

BOOM ASSEMBLIES

JD 72-7510

Current as of 07/01/2010



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

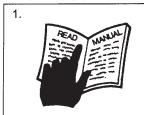
All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached 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, dailycare, 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 it 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 	e problem yourself,	condict your loca	al Tiger Dealer after
gathering:			
 Machine model 			

Serial numberDealer name

• Detailed information about the problem including results of troubleshooting

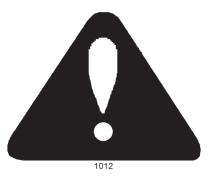
Attention Owner / Operator / Dealer It is your obligation to read, and understand, the warranty information section located at the back of this manual denoting that the purchaser understands the safety issues relating to this machine and has received and will read a copy of this manual.

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

MANUFACTURED BY:	DISTRIBUTED BY:
Tiger Corporation	
3301 N. Louise Ave.	
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1-800-843-6849	1
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This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.



SAFETY	
	SAFETY SECTION
Bengal Boom Safety Section 1-1	

General Safety Instructions and Practices

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



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

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



Indicates an imminently hazardous situation that, if not avoided, WILLresult 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, MA 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)

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



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 understood 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. (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!

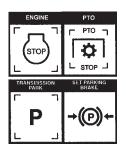


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. $_{(SG-8)}$

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.



(SG-9)

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.



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 recoverysis-17)



WARNING!



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



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

- 1. Test the tractor at a slow speed and increase the speed slowly.

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



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

Be aware of the operating conditions. Do not operate the 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)

Bengal Boom 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)

DANGER!



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



DANGER!



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

WARNING!



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

DANGER!



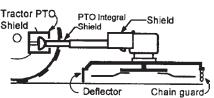
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care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



DANGER!



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact. (SGM-3)



DANGER!



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

WARNING!



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing.(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 moving speeds when operating on or near steep slopes. ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. (SGM-7)

WARNING!



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

WARNING!



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



DANGER!



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

Bengal Boom Safety Section 1-8

WARNING!



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

DANGER!



Rotary and 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 UNLESS:

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

NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected closely with any remaining debris being removed, and mowed again at desired final height (LSBM-1)



DANGER!



Use extreme caution when raising the Mower head. Stop the Blades from turning when the Mower Head is raised and passersby are within 100 yards. Raising the Mower head exposes the Cutting Blades which creates a potentially serious hazard and can cause serious injury by objects thrown from the Blades or by contact with the Blades.

(SBM-2)

DANGER!



Be particularly careful in transport. The Mower has raise the center of gravity for the tractor and has increased the possibility of overturn.urn curves or go up slopes only at low speed and using a gradual turning angle. Slow down on rough or uneven surfaces.(SBM-3)



WARNING!



Never Leave the mower unattended while the head is in the raised position. The mower could fall causing serious injury to anyone who might inadvertently be under the mower

(SBM-4)



WARNING!



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

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



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

DANGER!



Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation.

(SBM-7)



DANGER!



When transporting Boom Mower on a truck or trailer, the height or width may exceed legal limits when the boom is in the transport position.

Contact with side or overhead structures or power lines can cause property damage or serious injury or death. If necessary lower boom to reduce height and/or remove mowing head to reduce width to the legal limits. (SBM-8)



DANGER!



Never operate the Tractor and Mower Unit without an OPS (Operators Protective Structure) or Cab to prevent injury from objects thrown from ground or from overhead trimming. Stop mowing if workers or passersby are with in 100 yards. (SBM-9)



DANGER!



Each Rear Wheel must have a minimum of 1500 pound 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 mountiningstructions or call Customer Service if you need assistance with Couterweight Procedure. (SBM-11)



DANGER!



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



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!



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 may reduce mower performance, void mower warranties and present a safety hazard. Use genuine Tiger mower parts for economy and safety.



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



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









- 1 Study and understand Operator's Manuals, Safety Signs, and Instructional Decals for tractor & flail mower to prevent misuse, abuse, & accidents. Practice before operating mower in a confined area or near passersby.
- Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
 Allow no children on or near implement or tractor. Allow no riders on tractor or implement. Falling off can cause serious injury or death from being runover by tractor or mower or contact with Flail Mower Blades.
- 3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seatbelt fastened securely and snugly to prevent injury and possible death from falling off or tractor overturn. Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, and 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 that 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 implements. Slow down when turning and on hillsides
- Install "Restrictor in folding circuit to slow down lowering and unfolding if action is faster than is desirable
- 6 Make certain that SMV sign, Warning Lights, and Reflectors are clearly visible. Follow local traffic codes.
- 7. Never operate with Flail Mower or Folding Section raised if passersby, bystanders or traffic are in the area to reduce possibility of injury or death form objects thrown by Blades under Shields or implement structure.
- 8 Before dismounting, secure flail mower 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 entanglement in rotating parts which may cause injury or death

Never mount or dismount a moving vehicle. Crushing from runover may cause injury or death.









PART NO. LOCATION

002369 **HYDRAULICTANK**



00725746 INSIDE OF CAB



THROWN OBJECTS







KEEP AWAY - ROTATING BLADES

BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH.

- Stop mowing if passersby enter the area of thrown objects (See Operator's Manual).
- Use special care if Mower Head or Wing is raised off the ground. (See Manual). Operate only if all Guards-Deflectors are in place and in good condition.

00769737 MOWER DECK



PART NO. LOCATION

00758194 MOWER DECK



02962764
MAIN BOOM, SECONDARY BOOM, MAIN FRAME



02962765 MAIN FRAME

02965262 HYDRAULICTANK



CUTTING BLADES THROWN OBJECTS





PART NO. LOCATION

02967668 MOWER DECK

KEEP AWAY - ROTATING BLADES

BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH

- Stop mowing if passersby enter the area of thrown objects. (See Operator's Manual)
- Use special care when Flail or Wing is raised off the ground. (See Oper. Manual)
- Operate only if all Guards-Deflectors are in place and in good condition.

02971123 HYDRAULICTANK



03200285 OUTSIDE OF CAB

POLYCARBONATE WINDOW

REFER TO OPERATORS MANUAL FOR CLEANING INSTRUCTIONS

22645 INSIDE OF CAB

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

22839 MOWER DECK

P/N22839



PART NO. LOCATION

22840 INSIDE OF CAB

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

25387 INSIDE OF CAB



10" x 5.5" 31522 MOWER DECK, MAIN BOOM 18.25" x 10" 31523 HYDRAULIC TANK

WARNING

Valve section TF3009 with detented float to be used with only Boom Flail mower. DO NOT operate a Boom rotary mower with the float section installed.

PART NO. LOCATION

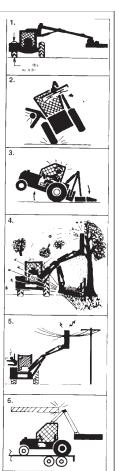
27001 INSIDE OF CAB

31935 INSIDE OF CAB



A DANGER

- 1. EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POUNDS CONTACT WITH THE SURFACE TO PREVENT LATERAL INSTABILITY AND POSSIBLE TIP-OVER WITH BODILY INJURY, WIDEN WHEEL TREAD AND ADD WEIGHTS IF NEEDED. SEE MANUAL OR CALL TIGER CUSTOMER SERVICE FOR COUNTERWEIGHT PROCEDURE.
- 2. TRANSPORT CAREFULLY! SLOW DOWN EVEN MORE ON SLOPES AND WHEN TURNING; NEVER TURN UP A SLOPE SHARPLY OR AT HIGH SPEED; AND USE EXTRA CARE IN ROUGH OR BUMPY AREAS TO PREVENT OVERTURN AND POSSIBLE CRUSHING INJURY OR DEATH. IF YOUR VIEW TO THE REAR IS BLOCKED, IT IS YOUR RESPONSIBILITY TO INSTALL MIRRORS THAT PROVIDE A REAR VIEW TO PREVENT ACCIDENTS FROM BLIND SPOTS.
- 3. REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS DN FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL. AND POSSIBLE INJURY.
- 4. NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD TRIMMING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.
- 5. KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.
- 5. WHEN TRANSPORTING BOOM MOWERS ON A TRUCK OR TRAILER. THE HEIGHT OR WIDTH MAY EXCEED LEGAL LIMITS. CONTACT WITH SIDE OR OVERHEAD STRUCTURES OR POWER LINES CAN CAUSE SERIOUS INJURY OR DEATH.
- -OWER BOOM TO REDUCE HEIGHT AND/OR REMOVE MOWING HEAD TO REDUCE WIDTH TO THE LEGAL LIMITS, IF NEEDED. \$32707



32707 HYDRAULICTANK



42350 MOWER DECK

ATTENTION

SERVICE HYDRAULIC SYSTEM WITH UNIVERSAL TRACTOR HYDRAULIC OIL.

32708

PART NO. LOCATION

32708 HYDRAULICTANK

A CAUTION

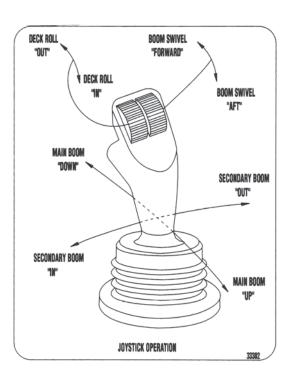
For your safety and to guarantee optimum product reliability, always use genuine TIGER replacement parts. The use of inferior "will-fit" parts will void warranty of your TIGER implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions concerning the repair parts you are using, contact TIGER, 3301 N. LOUISE AVE., SIOUX FALLS, SD 57107

32709 INSIDE OF CAB

33224 MOWER DECK



33438 MAIN BOOM



PART NO. LOCATION

33302 INSIDE OF CAB

MOWING SAFETY TIPS Read & understand the Operators Manual. 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 Never allow riders on tractor or equipment. Only start the tractor from the seat with the key. 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. Mever approach rotating elements. Disengage the PTO, place transmission in "Park", set parking brake, shut off engine, and remove key and wait until all rotating motion has stopped before leaving seat. 33743

33743 INSIDE OF CAB



PART NO. LOCATION

RED 42399 REFLECTIVE TAPE MOWER DECK



AMBER 42400 REFLECTIVE TAPE MOWER DECK



6T3217 MOWER DECK



6T3219 INSIDE OF CAB

6T3220 FRONT PUMP MOUNT

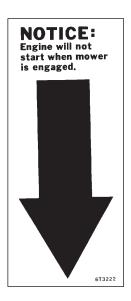


LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. WITH MOWER AND TRACTOR OFF, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING.

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

PART NO. **LOCATION**

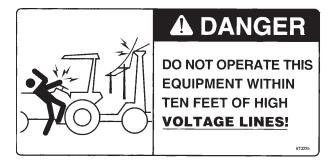
6T3221 **INSIDE OF CAB**



6T3222 **INSIDE OF CAB**



6T3224 **MOWER DECK**



6T3225 INSIDE OF CAB

A WARNING

DO NOT OPERATE THIS EQUIPMENT WITH BYSTANDERS IN THE AREA!

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

6T-323

PART NO. LOCATION

6T3230 INSIDE OF CAB

A CAUTION

- PROCEDURE FOR TRAVEL POSITION.
- ALLOW CUTTER ASSEMBLY TO COME TO COMPLETE STOP.
- 2. CENTER DECK BETWEEN FRONT AND REAR TIRES.
- 3. PLACE BOOM INTO TRAVEL POSITION.

FAILURE TO DO SO MAY RESULT IN TIRE DAMAGE AND/OR INJURY.

6T3231

6T3231 INSIDE OF CAB

A CAUTION

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

T-3233

6T3233 HYDRAULICTANK

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



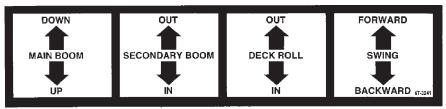
6T3236 MOWER DECK

Bengal Boom Safety Section 1-21



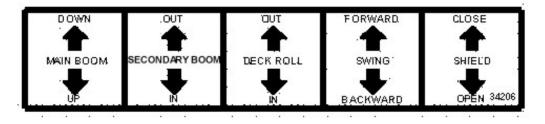
WHEN CUTTING HEAVY BRUSH, BLADE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 600 FT. LBS. PART NO. LOCATION 6T3237 INSIDE OF CAB

6T3237



6T3241 INSIDE OF CAB

6T3241



34206 INSIDE OF CAB

A WARNING

IT IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED. REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FAILURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH. **IMPORTANT**

WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY.

SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS.

67-3243

6T3243 INSIDE OF CAB

GREASING INSTRUCTIONS

CUTTER SHAFT BEARING

GREASE EVERY 8 HRS. OR DAILY

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

GT3249A

6T3249A MOWER DECK

GREASING INSTRUCTIONS

GROUND ROLLER BEARING

GREASE EVERY 8 HRS. OR DAILY

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

6T3261 MOWER DECK



TB1011 MOWER DECK

0



0

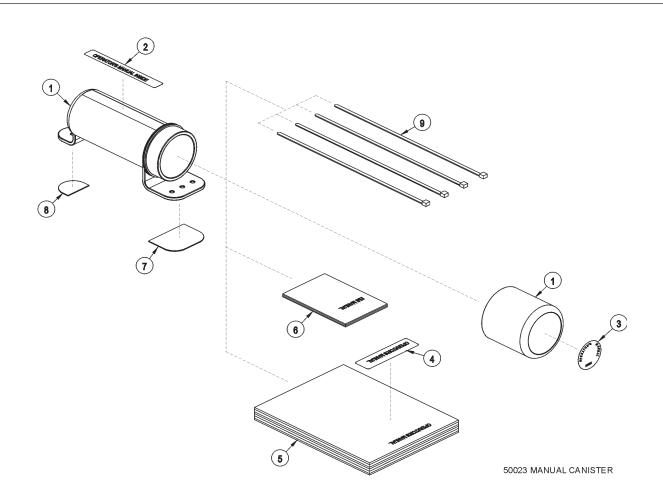
Tiger Corporation

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

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics Cold Temperatures 0°F Start-up Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobilfluid® 424 Mobil DTE® 25 Mobil DTE® 18M
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Drive Shaft Coupler (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220

Tiger PN 34852 O

34852 HYDRAULIC TANK



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

Bengal Boom Safety Section 1-24

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 thisAct 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."

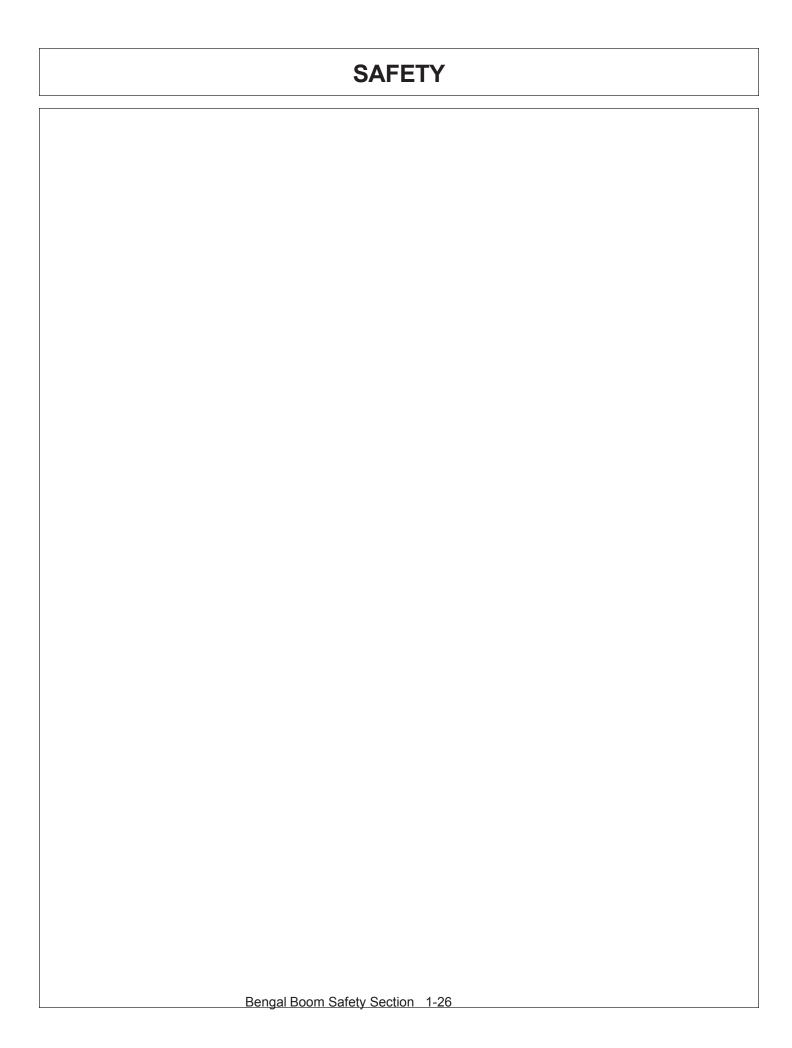
Employer Responsibilities:

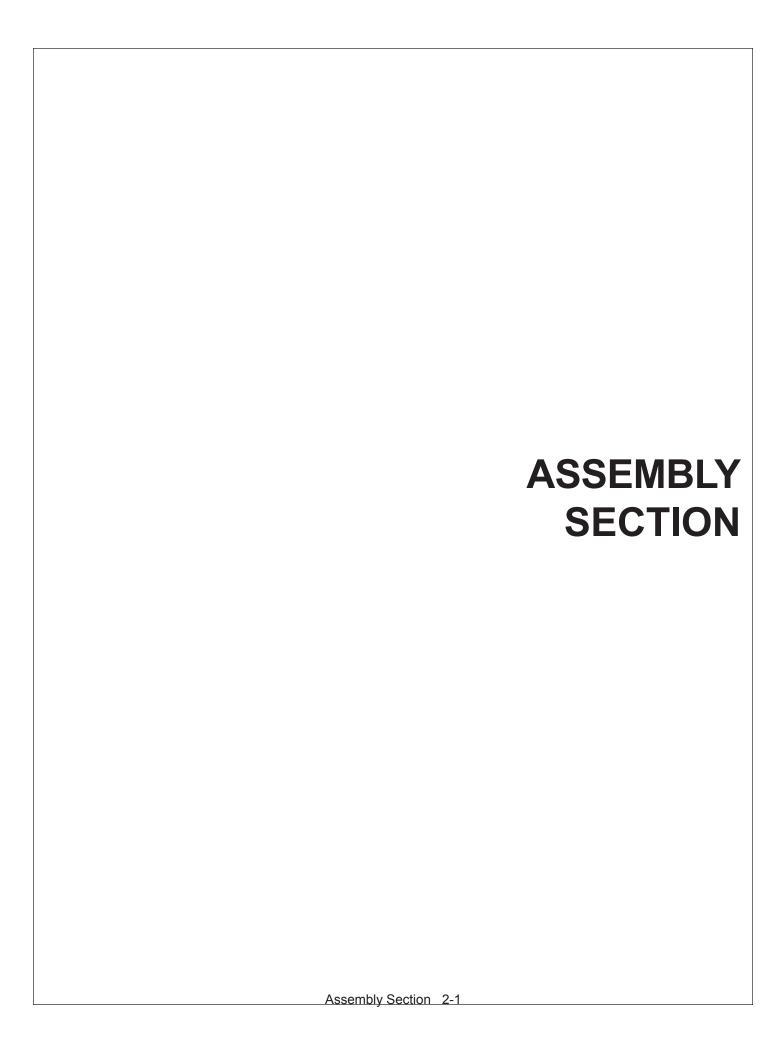
To ensure employee safety during Tractor and Implement operation, it is the employers responsibility to:

- 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 maint ain all shields and guards on the equipment.
- 5. Ensure the Tractor is equipped with a functional ROPS and seat belt and require that the employee operator securely fasten the safety belt and operate with the ROPS in the raised position at all times.
- 6. Forbid the employee operator to carry additional riders on the Tractor or Implement.
- 7. Provide the required tools to maintain the Tractor and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.

Child Labor Under 16 Years of Age

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





ASSEMBLY

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 deailed 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 rear wheels.

ASSEMBLY

POLYCARBONATE SAFETY WINDOW (CURRENT)

NOTE: Installing a boom mower requires that all of the right side windows be replaced, or protected with a polycarbonate window. This should be done before mounting the main frame.

- 1. Disconnect gas shock at door. Remove the right side cab door/window glass from tractor cab by removing hinge pins. Also, remove rear right side window.
- 2. Remove the existing hardware and discard factory glass door and window.
- 3. Place small beed of adhesive seal in the botom of the trim lock bubble beed.
- 4. Install trim lock bubble seal on polycarbonate starting at the center bottom horizontal portion.
- 5. Install existing hardware removed from glass door and window on the polycarbonate.
- 6. Install the polycarbonate assembly in the cab with existing and supplied hardware.
- 7. Place the retaining brackets on the upper front and lower front of the cab door/window with the 8mm capscrews.
- 8. Place the third bracket at the bottom of the door by the fender as shown in the illustration below. Hold the bracket in place and mark the door jam.
- 9. Drill 21/64" hole in the door jam for the 5/16" capscrew and mount the bracket.
- 10. Install the right rear poly window into place where factory window was removed.



ASSEMBLY

LEXAN SAFETY WINDOW (ORIGINAL)

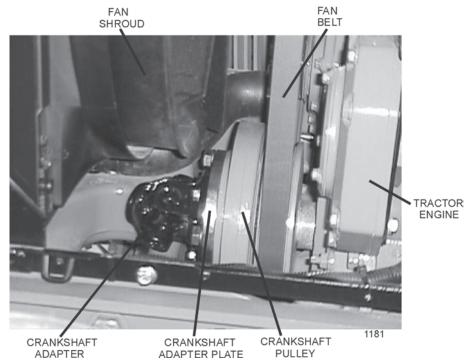
NOTE: Installing a boom mower requires that all of the right side windows be replaced, or protected with a lexan window. This should be done before mounting the main frame. Locate the parts that are called out in the Parts Section, Lexan Safety Window, for the correct hardware to install the safety window.

Install the upper and lower hinge brackets onto the cab using the hardware shown in the parts section. These will mount to preexisting holes in the front right corner of the cab. Before tightening the brackets, slide the frame onto them to align the pins properly Move the frame so that it is parallel to the cab and position the fender mounting bracket so that the mounting holes line up with the door frame (use a capscrew to ensure this). Carefully mark and drill four holes in the fender to mount the bracket. Install the bracket using the hardware, rubber pad, and mounting plate as shown.

Remove the window frame to install the lexan window. To install the lexan, remove the protective paper from the very outer edge of the upper and lower window where they will contact the frame. Line up the lexan on the frame and clamp together to hold the position. Drill 3/16"-13/16" holes evenly spaced around the outside edge of the lexan for the pop rivets. Secure both pieces of lexan with the pop rivets and reinstall the window onto the tractor. Remove all remaining protective paper from the lexan and close window against mounting bracket on the fender. Install capscrew and nylock nut to secure rear of window in place. (Refer to the Parts, Section Lexan Safety Window for a detailed assembly diagram).

CRANKSHAFT ADAPTER

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

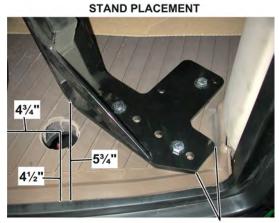


CABLE CONTROL LEVER STAND

On the corner cab post, mark a point at 1-3/8" from the windshield and 22 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.

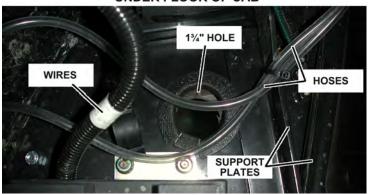
Use a 1" hole saw and cut a 1" hole through the mat



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



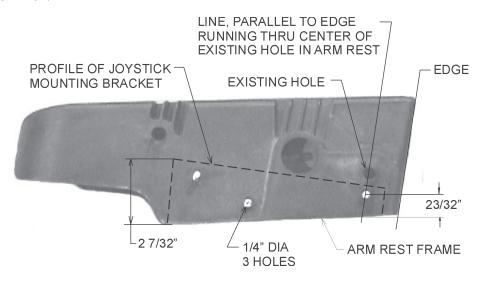
Cut a 1 ¾" hole in the floor to route the cables and wires through. It needs to have a ¼" clearance for the trim lock. Before you mark or drill any holes, check for support plates or wires under the cab floor.

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.

JOYSTICK CONTROL MOUNTING

Mounting the joystick control will require that the right arm rest be modified for attaching the joystick holder. In doing this, the armrest pad will need to be removed by pushing in and holding the button to adjust the armrest. While holding the button in, pull the arm rest all the way up / back until it stops, the button should pull out at this point. Remove the padding on top of the armrest by pulling up and cutting the plastic strip on the under side. With the cover removed, three holes will need to be drilled in the arm rest for the 1/4" capscrews used to mount the joystick bracket. Refer to the diagram on the next page for locating these holes. Install the joystick bracket on the armrest with the hardware as shown in the parts section. NOTE: the middle capscrew used to secure the joystick holder is excessively long. Slide the arm rest pad back over the arm rest and install the push button opposite as it was removed. After the arm rest cover is reinstalled, cut a hole in the side to allow this longer capscrew to protrude through the pad. Then, install the flatwasher and second nylock nut on the outside of the pad to hold it in place. Also install the joystick in the holder with the machine screws as shown. Use this diagram to help locate the holes to be drilled in the arm rest. Mark the exact location of the holes using the joystick bracket as a template.

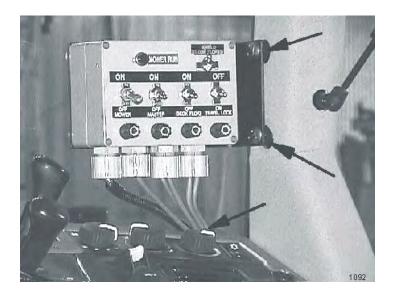




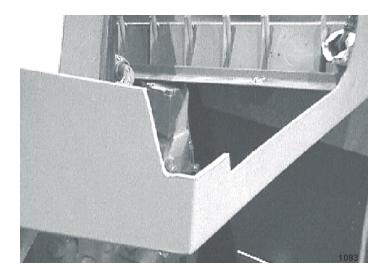
Assembly Section 2-6

SWITCH BOX MOUNTING

Locate the 2 holes in the right rear corner of the cab frame. These will be the mounting holes for the 2 mounting bolts of the switch box bracket. See picture below. Mount the bracket using the hardware supplied, as noted in the parts section. The rear corner of the top council panel facing the window will need to be removed and notched just enough to enable cables to enter the council area. See picture on next page that shows modification complete.



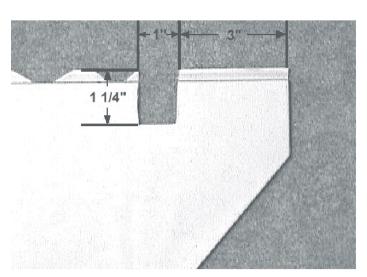
Remove the top and side panels of the council to the operators right. Using a cutting wheel, notch out the corner of the top council cover. Notch size is approx. 1-1/2" x 1-1/2", see picture below. Finish with a file or grinding bit in a drill.

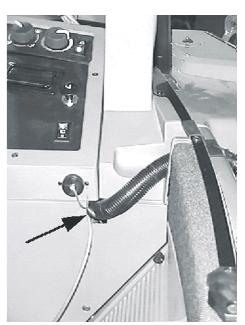


(Continued on next page)
Assembly Section 2-7

SWITCH BOX MOUNTING (cont.)

Using the same method, the side panel of the council will also need to be modified to allow wires to exit the council. The notch in this area will be approx. 1-1/ 4"D x 1"W x 3" in from end. See pictures below of notched panel and as it should look when complete. NOTE: Do not reinstall the panels at this time.





1094

SWITCH BOX WIRING

The floor covering will need to be removed to route the wires to the front council. Refer to the parts section for wiring diagram to hook up the switch box. Cover the four wires from the on / off terminal of the switch box with plastic wire wrap provided. Route the wires from the on / off terminal of the switch box to the back corner of the cab (where the notch in the top panel will be) and run through. Run the wires down to the floor and along the bottom edge of the council, to the front. From there, run the wires along side of the existing wires that go the front panel.

Remove the gauge panel under the steering wheel to access wires. Locate the brown wire. This is the neutral safety wire. Cut the brown 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 to the right of the front council. Insert a rubber grommet into the hole to protect the wire, and route the wire out of the cab.

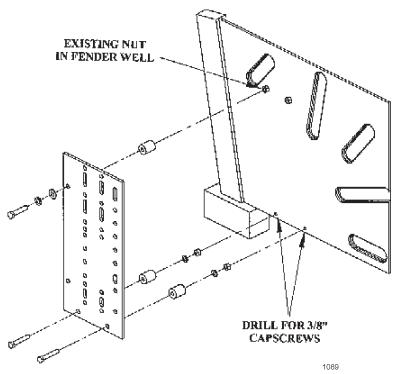
The red wire from the on / off terminal is to be hooked to the tractor ignition switch or an available slot in the fuse box. NOTE: Be certain that the power taken for the switch box is "HOT" only when the tractor ignition is "ON". Also double check that the line is fused.

The single red wire from the last terminal on the switch box should also be covered with wire wrap and will be run out the slot below the back window with the valve cables. This wire will be connected to the electronic travel lock.

The wires for the electronic valve are longer than needed and should carefully looped inside the council. The loop can be tucked in back of the computer box to help secure the wires and help avoid any friction on the wires. Zip ties should be used to secure the wires to the framework in this area. They can then be run out of the upper corner of the side panel (where notch will be) and out below the rear window. The rubber boot under the rear window can be cut in a cross hair pattern and the bottom cut through to allow it to slip over the wires and back into position. There should be approximately 18-20 inches of the wires left outside of the cab. These wires will be routed in back of the valve mounting plate, and should be covered (all together) with plastic hose wrap.

HUSCO VALVE MOUNTING PLATE

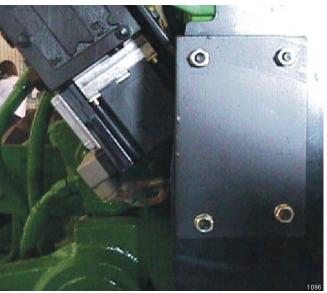
With the right rear wheel removed, use the valve plate as a template to mark out the position for each of the three holes that will need to be drilled for mounting. The bottom two holes should be approximately ¾" up in the lower cab support, the other will be 6 7/8" up (again mark out using valve plate as template). Drill the two lower holes to 3/8" and align plate with holes to double check position of the upper hole. Drill the upper hole to 3/8". After double checking holes are correct, fasten all mounting angles, hardware and the valve to the valve plate. The assembly can now be installed into the wheel well. Refer to the parts section for all parts and hardware needed.

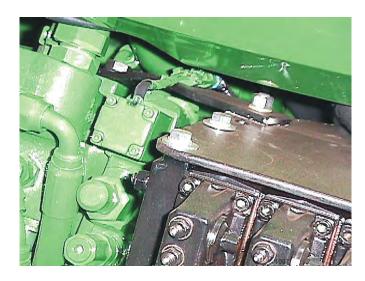


Mount the valve plate to the tube above the cab post with the cap-screws, lock-washers, spacers, and hex nuts **as shown in the parts section. DO NOT tighten.** Install the other two spacers with hardware through the fender well, and tighten all bolts in the valve plate.

DANFOSS CONTROL VALVE MOUNTING

Align the bracket to the fender well and align existing holes with holes in mounting bracket, as shown below. Drill any additional holes that may be required, using the mounting plate as a template. Attach the valve mounting plate and the positioning / support bracket on the back to the tractor using the hardware shown in the parts section.





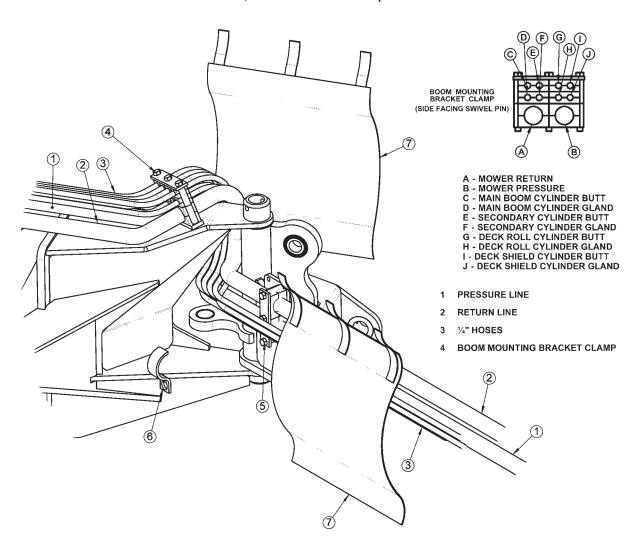
TEMPERATURE GAUGE MOUNTING

(OPTIONAL)

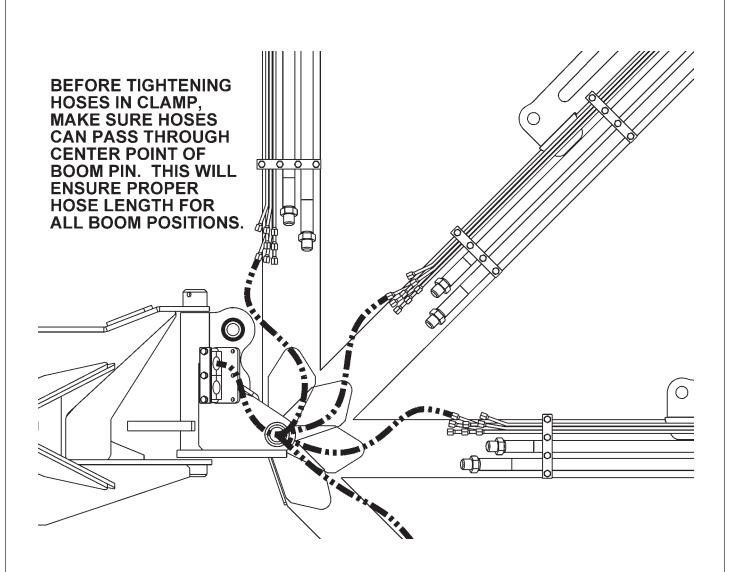
Mount the temperature gauge where it is clearly visible to the operator. Attach the green (-) wire from the negative post on the gauge to a grounded bolt on the tractor frame. Remove paint if needed to make a good ground. Remove the pipe plug from the side of the hydraulic reservoir, and install the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

REAR STOW BENGAL HOSE ROUTING

WARNING NOTE: The sudden release of hydraulic pressure could cause the sudden movement of very heavy parts. Anyone in the way of these parts could be severely hurt or killed. DO NOT ALLOW these hydraulic hoses to BREAK or BURST in order to prevent hydraulic failure. Make sure the hoses do not pinch or stretch as boom moves. Measure TWICE, check TWICE then proceed with caution.

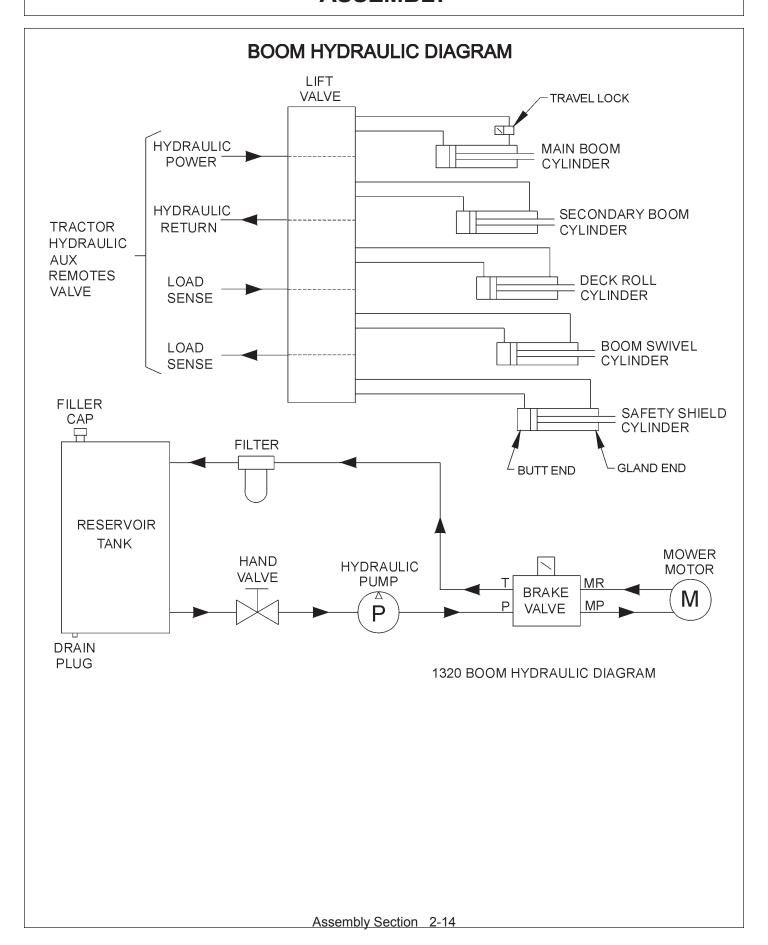


Route the hoses through the space between the swivel and the boom mounting bracket. Connect the hoses to the preformed tubes and move the boom arm to a few feet from full forward. Assemble the swivel clamp and place the return hose for the motor on top and the pressure line on the bottom. Place the ½ hoses in the "C" clamp and add it to the bottom screw of the swivel clamp. Next, make sure there is enough slack for all hoses to pivot at the joint where the main boom arm bends in the swivel, as shown in the next image, and tighten the hoses in the clamp.



Arrange the hoses in the clamp that attaches to the boom mounting bracket as shown above, with the 1" motor hoses closest to the bracket and the return hose closest to the boom arm. Pull the hoses snug from the swivel to the mounting bracket clamps, when main boom is still forward, and tighten the hoses in the clamp.

Make sure the 1" motor hoses do not kink as the boom arm is moved into the stowing position. If this happens the motor hoses will have to be shortened, because there is too much hose between clamps.



MAIN FRAME INSTALLATION

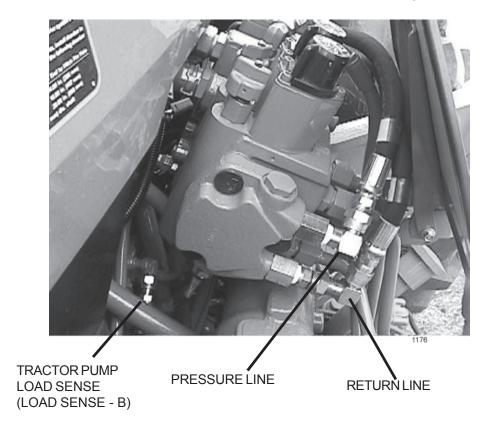
With an overhead hoist and / or jack-stands, raise one side of the frame up to the correctly matching mounting holes. Install capscrews and all other hardware as shown in main frame parts section to secure the sides of the main frame to the tractor casting, DO NOT tighten at this time. Remove the capscrews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

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 for position of the pressure port). After the plug is removed then connect a hose from the tractor remote valve to the Tiger lift valve.

RETURN LINE INSTALLATION

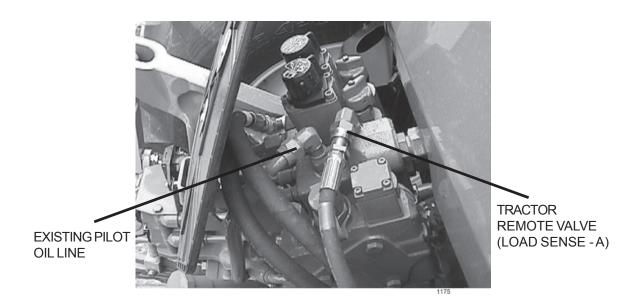
The return line will be plumed in next to the pressure line in the tractor remote valve end cap. Locate the return port and remove the plug (refer to the illustration below and the Parts Section for the position of the return port). After the plug is removed then connect a hose from the tractor remote valve to the Tiger lift valve.

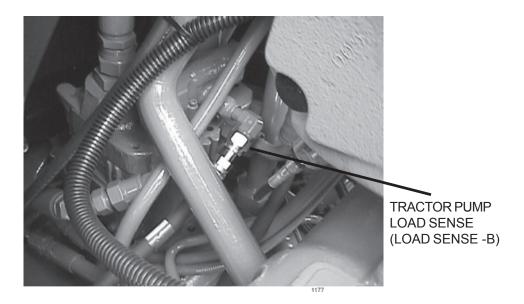


LOAD SENSE LINE INSTALLATION

To install the load sense lines from a Husco ltfvalve to the tractor remote valve, first the existing load sense line located on the top of the tractor remote valve connceting "load sense - A" and "load sense - B" must be removed, in order so that the two load sense lines are able to be connected to the Husco lift valve. Next connect a 1/4" hose (load sense -A) to the top of tractor remote valve, then to the top front port on the Husco lift valve. Next connect a 1/4" hose (load sense - B) to the tractor pump load sense and the top rear port of the Husco lift valve.

This procedure is followed when mounting a Husco lift valve on a John Deere 72-7410. For more information refer to the Parts Section pages for a complete diagram of the tractor valve hookup.





HYDRAULIC TANK INSTALLATION

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

Place the tank in the mounting bracket on the main frame as shown in the parts section. 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.

FRONT PUMP MOUNTING

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

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

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

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

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

GENERAL HOSE INSTALLATION

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

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

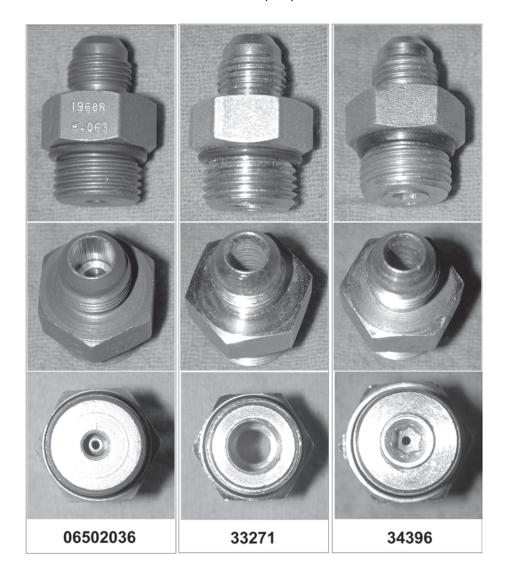
HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the main boom and secondary boom with the yellow hose cover, secure with black 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 yellow hose cover and secure with black string provided.

Assembly Section 2-17

NOTE ON HUSCO CONTROL VALVES

Manual, cable controlled (Husco control valve) boom mowers require check valves with integral restricting orifice (#06502036) installed in the control valve work ports that are connected to the gland ends of the main and secondary boom cylinders. This check valve allows oil to free flow into the gland end of the main and secondary boom cylinders, but restricts flow out of the cylinder, thereby providing proper boom control. This check valve, #06502036(Vendor #1968R-.063) is similar in appearance to hose adapter #33271 and Adapter #34396, with.06 orifice. These components can be identified as follows, and are to be installed per parts section for the lift valve.



MAIN BOOM INSTALLATION

Install the boom swivel into the main frame as shown in the parts section using a hoist. Line up holes in swivel and main frame for large swivel pin and insert pin. Secure with hardware as shown.

Inspect the inner boom end, and align grease hole in bearing must with boom grease zerks. Attach the inner end of the main boom to the swivel bracket with the cylinder anchorspositioned upward, and at a right angle to the tractor Secure it with the horizonal hinge pin. Secure the hinge pin in the boss with capscrews, etc. (see parts section).

Install the fittings and hose to the butt end of the large main boom cylinder Install the travel lock with the restrictor on the rod end of the main boom cylinder . These should be facing the butt end of the cylinder after installation.

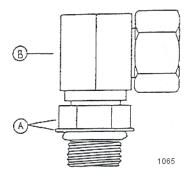
NOTE: Be sure to use teflon tape on all pipe fittings (except O-rings).

Install main boom cylinder on the main boom with the fittings facing upwardsAttach the butt end to the cylinder to the swivel bracket anchor with the special "bracket head" cylinder pin and roll pin shown in parts section. Attach the cylinder rod end clevis to the main boom with the cylinder pin and two roll pins.

GREASE HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED

INSTALLING O-RING FITTINGS

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



INSTALLING NATIONAL PIPE FITTINGS

Whenever installing a pipe fitting, wrap the thread 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.

ACCUMULATOR INSTALLATION / PLUMBING

Install the accumulator bracket on tab with holes provided on the right main frame with the capscrews and lockwashers shown. Install the accumulator in the bracket and secure with the hardware shown. Install fittings and hoses to the cylinder and control valve as shown in the parts section. **Use teflon tape on all pipe fittings (except Orings).**

DECK ATTACHMENT

Attach the head to the secondary boom using the pins and hardware shown in the common section to attach linkages. Install the square tube on the top of the head into the head mount and secure using the mounting plate and hardware as shown. The mount should be positioned to the left side of the cutter head. Install the deck pivot cylinder using the pins and hardware also shown in the common section.

Connect the fittings and hoses from the pivot cylinder to the small preformed tubes on the boom arm. Connect the fittings and hoses from the motor to the large preformed tubes on the boom arm.

Connect the remaining hoses form the control valve to the cylinders and / or preformed tubes on the boom arm. Refer to common parts section for diagrams.

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 tractorAlso 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).

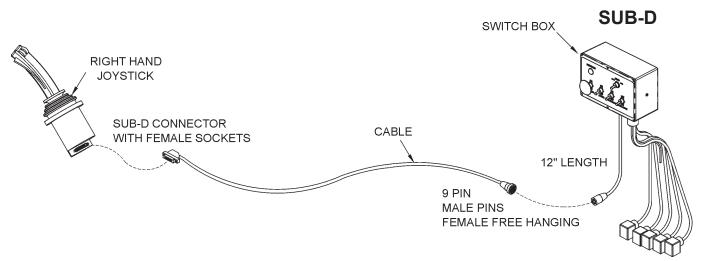
WHEEL WEIGHT MOUNTING

For all mowers using a boom mower a wheel weight will be required for the lefside wheel. It will be necessary to mount the 1300 pound wheel weight in the wheel using the long capscrews, lockwahers, flatwashers, and hex nuts per diagram in the parts section.

Installation is most easily done with a small fork lift, inserting a fork in the center slot of the wheel weight. The head of the capscrews is to be toward the OUTSIDE of the weight, with flatwashers on both inside and outside of the assembly.

The left rear tire must also be filled with a mixture of water and calcium chloride at about five pound per gallon. Tire air pressure should be maintained at approximately 22 P.S.I.

BOOM JOYSTICK CONTROL CALIBRATION



This Danfoss PVG32 control valve is now equipped with higher-resolution actuators on Main Boom, Secondary Boom, Deck Roll, and Swivel functions. These actuators have "active fault monitoring". The Deck Shield section does not have "active fault monitoring". The joystick is unchanged and provides a ratio-metric voltage signal. The neutral signal voltage is half or 50% of tractor supply voltage. A 25% signal voltage will shift the valve spool to full "A-Port", and 75% signal voltage will shift the spool to full "B-Port" in the Main, Secondary, and Swivel valve sections. On the Deck Roll function a 34% signal voltage will shift the valve spool to full "A-Port" and a 68% signal voltage will shift the spool to full "B-port". If an actuator with active fault monitoring receives a signal from the joystick that is less than 15% or greater than 85% of supply voltage the actuator will "fault out" and shut down. Also if there is an internal failure in the actuator or if the spool position is greater than that specified by the signal voltage from the joystick, the actuator will "fault out" and shut down. An "active fault" condition causes the actuator to drive the spool to neutral, shut down, and activate a "red" LED on the top of the actuator. The active fault can be canceled by simply cycling the Master Switch "OFF" and then "ON", which resets the fault monitoring, and causes the LED on top of the actuator be "green" again.

CAUTION!



The joystick control is equipped with signal adaption potentiometers.

These provide the capability to individually adjust the oil flow to each boom function. It is important that the boom functions do not travel too fast. Excessive boom speed can reduce the stability of the unit and decrease operator control.

Note: Use a Phillips screw driver and be sure to adjust the screws carefully! DO NOT turn the potentiometers beyond their stopping point, potentiometers are very delicate! Turning the "A" or "B" port potentiometers clockwise increases the oil flow to increase the boom function speed, and turning them counterclockwise decreases the oil flow to decrease the boom function speed. See the graphic on the next few pages for help in adjusting.

Assembly Section 2-21

Run tractor at normal operating RPM to adjust the settings as follows.

Set the dead band compensation potentiometer first.

Set the dead band compensation potentiometer at 50%, or halfway between full clockwise and full counter-clockwise.

Setting Signal Adaptation Potentiometers:

Disconnect the Deutsch connectors from the actuators of the valve. Use a Volt/Ohm meter to measure signal voltage and adjust the signal adaptation potentiometers as needed. Pin #4 is tractor supply voltage. Pin #1 is signal voltage from the joystick, and pin #3 is ground. First measure supply voltage between pins 4 and 3. Then measure signal voltage between pins 1 and 3 while indexing the joystick function fully in both the "A" and "B" port direction. Divide the signal voltage by the supply voltage to get signal voltage as a % of supply voltage. This percentage should not be less than 25% or greater than 75% for the Main Boom, Secondary Boom, or Swivel function. This percentage should not be less than 30% or greater than 62% for the Deck Roll function. Note these initial settings for the Deck Roll function should prevent the spool from shifting into float. After making this first adjustment to deck roll if the spool still goes into float, adjust the "B" port screw additionally counterclockwise.

Reconnect Deutsch connectors on control cables to actuators on Danfoss valve. Run tractor until hydraulic system is at operating temperature. Now refine the adjustments of the signal adaptation potentiometers for both "A" and "B" ports for all proportional functions to achieve the following function times. Note: turning potentiometer clockwise increases the flow or the function speed, and turning them counterclockwise decreases the flow or the function speed. Note, if during this procedure the trim potentiometer is set to full "counterclockwise" but the function is still too fast, use the mechanical stops at the manual actuator end of the valve section to further limit flow. Turn limit screw in or clockwise to limit flow. The upper limit screw limits flow to "B-port", and the lower limit screw limits flow to "A-port". However DO NOT adjust the limit screw on "B-port" of deck roll function. Limiting "B-port" will prevent "float" function.

MAIN BOOM: "A" Port, Boom UP: 7-9 Seconds

(Note: Extend secondary boom completely; roll deck to be level with ground, and lower main boom until deck is on ground. Now index main boom "up" function and determine the time required for main boom to rise completely.)

"B" Port, Boom Down: 6-8 Seconds

(Note: Extend secondary boom completely, roll deck to be level with ground, and raise the main boom to "full up". Then index the main boom "down" function to determine the amount of time required for the deck to contact the ground. CAUTION: Stop the boom just as the deck contacts the ground.)

SECONDARY

BOOM: "A" Port, Boom Out: 8-10 Seconds

(Position main boom full up, roll deck out until deck cylinder is fully retracted, and bring secondary boom in completely. Then index the secondary boom "out" function and determine the time required for boom to extend out completely.)

"B" Port. Boom In: 8-10 Seconds

(Position the main boom full up, roll deck out until deck cylinder is fully retracted, and extend secondary boom completely. Then index the secondary boom "in" function and determine the time required for boom to come in.)

DECK ROLL: "A" Port, Deck Out: 5-6 Seconds

(Raise main boom to vertical, extend secondary boom out slightly so that deck can be articulated without contacting the main boom, and roll deck in until deck cylinder is completely extended. Then index the deck roll "out" function and determine the time required for the deck to roll out.)

"B" Port, Deck In: Target 5-6 Seconds (but DO NOT use Limit Screw) (Raise main boom to vertical, extend secondary boom out slightly so that deck can be articulated without contacting the main boom, and roll deck out until deck cylinder is completely retracted. Then index the deck roll "in" function and determine the time required for the deck to roll in.)

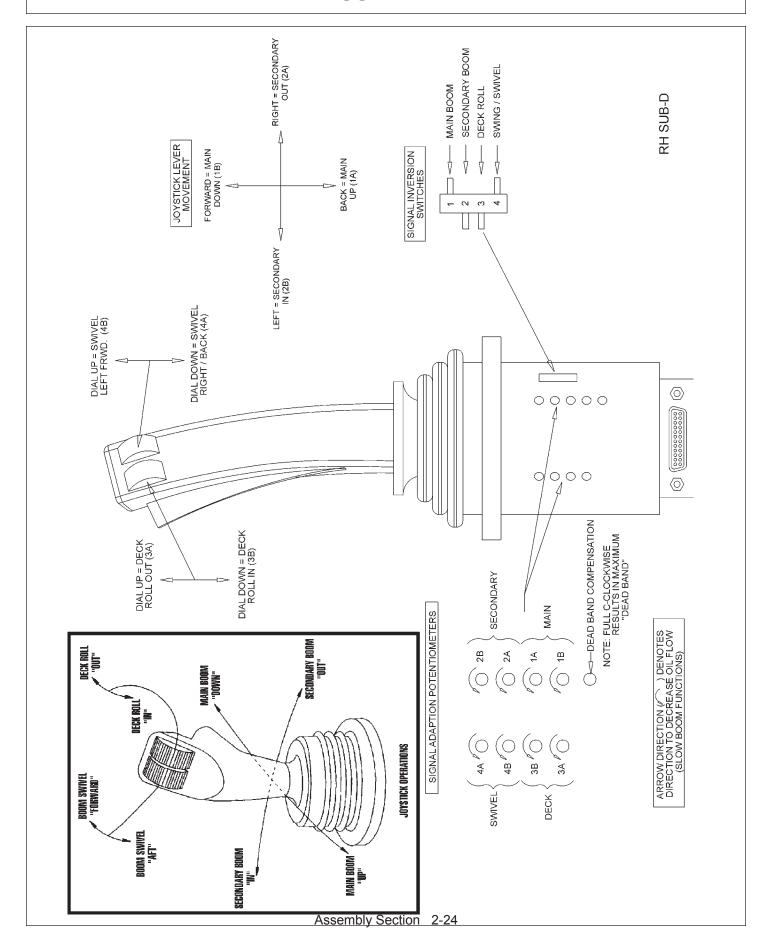
BOOM

SWIVEL: "A" Port, Boom Aft: 6-8 Seconds

(Extend booms completely; rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom full forward. Then index the boom swivel "aft" function and determine the time required for the boom to swivel full aft.)

"B" Port, Boom Forward: 6-8 Seconds

(Extend booms completely, rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom full aft. Then index the boom swivel "forward" function and determine the time required for the boom to swivel full forward.)



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 st arting tractor. Also secure any loose hoses together with zip ties and wrap with split hoses where friction may occur on the hoses.

WARNING!



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.

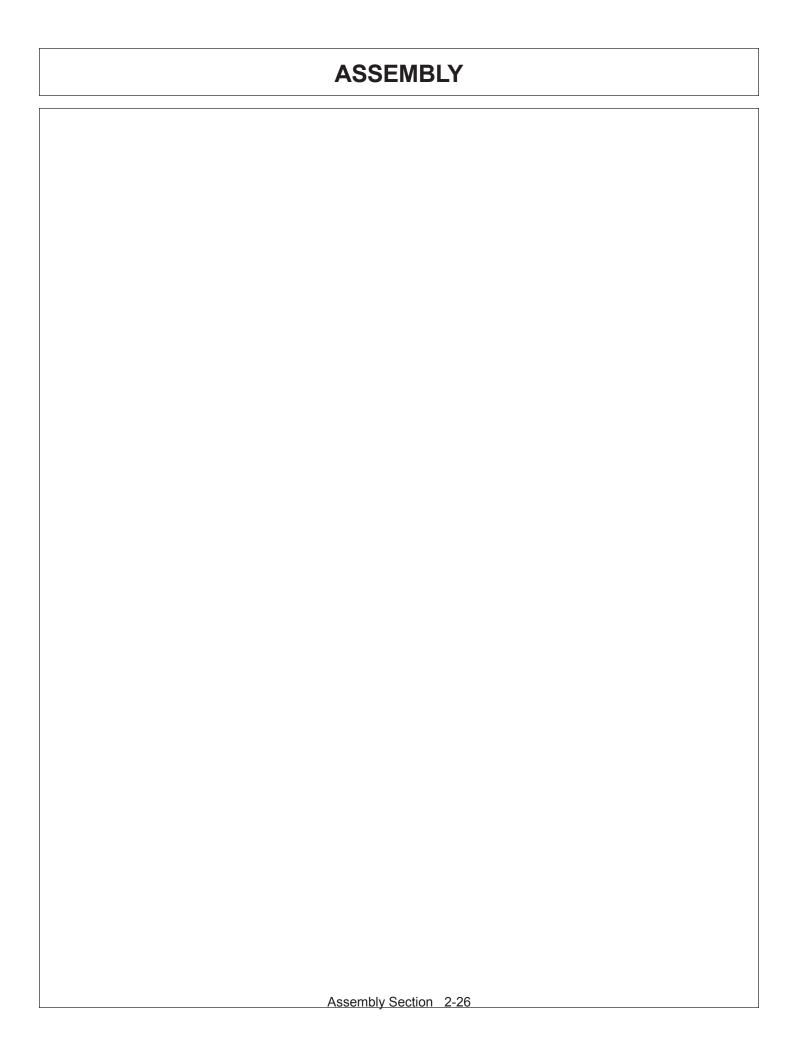
If a leak is found, you must shut down the tractor , set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

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 object 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 Mbration 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, WILLresult 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, MA 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)



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)



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.



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)



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 and removing them before mowing.

The Mower Control switch turns the mower "ON" and "OFF. This switch is to be in the "OFF" position to start the tractor. If the switch is "ON" and the tractor ignition switch is turned to "ON" the red "mower run" indicator light will come on. However, the tractor will not start with the Mower Control switch in the "ON" position. Upon starting tractor the "mower run" indicator light may flash briefly, and may flash briefly again when tractor is shut down.

WARNING!



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

NOTE: The tractor ignition switch and the Master Switch must be "ON" " to allow movement of the mower deck.

SWITCHBOX



The Safety Shield lever opens and closes the shield located on the front of the cutter head. When mowing at or near the ground, always have the shield in the closed position. When mowing in brush or in trees above ground level the shield may be opened for easier cutting. Read and follow the warnings on the decal shown below. **Do not run the cutter head into material larger than 6" diameter.**

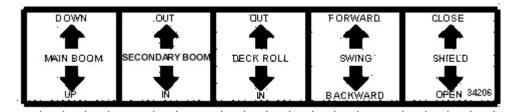


SAFETY SHIELD OPERATION

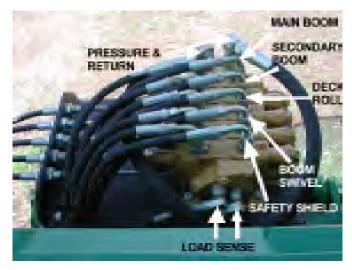
- Failure to close Safety Shield may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.
- 1.Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact with the Blades if persons are in the area.
- 2.Before cutting brush, trimming limbs, or other such operations, raise Safety Shield fully to allow the blades to contact the material if area is clear of passersby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area.
- 3. Repair or replace Safety Shield as needed.
- 4. Always transport with Safety Shield closed.

CABLE CONTROLLED MOWERS

A control lever decal similar to the one shown below should be near the control valve to remind the operator of the lever functions.



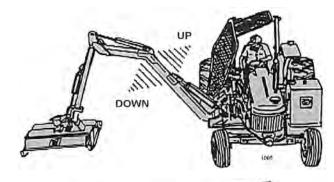
The main control valve on the Tiger Boom Mower has five sections with t apered spools, located near the right side of the steering wheel. The malfunction of a section of the valve does not necessitate the replacement of the entire "bank", only the faulty section. Each section of the valve controls a certain position of the boom or deck. Seated in the operators seat, the controls from left to right are #1 - primary(main) boom, #2 – secondary boom, #3 – deck roll, #4 – boom (swivel)swing, and #5 boom(safety) shield.



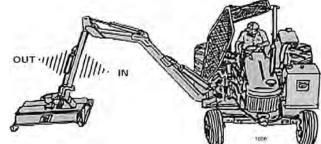


Bengal Boom Operation Section 3-6

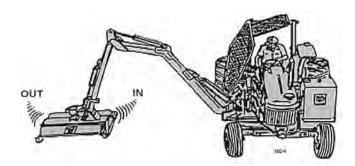
LEVER #1 MAIN BOOM



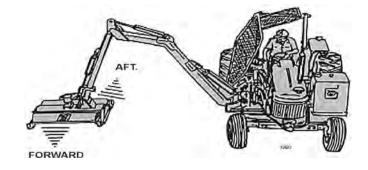
LEVER #2 SECONDARY BOOM



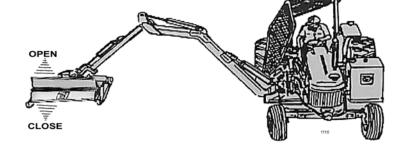
LEVER #3 DECK ROLL



LEVER #4 BOOM SWIVEL



LEVER # 5 BOOM SHIELD



DANFOSS JOYSTICK CONTROLLED MOWERS

WARNING!



NOTE: **DO NOT** operate mower head while boom mower is in the boom rest, or in the stored position! Red "Mower Run" light indicates mower is "ON".

The boom functions are controlled by an electronic joystick. The Joystick Master Switch enables the joystick control for controlling the boom motion functions. This switch is to be in the "OFF" position when starting the tractor and when boom is stowed for transporting the machine.

CAUTION!



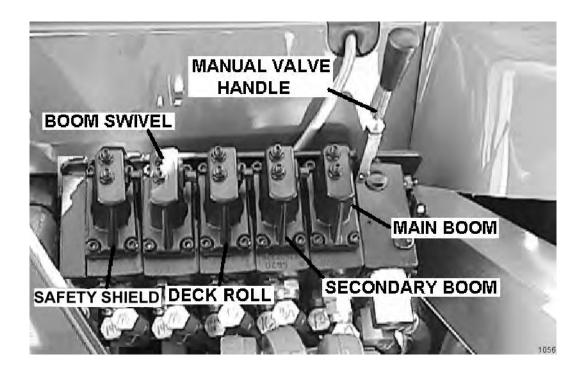
If the joystick control is not operating properly, turn the master switch to the "OFF" position. Install the manual valve handle onto valve and operate the functions individually to stow boom. After boom is stowed in rest, transport the unit to the maintenance facility and contact your Tiger dealer for assistance.

CAUTION!



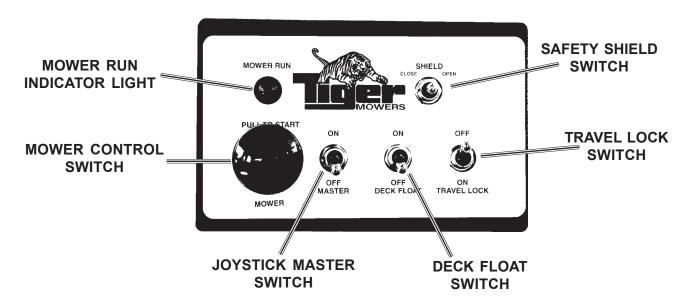
DO NOT attempt to operate the valve manually for moving operations!

Note: Pushing manual valve handles "out" or "away" from the tractor cab will bring the main boom "up", secondary boom "out", roll deck "out", and swivel boom "aft". Pulling manual handles toward cab will let main boom "down", bring secondary boom "in", roll deck "in", and swivel boom "forward".



DANFOSS SWITCH BOX AND JOYSTICK CONTROL

The diagrams below and on the next page show the functions that are performed through the use of the joystick controller.



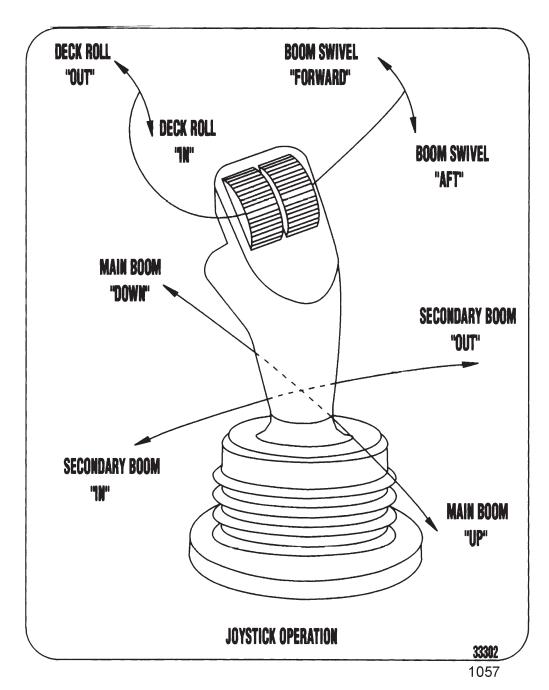
The Safety Shield switch opens and closes the shield located on the front of the cutter head. When mowing at or near the ground, always have the shield in the closed position. When mowing in brush or in trees above ground level the shield may be opened for easier cutting. Read and follow the warnings on the decal shown below. **Do not run the cutter head into material larger than 6" diameter**.

A DANGER

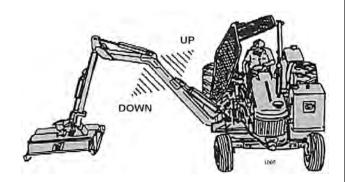
SAFETY SHIELD OPERATION

- Failure to close Safety Shield may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.
- 1.Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact with the Blades if persons are in the area.
- 2.Before cutting brush, trimming limbs, or other such operations, raise Safety Shield fully to allow the blades to contact the material if area is clear of passersby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area.
- 3. Repair or replace Safety Shield as needed.
- 4. Always transport with Safety Shield closed.

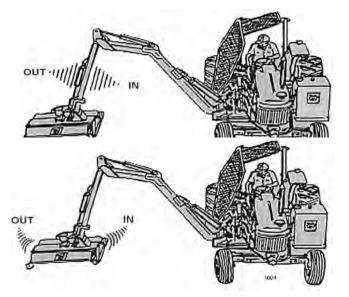
JOYSTICK CONTROL



JOYSTICK FWD / BACK MOVES MAIN BOOM

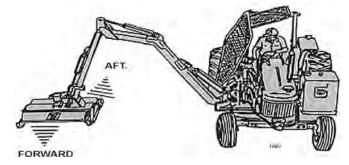


JOYSTICK LEFT / RIGHT MOVES SECONDARY BOOM

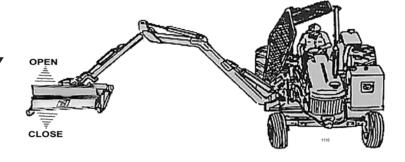


MOVES DECK ROLL





SHIELD SWITCH
(ON SWITCH BOX)
OPERATES SAFETY
SHIELD



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 imp act 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 and removing them 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. With the tractor at an idle, engage mower. Bring tractor R.P .M. up to 1900-2200 R.P .M. and **slowly** lower deck to ground level.

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

The rotary mower deck should always be carried rather than dragged on the skid shoes when mowing on the ground. Dragging the rotary mower deck increases the side loads on the boom, decreases the horsepower available to the cutter head, and reduces the ability of the accumulator the carry part of the weight of the boom during mowing operations.

50" BOOM ROTARY

The 50" boom rotary mower was designed for cutting brush and foliage up to 6 inches in diameter or multiple branches that have a total cross section area equivalent to one 6 inch branch.

During mower operation, the hand throttle must be used to maintain engine speed at 1900 – 2200 R.P.M. This prevents radical changes in mower spindle speeds, reducing the possibility of cutter assembly damage.

The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom. Do not force the cutting head into heavy branches or stumps. Damage to the unit may result.



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

Bengal Boom Operation Section 3-12



Powering the boom down, forcing mower deck onto ground may damage mower deck and it's attachment to the boom, creating a potentially hazardous situation.

To ensure a clean cut, engine speed should be maintained at approximately 1900 – 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.

For cutting brush it is usually best to stop the tractor and swivel the boom and mower into foliage. The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom.



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



If foliage falls on top of mower deck causing tractor to become unstable, move the boom "Forward" and "Out" to relieve tipping of the tractor. Lower mower deck to ground and shut down unit. After all motion stops, remove foliage from mower deck.

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.

Begin a pass at the top side of the trees and work down with each consecutive pass. When cutting trees and shrubs, use a lower speed to allow the knives time to cut as well as mulch the foliage.



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.

If cutter shaft jams and stops, turn mower switch to "OFF", and swivel boom "AFT". Normally this action will clear the cutter head. If not, roll mower deck until adjacent to the secondary boom, then lower boom to rest mower deck on ground. Shut off the tractor, set parking break, allow all motion to cease. At that point it is safe to leave the tractor and clear the cutter heads manually.

Begin each pass at the top side of the trees 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 boom to a safe travel position. Return to starting point and make next pass, etc..

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.

50" BOOM FLAIL

The 50" boom flail mower was designed for cutting brush and foliage up to 2 inches in diameter or multiple branches that have a total cross section area equivalent to one 2 inch branch. Cutting multiple limbs at the same time may overload the mower causing it to slow down or st all completely. Regardless of the size of material being cut, the cutter shaft speed must be maint ained. To ensure that the cutter shaft is running at maximum speed, run the tractor at full throttle during mowing operations. If the cutter shaft slows to the point that the knives are folding back, move the mower head away from the foliage and allow the cutter shaft to regain full speed.



Operating the mower in a manner that allows the knives to continually fold back or allowing knife lugs to contact foliage will cause permanent damage to the cutter shaft drum, knives, and knife attachment parts.



The 50" boom flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels during forward travel). **Never operate the cutter shaft in reverse rotation.** Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.



The 50" boom flail equipped with free swinging brush knives is intended for brush cutting only. Cutting grass is not recommended.



Do not allow knives to cut down to the ground. Position ground roller to maintain knife arc at a minimum of 2 inches above the ground. Knife contact or lug contact with ground will cause permanent damage to cutter shaft, knives, and knife attachment parts.

63" BOOM FLAIL

The 63" boom flail mower was designed for cutting grass. The cutter shaft speed must be maintained for proper cutting. To insure that the cutter shaft is rotating at maximun speed, run tractor at full throttle during mowing operations. If cutter shaft slows to the point that the knives are folding back against the cutter shaft, move the mower head away from the foliage and allow the cutter shaft to regain full speed.

WARNING!



Operating the mower in a manner that allows the knives to contact the drum will cause permanent damage to the cutter shaft drum, knives. and knife attachment parts.

WARNING!

The 63" boom flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels during forward travel). Never operate the **cutter shaft in reverse rotation.** Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.

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 and allow all motion to come to a complete stop. Raise the boom to it's highest position, being cautious of overhead obstructions such as highline wires. Rotate the deck until stop bolt touches secondary boom. Swing boom to a 90 ° angle from tractor. Retract secondary boom until inner skid shoe of the deck just touches the main boom. Check to be sure deck has ample clearance from front and rear tires. The unit is now in position for self transportation.

Transporting unit by flatbed trailer:

Park flatbed on level area. Drive tractor onto center of flatbed to avoid uneven distribution of weight and staying within local width restrictions. If boom is over local height restrictions, you will need to extend booms outward enough to clear front of tractor when boom is pivoted forward. Pivot mower deck to it's extreme outward position and deck cylinder is fully retracted. Lower boom until deck is slightly above trailer bed. Remove cylinder pin from outer end of the boom swivel cylinder.

CAUTION!



CAUTION: If trailer is not perfectly level, the boom will tend to swing towards the lower side. Have other personnel ready to control its swinging motion when cylinder pin is removed.

Retract swivel cylinder and place clear of boom. Pivot boom forward to the center of flat bed. Lower deck onto the trailer bed, and shut offhe tractor. The tractor and the mower head should now be chained down securely to the trailer bed.

CAUTION!



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

OPERATION		
INSPECTION SHEETS		
Rengal Boom Operation Section 3-16		

BOOM MOWER PRE-OPERATION Inspection

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 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 Mounting frame bolts are in place and tight		
The Boom connection bolts & pins are tight		
There are no cracks in boom		
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		
There are no leaking or damaged hoses		
The Hydraulic Oil level is full		
There is no evidence of Hydraulic leaks		
The Blades are not chipped, cracked or bent		
The Blade bolts are tight		
The Deflectors are in place and in good condition		
The Mower shields are in place and in good condition		
The Skid shoes are in good condition & 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		

Operators Signature:	
•	

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

TRACTOR PRE-OPERATION Inspection

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.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Flashing lights function properly		
The SMV Sign is clean and visible		
The Tires are in good condition with proper pressure		
The Wheel Lug bolts are tight		
The tractor Brakes are in good condition		
The Steering linkage is in good condition		
There are no visible Oil Leaks		
The Hydraulic controls function properly		
The ROPS or ROPS Cab is in good condition		
The Seatbelt is in place and in good condition		
The 3-Point Hitch is in good condition		
The Drawbar pins are securely in place		
The PTO Master Shield is in place		
The Engine Oil level is full		
The Brake Fluid level is full		
The Power Steering Fluid Level is full		
The Fuel level is adequate		
The Engine Coolant Fluid level is full		
The Radiator is free of debris		
The Air filter is in good condition		

Operators Signature:	

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

FRONT END LOADER PRE-OPERATION Inspection

Mower ID#	Make
Date:	Shift



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

	P

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		

Operators Signature:

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 into bearings, etc. with grease will cause immediate damage.
- DO NOT use a power grease gun to lubricate bearings. These require very small and exact amounts of lubrication. Refer to the detailed maintenance section for specific lubrication instructions. DO NOT 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 **p**rticular 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 tractors service manual for your particular model. Wheel lugs must always be re-torqued whenever a wheel is removed and reinstalled.

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)



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)



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

DANGER!



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



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

ITEM	SERVICE	COMMENTS
Drive Shaft Yoke, U-Joint	Grease	Grease as instructed in
& Stub Shaft		detailed maint. section
Pump Drive Shaft Coupler	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 as needed
Spindle mounting bolts	Check	Torque to 331 ft. lbs. lubricated
(spindle to deck)		Torque to 357 ft. lbs. dry
Knife mounting bolts	Check	Re-torque to 800 ft. lbs.
(knife to disk or knife to blade bar)	lubricated	
Disk / blade bar mounting blolts	Check	Torque to 180 ft. lbs. lubricated
(disk to spindle)		Torque to 204 ft. lbs. dry
Belts	Check / Adjust	Check if broken, tighten as required
Main Frame and	Check	Retorque bolts to torque specifications in
Deck		this section
Hydraulic Fluid Level	Check	Add if required perfluid recommendations
Rear Flail Drive (if applicable)	Lubricate	Grease as instructed in detailed maint.
Bearing Flange and		section
Shaft Coupler		
Cutter Shaft and	Lubricate	Grease as instructed in detailed maint.
Ground Roller		section.

WEEKLY OR EVERY 50 HOURS

ITEM SERVICE COMMENTS

Change

Change

In Tank Hyd. Fluid

Filter

(10 micron filter)

In-Line High Pressure

Filter

(10 micron filter)

Change

Change after first 50 hours only, then every

500 hours or yearly

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

Max P.S.I. Rear Tire Type 480/80R38 29 18.4-34 26

18.4-38 26

YEARLY OR EVERY 500 HOURS

Spindle Grease Change

Hyd. Tank Fluid Change

In Tank Hyd. Fluid Filter

(10 micron filter)

In-Line HP Filter (10 micron filter) Change or Change when indicated

by restriction indicator.

Hyd. Tank Breather Change

TROUBLESHOOTING

SYMPTOMS CAUSE REMEDY

Vibration 1. Loose bolts 1. Check all bolts and tighten to recommended torque specs.

2. Cutter assembly Unbalanced

2a. Check for damaged blades, disc. 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

2. Leaks in line

2. Tighten or replace fittings and hoses

3. Faulty relief valve 3. Check pressure in line. Line

pressure in Control Valve should be

at least 2500 P.S.I.

4. Kinked or blocked 4. Clean or replace lines

5. Faulty cylinder

5. Inspect, repair or replace cylinder

Bengal Boom Maintenance Section 4-5

SYMPTOMS	(CAUSE		REMEDY
Mower will not start or run	2.		12.	Check fuse between mower switch and ignition / replace Make sure valves are open
	3. 4.	Low oil level Line leak	3. 4.	
	5.	Electronic solenoid faulty	5a.	Without the tractor running, turn 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.
			5b.	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.
			5c.	Clean filter and re-install. 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 will not cut.	1.	Belts	1.	
	2.	Tensioner	2.	Adjust tensioner nut until flat washer is flush with top of guide.
Motor turns slowly or not at all.	1.	Contaminants restricting spool movement in valve body.	1.	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.
	2.	Suction lines obstructed	2.	
		Low oil level		Check Hyd. tank level and fill.
Pump will not work	1.	Excessive wear on internal parts	1.	Disassemble and repair.
Motor will not work	1.	Excessive wear	1	Disassemble and repair.

Technical Ser this manual.	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 Dia.	threads per		\rangle	Grade 2		>	Grade 5		•	Grade 8			Grade 9
Dia.	inch	Tig	htening Tor	que	Tig	htening To	rque	Tig	htening Tor	que	Tig	htening Tord	que
	IIICII	Lubed	Dry Plated	Dry plain	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
					Unit	fied Coa	rse Threa	ad Series	3				
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 /0	7	200	210	254	500	675	704	000	1005	1200	1122	1202	1510

Fine Thread Series

1/4	28	56 in-lbs	68 in-lbs	75 in-lbs	87 in-lbs	99 in-lbs	116 in-lbs	123 in-lbs	139 in-lbs	164 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs	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

D = Nominal Diameter F = Clamp Load

K = 0.20 for plain and dry conditions

Torque-Tension Relationship for Metric Fasteners

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

Clamp load calculated as 75% of the proof load for specified bolts. K = 0.15 for "lubricated" conditions D = Nominal Diameter K = 0.17 for zinc plated, dry conditions F = Clamp Load All torque values are listed in foot-pounds Torque values calculated from formula T=KDF, where K = 0.20 for plain and dry conditions

* These are intended to be general specifications. See tractor operators or service manual for exact specifications for your unit. Bengal Boom Maintenance Section 4-8

Description	Application	General Specification	Recomended Mobil Lubricant
Tractor Hydraulics	Reservoir	JD-20C MF M1135,M1141 FNHM2C134D (FNH201)	Mobilfluid 424
Mower Hydraulics Cold Temperatures 0 F Start-Up Normal Temperatures 10 F Start-Up	Reservoir	ISO 46 Anti-Wear - Low Temp JD-20C	Mobil DTE 15M Mobilfluid 424
		MF M1135,M1141 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	
Drive Shaft Yoke, U-Joint & Stub Shaft	Grease	Lithium-Complex	Mobilgrease CM-S
	Gun	Extreme Pressure NLGI 2 - ISO 320	
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.

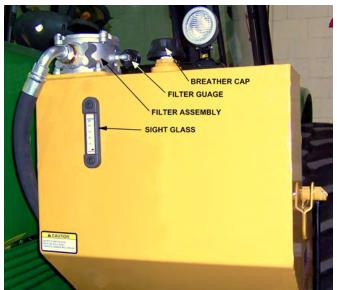
To remove labels, stickers, etc., the use of kerosene or VM&Pnaphtha are generally effective. When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal.

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.

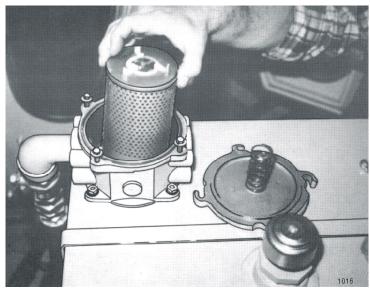
The reservior should be filled to the top of the lower sight glass on the side of the tank OR check the sight guage for the appropriate level. Do not over-fill. The reservior has been over-filled when oil is visible in the upper sight glass. If tank has too much oil, the excess may be expelled through the pressurized breather.



DETAILED MAINTENANCE

REPLACEING IN-TANK HYDRAULIC FILTER:

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

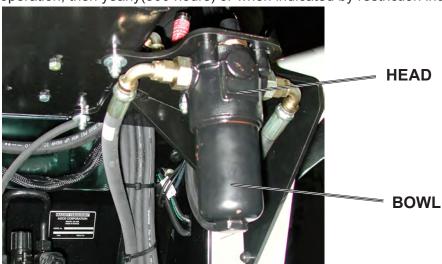


Bengal Boom Maintenance Section 4-11

DETAILED MAINTENANCE

FOR TRACTORS EQUIPPED WITH A HIGH PRESSURE HYDRAULIC FILTER REPLACEING FILTER ELEMENT:

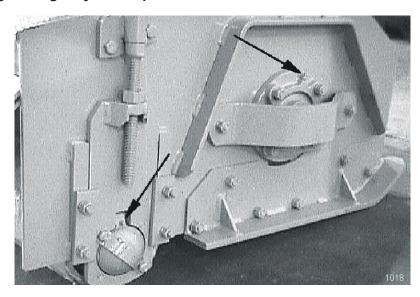
Assure system has been shut down and de-pressurized. Locate High Pressure Filter housing. Confirm that the element that is about to be installed matches the element p/n on the filter model tag. Example: V3.0510-06 (world line 100, HD049 model) Locate the bottom of the High Pressure Bowl, and use the 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 CUTTER SHAFT – FLAIL MOWERS

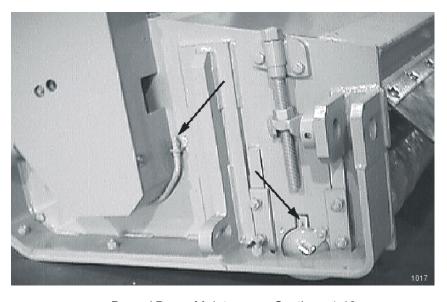
Locate grease zerks on each end of cutter shaft(s), these are located on the bearing cover. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at 8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

Over greasing may cause premature seal failure.



GREASING GROUND ROLLER SHAFT - FLAIL

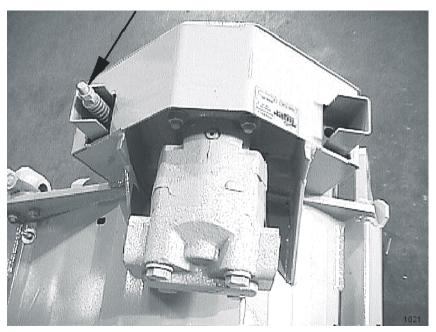
Locate grease zerks on each end of roller tube at lower rear of head. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at 8 hour intervals. CAUTION: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



Bengal Boom Maintenance Section 4-13

ADJUSTING / CHECKING BELT TENSION

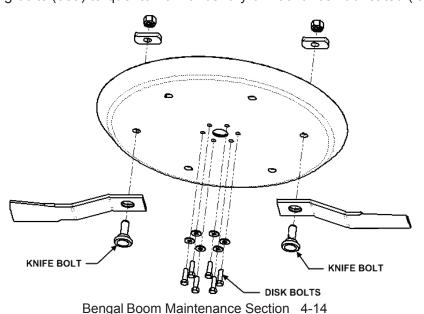
To adjust belt tension or replace belt s on flail cutter head, remove four bolt s that secure belt cover and remove cover. The hex nuts shown below can be adjusted to increase / decrease the belt tension as needed. (NOTE: Location of adjustment nuts may vary on flail cutter heads.) Be sure to replace the belt cover BEFORE operating mower!



TIGHTENING KNIFE BOLTS AND DISK BOLTS:

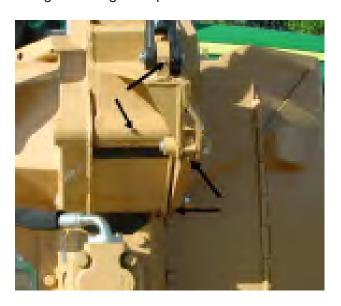
After every 8 hours of operation or daily, the Knife Bolts and Disk Bolts should be tightened as follows:

Knife mounting bolts (2ea) torque to 800 ft. lbs. lubricated
Disk mounting bolts (6ea) torque to 204 ft. lbs. dry or 180 ft. lbs. lubricated (loctite 271)



GREASING POINTS ON BOOM AND PIVOT

Locate grease zerks (8) on deck pivot assembly , (2) on deck end of secondary boom, (2) at main / secondary boom joint, and (2) at swivel end of main boom. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until grease begins to protrude from ends.



DECK STOP ADJUSTMENT

Loosen locking nut. Turn adjustment bolt in, and run deck cylinder out to full extension. Adjust bolt out until the head just touches the boom, and tighten lock nut. **NOTE: Bolt should not hit boom before cylinder reaches full travel.**



GREASING SPINDLE

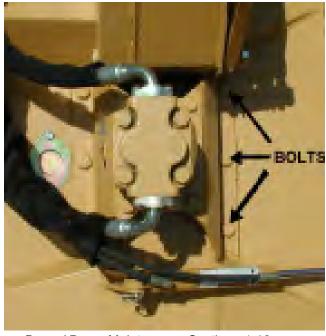
Locate grease fitting on inside of deck housing. Injec<u>Tiger Spindle Lubricant</u>, part number<u>06540000</u> into spindle housing. Fill with lubricant until lubricant weeps out of top spindle seal. Lubricate spindle weekly or every 40 hours of use.



TIGHTENING SPINDLE BOLTS

The spindle mounting bolts should be checked and retorqued daily or every 8 hours of service. Torque the (6) bolts shown below as follows:

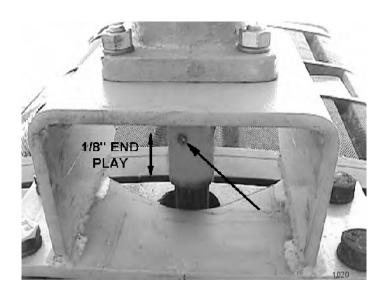
Torque to 315 ft. lbs. lubricated (loctite 271) Torque to 357 ft. lbs. dry



Bengal Boom Maintenance Section 4-16

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 bolt s, 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.



DRIVE SHAFT YOKE, U-JOINT & STUB SHAFT

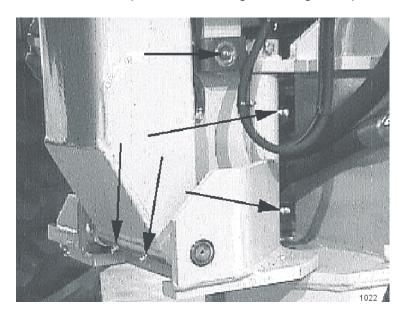
With engine stopped, inject Lithium-Complex extreme pressure grease conforming to NLGI2-ISO 320 specifications into universal joints and slip yoke untill grease appears at the seal. Grease them daily or every 8 hours .





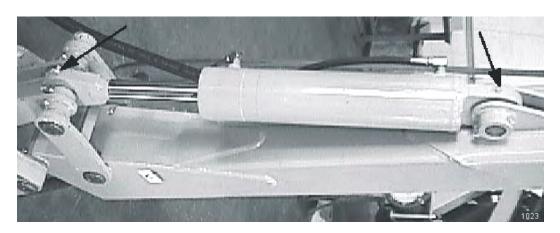
GREASING THE BOOM SWIVEL

Locate the zerks on the main swivel boss (2), main boom pivot boss (2) and on both ends of the boom swivel cylinder. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specification until grease begins to protrude from ends.



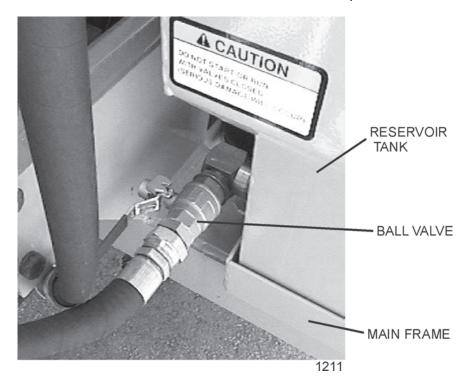
GREASING BOOM CYLINDER(S) PIVOT POINTS

Locate the zerk on the butt end tang of cylinder and on rod end tang. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until grease begins to protrude from ends. This procedure is to be used on the main boom cylinder, secondary boom cylinder, deck pivot, and swivel cylinders daily or at 8 hour intervals.



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 will result in component failure!



INSPECTION OF ROTARY KNIFE



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

- 1 **DO NOT** weld on the knives or bolts. Damaged or worn knives must be replaced.
- 2 Knives must be replaced in sets. Knives with unequal wear may cause serious vibration and resulting structural damage to the mower.
- 3 The self-locking nuts for the knife mounting bolts must **NOT** be reused. If the self-locking nut is removed from the knife mounting bolt, the nut**must** be replaced with a new self-locking nut.
- 4 Inspect the condition and tightness of the knife mounting bolts and disk mounting bolts daily.

ROTARY KNIFE REPLACEMENT

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



WHEN CUTTING HEAVY BRUSH, KNIFE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 800 FT. LBS. LUBRICATED

REPLACEMENT OF ROTARY DISK OR BAR

CAUTION



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

- 1 The bolts that attach the disk to the spindle must be grade 8. These 5/8 inch bolts are to be torqued to 180 ft. lbs. lubricated (loctite 271) or 204 ft. lbs. dry
- 2 A thread locking agent may be applied to threads of all mounting bols before they are installed.
- 3 Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knife mounting bolts. These cracks indicate metal fatique caused by severe abuse. If cracks are present the disk must be replaced.
- 4 Inspect the disk mounting bolts daily when checking tightness of knife mounting bolts. If a disk mounting bolt is loose, it must be removed, threads cleaned, fresh thread locking agent applied, and tightened to proper torque value.
- 5 If a knife mounting bolt is loose, the self locking nut must be replaced as a safety precaution. Lubricate threads with anti-seize. Install bolts through knife and disk or blade bar from bottom side. Install self locking nuts and torque them to 800 ft. lbs.

50" FLAIL KNIFE BLADE REPLACEMENT

- 1 If knives are damaged or badly worn, they will need to be replaced as a settleplacing 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.
- 5 apply loctite "271" or equivalent to threads.
- 6 Torque nut to 50 ft lbs. Knife must swing freely.

WARNING!



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

63" BOOM FLAIL KNIFE REPLACEMENT

- 1 If knives are damaged or badly worn, they will need to be replaced as a selecting 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 Torque nut to 35 FT. LBS. Knife must swing freely.

WARNING!



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

WARNING!



Knives should not be welded on for any reason.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

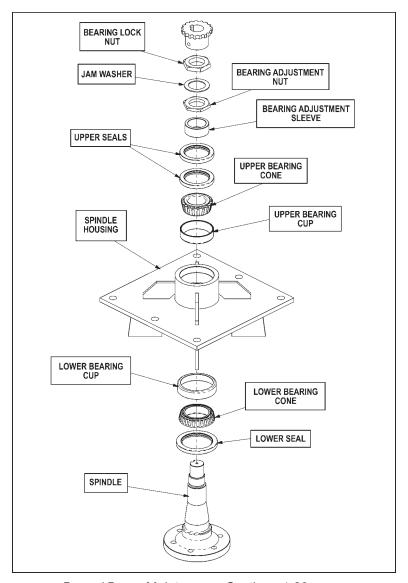
WARNING! A press MUST be used to install bearing cups, bearing cones, and seals. DO NOT use a hammer to install races, bearings, or seals. The parts of assembly may be damaged.

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

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

THE SPINDLE ASSEMBLY

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



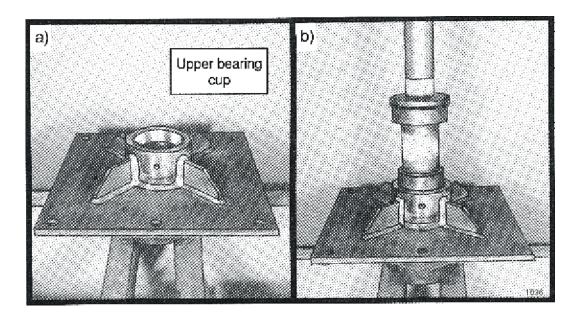
Bengal Boom Maintenance Section 4-23

BEARING INSTALLATION

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

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

- 6 Press the two upper seals into the spindle housing. The inner lip of the seals must be UP, away from the bearing, so excess lubricant can escape.
- 7 Install the bearing adjustment nut (thin nut) so there is 1/16" clearance between the nut and the sleeve. Install the jam washer, placing the tab into the key-way. Install the bearing lock nut (thick nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.
- 8 Position the spindle housing horizontally with the drain hole oriented "up." Grease through the zerk with Tiger Spindle Lubricant(part number 06540000) until the grease purges from the drain hole.
- 9 Install the plug into the drain hole.

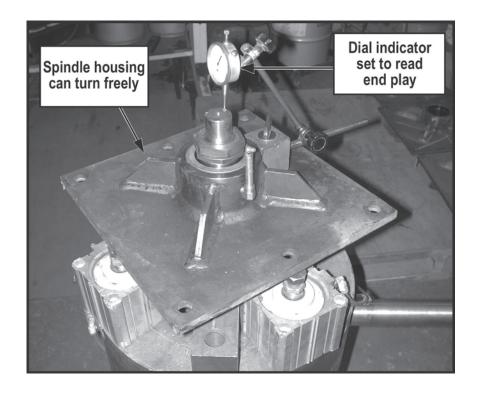


BEARING ADJUSTMENT

- 1 Clamp the bottom end of the spindle securely in a vise so the spindle housing turns freely.
- 2 Position a magnetic base dial indicator on the outer diameter of the spindle housing. Locate the end of the dial indicator against the flat end of the spindle shaft. The dial indicator will now measure accurately bearing end play.
- 3 Tighten the bearing adjustment nut until there is .012 inch movement when the spindle housing is pried upward away from the vise jaws.
- 4 When there is .012 inch free play between the spindle and housing, install the bearing lock nut (thick nut). Hold the adjusting nut securely and tighten the lock nut to 300 ft. lbs. of torque.
- 5 After the lock nut is tightened, there must be .001 inch to .003 inch of free play when lightly prying up on the spindle housing.

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

If the end play is correct, .001 inch to .003 inch, bend tabs up on jam washer to prevent the lock nut from loosening.



DAILY MAINTENANCE SCHEDULE

The following services should be performed aily or every 8 hours of service, following the detailed maintenance instructions in the operators manual.

Pump Drive Shaft: If required with drive shaft / coupler check for end play 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 pper or cardboard. Tighten fittings or replace hoses immediately					
 _ Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.					
 Belts: Check /Tighten / Replace belts as needed.					
 Main Frame / Deck: Unless otherwise specified retorque bolts according to torque specifications in this section.					
 Hydraulic Fluid Level: Add, if required, per fluid recommendations.					
 Rear Flail Drive, Bearing Flange and Shaft Couplers: Grease as instructed in the detailed (if applicable) maintenance section.					
 Cutter Shaft and Ground Roller: Grease as instructed in the detailed maintenance section					
performed by: Date:// Hour					
Maintananaa Caatian					

Maintenance Section

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

JD 72-7510 – BOOM MOWER	
S	PARTS ECTION
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.

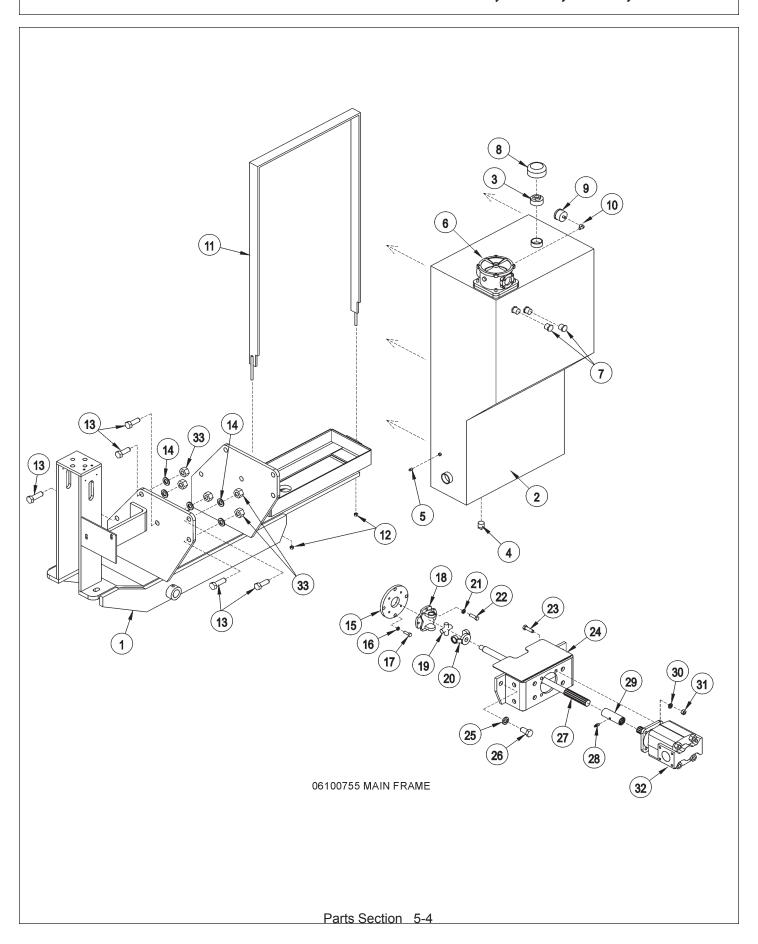
Direct any questions regarding parts to:

Tiger Corporation3301 N. Louise Ave.
Sioux Falls, SD 57107
1-800-843-6849
1-605-336-7900

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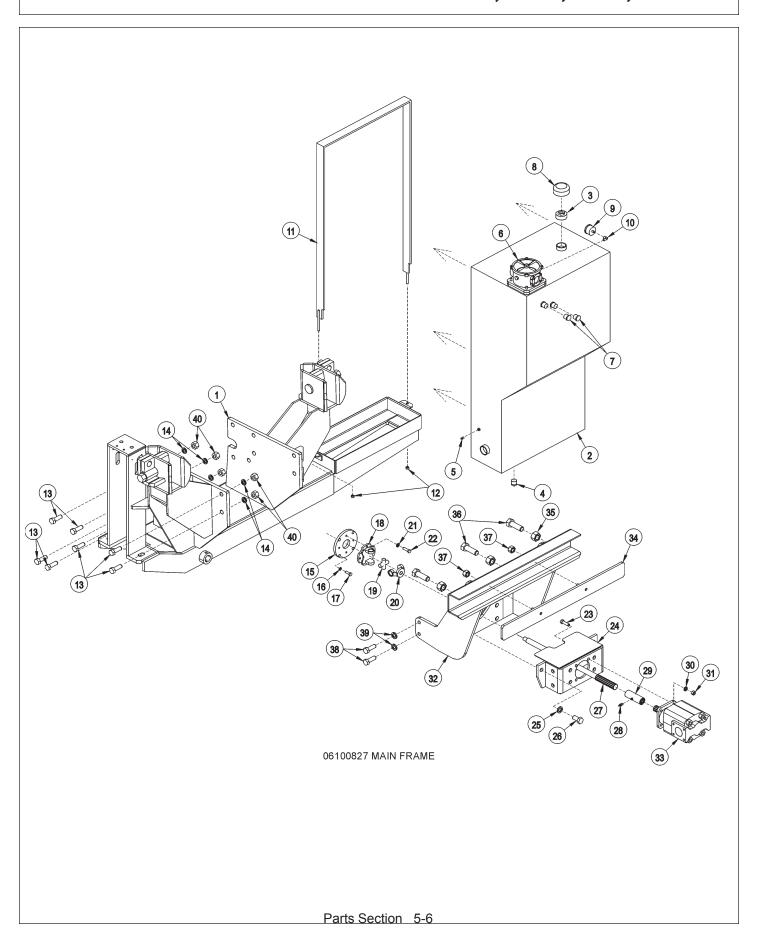
TRACTOR MOUNT KIT - MAIN FRAME, 7210, CAB, 4WD



TRACTOR MOUNT KIT - MAIN FRAME, 7210, CAB, 4WD

ITEM	PARTNO.	QTY.	DESCRIPTION
1 * 2 3 4 5 6 7 8 9 10	30791 28193 28192D 33700 6T4200 6T4197 6T0640 6T1209 31004 6T0649 TF4888 28191B	1 AVAIL 1 1 1 1 2 1 1 1	MAIN FRAME RESERVOIR TANK ASY RESERVOIR TANK REDUCER BUSHING PIPE PLUG PIPE PLUG IN-TANK FILTER ASY TANK SIGHT GLASS TANK BREATHER FILTER GAUGE STREET ELBOW RESERVOR TANK STRAP
12 13 14 15 16 17 *	21627 24879 24881 28853A 6T2624 6T2514 24983A	2 4 1 4 4 AVAIL	NYLOCK NUT 3/8" CAPSCREW 20MM X 65MM LOCKWASHER 20MM CRANKSHAFT ADAPTER PLATE LOCKWASHER 14MM CAPSCREW 14MM X 40MM CRANKSHAFT ADAPTER ASY
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	24984B 24975 24974 21987 21581 21732 32642 24881 31731 32639 6T2307 6T0375B 21990 21725 23152 31722	1 1 1 4 4 4 1 4 1 1 1 1 4 4 1	YOKE ADAPTER PLATE BEARING U-JOINT KIT YOKE WITH THREADED INSERT LOCKWASHER 5/16" CAPSCREW 5/16" X 1 1/8"" CAPSCREW 1/2" X 1 3/4" PUMP MOUNTING BRACKET FLATWASHER 20MM CAPSCREW 20MM X 50MM PUMP DRIVE SHAFT GREASE ZERK 1/4" STRAIGHT SPLINE COUPLING WITH ZERK LOCKWASHER 1/2" HEX NUT 1/2" PUMP 1 3/4" GEAR HEX NUT 20MM

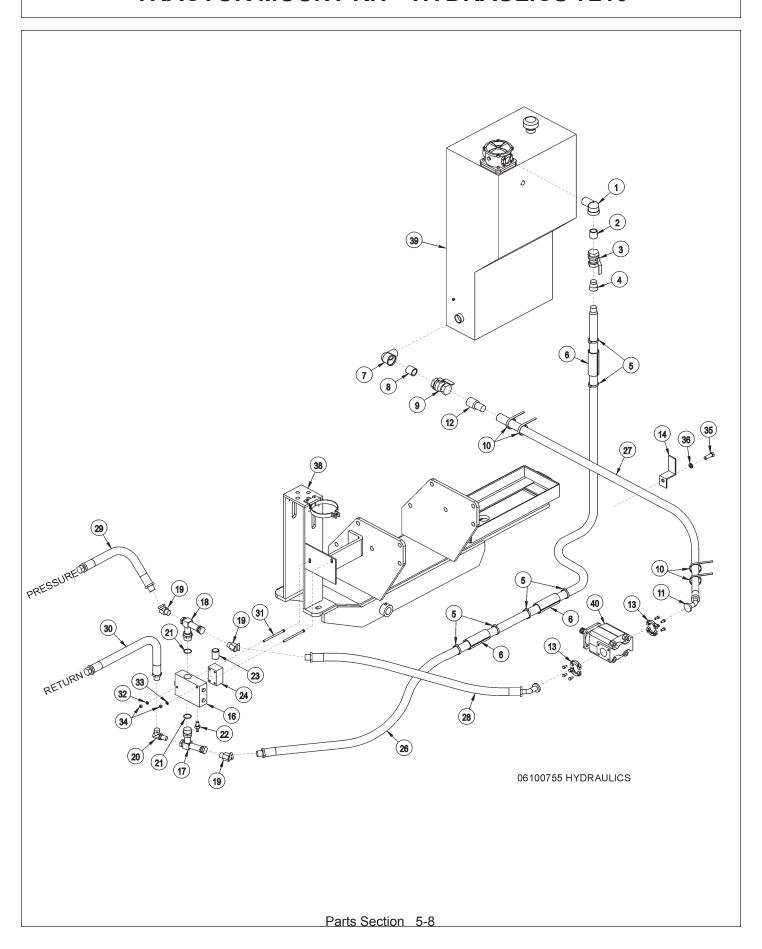
TRACTOR MOUNT KIT - MAIN FRAME, 7510, CAB, 4WD



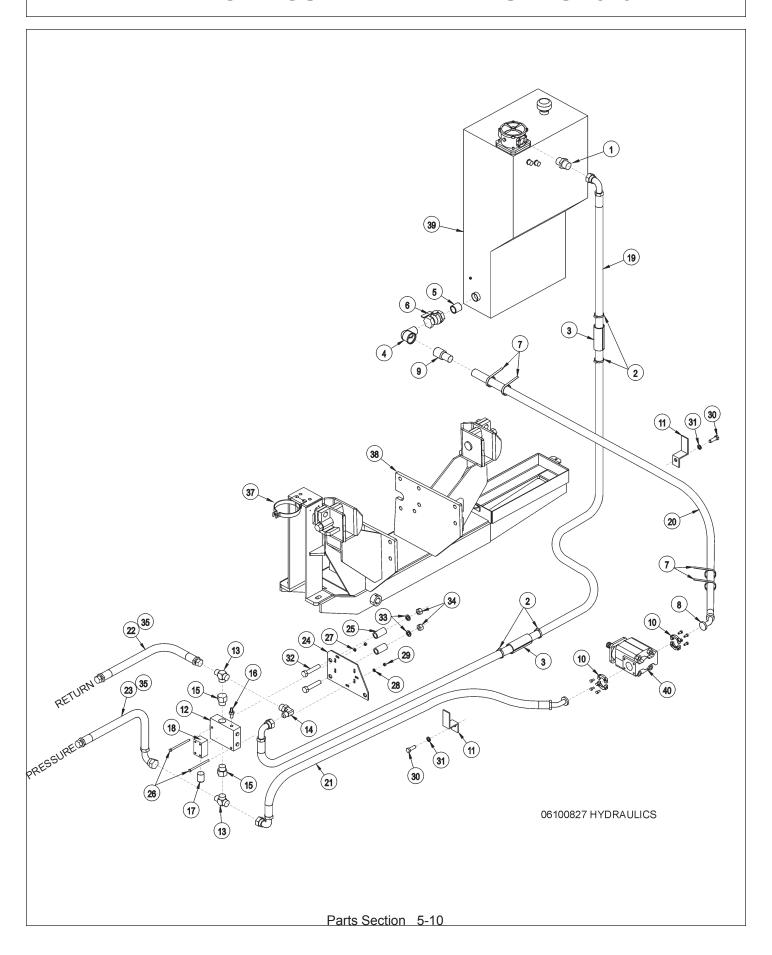
TRACTOR MOUNT KIT - MAIN FRAME, 7510, CAB, 4WD

ITEM	PARTNO.	QTY.	DESCRIPTION
1 * 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 * 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	34000 28193 28192D 33700 6T4200 6T4200 6T4197 6T0640 6T1209 31004 6T0649 TF4888 28191B 21627 34028 24881 28853A 6T2624 6T2514 24983A 24984B 24975 24974 21987 21581 21732 32642 24881 24879 32639 6T2307 6T0375B 21990 21725 34008 23152 34009 6T0837 21938 21727 6T2289 21992	1 AVAIL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAIN FRAME RESERVOIR TANK ASY RESERVOIR TANK REDUCER BUSHING PIPE PLUG PIPE PLUG IN-TANK FILTER ASY TANK SIGHT GLASS TANK BREATHER FILTER GAUGE STREET ELBOW RESERVOR TANK STRAP NYLOCK NUT 3/8" CAPSCREW 20MM X 55MM LOCKWASHER 20MM CRANKSHAFT ADAPTER PLATE LOCKWASHER 14MM CAPSCREW 14MM X 40MM CRANKSHAFT ADAPTER ASY YOKE ADAPTER PLATE BEARING U-JOINT KIT YOKE WITH THREADED INSERT LOCKWASHER 5/16" CAPSCREW 5/16" X 1" CAPSCREW 1/2" X 1 3/4" PUMP MOUNTING BRACKET FLATWASHER 20MM CAPSCREW 20MM X 65MM PUMP DRIVE SHAFT GREASE ZERK 1/4" STRAIGHT SPLINE COUPLING WITH ZERK LOCKWASHER 1/2" HEX NUT 1/2" FRONT FRAME, LOADER PUMP 1 3/4" GEAR FRONT ADJUSTING PLATE HEX NUT 1" CAPSCREW 1" X 3 1/2" LYLOCK NUT 1/2" CAPSCREW 5/8" X 2" LOCKWASHER 5/8"
40	31722	14	HEX NUT 20MM

10-4-02

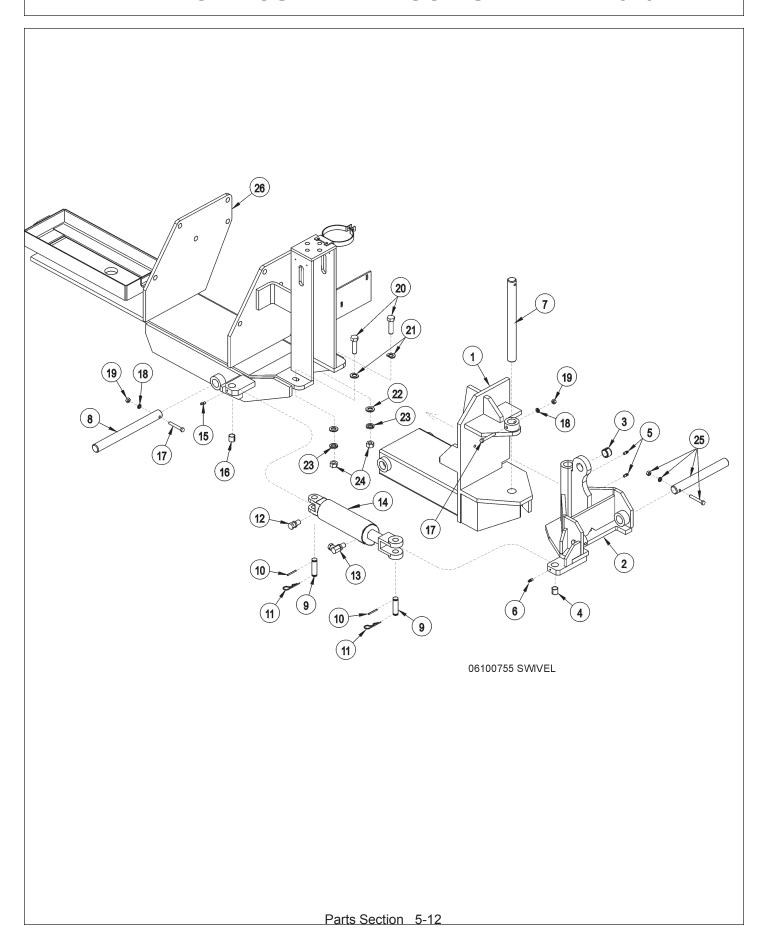


ITEM	PARTNO.	QTY.	DESCRIPTION
1	6T3601	1	STREET ELBOW
2	6T3825	1	NIPPLE
3	6T4237	1	BALL VALVE
4	22890	1	SWIVEL 1 1/4"
5	23568	6	HOSE CLAMP
6	6T3200	3	SPLIT HOSE
7	6T3612	1	STREET ELBOW
8	6T3801	1	NIPPLE
9	6T4238	1	BALL VALVE
10	6T3018	4	BANDIT CLAMPS
11	22631	1	FLANGE
12	6T3800	1	NIPPLE
13	TF4852	2	FLANGE KIT
14	24266	1	HOSE BRACKET - MOUNTED TO TRACTOR CASTING
16	27630	1	SOLENOID VALVE BLANK
17	34035	1	TEE BRANCH
18	24030	1	TEE PREFORMED
19	TF4870	3	SWIVEL
20	TF4869	1	SWIVEL
21	6T3825	2	O-RING
22	6T3910	1	RELIEF VALVE
23	6T3906	1	SOLENOID
24	6T3907	1	SOLENOID BLOCK
26	22858	1	HOSE 1 X 90"
27	22897	6'	HOSE 1 1/2" SUCTION
28	30802	1	HOSE 1" X 68"
29	24039	1	HOSE 1" X 47"
30	27351	1	HOSE 1" X 40"
31	21638	2	CAPSCREW - 3/8" X 3"
32	21988	1	LOCKWASHER - 3/8"
33	6T2665	1	LOCKWASHER - 3/8" STAR
34	21625	2	HEX NUT - 3/8"
35	22423	1	CAPSCREW - 16MM X 50MM
36	6T2625	1	LOCKWASHER - 16MM
37	6T1823	10	ZIP TIE 14" (NOT SHOWN)
38	*	REF.	MAIN FRAME - REFER TO MAIN FRAME PARTS
39	*	REF.	RESERVOIR TANK - REFER TO MAIN FRAME PARTS
40	*	REF.	PUMP - REFER TO MAIN FRAME PARTS



ITEM	PARTNO.	QTY.	DESCRIPTION
1	33458	1	ADAPTER 1 1/4" X 1"
2	23568	6	HOSE CLAMP
3	6T3200	3	SPLIT HOSE
4	6T3612	1	STREET ELBOW
5	6T3801	1	NIPPLE
6	6T4238	1	BALL VALVE
7	6T3018	4	BANDIT CLAMPS
8	22631	1	FLANGE
9	6T3800	1	NIPPLE
10	TF4852	2	FLANGE KIT
11	32382	2	HOSE BRACKET - MOUNTED TO TRACTOR CASTING
12	27360	1	SOLENOID VALVE BLANK
13	34035	2	TEE BRANCH
14	33259	1	ELBOW 90
15	33424	2	ADAPTER 1 1/4"
16	6T3910	1	RELIEF VALVE
17	6T3906	1	SOLENOID
18	6T3907	1	SOLENOID BLOCK
19	34045	1	HOSE 1 X 106"
20	22897	6'	HOSE 1 1/2" SUCTION
21	34041	1	HOSE 1" X 61"
22	34044	1	HOSE 1" X 73"
23	34043	1	HOSE 1" X 79"
24	31095	1	SOLENOID MOUNTING BRACKET
25	31290	2	SPACER
26 27	21638 21988	2 3	CAPSCREW - 3/8" X 3" LOCKWASHER - 3/8"
27 28	6T2665	3 1	LOCKWASHER - 3/8" STAR
29	21625	2	HEX NUT - 3/8"
30	22423	2	CAPSCREW - 16MM X 50MM
31	6T2625	2	LOCKWASHER - 16MM
32	32703	2	CAPSCREW 20MM X 100M X 2.5P
33	24881	2	LOCKWASHER 20MM
34	31722	2	HEX NUT 20MM
35	34049	2	HOSE SLEEVE
36	6T1823	10	ZIP TIE 14" (NOT SHOWN)
37	23888	1	ACCUMULATOR BRKT
38	*	REF.	MAIN FRAME - REFER TO MAIN FRAME PARTS
39	*	REF.	RESERVOIR TANK - REFER TO MAIN FRAME PARTS
40	*	REF.	PUMP - REFER TO MAIN FRAME PARTS

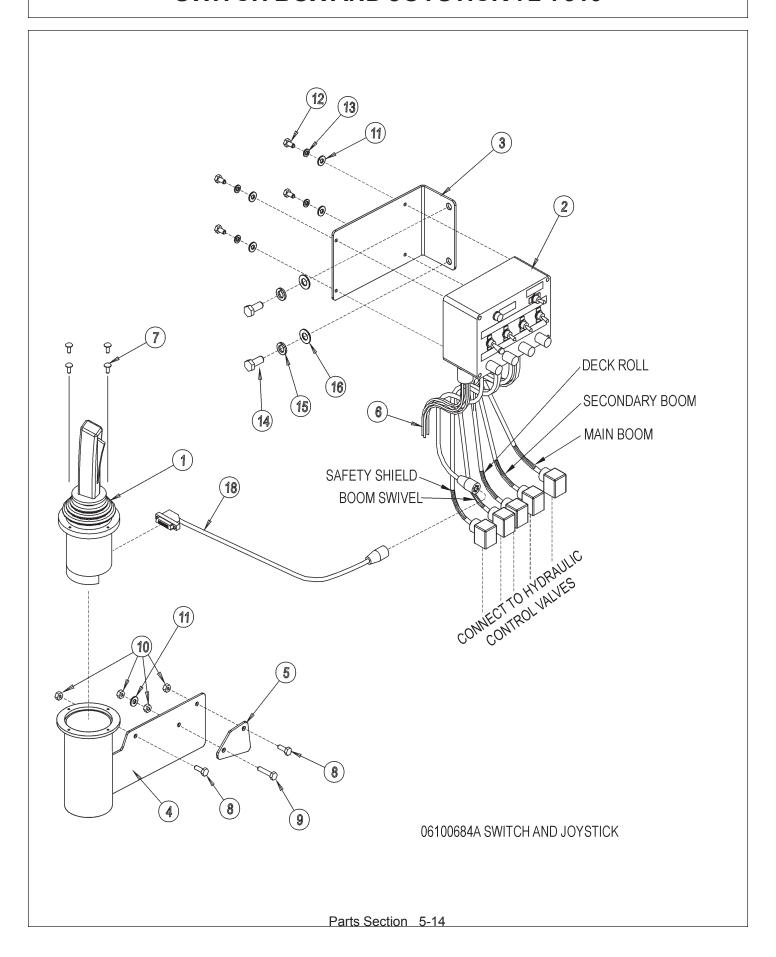
TRACTOR MOUNT KIT - BOOM SWIVEL 72-7510



TRACTOR MOUNT KIT - BOOM SWIVEL 72-7510

ITEM	PARTNO.	QTY.	DESCRIPTION
1	TB3001C	1	BOOM MOUNTING BRACKET
	31021	AVAIL.	BOOM SWIVEL ASSEMBLY
2	28088B	1	BOOM SWIVEL BRACKET
3	33466	1	BUSHING
4	TB3010	1	BUSHING
5 6	6T3210	2	GREASE ZERK - 90 DEG
6	6T3207	1	GREASE ZERK
7	TB3014	1	SWIVEL PIN
8	6T3001	1	INNER DRAFT BEAM PIN
9	6T3003D	1	CLEVIS PIN
10	TB1023	2	ROLL PIN
11	6T3004	2	R-CLIP
12	6T2701	1	SWIVEL FITTING
13	6T0158	1	SWIVEL FITTING
14	34941	1	CYLINDER - 3" X 10" WELDED
15	6T3208	1	GREASE ZERK - 45 DEG
16	TB1030	1	BUSHING
17	21688	2	CAPSCREW - 7/16" X 3 1/4"
18	21989	2	LOCKWASHER - 7/16"
19	21675	2	HEX NUT 7/16"
20	21835	2	CAPSCREW 3/4" X 2 3/4"
21	6T2607	2	FLATWASHER 3/4" CUT
22	22021	2	FLATWASHER 3/4"
23	21993	2	LOCKWASHER 3/4"
24	21825	2	HEX NUT 3/4"
25	*	REF.	PIN / CS / LW - REFER TO BOOM ARM PARTS
26	**	REF.	MAIN FRAME - REFER TO MAIN FRAME PARTS

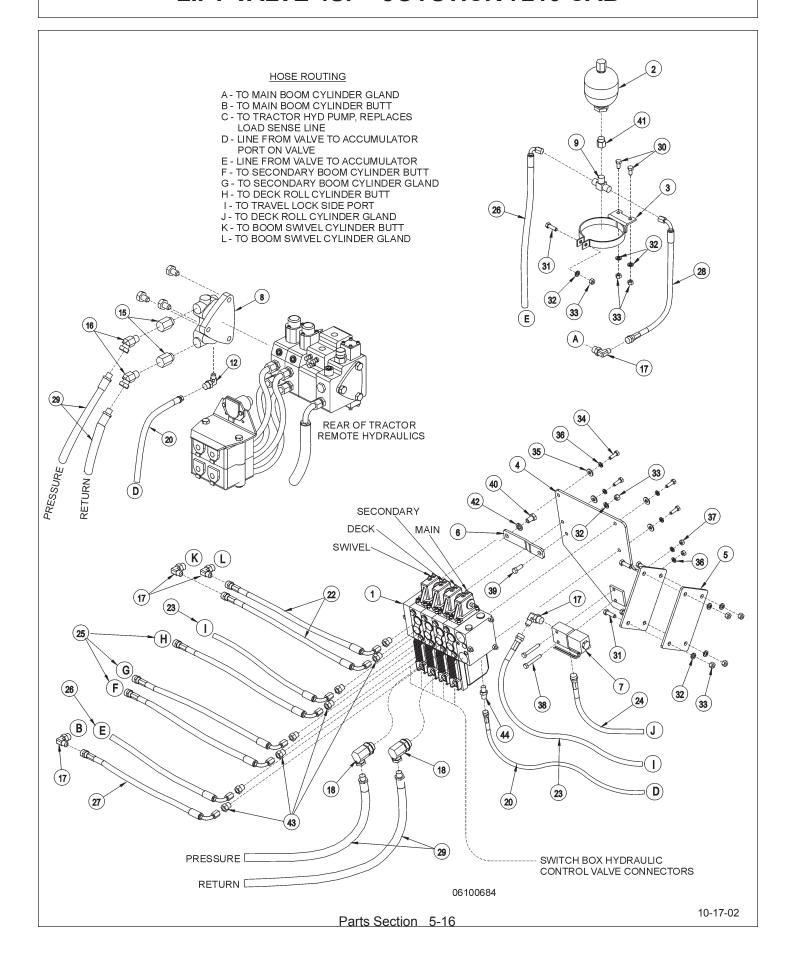
SWITCH BOX AND JOYSTICK 72-7510



SWITCH BOX AND JOYSTICK 72-7510

ITEM	PARTNO.	QTY.	DESCRIPTION
1	33691	1	JOYSTICK CONTROL
2	32498	1	MAIN CONTROL SWITCH BOX
3	32626	1	SWITCH BOX MOUNTING BRACKET
4	32377	1	JOYSTICK MOUNTING BRACKET
5	32623	1	ARMREST MOUNT REINFORCEMENT PLATE
6	PT3905E	16'	WIRE WRAP
7	32829	4	MACHINE SCREW - 10-32 X 3/4"
8	21529	2	CAPSCREW - 1/4" X 3/4"
9	21531	1	CAPSCREW - 1/4" X 1 1/4"
10	21527	4	NYLOCK NUT - 1/4'
11	22014	5	FLATWASHER - 1/4"
12	21529	4	CAPSCREW - 1/4" X 3/4"
13	21986	4	LOCKWASHER - 1/4"
14	6T2496	2	CAPSCREW - 10MM X 20MM
15	32691	2	LOCKWASHER - 10MM
16	32724	2	FLATWASHER - 10MM
17	31592	1	RUBBER GROMMET (NOT SHOWN)
18	33693	1	CABLE - JOYSTICK 4'
19	33518	1	FUSE 10AMP (NOT SHOWN)

LIFT VALVE 4SP - JOYSTICK 7210 CAB



LIFT VALVE 4SP - JOYSTICK 7210 CAB

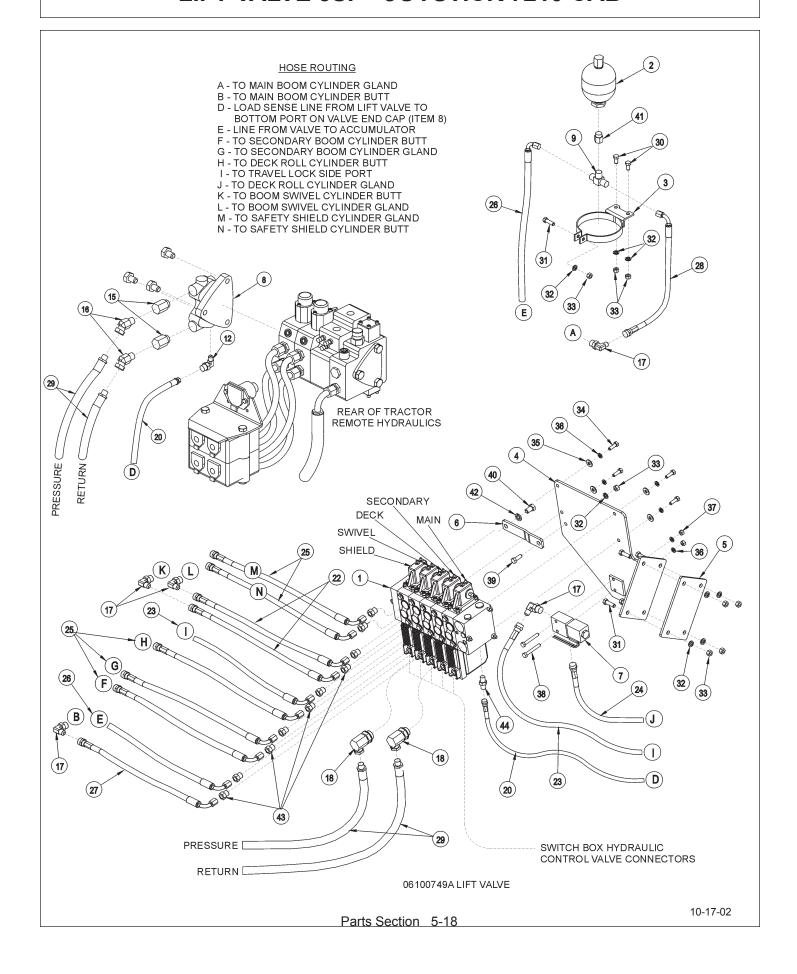
ITEM	PARTNO.	QTY.	DESCRIPTION
1	32001	1	ELECTRONIC VALVE - 4 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	32388	1	VALVE MOUNTING PLATE
5	32619	1	REINFORCEMENT PLATE
6	32389	i 1	VALVE SUPPORT BRACKET
7	31328	1	TRAVEL LOCK VALVE
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
12	31739	1	ELBOW 5/16" MJ 90
15	30548	2	ADAPTER 1/2"
16	TF4878	2	SWIVEL 1/2"
17	32810	5	ELBOW 1/2"
18	TB1100	2	SWIVEL 3/4"
20	34033	1	HOSE 1/4" X 34"
22	32827	2	HOSE 3/8" X 150"
23	32811	1	HOSE 3/8" X 16"
24	32826	1	HOSE 3/8" X 158"
25	32825	3	HOSE 3/8" X 164"
26	32824	1	HOSE 3/8" X 137"
27	32823	1	HOSE 3/8" X 180"
28	32822	1	HOSE 3/8" X 100"
29	32679	2	HOSE 1/2" X 53"
30	21629	2	CAPSCREW 3/8" X 3/4"
31	21631	_ 5	CAPSCREW 3/8" X 1 1/4"
32	21988	8	LOCKWASHER 3/8"
33	21625	8	HEX NUT 3/8"
34	21580	4	CAPSCREW 5/16" X 1"
35	22015	4	FLATWASHER 5/16"
36	21987	6	LOCKWASHER 5/16"
37	21575	2	HEX NUT 5/16"
38	21585	2	CAPSCREW 5/16" X 2 1/4"
39	21630	1	CAPSCREW 3/8" X 1"
40	30163	1	CAPSCREW 12MM X 20MM
41	28917	1	ADAPTER 1/2"
42	27724	1	LOCKWASHER 12MM
43	32807	8	ADAPTER 5/8"
44	33419	1	ADAPTER

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

10-17-02

LIFT VALVE 5SP - JOYSTICK 7210 CAB



LIFT VALVE 5-SP - JOYSTICK 7210 CAB

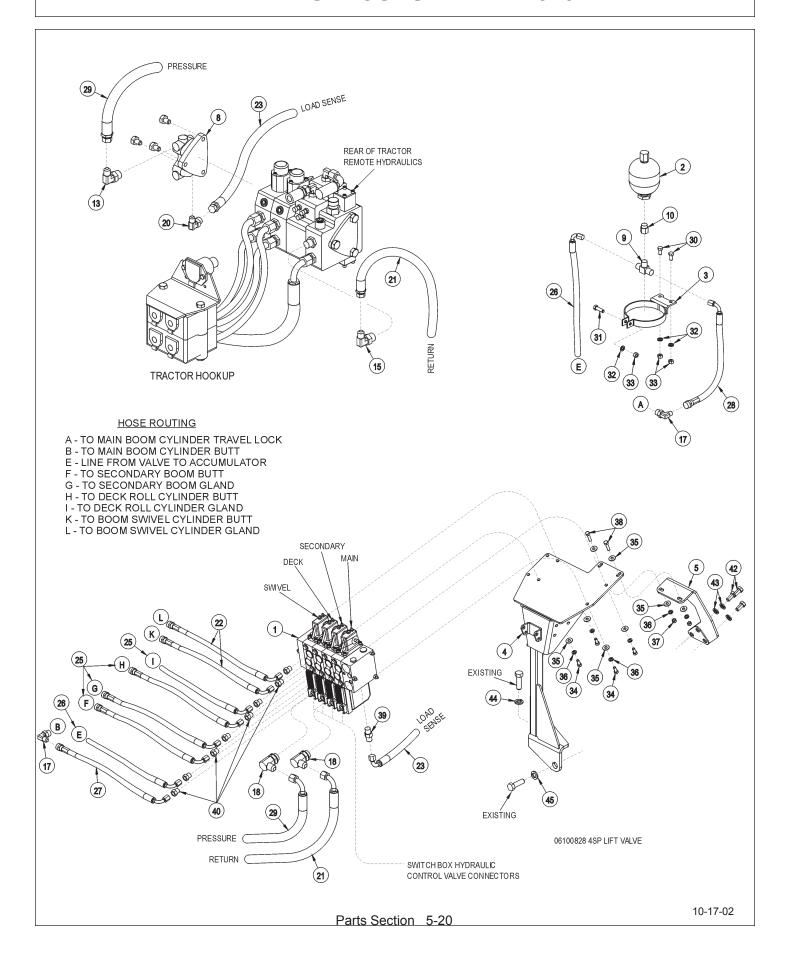
ITEM	PARTNO.	QTY.	DESCRIPTION
1	33291	1	ELECTRONIC VALVE - 5 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	32388	1	VALVE MOUNTING PLATE
5	32619	1	REINFORCEMENT PLATE
6	32389	1	VALVE SUPPORT BRACKET
7	31328	1	TRAVEL LOCK VALVE
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
12	31739	1	ELBOW 5/16" MJ 90
15	30548	2	ADAPTER 1/2"
16	TF4878	2	SWIVEL 1/2"
17	32810	_ 5	ELBOW 1/2"
18	TB1100	2	SWIVEL 3/4"
20	34033	1	HOSE 1/4" X 34"
22	32827	2	HOSE 3/8" X 150"
23	32811	1	HOSE 3/8" X 16"
24	32826	1	HOSE 3/8" X 158"
25	32825	5	HOSE 3/8" X 164"
26	32824	1	HOSE 3/8" X 137"
27	32823	1	HOSE 3/8" X 180"
28	32822	1	HOSE 3/8" X 100"
29	32679	2	HOSE 1/2" X 53"
30	21629	2	CAPSCREW 3/8" X 3/4"
31	21631	5	CAPSCREW 3/8" X 1 1/4"
32	21988	8	LOCKWASHER 3/8"
33	21625	8	HEX NUT 3/8"
34	21580	4	CAPSCREW 5/16" X 1"
35	22015	4	FLATWASHER 5/16"
36	21987	6	LOCKWASHER 5/16"
37	21575	2	HEX NUT 5/16"
38	21585	2	CAPSCREW 5/16" X 2 1/4"
39	21630	1	CAPSCREW 3/8" X 1"
40	30163	1	CAPSCREW 12MM X 20MM
41	28917	1	ADAPTER 1/2"
42	27724	1	LOCKWASHER 12MM
43	32807	10	ADAPTER 5/8"
44	33419	1	ADAPTER

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

10-17-02

LIFT VALVE 4SP - JOYSTICK 74-7510 CAB



LIFT VALVE 4SP - JOYSTICK 74-7510 CAB

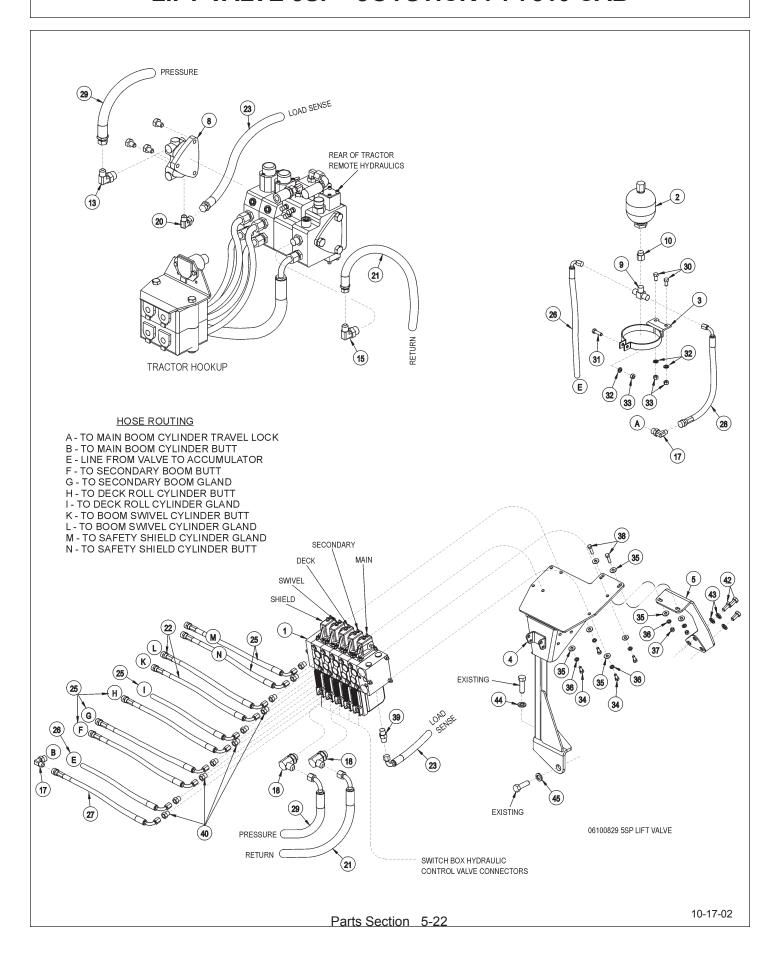
ITEM	PARTNO.	QTY.	DESCRIPTION
1	32001	1	ELECTRONIC VALVE - 4 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	34003	1	VALVE MOUNTING STAND
5	34012	1	VALVE SUPPORT BRACKET
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
10	28917	1	ADAPTER 1/2"
13	34019	1	ELBOW 1/2" FFS
15	34021	1	ELBOW
17	32810	2	ELBOW 1/2"
18	33294	2	ELBOW
20	31739	1	ELBOW
21	34022	1	HOSE 1/2" X 13"
22	33599	2	HOSE 1/4"" X 132"
23	34033	1	HOSE 1/4" X 35"
25	34027	4	HOSE 1/4" X 164"
26	34025	1	HOSE 1/4" X 152"
27	34026	1	HOSE 1/4" X 182"
28	33397	1	HOSE 1/4" X 55"
29	34023	1	HOSE 1/2" X 22"
30	21629	2	CAPSCREW - 3/8" X 3/4"
31	21631	1	CAPSCREW - 3/8" X 1 1/4"
32	21988	3	LOCKWASHER - 3/8"
33	21625	3	HEX NUT - 3/8"
34	21580	4	CAPSCREW - 5/16" X 1"
35	22015	8	FLATWASHER - 5/16"
36	21987	6	LOCKWASHER - 5/16"
37	21575	2	HEX NUT - 5/16"
38	21581	2	CAPSCREW - 5/16" X 1 1/2"
39	33419	1	ADAPTER
40	32807	8	ADAPTER 5/8"
42	34015	3	CAPSCREW 12MM X 25MM
43	27724	3	LOCKWASHER 12MM
44	6T2625	1	LOCKWASHER 16MM
45	24881	1	LOCKWASHER 20MM

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

10-17-02

LIFT VALVE 5SP - JOYSTICK 74-7510 CAB



LIFT VALVE 5SP - JOYSTICK 74-7510 CAB

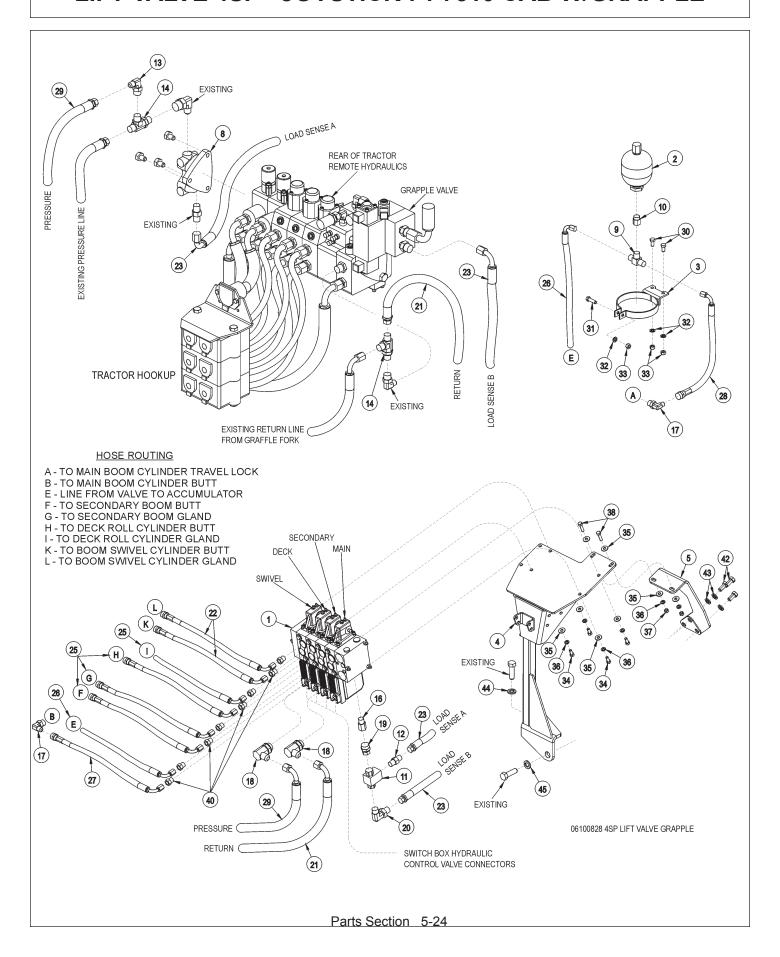
ITEM	PART NO.	QTY.	DESCRIPTION
1	33291	1	ELECTRONIC VALVE - 5 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	34003	1	VALVE MOUNTING STAND
5	34012	1	VALVE SUPPORT BRACKET
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
10	28917	1	ADAPTER 1/2"
13	34019	1	ELBOW 1/2" FFS
15	34021	1	ELBOW
17	32810	2	ELBOW 1/2"
18	33294	2	ELBOW
20	31739	1	ELBOW
21	34022	1	HOSE 1/2" X 13"
22	33599	2	HOSE 1/4"" X 132"
23	34033	1	HOSE 1/4" X 35"
25	34027	6	HOSE 1/4" X 164"
26	34025	1	HOSE 1/4" X 152"
27	34026	1	HOSE 1/4" X 182"
28	33397	1	HOSE 1/4" X 55"
29	34023	1	HOSE 1/2" X 22"
30	21629	2	CAPSCREW - 3/8" X 3/4"
31	21631	1	CAPSCREW - 3/8" X 1 1/4"
32	21988	3	LOCKWASHER - 3/8"
33	21625	3	HEX NUT - 3/8"
34	21580	4	CAPSCREW - 5/16" X 1"
35	22015	8	FLATWASHER - 5/16"
36	21987	6	LOCKWASHER - 5/16"
37	21575	2	HEX NUT - 5/16"
38	21581	2	CAPSCREW - 5/16" X 1 1/2"
39	33419	1	ADAPTER
40	32807	10	ADAPTER 5/8"
42	34015	3	CAPSCREW 12MM X 25MM
43	27724	3	LOCKWASHER 12MM
44	6T2625	1	LOCKWASHER 16MM
45	24881	2	LOCKWASHER 20MM

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

10-17-02

LIFT VALVE 4SP - JOYSTICK 74-7510 CAB W/GRAPPLE



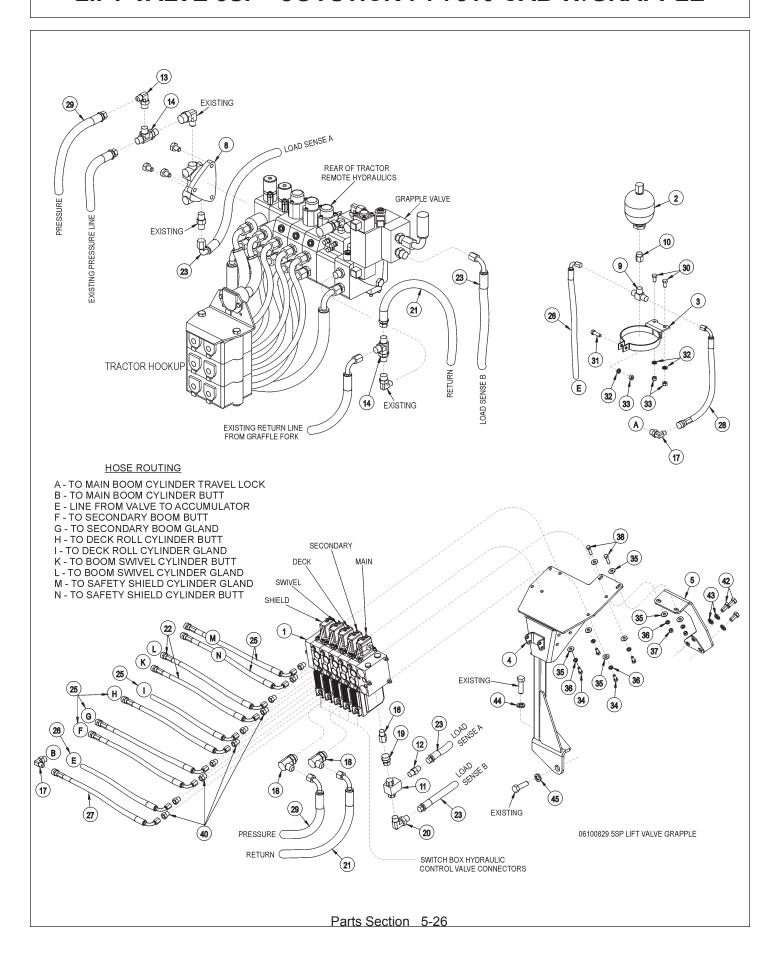
LIFT VALVE 4SP - JOYSTICK 74-7510 CAB W/GRAPPLE

ITEM	PARTNO.	QTY.	DESCRIPTION
1	32001	1	ELECTRONIC VALVE - 4 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	34003	1	VALVE MOUNTING STAND
5	34012	1	VALVE SUPPORT BRACKET
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
10	28917	1	ADAPTER 1/2"
11	33388	1	TEE - SHUTTLE 1/4"
12	32901	1	SWIVEL
13	34019	1	ELBOW 1/2" FFS
14	34018	2	TEE
16	33392	1	ADAPTER
17	32810	2	ELBOW 1/2"
18	33294	2	ELBOW
19	33940	1	SWIVEL
20	32902	1	ELBOW
21	34022	1	HOSE 1/2" X 13"
22	33599	2	HOSE 1/4"" X 132"
23	34024	2	HOSE 1/4" X 35"
25	34027	4	HOSE 1/4" X 164"
26	34025	1	HOSE 1/4" X 152"
27	34026	1	HOSE 1/4" X 182"
28	33397	1	HOSE 1/4" X 55"
29	34023	1	HOSE 1/2" X 22"
30	21629	2	CAPSCREW - 3/8" X 3/4"
31	21631	1	CAPSCREW - 3/8" X 1 1/4"
32	21988	3	LOCKWASHER - 3/8"
33	21625	3	HEX NUT - 3/8"
34 35	21580 22015	4 8	CAPSCREW - 5/16" X 1" FLATWASHER - 5/16"
36	21987	6	LOCKWASHER - 5/16"
36 37	21575	2	HEX NUT - 5/16"
38	21575	2	CAPSCREW - 5/16" X 1 1/2"
30 40	32807	8	ADAPTER 5/8"
40 42	34015	3	CAPSCREW 12MM X 25MM
43	27724	3	LOCKWASHER 12MM
44	6T2625	1	LOCKWASHER 16MM
45	24881	1	LOCKWASHER 20MM
70	2-700 I	ı	LOOK VAOI ILIX ZUIVIIVI

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

LIFT VALVE 5SP - JOYSTICK 74-7510 CAB W/GRAPPLE



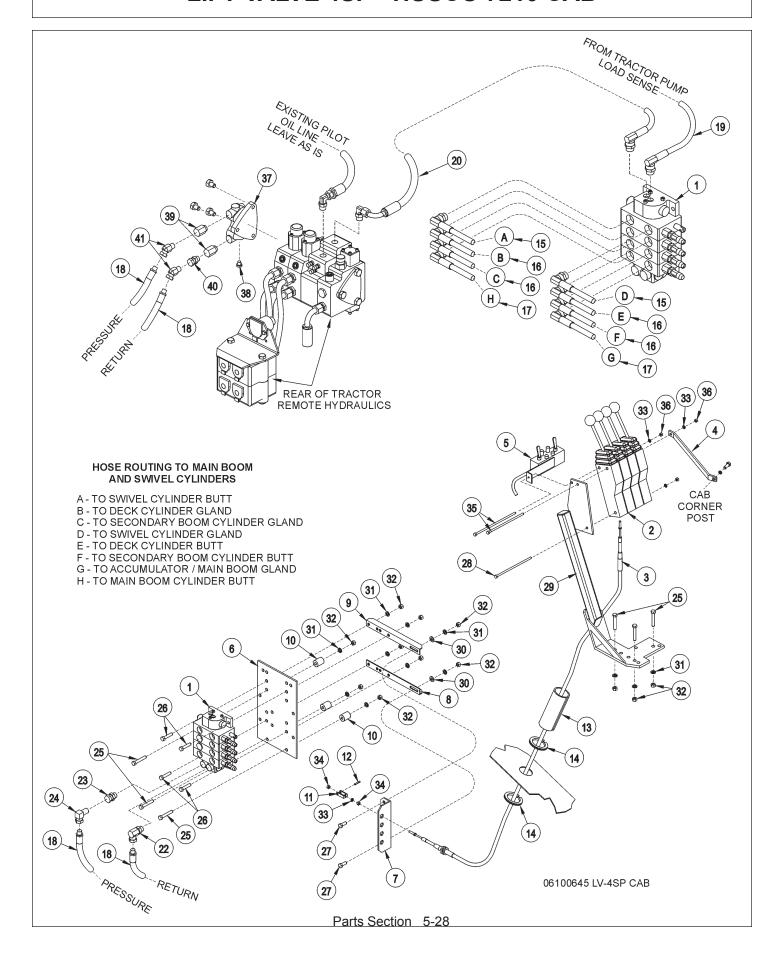
LIFT VALVE 5SP - JOYSTICK 74-7510 CAB W/GRAPPLE

ITEM	PARTNO.	QTY.	DESCRIPTION
1	33291	1	ELECTRONIC VALVE - 5 SPOOL
2	24300	1	ACCUMULATOR
3	23888	1	ACCUMULATOR MOUNTING BRACKET
4	34003	1	VALVE MOUNTING STAND
5	34012	1	VALVE SUPPORT BRACKET
8	33898	1	TRACTOR VALVE END CAP SEE NOTE 1 BELOW
9	32700	1	TEE 3/8"
10	28917	1	ADAPTER 1/2"
11	33388	1	TEE - SHUTTLE 1/4"
12	32901	1	SWIVEL
13	34019	1	ELBOW 1/2" FFS
14	34018	2	TEE
16	33392	1	ADAPTER
17	32810	2	ELBOW 1/2"
18	33294	2	ELBOW
19	33940	1	SWIVEL
20	32902	1	ELBOW
21	34022	1	HOSE 1/2" X 13"
22	33599	2	HOSE 1/4"" X 132"
23	34024	2	HOSE 1/4" X 35"
25	34027	6	HOSE 1/4" X 164"
26	34025	1	HOSE 1/4" X 152"
27	34026	1	HOSE 1/4" X 182"
28	33397	1	HOSE 1/4" X 55"
29	34023	1	HOSE 1/2" X 22"
30	21629	2	CAPSCREW - 3/8" X 3/4"
31	21631	1	CAPSCREW - 3/8" X 1 1/4"
32	21988	3	LOCKWASHER - 3/8"
33	21625	3	HEX NUT - 3/8"
34	21580	4	CAPSCREW - 5/16" X 1"
35	22015	8	FLATWASHER - 5/16"
36	21987	6	LOCKWASHER - 5/16"
37	21575	2	HEX NUT - 5/16"
38	21581	2	CAPSCREW - 5/16" X 1 1/2"
40	32807	10	ADAPTER 5/8"
42 43	34015 27724	3 3	CAPSCREW 12MM X 25MM LOCKWASHER 12MM
43 44	6T2625	3 1	LOCKWASHER 12MM
44 45	24881	2	LOCKWASHER 16MM
40	∠ 4 00 I	۷	LUCKWASHER ZUWIWI

NOTE:

1. Item 8 is a Tiger custom part to obtain proper operation of the lift valve.

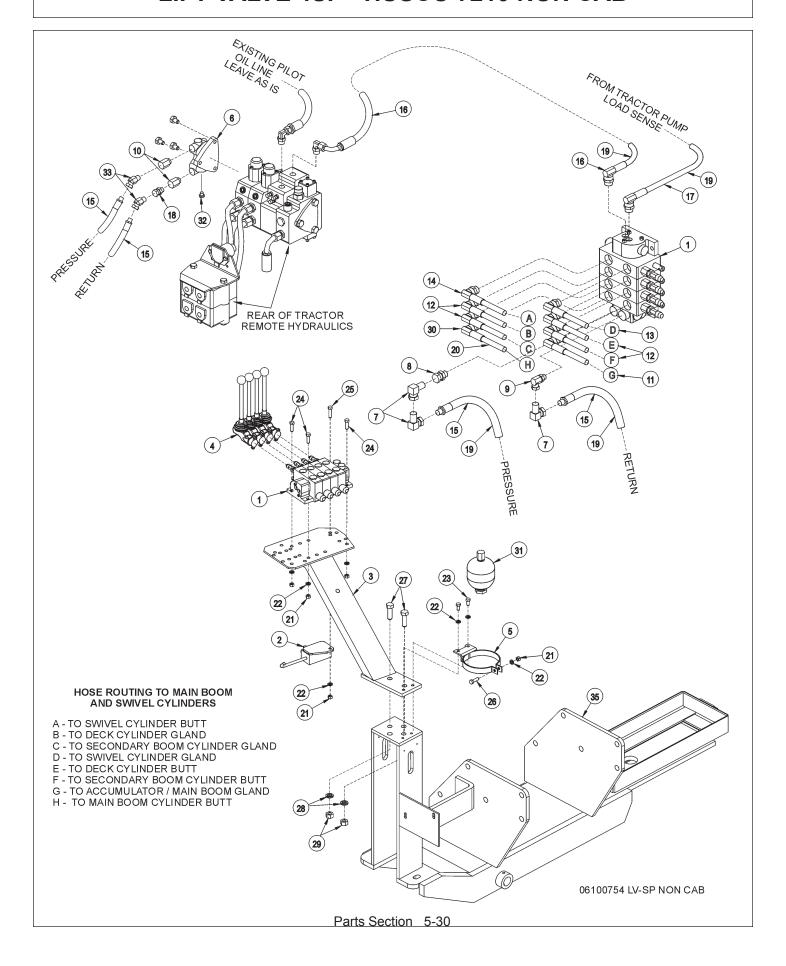
LIFT VALVE 4SP - HUSCO 7210 CAB



LIFT VALVE 4SP - HUSCO 7210 CAB

ITEM	PARTNO.	QTY.	DESCRIPTION
1	31041	1	VALVE
2	6T1251	4	CABLE CONTROL BOX
3	31356	4	CABLE CONTROL
4	30750A	1	CABLE CONTROL BRACKET
5	27847	1	DOUBLE SWITCH BOX
6	28856C	1	VALVE MOUNTING PLATE
7	6T4325	1	CABLE MOUNTING ANGLE
8	22148-1D	1	MOUNTING ANGLE
9	22148-2D	1	MOUNTING ANGLE
10	27082B	3	SPACER
11	6T4411	4	CABLE CONTROL CLEVIS
12	6T3017	4	ROLL PIN
13	6T3200	1	SPLIT HOSE
14	TB3440	8"	TRIMLOCK
15	30482	2	HOSE 1/4" X 140"
16	28983	4	HOSE 1/4" X 120"
17	30259	2	HOSE 1/4" X 102"
18	6T1413	2	HOSE 1/2" X 60"
19	31978	1	HOSE 3/8" X 78"
20	31977	1	HOSE 3/8" X 28"
21	31171	1	PLUG
22	TB1095	2	SWIVEL
23	TB1094	1	SWIVEL
24	27145	3	SWIVEL
25	21635	6 4	CAPSCREW 3/8" X 2 1/4" CAPSCREW 3/8" X 1 1/2"
26 27	21631 21630	2	CAPSCREW 3/8 X 1 1/2 CAPSCREW 3/8" X 1"
27 28	21546	1	CAPSCREW 1/4" X 7"
29	23865B	1	CABLE CONTROL MOUNTING STAND
30	22016	5	FLATWASHER 3/8"
31	21988	12	LOCKWASHER 3/8"
32	21625	12	HEX NUT 3/8"
33	21986	7	LOCKWASHER 1/4"
34	21500	8	HEX NUT 1/4"NF
35	21547	2	CAPSCREW 1/4" X 8"
36	21525	3	HEX NUT 1/4"
37	AL77030	1	TRACTOR VALVE END CAP
38	32405	1	PIPE PLUG 12MM
39	30548	2	ADAPTER 22MM
40	6T4240	1	SWIVEL 1/2"
41	27145	2	SWIVEL 1/2"

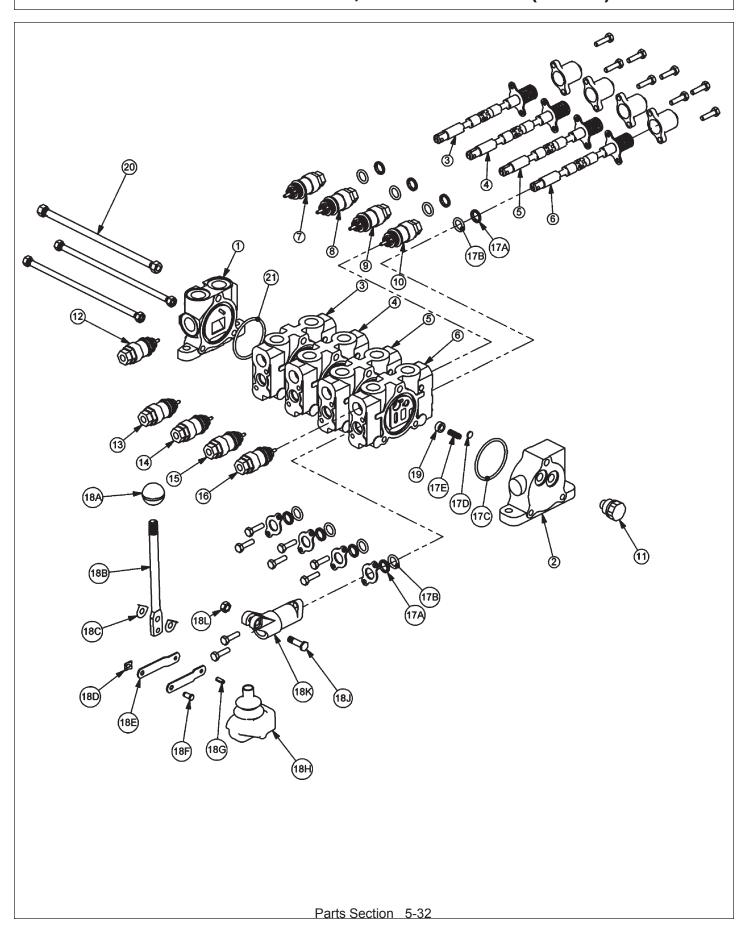
LIFT VALVE 4SP - HUSCO 7210 NON CAB



LIFT VALVE 4SP - HUSCO 7210 NON CAB

ITEM	PARTNO.	QTY.	DESCRIPTION
1	31041	1	VALVE
2	6T3905N	1	SINGLE SWITCH BOX WITH MTG BRACKET
3	32093	1	VALVE STAND
4	TB1017L	4	LEVER ASSEMBLY
5	23888	1	ACCUMULATOR BRACKET
6	AL77030	1	TRACTOR VALVE END CAP
7	27145	3	SWIVEL
8	TB1094	1	SWIVEL
9	TB1095	1	SWIVEL
10	30548	2	ADAPTER 22MM
11	28896	1	HOSE 1/4" x 46"
12	28935	4	HOSE 1/4" x 92"
13	28860	1	HOSE 1/4" x 77"
14	33663	1	HOSE 1/4" x 122"
15	31016	2	HOSE 1/2" X 134"
16	33344	1	HOSE 3/8" x 138"
17	33345	1	HOSE 3/8" x 132"
18	6T4240	1	SWIVEL 1/2"
19	6T3198	8	HOSE COVER - CLEAR
20	27979	1	HOSE COVER
21	21625	5	HEX NUT 3/8"
22	21988	7	LOCKWASHER 3/8"
23	21629	2	CAPSCREW 3/8" X 3/4"
24	21631	3	CAPSCREW 3/8" X 1 1/4"
25	21632	1	CAPSCREW 3/8" X 1 1/2"
26	21633	1	CAPSCREW 3/8" X 1 3/4"
27	21783	2	CAPSCREW 5/8" X 2"
28	21992	2	LOCKWASHER - 5/8"
29	21775	2	HEX NUT 5/8"
30	30029	1	HOSE 1/4" x 56"
31	24300	1	ACCUMULATOR
32	32405	1	PIPE PLUG 12MM
33	27145	2	SWIVEL 1/2"
34	33342	1	STRAP (NOT SHOWN)
35	*	REF.	MAIN FRAME - REFER TO MAIN FRAME PARTS

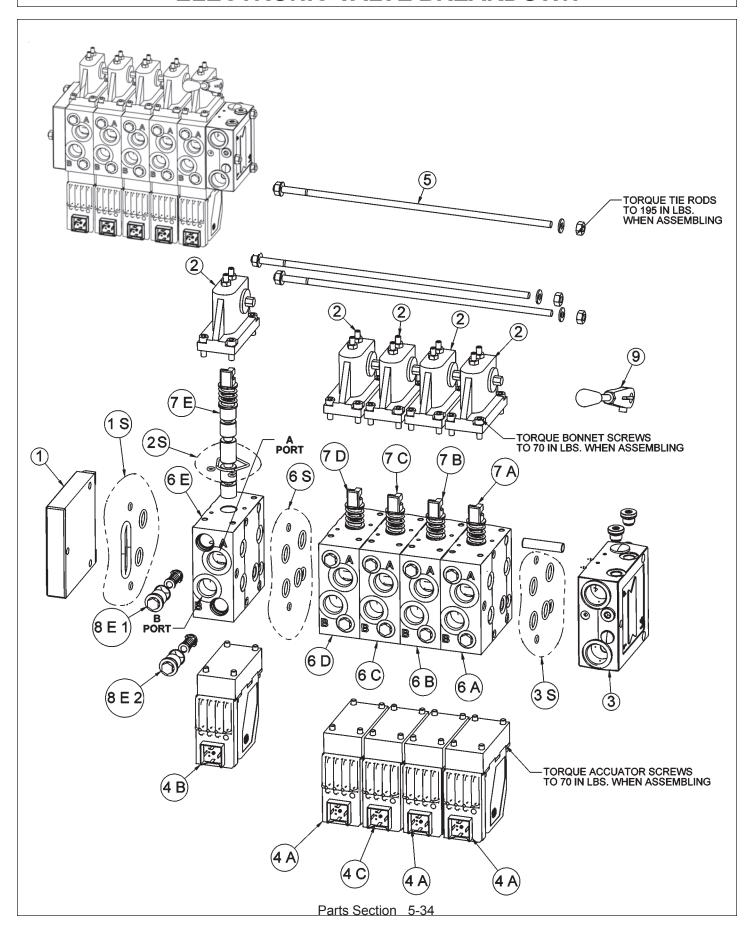
LIFT VALVE - 4SP, LOAD SENSE (31041)



LIFT VALVE - 4SP, LOAD SENSE (31041)

ITEM		PART NO.	QTY	DESCRIPTION
1		31595	1	INLET END COVER
2		31594	1	END COVER, LOAD SENSE
3		31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4		31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5		31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6		31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING,
				METERED)
7		06503067	1	#10 O-RING PLUG
8		TB1017K	1	RELIEF VALVE, 2150 PSI
9		TB1017J	1	RELIEF VALVE, 1800 PSI
10		TB1017H	1	RELIEF VALVE, 1750 PSI
11		06503068	1	RELIEF PLUG
12		6T4209	1	RELIEF PLUG
13		06502003	1	RELIEF VALVE, 2500 PSI
14		TB1017F	1	RELIEF VALVE, 1500 PSI
15		TB1017F	1	RELIEF VALVE, 1500 PSI
16		TB1017H	1	RELIEF VALVE, 1750 PSI
			·	
17		31593	4	VALVE SEAL KIT (FOR ONE SECTION)
	17A		2	WIPER
	17B		2	O-RING SMALL
	17C		1	O-RING LARGE
	17D		1	SHUTTLE DISC
	17E		1	SPRING
			·	
18		TB1017L	4	LEVER KIT (FOR ONE SECTION)
	18A		1	LEVER KNOB
	18B		1	LEVER
	18C		2	LEVER WASHER
	18D		1	LEVER CLIP
	18E		2	LINKAGE
	18F		1	LEVER PIN
	18G		1	ROLL PIN
	18H		1	LEVER BOOT
	18J		1	LEVERBOLT
	18K		1	LEVER DUST COVER
	18L		1	LEVER NUT
	.0L		'	LEVELVITO
19		31603	4	COMPENSATOR
20		TB1017U	1	TIE ROD KIT
21		24214	1	O-RING, LARGE
۷۱		474 IT	1	O-MINO, LAINOL

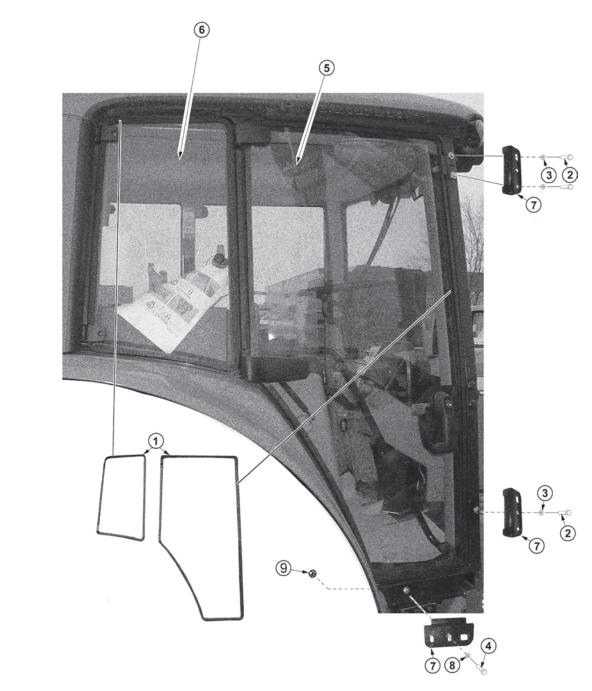
ELECTRONIC VALVE BREAKDOWN



ELECTRONIC VALVE BREAKDOWN

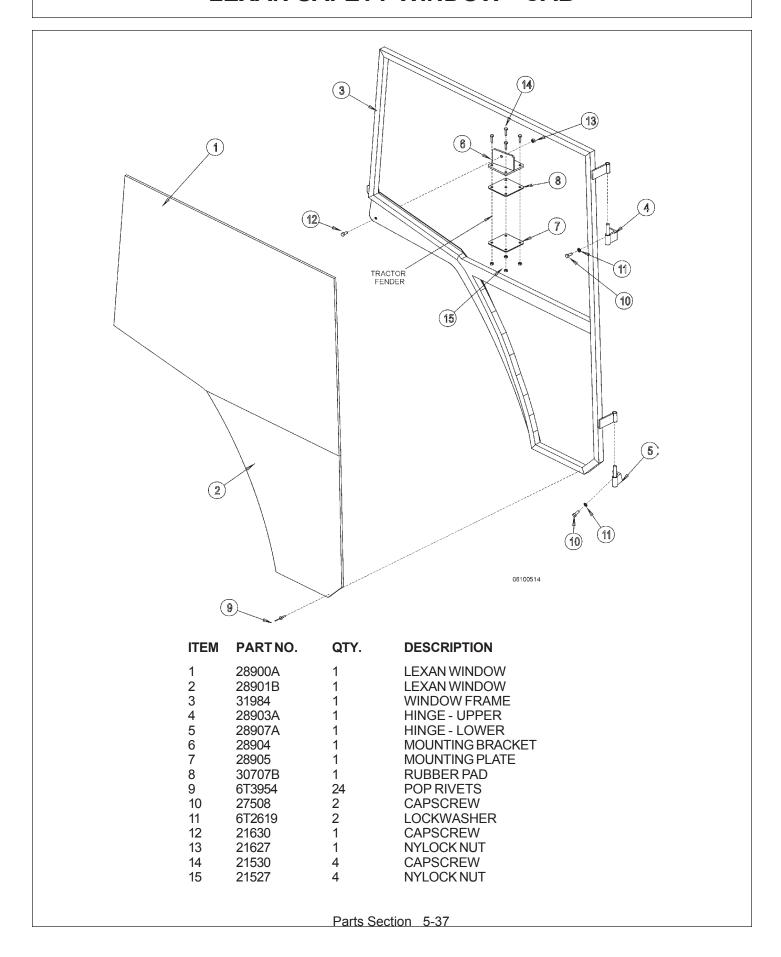
ITEM	PART NO.	QTY.	DESCRIPTION
	33291		VLV,5SP,32PVG
1 1S 2 2S 2A 2B 2B 2B 2B 2B 2B 3 3S 4 4S 4A 4A 4A 4B 5 6 6S 6A 6B 6C 6D 6E 7 7A 7B 7C 7D 7E 8 8A1 8A2 8B1 8B2 8C1 8C2 8D1 8D2	06502074 06505013 * 06505042 33459 42197 42197 42197 42197 34308 06505013 * 34030 4243906 4243906 4242206 4243906 42200 1 42202 * 06505013 42698 06502076 42698 06502077 * 42697 42697 4242106 06502073 42201 * 42650 06502069 42650 42295 42295 42295	1	END PLATE END PLATE END PLATE SEAL KIT BONNET BONNET SEAL KIT MAIN BOOM BONNET SECONDARY BOOM BONNET DECK ROLL BONNET DECK SHIELD BONNET DECK SHIELD BONNET INLET SECTION INLET SECTION SEAL KIT ELECTRONIC ACCUATOR ELECTRONIC ACCUATOR SECONDARY BOOM ELECTRONICACCUATOR DECK ROLLELECTRONIC ACCUATOR BOOM SWIVELELECTRONIC ACCUATOR BOOM SWIVELELECTRONIC ACCUATOR DECK SHIELD ELECTRONICACCUATOR TIE-BOLT KIT SECTION SECTION SEAL KIT MAIN BOOM SECTION SECTION SECTION SECTION SEAL KIT MAIN BOOM SECTION DECK ROLL SECTION SHIELD SECTION SPOOL MAIN BOOM SPOOL DECK ROLL BOOM SPOOL DECK ROLL BOOM SPOOL BOOM SWIVEL SPOOL DECK ROLL BOOM SPOOL BOOM SWIVEL SPOOL DECK SHIELD SPOOL ANTI CAV/SHOCK RELIEF MAIN BOOMA PORT RELIEF SEC BOOMA PORT RELIEF SEC BOOM B PORT RELIEF SEC BOOM SWIVELA PORT RELIEF DECK ROLLA PORT RELIEF
8D2 8E1 8E2 9	42295 06502069 06502069 33459	1 1 1 1	BOOM SWIVEL B PORT RELIEF DECK SHIELDA PORT RELIEF DECK SHIELD B PORT RELIEF HANDLE

POLYCARBONATE SAFETY WINDOW

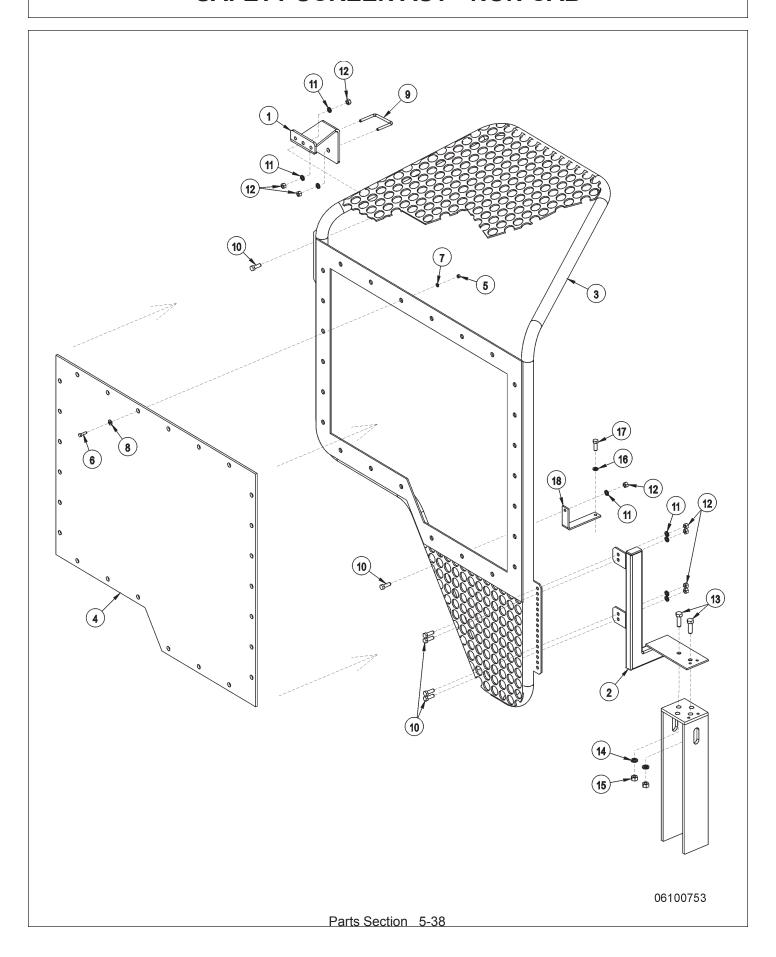


ITEM	PARTNO.	QTY.	DESCRIPTION
1	31965	22 FT	TRIM SEAL
2	27508	3	CAPSCREW, 8MM X 20MM
3	22015	3	FLATWASHER, 5/16"
4	21581	1	CAPSCREW
5	06490005	1	POLYCARB, FRMD, DOOR
6	06490006	1	POLYCARB, FRMD, REAR
7	06520040	3	BRACKET, RETAIN
8	6T2619	1	LOCKWASHER
9	21577	1	NYLOCK, NUT

LEXAN SAFETY WINDOW - CAB



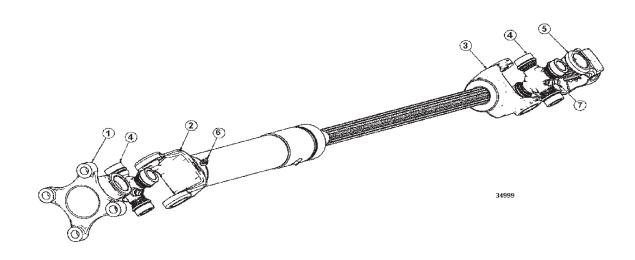
SAFETY SCREEN ASY - NON CAB



SAFETY SCREEN ASY - NON CAB

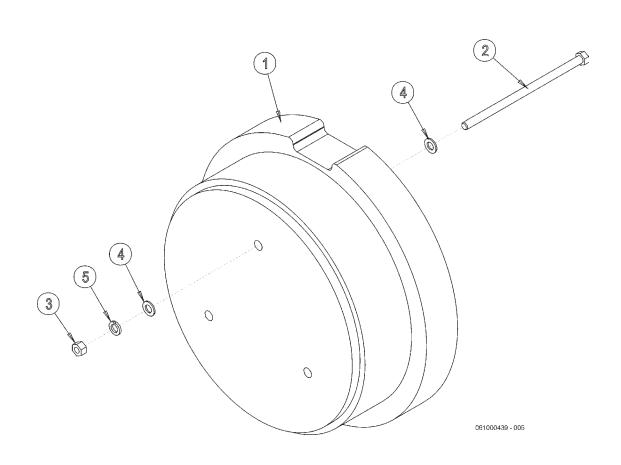
ITEM	PART NO.	QTY.	DESCRIPTION
1	33334	1	MOUNTING PLATE
2	32729	1	FRONT BRACKET
	32646	AVAIL.	SAFETY SCREEN ASSY.
3	32637	1	SCREEN
4	32638	1	WINDOW
5	21575	25	HEXNUT
6	21581	25	CAPSCREW
7	21987	25	LOCKWASHER
8	22015	25	FLATWASHER
9	28249	1	U-BOLT
10	21731	6	CAPSCREW 1/2" X 1 1/2"
11	21990	8	LOCKWASHER 1/2"
12	21725	8	HEX NUT 1/2"
13	21783	2	CAPSCREW 5/8" X 2"
14	21992	2	LOCKWASHER 5/8"
15	21775	2	HEX NUT 5/8"
16	6T2625	1	LOCKWASHER 16MM
17	22423	1	CAPSCREW 16MM X 50MM
18	33341	1	BAR MOUNTING

PUMP DRIVESHAFT ASSEMBLY



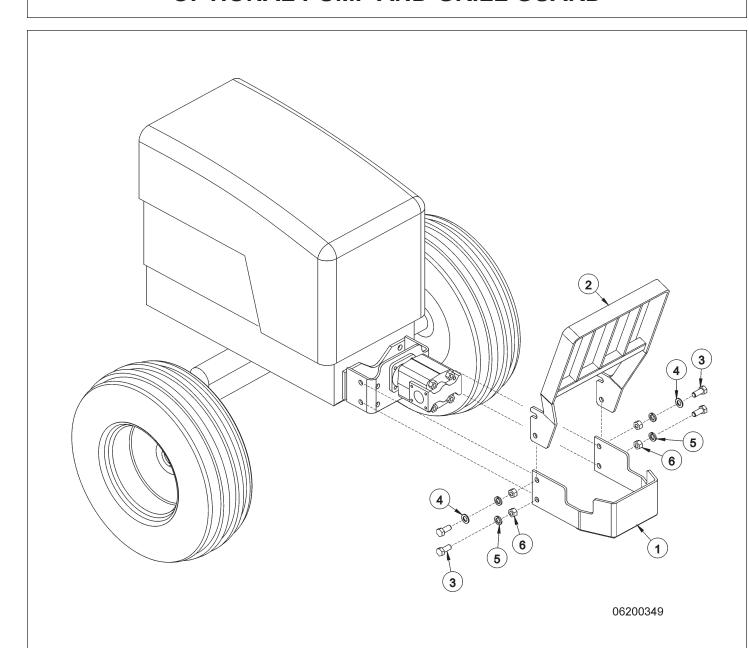
ITEM	PART NO.	QTY.	DESCRIPTION
*	34999	AVA	DRIVESHAFT,U-JOINT
1	06505004	1	YOKE PULLEY, 34999
2	06505005	1	SLEEVE, 34999
3	06505006	1	SHAFT, 34999
4	06505007	2	CROSS, 34999
5	06505008	1	YOKE DRIVE, 34999
6	6T3203	1	GREASE ZERK, 1/4 X 45
7	6T3207	3	GREASE ZERK, 1/4 X STR

BOOM MOWER WHEEL WEIGHT KIT



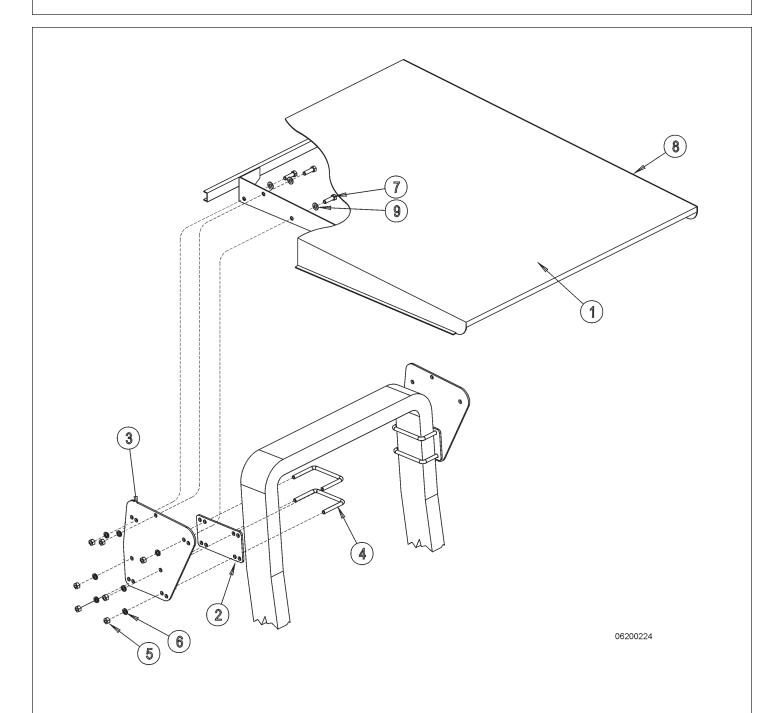
ITEM	PARTNO.	QTY.	DESCRIPTION
PB061	00439		
1	31819	1	WHEEL WEIGHT - DRILL FOR EXTRA 500#
2	31455	3	CAPSCREW - 3/4" X 17"
3	21825	3	HEX NUT - 3/4"
4	22021	6	FLAT WASHER - 3/4"
5	21993	3	LOCKWASHER - 3/4"
PB061	00005		
1	TB3226	1	WHEEL WEIGHT 1300#
2	31455	3	CAPSCREW - 3/4" X 17"
3	21825	3	HEX NUT - 3/4"
4	22021	6	FLAT WASHER - 3/4"
5	21993	3	LOCKWASHER - 3/4"

OPTIONAL PUMP AND GRILL GUARD



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

NON-CAB STEEL CANOPY - OPTIONAL



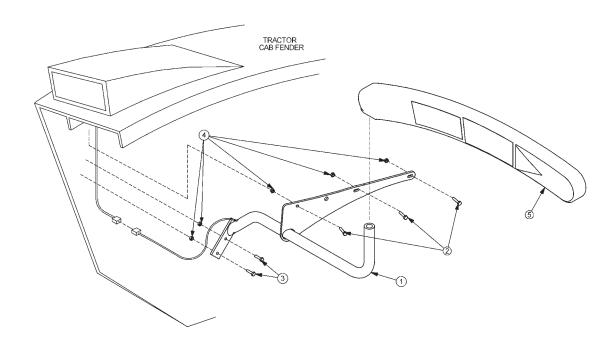
1 6T6902A 1 CANOPY 2 32730 2 CANOPY BRACKET 3 32727 2 CANOPY BRACKET 4 28249 4 U-BOLT 5 21725 14 HEX NUT - 1/2" 6 21990 14 LOCKWASHER - 1/2"	TY. DESCRIPTION	QTY.	PART NO.	ITEM
8 28053 4.8' TRIM-LOCK	CANOPY BRACKET CANOPY BRACKET U-BOLT HEX NUT - 1/2" LOCKWASHER - 1/2" CAPSCREW - 1/2" X 1 1/4"	2 4 14 14 6 4.8'	32730 32727 28249 21725 21990 21730 28053	4 5 6 7

Parts Section 5-43

SAFETY LIGHT ASSEMBLY

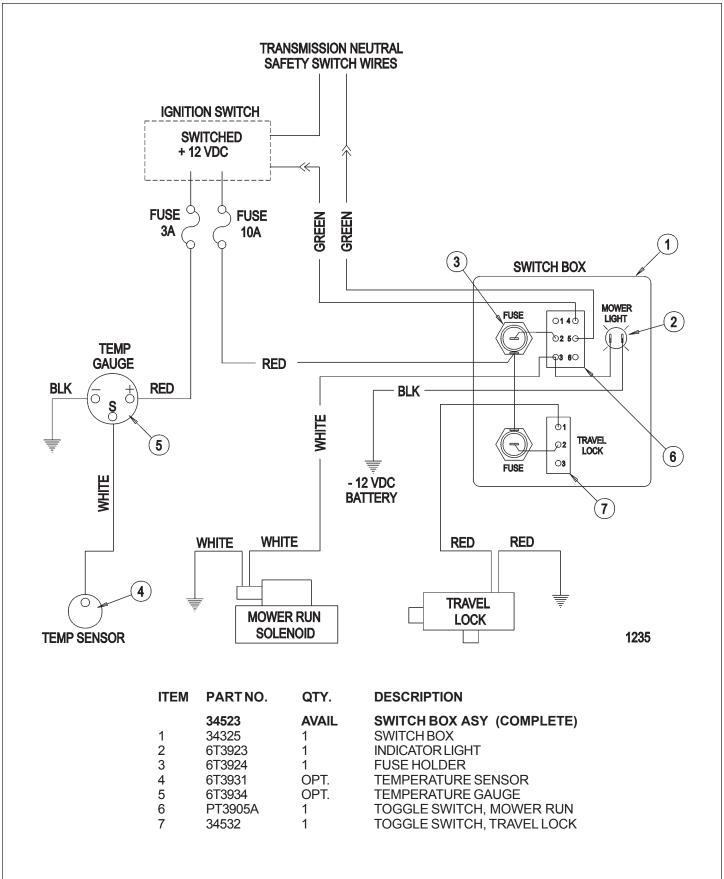
SAFETY LIGHT INSTALLATION

- 1. Remove ground wire (-) from the battery
- 2. Remove right rear tire
- 3. Remove the bottom cover from the tail light. Locate the wire connecor on the tractor that has a brown & green wire
- 4. Remove panel from right rear of outside of cab under the window
- 5. Install light bar to mounting bracket
 - (Note: Wiring should be routed through the bracket & come out the hole on the top of the tube)
- 6. Install the light bar and bracket assembly in wheel well securing the three 1-1/4" bolts to the fender
- 7. Use the bracket as a guide to drill 2, 5/16" holes in the wheel well and install 2 remaining 1" capscrews and nylock nuts
- 8. Install the female 2-wire connector to the wires coming from the light making sure that the green wires are common
- Reconnect the battery ground wire (-) and test for proper operation (Note: The marker light should flash with hazard lights and the right turn signal. The light should burn steady with hazards and the left turn signal on.)
- 10. Reinstall all covers that were previously removed
- 11. Reinstall right side tire

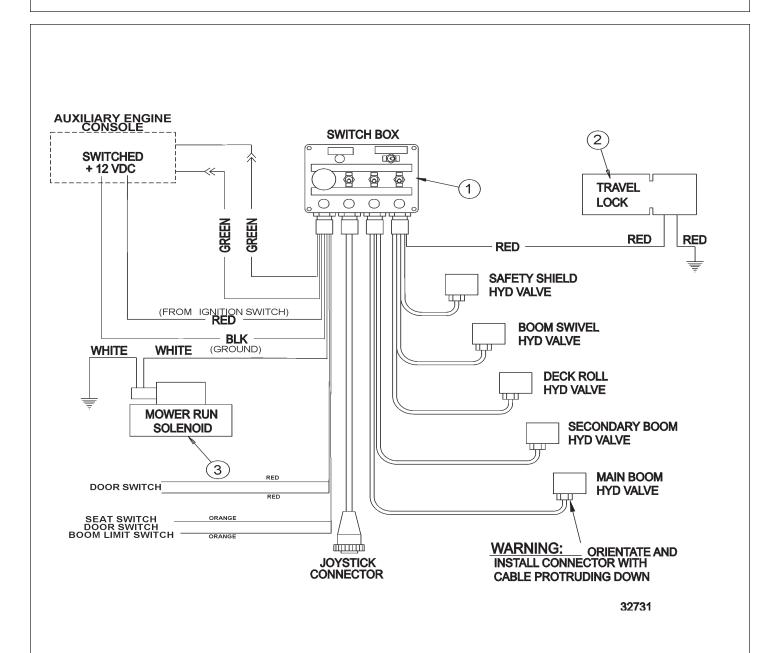


ITEM	PARTNO.	QTY.	DESCRIPTION
1	34894	1	BRACKET, MOUNTING, JD72-7510, LIGHTING
2	21531	3	CAPSCREW, 1/4 x 1-1/4, NC
3	21530	2	CAPSCREW, 1/4 x 1, NC
4	21527	5	NYLOCK NUT, 1/4, NC
5	34859	1	MARKER LIGHT ASSEMBLY
*	6T1824	2	ZIP-TIE, 8" (NOT SHOWN)

SOLENOID VALVE SWITCH AND WIRING

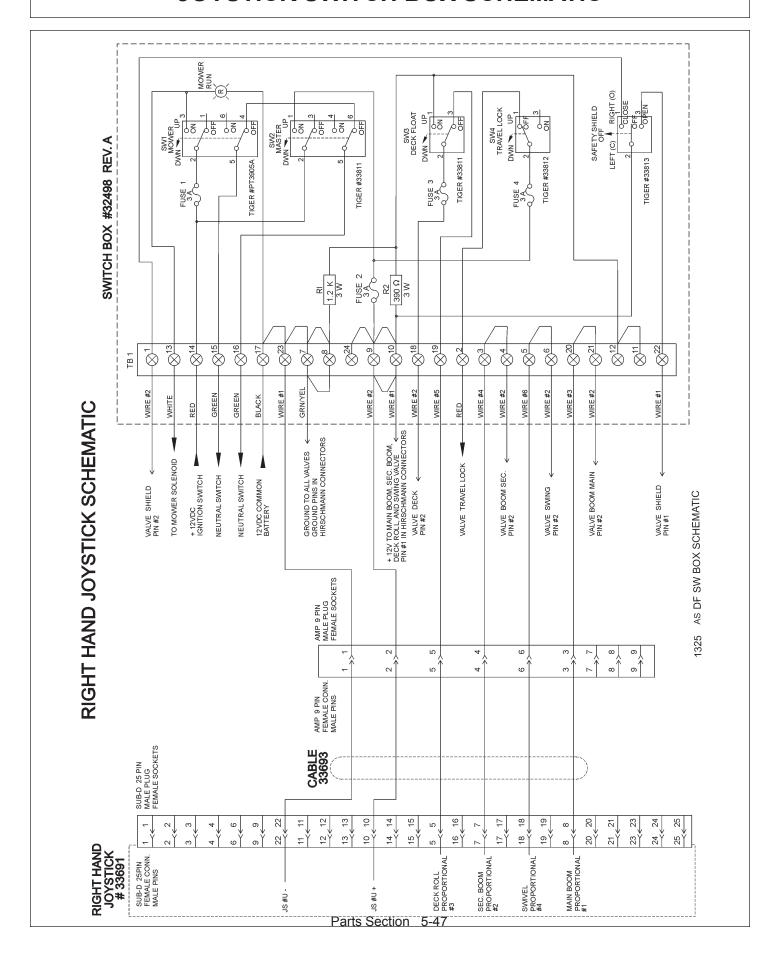


JOYSTICK SWITCH BOX AND WIRING

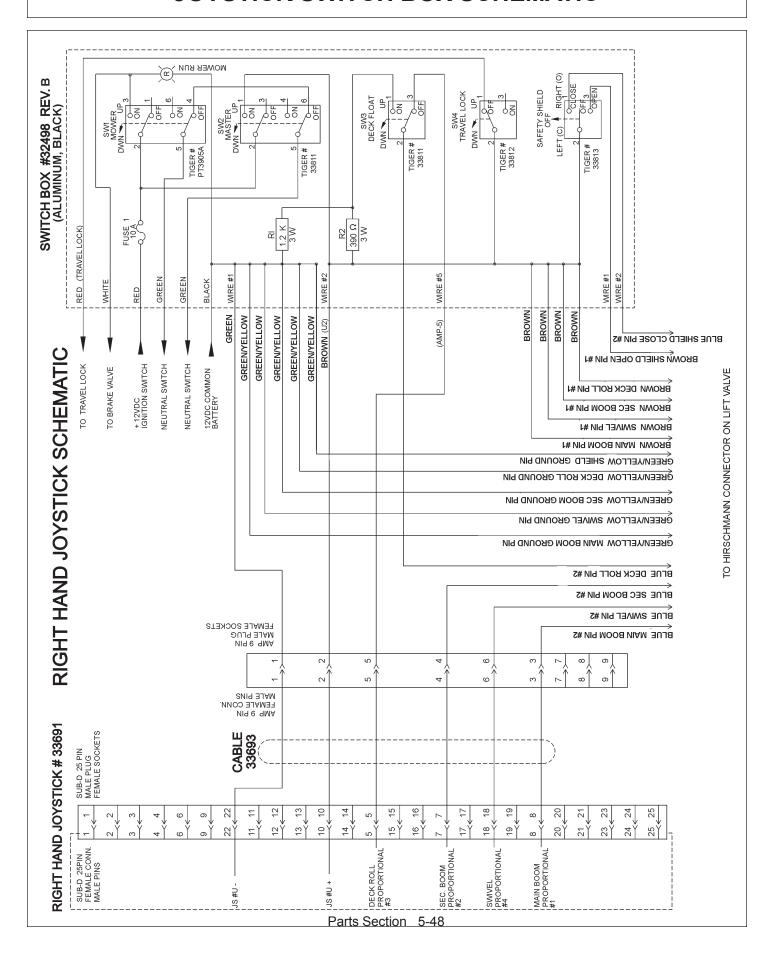


ITEM	PARTNO.	QTY.	DESCRIPTION
1	6T3934 6T3931	OPT. OPT	OIL TEMPERATURE GUAGE TEMERATURE SENSOR
3	REF.	*	SWITCH BOX - REFERTO LIFT VALVE
4	REF.	*	TRAVEL LOCK - REFERTO HYDRAULICS
5	REF.	*	SOLENOID - REFER TO MAIN FRAME

JOYSTICK SWITCH BOX SCHEMATIC



JOYSTICK SWITCH BOX SCHEMATIC



TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

Turn off electronic master switch (preventing electronic actuator on valve from attempting to hold spool in neutral position). With tractor engine running, operate the valve section with the manual handle. If function operates normally, continue with electronic inspection. If function does not operate normally, continue with hydraulic inspection.

Electronic inspection.

Connect a voltmeter to the cable connector of the valve section that is not operating. This will allow you to measure supply and signal voltage when the joystick is operated.

Main, Secondary, and Swivel Valves – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 75% of supply voltage in B direction, down to 25% of supply voltage in A direction. Signal voltage should change smoothly with lever movement.

Pin #1 – Supply Voltage

Pin #2 – Signal Voltage

Pin #and – around

Deck Roll Valve or Float Valve – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 65% of supply voltage in B direction, down to 35% of supply voltage in A direction. Signal voltage should change smoothly with lever movement. Signal voltage should be approximately 75% of supply voltage when float switch is operated.

Pin #1 – Supply Voltage

Pin #2 – Signal Voltage

Pin #gnd – ground

Shield Valve or On/Off Valve – Voltage on pin #1 should be equal to supply voltage when switch is operated in A direction. Voltage on pin #2 should be equal to supply voltage when switch is operated in B direction.

Pin #1 – Signal Voltage

Pin #2 – Signal Voltage

Pin #gnd – ground

If none of the valve will operate with electrical signal, verify that there is oil pressure at the valve inlet. Electrical Valves must have pilot supply oil to move the spools.

Possible electronic problems.

Open circuit (broken wire, bad connection or loose connection in switch box).

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

Parts Section 5-49

TROUBLESHOOTING

Hydraulic inspection.

Install 3 pressure gauges, on the valve inlet (use M port, or tee into hose supplying oil from the pump to the inlet), on the workport that is not operating, and on the LS port.

With the spools in Neutral

Gear pump – P should be approximately 200 psi, LS = 0, workport – pressure on cylinder or function.

LS pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Gear pump – P should be approximately 200 psi higher than LS, LS should equal workport, workport – pressure on cylinder or function.

LS pump – P should be LS + standby, LS should equal workport, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport, workport – pressure on cylinder or function.

Operate one spool, measure pressures with function at end of travel or stop

Gear pump – P should equal valve relief setting or workport shock valve setting. LS should equal workport. Workport should equal relief setting or workport shock valve setting.

LS pump – P should equal valve relief setting, pump max pressure setting, or workport shock valve setting. LS should equal workport. Workport should equal relief setting, pump max pressure setting, or workport shock valve setting.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport. Workport should equal pump standby pressure or workport shock valve setting.

Operate more than one spool.

Gear pump – P should approximately 200 psi higher than LS. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

LS pump – P should be LS + standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

Pressure Comp pump. P should equal pump standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

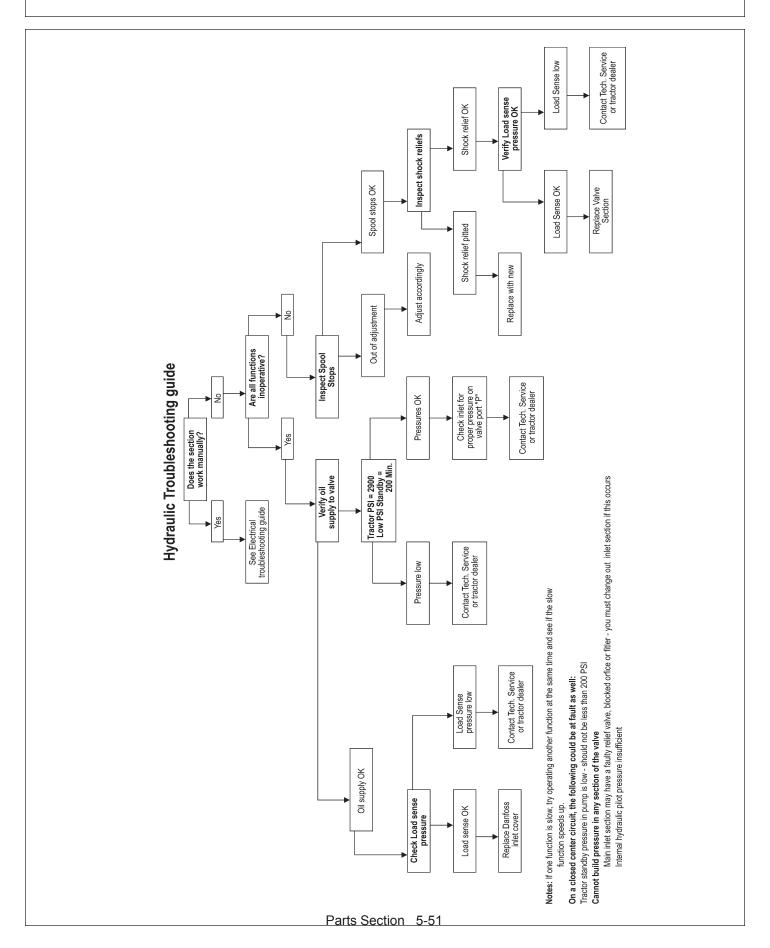
Possible hydraulic problems.

Cylinder leak.

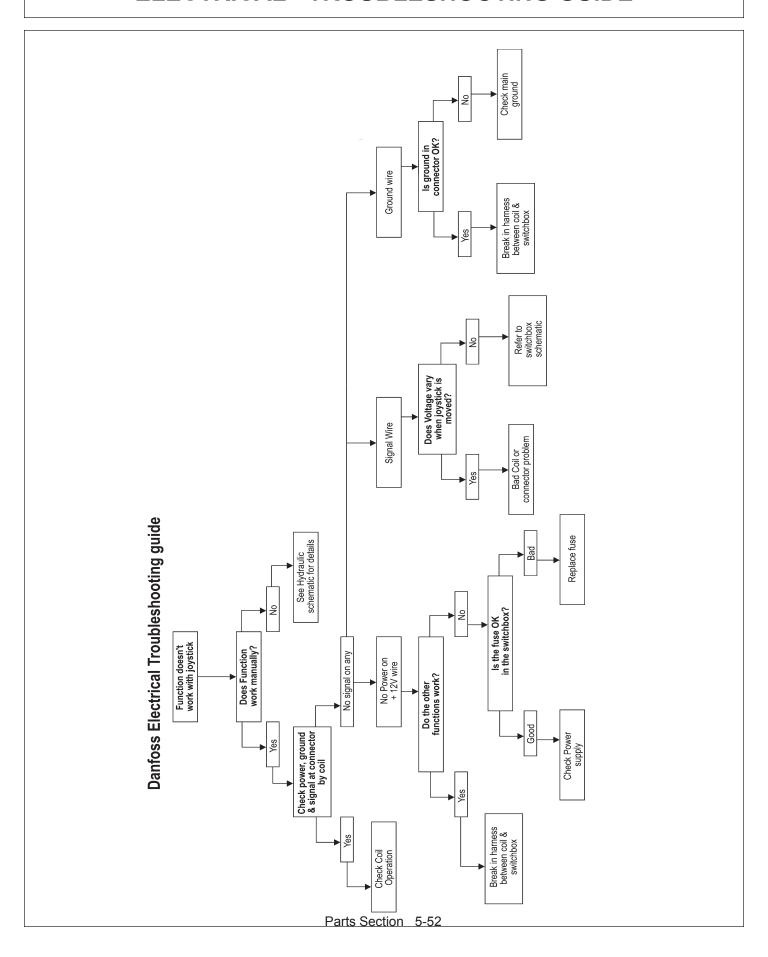
LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

HYDRAULIC - TROUBLESHOOTING GUIDE



ELECTRICAL - TROUBLESHOOTING GUIDE



BENGAL BOOM MOWER

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.

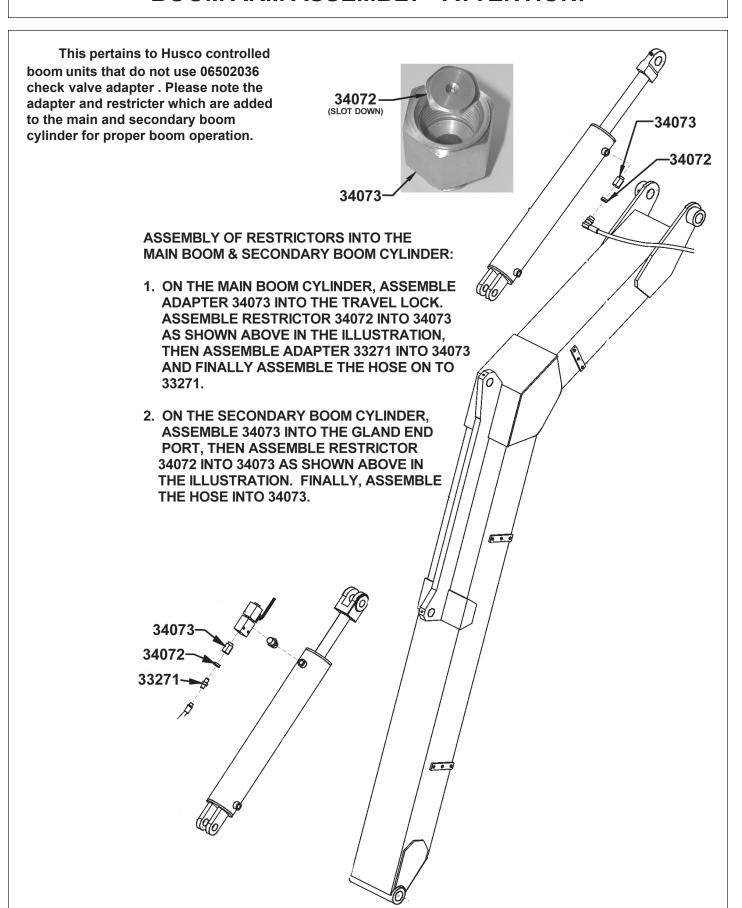


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

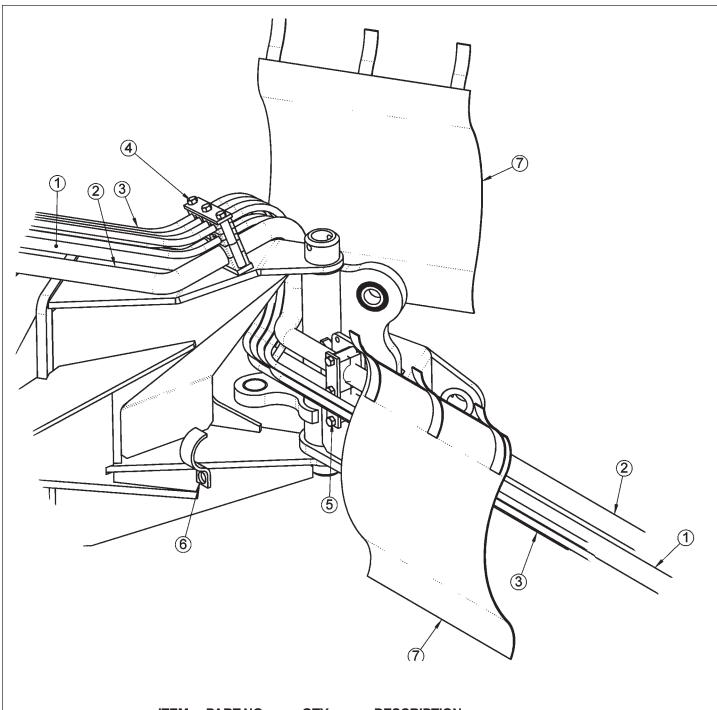
Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

BOOM ARM ASSEMBLY - ATTENTION!



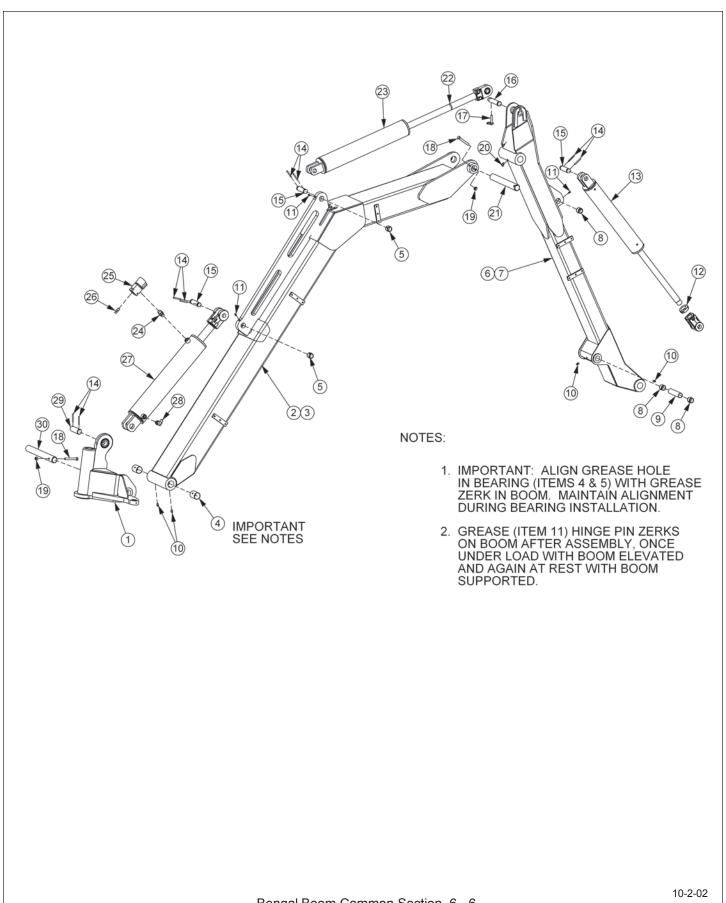
Bengal Boom Common Section 6 - 4

BOOM HOSES ROUTING - OPEN & 3 POINT STOW BOOMS



ITEM	PART NO.	QTY.	DESCRIPTION
1 2 3 4 5 6	- - - 06505085 35131 TB3012 06505021	1 1 6 1 1 1	1" HOSE TO MAIN BOOM LOWER TUBE 1" HOSE TO MAIN BOOM UPPER TUBE 1/4" HOSE TO MAIN BOOM CLAMP KIT CLAMP KIT CLAMP HOSE COVER"

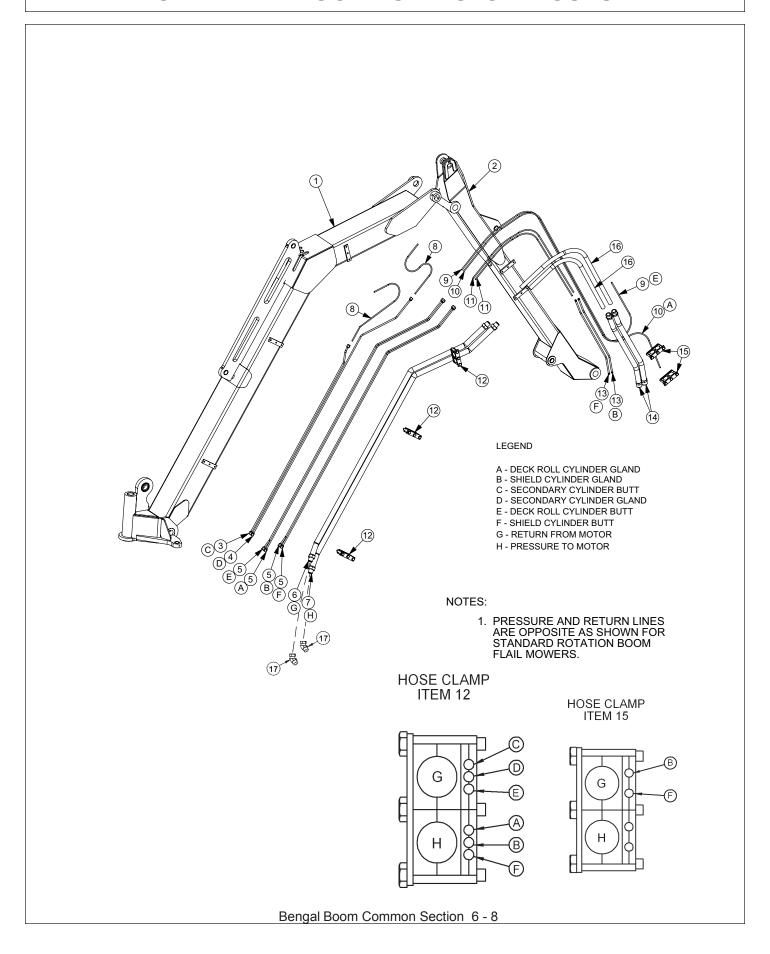
STANDARD BOOM ASSEMBLY - SIDE STOW



STANDARD BOOM ASSEMBLY - SIDE STOW

ITEM	PART NO.	QTY.	DESCRIPTION
1	*	REF	SWIVELASSY*REFER TO TRACTOR MOUNT KIT
2	24512	1	MAIN BOOM ARM ASSY
3	TB1002D	1	MAIN BOOM WLDMENT
4	32321	2	BUSHING, 1-1/2"ID x 2-1/2"
5	TB3010	2	BUSHING, 1"ID
6	24517	1	SECONDARY BOOM ARM ASSY
-	06700098	AVAIL.	SHORT SEC BOOM ARM ASSY (FOR 60" RTRY)
7	TB1001G	1	SECONDARY BOOM WLDMENT
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING, SPACER
10 11	6T3211 6T3207	4 3	GREASE ZERK, 1/8"
12	35312	3 1	GREASE ZERK,1/4 SET COLLAR
13	06501023	1	CYLINDER,3" x 18"
14	06537021	6	ROLL PIN,5mm
15	TB1033	3	PIN,1" x 4"
16	TB1035	1	PIN,1" x 4-11/16"
17	TF1143	1	PIN,LYNCH
18	21688	2	CAPSCREW,7/16" x 3-1/4",NC
19	21677	2	NYLOCK NUT,7/16",NC
20	6T3210	1	GREASE ZERK,1/8" x 90°
21	TB1025	i 1	PIN,1-1/2" x 12"
22	22076	1	SPACER,DECK LIFT CYL
23	06501024	i 1	CYLINDER,3-1/2" x 20"
24	31329	1	ADAPTER,1/20RB x 1/20RBADJ
25	06510050	1	TRAVEL LOCK, METRIPACK COIL
26	33271	1	ADAPTER,1/20RB x 1/20RBADJ
27	06501022	1	CYLINDER,4" x 20"
28	32810	1	ELBOW,1/2ORB x 3/8MJ90ADJ
29	06420100	1	PIN,1-1/4" x 3-5/8"
30	TB3013C	1	PIN,1-1/2" x 12-3/4"

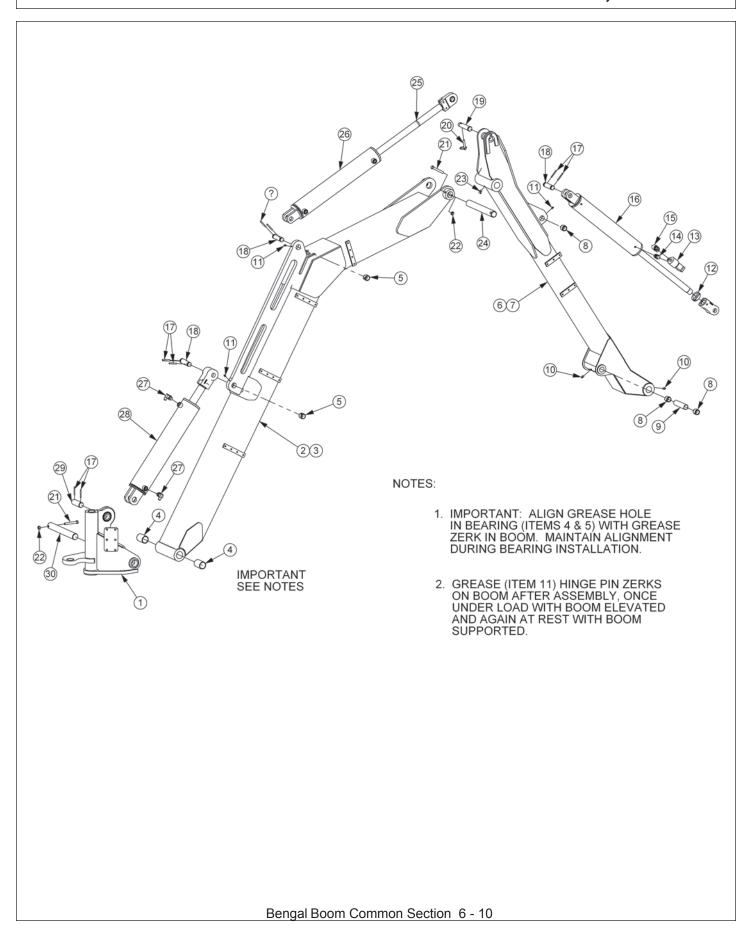
STANDARD BOOM - SIDE STOW HOSES



STANDARD BOOM - SIDE STOW HOSES

ITEM	PART NO.	QTY.	DESCRIPTION
1	*	REF	MAIN BOOM *REFER TO BOOM ARM ASSY
2	*	REF	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	TB2025	1	PRFRMD TUBE #304
4	TB2026	1	PRFRMD TUBE #305
5	TB2028	4	PRFRMD TUBE #307
6	24035A	1	PRFRMD TUBE, MAIN BOOM RETURN
7	24034A	1	PRFRMD TUBE, MAIN BOOM PRESSURE
8	34052	2	HOSE,1/4" x 20"
9	34078	1	HOSE,1/4" x 48"
10	34079	1	HOSE,1/4" x 68"
11	34104	2	HOSE,1/4" x 42"
12	33440	3	TUBE CLAMP, MAIN BOOM (ROTARY MOWERS)
	30111	*	TUBE CLAMP, MAIN BOOM (FLAIL MOWERS)
13	34102	2	TUBE,PRFRMD,SEC BOOM
14	2403306	2	TUBE,PRFRMD,SEC BOOM,HP
15	30111	2	TUBE CLAMP,SEC BOOM (ROTARY MOWERS)
	30112	*	TUBE CLAMP,SEC BOOM (FLAILMOWERS)
16	24488	2	HOSE,1" x 40"
17	24724	2	SWIVEL,1MJ x 1FJX45

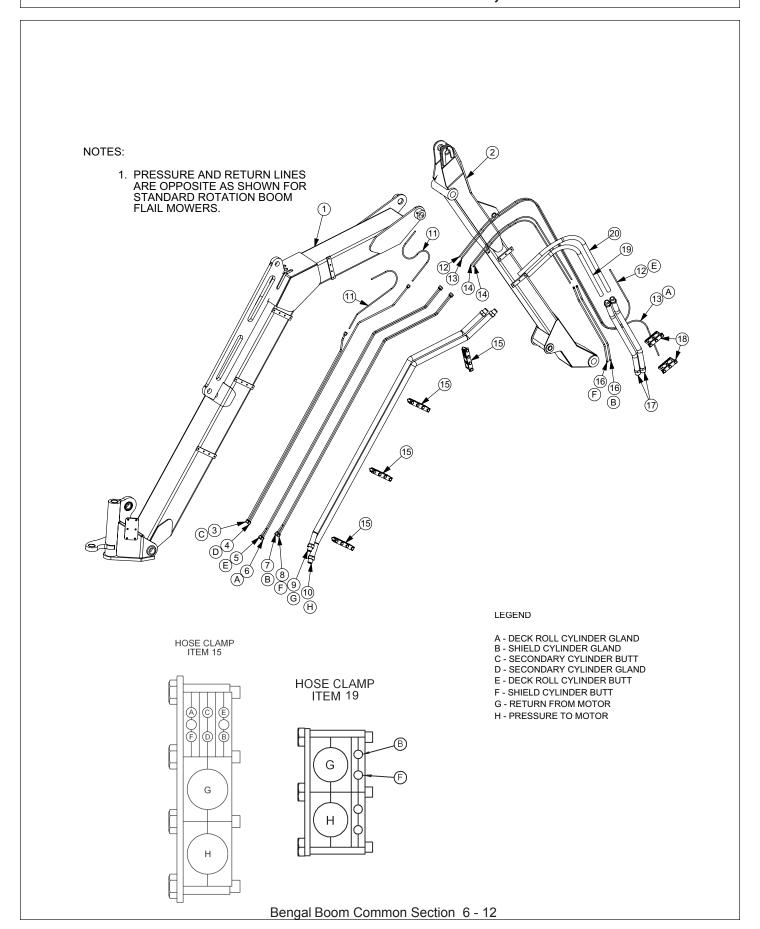
STANDARD BOOM ASSEMBLY - OPEN STOW, 3PS



STANDARD BOOM ASSEMBLY - OPEN STOW, 3PS

ITEM	PART NO.	QTY.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	*** 06700031 06310013 06520075 TB3010 24517 TB1001G TB3010 TB1035 6T3211 6T3207 35312 06510050 31329 34244 06501023 06537021 TB1033 TB1036 TF1143 21688 21677 6T3210 TB1025 22076 06501024 32810 06501022	QTY. REF 1 1 2 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1	SWIVELASSY *REFER TO TRACTOR MOUNT KIT MAIN BOOM ARM ASSY MAIN BOOM WLDMENT BUSHING, 1-1/2"ID x 2-1/2" BUSHING, 1"ID SECONDARY BOOM ARM ASSY SECONDARY BOOM WLDMENT BUSHING, 1"ID BUSHING, SPACER GREASE ZERK, 1/8" GREASE ZERK, 1/8" GREASE ZERK, 1/4 SET COLLAR TRAVEL LOCK, METRIPACK COIL ADAPTER, 1/2 ORB x 1/2 ORB ADJ ELBOW, 1/2 ORB x 1/2 FOR CYLINDER, 3" x 18" ROLL PIN, 5mm PIN, 1" x 4" PIN, 1" x 4-11/16" PIN, LYNCH CAPSCREW, 7/16" x 3-1/4", NC NYLOCK NUT, 7/16", NC GREASE ZERK, 1/8" x 90° PIN, 1-1/2" x 12" SPACER, DECK LIFT CYL CYLINDER, 3-1/2" x 20" ELBOW, 1/2 ORB x 3/8 MJ90 ADJ CYLINDER, 4" x 20"
29 30	06420100 06420022	1 1	PIN,1-1/4" x 3-5/8" PIN,1-1/2" x 12-3/4"

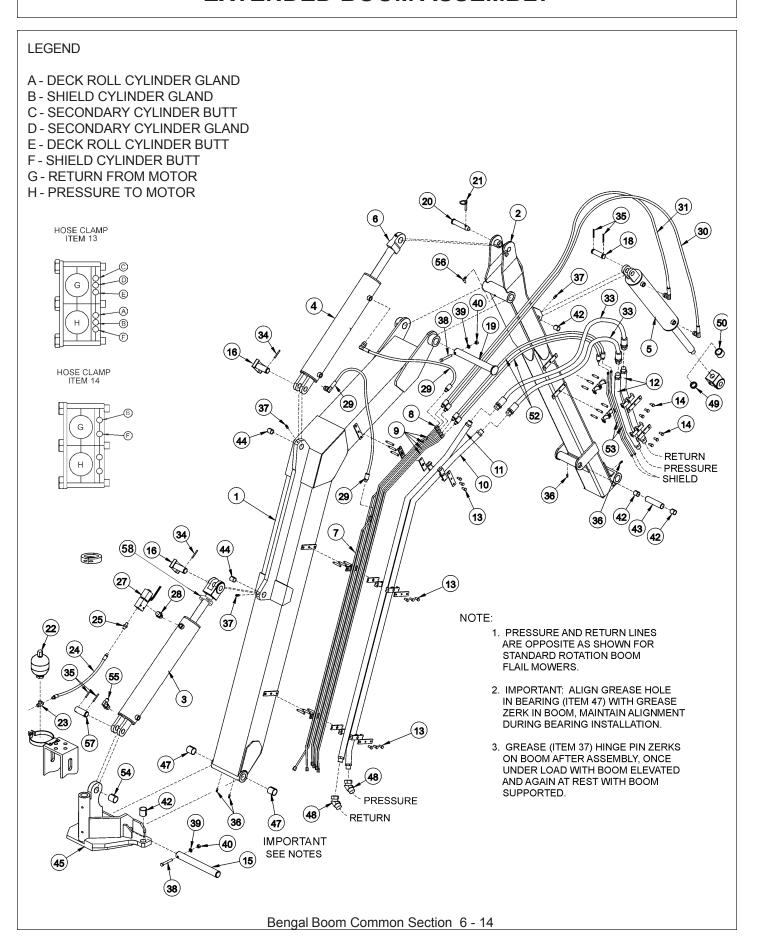
STANDARD BOOM - OPEN STOW, 3PS HOSES



STANDARD BOOM - OPEN STOW, 3PS HOSES

ITEM	PART NO.	QTY.	DESCRIPTION
1	*	REF	MAIN BOOM *REFER TO BOOM ARM ASSY
2	*	REF	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	06506017	1	PRFRMD,5,MAIN BOOM
4	06506016	1	PRFRMD,4,MAIN BOOM
5	06506019	1	PRFRMD,7,MIAN BOOM
6	06506014	1	PRFRMD,2,MAIN BOOM
7	06506018	1	PRFRMD,6,MAIN BOOM
8	06506013	1	PRFRMD,1,MAIN BOOM
9	06506021	1	PRFRMD,9,MAIN BOOM
10	06506022	1	PRFRMD,10,MAIN BOOM
11	34052	2	HOSE,1/4" x 20"
12	34078	1	HOSE,1/4" x 48"
13	34079	1	HOSE,1/4" x 68"
14	34104	2	HOSE,1/4" x 42"
15	06505019	4	CLAMP KIT,3 SECTION
16	34102	2	TUBE,PRFRMD,SEC BOOM
17	2403306	2	TUBE,PRFRMD,SEC BOOM,HP
18	30111	2	CLAMP KIT,2 SECTION
19	24488	1	HOSE,1" x 40"
20	06500254	1	HOSE,1" x 45"

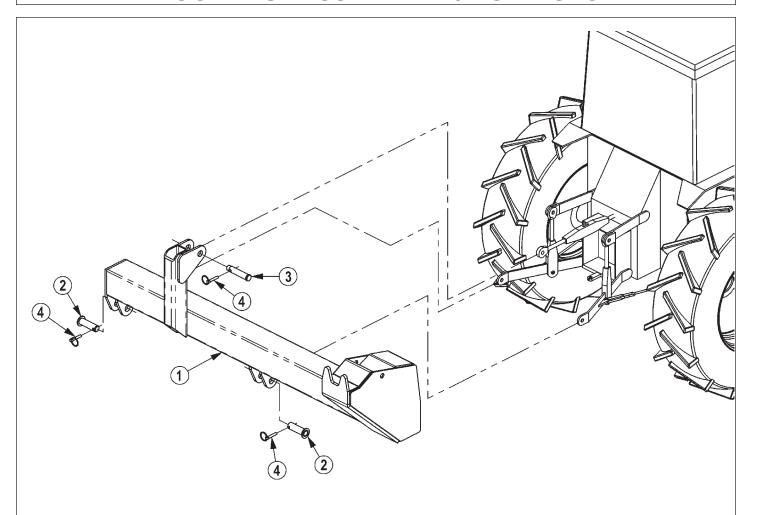
EXTENDED BOOM ASSEMBLY



EXTENDED BOOM ASSEMBLY

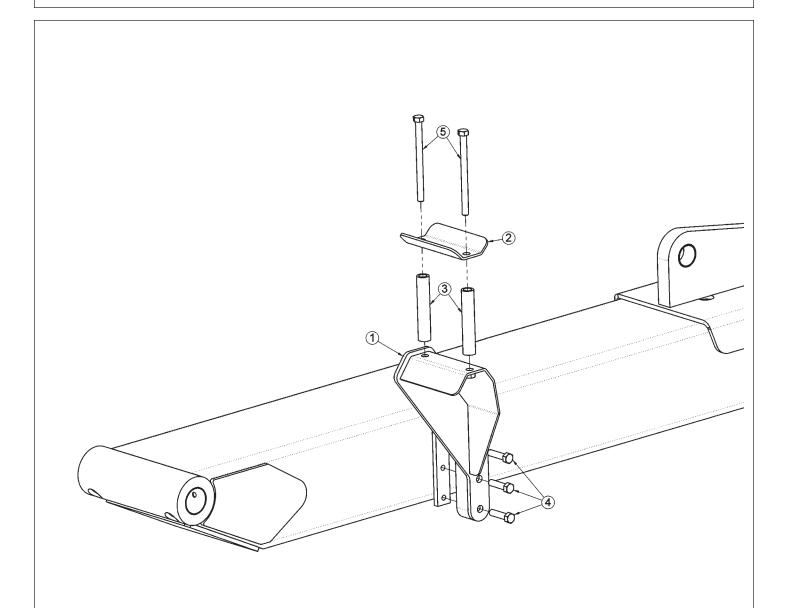
ITEM	DARTNO	OTV	DESCRIPTION			
ITEM	PART NO.	QTY.	DESCRIPTION			
1	31845 TB1080	1 1	MAIN BOOM WITH BUMPER FAD / BEARING BUMPER PAD (NOT SHOWN)			
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)			
2	30072C	1	SECONDARY BOOM, EXTENDED			
_	24517	AVAIL.	SECONDARY BOOM (FOR 60" ROTARY - SIDE STOW)			
3	06501020	1	CYLINDER 5" X 20" WELDED			
4 5	06501022 06501023	1 1	CYLINDER 4" X 20" WELDED CYLINDER 3" X 18" WELDED			
6	30172	1	CLEVIS W. SPHERICAL BEARING			
7	31234	1	PREFORMED TUBE #304			
8	31235	1	PREFORMED TUBE #305			
9 10	31233	4 1	PREFORMED TUBE #307 PREFORMED TUBE MAIN BOOM PRESSURE			
11	30167 30168	1	PREFORMED TUBE MAIN BOOM RETURN			
12	30169	2	PREFORMED TUBE			
13	33440	3	TUBE CLAMP, MAIN BOOM (SIDE STOW)			
	06505019	*	TUBE CLAMP, MAIN BOOM (OPEN STOW, 3PS)			
14	30111	2	TUBE CLAMP, SECONDARY BOOM			
15 16	TB3013C TB1045B	1 2	PIN, SWIVEL PIN, CYLINDER/HEAD			
18	TB1043B	1	PIN, 1" X 4" CYLINDER			
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT			
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER			
21	TF1143	1	LYNCH PIN, CYLINDER			
22 23	24300	1 1	ACCUMULATOR TEE 3/8" X 3/8" X 1/2"			
23 24	34020 33397	1	HOSE - 1/4" X 55"			
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR			
27	31328	1	TRAVELLOCK			
28	31329	1	ADAPTER - 1/2OR X 1/2ADJ OR			
29	34052	2 1	HOSE - 1/4" X 20"			
30 31	34050 34051	1	HOSE - 1/4 X 83" HOSE - 1/4" X 63"			
33	24488	2	HOSE 1" X 40"			
34	6T3014	1	ROLL PIN 1/4" X 2"			
35	06537021	4	ROLL PIN			
36	6T3211	4	GREASE ZERK 1/8"			
37	6T3207	3	GREASE ZERK 1/4" CAPSCREW 7/16" X 3 1/4"			
38 39	21688 21989	2 2	LOCKWASHER 7/16"			
40	21675	2	HEX NUT 7/16"			
42	TB3010	4	BUSHING			
43	TB1035	1	SPACER			
44	TB1044 *	2	BUSHING 1 1/4"			
45 46	6T3199	REF 1	SWIVEL REFER TO MAIN FRAME PARTS HOSE COVER 40" (NOT SHOWN)			
40 47	32321	2	BEARING 2"			
48	24724	2	ADAPTER (SIDE STOW ONLY)			
49	22076	1	SPACER (USED ON THE 50" BOOM ROTARY)			
50	23162	2	SPACER(USED ON FLAILHEADS AND 60" ROTARY)			
52 53	34104	2	HOSE 1/4" X 42"			
53 54	34103 *	2 REF	PREFORMED TUBE, 5/16" - SECONDARY BOOM SPHERICAL BEARING			
55	33271	1	ELBOW 1/2MOR x 3/8MJ			
56	6T3210	1	GREASE ZERK, 1/8 X 90			
57	06420100	1	PIN, CYLINDER			
58	06520222	1	SPACER (OPEN STOW OR 3PNT STOW ONLY)			
	Bengal Boom Common Section 6 - 15					

BOOMREST ASSEMBLY - 3 POINT STOW



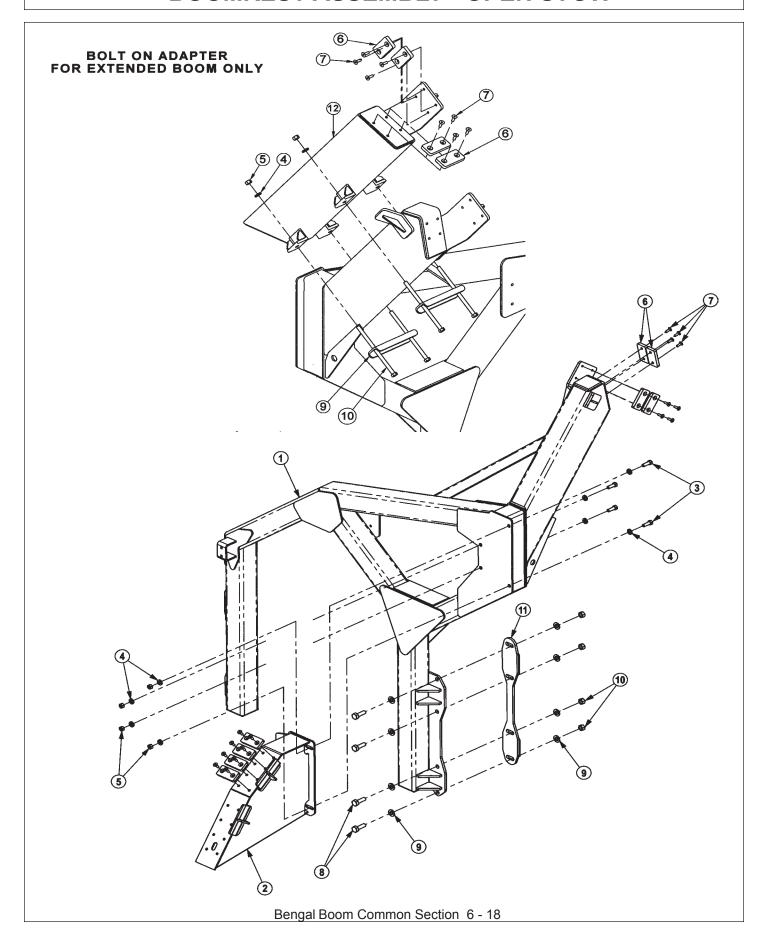
ITEM	PARTNO.	QTY.	DESCRIPTION
1	06310023	1	BOOMREST,STD,3PNT
2	TF1120	2	PIN,(CAPPED),1-1/8 X 3-7/8
3	TB1036	1	PIN,SEC BOOM SWIV 1X4-11/16
4	TF1143	3	PIN,LYNCH 7/16 X 2
5	TB1023	2	ROLLPIN,7/32 X 2

HOSE SUPPORT EXTENDED BOOM



ITEM	PART NO.	QTY.	DESCRIPTION
1	06310042	1	SUPPORT, HOSES, EXT, OS, 3S
2	06410608 06430075	1 2	CAP,SUPPORT,HOSES,EXT SPACER,4.00x.75ODx.50ID
4	21632	3	CAPSCREW,3/8" X 1-1/2" NC
5	21644	2	CAPSCREW,3/8" X 5" NC

BOOMREST ASSEMBLY - OPEN STOW



BOOMREST ASSEMBLY - OPEN STOW

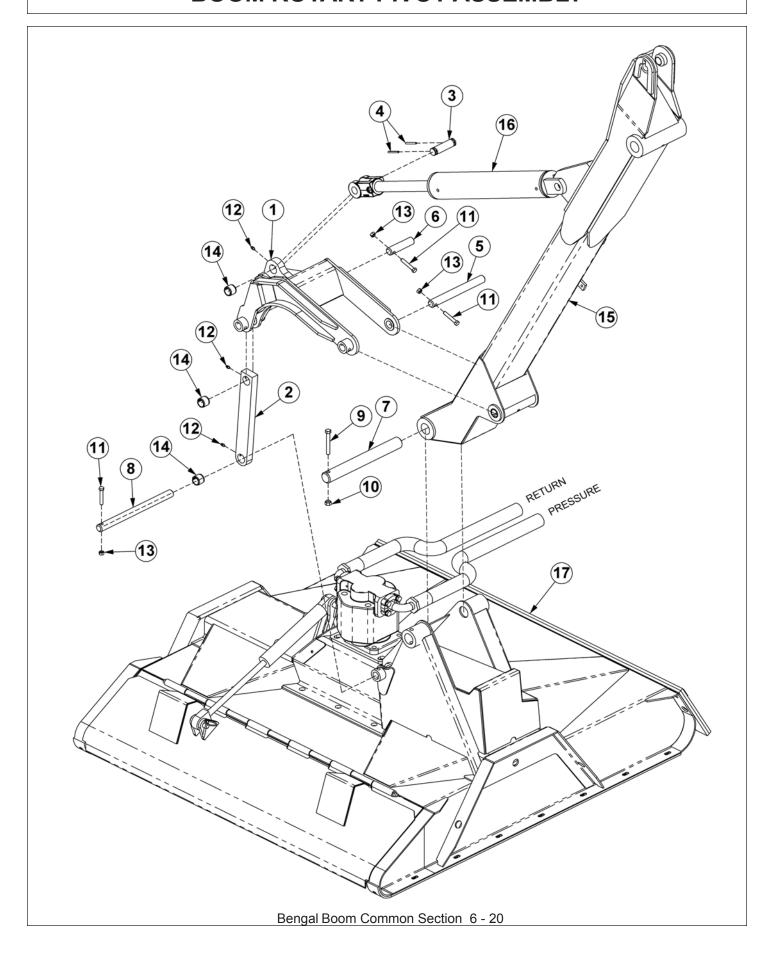
STANDARD BOOM

ITEM	PARTNO.	QTY.	DESCRIPTION
	06700100		
1	06310035	1	BOOMREST,BASE,RS
2	06310036	1	BOOMREST,SEC,3OS
3	21731	4	CAPSCREW,1/2 X 1-1/2 NC
4	2200406	8	FLATWASHER,1/2,SAE
5	21727	4	NYLOCK NUT, 1/2 NC
6	06520078	8	STRIP,REST,SEC,1
7	28734	16	CAPSCREW,FLT/SKT HD,3/8X1NC
8	21782	8	CAPSCREW,5/8 X 1-3/4 NC
9	33764	16	FLATWASHER,5/8,GR 8,SAE
10	21775	8	HEX NUT,5/8 NC
11	*	2	REAR STOW AXLE BRACE(SEE MAIN FRAME)

EXTENDED BOOM

ITEM	PARTNO.	QTY.	DESCRIPTION
	06700101		
1	06310035	1	BOOMREST,BASE,RS
2	06310036	1	BOOMREST,SEC,3OS
3	21731	4	CAPSCREW,1/2 X 1-1/2 NC
4	2200406	12	FLATWASHER,1/2,SAE
5	21727	8	NYLOCK NUT,1/2 NC
6	06520078	8	STRIP,REST,SEC,1
7	28734	16	CAPSCREW,FLT/SKT HD,3/8X1NC
8	21782	8	CAPSCREW,5/8 X 1-3/4 NC
9	33764	16	FLATWASHER,5/8,GR 8,SAE
10	21775	8	HEX NUT,5/8 NC
11	*	2	REAR STOW AXLE BRACE(SEE MAIN FRAME)
12	06310037	1	BOOMREST,EXT,MAIN,3OS
13	06410587	2	CHANNEL
14	21747	4	CAPSCREW,1/2x9,NC

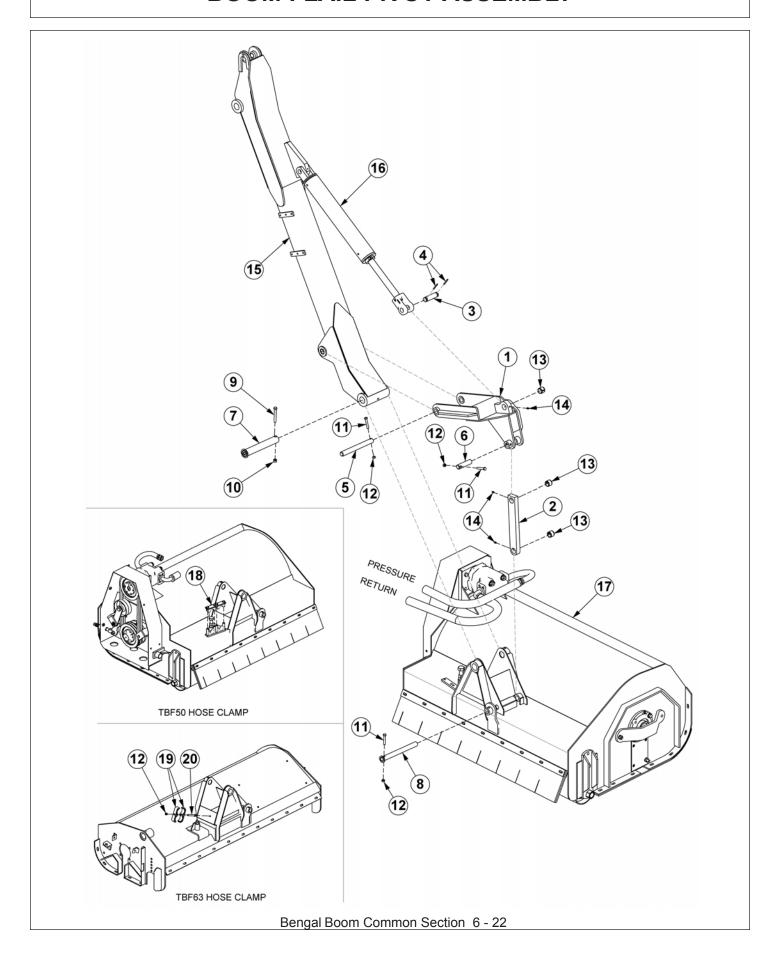
BOOM ROTARY PIVOT ASSEMBLY



BOOM ROTARY PIVOT ASSEMBLY

ITEM	PARTNO.	QTY.	DESCRIPTION
1	TB1032	1	ROTARY PIVOT ASSY
2	TB1028	1	PIVOTARMASSY
3	TB1033	1	PIN,CLEVIS
4	06537021	2	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	33985	1	PIN
8	33986	1	PIN
9	21688	1	CAPSCREW,7/16 x 3-1/4,NC
10	21677	1	NYLOCK NUT,7/16 NC
11	21635	3	CAPSCREW,3/8 x 2-1/4
12	6T3207	3	GREASE ZERK
13	21627	3	NYLOCK NUT,3/8,NC
14	TB3010	3	BUSHING
15	*	REF.	SECONDARY BOOM - REFER TO BOOM ARM ASSY
16	*	REF.	CYLINDER - REFER TO BOOM ARM ASSY
17	*	REF.	ROTARY MOWER HEAD - REFERTO ROTARY DECK

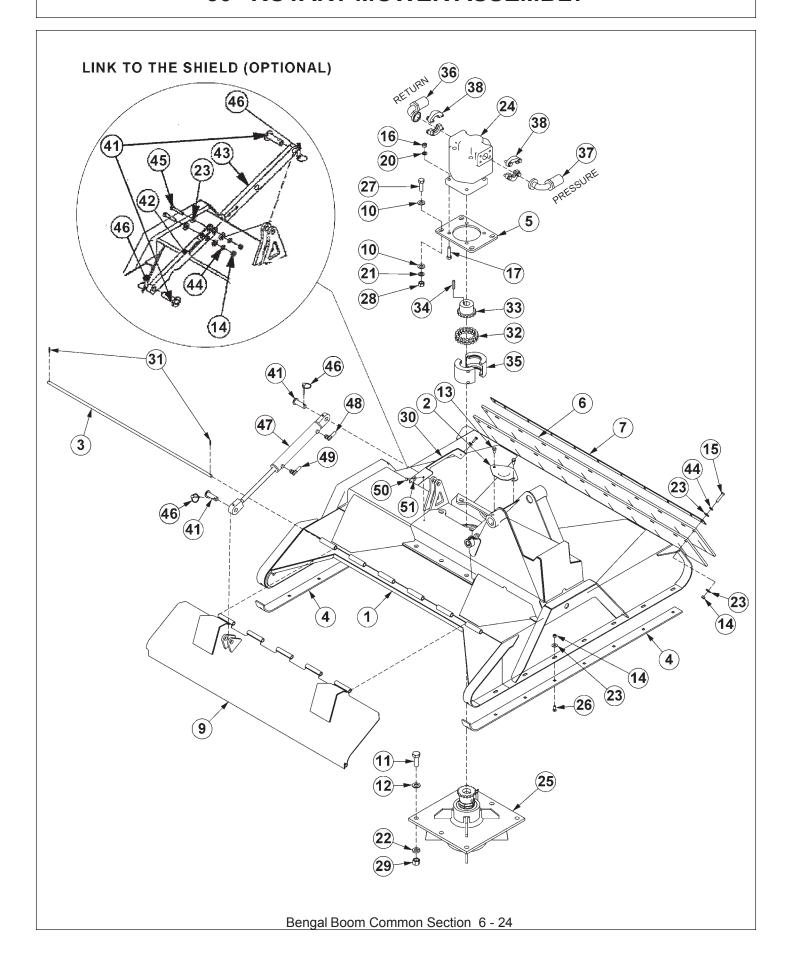
BOOM FLAIL PIVOT ASSEMBLY



BOOM FLAIL PIVOT ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 ** ** ** ** ** 19	TF3015 TB1028 TB1033 06537021 TF3097 TF3090 TB1024 TB1027 21688 21677 21635 21627 TB1030 6T3207 * * * * 31723 21679 31916 31917 31955 TB3031	1 1 1 2 1 1 1 1 1 1 3 4 3 3 REF. REF. 1 4 4 4 1	FLAIL PIVOT ASSY PIVOT ARM ASSY PIN CLEVIS ROLL PIN PIN PIN PIN PIN PIN CAPSCREW 7/16" X 3 1/4" NYLOCK NUT 7/16" CAPSCREW 3/8" X 2 1/4" NYLOCK NUT 3/8" BUSHING GREASE ZERK SECONDARY BOOM - RERFER TO BOOM ARM ASSY CYLINDER - REFER TO BOOM ARM ASSY FLAIL MOWER HEAD - REFER TO FLAIL ASSY CLAMP KIT, TBF50 (USED ON 50" FLAIL) CAPSCREW, 7/16" x 1" NC POST, CLAMP, HOSE, 3000 PSI, FLAIL, BOOM CUSHION, CLAMP, HOSE, 3000 PSI, FLAIL, BOOM PLATE, TOP, CLAMP, TBF DOUBLE HOSE CLAMP (USED ON THE 63" FLAIL)
20	21638	1	CAPSCREW 3/8" X 3"

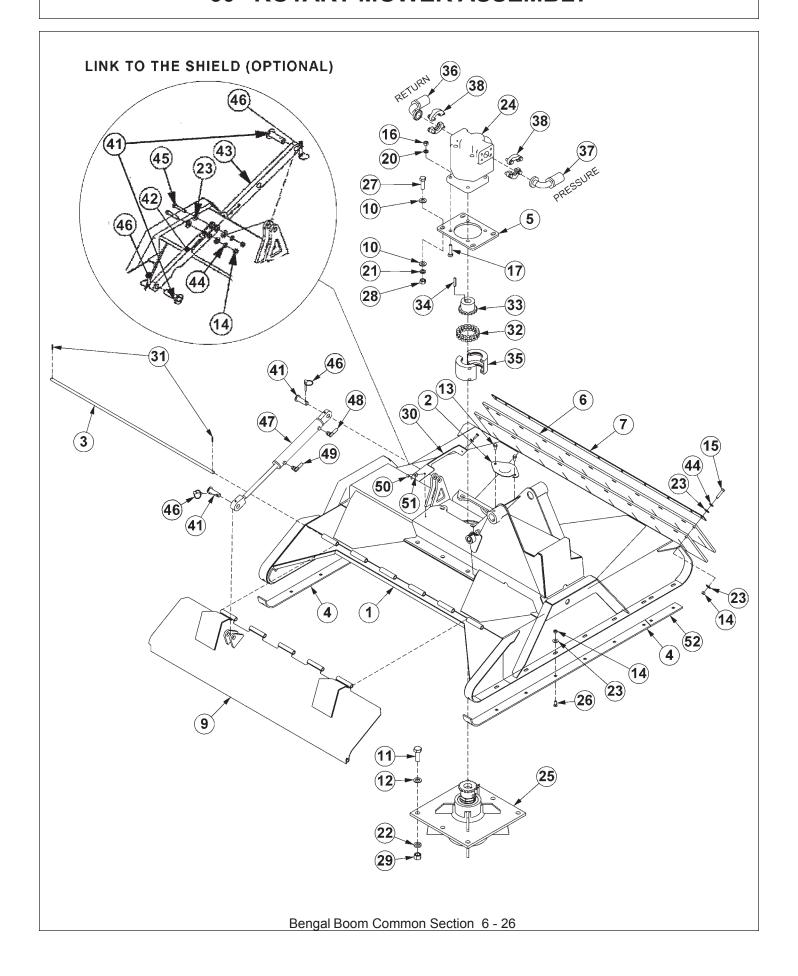
50" ROTARY MOWER ASSEMBLY



50" ROTARY MOWER ASSEMBLY

ITEM	P/N	QTY	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33779	1	PLATE, COVER, KNF HOLE
3	33778	1	HINGE PIN,50" RTRY
4	33777	2	SKID SHOE,50" RTRY
5	33776	1	MOTOR MOUNT,PLATE,50" RTRY
6	33775	2	FLAP,50" RTRY
7	33774	1	FLAP RETAINER,50" RTRY
9	33754	1	SHIELD,50"RTRY
10	33764	8	FLATWASHER,5/8",GR 8,SAE
11	33879	6	CAPSCREW, 3/4 x 2 1/4,NF GR 8
12	33880	6	FLATWASHER,3/4",GR 8,SAE
13	33881	2	CAPSCREW,FLG, 3/8 x 3/4,NC
14	21625	20	HEX NUT,3/8",NC
15	21633	11	CAPSCREW, 3/8 x 1 3/4,NC
16	21725	4	HEX NUT, 1/2" NC
17	21733	4	CAPSCREW, 1/2 x 2,NC
20	06533004	4	FLATWASHER, 1/2"
21	21992	4	LOCKWASHER, 5/8
22	21993	6	LOCKWASHER,3/4",GR 8
23	22016	33	FLATWASHER,3/8"
24 25	06504012 6T1024H5	1 1	MOTOR,(M365-1 3/4" GEAR)
26 26	6t2270	16	SPINDLE ASSY,CPLT,HD,5/8 HOLES PLOW BOLT,3/8" X 1" NC
20 27	6T2290	4	CAPSCREW,5/8x2,NF GR 8
28	6T2408	4	HEX NUT, 5/8, NF
29	6T2413	6	HEX NUT, 3/8, 141 HEX NUT, 3/4, NF, GR 8
30	06410439	1	COVER
31	6T3017	2	ROLLPIN
32	6T1029	1	COUPLER CHAIN
33	21223	1	SPROCKET
34	TF1124	1	SQUARE KEY
35	6T1033	1	COUPLER COVER WITH HARDWARE AND SEALS
36	24489	1	HOSE - RETURN
37	24490	1	HOSE - PRESSURE
38	TF4852	2	FLANGE KIT - #20
41	33984	2	PIN,SHIELD,50"
42	33773	1	LINK 2, SHIELD 50" RTRY (OPTIONAL)
43	33772	1	LINK, SHIELD 50" RTRY (OPTIONAL)
44	21988	11	LOCKWASHER, 3/8"
45	21634	2	CAPSCREW, 3/8" x 2, NC
46	RD1032	2	LYNCH PIN
47	33785	1	1-1/2" X 8", CYLINDER, WELDED
48	34186	1	HOSE 1/4" X 66"
49	34187	1	HOSE 1/4" X 75"
50	21530	2	CAPSCREW,1/4 x 1,NC
51	22016	2	FLATWASHER,1/4

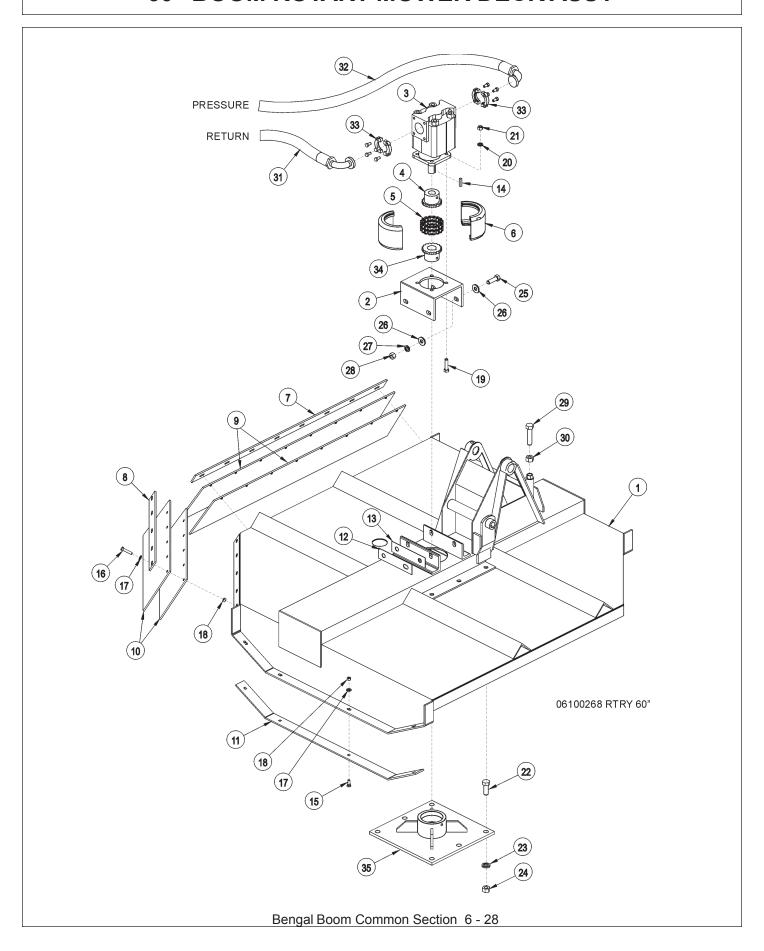
60" ROTARY MOWER ASSEMBLY



60" ROTARY MOWER ASSEMBLY

1 06320159 1 DECK,WLDMNT,60" RTRY 2 33779 1 PLATE,COVER,KNF HOLE 3 06420139 1 HINGE PIN,60" RTRY 4 33777 2 SKID SHOE,50" RTRY 5 33776 1 MOTOR MOUNT,PLATE,50" RTRY 6 06520238 2 FLAP,60" RTRY 7 6T0823 1 FLAP RETAINER,60" RTRY 9 06320162 1 SHIELD,60" RTRY 10 33764 8 FLATWASHER,56",GR 8,SAE 11 33879 6 CAPSCREW, 314 x 2 114,NF GR 8 12 33880 6 FLATWASHER,314",GR 8,SAE 13 33881 2 CAPSCREW, 114 (R) R 8,SAE 14 21625 33 HEX NUT,376",NC 15 21633 11 CAPSCREW, 112 x 2,NC 16 21727 4 NYLOCK NUT, 112" NC 17 21733 4 CAPSCREW, 112 x 2,NC 20 06533004 4 FLATWASHER, 518 21 21992 4 LOCKWASHER, 314",GR 8 22 21993 6 LOCKWASHER, 316",GR 8 23 22016 44 FLATWASHER, 518 24 06504011 1 MOTOR 25 6T1024H5 1 SPINDLE ASSY,CPLT,HD,5/8 HOLES 26 6T2270 20 PLOW BOLT, 318" X 1" NC 27 6T2290 4 CAPSCREW, 518 x N,F GR 8 28 6T2408 4 HEX NUT, 518, NF 29 6T2413 6 HEX NUT, 518, NF 29 6T2413 6 HEX NUT, 518, NF 30 06410439 1 COVER 31 6T3017 2 ROLLPIN 32 2123 1 SPROCKET 34 TF1124 1 SQUARE KEY 35 6T1023 1 HOSE - RESURE 14 33984 2 PIN,SHIELD,50" 15 13785 1 LINK 2, SHIELD, 50" 15 1418 5 PINDLE ROVER WITH HARDWARE AND SEALS 16 ROUGH AND SEALS 17 1418 1 LOCKWASHER, 318" 18 1486 1 HOSE - RETURN 18 20440 1 HOSE - PRESSURE 14 33984 2 PIN,SHIELD,50" 15 1418 6 HEX NUT, 518, NF 16 21634 2 PIN,SHIELD, 50" 16 1418 1 LOCKWASHER, 318" 17 1418 2 PINSHIELD,50" 18 1418 1 LOCKWASHER, 318" 18 1486 1 HOSE 114" X 66" 14 14" X 75" 15 1418 1 LOCKWASHER, 318" 16 1418 1 LOCKWASHER, 318" 17 1418 2 LINK 2, SHIELD (OPTIONAL) 18 1418 1 LOCKWASHER, 318" 18 1418 1 LOCKWASHER, 318" 18 1418 1 LOCKWASHER, 318" 19 1418 1 LOCKWASHER, 318" 11 LOCKWASHER, 318" 11 LOCKWASHER, 318" 11 LOCKWASHER, 318" 12 LINK 2, SHIELD (OPTIONAL) 14 21988 11 LOCKWASHER, 318" 14 LOCKWASHER, 318" 15 LINK 2, SHIELD (OPTIONAL) 16 LINK 2, SHIELD (OPTIONAL) 17 147 147 147 160" 18 1418 1 LOCKWASHER, 318" 18 1418	ITEM	P/N	QTY	DESCRIPTION
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51 22014 2 FLATWASHER,1/4				
02 U04U1240 Z SNID SNUE. I KB0U	52	06401245	2	SKID SHOE,TRB60

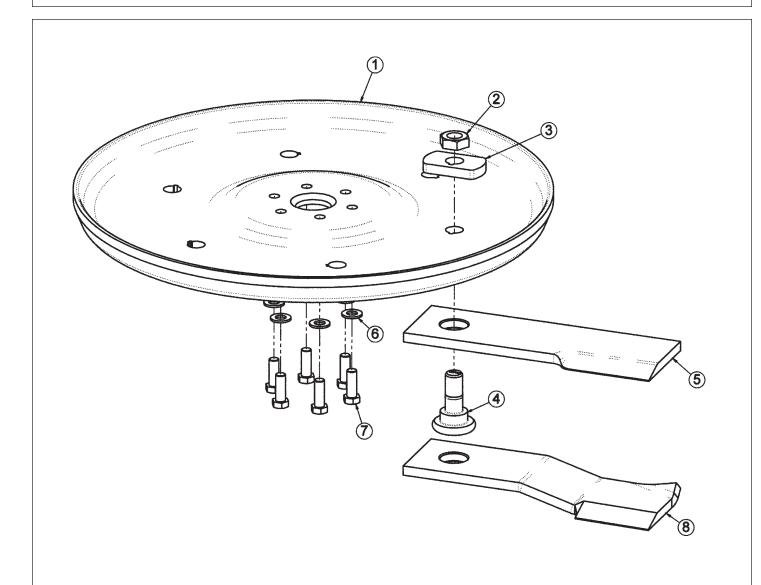
60" BOOM ROTARY MOWER DECK ASSY



60" BOOM ROTARY MOWER DECK ASSY

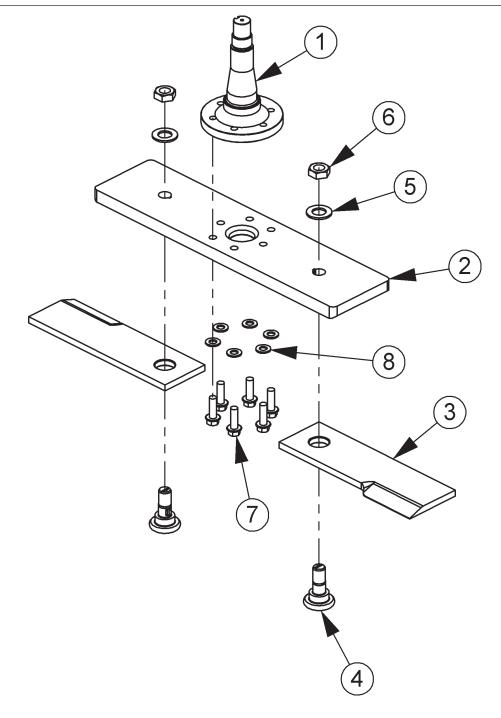
ITEM	PART NO.	QTY.	DESCRIPTION
1	27575	1	60" MOWER DECK
2	6T1001	1	MOTOR BRACKET
3	06504011	1	MOTOR(M365-2 1/4GEAR)
4	21223	1	SPROCKET
5	6T1029	1	COUPLER CHAIN
6	6T1033	1	COUPLER COVER WITH HARDWARE AND SEALS
7	TB1108	1	REAR FLAP RETAINING BAR - LARGE
8	TB1107	1	REAR FLAP RETAINING BAR - SMALL
9	TB1106	2	DEFLECTOR FLAP - LARGE
10	TB1105	2 2	DEFLECTOR FLAP - SMALL
11	TB1104A	2	SKID SHOE
12	6T0822	3	MOTOR MOUNTING SHIM -AS REQUIRED
13	6T0822A	2	MOTOR MOUNTING SHIM -AS REQUIRED
14	TF1124	1	SQUARE KEY
15	6T2270	8	PLOW BOLT
16	21633	14	CAPSCREW 3/8" X 1 3/4"
17	22016	22	FLATWASHER 3/8"
18	21625	22	HEX NUT 3/8"
19	21733	4	CAPSCREW 1/2" X 2"
20	21990	4	LOCKWASHER 1/2"
21	21725	4	HEX NUT 1/2"
22	33879	6	CAPSCREW 3/4" X 2-1/4" NF
23	21993	6	LOCKWASHER 3/4"
24	6T2413	6	HEX NUT 3/4"
25	6T2290	4	CAPSCREW 5/8" X 2"
26	33764	8	FLATWASHER 5/8"
27	21992	4	LOCKWASHER 5/8"
28	6T2408	4	HEX NUT 5/8"
29	21837	1	CAPSCREW 3/4" X 3 1/4"
30	21825	1	HEX NUT 3/4"
31	06500154	1	HOSE, 1" X 141" - RETURN
32	06500155	1	HOSE, 1" X 126" - PRESSURE
33	TF4852	2	FLANGE KIT
34	*	REF.	SPROCKET - REFER TO SPINDLE ASY
35	*	REF.	SPINDLE HOUSING - REFER TO SPINDLE ASY

50" ROTARY KNIVES AND DISK



ITEM	PART NO.	QTY.	DESCRIPTION
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
*	6T1825	1	LOCTITE - USED ONALL DISK MOUNTING BOLTS
*	06770012	AVAIL	BOLT KIT (INCLUDE ITEMS 6, 7 & LOCTITE)
*	06700089	AVAIL	KIT,TRB50,DISK,W/BOLT KIT(INCLUDE ITEM 1,3 & 7)
8	06521002	2	GRASS KNIFE - OPTIONAL

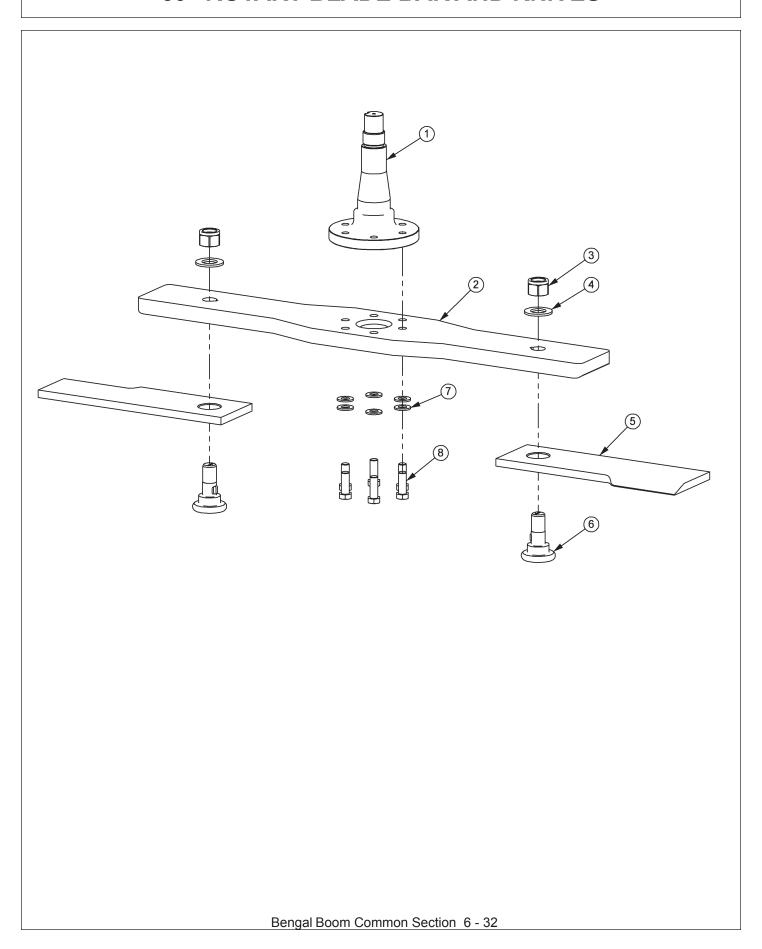
50" ROTARY BLADE BAR AND KNIVES



ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE,5/8HOLES,HD,WO/TABS
2	06400388	1	BAR,BLADE,TRB
3	06521001	2	KNIFE,TRB50,5/8
4	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
5	06533002	2	FLATWASHER,1 1/8,GR 8
6	6T1023R	2	KNIFE MTG NUT,1 1/8,NF,GR8
7	06530212	6	CAPSCREW,5/8x2,NF,GR8,FLNG HD
8	33764	6	FLATWASHER,5/8,GR 8,SAE

4-30-02

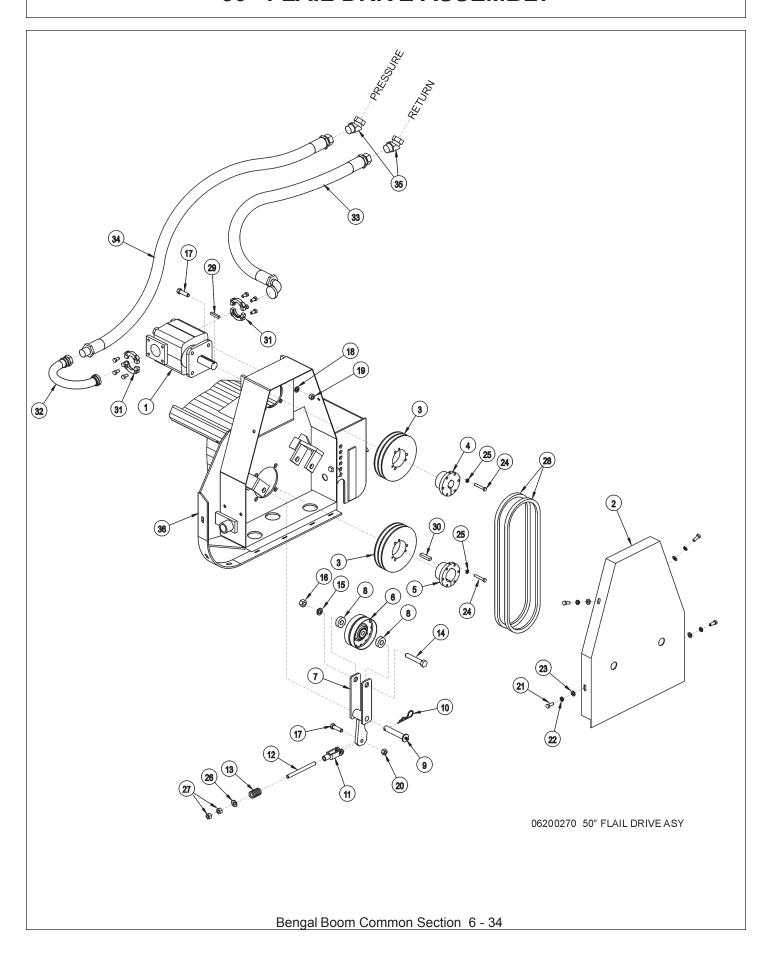
60" ROTARY BLADE BAR AND KNIVES



60" ROTARY BLADE BAR AND KNIVES

ITEM	PARTNO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE
2	06400690	1	BAR,BLADE,RTRY60
3	6T1023R	2	KNIFE MTG NUT,1-1/8,NYLOCK,NF
4	06533002	2	FLATWASHER,1-1/8,GR8
5	06521001	2	KNIFE,TRB50,5/8
6	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
7	33764	6	FLATWASHER,5/8,GR 8,SAE
8	6T2259	6	CAPSCREW, 5/8 x 1-3/4, NF, GR8

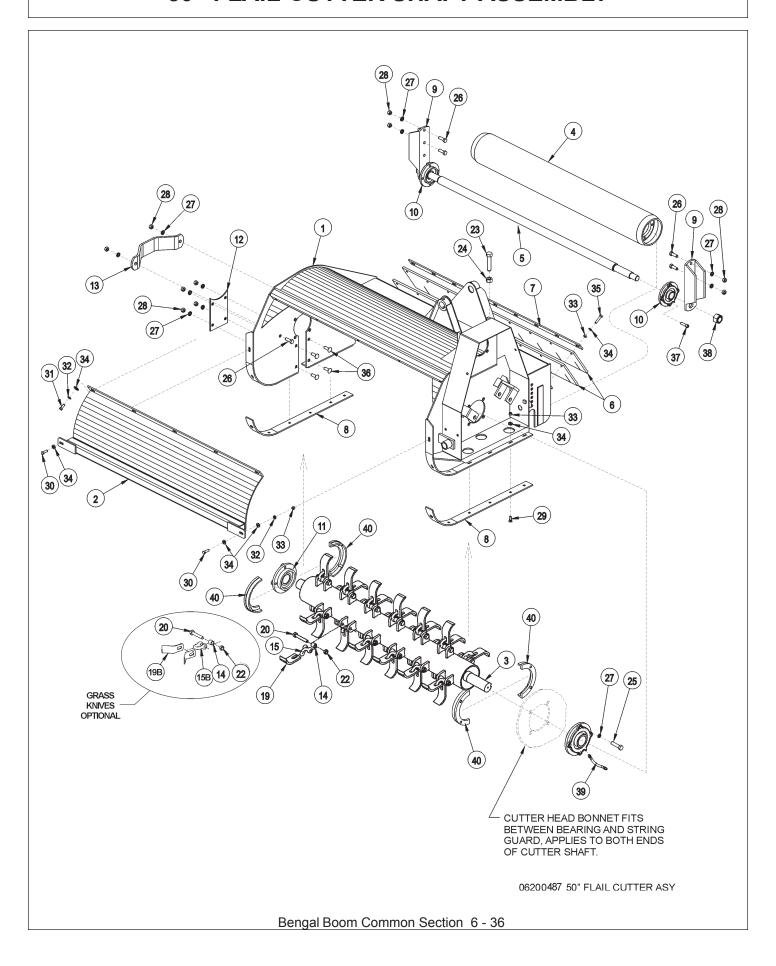
50" FLAIL DRIVE ASSEMBLY



50" FLAIL DRIVE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504013	1	CURRENT MOTOR,(M350-1 3/4" GEAR)
	23174	1	ORIGINAL MOTOR, (M350-1 3/4" GEAR)
2	TF3006	1	BELT GUARD
3	TF3043	2	SHEAVE
4	TF3013	1	BUSHING
5	TF3011	1	BUSHING
6	TF3034	1	IDLER PULLEY
7	TF3205	1	IDLERARM
8	TF3206	2	IDLER PULLEY SPACER
9	TF3605	1	IDLER ARM PIN WITH ZERK
10	6T3004	1	R - CLIP
11	PT3611A	1	CLEVIS
12	32481	1	THREADED ROD
13	TF3620	1	COMPRESSION SPRING
14	21789	1	CAPSCREW 5/8" X 3 1/2"
15	21992	1	LOCKWASHER 5/8"
16	21775	1	HEX NUT 5/8"
17	21732	5	CAPSCREW 1/2" X 1 3/4"
18	21990	4	LOCKWASHER 1/2"
19	21725	4	HEX NUT 1/2"
20	6T2418	1	LOCK NUT 1/2"
21	21630	4	CAPSCREW 3/8" X 1"
22	21988	4	LOCKWASHER 3/8"
23	22016	4	FLATWASHER 3/8"
24	21584	6	CAPSCREW 5/16" X 2"
25	21987	6	LOCKWASHER 5/16"
26	27938	1	FLATWASHER 1/2"
27	21700	2	HEX NUT 1/2" NF
28	TF3021	2	BELT
29	TF1125	1	SQUARE KEY
30	TF1025	1	SQUARE KEY MOTOR
31	TF4852	2	FLANGE KIT
32	31124	1	PREFORMED TUBE
33	31218	1	HOSE - RETURN
34	31219	1	HOSE - PRESSURE
35	24724	2	SWIVELFITTING
36	*	REF.	CUTTER HEAD - REFER TO CUTTER HEAD ASY

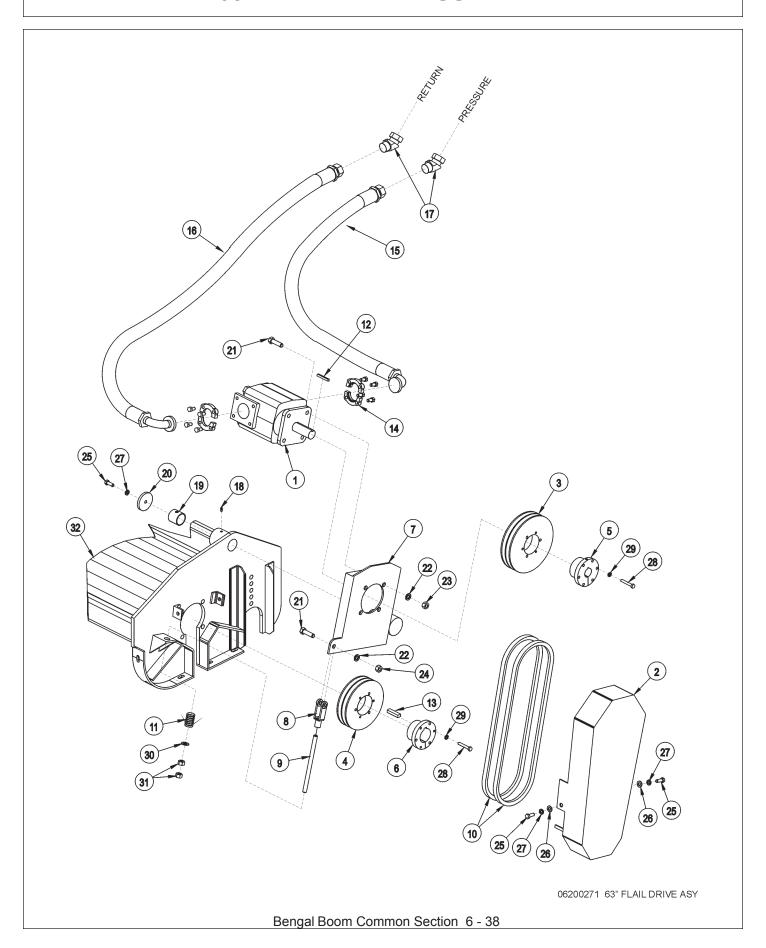
50" FLAIL CUTTER SHAFT ASSEMBLY



50" FLAIL CUTTER SHAFT ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1 2 3 3A 4 5 6 7 8 9 10 11 12 13 14 15 15B 19 19B 20 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	PART NO. 34787 34789 TF3004 34783 34784 TF3405 TF3406 TB1006A TB1006A TB1008 TF3001 TF3407 TF1022 TF1018 TF3007A TF1040 41725.01 34782 34781 34780 33714 34786 6T2419 21838 21825 06530218 21731 21990 21725 6T2270 21631 21630 21988 21625 22016 21633 6T7031D 6T2330	AVAIL AVAIL 1 1 AVAIL 1 1 2 1 2 2 2 2 1 1 2 4 2 4 2 4 2 4 2 4	FLAIL, BOOM, 50, BRUSH, CPLT ASSY FLAIL, BOOM, 50, GRASS, CMPLT ASSY CUTTER HEAD BONNET FRONT SHIELD TBF50, BRUSH, KNIFE ASSY TBF50, GRASS, KNIFE ASSY GROUND ROLLER GROUND ROLLER TIE ROD DEFLECTOR FLAP FLAP RETAINING BAR SKID SHOE GROUND ROLLER ADJUSTMENT BRACKET FLANGE BEARING 1 3/8" FLANGE BEARING 2 3/16" COVER PLATE CUTTER SHAFT GUARD BUSHING, 10DX5/8ID CLEVIS, BRUSH CLEVIS, GRASS BRUSH KNIFE STANDARD HD KNIFE - OPTIONAL CAPSCREW 9/16" X 3 1/2" HEX NUT 9/16" CAPSCREW 1/2" X 1 3/4" CAPSCREW 1/2" X 1 1/2" LOCKWASHER 1/2" HEX NUT 1/2" PLOWBOLT 3/8" X 1" CAPSCREW 3/8" X 1" LOCKWASHER 3/8" KLATWASHER 3/8" FLATWASHER 3/8" CAPSCREW 3/8" X 1 3/4" PLOW BOLT 1/2" X 1 1/2" CAPSCREW 3/8" X 1 3/4" PLOW BOLT 1/2" X 1 1/2" CAPSCREW 3/8" X 1 3/4" PLOW BOLT 1/2" X 1 1/2" CAPSCREW 3/8" X 1 3/4" PLOW BOLT 1/2" X 1 1/2" SOCKET HEAD
38 39 40	6T1023R TF1032 31204	2 1 2 SETS	NYLOCK NUT 11/8" NF FLANGE BEARING GREASE HOSE STRING GUARD SET (2 PIECES PER SET)

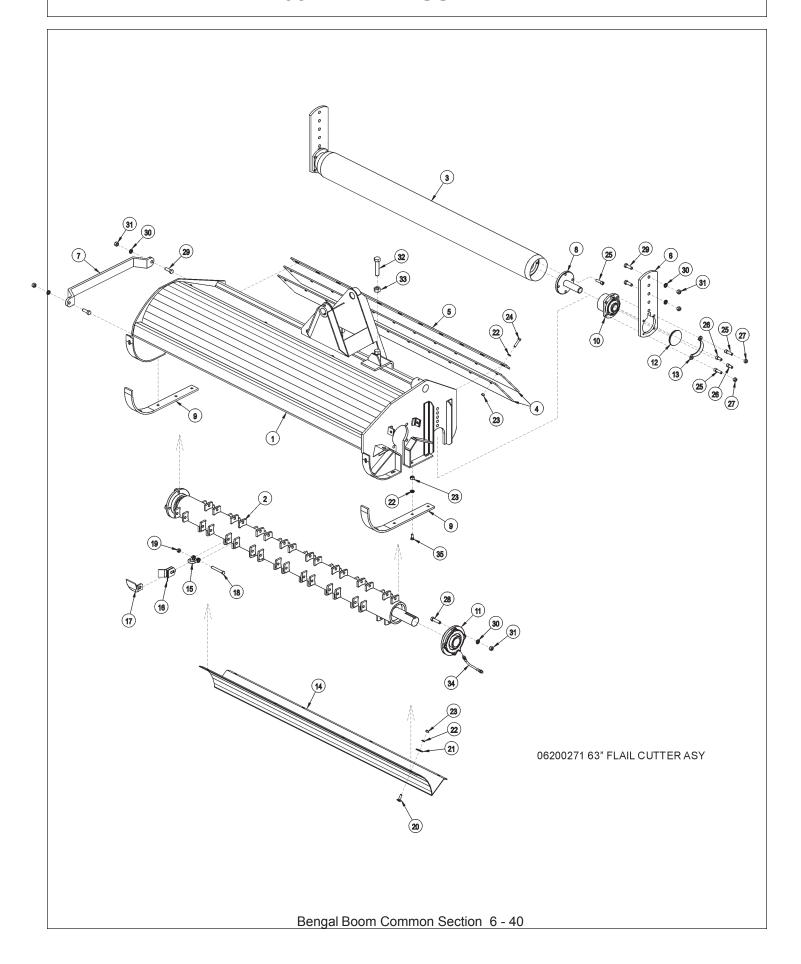
63" FLAIL DRIVE ASSEMBLY



63" FLAIL DRIVE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504013	1	CURRENT MOTOR(M350-1 3/4 GEAR)
0	23174	1	ORIGINAL MOTOR(M350-1 3/4 GEAR)
2	28703B	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4 5	TF3040 TF3013	1 1	LOWER SHEAVE BUSHING
6		1	BUSHING
7	28723 28679B	1	MOTOR CHANNEL
8	PT3611A	1	CLEVIS
9	40496	1	THREADED ROD
10	28702	2	BELT
11	TF3620A	1	TENSIONER SPRING
12	28572	1	SQUARE KEY
13	TF1025	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1 X 69(FJX X20FLG90) - PRESSURE
16	30309	1	HOSE,1 X 78(FJX X20FLG90) - RETURN
17	24724	2	SWIVEL FITTING /
18	TF1033	1	GREASE ZERK
19	27580	1	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW 1/2" X 1 3/4"
22	21990	5	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	21727	1	NYLOCK NUT 1/2"
25	21630	3	CAPSCREW 3/8" X 1"
26	22016	2	FLATWASHER 3/8"
27	21988	3	LOCKWASHER 3/8"
28	21584	6	CAPSCREW 5/16" X 2"
29	21987	6	LOCKWASHER 5/16"
30	27938	1	FLATWASHER 1/2"
31	21700	2	HEX NUT 1/2" NF
32	*	REF.	CUTTER HEAD - REFER TO CUTTER HEAD ASY

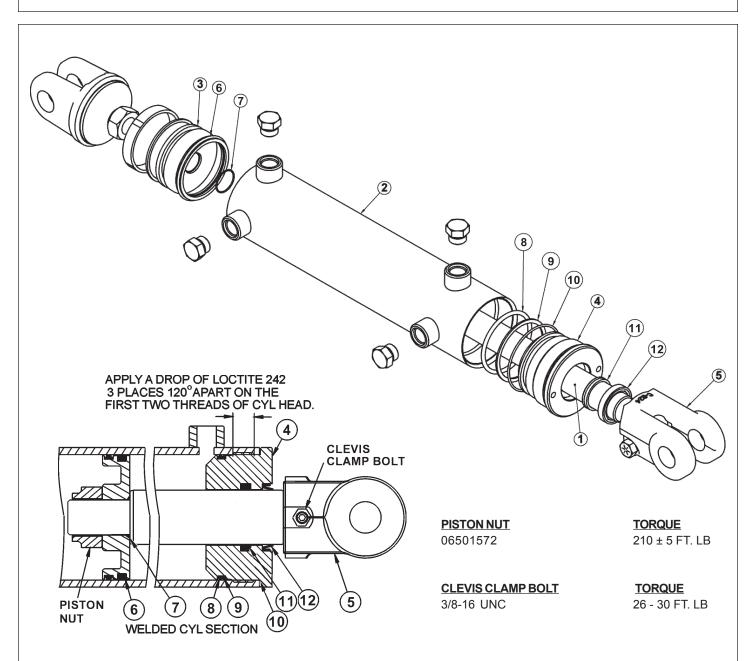
63" FLAIL ASSEMBLY



63" FLAIL ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	28659H	1	CUTTER HEAD BONNET
2	28743	1	CUTTER SHAFT / KNIFEASY STANDARD GRASS
2A	28744	1	CUTTER SHAFT / KNIFEASY SMOOTH CUT
3	28650A	1	GROUND ROLLER
4	28701	2	DEFLECTOR FLAP
5	28700	1	FLAP RETAINING BAR
6	28735	2	ADJUSTABLE ROLLER BRACKET
7	27975A	1	CUTTER SHAFT GUARD
8	TF1045B	2	GROUND ROLLER STUB SHAFT
9	28086A	2	SKID SHOE
10	TF1022S	2	FLANGE BEARING
11	28683	2	FLANGE BEARING
12	TF1041	2	DUST CAP
13	27857	2	BEARING CAP STRAP
14	28665A	1	BAFFLE - INSIDE UPPER REAR OF CUTTER HEAD
15	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
16	33713	72	FLAIL KNIFE - STANDARD
17	28184A	36	FLAIL KNIFE - SMOOTH CUT (OPTIONAL)
18	TF1021B	36	FLAIL KNIFE MOUNTING BOLT
19	21677	36	NYLOCK NUT
20	6T2283	8	CARRIAGE BOLT 3/8" X 1"
21	6T2615	8	FENDER WASHER 3/8"
22	21988	29	LOCKWASHER 3/8"
23	21625	29	HEX NUT 3/8"
24	21633	11	CAPSCREW 3/8" X 1 3/4"
25	6T2330	12	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
26	6T2331	4	CAPSCREW 7/16" X 1" SOCKET HEAD
27	24701	4	HEX NUT 7/16"
28	21733	8	CAPSCREW 1/2" X 2"
29	21731	6	CAPSCREW 1/2" X 1 1/2"
30	21990	14	LOCKWASHER 1/2"
31	21725	14	HEX NUT 1/2"
32	21838	1	CAPSCREW 3/4" X 3 1/2"
33	21825	1	HEX NUT 3/4"
34	TF1032	1	FLANGE BEARING GREASE HOSE
35	6T2270	10	PLOW BOLT 3/8" X 1 1/4"

3" x 10" WELDED CYLINDER PARTS (06501021)



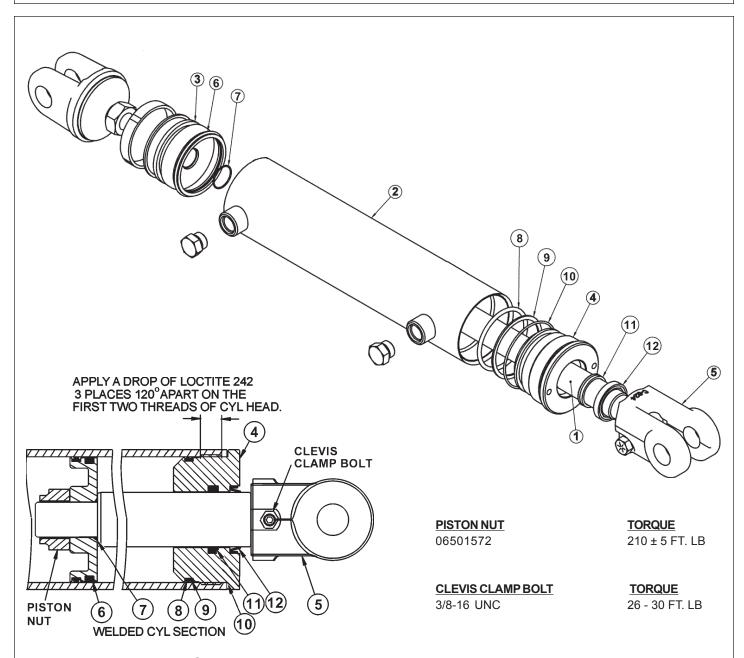
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501021	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501550	1	ROD
2	06501551	1	TUBE WELDMENT
3	06501552	1	PISTON
4	06501553	1	CYLINDER HEAD
5	06501554	1	CLEVIS
	06501555	AVAIL	SEAL REPAIR KIT (ITEM 6THROUGH ITEM 12)

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

07-11-06

3" x 18" WELDED CYLINDER PARTS (06501023)



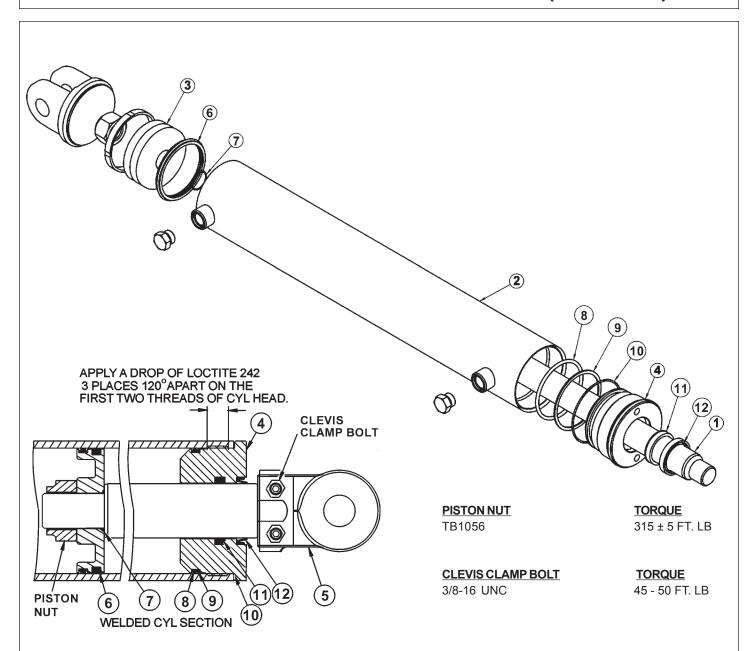
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501023	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501561	1	ROD
2	06501562	1	TUBE WELDMENT
3	06501552	1	PISTON
4	06501563	1	CYLINDER HEAD
5	06501555	1	CLEVIS
	06501564	AVAIL	SEAL REPAIR KIT (ITEM 6 THROUGH ITEM 12)
5		1 AVAIL	

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

10-2-02

3-1/2" x 20" WELDED CYLINDER PARTS (06501024)



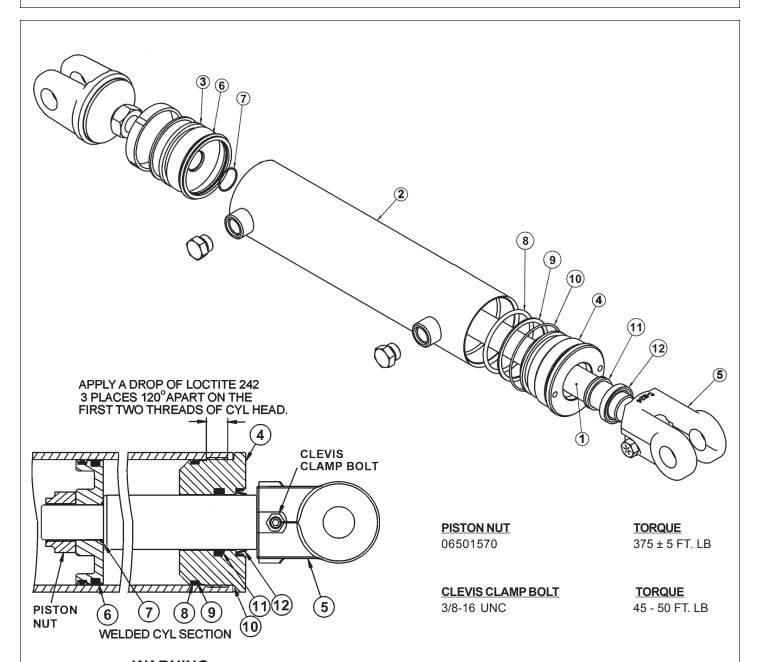
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501024	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501565	1	ROD
2	06501566	1	TUBE WELDMENT
3	06501567	1	PISTON
4	06501568	1	CYLINDER HEAD
5	TB3033	AVAIL	CLEIVIS
	06501569	AVAIL	SEAL REPAIR KIT (ITEM 6 THROUGH ITEM 12)

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

Bengal Boom Common Section 6 - 44

4" x 9" WELDED CYLINDER PARTS (06501019)



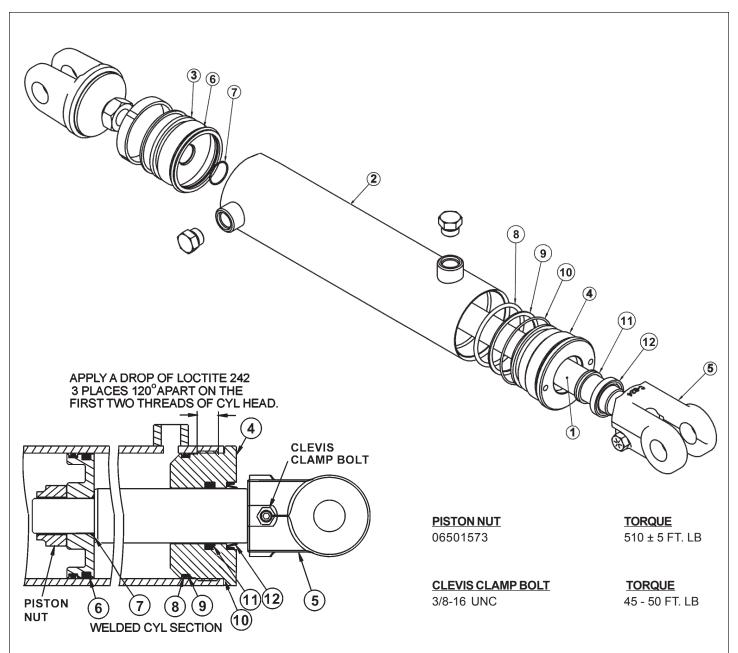
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501019	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501538	1	ROD
2	06501539	1	TUBE WELDMENT
3	06501540	1	PISTON
4	06501541	1	CYLINDER HEAD
5	06501542	1	CLEVIS
	06501543	AVAIL	SEAL REPAIR KIT (ITEM 6THROUGH ITEM 12)

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

4-12-05

4" x 20" WELDED CYLINDER PARTS (06501022)



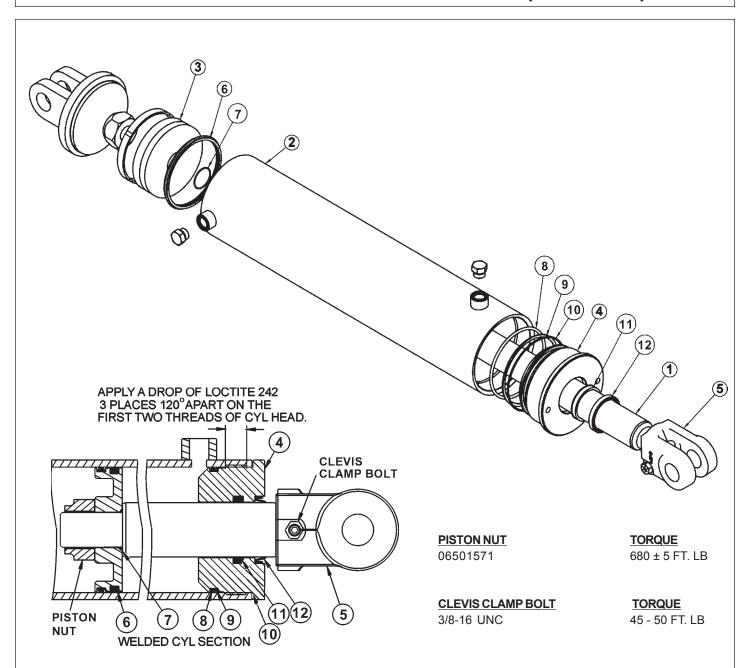
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501022	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501556	1	ROD
2	06501557	1	TUBE WELDMENT
3	06501558	1	PISTON
4	06501559	1	CYLINDER HEAD
5	6T0172	1	CLEVIS
	30172	*	CLEVIS (FOR EXTENDED BOOM)
	06501560	AVAIL	SEAL REPAIR KIT (ITEM 6THROUGH ITEM 12)

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

Bengal Boom Common Section 6 - 46

5" x 20" WELDED CYLINDER PARTS (06501020)



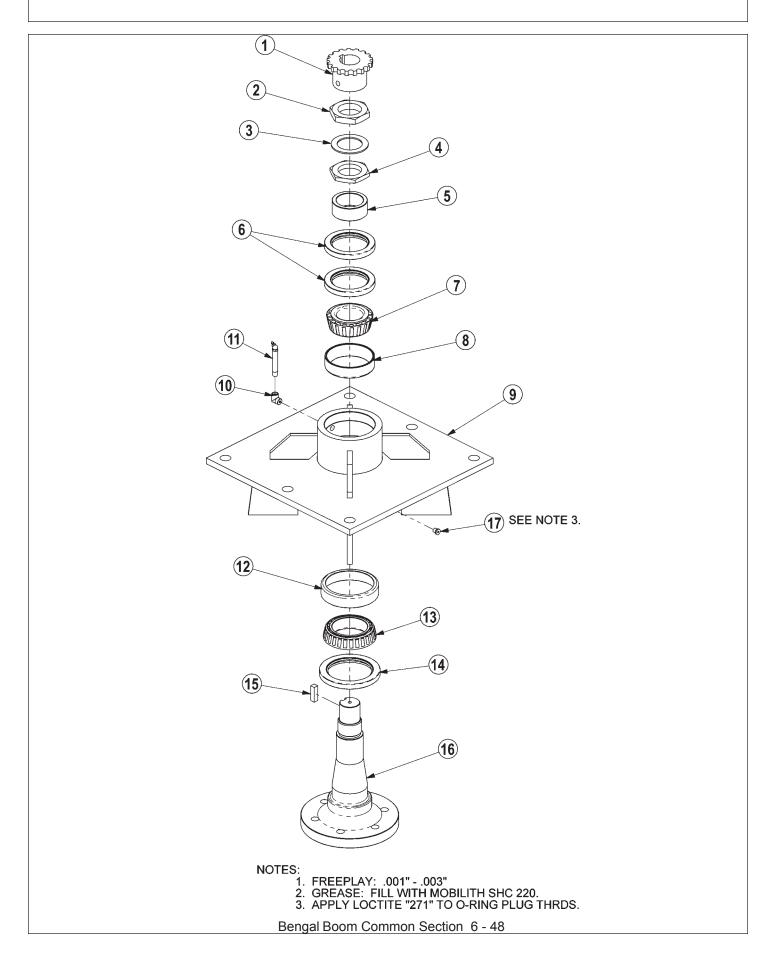
WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
*	06501020	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501544	1	ROD
2	06501545	1	TUBE WELDMENT
3	06501546	1	PISTON
4	06501547	1	CYLINDER HEAD
5	06501548	1	CLEVIS
	06501549	AVAIL	SEAL REPAIR KIT (ITEM 6THROUGH ITEM12)

NOTE - ALL SEALS AND WEAR RINGS MUSTBE PURCHASED IN COMPLETE SEAL REPAIR KIT.

10-2-02

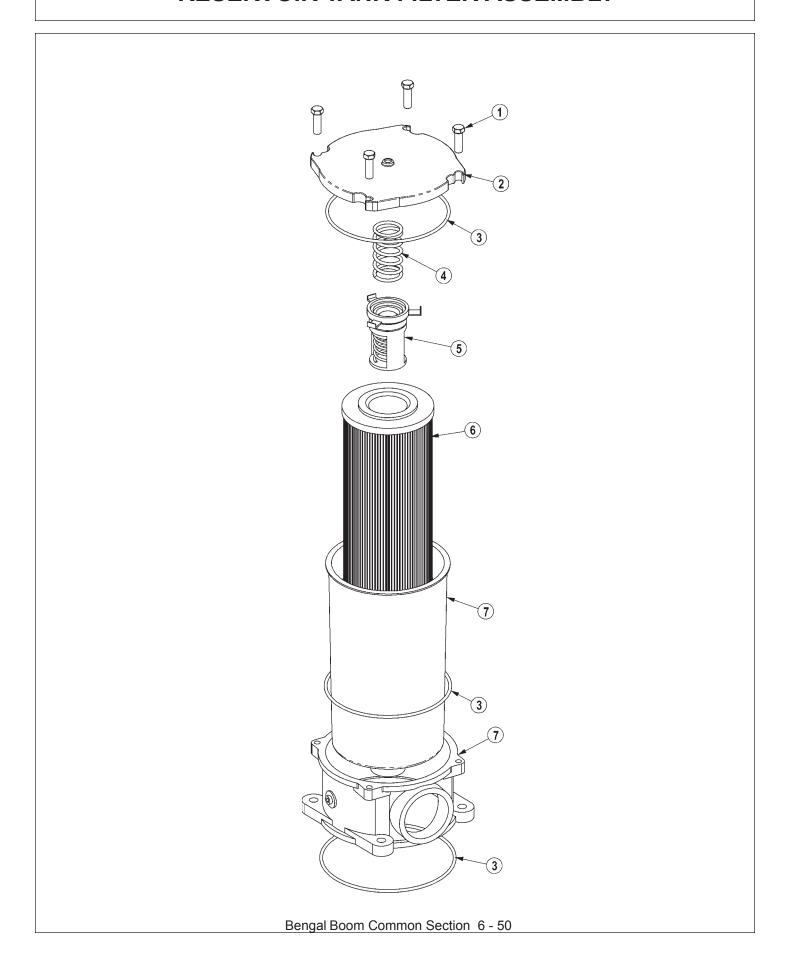
ROTARY MOWER SPINDLE ASSEMBLY



ROTARY MOWER SPINDLE ASSEMBLY

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

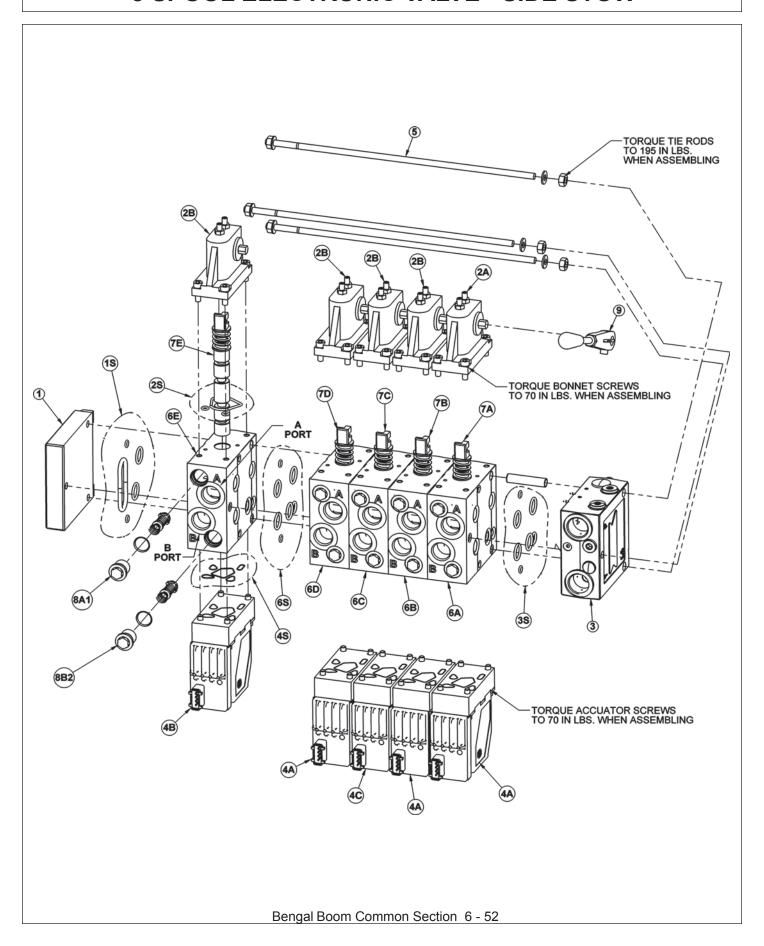
RESERVOIR TANK FILTER ASSEMBLY



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

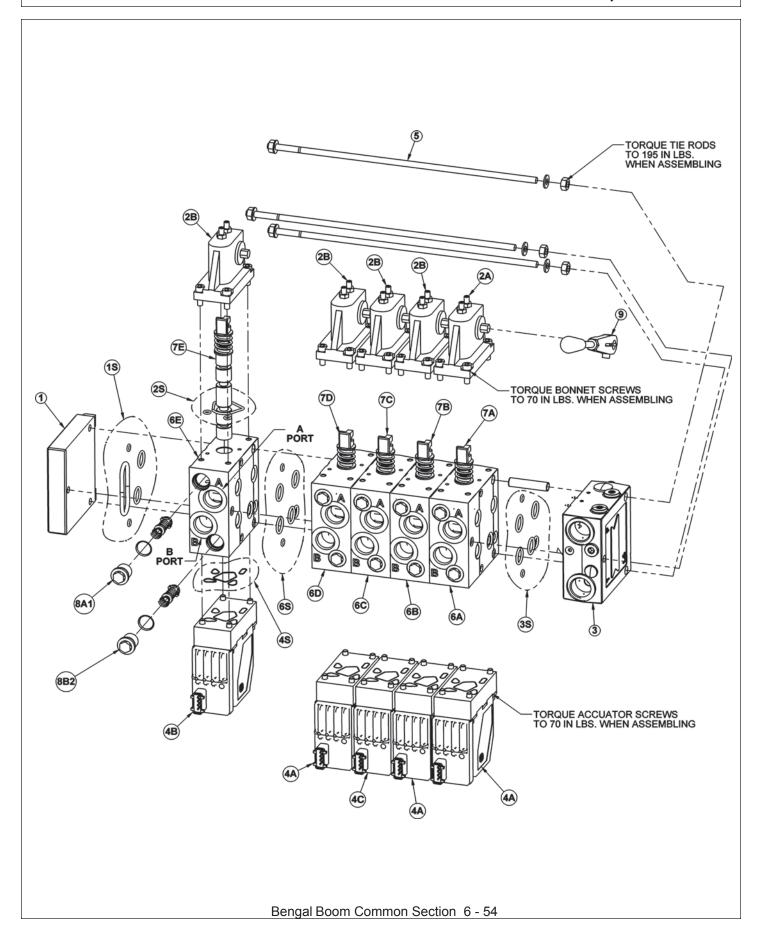
5 SPOOL ELECTRONIC VALVE - SIDE STOW



5 SPOOL ELECTRONIC VALVE - SIDE STOW

ITEM	PARTNO.	QTY.	DESCRIPTION
AVAIL.	06502096	REF	VLV,5SP,32PVG,SIDE STOW
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	*	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	33459	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2B	42197	1	DECK ROLL BONNET
2B	42197	1	BOOM SWIVEL BONNET
2B	42197	1	DECK SHIELD BONNET
3	34308	1	INLET SECTION
3 S	06505013	1	INLET SECTION SEAL KIT
4	*	5	ELECTRONIC ACCUATOR
4 4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
4A 4A	06502101	1	
4A 4C		1	SECONDARY BOOM ELECTRONIC ACCUATOR
	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4A	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
_4B	06502099	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6	*	5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	06502077	1	SHIELD SECTION
7	*	5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8	*	10	ANTI CAV/SHOCK RELIEF
8A1	42650	1	MAIN BOOM A PORT RELIEF
8A2	06502069	1	MAIN BOOM B PORT RELIEF
8B1	42650	1	SEC BOOM A PORT RELIEF
8B2	42295	1	SEC BOOM B PORT RELIEF
8C1	42296	1	DECK ROLL A PORT RELIEF
8C2	42295	1	DECK ROLL B PORT RELIEF
8D1	42295	1	BOOM SWIVEL A PORT RELIEF
8D2	42295	1	BOOM SWIVEL B PORT RELIEF
8E1	06502069	1	DECK SHIELD A PORT RELIEF
8E2	06502069	1	DECK SHIELD B PORT RELIEF
9	33459	1	HANDLE
•	00-100	•	

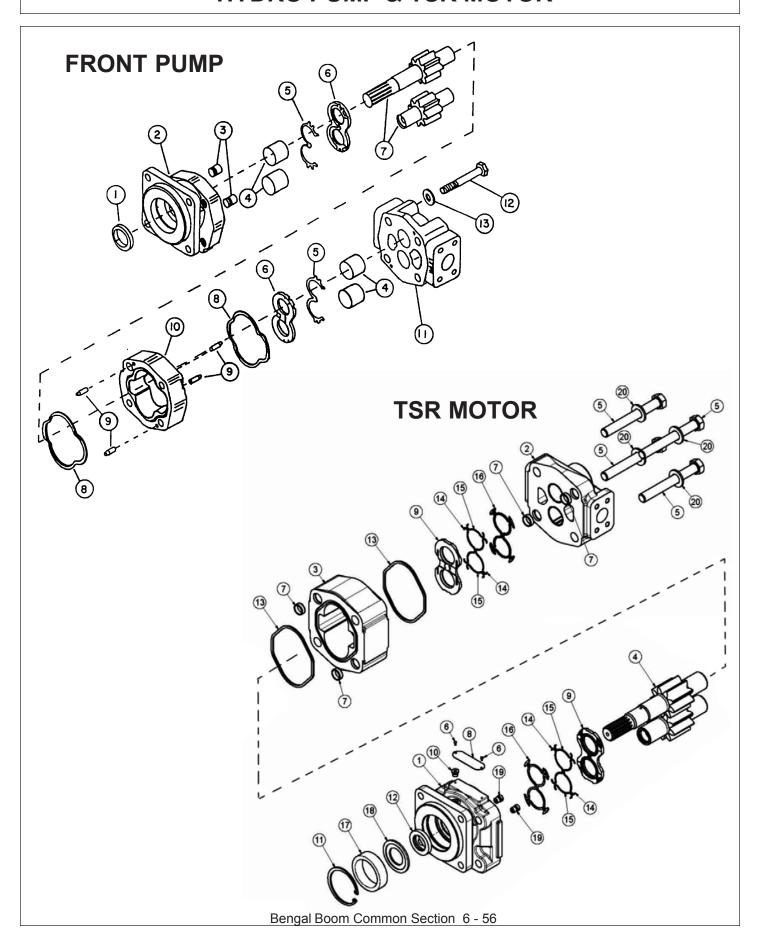
5 SPOOL ELECTRONIC VALVE - OPEN STOW, 3PS



5 SPOOL ELECTRONIC VALVE - OPEN STOW, 3PS

ITEM	PARTNO.	QTY.	DESCRIPTION
AVAIL.	06502097	REF	VLV,5SP,32PVG,OPEN STOW, 3OS
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	*	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	33459	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2B	42197	1	DECK ROLL BONNET
2B	42197	1	BOOM SWIVEL BONNET
2B	42197	1	DECK SHIELD BONNET
3	34308	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4	*	5	ELECTRONIC ACCUATOR
4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
4A	06502101	1	SECONDARY BOOM ELECTRONICACCUATOR
4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4A	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4B	06502099	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6	*	5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	06502077	1	SHIELD SECTION
7	*	5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8	*	10	ANTI CAV/SHOCK RELIEF
8A1	06502084	1	MAIN BOOM A PORT RELIEF
8A2	06502081	1	MAIN BOOM B PORT RELIEF
8B1	42296	1	SEC BOOM A PORT RELIEF
8B2	06502082	1	SEC BOOM B PORT RELIEF
8C1	42295	1	DECK ROLL A PORT RELIEF
8C2	06502082	1	DECK ROLL B PORT RELIEF
8D1	06502070	1	BOOM SWIVEL A PORT RELIEF
8D2	06502083	1	BOOM SWIVEL B PORT RELIEF
8E1	06502081	1	DECK SHIELD A PORT RELIEF
8E2	06502081	1	DECK SHIELD B PORT RELIEF
		-	

HYDRO PUMP & TSR MOTOR



HYDRO PUMP & TSR MOTOR

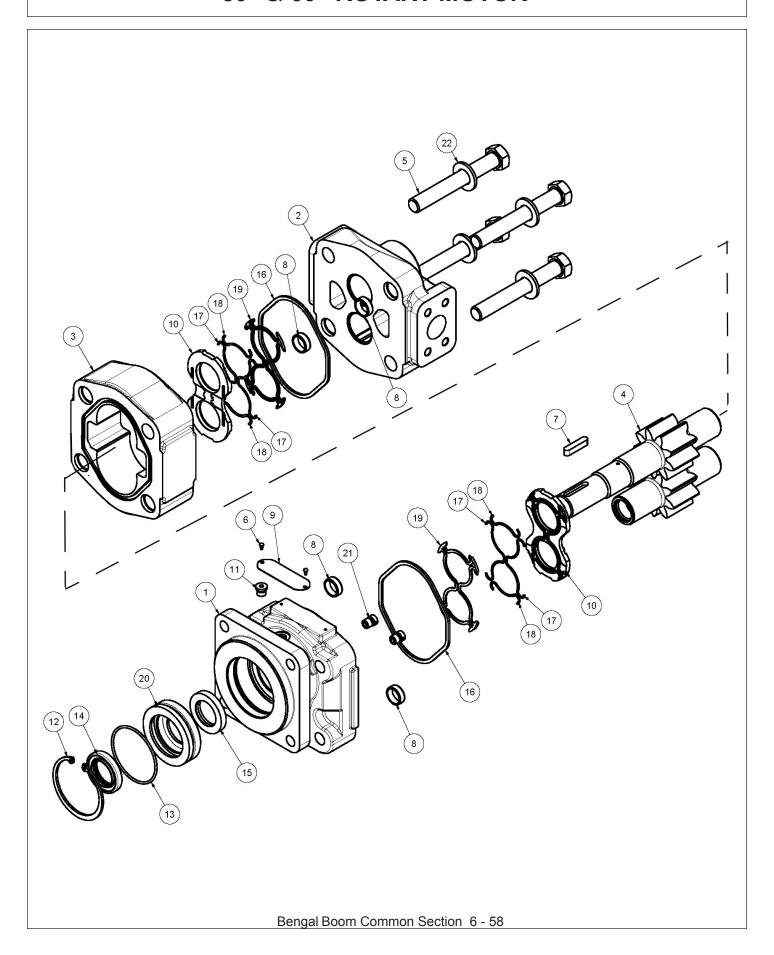
FRONT HYDRAULIC PUMP

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 SEALKIT)
7	22771	SET	DRIVE SHAFT AND GEAR SET 1 3/4"
8	22772	2	GASKET SEAL (INCLUDED IN SEAL KIT)
9	22773	4	DOWEL PINS
10	22774	1	GEAR HOUSING 1 3/4"
11	22779	1	PORT END COVER
12	23824	4	STUDS
13	22781	SET	WASHER
	6T5322	AVAIL	SEAL APPLICATOR TOOL
	24150	AVAIL	SEAL KIT (INCLUDES 1, 5, 6 AND 8)

TSR MOTOR

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

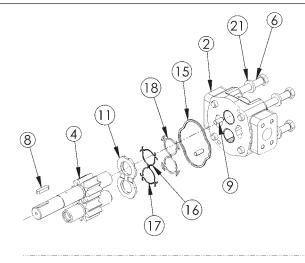
50" & 60" ROTARY MOTOR

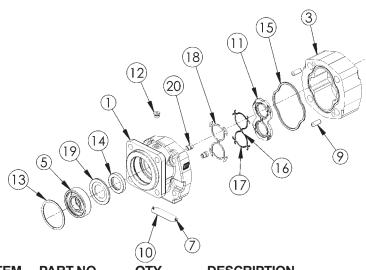


50" & 60" ROTARY MOTOR

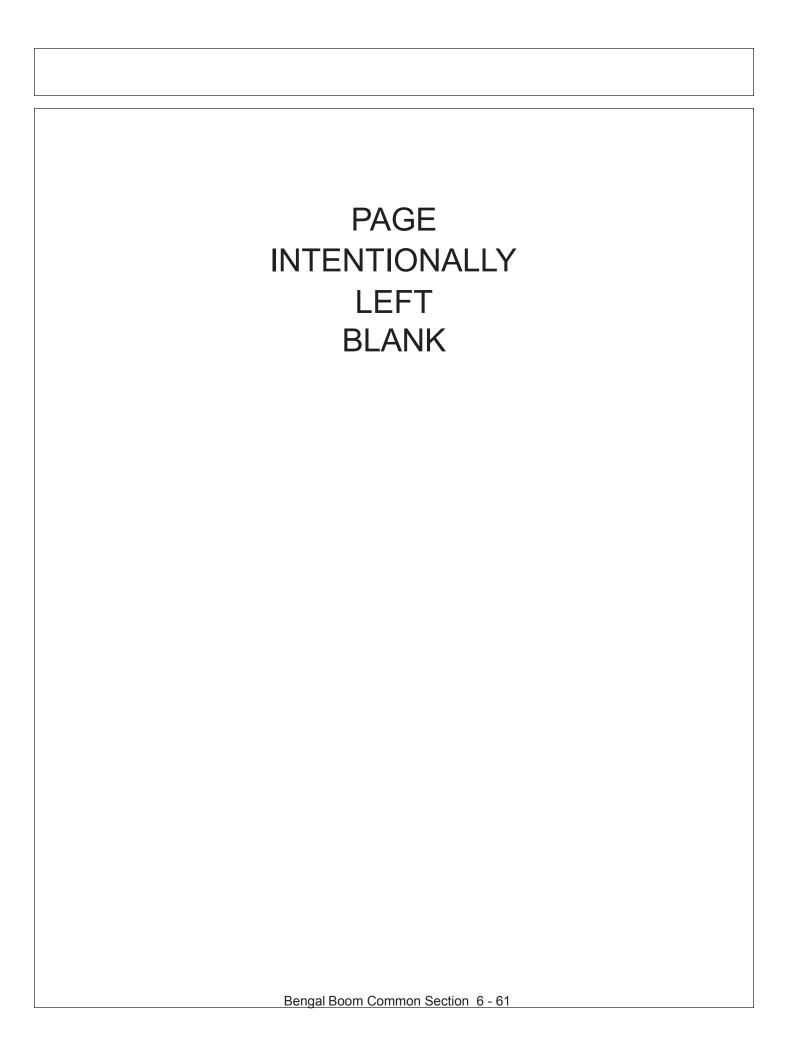
ITEM	PART NO.	QTY.	DESCRIPTION
*	06504012	AVAIL	MOTOR ASSEMBLY TRB50
	06504103	1	SEAL KIT
1	22790	1	HOUSING, SEC
2	06504088	1	HOUSING, SEC
3	06504089	1	HOUSING, GEAR
4	06504090	1	SET, GEAR SHAFT
5	06504091	4	CAP SCREW
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9 10	06504094	1	NAME PLATE THRPL
10 11	06504095 02961940	2 1	PLUG, ODT
12	02961940	1	RING, SNAP
13	06504096	1	O RING
14	6T5101	1	SEAL, LIP
15	06504097	1	SEAL, LIP
16	22797	2	SEAL, SQ-R
17	06504098	4	SEAL, SIDE CHAN
18	06504099	4	SEAL, END CHAN
19	06504100	2	SEAL, BK-UP
20	06504101	1	RTNR, SEAL
21	6T5809	2	CHECK ASS'Y
22	06504102	4	WASHER
	DADTNO	071	DESCRIPTION
ITEM	PART NO.	QTY.	DESCRIPTION
EM	06504011	AVAIL	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60
*	06504011 06504103	AVAIL 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT
*	06504011 06504103 22790	AVAIL 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC
* 1 2	06504011 06504103 22790 06504088	AVAIL 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC
* 1 2 3	06504011 06504103 22790 06504088 06504062	AVAIL 1 1 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR
* 1 2 3 4	06504011 06504103 22790 06504088 06504062 06504090	AVAIL 1 1 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT
* 1 2 3 4 5	06504011 06504103 22790 06504088 06504062 06504090 06504104	AVAIL 1 1 1 1 4	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW
* 1 2 3 4 5	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078	AVAIL 1 1 1 1 4 2	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE
* 1 2 3 4 5 6 7	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092	AVAIL 1 1 1 1 4 2 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY
* 1 2 3 4 5 6 7 8	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093	AVAIL 1 1 1 1 4 2 1 4	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL
* 1 2 3 4 5 6 7 8 9	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094	AVAIL 1 1 1 1 4 2 1 4 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE
* 1 2 3 4 5 6 7 8 9 10	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094 06504095	AVAIL 1 1 1 1 4 2 1 4	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL
* 1 2 3 4 5 6 7 8 9	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094 06504095 02961940	AVAIL 1 1 1 1 4 2 1 4 1 2	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT
* 1 2 3 4 5 6 7 8 9 10 11	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094 06504095	AVAIL 1 1 1 1 4 2 1 4 1 2 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL
* 1 2 3 4 5 6 7 8 9 10 11 12	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094 06504095 02961940 02962200	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP
* 1 2 3 4 5 6 7 8 9 10 11 12 13	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504078 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1 1 2 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SQ-R
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797 06504098	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1 1 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SIDE CHAN
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797 06504098 06504099	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1 2 4 4 4 4	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SQ-R SEAL, SIDE CHAN SEAL, END CHAN
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797 06504098 06504099 06504100	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1 2 4 4 2	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SQ-R SEAL, SIDE CHAN SEAL, BK-UP
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797 06504098 06504099 06504100 06504101	AVAIL 1 1 1 1 4 2 1 4 1 1 1 1 2 4 4 2 1	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SIDE CHAN SEAL, BK-UP RTNR, SEAL
* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	06504011 06504103 22790 06504088 06504062 06504090 06504104 06504092 06504093 06504094 06504095 02961940 02962200 06504096 6T5101 06504097 22797 06504098 06504099 06504100	AVAIL 1 1 1 1 4 2 1 4 1 2 1 1 1 2 4 4 2	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60 SEAL KIT HOUSING, SEC HOUSING, PEC HOUSING, GEAR SET, GEAR SHAFT CAP SCREW SCREW, DRIVE KEY PIN, DOWEL NAME PLATE THRPL PLUG, ODT RING, SNAP O RING SEAL, LIP SEAL, LIP SEAL, SQ-R SEAL, SIDE CHAN SEAL, BK-UP

FLAIL MOTOR

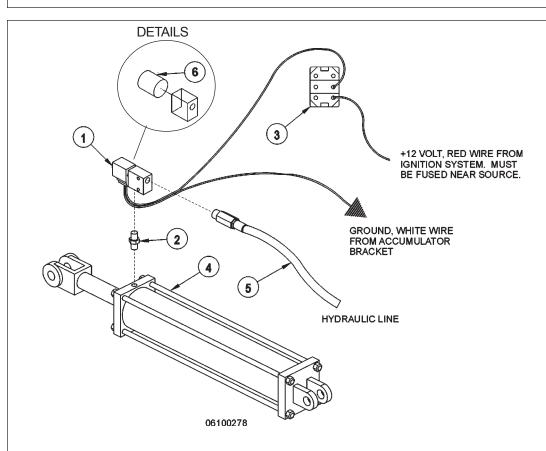


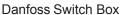


* 06504013 AVAIL MOTOR ASSEMBLY 350 - TBF50, TBF63 1 06504039 1 SHAFT END COVER 2 06504040 1 PORT END COVER 3 06504041 1 GEAR HOUSING 4 06504042 1 MATCHED GEAR SET 5 TF4402 1 BALL BEARING 6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18) Bengal Boom Common Section 6 - 60	ITEM	PART NO.	QTY.	DESCRIPTION			
1 06504039 1 SHAFT END COVER 2 06504040 1 PORT END COVER 3 06504041 1 GEAR HOUSING 4 06504042 1 MATCHED GEAR SET 5 TF4402 1 BALL BEARING 6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RET	*	06504013	AVAIL	MOTOR ASSEMBLY 350 - TBF50, TBF63			
2 06504040 1 PORT END COVER 3 06504041 1 GEAR HOUSING 4 06504042 1 MATCHED GEAR SET 5 TF4402 1 BALL BEARING 6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)	1						
3 06504041 1 GEAR HOUSING 4 06504042 1 MATCHED GEAR SET 5 TF4402 1 BALL BEARING 6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 <td>2</td> <td>06504040</td> <td>1</td> <td></td>	2	06504040	1				
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6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)	4	06504042	1	MATCHED GEAR SET			
6 06504043 4 CAP SCREW 7 06504044 2 SET SCREW 8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)	5	TF4402	1	BALL BEARING			
8 06504028 1 KEY 9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)	6	06504043		CAP SCREW			
9 06504045 4 DOWEL PIN 10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)	7	06504044	2	SET SCREW			
10 1 NAMEPLATE 11 763759 2 THRUSTPLATE 12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)		06504028	1	KEY			
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12 02961940 1 HEX PLUG 13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)			•	NAMEPLATE			
13 TF4401 1 SNAP RING 14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)		763759	2	THRUSTPLATE			
14 06504049 1 LIP SEAL (INCLUDED IN SEAL KIT) 15 TF4410 2 GASKET SEAL (INCLUDED IN SEAL KIT) 16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)							
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16 06504046 4 SIDE SEAL (INCLUDED IN SEAL KIT) 17 06504047 4 END SEAL (INCLUDED IN SEAL KIT) 18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)							
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18 TF4407 2 BACK-UP SEAL (INCLUDED IN SEAL KIT) 19 06504048 1 SEAL RETAINER 20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)							
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20 6T5809 2 CHECK ASSEMBLY 21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)		-	2				
21 02961917 4 WASHER * 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)							
* 06504023 AVAIL SEAL KIT (INCLUDES 14, 15, 16, 17,AND 18)							
,			-				
Bengal Boom Common Section 6 - 60	*						
	Bengal Boom Common Section 6 - 60						



BOOM TRAVEL LOCK







TRAVEL LOCK
SWITCH



TRAVEL LOCK

SWITCH

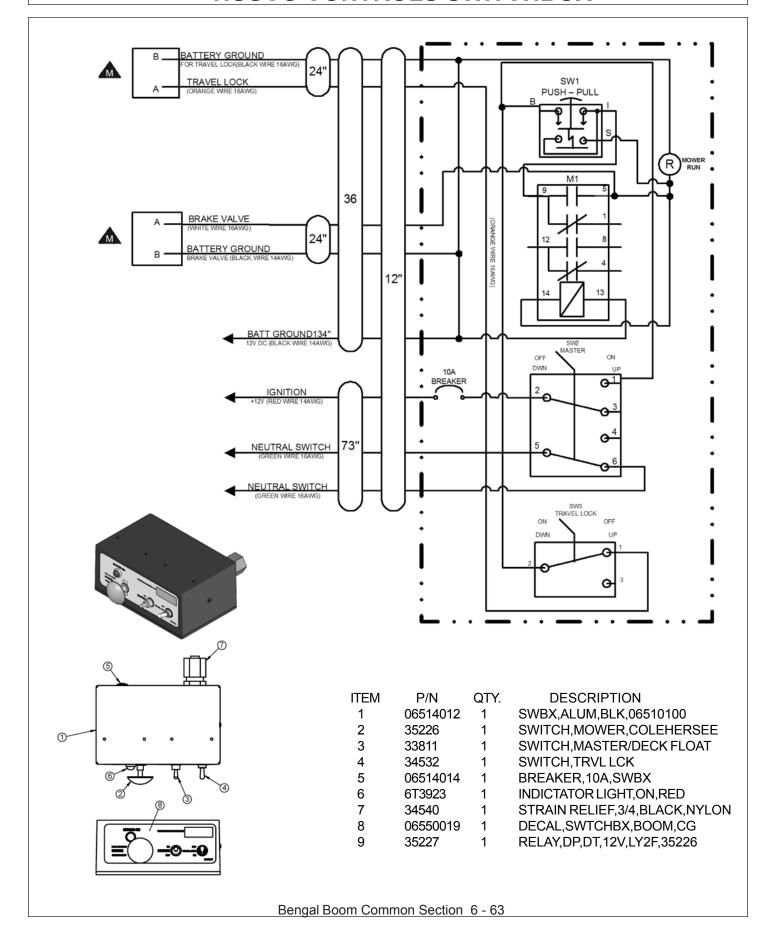
OLDER UNITS ONLY, SWITCH ON NEWER MODELS IN SWITCHBOX Refer to your switchbox before drilling hole or wiring.

For cab units, drill a hole in an open area on the right side of the dash panel and install the toggle switch. For non-cab units, use the mounting bracket included to install the toggle switch on the under side of the valve stand. Install the decal for the toggle switch operation directly by the toggle switch.

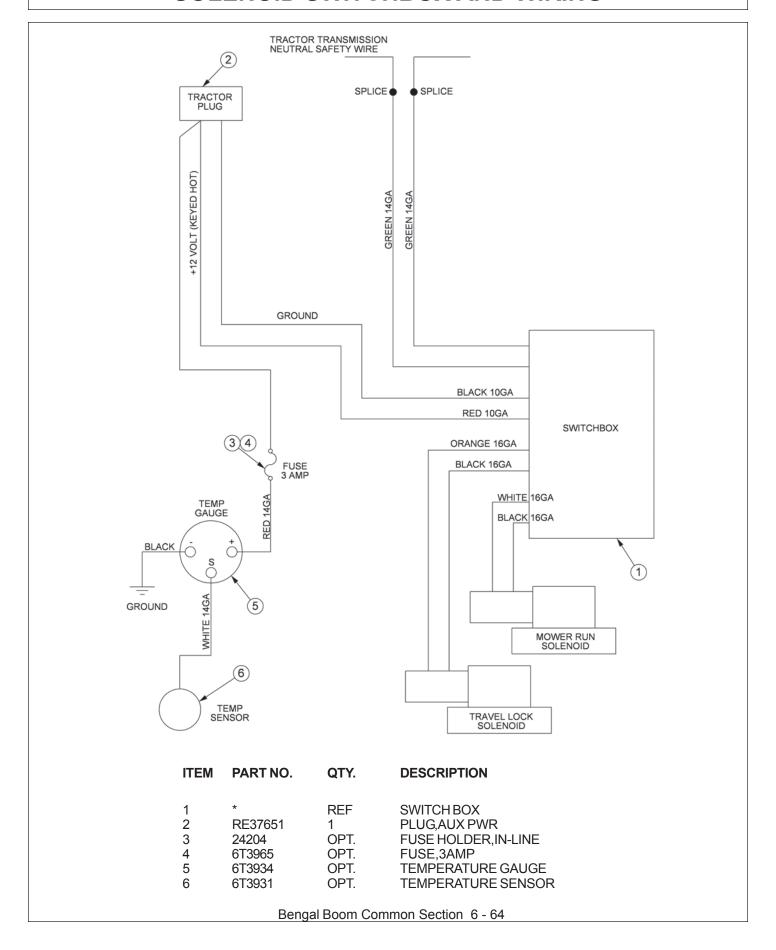
1 31328 1 HYDRAULIC TRAVEL LOCK VALVE 2 31329 1 ADAPTER - STANDARD BOOM 2A 31611 OPT. ADAPTER - EXTENDED BOOM 3 34532 1 SWITCH,TRAVEL LOCK 4 * REF. MAIN BOOM CYLINDER - REFER OTBOOM A 5 * REF. HOSE / FITTINGS - REFERTO BOOM ASY 6 34796 1 COIL ,TRAVEL LOCK	ITEM	PART NO.	QTY.	DESCRIPTION
	2A 3 4 5	31329 31611 34532 *	1 REF.	ADAPTER - STANDARD BOOM ADAPTER - EXTENDED BOOM SWITCH,TRAVELLOCK MAIN BOOM CYLINDER - REFER OTBOOM ASY HOSE / FITTINGS - REFERTO BOOM ASY

7-25-02

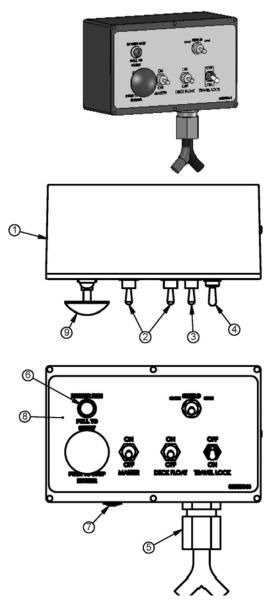
HUSCO CONTROLS SWITCHBOX



SOLENOID SWITCHBOX AND WIRING

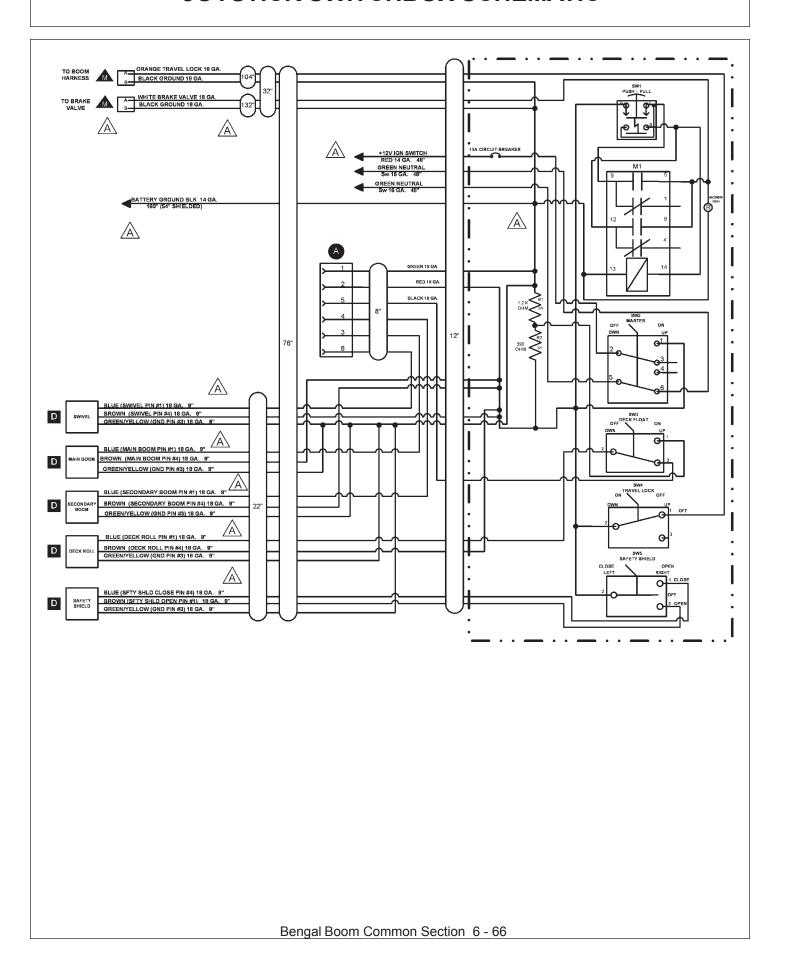


JOYSTICK SWITCHBOX SERVICE PARTS

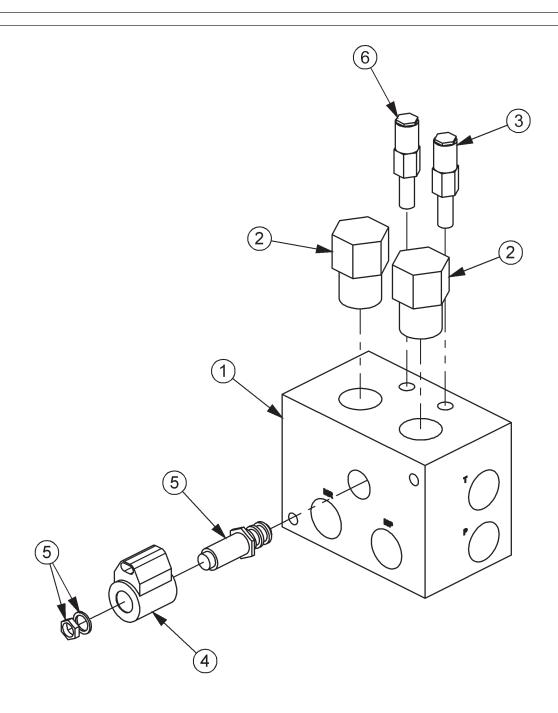


ITEM	P/N	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,MOWER,COLEHERSEE
10	35227	1	RELAY,DP,DT,12V,LY2F,35226

JOYSTICK SWITCHBOX SCHEMATIC

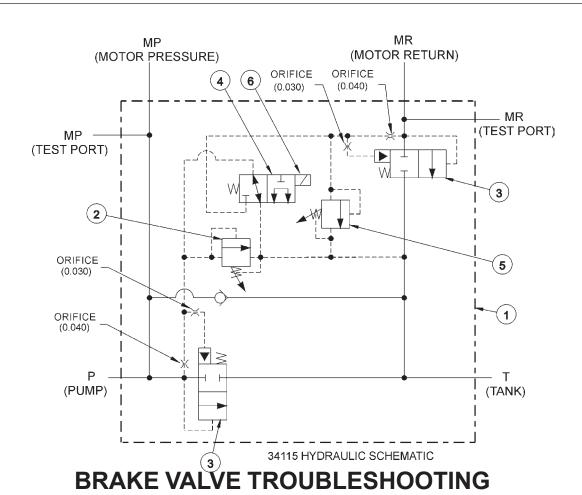


BRAKE VALVE ASSEMBLY W/ METRI PAK



ITEM	PARTNO.	QTY.	DESCRIPTION
1 2 3 4 5 6	34092 34094 34095 06510095 34093 34091	1 2 1 1 1	BRAKE VALVE, BLANK LOGIC ELEMENT RELIEF VALVE, 3500 PSI METRI PAK COIL CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER) RELIEF VALVE, 2600 PSI

BRAKE VALVE HYDRAULIC SCHEMATIC



FAILURE MODE: CHECK STEPS

- MOWER WILLNOT START - system pressure is low (enginenot 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

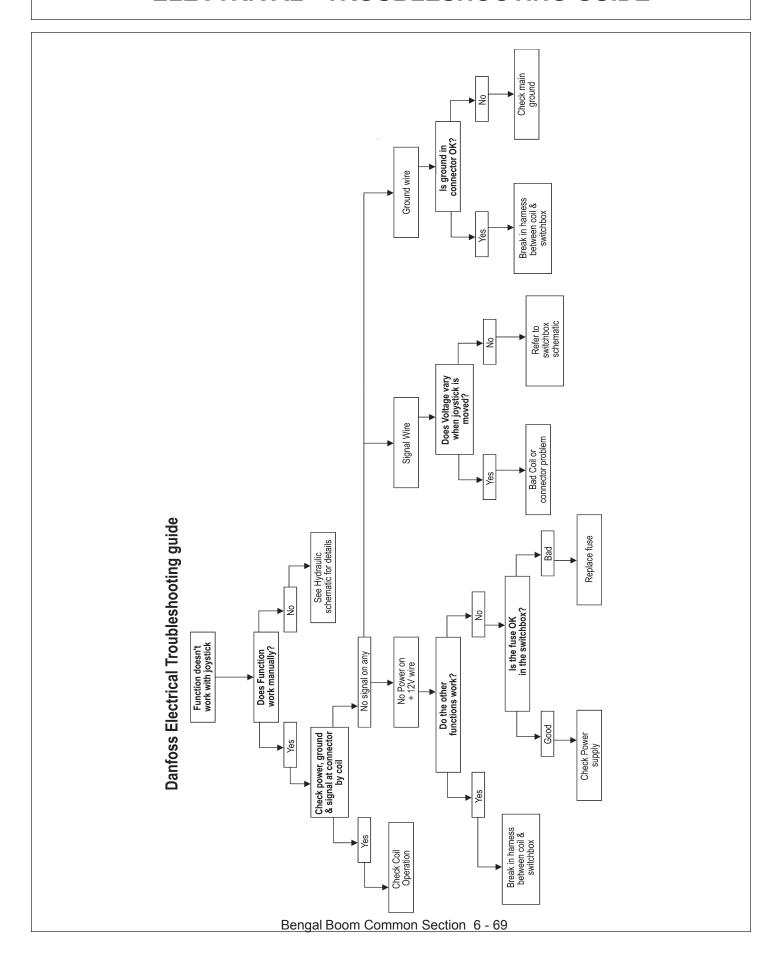
- MOWER BLADE WILL NOT STOP - blade wilhot stop in propertime. 7 thru 9

CORRECTIVE STEPS:

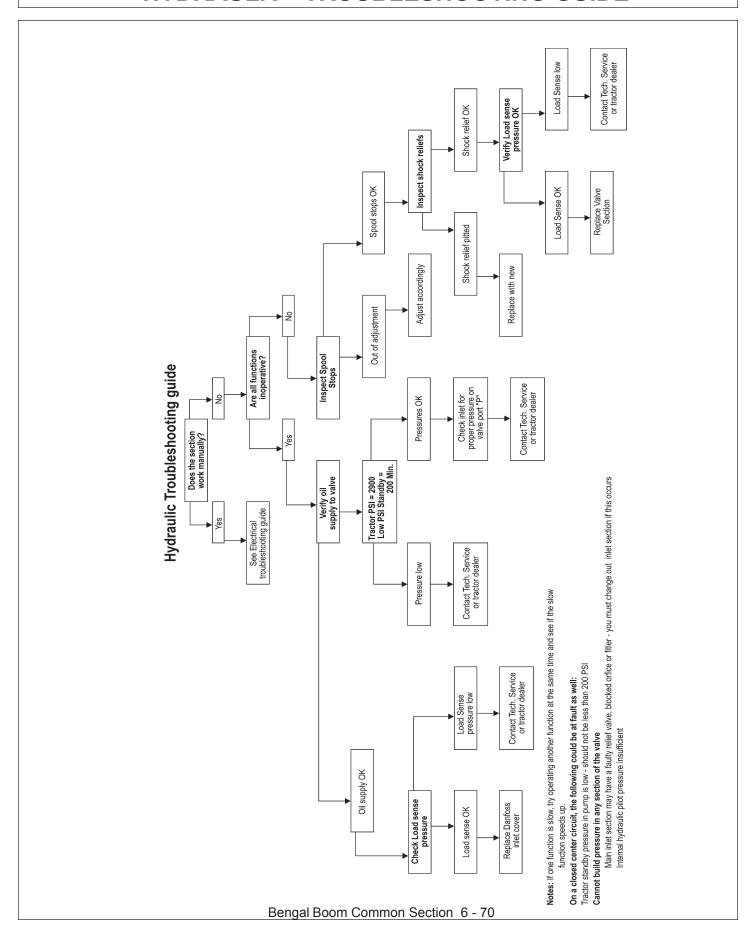
- 1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
- 2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
- 3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
- 4. Remove, inspect 3000 psi relief 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.

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ELECTRICAL - TROUBLESHOOTING GUIDE



HYDRAULIC - TROUBLESHOOTING GUIDE



TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

Turn off electronic master switch (preventing electronic actuator on valve from attempting to hold spool in neutral position). With tractor engine running, operate the valve section with the manual handle. If function operates normally, continue with electronic inspection. If function does not operate normally, continue with hydraulic inspection.

Electronic inspection.

Connect a voltmeter to the cable connector of the valve section that is not operating. This will allow you to measure supply and signal voltage when the joystick is operated.

Main, Secondary, and Swivel Valves – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 75% of supply voltage in B direction, down to 25% of supply voltage in A direction. Signal voltage should change smoothly with lever movement.

Pin #1 – Supply Voltage

Pin #2 – Signal Voltage

Pin #and – around

Deck Roll Valve or Float Valve – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 65% of supply voltage in B direction, down to 35% of supply voltage in A direction. Signal voltage should change smoothly with lever movement. Signal voltage should be approximately 75% of supply voltage when float switch is operated.

Pin #1 – Supply Voltage

Pin #2 – Signal Voltage

Pin #gnd – ground

Shield Valve or On/Off Valve – Voltage on pin #1 should be equal to supply voltage when switch is operated in A direction. Voltage on pin #2 should be equal to supply voltage when switch is operated in B direction.

Pin #1 – Signal Voltage

Pin #2 – Signal Voltage

Pin #gnd – ground

If none of the valve will operate with electrical signal, verify that there is oil pressure at the valve inlet. Electrical Valves must have pilot supply oil to move the spools.

Possible electronic problems.

Open circuit (broken wire, bad connection or loose connection in switch box). Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

TROUBLESHOOTING

Hydraulic inspection.

Install 3 pressure gauges, on the valve inlet (use M port, or tee into hose supplying oil from the pump to the inlet), on the workport that is not operating, and on the LS port.

With the spools in Neutral

Gear pump – P should be approximately 200 psi, LS = 0, workport – pressure on cylinder or function.

LS pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Gear pump – P should be approximately 200 psi higher than LS, LS should equal workport, workport – pressure on cylinder or function.

LS pump – P should be LS + standby, LS should equal workport, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport, workport – pressure on cylinder or function.

Operate one spool, measure pressures with function at end of travel or stop

Gear pump – P should equal valve relief setting or workport shock valve setting. LS should equal workport. Workport should equal relief setting or workport shock valve setting.

LS pump – P should equal valve relief setting, pump max pressure setting, or workport shock valve setting. LS should equal workport. Workport should equal relief setting, pump max pressure setting, or workport shock valve setting.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport. Workport should equal pump standby pressure or workport shock valve setting.

Operate more than one spool.

Gear pump – P should approximately 200 psi higher than LS. LS should equal highest workport pressure. Workport – pressure on cylinder or function. LS pump – P should be LS + standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function. Pressure Comp pump. P should equal pump standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

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CLEAN CUTTER HEAD
CLEAN CUTTER SECTION
Bengal Boom Common Section 6 - 73

ASSEMBLY - CLEAN CUTTER

CAUTION!



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



WARNING: The blade alone weighs approximately 145 lbs. Be sure its weight can be supported before attempting to replace. The use of a lift mechanism will ease replacement.

CLEAN CUTTER BLADE MOUNTING

The CLEAN CUTTER blade was designed for installation onto a standard TRB50 spindle. It is equipped with replaceable carbide tipped teeth. Carbide is very hard, it will chip or break on inpact. Handle the saw blade with care. **DO NOT** roll saw on any hard surface or allow it to strike a hard object. Set it down on a piece of belting or wood to avoid damaging carbide tips. Install two temperary(2) threaded studs into (2) opposite holes in the spindle. Align the bolt holes in adapter (part number 33875) with the studs and slide adapter over studs, be sure to index adaper so as the protruding 2 7/8" diameter pilot on the adapter faces outward away from spindle. Then slide the saw blade (part number 33874) over the studs and onto the 2 7/8" diameter pilot of the adapter . NOTE: Orient blade for clockwise rot ation (blade rotates clockwise when looking down on top of mower deck). Then slide the collar (part number 33876) over the studs with the chamfered edge of collar to the outside, be sure the counterbore bolt holes face outward. Apply Loctite "271" to the threads of the 5/8-18 x 3" UNF Grade 8 bolts (part number 33877), and install lock washers (part number 21992) onto the bolts, then install bolts through collar, blade, and adapter into the spindle. Remove the threaded studs, and replace with bolts and lockwashers. Torque bolts in an alternating p attern to 184 Ft-lbs.

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)



OPERATION - CLEAN CUTTER

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 understood the manuals prior to operation. (SG-4)



OPERATING INSTRUCTIONS

Inspect clean cutter saw before each use. Re-torque spindle bolts to 204 Ft-lbs. Inspect blade around collar and near the teeth for bends and cracks. Check for loose, broken, chipped, dull of missing teeth. Tighten all loose teeth by hammering and or replacing rivets. If teeth are broken, chipped, or missing or if blade is cracked or becomes bent remove blade and have it rep_aired at an approved service center. Call Tiger Service Department for replacement parts and service.

The TRB50 Clean Cutter is intended for clean cutting trees and brush up to six (6) inches in diameter maximum. Turn mower "ON" while tractor is running at idle RPM. Then increase tractor speed to 1,950 RPM maximum. Note, this tractor engine speed produces a mower speed of 1,500 RPM. **DO NOT operate the clean cutter mower at speeds in exess of 1,500 RPM.** If saw blade wobbles in exess of two (2) inches while tractor is idling, **STOP**, remove the blade and have it rep_aired an an approved service center. Call Tiger Service Department for replacement p arts and service.

Allow saw to accelerate to maximum speed before moving into foliage. Advance mower head smoothly in foliage. Allow saw to cut through material, do not force or over feed. If saw slows excessively, move the head out of the foliage, and allow the saw to achieve maximum speed. **DO NOT** move up or down or roll mower head while cutting through heavy foliage. **DO NOT** use clean cutter mower on the ground. The saw blade is equipped with carbide tip s, which are very hard. S triking rocks, steel, concerte, or other similar debris will break these tips.

Badly worn teeth increase stress to the saw blade and require more horsepower to cut than sharp teeth. Set-up a scheduled maintenance program for the saw before the teeth are dull. The saw will last longer, product a better cut, cut large diameter foliage without binding, and will cost less to operate.

Check adapter and collar every time saw is changed, maintain the .004 inch taper on face (surface against the saw blade) of these two (2) items. Always clean adapter and collar before mounting the blade. If adapter or collars are worn or damaged, they must be replaced.

Familiarize yourself with the machines operation and correct operating safety precautions.

OPERATION - CLEAN CUTTER

Excessive wobble will generate heat in the blade, rapidly accelerating

WARNING!



the loss of tension. The overheated blade will then rub against the foliage as it is cutting, again increasing the heat in the blade and intensifying the wobble. The blade may then weaken, crack and eventually fail. NEVER RUN A BLADE THAT IS CRACKED OF BENT.

DANGER!



Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation.

(SBM-7)

WARNING!



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



DANGER!



Never operate the Tractor and Mower Unit without an OPS (Operators Protective Structure) or Cab to prevent injury from objects thrown from ground or from overhead trimming. Stop mowing if workers or passersby are with in 100 yards.(SBM-9)



WARNING



CAUTION: Never leave the key in the ignition switch. Also personal injury or death can occur from sudden dropping or inadvertent operation of the controls. Make cert ain the area is clear before lowering or raising the deck.

MAINTENANCE - CLEAN CUTTER

MAINTENANCE INSTRUCTIONS

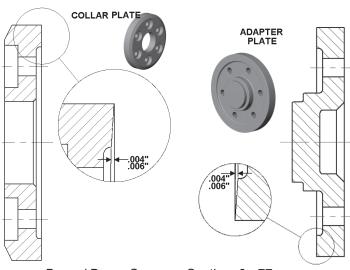
Inspect clean cutter saw before each use. Re-torque spindle bolts in an alternating pattern to 204 ft-lbs. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose tooth assemblies by hammer and or replacing rivets. If teeth tips are broken, chipped, or missing, replace tip or replace entire tooth assembly **NEVER RUN SAW BLADE WITH MISSING TOOTH ASSEMBLY.** If saw blade is cracked, becomes bent or wobbles in excess of two (2) inches while the tractor is idling, **STOP**, remove blade and have it repaired at an approved service center. Call Tiger Service Department for replacement parts and service.

These saw blades are pre-tensioned after the tooth assemblies are riveted in place. This pre-tensioning ensures that the blade runs true and remains true under normal cutting load. Removal of more than one or two complete tooth assemblies at a time may effect the tensioning of the blade. Before cutting always check for wobble while machine is running at idle. If blade wobbles in excess of two (2) inches, **STOP**, remove blade and have it repaired at an approved service center. The teeth tips can be replaced without removing the tooth bodies from the saw blade (see TIP REPLACEMENT PROCEDURE). This method is preferred over the entire removal of tooth assemblies.

Check adapter and collar every time saw is changed, maintain the .004 to .006 inch taper (see figure below) on inside face (surface against saw blade) of these two (2) items. Always clean inside face of adapter and collar before mounting the blade. If adapter or collars are worn, chipped, or damaged, they must be replaced.

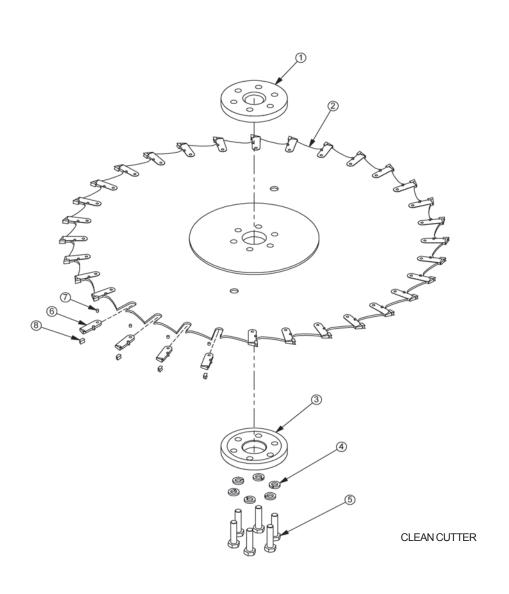
Any saw blade (regardless of condition) that has seen regular use should be serviced at least once a year at an approved service center

Spare saw blades should be stored in a dry environment and transported only on the wooden crates that are supplied with the saw blade.



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CLEAN CUTTER BLADE AND TEETH PARTS



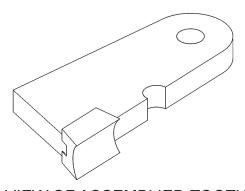
ITEM	PART NO.	QTY.	DESCRIPTION
1	06420024	1	ADAPTER,SAW,TRB50,RNFRCD
2	06520224	1	BLADE, 48" SAW WITH TEETH
3	06420037	1	COLLAR,SAW,TRB50,RNFRCD
4	33764	6	FLATWASHER,5/8,GR 8,SAE
5	06530209	6	CAPSCREW,5/8 x 3 3/4 NF, GR 8
6	06520225	30	TOOTH WITH RIVET, SAW BLADE
7	34703	30	TOOTH RIVET, SAW BLADE
8	34702	30	TOOTH TIP, SAW, CARBIDE
*	34705	AVAIL	SHARPENING TOOL (NOT SHOWN)
*	34704	AVAIL	RIVET REMOVER TOÒL (NOT SHOWN)

(UPDATED NOVEMBER '07)

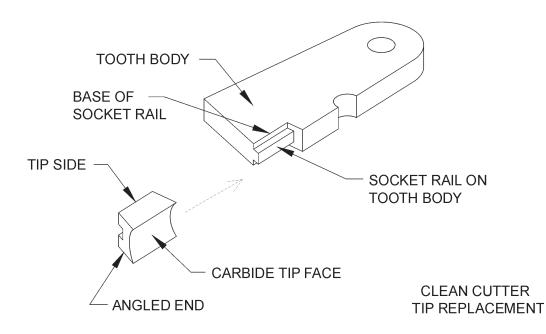
TIP REPLACEMENT PROCEDURE

CARBIDE TIP REPLACEMENT

- 1. Heat face of tip to **dull orange**, remove tip, then brush tooth body clean of all debris (carbon).
- 2. Apply acetone to socket rail on tooth body and allow it to evaporate. Dab on soldering paste (black flux) to socket rail of tooth body and slide pre-tinned tip into place.
- 3. Then heat tip sides and base of socket rail to ensure silver solder flows completely around base of tip. Grasp tip with tweezers and gently twist tip back and forth to ensure complete bonding of silver solder
- 4. Discontinue heat, and allow to cool. Then check braze by gently tapping tip with rubber mallet.

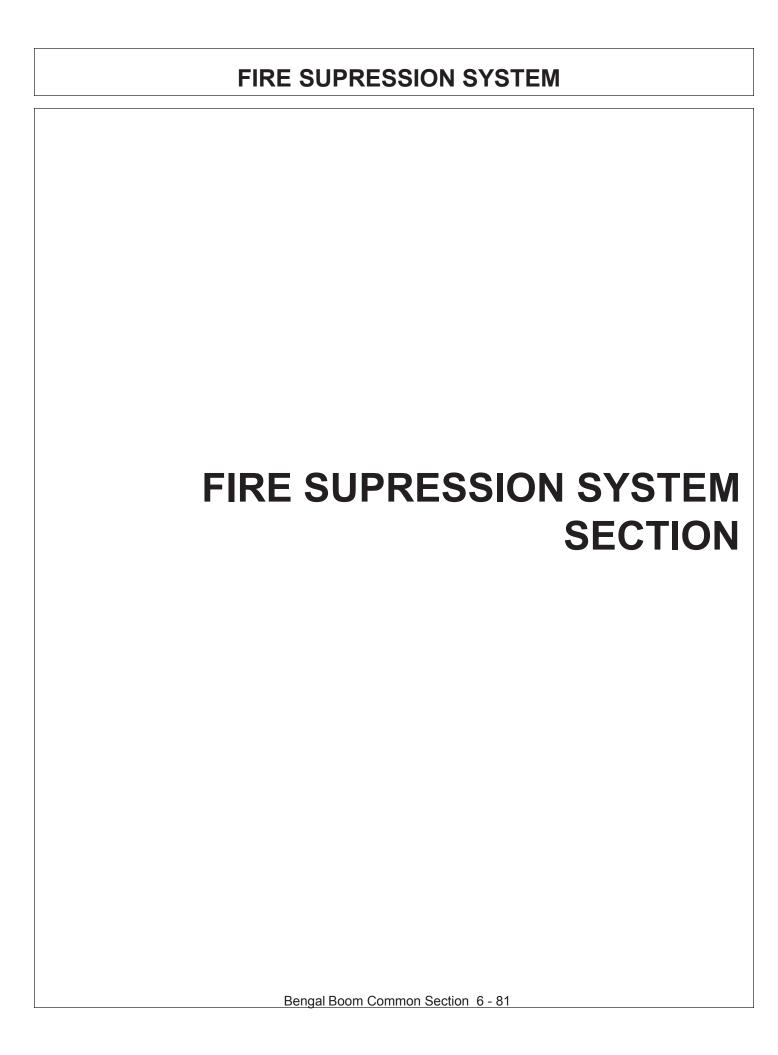


VIEW OF ASSEMBLIED TOOTH

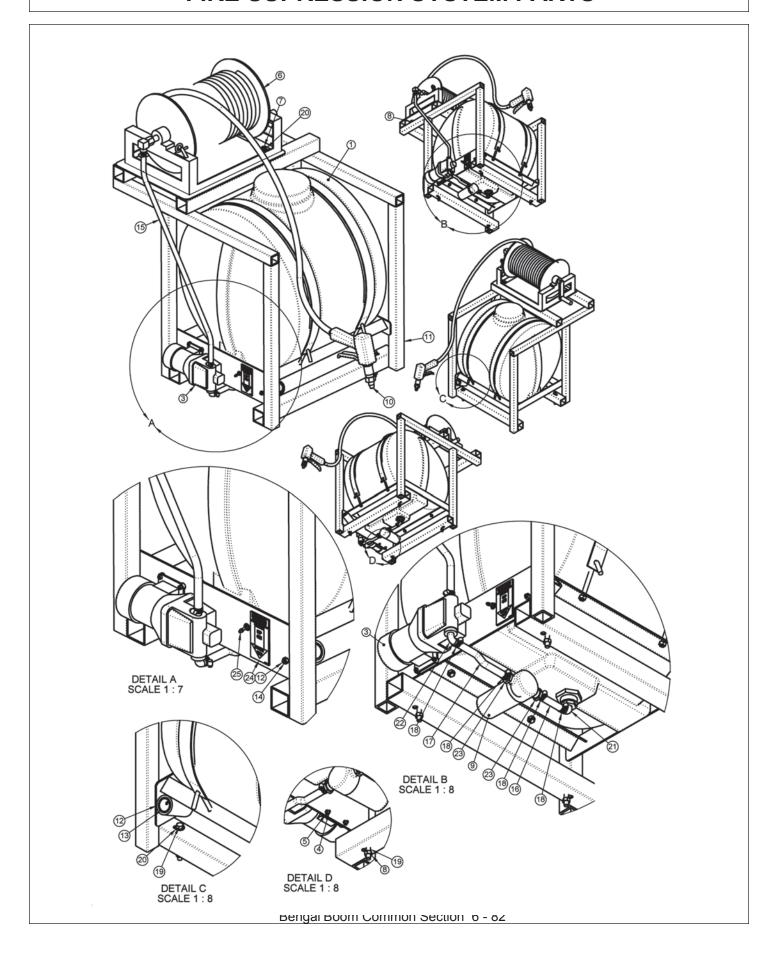


Bengal Boom Common Section 6 - 79





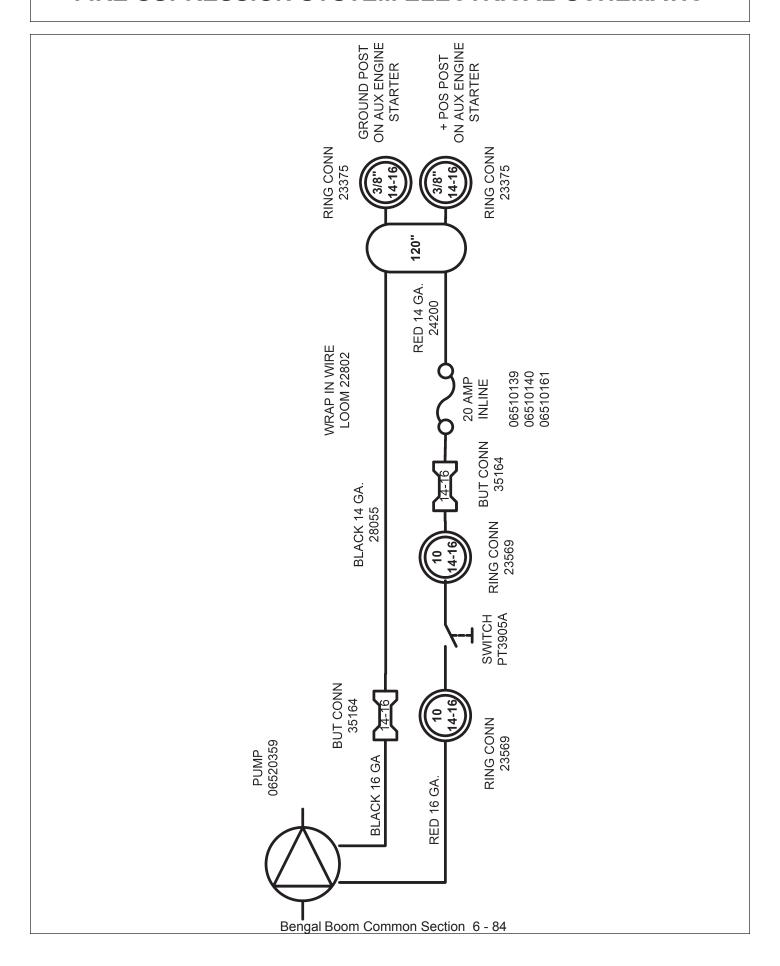
FIRE SUPRESSION SYSTEM PARTS

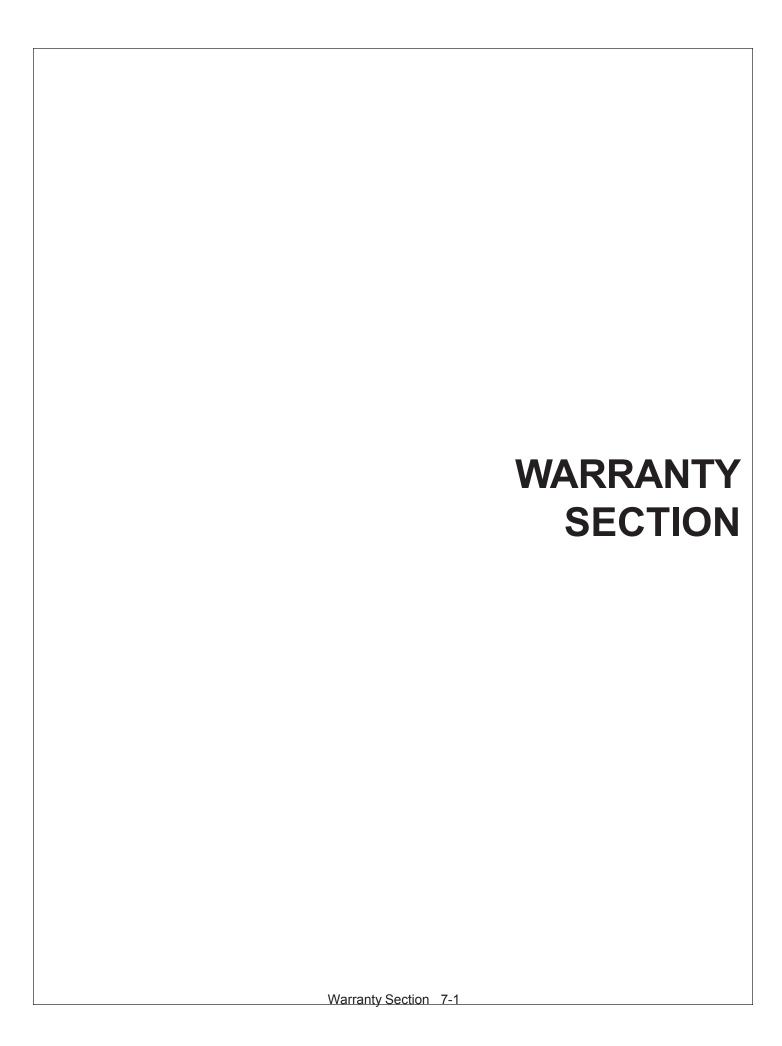


FIRE SUPRESSION SYSTEM PARTS

ITEM	P/N	QTY.	DESCRIPTION
1	06520357	1	TANK, FIRE SUPRESS SYS, RAILKUT
2	06520358	1	MNT,TANK,FIRE KIT,RAILKUT
3	06520359	1	PUMP, FIRE SUPRESS SYS, RAILKUT
4	6T2181	4	CAPSCREW,SKT HD,10/24 X 3/4
5	24890	4	HEX NUT, 10-24 NYLOCK
6	06520360	1	HOSE REEL, FIRE KIT, RAILKUT
7	21630	4	CAPSCREW, 3/8 x 1,NC
8	21627	8	NYLOCK NUT,3/8",NC
9	06520361	1	FILTER,FIRE KIT,RAILKUT
10	06520366	1	GUN,FIRE KIT,RAILKUT
11	06370120	1	STAND,FIRESYS,RAILKUT
12	06370121	1	HOLSTER,FIRESYS,RAILKUT
13	06430090	1	SLEEVE,GUN,FIRE SYS
14	21525	1	HEX NUT, 1/4" NC
15	06520380 - A	1	HOSE,.88O.D.x.50I.D.,BULK
16	06520380 - B	1	HOSE,.88O.D.x.50I.D.,BULK
17	06520380 - C	1	HOSE,.88O.D.x.50I.D.,BULK
18	35091	6	CLAMP, HOSE #10
19	21640	4	CAPSCREW,3/8" X 3-1/2" NC
20	22016	8	FLATWASHER,3/8"
21	06520367	1	ELBOW,3/4COUPLERx1/2BARB,NYLON
22	06520368	1	ELBOW,3/4COUPLERx1/2BARB,NYLON
23	06503108	2	ADAPTER,BARB,1/2x1/2MP
24	6T3222	1	DECAL, CONTROL, ON-OFF SWITCH
25	PT3905A	1	SWITCH,MOWER
-	06520364	1	FILTER SEAL
_	06520365	1	FILTER ELEMENT

FIRE SUPRESSION SYSTEM ELECTRICAL SCHEMATIC





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 eficiently 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

