

OWNER'S MANUAL FLEX EAGLE 15



AG-MEIER IND. LLC

**THIS MANUAL MUST BE READ AND UNDERSTOOD BEFORE ANYONE OPERATES THIS MACHINE!
PLEASE CONTACT YOUR DEALER FOR PARTS AND ADDITIONAL INFORMATION**

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INTRODUCTION

Thank you for purchasing a Mohawk Rotary Cutter. We hope you will get many years of productive use from it. This cutter is designed to be pulled by a ROPS protected tractor of proper size. This rotary cutter is designed to be used on pastures, fields, and road sides that are level to slightly sloping. All product users must read and understand this manual prior to equipment operation. This manual is considered part of your machine and should remain with the machine at all times. Do not allow anyone to operate or maintain this equipment that has not fully read and comprehended this manual. Failure to follow the recommended procedures may result in personal injury or death or equipment damage.

Information in this manual is designed to help owners and operators to obtain the best results and safe operation from their investment. The life of any machine depends largely on the care it is given and we suggest that the manual should be read and understood and referred to frequently. If for any reason you do not understand the instructions and safety requirements, please contact your authorized dealer. The intent of this manual is to provide guidelines to cover general use and to assist in avoiding accidents and injuries.

There may be times when circumstances occur that are not covered in the manual. At those times it is best to use common sense and contact your authorized dealer or our factory.

The requirements of safety cannot be emphasized enough in this publication. We urge you to make safety your top priority when using and maintaining the equipment. We strongly advise that anyone allowed to operate this equipment be thoroughly trained and tested, to prove they understand the fundamentals of safe operation.

Some photographs, diagrams or illustrations in this manual may show doors, guards and shields opened or removed to aid in clarity and understanding of a particular procedure. All guards, shields and safety devices must be in their proper position prior to operation.

ASSISTANCE

If you have questions not answered in this manual, or require additional copies, or the manual is damaged, please contact your dealer or:

AG-MEIER IND. L.L.C.
920 E. 6TH AVE.
BELTON, TX 76513

E-mail address
sales@agmeierindustries.com
Phone 800 446 7319



SAFETY

Read and understand this manual and all safety signs before operating and maintaining. Review the safety instructions and precautions annually.

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.



THIS SYMBOL MEANS

- ATTENTION!
- BECOME ALERT!
- YOUR SAFETY IS INVOLVED!



SAFETY SIGNAL WORDS

Note the use of the signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



GENERAL SAFETY GUIDELINES

Safety of the operator and any bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this equipment under the influence of drugs or alcohol. Do not use the equipment if alertness or coordination is impaired.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**

Do not read, eat, drink, talk or text or use a mobile phone while using this equipment.

To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**

Stay clear of any moving parts, such as shafts, couplings and universal joints.

If adjustments need to be made, make them in small steps, shutting down all motions for each adjustment.

Do not allow anyone to ride on any part of the equipment for any reason.

Assure that all bystanders are at a safe distance before operating or maintaining this equipment.



SAFETY SIGN LOCATIONS

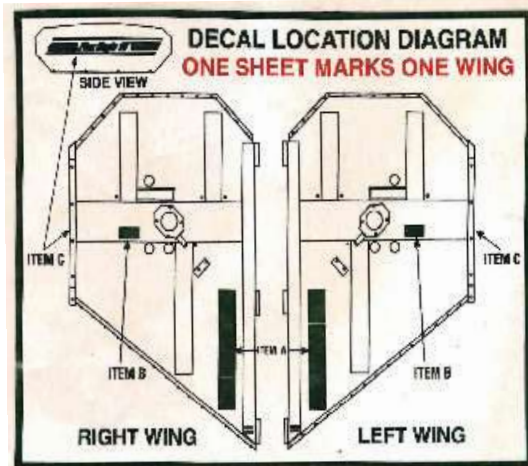
! WARNING

TO AVOID SERIOUS INJURY OR DEATH

- READ OPERATOR'S MANUAL BEFORE OPERATING AND FOLLOW ALL PRECAUTIONS. (CONTACT DEALER FOR MANUALS)
- KEEP SHIELDS AND GUARDS IN PLACE. KEEP CLEAR OF DRIVES AND BELTS.
- LOWER IMPLEMENT, STOP ENGINE, REMOVE KEY AND ALLOW ALL MOVING PARTS TO STOP BEFORE DISMOUNTING.
- SECURELY SUPPORT MOWER AND REMOVE KEY BEFORE WORKING UNDERNEATH.
- NO RIDERS. DO NOT OPERATE MOWER IN VICINITY OF OTHER PERSONS.
- KNOW HOW TO STOP TRACTOR AND EQUIPMENT QUICKLY IN AN EMERGENCY.
- CLEAR MOWING AREA OF DEBRIS.
- ALLOW NO CHILDREN OR UNQUALIFIED PERSONS TO OPERATE EQUIPMENT.
- BE CAREFUL ON UNEVEN TERRAIN. DECREASE SPEED WHEN TURNING.
- DO NOT OPERATE MOWER IN TRANSPORT POSITION.

! CAUTION

THIS IMPLEMENT IS DESIGNED TO OPERATE AT 540 RPM MAXIMUM TRACTOR PTO SPEED. ALL DRIVE LINE SHIELDS MUST BE KEPT IN PLACE.



AG-MEIER, INC.

FLEX EAGLE 15 WING SECTION

SHEET 2 OF 3
SHEET PN: AG-FL15-2

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Ag-Meier Ind.,LLC
Belton, TX

A52188



SAFETY SIGN LOCATIONS

WARNING

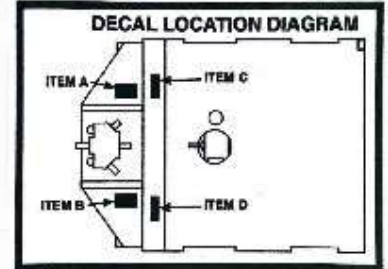
TO AVOID SERIOUS INJURY OR DEATH:

- DO NOT OPERATE WITH WINGS RAISED.
- LOCK WINGS UP FOR TRANSPORT.
- STAND CLEAR IF LOWERING OR RAISING WINGS.
- DECREASE SPEED WHEN TURNING, BE CAREFUL ON SLOPES OR UNEVEN TERRAIN WITH WINGS IN RAISED POSITION.
- BE ALERT TO OVERHEAD OBSTRUCTIONS AND ELECTRICAL WIRES WITH WINGS IN RAISED POSITION.

WARNING

TO AVOID SERIOUS INJURY OR DEATH

- READ OPERATOR'S MANUAL BEFORE OPERATING AND FOLLOW ALL PRECAUTIONS. (CONTACT DEALER FOR MANUALS)
- KEEP SHIELDS AND GUARDS IN PLACE. KEEP CLEAR OF DRIVES AND BELTS.
- LOWER IMPLEMENT, STOP ENGINE, REMOVE KEY AND ALLOW ALL MOVING PARTS TO STOP BEFORE DISMOUNTING.
- SECURELY SUPPORT MOWER AND REMOVE KEY BEFORE WORKING UNDERNEATH.
- NO RIDERS. DO NOT OPERATE MOWER IN VICINITY OF OTHER PERSONS.
- KNOW HOW TO STOP TRACTOR AND EQUIPMENT QUICKLY IN AN EMERGENCY.
- CLEAR MOWING AREA OF DEBRIS.
- ALLOW NO CHILDREN OR UNQUALIFIED PERSONS TO OPERATE EQUIPMENT.
- BE CAREFUL ON UNEVEN TERRAIN. DECREASE SPEED WHEN TURNING.
- DO NOT OPERATE MOWER IN TRANSPORT POSITION.



Ag-Meier Industries
LLC

**FLEX EAGLE 15
CENTER SECTION**

SHEET 1 OF 3
SHEET PN: AG-FL15-1



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WARNING

IMPLEMENT CAN FALL FROM HYDRAULIC SYSTEM FAILURE.

TO AVOID SERIOUS INJURY OR DEATH:

- BLOCK UP OR SECURELY SUPPORT IMPLEMENT BEFORE WORKING UNDERNEATH.
- PURGE ALL AIR FROM HYDRAULIC SYSTEM BEFORE ATTEMPTING TO RAISE OR LOWER THIS IMPLEMENT.
- STAND CLEAR IF LOWERING OR RAISING IMPLEMENT.
- DO NOT USE HAND OR SKIN TO CHECK FOR HYDRAULIC LEAKS. USE CARDBOARD OR WOOD.
- HIGH PRESSURE OIL LEAKS CAN PENETRATE SKIN CAUSING SERIOUS INJURY AND GANGRENE. CONSULT A PHYSICIAN IMMEDIATELY.
- LOWER THE IMPLEMENT AND RELEASE HYDRAULIC PRESSURE BEFORE LOOSENING FITTINGS.
- REFER TO OWNERS MANUAL FOR DETAILS.

WARNING

ROTARY CUTTERS MAY DISCHARGE OBJECTS AT HIGH SPEEDS, WHICH MAY RESULT IN SERIOUS INJURY TO BY-STANDERS OR PASSERS-BY.

- DO NOT OPERATE CUTTER IN VICINITY OF OTHER PERSONS.
- KEEP ENCLOSED SIDES, PERMANENT BANDS, BELTING, HIGHWAY CHAINS, OR OTHER FACTORY APPROVED DISCHARGE SHIELDS IN PLACE AND IN GOOD REPAIR.

CAUTION

THIS IMPLEMENT IS DESIGNED TO OPERATE AT 540 RPM MAXIMUM TRACTOR PTO SPEED. ALL DRIVE LINE SHIELDS MUST BE KEPT IN PLACE.

DANGER

KEEP AWAY – ROTARY BLADES

SERIOUS INJURY OR DEATH CAN RESULT FROM THROWN OBJECTS OR BLADE CONTACT. DO NOT STAND ON OR NEAR MACHINE WHEN IN OPERATION. DO NOT OPERATE WITH DEFLECTORS OR GUARDS REMOVED. ROPS (ROLLOVER PROTECTIVE SYSTEM) AND SEAT BELT EQUIPPED TRACTOR IS RECOMMENDED FOR OPERATOR USE IN ALL MOWING OPERATIONS.



SAFETY SIGN LOCATIONS

! DANGER

**KEEP AWAY
ROTATING BLADES**

**SERIOUS INJURY OR DEATH
CAN RESULT FROM THROWN
OBJECTS OR BLADE CONTACT.**

- DO NOT STAND ON OR NEAR MACHINE WHEN IN OPERATION.
- DO NOT OPERATE WITH DEFLECTORS OR GUARDS REMOVED.
- ROPS (ROLLOVER PROTECTIVE SYSTEM) AND SEAT BELT EQUIPPED TRACTOR IS RECOMMENDED FOR OPERATOR USE IN ALL MOWING OPERATIONS.

! WARNING

**IMPLEMENT CAN FALL FROM HYDRAULIC SYSTEM FAILURE.
TO AVOID SERIOUS INJURY OR DEATH:**

- BLOCK UP OR SECURELY SUPPORT IMPLEMENT BEFORE WORKING UNDERNEATH.
- PURGE ALL AIR FROM HYDRAULIC SYSTEM BEFORE ATTEMPTING TO RAISE OR LOWER THIS IMPLEMENT.
- STAND CLEAR IF LOWERING OR RAISING IMPLEMENT.
- DO NOT USE HAND OR SKIN TO CHECK FOR HYDRAULIC LEAKS. USE CARDBOARD OR WOOD.
- HIGH PRESSURE OIL LEAKS CAN PENETRATE SKIN CAUSING SERIOUS INJURY AND GANGRENE. CONSULT A PHYSICIAN IMMEDIATELY.
- LOWER THE IMPLEMENT AND RELEASE HYDRAULIC PRESSURE BEFORE LOOSENING FITTINGS.
- REFER TO OWNERS MANUAL FOR DETAILS.

! WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- LOCK WINGS UP FOR TRANSPORT
- INSTALL TRANSPORT LOCK PINS
- READ OPERATOR'S MANUAL FOR INSTRUCTIONS

! WARNING

ROTARY CUTTERS MAY DISCHARGE OBJECTS AT HIGH SPEEDS, WHICH MAY RESULT IN SERIOUS INJURY TO BY-STANDERS OR PASSERS-BY.

- DO NOT OPERATE CUTTER IN VICINITY OF OTHER PERSONS.
- KEEP ENCLOSED SIDES, PERMANENT BANDS, BELTING, HIGHWAY CHAINS, OR OTHER FACTORY APPROVED DISCHARGE SHIELDS IN PLACE AND IN GOOD REPAIR.

! WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- DO NOT OPERATE WITH WINGS RAISED.
- LOCK WINGS UP FOR TRANSPORT.
- STAND CLEAR IF LOWERING OR RAISING WINGS.
- DECREASE SPEED WHEN TURNING, BE CAREFUL ON SLOPES OR UNEVEN TERRAIN WITH WINGS IN RAISED POSITION.
- BE ALERT TO OVERHEAD OBSTRUCTIONS AND ELECTRICAL WIRES WITH WINGS IN RAISED POSITION.

IMPORTANT

SLIP CLUTCH MUST BE SLIPPED AND ADJUSTED PRIOR TO INITIAL USAGE AND EVERY 30 DAYS THEREAFTER. AFTER ANY IDLE PERIOD OF 30 DAYS OR MORE, READJUST CLUTCH BEFORE USE. WHEN SLIPPING CLUTCH, MAKE SURE THAT ALL PARTS SLIP INDEPENDENTLY OF EACH OTHER. SEE OPERATOR'S MANUAL FOR CORRECT SPRING LENGTH FOR CLUTCH.



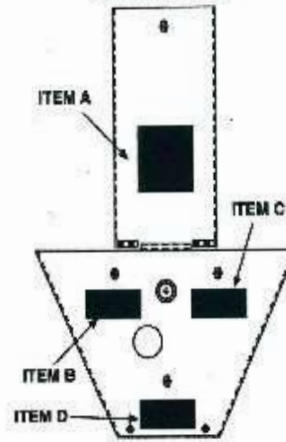
SAFETY SIGN LOCATIONS

IMPORTANT

SLIP CLUTCH **MUST** BE SLIPPED AND ADJUSTED PRIOR TO INITIAL USAGE AND **EVERY 30 DAYS** THEREAFTER. AFTER ANY IDLE PERIOD OF 30 DAYS OR MORE, READJUST CLUTCH BEFORE USE. WHEN SLIPPING CLUTCH, MAKE SURE THAT **ALL PARTS** SLIP INDEPENDENTLY OF EACH OTHER. SEE OPERATOR'S MANUAL FOR CORRECT SPRING LENGTH FOR CLUTCH.

MOHAWK

DECAL LOCATION DIAGRAM TOP OF SHIELD



CAUTION

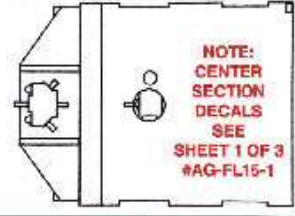
THIS IMPLEMENT IS DESIGNED TO OPERATE AT 540 RPM MAXIMUM TRACTOR PTO SPEED. ALL DRIVE LINE SHIELDS MUST BE KEPT IN PLACE.

IMPORTANT TRACTOR DRAWBAR ADJUSTMENT

Tractor drawbar must be adjusted to the dimensions shown before attaching to implement. Failure to do so can cause driveline and/or tractor damage.

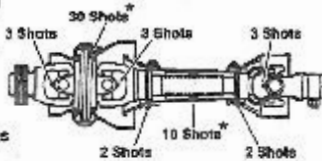


DECAL LOCATION DIAGRAM



IMPORTANT LUBRICATION REQUIREMENTS EVERY 8 HOURS

- LUBRICATE THE CENTRAL BODY WITH A MINIMUM OF 30 SHOTS OF GREASE EVERY 8 HOURS.
- LUBRICATE TELESCOPING MEMBERS WITH 10 SHOTS OF GREASE EVERY 8 HOURS. SEPARATE AND CLEAN TELESCOPING MEMBERS EVERY 40 HOURS AND COMPLETELY COAT WITH GREASE. VERIFY THAT MEMBERS TELESCOPE FREELY.



FAILURE TO FOLLOW THESE INSTRUCTIONS WILL CAUSE DRIVELINE FAILURE AND POSSIBLE TRACTOR DAMAGE.

Ag-Meier Industries LLC

FLEX EAGLE 15 SHIELD SUB-ASSEMBLY

SHEET 3 OF 3
SHEET PN: AG-FL15-3



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SAFETY DECAL CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current sign.
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

How to Install Safety Signs:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



LIGHTING AND MARKING

- It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.
- Lighting kits are available from your dealer or from the manufacturer.



BEFORE OPERATION

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Keep wheel lug nuts or bolts tightened to specified torque.
- Assure that agricultural implement tires are inflated evenly.
- Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
- Be sure that there are no tools lying on or in the equipment.
- Do not use the unit until you are sure that the area is clear, especially children and animals.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with a Roll Over Protective System (ROPS) and fasten your seat belt prior to starting the engine.
- The manufacturer does not recommend usage of tractor with ROPS removed.
- Move tractor wheels to the widest recommended settings to increase stability.
- Securely attach to towing unit. Use a high strength, appropriately-sized hitch pin with a mechanical retainer and attach safety chain.
- Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.



DURING OPERATION

- Children should never be allowed on the equipment.
- Clear the area of small children and bystanders before moving the equipment.
- Shift towing unit to a lower gear before going down steep downgrades, thus using the engine as a retarding force. Keep towing vehicle in gear at all times. Slow down for corners and rough terrain.
- Make sure you are in compliance with all local and state regulations regarding transporting equipment on public roads and highways. Lights and slow moving signs must be clean and visible by overtaking or oncoming traffic when equipment is transported.
- **SAFETY CHAIN** - If equipment is going to be transported on a public highway, a safety chain should be obtained and installed. Always follow state and local regulations regarding a safety chain and auxiliary lighting when towing farm equipment on a public highway. Be sure to check with local law enforcement agencies for your own particular regulations. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the towing and towed machines in the event of separation of the primary attaching system.
- Install the safety chain by crossing the chains under the tongue and secure to the draw bar cage or hitch or bumper frame.
- Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move the unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED** - Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.
- Keep hands and clothing clear of moving parts.
- Always keep all shields and guards in place and securely fastened.
- Do not clean, lubricate or adjust your equipment while it is moving.
- When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and **remove the ignition key**.
- Be especially observant of the operating area and terrain - watch for holes, rocks or other hidden hazards. Always inspect the area prior to operation.
 - **DO NOT** operate near the edge of drop-offs or banks.
 - **DO NOT** operate on steep slopes as overturn may result.
 - Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.



HIGHWAY AND TRANSPORT OPERATIONS

- Adopt safe driving practices:
 - Keep the brake pedals latched together at all times. **NEVER USE INDEPENDENT BRAKING WITH MACHINE IN TOW AS LOSS OF CONTROL AND/OR UPSET OF UNIT CAN RESULT.**
 - Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
 - Reduce speed prior to turns to avoid the risk of overturning.
 - Avoid sudden uphill turns on steep slopes.
 - Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
 - Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
- When driving the tractor and equipment on the road or highway under 20 mph at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight as which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.
- Pick the levellest possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Be extra careful when working on inclines.

- Maneuver the tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose fill, rocks and holes; they can be dangerous for equipment operation or movement.
- Allow for unit length when making turns.
- Operate the towing vehicle from the operator's seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.



FOLLOWING OPERATION

- Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and **remove the ignition keys**.
- Store the unit in an area away from human activity.
- Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
- Do not permit children to play on or around the stored unit.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.
- Wheel chocks may be needed to prevent unit from rolling.



PERFORMING MAINTENANCE

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble. Proper servicing and adjustments are key to the long life of any implement. With careful inspection and routine maintenance, costly downtime and repairs can be avoided.
- Some parts and assemblies can be quite heavy. Before attempting to unfasten any part or assembly, arrange to support it by means of a hoist, by blocking or by use of an adequate arrangement to keep it from falling, tipping, swinging or moving in any manner which may hurt somebody or damage the equipment.
- Always use lifting equipment that is adequately rated to do the job. Never lift equipment over people.
- Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- Before working on the equipment, stop the towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and **remove the ignition keys**.
- Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.
- **Always** use a safety support and block the wheels. Never use a jack to support the equipment.
- Always use the proper tools or equipment for the job at hand.
- Use extreme caution when making adjustments.
- Never replace hex bolts with less than grade five bolts unless otherwise specified.
- After servicing, be sure all tools, parts and service equipment are removed.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
- If repairs require the use of a torch or electric welder, be sure that all flammable and combustible materials are removed.
- Do not weld or cut on any tank containing oil, fuel or their fumes or other flammable material, or any container whose previous contents are unknown.
- Cleaning solvents should be used with care. Petroleum based solvents are flammable and present a fire hazard. Don't use gasoline. All solvents must be used with adequate ventilation and their vapors should not be inhaled.



HYDRAULIC FLUID AND EQUIPMENT SAFETY

Only adequately trained and qualified persons should work on hydraulics systems. You may be severely injured or killed by being crushed under a falling piece of equipment. Always have transport locks in place and frame sufficiently blocked when working on any implement.

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed may result in serious personal injury or death. Escaping hydraulic fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. Avoid the hazard by relieving the pressure before disconnecting lines or performing work on the system.

Make sure hydraulic fluid connections are tight 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, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

Always secure equipment with solid supports before working on or under it. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or hydraulic lines burst or pressure is lost while disconnecting lines. Either situation can drop machinery instantly even when power to hydraulics is off. Do not attempt to disconnect a hydraulic cylinder or hose while the system is under pressure!

Check hydraulic hoses and fittings frequently. Brush and other debris can damage hoses and fittings. Inspect and maintain equipment daily. Loose, broken, and missing hardware can cause equipment to not perform properly and can result in bodily injury or death.

Hydraulic systems and oil can be hot and cause burns. Before working on any system, wait until the oil has cooled.



LOCKOUT / TAGOUT

Think, plan and check. **Think** through the entire procedure and identify all the steps that are required. **Plan** what personnel will be involved, what needs to be shut down, what guards need to be removed, and how (and under what conditions) the power will be restarted. **Check** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads, Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious injury or death. Communicate with everyone involved in a repair or maintenance operation, including bystanders, that work is being done which involves keeping this machine safety at a ZERO ENERGY STATE.

OSHA's requirements for lockout/tag out are covered in Section 1910.147 of the OSHA standards. The LOTO standard establishes the employer's responsibility to protect workers from hazardous energy. Employers are required to train each worker to ensure that they know, understand, and are able to follow the applicable provisions of the hazardous energy control procedures:

- Proper lockout/tag out (LOTO) practices and procedures safeguard workers from the release of hazardous energy. The OSHA standard for The Control of Hazardous Energy (Lockout/Tag out) for general industry, outlines specific action and procedures for addressing and controlling hazardous energy during servicing and maintenance of machines and equipment. Employers are also required to train each worker to ensure that they know, understand, and are able to follow the applicable provisions of the hazardous energy control procedures. Workers must be trained in the purpose and function of the energy control program and have the knowledge and skills required for the safe application, usage and removal of the energy control devices.
- All employees who work in the area where the energy control procedure(s) are utilized need to be instructed in the purpose and use of the energy control procedure(s) and about the prohibition against attempting to restart or reenergize machines or equipment that is locked or tagged out.
- All employees who are authorized to lockout machines or equipment and perform the service and maintenance operations need to be trained in recognition of applicable hazardous energy sources in the workplace, the type and magnitude of energy found in the workplace, and the means and methods of isolating and/or controlling the energy.
- Specific procedures and limitations relating to tagout systems where they are allowed.
- Retraining of all employees to maintain proficiency or introduce new or changed control methods.

OSHA outlines a six-step procedure for controlling hazardous energy:

- **Step 1: Prepare for shutdown.** It must be determined what type of power system is going to be deactivated including electrical, hydraulic, pneumatic or other energy sources. Knowledge of shut down methods is necessary.
- **Step 2: Shutdown the equipment.** This should be completed consistent with the manufacturer's instructions for the shutdown procedure and could be as simple as placing a switch in the "off" position or pressing a button.
- **Step 3: Isolate the equipment.** This step involves closing of valves, throwing the main disconnects or circuit breakers and disconnecting or capping any auxiliary power sources or secondary electrical systems.
- **Step 4: Apply the lockout/tag out device.** This is done to prevent restoration of the flow of energy and is done at all disconnect switches, valves or other energy isolating devices. Locks are the preferred method of controlling energy and should be supplemented with tags. Various lockout devices are available including group lockout hasps. Locks should be individually assigned and have only one key.
- **Step 5: Control the stored energy.** This step includes the release, disconnect or restraint of any residual hazardous energy which may be present and a check that all moving parts have stopped moving. It may also include the installation of "pancakes" or blanking of pipe flanges,

the installation of ground wires to discharge electrical capacitors and the blocking or supporting of elevated equipment.

- **Step 6: Verify isolation of equipment.** Double-check the steps and verify that the equipment indeed has been shut down and that the lock and tag do control the stored energy. Employees should be warned and the system tested, including pressing of all start buttons to assure that the equipment will not start.

Rotary Cutter Safe Practices Messages from the American Society of Agricultural and Biological Engineers

The following safe practices are recognized as being effective for enhancing safety, if followed, but may not be adequate, complete, or entirely applicable for every situation. They may not cover all possible hazardous situations; hence, they should be interpreted judiciously.

- Personal protective equipment such as, but not limited to, gloves, safety glasses, hard hat, and safety shoes should be worn when hazards to personal safety exist when operating mowers.
- Lower mower, disengage PTO, stop engine, remove key, de-energize hydraulics, set brake, and wait for all moving parts to stop before dismounting to park or service equipment.
- Securely support or block up before working underneath any lifted mower or component to avoid injury or death from inadvertent dropping due to hydraulic leak down, mechanical or hydraulic system failure, or inadvertent operation of controls.
- The tractor must be equipped with a roll-over protective structure (ROPS) except where the use of ROPS would create an additional hazard. The operator must fasten seat belt snugly prior to starting engine on tractors having ROPS in place. Avoid accidental fall-off or possible injury or death from tractor or equipment run-over by using seat belt during mowing operations.
- Operate the mower from the operator's seat only.
- Do not allow riders on the mower.
- Do not allow rider on the tractor unless there is a seat belt-equipped position that is ROPS-protected for each rider.
- Visually check for hydraulic leaks and broken, missing, or malfunctioning parts, and make necessary repairs. Do not use your hand to check for leaks: use cardboard or similar material. Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin and cause a serious personal injury or death. The injected fluid may result in gangrene if the fluid is not surgically removed immediately by a doctor familiar with this form of injury.
- Before disconnecting hydraulic lines, release all hydraulic pressure.
- Keep implement input driveline, implement input connection, and tractor PTO shield in place and in good condition when operating. Be sure the driveline is securely locked onto the PTO.
- Do not open access doors or remove guards until rotating components have stopped.
- Mowers that are provided with intake and/or discharge shield that may be subject to routine wear or deterioration must be inspected regularly and maintained as instructed by the manufacturer in the operator's manual.
- Make certain the slow moving vehicle (SMV) sign and other reflectors are clearly visible. Follow local traffic codes for slow moving vehicles when transporting on public roads.
- Attach safety chain between towed mower and propelling machine as shown in operator's manual before towing on public roads.

OPERATION

TRACTOR PREPERATION BALLAST (FRONT END WEIGHT)

Add enough weight to assure at least 20% of the tractors original weight is on the front wheels for safe transport.

WHEEL TREAD

Tractor wheel tread spacing should be increased when working on incline or rough ground to reduce the possibility of tipping.

STABLIZER BARS OR SWAY BLOCKS

Use stabilizer bars or sway blocks to prevent side sway of the cutter.

DRAFT LINKS

The linkage to the lower draft links should be set in the “Float Position” allowing the unit to follow the contour of the terrain.

DRAWBAR

Shorten or remove drawbar so it will not interfere with the up and down movement of the cutter.

MOUNTING THE CUTTER TO THE TRACTOR

DANGER A crushing hazard exists when hooking-up equipment to a tractor. Do not allow anyone to stand between tractor and implement while backing-up to implement. Do not operate hydraulic 3-point lift controls while someone is directly behind tractor near implement.



To mount the cutter, be sure it is sitting on as level ground as possible and follow the steps outlined in the manual for attaching a three-point hitch implement.

1. Slowly back up to the rotary cutter while using tractor's 3-point hydraulic control to align lower 3-point arm holes with the hitch pins.
2. Engage tractor park break, shut tractor engine off, and remove key before dismounting from the tractor.
3. Attach the cutter hitch pins to the lower three-point lift arms of the tractor.
4. Connect the tractor top link to the hole in the top of the A-Frame link or the cutter using the pin supplied. With the rotary cutter attached to the tractor's three-point hitch, proceed to connection of the PTO as follows.
5. Slide the yoke with the quick disconnect pin onto the tractor PTO shaft. Move the yoke back and forth to insure it is locked onto the shaft.
6. Attach the safety chain to the stationary point to prevent the shield from spinning.
7. Return to the tractor and slowly raise and lower the cutter to ensure that the drawbar, tires, and other equipment on the tractor do not make contact with the cutter frame and driveline. Move or remove drawbar if needed.
8. Adjust the lower lift arms on the tractor to level the cutter from left to right.
9. Adjust the length of the top-link to level the cutter from front to rear.

OPERATION

IMPORTANT: CHECK DRIVELINE LENGTH

A driveline that is too long can bottom out causing damage to the tractor and cutter. Always check the driveline collapsed length during initial setup, when connecting to a different tractor, and when alternating between using a quick hitch and a standard 3-point hitch.

Telescoping tubes must always overlap by at least 1/2 of their length in normal operations and at least 1/3 of their length in all working conditions.

TRANSPORTING

Pay particularly close attention to the SAFETY MESSAGES regarding cutter transport. Avoid unnecessary injuries and equipment damage by exercising cautious and conscientious travel procedures.

Attaching the cutter to the tractor increases the overall length of the working unit. Allow additional clearance for the cutter to swing when turning.

Raise the cutter as high as possible for transporting while maintaining clearance between the driveline and the deck of the cutter.

Tire pressure should be kept at around 20 PSI to decrease shock during transport. When using puncture-proof, laminated tires, be sure that the flat side of the lug nut is against the wheel.

WARNING



When transporting the cutter on a road or highway, use tractor warning lights, SMV sign, reflectors and other safety devices for adequate warning to the operators of other vehicles. Check the traffic regulations governing locale where mowing is to be done and work safely within those guidelines

Be sure that the tractor lift lever is locked into the "transport" detent before attempting to Transport the cutter. Make sure that at least 20% of the tractor weight is on the front tires.

WARNING



Hold transport speed to 15 mph, especially when using puncture-proof, laminated tires. These tires are designed for off road use only. They can be used on road surfaces at very low speeds for a short distance. Heat from pavement friction can build up causing the tire to ignite. The steel band holding the sections in place could break, causing extensive damage to the cutter and tractor as well as possible injury to the operator and passerby. When transporting up slopes with reduced front end weight the tailwheel should be lowered as far as possible to provide a stop if the tractor rears up.

CUTTING HEIGHT ADJUSTMENT

WARNING



Avoid personal injury. Be sure the tractor engine is off and the key is removed before making and adjustments.

IMPORTANT: Avoid very low cutting heights. Striking the ground with the blades gives the most damaging shock loads a cutter can encounter and will cause damage to the cutter and driveline.

OPERATION

To achieve maximum cutting efficiency and provide the most uniform cut, the cutter should be operated with the rear slightly higher (1/2"-3/4") than the front.

1. Place the tractor and cutter on level surface
2. Raise the cutter to the approximate desired cutting height with the tractor hydraulic lift control lever.
3. Remove the gauge wheel adjusting bolt from the rear adjusting brackets. Adjust the gauge wheel leg to the desired cutting height and reinstall the b
4. Lower slowly until the cutter is 1/2"-3/4" higher at the rear than the front. Position the adjustable stop on the tractor lift quadrant against the lift control lever so that the cutter can be returned to the same cutting height.

IMPORTANT: When raising the cutter to transport height, be sure there is clearance between the front of the deck and driveline. Damage will result if the driveline hits the cutter deck.

STARTING AND STOPPING THE CUTTER

Power for operating the cutter is supplied from the tractor PTO. Refer to the tractor manual for instructions on engaging and disengaging the PTO. Always engage the PTO at low engine RPM. Always operate at 540 RPM. Learn how to stop the tractor and cutter quickly in case of an emergency.

IMPORTANT: Stop the cutter and the tractor immediately upon striking an obstruction. Inspect the cutter and repair before resuming operation.

WARNING



Avoid personal injury. When attempting to stop a tractor which does not have live PTO, the momentum created by the cutter can cause the tractor to be pushed forward.

The installation of an overrunning clutch is recommended if the operating tractor does not have live power take off. See your dealer for additional information.

To start operation, reduce engine speed and engage the tractor PTO. Before starting to cut, gradually increase engine speed to develop 540 RPM at the PTO.

DANGER



Install chain guards if operating with people or livestock in the area or close to highways or buildings.

Enter the area to be cut with the cutter operating at 540 RPM and, if it becomes necessary to temporarily regulate engine speed during operations, increase or decrease throttle gradually -**never exceed 540 RPM.**

To transport, disengage the PTO and raise the machine to full transport height.

OPERATION

CUTTING SPEED

Proper ground speed for the cutter will depend upon the height, type and density of the material to be cut. Normally, ground speed will range from 2 to 5 mph. Tall dense material should be cut at low speed, while medium height material can be cut at a faster ground speed.

CUTTING TIPS

Always operate PTO at 540 RPM when cutting. This is necessary to maintain proper blade speed to produce clean cut. Under certain conditions, the tractor tires may roll some of the grass down and prevent it from being cut at the same height as the surrounding area. When this occurs, reduce the tractor ground speed, but maintain 540 PTO RPM. The lower speed will permit the grass to partially rebound and be cut. Taking a partial cut or reversing the direction of travel may also produce a cleaner cut.

WARNING



Avoid personal injury. Pick up all rocks and other debris before cutting. Enter new areas carefully. Drive slowly and cut material higher the first time to allow the cutter to clear unseen objects. Never assume an area is clear. Always check for hidden hazards.

Extremely tall grass should be cut twice. Raise the cutter and cut twice the desired height. Cut the second time at the desired height at 90 degrees to the first pass.

Remember, sharp blades produce cleaner cuts and use less power. Before cutting, study the area to determine the best cutting procedures. Consider the height and type of material and the terrain type: hilly, level, or rough.

Avoid tractor rollovers: Be careful when operation the tractor and cutter on uneven ground. Equip your tractor with a roll bar (ROPS) and seat belts. Keep seat belts tightened securely.

In uneven terrain, rear wheel weights, front tractor weight and/or front tire ballast should improve stability. Pass diagonally through sharp dips and avoid drops to prevent "hanging up" the tractor and cutter.

Avoid sudden stops and starts while traveling up or down hills.

When cutting on slopes, always operate the cutter in a downward motion and do not travel across the face of a slope. Avoid operation on steep slopes. Slow down on sharp turns to prevent tipping or loss of control.

MAINTANCE AND LUBRICATION

Proper servicing and adjustments are the key to the long life of any machine. With careful and systematic inspection of the Rotary Cutter, you can avoid costly maintenance, time and repair.



WARNING: For safety reasons, each maintenance operation must be performed with the PTO shaft disengaged, cutter lowered completely to the ground or on safety supported blocking, the tractor engine shutoff and the ignition key removed.

MAINTENANCE

LUBRICATE DAILY:

1. PTO U-Joints & Profiles
2. Tailwheel spindle tube
3. Tailwheel hub

GEARBOX

Lubricate every 50 hours of operation. On the cutter, the flange mounted gearbox oil reserve is 65 ounces. If the oil reserve is below normal level, check for a crack in the gearbox or leaking seal. The oil must be checked after every 10 hours of operation. If oil flows out of the 1/8" oil level plug the proper lubrication level is being maintained. If oil does not flow out of the plug, add oil until it does. Recommended lubricant is SAE80w-90EP oil. Check the oil in the gearbox when the cutter is level. **DO NOT** over fill the gearboxes. This will cause pressure to build up and cause oil seals to leak.

UNIVERSAL JOINTS

Grease fittings are located on the cross of each U-Joint, Grease after each 10 hours of use.

DRIVELINE

The telescoping PTO shaft inside the shielding must be lubricated daily. Disconnect the driveline from the tractor and pull the halves apart. Insert grease into the cavity on the half attached to the gearbox and spread evenly. Install the driveline halves together. Reconnect the driveline to the tractor. Raise and lower the cutter after applying grease to spread over working joint area.



WARNING: When attaching the PTO yoke to the tractor PTO shaft, it is important that the spring activated locking pin is seated in the groove on the PTO shaft. A loose shaft could slip off and result in personal injury or damage to the cutter.

SLIP CLUTCH (OPTIONAL)

If a slip clutch is incorporated in the driveline, it is designed to slip, absorb the shock load, and protect the driveline and cutter.

As with any torque limiter, damage can still occur to the blades or drive train before they slip; therefore, it is still the operator's responsibility to ensure that the area is clear of any obstructions that could damage the machine.

MACHINES SO DAMAGED ARE NOT COVERED BY WARRANTY.

Prior to the initial start-up operation and after periods of inactivity, the slip clutches should be "RUN-IN" before the cutter is used again. This can be accomplished by using the following procedure:

1. Carefully loosen each of the 8 spring retaining nuts by 2 revolutions.
2. Start the tractor and engage the PTO for 2-3 seconds two times to permit slippage. Disengage the PTO, shut off the tractor, and remove the key.
3. Inspect the clutch and ensure the clutch plates have slipped. A clutch that has not slipped must be disassembled to separate the friction disc plates.
4. Tighten each of the 8 spring retainer nuts 2 revolutions to restore the clutch to the original setting pressure.

The manufacturer's recommended setting for this clutch is a compressed spring length of 1.14". By performing this procedure, the operator makes sure that the clutches are performing correctly and are set properly.

MAINTENANCE

SERVICING CUTTING BLADES

WARNING



Use only **AG-MEIER INDUSTRIES LLC** blades. They are made specifically for this cutter. Substitute blades may not meet specifications and could be dangerous. For servicing of the blades, the manufacturer has provided an access hole in the cutter deck.

All blades must be replaced or reground at the same time to maintain proper balance in the cutting unit. Keep all blade bolts tight and, for better cutting, keep all blades sharp. Inspect the blades before each use to determine that they are properly installed and in good condition. Replace any blade that is bent, excessively nicked, worn or has any other damage. Small nicks can be ground out when sharpening.

BLADE CARRIER

Always disconnect the driveline from the tractor and block the cutter securely before working on the blades or blade carrier.

Inspect the blade carrier frequently. After operation, check the blade carrier hub for tightness on the gearbox output splined shaft. Keep all blade bolts tightened to 600 ft. lbs. and, for better cutting, keep all blades sharp. Always use **AG-MEIER INDUSTRIES LLC** blades. When replacing blades, check the cutting edges in relation to the blade carrier rotation. For removing the blade carrier hub from the gearbox, use a drift punch through the access hole or gear puller. DO NOT hammer on the end of the gearbox output shaft, as this may cause damage to the bearings.

TO REPLACE BLADES

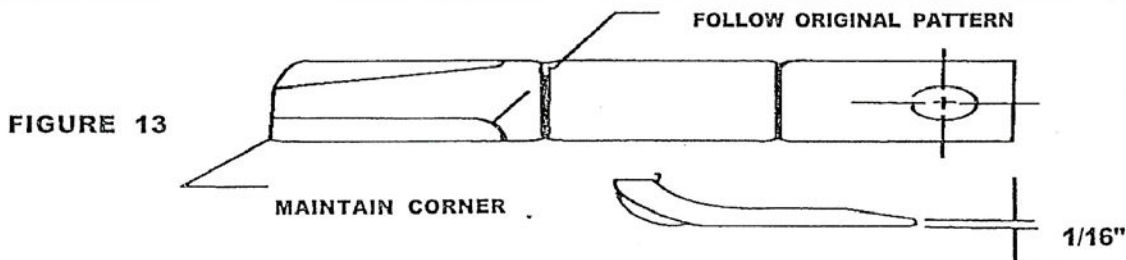
1. Replace all blades at the same time to maintain proper balance in the cutting unit.
2. Order **AG-MEIER INDUSTRIES LLC** blades and blade bolt kit.
3. Torque blade bolt lock nut to 600 ft. pounds. An extended cheater bar may be required to achieve proper torque.

BLADE SHARPENING

1. Sharpen all blades at the same time to maintain balance. The difference in blade weight should not exceed 1 ounce. Unbalanced blades will cause excessive vibration which can damage gearbox bearings. Vibration may cause structural cracks in the cutter housing.
2. Examine bolts for excessive wear and replace if necessary.
3. Follow the original pattern of the blade.
4. Sharpen the blades by grinding. Do not heat and pound out the edge. Do not sharpen to a razor edge, but leave a 1/16" blunt edge. Do not sharpen the back side of the blade. See Figure 13.

NOTE: Care should be taken in order not to remove any more material than necessary when sharpening the blades.

All blades should be sharpened at the same angle as the original cutting edge.



MAINTENANCE

STORAGE

Your rotary cutter represents an investment from which you should get the greatest possible benefit. Therefore, when the season is over, the cutter should be thoroughly checked and prepared for storage so that a minimum amount of work will be required to put it back into operation for the next season. The following are the suggested storage procedures.

1. Thoroughly clean the cutter
2. Lubricate the cutter as covered in the Maintenance Section.
3. Tighten all bolts to recommended torque.
4. Check the cutter for worn or damaged parts. Make replacements immediately using Genuine **AG-MEIER IND. L.L.C.**
5. Store the cutter in a clean, dry place with the cutter housing resting on blocks.
6. Use spray touch-up enamel where necessary to prevent rust and maintain appearance of the cutter.

TROUBLE SHOOTING GUIDE

<u>TROUBLE</u>	<u>POSSIBLE CAUSE</u>	<u>POSSIBLE REMEDY</u>
Excessive Vibration	1. Check gearbox bolts	Tighten if loose
	2. Check for loose nuts on blade Holder and blades	Tighten if loose
	3. Check for bent output shaft. If Shaft is bent, oil will normally leak from bottom of seal	Replace shaft if bent
	4. Check to see if blades are free swinging	Free blades so they swing
	5. Check for even wear on each blade tip. Were all blades changed at the same time.	Weigh blades. Weight should be within 1oz. Always replace both blades
	6. Blade broken	Replace blades, in sets
	7. Blade carrier bent	Replace blade carrier
GEAROX OVERHEATING	1. Low on lubricant	Fill to level plug
	2. Improper type of lubricant	Replace with proper lubricant
	3. Excessive trash build up around gearbox	Remove trash
	4. Bearing or gears set up improperly	Consult your dealer
NOT CUTTING CLEAN	1. Blades dull	Sharpen or replace blades
	2. Carrier RPM to low	Use correct PTO speed and Check for correct gearbox ratio
	3. Cutter not level	See cutting height adjustment
	4. Tractor tires mashing down on grass	Reverse direction of cutting and drive with one tractor tire out of cutter overlap area. Conditions to wet to cut.
	5. Ground speed to fast	Reduce ground speed by Shifting to lower gear
	6. Blades locked back	Free blades
	7. Blades riding up due to wear or loose bolts	Replace blade bolts

TROUBLE SHOOTING GUIDE

<u>TROUBLE</u>	<u>POSSIBLE CAUSE</u>	<u>POSSIBLE REMEDY</u>
STREAKING CONDITIONS	1. Conditions to wet for cutting. Blades unable to cut that part of grass pressed Down by path or tractor tires	Allow grass to dry before cutting. Slow ground speed of tractor but keep engine at full PTO RPM. Cutting lower may help.
	2. Dull blades	Sharpen or replace blades
	3. Height of cutter lower at front or rear	See cutting height instructions
BLADE BOLTS LOOSE	1. Bolts not tightened	Tighten bolts to 600 ft. lbs.
	2. Bolt hole elongated or oversized	Replace blade carrier
	3. Lock nut worn out	Replace lock nut
GEARBOX NOISY	1. Rough gears	Run in or change gears
	2. Worn bearings	Replace bearings
GEARBOX LEAKING	1. Damaged oil seal	Replace seal
	2. Bent shaft	Replace oil seal & shaft
	3. Oil seal installed wrong	Replace seal
	4. Oil level to high	Drain oil to proper level
	5. Pin hole leak in gearbox housing	Replace housing or gearbox
	6. Gasket damaged	Replace gasket
	7. Bolts loose	Tighten bolts
SHEAR PIN SHEARS EXCESSIVELY	1. Tractor PTO not being run at 540 RPM	Run at 540 RPM
	2. Heavy Material	Reduce ground speed. raise cutting height
	3. Not using proper pin	Replace, only with recommended pin
CLUTCH SLIPS EXCESSIVELY	1. Not operating at 540 RPM	Run at 540 RPM

TROUBLE SHOOTING GUIDE

TROUBLE
CLUTCH SLIPS
EXCESSIVELY
(CONT.)

POSSIBLE CAUSE
2. Too much load on clutch

3. Oil on facing
4. Clutch linings worn or plates warped

POSSIBLE REMEDY
Reduce ground speed &
material intake

Replace facings

Repair clutch per maintenance
section

**BLADE WEAR
TO FAST**

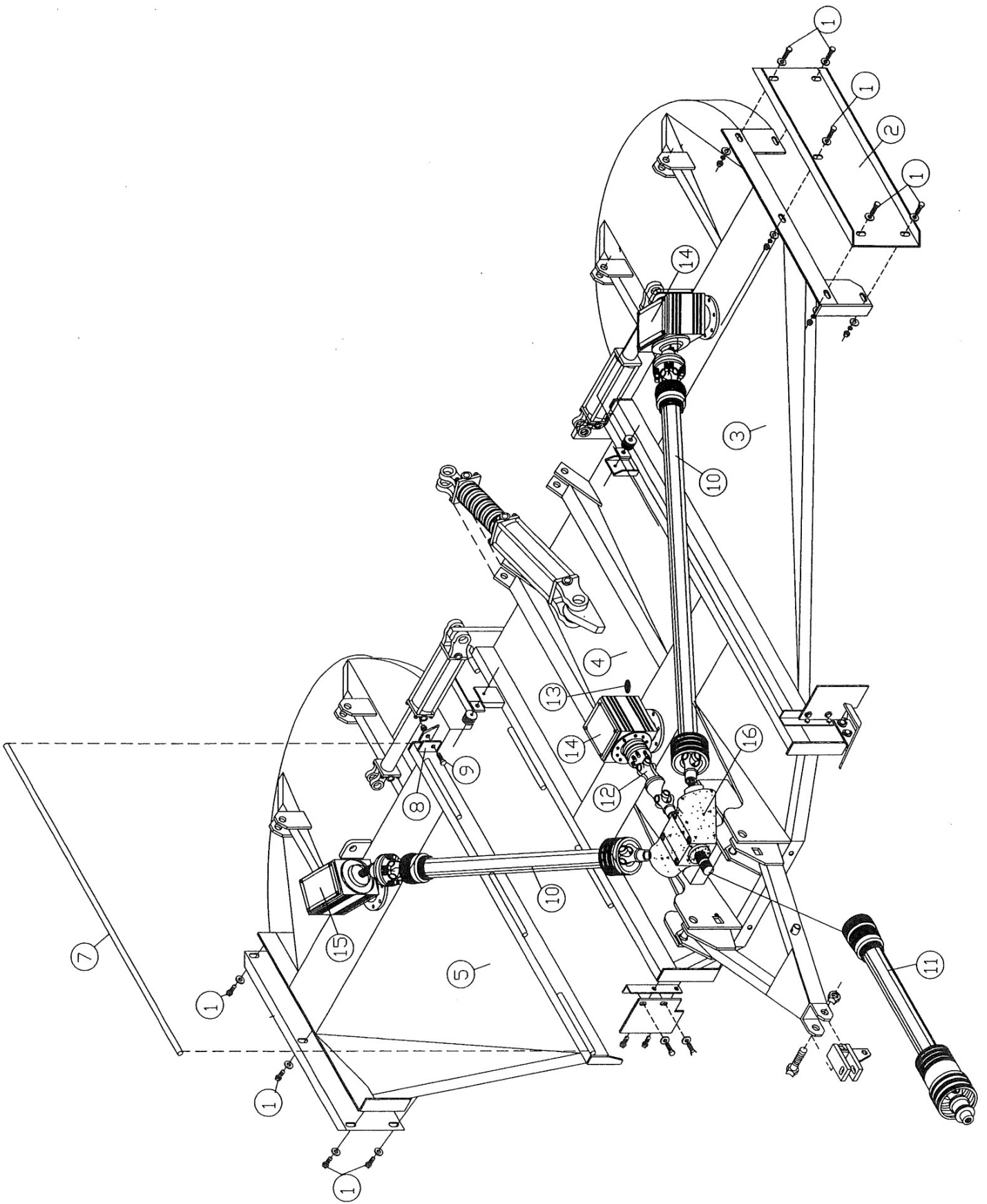
1. Cutting in sandy conditions
2. Cutting in rocky conditions

Increase cutting height. keep
blade at least 1" above the
Ground

Increase cutting height

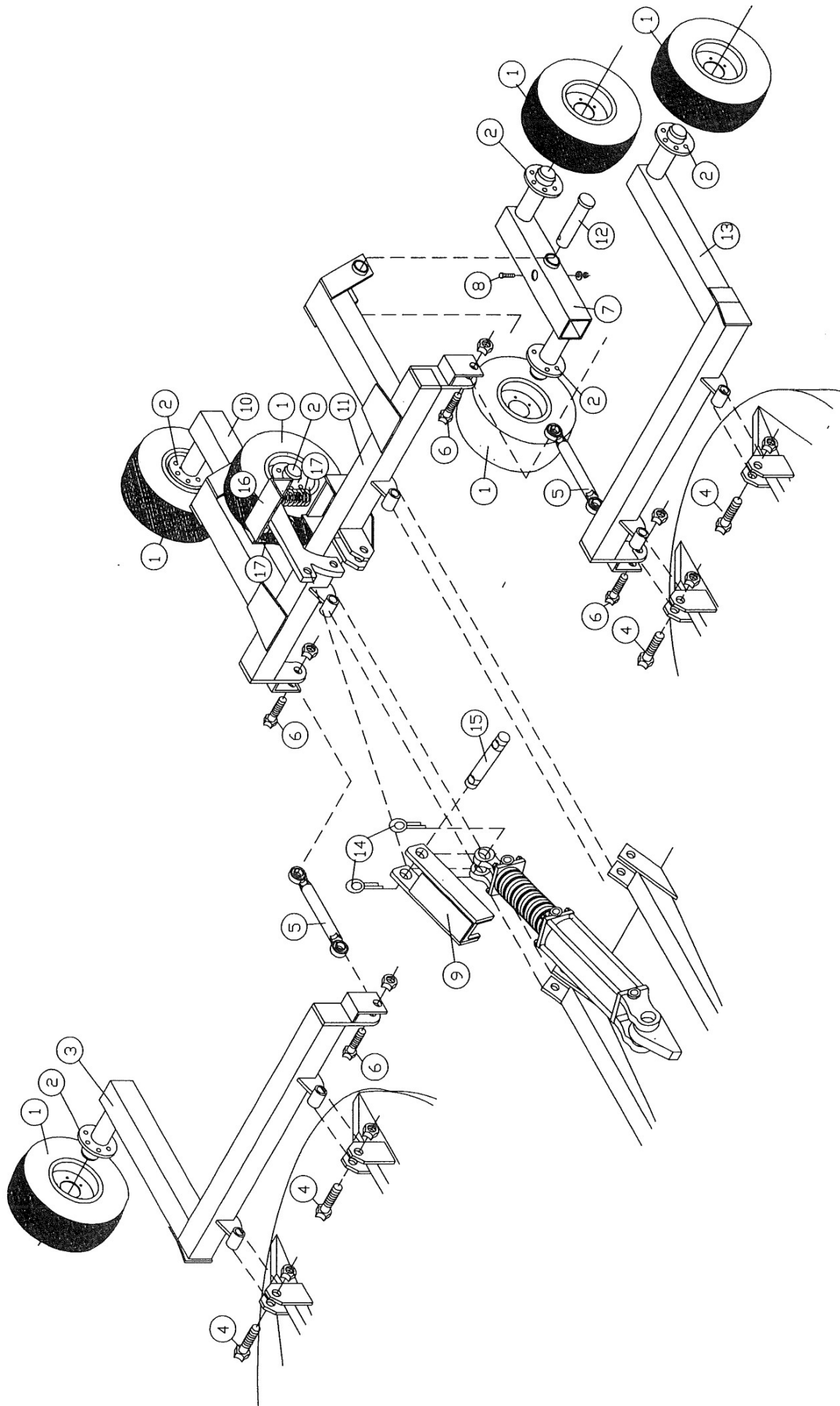
DRIVE TRAIN

REF.	PART NO.	DESCRIPTION	QTY
1.	30068	HEX BOLT 1/2 X 1 1/4	10
	30022	LOCK NUT 1/2	10
	30138	FLAT WASHER	10
2.	30900469	SIDE SKIRT, WING	2
3.	30900509	WING DECK, LEFT	1
4.	30900508	CENTER DECK	1
5.	30900510	WING DECK, RIGHT	1
7.	30900471	HINGE PIN	2
8.	30900473	PIN STOP	2
9.	30068	HEX BOLT 1/2 X 1 1/4	2
10.	50100573	PTO, WING	2
11.	50100512	PTO, 540 RPM	1
12.	50100575	PTO, CENTER	1
13.	32387	PLUG	3
14.	50200216	CENTER, LEFT GEARBOX, 540 RPM	2
	50200218	CENTER, LEFT GEARBOX, 1000 RPM	2
15.	50200217	RIGHT WING GEARBOX, 540 RPM	1
	50200219	RIGHT WING GEARBOX, 1000 RPM	1
16.	50200211	DIVIDER GEARBOX	1
	435000302R	REPAIR KIT FOR FLEX EAGLE DRIVELINE	



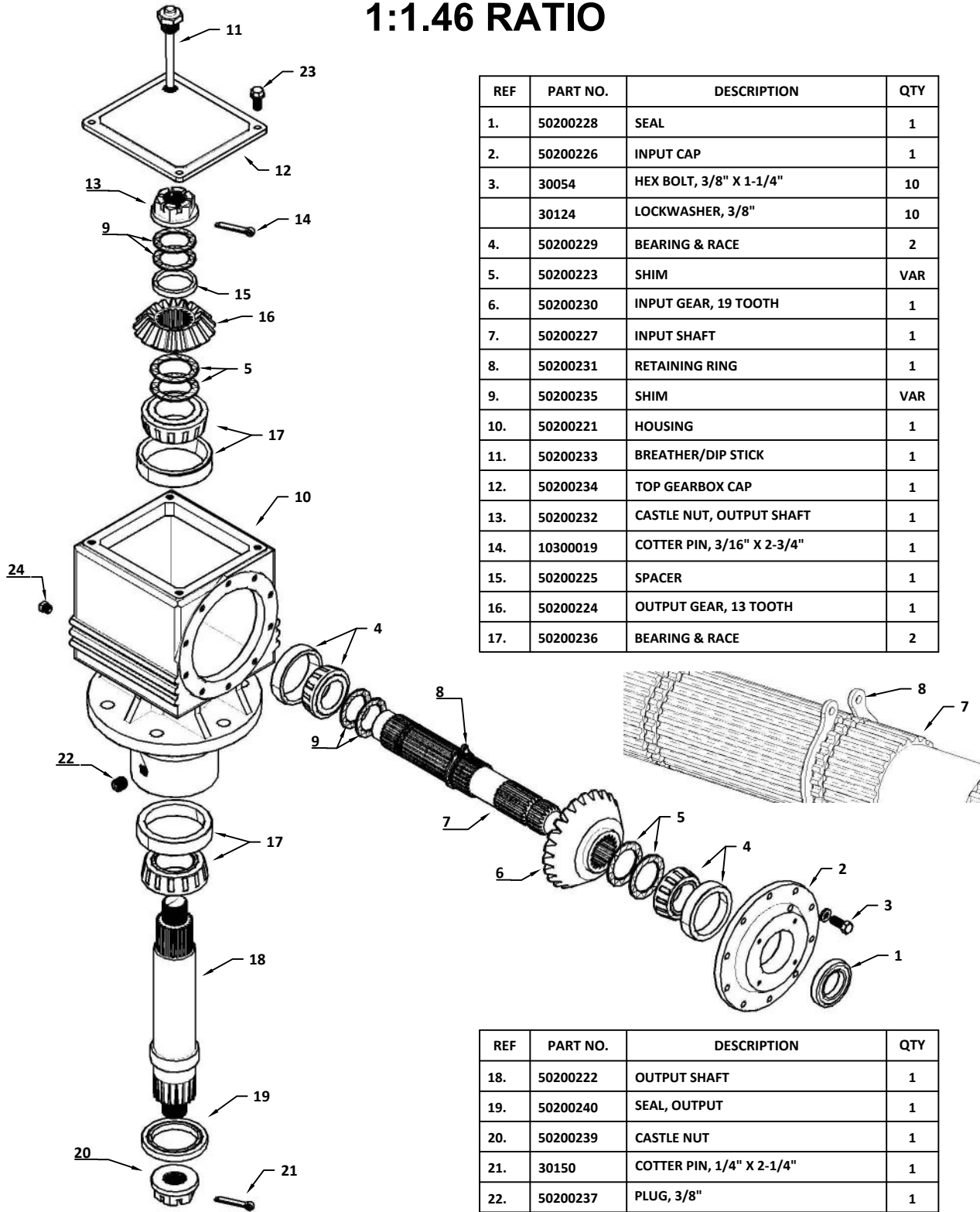
AXLE

REF.	PART NO.	DESCRIPTION	QTY.
1.	32741	LAMINATED WHEEL	6
2.	51100030	HUB, 5 BOLT	6
3.	30900457	RIGHT WING AXLE	1
4.	10100814	HEX BOLT 1-1/8 X 5-1/2, WING	4
	10100816	HEX BOLT 1-1/8 X 7, CENTER	2
	10200068	LOCK NUT 1-1/8	6
5.	30900459	AXLE LINKAGE ASSEMBLY	2
6.	10100725	HEX BOLT 1 X 4	4
	10200301	LOCKING JAM NUT 1"	4
7.	30900461	WALKING BEAM LEFT	1
8.	10100380	HEX BOLT 1/2 X 3 GRADE 8	2
	30022	LOCK NUT 1/2	2
9.	30900388	TRANSPORT LOCK	1
10.	30900460	WALKING BEAM RIGHT	1
11.	30900456	CENTER AXLE	1
12.	30900462	WALKING BEAM PIN	2
13.	30900458	LEFT WING AXLE	1
14.	20913	PIN	1
15.	33558	PIN 1"	1
16.	30900470	SPRING ARM	1
17.	52000007	SPRING	2



GEAR BOX INFORMATION

50200216 GEARBOX 1:1.46 RATIO

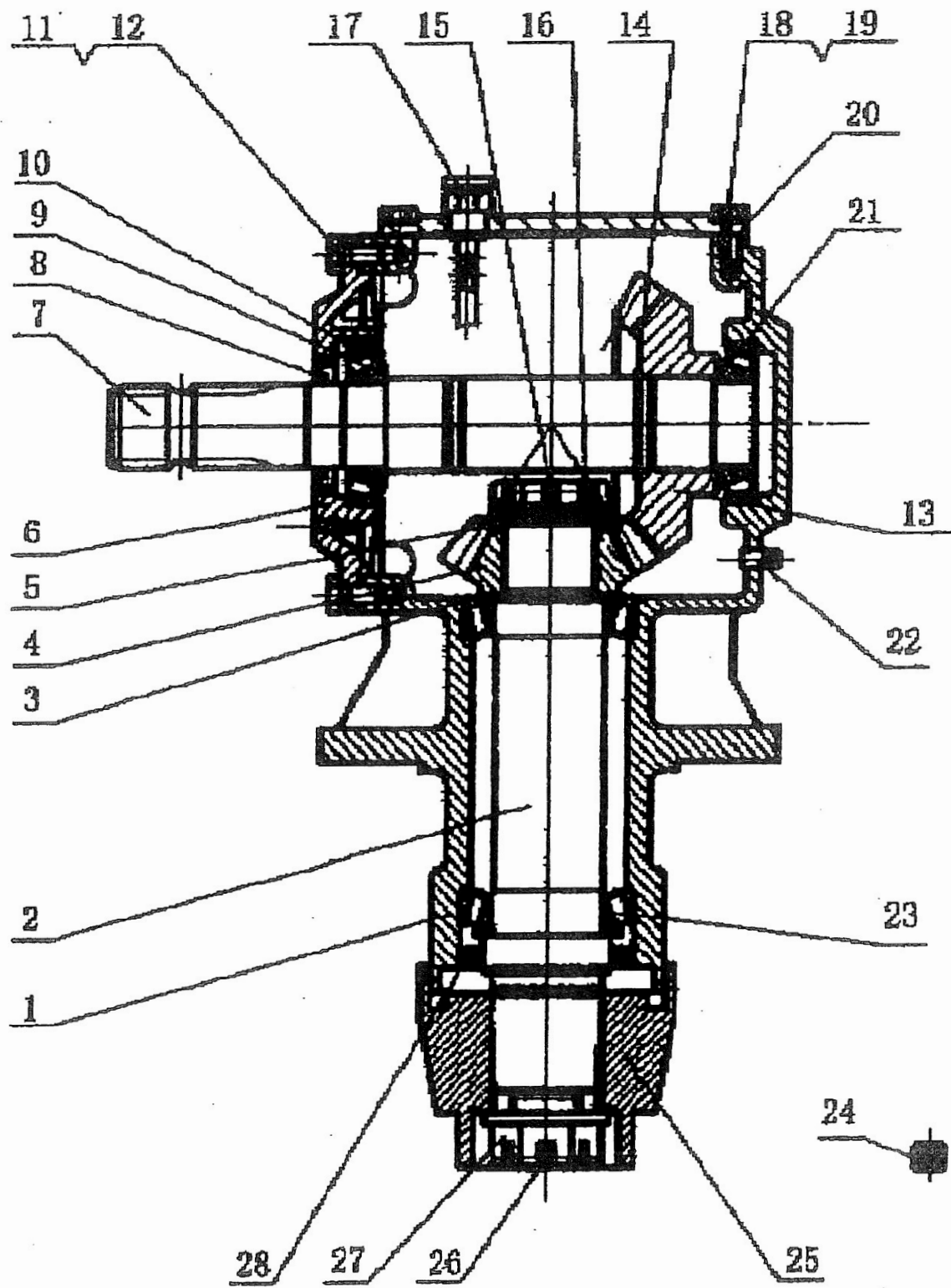


REF	PART NO.	DESCRIPTION	QTY
1.	50200228	SEAL	1
2.	50200226	INPUT CAP	1
3.	30054	HEX BOLT, 3/8" X 1-1/4"	10
	30124	LOCKWASHER, 3/8"	10
4.	50200229	BEARING & RACE	2
5.	50200223	SHIM	VAR
6.	50200230	INPUT GEAR, 19 TOOTH	1
7.	50200227	INPUT SHAFT	1
8.	50200231	RETAINING RING	1
9.	50200235	SHIM	VAR
10.	50200221	HOUSING	1
11.	50200233	BREATHER/DIP STICK	1
12.	50200234	TOP GEARBOX CAP	1
13.	50200232	CASTLE NUT, OUTPUT SHAFT	1
14.	10300019	COTTER PIN, 3/16" X 2-3/4"	1
15.	50200225	SPACER	1
16.	50200224	OUTPUT GEAR, 13 TOOTH	1
17.	50200236	BEARING & RACE	2

REF	PART NO.	DESCRIPTION	QTY
18.	50200222	OUTPUT SHAFT	1
19.	50200240	SEAL, OUTPUT	1
20.	50200239	CASTLE NUT	1
21.	30150	COTTER PIN, 1/4" X 2-1/4"	1
22.	50200237	PLUG, 3/8"	1
23.	30053	HEX BOLT, 3/8" X 1"	4
	30124	LOCKWASHER, 3/8"	4
24.	31364	PLUG, 1/8"	1

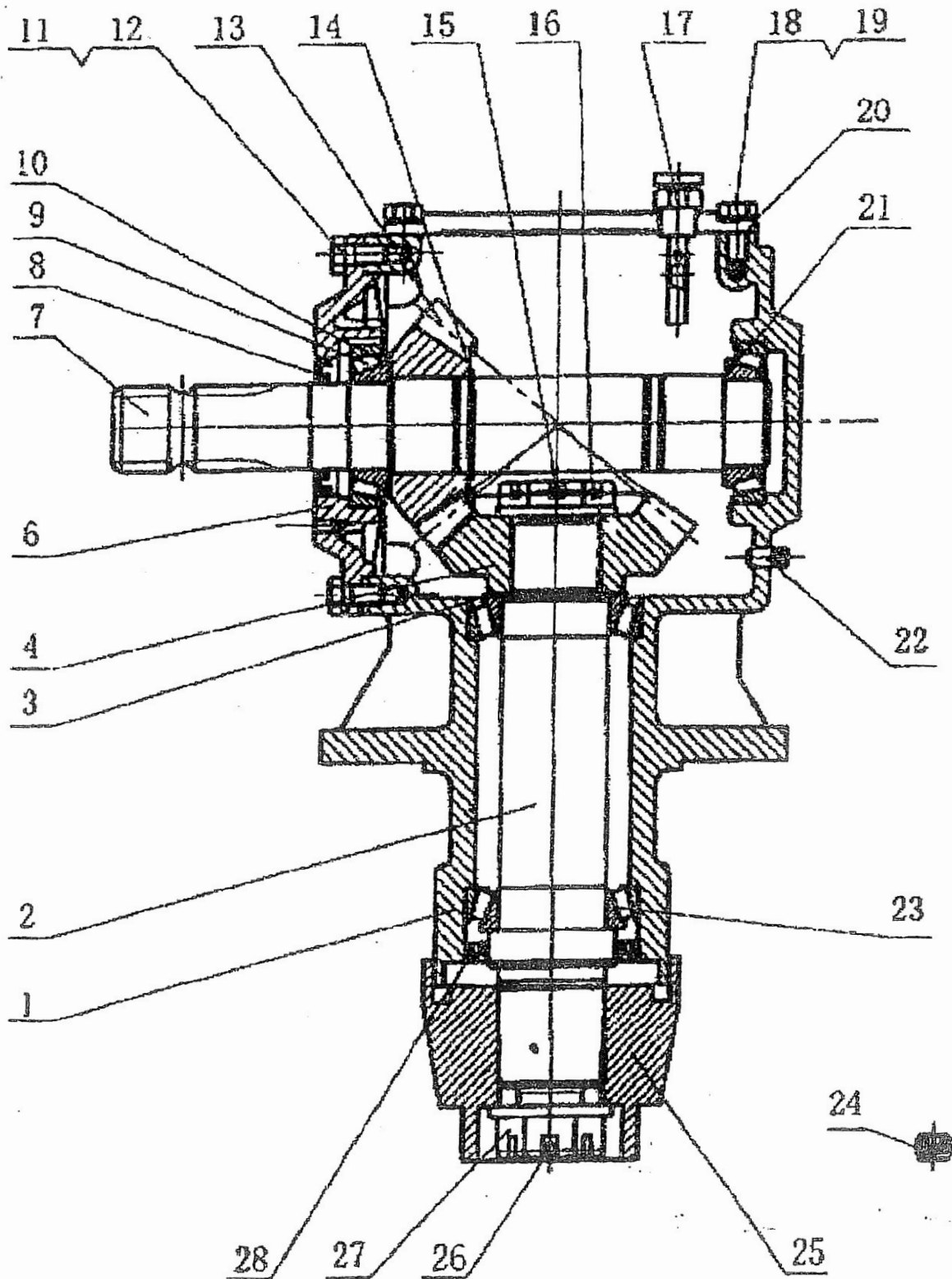
50200217 GEARBOX

REF.	PART NO.	DESCRIPTION	QTY.
1.	50200221	HOUSING	1
2.	50200222	OUTPUT SHAFT	1
3.	50200223	SHIM	VAR
4.	50200224	OUTPUT GEAR, 13 TOOTH	1
5.	50200225	SPACER	1
6.	50200226	INPUT CAP	1
7.	50200227	INPUT SHAFT	1
8.	50200228	SEAL	1
9.	50200229	BEARING	2
10.	50200235	SHIM	VAR
11.	30054	HEX BOLT 3/8-16 X 1-1/4	10
12.	30124	LOCKWASHER 3/8	10
13.	50200230	INPUT GEAR, 19 TOOTH	1
14.	50200231	RETAINING RING	1
15.		COTTER PIN	1
16.	50200232	CASTLE NUT, OUTPUT SHAFT	1
17.	50200233	BREATHER / OIL LEVEL	1
18.	30053	HEX BOLT 3/8-16 X 1	4
19.	30124	LOCKWASHER 3/8	4
20.	50200234	TOP GEARBOX CAP	1
21.	50200223	SHIM	VAR
22.	31364	PLUG, 1/8	1
23.	50200236	BEARING	2
24.	50200237	PLUG, 3/8	1
25.	50200238	HUB	1
26.		COTTER PIN	1
27.	50200239	CASTLE NUT, BLADE PAN HUB	1
28.	50200240	SEAL	1



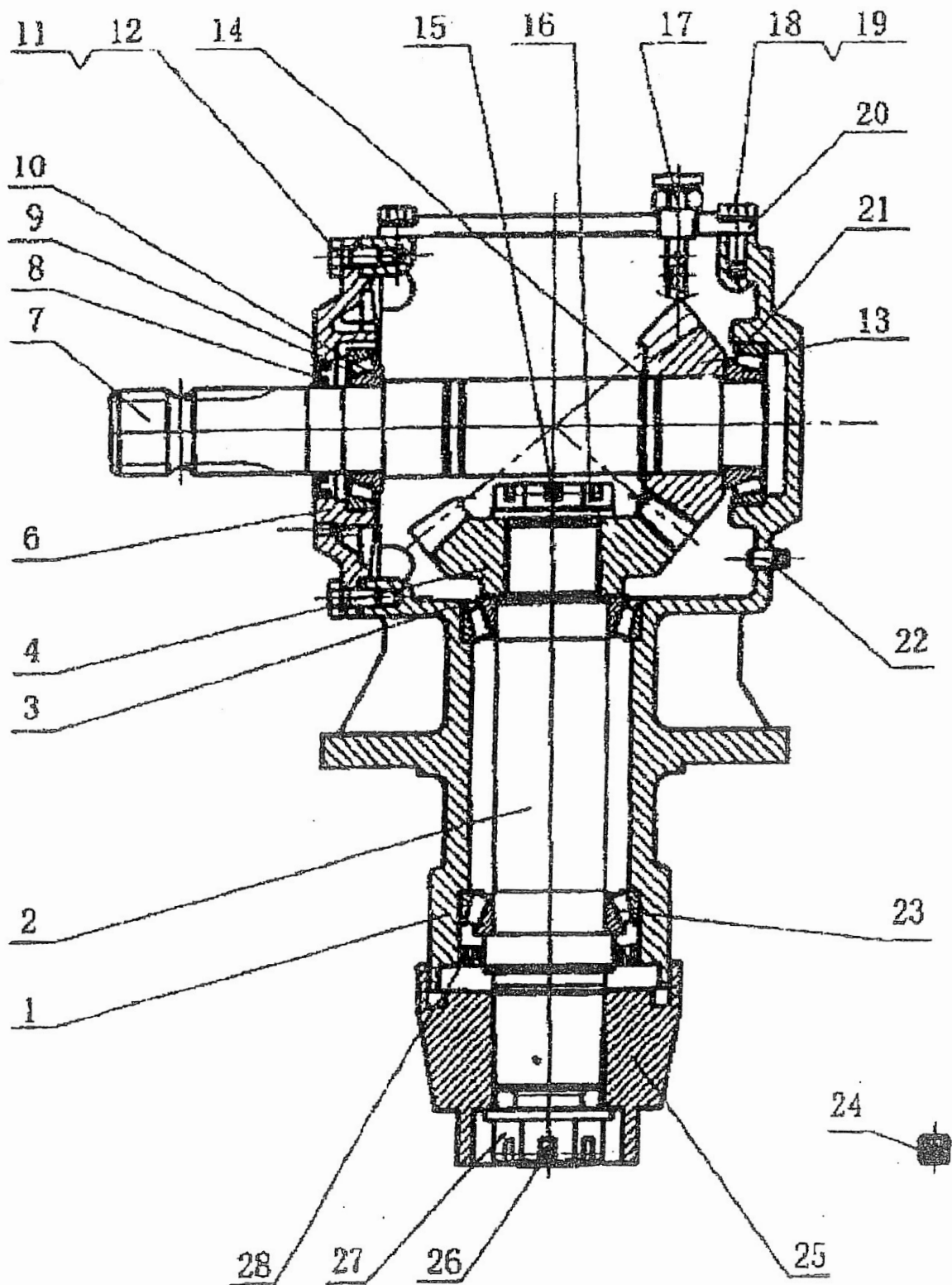
50200218 GEARBOX

REF.	PART NO.	DESCRIPTION	QTY.
1.	50200221	HOUSING	1
2.	50200222	OUTPUT SHAFT	1
3.	50200223	SHIM	VAR
4.	50200242	OUTPUT GEAR, 17 TOOTH	1
6.	50200226	INPUT CAP	1
7.	50200227	INPUT SHAFT	1
8.	50200228	SEAL	1
9.	50200229	BEARING	2
10.	50200223	SHIM	VAR
11.	30054	HEX BOLT 3/8-16 X 1-1/4	10
12.	30124	LOCKWASHER 3/8	10
13.	50200241	INPUT GEAR, 14 TOOTH	1
14.	50200231	RETAINING RING	1
15.		COTTER PIN	1
16.	50200232	CASTLE NUT, OUTPUT SHAFT	1
17.	50200233	BREATHER / OIL LEVEL	1
18.	30053	HEX BOLT 3/8-16 X 1	4
19.	30124	LOCKWASHER 3/8	4
20.	50200234	TOP GEARBOX CAP	1
21.	50200235	SHIM	VAR
22.	31364	PLUG, 1/8	1
23.	50200236	BEARING	2
24.	50200237	PLUG, 3/8	1
25.	50200238	HUB	1
26.		COTTER PIN	1
27.	50200239	CASTLE NUT, BLADE PAN HUB	1
28.	50200240	SEAL	1



50200219 GEARBOX

REF.	PART NO.	DESCRIPTION	QTY.
1.	50200221	HOUSING	1
2.	50200222	OUTPUT SHAFT	1
3.	50200223	SHIM	VAR
4.	50200242	OUTPUT GEAR, 17 TOOTH	1
6.	50200226	INPUT CAP	1
7.	50200227	INPUT SHAFT	1
8.	50200228	SEAL	1
9.	50200229	BEARING	2
10.	50200235	SHIM	VAR
11.	30054	HEX BOLT 3/8-16 X 1-1/4	10
12.	30124	LOCKWASHER 3/8	10
13.	50200241	INPUT GEAR, 14 TOOTH	1
14.	50200231	RETAINING RING	1
15.		COTTER PIN	1
16.	50200232	CASTLE NUT, OUTPUT SHAFT	1
17.	50200233	BREATHER / OIL LEVEL	1
18.	30053	HEX BOLT 3/8-16 X 1	4
19.	30124	LOCKWASHER 3/8	4
20.	50200234	TOP GEARBOX CAP	1
21.	50200223	SHIM	VAR
22.	31364	PLUG, 1/8	1
23.	50200236	BEARING	2
24.	50200237	PLUG, 3/8	1
25.	50200238	HUB	1
26.		COTTER PIN	1
27.	50200239	CASTLE NUT, BLADE PAN HUB	1
28.	50200240	SEAL	1

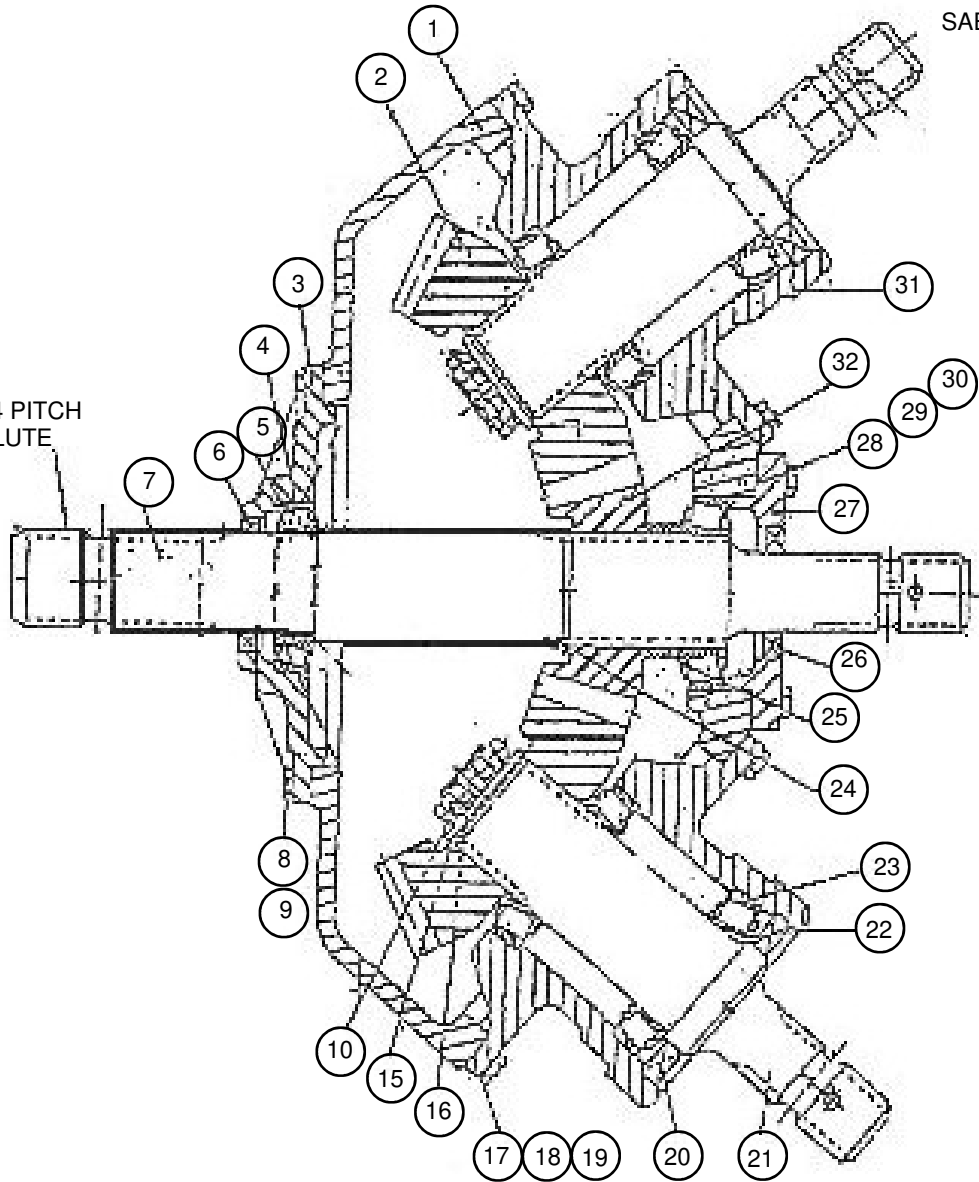


50200211 GEAR BOX

REF.	PART NO.	DESCRIPTION	QTY.
1.	50200207	HOUSING	1
2.	50200215	GEAR 20 TOOTH	2
3.	50200073	CAP	1
4.	50700043	BEARING CONE LM603049	1
5.	51200021	BEARING CUP LM603014	1
6.	50200176	SEAL	1
7.	50200212	INPUT SHAFT	1
8.	30054	HEX BOLT 3/8-16 X 1-1/4	28
9.	30018	3/8 LOCKWASHER	28
10.	10200076	LOCKNUT	2
13.	33330	1/8 OIL LEVEL PLUG	1
14.	50200071	1/2 PIPE PLUG	2
15.	10200150	LOCKWASHER	2
16.	10200149	FLATWASHER	2
17.	50200069	GASKET 0.30	VAR
18.	50200070	GASKET 0.15	VAR
19.	50200080	GASKET 0.10	VAR
20.	50200178	SEAL	2
21.	50200213	OUTPUT SHAFT	2
22.	50700042	BEARING CONE 368	5
23.	51200020	BEARING CUP 362A	5
24.	50200066	RETAINING RING	1
25.	50200203	SPACER	1
26.	50200176	SEAL	1
27.	50200202	T.S.O. CAP	1
28.	50200174	GASKET 0.30	VAR
29.	50200175	GASKET 0.15	VAR
31.	50200177	OUTPUT HUB	2
32.	50200214	GEAR 24 TOOTH	1

SAE 1 3/4-20 Teeth

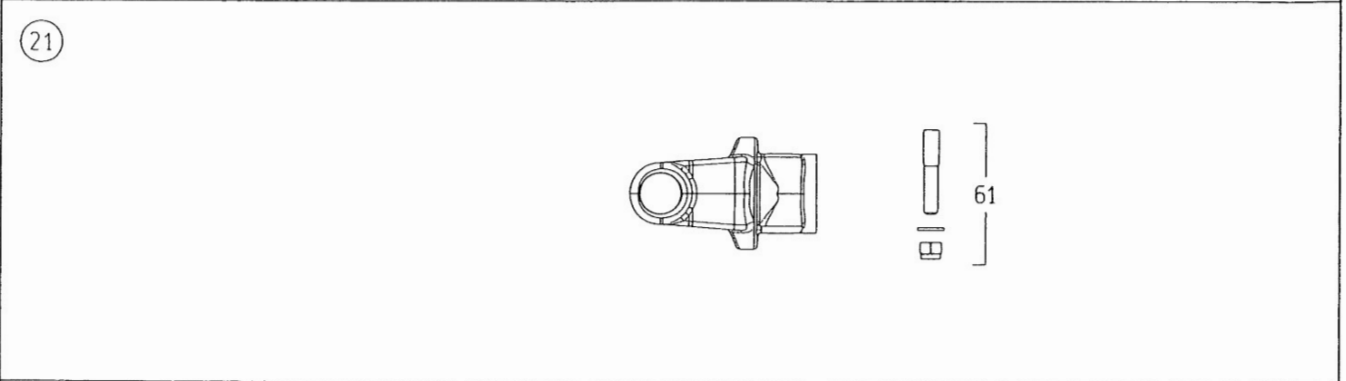
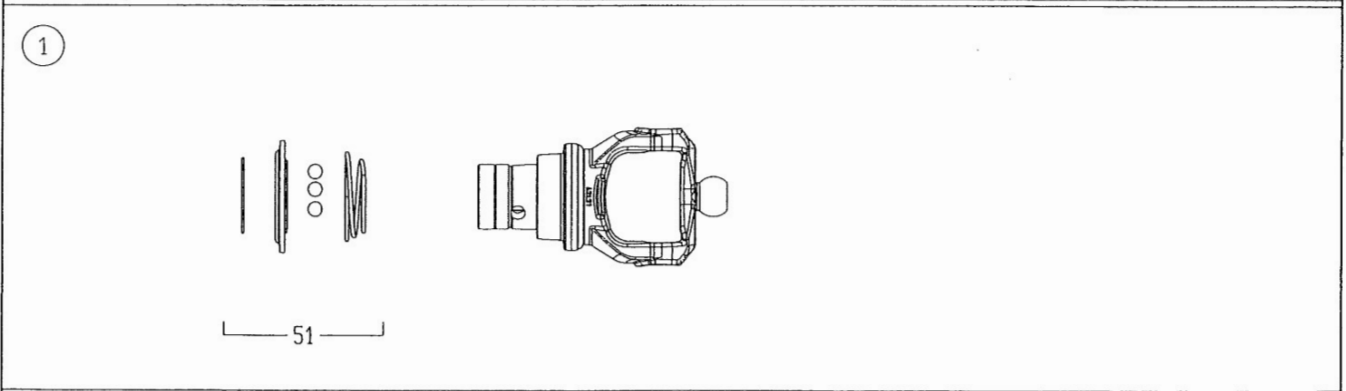
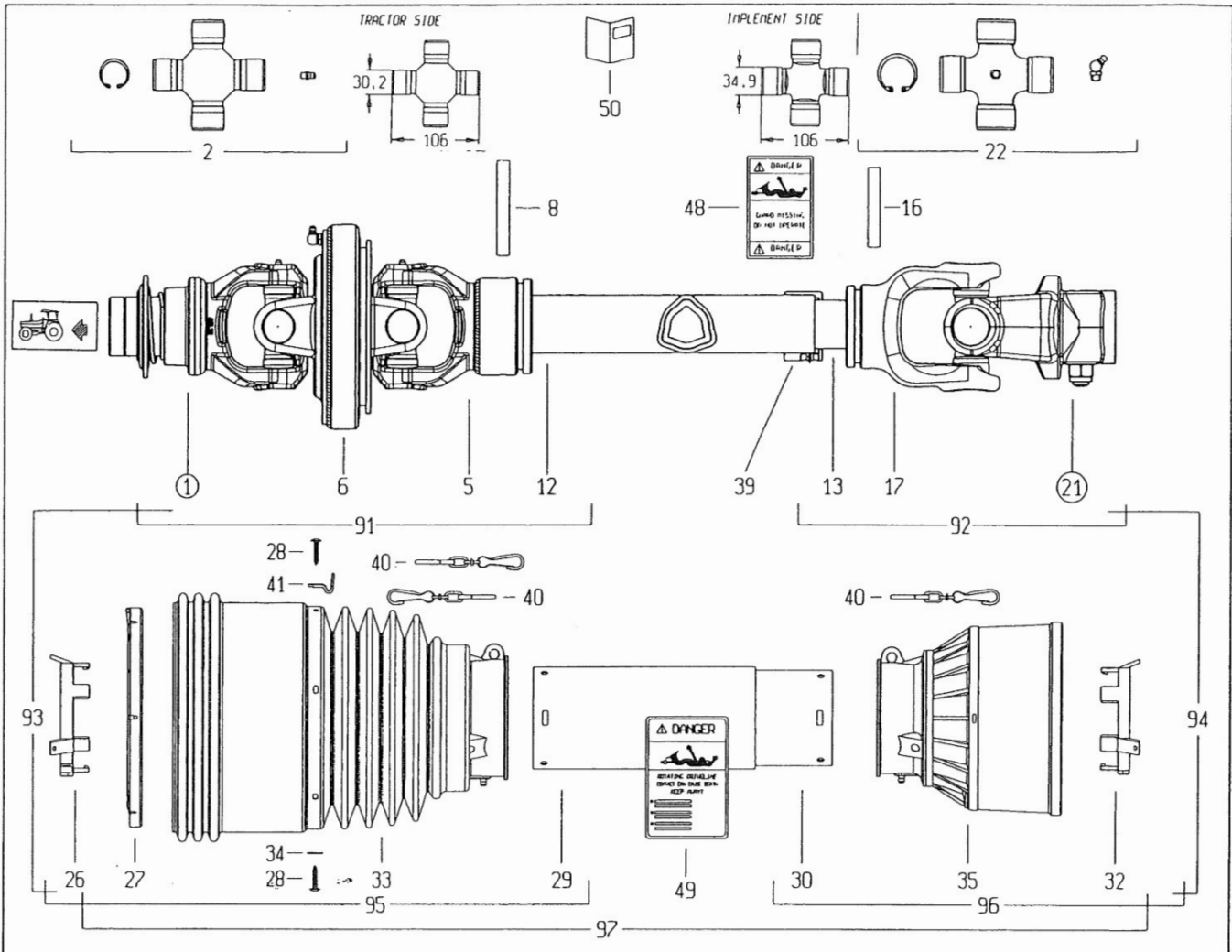
STD 1 3/4 - 12/24 PITCH
20 TEETH INVOLUTE



FLEX EAGLE 15 CV SERIES 8

81R8091UCWR7002

REF.	PART #	QTY.	DESCRIPTION
1	5730L0384	1	YOKE S8 1R8 1-3/8Z6 80[CV (R07)
2	4120 L0051R20	2	CROSS KIT SFT S8 80CV
5	2150L6873	1	-
6	5110L0063	1	CENTRAL BODY SFT S8 BOCV
8	341054000R10	1	FLEXIBLE ROLL PIN #819 OUTER 12X90MM
12	224320710	1	-
13	245390720	1	-
16	341055000R10	1	FLEXIBLE ROLL PIN #8/9 INNER 12X75MM
17	204086888	1	-
21	5090M3860	1	YOKE SFT S9 1 314Z20 TAPER PIN
22	4120 M0011R20	1	CROSS KIT S9 34.9X106 45°ZERK
26	255080005R02	1	SHIELD SUPPORT #8-9-10 OUTER 8G502
27	2550L0023R02	1	SHIELD SUPPORT SFT EL CV80 S8
28	310001431R30	6	SELF TAPPING SHIELDING SCREW
29	236850640	1	SAFETY TUBE
30	2370084E4	1	-
32	255080006R02	1	SHIELD SUPPORT #8-9-10 INNER 8G602
33	517080200	1	-
34	332001020R30	5	WASHER
35	517080120	1	I.CONE SHIELD CONE #8-9 INNER STD(F1)
39	259006803	1	GREASING COLLAR #6 RILSAN 6839
40	252000050R02	3	COMPLETE CHAIN
41	240001063	1	hook for chain
48	399143000	1	DANGER LABEL -OUTER DRIVE TUBE
49	399141000	1	DANGER/SHIELD LABEL
50	399A10000	1	INSTRUCTIONS BOOKLET with hole in plas.
51	435000323R	1	-
61	408000076R	1	-
91	8ER809100001	1	HALF SHAFT UNCLEARED
92	71R809100017R	1	HALF SHAFT UNCLERead
93	8ER8091UC001	1	HALF SHAFT CLEARED
94	8IR8091 UC002	1	HALF SHAFT CLEARED
95	4FE809105UC	1	HALF SHIELD KIT
96	4F1809105UC	1	HALF SHIELD KIT
97	4F0809105UC	1	COMPLETE SHIELD KIT



FLEX EAGLE 15

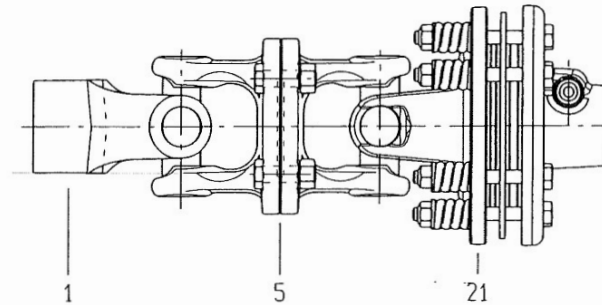
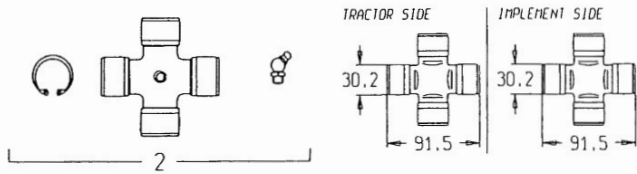
CV SERIES 8

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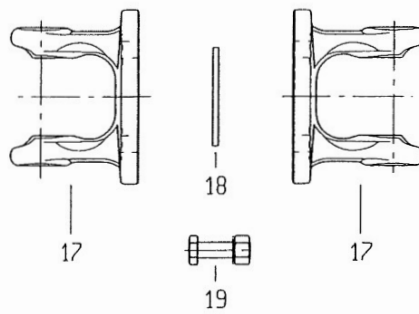
FLEX EAGLE 15 CENTER

7GF60300V3

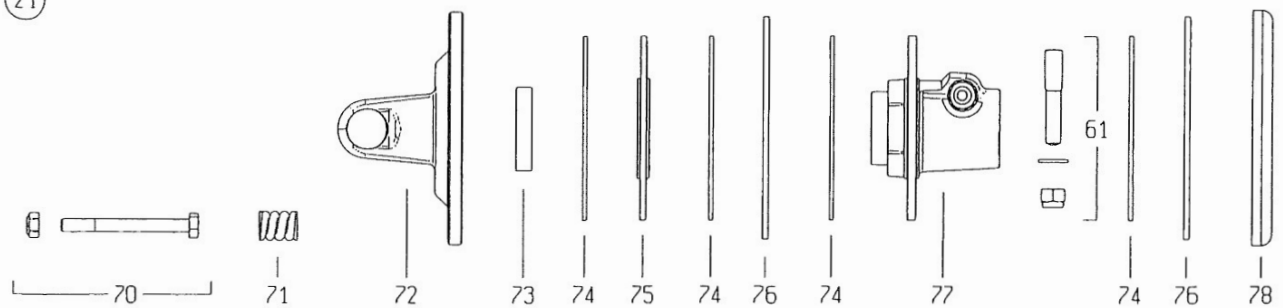
REF.	PART#	QTY.	DESCRIPTION
1	203063851	1	YOKE #6 1-3/4"Z20 SPLINE (030)
2	4120H0011R30	2	CROSS KIT #6 30.2x91.5 ZERK IN BODY
5	518060053	1	YOKE
17	221067153	2	FLANGE YOKE #6 (4) BOLT (090)
18	299000069	1	RING
19	408000043	4	SCREW
21	635H51338R	1	FFV34 CLUTCH S7 1350NM 1 3/4Z20
61	408000049R02	1	PIN +NUT+WASHER
70	432000007R08	8	SCREW BOLT-NUT M10X100 CL8.8 PKG-8
71	351022370R08	8	COIL SPRING FF CLUTCH 6MM DIA
72	2530141C05	1	FLANGED YOKE
73	258005320R02	1	BUSHING FF1/FF2/FF3/FF4/CLUTCH
74	247006251R08	4	LINING 141x77x3.2 FD2/22 - FT-FV32/34
75	248727702	1	DISC DRIVING PLATE FT34 CLUTCH
76	2481C0007	2	CLUTCH INNER PLATE FT34
77	515893805	1	SPLINED HUB FT34 FV34 1-3/4Z20 T.PIN
78	248220007	1	CLUTCH PRESSURE PLATE FF1/FF3



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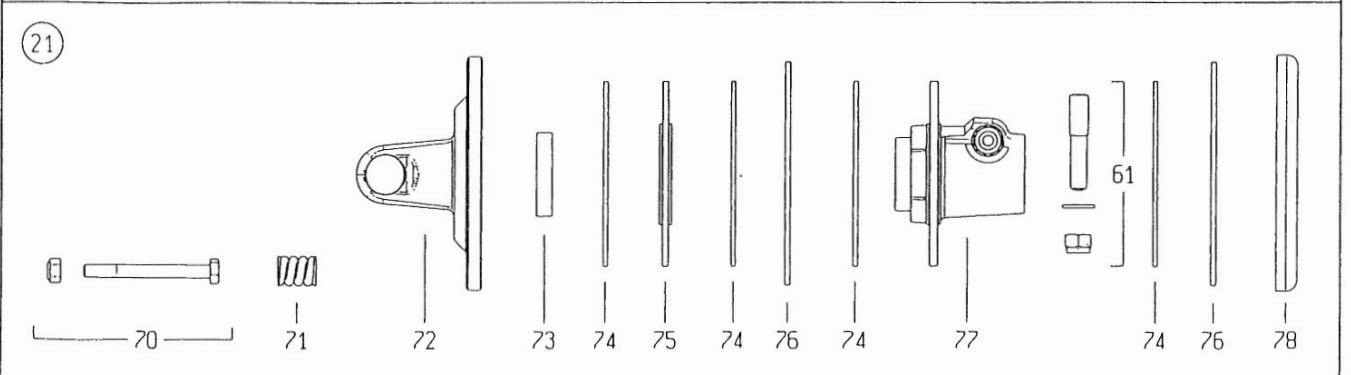
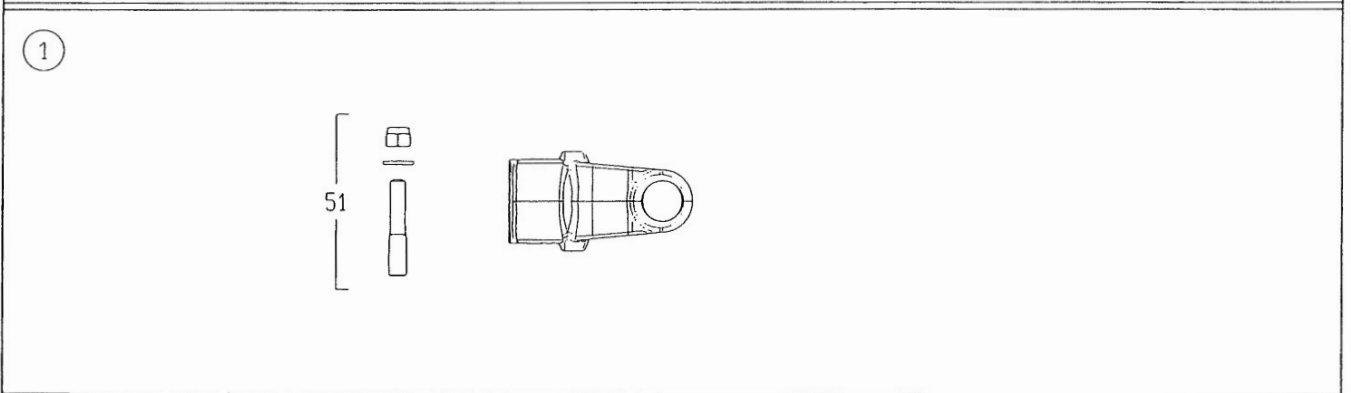
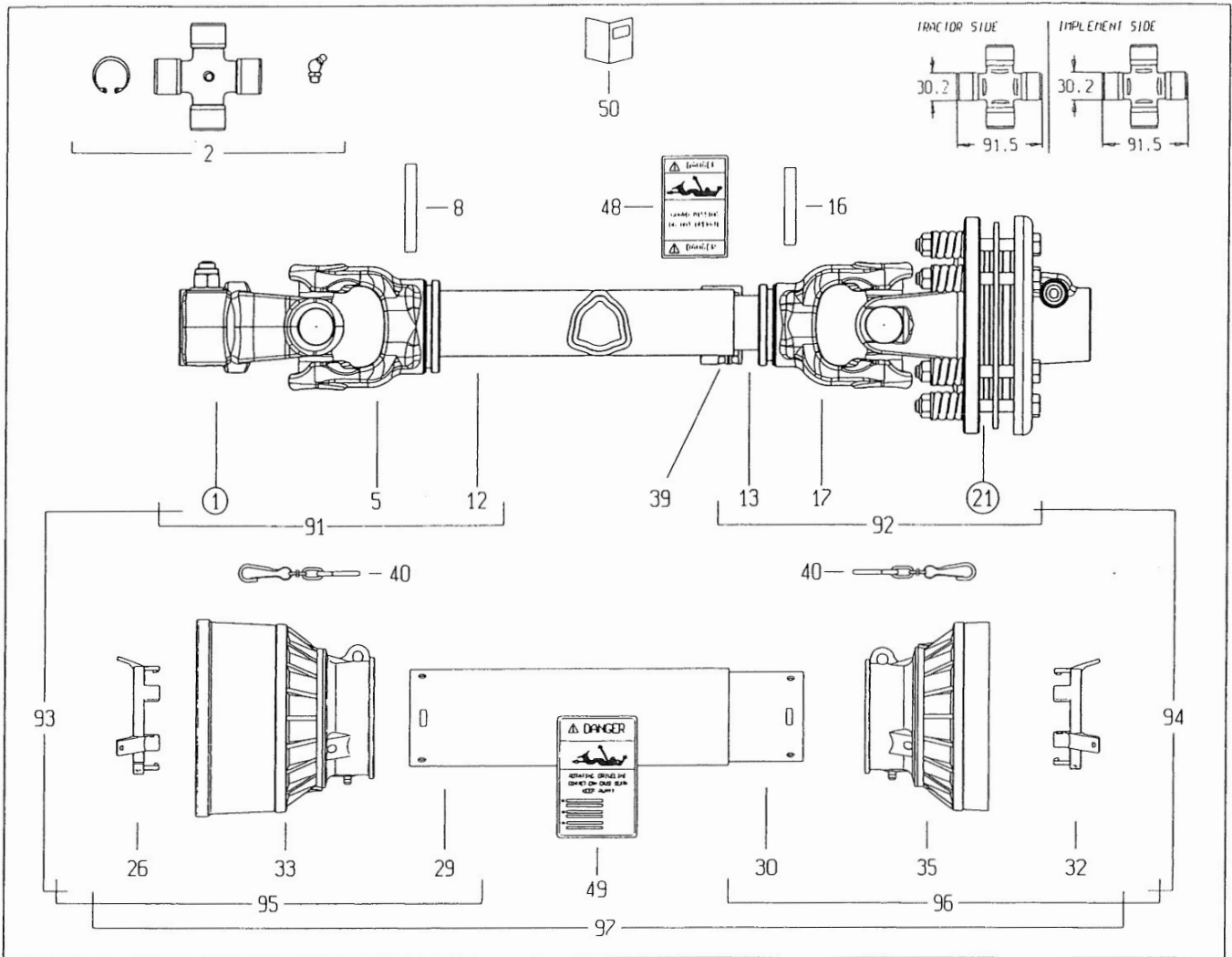
FLEX EAGLE CENTER

COOICE / CODE
7GF60300V3

FLEX EAGLE 15 WING

8106141UC017001

REF.	PART #	QTY.	DESCRIPTION
1	5090H3860	1	YOKE SFT S7 1 3/4Z20 TAPER PIN
2	4120H0011R30	2	CROSS KIT #6 30.2x91.5 ZERK IN BODY
5	204066851	1	YOKE #6 OUTER TUBE
8	341042000R10	1	FLEXIBLE ROLL PIN #6/7 OUTER 10X75MM
12	224211240	1	CARDAN DRIVE TUBE #6 OUTER L=1240
13	270161045	1	-
16	341043000R10	1	FLEXIBLE ROLL PIN #6/7 INNER 10X65MM
17	204066852	1	YOKE #6 INNER TUBE
21	635H48338R	1	FFV34 CLUTCH S7 1200NM 1 3/4Z20
26	255060005R02	1	SHIELD SUPPORT #6-7 OUTER 6G502
29	236831178	1	-
30	2370082D3	1	-
32	255060006R02	1	SHIELD SUPPORT #6-7 INNER 6G602
33	517050030	1	O.CONE SHIELD CONE #5-6-7 OUTER (F1)
35	517050026	1	I.CONE SHIELD CONE #5-6-7 INNER (F6)
39	259006802	1	GREASING COLLAR #6-7 6745
40	252000050R02	2	COMPLETE CHAIN
48	399143000	1	DANGER LABEL -OUTER DRIVE TUBE
49	399141000	1	DANGER/SHIELD LABEL
50	399A10000	1	INSTRUCTIONS BOOKLET with hole in plas.
51	408000076R	1	-
61	408000049R02	1	PIN +NUT+WASHER
70	432000007R08	8	SCREW BOLT-NUT M10X100 CL8.8 PKG-8
71	351022370R08	8	COIL SPRING FF CLUTCH 6MM DIA
72	2530H1C05	1	FLANGED YOKE
73	258005320R02	1	BUSHING FF1/FF2/FF3/FF4/CLUTCH
74	247006251R08	4	LINING 141x77x3.2 FD2/22 - FT-FV32/34
75	248727702	1	DISC DRIVING PLATE FT34 CLUTCH
76	2481C0007	2	CLUTCH INNER PLATE FT34
77	515893805	1	SPLINED HUB FT34 FV34 1-3/4Z20 T.PIN
78	248220007	1	CLUTCH PRESSURE PLATE FF1/FF3
91	8EC614100001	1	HALF SHAFT UNCLEARED
92	810614100002	1	HALF SHAFT UNCLEREAD
93	8EC6141UC001	1	HALF SHAFT CLEARED
94	8106141UC001	1	HALF SHAFT CLEARED
95	4FE614101UC	1	HALF SHIELD KIT
96	4F1614101UC	1	HALF SHIELD KIT
97	4F0614101UC	1	COMPLETE SHIELD KIT

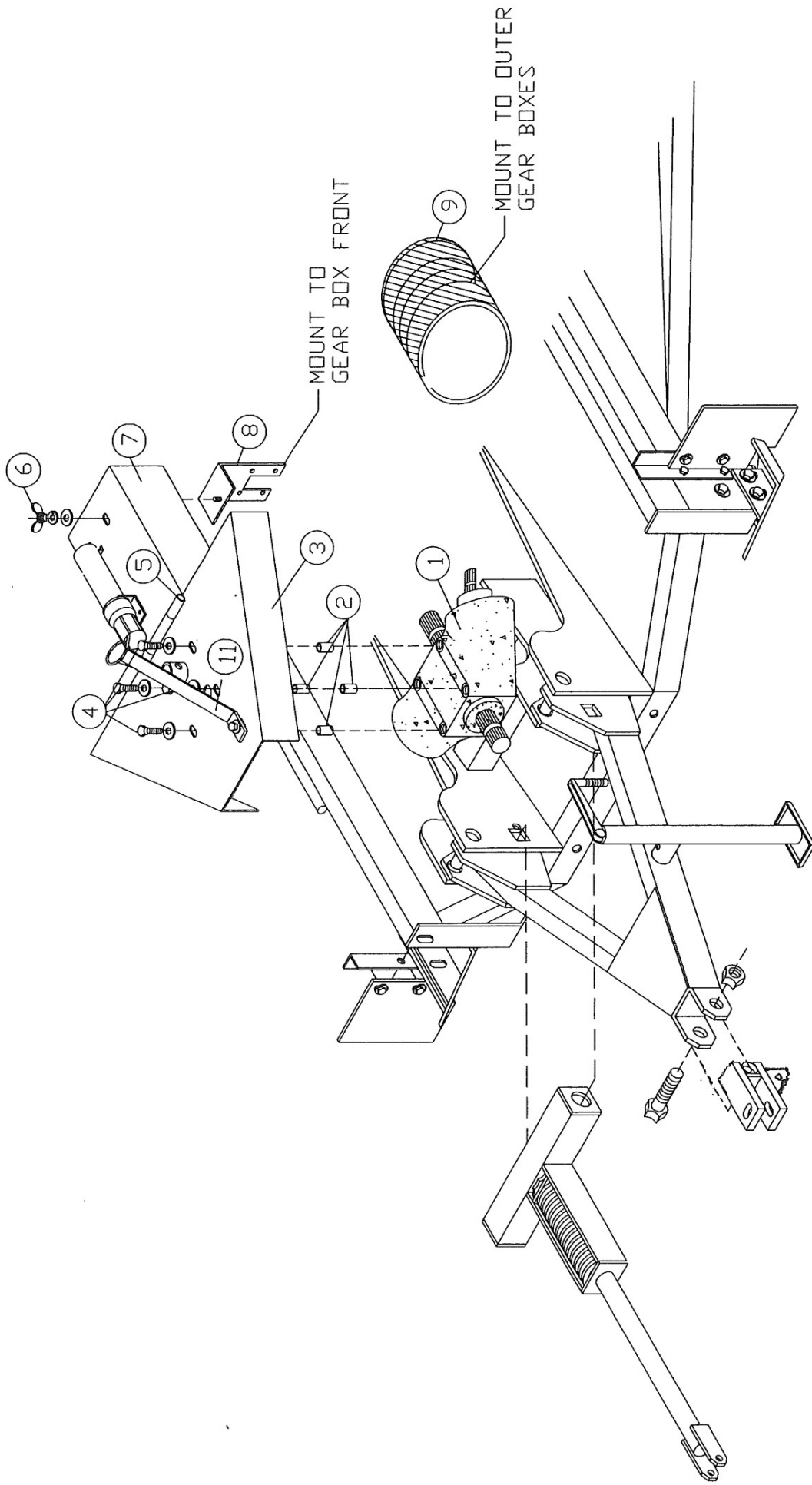


FLEX EAGLE 15 WING

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81C6141UC017001

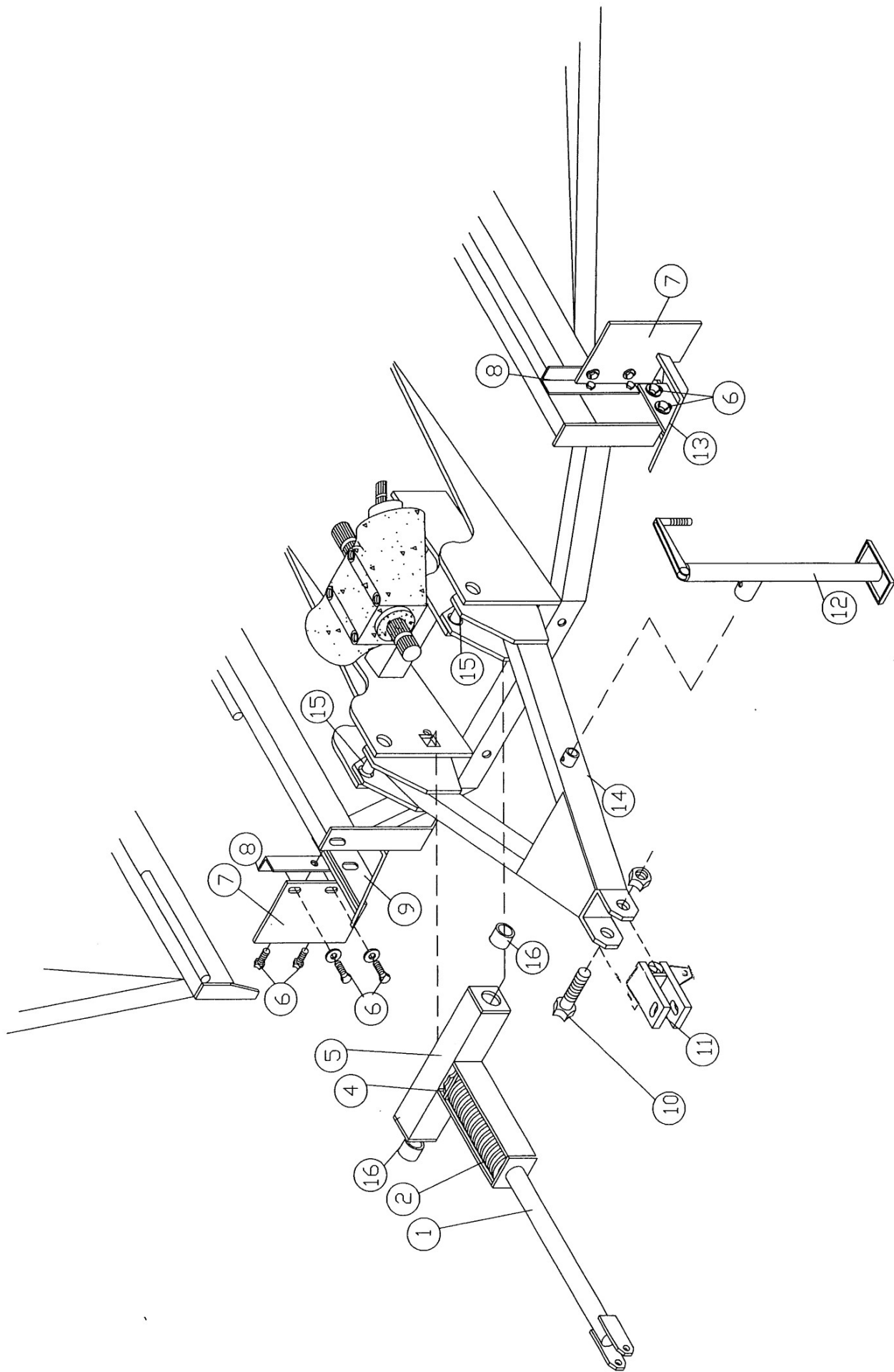
SHIELDS

REF.	PART NO.	DESCRIPTION	QTY.
1.	50200211	DIVIDER GEARBOX	1
2.	30900356	SPACER, SHIELD	4
3.	30900355	FRONT SHIELD	1
4.	30083	HEX BOLT 1/2 X 2	4
	30126	LOCKWASHER 1/2	4
5.	30900069	HINGE ROD	1
	10300058	COTTER PIN 3/32 X 1	2
6.	10200300	WING NUT 1/2	1
7.	30900467	REAR SHIELD	1
8.	30900481	MOUNTING BRACKET, SHIELD	1
9.	51800047	SHIELD, WINGS	2
	30046	HEX BOLT 5/16-18 X 1"	12
	30123	LOCK WASHER 5/16	12
	30134	FLAT WASHER 5/16	12
10.	OMC-1	OPERATOR'S MANUAL CANISTER	1
11.	30900067	HYDRAULIC HOSE CARRIER	1



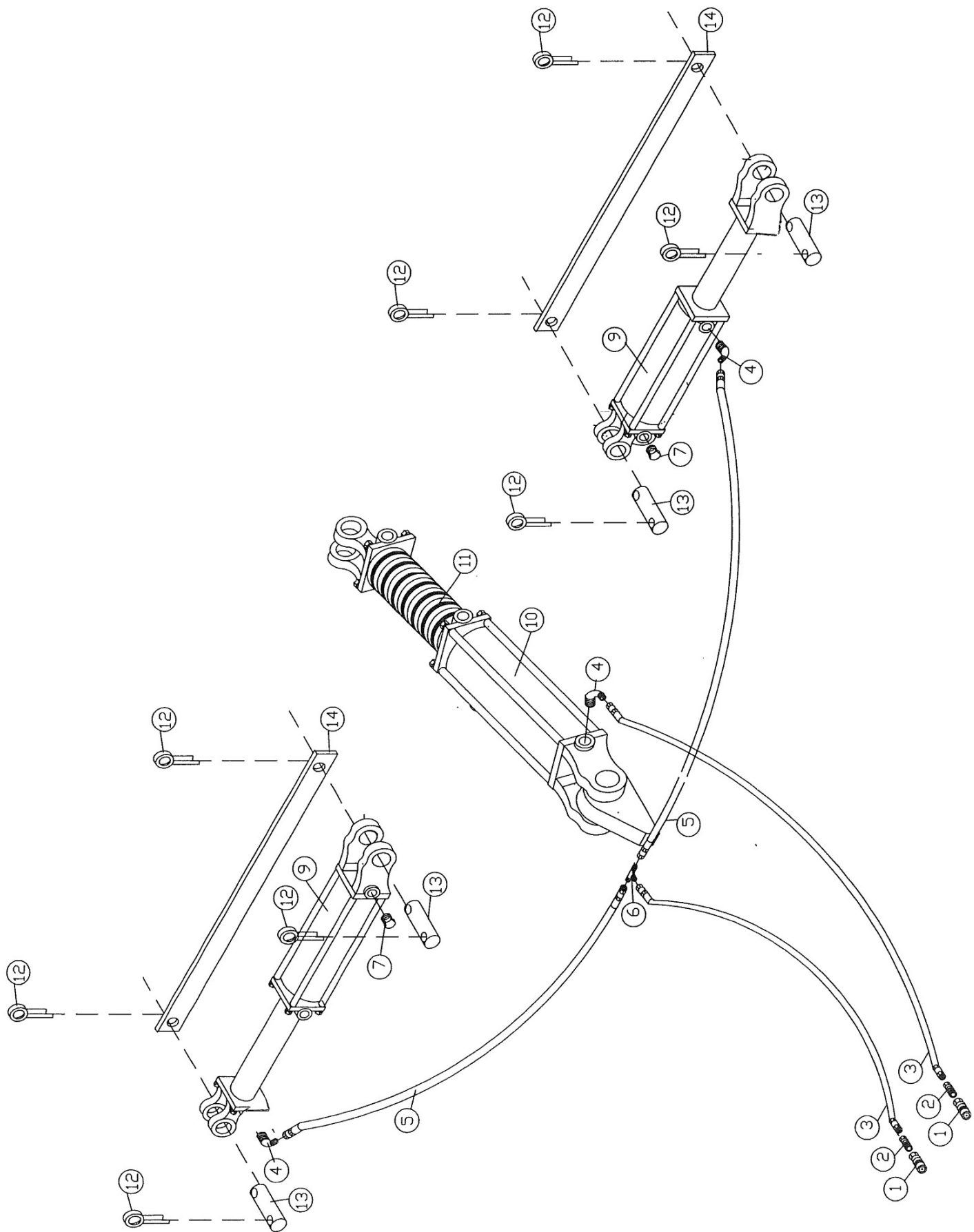
TONGUE

REF.	PART NO.	DESCRIPTION	QTY.
1.	30900482	SPRING ROD	1
2.	52000007	SPRING	1
4.	30900483	SPRING PLATE	1
5.	30900466	JAW SPRING LEVEL BRACKET	1
6.	30071	HEX BOLT 1/2 X 1- 3/4	4
	30022	LOCK NUT 1/2	4
	30138	FLAT WASHER 1/2	4
7.	30900474	RUBBER GUARD	2
8.	30900472	RUBBER GUARD BRACKET	2
9.	30900353	SKID SHOE, RIGHT	1
10.	10100728	HEX BOLT 1 X 5-1/2	1
	10200067	LOCK NUT 1"	1
11.	30900465	TONGUE JAW	1
12.	51800028	JACK, 5000#	1
13.	30900354	SKID SHOE, LEFT	1
14.	30900463	TONGUE	1
15.	10100730	HEX BOLT 1 X 6-1/2	2
	10200067	LOCK NUT 1"	2
16.	30900484	BUSHING, JAW SPRING	2
17.	30068	HEX BOLT 1/2 X 1-1/4	8
	30022	LOCK NUT 1/2	8
	30138	FLAT WASHER 1/2	8



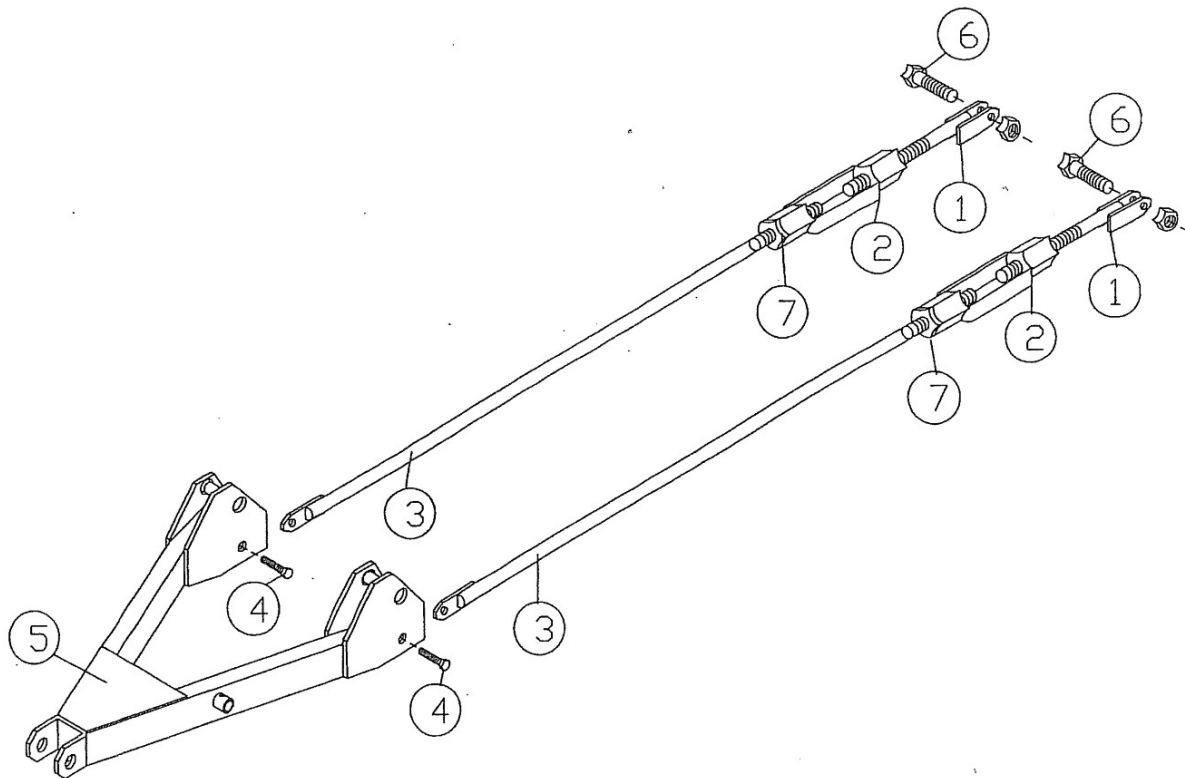
HYDRAULICS

REF.	PART NO.	DESCRIPTION	QTY.
1.	50300393	HYDRAULIC COUPLER	2
2.	50300382	FLOW RESTRICTOR	2
3.	50300390	HYDRAULIC HOSE 180"	2
4.	50300383	ELBOW 45	3
5.	50300386	HYDRAULIC HOSE 36"	1
	50300387	HYDRAULIC HOSE 60"	1
6.	50300384	3/8" JIC "T" FITTING	1
7.	50300223	BREATHER	3
9.	50300221	HYDRAULIC CYLINDER 3 X 10	2
10.	50300195	HYDRAULIC CYLINDER 3 X 8	1
11.	50300371	STROKE CONTROL SEGMENTS	1
12.	20913	PIN	6
13.	30900475	PIN, WING CYLINDER	4
14.	30900049	LOCK BAR, WING CYLINDER	2



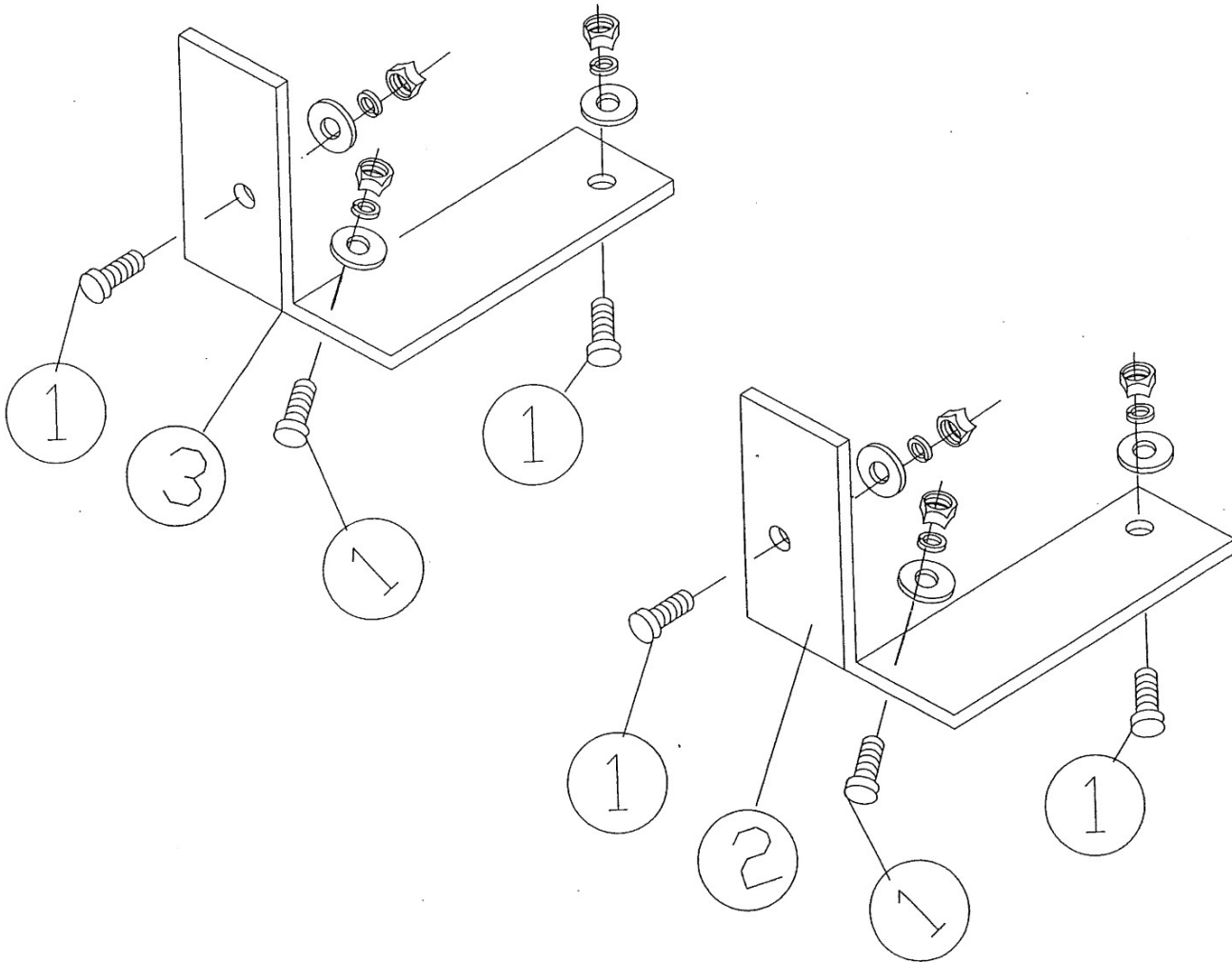
LEVEL ROD

REF.	PART NO.	DESCRIPTION	QTY.
1.	30900347	LEVEL ROD, SHORT	2
2.	51800125	TURNBUCKLE BODY	2
3.	30900464	FRONT LEVEL ROD	2
4.	10100635	HEX BOLT, 3/4 X 3-1/2	2
	30032	LOCK NUT 3/4	2
5.	30900463	TONGUE	1
6.	30098	HEX BOLT, 3/4 X 3	2
	30032	LOCK NUT 3/4	2
7.	10200047	JAM NUT, 1-1/4	2



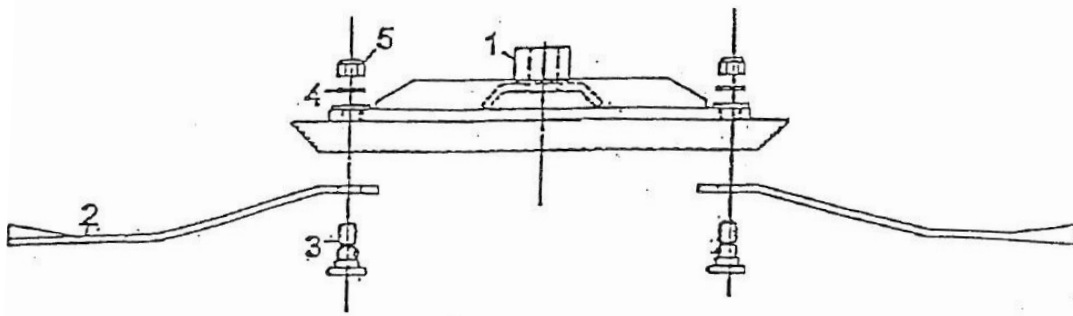
SKID SHOES, WING

REF.	PART NO.	DESCRIPTION	QTY.
1.	10100303	PLOW BOLT 3/8 X 1-1/2	6
	30018	HEX NUT 3/8	6
	30124	LOCK WASHER 3/8	6
	30136	FLAT WASHER	6
2.	30900468	SKID SHOE, RIGHT WING	1
3.	30900485	SKID SHOE, LEFT WING	1

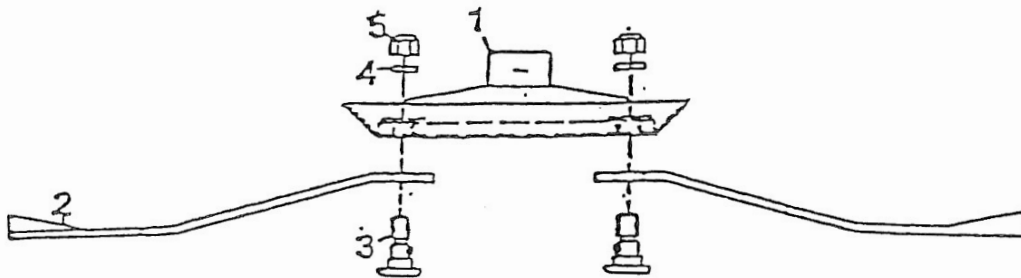


BLADE PAN

REF.	PART NO.	DESCRIPTION	QTY.
1.	30900454	BLADE PAN & BAR 26-1/4"	1
2.	50800026	23" BLADE	2
3.	31380	BLADE BOLT	2
4.	31382	LOCKWASHER 1-1/8	2
5.	31416	JAM NUT 1-1/8	2

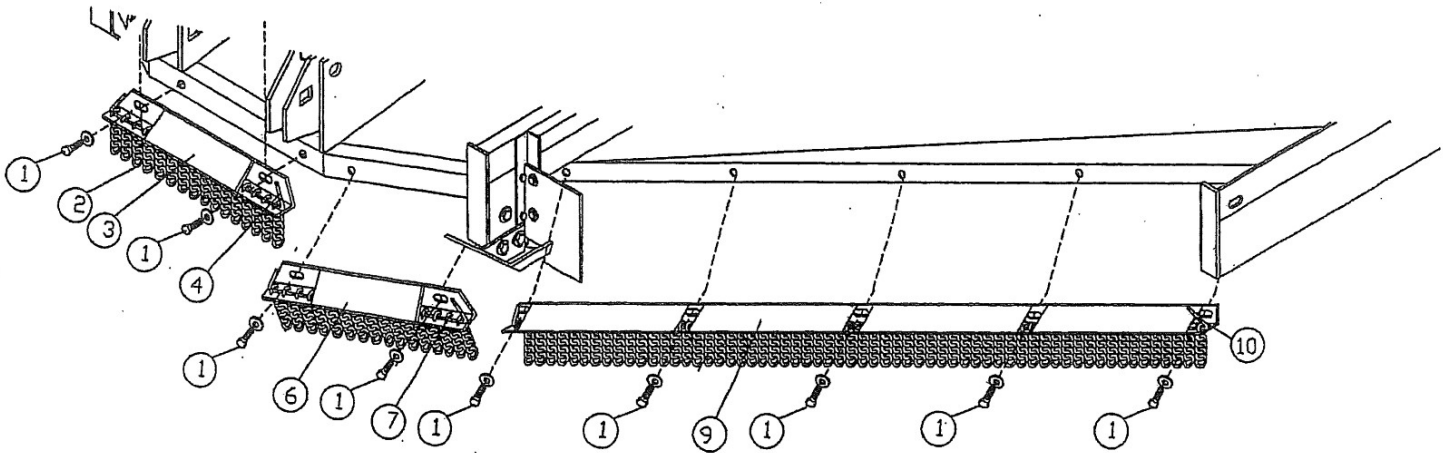


REF.	PART NO.	DESCRIPTION	QTY.
1.	30900455	BLADE PAN & BAR 16"	2
2.	50800026	23" BLADE RIGHT WING	2
	50800036	23" BLADE LEFT WING	2
3.	31380	BLADE BOLT	4
4.	31382	LOCKWASHER 1-1/8	4
5.	31416	JAM NUT 1-1/8	4



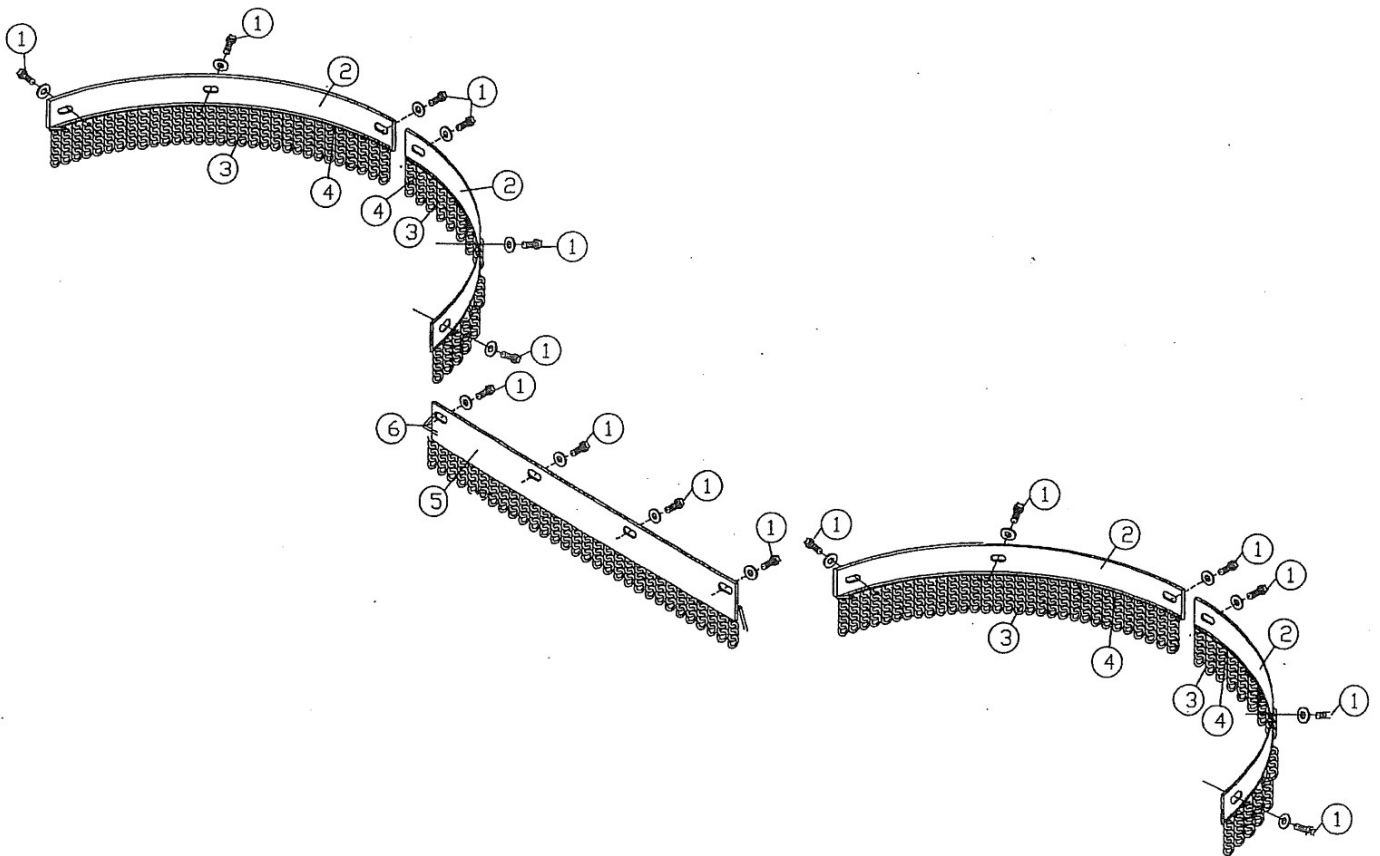
FRONT CHAIN GUARDS

REF.	PART NO.	DESCRIPTION	QTY.
1.	30068	HEX BOLT 1/2 X 1-1/4	16
	30138	FLAT WASHER 1/2	16
	30022	LOCK NUT 1/2	16
2.	50400019	CHAIN, 5/16, 6 LINK	
3.	30900476	FRONT CENTER CHAIN GUARD	1
4.	30900114	CHAIN SUPPORT ROD 32"	1
6.	30900477	FRONT CENTER OUTER CHAIN GUARD	2
7.	30900115	CHAIN SUPPORT ROD 21"	2
9.	30900478	FRONT WING CHAIN GUARD	2
10.	30900116	CHAIN SUPPORT ROD 72"	2



REAR CHAIN GUARD

REF.	PART NO.	DESCRIPTION	QTY.
1.	30068	WING DECKS - HEX BOLT 1/2 X 1-1/4	12
	10100370	CENTER DECK - HEX BOLT 1/2 X 4	4
	30138	FLAT WASHER 1/2	16
	30022	LOCK NUT 1/2	16
2.	30900480	WING REAR CHAIN GUARD	4
3.	50400019	CHAIN, 5/16, 6 LINK	
4.	30900642	CHAIN SUPPORT ROD 36"	4
5.	30900479	CENTER REAR CHAIN GUARD	1
6.	30900117	CHAIN SUPPORT ROD 64"	1



WARRANTY

AG-MEIER INDUSTRIES LLC warrants to the original purchaser of new AG-MEIER INDUSTRIES LLC Product, that they are free for defects in material and workmanship. This warranty is applicable only for normal life expectancy of the unit or individual components for a period of one year from the date of original purchase if for personal use; 90 days for commercial or rental purposes. Warranty coverage is limited to replace any part, at no charge to the original purchaser that, in our judgment, shows evidence of defect: provided that upon written request, any such defective part is returned to AG-MEIER INDUSTRIES LLC within 30 days of failure.

This Warranty does not apply to any part or product which in AG-MEIER INDUSTRIES LLC judgment has been subjected to negligence, alteration, or modification. Equipment that has been damaged due to lack of proper maintenance or use of wrong oil or lubricants, or that has been used for a purpose for which the product is not designed is also excluded from the Warranty.

For maximum safety and to guarantee optimum product reliability, always use genuine AG-MEIER INDUSTRIES LLC parts. **The use of replacement parts manufactured by companies other than the AG-MEIER INDUSTRIES LLC invalidates this Warranty.**

Claims under the warranty must be made to the dealer which originally sold the product. AG-MEIER INDUSTRIES LLC reserves the right to make changes in material or design of the product at any time without notice.

This Warranty shall not be interpreted to render AG-MEIER INDUSTRIES LLC liable for damages of any kind; direct, consequential, or contingent, to property. Furthermore, AG-MEIER INDUSTRIES LLC shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to any expense due to loss for labor, supplies, rental machinery or for any other reason. This Warranty does not apply to any part of any internal combustion engine, driveline component, or expendable items such as blades, shields, guards, or tires as specifically found in the Operator's Manual.

Except as provided herein, no employee, agent, Dealer or other person is authorized to give any warranties of any nature on behalf of AG-MEIER INDUSTRIES LLC. This Warranty is not effective unless the Purchaser returns the Registration Form to the Manufacturer within 30 days of purchase.

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 particular purpose which exceed the obligations set forth in this written Warranty are hereby disclaimed and excluded from this sale.

If any provision of this limited Warranty shall violate any applicable law, and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provision herein.

MODEL _____

SERIAL # _____

Torque Values Chart for Common Bolt Sizes

Bolt Size (Inches) in-tpi ¹	Bolt Head Identification						Bolt Size (Metric) mm x pitch ⁴	Bolt Head Identification					
	Grade 2		Grade 5		Grade 8			5.8		8.8		10.9	
	N·m ²	ft-lb ³	N·m	ft-lb	N·m	ft-lb		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 dia. in inches-threads per inch

² N·m = newton-meters

³ ft-lb = foot pounds

⁴ mm x pitch = nominal thread dia. in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Blade Bolt Nut
Blade Carrier Hub Nut

600 ft-lbs
450 ft-lbs Minimum

WARRANTY REGISTRATION FORM & INSPECTION REPORT

WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and the customer at time of delivery. Mail back to AG-Meier Ind.

Customer name _____ Dealer name _____
Address _____ Address _____
City, state, code _____ City, state, code _____
Phone number (_____) _____
Model _____ Serial Number _____ Delivery date _____

DEALER: I hereby certify that:

I have thoroughly instructed the buyer on the above-described equipment; review including the operator's manual content, equipment care, adjustments, safe operation and applicable warranty policy.

All decals are installed and are in good repair.

Driveline, gearbox, and shields are in good repair and fastened securely in place to prevent injuries from entanglement or thrown objects.

All bolts have been checked and tightened.

Date _____ Dealer's signature _____

The above equipment and operators manual have been received by me, and I have been thoroughly instructed as to the care, adjustments, safe operation and applicable warranty policy

I have examined the equipment and accept it in complete and satisfactory condition

I have also examined all the warning/safety decals and understand the dangers of unauthorized repairs and alterations of the product

I further understand that attempting to operate this product outside of the specified design parameter will void the warranty as stated in the operating manual

I also understand that this warranty is considered null and void if I use any replacement parts other than those approved by AG-MEIER IND.

All warranty work **MUST BE APPROVED** by AG-MEIER IND. **BEFORE** any replacement or labor costs will be reimbursed.

Date _____ Owner's signature _____

**AG-MEIER INDUSTRIES, LLC
920 E. 6TH AVE.
BELTON, TX 76513**