

# BENGAL BRUTE ASSEMBLIES

JD6105D

Current as of J/GFE201Í



PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

# **Tiger Corporation**

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

# TO THE OWNER / OPERATOR / DEALER

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

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

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



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



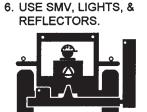






- Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
   Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially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









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

# **FORWARD**

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

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

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

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

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

<ul> <li>If unable to correct the problem yourself, contact your local Tiger Dealer after</li> </ul>
gathering:
Machine model

<ul> <li>Serial number</li> </ul>	
• Dealer name _	
<ul> <li>Detailed inform</li> </ul>	ation about the problem including results of troubleshooting

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

and will read a copy of this manual.

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

MANUFACTURED BY:	DISTRIBUTED BY:		
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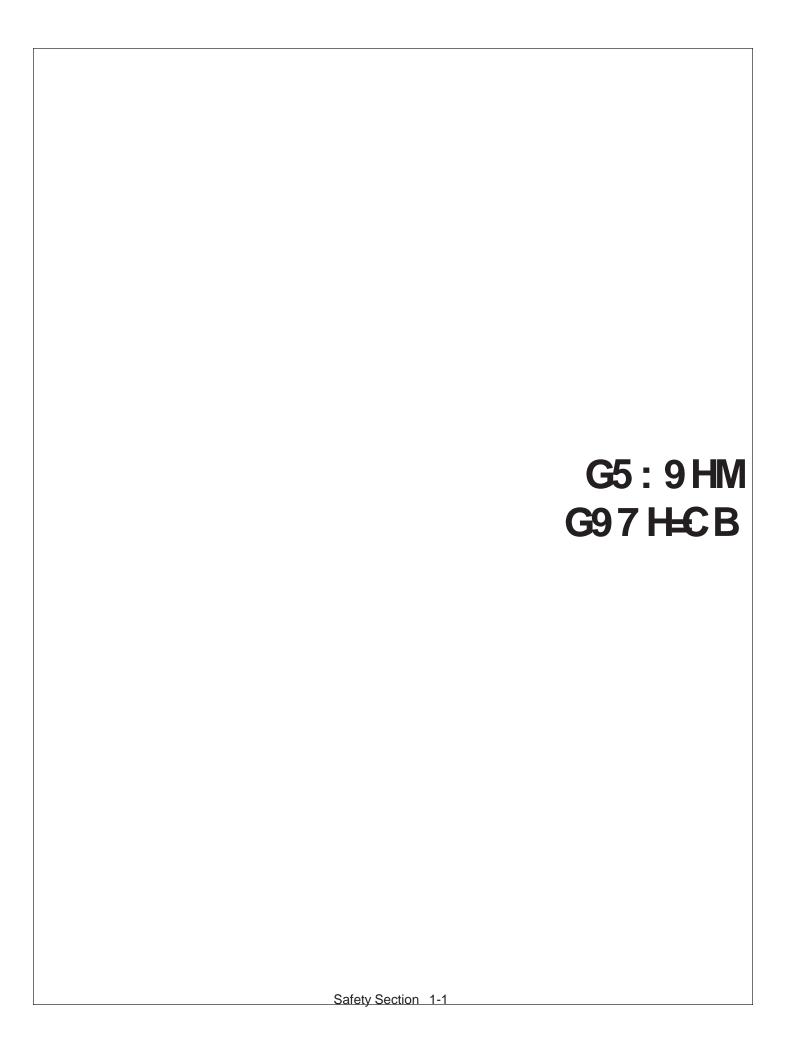


# This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.





5 'gUZY'UbX'WUfYZ `cdYfUrcf']g'h Y'VYghicdYfUrcf "''GUZYmi]g'cZ df]a Ufmi]a dcfhUbWf hc'h Y'a Ubi ZUWi fYf'UbX'g\ ci `X'VY'hc'h Y'ck bYf'# cdYfUrcf"''A cghiUWYXYbhg'WUb'VY'Uj c]XYX'VmiVY]b[ 'Uk UfY'cZmci f Yei ]da Ybhž nci f'gi ffci bX]b[ gžUbX'cVgYfj ]b[ 'W/fh U]b' dfYwUi h]cbg" H\ Y'Z]fghigYW]cb'cZh\ ]g'a Ubi U'']bWi XYg'U'`]ghicZGUZYmiA YggU[ Yg'h\ Uhž ]Z Zc``ck YXžk ]``\ Y'd'dfchYWih Y'cdYfUrcf'UbX'Vngh UbXYfg'Zca ']b'i fm cf' XYUh "''FYUX'UbX'i bXYfgh UbX'h\ YgY'GUZYmiA YggU[ Yg'VYZcfY UggYa V']b[ ž cdYfUr]b[ 'cf'gYfj ]V]b[ 'h\ ]g'a ck Yf "''H\ ]g'Yei ]da Ybh g\ ci `X' cb`miVY'cdYfUrYX'Vmih cgY'dYfgcbg'k\ c`\ Uj Y'fYUX'h\ Y'A Ubi Už k\ c'UfY'fYgdcbg]V'Y'UbX'lfU]bYXžUbX'k\ c'\_bck \ ck 'hc'Xc'gc'gUZY'm UbX'fYgdcbg]V`m'

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: Í 5 HH9 BH-CB° 6 97 CA9 5 @ FH° MCI F G5: 9 HM = G'=BJC @ 98°Î 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.

DfUW]WY'U`'i gi U'UbX'W ghca UfmgUZY'k cf\_]b[ 'dfYWUi h]cbg'UbX UVcj Y'U`'!!'fYa Ya VYf'gUZYhm]g'i d'hc' MCI ''''Cb`mi MCI 'WUb dfYj Ybhi gYf]ci g']b'i fmcf'XYUh' 'Zica 'i bgUZY'dfUW]WYg"



This is the Safety Alert Symbol. When you see this symbol on your machine or in these instructions, be alert to the potential for personal injury.



The lowest level of Safety Message; warns of possible injury. Decals located on the equipment with this signal word are Black and Yellow.



Serious injury or possible death! Decals are Black and Orange.



Imminent death / critical injury. Decals are Red and White.

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



D9 @ FC°



Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad. \*UI /5+



. @95'9@ -BGHFI 7 H-JC°

85B: 9F°



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 emergency0' 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. "u /6+



K5FB-B:



Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. \*UI /7+

K5FB=B: '



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. \*UI /8+



K5FB-B:



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. \*UI /9+



K5FB=B:



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. \*UI /: +

85B: 9F°



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.

"\*UI /; +

85B; 9F°



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

""""\*UI /32+



85B: 9F°



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

. """"\*{∏ /33



K5FB-B; °



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

34+



85B; 9F°



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. \*\*UI /35+



85B; 9F°



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. ""



85B; 9F°



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. "\*\*U /37+



K5FBB; °



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.







751 HCB°



DFC @CB; 98 '9LDCGI F9'HC' @CI 8'BC=69'A5 M75I G9'D9 FA5! B9BH'<95F=B; '@CGG''' 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. \*UT/189+



K5FB-B; °



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.



6 YZcfY lfUbgdcfl]b[ 'h\ Y'HfUWrcf 'UbX' =a d`Ya YbhžXYhYfa ]bY h\ Y'gUZY lfUbgdcfligdYYXg'Zcf nci 'UbX'h\ Y'Yei ]da Ybh' 'AU\_Y gi fY'nci 'UV]XY'Vmih\ Y'Zc``ck ]b[ 'fi `Yq.

- %" HYghih Y'lfUWrcf'UhiUʻgʻck ʻgdYYX'UbXʻ]bWYUgYʻh YʻgdYYXʻgʻck `n'i 5 dd`mih Yʻ6 fU\_Ygʻga cch `mihcʻXYhYfa ]bYʻh Yʻghcdd]b[ `W\ UfUWhYf]gh]Wg cZh Y'HfUWrcf'UbXʻ=a d`Ya Ybh''``5 gʻmci `]bWYUgYʻh YʻgdYYXʻcZh Y HfUWrcf'h Yʻghcdd]b[ `X]ghUbWY`]bWYUgYg"'`8 YhYfa ]bYʻh Yʻa Ul ]a i a gUZYʻlfUbgdcfhigdYYXʻZcf'mci `UbX'h ]gʻ9 ei ]da Ybh'
- &" 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.



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

6 Y'Uk UfY'cZh\ Y'cdYfUh]b[ 'WcbX]h]cbg"'8 c'bchicdYfUhY'h\ Y'H fUWcf k ]h\ 'k YU\_'cf'ZUi `hm'VfU\_Yg"''K\ Yb'cdYfUh]b[ 'Xck b'U\ ]``'cf'cb'k Yh cf'fU]b'g`]W\_'fcUXgžh\ Y'VfU\_]b[ 'X]ghUbWY]bWYUgYg. i gY'Yl hfYa Y WUfY'UbX'fYXi WY'mci f'gdYYX"''K\ Yb'cdYfUh]b[ ']b'hfUZZWU'k Umg'i gY h\ Y'HfUWcftg\;ZUg\ ]b[ 'k Ufb]b[ '`][\ hg'UbX'fYXi WY'nci f'gdYYX"''6 Y Uk UfY'cZhfUZZWUfci bX'mci 'UbX'k UhW' 'ci hZcf'h\ Y'ch\ Yf'[ i m'''ns 1962

K5FB-B:

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.

K5FB-B; °



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. \*UI /43+



K5FB-B; °



Always read carefully and comply fully with the manufacturers instructions when handling oil, solvents, cleansers, and any other chemical agent. \*UI /44+





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

85B: 9F°



KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. 



85B: 9F°



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. \*UI /47+

# **G5**: 9 HM



B9J9F i gYXfi [ g'cf'U\t\ c'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. **B9J9F** 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. \*UI /49+



85B: 9F°



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. \*UI /4; +

K5FB-B:



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. \*UI O/3+

85B: 9F°



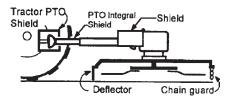
There are obvious and hidden potential hazards in the operation of this Mower. REMEMBER! This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care 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. \*UI O/4+



85B: 9F°



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. \*UI O/5+



85B; 9F°



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. \*U O/6+

K5FB-B: °



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. \*UI O/7+



K5FB=B:



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. "\*II O/8+

K5FB-B:



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. \*UI O/9+

K5FB-B: °



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. "\*U O/:+

K5FB-B;



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.





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. ""\*UI O/32+

Safety Section 1-8

K5FB-B; °



Do not mow with two machines in the same area except with Cab tractors with the windows closed. \*\*U O/33+

85B: 9F°



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. GHCD'ACK=B; '= 'D5 GG9 F G6 M 5 F9 'K + B' \$\$ 'M5 F8 G'I B! @ GG.

- -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. \*UDO/3+



85B; 9F°



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.

85B: 9F°



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. \*UDO/5+



K5FB±B;



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



K5FBB; °



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.

Í K UJhữa ]bi hY""GUj Y'Ư`]ZY°Î

Safety Section 1-9



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

85B; 9F°



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

\*UDO /9+



85B; 9F°



When transporting Boom Mower on a truck or trailer, the height or width may exceed legal limits when the boom is in the transport position. Contact with side or overhead structures or power lines can cause property damage or serious injury or death. If necessary lower boom to reduce height and/or remove mowing head to reduce width to the legal limits. \*UDO/:+



85B; 9F°



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



85B; 9F°



Each Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you need assistance with Couterweight Procedure. \*UDO/33+



85B; 9F°



Always disconnect the wire leads from the mower pump solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on without warning and cause immediate dismemberment, injury or death. ""UDO//34c+



85B; 9F



The flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels during forward travel). BYj Yf cdYf UhY'h Y W hYf 'g\ UZi]b 'h YfYj YfgY'fchhi]cb'Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.



### K5FB-B;



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.

### K5FB-B: °



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. K Ug\ \ UbXg`UZhYf`\ UbX']b[°

Tiger mowers use balanced and matched system components for blade carriers, blades, cutter-shafts, 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.



±b`UXX]h]cb`hc`h\ Y`XYg][ b`UbX`WcbZ[ i fUh]cb`cZh\ ]gʻ=a d`Ya Ybhž]bWi X]b[ `GUZYhmG][ bg`UbX`GUZYhm 9 ei ]da Ybhž\ UnUfX`Wcbhfc``UbX`UWW]XYbhidfYj Ybh]cb`UfY`XYdYbXYbhii dcb`h\ Y`Uk UfYbYggž WcbWfbž dfi XYbWfžUbX`dfcdYf`lfU]b]b[ `cZdYfgcbbY`]bj c`j YX`]b`h\ Y`cdYfUh]cbžlfUbgdcfhž a U]bhYbUbWfž UbX`ghcfU[ Y`cZh\ Y`a UW ]bY"`FYZYf`U`gc`hc`GUZYhmA YggU[ Yg`UbX`cdYfUh]cb ]bglfi Wh]cb`]b`YUW`cZh\ Y`Uddfcdf]UhY`gYWh]cbg`cZh\ Y`H fUWcf`UbX`9 ei ]da YbhA Ubi U`g"`DUm WcgY`UhhYbh]cb`hc`h\ Y`GUZYhmG][ bg`UZZ|I YX`hc`h\ Y`HfUWcf`UbX`9 ei ]da Ybh' (sG-18)



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









- 1 Study and understand Operator's Manuals, Safety Signs, and Instructional Decals for tractor & flail mower to prevent misuse, abuse, & accidents. Practice before operating mower in a confined area or near passersby.
- Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
   Allow no children on or near implement or tractor. Allow no riders on tractor or implement. Falling off can cause serious injury or death from being runover by tractor or mower or contact with Flail Mower Blades.
- 3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seatbelt fastened securely and snugly to prevent injury and possible death from falling off or tractor overturn. Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, and Ear Plugs are recommended.
- 4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain that area is clear before lowering or folding.
- 5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding implements. Slow down when turning and on hillsides
- Install "Restrictor in folding circuit to slow down lowering and unfolding if action is faster than is desirable
- 6. Make certain that SMV sign, Warning Lights, and Reflectors are clearly visible. Follow local traffic codes.
- 7. Never operate with Flail Mower or Folding Section raised if passersby, bystanders or traffic are in the area to reduce possibility of injury or death form objects thrown by Blades under Shields or implement structure.
- 8. Before dismounting, secure flail mower in transport position or lower to ground.
- Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent entanglement in rotating parts which may cause injury or death

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









00725746 INSIDE OF CAB



THROWN OBJECTS







### **KEEP AWAY - ROTATING BLADES**

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

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

Safety Section 1-12

PART NO. LOCATION

002369

HYDRAULIC TANK

00769737 MOWER DECK



PART NO. LOCATION

00758194 MOWER DECK



02962764 MAIN BOOM, SECONDARY BOOM, MAIN FRAME



02962765 MAIN FRAME

02965262 HYDRAULIC TANK



PART NO. LOCATION

**CUTTING BLADES** 





02967668 MOWER DECK

### **KEEP AWAY - ROTATING BLADES**

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

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

02971123 HYDRAULIC TANK



03200285 OUTSIDE OF CAB

# POLYCARBONATE WINDOW

REFER TO OPERATORS MANUAL FOR CLEANING INSTRUCTIONS

22645 INSIDE OF CAB

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

22839 MOWER DECK

P/N22839



PART NO. LOCATION

22840 INSIDE OF CAB

# **WARNING**

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

24028

24028 MOWER DECK

25387 INSIDE OF CAB



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

13.5" x 7" 31513

Safety Section 1-15

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. P/N 27001

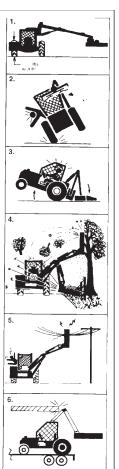
PART NO. LOCATION

27001 **INSIDE OF CAB** 

31935 INSIDE OF CAB



- 1. EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POLINDS. 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 ON FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL. AND POSSIBLE INJURY.
- 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.
- 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



32707 HYDRAULIC TANK



42350 MOWER DECK

# **ATTENTION**

SERVICE HYDRAULIC SYSTEM
WITH UNIVERSAL TRACTOR
HYDRAULIC OIL.

32708

PART NO. LOCATION

32708 HYDRAULIC TANK

# **A** CAUTION

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

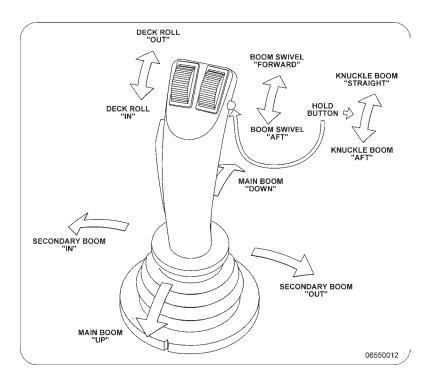
32709 INSIDE OF CAB

33224 MOWER DECK



33438 MAIN BOOM

# PART NO. LOCATION



06550012 INSIDE OF CAB

# Read & understand the Operators Manual. Wear Your Seat Belt. Keep all shields and guards in place. Make sure equipment is in proper working condition. Never attempt to get off or on a moving tractor. Never allow riders on tractor or equipment. Only start the tractor from the seat with the key. Always inspect the area before mowing. Remove all foreign debris. Always keep bystanders and coworkers a minimum of 300 feet away. Never allow the mower blades to contact solid objects or foreign material. Never approach rotating elements. Disengage the PTO, place transmission in "Park", set parking brake, shut off engine, and remove key and wait until all rotating motion has stopped before leaving seat.

33743 INSIDE OF CAB

Safety Section 1-18

PART NO. LOCATION



RED 42399 REFLECTIVE TAPE MOWER DECK



AMBER 4240006 REFLECTIVE TAPE MOWER DECK



6T3217 MOWER DECK



6T3219 INSIDE OF CAB

6T3220 FRONT PUMP MOUNT

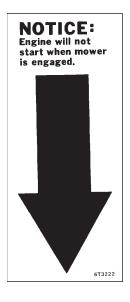
# **A** CAUTION

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



6T3225 INSIDE OF CAB

# **A** WARNING

# DO NOT OPERATE THIS EQUIPMENT WITH BYSTANDERS IN THE AREA!

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

6T-323

PART NO. LOCATION

6T3230 INSIDE OF CAB

# **A** CAUTION

- PROCEDURE FOR TRAVEL POSITION.

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

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

6T3231

6T3231 INSIDE OF CAB

# **A** CAUTION

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

T-3233

6T3233 HYDRAULIC TANK

# **A** CAUTION

CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY RESULT FROM IMPROPER MAINTENANCE.

6T3234

6T3234 INSIDE OF CAB



6T3236 MOWER DECK

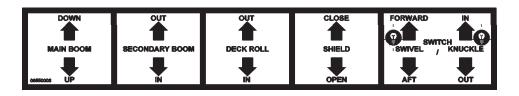
Safety Section 1-21



WHEN CUTTING HEAVY BRUSH. **BLADE BOLTS SHOULD BE INSPECTED HOURLY AND** RETORQUED TO 600 FT. LBS.

6T3237

PART NO. LOCATION 6T3237 INSIDE OF CAB



06550008 **INSIDE OF CAB** 

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

IMPORTANT

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

SPINULE ASSEMBLY.
SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS.

6T3243 INSIDE OF CAB

**GREASING INSTRUCTIONS** 

**CUTTER SHAFT BEARING** 

**GREASE EVERY 8 HRS. OR DAILY** 

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

6T3249A MOWER DECK

GREASING INSTRUCTIONS **GROUND ROLLER BEARING** 

GREASE EVERY 8 HRS. OR DAILY

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

6T3261 MOWER DECK



TB1011 MOWER DECK

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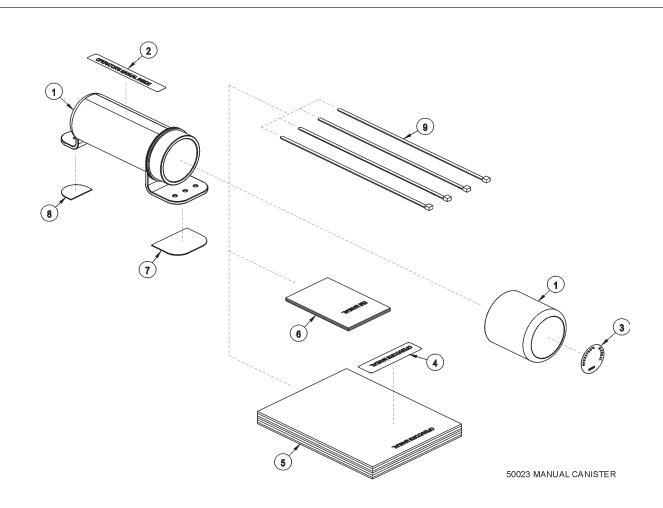
# **Tiger Corporation**

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

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics Cold Temperatures 0°F Start-up  Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobilfluid® 424 Mobil DTE® 25 Mobil DTE® 18M
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Drive Shaft Coupler (Rotary and Flail) Drive Shaft Yoke, U - Joint and Stub Shaft	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	Tiger Part #25351

34852 HYDRAULIC TANK

Tiger PN 34852 O



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ISTER

### BCH9.

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. 751 H-CB'!5JC-8 8F=@GB; '< C G G-BHC'I B?BCK B'5F95 G 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.

# : 989F5@@5KG5B8F9; I @5HCBG

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"

### 9a d'cmYf!9a d'cmYY CdYfUrcf FY[ i 'Ur]cbg

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

### H\ ]g'5 WhGYY\_g.

"...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..."

### 81 H=9G

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.

### CG<5 FY[i 'Un]cbg

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."

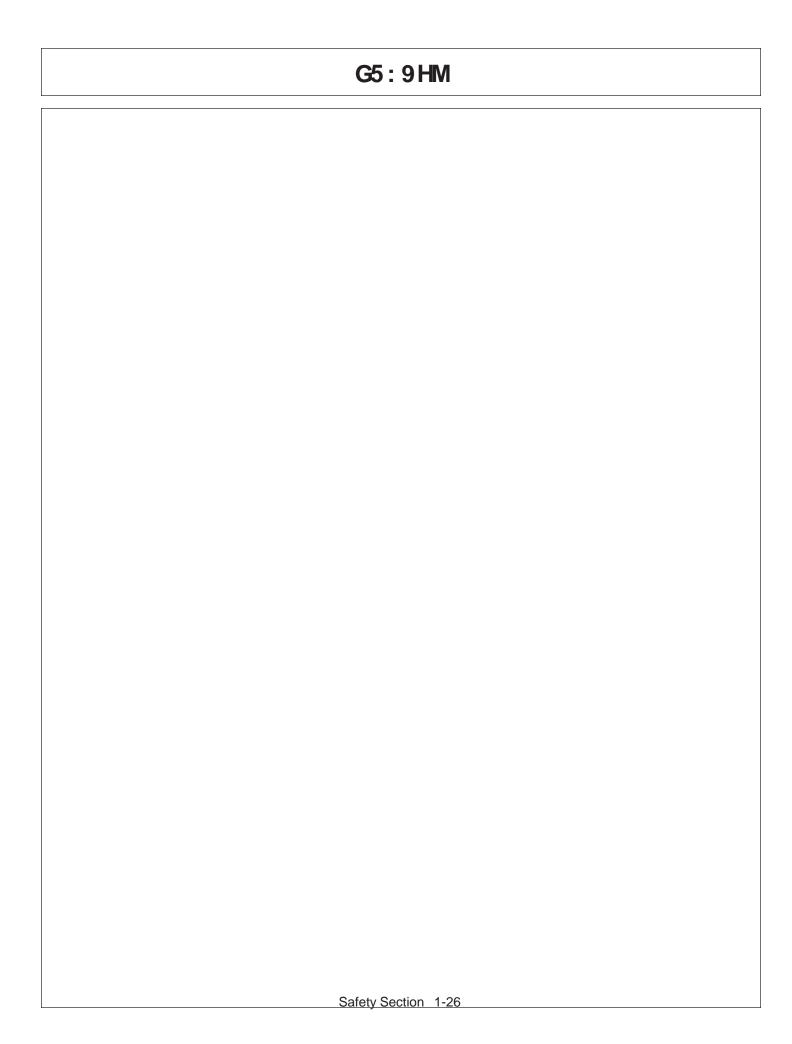
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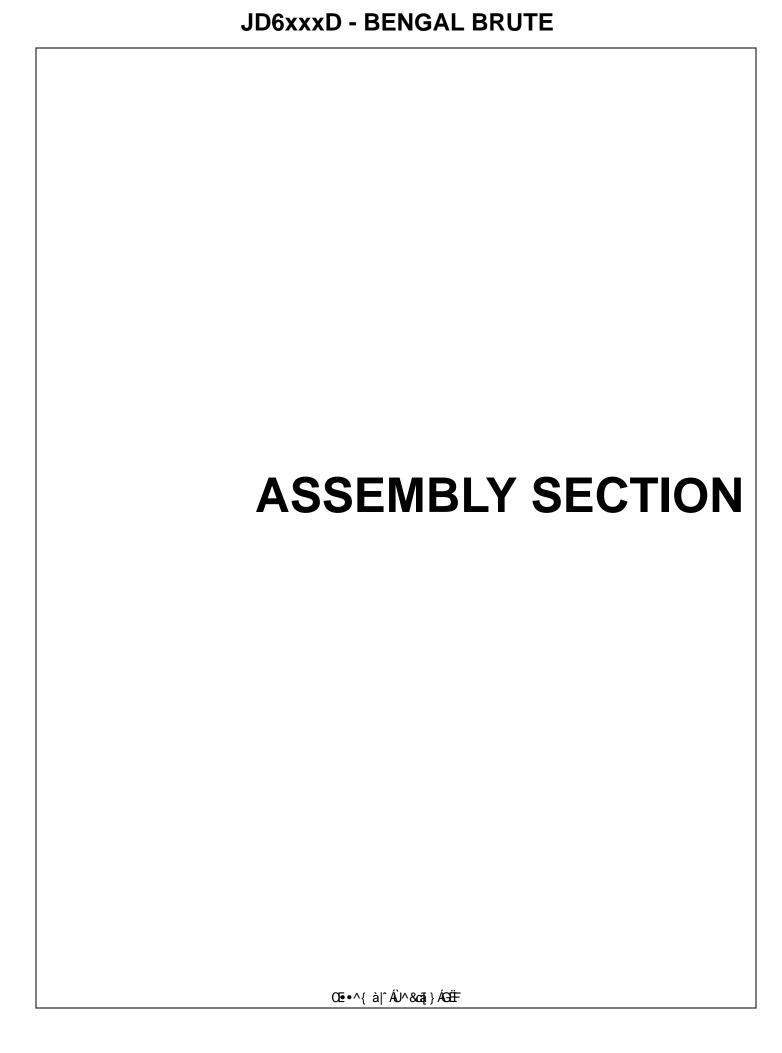
To ensure employee safety during Tractor and Implement operation, it is the employer's responsibility to:

- 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.

### 7\ ]X'@Vcf'I bXYf'% 'MYUfg'cZ5[Y

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





### **ASSEMBLY**

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

**≜**WARNING

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# TRACTOR PREPARATION

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# MAINFRAME INSTALLATION

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# **ASSEMBLY**

### CRANKSHAFT ADAPTER

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### DRIVESHAFT AND FRONT PUMP MOUNTING

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CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-C-0091)

### **ASSEMBLY**

# **REAR PUMP MOUNTING**

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CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-JD-0241)



# **ADJUSTING REAR WHEELS**

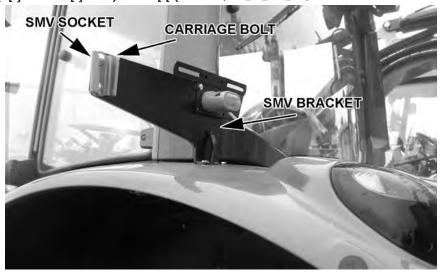
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#### POLYCARBONATE SAFETY WINDOW

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### SMV BRACKET FOR LRS APPLICATIONS

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# MAINFRAME INSTALLATION

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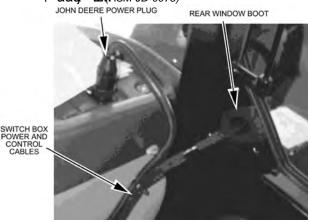
#### **SWITCHBOX WIRING**

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NOTE: The RED wire from the JD power plug should not be used because it is ALWAYS "Hot". +12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THE RED WIRE MUST BE FUSED AT THE SOURCE LOCATION WITH A CLOSED END CONNECTOR (# 34538).

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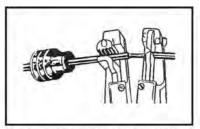
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# WEATHER-PACK / METRI-PACK ASSEMBLY

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

(ASM-C-0009)



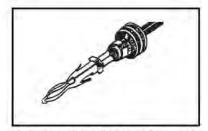
Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.

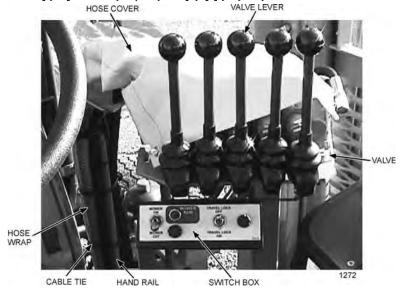


Put terminal in crimping tool, then position wire and seal in place.



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

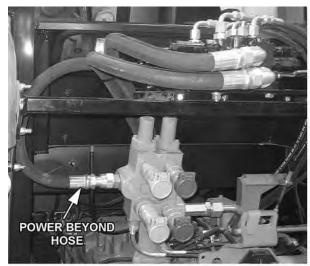
# MANUAL SWITCHBOX MOUNTING

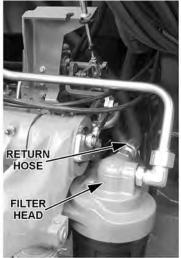


(ASM-C-0053)



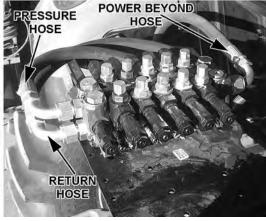
# TRACTOR PLUMBING





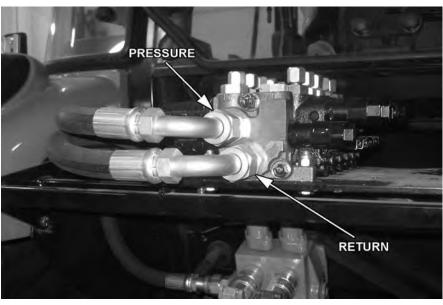






#### MANUAL LIFT VALVE PORTS

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(ASM-C-0102 JD6xxxD)

#### **VALVE MOUNTING**

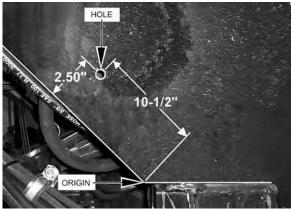
Offcææðón@ Á^ækýækç^Á; [ˇ] cēj \* Ásilæ&\^cÁt Ás@ Á^} å^¦Á; Ás@ Ádæðct ¦Ás^Á^{ [çēj \* Ás@ Ácç [Á^æás[|o•Á;] Ás@ Ádæðct ¦Ás^Á^{ [çēj \* Ás@ Ácç [Á^æás[|o•Á;] Ás@ Ádæðct ¦Æh\)^^Áējiˇ•dææði} Ácc [Á^æás[|o•Á;] Ás@ Ádæðct ï æð^Ae]i Ás@ Ádæðct ï æð^Áe]i Ás@ Ádæðct ï æð^Áe]i Æðón Áiæðct í Édæðct í Ásæðct í Édæðct í É

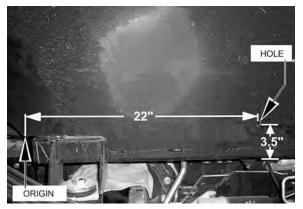


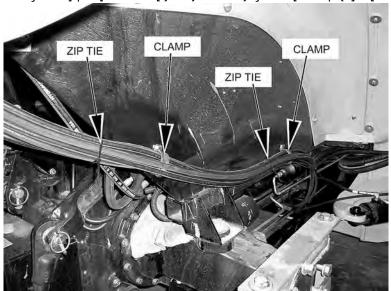
#### **HOSE AND WIRE ROUTING**

V@Á^&[}åÁ@[^Á@[`|åÁ`}Á¸ædæ||^|Ág ÁœÆá[cc[{Á\å\*^Á;ÆóœÁ;@^|¸^||ĒÁTæ\Áo@Á @|^ÁGGÁ¦[{Ác@Á;|ðtājÁæ;åÁHË Á;|{Ác@Áa[cc[{Á\å\*^ÈÁ\/•^Ác@Ág æ\*^•Áa^|[¸Á;¦Á |^~\^}&^È

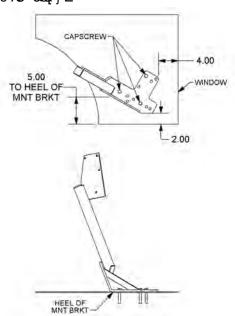
NOTE: DO NOT CUT INTO TUBES / HOSES / WIRES WHEN DRILLING THROUGH METAL OR PLASTIC! DO NOTE: DO NOTE:







#### CABLE CONTROL LEVER STAND





 $V@\dot{A}^* \grave{a}\grave{a}^! \grave{A}_{i}[ c\dot{A}^* ) \mathring{a}^! \grave{A}_{i}@\dot{A}^* \grave{A}_{i} \mathring{a}_{i}] \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i} \mathring{A}_{i}\&\dot{A}_{i}\&$ 



# **SELECTOR VALVE INSTALLATION**



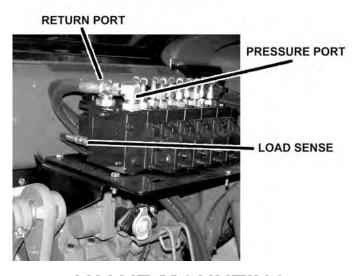
# \*NOTE ON HUSCO CONTROL VALVES\*



# **ELECTRONIC LIFT VALVE PORTS**

(ASM-C-0089)Á

#### **DANFOSS VALVE**

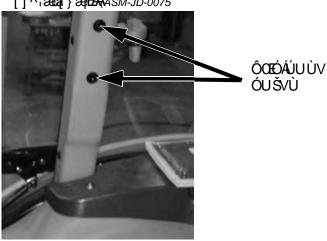


# **VALVE MOUNTING**

Officease@ko@ Á^ækfpætp^Át [ \* } cāj \* Áal æst ^oÁt Ác@ Á^} å^!Át Ác@ Át æstt !Áa^Á^{ [ çāj \* Ác@ Á c¸ [ Á^ækát [ lo Át } Ác@ Át æstt !Áa^Á^{ [ çāj \* Ác@ Á c¸ [ Á^ækát [ lo Át } Ác@ Át æstt ] cÁ ætát [ lo Át } Ác@ Át æstt ] óÁ ætát ætít ] čij \* Áal ætít ] óÁ ætát ] óÁ ætát ] óÁ ætát ætít ] čij \* Áal ætít ] čij \* Á



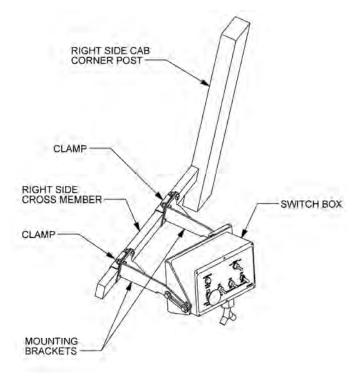
#### JOYSTICK CONTROL MOUNTING



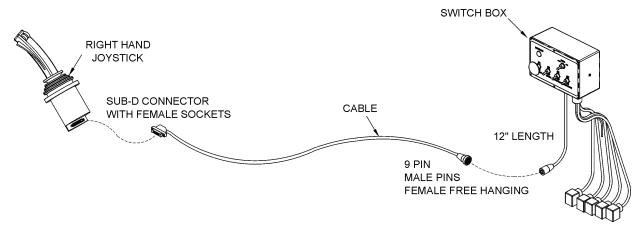


#### JOYSTICK SWITCHBOX MOUNTING

 $\tilde{S}[8aec^{\dot{A}}\tilde{G}\tilde{G}\tilde{A}\tilde{a}^{\dot{A}}\tilde{a}^{\dot{A}}\tilde{A}^{\dot{A}}] = \tilde{A}(\ \hat{A}(\ \hat{A}$ 



# **BOOM JOYSTICK CONTROL CALIBRATION**



V@àÁÖæ}-{••ÁÚXÕHGÁ&[}d[|Ásæbç^ÁsaÁ;[,Á~~~ã]]^åÁ,ão@Á@ã@\Ë^•[|~oã}}Ásæ&čæg[¦•Á;}Á TæājÁÓ[[{ÊÁÙ^&|}åæ\$^ÁÓ[[{ÊÖ^&\ÁÜ[||ÊÁæ}åÁÛ,ãç^|Á\*}&cāj}•EÁÁ@•^Áæ&c`æg'¦•Á@æç^Á % ad& cáip^Ázeĕ|cÁi[}ãi[¦āi;\*+HŽÁV@ ÁÖ^&\ÁÙ@ A\Û@ A\Û@ A\Î A\@ A\Î A\B (A • Á; [cÁ@ eqe;^A/A ad& cáip,^Ázeĕ|cÁi[}ãi[¦āi;\*+HŽÁ\  $V @ As ^ \bullet cab As A & a A &$ •][[|Ás[Áː||ÁGQHŰ||:c+ÉÁsc) åÁiÍÃÁát} æþÁs[|cæt^Á;ā|Aí@eóÁc@Á:][[|Ás[Áː||ÁAQHÚ|:c+Ás[Ác@ATæā]HÁ  $\dot{U}$ ^&[}åæf^ÊsæfåAÛ\_ãc^|Ácæfc^Ár^&cāf}]•ÈMÁU}Ác@ÁÖ^&\ÁÜ[||Á\*}&cāf}ÁæáHlÃÁðf}ædÁc[|cæt^Á , āļļÁ @āxÁs@ Aģadç^Á;][[|Ág Á;||ÁQQĒÚ|¦c+Ása);åÁsaÁìÌà Á;ā}}adÁsē∮, [|cæt^Á;ā]ļÁ @āxÁs@ Á;][[|Ág Á;||Á %OË [ | cHĒÁGÁS) ÁSESC œst | Á ão@ÁSEScão^Ázĕ | cÁ [ } ãī | lã \* Á^&^ão^•ÁseÁ ã } ætÁ; [ { Ás@ Ási^•cã& Ás@æsÁ • @ chal[] } EXXXVIII• [ /ĀsiAs@ | ^ /Āsi Asa) /Āsi c^ | } and Asas ( ) Asi Asas ( ) and Asas ( [čehÁse) å Án @ ohát[] ÈÁKOE; Áhæa&cãe,^ Áæĕ | cehÁs[} å ããã[} Á&æĕ • ^ • Ás@ Ásæ&cčæe[¦ Ás[Ás¦ãe,^ Ás@ Án][[| Ás[Á }^`dæd£A@oAa[;}ÊAa)åAx&aãcæAAaAA6åa+AŠÒÖA(;}Ab@A(;]A(Ab@Ax&c`æd;lÈAV@Ax&aãc^AæiloA &a) Áàn Á&a) &n |n å Áàn Áã ] | Á&n &|ā \* Ás@n ÁT æ cn | ÁÛ, ão&@ÁU ØØ+Áse) å Ás@n ANU Þ +ÊÁ @ãk@Án•n e Á c@ Áæĕ |cÁ; [ } ãī; ¦ã; \* Êsē; å Á&æĕ • ^ • Ás@ ÁŠÒÖÁ; } Áī; ] Á; ~Ás@ Áæ&cč æg; ¦Ás ^ Átő; | ^^ } +Ásēt æā; ÈÈ

A CAUTION V@Á(1^• cā& Á&() d[|Áa Á~~~ a]]^åÁ, ão@Á ā\*) æþÁæåæ; cā() Á;[c^) cā( ^ c^) tÀ

Ü`}Áda&d[¦ÁsæÁ[¦{ækÁ[]^¦ææã;\*ÁÜÚTÁ(fÁsæåbŏ•óÁs@Ai^oæã;\*•Ásæ•Á[||[¸•È

Set the dead band compensation potentiometer first.  $\dot{U}^{\hat{A}}(\hat{A}) = \dot{A} + \dot{A}$ 

**Setting Signal Adaptation Potentiometers:** 



#### MAIN BOOM: % \$\alpha \delta \( \begin{align\*} \delta \delt

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

#### % D+ÁÚ[ dÊÓ[ [ { ÁÖ[ ` } KÎ ÊÎ ÁÙ^&[ } å•

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

#### SECONDARY BOOM:% EÁÚ[ ¦ŒÁÓ[ [ { ÁUˇ dÌ ËF€ÁÛ^&[ } å•

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

#### %Ô+ÁÚ[¦dÊÓ[[{ÁQ; kÌË=€ÂÙ^&[}å•

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

#### DECK ROLL: %0\(\frac{1}{2}\)\(\hat{O}\)\(\hat{A}\)\(\hat{I}\)\(\hat{A}\)\(\ha

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

# %Á+ÁÚ[¦ŒÊÖ^&\ÁQ\KÁVæ+\*^oÁ;Ë!ÁÙ^&[}å•ÁĢ; oÁÖUÁ>UVÁ:•^ÁŠã[ãxÁÙ&|^, D

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

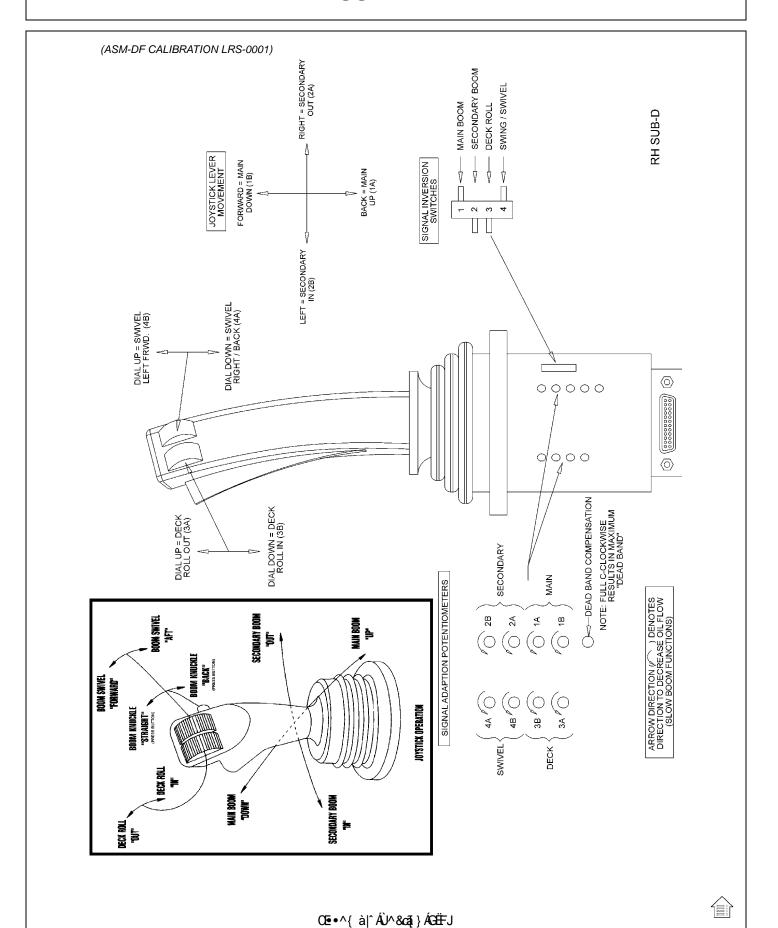
# BOOMÁSWIVEL:%QEÁÚ[ ¦ dÊÓ[ [ { ÁQEdYÁÁFI ÉFÎ ÂÛ^ &[ } å•

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

#### % AÚ[¦ ĐÁO [ { ÁO [ ; æ å KFI ËFÎ Á Û ^ & [ } å•

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





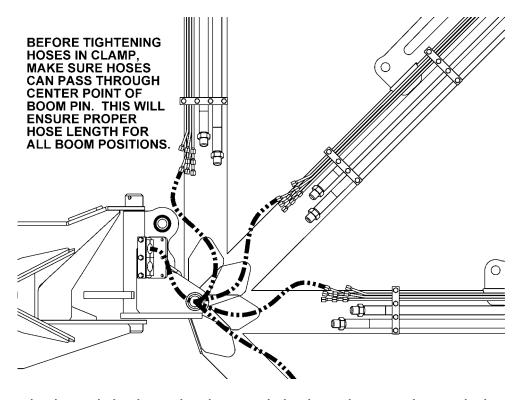
# **REAR STOW BENGAL HOSE ROUTING**

WARNING NOTE:Á/@ Á` åå^} Á^|^æ•^Á; Á@ 妿 |æÁ; |^••` |^Æ[` |寿ě•^Æ@ Á` åå^} Á { [ç^{ ^} oḥ Áç^|^ Á@æç^ Á; æde ÞÁŒ; [} ^Æ; Ás@ Á; Ás@ •^Á; Æœ•^ Á; æde Æ[` |åÆa^ Á·^ç^|^|^ Á@ |oÁ [ |Á Ā]^ å ÞÁÖU ÁPU VÁŒŠŮ Y Æ@•^Á@ 妿 |æÁ@•^•Æ; ÁÓÜ ÒŒS Á; IÁÓWÜ Ù VÆM, Á; |°ç^• ÞÁT ^œ° ¦^Á @ å|æ |æÁæā; |^Á; æ^Á; |^Á; æ^Á; |^Á; æ^Á; |^Á; æ ^Á; |^Á; æ ^Á; | &^^åÆ; | & Agé; æ æ; | À E



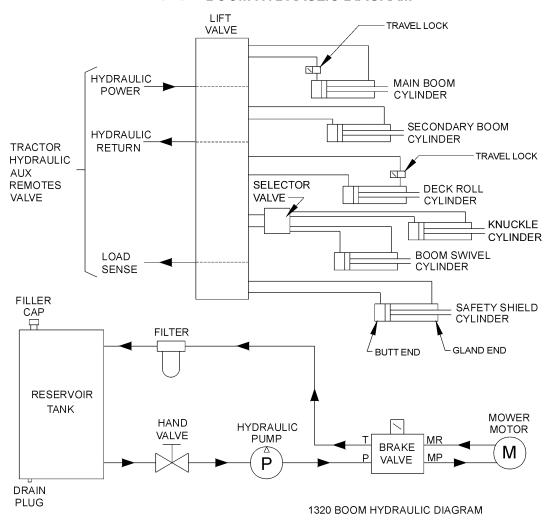


# REAR STOW BENGAL HOSE ROUTING (CONT.)



(ASM-C-0094)

#### **REAR STOW BOOM HYDRAULIC DIAGRAM**



# FILLING HYDRAULIC RESERVOIR

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

(ASM-C-0004hydro resrv)



#### WHEEL WELL HYDRAULIC TANK INSTALLATION

 $Q \bullet cad|Aad|Aaca; * \bullet Aad; a^{A} \bullet Aaca; a^{A} \bullet Aa$ 

 $\dot{U} | \frac{\partial \mathcal{L}}{\partial x} \wedge \dot{A} \cos \dot{A$ 

Ù^&` \^Ác@ Ázzz \ Á ãc@Ác@ Á@zzta zzt^Á | [ çãa^å È

#### WHEEL SPACERS

 $Y @ \} \acute{A} [ [ * ] \acute{A} * \acute{A} = \mathring{A} = \mathring{$ 

# **INSTALLING O-RING FITTINGS**

Q. • cæ|jā, \* Án dæāt @dÉA Í óÁæ) åÁJ€óÁUËā, \* • Á^` ǎ^ • Án@æÁr@ÁUËā, \* Áæ) åÁ, æ @ ¦Áà^Á j Áæt æā, • oÁr@ • ¸ ãç^|Áà[å^ÈÁQ•^!oÁa@Á¸ãç^|Áæ) åÁĕ ¦} Áā¸Á } cāļÁs@Á¸ãç^|ÆsÁ¸[ā, c³áÁā, Ás@Áà^• ā^åÁàā^&cā, }Áæ) åÁUË |ā, \* Á&[} cæ&oÁæ Á; æå^ÈÁAP[|åÁ¸ãç^|Áā, Ár^oÁà ā^&cā, }Á¸ãc@ÁæÁ¸¦^} &@Áæ) åÁč ¦} Ár@ÁUËā, \* Á; ŏÁæ, æê - ↓[{Ár@Á, ãç^|Áà[å^Áæ) åÁ&æ}^~`||^Áæt @^}} ÈÁ(ASM-C-0056)

# **INSTALLING NATIONAL PIPE FITTINGS**

 $Y @ \}^{c} \stackrel{\text{id}}{=} \bullet \text{cat} | \vec{a} \wedge \hat{\textbf{A}} \cdot \vec{a} | \vec{a} \wedge \hat{\textbf{A}} \cdot \vec{$ 

# PREFORMED TUBE INSTALLATION

 $\tilde{S}_{ab}(\hat{A}_{b}) = \tilde{A}_{b}(\hat{A}_{b}) + \tilde{A}_{$ 

a • cæ | Ás@ { Á[ [•^|^ Ár} } d Ás@ Ás|æ { ] Ár | æe^• È

OE; a) \* ^ Ác@ Áč à^• Áa; åÁQ • ^ • Áæ; Á; da ^ åÁa; Ác@ ÁÔ[{ [] ÁÚæ; dù ^ &ca; } ĚÁQ • cæ; Ác@ Áč à^• &[• ^ • cá; Ác@ Áa[] { Áæ; Áa• cÊà; à \* Ásæ; ^ ; Á; cá; Á; ā; &c@á; Æ; à^• ÈÁÚ; æ& Ác@ Á; c@; Áč à^• Á; \* œ; a^• Á; cæ; Á; cá; á, a &cæ; Á; a &cæ; A; a &cæ; A;

# **GENERAL HOSE INSTALLATION**

### **HOSE COVERING**

 $\label{eq:control_c$ 

U}Â,[}Ê&æàÁ}ã•Êc@Á,¦^••`¦^Áæ}åÁ^č¦}ÁQ•^•Á¦[{ Ác@Á&[}d[|Áçædç^Á,ā|Áæ+[Á;^^åÁ[Áà^ |[`ơàÁā•ãā^Ác@Á]![ơ&cãç^ÁÁQ•^Á;|æ]ÈÁÔ[ç^!Ác@Áçædç^Áæ)åÁçædç^Áãcā;\*•Á¸ãc@Ác@ÁQ•^Á&[ç^!

æ) åÁ^&` \^Á ão@Áo@ Á dā \* Á \ [ çãå^ å ÈÁASM-C-0058)



#### **ACCUMULATOR INSTALLATION**

Q• cæļÁc@Áæ&&`{ ` |æ[ | Áa | æ&\ ^ cÁ\ } Ác@Áā @Á\ æā | +æ{ ^ Á\ æ• cÁ\ | ÁacÁçæ¢ç^Á\ [ ` } cÉÁÁæ] | ā&æà|^ÉÁ ¸ ãcÁœ Á&æ} • &\^, • ÉÁ[ &\ , æ• @\• Áæ} åÁ] æ&\ • ÉÁÁæ} ] |ā&æà|^ÉÁ ¸ ãcÁœ Á&æ} • &\^, • ÉÁ[ &\ , æ• @\• Áæ} åÁ] æ&\ • ÉÁÁæ} ] |ā&æà|^ÉÁæ Á @¸ } Áş Ác@ÁÚæd• ÁÚ~&æi } ÉÁ\ Q• œф|Ác@Áæ&&`{ ` |æ[ | Áş Ác@Áa | æ&\ ^ cÁæ} åÁ\ &` |^ Á ãcÆæ Á @¸ } ÉÁQ• œф|Áãæā \* • Áæ} åÁ @• ^• Á[ Ác@Ás | ā å^|Áæ} åÁ&[ } d[ | Áşæ¢ç^Áæ• Á @¸ } Áş Ác@ÁÚæd• ÁÚ^&æi ÁU^&æi } ÉÁUse teflon tape on all pipe fittings (except O-rings). ÁÁASM-C-0012)

#### SOLENOID BRAKE VALVE

# TEMPERATURE GAUGE MOUNTING QUÚVQU Þ CŒŠD

# WHEEL WEIGHT MOUNTING

Ø[¦Áæ|Ádæ&d[¦•Á•ā]\*ÁæÁi[[{Á,[¸^¦ÉÁæÁ, @^|Á,^āt @Á, ā|Áa^Á^` ã^åÁ[¦Ás@Á^æÁ^æÁ^áã^Á ¸@^|ÈÁQÁ, ā|Áa^Á,^8^•æ^âÁt Á;[`}oÁs@Á,^āt @Áj Ás@Á, @^|Á•ā]\*Ás@Á[}\*Ásæð]•&¦¸•ÉÁ |[&\¸æ•@¦•ÊÁæç,æ•@¦•ÊÁ]æ&^¦•ÁÇĀÁæ]]|ææà|^DÉÁæ)åÁ@¢Á,`œÁ,^kåæë‡¦æ¢Áj Ás@ÁÚædœÁ Ù^&æ]}È

\(\tilde{\alpha}\rightarrow{\phi\alpha}\right

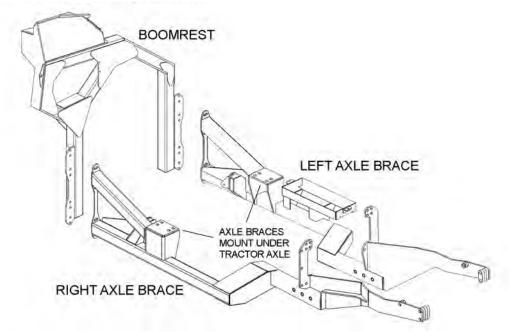
### **AXLE BRACE INSTALLATION**

 $Y \ \tilde{a} \ \tilde{a} \ \tilde{b} \ \tilde{c} \ \tilde{c} \ \tilde{d} \ \tilde{c} \ \tilde{c} \ \tilde{c} \ \tilde{d} \ \tilde{c} \ \tilde{c$ 

ÁÝ @}Ác@Á; æðj -¦æ; ^Æn Æn Án Án [•ãtā] ÞÁ^{ [ç^Ác@Ásæ]•&¦^,•Án} ^ÁnæÁsæÁzā; ^Ænd åÆnd] |^ÁsæÁc@^æåÁ |[&\ð]\*Ánd †} ^Átæ ^} dÐÁÜ/ð]•^¦cÁc@Ásæ]•&¦^,•Ánd åÁnd @^}Ánd @^}Ánd (;``^Án Áng Án Ác@Án ;``^Ás@ædóÁ |[&æe^åÁn Ác@ÁT æði c^} æð &^ÁÙ/&ðā]}Án Ác@áÁ; æð `æðÐÁVASM-MF-0013)



### RS AXLE BRACE MOUNTING



# RS BOOMREST MOUNTING

 $\hat{O}_{ab} \wedge \hat{A}_{ab} \wedge \hat{A$ 

# MAIN BOOM INSTALLATION

 $\begin{array}{c} \text{Offices}.@\acute{A}c@\acute{A}_{3} \wedge \acute{A} \wedge$ 

Q.• cad| Ás@ Áãcaj \* • Ásaj å ÁQ • ^ • Ás[ Ás@ Á; æāj Ási[ [ { Ás^ | āj å ^ ¦ Áj ^ ¦ ÁÚæto• ÁÚ ^ 8cāj } 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)



### SWIVEL BRACKET MOUNTING

Q•cæ|Ás@Áa[[{Á, ãç^|Áa|æ&\^oÁ;}d.Ás@Á ] ā,Áj,Áj,æ&^Á•ā;\*Ás@Á&æ}•&\^,•ÉA\*c&Ès@[\*\*@Ás@ÁQ|^Áa;Ás@Áa[••Áæ;åÁ,ā;ÈÁDUVÒHÁX@Á @æåÁ,Ás@Á&æ}•&\^,Á;\*•óÁa^Át;æååÁs@Át];}oÁ;Ás@Átæ&d;|È

Q • cæ||Áæ||Á,^, Án, ãç^|• Áæ) å Áãccāj\* • Án} Ás@ Án, āj\* Ásc^|ājå^¦Á, ãc@Án, ãç^|Án]^}āj\* • Áæ&āj\* Á ^æ&@Án c@ ¦ÞÁNOāccāj\* • Á, āļ|Áṣæ; Ánj Ás; ] ^Áæ) å Ásiāl^&cāj} Ási^]^} åāj\* Án} Á [ˇ¦Áæ]]|a&ææāj} LÁ,^-△¦Án[Á ^[ˇ¦ÁÚæ; er ÁÚ,^&cāj} Án¦¦Án[¦^Ás,^cæāj• È

Q• cad|Áa^adāj\*•ÁājÁs@Á; adājÁ¦ad; ^Áad; &Q; |Ár; |Ár@A; āj\*Ásc|ājå^|EÁA/@āÁ; æêÁ@aq;^Á ad;^adā^Áa^^}Áa[}^AÁr; |É

Q:• cæ||Ás@Á; ā; Āsc |ā; å^|Ásh^ç ^^} Ás@Ás[[{ Á, [\*] cā; \* Ás| æ&\ ^ó&c |ā; å^|Ásæ) &@, |Ásæ) å Ás@Á à[[{ Á, āç^|Á; ãc@Ás@Á,ā; • ÞÁ\$Q•^!cÁ[||Á;ā; • Ás@[\*\* @Ás@Ás[] Ásæ) å Ás@Ás[ ct { ÁQ |^Ás; Ás@Á;ā; • È CEccæ&@ÁQ•^•^•Á;[{ Ás@Ás[] d[|Á;æ¢;^Át[Ás@Á;ā;\* å\* Ás@Á;ā;å\* Åsc |ā;å\* |ÈÁ;ASM-C-0015)

#### **DECK ATTACHMENT**

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Before proceeding to the final preparation step, double check the complete assembly from the mainframe to the cutter head against the diagrams in the Parts Section for proper placement and assembly of all components. #ASM-C-0060)



### FINAL PREPARATION FOR OPERATION

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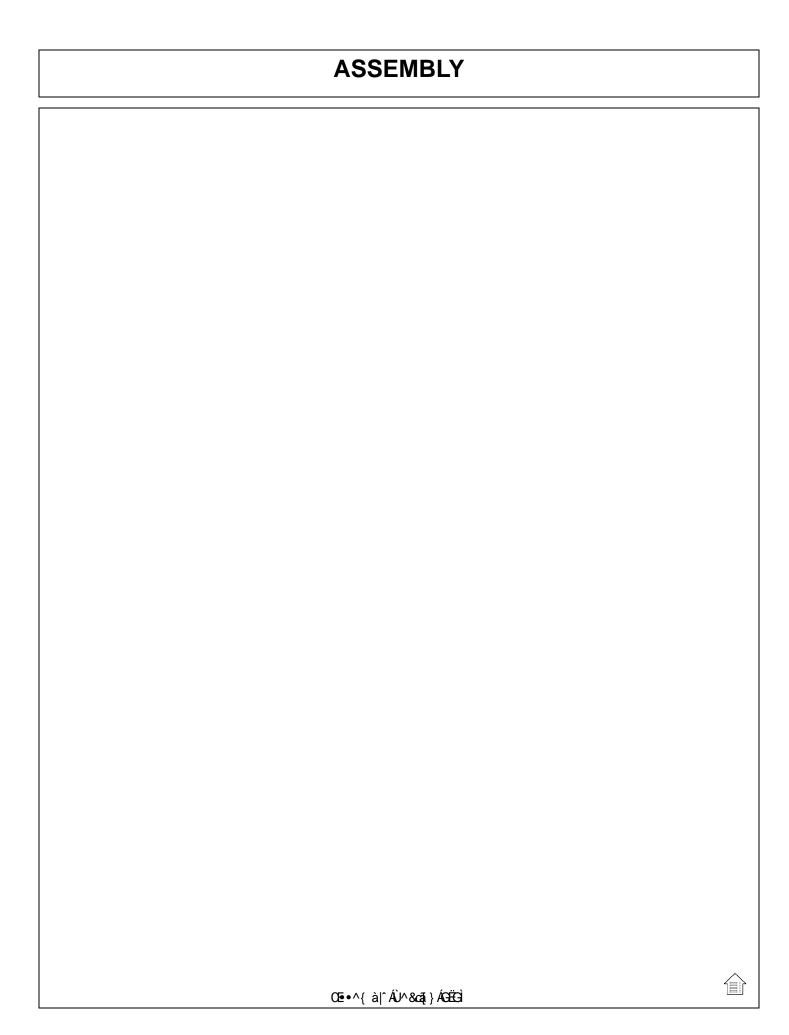
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# **MOWER TESTING**

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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)







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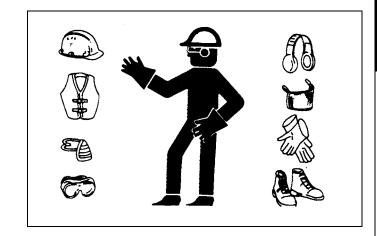
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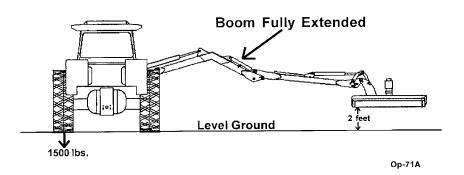
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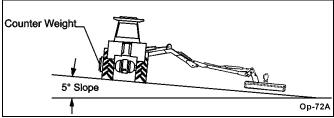
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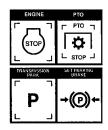
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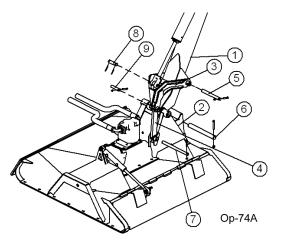
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#### **AWARNING**

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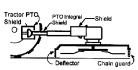
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#### **AWARNING**





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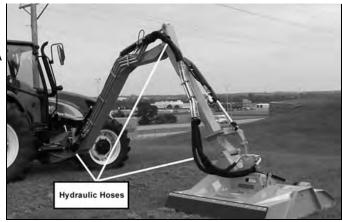
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Ô@&\Ác@ÁļˇãåÁ¹¸ç^|Áş Ác@ÁP^ 妿ĕ |æÁ¼æ)\Á¡}Ác@ V¦æ&q!Êæ; åÁæååÁ; ⼿Á^~ˇã^åĚŒ Ác@ÁæãÁœe Áà^^}Á; l&°åÁ; ˇớq Ác@ÁÔ^|āj å^!•Áæ; åÁP[•^•ÊÃǽt\*[^•Áṣ] q Ác@ P^妿 |æÁæ; \Áæ; åÁ^å\*&^•Áæ¸6; ['{^Á; Á; āÞÉT æã; œæð; Ác@Á; āÁ¹¸ç^|Á; ãc@ð; Ác@Á; ã œ́t æ\*\*^Á; &æç°åÁ;}Ác@Á; ãa^ [-Ác@Á¹^•^!ç[āÞÞ^ç^!ÁäjÁs@Áæ; \Áæà[ç^Ác@Á; ã œ́A\*æ\*\*^Á; Áæd[¸Á; lÁc@Á¢; æ)•ā; Á; -ÁæÁ; āÞÉV@Á; æ) {æð; œæð; •Á; !^••\*¦^Áææ°!ÁœÆ; Ác@Á; [¸^!Áœæ•Áà^^}Á\*)ÈÉÙæ; åÁ; -Áq Á; }^Á•āā^Á; @}Á¹^{ [çā; \*Ác@Áà!^ææ]!Áæð; ^|

#### **AWARNING**

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## **AWARNING**

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#### ÜUVŒÜŸÁŖÒŒŎÁŒÙÚÒÔVŒÞ

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Ò}• ` \^Á` àà^\Áå^.\^&d \• Áæ\^Á§ Á[• ãæ] } Áæ) åÁ } [ oÁsae( æt^å ÞÁÓU^] |æ&^Á, [ ¦ } ÞÁsi [ \ ^ } ÞÁse) åÁ {ã••ã;\*Á•∧&cã[}•Áã[{^åãææ^|^È

Ò}•`¦^Á@ 妿ĕ|æ&Á&;^•Áæ\$^Á;![]^;|^Á&[}}^&&^åÁ q Ás@ Á@ 妿ĕ |æ&Á; [q; lÈÁÔ@ &\Á; lÁ@ 妿ĕ |æ&Á |^æ\•Áæ|[} \* Á@|•^•Áæ} åÁãæ] \* • ÈÉÖUÁ⊃UVÁ • ^Á [-Á@/aec^Álae]^¦Ár¦Á&ada`a`[ada`ÁrÁ&@/&\Ár¦Á @ 妿ĕ|a&AfaAf^æà•È

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**AWARNING** 

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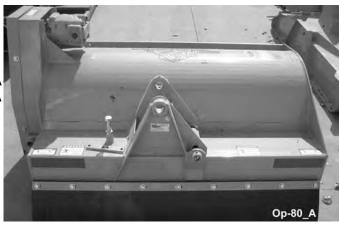
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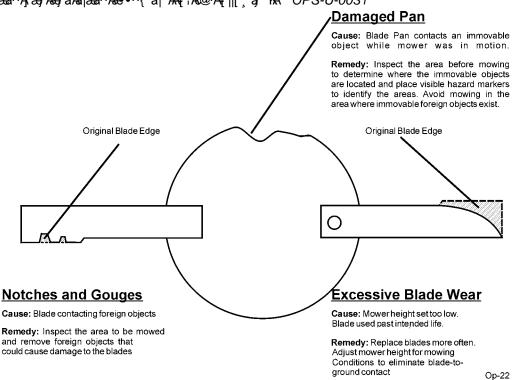
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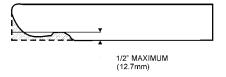


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A DANGER

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- Ű^^]Á\*[ \* \* ^ Á§ Ás@ Ás|æå^q Á \* ¦ ~æ&^ Ásd^Á, ¦^ ^ } dÉÁ, ¦
- ‴Õ[\*\*^•Án;¦Á&@aj]^åÁseh^æeÁsjÁs@÷Ás\*cœaj\*Ánå\*^Áseh^Ázeh\*^;Ás@æejÁnFBG÷UFGHÏ{{DBÁ;¦Á
- ″ V@^Á, æc^¦ãæ4Á;}Ás@~Á^æåā;\*Án°å\*^Á@æ•Ás^^}Á;[¦}Ásę æ°Ás^Á;[¦^Ás@æ;ÁrEDQFGÈi{{D-



Original Blade Edge

NOTE: Replace Blades in pairs after no more than 1/2" (12.7mm) wear Op-23

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# **Tractor PRE-OPERATION Inspection**



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Kgo	Eqpf kskqp"cv"Uctv" qh"Uj khv	Ur gekhke 'Eqo o gpvu'' kh'pqv'Q0M0
Vjg'hrcuj kpi 'nki j vu'hwpevkqp''r tqrgtn(		
Vj g'UOX''Uki p'ku'engcp''cpf ''xkukdng		
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Vj g'\tce\qt'dtcngu'ctg'\kp'i qqf 'eqpf k\kqp		
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Vj g'TQRU'qt'TQDU'Ecd'ku'kp''i qqf 'eqpf kkqp		
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Vj g'5/r qkpv'j kej 'ku'kp'i qqf 'eqpf kkqp		
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Vj g'RVQ'o cuvgt'uj kgrf 'ku'kp'r rceg		
Vj g"gpi kpg"qki"igxgriku"hwm		
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Vi g'ckt'hknygt'ku'ko'i gaf 'eapf kkap		

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# **DO NOT OPERATE an UNSAFE TRACTOR or MOWER**

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# **Boom PRE-OPERATION Inspection**



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Ocng aaaaaaaaaaaaaaaaaaa

**AWARNING** 

6 YZcfY`WcbXi Wijb[ 'h\ Y`]bgdYWijcbza U\_Y`gi fY`h\ Y`lfUWrcf`Yb[ ]bY`]g`cZZžU``fchUrjcb`\ Ug ghcddYX' UbX' h\ Y' hfUWrcf' ]g' ]b' dUf\_' k ]h\ 'h\ Y' dUf\_]b[ 'VfU\_Y' Yb[ U[ YX" A U\_Y' gi fY' h\ Y a ck Yf']g'fYgh]b[ 'cb'h Y'[ fci bX'cf'gYW fY'mV'cW\_YX'i d'UbX'U'`\ mXfUi `]WdfYggi fY'\ Ug VYYb'fY']Yj YX"

#### Table 1:

Кудо	Eqpf kkqp"cv"Uctv" qh"Uj khv	Ur gelkke Eqo o gpw' kh'pqv'Q0M0
Vj g'Qr gtcvqtøi'O cpvcriki'kp''vj g''tcevqt		
Cm'uchgv( "f gecnu'ctg"kp"r rceg"cpf "rgi kdrg		
Vj g'o qwpvkpi 'htco g'dqnu'ctg'kp'r rceg'cpf 'vki j v		
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Vj gtg"ctg"pq"etcemi"lp"dqqo		
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Vjg'j {ftcwrke'r wor'j qug'eqppgevkqpu'ctg'\kijv		
Vjg"j{ftcwrke"xcnxg"eqpvtqnu"hwpevkqp"rtqrgtn{		
Vj gtg"ctg"pq"rgcnkpi "qt"f co ci gf "j qugu		
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Vj gtg'ku'pq'gxkf gpeg'qh'j {ftcwke''ngcmı		
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Vj g"dqqo "uj kgrf u"ctg"kp"r rceg"cpf "kp"i qqf "eqpf kkqp		
Vj g'unkf ''uj qgu''ctg'kp''i qqf 'eqpf kkqp''cpf ''kki j v		
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Vjg"j{ftcwnke"oqvqt"oqvpvkpi"dqnvu"ctg"vkijv		
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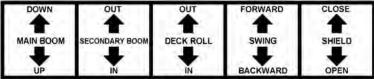
Qr gtcvqtøi'Uki pcwtg<

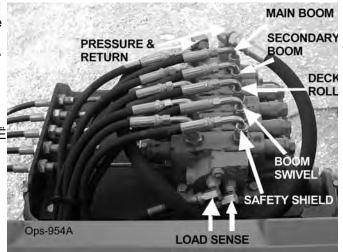
# DO NOT OPERATE an UNSAFE TRACTOR or MOWER

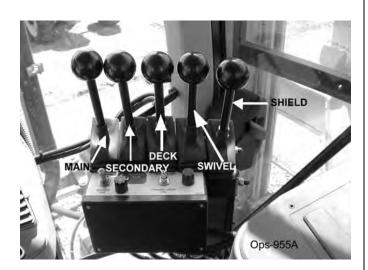
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Ecdng'Eqpvtqmgf 'O qy gtu

ODES[]d[|Án^ç^¦Ás^8ædÁa[abelÁt[Ás@Át]^Áa@],}Ás^|[]Áa^|[]ÁaA^Á,^ædÁs@ÁS[]d[|Áşædç^Át[Án^{a]aÁs@Át]^¦æt[¦Át~c@Án^ç^¦Á\*}8cat]}•È

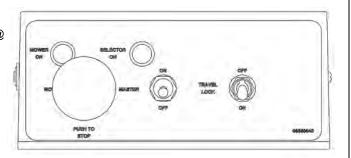






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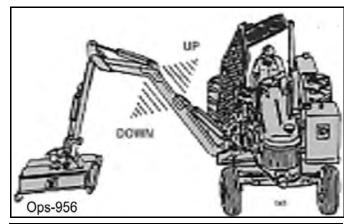
#### SAFETY SHIELD & DEFLECTOR OPERATION Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death. SAFETY SHIELD 1. Keep Safety Shield and Deflector fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades if persons are in the area. Before Cutting brush, trimming limbs, or other such operations, raise the Deflector and Safety Shield fully to allow the blades to contact the material if area is clear of passerby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area. 3. Repair or replace Safety Shield and Deflectors as DEFLECTOR needed. 4. Always transport with Safety Shield and Deflector closed. 02967867

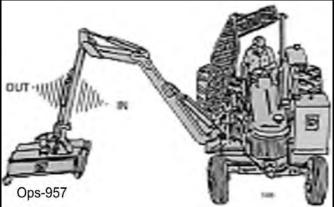
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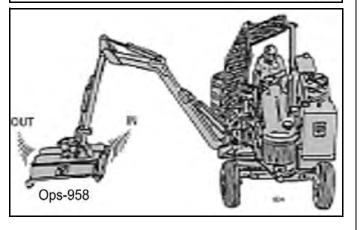
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ŠÒXÒÜÁRFÁT ŒÐ ÁÓUUT

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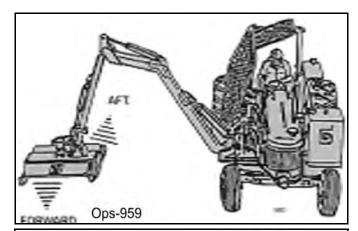
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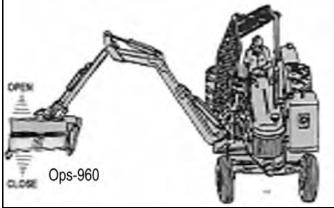
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ŠÒXÒÜÂN ÁÓUUTÁÙY QXÒŠ

ŠÒXÒÜÂÁÍ ÁÓUUT ÁÙP QÒŠÖ





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U]^\aeaa[}ÂÛ^&aa[}}ÁHËGG

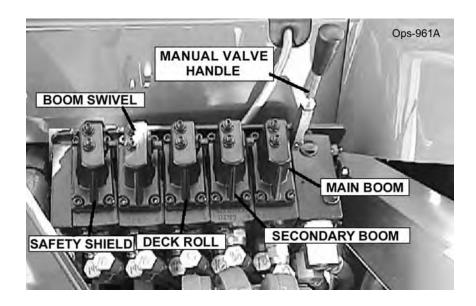
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**A** CAUTION

A CAUTION 8 C'BCHÁseec^{ ] OÁ[Á;] ^ læe^Ás@ Áşæbç^Á; æð `æd|^Á[lÁ; [, ā]\*Á;] ^ læeā[} • Â

Þ[ c^kÁÚˇ• @ð, \* Á; æ) ˇæþÁṣæḥç^Á@æ) å|^• ÁN, ઁ c+Á; ¦Á‰ç æê +Á-¦[ { Ás@ Ád æ&d; ¦Á&æàÁ, ã| Áà ¦ā, \* Ác@ Á; æã; à[ [ { Á%o] +ÉA^&[} à æê^ Áā[ [ { Á%jō · chÉA[ || Áå^& & Á%jō · chÉæ) à Á• ¸ ãç^|Áà[ [ { ÁsæchÈÚˇ || 3; \* Á; æ) ˇæþÁ@æ) å|^• Át] ¸æbå Á&æà ¸ã|Á^ cÁ; æð, Áá[ [ { Ásá[ ] } +ÉÁ\*\* & Á\*\* & Á\*\* } åÁ\*, ãç^|Áà[ [ { Ásá[ ] } +ÉÁ\*\* & Á\*\* & Á\*\* & Á\*\* } åÁ\*, ãç^|Áá\*\* ] æbå +È

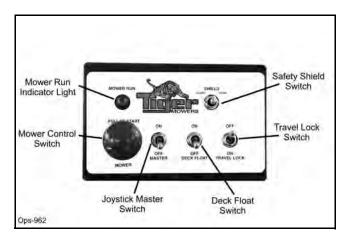


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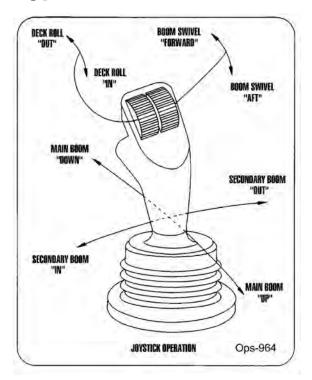


# SAFETY SHIELD OPERATION Failure to close Safety Shield may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death. Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact with the Blades if persons are in the area.

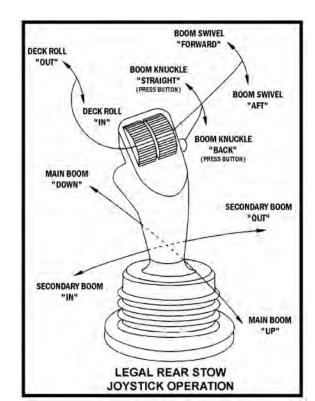
- 2.Before cutting brush, trimming limbs, or other such operations, raise Safety Shield fully to allow the blades to contact the material if area is clear of passersby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area.
- Repair or replace Safety Shield as needed.
   Always transport with Safety Shield closed. Ops-963

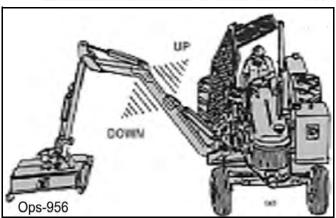
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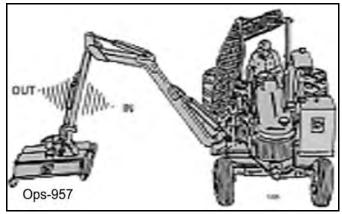


RUŸÙVÔĴSÁØY ÖÐÓÐÔSÁT UXÒÙÁT ŒÐÞÁÓUUT

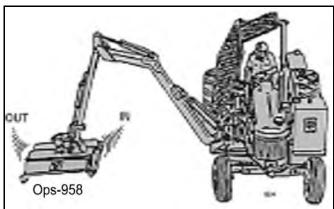




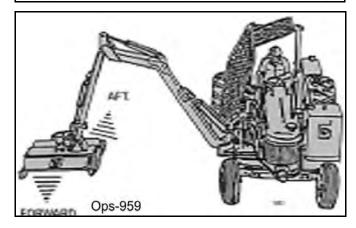
RUŸÙVÔSÁŠÒØVÐÜŐPVÁTUXÒÙÁÙÒÔUÞ֌ܟ ÓUUT



ŠÒØVÁRUŸÙVØĴSÁÜUŠŠÒÜÁT UXÒÙÁÖÒÔSÁÜUŠŠ



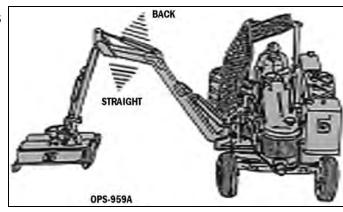
ÜŐPVÁ RUŸÙVÓDSÁÜUŠŠÒÜÁTUXÒÙ Á ÓUUT ÙYOXÒŠ



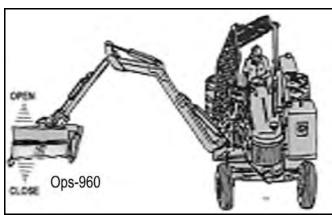
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ÜŐPVÁRUŸÙVÓSÁÜUŠŠÒ ÜÁY POŠÒÁÚÜÒ ÙÙOÞŐ ÓWVUÞÁT UXÒÙÁÓUUT ÁSÞWÔSŠÒÁJÞÁŒŠÒÕŒŠ ÜÒŒĴÁÚVUY ÁÓUUT



ÙPOÒŠÖÁ ÙY QYÔPQ }Á•, ãã&@Áà[¢DÁ UÚÒÜŒVÒÙ ÙŒVÒVŸÁÜPOÒŠÖ



## <u>, '8 F = J = B; 'H < 9 'H F 5 7 H C F '5 B 8 ' = A D @ 9 A 9 B H</u>

Ùæ^Ádæ&q[¦Ádæ)•][¦ơÁ^ˇã^•ÁœÁ]^¦æq[¦Átá][••^••ÁæÁœQ¦[ێ\*@Á];[¸|^å\*^Á;Áœ^Á[åa\Áà^ã;\*Á]]^¦ææ^å
æ)åÁj¦^&æĕæ¶]•Át[Áææ^Á @\$p^Áå¦āçā;\*Á ãœÁæ)Áæææ&@åÁā[]|^{ ^}œĎ}•ˇ¦^Ác@Ádæ&q¦Áææ-Ác@Ásæ]æ&ãcÁt @æ)å|^Ác@Á¸^ã @Á;ÆœÆá[[{Áæ}åÁœÆd;lÁ;]^!ææã;\*Á&[}d[|•Áæ+^Ár^óÁ;¦Áæ\*Aáæ)•][¦dĚÁv[Ár}•ˇ¦^Áæ\*Ac @\$p^Áå¦āçā;\*Ác@Ádæ&q¦Á¸ãc@ÁæÁa[[{ÉÃoçãr,Ác@Áf||[,ā;\*È

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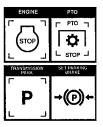


**AWARNING** 

 $\begin{array}{l} \text{CE}_{1} \approx \bullet \land \text{A} \approx \text{B} \cos \theta \land \text{A} \approx \land \hat{c} \land \hat{a} \\ \bullet \land \text{A} \land \text{A} = \text{A} \land \text{A} \land \text{A} \to \text{A}$ 

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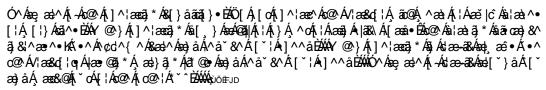


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#### <u>, "&"6 fU\_Y"UbX"8 ]ZZYfYbHJU" @cW "GYHHJb[</u>

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 c°; a³ \* ÉAY @} Ár) \* 老\* ^åÁc@ ^Áåã-^¦^} cãæþÁ[ & Á, ā]

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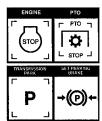
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**A** DANGER



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#### <u>, " '8 f]j ]b[ 'l\ Y'HfUWcf'UbX'6 cca</u>

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OPS-B- 0006





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#### **AWARNING**

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#### **A** DANGER



#### - 'CD9F5H+B: 'H<9'6CCA'I B+H'5B8'5HH57<98'<958

H<9 `CD9F5HCF` AIGH` 7 CAD@9H9 @M`IB89FGH5B8` < CK` HC` CD9F5H9` H<9 `HF5 7 HCF` 5B8 ACK 9F5B8 '5 @@7 CBHFC @G`69: CF9 `5 HH9 A DH=B; `HC`ACK "Á/@/\$\[\] \\ \alpha\f\] \alpha\f\ \alpha\f\] \alpha\f\ \alpha\f\] \alpha\f\ \alpha\f\] \alpha\f\ \

 $\begin{array}{l} V[A^*] \bullet^* |^A A \otimes A^* \wedge A^* \otimes A^* |^A \otimes A^* |^A \otimes A^* |^A \otimes A^* \wedge A^* |^A \otimes A^* |^A$ 

U}|^Á[]^¦æe^Ác@Á([¸^¦Á@æåÁ¦[{Ác@Ádæ&q[¦Á[]^¦æe[¦qÁ+^æé¸ãc@Ác@Á+^æèà^|cÁ+^&`¦^|^Áæe'c^}^åÈÁdU}|^ []^¦æe^ÁæÁs[[{Ásè¸åÁr`ĭā]]^åÁ@æåÁ;}Ásæàà^åÁdæ&q[¦Ás@æóÆnÁ°ïā]]^åÁ¸ãc@ÁsÁ,[|^&æàà[}æe^Áæ^c'Ë;¦[c^&c^å ¦ã @Áaã^Á;ājå[¸Á;¦ÆæÁ;[}Ææàà^åÁdæ&q¦Ár`ĭā]]^åÁ¸ãc@ÁsÁÜUÚÙÁæ}åÁ;]^¦æe[¦Áræ^c'Ár&¦^^}ÈÁ

**AWARNING** 

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#### - '%: cfY][ b'8 YVf]q'< UhUfXq#Cj Yf\ YUX'C Vqlfi Wf|cbq

# **AWARNING**



#### **AWARNING**

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#### **AWARNING**

#### - "&'CdYfUfib[ 'GdYYX'UbX'; fci bX'GdYYX

Õ¦[ˇ] å Á•]^^å Áṭ lÁ; [¸ā]\*Á¸ā|Áå^]^} å Á¹]]} Áœ Á@ ã @Ē&c]^Êæaj å Åå^}• ãc Á; Áç^\*^ œæāj Àṭ Áà^Á&` œĒÁÖ[ÁÞ[c ^¢&^^åÁ ÁT ÚPÁ¸@Ā^Á;]^\ææāj \* ĚŪ]^\ææ^Ác@ Á; [¸^\Áææ^áæ Áˇ||Áææ^åÁÚVUÁ·]^^åÁṭ Á; æāj œæāj Æajæå^Á·]^^åÁṭ \Ææ &|^æ) Á&` œĒŪ^-^\át Ác@ Áslææ4; [Á¸]^\ææēj \* ĚŪ]^\ææēj \* Áæ} å Á\*^æ± æ¼ Ææ Áslææ Áslææ4; [Á¸ā] & ææ Áslææ4; [Á¸ā] & æð æð Áslææ4; [Á¸ā] & æð Aslææ4; [Á¸ā] & æð Aslææ4; [Á¸ā] & æð Aslææ4; [A¸ā] & æð Aslæ4; [A¸ā] & æð

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[]^\ææ[¦Á;æíÁa^Án^´ ¾å^åÁq[Ár¢]^\ä;A¸øýåæýå-°ç^\æþÁr>æÁæ)\*^Á&[{àā;ææā;}•ÁqíÁa^c\¦{ā¸^Ás@Áa^•oÁ\*>oÁ\*>æáÁæ)å
\æð;\*^Á;@ðk@Á;¦[çãå^•Ás@Á;[•oÁa^æÁqí^\-[¦{æ;8^Á;[{Ás@Áqi]|^{^}bæā;}oÁs@Á;[•oÁ-æðæð;)oÁdæðæ(¦Á;]^\ææā;}ÈÁQE
c@Á\*^ç^\ãcÁ;—Á&`æā;\*Á&[}åãæā;}•Ág&\^æ^Ê\$@Á\*![`}åÁn]^^åÁ;@\*`|åÁa^Ás^&\^æ-^åÈOPS-B-0009

#### **AWARNING**

 $T[, AaacAc@Ae]^{^a}Ac@aeA^{^c}[`A&ae]Ae aeA^{^c}A[]^{aeA}aAe] aAe[] d[|Ac@Aclas&c[|Aea]aA([, ^|EN/@8C]|^Aea]AeAe]^{^a}Ae[]^{^a}$ 

#### - " CdYfUhlb[ h Y5 HUW YX Ack Yf < YUXg

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**AWARNING** 

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ã, & @ •Áā, Ååãæ{ ^c'!Á;!Á; \*|cā]|^Áà!æ; & @ •Áœæóææç^Áæ
q æ hÁ&![••Á•^&cā]}Áæ4^æÁ^\* \* ãçæ h^} cÁq Á[}^AÎ}Âā & @
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ãjq Á@ æç^Áa¦æ)&@.•Á;¦Ánč{]•ÉÖæ(æ\*^Áq Áo@ Á}ãó(æ`Á^•`∣dÈ



Y @}Á•āj\*Ás@Á[æd^Áscœāj\*Á@ædÁc¦lÁdā[{āj\*Ád^^•Ásp}åÁr@`à•ĒÁ\^Ós@Ác[,^lÁræ,ÁspqÁso@{È Ö[Á}[ơÁ[,^lÁc@Á([,^lÁ@ædÁd[,}}Ádād^&d^Áā]d[ÁæÁd^^Á[lÁrc~{]ÈÁV@Á([,^lÁa]æd^•Áæd^ å^•āt}^åÁq[ÁscóÁjāc@Áo@Á^}åÉædjåÁ(ãr`•^ÁsædjÁsæč•^Ádæd;æt^Áq[Áo@Áa]æd^ÁædjåÁædÆæædå[`• •ācæaāj}Áq[ÁscóÁj]^læd[lÈ

**▲** CAUTION

Ú[¸^¦āj\*Áx@Áxà[[{Áxå[¸}ÊÁt;|&āj\*Át[¸^¦Áxå^&\Át;}q[Át;|ĭ}åÁtæá æt^Át;[¸^¦Áxå^&\Áxæ)åÁnāne æncæ&Q(^}oÁq[Áx@Áxà[[{Êx%k'^ææāj\*ÁxæÁj[o^}cæaþ|^Áqæeæbå[ĭ•Árācĭææāj}È

V[Ár}• ` ¦^Áæósk|^æð Ás ŒÁr}\* ¾ ^Ár]^^åÁr @ ` |åÁs^Á(æð)cæð)^åÁæósæð] | [¢ã ææ^|`ÁFJ€€Ë3Œ€ÁÜÈÜÈ ÈÁGÁs@ Ádæásæť |
• [[¸•ÁtÁr•Ác@æð ÁFÌ €€ÄÜÈÜÈ ÈÁR @ Ás/¢cÁ[¸^¦Ár^æðEÖUÁr>UVÁ ã ár Ás@Ás@áÁ, ¾ Ásæĕ•^Á; |^{ æč ¦^
&|`c&@Áæð|` |^ÈHN Y`Yb[]bY`g\ci`X`bch`VY`cdYfUHYX`Uh`Ubmih]a Y`Uh`acfY`h\Ub`&(\$\$`F'D"A'"cb`h\Y`hfUWhcf
HUW\caYhYf"

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A CAUTION

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A CAUTION

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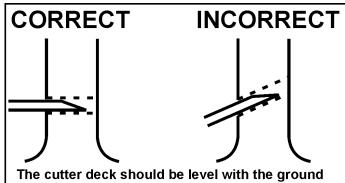
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The cutter deck should be level with the ground to reduce the work required by the cutter and tractor to minimize equipment wear and damage.

Ope-1480

(OPS-R-220)

# <u>- ''\* ') \$Î '6 cca ': `U]`</u>



**▲**WARNING

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**AWARNING** 

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**AWARNING** 

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**AWARNING** 

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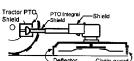
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**AWARNING** 

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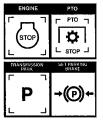
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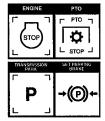
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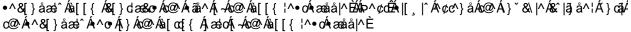
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**AWARNING** 

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## **MAINTENANCE**

**AWARNING** 

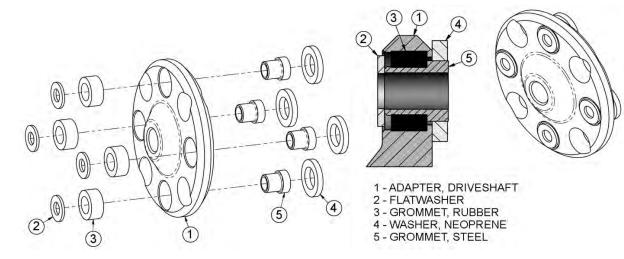
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# CRANKSHAFT ADAPTER ASSEMBLY

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# **MAINTENANCE**

#### **General Instructions**

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## **Maintenance Precautions**

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**AWARNING** 

#### **Break in Period**

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à^Á^]|æ&&åÁxæe°¦Áx@Áāj•oÁi€Á@çĭ|•Áqi-Áx^¦çã&\ÈÁv@;¦∞æe°¦Áx@Áaje¢¦Ár@çĭ|åÁà∧Á∧]|æ&&åÁrç∧¦^Á퀀Á@;ï|•É4qi; ^^æ¦îÉA @&&@Áxc∧¦Ásqi{^•Áāj•oÈ

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

A DANGER

Þ^ç^¦Á¸[¦\Áˇ}å^¦Ác@ÁQ]|^{ ^}dÄc@Á\@ A, [¦\ÊA[¦Áæ)^Áæ~&å &[{][}^}oÁ`}^oÁ`}|^••ÁœÁQ]|^{ ^}oÁæÁ^&`¦^|^Á\*]][¦œåÁ;!Áæ|[&\^åÁ] d Á] |^••ÁœÁQ]|^{ ^}oÁæÁ} a墸'¦¢}oÁæ|ā\*Á¸@&@Á&[ˇ|åÁææ\*•^Á^!ã;\*•ā\*)ŏ¦^Á;!Á¢ç^}Áæ\*æ®ÆÁçòö⊞□□



Ó[[{ Tæaj c^}æ) &^ÁÛ^&caj } Á ËG

**AWARNING** 

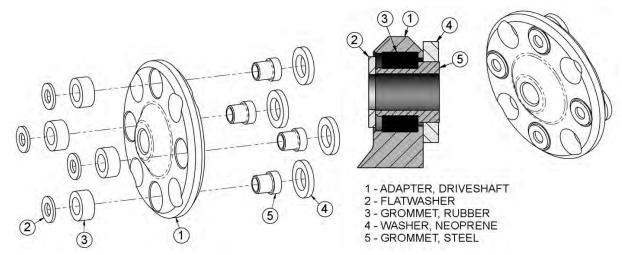
 $\ddot{O}[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle] + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle[\dot{A}\rangle]) + (\dot{A})(\dot{A}\rangle[\dot{A}\rangle$ 

**AWARNING** 



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

\(\hat{\mathcal{\pi}}\) \(\hat{\pi}\) \(\hat



Tængi e^}ængi &^Áû/^&angi }Án ËH

Ó[[{

#### **Regular Maintenance**

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

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

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

Q/ÒT Á	ÙÒÜΧΦ̈́Ò	ÔUTT ÒÞVÙ
Ölãg^ÁÚ@eedŸ[\^ÊÄWËR[ā]c BÁÜc`àÁÚ@eec	Õ¦^æ^	Õ¦^æ•^Áæ•Á§;•d`&c^åÁ§ å^œæ¶^åÁ;æ£g;c^}æ)&^Ár^&c4[}
Ú { ] ÁÖ¦ãç^ÂÛ@æÁÔ[ ˇ ]  ^¦	Ô@&\Áæ}åÆŠ`à^	Q,• ˇ ¦^Áå¦ãç^• @eeóÁ} åÁj æê
Ô¦æ}\•@æóÁŒáæ}o^¦Á	Ô@&\Á`àà^\Á\[{{ ^•	Ü^] æ&^Át¦[{{^œÁsÁ åæ{æ*^åÁ;¦Á;㕳}*
Úặţ đÚ[ ặ ơ	Š`à¦ã&æe^	O), b^8o^(\;\^æ•^Á;} cāļÁāc æ}j]^æ••Ásecó^(}å
P^妿ĕ a&AØaca}*∙ Á	Ô@&\Á{¦Á\^æ\•	Va* @^}Á, @^}Á,^^å^åĎÁÖ[Á¤[cÁ\•^Á@a)å• q'Á&@&\Á(¦Á^æ)•ÉA^^Á(æā)dĚÁ,¦^&æčqã}}•
S} ãç^• Á Á	Ô@&Á	Q•]^&oÁ[¦Á;ã••ã;*Á;¦Áåæ(æ*^åÁ)}ãç^•Ê &@æ)*^ÁÁæ•Á;^^å^åÈ
Ù] ājå ^Á; [ˇcāj*Áà[ o• •] ājå ^Á; Áå^&\D	Ô@&\	V[¦˘ˇ^Áq[ÁnHFÍÁqÈÁ)à•ÈÁ,ĭà¦ã&ææ^å V[¦˘ˇ^Áq[ÁnHÍÏÁqÈÁ)à•ÈÁs¦^
S}ã^Á;[ˇ}α¾*Áà[ o• Ç}ã^Á;Áàã*\Á;¦Áà æå^Áàæ;D	Ô@&\	Ú¦^Ë;`à¦ã&æe^Ás@v^æå∙Á,ão@Áæ);oã—ē^ã.^ q[¦~``^Áq[Ánl⊖∈Á⊲ÈÁjà•È
Öã \ ĐÓ   æå ^ ÁÓ æð Á; [ ˇ } cō, * Áà[   o Çãã \ Đà   æå ^ Áà æð Á; Ár] ā, å   ^ D	Ô@&\	V[¦ˇˇ^Áq[ÁrÌ €ÁqÈÁà•ÈÁ;à¦ã&ææ^å V[¦ˇˇ^Áq[ÁG€IÁqÈÁà•ÈÁå¦^
Ó^ œ	Ô@&\ <b>£</b> 007£abŏ•c	Ô@ &\ Á5Áa¦[\^} ÉAaã @^} Áæ Á^~~ã^å
Tæ\$jÁx0læ{^Áæ}jåÁ Ö^&\	Ô@&\Á	Ü^q[¦~~^Áa[ o•Áq Áq[;~~^ •]^&ãã&æaā[}•Áa,Áo@áÁ^&aā[}
P^妿ĕ  <b>&amp;%ÁØ</b>  *ãåÁŠ^ç^	Ô@&\	OzāåÁsāÁ^~~ ā^åÁj.^¦Áļ~ããÁ^&[{{^}}åææā[}•
Ü^ækÁØ æ#ÁÖ &Ç^ÇAÁ#]] &Bææk ^D Ó^ækÁØ æ)*^Áæ)&ÁÛ@æcÁÔ[`] ^¦	Š`à¦ã8æe∿	Õ¦^æ•^Áæ•Á§j•d`&c^寧 å^œæ¶^åÁ(æ§jc^}æ)&^Á-^&c4[}
Ô°œ^¦ÁÙ@æoÁsa) åÁ	Š`à¦a&æ^	Õ¦^æ•^Áæ•Á§•d`&c^åÁ§
Ó[[{	Tæāje^}æj&^ÁÛ^&dā[}	ÁË

Õ¦[ ˇ } åÁ̈Ü[   ^¦		å^cæail/^å/(i, æail/e^}æ)&^A/-&@ail}
	WEEKLY OR EVER	RY 40 HOURS
(%) TÓY		₩₩₩₩Û UTTÒÞVÙ
Ü[œdî^ <b>ÁÙ</b> ] ājå ^	Š`à¦ã&æe^	Òç^¦^Án,€ÁQp~¦•Án,¦Án,^^\ ^
	WEEKLY OR EVER	RY 50 HOURS
ΟΥΌΤ	ÙÒÜΧΦÔ	ÔUT T ÒÞVÙ
Q Á⁄æ)∖ÁP^åÈÁØ ĭãå Øā¢^¦ 10 micron filterD	Ô@;*^	Ô@a}*^Ásee?¦Áal•ơÃl€Á @~`¦•Á;} ^ÊÁs@}Án°ç^¦^ Í€€Á@~; •Á;¦Á^æb ^
QËŠā,^ÁPā*@ÁÚ¦^••ˇ¦^ Øājd^¦ Ç10 micron filterD	Ô@)*^	Ô@a)*^Áane^¦Áai•oÁi€ @[`¦•Ái} ^Éáo@}Ánc^¦^Á Í€€Á@[`¦•Ái¦Á^æ ^
	MONTHLY OR EVER	RY 150 HOURS
ITEM	SERVICE	COMMENTS
P^妿ĕ a&ÁØ `ãåÁ&^ç^ Á	Ô@&\	ŒååÁæ∙Á,^^å^å
P^åBŽVæ}\ÁÓ¦^æ®@\	Ô ^æ} ĐĐÔ@^&\ĐÜ^]  æ&^	Ô ^æ)-Á;¦Á^] æ&^ ^ ^{ ^} œ\æ-Á^~~ã^å
Ü^æÁ/ã^Á/^]^ IÌ⊕Đ€ÜHÌ FÌÈËH FÌÈËHÌ	Tæ¢ÁJÈJÈÈ XXXXGJ XXXXXGÎ	
	YEARLY OR EVER	Y 500 HOURS
ITEM	SERVICE	COMMENTS
Ù] āj å ^ÁÕ;^æ-^ P^åĚÁæ)\ÁØ *ãå Q\Áæ)\ÁP^åĚÁØ *ãåÁØājc^; Q!O micron filterD	Ô@#)*^ Ô@#)*^ Ô@#)*^	
QËŠ∦^ÁRÚÁØ∯¢^¦ Ç10 micron filterD	Ô@)*^ ##\	Ô@a)*^Á,@^}Á5,å&&æe^å à^Á^∙d&&a≨,}Á5,å&&æe[¦È
P^å ÈÁ <b>/æ)</b> ∖ÁÓ¦^æc@\¦	Ô@a}*^	
Ó[[{	Tæ\$j⊄^}æ}&^ÁÛ^&d	ą́}ÁÉ

	TROUBLESI	HOOTING
ÙŸT ÚVUT Ù	ÔŒNÙÒ	ÜÒT ÒÖŸ
Vibration	FÈŠ[[•^Áa[ o•	FÈÁMÔ@&\Ásq Ás[ orÁsq)åÁsã@c^}Ás[ ÁMMÁ^&[{{^}å^åÁs[ ``^Ás]^∨È
	OHÁÔ°cc^¦Áa⊕•^{à î ÁMÁ(}àæqbæ)&^å	CædŽÔ @ & À{¦ ¦Ása e(æ † ^ å Ás æ å ^ • ÉÉsã a & Á***** Ás co^¦ • @e dŽÜ^]  æ \$ ^ Ás Á, ^ ^ å ^ å È Cà ÈÔ @ & Á;¦Á, ã ^ ÉÁ;] ^ ÉÁ o& È Á**** (cà) *  ^ å Ás, Ás@ Á& co^¦Áse• • ^{ à ^
Mower will not lift	FÉÁP^å ÉÁØ `ãã ÁŠ[¸	FBÁNÁÔ@ &\Ása) åÁ^~ā  Á@ åÁ *ãn
	ŒÀŠ^æà•ÁS,ÁAŠ,^ÜUW HÀŽØæĕ c°Á^ ā³-Áşæ¢ç^	CHÉÁÁ VÍT @^} Á;¦Á^]  æ&^Áāīcā;*•Áæ;åÁ@;•^• HÈÉÁÁÔ@&\Á;¦^••`¦^Ás;Áā;^ÈÉŠā;^Á ÁÁÁÁÁ;^-•`¦^Ás;Á&[}d[ Áçæ‡ç^Á;@[` åÁà^ ÁÁÁÁÁA:«•ŏÁGÍ€€ÁÚÈÙÈCÈ
	ÍÈÁØæĕ cîÁ&û;lājå^¦	ÍÈÁWÁQ,•]^&oÊÁ^]æãiÁ,¦Á^] æ&^Á&î ā,å^¦
Mower will not start or run	FÈÓ ([, } Á*•^  GÈÓ (a) (\$; a) (\$, • (\$) [• ^ a    HÈŚ [, 4] 4 (\$ (\$)    LÈŚ [, 4] 5 (\$	FÈMÓ @ &\ Á* • ^ Ás ^ ç ^ ^ } Á; [
Ó[[{	Tæ5je^}æ <b>j</b> &^ <b>ÁÙ</b> ^6	Á∰∰,^^å ^Á,[•^Áçãr^Át¦ājÁg[Ájˇ  Án][[ Á-¦[{ à [&\DÉÁÔ@&&Aà [&\ÁapåÁ][[  Á∰∰, 'Ág[}cæ{ājæ}o•Áæ)åÁ&¦ææ&@•È &@ā}ÁÍÉ

/////////////////////////////////////	مامد	ΛίΛΛ	1~~0 \ \\( \hat{\text{K}} \)	01~~0~	åÈ
<i>‱</i>	<i>} 1</i> 3 25 0	. √4 · √4. ,]	Sex.\endack	( or seese	a⊏

ÙŸT ÚVUT Ù	ÓÚVÆOÔ	ÜÒT ÒÖŸ
Motor runs but	FĚÓ^ œ	FEXMQ•]^&o\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
will not cutÉ	ŒŽV^}•ã[}^¦	Á‱ (o Ás) å Á^) æaláse Á, ^^å^åÈ CHĂ∭ (Cā)ŏ•oÁs^}•ā[}^¦Á, čó√)æe;æ•@⊹ Á‱, æ•@⊹ÁsiÁ, •@∮āo@A[]Á, -Á*ãå^È
Mower turns slowly or not at allÈ	FĚÁÔ[}cæ(ā)æ)o•Á Á∰A.•da8cā)*Án][[  Á∰{[ç^{ ^}o^4]á Á∰çæ4ç^Áa[å°ÉÁ	FEXXXU^{ [ç^Á;æ+*^Á; ơÁ;}Án áã^Á; -Á;æ+*^ XXXXXX; &; &; EXXY { [ç^Á;] + 3 * É\$æ+ åÁ•^ XXXXXX; ^^å ^Á;[•^Á;ã*^Á; 4] Æ; Á;  Á;   Á] [[  XXXXXX; [{ Á\$;[8 \ ÈCO@ & Á\$;[8 \ Á\$+ åÁ] [[  XXXXXX;   Á\$[] & ECO @ & Á\$+ & & æ8.@•È XXXXXX;   XXXX;   XXXX;   XXXX;   XXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXX;   XXXXXXX;   XXXXXXX;   XXXXXXX;   XXXXXXX;   XXXXXXX;   XXXXXXXX
	CHÁÙ '&ca[}Áa]^• Á∰(à•d`&c^åÁ HÈÁŠ[,Á[āÁ(^ç^	#####################################
Pump will not work	FEÄÖ¢&^••ãç^Á¸^æ ¼¼¼}Á§g°¦}ædÅæd•	FÉÄÄÄÖãiæ •^{à ^Ása}åÁ^]æālÈ
Motor will not work	FEÄÖ¢&^••ãç^Á¸^æ∜ ÁÁÁÁ¸c^¦}ædÁjædo•	FEÄWWÖãræe•^{à ^Ása)åÁn^]æaiÈ

Tæng c^}æng &^AÛ/^&cna[} Ál E

				Т	orque	for St	andard	Faste	ners				
Nominal Dia.	threads	C	>	Grade 2	0	<b>&gt;</b>	Grade 5			Grade 8	0		Grade 9
Dia.	per	Tig	htening Tor	que	Tig	htening To	rque	Tig	htening Tor	que	Tig	htening Tor	que
	inch	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain
(in.)		K = 0.15	K=0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K=0.17	K = 0.20	K=0.15	K=0.17	K = 0.20
					Unit	fied Coa	rse Threa	ad Series					
1/4	20	49 in-lbs	59 in-lbs	66 in-lbs	76 in-lbs	86 in-lbs	101 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs
5/16	18	101	122	135	157	178	209	221	251	295	259	294	346
3/8	16	15 ft-lbs	16 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	128	150	159	.180	212	196	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	966	1095	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1363	1545	1817	1597	1810	2130
1 1/2	6	652	783	869	1462	1657	1950	2371	2688	3162	2779	3150	3706
						Fine T	hread Se	ries					
1/4	28	56 lin-lbs	68 lin-lbs	75 in-lbs	87 in-lbs	99 lin-lbs	116 in-lbs	123 lin-lbs	139 in-lbs	164 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs	37 ft-lbs	42 ft-lbs	49 ft-lbs	43 ft-lbs	49 ft-lbs	58 ft-lbs
7/16	20	27	32	36	41	47	55	58	66	78	68	78	91
1/2	20	41	49	55	64	72	95	90	102	120	105	120	141
9/16	18	59	71	78	91	103	121	128	146	171	151	171	201
5/8	18	82	99	110	127	144	170	180	204	240	211	239	281
3/4	16	144	173	192	223	253	297	315	357	420	369	418	492
7/8	14	138	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

Torque values for 1/4 and 5/16-in series are in inch-pounds. All other torque values are in foot-pounds. K = 0.15 for "lubricated" conditions. Torque values calculated from formula T=KDF, where K = 0.20 for olding and dry conditions.

D = Nominal Diameter F = Clamp Load.

												s 12.9		
-		<	Class 4,6	<b>)</b>	10	Class 8.8 8.8	<b>&gt;</b>	١,	Class 10.9	<b>&gt;</b>	F	12.9		
lominal	Pitch	Tigl	ntening To	rque	Tig	htening Tor	que	Tig	Tightening Torque			Tightening Torque		
20		Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain		Dry Plated	Dry plain		Dry plair		
Dia.		K = 0.15	K = 0.17	K = 0.20	K=0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.20		
(mm)		(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)		
3	0.5	0.28	0.32	0.38	0.73	0.82	0.97	1.0	1.2	1.4	1.2	1.6		
3.5	0.6	0.44	0.50	0.59	1.1	1.3	1.5	1.6	1.9	2.2	1.9	2.5		
4	0.7	0.66	0.74	0.87	1.7	1.9	2.3	2.4	2.7	3.2	2.8	3.8		
5	0.8	1.3	1.5	1.8	3.4	3.9	4.5	4.9	5.5	6.5	5.7	7.6		
6	-1	2.3	2.6	3.0	5.8	6.6	7.7	8.3	9.4	-11	9.7	13		
6	1,25	2.1	2.3	2,7	5,3	6.0	7.0	7.6	8.6	10	8.8	12		
7	1	3.8	4.3	5,0	9.7	11	13	14	16	19	16	22		
8	1	5.9	6.8	7.8	15	17	20	22	24	29	25	34		
8	1.25	5.5	6.2	7.3	14	16	19	20	23	27	24	31		
10	1.25	.11	13	15	29	33	39	42	48	56	49	66		
10	1.5		12	14	28	32	37	40	45	53	47	62		
12	1.25	21	23	28	53	60	71	76	86	101	89	119		
12	1.5	20	22	26	51	58	68	73	82	97	85	113		
12	1.75	19	21	25	49	55	65	70	79	93	81	108		
14	1.25	26	29	34	66	75	89	95	108	127	111	148		
14	1.5	28	32	37	72	82	96	103	117	138	121	161		
14	2	30	34	40	78	88	184	111	126	148	130	173		
16	1.5	- 50	57	67	129	146	171	184	208	245	215	287		
16	2	47	53	62	121	137	161	173	196	230	202	269		
18	1.5	73	82	97	187	212	249	268	303	357	313	417		
18	2.5	85	73	86	167	189	222	239	270	318	279	372		
20	1.5	101	115	135	270	306	360	374	424	498	437	583		
20	2.5	91	104	122	236	267	314	337	382	449	394	525		
lamp los	d cale	culated as	75% of th	ne proof lo	ad for spe	cified bolts.	K = 0.15 f	or "lubric	ated" cond	itions	D = Nomin	nal Diamet		
All torque	value	es are list	ed in foot-	pounds			K = 0.17 f	or zinc pl	sted, dry o	conditions	F = Clamp	Load		

Tængi e^}ængi &^ÁÛ^&engi }ÁiÊ

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Description	Application	General Specification	Recomended Mobil Lubricant
Vlæ&k[lÁP^ålæĭ &&•Á	Ü^∙^¦ç[ ã	RÖËG€Ô TØÁTFFHÍÊTFFIF ØÞPTGÔFHIÖÁÇØÞPG€FD	T[àā∰ ããÁiGi
T [ ၞ^¦ÁP^妿ĕ a&•Á‱∭ Ô[ åÁ/^{ ] ^¦æcč¦^•Á∈»Áa ÙæddÖM]		OÙUÁIÎÁOÇGËY^æ\EŠ[¸ÁA^{]	T[àðþÓVÒÆÍT
Þ[¦{æ∳Á^{]^¦æč¦^•Æ F€»ÁØÁÙæàdËNJÆ‱		RÖËG€Ô TØÁTFFHÍÊTFFIF ØÞPÁTGÔFHIÖÇØÞPG€FD	T[àãa⊣ĭãaÁaGIÁ
Þ[¦{æ‡Á/^{]^¦æc°¦^•Á FÍ»ÁØÁÙædóÁV]		OÙUÁiÎÁOÇidäÖ∀^æ	T [ àðļÁÖVÒÁGÍ
Pař@ÁU]^¦æana]*Áv^{]È Cna[ç^Ád€»ÁØ		OÙUÁF€€ÁOE, cáÉY^æl	T[à <b>ā/Ö</b> VÒÆÌT
	₩Õ¦^æ•^	ÚŒUÂÙ^}c@cæAÔ¢d^{ ^ Ú¦^••`¦^ÁÕ^æbÁŠ`à^	T[àāļÁÙPÔÁÍÍYËÜ€ T[àãļÁFÁÙ^}c@\cã&ÁÕ^æ\
Ô` cc^{ÂÛ @eeÆBÁÕ;[`} åÆ Ü[  ^{ÂÛ @eeŒZA æ#D	∰Õ¦^æ•^ Õ`}	Šão©ã{ ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOŠÕ)UÁHG€	T[àẩp*¦^æn•^ÁÔTĒÙ
Ö¦ãç^ÁÙ@ecóÔ[*] ^¦ ÇZ æã[Áse)åÁÜ[cæb^D	Õ¦^æ^ Õ`}	Šão©ã{ ËÔ[{] ^¢ Ò¢d^{^ÁÚ¦^••`¦^ ÞŠÕOŒÜÜ)UÁHO€	T[àã[*¦^æ•^ÁÔTËÙ
Öláç^ÁÜ @eoÁŸ[\^Ê WEĞiğioÁBÁÜ càÁÜ @ec	Õ¦^æ^ Õ`}	Šão©ã{ ËÔ[{] ^¢ Ò¢d^{^ÁÚ¦^••`¦^ ÞŠÕOŒÜÜ)UÁHO€	T[àã[*¦^æ•^ÁÔTËÙ
Ó[[{ ÁÛ, ãç^  Ó[[{ ÁÔ^ ā}å^\¦ÁÚāç[o• ÇÜ[cæd^ÁSÁØ ænáÁÓ[[{ D	Õ¦^æ^Á Õ`}	Šão©ã{ ÁÔ[{] ^¢ Ò¢d^{^Á;\^••`¦^ ÞŠÕOŒÜÜUÁHG€Á	T[àã[*¦^æ•^ÁÔTËÙ
Ö^&\ÁÓ[[{ÁÚāç[cÁB Ö^&\ÁÚq[]ÁÓBáb′∙o{^}c Ü[cæ}^ÆbÁd æáa]D	Õ¦^æ^ Õ`}	Šão©ã{ ÁÔ[{] ^¢ Ò¢d^{^ÁÚ¦^••`¦^ ÞŠÕOËÒÙUÁHG€Á	T[àẩ‡¦^æ•^ÁÔTËÙ
Ö^&\ ÁÙ] āj å ^ÇÜ[ æ#^ D	Õ¦^æ^ Õ`}	V2f^¦ÁÛ]ājå ^ÁŠ*à¦38æ)c ]æloÁ,*{à^¦Á≘ÎÍ €€€€	T[àããã©ÁÙPÔÁGG€

Tænājc^}ænj&^ÁnÙ^&cnā[}ÁniËJ

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#### POLYCARBONATE CARE AND MAINTENANCE

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

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

 $H\dot{E} \qquad V[\dot{A}; ^{\circ}] \circ \dot{A} \approx e^{-\frac{1}{2}} \dot{A} = e^{-\frac{1}{2}}$ 

IÈ Cōç[aã Ás@ Á • ^ Á; -Ásaà | æ•ãç ^ Ásu|^æ) ^ ; • ÉÁs ˇ ^^\* ^^ • Ása) å Đ; | Á; c@ | Ásu|^æ) ā; \* Ás[] | ^ { ^ } o•Ás@æcÁ; æð Á; æð Á; lÁ \* [ ˇ \* ^Ás@ Ás[ææā] \* È

Ô SÒ CEÐ OÐ Ó Á CEÐ Ò Þ VÙÁY ÞOÐ PÁ POSK Ò Á Ó Ò Ò ÞÁ ØU WÞ Ö Á VU Á Ó Ò Á ÔU TÚCE/OÐ SÒ Á WÞÖ Ò Ü Á SŒÓU ÜCE/U Ü Ÿ ÔU ÞÖ ON OD ÞÙK

OE `^[ `• ÂÛ[ | ` cā] }• Á ÂÛ[ æ]• Áæ) å ÁÖ^ c^!\* ^} o•

Y  $\hat{a}$   $\hat{a}^{\phi}\phi$   $\hat{g}$   $\hat{g}$ 

U¦\*æ}æAÛ[|ç^}œ

Þ^|^&[ËÚ|æ\$^¦ V~¦&[Ái€]G

O#48 @ |•

T^c@e)[| Q[];[]^|

OHÁ^•ãa ahá :\* æ 38Á [ |ç^} • Á @ ` |å Ás^Á^{ [ ç^å Á ãc@Áæ A^8[ } åæ Âð Að • ^ È

#### **GRAFFITI REMOVAL**

Ó c | Ás\|[•[|ç^Áçq | Á^{ [çæþÁ, -Á, ææ], œ ÉÁ, æd\ā] \* Á, ^} Ás | \• ÉÁq] • œ & ÉÁ œ ÈÉ @ Á • ^ Á, -Á, æ• \ā] \* Ázæ] ^ Éáæå @ • æç^Ázæ] ^ [ | Áp] cÁ^{ [çæþÁ; [|•Á, [|·Á, ^||Á; |Áaæ], \* Á, --Á, |å Á, ^æœ @ | ^ å Á, ææ] œ È

V[Á^{ [ç^Áæà^|•ÉÁ cæX\^¦•ÉÁ cæX\^|•ÉÁ cæX\^|•ÉÁ cæX\^|•Á •^Á, -Á^|[•^}^Á; ÁXT BÚÁ æð; @c@æÁā Á\*^}^|æð|^Áv-^&cæç^ÉÁY @}Ás@Á[|ç^}c \_ ālÁ[cÁ^}^dæv^Á cæX\^|Á ææX\áæðEæð]]|^Á@æóQæáāÁ&l^^|DÁg Ár[æV}Ás@Áæå@•ãç^Áæð åÁ;|[{ [cÁ^{ [cæbÈ

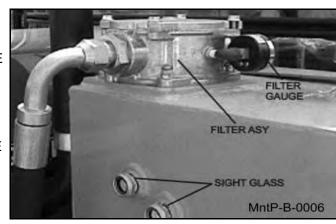
QTÚUÜVOE>MÁQÁnÁ,溦ãndÁs•Á[ˇ}åÁqíÁs^Ás,&[{]ænān|^Ás,ÁæÁ•@¦dĒº¦{Áơ•đÃnÁ,ā|Á·\*æ|^Ás^Á[ˇ}åÁqíÁs^ 引 &[{]ænān|^Ás,Áo@Áæ\åeĚV@Ás[}ç^¦•^ÊŒ,^oç^¦ÊÃnÁ,[oÁnd,æ••Átˇ^ÊÉØæç[¦ænà|^Áj^¦-[¦{æ)&^ÆnÁ,[Áˇææè,ơ^ o@neÁnæScˇæÁY}åË•^Ás[}åãn]>•Áæçç^Ás^^}Ás´]|ãSææ^åÊÁV@¦^-[¦^ÊÁs@•^Á^•`|o•Á•@ˇ|åÁs^Á\*•^åÁæe ÁæÁˇãnÁ,}|`æ)åÁnÁs\*6\*•Ås[{{^^}åÅs@ænÁs@mÁ\*•^¦Ás\*•Ås\*6\*\*Å\$]|å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

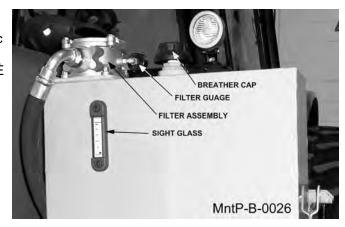
[{ Tænājc^}æn}&^ÁÛ^&cnāj}ÁnÜF€

) ] [Ò

# RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

QÁ^[\*|Á^•^!ç ā|!Á @æ Á; [Áā @c Á\*|æ•^• kÁ Á/@!^• !^• !çā|!Á• @; |åÁà^Áā|^åÁq Ác@ Áq] Á[ ^Ác@ Á|[ ^!• a @A\*|æ•^i[ } Ác@ Á• aā^Á; ~Ác@ Áa) \ ÈÖ[ Á; [ ơḥ ç^!-ā|È V@ Á^•^!ç[ ā Áœ Ása^^] Á; ç^!-ā|^åÁ, @} Á; ā/ās Áṣā ā|^ā Ás@ Á]] ^!Áā @Á æ• ÈŒÆæ) \ Áœ Á[ [Á; \*&@ḥ āĒÆœ ^¢&^• Á[ æ Ása^ Á^¢] ^||^åÁc@[ \*\* @Ác@ Á] !^••\* !ã ^å à!^æ@!È





#### **DETAILED MAINTENANCE**

ÜÒÚŠŒÔOÞÕÁOÞËZŒÞSÁPŸÖÜŒKŠOÔÁZOŠVÒÜK

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

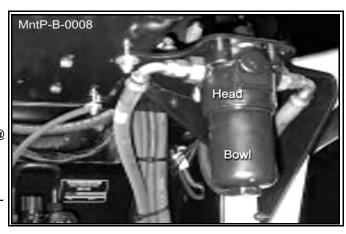


Tænāje^}ænje^^Áû/^&cnāj}ÁniЁF

) ] [Ò

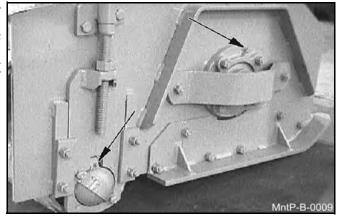
#### **DETAILED MAINTENANCE**

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:



•^aqā;\*Áqæ•Ác@Áà[¸|Ár@; |åÁr]ā;Á;^^|ÈÁvæàā;\*Ásæ;^Á;[cÁt[Áå;[]Ác@Áà[¸|ÊÁā;ār@Ár^{[çā;\*Ác@Áà[¸|Á+[{Ác@ @æå:ÈÁWARNING: bowl will be full of oil!Á

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

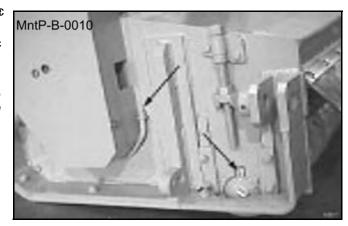


Tænāje^}æn}&^ÁÛ^&enāj}ÁnÜFG

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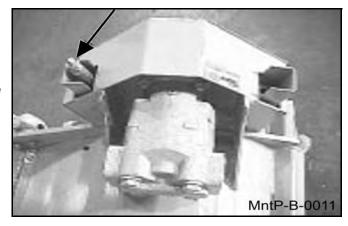
#### **GREASING GROUND ROLLER SHAFT-- FLAIL**

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

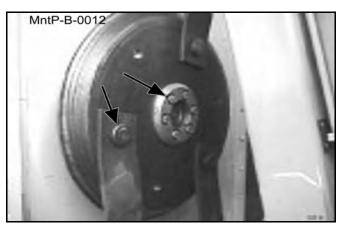


#### ADJUSTING/CHECKING BELT TENSION

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



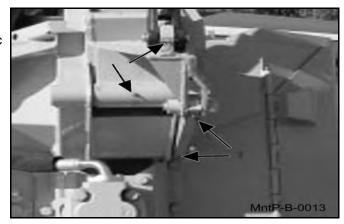
#### **TIGHTENING KNIFE BOLTS AND DISK BOLTS:**



Ó[[{ Tænag e^}æng &^AÛ^&ang } Án ЁH

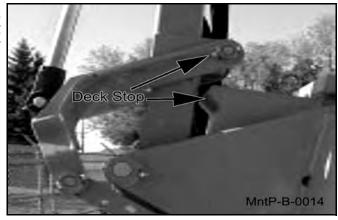
#### **GREASING POINTS ON BOOM AND PIVOT**

Š[&æe^Át|^æ•^Á^|\•Á|}Áa^&\Ájāç[ơ••^{ à|îÊt,}Áo@ å^&\Á^}åÁ[-Á•^&[}åæb^Áa[[{ ÊÁææÁ(æājÐ-^&[}åæb^ à[[{ ÁbpājdÊæjåÅææÁ,ãç^|Á^}åÁp-Á(æājÁa[[{ ÈÁOpb^&c Šão@ã { ËÔ[{]|^¢Á Ò¢d^{ ^Á Ú|^••`!^Át|^æ•^ &[}+[{āj\*ÁqÍApŠÕOSËŪ)UÁHG€Á•]^&ãæ3ææāj}•Á`}dāj \*!^æ•^Áa^\*ā•ÁqÍÁ;[d`å^Á;[{ Á^}å•È



#### **DECK STOP ADJUSTMENT**

U} Áà[[{ Á|æálÉA[[•^} Á[&\ā,\*Á]\*ČÉAV\*;} Áæálŏ•d(^}c à[|cÁa]ÉÆ; åÁ\*} ÁÁ\*&\Á&\*[ā]å^;Á]\*cÁa[Á\*||Á\*¢¢^}•ã[}Èæ; åÁ\*} ÁÁ\*&\Á&\*[ā]å^;Á]\*cÁa[\*&@•Áœ•Áa[[{ Êæ; åÁæã @¢^} Á[ &\Á; čÁ\*]oČANOTE: Bolt should not hit boom before cylinder reaches full travel.



#### **GREASING SPINDLE**

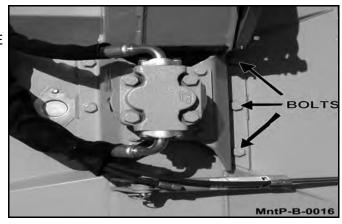
Š[&æe^Á\*¦^æ•^Á-āncāj\*Áį} Áāj•āā^Á[-Áå^&\ÁQ` •āj\*È Qub'&oÁ Vā^¦Á Ù]ājå|^Á Š`à¦ā&æ)dÉÅ]æbóÁ} { à^¦ €ÎÍI€€€€Á3jq[Á]ājå|^ÁQĮ`•āj\*ÈÁOāļÁ¸ão@Á|`à¦ā&æ)c `}dāÁ|`à¦ā&æ)oÁ¸^^]•Á[`oÁ[-Áq]]āå|^Á•^æÈ Š`à¦ā&æe^Án]ājå|^Á,^^\|^Á;¦Ánç^¦^Á,€ÁQ`¦•Á;-Á•^È



Ó[[{ Tæiji c^}æj &^ÁÛ^&caj} Á ËTI

#### **TIGHTENING SPINDLE BOLTS**

V@Á;]ājā|^Á;[ˇ]cāj\*Áa;[orÁ;@ˇ]åÁa^Á&@&\^åÁæ)å
!^dː ˇ ^åÁaæan Á;!Árç^!^ Á@ˇ!•Á; Á^!çæX^ÈM;!ˇ ^
c@ÁÇÎDÁa[|orÁ;@;}Áa^|[¸ÁqÁ-ÍÏÁa!^Á;!ÁHFÍÁdEA)à•È
|ˇà!æ&æe^åÈ



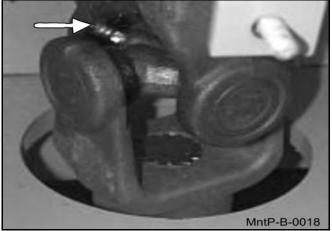
#### **GREASING PUMP DRIVE SHAFT COUPLER**



Tænāje^}æn}&^Aû\^&cani}AiEFÍ

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

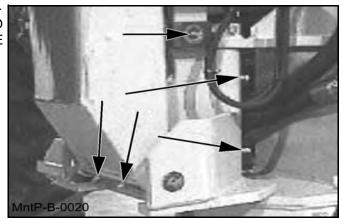
 $\begin{array}{l} Y @@A ^{*} & \mathring{a} \wedge \mathring{A} \bullet \mathring{a} \end{array} ] \wedge \mathring{a} & \mathring{A} & \mathring{a} & \mathring{b} \otimes \mathring{c} \wedge \mathring{a} & \mathring{a}$ 





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

$$\begin{split} &\check{S}[8aa^{*}\land c@\acute{A}: ^{!} \cdot \bullet \acute{A}[\}\acute{A}c@\acute{A}\{ aaa{}_{!}\acute{A} \cdot \tilde{a}_{!} \cdot \bullet \acute{A}[\tilde{a}_{!}] | 38aaa^{!}\land D\tilde{E}\acute{A}( aaa{}_{!}\acute{A})[[\{\acute{A}]\tilde{a}_{!}[c\acute{A}a[\bullet \cdot \bullet \acute{A}[\tilde{a}_{!}\acute{A}a]] | 38aaa^{!}\land D] | 38aaa^{!}\land D] | 38aaa^{!}\land D] | 38aaa^{!}\land D[\{\acute{A}\}\acute{A}a[\bullet \cdot \acute{A}[\bullet \cdot \bullet \cdot \bullet])] | 38aaa^{!}\land D[\{\acute{A}\}\acute{A}a[\bullet \cdot \bullet \cdot \bullet]) | 38aaa^{!}، Aa^{!}\grave{E} | 3a^{*}, Aa^{*}, A$$



Tænāje^}æaj&^Áû∪^&enā[}ÁnÜ=Î

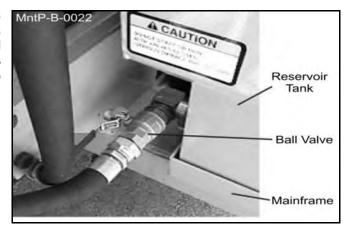
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### **GREASING BOOM CYLINDER(S) PIVOT POINTS**

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



#### **BALL VALVES**



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#### **Blades**

Ô@&\Ár@ÁÓ|æå^•Á[¦Á&¦æ&\•Áæ)åÁ¸^ækÁæ)åÁÓ|æå^ÁÓ[|œÁ[¦Árã @}^••ĒÅkæā]îĒÓ|æå^•Á(@)\*|åÁà^Á^]|æ&^åÁ¸@} c@^Áæd^Á;[¦}Ár¢&^••ãç^|ÊÁà^}dÊár^4;{ ^åÊÁ;¦Á;°dÁ;Ækææ)&^È

A CAUTION

Ó|æå^•Á•Q´|åÁæd; æê•Áà^Á^] |æ&^åÁð;Á;æðe•ÈÓ|æå^•Á;Ášã~^\^} oÁ; ^ð @•Á&æ) Á&æĕ•^Á•^\ð;ē ð àææ) &^Áæ;åÁåæd;æð^Át;Áo@Á;æ&@ð;^Áæ) åÁ;^\•[}}^|ÈÝ @}Á^] |æ&ð;\*Áà|æå^•ÊÁæd;^Á&æd^Át; |^] |æ&^Ác@Áà|æå^Áà[|o•ÊÁ;\*o•ÊÁæ) åÁ;ææ@\•È

#### **Important**



#### **AWARNING**



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

Tænfo^}æ)&^ÁÙ^&cna[}ÁiËFÌ

#### ROTARY KNIFE REPLACEMENT

- FÈ Ó^Á'; \^Á['Á@ec,^Áæ&{] \ \c'Á; æc&@] \* Á\^cÁ; Á} ãc,^•Á; \Á\] æc\{ ^} cÈ
- HÈ Š à ^Ác@^æå•Á, ãc@Áæ) cã ë ^ã ^ÈÁQ.• cæ|Áå[|ọ·Ác@[ \* @Á} ã ^Áæ) å Ååã à \Á¦[ { Áà[ cq[ { Á ãã ^Á; -Áåã \ Eà|æå ^Áàæ ÈÁ Q.• cæ|Á, ^, Á•/-Ë[ &\ ā] \* Á; \*Á \* · Ó Áæ) å Áá[  $\stackrel{\cdot}{\cdot}$  ` ^Ác@ { Áţ Â, €€ÁcĒ/à• È
- IÈ V@Á}ãç^•Á@[ˇ|åÁ、ã,\*Á¦^^|ˆÁg Áæà•[¦àÁ@]&\•Á;[{Áξ]]æ&οÁ;@}Ádãã,\*Ájàb\&oÈÁ

**≜**WARNING

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

#### REPLACEMENT OF ROTARY DISK/BLADE BAR

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

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

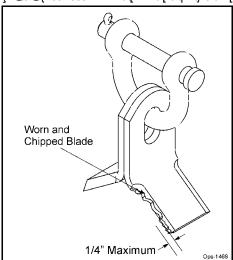
Ó[[{ Tænije^}æ)&^ÁÛ^&anij}ÁiËFJ

#### **Flail Blades Inspection**

**A** DANGER

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- " OE; ^Á& æ&\ Áæ d^Áçã âà | ^ÊÁ ¦Á
- ~~ Õ[\*\*^•Á;¦Á&@ā]]^åÁseb^æeÁā,Ás@ Á&° ccā,\*Á°å\*^Áseb^Áæd\*^¦Ás@æ),ÁπÐ +Q`{ ΩΦÃ;¦Á
- ″ V@ Á, æe^\ãædÁ, }Ás@ Á∧æåã, \*Á∧å\*∧Á@æ, Áà^∧}Á, [¦}Áse, æê Áà^Á, [¦∧Ás@æ) ÁπÐ +Q}{ { D

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



#### OE, æê•Á^]|æ&^Áa|æå^•Áa|Á^o•

Ý[[{

Tæājo^}æj&^ÁÛ^&cā[}ÁiËG€

#### **Blade Pins and D-Ring Inspection**

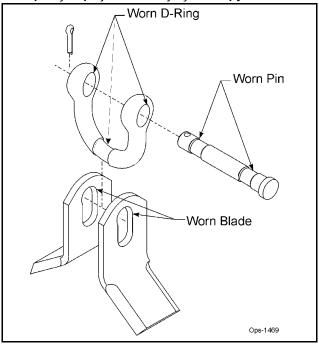
Q•]^&dÓ|æå^ÁÚ∄,•Áæ)åÁÖËÜ∄,\*•Áåæãî^Á[¦Á,^æÁ,¦Áåæ(æ\*\*^Áæ Á[||[,•KÁ

**A** DANGER

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

- ″ Xãaãa |^Á& læ& \•Ái¦
- QÁxÁÚ¸á,Á¸ÍÁÖËܸá,\*Áœ;Á¸[`\*^•Á¸Í,ÍÁ&@]]^åÁæ;^æ;

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



**Important** 

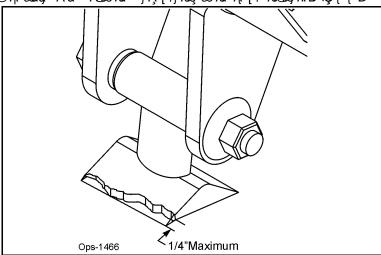
QÁc@ÁS[cc^\á,ā]•Ásd^Ásl[\^}Ása^ÁS[}cæ\$cÁ¸ãc@Á;c@\Á|æālÁs|æå^•ÉÁ^{[ç^Ác@Á]ā,ása}åÁ^ç^\•^
c@Áŝā^8cā[}Ác@Á,ā]Ása^Áş•^\c^åÁc@[\*\*@Ác@ÁÖEÜā;\*Á[Ác@æÁc@ÁS[cc^\á,ā]ÁsaÁ;Ác@Á]]][•ãc^
•ãa^Á;Ác@ÁÖEÜā;\*ÉÁv@áÁ¸ā]Á;\^ç^}cÁc@Á,^¢óÁ^óÁ^óÁ;Ás|æå^•Á\[{Ár¸ā]\*ā;\*Ásæ&Aæ}åáæá;\*
c@ÁS[cc^\á,ā]ÈÁÁops-u-0045

Tænag (c^) æng & ^ ÁÛ ^ & canag ( ) Án ÉGF

#### Flail Axe Blades Inspection

A DANGER

- $\tilde{C}$   $\tilde{C}$
- $\mathcal{L}$  Uçæ $\hat{A}$  @e $\hat{A}$  ^æ $\hat{A}$  •æ $\hat{A}$  •æ
- ″ OE, Â&, a&, Ásd, ^ Áçã; ãa | ^ ÊÁ; ¦ Á



Ott, æê•Á^]|æ&^Áa|æå^•Áa, Á^o•

**Important** 

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**A** CAUTION

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

Ó[[{ Tænag e^}æng &^AÛ^&ang]}Án ËEGG

#### Flail Axe Blade Bolt Inspection

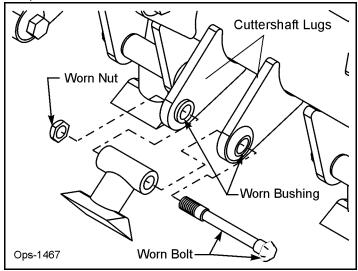
Q•]^&oÁÓ|æå^ÁÓ[|o•Áåæáj^Á[¦Á¸^æhÁ;¦Áåæ{æ\*^Áæ•Á[||[¸•K

**A** DANGER

 $Q \bullet ] ^8 a \acute{A} \circ @ \acute{A} \circ \mathring{A} \circ$ 

- ″ Xã•ãã।^Á&¦æ&\•Á∖¦

 CE, æ・Á^] | æ& ÁÓ| æå^ÁÓ| [ | o Á, ão@Á,^, Áà[ | o Áæ) åÁ,^, Áà \* · @ \* · Á, @ } ^ ç^¦Á^] | æ&ā, \* Áœ ÁÓ| æå^• ÈÁ[ Áæ] @ \* 〉 Áæ[ | o Áæ] åÁ, \* o ÉÁā · oÁæ] | ^ Áœ Áæ] ( Áæ] Áæ] ( Áæ] & Áæ] ( Áæ] & Áæ] ( Áæ] & Áæ] ( Áæ] & Áæ] & Áæ] / · Áæ] åÁ [ oÁæ] åÁæ] & Áæ] & Áæ



Tædic^}æ)&^ÁÛ^&cdi}ÁiËGH

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

- CĒ QĒ, æê•Á^] |æ&^ÁœÁ} ã^Áa[ |œÁ¸ @}Á^] |æ&ã, \*ÁœÁ} ãç^• ÞÖUÁÞUVÁÜÒWÙÒÁ/PÒÁ SÞØÒÁÓUŠVÙÁUÜ ÞWÙÈ
- HÈ  $Ce \cdot \{a \mid \land A\} \tilde{a}_{\land} \cdot \tilde{b}_{a} \cdot \tilde{b}_{a} \cdot \tilde{b}_{a} \cdot \tilde{b}_{a} \mid o A_{a} \cdot \tilde{b}_{a} \cdot \tilde{b$
- 1 È Q cæll Ác@ Á 1 &\ ā \* Á@ ¢Á \* cÁ [ Ác@æcÁ@ ÁlæcÁæ&^ Á Ác@ Á \* cÁē Áf . ælå Ác@ Á } ã^ È
- ÍÈ OEI]|^ÁŠÍ&cãa^ÁQÏFÁI¦Á^ĭãcæl^}oÁsfÁc@^æå.•È
- ÎÈ V[¦˘ˇ^Á,˘oÁqÁ,€ÁdÈÁ)à•ÈÁS}ã^Á,Čઁ•oÁn,ãj\*Á√,^^|È

**▲**WARNING

ÖUÁÞUVÁ^Ë•^Ác@Á[&\ā]\*Á@¢Á;\*o•Á{¦Á;[`}cā]\*Ác@Á\}ãç^•ÆQÁ@¢Á;`oÁà^&[{ ^•Á[[•^Æ[¦ ¦^``ā^åÁ¦^{[çæ|Á-[¦Á\}ã^Á.^]|æ&^{^}oÁ[¦Áæ)^Á[c@¦Á;^æ=[}Æc@^Á;`•oÁà^Áåã&æåå^åÁæ)å ¦^]|æ&^åÁ;ã@Á^.Á;\*o•È

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

- ÌÈ ŒŢæŶÁ^] |æ&^ÁœÁ}ã^Áæ[ |œÁ¸@}Á^] |æ&ð;\*ÁœÁ}ãç^•ÆÖUÁ>UVÁÜÒWÙÒÁ/PÒÁ SÞŒÒÁÓUŠVÙÁUÜ ÞWWÙÈ
- JÈ OE•^{ à|^Á}ãç^•Éà`•@a, \*•Éà[ |o Áæ) åÁ, \*o Áæ Á Q; }ÁB, ÁÚæ o ÁÚ^&a[}Á, Á∞ Á; æ) \*æ|È
- FFÈ O[[]|^ÁŠ[&cãz^ÁG|FÁ;¦Án~~ã;æd^}cÁ;Ác@^æå•È
- FŒ VI¦ˇˇ^Á¸ĭ œ́[ÁFŒ€ÁœÈÁà•ÈÁS} ã^Á; ˇ•œ́, ã¸\*Á¦^^|È

**▲**WARNING

 $\ddot{O}U\dot{A} DUV\dot{A} \wedge \ddot{E} \bullet \wedge \dot{A}c@\dot{A}[8 \ddot{a} * \dot{A}@ \phi \dot{A}] * \dot{A}@ \phi \dot{A} \wedge \dot{A}@ \dot{A} \wedge \dot{A}@ \dot{A} \wedge \dot{A}@ \dot{A} \wedge \dot{A} \otimes \dot{A} \wedge \dot{A} \otimes \dot{A} \wedge \dot{A} \otimes \dot{A} \otimes \dot{A} \wedge \dot{A} \otimes \dot{A} \otimes \dot{A} \wedge \dot{A} \otimes \dot{A} \otimes \dot{A} \otimes \dot{A} \wedge \dot{A} \otimes \dot{A} \otimes$ 

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

- FHÈ QÁ}ã^•Áæ•Áåæ(æ\*^åÁ;¦Áàæå|^Á;[;}ÊÁ@^Á;āļÁ,^^åÁ;Áà;Áò]|æ&^寕ÁæÁ\*oÆÄ\]|æ&Aå Áæ•ÁæÁ\*oÆÄ\]|æ&Aå \*ÁæÁ;ā \*|^Á}ã^ &æ)Á&æ\*•^Á•^ç^\^Á;ã^Á&æ)Á&æ\*•^Á•^ç^\^Áçāā;æā;}Áæ)åÁ;[••āa|^Áåæ(æ\*A\*ÇÁ;Ác@Á([¸^¦ÈW/@Á;}ã^ •@; |åÁ;[Æà^Á,^|å^åÁ;}Á;;Áæ)^Á^æ[}È
- FÍÈ CE•^{ à |^Á| ãç^• Êài @ \* Êài | o Ásè å Á, ° o Áse Á @ . } Ás ÁÚædo ÁÛ^8@ 1} Ár Ás@ Á æ) ≈ ælè
- FÎÈ Q•cæ|Ác@Á|&\ā.\*Á@¢Á,\*ÓÁ[Ác@æÁc@Á\æÁæ&\Á.Ác@Á,\*ÓÆÁI,æá.ê.Ác@Á)ã^È
- FÏÈ OŒŢŢÊŢ&cãe^ÁĢÏFÁŢÁŠŢãcæl^}cÁŢÁc@^æå•È

**AWARNING** 

ÖUÁÞUVÁ^Ë•^ÁœÁ[&\ā;\*Á@¢Á;\*œÁ[¦Á;[`}æ¾\*ÁœÁ}}ãç^•ÆQÁ@¢Á;\*œÁ;\*óÀà^&[{^•Á[[•^Æ[¦ '\^`ã^åÁ'^{{ [çæ|Á-[¦Á\}ã^Á.^]|æ&^{^}óÁ[!Áæ},^Á[œ]¦Á'^æ=[}Ææo@^Á;`•oÁà^Áåã&æåå^åÁæ)å '\^]|æ&^åÁ;ãæÁ,¸Á;\*œÈ

Ó[[{ Tæaa, c^}æ, 2 & AÛ^&aa[} Á ËG]

#### 63" BOOM FLAIL KNIFE REPLACEMENT

- FÈ QÁ}ãç^•Áœ¢^Áåæq æ‡^åÁ¸¦Áàæå|^Á¸[;}ÊÁœç^Á¸Ä¸IÁ¸^^åÁq¸Áæ^Áò^]|æ&¢åÁæé^ÁœÁ^dŽÜ^]|æ&å¸\*ÁœÁ¸ã¸\*|^Á⟩ã^ &æð;Á&æĕ•^Ár^ç^¦^Áşãà;æã¸JÁœð¸åŸ[••ãa|^Áåæé¸æ\*^Áq¸ÁæÉ,åæ°Áq¸Á;É

- IÈ OE[]|^ÁŠ[&cãe^ÁQÏFÁ;¦Á~`ǎcæ∮^}cÁs[Ác@,^æå.•È
- ÍÈ VỊ; "^Á, "CÁĘ ÁHÍ ÁZ VỀŚĆ Ú ỀŚS ) ú Á, "• CÁ, ¾ \* Á; ^^ | È

**AWARNING** 

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

**AWARNING** 

Knives should not be welded on for any reason.

# HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

WARNING!ÁQÐÁ; \^••ÁT WÙVÁà^Á •^åÁq Áð; •œḍÁà^æð; \*Á&`]•ÊÁà^æð; \*Á&[}^•ÊÁæ; åÁ·^æþÈÖUÁÞUVÁ •^ÁæÁæ; { ^\
d Áð;•œḍÁæ&^•ÊÁà^æð; \*•ÊÁ\Á^æþÈÁ@Á; Áðæ•^{ à Â`Á; æðÁà^Áàæ; æð^åÈÁ

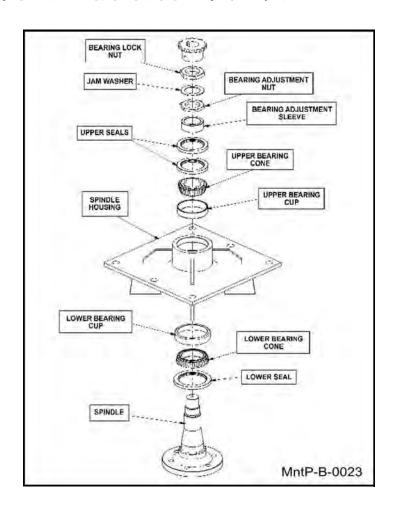
 $\textbf{NOTE}(\hat{A}) @ \hat{A} | \wedge 20 \wedge \hat{A} \wedge | \wedge \hat{A} \otimes \hat{A} \wedge \hat{A} \wedge \hat{A} \otimes \hat{A} \wedge \hat{A} \otimes \hat{A} \wedge \hat{A} \otimes \hat{A} \otimes$ 

Ó^Áiˇ¦^Áq[Á¸^ædÁn^^Á¸¦[ơ^&cqā]¸Áæq¸åÁq̄c@¦Á¸¦[ơ^&cqā,^Ánˇˇā]{^}ơÁæ•Á¸^^å^åŸ@}¸Á¸[¦\ā¸\*Áq¸ā¸å|^Áæ••^{à|^È

Tænāk (c^) æn) & ^ÁLÚ^&cnāk }ÁN ËEGÍ

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#### THE SPINDLE ASSEMBLY



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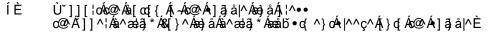
### **MAINTENANCE**

**UPPER** 

BEARING CUP

#### **BEARING INSTALLATION**

- FÈ Ú¦^••Áˇ]]^¦Áà^æðā,\*Á&ˇ]ÁB, q[Ác@·Á•]ā,å|^ @/ˇ•ā,\*E
- QÈ V°¦}Án@Án]ājå|^ÁQ0°•āj\*Án;ç^¦ÁnanjåÁn;¦^••Áāj c@Án[¸^¦Ánà^æbāj\*Án°]È
- IÈ Q•ca|Ác@Á•]ā,å|^Áā,Ác@Á@;\*ā,\*ÈÁŠā @|^ ]¦^••Ác@Á•]ā,å|^Áţ,Å^aæÁc@Á\$[}^Á;}q,Ác@ •]ā,å|^È





- ĬÈ Ú¦^••Ác@Áç[Á]]^¦Ár^æþÁş (Ác@Á)] ājå|^Á@`•āj\*ÈV@Áş}^¦ÁjājÁ;Ác@Á^æþÁ; •oÁà^ÁNÚÉÆæçæÂ;[{ c@Áà^æðāj\*ÊA[Á^¢&^••Á;àlææ;óÁsæ;À°•&æ}^E
- ÌÈ Q•cad|Ác@Áà^ædā\*Áæåbŏ•d;^}cÁy`óÁç@āÁy`dDÁ•[Ác@¦^ÁæáfæÉÐÐ+Á&|^ææaj&^Áà^c;^^}Ác@Á,`óÁæàjåÁc@ •|^^ç^ÈÁQ•cad|Ác@Áæd;Á;æ@¦ÊĴ|æ&dā;Á;@ÁæàÁājd;Áæ@Á^^Ë;æêÈQ•cæd|Ác@Áà^æðāj\*Á[&\Áj`óÁç@ājÁ;dD æjåÁ@æjåÁçāt@c^}Áætæāj•óÁæd;Á;æe@¦ÁæjåÁæåbŏ•d;^}oÁy`dEÁU^^Ác@Áf;||[¸āj\*Á•^&dāj}Áf;¦Áà^æðāj\* æåbŏ•d;^}dĒ
- JÈ Ú[•ãā]}Ác@Á•]ā¸å|^ÁQ;•ā¸\*ÁQ;¦ã[}æ||^Á¸ão@ÁœÁå;æã¸ÁQ;|^Á;;å>}৫°åÁ‰]+ÈÁÕ;|^æ•^Ác@[`\*@Ác@Á^;\ ¸ão@Á⁄ã^¦ÁÙ]ā¸å|^ÁŠ`à;ã&æ¸óQ;æċó¸;°{à^;ÁÉ]Í|€€€€ÐÁ;¢ā¸Á@;A\*;|\*\*^•Á;[{Ác@Áå;æã¸ÁQ;|^È
- F€È Q• cæ|Ás@Á| \* Á§ d Ás@Ás| æ§ Á@|^È

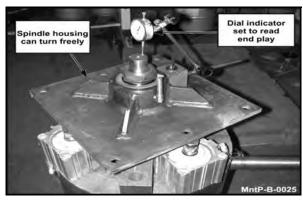
#### **BEARING ADJUSTMENT**

- CÈ Ú[•ãá]}ÁæÁ(æ\*)^cæRÁàæ•^Áåãæ4Á3;åå8æ€[¦Á[}
  c@Á[\*c\*¦Áåãæ4^c\*c\*¦Á;Áæ@Á•]ā;å|^Á@\*•ā;\*È
  S[&æe\*Ác@Á\*)åÁ;ÁœÁåãæ4Á3;åä8æ€[¦Áæ±æð]•c
  c@Á|æeÁ\*)åÁ;Áæ^Á\*]ājå|^Á•@æeÆW@Áåãæ4
  ājåä8æ€[¦Á;ā]Á}[;Á;^æ•\*|^Áæ&:&\*¦æe\*|\*
  à\*æå‡\*Á\*)åÁ;|æÉ
- HÈ Vã @^}Ác@^Áà^ædā\*ÁæåĎ•d(^}cÁ}`cÁ`}dā c@\^ÁãÁÆFGÁā&@Á[[ç^{^}oÁ]@}Ác@ •]ā¸å|^Á@`•ā¸\*Áā¸Á¸¦ā^åÁ`]¸æåÁæçæÂ√;[{ c@^Áçã^Áæç•E
- IÈ Y@}Ác@¦^ÁnáÁÈEFGÁnj&@Á¦^^Ánj|æêÁnà^c,^^} c@Ánjajå|^ÁnajåÁQQˇ•āj\*ЁÀnj•cæ|Ác@Ánà^æðj\*Á|[&\ÁnjˇcÁqc@ank\ÁnjˇcDÉAP[|åÁc@Áæaåbŏ•cāj\*ÁnjˇcÁn^&ˇ¦^|^Ánajå cā @^}Ác@Ánj&\ÁnjˇcÁnjÁntEEÁcEÁnà•ÈÁnjÁnj¦´`^È
- ÍÈ Œơ\¦Ác@Á[&\Á,ˇơÁn Ácỡ @^}^åÊcœ\¦^Á(ˇ•ơÁn ÁÈŒEFÁn & @Á(ÁÈŒEHÁn) & @Á(Á¦^^Á) |æêÁ, @}Ádð @d^Á) ¦^ð, ¦^ð, 'Å [}Ác@Á]ð, å|^ÁqQˇ•ð, \*ÈÁ

 $Q\acute{A}c@\acute{A}'\} \mathring{a}\acute{A}| | \nota \hat{A} \nota \hat{A} \nota \hat{A} | | \dot{A} \nota \hat{A} \nota \hat{A} \nota \hat{A} | | \dot{A} \nota \hat{A} \nota \hat{A} \nota \hat{A} | | \dot{A} \nota \hat{A} \nota \hat{A} \nota \hat{A} | | \dot{A} \nota \hat{A} \nota \hat{A} \nota \hat{A} | | \dot{A} | | \dot{A} \nota \hat{A} | | \dot{A} | \dot{A} | | | \dot{A} | | \dot{A} | \dot{A} | | \dot{A} |$ 

QÁc@Ár}åÁj|æÁr ÁrUVÁ&[;¦^&dÉAj[[•^}Ár@Áj &\Áj`óÁæ)åÁr`¦}Ár@ÁæåĎ•q´^}óÁ; óÁæ•Á^`ã^åÁæ)åÁ^Éæã@^}Ár@ [[&\Áj`dÉÜ^]^ææÁã•oÁjæóÁj-Ár@^]ÁtÉA

Ó[[{ Tæiji c^}æ) &^ÁÛ^&caji} Ái ËÜ



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

- FÈ Ô|^ædÁs@Ásd^æÁjÁsd|Áj^!•[}}^|Ásh^{-{+\A[;^|;ā]\*Ás@Ás[[{Á;[;^|A@æsbÈ
- $\begin{array}{lll} \dot{\textbf{L}} & \dot{\textbf{L}}$
- IÈ OE[[Ás@Án^•c^{Ás[Ás[[As[[As[[{Ác^{]}}]^{ac'}]^{ac'}]^{As[As[[çā]\*Áse]^A@å|æ'|æ&As[{][}^}o•
- ÍÈ Y^ælÁnæ^cÂt|æ∙•••Áæ)åÆa[]^}^dæà|^Át|[ç^•Á,@^}Á,[¦\ā,\*Á,ão@Á@妿ĕ|a&A@(•^•Áæ)åÁãoā)\*•È
- ÎÈ Ü^|^æ•^Áæ||ÁţāļÁ;|^••ˇ|^Á+[{Ás@Á@å|æĕ|a3cA&āl&ãoÁa^Á;æ);æ|^Á+d[\ā]\*Áræ&@Áçæ‡ç^Ár^&caf}}Ájāc@Ás@Ádæ&Ë d[|Á\*]\*\*āj^Aţ~—ĒANcājā^Ás@Á;æ);æ|Aţç^||;āā^Á;}&caṭ}ÁsÁ@Á;āóÆa Ár`šāj]^åÁ¸āc@Ás)Ár|^&d;a&A;ç^|Á@å|æĕ|a&Á çæ‡ç^È
- ÏÈ Woājā^Áaj[&\•ÊÁase&\Árcæ)å•Á;¦ÁseÁrǎāaæà|^Á;ç^¦Á@ræåÁ@lāroÁ[Árˇ]][¦οÁs@rÁ;^Áz@rÁa[[{Ár^8cā[}Áse)åÁ |^{[ç^A;|^••ˇ|^Á4;|{Ás@rÁscî[ā;å^¦Á;[ˇ}cā]\*Á;ā]•È
- ÌÈ Ô@&\Á[Á^^Á;@eÁ@Á@Á&^|ā]å^¦Á[Áà^Á^]|æ&^å/ásÁ;[cÁ}å^¦Á;|^••\*;|^Ás^Á;[çā]\*Ás@Á&;]ā]å^¦Ájā]•Ás^Á; @æ)åÈV@Ájā]•Ás@\*JåÁs^Áj[[•^Ásæ)åÁs@\*]åÁs|@å\*Á¦[{Ás@Ajā}Ás[¦^Áræa;āÈQÁs@Ájā]•Ásc}Ásā;@Áse)Ë }[cÁs^Áj[ç^åÊÁs@Ás^[ā]å^¦ÁjæáÁs^Ájå^¦Áj\*••\*;|^ÉTæà^Á\*;|^Ás@Ás[[{Ás[{][}^}o\*Ásc}Áj;[]^¦]^A;"]Ë ][¦c^åÁse)åÁs@æÁs@Áj¦^••\*;|^ÆsÁ^[āç^åÁ;[{Ás@Ásā&\*ãtÁ
- F€È Ù|[, |^Á|[ [•^} Ác@Á@å!æĕ |ækks[}}^&cā|} •Át Ác@Ás^|ā å^!ÈÓæó^~ ||^Á} •&l^, ÁQ•^Áācā,\*Ás åÁsd|[, Ás)^Á |^{ æā}ā,\*Á;!^••`!^Át Ás |^^åÁ; ~EŹUse extreme care.ÁUā/Á; \*•Ósa^Ás[, [|Êse)åÁs@Ác&@æ&ææð Ác@\*iåÁ; æð åÁ d, Ås@Ásâ^Át Á;!^ç^} óÁ¢] [•`!^Át Áse)^Á@å!æĕ |æká; āÞÁOT, æð •Ás[, }•`|oÁs@ÁTæc^iæðhJæ^ĉ ÁÖæææðD@^oÁse)åÁ , ^æáÁse)^Á^` ã^åÁÚ^!•[}æþÁÚ![ c^&cāç^ÁÖ` ã { ^ dÉOZÉ&ææ&@Á;æ;Á; æð Ás^Á^` ã^åÁt Á^cæā,Áse)^Á; ā|åÁ [āÞÁ
- FFÈ  $\hat{O}$ ad Áti  $\hat{O}$ AÁ  $\hat{A}$ AÓ Áti  $\hat{A$
- FCÈ Ü^{ [ç^Ás@Ásc | ā å^¦Á,ā •Á œdcā,\*Á ã @Ás@ÁÜUÖÁN} å Ásc | ā å^¦Á,ā jEÁT æà^Á\* ¡^Ás@Ásc | ā å^¦Ása Á; []^!|^Á
  •\*]][¦ơ å É à å Á^{ [ç^Ás@Ásæ ^Án} å Ásc | ā å A å Æsc | Ā ásc | Ā
- FHÈ T ^ æ• ` | ^ Ás@ Ásã cæ) & ^ Ás ^ ç ^ ^ } Ás@ Ásî | ā, å ^ | Á, ā, ÁQ | ^ Áse) å Á ¢ ¢ ¢ \} å Ás@ Á, ^ ¸ ÁSî | ā, å ^ | Ás@ ÁS[ | | ^ & 6S[ | ] \* Cæ| æ ā] } È
- FÍÈ Ü^{ [ ç^Ás@ Á; ^ cælÁsæ] Ása} å Á^Ë; cælÁs@ Á@ 妿 | 38Á@ ^ È
- $\hat{\mathbf{F}}\hat{\mathbf{E}} = \hat{\mathbf{O}} \otimes \mathbf{A} \hat{\mathbf{A}} \otimes \hat$
- FÏ È Ô|^ækfo@ Áse\^æfi -Áse||Á,^¦•[] Á; ¦ā; kfi Á; æcē; \* Ás@ Áslæ&cf; ¦È
- FÌÈ  $\hat{O}[\} \bullet [A\hat{O}] \land A\hat{O}] \land A\hat{O}[] \land A\hat$
- FJÈ  $\varnothing$ [{ Ás@Ás!as&c[¦Ás^ae£Ã,ãs@Ás@Ás^aeÆ\$s^|cÁsæc}^å^â£Ã,]^!ææ^Ás@Ás[[{ Ás[Ás}•`!^Á;![]^!Ás]^!ææã}}Á; Ás@Á à[[{ Á`}&cã}}È

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

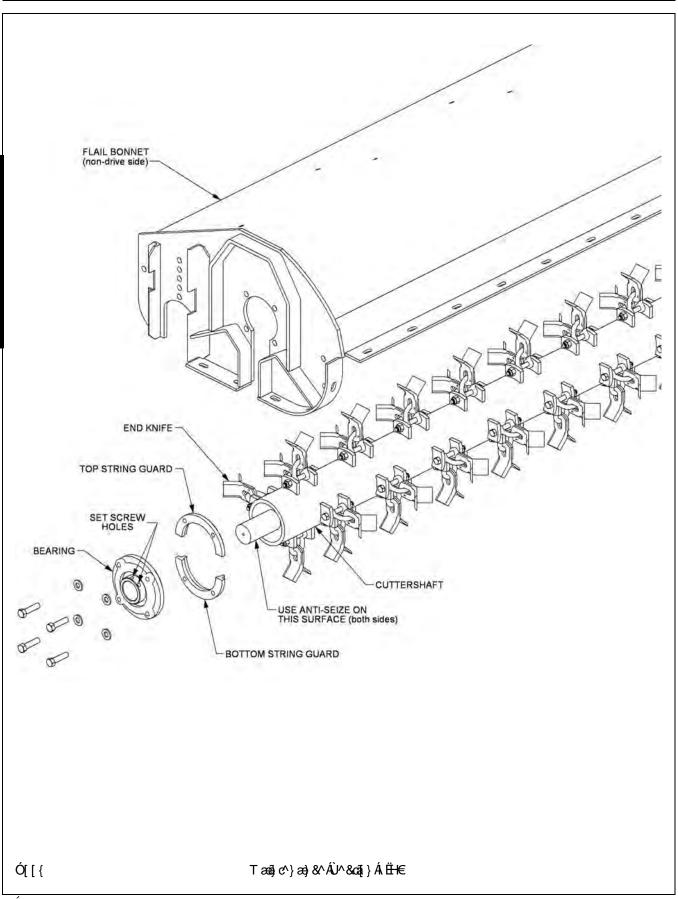
Ó[[{ Tæig c^}æ) &^ÁÛ^&æi[}Á ËËÌ

#### **CUTTERSHAFT BEARING REPLACEMENT**

- FÈ Ü^{ [ c^Á\¢ã cã \* Á& cc^!• @eedÉà^ætã \*• Áæ} åÁdã \* Á\* ætå• È
- CÈ Tæ\^Á`¦^Ás@æÁs@Á\}åÁ\}ãç^•Á\}Á\æ&@Á\}åÁ, Ás@Á&`cc^\•@æAæ\^Á\¦ā\}c^åÁæ Á @ ] }È
- HÈ  $CI_{1}$  |  $^{\hat{A}}$   $ca^{\hat{B}}$   $^{\hat{a}}$   $^{\hat{A}}$
- IÈ Q• cæ|Á,[} Ëå¦ãç^Á;ãå^Áà^æ;ã;\*Áã• cÈ
- ÍÈ Q,•cæ|Ás@Áq[]Á;-Ás@Ádā;\*Á\*æåÁş}Ás@Á,[}Ëå¦ãç^Áaãa^Áa;•dĚÁV,•^ÁĞ[&cãc^ÁdïFÁ;¦Ár°čçæ‡^}cÁæ)åÁ d[¦``^ÁQÍÁdËàÁ;¦Ár€I-dËàÁsÁ[`Á.•^Áæ)Ár¢c^}•ā[}DÈ
- ÎÈ Q•cæddá@Aà^ædā\*ÁædaÁf]Ádā\*Á\*ædaÁf}Áo@Aådãc^Áaã^È
- ¨Ė Ô^} ♂¦Ás@Á&č ♂¦• @æóÁs^ç ^^}Ás@Ádāj\*Á\*ædå•ÈÁÁV•^ÁŠ[&cãcÁCÏFÁ;¦Ár`čãçæd^}oÁædjåÁg¦¦`č^Á QJÍ-αЁàÁ;¦Áπ€I-αЁàÁsÁ[čÁ•^ÁædjÁr¢♂}•ã[}DÁs@Ág]Ádāj\*Á\*ædåÁ;}Ás@Ás¦ãç^Ásãs^È
- ÌÈ Q,•cæ|ÉÁ.•^ÁŠ[&cãæ^ÁG¨FÁ;¦Án``ãçæ‡^}dÉæ)åÁ[;'`^ÁQÍ-cЁàÁ;¦ÁF€I-cЁàÁsÁ[`Á.•^Áæ)Án¢¢^}•ã[}DÁ c@Ás[cɑ[{Á:dā;\*Án`æ;åÁ;}Ás[co@Ásãa^•È
- JÈ Tæ\^Á\`¦^Ás@Á&`co^¦•@æcÆaÁs^}o^¦^åÈÁU}Ás@Á[}Ëålãç^Áaãa^ÉÁzð@o^}Á;}^Á\^ÓÁ&!^¸ÁaÁoÁa^æðā;\*Át}q[Á
  c@Á&`co^¦•@æcÈ
- FEÈ Ü^{ [ç^ka@ kj a@ kj a@ kj akj akj akj ajkakj EPî 44@ |^kaj q ka@ ks` a^k @ @ ks\ a^a a \* EKOÒÁÔŒÜÒZWŠÁÞUVÁU KÖŒF ŒOÒÁ/PÒÁ/PÜÒŒÜÜADPÁ/PÖÁӌ܌PÕÆFUŠÒÈ
- FFÈ Ü^] |æ&^Ác@Á^cÁ\&\^, ÁB,Ác@Áa^ædā,\*ÉÁ.•^ÁŠ[ &cãc^ÁCÏ FÁ; ¦Ár``ãçæb^} dÁdã @c^} Á; { (Ác@Á&`cc^¦• @æcÁ c@[`\* @kc@Á^, ÁQ!|^È
- FŒ Ü^{ [ç^Ás@ Á; c@ ¦Án^oÁs & l^, Áse) åÁn] ^æxÁs@ Áå¦āļā, \*Á; |[&^å ` |^ÁÇÙc^] ÆF€DĚÄÜ^] |æ&^Ás@ Án^oÁs & l^, Áse Á • cæc^åÆj ÁÙc^] ÆFFÈ
- FHÈ Ü^]^aæÁc^]•ÁJÁc@[\*\*@ÁFGÁ[}Ác@ Á&¦ãç^Á;ãå^È
- FIÈ Õ¦^æ•^Áa[c@Áa^æ+ð, \*•Á, ¦[]^¦|^È

### See illustration on next page

Tædic^}æ) &^ÁÛ^&cdi} Á ËGJ



### DAILY MAINTENANCE SCHEDULE V@Á;||[ ā,\*Á•^¦çã&^•Á•@\*|åÁà^Á]^¦;|{ ^åÁåæðā^Á;| Á^ç^;^ÁÌÁ@\*;•Á[-Á•^¦çã&^ÊÁ;||[ ā,\*Ác@^Áå^æðā^å { aaā, c^} aa) &^ Áā, • d` &aā[} • Áā, Áo@ Ái, ] ^ laae[ lop Ái, aa) čaaþÈ ´´´´´´´ÁÁÚ´{]Á&¦ãç^•@eedÁQÁ^``ã^åÁ,ão@Á&¦ãç^Ác@eedB{`]|^¦Á&@&\Á;¦Á^}åÁ;|æêÁæ;)åÁ;`à¦3&æe^ÁæeÁ.^¦\•È ´´´´´´´ÁÁÔ¦æ}\•@œeóÁœåæ]eo∖¦KÁQÁ↑˘¸ã]]^åÁ¸ão@Á¸àà^¦Á;[{{ ^o∙Á&@~&\Á&[}åãαã]}ÊÁ∧]|æ&∧ÁsÁ,ã•ã,\*Á;¦Á∰Á åæ{æ\*^åÈ ´´´´´´´ÁÁÚãc[cÁ,[ã,o∘KÁQ,b^&cÁ;¦^æ•^Á;}cã√ácÁsd;]^æ;•ÁæcÁ;}å•È ´´´´´´´ÁP^妿ĕ|æKÁ-ãccā\*•KÁÔ@&KA;¦Á|^æð•Á, ãc@Á]æð^¦Á[¦Á&æðåå[æðåÉÁVæð@c^}Á-ãccā\*•Á;¦Á¦^]|æ&^Á@0•^• ãa { ^åãæær^|^E ´´´´´´Á\$S}ãç^•HÁQ•]^&oÁg¦Á;Ã;•ã;\*Á;Áå;æé;æ;\*AåÁ}ãç∧•ÊÁ&@ea}\*^ÁQ}|^ĊÁg;{]|^c◇Á;^o∙DÁœ;A;^^å^åÈ `````ÁHÓ^|@~HÁÔ@^&\ ED\$\*@\$^} ED^]|æ&\$^Áa^|@~Áæ@~Á;^^å^åÈ ´´´´´´ÁTæāj,-¦æq ^Eà^&\kÁN}|^••Ájc@\;ãr^Án]^&ããð\åÁ^q;¦``^Áà[|o∙Áæ&&[¦åãj\*ÁqfÁ;¦``^Án]^&ãã&æaãj}•ÁājÁc@à • ^ &call } E ´ÁÁP^妿ĕ|ã&Á|ŸããÁ|^ç^|KÁŌĒååÊÉ\$Á^~Ÿã!^åÊÃ,^¦Á|ŸãåÁ^&[{{^}}åææā[}∙È ´´´´´´ÁÜ^ætÁkænákák¦ña^Ébà^ædā;\*Ákæ)\*^Áæd;åÁk@æcÁ&[`]|^k•KkŐk^æ•^ÁæeÁā;•d`&c^åÁā;Ác@Áå^ænáf^åÁ;ænā;c^}æd;&^ • ^ &call } E ´´´´´´´ÁÁÔ˙œ^\•@eexÁe)åÁ¹¦[ˇ}åÁ;||^\kÁÕ¦^æ•^Áæ•Á∮•dˇ&c^åÁ∮Ás@Áå^ææ∮^åÁ;æá∮c^}æþ&^Ár^&áá}È

Ù^\cab^A\^\-[`\]
T^@\K`````

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 $T a a b c^{a} a c^{b} a c^{b$ 

EEV@āÁjæ≛^Á;æå^Á8[]ā³åÁæ;åÁ •^åÁæ•Ájædó,Áæó,ÁåæájÁ;æájc^}æj&^Á[čáj^È

Tænagi e^}æn) &^ÁÛ^&can[}Á ËHF

Ý[[{

MAINTENANCE				
Ó[[{	Tæājo^}æ)&^Áù^&cā[}ÁnÉHG			
Í 4237 'Crco q'I tqwr 'Kpe0	. 55 5 1 59 50 70 500 1 11 12 15			

>8*III8 69B; 5@6FI H9
PARTS SECTION
Úzdo ľv&ď ) Í Ë

#### D5FHG'CF89F=B; ; I =89

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

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- 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 pur chase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.
  - 4. The manufacturer reserves the right to substitute parts where applicable.
- 5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
  - 6. The manufacturer reserves the right to change prices without prior notice.

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



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

Direct any questions regarding parts to:

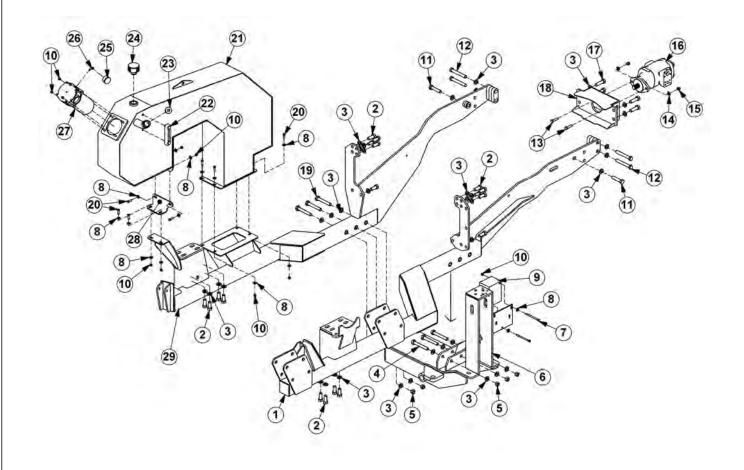
Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

RÖÎ ÝÝÝÖ ÓÒÞÕŒŠ ÓÜWVÒ ÚŒÜVÙ

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#### TRACTOR MOUNT KIT - FRONT PUMP



ITEM	PART NO.	QTY.	DESCRIPTION
1	06300237	1	AXL BRACE,RH
2	31731	20	CAPSCREW,20MM X 50MM,2.5P
3	33880	42	FLATWASHER,3/4",SAE
4	6T2309	3	CAPSCREW,3/4" X 5-1/2", NC

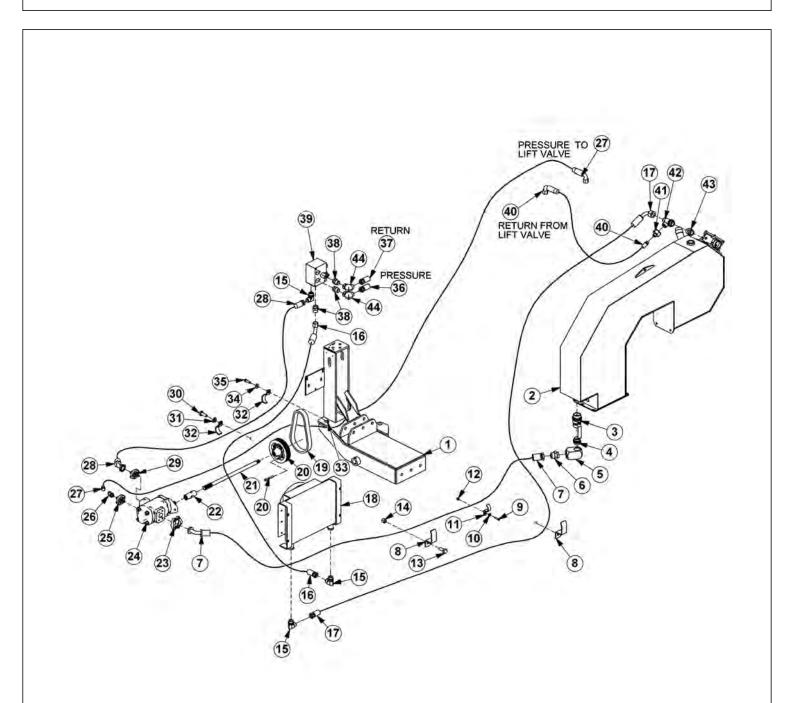
JD6XXXD BENGAL BRUTE

### TRACTOR MOUNT KIT - FRONT PUMP

#### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
5	21825	6	HEX NUT,3/4", NC
6	06300236	1	MAIN FRAME
7	21644	2	CAPSCREW,3/8" X 5", NC
8	22016	18	FLATWASHER,3/8"
9	06510083	1	VALVE BRAKE
14	21627	10	NYLOCK NUT,3/8", NC
11	30708	2	CAPSCREW,20MM X 90MM2.5P,
12	06530542	4	CAPSCREW,20MM X 130MM,2.5P
13	21733	2	CAPSCREW,1/2" X 2", NC
14	06533004	2	FLATWASHER,1/2"
15	21727	2	NYLOCK NUT,1/2", NC
16	23438	1	PUMP
17	25341	4	CAPSCREW,20MM X 70MM,2.5P
18	06380061	1	PUMP MOUNT
19	21842	3	CAPSCREW,3/4" X 5" NC
20	21631	8	CAPSCREW,3/8" X 1-1/4", NC
21	06700213	1	HYDRAULIC TANK ASSEMBLY
22	06505067	1	SIGHT GAUGE
23	06505127	1	PLUG,SAE #20
24	06505077	1	BREATHER,CAP
25	6T0649	1	FILTER GAUGE
26	TF4888	1	STREET ELBOW,1/8",NPT
27	06505044	1	RETURN FILTER
28	06412310	1	BRACKET,WELL TANK SUPPORT
29	06300278	1	AXL BRACE,LH

#### TRACTOR MOUNT KIT - HYDRAULICS FRONT PUMP



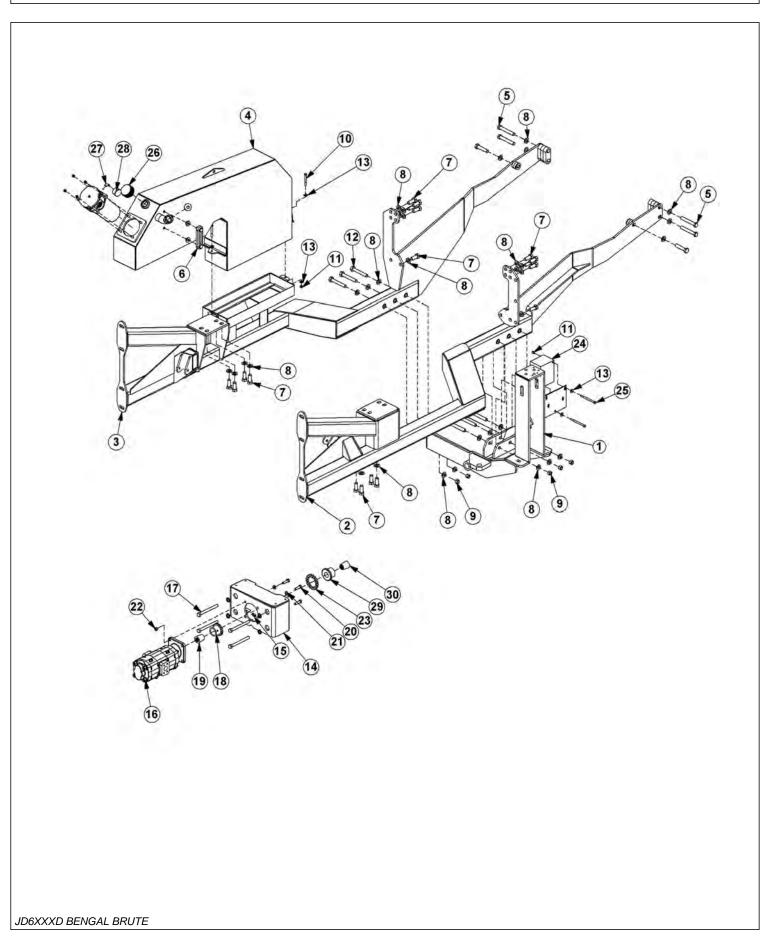
ITEM	PART NO.	QTY.	
1	06300236	1	
2	06700213	1	
3	34309	1	BA
4	06503083	1	ADA
5	06503084	1	ELI
6	34710	1	ADAI
7	06500746	1	HOSE,2

### TRACTOR MOUNT KIT - HYDRAULICS FRONT PUMP

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
8	32382	2	BRACKET,HOSE
9	21632	1	CAPSCREW,3/8" X 1-1/2", NC
10	22016	1	FLATWASHER,3/8"
11	06411136	1	BRACKET,HOSE
12	21627	1	NYLOCK NUT,3/8", NC
13	21832	1	CAPSCREW,3/4" X 2", NC
14	21827	1	NYLOCK NUT,3/4", NC
15	34117	3	ELBOW,1"MB X 1"MJ,FORGED
16	06500243	1	HOSE,1" X 97"
17	06400812	1	HOSE,1" X 197"
18		-	COOLER,FRONT MNT ASSEMBLY
19		-	JOHN DEERE BELT (EXISTING)
20	SJ23950	1	JOHN DEERE PULLEY KIT
21	06420116	1	DRIVE SHAFT
22	6T0375B	1	COUPLING
23	TF4854	1	KIT,FLANGE #24
24	23438	1	PUMP
25	06503174	1	KIT,FLANGE,#12
26	06503198	1	ELBOW,3/4" MJ X 12FL45°
27	06500811	1	HOSE,1" X 182"
28	06500744	1	HOSE,1" X 71"
29	TF4852	1	KIT,FLANGE,#20
30	30708	1	CAPSCREW,20MM X 90MM, 2.5P
31	33880	1	FLATWASHER,3/4"
32	TB3012	2	CLAMP,CROSSOVER TUBE
33	21727	1	NYLOCK NUT,1/2", NC
34	22018	1	FLATWASHER,1/2",WIDE
35	21732	1	CAPSCREW,1/2" X 1- 3/4" NC
36	06500684	1	HOSE,1" X 96"
37	06500683	1	HOSE,1" X 93"
38	33555	3	ADAPTER,1"MB X 1"MJ
39	06510083	1	BRAKE VALVE
40	06500496	1	HOSE,3/4" X 50"
41	35280	1	ADAPTER, 1-1/4"FJ X 3/4" MJ
42	34656	1	TEE,RUN,1-1/4" ORB X 1-1/4" MJ X 1-1/4"
43	34067	1	ADAPTER,1-1/4" MOR X 1-1/4" MJ
44	33259	2	ELBOW,1" MJ X 1" FJX 90°

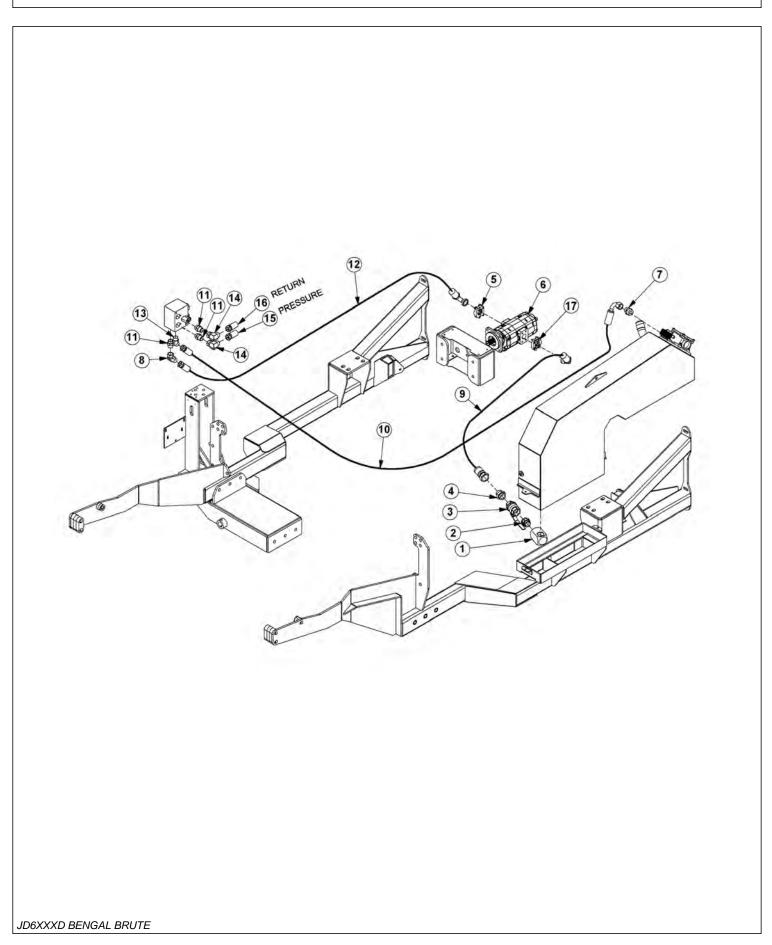
### TRACTOR MOUNT KIT - REAR PUMP



### TRACTOR MOUNT KIT - REAR PUMP

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300240	1	MAINFRAME, JD61XXD
2	06300238	1	RIGHT AXLE BRACE
3	06300239	1	LEFT AXLE BRACE
4	06700091	1	TANK, RES, ASSY, WHEEL WELL
5	06530542	4	CAPSCREW, 20MM X 140MM
6	06505067	1	SIGHT GAUGE
7	31731	20	CAPSCREW, 20MM X 50MM (2.5 PITCH)
8	33880	38	FLATWASHER 3/4" GR 8, SAE
9	21825	6	HEX NUT, 3/4" NC
10	21639	2	CAPSCREW, 3/8" X 3-1/4" NC
11	21627	4	NYLOCK NUT, 3/8" NC
12	21842	3	CAPSCREW, 3/4" X 5" NC
13	22016	6	FLATWASHER, 3/8" GR8
14	06380058	1	PUMP MNT, REAR, JD6105D
15	35176	1	U-NUT
16	06504131	1	PUMP, TNDM, P350, 2-1/4, 2-1/4 GR
17	06530543	4	CAPSCREW, 16MM X 170 MM
18	6T0373	1	SPROCKET, PUMP
19	6T0372	1	BUSHING, TAPERLOCK, (14 SPLINE)
20	21732	4	CAPSCREW, 1/2" X 1-3/4" NC
21	06533004	4	FLATWASHER, 1/2" SAE, GR8
22	21725	4	HEX NUT, 1/2" NC
23	6T1037	1	CHAIN COUPLING
24	06510083	1	VALVE, BRAKE, SOL, 3000PSI, METRI
25	21644	2	CAPSCREW, 3/8" X 5" NC
26	06505077	1	CAP, BREATHER, O-RING
27	TF4888	1	STREET ELBOW, 1/8"
28	6T0649	1	FILTER GAUGE
29	6T0371	1	SPROCKET, PTO
30	6T0370	1	BUSHING, TAPERLOCK, (21 SPLINE)
ı			

### TRACTOR MOUNT KIT-HYDRAULICS REAR PUMP

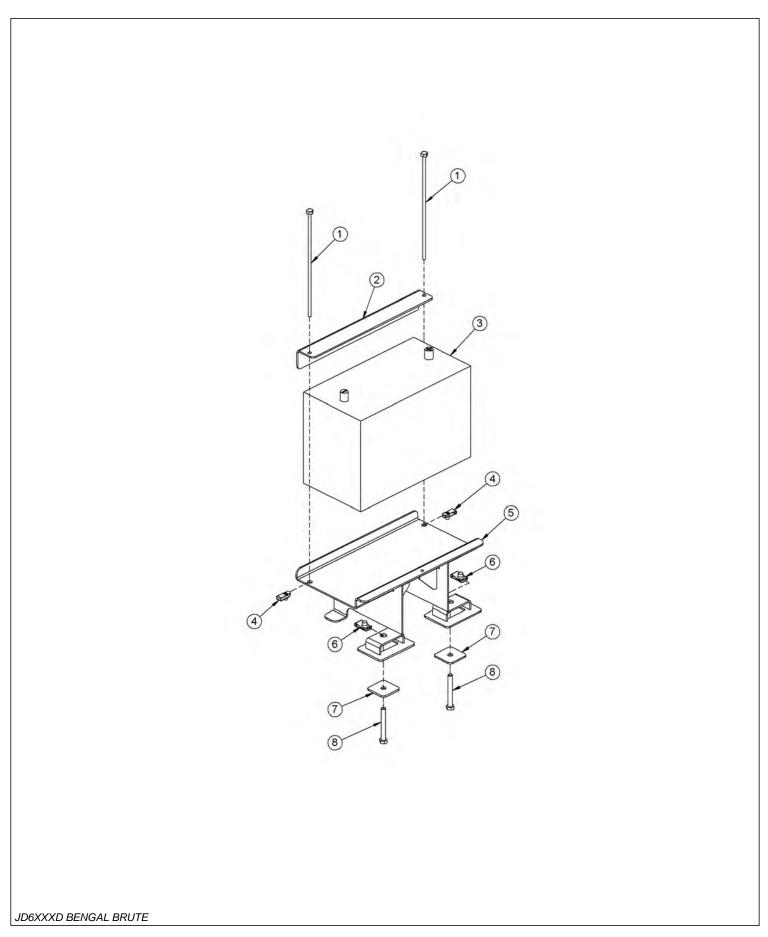


### TRACTOR MOUNT KIT-HYDRAULICS REAR PUMP

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06503084	1	ELBOW, 1-1/2" X 1-1/2" FOR
2	06503083	2	ADAPTER, 1-1/2"ORB X 1-1/2"ORB
3	35309	1	BALL VALVE, 1-1/2" FOR
4	34710	1	ADAPTER, 1-1/2"ORB X 1-1/2"MJ
5	TF4852	2	FLANGE KIT, #20
6	06504131	1	PUMP, TNDM
7	34064	1	ADAPTER, 1-1/4" MOR X 1" MJ
8	24724	1	SWIVEL, 1"MJX X 1" FJX 45°
9	06500674	1	HOSE, 1-1/2" X 80"
10	06500239	1	HOSE, 1" X 124"
11	33555	3	ADAPTER, 1MB X 1MJ
12	06500673	1	HOSE, 1" X 117"
13	33554	1	ELBOW, 1"ORB X 1" FJX 45°
14	33259	1	ELBOW, 1"MJ X 1"FJX 90°
15	06500683	1	HOSE, #16 X 93 (PRESSURE)
16	06500684	1	HOSE, #16 X 96 (RETURN)

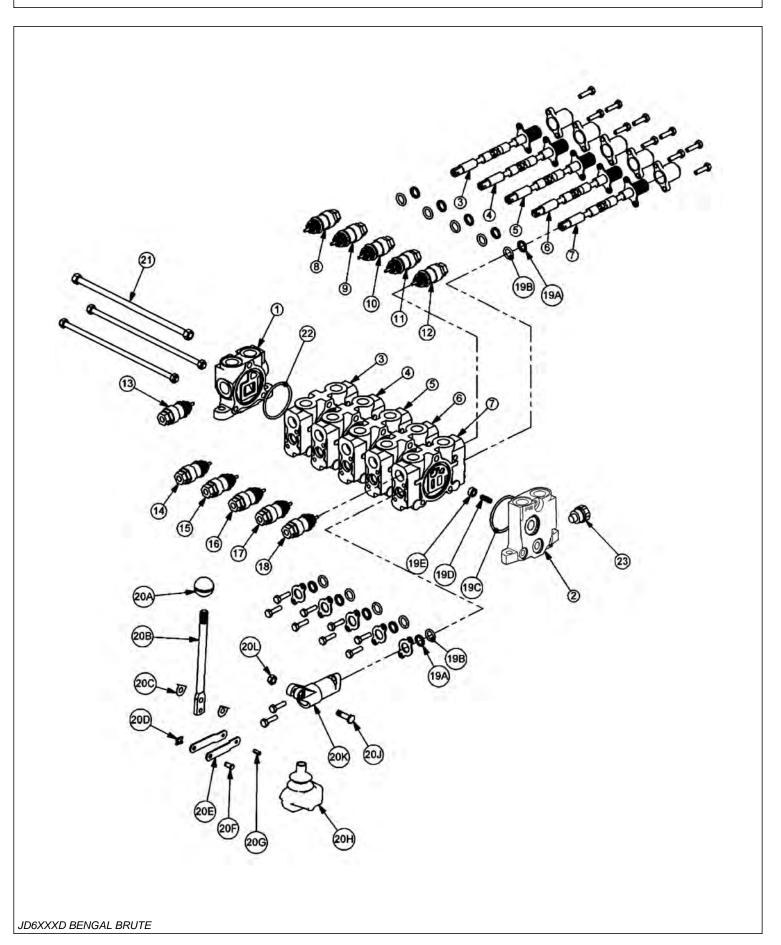
### **BATTERY RELOCATION**



### **BATTERY RELOCATION**

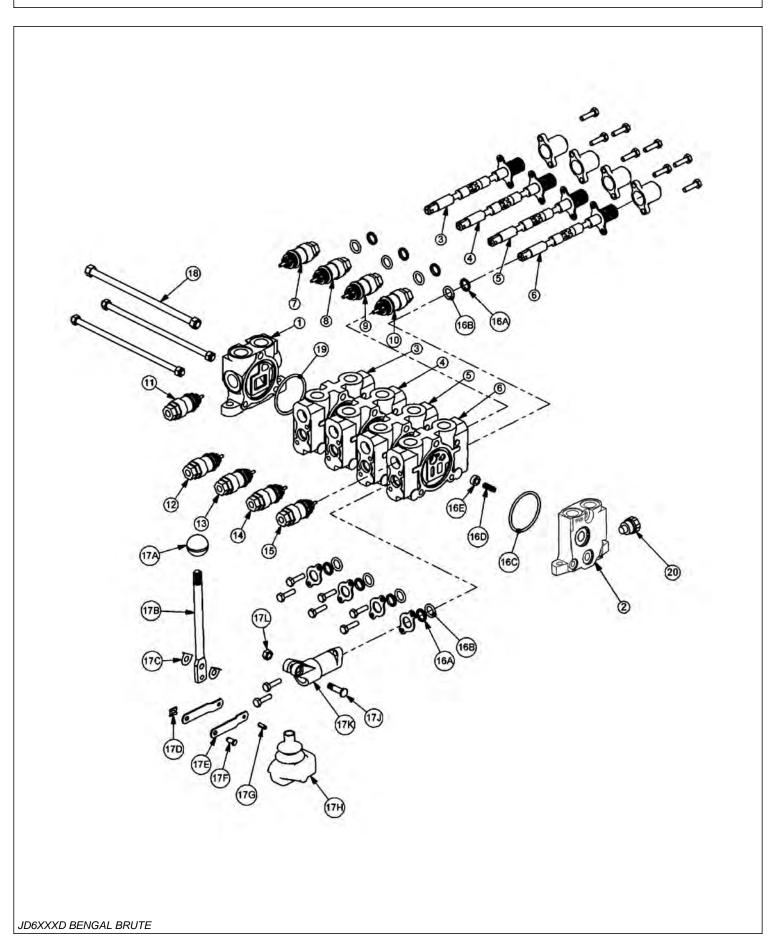
### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06530234	2	CAPSCREW,1/4" X 10",NC
2	06411429	1	ANGLE
3		-	BATTERY *EXISTING PART
4	35176	2	NUT CLIP,1/4",NC
5	06370231	1	RELOCATION BRACKET
6	06537029	2	NUT CLIP,3/8",NC
7	06401784	2	SQUARE PLATE
8	21638	2	CAPSCREW,3/8" X 3",NC



### Continued...

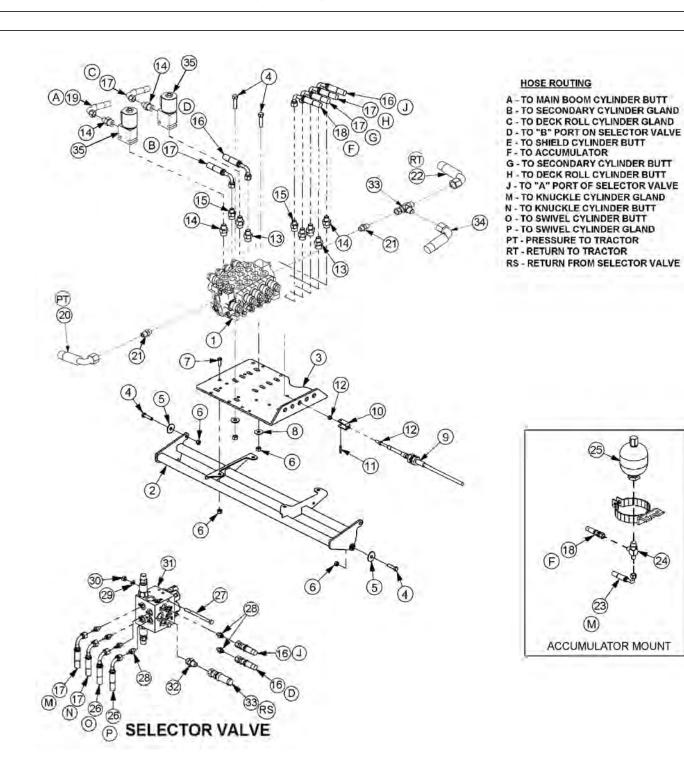
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502149	1	INLET END COVER
2	06502150	1	END COVER, OPEN CENTER
3	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	TB1017Q	1	VALVE SECTION (DOUBLE ACTING, SPRING METERED)
7	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
8	TF4212	1	RELIEF VALVE, 200 PSI
9	TB1017K	1	RELIEF VALVE, 2150 PSI
10	TB1017J	1	RELIEF VALVE, 1800 PSI
11	06502089	1	RELIEF VALVE, 2400 PSI
12	22588	1	RELIEF VALVE, 500 PSI
13	06502085	1	RELIEF VALVE, 3000 PSI
14	06502085	1	RELIEF VALVE, 3000 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017F	1	RELIEF VALVE, 1500 PSI
17	06502120	1	RELIEF VALVE, 2100 PSI
18	22588	1	RELIEF VALVE, 500PSI
19	TB1017A	5	VALVE SEAL KIT (FOR ONE SECTION)
19A		2	WIPER
19B		2	O-RING SMALL
19C		1	O-RING LARGE
19D		1	SPRING
19E		1	PUCKET
20	TB1017L	5	LEVER KIT (FOR ONE SECTION)
20A		1	LEVER KNOB
20B		1	LEVER
20C		2	LEVER WASHER
20D		1	LEVER CLIP
20E		2	LINKAGE
20F		1	LEVER PIN
20G		1	ROLL PIN
20H		1	LEVER BOOT
20J		1	LEVER BOLT
20K		1	LEVER DUST COVER
20L		1	LEVER NUT
21	TB1017V	1	TIE ROD KIT
22	24214	1	O-RING, LARGE
23	TB1017M	1	PLUG, RELIEF PORT



### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06502149	1	INLET END COVER
2	06502150	1	END COVER, OPEN CENTER
3	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TF3009	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
6	TB1017Q	1	VALVE SECTION (DOUBLE ACTING, SPRING METERED)
7	TF4212	1	RELIEF VALVE, 200 PSI
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	06502089	1	RELIEF VALVE, 2400 PSI
11	06502085	1	RELIEF VALVE, 3000 PSI
12	06502085	1	RELIEF VALVE, 3000 PSI
13	TB1017F	1	RELIEF VALVE, 1500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	06502120	1	RELIEF VALVE, 2100 PSI
16	TB1017A	4	VALVE SEAL KIT (FOR ONE SECTION)
16A		2	WIPER
16B		2	O-RING SMALL
16C		1	O-RING LARGE
16D		1	SPRING
16E		1	PUCKET
17	TB1017L	4	LEVER KIT (FOR ONE SECTION)
17A		1	LEVER KNOB
17B		1	LEVER
17C		2	LEVER WASHER
17D		1	LEVER CLIP
17E		2	LINKAGE
17F		1	LEVER PIN
17G		1	ROLL PIN
17H		1	LEVER BOOT
17J		1	LEVER BOLT
17K		1	LEVER DUST COVER
17L		1	LEVER NUT
18	TB1017U	1	TIE ROD KIT
19	24214	1	O-RING, LARGE
20	TB1017M	1	PLUG, RELIEF PORT

### **CABLE (MANUAL) LIFT VALVE MOUNT - 4 SPOOL**

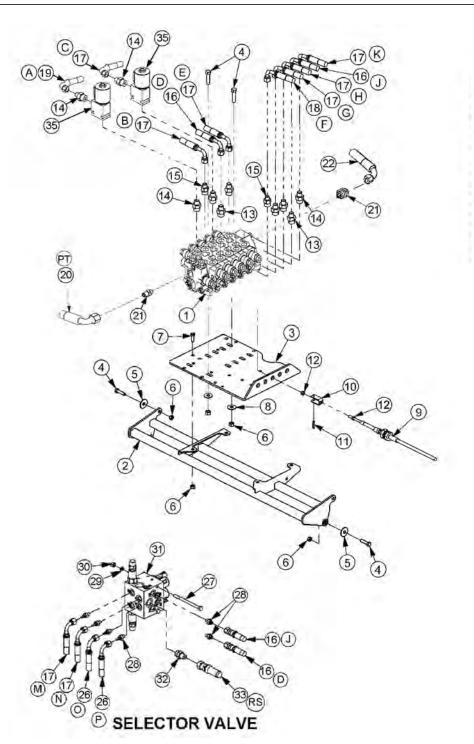


ITEM	PART NO.	QTY.	DESCRIPTION
1	06502192	1	VALVE, 4SP, OC
2	06340033	1	VALVE MNT
3	34622	1	PLATE, VALVE, REAR MNT
4	21632	8	CAPSCREW,3/8" X 1-1/2",NC
5	6T2615	4	WASHER,FENDER,3/8"

## CABLE (MANUAL) LIFT VALVE MOUNT - 4 SPOOL

ITEM	PART NO.	QTY.	DESCRIPTION
6	21627	12	NYLOCK NUT,3/8",NC
7	21630	4	CAPSCREW,3/8" X 1",NC
8	22016	4	FLATWASHER,3/8"
9	06505100	5	CBL,CNTRL,108"
10	6T4411	5	CLEVIS,CBL CTRL,3/16"
11	6T3017	5	ROLLPIN,3/16" X 1"
12	21500	10	HEX NUT,1/4",NF
13	34396	2	ADAPTER,.06"RSTRCTR,1/2"MOR X 3/8"MJ
14	33271	4	ADAPTER,1/2"MOR X 3/8"MJ
15	06502036	2	VLV,CHECK,W/.06"MOR X 1/2"MOR X 3/8"
16	33364	2	HOSE,1/4" X 120"
17	34358	4	HOSE,1/4" X 196"
18	33562	1	HOSE,1/4" X 130"
19	06500164	1	HOSE,1/4" X 216"
20	06500811	2	HOSE, 3/4" X 182"
21	06503023	2	ADAPTER, 3/4" ORB X 3/4" MJ
22	06500496	1	HOSE, 3/4" X 50"
23	33745	1	HOSE,1/4" X 100"
24	06503029	-	TEE,RUN,1/2"MOR X 3/8"MJ X 3/8"MJ
25	24300	1	ACCUMULATOR
26	33364	2	HOSE, 1/4" X 120"
27	21593	1	CAPSCREW, 5/16" X 4-1/2", NC
28	32901	6	ADAPTER, 3/8" MOR X 3/8" MJ
29	21987	1	LOCKWASHER, 5/16"
30	21525	1	HEX NUT,5/16",NC
31	06502055	1	VLV, SELECTOR
32	33528	1	ADAPTER, 1/2" MB X 1/2" MJ
33	30009	1	RUN TEE, 3/4" FJ X 3/4" MJ X 3/4" MJ
34	06500461	1	HOSE, 3/4" X 48"
35	06510050	2	TRVL LCK, METRIPACK COIL

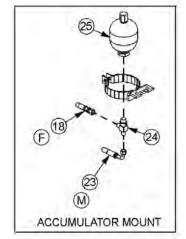
### **CABLE (MANUAL) LIFT VALVE MOUNT - 5 SPOOL**



CAPSCREW,3/8" X 1-1/2",NC

#### HOSE ROUTING

- A TO MAIN BOOM CYLINDER BUTT
- TO SECONDARY CYLINDER GLAND
- TO DECK ROLL CYLINDER GLAND
- D TO "B" PORT ON SELECTOR VALVE
- E TO SHIELD CYLINDER BUTT
- TO ACCUMULATOR
- G TO SECONDARY CYLINDER BUTT
- H TO DECK ROLL CYLINDER BUTT
- J TO "A" PORT OF SELECTOR VALVE K TO SHIELD CYLINDER GLAND
- L TO MAIN BOOM CYLINDER GLAND
- M TO KNUCKLE CYLINDER GLAND
- TO KNUCKLE CYLINDER BUTT TO SWIVEL CYLINDER BUTT
- P TO SWIVEL CYLINDER GLAND
- PT PRESSURE TO TRACTOR
- RT RETURN TO TRACTOR
- RS RETURN FROM SELECTOR VALVE



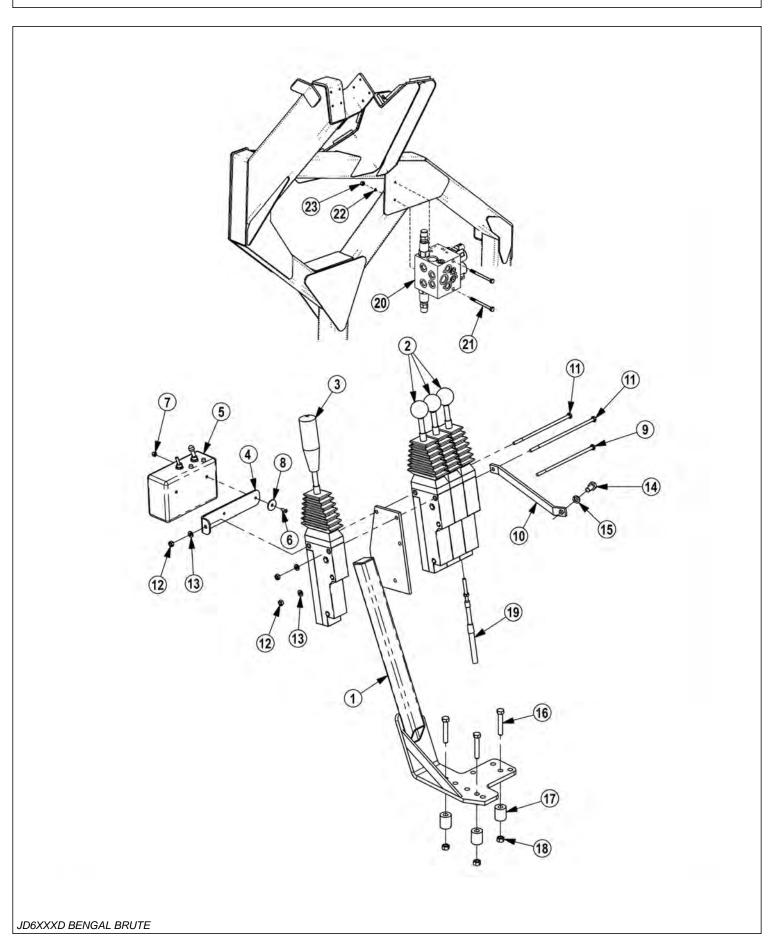
1	06502182	1	VALVE,5SP, OC
2	06340033	1	VALVE MNT
3	34622	1	PLATE, VALVE, REAR MNT

JD6XXXD BENGAL BRUTE

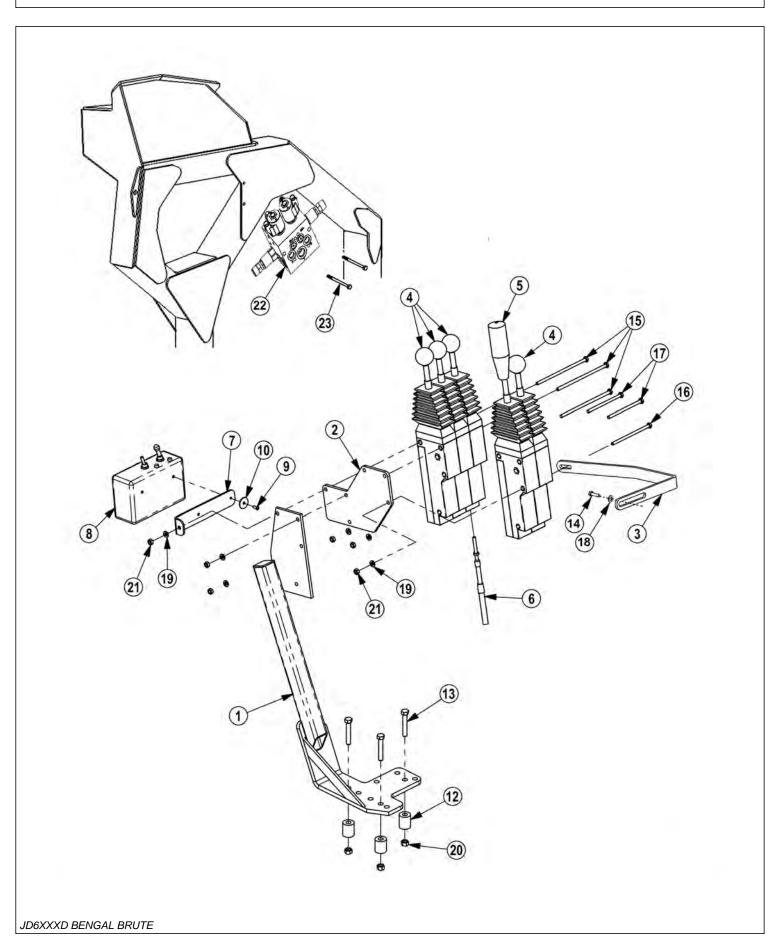
21632

## CABLE (MANUAL) LIFT VALVE MOUNT - 5 SPOOL

ITEM	PART NO.	QTY.	DESCRIPTION
5	6T2615	4	WASHER,FENDER,3/8"
6	21627	12	NYLOCK NUT,3/8",NC
7	21630	4	CAPSCREW,3/8" X 1",NC
8	22016	4	FLATWASHER,3/8"
9	06505100	5	CBL,CNTRL,108"
10	6T4411	5	CLEVIS,CBL CTRL,3/16"
11	6T3017	5	ROLLPIN,3/16" X 1"
12	21500	10	HEX NUT,1/4",NF
13	34396	2	ADAPTER,.06"RSTRCTR,1/2"MOR X 3/8"MJ
14	33271	6	ADAPTER,1/2"MOR X 3/8"MJ
15	06502036	2	VLV,CHECK,W/.06"MOR X 1/2"MOR X 3/8"
16	33364	2	HOSE,1/4" X 120"
17	34358	6	HOSE,1/4" X 196"
18	33562	1	HOSE,1/4" X 130"
19	06500164	1	HOSE,1/4" X 216"
20	06500811	2	HOSE, 3/4" X 182"
21	06503023	2	ADAPTER, 3/4" ORB X 3/4" MJ
22	06500496	1	HOSE, 3/4" X 50"
23	33745	1	HOSE,1/4" X 100"
24	06503029	-	TEE,RUN,1/2"MOR X 3/8"MJ X 3/8"MJ
25	24300	1	ACCUMULATOR
26	33364	2	HOSE, 1/4" X 120"
27	21593	1	CAPSCREW, 5/16" X 4-1/2", NC
28	32901	6	ADAPTER, 3/8" MOR X 3/8" MJ
29	21987	1	LOCKWASHER, 5/16"
30	21525	1	HEX NUT,5/16",NC
31	06502055	1	VLV, SELECTOR
32	33528	1	ADAPTER, 1/2" MB X 1/2" MJ
33	30009	1	RUN TEE, 3/4" FJ X 3/4" MJ X 3/4" MJ
34	06500461	1	HOSE, 3/4" X 48"
35	06510050	2	TRVL LCK, METRIPACK COIL

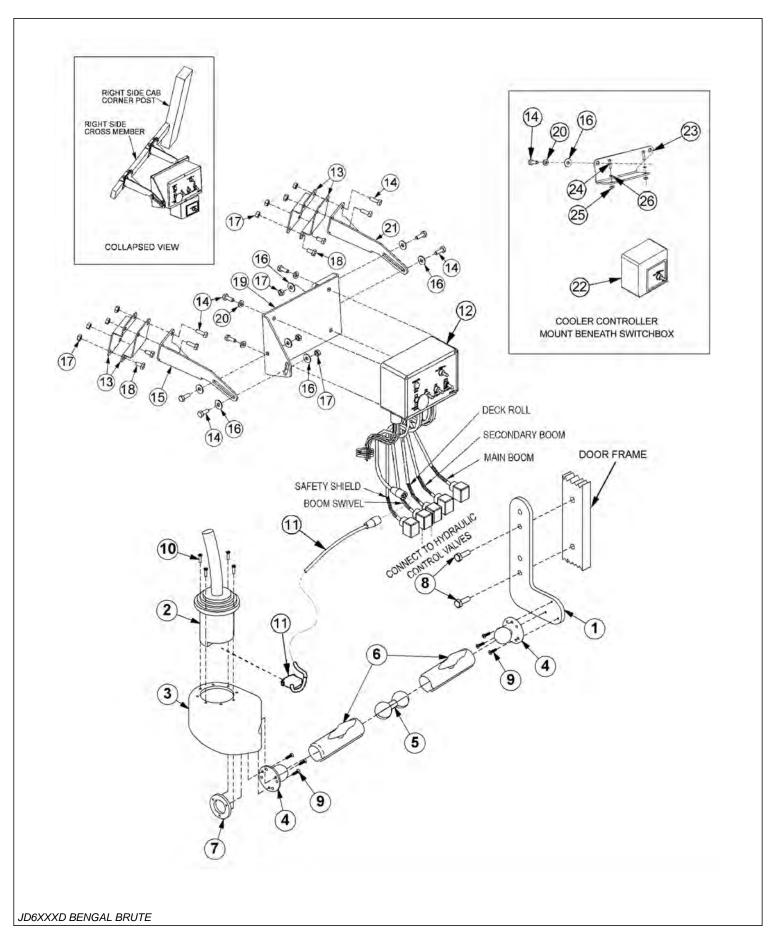


ITEM	PART NO.	QTY.	DESCRIPTION
1	23865B	1	CBL CTRL MT BRK
2	6T1251	3	CBL CTRL BOX,180 DEG
3	06505023	1	CBL CTRL BOX,180 DEG,W/BUTTON
4	34496	1	BRKT,SWITCHBOX,UNI
5	06510049	1	SWITCHBOX ASSY,BOOM,RS
6	6T3951	2	SCREW,MACHINE,8/32" X 1/2"
7	6T3952	2	HEX NUT,8/32",NYLOCK
8	34508	2	WASHER,FENDER,#10
9	21546	1	CAPSCREW,1/4" X 7",NC
10	30750A	1	BRKT,CBL CTRL
11	21547	2	CAPSCREW,1/4" X 8",NC
12	21525	3	HEX NUT,1/4",NC
13	21986	3	LOCKWASHER,1/4"
14	33534	1	CAPSCREW,10MM X 20MM,1.5PITCH
15	32691	1	LOCKWASHER,10MM
16	21635	3	CAPSCREW,3/8" X 2-1/4",NC
17	27082B	3	SPACER
18	21627	3	NYLOCK NUT,3/8",NC
19	34623	4	CBL,CNTRL,122
20	06502055	1	VLV,SELECTOR,RS
21	21593	2	CAPSCREW,5/16" X 4-1/2",NC
22	21987	2	LOCKWASHER,5/16"
23	21575	2	HEX NUT,5/16",NC



ITEM	PART NO.	QTY.	DESCRIPTION
1	23865B	1	CABLE CONTROL MOUNTING BRACKET
2	06400179	1	MOUNT,ADAPTER,CONTROL BOX
3	06411882	1	BRACKET,STABILIZER
4	6T1251	4	CABLE CONTROL BOX
5	06505023	1	CABLE CONTROL BOX W/ BUTTON
6	06505100	5	CONTROL CABLE,108"
7	34496	1	BRACKET,SWITCH BOX,UNIV
8	06510049	1	SWITCH BOX,LRS
9	6T3951	2	SCREW,MACHINE
10	34508	2	WASHER,FENDER,#10
12	27082	3	SPACER
13	21635	3	CAPSCREW,3/8" X 2-1/4",NC
14	33534	1	CAPSCREW,10MM X 20MM,1.5P
15	21545	3	CAPSCREW,1/4" X 6",NC
16	21543	1	CAPSCREW,1/4" X 4-1/2",NC
17	21542	2	CAPSCREW,1/4" X 4",NC
18	32691	1	LOCKWASHER,10MM
19	21986	6	LOCKWASHER,1/4"
20	21627	3	NYLOCK NUT,3/8",NC
21	21525	6	HEX NUT,1/4",NC
22	06502055	1	VALVE SELECTOR
23	21593	2	CAPSCREW,5/16" X 4-1/2",NC
24	21987	2	LOCKWASHER,5/16"
25	21575	2	HEX NUT,5/16",NC

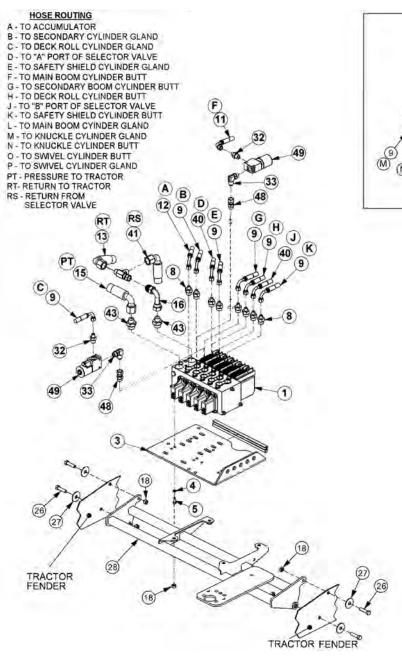
#### **JOYSTICK AND SWITCHBOX MOUNT**

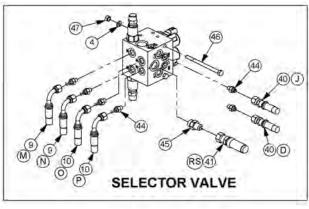


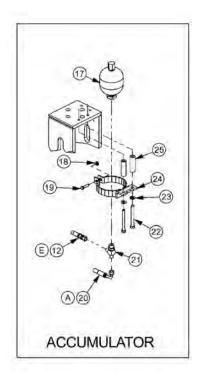
### **JOYSTICK AND SWITCHBOX MOUNT**

ITEM	PART NO.	QTY.	DESCRIPTION
1	06340031	1	MT,BRKT,JYSTK
2	33691	1	JOYSTICK
3	06770022	1	CAN,JOYSTICK
4	06520019	2	MOUNT,RAM BALL,1-1/2",FLANGE
5	06520290	1	MOUNT,RAM,BALL,DBL,1-1/2"
6	06520020	2	MOUNT,RAM,ARM,1-1/2" X 4-5/8",STD
7	06400882	1	RING,BOLT,MNT,JYSTK
8	23113	2	CAPSCREW,10MM X 30MM,1.5P
9	32990	6	SCREW,MACHINE,10-32 X 1/2",RD HD
10	32829	4	SCREW,MACHINE,10-32 X 3/4",FLT HD
11	33693	1	CBL,EXT,4FT
12	06510196	1	SWITCH BOX,DF,BOOM
13	06411086	4	BRKT,MNT
14	21529	10	CAPSCREW,1/4" X 3/4",NC
15	06411087	1	BRKT,STABILIZING,LT
16	22014	10	FLATWASHER,1/4"
17	21527	12	NYLOCK NUT,1/4",NC
18	21528	4	CAPSCREW,1/4" X 1/2",NC
19	06411116	1	BRKT,MNT,SWITCH BOX
20	21986	6	LOCKWASHER,1/4"
21	06411378	1	BRKT,STABILIZING,RT
22	06510045	1	CONTROLLER, COOLER FAN
23	06411407	1	BRACKET, CONTROLLER
24	32359	2	SCREW, MACHINE, 8-32 X 3/4"
25	32360	2	LOCKWASHER, #8
26	32361	2	HEX NUT, #8 (INSIDE BOX)

#### JOYSTICK LIFT VALVE MOUNT





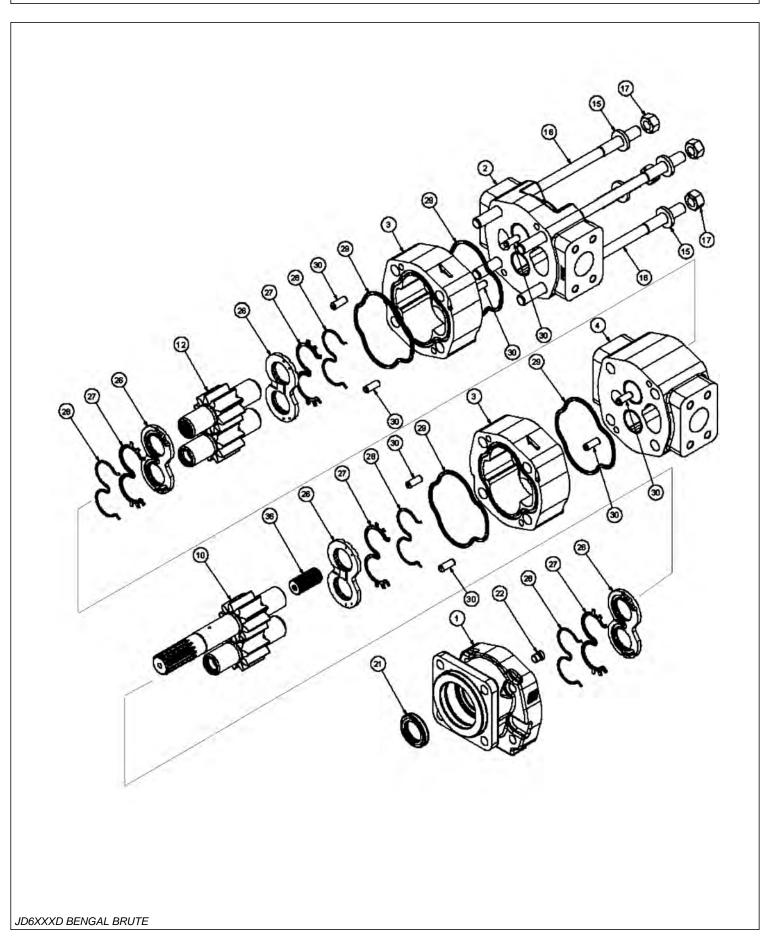


I	TEM	PART NO.	QTY.	DESCRIPTION
1		06502097	1	ELECTRONIC VALVE
2	2	21630	4	CAPSCREW,3/8" X 1",NC
3	3	34622	1	PLATE, VALVE, REAR MNT
4	ļ	21987	5	LOCKWASHER,5/16"
5	i	21579	4	CAPSCREW,5/16" X 3/4",NC
8	3	32807	10	ADAPTER,5/8"MB X 3/8"MJ
9	)	34358	8	HOSE,1/4" X 196"
1	.0	33364	2	HOSE,1/4" X 120"

### **JOYSTICK LIFT VALVE MOUNT**

ITEM	PART NO.	QTY.	DESCRIPTION
11	06500164	1	HOSE,1/4" X 216"
12	33562	1	HOSE,1/4" X 130"
13	06500496	1	HOSE,3/4" X 50"
15	06500811	1	HOSE, 3/4" X 182"
16	06503199	1	ELBOW,3/4"MJ X 3/4" FJX
17	24300	2	ACCUMULATOR
18	21627	9	NYLOCK NUT,3/8",NC
19		-	CAPSCREW *REFER TO BOOM MNT KIT PAGE
20	33745	1	HOSE,1/4" X 100"
21	06503029	1	TEE,RUN,1/2"MB X 3/8"MJ X 3/8"MJ
22		-	CAPSCREW *REFER TO BOOM MNT KIT PAGE
23		-	LOCKWASHER *REFER TO BOOM MNT KIT PAGE
24		-	BRKT *REFER TO BOOM MNT KIT PAGE
25		-	SPACER *REFER TO BOOM MNT KIT PAGE
26	21632	4	CAPSCREW,3/8" X 1-1/2",NC
27	6T2615	4	WASHER,FENDER,3/8"
28	06340033	1	VALVE MOUNT
29	22015	1	FLATWASHER,5/16"
30	21577	1	NYLOCK NUT,5/16",NC
32	33271	2	ADAPTER, 1/2" MOR X 3/8" MJ
33	33382	2	ELBOW, 1/2" MB X 1/2" MJ
40	33411	2	HOSE, 1/2" X 24"
41	06500461	1	HOSE, 3/4" X 48"
42	30009	1	TEE, 3/4" FJ X 3/4" MJ X 3/4" MJ
43	06503023	2	ADAPTER, 3/4" MB X 3/4" MJ
44	32901	6	ADAPTER, 3/8"MOR X 3/8" MJ
45	33528	1	ADAPTER, 1/2" MOR X 1/2" MJ
46	21593	1	CAPSCREW, 5/16" X 4-1/2" NC
47	21575	1	HEX NUT 5/16" NC
48	06503041	2	ADAPTER, 5/8"ORB X 1/2" FJX
49	06510050	2	TRAVEL LOCK

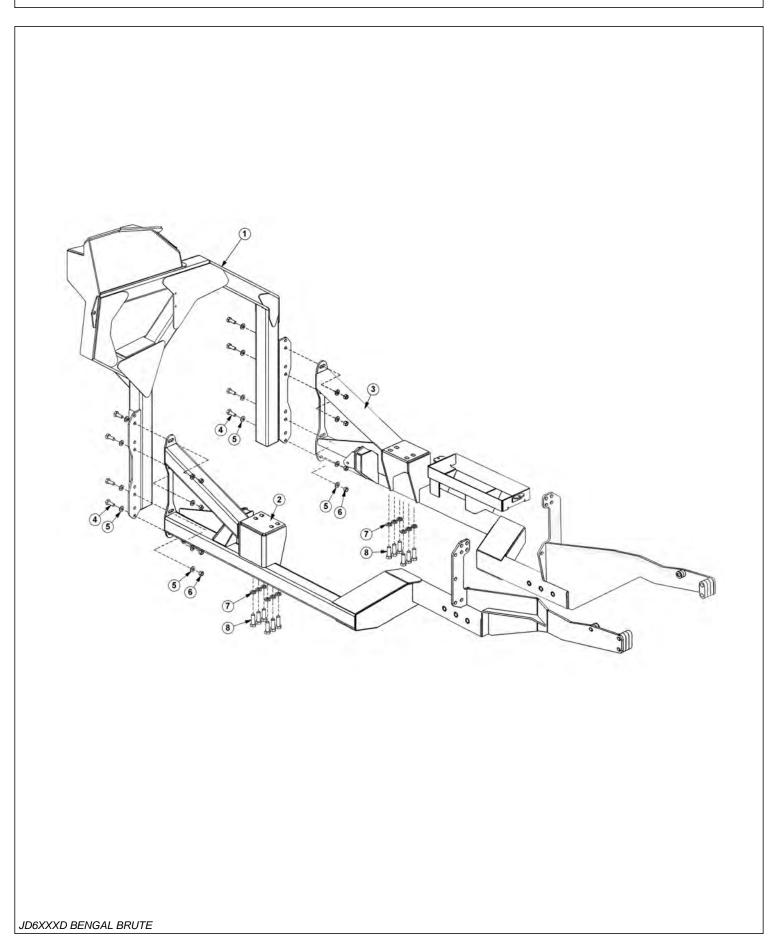
### **REAR HYDRAULIC PUMP 06504131**



### **REAR HYDRAULIC PUMP 06504131**

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504133	1	HOUSING,SEC
2	06504082	1	HOUSING,PEC
3	06504134	2	HOUSING,GEAR
4	06504135	1	HOUSING,BEARING CARRIER
10	06504136	1	SET,GEARSHAFT
12	06504137	1	GEAR,SET
15	02961917	4	WASHER
16	06504138	4	STUD
17	22782	4	NUT,HEX
21	22765	1	SEAL,LIP
22	02961920	1	PLUG
26	02987939	4	THRPL
27	02987941	4	SEAL,CHAN
28	02987940	4	SEAL,BK-UP
29	02987942	4	SEAL,SQ-R
30	02979953	8	PIN,DOWEL
36	06504079	1	SFT,CONN
	22764	1	SEAL KIT (ITEMS 21, 27, 28 & 29)

### **BOOMREST AND AXLE BRACES**

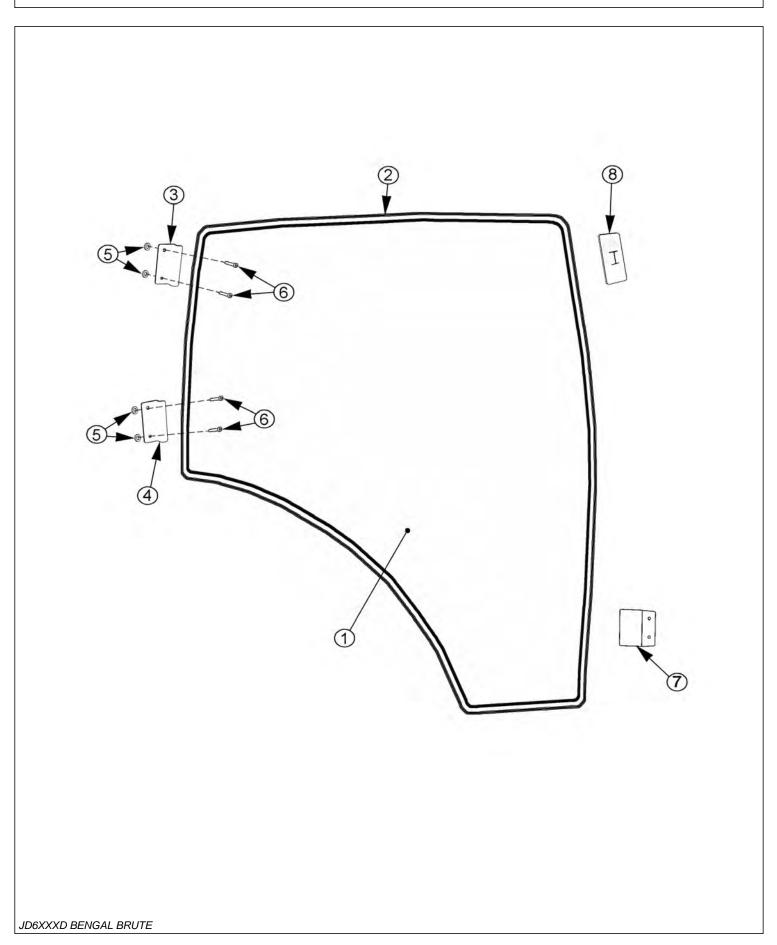


### **BOOMREST AND AXLE BRACES**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06310156	1	BOOMREST,LRS
2	06300238	1	AXLE BRACE,RH
3	06300239	1	AXLE BRACE,LH
4	21782	8	CAPSCREW,5/8" X 1-3/4",NC
5	33764	16	FLATWASHER,5/8",SAE
6	21775	8	HEX NUT,5/8",NC
7	24881	12	LOCKWASHER,20MM
8	27281	12	CAPSCREW,20MM X 60MM,2.5P

### PANORAMIC POLYCARBONATE SAFETY WINDOW

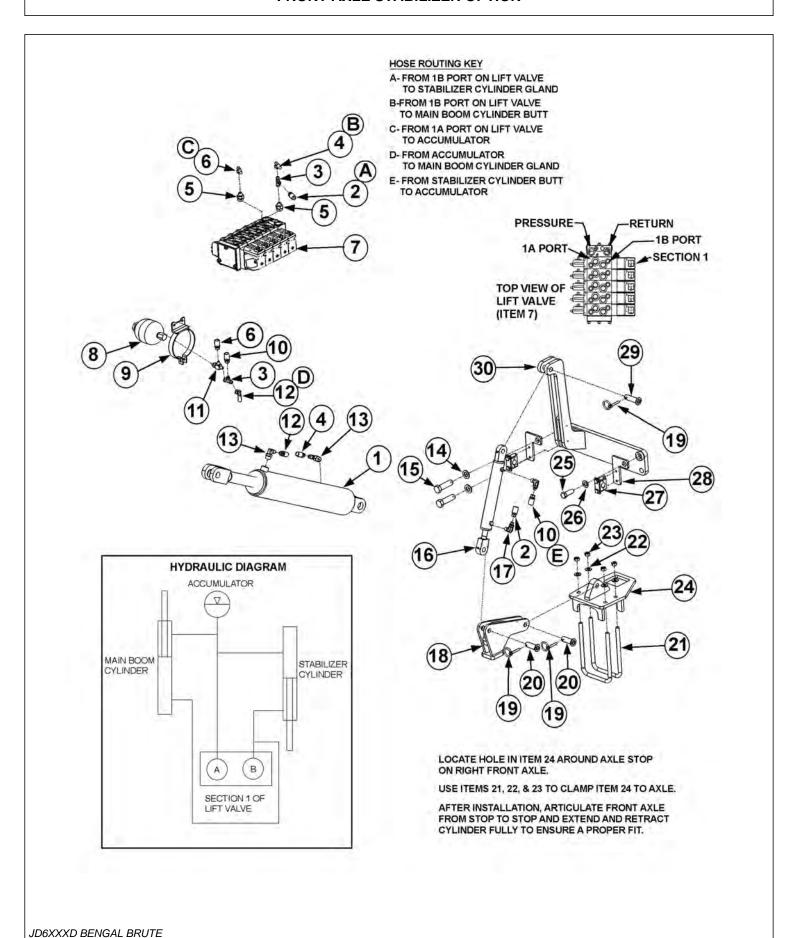


## PANORAMIC POLYCARBONATE SAFETY WINDOW

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06490005	1	POLYCARB,FRMD,DOOR,RH
2	31965	22	TRIM SEAL,3/8" CLIP X 3/4"OD (FEET)
	06537005	1	ADHESIVE *NOT SHOWN
3	06330042	1	BRKT,SFTY SCRN,UPPER
4	06330041	1	BRKT,SFTY SCRN,LOWER
5	06402170	4	SPACER,1" X 5/8" X 3/16"
6	19M7561	4	SCREW *EXISTING
7	L209050	1	BRACKET *EXISTING
8	L209049	1	BRACKET *EXISTING

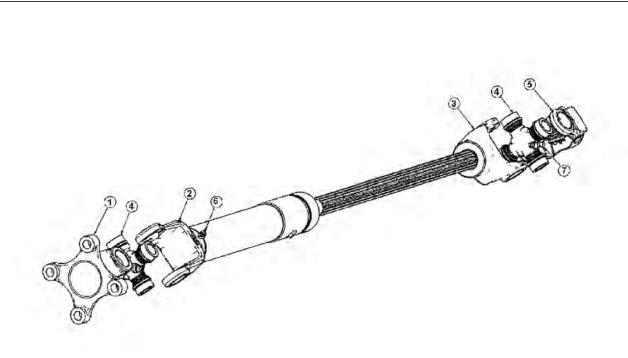
#### FRONT AXLE STABILIZER OPTION



### FRONT AXLE STABILIZER OPTION

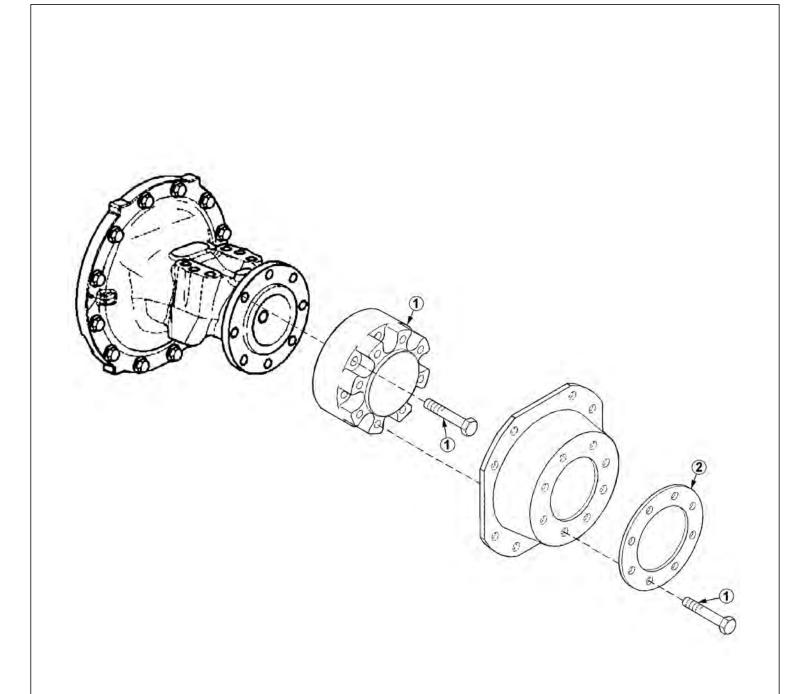
ITEM	PART NO.	QTY.	DESCRIPTION	
1		-	BOOM CYLINDER *REFER TO COMMON SECTION	
2	06500149	1	HOSE,1/4" X 220"	
3	06503048	2	RUN TEE,3/8"MJ X 3/8"FJX X 3/8"MJ	
4		-	HOSE *REFER TO LIFT VALVE PAGE	
5		-	ADAPTER *REFER TO LIFT VALVE PAGE	
6		-	HOSE *REFER TO LIFT VALVE PAGE	
7		-	LIFT VALVE *REFER TO LIFT VALVE PAGE	
8		-	ACCUMULATOR *REFER TO LIFT VALVE PAGE	
9		-	ACCUMULATOR BRKT *REFER TO LIFT VALVE PAGE	
10	06500149	1	HOSE,1/4" X 220"	
11		-	RUN TEE *REFER TO LIFT VALVE PAGE	
12		-	HOSE *REFER TO LIFT VALVE PAGE	
13		-	ELBOW *REFER TO LIFT VALVE PAGE	
14	33880	2	FLATWASHER,3/4",SAE	
15	32703	2	CAPSCREW,20MM X 100MM,2.5P	
16	33785	1	CYLINDER,1-1/2" X 8"	
17	06503055	2	ELBOW,1/4"MOR X 3/8"MJ	
18	06310132	1	LINK,PIVOT,STABILIZER	
19	RD1032	3	LYNCH PIN	
20	33984	2	PIN,3/4" X 2-7/16"	
21	06420140	2	U-BOLT	
22	06533004	4	FLATWASHER,1/2",SAE	
23	21700	4	HEX NUT,1/2",UNC	
24	06310176	1	MOUNT,AXLE	
25		-	CAPSCREW *REFER TO LIFT VALVE PAGE	
26		-	FLATWASHER *REFER TO LIFT VALVE PAGE	
27		-	CLAMP KIT *REFER TO LIFT VALVE PAGE	
28		-	BRACKET *REFER TO LIFT VALVE PAGE	
29	34799	1	PIN,3/4" X 2-15/16"	
30	06310177	1	STABILIZER,AXLE,CYL MNT	

### **PUMP DRIVESHAFT BREAKDOWN**



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

### WHEEL SPACER

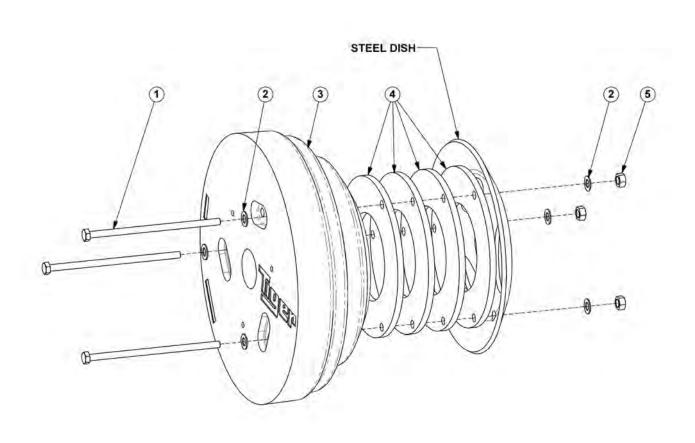


 ITEM
 PART NO.
 QTY.
 DESCRIPTION

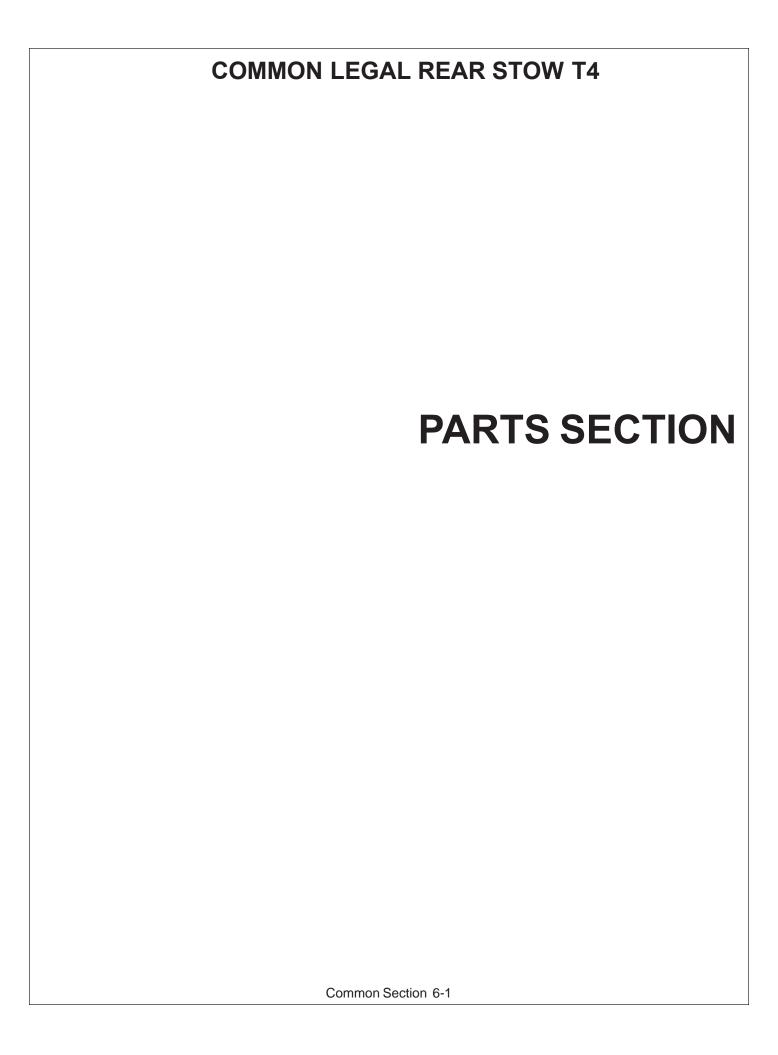
 1
 06770025
 1
 KIT,SPCR,WHL,JD

 2
 06400919
 1
 RING,SPACER,WHEEL,JD

### **WHEEL WEIGHT**



ITEM	PART NO.	QTY.	DESCRIPTION
1	06530213	3	CAPSCREW,7/8" X 16",NC,GR8
2	06533000	6	FLATWASHER,7/8",GR8
3	32615	1	WHEEL WEIGHT,1700#
4	06400410	4	SPACER
5	06531000	3	HEX NUT,7/8",NC,GR8



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50IN ROTARY MOWER ASSEMBLY	18
50IN ROTARY KNIVES AND DISH	20
50IN ROTARY BLADE BAR AND KNIVES	21
60IN ROTARY KNIVES AND DISH	22
60IN ROTARY BLADE BAR AND KNIVES	23
50IN FLAIL DRIVE ASSEMBLY	24
50IN FLAIL MOWER ASSEMBLY	26
50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES	28
63IN FLAIL DRIVE ASSEMBLY	30
63IN FLAIL MOWER ASSEMBLY	32
3 IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN	34
3IN X 18IN WELDED CYLINDER BREAKDOWN	35
3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN	36
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COMMON LEGAL REAR STOW T4

# PART NAME INDEX

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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.

- The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
- The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.
- The purchase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.
  - 4. The manufacturer reserves the right to substitute parts where applicable.
- Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.
  - 6. The manufacturer reserves the right to change prices without prior notice.

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

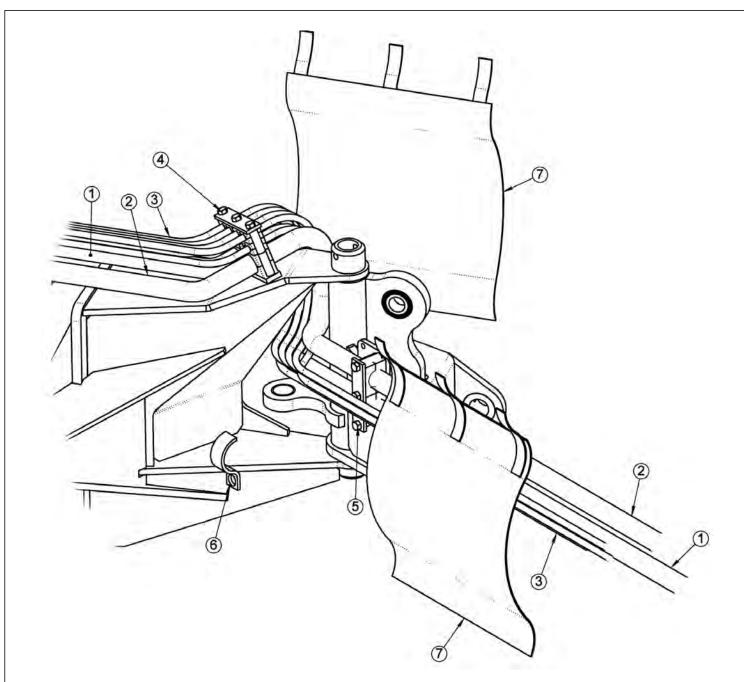


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

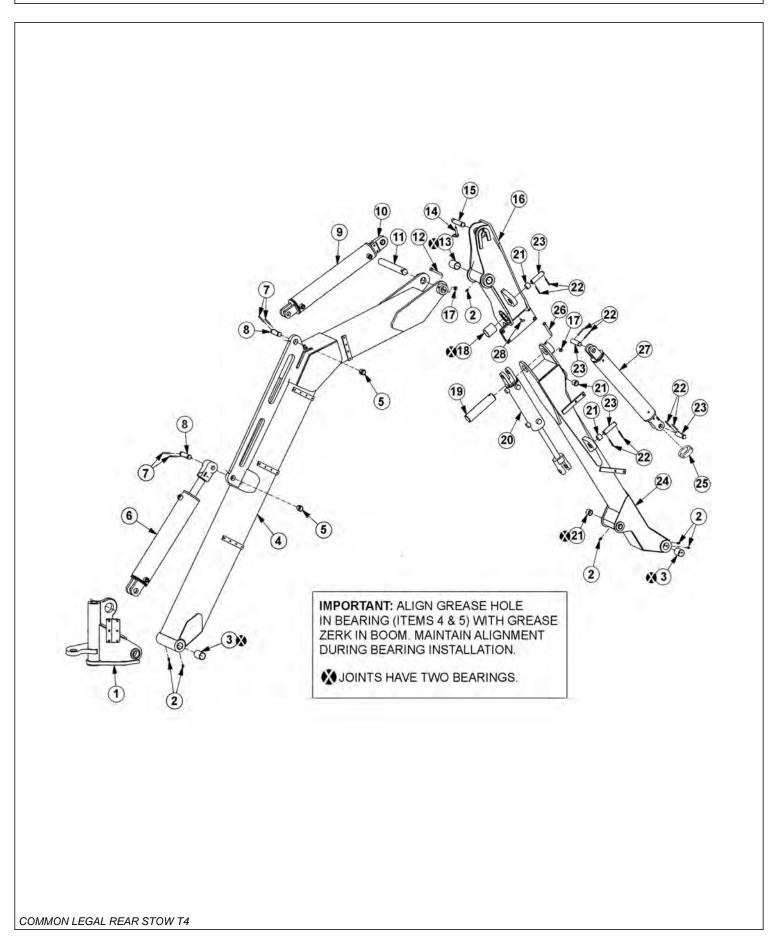
Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

# **BENGAL BRUTE HOSE ROUTING**



ITEM	PART NO.	QTY.	DESCRIPTION
1		1	1" HOSE TO MAIN BOOM LOWER TUBE
2		1	1" HOSE TO MAIN BOOM UPPER TUBE
3		6	1/4" HOSE TO MAIN BOOM
4	06505085	1	CLAMP KIT
5	35131	1	CLAMP KIT
6	TB3012	1	CLAMP
7	06505021	2	HOSE COVER

#### **BENGAL BRUTE BOOM ASSY T4**

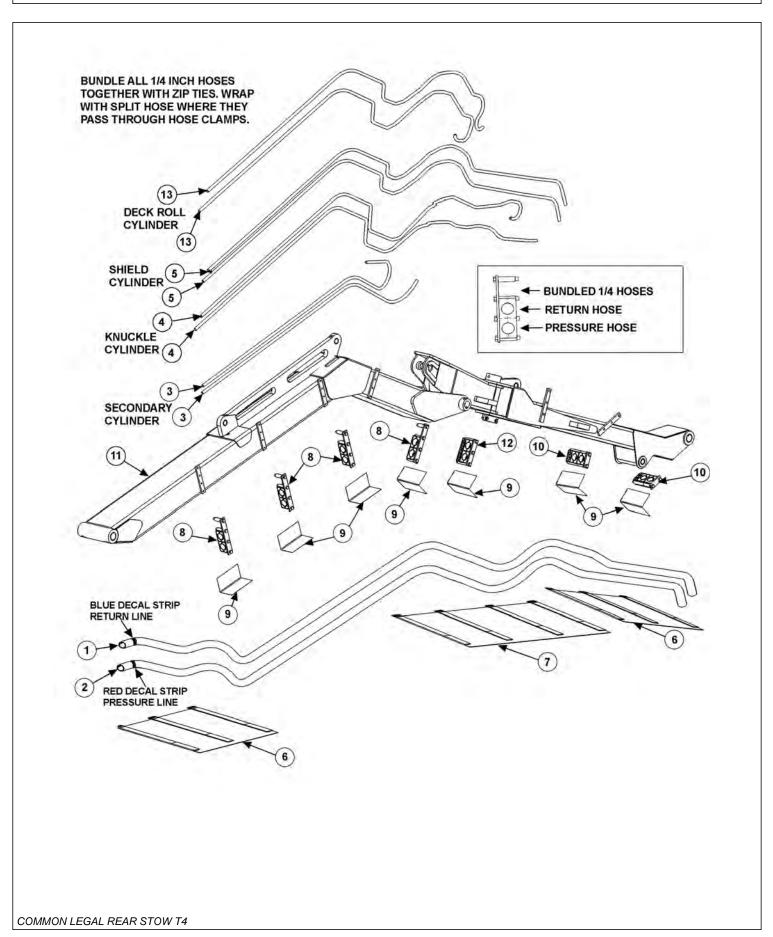


# **BENGAL BRUTE BOOM ASSY T4**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06700017	-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	6T3211	6	GREASE ZERK, 1/8" NPT
3	32321	4	BUSHING, 1-1/2ID X 2
4	06700189	1	MAIN BOOM ARM ASSY
5	TB1044	2	BUSHING, 1-1/4"ID
6	06501020	1	CYLINDER, 5 X 20
7	6T3014	2	ROLLPIN, 1/4 X 2
8	TB1045B	2	PIN, 1-1/4 X 3-3/8
9	06501022	1	CYLINDER, 4 X 20
10	30172	1	CLEVIS W/SPHERICAL BEARING
11	06420015	1	PIN, 1-1/2 X 11-3/4
12	21688	2	CAPSCREW, 7/16 X 3-1/4, NC
13	06520411	2	BUSHING, 1-1/2ID X 2-1/2
14	TF1143	1	LYNCH PIN, 7/16 X 2
15	TB1036	1	PIN, 1 X 4-11/16
16	06700036	1	KNUCKLE BOOM ARM ASSY
17	21677	3	NYLOCK NUT, 7/16 NC
18	06520077	2	BUSHING, 2ID X 2-1/2
19	06420017	1	PIN, 1-3/4 X 8-9/16
20	06501021	1	CYLINDER, 3 X 10
21	06520076	4	BUSHING, 2ID X 1
22	TB1023	10	ROLLPIN, 7/32
23	06420014	4	PIN, 1 X 3-5/8
24	06700187	1	SECONDARY BOOM ARM ASSY
25	35312	1	SET COLLAR, 1.38ID (FOR ROTARY MOWERS)
	35312	2	SET COLLAR, 1.38ID (FOR FLAIL MOWERS)
26	21689	1	CAPSCREW, 7/16 X 3-1/2
27	06501023	1	CYLINDER, 3 X 18
28	6T3210	1	90° GREASE ZERK

#### **BENGAL BRUTE BOOM HOSES**

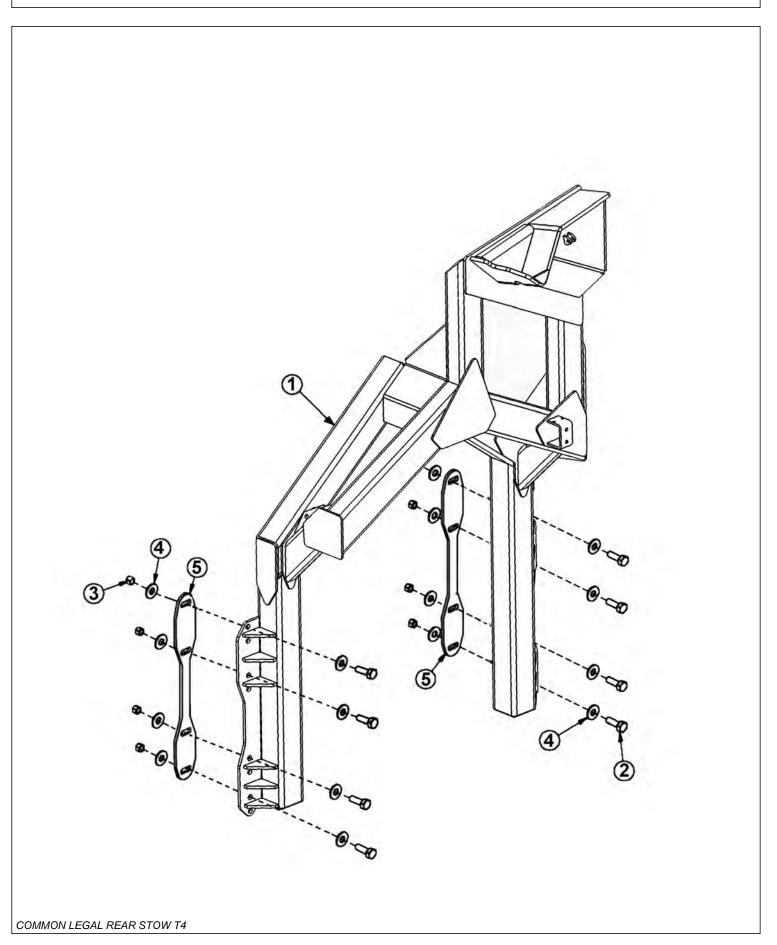


### **BENGAL BRUTE BOOM HOSES**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06500686	1	HOSE, #16X218" (RETURN)
2	06500685	1	HOSE, #16X226" (PRESSURE)
3	06500694	2	HOSE, #4X83"
4	06500709	4	HOSE, #4X142"
5	06500690	2	HOSE #4X155"
6	06505021	2	HOSE WRAP
7	06505022	1	HOSE WRAP
8	06505024	3	CLAMP KIT
9	6T3200	5	SPLIT HOSE
10	06505019	5	CLAMP KIT
11		-	LRS BOOM ASSY *REFER TO BOOM ASSY
12	06505116	1	CLAMP KIT
13	06500015	2	HOSE, #4 X 146"

# **BOOMREST**

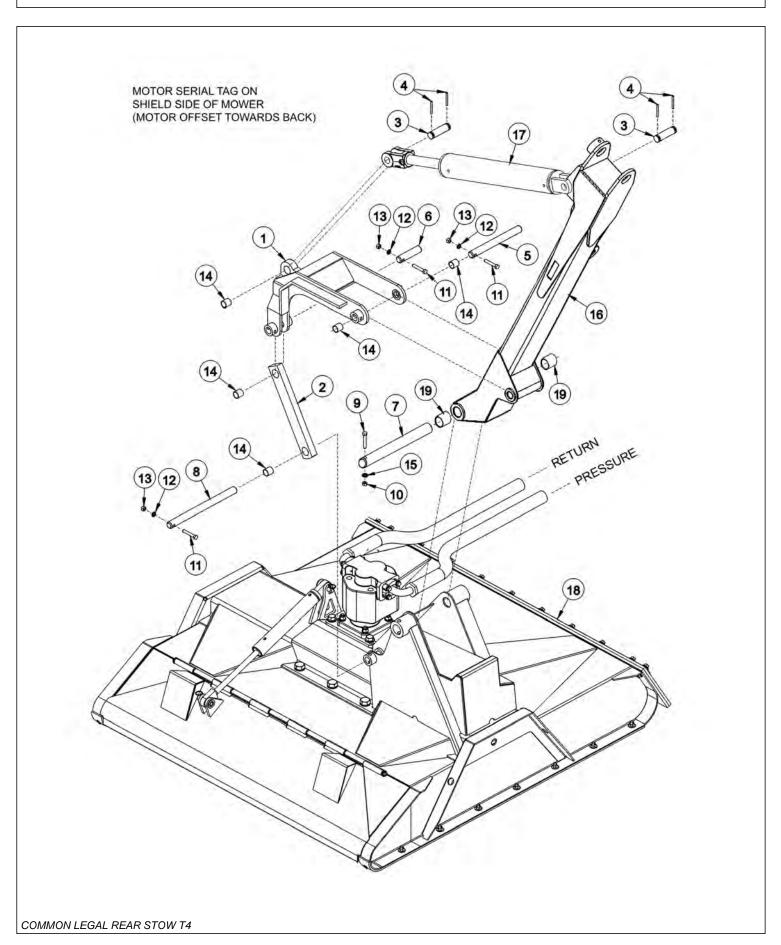


### **BOOMREST**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06310125	1	BOOMREST, LRS, CT
2	21782	8	CAPSCREW, 5/8" X 1-3/4" NC
3	21777	8	NYLOCK NUT, 5/8" NC, GR8
4	33764	16	FLATWASHER, 5/8", GR8 SAE
5		-	AXLE BRACE *REFER TO TRACTOR MOUNT KIT

#### **LEGAL REAR STOW RTRY PIVOT ASSY**

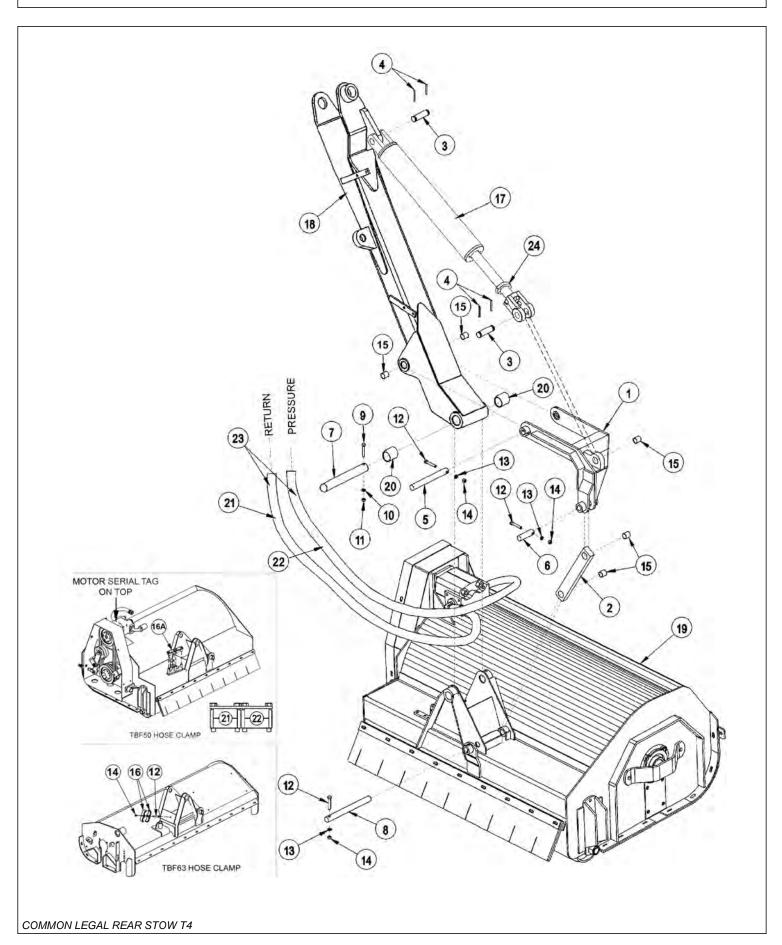


# **LEGAL REAR STOW RTRY PIVOT ASSY**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06700016	1	PIVOT ASSEMBLY
2	06700015	1	PIVOT ARM ASSEMBLY
3	06420014	2	PIN, CLEVIS
4	TB1023	4	ROLL PIN
5	06420019	1	PIN
6	06420020	1	PIN
7	06420016	1	PIN
8	06420021	1	PIN
9	21688	1	CAPSCREW 7/16" X 2-3/4", NC
10	21675	1	HEX NUT, 7/16", NC
11	21635	3	CAPSCREW 3/8" X 2 1/4"
12	21988	3	LOCKWASHER 3/8"
13	21625	3	HEX NUT 3/8"
14	06520076	5	BEARING, 1ID X 1
15	21989	1	LOCKWASHER 7/16"
16		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
17		-	CYLINDER *REFER TO BOOM ARM ASSY
18		-	ROTARY MOWER HEAD *REFER TO ROTARY DECK
19	06520411	2	BEARING, 1.50ID X 2.50

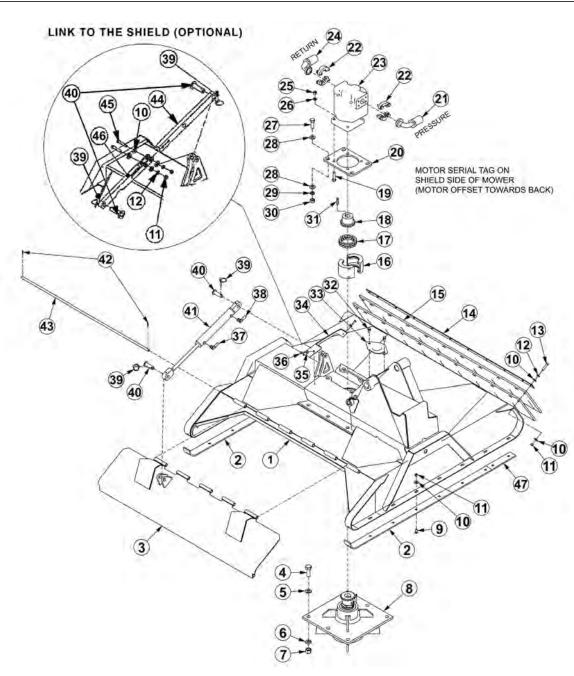
### **LEGAL REAR STOW FLAIL PIVOT ASSY**



# **LEGAL REAR STOW FLAIL PIVOT ASSY**

### Continued...

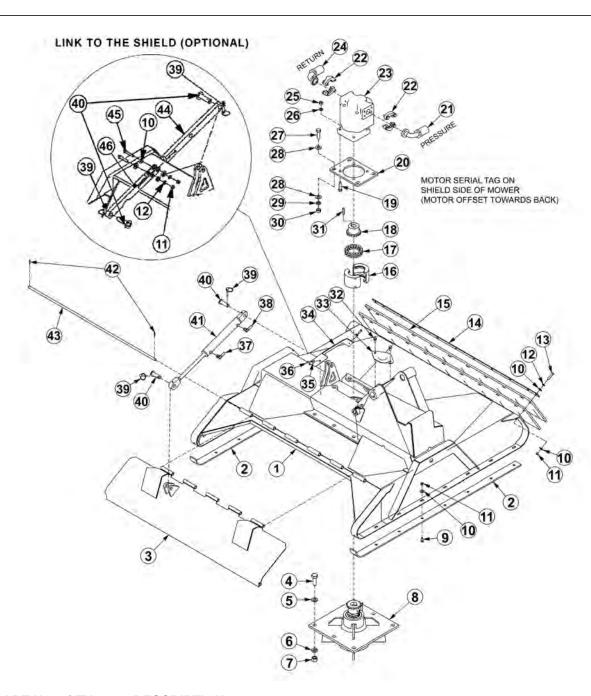
ITEM	PART NO.	QTY.	DESCRIPTION
1	06700029	1	PIVOT ASSEMBLY
2	06700201	1	PIVOT ARM ASSEMBLY
3	06420014	2	PIN CLEVIS
4	TB1023	4	ROLL PIN
5	06420019	1	PIN
6	06420020	1	PIN
7	06420018	1	PIN
8	06420021	1	PIN
9	21688	1	CAPSCREW 7/16" X 3 1/4"
10	21989	1	LOCKWASHER 7/16"
11	21675	1	HEX NUT 7/16"
12	21635	2	CAPSCREW 3/8" X 2 1/4"
13	21988	2	LOCKWASHER 3/8"
14	21625	2	HEX NUT 3/8"
15	06520076	5	BEARING, 1ID X 1
16	TB3031	1	DOUBLE HOSE CLAMP (USED ON THE 63" FLAIL)
16A	31723	1	CLAMP KIT, TBF 50 (USED ON THE 50" FLAIL)
17		-	CYLINDER - REFER TO BOOM ARM ASY
18		-	SECONDARY BOOM - REFER TO BOOM ARM ASY
19		-	FLAIL MOWER HEAD - REFER TO FLAIL CUTTER ASY
20	06520075	2	BEARING, 1.50ID X 2.50
21	06500158	1	HOSE, 1" X 145" (USED ON THE 50" FLAIL)
22	06500159	1	HOSE, 1" X 158" (USED ON THE 50" FLAIL)
23	06500159	2	HOSE, 1" X 158"(USED ON THE 63" FLAIL)
24	35312	2	SPLIT COLLAR (USED ON FLAILS ONLY)



ı				
	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

### Continued...

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

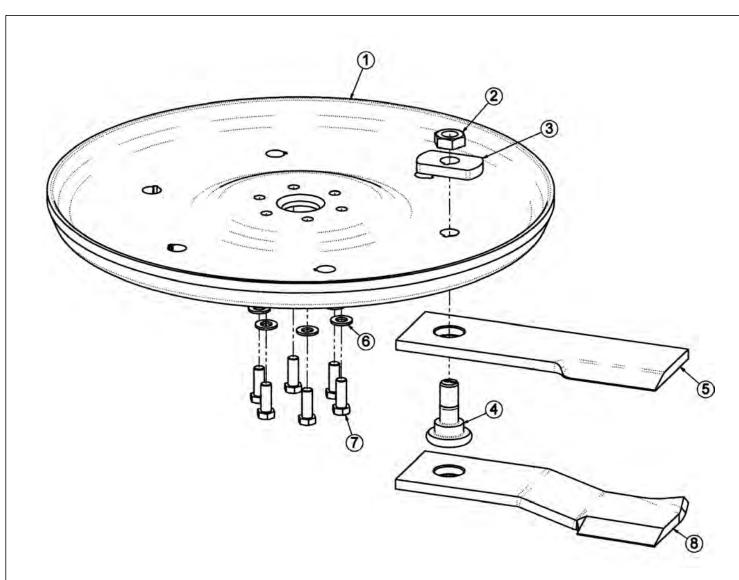


ITEM	PART NO.	QTY.	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33777	2	SKID SHOE,50" RTRY
3	33754	1	SHIELD,50"RTRY
4	33879	6	CAPSCREW, 3/4 X 2 1/4,NF GR 8
5	33880	6	FLATWASHER,3/4",GR 8,SAE
6	21993	6	LOCKWASHER,3/4",GR 8
7	6T2413	6	HEX NUT,3/4,NF,GR 8
8	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES

### Continued...

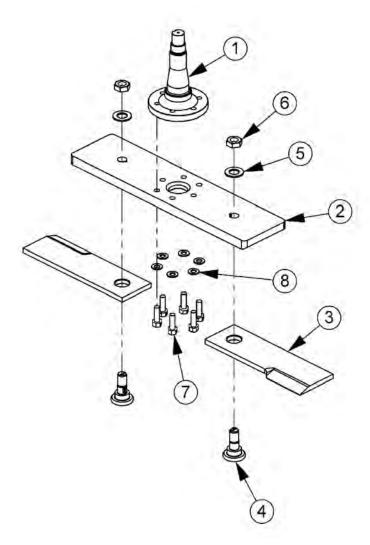
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	33774	1	FLAP RETAINER,50" RTRY
15	33775	2	FLAP,50" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18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

# **50IN ROTARY KNIVES AND DISH**



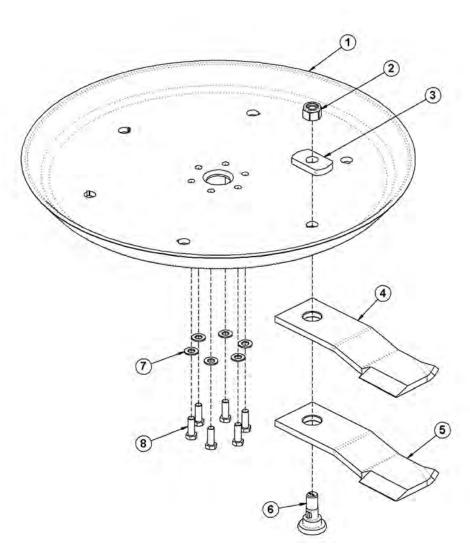
ITEM	PART NO.	QTY.	DESCRIPTION
	06700089	-	KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7)
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
	06770012	-	BOLT KIT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

# **50IN ROTARY BLADE BAR AND KNIVES**



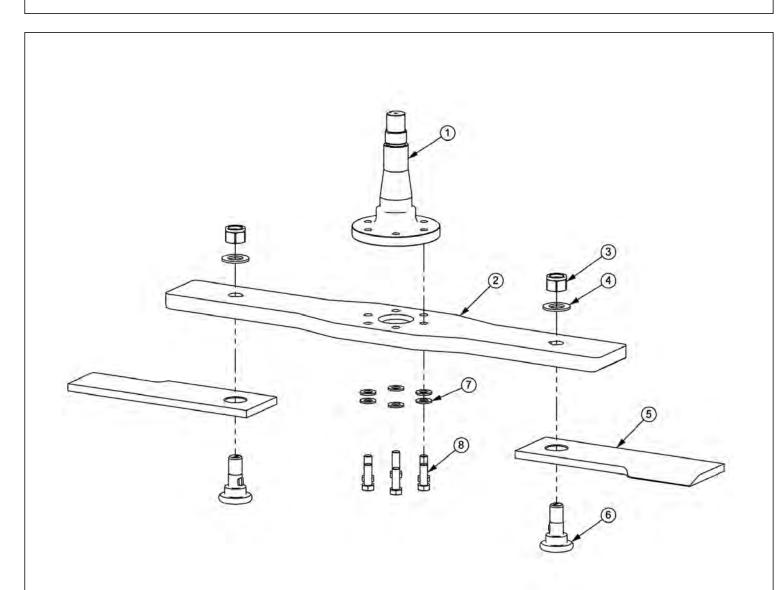
ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE,5/8HOLES,HD,WO/TABS
2	06400388	1	BAR,BLADE,TRB
3	06521001	2	KNIFE,TRB50,5/8
4	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
5	06533002	2	FLATWASHER,1 1/8,GR 8
6	6T1023R	2	KNIFE MTG NUT,1 1/8,NF,GR8
7	6T2259	6	CAPSCREW,5/8X1-3/4,NF,GR8
8	33764	6	FLATWASHER,5/8,GR 8,SAE

# **60IN ROTARY KNIVES AND DISH**



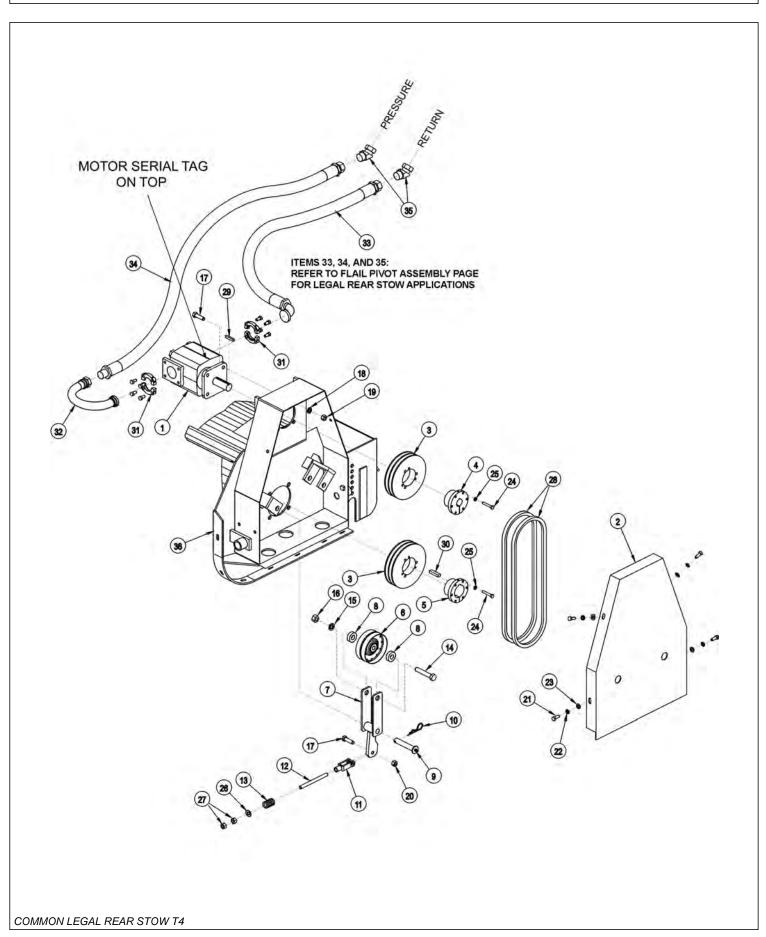
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISH,60"
2	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	34878	2	SPACER
4	34684	2	STANDARD GRASS KNIFE
5	34685	2	HIGH SUCTION GRASS KNIFE (OPTIONAL)
6	34497	2	KNIFE MOUNTING BOLT
7	25270	6	FLATWASHER,5/8",GR8,USS
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
	6T1825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

#### **50IN FLAIL DRIVE ASSEMBLY**

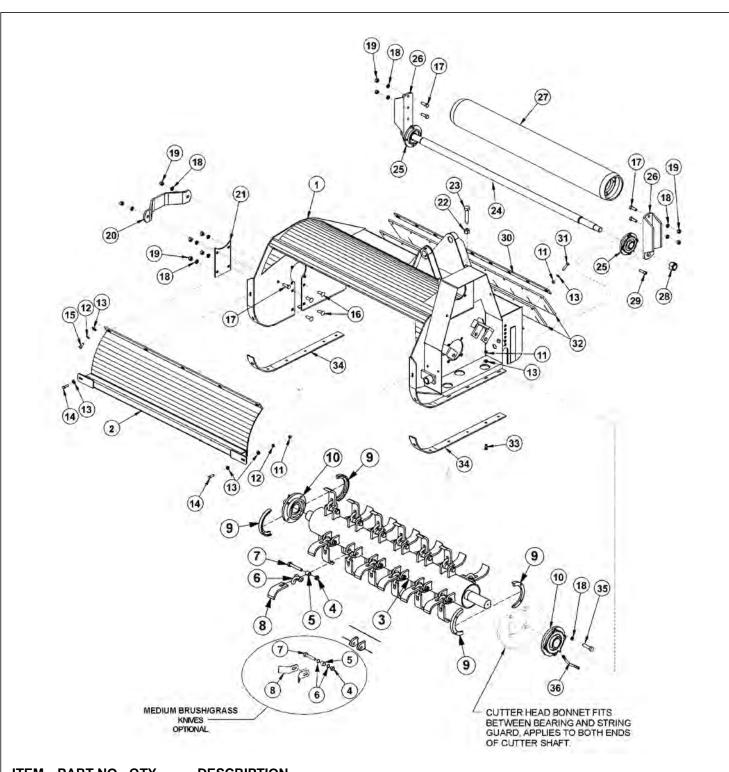


# **50IN FLAIL DRIVE ASSEMBLY**

### Continued...

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**



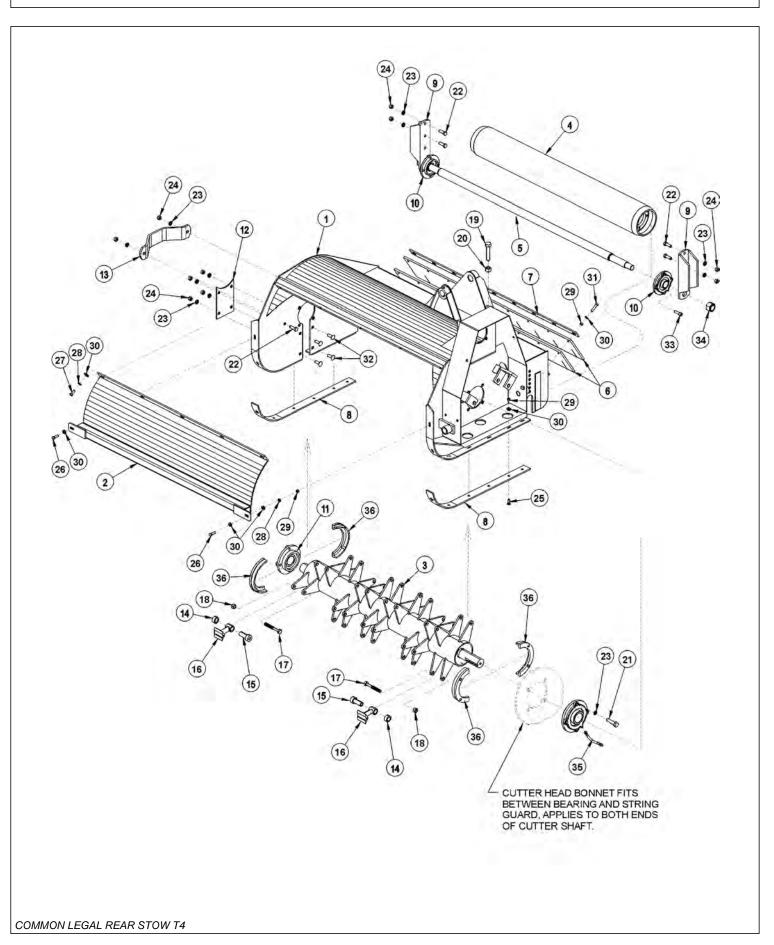
	PART NO.	QIY.	DESCRIPTION
	34787	1	FLAIL,BOOM,50,BRUSH,CPLT ASSY (LIGHT BRUSH/GRASS)
	06742133	1	$FLAIL, BOOM, 50, MD\ GRASS, CPLT\ ASSY\ (MEDIUM\ BRUSH/GRASS)$
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD

# **50IN FLAIL MOWER ASSEMBLY**

### Continued...

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	41725.01HT	24	BUSHING,1"OD X 5/8"ID
6	34782	24	CLEVIS (LIGHT BRUSH/GRASS KNIVES)
	06430122	48	SPACER (MEDIUM BRUSH/GRASS KNIVES)
7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
8	34780	24	KNIFE (LIGHT BRUSH/GRASS CUTTING)
	06521007	48	KNIFE (MEDIUM 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

# 50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES

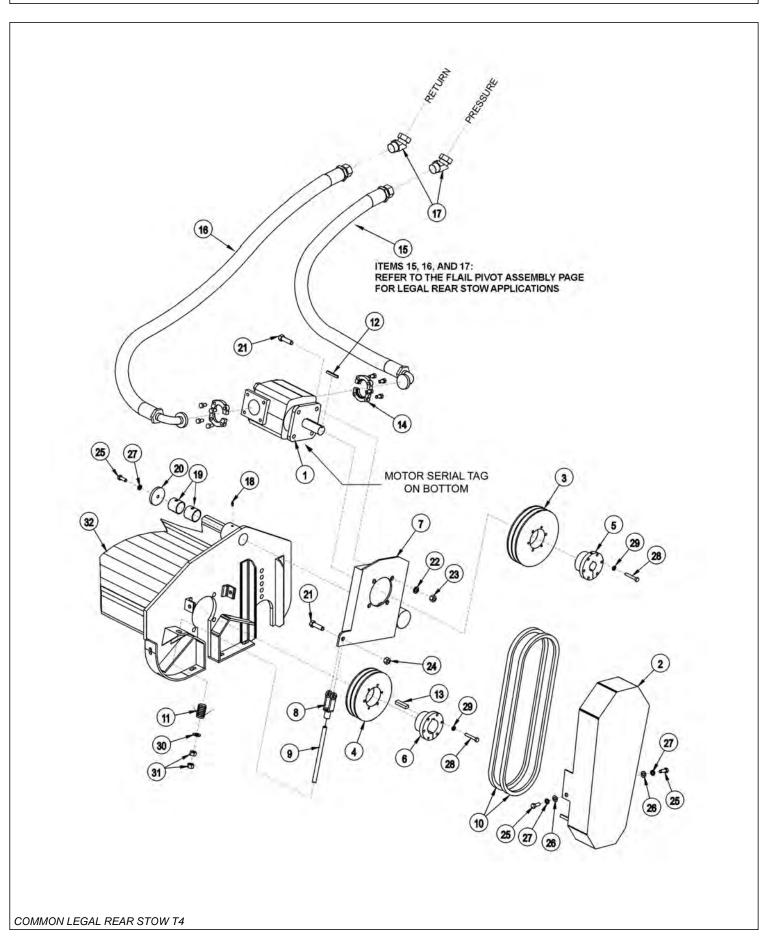


# 50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES

### Continued...

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**

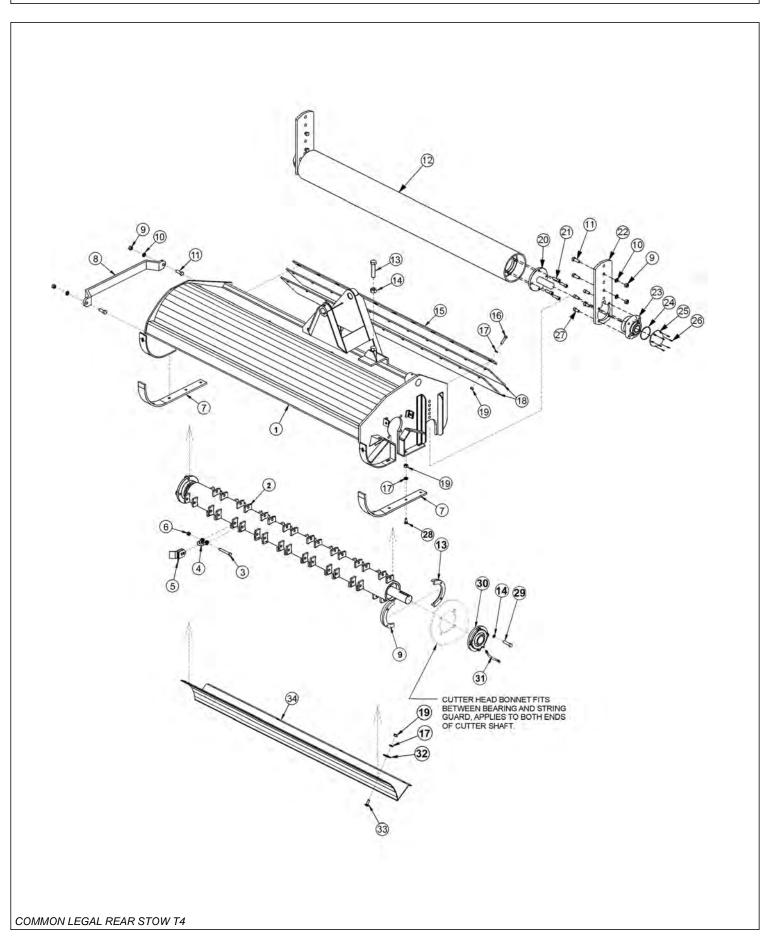


# **63IN FLAIL DRIVE ASSEMBLY**

### Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4 GEAR)
2	32569	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4	TF3040	1	LOWER SHEAVE
5	TF3013	1	BUSHING
6	28723	1	BUSHING
7	28679B	1	MOTOR CHANNEL
8	PT3611A	1	CLEVIS
9	40496	1	THREADED ROD
10	28702	2	BELT
11	TF3620A	1	TENSIONER SPRING
12	28572	1	SQUARE KEY
13	26142A	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1 X 69 - PRESSURE
16	30309	1	HOSE,1 X 78 - RETURN
17	24724	2	SWIVEL FITTING
18	TF1033	1	GREASE ZERK
19	27580	2	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW 1/2" X 1 3/4"
22	21990	4	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	6T2418	1	STOVER NUT 1/2"
25	21630	3	CAPSCREW 3/8" X 1"
26	22016	2	FLATWASHER 3/8"
27	21988	3	LOCKWASHER 3/8"
28	21584	6	CAPSCREW 5/16" X 2"
29	21987	6	LOCKWASHER 5/16"
30	27938	1	FLATWASHER 1/2"
31	21700	2	HEX NUT 1/2" NF
32		-	CUTTER HEAD *REFER TO MOWER ASSY

# **63IN FLAIL MOWER ASSEMBLY**

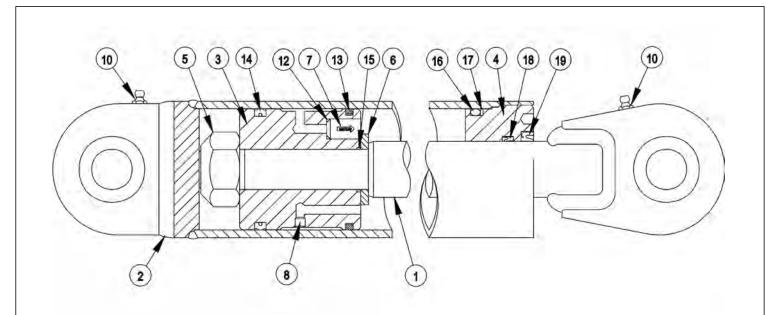


# **63IN FLAIL MOWER ASSEMBLY**

### Continued...

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)

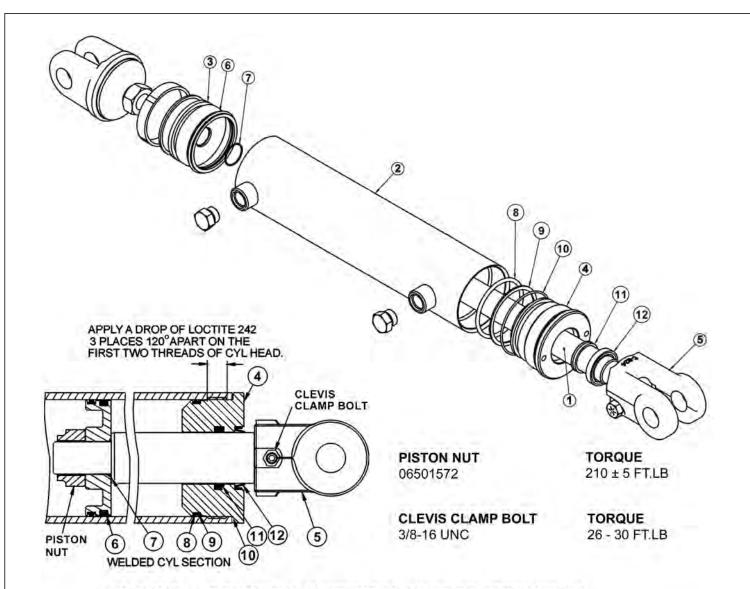
#### 3 IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN



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	06501631	1	BUTT & TUBE ASSY
	3	06501632	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	06501633	1	ORIFICE
	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)
1				

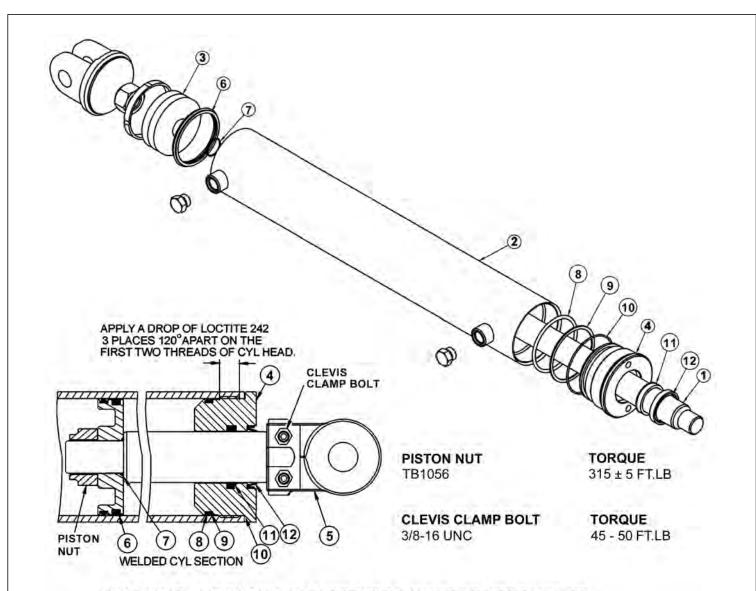
### **3IN X 18IN WELDED CYLINDER BREAKDOWN**



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

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

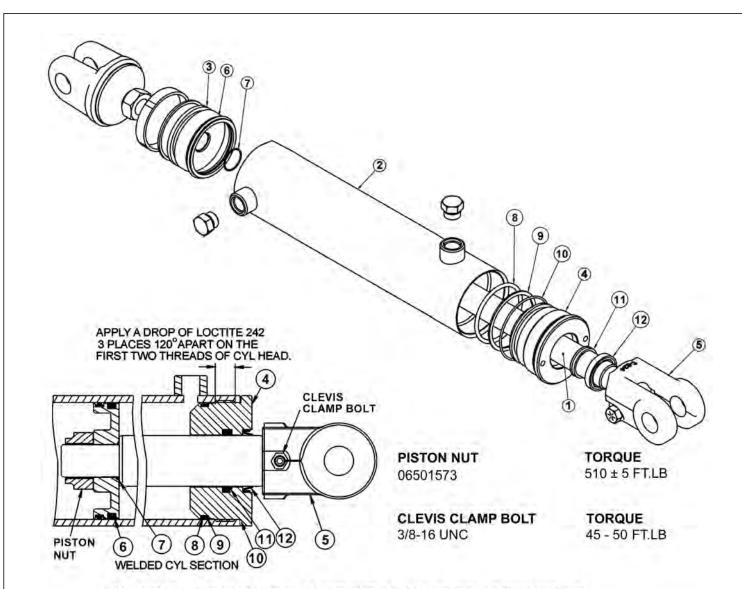
#### 3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
	06501024	-	HYDRAULIC CYLINDER COMPLETE
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)

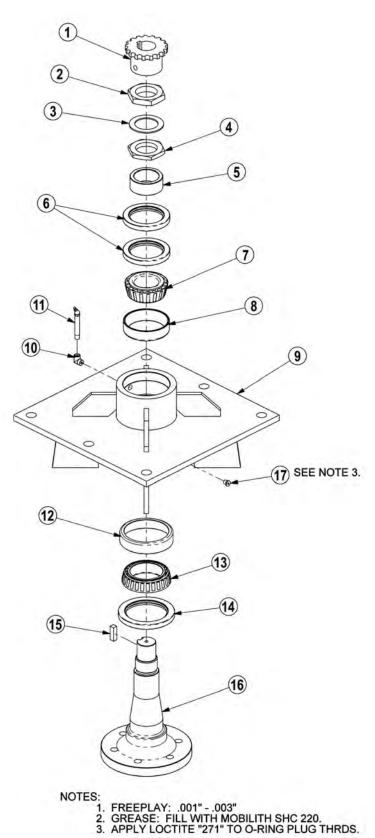
### **4IN X 20IN WELDED CYLINDER BREAKDOWN**



**WARNING -** MECHANICAL FASTENERS MUST BE TORQUED TO 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)
l				

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

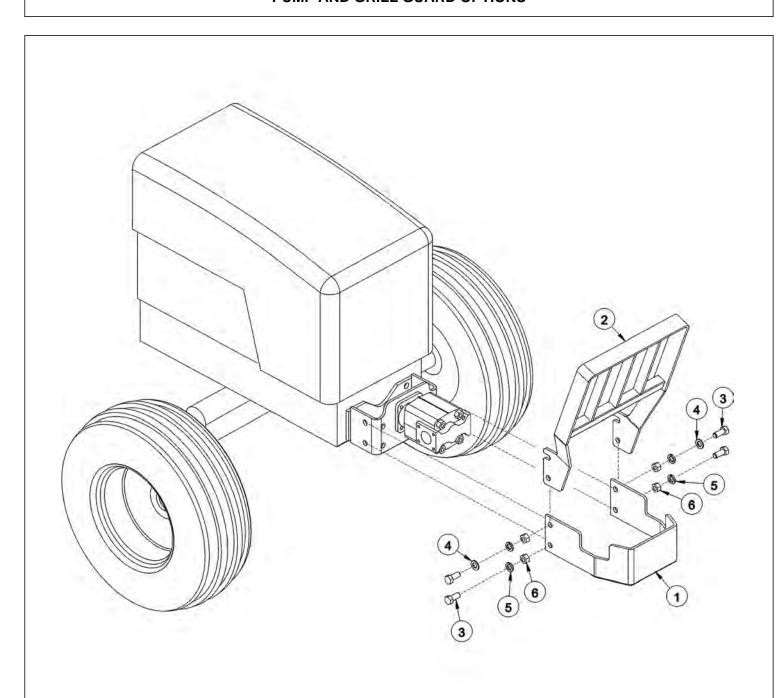


# **ROTARY MOWER SPINDLE ASSEMBLY**

# Continued...

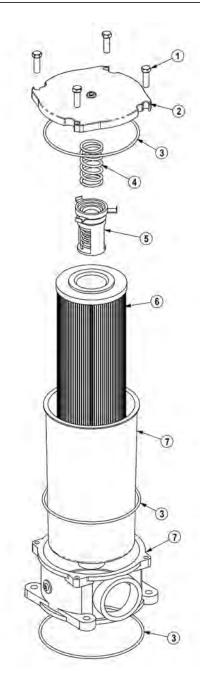
ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
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	PT1018H-5	1	SPINDLE
17	06503064	1	O-RING PLUG, 1/8"
	31771	-	SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15)

# **PUMP AND GRILL GUARD OPTIONS**



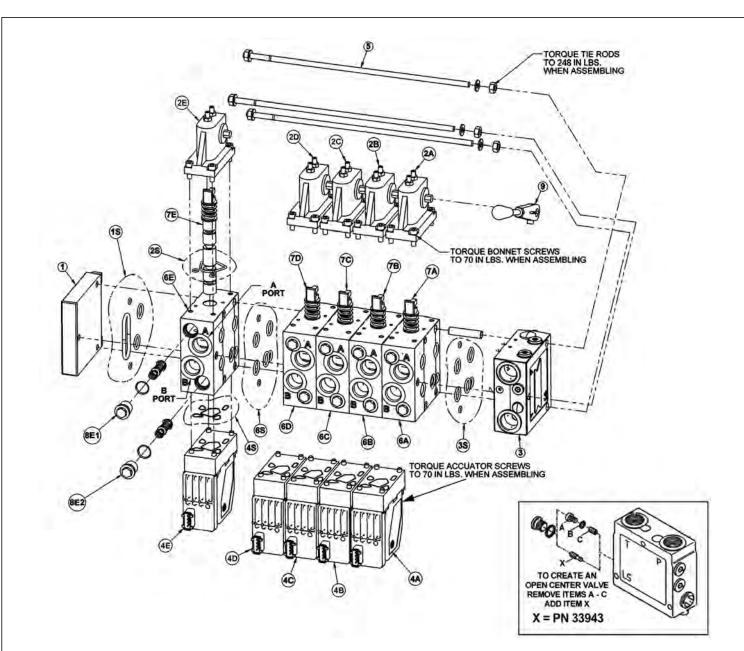
ITEM	PART NO.	QTY.	DESCRIPTION
1	32430	1	UNIVERSAL PUMP GUARD
2	32737	1	UNIVERSAL GRILL GUARD
3	21833	4	CAPSCREW,3/4" X 2-1/4",NC
4	22021	2	FLATWASHER,3/4"
5	21993	4	LOCKWASHER,3/4"
6	21825	4	HEX NUT,3/4",NC

# **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
ı				

## **5 SPOOL ELECTRONIC VALVE - BENGAL BRUTE**



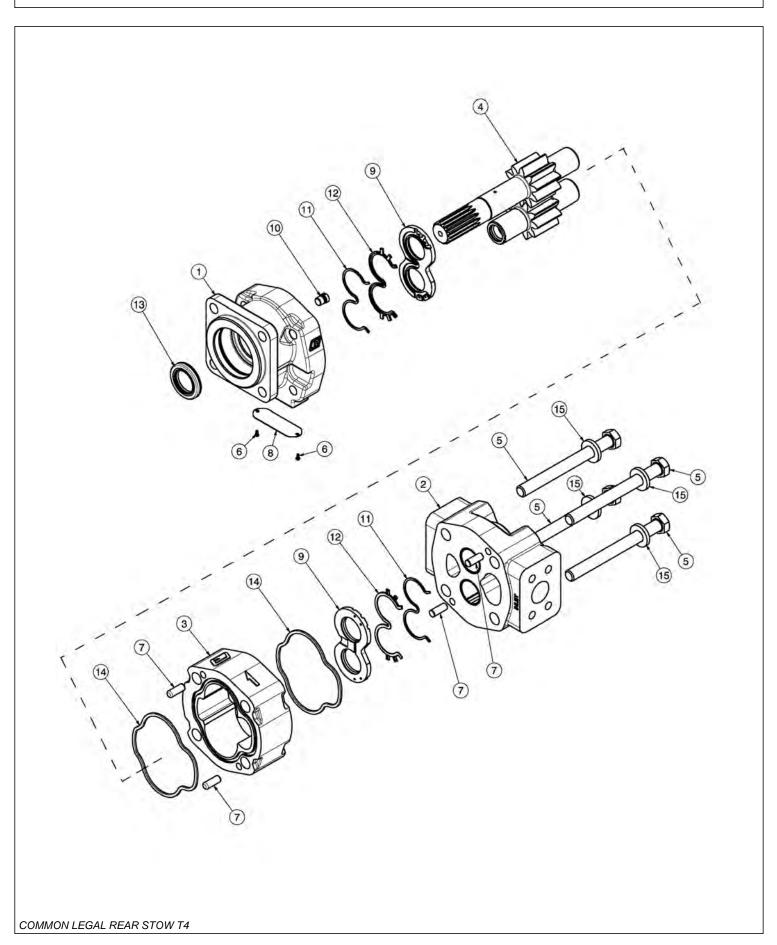
ITEM	PART NO.	QTY.	DESCRIPTION
	06700224	1	VALVE, 5SP
	06502097	1	VALVE, SUB-ASSEMBLY
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2		5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET

# **5 SPOOL ELECTRONIC VALVE - BENGAL BRUTE**

# Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
3	34308	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4		5	ELECTRONIC ACCUATOR
4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4E	06502099	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6		5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	06502077	1	SHIELD SECTION
7		5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8		10	ANTI CAV/SHOCK RELIEF
8A1	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

# FRONT HYDRAULIC PUMP

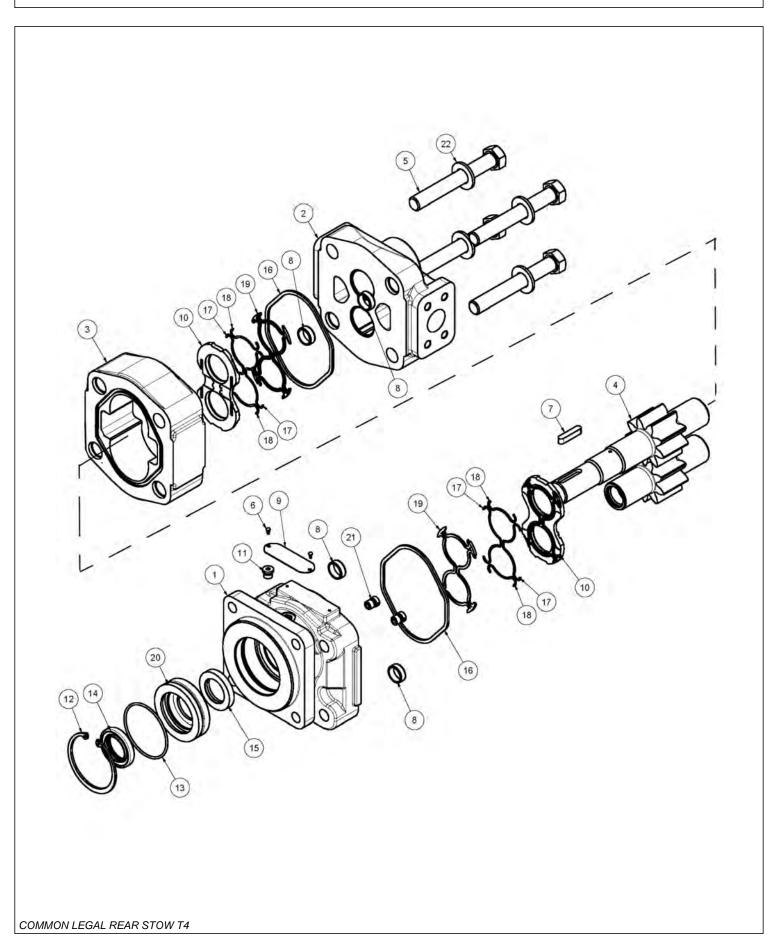


# FRONT HYDRAULIC PUMP

# Continued...

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

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

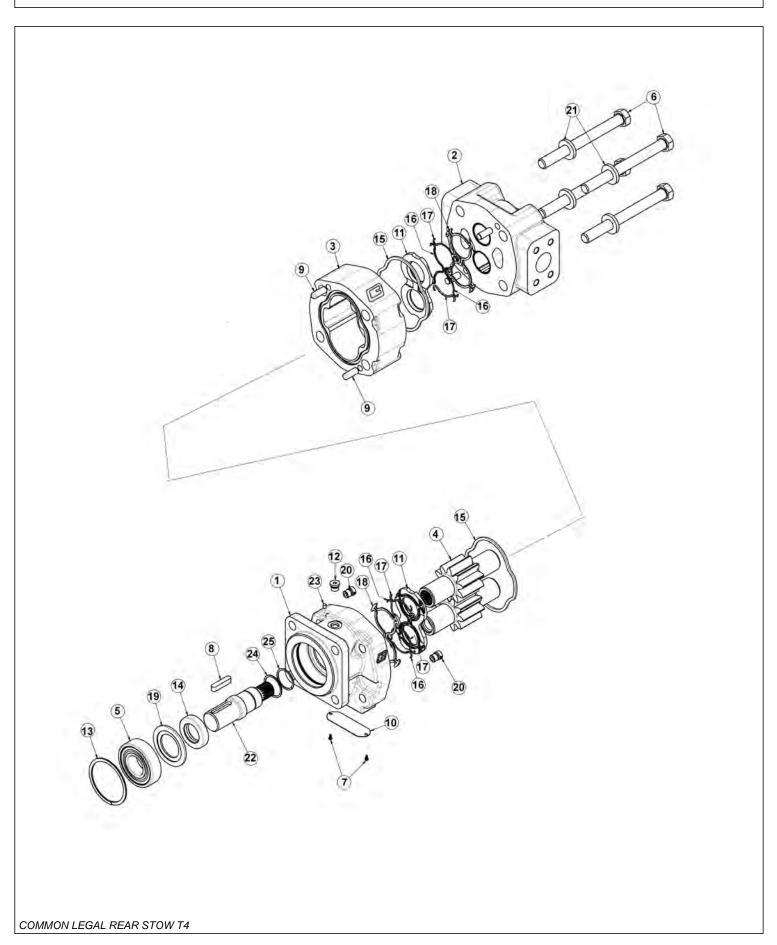


# **50IN AND 60IN ROTARY MOTOR BREAKDOWN**

# Continued...

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

# **FLAIL MOTOR BREAKDOWN**

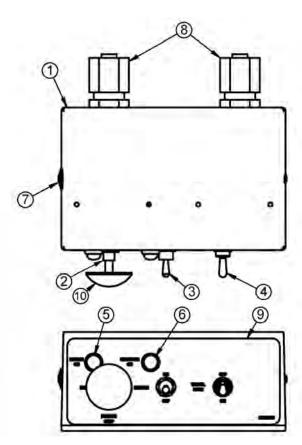


# **FLAIL MOTOR BREAKDOWN**

# Continued...

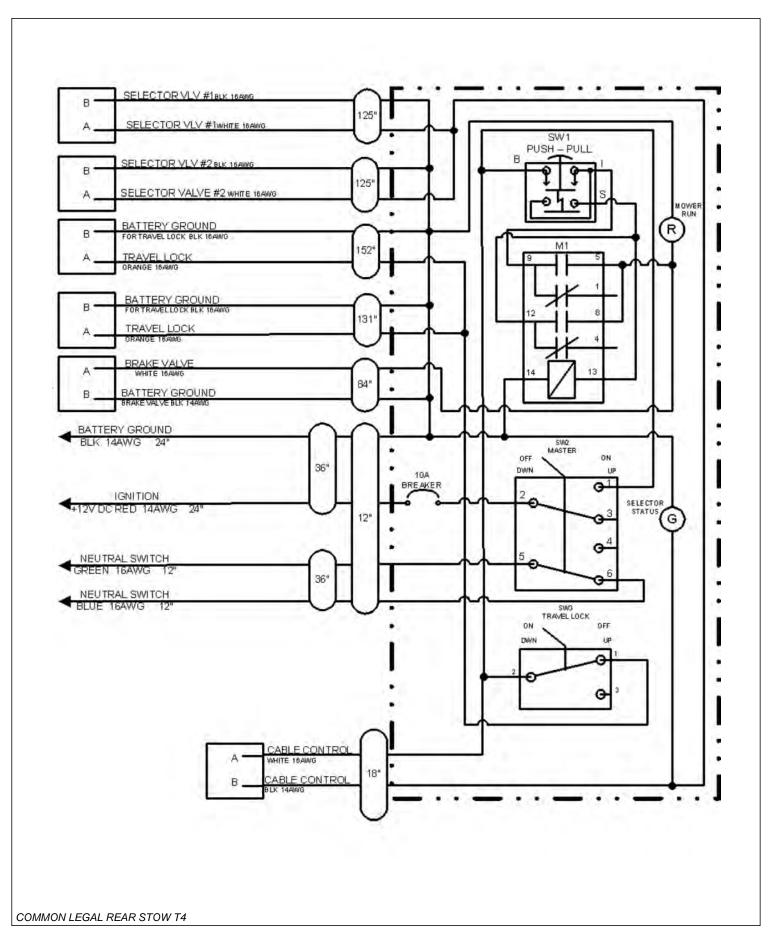
ITEM	PART NO.	QTY.	DESCRIPTION
*	06504132	-	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504141	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504117	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
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
*	06504022	-	SEAL KIT

# **MANUAL LIFT VALVE SWITCH BOX**

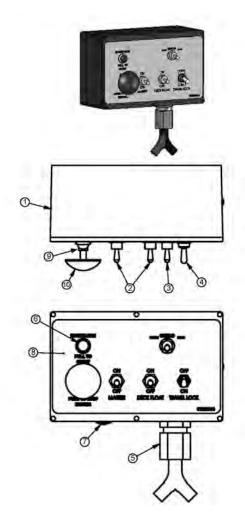


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510049	1	SWITCH BOX ASSEMBLY
	06514010	1	SWITCH BOX
2	35226	2	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	34532	1	SWITCH,TRVL LCK
5	6T3923	1	INDICATOR LIGHT,ON,RED
6	06510193	1	INDICTATOR LIGHT,ON,GREEN
7	06514006	1	BREAKER,15A,SWBX
8	34540	2	STRAIN RELIEF
9	06550043	1	DECAL,SWTCHBX
10	02964063	1	KNOB,RED
11	35227	1	RELAY,DP,DT,12V,LY2F (NOT SHOWN)

#### MANUAL LIFT VALVE SCHEMATIC

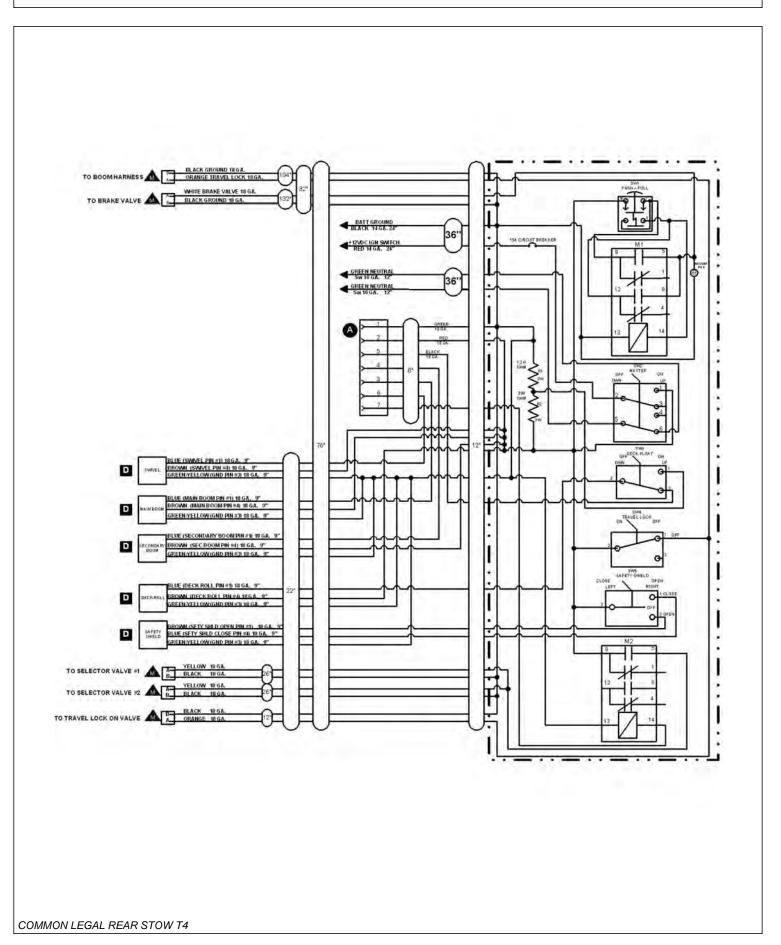


# **ELECTRONIC LIFT VALVE SWITCH BOX**

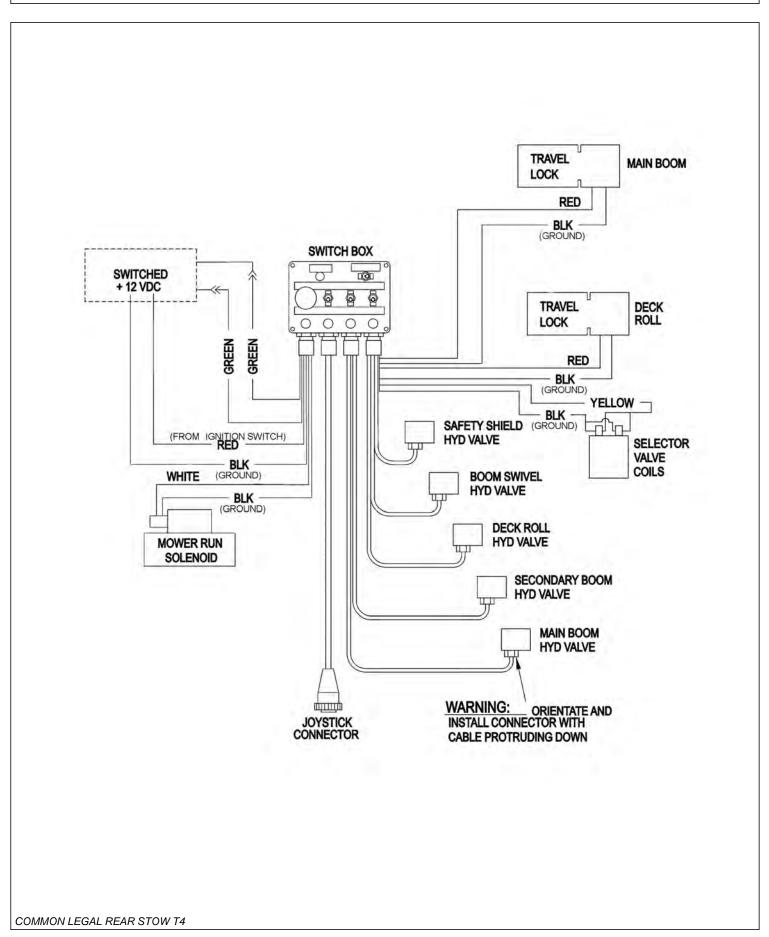


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510195	1	SWITCH BOX,ASSY
	06514008	1	SWITCH BOX
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,MOWER,COLEHERSEE
10	02964063	1	KNOB,RED
11	35227	1	RELAY,DP,DT,12V,LY2F,35226

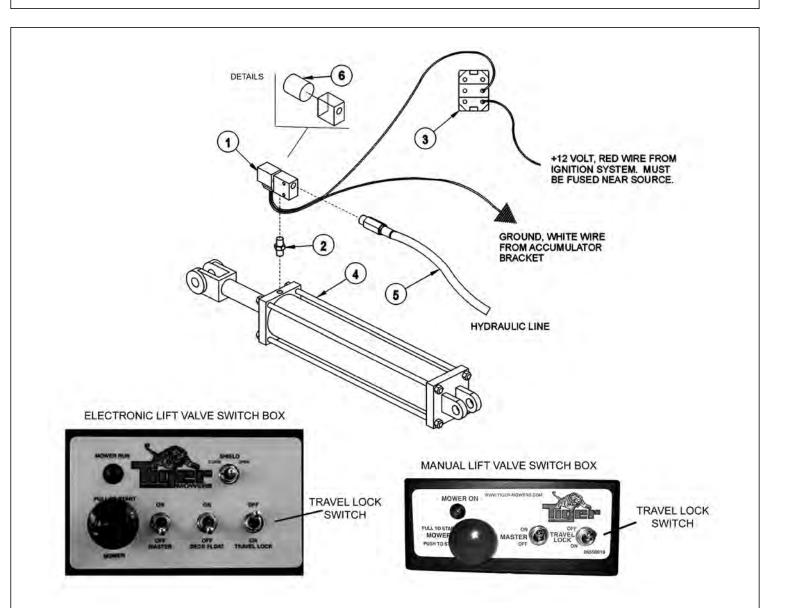
## **ELECTRONIC LIFT VALVE SCHEMATIC - REAR STOW**



#### **ELECTRONIC LIFT VALVE WIRING DIAGRAM**

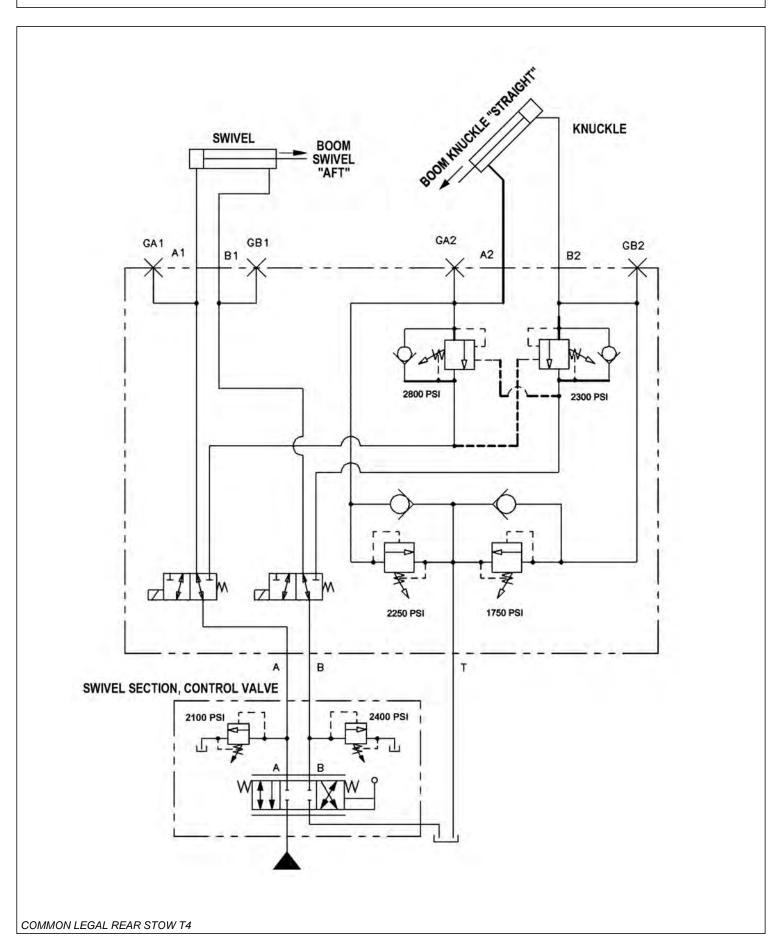


#### **BOOM TRAVEL LOCK**

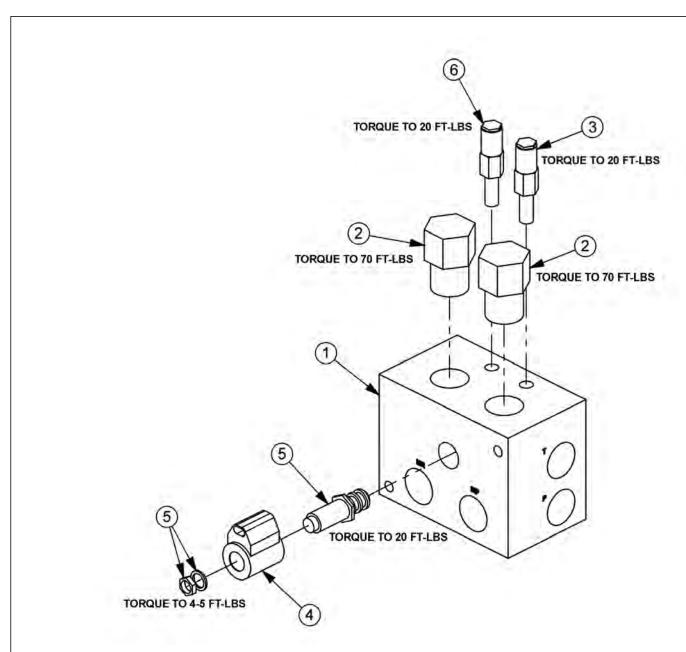


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510050	1	HYDRAULIC TRAVEL LOCK VALVE
2	31329	1	ADAPTER - STANDARD BOOM
3	34532	1	SWITCH,TRAVEL LOCK
4		-	MAIN BOOM CYLINDER *REFER TO BOOM ASSY
5		-	HOSE / FITTINGS *REFER TO BOOM HYD ASSY
6	06510092	1	COIL ,TRAVEL LOCK

## **SELECTOR VALVE SCHEMATIC**

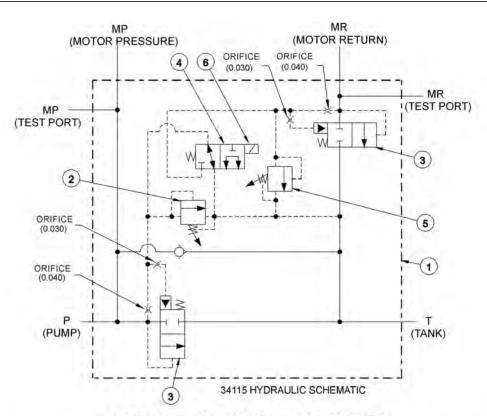


## **BRAKE VALVE ASSEMBLY**



ITEM	PART NO.	QTY.	DESCRIPTION
	06510083	1	BRAKE VALVE, ASSY
1	34092	1	BRAKE VALVE, BLANK
2	34094	2	LOGIC ELEMENT
3	34095	1	RELIEF VALVE, 3000 PSI
4	06510095	1	METRI PAK COIL
5	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
6	34091	1	RELIEF VALVE, 2600 PSI
	34096	2	RELIEF SEAL KIT
	34097	1	SOLENOID SEAL KIT
	34098	2	ELEMENT SEAL KIT
соммо	N LEGAL REAR	STOW T4	

#### BRAKE VALVE HYDRAULIC SCHEMATIC



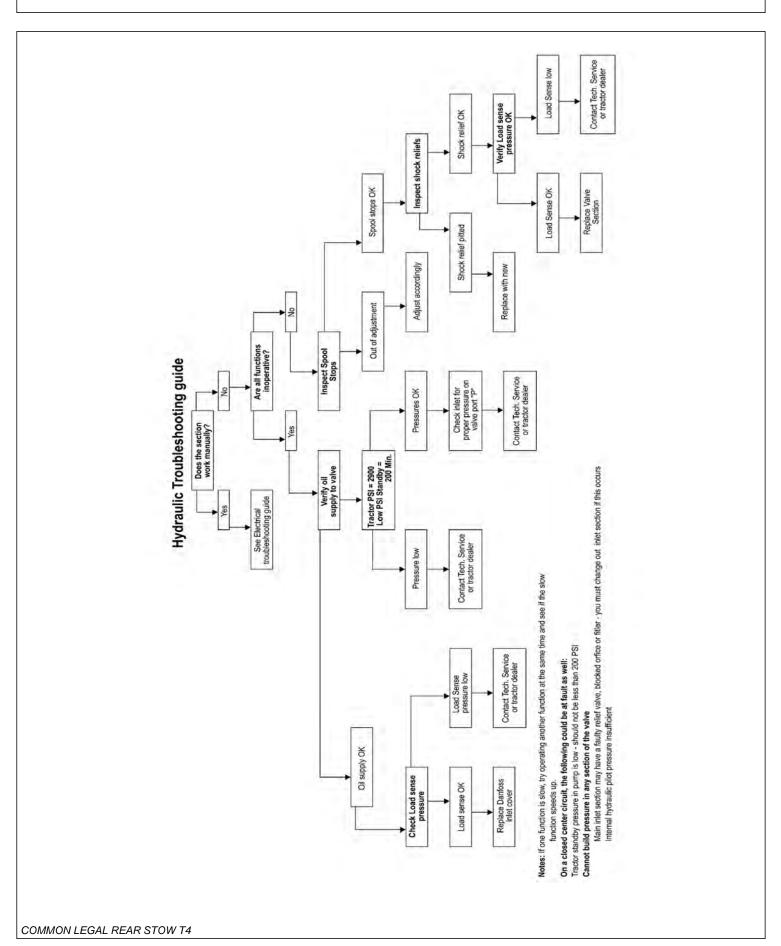
## BRAKE VALVE TROUBLESHOOTING

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

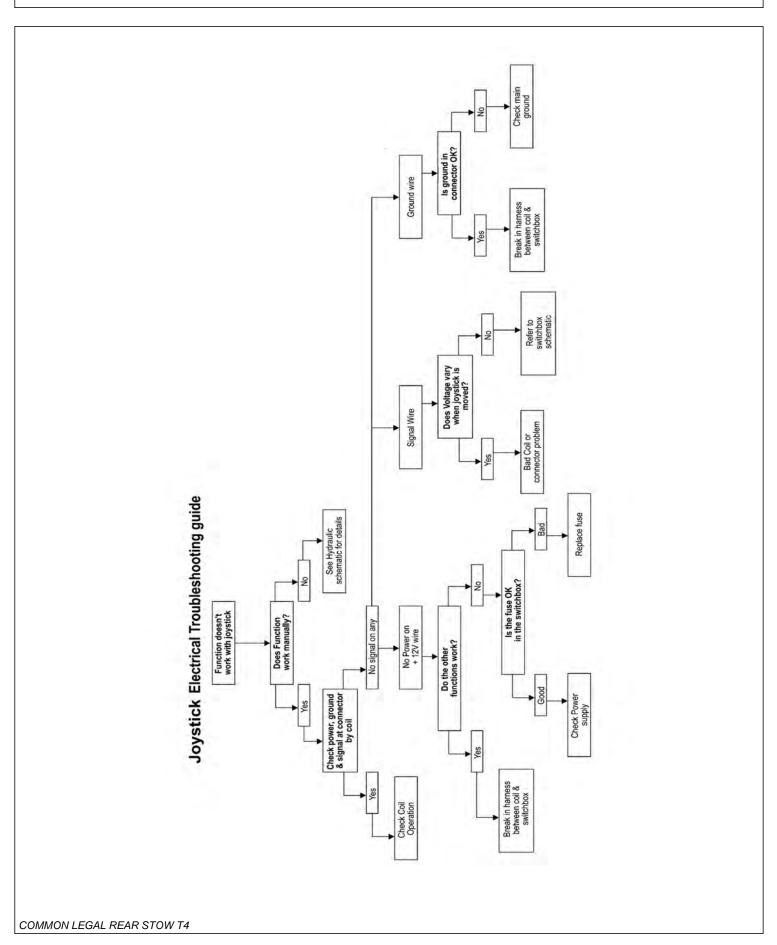
## CORRECTIVE STEPS:

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

## **HYDRAULIC TROUBLESHOOTING GUIDE**



# **ELECTRICAL TROUBLESHOOTING GUIDE**



#### TROUBLESHOOTING

# JOYSTICK TROUBLESHOOTING

#### Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

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

#### Electronic inspection.

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

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

Pin #1 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – Ground

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

Pin #1 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – Ground

Shield Valve or On/Off Valve – Voltage on pin #1 should be equal to supply voltage when switch is operated in A direction. Voltage on pin #4 should be equal to supply voltage when switch is operated in B direction.

Pin #1 - Signal Voltage (Shield Open), Pin #4 - Signal Voltage (Shield Close), Pin #3 - Ground

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

### Possible electronic problems.

Open circuit (broken wire, bad connection or loose connection in switchbox). Shorted to positive, ground, or other. Incorrect voltage signal from joystick.

#### Continued on next sheet

#### TROUBLESHOOTING - CONTINUED

Hydraulic inspection.

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

With the spools in Neutral

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

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

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

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

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

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

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

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

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

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

Operate more than one spool.

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

Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.



# WARRANTY INFORMATION

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

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

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

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

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

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

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

# **ONE LAST WORD**

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



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

