



OPERATOR'S MANUAL

BFC-60 & BFC-72

This operator's manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. READ, UNDERSTAND, and FOLLOW the safety and operation instructions contained in this manual before operating the equipment.

BIGFOOT CUTTERS • TRI-L MANUFACTURING, INC.

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BEFORE OPERATING THIS MACHINE:

1. Carefully read the operator's manual, completely understand the safety messages and instructions, and know how to operate correctly both the mower and skid steer.
2. Record the mower model and serial numbers on the warranty page at the end of the operator's manual. Keep this as part of the permanent maintenance file for the Mower.

DANGER

Failing to follow safety messages and operating instructions can cause serious bodily injury or even death to operator and others in the area.

Read the manual. Study and understand operator's manual, safety signs, and instructional decals for skid steer and implement to prevent misuse, abuse, and accidents. Learn how to stop engine suddenly in an emergency. Be alert for passers-by and especially children.

No riders, no children operators. Allow no children on or near implement or skid steer. Allow no riders on the skid steer and implement. Falling off may cause serious injury or death from being run over by the skid steer or cutter or contact with rotating blades.

Use safety shoes, hard hat, safety glasses, seat belts and ROPS. **Operate only with the skid steer having Roll-Over-Protective Structure (ROPS)** and with seatbelt fastened securely and snugly to prevent injury and possible death from falling off or skid steer overturn. Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, and Ear Plugs are recommended.

Block up securely before working under. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted components to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering.

Transport safely. Before transporting, securely attach safety chain to the implement and towing unit.

Use SMV, lights, and reflectors. Make certain that the SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

Do not operate with cutter raised. Never operate with cutting head raised if passerby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by blades under guard or cutter structure.

Do not mount or dismount while moving. Before dismounting, secure implement in transport position or lower to the ground. Put skid steer in park or set the brake, disengage hydraulics, stop engine, and remove key, and wait until noise of rotation has ceased to prevent entanglement in rotating parts which can cause injury or death. Never mount or dismount a moving vehicle. Crushing from run over may cause injury or death.

STANDARD EQUIPMENT AND SPECIFICATIONS

- Superior Value – Most Affordably Priced
- Powerful Zero-Turn handling
- CHL, 12" Cutting Height Limiter Auto Blade Shut-Off
- Motor Protection with Cross-Port Relief Circuits
- Rear Discharge – Between Wheels
- SDD, Suspended Deck Design with Internal Structure Provides the Highest Possible Strength to Weight Ratio
- Weighs 720 (BFC-60) / 800 (BFC-72) lbs. for Fast/Stable No-Snag Maneuvering
- Large and Small Machine Compatible with Standard Flow Hydraulics (15-25 GPM)
- Fully Adjustable, HD Front Wheel & Fork Assembly is Standard Equipment
- Self-Cleaning Deck
- Double Side-Wall Construction for Strength and Long Lasting Appearance
- Structurally Protected Drive-Line Components
- Locally Available, Off-the-Shelf Replacement Parts/Hoses
- USA Made Major Components
- Limited 6 Month Warranty

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INTRODUCTION

All Bigfoot Cutters rotary mowers are carefully designed and solidly built. Proper maintenance and operating practices, as described in this manual, will help the owner/operator get years of service from the machine, saving extensive repairs and costly downtime losses.

The BFC mowers are designed to be operated on skid steer power units. These rugged mowers are designed for medium-duty work.

⚠ DANGER The Skid steer must be equipped with an Operator Front Protective Door. Serious injury or death can result from a thrown object hitting an unprotected operator. Contact the Skid steer manufacturer or an authorized dealer for this protective feature.

⚠ DANGER The mower is equipped with a CUTTING HEIGHT LIMITER, which must move freely at all times, with NO modifications or attempts to bypass. The CUTTING HEIGHT LIMITER is not a primary safety device.

⚠ DANGER The mower is equipped with a SAFETY CHAIN which must be properly attached to the skid steer during operation. Operating lift height should be limited to and not exceed 18”.

Think “Safety first!”

This manual includes a list of safety messages that, if followed, will help protect the operator and bystanders from injury or death. The owner/operator/dealer should know these safety messages and be aware of the hazards of operating this mower during assembly, use, and maintenance. The signal words, as seen below, are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this machine.

⚠ DANGER Indicates an imminently hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.

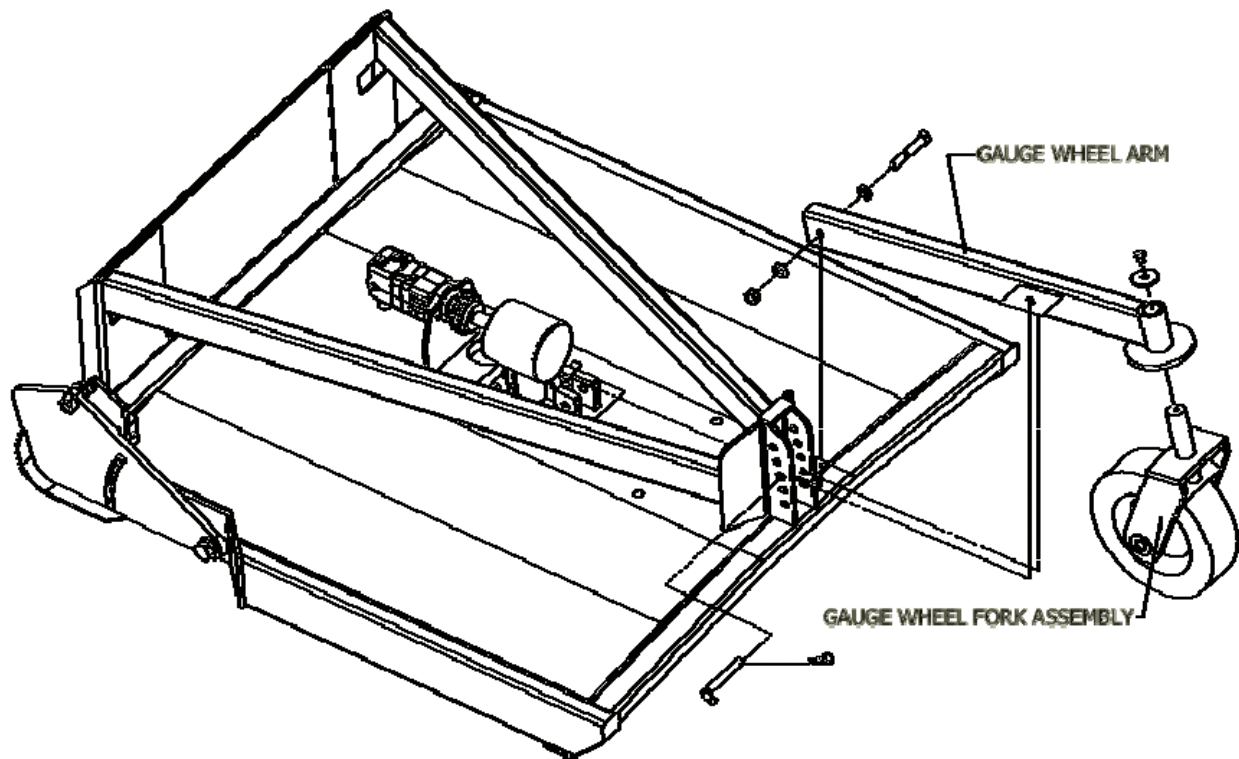
⚠ WARNING Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.

⚠ CAUTION Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

NOTICE Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

ASSEMBLY

Insert gauge wheel arm through front adjustment side plates. Attach bolt into upright pivot brackets through tubular end and secure with provided lock washer and nut. Insert hitch pin into adjustment side plate through tubular arm and secure with provided hairpin. Insert gauge wheel fork assembly into arm and secure with bolt and washer.



GAUGE WHEEL ARM & FORK ASSEMBLY DIAGRAM

Using 85W-140 SAE Gear Oil, fill the gearbox as described in the Maintenance section of this manual, pages 20-22. The filler/breather plug is on the top of the gearbox. The oil should be to the level of the lower, level check hole. The gearbox capacity is 23 ounces to 27 ounces. Also, using multipurpose grease (ISO VG 220), lubricate points A and B as shown in the diagram on page 20.

NOTE: Overfilling the Gearbox will cause pressure to build up and cause Oil Seals to leak.

OPERATION

BIGFOOT CUTTERS SKID STEER ROTARY MOWER OPERATION INSTRUCTIONS

Bigfoot Cutters rotary mowers are manufactured with quality material by skilled workers. These mowers are designed to cut grass, weeds, small brush, and other vegetative material up to 4" in diameter in certain conditions. No shielding is 100% effective. All shields, guards, and chains equipped on the unit must be maintained on the mower in good operating condition.

It is the operator's responsibility to be knowledgeable of all potential operating hazards and to take every reasonable precaution to ensure oneself, others, animals, and property are not injured or damaged by the mower, skid steer, or a thrown object. Do not operate the mower if passers-by, pets, livestock, or property are within 300 feet of the unit.

This section of the operator's manual is designed to familiarize, instruct, and educate safe and proper mower use to the operator. Some pictures may show shields removed for purposes of clarity. NEVER OPERATE this implement without all shields in place and in operational condition. The operator must be familiar with mower and skid steer operation and all associated safety practices before operating the mower and skid steer. Proper operation of the mower, as detailed in this manual, will help ensure years of safe and satisfactory use of the mower.

NOTICE To avoid mower damage, re-torque all bolts after the first 10 hours of operation. Retighten blade carrier retaining nut on gearbox lower shaft to 600 ft. lbs.

READ AND UNDERSTAND THIS ENTIRE MANUAL BEFORE ATTEMPTING TO USE THE SKID STEER AND IMPLEMENT. If you do not understand any of the instructions, contact your nearest authorized dealer for a full explanation. Pay close attention to all safety signs and safety messages contained in this manual and those affixed to the implement and skid steer.

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards.

OPERATOR REQUIREMENTS

Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and skid steer's operator's manuals and is experienced in implement and skid steer operation and all associated safety practices. In addition to the safety messages contained in this manual, safety decals are affixed to the implement and skid steer. If any part of the operation and safe use of this equipment is not completely understood, consult an authorized dealer for a complete explanation.

If the operator cannot read the manuals for themselves or does not completely understand the operation of the equipment, it is the responsibility of the supervisor to read and explain the manuals, safety practices, and operating instructions to the operator.

Safe operation of equipment requires that the operator wear approved Personal Protective Equipment (PPE) for the job conditions when attaching, operating, servicing, and repairing the equipment. PPE is designed to provide operator protection and includes the following safety wear:

- Protective Eye Glasses, Goggles, or Face Shield
- Hard Hat
- Steel Toe Safety Footwear
- Gloves
- Hearing Protections
- Close Fitting Clothing
- Respirator or Filter Mask (depends on mowing conditions)

⚠ DANGER NEVER use drugs or alcohol immediately before or while operating the skid steer and implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the skid steer or implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the equipment safely. NEVER knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol.

SKID STEER REQUIREMENTS

Skid Steer Requirements and Capabilities

- **ASAE approved Roll-Over Operator Protective Structure and Seatbelt.**
- **Operator Protective Door** Contact authorized skid steer dealer for equipping unit with operator protective door.
- **Skid Steer Warning Equipment**..... Slow Moving Vehicle (SMV) emblem, proper lighting
- **Hitch**..... Standard Universal Quick Mount Hitch
- **Front Auxiliary Hydraulics**.....Equipped with the proper hydraulic output capacity
- **Unit Weight 720 to 800 lbs**..... Skid Steer must be rated for this weight.

ROPS and Seat Belt

The skid steer must be equipped with a Roll-Over-Protective-Structure (ROPS) and seat belt to protect the operator from falling off the skid steer, especially during a roll over where the driver could be crushed and killed. Only operate the skid steer with the ROPS in the raised position and seat belt fastened. Skid steers not equipped with a ROPS and seat belt should have these life saving features installed by an authorized dealer.

▲ WARNING Operate this Equipment only with a Skid steer equipped with an approved operator Roll-Over Protective Structure (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the Skid steer--particularly during a turnover when the operator could be pinned under the Operator Protective Structure.

Operator Protective Door

The skid steer must be equipped with an Operator Front Protective Door. Serious injury or death can result from a thrown object hitting an unprotected operator. Contact the skid steer manufacturer or an authorized dealer for this protective feature.

Skid steer Safety Devices

If transporting or operating the skid steer and implement near a public roadway, the skid steer must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem which are clearly visible from the rear of the unit. Lights and an SMV emblem must be equipped directly on implements if the visibility of the skid steer warning signals is obscured.

Maintain all manufacturer equipped safety shields and guards. Always replace shields and guards that were removed for access to connect, service, or repair the skid steer or implement.

Hitch

The skid steer must be equipped with a compatible standard universal quick mount hitch to connect and operate the mower.

Auxiliary Hydraulics

The skid steer must be equipped with front auxiliary hydraulics. Bigfoot Cutters mowers are designed for use with skid steers having a hydraulic output capacity of between 15 and 25 GPM.

GETTING ON AND OFF THE SKID STEER

Before getting onto the skid steer, the operator must read and completely understand the implement and skid steer operator manuals. If any part of either manual is not completely understood, consult an authorized dealer for a complete explanation.

▲ WARNING Do not mount the Skid steer while the Skid steer is moving. Mount the Skid steer only when the Skid steer and all moving parts are completely stopped.

Boarding the Skid steer

Use both hands and equipped handrails and steps for support when boarding the skid steer. Never use control levers for support when mounting the skid steer. Always seat yourself in the operator's seat and secure the seat belt around you. Only operate the skid steer and implement with the ROPS in the raised position.

Never allow passengers to ride on the skid steer. Extra riders can easily fall off and be seriously injured or killed from falling off and being run over. It is the operator's responsibility to forbid all extra riders.

⚠ DANGER Never allow children or other persons to ride on the skid steer or Implement. Falling off can result in serious injury or death.

⚠ DANGER Never allow children to operate or ride on the skid steer or Implement.

Dismounting the Skid Steer

Before dismounting, park the skid steer and mower on a reasonably level surface, apply the parking brake, idle the engine down, disengage the auxiliary hydraulics, and lower the mower to the ground. Shut down the skid steer engine according to the operator's manual, remove the key, and wait for all motion to completely stop. Never leave the seat until the skid steer, its engine and all moving mower parts are completely stopped.

⚠ DANGER BEFORE leaving the Skid steer seat, always engage the brake and set the Skid steer transmission in parking gear, disengage the auxiliary hydraulics, stop the engine, remove the key, and wait for all moving parts to stop. Place the Skid steer shift lever into a low range or parking gear to prevent the skid steer from rolling. Never dismount a Skid steer that is moving or while the engine is running. Operate the Skid steer controls from the operator seat only.

Use hand rails and steps when exiting the skid steer. Be careful of your step and use extra caution when mud, ice, snow or other matter has accumulated on the steps or hand rails. Use all handrails and steps for support and never rush or jump off the skid steer.

STARTING THE SKID STEER

The operator must have a complete understanding of the placement, function, and operational use of all skid steer controls before starting the skid steer. Review the skid steer operators' manual and consult an authorized dealer for operating instructions if needed.

CONNECTING THE MOWER TO THE SKID STEER

Use extreme caution when connecting the mower to the skid steer. The mower should be securely resting at ground level or on blocks. Keep hands and feet out from under the mower and clear of pinch points between the mower and skid steer.

⚠ DANGER Always shut the Skid steer completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement and Skid steer hitches.

⚠ DANGER Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death.

Connecting the Hitches

NOTICE The mower can only be attached to skid steers equipped with a universal quick mount hitch. The mower attaches to the skid steer by engaging the skid steer mounting plate under the mower hitch top bar and locking hitch pins to secure the skid steer and mower hitches together.

With the engine completely shut down and the parking brake set, rotate the skid steer latch handles upward to the unlatched position. The latch handles must be completely raised to fully retract the hitch lock pins.

Start the skid steer and tilt the hitch mounting plate forward while guiding the mounting plate crest under the attachment saddle of the mower. Raise and roll back the mounting plate until the mower hitch plate is securely seated flat against the skid steer mounting plate.

With the mower fully supported by the skid steer boom, lower the mower to ground level. Slightly tilt the front of the mower head upward about 2" from ground level. Turn off the engine, set the parking brake, and exit the skid steer. Push both latch handles downward to engage the hitch pins into the mower hitch retaining tabs. Visually confirm that the latch pins have extended into and through the hitch retaining tabs. The mower hitch is now securely attached to the mounting plate of the skid steer. Attach the SAFETY CHAIN to the skid steer tie down bar to limit the mower's lift height to not exceed 18". Never extend any part of your body from the operator's area to operate latches or to connect hydraulic lines and safety chains.



Fig. A. Mower D-ring with safety hook securely attached. Fig. B. Safety chain attached securely to skid steer tie down bar.
Safety Chain assembled limiting height not to exceed 18".

PRE-OPERATION INSPECTION AND SERVICE

Before each use, a pre-operation inspection and service of the implement and skid steer must be performed. This includes routine maintenance and scheduled lubrication, inspecting that all safety devices are equipped and functional, and performing needed repairs. Do not operate the implement and skid steer if the pre-operation inspection reveals any condition affecting safe operation. Perform repairs and replacement of damaged and missing parts as soon as noticed. By performing a thorough pre-operation inspection and service, valuable down time and repair cost can be avoided.

⚠ DANGER Always disconnect the auxiliary hydraulic couplers from the Skid steer before performing service on the Implement. Never work on the Implement with the Skid steer auxiliary hydraulics connected. Rotating parts such as blades could turn without warning and cause immediate entanglement, injury or death.

⚠ WARNING Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Serious injury may occur from not maintaining this machine in good working order.

Skid Steer Pre-Operation Inspection/Service

Refer to the skid steer operator's manual to ensure a complete pre-operation inspection and scheduled service is performed according to manufacturer recommendations.

Mower Pre-Operation Inspection/Service

Before each mower use, a complete inspection and service is required to ensure the mower is in a good and safe working condition. Damaged and/or broken parts should be repaired and/or replaced immediately. To ensure the mower is ready for operation, conduct the following.

⚠ DANGER All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Guards and Height Limiting Safety Chain should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact.

⚠ DANGER Replace bent or broken blades with new blades. NEVER ATTEMPT TO STRAIGHTEN, WELD, OR WELD HARDFACING ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES.

- Ensure all decals are in place and legible. Replace missing, worn, and non legible decals.
NOTE: The mower's operator manual and affixed decals contain important instructions on the safe and proper use of the mower. Maintain these to ensure the features on the mower are in good condition, to ensure the information is available to the operator at all times.
- Ensure the mower is securely attached to the skid steer mounting plate and the latch pins are engaged.

- Ensure the cutting height limiter is working correctly.
- Inspect that all bolts and screws are in position and are properly torqued.
- Perform scheduled lubrication as specified in the maintenance section.
- Inspect the gearbox oil level and replenish if needed. A low oil level is a warning sign that the gearbox may be cracked or its seal is damaged and needs to be replaced.
- Inspect blades and blade bolts for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath. Replace damaged, worn, and missing blades as complete sets to maintain rotary balance.
- Ensure carrier hub nuts are tightened with the cotter pin inserted and spread.
- Lastly, secure quick-connect hydraulic hoses.

Cutting Component Inspection

⚠ DANGER Inspect the Blades daily for abnormal wear. **REPLACE BOTH BLADES** on that carrier **IMMEDIATELY** if either blade has:

- Become bent or deformed from its original shape or
- Any cracks are visible, or
- Deep gouges in the blade's surface are present, or
- Gouges or chipped areas in the cutting edge are larger than 1/2"(12.7mm), or
- The material on the leading edge has been worn away by more than 1/2(12.7mm)"

Failure to replace abnormally worn blades may lead to catastrophic failure of the blades and ejection of the broken part with tremendous force which may cause serious bodily injury or death.

Blade Bolt Inspection

⚠ DANGER Inspect the Blade Bolt Heads daily for abnormal wear. **REPLACE BOTH BLADE BOLTS** on the Blades **IMMEDIATELY** if either blade bolts has:

- Visible cracks or
- If the recessed area on blade bolt is worn off or
- If Blade Bolt has gouges or chipped areas.

Failure to replace abnormally worn blade bolts may lead to catastrophic failure of the blades and ejection of the broken part which may cause serious bodily injury or death. Always replace Blade Bolts with new bolts whenever replacing the Blades.

DRIVING THE SKID STEER AND MOWER

Safe skid steer transport requires the operator to possess a thorough knowledge of the model being operated and precautions to take while driving with a front attachment. Ensure the skid steer has the capacity to handle the weight of the mower and the skid steer operating controls are set for safe transport.

⚠ WARNING Operate only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Skid steer and Implement and how it handles before transporting on streets and highways. Make sure the Skid steer steering and brakes are in good condition and operate properly.

Before operating the skid steer and implement, determine the safe transport speeds for you and the equipment. Make sure you abide by the following rules:

- Test the skid steer at a slow speed and increase the speed slowly. Apply the brakes smoothly to determine the stopping characteristics of the skid steer and implement. As you increase the speed of the skid steer the stopping distance increases. Determine the maximum safe operating speed for you and this equipment.
- Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that it is safe to operate at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the skid steer and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground.
- Only operate the skid steer and implement at the speeds that you have determined are safe and which allow you to properly control the equipment.

Be aware of the operating conditions. Do not operate the skid steer with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the skid steer's flashing warning lights and reduce your speed.

Starting the Skid Steer

Refer to the skid steer operator's manual for proper starting procedures. Consult an authorized dealer if the starting procedure is unclear. Make sure that the skid steer parking brake is set, its transmission is in neutral, the mower is lowered to the ground, and the auxiliary hydraulic remote lever is disengaged before starting the skid steer. Only start the skid steer when properly seated in the operator's seat with the seat belt securely fastened.

Driving the Skid Steer

Start off driving at a slow speed and gradually increase your speed while maintaining complete control of the skid steer and mower. Do not operate the skid steer at speeds that cannot be safely handled or which will prevent stopping quickly during an emergency.

Do not raise or tilt the mower to a height that obstructs the operator's visibility to the front of the mower.

Perform turns with the skid steer and mower at slow speeds to determine how the skid steer handles a turn. Determine the safe speed to maintain proper control of the skid steer when making turns. When turning with an attached mower, the overall working length of the unit is increased. Allow additional clearance for the mower when making turns.

To avoid overturns, drive the skid steer with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Use extreme caution when operating on steep slopes. Travel at a slow speed when going downhill. DO NOT coast or free-wheel downhill.

When operating the skid steer and mower across slopes and inclines, through ditches, and other uneven terrain conditions, it is important to maintain sufficient deck to ground clearance. Blade contact with the ground may cause soil, rocks and other debris to be thrown out from under the mower resulting in possible injury and/or property damage. Blades hitting the ground also produce a severe shock load on the mower and to the mower blades resulting in possible damage and premature wear.

OPERATING THE SKID STEER AND MOWER

THE OPERATOR MUST COMPLETELY UNDERSTAND HOW TO OPERATE THE SKID STEER AND MOWER AND ALL CONTROLS BEFORE ATTEMPTING TO MOW. The operator must read and understand the Safety and Operation Sections of the mower and skid steer operator's manuals. These manuals must be read and explained to any operator who cannot read. Never allow someone to operate the mower and skid steer without complete operating instructions.

Before starting any mowing operation, the operator must become familiar with the area to be mowed and any obstacles and hazards contained within to ensure safety to the operator, bystanders, and equipment. Special attention should be paid to foreign debris, rough terrain, steep slopes, passers-by and animals in the area.

▲ WARNING Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing.

▲ WARNING Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect the cutting area for such objects before mowing, and remove them from the site. Never allow the cutting blades to contact such items.

Foreign Debris Hazards

Before mowing, inspect the area to make sure there are no foreign objects that the mower blades could hit or become entangled with. Remove all foreign objects and debris. If objects are too big to remove, mark them clearly and be sure to prevent the mower blades from contacting them.

If you hit a solid object or foreign debris, stop the mower and skid steer at once. Immediately idle the engine speed and disengage the auxiliary hydraulics to stop the mower blades from turning. Wait for all mower rotating motion to stop, then raise the mower and move the skid steer and implement off the object. Inspect the area and remove, or mark the location of the debris. Inspect the condition of the

mower and make any needed repairs immediately. Make sure the blades are not damaged and the carrier is balanced before resuming operation.

Bystander/Passers-by Precautions

If a bystander comes within 100 yards of the skid steer while the mower is being operated, stop the skid steer at once, idle the engine and stop the mower. Do not engage the mower again until all bystanders are well past the 100 yard distance.

⚠ DANGER Rotary Mowers are capable under adverse conditions of throwing objects for great distances (300 feet or more) and causing serious injury or death. Follow safety messages carefully.

NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected, closely with any remaining debris being removed, and mowed again at desired final height. (This will also reduce power required to mow, reduce wear and tear on the mower drive train, spread cut material better, reduce streaking, and make the final cut more uniform).

Engaging the Mower

Before engaging the mower, make certain that the area is clear of bystanders and passers-by. Refer to the skid steer operator's manual to determine the procedure to engage the front auxiliary hydraulics.

If you hear unusual noises or feel abnormal vibrations, disengage the mower immediately. Inspect the mower to determine the cause of the noise or vibration and repair the problem immediately.

⚠ DANGER Use extreme caution when raising the Mower above ground level. Stop the Blades from turning when the Mower is raised and passers-by are within 100 yards. Raising the Mower exposes the Cutting Blades which creates a potentially serious hazard and can cause serious injury by objects thrown from the Blades or by contact with the Blades.

⚠ WARNING Do not put hands or feet under mower decks. Blade Contact can result in serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up.

Operating Speed and Ground Speed

Ground speed for mowing will depend upon the height, type, and density of vegetation to be cut.

Recommended speed for efficient mower performance is between 2 and 5 mph. Operate the mower at its full rated speed to maintain blade speed for a clean cut. Refer to the skid steer operator's manual and its instrument panel for the engine speed required to provide the rated operating speed. Make sure that the mower is operating at its full rated speed before entering the vegetation to be cut. If it becomes necessary to temporarily regulate engine speed, increase or decrease the throttle gradually.

Ground speed is achieved by transmission speed and not by the engine speed. The operator may be required to experiment to determine the best travel speed which provides the best performance from the mower and most efficient skid steer operation. As the severity of cutting conditions increase, the ground speed should be decreased while maintaining the rated mower operating speed.

⚠ WARNING Mow at the speed that you can safely operate and control the Skid steer and Mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut.

Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided.

Operating the Mower

Only operate the mower from the skid steer operator's seat with the seatbelt securely fastened.

Sharp blades will produce a cleaner cut and require less power. Travel at a speed that allows the mower sufficient time to cut through the vegetation and maintain the mower operating speed to prevent overloading the mower and skid steer. Choose a driving pattern that provides the maximum pass length and minimizes turning.

Avoid mowing in the reverse direction when possible. In situations where the mower must be backed to access areas to be cut, make sure there are no persons or other foreign debris behind the mower before mowing in reverse. When mowing in reverse, operate the skid steer and mower at a reduced ground speed to ensure skid steer and mower control is maintained.

⚠ WARNING Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 yards in front and to the sides of the Skid steer and mower. Make sure that you can clearly see and identify passers-by, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see these types of items discontinue mowing.

⚠ WARNING Avoid mowing in the reverse direction if possible. The skid steer's operator protective structure obstructs the operator's visibility of the unit's path when traveling in the reverse direction. Stay alert and watch for trees, low hanging limbs, power lines, and other overhead obstacles and solid ground objects while you are operating. Use care to avoid hitting these items.

Large, dense, or wet vegetation may need to be mowed in two or more passes to achieve a uniform cut. In such conditions, tilt the cutting height opening up to 18" on the first pass. Then lower the mower angle to the desired height and mow the vegetation a second time. If possible, select a mowing pattern that is at a 90 degree angle to the first pass to reduce streaking and provide a more even cut.

Shutting Down the Mower

To shut down the mower, first bring the skid steer to a complete stop. Then slow down the mower by reducing the engine speed before disengaging the auxiliary hydraulics.

Park the skid steer on a level surface, place the transmission in park or neutral and apply the parking brake, lower the attached mower to the ground, shut down the engine, remove the key, and wait for all motion to come to a complete stop before exiting the skid steer.

DISCONNECTING THE MOWER FROM THE SKID STEER

⚠ DANGER Always shut the Skid steer completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement and Skid steer hitches.

Before disconnecting the mower, the auxiliary hydraulics must be disengaged and blade rotation at a complete stop. Lower the mower to the ground. If the mower is not resting securely on the ground, block the mower up securely before attempting to disconnect it from the skid steer hitch.

1. Completely shut down the mower and skid steer and secure the skid steer in position by applying the parking brake. Wait for all movement to come to a complete stop before exiting the skid steer. Never extend any part of your body from the operator's area to operate latches or to disconnect hydraulic lines or the height limiting safety chain.
2. Disconnect the hydraulic lines from the skid steer. Do not let the hydraulic lines fall into mud or dirt, which can contaminate the connectors.
3. Disconnect the Safety Chain.
4. Pull the latching handles upward to release the latch pins from the mower hitch tabs.
5. Board the skid steer, fasten your seatbelt, and start the engine. Tilt the mounting plate forward and back away from the mower at the same time. The mower should be released from the skid steer at this point.

⚠ DANGER Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death.

MOWER STORAGE

Properly preparing and storing the mower at the end of the season is critical to maintaining its appearance and to help ensure years of dependable service. The following are suggested storage procedures:

1. Thoroughly clean all debris off the mower to prevent damage from rotting grass and standing water.
2. Lubricate all mower grease points and fill spindle oil level as detailed in the maintenance section.
3. Check the mower for worn and damaged parts. Perform repairs and make replacements immediately so that the mower will be ready for use at the start of the next season.
4. Store the mower in a clean, dry place with the mower housing resting securely on blocks or at ground level.

5. Use the provided hose end holders to keep the hydraulic hose ends from sitting in water, dirt and other contaminants; or connect the mower's hydraulic lines together to prevent dirt and other contamination from entering the hydraulic system.
6. Use spray touch-up enamel where necessary to prevent rust and to maintain the appearance of the mower.

⚠ DANGER Never allow children to play on or around Skid steer or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others.

MAINTENANCE SECTION

LUBRICATION INFORMATION

Before operating the mower, make sure it is properly lubricated and thoroughly inspected. Only a minimum of time and effort is required to regularly lubricate and maintain this machine to provide long life and trouble free operation.

Do not let excess grease collect on or around parts, particularly when operating in sandy areas. Severe or unusual conditions may require more frequent lubrication.

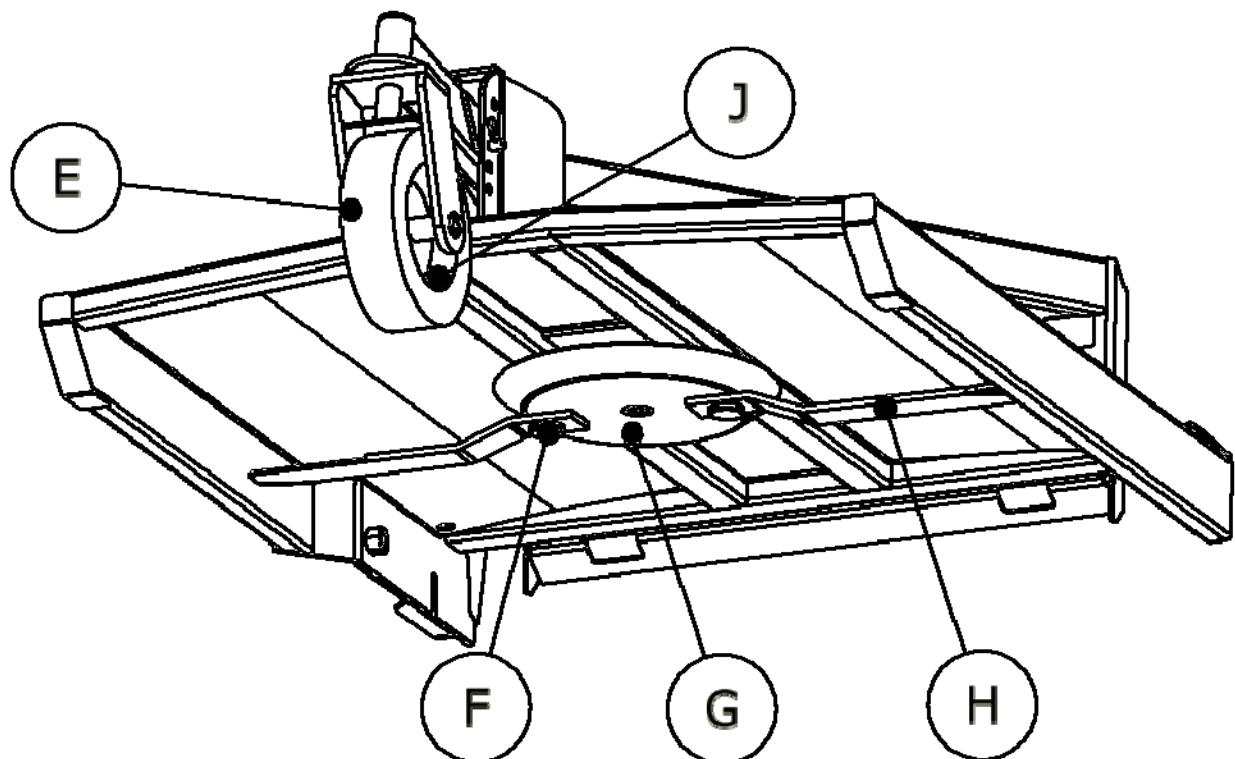
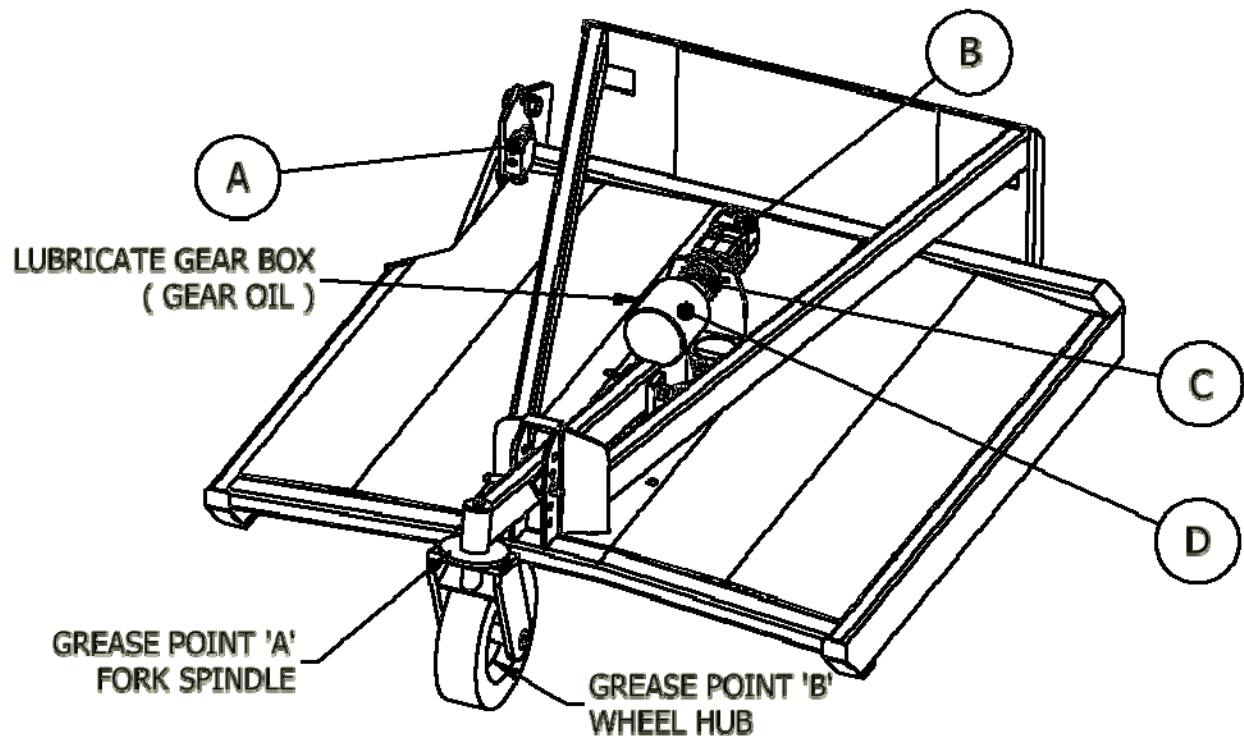
LUBRICATION SCHEDULE

Apply 2 to 3 pumps of grease to the lubrication points 'A' and 'B' as shown in the following diagrams, using a multipurpose grease (ISO VG 220) every 50 hours.

GEARBOX LUBRICATION

The initial oil should be changed after 50 hours of operation of the unit under operating loads. Additional oil changes should be performed every 1000 hours or each year, whichever comes first. The oil should be to the level of the lower, level check hole. The filler/breather plug is on the top of the gearbox. Fill through this plug using 85W-140 Multi-Purpose Gear Oil.

NOTE: Overfilling the Gearbox will cause pressure to build up and cause Oil Seals to leak.



PARTS LIST		
ITEM	QTY	DESCRIPTION
A	1	CUT HEIGHT LIMITER (DISCONTINUED)
B	1	HYRDAULIC MOTOR
C	1	CHAIN COUPLING
D	1	GEAR BOX
E	1	LAMINATED WHEEL
F	2	BLADE BOLT
G	1	STUMP JUMPER (BLADE CARRIER)
H	2	BLADE
J	1	CAST HUB

HYDRAULIC LINES, COUPLERS, & ADAPTERS

Keep all hoses and adapters tight. Repair any leaks immediately. Do not over tighten hose end fittings. Tighten to specifications only.

BLADE SERVICING

Inspect 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.

NOTICE When sharpening blades, grind each blade the same amount to maintain balance. The difference in blade weights should not exceed 1 ounce. Unbalanced blades will cause excessive vibration which can damage spindle bearings. Vibration may also cause structural cracks in the mower.

⚠ WARNING Only use original equipment blades on this mower. They are made of special heat-treated alloy steel. Substitute blades may not meet specifications and may fail in a hazardous manner that could cause injury.

BLADE SHARPENING

⚠ DANGER Replace bent or broken blades with new blades. NEVER ATTEMPT TO STRAIGHTEN, WELD, OR WELD HARDFACING ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES.

Always sharpen both blades at same time to maintain balance. Always sharpen blades by grinding. DO NOT heat and pound out edge. Do not sharpen blade to a razor edge, but leave a 1/16" blunt edge. Do not sharpen back side of blade on a single sided blade.

⚠ WARNING Avoid personal injury. Always block the mower up to prevent it from falling when the blades and/ or carrier are being serviced.

⚠ WARNING Avoid personal injury. Always wear safety glasses and face protection when grinding blades.

BLADE REMOVAL

To remove blades for sharpening or replacement, remove the driveline guard on the deck of the mower near the hydraulic motor. Remove the lock nut from the blade bolt.

NOTE: Inspect lock nut after removal and replace if threads are damaged.

Always replace nut when replacing blade bolt. When installing blades be sure and check blade bolt pivot diameter for wear. Replace bolt if worn. Tighten lock nut to 800 ft. lbs.

⚠ WARNING Avoid personal injury. Blade and/or blade carrier removal should be done only with the skid steer engine shut off, key removed, in park, parking brake on, the auxiliary hydraulics are disengaged, and the mower securely blocked up.

BLADE CARRIER REMOVAL

Blade carrier removal and inspection should only be attempted by a service professional.

⚠ DANGER Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death.

TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of skid steer operators:

REQUIRED OF THE OWNER:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seat belts that meet the requirements of this paragraph of this Standard and SAE J4C; and
3. Ensure that each employee uses such Seat belt while the skid steer is moving; and
4. Ensure that each employee tightens the Seat belt sufficiently to confine the employee to the protected area provided by the ROPS

REQUIRED OF THE OPERATOR:

1. Securely fasten the seat belt of the skid steer has a ROPS.
2. Where possible, avoid operating the skid steer near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going - especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the skid steer smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by the skid steer manufacturer.
9. When the skid steer is stopped, set brakes securely and use park lock, if available.

ALL DESIGN SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



LIMITED WARRANTY 2019

FOR TRI-L MANUFACTURING, INC. PRODUCTS

A. GENERAL PROVISIONS

The warranties described below are provided by Tri-L Manufacturing, Inc. ("Tri-L") to the original purchasers of new products from Tri-L or an authorized dealer. Under these warranties, Tri-L will repair or exchange, at its option, any covered product (or component part) which is found to be defective in material or workmanship during the applicable warranty term. Warranty service must be performed by Tri-L. Warranty service will be performed without charge to the purchasers for parts or labor. Purchaser will be responsible, however, for any service call and/or transportation of product to and from Tri-L's place of business, and for any service and/or maintenance not directly related to any defect covered under the warranties below. These warranties are non-transferrable and non-assignable.

B. WHAT IS WARRANTED AND FOR HOW LONG

Tri-L's products are warranted for defective materials and workmanship for a period of six months from the date of purchase. Tri-L shall determine, in its sole discretion, whether a product is defective. Tri-L is not responsible for damage to its products which occur during delivery from Tri-L to purchaser.

C. WHAT IS NOT WARRANTED

Tri-L is not responsible for the following: (1) Used products; (2) Any product that has been altered or modified in ways not approved by Tri-L; (3) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage, accident, improper assembly, and use of the product for other than the intended design.

D. SECURING WARRANTY SERVICE

To secure warranty service, the purchaser must (1) report the product defect to Tri-L within 24 hours from discovery of the defect, within the applicable warranty term; (2) take photographs of the product and submit those photographs to Tri-L for review; (3) not use or transport the product until authorized to do so by Tri-L; and (4) make the product available to a Tri-L representative within a reasonable period of time. The toll free number for reporting a defective product is 1-800-759-4159.

E. LIMITATION AND DISCLAIMER OF IMPLIED WARRANTIES AND REMEDIES

To the extent permitted by law, Tri-L limits its warranty to defects in material and workmanship and disclaims all other warranties of any kind whatsoever, express, implied or statutory. Tri-L makes no warranties, representations or promises as to the quality, performance or freedom from defect other than covered by this limited warranty.

ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH EXCEED THE STATED LIMITED WARRANTY, ARE HEREBY DISCLAIMED BY TRI-L AND EXCLUDED FROM THIS LIMITED WARRANTY. THE PURCHASER'S ONLY REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ARE THOSE SET FORTH ON THIS PAGE. IN NO EVENT WILL TRI-L BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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