

SIDE FLAIL ASSEMBLIES

JD 5500 - 5510 CAB, WOC

PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

Tiger Corporation

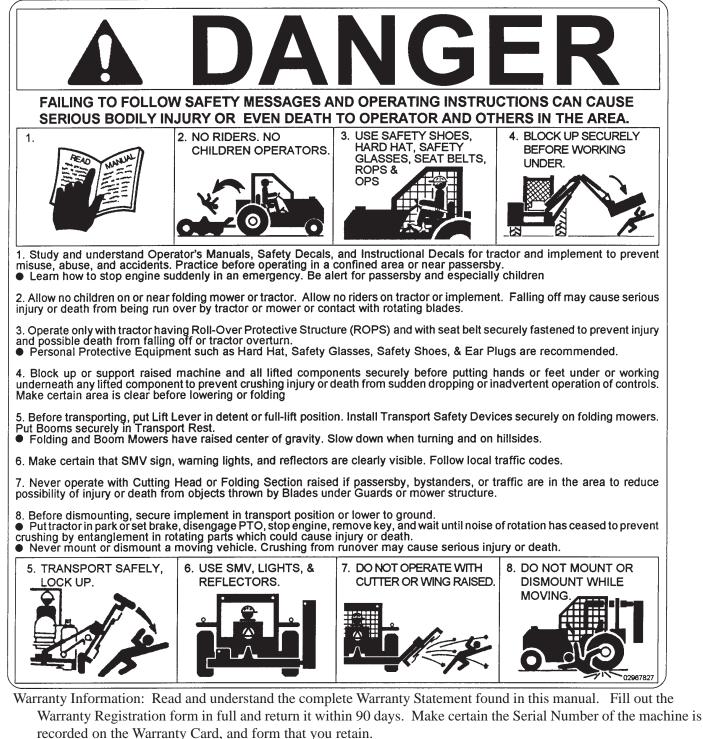
3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900 www.tiger-mowers.com

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!



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 local Tiger Dealer after gathering:
 - 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:
Tiger Corporation	
3301 N. Louise Ave.	
Sioux Falls, SD 57107	1
1-800-843-6849	1
1-605-336-7900	
www.tiger-mowers.com	

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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.



SAFETY SECTION

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 YOU! Only YOU can prevent serious injury or death from unsafe practices.

DANGER!



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

WARNING!



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



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 **IMPORTANT!** in damage to, or destruction of the machine, attachments or the enviroment.

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 medidas de seguridad. (SG-3)



i LEA EL INSTRUCTIVO!



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 and Implement without supervision. Make sure the operator has fully read and understands 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. (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)





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)

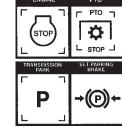


WARNING!

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. $_{\rm (SG-8)}$

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. (SG-9)





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





Never allow children to operate or ride on the Tractor or Implement. $$_{\rm (SG-11)}$$





Do not mount the tractor while the tractor is moving. Mount the tractor only when the tractor and all moving parts are completely stopped. $$^{\rm (SG-12)}$$





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)



Start only from seat in park or neutral. Starting in gear kills.



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)





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)



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMA-NENT 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-I7)

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:

- 1. 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.** Only transport the Tractor and Implement at the speeds that you have determined are safe and which allow you to properly control the equipment.

Be aware of the operating conditions. Do not operate the 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 and watch 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 are properly secured. Serious injury may occur from not maintaining this machine in good working order. (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)



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



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





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)



Do not exceed the rated PTO speed for the Implement. Excessive PTO speeds can cause Implement driveline or blade failures resulting in serious injury or death. (SG-26)





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)



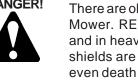


Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. (SG-29)

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!



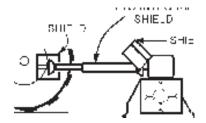
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care 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. (SFL-1)



DANGER!

(but not limited to) - the Deflectors, 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. (SFL-5)

All Safety Shields, Guards and Safety devices including



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. (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)



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)

DANGER!

Replace bent or broken blade with new blades. NEVER ATTEMPT TO STRAIGHTEN OR WELD ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSE-QUENT 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. $(\ensuremath{\mathsf{SGM-11}})$

DANGER!

Flail 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-LESS:

- -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 being removed, and mowed again at desired final height. (SFL-6)



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)

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)



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!

Be particularly careful when transporting the Implement with the Tractor. Turn curves or go up hills only at a low speed and using a gradual steering angle. Rear mounted implements move the center of gravity to the rear and remove weight from the front wheels. Make certain, by adding front ballast, that at least 20% of the tractor's weight is on the front wheels to prevent rearing up, loss of steering control or Tractor tipover. Slow down on rough or uneven surfaces to prevent loss of steering control which could result in property damage or possible injury. Do not transport unless 3-Point lift lever is fully raised and in the latched transport position. Dropping implement in transport can cause serious damage to the tractor and/or Implement and possibly cause the operator or others to be injured or killed. (S3PT-2)







Safety Section 1-9

Always disconnect the main PTO Driveline from the Tractor before performing service on the Mower. Never work on the Mower with the tractor PTO driveline connected and running. Blades or Drivelines could turn without warning and cause immediate entanglement, injury or death. (SRM-3)

WARNING! D re d su

DANGER!

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)





Never leave 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. ^(SPT-1)





Make sure the PTO shield, integral driveline shields, and input shields are is installed when using PTO-driven equipment. Always replace any shield if it is damaged or missing. $_{(S3PT-8)}$

or repair work d or securely 🕌 🚃



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)





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)



When the Wings are folded for transport, the center of gravity is raised and the possibility of overturn is increased. Drive slowly and use extremecaution when turning on hillsides. Overturning the Implement could cause the Implement to overturn the Tractor and vice versa resulting in serious injury or even death. Never fold wings on a hillside...the Implement may overturn. (STL2)



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)





The flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels 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.





The rotating parts of this machine continue to rotate even after the PTO 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. (3PT-10)

"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!

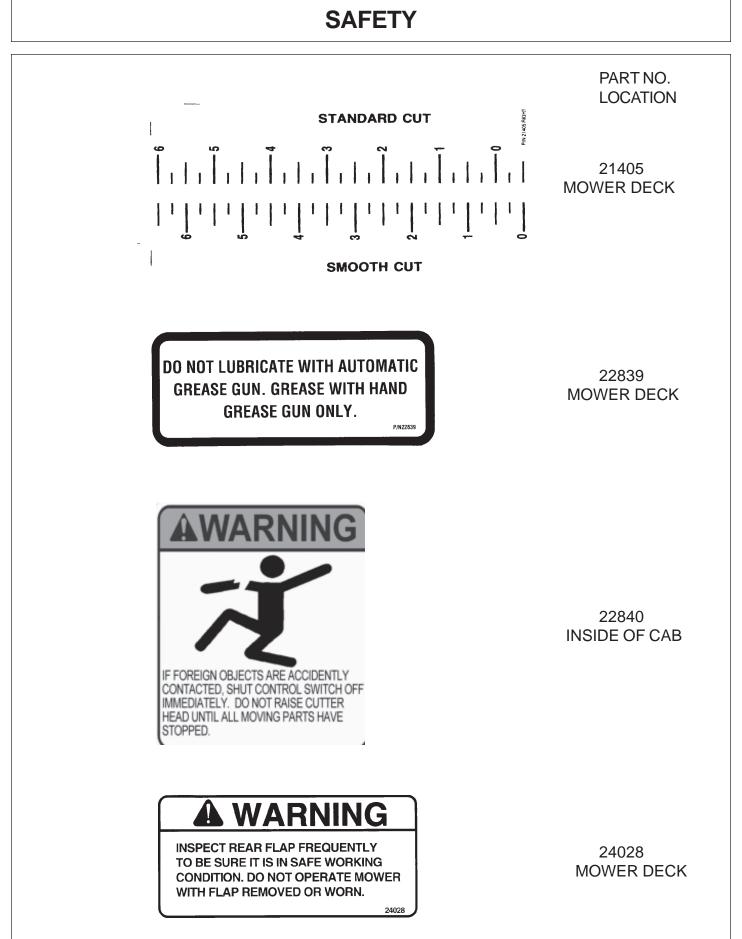


Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

Tiger mowers use balanced and matched system components for blade carriers, blades, cuttershafts, 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 <u>may</u> reduce mower performance, <u>void mower warranties</u> 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)



Safety Section 1-12



PART NO. LOCATION

10" x 5.5" 31522 MOWER DECK 18.25" x10" 31523 HYDRAULIC TANK



42350 MOWER DECK

MOWING SAFETY TIPS

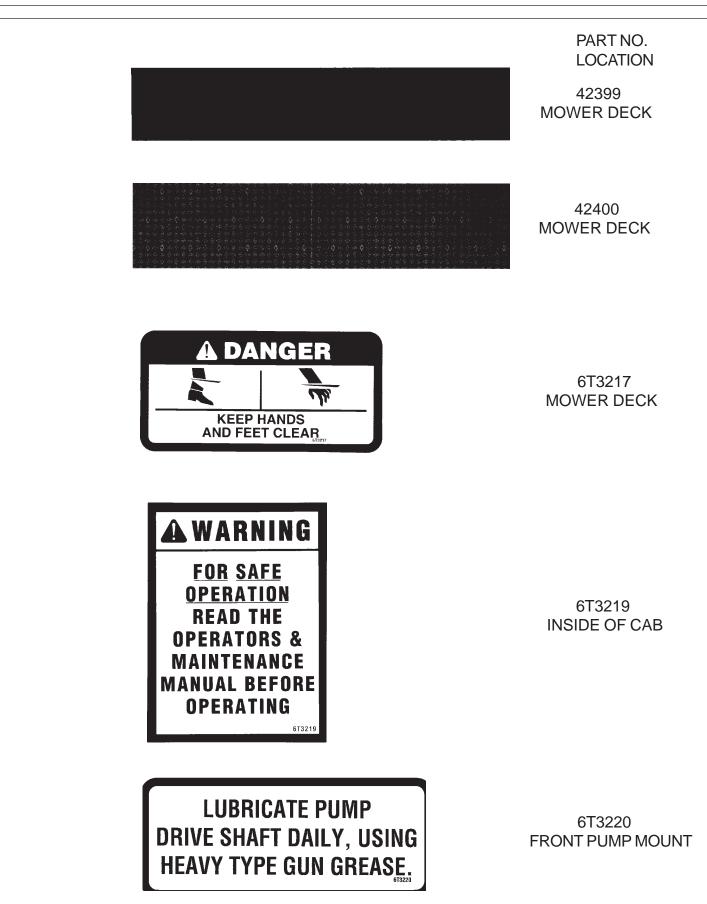
- I Read & understand the Operators Manual.
- I Wear Your Seat Belt.
- Keep all shields and guards in place.
- Make sure equipment is in proper working condition.
- Never attempt to get off or on a moving tractor.
- I > Never allow riders on tractor or equipment.
- $\textcircled{\mathbb{Z}}$ Only start the tractor from the seat with the key.
- IL> Always inspect the area before mowing. Remove all foreign debris.
- Always keep bystanders and coworkers a minimum of 300 feet away.
- Never allow the mower blades to contact solid objects or foreign material.
- III Never approach rotating elements.

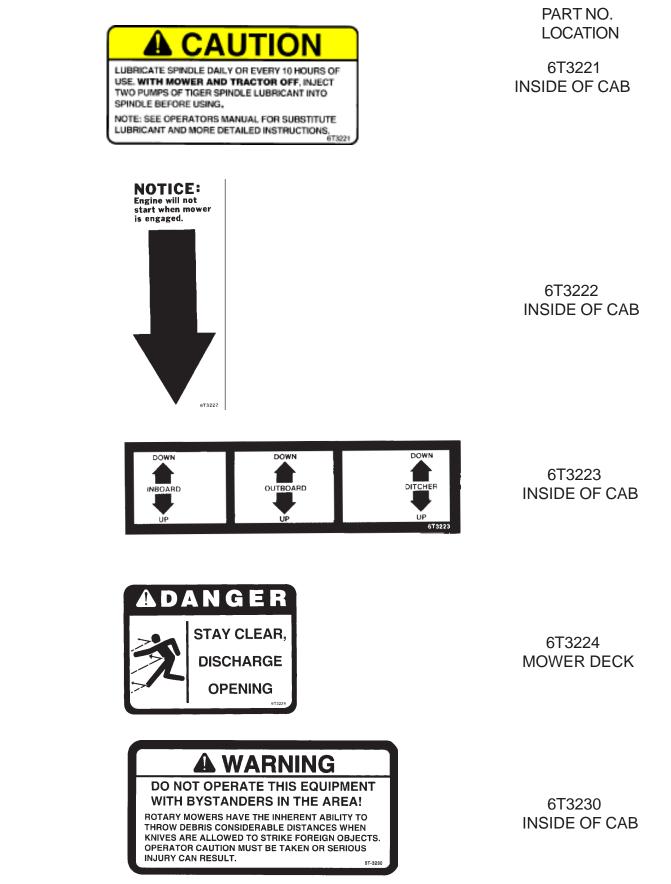
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Disengage the PTO, place transmission in "Park", set parking brake, shut off engine, and remove key and wait until all rotating motion has stopped before leaving seat.

33743 INSIDE OF CAB

i1





Safety Section 1-15

6T-3233

6T3234

PART NO. LOCATION

ACAUTION

DO NOT START OR RUN WITH VALVES CLOSED. (SERIOUS DAMAGE WILL OCCUR) 6T3233 HYDRAULIC TANK

ACAUTION

CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY RESULT FROM IMPROPER MAINTENANCE. 6T3234 INSIDE OF CAB



6T3236 MOWER DECK HYDRAULIC TANK

WARNING

IT IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED. REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FALURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH. IMPORTANT • WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. • SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS. • 012243

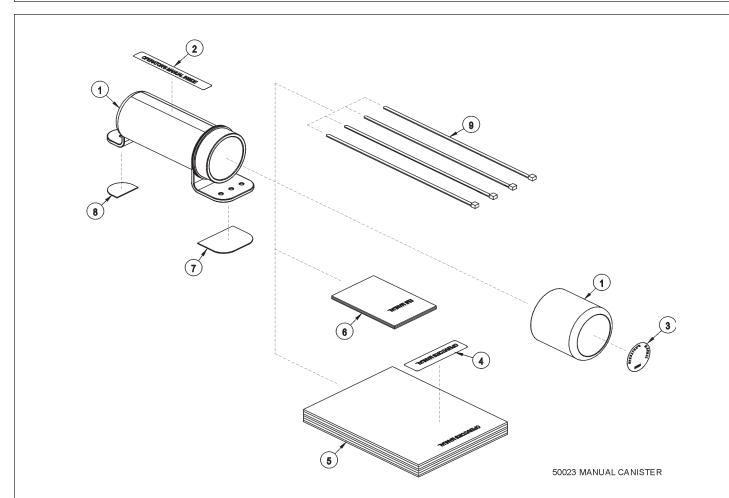
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Safety Section 1-16

	Tiger Corporation 800-843-6849 www.tiger-mowers.com			
Description	Application	General Specification	Recommended Lubricant	
Tractor Hydraulics	Reservoir	JD-20C	Mobil@uid® 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 Amblent	Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE [®] 15M Mobil fund [®] 424 Mobil DTE [®] 25 Mobil DTE [®] 18M	
Fiail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90. Mobil 1 Synthetic Gear Lubrican	
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 (SO 320	Mobilgrease [®] CM-S	
Drive Shaft Coupler (Rotary and Fail)	Grease Gun	Lithium Complex, NLG 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 Fiall)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease ^p CM-S	
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220	

34852

HYDRAULIC TANK



ITEM	PART NO.	QTY.	DESCRIPTION
1	50023 00776031 33997	AVAIL 1 1	MANUAL CANISTER COMPLETE ROUND MANUAL CANISTER DECAL, SHEET, MANUAL CANISTER
2		*	DECAL
3		*	DECAL
4		*	DECAL
5	*	AVAIL	SPECIFIC PRODUCT MANUAL
6	33753	1	E M I SAFETY MANUAL
7	34296	1	FRONTADHESIVEPAD
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 DRILLING 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 Tractor and Implement operation, it is the employer's responsibility to:

- 1. Train the employee in the proper and safe operation of the Tractor and Implement.
- 2. Require that the employee read and fully understand the Tractor and Implement Operator's manual.
- 3. Permit only qualified and properly trained employees to operate the Tractor and Implement.
- 4. Maintain the Tractor and Implement in a safe operational condition and maintain all shields and guards on the equipment.
- 5. Ensure the Tractor is equipped with a functional ROPS and seat belt and require that the employee operator securely fasten the safety belt and operate with the ROPS in the raised position at all times.
- 6. Forbid the employee operator to carry additional riders on the Tractor or Implement.
- 7. Provide the required tools to maintain the Tractor 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.)

ASSEMBLY SECTION

Assembly Section 2-1

ASSEMBLY

Before attempting to mount or service your Tiger mower, it is important to read and understand all of the information 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!



Use a floor jack, hoist or fork lift to lift or raise heavy parts whenever possible whether mentioned or not.

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.

TRACTOR PREPARATION

A: Remove right and left hand steps. For CAB units, unbolt the steps. For NON-CAB units, the step must be cut off and the bracket for the step be cut off flush with the bottom of the platform. See diagram on page 2-8.

B: Remove engine side panels, or raise hood to access front pulley.

C: Remove plugs from tractor casting where main frame and pump mount will be attached.

ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands and adjust tires / rims all the way out. **Follow the instructions in the tractor owners manual for adjusting tires and rims**. NOTE: This may require switching the wheels to opposite sides of tractor. Do not reinstall wheels onto tractor until valve has been mounted (cab), and all hoses have been installed.

CRANKSHAFT ADAPTER

If necessary remove the four cap-screws from the crankshaft pulley. Then install the crankshaft adapter and spacer to the pulley with cap-screws and lock-washers as shown in the parts section.

CABLE CONTROL LEVER STAND

On the corner cab post, mark a point at 1-3/8" from the windshield and 22 $\frac{1}{2}$ " from the floor; then cut a $\frac{3}{4}$ " diameter hole through the outer plastic shell. This will expose a threaded

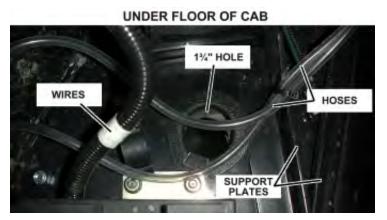
steel boss to attach the control box support bracket. The rear corner of the cable control stand is placed approximately 5 ¾" from the edge of the mat. The front edge of the stand is up against the corner cab post and the door sill lip of the mat. Before you mark or drill any holes, check for support plates or wires under the mat & the cab floor. NOTE: Cutting into plates or wires makes more work for everyone and could be dangerous. When you know where the wires/plates lie, mark one of the mounting holes. Drill a 3/8" hole through the mat and through the floor of the cab. Next, lift the mat up and mark the other two holes on the cab floor. Drill the holes through the floor. Mark the mat and drill the other two 3/8" holes. Use a 1" hole saw and cut a 1" hole through the mat

STAND PLACEMENT



EDGE OF POST / SILL

over each 3/8" hole. Secure the stand to the floor with the spacers, capscrews and nylock nuts provided.



Cut a 1 $\frac{3}{4}$ " hole in the floor to route the cables and wires through. It needs to have a $\frac{1}{4}$ " clearance for the trim lock. Before you mark or drill any holes, check for support plates or wires under the cab floor.

NOTE: Cutting into plates or wires makes more work for everyone and could be dangerous. Look under the floor for cables and plates that you need to avoid. The hole should be approximately $4\frac{1}{2}$ " from the door sill and $4\frac{3}{4}$ " from the lip of the mat under the console. Install the trim lock around the metal edges of the hole, then route the control cables and wires through the hole.



Next, wrap the cables with the 6" split hose at

the point they pass through the hole, and secure the zip-ties. Apply RTV sealer in and around individual cables and split hose, inside and outside of the cab for a water tight seal. Install upper support bracket from cab post to the control lever stand.

VALVE MOUNTING PLATE

With the right rear wheel removed, use the valve plate as a template to mark out the position for each of the three holes that will need to be drilled for mounting. The bottom two holes should be approximately $\frac{3}{4}$ " up in the lower cab support, the other will be 6 7/8" up (again marking using plate as template).

Drill the two lower holes to 3/8" and align plate with holes to double check position of the upper hole. Drill the upper hole to 3/8". After double checking holes are correct, fasten all mounting angles, hardware and the valve to the valve plate. The assembly can now be installed into the wheel well. Refer to the parts section for all parts and hardware needed.

MAIN FRAME MOUNTING

Slide the main frame under the tractor using a floor jack or hoist. For 4WD units, the pump drive shaft will need to be inserted into the hole in the main frame, and raised into position with the main frame. Be sure the drive shaft has been modified according to the instructions in "Front Pump Mounting" section. Raise main frame slowly until hole alignment is achieved. Install all hardware as shown in parts section but do not tighten. Use a thread locking agent on all capscrews and tighten according to torque chart in maintenance section. Be sure that each capscrew has a lock nut as specified in the parts section.

Y-FRAME MEMBERS

Remove the draw bar for clearance of the rear flail and tee frame. Slide the frame(s) under the tractor using floor jacks. The front of the frame needs to sit between the two angles on the front hanger frame.

Remove the lower cab or ROPS mounting plates, three point stabilizer and hardware. Retain all hardware from NON-CAB units to be reused. CAB units will use new hardware as noted in the parts section.

Raise the tee frame up to the axle. Reinstall the saved or new capscrews, lockwashers and nuts to the set of holes on the rear tee frame.

Install the four capscrews and lockwashers on the front of the Y-frame, into the threaded holes in the bottom rear of the main frame.

HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in parts section illustration. Insert tank sight glass into front side of the tank. Install the temperature sensor or pipe plug into the side of the tank.

Place the tank in the mounting bracket on the main fame with fittings toward tractor and filter toward the cab.

Secure the tank in the mounting bracket with the tank strap and nylock nuts.

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 and reducer bushing (bushing may be already installed in the tank along with many of the for-mentioned parts). These will be installed after tank is filled.

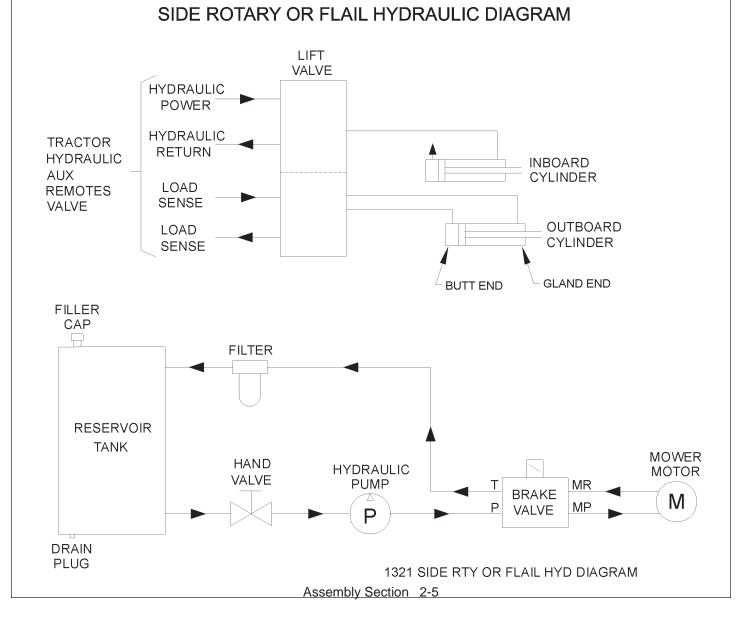
SECTIONAL VALVE MOUNTING W/CAB

Refer to the lift valve assembly for hardware and placement of all related parts including valves, cables, levers and connectors.

SECTIONAL VALVE MOUNTING WO/CAB

Refer to the lift valve assembly for hardware and location of components. First, attach control valve stand to the top of the main frame mast with cap-screws, lock-washers and hex nuts. NOTE: The mounting plate should face the rear of the tractor.

Attach the 4-spool control valve to the stand using the hardware noted in the parts section. One cap-screw must be used to secure the switch box to the under side of the valve stand.



CONTROL SWITCH MOUNTING

Refer to the parts section for wiring diagrams. Remove right side cowl panel, tach panel, and hour meter panel for access to the wires.

Route the red wire from the switch box to the bare electrical plug in the fuse box, or other un-used "keyed" hot wire. NOTE: + 12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THIS WIRE MUST BE FUSED AT THE SOURCE LOCATION.

Drill a $\frac{1}{2}$ " hole in the 9" X 5" right side panel to route the green safety switch wires, and white wire to be connected to the hydraulic solenoid valve.

The switch box is to be secured to the operators side of the control handles, or valve stand.

The green wires will connect to the neutral safety switch, located on the back of the ignition switch, under the cowl panel.

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 tread sealing tape.

Run the white wire from the (S) sensor post of the gauge to the temperature sensor on the hydraulic reservoir tank.

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.

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 with split hose sections and fasten with hose clamps or zip ties as needed.

SOLENOID VALVE MOUNTING

Install a solenoid valve to each bracket with the capscrews, star lockwasher flatwasher, lockwashers and hex nuts as shown in the parts section. Be sure that the tee fitting is pointing down. Be sure that the star and regular lockwashers are not on the same capscrew. Ground one of the red solenoid wires to one of the mounting bolts with the star lockwasher at this time.

ASSEMBLY

CONTINUOUS DUTY SOLENOID SWITCH

Mount the solenoid switch, drill holes to match, and 30 AMP breaker mounting tab, mount in dry and well protected area. Secure with 3/8" x 1" capscrews, lockwashers, and hex nuts.

A.) RED 6 GA. wire from terminal (D) to +12 volt battery post on starter solenoid.

B.) RED 14 GA. wire from terminal (C) to +12 volt terminal in fuel pump.

C.) GREEN 14 GA. wire from terminal (B) to negative ground.

D.) RED 8 GA. wire from terminal (A) to 30 AMP breker.

E.) RED 14 GA. wire from terminal (A) to double switch box.

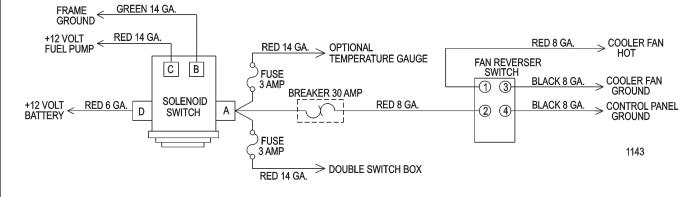
F.) RED 14 GA. wire from terminal (A) to temperature gauge. (optional)

G.) RED 8 GA. wire from breaker to reverser switch terminal (2).

H.) RED 8 GA. wire from terminal (1) to +12 volt terminal in cooler fan.

I.) BLACK 8 GA. wire from terminal (3) to ground in cooler fan.

J.) BLACK 8 GA. wire from terminal (4) to control panel ground.



FRONT PUMP MOUNTING

Install the pump mounting bracket on the front of the tractor with cap-screws and lockwashers as shown in the parts section illustration. DO NOT tighten fasteners at this time. The pump drive shaft will need to be modified as follows for a JD-5510 tractor: CAB units – cut off 5/ 8" from splined end. WOC units – cut off 1/4" from splined end. For 5500 and older tractors the length of the shaft will vary and will have to be trimmed on a per tractor basis.

Slide the pump drive shaft into the crankshaft adapter. The end with the shorter splines or threads should be inserted into the adapter (if applicable).

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 AND TANK IS FILLED WITH PROPER OIL! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP.

ASSEMBLY

INSTALLATION OF TRAVEL LOCKS & PINS

Install lock pin with chain onto back side of travel lock brackets using the hardware provided. Install the left travel lock and bracket on the mast frame as shown. Install the right travel lock and bracket as shown and include the valve stand for non-cab units.

NON CAB STEP MODIFICATION

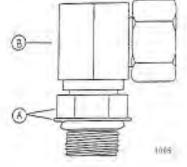
Mounting the triple mower setup on a non-cab tractor with permanent steps will require that both steps be cut off level with the bottom of the platform. For a single side mounted mower, only the step on the right side will need to be removed.

Cut the step(s) off and grind all sharp edges smooth. Seal and paint bare metal surfaces as desired to prevent rusting.



INSTALLING O-RING FITTINGS

Installing straight, 45 degree and 90 degree O-rings requires that the O-ring and washer (A) be up against the swivel body (B). Insert the swivel and turn in until the swivel is pointed in the right direction and the 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.



Assembly Section 2-8

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.

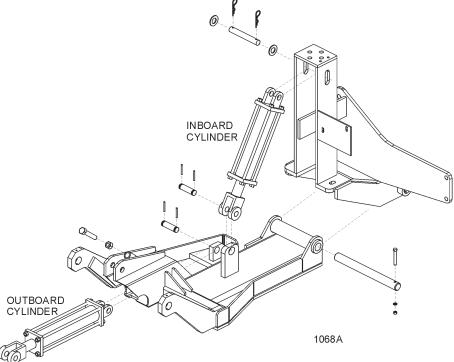
COMBO LIFT DRAFT BEAM INSTALLATION

Install ¹/₂" O-ring breather into butt port of inboard cylinder. In all fittings in the rod end of the cylinder according to diagrams in parts 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 R-clips.



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 R-clips.

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, lock-washer and hex nut.

ASSEMBLY

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.

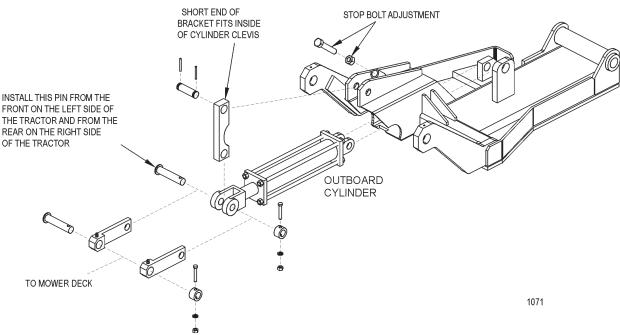


ASSEMBLY

DECK 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.



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.

DECK / MOTOR FEEDLINE

Install the 1" hose with the 180 degree flange on the front side of the motor to the top of the solenoid valve. Secure to motor with flange kit, and install swivel fittings on the other end. Install the other 1" hose with the 60 degree flange on the back side of the motor to the bottom of the solenoid valve.

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

DECK / MOTOR FEEDLINE MOUNTING (cont.)

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 and be sure teflon tape has been used at all connections.

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 ³/₄ stroke repeatedly to clear the lines of air. <u>DO NOT</u> 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 tree point hitch and check the tractor internal hydraulics, fill to proper level if needed.

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 $\frac{3}{4}$ " 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.

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 remain in good condition as a reminder to the operator, and should be replaced if damaged.

Double check that all pivot points have been greased. Secure all hoses together with zip ties and wrap with split hose sections where friction may occur on the hose.

WARNING!



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

Before operating the mower, the cutter head and draft beam 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!

ASSEMBLY

OPERATION SECTION

Operation Section 3-1

Safety is of primary importance to the owner / operator and to the manufacturer. 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. Many of the messages will be repeated throughout the manual. The owner / operator / dealer should know these Safety Messages before assembly and be aware of the hazards of operating this mower during assembly, use, and maintenance.

The **Safety Alert Symbol** combined with a signal word, as seen below, is intended to warn the owner / operator of impending hazards and the degree of injury possible during operation.

DANGER!



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

WARNING



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



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

IMPORTANT!

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)



Before any operation of tractor and mower, the user should read and understand the safety and operating instructions for both the tractor and the mower. The user should also be familiar with the location and functions of the units instruments and controls. Being familiar with the machine and it's controls will increase efficiency and reduce possibility of

serious injury or damage to the unit. The operator should work slowly and carefully until he feels comfortable with the machine. Speed and skill will be attained much easier if the necessary time is spent to familiarize yourself with the machine and its operations.

Since tractor makes and models vary, we recommend reading and following the operators manual provided by the manufacturer pertaining to your particular unit.

STARTING TRACTOR AND MOWER

Check the operators manual received from the tractor manufacturer, for their recommendation and procedures pertaining to your particular make and model.

WARNING!



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 mower is in operation.



Be sure the ball valves on the mower hydraulic tank are **OPEN** before starting the tractor. Serious damage to the hydraulic system can occur if the valves are not open.

WARNING!

Check to make sure mower switch is in the "OFF" position. The unit is designed not to start if the switch is in the "on" position. If tractor starts with switch on, turn off tractor and contact your local Tiger dealership for assistance.

Start the tractor and allow the instruments to stabilize. Without starting the mower, practice positioning the boom and deck. Remember, speed and skill will be attained easier if the necessary time is spent familiarizing yourself with the machine and its operations. When you feel comfortable at controlling the position of the mower, return the mower to the travel position, and transport the mower to the desired mowing location.

If mowing for the first time with a Tiger Boom Mower, we recommend choosing a ditch or area relatively flat with a minimum of sign posts, guard rails, etc. As always, you should inspect the area for other objects that can cause potential hazards.

The Mower Control switch turns the mower "ON" and "OFF". This switch is to be in the "OFF" position to start the tractor. The tractor will not start with the switch in the "ON" position.

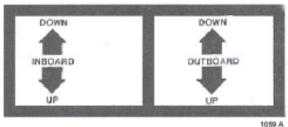
WARNING!



If tractor starts with switch on, turn off tractor and contact your local Tiger dealership for assistance.

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.



The rear mower height is controlled with the 3-point hitch control lever. Follow the instructions for this control is the tractor operators manual. The tilt of the rear mower is controlled with the third spool if the lift valve and is coordinated as shown above.

The side and rear 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 side or rear mower is to be controlled be 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 degrees Fahrenheit, stop mowers and see trouble shooting section for possible causes. Keep an eye on all gauges for indication of problems.

MOWER OPERATION



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 R.P.M. of the tractor up to 1200 and engage the side mower. If a rear mower is being used, allow the R.P.M. to return to 1200 before engaging the rear mower.

The flail mower deck should be carried so that part of the weight is carried by the ground roller. When the flail is carried this way, the roller also follows the contour of the ground more easily during mowing operations.

When cutting small shrubs or brush, 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, etc. The flail head is not intended for cutting heavy brush, or for continually cutting brush. Wear or damage of the blades will occur rapidly when the flail cutter is used this way.

To ensure a clean cut, engine speed should be maintained at approximately 1800 – 2200 R.P.M. If the tractor slows to less than 1800 R.P.M., 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 R.P.M. on the tractor tachometer.

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.

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.

TRANSPORTING MOWER

Transporting under the units own power:

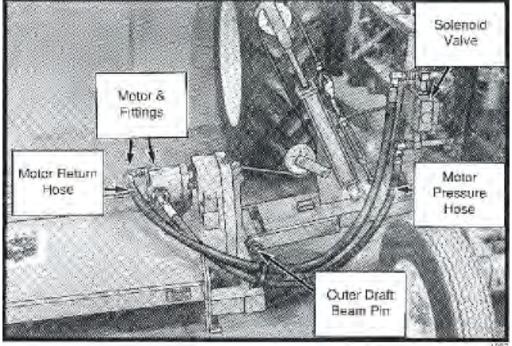
When transporting between job sites or between cutting passes, the following procedure should be followed: Shut off the power to the cutting head(s) and allow all motion to come to a complete stop. Raise the draft beam to it's highest position. Raise the side mower until the deck stops against the draft beam. 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.

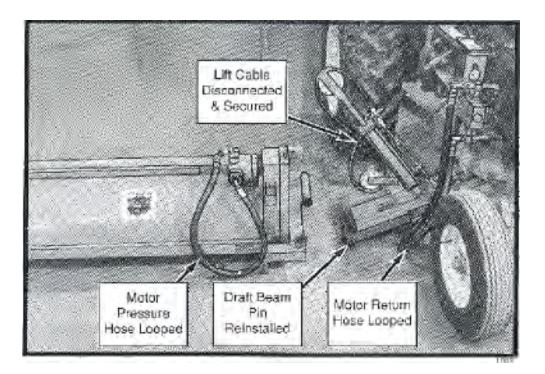
1: Transporting with side mower attached: Use a loading dock or ramp to load tractor onto the trailer. Center the tractor with the mowers attached between the sides of the trailer. Make sure the draft beam and head are fully raised and secured. Lower the rear mower onto the trailer. Secure the tractor and rear mower to the trailer with chains. Obtain proper over-width permits and mark the vehicle and mower as over-width as required be law. Check the tractor operators manual for any tractor requirements to transport by flatbed trailer.

2: 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 valve and the motor return hose at the motor. See diagram below.



Operation Section 3-6

Next, switch the hose ends and reconnect to form two separate closed loops, see diagram below. Disconnect the lift cable from the head and secure the loose end back onto the cable with the cable clevis. Remove the keeper bolt and draft beam outer pivot pin. Separate the mower head from the tractor. Now reinstall the pivot pin and keeper bolts 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 operators manual for any requirements to transport be 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 fittings.

CAUTION!

If any part of this operating section, or any other section of this manual is not completely understood, contact your Tiger dealer or the address on the cover of this manual for assistance!

INSPECTION SHEETS

Flail Mower PRE-OPERATION Inspection



Tractor ID#_____ Make_____ Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Mower head is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the Canister on the mower		
All Safety Decals are in place and legible		
The Hitch connection bolts & pins are tight		
There are no cracks in Hitch		
There mower deck is clear of cut grass and debris		
The Thrown object Guards/Deflectors are in place		
There Guards/Deflectors are in good condition		
The Driveline/Gearbox shields are in good condition		
The Driveline clutch is in good condition, not frozen		
The driveline tubes & u-joints have been lubricated		
The Driveline yoke is securely attached to the PTO		
The Gearbox oil level is full		
Blades are not broken, chipped, cracked or bent		
Blade shackles are in good condition with no cracks		
The Blade pins are properly retained		
The Skid shoes are in good condition & tight		
The Rear Roller is in good condition and turns freely		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

TRACTOR PRE-OPERATION Inspection

and all hydraulic pressure has been relieved.



Tractor ID#_____ Make_____ Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Mower head is resting on the ground (or is securely blocked up and supported)

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 ROPS 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		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

FRONT END LOADER PRE-OPERATION Inspection



Mower ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Loader is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the Canister on the mower		
All Safety Decals are in place and legible		
The Mounting frame bolts are in place and tight		
There are no cracks in Draftbeam or Yolk		
The Draftbeam/Yolk connection bolts & pins are tight		
There are no cracks or holes in mower deck		
The Hydraulic motor mounting bolts are tight		
The mower head spindle housing is tight and lubricated		
There mower deck is clear of cut grass and debris		
The Skid shoes are in good condition & tight		
Chain Guards/Deflectors are in place & in good condition		
Blade carrier retaining nut is tight		
Blades are not chipped, cracked or bent		
Blade bolts are tight		
Transport locks are in good condition		
There are no leaking or damaged hoses		
There is no evidence of Hydraulic leaks		
The Hydraulic Oil level is full		
The Hydraulic Cylinders pins are tight		
The Hydraulic Pump hose connections are tight		
The Hydraulic Valve hose connections are tight		
The Hydraulic Valve controls function properly		
Wheel lug nuts are tight		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or FRONT END LOADER

TRACTOR PRE-OPERATION Inspection



Tractor ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Loader is resting on the ground (or is securely blocked up and supported) 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 ROPS Cab is in good condition		
The Seatbelt is in place and in good condition		
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		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or FRONT END LOADER

MAINTENANCE SECTION

Maintenance Section 4-1

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 intobearings, 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 specificlubrication instructions. Do Not over-grease 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.

• <u>Release of energy from pressurized systems may cause inadvertent actuation</u> 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.

WARNING

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 pressure is relieved whenever disconnecting lines. 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, which ever 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.

Maintenance Section 4-2

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.



This symbol indicates a point that needs to be greased at an interval noted in the section below. Refer to the Detailed Maintenance section for further instructions on greasing. Copy and use the Daily Maintenance sheet located at the end of this section.

Drive Shaft Yoke, U-Joint & Stub ShaftGreasePump Drive ShaftCheck and ICrankshaft AdapterCheck rubbPivot PointsLubricateHydraulic FittingsCheck for legKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjaMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange and Shaft CouplerLubricate	play er grommets Replace grommets if damaged or missing Inject grease until it appears at ends
Pump Drive ShaftCheck and ICrankshaft AdapterCheck rubbPivot PointsLubricateHydraulic FittingsCheck for legKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	ube Insure drive shaft end play er grommets Replace grommets if damaged or missing Inject grease until it appears at ends
Crankshaft AdapterCheck rubbPivot PointsLubricateHydraulic FittingsCheck for legKnivesCheckKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	play er grommets Replace grommets if damaged or missing Inject grease until it appears at ends
Pivot PointsLubricateHydraulic FittingsCheck for legKnivesCheckKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	er grommets Replace grommets if damaged or missing Inject grease until it appears at ends
Pivot PointsLubricateHydraulic FittingsCheck for legKnivesCheckKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	damaged or missing Inject grease until it appears at ends
Hydraulic FittingsCheck for leadKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	Inject grease until it appears at ends
Hydraulic FittingsCheck for leadKnivesCheckCutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	appears at ends
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Cutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	Do Not use hands to
Cutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	check for leaks, see
Cutter shaft mounting bolts (cutter shaft to deck)CheckKnife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	maint. Precautions
(cutter shaft to deck)Knife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	Inspect for missing or
(cutter shaft to deck)Knife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	damaged knives, change
(cutter shaft to deck)Knife mounting bolts (knife to cutter shaft)CheckBeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	or sharpen as needed
(knife to cutter shaft)BeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	1/2" x 2" torque to 84 ft. lbs.
BeltsCheck / AdjuMain Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	Retorque to knife
Main Frame and DeckCheckHydraulic Fluid LevelCheckRear Flail Drive (if applicable) Bearing Flange andLubricate	replacement specifications
DeckHydraulic Fluid LevelCheckRear Flail Drive (if applicable)LubricateBearing Flange andLubricate	st Check if broken, tighten
DeckHydraulic Fluid LevelCheckRear Flail Drive (if applicable)LubricateBearing Flange andLubricate	as required
Hydraulic Fluid LevelCheckRear Flail Drive (if applicable)LubricateBearing Flange andLubricate	Retorque bolts to torque
Rear Flail Drive (if applicable) Lubricate Bearing Flange and	specifications in this sectior
Bearing Flange and	Add if required per
Bearing Flange and	fluid recommendations
Shaft Coupler	Grease as instructed in
	Grease as instructed in detailed maint. section
Cutter Shaft and Lubricate	detailed maint. section
Ground Roller	

DAILY OR EVERY 8 HOURS

WEE	KLY OR EVER	RY	50 HOURS
ITEM	SERVICE		COMMENTS
In Tank Hyd. 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
MONT	HLY OR EVEI	RY	150 HOURS
Hydraulic Fluid Level	Check		Add as needed
Hyd. Tank Breather	Clean / Check / Repl	ace	Clean or replace Element as required
Rear Tire Type 480/80R38 18.4-34 18.4-38		Ma	ax P.S.I. 29 26 26
YEAF	RLY OR EVER	Y 5	500 HOURS
Hyd. Tank Fluid	Change		
In Tank Hyd. Fluid Filter (10 micron filter)	Change		
In-Line High Pressure Filter (10 micron filter)	Change	or	Change when indicated by restriction indicator.
Hyd. Tank Breather	Change		
	TROUBLE SH	0	OTING
SYMPTOMS	CAUSE		REMEDY
Vibration	1. Loose bolts	1.	Check all bolts and tighten to torque specs. in this section.
	 Cutter assembly Unbalanced 		 Check for damaged blades, disc. or cutter shaft. Replace if needed. Check for wire, rope, etc. entangled in cutter assembly
Mower will not lift	 Hyd. Fluid low Leaks in line Faulty relief valve in Control Valve 	2.	Tighten or replace fittings and hose

SY	MPTOMS	C	CAUSE		REMEDY
Мо	wer will not start	1.	Blown fuse	1.	Check fuse between mower switch
or	run				and ignition / replace
		2.	Ball valves closed	12.	Make sure valves are open
		3.	Low oil level	3.	•
		4.	Line leak	4.	Check all fittings and lines,
					re-tighten or replace.
Oil	Temperature rises	1.	Low oil level	1.	Bring oil to proper level
abo	ove 200 deg. F	2.	Kinked or blocked	2.	Inspect, Repair, or Replace hoses
		3.	Worn pump/moto	r3.	Disable and repair
Мо	wer will not start	1.	Electronic	1a.	Without the tractor running, turn
or	run, cont.		solenoid faulty		the mower switch to on. A low
					audible click should be 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.
				1b.	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.
					Clean filter and re-install.
				1C.	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 contaminates and scratches.
Ma		4	Dalta	4	Clean parts or replace if scratched.
-	tor runs but I not cut.	1.	Belts	1.	Inspect belts and pulleys. Replace belts and repair as needed.
VVII	i not cut.	2.	Tensioner	2.	•
		۷.	TELISIONEI	۷.	washer is flush with top of guide.
Ma	tor turns slowly	1.	Contaminants	1.	
	not at all.	1.	restricting spool	1.	valve block. Remove spring, and use
51			movement in		needle nose vise grip to pull spool
			valve body.		from block. Check block and spool
			varvo body.		for contaminates and scratches.
					Clean parts or replace if scratched.
		2	Suction lines	2.	
			obstructed		suction hose
		3.	Low oil level	3.	
Pu	mp will not work	1.	Excessive wear	1.	
			on internal parts		
			Maintenance Sect	ion	4-5

suspected hydraulic prot If the solution to y	our problem cannot be	found in this section, call the
Technical Service rep this manual.	resentative at the num	per shown on the front cover of

TORQUE SPECIFICATIONS **Torque for Standard Fasteners** \bigcirc Nominal hreads Grade 5 Grade 8 Grade 2 Grade 9 Dia. per Tightening Torque Tightening Torque Tightening Torque Tightening Torque inch Lubed Dry Plated Dry Plated</ (in.) Unified Coarse Thread Series 18 16 1/4 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 143 in-lbs 143 in-lbs 168 in-lbs 5/16 33 ft-lbs 37 ft-lbs 43 ft-lbs 51 ft-lbs 3/8 15 ft-lbs 18 ft-lbs 20 ft-lbs 23 ft-lbs 31 ft-lbs 44 ft-lbs 38 ft-lbs 26 ft-lbs 7/16 125 37 1/2 9/16 5/8 3/4 7/8 500 375 1 1/8 3706 1 1/4 1 1/2 Fine Thread Series 1/4 24 24 20 20 56 in-lbs 68 in-lbs 75 in-lbs 87 in-lbs 99 in-lbs 116 in-lbs 123 in-lbs 139 in-lbs 164 in-lbs 144 in-lbs 163 in-lbs 192 in-lbs 5/16 3/8 7/16 35 ft-lbs 37 ft-lbs 42 ft-lbs 49 ft-lbs 43 ft-lbs 49 ft-lbs 17 ft-lbs 20 ft-lbs 23 ft-lbs 26 ft-lbs 30 ft-lbs 58 ft-lbs 120 1/2

1 1/2 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

355

403

170

9/16

5/8

3/4

7/8

1 1/8

1 1/4

K = 0.17 for zinc plated and dry conditions K = 0.20 for plain and dry conditions

D = Nominal Diameter F = Clamp Load

281

369

			Class 4.6			Class 8.8			Class 10.9	9	Clas	s 12.9
			4.6			8.8	\diamond		10.9	\rangle		12.9
Nominal	Pitch	Tig	htening To	rque	Tig	htening Tor	que	Tightening Torque		Tightening Torque		
			Dry Plated		Lubed	Dry Plated			Dry Plated		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
					ad for spe	cified bolts.	K = 0.15 f	or "lubric:	ated" cond	itions	D = Nomir	hal Diamete
All torqu	e value	es are list	ed in foot-	pounds	All torque values are listed in foot-pounds				ated, dry c	onditions	F = Clamp	Load

* These are intended to be general specifications. See tractor operators or service manual for exact specifications for your unit.

Maintenance Section 4-7

LUBRICATION RECOMMENDATIONS

Description	Application	General Specification	Recomended Mobil Lubricant	
Tractor Hydraulics	Reservoir	JD-20C MF M1135,M1141 FNHM2C134D (FNH201)	Mobilfluid 424	
Mower Hydraulics	Reservoir			
Cold Temperatures 0 F Start-Up Normal Temperatures 10 F Start-Up		ISO 46 Anti-Wear - Low Temp JD-20C MF M1135,M1141 FNH M2C134D (FNH201)	Mobil DTE 15M Mobilfluid 424	
Normal Temperatures 15 F Start-Up		ISO 46 Anti-Wear	Mobil DTE 25	
High Operating Temp. Above 90 F		ISO 100 Anti-Wear	Mobil DTE 18M	
Flail Rear Gearbox	Grease	PAO Synthetic Extreme	Mobil SHC 75W-90	
		Pressure Gear Lube	Mobil 1 Synthetic Gear	
Cutter Shaft & Ground	Grease	Lithium-Complex	Mobilgrease CM-S	
Roller Shaft (Flail)	Gun	Extreme Pressure		
		NLGI 2 - ISO 320		
Drive Shaft Coupler	Grease	Lithium-Complex	Mobilgrease CM-S	
(Flail and Rotary)	Gun	Extreme Pressure	-	
		NLG12 - ISO 320		
Drive Shaft Yoke, U-Joint & Stub Shaft	Grease	Lithium-Complex	Mobilgrease CM-S	
	Gun	Extreme Pressure		
		NLGI2 - ISO 320		
Boom Swivel	Grease	Lithium-Complex	Mobilgrease CM-S	
Boom Cylinder Pivots	Gun	Extreme pressure		
(Rotary & Flail Boom)		NLGI2 - ISO 320		
Deck Boom Pivot &	Grease	Lithium-Complex	Mobilgrease CM-S	
Deck Stop Adjustment	Gun	Extreme pressure		
(Rotary & Flail)		NLGI 2 - ISO 320		
Deck Spindle (Rotary)	Grease	Tiger Spindle Lubricant	Mobilith SHC 220	
	Gun	part number 06540000		

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 S Windex ¹ Fantastik ³	oaps and Detergents Top Job² Formula 409⁴	Joy ² Sumalight D12	Mr. Clean ² Brucodecid
•	Organic Solvents Butyl Cellosolve Neleco-Placer	Kerosene Turco 5042	Hexel, F.O. 554	Naphtha (VM&P grade)
•	Alcohols Methanol	lsopropyl		

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

GRAFFITI REMOVAL

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

To remove labels, stickers, etc., the use of kerosene or 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.

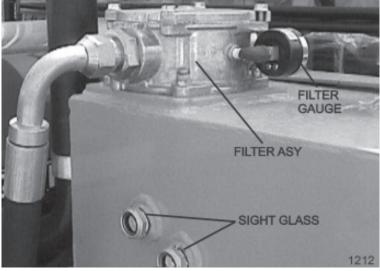
IMPORTANT: If a material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be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

RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

When filling or checking the oil level, the unit should be parked on a level

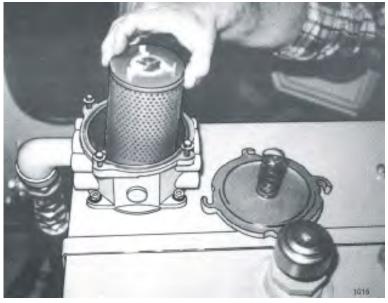
surface, shut "**OFF**", and allowed sufficient time to cool to ambient temperature. Use caution when removing the pressurized breather. Do not place face over opening when removing the breather.

The reservior should be filled to the top of the lower sight glass on the side of the tank. Do not over-fill. The reservior 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.



DETAILED MAINTENANCE REPLACEING 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.

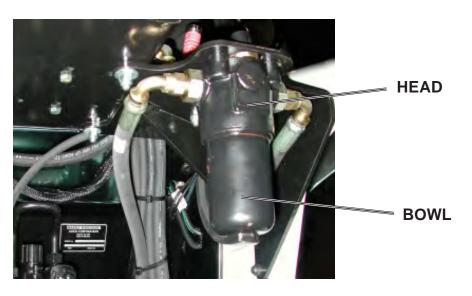


Maintenance Section 4-10

DETAILED MAINTENANCE

REPLACEING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

Assure system has been shut down and de-pressurized. 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 that matches the hex pattern. Using the 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 seam 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 with in 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 "tighten" the bowl into the head, using the spanner wrench -orratchet, the rotation of the bowl will become tighter once the o-ring engages the sealing flats. Once the bowl has been fully inserted into the head, and the o-ring has reached the sealing flats, the bowl can no longer be "tightened" and bottoms out. 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 reassembly 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.



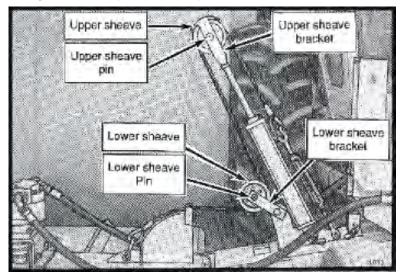
Maintenance Section 4-11

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.

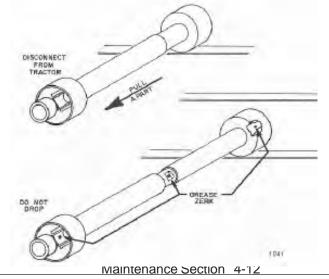
GREASING THE UPPER AND LOWER SHEAVES

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.



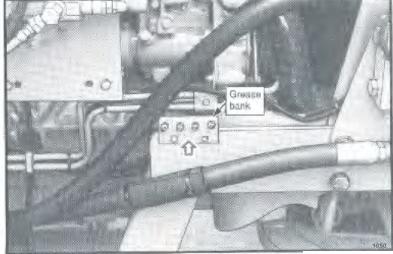
GREASING P.T.O. SHAFTS

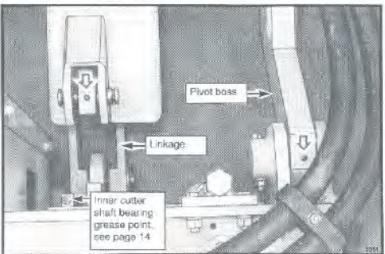
After bringing the tractor to a complete stop, shut off the engine and remove the P.T.O. shaft from the tractor. Slide the shaft apart to expose the grease zerk. Grease the shaft with 5 pumps of grease and the U-joints until grease protrudes from caps per the scheduled interval in the maintenance section.

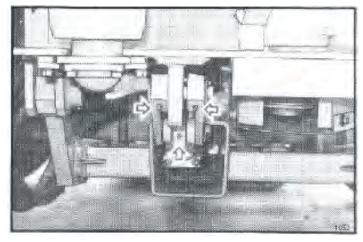


GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

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





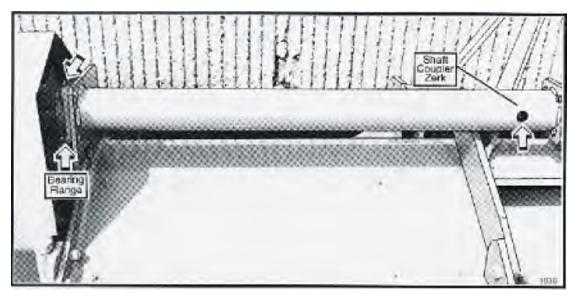


With the cutter head lowered, locate the grease zerks on the linkage and pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until it protrudes from the ends. With the cutter head in this position it is also possible to grease the draft beam cylinder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

Maintenance Section 4-13

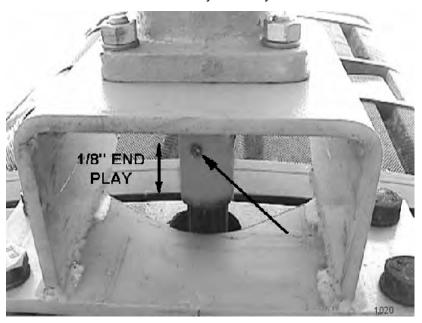
GREASING THE REAR DRIVE BEARING AND EXTENSION COUPLER SHAFT

Locate the grease zerks for the rear flail drive extension shaft. Make sure the zerks are clean before injecting grease. One pump of grease into flange zerk and shaft coupler once every day or for every 8 hours of service.



GREASING PUMP DRIVE SHAFT COUPLER

With engine stopped, ensure drive shaft alignment by grasping coupler and sliding back and forth. Coupler should slide 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.



Maintenance Section 4-14

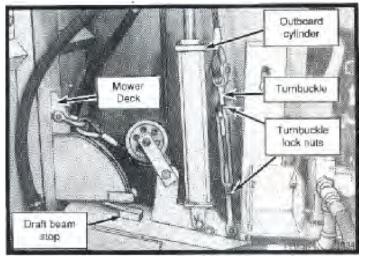
DRIVE SHAFT YOKE, U-JOINT & STUB SHAFT

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



ADJUSTING THE CABLE LIFT

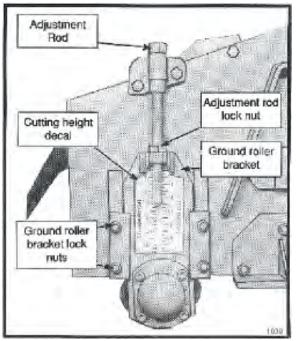
Extend the outboard cylinder until the mower deck touches its stop on the draft beam as shown. NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop. Now hold the head against the stop and tighten the turnbuckle until the cable 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.



Maintenance Section 4-15

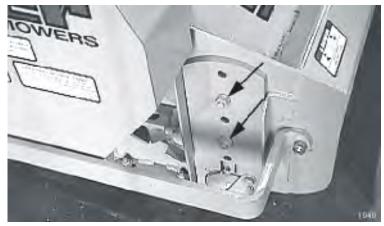
ADJUSTING THE CUTTING HEIGHT

Loosen the four ground roller bracket lock nuts. Loosen the adjustment rod lock nut and turn the adjustment rod to adjust the cutting height. The cutting height is indicated by the end of the adjustment rod on the cutting height decal. When cutting height has been achieved, tighten the ground roller bracket lock nuts and the adjustment rod lock nut securely. Be sure both sides of the flail are adjusted the same.



ADJUSTING STANDARD DUTY CUT HEIGHT

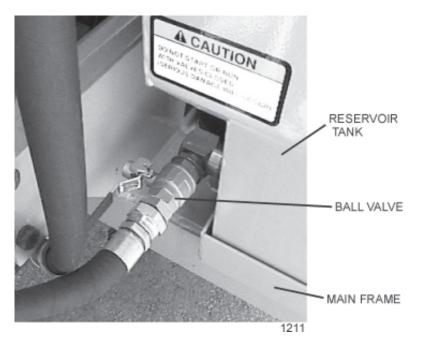
To adjust the cutting height of the standard duty flail head the two nuts on the roller shaft brackets must be taken off and moved to the desired location / height. See diagram below. Be sure that both sides of the shaft are adjusted to corresponding holes so the shaft remains level.



Maintenance Section 4-16

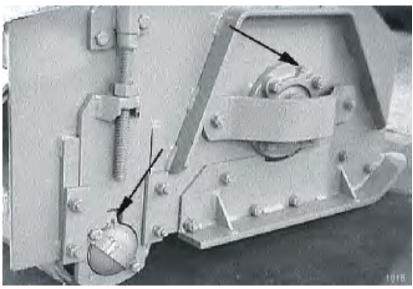
BALL VALVES

The ball valve 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 PUMP IS COUPLED TO MOTOR OR P.T.O. ! Failure to do so may result in component failure!



GREASING CUTTER SHAFT – FLAIL MOWERS

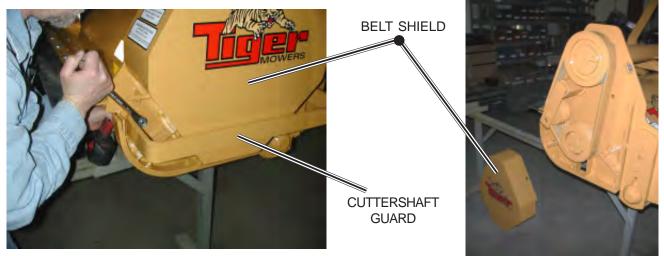
Locate grease zerks on each end of cutter shaft(s), these are located on the bearing cover. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at **8 hour intervals**. **CAUTION: Over greasing may cause premature seal failure**.



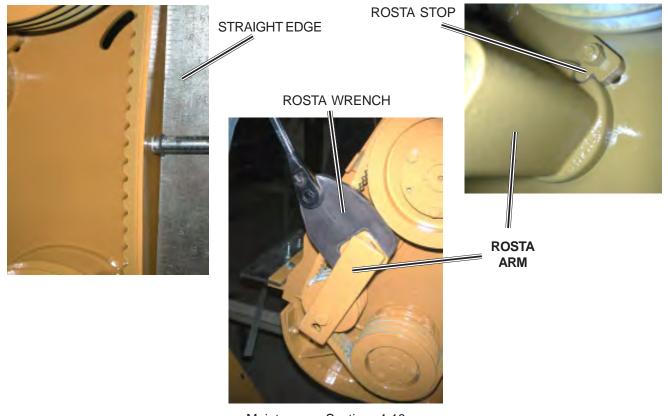
Maintenance Section 4-17

ROSTA TENSIONER

Remove the cuttershaft guard over the belt shield. Then remove the belt shield that covers the tensioner, belt and sheaves.



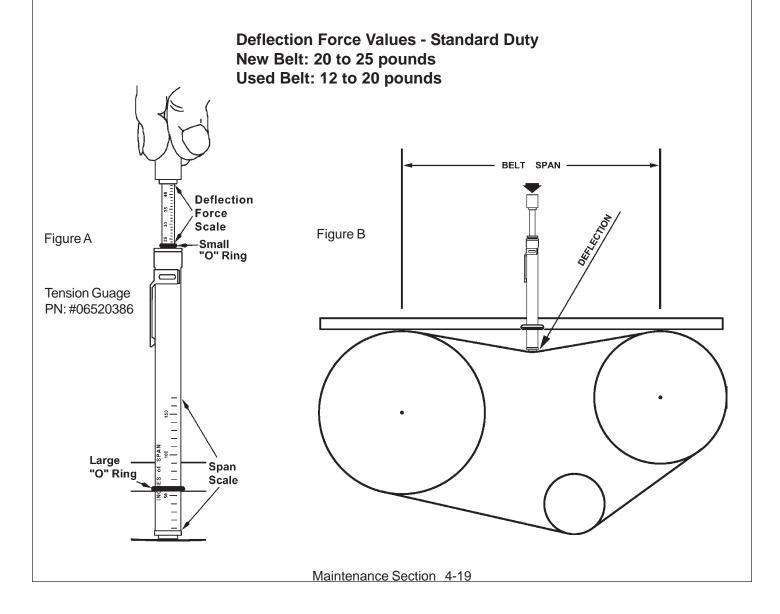
Place a straight edge over both sheaves and measure the belt tension(See TENSIONER MEASUREMENT PROCEDURE). To adjust the Rosta Tensioner, first, loosen the Rosta Stop and Rosta bolt that secures the Rosta to the flail. Next use the Wrench (PN# 06401023 available) to adjust the tension of the belt. After the tension has been set, secure the Rosta Stop and re-torque the Rosta Bolt to specs.



Maintenance Section 4-18

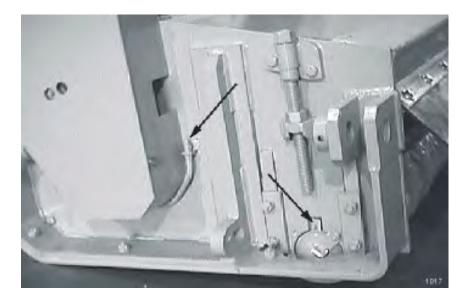
TENSIONER MEASUREMENT PROCEDURE

- 1. Measure the Belt Span (SEE SKETCH).
- 2. Position the bottom of the Large "O" Ring on the Span Scale at the measured Belt Span.
- 3. Set the Small "O" Ring on the Deflection Force Scale to zero.
- 4. Place the tension gauge squarely on the belt at the center of the belt span. Apply a force on the plunger perpendicular to the belt span until the bottom of the Large "O" Ring is even with the bottom of a straight edge laid across the sheaves.
- 5. Remove the tension gauge and read the force applied from the bottom of the Small "O" Ring on the Deflection Force Scale.
- 6. Compare the force denoted by the Small "O" Ring with the values shown. The force should be between the values given for either a New Belt or Used Belt.
- 7. Make sure to use the force values in pounds if the span is measured in inches. Use kilograms of force if the span is measured in centimeters.
- 8. NOTE: The ratio of the deflection to belt span is 1/64 in either units of measurements.



GREASING GROUND ROLLER SHAFT – FLAIL

Locate grease zerks on each end of roller tube at lower rear of head. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at **8 hour intervals**. **CAUTION: Over greasing may cause premature seal failure.**

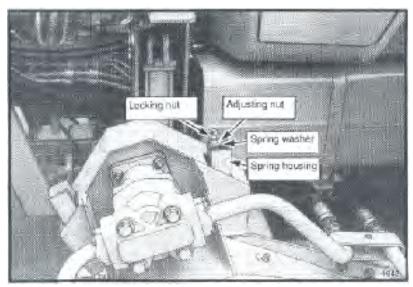


GREASING THE IDLER TENSION ARMS

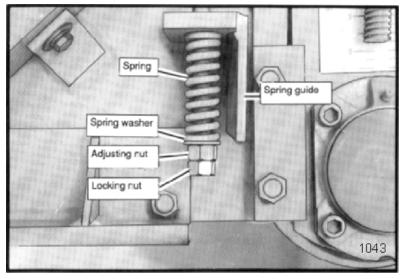
Locate the access holes and grease zerks in the belt shields of the side and rear flails. Normal conditions require one pump daily or every 8 hours of service with multi purpose grease.

IDLER TENSIONING

Locate the idler tensioning rod for each flail. Loosen the locking nut. Turn the adjusting nut until the washer in between the spring and nuts is flush with the spring housing or guide. Tighten locking nut securely. For standard cut on side flail adjust until the spring washer is flush with the top of the spring housing, as shown below. Use this same method to adjust hydraulically driven rear flails.



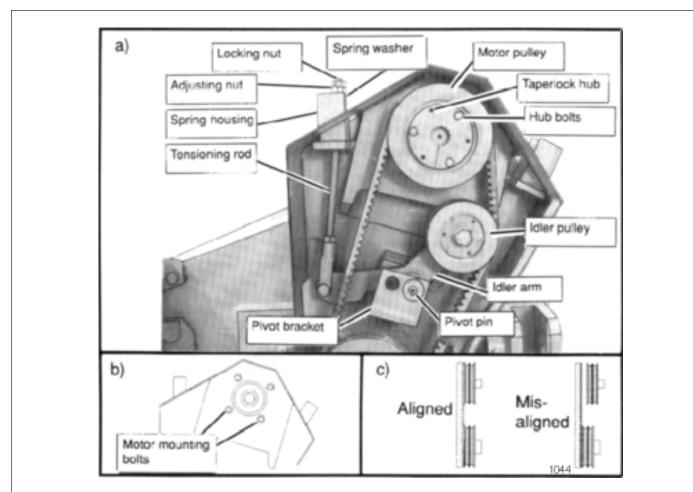
For standard cut on the mechanically driven rear flail mower, adjust so that the spring washer is flush with the spring guide as shown below.



REVERSING MOWER ROTATION OF SIDE AND REAR FLAIL MOWERS

To reverse the rotation of the side and hydraulically driven rear flail, a different idler arm is needed only for side flail. Part No. TF4346 is used in standard rotation. Part No. TF4345 is used in reverse rotation.

When before attempting this procedure be sure all dirt is cleaned away from the motor and around all hose connections. This is to prevent the oil from becoming contaminated. 1-Start by removing the belt shield from the flail mower. 2-Remove the locking and adjusting nut, spring washer and spring from the idler tensioning rod. 3-Disconnect the tensioning rod from the idler arm. 4-Remove the idler arm with the idler pulley attached. 5-Remove the idler pulley from the idler arm and reinstall on the short end of the new idler arm.



Reinstall the idler arm and pivot pin. The pivot pin is installed into the hole in the pivot bracket closest to the idler pulley. When assembling for **standard** cut rotation, the idler arm is installed with the idler pulley toward the front of the mower with the pivot pin in the front hole. When assembling for **reverse** rotation, with smooth cut knives, the idler arm is installed with the idler pulley toward the rear of the mower with the pivot pin in the rear hole.

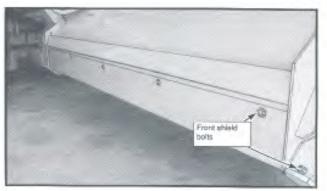
Now disconnect the hoses and fittings from the motor and remove the taper-lock hub and pulley from the motor by removing the three hub bolts from the existing positions and inserting simultaneously into the threaded holes. Remove the four bolts holding the motor. Rotate the motor 180° so the hump is opposite the prior position. Reinstall the motor bolts and torque to 75 ft. lbs. Reconnect the hoses and fittings to the motor in the same configuration as before, i.e. the hose that was connected to the front port on the motor should now be connected to the port that is now facing the front.

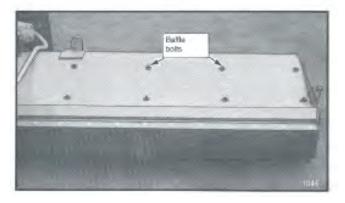
Reinstall the taper-lock hub and pulley on the motor by installing the hub bolts in the original holes and tightening until the hub just contacts the pulley. Then, position the pulley on the motor shaft approximately 3/16" beyond the idler pulley and tighten and torque the hub bolts to 18 ft. lbs. Be sure the pulleys are vertically aligned when tight (see diagram on previous page), loosen and readjust if needed.

Reinstall the belts and idler tensioning rod. Tighten and lock the tensioning rod as shown previously in the maintenance section. Reinstall the belt shield.

With the motor rotation changed, now all of he knives on the cutter shaft must be changed as required. The cutter shaft rotates in the same direction as the tractor tires when going forward for standard cut knives. The shaft rotates opposite to standard rotation for smooth cut knives. Smooth cut knives should be installed so the cutting edge is forward.

When operating in standard rotation, the front shield must be removed and the baffle installed. When operating in reverse rotation, remove the baffle and install the front shield. Finally, reposition the wear pads on the hoses and replace the zip ties as needed to prevent the hydraulic hoses from rubbing or chafing.





REVERSING MOWER ROTATION REAR MECHANICAL DRIVEN FLAIL MOWERS

Remove the rear shaft guard and disconnect the chain coupling to the shaft. Disconnect the P.T.O. drive shaft from the right angle gear box. Remove the gear box from the flail frame and lay down flat so that gear oil does not leak out.

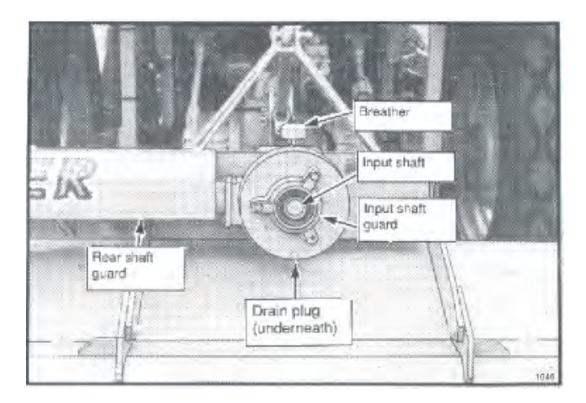
Switch the top breather vent plug with the drain plug on the bottom. Remove the input shaft guard. The input shaft must be pressed through or turned around so the rear extension is equal to what the original front dimension was. Turn the gear box 180° and install on the flail frame so the chain coupling sprockets are side be side and the breather vent plug is on the top of the case.

(continued on next page)

Maintenance Section 4-23

The sprockets must be aligned and spaced approximately 3/8" apart. When changing from standard cut to smooth cut rotation, a spacer plate may have to be installed between the gear box and the frame. When changing from smooth cut to standard cut rotation the spacer plate is to be omitted. Install the chain for the chain coupling. If there is any binding, or no free movement in the chain, the bearing next to the coupler may be shimmed as required to eliminate the chain binding.

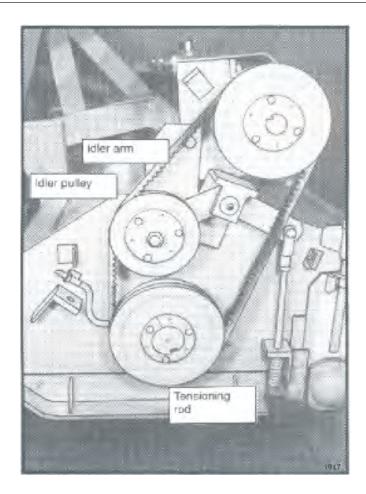
Change all the knives on the cutter shaft as required. The cutter shaft rotates in the same direction as the tractor tires when going forward for standard knives. The cutter shaft rotates opposite the tractor tires for smooth cut knives.



Remove the belt shield. Then remove the adjusting nuts, washer and spring from the idler tensioning rod. Remove the clevis rod and small bushing from the idler arm. Remove the idler arm with the pulley attached. Remove the idler pulley from the idler arm and install the pulley on the other end of the idler arm. Reinstall the idler arm in the pivot bracket. For standard cut rotation the pulley is toward the front, for reverse rotation with smooth knives, the idler pulley is toward the rear. Install the small bushing in the idler arm and connect the idler tensioning rod.

Tighten the adjusting nuts for the idler arm tensioner as shown previously in the maintenance section. Install the belt shield, the shaft guard and P.T.O. shaft guards.

When operating the mower in reverse rotation with smooth cut knives, remove the baffle and install the front shield. When operating the mower in standard rotation with standard cut knives, remove the front shield and install the baffle. Maintenance Section 4-24



50" BOOM FLAIL KNIFE REPLACEMENT

1 – If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower. The knife should <u>not</u> be welded on for any reason.

2 - Always replace the knife bolts when replacing the knives. **DO NOT REUSE THE KNIFE BOLTS OR NUTS.**

- 3 Assemble knives, bushings, bolts and nuts as shown in part section of the manual.
- 4 Install the locking hex nut so that the flat face of the nut is towards the knife.
- 4 apply loctite "271" or equivalent to threads.

5 – Torque nut to 50 ft lbs. Knife must swing freely.

WARNING!



DO NOT re-use the locking hex nuts for mounting the knives. If hex nut become loose, or require removal for knife replacement or any other reason, they must be discarded and replaced with new nuts.

63" BOOM FLAIL KNIFE REPLACEMENT

1 – If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower.

2 – Assemble knives, clevis, bolts and nuts as shown in part section of manual.

3 – Install locking hex nut so that the flat face of nut is towards the knife.

4 – apply loctite "271" or equivalent to threads.

5 - Torque nut to 35 FT. LBS. Knife must swing freely.

WARNING!



DO NOT re-use the locking hex nuts for mounting the knives. If hex nut become loose, or require removal for knife replacement or any other reason, they must be discarded and replaced with new nuts.

WARNING!



Knives should <u>not</u> be welded on for any reason.

STANDARD OR HEAVY DUTY SIDE OR REAR FLAIL KNIFE REPLACEMENT

1 – If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower.

2 – Assemble knives, bushings, collars, bolts and nuts as shown in part section of manual.

3 – Install locking hex nut so that the flat face of nut is towards the knife.

4 – apply loctite "271" or equivalent to threads.

5 – Torque nut to 35 FT. LBS. Knife must swing freely.



DO NOT re-use the locking hex nuts for mounting the knives. If hex nut become loose, or require removal for knife replacement or any other reason, they must be discarded and replaced with new nuts.



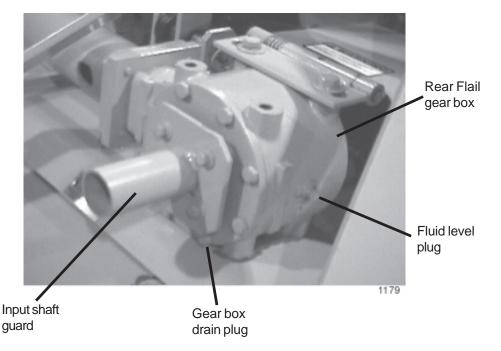
Knives should <u>not</u> be welded on for any reason.

RECOMMENDED FILLING INSTRUCTIONS FOR REAR FLAIL GEAR BOX

When filling or checking the fluid level, the unit should be parked on a level surface with rear flail down on surface, shut "**OFF**", and cold, (at ambient temperature).

Remove the fluid level plug located on the side of the gear box. The gear box should be filled to the bottom of the fluid level hole. If nessecary, use 75 - 90 wt. PAO Synthetic Extreme Pressure Gear Lube to raise level to bottom of the hole.

Do not over-fill. excessive gear oil will run back out of the hole. Reinstall fluid level plug into gear box. If gear box has been over-filled, the excess may be expelled through the pressurized breather.



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 drive shaft / coupler and lubricate at zerks.
Crankshaft adapter: If equipped with rubber grommets check condition, replace if missing or damaged.
Pivot points: Inject grease until it appears at ends.
Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or replace hoses immediately.
Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.
Belts: Check / Tighten / Replace belts as needed.
Main Frame / Deck: Unless otherwise specified retorque bolts according to torque specifications in this section.
Hydraulic Fluid Level: Add, if required, per fluid recommendations.
Rear Flail Drive, Bearing Flange and Shaft Couplers: Grease as instructed in the detailed (if applicable) maintenance section.
Cutter Shaft and Ground Roller: Grease as instructed in the detailed maintenance section
Service performed by: Date:// Hour Meter:
Maintenance Section ** This page may be copied and used as part of the daily maintenance routine.

JD 5500 - 5510 - SIDE FLAIL, CAB, WOC

PARTS SECTION

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.

1. 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:

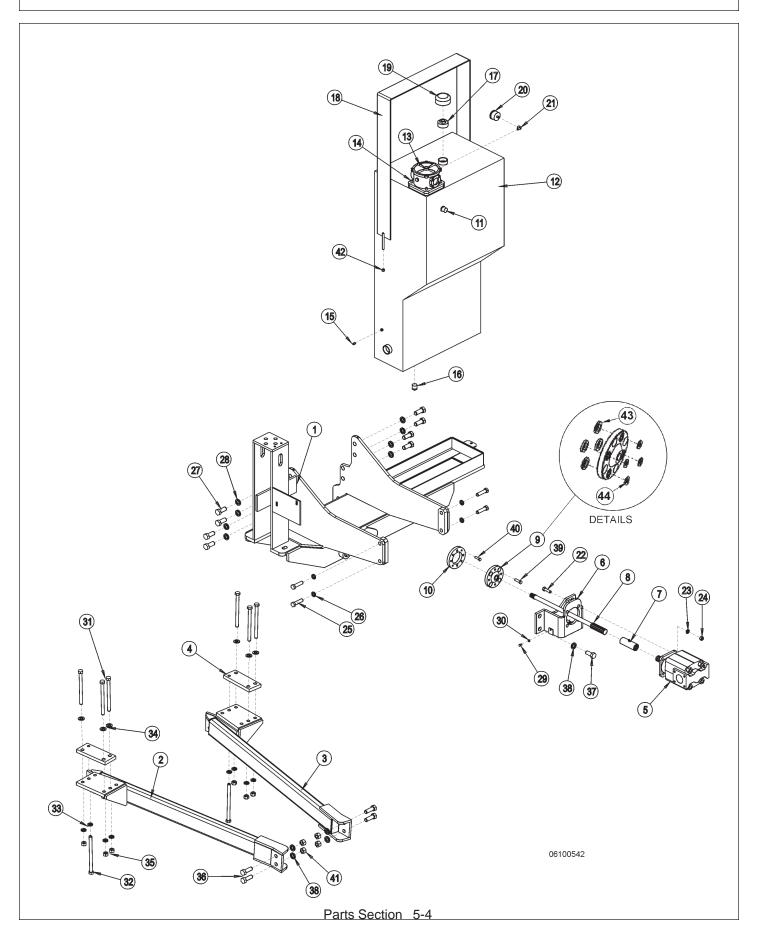
Tiger Corporation

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

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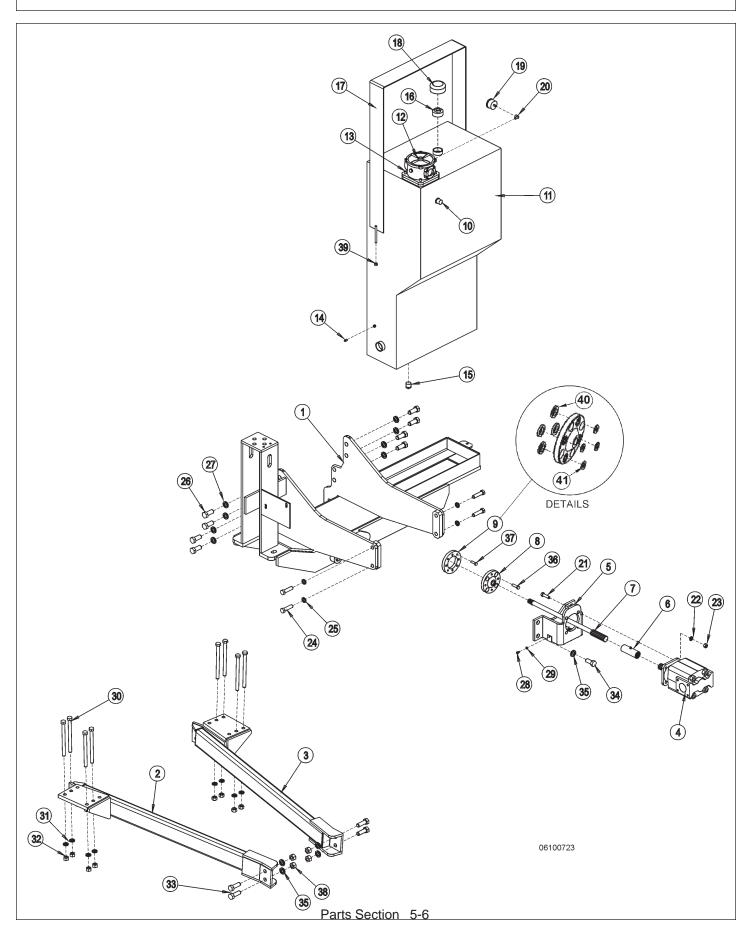
TRACTOR MOUNT KIT - MAIN FRAME, CAB, 5500



TRACTOR MOUNT KIT - MAIN FRAME, CAB, 5500

ITEM	PARTNO.	QTY.	DESCRIPTION
1	32065	1	MAIN FRAME
2	32077	1	AXLE BRACE - RIGHT HAND
3	32078	1	AXLE BRACE - LEFT HAND
4	31940	2	AXLE PLATE
5	23152	1	HYDRAULIC PUMP
6	31911	1	PUMP MOUNTING BRACKET
7	6T0375B	1	DRIVE SHAFT COUPLER
8	6T0339	1	PUMP DRIVE SHAFT
9	6T0389	1	CRANKSHAFTADAPTER
10	41010	1	CRANKSHAFT SPACER
11	6T1209	2	TANK SIGHT GLASS
	28061	AVAIL.	HYDRAULIC RESERVOIR ASSY.
12	6T1219D	1	RESERVOIR TANK
13	6T0640	1	FILTER ASSY.
14	21627	4	NYLOCK NUT
15	6T4197	1	PIPE PLUG
16	6T4200	1	PIPE PLUG
17	33700	1	REDUCER BUSHING
18	6T1279B	1	TANK STRAP
19	31004	1	TANK BREATHER
20	6T0649	1	FILTER GAUGE
21	TF4888	1	STREET ELBOW
22	21732	4	CAPSCREW - 1/2" X 1 3/4"
23	21990	4	LOCKWASHER - 1/2"
24	21725	4	HEX NUT - 1/2"
25	6T2530	4	CAPSCREW - 16MM X 65MM
26	6T2625	4	LOCKWASHER - 16MM
27	31731	8	CAPSCREW - 20MM X 50MM
28	24881	8	LOCKWASHER - 20MM
29	21528	1	CAPSCREW - 1/4" X 1/2"
30	21986	1	LOCKWASHER - 1/4"
31	21797	6	CAPSCREW - 5/8" X 9"
32	21796	2	CAPSCREW - 5/8" X 8"
33	21992	8	LOCKWASHER - 5/8"
34	22020	6	FLATWASHER - 5/8"
35	21775	6	HEX NUT - 5/8"
36	21833	4	CAPSCREW - 3/4" X 2 1/4"
37	21831	4	CAPSCREW - 3/4" X 1 3/4"
38	21993 CT22C0	8	
39	6T2260	4	CAPSCREW - 7/16" X 1 1/2" CUT
40 41	21631 21825	4	CAPSCREW - 3/8" X 1 1/4"
41 42	21627	4 2	HEX NUT - 3/4" NYLOCK NUT - 3/8"
42 43		2 4	
43 44	06537004 24937	4	WASHER,NEOPRENE,.75x1.25x.19 FLAT WASHER
44	24301	4	

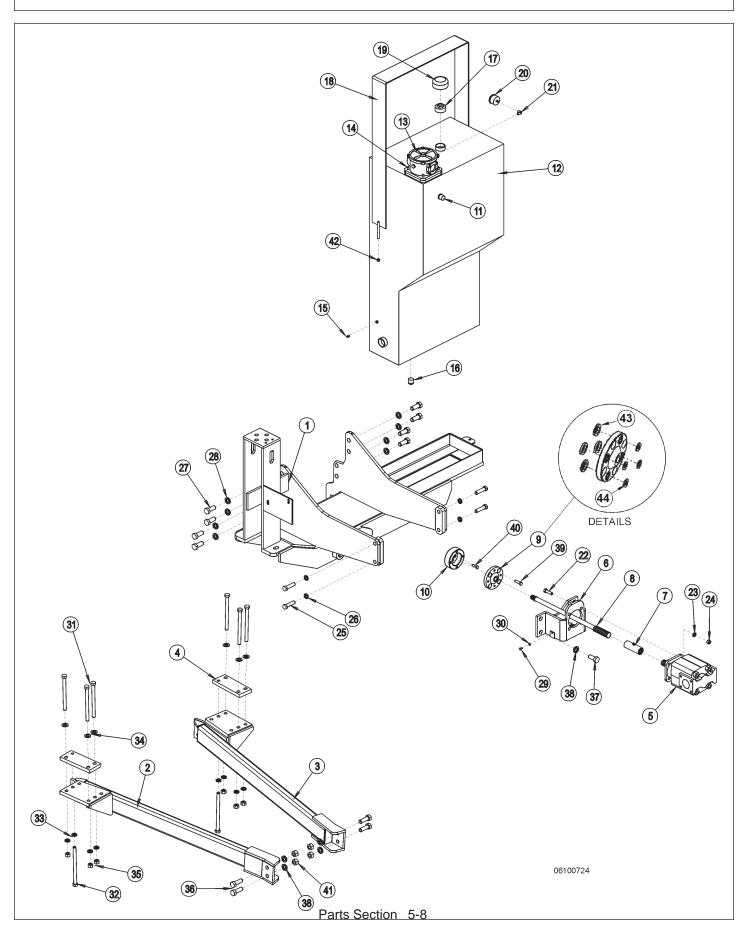
TRACTOR MOUNT KIT - MAIN FRAME, WOC, 5500



TRACTOR MOUNT KIT - MAIN FRAME, WOC, 5500

ITEM	PARTNO.	QTY.	DESCRIPTION
1	32065	1	MAIN FRAME
2	32077	1	AXLE BRACE - RIGHT HAND
3	32078	1	AXLE BRACE - LEFT HAND
4	23152	1	HYDRAULIC PUMP
5	31911	1	PUMP MOUNTING BRACKET
6	6T0375B	1	DRIVE SHAFT COUPLER
7	6T0339	1	PUMP DRIVE SHAFT
8	6T0389	1	CRANKSHAFTADAPTER
9	41010	1	CRANKSHAFT SPACER
10	6T1209	2	TANK SIGHT GLASS
	28061	AVAIL.	HYDRAULIC RESERVOIR ASSY.
11	6T1219D	1	RESERVOIR TANK
12	6T0640	1	FILTER ASSY.
13	21627	4	NYLOCK NUT
14	6T4197	1	PIPE PLUG
15	6T4200	1	PIPE PLUG
16	33700	1	REDUCER BUSHING
17	6T1279B	1	TANK STRAP
18	31004	1	BREATHER
19	6T0649	1	FILTER GAUGE
20	TF4888	1	STREET ELBOW
21	21732	4	CAPSCREW - 1/2" X 1 3/4"
22	21990	4	LOCKWASHER - 1/2"
23	21725	4	HEX NUT - 1/2"
24	6T2530	4	CAPSCREW - 16MM X 65MM
25	6T2625	4	LOCKWASHER - 16MM
26	31731	8	CAPSCREW - 20MM X 50MM
27	24881	8	LOCKWASHER - 20MM
28	21528	1	CAPSCREW - 1/4" X 1/2"
29	21986	1	LOCKWASHER - 1/4"
30	21797	8	CAPSCREW - 5/8" X 9"
31	21992	8	LOCKWASHER - 5/8"
32	21775	8	HEX NUT - 5/8"
33	21833	4	CAPSCREW - 3/4" X 2 1/4"
34	21831	4	CAPSCREW - 3/4" X 1 3/4"
35	21993	8	LOCKWASHER - 3/4"
36	6T2260	4	CAPSCREW - 7/16" X 1 1/2" CUT
37	21631	4	CAPSCREW - 3/8" X 1 1/4"
38	21825	4	HEX NUT - 3/4"
39	21627	2	
40	06537004	4	WASHER, NEOPRENE, .75x1.25x.19
41	24937	4	FLAT WASHER

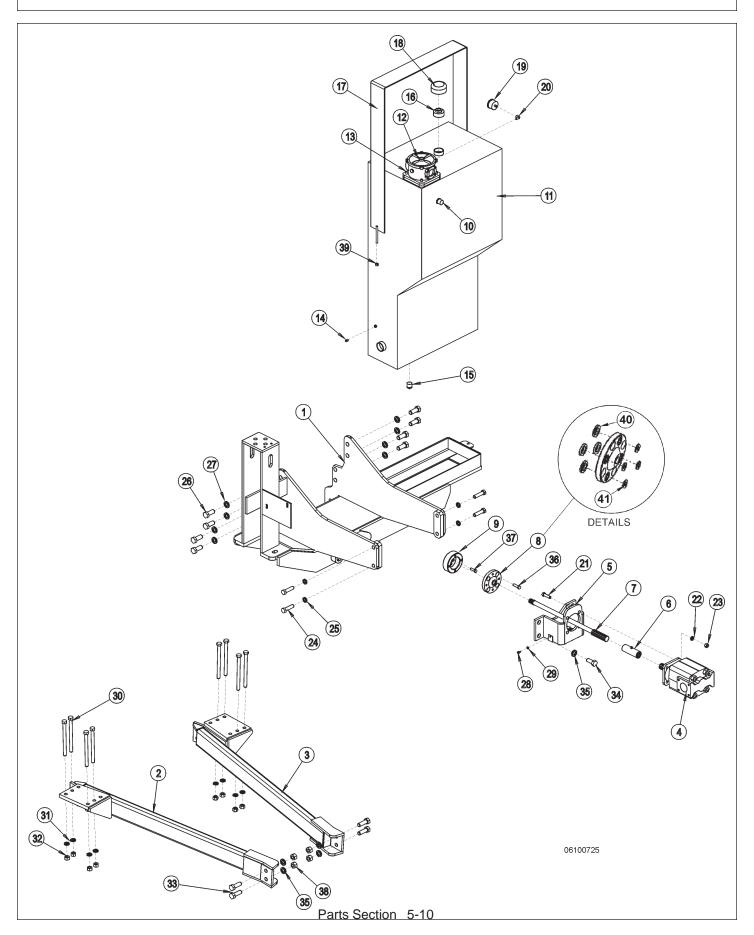
TRACTOR MOUNT KIT - MAIN FRAME, CAB, 5510



TRACTOR MOUNT KIT - MAIN FRAME, CAB, 5510

ITEM	PART NO.	QTY.	DESCRIPTION
1	32065	1	MAIN FRAME
2	32077	1	AXLE BRACE - RIGHT HAND
3	32078	1	AXLE BRACE - LEFT HAND
4	31940	2	AXLE PLATE
5	23152	1	HYDRAULIC PUMP
6	31911	1	PUMP MOUNTING BRACKET
7	6T0375B	1	DRIVE SHAFT COUPLER
8	6T0339	1	PUMP DRIVE SHAFT
9	6T0389	1	CRANKSHAFTADAPTER
10	32583	1	CRANKSHAFT SPACER
11	6T1209	2	TANK SIGHT GLASS
	28061	AVAIL.	HYDRAULIC RESERVOIR ASSY.
12	6T1219D	1	RESERVOIR TANK
13	6T0640	1	FILTER ASSY.
14	21627	4	NYLOCKNUT
15	6T4197	1	PIPE PLUG
16	6T4200	1	PIPE PLUG
17	33700	1	REDUCER BUSHING
18	6T1279B	1	TANK STRAP
19	31004	1	TANK BREATHER
20	6T0649	1	FILTER GAUGE
21	TF4888	1	STREET ELBOW
22	21732	4	CAPSCREW - 1/2" X 1 3/4"
23	21990	4	LOCKWASHER - 1/2"
24	21725	4	HEX NUT - 1/2"
25	6T2530	4	CAPSCREW - 16MM X 65MM
26	6T2625	4	LOCKWASHER - 16MM
27	31731	8	CAPSCREW - 20MM X 50MM
28	24881	8	LOCKWASHER - 20MM
29	21528	1	CAPSCREW - 1/4" X 1/2"
30	21986	1	LOCKWASHER - 1/4"
31	21797	6	CAPSCREW - 5/8" X 9"
32	21796	2	CAPSCREW - 5/8" X 8"
33	21992	8	LOCKWASHER - 5/8"
34	22020	6	FLATWASHER - 5/8"
35	21775	6	HEX NUT - 5/8"
36	21833	4	CAPSCREW - 3/4" X 2 1/4"
37	21831	4	CAPSCREW - 3/4" X 1 3/4"
38	21993	8	LOCKWASHER - 3/4"
39	6T2260	4	CAPSCREW - 7/16" X 1 1/2" CUT
40	6T2501	4	CAPSCREW - 3/8" X 1 1/4"
41	21825	4	HEX NUT - 3/4"
42	21627	2	NYLOCK NUT - 3/8"
43	06537004	4	WASHER, NEOPRENE, .75x1.25x.19
44	24937	4	FLAT WASHER

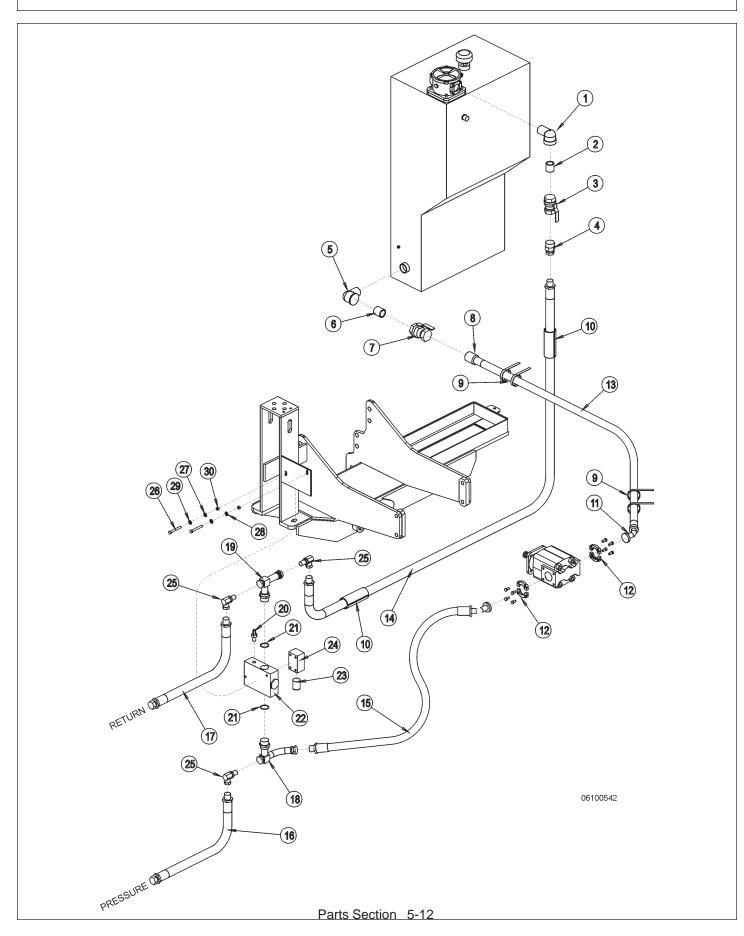
TRACTOR MOUNT KIT - MAIN FRAME, WOC, 5510



TRACTOR MOUNT KIT - MAIN FRAME, WOC, 5510

ITEM	PARTNO.	QTY.	DESCRIPTION
1	32065	1	MAIN FRAME
2	32077	1	AXLE BRACE - RIGHT HAND
3	32078	1	AXLE BRACE - LEFT HAND
4	23152	1	HYDRAULIC PUMP
5	31911	1	PUMP MOUNTING BRACKET
6	6T0375B	1	DRIVE SHAFT COUPLER
7	6T0339	1	PUMP DRIVE SHAFT
8	6T0389	1	CRANKSHAFTADAPTER
9	32583	1	CRANKSHAFT SPACER
10	6T1209	2	TANK SIGHT GLASS
	28061	AVAIL.	HYDRAULIC RESERVOIR ASSY.
11	6T1219D	1	RESERVOIR TANK
12	6T0640	1	FILTER ASSY.
13	21627	4	NYLOCK NUT
14	6T4197	1	PIPE PLUG
15	6T4200	1	PIPE PLUG
16	33700	1	REDUCER BUSHING
17	6T1279B	1	TANK STRAP
18	31004	1	TANK BREATHER
19	6T0649	1	FILTER GAUGE
20	TF4888	1	STREET ELBOW
21	21732	4	CAPSCREW - 1/2" X 1 3/4"
22	21990	4	LOCKWASHER - 1/2"
23	21725	4	HEX NUT - 1/2"
24	6T2530	4	CAPSCREW - 16MM X 65MM
25	6T2625	4	LOCKWASHER - 16MM
26	31731	8	CAPSCREW - 20MM X 50MM
27	24881	8	LOCKWASHER - 20MM
28	21528	1	CAPSCREW - 1/4" X 1/2"
29	21986	1	
30	21797	8	
31	21992	8	LOCKWASHER - 5/8"
32 33	21775	8 4	HEX NUT - 5/8" CAPSCREW - 3/4" X 2 1/4"
33 34	21833	4	CAPSCREW - 3/4 X 2 1/4 CAPSCREW - 3/4" X 1 3/4"
34 35	21831 21993	4 8	LOCKWASHER - 3/4"
35 36	21993 6T2260	o 4	CAPSCREW - 7/16" X 1 1/2" CUT
30 37	6T2501	4	CAPSCREW - 7/16 X 1 1/2 COT CAPSCREW - 3/8" X 1 1/4"
37	21825	4	HEX NUT - 3/4"
39	21625	2	NYLOCK NUT - 3/8"
40	06537004	4	WASHER, NEOPRENE, 75x1.25x.19
40 41	24937	4	FLAT WASHER
-+ 1	27001	-	

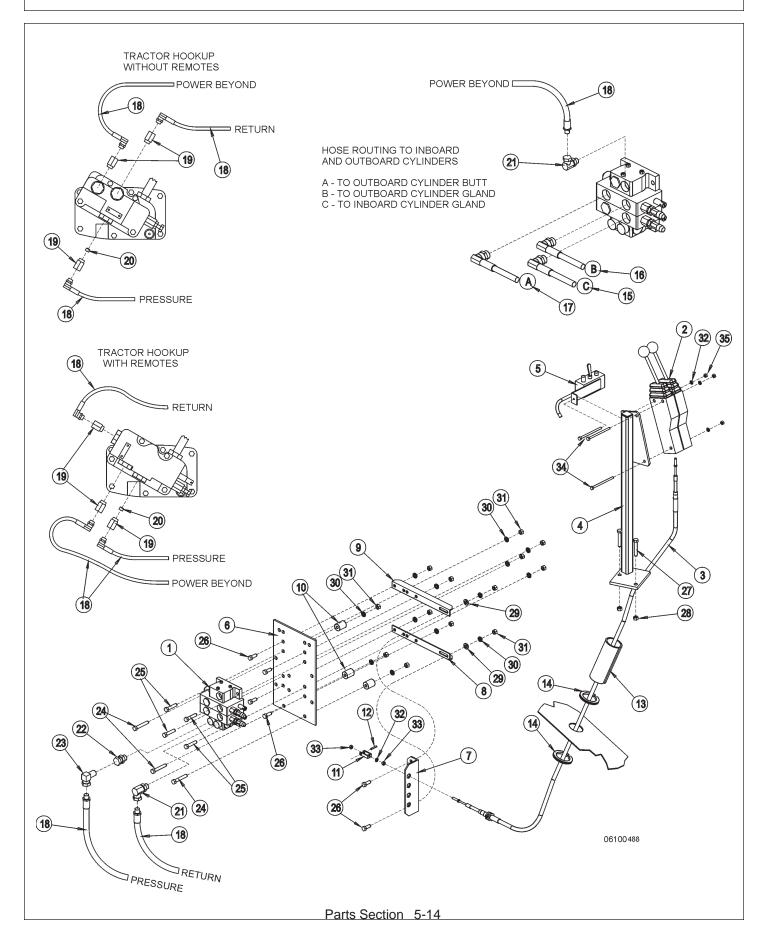
TRACTOR MOUNT KIT - HYDRAULICS



TRACTOR MOUNT KIT - HYDRAULICS

1 6T3601 1 STREET ELBOW	
2 6T3825 1 NIPPLE	
3 6T4237 1 BALL VALVE	
4 22890 1 SWIVEL	
5 6T3612 1 STREET ELBOW	
6 6T3801 1 NIPPLE	
7 6T4238 1 BALL VALVE	
8 6T3800 1 NIPPLE	
9 6T3018 4 BANDIT CLAMP	
10 6T3200 8 SPLIT HOSE	
11 22631 1 FLANGE	
12 TF4852 2 FLANGE KIT	
13 22897 5` SUCTION HOSE 1 1/2"	
14 23566 1 HOSE 1" X 55"	
15 23878 1 HOSE 1" X 78"	
16 24038 1 HOSE 1" X 53"	
17 24039 1 HOSE 1" X 47"	
27907 AVAIL. SOLENOID VALVE ASSY.	
18 23158 1 PREFORMED TEE	
19 24030 1 PREFORMED TEE	
20 6T3910 1 RELIEF VALVE	
21 6T3904A 2 O-RING	
22 27360 1 SOLENOID VALVE	
23 6T3906 1 SOLENOID	
24 6T3907 1 SOLENOID BLOCK	
25 TF4870 3 SWIVEL	
26 21638 2 CAPSCREW - 3/8" X 3"	
27 21988 1 LOCKWASHER - 3/8"	
28 6T2665 1 STAR LOCKWASHER - 3/8"	
29 22016 2 FLATWASHER - 3/8"	
30 21625 2 HEX NUT - 3/8"	

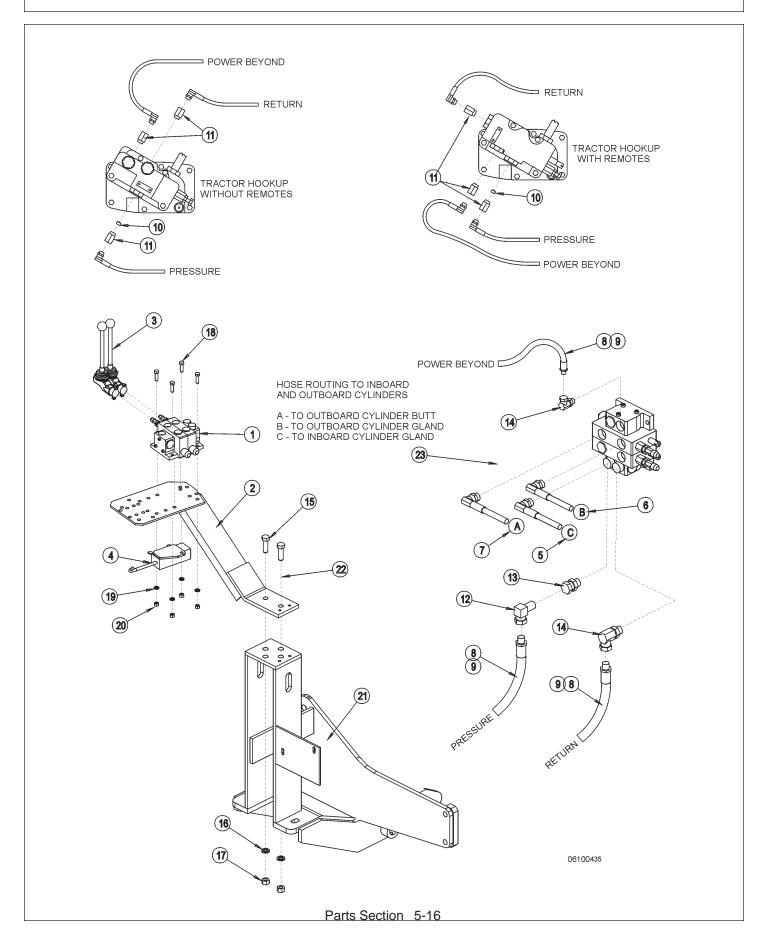
LIFT VALVE - 5500-5510, CAB



LIFT VALVE - 5500-5510, CAB

ITEM	PARTNO.	QTY.	DESCRIPTION
1	30198	1	VALVE
2	6T1251	2	CABLE CONTROL BOX
3	31356	2	CABLE CONTROL
4	31923	1	CABLE CONTROL BRACKET
5	27401	1	SINGLE SWITCH BOX
6	6T4485C	1	VALVE MOUNTING PLATE
7	6T4325	1	CABLE MOUNTING ANGLE
8	22148-1D	1	MOUNTING ANGLE
9	22148-2D	1	MOUNTING ANGLE
10	27082B	3	SPACER
11	6T4411	2	CABLE CONTROL CLEVIS
12	6T3017	2	ROLL PIN
13	6T3200	1	SPLIT HOSE
14	TB3440	8"	TRIMLOCK
15	28934	1	HOSE
16	30259	1	HOSE
17	28989	1	HOSE
18	31968	3	HOSE
19	30548	3	ADAPTOR
20	31171	1	PLUG
21	TB1095	2	SWIVEL
22	TB1094	1	SWIVEL
23	TF4879	1	SWIVEL
24	21635	3	CAPSCREW - 3/8" X 2 1/4"
25	21632	4	CAPSCREW - 3/8" X 1 1/2"
26	21630	6	CAPSCREW - 3/8" X 1"
27	21633	2 2	CAPSCREW - 3/8" X 1 3/4"
28 29	21627 22016	2	NYLOCK NUT - 3/8" FLATWASHER - 3/8"
29 30	22016	∠ 13	LOCKWASHER - 3/8"
30 31	21900	13	HEX NUT - 3/8"
32	21025	5	LOCKWASHER - 1/4"
32 33	21900	5 4	HEX NUT - 1/4"NF
33 34	21500	4 3	CAPSCREW - 1/4" X 8"
35	21525	3	HEX NUT - 1/4"
55	21525	5	

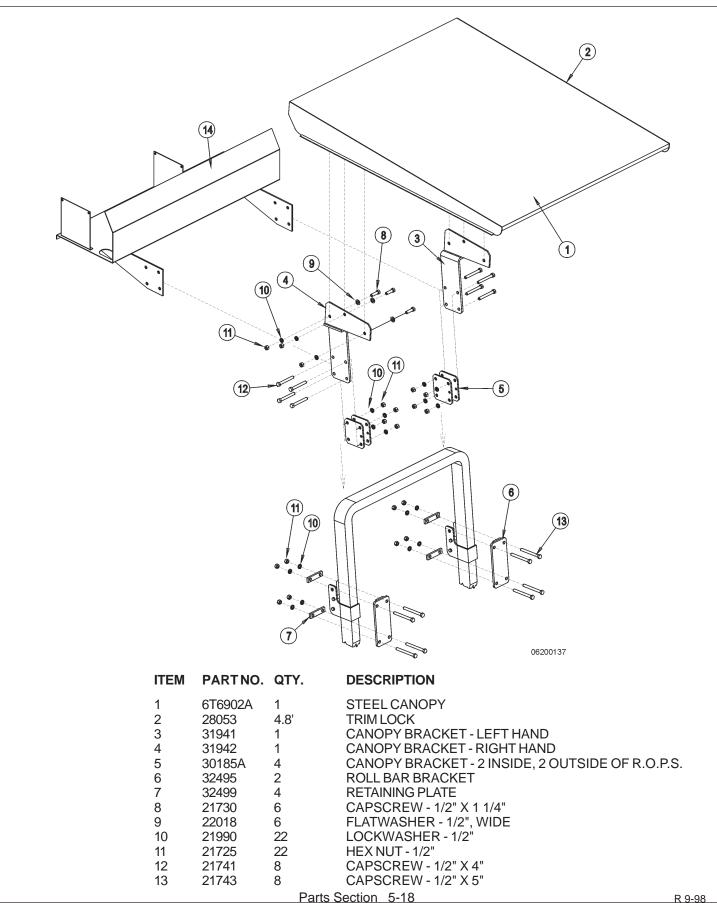
LIFT VALVE - 5500-5510, WOC



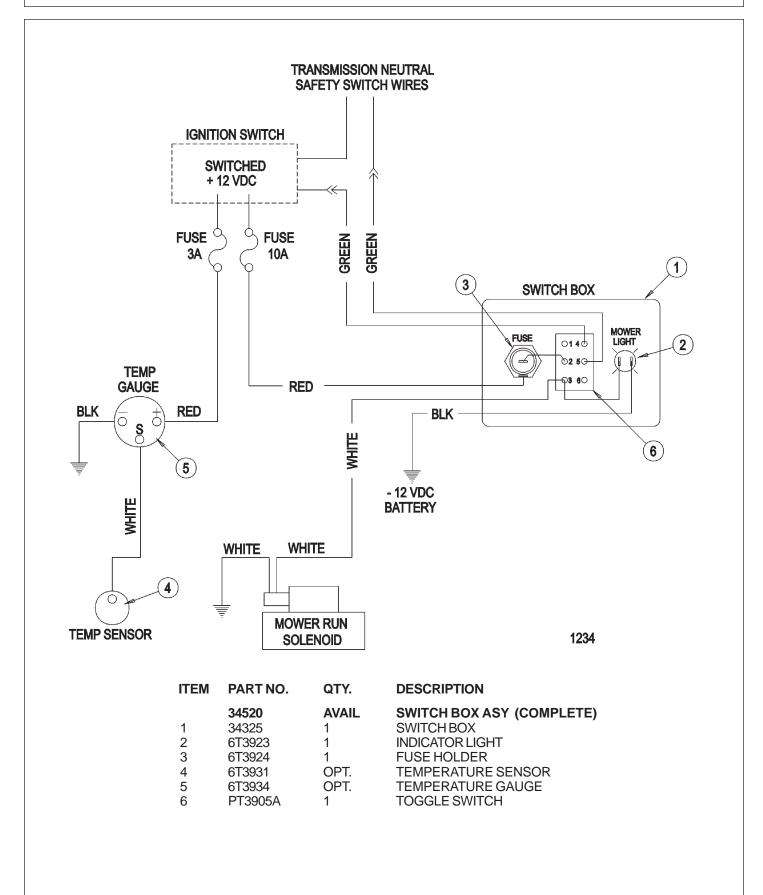
LIFT VALVE - 5500-5510, WOC

ITEM	PARTNO.	QTY.	DESCRIPTION
1	30801	1	VALVE
2	32208	1	VALVE STAND
3	TB1017L	4	LEVER ASSY.
4	6T3905N	1	SWITCH BOX
5	30005	1	HOSE
6	30029	1	HOSE
7	30322	1	HOSE
8	30718	3	HOSE
9	6T3198	10	HOSE COVER
10	31171	1	PIPE PLUG
11	30548	3	ADAPTOR
12	27145	1	SWIVEL
13	TB1094	1	SWIVEL
14	TB1095	2	SWIVEL
15	21785	2	CAPSCREW - 5/8" X 2 1/2"
16	21992	2	LOCKWASHER - 5/8"
17	21775	2	HEX NUT - 5/8"
18	21631	4	CAPSCREW - 3/8" X 1 1/4"
19	21988	4	LOCKWASHER - 3/8"
20	21625	4	HEX NUT - 3/8"
21	*	REF.	MAIN FRAME - REFER TO MAIN FRAME PARTS
22	*	REF.	TRAVEL LOCK - REFER TO MAIN FRAME PARTS
23	27979	1	HOSE COVER TO COVER VALVE

STEEL CANOPY - OPTIONAL



SOLENOID VALVE SWITCH AND WIRING



PARTS QUICK INDEX

This section will assist you in finding the repair parts that you may need for your Tiger mower quickly and easily. The following is a list of common parts and or assemblies followed by the pages in this book where they may be found.

MAIN FRAME AND ATTACHMENTS	5-4 5-6 5-8 5-10
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STANDARD DUTY SIDE FLAIL MOWER

COMMON 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.

1. 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.



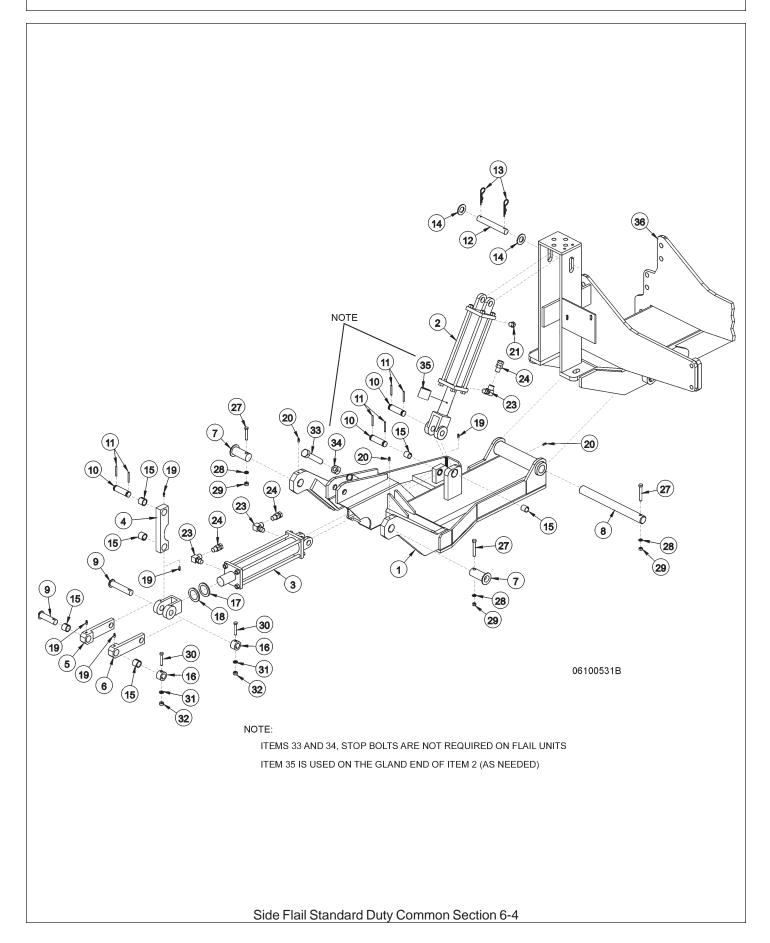
For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

Tiger Corporation

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

COMBO DRAFT BEAM



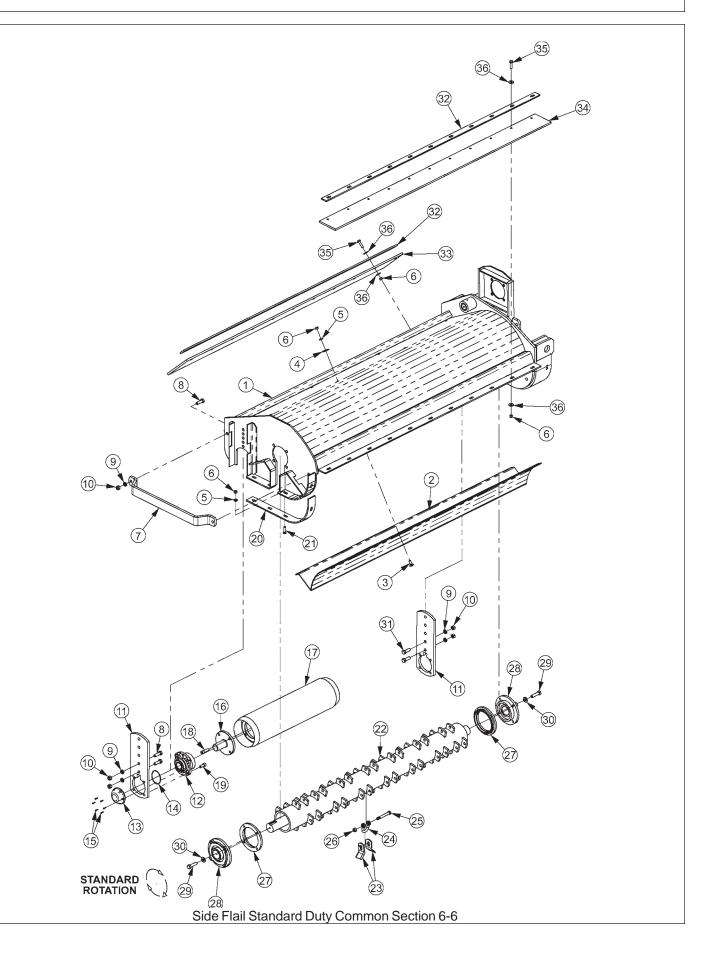
COMBO DRAFT BEAM

ITEM	PART NO.	QTY.	DESCRIPTION
1	32143	1	COMBO DRAFT BEAM - STANDARD DUTY
2	6T0151R	1	HYD. CYLINDER 3" X 10"
3	25343	1	HYD. CYLINDER 3" X 11.5"
4	TF4500A	1	PIVOTARM
5	TF4507B	1	RIGHT LINKAGE ARM
6	TF4506B	1	LEFT LINKAGE ARM
7	TF4514	2	PIN, HEAD PIVOT
8	6T3001	1	PIN, BEAM PIVOT
9	TF4519	2	PIN, LINKAGE
10	6T3003D	3	PIN, CLEVIS (DRILLED)
11	TB1023	6	ROLLPIN 7/32" X 2"
12	6T3002A	1	PIN, LIFT CYLINDER
13	6T3004	2	R-CLIP HAIRPIN
14	22023	2	FLATWASHER 1"
15	TB3010	6	BUSHING 1"
16	22847	2	BOSS, LINKAGE PIN
17	22076	1	SPACER, HYD. CYLINDER 1"(AS NEEDED)
18	22077	1	SPACER, HYD. CYLINDER 1/2"(AS NEEDED)
19	6T3207	5	GREASE ZERK 1/4"
20	6T3211	3	GREASE ZERK 1/8"
21	6T4258	1	BREATHER 1/2"
23	34244	3	ELBOW FITTING 1/2"
24	34396	3	SWIVEL RESTRICTOR
27	21688	3	CAPSCREW 7/16" X 3 1/4"
28	21989	3	LOCKWASHER 7/16"
29	21675	3	HEX NUT 7/16"
30	21635	2	CAPSCREW 3/8" X 2 1/4"
31	21988	2	LOCKWASHER 3/8"
32	21625	2	HEX NUT 3/8"
33	21831	1	CAPSCREW 3/4" X 1 3/4"
34	21825	1	HEXNUT 3/4"
35	06700095	1	SPACER
36	*	REF	REFER TO MAIN FRAME

NOTE:

ITEM 35 IS USED ON THE GLAND END OF ITEM 2 (AS NEEDED).

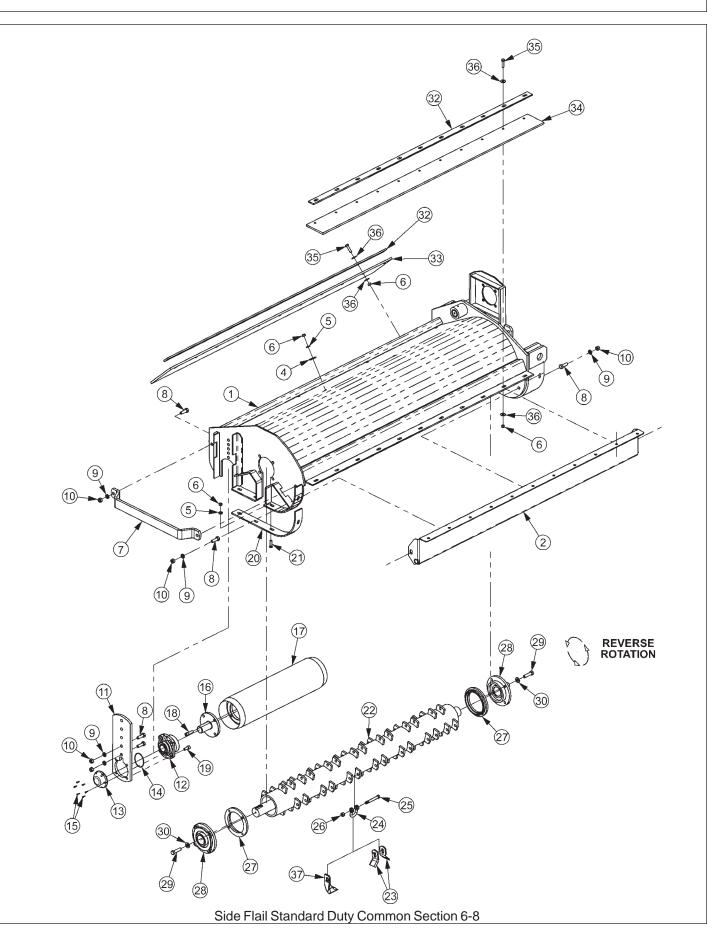
STD DUTY 63" SIDE FLAIL, STANDARD ROTATION - COMBO



63" SIDE FLAIL, STANDARD ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	28647E	1	BONNET,63,STD,COMBO
2	28665A	1	BAFFLE,63,STD ROT-STD
3	6T2283	8	CARRIAGE BOLT, 3/8 X 1 NC
4	6T2615	8	WASHER, FENDER 3/8
5	21988	18	LOCKWASHER,3/8
6	21625	40	HEX NUT,3/8 NC
7	27975A	1	GUARD,CUTTERSHAFT 5
8	21731	4	CAPSCREW,1/2 X 1-1/2 NC
9	21990	6	LOCKWASHER,1/2
10	21725	6	HEX NUT, 1/2 NC
11	28735	2	GROUND ROLLER ADJ BRKT, STD DTY
12	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
13	06520027	2	CAP,BEARING,GRNDRLR
14	06520029	2	O-RING,2 3/4x3/32,AS568A-148
15	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
16	TF1045B	2	STUB SHAFT, GROUND ROLLER
17	28650A	1	GROUND ROLLER,63
18	6T2330	8	CAPSCREW,SKTHD,7/16X1-1/2NC
19	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
20	28086A	2	SKID SHOE, STD DUTY REAR FLAIL
21	30013	9	PLOW BOLT,3/8 X 1-1/4NC GR5
22	28743	1	CUTTERSHAFT ASSY, STANDARD(22, 23, 24, 25 & 26)
23	33713	64	KNIFE, FLAIL, SHORT, FORGES GORCE
24	TF1020	32	KNIFE MTG CLEVIS, FLAIL
25	34011	32	CAPSCREW,7/16x37/16,NC GR8
26	21677	32	NYLOCK NUT,7/16 NC
27	33863	2	STRING GUARD, STD
28	28683	2	BEARING,FLANGE,1-15/16STDTSF
29	06530217	8	CAPSCREW,1/2 X 2,NC,L9
30	06533006	8	FLATWASHER,1/2,SAE,L9
31	21732	2	CAPSCREW,1/2 X 1-3/4 NC
32	28700	2	BAR,FLAP,TSF/TBF 63
33	28701	1	FLAP, DEFLECTOR, TSF 63
34 25	06520241	1	
35 36	21632 22016	22 44	CAPSCREW,3/8 X 1-1/2 NC
30	22010	44	FLATWASHER,3/8

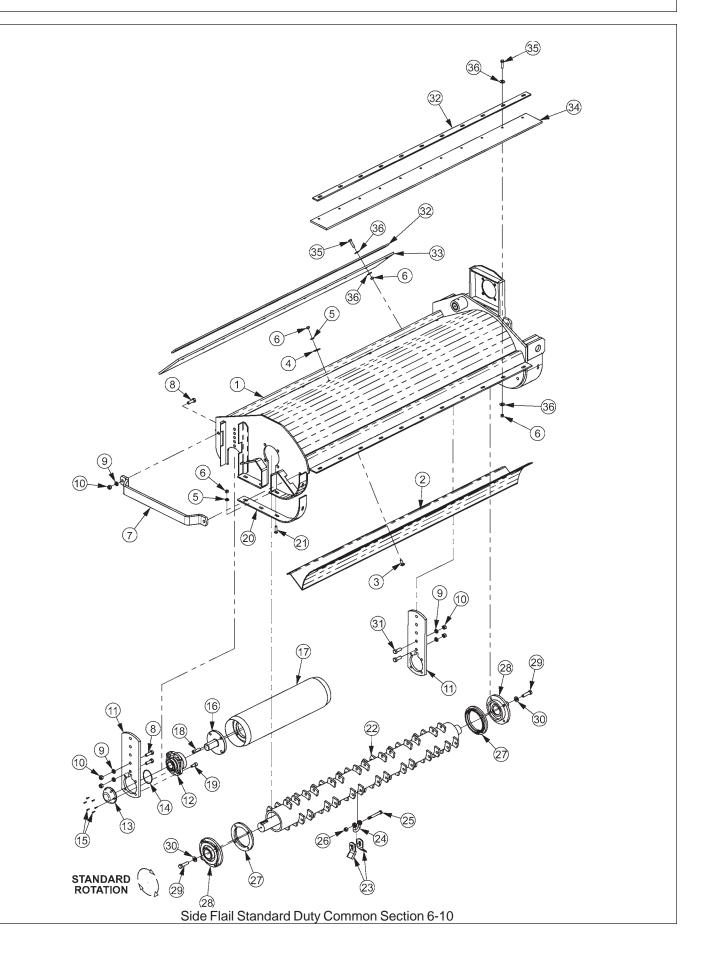
STD DUTY 63" SIDE FLAIL, REVERSE ROTATION - COMBO



63" SIDE FLAIL, REVERSE ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	28647E	1	BONNET,63,STD,COMBO
2	28969A	1	TRASH GUARD,63REV ROT-STD
3	6T2283	8	CARRIAGE BOLT, 3/8 X 1 NC
4	6T2615	8	WASHER, FENDER 3/8
5	21988	18	LOCKWASHER,3/8
6	21625	40	HEX NUT,3/8 NC
7	27975A	1	GUARD, CUTTERSHAFT 5
8	21731	8	CAPSCREW,1/2 X 1-1/2 NC
9	21990	8	LOCKWASHER,1/2
10	21725	8	HEX NUT, 1/2 NC
11	28735	2	GROUND ROLLER ADJ BRKT, STD DTY
12	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
13	06520027	2	CAP,BEARING,GRNDRLR
14	06520029	2	O-RING,2 3/4x3/32,AS568A-148
15	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
16	TF1045B	2	STUB SHAFT, GROUND ROLLER
17	28650A	1	GROUND ROLLER,63
18	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
19	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
20	28086A	2	SKID SHOE, STD DUTY REAR FLAIL
21	30013	9	PLOW BOLT,3/8 X 1-1/4NC GR5
22	28743	1	CUTTERSHAFT ASSY, STANDARD (22, 23, 24, 25 & 26)
	28744	1	CUTTERSHAFT ASSY, SMOOTH (22, 23, 24, 25 & 37)
23	33713	64	FLAIL KNIVES (STANDARD CUT)
24	TF1020	32	KNIFE MTG CLEVIS,FLAIL
25	34011	32	CAPSCREW,7/16x37/16,NC GR8
26	21677	32	NYLOCK NUT,7/16 NC
27	33863	2	STRING GUARD, STD
28	28683	2	BEARING,FLANGE,1-15/16STD TSF
29	06530217	8	CAPSCREW, 1/2 X 2, NC, L9
30	06533006	8	FLATWASHER,1/2,SAE,L9
31	21732	2	CAPSCREW, 1/2 X 1-3/4 NC
32	28700	2	BAR,FLAP,TSF/TBF 63
33	28701	1	FLAP, DEFLECTOR, TSF 63
34	06520241	1	FLAP,63",FRONT
35	21632	22	CAPSCREW,3/8 X 1-1/2 NC
36	22016	44	FLATWASHER,3/8
37	28184A	32	FLAIL KNIVES (SMOOTH CUT)

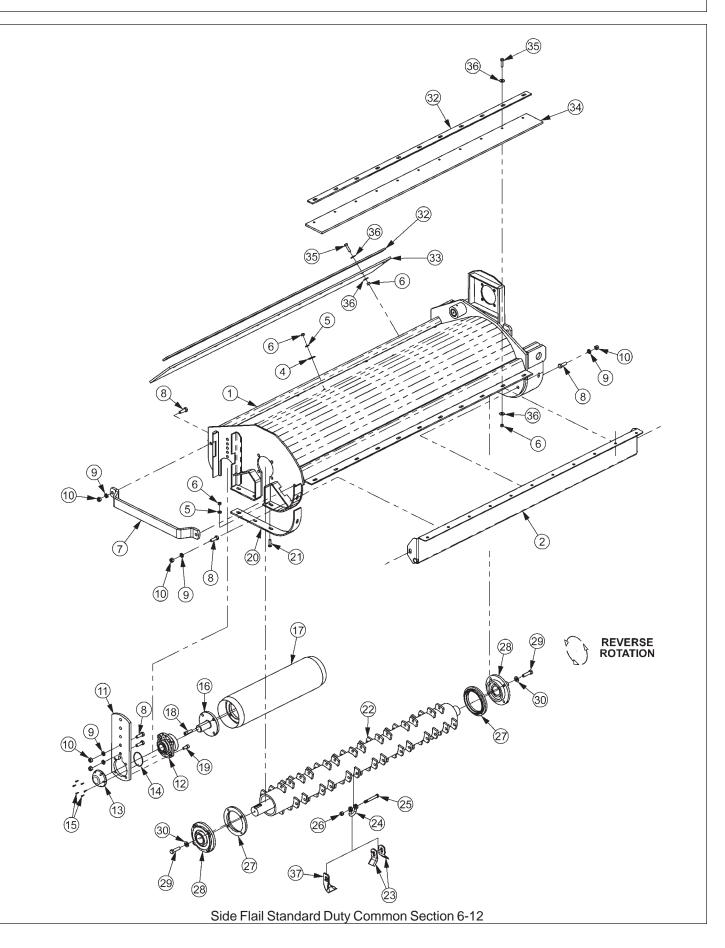
STD DUTY 75" SIDE FLAIL, STANDARD ROTATION - COMBO



STD DUTY 75" SIDE FLAIL, STANDARD ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	28736D	1	BONNET,75,STD,T3F,RT
2	28737	1	BAFFLE,75,STD ROT-STD
3	6T2283	8	CARRIAGE BOLT, 3/8 X 1 NC
4	6T2615	8	WASHER, FENDER 3/8
5	21988	18	LOCKWASHER,3/8
6	21625	40	HEX NUT,3/8 NC
7	27975A	1	GUARD, CUTTERSHAFT 5
8	21731	4	CAPSCREW, 1/2 X 1-1/2 NC
9	21990	6	LOCKWASHER,1/2
10	21725	6	HEX NUT, 1/2 NC
11	28735	2	GROUND ROLLER ADJ BRKT, STD DTY
12	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
13	06520027	2	CAP,BEARING,GRNDRLR
14	06520029	2	O-RING,2 3/4x3/32,AS568A-148
15	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
16	TF1045B	2	STUB SHAFT, GROUND ROLLER
17	28738	1	GROUND ROLLER,75
18	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
19	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
20	28086A	2	SKID SHOE, STD DUTY REAR FLAIL
21	30013	9	PLOW BOLT,3/8 X 1-1/4NC GR5
22	28747	1	CUTTERSHAFT ASSY, STANDARD(22, 23, 24, 25 & 26)
23	33713	64	KNIFE,FLAIL,SHORT,FORGES GORCE
24	TF1020	32	KNIFE MTG CLEVIS, FLAIL
25	34011	32	CAPSCREW,7/16x37/16,NC GR8
26	21677	32	NYLOCK NUT,7/16 NC
	06200639	*	STRING GUARD KIT, SD (ITEMS 27,29,30)
27	33863	2	STRING GUARD, STD
28	28683	2	BEARING,FLANGE,1-15/16STD TSF
29	06530217	8	CAPSCREW,1/2 X 2,NC,L9
30	06533006	8	FLATWASHER,1/2,SAE,L9
31	21732	2	CAPSCREW,1/2 X 1-3/4 NC
32	28700	2	BAR,FLAP,TSF/TBF 63
33	28701	1	FLAP, DEFLECTOR, TSF 63
34	06520241	1	FLAP,63",FRONT
35	21632	22	CAPSCREW,3/8 X 1-1/2 NC
36	22016	44	FLATWASHER,3/8

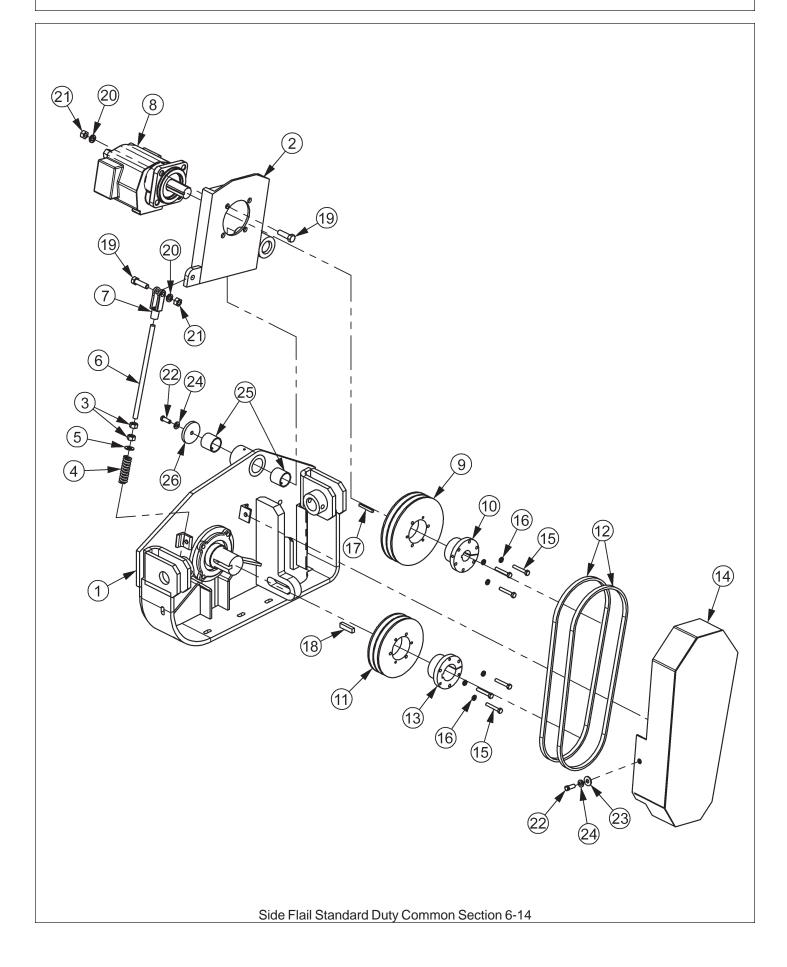
STD DUTY 75" SIDE FLAIL, REVERSE ROTATION - COMBO



75" SIDE FLAIL REVERSE ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	28736D	1	BONNET,75,STD,T3F,RT
2	28969A	1	TRASH GUARD,63REV ROT-STD
3	6T2283	8	CARRIAGE BOLT, 3/8 X 1 NC
4	6T2615	8	WASHER, FENDER 3/8
5	21988	18	LOCKWASHER,3/8
6	21625	40	HEX NUT,3/8 NC
7	27975A	1	GUARD, CUTTERSHAFT 5
8	21731	8	CAPSCREW, 1/2 X 1-1/2 NC
9	21990	8	LOCKWASHER,1/2
10	21725	8	HEX NUT, 1/2 NC
11	28735	2	GROUND ROLLER ADJ BRKT, STD DTY
12	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
13	06520027	2	CAP, BEARING, GRNDRLR
14	06520029	2	O-RING,2 3/4x3/32,AS568A-148
15	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
16	TF1045B	2	STUB SHAFT, GROUND ROLLER
17	28738	1	GROUND ROLLER,63
18	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
19	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
20	28086A	2	SKID SHOE, STD DUTY REAR FLAIL
21	30013	9	PLOW BOLT,3/8 X 1-1/4NC GR5
22	28747	1	CUTTERSHAFT ASSY, STANDARD (22, 23, 24, 25 & 26)
	28748	1	CUTTERSHAFT ASSY, SMOOTH (22, 23, 24, 25 & 37)
23	33713	64	FLAIL KNIVES (STANDARD CUT)
24	TF1020	32	KNIFE MTG CLEVIS,FLAIL
25	34011	32	CAPSCREW,7/16x37/16,NC GR8
26	21677	32	NYLOCK NUT,7/16 NC
	06200639	*	STRING GUARD KIT, SD (ITEMS 27,29,30)
27	33863	2	STRING GUARD,STD
28	28683	2	BEARING,FLANGE,1-15/16STD TSF
29	06530217	8	CAPSCREW,1/2 X 2,NC,L9
30	06533006	8	FLATWASHER,1/2,SAE,L9
31	21732	2	CAPSCREW,1/2 X 1-3/4 NC
32	28700	2	BAR,FLAP,TSF/TBF 63
33	28701	1	FLAP, DEFLECTOR, TSF 63
34	06520241	1	FLAP,63",FRONT
35	21632	22	CAPSCREW,3/8 X 1-1/2 NC
36	22016	44	FLATWASHER,3/8
37	28184A	32	FLAIL KNIVES (SMOOTH CUT)

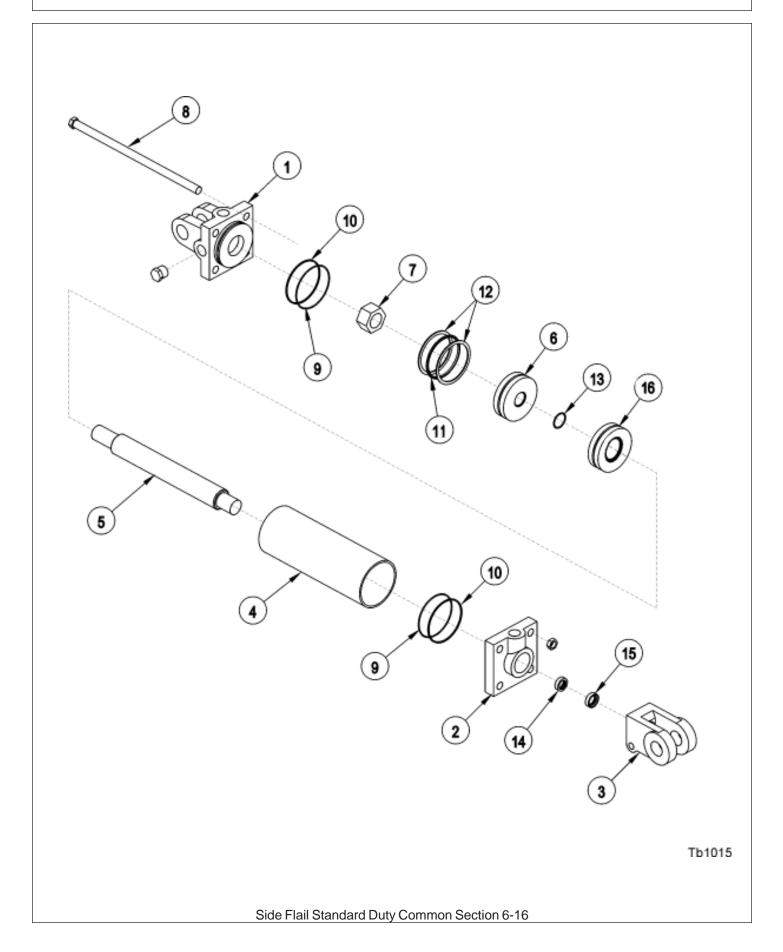
STD DUTY SIDE FLAIL DRIVE ASSEMBLY



SIDE FLAIL DRIVE ASSEMBLY

ITEM	P/N	QTY	DESCRIPTION
1	REF.	*	BONNET - REFER TO HEAD PARTS
2	28679B	1	MOTOR CHANNEL (COMBO)
3	21700	2	HEX NUT, 1/2", NF
4	TF3620A	1	SPRING, TENSIONER
5	27938	1	BUSHING,MACH,10Dx1/2IDx14GA.
6	40496	1	ROD,THREADED,1/2NFX8
7	PT3611A	1	CLEVIS,6"
8	06504013	1	MOTOR, M350-1 3/4 GEAR
9	TF3044	1	SHEAVE,8.0
10	TF3013	1	BUSHING,QD,SK 1-1/4,1/4 KEY
11	TF3040	1	SHEAVE,6.3
12	28702	2	V-BELT,(500)
13	28723	1	BUSHING,QD,SK 1-15/16
14	28703B	1	GUARD,BELT,TSF,STD
15	21584	6	CAPSCREW, 5/16 x 2,NC
16	21987	6	LOCKWASHER, 5/16"
17	06504028	1	KEY (KEY FROM MOTOR)
18	26142A	1	KEY,1/2 X 1/2 X 2
19	21732	5	CAPSCREW, 1/2 x 1 3/4,NC
20	21990	5	LOCKWASHER, 1/2"
21	21725	5	HEX NUT, 1/2 NC
22	21630	3	CAPSCREW, 3/8 x 1,NC
23	22016	2	FLATWASHER,3/8"
24	21988	3	LOCKWASHER, 3/8"
25	27580	2	BEARING,DX,1-1/2",GRM
26	28682	1	RETAINING, WASHER 2-1/2 X 5/16

HYDRAULIC LIFT CYLINDER



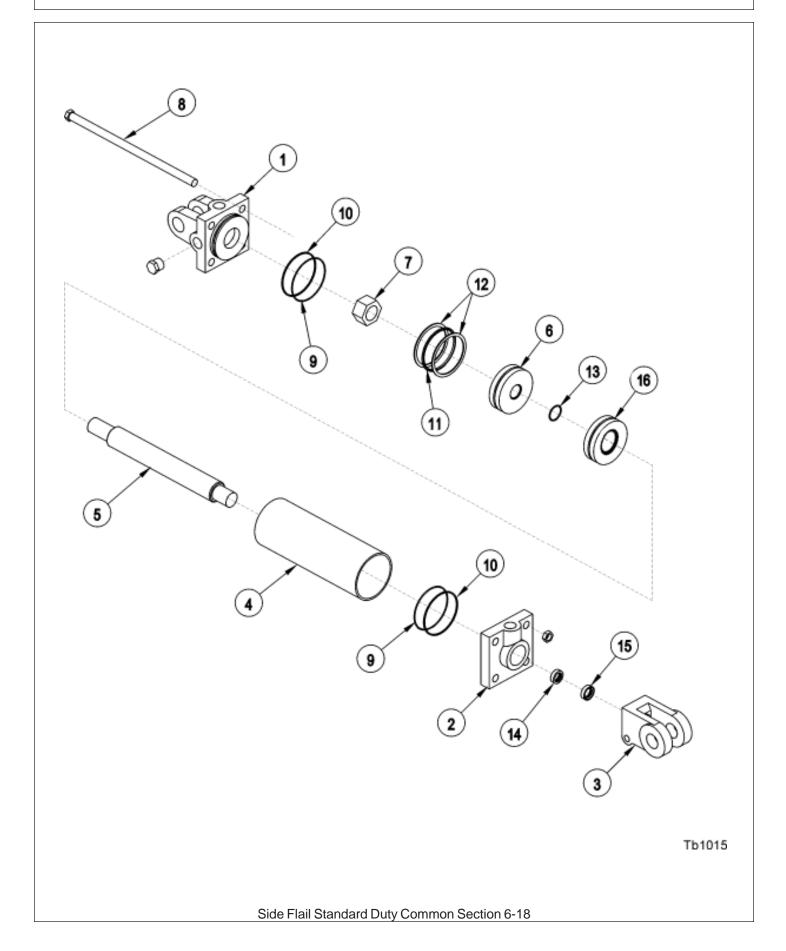
3" X 10" CYLINDER #6T0151R

ITEM	PART NO.	QTY.	DESCRIPTION
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	AVAIL	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

3" X 11.5" CYLINDER #25343

ITEM 1 2 3 4 5 6	PART NO. 6T0167 6T0170 6T0178 6T0204 6T0203 6T0173	QTY. 1 1 1 1 1 1	DESCRIPTION CYLINDER BUTT CYLINDER GLAND CLEVIS END CYLINDER TUBE PISTON ROD PISTON
7	6T0179	1	LOCKNUT
8	6T0205	1	TIE RODASY
	6T0187	AVAIL	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

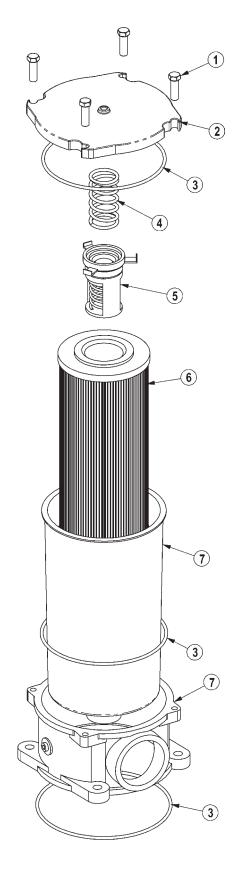
HYDRAULIC LIFT CYLINDER



3" X 12" CYLINDER # 32215

ITEM	PART NO.	QTY.	DESCRIPTION
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	1	TIE ROD ASY
	6T0187	AVAIL	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

RESERVOIR TANK FILTER ASSEMBLY



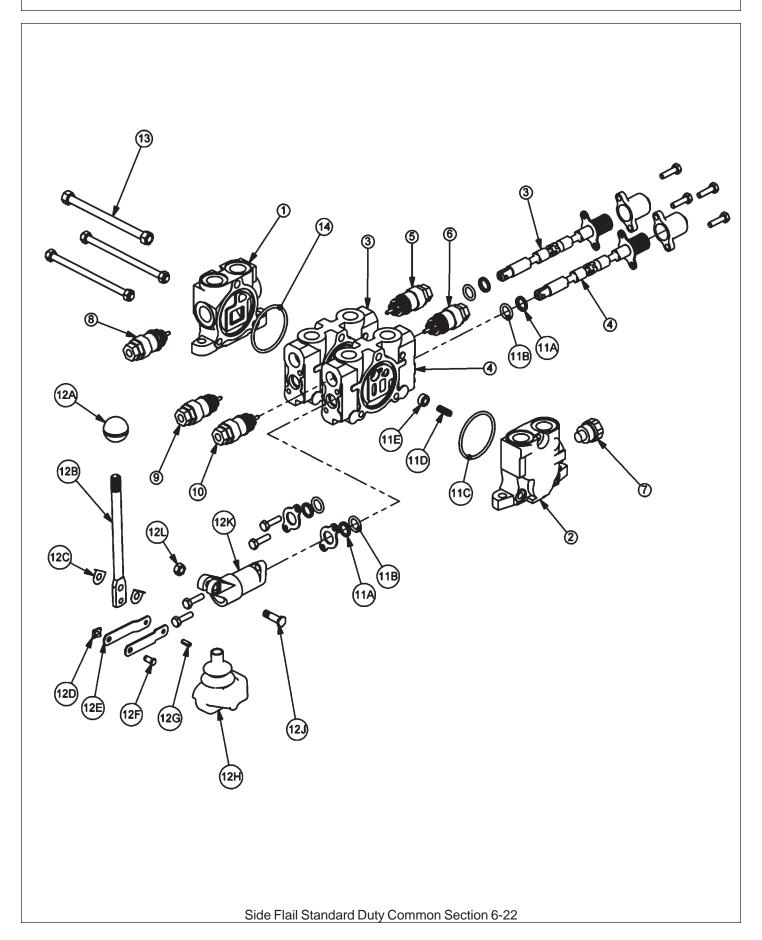
RESERVOIR TANK FILTER ASSEMBLY

ITEM	PART NO.	QTY.
	06505044	AVAIL
1	28583	4
2	06505045	1
3	06505046	1
4	06505047	1
5	06505048	1
6	35259	1
7	06505049	1

DESCRIPTION

FILTER ASSY SAE 10 MICRON CAPSCREW,8MMX25MM(1.25 PITCH) COVER SEAL KIT SPRING BYPASS FILTER,10 MIC,RETURN LINE CAN/BODY

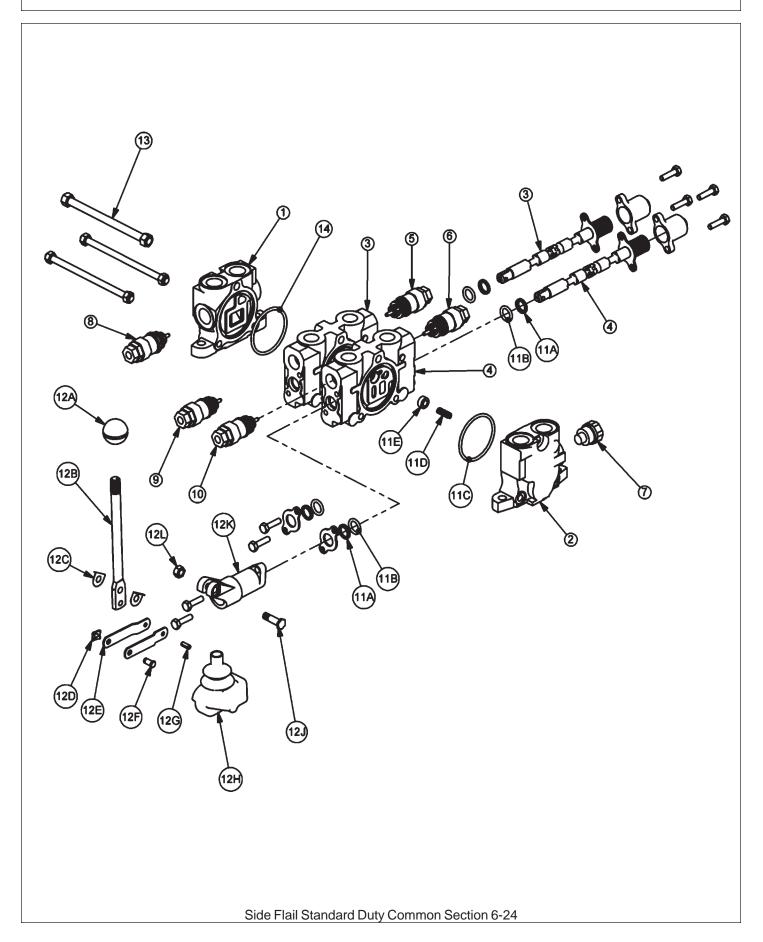
2SP HUSCO - POWER BEYOND (30198)



2SP HUSCO - POWER BEYOND (30198)

1 2 3 4 5 6 7 8 9 10	PART NO. TB1017S TB1702 TF3009 TF3009 06503067 TF4212 TB1017M TB1017E TB1017M TB1017M	QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DESCRIPTION INLET END COVER END COVER, POWER BEYOND VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) RELIEF PLUG RELIEF VALVE, 200 PSI SHUT-OFF PLUG RELIEF VALVE, 2250 PSI SHUT-OFF PLUG SHUT-OFF PLUG
11 11A 11B 11C 11D 11E		2 2 1 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SPRING PUCKET
12 12A 12B 12C 12D 12E 12F 12G 12H 12J 12K 12L		2 1 2 1 2 1 1 1 1 1	LEVER KIT (FOR ONE SECTION) LEVER KNOB LEVER LEVER WASHER LEVER CLIP LINKAGE LEVER PIN ROLL PIN LEVER BOOT LEVER BOLT LEVER DUST COVER LEVER NUT
13 14	TB1017X 24214	1 1	TIE ROD KIT O-RING, LARGE

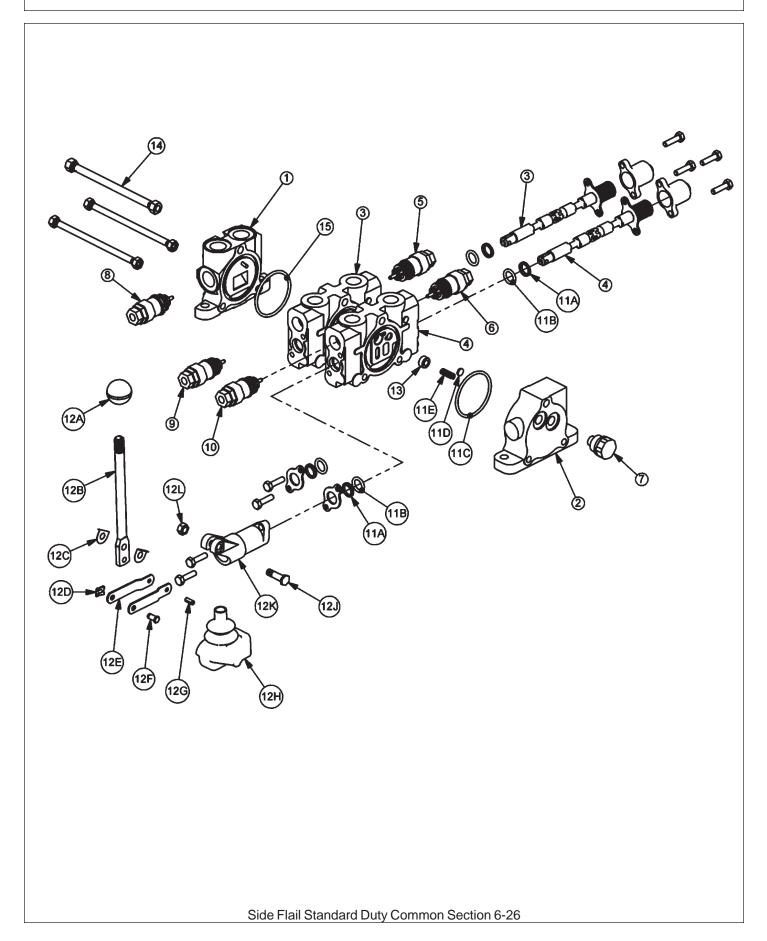
2SP HUSCO - POWER BEYOND (30801)



2SP HUSCO - POWER BEYOND (30801)

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

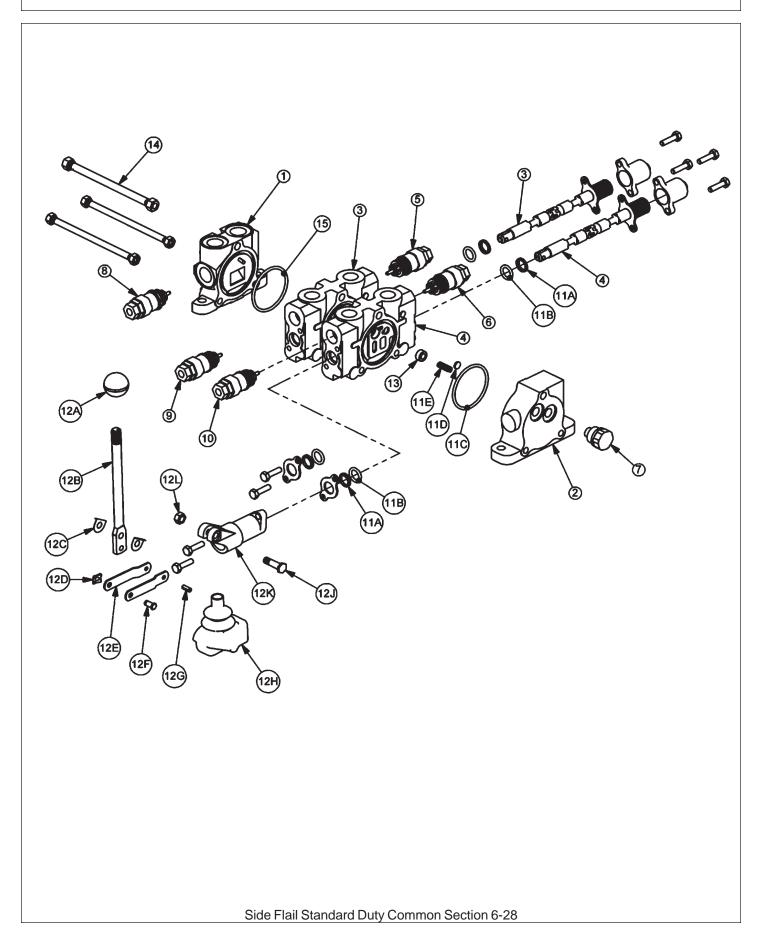
2 SP HUSCO - LOAD SENSE (31320)



2 SP HUSCO - LOAD SENSE (31320)

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 RELIEF PLUG
6 7	06503067 N/A	1	N/A
8	6T4209	- 1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11 11 11 11 11 11	B C D	2 2 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SHUTTLE DISC SPRING
12 12 12 12 12 12 12 12 12 12 12 12 12	B C D E F G H J K	2 1 2 1 2 1 1 1 1 1 1	LEVER KIT (FOR ONE SECTION) LEVER KNOB LEVER LEVER WASHER LEVER CLIP LINKAGE LEVER PIN ROLL PIN LEVER BOOT LEVER BOLT LEVER DUST COVER LEVER NUT
13 14 15	31603 TB1017X 24214	2 1 1	COMPENSATOR TIE ROD KIT O-RING, LARGE

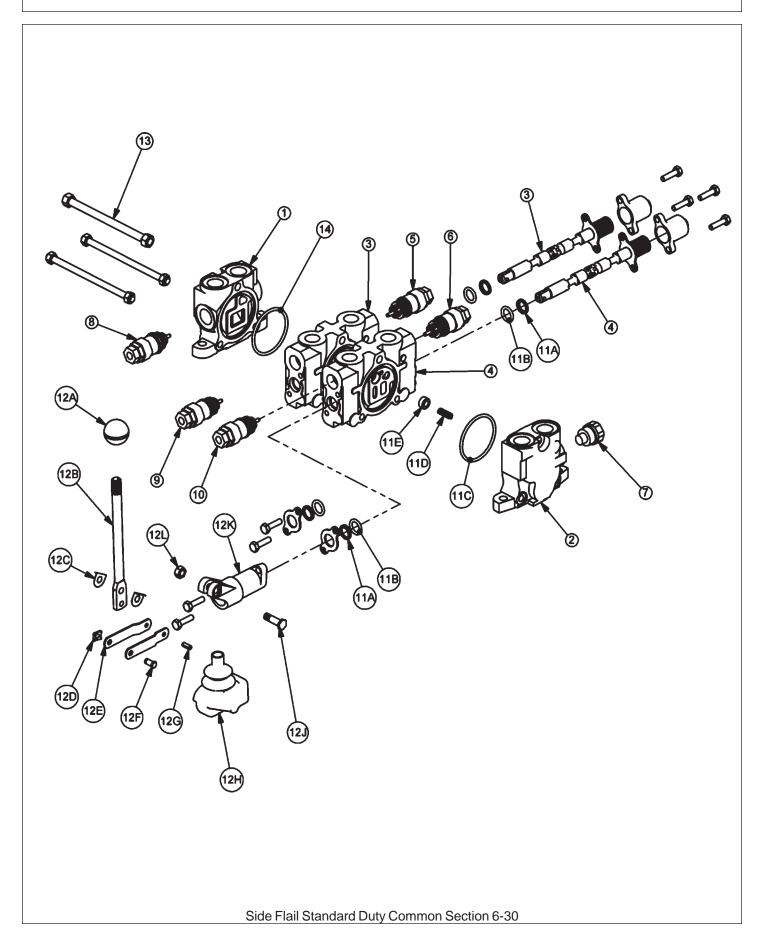
2SP HUSCO - LOAD SENSE (31322)



2SP HUSCO - LOAD SENSE (31322)

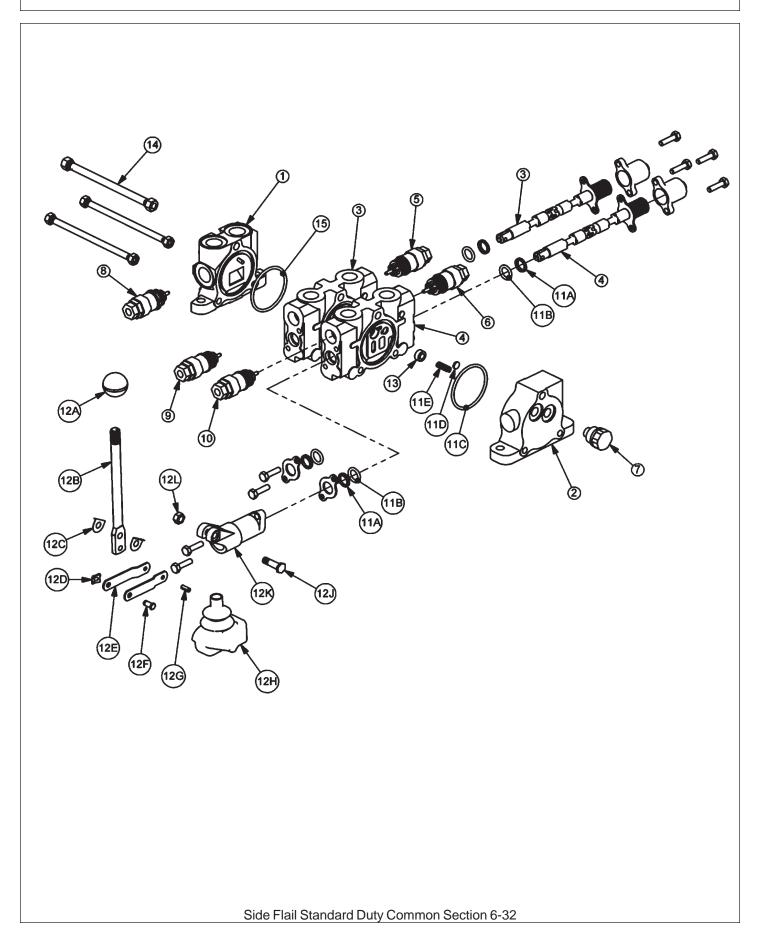
ITEM	I	PART NO.	QTY	DESCRIPTION
1		31595	1	INLET END COVER
2		31594	1	END COVER, LOAD SENSE
3		31600	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
4		31600	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
5		06503067	1	RELIEF PLUG
6		31861	1	RELIEF VALVE, 360 PSI
7		N/A	- 1	N/A RELIEF PLUG
8 9		6T4209 31862	1	RELIEF PLOG RELIEF VALVE, 2175 PSI
9 10		31862	1	RELIEF VALVE, 2175 PSI
10		01002		
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)
12	12A	IDIOINE	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	
	12K		1	
	12L		1	LEVER NUT
13		31603	2	COMPENSATOR
14		TB1017X	1	TIE ROD KIT
15		24214	1	O-RING, LARGE

2SP HUSCO - POWER BEYOND (31752)



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

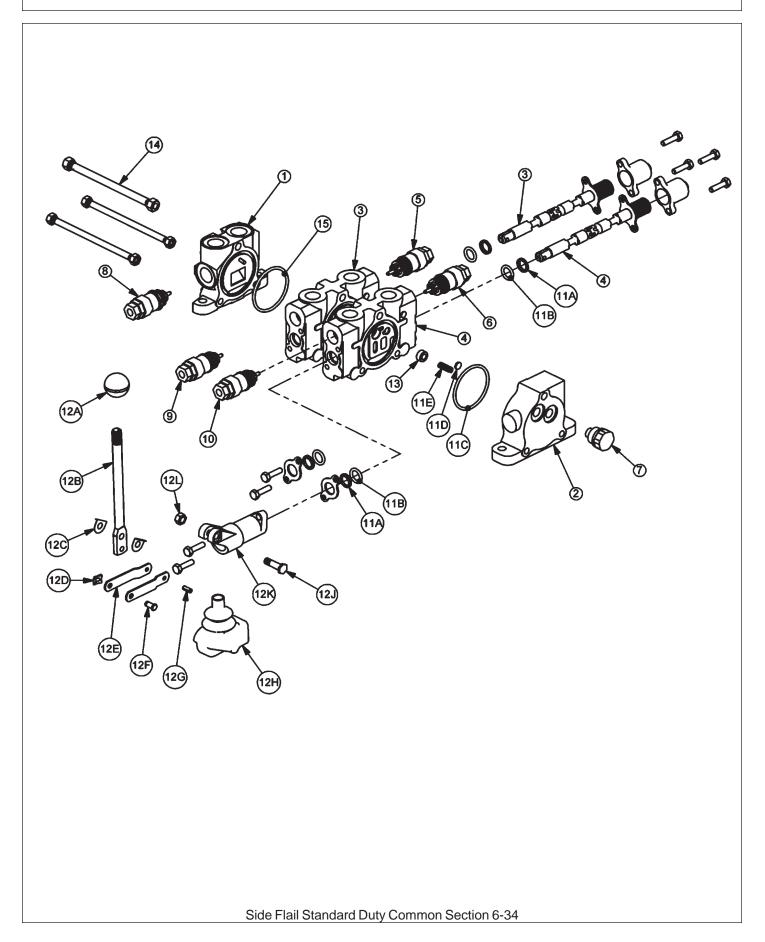
2SP HUSCO - LOAD SENSE (06502040)



2SP HUSCO - LOAD SENSE (06502040)

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 11A 11B	31593	2 2 2	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL
11D		2 1	O-RING SMALL O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12 12A 12B 12C 12D 12E 12F	TB1017L	2 1 2 1 2 1	LEVER KIT (FOR ONE SECTION) LEVER KNOB LEVER LEVER WASHER LEVER CLIP LINKAGE LEVER PIN
120 12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13 14 15	31603 TB1017X 24214	2 1 1	COMPENSATOR TIE ROD KIT O-RING, LARGE

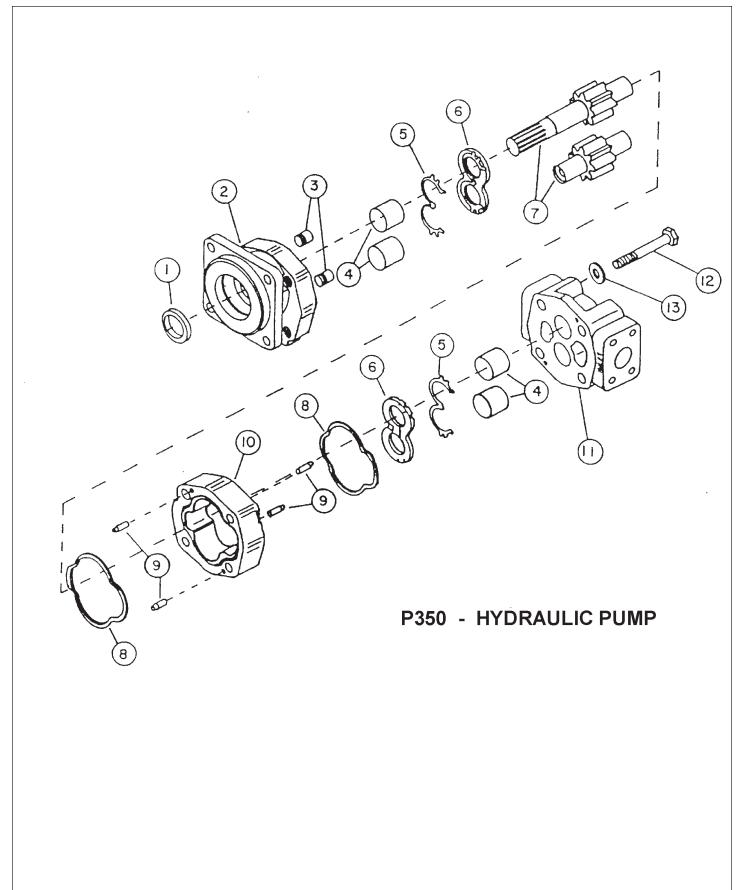
2SP HUSCO - LOAD SENSE (06502042)



2SP HUSCO - LOAD SENSE (06502042)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT FLOAT)
4	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT FLOAT) (REMOVE SHUTTLE DISC)
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 11A 11B 11C 11D 11E	31593	2 2 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SHUTTLE DISC SPRING
12 12A 12B 12C 12D 12E 12F 12G 12H 12J 12K 12L	TB1017L	2 1 2 1 2 1 1 1 1 1	LEVER KIT (FOR ONE SECTION) LEVER KNOB LEVER LEVER WASHER LEVER CLIP LINKAGE LEVER PIN ROLL PIN LEVER BOOT LEVER BOLT LEVER DUST COVER LEVER NUT
13 14 15	31603 TB1017X 24214	2 1 1	COMPENSATOR TIE ROD KIT O-RING, LARGE

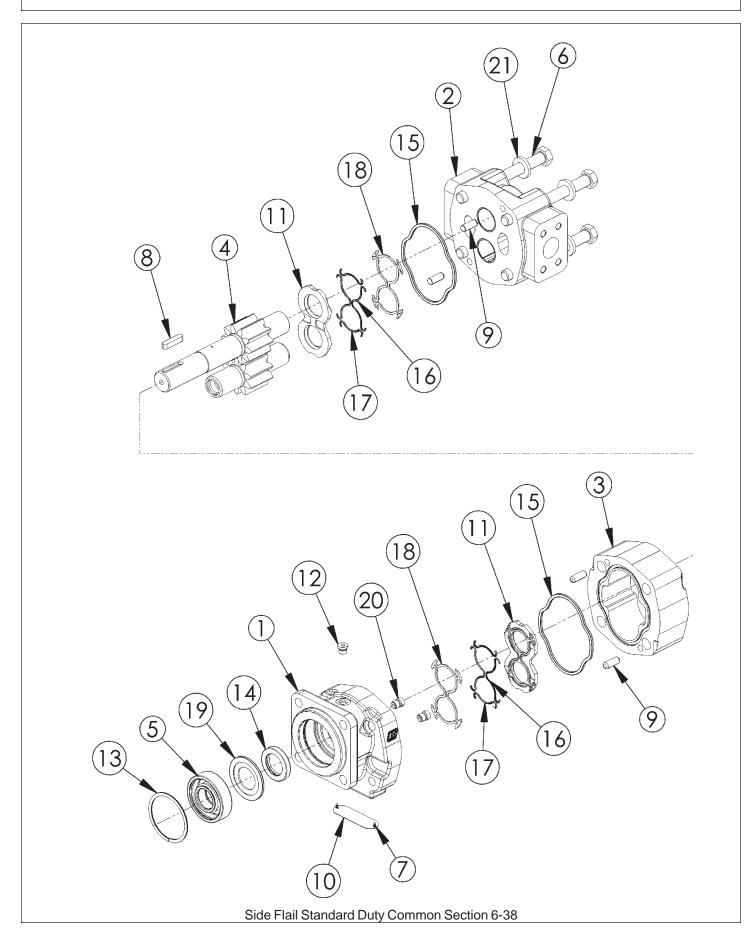
FRONT HYDRAULIC PUMP – HIGH PRESSURE



FRONT HYDRAULIC PUMP – HIGH PRESSURE

ITEM	PART NO.	QTY.	DESCRIPTION
*	23152	AVAIL	PUMP ASSEMBLY 1 3/4" COMPLETE
1	22765	1	SEAL (INCLUDED IN SEAL KIT)
2	22766	1	SHAFT END COVER
3	22767	2	CHECK AND END COVER
4	22768	2	BUSHING
5	22769	2	CHANNEL SEAL (INCLUDED IN SEAL KIT)
6	22770	2	THRUST PLATE (INCLUDED IN SEAL KIT)
7	22771	SET	DRIVE SHAFT AND GEAR SET 1 3/4"
8	22772	2	GASKET SEAL (INCLUDED IN SEAL KIT)
9	22773	4	DOWEL PINS
10	22774	1	GEAR HOUSING 1 3/4"
11	22779	1	PORT END COVER
12	23824	4	STUDS
13	22781	SET	WASHER
	6T5322	AVAIL	SEAL APPLICATOR TOOL
	24150	AVAIL	SEAL KIT (INCLUDES 1, 5, 6 AND 8)

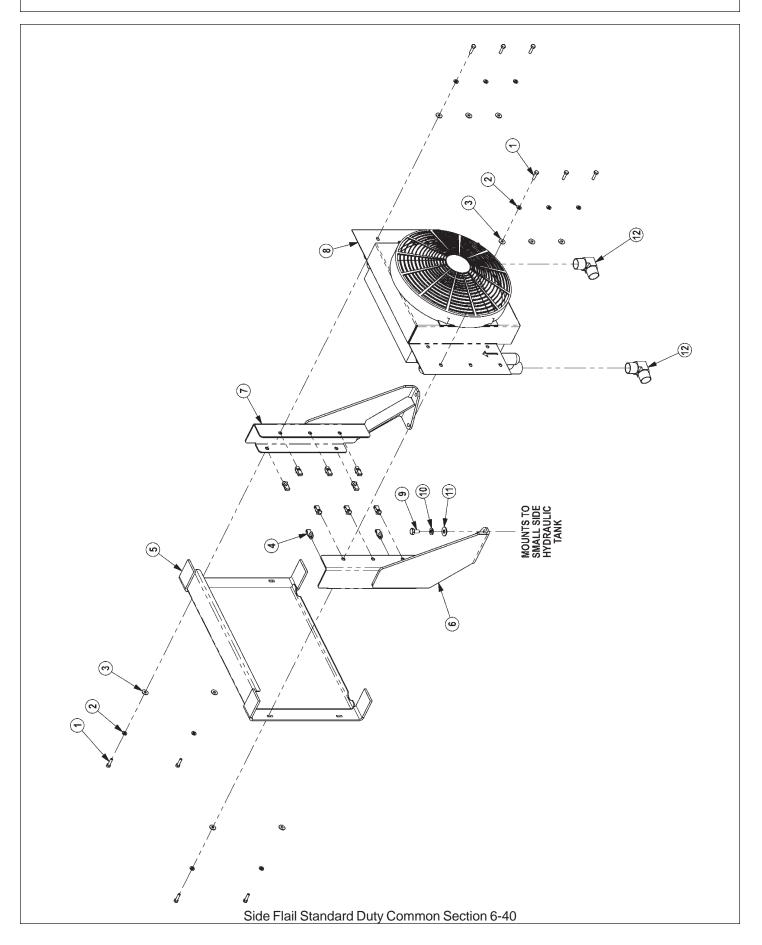
SIDE DECK MOTOR – HIGH PRESSURE



SIDE DECK MOTOR – HIGH PRESSURE

ITEM	PART NO.	QTY.	DESCRIPTION
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 *	06504013 06504040 06504040 06504042 TF4402 06504043 06504043 06504043 06504045 763759 02961940 TF4401 06504049 TF4410 06504049 TF4410 06504047 TF4407 06504048 6T5809 02961917 06504022	AVAIL 1 1 1 1 2 1 4 1 2 1 1 2 4 4 2 1 2 4 4 2 1 2 4 4 2 4 4 2 1 2 4 4 2 4 4 4 2 1 2 4 4 4 4	MOTOR ASSEMBLY 350 - TSF SHAFT END COVER PORT END COVER GEAR HOUSING MATCHED GEAR SET BALL BEARING CAP SCREW SET SCREW KEY DOWEL PIN NAMEPLATE THRUSTPLATE HEX PLUG SNAP RING LIP SEAL (INCLUDED IN SEAL KIT) GASKET SEAL (INCLUDED IN SEAL KIT) SIDE SEAL (INCLUDED IN SEAL KIT) SIDE SEAL (INCLUDED IN SEAL KIT) BACK-UP SEAL (INCLUDED IN SEAL KIT) BACK-UP SEAL (INCLUDED IN SEAL KIT) SEAL RETAINER CHECK ASSEMBLY WASHER SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)
ITEM	PART NO.	QTY.	DESCRIPTION
* 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 *	06504015 06504039 06504060 06504055 06504056 TF4402 06504044 06504045 763759 02961940 TF4401 06504049 TF4410 06504049 TF4410 06504046 06504047 TF4407 02961932 6T5809 02961917 06504022	AVAIL 1 1 1 1 4 2 4 1 2 1 1 2 4 4 2 4 4 2 1 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 4 4 4 2 4	MOTOR ASSEMBLY 350 - STD DUTY T3F SHAFT END COVER PORT END COVER GEAR HOUSING MATCHED GEAR SET BALL BEARING CAP SCREW SET SCREW DOWEL PIN NAMEPLATE THRUSTPLATE HEX PLUG SNAP RING LIP SEAL (INCLUDED IN SEAL KIT) GASKET SEAL (INCLUDED IN SEAL KIT) SIDE SEAL (INCLUDED IN SEAL KIT) SIDE SEAL (INCLUDED IN SEAL KIT) BACK-UP SEAL (INCLUDED IN SEAL KIT) BACK-UP SEAL (INCLUDED IN SEAL KIT) SEAL RETAINER CHECK ASSEMBLY WASHER SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

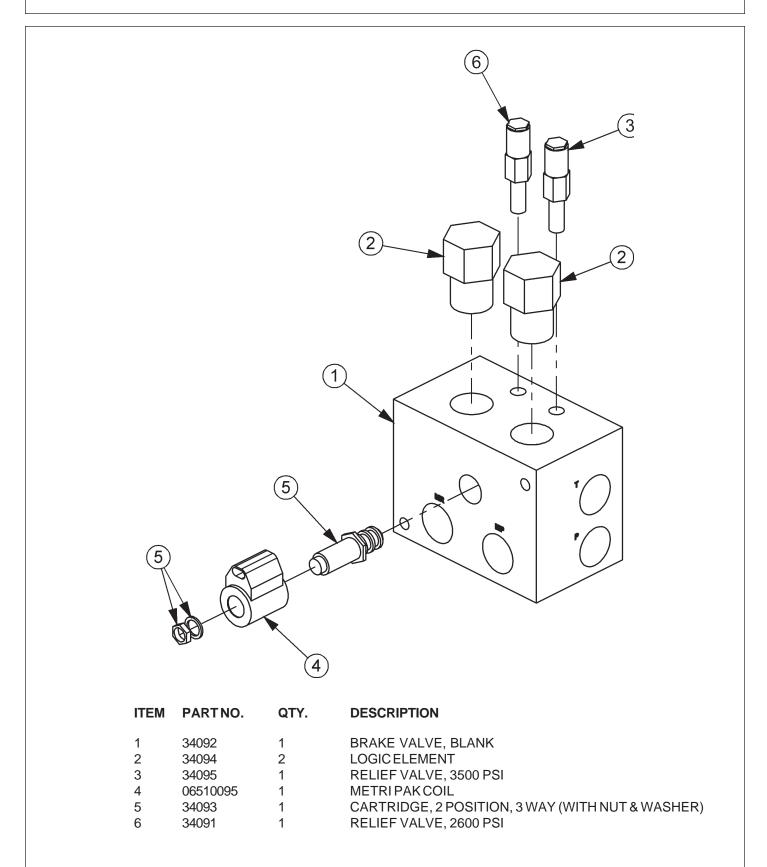
SIDE COOLER



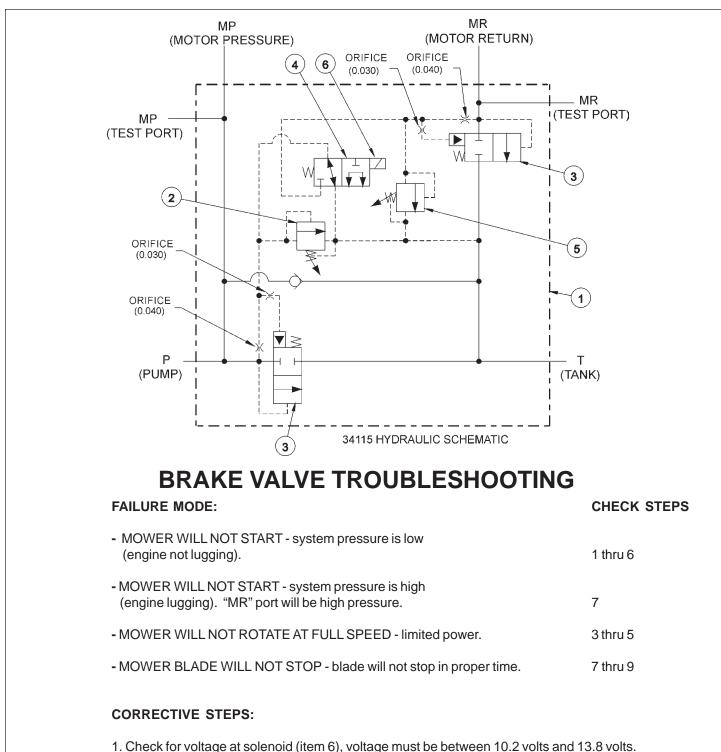
SIDE COOLER

ITEM	PARTNO.	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

BRAKE VALVE ASSEMBLY W/ METRI PAK

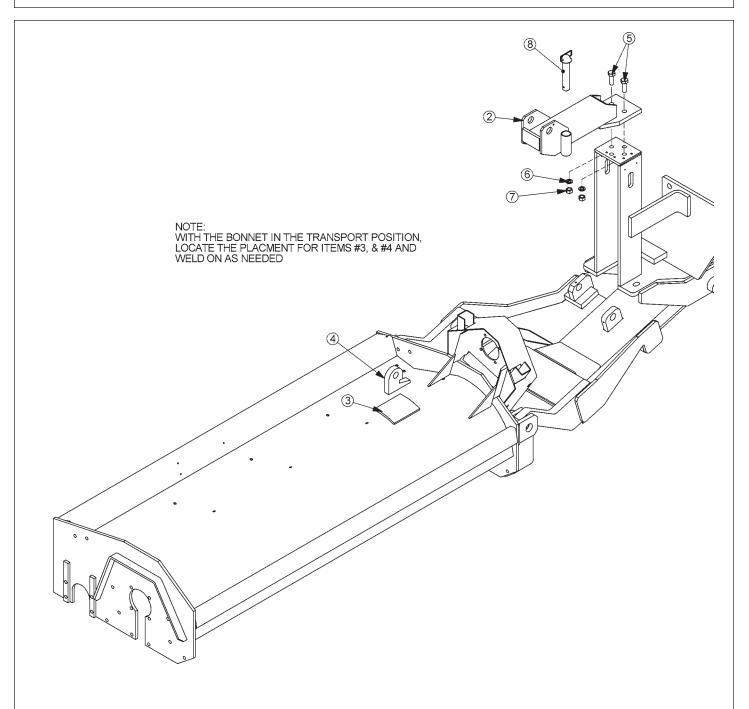


SOLENOID BRAKE VALVE HYDRAULIC SCHEMATIC



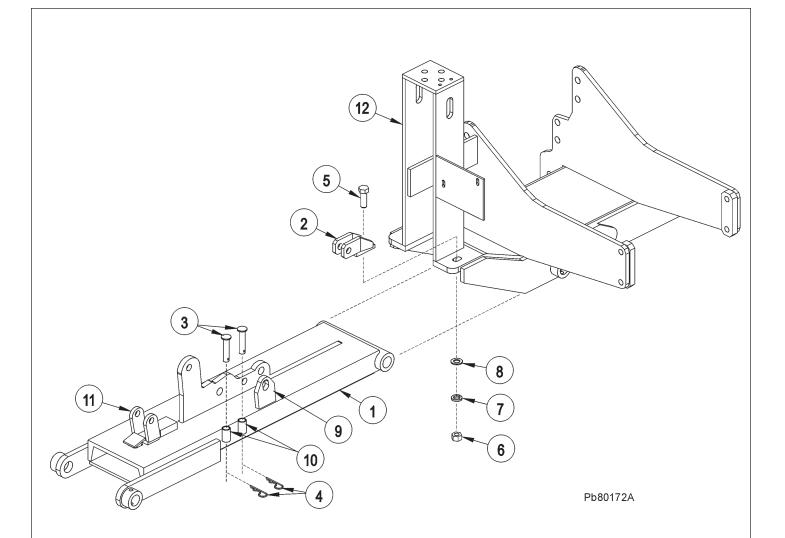
- 2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
- 3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
- 4. Remove, inspect 3000 psi relief valve (item 2) for wear or contamination.
- 5. Remove and inspect orifices near "P" port for contamination.
- 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, inpect logic element near "MR" port (item 3) for wear or contamination.

SIDE FLAIL TRAVEL LOCK



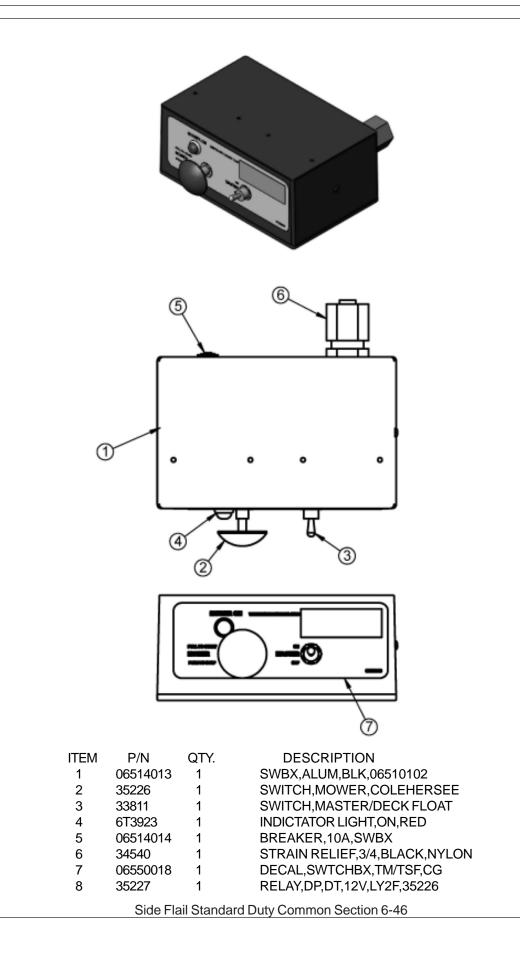
ITEM	PART NO.	QTY.	DESCRIPTION
* 2 3 4 5 6	REF 30531A TF4248 23745 21783 21992	* 1 1 2 2	BONNET (REFER TO HEAD PARTS) BRACKET, TRAVEL LOCK PLATE, TRAVEL LOCK TRAVEL LOCK HOOK CAPSCREW,5/8"x2" NC LOCKWASHER, 5/8"
7 8	21775 TF4250	2 1	HEX NUT, 5/8" NC PIN, TRAVEL LOCK

TRAVEL LOCK LIFT BEAM

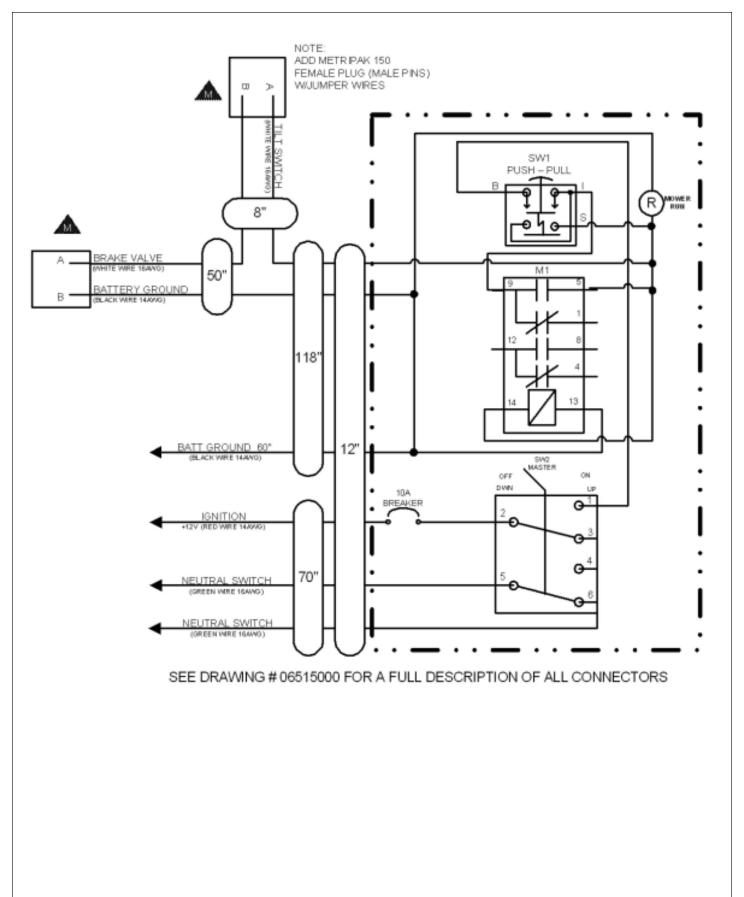


ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0105	1	DRAFT BEAM (STD WITH TRAVEL LOCKS)
2	6T0106	1	TRAVEL LOCK BRACKET
3	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
4	6T3020	2	R - CLIP 5/32"
5	21833	1	CAPSCREW 3/4" X 2 1/4"
6	21825	1	HEX NUT 3/4"
7	21993	1	LOCK WASHER 3/4"
8	22021	1	FLAT WASHER 3/4"
9	22600	1	TRAVEL LOCK EAR
10	22604	2	PIN HOLDER
11	22601C	1	TRAVEL LOCK ASY
12	*	REF.	MAIN FRAME REFER TO PARTS SECTION

SWITCHBOX SERVICE PARTS



SWITCHBOX SCHEMATIC



Side Flail Standard Duty Common Section 6-48

WARRANTY SECTION

Warranty Section 7-1

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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



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