

BENGAL BOOM W/ BUMPER TANK

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Tiger Corporation

HH€FÁÞÈÁŠ[~ã^ÁÐÇ^È Ùã ~¢ÁØæ∮•ÊÁÙÖÁÁ Ï F€Ï 1-800-843-6849 1-605-336-7900 www.tiger-mowers.com ⊚Á²A¹ÁÔ[:][:æã}}

TO THE OWNER / OPERATOR / DEALER

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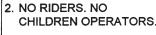
BEFORE YOU START!! Ü^æåÁs@Á;æ^ĉÁ; ^••æ*^•Á;}Ás@Á;]|^{ ^}oÁæ;åÁ;@;}ÁŞÁs@á;æ*á;æ;*æ\È Uà•^¦ç^Ás@Á;|^•Á;Æ^ĉÁæ;åÁ•^Á&;{ { [}Á^}•^Â

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.







3. USE SAFETY SHOES. HARD HAT, SAFETY GLASSES, SEAT BELTS, **ROPS & OPS**





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



6. USE SMV. LIGHTS. & REFLECTORS.



7. DO NOT OPERATE WITH CUTTER OR WING RAISED.



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



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

FORWARD

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

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

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

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

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

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

• Machine model	
Serial number _	
Dealer name	

• Detailed information about the problem including results of troubleshooting

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

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

MANUFACTURED BY:	DISTRIBUTED BY:
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1-800-843-6849	1
1-605-336-7900	
www.tiger-mowers.com	

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

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

Tiger is a registered trademark.



SAFETY	
	SAFETY
	SECTION
Rengal Room 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, WILL result in DEATH OR VERY SERIOUS INJURY.



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



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



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

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

<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. $_{\rm (SG-6)}$



WARNING!



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



WARNING!



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

DANGER!



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

ENGINE PTO

STOP

DANGER!



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

(SG-10)



DANGER!



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

(SG-11)



WARNING!



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

12)



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. $_{\rm (SG-15)}$



WARNING!



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

(SG-16)







CAUTION!



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



WARNING!



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



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

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

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



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

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. (SG-19)

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.

DANGER!



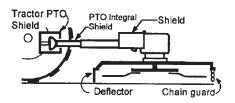
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care 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 moving immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-5)



WARNING!



Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect the cutting area for such objects before mowing. Remove any like object from the site. Never allow the cutting blades to contact such items. (SGM-6)

WARNING!



Mow at the speed that you can safely operate and control the tractor and mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. (SGM-7)

WARNING!



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

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.



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-11)

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. (SBM-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 raised the center of gravity for the tractor and has increased the possibility of overturn. Turn 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 passers by 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 mounting instructions 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 Tractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the Tractor 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.
 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 HYDRAULIC TANK



00725746 INSIDE OF CAB

THROWN OBJECTS

CUTTING BLADES





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 HYDRAULIC TANK

A DANGER

CUTTING BLADES





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.

HYDRAULIC TANK



03200285 OUTSIDE OF CAB

02971123

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



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 HYDRAULIC TANK

TO AVERT THROWN OBJECTS, CUTTER SHAFT MUST TURN IN THIS DIRECTION 42350

42350 MOWER DECK

Bengal Boom Safety Section 1-16

ATTENTION

SERVICE HYDRAULIC SYSTEM WITH UNIVERSAL TRACTOR HYDRAULIC OIL.

32708

PART NO. LOCATION

32708 HYDRAULIC TANK

A CAUTION

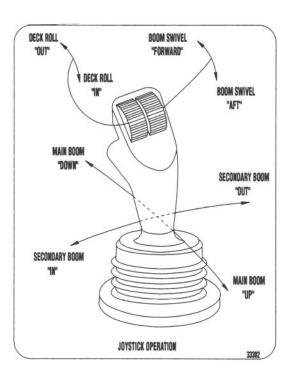
For your safety and to guarantee optimum product reliability, always use genuine TIGER replacement parts. The use of inferior "will-fit" parts will void warranty of your TIGER implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions 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 tractor. 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. Never approach rotating elements. Test on proceeding declaration in "Park", set parking brake, shut off engine, and remove key and wait until all rotating motion has stopped before leaving seat. 0 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

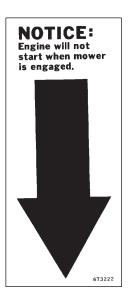


LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. WITH MOWER AND TRACTOR OFF, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING.

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.

 1. 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 HYDRAULIC TANK

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



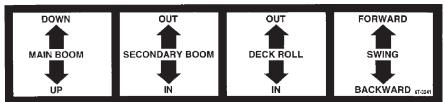
6T3236 MOWER DECK

Bengal Boom Safety Section 1-21



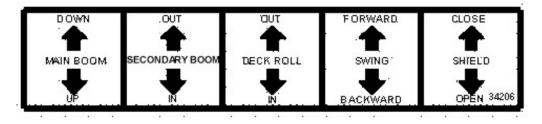
WHEN CUTTING HEAVY BRUSH, BLADE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 600 FT. LBS. PART NO. LOCATION 6T3237 INSIDE OF CAB

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.

67-2243

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.

5T3281

6T3261 MOWER DECK



TB1011 MOWER DECK

0



0

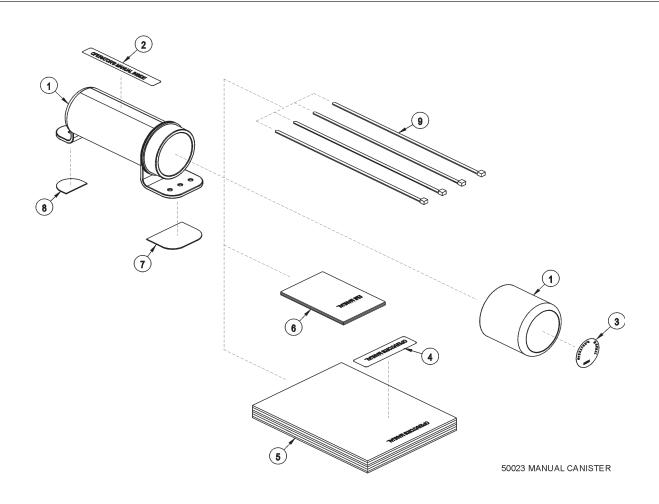
Tiger Corporation

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

34852 HYDRAULIC TANK

Tiger PN 34852 O



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	ZIP TIE 14" LONG

NOTE:

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

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 this Act which are applicable to his own actions and conduct.

OSHA Regulations

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

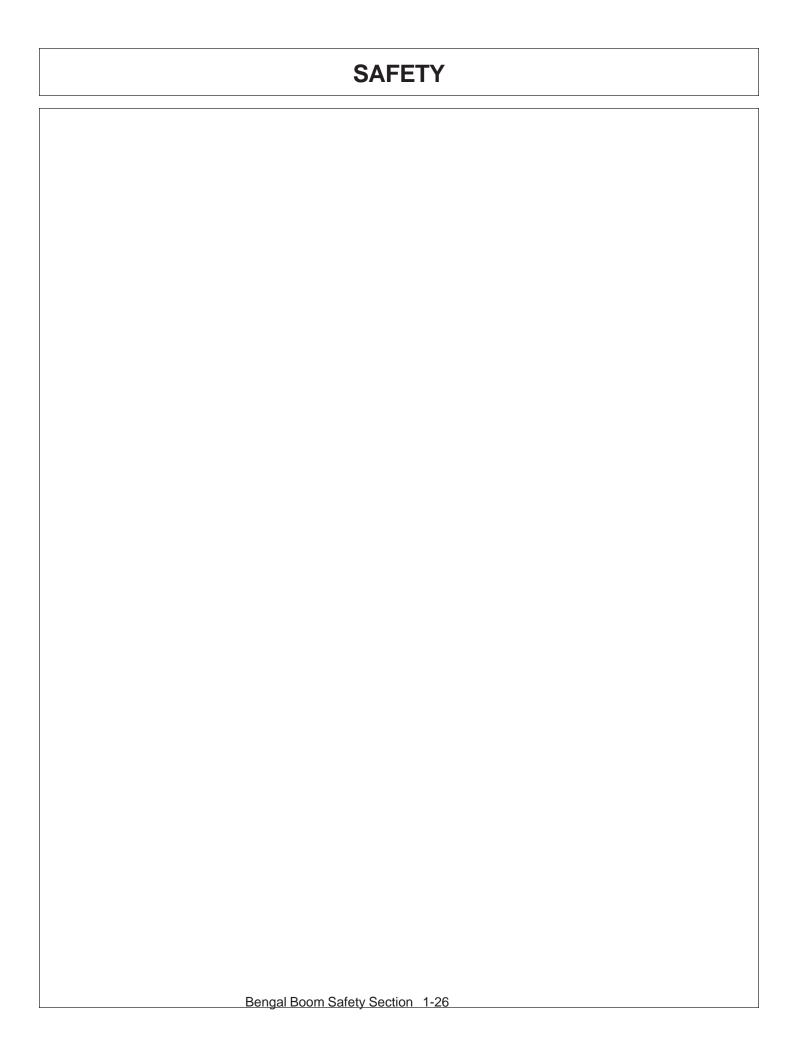
Employer Responsibilities:

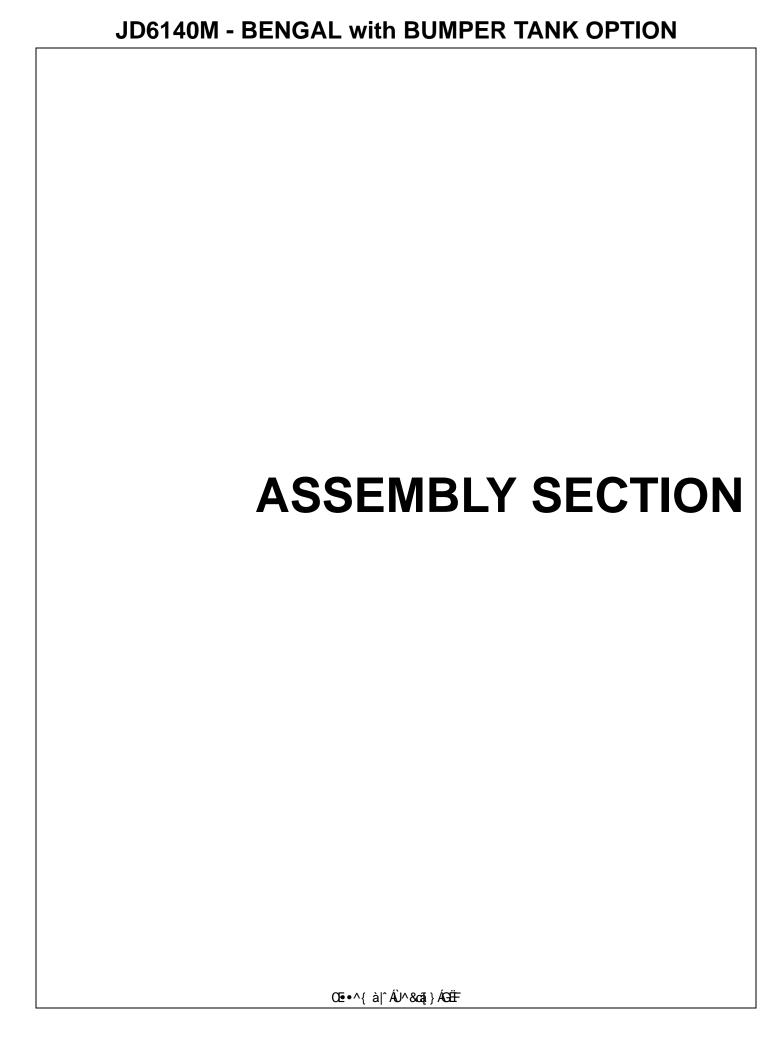
To ensure employee safety during Tractor and Implement operation, it is the employer's responsibility to:

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

Child Labor Under 16 Years of Age

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





ASSEMBLY

Before attempting to mount your Tiger mower, it is important to read and understand all of the safety messages in the Safety Section of this manual.

≜WARNING

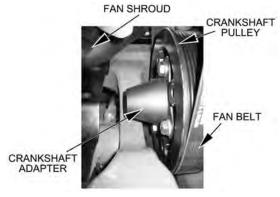
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TRACTOR PREPARATION

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 (ASM-JD-0001)

CRANKSHAFT ADAPTER



ASSEMBLY

FRONT CRANKSHAFT PULLEY

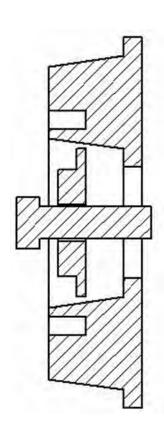
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PARTS REQUIRED TO PURCHASE FROM JOHN DEERE:

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Solution:

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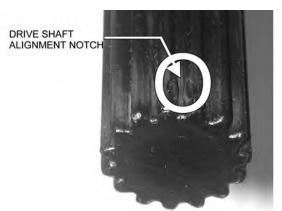
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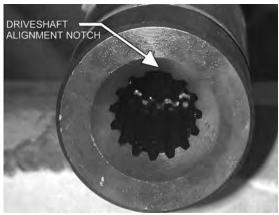
(ASM-JD-0080)

ASSEMBLY

DRIVESHAFT AND FRONT PUMP MOUNTING

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-JD-0007)

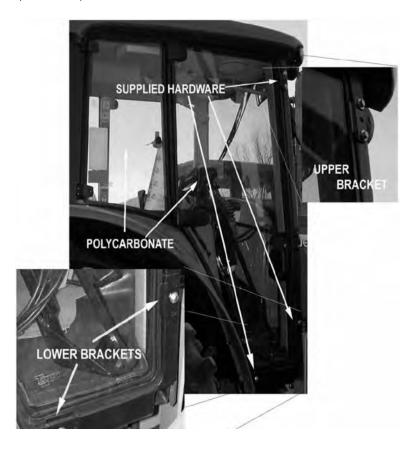




ADJUSTING REAR WHEELS

POLYCARBONATE SAFETY WINDOW

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 mainframe.



PANORAMIC POLYCARBONATE SAFETY WINDOW

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 mainframe. John Deere R series tractors require a panoramic safety window.Á

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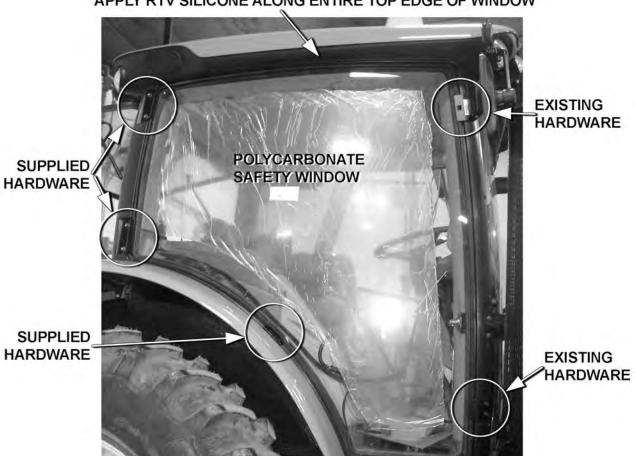
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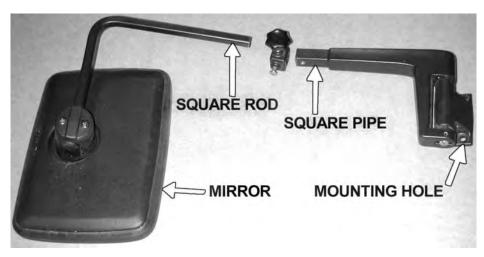
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APPLY RTV SILICONE ALONG ENTIRE TOP EDGE OF WINDOW



SIDE MIRROR MOUNTING





MAINFRAME INSTALLATION

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SWITCHBOX WIRING

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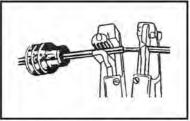
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WEATHER-PACK / METRI-PACK ASSEMBLY

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

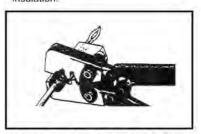
(ASM-C-0009)



1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



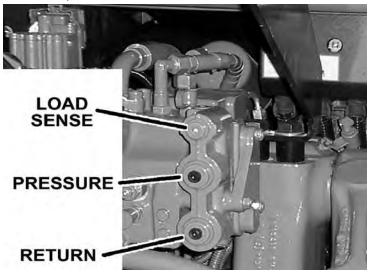
3. Put terminal in crimping tool, then position wire and seal in place.



4. Crimp and visually inspect for a good crimp before installing in connector body.

HYDRAULIC PORTS

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PRESSURE LINE INSTALLATION

RETURN LINE INSTALLATION

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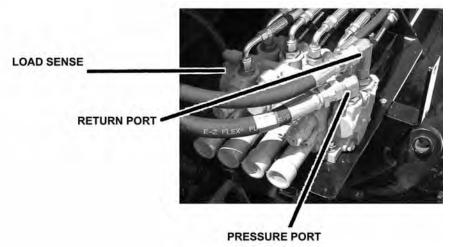
LOAD SENSE LINE INSTALLATION

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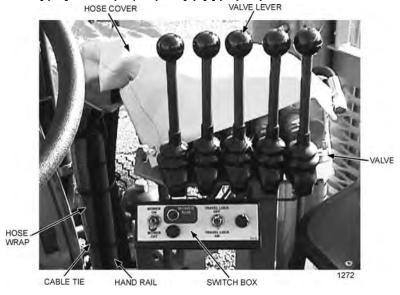
MANUAL LIFT VALVE PORTS

ÁASM-C-0057)



MANUAL SWITCHBOX MOUNTING

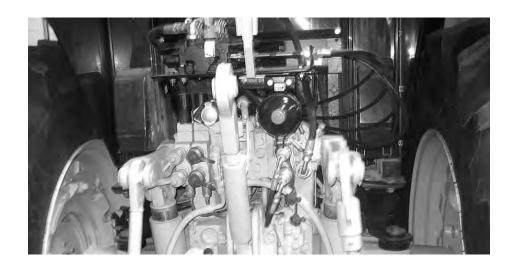
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(ASM-C-0053)

VALVE MOUNTING

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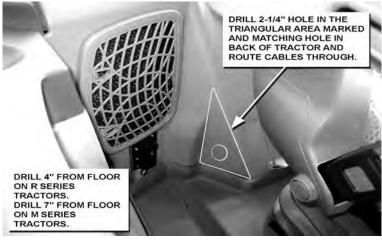


CABLE CONTROL LEVER STAND

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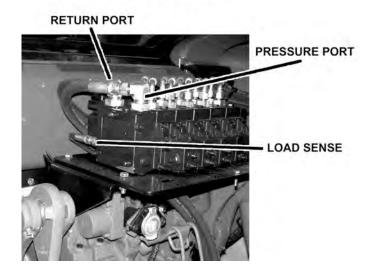
NOTE ON HUSCO CONTROL VALVES



ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)Á

DANFOSS VALVE



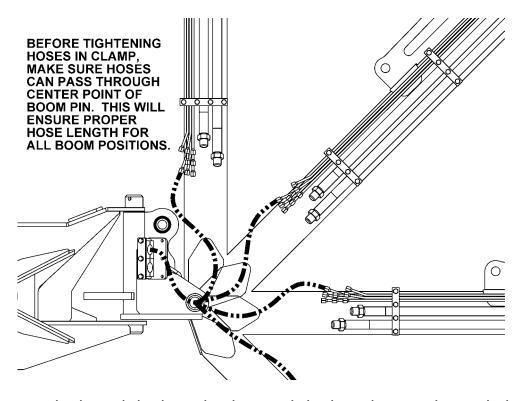
REAR STOW BENGAL HOSE ROUTING

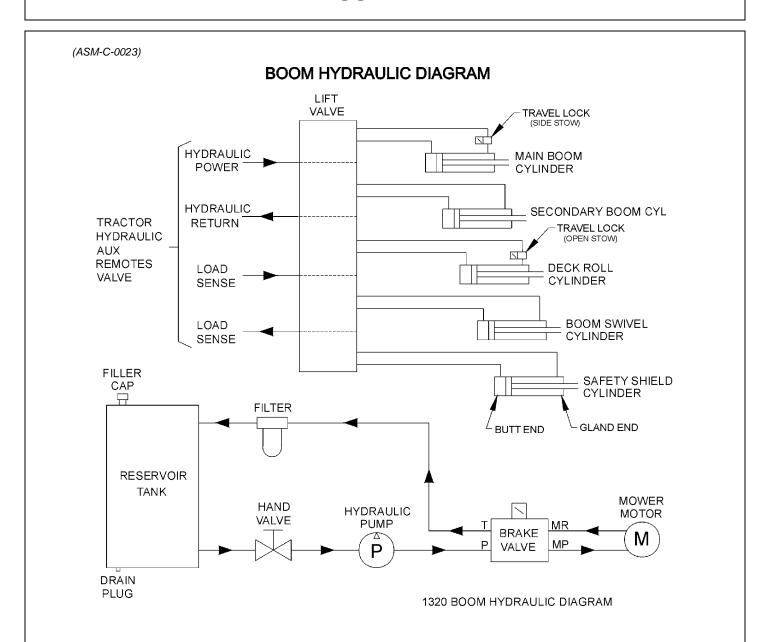
WARNING NOTE:ÁV@Á•ˇåå^}Á¦^|^æ•^Á;Á@妿ĕ |æ& Á]¦^••ˇ¦^Á&[ˇ|åÁ&æੱ•^ÁœÁ* åå^}
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•ˇ!^Ác@Á@•^•Æ[¼;[o¼ ¾ &@¼;¦Árd^c&@ÆæÁa[[{ Á; [ç^•ĒÁT^æˇ!^ÁVY ΦÔÒÆ&@&\ÁVY ΦÔÒÆ&@}]![8^^åÁ ãæÆæ æ]}È



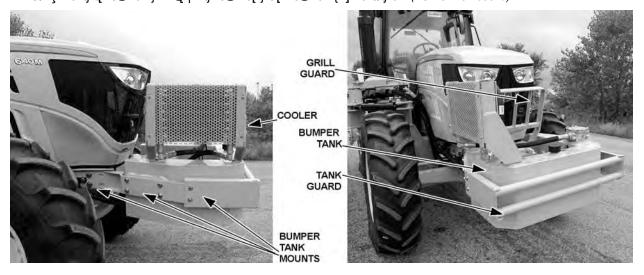


REAR STOW BENGAL HOSE ROUTING (CONT.)





HYDRAULIC TANK INSTALLATION



FILLING HYDRAULIC RESERVOIR

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

(ASM-C-0004hydro resrv)

INSTALLING O-RING FITTINGS

INSTALLING NATIONAL PIPE FITTINGS



PREFORMED TUBE INSTALLATION

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GENERAL HOSE INSTALLATION

HOSE COVERING

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ACCUMULATOR INSTALLATION

SOLENOID BRAKE VALVE

TEMPERATURE GAUGE MOUNTING QUÚVOU ÞOSŠD



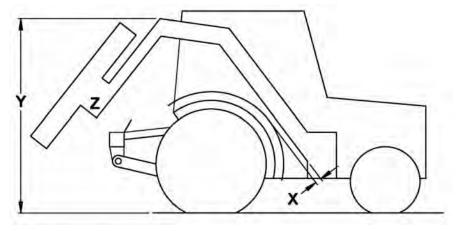
DECK ATTACHMENT

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3-POINT BOOMREST MOUNTING

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(ASM-C-0054)

MAIN BOOM INSTALLATION

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c@ ÁÚælo•ÁÙ^&cãi}È

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GREASE HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED. AND AGAIN AT REST WITH BOOM SUPPORTED. MASM-C-0013)



FINAL PREPARATION FOR OPERATION

≜WARNING

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BE SURE THE BALL VALVES ARE OPEN! Ù cæb \acute{a} \acute{a} \acute{a} \acute{a} \acute{a} \acute{b} \acute{b} \acute{a} \acute{b} \acute{a} \acute{b} \acute{a} \acute{b} $\acute{$

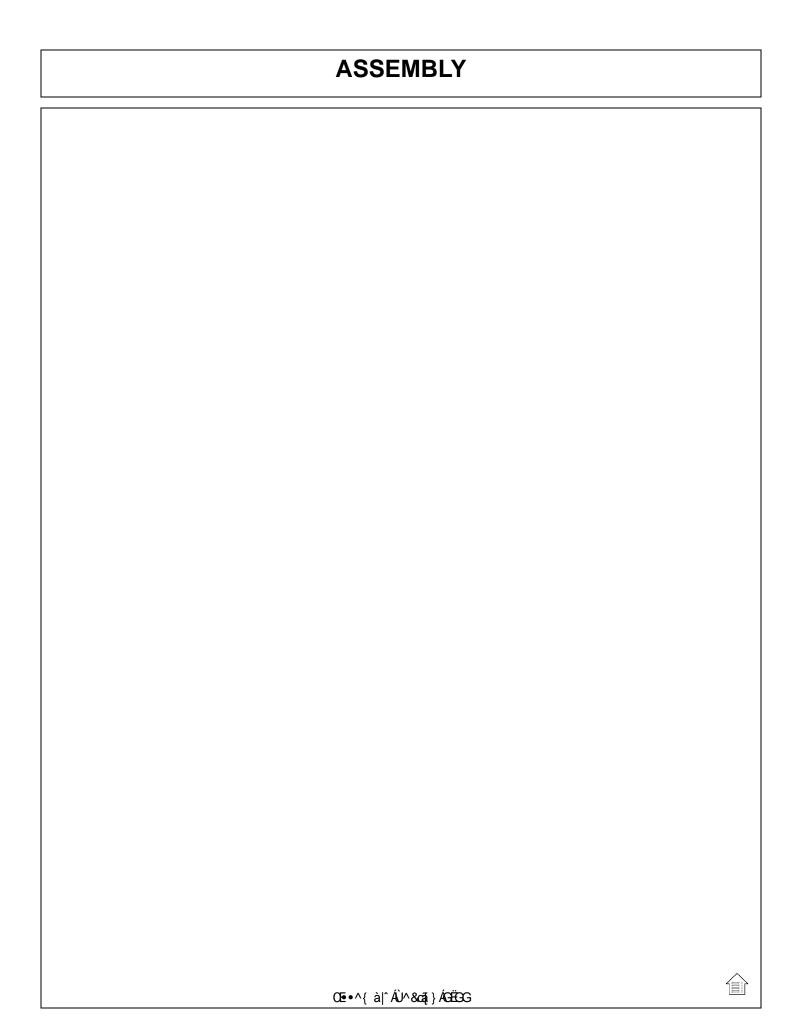
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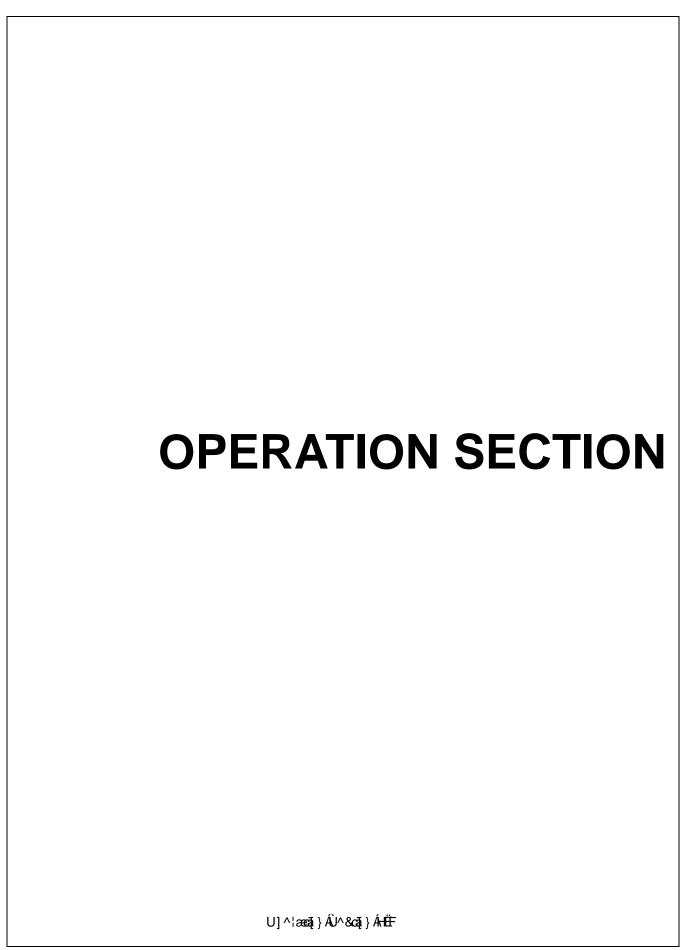
MOWER TESTING

 $\label{eq:continuous_continuous$

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







TIGER TV BOOM MOWER OPERATING INSTRUCTIONS

Vã^¦ÁVXÁÓ[[{ • Áæ\^Á; æ) ˇæ&c ¡^åÁ¸ ãœÁ`æác Á; ææ^¦ãæÁs^Á•\āļ^åÁ¸ [¦\^¦• ĚÁV@ÁVXÁÓ[[{ Áæs Áå^• ā}^åÁ; æææ&æÁs Á•\āļ^åÁ¸ [¦\^¦• ÈÁV@ÁVXÁÓ[[{ Áæs Áå^• ā}^åÁ; ææææ&æÁs Á•\āj\åḠ[i\^¦• ÈÁV@ÁVXÁÓ[[{ Áæs Áå^• åÅ}• āææá]}• ÈÁV@ æææ&æÁs Áææå• Áæb^ÁYˇ ¾] ^åÁ¸ ãææÁæ→c Á¸ æð}¾ *Áå^&æþ Éĸ [co&æã¸^Áå^↓^&sē]• ÉÞ•æØå åÆ; coæ¦Á•æ^c ~æč ¦^• Áṭ Á¡ [çãã^Á;]^¦æṭ ¦Áæð¸ åÁjæ••^¦àˆÁ¸ [co&æã¸ ĚÁQ¸ ^ç^¦ÉÞ¸ [Áæðà]å ÆæÁs ÆF€Ã Áæ&& ¦ææÈÁCSŠÁæ æ°c ^` ¾ { ^}œÁs åÁæ°c Á¸ æð}¾ *Áå^&æþ Á; ˇ•œÁs^Á; æð ææð ^åÁ¸ ÁææÁs Á† [åÁs] ^!ææã} æðÆ[}åæás] ÁææÁæ|Áæã ^• È

READ AND UNDERSTAND THE ENTIRE OPERATING INSTRUCTIONS AND SAFETY SECTION OF THIS MANUAL AND THE TRACTOR MANUAL BEFORE ATTEMPTING TO USE THE TRACTOR AND IMPLEMENT. $Q^{A}[\dot{A}_{a}] \dot{A}_{b}[\dot{A}_{a}] \dot{A}_{b}[\dot{A}] \dot{$

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A PELIGRO

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1.OPERATOR REQUIREMENTS

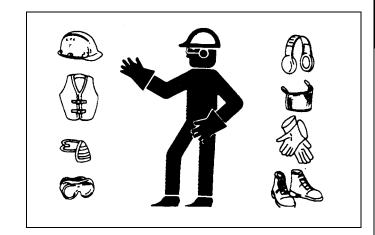
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^``ã]{ ^}cÁæfÁ[-Ák@á*AchiAce*á]|^cÁs[]|^c¢\f^A;å^i•q[[åÉÆK]}•`jcÁæ]Áæ;Áæ;ÁæjåÁh,áæfK[{]|^c¢Aó;[]æjææā]}È

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PERSONAL PROTECTIVE EQUIPMENT (PPE)

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2.TRACTOR REQUIREMENTS

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Tractor Requirements and Capabilities

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2.1 ROPS and Seat Belt

AWARNING

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2.2 Operator Thrown Object Protection

OPS-B- 0001



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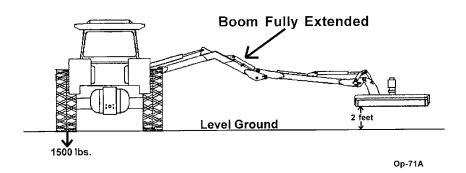
2.3 Tractor Lighting and SMV Emblem

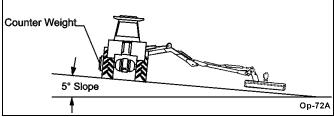
OPS-B- 0017Á



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2.4 Tractor Ballast





3.GETTING ON AND OFF THE TRACTOR

AWARNING

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3.1 Boarding the Tractor

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AWARNING

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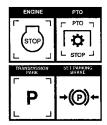
3.2 Dismounting the Tractor

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4.STARTING THE TRACTOR

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- ‴Š[&æe^Ás@^Áai[[{Á[]^¦æeā]*Á&[}d[|•ÁQQî^•œã&\Á[¦Áçæqc,^Áaæ)\D

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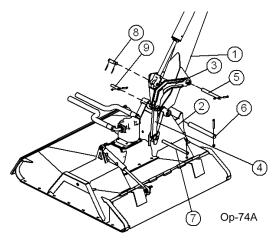


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5.PRE-OPERATION INSPECTION AND SERVICE

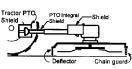
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5.1 Tractor Pre-Operation Inspection/Service

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5.2 Boom Unit Pre-Operation Inspection and Service

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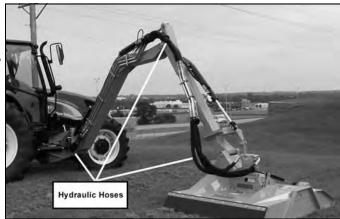
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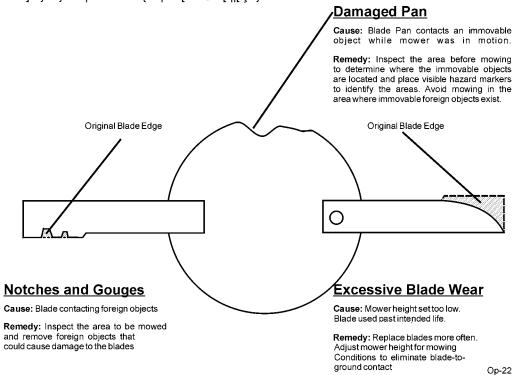


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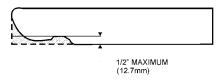
5.3 Cutting Component Inspection

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Original Blade Edge

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

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Boom PRE-OPERATION Inspection		
Mower ID#	Make	
Date:	Shift	
AWARNING Before conducting the inspection, make stopped and the tractor is in park with mower is resting on the ground or securibeen relieved.	n the parking brake	engaged. Make sure
Table 1:		
Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the tractor		
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 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 boom shields are in place and in good condition		
The skid shoes are in good condition and tight		
There are no cracks or holes in boom deck		
The hydraulic motor mounting bolts are tight		
The boom head spindle housing is tight and lubricated		
Operator's Signature:		

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

Tractor PRE-OPERATION Inspection

Mower ID#	Make		
Date:	_ Shift		
 e conducting the inspection	make sure the t	ractor engine is off	all rot

▲WARNING

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

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

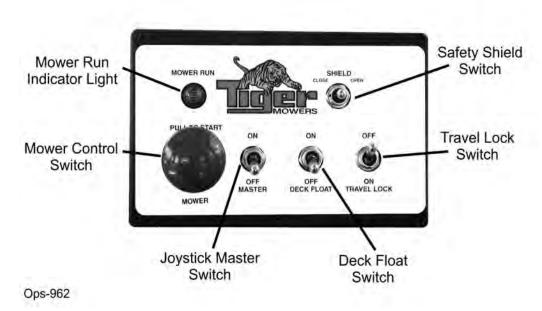
Operator's Signature:

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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6.Boom Controls

6.1 Joystick Control Main Control Switch Box



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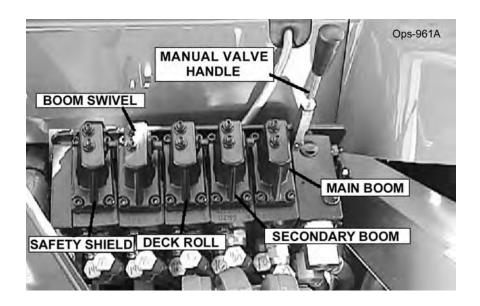
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NOTE:ÁPushing manual valves handles "out" or "away" from the tractor cab will bring the main boom "up", secondary boom "out", roll deck "out", and swivel boom "aft". Pulling manual handles toward cab will let main boom "down", bring secondary boom "in", roll deck "in", swivel boom "forward", and "close" the safety shield.



▲ CAUTION

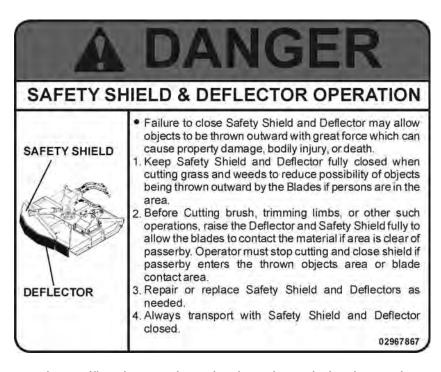
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A CAUTION

The Deck Float is to be used ONLY when the flail mower head is on the ground. The mower head CANNOT be controlled with the joystick when Deck Float is "ON".

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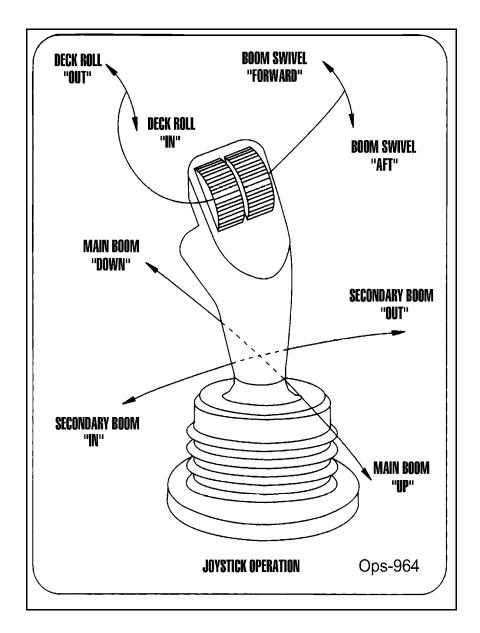
A CAUTION

NOTE: ÁThe tractor ignition switch and the Master Switch must be "ON" and the Travel Lock must be "OFF" to allow articulation of the mower deck.

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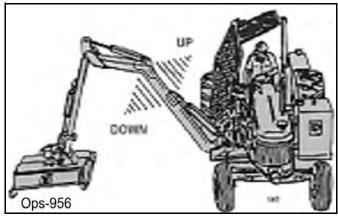
Joystick Functions



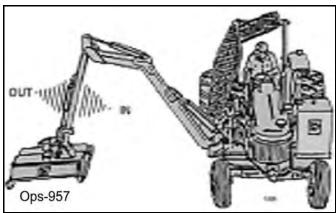
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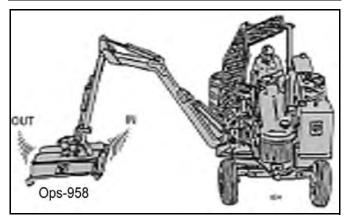
RUŸÙVÔĴSÁØY ÖĐÓ ĐĐÔSÁT UXÒÙÁT CĐĐA ÁÓ UUT



RUŸÙVÔŚŚŚÒØVĐŪÔPVÁTUXÒÙÁÙÒÔUÞ֌ܟ ÓUUT



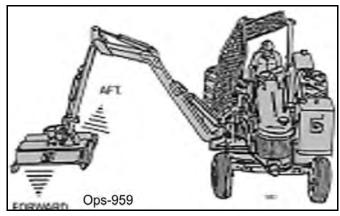
ŠÒØVÁRUŸÙVØĴSÁÜUŠŠÒÜÁT UXÒÙÁÖÒÔSÁÜUŠŠ



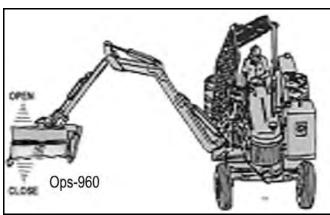
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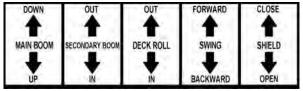
ÜŐPVÁ RUŸÙVŐDSÁÜUŠŠÒÜÁTUXÒÙ Á ÓUUT ÙY OXÒŠ



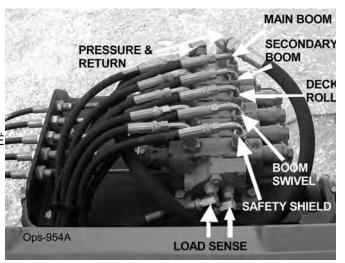
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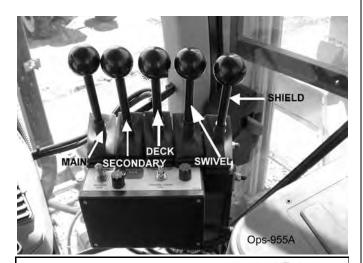


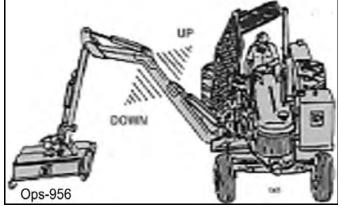
6.2 Manual Controls



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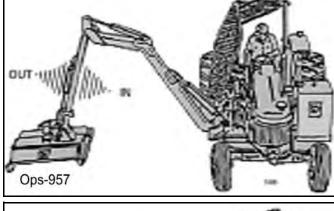
ŠÒXÒÜÂRÁT ŒÐ ÁÓUUT

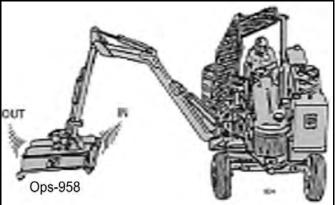
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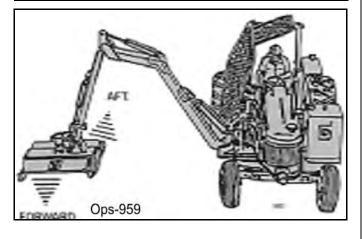
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ŠÒX Ò ÜÂ HÁ Ö Ò Ô SÁ Ü U ŠŠ



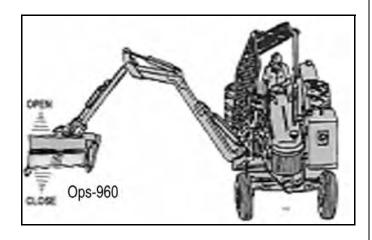




ŠÒXÒÜÂN ÁÓUUT ÁÙY QXÒŠ

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ŠÒXÒÜÂNÍ ÁÓUUT ÁÙPOÒŠÖ



7.DRIVING THE TRACTOR AND IMPLEMENT

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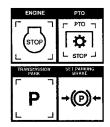


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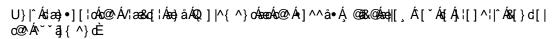
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7.1 Starting the Tractor



7.2 Brake and Differential Lock Setting

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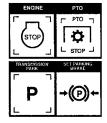
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7.3 Driving the Tractor and Boom

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8.OPERATING THE BOOM UNIT AND ATTACHED HEAD

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8.1 Foreign Debris Hazards/Overhead Obstructions

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8.2 Operating Speed and Ground Speed

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8.3 Operating the Attached Mower Heads

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8.4 Mower Operation

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8.5 50" & 60" Boom Rotary

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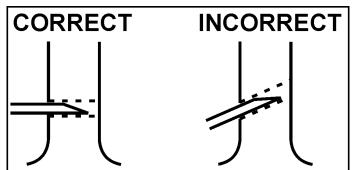
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The cutter deck should be level with the ground to reduce the work required by the cutter and tractor to minimize equipment wear and damage.

Ops-1480

(OPS-R-220)

8.6 50" Boom Flail



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8.7 63" Boom Flail

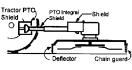
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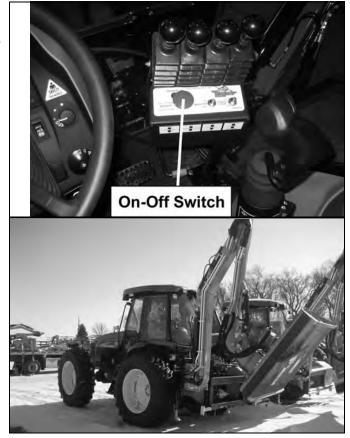
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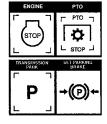
8.8 Shutting Down the Attached Head- For Standard Equipment

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9.TRACTOR, BOOM, AND ATTACHED HEAD STORAGE

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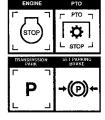
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10.TRANSPORTING THE TRACTOR AND IMPLEMENT

10.1 Transporting under the units own power

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10.2 Transporting on Public Roadways



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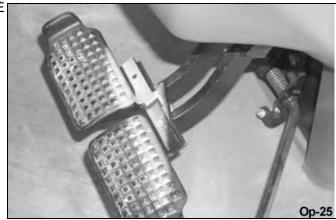


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10.3 Hauling the Tractor and Implement





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General Instructions

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Maintenance Precautions

- ″်`Ó^Án`¦^Án}åÁn,-Án¦^æ•^Án`}Ásæ)åÁn^¦\•Ásæ}^Ás⊌/æ)Ásn^-{¦^Á.•āj*ÈÄÖ^à¦ãrÁsjb^&c^åÁsjo[Ásn^æ-ði,*•ÊÁnc&ÈÀ,ão@Án¦^æ-^Á ;ãlÁ&æ*•^Ás[{ ^åãæe^^Ásaæ{æ*^Éaæ; æ*^È
- ÖUÁPUVÁ ^ ÁsaÁy[¸ ^ lÁt l^æ• ^Átˇ } Áq[Ájˇ à l 38ææ* Ásà ^ ædað * ĒĀV @• ^Á^ˇ ˇ ãh Áş^ l ^Áq ædþÁseð å Át ¢ææðáseq [ˇ } œ Áq Ás | ˇ à l 38ææðað } ÈÄÜ ^ △ l Ág Ás ⁄ ædað * ÈÄÖ UÁP UVÁ; ç^ l Ë * l^æ• ^ Ásô æðað * È
- ″ÁŠ^¢æ)Á¸ã¸å[¸•ÁαQˇ|åÁà^Á¸æœ°åÁ¸ãσΦÁ¸ãσΦÁ¸ãåÁ[æ)Á¦¦Áå^৫^¦*^}σÓæ)åÁ¸\^¸æó{Á¸æσ^¦ÉÁ•ã¸*ÁæÁ[σÓ&|^æ)Á •][}*^Á;¦Á[σÓ&|[σΦĚÖUÁ>UVÁ•^Áæà¦æoãç^Á;¦Áæ)«æβ¸^Á&|^æ)^!•Á;¦Á;^αæ;Á&æ;Αæ]^!•Á;}Áſ¢æ;Á¸ãå[¸•Â
- "Ó^Ánd^\oka[Á\ana]o^\and\oka[\epsilon]a\ana\oka[\epsilon]\ana\oka[\epsilon]\oka]o\Ana\opsilon|\dagan\oka[\epsilon]\oka[\oka]\oka]\oka\opsilon|\dagan\oka[\oka]\oka]\oka\opsilon|\dagan\oka]\oka\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\okan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\okan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\opsilon|\dagan\dagan\opsilon|\dagan\opsilon|\dagan\dagan\opsilon|\dagan\daga
- \[\frac{\text{U}\paragraphi \frac{\text{A}}{\text{A}} \rightarrow

AWARNING

Break in Period

QuÁxœååããā) ÁqíÁq∥[; ā) *Áx@Ás¦^æàËajÁsj•d`&cāq}•Áq;¦Á[ĭ¦Á;æàcã&ĭ|æbÁsæ&cq;Éxs@ÁsjĒæa)\Á@妿ĕ|æbÁj°ãáÁaj¢º¦Ár@[ĭ|å à^Á^]|æ&^åÁœæ*¦Ác@Áāj•oÁi€Á@[ĭ|•Áqi-Á*^¦çæ&^ÈÁv@:¦^ææ*¦Ác@Áajæ*¦Ár@[ĭ|åÁà^Á^]|æ&&åÁrç^¦^Á퀀Á@[ĭ|•É4]; ^^æ¦îÉà;@&@A°c^¦Á&y{ ^•Áāj•dĒ

Ü^Ë[['``^Á, @^|Á|`*•Áæe^!Áã•óÁãç^ÁQ; '!•Á[-Á]]^!æaā[}Áæ)åÁ]^!ā[åã&æ|^Ác@|^æe^!ĚÙ^^Á[!``^Á•]^&ãã&æaā[}• |ãec^åÁā]Ác@Ádæ&c[!qÁ*^!çã&^Á(æ)`æ|Á[!Á^[`!Á]æbæ&`|æ!Á([å^|ÈWheel lugs must always be re-torqued whenever a wheel is removed and reinstalled.

A DANGER

)]]Ò

Þ^ç^¦Å¸[¦\Å`}å^¦Ác@ÁQ]|^{ ^}dÄc@Á\@ A, [¦\ÊA[¦Áæ)^Åæ.�å
&[{][}^}oÁ`}|^••Ác@ÁQ]|^{ ^}oÁæ^Á^&`¦^|^Á`]][¦�åá¼!Áæ|[&\^åÁ]
d[Á]!^ç^}oÁ`åå^}Á[¦Áæ]ææåç^!�}oÁæd|æ]*Á¸@æ@Á&[`|åÁææ*•^Á^!æ]
æß Ϧ^Á;ÁÁç^}Áæ@ÆÁ¸øö⊞□D



Tæājo^}æ)&^ÁÛ^&cā[}ÁiËG

AWARNING

 $\ddot{O}[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle]) + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle]) + (\dot{A})(\dot{A}\rangle[$

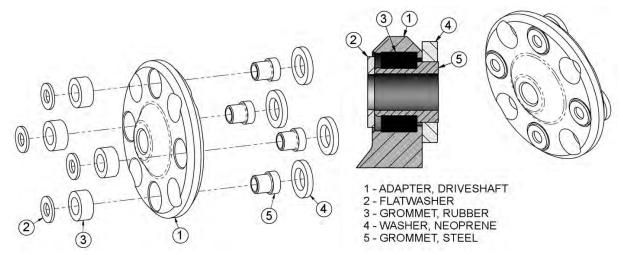
AWARNING

Of, æê•Áåãe8[}}^8cÁc@Á¸ã^Áp²æå•Á-½[{ Ác@Á{ [¸^¦Á] ~{] Á•[|^}[ãā à^-¼-¼-Á-½-¸ãæ,-Á-½-¼-Á-½-¸ãæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-½-¸áæ,-Á-¸áæ,-A-¸A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,-A-¸áæ,



MAINTENANCE OF CRANKSHAFT ADAPTER ASSEMBLY (RIGID ENGINE MOUNT TRACTORS ONLY)

\(\hat{\mathca}^\) | \(\alpha \cdot



Tængi e^}ængi &^Áû/^&angi }Án ËH

Regular Maintenance

V@Áşiơ¦ç憕ÁæçÁ, @B&@Á^*ˇ|æċÁ^¦çæðaj*Ár@Įˇ|åÁà^Áå[}^Áæd^Áàæ•^åÁş}Á@Įˇ¦•Áţ-Áş]^¦ææāj}ÈÁW•^Ás@Ádæ&dૄ¦•Á@ێ¦ {^ơ¦ÁqiÁà^ơ¦{āg^Á,@}Á^*`|æċÁ^¦çæðaj*ÁsóÁ^ˇčāl^åÈ

 $\ddot{U}^{-A} \dot{A} (\dot{A} \otimes \dot{A}) \circ \dot{A} = \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{A} \circ \dot{A} \otimes \dot{$

Daily or Every 8 Hours

QYÒT Á	ÙÒÜXၹၳÒ	ÔUTTÒÞVÙ		
Ölãç^ÁÛ@eeóÄ[\^ÉÁWÉR[ã]c BÁÜcàÁÛ@eec	Ő¦^æ^	Õ¦^æ•^Áæ-Á§j•d`&c^å/Á§ å^œa∰^å/(æa∰jc^}æ)&^Ár^&ca[}		
Ú * {] ÁÖ¦ãç^ÂÛ@æðÔ[ˇ] ^¦	Ô@&\Áaa) åÆŠ`à^	Q,• ˇ ¦^Áå¦ãç^• @eeÁ}}åÁ, æê		
Ôlæ)∖•@æóÁDāæjo∿lÁ	Ô@&\Á`àà^¦Á¦[{{ ^•	Ü^] æ&^Át¦[{{^o∙ÁsÁ åæ{æ*^åÁį¦Á;ã•ā}*		
Úã; (đÚ (ã œ	Š`à¦&Bæe^\	û ነቃ &oÁ ¦^æ•^Á} αᠯÁ≦c æ]]^æ••ÁææÁ}å		
P^妿ĕ ã&ÁØããcã);*• Á	Ô@&\Á(¦Á\^æ)•	Vat@c^}Á,@_}Á,^^å^åĎÁÖ[Ár[cÁ.•^Á@a)å• qíÁs@@&\Á[¦Án^æò•ÉA•^^Á;æājdĚA; ^&æĕdā;}•		
S} ãç^∙Á Á	Ô@&\Á	Q•]^&oÁ;¦Á;ã•ã;*Á;¦Ásæ(æ*^åÁ;}ãç^•Ê &@æ)*^ÁxæéÁ;^^å^åÈ		
Ù]āļå ^Á;[ĭcāj*Áà[o• •]ājå ^Á;Áá^&\D	Ô@&\	V[lĭĭ^Áq[ÁHFÍÁdÈÁ)à•ÈÁĭàlä&ææ^å V[lĭĭ^Áq[ÁHÍÏÁdÈÁ)à•ÈÁål^		
S}ã^Á;[ˇ}đၨ]*Áà[ơ• Ç}ã^Á;Áàã^\Á;¦Áà æå^Áàæ;D	Ô@&\	Ú¦^Ë;`à¦a&æe^Ás@,^æå•Á, ão@Áæ);dã—ē^ã.^ ₫¦```^Áq[Ái€—EÁdŽÁà•È		
Öã \ ĐÓ æả ^ ÁÓ æ Á [ັ } cã * Áà [o Çãã \ Đà æả ^ Áà æ Á Á Á Á] ā å ^ D	Ô@&\	V[¦ˇˇ^Áq[ÁFÌ€ÁdÈĦà•ÈÄĭà¦ä8æec^å V[¦ٽˇ^Áq[ÁGڪ[ÁdÈÄjà•Èå¦^		
Ó^ o	Ô@~&\+ 10 2ābŏ•c	Ô@^&\Á\$A\$i [\^}Ê&a*@^}Áæ•Á^~~ã^å		
	Ô@&\Á	Ü^d[¦˘ˇ^Áà[o•Áq Áq ¦˘ˇ^ •]^&ãa&aæaq}}•Áa,Áx@á•Án^&caq}		
P^妿ĕ ã&ÁØ ĭããÁŠ^ç^	Ô@&\	OfāåÁsāÁ^~ ĭā^åÁj,^¦Á ļĭãåÁ^&[{{^}åæāãj}•		
Ü^æk ÁQ æ#ÁÖ¦&Ç^ÇAÁ#;] &&æ} ^D Ó^æk ÁQ æ;*^Áæ;åÁÙ@ædÔ[*] ^;	Š`à¦ã&æe^\	Õ¦^æ•^Áæ•Á§•d`&c^åÁ§ å^œã∮^åÁ;æã∮c^}æ)&^Á«^&cã[}		
Ôˇœ^¦ÂÙ@œoÁæ) åÁ	аà¦a&æ∿	Õ¦^æ•^Áæ•Á§j•d`&c^寧		
Ó[[{	Tænije^}ænje&^Aû/^&canij}	Á Ë		

Õ¦[ˇ } åÁÜ[^¦		å^cæailp^å.Á(æail)c^}æ)&^Á(^&cai[}		
	WEEKLY OR EVER	RY 40 HOURS		
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		₩₩₩₩ŴÔUTTÒÞVÙ		
Ü[æ\$^ÂÛ] ājå ^	Š`à¦&&æe^\	Òç^¦^Án,€ÁQ(~¦•Án,¦Á, ^^\ ^		
	WEEKLY OR EVER	RY 50 HOURS		
ΦΌ	ÙÒÜXၹÔ	ÔUTTÒÞVÙ		
O∖Á/æ)∖ÁP^åÈÁØ ĭãå Øā¢^¦ 10 micron filterD	Ô@a}*^	Ô@a}*^Ásee^¦Áai•ơÃi€Á @~`¦•Á;} ^ÊÁs@}Án°ç^¦^ Í€€Á@~;•Á;¦Á^æb ^		
QËŠāj^ÁPā*@ÁÚ¦^••ˇ¦^ Øād^¦ Ç10 micron filterD	Ô@) *^	Ô@e)*^Ásee^¦Áãi•oÁi€ @[* •Ái} ^ÉÉs@}Árç^¦^Á Í€€Á@[* •Ái¦Á^æ ^		
	MONTHLY OR EVER	RY 150 HOURS		
ITEM	SERVICE	COMMENTS		
P^妿ĕ ã&ÁØ `ãåÁ§^ç^ Á	Ô@&\	ŒååÁæ∙Á,^^å^å		
P^åEXXa)\ÁÓ\^æ@%¦	Ô ^æ} HÔ@^&\ HÜ^] æ&^	Ô ^æ}/Á;¦Á^] æ&^ ^ ^{ ^} œÁæ-Á^~~ã^å		
Ü^æ¦Á/ā^Á/^]^ IÌ⊕ĐÌ€ÜHÌ FÌÈËH FÌÈËHÌ	TæçÁJÈÚÌÈÈ ÁWWGÎ ÁWWGÎ			
	YEARLY OR EVER	Y 500 HOURS		
ITEM	SERVICE	COMMENTS		
Ù] āj å ^ÁÕ¦^æ•^ P^åÈÁæ)\ÁØ `ãå Q\Áæ)\ÁP^åÈÁØ `ãåÁØājc^¦ Ç 10 micron filter D	Ô@#)*^ Ô@#)*^ Ô@#)*^			
QËŠ∦^ÁPÚÁØ¥c^¦ Ç10 micron filterD	Ô@;*^ ##\	Ô@a}*^Á;@^}Á§jåä&æae^å à^Á∧•dä&cā[}Á§jåä&æa[¦È		
P^å ÈÁ /æ) ∖ÁÓ¦^æc@\¦	Ô@a}*^			
Ó[[{	Tæajo^}æ)&^Áû/^&o	Σą̃}ÁΗ̈́		

TROUBLESHOOTING									
ÔŒNÙÒ	ÜÒT ÒÖŸ								
FÈŠ[[•^Áa[o•	FÈÁÁÓ @ & Áæ Áa[orÁæ) å Áæã @ ^}Áa[ÁÁÁÁÁ^&[{ ^}å^å Áa[;~~Án]^&•È								
GHÁÔ* cc^¦Áse•^{ à î ÁWÁ(}àæ†æ)&^å	GæderiÓ @ & Á[¦Ánsæ;æt^å/ná/na ænå^•Énsäa & ÆWWM;¦Æx œ^¦•@æderiÖ] æs&^ÆnsiA^^å^åÈ GàDeriÓ @ & Á[¦Á, ã^Æn[]^Æn œE ÆWWM;}œa)* ^å/nsjÆn@ Æx œ^¦Ææ•^{à ^								
FÉÁP^å ÉÁØ ĭãåÁŠ[,	FBÁNÓ @ & Ása) åÁ.^-ā Á@ åÁ. `ãà								
GÈÉS^æ}•ÁŞIÁĞI,^ ÜUW HÈÁØæĕ c°Á,^ ãN-Áşæ¢ç,^	GÈÁÁV∄ @^}Á;¦Á^] æ&^Áãcā;*•Áæ;åÁ@;•^• HÈÁÁÔ@&\Á;¦^••`¦^Ás,Áā;^ÈÚā;^Á ÁÁÁÁÁ;¦^••`¦^Ás,Á&;}d[Áçæqç^Á;@;` åÁa^								
Í ÈÁØæĕ cîÁ&î ā]å^¦	Í ÈÁÁÁQ.•]^&dÉÀ^]æáÁ;¦Á^] æ&^Á&î ā;å^¦								
FÉÁÓ [¸}Á∵•^ GÉÁÓællÁsætc^•Á&l[•^å	FÈÁ MÁÔ@ & Á `•^Áa ^ç ^^}Á; [¸^¦Án¸ãa&@Á Á M MÁS; å Áat}ãa[}ED^] æ& ^ GÈÁ MT æà^Án`¦^Ápædç^•Áæd^Á[]^}								
HÉŠĘ , Á AÁ°¢° I EŠŠĄ ^A/°æ	HĒŹ∰Ô@~8\Á@ àĒÁsēa) \Ása) åÁā IĒÁ∰Ô@~8\Ása Áāsēā * •Ása) åÁā,^ • Ē Á∰∰^ĒĒā @^}Á;¦Á^] æ&^								
Í ÈÁÒ ^&d:[}ā& Á₩ÁA[^}[āāÁæĕ c°	[ab								
	FÈĞ[[•^Áa[• CHỐ CƠ ÁĐ• •^{ à î ÁMÁ à adad & A Á FÈÃ A À ÁB ÁB ^ ÜUW HÀ ĐƠ Ở Í Á Â Â Â Â Â Î FÈỚ IC Á Â IB Å Å A ÜUW HÀ ĐƠ Ở IC Á Â IB Å A Î FÈỚ IC Á Â IB Å A Î FÈỚ IC Á Â IB Å A Î FÈỚ IC Á Â IB Å A Î IÊĞ A Â ÎB Â Â Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î								

TROUBLESHOO	TROUBLESHOOTING (CONTINUED)								
ÔŒWÒ	ÜÒT ÒÖŸ								
F Ě Ó^∣ o •	FÉXXXXX •]^&oÁs\ o•Ásc) åÁ,` ^^•ÉAÜ^] æ&^ ÁXXXXSs\ o•Ásc) æáÁ^]æáÁsc•Á,^^å^åÈ								
ŒĂ / ^}• ā [}^¦	#####################################								

FÉXXXÖãæ•^{ à |^Áxx) åÁ^] æãÈ

FÉRÔ[}cæ{ã;æ;œ;Á FÈÁÁÁÜ^{ [ç^Áæd*^Á, *ơÁ} Á ãã^Á, -Áæd*^ Mower turns slowly ÁÁÁÁ^•dã&cã}*Án][[| ÁÁÁÁÁÁÇaqç^Áà∥& ÈÁÜ^{ [ç^Áa]¦āj*ÊÁSA)åÁ.◆^ or not at allÈ ÁÁÁÁ [ç^{ ^} oÁ§ Á Α₩₩₩Á,^^å|^Á,[•^Áçãr^Át¦ā]Áξ[Á,`||Á+][[| ÁÁÁÁçæqç^Áà[å^ÈÁ ÁÁÁÁÁÁ¦[{Áà|[&\ÈÁÔ@^&\Áà|[&\Áæ);åÁ∗][[| AXXXXX ¦Á& () cæ(ã, æ) o•Áæ) å Án & ¦ææ& @ • È Α₩₩₩Ô|^æ)Ά, æd⊙Ά, ¦Á^]|æ&^Ά⊊Ά, &¦ææ&@°åÈ GĚÁŮ 8cã[}Á/ã]^• QĐÁÁÁÔ@^&\Á[¦Áiā]\•Á[¦Áià•d`&qã[}Á5] ÁÁÁ,à∙d`&c^åÁ *XXXXX*4×8ca[}A@[•∧È HÈÉŠ[, ÁláJÁ/ç^| HÉXXXÔ@ &\ Á@ å Éxca) \ Á^ç^|Ása) å Áã|È FĚÓ¢&^••ãç^Á, ^æ FÉXXXÖãæ•^{ à|^Áæ) åÁ^]æãÈ Pump will not work ÁÁÁÁ (^¦) æþÁ æd∙

 $\begin{array}{l} \text{PUVO'MGA'}[\ \ \, \text{Ai} \ \ \, \text{Aice} \ \ \, \text{$

FĚÓ¢&^••ãç^Á, ^æ

ÁÁÁÁ (^¦) æþÁ æd∙

Tænājo^}æ)&^ÁÛ^&anāj}ÁiË

ÙŸT ÚVUT Ù

Motor runs but will not cutÈ

Motor will not work

				Т	orque	for St	andard	Faste	ners				
7 0-811-000	threads)	Grade 2	0	>	Grade 5	(I)		Grade 8	0		Grade 9
Dia.	per	Tig	htening Tor	que	Tio	htening To	rque	Tig	htening Tor	que	Tig	htening Tor	que
	men	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					
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 R-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	128	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	966	1095	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1363	1545	1817	1597	1810	2130
11/2	6	652	783	869	1462	1657	1950	2371	2688	3162	2779	3150	3706
						Fine T	hread Se	ries					
1/4	28	56 lin-lbs	68 lin-lbs	75 in-lbs	87 in-lbs		116 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 ff-lbs	49 ft-lbs	58 ft-lbs
7/16	20	27	32	36	41	47	55	-58	56	78	68	78	91
1/2	20	41	49	55	64	72	95	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
11	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. Torque values calculated from formula T=kDF, where

K=0.15 for "lubricated" conditions K=0.17 for zinc plated and dry conditions K=0.20 for olain and dry conditions D = Nominal Diameter F = Clamp Load

			Class 4.6									s 12.9
		<	4.6)	16	Class 8.8 8.8	>	١,	Class 10.9	>	F	12.9
lominal	Pitch	Tigl	tening To	rque	Tightening Torque			Tightening Torque			Tightening Torque	
20		Lubed Dry Plated Dry		Dry plain	Lubed	Dry Plated Dry plain			Dry Plated	Dry plain		Dry plai
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	6.8	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		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	184	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	85	73	86	167	189	222	239	270	318	279	372
20	1.5	101	115	135	270	306	360	374	424	498	437	583
20	2.5	91	104	122	236	267	314	337	382	449	394	525
lamp los	d cale	culated as	75% of th	ne proof lo	ad for spe	cified bolts.	K = 0.15 f	or "lubric	ated" cond	itions	D = Nomin	nal Diamet
All torque	value	es are list	ed in foot-	pounds			K = 0.17 f	or zinc pl	sted, dry o	conditions	F = Clamp	Load

Tænāje^}ænj&^ÁÜ^&cnāj}ÁiÈi

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Description	Application	General Specification	Recomended Mobil Lubricant	
Vlæ&dlÁR^ålæĕ a&∙Á	Ü^∙^¦ç[ã	RÖËG€Ô TØÁTFFHÍÐ FFIF ØÞPTGÔFHIÖÁÇØÞPG€FD	T[àã∔¦ˇããÁiGI	
T[,^¦ÁP^妿ĕ &&•ÁÁWWW Ô[åÁA^{]^¦æeč¦^•Á√€»Á ÙæddËW]		OùUÁiÎÁOĘaËY^æEŠ[¸Á^{]	T[àðjÁÖVÒÆTÍT	
Þ[¦{æ∳Á/^{]^¦æĕ¦^•Á/ F€»ÁØÁÛædÖGMJÁ‱	‱ ⋘ ⋘	RÖËG€Ô TØÁTFFHÍÐ FFIF ØÞPÁTGÔFHIÖÇØÞPG€FD	T[àậl- ઁãâÁÍGIÁ	
Þ[¦{æ‡ÁV^{]^¦æe`¦^∙Á FÍ»ÁØÁÙæe⊹óÁV]		Où∪ÁiÎÁOE;caËY^æ	T[à ā/Ö VÒÆÍ	
Pâr@ÁU]^¦æaā,*Á/^{]È Oāa[ç^ÁJ€»ÁØ		QÙUÁF€€ÁQE, caËY^æ;	T[àãÁÖVÒÁFÌT	
Ø æ j ÁÜ^ælÁÕ^æla[¢///////	∰Ö¦^æ•^	ÚŒIJÂÛ^}ơ@ơæÁÔ¢d^{^ Ú¦^••ˇ¦^ÁÕ^æJÁЎà^	T[àāļÁÙPÔÁÍÍYËÜ€ T[àãļÁFÁÙ^}c@cô&ÁŐ^æ	
Ô` cc^{AÛ @ee/BAŐ;[`}}å/ Ü[^{AÛ @ee(Ø)ænjD	₩₩Õ¦^æ^ Õ`}	Šão@ã{ EÖ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOBÖÜJUÁHG€	T[àấ‡*¦^æ•^ÁÔTĒÙ	
Ö¦ãç^ÁÙ@eeÁÔ[ˇ] ^¦ ÇZ æãjÁse) åÁÜ[œef^D	Õ¦^æ^ Õ`}	Šão@ā{ ËÖ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕODÄÜÙUÁHG€	T[àẩ‡*¦^æ•^ÁÔTĒÙ	
Ölãç^ÁÙ@ecóŸ[\^Ê WÉTÇ ãJoÁBÁÙC àÁÙ@ec	Õ¦^æ^ Õ`}	Šão@ā{ ËÖ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕODËÜÙUÁHG€	T[àẩ‡*¦^æ•^ÁÔTĒÙ	
Ó[[{ ÁÛ, ãç^ Ó[[{ ÁÔ^ ājå^¦ÁÚãç[o• ÇÜ[cæt^ÁBÁØ]æājÁÖ[[{ D	Õ¦^æ^Á Õ`}	Šão@ã{ ÁÔ[{] ^¢ Ò¢d^{^Á¦.'^••`¦^ ÞŠÕODÄÜÜUÁHG€Á	T[àā[*¦^æ•^ÁÔTĒÙ	
Ö^&\ÁÓ[[{ÁÚãç[ơÁB Ö^&\ÁÙq[]ÁÓEābŏ•q(^}c Ü[œa}^ÆBÁØ æā D	Õ¦^æ^ Õ`}	Šão@ā{ ÁÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOŠÈÙ)UÁHG€Á	T[àā[*¦^æ•^ÁÔTĒÙ	
Ö^&\ÁÙ] ājå ^ÇÜ[æ&^ D	Õ¦^æ^ Õ`}	Vāt^¦ÁÛ]ājå ^ÁŠ`à¦a&æa)c]æbóÁ,`{à^¦ÁeÎÍI €€€€	T[àajão@ÁÙPÔÁGG€	

Tænāje^}ænj&^ÁÛ^&cnāj}ÁniËJ

POLYCARBONATE CARE AND MAINTENANCE

V@^Áj¦[]¦ard^ÁWXÁsa) åÁŒa¦æa[}ÁÜ^•ãrœa)ơÁÙ*¦æa&^Á&[ææā]*Á[}ÁÙP®ÒŠÖÙÁÙWÚÒÜÔUŒVÒÖÁj[|ſ&ædà[}ææ^ •ãt}ãa&æ)d^Áā[]¦[ç^•Á;^¦-¦{æ}&^ÈÉÚ^¦ā[åā&Á&|^æ)ā]*Áï•ā]*Áï¦[]^¦Áj¦[&^å*¦^•Áæ)åÁ&[{]ææãa|^Á&|^æ}^ !^&[{{^}}å^åÁ[Á;Á;![[]*Án^¦çã&^Áã^ÈÁðā^!ÁÔ[!]ÈÁ;[|^&ædà[}ææ^ÁsAÛWÚÒÜÔUŒVÒÖÁ;}Ás[œ@Áæã^•È

ԊҌ DO ŐÁ/P ÒÁUWÚ ÒÜ ÔU Œ VÁP ŒÜ Ö ËÔU Œ V

FÈ Yæ @Á ãc@ÁæÁ đảÁ[| 'cā} \dot{A} = \dot{A} [æ] \dot{A} | IÈ Cōç[aã Ás@ Á • ^ Á; -Ásaà | æ•ãç ^ Ásu|^æ) ^ ; • ÉÁs ˇ ^^* ^^ • Ása) å Đ; | Á; c@ | Ásu|^æ) ā; * Ás[] | ^ { ^ } o•Ás@æcÁ; æð Á; æð Á; lÁ * [ˇ * ^Ás@ Ás[ææā] * È

Ô ŠÒ CEĐ CP, Ő Á CEÐ Ò Þ VÙÁY POÐ PÁ POEK Ò Á Ó Ò Ò ÞÁ ØU WÞ Ö Á VU Á Ó Ò Á ÔU TÚCE/OÓ ŠÒ Á WÞÖ Ò Ü Á ŠŒÓU ÜCE/U Ü Ÿ ÔU ÞÖ CNYOU ÞÙK

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 $O c |AO | [\bullet[] \bullet [] c S^{-1} [\bullet A]^{-1}$ $P^c | BOE | BA | I$ Pae | Coccentration | PAE | Coccentration | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE | PAE

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GRAFFITI REMOVAL

Ó c |Ás\|[•[|ç^Áç|¦Á^{ [çæ|Á; -Á;æā] • ÊÁ; æ\ā] * Á;^} ÁB,\•ÊÁ] • ŒÁ ÊÀ œÀÈÁ @ Á • ^Á; -Á; æ•\ā] * Áæa] ^ ÊÁæâ @ • ãç^Áæa] ^ [¦Áā; oÁ^{ [çæ|Á; []•Á; []•Á; []•Á; []•Á; A|Á; Áæā] * Á --Á; |åÁ; ^æœ@!^åÁ; æē] • È

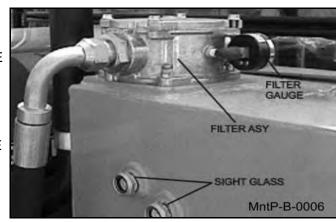
V[Á^{ [ç^Áæà^|•ÉÁ cã&\^¦•ÉÁ cã&\^¦•ÉÁ cæ&\ÉÁ;@Á•^Á;-Á^¦[•^}^Á; ÁKTBÚÁ;æ}@cæá£áÁ^}^¦æ}^A; A*~^&cãç^ÉÁ @}ÁœA[|ç^}c _ā|Á|cÁ|°^}^dæe^Ácã&\^¦Á;ææ^¦ãæÞÉæ}]|^Á@æÁ©æáÁ@æáÁ&¦^^¦DÁ;Á|æ}&Aæê@•ãç^Áæ}åÁ;¦{{|c^Á^{|ce}E

QTÚUÜVOE>MÁQÁnÁ,溦ãndÁs•Á[ˇ}åÁqíÁs^Ás,&[{]ænān|^Ás,ÁæÁ•@¦dĒº¦{Áơ•đÃnÁ,ā|Á·*æ|^Ás^Á[ˇ}åÁqíÁs^ 引 &[{]ænān|^Ás,Áo@Áæ\åeĚV@Ás[}ç^¦•^ÊŒ,^oç^¦ÊÃnÁ,[oÁnd,æ••Átˇ^ÊÉØæç[¦ænà|^Áj^¦-[¦{æ)&^ÆnÁ,[Áˇææè,ơ^ o@neÁnæScˇæÁY}åË•^Ás[}åãn]>•Áæçç^Ás^^}Ás´]|ãSææ^åÊÁV@¦^-[¦^ÊÁs@•^Á^•`|o•Á•@ˇ|åÁs^Á*•^åÁæe ÁæÁˇãnÁ,}|`æ)åÁnÁs*6*•Ås[{{^^}åÅs@ænÁs@mÁ*•^¦Ás*•Ås*6**Å\$]|å &o•Á}å^|åå¦Áæ&cˇæÁN}åË•^Ás[}åãná]>•ÈÁ

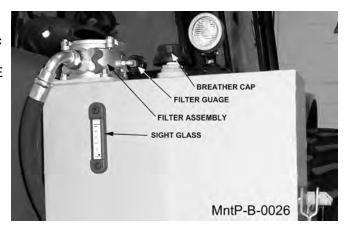
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RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS



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æ^kÁÁ/@Á'^•^¦çā[¦Á•@ ` |åÁà^Áā]^åÁ[Áæ/Ás^} &^!
[ÁœÁ•ā @Á* |æ•Á[}ÁœÁ•āå^Á; ÁæÁæ) \ĒÖ[Á; [c
[ç^¦Ëā]ĒʿQÁœÁ•æ) \Á@æÁ[[Á; ~&@Áæ) āĒÁœÁ•¢&^••
{ æÁà^Á•¢] ^||^åÁœ[` * @Áæ/Á; |^••* ¦ã ^åÁà!^ææ|È



DETAILED MAINTENANCE

ÜÒÚŠŒÔOÞÕÁOÞËZŒÞSÁPŸÖÜŒKŠOÔÁZOŠVÒÜK

Š[[•^} Ác@ Á;[`¦Áà[|o•Á;] Ác@ Á;] Á&[ç^¦Á; -Ác@ Áā;c^!
@`•ā;*È\";} &&[ç^!Á&[`} c^!E&[&] ā·Á; cā;A&[ç^!Ás-\^È\"\{[ç^Áa;à åÁ^]|æ&^Áā;c^!È\"\]|æ&^Á;[]Á&[ç^! æ; åÁ&[ç^!Ás[]o•Á§Á]][•ãc^Á; å^!Ás-Á^{(c)}E\"

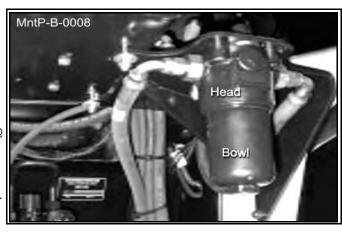


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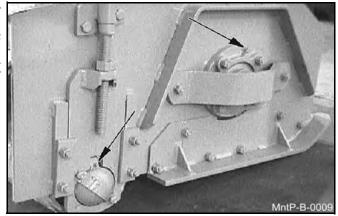
DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:



•^aqā;*ÁqærÁc@Áà[¸|Ár@[¸|Ár]ā;Á;^^|ÈÁvætā;*Ásæ;^Á;[cÁq;Áå;[]Ác@Áà[¸|ÉÁð;ār@Án^{ [çā;*Ác@Áà[¸|Á;[{Ác@ @æå:ÈÁWARNING: bowl will be full of oil!Á

GREASING CUTTERSHAFT -- FLAIL MOWERS

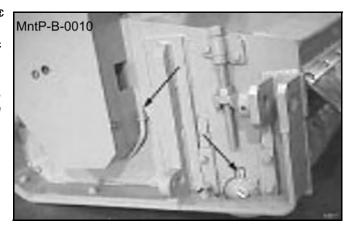


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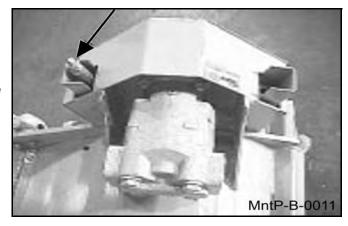
GREASING GROUND ROLLER SHAFT-- FLAIL

Š[&æe* Á* |^æ•^Á ^|\• Á[} Á•æ&\ Á•) å Á[-Á[||^!Áč à^Áæe* || , ^!Á•) å Á[-Á[||^!Áč à^Áæe* || , ^!Á•) å Á[-Á[||^!Áč à^Áæe* || , ^!Á•) å Á[}•Á•^ˇ ã^Á[}•Á•] ^Á[] • Á• Šãæã { ËÔ[{] |^¢ Ò¢d^{ ^ÁJ|^••`!^Á!^æ•^Æ[} -[!{ ā*Á[Å•ŠÕŒĒŪUU HO€Á•] ^&ā&æā[}•ÉA V@ā Áā Á(Áà^Æ[] ^Á, ãoææe* •æ) åæbåÁ*!^æ•^Á* } Áåæá§ Á[!Áæe/8 hour intervals. CAUTION: Over greasing may cause premature seal failureÈ



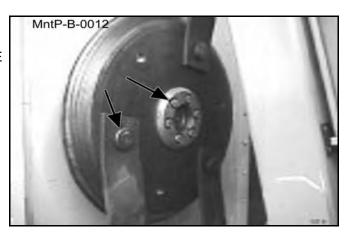
ADJUSTING/CHECKING BELT TENSION

\[ÁsaåĎ • OÁà^|OÁc^} • 頁} Á; |Á^| |æ&^Áà^|oÁ; |Á|æāÁ& cc^| @ æåЁÁ^{ [ç^Á[ˇ | Áà[|o Ác@æÁ^^& ˙ |^Ác@Áà^|CÁ&[ç^| 益\[c^K@ Á@ ¢Á; ˙ o Á @ ¸ } Áà^|[¸ Á&æ) à^ÁæåĎ • c^âÁq Áş &!^æ^Fā^&!^æ^Ac@Áà^|CÁc^} • 頁} æÁ;^^å^åÈÁÇDUVÒKÁŠ[&æã] } Á[ÁæåĎ • c' ^ } cÁ; ˙ o { æÂçæî ¼; Á|æāK& cc^| Á@ æå • ÈÆBe sure to replace the belt cover BEFORE operating mower!



TIGHTENING KNIFE BOLTS AND DISK BOLTS:

 $\begin{array}{l} \text{CEe} \left(\frac{A}{V} \circ \right)^{A} \stackrel{A}{A} \stackrel{A}{Q} \left(\frac{A}{V} \right)^{A} \stackrel{A}{A} \stackrel{$

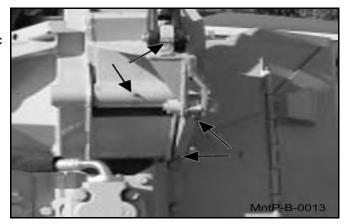


Tænāje^}ænje^Aû√-&can[}ÁnÜ≕H

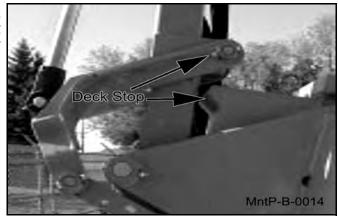
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GREASING POINTS ON BOOM AND PIVOT

Š[&æe^Á*!^æ•^Á^!\•Á;}Áå^&\Á;Āāç[ơ♠•^{ à|^ÊĀ;}Áo@ å^&\Á^}åÁ[—Á•^&[}åæê^Áà[[{ ÊÁæeÁ(æā;Ð^&[}åæê^ à[[{ ÁÁpā;dÊÁæ)åÁææÁ,ãç^|Á>}åÁp.—Á;æājÁà[[{ ÈÁQÞ/8c Šão@ã { ËÔ[{]|^¢Á Ò¢d^{ ^Á Ú!^••`!^Á:|^æ•^ &[}-{¦{ā;*ÁqÆ•ŠÕOSËŪÙUÁHO€Á•]^&ãæ3ææāi}}•Á`}dā; *!^æ•^Áà^*ā•ÁqÁ;Á;[d`å^Á;[{ Á^}å•È



DECK STOP ADJUSTMENT



GREASING SPINDLE

Š[&æec^Á*¦^æe^^Á-āncāj*Áį}-áāj•āá^Á[-Áå^&\ÁQ` •āj*È Qub'&oÁ Vā'^¦Á Ù]ājå|^Á Š`à¦ā&æjdÉÁ]æbóÁ}*{à^¦ €ÎÍI€€€€Á¸jq[Á;]ājå|^ÁQ¸*•āj*ÈÁOājļÁ¸ān⊙Á|`à¦ā&æ)c `}dāÁ|`à¦ā&æ)oÁ¸^^]•Á[`oÁ[-Áq]]āå|^Á•^æÈ Š`à¦ā&æec^Á;]ājå|^Á¸^^\|^Á;¦Árç^¦^Á,€ÁQ¸*¦•Á;-Á•^È

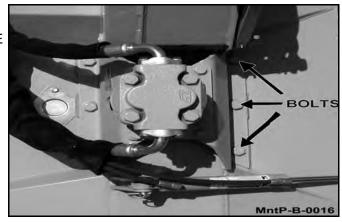


Tænājo^}æaj&^ÂÛ^&cnāj}ÁnÜFI

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TIGHTENING SPINDLE BOLTS

V@Á;]ājā|^Á;[ˇ}cāj*Áa;[o•Á;@¸ˇ|åÁa^Á&@&\^åÁæ)å
!^dː˙ˇ^åÁaæan;Á;!Árç^\!^Â;Á@¸ˇ!•Á;Ár^!çæR^ÈM;!ˇˇ^
c@ÁÇÎDÁa[|o•Á;@¸}Áa^|[¸ÁqÍÁnÍÏÁa!^Á;!ÁnFÍÁdEA)à•È
Iˇà!æ&æe^åÈ



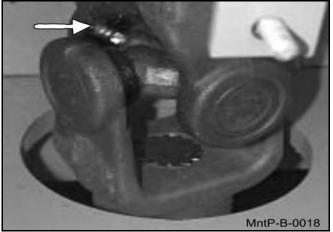
GREASING PUMP DRIVE SHAFT COUPLER

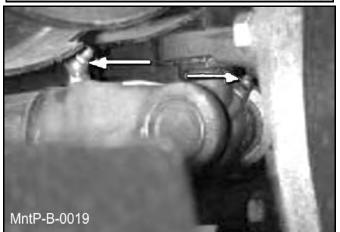


Tæāje^}æ)&^ÁÙ^&dāi}ÁiËFÍ

DRIVESHAFT YOKE, U-JOINT STUB SHAFT

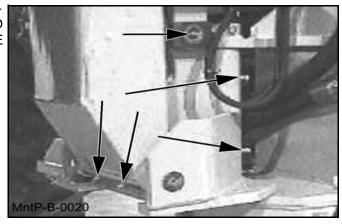
 $\begin{array}{l} Y @@A ^ \} * \rlap{\ a}_A ^ A \bullet e \rlap{\ c}_1] ^ a E A \rlap{\ a}_A b * & A Šão @ã { E O [{] | ^ ¢ ^ ¢ c ^ { A_1 | ^ \bullet \bullet ^ | ^ A_1 | ^ æ ^ A_2 | } + | { \rlap{\ a}_A * A_1 A_2 ŠÕ @E D U } \\ + O = A_1 | ^ & A_2 & A_2 & A_2 | ^ A_2 & A_2 & A_2 & A_2 | A_1 | A_1 | ^ A_2 &$





GREASING THE BOOM SWIVEL

 $\tilde{S}[8ee^{A}Ac@A:^{|\cdot|\bullet|A}[Ac@A(8ee^{A})] = \tilde{A}c@A(8ee^{A}) = \tilde{A}$



Tæāje^}æ}&^ÁÛ^&cāj}ÁnËFÎ

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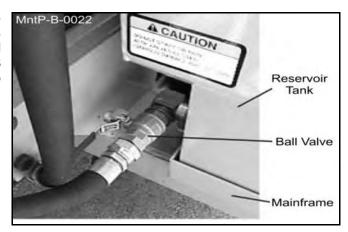
GREASING BOOM CYLINDER(S) PIVOT POINTS

$$\begin{split} &\tilde{S}[8 \cos^4 \hat{h} @ \hat{A}^1 \backslash \hat{A}_1] \hat{h} \hat{o} @ \hat{A}_1^* \cos^4 \} \hat{a} \hat{h} \cos^4 \hat{A}_1^* \hat{A}_2^* | \hat{a}_1^4 \hat{A}_2^4 \rangle \hat{a}_1^4 \\ &[] \hat{A}^1 [\hat{a} \hat{A}^4 \rangle \hat{a}_1^4 \hat{A}_2^2 \rangle \hat{A}_1^* \hat{b}_1^4 \otimes \hat{A}_2^4 \hat{A}_2^4 \hat{A}_1^4 \hat{A}_2^4 \hat{A}_1^4 \hat{A$$



BALL VALVES

V@Áaæ|Áçæţç^Áæóc@Á@ålæ|æ¾Á^•^\ç[ālÁ(æÂ,^^å d Áà^Á&|[•^åÆå*¦ā,*Á&\cæa,Æ(æa,æ)æ,æ)æ,&^Á[¦Á^]æa,] \[&\å*\^•Æ\HE BALL VALVES MUST BE OPEN (handle parallel with valve) WHEN TRACTOR IS RE-STARTED OR PUMP IS COUPLED TO MOTOR OR PTO!ÁØæa, \^Áq Áa[Á [Á [Á, a|Á\^•*|Æ, &[{][}^}oÁæa, \^Â



Blades

Ô@&\Ár@ÁÓ|æå^•Á[¦Á&¦æ&\•Áæ)åÁ¸^ækÁæ)åÁÓ|æå^ÁÓ[|œÁ[¦Árã @}^••ĒÅkæāfĒÁÓ|æå^•Á(@)*|åÁà^Á^]|æ&^åÁ¸@} c@^Áæd^Á;[¦}Ár¢&^••ãç^|ÊÁà^}dÉà^-{¦{ ^åÉÁ;¦Á`ŏÁ;Ækææ}&^È

A CAUTION

Important

Tæ\^Á*; \^Ác@ Á([, ^\Áa\æa\^• Áæ\^Ác'\}ā; *Á&\[&\, ā*^Á, @\}Á\[\ā;* å[, }A\-Ac@^Á(], \frac{1}{1}, \frac{1}{2}, 

AWARNING



A WARNING 🕰 ADVERTENCIA TO AVOID SERIOUS INJURY PARA EVITAR LESION SERIA AND DEATH FROM THROWN O MUERTE POR OBJETOS OBJECTS: LANZADOS: MAKE CERTAIN blades · ASEGURE que las cuchillas giran rotate the correct direction. en la dirección correcta. **BLADE ROTATION ROTACIÓN DE CUCHILLAS** Return Pressure Propión I Betamo

ROTARY KNIFE REPLACEMENT

- FÈ Ó^Á'; \^Á['Á@ec,^Áæ&[{]|\^c\Á; æe&@]*Á\^c\Á-Á\^,Á}āc,\•Á; ;Á\] æe\{ ^}cÈ
- HÈ Š à ^Ác@^æå•Á, ãc@Áæ) cã ë ^ã ^ÉQ0• cæ|Áå[|ọ•Ác@[* @Á) ã ^Áæ) å Ååã à \Á¦[{ Áà[cq[{ Áàã ^Á; Æåã \ Eà|æå ^Áàæ ÈÁ Q0• cæ|Á, ^, Á•/-É[&\ã] * Á; *ó Áæ) å Áá[i ` ` ^Ác@{ Át Â.€ÉÁcĒÁ} È
- IÈ V@Á}ãç^•Á@*|åÁ;ã;*Á¦^^|`Ág Áæà•[¦àÁ;@&.•Á;[{Ág]]æ&oÁ;@}Ádãã;*Áiàb'&o•ÈÁ

≜WARNING

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

REPLACEMENT OF ROTARY DISK/BLADE BAR

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

- FÈ V@ Áa[|œ Áa@æÁaææ&@Áa@ Áaã\Áq Áa@ Áa] āj å|^Á; ˇ•oÁa^Át¦æå^Ái ÈÁv@•^Ái ĐÌÁā; &@Áa[|œ Áæ¢^Áq Áà^Áq ¦˘ ˇ^åÁq Gel Áa; Âi, Árì I ÁAdÉ)à•Ái àt a&æc³áÁ, āc@Ás[&cæc³ÁG] FÈ
- QÈ OZÁGQ^a&A[8\ā; *Áet^} oÁ; æê Á\A&d] | 3\åÁf ÁGQ^a&A Á; Ásd|Á; [`} cā; *Á\[|• Á\^{; '} cā; *Á\[|• Á\^{; '} A&Q^ Á\; cæ|/åÈ
- HÈ Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knife knounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present the disk must be replaced.
- IÈ Q•]^&cÁc@Áåã\Á([ˇ}cāļ*Áà[|o•ÁåæāfÁ, @}Á&@&\ā]*Ácāt@}^••Á[-Á\}ã^Á([ˇ}cā]*Áà[|o•ÉÁQÁæÁåã\{[ˇ}cā]*Áà[|o•ÉÁQÁæÁåã\{[ˇ}cā]*Áà[|o•ÉÉŒÁ, *•CÁàAÁ\{[ç^åÉÁc@^æå•Á&|^æ}^åÉÁ;^•@Ác@^æåÁ[&\ā]*Áœt^}oÁæā]]|ā\åÉÆæjå acāt@^}^åÁ{[Ā;[]^¦Á[;ˇ^Áçæţ^È
- ÍÈ QÁĐÁ}ã^Á;[ˇ}ợ¾*Áà[|ơਓ‡Á[[•^ÉÁœ@Á^|Á|8&]‡Á¸ơÁ;ˇ•ơÁs^Á^]|æ&%åÁæ•ÁæÁæ•ĆÁ;¦^&æčợá]ÈÉŠ à¦æðææ° ơ@^æå•Á¸ão@Áæ;çãē-^ã^ÉÒQ•œæ|Áà[|œÁc@[ˇ*@Ák}ã^Áæ;åÁåã\Ðà|æå^Áàæ;Á-¦[{Áà[α[{Á÷ãã^ÉÓQ•œæ|Á•^|~ |[&k]‡Á,ˇœÁæ;åÁq;¦`ˇ^Áœ&{Áq;Á;€ÉÁdÉjà•È

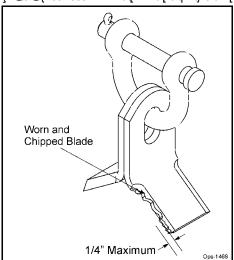
Tæājo^}æ)&^ÁÛ^&cā[}ÁiËFJ

Flail Blades Inspection

A DANGER

- \tilde{C} \tilde{C}
- " OE; ^Á&; æ&\ Áæ; ^Áçã; ãã | ^ÊÁ; ¦Á
- Ű^^]Á*[**^•Á§Áo@Áá|æå^qÁ*¦~æ&^Áæ\^Á;¦^•^}d£Á;¦
- ~~ Õ[**^•Á;¦Á&@ā]]^åÁseb^æeÁā,Ás@ Á&° ccā,*Á°å*^Áseb^Áæd*^¦Ás@æ),ÁπÐ +Q`{{ □ĐÁ;¦Á

DO NOTÁ dæð @^} ÉÁ @ed] ^} ÉÁ ^|åÁ| ¦Á@edå Ëæ&^Áa|æå^•



Ot, æê•Á^]|æ&^Áa|æå^•Áa|Á^œ

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Tænf (°) ænf & ÁÛ^&cnf } Án ÉG€

Blade Pins and D-Ring Inspection

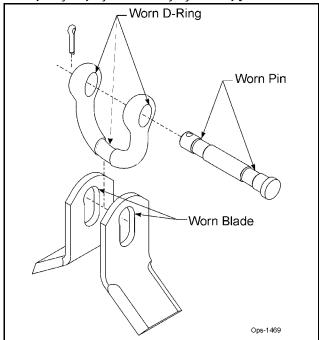
Q•]^80/Ó|æå^ÁÚā,•Áæ) å/ÖËÜā, *•Áåæãf, Á[¦Á, ^æ/Á;¦Áåæ(æ*^Áæ Á[|[, •KÁ

A DANGER

Q.•]^&oh@AÓ|æå^Ájā]•ÁæjåAÖEÜāj*•ÁåæäjîÁ[¦Áæà}[¦{æþÁ^ædETæ\^Ái`¦^Áo@Á&[œ^¦Ájā]•Áæ}^ ājÁj|æ&^ÁæjåÁj¦[]^¦|^Ár]¦^æådEÜÒÚŠOBÔÒÁÓŠOBÖÒÁÚāj•ÁæjåAÖEÜāj*•ÁOTTÒÖOOE/ÒŠŸÁÆÁ@^ @æç^K

- ″ Xãaãa|^Á&¦æ&\•Á\¦

Of, æ • Á^] |æ&^ Ás@^Á, ā • Ása) å ÁÖËÜ ā * • Á @}^ç^! Á\¢&^•• ãç^Á, ^æ Ás Á; [æ&^ å ÈÁ



Important

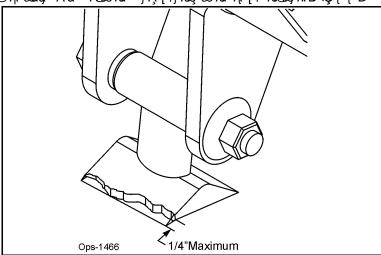
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Tædic^}æ) &^ÂÛ^&cdi} Á ËÐF

Flail Axe Blades Inspection

A DANGER

- $(\%)^{\circ}$ $(\%)^$
- \mathcal{L} Uçæ \hat{A} @e \hat{A} ^æ \hat{A} •æ - ″ OE, Â&, a&, Ásd, ^ Áçã; ãa | ^ ÊÁ; ¦ Á
- Ű^^]Á[**^●Á§Ás@Ás|æå^qÁ*¦~æ&^Áæd^Á;¦^•^}dÁ;
- ″Õ[ˇÎ^•Á;¦Á&@Aj]^âÁse\^æ•ÁsjÁs@ Á&`cca]*ÁÎå*^Áse\^Áae*^¦Ás@æ)ÁFÐD+Q}{{DÉÁ;¦Á



Off, æê•Á^] |æ&^Áa|æå^•Áa| Á^o•

- ´´ Ó |æå^•Ás@æÁæb^Áåæ; æ* ^åÁ; æêÁāj åæææ^Á^ç^¦^Á^¦çæb^Á; ¦Áæà`•^ÈÆÁ; } ^Áà |æå^Áæ; Á; [;}Á; lÁåæ; æ* ^åÁ; c@; lÁ
 à |æå^•Á; ÁœÁæ; ^Á; œæçÁ ā |Áœæç^Áà^^} Áà`^à b%&°åÁ; Ás@Áæ; ^Ár^ç^¦^Á^\; £æå^Á; Áæà`•^ÈÁ

Important

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A CAUTION

Þ^ç^¦Áææ?^{] œ([Á œd] ^} Áà|æå^• ÞÁ₩₩ÓPS-U-0042

Tæd c^} æ & AÛ^&a1} Á ËGG

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Flail Axe Blade Bolt Inspection

Q•]^&oÁÓ|æå^ÁÓ| [o•Áåæáj^Á;¦Á,^æ;Á;¦Áåæ;æ*Aæ;Á;||[.•K

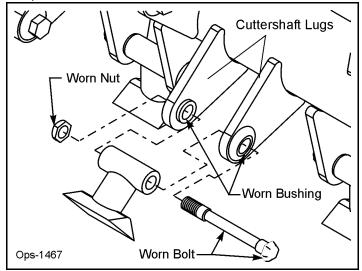
A DANGER

Q.•] ^&oÁc@ ÁÓ|æå^ÁÓ[|oÁsæã] Á; ¦Áæà} [¦{ æÁ, ^æÞÁÜ ÒÚ ŠŒÔ ÒÁŒŠŠÁÓŠ ŒÖ ÒÁÓU ŠVÙÁ[} Ác@

- Xã ãa |^Á&¦æ&\•Á\¦
- QÁs@ Áà|æå^Áà[|ơÁã Á; [¦}Á;!Áæ}^Á^&^••^åÁæd^æÆā Áçã ãà|^Á;}Ás@ Áà[|dŹá;¦
- QÁÓ | æå^ÁÓ | | oÁææ Á [**^•Á ; Á&æ]] ^å Áæ Aæ ÉÁ; ¦ QÁÓ @] * Áæ Á[[•^Á§ Áæ ÁÜ [₫ ; ÁÙ ææ È

Øædi¦^Áq[Á^]|æ&^Áæà}[¦{æ||^Á,[¦}Áà[|•Á[¦Áà*•@3;*•Á(æáA|^æåÁqÁ&æææ•d[]@3&Áædi;'^Á[√Ás@^Áà|æå^•Áæ)å ^b/8cq1} /n - As@ As![\^} /n add£4 @BR@A aê A8aĕ • ^Ar^!q1 * • As[åq1 As b'; Ar!As^aæ@A

c@ Áa|æå^• Á ã|Á, [cÁ, ã, * Á¦^^|° ĚÁÁOPS-U-0043



Tænfc^}ænf8^ÁÛ^&cnf}Á ECH

50" FLAIL KNIFE BLADE REPLACEMENT (Light Brush Grass)

- FÈ QÁ}ãç^•Ásèç^Áåæ{æ‡^å/fi;/Áàæåj^Á;[;}Êfc@^Á;ā|/Á,^^å/fi;Áà^Á;Áà^Á^]|æ&^å,Ææ ÁæA^oŒÂÛ;/]|æ&;ā;*ÁæÁ;ā;*/pÁ}ã^ &æ)Á&æ;◆^Á;^ç^¦^Á;}ã^Á&æ)Á&æ;◆^Á;^çã;¦œá;}Áæã; Açã; æã;}Áæã; Aæ; AÁ; [••ã;|^Áåæ; æ‡^Á; Ác@Á; [¸^¦ÆÑ/@Á;}ã^ • @ `|åÁ<u>[o</u>Áà^Á¸^|å^åÁ¸} Á[¦Áæ) ^Á^æ•[}È
- Œ OF, æ;•Á^] |æ&^Ác@Á} ã^Áa[|•Á, @}Á^] |æ&ã, *Ác@Á} ãç^•ÈÄÖUÁ>UVÁÜÒWÙÒÁ/PÒÁ SÞOZÒÁÓUŠVÙÁUÜ ÞŴWÙÈ
- ΗÈ OĒ•^{à|^Á}āç^•Ē\$ā`•@3;*•Ē\$ā[|o•Á\$a)åÁ;ŏ•Á\$o•Á;@};}Ā\$jÁÚæċo•ÁÛ^&@ā;}Á;Ā@@Á;æ)±æ¢Ē
- ۱È Q • czellÁc@ ÁI &\ ā * Á@ ¢Á * cÁ [Ác@æcÁ@ ÁlæcÁæ&^ Á -Ác@ Á * cÁā ÁI . zelå • Ác@ Á } ã^ È
- ĺÈ OE[]|^ÁŠ[&cãe^ÁGÏFÁ\¦Á^~~ãcæl^}cÁs[Ác@^æå•È
- îÈ V[¦~~Á, oÁ;Á, €ÁdÈÁà•ÈÁS}ã∧Á, ~•oÁ,ã, *Á¦^^|^È

AWARNING

ÖUÁÞUVÁ^Ë•^Ác@Á[&\ā*Á@¢Á;~œÁ;¦Á;[`}cā;*Ác@Á;}ã;^•ÉQÁ@¢Á;~óÀ^&[{^•Á[[•^É4;] ¦^``ā^åÁ¦^{ [çæþÁ-[¦Ál}ã^Ál^]|æ&^{ ^}oÁ[¦Áæ}^Á|c@¦Á!^æe[}ÊÁc@^Á,` •oÁà^Áåã&æåååÁæ}å ¦^]|æ&^åÁ,ão@Á,^,Á,˘o•È

50" FLAIL KNIFE BLADE REPLACEMENT (Medium Brush Grass)

- QÁ}ãç^•Ásd^Áåæ{æ*^åÁ; |Áàæå|^Á; |;}ÊÁs@^Á; ā|Á,^^åÁ; ÁàaÁ; ÁàaÁ; ÁàaÁ; Áæ•ÁæÁ,^ŒÄÜ^] |æ&ā; *ÁæÁ; ā * |^Á}ã^ &æ; A&æ; •^Á;^ç^|^Á}ã^Á&æ; A&æ; •^Á; ^ç^|,^Á;āā|ææā; }Áæ; åÁj[••āā|^Áåæ; æ*^Á; Ác@Á; [, ^¦ÈW@Á]}ã^ ΪÈ • @[`|åÁ<u>| c</u>Áà^Ả ^|å^åÁ| À[¦Áæ) ^Á^æ• [}È
- ÌÈ OE. æê•Á^] |æ&^Ác@Á} ã^Ás[|œÁ, @}Á^] |æ&ā,*Ác@Á} ãç^•ÉÖUÁ>UVÁÜÒWÙÒÁ/PÒÁ SÞØÖÒÁÓUŠVÙÁUÜ ÞŴWÙÈ
- JÈ OĒ•^{à|^Á}āç^•Ē\$ā`•@3;*•Ē\$ā[|o•Á\$a)åÁ;ŏ•Á\$o•Á;@};}Ā\$jÁÚæċo•ÁÛ^&@ā;}Á;Ā@@Á;æ)±æ¢Ē
- F€È Q • cællác@ Áí & ã * Á@ ¢Á * cá [Ác@æácó @ ÁlæácÁæ& Á Ác@ Á * cá Ác Ác , ælå • Ác@ Á } ã^ È
- FFÈ OE[]|^ÁŠ[&cãz^ÁGÏFÁ;¦Án``ãçæţ^}cÁ;Ác@;^æå•È
- FŒ V[¦~~Á, oÁ; ÁFG€ÁdĚÁà•ÈÁS}ã^Á; ~•oÁ; ã, *Á;^^|°È

ÖUÁÞUVÁ,^Ë•^Ác@Á[&\ā;*Á@¢Á;`•Á;¦Á;[`}ďa;*Ác@Á;}ãç^•ÈÁQÁ@¢Á;`óÁà^&[{^•Á[[•^Ê4;¦ ¦^~~ã^åÁ¦^{ [çæþÁ-[¦Ál}ã^Áı^]|æ&^{^}, Ál^|£Áæ}^Álc@\¦Á'^æ=[}ÊÃc@^Á(`•cÁà^Áåã*&æbå^åÁæ)å ¦^]|æ&^åÁ,ão@Á,^,Á,ઁo•È

50" FLAIL KNIFE BLADE REPLACEMENT (Heavy Duty Brush)

- FHÈ QÁ}ãç^•Ásèç^Ásaæ(æ‡^å/fi;/Ásæåj^Á;[;}Éfs@^Á;ā|/Á,^^å/fi;Ásc^Á^]|æ&^å,Ææ ÁsæÁ^oŒÄÜ;/]|æ&;ā;*ÁsæÁ;ā;*/Á;}ã^ • @ | áA | óa ^ A ^ | a ^ áA | A | A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A | A A |
- FΙÈ Œ. æê•Á^] |æ&^ÁœÁ } ã^Ás[|œÁ, @}Á^] |æ&ā,*ÁœÁ } ãç^•ĚÖUÁ>UVÁÜÒWÙÒÁ/PÒÁ SÞŒÒÓÁÓUŠVÙÁUÜ ÞŴWÙÈ
- FĺÈ
- FÎ È Q • cællác@ Áí & ã * Á@ ¢Á * cá [Ác@æácó @ ÁlæácÁæ& Á Ác@ Á * cá Ác Ác , ælå • Ác@ Á } ã^ È
- FΪÈ OE[]|^ÁŠ[&cãe^ÁGÏFÁ\¦Á^~~ãcæl^}cÁs[Ác@^æå•È
- FÌÈ V[¦~~Á, oÁg ÁFÏÎÁdÈÁà•ÈÁS}ã^Á; •oÁ, ã, *Á¦^^|^È

AWARNING

ÖUÁÞUVÁ,^Ë•^Ác@Á[&\ā;*Á@¢Á;`•Á{¦Á;[`}cā;*Ác@Á\}ãç^•ÈÁGÁ@¢Á;`óAà^&[{^•Á[[•^Ê4;¦ '\^``ā^åÁ'^{ [çæþÁ-[¦Á\}ã^Á\^]|æ&^{ ^}oÁ[¦Áæ}^Á|c@\¦Á'^æ=[}ÊAc@^^Á;`•oÁà^Áåã&æå^åÁæ}å ¦^]|æ&^åÁ,ãc@Á,^.Á,˘o•È

 $T \text{ add } c^{\wedge} \text{ add } 8^{\wedge} \hat{A} \hat{U}^{\wedge} \text{ add } \hat{A} \hat{E} \hat{G}$

©2015 Alamo Group Inc.

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63" BOOM FLAIL KNIFE REPLACEMENT

- FÈ QÁ}ãç^•Áœ¢^Áåæq æ‡^åÁ¸¦Áàæå|^Á¸[;}ÊÁœç^Á¸Ä¸IÁ¸^^åÁq¸Áæ^Áò^]|æ&¢åÁæé ÁæÁ^dÈÜ^]|æ&å;*ÁæÁ;å;*|^Á}ã^ &æ;Á&æě•^Ár^ç^;^Áşãà;æã;}Áœ;åŸ[••ãa|^Áåæé;æž^Áq¸Á;ÁœÁ;[¸^¦È
- QÈ $\nabla \bullet \wedge \{ a | \land A \} \tilde{a}_{\alpha} \wedge \bullet \tilde{E}_{\alpha} \wedge \hat{e}_{\alpha} \tilde{E}_{\alpha} = \tilde{E}_{\alpha} [| \bullet \land B_{\alpha} \rangle a / \bullet \bullet A_{\alpha} \wedge \hat{e}_{\alpha} \rangle A / \bullet A_{\alpha} \wedge \hat{e}_{\alpha} \} A / \bullet A_{\alpha} \wedge \hat{e}_{\alpha} \rangle A$
- IÈ OE[]|^ÁŠ[&cãe^ÁQÏFÁ;¦Á~`ǎcæ∮^}cÁs[Ác@,^æå.•È
- ÍÈ VỊ; "^Á, "CÁĘ ÁHÍ ÁZ VỀŚĆ Ú ỀŚS) Ã Á, " CÁ, Ã, * Á; ^ ^ | È

AWARNING

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.

AWARNING

Knives should not be welded on for any reason.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

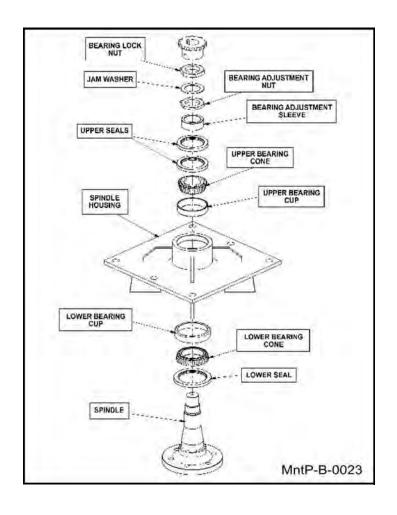
WARNING!ÁŒÁ; \^••ÁT WÙVÁà^Á •^åÁq Á¸\$•œ╡Áà^æá¸*Á&`]•ÉÀà^æá¸*Á&[}^•ÉÀò åÁ·^æфÈÖUÁ>UVÁ •^ÁæÁææ; { ^¦ q Á¸\$•œ╡Áæ&^•Éàà^æå¸*•ÉĀ; Á^^æфÈÓ @ Á¸æœ•^{ à|^Á; æ Áà^Áàæ; æ *^åÈÁ

Ó^Á`¦^Á[Á,^æÁ^^A,\];[c^&q]}Áæ)åÁ;c@¦Á;|[c^&q;^Á``q]{^}oÁæ-Á,^^å^åÁ,@}Á;[\];*Á;}Á;]ā;å|^Áæ•^{{à|^È

Tæāje^}æ)&^ÁÛ^&cāj}ÁiËGÍ

THE SPINDLE ASSEMBLY

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MntP-B-0024

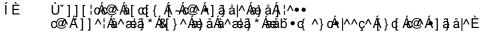
MAINTENANCE

UPPER

BEARING CUP

BEARING INSTALLATION

- FÈ Ú¦^••Áˇ]]^¦Áà^æðā,*Á&ˇ]Æş ([Ác@·Á•]ā,å|^ @)ˇ•ā,*E
- QÈ V";}Án@Án]ājå|^ÁQ\"•āj*Ájç^;ÁnanjåÁj;\^••Áāj c@Á[, ^;Ánànànj*Ás"]È
- IÈ Q•ca|Ác@Á•]ā,å|^Áā,Ác@Á@;*ā,*ÈÁŠā @|^]¦^••Ác@Á•]ā,å|^Áţ,Å^aæÁc@Á\$[}^Á;}q,Ác@ •]ā,å|^È



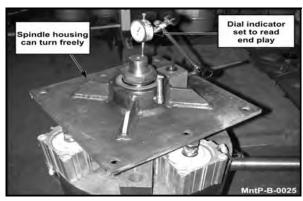


- ÏÈ Ú¦^••Ác@Áç [Á]]^¦Ár^æp•Áāj q Ác@Áj]ājå|^ÁQǔ•āj*ÈÁV@Áāj}^¦ÁjājÁ;Ác@Ár^æp•Á; ŏ•óÁà^ÁNÚÉÉæç æêÁ¦[{ c@Áà^æðā*ÊĀ[Ár¢&^••Á;àlá8æò;óÁsæò;Ár•&æð^Ě
- ÌÈ Q,• cællÁc@ Áà ^ælā * Áæåbŏ• q ^} cÁy * CÁÇ@ Á; * CDÁ• [Ác@ ¦^Áē ÁF ÉFÐ +Á&|^ææa; &^Áà^c, ^^} Ác@ Á, * cÁæà åÁc@ • |^^ç^ÈQ• cællÁc@ Áæq Á, æ• @ ¦ÊÏ |æ&ã * Ác@ Áœàà ÁB; q Ác@ Á ^^ Ë, æê ÈQ• cællÁc@ Áà^æðā * Á[&\ Á; * cÁç@ Á; * cD æ) å Á@æ) åÁçã @c^} Áæð æði,• cÁbæṭ Á, æ• @ ¦Áæ) åÁæåbŏ• q ^} cÁy * cÉÀÙ^^Ác@ Áṭ ||[¸ ā; * Á•^&æā; } Áṭ ¦Áà^æðā; * æåbŏ• q ^} cĒ
- JÈ Ú[•ãā]}Ác@Á•]ā¸å|^ÁQ;•ā¸*ÁQ;¦ã[}æ||^Á¸ão@ÁœÁå;æã¸ÁQ;|^Á;;å>}৫°åÁ‰]+ÈÁÕ;|^æ•^Ác@[`*@Ác@Á^;\ ¸ão@Á⁄ã^¦ÁÙ]ā¸å|^ÁŠ`à;ã&æ¸óQ;æċó¸;°{à^;ÁÉ]Í|€€€€ÐÁ;¢ā¸Á@;A*;|**^•Á;[{Ác@Áå;æã¸ÁQ;|^È
- F€È Q• cæ|Ás@Á| * Á§ d Ás@Ás| æ§ Á@|^È

BEARING ADJUSTMENT

- CÈ Ú[•ãá]}ÁæÁ(æ*)^cæðAàæ•^ÁåãæþÁð,åäðææ[¦Á[}
 c@Á[*c*!Áåãæ(^c*!Á[*Á@^Á*]ð,å[*Á@*•ð,*È
 Š[&æ*Ác@Á*)åÁ[*Ác@ÁåãæþÁð,åäðææ[;Áæ*æð,•c
 c@Á|ææÁ*)åÁ[*Ác@^Á*]ð,å[^Á*@ææÆV@Áåãæþ
 ð,åäðææ[;Á,3]áÁ}[,Ác@^Á*]ð,åæ*;|^Áæ&*&`;ææ*|^
 àåäðææ[;Á,3]áÁ}[æÉ
- HÈ Vã @^}Ác@^Áà^ædā*ÁæåĎ•d(^}cÁ}`cÁ`}dā c@\^ÁãÁÆFGÁā&@Á[[ç^{^}oÁ]@}Ác@ •]ā¸å|^Á@`•ā¸*Áā¸Á¸¦ā^åÁ`]¸æåÁæçæÂ√;[{ c@^Áçã^Áæç•E
- IÈ Y@}Ác@¦^ÁnáÁÈEFCÁng&@Á¦^^Ánj|æêÁnà^c,^^} c@Ánjajå|^ÁnajåÁqQˇ•āj*Ёdnj•cæ||Ác@Ánà^æðnj*Ánj&óAç@ana\ÁnjŏcAnàÉnp[|åÁc@Áænábŏ•cāj*ÁnjŏcÁn^&č¦^|^Ánanjå cāt@^}Ác@Ánj&\ÁnjŏcÁnjÁndEÁcÉnà•Ènj√Ánj¦´ŏcÉnà•Ènj√Ánj¦´ŏcÉnà•Ènj√Ánjà•Ènj√Ánjà•Ènj√Ánjà*
- ÍÈ Œơ\¦Ác@Á[&\Á,ˇơÁn Ácỡ @^}^åÊcœ\¦^Á(ˇ•ơÁn ÁÈŒEFÁn & @Á(ÁÈŒEHÁn) & @Á(Á¦^^Á) |æêÁ, @}Ádð @d^Á) ¦^ð, ¦^ð, 'Å [}Ác@Á]ð, å|^ÁqQˇ•ð, *ÈÁ

Ó[[{ Tæaa, c^}æ} &^Â\u^&aa, } Á\ ËEÏ



Boom Cylinder Removal and Replacement Instructions

- FÈ Ô|^æká@^Áæt^æá[, Áæt|Á,^!•[}}^|Áà^-{;'^Á[, ^|ā, *Ás@-Áà[[{ Á; [, ^|Á@-æåÈ
- Q![{ Ás@ Átlæ&d; | Án^ærÁ, ãr@Á:[` | Án^ærÁs^|cÁæ• c^} ^ å Áæe[` } å Á:[` ÉÄ|; ^ | Ás@ Ás[[{ Á; [, ^ | Ác@ æå Át] Ás@ Á * ' | ` } å ÉÄÖ¢c^} å Ás@ Ás[[{ Átl Ás@ Á` | c@• cÁ^ææ&@Ásæ) å Átl , ^ | Ác@ Á; [, ^ | Ác@ æå Átlææfi, } Ås@ Á* ' | ` } å ÉÄÖUÁÞUVÁ ææc^{ }] cÁt[Án^] |æ&^Ás@ Á&c@ Á&c@ Ás@ Ás@ Ásæå ^ å Átl Ásæ,] [| cÁtl æð] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ,] [| cÁtl ēæ, •
- HÈ Ù@ơÁ, --Ás@Ádæ&q[¦ÉA\}*æ*^Ás@Á,æd\āj*Ásilæd^ÉÁ, |æ&^Ás@Ádæ&q[¦Ádæ)•{ã••ã[}ÁsjÁs@Á,æd\Áj[•ãã[}Éæ)åÁ ¦^{[ç^Ás@Á^^Ás^4['^Ásã{[`}cā]*È
- IÈ OE[[Ás@A^•c^{A[Ás[[|Ás[[|Ás[A][[{Ás^{]|}^kaec'|^Ás^{-{|^AÁ^{[cas + Asa}^A@a*lae'|a&As[{][}^}c
- ÍÈ Y^ælÁnæ^cÂt|æ∙•••Áæ)åÆa[]^}^dæà|^Át|[ç^•Á,@^}Á,[¦\ā,*Á,ão@Á@妿ĕ|a&A@(•^•Áæ)åÁãoā)*•È
- ÎÈ Ü^|^æ•^Áæ||ÁţāļÁ;|^••ˇ|^Á+[{Ás@Á@å|æĕ|a8xÁ8āl&°ãoÁa^Á;æ)*æ|^Á+d[\āj*Áræ&@Áçæ‡ç^Ár^&caf}}Ájāc@Ás@Ádæ&Ë d[|Ár}*āj^Aţ~ÆANdājā^Ás@Á;æ)*æµÁţç^||äā^Á*}&caṭ}ÆAÁ@Á;ãoÆáA°*āj]^åÁjāc@Áæ)Ár|^&da8xÁţç^|Á@å|æĕ|a8A çæţç^È
- ÏÈ Woājā^Áaj[&\•ÊÁase&\Árcæ)å•Á;¦ÁseÁrǎāaæà|^Á;ç^¦Á@ræåÁ@lāroÁ[Árˇ]][¦οÁs@rÁ;^Áz@rÁa[[{Ár^8cā[}Áse)åÁ |^{[ç^A;|^••ˇ|^Á4;|{Ás@rÁscî[ā;å^¦Á;[ˇ}cā]*Á;ā]•È
- ÌÈ Ô@&\Á[Á^^Á;@eÁ@Á@Á&^|ā]å^¦Á[Áà^Á^]|æ&^å/ásÁ;[cÁ}å^¦Á;|^••*;|^Ás^Á;[çā]*Á;@Á&^|ā]å^¦Ájā]•Ás^Á; @æ)åEV@Ájā]•Ás@*JaÁs^Áj[[•^Ásæ)åÁs@*]åÁs|@å*Á;[{Ás@Ajā}Ás[¦^Áræa;āPEQÁ;@Ájā]•Ásc}Ásā;@Áse)Ë }[cÁs^Áj[ç^åBÁs@Ás^[ā]å^¦ÁjæêÁs^Á}å^¦Áj*o•*;|^ETæ\$^Á*;|^Ás@Ás[[{Ás[{][}^}o*Ásc}Áj;[]^¦]^A;"]Ë][¦c^åÁse)åÁs@æÁs@Áj¦^••*;|^ÆsÁ^[āç^åÁ;[{Ás@Ásā&*ãEÁ

- FCÈ Ü^{ [ç^Ás@Ásc | ā å^¦Á,ā •Á œdcā,*Á ã @Ás@ÁÜUÖÁN} å Ásc | ā å^¦Á,ā jEÁT æà^Á* ¡^Ás@Ásc | ā å^¦Ása Á; []^!|^Á
 •*]][¦ơ å Bắn à Á^{ [ç^Ás@Ásæ ^Án} å Ásc | ā å Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc | ā á Asc |
- FHÈ T^æ•` \^Ás@ Ásã cæ) &^Ás^c, ^^} Ás@ Ásî |ā, å^\;Á,ā, ÁQ |^• Ásē) å Á\¢c\} å Ás@ Á,^¸ ÁSî |ā, å^\;Ás@ ÁS[\\ 8c4\^} * cæ\
] \all \A[Ásæc\{] cā, * Ásē) ÁŞ, cæ\|ææā] } È
- FIÈ Q•cællÁc@Á,^, Á& [ð] å^\Á§ Á, |æ& Áæ) åÁ§•cællÁs[c@Á& [ð] å^\Á, ð]•Áæ) åÁ^cæði \bar{a} *Áæèå, æ^È
- FÍÈ Ü^{ [ç^Ás@ Á; ^ cælÁsæ] Ása} å Á^Ë; cælÁs@ Á@ 妿 | 38Á@ ^ È
- $\hat{\mathbf{F}}\hat{\mathbf{E}} = \hat{\mathbf{O}} \otimes \mathbf{A} \hat{\mathbf{A}} \otimes \hat$
- FÏ È Ô|^ækfo@ Áse\^æfi -Áse||Á,^¦•[] Á; ¦ā; kfi Á; æcē; * Ás@ Áslæ&cf; ¦È
- FÌÈ $\hat{O}[\} \bullet \times |O(A) \otimes A = A = A \times A$
- $FJ \dot{E} = \mathcal{O}[\{\dot{A}_{0} \dot{A}_{1}^{\dagger} \dot{A}_{2}^{\dagger} \dot{A}_{1}^{\dagger} \dot{A}_{2}^{\dagger} \dot{A}_{1}^{\dagger} \dot{A}_{2}^{\dagger} \dot{A}_{1}^{\dagger} \dot{A}_{2}^{\dagger} \dot{A}_{1}^{\dagger} \dot{A}_{2}^{\dagger} \dot{A}$

- GOÈ W][}Á&[{]|^ca[}Á;-Ás@Á^~~ã^åÁ^]æa[•Á^c;|}Á[ÁUc^]ÁÀÁFÎÁ[Á^&@&\Ás@Á&^|ā]å^!Á[¦Á;![]^!Á[]^!æË ca[}È

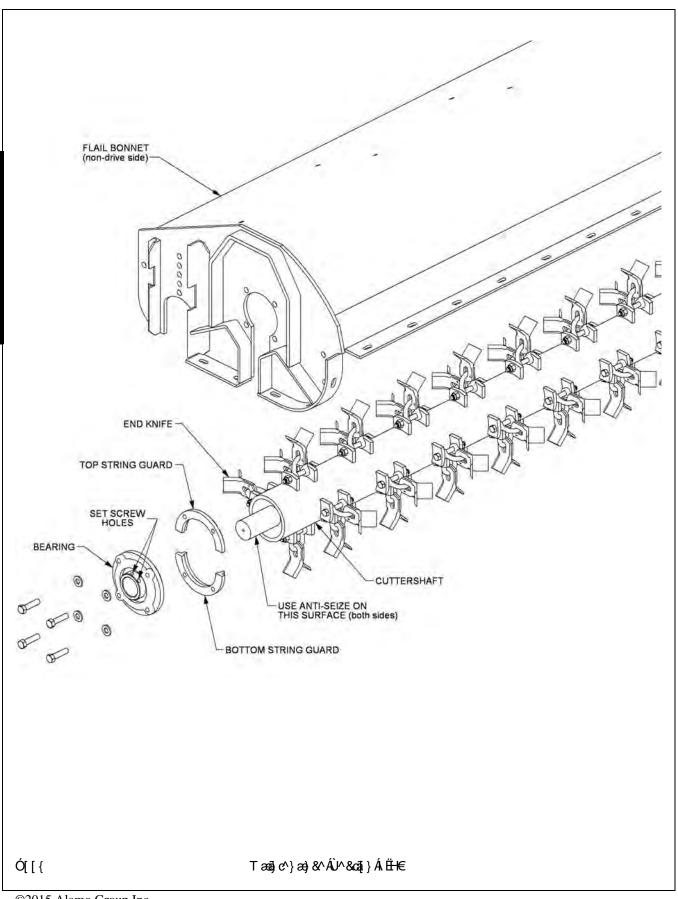
Ó[[{ Tæng c^}æ) &^AÛ^&cq[} Á ËÈÌ

CUTTERSHAFT BEARING REPLACEMENT

- FÈ Ü^{ [ç^Á\¢ã cã * Á& cc^!• @eedÉà^ædã *• Áæ} åÁdã * Á* æbå• È
- CÈ Tæ\^Á`¦^Ás@æÁs@Á\}åÁ\}ãç^•Á\}Á\æ&@Á\}åÁ, Ás@Á&`cc^\•@æAæ\^Á\¦ā\}c^åÁæ Á @] }È
- HÈ CI_{1} | $^{\hat{A}}$ $ca^{\hat{B}}$ $^{\hat{a}}$ $^{\hat{A}}$
- IÈ Q• cæ|Á,[} Ëå¦ãç^Á;ãå^Áà^æ;ã * Áã• cÈ
- ÍÈ Q,•cæ|Ás@Áq[]Á;-Ás@Á;dā;*Á*æåÁ;}Ás@Á,[}Ëå¦ãç^Á;ãå^Áã•cÈÁV,•^ÁĞ[&cãc^Ác∃FÁ;¦Ár°čçæ‡^}cÁæ)åÁ d[¦``^ÁQÍÁdËàÁ;¦Ár€I-dËàÁsÁ[`Á.•^Ása)Ár¢c^}•ā[}DÈ
- ÎÈ Q•cæddá@Aà^ædā,*Áæd; AÁd; Adā,*Á* ædåÁr} Ác@Aåd; Ac@Aåd; Ac@A
- ÏÈ Ô^} ơ\'Án@Á&` ơo\'• @œơÁn^c, ^^} Án@Án dāj*Ár` æbå•ÈÁÁN•^ÁŠ[&não ÁGÏFÁ;\Án`` ãçæþ^} oÁÁæ) åÁn[;\``^Á QJÍ-aĒàÁ;\Ár€I-aĒàÁsÁ[`Á.•^Áæ)Án¢ơ\}•ā[}DÁn@Án[]Án dāj*Ár` æbåÁn;}Án@Ás¦ão,^Án ãá^È
- ÌÈ Q,•cæ||ÉÁ.•^ÁĞ[&cãe^ÁGÏFÁ;¦Án``ãçæ‡^}dÁa;¦``^ÁQÍ-cЁàÁ;¦ÁF€I-cЁàÁşÁ[`Á.•^Áæ;Án¢c^}•ā[}DÁ c@Ás[cɑ[{Á:dā;*Án`æ;åÁ;}Ás[c@Á:ãa^•È
- JÈ Tæl^Áı`¦^Ás@Ás`cc^¦•@æcÆsÁs^}c^¦^åÈÁU}Ás@Á;[}Ëå¦ãç^Ájãå^ÉÁzða@^}Á;}^Ás^Á^oÁs&l^¸ÁşÁs@Ás^ædð;*Á;}q[Á
 c@Ás`cc^¦•@æcÈ
- FFÈ Ü^] |æ&^Ác@Á^cÁ\&\^, ÁB,Ác@Áa^æda,*ÉÁ.•^ÁŠ[&cæ*ÁGÏ FÁ; ¦Á*` ãçæ}^} åÁæð @^} Á; { (Ác@Á&` cc^¦• @æóÁ c@[* @Ác@Á,^, ÁQ| |^È
- FŒ Ü^{ [ç^Ás@ Á; c@ ¦Án^oÁs & l^, Áse) åÁn] ^æxÁs@ Áå¦āļā, *Á; |[&^å ` |^ÁÇÙc^] ÆF€DĚÄÜ^] |æ&^Ás@ Án^oÁs & l^, Áse Á • cæc^åÆj ÁÙc^] ÆFFÈ
- FHÈ Ü^]^aæÁc^]•ÁJÁc@[**@ÁFGÁ[}Ác@ Á&¦ãç^Á;ãå^È
- FIÈ Õ¦^æ•^Áa[œÁa^æð]*•Á¦;[]^¦|^È

See illustration on next page

Tænājo^}ænj&^Áù^&cnā[}ÁiËGJ



\@Áq ||[, ā * Á•^|çæv•Á•@* |åÁà^Á]^| ; |{ ^âÁàæi ¼; Á^ç^;^Áì Á@*;•Á[Á•^|çævÆ; Æ, [|[, ā * Ác@Áâ^cæi^å { æi o^} æi & o^] æi & o

´´´´´´´ÁÁÔ˙œ^¦•@œoÁæ)åÁ⁺¦[ˇ}åÁ[||^¦kÁÕ¦^æ∘^Áæ•Á∮•dˇ&c^åÁ∮Ás@Áå^ææ∮^åÁ;æá∮c^}æþ&^Ár^&æá[}È

DAILY MAINTENANCE SCHEDULE

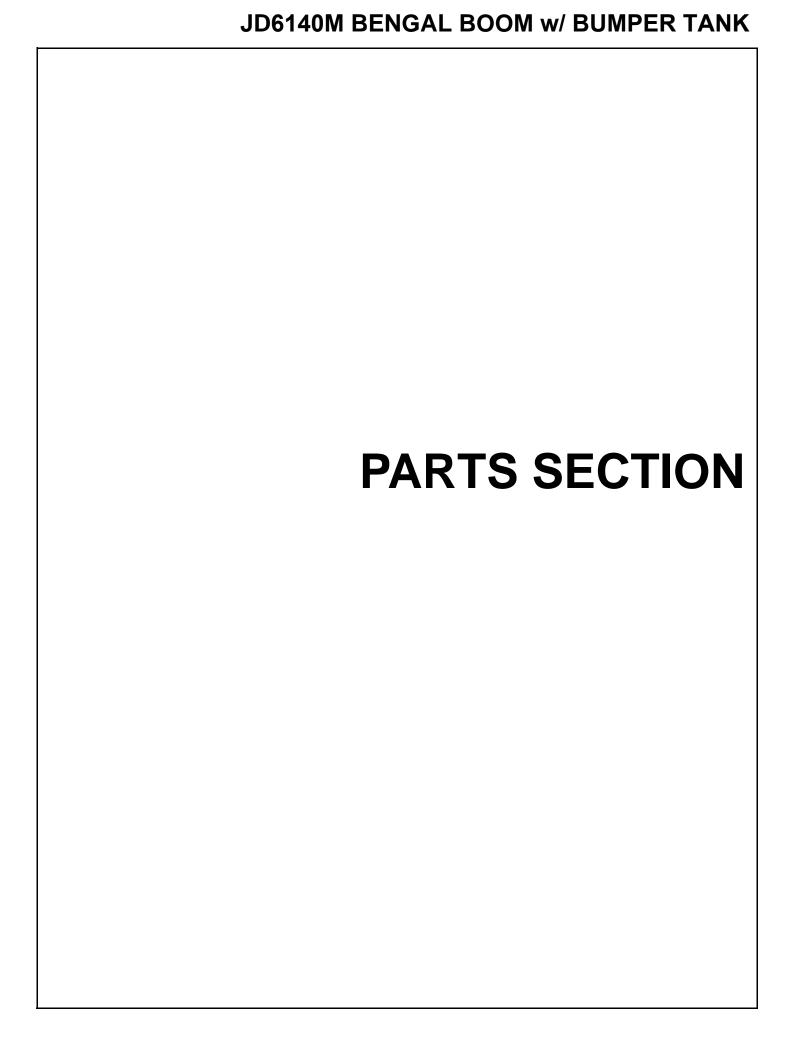
•^&call}E

 $T \approx 4 e^{\lambda}$ $e^{\lambda} \approx 4 e^{\lambda} = 4$

EEV @ A A æ ^ A æ ê A a ^ A æ ê A a A æ ê A a ê

Tænagio^}æng}&^ÁÛ^&cna[}ÁiËHF





PA	ART NAME INDEX
RCTVU'QTFGTRPI 'I WAF COMMON MONOMINION MONO	5
VTCEVQT'O QWP V'MK(000000000000000000000000000000000000	6
DWO RGT"VCPM'O QWP V"Y KVJ "J [FTCWNKE U00000	8
ECDNG'*O CP WCN+'NK-N'XCNXG'7'URQQN	:
7'URQQN'ECDNG'EQP VTQN'O QWP VIIIIIIIIIIIII	32
P QVGU'3000000000000000000000000000000000000	33
	2872425: (1000000000000000000000000000000000000
DQQOTGUV''/'5'RVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	36
P QVGL000000000000000000000000000000000000	37
82"IP TQVCT[TQVCVIPI OQY GT'CUUGO DN[00	38
82" IP "TQVCT["OQYGT" VTGG" CUUGODN[000000000	3:
RWO R'FTKXGUJ CHVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	42
RQN[ECTDQPCVG"UCHGV["Y IPFQY()))	43
RCPQTCO KE "RQN[ECTDQPCVG"Y KPFQY0000000	44
Y J GGN'Y GK J Vooonoonoonoonoonoonoonoonoonoonoonoonoo	45
P QVGU'4000000000000000000000000000000000000	46

PARTS ORDERING GUIDE

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

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- 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.
- 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.
- Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
 - 6. The manufacturer reserves the right to change prices without prior notice.

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

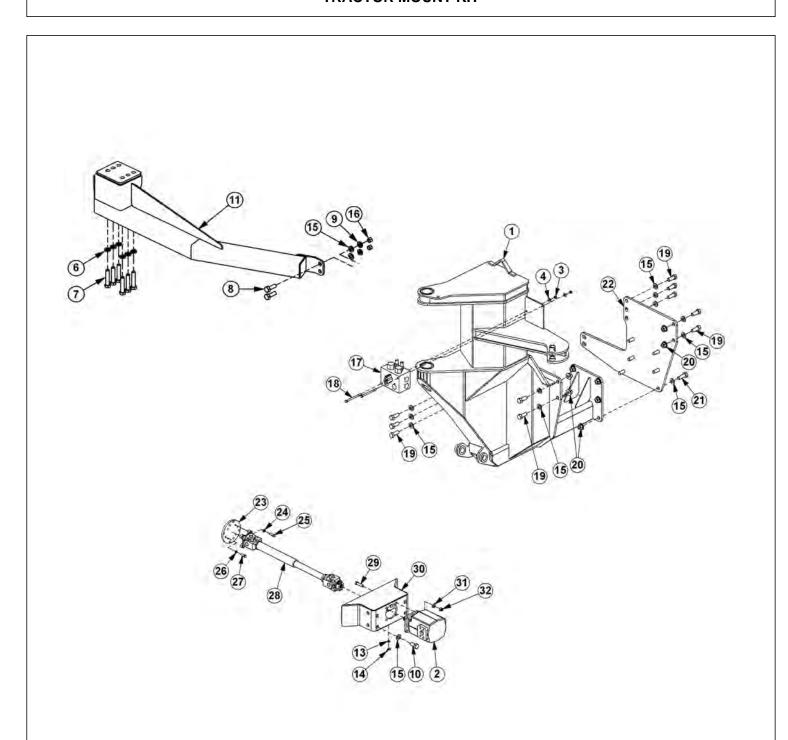


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

TRACTOR MOUNT KIT



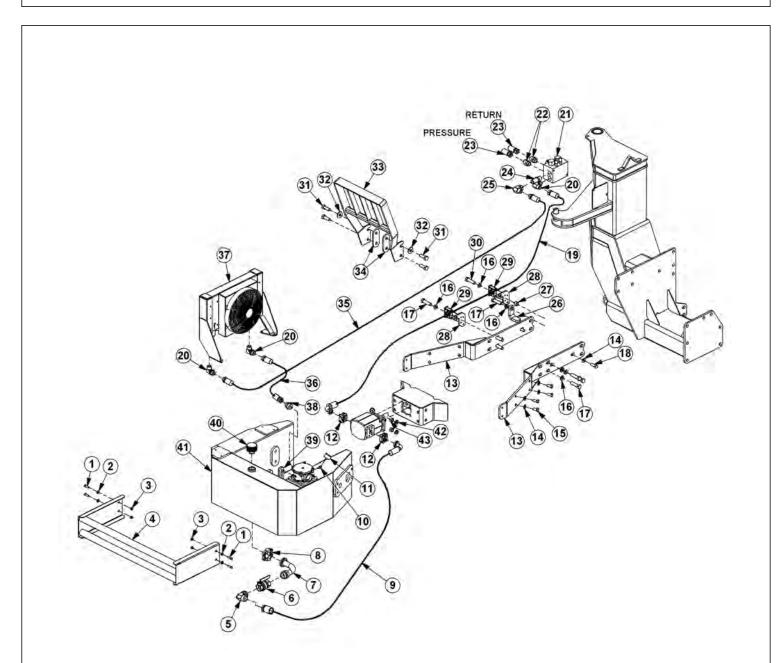
ITEM	PART NO.	QTY.	DESCRIPTION
3	2852246;	3	OCIPHTCOG
4	45374	3	RWO R
5	43849	34	P[NQEMPWV.'51: \$"PE
6	44238	34	HNCVY CUJ GT. '51: \$

TRACTOR MOUNT KIT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
7	4385;	4	ECRUETGY .'51: \$'Z '5/316\$'PE
8	46: : 3	8	NQEMY CUJ GT."42O O
9	494: 3	8	ECRUETGY .'42O O 'Z '82O O .'407R
:	43: 55	4	ECRUETGY .'516\$'Z'4/316\$'"PZ
;	43;;5	4	NQEMY CUJ GT'516\$'I T:
32	46: 82	6	ECRUETGY .'42O O 'Z '62O O .''407R
33	28522476	3	CZNG'DTCEG.'TJ
35	44236	3	HNCVY CUI GT. "316\$
36	5473;	3	Y IP I 'P WV.'316\$
37	55::2	4:	HNCVY CUI GT."516\$"PE
38	43: 47	32	J GZ 'P WV. '5 16\$'P E
39	287322: 5	3	DTCMG"XCNXG
3:	43866	4	ECRUETGY .'51: \$'Z'7\$'PE
3;	53953	32	ECRUETGY .'420 O 'Z '720 O .'407R
42	53944	32	J GZ 'P WV. '420 O . 'HNP I . '407R
43	494: 3	8	ECRUETGY .'42O O 'Z '82O O .'407R
44	28624462	3	WRTK J V."NJ
45	56; ; :	3	URCEGT.'FTKXGUICHV
46	43;:;	6	NQEMY CUJ GT.'9138\$
47	438: 2	6	ECRUETGY .'9138\$'Z'3/316\$'PE
48	548; 3	6	NQEMY CUJ GT."320 O
49	45335	6	ECRUETGY .'320 O 'Z '520 O .'307R
4:	56;;;	3	FTKXGUICHV.'WIQKPV
4;	43955	6	ECRUETGY ."314\$"Z "4\$"PE
52	56; ; 5	3	RWO R'O QWP V
53	28755226	6	HNCVY CUI GGT. "314\$"PE
54	43949	6	P[NQEMPWV.'344\$'PE

BUMPER TANK MOUNT WITH HYDRAULICS



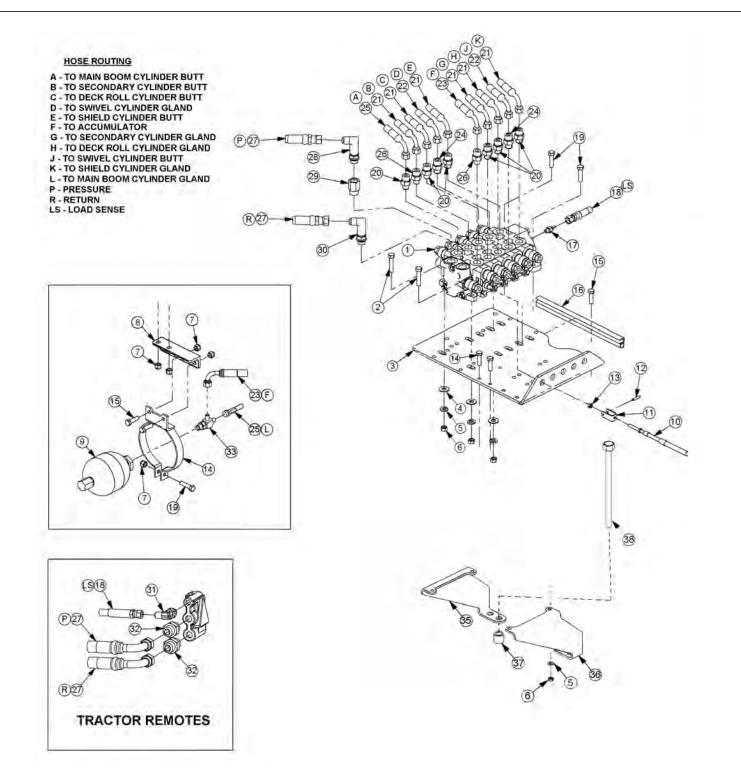
ITEM	PART NO.	QTY.	DESCRIPTION
3	438: 2	6	ECRUETGY .9138\$'Z '516\$'P E
4	44239	6	HNCVY CUI GT.9B8\$
5	43899	6	P[NQEM'PWV.9138\$."PE
6	285: 2293	3	I WCTF.TGU.DWORGT
7	56877	3	GNDQY .3"314\$"QTD'Z"3"314\$"OL
8	5652;	3	DCNN'XCNXG'3'3'4\$'HQT
9	565:;	3	GNDQY "3"314\$"QTD'Z "%54HNI "; 2ã
:	VH6653	3	MKV.HNCPI G.%54
;	28722997	3	J QUG'4\$'Z'4;\$
32	VH66: 9	3	UVTGGV'GNDQY .31: \$'Z'67ã

BUMPER TANK MOUNT WITH HYDRAULICS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
33	8V286;	3	HKNVGT'I CWI G
34	VH6: 74	4	MKV.HNCPI G.%42
35	285: 2292	4	O P V.TGU.DWO RGT
36	55986	32	HNCVY CUJ GT.71: \$
37	439: 2	:	ECRUETGY .71: \$'Z'3'316\$.PE
38	55::2	:	HNCVY CUI GT.516\$
39	4: 5; ;	9	ECRUETGY .420 O 'Z': 20 O .407R
3:	44645	4	ECRUETGY .380 O 'Z '720 O .402R
3;	28722995	3	J QUG.''3\$'Z''; 2\$
42	56339	5	GNDQY .3\$'O D'Z '3\$'O L
43	287322: 5	3	DTCMG"XCNXG
44	55777	4	CFCRVGT.3\$"O D'Z "3\$"O L
45	56867	4	J QUG.3\$'Z'3: 4\$
46	54: 8;	3	P KRRNG.NQP I .3\$O QT'Z'3\$'O L
47	5547;	3	GNDQY .3\$'O L'Z "3\$"HIZ "; 2ã
48	28633878	3	QUU'UVQR
49	46: 6;	3	URCEGT'3'316\$"Z"71:\$
4:	56848	4	VWDG'ENCO R'O P V'DTCEMGV
4;	28727239	4	ENCOR'MKV'3\$
52	5292:	3	ECRUETGY .420 O 'Z "; 20 O .407R
53	43: 55	6	ECRUETGY .516\$'Z '4'316\$.PE
54	44243	4	HNCVY CUI GT.516\$
55	54959	3	I TKNN'I WCTF
56	28622387	4	URCEGT'RNCVG
57	28722996	3	J QUG.3\$'Z'332\$
58	28722994	3	J QUG. '3\$'Z '55\$
59	28922388	3	EQQNGT"HCP
5:	56286	3	CFCRVGT.3'316\$'O QT'Z '3\$O L
5;	28727289	3	UNIJ V'I CWIG
62	28727299	3	DTGCVJ GT'ECR
63	56888	3	DWO RGT'VCP MTGU
64	43; 55	6	NQEMY CUI GT.516\$
65	43: 47	6	J GZ 'P W.516\$.P E

CABLE (MANUAL) LIFT VALVE 5 SPOOL



ITEM PART NO. QTY. DESCRIPTION	Y. DESCRIPTION	QTY.	PART NO.	ITEM
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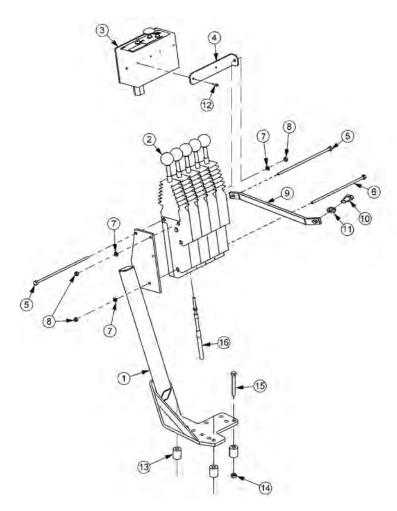
3	2872425:	3	XCNXG.ECDNG.7"URQQN
4	43855	4	ECRUETGY .51: \$'Z'3/516\$.PE
5	56844	3	RNC VG.XCNXG.TGCT 'O P V

CABLE (MANUAL) LIFT VALVE 5 SPOOL

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
6	44238	6	HNCVY CUI GT.51: \$
7	43;::	:	NQEMY CUI GT.51: \$
8	43847	:	J GZ 'P WV.51: \$.P E
9	43849	7	P[NQEM'PWV.51: \$.PE
:	28682294	3	DTMV
;	46522	3	CEEWO WNCVQT
32	28727322	7	EDN.EP VTN.32: \$
33	8V6633	7	ENGXKUEDN'EVTN.5138\$
34	8V5239	7	TQNNRIP.5138\$'Z'3\$
35	43722	7	J GZ 'P WV.3 16\$.P H
36	45:::	3	DTMV.CEEWO WNCVQT
37	43853	:	ECRUETGY .51: \$'Z'3/316\$.PE
38	4: 275	3	VTO 'NM; 138Z31: HP 'RDN, 322/31:
39	54; 23	3	CF CRVGT.51: \$0 QT 'Z '51: \$0 L
3:	28722572	3	J QUG.316\$'Z'48\$
3;	43854	5	ECRUETGY .51: \$'Z'3/314\$.PE
42	55493	8	CF CRVGT.3 4\$0 QT'Z '51: \$0 L
43	287228: 9	8	J QUG.316\$'Z'48: \$
44	287228; 9	4	J QUG.316\$'Z'432\$
45	55966	3	J QUG.316\$'Z'56\$
46	565; 8	4	CF CRVGT.TUVTEV.@8\$'QWV
47	287228::	4	J QUG.316\$'Z'4::\$
48	28724258	4	XNX.EJ GEMY 1028\$'QTH314\$O QT
49	56834	4	J QUG.314\$"Z "56\$
4:	554; 5	3	GNDQY .NQP I
4;	5489:	3	CF CRVGT.71: \$O QT'Z "3 14\$HQT
52	555: 5	3	GNDQY .NQP I
53	28725235	3	GNDQY .360 O 'O QT'Z '7 138\$0 L
54	55685	4	CF CRVGT.440 O 'O QT'Z '314\$O L
55	2872524;	3	VGG.T WP
57	28632652	3	O QWP V. "XCNXG." NGHV
58	2863264;	3	O QWP V."XCNXG."TKLJ V
59	5673;	3	URCEGT.'3/316\$'Z'35138\$'Z'3/31:\$
5:	28752736	3	ECRUETGY .'3: O O 'Z '4; 2O O .'407R

5 SPOOL CABLE CONTROL MOUNT

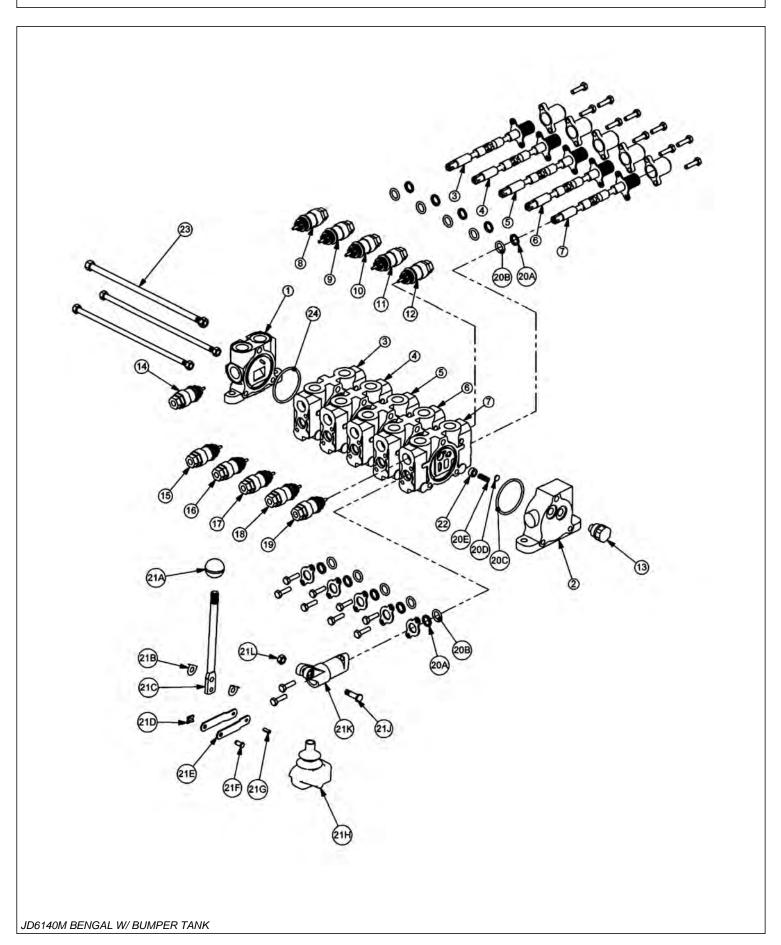


ITEM	PART NO.	QTY.	DESCRIPTION
3	45: 87D	3	EDN'EVTN'O V'DTMV
4	8V3473	7	EDN'EVTN'DQZ.3: 2'FGI
5	28732322	3	UY KVEJ DQZ.DQQO
6	566; 8	3	DTMV.UY KVEJ DQZ.WPK
7	56554	4	ECRUETGY .316\$'Z''; /316\$.PE
8	4376:	3	ECRUETGY .316\$'Z'; \$.PE
9	43;:8	5	NQEMY CUJ GT.316\$
:	43747	5	J GZ 'P WV.316\$.P E
;	52972C	3	UWRRQT V.O P V.EP VTN'DQZ
32	55756	3	ECRUETGY .320 O 'Z '420 O .307R
33	548; 3	3	NQEMY CUI GT.320 O
34	8V5; 73	4	UETGY .О СЕЈ КР G": 154\$"Z "314\$.РЕ
35	492: 4D	5	URCEGT
36	43849	5	P[NQEMPWV.51: \$.PE
37	43858	5	ECRUETGY .51: \$'Z'4/314\$.PE
38	28727322	7	EDN.EP VTN.32:

NOTES 1

	NOTES
JD6140M BENGAL W/ BUMPER TANK	

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502038



CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502038

ITC . *	DADTNO	OTY	DECORIDEION
1 TEM 3	PART NO.		DESCRIPTION HENCY/CDE/FE/COVCT
	537; 7	3	IP NGV'CP F 'EQXGT
4	537; 6	3	GPF 'EQXGT.'NQCF 'UGP UG
5	537; 9	3	XCNXG'UGE VKQP "*F QWDNG'CE VKP I ."EGP VGT "URT KP I +
6	537; 9	3	XCNXG'UGE VKQP "*F QWDNG'CE VKP I ."EGP VGT "URT KP I +
7	537; 9	3	XCNXG'UGEVKQP'*FQWDNG'CEVKPI.'EGPVGT'URTKPI.+
8	537;:	3	XCNXG'UGEVKQP'"*FQWDNG'CEVKPI.'EGPVGT'URTKPI.'O GVGTGF+
9	537; 9	3	XCNXG'UGEVKQP'*FQWDNG'CEVKPI.'EGPVGT'URTKPI+**TGOQXG'UJWVVNG'FKUE+
:	VH6434	3	TGNKCH'XCNXG. '422'RUK
;	VD3239M	3	TGNKGH'XCNXG."4372"RUK
32	VD3239L	3	TGNKGH'XCNXG."3: 22'RUK
33	287242: ;	3	TGNKCHXCNXG. "4622"RUK
34	447::	3	TGNIGH'XCNXG.'722'RUK
35	2872528:	3	%'Q/TKPI 'RNWI
36	8V642;	3	%2'Q/TRPI 'RNWI
37	287242: 7	3	TGNIGH'XCNXG.'5222'RUK
38	VD3239H	3	TGNIGH'XCNXG."3722"RUK
39	VD3239H	3	TGNIGH'XCNXG."3722"RUK
3:	28724342	3	TGNKGH'XCNXG.'4322'RUK
3;	447: :	3	TGNKGH'XCNXG.'722'RUK
42	537; 5	7	XCNXG'UGCN'MKV"*HQT''QP G'UGEVKQP+
42C	/////	4	Y KRGT
42D	/////	4	Q/TIPI 'UO CNN
42E	/////	3	Q/TIPI 'NCTI G
42F	/////	3	U WVNGF KJE
42G	/////	3	URTIPI
43	VD3239N	7	NGXGT"MK/"*HQT"QP G"UGE VKQP+
43C	/////	3	NGXGT"MP QD
43D	/////	3	NGXGT
43E	/////	4	NGXGT"Y CUJ GT
43F	/////	3	NGXGT'ENKR
43G	/////	4	NKP MCI G
43H	/////	3	NGXGT'R₩P
43I	/////	3	TQNN'RIP
43J	/////	3	NGXGT'DQQV
43L	/////	3	NGXGT'DQNV
43M	/////	3	NGXGT'F WUV'EQXGT
43N	/////	3	NGXGT"P WV

JD6140M BENGAL W/ BUMPER TANK

7

3

EQORGPUCVQT VKG'TQF'MKV

 $\ensuremath{Q/T\mbox{\sc in}\mbox{\sc in}}\ensuremath{I}$."NCTI G

53825

46436

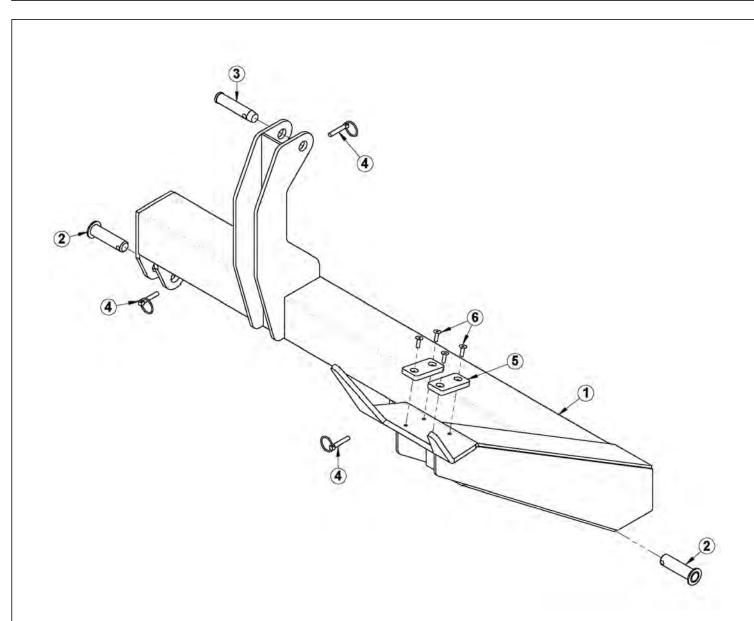
VD3239X

44

45

46

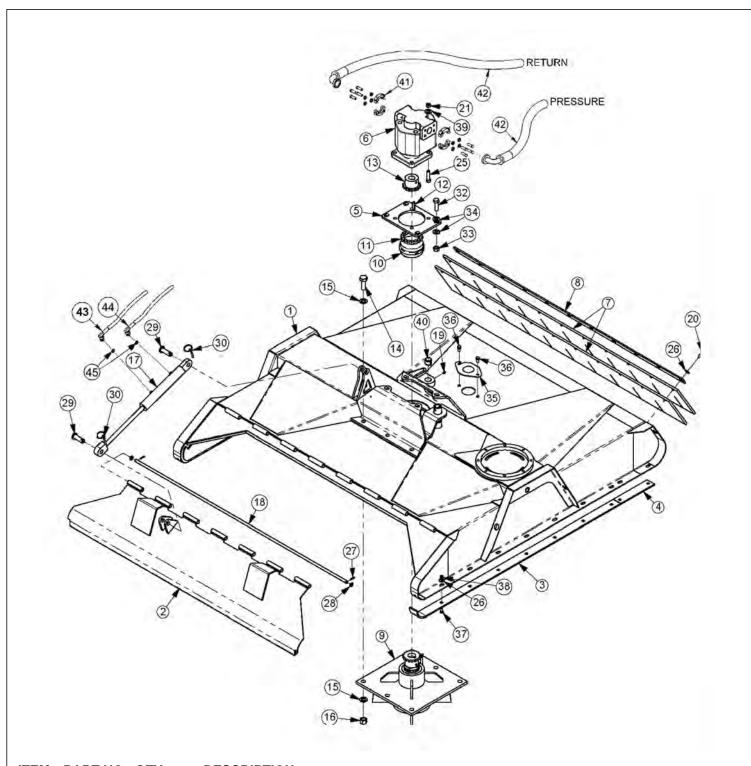
BOOMREST - 3 PT



ITEM	PART NO.	QTY.	DESCRIPTION
3	28532357	3	DQQO TGUV.UVF .5RP V
4	VH342	4	RKP.ECRRGF.3/31: \$"Z"5/91: \$
5	VD3258	3	RKP.UGE 'DQQO 'UY KX.3\$'Z '6/33138\$
6	VH3365	5	RKP.N[PEJ.9138\$'Z'4\$
7	2874229:	4	UVT IR.TGUV
8	4: 956	6	ECRUETGY .HNVIUMV'J F .516\$'Z '3\$.PE

NO	ΓES	

60 IN ROTARY ROTATING MOWER ASSEMBLY



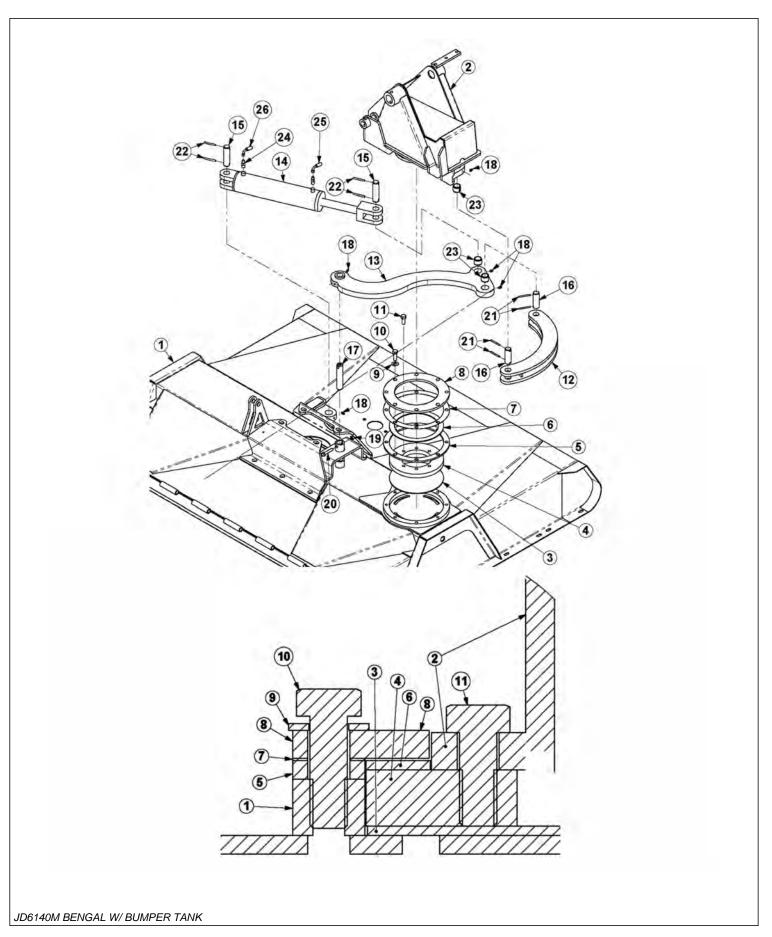
ITEM	PART NO.	QTY.	DESCRIPTION
///	28963294	/	FGEMVTD82.TQV.ERNV
3	28542382	3	FGEMVTD82.TQV
4	28542384	3	UJ KGNF.VTD82.TQV
5	55999	4	UMNF "UJ QG.72\$"TVT[

60 IN ROTARY ROTATING MOWER ASSEMBLY

Continued...

	ITEM	PART NO.	QTY.	DESCRIPTION
	6	28623467	4	UMF 'U QGVTD82.TQV
	7	55998	3	O QVQT'O QWP V.RNCVG.72\$'TVT[
	8	28726233	3	O QVQT.*O 587"/"3/314\$"T GCT+
	9	2874245:		HNCR.F GHNGE VQT
	:	28V2: 45	3	DCT.HNCR.VO 82
	;	8V3246J 7		URKPFNG'CUUJ.ERNV.JF.71: \$'J QNGU
	32	8V3255	3	EQXGT.EQWRNIP I
	33	8V324;	3	EJ CIP.EQWRNIPI '*7238+
	34	VH3346	3	MG[.7138\$"US 'Z '3/314\$"TPF
	35	43445	3	URTQEMGV."3/316\$"DQTG
	36	55: 9;	8	ECRUETGY .516\$'Z'4/316\$.PHI T":
	37	55::2	34	HNCVY CUI GT.516\$.I T": .UCG
	38	8V4635	8	J GZ 'P W.516\$.P HI T":
	39	559: 7	3	E[N.3/314\$"Z": \$
	3:	2864235;	3	RIP .J IP I G.VTD82.TQV
	3;	8V5429	3	I TGCUG'\ GTM316\$
	42	43855	33	ECRUETGY .51: \$'Z'3/516\$.PE.I T:
	43	43949	6	P[NQEMPWV.34\$
	44	43952	9	ECRUETGY .314\$"Z"3/316\$.PE
	45	43953	9	ECRUETGY .3 14 \$ 'Z '3/3 14 \$.P E
	47	43955	6	ECRUETGY .314\$"Z"4\$.PE
	48	44238	53	HNCVY CUI GT.51: \$.I T:
	49	8V5239	4	TQNNRIP .5 138\$"Z "3\$
	4:	55; 46	4	TGVCIPIPI TIPI .GZ VGTP CN.3 II\$
	4;	55;:6	4	RIP.UJ KGNF.72\$
	52	TF 3254	4	RIP.N[PEJ.316\$"Z"4\$
	54	8V44; 2	6	ECRUETGY .71: \$"Z "4\$.P HI T":
	55	8V462:	6	J GZ 'P W.71: \$.P H
	56	55986	:	HNCVY CUI GT.71: \$.I T": .UCG
	57	5599;	3	RNCVG.EQXGT.MP HJ QNG
	58	55::3	4	ECRUETGY .HNI .51: \$'Z'516\$.PE
	59	8V4492	42	RNQY 'DQNV.51: \$'Z '3\$.P E.I T7
	5:	43847	42	J GZ 'P WV.51: \$.P E
	5;	28755226	6	HNCVY CUI GT
	62	VD5232	3	DWU IPI
	63	VH6: 74	4	HNCPI G'MKV
	64	2872267:	4	$\label{eq:constraint} J~QUG.3\$'Z'', 7\$.'RTGUUWTG'*TGF'FGECN'UVTIR+$
	///	2872267:	/	J QUG.3\$"Z"; 7\$."TGVWTP"*DNWG"FGECN"UVTIR+
	65	287226: 2	3	J QUG.316\$"Z"329\$
	66	287226: 3	3	J QUG.316\$"Z"; 9\$
	67	28725279	4	CFCRVGT.316QTD'Z'51: OL
1				

60 IN ROTARY MOWER TREE ASSEMBLY

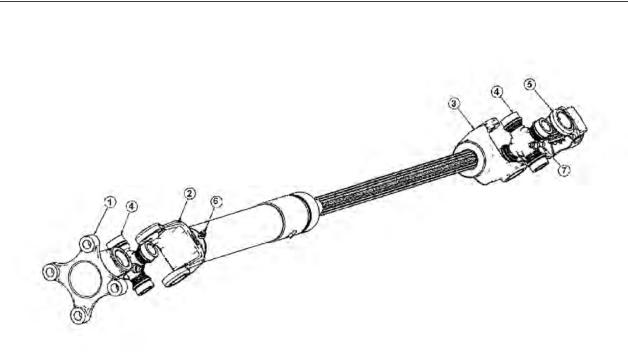


60 IN ROTARY MOWER TREE ASSEMBLY

Continued...

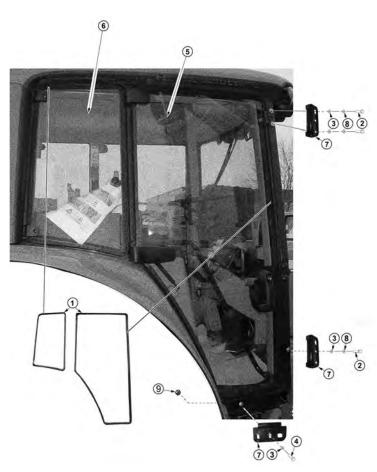
ITEM	PART NO.	QTY.	DESCRIPTION
3	28542382	3	FGEMVTD82.TQV.ERNV
4	28542385	3	VTGG.VTD82.TQV
5	286; 9232	3	RCF.WJ OY.28542385
6	28623472	3	TIPI .ECRVWTG.28542385
7	28623473	3	T ₩ I .DQNV.28542386
8	286; 9233	3	TIPI .WJ OY .28542385
9	28623475	3	TIPI.UJ KO.28542386
:	28623474	3	TIPI .DQNV.28542386
;	28755226	38	HNCV"Y CUJ GT.314\$.UCG.I T":
32	8V449;	:	ECRUETGY .3 14\$ 'Z '3/3 14\$.P E.I T:
33	43952	:	ECRUETGY .314\$'Z '3/316\$.PE.I T:
34	28542386	3	NKP MCI G.3.28542385
35	28963293	3	NKP MCI G.4.28542385.CUU
36	28723243	3	E[NKP F GT.5\$"Z"32\$
37	28642236	4	RKP .3022\$"Z"50 6\$.Y 1044\$"J QNGU.PKV
38	28642352	4	RKP .3022\$"Z"40; \$.Y 108; \$"J QNGU
39	573; 3	3	RKP.UY KXGN.3\$'Z'7\$
3:	8V5429	7	I TGCUG'\ GTM316\$
3;	43849	3	P[NQEMPWV.51: \$.PE
42	43856	3	ECRUETGY .51: \$'Z '4\$.PE
43	28759243	6	TQNN''RIP .70 O 'Z '720 O
44	VD3245	6	TQNNRIP .9154\$"Z"4\$
45	VD5232	3	DWJ KPI .3\$
46	55493	4	CFCRVGT.34OQT'Z'51:OL
47	287226: 2	3	J QUG.316\$'Z'329\$
48	287226: 3	3	J QUG.316\$'Z"; 9\$

PUMP DRIVESHAFT



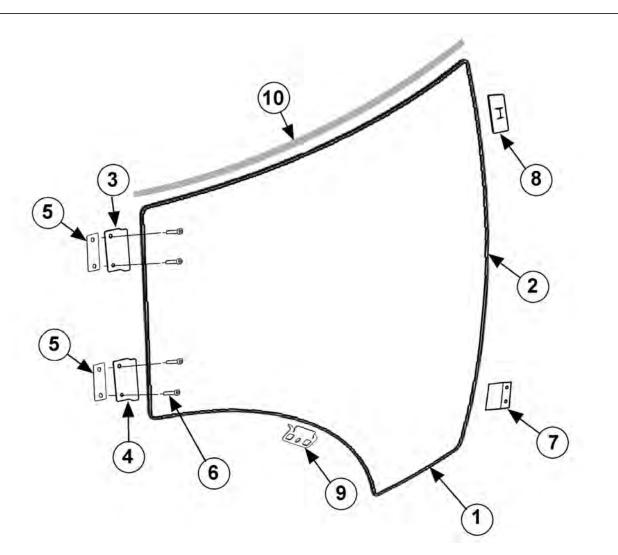
ITEM	PART NO.	QTY.	DESCRIPTION
///	56;;;	3	FTKXGUJ CHV.WIQKP V.CUU
3	28727226	3	[QMG'RWNNG[
4	28727227	3	UNGGXG
5	28727228	3	UI CHV
6	28727229	4	ETQUU
7	2872722:	3	[QMG'FTKXG
8	8V5425	3	I TGCUG'\ GTM316\$'Z'67
9	8V5429	5	I TGCUG'\ GTM316\$'Z'UVT

POLYCARBONATE SAFETY WINDOW



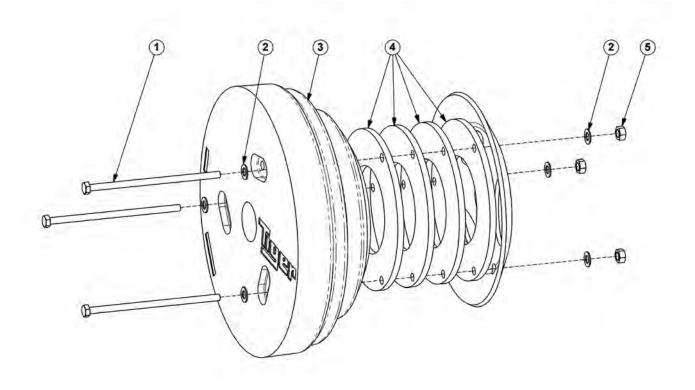
١	ITEM	PART NO.	QTY.	DESCRIPTION
١	3	53; 87	44	VT160 'UGCN.51: \$'EN1R'Z '516\$QF '*HGGV+
١	4	4972:	5	ECRUETGY .: O O 'Z '42O O .3047R
١	5	44237	6	HNCVY CUI GT.7138\$
١	6	437: 3	3	ECRUETGY .7138\$'Z '3/316\$.PE
١	7	286; 2227	3	RQN[ECTD.HTOF.FQQT.TJ
١	8	286; 2249	3	RQN[ECTD.HTOF.TGCT.TJ
١	9	28742262	5	DTMV.IF.RQN[.TGVCIP
١	:	8V483;	5	NQEMY CUI GT.: O O
١	;	43799	3	P[NQEMPWV.7B8\$.PE

PANORAMIC POLYCARBONATE WINDOW



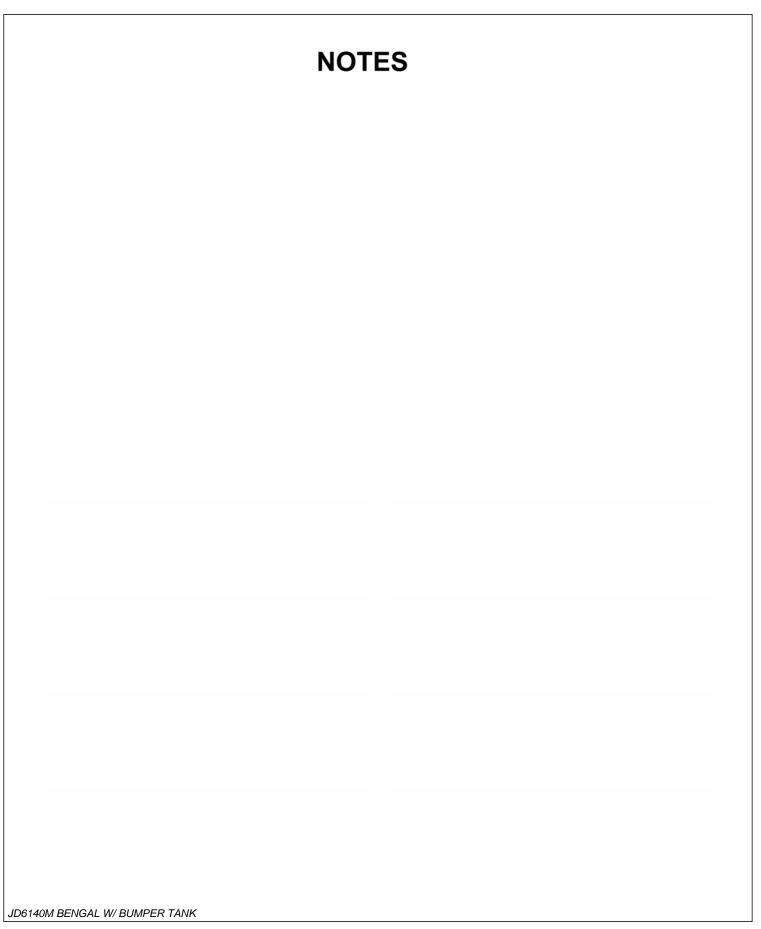
ITEM	PART NO.	QTY.	DESCRIPTION
3	286; 2247	3	RQN[ECTD.HIOF.FQQT.TJ
4	53; 87	44	VT1O 'UGCN.51: \$'EN1R'Z '516\$QF '**HGGV+
///	28759227	3	CFJ GUKXG", P Q V"UJ Q Y P
5	28552264	3	DTMV.UHV['UETP.WRRGT
6	28552263	3	DTMV.UHV['UETP.NQY GT
7	28624392	6	URCEGT.3\$'Z'71: \$'Z'5138\$
8	3; O 9783	6	UETGY ", GZKUVKP I
9	N42; 272	3	DTCEMGV", GZ KUVKP I
:	N42; 26;	3	DTCEMGV', GZ KUVKP I

WHEEL WEIGHT



ITEM	PART NO.	QTY.	DESCRIPTION
1	06530213	3	CAPSCREW, 7/8" X 16", NC, GR8
2	06533000	6	FLATWASHER, 7/8", GR8
3	32517	1	WHEEL WEIGHT, 1700#
4	06400410	4	SPACER
5	06531000	3	HEX NUT, 7/8", NC, GR8

NOTES 2



COMMON BENGAL BOOM T4 PARTS SECTION



PART NAME INDEX

RCTVU'QTF GTIP I 'I WIF (####################################	7
DQQO 'CUU '''DGPI CN''3: "Vdiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
DQQO 'CUU 'DGPI CN'UVCPFCTF'44'''V6()	
DQQO 'CUU 'J [F 'DGP I CN'44'Vdiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	32
DQQO 'CUU 'DGPI CN'GZ V'46"V6(((()))	34
DQQO 'CUU 'J [F 'DGP I CN'46''Vammummm)	36
DQQOTGUV''/'QRGP''UVQY ((((((((((((((((((((((((((((((((((((38
72IP 'TQVCT['O QY GT'CUUGO DN[(((((((((((((((((((((((((((((((((((3:
72P TQVCT["MP KGU'CPF F KU (***********************************	42
72IP 'TQVCT['DNCFG'DCT'CPF'MP KXGl0000000	43
82IP 'TQVCT['O QY GT'CUUGO DN[(ffffffffffffffffffffffffffffffffffff	44
82IP 'TQVCT['MP KGU'CPF 'F KU (***********************************	46
82IP 'TQVCT['DNCFG'DCT'CPF 'MP KXGl0000000	47
TQVCT['O QY GT'URIP F NG'CUUGO DN[(IIIIIIIIII))	48
DQQO 'TQVCT['RKQV'CUUGO DN[(####################################	4:
72P 'HNCKN'FTKKG'CUUGO DNI (************************************	52
72IP "HNCKN"O QY GT "CUUGO DN[(54
	XGL000000000000000000000000000000000000
85/P 'HNCKN'FTKKG'CUUGO DNI (####################################	58
85/P 'HNCKN'O QY GT 'CUUGO DN[(IIIIIIIIIIIIIIII)	5:
DQQO "HNCKN"RKXQV"CUUGO DN[(((((((((((((((((((((((((((((((((((62
5RP 'Z'3: RP "Y GNF GF 'E [NRP F GT 'DT GCMF QY PO	P(1) P(
	P(000000000000000000000000000000000000
6kP 'Z '42kP 'Y GNF GF 'E [NkP F GT 'DT GCMF QY PO	67
7KP 'Z '42KP "Y GNF GF 'E [NKP F GT 'DTGCMF QY PO	68
P QVGUIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	69
7'URQQN'GNGEVTQP KE'XCNXG''''UKF G'UVQY (1990)	72
HTQP V'J [FTCWNE'RWO RIMMINIMINIMINIMINIMINIMINIMINIMINIMINIM	74
	74 1000000000000000000000000000000000000
HNCKI'O QVQT'DTGCMF QY P(000000000000000000000000000000000000	78
TGUGTXQKT"VCP M*HKNVGT"CUUGO DN[(111111111111111111111111111111111111	7:
RWO R'CPF 'I TKNN'I WCTF ''QRVKQP (MMMMMMM)	7;
DQQO "VTCXGN"NQEMIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	82
O CP WCN'NKHV'XCNXG'UY K/EJ 'DQZ(000000000000000000000000000000000000	83
O CP WCN'NKHV'XCNXG'UEJ GO CVKE(000000000000000000000000000000000000	84
GNGEVTQP Æ 'NKHV'XCNXG'UY KVEJ 'DQZ(IIIIIIIII)	85
GNGEVTQP KE'NKHV'XCNXG'UEJ GO CVKE(111111111111111111111111111111111111	86
UQNGP QKF "UY KVEJ "DQZ "CPF "Y KT KP I (11111111111111111111111111111111111	87
COMMON BENGAL T4	

PART NAME INDEX

SECULORIZATION OF THE COMMON SECULORIZATION OF THE CONTROL OF THE		
TCMG"XCNXG"I [FTCWNÆ"UEJ GO CVÆ000000 89 SNGEVTÆCN"VTQWDNGUI QQVÆI "I WÆ 0000000 8: [FTCWNÆ"VTQWDNGUI QQVÆI "I WÆ 0000000 8; TQWDNGUI QQVÆI (000000000000000000000000000000000000	DTCMG'XCNXG'CUUGO DN[(((((((((((((((((((((((((((((((((((88
FINGEVTIECN'VTQWDNGUI QQVIPI 'I WIF COMMO 8: [FTCWNIE'VTQWDNGUI QQVIPI 'I WIF COMMO 8; TQWDNGUI QQVIPI ''/'EQP VIP WGFOMMO 93		89
FTCWNKE"VTQWDNGUJ QQVKPI "I WKFG000000 8; TQWDNGUJ QQVKPI (000000000000000000000000000000000000		8:
TQWDNGU QQVR I ""EQP VR WGROOMMOON 93		
TQWDNGUI QQVIPI "/"EQPVIPWGF000000000000000000000000000000000000		

PARTS ORDERING GUIDE

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

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- 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.
- 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.
- 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.

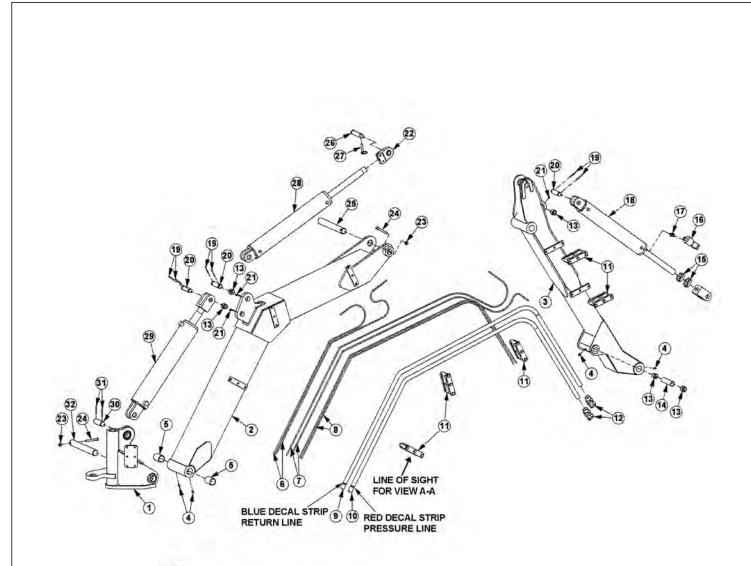


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

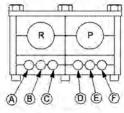
Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

BOOM ASSY - BENGAL 18 T4



NOTES:

- 1. IMPORTANT: ALIGN GREASE HOLE OR GAP IN BEARING (ITEMS 5 & 13) WITH GREASE ZERK IN BOOM. MAINTAIN ALIGNMENT DURING BEARING INSTALLATION.
- GREASE HINGE PIN ZERKS (ITEM 4) ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.
- 3. ONLY ONE SET COLLAR (ITEM 15) NEEDED FOR ROTARY MOWERS.



VIEW A-A

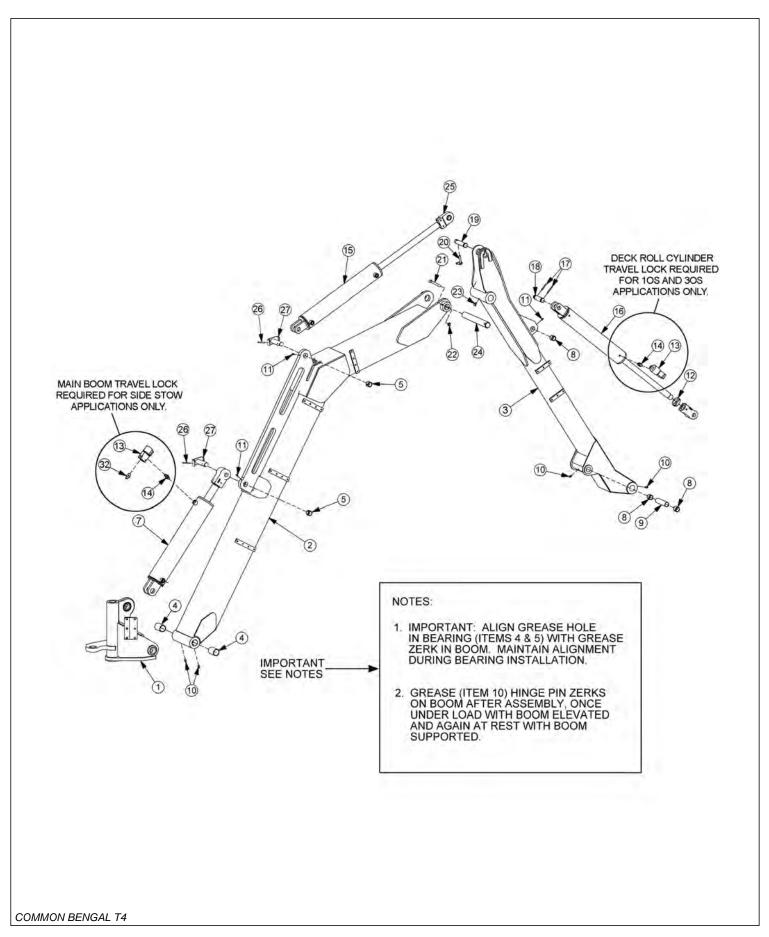
- A SECONDARY BUTT
 B SECONDARY GLAND
 C DECK ROLL BUTT
 D DECK ROLL GLAND
 E SHIELD BUTT
 F SHIELD BUTT
 F SHIELD GLAND
 R RETURN
 P PRESSURE

BOOM ASSY - BENGAL 18 T4

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	REAR STOW SWIVEL ASSY
2	06700167	-	MAIN BOOM ASSY
	06310111	1	MAIN BOOM WELDMENT
3	06700168	-	SECONDARY BOOM ASSY
	06310112	1	SECONDARY BOOM WELDMENT
4	6T3211	4	GREASE ZERK,1/8"
5	32321	2	BEARING, DX, 1-1/2" X 2"
6	06500499	2	HOSE,1/4" X 50"
7	06500500	2	HOSE,1/4" X 108"
8	06500502	2	HOSE,1/4" X 100"
9	06500713	1	HOSE,1" X 163"
10	06500714	1	HOSE,1" X 162"
11	06505116	2	CLAMP KIT
12	24724	2	SWIVEL,1MJ X 1FJX45
13	TB3010	3	BUSHING
14	TB1035	1	BUSHING,SPACER
15	35312	1	SET COLLAR
16	06510050	1	TRAVEL LOCK,METRIPACK COIL
17	31329	1	ADAPTER,1/2ORB X 1/2ORB ADJ
18	06501023	1	DECK ROLL CYLINDER,3" X 18"
19	06537021	6	ROLL PIN,5MM
20	TB1033	4	PIN,1"
21	6T3207	4	GREASE ZERK,1/4"
22	TB3033	1	CLEVIS WITH SPHERICAL BEARING
23	21677	2	NYLOCK NUT,7/16",NC
24	21688	2	CAPSCREW,7/16" X 3-1/4",NC
25	TB1025	1	PIN,1-1/2"
26	TB1036	1	PIN,1"
27	TF1143	1	PIN,LYNCH
28	06501024	1	SECONDARY CYLINDER,3-1/2" X 20"
29	06501022	1	MAIN CYLINDER,4" X 20"
30	06420100	1	PIN,1-1/4"
31	TB1023	2	ROLL PIN,7/32"
32	TB3013C	1	PIN,1-1/2"

BOOM ASSY BENGAL STANDARD 22 T4

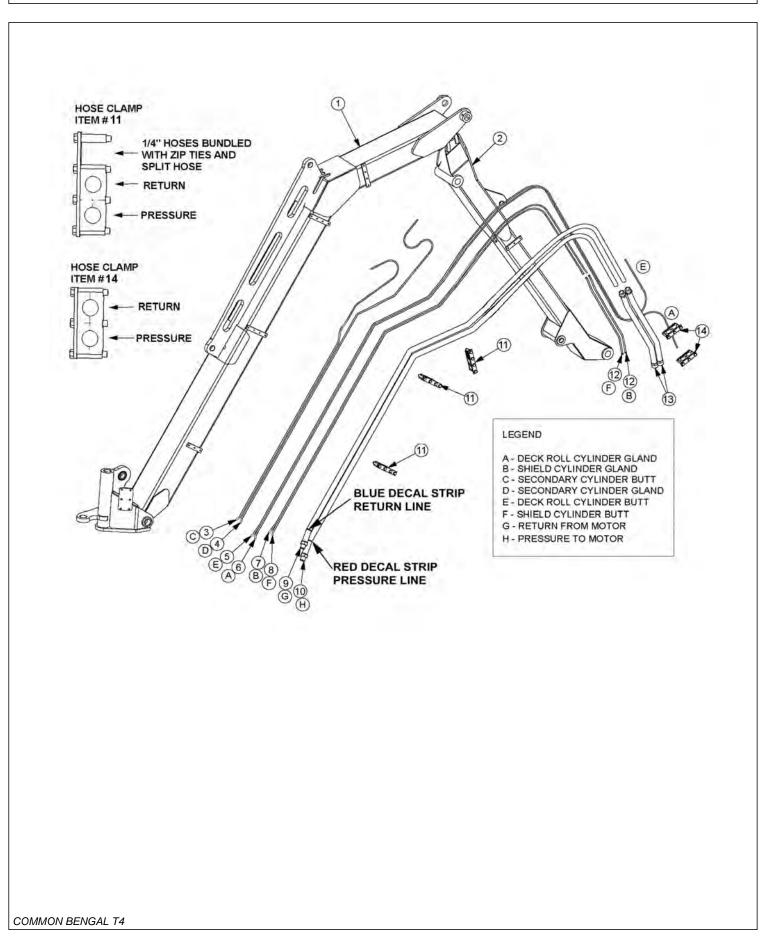


BOOM ASSY BENGAL STANDARD 22 T4

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700189	1	MAIN BOOM, T4
3	24517	1	SECONDARY BOOM ARM ASSY
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB3010	2	BUSHING, 1"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
10	6T3211	4	GREASE ZERK,1/8"
11	6T3207	3	GREASE ZERK,1/4
12	35312	1	SET COLLAR
13	06510050	1	TRAVEL LOCK,METRIPACK COIL
14	31329	1	ADAPTER,1/2ORB X 1/2ORB ADJ
15	06501022	1	CYLINDER, 4" X 20"
16	06501023	1	CYLINDER,3" X 18"
17	06537021	6	ROLL PIN,5MM
18	TB1033	1	PIN,1" X 4"
19	TB1036	1	PIN,1" X 4-11/16"
20	TF1143	1	PIN,LYNCH
21	21688	2	CAPSCREW,7/16" X 3-1/4",NC
22	21677	2	NYLOCK NUT,7/16",NC
23	6T3210	1	GREASE ZERK,1/8" X 90°
24	TB1025	1	PIN,1-1/2" X 12"
25	30172	1	CLEVIS,SPHERICAL
26	6T3014	2	ROLL PIN, 1/4" X 2"
27	TB1045B	2	PIN, PRIMARY CYLINDER

BOOM ASSY HYD BENGAL 22 T4

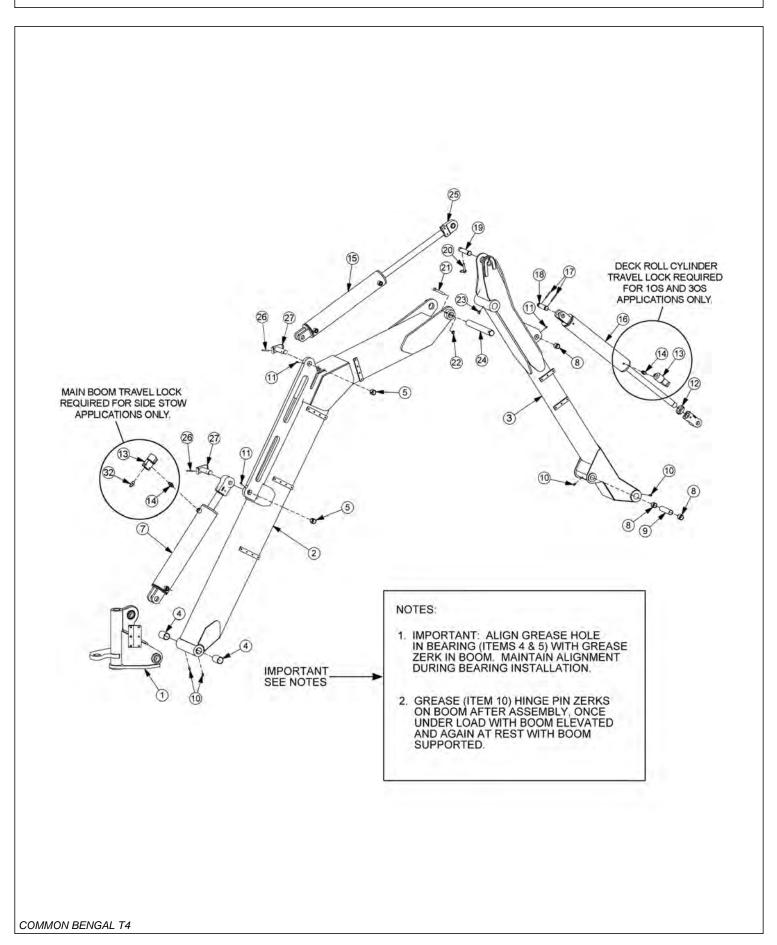


BOOM ASSY HYD BENGAL 22 T4

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	06500694	1	HOSE, 1/4" X 83"
4		1	HOSE, 1/4" X 83"
5	06500695	1	HOSE, 1/4" X 138"
6		1	HOSE, 1/4" X 138"
7	06500696	1	HOSE, 1/4" X 112"
8		1	HOSE, 1/4" X 112"
9	34645	1	HOSE, 1" X 182"
10		1	HOSE, 1" X 182"
11	06505019	3	CLAMP KIT,3 SECTION
12	34102	2	TUBE,PRFRMD,SEC BOOM
13	2403306	2	TUBE,PRFRMD,SEC BOOM,HP
14	30111	2	CLAMP KIT,2 SECTION

BOOM ASSY BENGAL EXT 24 T4

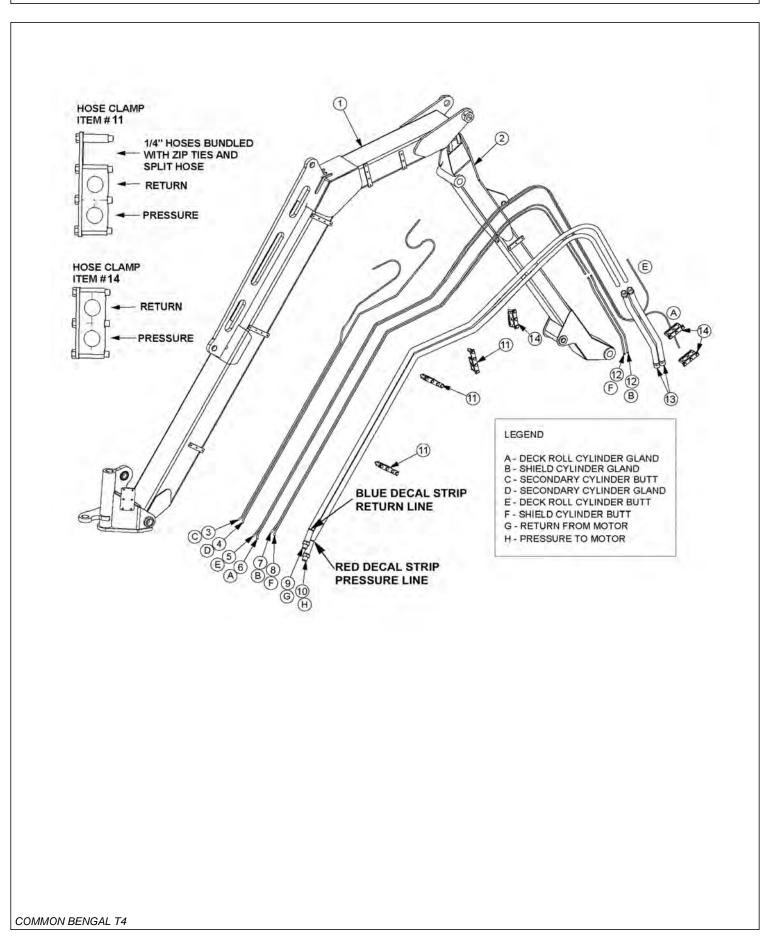


BOOM ASSY BENGAL EXT 24 T4

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700191	1	MAIN BOOM, EXT, T4
3	06700094	1	SECONDARY BOOM ARM ASSY, EXT, T4
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB3010	2	BUSHING, 1"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
10	6T3211	4	GREASE ZERK,1/8"
11	6T3207	3	GREASE ZERK,1/4
12	35312	1	SET COLLAR
13	06510050	1	TRAVEL LOCK,METRIPACK COIL
14	31329	1	ADAPTER,1/2ORB X 1/2ORB ADJ
15	06501022	1	CYLINDER, 4" X 20"
16	06501023	1	CYLINDER,3" X 18"
17	06537021	6	ROLL PIN,5MM
18	TB1033	1	PIN,1" X 4"
19	TB1036	1	PIN,1" X 4-11/16"
20	TF1143	1	PIN,LYNCH
21	21688	2	CAPSCREW,7/16" X 3-1/4",NC
22	21677	2	NYLOCK NUT,7/16",NC
23	6T3210	1	GREASE ZERK,1/8" X 90°
24	TB1025	1	PIN,1-1/2" X 12"
25	30172	1	CLEVIS,SPHERICAL
26	6T3014	2	ROLL PIN, 1/4" X 2"
27	TB1045B	2	PIN, PRIMARY CYLINDER

BOOM ASSY HYD BENGAL 24 T4

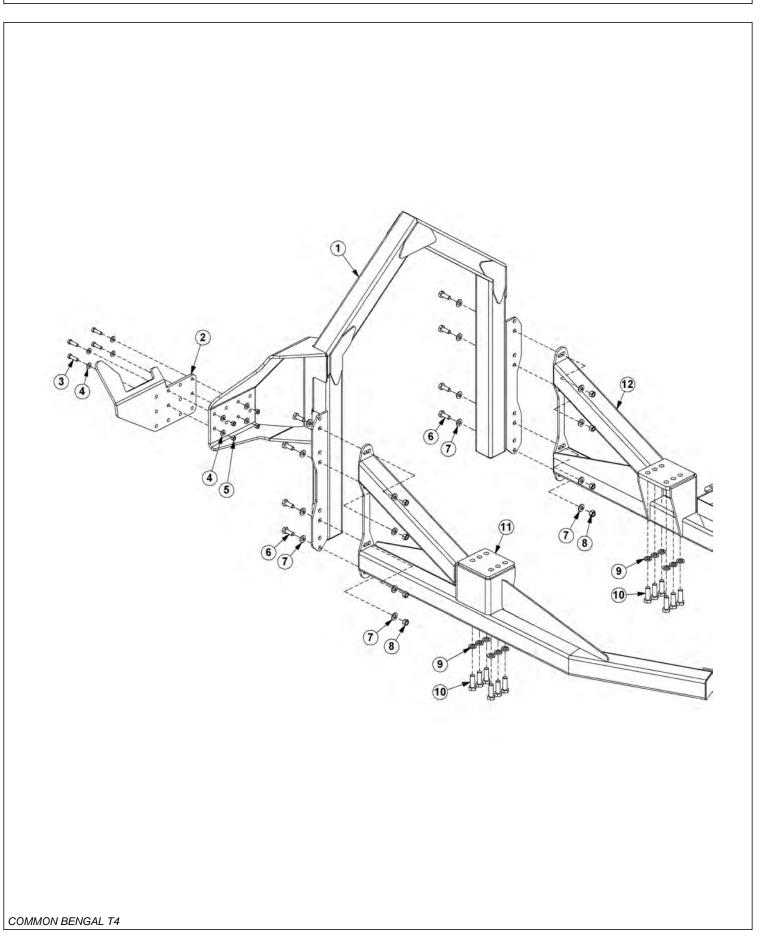


BOOM ASSY HYD BENGAL 24 T4

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	06500716	1	HOSE, 1/4" X 100"
4		1	HOSE, 1/4" X 100 "
5	06500717	1	HOSE, 1/4" X 170"
6		1	HOSE, 1/4" X 170"
7	06500718	1	HOSE, 1/4" X 130"
8		1	HOSE, 1/4" X 130"
9	06500715	1	HOSE, 1" X 198"
10		1	HOSE, 1" X 198"
11	06505019	3	CLAMP KIT,3 SECTION
12	34103	2	TUBE,PRFRMD,SEC BOOM
13	30169	2	TUBE,PRFRMD,SEC BOOM,HP
14	30111	2	CLAMP KIT,2 SECTION

BOOMREST - OPEN STOW

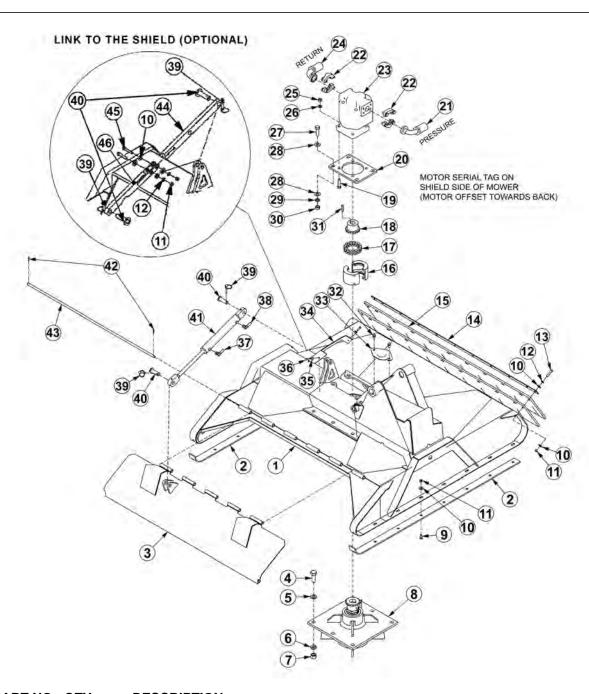


BOOMREST - OPEN STOW

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06310157	1	BOOMREST,OS
2	06410968	1	SADDLE
3	21732	4	CAPSCREW,1/2" X 1-3/4",NC
4	06533004	8	FLATWASHER,1/2",SAE
5	21725	4	HEX NUT,1/2",NC
6	21782	8	CAPSCREW,5/8" X 1-3/4",NC
7	33764	16	FLATWASHER,5/8",SAE
8	21775	8	HEX NUT,5/8",NC
9	24881	12	LOCKWASHER,20MM
10	27281	12	CAPSCREW,20MM X 60MM,2.5P
11		1	AXLE BRACE,RH
12		1	AXLE BRACE,LH

50IN ROTARY MOWER ASSEMBLY



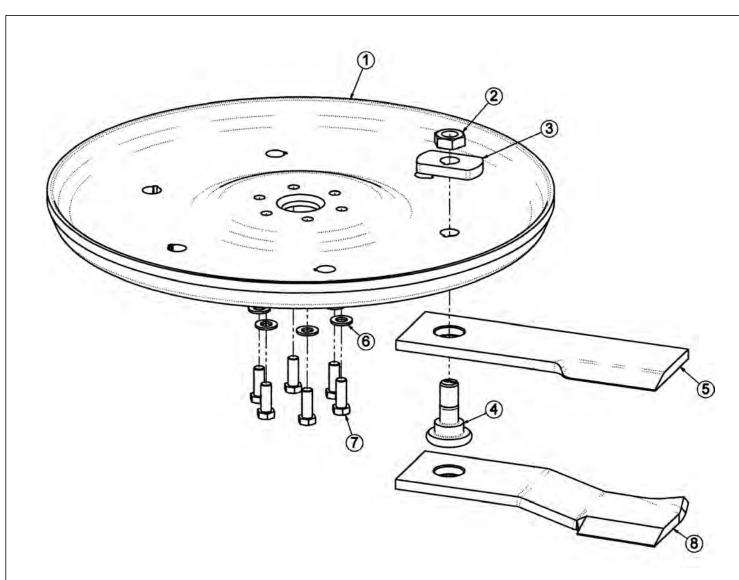
ITEM	PART NO.	QTY.	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33777	2	SKID SHOE,50" RTRY
3	33754	1	SHIELD,50"RTRY
4	33879	6	CAPSCREW, 3/4 X 2 1/4,NF GR 8
5	33880	6	FLATWASHER,3/4",GR 8,SAE
6	21993	6	LOCKWASHER,3/4",GR 8
7	6T2413	6	HEX NUT,3/4,NF,GR 8
8	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES

50IN ROTARY MOWER ASSEMBLY

Continued...

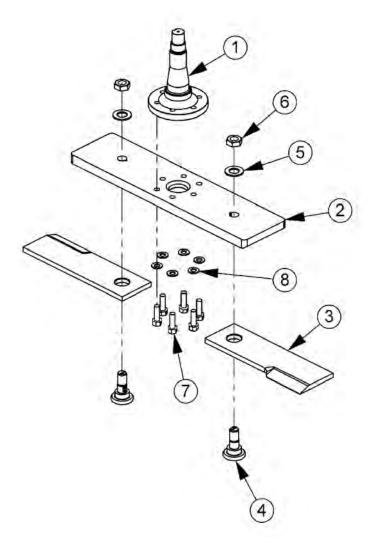
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	33774	1	FLAP RETAINER,50" RTRY
15	33775	2	FLAP,50" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18	21223	1	SPROCKET
19	21733	4	CAPSCREW, 1/2 X 2,NC
20	33776	1	MOTOR MOUNT,PLATE,50" RTRY
21	24490	1	HOSE - PRESSURE
	06500155	1	HOSE- PRESSURE (LRS ONLY)
22	TF4852	2	FLANGE KIT - #20
23	06504012	1	MOTOR
24	24489	1	HOSE - RETURN
	06500154	1	HOSE-RETURN (LRS ONLY)
25	21725	4	HEX NUT, 1/2" NC
26	06533004	4	FLATWASHER, 1/2"
27	6T2290	4	CAPSCREW,5/8X2,NF GR 8
28	33764	8	FLATWASHER,5/8",GR 8,SAE
29	21992	4	LOCKWASHER, 5/8
30	6T2408	4	HEX NUT, 5/8, NF
31	TF1124	1	SQUARE KEY
32	33881	2	CAPSCREW,FLG, 3/8 X 3/4,NC
33	33779	1	PLATE,COVER,KNF HOLE
34	06410439	1	COVER
35	22014	2	FLATWASHER,1/4
36	21530	2	CAPSCREW,1/4 X 1,NC
37	34187	1	HOSE 1/4" X 75"
38	34186	1	HOSE 1/4" X 66"
39	RD1032	2	LYNCH PIN
40	33984	2	PIN,SHIELD,50"
41	33785	1	1-1/2" X 8", CYLINDER, WELDED
42	6T3017	2	ROLLPIN
43	33778	1	HINGE PIN,50" RTRY
44	33772	1	LINK, SHIELD 50" RTRY
45	21634	2	CAPSCREW, 3/8" X 2, NC
46	33773	1	LINK 2, SHIELD 50" RTRY

50IN ROTARY KNIVES AND DISH



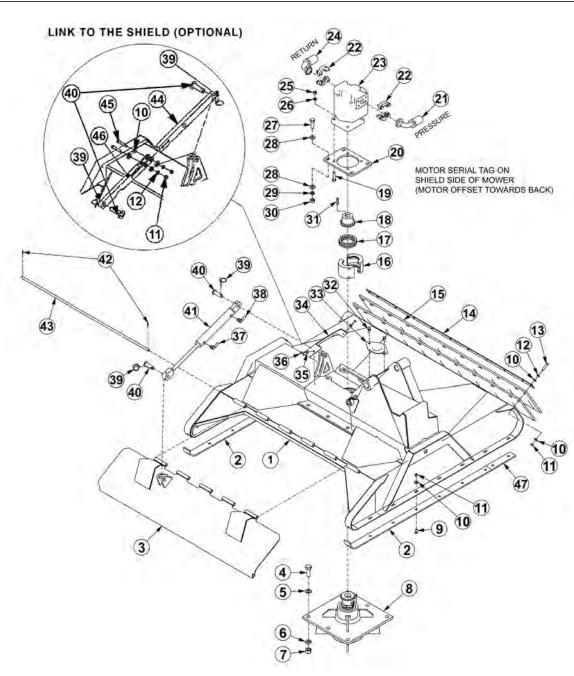
ITEM	PART NO.	QTY.	DESCRIPTION
	06700089	-	KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7)
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
	06770012	-	BOLT KIT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

50IN 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	6T2259	6	CAPSCREW,5/8X1-3/4,NF,GR8
8	33764	6	FLATWASHER,5/8,GR 8,SAE

60IN ROTARY MOWER ASSEMBLY



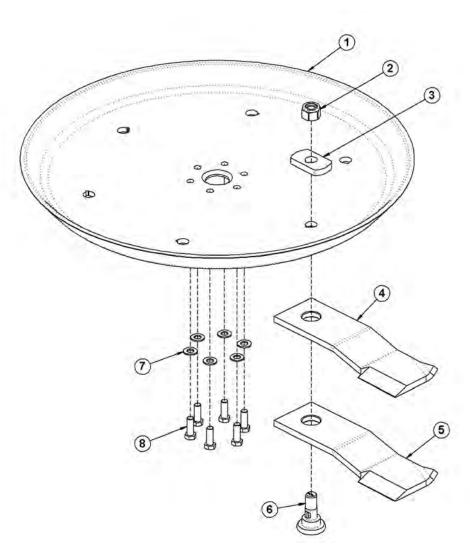
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	ITEM	PART NO.	QTY.	DESCRIPTION
	1	06320159	1	DECK,WLDMNT,60" RTRY
	2	33777	2	SKID SHOE,RTRY
	3	06320162	1	SHIELD,60"RTRY
	4	33879	6	CAPSCREW, 3/4 X 2 1/4,NF GR 8
	5	33880	6	FLATWASHER,3/4",GR 8,SAE
	6	21993	6	LOCKWASHER,3/4",GR 8
	7	6T2413	6	HEX NUT,3/4,NF,GR 8
	8	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
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60IN ROTARY MOWER ASSEMBLY

Continued...

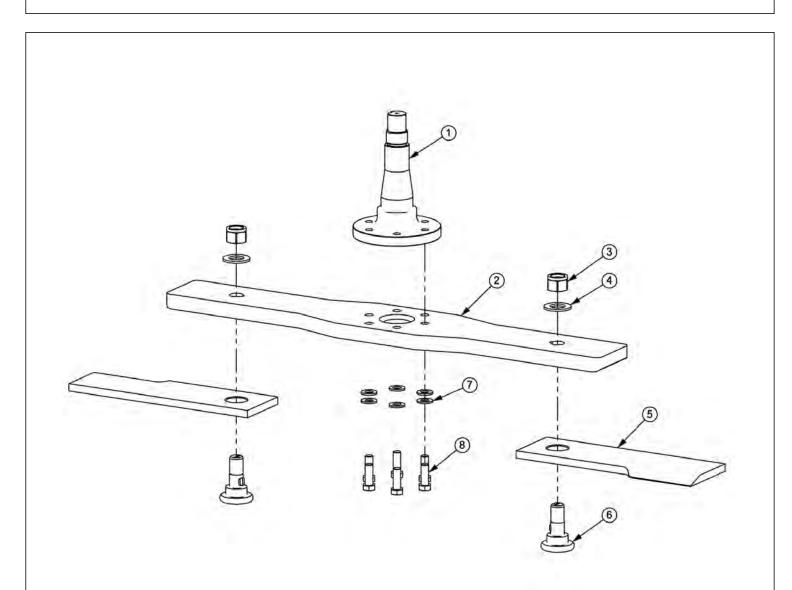
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	6T0823	1	FLAP RETAINER,60" RTRY
15	06520238	2	FLAP,60" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18	21223	1	SPROCKET
19	21733	4	CAPSCREW, 1/2 X 2,NC
20	33776	1	MOTOR MOUNT,PLATE,RTRY
21	24490	1	HOSE - PRESSURE
	06500155	1	HOSE-PRESSURE (LRS ONLY)
22	TF4852	2	FLANGE KIT - #20
23	6504011	1	MOTOR
24	24489	1	HOSE - RETURN
	06500154	1	HOSE-RETURN (LRS ONLY)
25	21725	4	HEX NUT, 1/2" NC
26	06533004	4	FLATWASHER, 1/2"
27	6T2290	4	CAPSCREW,5/8X2,NF GR 8
28	33764	8	FLATWASHER,5/8",GR 8,SAE
29	21992	4	LOCKWASHER, 5/8
30	6T2408	4	HEX NUT, 5/8, NF
31	TF1124	1	SQUARE KEY
32	33881	2	CAPSCREW,FLG, 3/8 X 3/4,NC
33	33779	1	PLATE,COVER,KNF HOLE
34	06410439	1	COVER
35	22014	2	FLATWASHER,1/4
36	21530	2	CAPSCREW,1/4 X 1,NC
37	34187	1	HOSE 1/4" X 75"
38	34186	1	HOSE 1/4" X 66"
39	RD1032	2	LYNCH PIN
40	33984	2	PIN,SHIELD
41	33785	1	1-1/2" X 8", CYLINDER, WELDED
42	6T3017	2	ROLLPIN
43	06420139	1	HINGE PIN,60" RTRY
44	33772	1	LINK, SHIELD,RTRY
45	21634	2	CAPSCREW, 3/8" X 2, NC
46	33773	1	LINK 2, SHIELD,RTRY
47	06401245	2	SKID SHOE,TRB60

60IN ROTARY KNIVES AND DISH



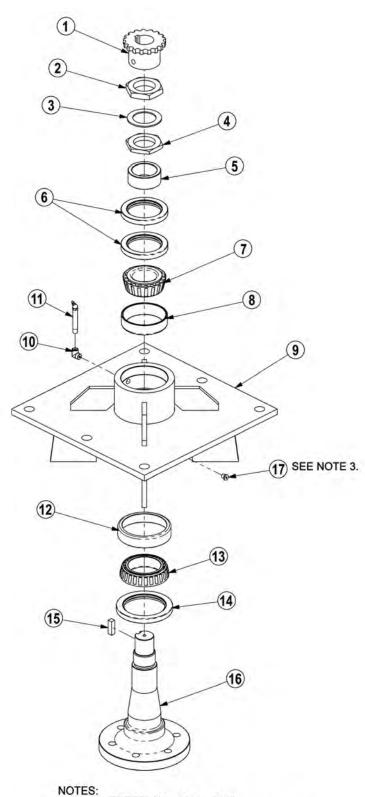
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISH,60"
2	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	34878	2	SPACER
4	34684	2	STANDARD GRASS KNIFE
5	34685	2	HIGH SUCTION GRASS KNIFE (OPTIONAL)
6	34497	2	KNIFE MOUNTING BOLT
7	25270	6	FLATWASHER,5/8",GR8,USS
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
	6T1825	1	LOCKTITE (USED ON ITEM 8)
	27167	1	BOLT KIT (ITEMS 7 & 8)
	33893	1	KNIFE KIT (ITEMS 2,4 & 6)

60IN ROTARY BLADE BAR AND KNIVES



ITEM	PART NO.	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

ROTARY MOWER SPINDLE ASSEMBLY

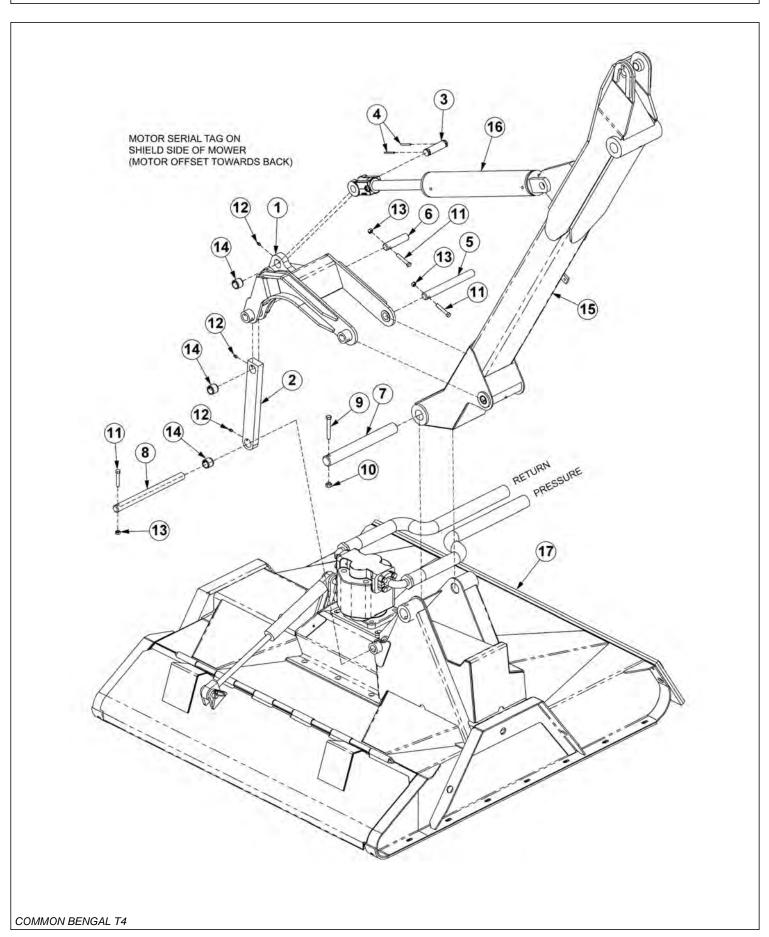


- 1. FREEPLAY: .001" .003" 2. GREASE: FILL WITH MOBILITH SHC 220. 3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

ROTARY MOWER SPINDLE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
9	6T1010H	1	SPINDLE HOUSING
10	30570	1	FITTING STREET ELBOW
11	33990	1	GREASE ZERK
12	6T1013H	1	BEARING CUP
13	6T1012H	1	BEARING CONE
14	6T1011H	1	LOWER SEAL
15	6T1019	1	SPINDLE KEY
16	PT1018H5	1	SPINDLE
17	06503064	1	O-RING PLUG, 1/8"
	31771	-	SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15)

BOOM ROTARY PIVOT ASSEMBLY

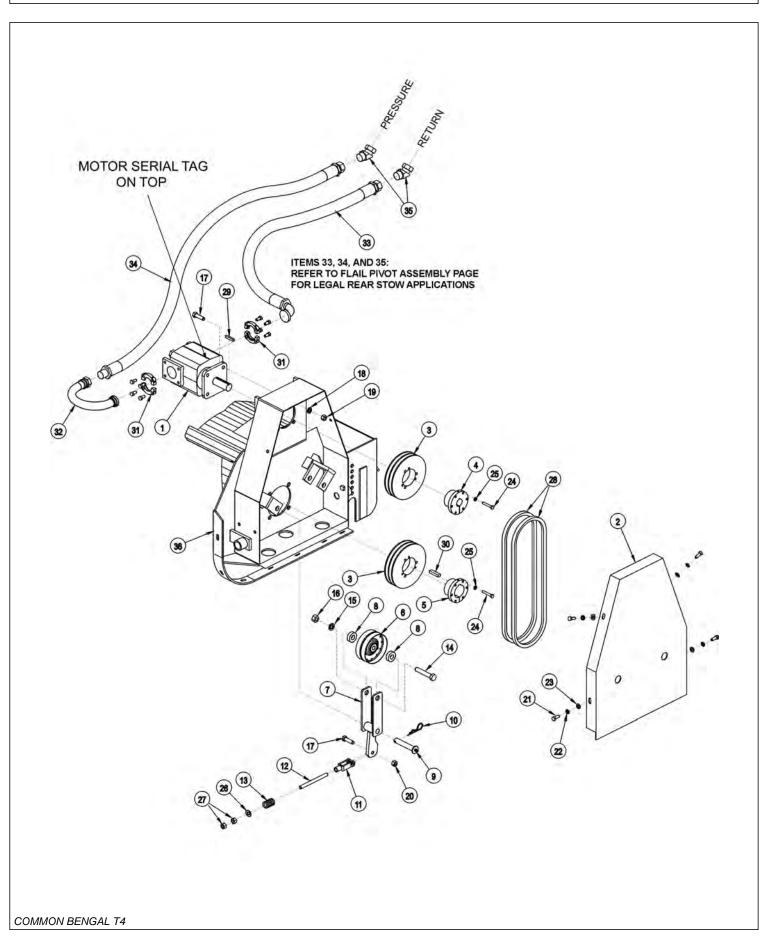


BOOM ROTARY PIVOT ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	ROTARY PIVOT ASSY
2	TB1028	1	PIVOT ARM ASSY
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		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
16		-	CYLINDER *REFER TO BOOM ARM ASSY
17		-	ROTARY MOWER HEAD *REFER TO ROTARY DECK

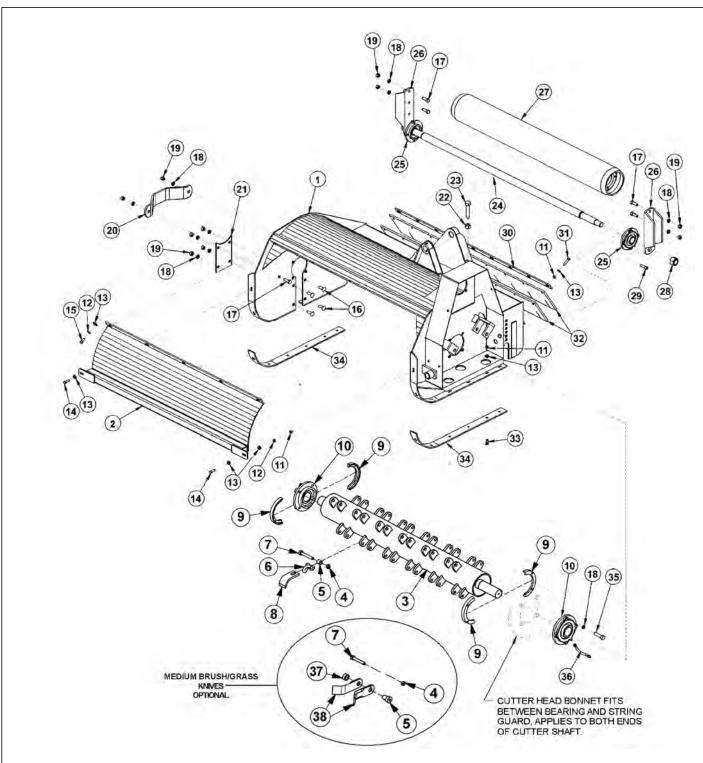
50IN FLAIL DRIVE ASSEMBLY



50IN FLAIL DRIVE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	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	IDLER ARM
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	34227	1	PREFORMED TUBE
33	31218	1	HOSE - RETURN
34	34331	1	HOSE - PRESSURE
35	24724	2	SWIVEL FITTING
36		-	CUTTER HEAD *REFER TO CUTTER HEAD ASSY

50IN FLAIL MOWER ASSEMBLY

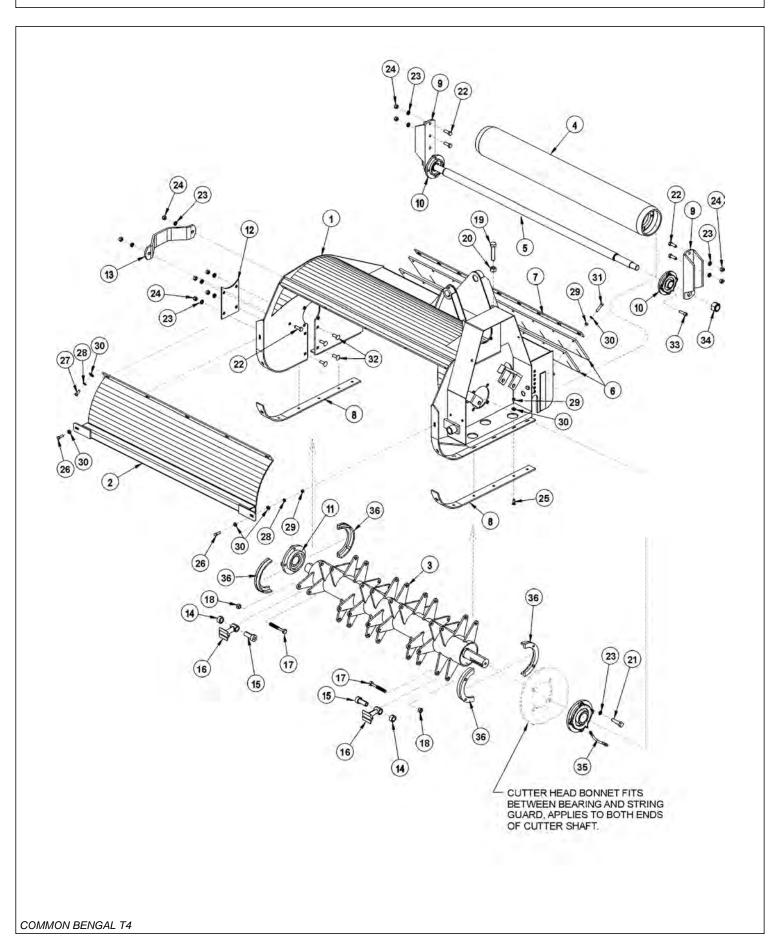


ITEM	PART NO.	QTY.	DESCRIPTION
	34787	1	FLAIL,BOOM,50,BRUSH,CPLT ASSY (LIGHT BRUSH/GRASS)
	06742133	1	$FLAIL, BOOM, 50, MD\ GRASS, CPLT\ ASSY\ (MEDIUM\ BRUSH/GRASS)$
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD

50IN FLAIL MOWER ASSEMBLY

	ITEM	PART NO.	QTY.	DESCRIPTION
	3	34783	1	TBF50 (LIGHT BRUSH/GRASS KNIFE ASSY)
		06700115	1	TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY)
	4	6T2419	24	HEX NUT,9/16",NC,STOVER
	5	06420182	24	BUSHING
	6	34782	24	CLEVIS (LIGHT BRUSH/GRASS KNIVES)
	7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
	8	34780	24	KNIFE (LIGHT BRUSH/GRASS CUTTING)
	9	31204	2	STRING GUARD SET (2 PIECES PER SET)
	10	TF1018	2	FLANGE BEARING,2-3/16"
	11	21625	23	HEX NUT,3/8",NC
	12	21988	7	LOCKWASHER,3/8"
	13	22016	30	FLATWASHER,3/8"
	14	21631	2	CAPSCREW,3/8" X 1-1/4",NC
	15	21630	5	CAPSCREW,3/8" X 1",NC
	16	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
	17	21731	6	CAPSCREW,1/2" X 1-1/2",NC
	18	21990	18	LOCKWASHER,1/2"
	19	21725	10	HEX NUT,1/2",NC
	20	TF1040	1	CUTTER SHAFT GUARD
	21	TF3007A	1	COVER PLATE
	22	21825	1	HEX NUT,5/8",NC
	23	21838	1	CAPSCREW,3/4" X 3-1/2",NC
	24	TF3406	1	GROUND ROLLER TIE ROD
	25	TF1022	2	FLANGE BEARING,1-3/8"
	26	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
	27	TF3405	1	GROUND ROLLER
	28	6T1023R	2	NYLOCK NUT,1-1/8",NF
	29	6T2330	8	CAPSCREW,7/16" X 1-1/2",SOCKET HEAD
	30	TB1008	1	FLAP RETAINING BAR
	31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
	32	TB1006A	2	DEFLECTOR FLAP
	33	6T2270	12	PLOWBOLT,3/8" X 1",NC
	34	TF3001	2	SKID SHOE
	35	06530218	8	CAPSCREW,1/2" X 1-3/4",NC
	36	TF1032	1	FLANGE BEARING GREASE HOSE
	37	06420183	24	SPACER (MEDIUM BRUSHGRASS KNIVES)
	38	06521007	48	KNIFE (MEDIUM BRUSH/GRASS CUTTING)
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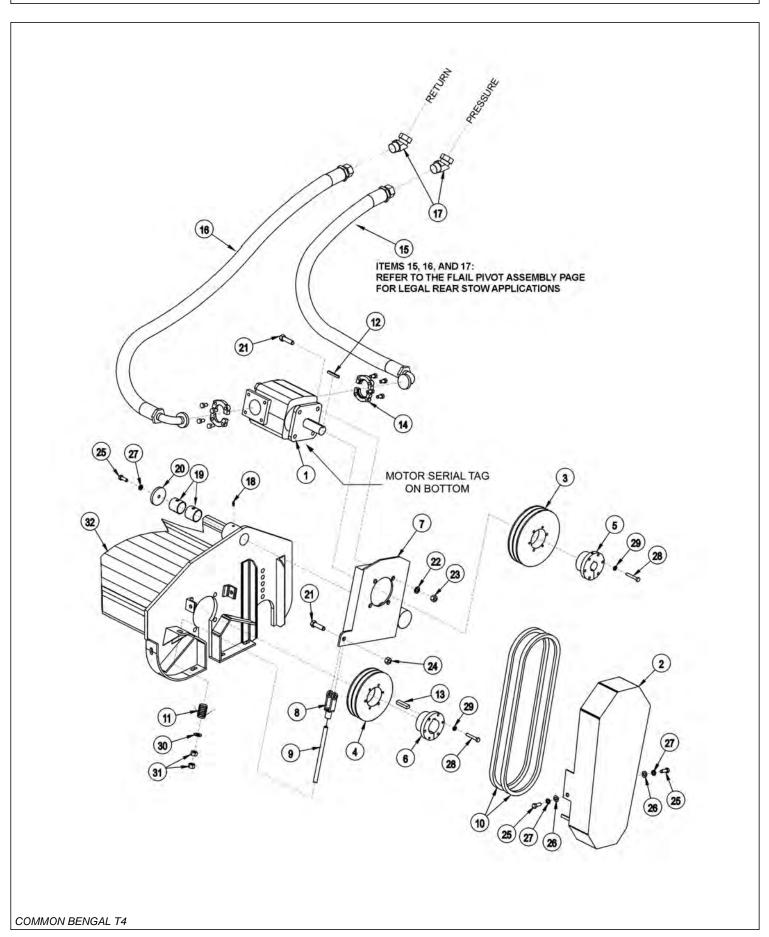
50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES



50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES

ı	ITEM	PART NO.	QTY.	DESCRIPTION
-		34172	1	FLAIL,BOOM,50,CPLT ASSY
	1	TF3003F	1	CUTTER HEAD BONNET
2	2	TF3004	1	FRONT SHIELD
3	3	33717	1	TBF50,CUTTERSHAFT,PASS THRU KNIVES
4	4	TF3405	1	GROUND ROLLER
4	5	TF3406	1	GROUND ROLLER TIE ROD
(5	TB1006A	2	DEFLECTOR FLAP
1	7	TB1008	1	FLAP RETAINING BAR
8	3	TF3001	2	SKID SHOE
٥)	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
	10	TF1022	2	FLANGE BEARING,1-3/8"
	11	TF1018	2	FLANGE BEARING,2-3/16"
	12	TF3007A	1	COVER PLATE
	13	TF1040	1	CUTTER SHAFT GUARD
	14	33858	24	SPACER,COLLAR
	15	33857	24	SHOULDER, BUSHING
	16	46399.01	24	KNIFE,FLAIL,FORGED
	17	33854	24	CAPSCREW,5/8" X 4-1/2",NC
	18	32674	24	HEX NUT,5/8",NC
	19	21838	1	CAPSCREW,3/4" X 3-1/2",NC
2	20	21825	1	HEX NUT,5/8",NC
2	21	21732	8	CAPSCREW,1/2" X 1-3/4",NC
2	22	21731	6	CAPSCREW,1/2" X 1-1/2",NC
2	23	21990	18	LOCKWASHER,1/2"
2	24	21725	10	HEX NUT,1/2",NC
2	25	6T2270	12	PLOWBOLT,3/8" X 1",NC
2	26	21631	2	CAPSCREW,3/8" X 1-1/4",NC
2	27	21630	5	CAPSCREW,3/8" X 1",NC
2	28	21988	7	LOCKWASHER,3/8"
2	29	21625	23	HEX NUT,3/8",NC
3	30	22016	30	FLATWASHER,3/8"
3	31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
3	32	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
3	33	6T2330	8	CAPSCREW,7/16" X 1-1/2",NC,SCKT HD
3	34	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	35	TF1032	1	FLANGE BEARING GREASE HOSE
3	36	31204	2	STRING GUARD SET (2 PIECES PER SET)
l				

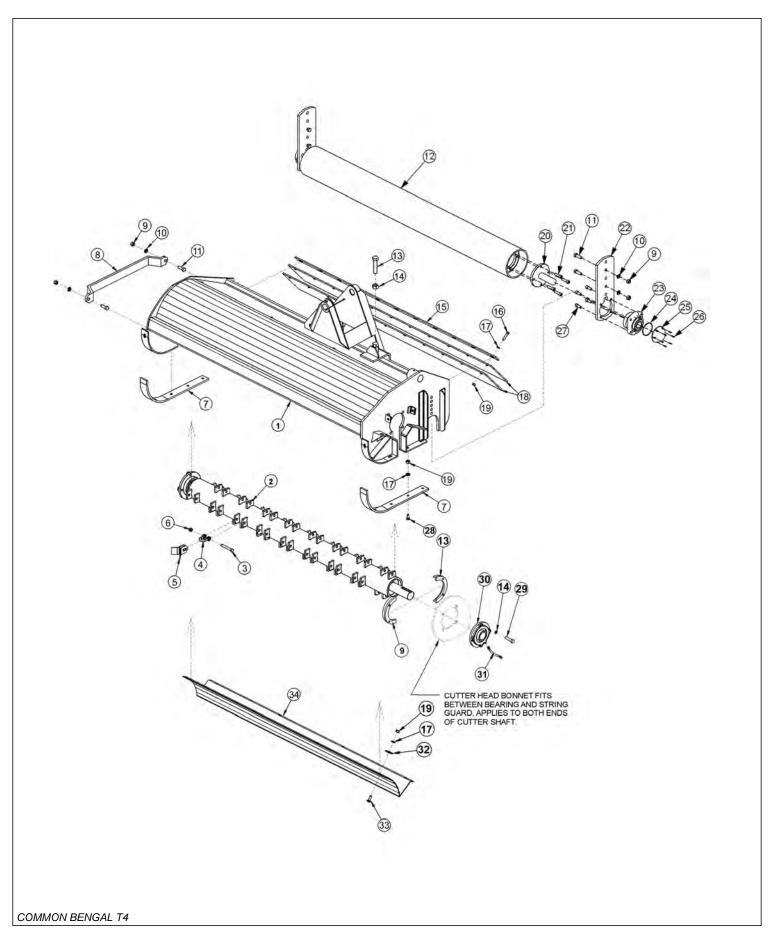
63IN FLAIL DRIVE ASSEMBLY



63IN FLAIL DRIVE ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4 GEAR)
2	32569	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4	TF3040	1	LOWER SHEAVE
5	TF3013	1	BUSHING
6	28723	1	BUSHING
7	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	26142A	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1 X 69 - PRESSURE
16	30309	1	HOSE,1 X 78 - RETURN
17	24724	2	SWIVEL FITTING
18	TF1033	1	GREASE ZERK
19	27580	2	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW 1/2" X 1 3/4"
22	21990	4	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	6T2418	1	STOVER 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		-	CUTTER HEAD *REFER TO MOWER ASSY

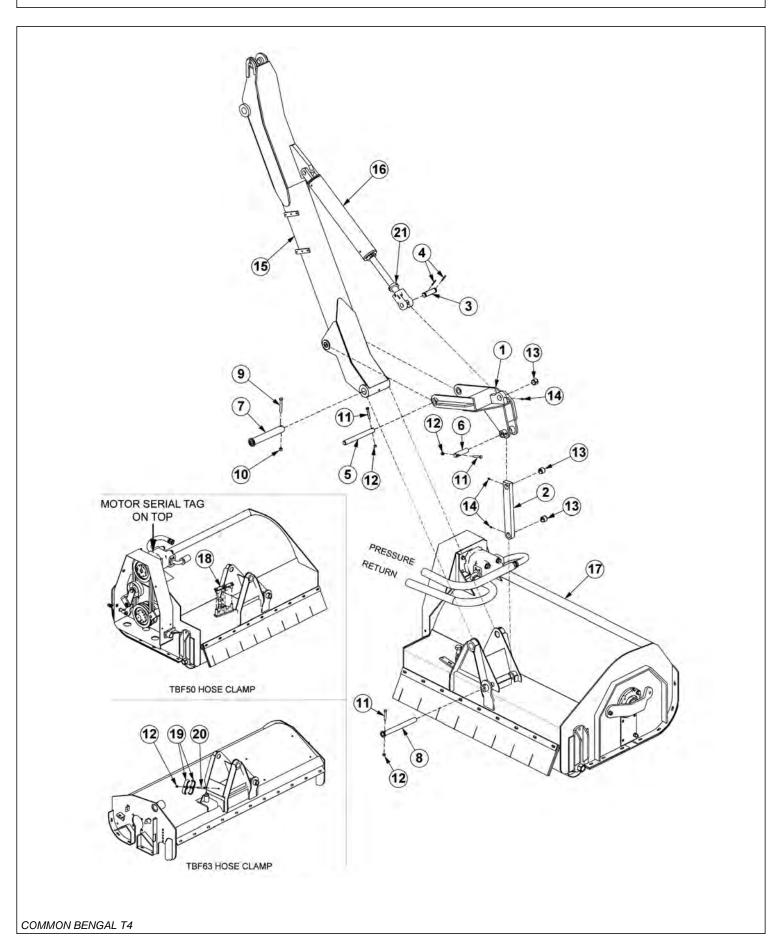
63IN FLAIL MOWER ASSEMBLY



63IN FLAIL MOWER ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	06200271	-	FLAIL,BOOM,63,GRASS,CPLT ASSY
1	28659H	1	CUTTER HEAD BONNET
2	28743	-	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
	28642C	1	CUTTER SHAFT,63,STD
3	34011	36	FLAIL KNIFE MOUNTING BOLT
4	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
5	33713	72	FLAIL KNIFE - STANDARD
6	21677	36	NYLOCK NUT
7	28086A	2	SKID SHOE
8	27975A	1	CUTTER SHAFT GUARD
9	21725	14	HEX NUT 1/2"
10	21990	14	LOCKWASHER 1/2"
11	21731	6	CAPSCREW 1/2" X 1 1/2"
12	06320240	1	GROUND ROLLER
13	33863	2	STRING GUARD,STD
14	06533006	8	FLATWASHER,1/2",SAE,L9
15	28700	1	FLAP RETAINING BAR
16	21633	11	CAPSCREW 3/8" X 1 3/4"
17	21988	28	LOCKWASHER 3/8"
18	28701	2	DEFLECTOR FLAP
19	21625	28	HEX NUT 3/8"
20	TF1045B	2	GROUND ROLLER STUB SHAFT
21	6T2330	8	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
22	28735	2	ADJUSTABLE ROLLER BRACKET
23	06520028	2	BEARING,FLANGE,1-3/8,GRNDRLLR
24	06520029	2	O-RING
25	06520027	2	CAP,BEARING,GROUNDROLLER
26	06530001	12	CAPSCREW,SKT HD,8-32 X 1/2,SS
27	6T2331	8	CAPSCREW 7/16" X 1" SOCKET HEAD
28	6T2270	10	PLOW BOLT 3/8" X 1 1/4"
29	06530217	8	CAPSCREW 1/2" X 2",L9
30	28683	2	FLANGE BEARING
31	TF1032	1	FLANGE BEARING GREASE HOSE
32	6T2615	7	FENDER WASHER 3/8"
33	6T2283	7	CARRIAGE BOLT 3/8" X 1"
34	28665A	1	BAFFLE (INSIDE UPPER REAR OF CUTTER HEAD)

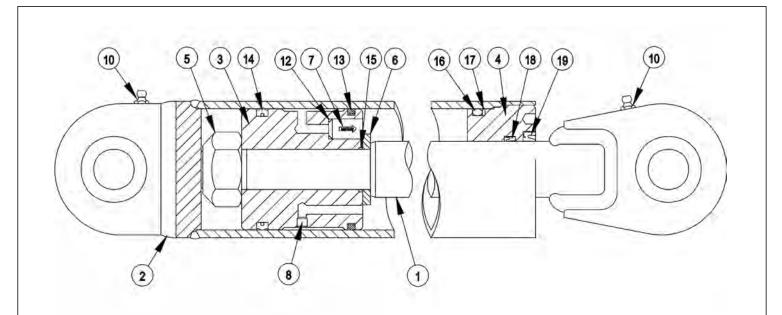
BOOM FLAIL PIVOT ASSEMBLY



BOOM FLAIL PIVOT ASSEMBLY

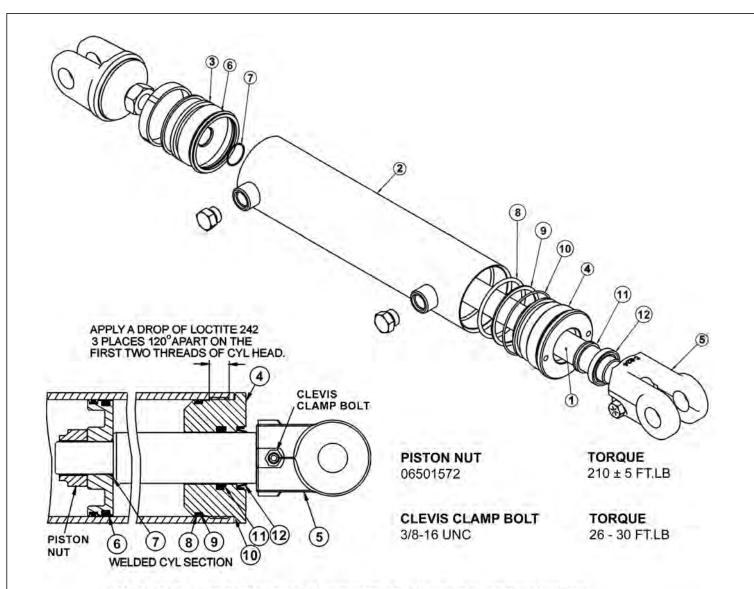
ITEM	PART NO.	QTY.	DESCRIPTION
1	TF3015	1	FLAIL PIVOT ASSY
2	TB1028	1	PIVOT ARM ASSY
3	TB1033	1	PIN CLEVIS
4	06537021	2	ROLL PIN
5	TF3097	1	PIN
6	TF3090	1	PIN
7	TB1024	1	PIN
8	TB1027	1	PIN
9	21688	1	CAPSCREW 7/16" X 3 1/4"
10	21677	1	NYLOCK NUT 7/16"
11	21635	3	CAPSCREW 3/8" X 2 1/4"
12	21627	4	NYLOCK NUT 3/8"
13	TB5030	3	BUSHING
14	6T3207	3	GREASE ZERK
15		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
16		-	CYLINDER - REFER TO BOOM ARM ASSY
17		-	FLAIL MOWER HEAD *REFER TO FLAIL ASSY
18	31723	1	CLAMP KIT,TBF50 (USED ON 50" FLAIL)
19	TB3031	2	DOUBLE HOSE CLAMP (USED ON THE 63" FLAIL)
20	21638	1	CAPSCREW 3/8" X 3"
21	35312	2	SPLIT COLLAR

3IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN



	ITEM	PART NO.	QTY.	DESCRIPTION
l		06501029	-	CYLINDER,WELDED,3" X 13.87"
l	1	06501630	1	PISTON ROD ASSY
l	2	06501648	1	BUTT & TUBE ASSY
l	3	06501649	1	PISTON
l	4	34574	1	GLAND
l	5	34575	1	LOCK NUT,1"-14 UNS (TORQUE TO 315 FT.LB.)
l	6	34576	1	SPACER
l	7	34577	1	CHECK VALVE, KEPNER
l	8	06501650	1	ORIFICE, ZERO LEAK, 0225
	9	33761	1	SEAL KIT, PACKING (ITEMS 12 THRU 19)
l	10		2	GREASE ZERK
l	12		1	O - RING
l	13		1	CAST IRON PISTON RING
l	14		1	CROWN SEAL
l	15		1	O - RING
l	16		1	O - RING
l	17		1	BACK - UP WASHER
l	18		1	U - CUP
l	19		1	WIPER
	20	34334	-	SPHERICAL BEARING (NOT SHOWN)
I				

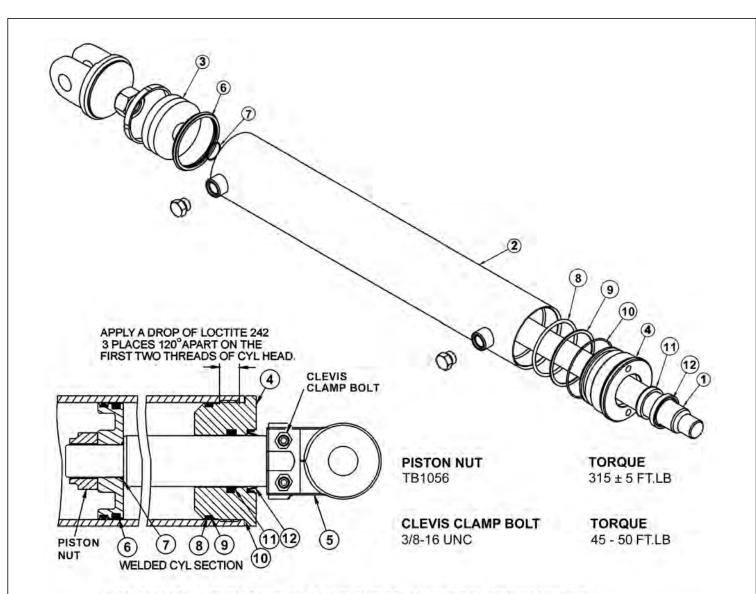
3IN X 18IN WELDED CYLINDER BREAKDOWN



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

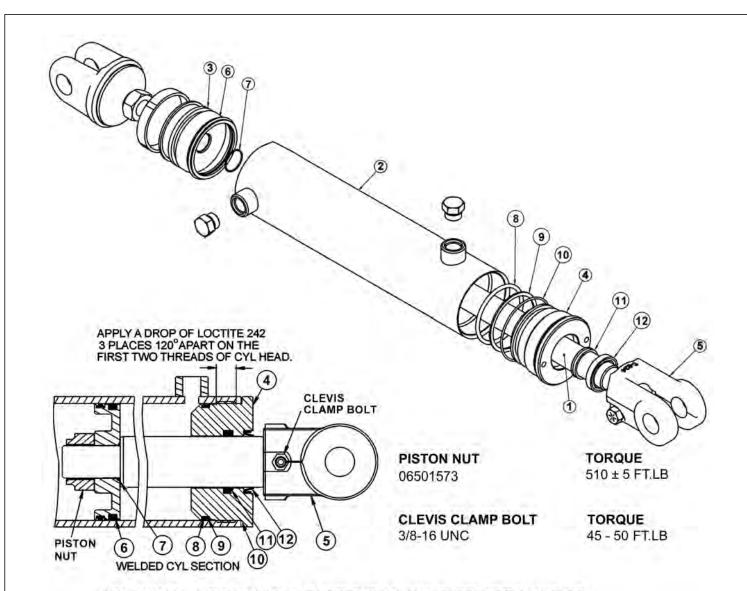
ITEM	PART NO.	QTY.	DESCRIPTION
	06501023	-	HYDRAULIC CYLINDER COMPLETE
1	06501561	1	ROD
2	06501562	1	TUBE WELDMENT
3	06501552	1	PISTON
4	06501563	1	CYLINDER HEAD
5	06501554	1	CLEVIS
	06501564	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



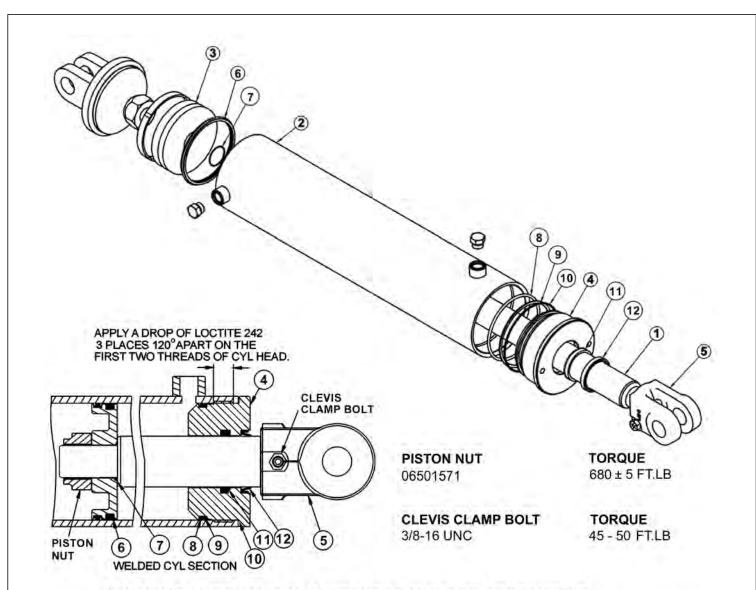
ITEM	PART NO.	QTY.	DESCRIPTION
	06501024	-	HYDRAULIC CYLINDER COMPI
1	06501565	1	ROD
2	06501566	1	TUBE WELDMENT
3	06501567	1	PISTON
4	06501568	1	CYLINDER HEAD
5	TB3033	-	CLEVIS
	06501569	-	SEAL REPAIR KIT (ITEMS 6 THROU
	00301307		SEAL REFAIR REF (ITEMS O THROUG

4IN X 20IN WELDED CYLINDER BREAKDOWN



ITEM	PART NO.	QTY.	DESCRIPTION
	06501022	-	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
5A	30172	-	CLEVIS (FOR EXTENDED BOOM)
	06501560	_	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

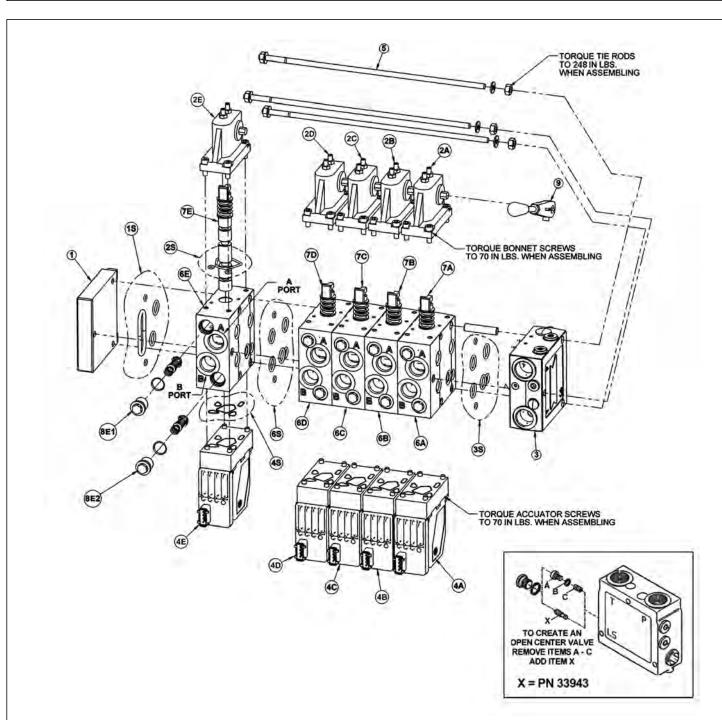
5IN X 20IN WELDED CYLINDER BREAKDOWN



ITE	M PART	NO. QTY.	DESCRIPTION
	- 06501020	-	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	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

NOT	ES	

5 SPOOL ELECTRONIC VALVE - OPEN STOW,3PS

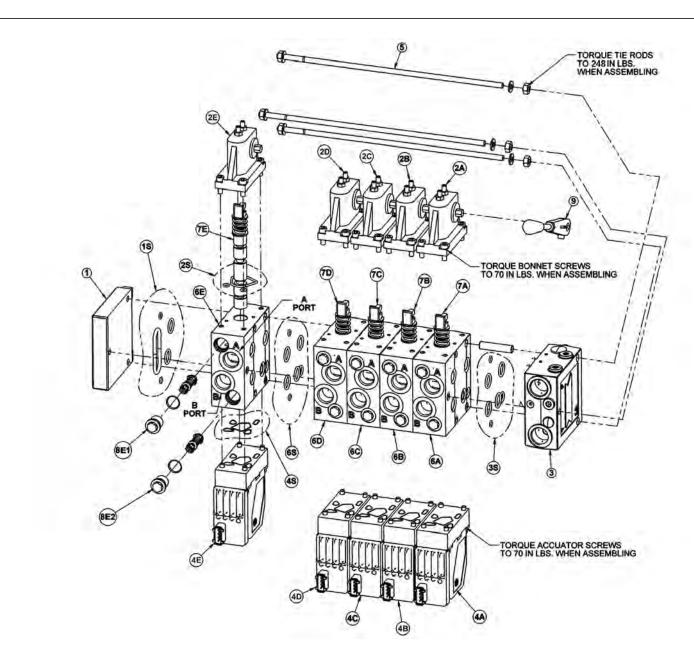


ITEM	PART NO.	QTY.	DESCRIPTION
	06700224	-	VALVE, 5SP, OS
	06502097	-	VALVE, SUB-ASSEMBLY
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2		5	BONNET
2S	06505042	1	BONNET SEAL KIT

5 SPOOL ELECTRONIC VALVE - OPEN STOW,3PS

ITEM	PART NO.	QTY.	DESCRIPTION
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET
2E	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
4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4E	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
9	33459	1	HANDLE

5 SPOOL ELECTRONIC VALVE - SIDE STOW



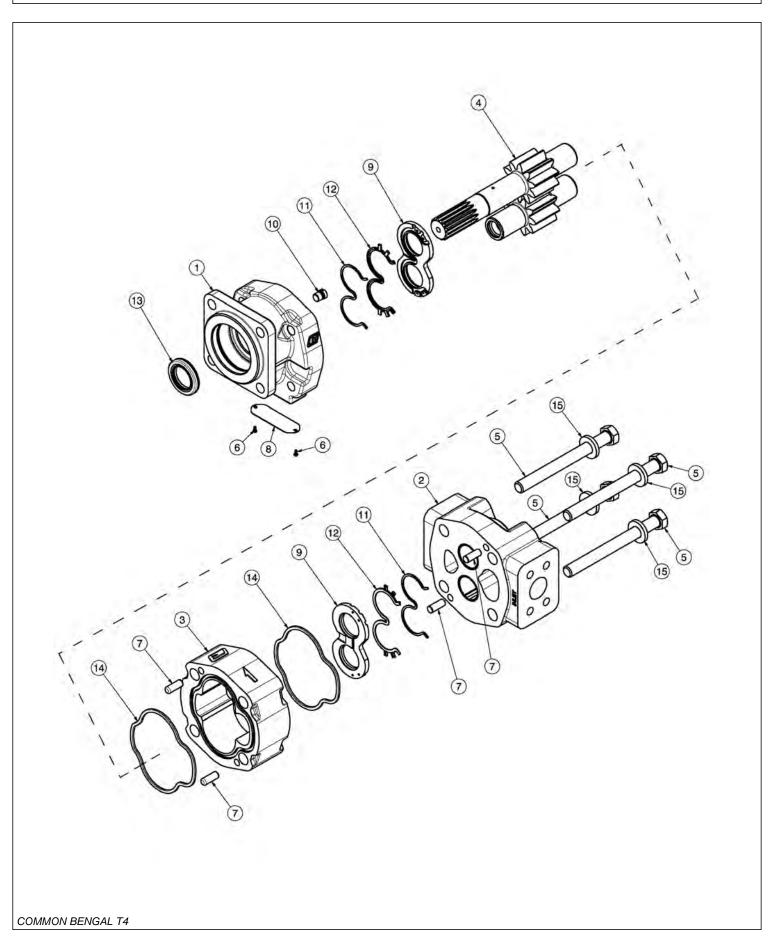
ITEM	PART NO.	QTY.	DESCRIPTION
	06502096	-	VLV,5SP,32PVG,SIDE STOW
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2		5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET
2E	42197	1	DECK SHIELD BONNET

5 SPOOL ELECTRONIC VALVE - SIDE STOW

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
3	34308	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4		5	ELECTRONIC ACCUATOR
4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4E	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

FRONT HYDRAULIC PUMP

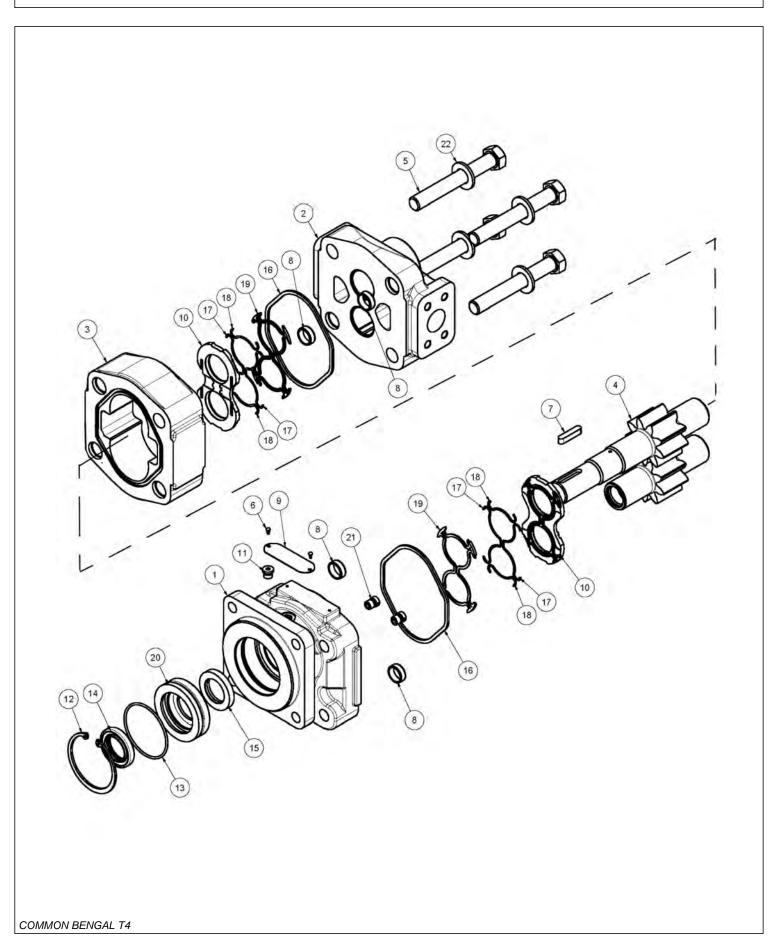


FRONT HYDRAULIC PUMP

Continued...

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

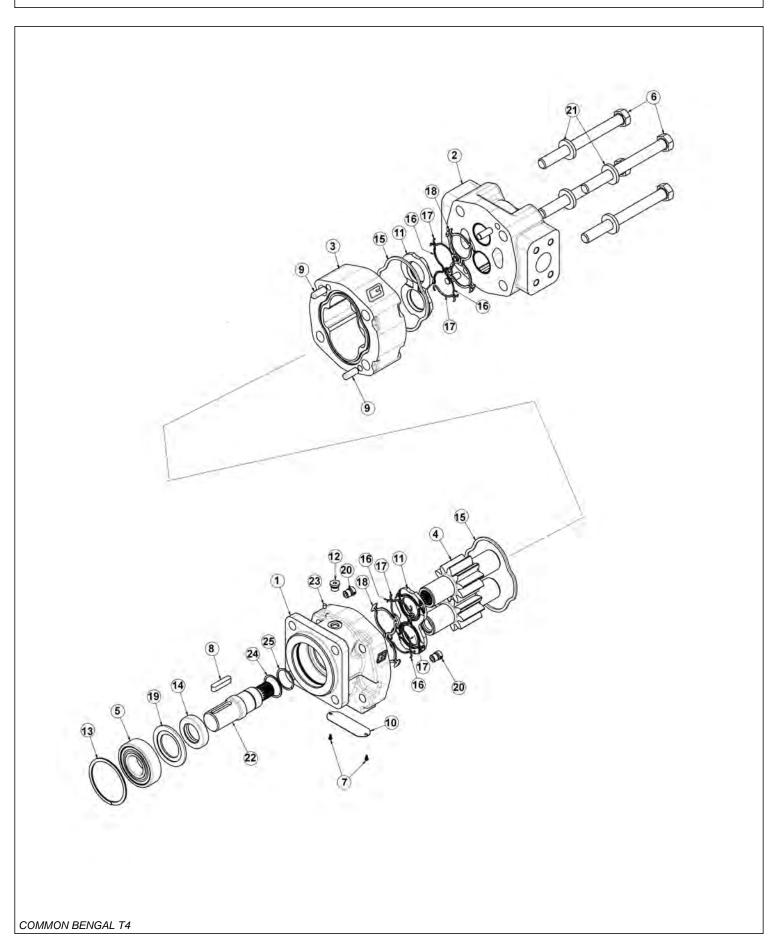
50IN AND 60IN ROTARY MOTOR BREAKDOWN



50IN AND 60IN ROTARY MOTOR BREAKDOWN

ITEM	PART NO.	QTY.	DESCRIPTION
	06504011	-	MOTOR ASSEMBLY,TRB60
	06504012	-	MOTOR ASSEMBLY,TRB50
1	22790	1	HOUSING, SEC
2	06504088	1	HOUSING, PEC
3	06504062	1	HOUSING, GEAR, TRB60
	06504089	-	HOUSING, GEAR,TRB50
4	06504090	1	SET, GEAR SHAFT
5	06504104	4	CAP SCREW,TRB60
	06504091	-	CAP SCREW,TRB50
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	2961940	1	PLUG, ODT
12	2962200	1	RING, SNAP
13	06504096	1	O RING
14	6T5101	1	SEAL, LIP
15	06504097	1	SEAL, LIP
16	22797	2	SEAL, SQ-R
17	06504098	4	SEAL, SIDE CHAN
18	06504099	4	SEAL, END CHAN
19	06504100	2	SEAL, BK-UP
20	06504101	1	RTNR, SEAL
21	6T5809	2	CHECK ASS'Y
22	06504102	4	WASHER
	06504103	-	SEAL KIT

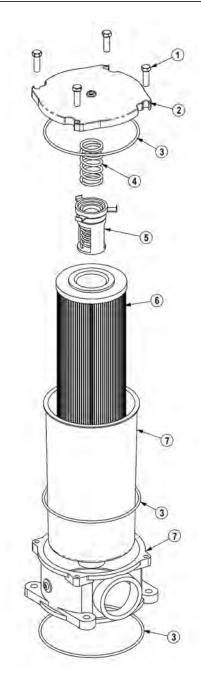
FLAIL MOTOR BREAKDOWN



FLAIL MOTOR BREAKDOWN

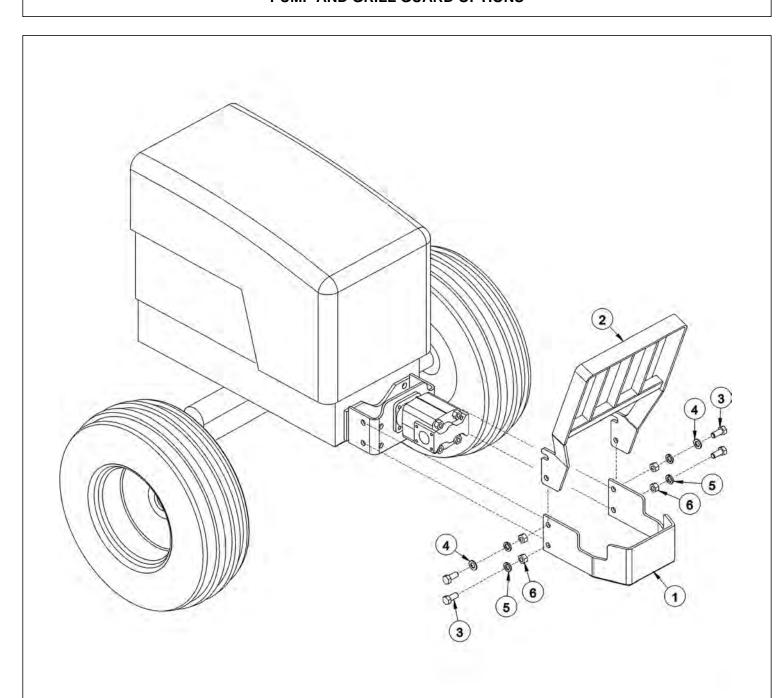
ITEM	PART NO.	QTY.	DESCRIPTION
*	06504132	-	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504141	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504117	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
10	*	1	NAMEPLATE
11	763759	1	THRUSTPLATE
12	2961940	1	PLUG, ODT (0.25)
13	TF4401	1	SNAP RING
14	06504142	1	LIP SEAL
15	TF4410	2	GASKET SEAL
16	06504046	4	SIDE SEAL
17	06504047	4	END SEAL
18	TF4407	2	BACK-UP SEAL
19	06504122	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	2961917	4	WASHER
22	06504140	1	SHAFT
23	06504139	1	BREATHER
24	06504121	1	SPACER, BRG
25	06504119	1	SNAP RING
*	06504116	-	SEAL KIT

RESERVOIR TANK FILTER ASSEMBLY



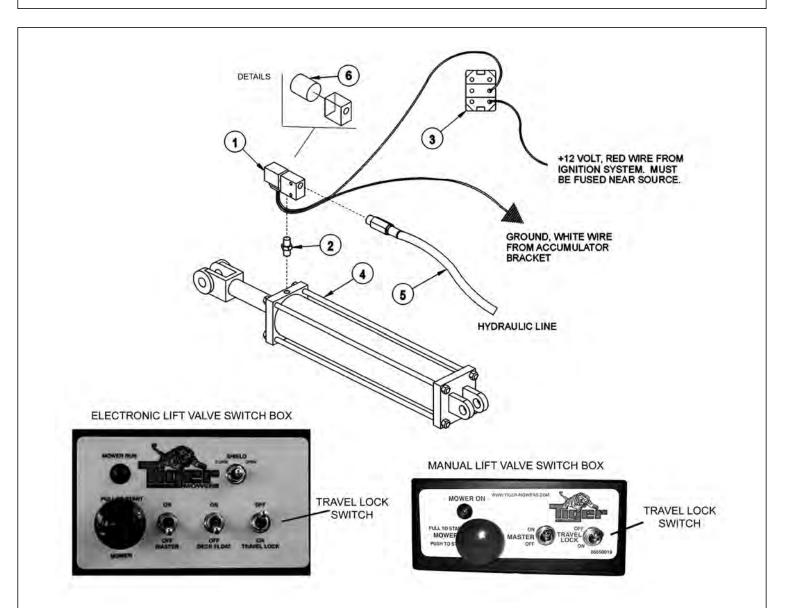
	ITEM	PART NO.	QTY.	DESCRIPTION
		06505044	-	FILTER ASSY SAE 10 MICRON
	1	28583	4	CAPSCREW,8MM X 25MM(1.25 PITCH)
	2	06505045	1	COVER
	3	06505046	1	SEAL KIT
	4	06505047	1	SPRING
	5	06505048	1	BYPASS
	6	35259	1	FILTER,10 MIC,RETURN LINE
	7	06505049	1	CAN/BODY
l				

PUMP AND GRILL GUARD OPTIONS



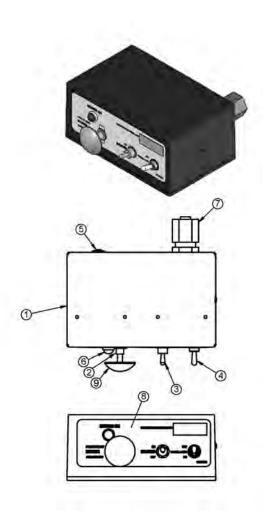
IIEM	PART NO.	QTY.	DESCRIPTION
1	32430	1	UNIVERSAL PUMP GUARD
2	32737	1	UNIVERSAL GRILL GUARD
3	21833	4	CAPSCREW,3/4" X 2-1/4",NC
4	22021	2	FLATWASHER,3/4"
5	21993	4	LOCKWASHER,3/4"
6	21825	4	HEX NUT,3/4",NC

BOOM TRAVEL LOCK



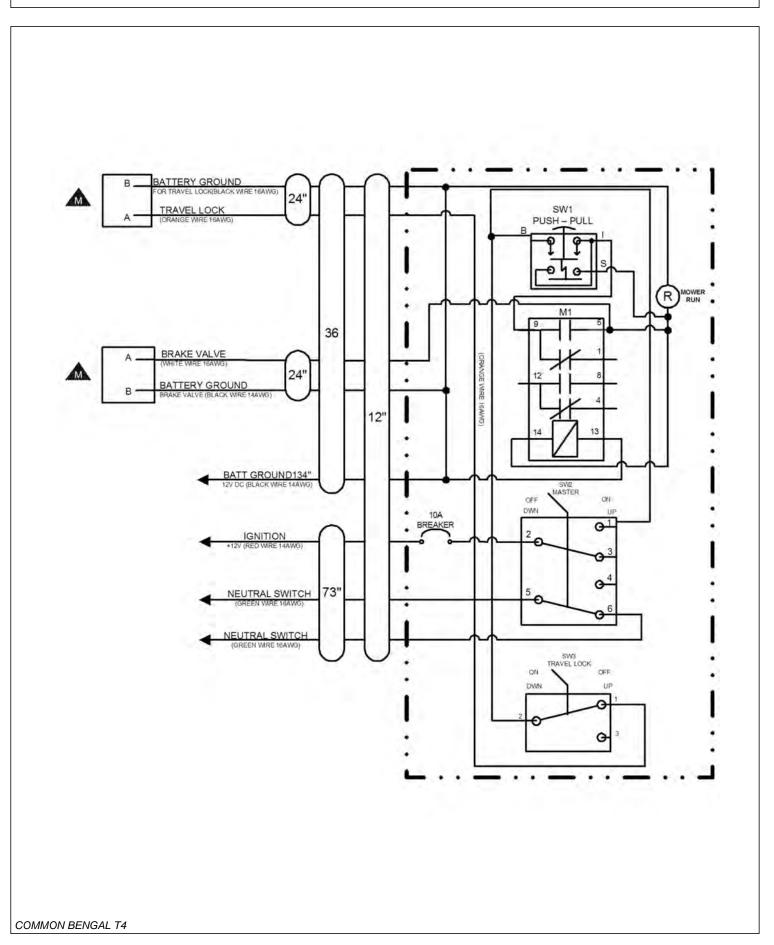
ITEM	PART NO.	QTY.	DESCRIPTION
1	06510050	1	HYDRAULIC TRAVEL LOCK VALVE
2	31329	1	ADAPTER - STANDARD BOOM
	31611	1	ADAPTER - EXTENDED BOOM
3	34532	1	SWITCH,TRAVEL LOCK
4		-	MAIN BOOM CYLINDER *REFER TO BOOM ASSY
5		-	HOSE / FITTINGS *REFER TO BOOM HYD ASSY
6	06510092	1	COIL ,TRAVEL LOCK

MANUAL LIFT VALVE SWITCH BOX

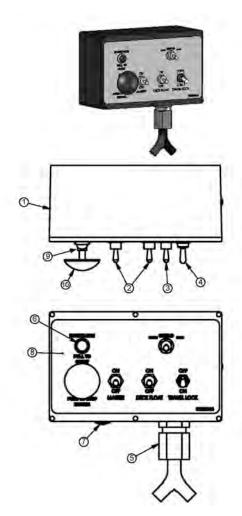


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514012	1	SWBX,ALUM,BLK,06510100
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	34532	1	SWITCH,TRVL LCK
5	06514014	1	BREAKER,10A,SWBX
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
8	06550019	1	DECAL,SWTCHBX,BOOM,CG
9	02964063	1	KNOB,RED
10	35227	1	RELAY,DP,DT,12V,LY2F,35226

MANUAL LIFT VALVE SCHEMATIC



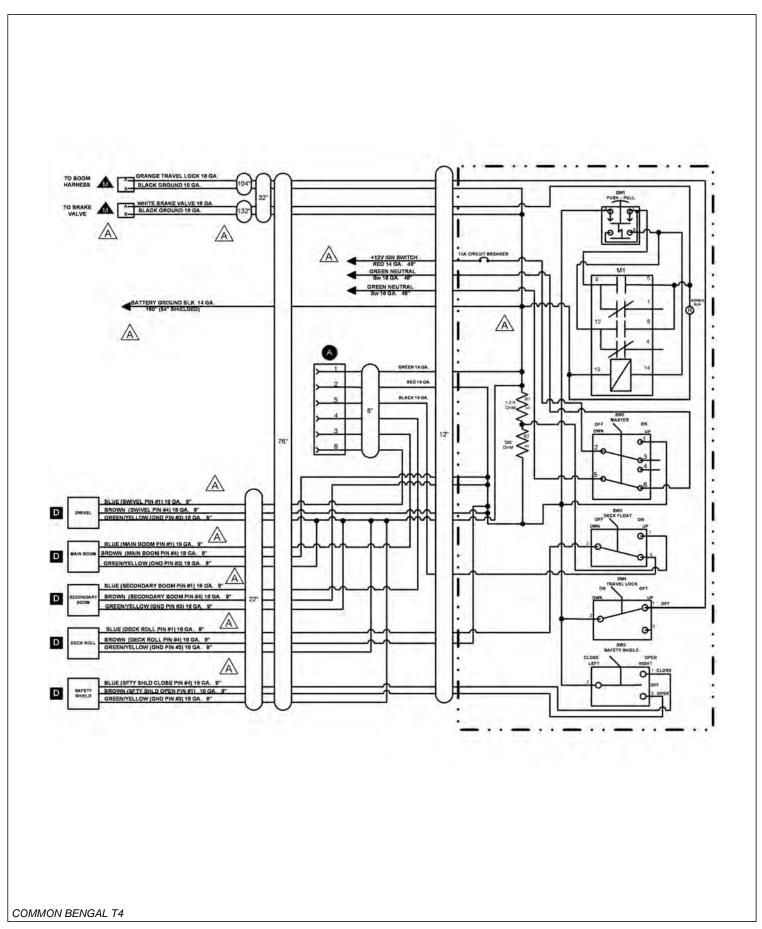
ELECTRONIC LIFT VALVE SWITCH BOX



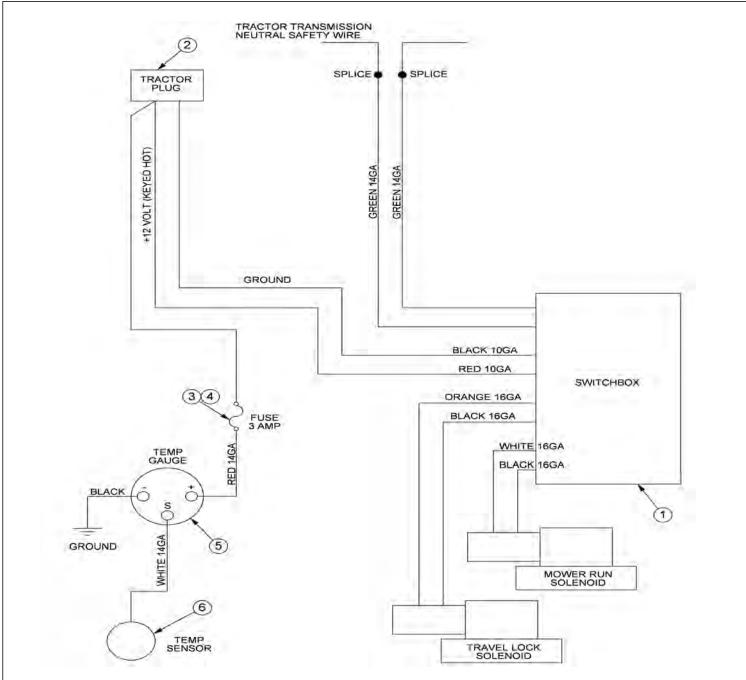
ITEM	PART NO.	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,MOWER,COLEHERSEE
10	02964063	1	KNOB,RED
11	35227	1	RELAY,DP,DT,12V,LY2F,35226

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ELECTRONIC LIFT VALVE SCHEMATIC

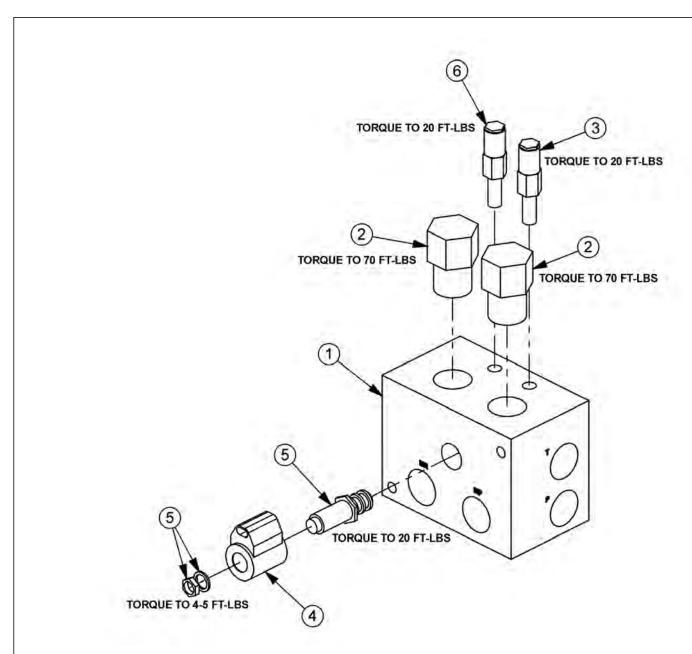


SOLENOID SWITCH BOX AND WIRING



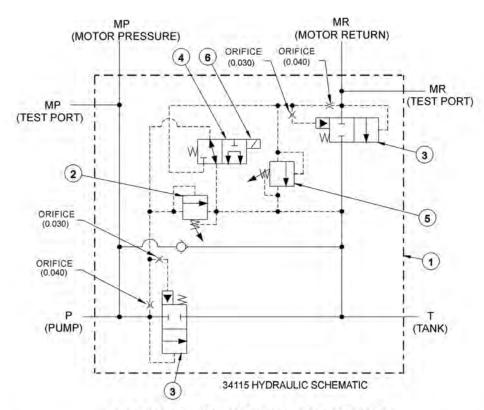
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWITCH BOX
2	RE37651	1	PLUG,AUX PWR
3	24204	-	FUSE HOLDER,IN-LINE (OPTION)
4	6T3965	-	FUSE,3AMP (OPTION)
5	6T3934	-	TEMPERATURE GAUGE (OPTION)
6	6T3931	-	TEMPERATURE SENSOR (OPTION)
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BRAKE VALVE ASSEMBLY



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



BRAKE VALVE TROUBLESHOOTING

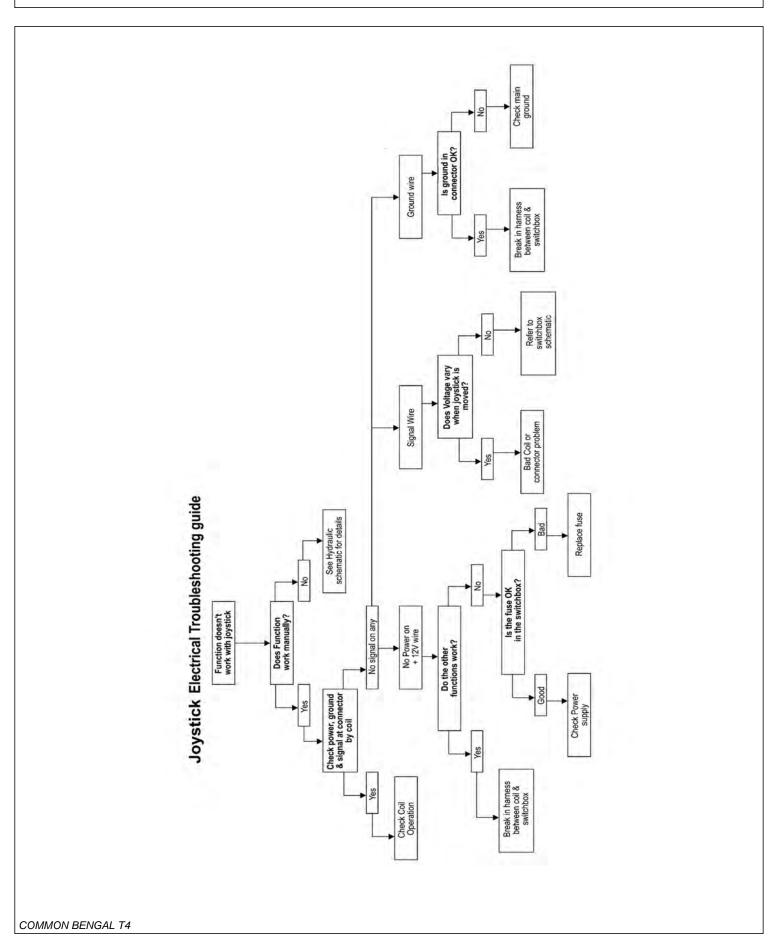
FAILURE MODE:	CHECK STEPS
 MOWER WILL NOT START - system pressure is low (engine not lugging). 	1 thru 6
 MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure. 	7
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.	3 thru 5
- MOWER BLADE WILL NOT STOP -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

CORRECTIVE STEPS:

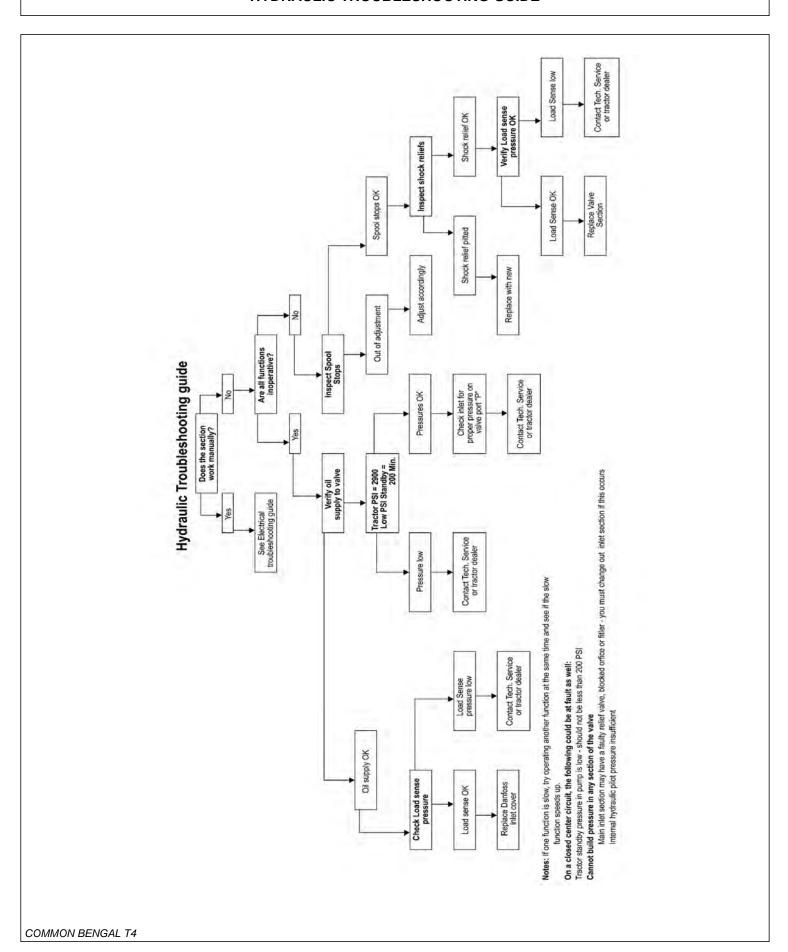
- 1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
- 2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
- 3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
- 4. Remove, inspect 3000 psi relief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

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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 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – Ground

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 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – 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 #4 should be equal to supply voltage when switch is operated in B direction.

Pin #1 - Signal Voltage (Shield Open), Pin #4 - Signal Voltage (Shield Close), Pin #3 - 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 switchbox). Shorted to positive, ground, or other. Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING - CONTINUED

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.

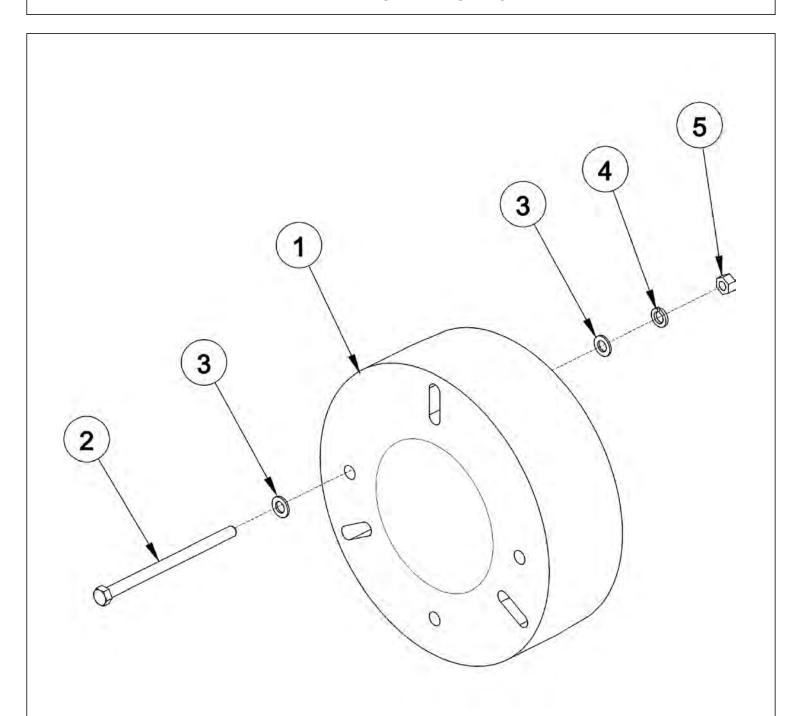
Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

WHEEL WEIGHT - BENGAL 18



ITEM	PART NO.	QTY.	DESCRIPTION
1	30687	1	500# WHEEL WEIGHT
2	21956	4	CAPSCREW,3/4" X 13",NC
3	22021	8	FLATWASHER,3/4"
4	21993	4	LOCKWASHER,3/4"
5	21825	4	HEX NUT,3/4",NC

COMMON BENGAL T4



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 said equipment that in Tiger's adjustment, 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, in his service shop and during his 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 bee 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, though, 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.

