

BENGAL **ASSEMBLIES**

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Tiger Corporation HH€FÁ⊃ÈŠ[žã^ÁQĘ^È Ùãi č¢ÁØæ∳•ÊÂÙÖÁÄÍÏ F€Ï 1-800-843-6849 1-605-336-7900 www.tigermowers.com

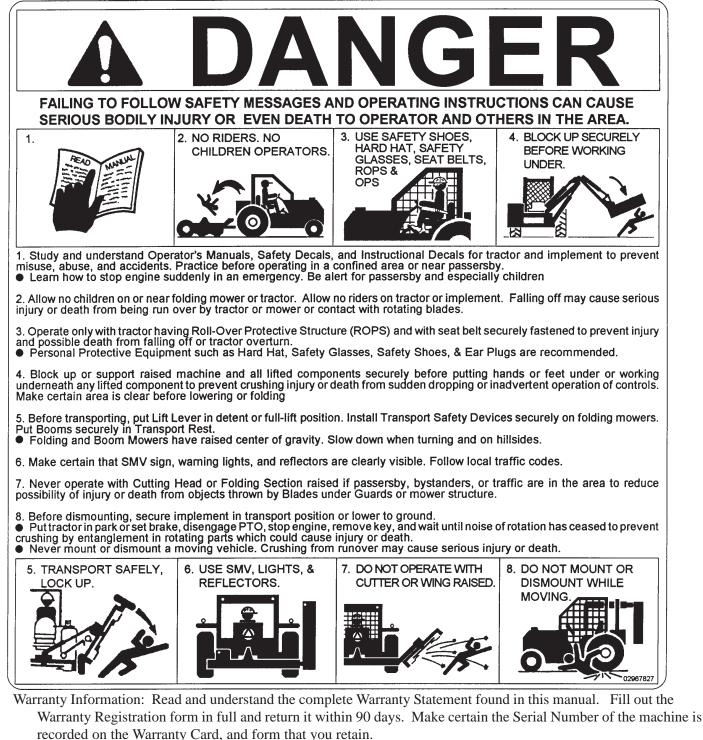
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TO THE OWNER / OPERATOR / DEALER

 $\begin{array}{l} Cfl Åi] [A^{+} a a A^{+} [c] A^{+} A^{+} A^{+} [c] A^{+} A$

 $\begin{array}{l} \textbf{BEFORE YOU START!! } \ddot{U} \approx \dot{A} \otimes \dot{A} \otimes \dot{A} \approx \dot{C} \hat{A} \wedge \bullet \bullet \neq & \bullet \dot{A} \\ \dot{U} \approx \dot{A} \otimes \dot{A} \otimes$

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



FORWARD

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

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

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

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

- Classify the problem
 - Hydraulic, electrical or mechanical Read the trouble shooting section
 - Tractor or Truck chassis Contact vehicle dealer
- If unable to correct the problem yourself, contact your local Tiger Dealer after gathering:
 - Machine model ______
 - Serial number _____
 - Dealer name
 - Detailed information about the problem including results of troubleshooting

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

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

MANUFACTURED BY:	DISTRIBUTED BY:	
Tiger Corporation		
3301 N. Louise Ave.		
Sioux Falls, SD 57107	1	
1-800-843-6849	1	
1-605-336-7900		
www.tiger-mowers.com		

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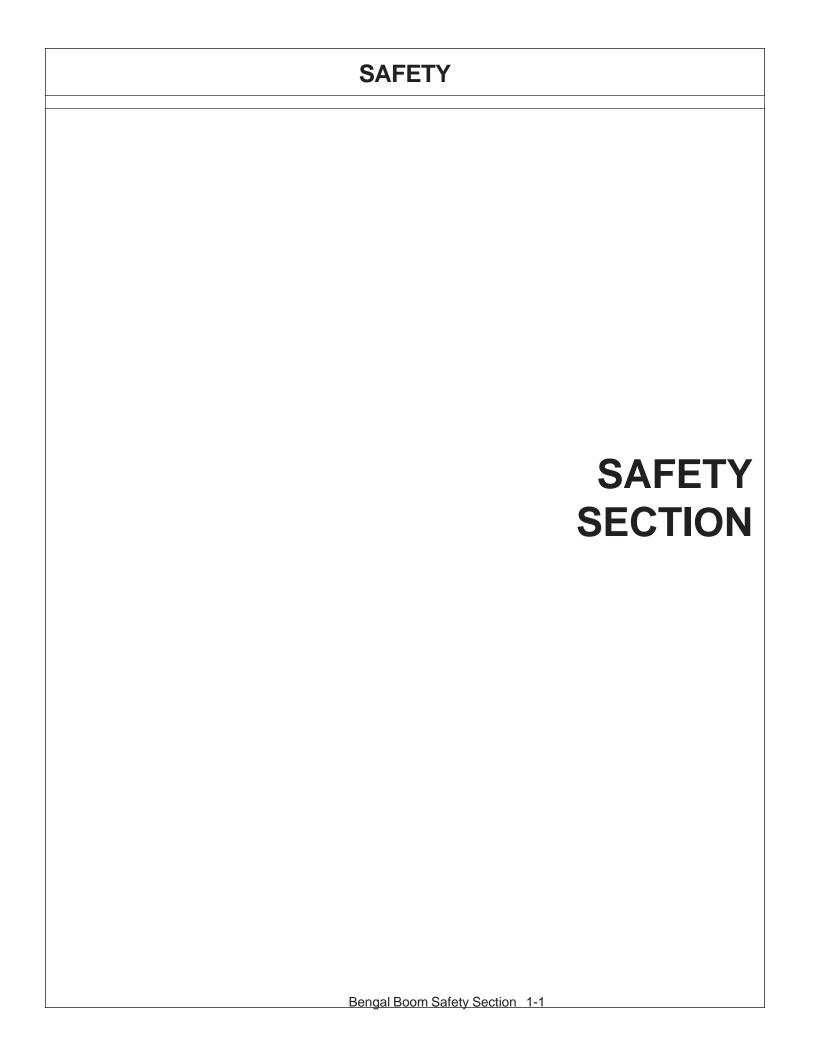


This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.





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.

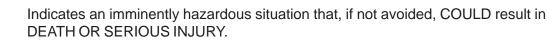


The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!" The symbol and signal word are intended to warn the owner / operator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

WARNING!





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

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

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!



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)



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





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

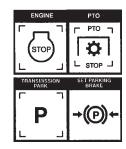


WARNING!

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



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





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





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





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





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



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



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





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



WARNING!

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

SE PERMA-



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMA-NENT HEARING LOSS! Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. (SG-I7)

WARNING!



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

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

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

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. (SG-19) Bengal Boom Safety Section 1-5







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)



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





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

(SG-23)



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





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



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)



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



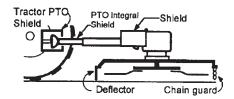
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care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



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-5)





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

WARNING!



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



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





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



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

WARNING!



Do not mow with two machines in the same area except with Cab tractors with the windows closed. $$_{\rm (SGM-11)}$$



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 UN-LESS:**

- -Front and Rear Deflectors are installed and in good, working condition;
- -Mower Head is running close to and parallel to the ground without exposed Blades;
- -Passersby are outside the existing thrown-object zone;
- -All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.
- NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected closely with any remaining debris being removed, and mowed again at desired final height. (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)



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)



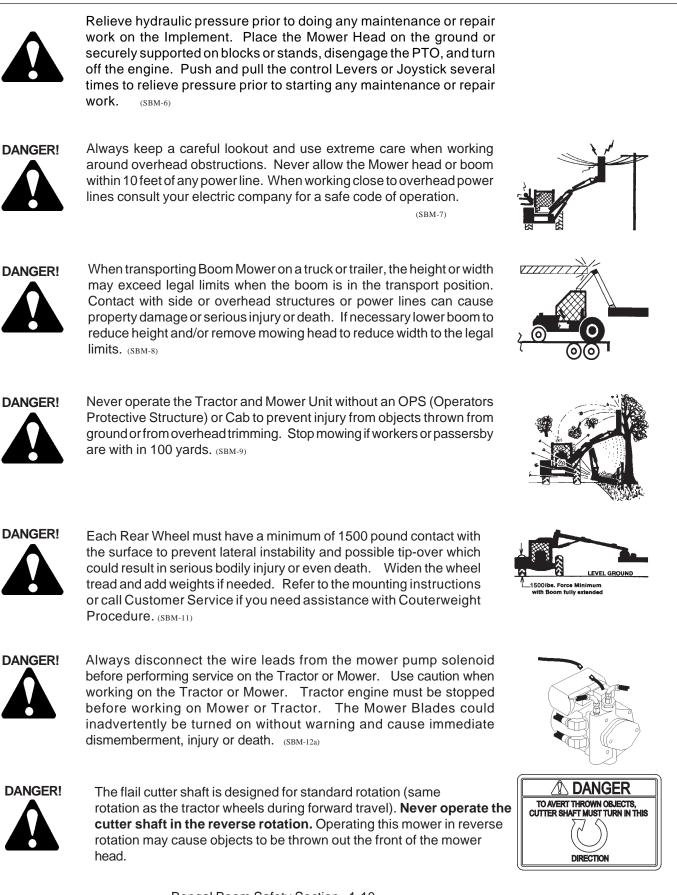


Never Leave the mower unattended while the head is in the raised position. The mower could fall causing serious injury to anyone who might inadvertently be under the mower. (SBM-4)





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



WARNING!



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

WARNING!



Battery 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)



AWARNING Do NOT OPERATE WITH BELT SHIELD REMOVED. FINGER(S) MAY BE PINCHED OFF IF CAUGHT BETWEEN V-BELT AND PULLEY. 00758194 PART NO. LOCATION

00758194 MOWER DECK



02962764 MAIN BOOM, SECONDARY BOOM, MAIN FRAME



02962765 MAIN FRAME

02965262 HYDRAULIC TANK



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.

PART NO. LOCATION

02967668 MOWER DECK

02971123 HYDRAULIC TANK



POLYCARBONATE WINDOW

REFER TO OPERATORS MANUAL FOR CLEANING INSTRUCTIONS

DO NOT LUBRICATE WITH AUTOMATIC GREASE GUN. GREASE WITH HAND GREASE GUN ONLY. 03200285 OUTSIDE OF CAB

22645 INSIDE OF CAB

22839 MOWER DECK



CONTACTED, SHUT CONTROL SWITCH OFF IMMEDIATELY. DO NOT RAISE CUTTER HEAD UNTIL ALL MOVING PARTS HAVE STOPPED.



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

24028

PART NO. LOCATION

22840 INSIDE OF CAB

24028 MOWER DECK

25387 INSIDE OF CAB



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

A WARNING

Valve section TF3009 with detented float to be used with only Boom Flail mower. DO NOT operate a Boom rotary mower with the float section installed. PART NO. LOCATION

27001 INSIDE OF CAB



31935 INSIDE OF CAB



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.

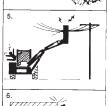
5. WHEN TRANSPORTING BOOM MOWERS ON A TRUCK OR TRAILER. THE HEIGHT OR WIDTH MAY EXCEED LEGAL LIMITS. CONTACT WITH SIDE OR OVERHEAD STRUCTURES OR POWER LINES CAN CAUSE SERIOUS INJURY OR DEATH.

LOWER BOOM TO REDUCE HEIGHT AND/OR REMOVE MOWING HEAD TO REDUCE WIDTH TO THE LEGAL LIMITS, IF NEEDED. 32707



3.





HYDRAULIC TANK

32707

42350 MOWER DECK

32708

ATTENTION

SERVICE HYDRAULIC SYSTEM WITH UNIVERSAL TRACTOR HYDRAULIC OIL. PART NO. LOCATION

32708 HYDRAULIC TANK

ACAUTION

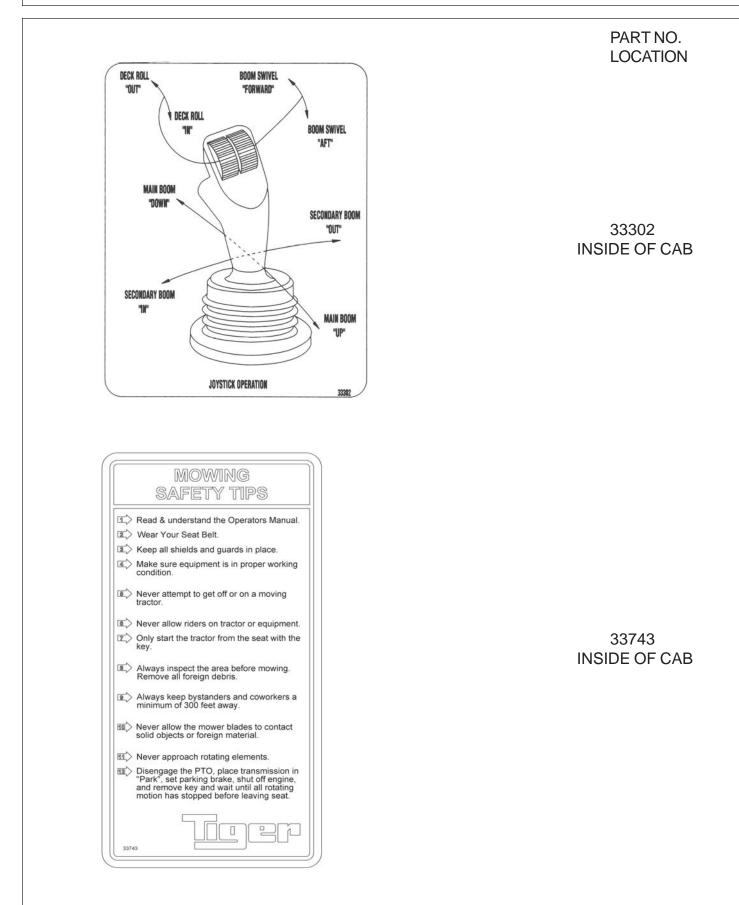
For your safety and to guarantee optimum product reliability, always use genuine TIGER replacement parts. The use of inferior "will-fit" parts will void warranty of your TIGER implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions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

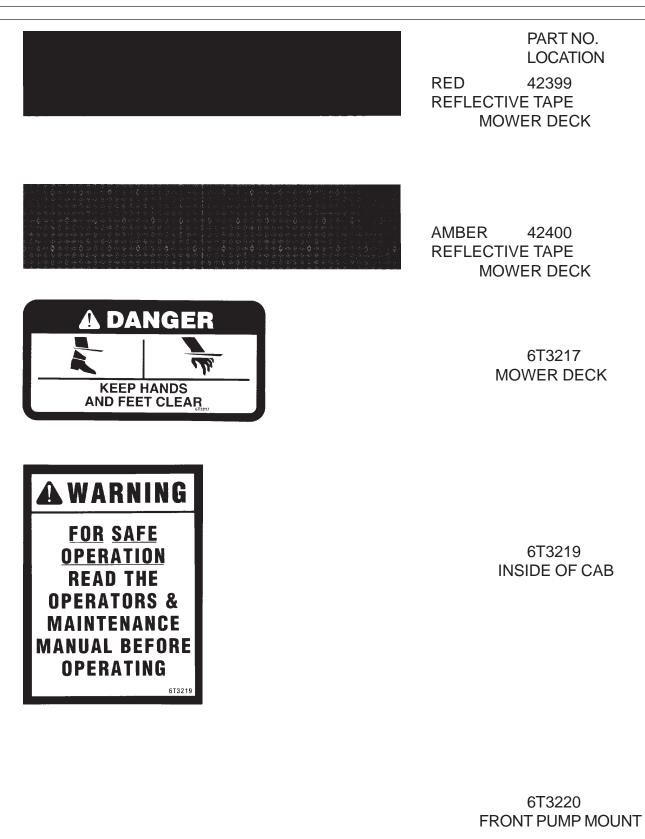
32709 INSIDE OF CAB

33224 MOWER DECK



33438 MAIN BOOM





ACAUTION

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. 673221

PART NO. LOCATION

6T3221 **INSIDE OF CAB**

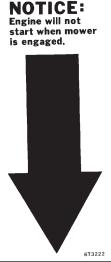
6T3222 **INSIDE OF CAB**

6T3224 MOWER DECK



6T3224

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.



2. CENTER DECK BETWEEN FRONT AND REAR TIRES. 3. PLACE BOOM INTO TRAVEL POSITION.

3. PLACE BOOM INTO TRAVEL POSITION. FAILURE TO DO SO MAY RESULT IN TIRE DAMAGE

AND/OR INJURY. 6T3231

A CAUTION

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

PART NO.

LOCATION

6T3230

INSIDE OF CAB

6T3231 INSIDE OF CAB

6T3233 HYDRAULIC TANK

A CAUTION

6T-3233

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

A WARNING WHEN CUTTING HEAVY BRUSH BLADE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 600 FT. LBS.	51-3237	PART NO. LOCATION 6T3237 INSIDE OF CAB	
DOWN MAIN BOOM UP	DECK ROLL IN 6T3241	6T3241 INSIDE OF CAB	
	DUT FORWARD CLOSE	INSIDE OF CAB	
TI IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED, REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FAILURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH.	IMPORTANT • WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. • SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS. 67-3243	6T3243 INSIDE OF CAB	
CUTTER SHAFT BEARI GREASE EVERY 8 HRS. OR D NOTE: If unusual environmental conditions exist-ex	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.		
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.			
Benga	Boom Safety Section 1-22		

A WARNING

DO NOT OPERATE MOWER WITH SAFETY SHIELD REMOVED.

TB1011 MOWER DECK

0

0



Tiger Corporation

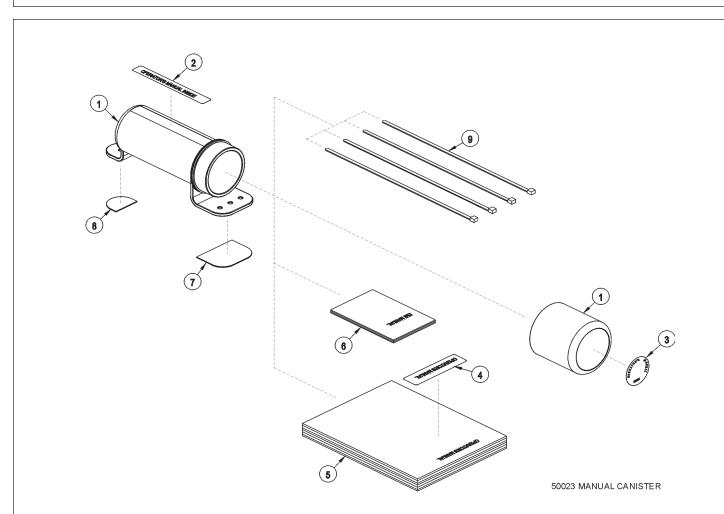
800-843-6849 www.tiger-mowers.com

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 Lubrican
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

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Tiger PN 34852 O

34852 HYDRAULIC TANK



ITEM	PARTNO.	QTY.	DESCRIPTION
1	50023 00776031 33997	AVAIL 1 1	MANUAL CANISTER COMPLETE ROUND MANUAL CANISTER DECAL, SHEET, MANUAL CANISTER
2		*	DECAL
3		*	DECAL
4		*	DECAL
5	*	AVAIL	SPECIFIC PRODUCT MANUAL
6	33753	1	E M I SAFETY MANUAL
7	34296	1	FRONT ADHESIVE PAD
8	34297	1	REAR ADHESIVE PAD
9	6T1823	4	ZIP TIE 14" LONG

NOTE:

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

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Regulations

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

Employer Responsibilities:

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

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

Child Labor Under 16 Years of Age

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

ASSEMBLY SECTION

O≣•^{ à|^ÂÛ^&cã[}}ÁGËF

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.

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TRACTOR PREPARATION

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(ASM-C-0024)

CRANKSHAFT ADAPTER

ADJUSTING REAR WHEELS

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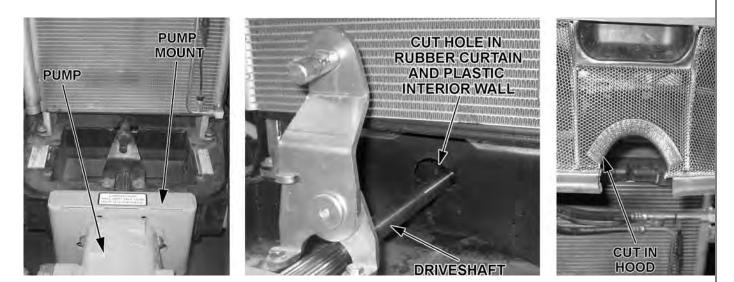
FRONT PUMP MOUNTING

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and 270°. This can be done by turning the engine over with a pipe wrench on the coupler. 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. ÁASM-NH-0024 T5 115)



ASSEMBLY

POLYCARBONATE SAFETY WINDOW

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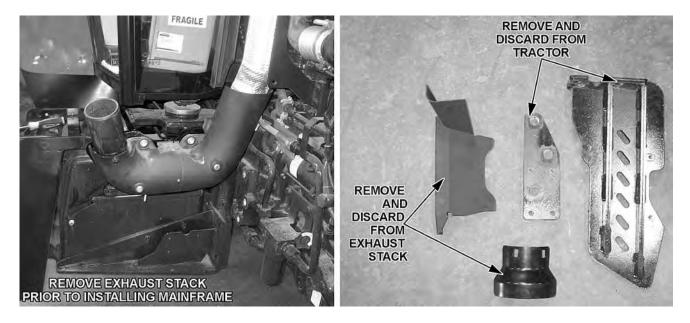
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EXHAUST MODIFICATION

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RIGHT TURN SIGNAL RELOCATION



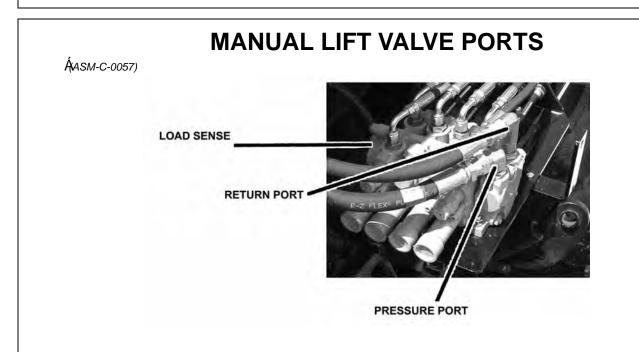
MAINFRAME INSTALLATION

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SWITCHBOX WIRING

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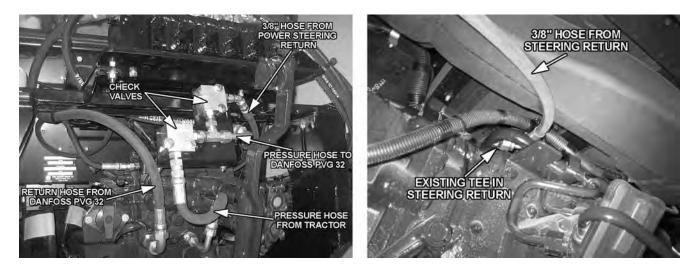


TRACTOR LOAD SENSE, PRESSURE & RETURN

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LIFT VALVE HOSE ROUTING

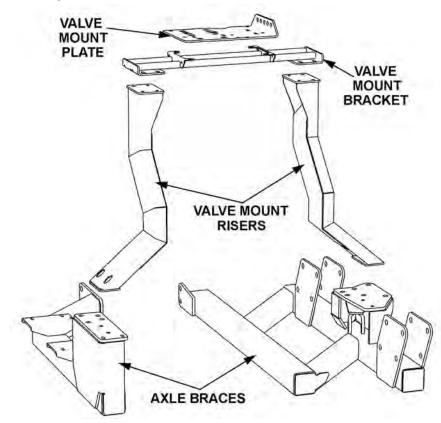
NOTE: DO NOT CUT INTO TUBES / HOSES / WIRES WHEN DRILLING THROUGH METAL OR PLASTIC!



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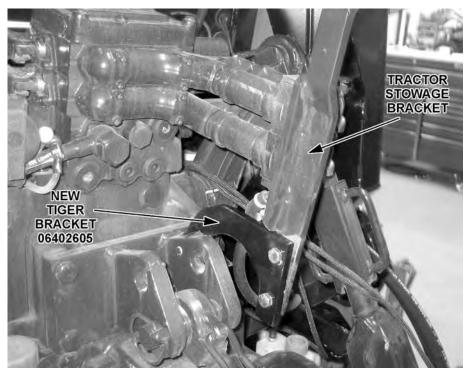
LIFT VALVE MOUNTING

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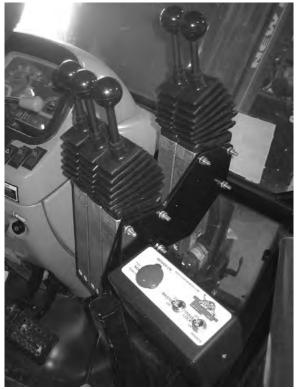


STOWAGE BRACKET RELOCATION

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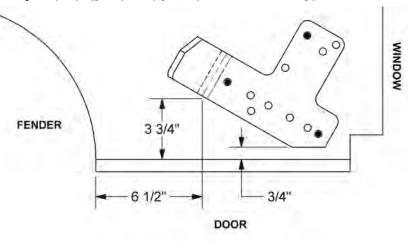
MANUAL SWITCHBOX MOUNTING



CABLE CONTROL/JOYSTICK STAND

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NOTE ON HUSCO CONTROL VALVES

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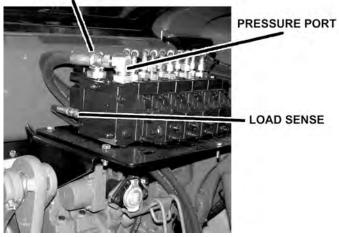


ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)Å

DANFOSS VALVE

RETURN PORT

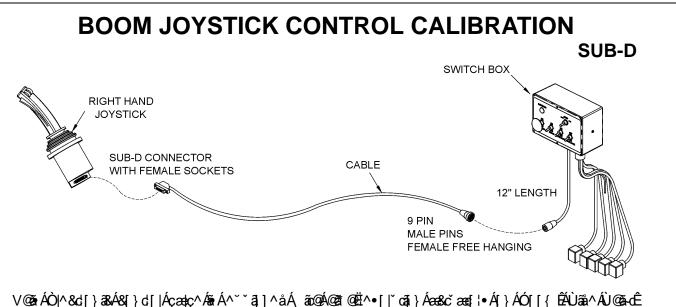


LOAD SENSE

JOYSTICK SWITCHBOX MOUNTING

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BOOM JOYSTICK CONTROL CALIBRATION (CONTINUED)

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Set the dead band compensation potentiometer first.

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Setting Signal Adaptation Potentiometers:

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BOOM JOYSTICK CONTROL CALIBRATION (CONTINUED)

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

SIDE

SHIFTKÁÁÁ %GEÁÚ[¦dÉÚãå^ÁÛ@áÁUčkK ÌËF€ÁÛ^&[}å•

(Position deck above ground and shift completely inboard. Then index the side shift "out" function and determine the time required for the deck to shift completly outboard.) Á

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(Position deck above ground and shift completely outboard. Then index the side shift "in" function and determine the time required for the deck to shift completely inboard.)

DECK ROLL: %GEÁÚ[¦dÉÖ^&\ÁU`dK ÏËJÁÛ^&[}å•

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

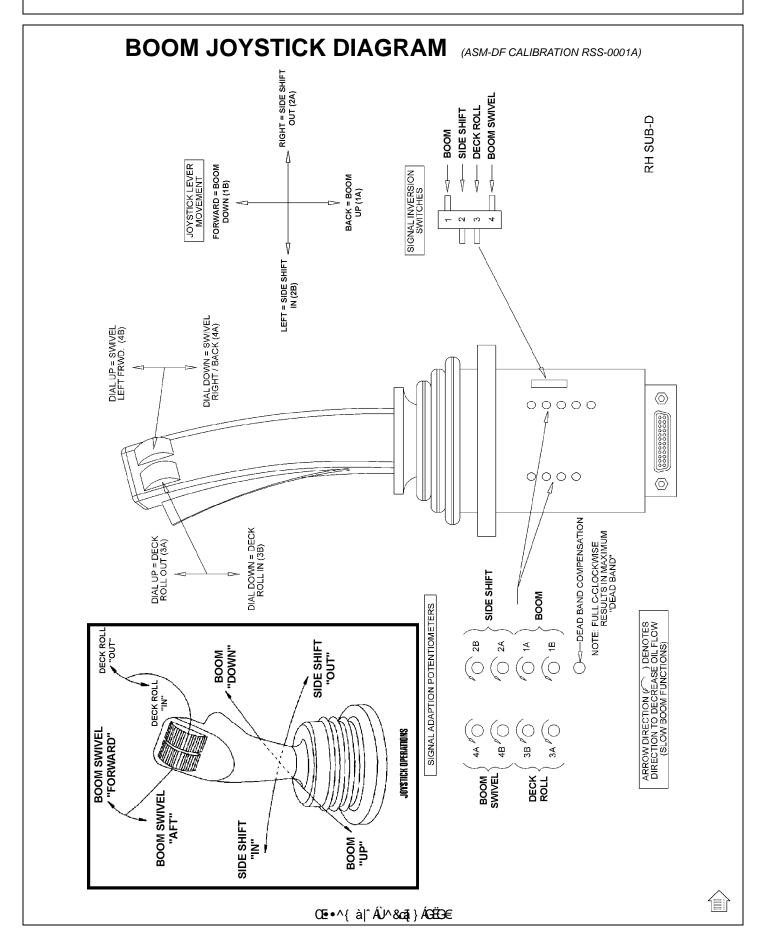
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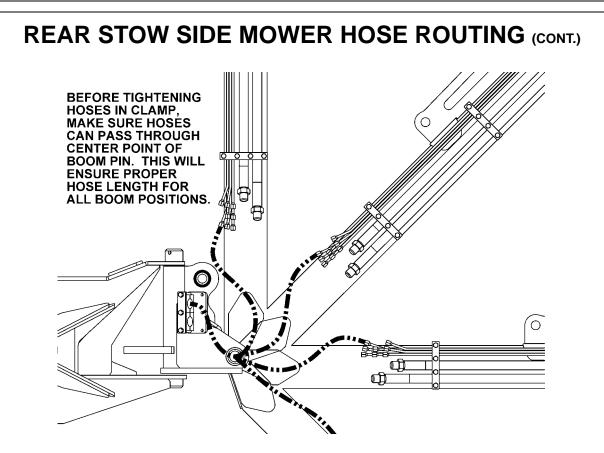
BOOM

SWIVEL: %GEÁŰ[¦dÊÓ[[{ ÁŒdÁF€ËFGÂÙ^&[}å•

(Position boom, rotate head to be level with ground, lower boom until deck is just above ground, and swivel boom full forward. Then index the boom swivel "aft" function and determine the time required for the boom to swivel full aft. Use caution when doing this, stop boom before boom contacts tire.)

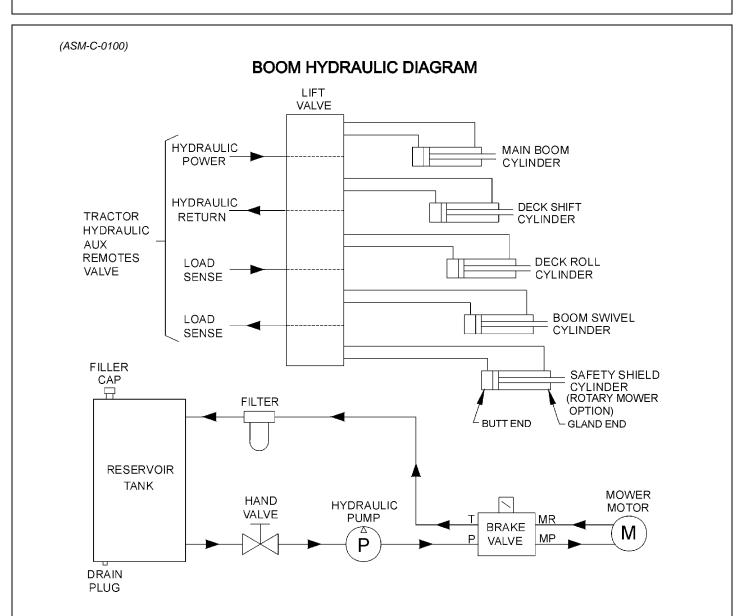
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ACCUMULATOR INSTALLATION



WHEEL WELL HYDRAULIC TANK INSTALLATION

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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

Q• cæqlāj*Á dænā @EĀ lí óÁæj å ÁJ€óÁ U Ëāj*•Á^˘ ã^•Á @eæÁ@ Á U Ëāj*Áæj å Á, æ @ ¦Áà^Á] Áæt æaāj•óÁc@ •, ãç^|Áa[å ĚÁQ)•^¦óÁ@ Á, ãç^|Áaj á Áš ¦ Áāj Á } da Á@ Á, ãç^|Áār Á [āj c*å Áāj Ás@ Áå^•ā^å Åa ā Asāā Asdāt } Áaj å ÁU Ë ¦āj*Á&[} cæScóña Á(æå^ÈÁAP[|å Á, ãç^ |Áāj Á ^ óÅa ãa^8cāt } Á, ãc@ÁæÁ, ¦^} & @éæj å Áč ¦} Ác@ Á U Ëāj*Á j`óÁeç æ̂ ~{[{ Ás@ Á, ãç^ |Áa[å Áæj å Á&æz^~` ||^ Ázā @^} ĚÁ(ASM-C-0056)

INSTALLING NATIONAL PIPE FITTINGS

Y@}^ç^¦Áj•czeļjā,*ÁzzÁjā]^Áãzāj,*Éý, ¦zajÁc@Ác@^zaå•Á&[[&];ā*ÁzzÁ@Á?}åDÁjãz@Áz^+[]; czaj^ĚÁQ,Ác@äÁ, zêÊźc@Ázzj^Á,jäjÁs^Ázã@?}^åÁj@}Ajj•czeļ^åĚÁPUVÒKÁKQÁšaÁ,[cÁ,^&^••za⁺ÁţÁzzj^ÁUË ¦ā]*Ázīāj*•ÉÁj¦ÁcQ••⁄Ázj•czeļ^åÁşJÁ;jãç^إ•ĚÁ(AS*M-C-0088*)

GENERAL HOSE INSTALLATION

Ü^~^¦ÁqłÁc@?ÁÚætorÁÙ^&cął}Á~{¦Áå^cæa‡^åÁāj-{¦{æaāl}}Áæà[čóA@;•^•Áæ)åÁ~ãacāj*•Á-{¦Ác@æ æb;]}å&æaāl}}Ék/ASM-C-0011)

HOSE COVERING

Ù^&`¦^ÁQ • ^ • Ág * ^ c@ ¦ Á ão QÁ âj Ázð • Á @ ¦^ c^ ¦ Áf [• ^ ÈÁÁY ¦ æj Ás@ ÁQ • ^ • Ás^ c, ^ } Ás@ Á, ãç^ | Ás) å { æj Áà] (á ão QÁ c@ A @Q • ^ Á&[c^ ¦ Á] | [çãa ^ à ÈÁY ¦ æj Ác@ A @Q • ^ • Áà^ c, ^ } Ác@ Á, æj Ás[[{ Áæj å • ^ &[} å æf Áa] [{ Á ão QÁ @ • ^ Á&[c^ ¦ Á] | [çãa ^ à ÈÁY @ !^ ^ A @Q • ^ • Áa c, ^ } Ås@ Á æj Ás] [{ Áæj å • ^ &[} å æf Áa[] { Á ão QÁ @ • ^ Á&[c^ ¦ Á] | [çãa ^ à ÈÁY @ !^ ^ A @Q • ^ • Ág æf A @ A @Q • ^ A [æf A @ * ^ & * ^ EÁ | æj Á ão QÁ]] ã ÁQ • ^ Áæj à Á ^ &` | ^ Á ão QÁQ • ^ Á&] • Á [] • Á [Á áj Ázð • È

U}Á,[}ÉBæàÁ',ẩឆ໋ÉAČ@Á,¦´••`¦^Áæ) å Á'č'¦`Á@•^•`Á',[{ ÁœĂ&]}d[}AÇæţÇ^Á, āļÁæţ [Á) ^^àÁ[Áæ] '[` &åÁāj •ãa^ÁœÁ, [& &ãç^ÁÁ@ •^Á, [æ] ÈÁÔ[ç^¦ÁœÁçæţç^Áæ) å Áşæţç^Áãæ] * • Á,ãœÁœ Á@ •^Á&[ç^¦ æ) åÁ^&`Á ác@Á dā] * Á; [çãa^àĚÁAsm-c-0058)

SOLENOID BRAKE VALVE

TEMPERATURE GAUGE MOUNTING QUÚVQUÞOCED

CONTINUOUS DUTY SOLENOID SWITCH

Ù^&`¦^Áæ•Á@@__}Á§iÁs@AÚæboAÚ^&cāj}Á,ão@Á;¦[çãå^åÁHD)+Á¢ÁF+Á&æaj•&¦^_•ÉAj&_æ@_¦•ÉæajåÁ@¢Á,`oÈ Ü[čơÁ, ã^•Á;/Áa);åÁ¦[{Ás@;/ÁÔ[}cājč[č•ÁÔčćÂÙ[|^}[ãåÂÙ, ãa&@Áae;Á;@[;}Áa>|[;È CHÈDÁUÜCEÐÕÒÁF€ÁÕCHĚĂ, ã^ Á⊹[{ ấ ∞a∲ÁCCEDÁ; ÁÉFGX Ásæec^¦^ Á≚ •ãa |^ Áã] \ È Ó ĐẦU Ò ỜÁFI ÁÕ O ĐẾĄ đ $^{A_{i}}$ { \dot{A} \dot{A}_{i} { \dot{A} \dot{A}_{i} } \dot{A} \dot{A}_{i} \dot{A} \dot{A}_{i} \dot{A}_{i ÖÈDÁÜÒÖÁF€ÁÕOEÉÁ, ã^Á¦[{Ác^¦{ã; æ∲ÁCÖDÁ; Á, ã&@Ás[¢È] ŎĦĐĂŬŎŎĂFIAÕOĦĔĄĨā^Áŀ[{Áe^\{ãjaajÁÇÖDÁyĨÁe^{{}}]^\æĕ`\^Á*æ`*^ĚAC[]qāj}æqDĚ(ASM-NH-0032) +12 VOLT < RED 14 GA. PLUG BATTERY BLACK 14 GA. RED 14 GA. OPTIONAL GROUND TEMPERATURE GAUGE BC SOLENOID D A SWITCH 10 GA, FUSE 30 AMP FUSE 30 AMP RED 10 GA. > SWITCH BOX

SWIVEL BRACKET MOUNTING

Q,•cæļlÁœļlÁ,^,Á,ãç^|•Áæ)åÁãccā;*•Á[}Á©@Á,ã}*Á&^|ājå^¦Á,ãc@Á,ãç^|Á[]^}ā;*•Áæ&ā;*Á^æ&@ [c@:\bĂk?āācā;*•Á,ā]k4;æ^Á\$jk6`]^Áæ)å&åã^&cā;}Áå^]^}åā;*Á[`¦Áæ]]|ā&ææā;}LÁ^~^¦Át[Áv@ÁÚæ:c• Ù^&cā;}Á{['\Á\$,['¦Á\$,['¦Á\$,cæā]+È

Q• cæl¦Áa^æljå * • Ábj Áo@ Át ænji -¦æt ^ Ábej &@ l¦Át ¦Áo@ Ás jð * Á& ljð å^¦ÈÁ/@ā Át æĉ Á@æç^ Ábel^æná`Aba^^} å[}^Át ¦Á[`È

Q•cæ|Ác@Á, ā, *Á&`|ā, å^¦Áa^ç, ^^}Ác@Áa[[{ {Á, [`}}cā, *Áa¦æ&\^ó&(`|ā), å^¦Áa), &Q|¦Áa), åÁc@Áa[[{

• , āç^ |Á, ão Đáo C Á; ā, • ĚÁQ, • ^ ¦ cÁ[||Á; ā, • Ác@[* * Đáo C Á;] Ási, å Ác@ Ási[cc; { Áqi |^ Ási, Ác@ Á; ā, • È Chrcase O 4Q, • ^ • Á'; { Ác@ Ási} } cl [|Á; asic ^ Ási Ác@ Á; ā, * Ásî |ā, å^ ¦ĚÁ(ASM-C-0015)

MAIN BOOM INSTALLATION

 $\begin{array}{c} \bullet^{(1)} \Psi = \left[\hat{A} & & \hat{A} & \hat{A} & \hat{A} & \hat{A} & \hat{A} & \hat{A}$

۵^{[بَعَةَ•] [À•¦@& فِحُمُا^هُ إِلَى اللَّهُ فَعَنَا اللَّهُ عَلَيْهُ عَلَى اللَّهُ الْعَمَى الْمُعَا الإِلَامَةِ إِلَى اللَّهُ اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى ا

 $C @ \dot{A}_{1} \bullet \dot{A}_{1} \tilde{a} @ \dot{A}_{2} \bullet \dot{A}_{1} \bullet \dot{A}_{2} \bullet$

 $Q \bullet czeł / \acute{A} @ \dot{A} | 260 / \acute{A} | 260$

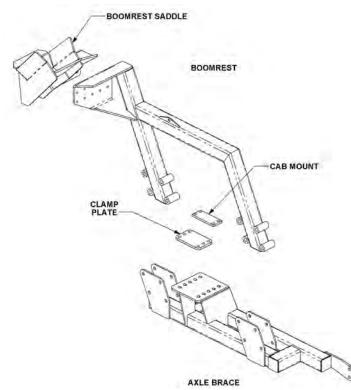
Q• cæ|Ás@ Áãcāj * • Ásēj å ÁQ • ^ • Átj Ás@ Á, æāj Ási[[{ Ásî |āj å^¦Áj^¦ÁUæbor ÁU^ &cāj}}È

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

DECK ATTACHMENT

SINGLE COLUMN BOOMREST

 $\hat{O}_{ab} \sim \|\hat{A}_{ab} - \hat{A}_{ab} - \hat{$



FINAL PREPARATION FOR OPERATION

\[\Deltawshimedowshim

Á WARNING ÓÒ⁄2UÜÒÁ cæicā) * Á(¦Á,]^¦æā) * Ás@ Áslæ&d[¦Á[`Á(`•ơÁ^æiáka) åÁ}å^¦•œ) àÁs@Á Ùæ^ĉ Áse) åÁJ]^¦æā) } ÁJ^&cā) } • Á(-Ás@iá Á, æ) *æiÁ&[{]|^ơ\|`È

QÁ cár Áī Áī `} å ÉÁ [` Áī `• oÁ @ oÁsi [] } Áo@ Ástæstqi ¦æst) å Á^ c Áo@ Ástæv (Áī } Áo@ Á' ¦[` } å ÉÁÁÓ^ -{ | ^ æcc^{] cā) * Áti Áãc Áo@ Á|^æst ÉÁ [` Ái `• cÁæstc`æc^ Áo@ Ájã cárçætç^ Á@est å |^• Ár ^ ç^ ¦ætÁsāt ^• Áti Á' \]å ç^ Áæt •• ^ ¦ Ási Áso@ Ájā ^• È

Before operating the mowerÉx@ Á& cc\ delta de

MOWER TESTING

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)

OPERATION SECTION

U]^¦æaāj} ÅÛ^&cāj} ÅHËF

TIGER BOOM MOWER OPERATING INSTRUCTIONS

QÁārÁc@A[]^¦æq[¦qA'^•][}+äa ājāč Á{[Áà^Á}}[, |^å*^æa)|^Á[-Áæ||Á][c^}aādµÁ[]^¦æzā]*Á@ze ælå•Áæ) åA{[Ácæ\^Á/ç^¦^ |^æe[}æà|^Á]|^&æč qī]}Á{[Á^}•`|^Á[}^•^|-É2[c@|+É2æ); qī æt•É2æ); a[at+É2æ); åAj|[]^¦č Áæ/Á}[c4a;b`|^åA[¦Áaæ] æt^åAà^Ác@ à[[{ Á`}ãtÉ2d æ&d[¦A[¦ÁæAû@[, }A[àb*&dE2KÖ[Á,[c4]]^¦æc^Ác@Aà[[{ Áæ); åAæææ&@åA@æå/ÃaAa^•cæ); å^\+É2]; æ•^\+à^Ê]^orÁ[¦Áqā;^•q[&\Áæ]^Á; ac@a;ÁH€€Á^^qf, Ác@Á}ãtÈ

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. $Q^{A'}[\dot{A}_{a} [\dot{A}_{a} [\dot{A}_{a} [\dot{A}_{a}] * \dot{A}_{a} * \dot{A}_$

 $\begin{array}{c} \underline{UOCEDEAMDOUUVCEDOEAD} & \underline{AAUSSUY} & \underline{ACOAF} & \underline{ACOAF}$



A PELIGRO

 $\begin{array}{c} U \widehat{a}_{h} \left[A^{\wedge} A \widehat{a}_{h} * |^{\bullet} E \right]_{h} \widehat{a}_{h} \widehat$



U]^¦æaāį}ÂÛ^&cāį}ÁHËG

©2013 Alamo Group Inc.

Ó[[{

1.OPERATOR REQUIREMENTS

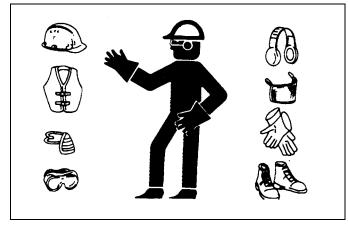
Ùæ∿Á[]^¦ææā[}Á[Áx@eÁ}ãvánarÁk@Á [^^][}•ãaājāčÁ[-ÁæáX * æjāāðaá[]^¦ææ[¦ÈÁOEÁX * æjāāðaáA[]^¦ææ[¦Á@eeÁ'^æåÁæ)å *}å^\•æa)å•Ác@Áā[]|^{ ^}oÁæ)åÁctæ&q[¦ÁU]^¦ææ[uqÁTæ) * ætþÁæ)åÁãrÁ^¢]^¦ā?}&^åÁājÁā[]|^{ ^}oÁæ)åÁctæ&q[¦ []^¦ææā]}Áæ)åÁæ[hæ•e[&ãææ^âÁ+æ^cÂ]¦æ&cã&^ÈÁQ Áæååãāā]}Át[Ác@Á+æ^cÂ{ ^••æ*^•Á&[}ææā]^åÁājÁc@áA(æ)*æ *æ^cÂ+ā3}•Áæ^Ác∞á¢^åÁt[Áx@ Áā[]|^{ ^}oÁæ)åÁctæ&q[¦ĚÁQÁæá)^Á]æoÁ[-Ác@Á[]^¦ææā]}Áæ}àÁ=æ^Á •^Á[Áx@á ^* ã]{ ^}oÁæ{A[]/c&[]|^c^|^Á}å^\+o£[[åÊ&]]•*[oÁæ]Áæčc@¦ã^ååÅaæ^\Á[{]ká&A[]]|^c^Á¢]]æ}æaā]È

ĢÁc@Ą[]^¦æa[¦Á&æa}}[ơÁ^æåÁx@Ą[æa) 迆eÁ[¦Ác@{•^|ç^•Ą[¦Ás[^•Ą.[ơ&s[{]|^c^|^Á}}å^¦•æa) åÁc@Ą[]^¦æaā[}Ą[Ás@ ^`čā]{^}dĒÁnāvÁa:Ác@Á^•][}•āaājāčĄ[-Ác@Á*`]^¦çãr[¦Áq[Á'^æåÁæa) åÁ^¢]|æājÁc@Á(æa) 迆eÊ*eæ^cÁ]¦æ&scã&^•Ê&a) å []^¦æaā]*Á§j•dč&scā[}•Át[Ác@Ą[]^¦æat[¦È

Ùæ^Á;]^¦æaā;}Á;~Á``ā;{^}ơA^``ā;^+ÁœæÁ@A;]^¦æaā;\Á;Aæ{¦Á;^aæáAæ};]¦[ç^åÁÚ^¦•[}æ4ÁÚ¦[ơ&aã;^ÁÒ``ā;{^}óQÚÚÒE -{¦ÁœÁ4;àÁ&[}åãaā;}•Á,@}Áœææ&@3;*É4;]^¦æaā;*É4;^¦çã&3;*É4æ}åÁ^]æā3;*ÁœÁ``ă;{^}dœÁ``ă;{^}dæÁÚÚÒÁsiÁs^•ã;}^åÁ{]¦[çãå^Á;]^¦æa[¦Á;|[ơ&aã;}Áæ3;åÅ3;&]`å^•Ás@Á{||[,ğ*Áæ^ĉÁ;^ækK

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- ″ 0Ę, æ̂∙Á⁄^æÂĴæ^ĉ ÃÕ|æ•^•
- ″ PælåÁPæc
- ″ Ùơ^^|Á[^ÂÛæ^ĉÂ∅[[ç,^æ
- ″ Õ∥ ç^•
- ″ P^æiậ,*ÁÚ¦[c^&cąí}
- ″ Ô|[•^ÁØãcã]*ÁÔ|[cœ];*
- "Ü[^]•] ālæe[¦Á₁ ¦Á2ä]ac ¦ÁT æ \Á2à^] ^} å•Á₁ } Á
 [] ^ ¦æeā] * ÁS[} å ãeā] DÁ(OPS-U-0002)



A DANG ER



$$\begin{split} & \mathsf{POXOUA}^{\bullet} \circ \mathsf{A} \&^{+} & \mathsf{A}_{i} | \mathsf{A} a \neq \&^{0}_{i} @^{i} | \mathsf{A} i_{i} & \mathsf{A}_{i} | \mathsf{A}_{i} & \mathsf{A}_{i} & \mathsf{A}_{i} | \mathsf{A}_{i} & \mathsf{$$

2.TRACTOR REQUIREMENTS

Tractor Requirements and Capabilities

- ´ OÈÙOEÒÁæ]]¦[ç^åÁÜ[||ËJç^¦ÁÚ¦[ơ^&cãç^ÁÙd`&c`¦^ÁÇÜUÚÙDÁ[¦ÁÜUÚÙÁ&æàÁæ)åÁ^^æaÁa^|cÈ
- À وَسَعْفُهُ * À \ أَنْ مُعْمَا مُعَانَ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ المُعَانَ اللَّهُ اللَّ
- $[]^{+} = \left[\frac{1}{2} + \frac{$
- V¦æ&q[¦ÁÛæ^cÂÖ^ça&^•Á∰∰∰∰∰∰∭∭∭∭∭∭∭∭∭∭
- ´ V¦æ&q[‡]¦ÁÓæ∦æ óÁ⊞∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰∰Å*``å^åÅ{{Á;æijdæijdæ∯Áæ¢A^æ`óÆİ €€A¦à•ÈA;}A^^æA^æAkā^

2.1 ROPS and Seat Belt

V@Átæstd[¦Át´`•oÁs^Ár``ā]]^åÁjãro£bedÜ[||ËUç^¦ËÚ¦[c^&cãç^ĚÙd`&c`¦^ÁÇÜUÚÙDÁQtæstd[¦Á&æaàAt[¦Á[||ËaæbDáeajåA*Aæ à^|cÁt[Á]¦[c^&cÁc@At]]^¦æt[¦Á+[{Áæ|a]*Át~Ác@Átæstd[¦ÉA+]^&ãæeq|^Ás`¦ā]*Áæah[||Átç^¦Áj@\!^Ác@Ástã¢^¦Á&[č|åÁs^ &L`•@åÁæajåÁā]^åÈÁU}|^ Át]]^¦æt^Ác@Átæstd[¦Ájãro£ko@ÁUUÚÙÁsjÁc@Áaæi^åÁ][•ãīāt]}ÁæajåÁ*Aæeka^|cÁæec}}^åÈ V¦æstd[¦Át[å^|+Á][cÁ*`čā]]^åÁjãro£keuUÚÙÁæajåÁ*Aæeka^|cÁt@t`|åÁ@eeç^Ás@+>Áfã^Átæeçāj*Á^æt`|^+Ásj+cæe|^åÁsi^Ásaj æčc@¦ã^åÅs^ær^¦ÈÁOPS-U-0003

AWARNING

U]^¦æe^Ac@arAO``āj{^}@{}^A;}A; [ç^\H];[c^&c@arAO``āj{^}A; [ç^\H];[c%&c@arAO``A; [ç^\H];[c%&c@arAO'*O'{ACUUÚUDĂACH; zê •A; ^æAA`^æA`à^|or ÈAAÙ^;aj`*Aajb`;^A[; ^ç^}&a^ae@&a[`|åA^•`|o4;[{ Áæ|j}*A; ~á@A:aeso[;HH];æca&`|æ|^&a`;ij* Áæ&c`;}[ç^; _@}Ac@A;]^!æe[;A&[`|åAa^A;ij}^åA`;A;a}`





2.2 Operator Thrown Object Protection

V@Ádæ&q[¦Á{ `•oÁà^Á^``ā]]^åÁ,ão@h;¦ [c^&cāç^ ^``ā]{ ^}oÁq[Á@h|åÁs@Á[]^¦æq[¦Á¦[{ Áæ|jā * Áæ]å c@[, }A[àb%o ÈÁQ[¦Á&æàÁtæ&q[¦A[č *•c à^Ár``ā]]^åÅ,ão@hæjA[]^¦æq[¦Áæ^c Á &i^^}A] iā @Á*ãa^A[¦Á@A ã @A*ãa^A ā]a[, •A[`*oAa^Áāc*å ,ão@hkwá @æc*¦Á^•ã æa)o4 æ^c Á,ā]å[, ÈÁQ[¦A][}Ë &æàÁtæ&q['*Êo@Atæ&q[¦A[`*oAa^Ár``ā]]^åÅ,ão@hæ ÜUÚÚÁæ}åÅ[]^¦æq[¦Å] ¦[c*&cāç^Á*æ^c Á&æ*^Ácœ]![çãa^*A]![c*&cāţ}Åq[ác@A ã @Aæ]åAæa][ç^Ác@ []^¦æq[¦Á*^æEÁYÖUÁ*UVÁ*{ [ç^Ác@AÜUÚÚÁ+[{ }]] ÉBæàÁtæ&q[!*Á[Áč ă] ÁæA æ^c Á&æ* ^ÉÁ

OPS-B- 0001



▲ DANGER ▷^ç^¦Ą[]^¦æɛ^Ac@AV¦æ&q[¦Aæ}åAT[, ^¦AW}ãA,ãc@[`o^Aæ}AUUUAQU]^!æq[!• Ú![c^&cãç^ÁÙd`&c`¦^D¼[¦ÁÔæàÁq[Á,!^ç^}o^Aġbŏ¦^Á+[{ Á[àb^&c•Ác@[, }Á+[{ *![`}åÁ,!Á+[{ Á;ç^!@œåÁd;ã; { ā]*ĚÙq[]Á;[, ā]*ÁãÁ,[!\^!•Á;lÁ;æ•^!•à^ æ^Á,ãc@3,Á+E€Á^^dĚ;⊎or≞□



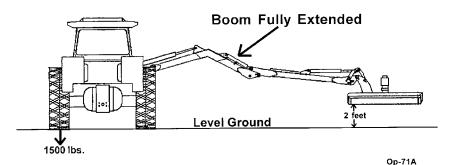
2.3 Tractor Lighting and SMV Emblem

 $\begin{array}{l} & (A) = (A$

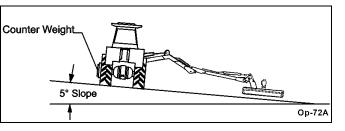
OPS-B- 0017А́



2.4 Tractor Ballast



QÁc@ Á`} ãiÁā Ą́[] ^¦æe^åĄ́[} ^¢|[] ^•A' ¦^æe^¦Ác@e) Á' °Ê æååãāāį}æţÁ &[`}c'¦^â @A´,āļÁ à^Á^`ā^åÈ U] ^¦æaāi}Â([-Á@^A`}ãA[]Å •[[] ^•A' ¦^æe^¦Ác@e) ÁFF]^¦&^}cÁÇ È Áå^* ¦^•DÁā Å] [cÁ'^&[{ ^} å^åA` }å^¦ æ) ^Á&ā&`{ •cæ} &^•EÁU} Áækiæ&q[¦Å ão@keÁiî +Ą` o ãa^ q[Ą́` o ãâ^Áāā^A;] ¦^æåÊæa ÁFFĄ]^¦&^}cÁÇ È Áå^* ¦^•D •[[]^Ą[&&` !• @}]Â[}^Á/æáA` æáCiæ&q[¦Áā^Áā Áœa][`c + [__^|Å@e) Á@A(c@¦Á^æáAáā^EÁOPS-B-0018



3.GETTING ON AND OFF THE TRACTOR

Ó^-{¦^Á*^ccā}*Á;}q[Ác@-Át]æ&q[¦Éb@-Á;]^¦æq[¦Á; `•OÁ^æåÁæ}åÁ&[{]|^c^|^Á}å^¦•cæ}åÁc@-Áã;]|^{{ ^}ofæ}åÁc@-Áã;]|^{{ ^}ofæ}åÁt]æ&q[¦ []^!æq[¦Á;æ}`æ†ÞĚÁQÁæ)^Ájæoá(,-Á*ão@!Á;æ)`æ‡ÁãrÁ;[of&[{]|^c^|^Á}å^\+o[[åÉ&[}•`|oÁæ)Áæčo@[¦ã^åÁå^æ†^¦Á[¦ æ4&[{]|^c^Á*¢]|æ}æaã;}ÈÉAOPS-U-0007

O[A][O4][O4][`}O4[Ååã*{[`}O4;@A/¦æ&q[¦A];@A;Ac@A;læ&q[¦Aā;A[[çā]*E4T[`}c @@ÁV¦æ&q[¦Á[]^Â;@}Ác@ÁV¦æ&q[¦Áæ)åÁæ|Á{[çā]*Á]æboÁæ^Á&[{]|^c^\^ •q[]]^åÉ¢نö⊯co



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3.1 Boarding the Tractor

W•^Abi[c@A@abjå•ÁabjåA[×] čaj]^åA@abj妿abjåA^{*}cc]•Á[¦Á[×]]][¦Aý]@}Abi[æbåajj*Áx@Atjæ&d[¦ÈAbp^ç^¦A´•^A&[}d[| |^ç^!•Á[¦Á*`]][¦Aý]@}A([ĭ`}caj)*Áx@Atjæ&d[¦ÈAÛ/>æaA[``!•^|-ÁbjÁx@A[]^¦æa[¦qrÁ*^æaAabjåA*^&`¦^Áx@A*/ææAbi^|c æb[ĭ`}åÁ[ĭ`È

Þ^ç^¦Áæψ|[, Á]æ••^}*^¦•Áq[Á'ãå^Á[}Ác@Ádæ&q[¦Á[¦Áæææ&@åÁ^``ā]{ { ^}dĚÁÜãå^¦•Á&æjá^Áæ•aĵ^Áæ‡|Á[~Áæ)åÁà^ •^¦ā[`•|^Áşib`¦^åÁ[¦Áā]|^åÁ¦[{ Áæψ]ā]*Á[~Áæ)åÁa^ā]*Áæ)Á[ç^¦ÈÁQÁseÁœA[]^¦æe[¦q+Á^•][}•ãaājãĉÁa[Á[¦àãaÁæψ|Á*¢dæ ¦ãa^¦•Á∞aÁæ]Áaā[^•ÈÁOPS-U-0008

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Þ^ç^¦&aa‡|[, &&@apäl^}A[;k[k]co@;k];^!•[}•As[A&apa^k]}As@Ak1æ&d[;k];kQ]|^{ ^}CE Øæ‡|a]*Á[~~Á&æa}Á^•č|o4a;Á^\ā[č•Áa;b];^Á[;Áa^æa@e#Ásuö≞eo

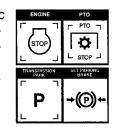
 Ö[A][o4][i]}o4[i]
 Aia a fill (i)
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3.2 Dismounting the Tractor

Ó^-[¦^Áåã{[`}d]*Áv@Átaszd[¦Ébál|^Áv@Átaszd[¦Á*]*ā]^Áå[,]}Ébáã*^}*æ*^Áv@Á@æåÁæjåÅ^daszdi[{{Áz} c@Átæ]•][¦dÝ][•ãá]}ÈÁÝÚæ\Áv@Átæszd[¦Á']}Áæá/^ç^|Á*`¦-æsz^ÉÝ]|æsz^Áv@Átæ)•{ã•ã]}Á§JÁ}*`ta‡ÁæjåÅ*^dv]æ\ā]*Áziæ*^ÉÁU@dá"[]}Áv@Átæszd[¦Á']*ā]^ÉÅz{[ç^Áv@Á^ÊbæjåÅ}æszd[¦ÁæjÁ'[d]}Át[Asz[{^At[AseKs[{]|~c* •d[]Ábá^-[¦^Ár¢áa3]*Áv@Á,]^¦æt[4]A*ætÉÁÞÒXÒÜÁ/æç^Áx@Á*^æzÁ}dājÁx@Átæszd[¦ÉbárAz]*ā]^ÉbæjåÅ[[, ^¦Á@æå {[ç^{ }}déœez^Ás[{ ^Át[Ász4s[{]|~c*Áz]]È

W•^Á@e)åÁæa‡•Áæ)åÁv¢dæÁv¢]•Á,@}Áv¢ãã)*ÁœAdæ&q[¦ĚÁÓ^Á&æa^~`|Á,-Á[`¦Áv¢]Áæ)åÁ •^Áv¢dæÁ&eĕqā;}Á,@} {`åÊÁã&^ÉÁ}[_Éée)åÁ;c@¦Á;ææc°¦Á@æeÁæ&&č{`|æe^åÁ;}Áx@/Ávc^]•Áæ)åÁ@e)妿a‡•ĚÁÞ^ç^¦Áč•@á;¦Áö{]Á;~Áv@ dæ&q[¦ĚÁOPS-B-0002





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4.STARTING THE TRACTOR

V@?Á[]^¦æq[¦Á(`•oÁ@eqc^ÁæxÁ&[{]|^cvÁ`}å^\+oæa)åā]*Á[Áo@A]|æ&?{^}dÊA~}&aā]}ÊÁæa)åÁ[]^¦æqā]}æÁ`•^Á[Áæ4| dæ&d[¦Á&[}d[|•Áà^-{|'^Årœdrā]*Ár@?Ádæ&d[¦ÈÁÜ/çã}, Ár@?Ádæ&d[¦Á[]^¦æq[¦qrÁ(æa)`æ4Áæa)åÁ&[}•`|oÁæa)Aeĕc@[¦ã^å å^æ4^¦Á{¦Ádæ&d[¦Á[]^¦æqā]}Á\$4,•d`&aā]}•ÁãA,^^å^åÈ

Ò••^} cãæ‡Á/¦æ&q[¦ÁÔ[}d[|•K

- ´Š[&æe^Ás@∘Ást}ãaāį}Á^^Đ,ãa&@Á
- ‴Š[&æec^Áo@°Á^}*ð]^ÁA@ó4,[}d[|
- ´ŠĮ\$&æe^Áx@°Á@ĺå¦ĺæĕ|a&Á&[}d[|Ắ́́A,ç^¦ీÁ
- ´ Š[&æe^Ác@Áã @Á&[}d[|Á́^ç^¦
- ´Š[&æe∿Ás@^Ás¦æè^Áj^忆•Ása)åÁ&|ĭc&@Á
- ″Š[8ææ∿Ác@AŰVUÁ&[}d[|Á
- ´Š[&æe^Áo@Áa[[{´Á,]^¦æeā;*Á&[}d[|́•Á0,2)^•cā&∖Á,¦Áçæqç^Áa;æ}∖D

Ó^{{ |^Â^ cæ cā} * Ác@ Át æ c[|Â`} • ` |^Ác@ Át ||[¸ ā * ká

- ´Ô[}å`&oÁse||Á, !^Ë-cæioÁ,]^¦æaā[}Á5j•]^&cā[}Áse)åÁ<^¦ç3&^Áse&&{[¦åā]*Á5[Ás@/Ástæ&c[¦Á,]^¦æa[¦q+Á, æ)`æ|ÈÁ
- ´ Tæ\^Á`¦^Áæ|Á`æ\å•ÊA@?\|å•Ê&; å\; @?\|å•Ê&; å\; @?\Áæ^ĉÁ&^ç&?^A^&`¦^|^Á; Á|; æ&^È
- ″ V@∿Ájæd∖āj*Ási¦æd∘ÁsarÁj}ÈÄ
- ´ V@^Ádæ&d(¦Ádæ)∙{ã•ã[}Á^ç^¦∙Áæ^Á§jÁjæ\Áj¦Á,^čdæ)ÈÁ
- ´ V@^Áa[[{̈́́́Ąi]^ˈlæaā]*Á&[́}d[ĺ●Áad^Á5JÁo@Á,^`dæaÁad)åÁ,⊶Á,[●ãaā[}È
- Ź V@^ÁŰVÜÁ&[}d[|Á∱ç^¦Áãáåâ^}*æť^åÈ
- ´ V@^Á@! 妿ĕ |ã&Á^{`[c^Á&[}d[|Á^ç^\+•Áæ4^Áa), Áx@∘Á,^čdæ4Á,[•ãaā[}ÈĂ

Ü^~\A[Á@Adæ&q[|Á[,]}^\qA(æ)`æAA[|Átæ&q[|Átæ&q[|Áræed@]*Á]|[&^å`|^•ÈÁU}|^Á\œedoó@Atæ&q[|Á]@4^Ar^æe^åAe)å à^|c^åA9jAx@Atæ&q[|Á[]^|æq[|qAt^æEŹAp^ç^|Áà^]æ•Ax@A#]}ãa[}Atjãa&@à^Ar@[|oA&ä&`ãa]*Ax@Aræeo*|Ar[|^}[ãaÈ CEe^\Ax@Atæ&q[|ÁY]*3]^A#rÁ`}}3]*ÉAeq[[ãaAæ&&ãa^}œ4As&a æ)åA`}^c]^&c^åAtæ&q[|Á[[ç^{ ^}c^{ }]

▲ DANGER Þ^ç^¦Al`}Ac@AV¦æ&q[¦A^}*āj^AājAæA&][•^åAà`ājåāj*A[¦A_ão@`oAæå^``æe^Aç^}cājææāj}EAA/@ ^¢@eĕ•oÁ`{^•Á&æjÁå^Á@ee æ¦å[`•Á([Á[č¦Á@æjc@ěÁçuöi⊞o

À DANGER UcæłoÁd ﷺ [\^ Å] \[] ^\| ^ Å @ } À] \[] ^\| ^ Å * ^ æz ° å Åj Å@ ^ Å/ ا حقط [Å * ^ æz Å Å) æd ĝ * Åæ d ﷺ [Å ħ ^ æłÁæġ Á ^ • ` | Áħ Å ₺ ` | Áħ Å ₺ ` ` / Å Å Å æz ÆÅÛ ^ æå Á @ Á/ ا حقط [Å] ^ ! æz [ا • { عَبْ ` عَبْلَا لَا لَا ا ا ا ا أ Å cæb cā ; * Åj • d` & cā] • ĎÁψö ≞ но



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5.CONNECTING ATTACHING HEADS TO THE BOOM

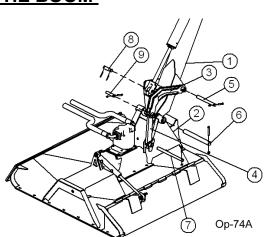
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GĐĂÁ/@}}Áæccæ&@Ác@Aå[*|^*ÇDÁq[Ác@A{{[, ^¦ÇĐÁ(•ā]*Á]ā],ÇD æ)åÁ@æåa,æ^È

HĚÁVI•^Á∞ÁÝQĮãoÁţÍÁŢ, ^¦Áv@Áà[[{ QFDÅå[, }ÁţÍÁv@Áţ[, ^¦QEDÈ Q•^¦Óv@Á]]^¦ÁjājQîDÁv@[`*@Áv@Á*}åÁţ,Áv@Áà[[{ Áæ)åÁv@ { [, ^¦ÈXDEccea&@Á,ão@Áv@æåå,æ4^È

IĚA/@}Áæ¢ä*}Ác@Áå[*|^*ÇDÁæ)åÁc@Ájãç[cÁa¦æ&\^cÇ+DĚ/Otcæ&@ jãc@jájÇIDÁæ)åÁ@æå,æ^È

Í ÉÁZABjæa¦^Á(;æà^Á*`¦^ÁæakjÁa[|œÉAj`œÉææb)åÁjaBj•Áæb^Áæã@e^}^åÁ[¦^&[{ { ^}å^åÁa[;'``^ÉOPS-B-0004_D



 Ctropic fata A&[} cae&cA, ac@A@p cA+`¦-ae&A+A fata &|```````AAa + [AAcaa} \ • EA]``{]•EA{[[d]+EAcaa}cA+Aada a @p • ^ A&[}} ^ & & cata contained and a contained and contained and contained and a contained and a contained and a



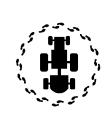
6.PRE-OPERATION INSPECTION AND SERVICE

Ó^-{ |^Á^æ&@^ •^Êźæź ||^Ë;]^|æaāti} Áði •]^&aāti} Áde) å Á*^|çā&^Áti_-Ás@ Áði,]|^{{ ^} ofæ) å Ádæ&d; |Á{ `•ofæ^Ati}_Ai]^|-{ |{ ^åÈ V@ār Áði &l`å^•Á[`cā]^Á; æði c^}æ) & A Áæ) å Á*&@ å`|^å Á'`à lā&æaāti} Êði •]^&cā]* Ás@æs/æd|Á*æ^c`Á&^çã&^•Áæ^Á*`čj]^å æ) å Á`}&aði å A*•Á[`cā]^Áti_æði c^}æ) & A Áæ) å Á*&@ å`|^å Á'`à lā&æaāti} Êði •]^&cā]* Ás@æs/æd|Á*æ^c`Á&^çã&^•Áæ^Á*`čj]^å æ) å Á`}&aði à A*•Á[`aði A*A*, aæi c^}æ) å Á*A*@ å A*A*] æði •ÈÁÖU ÁÞUVÁ[]^\æs?Ác@ Á``aði Ás@æs/æd|Á*æ^c`Á&^çã&^•Áæ^Á*`čj]^å æ) å Á`}&aði Â'A'^!{ '} & aði A' A*A*A*A'A'] æði •ÈÁÖU ÁÞUVÁ[]^\æsti A*A*A'A'] æði •Áæ} å Á'A'] æði •Áæ |^&ae Áæ Á[[] Åæ Á[cā&^àÈÁÓ^Â, A'+& &^A[]^\æsti }ÈÁÚ^\-{{ '}{ A^*}}] æðo Áæ Á[[] Åæ Á[cā&^àÈÁÓ^Â, A'+{ *&^A}[]^\æsti }ÈÁÚ^\-{{ '}{ A^*}}] æðo Áæ Á[[] Åæ Á[cā&^àÈÁÓ^Â, A'+{ *&^A}[]^\æsti }ÈÁÚ^\-{{ '}{ A^*}}] æðo Áæ Á[[] Åæ Á[cā&^àÈÁÓ^Â, A'+{ *&^A}[]^\æsti }ÈÁÚ^\-{{ '}{ A^*}} @ åÁ^]æði Å{(•o&æ) Áb^Aæç[ãb^A&E, -{A*}}

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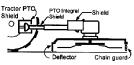
LO^¦ąį å å&æad¦^A j •] ^&oA æd¦A([çā) * A] ædo A-{¦A, ^ædAæ) åA¦^] |æ&A, @} A&•• æd^Á ão@ésě coQ ¦ã ^åA(^¦çã&^Á) ædo ÈÁŠ[[\Á{¦Á[[•^Áæe c}}^!÷Ê4]] [¦Áà![\^}Á] ædo ÉÆæ) åÁ/^æà ^Á[¦Á[[•^Ááæā] * • ĚÁT æà ^Á+`¦^ÁædkÅj äj • Á@æç^ æccæ&@a) * Á@ædå, æd^ÈÁÛ^¦ąį * Áş b`¦^Á(æĉÁ; &&`¦Á+[{ Á;[oÁ(æa) cæaj āj * Ác@æ { æ&@a, ^Áş Á[[åÅ;[¦] a] * Á; lå^¦ÈÁ¢uõer: œ



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à^Á*•^åÁæ) åÁ{ æng æng ^åÁaj Á*[[åÁ [¦\ā)*Á&[}åãnā])ÈÁAOE[|Áæ^ćčÁå^ça&^•Á•@[*|åÁà^ ⁵ ā)•]^&c*åÁ&æ^~`||^ÁæoÁ^æ•Óåæaā] Á{[¦Á;ã•ā]*Á¦¦Áa¦[\^}Á&[{][}^}o•ÈÁTā•ā]*É&i[\^}Ê [¦ÁÁ;[¦}Áæ^{•Á;`•Óà^Á^]| æ&^åÁæa∱}&^Á{[Á^å*&^Ác@A][••āâā]ãĉÁ;Á&jö'!^Á¦¦Áa^æœ@ --'[{Áœ@[;}Á;àb*&o•ÉA}œa)*|^{ ^}c£á;¦Áa|æå^Á&[}œ&dEdeor#o



6.1 Tractor Pre-Operation Inspection/Service

Ü^_^!Á[Á@^Átæ&q[!Á]]^!æq[!qrÁ(æ)`æфÁ[Á*}•`!^Áæ &[{]|^c^Á]!^Ë[]^!ææā]}Áāj•]^&cā]}ÁæjåÁ*&@å`|^å •^!çã&^Á ãrÁ]^! -{!{ ^åA æ&&[!åā]*Á q[Áœ {æ}`~æ&c`!^!•Á!^&[{ { ^}åææā]}•ĚÁÁV@`Á-[||[],ā]* æ^A[{ ^A[.~Ás@.Ásc~{ • Ás@ææÁ^``ā^Ašiæaäj^Á^!çã&^Áæ}å ā]•]^&cā]}K

- ″ Vãl^Á&[}åããį}ĐaãiÁ,¦^••`¦^
- ″ Y@^^|Á́`*Áà[İo•Á
- ‴ Ùc^^¦āj*Ájā,∖æ≛^
- ″ ÚVUÁ @a∖¦åÁ
- ‴ ÙT XÁ:ã∄ } Áã∉Á&∥^æ) Áæ) åÁçãa ãà∥^
- ‴ V¦æ&d[¦qnÁðã@orÁæl^Á&l|^æ)áæl)åÁ*}&dā[}æ|
- ‴ V¦æ&d[¦ÁÜ∕æeÁsà∧∣oÆsiÁ§jÁ*[[ắÁ&[}ắããa[}Á
- ✓ V¦æ&q[¦ÁÜUÚÚÁáşÁ§jÁt[[åÁ&[}åãáā]}
- ″ ÜUÚÙÁãiÁ§,Ác@∘Áæãi^åÁj[•ãa∄}
- ‴ Þ[Ádæ&d[¦ÁjājÁ∱æà∙Á
- Űæåãæe[¦Á¦^^/Á¦ Áå^à¦ã Á
- ´´ Ò} * ã} ^ Áj ā Á/^ç^ |Áæ) å Á&[} å ããã[}
- ‴ Ò}*ā}^Á&[[|æ];ơ∮^ç^|Áæ);åÁ&[}åããā[}Á
- ŰĹĹŶŀŔĊ^ŀĄ*ÁŀĭãaÁŕ\ç^|Á
- ∅ ^ |Á&[} åãāā[} Ása) å Á^ç^ |Á
- ‴ Ù ˘~a&a^},oĂ ǎ à ඎaaaa j } Á∞aó ka A` à ^ A [∄ o
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6.2 Boom Unit Pre-Operation Inspection and Service

Q•]^&o/æ)å/•^¦ça&^Ac@Aà[[{ Áæ;{ Áæ)åA@æåAj¦a[¦A([A[]^¦æa])}ÈÉÁÖæ;{ æt^åAæ)åED¦Aà;[\^}Ajæ;orA•Q[`|åAà^ ;^]æa1^åAæ)åED;A']|æ&^åAã[{ ^åãæe*\îÈÉAÁ\/[Á^}•`;^Ác@A`}ãAãrA;Az*A[;A[]^¦æa1]}ÊÉ&[}å`&oAc@A{[||[, 3]*K OPS-B-0020Á

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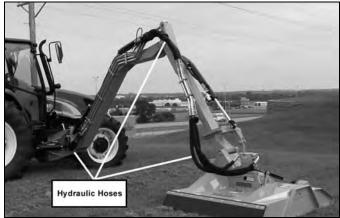
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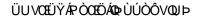
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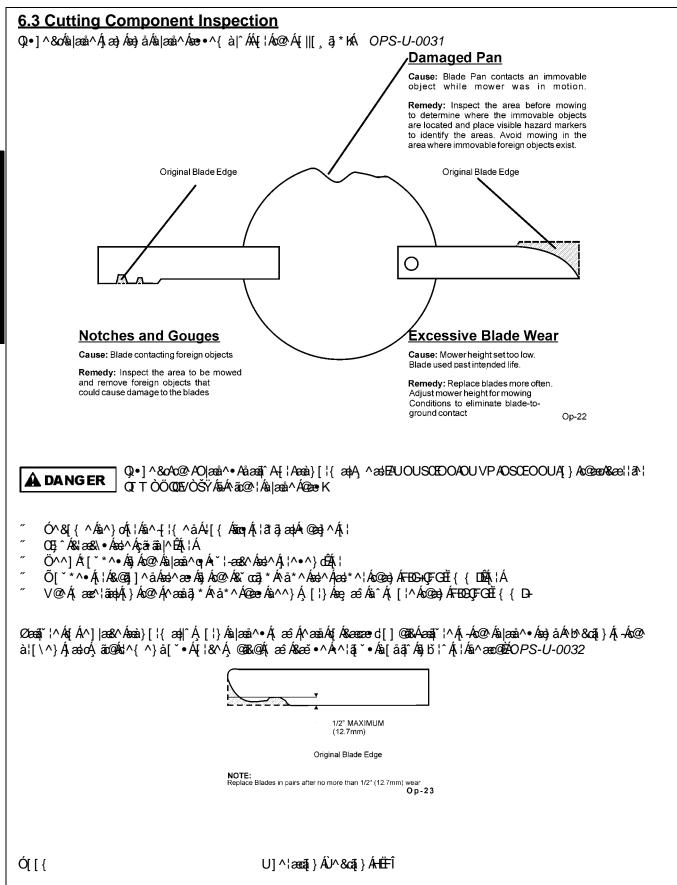
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**OPERATION** 

#### **Tractor PRE-OPERATION Inspection**



Mower ID#\_\_\_\_\_

Make

Date:

Shift

Before conducting the inspection, make sure the tractor engine is off, all rotation AWARNING 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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#### **Boom PRE-OPERATION Inspection**

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Table 1:



Mower ID#\_\_\_\_\_

Make \_\_\_\_\_



Date:

Shift

AWARNING

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

Item	Condition at Start of Shift	Specific Comments if not O.K.
The 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**

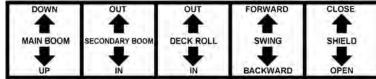
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Cable Controlled Mowers

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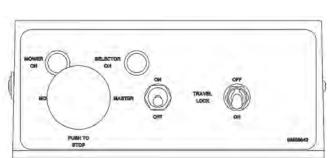


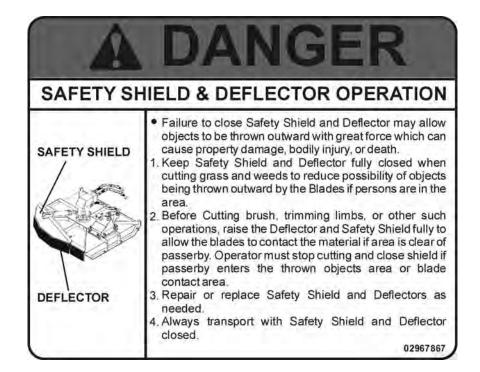


**OPERATION** 

#### 6.4 Switchbox

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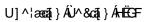
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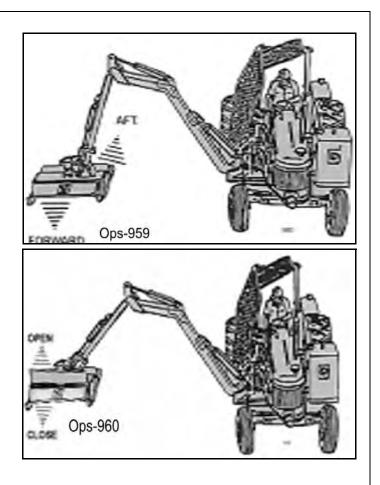


Ops-958

#### ŠÒXÒÜÂN ÁÓUUT ÂÙY Q(ÒŠ

**OPERATION** 

#### ŠÒXÒÜÂÁÍ ÁÓUUT ÁÙP (ÒŠÖ



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#### 7.Joystick Controlled Mowers

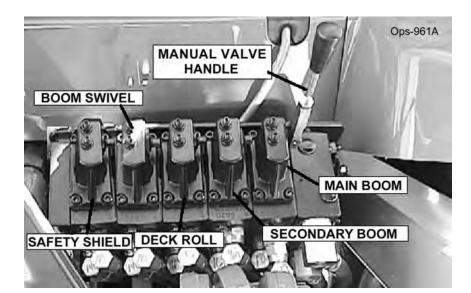
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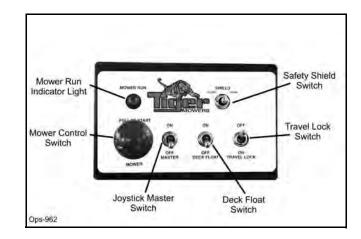
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#### 7.1 Switch Box and Joystick Control

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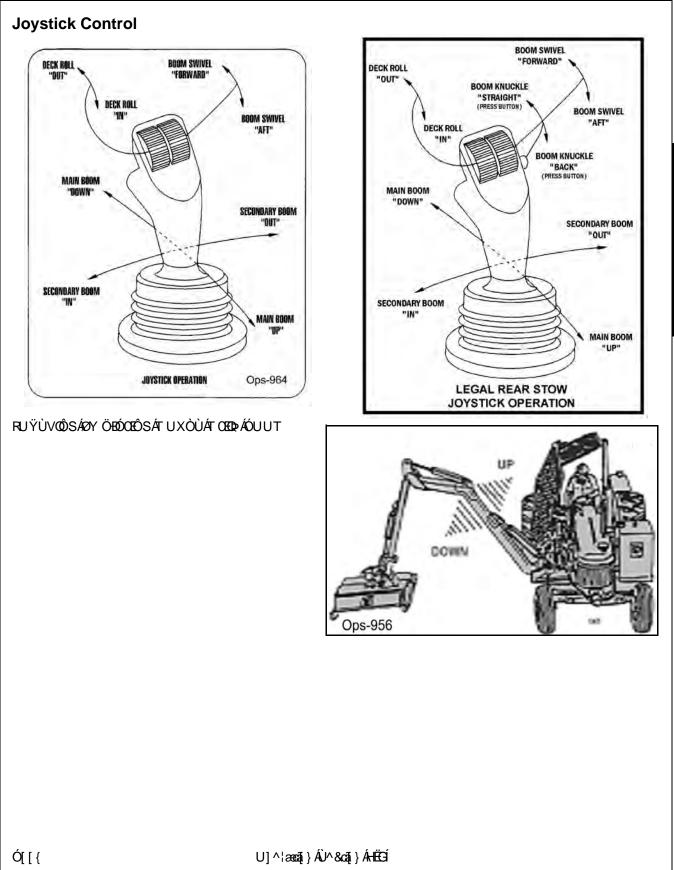
V@ÂÜæ^ĉÂÜ@M\åA, ã&@Ą]^}•Áæ)åÁ&|[•^•ÁœA @M\åA[&æ&\*åĄ]; ÁœÁ+[}A∱ AœA+[]oA, ÁœA& œ\*¦Á@æåÈAY @}A[[çā]\*Áæ [¦Á}^æAœA\*[[`}åÊæ, æ•Áœe, Ác@Á\*@M\åAjÁœA&|[•^åA][•ãā];ÈAY @}A{[[çā]\*Áā]Áà¦`•@4[¦Áā]Ád^^•Áæ][ç^ \*¦[`}åÁ^ç^|ÁœÁ\*@M\åA{æÂà^Á;]^}^åÁ{[¦Á\*æð\*¦Á&`œā]\*ĚÜ^æåÁæ)åÁ{[||[,Ác@Á,æ}]ā]\*•Á;}Ác@Áå^&æ4Á\*@,} à^|[,ÈADo not run the cutter into material larger than 6" diameter.

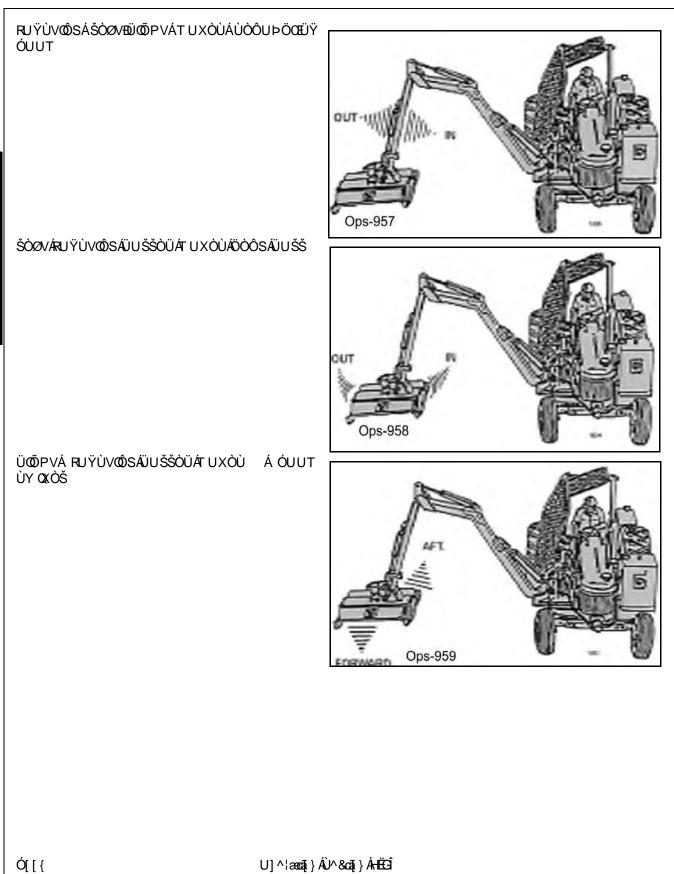


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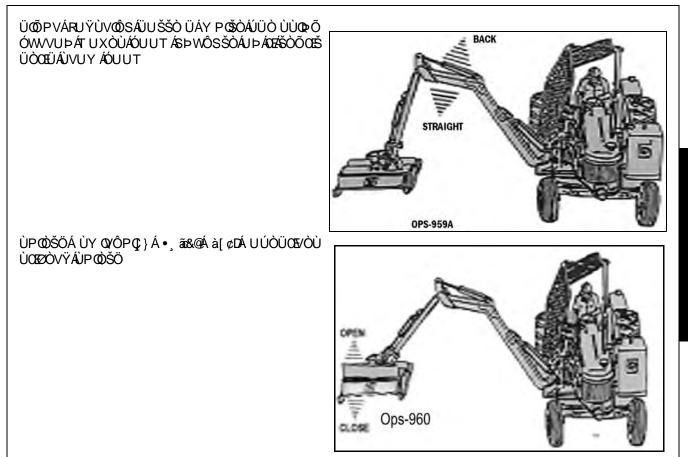
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U]^¦æeāį}ÂÛ^&cāį}ÁHËG





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#### **8.DRIVING THE TRACTOR AND IMPLEMENT**

Ùæ^Átæ&d[¦Átæ)•][¦ơ4^˘ă4•Áœ/Á[]^¦æd[¦Át[Á][••^••ÁœÁo@[¦[˘\*@Á}}[,|^å\*^Á[-Áœ/Á[[å^|ÁavA]\*Á[]^¦ææ\*å æ)åÁ]¦^&æčdą]•Át[Áæah^Á;@aħ^Áa¦ãçā]\*Á;ão@éæ)Áæccæ&@åÁā[]|^{{ ^}dĚO}}•ĭ¦^Ác@Átæ&d[¦Áœæ•Ác@Á&a]æ&ãčÁt[ @a)å|^Ác@Á;^ãt@a∱\_Ác@Áai[[{Áæ}àÁc@Átæ&d[¦Á]]^¦ææ3]\*Á&[}d[|•Áæ^Át^oÁ[¦Áæ^Átæ)•][¦dĚÁA[Á\*}•ĭ¦^Á;æ^ĉ ;@å^Ásilãçā]\*Ác@Átæ&d[¦Á;ão@éxáa[[{ ÉÁ^çã},Ác@Át[|[;ā]\*È

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V•oká@Á``āļ{ ^}okázkázÁ' [[, Á] ^^å/kāj Áč'; ]•ÈÁQ0,&i^æ^Á@A`] ^^å/kā@[`\*@k@Ač'; ]A[; ]^Áæe^; ^[`Áå^c'; {ā]^Ác@æc/k@Á``ā]{ ^}ok&æj Áà^Á[]^; æc\*å/Áæc/Acé@ä@; [A;]^^åÉÁW4^Á\*¢d^{{ ^A&æ4^ æ)åÁ^å`&^A´[`; [A;]^^åA;@}Ać`; ]ā]\*Á\*@æd]]^Á[[A]; /c^}oc@Ádæ&d[; [AæjåÁq1]]^{{ ^}c^}[ č'; ]ā]\*Á[ç^; ÉÉÖ^c'; {ā]^Ác@Á[æçã]`{ Ač; ]}ā]\*Á\*]^^åÁ[['A´[`ÁæjåÁc@áA´``ā]{ ^}oAà^-[;^ []^; ææj\*Á[}A[æå•Á; !Á]^c^}Át; [`}åÈ

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Ó^Áse; జీ^Át, Áo@ Át] ^ ¦æeā) \* Á&[} åãeā] > ĚÖ[Á [ OÁ] ^ ¦æe^Áo@ Á/¦æ&d[ ¦Á ão@Á ^æ\Á ¦Áæĕ | c´Ási æt ^• [¦Á [ ¦} Ásā^•ĚÁY @ } Át] ^ ¦æeā) \* Ás[ , } ÁscA@aļlÁ; ¦Á } Á ^OÁ; ¦Áæā) Á | ā&\Á[ æå•Ěko@ Ási æt ā} \* Ásā æa} ā} & ¦~æ•^•ká • ^ Á ¢ d ^{ ^ Á&æd ^ Áse} åÁ^å \* & ^ Á [ ` ¦Á] ^ ^ åĚÁÁY @ } Át] ^ ¦ææā) \* Ási Át æ-ækáæt æt à \* c@ Á/¦æ&d[ ¦ep Átæe @a) \* Á æt } ā} \* Áāt @ \* Áse) åÁ^å \* & ^ Á [ ` ¦Á] ^ ^ åĚÁÁY @ } Át] ^ ¦ææā) \* Ás Át æ-ækáæt [ ` } åÁ[ ` æ) åÁ ææ&@át ` OÁ[ ¦Ác@ Át c@ ¦Á\* ` ÈÉWWébö⊯JD





8.1 Starting the Tractor

V@Á; ![&\å` !^Áţ Á œdó@ Át æ&q !Áã Á; [å\|Á] ^&ãæÈ Ü^^!Áţ Á@ Át æ&q !Á[]^!æţ !q Á; æj ǎ æjÁţ !Á œdæ]\* ] ![&\å` !^• Áţ !Á`[` !Á] ædæč !æjÁt æ&q !EÁÔ[ }•` |∽Áæ] æ` c@ !ã ^åA å^æ^!Á ãÁ@ Á • œdæ]\* Á] ![&\å` !^Á ã ` } &\^æEÁÔ}•` !^Á@ Á+EĴ [ā] cÁ&[ }d[ |Á/^ç^!Áã Á§ Áœ ![, ^!^åÁţ [•ãæţ] } Áæ) å Á@ ÁUVU Æ Åãæ^} \* æt ^å Åa^-ţ !^ • ædæ] \* Á@ Át æ&g !EÁOPS-U-0033



U]^¦æqāį}ÂÛ^&cāį}ÂHĖĠJ

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#### 8.2 Brake and Differential Lock Setting

Tæ\^Á\`¦^Áo@^Átæ&d;¦Áà¦æ\^•Áæ\^Áa;Á`[[åÁ;]^¦ææa;' &[}åãdā[}ÈÁV¦æ&d[¦Áà¦æà^•Á&æa)Áà^Á•^oÁd[Á]]^¦æe^ ājå^]^}å^}d^ Áæll[,ā]\*Á•ā]\*|^Á\^ælÁ,@^|Áàlælā]\* æ&dā[}Á[¦Á|[&\^åÁg[\*^c@\¦Ád[Á,¦[çãå^Á+eã[č|lœa}^[č• ¦^ælÁ @^|Áà¦ælā]\*ĚÁ∕QUÜÁTUÙVÁÖÜQ∢OpÕÁOD∋Ö UÚÒÜŒVQÞÕÁÔUÞÖQVQUÞÙÊÁ/PÒÁÓÜŒSÒÁÚÒÖŒŠÙ ÙPUWŠÖÁÓÒÁŠUÔSÒÖÁ/UÕÒVPÒÜÁ/UÁÚÜUXØÒ VPÒÁT UÙVÁÒØØÒÔVQ\ÒÁÓÜOESQEÕÁQEÔVQUÞĚÁ

OE, æê•Áåãa^}\*æ\*^Ác@Ad;æ&d;¦Áåã-^¦^}œædÁ[&\Á @^} č¦}ā[\*ÈÁY@^}Á^}\*æ\*\*^åÁo@^^Áåã--^¦^}oãæ‡Á∥[&∖Á,ã∥ ] ¦^ç^} oÁ[ ¦Á|ã[ ãoÁo@•Ád æ&d[ ¦Á-¦[ { Áč ¦} ā] \* ĚÁÖ` ¦ā] \* }[¦{ aqkÁ&` ccāj \* Á&[} å ãcāj }• ÊÁ|[ & \āj \* Ác@• Áåã--^\^} cãaq) ] ¦[çãå^•Á,[Áà^} ^~ãoÁse) åÁ @[`|åÁ,[oÁà^Á •^åÈÁ





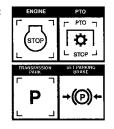
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æļ æì•Áí•^Ás@^Á/¦æ&q[¦q:Á¦æ:@āj\*Áj æ}ðj\*Ájæ;Åä\*@erÁæjåÁ/^å\*&^Á[`¦Á+]^^åÈÓ^Áæjæ^A{i,-Ádæ-38Áæd[`}åÁ[`Áæjå , arese of coll the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the operators of the ope

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U]^¦æeā[}ÂÛ^&cā[}Å+ËH€

#### 8.3 Driving the Tractor and Boom

Ùœekof{,~~Áå¦áçāj\*ÁæexÁæf|[, Ár]^^åÁæjåÁ\*¦æåĭæ¢i^Áðj&k/~æe^A^[`¦Ár]^^åÁ,@aţA\*(æðjææðjāj\*Á&[{]|^c^Á&[}d[|Á;-Á∞ dæ&q[¦ĚÁÞ^ç^¦Á;]^¦æe^Ác@Ádæ&q[¦ÁæeÁ\*]^^å•Ás@æex&ædj}[oÁà^Á;æ^|^Á@ædjå|^åÁţ¦Á;@a&@ájāj\*Á&[{]|^c^Á&[}^!æe[ ~{[{Á(q[]]āj\*Á``a&\|^Áa``iāj\*ÁæjÁ\*{^!\*^}&čĚÁQÁc@Á;[,^\Ác^^¦āj\*Áţ¦Á\*}\*āj^Á&^æe^•Á;]^¦ææāj\*ÉA(q[]Ás@Ádæ&q[! ãj{^åãæev|^ÁæeÁs@Ádæ&q[!Á;ã]|Áa^Áaãa&č|oÁq[Ás[}d[|È

Ú^¦-{¦{ Áč ¦}•Á ão@Áœ Ádæ&d ¦Áæ) åÁ{ [, ^¦ÁæA\* [] •]^^å•Ád [Åå^c^¦ { ā}^Á@ , Ác@ Ádæ&d ¦Á, ão@Áæ) å æcæ&@ åÁā[]|^{ ^}c^Aœ} å|^•Áæáč !}ÈÖ^c\*!{ ā}^Ác@ •æ^Á]^^åÁt [Á; æð cæð A, !]]^!Á&[}d[|Á; -Ác@ Ádæ&d ! , @}A { æta }\*A č !}•ÈA Y @}A č !}a \*Á, ão@Á c@ ãt ]|^{ ^}c^C@ Át c^!æ!A [!\ā}\*Á^} co@fæ) åÅ ão c@ ãt ]|^{ ^}c^C@ Át c^!æ!A [!\ā}\*Á^} co@fæ) åÅ ão c@ at ]|^{ ^}c^C@ Át c^!æ!A [!\ā}\*Á^} co@fæ) åÅ ão c@ to c@ Á }ãt fa & a ^ a ÉCCE[[, Áæå åãat }æf&] æf&] æf&] & A c@ Á `}ãt , @}A č !}a \*A [!A, @}A] æ•ā] \*A [æ] c@ Á `}ãt , @}A č !}a \*A [!A, @}A] æ•ā] \*A [æ]\*A [à•d č & cat }•ÉA

V[Áæç[ãáÁ[ç^\č \] ●ÉÅ\ãç^Ác@Á:3æs4[\Á ã@Á&a^Áæ)å æéÅ•æ^Á]^^ å•ÉÅ^]^&ãæ4]^Á\_@}Á[]^\!ææ3;\*Á[ç^\ \[`\*@Á\*\[`}åÊÁ&[••3]\*Áåã&@•Á[\Á•|[]^•ÉAæ)å č\}3]\*Á &[\}^\•ÈÁ W•^Á ^¢d^{ ^A &æč qā}}Á\_@} []^\!ææ3;\*Á\}Á;c^]Á\[]^•È&S^^]Á@Á:3æs4[\Á§Áæ4[] \*^æ4Å\_@}A`[3]\*Áå[]}@\$\ÈÁÖUÁ>UVÁ&[æ•o4\[\Á\^^Ë ,@^|Áå[]}@\$\È

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▲WARNING ▷^ç^¦ÁŠ^æç^Ác@`Á{[,^¦Á`}ææc^}å^åÅ, @≱^Ác@`Á@`æåÅā;Åg`Ác@`Á'æãi\*^å ][•ãā]}ĚÁ⁄@^Á{[,^¦Á&[`|åÁæ|Á&æč•ā]\*Á\*^¦ā[`•Áā)b`¦^Á{[Áæ}}^[}^Á, @ { āt @Á\$jæåç^¦c^}d^Áå^Á}å^¦Ás@^Á{[,^!.4∞orito





CĘ, æ̂•Á\^^] ÁæÁ&æh^~`|Á|[[\[`Ćæ) åÁ`•^Ár ¢d^{ ^Á&æh^Á, @}}Á, [¦\ā]\* æl[`} åÁ[ç^¦@æåÁ[à•d`&cā]}•ĚÁÞ^ç^¦Áæ¢|[, Ác@ ÁT [, ^¦Á@æåÁ[¦Áà[[{ ,ãc@j,ÁF€Á^^cÁ[-Áæ]^Â,[, ^¦Á]3,^ĚÁÝ@}Å, [¦\ā]\*Á&|[•^Áş[Á, ç^¦@æå ][, ^¦Á]3,^•Á&[}•`|cA[`¦Ár|^&d3&Á&[{]æ}^Á[¦Áæá+æ^Á&[å^Á,-Á]]^¦ææā]}È çvor E D



### **9.OPERATING THE BOOM UNIT AND ATTACHED HEAD**

V[ÁY}•` ¦^Á;æ^cî Áţi Ás@ Áţi]^¦æqi ¦Ébàa) å^\'•Êba) åÁ`` ä] { ^} ofea) åÁbà^-{ ¦^Á;œcd;ä \* Ába) ^ Áţi [ , ā] \* Áţi]^¦æqā i ÈbV@ []^¦æqi ¦Áţi \* oÆbà^&[ { ^Áæqi äjäæd Áj äc@b@ Ábd^æAqi Ába^Áţi [ , ^åÊba) åÁba) ^ Áţi à• œa&|^• Ába) åÁ@e ædå• Á&[ } œaā ^ å Áj äc@j È Ù] ^&äæqbÁææc^} cāti } Á• @ti `aÁà^Á] æäña Áqi Á-{ ¦^âti } Áå^à lã ÊA[ ç^¦@ æåA[ à• d` &cāti }• ÊA[ i \* @Ác^¦¦æabi ÊA• c^^] Á• [[ ] ^• Ê ] æ•^\¦•à^Ába) åÁba) áţi æd• Ábj Ás@ Ábd^æÈ

U}|^Á[]^¦æe^Ác@Á{[, ^¦Á@zæåÁ+[{ Ác@Átæ&q[¦Á[]^¦æe[¦qA+^æAýãc@Á+^æà/|cÁ+^&`¦^|^Áæec}}aÈÉÁU}|^ []^¦æe^ÁæÅi[[{ Áse}åÁ``ā]]^åÁ@zæåÁ;}Á%zæàà^åÁktæ&q[¦Ás@zecÆa Á``ā]]^åÁjãc@ÁseÁi[|î&ædà[}æe^Áæ^cĖË;¦[c^&c^å ¦ã®cÁãà^Ájā]å[, Á¦ÁseAj[}Ászæàà^åÁstæ&q[¦Á``ã]]^åÁjãc@ÁscÁÜUÚÙÁse}åÁj]^¦æe[¦Á;æ^cÁ&k'^}ÈÁ

Cīç[āāÁ]]^¦ææ]\*Ájā Ás@Á\^ç^!•^Áåāl^&cāļ}Á @}Áj[••āà|^ÈÁQ)Áāč ææāj}•Á @¦^Ác@Áà[[{{Áæ}}åÁ;[, ^¦Á;`•óÁà^ àæ&\^åÁt[Áæ&&^••Áæ'^æ•Át[Áà^Á&`dÊ4;æ\*^Á\*`¦^Ác@¦^Áæ\*^Áj[Áj^!•[}•Á;¦Á;c@¦Á{¦^ã}}Áå^à¦ārÁà^@jåÁc@Átæ&d;¦È Y@}Áàæ&\āj\*Ê4j]^¦æe\*Ás@Átæ&d;¦ÁæeÁæ4(`&@4\^å`&^åÁt¦[`}åÁ]^^åÁt[Á\>•`¦^Á&[{]|^c^Á&[}d[|Á;Ác@Á'}ãóÁa {æajicæaji^åÉÁOPS-B-0007

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Clīç[āâA{ [,ā]\*A∃ A^ç^\•^Aåā^&cā] } A @ } A] [••āà|^EAAO @ & A[ A{ æb ^A\*`\^Aœ\^A}]
 ]^\•[]•Áb^@] åÁ@ Á{ [,^\fab] åÁ •^Ár¢d^{ ^{Aga}^Á} @ } A] [••āb|^EAAO @ & A[ A{ æb ^A\*`\^Ac@\^Aæb^A}]
 ]^\•[]•Áb^@] åÁ@ Á{ [,^\fab] åÁ •^Ár¢d^{ ^{Aga}^A} @ } Á{ [,ā]\*Áb] Á^ç^\•^ÈÁ [, Áb] ÅÆ¢ Åæ Åe
 •[[, Á\*'][`} åÁ\*]^^àÁ, @\^Aî[`Á&æ A\* æ^î^A[]^\az\*^Aæ àÁ&] àÁ&[]d[|Ác@ Ád æ&d [Aá] åÁ{ [,^\È
 b^ç^\A[[, Áb] Ább ^æb ^æb @æ Á[[`Á@æç^A][ oÁb] •]^&c^àAbb åÁA { [,c^àAbb ^à]ã A[ \A[ \A] \* A] } Á[ æc^\abb #]

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#### 9.1 Foreign Debris Hazards/Overhead Obstructions

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#### 9.2 Operating Speed and Ground Speed

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#### **AWARNING**

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#### 9.3 Operating the Attached Mower Heads

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#### 9.4 Mower Operation

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#### **AWARNING**

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#### 9.5 50" & 60" Boom Rotary

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Ú[,^¦ā]\*Ác@Áà[[{Áå[,}ÉÁv{¦&ā]\*Áv[,^\Áå^&\Á;]d[Á\*¦[`}åÁvæā;æ\*^Áv[,^\Áå^&\Áæ)åÁāce; هو جمعان المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظم

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©2013 Alamo Group Inc.

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å[、}Á}ãdÉk0Ee^\¦Áse|Á,[cā[}Á;d[]•ÉÁ,^{ [ç^Á[|ãæ\*\*^Á+;[{Á;[、^¦Áå^&\È

Ó^\*ā)ÁæAjæ•ÁæAv@Át[]Á:ãå^Át-Ác@Át^^•Áæ)åÁ [¦\Áå[,}Á,ãc@Ávæ&@4&[}•^&čaĩç^Ájæ•ĚAv@}Á&čaāj\*Át^^•Áæ)å •@čà•Ê4`•^ÁæAt[,^¦Á]^^åÁt[Áæ‡|[,Ác@Á;ãç^•Áæ] ^Át[Á&čoÁæÁ,^||ÁæAt[`]&@ác@Át[1ãæt^È



\_\_\_\_\_QÁà^•cæ)å^¦•Áæ]]¦[æ&@Á,ãc@a,ÁH⊜EÁ^^cÁ,@ǎA^A([,^\Áā,Áā,Á]^¦æaā[}Áč'¦}Á([,^\ÁA;ā&@Ád,ØØ+ uG\_\_\_ā{{ ^åãæe^^Â&@e^!Á@ea[,}Ê5,^ç^!Á^æç^Ás@Ád;æ&q[¦Át¦Áæ][,Áa^•cæ)å^¦•Át[Áæ]]¦[æ&@Á,ãc@3,Ás00 FEETÁ,Ác@Á}ãóÁ}dáÁæ4|Á[[dā]}Ád[]•Á&[{]|^c^|^È

GÁ&č co^¦Á @eeo/hæqi • Áæj å Ár ([] • ÉÁč ¦} Ái [, ^¦Ár, ão&@Átj Ákul 2020+Éáej å Ár, ãç^|Áa[[{ ÁGAE2V+HÉAP[¦{ æ||^ Ác@ár Áæ&aātj}} Áj ā| &|^æa Ác@ Á&č co^¦Á@ æå ÈÉGA9;[dÉ41[||Ái,[, ^¦Áå^&\Á`} cājÁæå bæ&^}o Átj Ás@ Ár^&[}åæå^ Aà[[{ ÉÉc@}} ÁI[, ^¦Áa[[{ { [, ^¦Áå^&\Ai,}} Át'][`} å ÈÉÙ@ oAj, ~Áx@ Ásiæ&qi ¦É4^oAj, æ\]ā \* Ási¦^æa Éáæ‡I[, Áæ‡IÁi, [cāi,} Átj Á&ç æs^ ÈÁCEÁs@æeAj,[ā) oÁsi/ãr Áræ^ qi Ár^æç^Ás@ Ásiæ&qi ¦Áæj å Ásu¦^æá Ás@ Á&č co^¦Á@ æå•Aj, æ} æ]^È

Ó^\*∄ Á\æ&@\$jæ•Áæók@A[]Á\ã&^A[Á\@At\^•ÁæjåÅ [|\Á&[,}}Ájã@A\æ&@4&[}•^&`cãç^Ájæ•ÈÁ\+^Áæ4[, A`]^^åA[ æ‡|[, Ác@Á&`ccāj\*Áa|æå^•Ácãi ^Ác[Á(`|&@ÁæeÁ, ^||ÁæeÁ&`cÁc@Á-[|ãæt\*AÉAY@}}Ác@Á3jãnãæ‡Ajæ•Á@æeÁà^^}A(æå^Ê åã\*^}\*æt\*Ác@Á[[, ^¦É&ejåÅ^č¦}Áa[[{ Át[ÁæÁ\*æ^Áslæç^|Aj[•ãnã]}ÈÄÜ^č¦}Át[Áicæ=c3j\*Aj[3jcAeejåA(æ+Aj^¢cAjæ•Ê ^c&ÈE

CEe^¦Ác@ Áđ•ofá æ Á[-Á]^¦æaā] كَلْحَطْمُ اللَّهُ [ اِنْ هُ اَلْاَ اللَّهُ الْمُعَامَةُ اللَّهُ الْمُعَامَةُ ال ]^¦āj å گھطاٍ^ Ág Á}•`¦^Ác@ Áa[ اِن الأَمَارِ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ ا []^¦æag[ الكُ

**OPERATION** 

Y@^}Á&`ccāj\*Ád:^^•ÁæjåÁà¦`•@Áæj]¦[æ&@Á(æe^¦ãæj (fÁa^Á&č oÁ, ãc@ás@cÁ@cæåÁ,^¦]^}åã&č |ælÁa[Á, æc^¦ãædÈ V@^Á&`ccaj`\*Á^å\*^Á[~Ác@^Áà|æå^•Á•@[``|åÁà^Ác@^ [}|^Á\|^{ ^} @ Á\$JÁ&J}œa&CÁ,ãc@Á,æe^¦ãæd-ÉÁ/@ Á\$u|æå^ àæ¦Ár@[č|åÁ;[cÁ&[}cæ&cÁ;ãc@A;æe^¦ãæ;HÉA/@:Á;[、^¦ @׿åÁ æ}åÁ à|æå^•Á •@2ĭ|åÁ à^Á {[ç^å ]^¦]^}å&&`|æ|^Á&jq[Ác@^Á(æe^¦ãæe|Á/æe@^¦Á[[,^¦ðj\* c@^Á{ [ ^ \ Á@ æåÁ[ } Á{ ] Á{ ~Á{ æ^\ ﷺEA@ Aa|æå^ àæłÁ<sup>\*</sup>å\*^•Áæ<sup>\*</sup>A<sup>\*</sup>[<sup>\*</sup>\*^åÁ<sub>t</sub>¦Á[<sup>\*</sup>}å^åÁ<sub>t</sub>'[{Á, ^æÉa@ { [ , ^¦Á@zæåÁã;Áà^ą] \* Á` • ^åÁą] &[ ||^&d^ Áā;Áæ) æà`●ãç^Á(æ)}^\ÈÁ/@\Áa|æå^Áaæ¦ÁārÁ,[oÁajc^}å^åAí{ & oÁ, æe^¦ãæaÁ,¦Ás[Ásì^Áæá, ^æa'Áãe^{ Aã^Aó@^Ási|æå^∙È Ö[ÁÞ[ Áæ|[ 、Ác@ Áà|æå^• Á[ ¦Áà|æå^ ÁàæłÁ[ Á&[ } æ&c c@^Á\*¦[`}åÊÅ[&\•Á¦¦Á[|ãåÁ¦àb^&c•ĚÔ[}œa&oÁ,ão@ `à^āj\*Ác@[()}Á[čoÁ+¦[{ Áĭ}å^¦Ác@^Á{ [(^\¦Á@>æå , @3&@4&æ) Á&æĕ • ^ Á• ^ ¦ãį č • Áāj lŏ ¦ã• Á[Ác@ Á;] ^ ¦æe[ ¦ æ);åÁà^∙æa);å^¦•ÉÁ/@ã;Áĉ]^Á[;-Á[;]^¦æaã[;}Á&æ);Á[^æå [ Áà^} ơ¼ ¦ Áà¦[ \^} Áà|æå^ Áàæ + Éà¦[ \^} Áa|æå^ Áà[ |œ æ) å Áà¦[∖^} Áà|æå^ Áàæi Áæ••^{ à|^ Áà[ |o• Á @&&@4&æ) à^Ásaa) \*^¦[ĭ •Ás[Ás@?Ás] ^¦æe[¦Ása) åÁsì^•œa) å^¦•È

CORRECT INCORRECT

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-R-220)

#### 9.6 50" Boom Flail



AWARNING

U]^¦ææāj\*Ác@A{,[, ^¦ÁājÁæA{, æ}}^¦Ác@æeÁæq|[, •Ác@A()ãç^•Áq[Á&[}œāj`æq|^Á{[|å.Ásaæ&\Á[!Áæq|[, ā]\* \}ãç^Áj`\*•Áq[Á&[}œæ&cÁ{[|ãæ\*^Á,ã]|/&æ\*•^Áj^¦{ æ}}^}ofsaæ{ æ\*^Áq[Áx@/&x`cc^¦Án@æeó4s¦`{ ÊÁ}}ãç^•Ê&eojå \}ã^Áæccæ&@{ ^}ofj,ætorÈ

AWARNING

AWARNING

V@ Á €-Aà[[{ { A|æaājÁ& co\¦Á @eeoÁā Áå^•ā} } åA{[¦Á rœa}åædå Á[cæaā]} Á Ģa ∉ ^ Á[cæaā]} Á æ Á@ Ádæ&d[¦ , @^|• Áå ¦ā] \* Á{[; æðå Ádæç^|DĚA Never operate the cutter shaft in reverse rotation. ÁU] ^ ¦æaā] \* c@ā Á, [, ^¦Áaj Á^ç^¦•^ Á[cæaā]} Á, æĉ Á&æě •^ Á, àb & có Á{ Áb ^ Aœ Á []} ó Á ~ Á∞ Á, [, ^| Áœ æå È V@ Ã €-Aà[[{ { A|æājÁ` čā]}^å Á ão @Á\^^ Á; ā] \* ā] \* Åa' é @Á} ãç^• Áā Áb c^} å^å Á{ ¦Aà|`• @Á& ca3 \* Á; } | È Ô ccā \* Á ¦æ• Áā Á[ cá^ & { { ^} å^ àE

U]^¦æqāį}ÂÛ^&cāį}Á+ĒHÏ

OPERATION

AWARNING

Ö[Á][oÁæd|[, Á}ãç^•Á[fÁ&čoáb[, }ÁtjÁo@Át¦[č}åÈÁÚ[•ãāā]}Át¦[č}åÁ[||^¦ÁtjÁ(æd3)cæd3,Á}ã^Áæd&AædAæ {ā}ā[č{Át]=ÁGÁ33}&@•Áœab[ç^ÁœAt][č}åÉS}ã^Á&[}cædsó4[¦Át\*Á&[}cædsó4]å@át¦[č}åÅ;ā|Á&æč•^ ]^¦{æ}^}oábæq{æt^ÁtjÁ&čœc\Á;@ædÊA}ãç^•ÉæbajåÁ}ã^Áæcæd&@(^}oáhætoeÈ

#### 9.7 63" Boom Flail

V@AÎ HHÁL[[{ { Á|æalÁ[ [ , ^| Á] æ Áå^•ā] } ^å Á[ ¦Á&` œ] \* \* |æ•ÈÁV@Á&` œ^¦ Á @œeó4] ^^å Á{`•óhà^Á{ æij æaij ^å - [ ¦Á] ![] ^¦Á&` œ] \* ÈÁV[ Áij •` '^Å@æeᜠÁ&` œ'! Á @æeá¤ ![ œeā] \* Áæcá{ æ¢ā[ ` { Á•] ^^åÊA!` } Á dæsd[ !Áæcá~ || c@[ œd^Áå` !ā] \* Á{ [ ,ā] \* Á[] ^!æatij } •ÈÁQÁ&` œ^! Á @æe c • [[ ,•Át[ Áœ Á] [ā] óÁc@æác@Á } ãç^• Áæ ^Á[ åā] \* ÁàæsA æª æaij • oÁc@ Á&` œ^! Á• @æedÊA{ [ ç^Ác@ Á[ åā] \* ÁàæsA æ‡ æaij • oÁc@ Á&` œ^! Á• @æedÊA{ [ ç^Ác@ Á[ ] ^!Á@æå æş æâ Á![ { Ác@ Á[ jãet ^ Áæ) å Áæ|[ , Ác@ Á&` œ^! Á @æeoÁt !^\* æaij Á` ||Á] ^^åÈ



A DANGER

V @ A¦[cæcā]\*A] æ to A[-AcoãrA[:æ&@ā]^A@cç^Aà^^} Aå^•ā\*}^åAæ) å Aco•oto\*àA-[¦A¦`\*\*^åA`•^E P[,^ç^¦Éx@ Aà|æå^•Á&[`|åÁæajÁ][} Áā[] æ&cÁ;ãco@@cæ;îÉx[|ãáÁ;àb%&orÁ\*&@sæe Á[^cæbá\*\*æå ¦æā]•Áæ);åÁ&[}&\^c^Á\*d`&c`¦^•ÉÁÙ`&@áā[] æ&cÁ&[`|åÁ&æ\*•^Ác@ Áà:[\^} Á[`àb%&orÁ\*\*&@sæe Á[Áà^Áco@[, } [č;æååÁæeAç^¦^Á@ā\*@éç^|[&ãazð•ÈÁV[Á\*å\*&Aco@Aj[••āàājāčÁ[-Aj;¦[]^¦c`Áåæ{;æ\*AÉ\*\*\*\* ā) b´¦^Ê4j;¦Á\*ç^}Áå^æe@É4^ç^¦{Á#e4}[,Áx@ Á&`caā]\*Áà|æå^•Át[Á&[}æ&cA`&@át[à•cæ&]/•ÉAçiör#o

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à^Áĭ•^åÁeajåÁ{ænajœnaj^åÁajÁt[[åÁ,[¦\ā)\*Á&[}åãñaj}ÈŹÁCE[|Á;æ^cőÁå^çã&^•Á•@[č|åÁà^ āj•]^&cvåÁ&æa^~~||^ÁeeaÁ^æ=oÁsæaná Á{!Á{ã•ā}\*Á¦!Ás![\^}&&[{][}^}or ĚÁTā•ā;\*Ési[\^}Ê [¦ÁÁj[!}Áec^{{•Á[č•óAs^Á]]}æ&^áAeeaÁ}&Ack[Á^åč&^Ac@Á][••ãaājãčÁ[-Á5gbč]^A[!Ásae@ --{[{Áo@[]}Á[àb%&or ÉA}æa)\*|^{ ^}OÉAjeæá^Á&[}œædÁsjör#o

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**OPERATION** 

#### 9.8 Shutting Down the Attached Head- For Standard Equipment

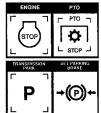
V[Á\*@ Ó+å[ ] Áæccæ&@ åÁ [ ] ^¦Á@ æåÊÁã• ó+à¦ã \* Ác@ dæ&d[¦Á[ÁæÁ&[{]|^c^Á;d]]ĚÖ^&¦^æ^Á?}\*ā]^ÁÜÚT d[Á&áļ^Áx@)}Áåãa^} \* æ\* ^ & čc^¦@æåĚAV@A([ [ ^ ^ ¦Á@æå ,ā|Á&[{^Áq[ÁæÁ&[{]|^c^Á•q[]Á,ãc@a}ÁæÁ\*ãcæà|^ æŧ [`} œ́[ -Áœ̃[ ^ĖĚÖ[ Á} [ œ́^} \* æ\* ^Á[ ¦Áåæ̃ ^} \* æ\* ^Áœ® & cc^¦@>aaa•AaaaÁaeA@tt @ÁÜÚTÁ } |^••Ac@o\\^ÁãaÁae} ^{ ^ \\* ^ } & Á ãč ædā } È

Úæl\Ác@At æ&q ¦Á[}ÁæÁ|^ç^|Á\*`¦ æ&^ÉA]|æ&^Ác@ dæ)•{ã•ã}}Áã;Á]æ\Á[¦Á}^čdæ)Áæ}åÁæ]]^Ác@ ] æk \ ðj \* Áa ¦ æk ^ É 🖗 @ o Áa [ , ] Á ó @ Á^ } \* ðj ^ É A \ { [ ç^ Á c @ \^^ÉÁce)åÁ, zaãoÁ[¦Áce|Á, [cã[}Ác[Á&[{ ^Áo[ÁceÁ&[{ ]|^c^ • (] Áa^+ |^ Á¢ãã; \* Ás@ Ás æso( ¦È OPS-B-0011\_D

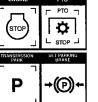




#### A DANGER



OO2UUO4(^æçã) \* As@ Aslæ&d[¦Al^æE2æ¢], æê • Al^oAs@^Aj,æ\\ð] \* Asilæ\^Aæ), å⊕ ¦Al^c c@ Ádæ&q[¦Ádæ]•{ã•ã[}Áã]Á]æ{\ã]\*Á\*^æÉÅåã^}\*æ\*^Ác@ ÁÚVUÉ¥•q[]Ác@ ^}\*ā]^ÊĂ^{ [ç^Ác@A^^ÊĖee)åĄ aãaóA[¦Áee|A([çā]\*Á]æeoA([Á•d[]ĚÁÚ|æe&^Ác@^ dæ&d; ¦Á•@ãoÁ^ç^¦Áājd[ÁæÁ][, Á/æ)\*^Á[; Á]æ\āj\*Á\*^æAá[Á]; ^c^}}óAc@Ádæ&d; ¦  $\label{eq:alpha} \begin{array}{c} \label{eq:alpha} \label{eq:alpha} \end{tabular} \begin{array}{c} \label{eq:alpha} \end{tabular} \end{$ ãrÁ`}}ā;\*ĚÁU]^¦æe^Áo@A/¦æ&o[¦Á&]}d[|•Á+[{Ás@A;æ&o[¦Á•^æeA;]^Èouõeo



### **10.TRACTOR, BOOM, AND ATTACHED HEAD STORAGE**

Ú¦[]^¦|^Á;|^]æðið \* Áæðj å Árd[¦ðð \* Ás@ Ár}ãnÁænÁ@ Ár}å Ár, Ás@ Ár^æer[}Áār Á&lãn38ædÁt[Ár, æðinæðiðð \* Áñer Áæðj]^ælæðj & Áæðj å Átj @|]Ár}•`¦^Ár^æl•Ár, Á&^]^}åæði|^Ár^¦ça&rÈÁV@ Ár[||[¸ðð \* ÁædrÁ`\*\*\*^•c\*å Árd[¦æt\*A∱¦[&råi`¦^•K

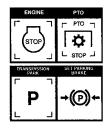
- ″ V@;¦[`\*@;Á&,\^æ),Áæ,|Áå^à¦ãrÁ¦[{Áà[[{Áæ),åÁ @^æaåÁ{[Á],\^ç^}∂Åaæ(æ\*^Á√[{Á[ccā],\*Á\*¦æe•Áæ),åÁ •cæ),åā]\*Á,æev\È
- ŠšàlašæevÁædlÁtl^æevÁj[ājœÁæ)åÁāllÁjājÁvç^leÁ æ&&[låāj\*Ág Ác@Ájæājc^}æ)&vÁjäla&æaāj}Å e&@åĭl^È
- ″ Vāt@c^}ÁæļAáj[|o•ÁţÁc@cÁjl[]^lÁţ['`^ÈÁÒ}●`l^Á æljÁjā,●Áæ}åAjœc@lÁ@æåå,æh^ÁæAájÁ|æ&cÈ
- ″ Ù¢[¦^Ás@∘Á`}ãx/\$jÁsz48|^æ), Åse) å/&¦^Á[&æeā]}È
- W ^ Á;] ¦ æ Å[ ` & @ Ë ] Á} æ { ^ | Å @ | ^ Å ^ & • æ ^ Á [ } Å; æ ^ Å [ ` & @ Å; ] & æ • Å[ Å, !^ ç^ } & á \* • Å; Å [ æ ; œ ; Å@ Å; ] ^ æ æ & • Å[ Å, !^ ç^ } & á \* • Å; Å [ æ ; œ ; Å@ Å; ] ^ æ æ ; & ^ Å; Å@ Å; [ , ^ ! È OPS-B- 0012\_C



A DANGER

Þ^ç^¦Áæ∦[, Á&@4å¦^}Át;Á|æâÁ;}Á;¦Áæ;[`}åÁ!æ&2(;Á;¦ÁQ;]|^{ ^} dŽÖ@4å¦^}Á&æ;A[a,A;¦Áæ;A; c@ÁÒ``ā;{ ^}oÁæ;åÁa^Áā;b`¦^åÁt;¦Á;a]|^åĚÔ@4å¦^}Á&æ;Á&æ; ^Áo@ÁQ;]|^{ ^}oÁt;Á;@ã-oÁt;¦Áæ; &i`•@3;\*Áo@{ •^|ç^•Á;¦Á;c@¦•ĚÁqiö⊞i⊳

 ADANGER
OO2UUOA(^æçā) \* A@Atlæ&q[ \A^æEæq] æê • A^oAc@Ajæklā \* Asilæi^Asilå bP \A^c @Atlæ&q[ \Addatade asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilon asilo



#### **11.TRANSPORTING THE TRACTOR AND IMPLEMENT**

Q,@;\^}cÁ@ee æåå•Á{;-Á[]^¦ææäj\*Ás@ Ákiæ&d{; lÁæbjåÁā[]|^{{ ^}}cÁæjåÁs@ Á,[••āaājāč Á[-Áæ&&&äa^}@; áA;[oÁ^~cÁa^@3jå ]@}Á[`Áājār@Á,[¦\āj\*ÁsjÁæjÁæb;AæAæÀÁ/@;!~-{¦^Êks@ Á,]^¦ææ[¦Á{`•oÁ\{]|[^Át[[åA5šå\*^{ ^}cÁæb;ÅäA`æ^Á,]^¦ææä]}] ]#æ&cā&^•Á,@}A`dæj•][¦cāj\*Ác@ Ád`æ&dq !ÁæbjåÁā[]|^{{ ^}cÁacç ^^}A[[&ææaä]}•ĚÀÁÓ`Á •āj\*Á\*[[åA5šå\*^{ ^}cÁæb;Åä -{||[\_jāj\*Á\*æ∞A`dsab;•][¦cÁ]|[&^å`¦^•ÊAc@ Á,[••āaājāč Á[-Áæ&&āā^}@ Á\_@aj^Á([çāj\*Áa^ç ^^}A`l[&ææaä]}•Á&æb;Áà^ •`à•cæb;cāæb;A`{ájājājā^a^àÈÁOPS-U-0017

U]^¦æaçãį}ÂÛ^&cãį}ÁHË €

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#### 11.1 Placing Boom Arm on Boom Arm Rest - For Standard Equipment

Ó^-{:¦^Át;æ}•][¦æ];\*Át;æ&d{:¦Áa^c, ^^}Á[&ææaī;}•É&ai^ c@Át;æ&d{:¦Á^}\*3]^É&aã^}\*æ\*^Ác@Aœæææ&@åÁ@æåÊ æ}åÅ;æañA{;¦Áaa}Å@æåÅ;[æ];}Át;Á&[{^Ák[&æ&k]{}]^c •d[]ÉAÁU]æ&^Ác@Aà[[{ {A3},Koo:A\*d{;&ec';Á;ãa&@át c@Áu@æA{;eaī;}ÈÁ

- ‴Ü^dæ&o4Ö^&∖ÁÜ[||Á&î|ā]å^¦Á&[{]|^ơ∿|^È
- ″Ú`•@ÂÛ^&[}åæbî Á&î|ājå^¦Áæa]]¦[¢ā[ææ^|îÁFBOÁ ,æîAj`dÈ
- ‴Üæãā^ÁTæãjÁà[[{Áæ]]¦[¢ã[æɛ^\|ˆ,Át[Âi€»È
- ″ Ù, ậ, \* Áa[[{ Áà æ&∖ Á |[, | ^ Á } cā/Áa/5a Á dæ≇ @ Á à æ&∖ È



لَهُه: (À، ٨ هُ أَمْ) لَهُ (A) هُ أَبْرَ الْحُصَّمُ مِلْكَلُمُ الْمُعْمَةُ الْمُ اللَّهُ مَعْدَةً مَ مَعْدَةً م لَهُ اللَّهُ (À، ٨ هُ أَمَ هُ مُحَمَّمُ اللَّهُ (À) إِنَّا الْحُصَمَةُ (A) هُ اللَّهُ مُعَمَّمًا مَعَامَ اللَّهُ مَسْطَح اللَّهُ مَنْ مَا مَا مَعْدَةً إِنَّا اللَّهُ مَعْمَدًا مَا مَعْدَةً إِلَى اللَّهُ مَعْدَةً إِلَى أَعْمَا مُسْطَح اللَّهُ مَا مَنْ مَا مَنْ مَا مَا مَعْدَةً إِلَى اللَّهُ مَعْمَدًا مَا مَا مَعْدَةً المَعْمَةُ اللَّهُ مُعْمَدًا مُعَامًا مُعْمَلًا مُعْمَلًا مُعْمَدًا مُعَامًا مُعَامًا مَعْمَا مُعَامًا مُعَ مُعْمَدُ مُعْمَا مَا مَا مَعْمَا مَعْمَا مَعْمَا مَعْمَا مَعْمَا مَعْمَا مَعْمَا مُعَامًا مُعْمَا مُعْمَا مُعَام

V@\Áa[[{ ÁārÁ,[, Áa, Áo@Ád;æ;•][¦o4,[•ãaā,}ÈÉV\*¦}Á;}Ăæ;^Á\*|^&d;]}ä&Ad;æç^|Á[&\,•ÁæeAo@Á, ãa&@a[¢È

V[Á^{ [ç^Á@Aba[[{ Á4[{ Á∞AÓ[[{ ÁÜ^•dÉAā•dáč l} Ă, -Áæ)^ Á\*|^&d[} ã&átæç^|Á[& •Áædá@A, ã&@a[¢Ás@}Á^dæ&c c@Á} š& |^Áx |ājå^lÁgāÁæ]] |ã&æa)|^DÁc@}Á, j \* Ás@ÁU^&[}åæôÁba[[{ Á、dĚAÜæãa^Áx@ÁTæäjÁba[[{ Áæ]] l[¢ā[æe^|^Â j &@•ÈÁU, ãç^|Ás@Ába[[{ Á[l, æåÁt[Ás@Ába^•ā^åA[]•ãaā]}ĚÁKOPS-B-0013\_D

#### 11.2 Transporting on Public Roadways

Ò¢d^{ ^ Á&æč qā } Ár @ ` |å Áa ^ ´ • ^ å Å @ } Ád æ) • ] [ ارتَّبَا \* Ác@ Ád æ&d [ الْحَظِي à À ( [ مَ الْمُعَ { ` • OÁa ^ Ár` ` ā] ] ^ å Å قَصْطُطُ الْأَمَا ` قَامَ مُعْمَا َ هَ هَ حَدَّ لَا مَعْلَ ؟ فَعَامَ الْمُعَامَ ؟ فَصْطُلَ الْمُعَامَ ؟ فَعَامَ الْمُعَامَ يَعْلَى مَعْلَ ؟ فَعَ { ` • OÁa ^ Ár` ` ǎ] ] ^ å Å قص هُلُمَ الْمُعَامَ الْمُعَامَ ؟ فَعَامَ الْمُعَامَ يَعْلَى مَعْلَ الْمُعَامَ الْمُعَامَ يَعْلَى مَعْلَ الْمُعَامَ ؟ فَعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ ؟ فَعَامَ الْمُعَامَ يَعْلَى مَعْلَى ؟ أَ الْقُلْعَامُ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ ؟ \* أَلْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ ؟ \* أَلْحَقُوبُ مُعَامَ مُنْعَامَ الْمُعَامَ الْمُعَامَ اللَّعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ ؟ \* مُعْلَاءًا مَعْمَامُ الْمُعَامَ مُنْعَامَ الْمُعَامَ الْمُعَامَ الْمُحْمَاعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ ؟ \* مَعْلَى مَعْمَا الْمُعَامُ الْمُعَامَ ؟ \* مَعْمَا الْمُعَامُ الْمُعَامَ الْمُعَامَعُمَامُ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَا مُعْلَمُ مَعْلَى مَعْلَى مَعْلَى مَعْلَى الْمَعَامَ الْمَعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ وَعَامَ مُعَامَ مَعَامَ مَعَامَ الْمُعَامِ الْمُعَامَ الْمُعَامَ الْمُعَامُ الْمُعَامِ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْحَقَامَ الْمُعَامَ الْمُعَامَ الْمُعَامَ الْحَ وَعَامَ مَعَامَ مَعَامَ مَعَامَا مَعَامَ الْعَامَ الْمَعَامِ الْمَعْلَى الْمُعَامُ الْمُعَامَعُمَامُ الْمُعَامَعُلَى فَعَامَ الْمَعَامُ الْمَعَامَ الْمَعَ وَعَامَ مَعْلَى مَعَامَ الْمُعَامَ مَعْلَى مَعْلَى الْمَعَامَ الْمَعَامَ الْمَعَامَ الْمَعَامَ الْمَعَامَ الْمَعَامَ الْمَعَامِ الْمَعَامَ الْمَعَامَ الْمَعَامَ الْمُعَامُ الْمَعْلَى الْمَعَامِ الْمَعَامِ الْمَعَامِ الْمَعَامِ الْمَعَامِ الْمَعَامِ الْمَالَا الْمَعَامِ الْمُعَامُ وَعَامَ مَا مَعَامَ الْمَا مَعَامَ الْمَعَامِ الْمَا الْمَعَامُ مَعَامُ مَعَامَ الْمَعَامَ مَعَامُ مُعَامَ الْمَا مَعَامَ



T æ\^A` \^A@wwAa|Atæ&( \A\æ @) \* A æ} ] # A|â @ E @æå|â @ ÊÁ æ} åÁ à æ Abæä|â @ A æ\A ~ } &a] } # ] \[ ] ^\|^ Á à ~ { \^A] \[ &^^ å] \* Á [ ] & [ ] ^\|^ Á à ~ { \^A] \[ &^^ å] \* Á [ ] & [ ] ^\|^ Á à ~ { \A} ] \[ &^^ å] \* Á [ ] & [ ] ^\|^ A à ~ { \A} ] \[ &^^ å] \* Á [ ] & [ &^^ A] & [ &^



U]^¦æaāį}ÂÛ^&cāį}ÁHËG

 $Y @ \} A [] ^ | æeij * A [] A ` a | a & | [ æ & E A @ ee c^{A} \\ & \{ \} ^ a & | a & | A [ A & | a & A | [ æ & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | a & A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A & | A$ 



🛕 DANG ER

Þ^ç^¦&aa|[, &@aa|^} A; |A; c@;'A;^!•[}•A[Aaa^A;] Ac@ A/¦aa&d[;'A; |AQ;]|^{ ^} Œ Øaa||ā] \* Á; - Á&aa) Á^•` | Ø\$J Á^¦ā[`•Á5J Ď] ^ Á; | Ás^aae@ěX4;⊎õ≣eo



**AWARNING** 

Tæ\^A&^\;cæaj, Ac@eeAc@: A%ull[, AT[çā] \* AX^@B&\^+/-QUTXD\* ā\*} AārAāj • cæ||^åAāj • `&@feeAs, æ`Áæ: Át[Áa^Á&\^æ+|^Áçã: ãa|^Áæ) åÁ\^\* ãa|^ÈÁ\Y@} Át;æ) • ][\caj \* Á@ Ò ` `ā]{ ^} cÁ` • ^ Ác@ ÁV\;æ&ut[\Á+]æ: @3j \* Á, æ} ā] \* Álā\*@• Áæ) åÁ{[||[, Áæ+|Á|[&æ dæ-a&Á^\* ` |ææāj} • Ě&joāt)



Ü^å`&^A]^^åAä^-{¦^Ač`¦}₫,\*A;¦Aæ]]^∄,\*A;@A妿à^•Ė Ò}•`¦^Ác@æc⁄à[c@á妿à^Á]^忆e∕Áæ}^Á[&\^åA[\*^c@}¦ ,@}A[]^¦ææ3;\*A[}Áj`à|&3A[æå•È OPS-U-0023



#### **11.3 Hauling the Tractor and Implement**

Ó^{ | ¦^Átæ}•] [ ¦æ] \* Áœ́́́́Į æå^åÁtæ£( ¦Áæ) å∕ấ[ ] |^{ ^} € { ^æ\* ` |^Át@ Á@ ∄ @Áæ) åÅ ãåc@Íåã[ ^} •ã[ }•Áæ) åÁt [ •• , ^ã @Á[ Ác@ Á&[ { ] |^c^Á[ æå^åÁ } ãťÉÁC) •` !^ÁtœæÁ@ [[ æåÅ ä]Áa^Á§ Á&[ { ] [ãæ) &^Å ã@Íx@ Á\\* æÁã] ã•Á^cÁ{ ¦ c@ Áæ^æ ÁcœæÅ ä]Áa^Átæç^|^åÁt@[`\* @ÉOPS-U-0024





## A DANGER

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## **MAINTENANCE SECTION**

Maintenance Section 4-1

## MAINTENANCE

#### **General Instructions**

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

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

#### **Maintenance Precautions**

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

#### AWARNING

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

#### **Break in Period**

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

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

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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)



Boom

Maintenance Section 4-2

Do not modify or alter this Implement. Do not permit anyone to modify or alter this AWARNING Implement, any of its components or any Implement function. (SG-8) Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. AWARNING Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to starting any maintenance or repair work. (SBM-6) Always disconnect the wire leads from the mower pump solenoid A DANGER 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) MAINTENANCE OF CRANKSHAFT ADAPTER ASSEMBLY (RIGID ENGINE MOUNT TRACTORS ONLY) If replacement of components of the crankshaft adapter assembly is required, follow the assembly procedures shown below. Seat rubber grommet completely into counterbore, then seat steel grommet completely into rubber grommet while rubber grommet is supported. (ASM-JD-0051 CRANKSHAFT ADAPTER MAINTENANCE) 1 - ADAPTER, DRIVESHAFT 2 - FLATWASHER 3 - GROMMET, RUBBER 4 - WASHER, NEOPRENE 5 - GROMMET, STEEL Boom Maintenance Section 4-3

#### **Regular Maintenance**

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

Refer to the Detailed Maintenance section for futher instructions on greasing. Copy and use the Daily Maintenance sheet located at the end of this section.

ITEM	SERVICE	COMMENTS
Drive Shaft Yoke, U-Joint & Stub Shaft	Grease	Grease as instructed in detailed maintenance section
Pump Drive Shaft Coupler	Check and Lube	Insure driveshaft end play
Crankshaft Adapter	Check rubber grommets	Replace grommets if damaged or missing
Pivot Points	Lubricate	Inject grease until it appears at end
Hydraulic Fittings	Check for leaks	Tighten when needed. Do Not use hands to check for leaks, see maint. precautions
Knives	Check	Inspect for missing or damaged knives, change as needed.
Spindle mouting bolts spindle to deck)	Check	Torque to 315 ft. lbs. lubricated Torque to 357 ft. lbs. dry
Knife mounting bolts (knife to disk or blade bar)	Check	Pre-lubricate threads with anti-seize torque to 800 ft. lbs.
Disk/Blade Bar mounting bolts (disk/blade bar to spindle)	Check	Torque to 180 ft. lbs. lubricated Torque to 204 ft. lbs. dry
Belts	Check/Adjust	Check if broken, tighten as required
Main Frame and Deck	Check	Retorque bolts to torque specifications in this section
Hydraulic Fluid Level	Check	Add if required per fluid recommendations
Rear Flail Drive(if applicable) Bear Flange and Shaft Coupler	Lubricate	Grease as instructed in detailed maintenance section
Cutter Shaft and	Lubricate	Grease as instructed in
Boom Maintenance Section 4-4		-4

#### **Daily or Every 8 Hours**

Ground Roller			detailed maintenance section	
	WEEKLY (	OR EVEF	RY 40 HOURS	
ITEM	SERVICE		COMMENTS	
Rotary Spindle	Lubricate		Every 40 hours or weekly	
	WEEKLY (	OR EVEF	Y 50 HOURS	
ITEM	SERVICE		COMMENTS	
In Tank Hyd. Fluid Filter <b>10 micron filter</b> )	Change		Change after first 50 hours only, then every 500 hours or yearly	
In-Line High Pressure Filter ( <b>10 micron filter</b> )	Change		Change after first 50 hours only, then every 500 hours or yearly	
	MONTHLY		RY 150 HOURS	
ITEM	SERVICE		COMMENTS	
Hydraulic Fluid Level	Check		Add as needed	
Hyd. Tank Breather	Clean/Check/Replace		Clean or replace element as required	
Rear Tire Type 480/80R38 18.4-34 18.4-38	Max P.S.I. 29 26 26			
	YEARLY O		Y 500 HOURS	
ITEM	SERVICE		COMMENTS	
Spindle Grease Hyd. Tank Fluid In Tank Hyd. Fluid Filter ( <b>10 micron filter</b> )	Change Change Change			
In-Line HP Filter ( <b>10 micron filter</b> )	Change	or	Change when indicated by restriction indicator.	
Hyd. Tank Breather	Change			
Boom	Mainte	enance Secti	on 4-5	

#### TROUBLESHOOTING

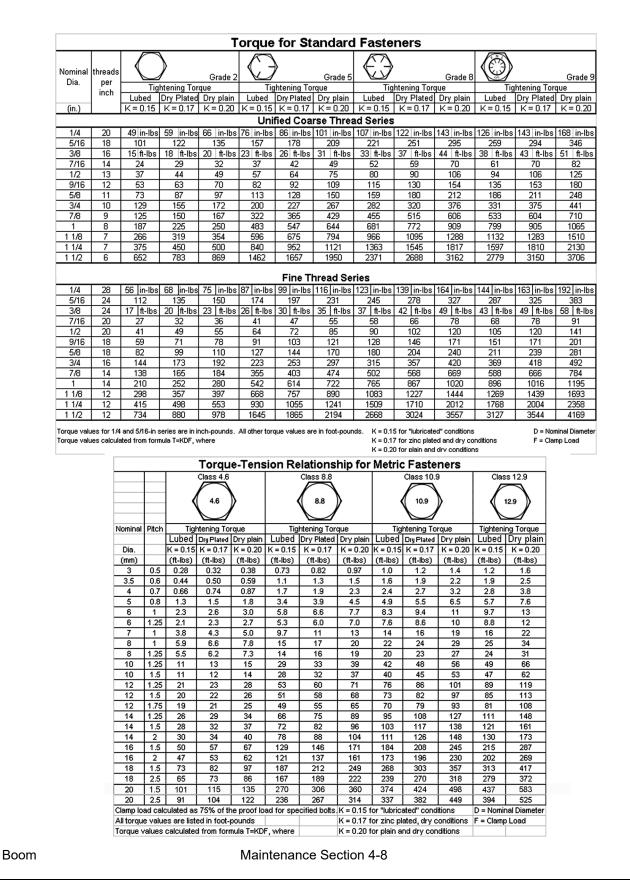
SYMPTOMS	CAUSE	REMEDY	
Vibration	1. Loose bolts	1. Check all bolts and tighten to	
		recommended torque specs.	
	2. Cutter assembly	2a. Check for damaged blades, disc	
	unbalanced	or cuttershaft. Replace if needed.	
		2b. Check for wire, rope, etc.	
		entangled in the cutter assembly	
Mower will not lift	1. Hyd. Fluid Low	1. Check and refill hyd fluid	
	2. Leaks in line ROU	2. Tighten or replace fittings and hoses	
	3. Faulty relief valve	3. Check pressure in line. Line	
	\$	pressure in control valve should be	
		at least 2500 P.S.I.	
	5. Faulty cylinder	5. Inspect, repair or replace cylinder	
Mower will not start	1. Blown fuse	1. Check fuse between mower switch	
or run		and ignition/replace	
	2. Ball valves closed	2. Make sure valves are open	
	3. Low oil level	<ol><li>Check hyd. tank and fill</li></ol>	
	4. Line leak	<ol><li>Check all fittings and lines,</li></ol>	
		re-tighten or replace	
	5. Electronic	5a. Without the tractor running, turn	
	solenoid faulty	the mower switch to on. A low	
		audible click should be heard if the	
		solenoid is engaging the solenoid	
		spool. If click is not heard, leave	
		switch in on position and with a	
		screwdriver or other steel object,	
		touch the small nut on the end of the	
		solenoid. If the metallic object is not	
		attracted to the nut, check the fuse	
		and wiring for an open circuit. If the	
		object is attracted but no "click" is	
		heard, replace the solenoid.	
		5b. Remove the four bolts holding the	
		small block to the main block. Lift	
		and remove small block being	
		careful not to damage O-rings/filter.	
		Clean filter and re-install.	
		5c. Remove large nut on side of large	
		valve block. Remove spring, and use	
		needle nose vise grip to pull spool from	
		block. Check block and spool	
		for contaminants and scratches.	
_			
Boom	Maintenance Section 4-6		

		Clean parts or replace if scratched.
	TROUBLESHOOT	ING (CONTINUED)
SYMPTOMS	CAUSE	REMEDY
Motor runs but will not cut.	1. Belts	<ol> <li>Inspect belts and pulleys. Replace belts and repair as needed.</li> </ol>
	2. Tensioner	2. Adjust tensioner nut flatwasher washer is flush with top of guide.
Mower turns slowly or not at all.	1. Contaminants restricting spool movement in valve body.	<ol> <li>Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches. Clean parts or replace if scratched.</li> </ol>
	2. Suction lines obstructed	<ol> <li>Check for kinks or obstruction in suction hose.</li> </ol>
	3. Low oil level	3. Check hyd. tank level and fill.
Pump will not work	1. Excessive wear on internal parts	1. Disassemble and repair.
Motor will not work	1. Excessive wear on internal parts	1. Disassemble and repair.

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

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

Maintenance Section 4-7



MAINTENANCE

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

Boom

Maintenance Section 4-9

#### POLYCARBONATE CARE AND MAINTENANCE

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

CLEANING THE SUPERCOAT HARD-COAT

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

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

Aqueous Solutions of Soaps and Detergents

Windex(1)	Top Job(2)	Joy(2)	Mr Clean(2)
Fantastik(3)	Formula 409(4)	Sumalight D12	Brucodecid
Organic Solvents			
Butyl Cellosolve	Kerosene	Hexel, F.O. 554	Naphtha(VM&P grade)
Neleco-Placer	Turco 5042		
Alcohols			
Methanol	Isopropyl		

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

#### **GRAFFITI REMOVAL**

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

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

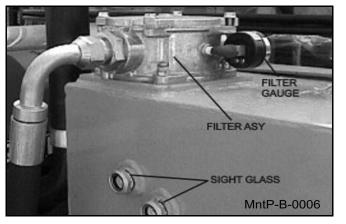
IMPORTANT: If a material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be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

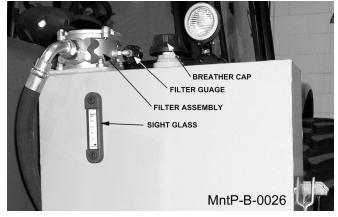
## RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

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

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

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

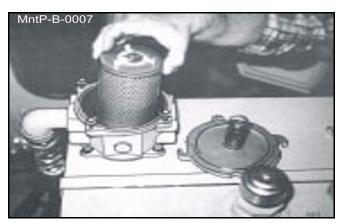




#### **DETAILED MAINTENANCE**

REPLACING IN-TANK HYDRAULIC FILTER:

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

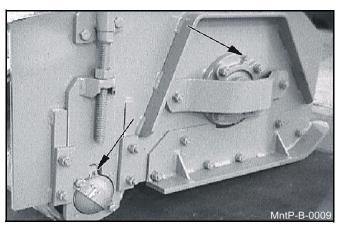


Maintenance Section 4-11

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#### **GREASING CUTTERSHAFT -- FLAIL MOWERS**

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

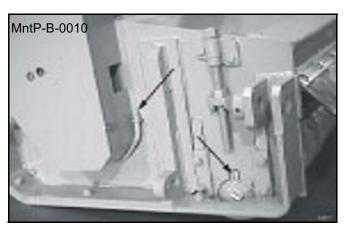


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Maintenance Section 4-12

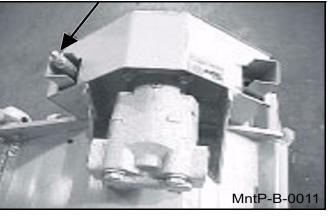
#### **GREASING GROUND ROLLER SHAFT-- FLAIL**

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



#### ADJUSTING/CHECKING BELT TENSION

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

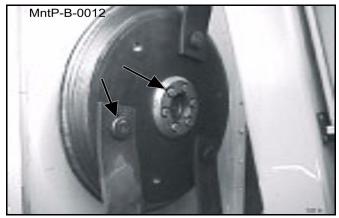


#### TIGHTENING KNIFE BOLTS AND DISK BOLTS:

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

Knife mounting bolts torque to 800 lubricated ft. lbs.

Disk mounting bolts (6ea.) torque to 204 dry or 180 lubricated ft. lbs.

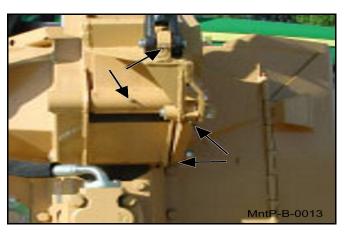


Maintenance Section 4-13

MAINTENANCE

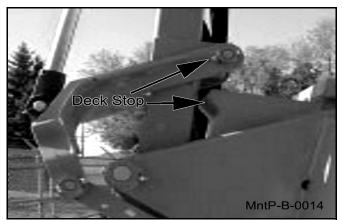
#### **GREASING POINTS ON BOOM AND PIVOT**

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



#### DECK STOP ADJUSTMENT

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



#### **GREASING SPINDLE**

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

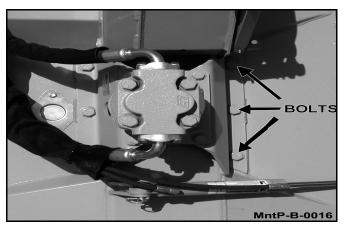


Maintenance Section 4-14

MAINTENANCE

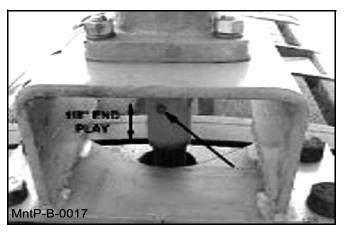
#### **TIGHTENING SPINDLE BOLTS**

The spindle mounting bolts should be checked and retorqued daily or every 8 hours of service. Torque the (6) bolts shown below to 357 dry or 315 ft. lbs. lubricated.



#### **GREASING PUMP DRIVE SHAFT COUPLER**

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

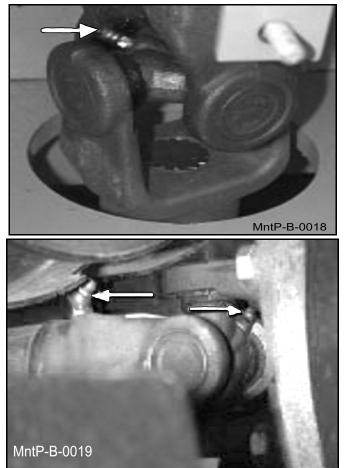


MAINTENANCE

Maintenance Section 4-15

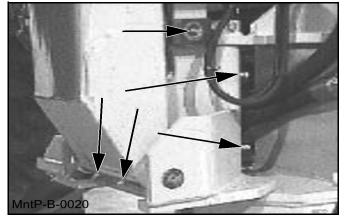
#### **DRIVESHAFT YOKE, U-JOINT STUB SHAFT**

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



#### **GREASING THE BOOM SWIVEL**

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

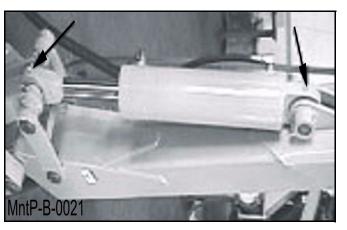


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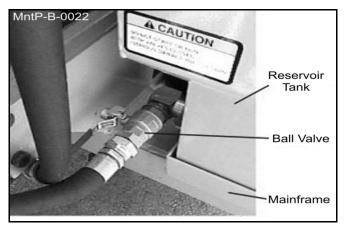
#### **GREASING BOOM CYLINDER(S) PIVOT POINTS**

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



### **BALL VALVES**

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



MAINTENANCE

Maintenance Section 4-17

#### **Blades**

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



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

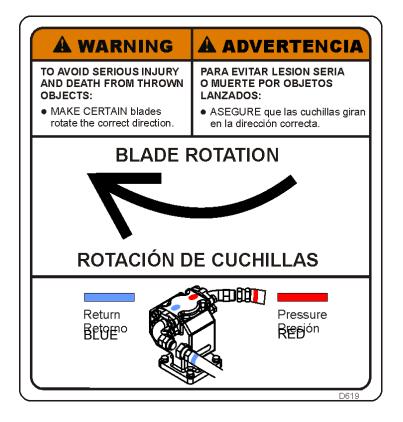
#### Important

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



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





#### **ROTARY KNIFE REPLACEMENT**

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

**A**WARNING

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

#### **REPLACEMENT OF ROTARY DISK/BLADE BAR**

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

- 1. The bolts that attach the disk to the spindle must be grade 8. These 5/8 inch bolts are to be torqued to 204 dry or 184 ft. Ibs lubricated with Loctite 271.
- 2. A thread locking agent may be applied to threads of all mounting bolts before they are installed.
- 3. Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knife mounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present the disk must be replaced.
- 4. Inspect the disk mounting bolts daily when checking tightness of knife mounting bolts. If a disk mounting bolt is loose, it must be removed, threads cleaned, fresh thread locking agent applied, and tightened to proper torque value.
- 5. If a knife mounting bolt is loose, the self locking nut must be replaced as a safety precaution. Lubricate threads with anti-seize. Install bolts through knife and disk/blade bar from bottom side. Install self locking nuts and torque them to 800 ft. lbs.

Boom

Maintenance Section 4-19

#### **Flail Blades Inspection**

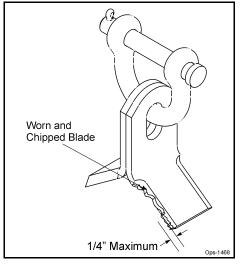
A DANGER

Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

- · Become bent or deformed from its original shape, or
- Wear inside the blade bolt hole, or
- Any cracks are visible, or
- Deep gouges in the blade's surface are present, or
- Gouges or chipped areas in the cutting edge are larger than 1/4"(8mm), or
- The material on the leading edge has been worn away by more than 1/4"(8mm)

DO NOT straighten, sharpen, weld or hard-face blades

Failure to replace worn or damaged blades may lead to catastrophic failure of the blades and ejection of the broken part with tremendous force which may cause serious bodily injury or death.



Always replace blades in sets

- Blades that are damaged may indicate severe service or abuse. If one blade is worn or damaged other blades on the same shaft will have been subjected to the same severe service or abuse.
- The Flail rotor turns at speeds exceeding 2000 RPM and is dynamically balanced at the factory. Differences in blade weight between used blades with loss of material from gouges or wear as compared to new blades can cause severe vibration and damage to the Flail rotor. Always replace blades as complete sets.

Boom

Maintenance Section 4-20

#### Blade Pins and D-Ring Inspection

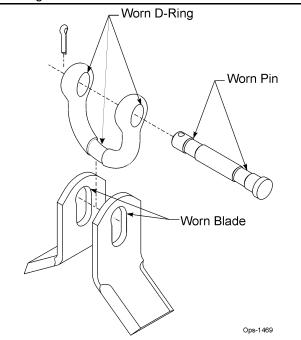
Inspect Blade Pins and D-Rings daily for wear or damage as follows:

🛦 DANG ER

Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

- Visible cracks or
- If a Pin or D-Ring has visible worn areas, or
- If a Pin or D-Ring has gouges or chipped areas

Failure to replace abnormally worn pins or D-Rings may lead to catastrophic failure and ejection of the broken part, which may cause serious bodily injury or death.



Always replace the pins and D-Rings whenever excessive wear is noticed.

#### Important

If the cotter pins are broken by contact with other flail blades, remove the pin and reverse the direction the pin is inserted through the D-Ring so that the cotter pin is on the opposite side of the D-Ring. This will prevent the next set of blades from swinging back and hitting the cotter pin. *ops-u-0045* 

Maintenance Section 4-21

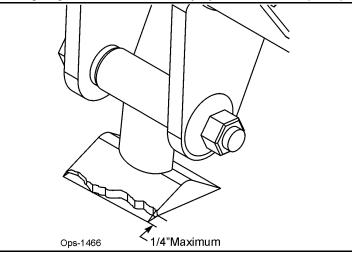
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#### Flail Axe Blades Inspection

A DANGER

Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

- Become bent or deformed from its original shape, or
- Oval shape wear inside the blade bolt hole, or
- Any cracks are visible, or
- Deep gouges in the blade's surface are present, or
- Gouges or chipped areas in the cutting edge are larger than 1/4"(8mm), or
- The material on the leading edge has been worn away by more than 1/4"(8mm)



Failure to replace worn or damaged blades may lead to catastrophic failure of the blades and ejection of the broken part with tremendous force which may cause serious bodily injury or death.

Always replace blades in sets

- Blades that are damaged may indicate severe service or abuse. If one blade is worn or damaged other blades on the same shaft will have been subjected to the same severe service or abuse.
- The Flail Axe rotor turns at speeds exceeding 2000 RPM and is dynamically balanced at the factory. Differences in blade weight between used blades with loss of material from gouges or wear, as compared to new blades, can cause severe vibration and damage to the Flail Axe rotor. Always replace blades as complete sets.

#### Important

Use only genuine Alamo Industrial replacement blades, blade bolts and fasteners. Other blades and bolts may not meet the requirements of Alamo Industrial and may fail during operation, resulting in the part failing and being thrown out from under the mower.

A CAUTION

Never attempt to sharpen blades. **OPS-U-0042** 

Boom

Maintenance Section 4-22

#### Flail Axe Blade Bolt Inspection

Inspect Blade Bolts daily for wear or damage as follows:

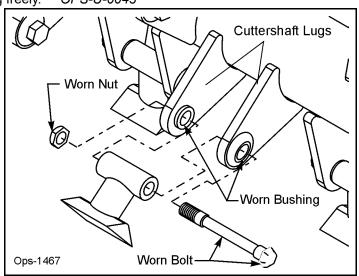
🛦 DANG ER

Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

- Visible cracks or
- If the blade bolt is worn or any recessed area is visible on the bolt, or
- If Blade Bolt has gouges or chipped areas. or
- If Bushing fits loose in the Rotor Shaft.

Failure to replace abnormally worn bolts or bushings may lead to catastrophic failure of the blades and ejection of the broken part, which may cause serious bodily injury or death.

Always replace Blade Bolts with new bolts and new bushings whenever replacing the Blades. To tighten bolts and nuts, first apply thread lock to nut. Make sure to tighten bolts and nuts just enough to allow the blades to swing freely and not bend the cuttershaft lugs. If cuttershaft lugs are bent together because of over tightening the blades will not swing freely. *OPS-U-0043* 



Maintenance Section 4-23

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Boom

#### 50" FLAIL KNIFE BLADE REPLACEMENT (Light Brush Grass)

- 1. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe knife can cause severe vibration and possible damage to the mower. The knife should <u>not</u> be welded on for any reason.
- 2. Always replace the knife bolts when replacing the knives. DO NOT REUSE THE KNIFE BOLTS OR NUTS.
- 3. Assemble knives, bushings, bolts and nuts as shown in Parts Section of the manual.
- 4. Install the locking hex nut so that the flat face of the nut is towards the knife.
- 5. Apply Loctite 271 or equivalent to threads.
- 6. Torque nut to 50 ft. lbs. Knife must swing freely.

AWARNING

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

#### 50" FLAIL KNIFE BLADE REPLACEMENT (Medium Brush Grass)

- 7. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe knife can cause severe vibration and possible damage to the mower. The knife should <u>not</u> be welded on for any reason.
- 8. Always replace the knife bolts when replacing the knives. DO NOT REUSE THE KNIFE BOLTS OR NUTS.
- 9. Assemble knives, bushings, bolts and nuts as shown in Parts Section of the manual.
- 10. Install the locking hex nut so that the flat face of the nut is towards the knife.
- 11. Apply Loctite 271 or equivalent to threads.
- 12. Torque nut to 120 ft. lbs. Knife must swing freely.

AWARNING

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

#### 50" FLAIL KNIFE BLADE REPLACEMENT (Heavy Duty Brush)

- 13. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe knife can cause severe vibration and possible damage to the mower. The knife should <u>not</u> be welded on for any reason.
- 14. Always replace the knife bolts when replacing the knives. DO NOT REUSE THE KNIFE BOLTS OR NUTS.
- 15. Assemble knives, bushings, bolts and nuts as shown in Parts Section of the manual.
- 16. Install the locking hex nut so that the flat face of the nut is towards the knife.
- 17. Apply Loctite 271 or equivalent to threads.
- 18. Torque nut to 176 ft. lbs. Knife must swing freely.

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

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#### 63" BOOM FLAIL KNIFE REPLACEMENT

- 1. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower.
- 2. Assemble knives, clevis, bolts and nuts as shown in part section of manual.
- 3. Install locking hex nut so that the flat face of nut is towards the knife.
- 4. Apply Loctite 271 or equivalent to threads.
- 5. Torque nut to 35 FT. LBS. Knife must swing freely.

#### **A**WARN IN G

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

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

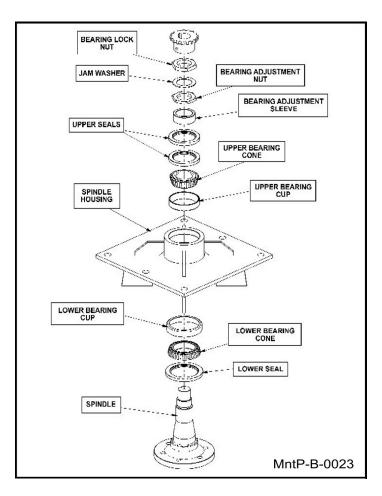
Be sure to wear eye protection and other protective equipment as needed when working on spindle assembly.

Boom

Maintenance Section 4-25

#### THE SPINDLE ASSEMBLY

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



MAINTENANCE

Boom

Maintenance Section 4-26

#### **BEARING INSTALLATION**

- 1. Press upper bearing cup into the spindle housing.
- 2. Turn the spindle housing over and press in the lower bearing cup.
- 3. Place the lower bearing cone in the bearing cup. Next press the seal into the spindle housing. The inner lip of the seal must be DOWN, towards the bearing, so lubricant is sealed inside the housing.
- 4. Install the spindle in the housing. Lightly press the spindle to seat the cone onto the spindle.
- 5. Support the bottom of the spindle and press the upper bearing cone and bearing adjustment sleeve onto the spindle.
- 6. NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.
- 7. Press the two upper seals into the spindle housing. The inner lip of the seals must be UP, away from the bearing, so excess lubricant can escape.
- 8. Install the bearing adjustment nut (thin nut) so there is 1-1/6" clearance between the nut and the sleeve. Install the jam washer, placing the tab into the key-way. Install the bearing lock nut (thin nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.
- 9. Position the spindle housing horizontally with the drain hole oriented "up". Grease through the zerk with Tiger Spindle Lubricant (part number 06540000) until the grease purges from the drain hole.
- 10. Install the plug into the drain hole.

#### **BEARING ADJUSTMENT**

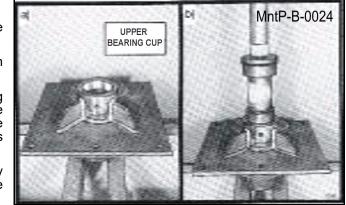
- 1. Clamp the bottom end of the spindle securely in a vise so the spindle housing turns freely.
- 2. Position a magnetic base dial indicator on the outer diameter of the spindle housing. Locate the end of the dial indicator against the flat end of the spindle shaft. The dial indicator will now measure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

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

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

Boom

Maintenance Section 4-27



#### **Boom Cylinder Removal and Replacement Instructions**

- 1. Clear the area of all personnel before lowering the boom mower head.
- 2. From the tractor seat with your seat belt fastened around you, lower the boom mower head to the ground. Extend the boom to the furthest reach and lower the mower head flat on the ground. DO NOT attempt to replace the cylinders with the boom in the raised or transport position.
- 3. Shut off the tractor, engage the parking brake, place the tractor transmission in the park position, and remove the key before dismounting.
- 4. Allow the system to cool to room temperature before removing any hydraulic components
- 5. Wear safety glasses and impenetrable gloves when working with hydraulic hoses and fittings.
- 6. Release all oil pressure from the hydraulic circuit by manually stroking each valve section with the tractor engine off. Utilize the manual override function if the unit is equipped with an electric over hydraulic valve.
- 7. Utilize blocks, jack stands or a suitable over head hoist to support the weight of the boom section and remove pressure form the cylinder mounting pins.
- 8. Check to see that the cylinder to be replaced is not under pressure by moving the cylinder pins by hand. The pins should be loose and should slide from the pin bore easily. If the pins are tight and cannot be moved, the cylinder may be under pressure. Make sure the boom components are properly supported and that the pressure is relived from the circuit.
- 9. Cylinder assemblies are heavy and can fall when the pins are removed. Support the hydraulic cylinder with a suitable hoist or jack.
- 10. Slowly loosen the hydraulic connections to the cylinder. Carefully unscrew hose fitting and allow any remaining pressure to bleed off. **Use extreme care.** Oil must be cool, and the technician should stand to the side to prevent exposure to any hydraulic oil. Always consult the Material Safety Data Sheet and wear any required Personal Protective Equipment. A catch pan may be required to retain any spilled oil.
- 11. Cap both ends of the fitting with suitably sized metal caps.
- 12. Remove the cylinder pins starting with the ROD end cylinder pin. Make sure the cylinder is properly supported, and remove the base end cylinder pin. The cylinder may be heavy-- use proper lifting techniques to lift and handle the cylinder. If needed, get assistance from another person to safely lift the cylinder from the machine.
- 13. Measure the distance between the cylinder pin holes and extend the new cylinder the correct length prior to attempting an installation.
- 14. Install the new cylinder in place and install both cylinder pins and retaining hardware.
- 15. Remove the metal caps and re-install the hydraulic hoses.
- 16. Check the hydraulic reservoir of the boom mower to ensure there is sufficient oil. Follow the manufactures recommendations for proper oil type and filtering techniques and requirements to add oil to the system.
- 17. Clear the area of all persons prior to starting the tractor.
- 18. Consult the Operator's Manual for instructions in regard to the proper operating procedure.
- 19. From the tractor seat, with the seat belt fastened, operate the boom to ensure proper operation of the boom function.
- 20. From the tractor seat, with the seat belt fastened, operate the boom controls to fully extend and retract the new cylinder several times to purge any trapped air from the system.
- 21. From the tractor seat, with the seat belt fastened, look for signs of an oil leak. If an oil leak is observed, shut the tractor down and follow the steps to remove pressure from the hydraulic circuit. Identify the source of the leak and resolve the issue.
- 22. Upon completion of the required repairs return to Step # 16 to recheck the cylinder for proper operation.

Maintenance Section 4-28

### **CUTTERSHAFT BEARING REPLACEMENT**

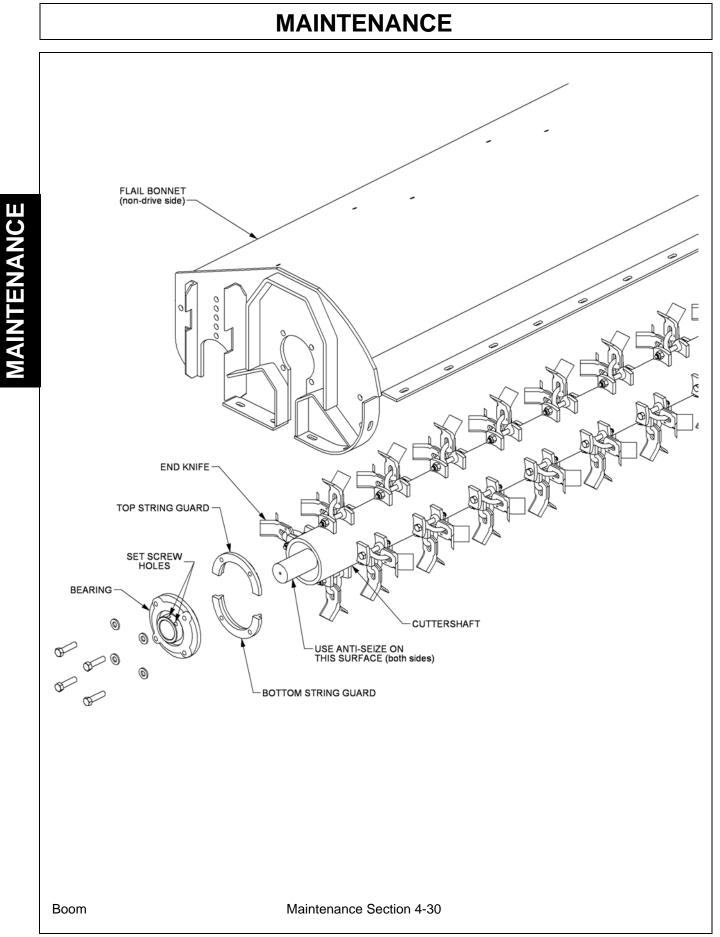
- 1. Remove existing cuttershaft, bearings and string guards.
- 2. Make sure that the end knives on each end of the cuttershaft are oriented as shown.
- 3. Apply anti-seize on cuttershaft as shown on next page.
- 4. Before installation the bearings must be fully greased per the following protocol: 1.Add 2 or 3 pumps of grease, 2. Spin the bearing 2 or 3 times. 3. Add 2 or 3 pumps of grease. 4. Spin the bearing 2 or 3 times. 5. Add 2 or three pumps of grease. Continue this procedure until you can visually confirm that grease is purging from the entire circumfrence of the seal.
- 5. Install non-drive side bearing first.
- 6. Install the top of the string guard on the non-drive side first. Use Loctite 271 or equivalent and torque (95 ft-lb or 104ft-lb if you use an extension).
- 7. Install the bearing and top string guard on the drive side.
- 8. Center the cuttershaft between the string guards. Use Loctite 271 or equivalent and torque (95ft-lb or 104ft-lb if you use an extension) the top string guard on the drive side.
- 9. Install, use Loctite 271 or equivalent, and torque (95ft-lb or 104ft-lb if you use an extension) the bottom string guard on both sides.
- 10. Make sure the cuttershaft is centered. On the non-drive side, tighten one set-screw in the bearing onto the cuttershaft.
- 11. Remove the other set screw and drill a 5/16" hole into the cuttershaft 3/16" deep through the hole in the bearing. BE CAREFUL NOT TO DAMAGE THE THREADS IN THE BEARING HOLE.
- 12. Replace the set screw in the bearing, use Loctite 271 or equivalent, and tighten onto the cuttershaft through the new hole.
- 13. Remove the other set screw and repeat the drilling procedure (Step 10). Replace the set screw as stated in Step 11.
- 14. Repeat steps 9 through 12 on the drive side.

#### See illustration on next page

Boom

Maintenance Section 4-29

**MAINTENANCE** 



### **GROUND ROLLER BEARING REPLACEMENT**

- 1. Remove existing ground roller brackets, bearings, and ground roller.
- 2. Remove bearings from stub shafts and ground roller brackets.
- 3. Clean stub shafts thoroughly, and apply anti-seize to O.D. of outer end.
- 4. Before installation, bearings must be fully greased per the following protocol: 1.Add 2 or 3 pumps of grease, 2. Spin the bearing 2 to 3 times. 3. Add 2 or 3 pumps of grease. 4. Spin the bearing 2 to 3 times. 5. Add 2 or 3 pumps of grease. Continue this procedure until you can visually confirm that grease is purging from the entire circumference of the seal.
- 5. Install bearing onto ground roller brackets using existing hardware and Loctite 271.
- 6. Slide bearing-ground roller bracket assemblies onto stub shafts of ground roller.
- 7. Install ground roller brackets onto flail bonnet using existing hardware.
- 8. Insure that ground roller brackets are set to the same elevation on both sides.
- 9. Center ground roller in bearings.
- 10. Tighten one setscrew in one bearing onto stub shaft of ground roller.
- 11. At the other end, remove the setscrew collar and drill 5/16" holes in both setscrew locations into the stub shaft 3/16" dear (or align setscrew holes in bearing collar with existing countersinks in stub shaft.
- 12. Reinstall setscrew collar on drilled-end. Remove both setscrews, apply Loctite 271 or equivalent, and tighten setscrews into stub shaft.
- 13. Then remove setscrew collar from other end, and repeat the drilling procedure from Step 11. Reinstall setscrew collar and install setscrews per Step 12.

#### See illustrations in the Common Parts Section.

Boom

Maintenance Section 4-31

DAILY MAINTENANCE SCHEDULE	
The following services should be performed daily or every 8 hours of service, following maintenance instructions in the operator's manual.	he detailed
Pump driveshaft: If required with drive shaft/coupler check for end play and lubricate at z	erks.
Crankshaft adapter: If equipped with rubber grommets check condition, replace if missin	g or
damaged.	
Pivot points: Inject grease until it appears at ends.	
Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or rep immediately.	lace hoses
Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.	
Belts: Check/tighten/replace belts as needed.	
Mainframe/deck: Unless otherwise specified retorque bolts according to torque specifica section.	ations in this
Hydraulic fluid level: Add, if required, per fluid recommendations.	
Rear flail drive, bearing flange and shaft couplers: Grease as instructed in the detailed r section.	naintenance
Cuttershaft and ground roller: Grease as instructed in the detailed maintenance section.	
Maintenance Section **This page may be copied and used as part of the daily maintenance routine.	
Boom Maintenance Section 4-32	

Maintenance Section 4-32

# **D5 F HG SECTION**

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#### PARTS ORDERING GUIDE

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

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

2. The Purchase Order must indicate the **Name and Address** of the person or organization ordering the parts, **who should be charged**, and **if** possible, the **serial number of the machine** for which the parts are being ordered.

3. The purchase order must clearly list the **quantity of each part**, the complete and correct **part number**, and the basic **name of the part**.

4. The manufacturer reserves the right to substitute parts where applicable.

5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.

6. The manufacturer reserves the right to change prices without prior notice.

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



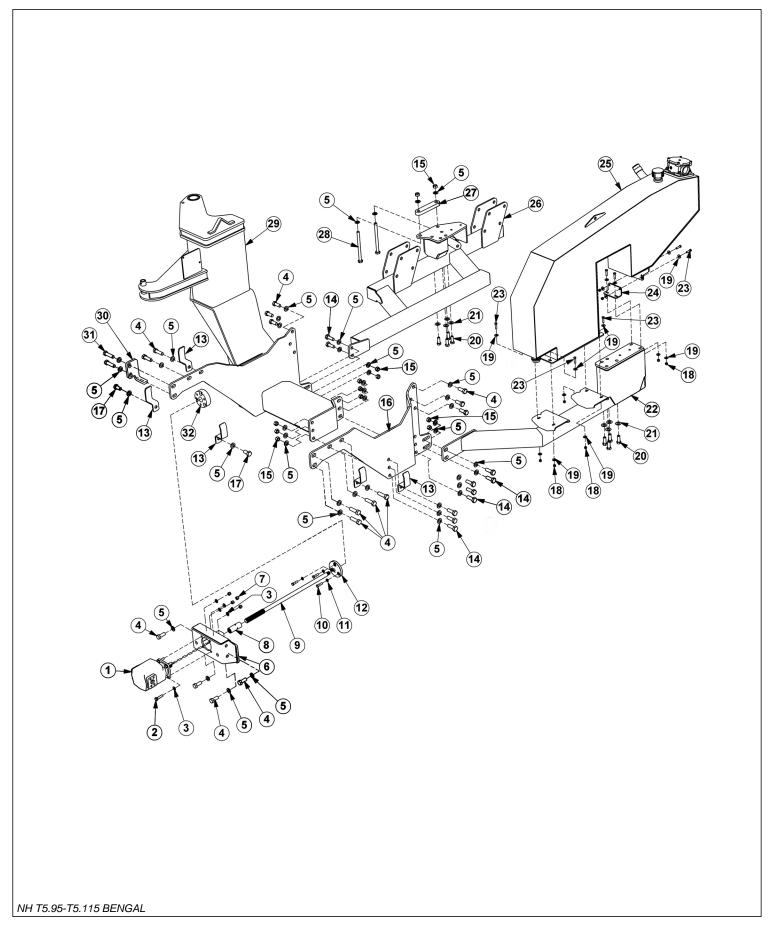
For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

#### Tiger Corporation

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

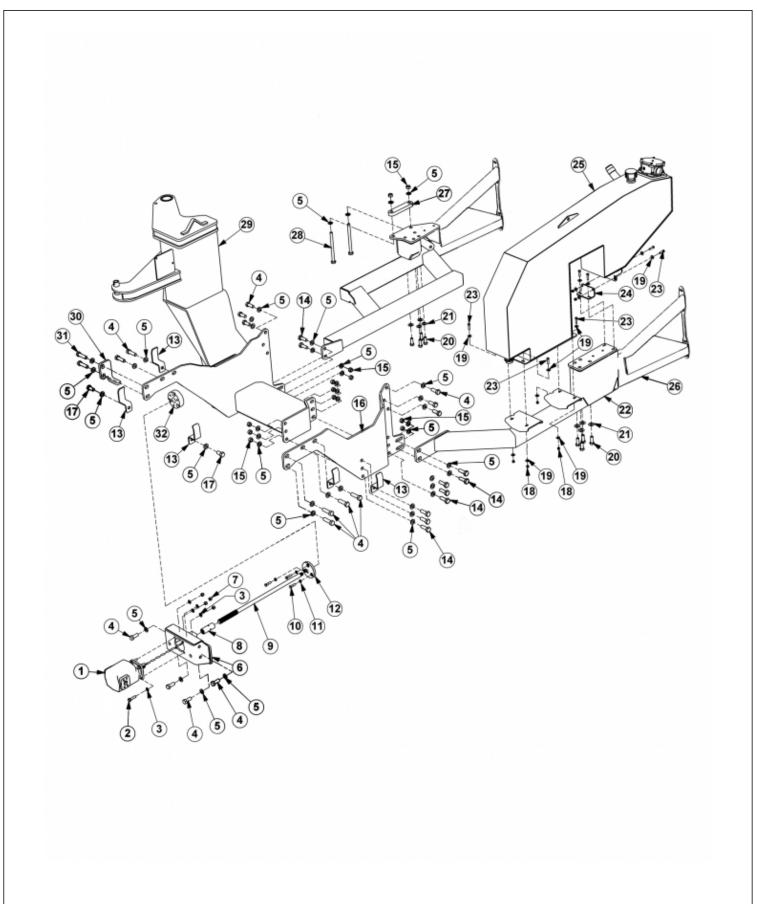
#### TRACTOR MOUNT KIT



#### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	23152	1	PUMP,P350-1 3/4" GEAR
2	21733	4	CAPSCREW,1/2" X 2", NC
3	06533004	8	FLATWASHER,1/2",SAE,GR 8
4	31731	8	CAPSCREW,20MM X 50MM,(2.5),10.9
5	33880	44	FLATWASHER,3/4",GR 8,SAE
6	06380076	1	MNT,PUMP,NHT5.115
7	21727	4	NYLOCK NUT,1/2", NC
8	6T0375B	1	COUPLING,14 SPLINE,W/ZERK
9	06420174	1	DRV SHFT,32.63,LH,T5.115
10	6T2508	3	CAPSCREW,12MM X 45MM(1.25 PITCH)
11	27724	3	LOCKWASHER,12MM
12	06700043	1	ADPTR,DRV SHFT,KUB,ASSY
13	32382	5	BRACKET,HOSE
14	21833	10	CAPSCREW,3/4" X 2-1/4", NC
15	21825	10	HEX NUT,3/4", NC
16	06412229	1	UPRIGHT,LH,T5.115
17	24860	2	CAPSCREW,20MMX40MM(2.5P)10.9
18	21627	8	NYLOCK NUT,3/8", NC
19	22016	16	FLATWASHER,3/8",GR8
20	06530531	8	CAPSCREW,18MM X 50MM(1.5P)GR10.9
21	06533005	8	FLATWASHER,18MM,GR10.9
22	06300353	1	AXL BRC,LH,NH T5.115
23	21632	8	CAPSCREW,3/8" X 1-1/2", NC
24	06412268	1	MNT,06380077
25	06700206	1	TANK,RES,ASSY,T5.115
26	06300352	1	AXL BRC,RH,NH T5.115,SC
27	06402514	1	BAR,AXLE BRC
28	21847	2	CAPSCREW,3/4" X 10", NC
29	06300350	1	MNFRM,NH T5.115
30	06412287	1	STOP.OSS,RH,T5.115
31	24879	2	CAPSCREW,20MM X 65MM2.5P,GR10.9
32	06420091	1	SPACER, DRV SHFT, NHT4.85

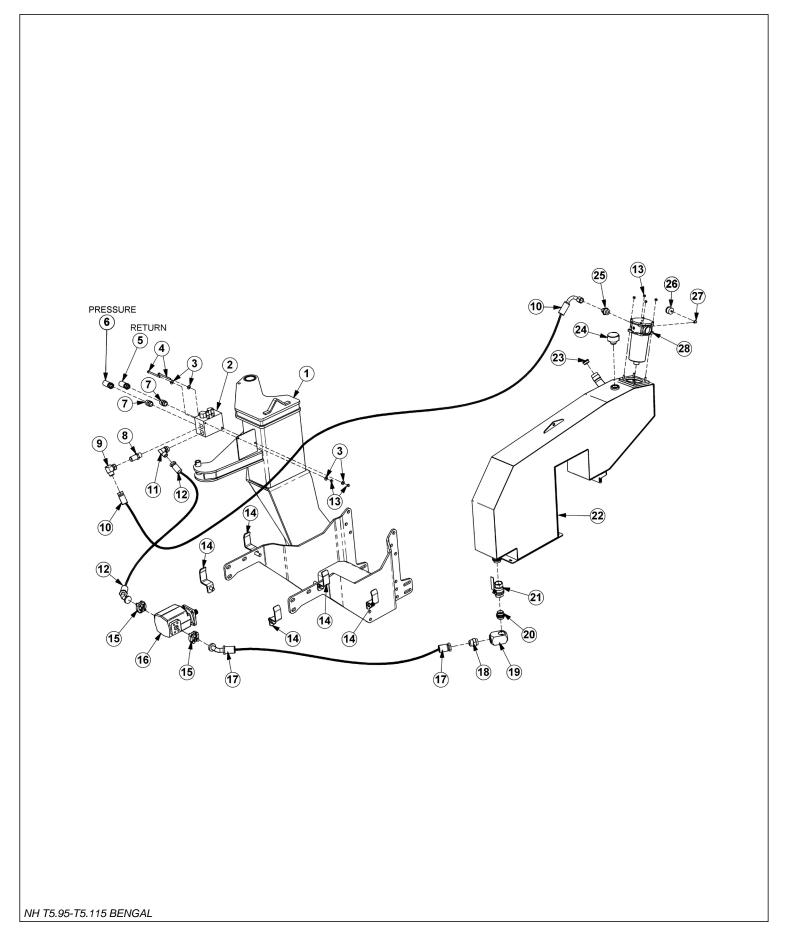
#### TRACTOR MOUNT KIT - OPEN STOW



NH T5.95-T5.115 BENGAL

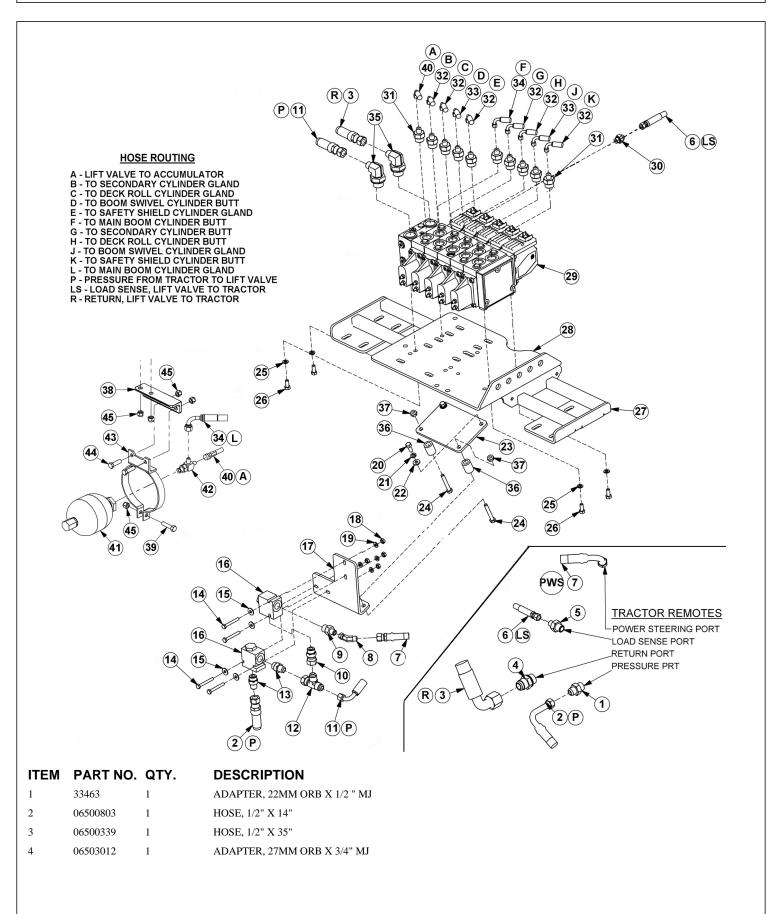
ITEM	PART NO.	QTY.	DESCRIPTION
1	23152	1	PUMP,P350-1 3/4" GEAR
2	21733	4	CAPSCREW,1/2" X 2", NC
3	06533004	8	FLATWASHER,1/2",SAE,GR 8
4	31731	8	CAPSCREW,20MM X 50MM,(2.5),10.9
5	33880	44	FLATWASHER,3/4",GR 8,SAE
6	06380076	1	MNT,PUMP,NHT5.115
7	21727	4	NYLOCK NUT,1/2", NC
8	6T0375B	1	COUPLING,14 SPLINE,W/ZERK
9	06420174	1	DRV SHFT,32.63,LH,T5.115
10	6T2508	3	CAPSCREW,12MM X 45MM(1.25 PITCH)
11	27724	3	LOCKWASHER,12MM
12	06700043	1	ADPTR,DRV SHFT,KUB,ASSY
13	32382	5	BRACKET,HOSE
14	21833	10	CAPSCREW,3/4" X 2-1/4", NC
15	21825	10	HEX NUT,3/4", NC
16	06412229	1	UPRIGHT,LH,T5.115
17	24860	2	CAPSCREW,20MMX40MM(2.5P)10.9
18	21627	8	NYLOCK NUT,3/8", NC
19	22016	16	FLATWASHER,3/8",GR8
20	06530531	8	CAPSCREW,18MM X 50MM(1.5P)GR10.9
21	06533005	8	FLATWASHER,18MM,GR10.9
22	06300465	1	AXL BRC,LH,NH T5.115, OS
23	21632	8	CAPSCREW,3/8" X 1-1/2", NC
24	06412268	1	MNT,06380077
25	06700206	1	TANK,RES,ASSY,T5.115
26	06300466	1	AXL BRC,RH,NH T5.115,OS
27	06402514	1	BAR,AXLE BRC
28	21847	2	CAPSCREW,3/4" X 10", NC
29	06300350	1	MNFRM,NH T5.115
30	06412287	1	STOP.OSS,RH,T5.115
31	24879	2	CAPSCREW,20MM X 65MM2.5P,GR10.9
32	06420091	1	SPACER, DRV SHFT, NHT4.85

### TRACTOR MOUNT KIT-HYDRAULICS



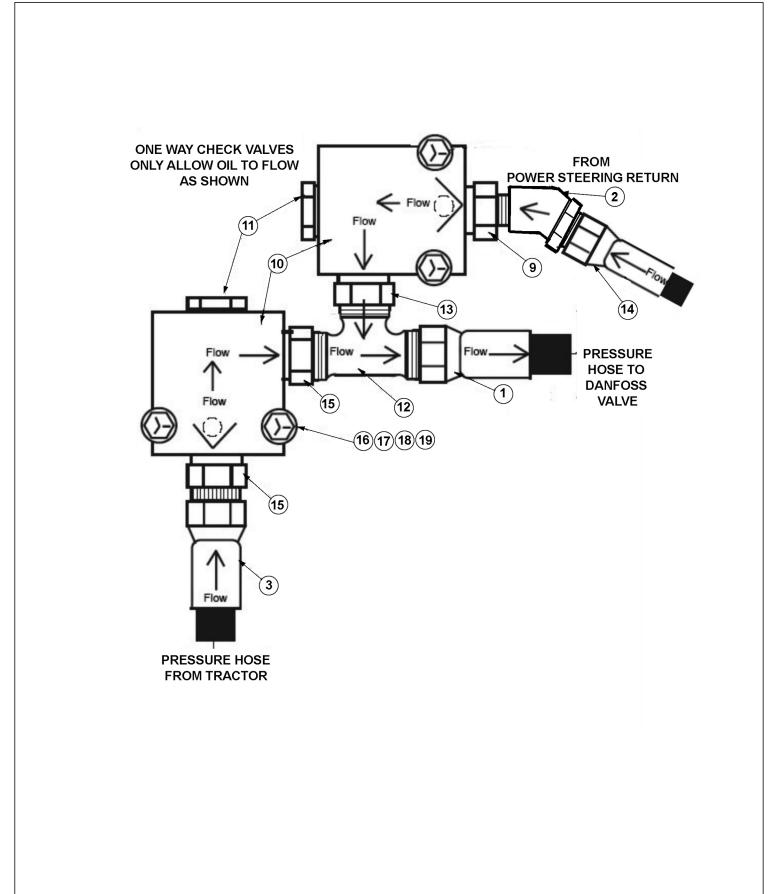
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAINFRAME*REFER TO TRACTOR MOUNT KIT*
2	06510083	1	VALVE,BRAKE,SOL,3000PSI
3	22016	4	FLATWASHER,3/8",GR8
4	21644	2	CAPSCREW,3/8" X 5", NC
5	06500754	1	HOSE ,1" X 105" (RETURN FROM HEAD)
6	06500753	1	HOSE, 1" X 103" (PRESSURE TO HEAD)
7	33555	2	ADAPTER,1"MB X 1"MJ
8	32869	1	NIPPLE,MALE LONG,1" MOR X 1"MJ
9	33259	1	ELBOW,1"MJ X 1"FJX 90°
10	06500700	1	HOSE,1" X 180"
11	34117	1	ELBOW,1"MB X 1"MJ,FORGED
12	06500274	1	HOSE,1" X 74"
13	21627	6	NYLOCK NUT,3/8", NC
14		-	BRACKET,HOSE*REFER TO TRACTOR MOUNT KIT*
15	TF4852	2	KIT,FLANGE,#20
16	23152	1	PUMP
17	06500802	1	HOSE,1 1/2" X 107"
18	34710	1	ADAPTER,1 1/2" ORB X 1 1/2" MJ
19	06503084	1	ELBOW,1 1/2" FB X 1 1/2" FB
20	06503083	1	ADAPTER,1 1/2" ORB X 1 1/2" ORB
21	34309	1	BALL VALVE,1 1/2" FOR
22		-	HYDRAULIC TANK*REFER TO TRACTOR MOUNT KIT*
23	06505127	1	PLUG,SAE 3/4"
24	06505077	1	CAP,BREATHER,O-RING
25	34064	1	ADAPTER,1 1/4MOR X 1MJ
26	6T0649	1	FILTER GAUGE
27	TF4888	1	STREET ELBOW,1/8 X 90
28	06505044	1	FLTR ASSY, IN-TANK CPLT, SAE10MP

### ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT



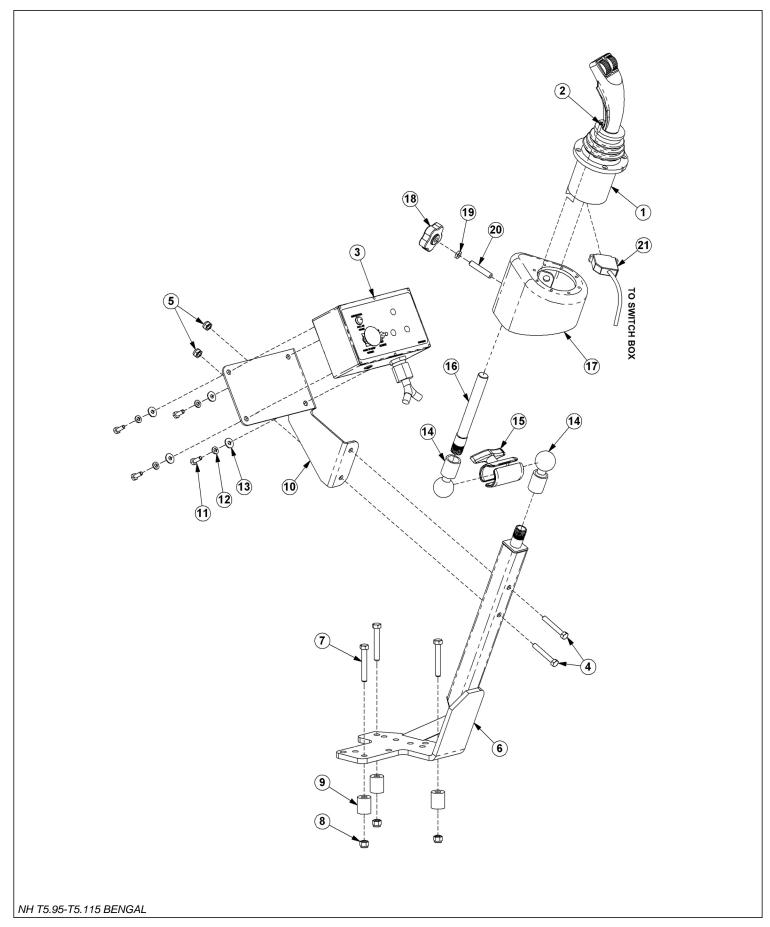
ITEM	PART NO.	QTY.	DESCRIPTION
5	06503002	1	ADAPTER, 12MM MB X 5/16" MJ
6	06500400	1	HOSE, 1/4` X 34"
7	06500804	1	HOSE, 3/8" X 62"
8	06503172	1	ELBOW, 3/8 "MJ X 3/8" FJX X 45°
9	33271	1	ADAPTER, 1/2" MOR X 3/8" MJ
10	06503019	1	ADAPTER, 1/2" MB X 1/2" FJX
11	06500122	1	HOSE, 3/8" X 30"
12	6T3992	1	RUN TEE, 1/2" MJ X 1/2" FJX X 1/2" MJ
13	33528	2	ADAPTER, 1/2" MB X 1/2" MJ
14	21534	4	CAPSCREW, 1/4" X 2", NC
15	22014	8	FLATWASHER, 1/4"
16		-	*SEE HYDRAULIC CHECK VALVE PAGE*
17	06410171	1	PLATE,MNT,VLV,TSA
18	21525	6	HEX NUT, 1/4", NC
19	21986	4	LOCKWASHER, 1/4"
20	27508	2	CAPSCREW, 8MM X 20MM (1.25)
21	6T2619	2	LOCKWASHER, 8MM
22	34948	2	FLATWASHER, 8MM
23	06402606	1	ADAPTOR PLATE, MNT, VLV, T5.115
24	21530	2	CAPSCREW, 1/4" X 1", NC
25	21987	4	LOCKWASHER, 5/16"
26	21579	4	CAPSCREW, 5/16" X 3/4", NC
27		-	*SEE LIFT VLV MNT TO AXLE BRC PAGE*
28		-	*SEE LIFT VLV MNT TO AXLE BRC PAGE*
29	06502165	1	VLV,5SP,DF,PVEA,WILDKAT,CNBS
30	33392	1	ADAPTER, 5/16" MB X 3/8" MJ
31	32807	10	ADAPTER, 5/8" MB X 3/8" MJ
32	06500687	6	HOSE, 1/4" X 268"
33	06500697	2	HOSE, 1/4" X 210"
34	06500688	2	HOSE, 1/4" X 288"
35	33294	2	ELBOW, 3/4" MB X 1/2" MJ
36	27082B	2	SPACER
37	21577	4	NYLOCK NUT, 5/16" NC
38	06460072	1	BRACKET
39	21632	1	CAPSCREW, 3/8" X 1-1/2" NC
40	06500400	1	HOSE, 1/4" X 34"
41	24300	1	ACCUMULATOR
42	06503029	1	TEE, RUN
43	23888	1	BRKT, ACCUMULATOR
44	21631	4	CAPSCREW, 3/8" X 1-1/4" NC
45	21627	4	NYLOCK NUT, 3/8" NC

### CHECK VALVES



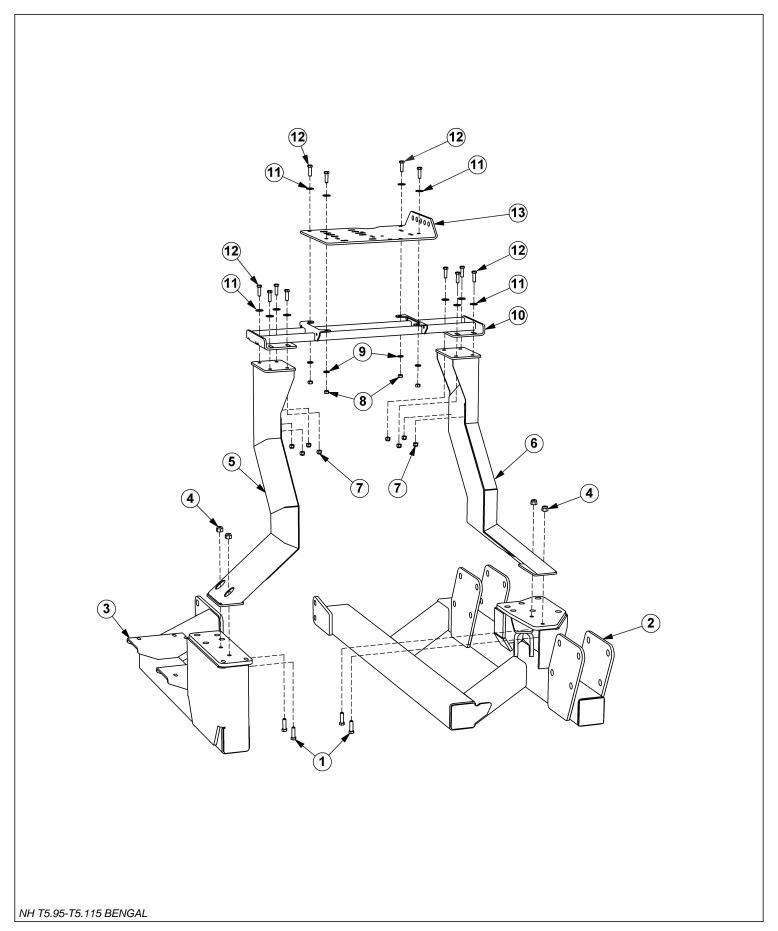
ITEM	PART NO.	QTY.	DESCRIPTION
1	06500122	1	HOSE, 1/2" X 30"
2	06503172	1	ELBOW, 3/8" MB X 3/8" MJ
3	06500803	1	HOSE, 1/2" X 14"
9	33271	1	ADAPTER
10	06502005	2	VALVE RELIEF BODY
11	06502006	2	CHECK VALVE CARTRIDGE
12	6T3992	1	ADAPTER, TEE
13	06503019	1	ADAPTER
14	06500804	1	HOSE, 3/8" X 62"
15	33528	2	ADAPTER
16	21534	4	BOLT
17	21525	4	NUT
18	22014	4	FLATWASHER
19	21986	4	LOCKWASHER

### JOYSTICK AND SWITCHBOX MOUNT



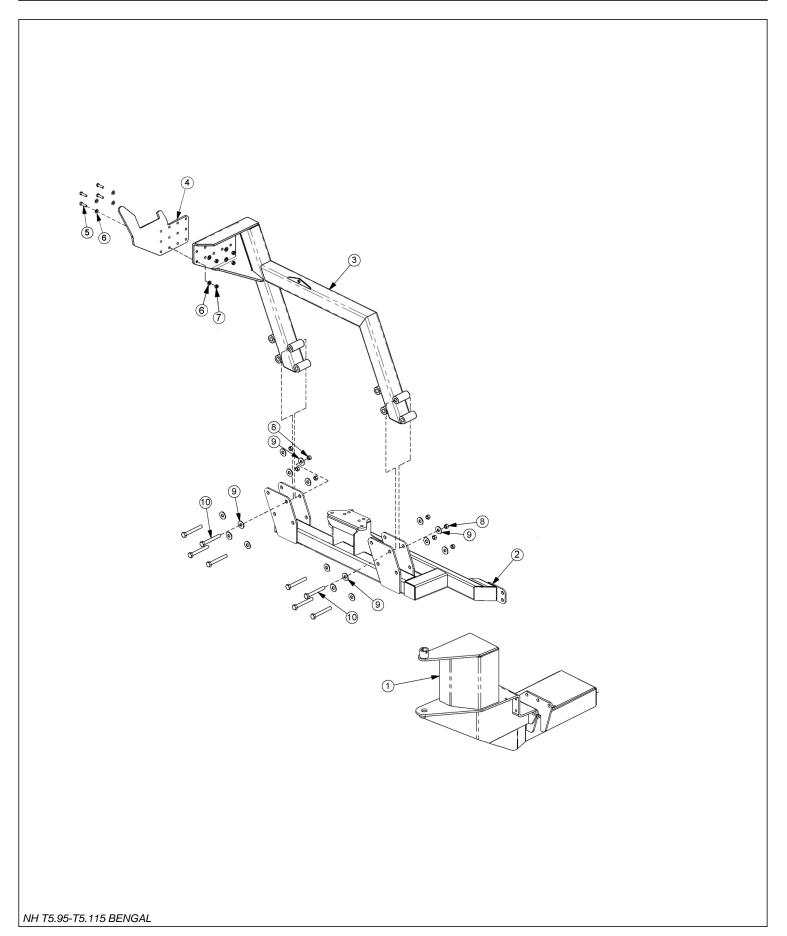
ITEM	PART NO.	QTY.	DESCRIPTION
1	33691	1	JOYSTICK
2	32829	4	SCREW, MACHINE, 10-32 X 3/4", FLATHD
3	06510196	1	SWITCH BOX,DF,SS,OS
4	21585	2	CAPSCREW,5/16" X 2-1/4",NC
5	21577	2	NYLOCK NUT,5/16",NC
6	06340011	1	MNT,STND,JOYSTICK
7	21639	3	CAPSCREW,3/8" X 3-1/4",NC
8	21627	3	NYLOCK NUT,3/8",NC
9	41794	3	SPACER
10	06340015	1	SWITCH BOX MNT
11	21529	4	CAPSCREW,1/4" X 3/4",NC
12	21986	4	LOCKWASHER,1/4"
13	22014	4	FLATWASHER,1/4"
14	06520041	2	MOUNT,RAM,BALL,1-1/2"
15	06520020	1	MOUNT,RAM,ARM
16	06340010	1	ROD,1/2"NPT X 7"
17	35033	1	CAN, JOYSTICK, ASSY
18	35204	1	KNOB,3/8",NC,INSERT
19	35206	1	HEX NUT,JAMB,3/8",NC
20	35205	1	SETSCREW,3/8" X 2",NC,KNURLED
21	33693	1	CBL,EXT,4FT,JOYSTICK

### AXLE BRACES TO LIFT VALVE



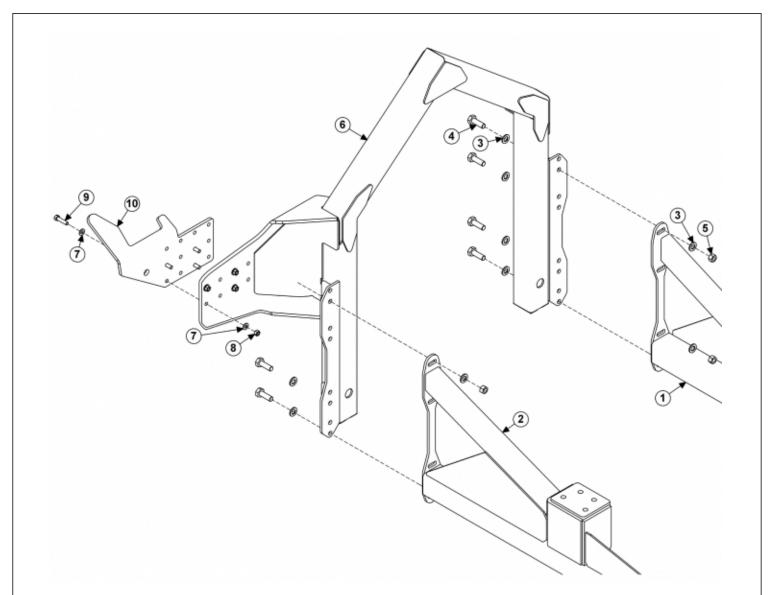
ITEM	PART NO.	QTY.	DESCRIPTION
1	21681	4	CAPSCREW, 7/16" X 1-1/2", NC
2		-	*SEE TRACTOR MOUNT PAGE*
3		-	*SEE TRACTOR MOUNT PAGE*
4	21727	4	NYLOCK NUT, 1/2", NC
5	06340054	1	VLV MNT, RH, T5.115
6	06340053	1	VLV MNT, LH, T5.115
7	21627	8	NYLOCK NUT, 3/8", NC
8	21625	4	HEX NUT, 3/8", NC
9	21988	4	LOCKWASHER, 3/8"
10	06340055	1	VLV MNT, T5.115
11	22016	12	FLATWASHER, 3/8", GR8
12	21631	12	CAPSCREW, 3/8" X 1 1/4" , NC, GR8
13	34622	1	PLATE, VALVE, REAR MNT

### SINGLE COLUMN BOOMREST



ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAINFRAME *REFER TO TRACTOR MOUNT KIT*
2		-	AXLE BRACE, RH *REFER TO TRACTOR MOUNT KIT*
3	06310074	1	BOOMREST,SINGLE COLUMN
4	06410968	1	SADDLE
5	21725	4	HEX NUT,1/2",NC
6	06533004	8	FLATWASHER,1/2",SAE
7	21733	4	CAPSCREW, 1/2" X 2", NC
8	21825	8	HEX NUT,3/4",NC
9	22021	16	FLATWASHER,3/4"
10	21843	8	CAPSCREW,3/4" X 6",NC

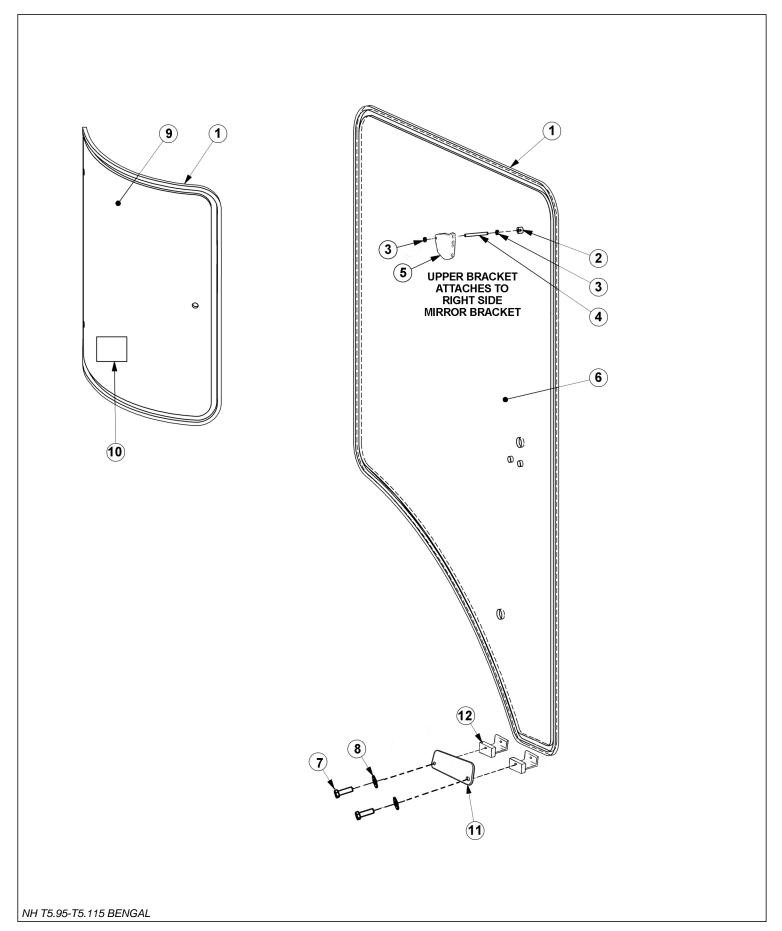
### **BOOMREST - OPEN STOW**



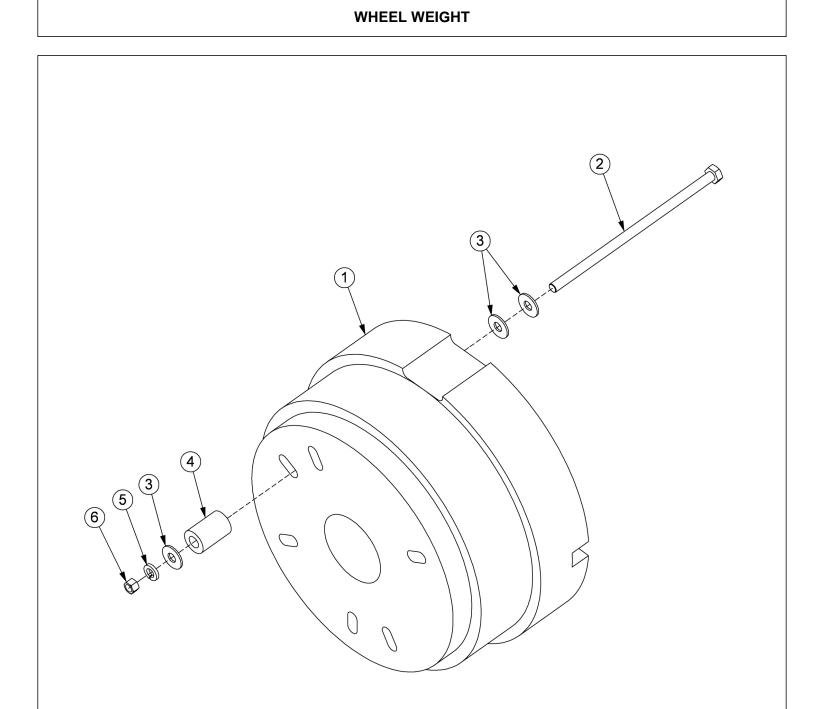
ITEM	PART NO.	QTY.	DESCRIPTION
1	06300465	1	AXLE BRACE, LH
2	06300466	1	AXLE BRACE, RH
3	33880	16	FLATWASHER, 3/4" GR8, SAE
4	21833	8	CAPSCREW, 3/4" X 2-1/4" NC
5	21825	8	HEX NUT, 3/4" NC
6	06310157	1	BOOMREST, OS, T4
7	06533004	8	FLATWASHER, 1/2" GR8, SAE
8	21725	4	HEX NUT, 1/2" NC
9	21733	4	CAPSCREW, 1/2" X 2" NC
10	06411166	1	SADDLE, T4, BENGAL

# NOTES

### POLYCARBONATE SAFETY WINDOW



ITEM	PART NO.	QTY.	DESCRIPTION
1	31965	23	TRIMLOCK (IN FEET)
2	33477	1	ISOLATOR
3	21575	2	HEXT NUT, 5/16", NC
4	33478	1	ROD, THREADED 5/16" X 3"
5	06410396	1	BRACKET, TOP, SAFETY SCREEN
6	06490051	1	POLYCARBONATE, DOOR, RH
7	23113	2	CAPSCREW, 10MM X 30MM
8	22016	2	FLATWASHER, 3/8"
9	06490052	1	POLYCARBONATE, REAR, T95-115
10	22645	1	DECAL
11	06402536	1	BRACKET, LOWER, SFTY SCRN T4.85
12	06330045	2	MOUNT, SFTY SCRN, LWR, T5 115



ITEM	PART NO.	QTY.
	000000000	

### DESCRIPTION

WHEEL WEIGHT, UNIVERSAL 

CAPSCREW,3/4" X 17",NC FLATWASHER,3/4",USS SPACER,2"

LOCKWASHER,3/4"

HEX NUT,3/4",NC

# PARTS SECTION

## NOTES

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### PARTS ORDERING GUIDE

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

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

2. The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.

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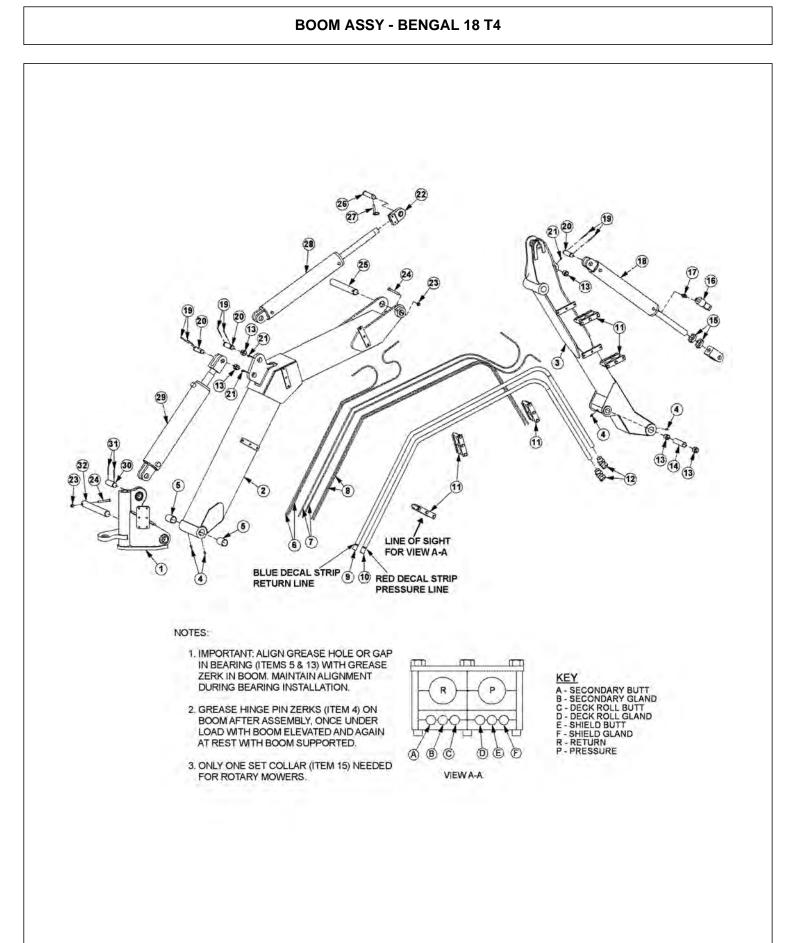


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Direct any questions regarding parts to:

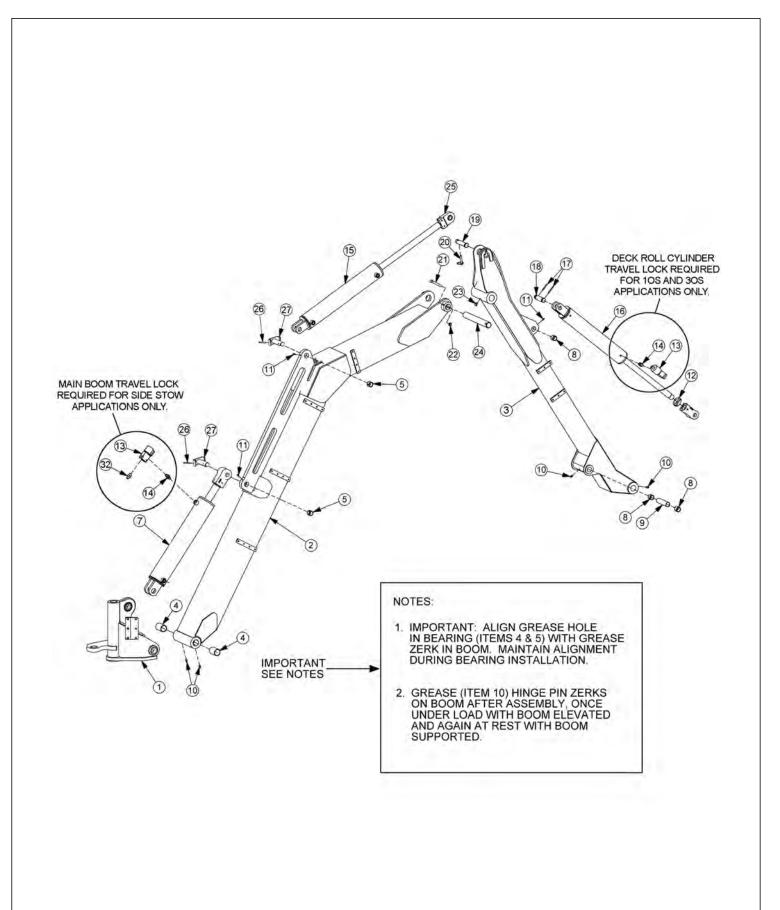
### **Tiger Corporation**

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



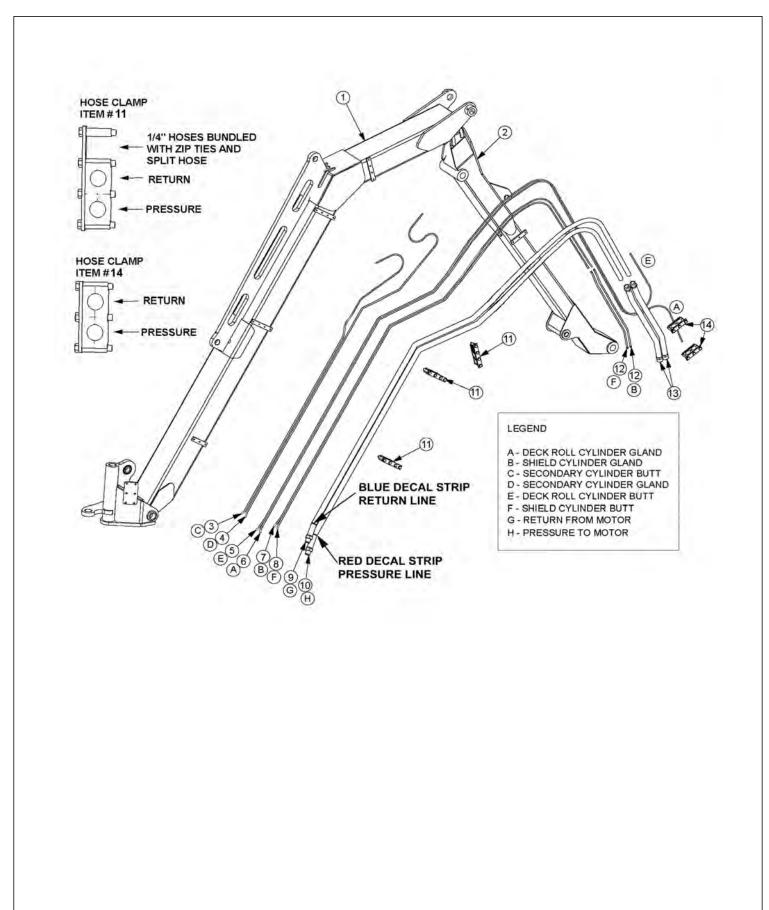
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	REAR STOW SWIVEL ASSY
2	06700167	-	MAIN BOOM ASSY
	06310111	1	MAIN BOOM WELDMENT
3	06700168	-	SECONDARY BOOM ASSY
	06310112	1	SECONDARY BOOM WELDMENT
4	6T3211	4	GREASE ZERK,1/8"
5	32321	2	BEARING, DX, 1-1/2" X 2"
6	06500499	2	HOSE,1/4" X 50"
7	06500500	2	HOSE,1/4" 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



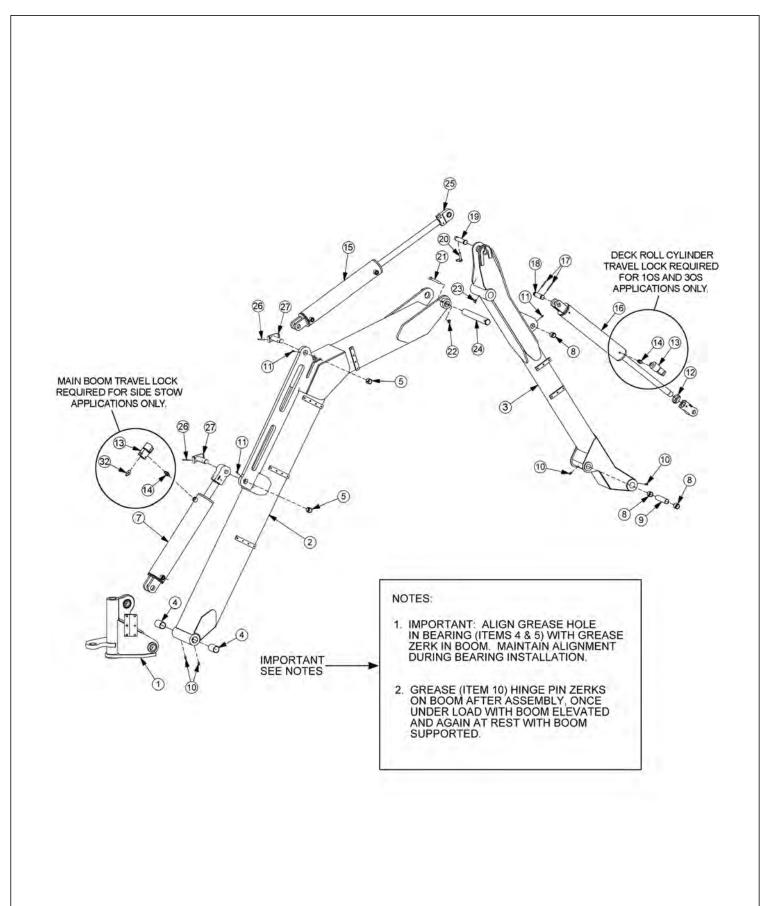
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700189	1	MAIN BOOM, T4
3	24517	1	SECONDARY BOOM ARM ASSY
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB1044	2	BUSHING, 1-1/4"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
10	6T3211	4	GREASE 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
24 25 26	TB1025 30172 6T3014	1 1 2	PIN,1-1/2" X 12" CLEVIS,SPHERICAL ROLL PIN, 1/4" X 2"

### **BOOM ASSY HYD BENGAL 22 T4**



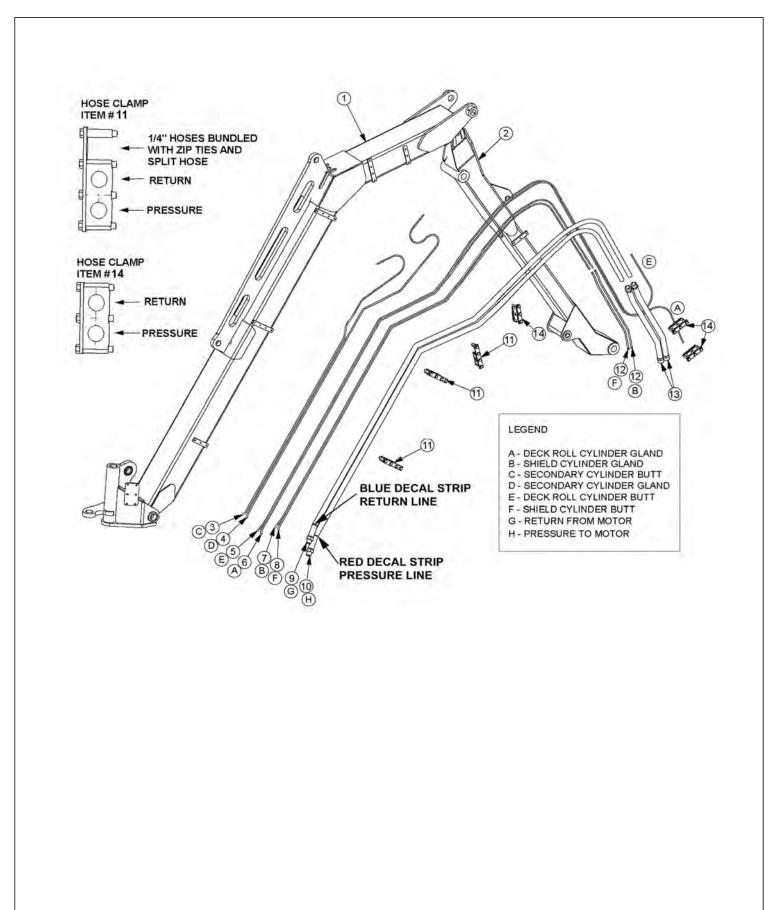
ITEM	PART NO.	QTY.	DESCRIPTION	
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY	
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY	
3	06500694	1	HOSE, 1/4" X 83"	
4		1	HOSE, 1/4" X 83"	
5	06500695	1	HOSE, 1/4" X 138"	
6		1	HOSE, 1/4" X 138"	
7	06500696	1	HOSE, 1/4" X 112"	
8		1	HOSE, 1/4" X 112"	
9	06500859	1	HOSE, 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**



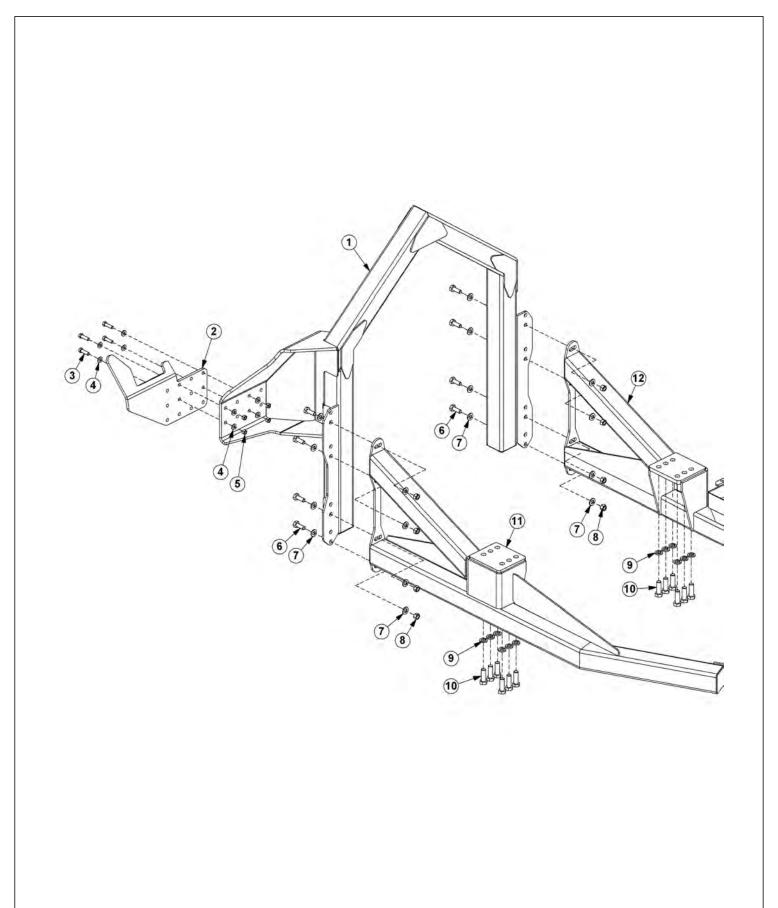
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700191	1	MAIN BOOM, EXT, T4
3	06700094	1	SECONDARY BOOM ARM ASSY, EXT, T4
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB1044	2	BUSHING, 1-1/4"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
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,1/20RB X 1/20RB 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**



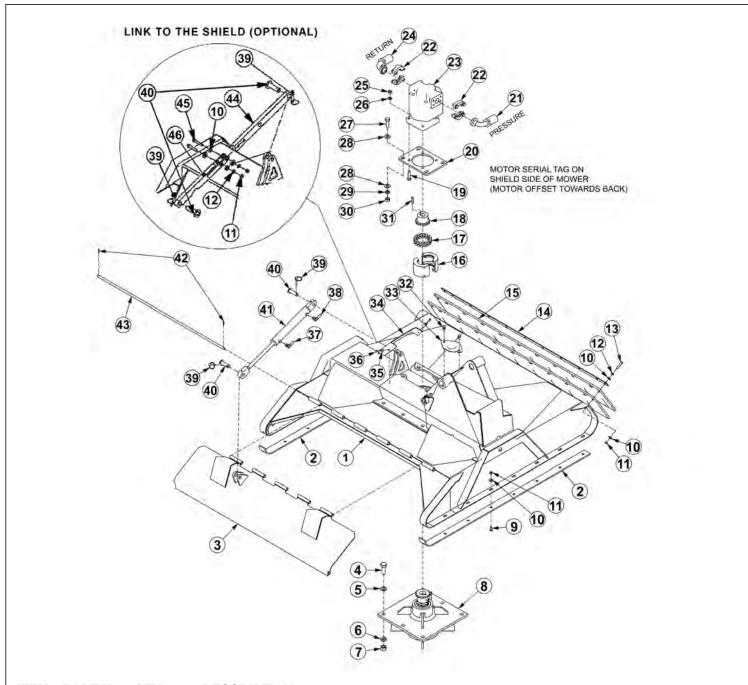
ITEM	PART NO.	QTY.	DESCRIPTION	
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY	
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY	
3	06500716	1	HOSE, 1/4" X 100"	
4		1	HOSE, 1/4" X 100 "	
5	06500717	1	HOSE, 1/4" X 170"	
6		1	HOSE, 1/4" X 170"	
7	06500718	1	HOSE, 1/4" X 130"	
8		1	HOSE, 1/4" X 130"	
9	06500715	1	HOSE, 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**



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

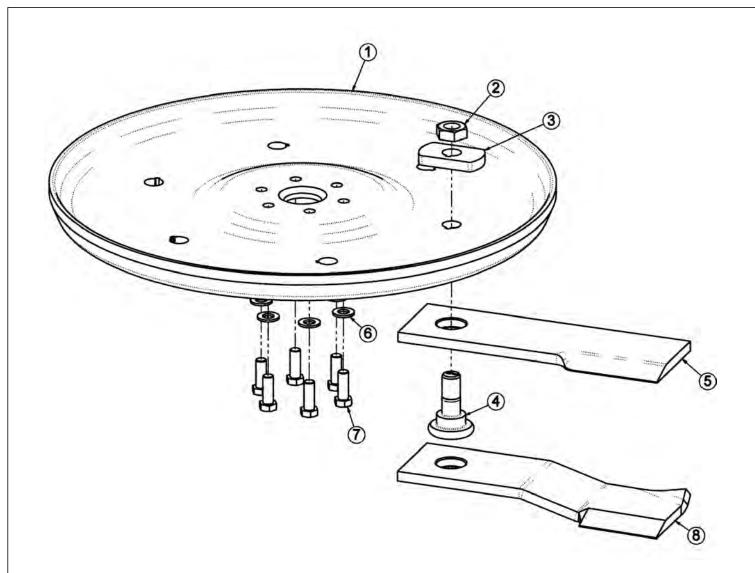
### **50IN ROTARY MOWER ASSEMBLY**



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

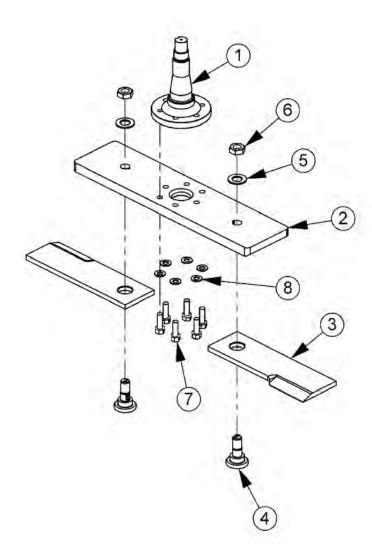
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	33774	1	FLAP RETAINER,50" RTRY
15	33775	2	FLAP,50" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18	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**



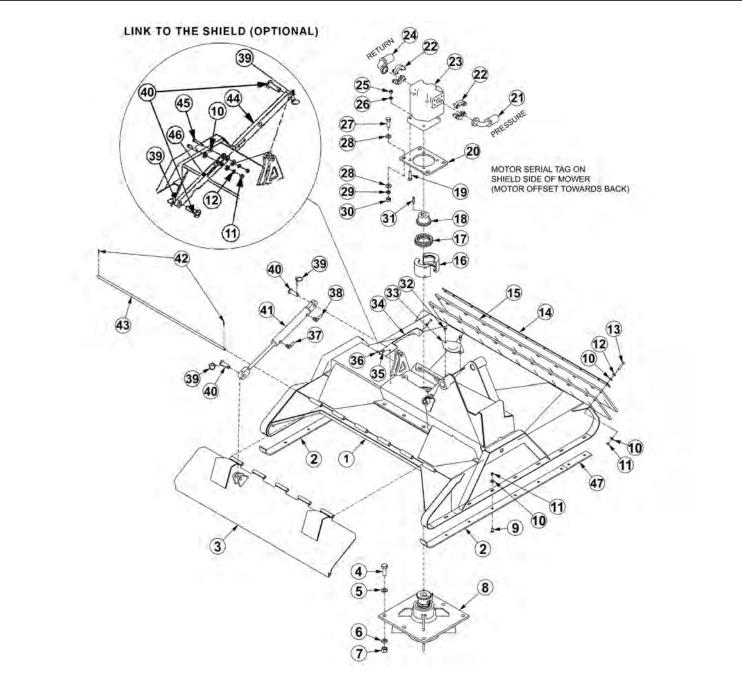
ITEM	PART NO.	QTY.	DESCRIPTION
	06700089	-	KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7)
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
	06770012	-	BOLT KIT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

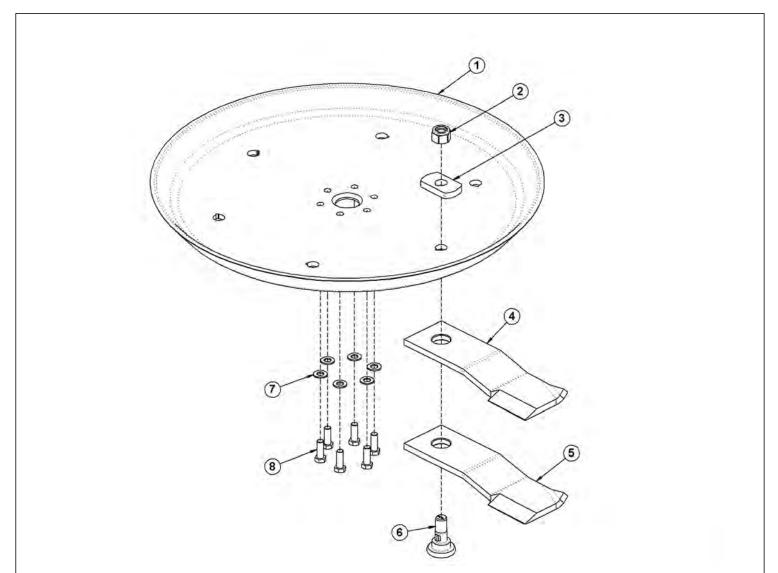
### **60IN ROTARY MOWER ASSEMBLY**



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

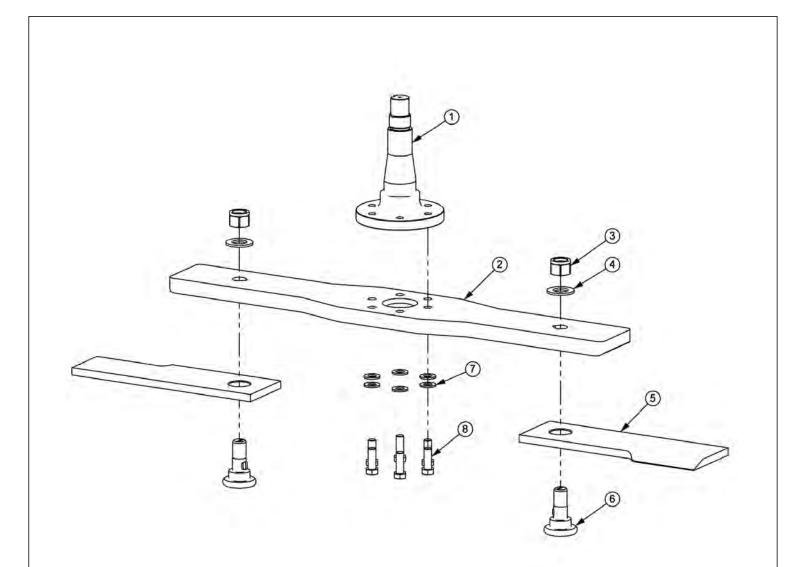
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	6T0823	1	FLAP RETAINER,60" RTRY
15	06520238	2	FLAP,60" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
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**



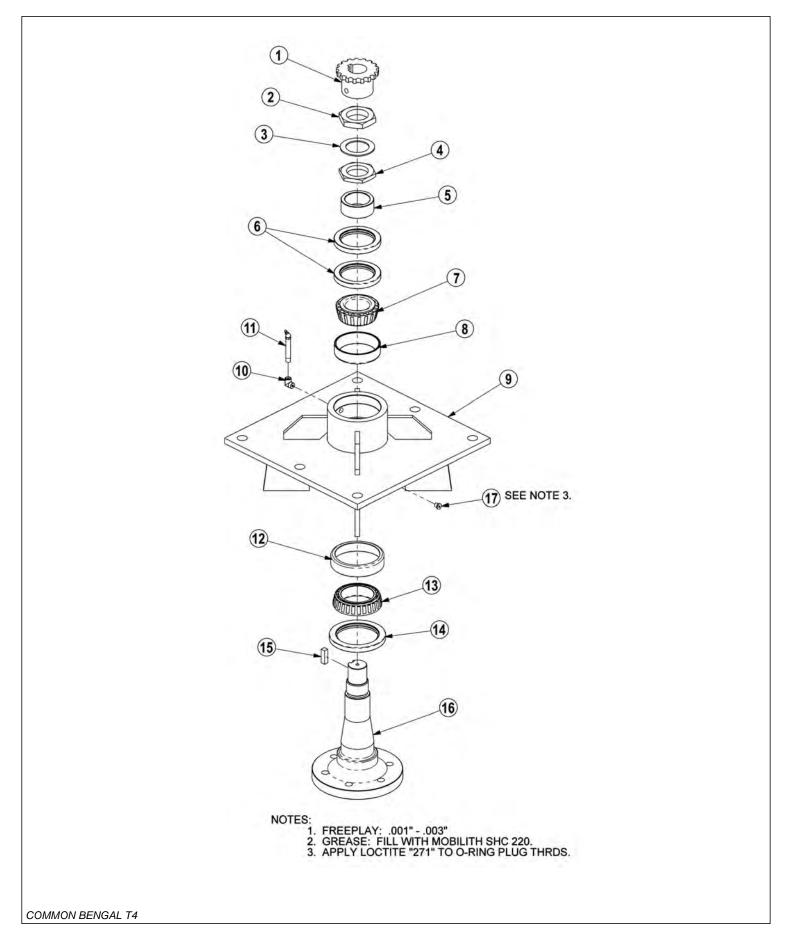
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISH,60"
2	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	34878	2	SPACER
4	34684	2	STANDARD GRASS KNIFE
5	34685	2	HIGH SUCTION GRASS KNIFE (OPTIONAL)
6	34497	2	KNIFE MOUNTING BOLT
7	25270	6	FLATWASHER,5/8",GR8,USS
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
	6T1825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



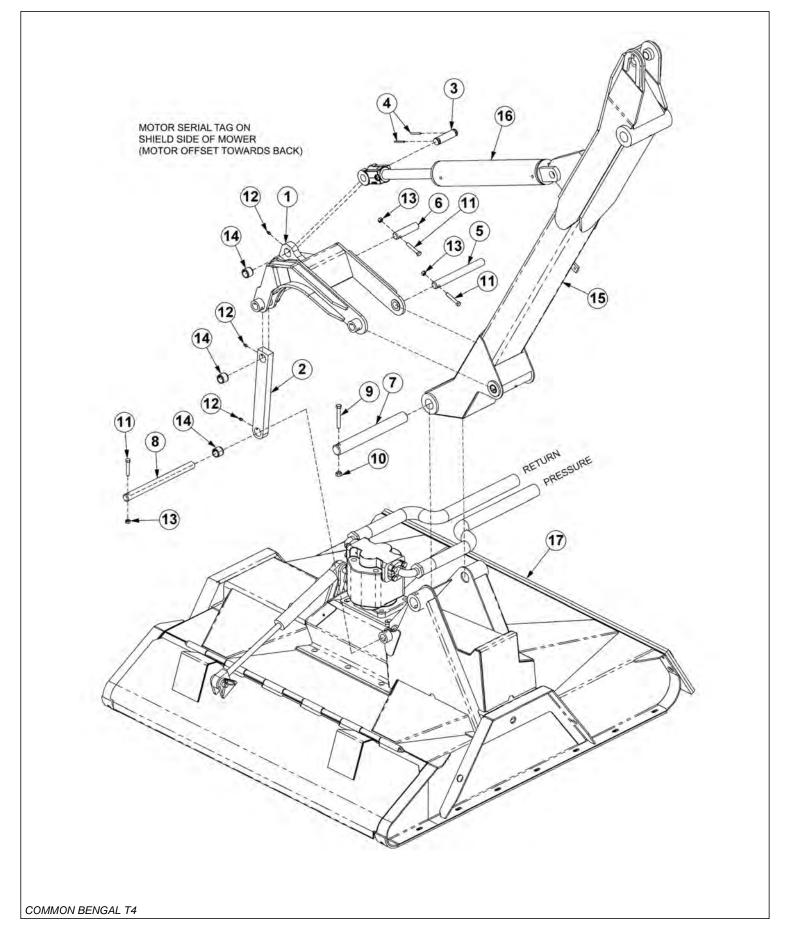
ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE
2	06400690	1	BAR,BLADE,RTRY60
3	6T1023R	2	KNIFE MTG NUT,1-1/8,NYLOCK,NF
4	06533002	2	FLATWASHER,1-1/8,GR8
5	06521001	2	KNIFE,TRB50,5/8
6	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
7	33764	6	FLATWASHER,5/8,GR 8,SAE
8	6T2259	6	CAPSCREW,5/8 X 1-3/4,NF,GR8

#### **ROTARY MOWER SPINDLE ASSEMBLY**



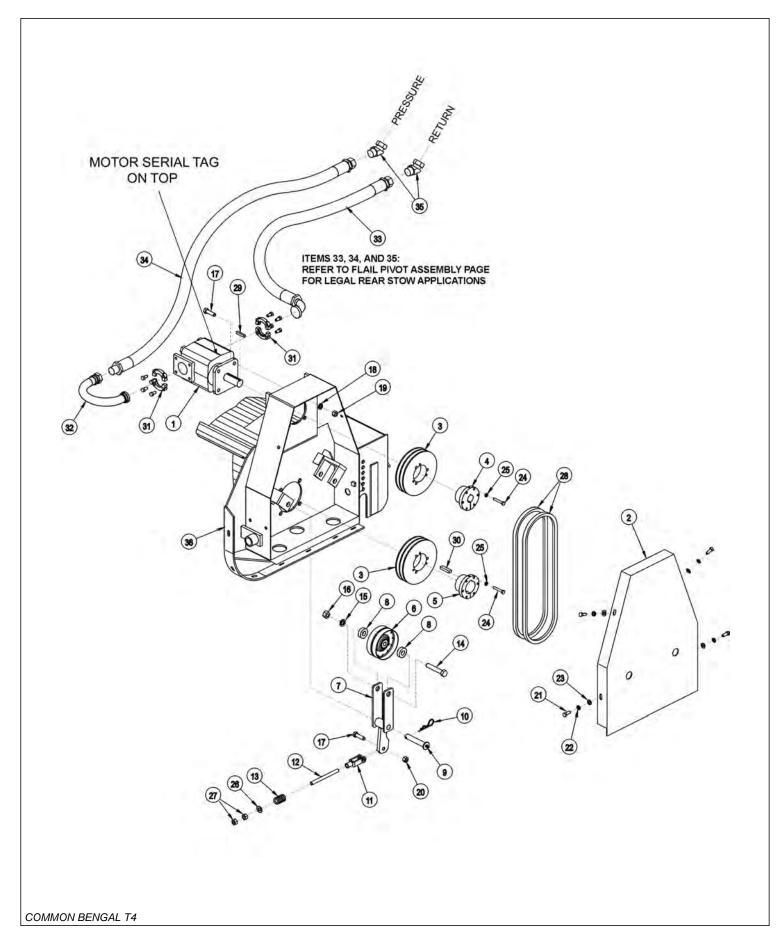
ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
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**



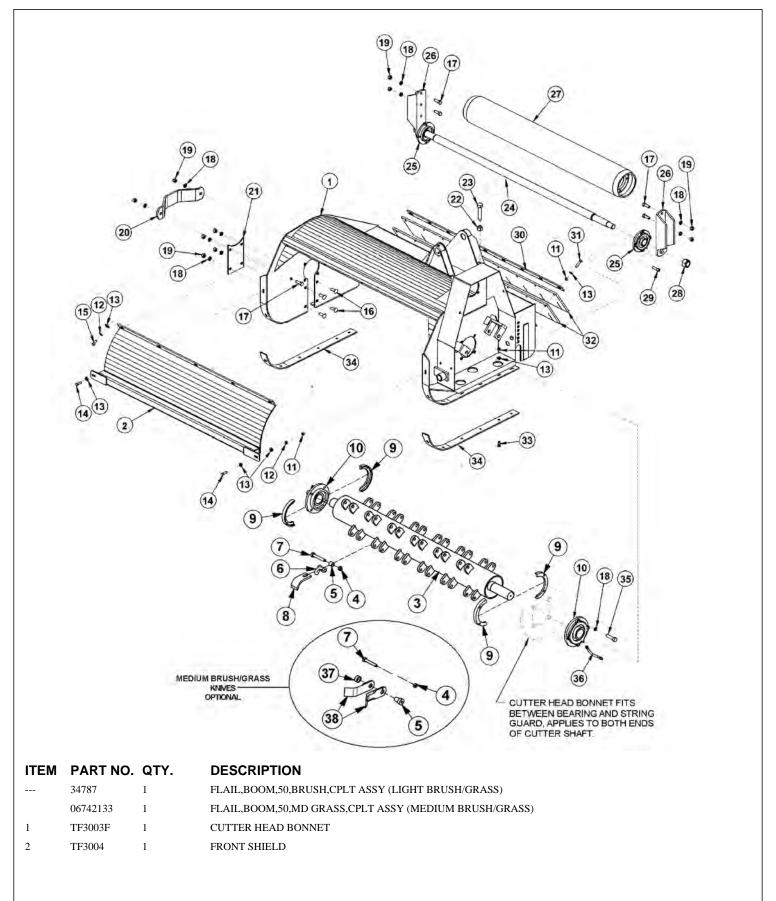
ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	ROTARY PIVOT ASSY
2	TB1028	1	PIVOT ARM ASSY
3	TB1033	1	PIN,CLEVIS
4	06537021	2	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	33985	1	PIN
8	33986	1	PIN
9	21688	1	CAPSCREW,7/16 X 3-1/4,NC
10	21677	1	NYLOCK NUT,7/16 NC
11	21635	3	CAPSCREW,3/8 X 2-1/4
12	6T3207	3	GREASE 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**



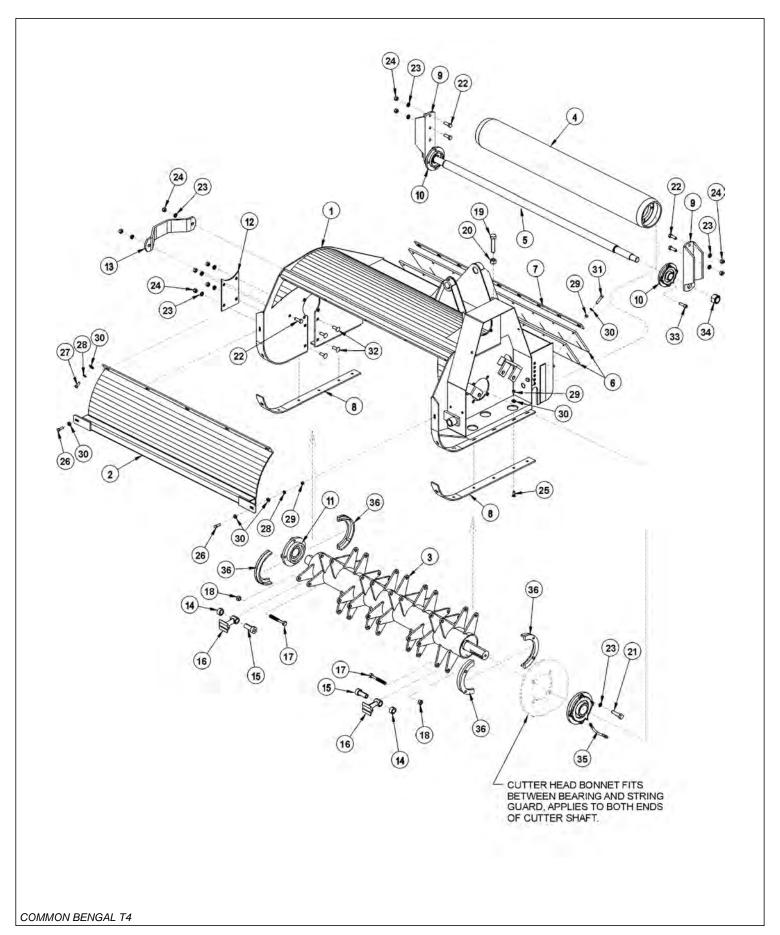
ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4" GEAR)
2	TF3006	1	BELT GUARD
3	TF3043	2	SHEAVE
4	TF3013	1	BUSHING
5	TF3011	1	BUSHING
6	TF3034	1	IDLER PULLEY
7	TF3205	1	IDLER ARM
8	TF3206	2	IDLER PULLEY SPACER
9	TF3605	1	IDLER ARM PIN WITH ZERK
10	6T3004	1	R - CLIP
11	PT3611A	1	CLEVIS
12	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**



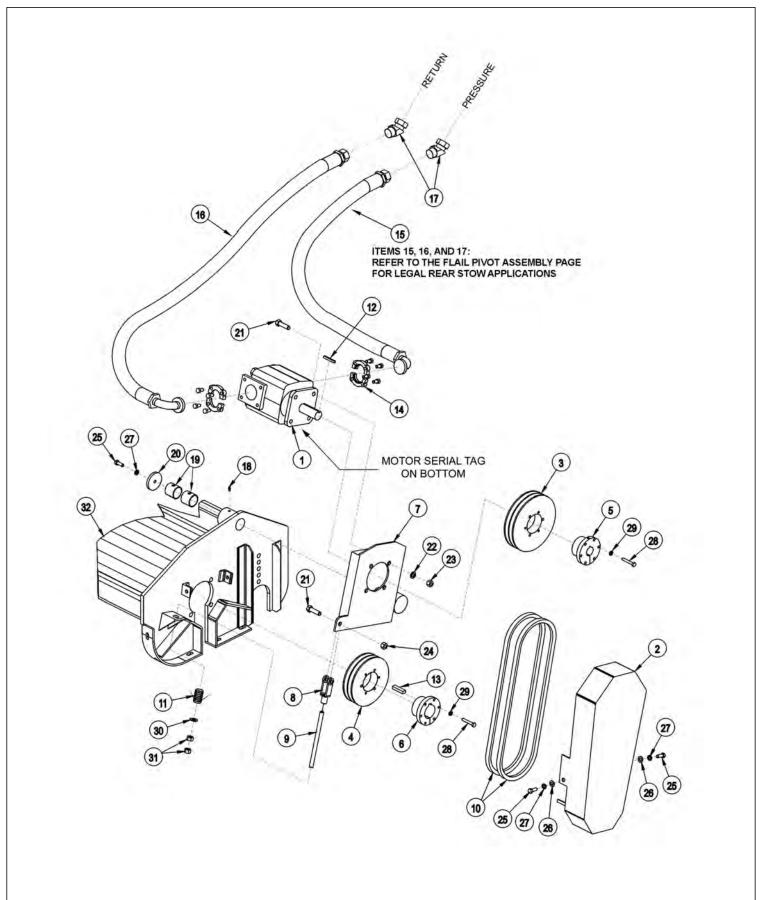
	ITEM	PART NO.	QTY.	DESCRIPTION
	3	34783	1	TBF50 (LIGHT BRUSH/GRASS KNIFE ASSY)
		06700115	1	TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY)
	4	6T2419	24	HEX NUT,9/16",NC,STOVER
	5	06420182	24	BUSHING
	6	34782	24	CLEVIS (LIGHT BRUSH/GRASS KNIVES)
	7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
	8	34780	24	KNIFE (LIGHT BRUSH/GRASS 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



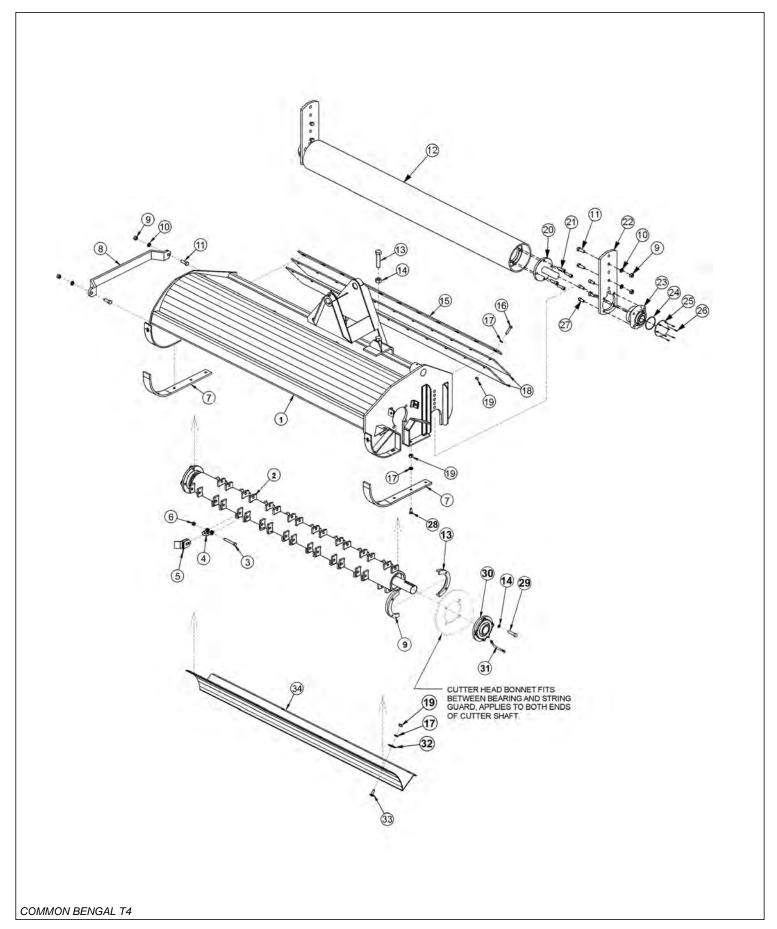
ITEM	PART NO.	QTY.	DESCRIPTION
	34172	1	FLAIL,BOOM,50,CPLT ASSY
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	33717	1	TBF50,CUTTERSHAFT,PASS THRU KNIVES
4	TF3405	1	GROUND ROLLER
5	TF3406	1	GROUND ROLLER TIE ROD
6	TB1006A	2	DEFLECTOR FLAP
7	TB1008	1	FLAP RETAINING BAR
8	TF3001	2	SKID SHOE
9	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
20	21825	1	HEX NUT,5/8",NC
21	21732	8	CAPSCREW,1/2" X 1-3/4",NC
22	21731	6	CAPSCREW,1/2" X 1-1/2",NC
23	21990	18	LOCKWASHER,1/2"
24	21725	10	HEX NUT,1/2",NC
25	6T2270	12	PLOWBOLT,3/8" X 1",NC
26	21631	2	CAPSCREW,3/8" X 1-1/4",NC
27	21630	5	CAPSCREW,3/8" X 1",NC
28	21988	7	LOCKWASHER,3/8"
29	21625	23	HEX NUT,3/8",NC
30	22016	30	FLATWASHER,3/8"
31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
32	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
33	6T2330	8	CAPSCREW,7/16" X 1-1/2",NC,SCKT HD
34	6T1023R	2	NYLOCK NUT,1-1/8",NF
35	TF1032	1	FLANGE BEARING GREASE HOSE
36	31204	2	STRING GUARD SET (2 PIECES PER SET)

### **63IN FLAIL DRIVE ASSEMBLY**



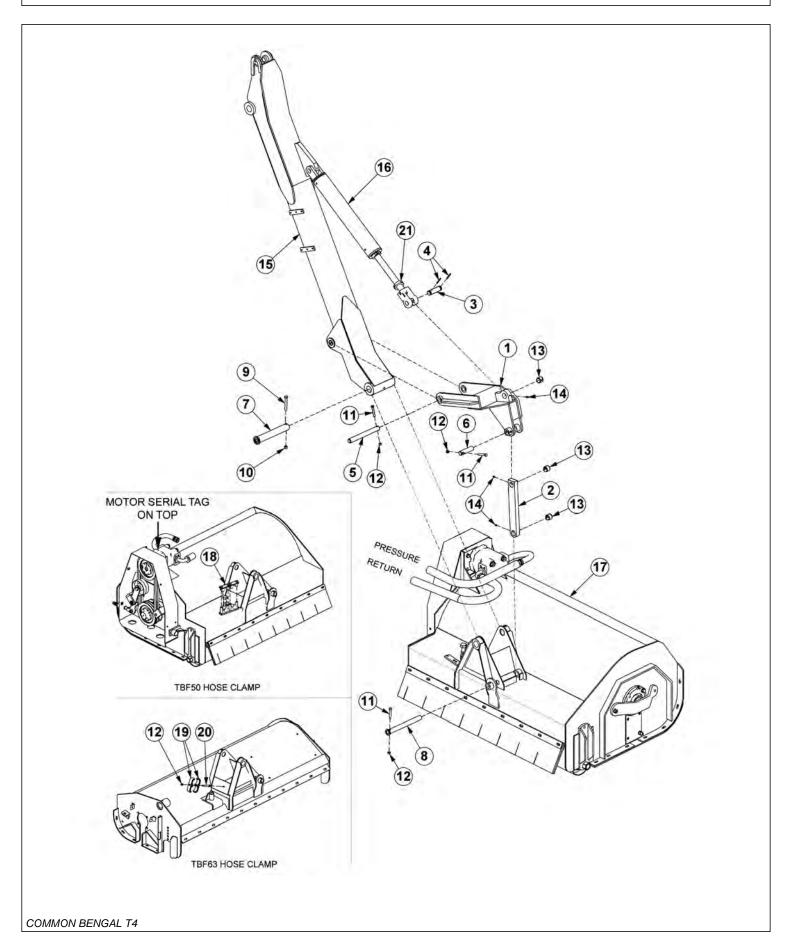
ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4 GEAR)
2	32569	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4	TF3040	1	LOWER SHEAVE
5	TF3013	1	BUSHING
6	28723	1	BUSHING
7	28679B	1	MOTOR CHANNEL
8	PT3611A	1	CLEVIS
9	40496	1	THREADED ROD
10	28702	2	BELT
11	TF3620A	1	TENSIONER SPRING
12	28572	1	SQUARE 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**



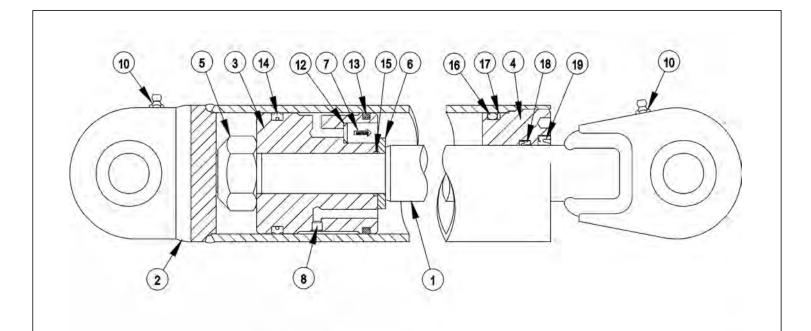
ITEM	PART NO.	QTY.	DESCRIPTION
	06200271	-	FLAIL,BOOM,63,GRASS,CPLT ASSY
1	28659H	1	CUTTER HEAD BONNET
2	28743	-	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
	28642C	1	CUTTER SHAFT,63,STD
3	34011	36	FLAIL KNIFE MOUNTING BOLT
4	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
5	33713	72	FLAIL KNIFE - STANDARD
6	21677	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)
1			

### **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

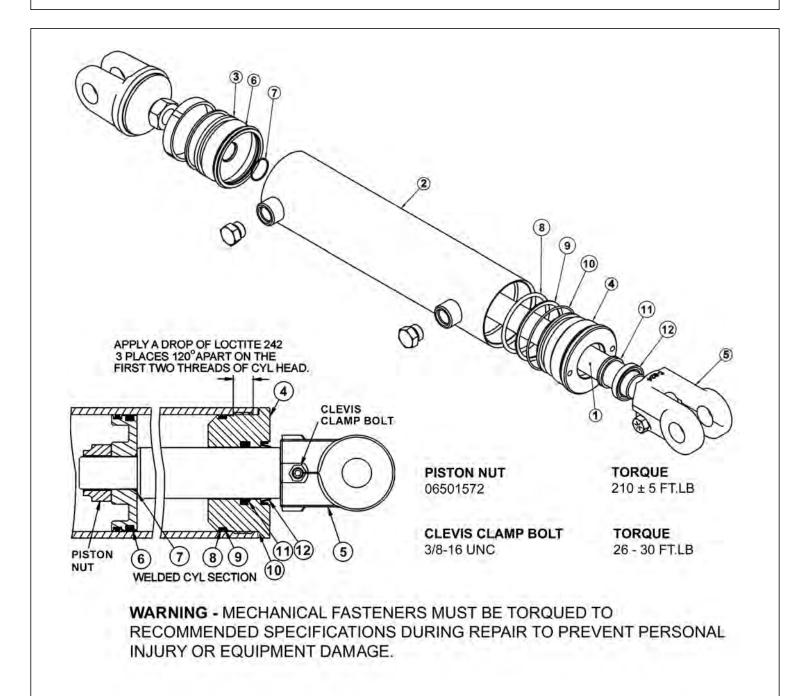
### **3IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN**



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

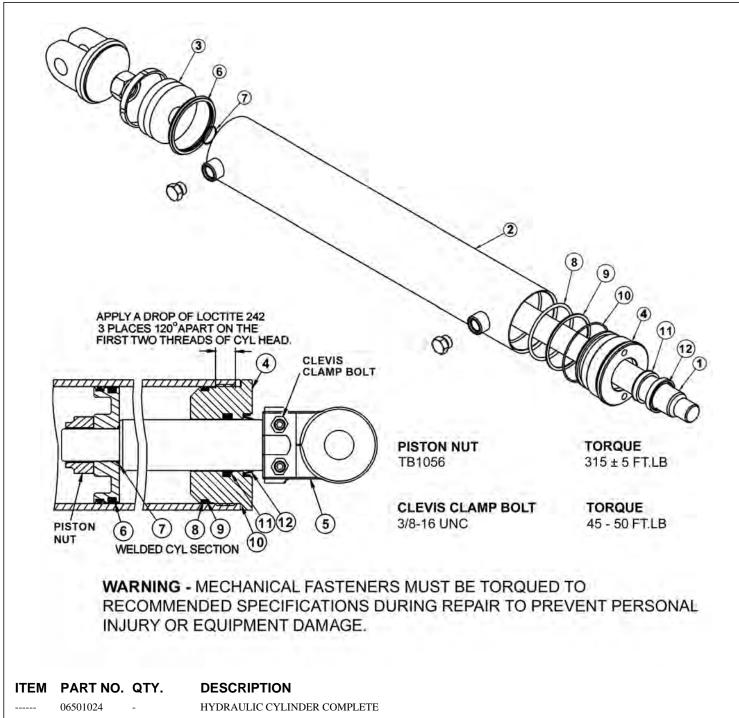
ITEM	PART NO.	QTY.	DESCRIPTION
	06501029	-	CYLINDER,WELDED,3" X 13.87"
1	06501630	1	PISTON ROD ASSY
2	06501648	1	BUTT & TUBE ASSY
3	06501649	1	PISTON
4	34574	1	GLAND
5	34575	1	LOCK NUT,1"-14 UNS (TORQUE TO 315 FT.LB.)
6	34576	1	SPACER
7	34577	1	CHECK VALVE, KEPNER
8	06501650	1	ORIFICE, ZERO LEAK, 0225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

### **3IN X 18IN WELDED CYLINDER BREAKDOWN**



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



1 06501565 1 ROD

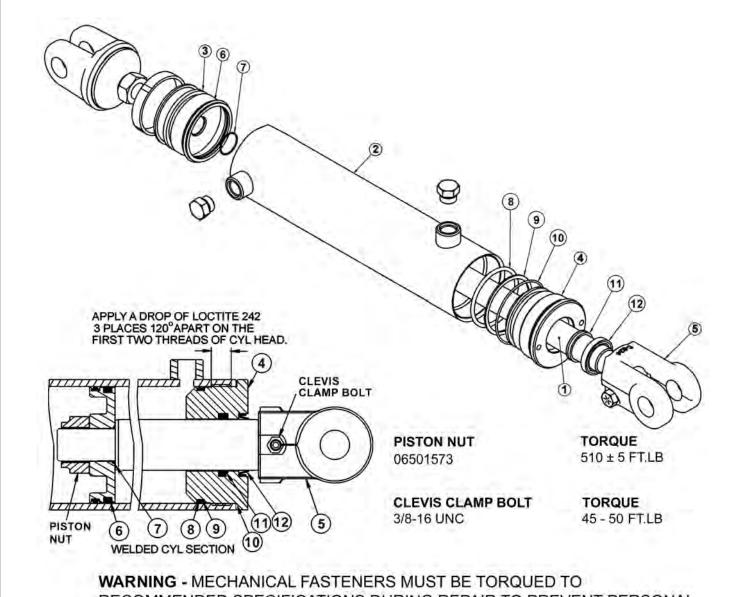
2 06501566 1 TUBE WELDMENT 3 06501567 1 PISTON

4 06501568 1 CYLINDER HEAD

5 TB3033 - CLEVIS

----- 06501569 - SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

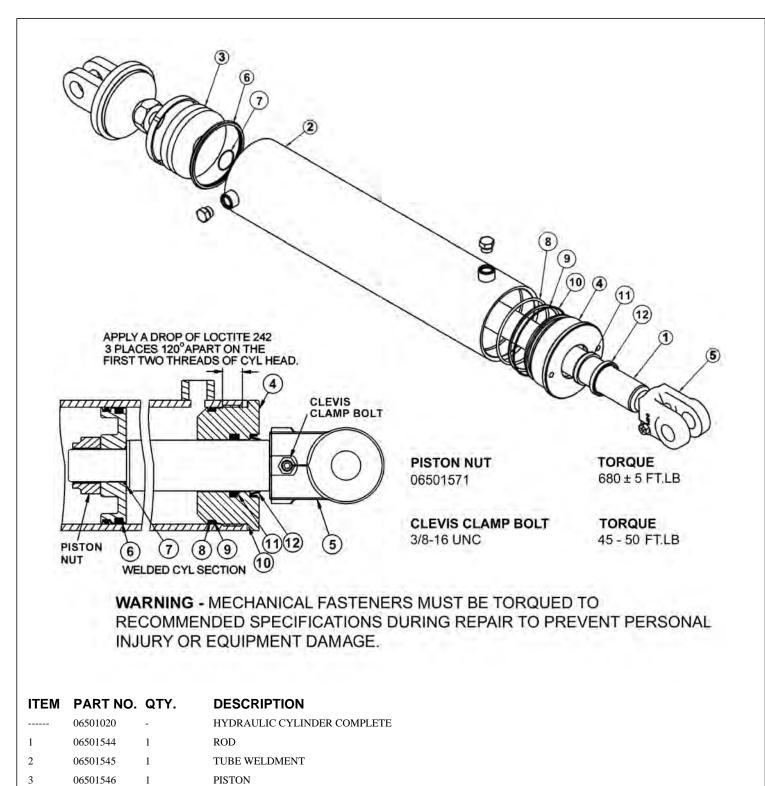
### **4IN X 20IN WELDED CYLINDER BREAKDOWN**



RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

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)

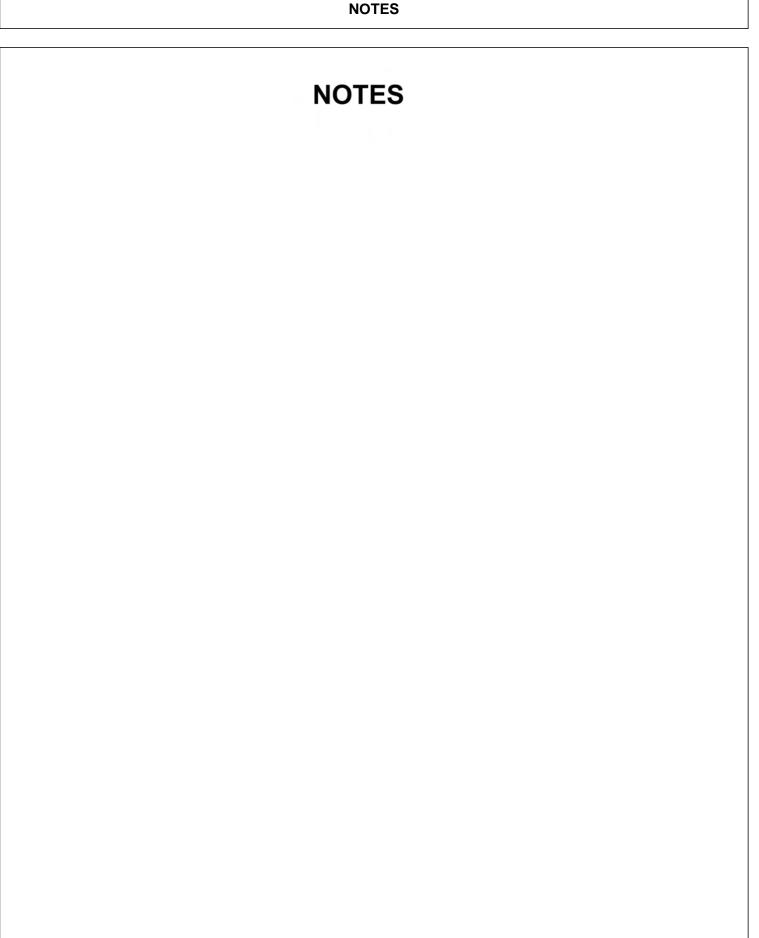
#### **5IN X 20IN WELDED CYLINDER BREAKDOWN**



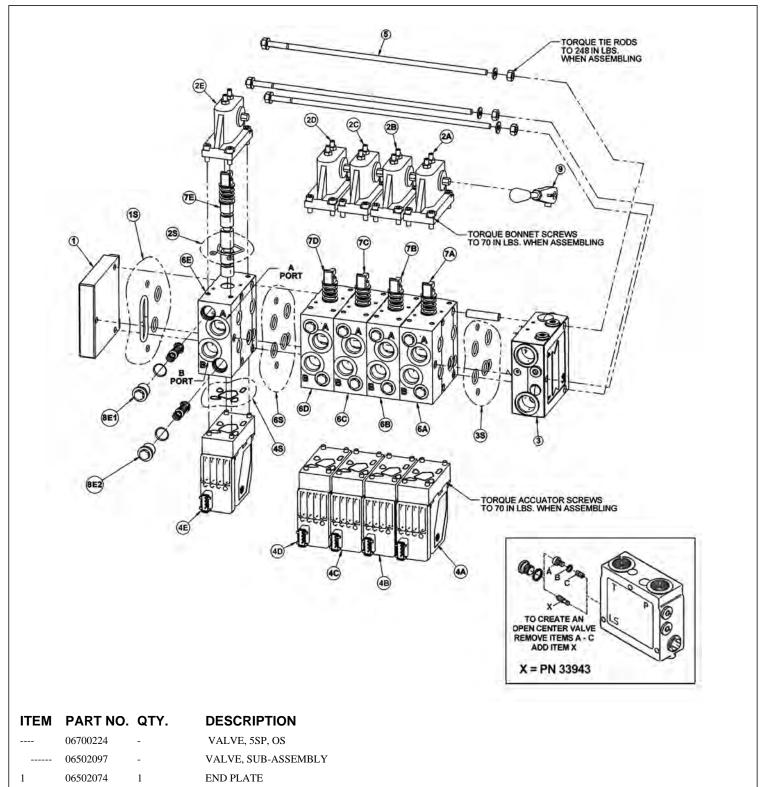
4 06501547 1 CYLINDER HEAD

5 06501548 1 CLEVIS

----- 06501549 - SEAL REPAIR KIT (ITEMS 6 THROUGH 12)



### 5 SPOOL ELECTRONIC VALVE - OPEN STOW, 3PS



1 END PLATE SEAL KIT

- 5 BONNET
- 06505042 1 BONNET SEAL KIT

COMMON BENGAL T4

06505013

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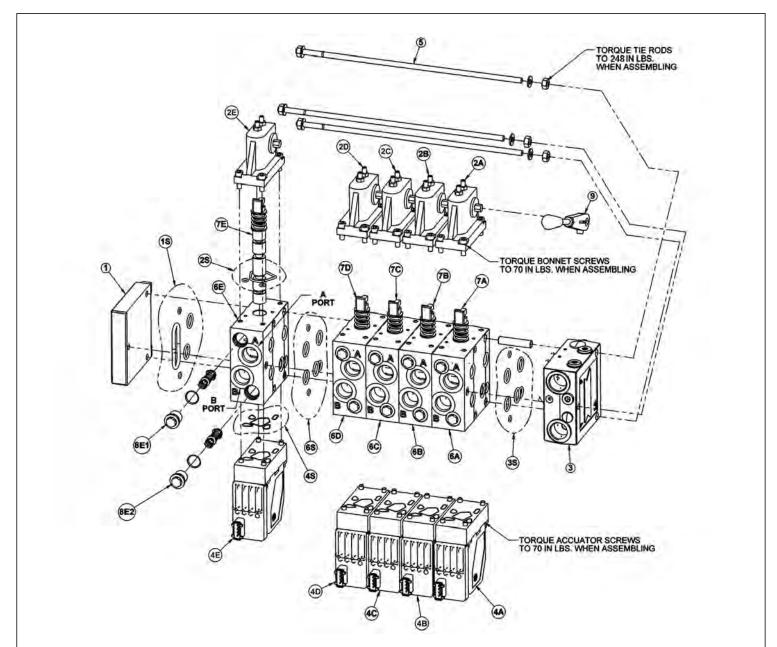
1S

2S

2

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
35	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

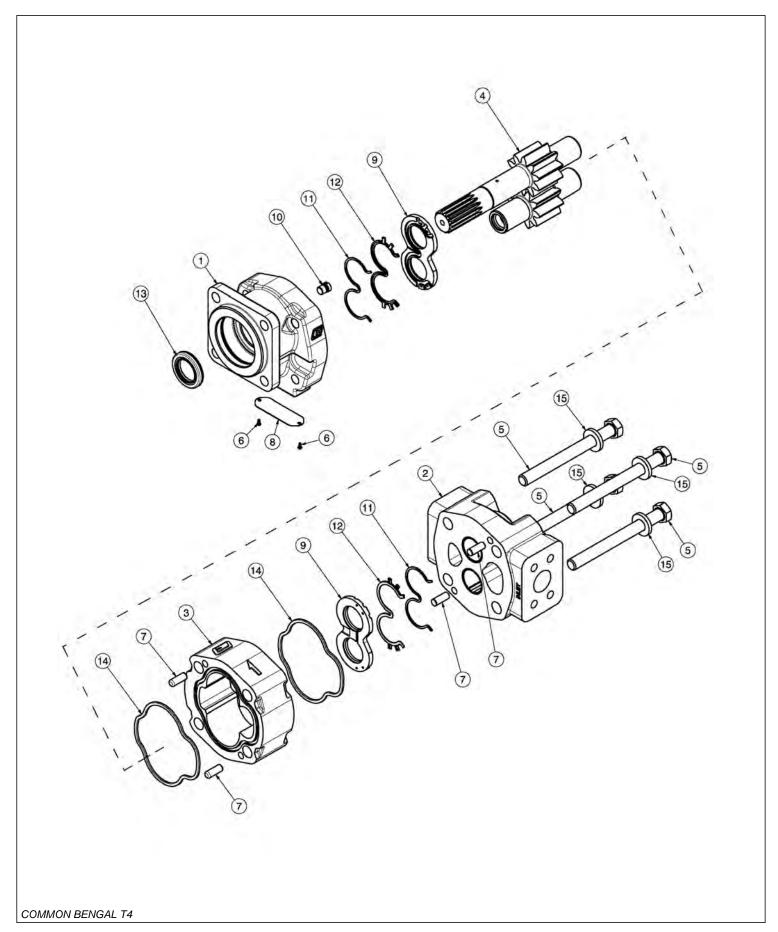
#### **5 SPOOL ELECTRONIC VALVE - SIDE STOW**



ITEM	PART NO.	QTY.	DESCRIPTION
	06502096	-	VLV,5SP,32PVG,SIDE STOW
1	06502074	1	END PLATE
1 <b>S</b>	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

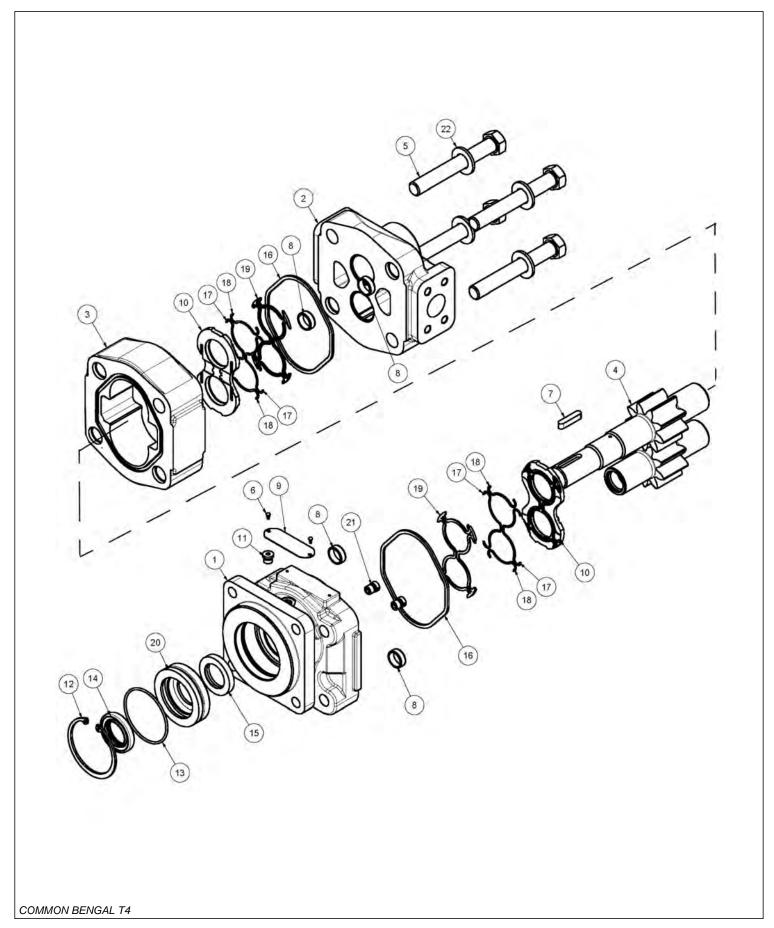
	ITEM	PART NO.	QTY.	DESCRIPTION
	3	34308	1	INLET SECTION
	3S	06505013	1	INLET SECTION SEAL KIT
	4		5	ELECTRONIC ACCUATOR
	4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
	4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
	4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
	4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR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

# FRONT HYDRAULIC PUMP



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)

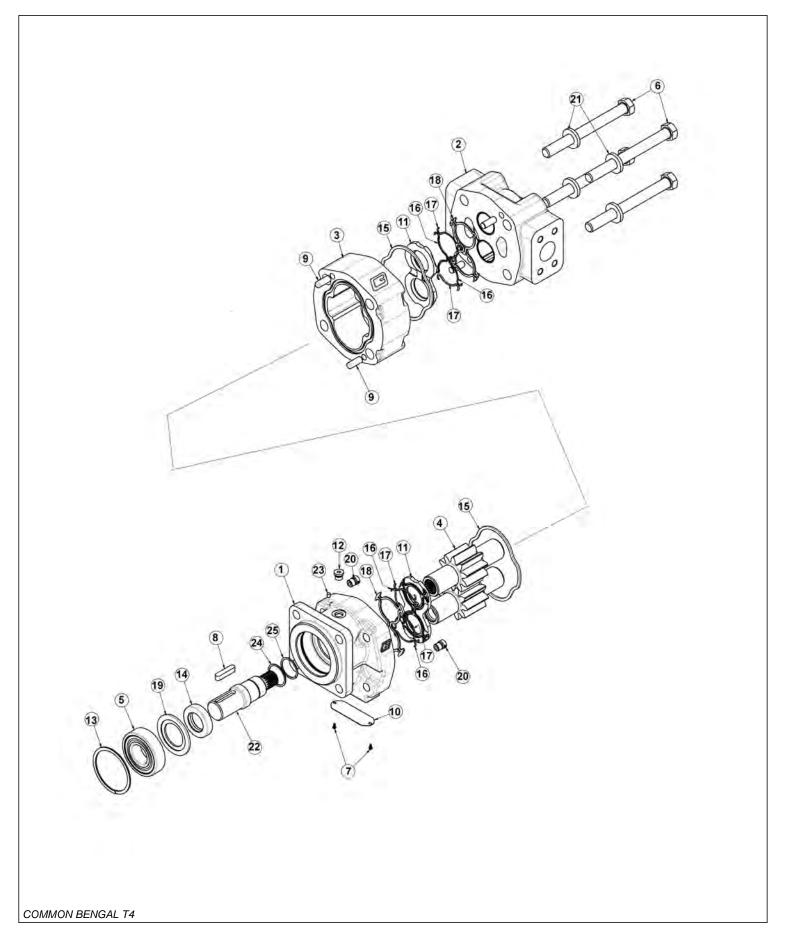
# **50IN AND 60IN ROTARY MOTOR BREAKDOWN**



## Continued...

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

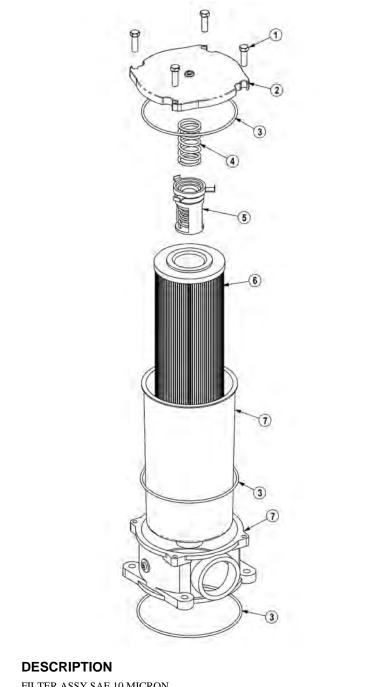
# FLAIL MOTOR BREAKDOWN



# Continued...

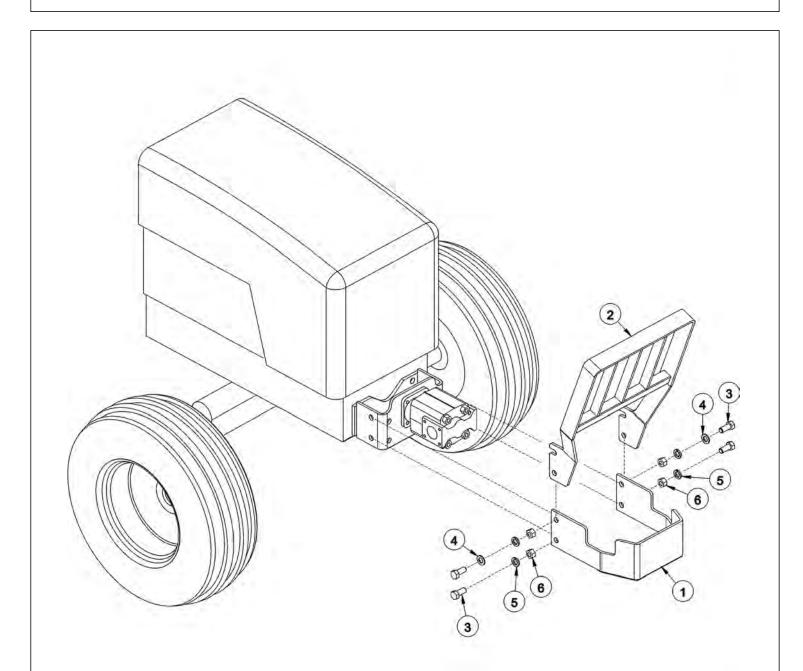
ITEM	PART NO.	QTY.	DESCRIPTION
*	06504132	-	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504141	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504117	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
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**



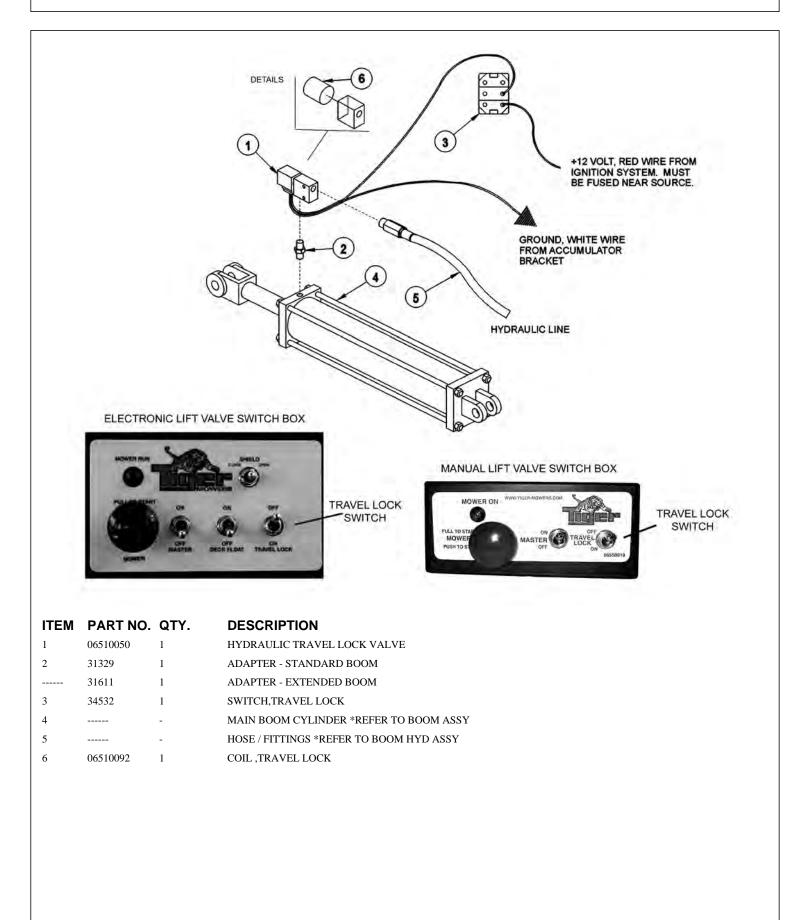
ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	-	FILTER ASSY SAE 10 MICRON
1	28583	4	CAPSCREW,8MM X 25MM(1.25 PITCH)
2	06505045	1	COVER
3	06505046	1	SEAL KIT
4	06505047	1	SPRING
5	06505048	1	BYPASS
6	35259	1	FILTER,10 MIC,RETURN LINE
7	06505049	1	CAN/BODY

# PUMP AND GRILL GUARD OPTIONS

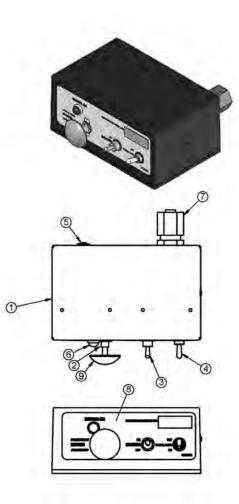


ITEM	PART NO.	QTY.	DESCRIPTION
1	32430	1	UNIVERSAL PUMP GUARD
2	32737	1	UNIVERSAL GRILL GUARD
3	21833	4	CAPSCREW,3/4" X 2-1/4",NC
4	22021	2	FLATWASHER,3/4"
5	21993	4	LOCKWASHER,3/4"
6	21825	4	HEX NUT,3/4",NC

#### **BOOM TRAVEL LOCK**

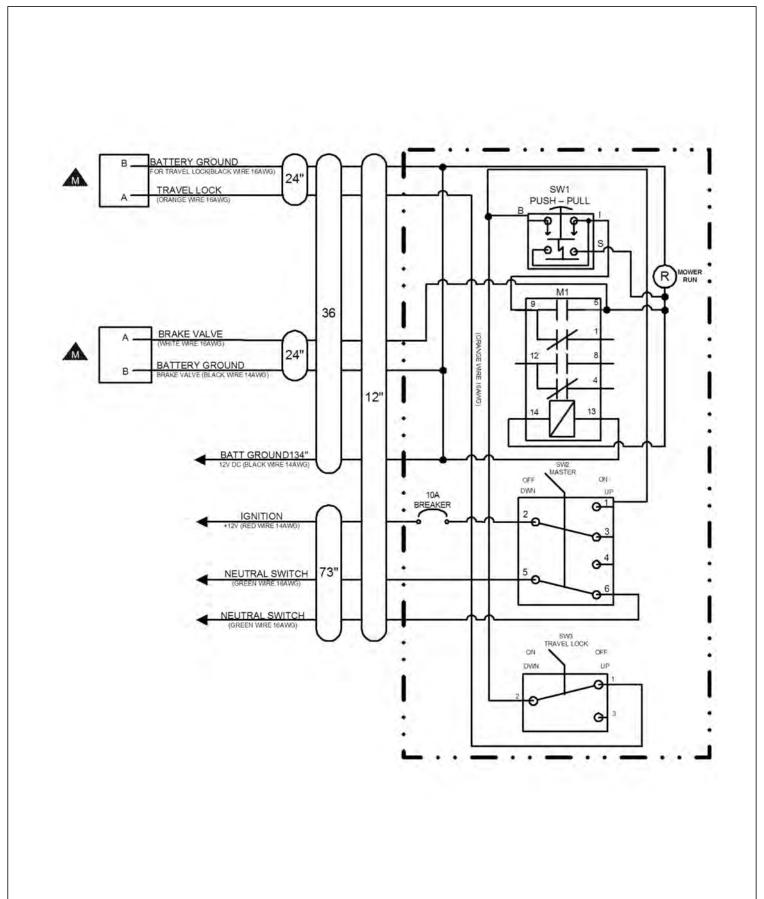


# MANUAL LIFT VALVE SWITCH BOX

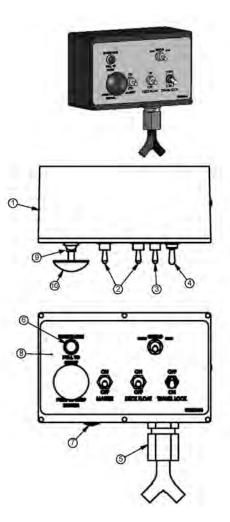


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514012	1	SWBX,ALUM,BLK,06510100
2	35226	1	SWITCH, MOWER, COLEHERSEE
3	33811	1	SWITCH, MASTER/DECK FLOAT
4	34532	1	SWITCH, TRVL LCK
5	06514014	1	BREAKER,10A,SWBX
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
8	06550019	1	DECAL,SWTCHBX,BOOM,CG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



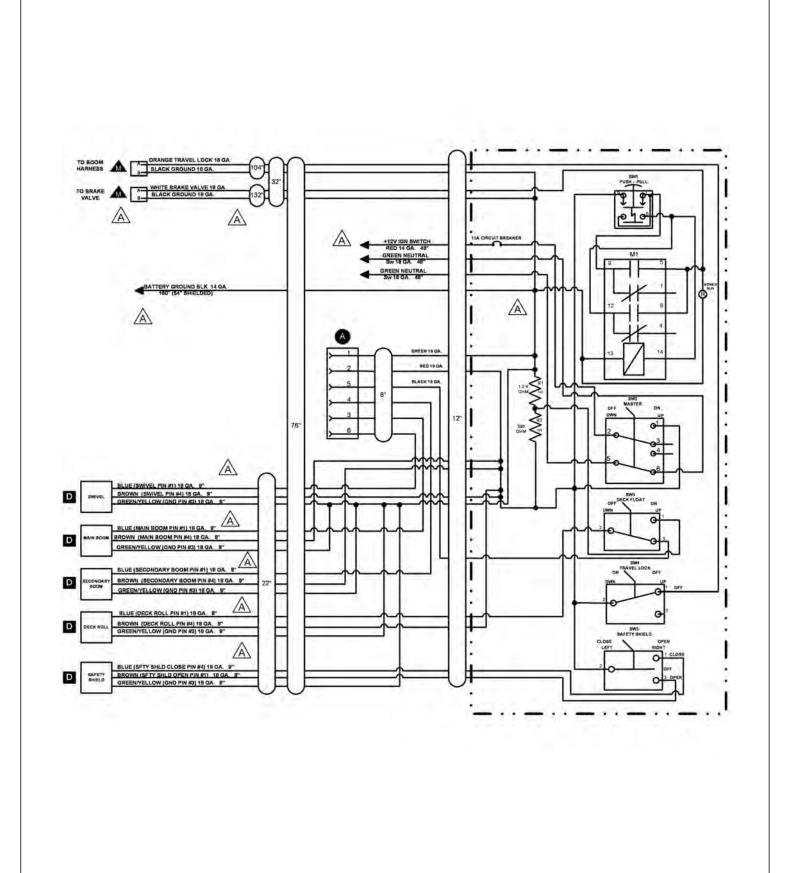


# **ELECTRONIC LIFT VALVE SWITCH BOX**

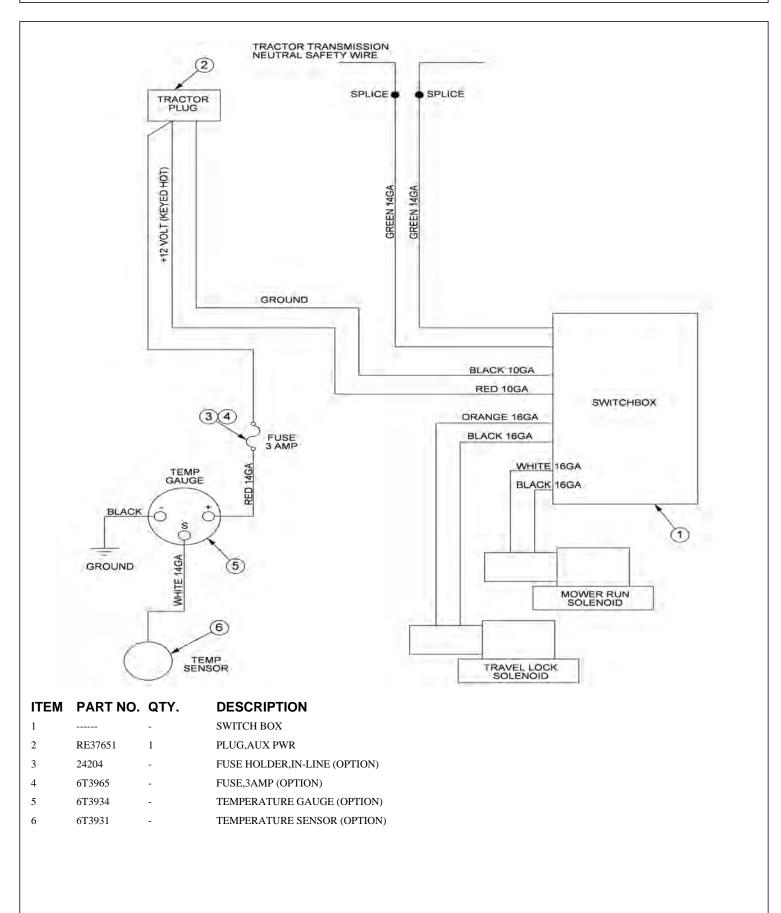


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH, MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH, TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,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

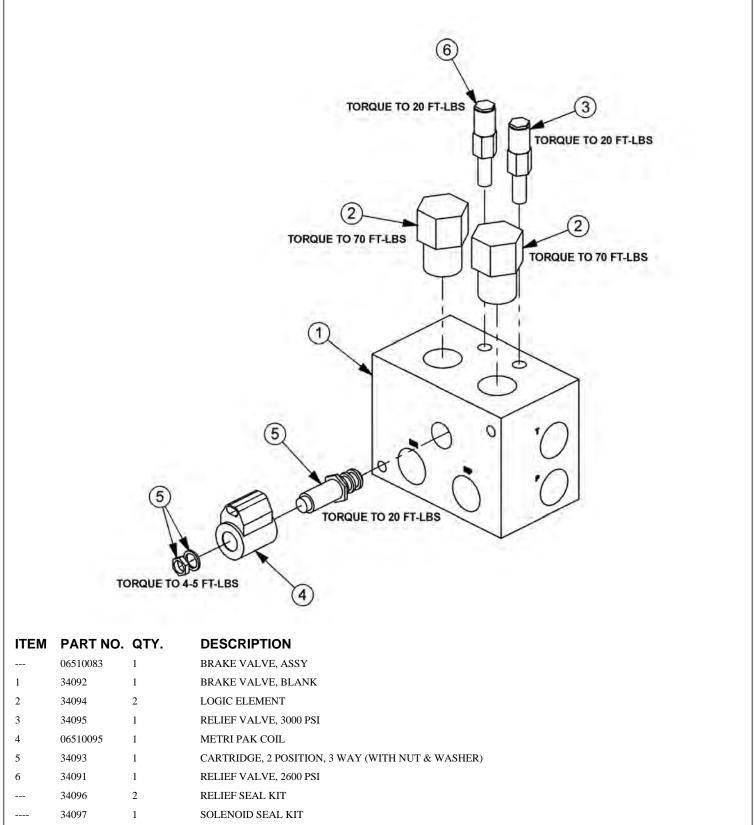
#### ELECTRONIC LIFT VALVE SCHEMATIC



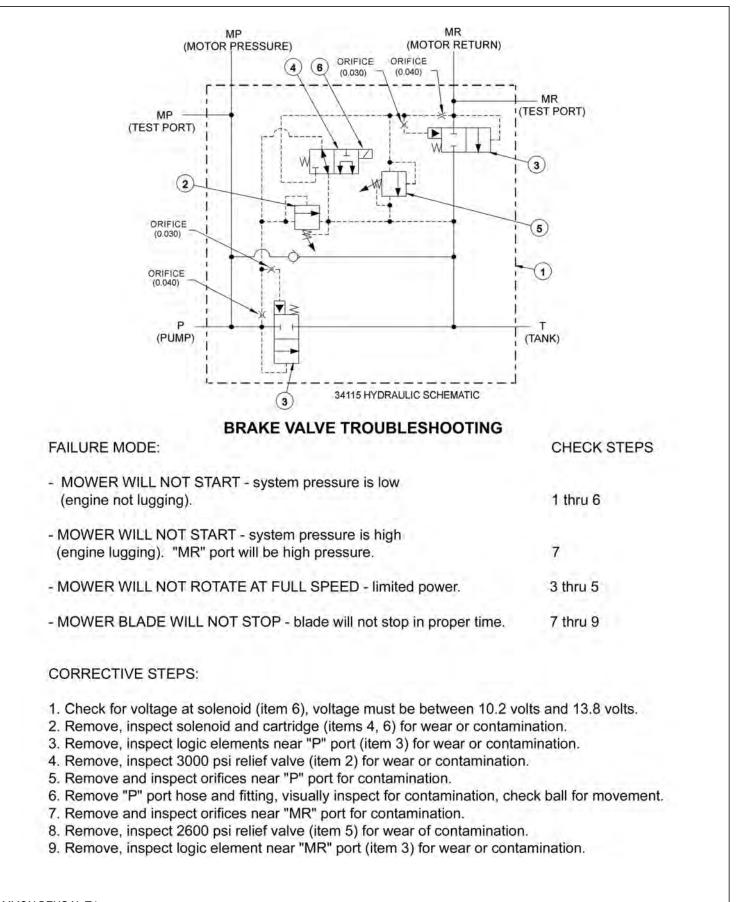
#### SOLENOID SWITCH BOX AND WIRING



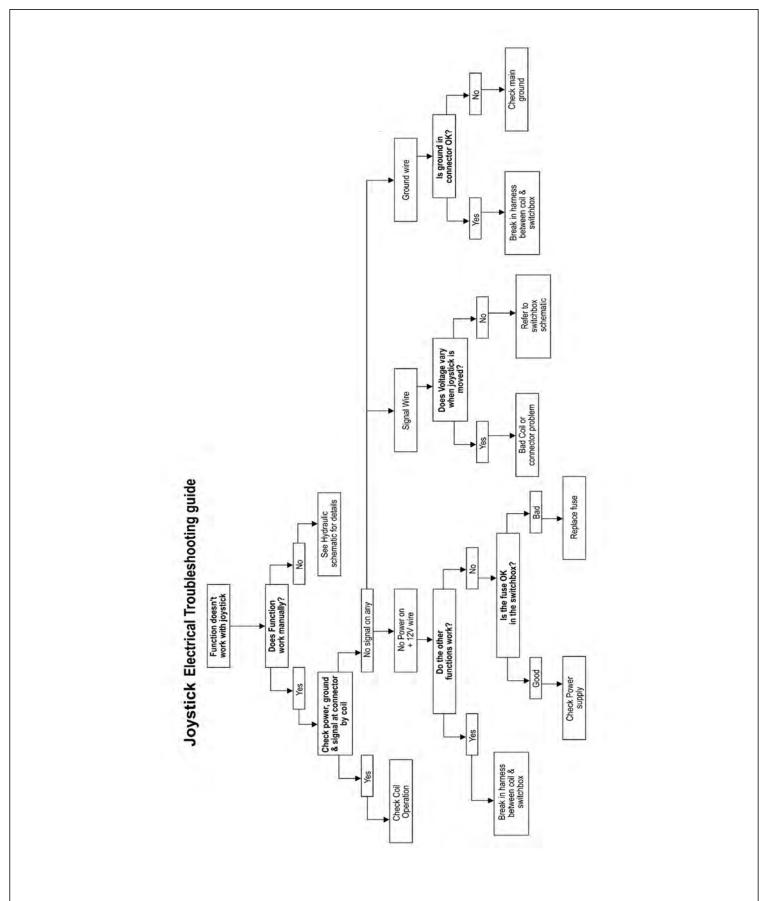
COMMON BENGAL T4

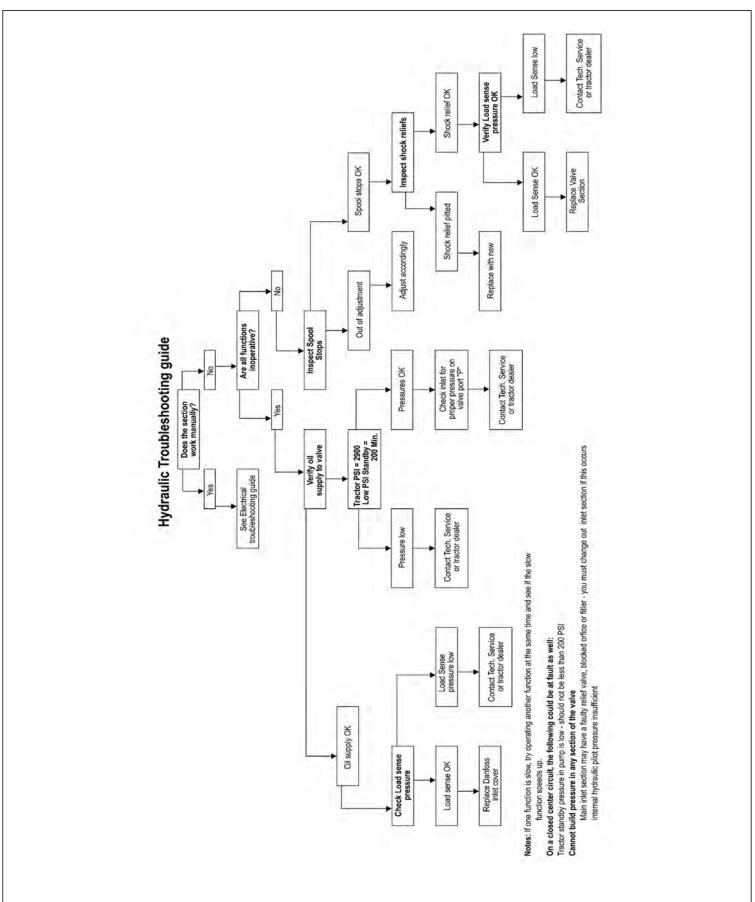


--- 34098 2 ELEMENT SEAL KIT



#### 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

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.

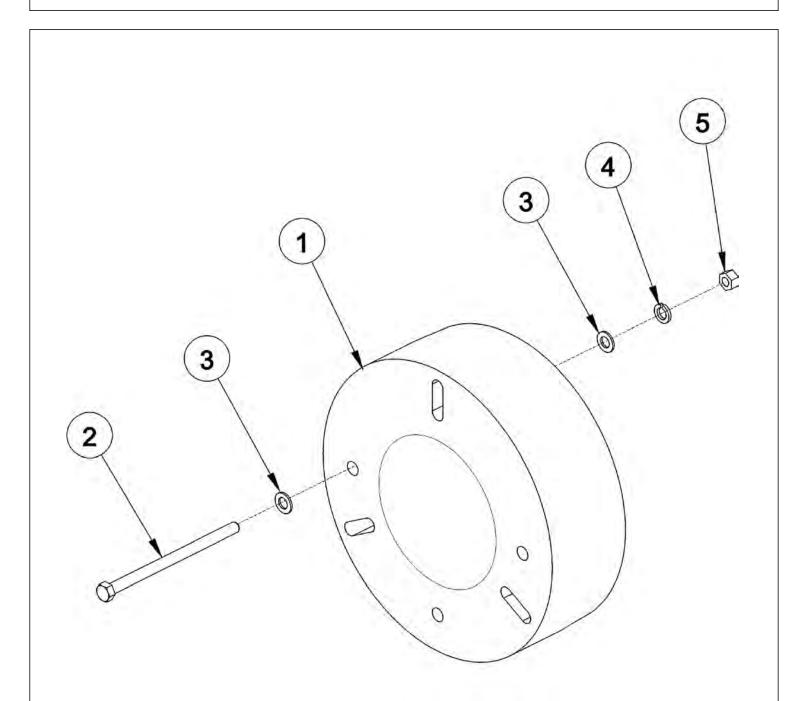
Gear pump – P should approximately 200 psi higher than LS. LS should equal highest workport pressure. Workport – pressure on cylinder or function. LS pump – P should be LS + standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function. Pressure Comp pump. P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

# WARRANTY SECTION

Warranty Section 7-1

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# WARRANTY INFORMATION

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

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

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

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

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

# THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSED HEREIN.

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

# **ONE LAST WORD**

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



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

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

# TO THE OWNER / OPERATOR / DEALER



To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this manual and on the machine. The table of contents clearly identifies each section where you can easily find the information you need.

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

## **OWNER REQUIREMENTS:**

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

## **OPERATOR REQUIREMENTS:**

- 1. Securely fasten seatbelt it the tractor has a ROPS.
- 2. Where possible, avoid operating the tractor near steep ditches, embankments, and holes.
- 3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
- 4. Stay off slopes too steep for safe operation.
- 5. Watch where you are going especially at row ends, on roads, and around trees.
- 6. Do Not permit others to ride.
- 7. Operate the tractor smoothly no jerky turns, starts, or stops.
- 8. Hitch only to the draw-bar and hitch points recommended by the tractor manufacturer.
- 9. When the tractor is stopped, set brakes securely and use park lock, if available



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