

SIDE FLAIL ASSEMBLIES

JD 72-7520 CAB

Current as of 04/21/05



PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

Tiger Corporation

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

TO THE OWNER / OPERATOR / DEALER

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

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

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



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









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









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

FORWARD

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

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

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

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

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

•	If unable to correct the problem yourself, contact your local Tiger Dealer after
	gathering:
	Machine model

Serial numberDealer name

• Detailed information about the problem including results of troubleshooting

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

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

MANUFACTURED BY:	DISTRIBUTED BY:		
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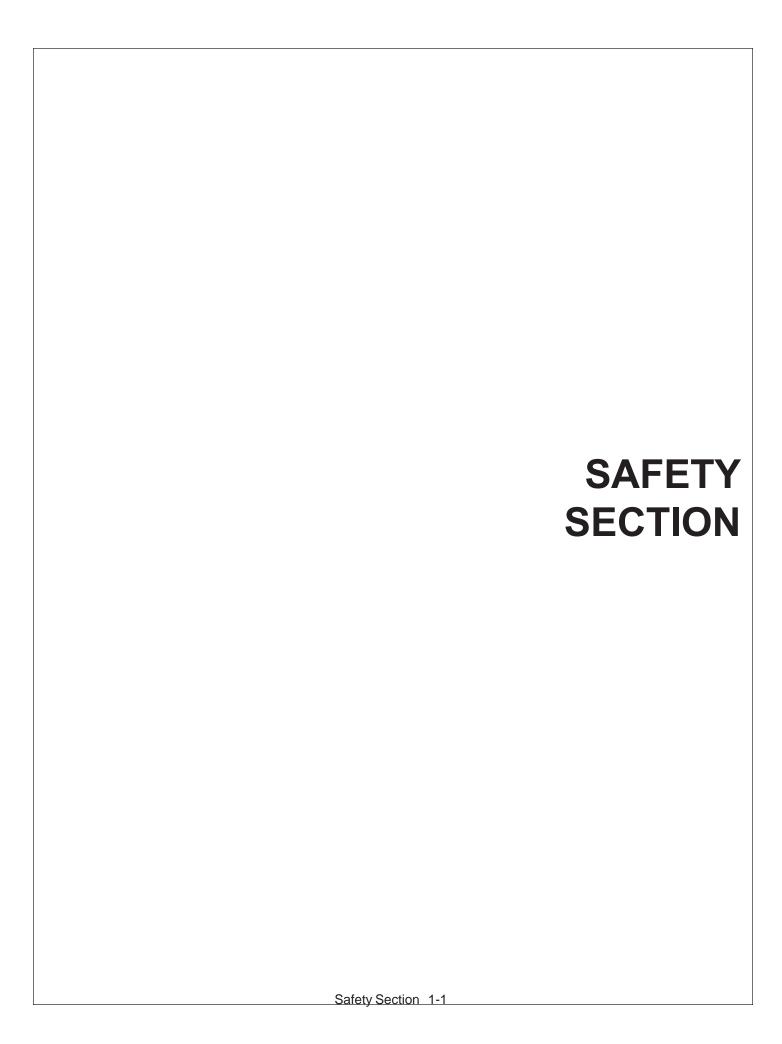


This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.





General Safety Instructions and Practices

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



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

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





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



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



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



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

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

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards. (SG-2)



PELIGRO!



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



i LEA EL INSTRUCTIVO!

DANGER!



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel 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. <u>If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately.</u> (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. $_{\rm (SG-6)}$



WARNING!



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



WARNING!

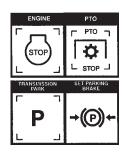


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

DANGER!



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



DANGER!



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

(SG-10)



DANGER!



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

(SG-11)



WARNING!



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



DANGER!



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



DANGER!



Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death. (SG-14)



DANGER!



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



WARNING!



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

(SG-16)







CAUTION!



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



WARNING!



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



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

- Test the tractor at a slow speed and increase the speed slowly.
 Apply the brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this equipment.
- 2. Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that it is safe to operate at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground.



3. 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 T ractor 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)

Safety Section 1-5

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)



WARNING!



Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. 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)



DANGER!



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

(SG-23)

DANGER!



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



DANGER!



Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others. (SG-25)



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)

DANGER!



NEVER use drugs or alcoholimmediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. **NEVER** knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. (SG-27)



DANGER!



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

WARNING!



Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 yards in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see this type of items discontinue mowing. (SGM-1)

DANGER!



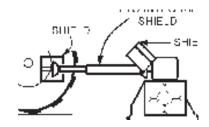
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care is taken to insure the safety of the operator, bystanders, or passersby in the area. Do not operate this machine with anyone in the immediate area. Stop mowing if anyone is within 100 yards of mower. (SFL-1)



DANGER!



All Safety Shields, Guards and Safety devices including (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)



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. $_{\rm (SGM-4)}$

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)

WARNING!



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

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 SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES. (SGM-10)

WARNING!



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

DANGER!



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)



DANGER!



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.



WARNING!



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



WARNING!



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

WARNING!



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

DANGER!



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!



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)



WARNING!



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)

DANGER!



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. ${}_{(S3PT-8)}$



WARNING!



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



WARNING



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

(S3PT-5)

DANGER!



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. (STI-2)

DANGER!



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



DANGER!



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.



WARNING!



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 <a href="mailto:m



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 T ractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the T ractor and Equipment. (SG-18)

PART NO. LOCATION

STANDARD CUT

21405

MOWER DECK

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

P/N22839

22839 MOWER DECK



22840 INSIDE OF CAB

A WARNING

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

24028

24028 MOWER DECK



PART NO. LOCATION

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



42350 MOWER DECK

MOWING SAFETY TIPS

- II.> Read & understand the Operators Manual.
- II. 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.
- IL. Never allow riders on tractor or equipment.
- Only start the tractor from the seat with the key.
- III.> 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.
- H\$\times Never approach rotating elements.
- Disengage the PTO, place transmission in "Park", set perking brake, shut off engine, and remove key and wait until all rotating motion has stopped before leaving seat.



33743 INSIDE OF CAB

PART NO. LOCATION

42399 MOWER DECK



42400 MOWER DECK



6T3217 MOWER DECK



6T3219 INSIDE OF CAB

LUBRICATE PUMP DRIVE SHAFT DAILY, USING HEAVY TYPE GUN GREASE.

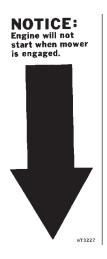
6T3220 FRONT PUMP MOUNT



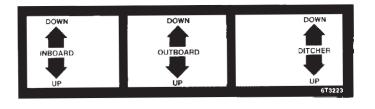
LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. WITH MOWER AND TRACTOR OFF, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING,

NOTE: SEE OPERATORS MANUAL FOR SUBSTITUTE LUBRICANT AND MORE DETAILED INSTRUCTIONS, 6T3221 PART NO. LOCATION

6T3221 INSIDE OF CAB



6T3222 INSIDE OF CAB



6T3223 INSIDE OF CAB



6T3224 MOWER DECK



DO NOT OPERATE THIS EQUIPMENT WITH BYSTANDERS IN THE AREA!

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

6T3230 INSIDE OF CAB

PART NO. **LOCATION**

6T3233 HYDRAULIC TANK

A CAUTION

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

A CAUTION

CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY RESULT FROM IMPROPER MAINTENANCE.

6T3234

6T3234 **INSIDE OF CAB**



6T3236 **MOWER DECK** HYDRAULIC TANK

WARNING

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.

6T3243 **INSIDE OF CAB**

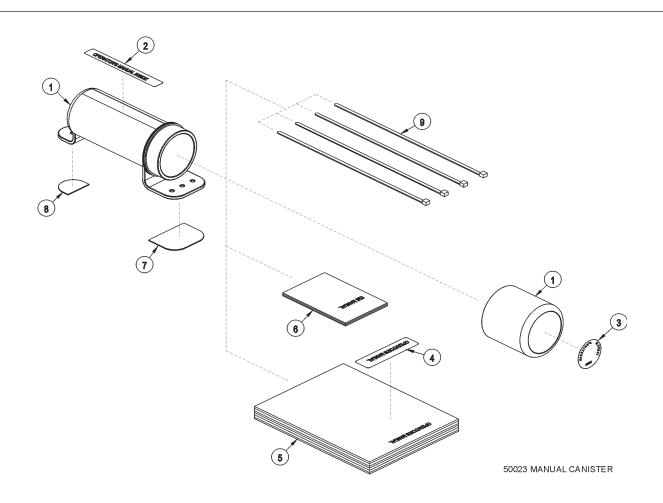


Tiger Corporation

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

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilifuid® 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-29C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobil DTE® 25 Mobil DTE® 16M
Flail Rear Geardox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC* 75W-96, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLG 2 (SO 320	Mobilgrease ⁶ CM-S
Drive Shaft Coupler (Rotary and Flail)	Grease Gun	Lithium Complex, NLG 2 ISO 320	Mobilgrease* CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flati Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease ^b CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Fiall)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease ^b CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220

34852 HYDRAULIC TANK



ITEM	PARTNO.	QTY.	DESCRIPTION
1	50023 00776031 33997	AVAIL 1	MANUAL CANISTER COMPLETE ROUND MANUAL CANISTER DECAL, SHEET, MANUAL CANISTER
2 3	33331	*	DECAL DECAL
4 5	*	* AVAIL	DECAL SPECIFIC PRODUCT MANUAL
6	33753	1	E M I SAFETY MANUAL
7	34296	1	FRONT ADHESIVE PAD
8 9	34297 6T1823	1 4	REAR ADHESIVE PAD 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:

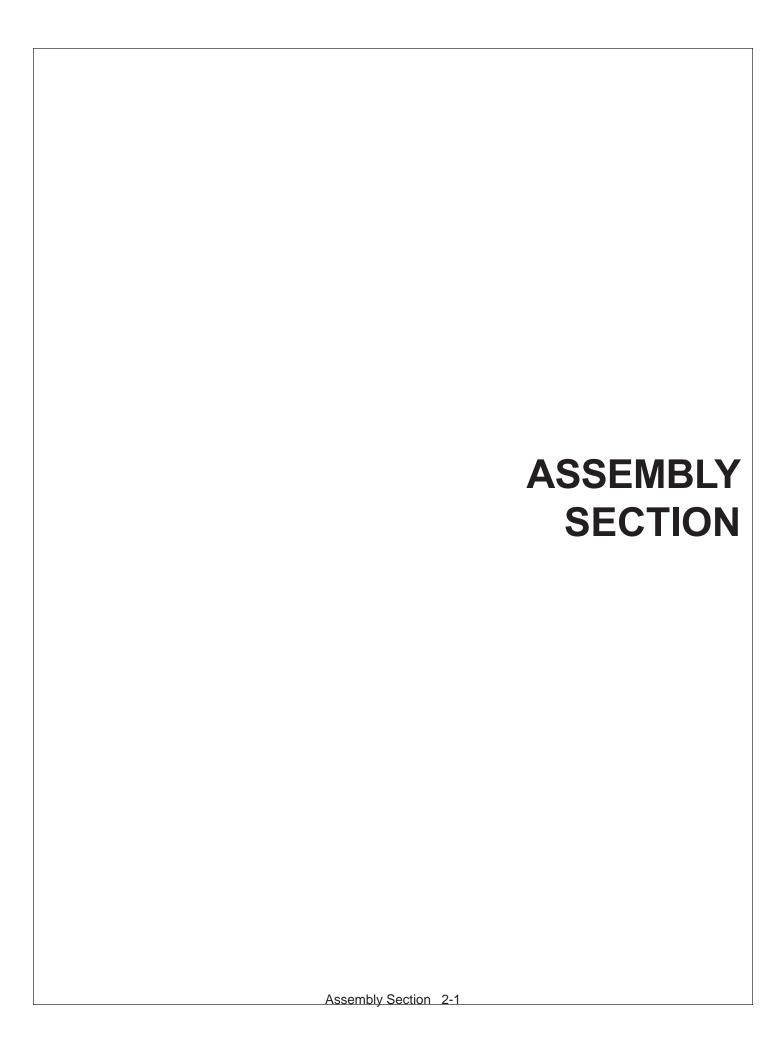
To ensure employee safety during Tractor and Implement operation, it is the employer's responsibility to:

- 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.)





Before attempting to mount your T iger mower, it is important to read an underst and all of the Safety Messages in the Safety section of this manual.

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

WARNING!



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

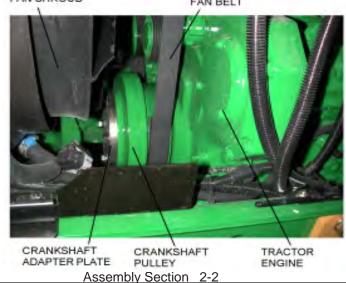
Read and understand the entire assembly section instructions before attempting to mount your Tiger mower. Refer to the parts section of this manual for detailed illustrations to locate all parts.

TRACTOR PREPARATION

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

CRANKSHAFT ADAPTER

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



FRONT CRANKSHAFT PULLEY

John Deere has changed to a <u>new</u> tier two engine on all 6000 series tractors. With the change, Tiger has found that the front crankshaft pulley used by JD will not allow for the installation of a front drive system. With the change on the 6X15 and 6X20 series tractors, you will need to order a different pulley, washer and bolt from John Deere to allow for a front drive to be installed on your tractor.

Inspect the front pulley on your tractor to verify you have the correct pulley needed to mount the spacer plate. If your pulley has the (4) four holes needed to mount the spacer, your pulley is the correct one needed. If your pulley does not have the (4) four holes in the pulley, you will need to order the correct pulley, washer and bolt from John Deere.

PARTS REQUIRED TO PURCHASE FROM JOHN DEERE:

Pulley from JD – R516320 Washer from JD – R517237 Bolt from JD – R516648 Torque on the pulley bolt with locktite is 369 lb-ft.*



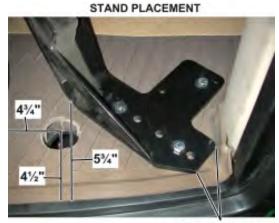
Solution:

- 1. Clean nose of crankshaft using TY16285 clean and cure primer.
- 2. Apply a light 2-3 mm bead of TY15969 retaining compound around the leading edge of the crankshaft nose.
- 3. Dip damper mounting caps crew in clean SAE30 engine oil (Always use a new cap screw)
- 4. Position damper/pulley on the crankshaft and thread cap screw up tight (do not rely on the cap screw to pull the pulley straight onto the taper)
- 5. Tighten cap screw to specification 500Nm (369lb-ft) (the engine will most likely have to be pinned)
- 6. Measure run-out on the pulley, spec is 0.003" or less

CABLE CONTROL LEVER STAND

On the corner cab post, mark a point at 1-3/8" from the windshield and 22 ½" from thefloor; then cut a ¾" diameter hole through the outer plastic shell. This will expose a threaded steel boss to attach the control box support bracket.

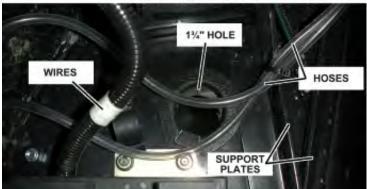
The rear corner of the cable control stand is placed approximately 5 ¾" from the edge of the mat. The front edge of the stand is up against the corner cab post and the door sill lip of the mat. Before you mark or drill any holes, check for support plates or wires under the mat & the cab floor. NOTE: 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



EDGE OF POST / SILL

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

UNDER FLOOR OF CAB



Cut a 1 ¾" hole in the floor to route the cables and wires through. It needs to have a ¼" 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 ½" from the door sill and 4 ¾" 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.

CABLE SWITCH BOX WIRING

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

To run the white wire to the solenoid valve, you will need to drill a hole in the front edge of the cab floor on the right side of the front console. Insert a rubber grommet into the hole to protect the wire, and route the wire out of the cab.

The red wire is to be hooked to the tractor ignition switch or an available slot in the fuse box. 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

The travel lock red wire from the switch box should also run with the white wire through the rubber grommet and be covered with wire wrap. This wire will be connected to the electronic travel lock located on the main boom cylinder. The wires from the switch box are longer than needed and should be carefully cut and spliced as required. Zip ties should be used to secure the wires to the tractor framework and boom hoses to eliminate vibation and rubbing.

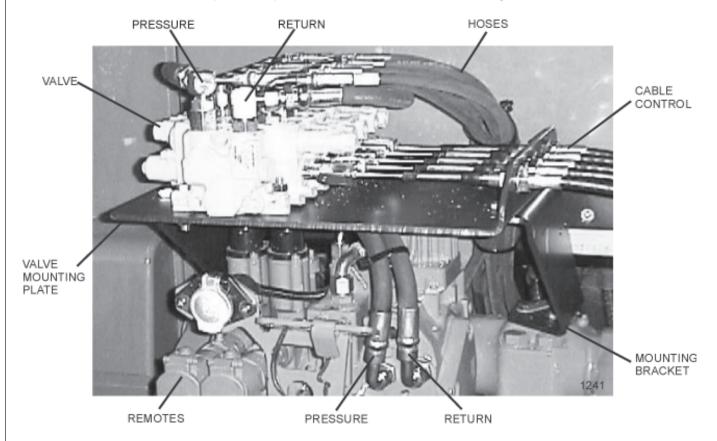
Cut slot in right side panel of steering column to run wires from switch box. NOTE: When cutting or drilling hole, be sure not to damage existing wires running behind panels.



CUT SLOT IN PANEL FOR WIRES FROM SWITCH BOX TO ENTER STEERING COLUMN

CABLE VALVE MOUNTING PLATE (CAB)

Align the mounting bracket to the existing holes on top of the tractor remote valve at the rear of the tractor. Secure the bracket to the tractor with hardware shown in the parts section of the manual. Attach the valve mounting plate to the valve mounting bracket on the rear to the tractor as shown below. Then place and secure the lift valve on top of the mounting plate. Install the control cables and route the hydraulic lines from the lift valve to the hydraulic cylinders as noted on the lift valve page of the parts section.



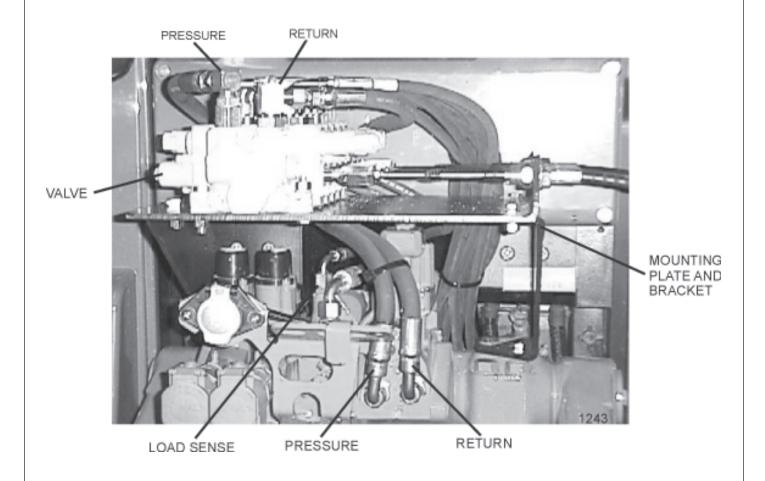
ORIGINAL END CAP

PRESSURE LINE INSTALLATION

The hydraulic pressure line will be plumbed into the rear of the tractor remote valve end cap. Locate the pressure port and remove the plug (refer to the illustration below and the Parts Section pages for position of the pressure port). After the plug is removed then install 22mm adapter. Next connect a 1/2"FJX x 1/2"FJX 90 hose from the tractor remote valve to the Tiger valve.

RETURN LINE INSTALLATION

The return line will be plumed in next to the pressure line in the tractor remote valve end cap. Locate the return port and remove the plug (refer to the illustration below and the Parts Section for the position of the return port). After the plug is removed then install 22mm adapter. Next connect a 1/2"FJX x 1/2"FJX 90 hose from the tractor remote valve to the Tiger valve.



LOAD SENSE LINE INSTALLATION

To install the load sense lines from a Husco valve to the tractor remote valve, first the existing load sense line located on the top of the tractor remote valve connecting "load sense -1" and "load sense -2" must be removed, in order so that the two load sense lines are able to be connected to the Husco valve. Next connect a 1/4" hose (load sense - 1) to the tractor remote valve and to the top front port on the Husco valve. Next connect a 1/4" (load sense - 2) to the tractor remote valve and to the port to the lower right of the "load sense-1" line on the Husco valve.

For more information refer to the Parts Section pages for a complete diagram of the tractor valve hookup.

2004 END CAP UPDATE

PRESSURE LINE INSTALLATION

The hydraulic pressure line will be plumbed into the rear of the tractor remote valve end cap. Locate the pressure port on the end cap and remove the plug (refer to the illustration below and the Parts Section pages for position of the pressure port). After the plug is removed then install 22mm adapter. Next connect a 1/2" hose from the tractor remote valve to the Tiger valve.

RETURN LINE INSTALLATION

The return line will be plumed in next to the pressure line in the tractor remote valve end cap. Locate the return port and remove the plug (refer to the illustration below and the Parts Section for the position of the return port). After the plug is removed then install 22mm adapter or elbow. Next connect a 1/2" hose from the tractor remote valve to the Tiger valve.

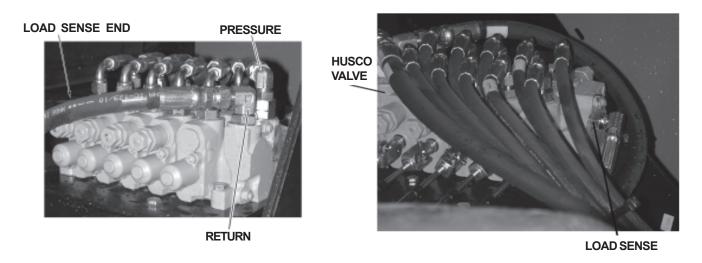


Assembly Section 2-8

HUSCO LOAD SENSE LINE INSTALLATION

To install the load sense line from a Husco valve to the tractor remote valve, first locate the load sense port located on the bottom of the end cap. Remove the plug and install 14mm elbow, then attach the 1/4" hose to the end cap and to the top front port on the Husco valve.

For more information refer to the Parts Section pages for a complete diagram of the tractor valve hookup.



2004 UPDATES APPLY TO THESE MODEL'S

JD6000 SERIES SERIAL #'S WITH THIS CHANGE: 391333, 391640, 392239, 395891, 396190, 397161, 396515, 396572, 396560, 396777, 396754, 396764, 396981, 397327, 396983, 396987, 397165, 397159, 397211, 397773, 397450, 397354, 397341, 397498, 397527, 397520, 397360, 397475, 397538, 397569, 397554, 397545, 397585, 397506, 397570, 397587, 397575, AND MODEL #'S STARTING WITH #398797.

JD7000 SERIES SERIAL#'S WITH THIS CHANGE START AT: 12451

INSTALLING NATIONAL PIPE FITTINGS

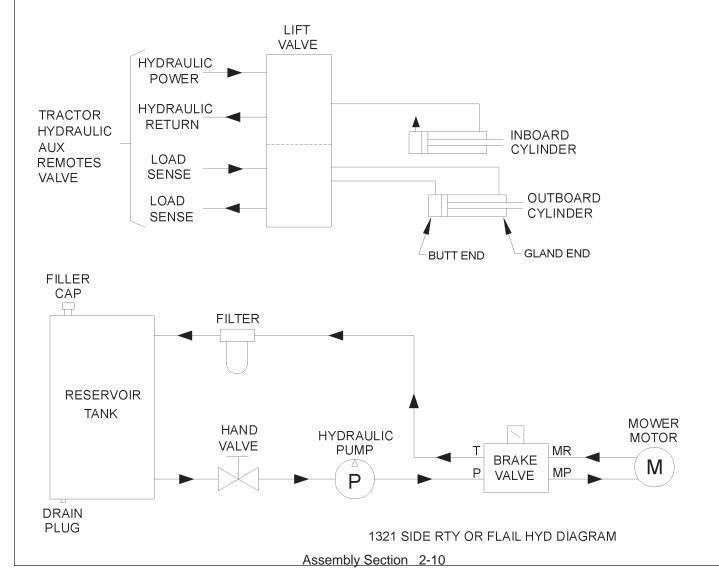
Whenever installing a pipe fitting, wrap the threads clockwise (looking at the end) with teflon tape. In this way, the tape will be tightened when installed. NOTE: It is not necessary to tape O-ring fittings, or those installed in swivels.

INSTALLING O-RING FITTINGS

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

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SIDE ROTARY OR FLAIL HYDRAULIC DIAGRAM



MAIN FRAME MOUNTING

Raise front of tractor as needed and slide the main frame under tractor from right hand side. With an overhead hoist and / or jack-stands, raise the frame up to the correctly matching mounting holes. Install cap-screws and all other hardware as shown in main frame parts section. Remove the cap-screws one at a time and apply a thread locking agent, then reinsert the cap-screws and tighten / torque to values noted in the torque chart located in the maintenance section of this manual.

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.

DRIVESHAFT & FRONT PUMP MOUNTING

Install spacer plate on tractor engine using bolts and lockwashers as shown in parts section. Grease sleeve section of the driveshaft and install from the side of the engine compartment. Once you have the sleeve section in place, bolt to spacer plate using bolts and lockwashers as shown in parts section. Install shaft end of driveshaft through opening and into driveshaft sleeve. Shaft and sleeve yokes should be aligned, if shaft does not insert easily in sleeve, turn shaft 180°, and then install. Align the notchs on the shaft and yoke tube as shown in picture below. **Shaft end must be inst alled in correct orient ation, failure to do so may result in damage to tractor and/or driveshaft t.** After installation of shaft end, install pump mount. Next, install pump. After pump is secured, install driveshaft in to pump shaft. The end of driveshaft should be no more than 1/2" away from contact with pump housing. Tighten crimping bolt on driveshaft. Lube driveshaft & check all hoses, flanges, the pump, pump mount, driveshaft and mounting plate to ensure all fasteners are tightened before operation.

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





COOLER MOUNTING

Refer to the parts section for location of stand, brackets and hardware. The cooler stand is mounted to the fenders and upper cab, using hardware as shown in the parts section. Unbolt the upper rear cab lights and leave lights hang by the wires, **DO NOT CUT THE WIRES**. Assemble mounting brackets to the cooler stand as shown. Raise the cooler stand into position and reinstall bolts in cab light mounting holes. Fully open and close rear cab window to insure clearance between stand and window. Use the bracket as a template to mark location of holes in fender. Drill 3/8" holes and install stand with the hardware as noted in parts section. Reinstall rear lights to the mounting brackets. Remove the two capscrews from each side of the cooler. Mount the cooler between the brackets on the cooler stand using the pre-existing hardware removed from the cooler. Install fittings and run hoses to locations as noted.

GENERAL HOSE INSTALLATION

Refer to the parts section for detailed information about hoses and fittings for this application.

When mounting the suction hose between the pump and the tank, the stainless steel bands that are provided must be used. CAUTION: DO NOT use regular hose clamps for this purpose.

For protection of hoses in contact with metal edges, wrap hoses with spit hose sections and fasten with hose clamps or zip ties as needed.

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the main boom and secondary boom with the new hose cover, secure with string provided. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties. On non cab units the pressure and return hoses from the control valve will also need to be routed inside the protective clear hose wrap. Cover the valve, valve fittings with the new hose cover and secure with string provided.

MOTOR SOLENOID VALVE MOUNTING

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

FILLING HYDRAULIC RESERVOIR

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

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

ADJUSTING REAR WHEELS

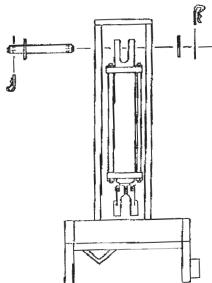
Follow the instructions in the tractor owners manual for adjusting tires and rims. The rear wheels MUST be adjusted to the widest setting. NOTE: This may require switching the wheels to opposite sides of the tractor. Also take note of any width restrictions when transporting by trailer. (For ease of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

CABLE LIFT DRAFT BEAM INSTALLATION

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

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

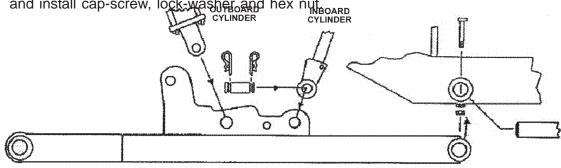
The inboard cylinder can now be installed into the main frame mast with the pin, flat-washers and R-clips as shown below. Use teflon tape on all fitting and hose connections.



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 nutboard



Install the fittings in the butt end of the outboard cylinder, as shown in the commons section. These should be positioned to face the rod end of the cylinder. Next, install the O-ring breather in the rod end of the cylinder.

Install the outboard cylinder in the hole in the draft beam as shown above. Install the pin into the draft beam and cylinder and secure with R-clips.

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.



DECK MOUNTING AND LIFT ASSEMBLY

Install the upper sheave bracket on the outboard cylinder and tighten securely against piston rod shoulder. Tighten the set screw, and align the draft beam.

Install the lower sheave bracket on the draft beam with a $\frac{3}{4}$ " cap-screw and two hex nuts as shown in the diagram on the next page.

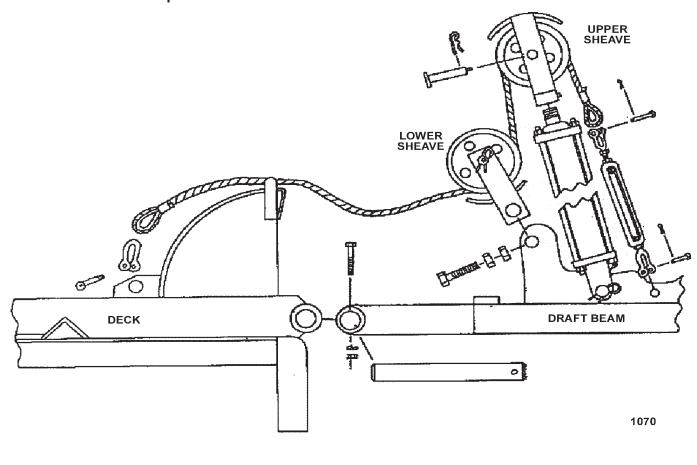
Align the deck with the draft beam mounting hole and install the outer draft beam pin. Align the holes in the draft beam pin with the holes in the boss and secure with cap-screw, lock-washer and hex nut.

Pass the lift cable through upper sheave bracket and attach to turn buckle with turn buckle pin and cotter key. Attach turn buckle to draft beam with turn buckle pin and cotter key.

Place the cable in the upper sheave bracket with the cable on top of the wheel. Secure wheel with sheave pin (with grease zerk) and R-clip. Place lift cable in lower sheave below the wheel and install sheave with pin (with grease zerk) and R-clip. Then install the

The cable can now be attached to the deck mounting bracket with the shackle. Tighten shackle pin securely. **NOTE: DO NOT tighten the turn buckle at this time!**

Refer to the commons section for further reference and part numbers.



LIFT CONTROL FEEDLINES

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

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

Install a hose form the upper or outer valve port to the restrictor on the outboard cylinder butt. Use teflon tape on all fitting and hose connections.

DECK / MOTOR FEEDLINE

Install the hose with the 90 degree #20 flange on one end between the front side of the motor to the bottom of the solenoid valve. Secure to motor with #20 flange kit.

Install the #20 flange adapter block to the back side of the motor and install swivel fittings. Install the hose from the fittings on the back of the motor to the top of the solenoid valve. Install split hoses around hydraulic hoses where they contact the edge of the head, or any other edges that may rub hoses.

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the maintenance section.

Re-check all fittings for tightness 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 ¾ stroke repeatedly to clear the lines of air. **DO NOT** run outboard cylinder out to full stroke until turnbuckle has been adjusted!

Check for oil leaks at all fittings and connections using a piece of paper or cardboard. **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.

TURNBUCKLE ADJUSTMENT

Extend the outboard cylinder until the deck touches the stop on the draft beam. Hold the deck in this position to adjust the lift cable tension. Adjust turn buckle until cable is tight.

Lower and raise the deck to check adjustment. The mower deck should reach it's stop on the draft beam at the same time the outboard cylinder reaches it's extreme extended position.

Finally tighten the turn buckle lock nuts securely. It will be necessary to readjust the turn buckle after the cable has stretched from use.

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 cont act your dealer or the address on the front of this manual for assistance!

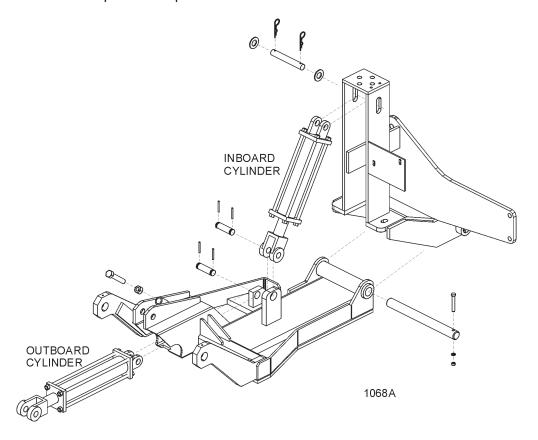
COMBO LIFT DRAFT BEAM INSTALLATION

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

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

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

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



DRAFT BEAM MOUNTING

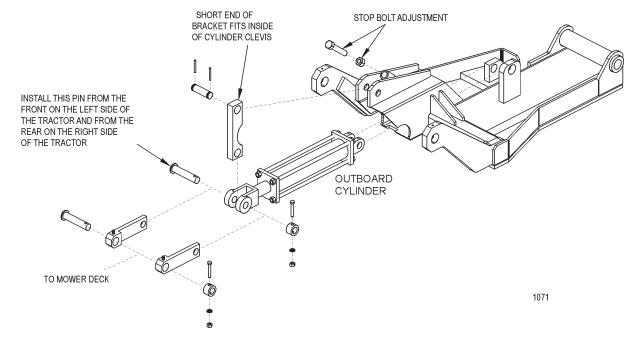
Pull the inboard cylinder piston rod down to the extreme extended position. Slide the draft beam under the cylinder, and align clevis hole with draft beam hole nearest to the tractor. Install pin and secure with rollplins.

Using inboard cylinder as a pivot point, slide draft beam under tractor and install draft beam pin. Align hole in draft beam pin with holes in main frame boss and install cap-screw, lock-washer and hex nut.

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.

LIFT CONTROL FEEDLINES

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

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

Install a hose form the upper or outer valve port to the restrictor on the outboard cylinder butt. Use teflon tape on all fitting and hose connections.

DECK / MOTOR FEEDLINE

Install the 1" hose with the 90 degree flange on the front side of the motor to the inside upper oil port 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 inside lower oil port of the solenoid valve.

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

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the maintenance section. Re-check all fittings for tightness 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 ¾ stroke repeatedly to clear the lines of air. **DO NOT** run outboard cylinder out to full stroke until stop bolt has been adjusted!

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

Raise the three point hitch and check the tractor internal hydraulics, fill to proper level if needed.

STOP BOLT ADJUSTMENT

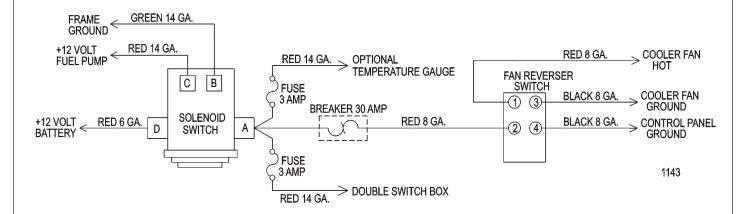
Extend the outboard cylinder all the way out. Adjust the stop adjustment bolt (located on the top of the draft beam) out until it is up against the bonnet. Lock the bolt down with the 3/4" hex nut.

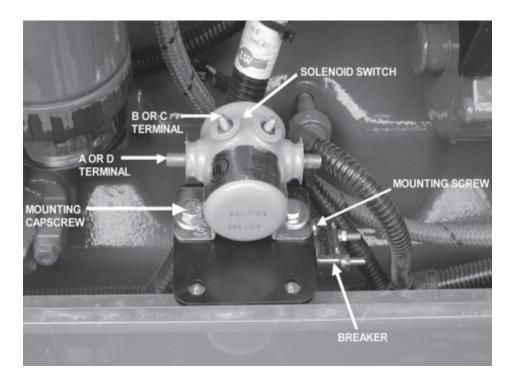
NOTE: When the outboard cylinder is fully extended, the bonnet or deck should either be up against the stop or if travel locks are installed, it should be up against the travel lock. It may be necessary to use either external or internal slugs on the cylinder to get the correct stroke. If the cutter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

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 terminal on fuel pump.
- C.) GREEN 14 GA. wire from terminal (B) to negative ground.
- D.) RED 8 GA. wire from terminal (A) to 30 AMP breaker.
- 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 on cooler fan.
- I). BLACK 8 GA. wire from terminal (3) to ground on cooler fan.
- J.) BLACK 8 GA. wire form terminal (4) to control panel ground.





FINAL PREPARATION FOR OPERATION

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

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



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

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

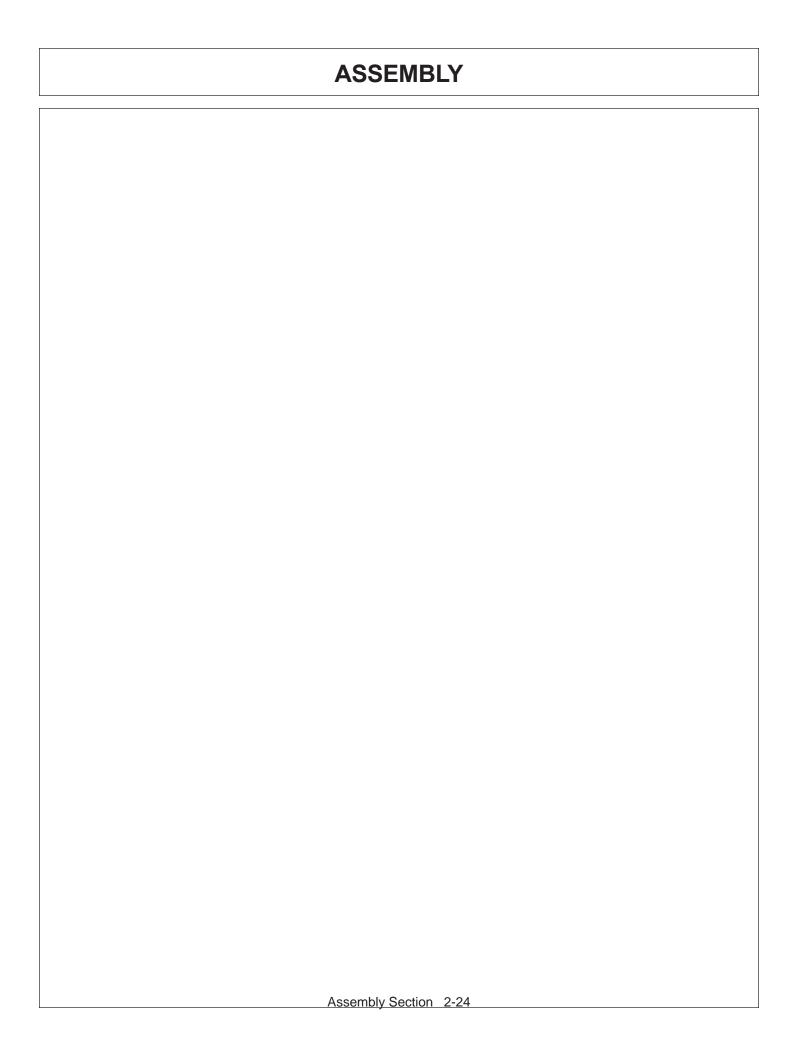
If a leak is found, you must shut down the tractor, set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

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

MOWER TESTING

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

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





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.



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



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



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



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

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



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.



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.



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.

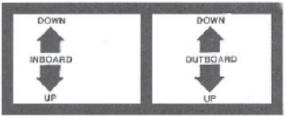
WARNING!



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.



1059 A

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

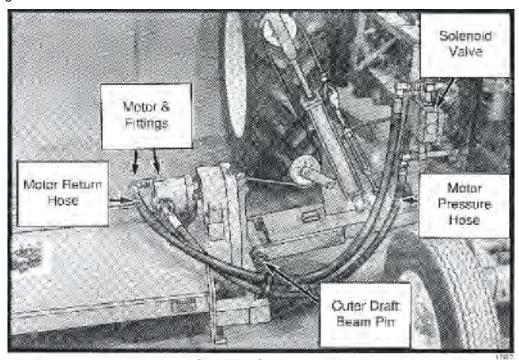
Transporting under the units own power:

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:

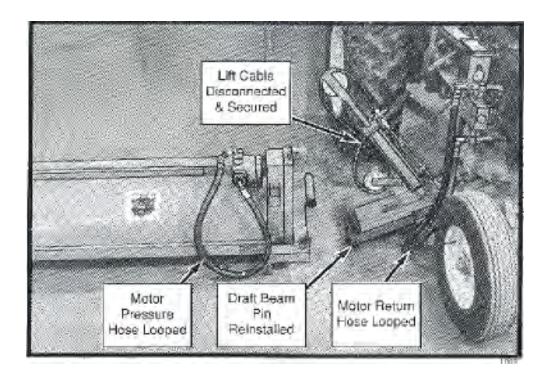
Most tractors with a side mounted mower head attached will be over legal transporting width (102" wide). For this reason, one of the following procedures must be followed.

- 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.



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!

OPERATION			
INSPECTION SHEETS			
Operation Section 3-8			

Flail Mower PRE-OPERATION Inspection

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Tractor ID#	Make	
Date:	Shift	



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.

ltem	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

	e	

Tractor ID#	Make
Date:	Shift



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.

ltem	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#
Date:

Mower ID#	Make
Date:	Shift



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

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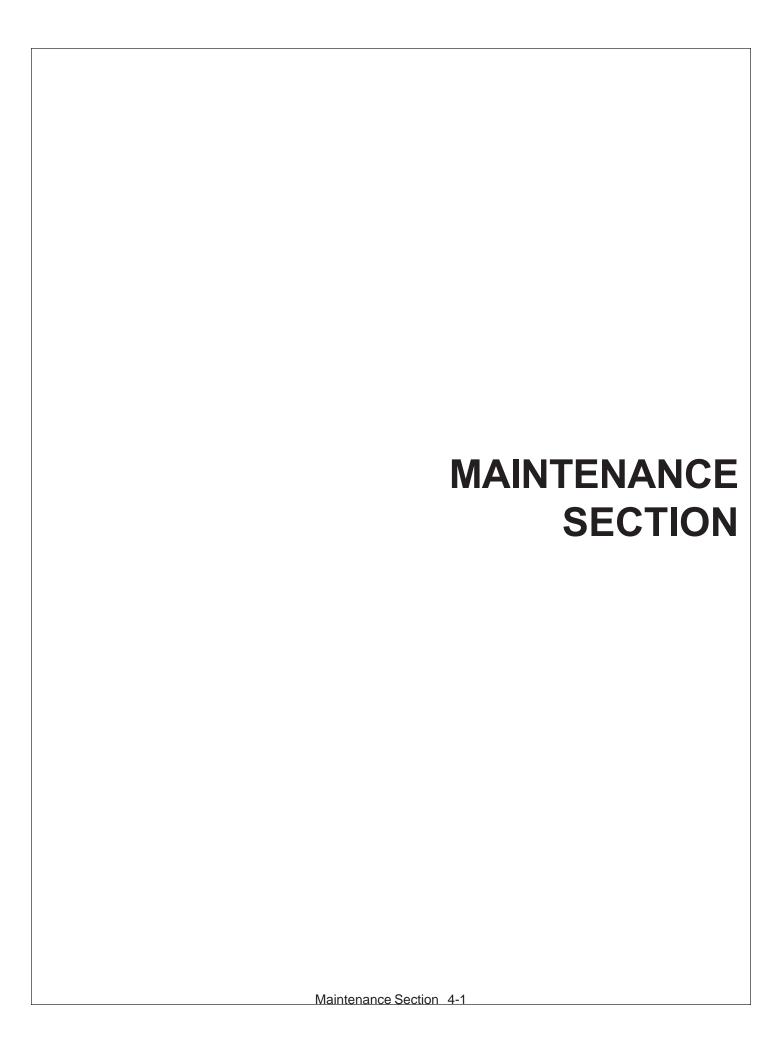
Tractor ID#	Make
Date:	Shift



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		

DO NOT OPERATE an UNSAFE TRACTOR or FRONT END LOADER



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.
- Release of energy from pressurized systems may cause inadvertent actuation of cylinders, or sudden release of compressed springs. Before disconnecting any hoses relieve pressure by shutting tractor off, setting cutter on ground and actuating lift valve handles.



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

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.

DAILY OR EVERY 8 HOURS

Drive Shaft Yoke, U-Joint & Stub Shaft Pump Drive Shaft	Grease	Grease as instructed in detailed maint. section
Pump Drive Shaft		
	Check and Lube	Insure drive shaft end play
Crankshaft Adapter	Check rubber grommets	Replace grommets if damaged or missing
Pivot Points	Lubricate	Inject grease until it appears at ends
Hydraulic Fittings	Check for leaks	Tighten when needed. Do Not use hands to check for leaks, see maint. Precautions
Knives	Check	Inspect for missing or damaged knives, change or sharpen as needed
Cutter shaft mounting bolts (cutter shaft to deck)	Check	1/2" x 2" torque to 84 ft. lbs.
Knife mounting bolts (knife to cutter shaft)	Check	Retorque to knife replacement specifications
Belts	Check / Adjust	Check if broken, tighten as required
Main Frame and Deck	Check	Retorque bolts to torque specifications in this section
Hydraulic Fluid Level	Check	Add if required per fluid recommendations
Rear Flail Drive (if applicable) Bearing Flange and Shaft Coupler	Lubricate	Grease as instructed in detailed maint. section
Cutter Shaft and Ground Roller	Lubricate	Grease as instructed in detailed maint. section

WEEKLY OR EVERY 50 HOURS

ITEM SERVICE COMMENTS

In Tank Hyd. Fluid

Filter

(10 micron filter)

In-Line High Pressure

Filter

(10 micron filter)

Change Change after

Change after first 50 hours only, then every 500 hours or yearly

oco nodio oi yodiiy

Change after first 50 hours only, then every 500 hours or yearly

MONTHLY OR EVERY 150 HOURS

Hydraulic Fluid Level Check Add as needed

Hyd. Tank Breather Clean / Check / Replace Clean or replace

Element as required

Rear Tire Type
480/80R38
Max P.S.I.
29

Change

18.4-34 26 18.4-38 26

Change

YEARLY OR EVERY 500 HOURS

Hyd. Tank Fluid Change

In Tank Hyd. Fluid

Filter

(10 micron filter)

In-Line High Pressure

Filter

(10 micron filter)

micron filtor)

Change or

Change when indicated

by restriction indicator.

Hyd. Tank Breather Change

TROUBLE SHOOTING

SYMPTOMS CAUSE REMEDY

Vibration 1. Loose bolts 1. Check all bolts and tighten to torque specs. in this section.

2. Cutter assembly 2a. Check for damaged blades, disc. Unbalanced or cutter shaft. Replace if needed.

2b. Check for wire, rope, etc. entangled

in cutter assembly

Mower will not lift 1. Hyd. Fluid low 1. Check and refill Hyd. Fluid

Leaks in lineTighten or replace fittings and hoses

 Faulty relief valve 3. Check pressure in line. Line in Control Valve pressure should be at least 2500 PSI

4. Kinked or blocked 4. Clean or replace lines

5. Faulty cylinder 5. Inspect, repair or replace cylinder

Maintenance Section 4-4

SYMPTOMS	(CAUSE		REMEDY
Mower will not start or run	1.	Blown fuse	1.	Check fuse between mower switch and ignition / replace
0	2.	Ball valves closed	12.	
	3.		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
above 200 deg. F	2.	Kinked or blocked	12.	Inspect, Repair, or Replace hoses
		Worn pump/moto		·
Mower 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.
				Clean parts or replace if scratched.
Motor runs but	1.	Belts	1.	-1
will not cut.	0	T	0	belts and repair as needed.
	2.	Tensioner	2.	Adjust tensioner nut until flat washer
Matantonia	_	01	4	washer is flush with top of guide.
Motor turns slowly	1.		1.	Remove large nut on side of large
or not at all.		restricting spool movement in		valve block. Remove spring, and use needle nose vise grip to pull spool
		valve body.		from block. Check block and spool
		vaive body.		for contaminates and scratches.
				Clean parts or replace if scratched.
	2.	Suction lines	2	Check for crimp or obstruction in
	۷.	obstructed	۷.	suction hose
	3.		3	Check Hyd. tank level and fill
Pump will not work	1.		1.	
p	••	on internal parts	••	cassonialo ana lopani
		Maintenance Sect	ion	4-5

Motor will not work

- on internal parts
- 1. Excessive wear 1. Disassemble and repair.

NOTE: If flow meter is available, check pressure and flow volume for all suspected hydraulic problems.

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

TORQUE SPECIFICATIONS

	Torque for Standard Fasteners												
Nominal			\rangle	Grade 2		>	Grade 5			Grade 8			Grade 9
Dia.	per	Tig	htening Ton	que	Tio	htening To	rque	Tia	htening Tor	aue	Tio	htening Tor	que
	inch		Dry Plated		Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain
(in.)		K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20
	Unified Coarse Thread Series												
1/4	20	49 in-lbs	59 in-lbs	66 in-lbs	76 in-lbs	86 in-lbs	101 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs
5/16	18	101	122	135	157	178	209	221	251	295	259	294	346
3/8	16	15 ft-lbs	18 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	128	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	966	1095	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1363	1545	1817	1597	1810	2130
1 1/2	6	652	783	869	1462	1657	1950	2371	2688	3162	2779	3150	3706
							hread Se						
1/4	28	56 in-lbs			87 in-lbs		116 in-lbs					163 in-lbs	
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs		26 ft-lbs	30 ft-lbs	35 ft-lbs	37 ft-lbs	42 ft-lbs	49 ft-lbs	43 ft-lbs	49 ft-lbs	58 ft-lbs
7/16	20	27	32	36	41	47	55	58	66	78	68	78	91
1/2	20	41	49	55	64	72	85	90	102	120	105	120	141
9/16	18	59	71	78	91	103	121	128	146	171	151	171	201
5/8	18	82	99	110	127	144	170	180	204	240	211	239	281
3/4	16	144	173	192	223	253	297	315	357	420	369	418	492
7/8	14	138	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

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

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

D = Nominal Diameter F = Clamp Load

			Torqu	e-Tens	ion Re	lations	hip for	Metric	Faste	ners			
			Class 4.6			Class 8.8	lass 8.8 Class 10.9 Class 12					s 12.9	
		│	4.6	\triangleright		8.8	>	10.9			12.9		
Nominal	Pitch	Tightening Torque Tigh			htening Tor	ntening Torque Tightening To			rque Tightening Tor		na Torque		
			Dry Plated			Dry Plated			Dry Plated			Dry plain	
Dia.			K = 0.17			K = 0.17			K = 0.17		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	
Clamp lo	ad cal	culated as	75% of th	ne proof lo	ad for spe	ecified bolts K = 0.15 for "lubricated" conditions					D = Nominal Diameter		
All torqu	e value	es are list	ed in foot-	pounds			K = 0.17 for zinc plated, dry conditions				F = Clamp	Load	
Torque values calculated from formula T=KDF, where							K = 0.20 f	or plain a	nd dry con	ditions			

^{*} 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	Mobil DTE 15M Mobilfluid 424
		FNH M2C134D (FNH201)	
Normal Temperatures 15 F Start-Up High Operating Temp. Above 90 F		ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE 25 Mobil DTE 18M
Flail Rear Gearbox	Grease	PAO Synthetic Extreme Pressure Gear Lube	Mobil SHC 75W-90 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 NLGI2 - ISO 320	5
Drive Shaft Yoke, U-Joint & Stub Shaft	Grease Gun	Lithium-Complex Extreme Pressure NLGI2 - ISO 320	Mobilgrease CM-S
Boom Swivel	Grease	Lithium-Complex	Mobilgrease CM-S
Boom Cylinder Pivots (Rotary & Flail Boom)	Gun	Extreme pressure NLGI2 - ISO 320	
Deck Boom Pivot &	Grease	Lithium-Complex	Mobilgrease CM-S
Deck Stop Adjustment (Rotary & Flail)	Gun	Extreme pressure NLGI 2 - ISO 320	
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant part number 06540000	Mobilith SHC 220

POLYCARBONATE CARE & MAINTENANCE

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

CLEANING THE SUPERCOAT™ HARD-COAT

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

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

Aqueous Solutions of Soaps and Detergents

Windex¹ Top Job² Joy² Mr. Clean² Fantastik³ Formula 409⁴ Sumalight D12 Brucodecid

Organic Solvents

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

Neleco-Placer Turco 5042

Alcohols

Methanol Isopropyl

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

GRAFFITI REMOVAL

Butyl cellosolve (for removal 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.

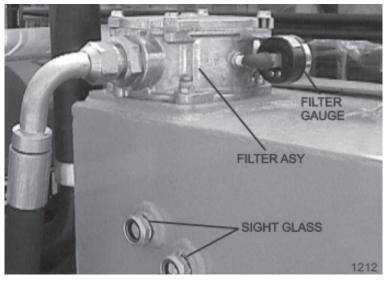
IMPORTANT: If a material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be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

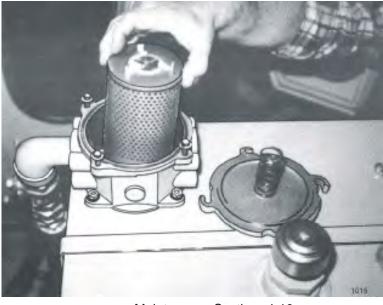
breather.



DETAILED MAINTENANCE

REPLACING IN-TANK HYDRAULIC FILTER:

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

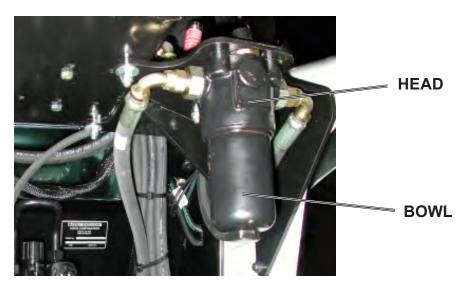


Maintenance Section 4-10

DETAILED MAINTENANCE

REPLACING 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.

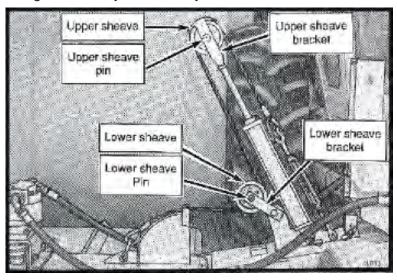


GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

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.

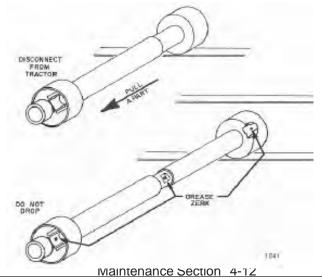
GREASING THE UPPER AND LOWER SHEAVES

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.



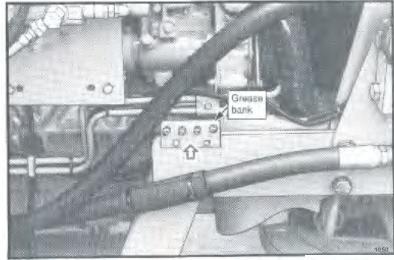
GREASING P.T.O. SHAFTS

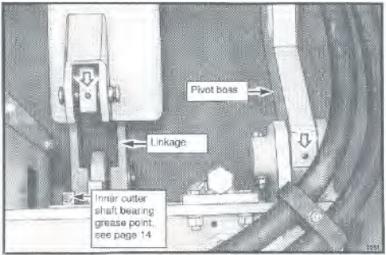
After bringing the tractor to a complete stop, shut off the engine and remove the P.T.O. shaft from the tractor. Slide the shaft apart to expose the grease zerk. Grease the shaft with 5 pumps of grease and the U-joints until grease protrudes from caps per the scheduled interval in the maintenance section.

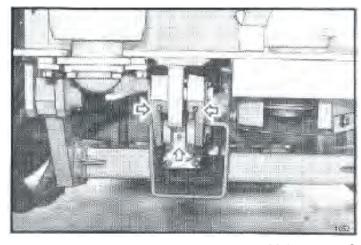


GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

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



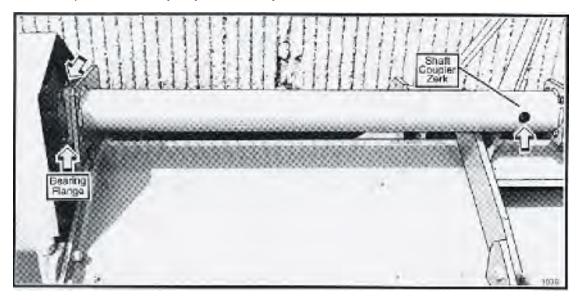




With the cutter head lowered, locate the grease zerks on the linkage and pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until it protrudes from the ends. With the cutter head in this position it is also possible to grease the draft beam cylinder 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.

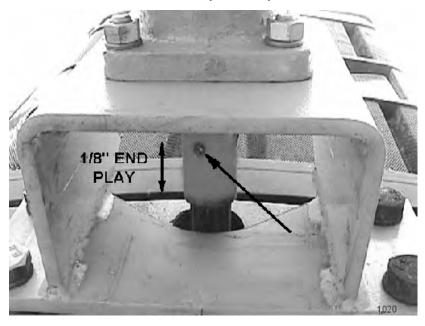
GREASING THE REAR DRIVE BEARING AND EXTENSION COUPLER SHAFT

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

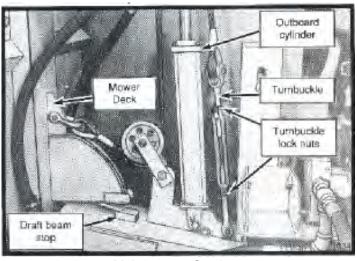
With engine stopped, inject Lithium-Complex extreme pressure grease conforming to NLGI2-ISO 320 specifications into universal joints and slip yoke untill grease appears at the seal. Grease them daily or every 8 hours.





ADJUSTING THE CABLE LIFT

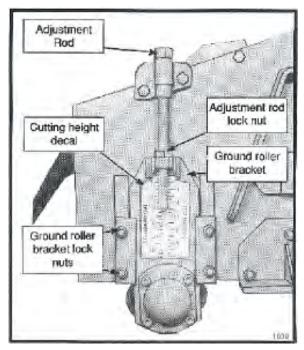
Extend the outboard cylinder until the mower deck touches its stop on the draft beam as shown. NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop. Now hold the head against the stop and tighten the turnbuckle until the cable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

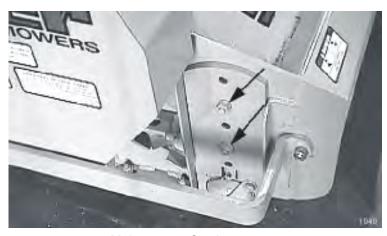
ADJUSTING THE CUTTING HEIGHT

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

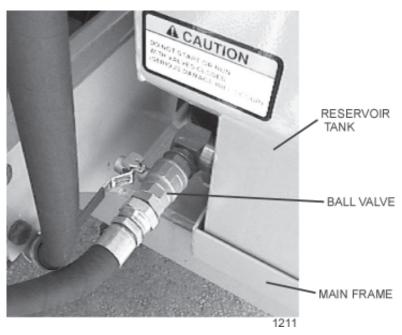
To adjust the cutting height of the standard duty flail head the two nuts on the roller shaft brackets must be taken off and moved to the desired location / height. See diagram below. Be sure that both sides of the shaft are adjusted to corresponding holes so the shaft remains level.



Maintenance Section 4-16

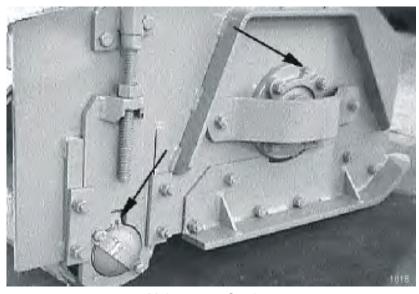
BALL VALVES

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 TRACT OR 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

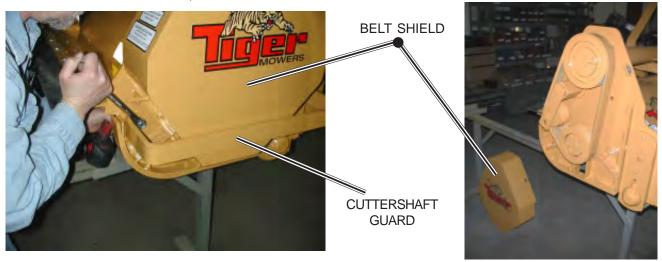
Locate grease zerks on each end of cutter shaft(s), these are located on the bearing cover. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at 8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



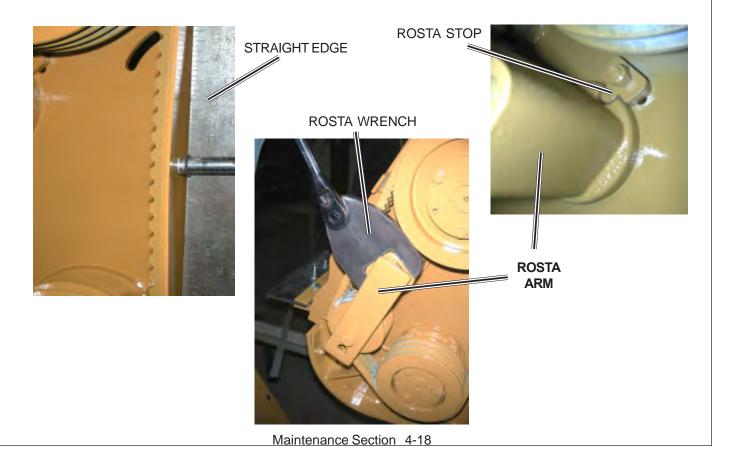
Maintenance Section 4-17

ROSTA TENSIONER

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



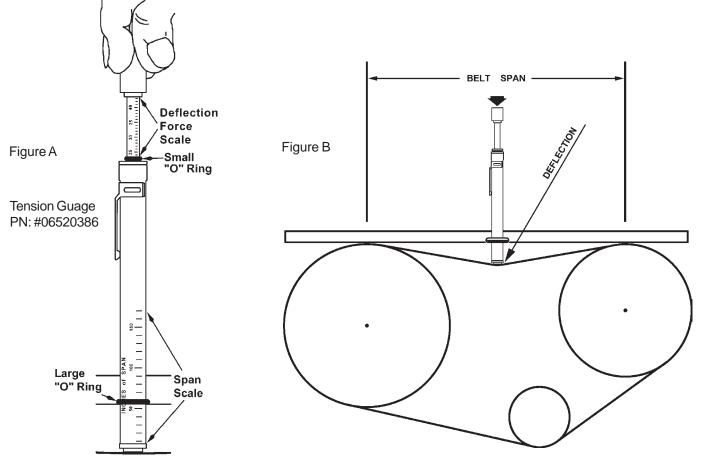
Place a straight edge over both sheaves and measure the belt tension(See TENSIONER MEASUREMENT PROCEDURE). To adjust the Rosta Tensioner, first, loosen the Rosta Stop and Rosta bolt that secures the Rosta to the flail. Next use the Wrench (PN# 06401023 available) to adjust the tension of the belt. After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



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.

Deflection Force Values - Standard Duty New Belt: 20 to 25 pounds Used Belt: 12 to 20 pounds

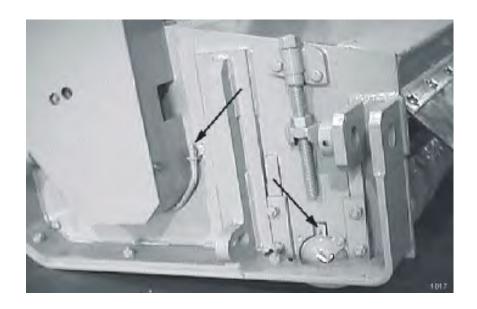


Maintenance Section 4-19

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.

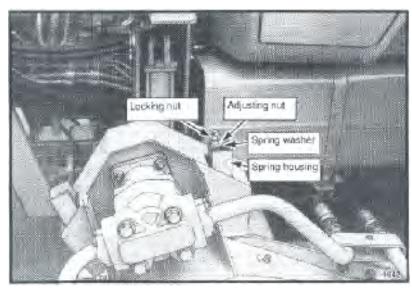


GREASING THE IDLER TENSION ARMS

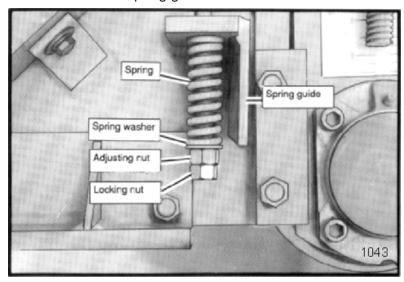
Locate the access holes and grease zerks in the belt shields of the side and rear flails. Normal conditions require one pump daily or every 8 hours of service with multi purpose grease.

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.



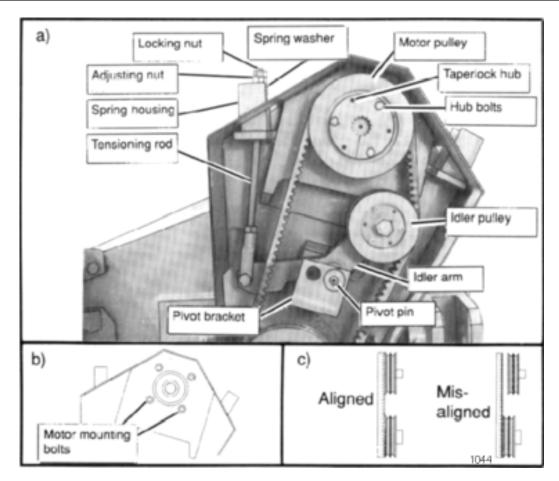
For standard cut on the mechanically driven rear flail mower, adjust so that the spring washer is flush with the spring guide as shown below.



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.

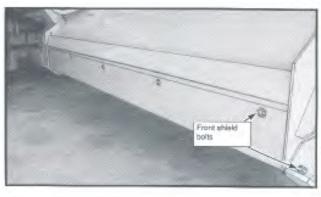
Now disconnect the hoses and fittings from the motor and remove the taper-lock hub and pulley from the motor by removing the three hub bolts from the existing positions and inserting simultaneously into the threaded holes. Remove the four bolts holding the motor. Rotate the motor 180° so the hump is 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.

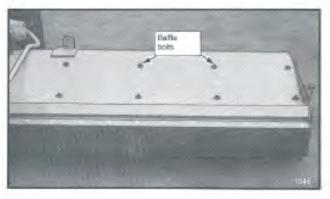
Reinstall the taper-lock hub and pulley on the motor by installing the hub bolts in the original holes and tightening until the hub just contacts the pulley. Then, position the pulley on the motor shaft approximately 3/16" beyond the idler pulley and tighten and torque the hub bolts to 18 ft. lbs. Be 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.

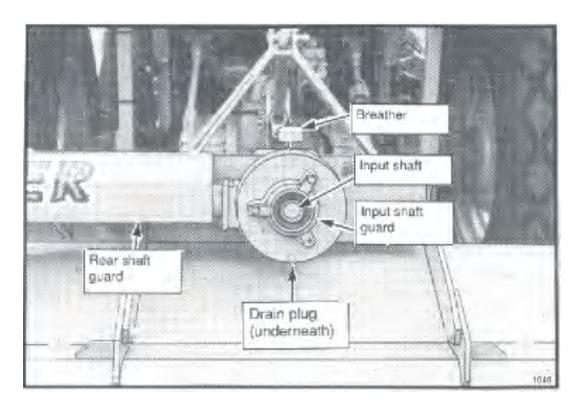
Switch the top breather vent plug with the drain plug on the bottom. Remove the input shaft guard. The input shaft must be pressed through or turned around so the rear extension is equal to what the original front dimension was. Turn the gear box 180° and install on the flail frame so the chain coupling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

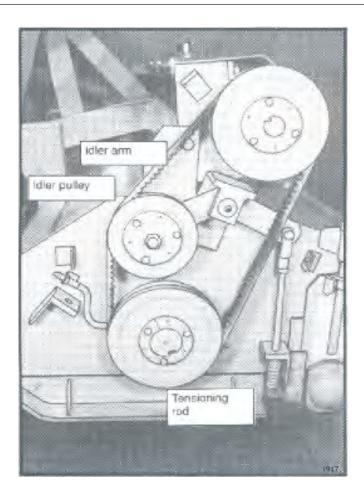


Remove the belt shield. Then remove the adjusting nuts, washer and spring from the idler tensioning rod. Remove the clevis rod and small bushing from the idler arm. Remove the idler arm with the pulley attached. Remove the idler pulley from the idler arm and install the pulley on the other end of the 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.



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.



Knives should not 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.



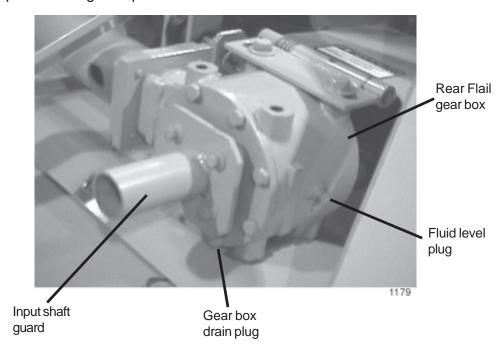
Knives should not be welded on for any reason.

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 maintenance section.
	Cutter Shaft and Ground Roller: Grease as instructed in the detailed maintenance section
Service Meter:	performed by: Date:/ Hour

Maintenance Section

** This page may be copied and used as part of the daily maintenance routine.

Maintenance Section 4-28

72-7520 SIDE	E FLAIL, CAB	, 2WD, 4WD	
		SE	PARTS CTION
	Parts Section 5-1		

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

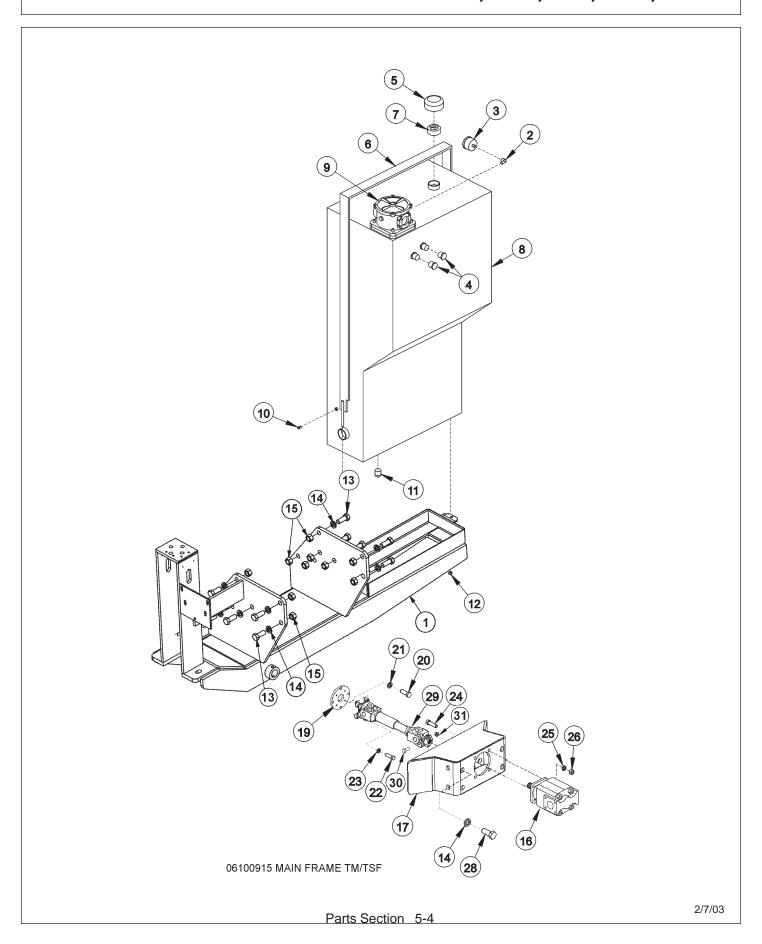
3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

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5-7-02

TRACTOR MOUNT KIT - MAIN FRAME, CAB, W/C, 2WD, 4WD

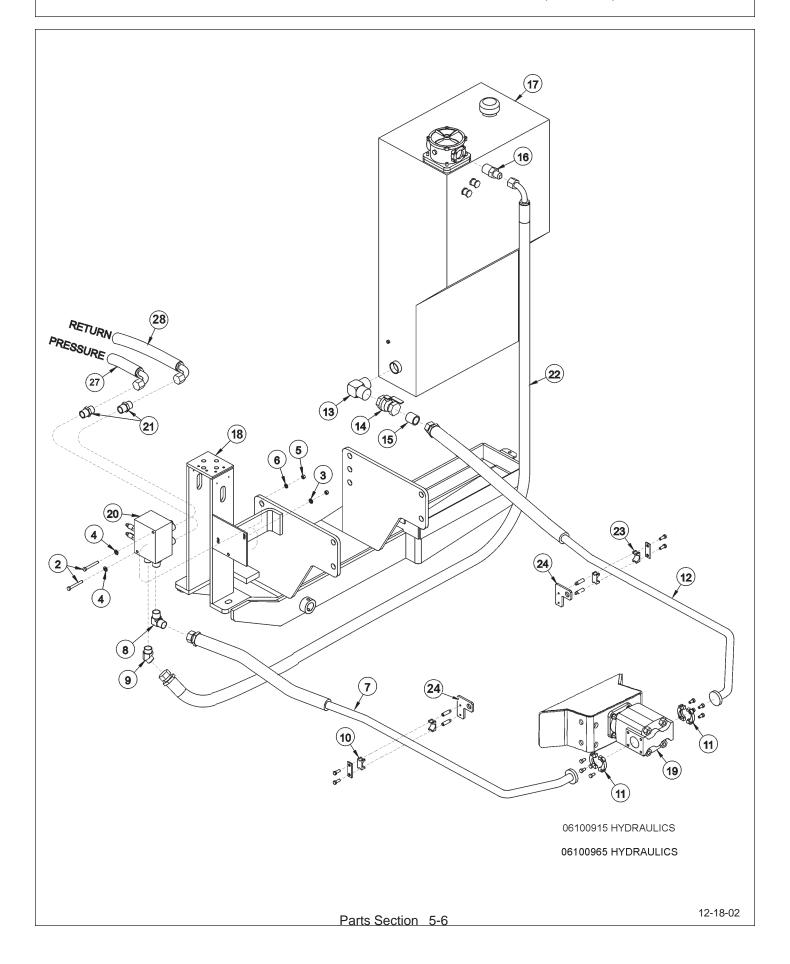


TRACTOR MOUNT KIT - MAIN FRAME, CAB, W/C, 2WD, 4WD

ITEM	PART NO.	QTY	DESCRIPTION
1	34801	1	MAIN FRAME
2	TF4888	1	STREET ELBOW
3	6T0649	1	FILTER GAUGE
4	6T1209	2	TANK SIGHT GLASS
5	31004	1	PRESSURE CAP
6	28191B	1	TANK STRAP
	34169	AVAIL.	RESERVOIR TANK ASSY.
7	33700	1	REDUCER BUSHING
8	28192D	1	HYDRAULIC RESERVOIR TANK
9	34066	1	IN-TANK FILTER ASSEMBLY
10	6T4197	1	PIPE PLUG - 1/8"
11	6T4200	1	PIPE PLUG - 3/4"
12	21677	2	NYLOCK NUT - 7/16" NC
13	31731	14	CAPSCREW - 20MM X 50MM
14	24881	4	LOCKWASHER - 20MM
15	31722	12	HEX NUT - 20MM
16	23152	1	PUMP
17	34993	1	PUMP MOUNTING BRACKET
19	34998	1	DRIVESHAFT SPACER
20	23113	4	CAPSCREW - 10MMx30MM
21	32691	4	LOCKWASHER - 10MM
22	21680	4	CAPSCREW - 7/16" X 1 1/4" NC
23	21989	4	LOCKWASHER - 716"
24	21732	4	CAPSCREW - 1/2" X 1-3/4" NC
25	21990	4	LOCKWASHER - 1/2"
26	21725	4	HEX NUT - 1/2"
28	24860	4	CAPSCREW - 20MM X 40MM
29	34999	1	DRIVE SHAFT, U JOINT
30	21658	1	CAPSCREW 7/16" x 2"
31	34848	1	NYLOCK NUT 7/16" NF

2/7/03

TRACTOR MOUNT KIT - HYDRAULICS, 2WD, 4WD



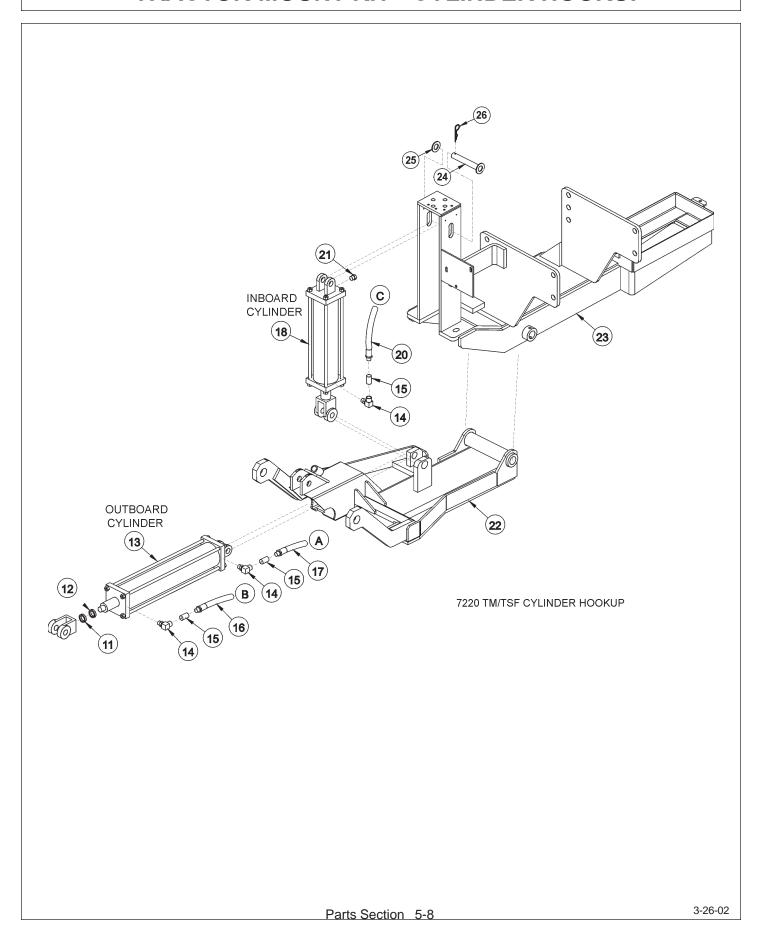
TRACTOR MOUNT KIT - HYDRAULICS, 2WD, 4WD

ITEM	PARTNO.	QTY.	DESCRIPTION
1	*	REF	MAIN FRAME - REFER TO MAIN FRAME PARTS
2	21644	2	CAPSCREW - 3/8" X 5"
3	6T2665	1	STAR LOCKWASHER - 3/8"
4	22016	2	FLATWASHER - 3/8"
5	21625	2	HEX NUT - 3/8" NC
6	21988	1	LOCKWASHER - 3/8"
7	06506000	1	HOSE/TUBE - 1" X 75"
8	34117	1	ELBOW 1"MORB X 1"MORB90
9	33554	1	ELBOW 1"MORB X MJIC45
10	34076	1	CLAMP KIT - 1"
11	TF4852	2	FLANGE KIT - #20
12	06506001	1	HOSE/TUBE - 1-1/4" X 71
13	34068	1	ELBOW 1/2 X 1-1/4"
14	34069	1	BALL VALVE - 1-1/4"
15	34067	2	NIPPLE - 1-1/4" X 1-1/4"
16	34064	1	ADAPTER - 1-1/4" X 1"
17	*	REF	HYDRAULICTANK - REFER TO MAIN FRAME PARTS
19	*	REF	PUMP - REFER TO MAIN FRAME PARTS
20	*	REF	SOLENOID - REFER TO SOLENOID PARTS
21	33555	2	ADAPTER 1"MORB X 1"MJIC
22	06500012	1	HOSE - 1" X 90"
23	34075	2	CLAMP KIT - 1-1/4"
24	34626	1	TUBE / CLAMP BRACKET
25	24849	2	SPACER, 7/8 ID X 1-1/4 OD X 5/8
26	06503000	1	ADAPTER 10RB X 1-1/4 MJ
27	34162	1	HOSE 1 X 98"
28	34161	1	HOSE-1 X 101"
**	6T3200	8	SPLIT HOSE (NOT SHOWN)
**	6T1823	24	ZIP TIE (NOT SHOWN)
**	6T1822	36	ZIP TIE (NOT SHOWN)

NOTE:Band hoses together with zip ties wherever loose. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties.

12-18-02

TRACTOR MOUNT KIT - CYLINDER HOOKUP

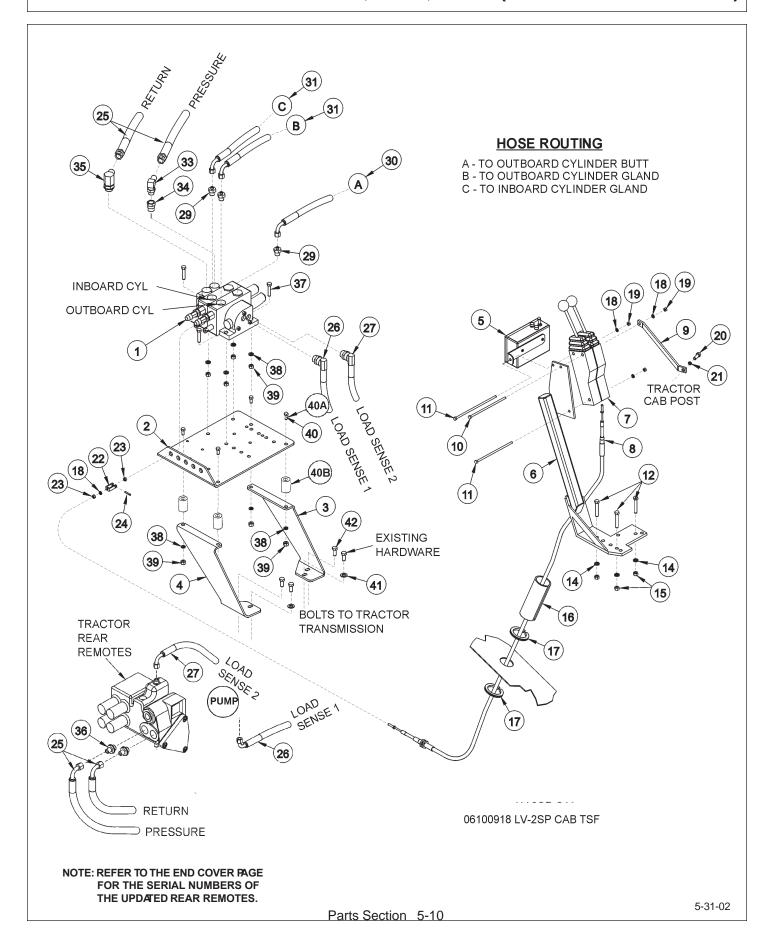


TRACTOR MOUNT KIT - CYLINDER HOOKUP

ITEM	PART NO.	QTY.	DESCRIPTION
11	22076	1	SPACER 1/4" (AS REQUIRED)
12	22077	1	SPACER 5/16" (AS REQUIRED)
13	25343	1	OUTBOARD CYLINDER 3" X 12"
14	34244	3	FITTING 1/2" X 90
15	34396	3	ADAPTER 1/2" ORB X 3/8" MJ
16	*	REF	HOSE - REFER TO COMBO LIFT VALVE
17	*	REF	HOSE - REFER TO COMBE LIFT VAVLE
18	6T0151R	1	INBOARD CYLINDER 3" X 10"
19	31189	1	RESTRICTOR .0625
20	*	1	HOSE - REFER TO COMBO LIFT VALVE
21	6T4258	1	BREATHER 1/2"
22	*	REF	DRAFT BEAM - REFER TO COMMON ASY PARTS
23	*	REF	MAIN FRAME - REFER TO MAIN FRAME PARTS
24	6T3005	1	PIN
25	22023	1	WASHER
26	6T3004	1	R-CLIP

3-26-02

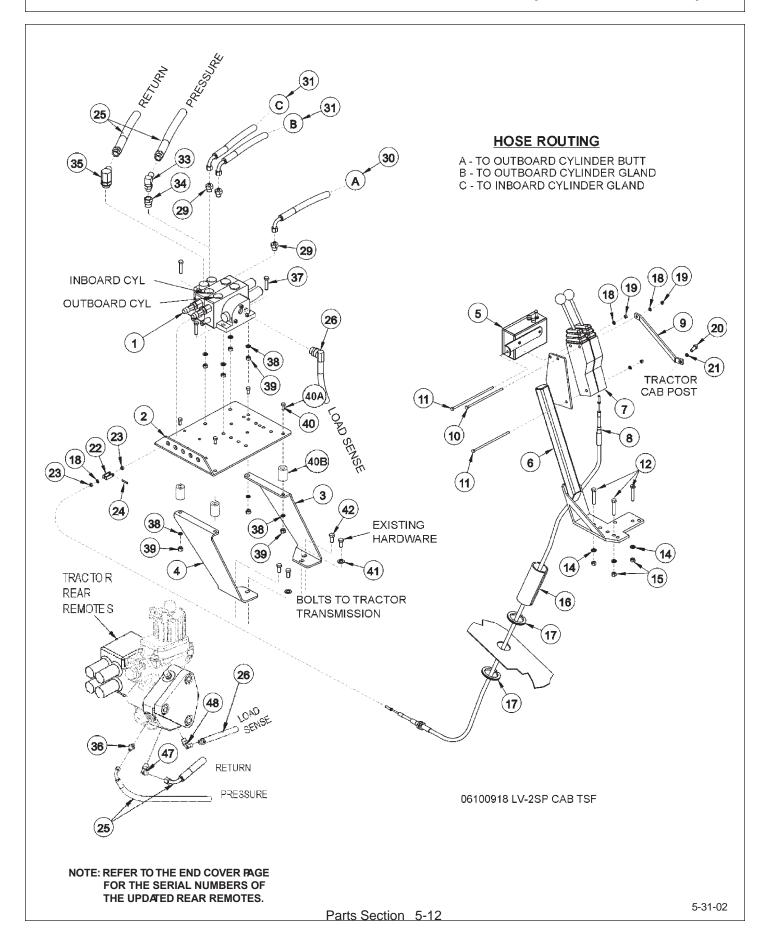
LIFT VALVE - JD 72-7520 TSF, 2 SP, CAB (ORIGINAL REMOTE)



LIFT VALVE - JD 72-7520 TSF, 2 SP, CAB (ORIGINAL REMOTE)

ITEM	PARTNO.	QTY.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 33 34 35 36 37 38 39 39 39 39 39 39 39 39 39 39 39 39 39	31322 34622 34621 34620 34520 23865B 6T1251 34623 30750A 21544 21542 21635 22016 21627 6T3200 TB3440 21986 21525 33534 32691 6T4411 21500 6T3017 34612 34617 34616 32807 06500000 33364 33382 32678 33383 31633 21633 21988 21625	1 1 1 1 1 1 1 1 1 1 2 1 2 1 3 3 3 1 8" 7 3 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	VALVE 2SP, HSC, TSF, COM VALVE MOUNTING ANGLE, LF VALVE MOUNTING ANGLE, LF VALVE MOUNTING ANGLE, RF SWITCH BOX, SINGLE CABLE CONTROL MOUNTING BRACKET CABLE CONTROL BOX CONTROL CABLE 122" SUPPORT BRACKET CAPSCREW 1/4" X 5" CAPSCREW 1/4" X 4" CAPSCREW 3/8" X 2 1/4" FLATWASHER 3/8" NYLOCK NUT 3/8" SPLIT HOSE 6" LONG TRIMLOCK LOCKWASHER 1/4" HEX NUT 1/4" CAPSCREW 10MM X 20MM (1.5 PITCH) LOCKWASHER 10MM CABLE CLEVIS HEX NUT 1/4" UNF ROLL PIN HOSE, 1/2" X 34" (PRESSURE & RETURN) HOSE 1/4" X 26" (LOAD SENSE 1) HOSE 1/4" X 18" (LOAD SENSE 2) ADAPTER 1/2" X 3/8" HOSE, 1/4" X 131" HOSE, 1/4" X 120" ELBOW 1/2" X 1/2" ADAPTER 5/8" X 1/2" ELBOW 1/2" X 1/2" ADAPTER 22 MM CAPSCREW 3/8" X 1 3/4" LOCKWASHER 3/8" HEX NUT 3/8"
40	JD72-7320 ON 21630	LY 4	CAPSCREW 3/8" X 1"
40A 40B	JD74-7520 ON 21641 06430012	LY 4 4	CAPSCREW 3/8" X 3 3/4" SPACER,1x9/16x23/4
41 42 **	32724 27513 34618	2 2 38"	FLATWASHER 10MM CAPSCREW 10MM X 25MM HOSE SLEEVE (NOT SHOWN)

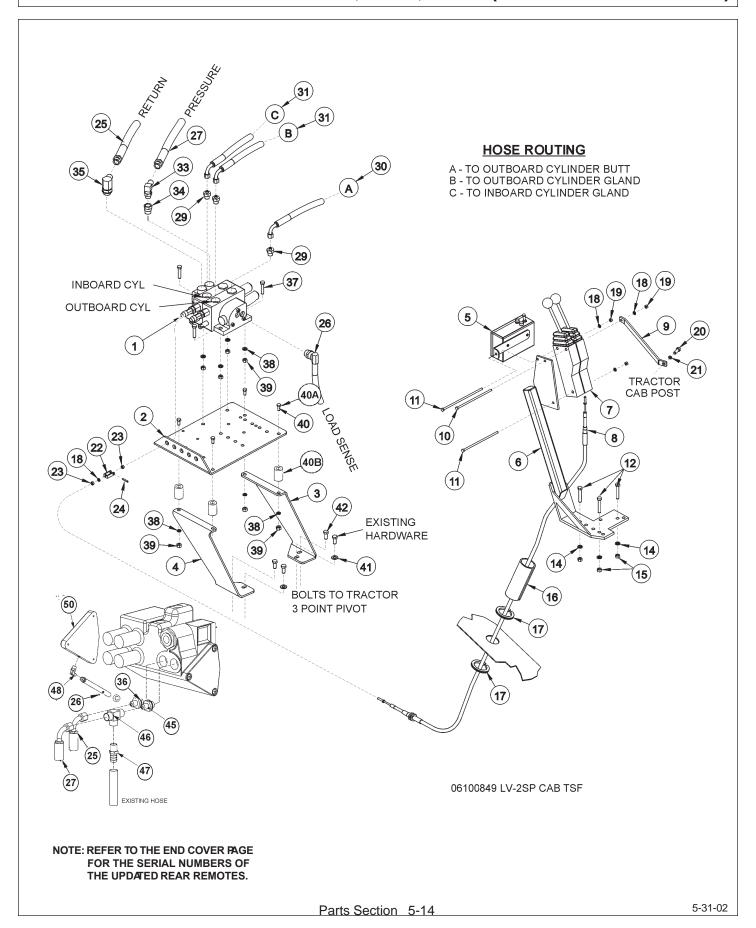
LIFT VALVE - JD 72-7520 TSF, 2 SP, CAB (2004 UPDATE)



LIFT VALVE - JD 72-7520 TSF, 2 SP, CAB (2004 UPDATE)

ITEM	PARTNO.	QTY.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19 20 21 22 23 24 25 26 29 30 31 33 34 35 36	31322 34622 34621 34620 34520 23865B 6T1251 34623 30750A 21544 21542 21635 22016 21627 6T3200 TB3440 21986 21525 33534 32691 6T4411 21500 6T3017 34612 34968 32807 06500000 33364 33382 32678 33383 33463	1 1 1 1 1 1 1 2 2 1 2 1 3 3 3 1 8" 7 3 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VALVE 2SP, HSC, TSF, COM VALVE MOUNTING PLATE VALVE MOUNTING ANGLE, LF VALVE MOUNTING ANGLE, RF SWITCHBOX, SINGLE CABLE CONTROL MOUNTING BRACKET CABLE CONTROL BOX CONTROL CABLE 122" SUPPORT BRACKET CAPSCREW 1/4" X 5" CAPSCREW 1/4" X 4" CAPSCREW 3/8" X 2 1/4" FLATWASHER 3/8" NYLOCK NUT 3/8" SPLIT HOSE 6" LONG TRIMLOCK LOCKWASHER 1/4" HEX NUT 1/4" CAPSCREW 10MM X 20MM (1.5 PITCH) LOCKWASHER 10MM CABLE CLEVIS HEX NUT 1/4" UNF ROLL PIN HOSE, 1/2" X 34" (PRESSURE & RETURN) HOSE 1/4" X 48" (LOAD SENSE) ADAPTER 1/2" X 3/8" HOSE, 1/4" X 131" HOSE, 1/4" X 120" ELBOW 1/2" X 1/2" ADAPTER 5/8" X 1/2" ELBOW 5/8" X 1/2" ADAPTER 22 MM
37 38 39	21633 21988 21625	4 8 8	CAPSCREW 3/8" X 1 3/4" LOCKWASHER 3/8" HEX NUT 3/8"
40	JD72-7320 ON 21630	LY 4	CAPSCREW 3/8" X 1"
40A 40B	JD74-7520 ON 21641 06430012	LY 4 4	CAPSCREW 3/8" X 3 3/4" SPACER,1x9/16x2 3/4
41 42 47 48 **	32724 27513 06503009 06503013 34618	2 2 1 1 38"	FLATWASHER 10MM CAPSCREW 10MM X 25MM ELBOW 22MM X 1/2" ELBOW 14MM X 1/4" HOSE SLEEVE (NOT SHOWN)

LIFT VALVE - JD 66-6715 TSF, 2 SP, CAB (ORIGINAL REMOTE)

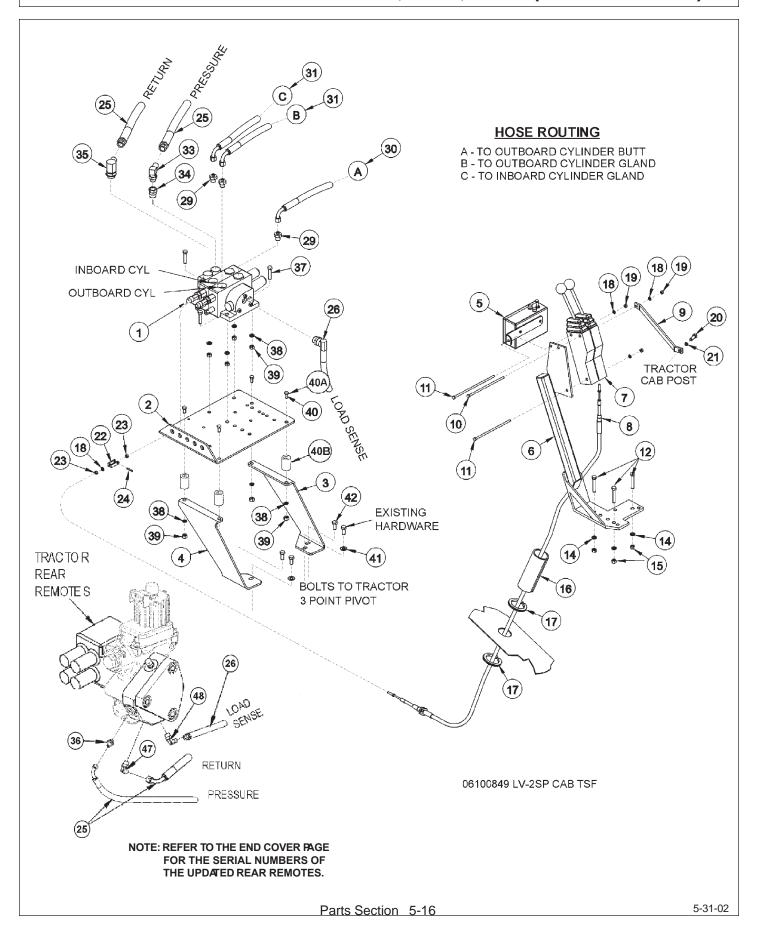


LIFT VALVE - JD 66-6715 TSF, 2 SP, CAB (ORIGINAL REMOTE)

ITEM	PART NO.	QTY.	DESCRIPTION
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39 40	21625 JD72-7320 ON 21630	8 ILY 4	HEX NUT 3/8" CAPSCREW 3/8" X 1"
40A 40B	JD74-7520 ON 21641 06430012		CAPSCREW 3/8" X 3 3/4" CAPSCREW 3/8" X 3 3/4" SPACER,1x9/16x23/4
41 42 45 46 47 48 50 **	32724 27513 33680 33948 33949 31739 AL112432 34618	2 2 1 1 1 1 1 1 38"	FLATWASHER 10MM CAPSCREW 10MM X 25MM ADAPTER 22MM TEE 5/8" FITTING, BARB 5/8" ELBOW 5/16" X 12MM END CAP HOSE SLEEVE (NOT SHOWN)

3-8-02

LIFT VALVE - JD 66-6715 TSF, 2 SP, CAB (2004 UPDATE)

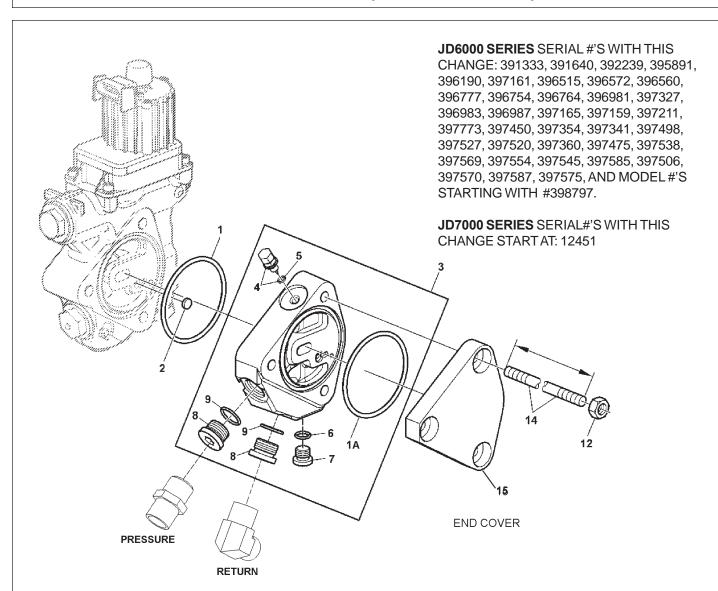


LIFT VALVE - JD 66-6715 TSF, 2 SP, CAB (2004 UPDATE)

ITEM	PARTNO.	QTY.	DESCRIPTION
1	31322	1	VALVE 2SP, HSC, TSF, COM
2	34622	1	VALVE MOUNTING PLATE
3	34621	1	VALVE MOUNTING ANGLE, LF
	34620	1	VALVE MOUNTING ANGLE, LF VALVE MOUNTING ANGLE, RF
4			,
5	34520	1	SWITCHBOX, SINGLE
6	23865B	1	CABLE CONTROL BOX
7	6T1251	2	CABLE CONTROL BOX
8	34623	2	CONTROL CABLE 122"
9	30750A	1	SUPPORT BRACKET
10	21544	2	CAPSCREW 1/4" X 5"
11	21542	1	CAPSCREW 1/4" X 4"
12	21635	3	CAPSCREW 3/8" X 2 1/4"
14	22016	3	FLATWASHER 3/8"
15	21627	3	NYLOCK NUT 3/8"
16	6T3200	1	SPLIT HOSE 6" LONG
17	TB3440	8"	TRIMLOCK
18	21986	7	LOCKWASHER 1/4"
19	21525	3	HEX NUT 1/4"
20	33534	1	CAPSCREW 10MM X 20MM
21	32691	1	LOCKWASHER 10MM
22	6T4411	2	CABLE CLEVIS
23	21500	6	HEX NUT 1/4" UNF
24	6T3017	3	ROLLPIN
25	34612	2	HOSE, 1/2" x 34"
26	34968	1	HOSE 1/4" X 48"
29	33271	5	ADAPTER 1/2" X 3/8"
30	06500000	1	HOSE, 1/4" X 131"
31	33364	2	HOSE, 1/4" X 120"
33	33382	1	ELBOW 1/2" X 1/2"
34	32678	1	ADAPTER 5/8" X 1/2"
35	33383	1	ELBOW 5/8" X 1/2"
36	33463	1	ADAPTER 22 MM
37	21633	4	CAPSCREW 3/8" X 1 3/4"
38	21988	8	LOCKWASHER 3/8"
39	21625	8	HEX NUT 3/8"
	JD72-7320 ON	LY	
40	21630	4	CAPSCREW 3/8" X 1"
	JD74-7520 ON	LY	
40A	21641	4	CAPSCREW 3/8" X 3 3/4"
40B	06430012	4	SPACER,1x9/16x23/4
41	32724	2	FLATWASHER 10MM
42	27513	2	CAPSCREW 10MM X 25MM
47	06503009	1	ELBOW,22MM ORB x 1/2" MJ
48	06503013	1	ELBOW,14MM ORB x 5/16" MJ
**	34618	38"	HOSE SLEEVE (NOT SHOWN)
			,

3-8-02

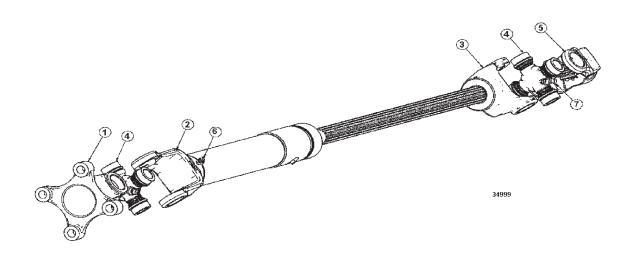
END COVER (2004 UPDATE)



NOTE: ITEM # 1, 12 AND 15 ARE THE TRACTOR EXISTING HARDWARE.

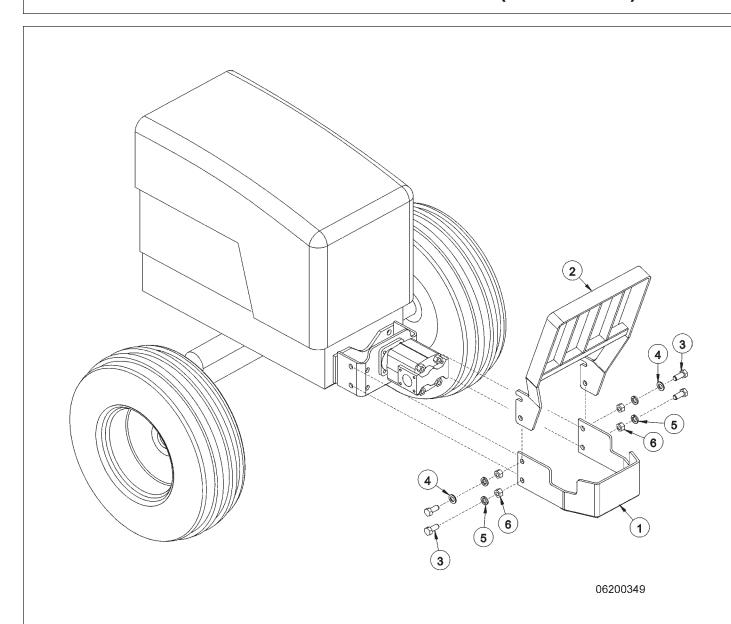
ITEM	PART NO.	QTY.	DESCRIPTION
1 2	R95494	AVA	O-RING
	R95493	AVA	DISK
3 4 5 6 7 8 9	AL161388 AL117977 51M7052 51M7041 15M7076 15M7077 51M7045	AVA 1 1 1 1 1 1 1	SPACER SCREW O-RING O-RING DRAIN PLUG DRAIN PLUG O-RING
12	14M7148	1	NUT
14	L169845	3	STUD

PUMP DRIVESHAFT ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
*	34999	AVA	DRIVESHAFT,U-JOINT
1	06505004	1	YOKE PULLEY, 34999
2	06505005	1	SLEEVE, 34999
3	06505006	1	SHAFT, 34999
4	06505007	2	CROSS, 34999
5	06505008	1	YOKE DRIVE, 34999
6	6T3203	1	GREASE ZERK, 1/4 X 45
7	6T3207	3	GREASE ZERK, 1/4 X STR

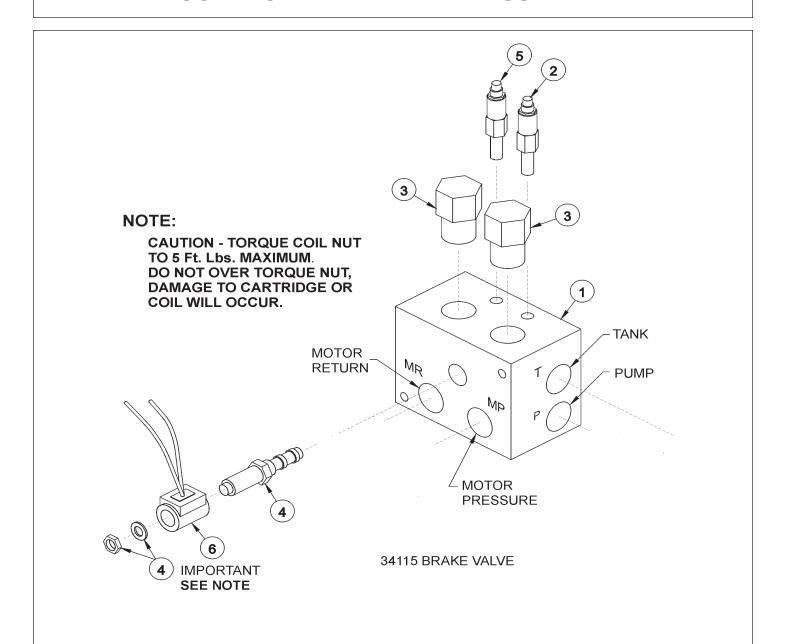
FRONT PUMP & GRILL GUARD (OPTIONAL)



ITEM	PARTNO.	QTY.	DESCRIPTION
1 2	32430 32737	1	PUMP GUARD - UNIVERSAL GRILL GUARD - UNIVERSAL
3 3A	21833 21833	4	CAPSCREW - 3/4" X 1 3/4" (PUMP GAURD ONLY) CAPSCREW 3/4" X 2 1/4" (PUMP + GRILL GAURD)
4 5 6	22021 21993 21825	4 4 4	FLATWASHER - 3/4" LOCKWASHER - 3/4" HEX NUT - 3/4"
•		•	11271101 0/1

3-8-02

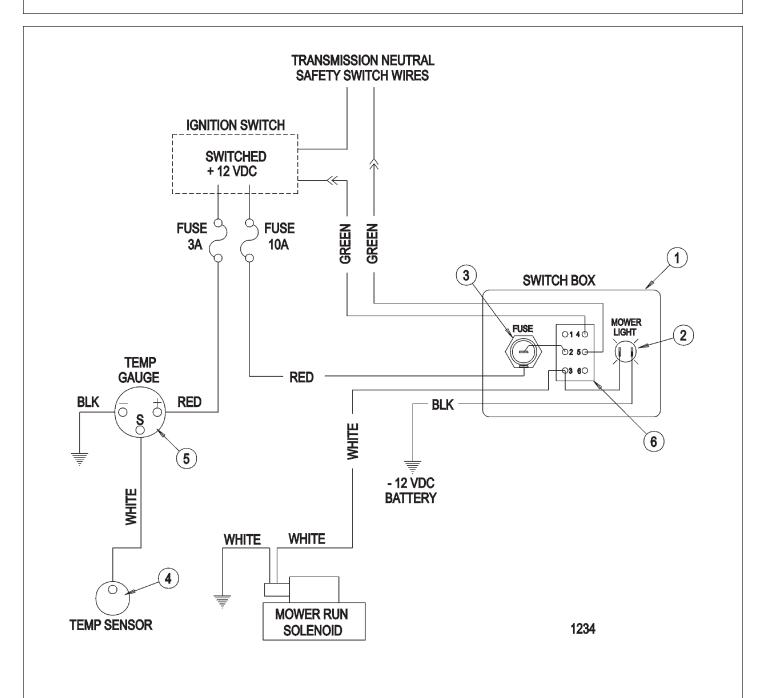
SOLENOID BRAKE VALVE ASSEMBLY



ITEM	PARTNO.	QTY.	DESCRIPTION
*	34115	AVAIL	SOLENOID BRAKE VALVE ASSEMBLY - HIGH PRESSURE
1	34092	1	BRAKE VALVE, BLANK
2	34095	1	RELIEF VALVE, 3000 PSI
3	34094	2	LOGIC ELEMENT
4	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
5	34091	1	RELIEF VALVE, 2600 PSI
6	34689	1	COIL, 12 VDC, BRAKE VALVE
**	34096	2	RELIEF SEAL KIT
**	34097	1	SOLENOID SEAL KIT
**	34098	2	ELEMENT SEAL KIT

12-17-02

SOLENOID VALVE WIRING



ITEM	PART NO.	QTY.	DESCRIPTION
	34520	AVAIL	SWITCH BOX ASY (COMPLETE)
1	34325	1	SWITCHBOX
2	6T3923	1	INDICATOR LIGHT
3	6T3924	1	FUSE HOLDER
4	6T3931	OPT.	TEMPERATURE SENSOR
5	6T3934	OPT.	TEMPERATURE GAUGE
6	PT3905A	1	TOGGLE SWITCH

12-12-02





HEAVY DUTY SIDE FLAIL MOW	'ER
	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.

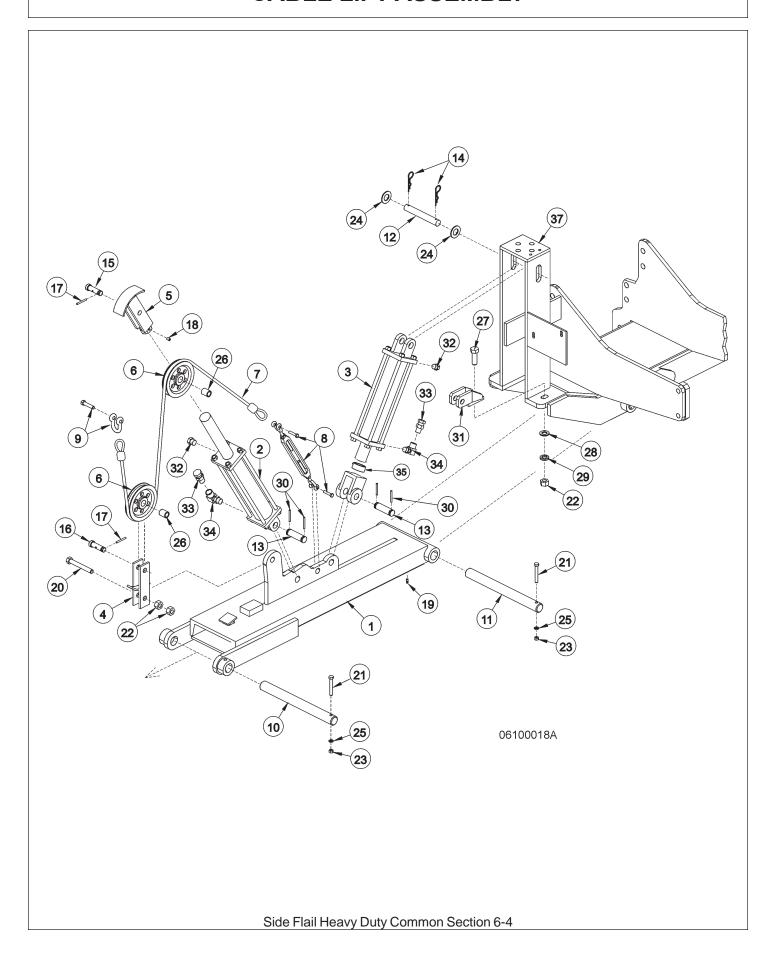


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

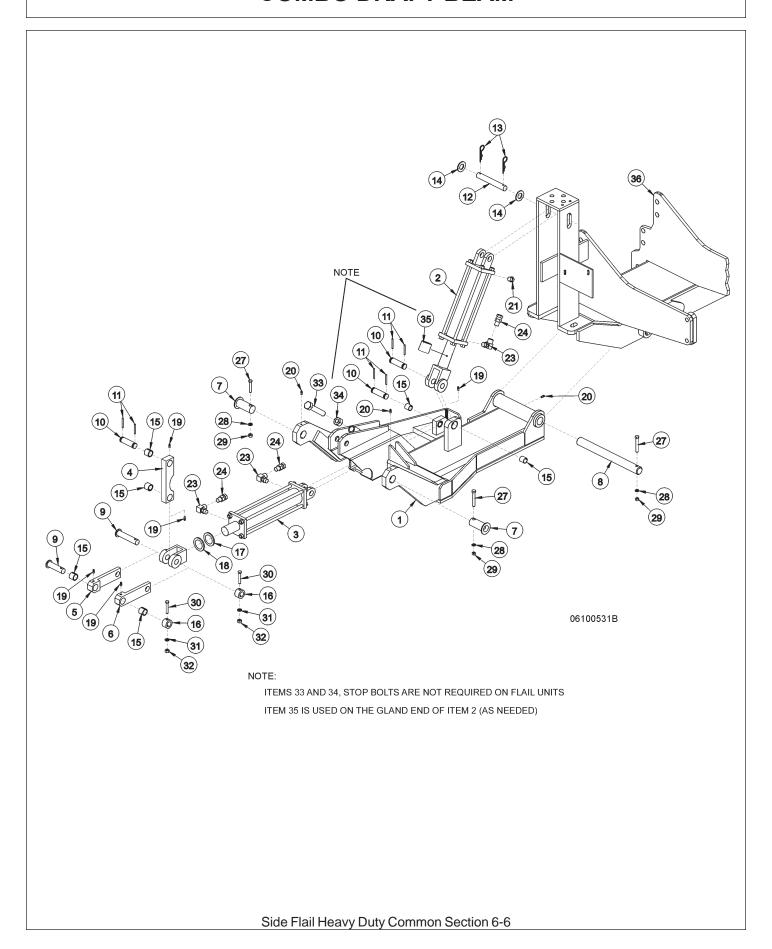
CABLE LIFT ASSEMBLY



CABLE LIFT ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0103E	OPT.	DRAFT BEAM (EXTENDED 6" 4WD)
	6T0105	OPT.	DRAFT BEAM (STD WITH TRAVEL LOCK)
	6T0108	OPT.	DRAFT BEAM (30 LB CHANNEL, 45 3/8")
2	6T0150	1	CYLINDER 3" X 18"
3	6T0151R	1	HYD. CYLINDER 3" X 10"
4	6T0100	1	LOWER SHEAVE BRACKET
5	6T0101	1	UPPER SHEAVE BRACKET
6	33768	2	SHEAVE
7	6T0110	1	LIFT CABLE (STD 1/2" X 87 1/2")
	6T0110E	OPT.	LIFT CABLE (EXTENDED 6" 4WD)
0	6T0110L	OPT.	LIFT CABLE (EXTENDED 15")
8	6T0115	1	TURN BUCKLE
9	6T0112 6T2999	1 1	SHACKLE WITH PIN OUTER DRAFT BEAM PIN 1 1/2" X 14 1/2"
10 11	6T3001	1	INNER DRAFT BEAM PIN 1 1/2 X 14 1/2
12	6T3001	1	CYLINDER PIN 1" X 7 5/8"
13	6T3003D	2	CLEVIS PIN 1" X 3 1/2"
14	6T3003D	2	R - CLIP 3/16"
15	6T3010	1	UPPER SHEAVE PIN WITH ZERK 3/4" X 3"
16	6T3009	1	LOWER SHEAVE PIN WITH ZERK 3/4" X 2 1/2"
17	27849	2	R - CLIP 3/16"
18	6T2272	1	SET SCREW 3/8" X 1/2"
19	6T3211	1	GREASE ZERK 1/8" STRAIGHT
20	21836	1	CAPSCREW 3/4" X 3"
21	21688	2	CAPSCREW 7/16" X 3 1/4"
22	21825	2	HEX NUT 3/4"
23	21675	2	HEX NUT 7/16"
24	22023	2	FLAT WASHER 1"
25	21989	2	LOCK WASHER 7/16"
26	6T0104N	2	SHEAVE PIN BUSHING 1" OD X 3/4" ID
27	21833	1	CAPSCREW 3/4" X 2 1/4"
28	22021	1	FLAT WASHER 3/4"
29	21993	1	LOCK WASHER 3/4"
30	TB1023	4	ROLL PIN 7/32" X 2"
31	6T0106	1	TRAVEL LOCK BRACKET
32	6T4258	2	BREATHER 1/2"
33	34396	2 2	RESTRICTOR
34 35	34244	1	ELBOW FITTING 1/2" SPACER
35 37	06700095 *		MAIN FRAME REFER TO TRACTOR PARTS SECTION
31		REF.	IVIAIIN FRAIVIE REFER TO TRACTOR PARTS SECTION

COMBO DRAFT BEAM

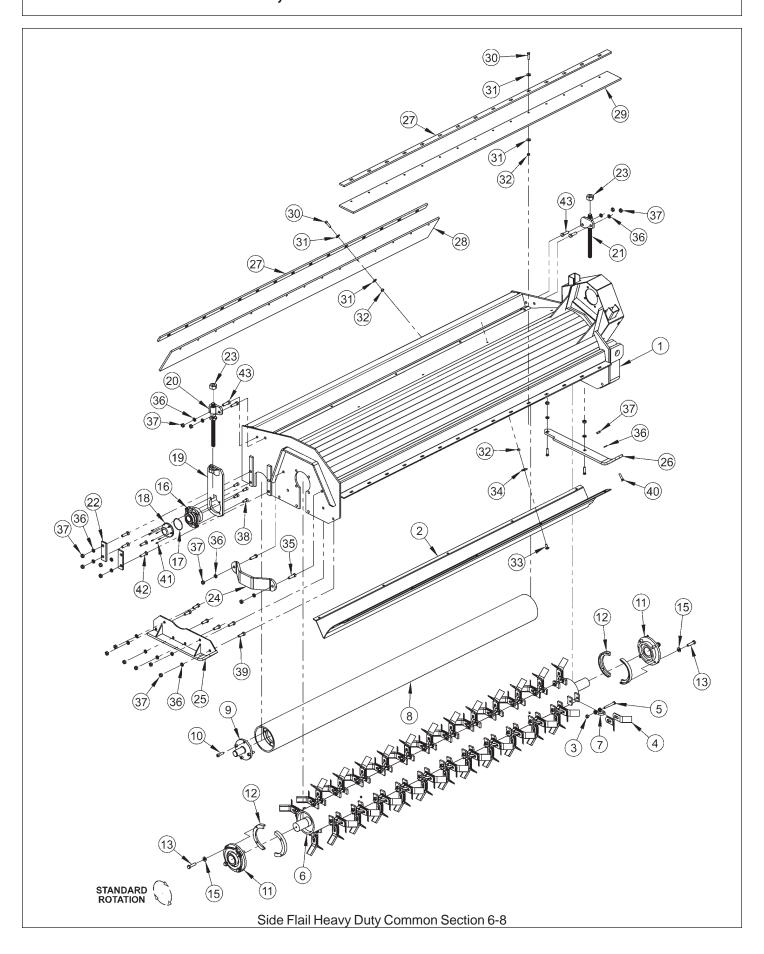


COMBO DRAFT BEAM

ITEM	PART NO.	QTY.	DESCRIPTION
1	28955D	1	COMBO DRAFT BEAM - HEAVY 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	HEX NUT 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)

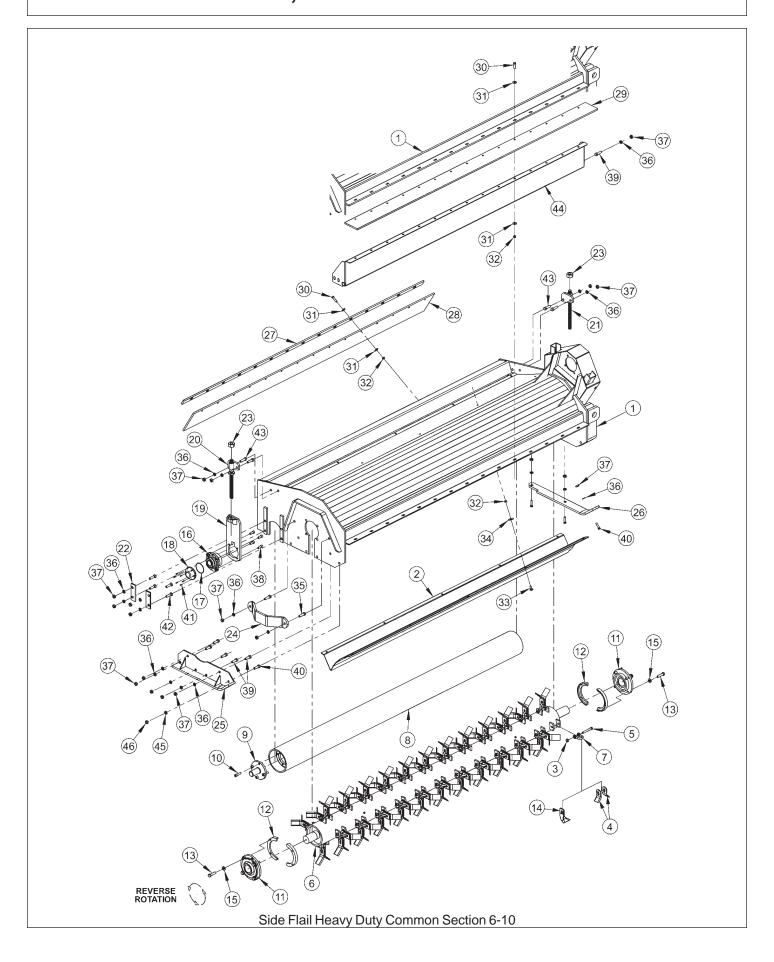
60" SIDE FLAIL, STANDARD ROTATION - COMBO



60" SIDE FLAIL, STANDARD ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	33913	1	BONNET 60" COMBO
2	TF1802A	1	BAFFLE,FLAIL,60" HD,STC
	TF1807A	1	CUTTERSHAFT,ASSY,60" HD,STC
3	21677	40	NYLOCK NUT,7/16 NC
4	33714	80	KNIFE,FLAIL,STANDARD
5	34011	40	CAPSCREW,7/16x3 7/16,NC GR8
6	TF1807	1	CUTTERSHAFT,60" HD
7	TF1020	40	KNIFE MTG CLEVIS,FLAIL
8	30277	1	GROUND ROLLER 60"
9	TF1045B	2	STUB SHAFT,GROUND ROLLER
10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
11	TF1018	2	BEARING,FLANGE,2-3/16
	06200347	*	STRING GUARD, KIT, HD (ITEMS 12, 13, 15)
12	31204	2	STRING GUARD, HD
13	06530217	8	CAPSCREW,1/2 X 2,NC,L9
15	06533006	12	FLATWASHER,1/2,SAE,L9
16	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
17	06520029	2	O-RING,2 3/4x3/32,AS568A-148
18	06520027	2	CAP,BEARING,GRNDRLR
19	TF4333A	2	GROUND ROLLER ADJ,BRKT
20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
22	TF4336	4	PLATE, GROUND ROLLER LOCK
23	21399	2	HEX NUT,3/4 (ACME) BULK
24	TF1040	1	GUARD,CUTTER SHAFT
25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
26	23272A	1	SKID SHOE,T3F,INNER
27	TF1803	2	BAR,FLAP,TSF/TRF 60
28	TF1804	1	FLAP,DEFLECTOR,TSF 60
29	06520240	1	FLAP,60",FRONT
30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
31	22016	60	FLATWASHER,3/8
32	21625	40	HEX NUT,3/8 NC
33	6T2283	10	CARRIAGE BOLT,3/8 X 1 NC
34	6T2615	10	WASHER, FENDER 3/8
35	21732	2	CAPSCREW,1/2 X 1-3/4 NC
36	21990	23	LOCKWASHER,1/2
37	21725	23	HEX NUT,1/2 NC
38	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
39	21730	6	CAPSCREW,1/2 X 1-1/4 NC
40	23293	3	PLOW,BOLT,1/2 X 1-3/4 NC
41	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
42	6T2291	8	PLOW BOLT,1/2 X 2 NC GR5
43	21731	4	CAPSCREW,1/2 X 1-1/2 NC

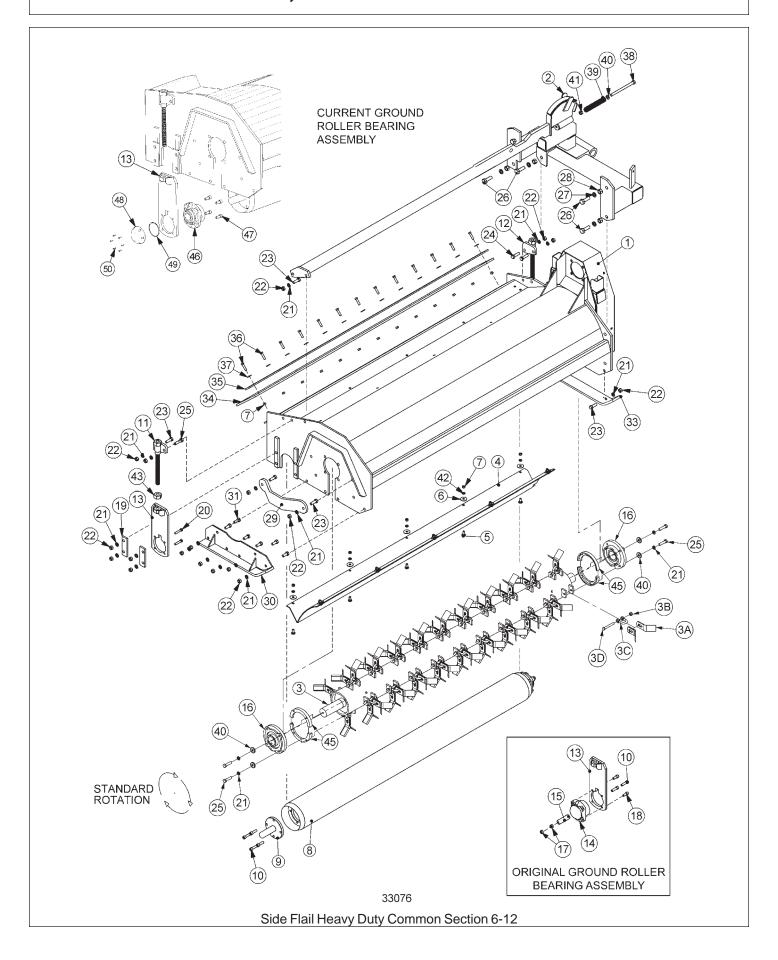
60" SIDE FLAIL, REVERSE ROTATION - COMBO



60" SIDE FLAIL, REVERSE ROTATION - COMBO

1 33913 1 BONNET 60" COMBO 2 TF1807A 1 BAFFLE,FLAIL,60" HD,STC TF1807A 1 NYLOCK NUT,7/16 NC 4 33714 80 KNIFE,FLAIL,STANDARD 5 34011 40 CAPSCREW,7/16x3 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,AS3 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 672330 8 CAPSCREW,8716x1-1/2NC 11 TF1018 2 BEARING,FLANG,2-3/16 06200347 * STRING GUARD, HD 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333 2 GROUND ROLLER ADJ,LF 10 TF4334 1 ROD,GROUND ROLLER ADJ,LF 11 TF4335 1 ROD,GROUND ROLLER ADJ,LF 12 TF4336 4 PLATE,GROUND ROLLER LOCK 13 2372A 1 SKID SHOEL, 13/4 (ACME) BULK 15 TF4371 1 SKID SHOEL, 13/4 (ACME) BULK 16 G23272A 1 SKID SHOEL, 13/8 NC 17 TF1803 1 BAR,FLAN,ES, 13/8 NC 18 TF1804 1 FLAP,DEFLECTOR,TSF 60 19 TF1805 1 FLAP,DEFLECTOR,TSF 60 19 TF1807 1 FLAP,DEFLECTOR,TSF 60 19 TF1807 1 FLAP,DEFLECTOR,TSF 60 19 TF1807 1 FLAP,DEFLECTOR,TSF 60 10 TF1807 1 FLAP,DEFLECTOR,TSF 60 11 TF1807 1 FLAP,DEFLECTOR,TSF 60 11 TF1807 1 FLAP,DEFLECTOR,TSF 60 11 TF1807 1	ITEM	P/N	QTY	DESCRIPTION
TF1807A 1 CUTTERSHAFT,ASSY,60" HD,STC 3 21677 40 NYLOCK NUT,7/16 NC 4 33714 80 KNIFE,FLAIL,STANDARD 5 34011 40 CAPSCREW,7/16x3 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 6T2330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD,KIT,HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD, HD 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2, SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,A5568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 11 TF4335 1 ROD,GROUND ROLLER ADJ,LF 12 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 12 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 13 TF4333 1 SKID SHOE,LYPROFILE-OUTER 14 TF1040 1 GUARD,CUTTER SHAFT 15 TF4371 1 SKID SHOE,LYPROFILE-OUTER 16 23272A 1 SKID SHOE,LYPROFILE-OUTER 17 TF1803 1 BAR,FLAP,TS-FTRE 60 18 TF1804 1 FLAP,0EFLECTOR,TSF 60 19 06520240 1 FLAP,0EFLECTOR,TSF 60 19 06520240 1 FLAP,0EFLECTOR,TSF 60 29 06520240 1 FLAP,0EFLECTOR,TSF 60 29 06520240 1 FLAP,0EFLECTOR,TSF 60 21 122016 60 FLATWASHER,3/8 21 1732 2 CAPSCREW,1/2 X 1-3/4 NC 30 12930 3 LOCKWASHER,1/2 31 22016 60 FLATWASHER,3/8 31 GT2283 10 CARRIAGE BOLT,3/8 X 1 NC 32 1732 2 CAPSCREW,1/2 X 1-3/4 NC 33 6T2231 8 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD, BORD LAR 45 22018 1 FLATWASHER,1/2,WIDE	1	33913	1	BONNET 60" COMBO
3 21677 40 NYLOCK NUT,7/16 NC 4 33714 80 KNIFE,FLAIL,STANDARD 5 34011 40 CAPSCREW,7/16,33 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 6T2330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD,KIT,HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD,KIT,HD(ITEMS 12,13,15) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 23 21399 2 HEX NUT,3/4 (ACME) BULK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD, CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,L/PROFILE-OUTER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,00",FRONT 30 21632 30 CAPSCREW,3/8 X 1 -1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,3/8 X 1 -1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1 -3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1 -3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1 -3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1 -1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1 -1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1 -1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1 -1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1 -1/4 NC 44 TF1801 1 TR35H GUARD, BOREY ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	2	TF1802A	1	BAFFLE,FLAIL,60" HD,STC
4 33714 80 KNIFE,FLAIL,STANDARD 5 34011 40 CAPSCREW,7/16x3 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 6T2330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD, HD 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,LPROFILE-OUTER 26 23272A 1 SKID SHOE,LPROFILE-OUTER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,OEF,LECTOR,TSF 60 29 06520240 1 FLAP,OEF,LECTOR,TSF 60 29 06520240 1 FLAP,OEF,LECTOR,TSF 60 21 22016 60 FLATWASHER,3/8 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARSCREW,3/8 X 1 NC 34 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21726 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 44 TF1801 1 TRASH GUARD, BOREY ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE		TF1807A	1	CUTTERSHAFT,ASSY,60" HD,STC
5 34011 40 CAPSCREW,7/16x3 7/16,NC GR8 6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 6T2330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 10 66200347 * STRING GUARD, HD 11 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 0653006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD, CUTTER SHAFT 25 TF4371 1 SKID SHOE, L/PROFILE-OUTER 26 23272A 1 SKID SHOE, L/PROFILE-OUTER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,GOF,TSF,FINNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,GOF,TSF,FINNER 29 06520240 1 FLAP,GOF,TSF,FINNER 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER, 3/8 32 21625 40 HEX NUT,3/8 NC 33 672283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER, FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER, 1/2 37 21725 23 HEX NUT,3/8 NC 38 6T2331 8 CAPSCREW,1/2 X 1-3/4 NC 39 21730 6 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/4 NC 40 CAPSCREW,1/2 X 1-1/4 NC 41 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	3	21677	40	NYLOCK NUT,7/16 NC
6 TF1807 1 CUTTERSHAFT,60" HD 7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 612330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD, HD 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER, 1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x/3/2,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4334 1 ROD,GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4371 1 SKID	4	33714	80	KNIFE,FLAIL,STANDARD
7 TF1020 40 KNIFE MTG CLEVIS,FLAIL 8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 672330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF101B 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD, KIT,HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD, HD 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF43334 1 ROD,GROUND ROLLER ADJ,BRT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 22 TF4371 1 <td>5</td> <td>34011</td> <td>40</td> <td>CAPSCREW,7/16x3 7/16,NC GR8</td>	5	34011	40	CAPSCREW,7/16x3 7/16,NC GR8
8 30277 1 GROUND ROLLER 60" 9 TF1045B 2 STUB SHAFT, GROUND ROLLER 10 6T2330 8 CAPSCREW, SKT HD, 7/16 X1-1/2 NC 11 TF101B 2 BEARING, FLANGE, 2-3/16 12 06200347 * STRING GUARD, HD 14 TF1019F 40 KNIFE, FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW, 1/2 X 2, NC, L9 15 06533006 12 FLATWASHER, 1/2, SAE, L9 16 06520028 2 BEARING, FLANGE, 1 3/8, GRNDRLR 17 06520029 2 O-RING, 23/4x/3/32, AS568A-148 18 06520027 2 CAP, BEARING, GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ, BRKT 20 TF4334 1 ROD, GROUND ROLLER ADJ, RT 21 TF4336 4 PLATE, GROUND ROLLER ADJ, LF 22 TF4336 4 PLATE, GROUND ROLLER ADJ, RT 23 21399 2 HEX NUT, 3/4 (ACME) BULK 24	6	TF1807	1	CUTTERSHAFT,60" HD
9 TF1045B 2 STUB SHAFT,GROUND ROLLER 10 672330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD,KIT,HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD, HD 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER ADJ,LF 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,L/PROFILE-OUTER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,0EFLECTOR,TSF 60 29 06520240 1 FLAP,0EFLECTOR,TSF 60 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,1/2 X 1-3/4 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 41 06530001 12 CAPSCREW,SKT HD,7/16 X 1 NC 40 23293 3 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,SKT HD,8-32x1/2,SS 41 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-1/4 NC 40 41 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	7	TF1020	40	KNIFE MTG CLEVIS,FLAIL
10 6T2330 8 CAPSCREW,SKT HD,7/16X1-1/2NC 11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD, KIT,HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD, HD 14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,RT 21 TF4336 4 PLATE,GROUND ROLLER ADJ,BR 22 TF4336 4 PLATE,GROUND ROLLER ADJ,BR 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 </td <td>8</td> <td>30277</td> <td>1</td> <td>GROUND ROLLER 60"</td>	8	30277	1	GROUND ROLLER 60"
11 TF1018 2 BEARING,FLANGE,2-3/16 06200347 * STRING GUARD, KIT, HD(ITEMS 12,13,15) 12 31204 2 STRING GUARD, KIT, HD(ITEMS 12,13,15) 14 TF1019F 40 KNIFE, FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW, 1/2 X 2, NC, L9 15 06533006 12 FLATWASHER, 1/2, SAE, L9 16 06520028 2 BEARING, FLANGE, 1, 3/8, GRNDRLR 17 06520029 2 O-RING, 2, 3/4x3/32, AS568A-148 18 06520027 2 CAP, BEARING, GRNDRLR 19 TF43334 1 ROD, GROUND ROLLER ADJ, BRKT 20 TF4334 1 ROD, GROUND ROLLER ADJ, LF 21 TF4335 1 ROD, GROUND ROLLER ADJ, LF 22 TF4336 4 PLATE, GROUND ROLLER ADJ, LF 24 TF1040 1 GUARD, CUTTER SHAFT 25 TF4371 1 SKID SHOE, T3F, INNER 26 23272A 1 SKID SHOE, T3F, INNER 27 <td>9</td> <td>TF1045B</td> <td>2</td> <td>STUB SHAFT, GROUND ROLLER</td>	9	TF1045B	2	STUB SHAFT, GROUND ROLLER
06200347 STRING GUARD, KIT, HD(ITEMS 12,13,15)	10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
31204 2 STRING GUARD, HD 14 TF1019F 40 KNIFE, FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW, 1/2 X 2, NC, L9 15 06533006 12 FLATWASHER, 1/2, SAE, L9 16 06520028 2 BEARING, FLANGE, 1 3/8, GRNDRLR 17 06520029 2 O-RING, 2 3/4x3/32, AS568A-148 18 06520027 2 CAP, BEARING, GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ, BRKT 20 TF4334 1 ROD, GROUND ROLLER ADJ, LF 21 TF4335 1 ROD, GROUND ROLLER ADJ, LF 22 TF4336 4 PLATE, GROUND ROLLER ADJ, LF 23 21399 2 HEX NUT, 3/4 (ACME) BULK 24 TF1040 1 GUARD, CUTTER SHAFT 25 TF4371 1 SKID SHOE, L/PROFILE-OUTER 26 23272A 1 SKID SHOE, L/PROFILE-OUTER 27 TF1803 1 BAR, FLAP, TSF/TRF 60 28 TF1804 1 FLAP, DEFLECTOR, TSF 60 29 06520240 1 FLAP, BOT, FRONT 30 21632 30 CAPSCREW, 3/8 X 1-1/2 NC 31 22016 60 FLATWASHER, 3/8 32 21625 40 HEX NUT, 3/8 NC 33 6T2283 10 CARRIAGE BOLT, 3/8 X 1 NC 34 6T2615 10 WASHER, FENDER 3/8 35 21732 2 CAPSCREW, 1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER, 1/2 37 21725 23 HEX NUT, 1/2 NC 40 23293 3 PLOW, BOLT, 1/2 X 1-3/4 NC 40 23293 3 PLOW, BOLT, 1/2 X 1-3/4 NC 40 23293 3 PLOW, BOLT, 1/2 X 1-1/4 NC 40 23293 3 PLOW, BOLT, 1/2 X 1-1/2 NC 41 06530001 12 CAPSCREW, SKT HD, 7/16 X 1 NC 44 TF1801 1 TRASH GUARD, 60REV ROT-HD 45 22018 1 FLATWASHER, 1/2, WIDE	11	TF1018	2	BEARING,FLANGE,2-3/16
14 TF1019F 40 KNIFE,FLAIL (SMOOTH CUT) 13 06530217 8 CAPSCREW,1/2 X 2,NC,L9 15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,TSF,IRNNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,60",FRONT 30 21632 30		06200347	*	STRING GUARD, KIT, HD (ITEMS 12, 13, 15)
13	12	31204	2	STRING GUARD, HD
15 06533006 12 FLATWASHER,1/2,SAE,L9 16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,TSF,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,GO",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NU	14	TF1019F	40	KNIFE,FLAIL (SMOOTH CUT)
16 06520028 2 BEARING,FLANGE,1 3/8,GRNDRLR 17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,TSF,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 672283 10 CARRIAGE BOLT,3	13	06530217	8	CAPSCREW,1/2 X 2,NC,L9
17 06520029 2 O-RING,2 3/4x3/32,AS568A-148 18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,RT 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,0E*,FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 <td>15</td> <td>06533006</td> <td>12</td> <td>FLATWASHER,1/2,SAE,L9</td>	15	06533006	12	FLATWASHER,1/2,SAE,L9
18 06520027 2 CAP,BEARING,GRNDRLR 19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,LF 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,LPROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,60°,FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 672283 10 CARRIAGE BOLT,3/8 X 1 NC 34 672615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC </td <td>16</td> <td>06520028</td> <td>2</td> <td>BEARING,FLANGE,1 3/8,GRNDRLR</td>	16	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
19 TF4333A 2 GROUND ROLLER ADJ,BRKT 20 TF4334 1 ROD,GROUND ROLLER ADJ,RT 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60°,FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,1/2 X 1-3/4 NC 42 6T2291 8 PLOW,BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	17	06520029	2	O-RING,2 3/4x3/32,AS568A-148
20 TF4334 1 ROD,GROUND ROLLER ADJ,RT 21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2	18	06520027	2	CAP,BEARING,GRNDRLR
21 TF4335 1 ROD,GROUND ROLLER ADJ,LF 22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,L/PROFILE-OUTER 28 TF1801 1 FLAP,CETAR 29 06520240 1 <td>19</td> <td>TF4333A</td> <td>2</td> <td>GROUND ROLLER ADJ,BRKT</td>	19	TF4333A	2	GROUND ROLLER ADJ,BRKT
22 TF4336 4 PLATE,GROUND ROLLER LOCK 23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,SKT HD,8-32x1/2,SS <t< td=""><td>20</td><td>TF4334</td><td>1</td><td>ROD,GROUND ROLLER ADJ,RT</td></t<>	20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
23 21399 2 HEX NUT,3/4 (ACME) BULK 24 TF1040 1 GUARD,CUTTER SHAFT 25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,SKT HD,8-32x1/2,SS <tr< td=""><td>21</td><td>TF4335</td><td>1</td><td>ROD,GROUND ROLLER ADJ,LF</td></tr<>	21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
24 TF1040 1 GUARD, CUTTER SHAFT 25 TF4371 1 SKID SHOE, L/PROFILE-OUTER 26 23272A 1 SKID SHOE, T3F, INNER 27 TF1803 1 BAR, FLAP, TSF/TRF 60 28 TF1804 1 FLAP, DEFLECTOR, TSF 60 29 06520240 1 FLAP, 60", FRONT 30 21632 30 CAPSCREW, 3/8 X 1-1/2 NC 31 22016 60 FLATWASHER, 3/8 32 21625 40 HEX NUT, 3/8 NC 33 6T2283 10 CARRIAGE BOLT, 3/8 X 1 NC 34 6T2615 10 WASHER, FENDER 3/8 35 21732 2 CAPSCREW, 1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER, 1/2 37 21725 23 HEX NUT, 1/2 NC 38 6T2331 8 CAPSCREW, SKT HD, 7/16 X 1 NC 39 21730 6 CAPSCREW, SKT HD, 8-32x1/2, SS 42 6T2291 8 PLOW, BOLT, 1/2 X 2 NC	22	TF4336	4	PLATE,GROUND ROLLER LOCK
25 TF4371 1 SKID SHOE,L/PROFILE-OUTER 26 23272A 1 SKID SHOE,T3F,INNER 27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,SKT HD,8-32x1/2,SS 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS	23	21399	2	HEX NUT,3/4 (ACME) BULK
26 23272A 1 SKID SHOE, T3F, INNER 27 TF1803 1 BAR, FLAP, TSF/TRF 60 28 TF1804 1 FLAP, DEFLECTOR, TSF 60 29 06520240 1 FLAP, 60", FRONT 30 21632 30 CAPSCREW, 3/8 X 1-1/2 NC 31 22016 60 FLATWASHER, 3/8 32 21625 40 HEX NUT, 3/8 NC 33 6T2283 10 CARRIAGE BOLT, 3/8 X 1 NC 34 6T2615 10 WASHER, FENDER 3/8 35 21732 2 CAPSCREW, 1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER, 1/2 37 21725 23 HEX NUT, 1/2 NC 38 6T2331 8 CAPSCREW, SKT HD, 7/16 X 1 NC 39 21730 6 CAPSCREW, 1/2 X 1-1/4 NC 40 23293 3 PLOW, BOLT, 1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW, SKT HD, 8-32x1/2, SS 42 6T2291 8 PLOW BOLT, 1/2 X 2 NC GR5 43 21731 4 CAPSCREW, 1/2 X 1-1/2 NC<	24	TF1040	1	GUARD,CUTTER SHAFT
27 TF1803 1 BAR,FLAP,TSF/TRF 60 28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD <t< td=""><td>25</td><td>TF4371</td><td>1</td><td>SKID SHOE,L/PROFILE-OUTER</td></t<>	25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
28 TF1804 1 FLAP,DEFLECTOR,TSF 60 29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	26	23272A	1	SKID SHOE,T3F,INNER
29 06520240 1 FLAP,60",FRONT 30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	27	TF1803	1	BAR,FLAP,TSF/TRF 60
30 21632 30 CAPSCREW,3/8 X 1-1/2 NC 31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	28	TF1804	1	FLAP,DEFLECTOR,TSF 60
31 22016 60 FLATWASHER,3/8 32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	29	06520240	1	FLAP,60",FRONT
32 21625 40 HEX NUT,3/8 NC 33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
33 6T2283 10 CARRIAGE BOLT,3/8 X 1 NC 34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	31	22016	60	FLATWASHER,3/8
34 6T2615 10 WASHER,FENDER 3/8 35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	32	21625	40	HEX NUT,3/8 NC
35 21732 2 CAPSCREW,1/2 X 1-3/4 NC 36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	33	6T2283	10	CARRIAGE BOLT,3/8 X 1 NC
36 21990 23 LOCKWASHER,1/2 37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	34	6T2615	10	WASHER,FENDER 3/8
37 21725 23 HEX NUT,1/2 NC 38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	35	21732	2	CAPSCREW,1/2 X 1-3/4 NC
38 6T2331 8 CAPSCREW,SKT HD,7/16 X 1 NC 39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE		21990		· · · · · · · · · · · · · · · · · · ·
39 21730 6 CAPSCREW,1/2 X 1-1/4 NC 40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	37	21725	23	HEX NUT,1/2 NC
40 23293 3 PLOW,BOLT,1/2 X 1-3/4 NC 41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE		6T2331	8	
41 06530001 12 CAPSCREW,SKT HD,8-32x1/2,SS 42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE		21730		•
42 6T2291 8 PLOW BOLT,1/2 X 2 NC GR5 43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE	40	23293	3	PLOW,BOLT,1/2 X 1-3/4 NC
43 21731 4 CAPSCREW,1/2 X 1-1/2 NC 44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE		06530001		
44 TF1801 1 TRASH GUARD,60REV ROT-HD 45 22018 1 FLATWASHER,1/2,WIDE			8	
45 22018 1 FLATWASHER,1/2,WIDE				•
, ,		TF1801	1	The state of the s
46 21727 1 NYLOCK NUT,1/2 NC		22018	1	
	46	21727	1	NYLOCK NUT,1/2 NC

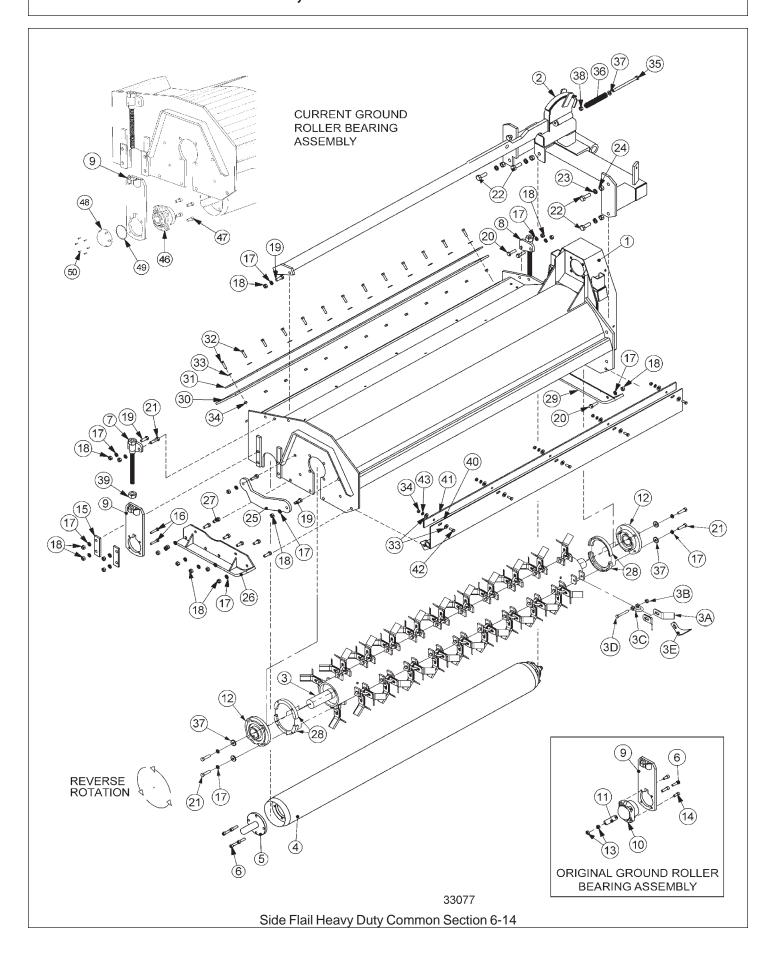
75" SIDE FLAIL, STANDARD ROTATION - CABLE



75" SIDE FLAIL, STANDARD ROTATION - CABLE

ITEM	P/N	QTY	DESCRIPTION
1	22032	1	BONNET,75,HD,TSF
2	21298C	1	MOUNTING FRAME
3	TF1002A	1	CUTTERSHAFT,ASSY,75" HD,STC
3A	33714	80	KNIFE,FLAIL,STANDARD
3B	21677	40	NYLOCK NUT,7/16" NC
3C	TF1020	40	KNIFE MTG CLEVIS,FLAIL
3D	34011	40	KNIFE MTG BOLT,FLAIL
4	TF1402A	1	BAFFLE,FLAIL,75" HD,STC
5	6T2283	10	CARRIAGE BOLT,3/8" X 1"NC
6	6T2615	10	WASHER, FENDER 3/8"
7	21625	23	HEX NUT,3/8",NC
8	28738	1 2	GROUND ROLLER
9 10	TF1045B 6T2330	12	GRND ROLLER STUB SHAFT CAPSCREW, 7/16 x 1 1/2, SOCKET HEAD
11	TF4334	1	ROD,GROUND ROLLER ADJ,RT
12	TF4335	1	ROD,GROUND ROLLER ADJ,LF
13	TF4333A	2	GROUND ROLLER ADJ BRK
14	TF1022S	2	BEARING,FLANGE,1-3/8"
15	30565	2	BEARING CAP KEEPER
16	TF1018	2	BEARING, FLANGE, 2-3/16"
17	24701	4	HEX NUT, 7/16" NC (STOVER NUT)
18	6T2331	4	CAPSCREW, 7/16 x 1, SOCKET HÉAD
19	TF4336	4	CLAMPING BLOCK, LH
20	6T2291	8	PLOW BOLT,1/2" X 2" NC
21	21990	31	LOCKWASHER, 1/2"
22	21725	23	HEX NUT, 1/2" NC
23	21731	6	CAPSCREW, 1/2 X 1 1/2,NC
24	21732	2	CAPSCREW, 1/2 x 1 3/4,NC
25	21733	9	CAPSCREW, 1/2 x 2,NC
26 27	21783	5 5	CAPSCREW, 5/8 x 2,NC LOCKWASHER, 5/8
28	21992 21775	5	HEX NUT, 5/8
29	TF1040	1	GUARD, CUTTER SHAFT
30	TF4371	1	SKID SHOE,L/PROFILE - OUTER
31	21730	6	CAPSCREW, 1/2 X 1 1/4,NC
33	TF4365	1	SKID SHOE,L/PROFILE - INNER
34	TF1016	1	FLAP,DEFLECTOR,TSF/TRF 75
35	TF1029	1	FLAP RETAINING BAR
36	21632	13	CAPSCREW,3/8" X 1-1/2" NC
37	22016	13	FLATWASHER,3/8"
38	21745	1	CAPSCREW, 1/2 x 7,NC
39	27005	1	SPRING, PUSHOFF, SIDE RTRY
40	27938	3	BUSHING,MACH,10Dx1/2IDx14GA.
41 42	21727	1	NYLOCK NUT, 1/2"
42 43	21988 21399	10 2	LOCKWASHER, 3/8" HEX NUT, 3/4" (ACME THRD)
45 45	31204	2	STRING GUARD, HD
46	06520028	2	BEARING, FLANGE, 1 3/8"
47	6T2331	8	CAPSCREW, 7/16" X 1", SOCKET HEAD
48	06520027	2	CAP,BEARING, GRND ROLLER
49	06520029	2	O-RING,2 3/4" X 3/32"
50	06530001	12	CAPSCREW, SKT HD

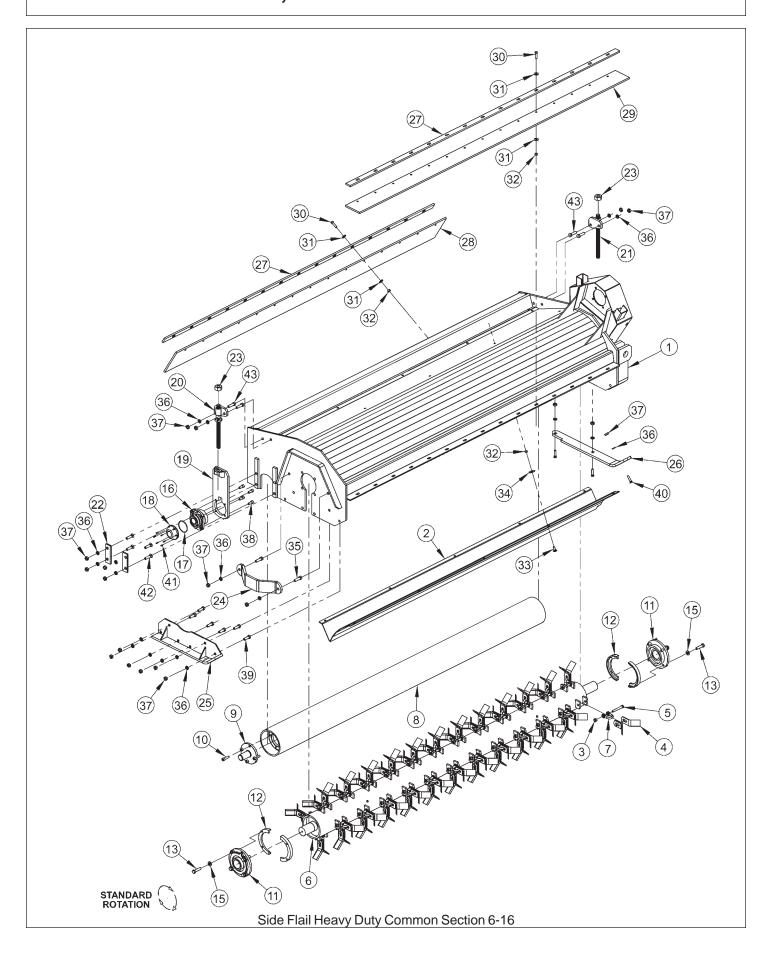
75" SIDE FLAIL, REVERSE ROTATION - CABLE



75" SIDE FLAIL, REVERSE ROTATION - CABLE

ITEM	P/N	QTY	DESCRIPTION
1	22032	1	BONNET,75,HD,TSF
2	21298C	1	MOUNTING FRAME
3	TF1002A	1	CUTTERSHAFT,ASSY,75" HD,STC
3A	33714	80	KNIFE,FLAIL,STANDARD
3B 3C	21677 TE1020	40	NYLOCK NUT,7/16" NC KNIFE MTG CLEVIS,FLAIL
3D	TF1020 34011	40 40	KNIFE MTG CLEVIS, FLAIL KNIFE MTG BOLT, FLAIL
3E	TF1019F	40	KNIFE,FLAIL (SMOOTH CUT)
4	28738	1	GROUND ROLLER
5	TF1045B	2	GRND ROLLER STUB SHAFT
6	6T2330	12	CAPSCREW, 7/16 x 1 1/2, SOCKET HEAD
7	TF4334	1	ROD, GROUND ROLLER ADJ, RT
8	TF4335	1	ROD,GROUND ROLLER ADJ,LF
9 10	TF4333A TF1022S	2 2	GROUND ROLLER ADJ BRK BEARING,FLANGE,1-3/8"
11	30565	2	BEARING CAP KEEPER
12	TF1018	2	BEARING,FLANGE,2-3/16"
13	24701	4	HEX NUT, 7/16" NC (STOVER NUT)
14	6T2331	4	CAPSCREW, 7/16 x 1, SOCKET HEAD
15	TF4336	4	CLAMPING BLOCK, LH
16	6T2291	8	PLOW BOLT,1/2" X 2" NC
17 10	21990	31	LOCKWASHER, 1/2"
18 19	21725 21731	23 6	HEX NUT, 1/2" NC CAPSCREW, 1/2 X 1 1/2,NC
20	21732	3	CAPSCREW, 1/2 x 1 3/4,NC
21	21733	5	CAPSCREW, 1/2 x 2,NC
22	21783	5	CAPSCREW, 5/8 x 2,NC
23	21992	5	LOCKWASHER, 5/8
24	21775	5	HEX NUT, 5/8
25	TF1040	1	GUARD, CUTTER SHAFT
26 27	TF4371 21730	1 5	SKID SHOE,L/PROFILE - OUTER CAPSCREW, 1/2 X 1 1/4,NC
28	31204	2	STRING GUARD, HD
29	TF4365	1	SKID SHOE,L/PROFILE - INNER
30	TF1016	1	FLAP,DEFLECTOR,TSF/TRF 75
31	TF1029	1	FLAP RETAINING BAR
32	21632	13	CAPSCREW,3/8" X 1-1/2" NC
33	22016	23	FLATWASHER,3/8"
34 35	21625 21745	18 1	HEX NUT,3/8",NC CAPSCREW, 1/2 x 7,NC
36	27005	1	SPRING, PUSHOFF, SIDE RTRY
37	27938	9	BUSHING,MACH,10Dx1/2IDx14GA.
38	21727	1	NYLOCK NUT, 1/2
39	21399	2	HEX NUT, 3/4" (ACME THRD)
40	TF1403	1	FRONT TRASH GUARD
41	25461	1	MOUNTING BAR
42 43	21630 21988	5 5	CAPSCREW, 3/8 x 1,NC LOCKWASHER, 3/8"
43 46	06520028	2	BEARING, FLANGE, 1 3/8"
47	6T2331	8	CAPSCREW, 7/16" X 1", SOCKET HEAD
48	06520027	2	CAP,BEARING, GRND ROLLER
49	06520029	2	O-RING,2 3/4" X 3/32"
50	06530001	12	CAPSCREW, SKT HD

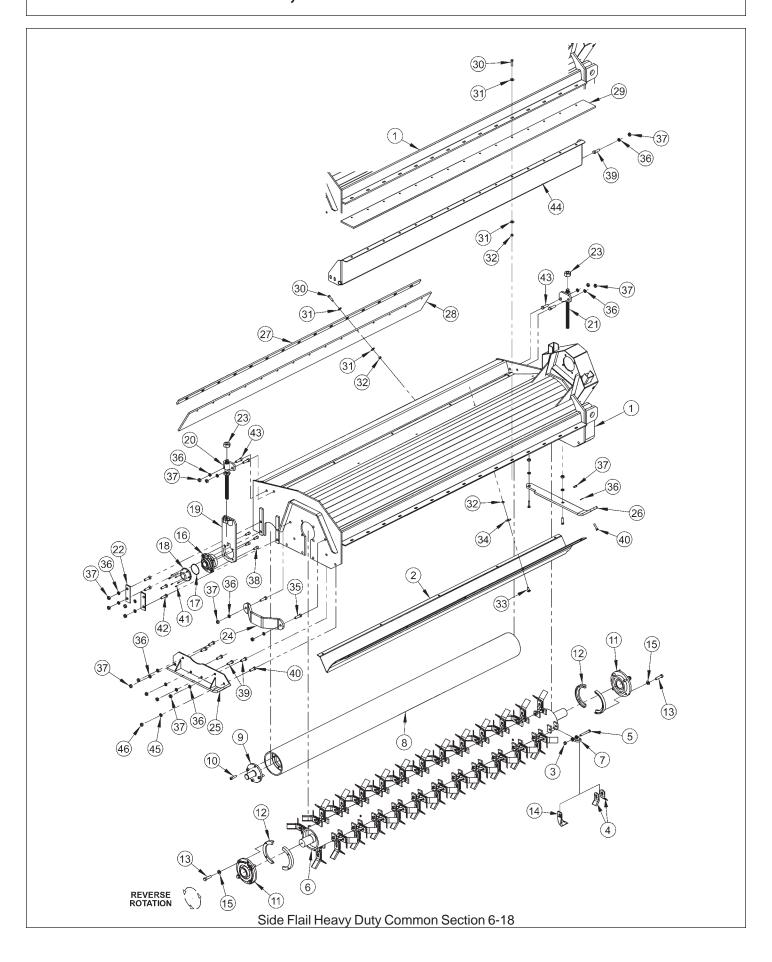
75" SIDE FLAIL, STANDARD ROTATION - COMBO



75" SIDE FLAIL, STANDARD ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	21499A	1	BONNET,75,HD,T3F,RT
2	TF1402A	1	BAFFLE,FLAIL,75HD,STD ROT
	TF1002A	1	CUTSHFT ASSY,75HD,STD KNIVES
3	21677	48	NYLOCK NUT,7/16 NC
4	33714	96	KNIFE,FLAIL,STANDARD
5	34011	48	CAPSCREW,7/16x3 7/16,NC GR8
6	TF1002	1	CUTTERSHAFT,90,HD
7	TF1020	48	KNIFE MTG CLEVIS,FLAIL
8	28738	1	GROUND ROLLER,75
9	TF1045B	2	STUB SHAFT,GROUND ROLLER
10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
11	TF1018	2	BEARING,FLANGE,2-3/16
	06200347	*	STRING GUARD, KIT, HD (ITEMS 12, 13, 15)
12	31204	2	STRING GUARD, HD
13	06530217	8	CAPSCREW,1/2 X 2,NC,L9
15	06533006	12	FLATWASHER,1/2,SAE,L9
16	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
17	06520029	2	O-RING,2 3/4x3/32,AS568A-148
18	06520027	2	CAP,BEARING,GRNDRLR
19	TF4333A	2	GROUND ROLLER ADJ,BRKT
20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
22	TF4336	4	PLATE,GROUND ROLLER LOCK
23	21399	2	HEX NUT,3/4 (ACME) BULK
24	TF1040	1	GUARD,CUTTER SHAFT
25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
26	23272A	1	SKID SHOE,T3F,INNER
27	TF1029	2	BAR,FLAP,TSF/TRF 75
28	TF1016	1	FLAP,DEFLECTOR,TSF/TRF 75
29	06520242	1	FLAP,75",FRONT
30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
31	22016	60	FLATWASHER,3/8
32	21625	40	HEX NUT,3/8 NC
33	6T2283	10	CARRIAGE BOLT,3/8 X 1 NC
34	6T2615	10	WASHER,FENDER 3/8
35	21732	2	CAPSCREW,1/2 X 1-3/4 NC
36	21990	23	LOCKWASHER,1/2
37	21725	23	HEX NUT,1/2 NC
38	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
39	21730	6	CAPSCREW,1/2 X 1-1/4 NC
40	23293	3	PLOW,BOLT,1/2 X 1-3/4 NC
41	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
42	6T2291	8	PLOW BOLT,1/2 X 2 NC GR5
43	21731	4	CAPSCREW,1/2 X 1-1/2 NC

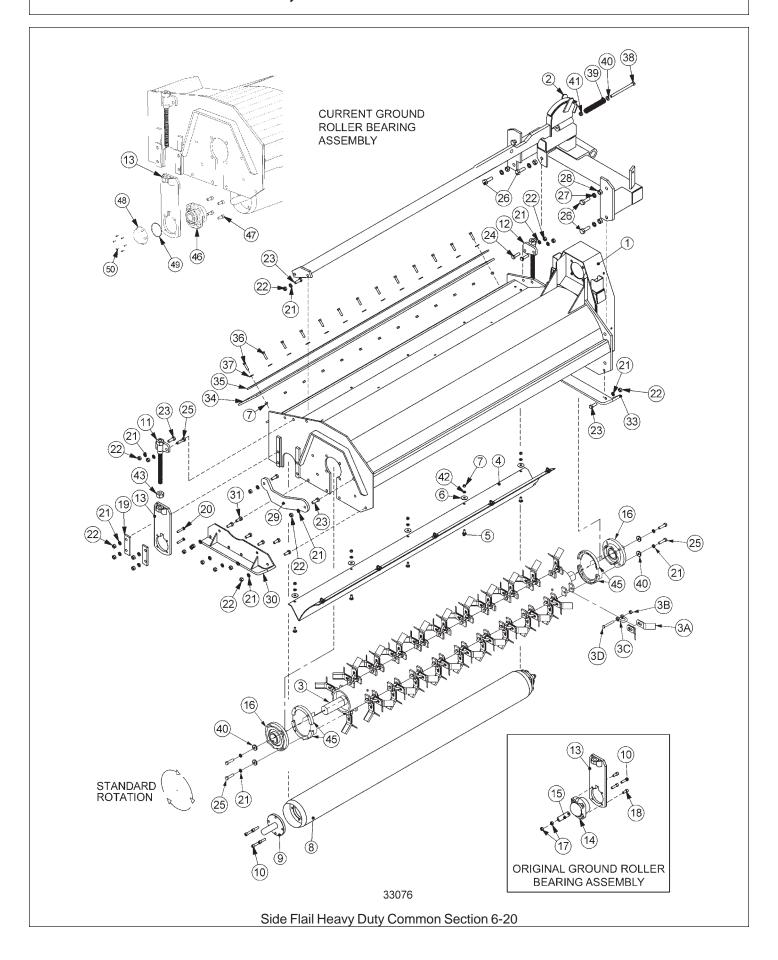
75" SIDE FLAIL, REVERSE ROTATION - COMBO



75" SIDE FLAIL REVESE ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	21499A	1	BONNET,75,HD,T3F,RT
2	TF1402A	1	BAFFLE,FLAIL,75HD (STANDARD ROTATION ONLY)
	TF1002A	1	CUTSHFT ASSY,75HD,STD KNIVE
3	21677	48	NYLOCK NUT,7/16 NC
4	33714	96	KNIFE,FLAIL,STANDARD
5	34011	48	CAPSCREW,7/16x3 7/16,NC GR8
6	TF1002	1	CUTTERSHAFT,75,HD
7	TF1020	48	KNIFE MTG CLEVIS,FLAIL
8	28738	1	GROUND ROLLER,75
9	TF1045B	2	STUB SHAFT,GROUND ROLLER
10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
11	TF1018	2	BEARING,FLANGE,2-3/16
	06200347	*	STRING GUARD,KIT,HD(ITEMS 12,13,15)
12	31204	2	STRING GUARD, HD
14	TF1019F	48	KNIFE,FLAIL (SMOOTH CUT)
13	06530217	8	CAPSCREW,1/2 X 2,NC,L9
15	06533006	12	FLATWASHER,1/2,SAE,L9
16	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
17	06520029	2	O-RING,2 3/4x3/32,AS568A-148
18	06520027	2	CAP,BEARING,GRNDRLR
19	TF4333A	2	GROUND ROLLER ADJ,BRKT
20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
22	TF4336	4	PLATE, GROUND ROLLER LOCK
23	21399	2	HEX NUT,3/4 (ACME) BULK
24	TF1040	1	GUARD, CUTTER SHAFT
25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
26	23272A	1	SKID SHOE,T3F,INNER
27	TF1029	1	BAR,FLAP,TSF/TRF 75
28	TF1016	1	FLAP, DEFLECTOR, TSF/TRF 75
29	06520242	1	FLAP,75",FRONT
30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
31	22016	60 40	FLATWASHER,3/8
32	21625 6T2292	40 10	HEX NUT,3/8 NC
33	6T2283		CARRIAGE BOLT,3/8 X 1 NC
34 35	6T2615 21732	10 2	WASHER,FENDER 3/8 CAPSCREW,1/2 X 1-3/4 NC
36	21732	23	LOCKWASHER,1/2
30 37	21725	23	HEX NUT,1/2 NC
38	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
39	21730	6	CAPSCREW, 1/2 X 1-1/4 NC
40	23293	3	PLOW,BOLT,1/2 X 1-1/4 NC
41	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
42	6T2291	8	PLOW BOLT, 1/2 X 2 NC GR5
43	21731	4	CAPSCREW,1/2 X 1-1/2 NC
44	TF1403	1	TRASH GUARD,75REV ROT-HD
45	22018	1	FLATWASHER,1/2,WIDE
46	21727	1	NYLOCK NUT,1/2 NC
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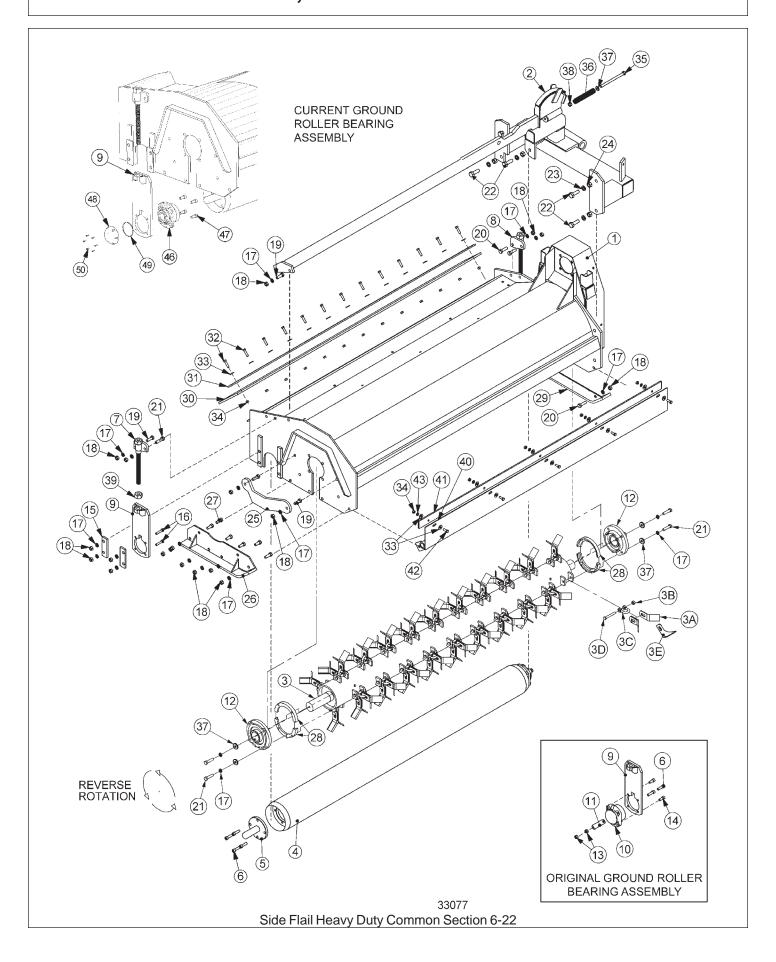
90" SIDE FLAIL, STANDARD ROTATION - CABLE



90" SIDE FLAIL, STANDARD ROTATION - CABLE

ITEM	P/N	QTY	DESCRIPTION
1	27047	1	BONNET,90,HD,TSF
2	27048A	1	MOUNTING FRAME
3	TF1102A	1	CUTTERSHAFT,ASSY,90" HD,STC
3A	33714	80	KNIFE,FLAIL,STANDARD
3B	21677	40	NYLOCK NUT,7/16" NC
3C 3D	TF1020 34011	40 40	KNIFE MTG CLEVIS,FLAIL KNIFE MTG BOLT,FLAIL
4	TF1502A	1	BAFFLE,FLAIL,90" HD,STC
5	6T2283	10	CARRIAGE BOLT,3/8" X 1"NC
6	6T2615	10	WASHER, FENDER 3/8"
7	21625	23	HEX NUT,3/8",NC
8	27972A	1	GROUND ROLLER
9	TF1045B	2	GRND ROLLER STUB SHAFT
10	6T2330	12	CAPSCREW, 7/16 x 1 1/2, SOCKET HEAD
11	TF4334	1	ROD, GROUND ROLLER ADJ, RT
12	TF4335	1	ROD,GROUND ROLLER ADJ,LF
13 14	TF4333A TF1022S	2	GROUND ROLLER ADJ BRK
15	30565	2	BEARING,FLANGE,1-3/8" BEARING CAP KEEPER
16	TF1018	2	BEARING, FLANGE, 2-3/16"
17	24701	4	HEX NUT, 7/16" NC (STOVER NUT)
18	6T2331	4	CAPSCREW, 7/16 x 1, SOCKET HEAD
19	TF4336	4	CLAMPING BLOCK, LH
20	6T2291	8	PLOW BOLT,1/2" X 2" NC
21	21990	31	LOCKWASHER, 1/2"
22	21725	23	HEX NUT, 1/2" NC
23	21731	6	CAPSCREW, 1/2 X 1 1/2,NC
24	21732	2	CAPSCREW, 1/2 x 1 3/4,NC
25 26	21733 21783	9 5	CAPSCREW, 1/2 x 2,NC CAPSCREW, 5/8 x 2,NC
20 27	21703	5	LOCKWASHER, 5/8
28	21775	5	HEX NUT, 5/8
29	TF1040	1	GUARD, CUTTER SHAFT
30	TF4371	1	SKID SHOE,L/PROFILE - OUTER
31	21730	6	CAPSCREW, 1/2 X 1 1/4,NC
33	TF4365	1	SKID SHOE,L/PROFILE - INNER
34	TF1116	1	FLAP, DEFLECTOR, TSF/TRF 90
35	TF1135	1	FLAP RETAINING BAR
36	21632	13	CAPSCREW,3/8" X 1-1/2" NC
37 38	22016 21745	13 1	FLATWASHER,3/8" CAPSCREW, 1/2 x 7,NC
39	27005	1	SPRING, PUSHOFF, SIDE RTRY
40	27938	9	BUSHING,MACH,10Dx1/2IDx14GA.
41	21727	1	NYLOCK NUT, 1/2
42	21988	10	LOCKWASHER, 3/8"
43	21399	2	HEX NUT, 3/4" (ACME THRD)
45	31204	2	STRING GUARD, HD
46	06520028	2	BEARING, FLANGE, 1 3/8"
47	6T2331	8	CAPSCREW, 7/16" X 1", SOCKET HEAD
48 40	06520027	2	CAP,BEARING, GRND ROLLER
49 50	06520029 06530001	2 12	O-RING,2 3/4" X 3/32" CAPSCREW, SKT HD
50	00030001	14	CAF SUREW, SKI HD

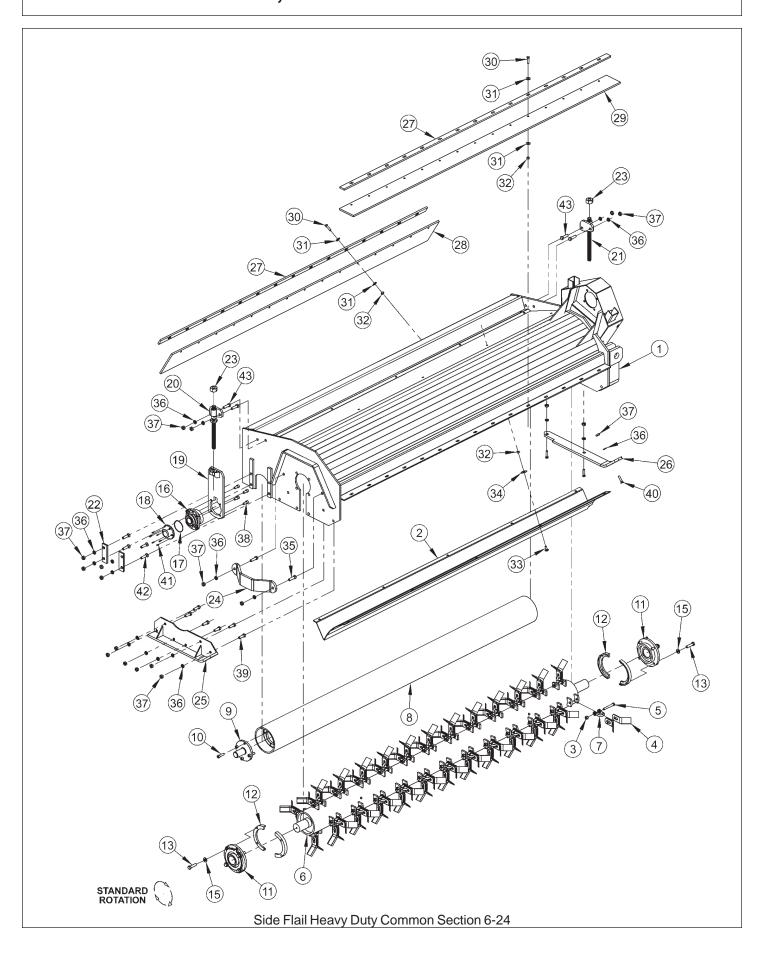
90" SIDE FLAIL, REVERSE ROTATION - CABLE



90" SIDE FLAIL, REVERSE ROTATION - CABLE

ITEM	P/N	QTY	DESCRIPTION
1	27047	1	BONNET,90,HD,TSF
2	27048A	1	MOUNTING FRAME
3	TF1102A	1	CUTTERSHAFT,ASSY,90" HD,STC
3A	33714	80	KNIFE,FLAIL,STANDARD
3B	21677	40	NYLOCK NUT,7/16" NC
3C	TF1020	40	KNIFE MTG CLEVIS,FLAIL
3D	34011	40	KNIFE MTG BOLT,FLAIL
3E	TF1019F	40	KNIFE,FLAIL (SMOOTH CUT)
4	27972A	1	GROUND ROLLER
5	TF1045B	2	GRND ROLLER STUB SHAFT
6	6T2330	12	CAPSCREW, 7/16 x 1 1/2, SOCKET HEAD
7	TF4334	1	ROD, GROUND ROLLER ADJ, RT
8 9	TF4335	1	ROD,GROUND ROLLER ADJ,LF
10	TF4333A TF1022S	2 2	GROUND ROLLER ADJ BRK BEARING,FLANGE,1-3/8"
11	30565	2	BEARING CAP KEEPER
12	TF1018	2	BEARING,FLANGE,2-3/16"
13	24701	4	HEX NUT, 7/16" NC (STOVER NUT)
14	6T2331	4	CAPSCREW, 7/16 x 1, SOCKET HEAD
15	TF4336	4	CLAMPING BLOCK, LH
16	6T2291	8	PLOW BOLT,1/2" X 2" NC
17	21990	31	LOCKWASHER, 1/2"
18	21725	23	HEX NUT, 1/2" NC
19	21731	6	CAPSCREW, 1/2 X 1 1/2,NC
20	21732	3	CAPSCREW, 1/2 x 1 3/4,NC
21	21733	9	CAPSCREW, 1/2 x 2,NC
22 23	21783	5 5	CAPSCREW, 5/8 x 2,NC LOCKWASHER, 5/8
23 24	21992 21775	5	HEX NUT, 5/8
25	TF1040	1	GUARD, CUTTER SHAFT
26	TF4371	1	SKID SHOE,L/PROFILE - OUTER
27	21730	5	CAPSCREW, 1/2 X 1 1/4,NC
28	31204	2	STRING GUARD, HD
29	TF4365	1	SKID SHOE,L/PROFILE - INNER
30	TF1116	1	FLAP,DEFLECTOR,TSF/TRF 90
31	TF1135	1	FLAP RETAINING BAR
32	21632	13	CAPSCREW,3/8" X 1-1/2" NC
33	22016	23	FLATWASHER,3/8"
34 35	21625 21745	18 1	HEX NUT,3/8",NC CAPSCREW, 1/2 x 7,NC
36	27005	1	SPRING, PUSHOFF, SIDE RTRY
37	27938	9	BUSHING, MACH, 10Dx1/2IDx14GA.
38	21727	1	NYLOCK NUT, 1/2
39	21399	2	HEX NUT, 3/4" (ACME THRD)
40	TF1503	1	FRONT TRASH GUARD
41	21358	1	BAR, TRASH GUARD
42	21630	5	CAPSCREW, 3/8 x 1,NC
43	21988	5	LOCKWASHER, 3/8"
46	06520028	2	BEARING,FLANGE, 1 3/8"
47	6T2331	8	CAPSCREW, 7/16" X 1", SOCKET HEAD
48	06520027	2	CAP,BEARING, GRND ROLLER
49 50	06520029	2	O-RING,2 3/4" X 3/32"
50	06530001	12	CAPSCREW, SKT HD

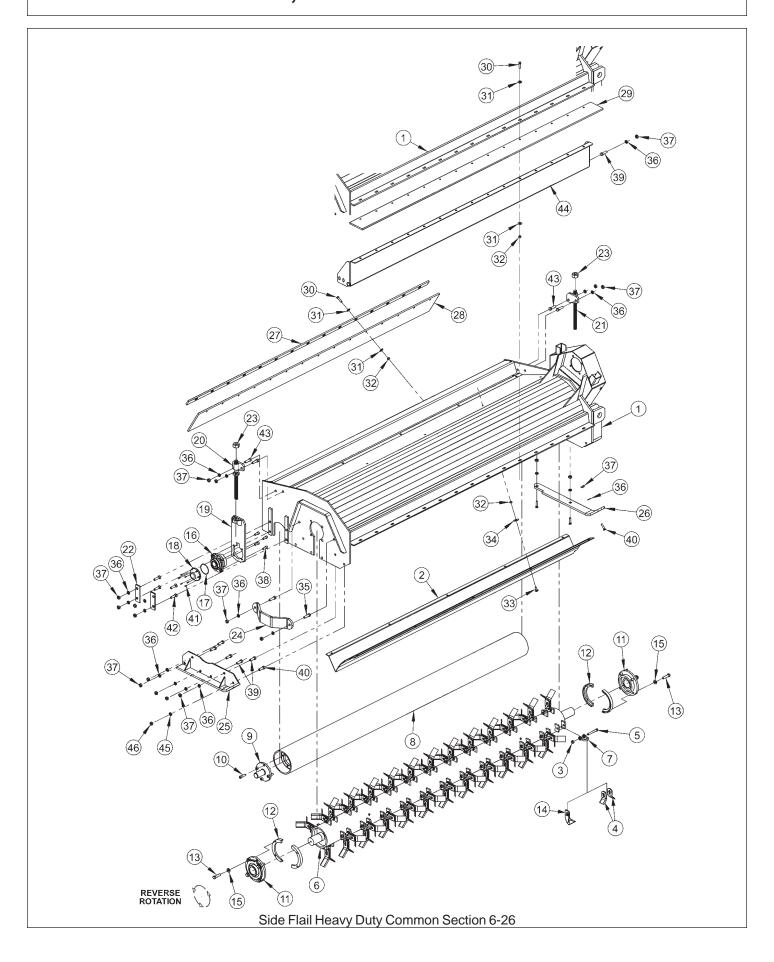
90" SIDE FLAIL, STANDARD ROTATION - COMBO



90" SIDE FLAIL, STANDARD ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	22083A	1	BONNET,90,HD,T3F,RT
2	TF1502A	1	BAFFLE,FLAIL,90HD,STD ROT
	TF1102A	1	CUTSHFT ASSY,90HD,STD KNIVES
3	21677	48	NYLOCK NUT,7/16 NC
4	33714	96	KNIFE,FLAIL,STANDARD
5	34011	48	CAPSCREW,7/16x3 7/16,NC GR8
6	TF1102	1	CUTTERSHAFT,90,HD
7	TF1020	48	KNIFE MTG CLEVIS,FLAIL
8	27972A	1	GROUND ROLLER,90
9	TF1045B	2	STUB SHAFT, GROUND ROLLER
10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
11	TF1018	2	BEARING, FLANGE, 2-3/16
40	06200347		STRING GUARD, KIT, HD(ITEMS 12,13,15)
12	31204	2 8	STRING GUARD, HD
13 15	06530217	o 12	CAPSCREW,1/2 X 2,NC,L9 FLATWASHER,1/2,SAE,L9
16	06533006 06520028	2	BEARING, FLANGE, 13/8, GRNDRLR
17	06520029	2	O-RING,2 3/4x3/32,AS568A-148
18	06520029	2	CAP,BEARING,GRNDRLR
19	TF4333A	2	GROUND ROLLER ADJ,BRKT
20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
22	TF4336	4	PLATE, GROUND ROLLER LOCK
23	21399	2	HEX NUT,3/4 (ACME) BULK
24	TF1040	_ 1	GUARD,CUTTER SHAFT
25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
26	23272A	1	SKID SHOE,T3F,INNER
27	TF1135	2	BAR,FLAP,TSF/TRF 90
28	TF1116	1	FLAP, DEFLECTOR, TSF/TRF 90
29	06520243	1	FLAP,90",FRONT
30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
31	22016	60	FLATWASHER,3/8
32	21625	40	HEX NUT,3/8 NC
33	6T2283	10	CARRIAGE BOLT,3/8 X 1 NC
34	6T2615	10	WASHER,FENDER 3/8
35	21732	2	CAPSCREW,1/2 X 1-3/4 NC
36	21990	23	LOCKWASHER,1/2
37	21725	23	HEX NUT,1/2 NC
38	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
39	21730	6	CAPSCREW,1/2 X 1-1/4 NC
40	23293	3	PLOW,BOLT,1/2 X 1-3/4 NC
41	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
42	6T2291	8	PLOW BOLT,1/2 X 2 NC GR5
43	21731	4	CAPSCREW,1/2 X 1-1/2 NC

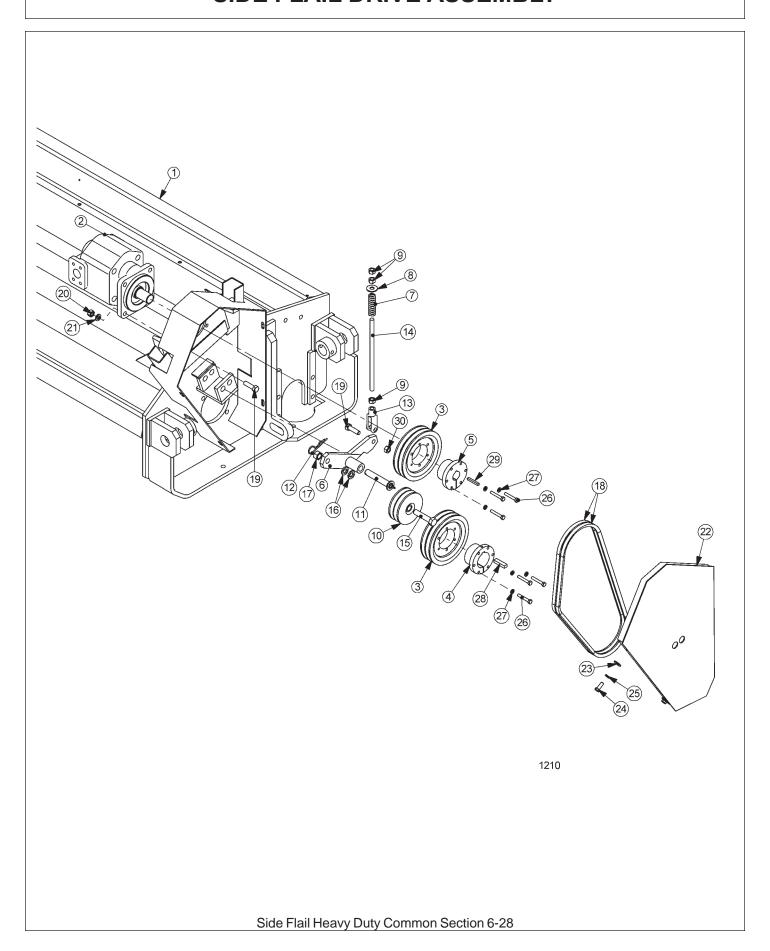
90" SIDE FLAIL, REVERSE ROTATION - COMBO



90" SIDE FLAIL, REVERSE ROTATION - COMBO

ITEM	P/N	QTY	DESCRIPTION
1	22083A	1	BONNET,90,HD,T3F,RT
1	22084A	1	BONNET 90" T3F
2	TF1502A	1	BAFFLE,FLAIL,90HD (STANDARD ROTATION ONLY)
	TF1102A	1	CUTSHFT ASSY,90HD,STD KNIVES
3	21677	48	NYLOCK NUT,7/16 NC
4	33714	96	KNIFE,FLAIL,STANDARD
5	34011	48	CAPSCREW,7/16x3 7/16,NC GR8
6	TF1102	1	CUTTERSHAFT,90,HD
7	TF1020	48	KNIFE MTG CLEVIS,FLAIL
8	27972A	1	GROUND ROLLER,90
9	TF1045B	2	STUB SHAFT,GROUND ROLLER
10	6T2330	8	CAPSCREW,SKT HD,7/16X1-1/2NC
11	TF1018	2	BEARING, FLANGE, 2-3/16
	06200347	*	STRING GUARD,KIT,HD(ITEMS 12,13,15)
12	31204	2	STRING GUARD, HD
13	06530217	8	CAPSCREW,1/2 X 2,NC,L9
14	TF1019F	48	KNIFE,FLAIL (SMOOTH CUT)
15	06533006	12	FLATWASHER,1/2,SAE,L9
16	06520028	2	BEARING,FLANGE,1 3/8,GRNDRLR
17		2	O-RING,2 3/4x3/32,AS568A-148
18	06520027	2	CAP,BEARING,GRNDRLR
19	TF4333A	2	GROUND ROLLER ADJ,BRKT
20	TF4334	1	ROD,GROUND ROLLER ADJ,RT
21	TF4335	1	ROD,GROUND ROLLER ADJ,LF
22		4	PLATE, GROUND ROLLER LOCK
23	21399	2	HEX NUT,3/4 (ACME) BULK
24	TF1040	1	GUARD, CUTTER SHAFT
25	TF4371	1	SKID SHOE,L/PROFILE-OUTER
26	23272A	1	SKID SHOE,T3F,INNER
27		1	BAR,FLAP,TSF/TRF 90
28	TF1116	1	FLAP,DEFLECTOR,TSF/TRF 90
29	06520243	1	FLAP,90",FRONT
30	21632	30	CAPSCREW,3/8 X 1-1/2 NC
31	22016	60	FLATWASHER,3/8
32	21625	40	HEX NUT,3/8 NC
33	6T2283	10	CARRIAGE BOLT,3/8 X 1 NC
34	6T2615	10	WASHER, FENDER 3/8
35	21732	2	CAPSCREW,1/2 X 1-3/4 NC
36	21990	23	LOCKWASHER,1/2
37	21725	23	HEX NUT,1/2 NC
38	6T2331	8	CAPSCREW,SKT HD,7/16 X 1 NC
39	21730	6	CAPSCREW,1/2 X 1-1/4 NC
40	23293	3	PLOW,BOLT,1/2 X 1-3/4 NC
41	06530001	12	CAPSCREW,SKT HD,8-32x1/2,SS
42	6T2291	8	PLOW BOLT, 1/2 X 2 NC GR5
43	21731	4	CAPSCREW,1/2 X 2 NC GRS
43 44	TF1503	1	TRASH GUARD,90REV ROT-HD
44 45	22018	1	FLATWASHER,1/2,WIDE
45 46	21727	1	NYLOCK NUT,1/2 NC
+0	<u> </u>	ı	NI LOOK NOT, 1/2 NO

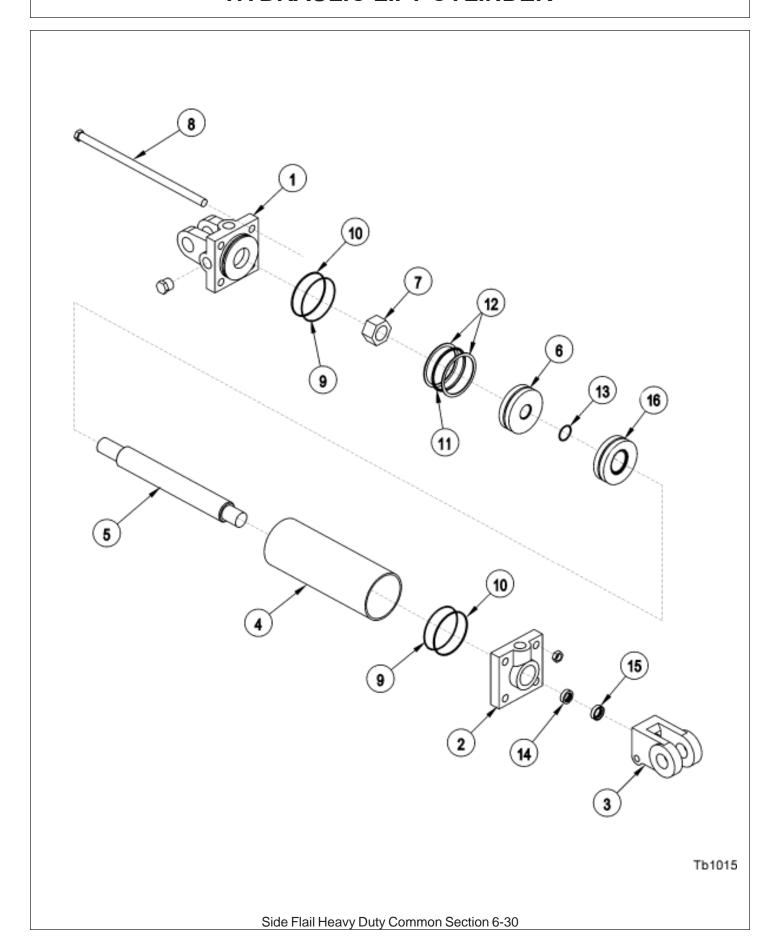
SIDE FLAIL DRIVE ASSEMBLY



SIDE FLAIL DRIVE ASSEMBLY

ITEM	P/N	QTY	DESCRIPTION
1	*	REF	BONNET - REFER TO FLAIL PARTS
2	06504013	1	CURRENT MOTOR,TSF
	23174	1	ORIGINAL MOTOR,TSF
2	TF4400	1	MOTOR, T3F
3	TF3040	2	SHEAVE,6.3
4	TF3011	1	BUSHING,QD,SK,2-3/16"
5	TF3013	1	BUSHING,QD,SK 1-1/4"
6	TF4345	OPT.	IDLER ARM (REVERSE ROTATION - NOT SHOWN)
	6	TF4346	1 IDLER ARM (STANDARD ROTATION)
7	TF3620A	1	SPRING,TENSIONER
8	22018	1	FLATWASHER,1/2",WIDE
9	21700	3	HEX NUT, 1/2", NF
10	31293	1	SHEAVE,IDLER ASSY, 4.4 O.D.
11	TF3605	1	PIN,IDLER ARM 3/4"X4-1/4"
12	6T3004	1	R-CLIP (HAIRPIN COTTER, 3/16")
13	PT3611A	1	CLEVIS,6"
14	32494	1	ROD, THREADED, 1/2-20NF
15	21787	1	CAPSCREW,5/8" x 3", NC
16	21992	2	LOCKWASHER, 5/8
17	21775	1	HEX NUT, 5/8
18	TF3020	2	V-BELT, (530)
19	21732	5	CAPSCREW, 1/2 x 1 3/4,NC
20	21725	4	HEX NUT, 1/2" NC
21	21990	4	LOCKWASHER, 1/2"
22	TF4564	1	BELT SHEILD (RIGHT)
22	TF4565	1	BELT SHEILD (LEFT)
23	22016	4	FLATWASHER,3/8"
24	21630	4	CAPSCREW, 3/8 x 1,NC
25	21988	4	LOCKWASHER, 3/8"
26	21584	6	CAPSCREW, 5/16 x 2,NC
27	21987	6	LOCKWASHER, 5/16"
28	TF1025	1	KEY,1/4" X 1/2" X 1-7/8" SQ
29	TF1125	1	KEY,3/8" X 1/2" X 1-7/8" SQ
30	21727	1	NYLOCK NUT, 1/2

HYDRAULIC LIFT CYLINDER



HYDRAULIC LIFT CYLINDER

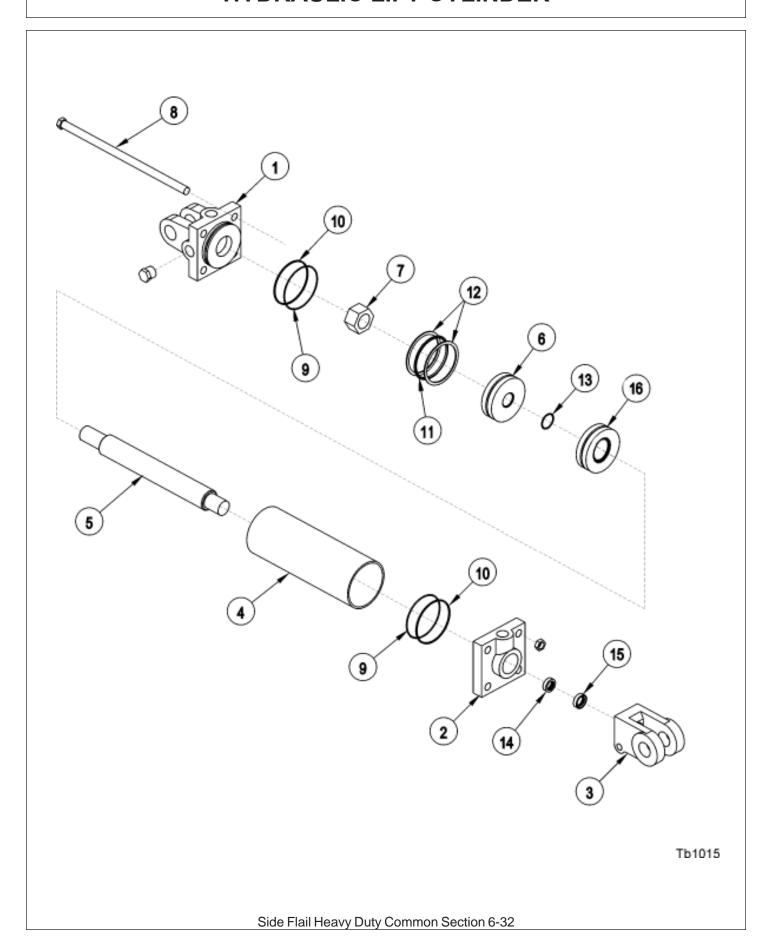
3" X 10" CYLINDER #6T0151R

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
16	NA		NA

3" X 11.5" CYLINDER #25343

ITEM	PART NO. 6T0167	QTY.	DESCRIPTION CYLINDER BUTT
1	6T0170	1	CYLINDER BUTT CYLINDER GLAND
2		1	
3	6T0178	l	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
16	6T0206	1	SPACER

HYDRAULIC LIFT CYLINDER

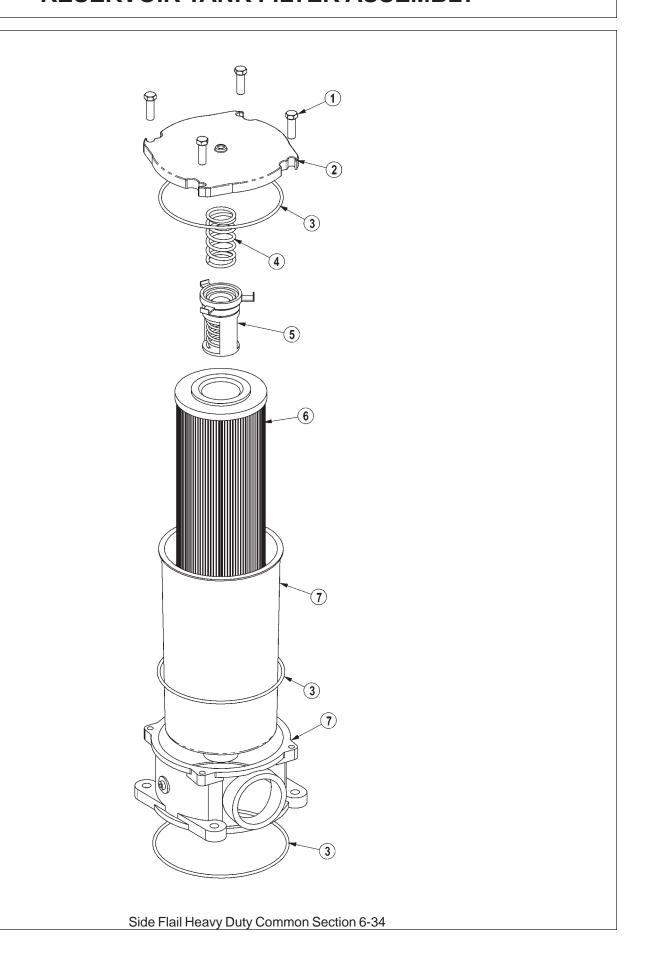


HYDRAULIC LIFT CYLINDER

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

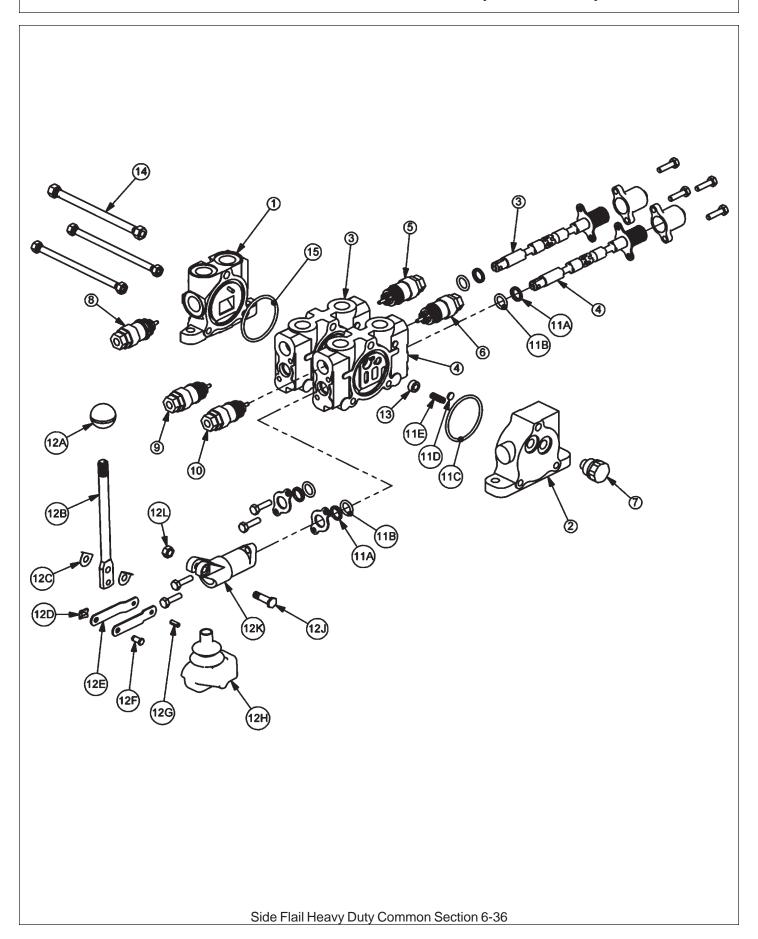
RESERVOIR TANK FILTER ASSEMBLY



RESERVOIR TANK FILTER ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	AVAIL	FILTER ASSY SAE 10 MICRON
1	28583	4	CAPSCREW,8MMX25MM(1.25 PITCH)
2	06505045	1	COVER
3	06505046	1	SEAL KIT
4	06505047	1	SPRING
5	06505048	1	BYPASS
6	35259	1	FILTER,10 MIC,RETURN LINE
7	06505049	1	CAN/BODY

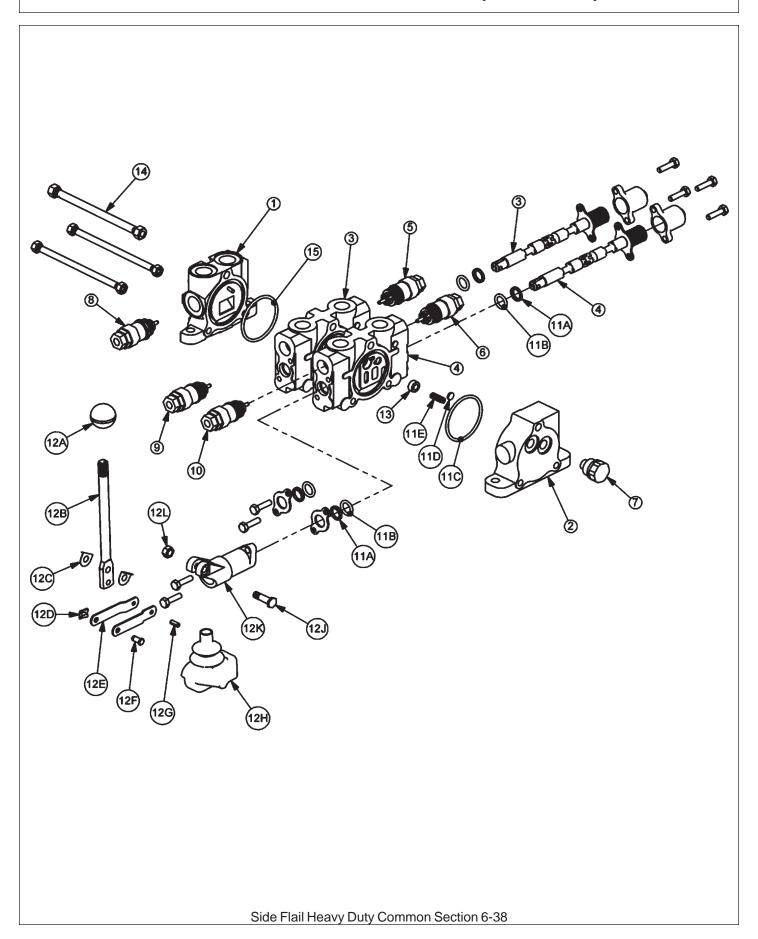
2SP HUSCO - LOAD SENSE (06502040)



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 11C 11D 11E	31593	2 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 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

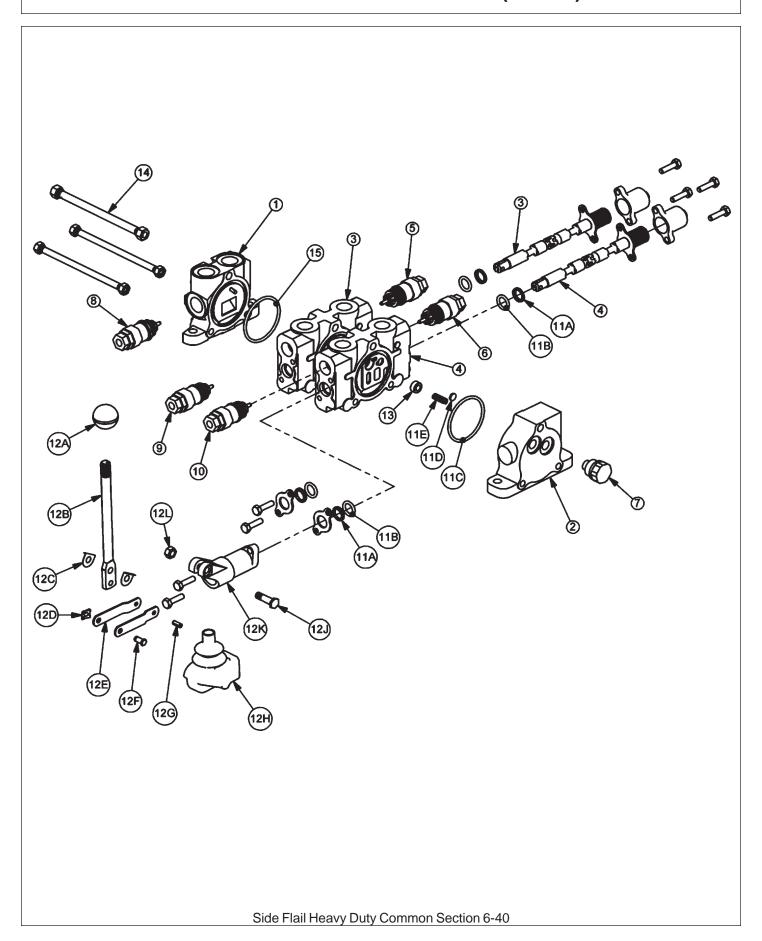
2SP HUSCO - LOAD SENSE (06502042)



2SP HUSCO - LOAD SENSE (06502042)

ITEM		PART NO.	QTY	DESCRIPTION
1 2 3 4		31595 31594 31600 31600 06503067	1 1 1 1	INLET END COVER END COVER, LOAD SENSE VALVE SECTION (DOUBLE ACTING, DETENT FLOAT) VALVE SECTION (DOUBLE ACTING, DETENT FLOAT) (REMOVE SHUTTLE DISC) RELIEF PLUG
6 7 8 9 10		31861 06503068 6T4209 31862 31862	1 1 1 1	RELIEF VALVE 360 PSI RELIEF PLUG RELIEF VALVE, 2175 PSI RELIEF VALVE, 2175 PSI
	11A 11B 11C 11D 11E	31593	2 2 2 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SHUTTLE DISC SPRING
	12A 12B 12C 12D 12E 12F 12G 12H 12J 12K 12L	TB1017L	2 1 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

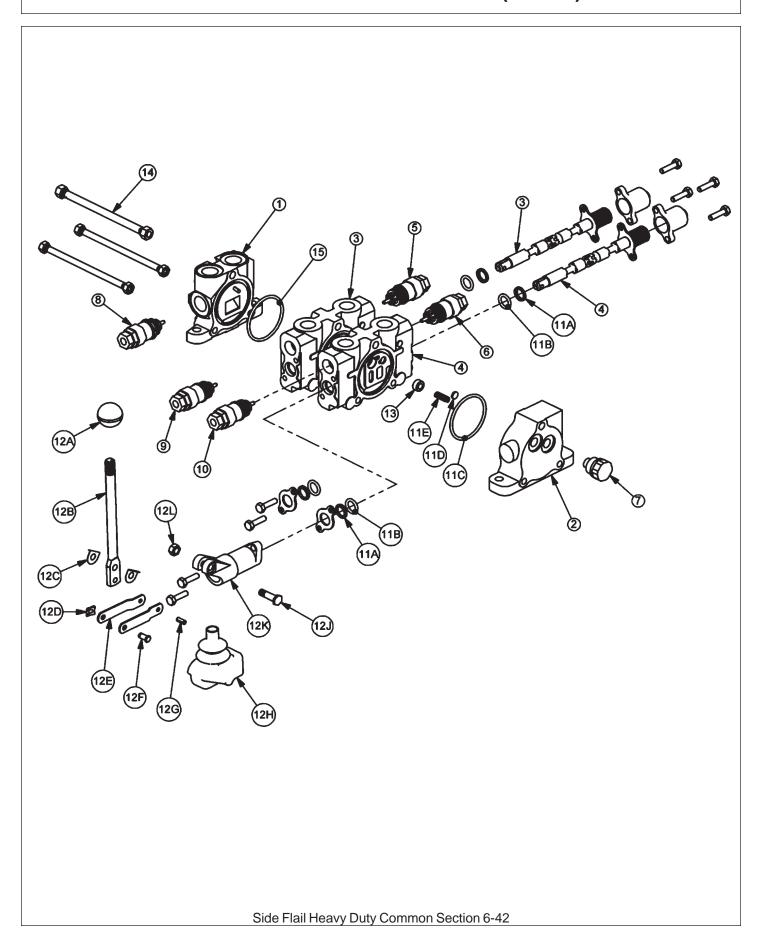
2SP HUSCO - LOAD SENSE (31320)



2SP 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	
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6 7	06503067	1	RELIEF PLUG
8	N/A 6T4209	- 1	N/A RELIEF PLUG
9	31862	1	RELIEF FLOG RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
.0	0.002	•	112121 171212, 2110101
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K 12L		1 1	LEVER DUST COVER LEVER NUT
ı∠L		ı	LEVERINOT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

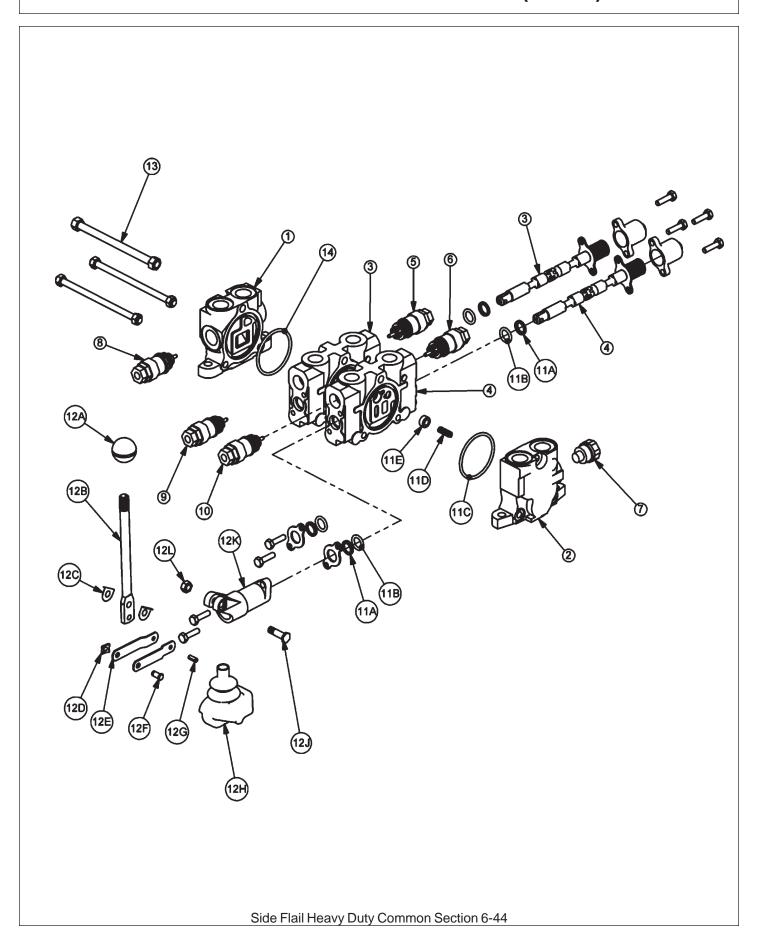
2SP HUSCO - LOAD SENSE (31322)



2SP HUSCO - LOAD SENSE (31322)

ITEM	PART NO.	QTY	DESCRIPTION
1 2 3 4 5 6 7 8 9	31595 31594 31600 31600 06503067 31861 N/A 6T4209 31862 31862	1 1 1 1 1 1 1 -	INLET END COVER END COVER, LOAD SENSE VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) RELIEF PLUG RELIEF VALVE, 360 PSI N/A RELIEF PLUG RELIEF VALVE, 2175 PSI RELIEF VALVE, 2175 PSI
11 11A 11B 11C 11D 11E	31593	2 2 2 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SHUTTLE DISC SPRING
12A 12B 12C 12D 12E 12F 12G 12H 12J 12K 12L	TB1017L	2 1 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

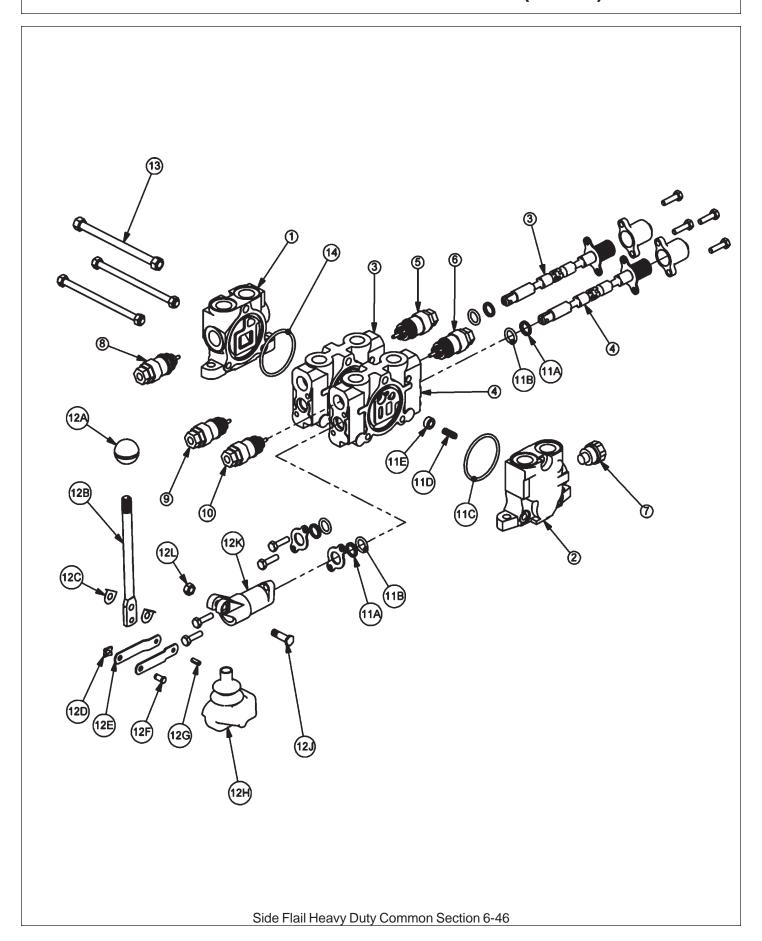
2SP HUSCO - POWER BEYOND (30198)



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	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 11C	3 ;)	2 2 2 1 1	VALVE SEAL KIT (FOR ONE SECTION) WIPER O-RING SMALL O-RING LARGE SPRING PUCKET
12 12A 12C 12C 12C 12E 12C 12C 12L 12J 12L	3 5 6 7 8 8 8	2 1 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

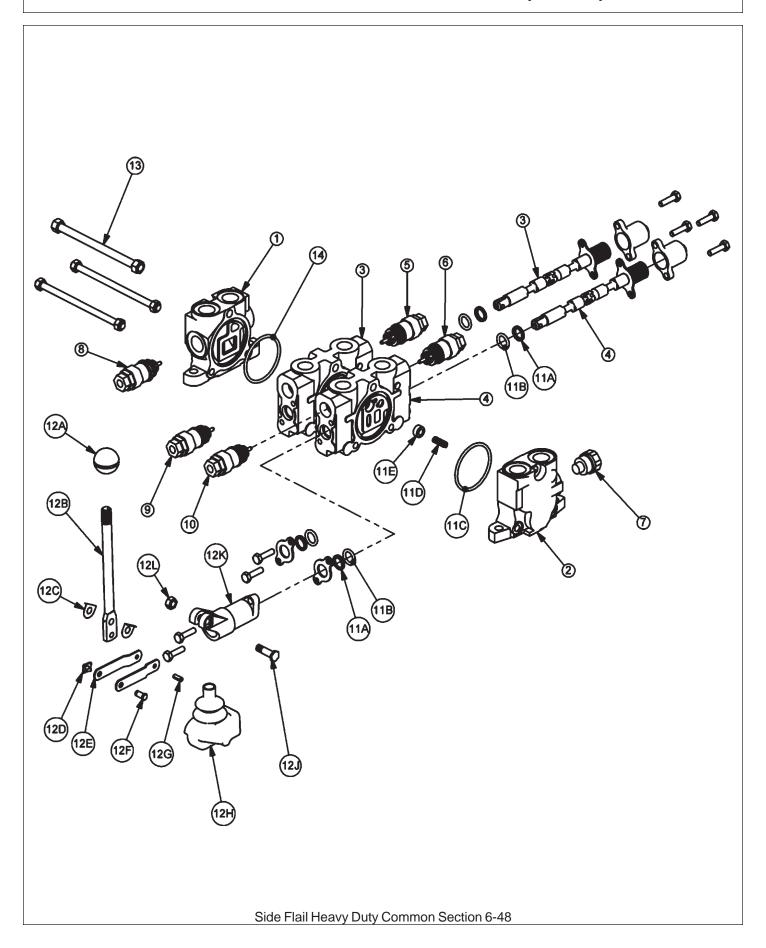
2SP HUSCO - POWER BEYOND (30801)



2SP HUSCO - POWER BEYOND (30801)

ITEM PART NO. QTY DESC	RIPTION
1 TB1017S 1 INLET E	END COVER
2 TB1702 1 END CO	OVER, POWER BEYOND
3 TB1017P 1 VALVE	SECTION (SINGLE ACTING, SPRING DETENT)
	SECTION (DOUBLE ACTING, CENTER SPRING)
(NO AU	X VALVE PORTS)
5 N/A - N/A	,
6 N/A - N/A	
7 TB1017M 1 SHUT-0	OFF PLUG
8 TB1017E 1 RELIEF	VALVE, 2250 PSI
9 TB1017M 1 SHUT-0	OFF PLUG
10 N/A - N/A	
44 TR4047A 0 VALVE	OF ALLICIT (FOR ONE OF OTION)
	SEAL KIT (FOR ONE SECTION)
11A 2 WIPER	
	SMALL
	BLARGE
11D 1 SPRING	
11E 1 PUCKE	1
12 TB1017L 2 LEVER	KIT (FOR ONE SECTION)
12A 1 LEVER	· ·
12B 1 LEVER	
12C 2 LEVER	WASHER
12D 1 LEVER	CLIP
12E 2 LINKAG	SE SE
12F 1 LEVER	PIN
12G 1 ROLL P	PIN
12H 1 LEVER	BOOT
12J 1 LEVER	BOLT
12K 1 LEVER	DUST COVER
12L 1 LEVER	NUT
13 TB1017X 1 TIE RO	D KIT
14 24214 1 O-RING	S, LARGE

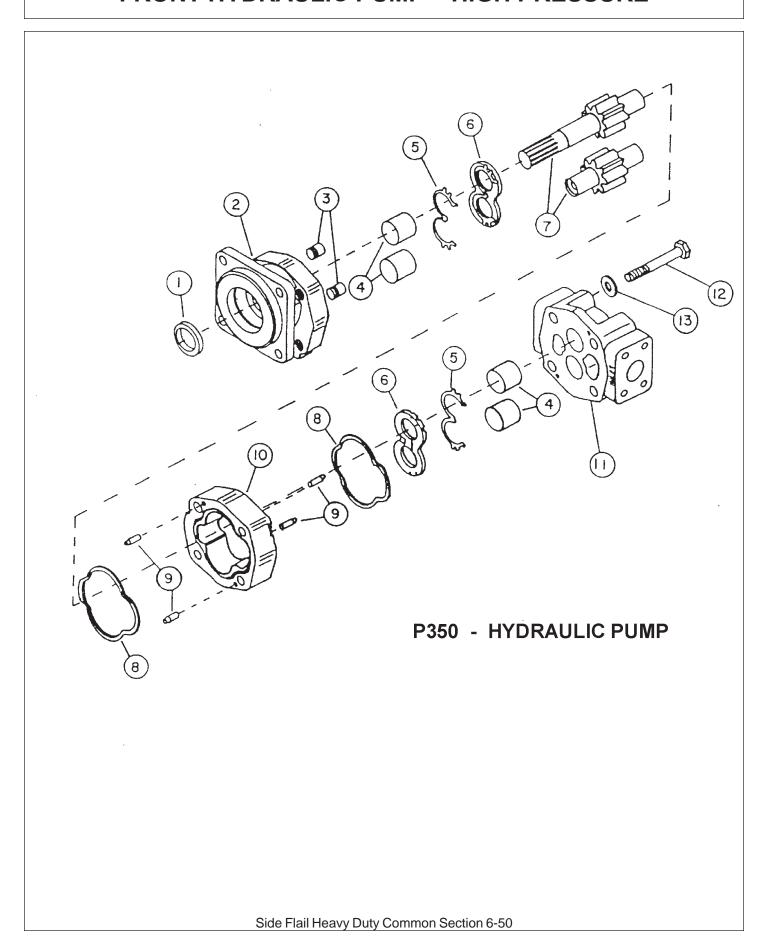
2SP HUSCO - POWER BEYOND (31752)



2SP HUSCO - POWER BEYOND (31752)

1 2 3 4 5 6 7 8 9 10	I	PART NO. TB1017S TB1702 TB1017P TB1017P N/A N/A TB1017M TB1017E TB1017M TB1017M	QTY 1 1 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 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 1 2 1 2 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

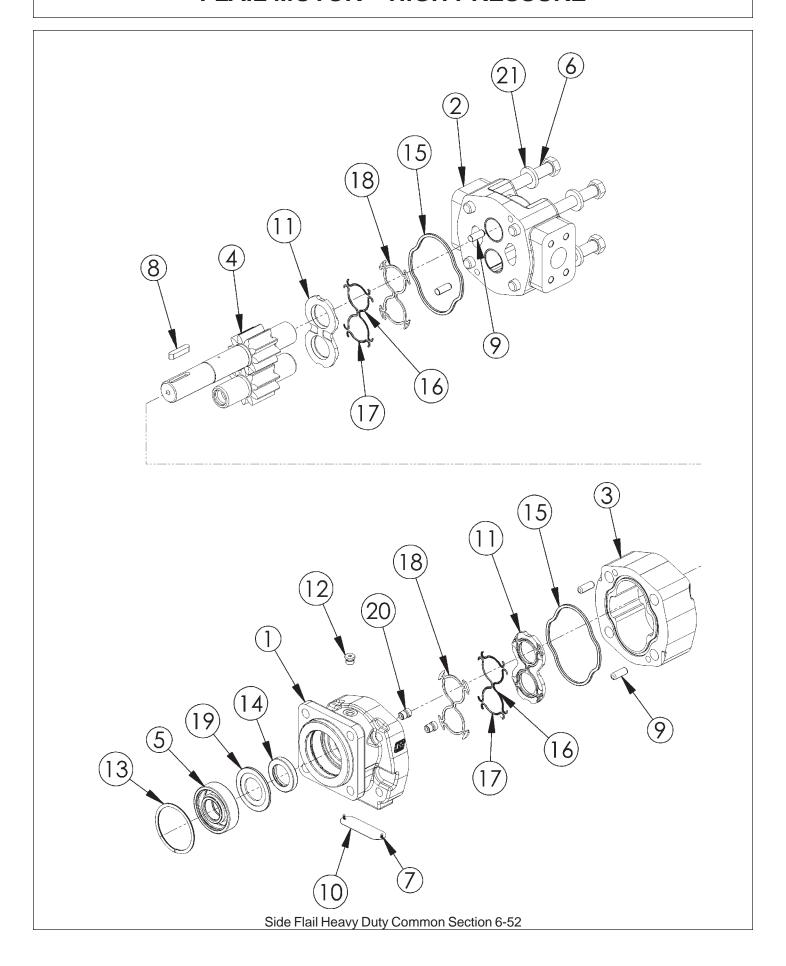
FRONT HYDRAULIC PUMP - HIGH PRESSURE



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	
=	6T5322	AVAIL	
	24150	AVAIL	SEAL KIT (INCLUDES 1, 5, 6 AND 8)

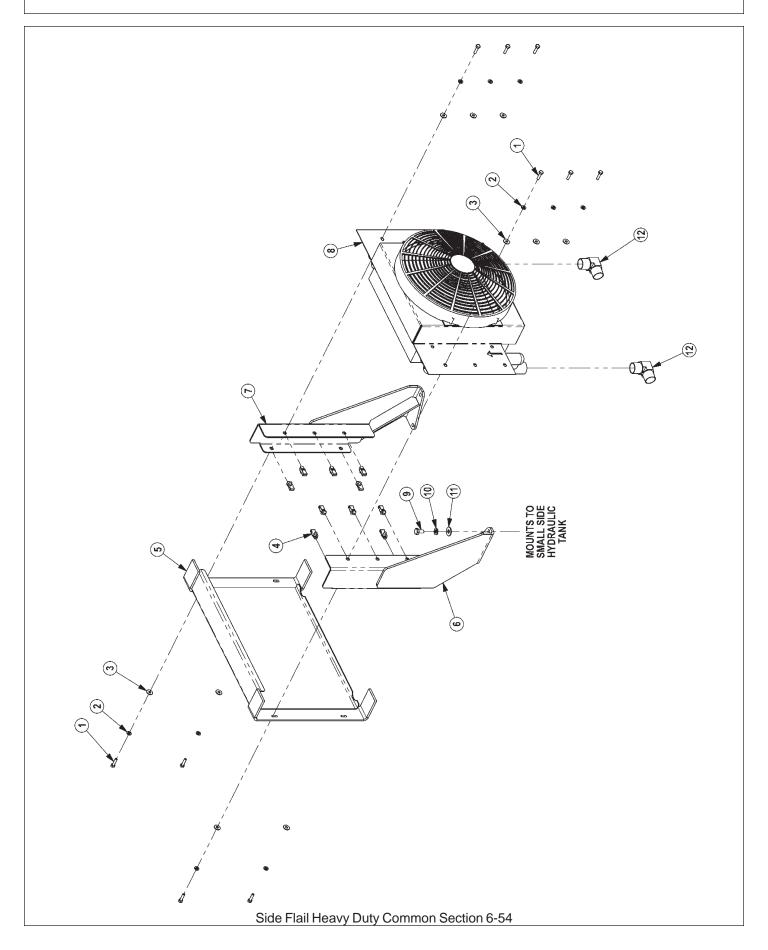
FLAIL MOTOR - HIGH PRESSURE



FLAIL MOTOR - HIGH PRESSURE

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504013	AVAIL	MOTOR ASSEMBLY 350 - TSF
1	06504039	1	SHAFT END COVER
2	06504040	1	PORT END COVER
	06504041		GEAR HOUSING
4	06504042	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044		SET SCREW
8	06504028	1	KEY
	06504045	4	DOWEL PIN
10		1	NAMEPLATE
11	763759	2	THRUSTPLATE
	02961940	1	HEX PLUG
13	TF4401	1	SNAP RING
	06504049	1	LIP SEAL (INCLUDED IN SEAL KIT)
	TF4410	2	GASKET SEAL (INCLUDED IN SEAL KIT)
16	06504046	4	SIDE SEAL (INCLUDED IN SEAL KIT)
17	06504047		END SEAL (INCLUDED IN SEAL KIT)
18	TF4407	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
19	06504048	1	SEAL RETAINER
	6T5809	2	CHECKASSEMBLY
21	02961917		WASHER
*	06504022	AVAIL	SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

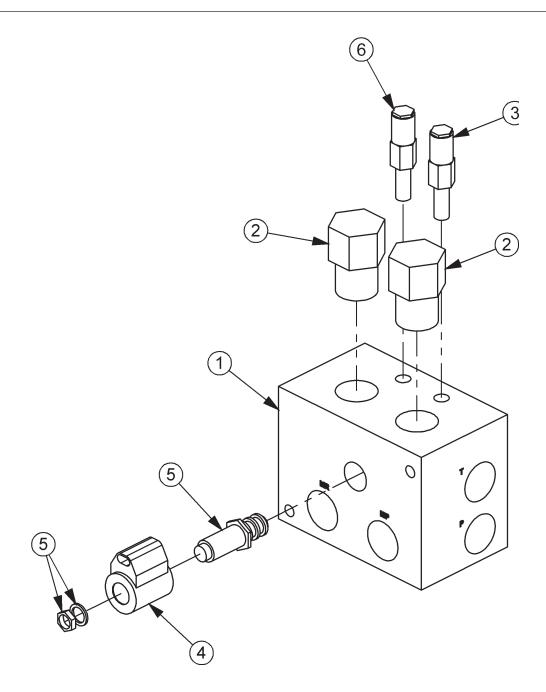
SIDE COOLER



SIDE COOLER

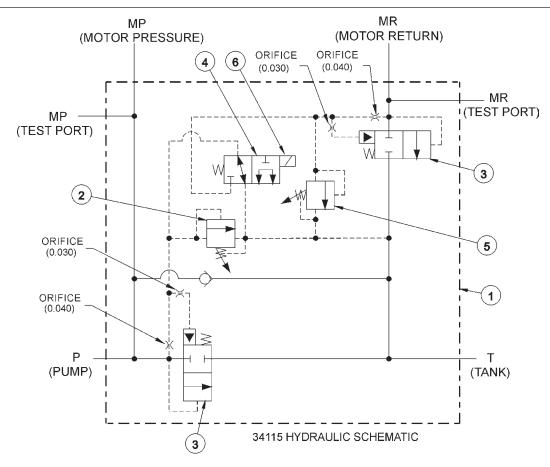
ITEM	PART NO.	QTY.	DESCRIPTION
1	21530	10	CAPSCREW,1/4 X1 NC
2	21986	10	LOCKWASHER,1/4
3	22014	10	FLATWASHER,1/4
4	35176	10	1/4 U-NUT
5	06370015	1	SCREEN,COOLER,FRNT
6	06380006	1	MNT,COOLER,BUMPER TANK,RH
7	06380007	1	MNT,COOLER,BUMPER TANK,LH
8	06510026	1	COOLER, FRONT MNT
9	21629	4	CAPSCREW,3/8 X 3/4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

BRAKE VALVE ASSEMBLY W/ METRI PAK



ITEM	PART NO.	QTY.	DESCRIPTION
1	34092	1	BRAKE VALVE, BLANK
2	34094	2	LOGICELEMENT
3	34095	1	RELIEF VALVE, 3500 PSI
4	06510095	1	METRI PAK COIL
5	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
6	34091	1	RELIEF VALVE, 2600 PSI

SOLENOID BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

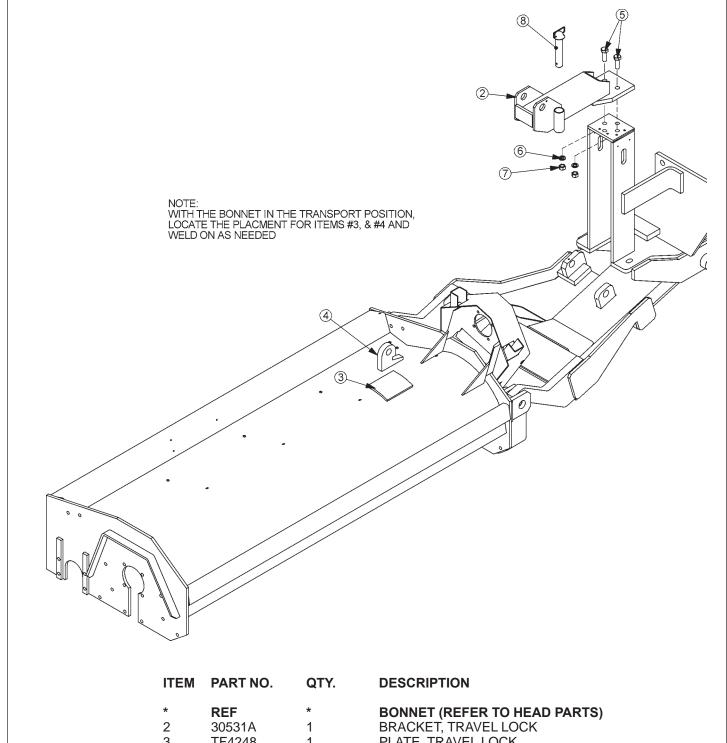
FAILURE MODE:	CHECK STEPS

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

CORRECTIVE STEPS:

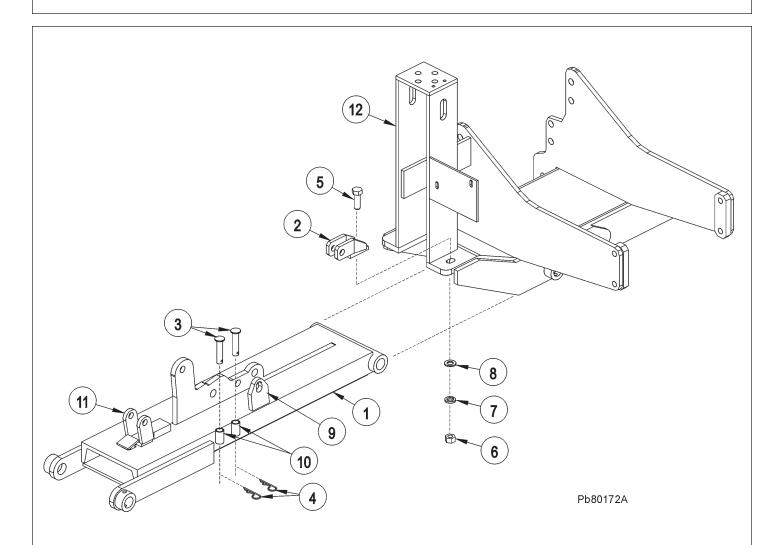
- 1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
- 2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
- 3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
- 4. Remove, inspect 3000 psi relief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

SIDE FLAIL TRAVEL LOCK



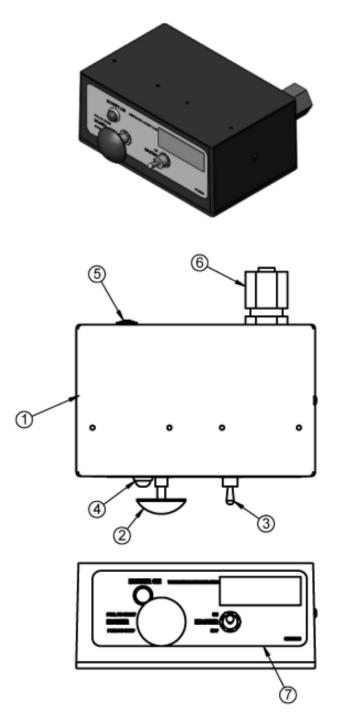
ITEM	PART NO.	QTY.	DESCRIPTION
*	REF	*	BONNET (REFER TO HEAD PARTS)
2	30531A	1	BRACKET, TRAVEL LOCK
3	TF4248	1	PLATE, TRAVEL LOCK
4	23745	1	TRAVEL LOCK HOOK
5	21783	2	CAPSCREW,5/8"x2" NC
6	21992	2	LOCKWASHER, 5/8"
7	21775	2	HEX NUT, 5/8" NC
8	TF4250	1	PIN, TRAVEL LOCK

TRAVEL LOCK LIFT BEAM



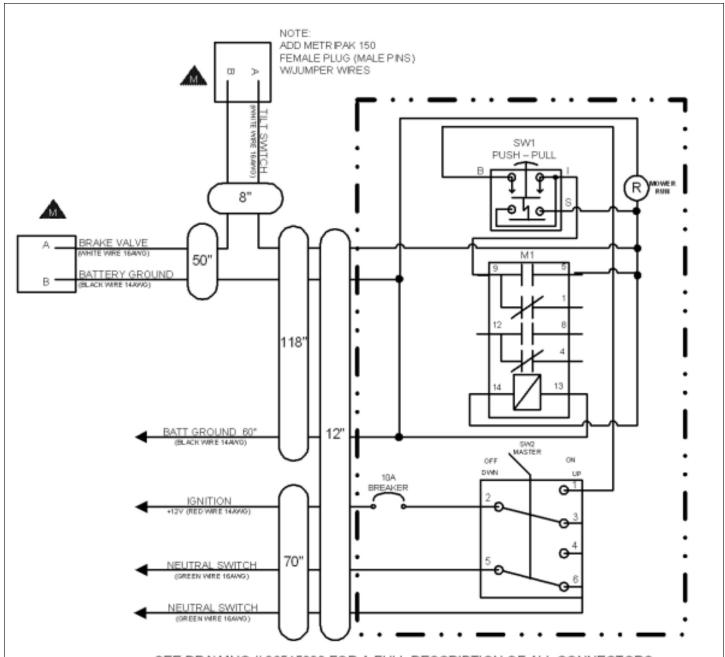
ITEM	PART NO.	QTY.	DESCRIPTION
1 2 3 4 5 6 7 8 9	PART NO. 6T0105 6T0106 6T0107 6T3020 21833 21825 21993 22021 22600	QTY. 1 1 2 2 1 1 1 1 1 1	DESCRIPTION DRAFT BEAM (STD WITH TRAVEL LOCKS) TRAVEL LOCK BRACKET TRAVEL LOCK PINS 3/4" X 3 1/4" R - CLIP 5/32" CAPSCREW 3/4" X 2 1/4" HEX NUT 3/4" LOCK WASHER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

SWITCHBOX SERVICE PARTS



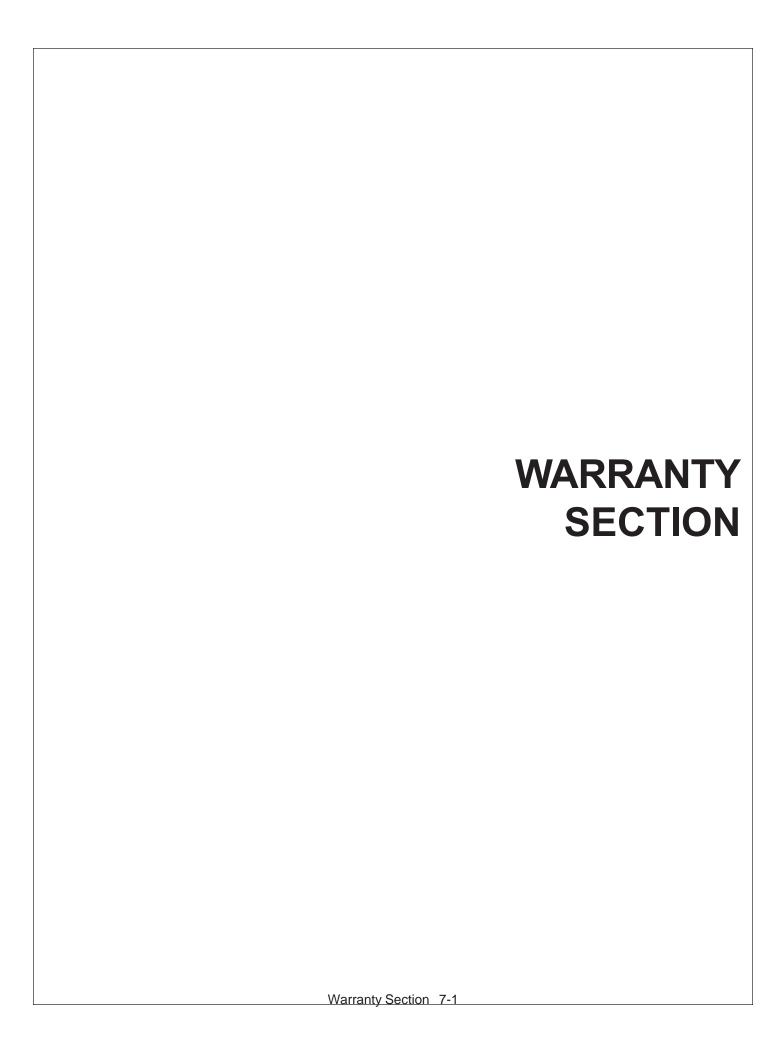
ITEM	P/N	QTY.	DESCRIPTION
1	06514013	1	SWBX,ALUM,BLK,06510102
2	35226	1	SWITCH, MOWER, COLEHERSEE
3	33811	1	SWITCH, MASTER/DECK FLOAT
4	6T3923	1	INDICTATOR LIGHT, ON, RED
5	06514014	1	BREAKER,10A,SWBX
6	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
7	06550018	1	DECAL,SWTCHBX,TM/TSF,CG
8	35227	1	RELAY,DP,DT,12V,LY2F,35226

SWITCHBOX SCHEMATIC



SEE DRAWING # 06515000 FOR A FULL DESCRIPTION OF ALL CONNECTORS





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

