

SIDE ROTARY ASSEMBLIES

CNH T5000 Ford TL 80-100A CAB / WOC

Current as of 01/18/2012

PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

Tiger Corporation

3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900 www.tiger-mowers.com

TO THE OWNER / OPERATOR / DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!! Read the safety messages on the implement and shown in this manual. Observe the rules of safety and use common sense!

READ AND UNDERSTAND THIS MANUAL! Non-English speaking operators will need to GET THE MANUAL TRANSLATED as needed!



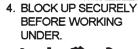
FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.









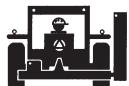




- Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
 Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children
- 2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.
- 3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
 Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.
- 4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding
- 5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
- Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.
- 6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.
- 7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.
- 8. Before dismounting, secure implement in transport position or lower to ground.
 Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
 Never mount or dismount a moving vehicle. Crushing from runover may cause serious injury or death.



6. USE SMV. LIGHTS. & REFLECTORS.



7. DO NOT OPERATE WITH CUTTER OR WING RAISED.



8. DO NOT MOUNT OR **DISMOUNT WHILE** MOVING

Warranty Information: Read and understand the complete Warranty Statement found in this manual. Fill out the Warranty Registration form in full and return it within 90 days. Make certain the Serial Number of the machine is recorded on the Warranty Card, and form that you retain.

FORWARD

This manual contains information about many features of the Tiger mowing and roadside maintenance equipment. Some of these include: Safety precautions, Assembly instructions, Operations, Maintenance and Parts. This manual will also assist you in the proper break-in, daily care, and troubleshooting of your new mower.

We recommend that you read carefully the entire manual before operating the unit. Also, time spent in becoming fully acquainted with its performance features, adjustments, and maintenance schedules will be repaid in a long and satisfactory life of the equipment.

Troubleshooting - Please, before you call, help us to help you!

Please look at the equipment to observe what is happening, then:

- Classify the problem
 - Hydraulic, electrical or mechanical Read the trouble shooting section
 - Tractor or Truck chassis Contact vehicle dealer

•	 If unable to correct the problem yourself, 	contact your lo	cal Tiger D	ealer at	fter
	gathering:				
	 Machine model 				

• Machine model	
Serial number _	
Dealer name	

• Detailed information about the problem including results of troubleshooting

Attention Owner / Operator / Dealer: It is your obligation to read, and understand, the warranty information section located at the back of this manual denoting that the purchaser understands the safety issues relating to this machine and has received and will read a copy of this manual.

If at any time, you have a service problem with your Tiger mower, Contact your local dealer for service and parts needed.

MANUFACTURED BY:	DISTRIBUTED BY:
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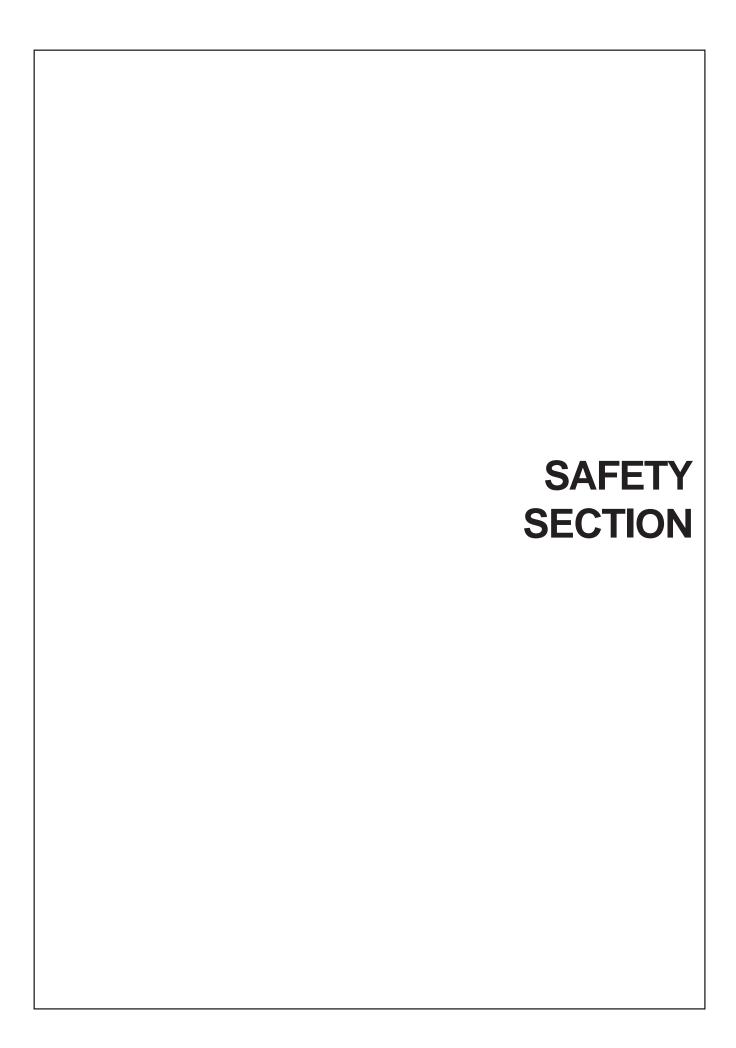


This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

When you see this symbol, read and follow the associated instructions carefully or personal injury or damage may result.

Tiger is a registered trademark.





General Safety Instructions and Practices

A safe and careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner / operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this mower. This equipment should only be operated by those persons who have read the Manual, who are responsible and trained, and who know how to do so safely and responsibly.



The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!" The symbol and signal word are intended to warn the owner / operator of impending hazards and the degree of possible injury when operating this equipment.

Practice all usual and customary safe working precautions and above all -- remember safety is up to <u>YOU</u>! Only <u>YOU</u> can prevent serious injury or death from unsafe practices.



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



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



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



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

NOTE: Identifies points of particular interest for more efficient or convienient operation or repair. (SG-1)

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. (SG-2)



PELIGRO!



Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medida de seguridad. (SG-3)



i LEA EL INSTRUCTIVO!

DANGER!



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel too operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)



WARNING!



Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. $({\rm SG-5})$

WARNING!



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)



WARNING!



Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)



WARNING!

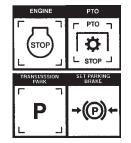


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

DANGER!



BEFORE leaving the tractor seat, always engage the brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only.



Side Rtry Safety Section 1-3

DANGER!

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



(SG-10)





Never allow children to operate or ride on the Tractor or Implement.

(SG-11



WARNING!



Do not mount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped.



DANGER!



Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death. Read the Tractor operators manual for proper starting instructions. (SG-13)



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. $_{\rm (SG-14)}$



DANGER!



Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. Highpressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



WARNING!



The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items thrown by the equipment. (SG-16)







CAUTION!



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PER-MANENT HEARING LOSS! Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. (SG-17)



WARNING!

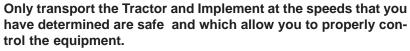


Transport only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.



Before transporting the Tractor and Implement, determine the safe transport speeds for you and the equipment. Make sure you abide by the following rules:

- Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this Equipment.
- 2. 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 tractor and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground.



3. Be aware of the operating conditions. Do not operate the Tractor 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 Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you andwatch out for the other guy. (SG-19)



WARNING!



Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running. Make sure the tractor engine is off before working on the Implement.

(SG-20)





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. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order. $_{\rm (SG-21)}$



WARNING!



Always read carefully and comply fully with the manufacturers instructions when handling oil, solvents, cleansers, and any other chemical agent. $_{(SG-22)}$



DANGER!



Never run the tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health.

(SG-23)

DANGER!



KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. (SG-24)



DANGER!



Never allow children to play on or around Tractor 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. (SG-25)

DANGER!



DO NOT allow any person under a folded wing unless wing is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-3)



Side Rtry Safety Section 1-6

CAUTION!



On a fully-assembled unit, do not remove the Wing Retaining Strap until hoses are attached to the tractor and the Wing Cylinders are filled with oil. Lower the Wings slowly and carefully. Keep bystanders away during operations. (STII-5)

DANGER!



NEVER use drugs or alcohol immediately before or while operating the Tractor 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 Tractor 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. (SG-27)



DANGER!



Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. (SG-29)

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 tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see this type of items discontinue mowing. (SGM-1)

DANGER!



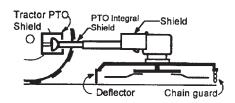
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care is taken to insure the safety of the operator, bystanders, or passersby in the area. Do not operate this machine with anyone in the immediate area. Stop mowing if anyone is within 100 yards of mower. (SGM-2)



DANGER!



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields , and Retractable Door Shields 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. $_{\rm (SGM-3)}$



DANGER!



The rotating parts of this machine have been designed and tested for rugged use. However, the blades could fail upon impact with heavy, solid objects such as metal guard rails and concrete structures. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles. (SGM-4)

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. $_{(\mathrm{SGM-5})}$



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. Remove any like object from the site. Never allow the cutting blades to contact such items. (SGM-6)

WARNING!



Mow at the speed that you can safely operate and control the tractor 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. (SGM-7)

WARNING!



Avoid mowing in reverse direction when possible. Check to make sure there are no persons behind the mower and use extreme care when mowing in reverse. Mow only at a slow ground speed where you can safely operate and control the tractor and mower. Never mow an area that you have not inspected and removed debris or foreign material. (SGM-8)

WARNING!



Do not put hands or feet under mower decks. Blade Contact can result serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-9)



DANGER!



Replace bent or broken blade with new blades. NEVER ATTEMPTTO STRAIGHTEN OR WELD ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES. (SGM-10)

WARNING!



Do not mow with two machines in the same area except with Cab tractors with the windows closed. (SGM-11)

DANGER!



Rotary Mowers are capable under adverse conditions of throwing objects for great distances (100 yards or more) and causing serious injury or death. Follow safety messages carefully.

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UN-

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:

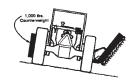
- -Front and Rear Deflectors are installed and in good, working condition;
- -Mower Head is running close to and parallel to the ground without exposed Blades;
- -Passersby are outside the existing thrown-object zone;
- -All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.

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 removed, and mowed again at desired final height. (SBM-1)

WARNING!



Each Rear Wheel must have a minimum of 1,000 pounds contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you need assistance with Couterweight Procedure. (SFL-3)



WARNING!



Do not operate Mower if excessive vibration exists. Shut down PTO and the Tractor engine. Inspect the Mower to determine the source of the vibration. If Mower blades are missing or damaged replace them immediately. Do not operate the mower until the blades have been replaced and the Mower operates smoothly. Operating the Mower with excessive vibration can result in component failure and broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the Mower to be operated with blades missing. (SFL-4)

WARNING!



Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-7)



DANGER!



Use extreme caution when raising the Mower head. Stop the Blades from turning when the Mower Head is raised and passersby are within 100 yards. Raising the Mower head 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.

(SBM-2)

WARNING!



Never leave the Tractor and Implement unattended while the Implement is in the lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing. To properly park the implement when disconnecting it from the tractor, lower the stand and put the retaining pin securely in place, or put a secure support under the A-Frame. Lower the implement carefully to the ground. Do not put hands or feet under lifted components. (S3PT-1)

WARNING!



Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to starting any maintenance or repair work. (SBM-6)

DANGER!



Always disconnect the wire leads from the mower valve solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on without warning and cause immediate dismemberment, injury or death. (SBM-12)



WARNING!



Use extreme care when lowering or unfolding the implement's wings. Make sure no bystanders are close by or underneath the wings. Allow ample clearance around the implement when folding or unfolding the wings. Use extreme caution around buildings or overhead power lines.

(S3PT-

5)

WARNING!



Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Implement on the ground or securely blocked up, disengage the PTO, and turn off the tractor engine. Push and pull the Remote Cylinder lever in and out several times prior to starting any maintenance or repair work. (S3PT-9)



DANGER!



This Implement is wider than the Tractor. Be careful when operating or transporting this equipment to prevent the Implement from running into or striking sign posts, guard rails, concrete abutments or other solid objects. Such an impact could cause the Implement and Tractor to pivot violently resulting in loss of steering control, serious injury, or even death. Never allow the Implement to contact obstacles. (S3PT-12)

DANGER!



The flail cutter shaft is designed for standard rotation (same rotation as the tractor wheel during forward travel). **Never operate the cutter shaft in the reverse rotation.** Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.



Side Rtry Safety Section 1-10

WARNING!



The rotating parts of this machine continue to rotate even after the Tractor has been turned off. The operator should remain in his seat for 60 seconds after the brake has been set, the PTO disengaged, the tractor turned off, and all evidence of rotation has ceased. (SBM-5)

"Wait a minute...Save a life!"

WARNING!



Engine Exhaust, some of its constituents, and certain components contain or emit chemicals known to the state of California to cause cancer and birth or other reproductive harm.

WARNING!

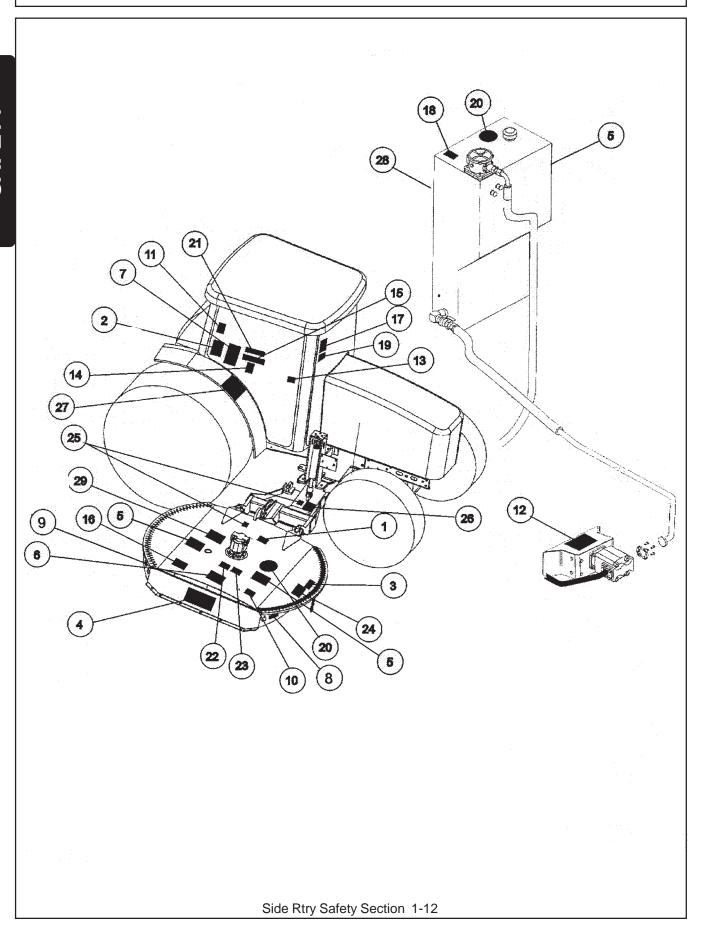


Battery post, terminals and related accessories contain lean and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

Tiger mowers use balanced and matched system components for blade carriers, blades, cutter-shafts, knives, knife hangers, rollers, drive-train components and bearings. These parts are made and tested to Tiger specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void mower warranties and present a safety hazard. Use genuine Tiger mower parts for economy and safety.



In addition to the design and configuration of this Implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the Tractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the Tractor and Equipment. (SG-18)



ITEM	PART NO.	QTY.		DESCRIPTION
1	22839	1	INSTRUCT	Don Not Lubricate With Automatic Grease Gun
2	22840	1	WARNING	Foreign Objects Contacted
3	24028	1	WARNING	Inspect Rear Flap
4	31522	1	LOGO	TIGER MOWERS
5	31523	3	LOGO	TIGER MOWERS
6	42350	1	DANGER	Cuttershaft Direction
7	33743	1	INSTRUCT	Mowing Safet Tips
8	42399	1	REFLECT	Red Reflector
9	42400	1	REFLECT	Amber Reflector
10	6T3217	1	DANGER	Keep Hands and Feet Clear
11	6T3219	1	WARNING	Read Operators and Maintenance Manuals
12	6T3220	1	INTRUCT	Lubricate Pump, Driveshaft Daily
13	6T3221	1	CAUTION	Lubricate Spindle When Mower and Tractor Off
14	6T3222	1	INSTRUCT	Engine will not start when mower is engaged
15	1059	1	INSTRUCT	Mower Positions
16	6T3224	1	DANGER	Stay Clear, Discharge Opening
17	6T3230	1	WARNING	Don't Operate with Bystanders in Area
18	6T3233	1	CAUTION	DONOT Start or Run with Valves closed
19	6T3234	1	CAUTION	Check Crankshaft Adapter Daily
20	6T3236	1	LOGO	Made In USA
21	6T3243	1	WARNING	Replace Bolts and Locknut if damaged
22	6T3249A	1	INSTRUCT	Grease Inst. Cuttershaft Bearing
23	6T3261	1	INSTRUCT	Grease Inst. Ground Roller Bearing
24	TB1011	1	WARNING	Do Not Work Mower with Safety Shiel Removed
25	02962764	1	WARNING	Pinch Point
26	02965262	1	WARNING	Hydraulic Hose Repair
27	02967827	1	DANGER	Multi Warn Messages
28	34852	1	INSTRUCT	Hydraulic Specifications
29	00756059	1	WARNING	Check Hydraulic Hose with Cardboard

DO NOT LUBRICATE WITH AUTOMATIC GREASE GUN. GREASE WITH HAND GREASE GUN ONLY.

P/N22839

PART NO. LOCATION

22839 MOWER DECK



22840 INSIDE OF CAB

A WARNING

INSPECT REAR FLAP FREQUENTLY
TO BE SURE IT IS IN SAFE WORKING
CONDITION. DO NOT OPERATE MOWER
WITH FLAP REMOVED OR WORN.

24028

24028 MOWER DECK



10"X5.5" 31522 MOWER DECK

18.25"X10" 31523 HYDRAULIC TANK



MOWING SAFETY TIPS Read & understand the Operator's Manual.

Keep all shields and guards in place. Make sure equipment is in proper working order.

Remove all foreign debris.

minimum of 300 feet away.

objects or foreign material. Never approach rotating elements.

before leaving seat.

Wear Your Seat Belt.

PART NO. **LOCATION**

42350 **MOWER DECK**

■Never attempt to get off or on a moving truck. Never allow riders on truck or equipment. Only start the truck from the seat with the key. Always inspect the area before mowing. Always keep bystanders and coworkers a Never allow the mower blades to contact solid Disengage mower head. Shut down Aux.

33743 **INSIDE OF CAB**

5

Engine place transmission in park, set parking brake, shut off truck engine, and remove key. Wait till all rotating motion has stopped

> 42399 MOWER DECK

> 42400 MOWER DECK





PART NO. LOCATION

6T3217 MOWER DECK



6T3219 INSIDE OF CAB

6T3220 FRONT PUMP MOUNT

A CAUTION

LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. WITH MOWER AND TRACTOR OFF, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING.

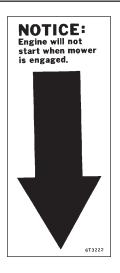
NOTE: SEE OPERATORS MANUAL FOR SUBSTITUTE LUBRICANT AND MORE DETAILED INSTRUCTIONS.

6T3221

29-6T3221

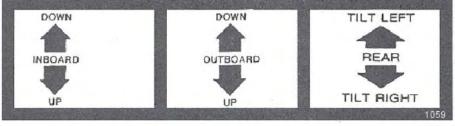
Side Rtry Safety Section 1-16

6T3221 INSIDE OF CAB



PART NO. LOCATION

6T3233 INSIDE OF CAB



6T3234 INSIDE OF CAB

1059



6T3236 MOWER DECK

WARNING

DO NOT OPERATE THIS EQUIPMENT WITH BYSTANDERS IN THE AREA!

ROTARY MOWERS HAVE THE INHERENT ABILITY TO THROW DEBRIS CONSIDERABLE DISTANCES WHEN KNIVES ARE ALLOWED TO STRIKE FOREIGN OBJECTS. OPERATOR CAUTION MUST BE TAKEN OR SERIOUS INJURY CAN RESULT.

6T3243 INSIDE OF CAB

Side Rtry Safety Section 1-17

PART NO. LOCATION

6T3233 HYDRAULIC TANK

A CAUTION

DO NOT START OR RUN WITH VALVES CLOSED. (SERIOUS DAMAGE WILL OCCUR)

6T-3233

A CAUTION

CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY RESULT FROM IMPROPER MAINTENANCE.

6T3234

6T3234 INSIDE OF CAB



6T3236 MOWER DECK HYDRAULIC TANK

> 6T3243 INSIDE OF CAB

PART NO. LOCATION

GREASING INSTRUCTIONS

GROUND SHAFT BEARINGGREASE EVERY 8 HRS. OR DAILY

NOTE: If unusual environmental conditions exist; extreme temperatures, moisture, or contaminants more frequent lubrication is required.

6T3249A

6T3249A MOWER DECK

GREASING INSTRUCTIONS

GROUND ROLLER BEARINGGREASE EVERY 8 HRS. OR DAILY

NOTE: If unusual environmental conditions exist; extreme temperatures, moisture, or contaminants more frequent lubrication is required.

6T3261

6T3261 MOWER DECK



DO NOT OPERATE MOWER
WITH SAFETY SHIELD REMOVED.

TB1011 MOWER DECK



02962764 MOWER DECK DRAFT BEAM

PART NO. LOCATION

02965262 DRAFT BEAM



FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.









- Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse abuse, and accidents. Practice before operating in a confined area or near passersby.
 Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
- 2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious of ury or death from being run over by tractor or mower or contact with rotating blades.
- Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
 Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.
- 4 Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding.
- 5 Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
 Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.
- 6 Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.
- Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.
- Before dismounting, secure implement in transport position or lower to ground.
 Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
 Never mount or dismount a moving vehicle. Crushing from runover may cause serious injury or death.







7. DO NOT OPERATE WITH



02967827 CAB FENDER

Side Rtry Safety Section 1-20

0

SAFETY

0

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Tiger Corporation

800-843-6849 www.tiger-mowers.com

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics Cold Temperatures 0°F Start-up Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobilfluid® 424 Mobil DTE® 25 Mobil DTE® 18M
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Drive Shaft Coupler (Rotary and Flail) Drive Shaft Yoke, U - Joint and Stub Shaft	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Tiger Part #25351

For Mobil product information, availability, or technical information, call 1-800-662-4525.

Tiger PN 34852

34852 HYDRAULIC TANK



USE PAPER OR CARDBOARD TO CHECK FOR LEAKS. **NEVER USE YOUR HAND**. IF OIL PENETRATES SKIN, GANGRENE OR OTHER SERIOUS INJURY COULD OCCUR.

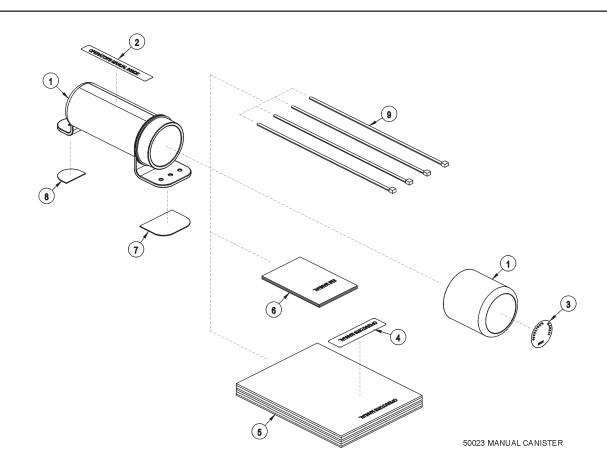
GET IMMEDIATE MEDICAL ATTENTION.

See Operator's Manual.

00756059



00756059 MOWER DECK



ITE	M PARTNO.	QTY.	DESCRIPTION
	50023	AVAIL	MANUAL CANISTER COMPLETE
1	00776031	1	Round Manual Canister
	33997	1	Decal, Sheet, Manual Canister
2		*	Decal
3		*	Decal
4		*	Decal
5	*	AVAIL	Specification Product Manual
6	33753	1	EMI Safety Manual
7	34296	1	Front Adhesive Pad
8	34297	1	Rear Adhesive Pad
9	6T1823	4	Zip Tie 14" Long

NOTE:

The manual canister can be bolted, zip tied or adhered to a variety of surfaces. Locate a protected area within the view of the operator. Then select an installation method and attach the canister. **CAUTION-AVOID DRILL-ING HOLES INTO UNKNOWN AREAS**, wires and other parts may be located behind these areas. When adhering the canister to a surface, thoroughly clean that surface before installing the canister.

FEDERAL LAWS AND REGULATIONS

This section is intended to explain in broad terms the concept and effect of federal laws and regulations concerning employer and employee equipment operators. This section is not intended as a legal interpretation of the law and should not be considered as such.

Employer-Employee Operator Regulations

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

"...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources..."

DUTIES

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.
- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Regulations

OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved."

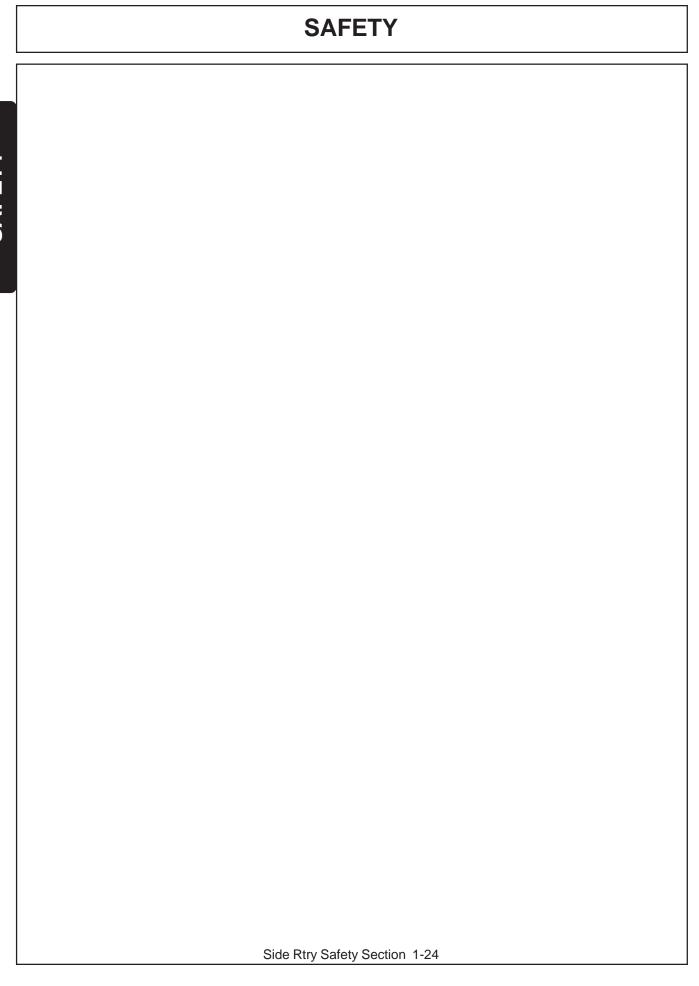
Employer Responsibilities:

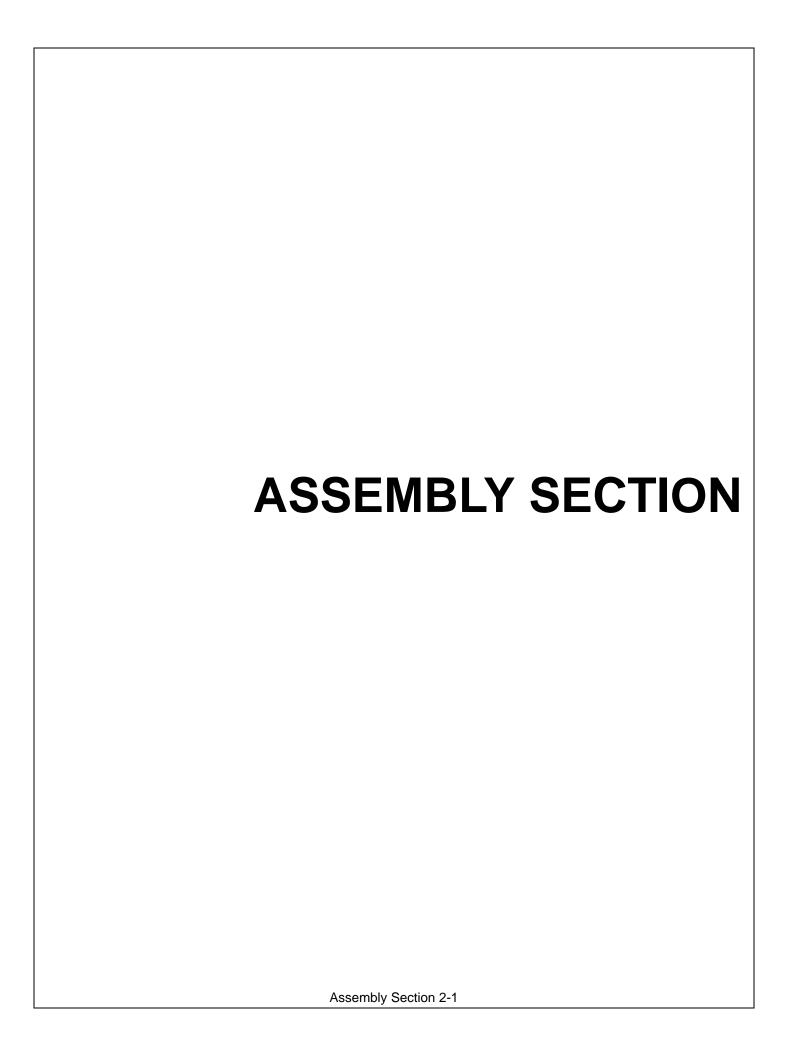
To ensure employee safety during Truck and Implement operation, it is the employer's responsibility to:

- 1. Train the employee in the proper and safe operation of the Truck and Implement.
- 2. Require that the employee read and fully understand the Truck and Implement Operator's manual.
- 3. Permit only qualified and properly trained employees to operate the Truck and Implement.
- 4. Maintain the Truck and Implement in a safe operational condition and maintain all shields and guards on the equipment.
- 5. Ensure the Truck is equipped with functional seat belts and require that the employee operator securely fasten the safety belts at all times.
- 6. Forbid the employee operator to carry additional riders on the Truck.
- 7. Provide the required tools to maintain the Truck and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.

Child Labor Under 16 Years of Age

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)





Before attempting to mount your Tiger mower, it is important to read an understand all of the Safety Messages in the Safety section of this manual.

Check complete shipment list against the packing list to make sure there are no shortages. Make certain the tractor model is the appropriate one for the mower received!

▲WARNING

Always use a floor jack, hoist or fork lift to lift and raise heavy parts.

Read and understand the entire assembly section instructions before attempting to mount your Tiger mower. Refer to the parts section of this manual for detailed illustrations to locate all parts. (ASM-C-0001)

TRACTOR PREPARATION

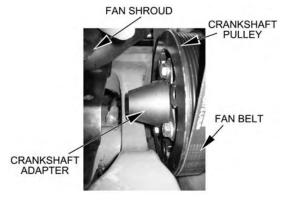
- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where main frame and pump mount will be attached.
- E. Remove any front weights and weight supports.
- F. Raise the tractor onto jack-stands and remove the right and left rear wheels.

(ASM-JD-0001)

CRANKSHAFT ADAPTER

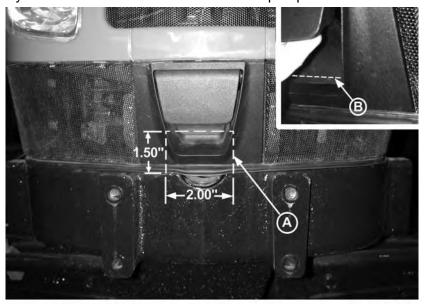
If necessary remove the four capscrews from the crankshaft pulley. Then install the crankshaft adapter to the pulley with capscrews and lockwashers as shown in the parts section.

(ASM-JD-0051)



PUMP MOUNTING BRACKET

To allow for the pump mounting bracket on a CNH TL80-100A series tractor, a notch needs to be cut in the front hood latch housing. Refer to the image below for directions on cutting the notch. This does <u>not</u> have to be done for a CNH T5000 series tractor. NOTE: The battery needs to be relocated to connect the pump to the crankshaft. (ASM-NH-0023)



A. CUT HOOD LATCH HOUSING AS SHOWN, GROUND EDGES OF CUT SMOOTH. CUT SEAL GASKET TO MATCH.

B. CUT LOWER PORTION OF LATCH HANDLE TO MATCH CUT-OUT OF HOUSING, GRIND EDGE SMOOTH.

FRONT PUMP MOUNTING

Install the pump mounting bracket on the front of the tractor with capscrews and washers as shown in the parts section illustration. DO NOT tighten fasteners at this time.

Thread the pump drive shaft into the crankshaft adapter. The end with the splines should match up with the coupler.

Slide the splined drive shaft coupler onto the pump drive shaft. Install the pump onto the mounting bracket. NOTE: The shaft is offset to one direction, the pump should be installed with the offset side on top. Install hardware for securing pump to the pump mount, DO NOT tighten.

Align pump so that splined coupling can be moved back and forth by hand. Tighten pump mounting bolts in succession rechecking for spline coupling movement. Remove the pump mounting bracket bolts one at a time and apply a tread locking agent. Tighten these bolts in succession, again checking for free movement in the drive shaft. After all bolts are torqued, the end play on the drive shaft should be 1/16" to 1/8", and coupler should move freely with hand pressure. If end play is less than 1/16", grind the end of the shaft to achieve the proper end play. If there is more than 1/4" of end play, return the shaft with specifications for a longer shaft.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-NH-0024)



BATTERY RELOCATION

To allow for the Tiger driveshaft from the pump to the crankshaft, the battery needs to be removed. The battery cables then have to be secured away from the driveshaft. Remove the battery by removing the capscrews and the mounting bar at the base of the battery. Use a clamp and the existing bolt hole as shown below. The battery will be relocated to a battery box which is mounted on the right side axle brace. (ASM-NH-0034)



ADJUSTING REAR WHEELS

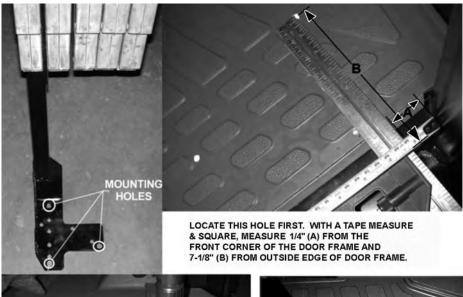
Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owners manual for adjusting tires and rims**. The back wheels MUST be adjusted to the widest setting. NOTE: This may require switching the wheels to opposite sides of tractor. Also take note of any width restrictions when transporting by trailer. (For ease of installation, it is best to leave the rear wheels removed during installation of the mower.) (ASM-B-0001)

CABLE CONTROL LEVER STAND

Follow the directions to mount the bracket to the cab floor on the following page. Then mount the control boxes to the stand as shown in the parts section.

Cut a 2 ¼" hole in the floor of the cab. This hole is to be located 4½" from the back fender, and 3 ½" from the edge of the door frame. Check under cab floor before cutting. Install trim lock around the metal edges of the hole, then route the cables through the hole. Next, wrap the cables with the 6" split hose at the point they pass through the hole, and secure with zip-ties.

NOTE: Read the Switch Box directions before routing the cables. Some wires use the same hole. (ASM-NH-0025)





DRILL USING A 1-1/8" HOLE SAW THROUGH THE FLOORMAT.



LOCATE STAND USING HOLE. ROTATE THE STAND SO THE EDGE IS PARALLEL WITH THE DOOR FRAME.



BEFORE FINAL INSTALLATION, BE SURE TO LOCATE SPACERS IN HOLES.



SWITCH BOX WIRING

Refer to the parts section for wiring diagram to hook up the switch box. Cover the four wires from the switch box with plastic wire wrap provided. Route the wires from the switch box to the front console panel. Remove the console panel under the steering wheel to access wires. Locate the neutral safety wire. **Using a test light or meter to verify** this wire is the neutral safety wire. Cut the wire and connect the green wires from the switch box as shown in the wiring diagram.

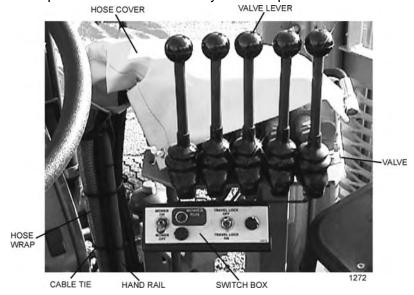
Run the long harness with the white wire to the solenoid valve through the floor with the control cables. Then with the hoses to the solenoid valve. Cover the wires with wire wrap.

The red wire is to be hooked to the tractor ignition switch or an available slot in the fuse box. NOTE: Be certain that the power taken for the switch box is "HOT" only when the tractor ignition is "ON". Also double check that the line is fused.

If you have the limit switch option installed on your draft beam, you will need to remove the cap on the short harness with the white wire. Connect the limit switch harness to this end and route it through the floor with the control cables and plug it into the limit switch (ASM-NH-0026)

MANUAL SWITCH BOX MOUNTING

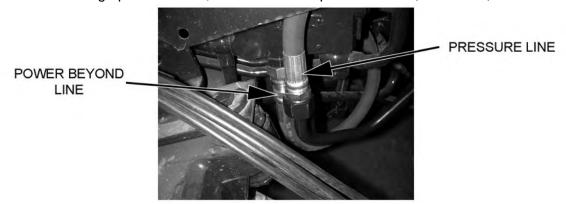
The switch box is to be secured to the operators side of the control handles, or valve stand. Refer to the parts section for assembly and components needed.



(ASM-C-0053)

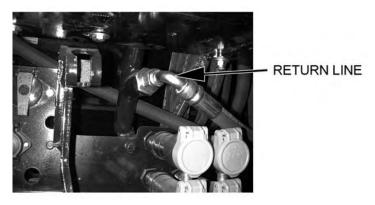
PRESSURE LINE INSTALLATION (CABLE CONTROL)

The hydraulic pressure line will be plumbed from the line supplying pressure to the tractor remotes. The location of the connection is by the right rear axle, see the image below. Disconnect the two lines. The pressure line comes in from the tractor. After lines are disconnected, connect the pressure hose to the female fitting and route the hose from the line to the high pressure filter, as shown in the parts section. (ASM-NH-0027)



RETURN LINE INSTALLATION

The return line will be plumed into the tank port, just below the cap of the filler neck, located under the rear window. Locate the tank port and remove the plug. Connect the adapter and the hose to the port and route the hose to the return port on the Tiger lift valve, as shown in the parts section. (ASM-NH-0028)

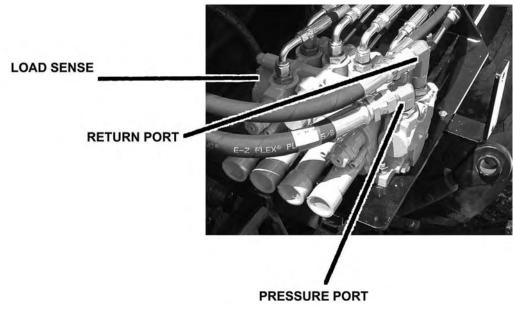


POWER BEYOND LINE INSTALLATION

The power beyond line will use the male connection of the tractor remote line that was disconnected when plumbing the pressure line. Route the power beyond hose from the port on the Husco valve, as shown in the Parts Section, to the remaining line. Connect the hose to the male fitting, as shown above. (ASM-NH-0029)



MANUAL LIFT VALVE PORTS



(ASM-C-0057)

HIGH PRESSURE FILTER (CABLE CONTROL)

The high pressure filter is mounted to the right valve mounting bracket with hardware, as shown in the parts section. Attach the two adapters to the filter. The pressure line from the tractor is plumbed to the left (Inlet) side of the filter. The pressure hose that is attached to the right side of the filter is routed to the pressure port of the Tiger lift valve. (ASM-C-0031)

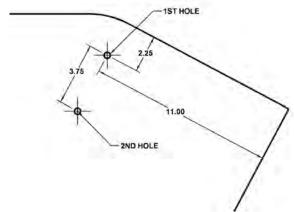
VALVE MOUNTING (CAB UNITS)

Attach the valve mounting brackets to the back of the cab, first. Using the 18mm capscrews, locate the existing holes under the rear window, and attach the bracket to the cab. Locate the lower straps on the bracket. Mark the holes on the fenders for the bracket support. Drill the holes and add the supplied hardware. Check the parts section for the correct hardware. (ASM-NH-0030)



VALVE MOUNTING (NON-CAB UNITS)

Drill the first hole in the fender for 3/8" capscrews as shown below. Level the valve mounting bracket vertically and horizontaly and mark the location for the second hole. Drill the second hole and repeat the previous steps on the other fender. Mount the valve mounting bracket to the tractor as shown in the Parts section. (ASM-NH-0031)





FILLING HYDRAULIC RESERVOIR

Refer to the maintenance section for filling specifications and hydraulic oil requirements.

NOTE: Starting or running your Tiger mower before filling reservoir will cause serious damage to hydraulic pump.

(ASM-C-0004hydro resrv)



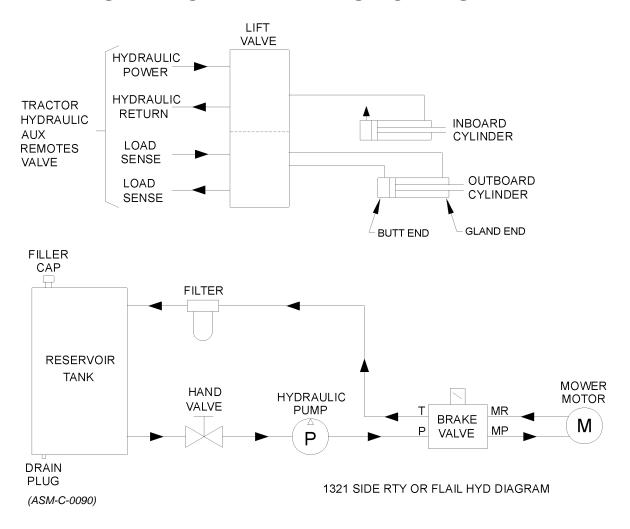
MAIN FRAME INSTALLATION

With an overhead hoist and / or jack-stands, raise one side of the frame up to the correctly matching mounting holes. Install capscrews and all other hardware as shown in main frame parts section to secure the sides of the main frame to the tractor casting, DO NOT tighten at this time. Remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the maintenance section of this manual. (ASM-C-0003)

AXLE BRACE MOUNTING

Position the right axle brace under the tractor right hand side. Raise the brace up to the matching mounting holes in the main fame and rear axle housing. Note that both right and left (if applicable) axle braces are installed on outside edge of the main frame. Install the axle brace with capscrews, washers and nuts as shown in the main frame parts section. Apply Loc-Tite to the threads and torque to the values noted in the torque chart located in the maintenance section of this manual. (ASM-NH-0033)

SIDE MOWER HYDRAULIC DIAGRAM



SIDE HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in the Parts Section illustration. Insert tank sight glass into front side of tank.

Place the tank in the mounting bracket on the main frame as shown in the Parts Section. Secure the tank with the tank channel mount by placing the channel mount on top of the tank and the washers over the holes. Thread the tie bolts through the washers and holes to the threaded holes on the main frame. Tighten the tank channel mount by using the hex heads on the end of the tie bolts.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. The tank breather cap is ready for use as the tank is filled. Some of the for-metioned items may be already installed. (ASM-MOTOR HYDRO-0001)

BUMPER HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in the parts section illustration. Insert tank sight glass on the inner left side of the tank. Install the temperature sensor (optional), or pipe plug into side of the tank.

Attach the large mounting brackets on the front casting of the tractor. Raise the tank and secure the brackets to the tank with the hardware shown in the parts section.

With spacers and the hardware provided, reinforce the tank with the small tank mounting brackets on the inner side of the tank as shown in the parts section. The small brackets attach to the pump mounting bracket and the tank. Replace two(2) of the spacers if adding a grill gaurd.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. Locate the tank breather cap into the top of the tank after the tank is filled. (ASM-C-0030)

GENERAL HOSE INSTALLATION

Refer to the parts section for detailed information about hoses and fittings for this application. When mounting the suction hose between the pump and the tank, the stainless steel bands that are provided must be used. CAUTION: DO NOT use regular hose clamps for this purpose.

For protection of hoses in contact with metal edges, wrap hoses with spit hose sections and fasten with hose clamps or zip ties as needed. (ASM-C-0011a)

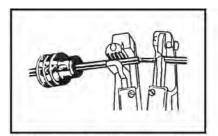


WEATHER-PACK/METRI-PACK ASSEMBLY

These instructions apply to both Weather-Pack and Metri-pack connectors.

NOTE: Use the specific tool for the type of connector you are assembling.

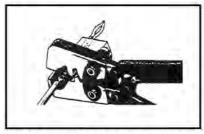
(ASM-C-0009)



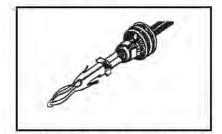
Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



3. Put terminal in crimping tool, then



4. Crimp and visually inspect for a good

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses with the hose covers as illustrated in the parts book. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties. On non cab units the pressure and return hoses from the control valve will also need to be routed inside the protective clear hose wrap. (ASM-C-0019)

SOLENOID BRAKE VALVE

Install a solenoid valve mounting bracket with the supplied hardware. While installing fittings to the brake valve, the electrical coil on the spool must be removed to make room. When reinstalling the coil, it is important to use no more than 5 ft. lbs. (or 60 in. lbs.) torque. Over torque to the coil will result in hydraulic failure of spool. (ASM-C-0017)

TEMPERATURE GAUGE MOUNTING (OPTIONAL)

Mount the temperature gauge where it is clearly visible to the operator. Attach the green (-) wire from the negative post on the gauge to a grounded bolt on the tractor frame. Remove paint if needed to make a good ground. Remove the pipe plug from the side of the hydraulic reservoir and install the temperature sensor using thread sealing tape. Run the white wire from the (s) sensor post of the gauge to the temperature sensor on the hydraulic reservoir tank. (ASM-C-0051)

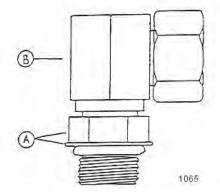


INSTALLING NATIONAL PIPE FITTINGS

Whenever installing a pipe fitting, wrap the threads clockwise (looking at the end) with teflon tape. In this way, the tape will be tightened when installed. NOTE: It is not necessary to tape O-ring fittings, or those installed in swivels.

INSTALLING O-RING FITTINGS

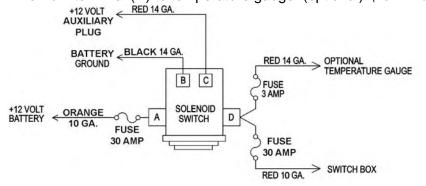
Installing straight, 45 degree and 90 degree O-ring fittings requires that the O-ring, washer and nut (A) be up against the swivel body (B). Insert the swivel and turn in until the swivel is pointed in the right direction and O-ring contact is made. Hold swivel in set direction with a wrench and turn the O-ring nut away from the swivel body and carefully tighten.(ASM-C-0002)



CONTINUOUS DUTY SOLENOID SWITCH

Mount the solenoid switch, drill holes to match if necessary, in a dry and well protected area. Secure as shown in the parts section with provided 3/8" x 1" capscrews, lockwashers, and hex nuts. Route wires to and from the Continuous Duty Solenoid Switch as shown below.

- A.) ORANGE 10 GA. wire from terminal (A) to +12V battery fusible link.
- B.) RED 14 GA. wire from terminal (C) to tractor plug in cab.
- C.) BLACK 14 GA. wire from terminal (B) to -12V battery post.
- D.) RED 10 GA. wire from terminal (D) to switch box.
- E.) RED 14 GA. wire from terminal (D) to temperature gauge. (optional). (ASM-NH-0032)





COOLER MOUNTING - SIDE TANK

Mount the cooler mounting brackets on the top rear side of the side hydraulic tank. Locate the bolt plates on the top of the tank and secure the appropriate cooler bracket to the tank with the hardware provided. Attach the screen and cooler to the brackets. Refer to the Parts Section to attach the hoses and adapters to the cooler. (ASM-C-0092)





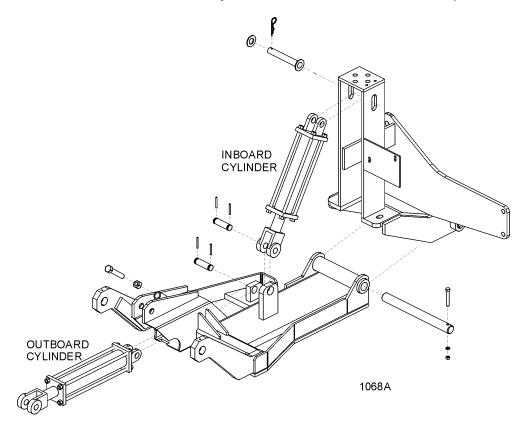
COMBO LIFT DRAFT BEAM INSTALLATION

Install ½" O-ring breather into butt port of inboard cylinder. Install fittings in the rod end of the cylinder according to the diagram in the commons section. These fittings should be positioned to face the butt end of the cylinder.

Next turn the clevis onto the rod of the cylinder until it is tight against the shoulder and lock into place with locking bolt on clevis.

The inboard cylinder can now be installed into the main frame mast with the pin, flat-washers and R-clips as shown below. Use teflon tape on all fitting and hose connections.

Install all fittings in the outboard cylinder and adjust to point towards the butt end of the cylinder. Attach the hoses as specified in the parts book. Slide the cylinder into the draft beam from the outside of the draft beam and attach cylinder to the draft beam with clevis pin and rollpins.



DRAFT BEAM MOUNTING

Pull the inboard cylinder piston rod down to the extreme extended position. Slide the draft beam under the cylinder, and align clevis hole with draft beam hole nearest to the tractor. Install pin and secure with rollplins.

Using inboard cylinder as a pivot point, slide draft beam under tractor and install draft beam pin. Align hole in draft beam pin with holes in main frame boss and install cap-screw, lockwasher and hex nut. (ASM-SIDE MNTS-0001)



LIMIT SWITCH MOUNTING

ASSEMBLING LIMIT SWITCH

Mount bracket 1-5/8" down from top edge on the inside of the rear arm of the draft beam, (Fig. A) square with inside corner as shown with the square corners against arm. Weld plate no more than 5/8" x 1/4" on top as shown.

Assemble limit switch with wheel on body side of arm and with the rear of arm mount aligned with fourth notch on arm as shown in Fig. C. Fasten limit switch cam to bonnet with the 7/16" x 3-1/2" pin bolt and flatwasher as shown in Fig. D.



To adjust switch do as follows:

- 1. With cam in place and pin bolt installed, raise mower to desired shutoff angle.
- 2. With pin bolt loosened turn cam until roller follower just reaches peak (see Figure E) and tighten pin bolt.
- 3. With switch arm mount screw (see Figure C) loose turn shaft (see Fig. E) with screwdriver in direction of follower rise while holding follower against cam peak until switch clicks off and hold while tightening arm mount screw.

WIRING LIMIT SWITCH

Remove top cover on switch to expose terminals. Connect red wire to either of the back terminals, and the black wire to the other back terminal. Cut the white wire to solenoid valve at a place closest to the tilt-angle switch. Connect the red wire to one of the cut ends and the black wire to the other end. This connects the switch in series with the solenoid valve. (ASM-C-0028)

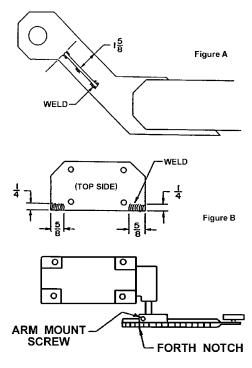
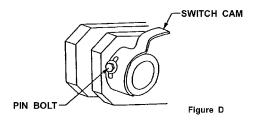
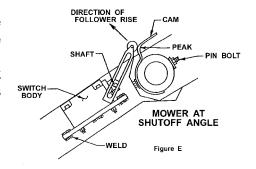


Figure C

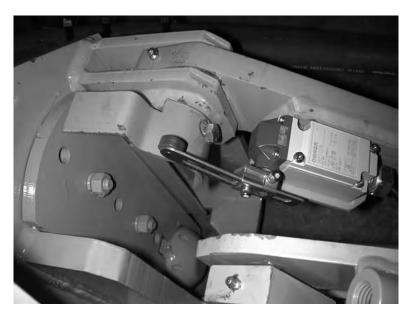






LIMIT SWITCH

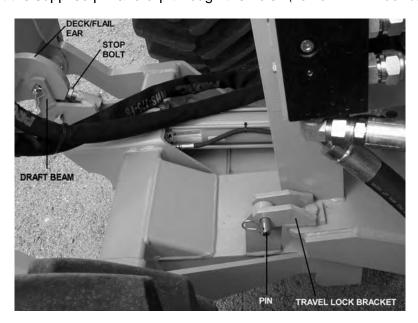
(ASM-C-0029)



TRAVEL LOCK MOUNTING

Install the travel lock bracket with pin and clip on the draft beam. Slide the draft beam and align the travel lock bracket hole with the mounting hole on the main frame. Install the capscrew, lockwasher and hex nut as shown in the picture.

Raise the deck/flail to it's upright position (Deck ear touches to stop bolt as shown in the picture). Drill a 13/16" hole to the deck/flail ear through the draft beam as shown below. Insert the supplied pin and clip through the hole. (ASM-SIDE TRVL LOCK-0001)

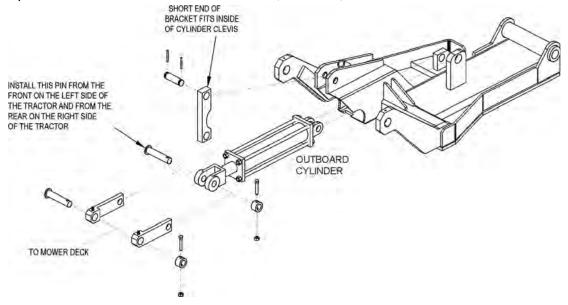




MOWER MOUNTING

Check that all grease zerks have been installed in the draft beams pivot arm, left linkage arm, right linkage arm, and cylinder mounting ears.

Using a clevis pin and roll pins, connect the pivot arm to clevis on draft beam. NOTE: Make sure the longer distance between the cutout and the end of the pivot arm is closest to the draft beam pivot ears on the center tube as shown in the diagram below. Also make sure the cutout on the pivot arm faces into tube of draft beam. (ASM-C-0077)



Slide other end of pivot arm with short distance between the cut-out and the end of the pivot arm, into the cylinder clevis. Next, line up the holes of the left and right lift linkage arms outside of the cylinder clevis holes. Connect with linkage pin, shims (as required), boss, cap-screw, lock-washer and hex nut as shown.

To connect the bonnet to the draft beam, slide the extension arms of the draft beam between the mounting ears on the inner end of the bonnet. Line up the holes and secure with swivel pin, cap-screw, lock-washer, and hex nut (both sides). See parts book illustration.

Next, slide the left and right linkage arms up to the slotted ear on the side of the deck. Secure with linkage pin, shims, boss, cap-screw, lock-washer and hex nut. See illustration in Parts Section.

LIFT CONTROL FEEDLINES

Hose lengths will vary between tractor applications such as cab and non-cab units. See the Parts Section that pertains to your tractor for hose applications.

Install a hose from the bottom or inner valve port (behind cab for cab units, on stand for non-cab units) to the restrictor on the inboard cylinder gland.

Install a hose from the upper or outer valve port to the restrictor on the outboard cylinder butt. See Parts Section for part numbers and hose routing illustrations. (ASM-C-0093)



DECK / MOTOR FEEDLINE

Install the 1" hoses from the motor to the solenoid valve. Refer to the parts section for detailed information about hoses and fittings for this application.

Install split hoses around hydraulic hoses where they contact sharp edges, or any other edges that may rub hoses.

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the maintenance section. Re-check all fittings for tightness.

Fill hydraulic tank with fluid as recommended in the Maintenance Section. **BE SURE TO OPEN THE BALL VALVES.** Start the tractor and operate the inboard cylinder through the entire stroke and the outboard cylinder through the bottom ¾ stroke repeatedly to clear the lines of air. **DO NOT** run outboard cylinder out to full stroke until stop bolt has been adjusted!

Check for oil leaks at all fittings and connections using a piece of paper or cardboard. If a leak is found, you must shut down the tractor and set the cutter head on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines. **DO NOT USE HANDS TO CHECK FOR FLUID LEAKS!**

Raise the three point hitch and check the tractor internal hydraulics, fill to proper level if needed. (ASM-C-0079)

STOP BOLT ADJUSTMENT

Extend the outboard cylinder all the way out. Adjust the stop adjustment bolt (located on the top of the draft beam) out until it is up against the bonnet. Lock the bolt down with the ¾" hex nut.

NOTE: When the outboard cylinder is fully extended, the bonnet or deck should either be up against the stop or if travel locks are installed, it should be up against the travel lock. It may be necessary to use either external or internal slugs on the cylinder to get the correct stroke. If the cutter head is against the stop and the cylinder has stoke remaining, serious damage will occur.

Proceed to final preparation for operation instructions on the next page. ASM-SIDE MNTS-0003)



FINAL PREPARATION FOR OPERATION

Place operators safety and operation decals on the steering column and side counsel where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the safety and operation section of this book. The decals are to be maintaned in good condition as a reminder to the operator, and should be replaced if damaged.

Finally, all bosses, pins and pivot points will need to be greased as instructed in the maintenance section of this manual. The hydraulic reservoir can also be filled with the recommended fluid (see maintenance section) and the filter installed in the top of the tank. Double check all fittings and fasteners BEFORE starting tractor. Also secure any loose hoses together with zip ties and wrap with split hoses where friction may occur on the hoses.



BEFORE starting or operating the tractor you must read and understand the safety and operation sections of this manual completely.

BE SURE THE BALL VALVES ARE OPEN! Start tractor and allow instruments to stabilize. Using a piece of paper or cardboard as noted in the safety and maintenance sections, check all fittings and connections for hydraulic leaks.

If a leak is found, you must shut down the tractor, set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

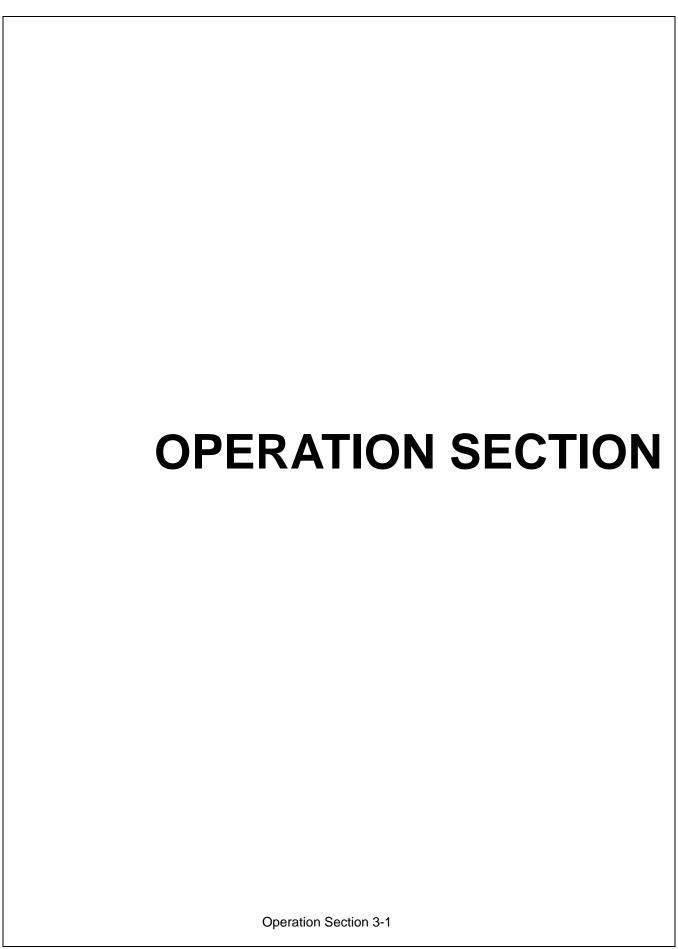
Before operating the mower, the cutter head and boom should be slowly moved throughout the full range of motion. Watch for any condition that would cause pinching or excess stress on the hoses. The steering and front axle travel should also be carefully moved through their full range of motion. If any condition occurs in which the hoses contact the tires, the steering and / or front axle travel may need to be limited as described in the tractor operators manual. This should also be done if the tires rub, or are extremely close to any other part of the mower such as the hydraulic tank or draft beam. This may include adding shims, or adjusting stop bolts in the tractor front to solve the problem. While checking motion, you should also check that the control circuits are connected according to the operators decal for the valve handles.

MOWER TESTING

Take the tractor to a place free of loose objects on the ground. Operate the cylinders through their full range of motion again, to clear the lines of air. Follow the instructions in the operation section to operate the mower. Vibration of the mower should be minimal at all times. After a 5 minute test run, the knife bolts should be retorqued and once again after the first few hours of operation.

If any parts of this assembly section, or any other section of this manual are not clearly understood you must contact your dealer or the address on the front of this manual for assistance!(ASM-C-0010)





TIGER SIDE ROTARY MOWER OPERATING INSTRUCTIONS

Tiger Side Rotary Mowers are manufactured with quality material by skilled workers. The side mower positions may optionally be controlled with the tractors remote hydraulic connections or a combination of lift valve and remote hydraulics. If so, determine which position of the mower is to be controlled by each remote lever. The mower is equipped with safety warning decals, protective deflectors, shields, and other safety features to provide operator and passerby protection, however, no shielding is 100% accurate. ALL safety equipment and safety warning decals must be maintained on the unit in good operational condition at all times.

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, tractor or a thrown object. Do not operate the mower if bystanders, passersby, pets or livestock are within 300 feet of the unit.

This section of the Operator's Manual is designed to familiarize, instruct, and educate operators to the safe and proper use of the mower. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a mower and are not specific. Some pictures may show shields removed to enhance visual clarity. NEVER operate the unit without all safety equipment in place and in good operational condition. The operator must be familiar with the unit and tractor operation and all safety practices before beginning operation. Proper operation, as detailed in this manual, will help ensure years of safe and satisfactory use of the mower.

READ AND UNDERSTAND THE ENTIRE OPERATING INSTRUCTIONS AND SAFETY SECTION OF THIS MANUAL AND THE TRACTOR MANUAL BEFORE ATTEMPTING TO USE THE TRACTOR 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 tractor. (OPS-U-0001)

<u>READ, UNDERSTAND, and FOLLOW</u> 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. (SG-2)





Si no lee ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad. (SG-3)



SIDE ROTARY

1. STANDARD EQUIPMENT AND SPECIFICATIONS

SIDE ROTARY

Cutting Width 60" and 72" Actual Cut

Spindle Drive Direct Spline and Direct Flexible Coupler

Cutter Assembly One-piece formed dish type with one-piece forged spindle assembly

Cutter Head Arc 180° on Cable Lift and 159° on Combo Draft Beam

Knives Two full swinging high suction heat treated knives standard

Optional three, four or six knives available

Main Frame *Solid mount design may include front, mid and rear braces

(May vary depending on tractor model)

Lift Control Tractor Hydraulic or Optional Cable control and valves

^{*} May vary depending on tractor model.



The Mower is designed for certain mowing applications and is rated to cut up to a specific size vegetation (see Mower Standard Equipment and Specifications). DO NOT use this mower to cut vegetation above the Mower's rated capacity or to cut any type of non-vegetative material. Only operate this Mower on a properly sized and equipped Tractor. Operating this Mower in an application for which it is not designed and/or operating the Mower with the wrong size Tractor can cause Mower component damage and equipment failure resulting in possible serious injury or death. (SGM-14)

SIDE ROTARY Operation Section 3-3

2. OPERATOR REQUIREMENTS

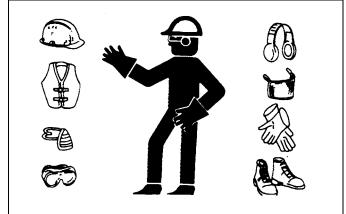
Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained in this manual, safety signs are affixed to the implement and tractor. 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:

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Always Wear Safety Glasses
- Hard Hat
- Steel Toe Safety Footwear
- Gloves
- Hearing Protection
- Close Fitting Clothing
- Respirator or Filter Mask (depends on operating conditions) (OPS-U- 0002)



A DANGER

NEVER use drugs or alcohol immediately before or while operating the Tractor 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 Tractor 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. (SG-27)



SIDE ROTARY

3. TRACTOR REQUIREMENTS

In addition to tractor horsepower and size required to operate the boom unit, the tractor must also be properly equipped to provide operator protection, to alert approaching vehicle drivers of the tractor's presence, and to ensure tractor stability when mowing with the boom fully extended.

Tractor Requirements and Capabilities

- ASABE approved Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt.
- Tractor Safety DevicesSlow Moving Vehicle (SMV) emblem, lighting
- Power Take Off......540 RPM

3.1 ROPS and Seat Belt

The tractor must be equipped with a Roll-Over-Protective-Structure (ROPS) (tractor cab or roll-bar) and seat belt to protect the operator from falling off the tractor, especially during a roll over where the driver could be crushed and killed. Only operate the tractor with the ROPS in the raised position and seat belt fastened. Tractor models not equipped with a ROPS and seat belt should have these life saving features installed by an authorized dealer. *OPS-U- 0003*



Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)





3.2 Tractor Safety Devices

If transporting or operating the tractor and implement near a public roadway, the tractor 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 a SMV emblem must be equipped directly on implements if the visibility of the tractor warning signals are 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 tractor or implement. OPS-U- 0004 A

3.3 Tractor Horsepower

The horsepower required to operate the mower depends on many factors including vegetation to be cut, terrain condition, operator experience and condition of the mower and tractor. For most mowing conditions, the side rotary works best on a tractor with at least 90 HP. Operating the mower with a tractor that does not have adequate power may damage the tractor engine.

SIDE ROTARY

3.4 Front End Weight

A minimum of 20% total tractor weight must be maintained on the tractor front end at all times. Front end weight is critical to maintain steering control and to prevent the tractor from rearing up while driving. If the front end is too light, add weight until a minimum of 20% total weight is reached on the front tires. Front weights and weight carriers can be purchased through an authorized tractor dealership. *OPS-U- 0005*

4. GETTING ON AND OFF THE TRACTOR

Before getting onto the tractor, the operator must read and completely understand the implement and tractor operator manuals. If any part of either manual is not completely understood, consult an authorized dealer for a complete explanation. *OPS-U- 0007*



Do not mount or dismount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped. (SG-12)



4.1 Boarding the Tractor

Use both hands and equipped handrails and steps for support when boarding the tractor. Never use control levers for support when mounting the tractor. Seat yourself in the operator's seat and secure the seat belt around you.

Never allow passengers to ride on the tractor or attached equipment. Riders can easily fall off and be seriously injured or killed from falling off and being ran over. It is the operator's responsibility to forbid all extra riders at all times. *OPS-U- 0008*



Never allow children to operate, ride on, or come close to the Tractor or Implement. Usually, 16-17 year-old children who are mature and responsible can operate the implement with adult supervision, if they have read and understand the Operator's Manuals, been trained in proper operation of the tractor and Implement, and are physically large enough to reach and operate the controls easily. (SG-11)



A DANGER

Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death. (SG-10)



▲WARNING

Do not mount or dismount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped. (SG-12)



SIDE ROTARY

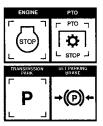
4.2 Dismounting the Tractor

Before dismounting, park the tractor and implement on a reasonably level surface, apply the parking brake, idle the engine down and lower the implement to the ground. Shut down the tractor engine according to the operator's manual, remove the key, and wait for all motion to completely stop. Never leave the seat until the tractor, its engine and all moving parts have come to a complete stop.

Use hand rails and steps when exiting the tractor. 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 tractor. *OPS-U- 0009 A*



BEFORE leaving the tractor seat, always set the parking brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



5. STARTING THE TRACTOR

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

Essential Tractor Controls:

- · Locate the light control switch.
- · Locate the engine shut off control.
- Locate the brake pedals and the clutch.
- Locate the PTO control.
- Locate the 3-point hitch control lever.
- Locate the hydraulic remote control levers.

Before starting the tractor ensure the following:

- Conduct all pre-start operation inspection and service according to the tractor operator's manual.
- Make sure all guards, shields, and other safety devices are securely in place.
- The parking brake is on.
- The PTO control lever is disengaged.
- The 3-point hitch control lever is in the lowered position.
- The hydraulic remote control levers are in the neutral position.
- The tractor transmission levers are in park or neutral.

Refer to the tractor owner's manual for tractor starting procedures. Only start the tractor while seated and belted in the tractor operator's seat. Never bypass the ignition switch by short circuiting the starter solenoid.

After the tractor engine is running, avoid accidental contact with the tractor transmission to prevent sudden and unexpected tractor movement. *OPS-U-0028*

SIDE ROTARY



Never run the Tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health. (SG-23)



Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death. Read the Tractor operators manual for proper starting instructions. (SG-13)



<u>6. CONNECTING THE MOWER TO THE TRACTOR</u>

Use extreme caution when connecting the mower to the tractor. The mower should be securely resting at ground level or setting on blocks. Keep hands and feet from under the mower deck and clear of pinch points between the tractor hitch arms and mower pins. *OPS-R-0001*

6.1 Connecting Mower Hydraulics

Attach the 1" Hoses from the Brake Valve to the hydraulic motor on the Rotary Head. (Refer to **Figure Ops-1252**). Secure the hose sleeves on each hose with zip ties on both ends. *OPS-R-0104*





Avoid contact with hot surfaces including hydraulic oil tanks, pumps, motors, valves and hose connections. Relieve hydraulic pressure before performing maintenance or repairs. Use gloves and eye protection when servicing hot components. Contact with a hot surface or fluid can cause serious injury from burns or scalding. (SG-34)

SIDE ROTARY



Do not operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard. Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves, safety glasses and use Cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



7. PRE-OPERATION INSPECTION AND SERVICE

Before each use, a pre-operation inspection and service of the implement and tractor 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 unit 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. *OPS-U-0029*



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. Make sure all pins have attaching hardware. Serious injury may occur from not maintaining this machine in good working order. (SG-21_A)

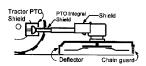




A DANGER

All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields 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. (SGM-3)



SIDE ROTARY

7.1 Tractor Pre-Operation Inspection/Service

Refer to the tractor operator's manual to ensure a complete pre-operation inspection and scheduled service is performed according to the manufacturers recommendations. The following are some of the items that require daily service and inspection:

- Tire condition/air pressure
- Wheel lug bolts
- Steering linkage
- PTO shield
- SMV sign is clean and visible
- Tractor's lights are clean and functional
- Tractor Seat belt is in good condition
- Tractor ROPS is in good condition
- ROPS is in the raised position
- No tractor oil leaks
- Radiator free of debris
- Engine oil level and condition
- Engine coolant level and condition
- Power brake fluid level
- Power steering fluid level
- Fuel condition and level
- Sufficient lubrication at all lube points
- Air filter condition OPS-U-0030



- Inspect mower blades and hardware for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath or that the mechanical travel lock is engaged. Replace damaged, worn, and missing knives as complete sets to maintain mower balance.
- Remove any grass or other debris which may be wrapped around the spindle.
- Inspect the condition of deck skid shoes chains, flaps and hardware. OPS-R- 205



SIDE ROTARY

AWARNING

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. Make sure all pins have attaching hardware. Serious injury may occur from not maintaining this machine in good working order. (SG-21_A)





The operator's manual and safety signs affixed on the unit contain important instructions on the safe and proper use of the equipment. Maintain these important safety features on the implement in good condition to ensure the information is available to the operator at all times.

Ensure all safety signs are in place and legible.
 Replace missing, damaged, and illegible decals. OPS-U- 0011_A



NOTE: The mower Operator's Manual and affixed Decals contain important instructions on the safe and proper use of the mower. Maintain these important safety features on the mower in good condition to ensure the information is available to the operator at all times.

FRAME ASSEMBLY

- Inspect condition of mounting frame weldment.
- Inspect condition of frame Assembly.
- Ensure all bolts and screws are in position and are properly torqued.
- Ensure all pins are in place and fastened with screws.
- Ensure frame is properly mounted to tractor and hardware is propely installed and tightened. OPS-R-0099



SIDE ROTARY

HYDRAULIC LINE INSPECTION

- Check for hydraulic leaks along hoses, cylinders and fittings. IMPORTANT: DO NOT use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks.
- Inspect the condition of the valve weldment.
- Ensure fitting is properly connected
- Inspect condition of bushings. OPS-R-0100_A



AWARNING

Do not operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard. Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves, safety glasses and use Cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



SIDE ROTARY

HYDRAULIC PUMP/OIL RESERVOIR

- Check oil reservoir level and oil condition. (Add specific type oil if low)
- Change hydraulic oil filter and hydraulic oil according to maintenance schedule.
- Ensure there are no oil leaks and fitting are properly connected
- Inspect overall condition of hydraulic pump.
- Inspect pump drive shaft.



Check the fluid level in the Hydraulic Tank on the Tractor, and add oil if required. As the air has been forced out of the Cylinders and Hoses, it goes into the Hydraulic Tank and reduces the volume of oil. Maintain the oil level within the sight gauge located on the side of the reservoir. Never fill the tank above the sight gauge to allow for the expansion of the oil. The tank maintains pressure after the mower has been run. Stand off to one side when removing the breather cap element to prevent possible injury.

OPS-R-215

AWARNING

Attention: Oil Filler Cap is also the Pressure Relief Cap.

Remove cap slowly to relieve pressure before removing cap completely. Stay clear to prevent being scalded with hot oil that may spray out of the tank that is still pressurized and may cause serious injury to eyes, face, and exposed skin. (Ops-0001-MISC)

AWARNING

Avoid contact with hot surfaces including hydraulic oil tanks, pumps, motors, valves and hose connections. Relieve hydraulic pressure before performing maintenance or repairs. Use gloves and eye protection when servicing hot components. Contact with a hot surface or fluid can cause serious injury from burns or scalding. (SG-34)

SIDE ROTARY

ROTARY HEAD INSPECTION

- Inspect blades and blade bolts for looseness and excessive wear. Rotate to 90° to make for checking easier. Replace damaged, worn, and missing blades as complete sets to maintain rotary balance.
- Ensure blade carrier nuts are torqued to proper specifications.
- Ensure rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure hydraulic lines are properly connected to the hydraulic motor. Check for hydraulic leaks along hoses and fittings. DO NOT use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks.



Inspect the condition of deck skid shoes and hardware. OPS-R-216



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. (SGM-09)





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. (SFL-2)



SIDE ROTARY

7.2 Cutting Component Inspection

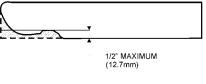
Inspect blade pan and blade assembly for the following: OPS-U-0031 Damaged Pan Cause: Blade Pan contacts an immovable object while mower was in motion. Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist. Original Blade Edge Original Blade Edge \bigcirc **Notches and Gouges** <u>Excessive Blade Wear</u> Cause: Blade contacting foreign objects Cause: Mower height set too low. Blade used past intended life Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades Remedy: Replace blades more often. Adjust mower height for mowing Conditions to eliminate blade-toground contact Op-22

A DANGER

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

- · Become bent or deformed from it's 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. *OPS-U-0032*



Original Blade Edge

NOTE: Replace Blades in pairs after no more than 1/2" (12.7mm) wear O p - 2 3 $^{\circ}$

SIDE ROTARY

7.3 Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

Excessive Blade Bolt Wear

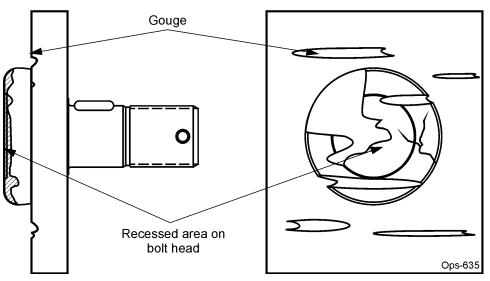
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

Remedy: Inspect the area before mowing to determine where the foreign objects are located and place visible hazard markers to identify the areas where immovable foreign objects exist, and avoid hitting the objects.

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

Remedy: Inspect area to be mowed and remove foreign objects that could cause damage to the blade bolt.



A 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. OPS-U-0037

SIDE ROTARY

Tractor PRE-OPERATION Inspection

	Mower ID#	Make
المار المار	Date:	Shift

AWARNING

Before conducting the inspection, make sure the tractor engine is off, all rotation has stopped and the tractor is in park with the parking brake engaged. Make sure the mower is resting on the ground or securely blocked up and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The flashing lights function properly		
The SMV Sign is clean and visible		
The tires are in good condition with proper pressure		
The wheel lug bolts are tight		
The tractor brakes are in good condition		
The steering linkage is in good condition		
There are no visible oil leaks		
The hydraulic controls function properly		
The ROPS or ROBS Cab is in good condition		
The seatbelt is in place and in good condition		
The 3-point hitch is in good condition		
The drawbar pins are securely in place		
The PTO master shield is in place		
The engine oil level is full		
The brake fluid level is full		
The power steering fluid level is full		
The fuel level is adequate		
The engine coolant fluid level is full		
The radiator is free of debris		
The air filter is in good condition		

Operator's Signature:

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

This Inspection Form may be freely duplicated for extra copies.

SIDE ROTARY

Side Rotary Mower PRE-OPERATION Inspection				
Make				
Shift				
rk with the parking	or engine is off, all rotation brake engaged. Make sure ked up and all hydraulic			
Table 1:				
Condition at Start of Shift	Specific Comments if not O.K.			
	Make Shift nake sure the tractork with the parking d or securely block Condition at			

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

SIDE ROTARY

DRIVING THE TRACTOR AND IMPLEMENT

Safe tractor transport requires the operator possess a thorough knowledge of the model being operated and precautions to take while driving with an attached implement. Ensure the tractor has the capacity to handle the weight of the implement and the tractor operating controls are set for safe transport. To ensure safety while driving the tractor with an attached implement, review the following. *OPS-U- 0012*



Never run the Tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health. (SG-23)



Transport only at speeds where you can maintain control of the equipment. Serious accidents and injuries can result from operating this equipment at high speeds. Understand the Tractor and Implement and

how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.

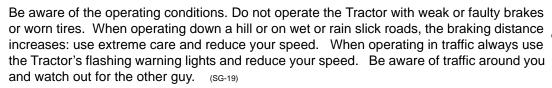


Before transporting the Tractor and Implement, determine the proper transport speeds for you and the equipment. Make sure you abide by the following rules:

Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum transport speed not to exceed 20 mph (30 kph) for transporting this equipment.

Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that the equipment can be operated at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum turning speed for you and this equipment before operating on roads or uneven ground.

Only transport the Tractor and Implement at the speeds which allow you to properly control the equipment.





SIDE ROTARY

7.4 Starting the Tractor

The procedure to start the tractor is model specific. Refer to the tractor operator's manual for starting procedures for your particular tractor. Consult an authorized dealer if the starting procedure is unclear. Ensure the 3-point control lever is in the lowered position and the PTO is disengaged before starting the tractor. *OPS-U-0033*



7.5 Brake and Differential Lock Setting

Make sure the tractor brakes are in good operating condition. Tractor brakes can be set to operate independently allowing single rear wheel braking action or locked together to provide simultaneous rear wheel braking. FOR MOST DRIVING AND OPERATING CONDITIONS, THE BRAKE PEDALS SHOULD BE LOCKED TOGETHER TO PROVIDE THE MOST EFFECTIVE BRAKING ACTION.

Always disengage the tractor differential lock when turning. When engaged the differential lock will prevent or limit the tractor from turning. During normal cutting conditions, locking the differential provides no benefit and should not be used.

OPS-U- 0013



SIDE ROTARY

7.6 Driving the Tractor and Implement

Start off driving at a slow speed and gradually increase your speed while maintaining complete control of the tractor and unit. Moving slowly at first will also prevent the tractor from rearing up and loss of steering control. The tractor should never be operated at speeds that cannot be safely handled or which will prevent the operator from stopping quickly during an emergency. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be difficult to control.

Perform turns with the tractor and units at slow speeds to determine how the tractor with an attached blade or rake handles a turn. Determine the safe speed to maintain proper control of the tractor when making turns. When turning with a towed implement, the overall working length of the unit is increased. Allow additional clearance for the units when turning.

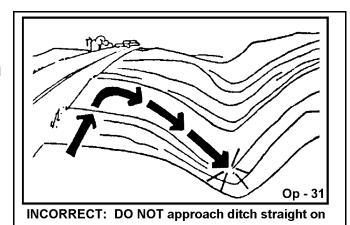
To avoid overturns, drive the tractor with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Tractor wheel tread spacing should be increased when working on inclines or rough ground to reduce the possibility of tipping.

Use extreme caution when operating on steep slopes. Keep the tractor in a low gear when going downhill. DO NOT coast or free-wheel downhill. OPS-U- 0014

7.7

When confronted with an incline or ditch, do not approach from an angle which is perpendicular or straight on as damage may occur.

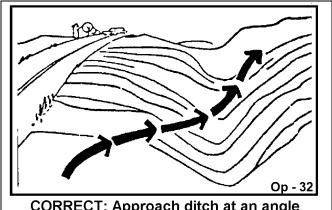
When crossing such terrain, the implement should be fully lowered for a lower center of gravity and added stability. *OPS-R-206*



SIDE ROTARY

Inclines and ditches should be approached along a line which is at an angle as shown. This type of path will reduce the possibility of resulting damage. If the gradient is so steep that such an approach increases the possibility of a tractor roll-over, select an alternate crossing path.

When operating the tractor 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. Ground contact also produces a severe shock load on the mower drive and to the mower blades resulting in possible damage and premature wear. OPS-R-207



CORRECT: Approach ditch at an angle

8. OPERATING THE TRACTOR AND IMPLEMENT

THE OPERATOR MUST COMPLETELY UNDERSTAND HOW TO OPERATE THE TRACTOR AND IMPLEMENT AND ALL CONTROLS BEFORE ATTEMPTING TO OPERATE. The operator must read and understand the Safety and Operation Sections of the implement and tractor operator's manuals. These manuals must be read and explained to any operator who cannot read. Never allow someone to operate the implement and tractor without complete operating instructions.

Before starting any operation, the operator must become familiar with the area to be worked in 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, and passersby and animals in the area. OPS-U-0015

AWARNING

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. (SGM-05)



SIDE ROTARY

AWARNING

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. Remove any like object from the site. Never allow the cutting blades to contact such items.

8.1 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 tractor at once. Immediately idle the engine speed. Wait for all mower rotating motion to stop, then raise the mower and move the tractor 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.

Always wear your seat belt securely fastened and only operate the tractor and mower with the ROPS in the raised position. If the tractor or mower hits a tree stump, rock, or bump, a sudden movement could throw you off of the seat and under the tractor and/or mower. The seat belt is your best protection from falling off the tractor and the ROPS provides protection from being crushed during a tractor roll-over. *OPS-R-208*



Remove Foreign Material



Raise Mower over solid objects

8.2 Bystanders/Passersby Precautions

If a bystander comes within 300 feet of the tractor while the mower is being operated, stop the tractor at once, stop the mower and idle the tractor engine. Do not engage the mower again until all bystanders are well past the 300 foot distance. *OPS-R-209*

SIDE ROTARY



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.



STOP MOWING IF PASSERSBY ARE WITHIN 300 Feet UNLESS:

- -Front and Rear Deflectors, Chain Guards, or Bands are installed and in good, workable condition;
- -Mower sections or Wings are running close to and parallel to the ground without exposed Blades;
- -Passersby are outside the existing thrown-object zone;
- -All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.

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 drivetrain, spread cut material better, reduce streaking, and make the final cut more uniform). (SRM-01)

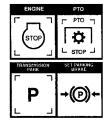
AWARNING

Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07)



A DANGER

BEFORE leaving the tractor seat, always set the parking brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



SIDE ROTARY

8.3 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(3-8 kph). Operate the mower at the proper speed to maintain blade speed for a clean cut. Refer to the tractor operator's manual or the tractor instrument panel for the engine speed and gear to provide the desired ground 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 gear selection and not by the engine operating speed. The operator may be required to experiment with several gear range combinations to determine the best gear and range which provides the most ideal performance from the mower and most efficient tractor operation. As the severity of cutting conditions increase, the ground speed should be decreased by selecting a lower gear to maintain the proper speed. *OPS-R-210*

AWARNING

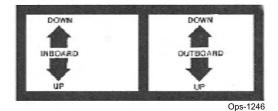
Mow at the speed that you can safely operate and control the tractor and mower. The correct mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 2 to 5 mph(3-8 kph). Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. (SGM-07)



Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. (SG-29)

9. Operating the Control Valves - Side Mount

POSITION CONTROL VALVE - The Valve is located to the right of the operator at a convenient height on a non-cab unit. The Valve is located behind the rear window in a cab tractor. The Valve operation plate is located on the fender for non-cab units and on the switchbox for cab units.



MOWER VALVE OPERATION

SIDE ROTARY

MOWER LIFT

The handle nearest the center of the tractor, actuates the Lift Cylinder (Inboard).

Pulling the valve handle back, towards the operator, causes the Lift Cylinder to raise the Extension Arm.

If the handle is released, the valve will automatically return to center and the Extension Arm will be locked in place.

Pushing the valve handle forward, away from the operator, causes the Lift Cylinder to lower the Extension Arm.

Pulling the handle all the way back until it locks places the mower lift function in float, allowing the unit to rise and fall with the terrain.

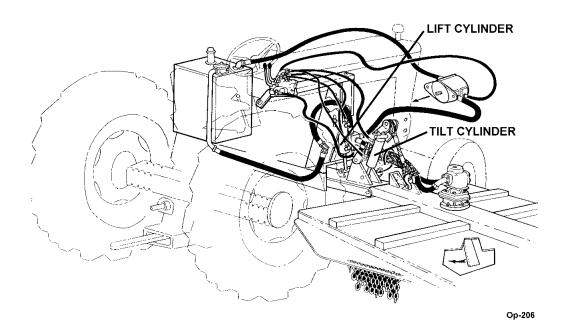
MOWER TILT

The handle furthest to the center of the tractor, actuates the Tilt Cylinder (Outboard).

Pulling the valve handle back, toward the operator, causes the Tilt Cylinder to raise the Mower Head.

If the handle is released, the valve will automatically return to center and the head will be locked in place.

Pushing the valve handle forward, away from the operator, causes the Tilt Cylinder to lower the Mower Head.

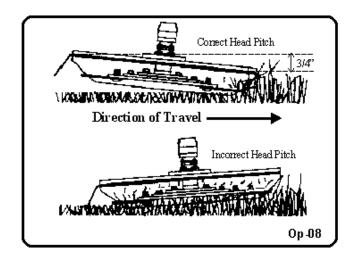


HEAD PITCH

Incorrect head pitch and/or alignment can cause poor cutting performance in side rotary mowers.

Head Pitch is defined as the relationship of the front of the mower to the rear of the mower, as viewed from the side. The desired head pitch for the Side Rotary mowers is for the blade at the front of the mower to be between 3/4" and 1" lower than the blade at the rear.

SIDE ROTARY



MEASUREMENT OF HEAD PITCH

- 1. CUT MOWER OFF AND ALLOW BLADES TO STOP ROTATING
- 2. Move machine to a flat, level area such as a concrete slab
- 3. Lower mower head to within several inches of the ground but do not rest head on ground.
- 4. Stop engine.
- 5. Position blades toward front and rear. Measure the distance from the bottom of the blade tips to the ground, with the blades hanging (at rest). Use two people to measure. Normal drift of the cylinders will cause inaccurate measurements if the front and rear not measured at the same time. DO NOT ALLOW ANOTHER PERSON TO OPERATE THE CONTROLS WHILE MEASUREMENTS ARE BEING TAKEN.
- 6. Bent blades, bars, pans, or loose bolts will make measurements useless.

ALIGNMENT

Head alignment is defined as the relationship of the centerline of the mower to the centerline of the tractor. The desired alignment is that the centerlines of the tractor and mower are parallel to each other.

Misalignment contributes to "streaking" due to the skid shoe laying a wide strip of grass flat. This flattened grass is sometimes not picked up by the mower on subsequent passes. Misalignment also contributes to excessive power consumption because the side skirts tend to "doze" material against the side of the mower, adding drag to the tractor.

Alignment problems can easily be seen by standing in the front or rear of the machine. Align the front and rear of the machine. Align the front and rear edges of the rear tire and compare to the side skirt of the mower (mower head resting on the ground).

SIDE ROTARY

9.1 Basic Troubleshooting Guide for First Start-up.

- a. Electrical solenoid valve does not work check wiring, possible faulty switch, possible faulty solenoid.
- b. Pump is making noise check for obstruction in suction hose and tank suction assembly, check alignment of pump driveshaft.
- c. Cylinders will not raise hoses from cylinder incorrectly connected to valve bank, pump not suppling oil.
- d. Cylinder raises slowly hoses from cylinder incorrectly connected to valve bank, work port reliefs on valve bank set too low replace as required.
- e. Filter reads in red viscosity of oil too high wait until oil heats up before checking filter gauge. If gauge reads in red even after unit is hot, then filter must be replaced.



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel to operate the Tractor or Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)

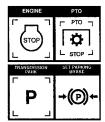


≜WARNING

Always maintain the safety signs in good readable condition. If the safety signs are missing, damaged, or unreadable, obtain and install replacement safety signs immediately. (SG-5)



BEFORE leaving the tractor seat, always set the parking brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



SIDE ROTARY

9.2 Control Location and Functions

The side mower height is controlled with a two or three spool valve and is coordinated as shown below. The optional three spool valve allows for the operation of a rear rotary mower or side ditcher. If the unit is equipped with a three spool valve, do not operate the third spool handle unless a rear rotary or ditcher is mounted.



Ops-1246

The rear mower height is controlled with the 3-point hitch control lever. Follow the instructions for this control in the tractor operator's manual. The tilt of the rear mower is controlled with the third spool of the lift valve, and is coordinated as shown in **Figure Ops-1246.**

The side and rear mower positions may optionally be controlled with the tractor's remote hydraulic connections or a combination of lift valve and remote hydraulics. If so, determine which position of the side or rear mower is to be controlled by each remote lever.

The side mower ON/OFF switch is located in a switch box mounted to the valve stand or cable controls for non-cab and cab units respectively. If operating a rear mower, the ON/OFF switch is located in the switch box with a side mower switch.

This machine may be equipped with an auxiliary oil temperature gauge, an amp gauge or oil pressure gauge. If oil temperature reaches 200° F, stop mowers and see **Troubleshooting Section** for possible causes. Keep and eye on all gauges for indication of problems.

9.3 Operating the Mower

Only operate the mower from the tractor operator's seat with the seatbelt securely fastened. The tractor must be equipped with a ROPS in the raised position or a ROPS cab.

The mower is designed to cut vegetation up to 2" in diameter. 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 to prevent overloading the mower and tractor. Choose a driving pattern that provides the maximum pass length and minimizes turning.

Under certain conditions, tractor tires may roll some grasses down preventing them from being cut at the same height as the surrounding area. When this occurs, reduce the tractor ground speed while maintaining the operating speed of the mower. A slower ground speed will permit grasses to at least partially rebound and be cut. Taking a partial cut and/or reversing the direction of travel may also help produce a cleaner cut.

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 tractor and mower at a reduced ground speed to ensure tractor and mower control is maintained. *OPS-R-211*

▲WARNING

Do not mow with two machines in the same area except with Cab tractors with the windows closed. (SGM-11)



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 300 feet (90 m) in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see these type of items discontinue mowing. (SGM-01)



Follow these guidelines to reduce the risk of equipment and grass fires while operating, servicing, and repairing the Mower and Tractor:



- -Equip the Tractor with a fire extinguisher in an accesible location.
- -Do Not operate the Mower on a Tractor with an underframe exhaust.
- -Do Not smoke or have an open flame near the Mower and Tractor.
- -Do Not drive into burning debris or freshly burnt areas.
- -Ensure slip clutches are properly adjusted to prevent excessive slippage and plate heating.
- -Never allow clippings or debris to collect near drivelines, slip clutches, and gearboxes. Periodically shut down the Tractor and Mower and clean clippings and collected debris from the mower deck. (SGM-12)

SIDE ROTARY



When rotating parts are in motion, serious injury may occur if caution is not used or danger is not recognized. Never allow bystanders within **300 feet** of the machine when in operation. Extreme care should be taken when operating near loose objects - such as gravel, rocks and debris. These conditions should be avoided.

The rotating parts in this machine have been designed and tested for rugged use. However, they could fail upon impact with heavy solid objects-such as steel guard rails, concrete abutments, etc., causing them to be thrown at a very high velocity. Never allow cutter head to contact such objects. Inspecting the cutting area for such objects prior to mowing can help eliminate these potential hazards.

Once on location, lower the mower deck slightly above the material to be cut, so the mower does not have to start under a load. Bring the RPM of the tractor up to 1200 and engage the side mower. If a rear mower is being used, allow the RPM to return to 1200 before engaging the rear mower.

The rotary mower deck should always be carried rather than dragged on the skid shoes when mowing on the ground. Dragging the rotary mower heads causes an extreme side load on the tractor resulting in premature tire wear. It also causes excessive horsepower consumption and drastically decreases blade life. Dragging the rear mower can also cause damage to the road. Once the necessity skill is attained at controlling the height and position of the side rotary mower, it will be easy to carry the mower head(s) and do a proficient job of cutting.

When cutting tall shrubs or small trees (maximum recommended size of material to be cut is 2" diameter), begin each pass at the top of the material and work down with each consecutive pass. Use a low speed to allow the cutting blades time to mulch as well as cut the foliage. When the initial pass has been made, disengage the mower and return the mower to the travel position. Return to the starting point and make next pass.



When using the rotary cutting head for trimming trees and shrubs, let the mower saw into them. Do not lower the mower head down directly onto a tree or stump. The mower blades are designed to cut with the end, and misuse can cause damage to the blade and a hazardous situation for the operator.

To ensure a clean cut, engine speed should be maintained at approximately 1800-2200 RPM. If the tractor slows less than 1800 RPM, shift to the next lower gear. DO NOT ride the clutch, this will cause premature clutch failure. The engine should not be operated at any time at more than 2400 RPM on the tractor tachometer.

DO NOT use excessive force when positioning cutting head into heavy branches or small stumps (2" diameter). Damage to the unit may result. It is best to let the cutter head "eat away" slowly at heavy cutting jobs.

The mower will operate more efficiently in tougher conditions and with less power if the knives are kept sharp. If the mower begins to vibrate, stop the tractor, check for wire wrapped in the spindle or damaged knives. When replacing knives, replace all knives with new knives to ensure proper balance so the mower will not vibrate. Severe vibration will result, if knives with unequal wear are used. Follow the instructions in the **Maintenance Section** closely when replacing knife blades.



If bystanders approach within 300 feet while mower is in operation, turn mower switch "OFF" immediately! After shutdown, never leave the tractor or allow bystanders to approach within **300 feet** of the unit until all motion stops completely.

SIDE ROTARY

When encountering a very severe condition which causes the tractor to stall, disengage mower, start tractor, raise the mower from the cut. Shut tractor off and inspect the mower, blades and disk for damage before engaging mower again.

If the blades jam or stop, disengage the clutch and raise the head slightly or back the tractor up. Normally, this will clear the cutter head. If not, shut off the mower(s), raise the cutter heads, turn off the tractor and set the parking brake. After all motion stops completely, leave the tractor and clear the cutting heads manually.

After the first day of operation, all bolts should be checked and tightened securely. This should be done periodically to ensure the bolts do not become loose and cause damage to the tractor or mower, or injury to the operator.

When you get to the end of a pass, slightly raise the mower (2-4") before turning. Never raise the mower entirely while the blades are turning. If the mower must be raised higher than 12" from ground level, disengage the mower and wait for all mower rotation to come to a complete stop before proceeding to raise the mower. NEVER raise the mower while the blades are turning.

OPS-R-212





Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07)



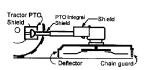
Do not mow or drive the tractor into material that is burning or areas that recently burnt and may contain hot spots. Burning material, sparks and coals could be thrown from the mower to areas of vegetation that might ignite. Tire damage can occur when driving over hot material. Oil and grease on the tractor and mower could ignite resulting in equipment destruction. Carry a fire extinguisher on the tractor at all times to extinguish possible fires encountered.

SIDE ROTARY



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields 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. (SGM-3)





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. Remove any like object from the site. Never allow the cutting blades to contact such items. (SGM-06)



The rotating parts of this machine have been designed and tested for rugged use. However, the blades could fail upon impact with heavy, solid objects such as metal guard rails and concrete structures. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles. (SGM-4)

SIDE ROTARY

9.4 Shutting Down the Implement

To shut down attached mower head, first bring the tractor to a complete stop. Decrease engine RPM to idle then disengage cutterhead. The mower head will come to a complete stop within a suitable amount of time. Do not engage or disengage the cutterheads at a high RPM unless there is an emergency situation.

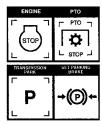
Park the tractor on a level surface, place the transmission in park or neutral and apply the parking brake, lower the attached implement to the ground, shut down the engine, remove the key, and wait for all motion to come to a complete stop before exiting the tractor. *OPS-U- 0016*







BEFORE leaving the tractor seat, always set the parking brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



10. DISCONNECTING THE MOWER FROM THE TRACTOR

Before disconnecting the mower, the mower must be disengaged and blade rotation at a complete stop. Move the mower to a level storage location and place the mower head on the ground. If the mower is not resting securely on the ground, block the mower up securely before attempting to disconnect it from the tractor.

Use extreme care to keep feet and hands from under the mower and clear of any pinch points. OPS-R-213



Never stand or allow another person to stand between a running tractor and the mower when disconnecting the implement from the tractor.

SIDE ROTARY



Always shut the Tractor completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement. (SRM-20)

11. MOWER STORAGE

It is recommended that the mower be stored with the mower fully lowered to ground level. If the mower is stored in the raised position, select a level area and place blocks under the mower to prevent the mower from falling BEFORE disconnecting the mower from the tractor.

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:

- Thoroughly clean all debris off the mower to prevent damage from rotting grass and standing water.
- Lubricate all mower grease points and fill oil levels as detailed in the maintenance section.
- Tighten all bolts and pins to the recommended torque.
- Check the mower for worn and damaged parts. Perform repairs and make repairs immediately so that the mower will be ready for use at the start of the next season.
- Store the mower in a clean, dry place with the mower housing resting securely on blocks or at ground level.
- Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the mower.

OPS-R-214





Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death. (SG-10)



12. TRANSPORTING THE TRACTOR AND IMPLEMENT

Inherent hazards of operating the tractor and implement and the possibility of accidents are not left behind when you finish working in an area. Therefore, the operator must employ good judgement and safe operation practices when transporting the tractor and implement between locations. By using good judgement and following safe transport procedures, the possibility of accidents while moving between locations can be substantially minimized. *OPS-U- 0017*

SIDE ROTARY



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)



12.1 Transporting Mower

TRANSPORTING UNDER THE UNIT'S OWN POWER

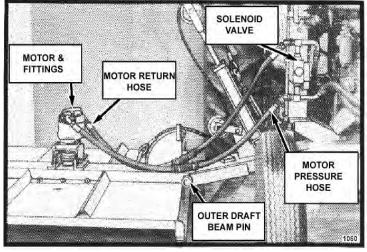
When transporting between job sites or between cutting passes, the following procedure should be followed:

- Shut off the power to the cutting head(s) and allow all motion to come to a complete stop.
- 2. Raise the draft beam to its highest position.
- 3. Raise the side mower until the deck stops against the draft beam.
- 4. Raise the rear mower with the 3-point hitch control lever. The unit is now in position for self-transportation.

TRANSPORTING UNIT BY FLATBED TRAILER

Most tractors with a side mounted mower head attached will be over legal transporting width (102" wide). For this reason, one of the following procedures must be followed:

- Transporting with side mower attached: Use a loading dock or ramp to load tractor onto trailer. Center the
 tractor with mowers attached between the sides of the trailer. Make sure the draft beam and head are fully
 raised and secured. Lower the rear mower onto the trailer. Secure the tractor and rear mower to the trailer
 with chains. Obtain proper over-width permits and mark the vehicle and mower as over-width as required
 by law. Check the tractor operator's manual for any tractor requirements to transport by flatbed trailer.
- Transporting with side mower removed: Park the tractor and turn the engine off. Remove the key to avoid accidental starting. Close ball valves on the hydraulic reservoir. To avoid contaminating the hydraulic system, make sure all fittings on the side mower motor and solenoid control valve are clean. Disconnect the motor pressure hose at the solenoid control valve are clean. Disconnect the motor pressure hose and return hoses at the solenoid valve. See Figure Ops-1226.



Ops-1226

SIDE ROTARY

Next, cap or plug the hose ends and the ports on the solenoid valve and motor. For a cable lift mower disconnect the lift cable from the head and secure the loose end back onto the cable with the cable clevis. For a combo lift mower, disconnect the linkage from the mower and replace the pin and hardware with the draft beam to prevent loss. For all mowers, remove the hardware and draft beam outer pivot pin. Separate the mower head from the tractor. Now, reinstall the pivot pin and hardware into the draft beam to prevent loss. **OPEN THE BALL VALVES ON THE HYDRAULIC RESERVOIR BEFORE STARTING TRACTOR AGAIN!** Serious damage will be caused if tractor is started with the ball valves closed.

Use a loading dock or ramps to load the tractor onto the trailer, centering the tractor between the sides of the trailer. Make sure the tractor (and rear mower) and trailer are within legal transporting width. Lower the rear mower onto the trailer and set the loose hide mower on the trailer. Secure the tractor and mowers to the trailer with chains. Check the tractor operator's manual for any requirements to transport by flatbed trailer. Reverse this procedure to unload and remount the mowers after transporting. Be sure all pins are secure, all connections are tight and any lost fluid is replaced before using mowers. Use teflon tape when connecting all pipe style fittings.

12.2 Transporting on Public Roadways

Extreme caution should be used when transporting the tractor and implement on public roadways. The tractor must be equipped with all required safety warning features including a SMV emblem and flashing warning lights to alert drivers of the tractor's presence. Remember that roadways are primarily designed for automotive drivers and most drivers will not be looking out for you, therefore, you must look out for them. Check your side view mirrors frequently and remember that vehicles will approach quickly because of the tractor's slower speed. Be extremely cautious when the piece of equipment that you are towing is wider than the tractor tire width and/or extends beyond your lane of the road. *OPS-R-217*



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)



SIDE ROTARY

The SMV (Slow-Moving Vehicle) emblem is universal symbol used to alert drivers of the presence of equipment traveling on roadways at a slow speed. SMV signs are a triangular bright orange with reflective red trim for both easy day and night visibility. Make sure the SMV sign is clean and visible from the rear of the unit before transporting the tractor and implement on a public roadway. Replace the SMV emblem if faded, damaged, or no longer reflective. *OPS-U-0020*



Make sure that all tractor flashing warning lights, headlights, and brake/tail lights are functioning properly before proceeding onto public roads. While newer model tractors have plenty of lighting to provide warning signals and operating lighting, most older models are only equipped with operating lights. Consult an authorized tractor dealer for lighting kits and modifications available to upgrade the lighting on older tractor models. *OPS-U- 0021*



When operating on public roads, have consideration for other road users. Pull to the side of the road occasionally to allow all following traffic to pass. Do not exceed the legal speed limit set in your country for agricultural tractors. Always stay alert when transporting the tractor and implement on public roads. Use caution and reduce speed if other vehicles or pedestrians are in the area. *OPS-U-0022*



A DANGER

Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death. (SG-10)



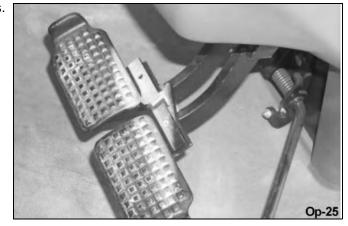
SIDE ROTARY



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)



Reduce speed before turning or applying the brakes. Ensure that both brake pedals are locked together when operating on public roads. *OPS-U- 0023*



12.3 Hauling the Tractor and Implement

Before transporting a loaded tractor and implement, measure the height and width dimensions and gross weight of the complete loaded unit. Ensure that the load will be in compliance with the legal limits set for the areas that will be traveled through. *OPS-U-0024*



SIDE ROTARY

Use adequately sized and rated trailers and equipment to transport the tractor and implement. Consult an authorized dealer to determine the proper equipment required. Using adequately sized chains, heavy duty straps, cables and/or binders, securely tie down both the front and rear of the tractor utilizing the proper tie down locations as specified by the tractor manufacturer. *OPS-U- 0025*



Arrange the chains so that when tightened, the chains are pulling downward and against themselves. Carefully tighten the securing chains or other fasteners using boomers or binders to apply maximum tension. Use extreme care when attaching and removing the securing devices as the extreme tension involved when released has the potential to inflict serious injury.

While hauling the tractor and implement, make occasional stops to check that the tractor and implement have not moved or shifted and that the securing chains have maintained tension. If during transport a hard braking, sharp turning, or swerving action was performed, stop at the next safe location to inspect the security of the load. *OPS-U- 0026*



SIDE ROTARY

13. TROUBLESHOOTING GUIDE

HYDRAULIC CYLINDER NOT WORKING - Check level of hydraulic fluid (see sight gauge on tank). Check to see if pump is functioning properly by attempting to use another cylinder or pressure gauge. If pump is working properly, check the pressure on the line. The relief valve may be by-passing fluid at too low pressures. If cylinder is still not functioning properly, check the line for stoppage. The pistons in hydraulic cylinders are virtually trouble-free, but occasionally one will have a scored wall and allow oil to flow around the piston. In this case, replace the cylinder.

NOTE: Refer to repair parts section on valve bank settings on individual relief cartridges.

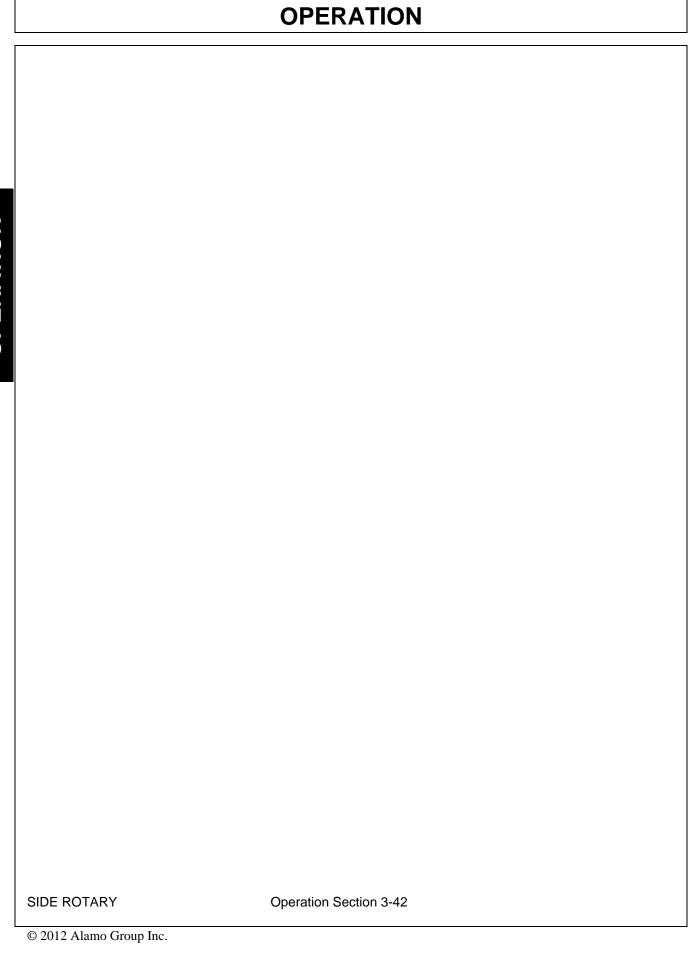
HYDRAULIC MOTOR NOT WORKING - Check lines for kinks or if they are pinched. If the motor is "bogging down" under load, recheck the relief valve setting on the cutter valve.

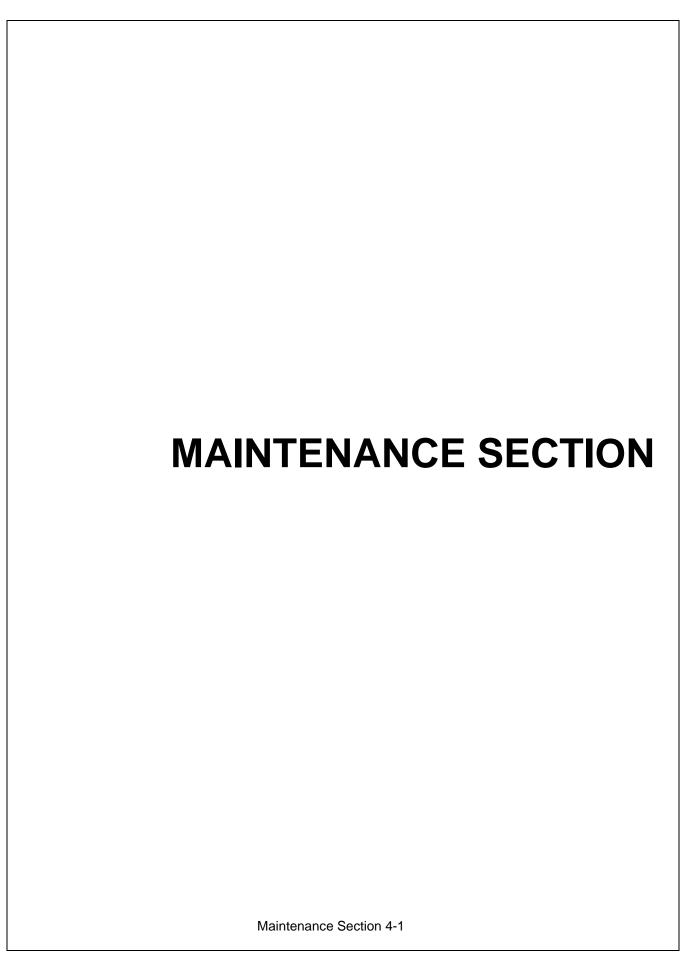
HYDRAULIC VALVE - Failures in the hydraulic system are almost always caused by other elements in the system other than the valve; so the entire system should be checked before the valve is changed. A malfunction In any hydraulic valve section will require replacement of that section (but not the replacement of the valve bank) since the insides are honed to fit individually. Attachments such as the relief valves and detent may be serviced individually.

STRUCTURAL MEMBERS

Failure in structural members generally results from rough treatment. While they are constructed to withstand abuse, they cannot be made strong enough to withstand abnormal abuse. The factory does not warrant these parts to any extent other than in normal use in grass, weeds, brush, small bushes, and small trees which the unit is designed to cut. This mounted implement removes weight from front wheels and can cause loss of steerage with possible overturn. Add front end weight until 20% of tractor original weight is on front wheels when boom is in transport position for steering safety & prevention of bodily injury. Transport slowly on rough surface to prevent bouncing front wheels off surface with loss of steerage and possible injury

SIDE ROTARY





GENERAL INSTRUCTIONS

Tiger Mowers are designed for high performance and rugged durability, yet with simplified maintenance. The purpose of this section of the manual is to help the operator in the regular servicing of the mower. Regular maintenance at the intervals mentioned will result in the maximum efficiency and long life of the Tiger Mower.

When you purchase a Tiger Mower you also acquire another valuable asset, Tiger's parts organization. Our rapid and efficient service has guaranteed the customer satisfaction for many years. Tiger parts keep up with the demands for efficiency, safety and endurance expected of the Tiger Mower.

MAINTENANCE PRECAUTIONS

- Be sure end of grease gun and zerks are clean before using. Debris injected into bearings, etc. with grease will cause immediate damage.
- DO NOT use a power grease gun to lubricate bearings. These require very small and exact amounts of lubrication. Refer to the detailed maintenance section for specific lubrication instructions. DO NOT overgrease bearings.
- Lexan windows should be washed with mild soap or detergent and luke warm water, using a soft clean sponge or soft cloth. DO NOT use abrasive or alkaline cleaners or metal scrapers on lexan windows!
- Be alert to maintenance indicators such as the in-tank filter pressure gauge, hydraulic reservoir sight gauge, etc. Take the required action to correct any problems immediately.
- Release of energy from pressurized systems may cause inadvertent actuation of cylinders, or sudden release of compressed springs. Before disconnecting any hoses relieve pressure by shutting tractor off, setting cutter on ground and actuating lift valve handles.



DO NOT use hands to check for suspected leaks in hydraulic hoses! Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin and cause serious injury. If fluid is injected into skin, it must be surgically removed within a few hours or gangrene may result. Use a small piece of wood or cardboard, not hands, to search for pin hose leaks. Be sure all connections are tight and hoses and lines are not damaged before applying pressure.

BREAK IN PERIOD

In addition to following the break in instructions for your particular tractor, the in-tank hydraulic fluid filter should be replaced after the first 50 hours of service. Thereafter the filter should be replaced every 500 hours, or yearly, whichever comes first.

Re-torque wheel lugs after first five hours of operation and periodically thereafter. See torque specifications listed in the tractor's service manual for your particular model. Wheel lugs must always be re-torqued whenever a wheel is removed and reinstalled.



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. (SG-14)



SIDE ROTARY



Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)



Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to starting any maintenance or repair work. (SBM-6)



Always disconnect the wire leads from the mower pump solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on

without warning and cause immediate dismemberment, injury or death. (SBM-12a)



SIDE ROTARY

REGULAR MAINTENANCE

The intervals at which regular servicing should be done are based on hours of operation. Use the tractors hour meter to determine when regular servicing is required.

Daily or Every 8 Hours

ITEM	SERVICE	COMMENTS		
Drive Shaft Yoke, U-Joint & Stub Shaft	Grease	Grease as instructed in detailed Maintenance Section		
Pump Drive Shaft	Check and Lube	Insure drive shaft end play		
Crankshaft Adapter	Check rubber grommets	Replace grommets if damaged or missing		
Pivot Points	Lubricate	Inject grease until it appears at end		
Hydraulic Fittings	Check for leaks	Tighten when needed. Do Not use hands to check for leaks. See Maintenance Precautions		
Knives	Check	Inspect for missing or damaged knives,change or sharpen as needed		
Spindle mounting bolts (spindle to deck)	Check	3/4" x 2" torque to 331ft./lbs.		
Knife mounting bolts (knife to disk)	Check	Pre-lubricate threads, then torque to 800 ft. lbs.		
Disk mounting bolts (disk to spindle)	Check	5/8" X 1-3/4" bolt torque to 204 dry or 184 oiled ft. lbs.		
Belts	Check/Adjust	Check if broken, tighten as required		
Main Frame and Deck	Check	Retorque bolts to torque specifications in this section		
Hydraulic Fluid Level	Check	Add if required per fluid recommendations		
SIDE ROTARY	Maintenance Section 4-4	-		

WEEKLY OR EVERY 40 HOURS							
ITEM	SERVICE	COMMENTS					
Rotary Spindle	Lubricate	Every 40 hours or weekly					

WEEKLY OR EVERY 50 HOURS

ITEM	SERVICE	COMMENTS		
In Tank Hydraulic Fluid Filter (10 micron filter)	Change	Change after first 50 hours only then every 500 hours or yearly		
In-Line High Pressure Filter (10 micron filter)	Change	Change after first 50 hours only then every 500 hours or yearly		

MONTHLY OR EVERY 150 HOURS

ITEM	SERVICE	COMMENTS
Hydraulic Fluid Level	Check	Add as needed
Hydraulic Tank Breather	Clean/Check/Replace	Clean or replace Element as required
Rear Tire Type 480/80R38 18.4-34 18.4-38	Max P.S.I . 29 26 26	

SIDE ROTARY

YEARLY OR EVERY 500 HOURS							
ITEM	SERVICE		COMMENTS				
Spindle Grease	Change						
Motor to Spindle Spline	Change						
Hydraulic Tank Fluid	Change						
In Tank Hydraulic Fluid Filter (10 micron filter)	Change						
In-Line HP Filter (10 micron filter)	Change	or	Change when indicated by restriction indicator.				
Hydraulic Tank Breather	Change						

SIDE ROTARY

TROUBLESHOOTIN	G	
SYMPTOMS	CAUSE	REMEDY
Vibration	Loose Bolts	Check all bolts and tighten to recommended torque specifications in this section
	Cutter assembly	 a. Check for damaged blades, disc, unbalanced or cutter shaft.
		b. Replace if needed.
		c. Check for wire, rope, etc. entangled in the cutter assembly
Mower will not lift	Hydraulic Fluid Low Leaks in line Faulty relief valve	Check and refill Hyd Fluid Tighten or replace fittings and hoses Check pressure in line. Line pressure in Control Valve should be at least 2500 P.S.I.
	Kinked or blocked	Clean or replace lines
	Faulty cylinder	Inspect, repair or replace cylinder
Oil Temperature rises	Low oil level above 200°F Kinked/blocked hoses Worn pump/motor	Bring oil to proper level. Inspect / Repair / Replace Disable and Repair
Mower will not start or run	Blown fuse	Check fuse between mower switch and ignition / replace
	Ball valves closed Low oil level Line leak	Make sure valves are open Check Hyd. tank and fill Check all fittings and lines, re-tighten or replace
	Electronic solenoid faulty	a. Without the tractor running, turn the mower switch to on. A low audible click is not heard if the solenoid is engaging the solenoid spool. If click is not heard, leave switch in on position and with a screwdriver or other steel object, touch the small nut on the end of the solenoid. If the metallic object is not attracted to the nut, check the fuse and wiring for an open circuit. If the object is attracted but no "click" is heard, replace the solenoid.
SIDE ROTARY	Maintenance Section 4-	-7

TROUBLESHOOT	ING (CONTINUED)				
		b. Remove the four bolts holding the small block to the main block. Lift and remove small block being careful not to damage O- rings/filter.			
		c. Clean filter and re-install.			
		d. Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block, check block and spool for contaminants and scratches. Clean parts or replace if scratched.			
Motor runs but will not cut	Belts	Inspect belts and pulleys. Replace belts and repair as needed.			
	Tensioner	Adjust tensioner nut flat washer washer is flush with top of guide.			
Mower turns slowly or not at all	Contaminants restricting spool movement in valve body	Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches.			
		Clean parts or replace if scratched.			
	Suction lines obstructed	Check for kinks or obstruction in suction hose.			
	Low oil level	Check Hyd. tank level and fill.			
Pump will not work	Excessive wear on internal parts	Disassemble and repair.			
Motor will not work	Excessive wear on internal parts	Disassemble and repair			

If the solution to your problem cannot be found in this section, call the Technical Service representative at the number shown on the front cover of this manual.

SIDE ROTARY Maintenance Section 4-8

TORQUE SPECIFICATIONS

					orque	TOT SE	andard	raste	ners				
Nominal Dia.	threads per	C		Grade 2	0	>	Grade 5			Grade 8			Grade !
Dia.	inch	Tig	htening Tor	que	Tig	htening To	rque	Tig	htening Tor	que	Tig	htening Ton	que
	men	Lubed	Dry Plated		Lubed	Dry Plated		Lubed	Dry Plated		Lubed	Dry Plated	Dry plain
(in.)		K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K=0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20
					Uni	fied Coa	rse Threa	ad Series	1				
1/4	20	49 in-lbs	59 in-lbs	66 in-lbs	76 in-lbs	86 in-lbs	101 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs
5/16	18	101	122	135	157	178	209	221	251	295	259	294	346
3/8	16	15 ft-lbs	18 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	128	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	966	1095	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1363	1545	1817	1597	1810	2130
1 1/2	6	652	783	869	1462	1657	1950	2371	2688	3162	2779	3150	3706
						Fine Ti	nread Se	ries					
1/4	28	56 lin-lbs	68 in-lbs	75 in-lbs	87 in-lbs		100		139 in-lbs	164 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs		42 ft-lbs	49 ft-lbs	43 ft-lbs		58 ft-lbs
7/16	20	27	32	36	41	47	55	58	66	78	68	78	91
1/2	20	41	49	55	64	72	85	90	102	120	105	120	141
9/16	18	59	71	78	91	103	121	128	146	171	151	171	201
5/8	18	82	99	110	127	144	170	180	204	240	211	239	281
3/4	16	144	173	192	223	253	297	315	357	420	369	418	492
7/8	14	138	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

Torque values for 1/4 and 5/16-in series are in inch-pounds. All other torque values are in foot-pounds. K = 0.15 for "lubricated" conditions
Torque values calculated from formula T=KDF, where K = 0.17 for zinc plated and dry cor

$$\label{eq:K} \begin{split} \text{K} &= 0.17 \text{ for zinc plated and dry conditions} \\ \text{K} &= 0.20 \text{ for plain and dry conditions} \end{split}$$

D = Nominal Diameter F = Clamp Load

			Class 4.6			Class 8.8			Class 10.	3	Clas	s 12.9
		<	4.6	>		8.8	>	,	10.9	>	(12.9
Nominal	Pitch	Tigh	ntening To	rque	Tig	htening Tor	que	Tig	htening To	rque	Tightening Torqu	
		Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry plair
Dia.		K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.20
(mm)		(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)
3	0.5	0.28	0.32	0.38	0.73	0.82	0.97	1.0	1.2	1.4	1.2	1.6
3.5	0.6	0.44	0.50	0.59	1.1	1.3	1.5	1.6	1.9	2.2	1.9	2.5
4	0.7	0.66	0.74	0.87	1.7	1.9	2.3	2.4	2.7	3.2	2.8	3.8
5	0.8	1.3	1.5	1.8	3.4	3.9	4.5	4.9	5.5	6.5	5.7	7.6
6	1	2.3	2.6	3.0	5.8	6.6	7.7	8.3	9.4	11	9.7	13
6	1.25	2.1	2.3	2.7	5.3	6.0	7.0	7.6	8.6	10	8.8	12
7	1	3.8	4.3	5.0	9.7	11	13	14	16	19	16	22
8	1	5.9	6.6	7.8	15	17	20	22	24	29	25	34
8	1.25	5.5	6.2	7.3	14	16	19	20	23	27	24	31
10	1.25	11	13	15	29	33	39	42	48	56	49	66
10	1.5	11	12	14	28	32	37	40	45	53	47	62
12	1.25	21	23	28	53	60	71	76	86	101	89	119
12	1.5	20	22	26	51	58	68	73	82	97	85	113
12	1.75	19	21	25	49	55	65	70	79	93	81	108
14	1.25	26	29	34	66	75	89	95	108	127	111	148
14	1.5	28	32	37	72	82	96	103	117	138	121	161
14	2	30	34	40	78	88	104	111	126	148	130	173
16	1.5	50	57	67	129	146	171	184	208	245	215	287
16	2	47	53	62	121	137	161	173	196	230	202	269
18	1.5	73	82	97	187	212	249	268	303	357	313	417
18	2.5	65	73	86	167	189	222	239	270	318	279	372
20	2.5	91	104	122	236	267	314	337	382	449	394	525
lamp lo	ad cale	culated as	75% of th	ne proof lo	ad for spe	cified bolts	K = 0.151	for "lubrica	ated" cond	itions	D = Nomin	nal Diamete
III torqu	e value	es are list	ed in foot-	pounds			K = 0.17 1	for zinc pl	ated, dry o	onditions	F = Clamp	Load

SIDE ROTARY

LUBRICATION RECOMMENDATIONS								
DESCRIPTION	APPLICATION	GENERAL SPECIFICATION	RECOMMENDED MOBIL LUBRICANT					
Tractor Hydraulics	Reservoir	JD-20C MF M1135, M1141 FNHM2C134D (FNH201)	Mobilfluid® 424					
Mower Hydraulics Cold Temperature Normal Temperatu Normal Temperatu High Operating Te	ures 10°F Start-Up ures 15°F Start-Up	ISO 46 Anti-Wear-Low Temp JD-20C MF M1135, M1141 FNH M2C134D (FNH201) ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE 15M Mobilfluid 424 Mobil DTE 25 Mobil DTE 18M					
Flail Rear Gearbox	Grease	PAO Synthetic Extreme Pressure Gear Lube	Mobil SHC 75W-90 Mobil 1Synthetic Gear					
Cutter Shaft & Ground Roller Shaft (Flail)	Grease Gun	Lithium-Complete Extreme Pressure NLGI - ISO 320	Mobilgrease CM-S					
Drive Shaft Coupler (Flail and Rotary)	Grease Gun	Lithium-Complex Extreme Pressure NLGI 2 - ISO 320	Mobilgrease CM-S					
Drive Shaft Yoke, U-joint & Stub Shaft	Grease Gun	Lithium-Complex Extreme Pressure NLGI 2 - ISO 320	Mobilgrease CM-S					
Deck Spindle (Rotary)	Grease Gun	Tiger Part Spindle Lubricant Part Number 06540000	Mobilith SHC 220					
SIDE ROTARY	Maint	enance Section 4-10						

POLYCARBONATE CARE & MAINTENANCE

The proprietary UV and Abrasion Resistant surface coating on SHIELDS SUPERCOATED polycarbonate significantly improves performance. Periodic cleaning using proper procedures and compatible cleaners are recommended to prolong service life. Tiger Corp. polycarbonate is SUPERCOATED on both sides.

CLEANING THE SUPERCOAT HARD-COAT

- 1. Wash with a mild solution of soap or detergent and lukewarm water.
- 2. Using a soft cloth or sponge, gently wash the sheet to loosen dirt and grime and rinse well with clean water.
- 3. To prevent water spotting, thoroughly dry with chamois or cellulose sponge.
- 4. Avoid the use of abrasive cleaners, squeegees and/or other cleaning implements that may mar or gouge the coating.

CLEANING AGENTS WHICH HAVE BEEN FOUND TO BE COMPATIBLE UNDER LABORATORY CONDITIONS:

Aqueous Solutions of Soaps and Detergents

Windex Top Job Joy Mr. Clean Fantastik Formula 409 Sumalight D12 Brucodecid

Organic Solvents

Butyl Cellosolve Kerosene Hexel, F.O. 554 Naphtha (VM&P Grade)

Neleco-Placer Turco 5042

Alcohols

Methanol Isopropyl

All residual organic solvents should be removed with a secondary rinse.

GRAFFITI REMOVAL

Butyl cellosolve (for removal or paints, marking pen inks, lipstick, etc.) The use of masking tape, adhesive tape or link removal tools work well for lifting off old weathered paints.

To remove labels, stickers, etc., the use of kerosene of VM&P naphtha are generally effective. When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal.

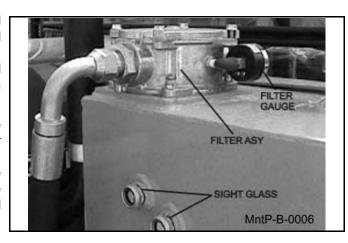
If a material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be used as a guide only and it is recommended that the user test the products under actual end-use conditions.

SIDE ROTARY Maintenance Section 4-11

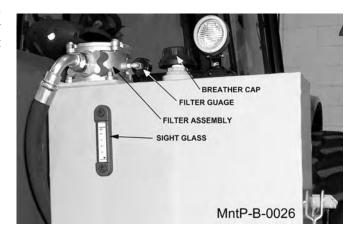
RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVOIRS

When filling or checking the oil level, the unit should be parked on a level surface., shut "OFF", and allow sufficient time to cool to ambient temperature. Use caution when removing the pressurized breather. Do not place face over opening when removing breather.

If your reservoir has two sight glasses: The reservoir should be filled to the top of the lower sight glass on the side of the tank. Do not over-fill. The reservoir has been over-filled when oil is visible in the upper sight glass. If tank has too much oil, the excess may be expelled through the pressurized breather.

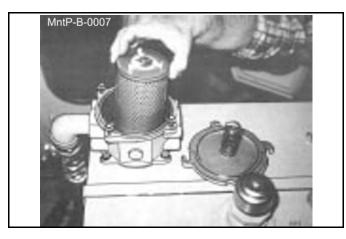


If your reservoir has one sight glass/temperature gage: The reservoir should be filled to the center of the sight glass on the side of the tank. Do not over-fill. If the tank has too much oil, the excess may be expelled through the pressurized breather



REPLACING IN-TANK HYDRAULIC FILTER

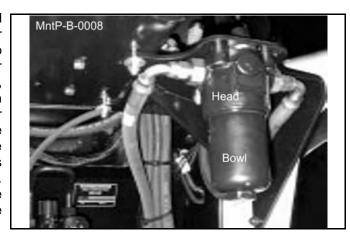
Loosen the four bolts on the top cover of the filter housing. Turn cover counter-clockwise until cover is free. Remove and replace filter. Replace top cover and cover bolts in opposite order as removed.



SIDE ROTARY

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT

Assure system has been shut down and depressurized. Locate High Pressure Filter housing. Confirm that the element that is about to be installed matches the element p/n on the filter model tag. Example: V3.0510-06 (world line 100, HD049 model) Locate the bottom of the High Pressure Bowl, and use the appropriate spanner wrench-or-ratchet and turning in a counterclockwise rotation, (looking at the bottom of the bowl) remove the bowl from the head, The first couple rotations will seem tight as the o-ring passes the sealing flats. Once the o-ring has cleared the sealing flats, the bowl should spin freely. Taking care not to drop the bowl, finish removing the bowl from the head.

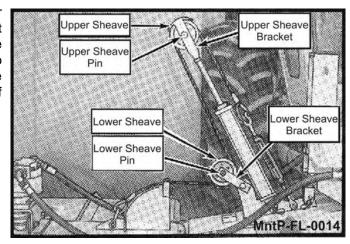


WARNING: Bowl will be full of oil! Pour the oil from the bowl into a container, this oil should be considered contaminated due to the flow direction through the element is outside-in. Clean the inside of the bowl if "dirt" is present. Remove the old element from the filter head by pulling with a rotation motion. Dispose of the used element properly. Remove the new element from the packaging. Using your finger, dab and lubricate the o-ring in the top of the new element. Install the new element into and on the mounting boss within the head; assure that the element is fully seated on the boss. Clean and inspect the o-ring that is affixed in the bowl, lubricate with oil. Using a clockwise rotation, screw the bowl back into the head, assuring that the bowl has not been cross threaded into the head. Continue to "tighten" the bowl into the head, using the spanner wrench-or-ratchet, the rotation of the bowl will become tighter once the o-ring engages the sealing flats. Once the bowl has bottomed out, "back-off" the bowl by 1/6 turn, this assures that the o-ring is seated properly with in the sealing flats. Element change out and re-assembly is now complete. Start the machine and inspect the filter area checking that there is no oil leaking from the filter assembly. This is first to be done at 50 hours of operation, then yearly (500 hours) or when indicated by restriction indicator.

SIDE ROTARY

GREASING THE UPPER AND LOWER SHEAVES

Locate the grease zerks on the ends of the upper and lower sheave pins as shown below. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into each pin until it protrudes from the ends. These should also be greased daily or for every 8 hours of service.

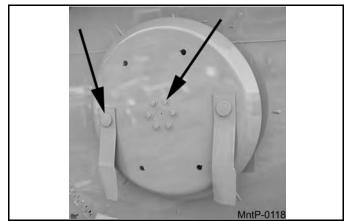


TIGHTENING BLADE BOLTS AND DISK BOLTS

After every 8 hours of operation or daily, the knife bolts and disk bolts should be tightened as follows:

Knife Mounting Bolts (3 ea.) torque to 800 oiled ft. lbs.

Disk Mounting Bolts (6 ea.) torque to 204 dry or 180 oiled ft./lbs.

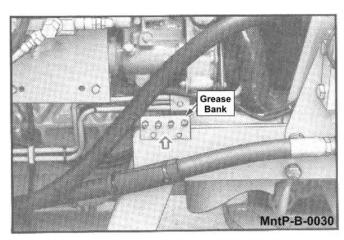


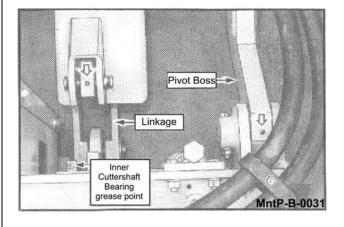
SIDE ROTARY

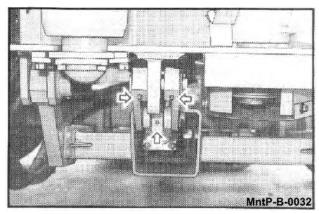
GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

Locate the grease zerks on the inner and outer draft beam pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into each zerk until grease protrudes from joints. Grease all pivots daily or every 8 hours of service.

With the cutter head lowered, locate the grease zerks on the linkage and pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until it protrudes from the ends. With the cutter head in this position it is also possible to grease the draft beam cylinder anchors and pins. Now raise the cutter head expose the remaining zerks on the deck tilt linkages and on the other end of the cylinder.

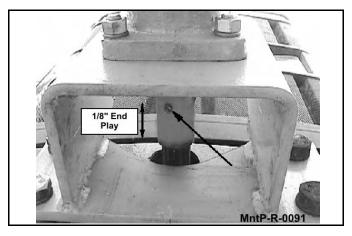






GREASING PUMP DRIVE SHAFT COUPLER

With engine stopped, ensure drive shaft alignment by grasping coupler and sliding back and forth. Coupler should slice freely with approximately 1/8" of end play. If coupler does not slide freely, inspect for loose pump mount bolts, or damaged or loose crank shaft adapter. Inject-Lithium Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into coupler until grease begins to protrude from ends. Grease daily or every 8 hours. Do not over grease.

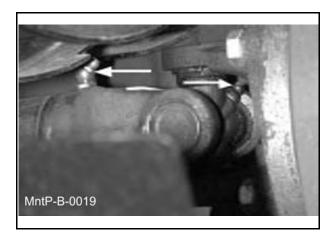


SIDE ROTARY

DRIVE SHAFT YOKE, U-JOINT & STUB SHAFT

With engine stopped, inject Lithium-Complex extreme pressure grease conforming to NLGI2-ISO 320 specifications into universal joints and slip yoke until grease appears at the seal. Grease them daily or every 8 hours.



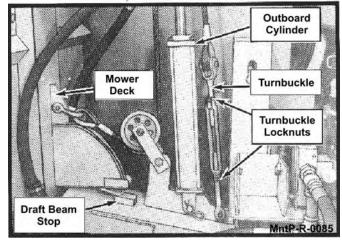


ADJUSTING THE CABLE LIFT

Extend the outboard cylinder until the mower deck touches its stop on the draft beam as shown.

NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop.

Now hold the head against the stop and tighten the turnbuckle until the cable is tight. Lower and raise the head to check the adjustment. The head should touch its stop at the same time the cylinder reaches full extension. Tighten turnbuckle lock nuts securely after adjustment is complete.



SIDE ROTARY

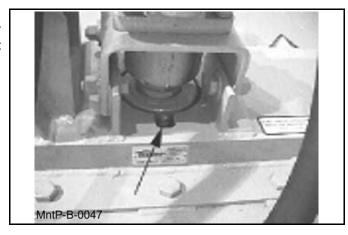
BALL VALVES

The ball valves at the hydraulic reservoir may need to be closed during certain maintenance or repair procedures. THE BALL VALVES MUST BE OPEN (handle parallel with valve) WHEN TRACTOR IS RE-STARTED OR WHEN THE PUMP IS COUPLED TO MOTOR OR P.T.O.! Failure to do so will result in component failure!



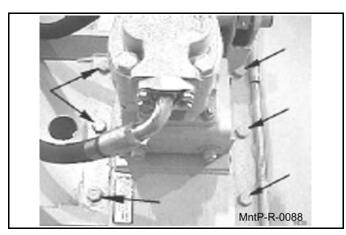
GREASING SPINDLE

Locate grease fitting on inside of deck housing. Inject Tiger Spindle Lubricant, part number 06540000 into spindle housing. Fill with lubricant until lubricant weeps out of top spindle seal. Lubricate spindle weekly or every 40 hours of use.



TIGHTENING SPINDLE BOLTS

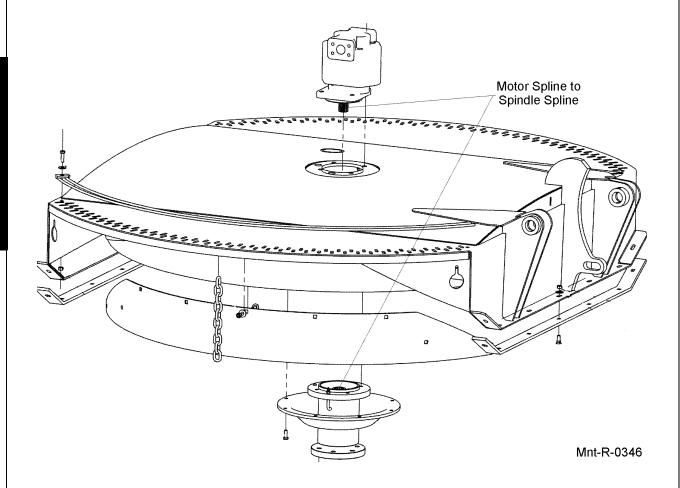
The spindle mounting bolts should be checked and retorqued daily or every 10 hours of service. Torque the (6) bolts shown below to 357 dry or 315 oiled ft. lbs.



SIDE ROTARY

GREASING MOTOR SPLINE TO SPINDLE SPLINE

For direct drive mowers, locate motor spline and spindle spline on the mower deck. Grease splines with Mobil moly 52. Use about 4 ounces of grease. Change grease yearly or every 500 hours.



SIDE ROTARY

Blades

Check the Blades for cracks and wear and Blade Bolts for tightness, daily. Blades should be replaced when they are worn excessively, bent, deformed, or out of balance.



Blades should always be replaced in pairs. Blades of different weights can cause serious imbalance and damage to the machine and personnel. When replacing blades, take care to replace the blade bolts, nuts, and washers.

Important

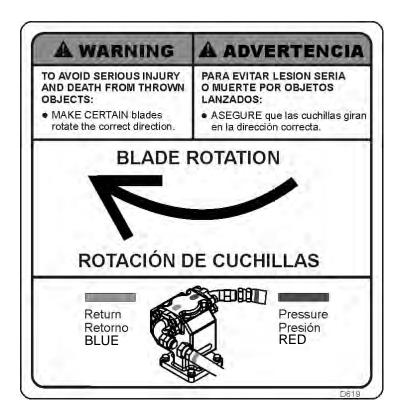
Make sure the mower blades are turning clockwise when looking down from the top of the mower. Follow the color coding on the hydraulic hoses and fittings to make sure the motor and hydaulics hoses are assembled properly. Connect the red hose connection only to red fitting. Connect the blue hose connection only to the blue fitting. The blade rotation on the leading edge of the mower should discharge the cut material away from the tractor and operator.



AWARNING

If the leading edge of the mower blades are rotating backwards they can discharge material toward the operator. If this occurs discontinue mowing immediately and revers the direction of the motor rotation by correctly installing the motor pressure and return hoses. Contact your dealer or Alamo Industrial for specific information on the hose routing.





SIDE ROTARY

ROTARY KNIFE REPLACEMENT

- 1. Be sure you have a complete matching set of new knives for replacement.
- 2. Remove knives and inspect holes for damage. Also watch for cracks in the disk around the holes.
- 3. Lube threads with anti-seize, motor oil or grease. Install bolts through knife and disk from bottom side of disk. Install new self-locking nuts and torque them to 800 ft. lbs.
- 4. The knives should swing freely to absorb shocks from impact when striking objects.

AWARNING

WHEN CUTTING HEAVY BRUSH, KNIFE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 1070 DRY OR 800 OILED FT./LBS.

REPLACEMENT OF ROTARY DISK

▲ CAUTION

Failure to follow the following warnings and instructions may result in serious injury or damage to the equipment or property!

The bolts that attach the knife mounting disk to the spindle must be grade 8. These 5/8 inch bolts are to be torqued according to the chart in this section.

A thread locking agent may be applied to threads of all mounting bolts before they are installed.

Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knife mounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present, the disk must be replaced.

Inspect the disk mounting bolts daily when checking tightness of blade mounting bolts. If a disk mounting bolt is loose, it must be removed, threads cleaned, fresh thread locking agent applied, and tightened to proper torque value.

If a knife mounting bolt is loose, the self locking nut must be replaced as a safety precaution. Lubricate threads with anti-seize, grease or motor oil. Place bolts through knife and disk from bottom side of disk. Install self locking nuts and torque them to 800 ft. lbs.

- WARNING: The disk alone weighs over 100 lbs. Be sure its weight can be supported before attempting to replace. The use of a lift mechanism will ease replacement.
- 2. Remove the six disk mounting bolts and the disk from the spindle.
- 3. Install new disk and align with mounting bolt holes.
- 4. Apply a thread locking agent to all of the mounting bolts and install the bolts through the disk.

NOTE: Disk bolts must be Grade 8.

- 5. Tighten bolts down and torque to values noted.
- 6. See knife replacement instructions for replacing the knives onto the new disk.

SIDE ROTARY

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

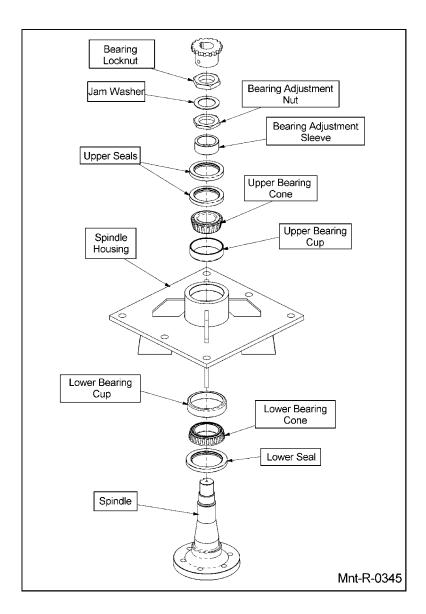
A press MUST be used to install bearing cups, bearing cones, and seals. DO NOT use a hammer to install races, bearings, or seals. The parts of assembly may be damaged.

NOTE: The grease zerk and gussets are located on the top side of the spindle housing. Be sure the spindle is assembled correctly.

Be sure to wear eye protection and other protective equipment as needed when working on spindle assembly.

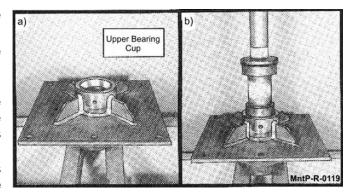
THE SPINDLE ASSEMBLY

See the diagram below for identification of spindle parts, while servicing.



BEARING INSTALLATION

- 1. Press upper bearing cup into the spindle housing
- 2. Turn the spindle housing over and press in the lower bearing cup.
- Place the lower bearing cone in the bearing cup. Next press the seal into the spindle housing. The inner lip of the seal must be DOWN, towards the bearing, so lubricant is sealed inside the housing.
- 4. Install the spindle in the housing. Lightly press the end of the spindle to seat the spindle against the bearing inner race.



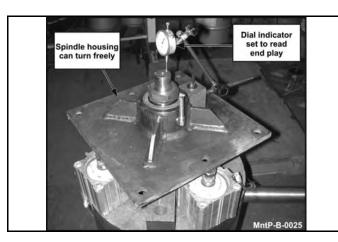
- 5. Turn the spindle housing over (up position) and fill with Tiger Spindle Lubricant (part number 06540000) to the top edge of the upper bearing cup.
- 6. Support the bottom of the spindle and press the upper bearing cone and bearing adjustment sleeve onto the spindle.

NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.

- 7. Press the two upper seals into the spindle housing. The inner lip of the seals must be UP, away from the bearing, so excess lubricant can escape.
- 8. Install the bearing adjustment nut (thin nut) so there is 1-1/6" clearance between the nut and the sleeve. Install the jam washer, placing the tab into the key-way. Install the bearing lock nut (thin nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.

BEARING ADJUSTMENT

- 1. Clamp the bottom end of the spindle securely in a vise so the spindle housing turns freely.
- Position a magnetic base dial indicator on the outer diameter of the spindle housing. Locate the end of the dial indicator against the flat end of the spindle shaft. The dial indicator will now measure accurately bearing end play.
- 3. Tighten the bearing adjustment nut until there is 0.012 inch movement when the spindle housing is pried upward away from the vise jaws.
- 4. When there is 0.012 inch free play between the spindle and housing, install the bearing lock nut (thick nut). Hold the adjusting nut securely and tighten the lock nut to 300 ft. lbs. of torque.



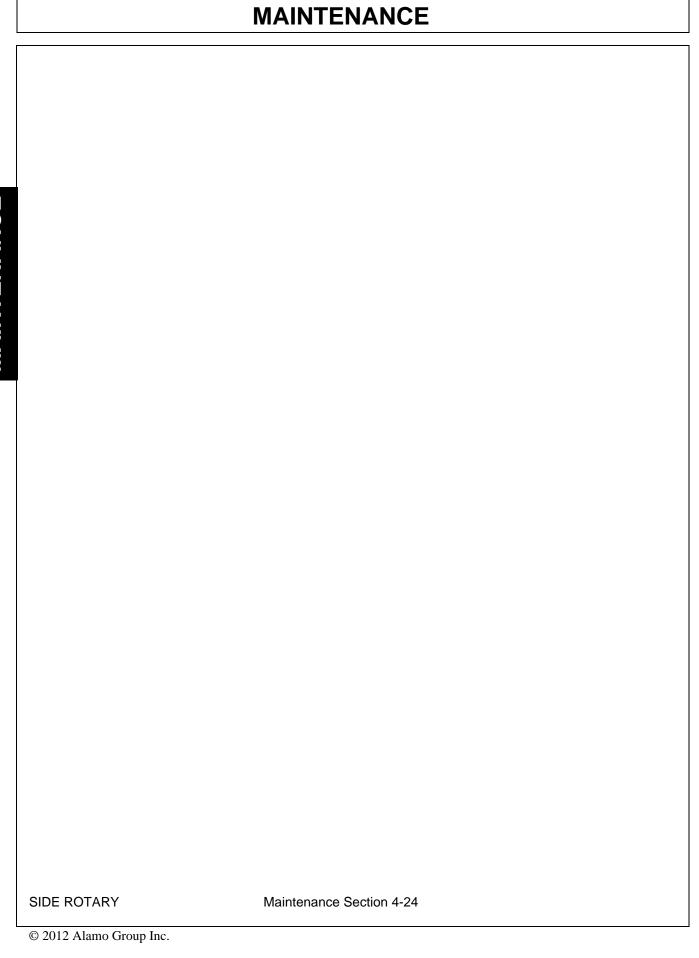
5. After the lock nut is tightened, there must be 0.001 inch to 0.003 inch of free play when lightly prying up on the spindle housing.

If the end play is correct, 0.001 inch to 0.003 inch, bend tabs up on jam washer to prevent the lock nut from loosening.

If the end play is NOT correct, loosen the lock nut and turn the adjustment nut as required and re-tighten the lock nut. Repeat first part of step 5.

SIDE ROTARY

DAILY MAINTENANCE SCHEDULE						
The following services should be performed daily or every 8 hours of service, following the detailed maintenance instructions in the operators manual.						
Pump Drive Shaft:	Check for end play in driveshaft / coupler and lubricate at zerks.					
Crankshaft adapter: If equipped with rubber grommets check condition, replace if missing or damaged.						
Pivot points: Inject	Pivot points: Inject grease until it appears at ends.					
Hydraulic fittings: immediately	Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or replace hose immediately					
Knives: Inspect for	missing or damaged knives, change (only complete sets) as needed.					
Belts: Check/Tighte	en/Replace belts as needed.					
Main Frame/Deck: this section.	: Unless otherwise specified retorque bolts according to torque specifications in					
Hydraulic Fluid Lev	vel: Add, if required, per fluid recommendations.					
Rear Flail Drive, I detailed maintenar	Bearing Flange and Shaft Couplers (if applicable): Grease as instructed in the nce section.					
Cutter Shaft and G	Fround Roller: Grease as instructed in the detailed Maintenance Section.					
Service performed by:	Date:/Hour					
Meter:						
Maintenance Section						
**This page may be copied a	and used as part of the daily maintenance routine.					
SIDE ROTARY	Maintenance Section 4-23					



NH T5000 SIDE ROTARY PARTS SECTION

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PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- 2. The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.
- 3. The purchase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.
 - 4. The manufacturer reserves the right to substitute parts where applicable.
- 5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
 - 6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.

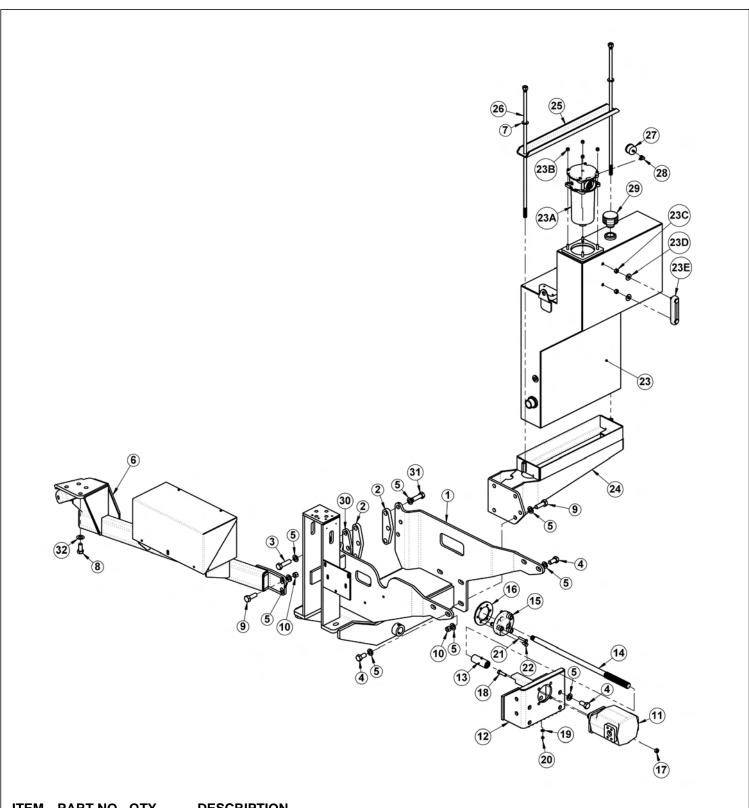


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

TRACTOR MOUNT KIT, SIDE TANK



ITEM PART NO. QTY. **DESCRIPTION**

06300025 MAIN FRAME 2 06400342 2 SPACER,3/4",MNFRM

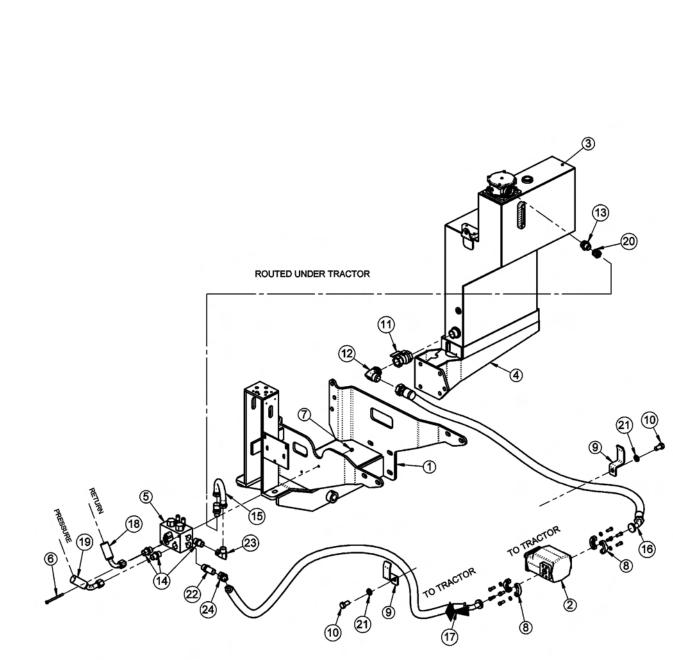
TRACTOR MOUNT KIT, SIDE TANK

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ITEM	PART NO.	QTY.	DESCRIPTION
3	32285	3	CAPSCREW,20MM X 75MM,2.5P
4	24860	5	CAPSCREW,20MM X 40MM,2.5P
5	33880	21	FLATWASHER,3/4",SAE
6	06300039	1	AXL BRC,RH
7	33764	6	FLATWASHER,5/8",SAE
8	06530509	4	CAPSCREW,18MM X 40MM,1.5P
9	21833	6	CAPSCREW,3/4" X 2-1/4",NC
10	21825	6	HEX NUT,3/4",NC
11	23152	1	PUMP
12	06370036	1	PUMP MNT
13	6T0375B	1	COUPLING,14 SPLINE,W/ZERK
14	34624	1	DRV SHF,PMP,28-13/16" (TL80-90A TRACTOR)
	06420096	1	DRV SHFT,32-1/2".LH THRD (T5000 TRACTOR)
15	06700035	1	ADAPTER,CRANKSHAFT,ASSY
15A	06420029	1	ADAPTER,CRANKSHAFT
15B	24937	3	FLATWASHER,7/16",SAE
15C	06420030	3	GROMMET
15D	06537004	3	WASHER, NEOPRENE
15E	6T3218	3	GROMMET,RUBBER
16	06420031	1	SPACER,CRANKSHAFT
17	21725	1	HEX NUT,1/2",NC
18	21732	1	CAPSCREW,1/2" X 1-3/4",NC
19	22014	1	FLATWASHER,1/4"
20	32519	1	NUT,WING,1/4-20,UNC
21	22254	3	CAPSCREW,10MM X 50MM,1.5P
22	33534	3	CAPSCREW,10MM X 20MM,1.5P
23	06700090	1	TANK,RES,ASSY
23A	06505044	1	FILTER,ASSY
23B	21627	4	NYLOCK NUT,3/8",NC
23C	21725	2	HEX NUT,1/2",NC
23D	22018	2	FLATWASHER,1/2",WIDE
23E	06505067	1	SIGHT GUAGE
24	06300088	1	MNT,TANK
25	06410352	1	CHANNEL,MNT,TANK,TIE-BOLT
26	06380014	2	TIE BOLT,SIDE TANK,HYDRO
27	6T0649	1	FILTER GAUGE
28	TF4888	1	STREET ELBOW,1/8" X 90°
29	06505077	1	CAP,BREATHER,O-RING
30	06400419	1	SPACER,1/2",MNFRM
31	24879	3	CAPSCREW,20MM X 65MM,2.5P
32	06533005	4	FLATWASHER,18MM

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TRACTOR MOUNT KIT, SIDE TANK - HYDRAULICS



NOTES:

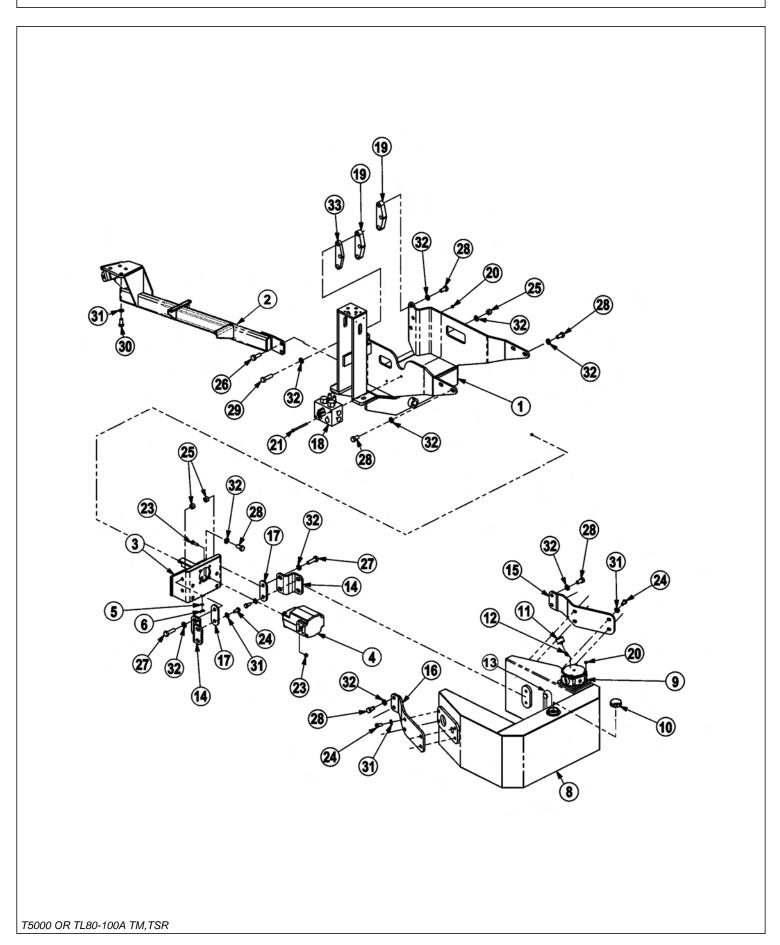
1. LOOP THE HOSE FROM THE PUMP TO THE BRAKE VALVE AND THE HOSE FROM THE BRAKE VALVE TO THE TANK THROUGH THE HOSE BRACKET.

TRACTOR MOUNT KIT, SIDE TANK - HYDRAULICS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAINFRAME *REFER TO TRACTOR MOUNT KIT PAGE
2		-	PUMP *REFER TO TRACTOR MOUNT KIT PAGE
3		-	TANK, ASSY *REFER TO TRACTOR MOUNT KIT PAGE
4	06300080	1	MNT,TANK (TL80-90A TRACTOR)
	06300088	1	MNT,TANK (T5000 TRACTOR)
5	06510083	1	VALVE,BRAKE,SOL,3000PSI
6	21644	1	CAPSCREW,3/8" X 5",NC
7	21627	3	NYLOCK NUT,3/8",NC
8	TF4852	2	KIT, FLANGE,#20
9	32382	2	BRACKET,HOSE
10	24860	3	CAPSCREW,20MM X 40MM,2.5P
11	34309	1	BALL VALVE,1-1/2"FOR
12	34655	1	ELBOW,1-1/2"MOR X 1-1/2"MJ
13	34064	1	ADAPTER,1-1/4"MOR X 1"MJ
14	33555	3	ADAPTER,1"MOR X 1"MJ
15	06506012	1	PRFRMD,BRKVLV,4" X 1"FJX X 1"FJX 180°
16	06500393	1	HOSE,1-1/2" X 67"
17	34258	1	HOSE,1" X 56"
18	06500222	1	HOSE,RETURN (60" ROTARY MOWERS)
	06500224	1	HOSE,RETURN (72" ROTARY MOWERS)
19	06500221	1	HOSE,PRESSURE (60" ROTARY MOWERS)
	06500223	1	HOSE,PRESSURE (72" ROTARY MOWERS)
20	06500387	1	HOSE,1" X 81"
21	33880	2	FLATWASHER,3/4",SAE
22	32869	1	ADAPTER,NIPPLE,LONG
23	33259	1	ELBOW,1"MJ X 1"FJX
24	24724	1	ELBOW,45°

TRACTOR MOUNT KIT, BUMPER TANK

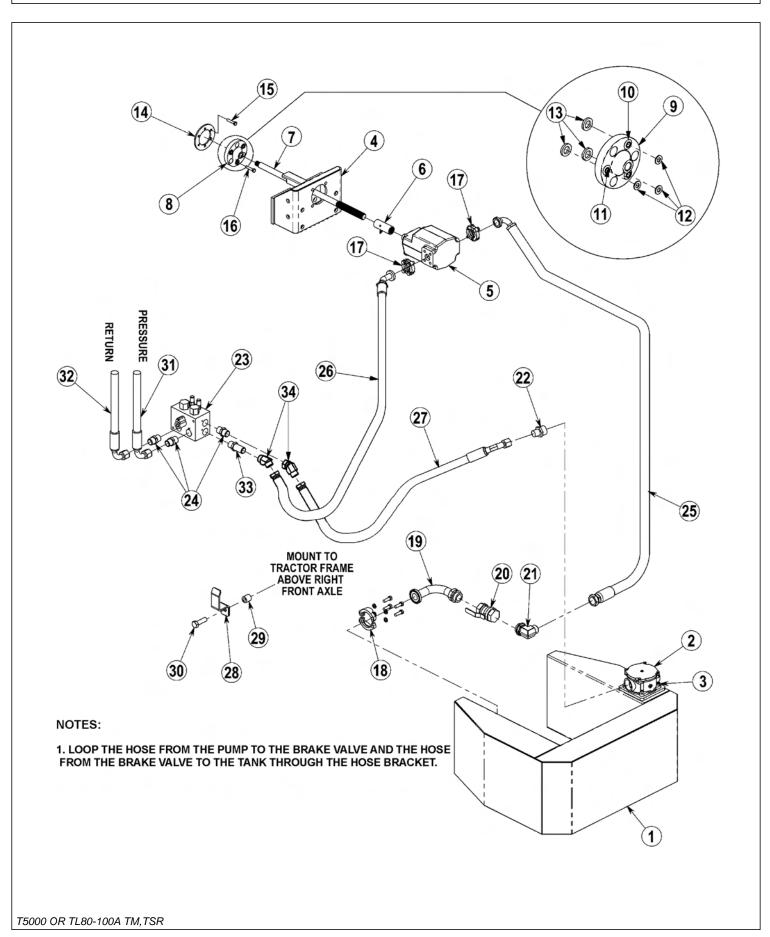


TRACTOR MOUNT KIT, BUMPER TANK

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300025	1	MAIN FRAME
2	06300039	1	AXL BRC,RH
3	06370036	1	PUMP MNT
4	23152	1	PUMP
5	22014	1	FLATWASHER,1/4"
6	32519	1	NUT,WING,1/4-20,UNC
	34666	1	TANK,RES,BUMP,ASSY
8	33695	1	TANK,RES,BUMPER,BLANK
9	06505044	1	FILTER ASSY,10MIC
10	06505077	1	CAP,PRESSURE,3.0PSI
11	6T0649	1	FILTER GAUGE
12	TF4887	1	STREET ELBOW,1/8" X 45°
13	06505067	1	SIGHT GLASS,TANK
14	06410150	2	PLATE,SM,MNT,RES TANK
15	06410314	1	MNT,TANK,HYDRO,RH
16	06410315	1	MNT,TANK,HYDRO,LH
17	06400165	4	SPACER,COOLER,FRONT
18	06510083	1	VALVE,BRAKE,SOL,3000PSI
19	06400342	2	SPACER,3/4",MNFRM
20	21627	6	NYLOCK NUT,3/8",NC
21	21644	2	CAPSCREW,3/8" X 5",NC
22	21725	4	HEX NUT,1/2",NC
23	21732	4	CAPSCREW,1/2" X 1-3/4",NC
24	21780	12	CAPSCREW,5/8" X 1-1/4",NC
25	21825	6	HEX NUT,3/4",NC
26	21833	2	CAPSCREW,3/4" X 2-1/4",NC
27	21835	4	CAPSCREW,3/4" X 2-3/4",NC
28	24860	15	CAPSCREW,20MM X 40MM,2.5P
29	32285	3	CAPSCREW,20MM X 75MM,2.5
30	06530509	4	CAPSCREW,18MM X 40MM,1.5P
31	33764	16	FLATWASHER,5/8",SAE
32	33880	24	FLATWASHER,3/4",SAE
33	06400419	1	SPACER,1/2", MNFRM

TRACTOR MOUNT KIT, BUMPER TANK - HYDRAULICS

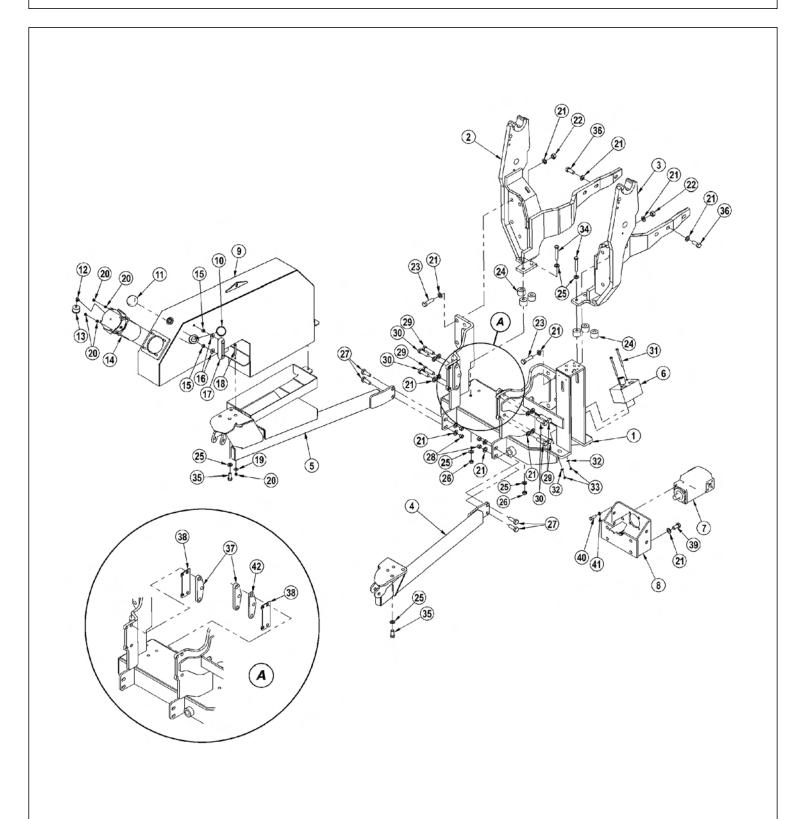


TRACTOR MOUNT KIT, BUMPER TANK - HYDRAULICS

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ITEM	PART NO.	QTY.	DESCRIPTION
1		-	TANK,BUMPER *REFER TO TRACTOR MOUNT KIT PAGE
2		-	FILTER ASSY *REFER TO TRACTOR MOUNT KIT PAGE
3		-	NYLOCK NUT *REFER TO TRACTOR MOUNT KIT PAGE
4		-	PUMP MNT *REFER TO TRACTOR MOUNT KIT PAGE
5		-	PUMP *REFER TO TRACTOR MOUNT KIT PAGE
6	6T0375B	1	COUPLING,14 SPLINE,W/ZERK
7	34624	1	DRV SHF,PMP,29" (TL80-90A TRACTOR)
	06420096	1	DRV SHFT,32.5,LH THRD (T5000 TRACTOR)
8	06700035	1	ADAPTER,CRANKSHAFT,ASSY
9	06420029	1	ADAPTER,CRANKSHAFT
10	6T3218	3	GROMMET,RUBBER
11	06420030	3	GROMMET,10MM X .78"
12	24937	3	FLATWASHER,7/16",SAE
13	06537004	3	WASHER,NEOPRENE,.75" X 1.25" X .19"
14	06420031	1	SPACER,CRANKSHAFT
15	33534	3	CAPSCREW,10MM X 20MM,1.5P
16	22254	3	CAPSCREW,10MM X 50MM,1.5P
17	TF4852	2	KIT,FLANGE,#20
18	TF4431	1	KIT,FLANGE,#32
19	34389	1	ELBOW,1-1/2"MOR X 2"FLG90°
20	34309	1	BALL VALVE,1-1/2"FOR
21	06503054	1	ELBOW,1-1/2MOR X 1-1/4"MJ
22	34064	1	ADAPTER,1-1/4"MOR X 1"MJ
23	06510083	1	VALVE,BRAKE,SOL,3000PSI
24	33555	4	ADAPTER,1"MOR X 1"MJ
25	06500214	1	HOSE,1-1/4" X 29"
26	06500232	1	HOSE,1" X 63"
27	06500233	1	HOSE,1" X 83"
28	32382	1	BRACKET,HOSE
29	34229	1	SPACER
30	24879	1	CAPSCREW,20MM X 65MM,2.5P
31	06500221	1	HOSE,PRESSURE (60" ROTARY MOWERS)
	06500223	1	HOSE,PRESSURE (72" ROTARY MOWERS)
32	06500222	1	HOSE,RETURN (60" ROTARY MOWERS)
	06500224	1	HOSE,RETURN (72" ROTARY MOWERS)
33	32869	1	ADAPTER,1"MOR X 1"MJ,LONG
34	24724	2	SWIVEL,1"MJ X 1"FJX 45°
	02982761	1	BATTERY RELOCATION KIT (TL80-90A TRACTOR)
	02986418	1	BATTERY RELOCATION KIT (T5000 TRACTOR)

TRACTOR MOUNT KIT, LOADER



ITEM PART NO. QTY.

DESCRIPTION

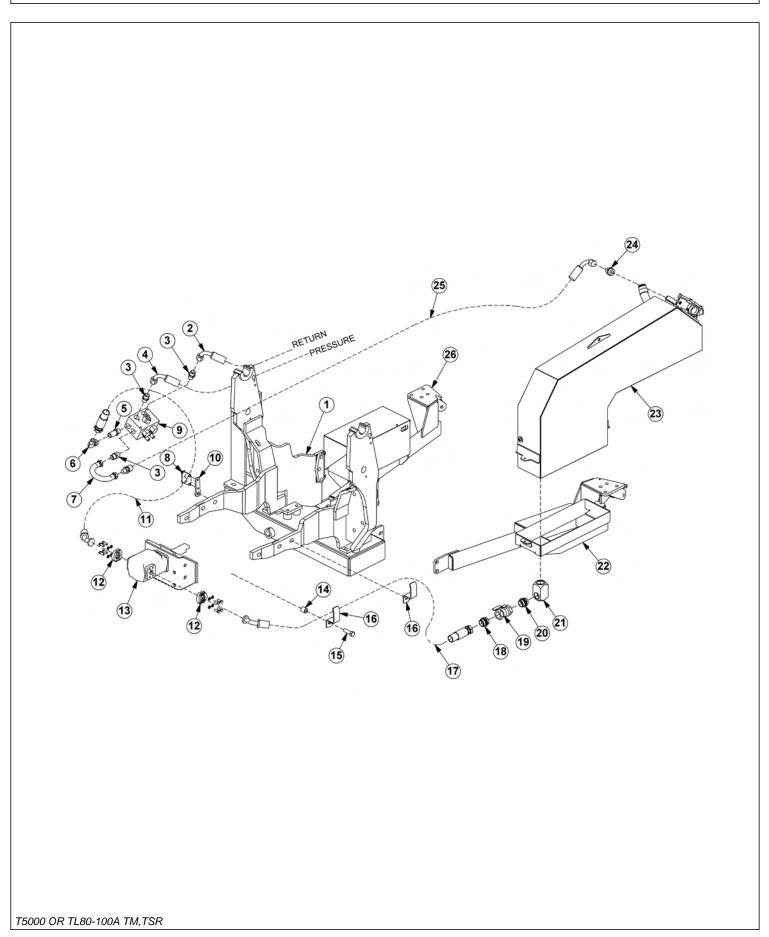
1 06300062 1 2 10386925 1 MAINFRAME,LOADER LOADER MNT,LH,CNH

TRACTOR MOUNT KIT, LOADER

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ITEM	PART NO.	QTY.	DESCRIPTION
3	10386926	1	LOADER MNT,RH,CNH
4	06300039	1	AXL BRC,RH
5	06300071	1	AXLE BRC,ASSY
6	06510083	1	VALVE,BRAKE,SOL,3000PSI
7	23152	1	PUMP
8	06370036	1	PUMP MNT
	06700091	1	TANK,RES,ASSY,WHEEL WELL
9	06380015	1	TANK,RES,WHEEL WELL
10	06505127	1	PLUG,#20,SAE
11	06505077	1	CAP,PRESSURE,3.0PSI
12	TF4888	1	STREET ELBOW,1/8"
13	6T0649	1	FILTER GAUGE
14	06505044	1	FILTER ASSY,CPLT
15	21725	2	HEX NUT,1/2",NC
16	22018	2	FLATWASHER,1/2",WIDE
17	06505067	1	SIGHT GAGE
18	21639	2	CAPSCREW,3/8" X 3-1/4",NC
19	22016	2	FLATWASHER,3/8"
20	21627	6	NYLOCK NUT,3/8",NC
21	33880	38	FLATWASHER,3/4",SAE
22	31722	8	HEX NUT,20MM,2.5P
23	32285	8	CAPSCREW,20MM X 75MM,2.5P
24	06430069	6	SPCR,LDR,MNT
25	33764	20	FLATWASHER,5/8",SAE
26	32838	6	HEX NUT,5/8",NC
27	21833	4	CAPSCREW,3/4" X 2-1/4",NC
28	21825	4	HEX NUT,3/4",NC
29	28399	4	CAPSCREW,20MM X 80MM,2.5P
30	25341	4	CAPSCREW,20MM X 70MM,2.5P
31	21644	2	CAPSCREW,3/8" X 5",NC
32	21988	2	LOCKWASHER,3/8"
33	21625	2	HEX NUT,3/8",NC
34	27933	6	CAPSCREW,5/8" X 4",NC
35	06530509	8	CAPSCREW,18MM X 40MM,1.5P
36	31731	6	CAPSCREW,20MM X 50MM,2.5P
37	06400342	2	SPACER,3/4",MNFRM
38	06400662	2	SPACER,LOADER MNT,3/16"
39	24860	4	CAPSCREW,20MM X 50MM,2.5P
40	21732	4	CAPSCREW,1/2" X 1-3/4",NC
41	21990	4	LOCKWASHER,1/2"
42	06400419	1	SPACER,1/2",MNFRM

TRACTOR MOUNT KIT, LOADER - HYDRAULICS

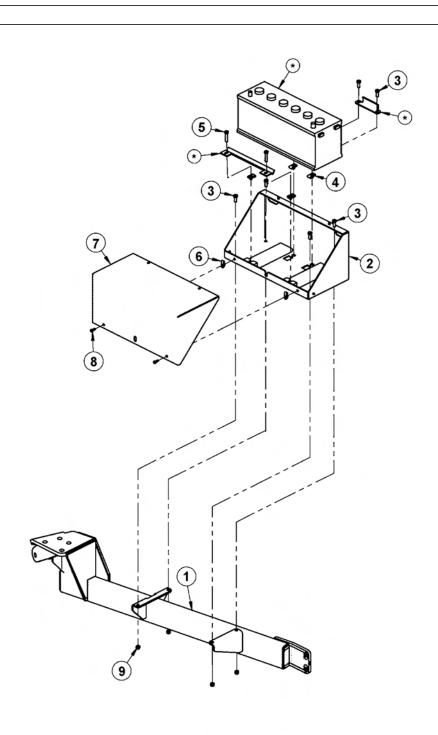


TRACTOR MOUNT KIT, LOADER - HYDRAULICS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAINFRAME,LOADER *REFER TO TRACTOR MOUNT KIT PAGE
2	06500222	1	HOSE,RETURN (60" ROTARY MOWERS)
	06500224	1	HOSE,RETURN (72" ROTARY MOWERS)
3	33555	3	ADAPTER,1"MOR X 1"MJ
4	06500221	1	HOSE,PRESSURE (60" ROTARY MOWERS)
	06500223	1	HOSE,PRESSURE (72" ROTARY MOWERS)
5	32869	1	ADAPTER,NIPPLE,1"MOR X 1"MJ
6	33259	1	ELBOW,1"MJ X 1"FJX
7	06506012	1	PREFORMED TUBE,180°
8	06505017	1	CLAMP,HOSE
9		-	VALVE,BRAKE *REFER TO TRACTOR MOUNT KIT PAGE
10	06400683	1	PLATE,HOSE CLAMP
11	06500274	1	HOSE,1" X 74"
12	TF4852	2	KIT,FLANGE,#20
13		-	PUMP *REFER TO TRACTOR MOUNT KIT PAGE
14	34229	1	SPACER,3/4"ID X 1-1/4" LONG
15	24879	1	CAPSCREW,20MM X 65MM,2.5P
16	32382	2	BRACKET,HOSE
17	06500290	1	HOSE,1-1/4" X 111"
18	06503085	1	ADAPTER,1-1/4"MJ X 1-1/2"MOR
19	34309	1	BALL VALVE,1-1/2"FOR
20	06503083	1	ADAPTER,1-1/2"MOR X 1-1/2"MOR
21	06503084	1	ADAPTER,1-1/2"FOR X 1-1/2"FOR,MACH
22		-	AXLE BRACE,LH *REFER TO TRACTOR MOUNT KIT PAGE
23		-	TANK,HYD *REFER TO TRACTOR MOUNK KIT PAGE
24	34064	1	ADAPTER,1-1/4"MOR X 1"MJ
25	06500218	1	HOSE,1" X 118"
26		-	AXLE BRACE,RH *REFER TO TRACTOR MOUNT KIT PAGE
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BATTERY RELOCATION



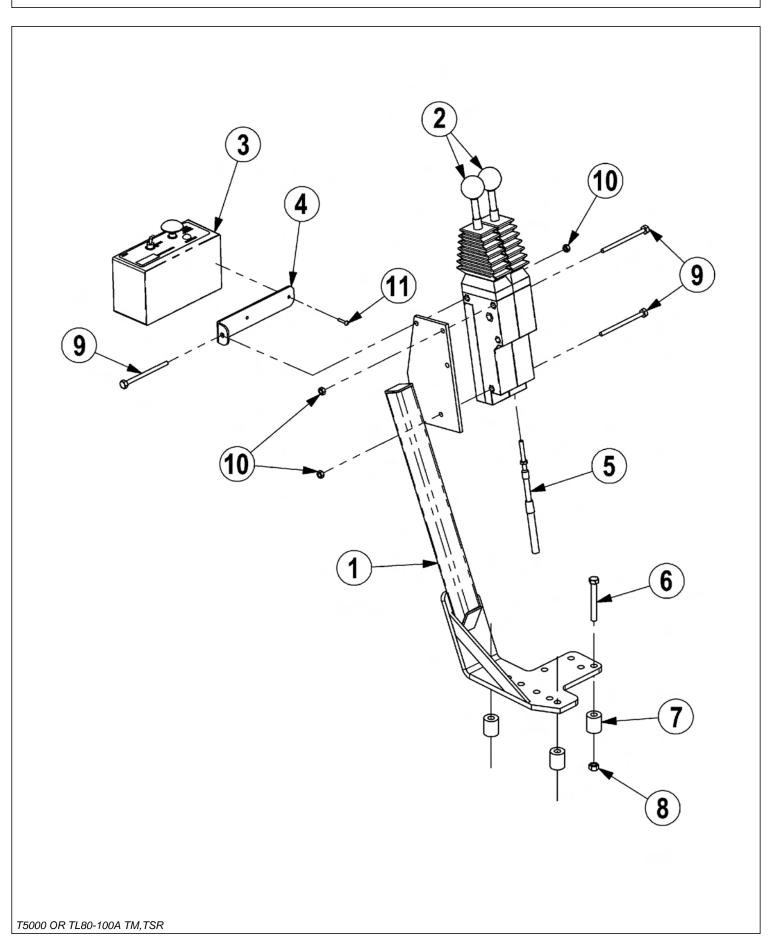
* EXISTING TRACTOR PARTS RELOCATE AS SHOWN

BATTERY RELOCATION

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	AXLE BRACE,RH *REFER TO TRACTOR MOUNT KIT PAGE
2	06370155	1	BOTTOM,BOX,BATT
3	21630	6	CAPSCREW,3/8" X 1",NC
4	06537029	4	U-NUT,3/8",NC,3/4" TO CENTER
5	21633	2	CAPSCREW,3/8" X 1-3/4",NC
6	35176	2	U-NUT,1/4",NC,3/4" TO CENTER
7	06411112	1	TOP,BOX,BATT
8	21529	2	CAPSCREW,1/4" X 3/4",NC
9	21627	4	NYLOCK NUT,3/8",NC

2 SPOOL CABLE CONTROL MOUNT

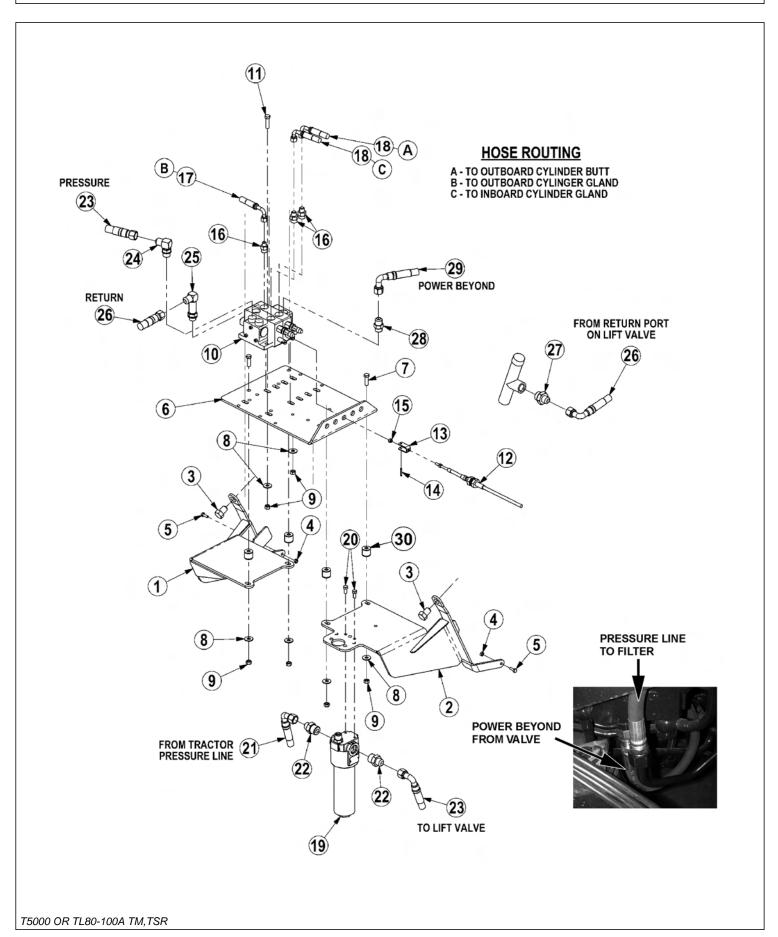


2 SPOOL CABLE CONTROL MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	23865B	1	CBL CTRL MT BRK
2	6T1251	2	CBL CTRL BOX,180 DEG
3	06510102	1	SWITCH BOX,SIDE
4	34496	1	BRKT,SWITCH BOX
5	34623	2	CBL,CNTRL,122"
6	21637	3	CAPSCREW,3/8" X 2-3/4",NC
7	27082B	3	SPACER
8	21627	3	NYLOCK NUT,3/8",NC
9	21542	3	CAPSCREW,1/4" X 4",NC
10	21525	3	HEX NUT,1/4",NC
11	32359	2	SCREW,MACHINE,8-32 X 3/4"
	TB3440	1	TRIM LOCK (NOT SHOWN)

CABLE (MANUAL) LIFT VALVE - 2 SPOOL

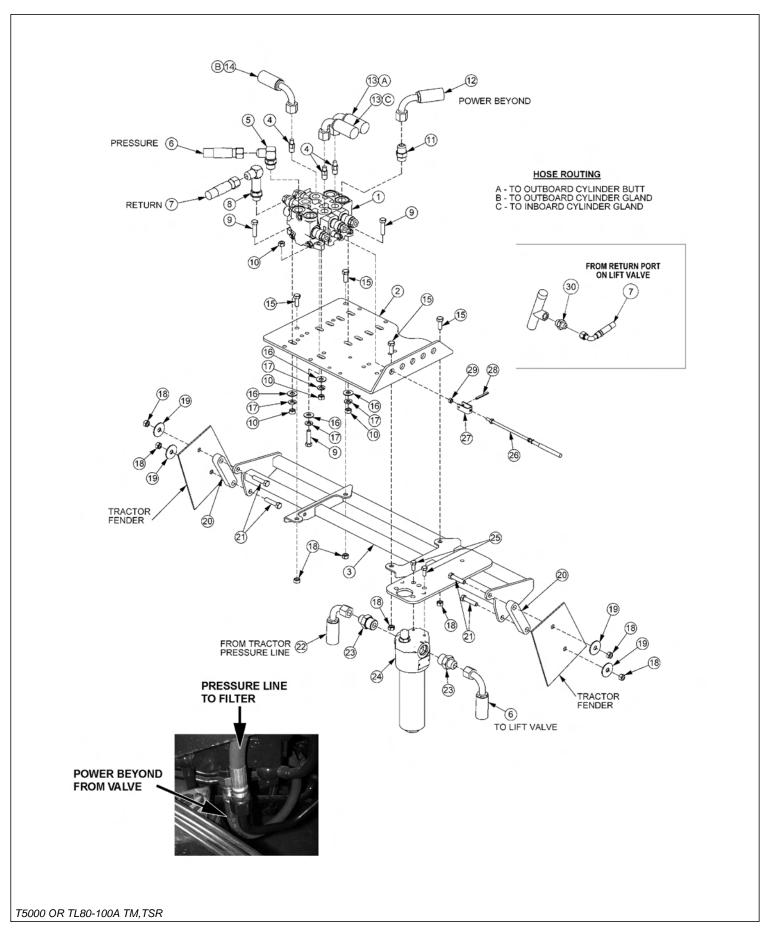


CABLE (MANUAL) LIFT VALVE - 2 SPOOL

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06340020	1	VALVE MNT,LH
2	06340021	1	VALVE MNT,RH
3	06530510	2	CAPSCREW,18MM X 25MM,1.5P
4	21527	2	NYLOCK NUT,1/4",NC
5	21529	2	CAPSCREW,1/4" X 3/4",NC
6	34622	1	PLATE, VALVE, REAR MNT
7	21636	4	CAPSCREW,3/8" X 2-1/2",NC
8	22016	8	FLATWASHER,3/8"
9	21627	8	NYLOCK NUT,3/8",NC
10	30801	1	VALVE,2 SPOOL
11	21632	4	CAPSCREW,3/8" X 1-1/2",NC
12	34623	2	CBL,CNTRL,122"
13	6T4411	2	CLEVIS,CBL CTRL,3/16"
14	6T3017	2	ROLLPIN,3/16" X 1"
15	21500	2	HEX NUT,1/4",NF
16	33271	3	ADAPTER,1/2"MOR X 3/8"MJ
17	34631	1	HOSE,1/4" X 126"
18	34632	2	HOSE,1/4" X 115"
19	06505029	1	FILTER,HIGH PRESSURE
20	21579	2	CAPSCREW,5/16" X 3/4",NC
21	06500229	1	HOSE,5/8" X 64"
22	06503056	2	ADAPTER,3/4"MOR X 5/8"MJ
23	06500235	1	HOSE,5/8" X 49"
24	06503033	1	ELBOW,5/8"MOR X 5/8"MJ
25	33748	1	ELBOW,5/8"MOR LONG X 5/8"MJ
26	06500236	1	HOSE,5/8" X 38"
27	06503059	1	ADAPTER,3/4"BSPP X 5/8"MJ
28	06503036	1	ADAPTER,5/8"MOR X 5/8"MJ
29	06500234	1	HOSE,5/8" X 65"
30	27082B	4	SPACER

CABLE (MANUAL) LIFT VALVE, NON-CAB - 2 SPOOL



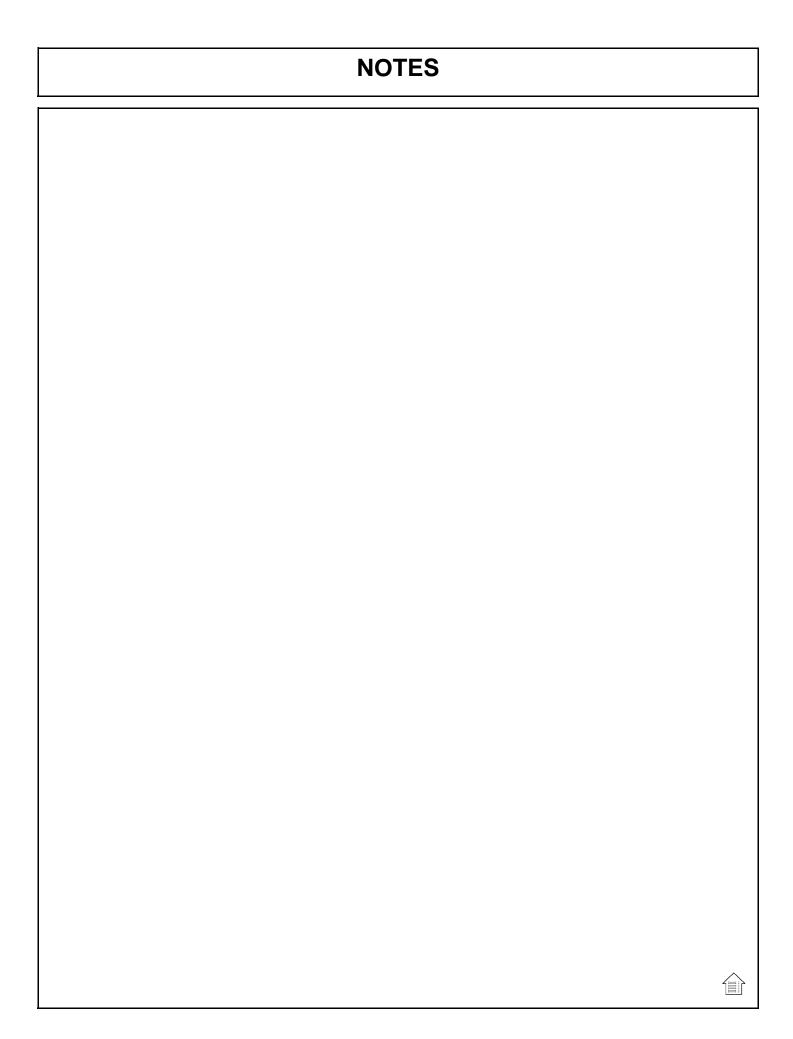
CABLE (MANUAL) LIFT VALVE, NON-CAB - 2 SPOOL

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	30801	1	VALVE, 2 SPOOL
2	34622	1	VALVE MOUNTING PLATE
3	06340025	1	VALVE MOUNTING BRACKET
4	33271	3	ADAPTER,1/2"MOR X 3/8"MJ
5	06503033	1	ELBOW,5/8"MOR X 5/8"MJ
6	06500235	1	HOSE,5/8" X 49"
7	06500236	1	HOSE,5/8" X 38"
8	33748	1	ELBOW,5/8"MOR LONG X 5/8"MJ
9	21632	4	CAPSCREW,3/8" X 1-1/2", NC
10	21625	4	HEX NUT,3/8",NC
11	06503036	1	ADAPTER,5/8"MOR X 5/8"MJ
12	06500234	1	HOSE,5/8" X 65"
13	34632	2	HOSE,1/4" X 115"
14	34631	1	HOSE,1/4" X 126"
15	21631	4	CAPSCREW,3/8" X 1-1/4",NC
16	22016	4	FLATWASHER,3/8"
17	21988	4	LOCKWASHER,3/8"
18	21627	8	NYLOCK NUT,3/8",NC
19	6T2615	4	FENDER WASHER,3/8"
20	06400458	2	SPACER
21	21633	4	CAPSCREW,3/8" X 1-3/4",NC
22	06500229	1	HOSE,5/8" X 64"
23	06503056	2	ADAPTER,3/8"MOR X 5/8"MJ
24	06505029	1	FILTER
25	21579	2	CAPSCREW,5/16" X 3/4",NC
26	34623	2	CBL CNTRL,122"
27	6T4411	2	CLEVIS,CBL CNTRL
28	6T3017	2	ROLLPIN,3/16" X 1",SS
29	21500	2	HEX NUT,1/4",NF
30	06503059	1	ADPTR,3/4"BSPP X 5/8"MJ
	06810000	1	KIT,WOC (NOT SHOWN)

NOTES 1	
NOTES	
T5000 OR TL80-100A TM,TSR	

COMMON SIDE ROTARY PARTS SECTION



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PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- 2. The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.
- 3. The pur chase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.
 - 4. The manufacturer reserves the right to substitute parts where applicable.
- 5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
 - 6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.

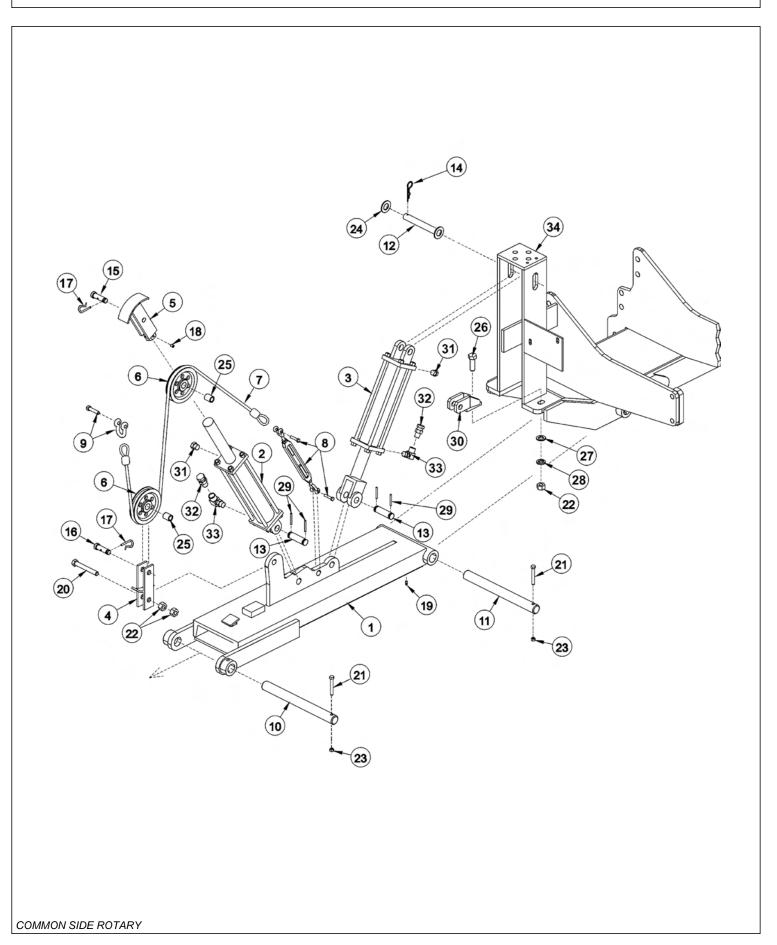


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

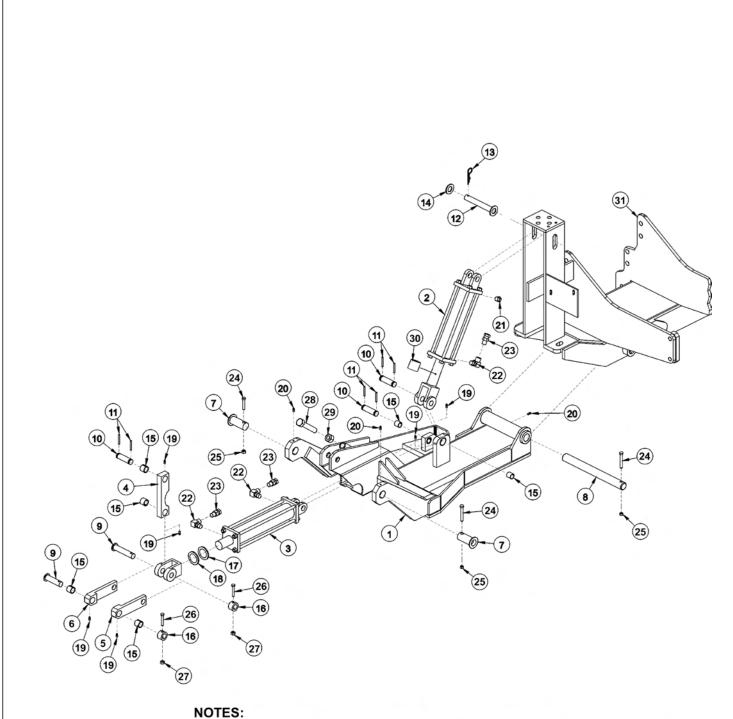
CABLE DRAFT BEAM ASSEMBLY



CABLE DRAFT BEAM ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0105	-	DRAFT BEAM (STD WITH TRAVEL LOCK)
	27241	-	DRAFT BEAM (EXTENDED 6")
2	6T0150	1	CYLINDER 3" X 18"
3	6T0151R	1	HYD. CYLINDER 3" X 10"
4	6T0100	1	LOWER SHEAVE BRACKET
5	6T0101	1	UPPER SHEAVE BRACKET
6	33768	2	SHEAVE
7	6T0110	1	LIFT CABLE (STD 1/2" X 87 1/2")
	6T0110E	-	LIFT CABLE (EXTENDED 6")
8	6T0115	1	TURN BUCKLE
9	6T0112	1	SHACKLE WITH PIN
10	6T2999	1	OUTER DRAFT BEAM PIN 1 1/2" X 14 1/2"
11	6T3001	1	INNER DRAFT BEAM PIN 1 1/2" X 15 3/4"
12	6T3005	1	CYLINDER PIN 1" X 6 5/8"
13	TB1033	2	CLEVIS PIN 1" X 4"
14	6T3004	1	R - CLIP 3/16"
15	6T3010	1	UPPER SHEAVE PIN WITH ZERK 3/4" X 3"
16	6T3009	1	LOWER SHEAVE PIN WITH ZERK 3/4" X 2 1/2"
17	6T3020	2	R - CLIP 5/32"
18	6T2272	1	SET SCREW 3/8" X 1/2"
19	6T3211	1	GREASE ZERK 1/8" STRAIGHT
20	21837	1	CAPSCREW 3/4" X 3 1/4"
21	21688	2	CAPSCREW 7/16" X 3 1/4"
22	21825	2	HEX NUT 3/4"
23	21677	2	NYLOCK NUT 7/16"
24	22023	1	FLAT WASHER 1"
25	6T0104N	2	SHEAVE PIN BUSHING 1" OD X 3/4" ID
26	21833	1	CAPSCREW 3/4" X 2 1/4"
27	22021	1	FLAT WASHER 3/4"
28	21993	1	LOCK WASHER 3/4"
29	06537021	4	ROLL PIN
30	6T0106	1	TRAVEL LOCK BRACKET
31	6T4258	2	BREATHER 1/2"
32	34396	2	RESTRICTOR
33	34244	2	ELBOW FITTING 1/2"
34		-	MAIN FRAME *REFER TO TRACTOR PARTS SECTION

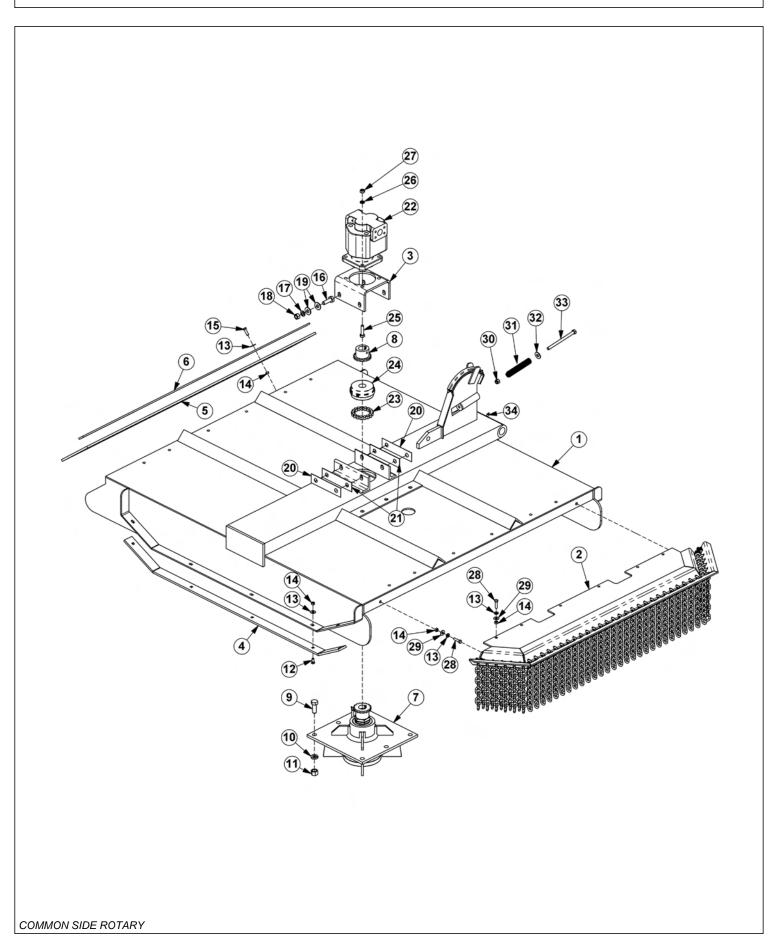
COMBO DRAFT BEAM ASSEMBLY



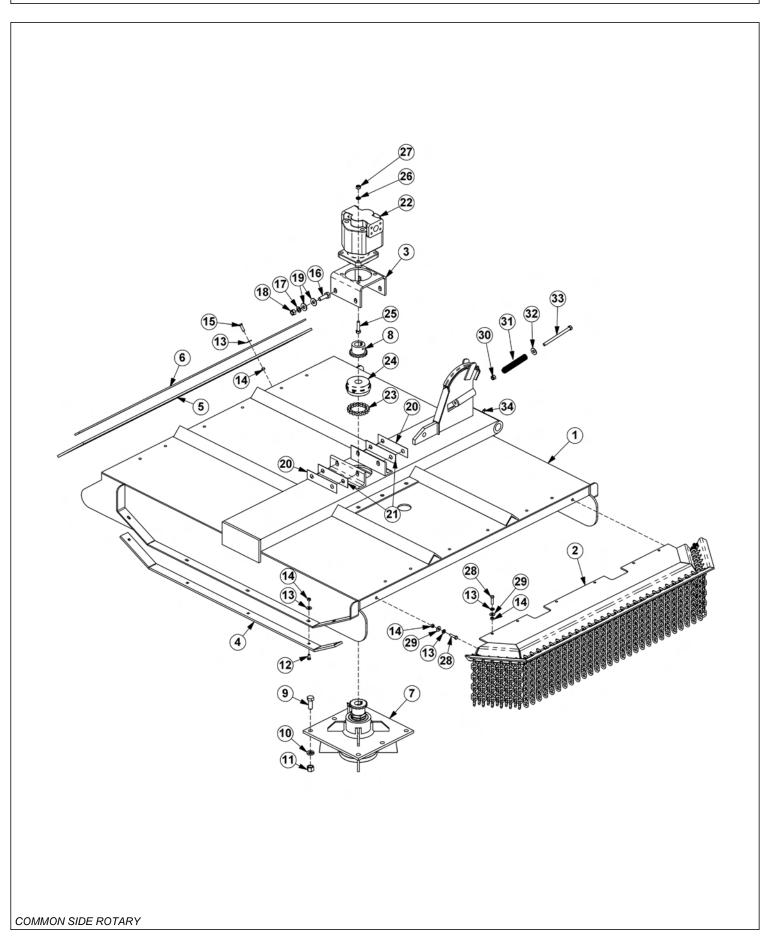
- 1. ITEM 30 IS USED ON THE GLAND END OF ITEM 2 (AS NEEDED)
- 2. ORIENTATION OF ITEMS 4,5 & 6 ARE CRITICAL

COMBO DRAFT BEAM ASSEMBLY

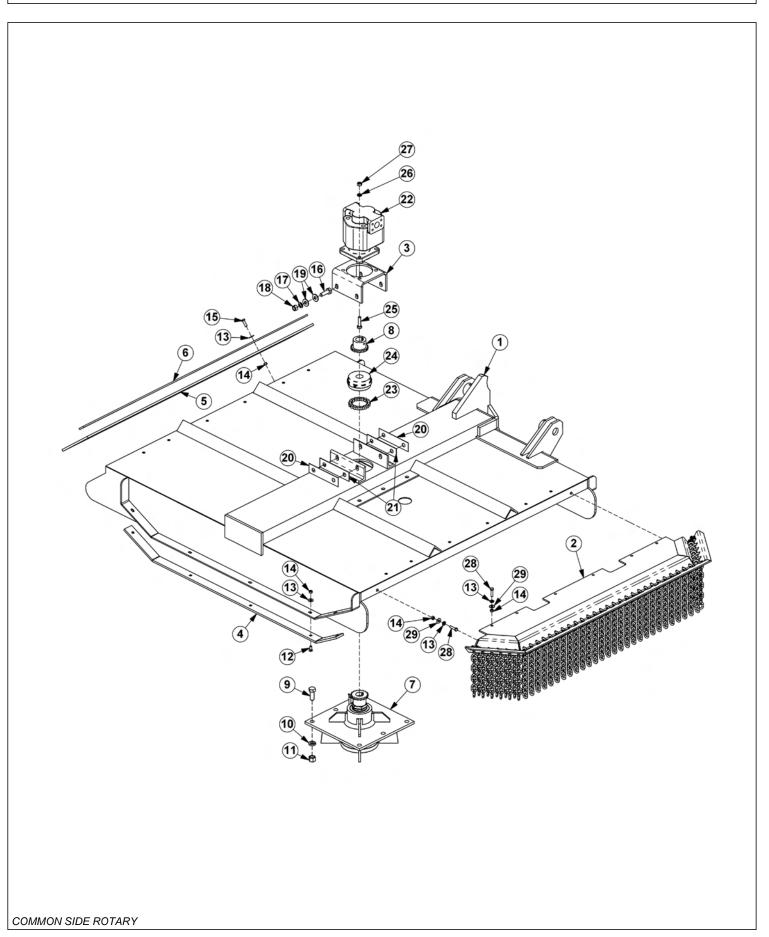
ITEM	PART NO.	QTY.	DESCRIPTION
1	06350001	1	COMBO DRAFT BEAM - STD DTY ROTARY
	31063	-	COMBO DRAFT BEAM - HVY DTY ROTARY
2	6T0151R	1	HYD. CYLINDER 3" X 10"
3	32215	1	HYD. CYLINDER 3" X 12" - STD DTY
	25343	-	HYD. CYLINDER 3" X 12" - HVY DTY
4	TF4500A	1	PIVOT ARM
5	TF4507B	1	RIGHT LINKAGE ARM
6	TF4506B	1	LEFT LINKAGE ARM
7	30126B	2	PIN, HEAD PIVOT - STD DTY
	TF4514A	-	PIN, HEAD PIVOT - HVY DTY
8	6T3001	1	PIN, BEAM PIVOT
9	TF4519	2	PIN, LINKAGE
10	TB1033	3	PIN, CLEVIS
11	06537021	6	ROLLPIN
12	6T3005	1	PIN,1" W/ CAP
13	6T3004	1	R-CLIP HAIRPIN
14	6T2614	1	FLATWASHER 1"
15	TB3010	8	BUSHING 1"
16	22847	2	BOSS, LINKAGE PIN
17	22076	1	SPACER, HYD. CYLINDER 1/4"
18	22077	1	SPACER, HYD. CYLINDER 5/16"
19	6T3207	6	GREASE ZERK 1/4"
20	6T3211	3	GREASE ZERK 1/8"
21	6T4258	1	BREATHER 1/2"
22	34244	3	ELBOW FITTING 1/2"
23	34396	3	SWIVEL RESTRICTOR
24	21688	3	CAPSCREW 7/16" X 3 1/4"
25	21677	3	NYLOCK NUT 7/16"
26	21635	2	CAPSCREW 3/8" X 2 1/4"
27	21625	2	HEX NUT 3/8"
28	21831	1	CAPSCREW 3/4" X 1 3/4"
29	21825	1	HEX NUT 3/4"
30	06700095	1	CYLINDER SPACER W/SET SCREW
31		-	MAIN FRAME *REFER TO TRACTOR MOUNT PAGE



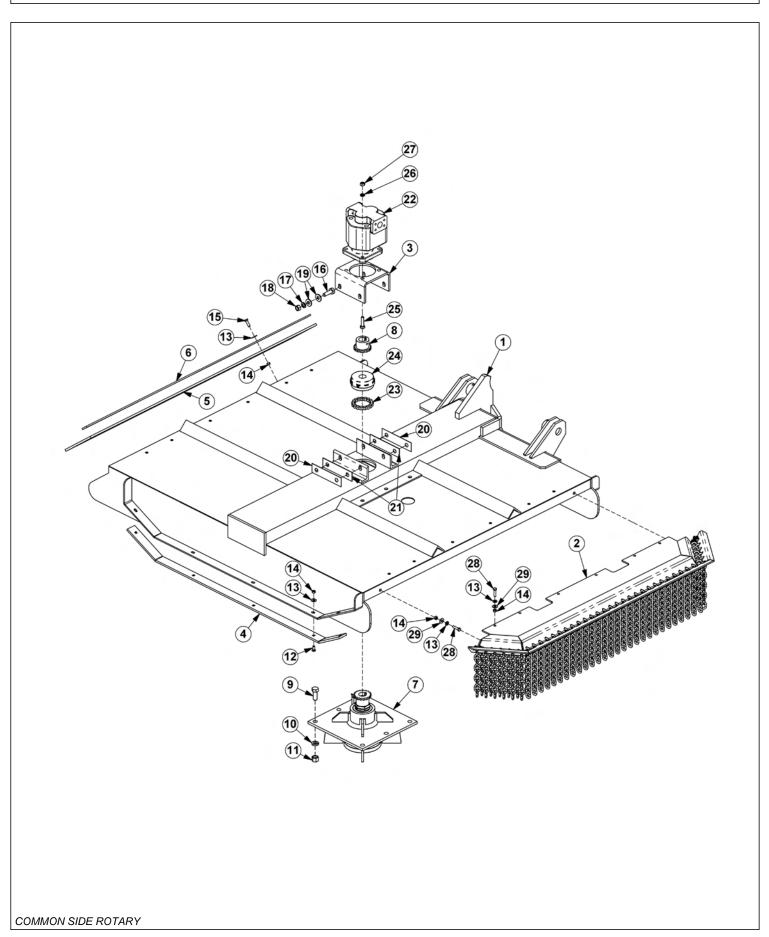
ITEM	PART NO.	QTY.	DESCRIPTION
1	32099	1	RTRY, 60" DECK, CABLE
2	31773	1	GAURD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	6T0820H	2	SKID SHOE, TM60
5	22592	1	FLAP, DEFLECTOR, TM60
6	6T0823	1	BAR, FLAP, TM60
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"
30	21727	1	NYLOCK NUT,1/2",NC
31	27005	1	SPRING,PUSHOFF,SIDE RTRY
32	22018	1	FLATWASHER,1/2",WIDE
33	21745	1	CAPSCREW,1/2" X 7",NC
34	6T3211	1	GREASE ZERK



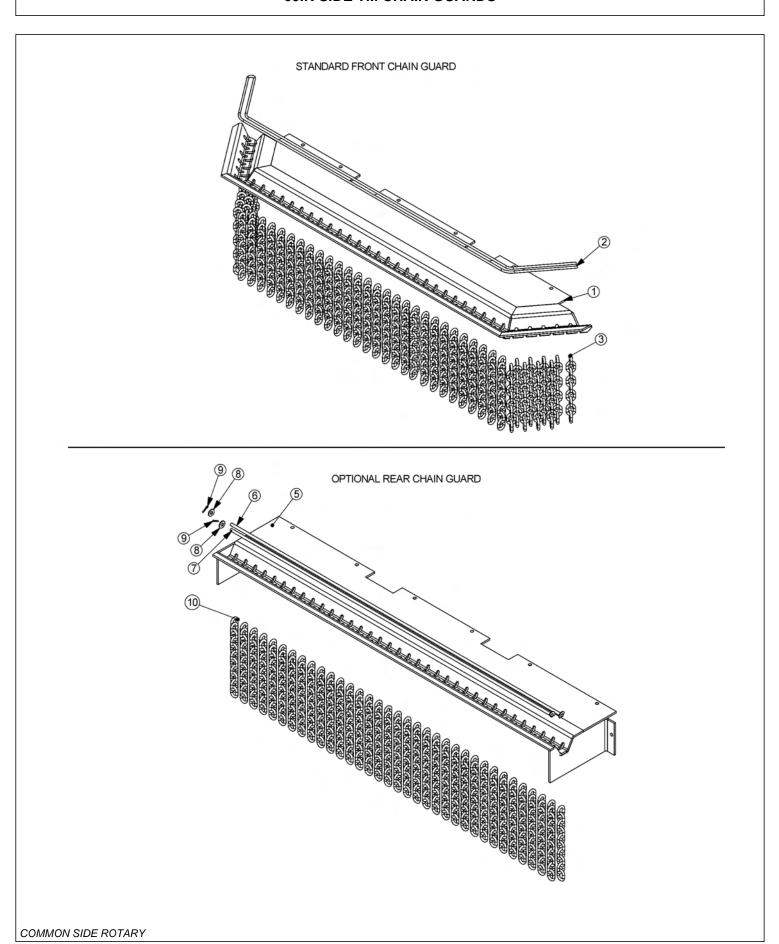
ITEM	PART NO.	QTY.	DESCRIPTION
1	21225B	1	RTRY,72" DECK, CABLE
2	31931	1	GAURD,CHAIN,FRONT,SR72
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	21248	2	SKID SHOE, TM72
5	21295B	1	FLAP, DEFLECTOR, TM72
6	21242A	1	BAR, FLAP, TM72
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504018	1	MOTOR,(M365-2 1/2" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"
30	21727	1	NYLOCK NUT,1/2",NC
31	27005	1	SPRING,PUSHOFF,SIDE RTRY
32	22018	1	FLATWASHER,1/2",WIDE
33	21745	1	CAPSCREW,1/2" X 7",NC
34	6T3211	1	GREASE ZERK



ITEM	PART NO.	QTY.	DESCRIPTION
1	30087D	1	RTRY, 60" DECK, COMBO - STD DUTY
	32617	1	RTRY, 60" DECK, COMBO - HEAVY DUTY
2	31773	1	GUARD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	6T0820H	2	SKID SHOE, TM60
5	22592	1	FLAP, DEFLECTOR, TM60
6	6T0823	1	BAR, FLAP, TM60
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"

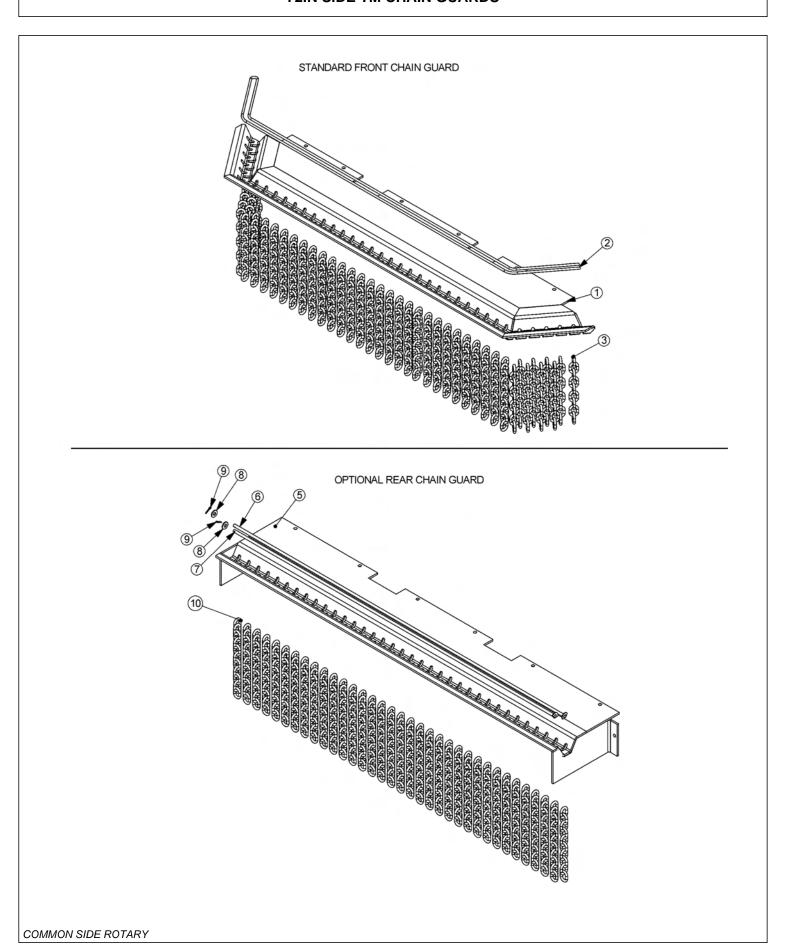


ITEM	PART NO.	QTY.	DESCRIPTION
1	34260	1	RTRY, 72" DECK, COMBO - STD DUTY
	31408A	1	RTRY, 72" DECK, COMBO - HEAVY DUTY
2	31931	1	GUARD,CHAIN,FRONT,SR72
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	21248	2	SKID SHOE, TM72
5	21295B	1	FLAP, DEFLECTOR, TM72
6	21242A	1	BAR, FLAP, TM72
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504018	1	MOTOR,(M365-2 1/2" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"



Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
	31773	-	GUARD,CHAIN,TM60,FRONT,ASSY
1	31762	1	GUARD,CHAIN,TM60,FRONT
2	28407	12	CABLE,5/16",BULK (QTY IN FEET)
3	22993	77	CHAIN,5/16",GR30,9 LINK
4	28408	4	U-BOLT,CABLE,5/16" (NOT SHOWN)
	31774	-	GUARD,CHAIN,TM60,REAR,ASSY
5	31763	1	GUARD,CHAIN,TM60,REAR
6	31879	1	ROD,SHORT,TM60
7	31878	1	ROD,LONG,TM60
8	22016	2	FLATWASHER,3/8",GR8
9	6T3028	2	COTTER PIN,1/8" X 1"
10	22992	69	CHAIN,5/16",GR30,10 LINK

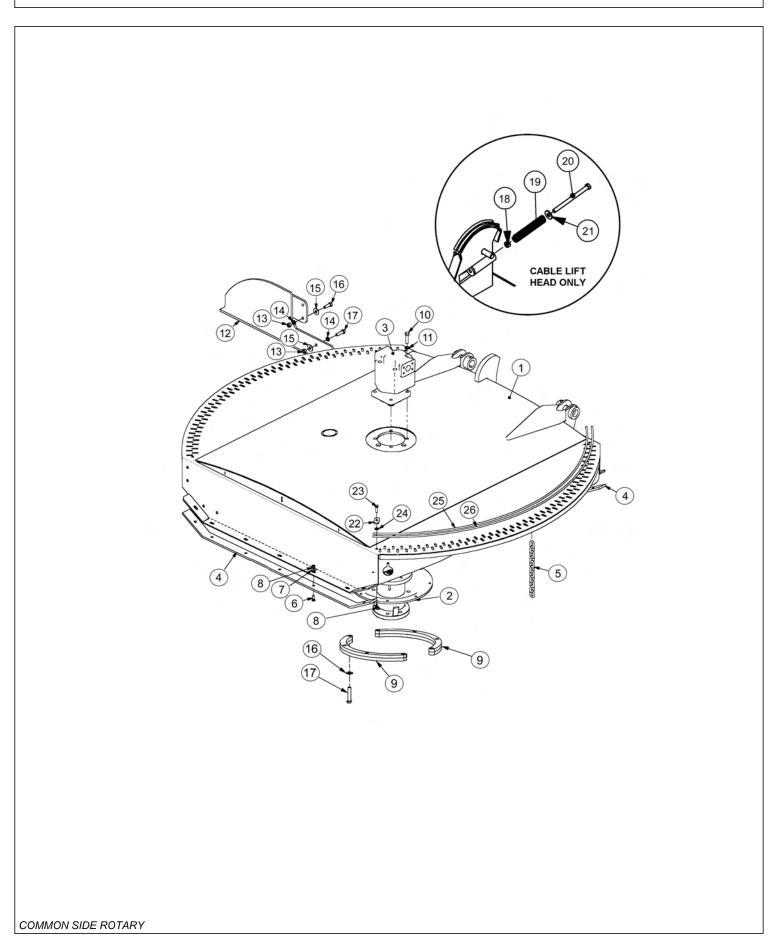


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ITEM	PART NO.	QTY.	DESCRIPTION
	31931	-	GUARD,CHAIN,TM72,FRONT,ASSY
1	31863	1	GUARD,CHAIN,TM72,FRONT
2	28407	14	CABLE,5/16",BULK (QTY IN FEET)
3	22993	91	CHAIN,5/16",GR30,9 LINK
4	28408	4	U-BOLT,CABLE,5/16" (NOT SHOWN)
	31932	-	GUARD,CHAIN,TM60,REAR,ASSY
5	31864	1	GUARD,CHAIN,TM60,REAR
6	31934	1	ROD,LONG,TM72
7	31933	1	ROD,SHORT,TM72
8	22016	2	FLATWASHER,3/8",GR8
9	6T3028	2	COTTER PIN,1/8" X 1"
10	22992	83	CHAIN,5/16",GR30,10 LINK

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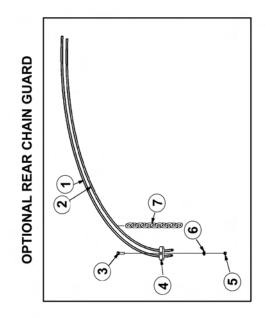
60IN SIDE TSR ROTARY MOWER

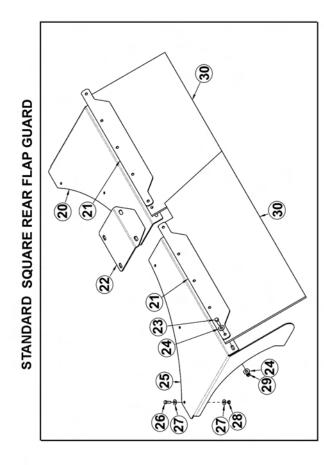


60IN SIDE TSR ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	34975	1	HEAVY DUTY GRASSKAT COMBO
	06320005	1	STD DUTY GRASSKAT COMBO
	06320008	1	HEAVY DUTY GRASSKAT CABLE
2	34980	1	SPINDLE ASSY,TM 60"
3	06504016	1	CURRENT MOTOR,(M365-1 1/4" 14-SPLINE)
4	06410254	2	SKID,OUTBOARD,TM60
5	22992	156	CHAIN,10 LINK
6	6T2270	14	PLOW BOLT,3/8" X 1" NC
7	22016	26	FLATWASHER,3/8"
8	21625	30	HEX NUT,3/8",NC
9	06320011	2	SPACER,TSF,SPINDLE
10	6T1025	4	CAPSCREW, 1/2 X 2,GR 8,NC
11	06533006	4	FLATWASHER,1/2,SAE,GR 8
12	06370029	1	TIRE GUARD, LEFT
13	21725	8	HEX NUT, 1/2",NC
14	21990	8	LOCKWASHER, 1/2"
15	22018	8	FLATWASHER, 1/2", WIDE
16	21731	4	CAPSCREW, 1/2" X 1-1/2" NC
17	21732	4	CAPSCREW, 1/2" X 1-3/4" NC
18	21745	1	NYLOCK NUT, 1/2
19	21727	1	SPRING, PUSHOFF, SIDE RTRY
20	27005	1	CAPSCREW, 1/2 X 7,NC
21	22018	1	FLATWASHER,1/2",WIDE
22	34972	4	PLATE,CAP,CHAIN
23	21631	16	CAPSCREW, 3/8 X 1-1/4,NC
24	21988	16	LOCKWASHER, 3/8"
25	34974	2	ROD,CHAIN,INNER,TM60
26	34973	2	ROD,CHAIN,OUTER,TM60

60IN SIDE TSR REAR GUARDS



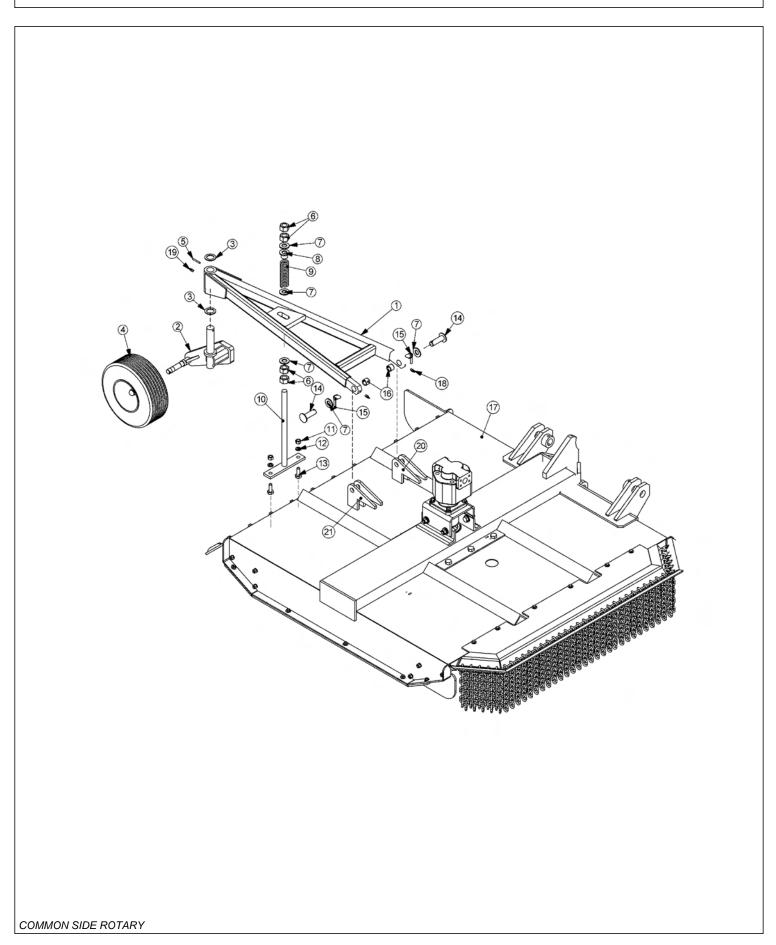


60IN SIDE TSR REAR GUARDS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	34973	2	ROD,CHAIN,OUTER,TM60
2	34974	2	ROD,CHAIN,INNER,TM60
3	21631	16	CAPSCREW, 3/8 X 1-1/4,NC
4	34972	4	PLATE,CAP,CHAIN
5	21625	30	HEX NUT,3/8",NC
6	21988	16	LOCKWASHER, 3/8"
7	22992	156	CHAIN,10 LINK
20	06410947	1	MNT,FLAP,RH,EXT,TSR
21	06401184	2	STRAP,FLAP,EXT,TSR
22	06410948	1	COVER,FLAP,EXT,TSR
23	21632	10	CAPSCREW,3/8" X 1-1/2" NC
24	22016	20	FLATWASHER,3/8",GR8
25	06410946	1	MNT,FLAP,LH,EXT,TSR
26	21580	6	CAPSCREW,5/16 X 1 NC
27	22015	12	FLATWASHER,5/16
28	21577	6	NYLOCK NUT, 5/16,NC
29	21625	10	HEX NUT,3/8",NC
30	06520331	2	FLAP,EXT,TSR

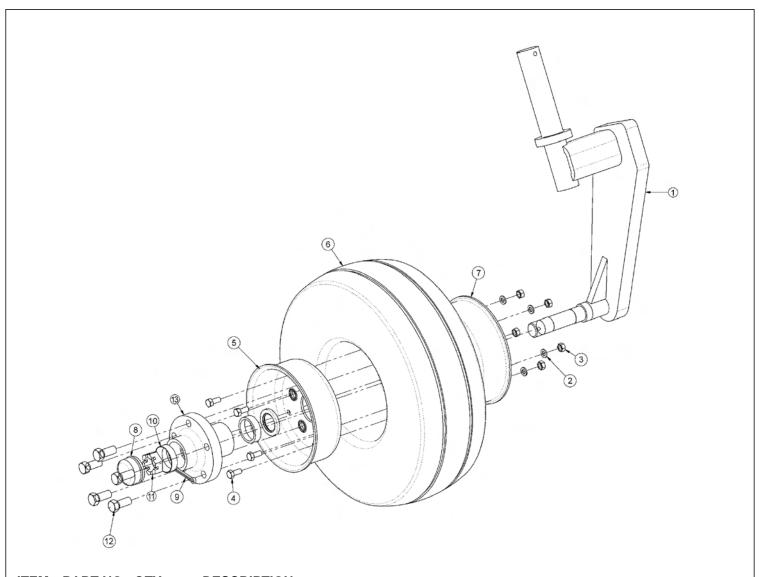
SIDE ROTARY CASTER WHEEL ASSEMBLY



SIDE ROTARY CASTER WHEEL ASSEMBLY

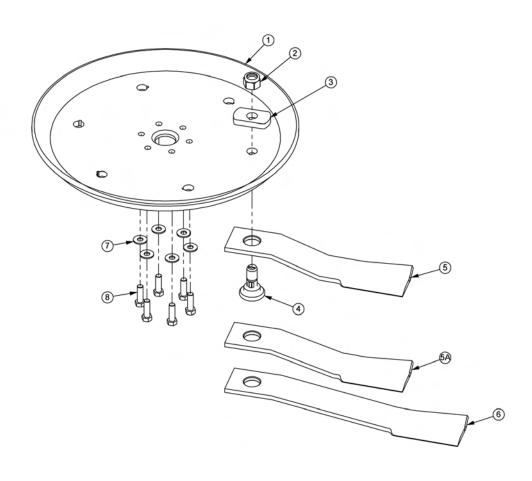
ITEM	PART NO.	QTY.	DESCRIPTION
1	25214C	1	FRAME,CASTER,WHL (TM60)
	28297A	-	FRAME, CASTER WHL (TM72)
2	22057	1	SPINDLE,CASTER AXLE,ASSY
3	6T2617	2	BUSHING,MACH,1-1/2IDX 2-1/4OD
4	28548	1	CASTER WHEEL, SOLID TIRE
	22065	1	HUB,ASSY,CASTER
	22066	1	HUB,CASTER
	22070	1	DUST CAP
	22071	5	HUB STUD
	22073	1	HEX NUT,1",NF (SLOTTED)
	22533	1	COTTER PIN,3/16" X 2"
	6T0830	2	BEARING,CONE,CASTER WHEEL
	6T0838	1	SEAL
	23329	1	WHEEL,CPLT,SOLID TIRE
	21416	1	TIRE,SOLID
	22697	1	RIM,OUTER
	22696	1	RIM,CASTER
5	6T3014	1	ROLL PIN,1/4" X 2"
6	21925	4	HEX NUT,1",NC
7	22023	5	FLATWASHER,1"
8	22753	1	TUBE,PROTECTOR
9	22058	1	SPRING,REAR RTRY
10	22059B	1	ADJ ROD,TRR
11	21775	2	HEX NUT,5/8"
12	21992	2	LOCKWASHER,5/8"
13	21782	2	CAPSCREW,5/8" X 1-3/4",NC
14	22060	2	CASTER FRAME PIN
15	TF1143	2	PIN,LYNCH,7/16" X 2"
16	TB3010	2	BUSHING,1"
17		1	RTRY,CPLT,TM
18	6T3207	2	GREASE ZERK,1/4" X STR
19	6T3211	1	GREASE ZERK,1/8" X STR
20	21441	2	CASTER FRAME ANCHOR (TM60)
	42527	2	CASTER FRAME ANCHOR (TM72)
21	21442	2	CASTER FRAME ANCHOR (TM60)
	42527	2	CASTER FRAME ANCHOR (TM72)

CASTER WHEEL ASSEMBLY



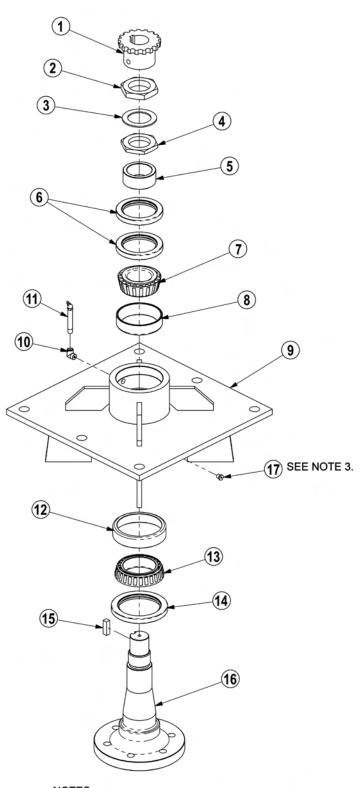
ITEM	PART NO.	QTY.	DESCRIPTION
1	22057	1	SPINDLE,CASTER AXLE,ASSY
2	21987	5	LOCKWASHER,5/16"
3	21575	5	HEX NUT,5/16"
4	28548	5	CAPSCREW,5/16" X 3/4",NC
5	22697	1	RIM,OUTER,CASTER ASSY
6	21416	1	TIRE,SOLID
7	22696	1	RIM,CASTER WHEEL
8	22070	1	DUST CAP
9	22533	1	COTTER PIN,3/16" X 2"
10	6T0836	2	CUP,CASTER WHEEL
11	22073	1	HEX NUT,1",NF (SLOTTED JAM NUT)
12	22071	5	HUB STUD
13	22066	1	HUB,CASTER WHEEL

ROTARY DISK AND KNIVES



ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK NUT,1-1/8"
3	34878	2	SPACER
4	34497	2	KNIFE MOUNTING BOLT
5	34685	2	KNIFE,60" HIGH SUCTION - STANDARD
5A	34684	2	KNIFE,60" - OPTIONAL
6	34682	2	KNIFE 72" (MOUNT ON 72" MOWER ONLY)
7	25270	6	FLATWASHER,5/8",USS,GR8
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF
	6T1825	-	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
	27167	-	BOLT KIT (INCLUDE ITEMS 7 & 8)
	06700002	-	KIT,60/72,DISK,KNF MTG (INCLUDE ITEM 1, 3,7 & 8)

TM MOWER SPINDLE ASSEMBLY



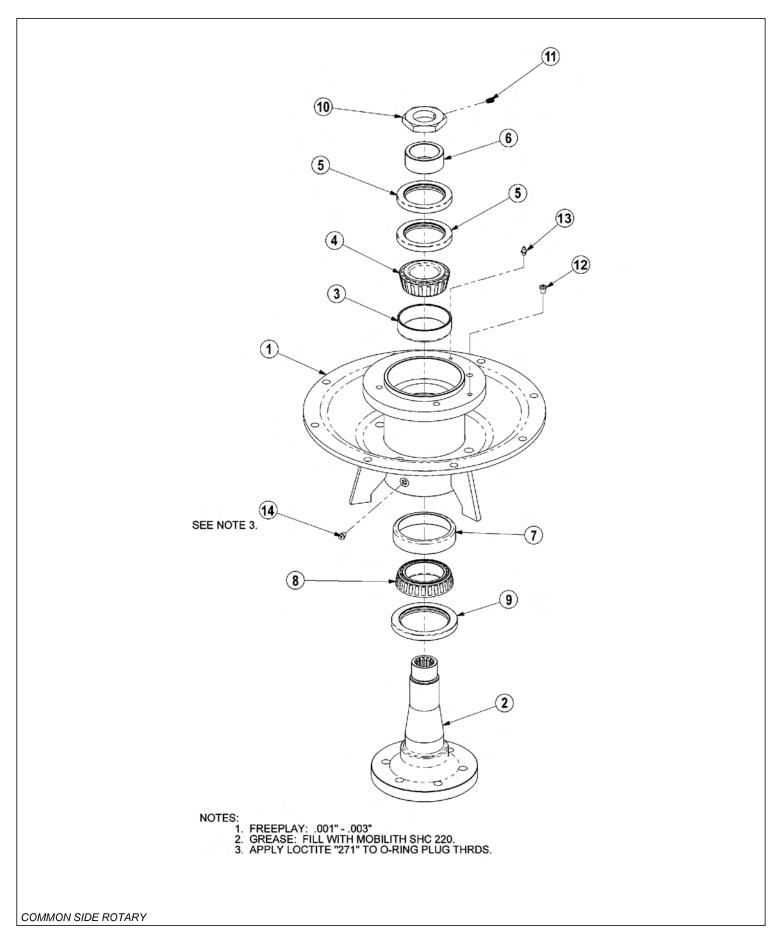
NOTES:

- 1. FREEPLAY: .001" .003" 2. GREASE: FILL WITH MOBILITH SHC 220. 3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

TM MOWER SPINDLE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
9	6T1010H	1	SPINDLE HOUSING
10	30570	1	FITTING STREET ELBOW
11	33990	1	GREASE ZERK
12	6T1013H	1	BEARING CUP
13	6T1012H	1	BEARING CONE
14	6T1011H	1	LOWER SEAL
15	6T1019	1	SPINDLE KEY
16	PT1018H-5	1	SPINDLE
17	06503064	1	O-RING PLUG, 1/8"
	31771 -		SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15)

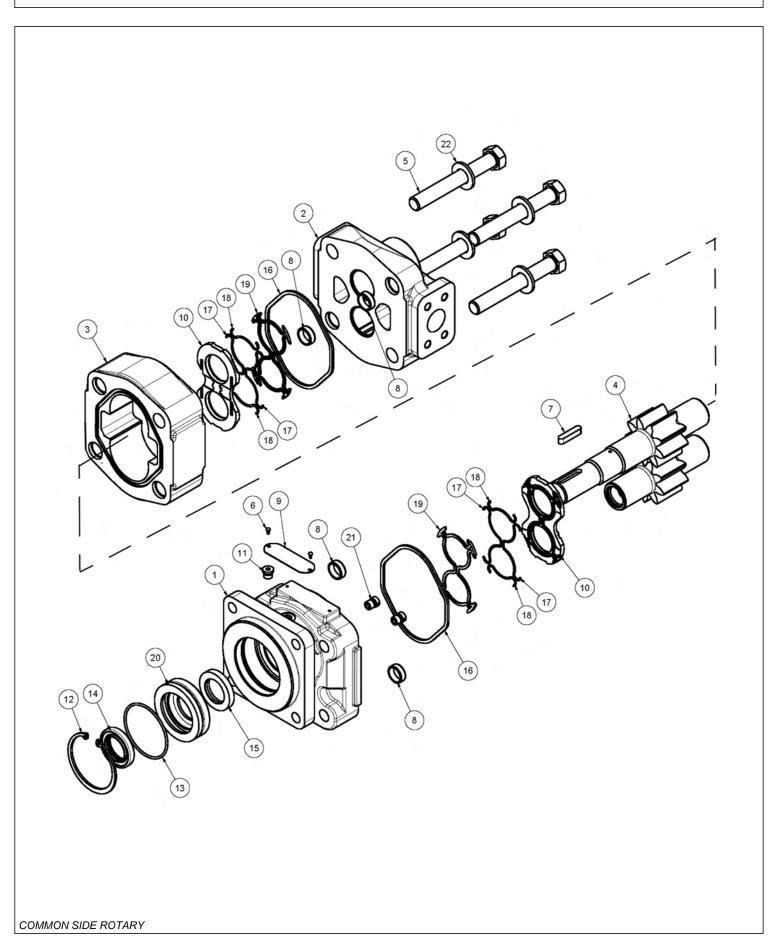
TSR MOWER SPINDLE ASSEMBLY



TSR MOWER SPINDLE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	34980	-	SPINDLE ASSEMBLY COMPLETE
1	34978	1	SPINDLE MOUNT
2	34979	1	SPINDLE,TM60
3	6T1013	1	BEARING CUP
4	6T1012	1	BEARING CONE
5	6T1011	1	UPPER SEAL - SET OF 2
6	6T1014	1	BEARING ADJUSTMENT SLEEVE
7	6T1013H	1	BEARING,CUP,HD
8	6T1012H	1	BEARING CONE,HD
9	6T1011H	1	SEAL,LOWER,HD
10	34985	1	NUT W/SETSCREW
11	6T2275	1	SETSCREW,5/16" X 1/2",NC
12	34988	1	RELIEF,1PSI,1/8" NPT
13	6T3207	1	ZERK,1/4" X STR
14	06503064	1	O-RING PLUG, 1/8"

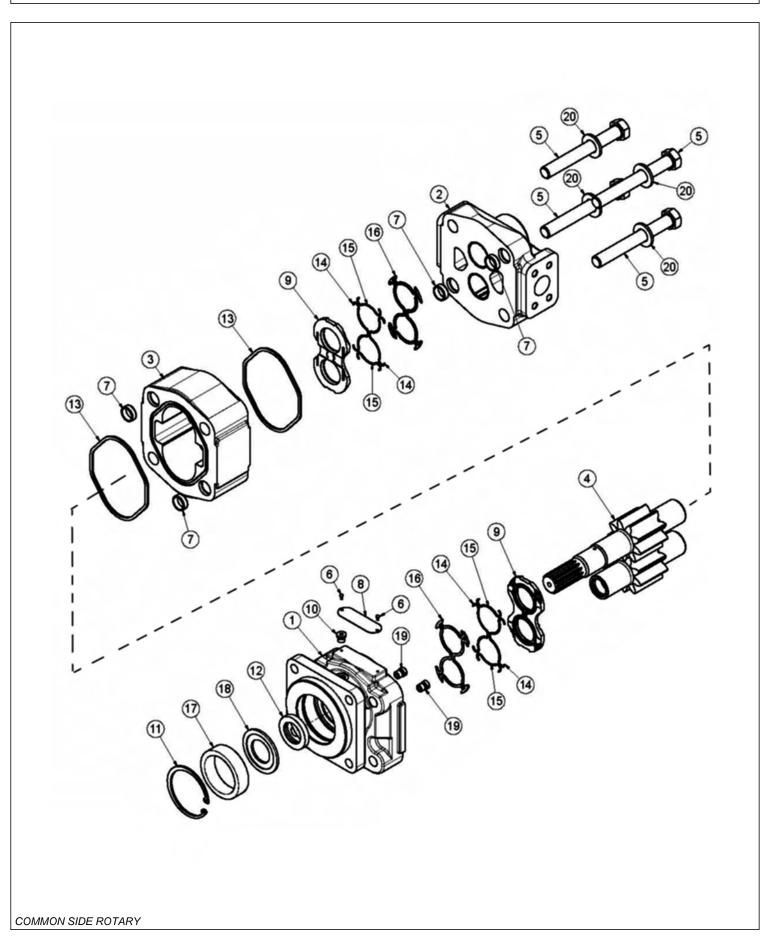
60IN AND 72IN ROTARY MOTOR BREAKDOWN



60IN AND 72IN ROTARY MOTOR BREAKDOWN

ITEM	PART NO.	QTY.	DESCRIPTION
	06504011	-	MOTOR ASSEMBLY,TM60
	06504018	-	MOTOR ASSEMBLY,TM72
1	22790	1	END,COVER
2	06504088	1	HOUSING, PEC
3	06504062	1	HOUSING, GEAR
4	06504090	1	SET, GEAR SHAFT,TM60
	06504105	-	SET, GEAR SHAFT,TM72
5	06504104	4	CAP SCREW,TM60
	06504106	-	CAP SCREW,TM72
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	2961940	1	PLUG, ODT
12	2962200	1	RING, SNAP
13	06504096	1	O RING
14	6T5101	1	SEAL, LIP
15	06504097	1	SEAL, LIP
16	22797	2	SEAL, SQ-R
17	06504098	4	SEAL, SIDE CHAN
18	06504099	4	SEAL, END CHAN
19	06504100	2	SEAL, BK-UP
20	06504101	1	RTNR, SEAL
21	6T5809	2	CHECK ASS'Y
22	06504102	4	WASHER
	06504103	-	SEAL KIT

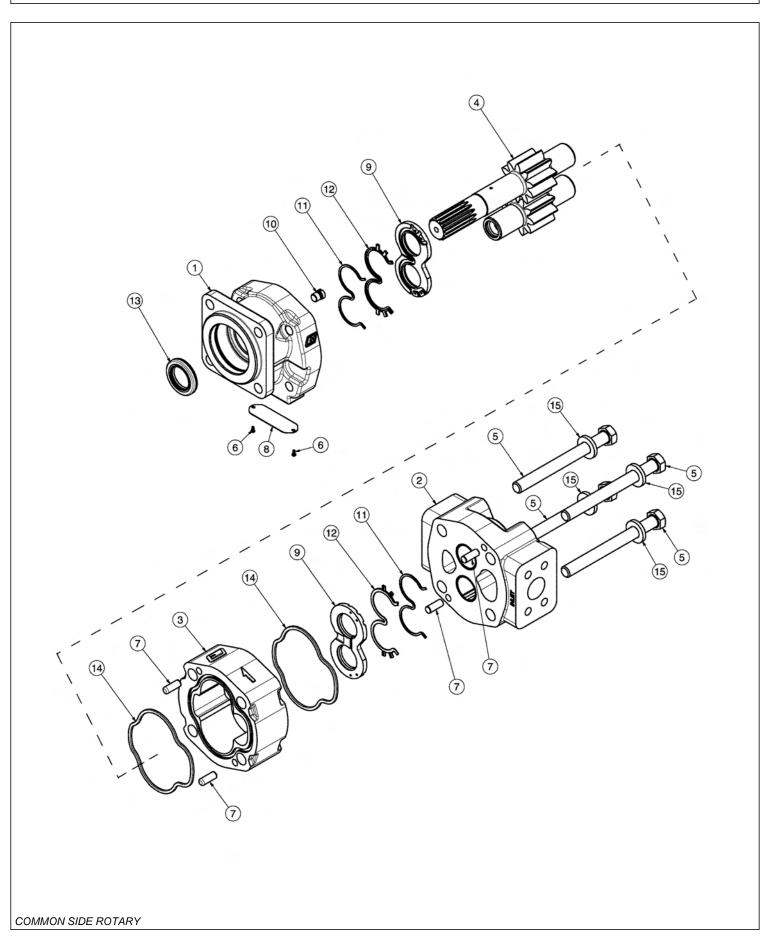
60IN TSR ROTARY MOTOR BREAKDOWN



60IN TSR ROTARY MOTOR BREAKDOWN

ITEM	PART NO.	QTY.	DESCRIPTION
	06504016	-	MOTOR(M365-1 1/4SPLINE),SEALED
1	22790	1	COVER,END
2	06504088	1	HOUSING,PEC
3	06504111	1	HOUSING,GEAR
4	06504110	1	SET,GEAR SHAFT
5	06504104	4	CAP SCREW
6	06504078	2	SCREW,DRIVE
7	06504093	4	PIN,DOWEL
8	06504094	1	NAME PLATE
9	06504095	2	THRPL
10	02961940	1	PLUG,ODT (0.25)
11	6T5200	1	RING,SNAP
12	06504097	1	SEAL,LIP
13	22797	2	SEAL,SQ-R
14	06504098	4	SEAL,SIDE CHAN
15	06504099	4	SEAL,END CHAN
16	06504100	2	SEAL,BK-UP
17	06504112	1	SPACER
18	06504113	1	RTNR,SEAL
19	6T5809	2	CHECK ASS'Y
20	06504102	4	WASHER
	06504022	1	SEAL KIT

FRONT HYDRAULIC PUMP BREAKDOWN

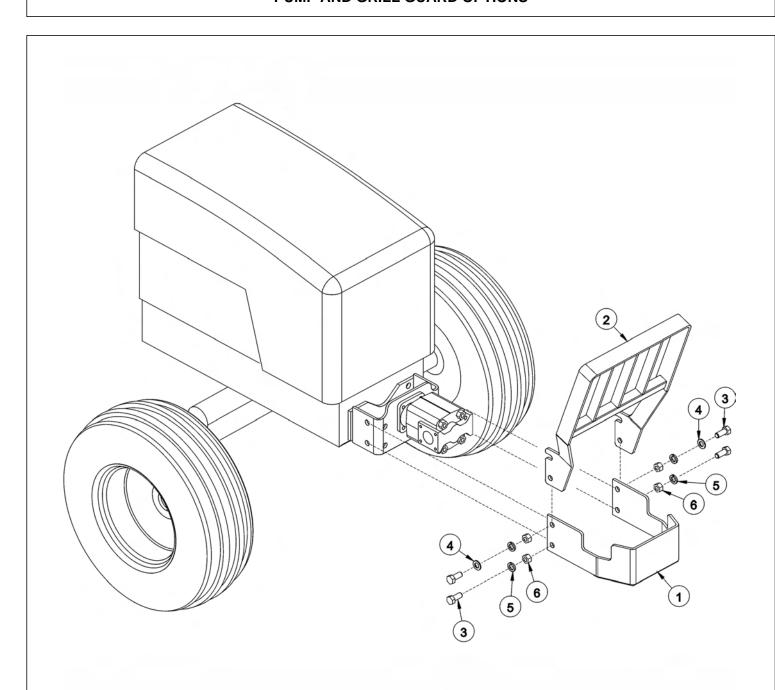


FRONT HYDRAULIC PUMP BREAKDOWN

Continued...

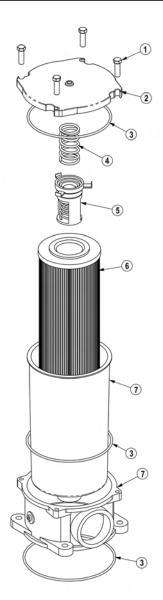
ITEM	PART NO.	QTY.	DESCRIPTION
	23152	1	PUMP ASSEMBLY,1-3/4",COMPLETE
1	22766	1	SHAFT END COVER
2	22779	1	PORT END COVER
3	22774	1	GEAR HOUSING,1-3/4"
4	22771	1	GEAR SET
5	23824	4	CAPSCREW
6	06504078	2	SCREW,DRIVE
7	22773	4	DOWEL PINS
8	06504077	1	NAMEPLATE
9	22770	2	THRUST PLATE
10	22767	1	PLUG
11	06504075	2	SEAL,BK-UP
12	06504074	2	SEAL,CHAN
13	22765	1	SEAL,LIP
14	06504076	2	SEAL,SQ-R
15	02961917	4	WASHER
	24150	1	SEAL KIT (INCLUDES 11, 12, 13 AND 14)

PUMP AND GRILL GUARD OPTIONS



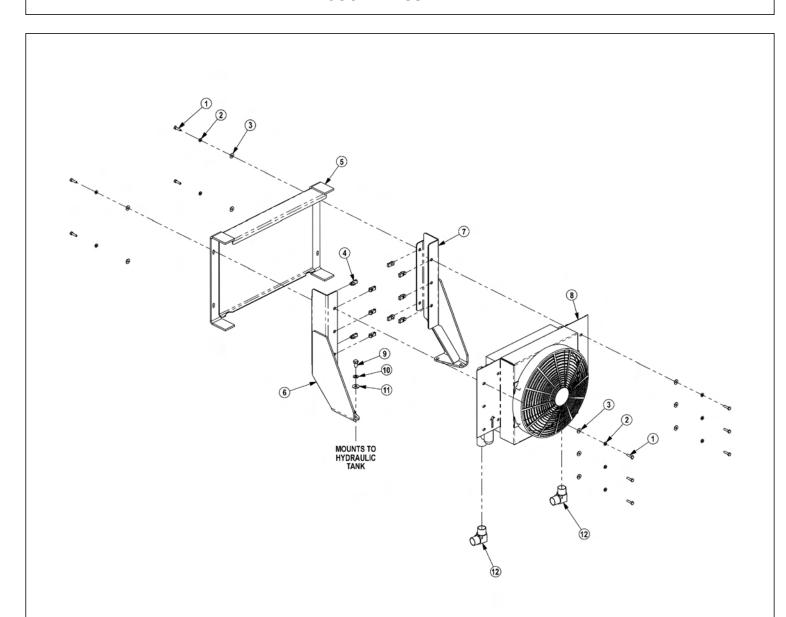
ITEM	PART NO.	QTY.	DESCRIPTION
1	32430	1	UNIVERSAL PUMP GUARD
2	32737	1	UNIVERSAL GRILL GUARD
3	21833	4	CAPSCREW,3/4" X 2-1/4",NC
4	22021	2	FLATWASHER,3/4"
5	21993	4	LOCKWASHER,3/4"
6	21825	4	HEX NUT,3/4",NC

RESERVOIR TANK FILTER ASSEMBLY



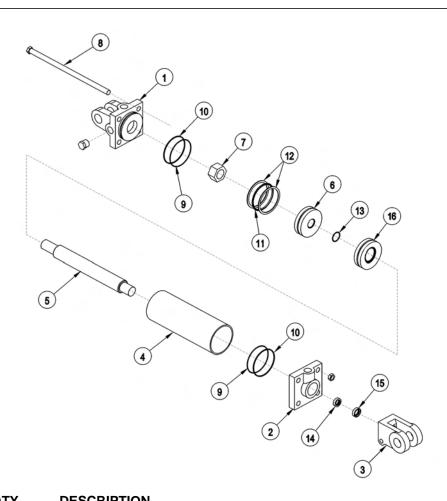
ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	-	FILTER ASSY SAE 10 MICRON
1	28583	4	CAPSCREW,8MM X 25MM(1.25 PITCH)
2	06505045	1	COVER
3	06505046	1	SEAL KIT
4	06505047	1	SPRING
5	06505048	1	BYPASS
6	35259	1	FILTER,10 MIC,RETURN LINE
7	06505049	1	CAN/BODY

COOLER ASSEMBLY



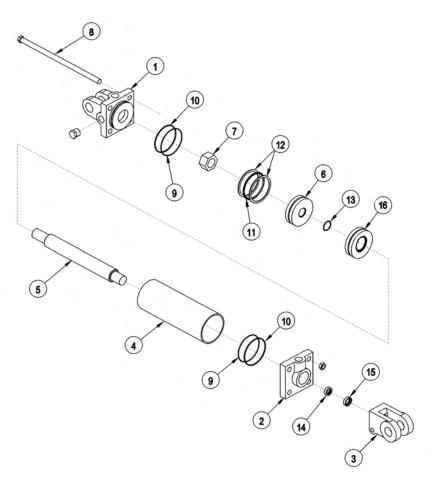
ITEM	PART NO.	QTY.	DESCRIPTION
1	21530	10	CAPSCREW,1/4 X1 NC
2	21986	10	LOCKWASHER,1/4
3	22014	10	FLATWASHER,1/4
4	35176	10	1/4 U-NUT
5	06370015	1	SCREEN,COOLER,FRNT
6	06380006	1	MNT,COOLER,BUMPER TANK,RH
7	06380007	1	MNT,COOLER,BUMPER TANK,LH
8	06510026	1	COOLER,FRONT MNT
9	21629	4	CAPSCREW,3/8 X 3/4 NC
10	21988	4	LOCKWASHER,3/8
11	22016	4	FLATWASHER,3/8
12	34117	2	ELBOW,1MOR X 1MJ90,FORGED

3IN X 10IN HYDRAULIC CYLINDER BREAKDOWN



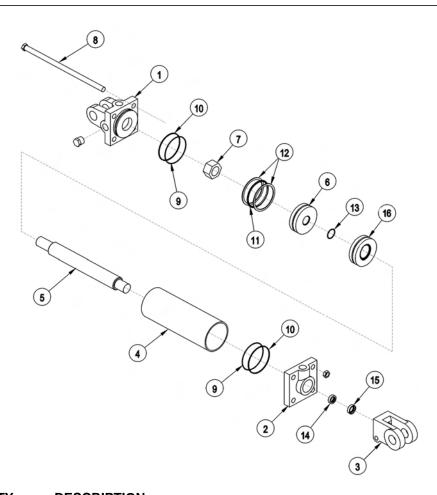
IIEM	PART NO.	QTY.	DESCRIPTION
	6T0151R	-	HYD. CYLINDER 3" X 10"
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0164	1	CYLINDER TUBE
5	6T0161	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0176	4	TIE ROD ASY
	6T0187	-	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

3IN X 12IN HYDRAULIC CYLINDER BREAKDOWN

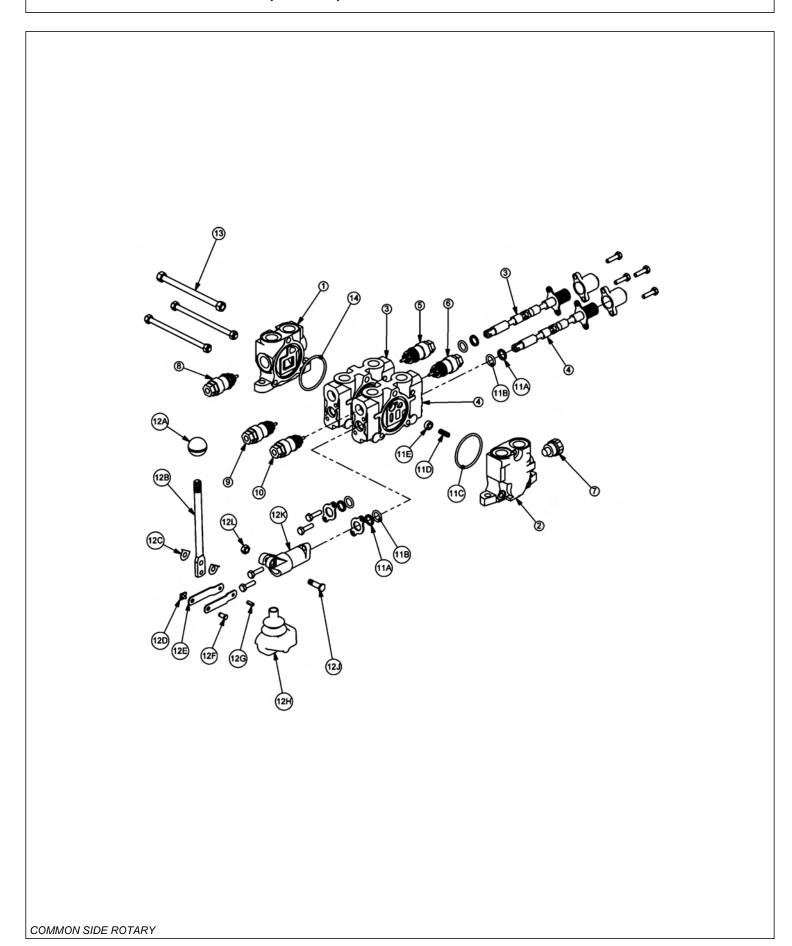


ITEM	PART NO.	QTY.	DESCRIPTION
	32215	-	HYD. CYLINDER 3" X 12" (STD DUTY)
	25343	-	HYD. CYLINDER 3" X 12" (HVY DUTY)
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0204	1	CYLINDER TUBE
5	6T0203	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0205	4	TIE ROD ASY
	6T0187	-	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

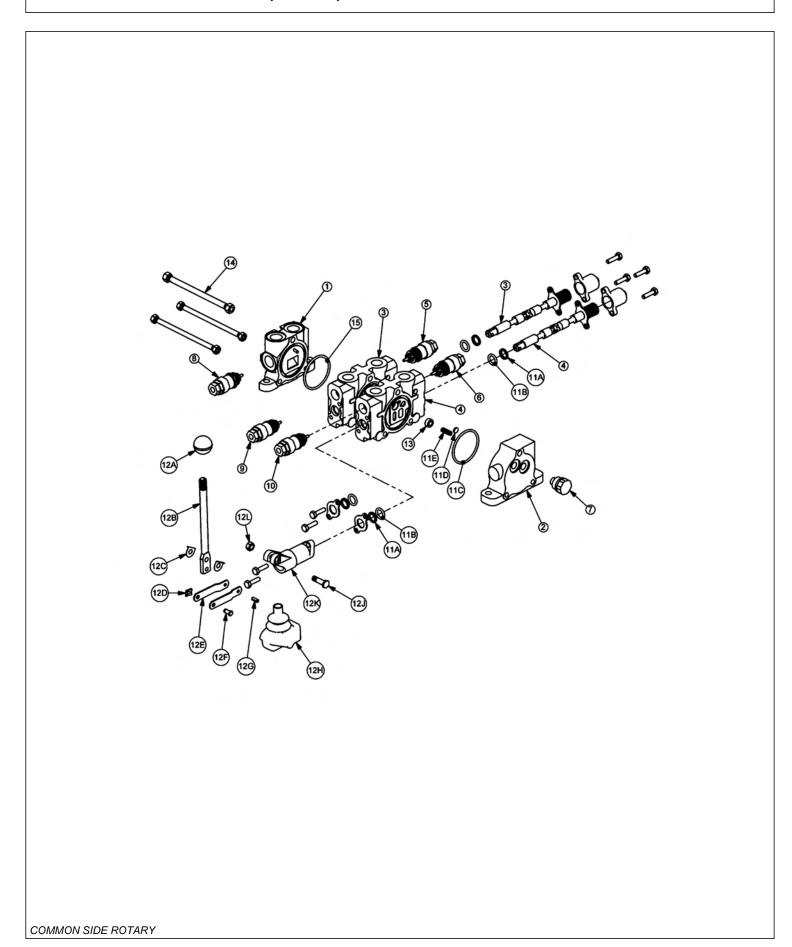
3IN X 18IN HYDRAULIC CYLINDER BREAKDOWN



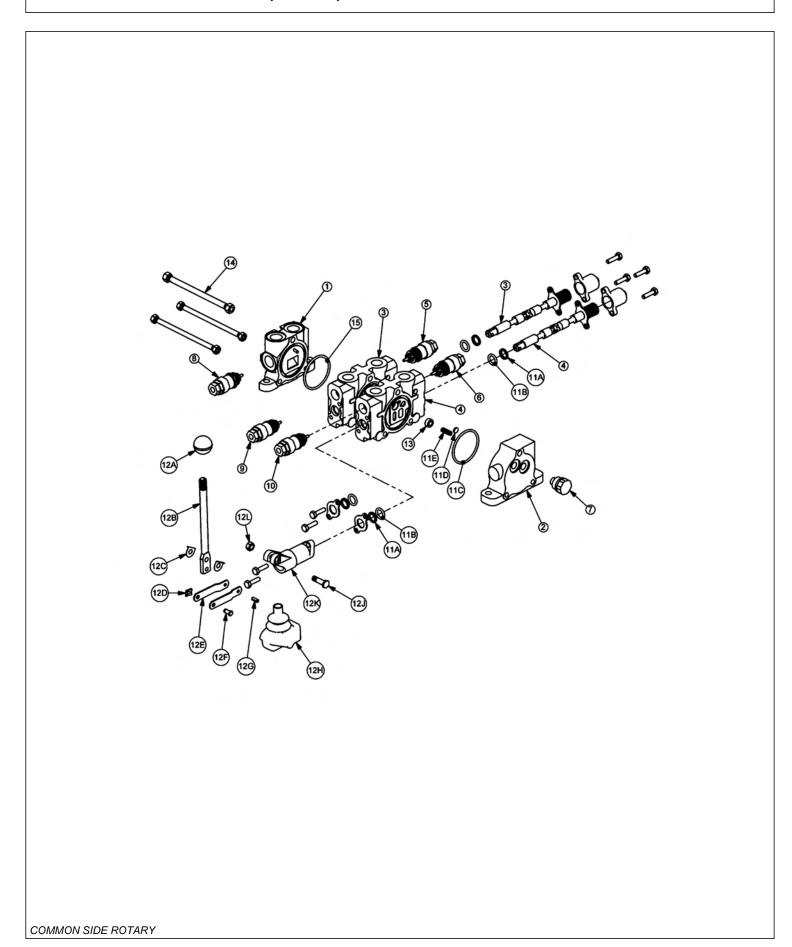
ITEM	PART NO.	QTY.	DESCRIPTION
	6T0150	-	CYLINDER 3" X 18"
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0165	1	CYLINDER TUBE
5	6T0162	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0177	4	TIE ROD ASY
	6T0187	-	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER
16	6T0206	1	SPACER



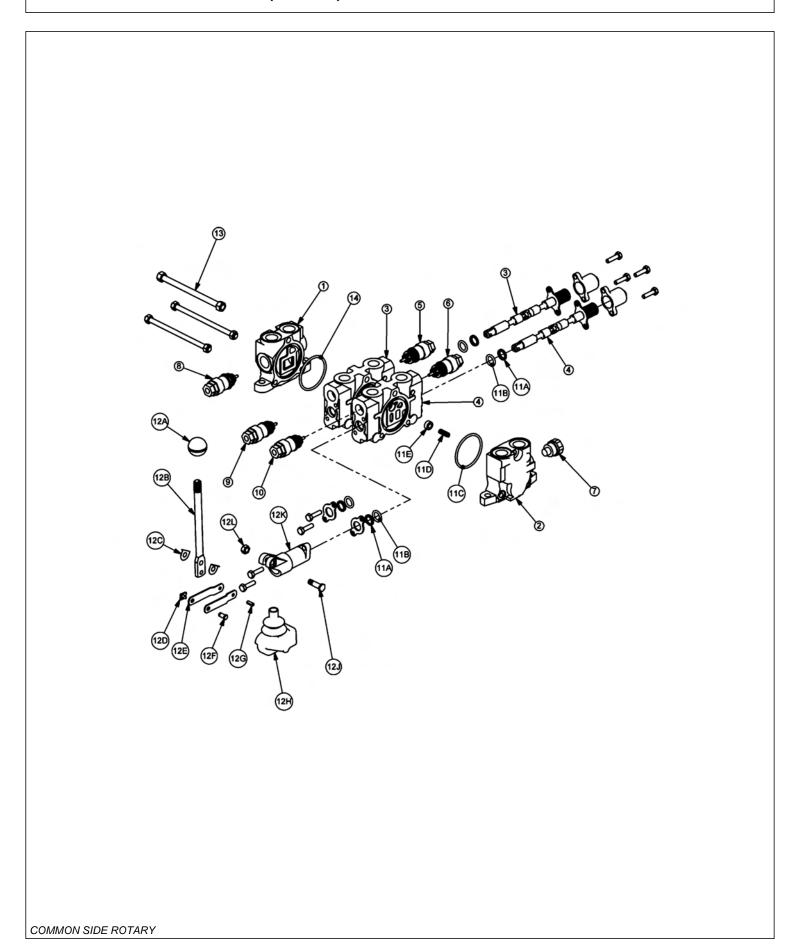
ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	06502091	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (NO AUX VALVE PORTS)
5	N/A	-	N/A
6	N/A	-	N/A
7	TB1017M	1	SHUT-OFF PLUG
8	TB1017E	1	RELIEF VALVE, 2250 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	N/A	-	N/A
11	TB1017A	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SPRING
11E		1	PUCKET
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	TB1017X	1	TIE ROD KIT
14	24214	1	O-RING, LARGE



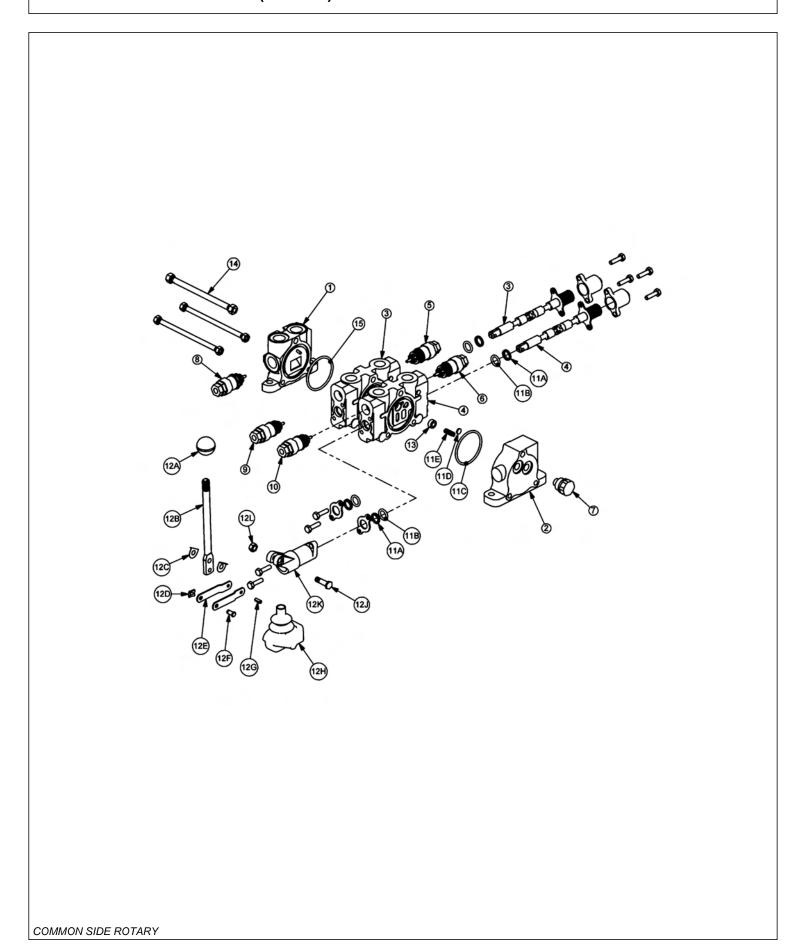
ITEM	PART NO.	QTY.	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6	06503067	1	RELIEF PLUG
7	N/A	-	N/A
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE



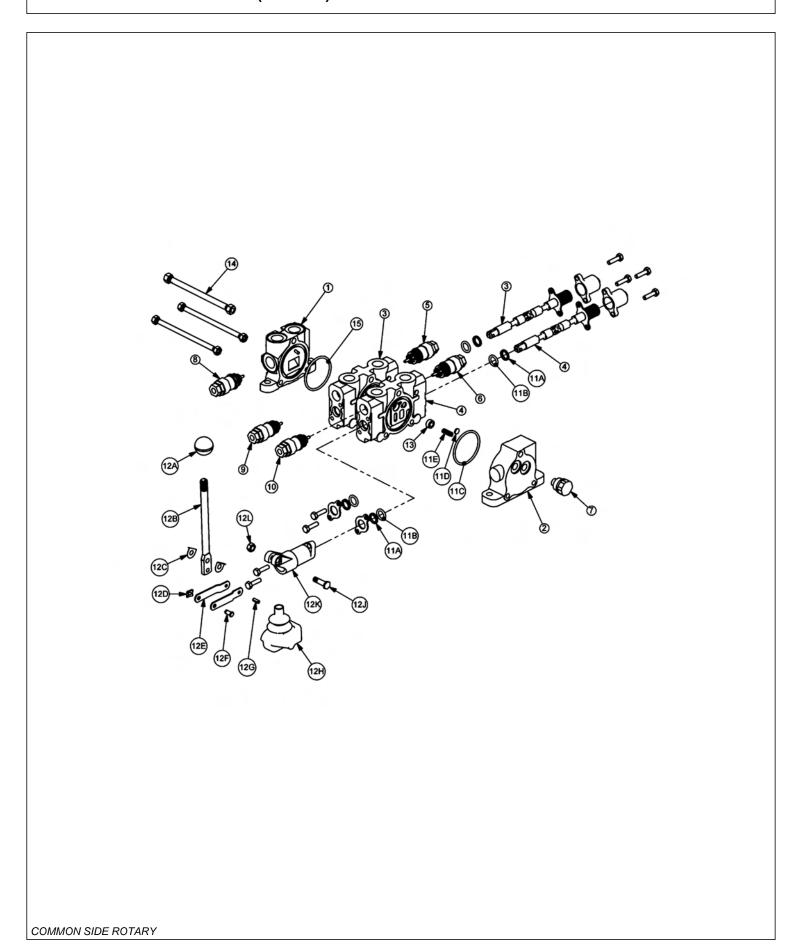
ITEM	PART NO.	QTY.	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6	31861	1	RELIEF VALVE, 360 PSI
7	N/A	-	N/A
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE



ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
5	N/A	-	N/A
6	N/A	-	N/A
7	TB1017M	1	SHUT-OFF PLUG
8	TB1017E	1	RELIEF VALVE, 2250 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	TB1017M	1	SHUT-OFF PLUG
11	TB1017A	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SPRING
11E		1	PUCKET
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	TB1017X	1	TIE ROD KIT
14	24214	1	O-RING, LARGE

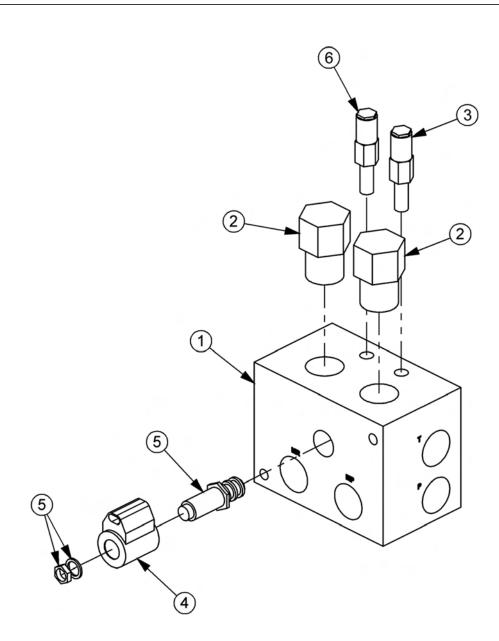


	ITEM	PART NO.	QTY.	DESCRIPTION
	1	31595	1	INLET END COVER
	2	31594	1	END COVER, LOAD SENSE
	3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
	4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)
	5	06503067	1	RELIEF PLUG
	6	06503067	1	RELIEF PLUG
	7	06503068	1	RELIEF PLUG
	8	N/A	-	N/A
	9	31862	1	RELIEF VALVE, 2175 PSI
	10	31862	1	RELIEF VALVE, 2175 PSI
	11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
	11A		2	WIPER
	11B		2	O-RING SMALL
	11C		1	O-RING LARGE
	11D		1	SHUTTLE DISC
	11E		1	SPRING
	12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
	12A		1	LEVER KNOB
	12B		1	LEVER
	12C		2	LEVER WASHER
	12D		1	LEVER CLIP
	12E		2	LINKAGE
	12F		1	LEVER PIN
	12G		1	ROLL PIN
	12H		1	LEVER BOOT
	12J		1	LEVER BOLT
	12K		1	LEVER DUST COVER
	12L		1	LEVER NUT
	13	31603	2	COMPENSATOR
	14	TB1017X	1	TIE ROD KIT
	15	24214	1	O-RING, LARGE
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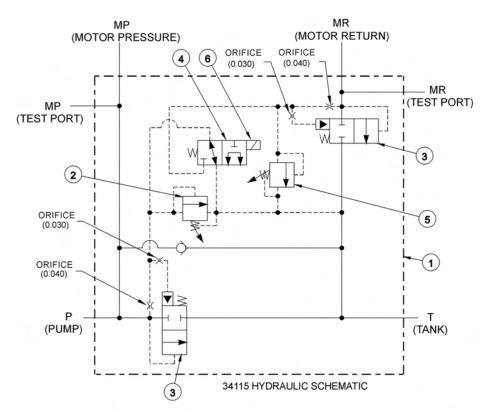
ITEM	PART NO.	QTY.	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6	31861	1	RELIEF VALVE, 360 PSI
7	06503068	1	RELIEF PLUG
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

BRAKE VALVE ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
	06510083	1	BRAKE VALVE, ASSY
1	34092	1	BRAKE VALVE, BLANK
2	34094	2	LOGIC ELEMENT
3	34095	1	RELIEF VALVE, 3000 PSI
4	06510095	1	METRI PAK COIL
5	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
6	34091	1	RELIEF VALVE, 2600 PSI
	34096	2	RELIEF SEAL KIT
	34097	1	SOLENOID SEAL KIT
	34098	2	ELEMENT SEAL KIT

BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

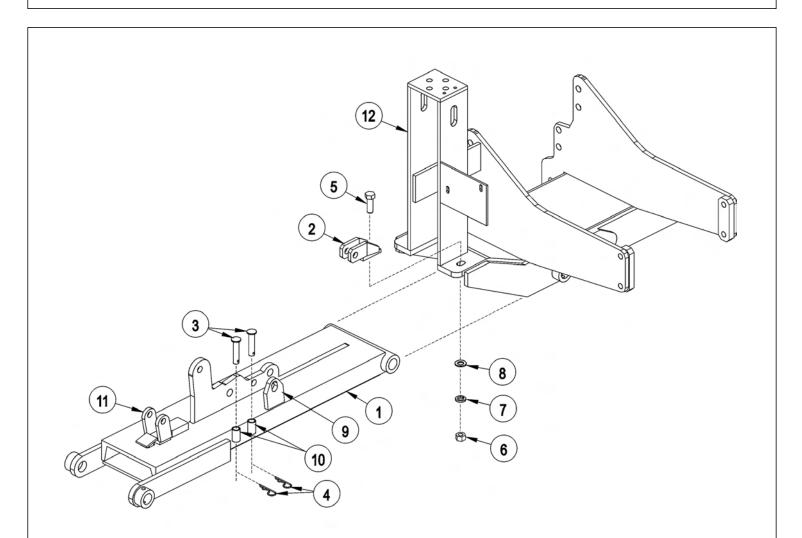
FAILURE MODE:	CHECK STEPS
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- MOWER WILL NOT START system pressure is low (engine not lugging).
 1 thru 6
- MOWER WILL NOT START system pressure is high
 (engine lugging). "MR" port will be high pressure.
- MOWER WILL NOT ROTATE AT FULL SPEED limited power. 3 thru 5
- MOWER BLADE WILL NOT STOP blade will not stop in proper time. 7 thru 9

CORRECTIVE STEPS:

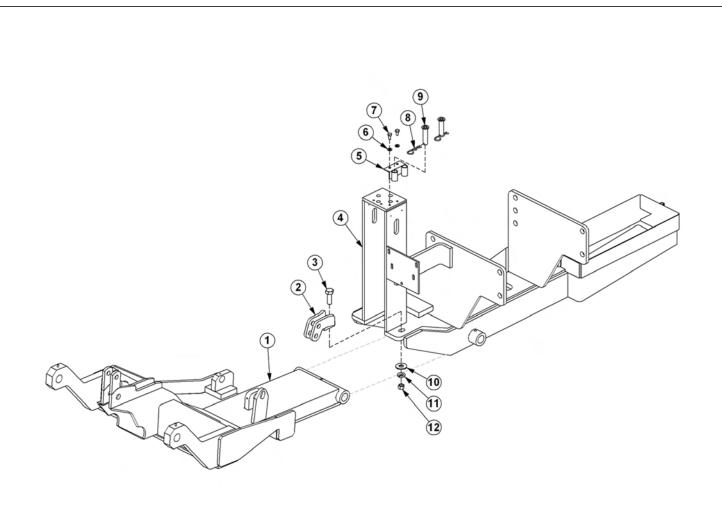
- 1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
- 2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
- 3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
- 4. Remove, inspect 3000 psi relief valve (item 2) for wear or contamination.
- 5. Remove and inspect orifices near "P" port for contamination.
- 6. Remove "P" port hose and fitting, visually inspect for contamination, check ball for movement.
- 7. Remove and inspect orifices near "MR" port for contamination.
- 8. Remove, inspect 2600 psi relief valve (item 5) for wear of contamination.
- 9. Remove, inspect logic element near "MR" port (item 3) for wear or contamination.

CABLE DRAFT BEAM TRAVEL LOCK



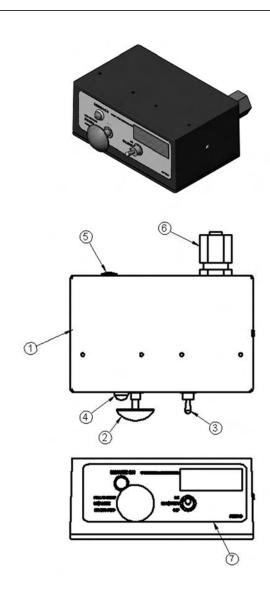
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	CABLE DRAFT BEAM
2	6T0106	1	TRAVEL LOCK BRACKET
3	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
4	6T3020	2	R - CLIP 5/32"
5	21833	1	CAPSCREW 3/4" X 2 1/4"
6	21825	1	HEX NUT 3/4"
7	21993	1	LOCK WASHER 3/4"
8	22021	1	FLAT WASHER 3/4"
9	22600	1	TRAVEL LOCK EAR
10	22604	2	PIN HOLDER
11	22601C	1	TRAVEL LOCK ASY
12		-	MAIN FRAME *REFER TO PARTS SECTION

COMBO DRAFT BEAM TRAVEL LOCK



ITEM	PART NO.	QTY.	DESCRIPTION
1		-	COMBO DRAFT BEAM
2	6T0106	1	TRAVEL LOCK BRACKET
3	21833	1	CAPSCREW 3/4" X 2 1/4"
4		-	MAIN FRAME *REFER TO PARTS SECTION
5	33856	1	BRKT,PIN HOLDER
6	21988	2	LOCK WASHER 3/8"
7	21629	2	CAPSCREW 3/8" X 3/4"
8	6T3020	2	R - CLIP 5/32"
9	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
10	22021	1	FLAT WASHER 3/4"
11	21993	1	LOCK WASHER 3/4"
12	21825	1	HEX NUT 3/4"

SWITCH BOX

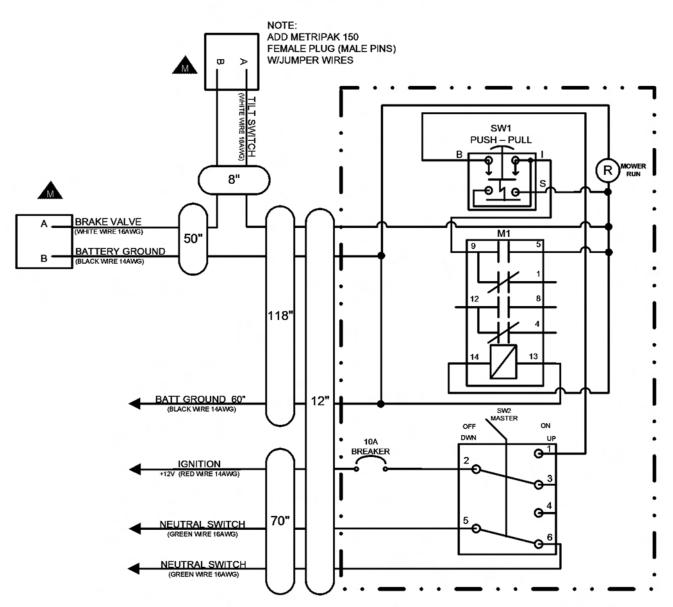


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514013	1	SWBX,ALUM,BLK,06510102
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	6T3923	1	INDICTATOR LIGHT,ON,RED
5	06514014	1	BREAKER,10A,SWBX
6	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
7	06550018	1	DECAL,SWTCHBX,TM/TSF,CG
8	35227	1	RELAY,DP,DT,12V,LY2F,35226

SWITCH BOX SCHEMATIC

06510102 SCHEMATIC

COMMON GROUND SWITCH BOX SIDE MOWER

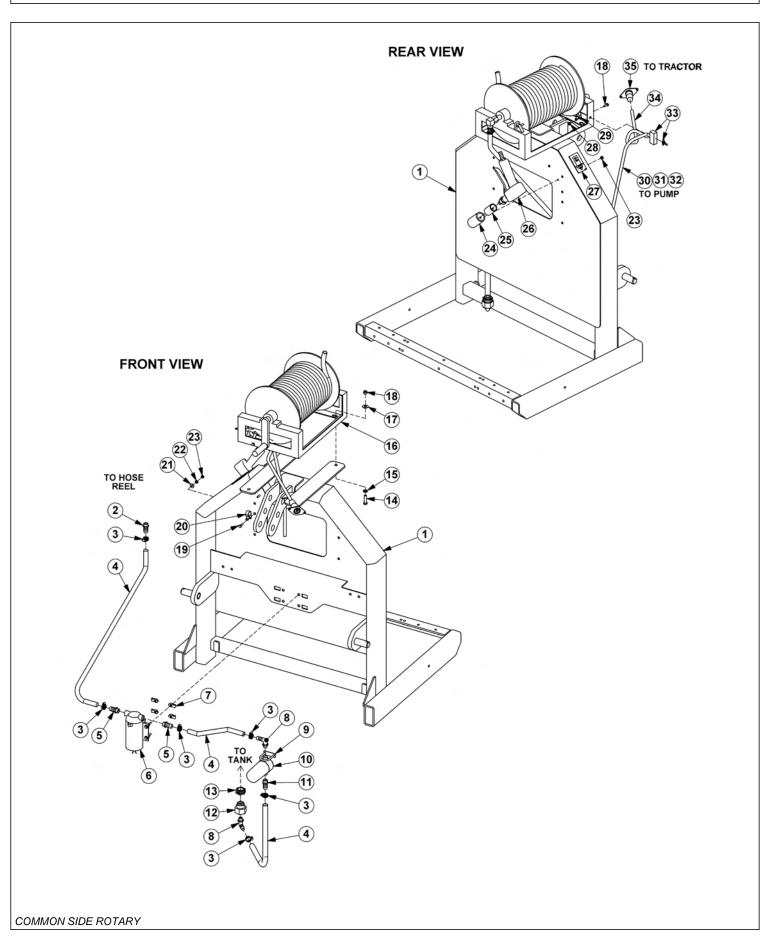


SEE DRAWING # 06515000 FOR A FULL DESCRIPTION OF ALL CONNECTORS

NOTES 1
NOTES
NOTES
COMMON SIDE ROTARY

FIRE SUPPRESSION SYSTEM				
FIRE SUPPRESSION SYSTEM SECTION				
COMMON SIDE ROTART				

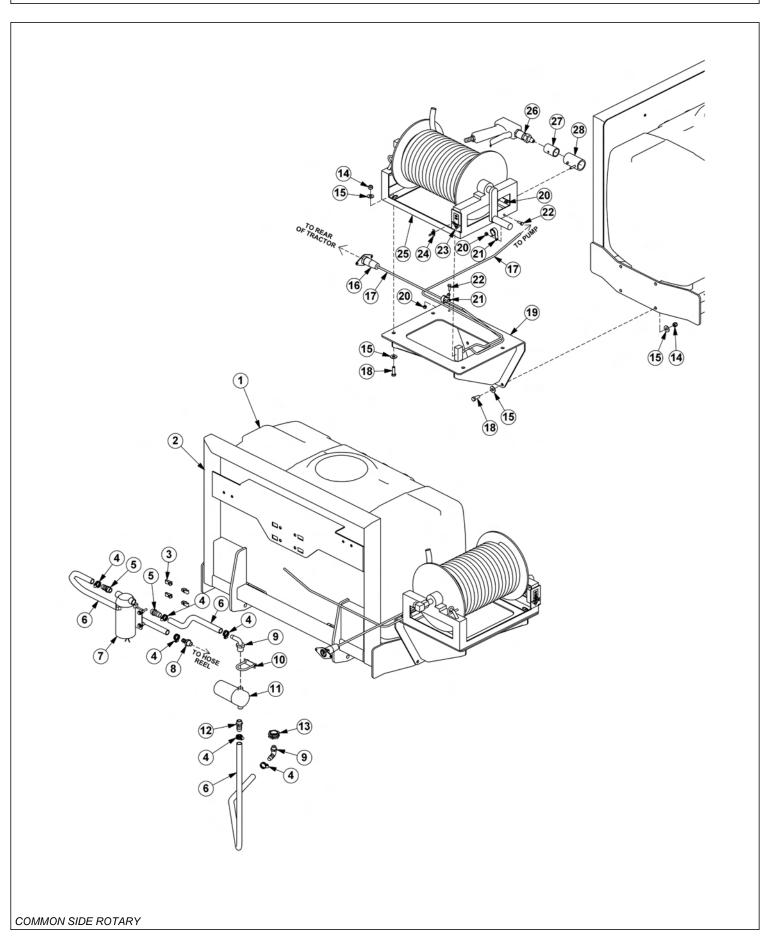
FIRE SUPPRESSION 3-POINT MOUNT



FIRE SUPPRESSION 3-POINT MOUNT

1				
	ITEM	PART NO.	QTY.	DESCRIPTION
l	1	06370137	1	MOUNT,3PNT,FIRE SYS
	2	06503108	1	FITTING,1/2"BARB X 1/2"MP
	3	35091	6	CLAMP,HOSE,#6
	4	06520469	5	HOSE,1/2",BULK (FEET)
	5	06503168	2	SWIVEL,1/2"STR,POLY
	6	06520359	1	PUMP,LARGE
	7	35176	4	U-NUT,1/4"
	8	06520367	2	ELBOW,1/2"BARB X 1/2"MP,POLY
	9	27329	1	U-BOLT,1/4"
	10	06520361	1	FILTER
		06520351	1	ELEMENT, FILTER
	11	06520349	1	FITTING,BARB,HOSE
	12	06503169	1	REDUCER,BUSHING (100 & 150 GALLON TANKS ONLY)
	13	06520346	1	FITTING,BULKHEAD (50 GALLON TANKS ONLY)
	14	21632	4	CAPSCREW,3/8" X 1-1/2",NC
	15	21988	4	LOCKWASHER,3/8"
	16	06520360	1	HOSE REEL
	17	22016	4	FLATWASHER,3/8"
	18	21627	4	NYLOCK NUT,3/8",NC
	19	21529	2	CAPSCREW,1/4" X 3/4",NC
	20	06510258	1	CLAMP,3/4"
	21	22014	1	FLATWASHER,1/4"
	22	21986	1	LOCKWASHER,1/4"
	23	21525	2	HEX NUT,1/4",NC
	24	06370121	1	HOLSTER
	25	06430090	1	SLEEVE
	26	06520366	1	GUN,FIRE SYS
	27	6T3222	1	DECAL
	28	21527	1	NYLOCK NUT,1/4",NC
	29	06510257	1	CLAMP,3/8"
	30	28055	5	WIRE,BLACK,14GA (FEET)
	31	24200	5	WIRE,RED,14GA (FEET)
	32	22802	5	WIRE WRAP (FEET)
	33	PT3905A	1	SWITCH
	34	06510256	4	CABLE,14GA,4WIRE (FEET)
	35	06510255	1	PLUG,7PIN,TRCTR
1				

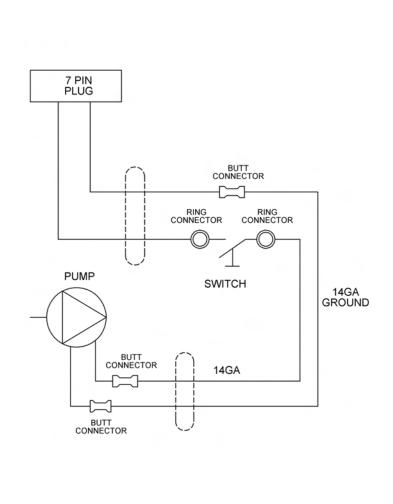
FIRE SUPPRESSION FRONT MOUNT



FIRE SUPPRESSION FRONT MOUNT

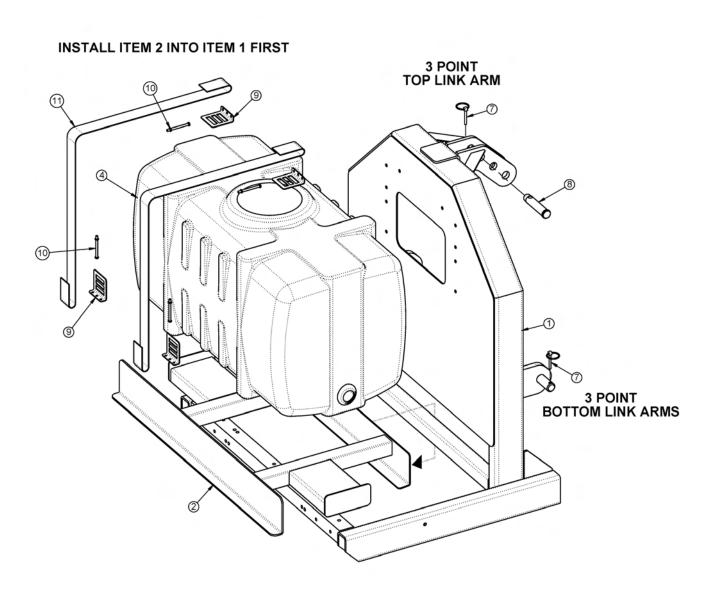
ITEM	PART NO.	QTY.	DESCRIPTION
1	06520342	1	TANK,50 GALLON
2	06370204	1	MNT,TANK,FRNT,50 GALLON
3	35176	4	U-NUT,1/4,3/4 TO CENTER
4	35091	6	CLAMP,HOSE,#6
5	06503168	2	SWIVEL,1/2 STR,POLY
6	06520469	8	HOSE,1/2,SPRAYER
7	06520359	1	PUMP,FIRE KIT
8	06503108	1	FITTING,1/2"BARB X 1/2"MP
9	06520367	2	ELBOW,1/2MPX1/2BARB,POLY
10	27329	1	U-BOLT,1/4X2X1
11	06520361	1	FILTER,FIRE KIT,RAILKUT
	06520351	1	STRAINER,40 MESH
12	06520349	1	FITTING,BARB,HOSE,WETCUT
13	06520346	1	FITTING,BULKHEAD
14	21627	8	NYLOCK NUT,3/8 NC
15	22016	16	FLATWASHER,3/8,GR8
16	06510255	1	PLUG,7PIN,TRCTR
17	06510256	22	WIRE,14GA,4WIRE (FEET)
18	21631	8	CAPSCREW,3/8X1 1/4, NC,GR8
19	06370207	1	MNT,FIRE SUPPRESSION
20	21527	3	NYLOCK NUT,1/4 NC
21	06510257	2	CLAMP,3/8X1/4,INS
22	21529	2	CAPSCREW,1/4 X 3/4 NC
23	6T3222	1	DECAL,CONTROL,ON-OFF SWITCH
24	PT3905A	1	SWITCH,MOWER
25	06520360	1	HOSE REEL,FIRE KIT,RAILKUT
26	06520366	1	GUN,FIRE KIT,RAILKUT
27	06430090	1	SLEEVE,GUN,FIRE SYS
28	06370121	1	HOLSTER,FIRESYS,RAILKUT





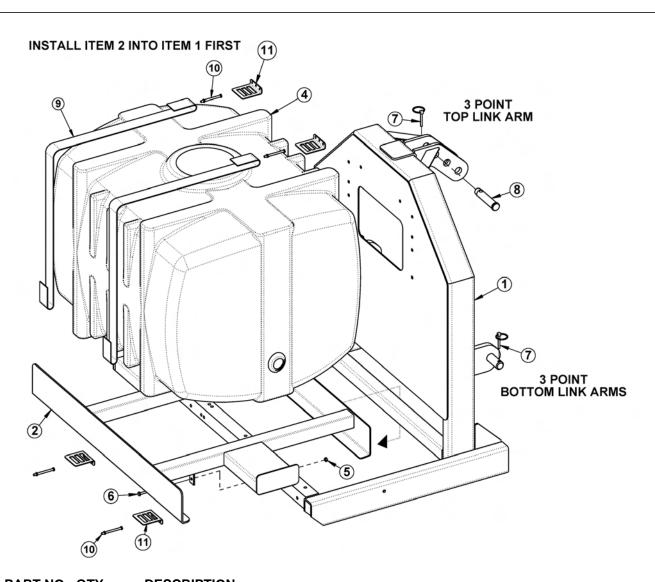
WETCUT	
	WETCUT
	SECTION
COMMON SIDE ROTARY	

WETCUT 50 GALLON TANK - 3PNT MOUNT



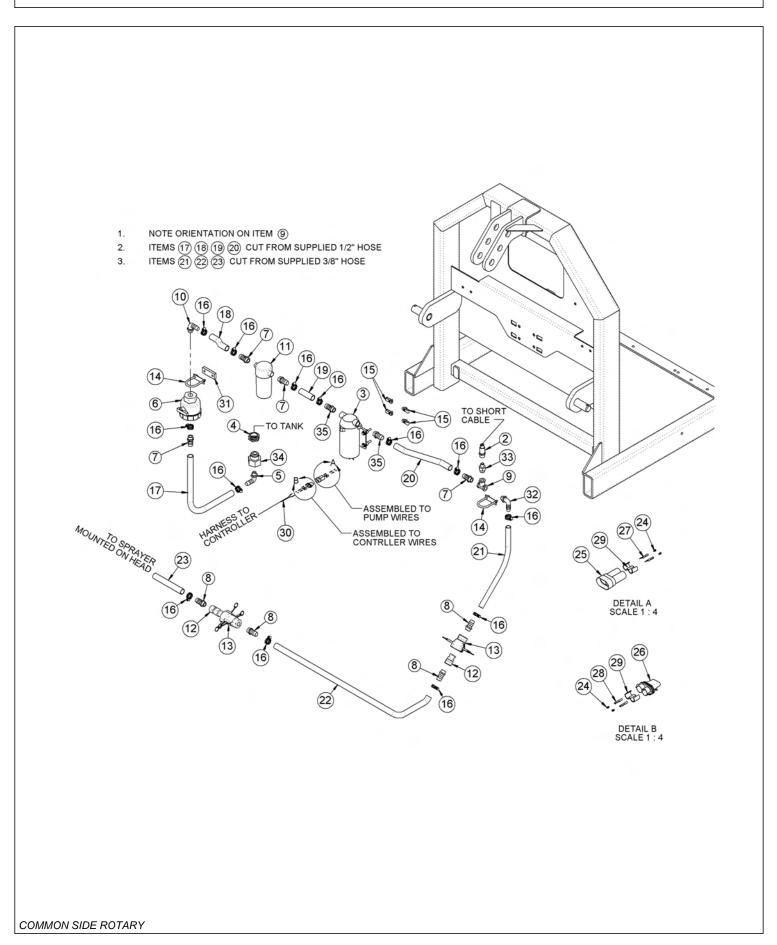
ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	06370136	1	MNT,TANK,50GAL,WETCUT
4	06520342	1	TANK,50GA.,WETCUT
7	RD1032	3	PIN,LYNCH 1/4" X 2"
8	TB1036	1	PIN,SEC BOOM SWIV 1X4-11/16"
9	06520343	4	ANCHOR,STRAP,WETCUT
10	06520344	4	BOLT,STRAP,TANK,WETCUT
11	06520345	2	STRAP,TANK,WETCUT

WETCUT 100 OR 150 GALLON TANK - 3PNT MOUNT



ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	06370138	1	MNT,TANK,100GAL,WETCUT
	06370139	-	MNT,TANK,150GAL,WETCUT
4	06520372	1	TANK,100GA.,WETCUT
	06520373	-	TANK,150GA.,WETCUT
5	21527	2	HEX NUT,NYLOCK,1/4" NC
6	21530	2	CAPSCREW,1/4" X 1" NC
7	RD1032	3	PIN,LYNCH 1/4" X 2"
8	TB1036	1	PIN,SEC BOOM SWIV 1X4-11/16"
9	06520345	2	STRAP,TANK,WETCUT
10	06520344	4	BOLT,STRAP,TANK,WETCUT
11	06520343	4	ANCHOR,STRAP,WETCUT

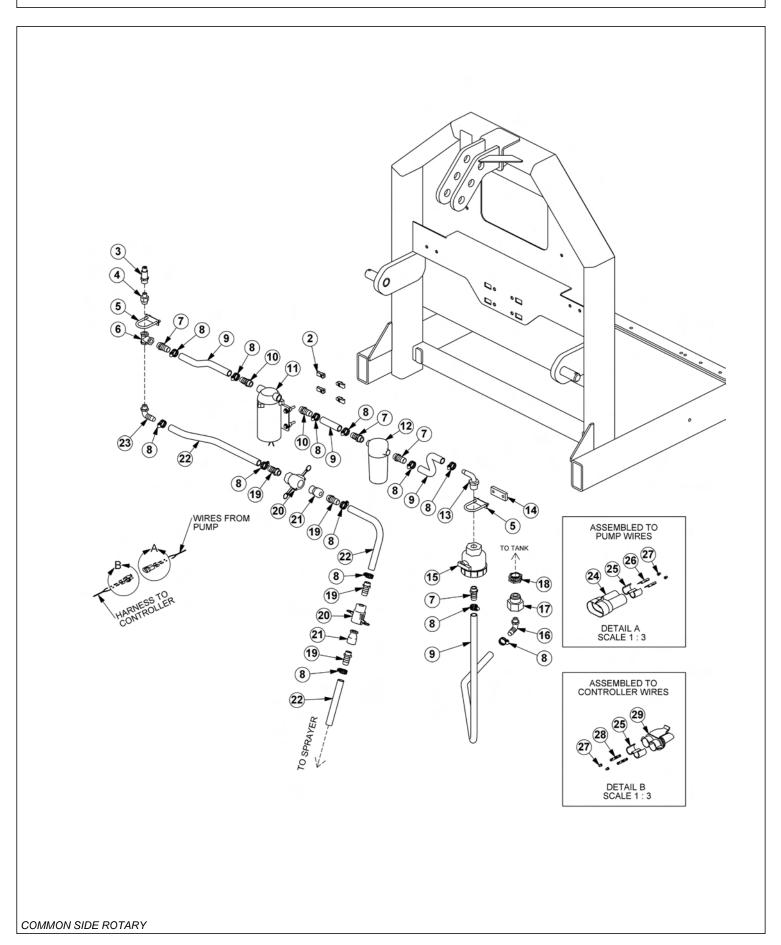
WETCUT 3PNT PLUMBING - 50IN MOWERS



WETCUT 3PNT PLUMBING - 50IN MOWERS

ITEM PART NO. QTY. DESCRIPTION	
1 06370128 1 MNT,3PNT,UNI	
2 06520336 1 CNTRLR,SENSOR,06520333	
3 06520341 1 PUMP,WETCUT	
4 06520346 1 FITTING,BULKHEAD,WETCUT (50 C	GALLON TANKS ONLY)
5 06520347 1 FITTING,ELBOW,WETCUT	
6 06520348 1 VLV,BALL,WETCUT	
7 06520349 4 FITTING,BARB,HOSE,WETCUT	
8 06503173 4 FITTING,1/2MP X 3/8"BARB	
9 06520353 1 FITTING,TEE,WETCUT	
10 06520367 1 ELBOW,1/2" X 1/2"BARB,POLY	
11 06520361 1 FILTER,FIRE KIT,RAILKUT	
12 06520400 2 QUIK CPLR,MALE,1/2",WETCUT	
13 06520401 2 QUIK CPLR,FEM,1/2",WETCUT	
14 27329 2 U-BOLT,1/4" X 1" X 2"	
15 35176 4 U-NUT,1/4",3/4" TO CENTER	
16 35091 13 CLAMP, HOSE #6	
17 - 20 06520469 5 1/2" HOSE (FEET)	
21 - 23 06520316 - 3/8" HOSE (INCLUDED WITH SPRAY	YER)
24 06510051 4 SEAL,16-18GA,METPAK	
25 06510052 1 CONN.,BODY,MALE,METRIPACK 15	50
26 06510053 1 CONN.,BODY,FEM,METRIPACK 150	
27 06510054 2 TERMINAL,MALE,16/18GA.METPAK	ζ
28 06510055 2 TERMINAL,FEM,16/18GA.METPAK	
29 06510056 2 TPA	
30 06520337 1 INCLUDED WITH CONTROLLER	
31 06401133 1 SPACER,Ø.31" X 1.75" X .38"	
32 06503165 1 ELBOW,1/2"MP X 3/8"BARB	
33 06520354 1 BUSHING,REDUCER,WETCUT	
34 06503169 1 BUSHING,1"MP X 1/2"FP (100 & 150 o	GALLON TANKS ONLY)
35 06503176 2 FITTING,BARB,3/8"MP X 1/2"BARB	

WETCUT 3PNT PLUMBING - LARGE MOWERS

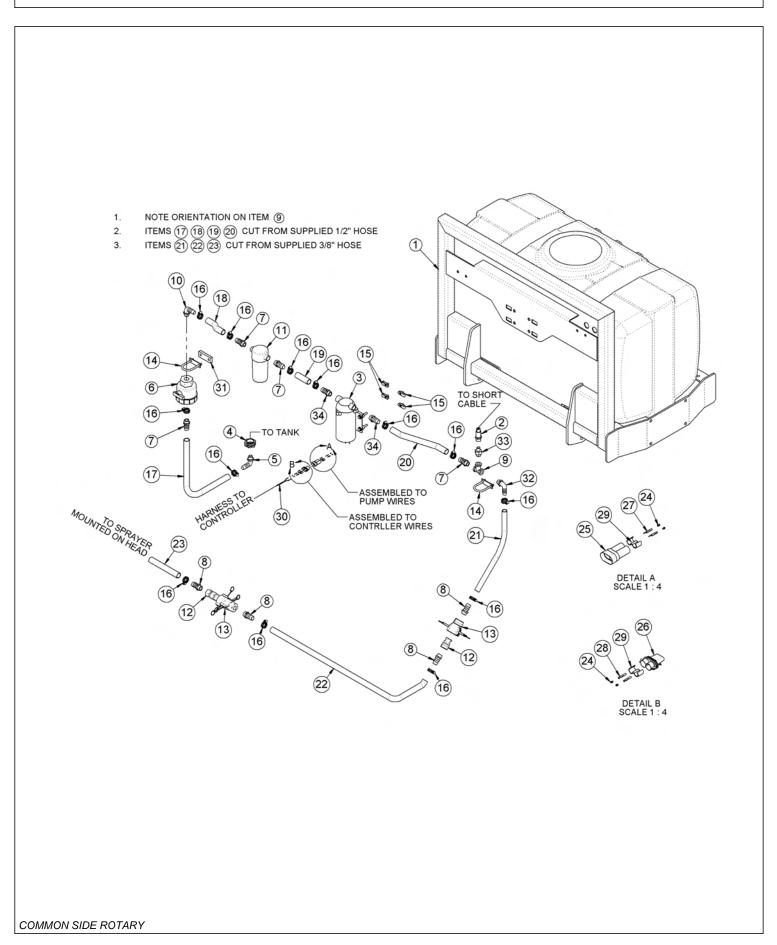


WETCUT 3PNT PLUMBING - LARGE MOWERS

Continued...

	ITEM	PART NO.	QTY.	DESCRIPTION
	1	06370128	1	MNT,3PNT,UNI
	2	35176	4	U-NUT,1/4,3/4 TO CENTER
	3	06520336	1	CNTRLR,SENSOR,06520333
	4	06520354	1	BUSHING,REDUCER,WETCUT
	5	27329	2	U-BOLT,1/4" X 1" X 2"
	6	06520353	1	FITTING,TEE,WETCUT
	7	06520349	4	FITTING,BARB,HOSE,WETCUT
	8	35091	13	CLAMP, HOSE #6
	9	06520469	5	1/2" HOSE (FEET)
	10	06503168	2	SWIVEL,1/2" STR
	11	06520359	1	PUMP,LARGE
	12	06520361	1	FILTER,FIRE KIT,RAILKUT
		06520351	1	STRAINER,40MESH
	13	06520367	1	ELBOW,1/2X1/2BARB,POLY
	14	06401133	1	SPACER,Ø.31X1.75X.38
	15	06520348	1	VLV,BALL,WETCUT
	16	06520347	1	FITTING,ELBOW,WETCUT
	17	06503169	1	BUSHING,1MPX1/2FP (100 & 150 GALLON TANKS ONLY)
	18	06520346	1	FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY)
	19	06503173	4	FITTING,BARB,1/2X3/8,WETCUT
	20	06520401	2	QUIK CPLR,FEM,1/2,WETCUT
	21	06520400	2	QUIK CPLR,MALE,1/2,WETCUT
	22	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
	23	06503165	1	ELBOW,1/2X3/8BARB,POLY
	24	06510052	1	CONN.,BODY,MALE,METRIPACK 150
	25	06510056	2	TPA
	26	06510054	2	TERMINAL,MALE,16/18GA.METPAK
	27	06510051	4	SEAL,16-18GA,METPAK
	28	06510055	2	TERMINAL,FEM,16/18GA.METPAK
	29	06510053	1	CONN.,BODY,FEM,METRIPACK 150
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WETCUT FRONT PLUMBING - 50IN MOWERS



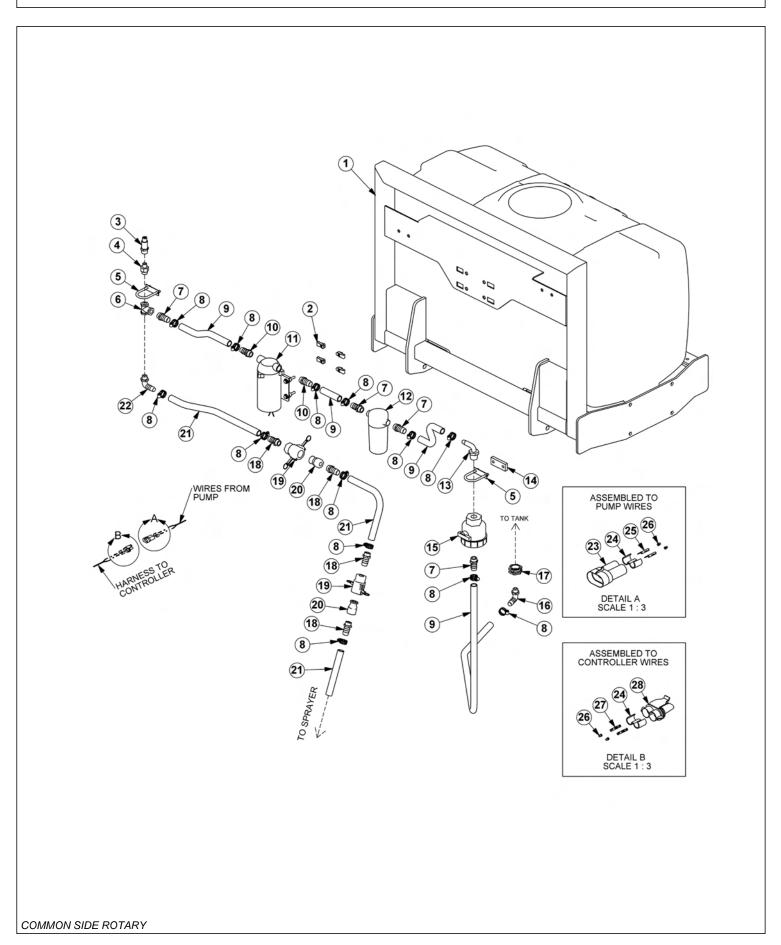
WETCUT FRONT PLUMBING - 50IN MOWERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370204	1	MNT,FRONT,UNI
2	06520336	1	CNTRLR,SENSOR,06520333
3	06520341	1	PUMP,WETCUT
4	06520346	1	FITTING,BULKHEAD,WETCUT
5	06520347	1	FITTING,ELBOW,WETCUT
6	06520348	1	VLV,BALL,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	06503173	4	FITTING,1/2"MP X 3/8"BARB
9	06520353	1	FITTING,TEE,WETCUT
10	06520367	1	ELBOW,1/2"MP X 1/2"BARB,POLY
11	06520361	1	FILTER,FIRE KIT,RAILKUT
	06520351	1	STRAINER,40MESH
12	06520400	2	QUIK CPLR,MALE,1/2",WETCUT
13	06520401	2	QUIK CPLR,FEM,1/2",WETCUT
14	27329	2	U-BOLT,1/4" X 1" X 2"
15	35176	4	U-NUT,1/4",3/4" TO CENTER
16	35091	13	CLAMP,HOSE #6
17 - 20	06520469	5	1/2" HOSE (FEET)
21 - 23	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
24	06510051	4	SEAL,16-18GA,METPAK
25	06510052	1	CONN.,BODY,MALE,METRIPACK 150
26	06510053	1	CONN.,BODY,FEM,METRIPACK 150
27	06510054	2	TERMINAL,MALE,16/18GA.METPAK
28	06510055	2	TERMINAL,FEM,16/18GA.METPAK
29	06510056	2	TPA
30	06520337	1	INCLUDED WITH CONTROLLER
31	06401133	1	SPACER,Ø.31" X 1.75" X .38"
32	06503165	1	ELBOW,1/2"MP X 3/8"BARB,POLY
33	06520354	1	BUSHING,REDUCER,WETCUT
34	06503176	2	FITTING,3/8"MP X 1/2"BARB

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WETCUT FRONT PLUMBING - LARGE MOWERS

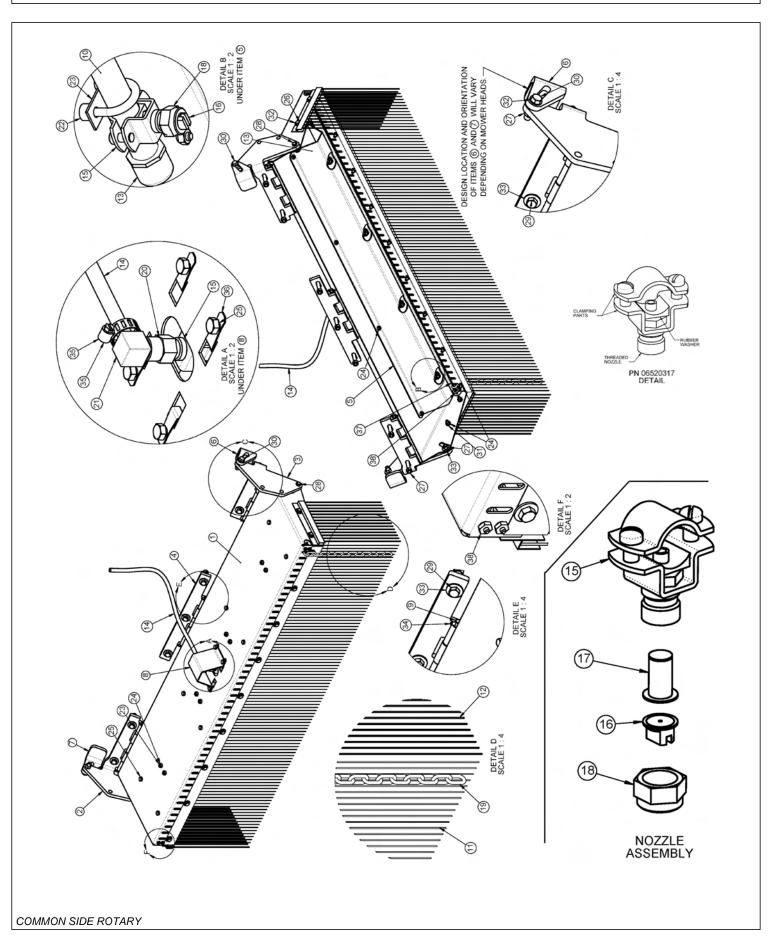


WETCUT FRONT PLUMBING - LARGE MOWERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370204	1	MNT,FRONT,UNIV
2	35176	4	U-NUT,1/4,3/4 TO CENTER
3	06520336	1	CNTRLR,SENSOR,06520333
4	06520354	1	BUSHING,REDUCER,WETCUT
5	27329	2	U-BOLT,1/4" X 1" X 2"
6	06520353	1	FITTING,TEE,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	35091	13	CLAMP, HOSE #6
9	06520469	5	1/2" HOSE (FEET)
10	06503168	2	SWIVEL,1/2" STR
11	06520359	1	PUMP,LARGE
12	06520361	1	FILTER,FIRE KIT,RAILKUT
	06520351	1	STRAINER,40MESH
13	06520367	1	ELBOW,1/2X1/2BARB,POLY
14	06401133	1	SPACER,Ø.31X1.75X.38
15	06520348	1	VLV,BALL,WETCUT
16	06520347	1	FITTING,ELBOW,WETCUT
17	06520346	1	FITTING,BULKHEAD,WETCUT
18	06503173	4	FITTING,BARB,1/2X3/8,WETCUT
19	06520401	2	QUIK CPLR,FEM,1/2,WETCUT
20	06520400	2	QUIK CPLR,MALE,1/2,WETCUT
21	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
22	06503165	1	ELBOW,1/2X3/8BARB,POLY
23	06510052	1	CONN.,BODY,MALE,METRIPACK 150
24	06510056	2	TPA
25	06510054	2	TERMINAL,MALE,16/18GA.METPAK
26	06510051	4	SEAL,16-18GA,METPAK
27	06510055	2	TERMINAL,FEM,16/18GA.METPAK
28	06510053	1	CONN.,BODY,FEM,METRIPACK 150

WETCUT 50IN SPRAYER HEAD ASSEMBLY



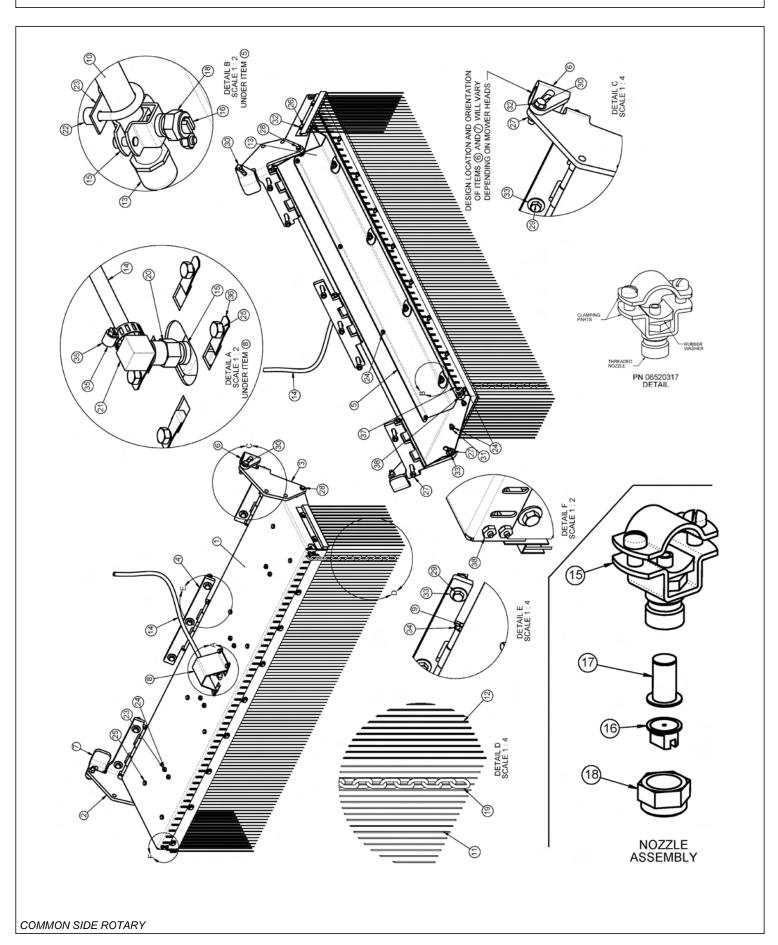
WETCUT 50IN SPRAYER HEAD ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370105	1	HOOD,SPRAYER
2	06370106	1	HINGE,LH,SPRAYER
3	06370107	1	HINGE,RH,SPRAYER
4	06370108	1	HINGE,CNTR,SPRAYER
5	06410668	1	GUARD,SPRAYER,WETCUT
6	06410753	1	MNT,RH,WET CUT (FLAIL)
	06410942	1	MNT,RH,WET CUT (ROTARY)
7	06410754	1	MNT,LH,WET CUT (FLAIL)
	06410943	1	MNT,LH,WET CUT (ROTARY)
8	06410796	1	GUARD,HOSE,WETCUT
9	06420069	3	PIN,HINGE,WET CUT
10	06497003	1	TUBE,LG,SPRAYER
11	06499012	1	SKIRT,ANTI SPRAY,50
12	06499013	2	SKIRT,ANTI SPRAY,7
13	06520314	2	TUBE,CAP,SPRAYER
14	06520316	15	HOSE,SPRAYER (FEET)
15	06520317	5	NOZZLE,SPRAYER
16	06520319	4	TIP,NOZZLE,SPRAYER
17	06520320	4	FILTER,NOZZLE,SPRAYER
18	06520321	4	NUT,NOZZLE,SPRAYER
19	06520322	49	CHAIN,.18" X 1.31" X 13LINKS
20	06520381	1	ADAPTER,1/4"NPT,WETCUT
21	06520382	1	ELBOW,BARB,3/8" X 1/4"NPT
22	06520383	8	SPACER,.50"O.D. X .252"I.D. X .38",NYLON
23	32550	4	U-BOLT,1/4" X 1" X 1" X 1-3/4"
24	21527	29	HEX NUT,NYLOCK,1/4",NC
25	21528	12	CAPSCREW,1/4" X 1/2",NC
26	21529	13	CAPSCREW,1/4" X 3/4",NC
27	21625	11	HEX NUT,3/8",NC
28	21630	2	CAPSCREW,3/8" X 1",NC
29	21634	7	CAPSCREW,3/8" X 2",NC
30	21632	2	CAPSCREW,3/8" X 1-1/2",NC
31	21986	4	LOCKWASHER,1/4"
32	22014	15	FLATWASHER,1/4"
33	22016	9	FLATWASHER,3/8",GR8
34	34698	6	ROLL PIN, PLAIN, 3/16" X 7/8"
35	35091	1	CLAMP,HOSE #6
36	35176	4	U-NUT,1/4",3/4" TO CENTER
37	06520376	5	CABLE,3/16"
38	06537022	2	U-BOLT,CABLE,3/16"

COMMON SIDE ROTARY

WETCUT 60IN SPRAYER HEAD ASSEMBLY



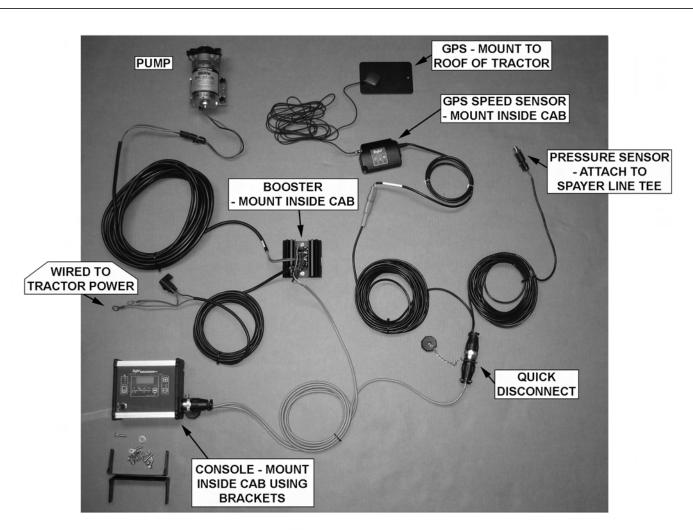
WETCUT 60IN SPRAYER HEAD ASSEMBLY

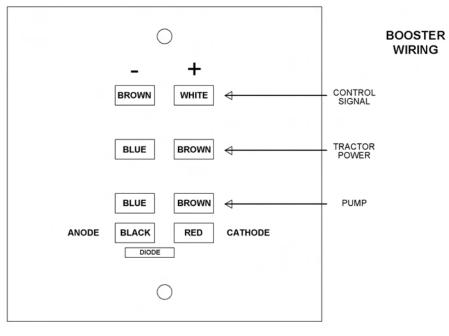
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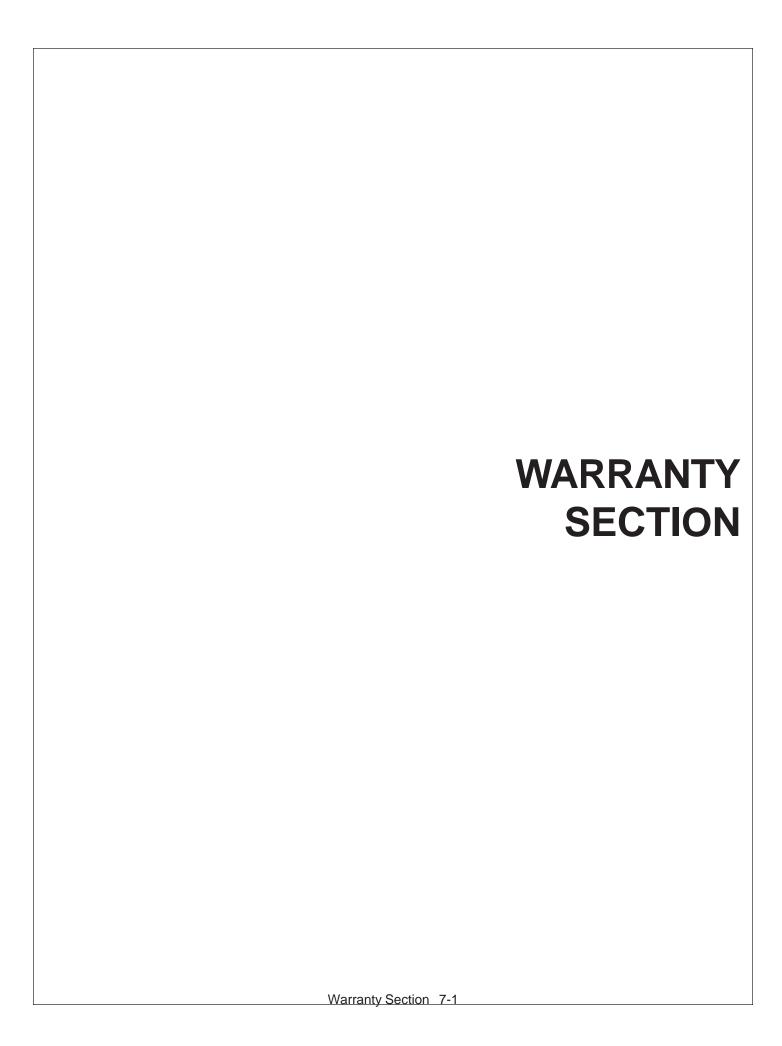
ITEM	PART NO.	QTY.	DESCRIPTION
1	06370210	1	HOOD,SPRAYER
2	06370106	1	HINGE,LH,SPRAYER
3	06370107	1	HINGE,RH,SPRAYER
4	06370108	1	HINGE,CNTR,SPRAYER
5	06411234	1	GUARD,SPRAYER,WETCUT
6	06410753	1	MNT,RH,WET CUT (FLAIL)
	06410942	1	MNT,RH,WET CUT (ROTARY)
7	06410754	1	MNT,LH,WET CUT (FLAIL)
	06410943	1	MNT,LH,WET CUT (ROTARY)
8	06410796	1	GUARD,HOSE,WETCUT
9	06420069	3	PIN,HINGE,WET CUT
10	06497009	1	TUBE,LG,SPRAYER
11	06499018	1	SKIRT,ANTI SPRAY,60
12	06499013	2	SKIRT,ANTI SPRAY,7
13	06520314	2	TUBE,CAP,SPRAYER
14	06520316	15	HOSE,SPRAYER (FEET)
15	06520317	6	NOZZLE,SPRAYER
16	06520319	5	TIP,NOZZLE,SPRAYER
17	06520320	5	FILTER,NOZZLE,SPRAYER
18	06520321	5	NUT,NOZZLE,SPRAYER
19	06520322	61	CHAIN,.18" X 1.31" X 13LINKS
20	06520381	1	ADAPTER,1/4"NPT,WETCUT
21	06520382	1	ELBOW,BARB,3/8" X 1/4"NPT
22	06520383	10	SPACER,.50"O.D. X .252"I.D. X .38",NYLON
23	32550	5	U-BOLT,1/4" X 1" X 1" X 1-3/4"
24	21527	33	HEX NUT,NYLOCK,1/4",NC
25	21528	15	CAPSCREW,1/4" X 1/2",NC
26	21529	13	CAPSCREW,1/4" X 3/4",NC
27	21625	13	HEX NUT,3/8",NC
28	21630	2	CAPSCREW,3/8" X 1",NC
29	21634	7	CAPSCREW,3/8" X 2",NC
30	21632	4	CAPSCREW,3/8" X 1-1/2",NC
31	21986	4	LOCKWASHER,1/4"
32	22014	33	FLATWASHER,1/4"
33	22016	11	FLATWASHER,3/8",GR8
34	34698	6	ROLL PIN, PLAIN, 3/16" X 7/8"
35	35091	1	CLAMP,HOSE #6
36	35176	4	U-NUT,1/4",3/4" TO CENTER
37	06520376	6	CABLE,3/16" (FEET)
38	06537022	2	U-BOLT,CABLE,3/16"

COMMON SIDE ROTARY

WETCUT CABLES







WARRANTY INFORMATION

Tiger Corporation, 3301 N. Louise, Sioux Falls, South Dakota, warrants to the original Retail Customer, the new Tiger equipment is free of defects in material and workmanship. Any part of equipment that in Tiger's judgement, show evidence of such defects will be repaired or replaced without charge, provided that the failure of part(s) shall have occurred within twelve (12) months from the date of delivery of said equipment to the Retail Customer. Expendable components such as knives, oil, chain sprockets, skid shoes, knife mounting disks and the like are excluded but not limited to this warranty.

The Retail Customer must pay the transportation cost to and from the Tiger Dealer's service shop for warranty service. Warranty service will be performed by the Tiger Dealer from whom the equipment was purchased, during service shop regularly scheduled days and hours of operation.

All Tiger obligation under this warranty shall be terminated if the equipment is modified or altered in ways not approved in writing by Tiger, if repair parts other than genuine Tiger repair parts have been used, or if the equipment has been subject to misuse, neglect, accident, improper maintenance or improper operation.

Tiger Corporation reserves the right to make improvements in design or changes in specification at any time without incurring any obligation to owners of equipment previously sold.

No agent or person has authority to alter, add to or waive the above warranties which are agreed to be in the only warranties, representations or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty of merchantability or fitness. In no event will Tiger be liable for incidental or consequential damages or injuries, including, but not limited to, loss of profits, rental or substitute equipment or other commercial loss.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSED HEREIN.

It is the Purchasers obligation to sign the warranty registration form **AFTER** he / she has Read and Understands the Operation and Safety Instructions stated within this manual.

ONE LAST WORD

This manual cannot possibly cover all of the potentially hazardous situations you will encounter. By being familiar with the safety rules, operating and maintenance instructions in this manual you can help prevent accidents. The objective of this manual is to help make you a better operator. Remember,

SAFETY IS YOU!



Your safety and the safety of those around you depends on YOU. Common sense should play a large role in the operation of this machine.

Since we at Tiger Corporation are constantly striving to improve out products, we reserve the right to change specifications or design at any time.

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 and on the machine. The table of contents clearly identifies each section where you can easily find the information you need.

The Occupational Safety and Health Act (OSHA 1928.51 subpart C) makes the following minimum requirements for tractor operators.

OWNER REQUIREMENTS:

- 1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
- 2. Provide Seatbelts that meet the requirements of this Standard and SAE J3C; and
- 3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
- 4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

OPERATOR REQUIREMENTS:

- 1. Securely fasten seatbelt it the tractor has a ROPS.
- 2. Where possible, avoid operating the tractor near steep 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 tractor smoothly no jerky turns, starts, or stops.
- 8. Hitch only to the draw-bar and hitch points recommended by the tractor manufacturer.
- 9. When the tractor is stopped, set brakes securely and use park lock, if available

