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# FORWARD

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

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

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

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

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

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

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

MANUFACTURED BY:

**Tiger Corporation**

3301 N. Louise Ave.

Sioux Falls, SD 57107

1-800-843-6849

1-605-336-7900

www.tiger-mowers.com

DISTRIBUTED BY:

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1- \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

1- \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_



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1012

**This symbol means:**

**CAUTION – YOUR SAFETY IS AT RISK!**

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

Tiger is a registered trademark.





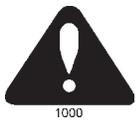
# **SAFETY SECTION**

# SAFETY

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

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

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



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.

**CAUTION!**



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

**WARNING!**



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

**DANGER!**



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)

**SAFETY INSTRUCTIONS**

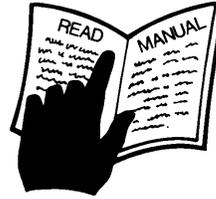


# SAFETY

**PELIGRO!**



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



**¡ LEA EL INSTRUCTIVO!**

**DANGER!**



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency! Never allow inexperienced or untrained personnel to operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. \*UI /6+



**WARNING!**

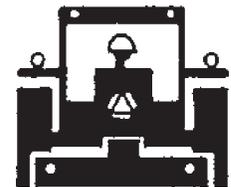


Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. \*UI /7+

**WARNING!**



Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. \*UI /8+



**WARNING!**



Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. \*UI /9+



**WARNING!**



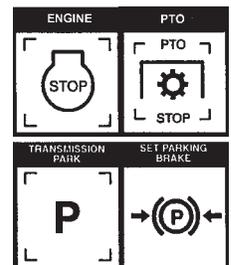
Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. \*UI /:+

**DANGER!**



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

\*\*\*\*\*UI /:+



# SAFETY

**DANGER!**



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

\*\*\*\*\*UI /32+



**DANGER!**



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

\*\*\*\*\*UI /33+



**WARNING!**



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

34+

\*\*\*\*\*UI /



**DANGER!**



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

\*UI /35+



**DANGER!**



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

\*\*\*UI /36+



**DANGER!**



Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. High-pressure 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.

\*\*\*UI /37+

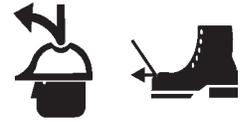


# SAFETY

## WARNING!



The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items thrown by the equipment. \*UI /38+



## CAUTION!



**PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. \*UI /19+



## WARNING!



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



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

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



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

# SAFETY

**WARNING!**



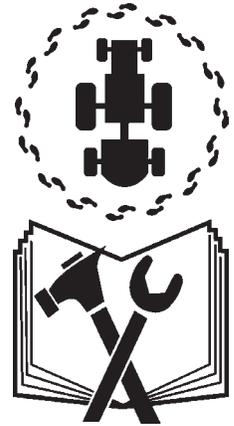
Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running. Make sure the tractor engine is off before working on the Implement.

\*\*\*\*\*UI /42+

**WARNING!**



Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins are properly secured. Serious injury may occur from not maintaining this machine in good working order. \*UI /43+



**WARNING!**



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



**DANGER!**



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

\*UI /45+

**DANGER!**



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

\*\*\*\*\*UI /46+



**DANGER!**



Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others. \*UI /47+

# SAFETY

## DANGER!



**NEVER use drugs or alcohol** immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. **NEVER** knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. \*UI /49+



## DANGER!



Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. \*UI /4; +

## WARNING!



Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 yards in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see this type of items discontinue mowing. \*UI 0/3+

## DANGER!



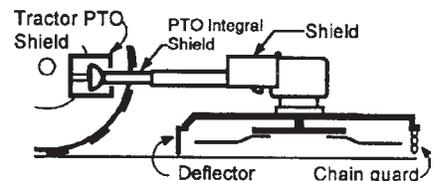
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless care is taken to insure the safety of the operator, bystanders, or passersby in the area. Do not operate this machine with anyone in the immediate area. Stop mowing if anyone is within 100 yards of mower. \*UI 0/4+



## DANGER!



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact. \*UI 0/5+



# SAFETY

## DANGER!



The rotating parts of this machine have been designed and tested for rugged use. However, the blades could fail upon impact with heavy, solid objects such as metal guard rails and concrete structures. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles. \*UI O/6+

## WARNING!



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. \*UI O/7+



## WARNING!



Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect the cutting area for such objects before mowing. Remove any like object from the site. Never allow the cutting blades to contact such items. \*\*UI O/8+

## WARNING!



Mow at the speed that you can safely operate and control the tractor and mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. \*UI O/9+

## WARNING!



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

## WARNING!



Do not put hands or feet under mower decks. Blade Contact can result serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. \*UI O/; +



## DANGER!



Replace bent or broken blade with new blades. NEVER ATTEMPT TO STRAIGHTEN OR WELD ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES. \*\*\*\*UI O/32+

# SAFETY

## WARNING!



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

## DANGER!



Rotary and Flail Mowers are capable under adverse conditions of throwing objects for great distances (100 yards or more) and causing serious injury or death. Follow safety messages carefully. **STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:**

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



**NOTE:** Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected closely with any remaining debris being removed, and mowed again at desired final height. \*UDO/3+



## DANGER!



Use extreme caution when raising the Mower head. Stop the Blades from turning when the Mower Head is raised and passersby are within 100 yards. Raising the Mower head exposes the Cutting Blades which creates a potentially serious hazard and can cause serious injury by objects thrown from the Blades or by contact with the Blades. \*\*\*\*\*UDO/4+

## DANGER!



Be particularly careful in transport. The Mower has raised the center of gravity for the tractor and has increased the possibility of overturn. Turn curves or go up slopes only at low speed and using a gradual turning angle. Slow down on rough or uneven surfaces. \*UDO/5+



## WARNING!



Never Leave the mower unattended while the head is in the raised position. The mower could fall causing serious injury to anyone who might inadvertently be under the mower. \*\*\*\*\*UDO/6+



## WARNING!



The rotating parts of this machine continue to rotate even after the Tractor has been turned off. The operator should remain in his seat for 60 seconds after the brake has been set, the PTO disengaged, the tractor turned off, and all evidence of rotation has ceased. \*UDO/7+

**“Wait a minute...Save a life!”**

# SAFETY

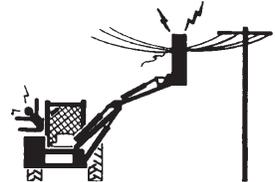


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to starting any maintenance or repair work. \*UDO /8+

**DANGER!**



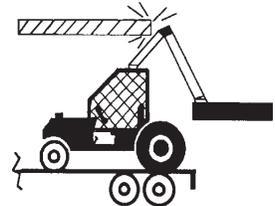
Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation. \*UDO /9+



**DANGER!**



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



**DANGER!**



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



**DANGER!**



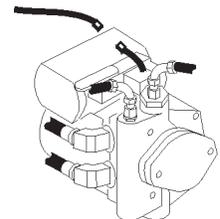
Each Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you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



**DANGER!**



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



**DANGER!**



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



# SAFETY

## WARNING!



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

## WARNING!



Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

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

SEE YOUR  DEALER

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

# SAFETY

DANGER

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

<p>1. </p>	<p>2. <b>NO RIDERS, NO CHILDREN OPERATORS</b></p>	<p>3. <b>USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, &amp; ROPS</b></p>	<p>4. <b>BLOCK UP SECURELY BEFORE WORKING UNDER</b></p>
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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.

2 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 from 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.

<p>5. <b>TRANSPORT SAFELY, LOCK UP</b></p>	<p>6. <b>USE SMV, LIGHTS, &amp; REFLECTORS.</b></p>	<p>7. <b>DO NOT OPERATE WITH MOWER OR WING RAISED</b></p>	<p>8. <b>DO NOT MOUNT OR DISMOUNT WHILE MOVING</b></p>
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PART NO.  
LOCATION

002369  
HYDRAULIC TANK

PELIGRO
LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien Que Si Lo Lea. Para Que le Traduzca las Medidas de Seguridad.

00725746

00725746  
INSIDE OF CAB

DANGER

THROWN OBJECTS

CUTTING BLADES

KEEP AWAY - ROTATING BLADES

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

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

00769737

00769737  
MOWER DECK

# SAFETY



PART NO.  
LOCATION

00758194  
MOWER DECK



02962764  
MAIN BOOM, SECONDARY BOOM, MAIN FRAME



02962765  
MAIN FRAME

02965262  
HYDRAULIC TANK

# SAFETY

## **DANGER**

CUTTING BLADES



THROWN OBJECTS



PART NO.  
LOCATION

02967668  
MOWER DECK

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

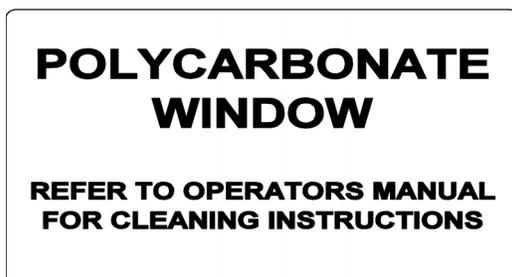
BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH

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

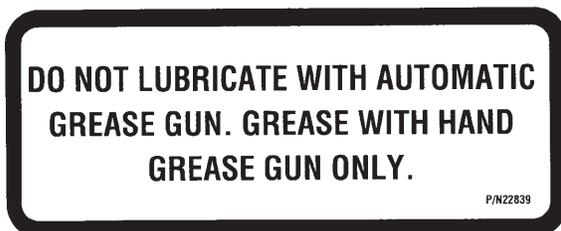
02971123  
HYDRAULIC TANK



03200285  
OUTSIDE OF CAB



22645  
INSIDE OF CAB



22839  
MOWER DECK

# SAFETY



PART NO.  
LOCATION

22840  
INSIDE OF CAB



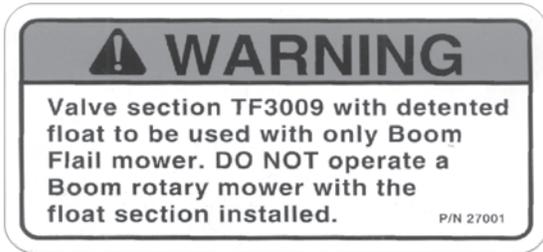
24028  
MOWER DECK

25387  
INSIDE OF CAB



10" x 5.5" 31522  
MOWER DECK, MAIN BOOM  
18.25" x 10" 31523  
HYDRAULIC TANK  
13.5" x 7" 31513

# SAFETY



PART NO.  
LOCATION

27001  
INSIDE OF CAB



31935  
INSIDE OF CAB

## DANGER

1. EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POUNDS CONTACT WITH THE SURFACE TO PREVENT LATERAL INSTABILITY AND POSSIBLE TIP-OVER WITH BODILY INJURY. WIDEN WHEEL TREAD AND ADD WEIGHTS IF NEEDED. SEE MANUAL OR CALL TIGER CUSTOMER SERVICE FOR COUNTERWEIGHT PROCEDURE.
 

1.
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.
 

2.
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.
 

3.
4. NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD TRIMMING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.
 

4.
5. KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.
 

5.
6. 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
 

6.

32707  
HYDRAULIC TANK



42350  
MOWER DECK

# SAFETY

## ATTENTION

**SERVICE HYDRAULIC SYSTEM  
WITH UNIVERSAL TRACTOR  
HYDRAULIC OIL.**

32708

PART NO.  
LOCATION

32708  
HYDRAULIC TANK

## 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

32709  
INSIDE OF CAB

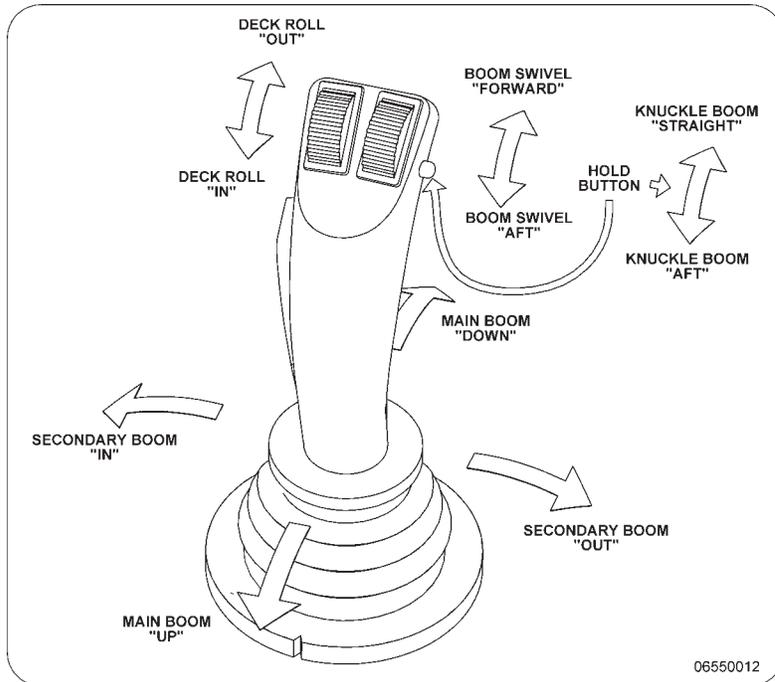
33224  
MOWER DECK

# Tiger™

33438  
MAIN BOOM

# SAFETY

PART NO.  
LOCATION



06550012  
INSIDE OF CAB

## MOWING SAFETY TIPS

- 1 Read & understand the Operators Manual.
- 2 Wear Your Seat Belt.
- 3 Keep all shields and guards in place.
- 4 Make sure equipment is in proper working condition.
- 5 Never attempt to get off or on a moving tractor.
- 6 Never allow riders on tractor or equipment.
- 7 Only start the tractor from the seat with the key.
- 8 Always inspect the area before mowing. Remove all foreign debris.
- 9 Always keep bystanders and coworkers a minimum of 300 feet away.
- 10 Never allow the mower blades to contact solid objects or foreign material.
- 11 Never approach rotating elements.
- 12 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.

**Tiger**

33743

33743  
INSIDE OF CAB

# SAFETY

PART NO.  
LOCATION



RED 42399  
REFLECTIVE TAPE  
MOWER DECK



AMBER 424006  
REFLECTIVE TAPE  
MOWER DECK



6T3217  
MOWER DECK



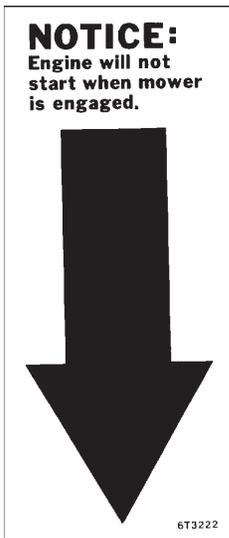
6T3219  
INSIDE OF CAB

6T3220  
FRONT PUMP MOUNT

# SAFETY



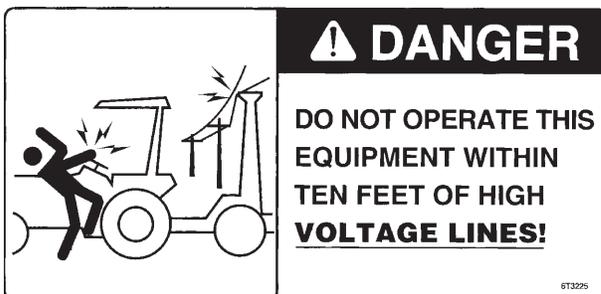
PART NO.  
LOCATION  
  
6T3221  
INSIDE OF CAB



6T3222  
INSIDE OF CAB

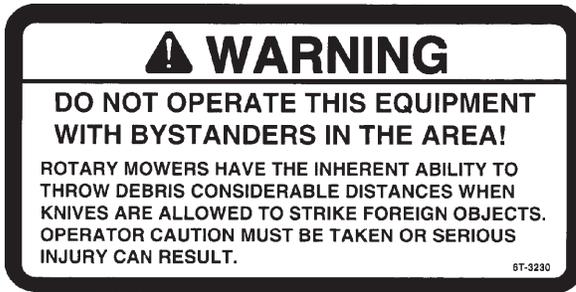


6T3224  
MOWER DECK



6T3225  
INSIDE OF CAB

# SAFETY



PART NO.  
LOCATION

6T3230  
INSIDE OF CAB



6T3231  
INSIDE OF CAB



6T3233  
HYDRAULIC TANK



6T3234  
INSIDE OF CAB



6T3236  
MOWER DECK

# SAFETY

**⚠ WARNING**

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

6T-3237

6T3237

PART NO.  
LOCATION  
6T3237  
INSIDE OF CAB

<p>DOWN ↑ MAIN BOOM ↓ UP</p> <p><small>06650008</small></p>	<p>OUT ↑ SECONDARY BOOM ↓ IN</p>	<p>OUT ↑ DECK ROLL ↓ IN</p>	<p>CLOSE ↑ SHIELD ↓ OPEN</p>	<p>FORWARD ↑ SWIVEL ↓ AFT</p>	<p>IN ↑ SWITCH / KNUCKLE ↓ OUT</p>
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06550008  
INSIDE OF CAB

<p><b>⚠ WARNING</b></p> <p>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.</p>	<p><b>IMPORTANT</b></p> <ul style="list-style-type: none"> <li>• WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY.</li> <li>• SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS.</li> </ul> <p><small>6T-3243</small></p>
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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

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

6T3261  
MOWER DECK

# SAFETY



## WARNING

**DO NOT OPERATE MOWER  
WITH SAFETY SHIELD REMOVED.**

TB1011

TB1011  
MOWER DECK



**Tiger Corporation**

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

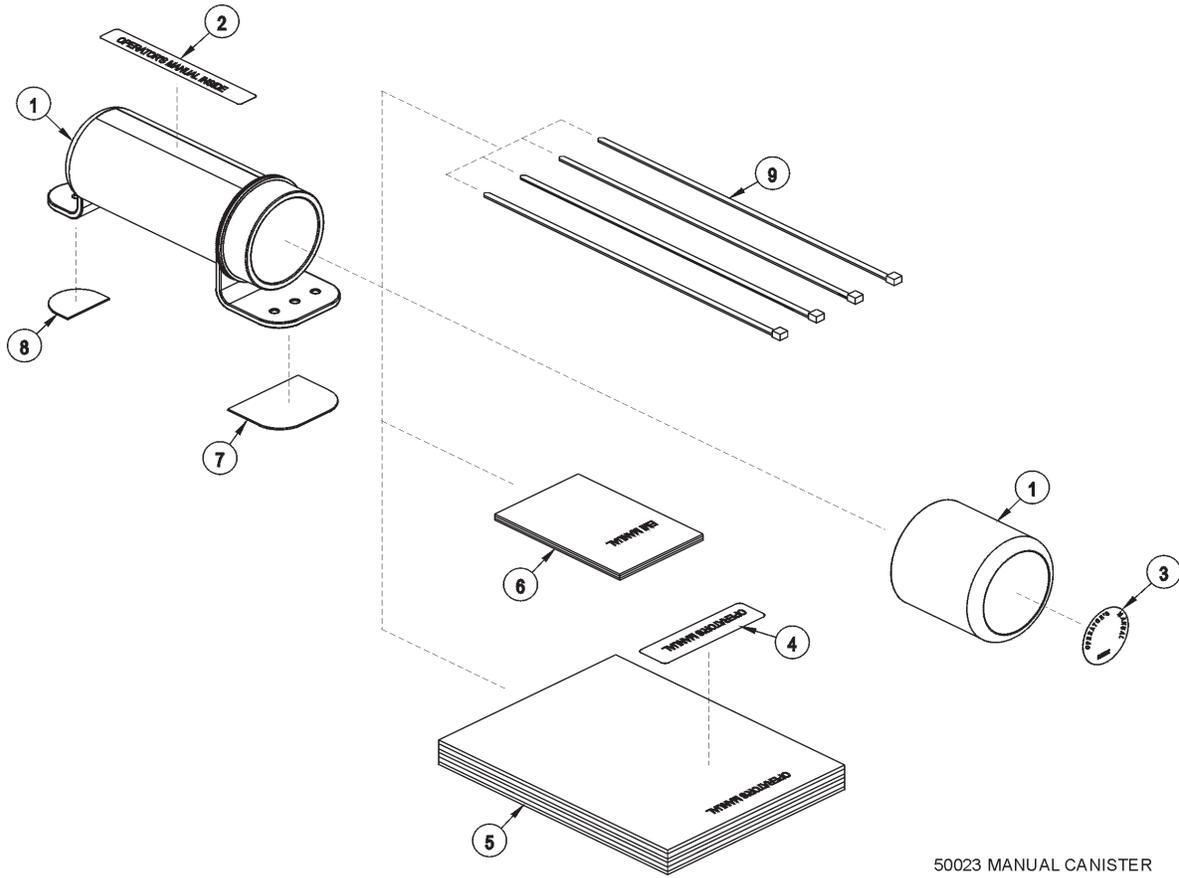
Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics Cold Temperatures 0°F Start-up  Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 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

**For Mobil product information, availability, or technical information, call 1-800-662-4525.**

Tiger PN 34852

34852  
HYDRAULIC TANK

# SAFETY



ITEM	PART NO.	QTY.	DESCRIPTION
	<b>50023</b>	<b>AVAIL</b>	<b>MANUAL CANISTER COMPLETE</b>
1	00776031	1	ROUND MANUAL CANISTER
	33997	1	DECAL, SHEET, MANUAL CANISTER
2		*	DECAL
3		*	DECAL
4		*	DECAL
5	*	AVAIL	SPECIFIC PRODUCT MANUAL
6	33753	1	E M I SAFETY MANUAL
7	34296	1	FRONT ADHESIVE PAD
8	34297	1	REAR ADHESIVE PAD
9	6T1823	4	ZIP TIE 14" LONG

**NOTE:**

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

# SAFETY

## FEDERAL LAWS AND REGULATIONS

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

### **Employer-Employee Operator Regulations**

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

#### **This Act Seeks:**

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

#### **DUTIES**

Sec. 5 (a) Each employer-

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

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

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

#### **OSHA Regulations**

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

#### **Employer Responsibilities:**

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

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

#### **Child Labor Under 16 Years of Age**

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

# SAFETY

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# 5 GG9 A 6 @M

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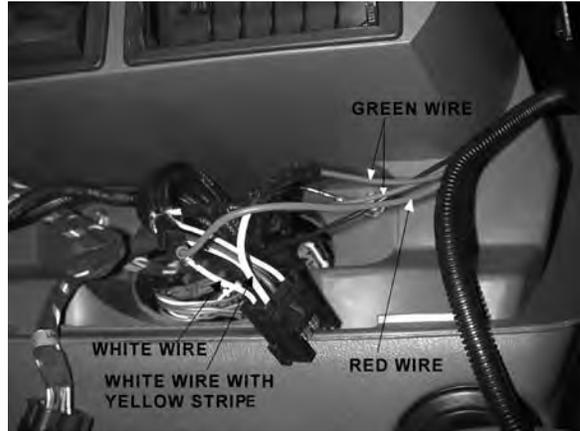
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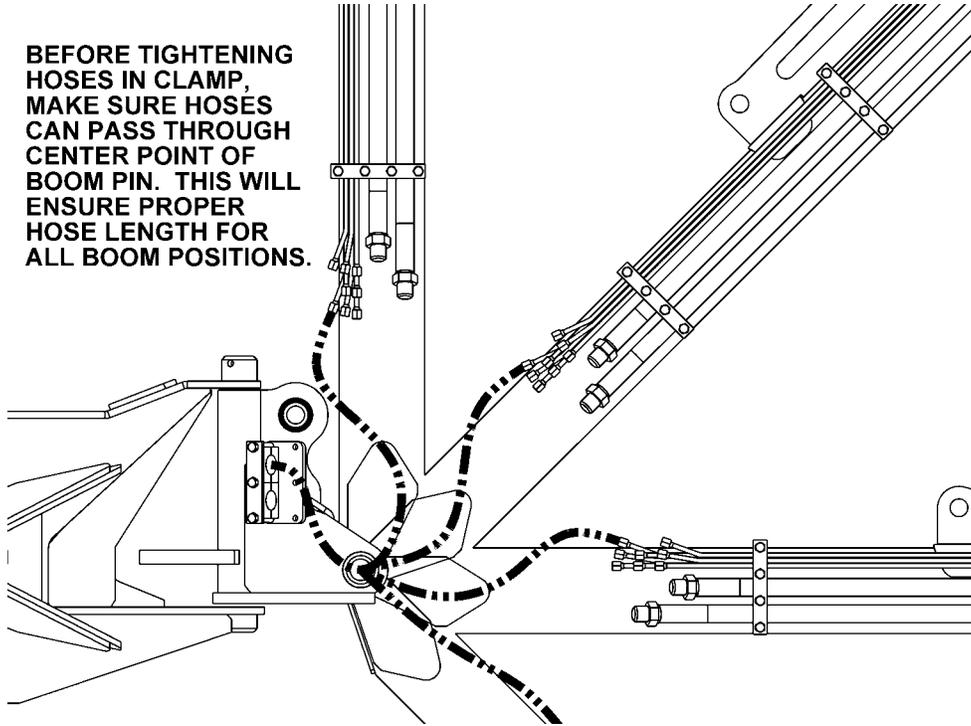




# 5 GG9 A 6 @M

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BEFORE TIGHTENING HOSES IN CLAMP, MAKE SURE HOSES CAN PASS THROUGH CENTER POINT OF BOOM PIN. THIS WILL ENSURE PROPER HOSE LENGTH FOR ALL BOOM POSITIONS.



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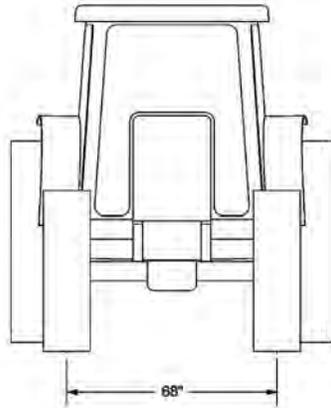




# 5 GG9 A 6 @M

## ( K 8 : FCBH'K <99 @5 8>I GHA 9 BH

QÁ |á^!Á Á |^ç^} &•Á ã@ [ ~ } c'áÁ ~ á { ^ } ã@Á [ ] c'Á @^!•Á } Á  
 á Y Ö Ö æ ^ Á | € Á æ c { Á æ d | Á á | Á c ^ Á Á ^ Á á b • c á Á Á ^ Á } | | c á æ | ^ Á | + Á  
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 | | á ^ ! • Á c á á c æ & Á @ ~ | á Á ^ Á } | | c á æ | ^ Á | + Á | ~ à ^ Á & @ & Á @ Á @ ^ Á  
 • ] á á \* Á c | Á á b • d ^ } c'Á Á • & | á á \* Á á á ; } á \* Á @ Á ^ Á ~ Á | Á | Á c'Á Á } & Á

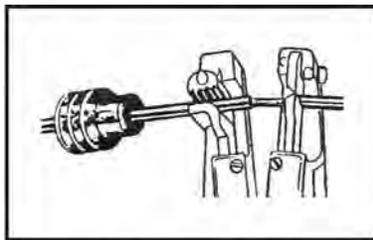


## K 95 H < 9 F ! D 5 7 ? # A 9 H F = D 5 7 ? ' 5 GG9 A 6 @M

V @ • ^ Á • d ~ & c } • Á } | ^ Á Á | c Á ^ á @ | É Á Á Á á Á ^ d á Á Á } } ^ & d | • É

### BCH9 . 1 g Y H Y g d Y W Z W t c ~ Z f ' h Y h m d Y c Z W b b Y W t f ' n c i ' U f Y U g g Y a V ' ] b [ "

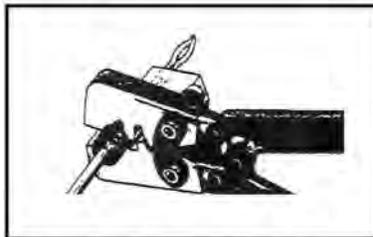
(ASM-C-0009)



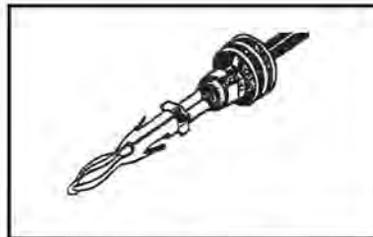
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



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



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







# 5 GG9 A 6 @M

## 6 CCA >CMGH7 ? 7 CBHF C @7 5 @6 F 5 HCB'ft CBHBI 98L

**A5-B'6CCA.** %CEÁU[ :cZÖ [ { ÁM }K Ì ÈÉÁ^& } á•

(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.)

%CEÁU[ :cZÖ [ { ÄÖ [ , }K Ì ÈÉÁ^& } á•

(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.)

### G97CB85FM

**6CCA** %CEÁU[ :cZÖ [ { ÁU~ dK Ì ÈÉÁ^& } á•

(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.)

ÄÄ

%CEÁU[ :cZÖ [ { ÄÖK Ì ÈÉÁ^& } á•

(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.)

**897?FC@@** %CEÁU[ :cZÖ^& ÁU~ dK Ì ÈÉÁ^& } á•

(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.)

%CEÁU[ :cZÖ^& ÄÖ [ , }K Ì ÈÉÁ^& } á• ÄÖ [ , }K Ì ÈÉÁ^& } á•

(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.)

### 6CCA

**GK J9 @** %CEÁU[ :cZÖ [ { ÄÖ [ , }K Ì ÈÉÁ^& } á• ÄÖ [ , }K Ì ÈÉÁ^& } á•

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

%CEÁU[ :cZÖ [ { ÄÖ [ , }K Ì ÈÉÁ^& } á• ÄÖ [ , }K Ì ÈÉÁ^& } á•

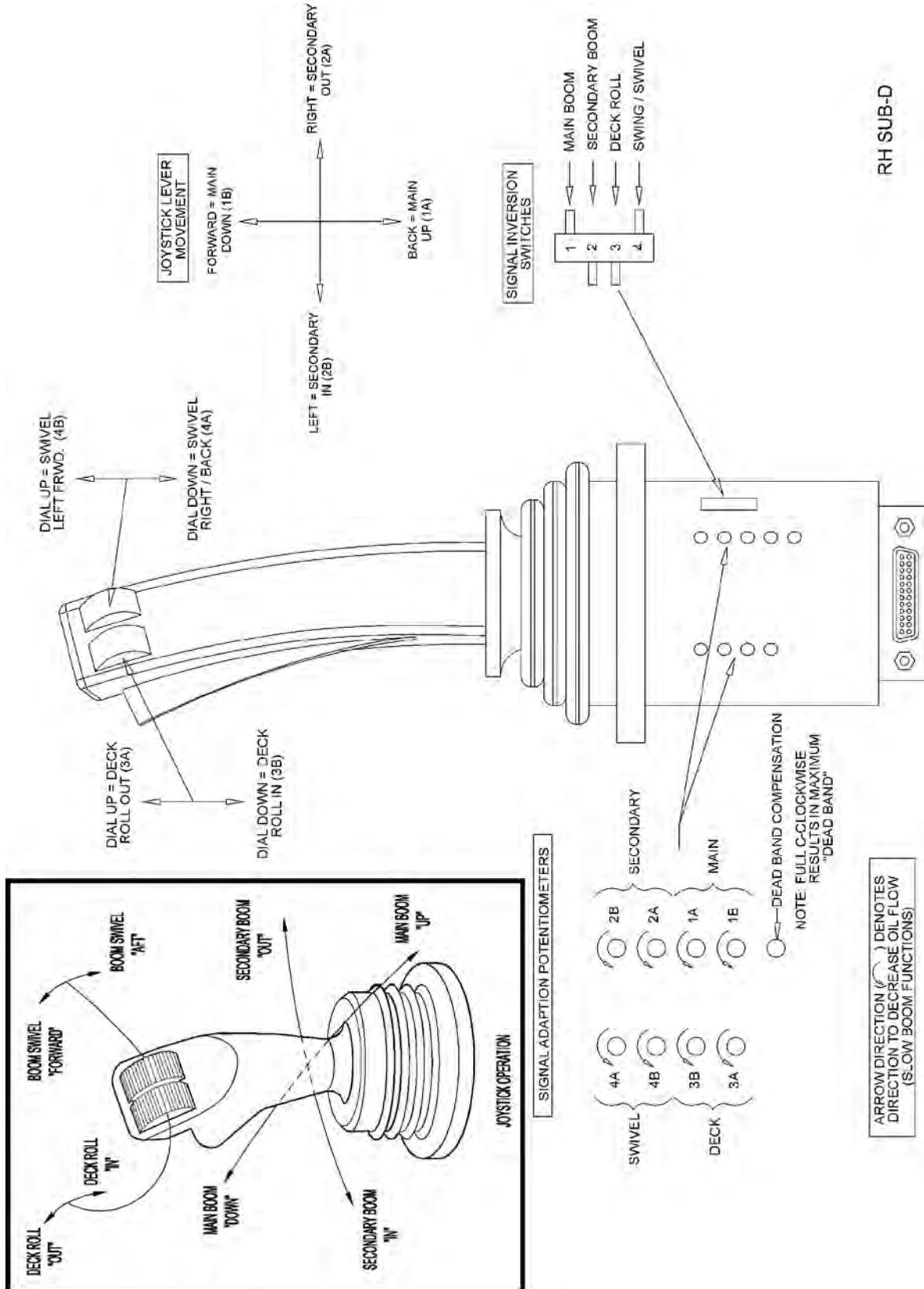
(Extend booms completely, rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom aft until near tire. Then index the boom swivel "forward" function and determine the time required for the boom to swivel full forward.)

(ASM-C-0082)



# ASSEMBLY

## BOOM JOYSTICK DIAGRAM (ASM-C-0082A)



# 5 GG9 A 6 @M

## : B5 @DF 9 D5 F 5 HCB: CF CD9 F 5 HCB

Úæ^Á] ^æ[ qÁæ^c Áæ áÁ] ^æ[ Áæ&æ^Á} Á@Á^c^q \* Á[ { } Áæ áÁæ^Á} • [ ^Á @ ^ c@ ^ Áæ^Á] ^æ[ Áæ^Á] Á@Á] ^æ[ ÉV@ ^ Áæ&æ^Á @ ^ |áÁ^Á} á^ | d [ áÁ^ Áæ^Á] ^æ[ Á ~ c@Á æ&æ^Á} b } &æ] Á æ@Áæ^c Áæ áÁ] ^æ[ Á^&æ] • Á Áæ Á [ \ ÉV @ Áæ^Áæ^ d Á^Á ææ ^áÁ Á [ áÁ] áæ] Áæ Áæ^ { á á^Á Á@Á] ^æ[ Éæ áÁ @ ^ |áÁ^Á] |æ^áÁæ áæ æ^áÉ

ÇÁ[ ••^ É á • Áæ áÁ æ[ q] [ á • Á] |Á ^áÁ Á^Á! ^æ^áÁæ Áæ • d ^ &c^áÁ Á@ÁT ææ c} æ & Á^&æ] Á Áæ Á æ ^ æV@Á@áæ |æ^Á^c [ Á^Á] ^áÁ æ@Á^Á& [ { ^ } á^áÁ^ æ Ç^ÁT ææ c} æ & Á^&æ] Dæ áÁ@Áæ / Áæ • æ^áÁ Á@Á] Á Á@Áæ \ ÉV [ ^ |áÁ&@ & ÁæÁæ \* • æ áÁæ c} ^ • ÁÓÓUÜOÁææ \* Áææd |ÉV [ Á^& ^ Áæ ^ Á [ • Áæ • Áæ ^ c@Á] æ@Á áÁæ Áæ á , |æ Á æ] |áæ • Á @ ^ Á^&æ] Á æ Á & Á] Á@Áæ • É



ÓÓUÜOÁææ \* Á] ^æ[ Á@Áæd |Á [ ^ Á ^ • c^áÁæ áÁ} á^ • æ áÁ@Á Úæ^c Áæ áÁ] ^æ[ Á^&æ] • Á Áæ Á æ ^ æ [ ] |c^É

69 GI F9 H<9 65 @J5 @9G 5 F9 CD9B Úæ^c^q | Áæ áÁ [ , Áæ • d { ^ } • Á Áææá^É W á \* Áæ áÁ Á æ ^ Á] Áæ áÁ [ c^áÁ Á@Áæ^c Áæ áÁT ææ c} æ & Á^&æ] • É&@ & Áæ ææ \* • Áæ áÁ] ^ &æ] • Á |Á@áæ |æ^Áæ • É

ÇÁæ Áæ Áæ ^ } áÉ [ ^ Á ^ • c^@Á [ , } Á@Áæd | Áæ áÁ^c^Á@Áæ c^Á] Á@Á [ ^ } áÉV@ ^ | ^ æ { } ç \* Á Áæ Á@Áæ É [ ^ Á ^ • Áæ^c æ Á@Áæ^c^Á@Áæ á^ • Á^c^Áæ Áæ ^ Áæ Á^c^Áæ ^ | • • ^ | Áæ Á@Áæ • É

6 YZfYcdYUj] b 'H Ya ck YÉ@ & c^Á@æáæ áÁ [ [ Á @ ^ |áÁ^Á] , | Á [ c^áÁ@ ] ^ \* @ ^ c c@Á | Áæ \* Á Á [ ç ] ÉV æ&æ^Á} Áæ ^ Á] áæ] Áæ [ ^ |áÁæ^Á} &æ \* Á | Áæ^Áæ • Á d^Á } c@Áæ • ÉV@Á^c^q \* Áæ áÁ [ } cæ^Áæ^Á @ [ ^ |áÁæ [ Á^Áæ^ | | Á [ c^áÁ@ ] ^ \* @c^áÁ | | æ \* Á Á [ ç ] ÉV@ ^ Á] áæ] Á & ^ • Á Á @æ@Áæ • Á } æ@Á@Áæ^ É@Á^c^q \* Áæ áÁ [ |Á] cæ^Áæ^Á æ Á^áÁ Á^Áæ æ^áÁæ^ & æ^áÁ Á@Áæd |Á] ^æ[ qÁ æ ^ æV@Áæ • @ ^ |áÁæ [ Á^Á] ^ Á@Áæ^Á^ áÉ | Áæ^Áæ^ ^ | Á [ ^ Áæ Áæ ^ Á c@Áæ^c^Á@Á [ , ^ É ^ & @ æ Á@Á@áæ |æ^Á] Á | Áæ^Áæ^ ÉV@Á æ Á & ^ áÁæáæ \* Á @ • Á | Áæ b • ç \* Á d | Á | • Á @ dæd |Á [ } Á [ c^Á@Á] | á^ { ÉV @ Áæ@ & á \* Á [ ç ] É [ ^ Á @ ^ |áÁæ [ Á&@ & Á@æ@Á] } d | &æ æ Áæ^Á] ^ &c^áÁæ & |áæ \* Á Á@Á] ^æ[ q Áæ&æ^Á] Á@Áæ^Áæ á^ • É

## ACK 9F H9GHB;

Væ^Á@Áæd | Á Áæ |æ^Á^Á Á [ • Á æ & Á } Á@Á [ ^ } áÉV] ^æ^Á@Áæ |á á^ • Á@ [ ^ \* @ c@Á | Áæ \* Á Á [ ç ] Áæ æ ÉV | Áæ^Á@Áæ • Á ÁæÉV [ | , Á@Áæ • d ^ &æ] • Á Á@Á] ^æ[ Á^&æ] Á Á] ^æ^Á@Á [ , ^ ÉV Áæ] Á Á@Á [ , ^ Á @ ^ |áÁ^Á} áæ æ Áæ^Áæ ^ • ÉV@ ^ Áæ { á ^ c^Á^c^Á } É@Á} áÁ [ | • Á @ ^ |áÁ^Á^d | ^ áÉæ áÁ^d | ^ áÁ} & Áæ æ Áæ^Á@Áæ^Á , @ ^ | • Á Á] ^æ[ ] É

ZUbmIdUfHg'cZH ]g'5 ggYa V'miGYW]c bZcf'Ubmich Yf'gYW]cb'cZH ]g'a Ubi U'UFY bchWYUf'mi bXYfglccX'nci 'a i ghVcblWinc i f'XYU Yf'cf'h Y'UXXfYgg'cb'h Y'ZcbhcZ h ]g'a Ubi U'Zcf'Ugg]ghLbWV (ASM-C-0010)





**CD9 F 5 HCB ' G9 7 HCB**

UJ ^!aa } A^&a } A#

# CD9F5HCB

## H 9F'6CCA'ACK 9F

### CD9F5HB; 'BGHFI 7HCBG

Va^!ÁÓ[[{ •Áe^Á e} ~æc'!^áÁ ã@Á ~æc'Á æ'!æÁ^Á \]!^!•ÉÁV@ÁÓ[[{ ÁÁ ÁÁ•ã }^áÁ Áææ&@Á Áe  
 dæd'!Áe} áÁ] ^!æ^Áæã ~Á@æã•Á ÁÁÁ ãÁÁæ \*^Á Á^\*^ææ^Á æ} e} æ&Áæ] |ææã } •ÉÁV@ÁÁ[[{ Áe} á  
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 ] | çæ^Á ] ^!æ Áe} áÁæ•^!á^Á | e&æ } ÉÁ, ^c'!ÉÁ [ Á @|áá \*Á ÁÉÉÁ Áæ& ^æ ÉÁÉÁÁæ^c'Á ~ã { ^ } e} } á  
 •æ^c'Á æ} } \*Áá&æ^Á ~•e^Á æ} æ} ^áÁ } Á@Á } ãÁ Á[[ áÁ] ^!æã } æ& } áá } Áæã|ÁÁ ^•É

QÁ Á@Á ] ^!æ | çÁ^• ] ] •ææc'Á ÁÁ^Á ] ] | á^ææ|ÁÁ Áe|Á ] e} çæÁ ] ^!æã \*Áe æá•Áe} áÁ Áæ^c'Á^!  
 ^æ ] æ|Á^!&æ ç } ÁÁ } ^!Á } ^•^!ÉÁ @!•Ée} á æ Ée} áÁ ] ] ^!c'Á Áe^Á [ e} b'!áÁ | Áæ æ^áÁÁ Á@  
 à[[{ Á } áÁææd'!Á | Áæ@ ] ] Á áb&ÉÁÁ [ Á ] ^!æ Á@Á [[{ Áe} áÁææ&@áÁ@æÁÁ^•æ} á!•ÉÁ æ•^!•á^É  
 ] ^c'Á | ÁÁ^•d' & Áe^Á ã@Á ÁÉÉÁ^c'Á Á@Á } áÉ

V@Á^Á&æ } Á Á@Á ] ^!æ | çÁ e} æÁ ÁÁ•ã } ^áÁ Áæ ææã^ÉÁ •d' &Ée} áÁá ~ææ^Á ] ^!æ | •Á Á@Áæ^Áe} á  
 ] ] ] ^!Á •^Á Á@Á [[{ Áe} áÁææ&@áÁ@æÉÁÁc'!^•Á } æ} ^áÁ Á@Á^Á&æ } Áe^Á e} á^áÁ ÁÁ^•^áÁ Áe  
 çã ~æÁæÁ Áe •ã e} Á c} | æ} } \*Á@Á ] ^!æ } Á ÁÁÓ[[{ Áe} áÁe^Á [ e} ^áÁ Áe^Á ÁÁÓ[[{ ÉÁ ] ^!Á æc'!^•Á æ  
 •@, Á @|á•Á^ { [ ç^áÁ Á } @e} &Áæ ~æ&ææ ÉÁ ÓÓÚÁ ] ^!æ Á@Á [[{ Á } ãÁ ã@ ~æç|Áæ^c'Á ~ã { ^ } e} }  
 ] | æ^Áe} áÁ Á [[ áÁ ] ^!æ } æÁ & } áá } ÉÁV@Á ] ^!æ | Á ~•e^Áæ ææÁ ã@Á Á [[{ Á } ãÁ æ} áÁææd'!  
 ] ] ^!æ } Áe} áÁç|Áæ^c'Á | ææ^Á Á^!^Á^\* } } \*Á ] ^!æ } ÉÁ ] ] ^!Á ] ^!æ } ÉÁ Áe^Áæ^áÁ Á@Á e} æÉÁ |  
 @ ] Á } •^!Á^æ^Á Áæ^Áe} áÁæææd'! Á•^Á Á@ÁÓ[[{

F958'5B8'I B89FGH5B8'Hk9'9BHf9'CD9F5HB; 'BGHFI 7HCBG'5B8'G5: 9HMG97HCB'C: 'Hk-G  
 A5BI 5 @ 5B8' Hk9' HF57HCF' A5BI 5 @ 69: CF9' 5HH9ADHB; 'HC' I G9' Hk9' HF57HCF' 5B8  
 -AD@A9BH' GÁ ] ~Á [ Á [ e} } á!•æ} áÁe} ^Á Á@Á •d' &æ } •ÉÁ } ææó [ ^!Áæ^•Áe} @|á^áÁÁæ^!Á | Áe  
 ~|Á c} | æ} æ } ÉÁÁæ&| •^Áæ } ç } ÁÁ Áe|Áæ^c'Á á } •Áe} áÁæ^c'Á ^•æ^•Áe} } æ} ^áÁ Á@Á e} æÁe} á  
 c@•^Áe} ^áÁ Á@Á ] | { ^ } e} } áÁæd' | ÉÁ (OPS-U-0001)

ÜÖÖÉÁV ÖÖÜÜVÖÖ ÖÉÁ áÁÜŠŠUY Á@Á ] ] , } \*Áæ^c'Á Á••æ^•ÉÁ ] ^!á ~•Á b'!Á!  
 áææç æÁ &&'!Á ] ••Áæ^Á Áe^ } ÁÁ ] ] , Á@Á æ} } \*Áe} áÁ •d' &æ } •ÁææáÁ Á@  
 Üæc'Á Á••æ^•ÉÁ, æ•Á•^Á [[ áÁ ] { [ ] Á^ } •^Á Áe| Áæ| áÁe} æá•ÉÁ

**SAFETY INSTRUCTIONS**



**PELIGRO**

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**LEA EL INSTRUCTIVO!**



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CD9F5HCB











# CD9F5HCB

CD9F5HCB

## ( 'GH5 FHCB; 'H<9 'HF57 HCF

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Þ ^ ç ^ i Á ~ } Á @ Á i æ ç | Á } \* ä ^ Á æ Á æ [ • Á á á ~ ä ä \* Á | Á æ ç ~ ç æ ^ ~ æ ^ ç ^ } ç æ } È Á V @ Á ç • Á { ^ • Á æ Á Á æ æ ä [ ~ • Á Á | ^ | Á @ æ ç



Ü ç æ ç æ ç | Á } | Á @ } Á | [ ] ^ | Á ^ æ ä ä Á @ Á i æ ç | Á ^ æ È Á æ ç \* Á æ ç æ ç | Á Á ^ æ Á æ Á ^ • | ç Á ä | Á | Á ^ æ È Á æ Á @ Á i æ ç | Á ] ^ i æ | { æ } æ Á | Á | [ ] ^ i Á æ ç \* Á • d ~ & ç } • È



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# CD9F5HCB

## Boom PRE-OPERATION Inspection



O qy gt "K %aaaaaaaaaaaaaaaa

O cmg aaaaaaaaaaaaaaaaaaaaa

F cvg<"\*\*\*\*\*"aaaaaaaaaaaaaaaa

Uj klv aaaaaaaaaaaaaaaaaaaaa



6 YZ:fY Wc bXi W]b[ ' H Y ]bgdYW]cbžā U\_Y gi fY'H Y fUWcf 'Yb[ ]bY'jg'cZZU''fcU]cb\ Uq  
 glcddYX' UbX' H Y fUWcf 'jg' ]b' dUf\_' k ]H ' H Y dUf\_ ]b[ ' VfU\_Y Yb[ U] YX" AU\_Y gi fY' H Y  
 a ck Yf 'jg'fYg]b[ ' cb' H Y [ fci bX'cf'gYW fYmV'cW\_YX' i d'UbX'U'\ mXfU' ]WdfYggi fY\ Uq  
 VYyb'fY]Yj YX"

Table 1:

Kgo	Eqpf kklq'cv'Uctv' qh'Uj klv	Ur gekle'Ego o gpw" kh'pqv'QCMO
Vj g'Qr gtcvtai'O cpwcrku'kp'yj g'tcevt		
Cmluchgv' f gecni'ctg'kp'r meg'cpf 'rgi kdr		
Vj g'o qwpvpi 'htco g'dqnu'ctg'kp'r meg'cpf 'kij v		
Vj g'dqgo 'eqppgevkp'dqnu'(' r kpu'ctg'kij v		
Vj gtg'ctg'pq'etcemi'kp'dqgo		
Vj g'j { ftcwle'e{ rpf gtu'r kpu'ctg'kij v		
Vj g'j { ftcwle'r wo r 'j que'eqppgevkpu'ctg'kij v		
Vj g'j { ftcwle'xcxkg'eqvtqni'hpvekp'r tqr gtn		
Vj gtg'ctg'pq'rgcnpi 'qt'f co ci gf 'j qugu		
Vj g'j { ftcwle'qlrlrxgriku'hwm		
Vj gtg'ku'pq'gxkf gpeg'qh'j { ftcwle'rgcni		
Vj g'drcf gu'ctg'pqv'ej kr gf . 'etcemf 'qt'dgpv		
Vj g'drcf g'dqnu'ctg'kij v		
Vj g'f ghgevqtu'ctg'kp'r meg'cpf 'kp'i qaf 'eqpf kklq		
Vj g'dqgo 'uj lgrf u'ctg'kp'r meg'cpf 'kp'i qaf 'eqpf kklq		
Vj g'unkf 'uj qgu'ctg'kp'i qaf 'eqpf kklq'cpf 'kij v		
Vj gtg'ctg'pq'etcemi'qt'j qgu'kp'dqgo 'f gem		
Vj g'j { ftcwle'o qvt'o qwpvpi 'dqnu'ctg'kij v		
Vj g'dqgo 'j gcf 'ur kpf rg'j qwvpi 'ku'kij v'cpf 'hwdtlecyf		

Qr gtcvtai'Uki pcwtg<

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

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# CD9F5HCB

CD9F5HCB

Equipment 'O qy gtu

Control panel for the CD9F5HCB, showing various hydraulic functions and their corresponding lever positions.

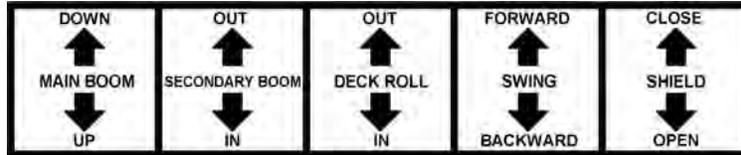
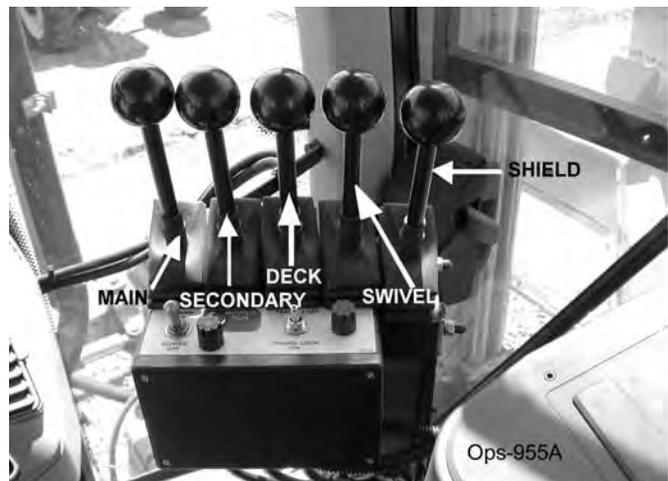
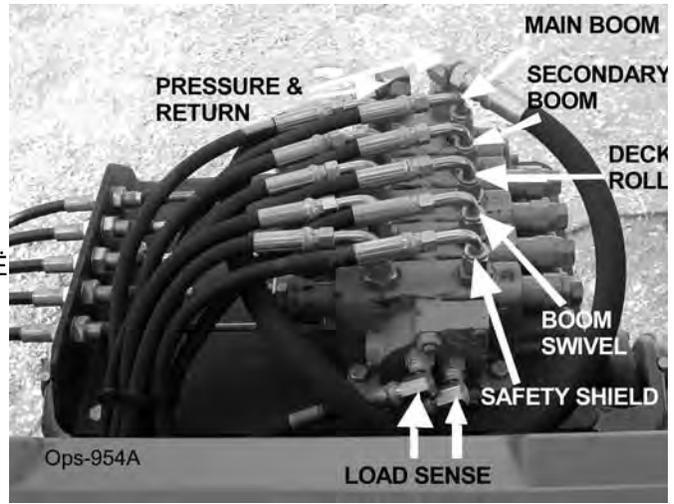


Diagram illustrating the hydraulic system components and their connections. Labels include: MAIN BOOM, SECONDARY BOOM, DECK ROLL, BOOM SWIVEL, SAFETY SHIELD, and LOAD SENSE. The diagram shows the flow of hydraulic fluid through various hoses and valves.



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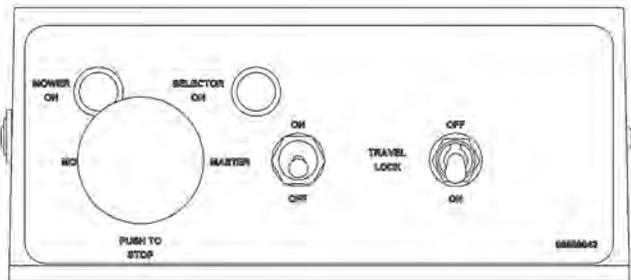
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# CD9F5HCB

CD9F5HCB

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DANGER

**SAFETY SHIELD & DEFLECTOR OPERATION**

<p style="text-align: center; font-weight: bold;">SAFETY SHIELD</p> <p style="text-align: center; font-weight: bold;">DEFLECTOR</p>	<ul style="list-style-type: none"> <li>• 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.</li> </ul> <ol style="list-style-type: none"> <li>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.</li> <li>2. 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.</li> <li>3. Repair or replace Safety Shield and Deflectors as needed.</li> <li>4. Always transport with Safety Shield and Deflector closed.</li> </ol>
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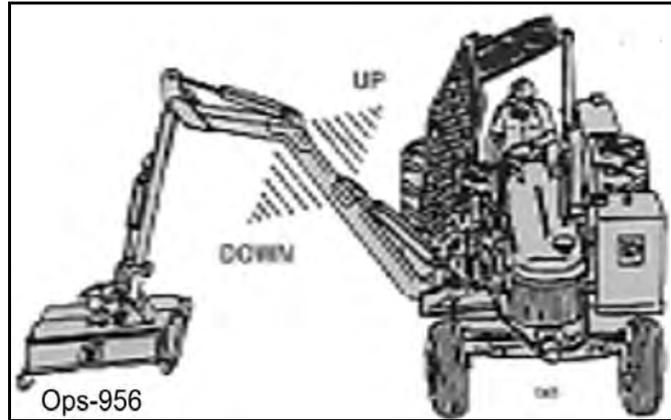
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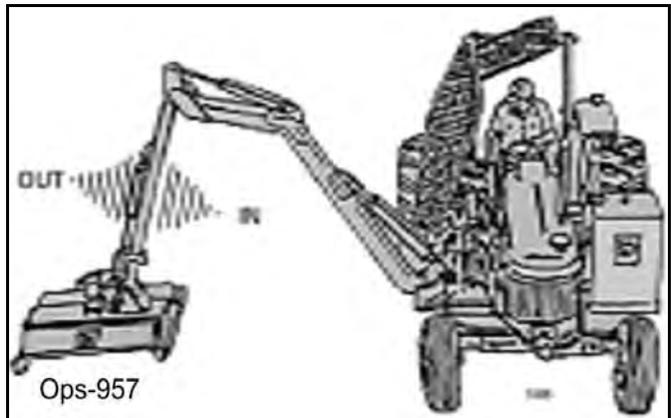
# CD9F5HCB

CD9F5HCB

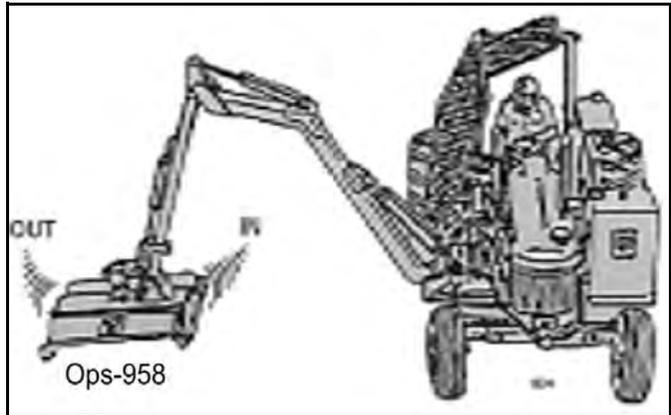
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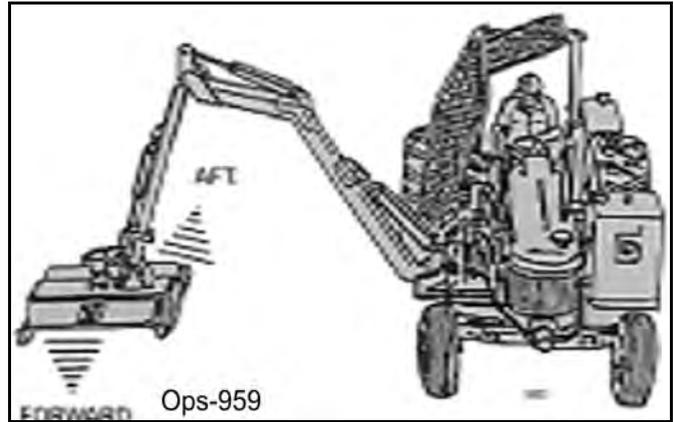
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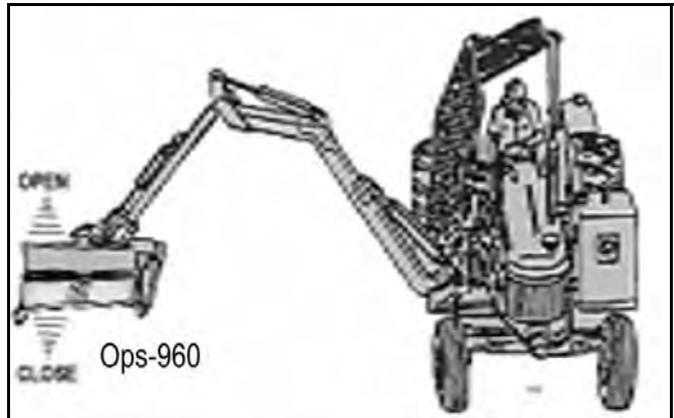
# CD9F5 HCB

CD9F5 HCB

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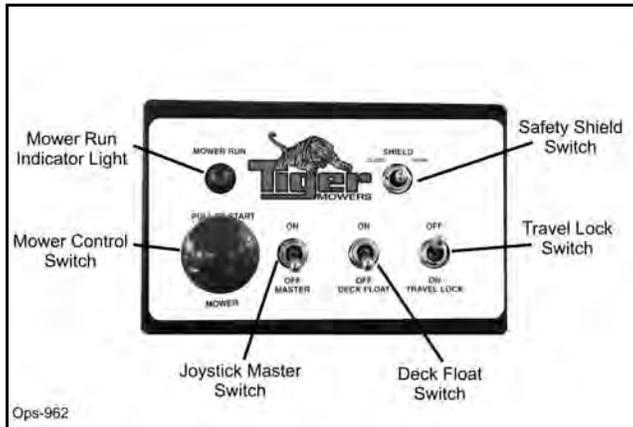


# CD9F5HCB

CD9F5HCB

## Control Panel

The control panel is located on the left side of the mower deck. It contains the following controls:



The control panel is used to operate the mower. The Mower Control Switch is used to start and stop the mower. The Joystick Master Switch is used to control the direction of travel. The Safety Shield Switch is used to engage the safety shield. The Travel Lock Switch is used to lock the travel controls. The Deck Float Switch is used to control the deck height.

**! DANGER**

**SAFETY SHIELD OPERATION**

• Failure to close Safety Shield may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.

1. Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact with the Blades if persons are in the area.
2. Before cutting brush, trimming limbs, or other such operations, raise Safety Shield fully to allow the blades to contact the material if area is clear of passersby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area.
3. Repair or replace Safety Shield as needed.
4. Always transport with Safety Shield closed. Ops-963

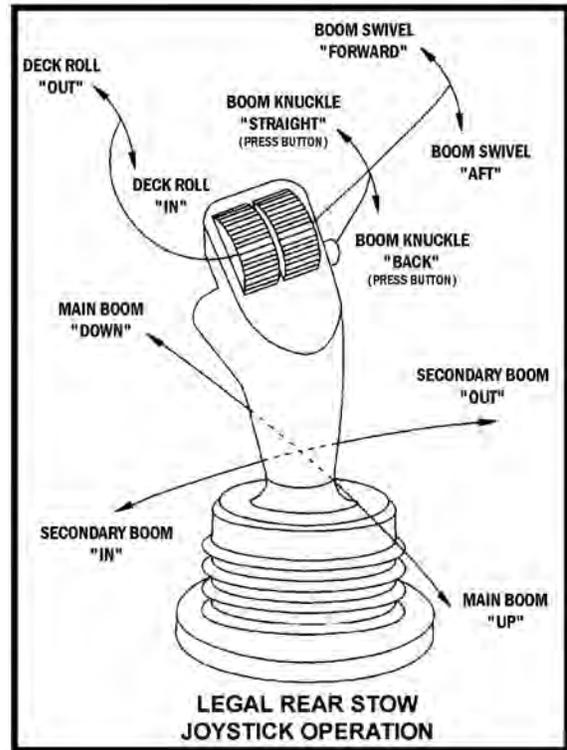
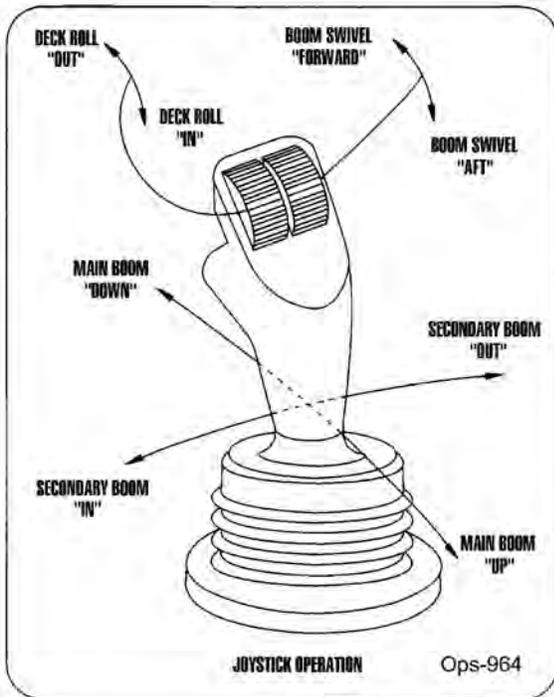
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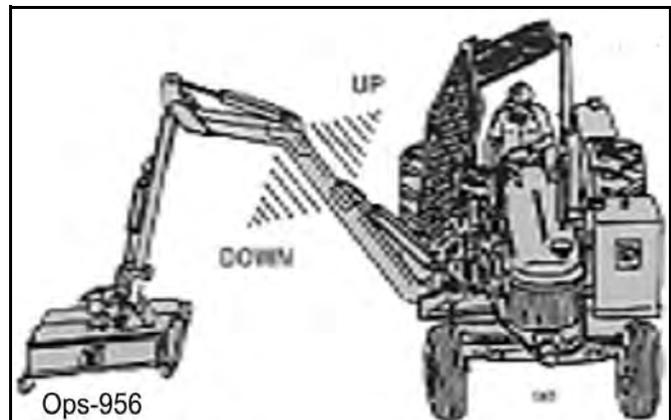
# CD9 F5 HCB

CD9 F5 HCB

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# CD9F5HCB

CD9F5HCB

## 1. On-Off Switch

1. On-Off Switch  
 The On-Off Switch is used to start the engine. It is located on the dashboard of the tractor. To start the engine, turn the key to the 'ON' position and then press the start button. The engine will start and the tractor will be ready to use.



2. PTO (Power Take-Off) Switch  
 The PTO Switch is used to engage the PTO. It is located on the side of the tractor. To engage the PTO, turn the key to the 'ON' position and then press the PTO button. The PTO will engage and the tractor will be ready to use.



3. PTO (Power Take-Off) Switch  
 The PTO Switch is used to engage the PTO. It is located on the side of the tractor. To engage the PTO, turn the key to the 'ON' position and then press the PTO button. The PTO will engage and the tractor will be ready to use.

1. On-Off Switch





# CD9F5HCB

CD9F5HCB

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Op - 46

**⚠️ DANGER**

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Op-47

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# CD9F5HCB

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Op - 48

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# MAINTENANCE SECTION

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# MAINTENANCE

**MAINTENANCE**

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## WEEKLY OR EVERY 40 HOURS

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## MONTHLY OR EVERY 150 HOURS

**ITEM**

**SERVICE**

**COMMENTS**

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## YEARLY OR EVERY 500 HOURS

**ITEM**

**SERVICE**

**COMMENTS**

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**10 micron filterD**

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# MAINTENANCE

MAINTENANCE

| Torque for Standard Fasteners |                  |                                                                                           |            |           |                                                                                           |            |            |                                                                                           |            |            |                                                                                             |            |            |
|-------------------------------|------------------|-------------------------------------------------------------------------------------------|------------|-----------|-------------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------------------------|------------|------------|
| Nominal Dia.<br>(in.)         | threads per inch |  Grade 2 |            |           |  Grade 5 |            |            |  Grade 8 |            |            |  Grade 9 |            |            |
|                               |                  | Tightening Torque                                                                         |            |           | Tightening Torque                                                                         |            |            | Tightening Torque                                                                         |            |            | Tightening Torque                                                                           |            |            |
|                               |                  | Lubed                                                                                     | Dry Plated | Dry plain | Lubed                                                                                     | Dry Plated | Dry plain  | Lubed                                                                                     | Dry Plated | Dry plain  | Lubed                                                                                       | Dry Plated | Dry plain  |
|                               |                  | K = 0.15                                                                                  | K = 0.17   | K = 0.20  | K = 0.15                                                                                  | K = 0.17   | K = 0.20   | K = 0.15                                                                                  | K = 0.17   | K = 0.20   | K = 0.15                                                                                    | K = 0.17   | K = 0.20   |
| Unified Coarse Thread Series  |                  |                                                                                           |            |           |                                                                                           |            |            |                                                                                           |            |            |                                                                                             |            |            |
| 1/4                           | 20               | 49 in-lbs                                                                                 | 59 in-lbs  | 66 in-lbs | 76 in-lbs                                                                                 | 86 in-lbs  | 101 in-lbs | 107 in-lbs                                                                                | 122 in-lbs | 143 in-lbs | 126 in-lbs                                                                                  | 143 in-lbs | 168 in-lbs |
| 5/16                          | 18               | 101                                                                                       | 122        | 135       | 157                                                                                       | 178        | 209        | 221                                                                                       | 251        | 295        | 259                                                                                         | 294        | 346        |
| 3/8                           | 16               | 15 ft-lbs                                                                                 | 18 ft-lbs  | 20 ft-lbs | 23 ft-lbs                                                                                 | 26 ft-lbs  | 31 ft-lbs  | 33 ft-lbs                                                                                 | 37 ft-lbs  | 44 ft-lbs  | 39 ft-lbs                                                                                   | 43 ft-lbs  | 51 ft-lbs  |
| 7/16                          | 14               | 24                                                                                        | 29         | 32        | 37                                                                                        | 42         | 49         | 52                                                                                        | 59         | 70         | 61                                                                                          | 70         | 82         |
| 1/2                           | 13               | 37                                                                                        | 44         | 49        | 57                                                                                        | 64         | 75         | 80                                                                                        | 90         | 106        | 94                                                                                          | 106        | 125        |
| 9/16                          | 12               | 53                                                                                        | 63         | 70        | 82                                                                                        | 92         | 109        | 115                                                                                       | 130        | 154        | 135                                                                                         | 153        | 180        |
| 5/8                           | 11               | 73                                                                                        | 87         | 97        | 113                                                                                       | 128        | 150        | 159                                                                                       | 180        | 212        | 186                                                                                         | 211        | 248        |
| 3/4                           | 10               | 129                                                                                       | 155        | 172       | 200                                                                                       | 227        | 267        | 282                                                                                       | 320        | 376        | 331                                                                                         | 375        | 441        |
| 7/8                           | 9                | 125                                                                                       | 150        | 167       | 322                                                                                       | 365        | 429        | 455                                                                                       | 515        | 606        | 533                                                                                         | 604        | 710        |
| 1                             | 8                | 187                                                                                       | 225        | 250       | 483                                                                                       | 547        | 644        | 681                                                                                       | 772        | 909        | 799                                                                                         | 905        | 1065       |
| 1 1/8                         | 7                | 266                                                                                       | 319        | 354       | 596                                                                                       | 675        | 794        | 836                                                                                       | 966        | 1132       | 995                                                                                         | 1132       | 1333       |
| 1 1/4                         | 7                | 375                                                                                       | 450        | 500       | 840                                                                                       | 952        | 1121       | 1163                                                                                      | 1333       | 1545       | 1357                                                                                        | 1545       | 1810       |
| 1 1/2                         | 6                | 652                                                                                       | 783        | 869       | 1462                                                                                      | 1657       | 1950       | 2031                                                                                      | 2333       | 2712       | 2379                                                                                        | 2712       | 3206       |
| Fine Thread Series            |                  |                                                                                           |            |           |                                                                                           |            |            |                                                                                           |            |            |                                                                                             |            |            |
| 1/4                           | 28               | 56 in-lbs                                                                                 | 68 in-lbs  | 75 in-lbs | 87 in-lbs                                                                                 | 99 in-lbs  | 116 in-lbs | 123 in-lbs                                                                                | 139 in-lbs | 164 in-lbs | 144 in-lbs                                                                                  | 163 in-lbs | 192 in-lbs |
| 5/16                          | 24               | 112                                                                                       | 135        | 150       | 174                                                                                       | 197        | 231        | 245                                                                                       | 278        | 327        | 287                                                                                         | 325        | 383        |
| 3/8                           | 24               | 17 ft-lbs                                                                                 | 20 ft-lbs  | 23 ft-lbs | 26 ft-lbs                                                                                 | 30 ft-lbs  | 35 ft-lbs  | 37 ft-lbs                                                                                 | 42 ft-lbs  | 49 ft-lbs  | 43 ft-lbs                                                                                   | 49 ft-lbs  | 58 ft-lbs  |
| 7/16                          | 20               | 27                                                                                        | 32         | 36        | 41                                                                                        | 47         | 55         | 58                                                                                        | 66         | 78         | 68                                                                                          | 78         | 91         |
| 1/2                           | 20               | 41                                                                                        | 49         | 55        | 64                                                                                        | 72         | 85         | 90                                                                                        | 102        | 120        | 105                                                                                         | 120        | 141        |
| 9/16                          | 18               | 59                                                                                        | 71         | 78        | 91                                                                                        | 103        | 121        | 128                                                                                       | 146        | 171        | 151                                                                                         | 171        | 201        |
| 5/8                           | 18               | 82                                                                                        | 99         | 110       | 127                                                                                       | 144        | 170        | 180                                                                                       | 204        | 240        | 211                                                                                         | 239        | 281        |
| 3/4                           | 16               | 144                                                                                       | 173        | 192       | 223                                                                                       | 253        | 297        | 315                                                                                       | 357        | 420        | 369                                                                                         | 418        | 492        |
| 7/8                           | 14               | 138                                                                                       | 165        | 184       | 365                                                                                       | 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; K = 0.17 for zinc plated and dry conditions; K = 0.20 for plain and dry conditions. D = Nominal Diameter; F = Clamp Load. Torque values calculated from formula T=KDF, where

| Torque-Tension Relationship for Metric Fasteners |       |                   |            |           |                   |            |           |                   |            |           |                   |           |  |
|--------------------------------------------------|-------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|-----------|--|
| Nominal Dia.<br>(mm)                             | Pitch | Class 4.6         |            |           | Class 8.8         |            |           | Class 10.9        |            |           | Class 12.9        |           |  |
|                                                  |       | Tightening Torque |            |           | Tightening Torque |            |           | Tightening Torque |            |           | Tightening Torque |           |  |
|                                                  |       | Lubed             | Dry Plated | Dry plain | Lubed             | Dry Plated | Dry plain | Lubed             | Dry Plated | Dry plain | Lubed             | Dry plain |  |
|                                                  |       | 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  |  |
| 3                                                | 0.5   | 0.28              | 0.32       | 0.38      | 0.73              | 0.82       | 0.97      | 1.0               | 1.2        | 1.4       | 1.2               | 1.8       |  |
| 3.5                                              | 0.6   | 0.44              | 0.50       | 0.59      | 1.1               | 1.3        | 1.5       | 1.6               | 1.9        | 2.2       | 1.9               | 2.5       |  |
| 4                                                | 0.7   | 0.66              | 0.74       | 0.87      | 1.7               | 1.9        | 2.3       | 2.4               | 2.7        | 3.2       | 2.8               | 3.8       |  |
| 5                                                | 0.8   | 1.3               | 1.5        | 1.8       | 3.4               | 3.9        | 4.5       | 4.9               | 5.5        | 6.5       | 5.7               | 7.6       |  |
| 6                                                | 1     | 2.3               | 2.6        | 3.0       | 5.8               | 6.6        | 7.7       | 8.3               | 9.4        | 11        | 9.7               | 13        |  |
| 6                                                | 1.25  | 2.1               | 2.3        | 2.7       | 5.3               | 6.0        | 7.0       | 7.6               | 8.6        | 10        | 8.8               | 12        |  |
| 7                                                | 1     | 3.8               | 4.3        | 5.0       | 9.7               | 11         | 13        | 14                | 16         | 19        | 16                | 22        |  |
| 8                                                | 1     | 5.9               | 6.6        | 7.8       | 15                | 17         | 20        | 22                | 24         | 29        | 25                | 34        |  |
| 8                                                | 1.25  | 5.5               | 6.2        | 7.3       | 14                | 16         | 19        | 20                | 23         | 27        | 24                | 31        |  |
| 10                                               | 1.25  | 11                | 13         | 15        | 29                | 33         | 39        | 42                | 48         | 56        | 49                | 66        |  |
| 10                                               | 1.5   | 11                | 12         | 14        | 28                | 32         | 37        | 40                | 45         | 53        | 47                | 62        |  |
| 12                                               | 1.25  | 21                | 23         | 28        | 53                | 60         | 71        | 76                | 86         | 101       | 89                | 119       |  |
| 12                                               | 1.5   | 20                | 22         | 26        | 51                | 58         | 68        | 73                | 82         | 97        | 85                | 113       |  |
| 12                                               | 1.75  | 19                | 21         | 25        | 49                | 55         | 65        | 70                | 79         | 93        | 81                | 108       |  |
| 14                                               | 1.25  | 26                | 29         | 34        | 66                | 75         | 89        | 95                | 108        | 127       | 111               | 148       |  |
| 14                                               | 1.5   | 28                | 32         | 37        | 72                | 82         | 96        | 103               | 117        | 138       | 121               | 161       |  |
| 14                                               | 2     | 30                | 34         | 40        | 78                | 88         | 104       | 111               | 126        | 148       | 130               | 173       |  |
| 16                                               | 1.5   | 50                | 57         | 67        | 129               | 146        | 171       | 184               | 208        | 245       | 215               | 287       |  |
| 16                                               | 2     | 47                | 53         | 62        | 121               | 137        | 161       | 173               | 196        | 230       | 202               | 269       |  |
| 18                                               | 1.5   | 73                | 82         | 97        | 187               | 212        | 249       | 268               | 303        | 357       | 313               | 417       |  |
| 18                                               | 2.5   | 65                | 73         | 86        | 167               | 189        | 222       | 239               | 270        | 318       | 279               | 372       |  |
| 20                                               | 1.5   | 101               | 115        | 135       | 270               | 306        | 360       | 374               | 424        | 498       | 437               | 583       |  |
| 20                                               | 2.5   | 91                | 104        | 122       | 238               | 267        | 314       | 337               | 382        | 449       | 394               | 525       |  |

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

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# MAINTENANCE

## LUBRICATION RECOMMENDATIONS

**MAINTENANCE**

| Description                                                         | Application    | General Specification                              | Recommended Mobil Lubricant             |
|---------------------------------------------------------------------|----------------|----------------------------------------------------|-----------------------------------------|
| Viædq  P^ â!æ  æ•Á                                                  | Û•^!ç[ ä       | RÖËËÖ<br>T ØÄ FFHÍ Ê FFI F<br>ØPT GÖFHÍ ÖÇØPGEFD   | T [ àã~ æÁ G                            |
| T [ , ^!P^ â!æ  æ•<br>Ö [  âÁ^ { } ^!æ  ^•Æ<br>ÛæðM                 | Û•^!ç[ ä       | ØUÁÍ ÁÇ æY ^æË , Á^ { }                            | T [ àãÖVÒFI T                           |
| P [   { æÁ^ { } ^!æ  ^•<br>F »ÁUæðM                                 | Û•^!ç[ ä       | RÖËËÖ<br>T ØÄ FFHÍ Ê FFI F<br>ØPÁT GÖFHÍ ÖÇØPGEFD  | T [ àã~ æÁ G Á                          |
| P [   { æÁ^ { } ^!æ  ^•Á<br>FÍ »ÁUæðM                               | Û•^!ç[ ä       | ØUÁÍ ÁÇ æY ^æ                                      | T [ àãÖVÒÁG                             |
| P ä @Á ] ^!æ * Á^ { } É<br>Öä [ ç^ÁÉ»Ø                              | Û•^!ç[ ä       | ØUÁÍ ÁÇ æY ^æ                                      | T [ àãÖVÒFI T                           |
| ØæÁUæÖ^æà [ ç<br>Û•^!ç[ ä                                           | Û•^!ç[ ä       | ÛÖUÁU^ } @æÁÖçd^ { ^<br>Û!^••  ^ÁÖ^æS^ à^          | T [ àãÁUPÖÁÍ Y ÈÉ<br>T [ àãÁU^ } @æÁÖ^æ |
| Ö^ ç^!ÁU @æBÁÖ [ ^ } á<br>Û [  ^!ÁU @æçD Ö^ }                       | Ö!^æ^<br>Ö^ }  | Šæ { Ö [ { }  ^ç<br>Öçd^ { ^ÁU!^••  ^<br>PŠÖÖUÁGE  | T [ àã^!^æ^ÁÖT ÈÛ                       |
| Ö!æÁU @æÖ [ ^ }  ^!<br>ÇæÁæ áÁU [ ç^D                               | Ö!^æ^<br>Ö^ }  | Šæ { Ö [ { }  ^ç<br>Öçd^ { ^ÁU!^••  ^<br>PŠÖÖUÁGE  | T [ àã^!^æ^ÁÖT ÈÛ                       |
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| Ö^ & ÁU ] ä^!Ç [ ç^D                                                | Ö!^æ^<br>Ö^ }  | Vä^!ÁU ] ä^!S^ à!æç c<br>] æç^ { à^!ÁÉ     ÉÉÉÉ    | T [ àãÖUPÖÁÇÉ                           |

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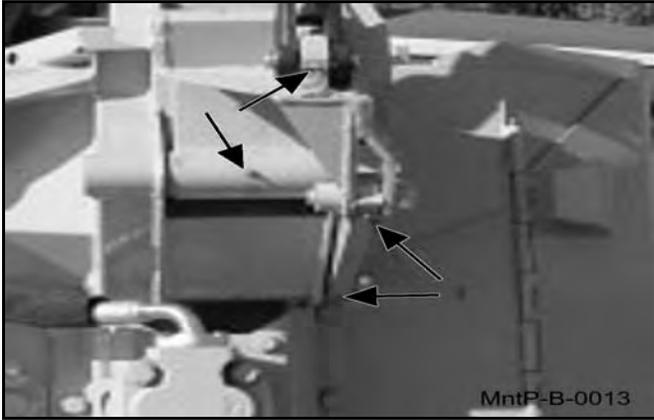


# MAINTENANCE

MAINTENANCE

## GREASING POINTS ON BOOM AND PIVOT

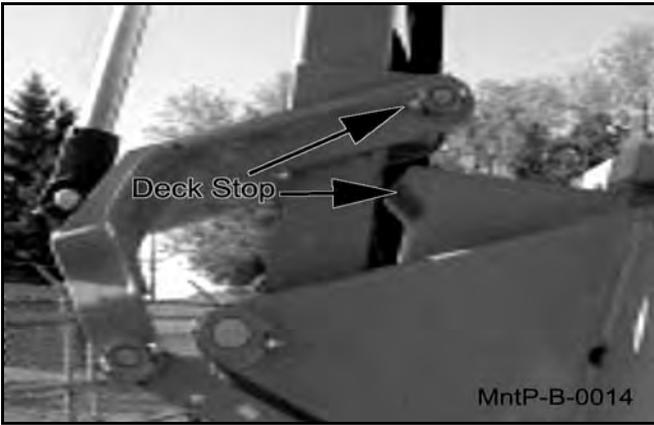
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MntP-B-0013

## DECK STOP ADJUSTMENT

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 à[ |óÁ Éœ} áÁ^} Á^&Á &^} q^ á^Á^ ~ óq Á^ ||Á^œ·} q̄} É  
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 œ} áÁœ @} Á[ & Á^ dÁ^!  
**NOTE: Bolt should not hit boom before cylinder reaches full travel.**



MntP-B-0014

## GREASING SPINDLE

Š[ &œ^Á!^æ^Á^œœ^\* Á} Áq·œÁ[ Á^&Áq^ ·q^ É  
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 ~} q̄Á] à!œœ ó, ^^}·Á[ ~ óÁ[ Á[ ] Á·} q^ á^Á^æ^  
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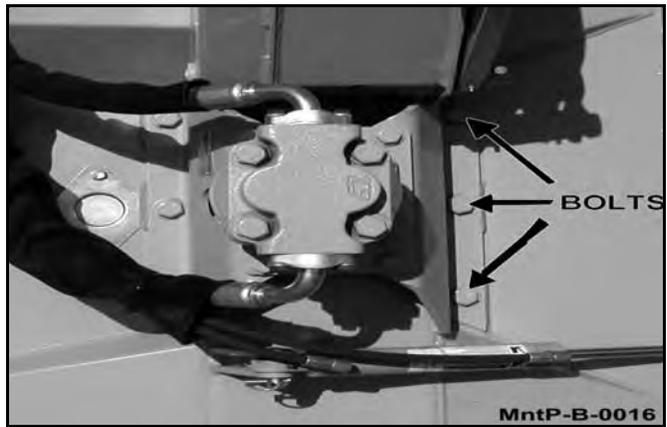
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# MAINTENANCE

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## TIGHTENING SPINDLE BOLTS

Verify that the spindle bolts are tightened to the correct torque. The spindle bolts are located on the rear of the spindle housing. See Figure 1 for the location of the spindle bolts.



## GREASING PUMP DRIVE SHAFT COUPLER

Apply grease to the pump drive shaft coupler. The coupler is located on the front of the pump housing. See Figure 2 for the location of the coupler. Apply grease to the coupler until the grease is visible at the top of the coupler. See Figure 3 for the correct amount of grease to apply.

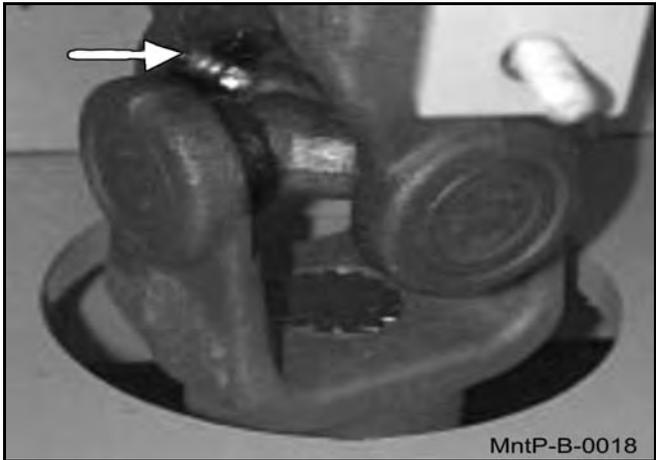


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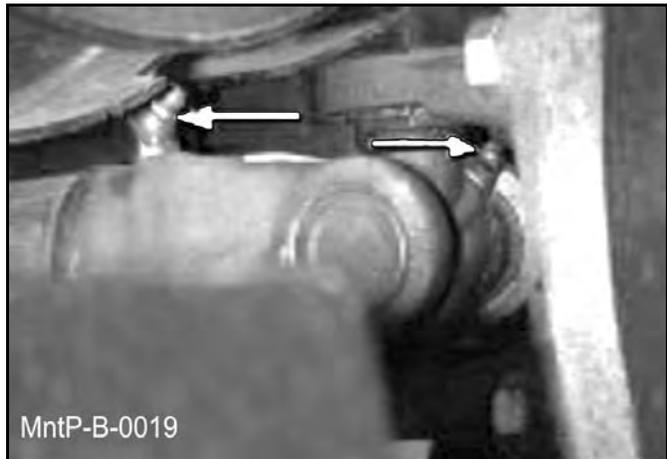
MAINTENANCE

## DRIVESHAFT YOKE, U-JOINT STUB SHAFT

Y 00A ^)\* q ^A .d]] ^aEa q b&A Sa@a { E0[ { ]|^c  
 ^cd^ ^A|^..~|^A|^ae^A&[ }-|{ q \*Aq ApSO@E0U  
 HGEA]^8aa@a} .A q A} q^i .aA q o A} aA|q A[\ ^  
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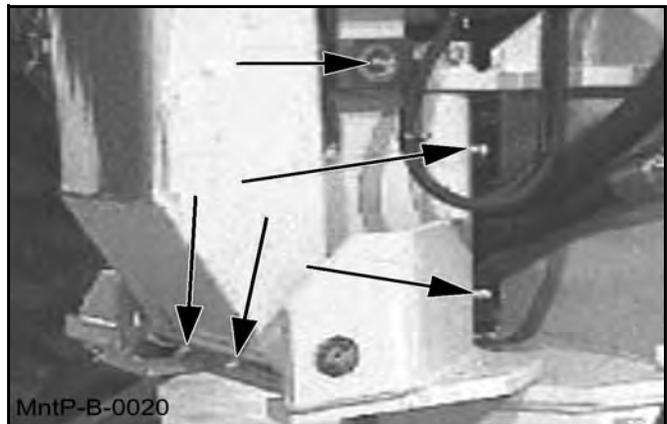
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MntP-B-0019

## GREASING THE BOOM SWIVEL

Š| &ae^A@a^A: ^|\ .A[ } A@a{ aA . q^|Aa[ . .Aq  
 a} |a@a|^D^A aA A[ [ { A} q[ aA[ . .AqAa } |a@a|^D  
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 &[ }-|{ q \*Aq ApSO@E0U^HGEA .]^8aa@a} A^} q  
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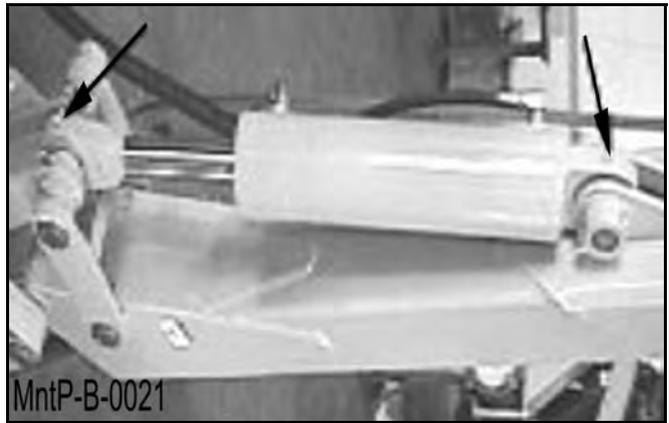
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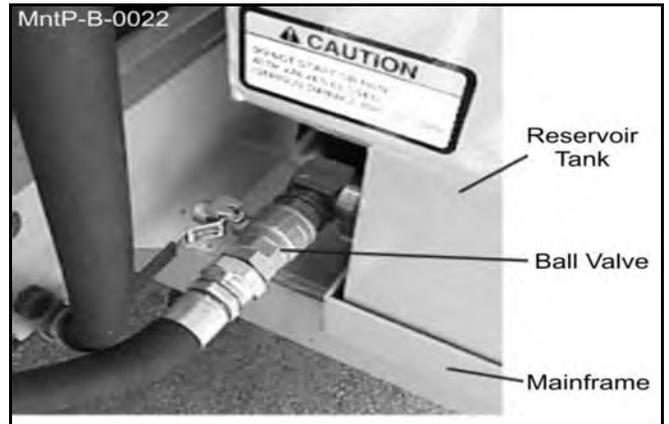
## GREASING BOOM CYLINDER(S) PIVOT POINTS

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## BALL VALVES

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 ]!| &^á^!^ • **THE BALL VALVES MUST BE OPEN**  
**(handle parallel with valve) WHEN TRACTOR IS**  
**RE-STARTED OR PUMP IS COUPLED TO**  
**MOTOR OR PTO!** Á@æ) !^Áđ Áá[ Á [ Á] Á!^• |ç  
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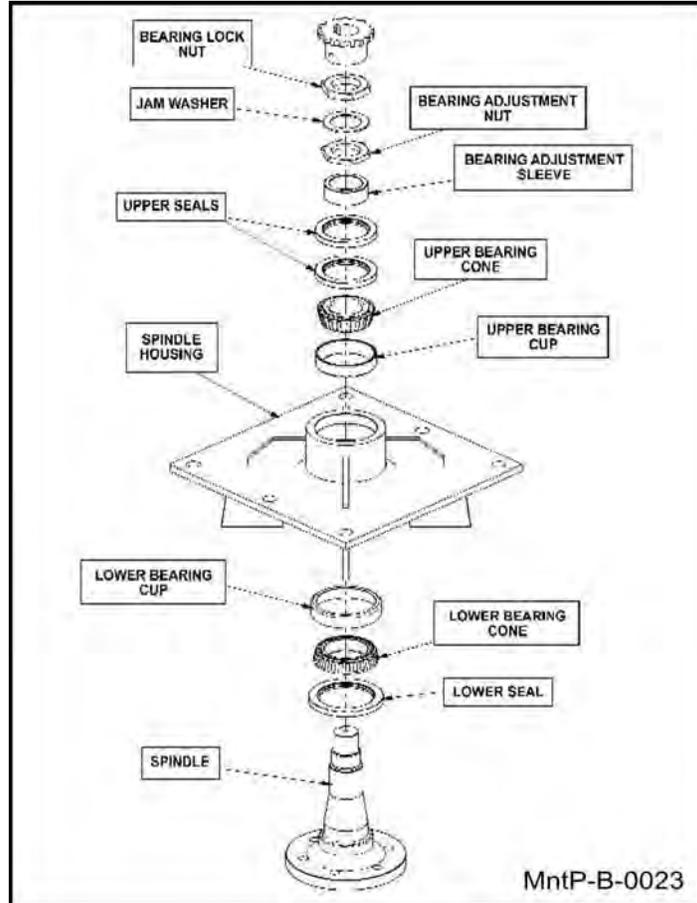


# MAINTENANCE

## THE SPINDLE ASSEMBLY

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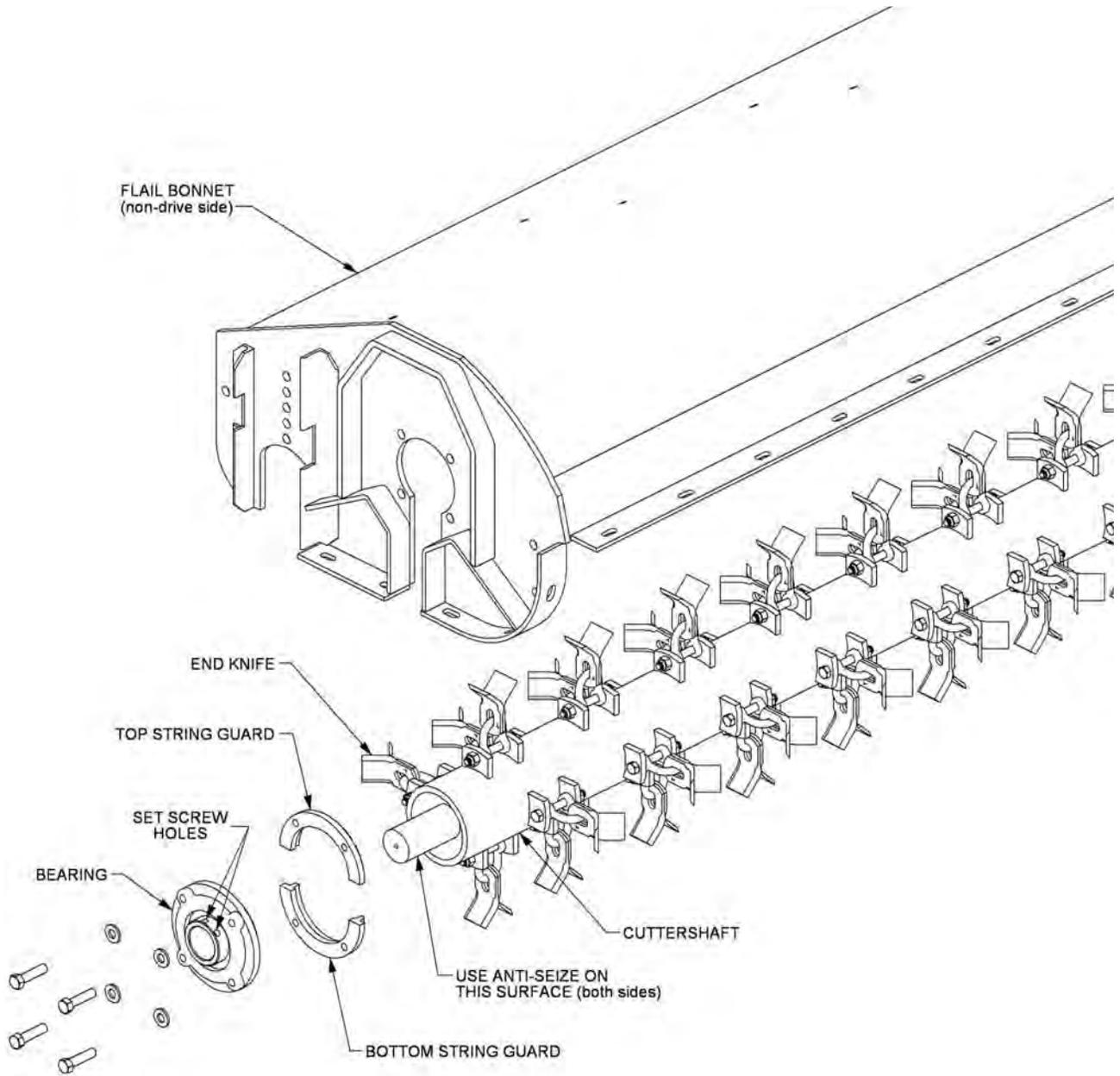






# MAINTENANCE

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## DAILY MAINTENANCE SCHEDULE

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~~~~~ ÁS} ă•KQ•]^ & ç!Á ă•ă \* Á!Ááç ă^áÁ} ă•É&ç} \*^ç ]lí-|ç^Á^ç Dáç Á^á^áÉ

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**PARTS SECTION**

# PART NAME INDEX

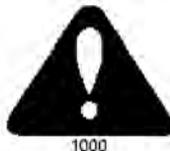
|                                            |    |
|--------------------------------------------|----|
| RCTVUQTFGT&I 'I W&G                        | 5  |
| VTCEVQT'O QWP V'MK                         | 6  |
| VTCEVQT'O QWP V'MK/'J [ FTCWN&U            | 8  |
| GNGEVTQP &'RTQRQTVKQP CN'N&V'XCNXG'O QWP V | :  |
| LQ[ UV&M'CP F 'UY K&EJ DQZ 'O QWP V        | 32 |
| DQO 'O QWP V'MK                            | 34 |
| DQO TGU'5/RQ& V'UVQY                       | 36 |
| P QVGL                                     | 37 |
| RQ[ ECTDQPCVG'UCHGV[ 'Y &F QY              | 38 |
| Y J GGN'Y GK J V/'5&'VKTGL                 | 3: |
| Y J GGN'Y GK J V/'5: &'VKTGL               | 3; |
| P QVGL'3                                   | 42 |

## PARTS ORDERING GUIDE

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

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

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

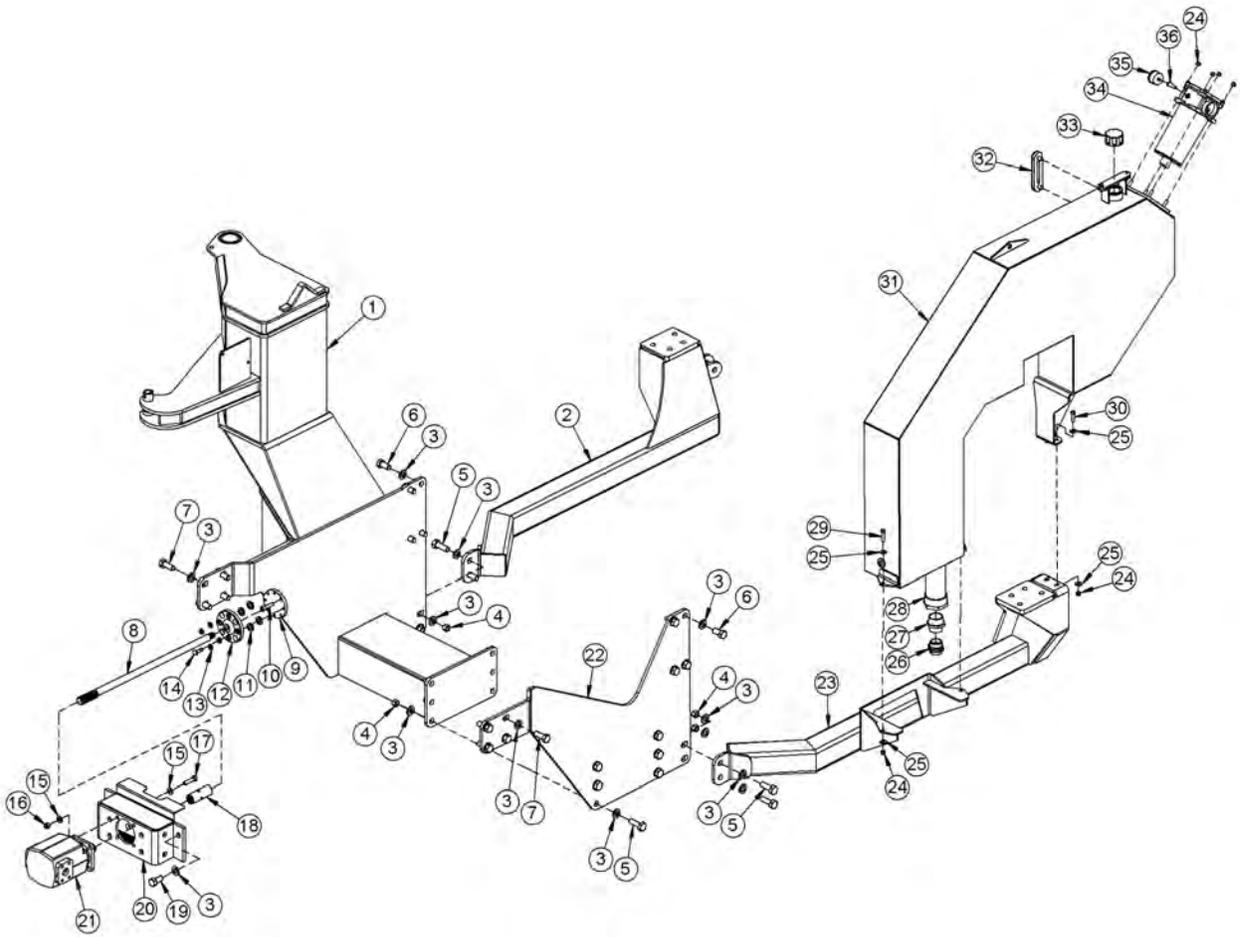


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

# TRACTOR MOUNT KIT

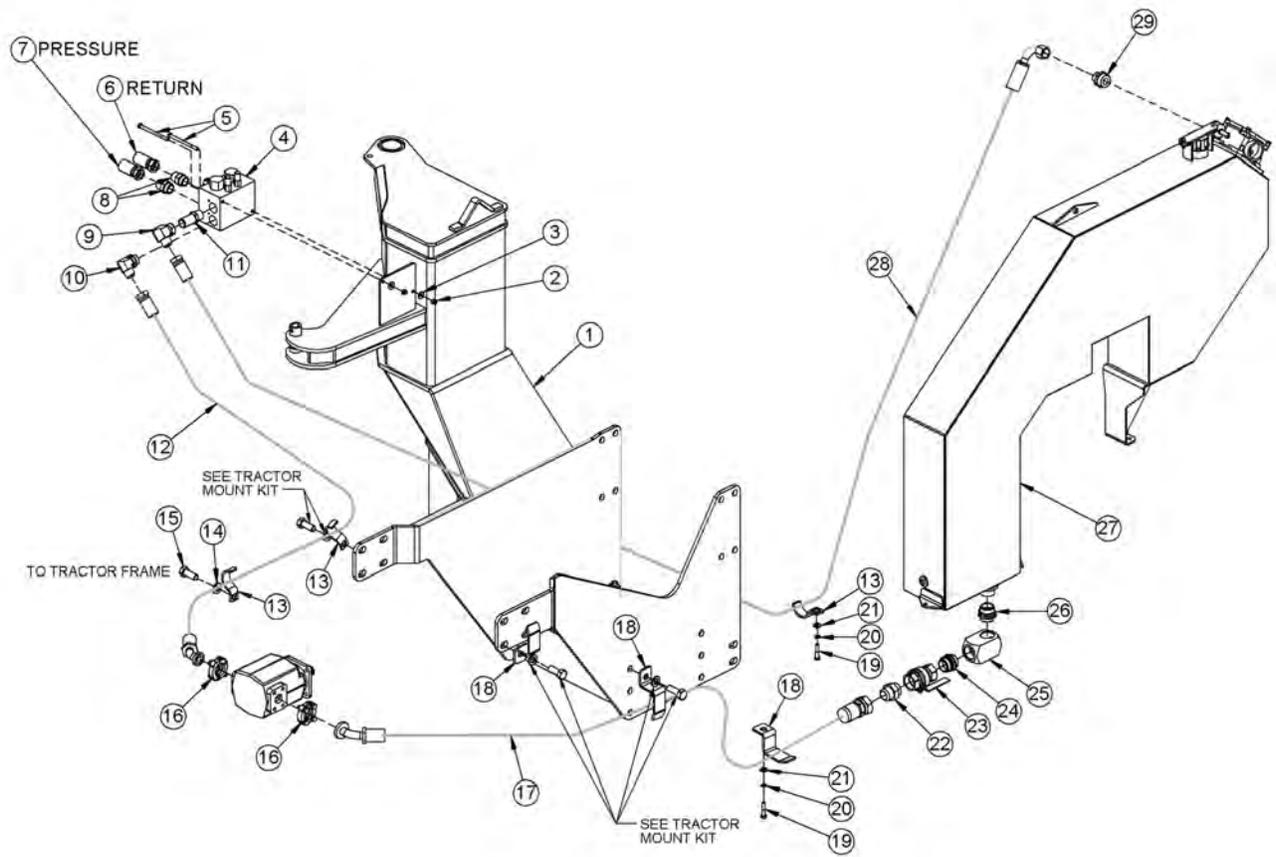


## TRACTOR MOUNT KIT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|---------------------------------|
| 1    | 06300310 | 1    | MAIN FRAME                      |
| 2    | 06300311 | 1    | AXLE BRACE,RIGHT HAND           |
| 3    | 33880    | 42   | FLATWASHER,3/4",SAE             |
| 4    | 21825    | 10   | HEX NUT,3/4",NC                 |
| 5    | 21833    | 10   | CAPSCREW,3/4" X 2-1/4",NC       |
| 6    | 24860    | 8    | CAPSCREW,20MM X 40MM,2.5P       |
| 7    | 31731    | 8    | CAPSCREW,20MM X 50MM,2.5P       |
| 8    | 06420171 | 1    | DRIVESHAFT                      |
| 9    | 06420006 | 1    | SPACER,DRIVESHAFT               |
| 10   | 06530504 | 4    | CAPSCREW,12MM X 45MM,1.75P      |
| 11   | 06537004 | 4    | WASHER,NEOPRENE                 |
| 12   | 6T0689   | 1    | KIT,CRNKSHFT ADPT,IHC 885       |
| ---  | 31674    | 1    | CRANKSHAFT ADAPTER              |
| 13   | 24937    | 4    | FLATWASHER,7/16",SAE            |
| 14   | 06535000 | 4    | CAPSCREW,7/16" X 1*-1/4",CUTOFF |
| 15   | 06533004 | 8    | FLATWASHER,1/2",SAE             |
| 16   | 21727    | 4    | NYLOCK NUT,1/2",NC              |
| 17   | 21733    | 4    | CAPSCREW,1/2" X 2",NC           |
| 18   | 6T0375B  | 1    | COUPLING                        |
| 19   | 24860    | 6    | CAPSCREW,20MM X 40MM,2.5P       |
| 20   | 34208    | 1    | PUMP MOUNTING BRACKET           |
| 21   | 23152    | 1    | PUMP                            |
| 22   | 06411798 | 1    | RISER                           |
| 23   | 06300312 | 1    | AXLE BRACE,LEFT HAND            |
| 24   | 21627    | 8    | NYLOCK NUT,3/8",NC              |
| 25   | 22016    | 8    | FLATWASHER,3/8"                 |
| 26   | 06503087 | 1    | ADAPTER,1-1/2" MOR X 1-1/2" MP  |
| 27   | 24047    | 1    | BUSHING,2MP X 1-1/2" FP         |
| 28   | 06505072 | 1    | FILTER,SUCTION                  |
| 29   | 21633    | 2    | CAPSCREW,3/8" X 1-3/4",NC       |
| 30   | 21632    | 2    | CAPSCREW,3/8" X 1-1/2",NC       |
| 31   | 06700202 | 1    | HYDRAULIC TANK ASSEMBLY         |
| ---  | 06380054 | 1    | WELDMENT,HYDRAULIC TANK         |
| 32   | 06505067 | 1    | SIGHT GAUGE                     |
| ---  | 06503175 | 1    | SEAL KIT,SIGHT GAUGE            |
| 33   | 35054    | 1    | BREATHER CAP                    |
| 34   | 06505044 | 1    | RETURN FILTER                   |
| ---  | 35259    | 1    | FILTER ELEMENT                  |
| 35   | 6T0649   | 1    | FILTER GAUGE                    |
| 36   | TF4888   | 1    | STREET ELBOW                    |

# TRACTOR MOUNT KIT - HYDRAULICS



## TRACTOR MOUNT KIT - HYDRAULICS

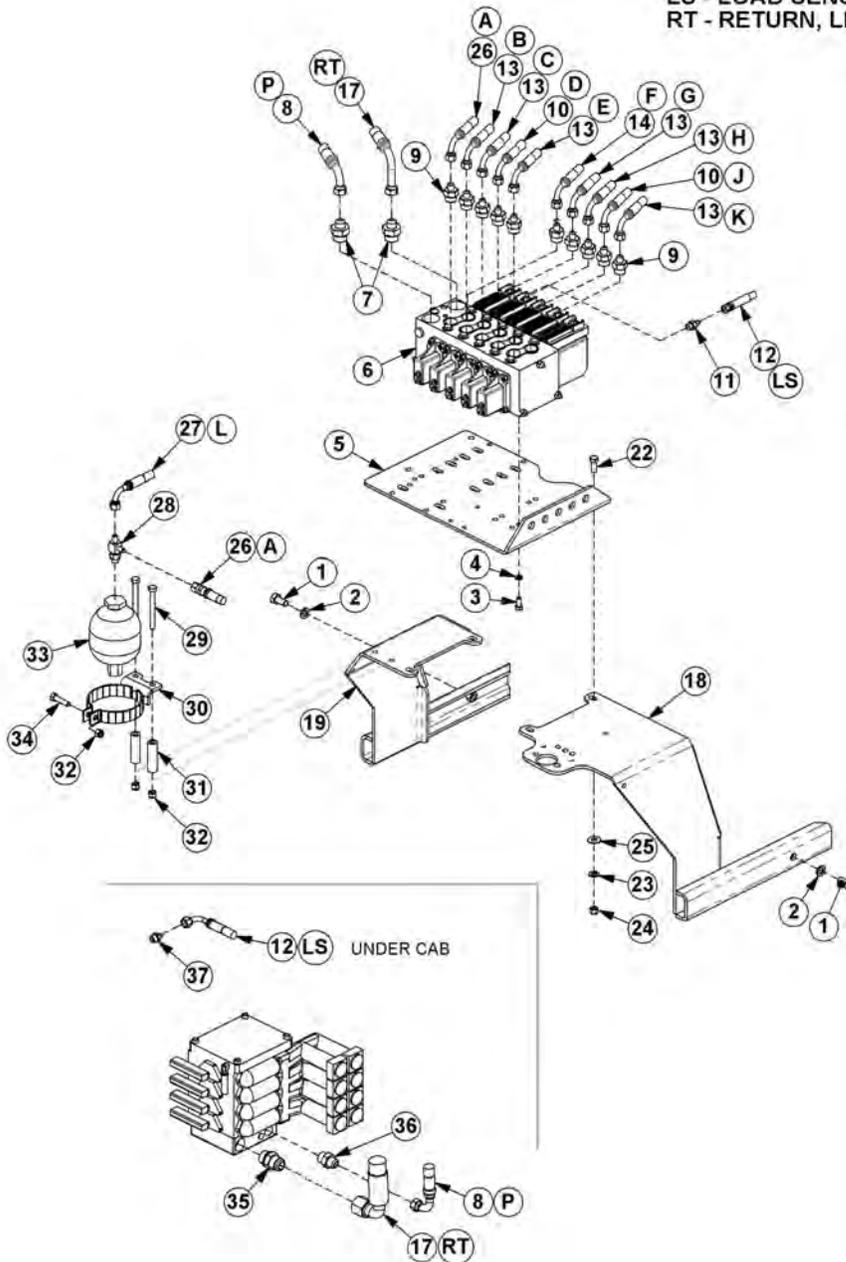
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| ITEM | PART NO. | QTY. | DESCRIPTION                                |
|------|----------|------|--------------------------------------------|
| 1    | -----    | -    | MAINFRAME *REFER TO TRACTOR MOUNT KIT      |
| 2    | 21627    | 2    | NYLOCK NUT,3/8",NC                         |
| 3    | 22016    | 2    | FLATWASHER,3/8"                            |
| 4    | 06510083 | 1    | BRAKE VALVE                                |
| 5    | 21644    | 2    | CAPSCREW,3/8" X 5",NC                      |
| 6    | 06500739 | 1    | HOSE,1" X 120" (RETURN)                    |
| 7    | 06500740 | 1    | HOSE,1" X 105" (PRESSURE)                  |
| 8    | 33555    | 2    | ADAPTER,1"MOR X 1"MJ                       |
| 9    | 33259    | 1    | ELBOW,1"FOR X 1"MJ                         |
| 10   | 34117    | 1    | ELBOW,1"MOR X 1"MJ                         |
| 11   | 32869    | 1    | NIPPLE,LONG,1"MOR X 1"MJ                   |
| 12   | 06500430 | 1    | HOSE,1" X 82"                              |
| 13   | TB3012   | 3    | HOSE CLAMP                                 |
| 14   | 33880    | 1    | FLATWASHER,3/4",SAE                        |
| 15   | 24860    | 1    | CAPSCREW,20MM X 40MM,2.5P                  |
| 16   | TF4852   | 2    | KIT,FLANGE,#20                             |
| 17   | 06500701 | 1    | HOSE,1-1/2" X 126"                         |
| 18   | 32382    | 3    | HOSE CLAMP                                 |
| 19   | 22254    | 2    | CAPSCREW,10MM X 50MM,1.25P                 |
| 20   | 32691    | 2    | LOCKWASHER,10MM                            |
| 21   | 32724    | 2    | FLATWASHER,10MM                            |
| 22   | 34710    | 1    | ADAPTER,1-1/2"MOR X 1-1/2"MJ               |
| 23   | 34309    | 1    | BALL VALVE,1-1/2"FOR                       |
| 24   | 06503083 | 1    | ADAPTER,1-1/2"MOR X 1-1/2"MOR              |
| 25   | 06503084 | 1    | ELBOW,1-1/2"FOR X 1-1/2"FOR                |
| 26   | 06503087 | 1    | ADAPTER,1-1/2"MOR X 1-1/2"MP               |
| 27   | -----    | -    | HYDRAULIC TANK *REFER TO TRACTOR MOUNT KIT |
| 28   | 34375    | 1    | HOSE,1" X 195"                             |
| 29   | 34064    | 1    | ADAPTER,1-1/2"MOR X 1"MJ                   |

# ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT

## HOSE ROUTING

- A - LIFT VALVE TO ACCUMULATOR
- B - TO SECONDARY CYLINDER GLAND
- C - TO DECK ROLL CYLINDER GLAND
- D - TO BOOM SWIVEL CYLINDER BUTT
- E - TO SAFETY SHIELD CYLINDER GLAND
- F - TO MAIN BOOM CYLINDER BUTT
- G - TO SECONDARY CYLINDER BUTT
- H - TO DECK ROLL CYLINDER BUTT
- J - TO BOOM SWIVEL CYLINDER GLAND
- K - TO SAFETY SHIELD CYLINDER BUTT
- L - TO MAIN BOOM CYLINDER GLAND
- P - PRESSURE FROM TRACTOR TO LIFT VALVE
- LS - LOAD SENSE, LIFT VALVE TO TRACTOR
- RT - RETURN, LIFT VALVE TO TRACTOR

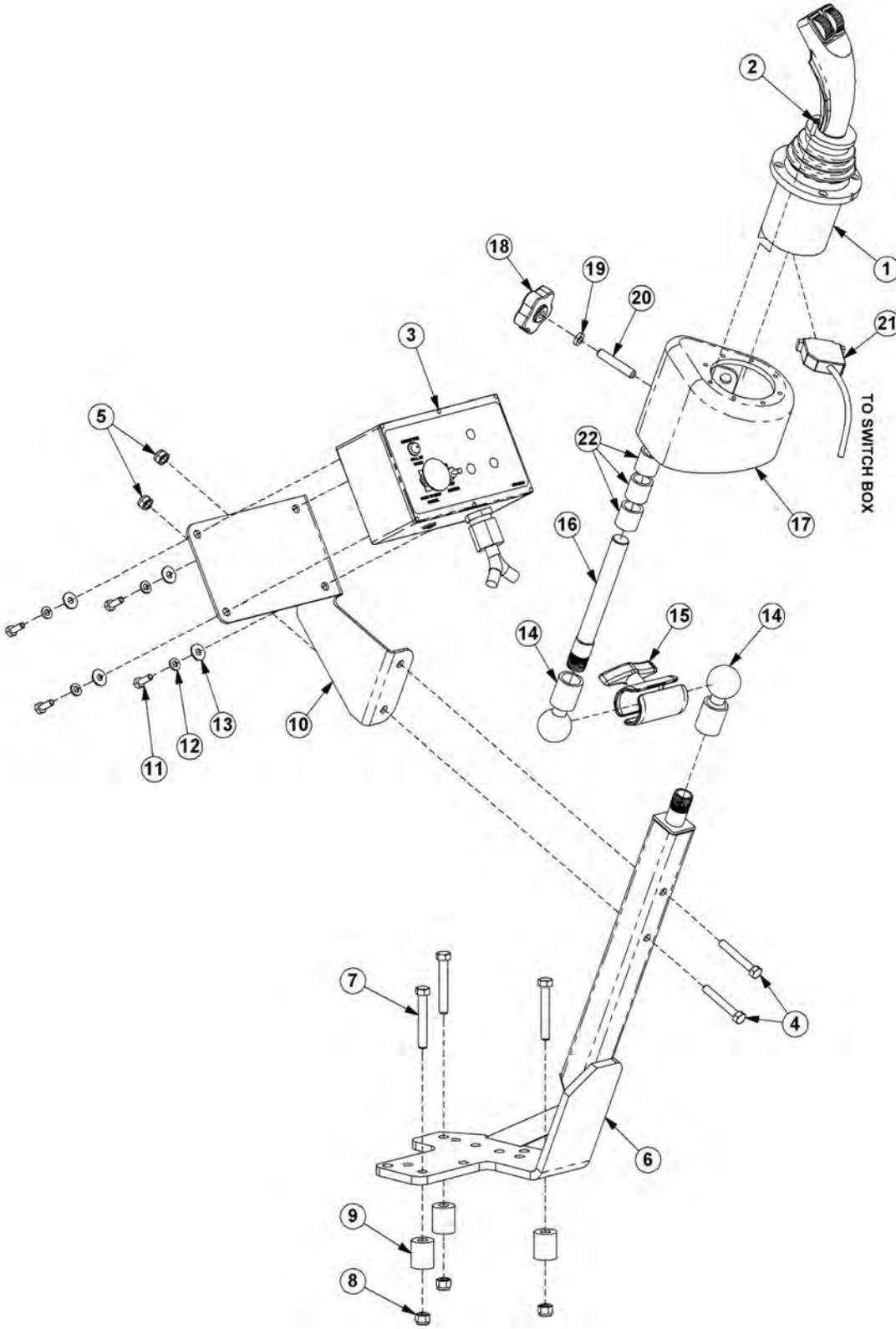


## ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                        |
|------|----------|------|------------------------------------|
| 1    | 21729    | 2    | CAPSCREW,1/2" X 1",NC              |
| 2    | 21990    | 2    | LOCKWASHER,1/2"                    |
| 3    | 21579    | 4    | CAPSCREW,5/16" X 3/4",NC           |
| 4    | 21987    | 4    | LOCKWASHER,5/16"                   |
| 5    | 34622    | 1    | PLATE,VALVE,REAR MNT               |
| 6    | 06502097 | 1    | VALVE,5SP                          |
| 7    | 33591    | 2    | ADAPTER,3/4"MOR X 1/2"MJ           |
| 8    | 34612    | 1    | HOSE,1/2" X 34" (PRESSURE)         |
| 9    | 32807    | 10   | ADAPTER,5/8"MORB X 3/8"MJ          |
| 10   | 06500149 | 2    | HOSE,1/4" X 220"                   |
| 11   | 33419    | 1    | ADAPTER,5/16"MOR X 1/4"MJ          |
| 12   | 06500270 | 1    | HOSE,1/4" X 12" (LOAD SENSE)       |
| 13   | 06500750 | 6    | HOSE,1/4" X 280"                   |
| 14   | 06500742 | 1    | HOSE,1/4" X 306"                   |
| 17   | 06500339 | 1    | HOSE,1/2" X 35" (RETURN)           |
| 18   | 06340008 | 1    | VLV MNT,RH                         |
| 19   | 06340009 | 1    | VLV MNT,LH                         |
| 22   | 21631    | 4    | CAPSCREW,3/8" X 1-1/4",NC          |
| 23   | 21988    | 4    | LOCKWASHER,3/8"                    |
| 24   | 21625    | 4    | HEX NUT,3/8",NC                    |
| 25   | 22016    | 4    | FLATWASHER,3/8"                    |
| 26   | 06500354 | 1    | HOSE,1/4" X 12"                    |
| 27   | 06500742 | 1    | HOSE,1/4" X 306"                   |
| 28   | 06503029 | 1    | ADAPTER,TEE                        |
| 29   | 21640    | 2    | CAPSCREW,3/8" X 3-1/2",NC          |
| 30   | 2389     | 1    | BRACKET,ACCUMULATOR                |
| 31   | 06420054 | 2    | SPACER                             |
| 32   | 21627    | 3    | NYLOCK NUT,3/8",NC                 |
| 33   | 24300    | 1    | ACCUMULATOR                        |
| 34   | 21632    | 1    | CAPSCREW,3/8" X 1-1/2",NC          |
| 35   | 06503012 | 1    | 27MM MOR X 3/4"MJ                  |
| 36   | 33463    | 1    | 22MM MOR X 1/2"MJ                  |
| 37   | -----    | -    | ADAPTER *EXISTING TRACTOR HARDWARE |

**JOYSTICK AND SWITCHBOX MOUNT**

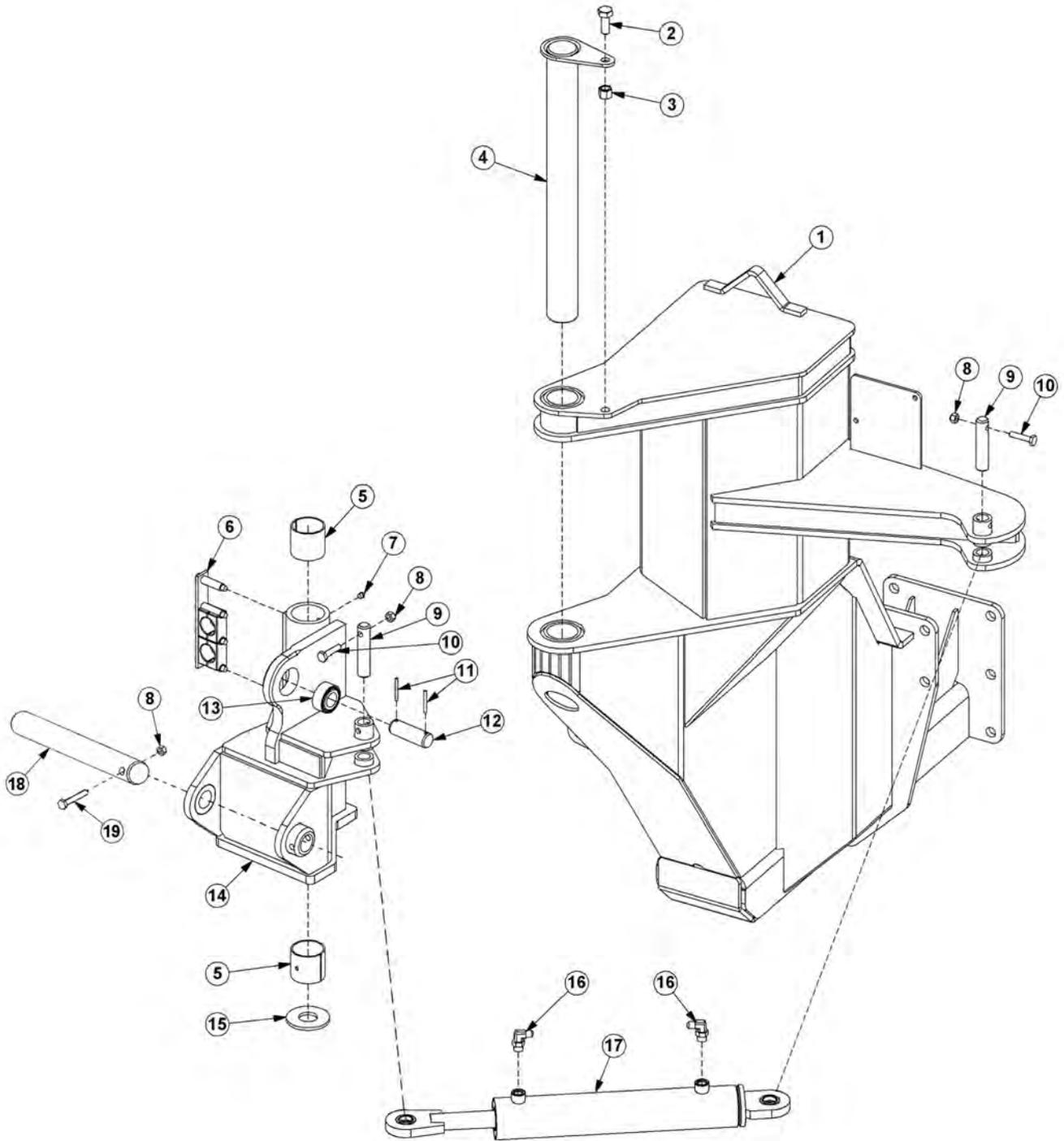


## JOYSTICK AND SWITCHBOX MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 1    | 33691    | 1    | JOYSTICK                          |
| 2    | 32829    | 4    | SCREW,MACHINE,10-32 X 3/4",FLATHD |
| 3    | 06510196 | 1    | SWITCH BOX,DF,SS,OS               |
| 4    | 21585    | 2    | CAPSCREW,5/16" X 2-1/4",NC        |
| 5    | 21577    | 2    | NYLOCK NUT,5/16",NC               |
| 6    | 06340011 | 1    | MNT,STND,JOYSTICK                 |
| 7    | 21639    | 3    | CAPSCREW,3/8" X 3-1/4",NC         |
| 8    | 21627    | 3    | NYLOCK NUT,3/8",NC                |
| 9    | 41794    | 3    | SPACER                            |
| 10   | 06340015 | 1    | SWITCH BOX MNT                    |
| 11   | 21529    | 4    | CAPSCREW,1/4" X 3/4",NC           |
| 12   | 21986    | 4    | LOCKWASHER,1/4"                   |
| 13   | 22014    | 4    | FLATWASHER,1/4"                   |
| 14   | 06520041 | 2    | MOUNT,RAM,BALL,1-1/2"             |
| 15   | 06520020 | 1    | MOUNT,RAM,ARM                     |
| 16   | 06340010 | 1    | ROD,1/2"NPT X 7"                  |
| 17   | 35033    | 1    | CAN,JOYSTICK,ASSY                 |
| 18   | 35204    | 1    | KNOB,3/8",NC,INSERT               |
| 19   | 35206    | 1    | HEX NUT,JAMB,3/8",NC              |
| 20   | 35205    | 1    | SETSCREW,3/8" X 2",NC,KNURLED     |
| 21   | 33693    | 1    | CBL,EXT,4FT,JOYSTICK              |
| 22   | 35256    | 3    | BUSHING,NYLON                     |

# BOOM MOUNT KIT

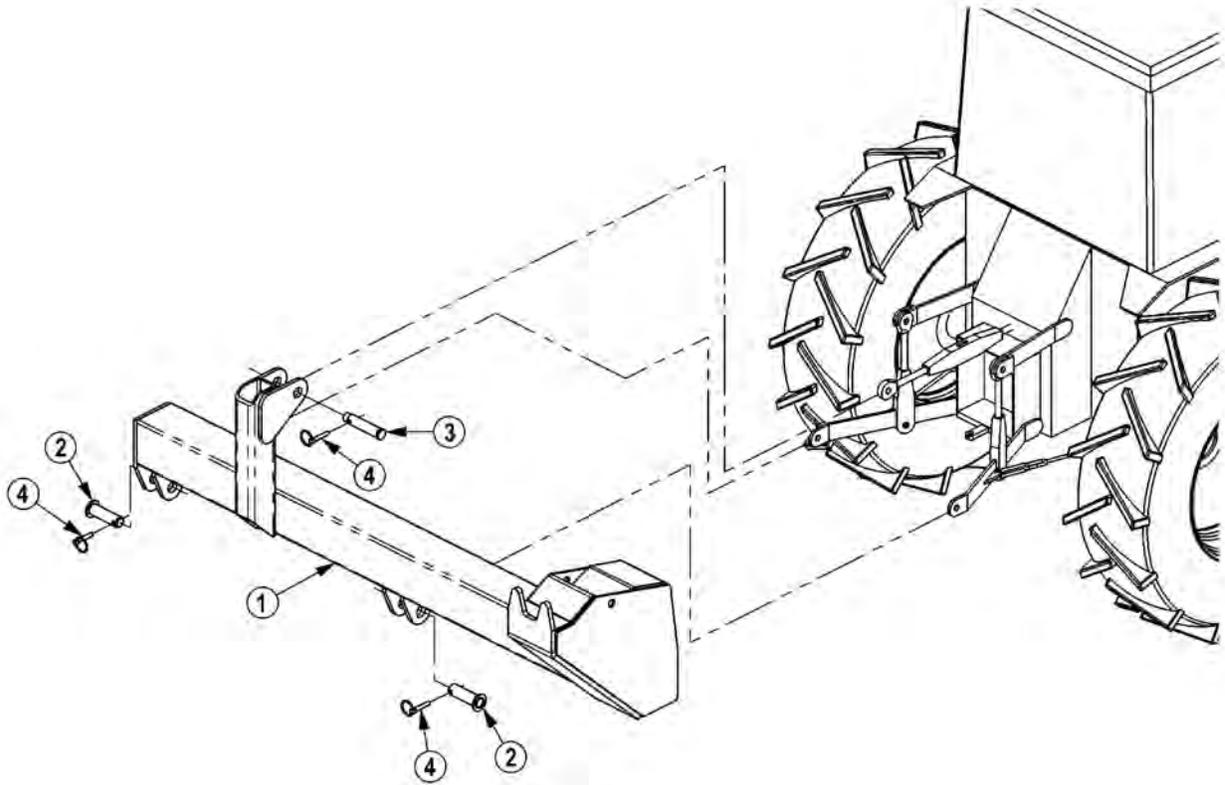


## BOOM MOUNT KIT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                           |
|------|----------|------|---------------------------------------|
| 1    | -----    | -    | MAINFRAME *REFER TO TRACTOR MOUNT KIT |
| 2    | 21782    | 1    | CAPSCREW,5/8" X 1-3/4",NC             |
| 3    | 21777    | 1    | NYLOCK NUT,5/8",NC                    |
| 4    | 32381    | 1    | PIN,CAPPED                            |
| 5    | 32322    | 2    | BUSHING                               |
| 6    | 06505185 | 1    | CLAMP KIT                             |
| 7    | 6T3211   | 2    | GREASE ZERK,1/8"NPT                   |
| 8    | 21677    | 3    | NYLOCK NUT,7/16",NC                   |
| 9    | 32380    | 2    | PIN,1"                                |
| 10   | 21683    | 2    | CAPSCREW,7/16" X 2",NC                |
| 11   | TB1023   | 2    | ROLL PIN                              |
| 12   | 06420100 | 1    | PIN,1-1/4"                            |
| 13   | -----    | -    | SPHERICAL BEARING *NOT FOR SALE       |
| 14   | 06700185 | 1    | SWIVEL ASSEMBLY                       |
| ---  | 06310150 | 1    | SWIVEL WELDMENT                       |
| 15   | 06520250 | 1    | BEARING,WASHER                        |
| 16   | 32810    | 2    | ADAPTER,ELBOW                         |
| 17   | 06501029 | 1    | CYLINDER,3" X 13.88"                  |
| 18   | 06420022 | 1    | PIN, 1/5" X 12"                       |
| 19   | 21688    | 1    | CAPSCREW, 7/16" X 3-1/4"              |

## BOOMREST 3-POINT STOW

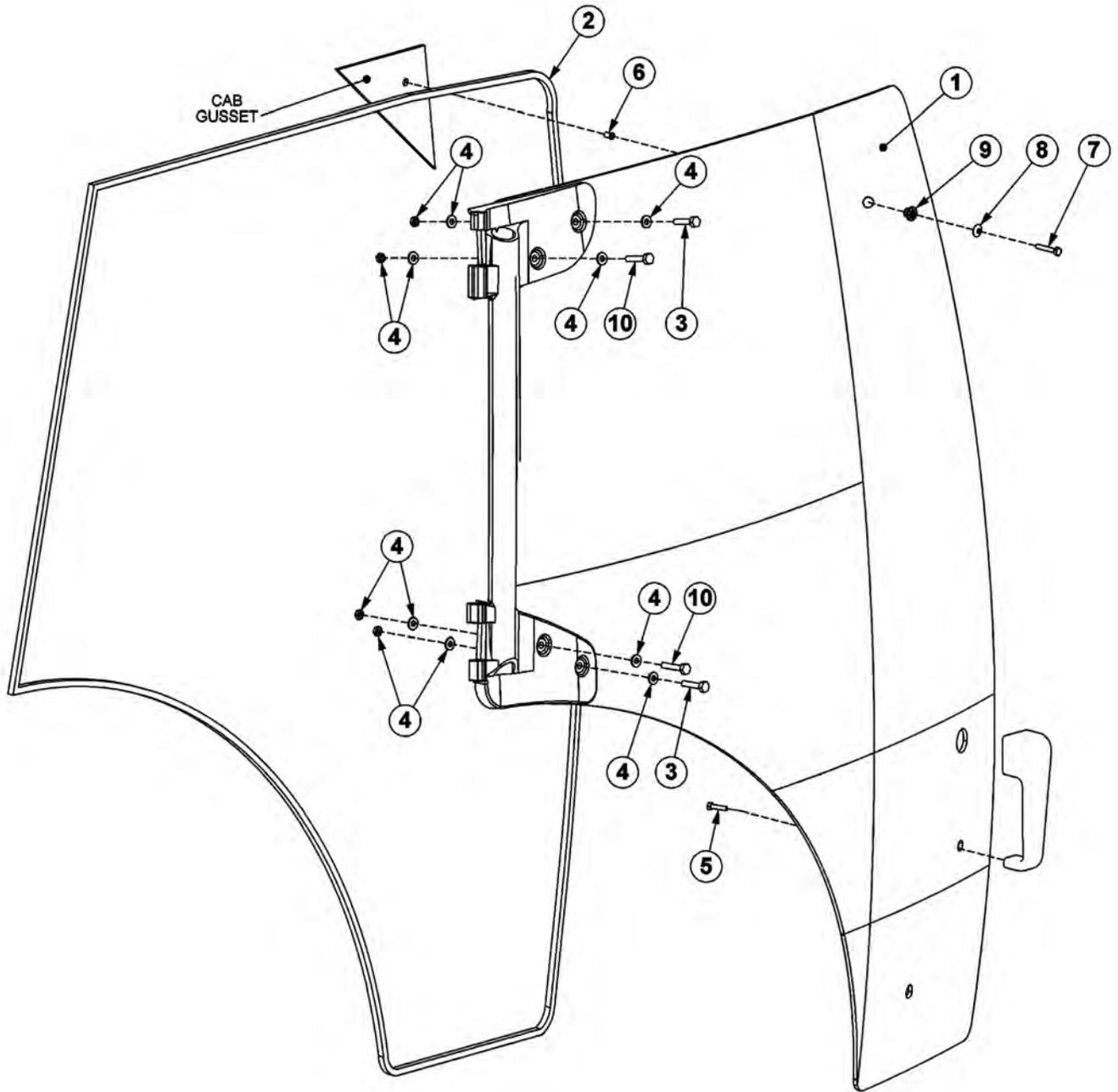


| ITEM | PART NO. | QTY. | DESCRIPTION                 |
|------|----------|------|-----------------------------|
| 1    | 06310023 | 1    | BOOMREST,STD,3PNT           |
| 2    | TF1120   | 2    | PIN,(CAPPED),1-1/8 X 3-7/8  |
| 3    | TB1036   | 1    | PIN,SEC BOOM SWIV 1X4-11/16 |
| 4    | TF1143   | 3    | PIN,LYNCH 7/16 X 2          |

**NOTES**

**NOTES**

# POLYCARBONATE SAFETY WINDOW

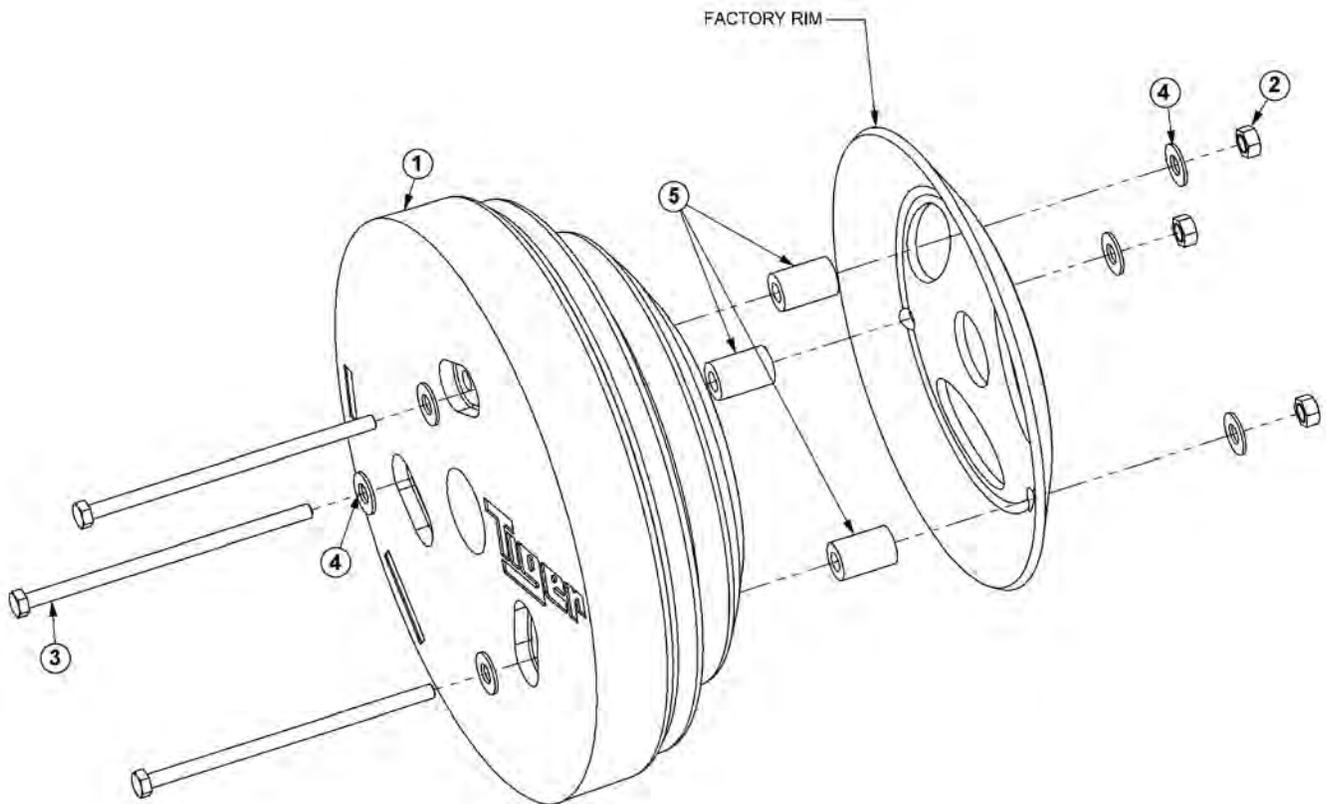


## POLYCARBONATE SAFETY WINDOW

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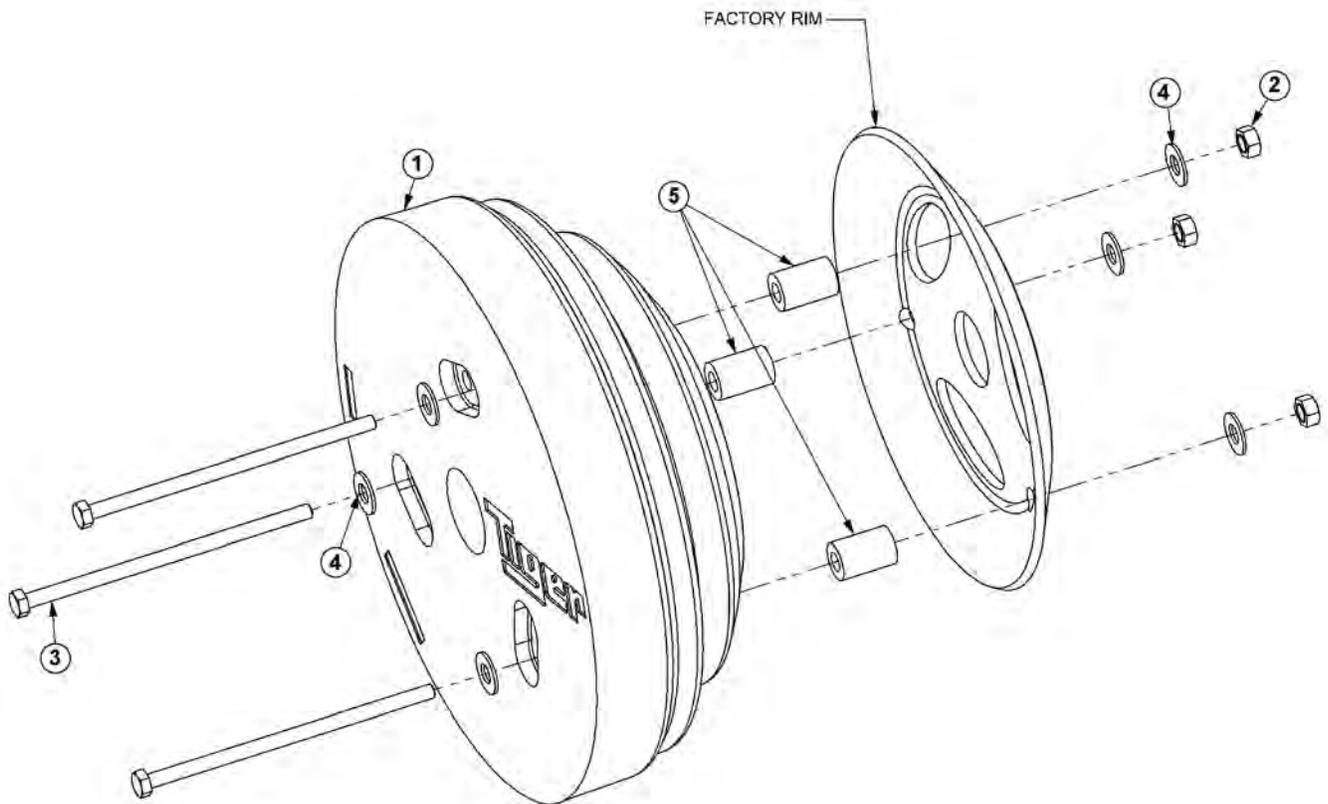
| ITEM | PART NO. | QTY. | DESCRIPTION                                 |
|------|----------|------|---------------------------------------------|
| 1    | 06490037 | 1    | POLYCARBONATE,DOOR,RH                       |
| 2    | 31965    | 17   | TRIM SEAL, 3/8"CLIP X 3/4"OD BULB (IN FEET) |
| 3    | 06530502 | 2    | CAPSCREW,8MM X 40MM,1.25P,GR8               |
| 4    | -----    | -    | EXISTING HARDWARE                           |
| 5    | 06530501 | 1    | CAPSCREW,6MM X 25MM,1.0P,GR8                |
| 6    | 06537006 | 1    | THREADED INSERT,1/4" X 1/2",NC              |
| 7    | 21532    | 1    | CAPSCREW,1/4" X 1-1/2",NC                   |
| 8    | 06537001 | 1    | WASHER RUBBERIZED                           |
| 9    | 35234    | 1    | GROMET,RIBBED,1/2"OD X 1/4"ID X 1/2"        |
| 10   | 6T2494   | 2    | CAPSCREW,8MM X 45MM,1.25P,GR8               |
| ---  | 06537005 | 1    | ADHESIVE,WTHR STRP (NOT SHOWN)              |

## WHEEL WEIGHT - 34IN TIRES



| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | 32517    | 1    | WHEEL WEIGHT, 1700#           |
| 2    | 06531000 | 3    | HEX NUT, 7/8", NC             |
| 3    | 06530213 | 3    | CAPSCREW, 7/8" X 16", NC, GR8 |
| 4    | 06533000 | 6    | FLATWASHER, 7/8"              |
| 5    | TB3278   | 3    | SPACER                        |

## WHEEL WEIGHT - 38IN TIRES



| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | 32517    | 1    | WHEEL WEIGHT, 1700#           |
| 2    | 06531000 | 3    | HEX NUT, 7/8", NC             |
| 3    | 06530213 | 3    | CAPSCREW, 7/8" X 16", NC, GR8 |
| 4    | 06533000 | 6    | FLATWASHER, 7/8"              |
| 5    | TB3278   | 3    | SPACER                        |

# NOTES

**PARTS SECTION**

# NOTES

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COMMON BENGAL T4

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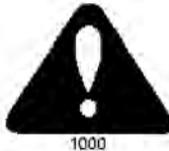
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## PARTS ORDERING GUIDE

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

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

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

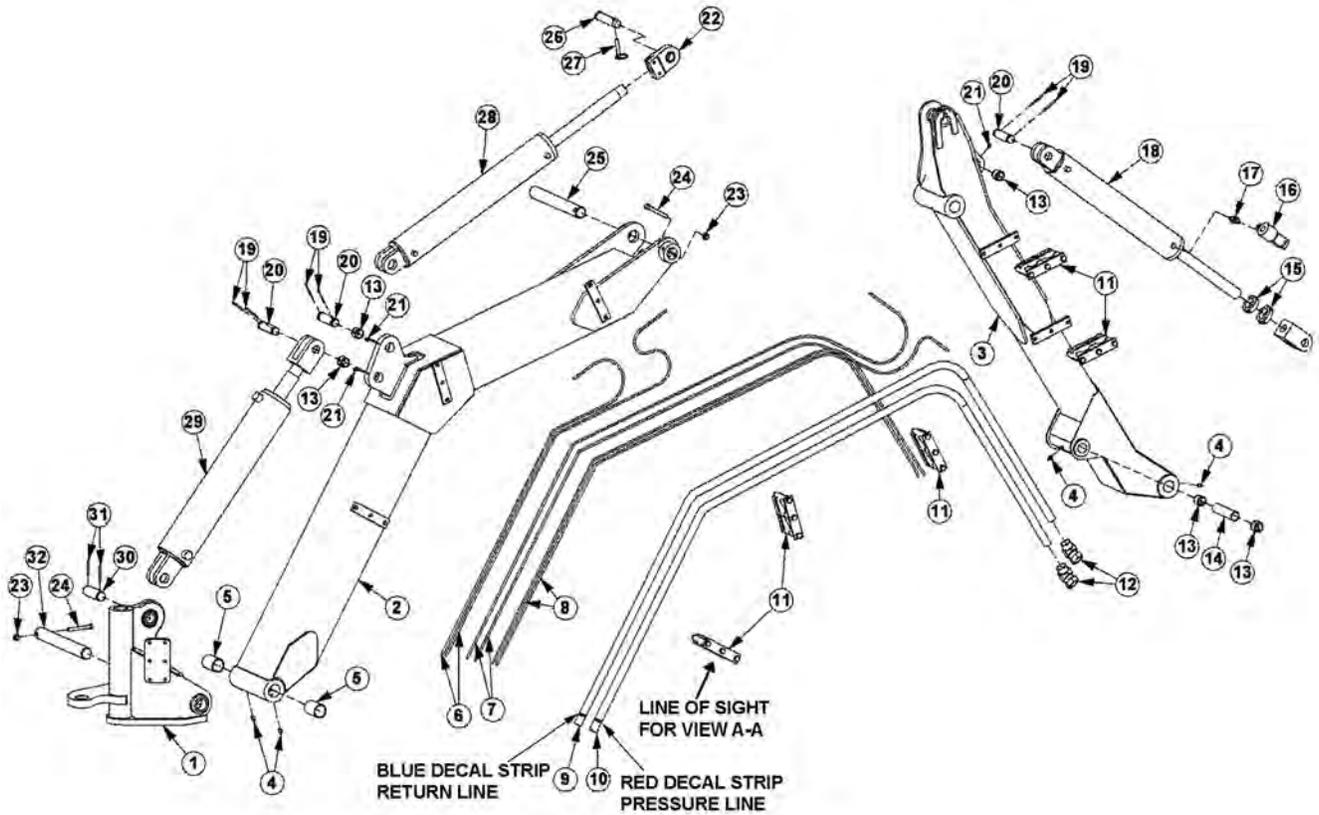


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

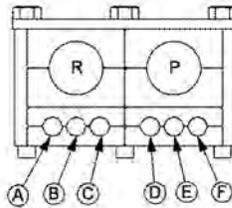
**Tiger Corporation**  
3301 N. Louise Ave.  
Sioux Falls, SD 57107  
1-800-843-6849  
1-605-336-7900

# BOOM ASSY - BENGAL 18 T4



**NOTES:**

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



VIEW A-A

**KEY**

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

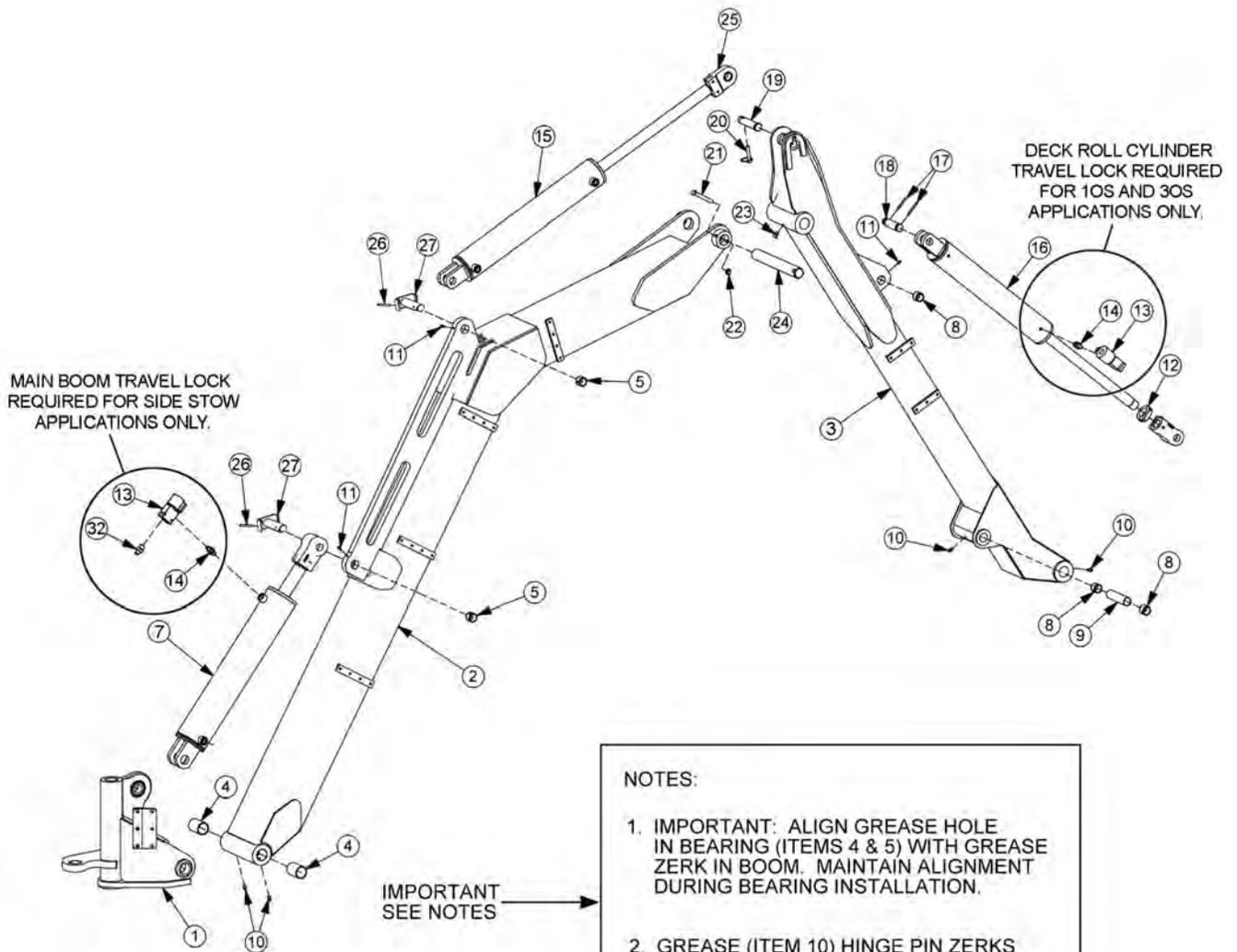
## BOOM ASSY - BENGAL 18 T4

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|---------------------------------|
| 1    | ----     | -    | REAR STOW SWIVEL ASSY           |
| 2    | 06700167 | -    | MAIN BOOM ASSY                  |
| ---  | 06310111 | 1    | MAIN BOOM WELDMENT              |
| 3    | 06700168 | -    | SECONDARY BOOM ASSY             |
| ---- | 06310112 | 1    | SECONDARY BOOM WELDMENT         |
| 4    | 6T3211   | 4    | GREASE ZERK,1/8"                |
| 5    | 06520075 | 2    | BUSHING,1-1/2" X 2-1/2"         |
| 6    | 06500499 | 2    | HOSE,1/4" X 50"                 |
| 7    | 06500500 | 2    | HOSE,1/4" X 108"                |
| 8    | 06500502 | 2    | HOSE,1/4" X 100"                |
| 9    | 06500713 | 1    | HOSE,1" X 163"                  |
| 10   | 06500714 | 1    | HOSE,1" X 162"                  |
| 11   | 06505116 | 2    | CLAMP KIT                       |
| 12   | 24724    | 2    | SWIVEL,1MJ X 1FJX45             |
| 13   | TB3010   | 3    | BUSHING                         |
| 14   | TB1035   | 1    | BUSHING,SPACER                  |
| 15   | 35312    | 1    | SET COLLAR                      |
| 16   | 06510050 | 1    | TRAVEL LOCK,METRIPACK COIL      |
| 17   | 31329    | 1    | ADAPTER,1/2ORB X 1/2ORB ADJ     |
| 18   | 06501023 | 1    | DECK ROLL CYLINDER,3" X 18"     |
| 19   | 06537021 | 6    | ROLL PIN,5MM                    |
| 20   | TB1033   | 4    | PIN,1"                          |
| 21   | 6T3207   | 4    | GREASE ZERK,1/4"                |
| 22   | TB3033   | 1    | CLEVIS WITH SPHERICAL BEARING   |
| 23   | 21677    | 2    | NYLOCK NUT,7/16",NC             |
| 24   | 21688    | 2    | CAPSCREW,7/16" X 3-1/4",NC      |
| 25   | TB1025   | 1    | PIN,1-1/2"                      |
| 26   | TB1036   | 1    | PIN,1"                          |
| 27   | TF1143   | 1    | PIN,LYNCH                       |
| 28   | 06501024 | 1    | SECONDARY CYLINDER,3-1/2" X 20" |
| 29   | 06501022 | 1    | MAIN CYLINDER,4" X 20"          |
| 30   | 06420100 | 1    | PIN,1-1/4"                      |
| 31   | TB1023   | 2    | ROLL PIN,7/32"                  |
| 32   | TB3013C  | 1    | PIN,1-1/2"                      |

COMMON BENGAL T4

# BOOM ASSY BENGAL STANDARD 22 T4

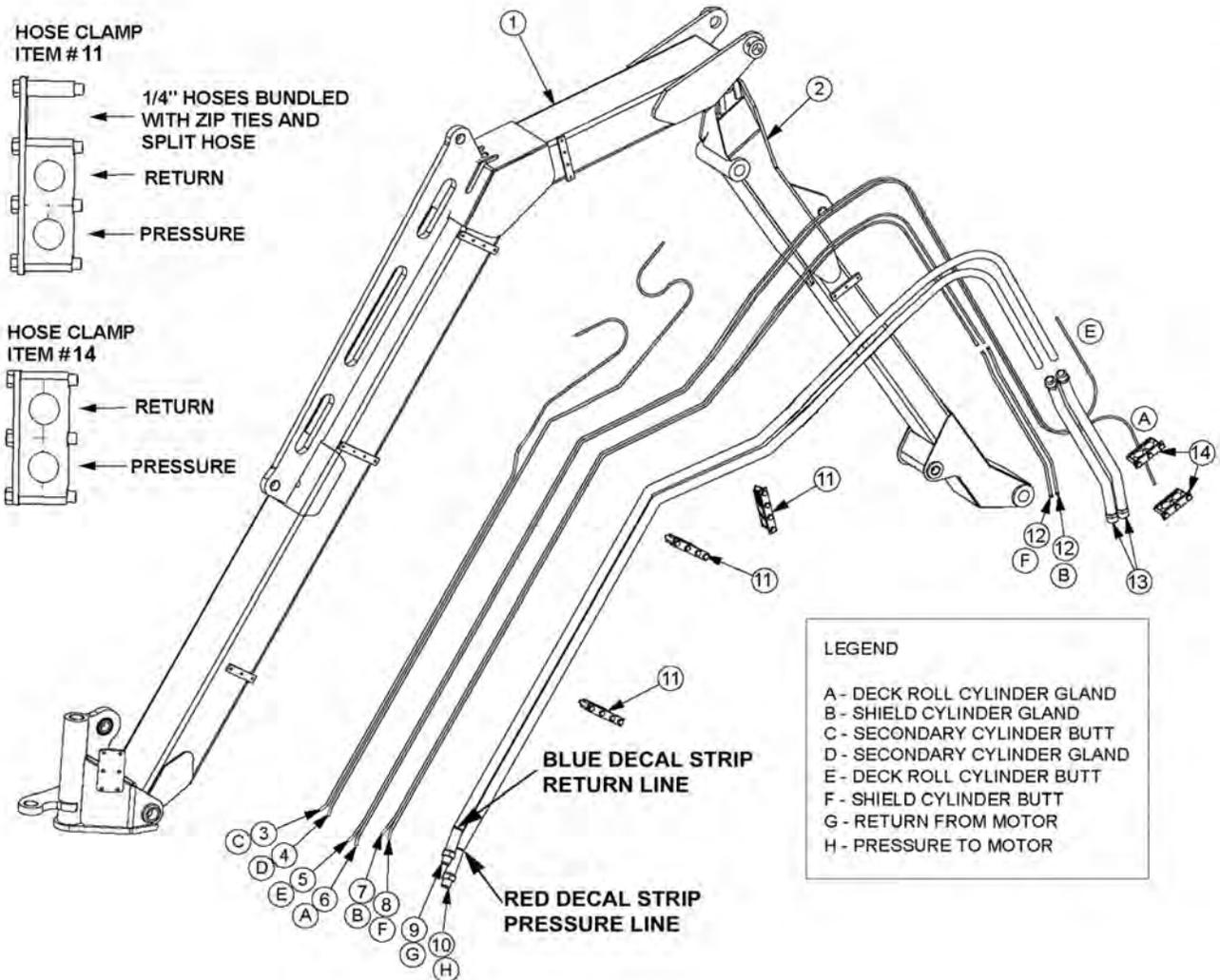


## BOOM ASSY BENGAL STANDARD 22 T4

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                             |
|------|----------|------|-----------------------------------------|
| 1    | -----    | -    | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2    | 06700189 | 1    | MAIN BOOM, T4                           |
| 3    | 24517    | 1    | SECONDARY BOOM ARM ASSY                 |
| 4    | 32321    | 2    | BEARING, DX, 1-1/2" X 2"                |
| 5    | TB1044   | 2    | BUSHING, 1-1/4"ID                       |
| 7    | 06501020 | 1    | CYLINDER, 5" X 20"                      |
| 8    | TB3010   | 3    | BUSHING, 1"ID                           |
| 9    | TB1035   | 1    | BUSHING,SPACER                          |
| 10   | 6T3211   | 4    | GREASE ZERK,1/8"                        |
| 11   | 6T3207   | 3    | GREASE ZERK,1/4                         |
| 12   | 35312    | 1    | SET COLLAR                              |
| 13   | 06510050 | 1    | TRAVEL LOCK,METRIPACK COIL              |
| 14   | 31329    | 1    | ADAPTER,1/2ORB X 1/2ORB ADJ             |
| 15   | 06501022 | 1    | CYLINDER, 4" X 20"                      |
| 16   | 06501023 | 1    | CYLINDER,3" X 18"                       |
| 17   | 06537021 | 6    | ROLL PIN,5MM                            |
| 18   | TB1033   | 1    | PIN,1" X 4"                             |
| 19   | TB1036   | 1    | PIN,1" X 4-11/16"                       |
| 20   | TF1143   | 1    | PIN,LYNCH                               |
| 21   | 21688    | 2    | CAPSCREW,7/16" X 3-1/4",NC              |
| 22   | 21677    | 2    | NYLOCK NUT,7/16",NC                     |
| 23   | 6T3210   | 1    | GREASE ZERK,1/8" X 90°                  |
| 24   | TB1025   | 1    | PIN,1-1/2" X 12"                        |
| 25   | 30172    | 1    | CLEVIS,SPHERICAL                        |
| 26   | 6T3014   | 2    | ROLL PIN, 1/4" X 2"                     |
| 27   | TB1045B  | 2    | PIN, PRIMARY CYLINDER                   |

# BOOM ASSY HYD BENGAL 22 T4



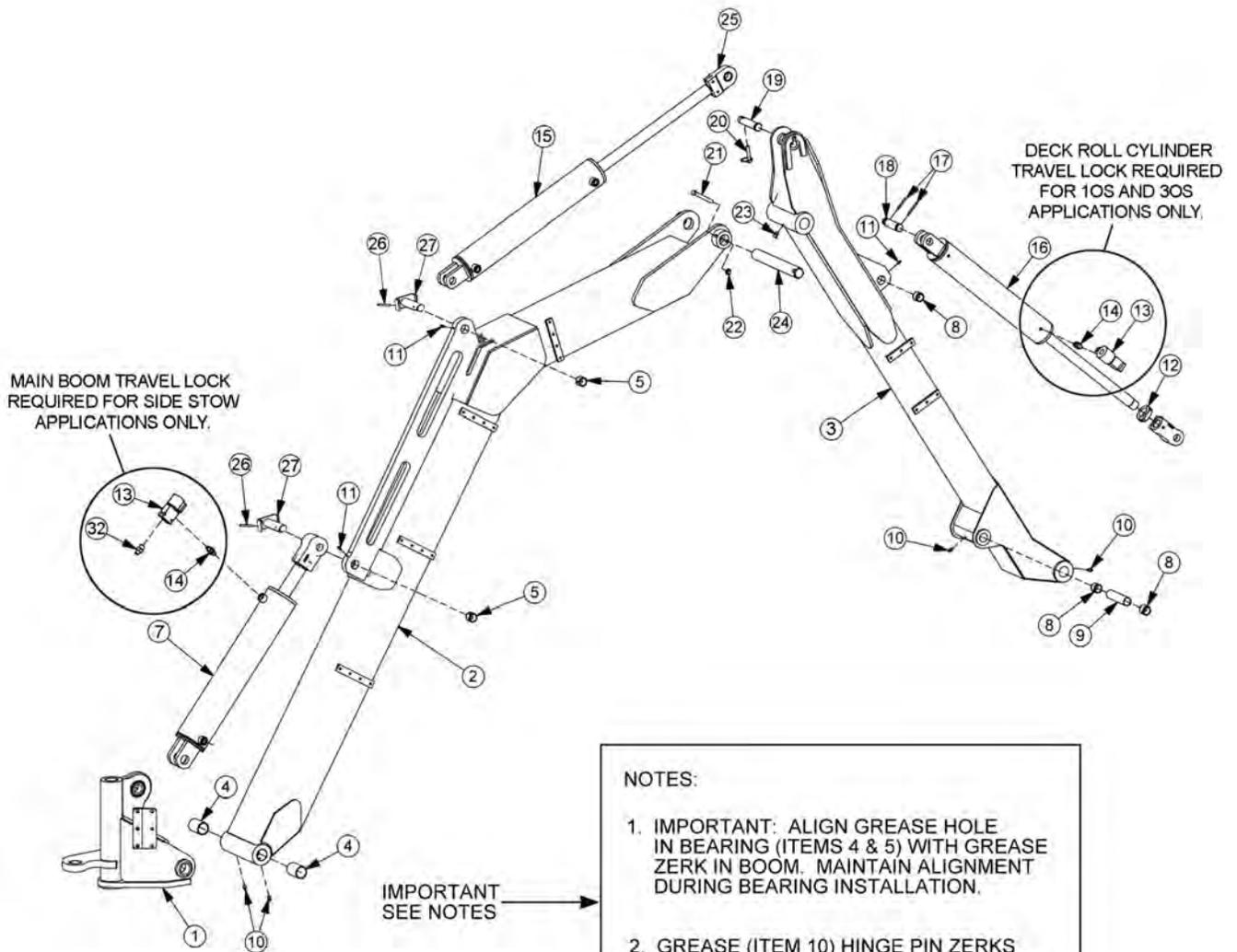
## BOOM ASSY HYD BENGAL 22 T4

Continued...

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

COMMON BENGAL T4

# BOOM ASSY BENGAL EXT 24 T4



## NOTES:

1. IMPORTANT: ALIGN GREASE HOLE IN BEARING (ITEMS 4 & 5) WITH GREASE ZERK IN BOOM. MAINTAIN ALIGNMENT DURING BEARING INSTALLATION.
2. GREASE (ITEM 10) HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.

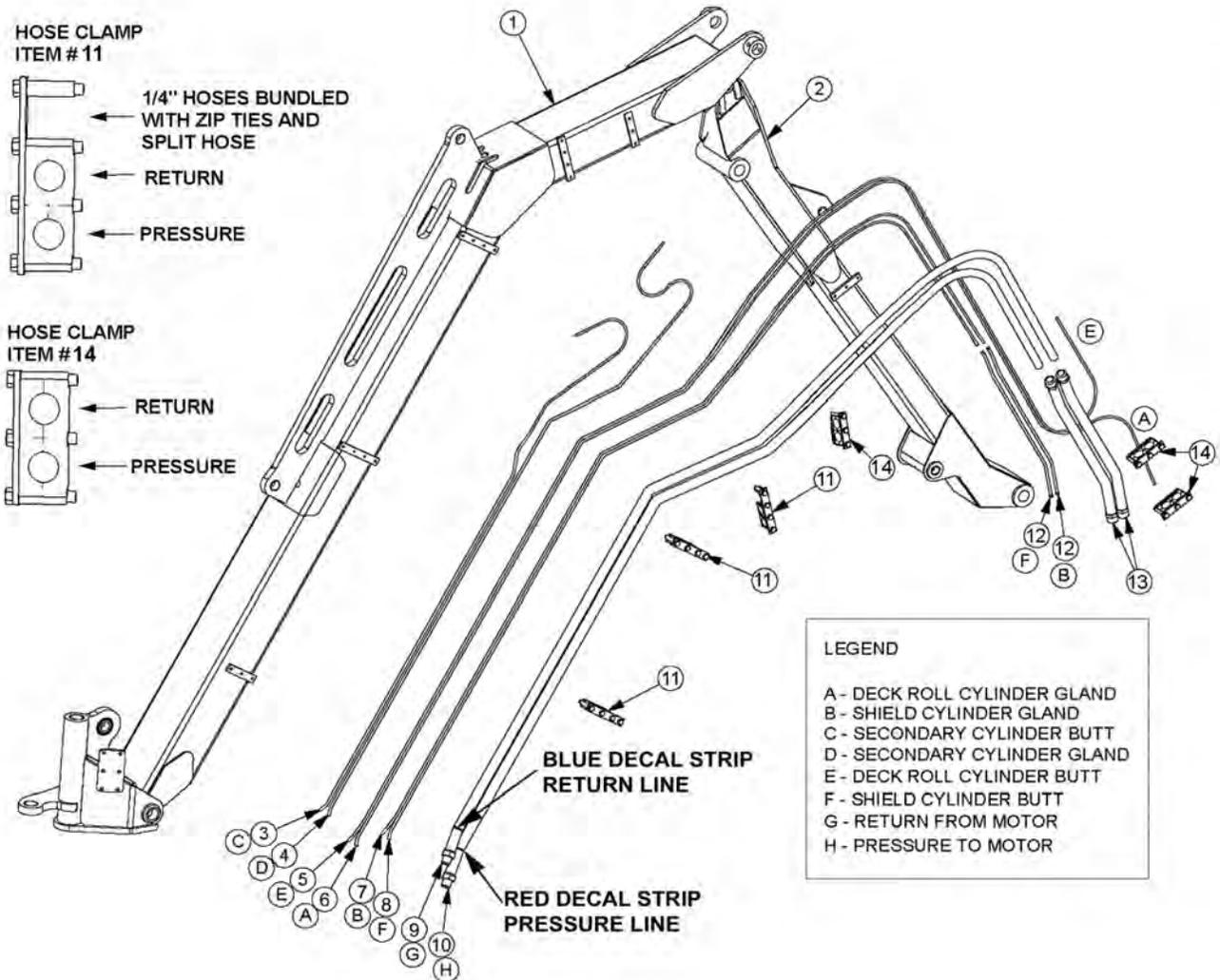
## BOOM ASSY BENGAL EXT 24 T4

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                             |
|------|----------|------|-----------------------------------------|
| 1    | -----    | -    | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2    | 06700191 | 1    | MAIN BOOM, EXT, T4                      |
| 3    | 06700094 | 1    | SECONDARY BOOM ARM ASSY, EXT, T4        |
| 4    | 32321    | 2    | BEARING, DX, 1-1/2" X 2"                |
| 5    | TB1044   | 2    | BUSHING, 1-1/4"ID                       |
| 7    | 06501020 | 1    | CYLINDER, 5" X 20"                      |
| 8    | TB3010   | 3    | BUSHING, 1"ID                           |
| 9    | TB1035   | 1    | BUSHING,SPACER                          |
| 10   | 6T3211   | 4    | GREASE ZERK,1/8"                        |
| 11   | 6T3207   | 3    | GREASE ZERK,1/4                         |
| 12   | 35312    | 1    | SET COLLAR                              |
| 13   | 06510050 | 1    | TRAVEL LOCK,METRIPACK COIL              |
| 14   | 31329    | 1    | ADAPTER,1/2ORB X 1/2ORB ADJ             |
| 15   | 06501022 | 1    | CYLINDER, 4" X 20"                      |
| 16   | 06501023 | 1    | CYLINDER,3" X 18"                       |
| 17   | 06537021 | 6    | ROLL PIN,5MM                            |
| 18   | TB1033   | 1    | PIN,1" X 4"                             |
| 19   | TB1036   | 1    | PIN,1" X 4-11/16"                       |
| 20   | TF1143   | 1    | PIN,LYNCH                               |
| 21   | 21688    | 2    | CAPSCREW,7/16" X 3-1/4",NC              |
| 22   | 21677    | 2    | NYLOCK NUT,7/16",NC                     |
| 23   | 6T3210   | 1    | GREASE ZERK,1/8" X 90°                  |
| 24   | TB1025   | 1    | PIN,1-1/2" X 12"                        |
| 25   | 30172    | 1    | CLEVIS,SPHERICAL                        |
| 26   | 6T3014   | 2    | ROLL PIN, 1/4" X 2"                     |
| 27   | TB1045B  | 2    | PIN, PRIMARY CYLINDER                   |

COMMON BENGAL T4

# BOOM ASSY HYD BENGAL 24 T4



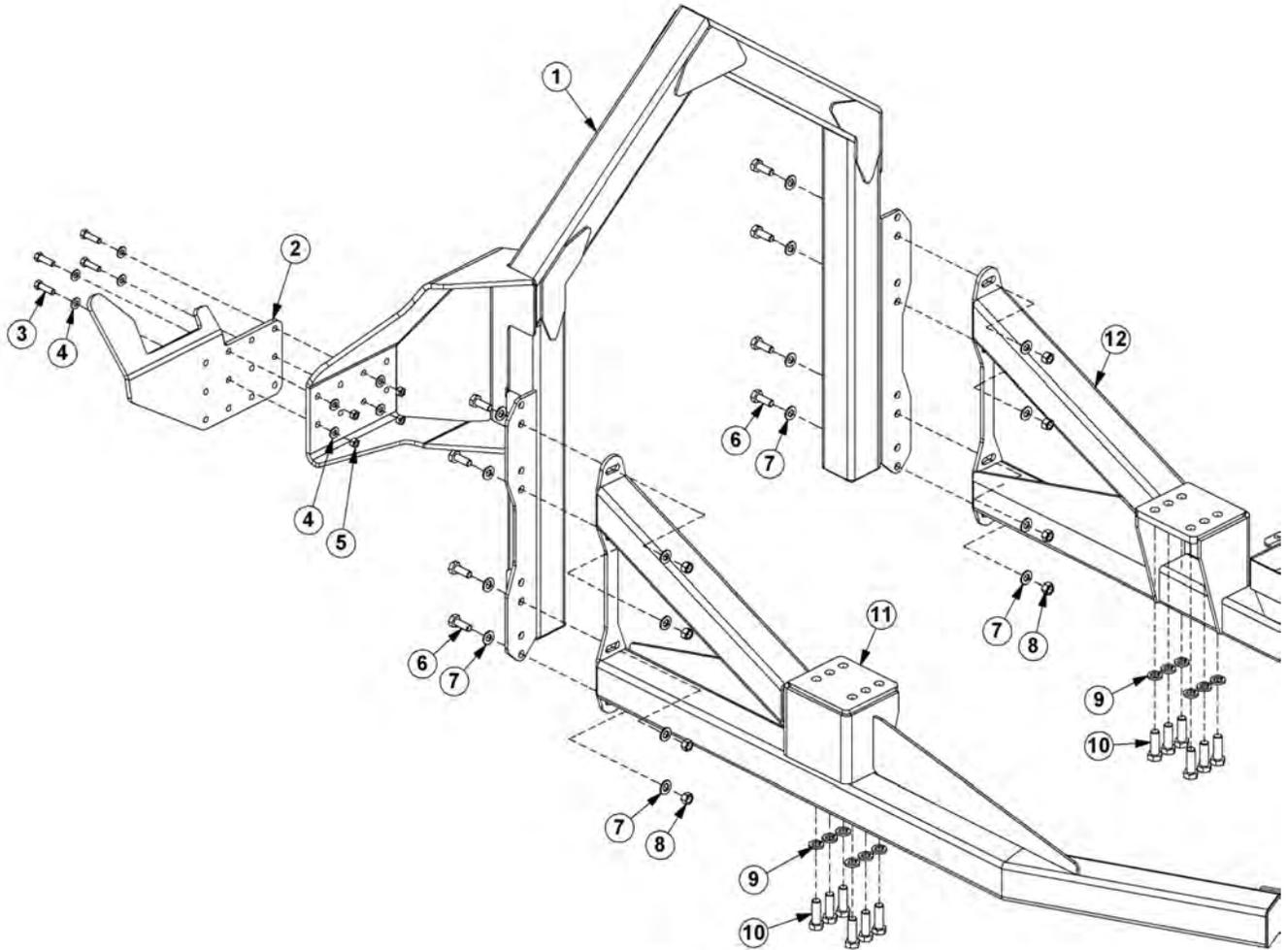
## BOOM ASSY HYD BENGAL 24 T4

Continued...

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

COMMON BENGAL T4

# BOOMREST - OPEN STOW



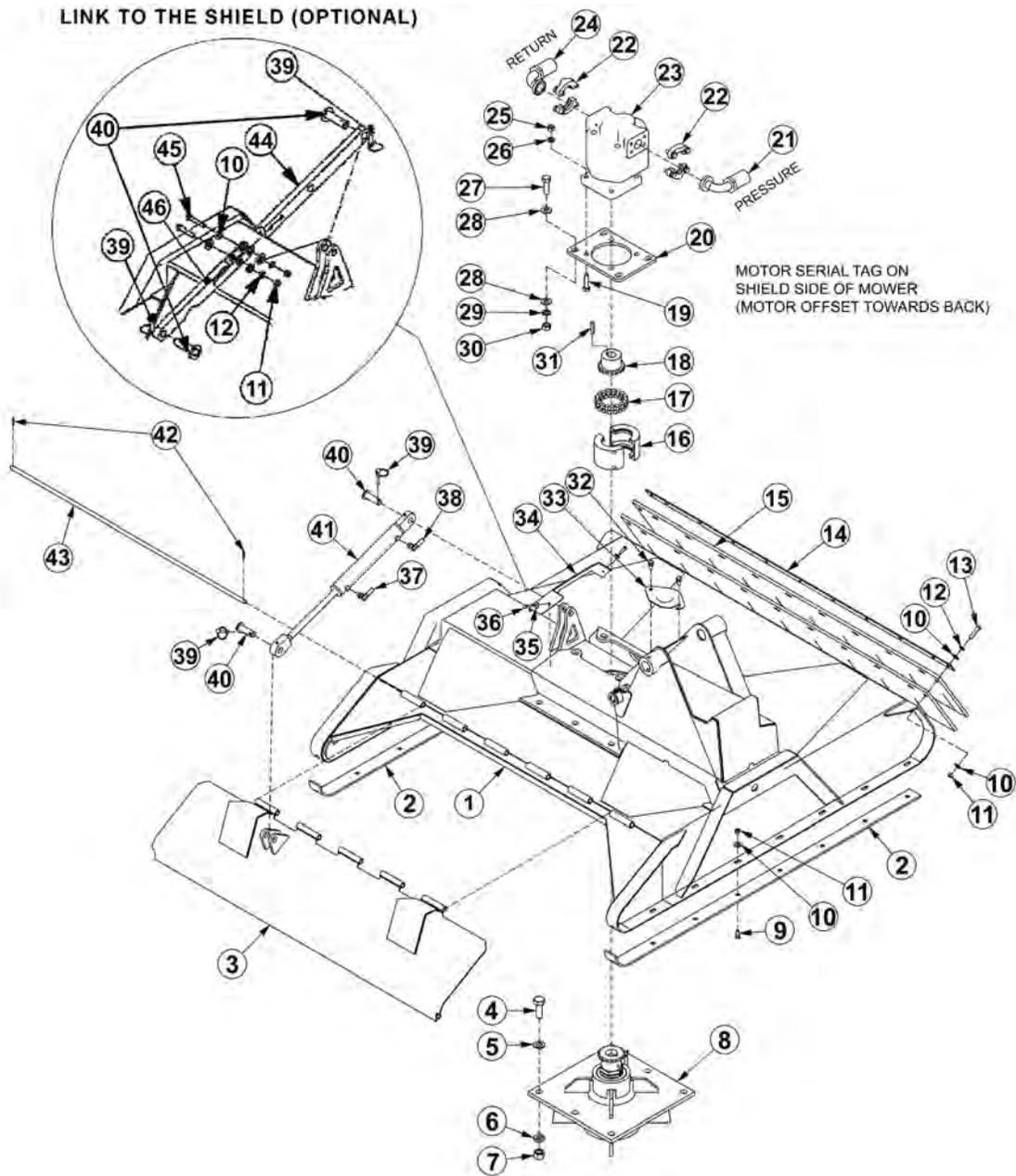
## BOOMREST - OPEN STOW

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| 1    | 06310159 | 1    | BOOMREST,OS               |
| 2    | 06410968 | 1    | SADDLE                    |
| 3    | 21732    | 4    | CAPSCREW,1/2" X 1-3/4",NC |
| 4    | 06533004 | 8    | FLATWASHER,1/2",SAE       |
| 5    | 21725    | 4    | HEX NUT,1/2",NC           |
| 6    | 21782    | 8    | CAPSCREW,5/8" X 1-3/4",NC |
| 7    | 33764    | 16   | FLATWASHER,5/8",SAE       |
| 8    | 21775    | 8    | HEX NUT,5/8",NC           |
| 9    | 24881    | 12   | LOCKWASHER,20MM           |
| 10   | 27281    | 12   | CAPSCREW,20MM X 60MM,2.5P |
| 11   | 06300019 | 1    | AXLE BRACE,RH             |
| 12   | 06300256 | 1    | AXLE BRACE,LH             |

COMMON BENGAL T4

## 50IN ROTARY MOWER ASSEMBLY



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

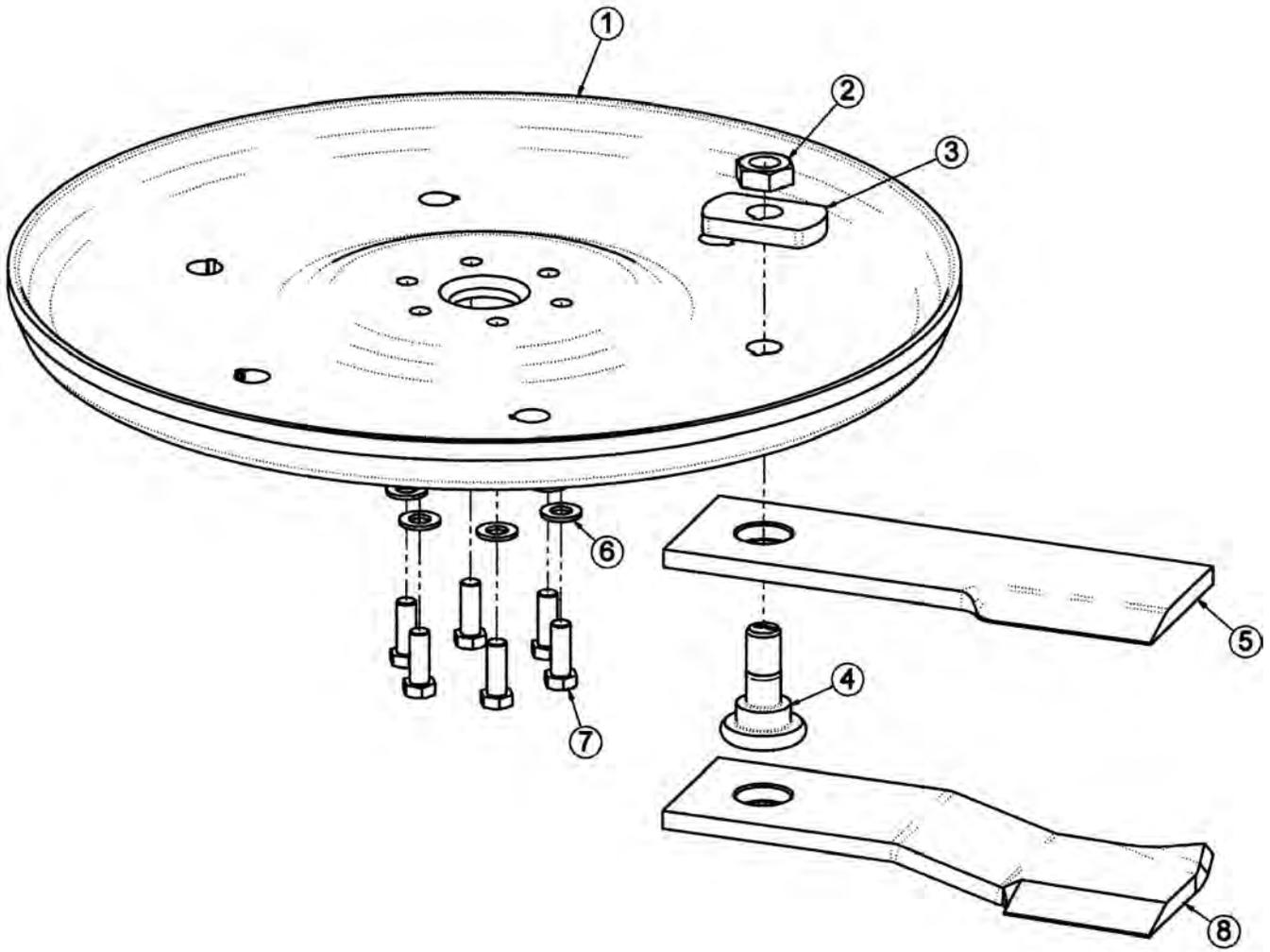
## 50IN ROTARY MOWER ASSEMBLY

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>            |
|-------------|-----------------|-------------|-------------------------------|
| 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       |

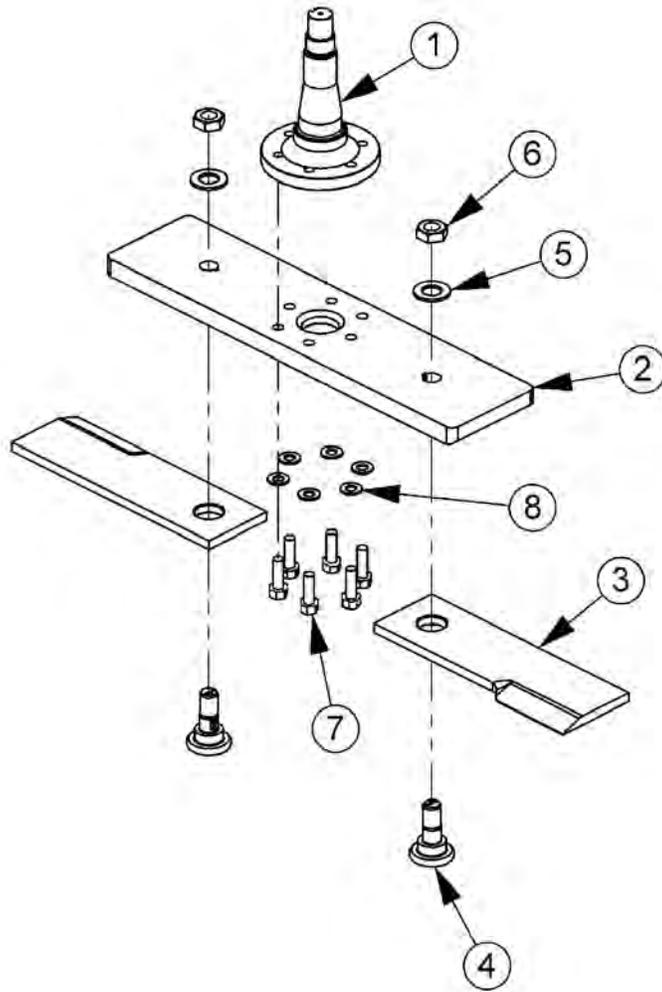
COMMON BENGAL T4

## 50IN ROTARY KNIVES AND DISH



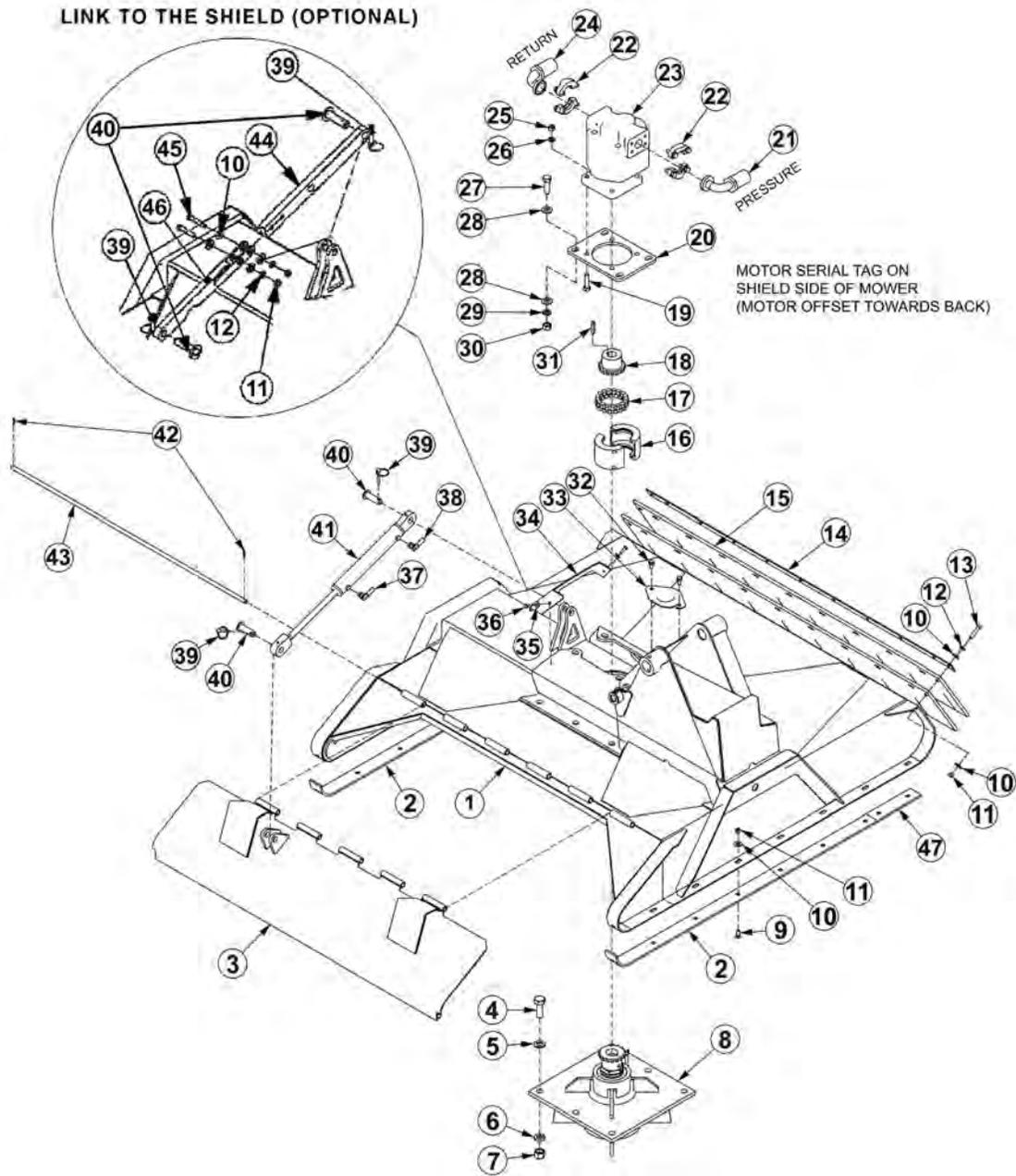
| ITEM  | PART NO. | QTY. | DESCRIPTION                                        |
|-------|----------|------|----------------------------------------------------|
| ----- | 06700089 | -    | KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7) |
| 1     | 06770003 | 1    | BLADE MOUNTING DISK          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

## 50IN ROTARY BLADE BAR AND KNIVES



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

# 60IN ROTARY MOWER ASSEMBLY



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

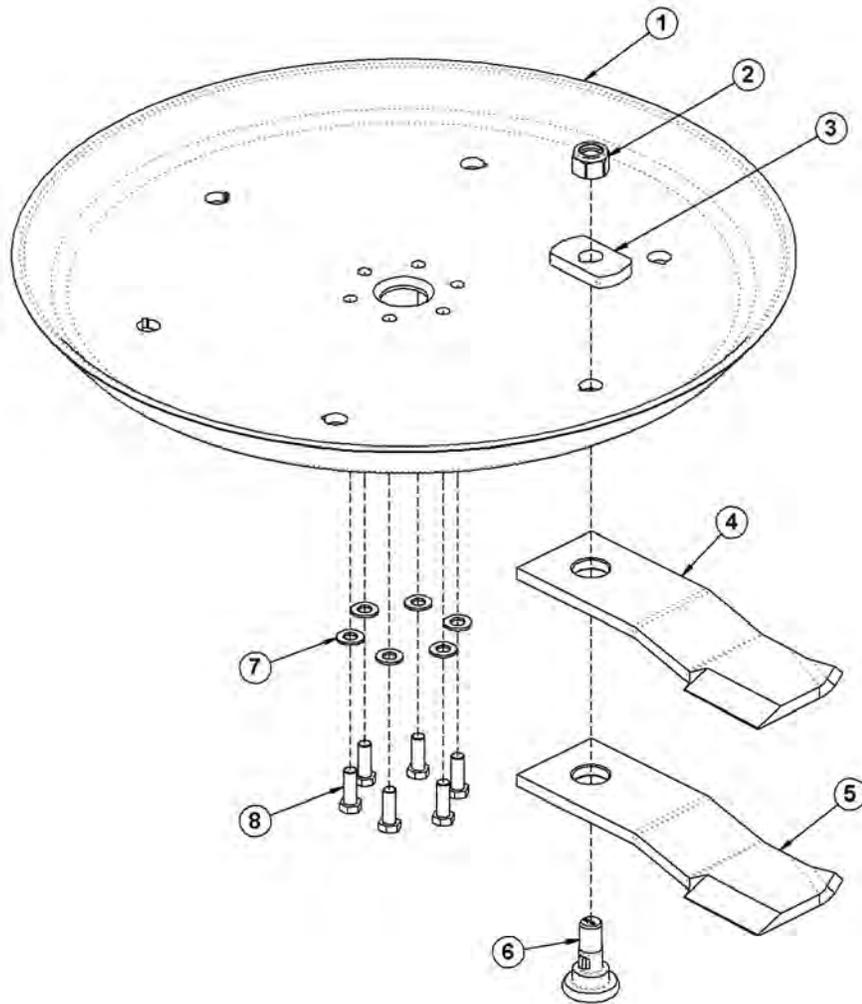
## 60IN ROTARY MOWER ASSEMBLY

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>            |
|-------------|-----------------|-------------|-------------------------------|
| 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               |

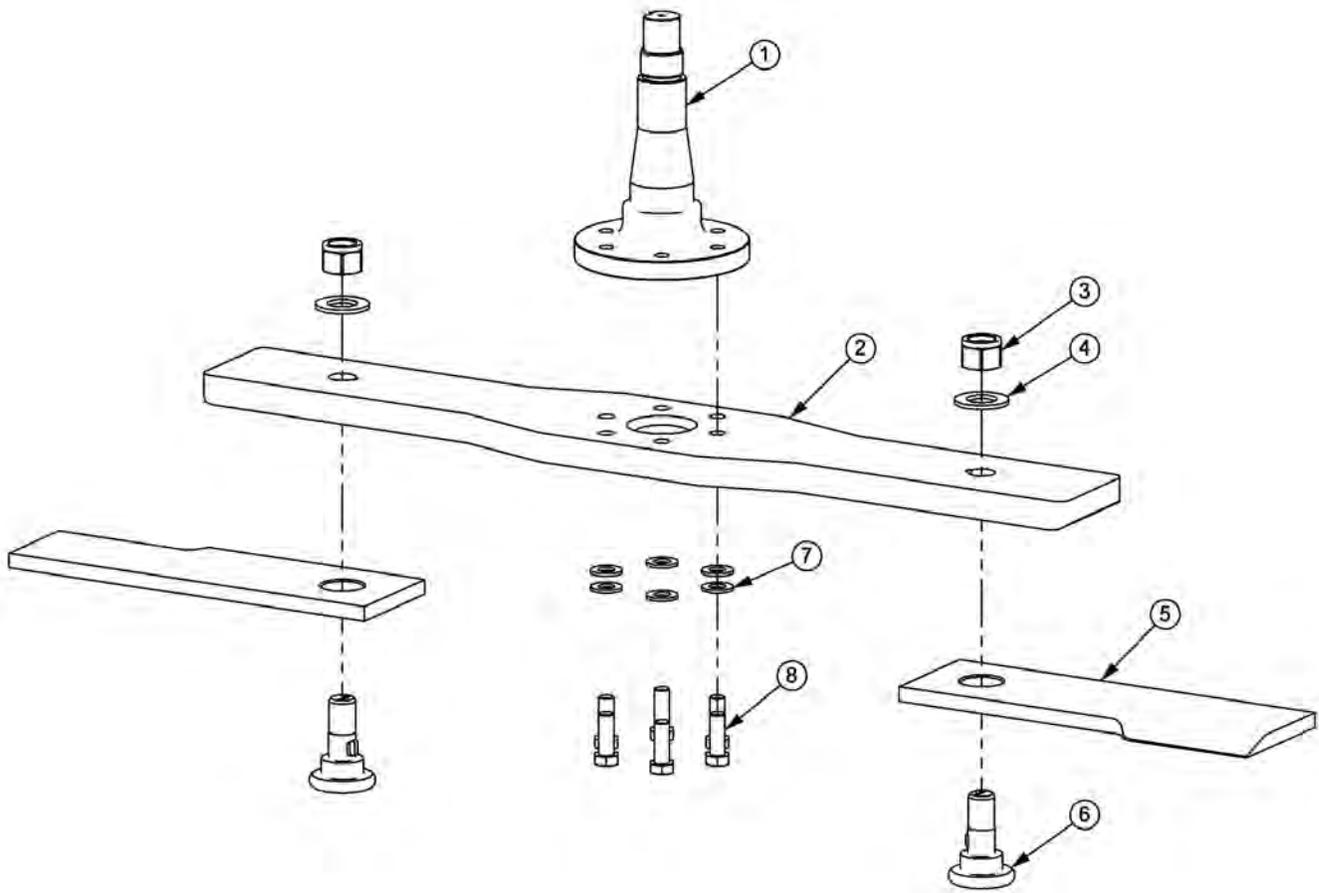
COMMON BENGAL T4

## 60IN ROTARY KNIVES AND DISH



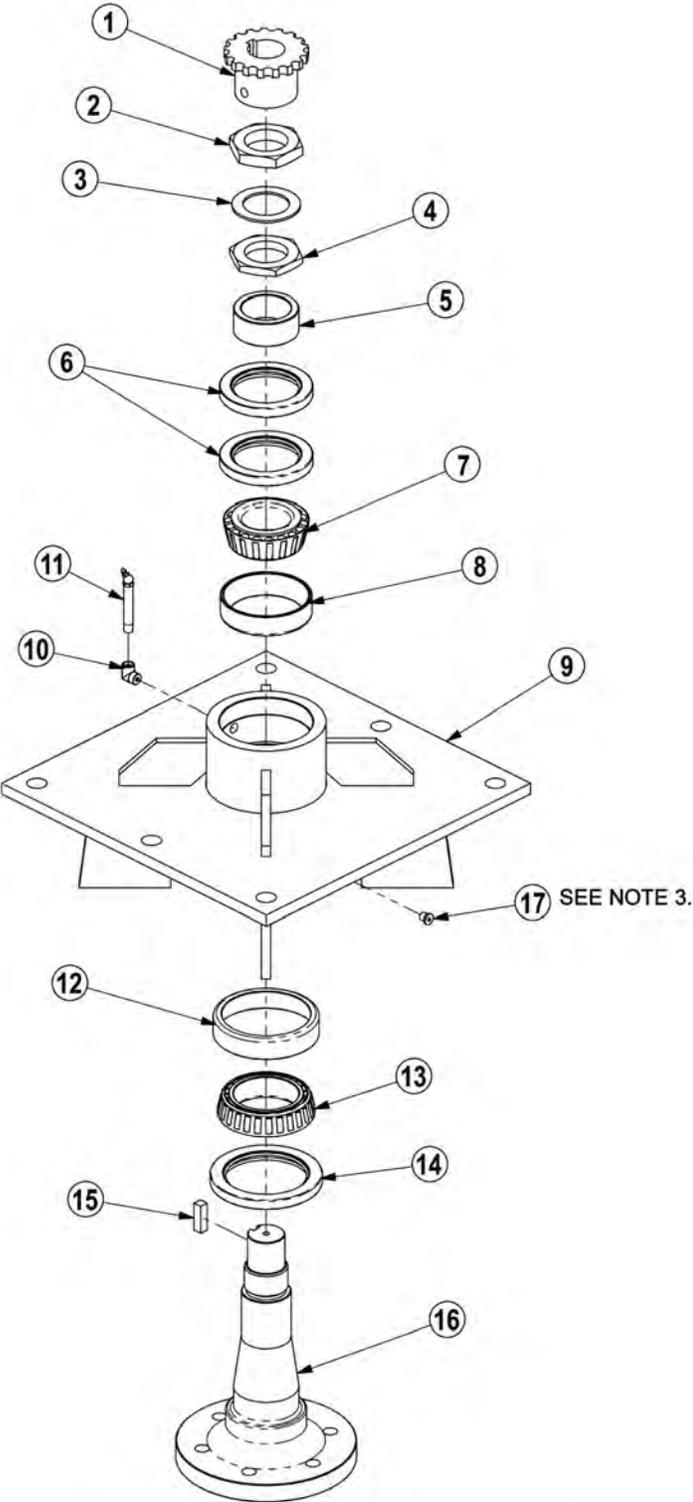
| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 1    | 34876    | 1    | BLADE MOUNTING DISH,60"             |
| 2    | 6T1023R  | 2    | NYLOCK NUT,1-1/8",NF                |
| 3    | 34878    | 2    | SPACER                              |
| 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    | LOCTITE (USED ON ITEM 8)            |
| ---  | 27167    | 1    | BOLT KIT (ITEMS 7 & 8)              |
| ---  | 33893    | 1    | KNIFE KIT (ITEMS 2,4 & 6)           |

## 60IN ROTARY BLADE BAR AND KNIVES



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

# ROTARY MOWER SPINDLE ASSEMBLY



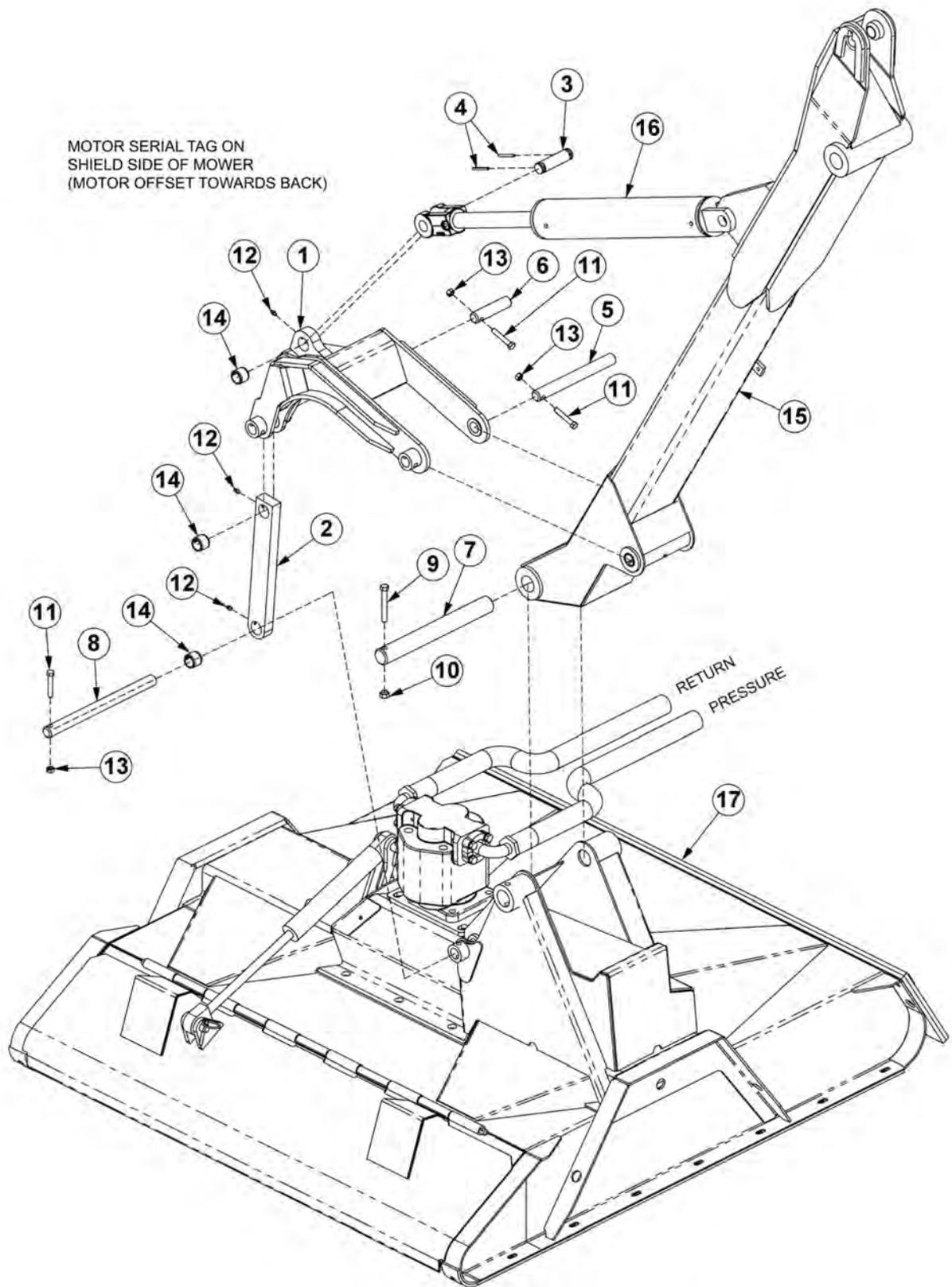
- NOTES:
1. FREEPLAY: .001" - .003"
  2. GREASE: FILL WITH MOBILITH SHC 220.
  3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

## 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    | PT1018H5 | 1    | SPINDLE                                                |
| 17    | 06503064 | 1    | O-RING PLUG, 1/8"                                      |
| ----- | 31771    | -    | SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15) |

# BOOM ROTARY PIVOT ASSEMBLY



## BOOM ROTARY PIVOT ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                             |
|------|----------|------|-----------------------------------------|
| 1    | TB1032   | 1    | ROTARY PIVOT ASSY                       |
| 2    | TB1028   | 1    | PIVOT ARM ASSY                          |
| 3    | TB1033   | 1    | PIN,CLEVIS                              |
| 4    | 06537021 | 2    | ROLL PIN                                |
| 5    | TF3097   | 1    | PIN                                     |
| 6    | TB1030   | 1    | PIN                                     |
| 7    | 33985    | 1    | PIN                                     |
| 8    | 33986    | 1    | PIN                                     |
| 9    | 21688    | 1    | CAPSCREW,7/16 X 3-1/4,NC                |
| 10   | 21677    | 1    | NYLOCK NUT,7/16 NC                      |
| 11   | 21635    | 3    | CAPSCREW,3/8 X 2-1/4                    |
| 12   | 6T3207   | 3    | GREASE ZERK                             |
| 13   | 21627    | 3    | NYLOCK NUT,3/8,NC                       |
| 14   | TB3010   | 3    | BUSHING                                 |
| 15   | -----    | -    | SECONDARY BOOM *REFER TO BOOM ARM ASSY  |
| 16   | -----    | -    | CYLINDER *REFER TO BOOM ARM ASSY        |
| 17   | -----    | -    | ROTARY MOWER HEAD *REFER TO ROTARY DECK |

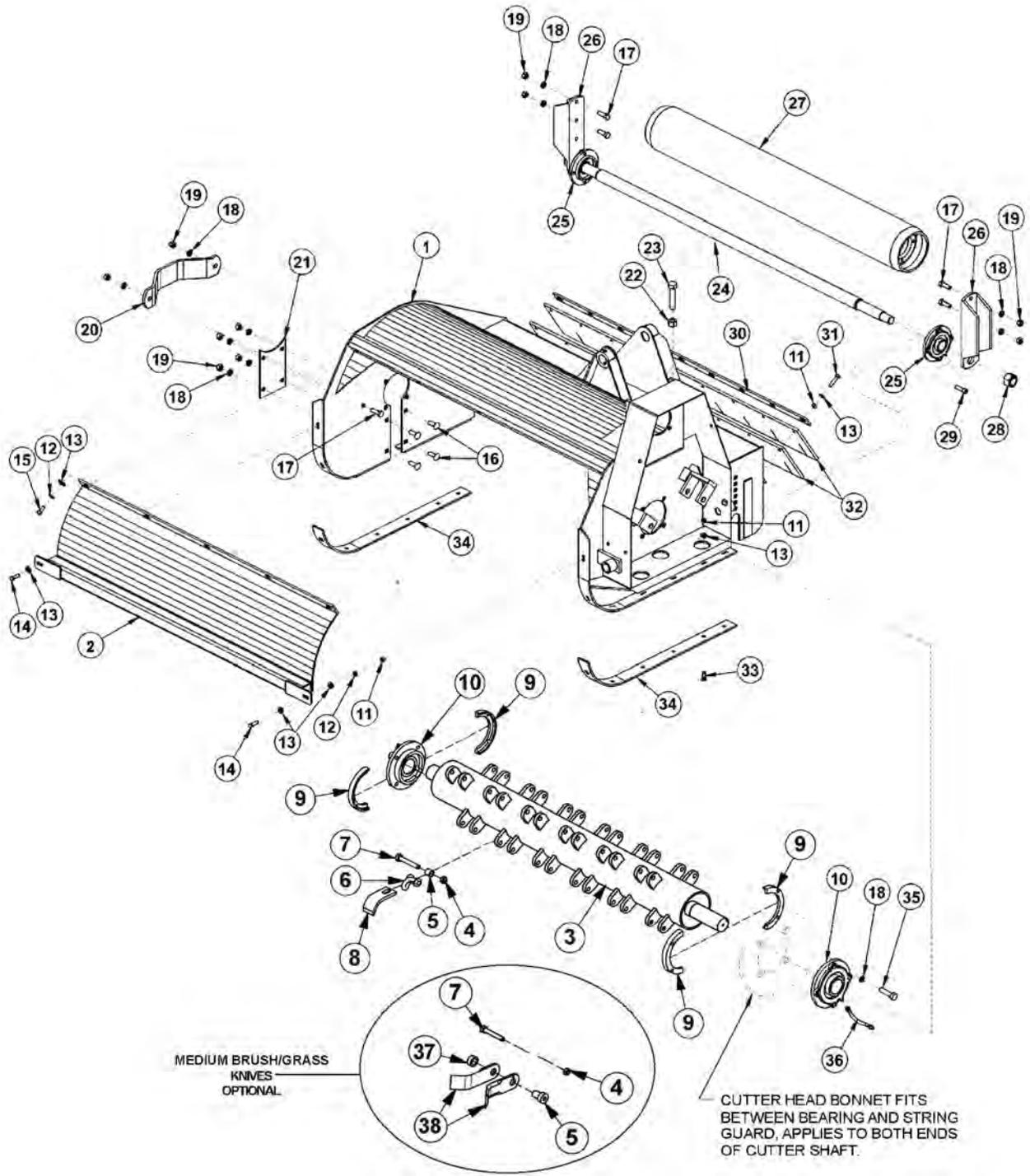


## 50IN FLAIL DRIVE ASSEMBLY

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



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

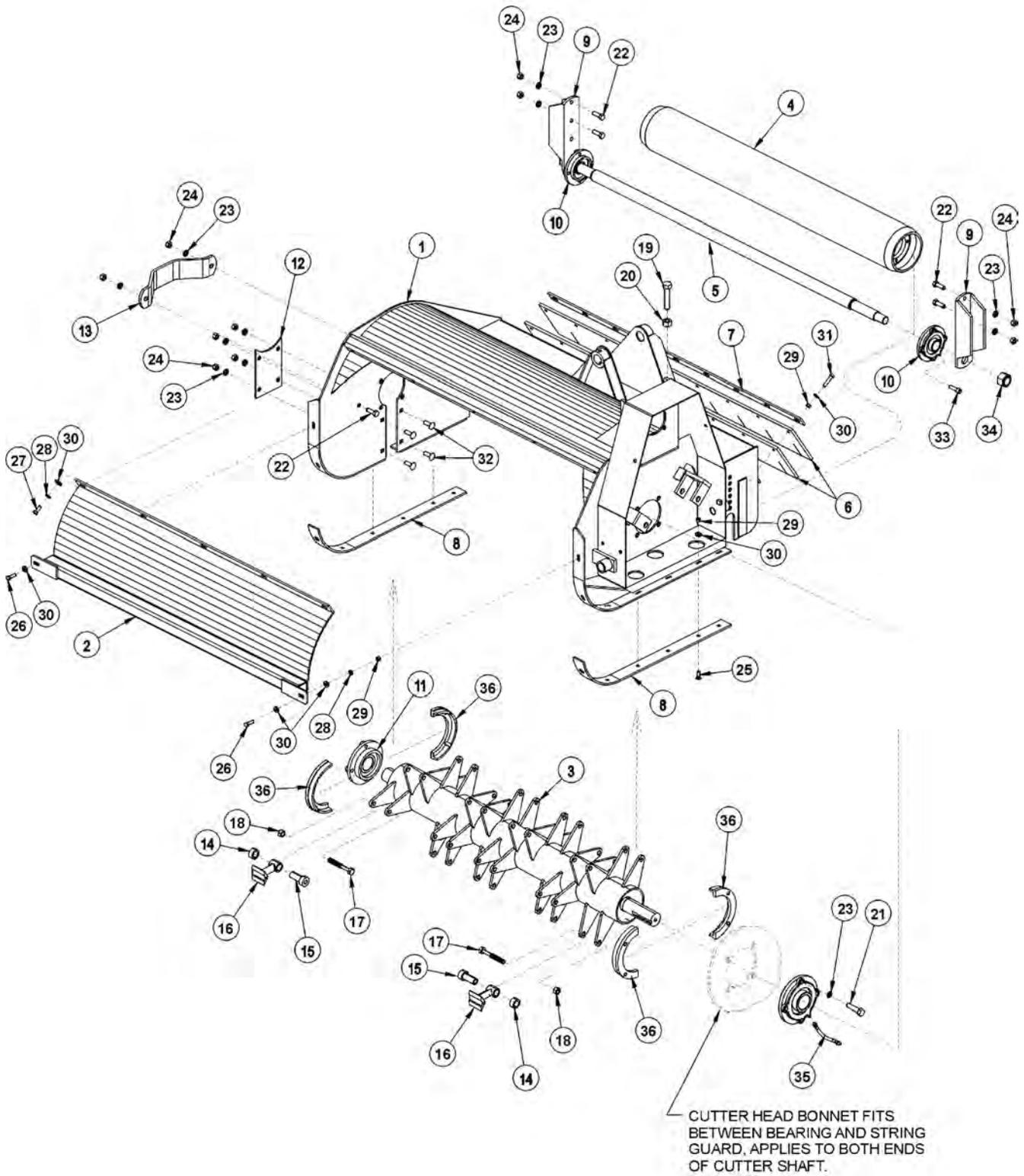
## 50IN FLAIL MOWER ASSEMBLY

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    | 06420182 | 24   | BUSHING                               |
| 6    | 34782    | 24   | CLEVIS (LIGHT BRUSH/GRASS KNIVES)     |
| 7    | 34786    | 24   | CAPSCREW,9/16" X 3-1/2",NC            |
| 8    | 34780    | 24   | KNIFE (LIGHT BRUSH/GRASS CUTTING)     |
| 9    | 31204    | 2    | STRING GUARD SET (2 PIECES PER SET)   |
| 10   | TF1018   | 2    | FLANGE BEARING,2-3/16"                |
| 11   | 21625    | 23   | HEX NUT,3/8",NC                       |
| 12   | 21988    | 7    | LOCKWASHER,3/8"                       |
| 13   | 22016    | 30   | FLATWASHER,3/8"                       |
| 14   | 21631    | 2    | CAPSCREW,3/8" X 1-1/4",NC             |
| 15   | 21630    | 5    | CAPSCREW,3/8" X 1",NC                 |
| 16   | 6T7031D  | 4    | PLOW BOLT,1/2" X 1-1/2",NC            |
| 17   | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC             |
| 18   | 21990    | 18   | LOCKWASHER,1/2"                       |
| 19   | 21725    | 10   | HEX NUT,1/2",NC                       |
| 20   | TF1040   | 1    | CUTTER SHAFT GUARD                    |
| 21   | TF3007A  | 1    | COVER PLATE                           |
| 22   | 21825    | 1    | HEX NUT,5/8",NC                       |
| 23   | 21838    | 1    | CAPSCREW,3/4" X 3-1/2",NC             |
| 24   | TF3406   | 1    | GROUND ROLLER TIE ROD                 |
| 25   | TF1022   | 2    | FLANGE BEARING,1-3/8"                 |
| 26   | TF3407   | 2    | GROUND ROLLER ADJUSTMENT BRACKET      |
| 27   | TF3405   | 1    | GROUND ROLLER                         |
| 28   | 6T1023R  | 2    | NYLOCK NUT,1-1/8",NF                  |
| 29   | 6T2330   | 8    | CAPSCREW,7/16" X 1-1/2",SOCKET HEAD   |
| 30   | TB1008   | 1    | FLAP RETAINING BAR                    |
| 31   | 21633    | 9    | CAPSCREW,3/8" X 1-3/4",NC             |
| 32   | TB1006A  | 2    | DEFLECTOR FLAP                        |
| 33   | 6T2270   | 12   | PLOWBOLT,3/8" X 1",NC                 |
| 34   | TF3001   | 2    | SKID SHOE                             |
| 35   | 06530218 | 8    | CAPSCREW,1/2" X 1-3/4",NC             |
| 36   | TF1032   | 1    | FLANGE BEARING GREASE HOSE            |
| 37   | 06420183 | 24   | SPACER (MEDIUM BRUSHGRASS KNIVES)     |
| 38   | 06521007 | 48   | KNIFE (MEDIUM BRUSH/GRASS CUTTING)    |

COMMON BENGAL T4

# 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) |

COMMON BENGAL T4

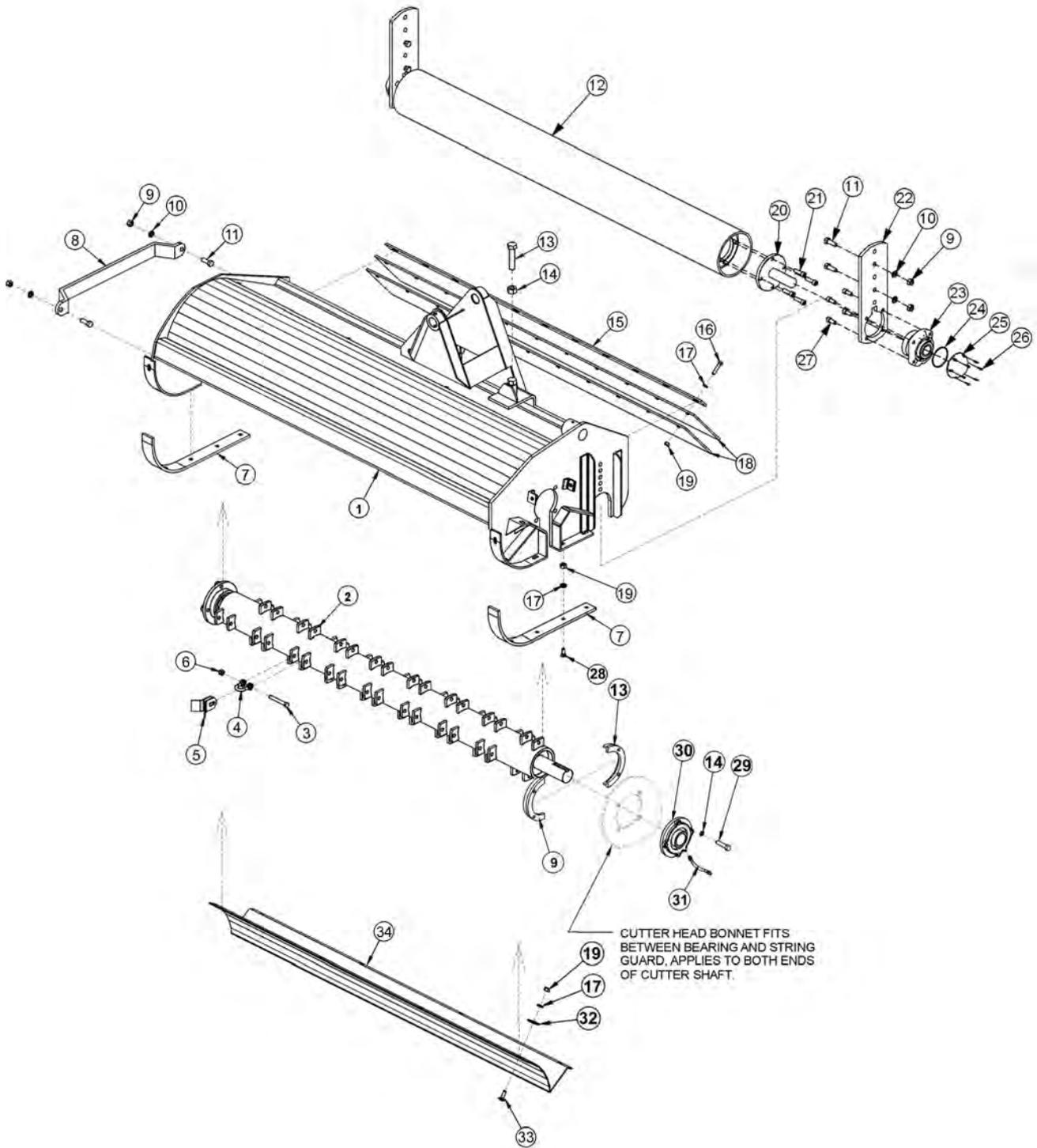


## 63IN FLAIL DRIVE ASSEMBLY

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



CUTTER HEAD BONNET FITS BETWEEN BEARING AND STRING GUARD, APPLIES TO BOTH ENDS OF CUTTER SHAFT.

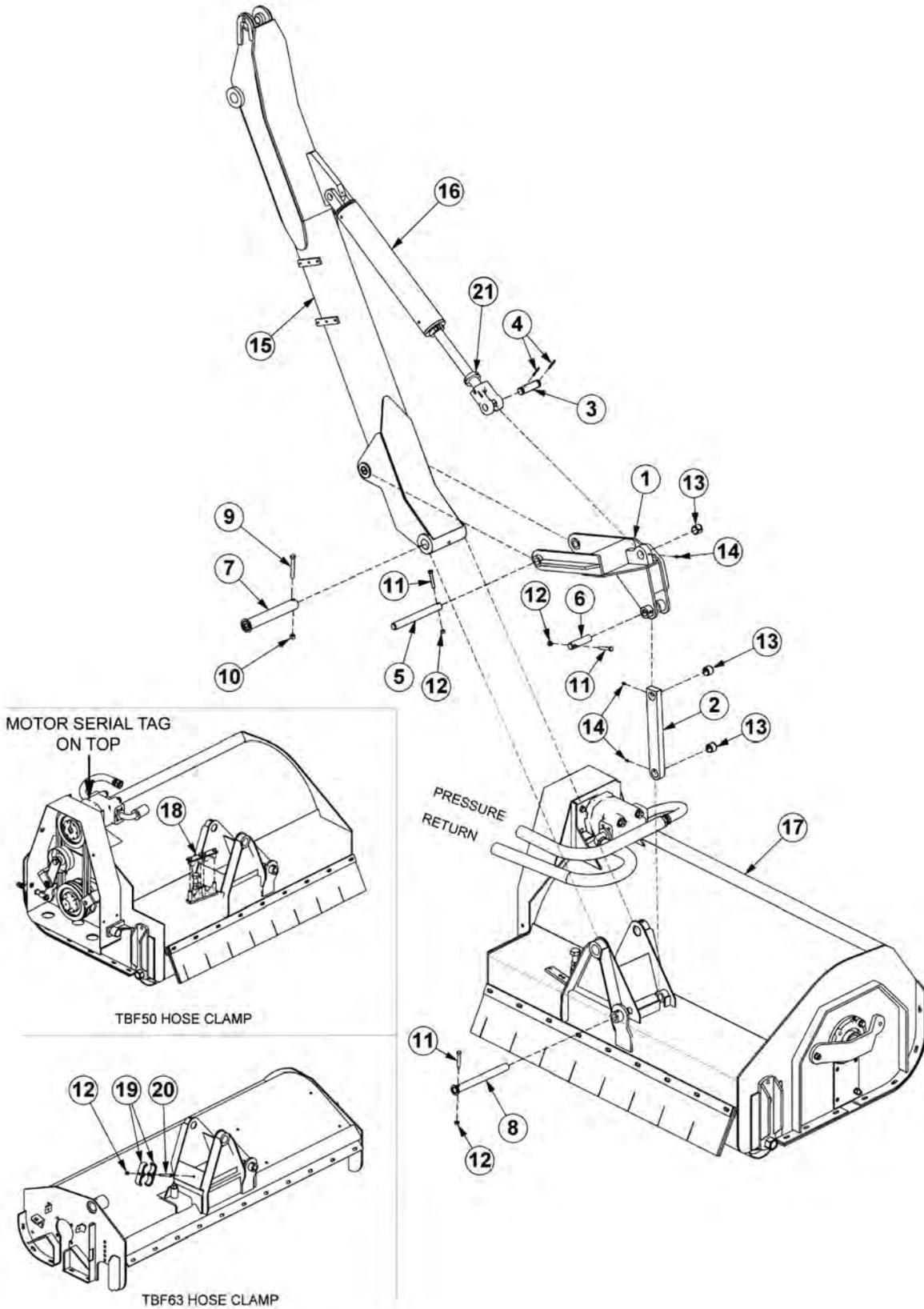
## 63IN FLAIL MOWER ASSEMBLY

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) |

COMMON BENGAL T4

# BOOM FLAIL PIVOT ASSEMBLY

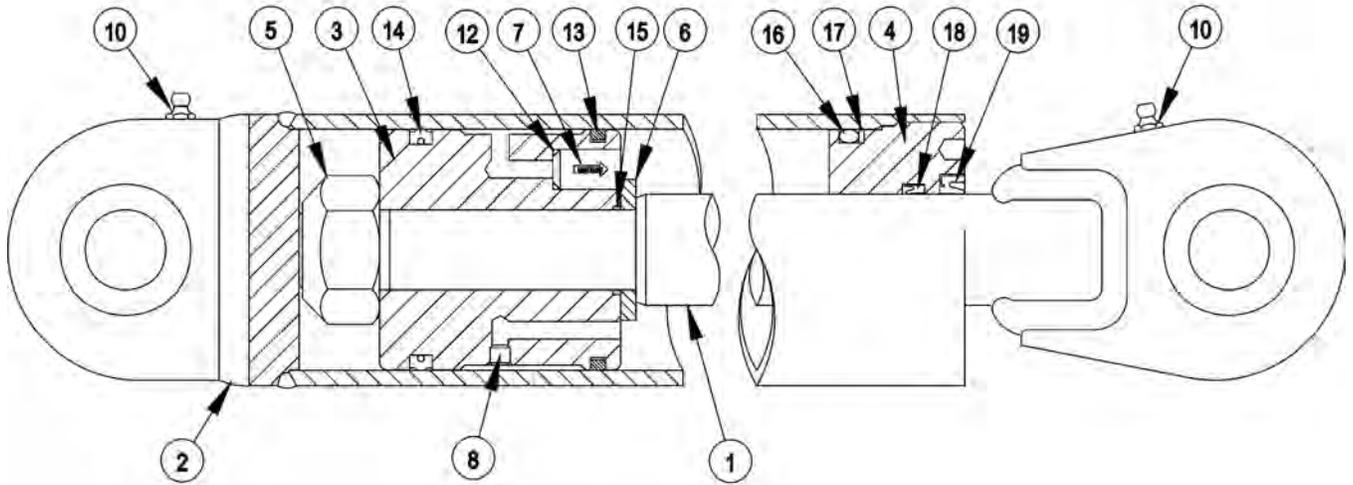


## BOOM FLAIL PIVOT ASSEMBLY

Continued...

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

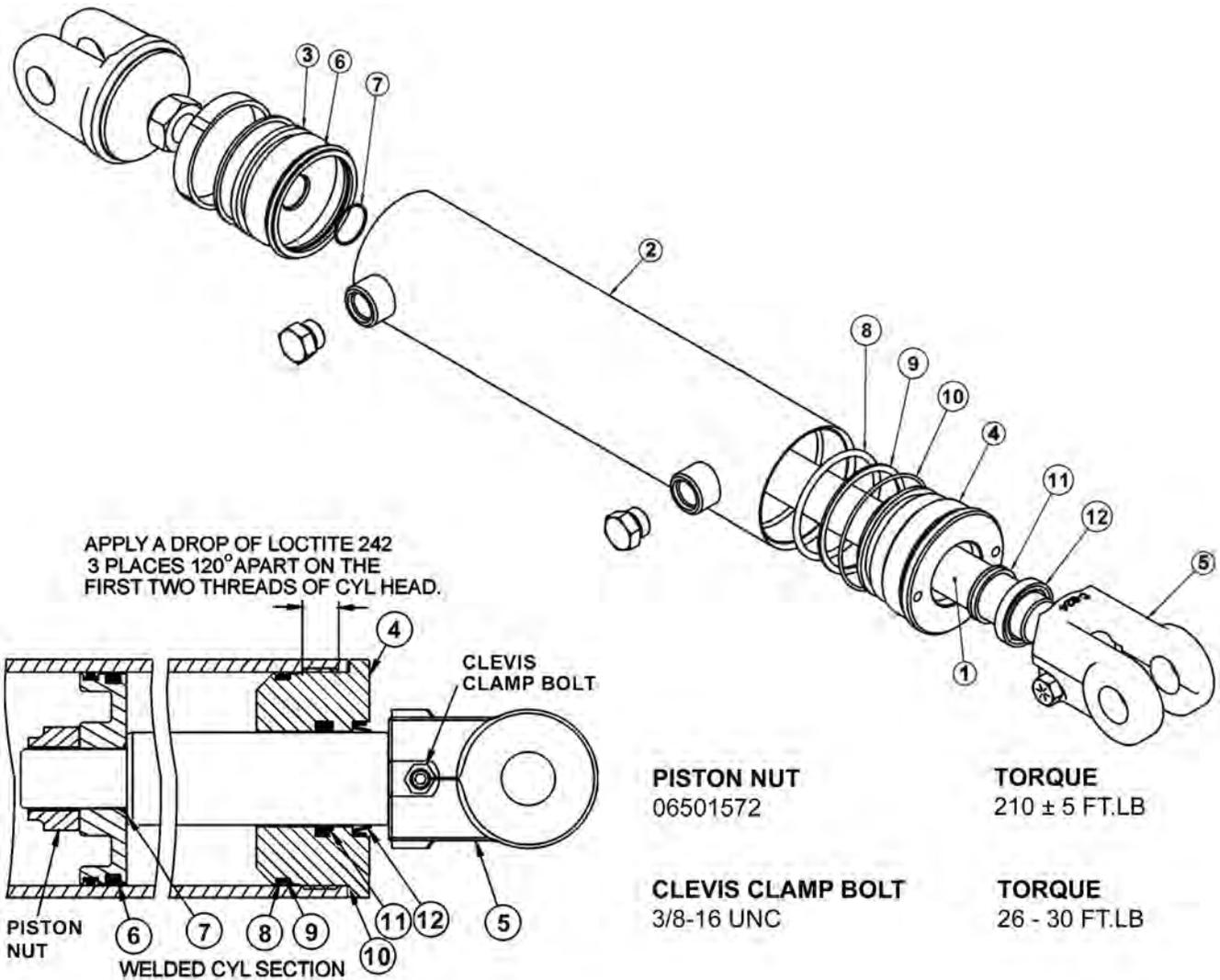
## 3IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN



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

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

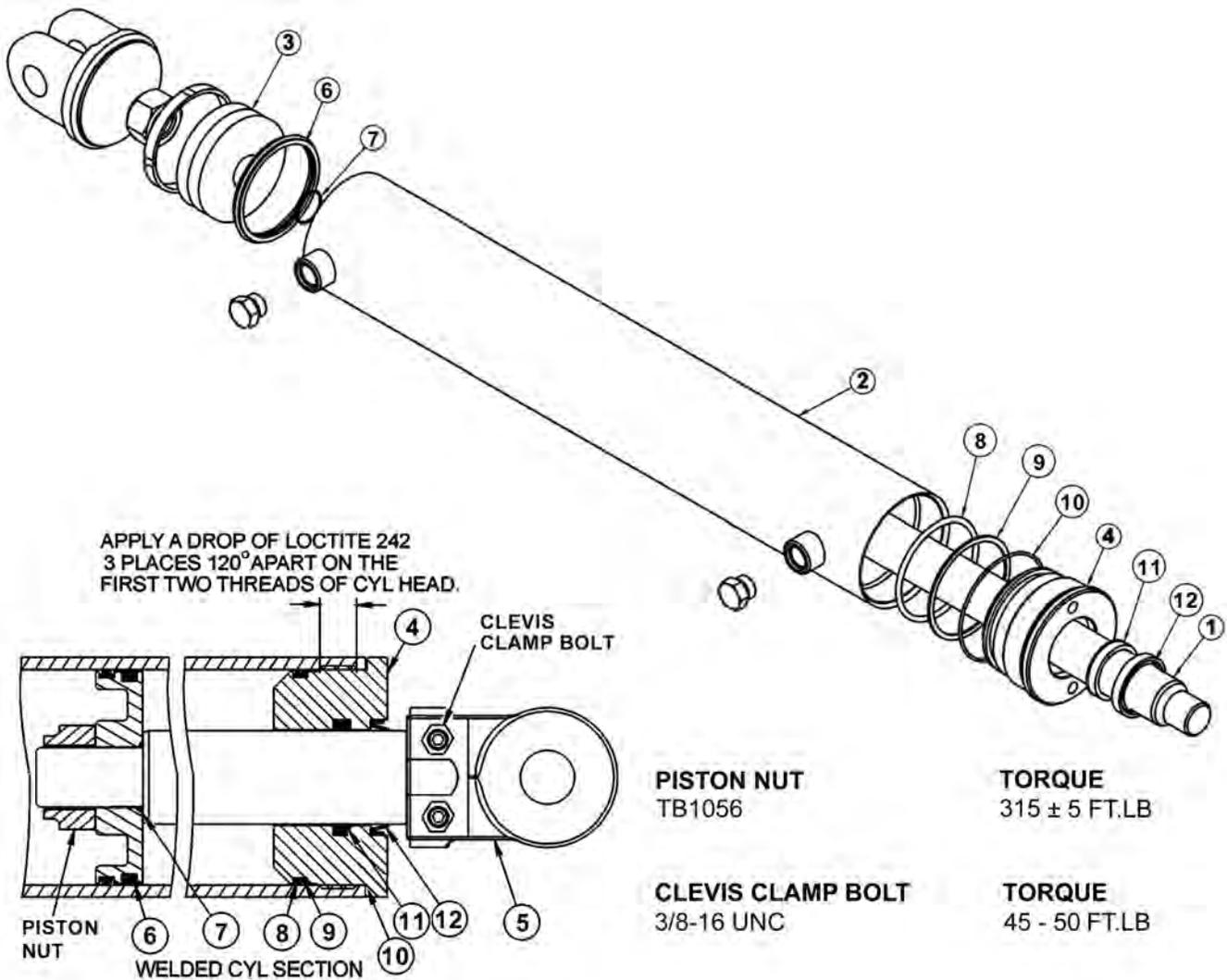
## 3IN X 18IN WELDED CYLINDER BREAKDOWN



**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) |

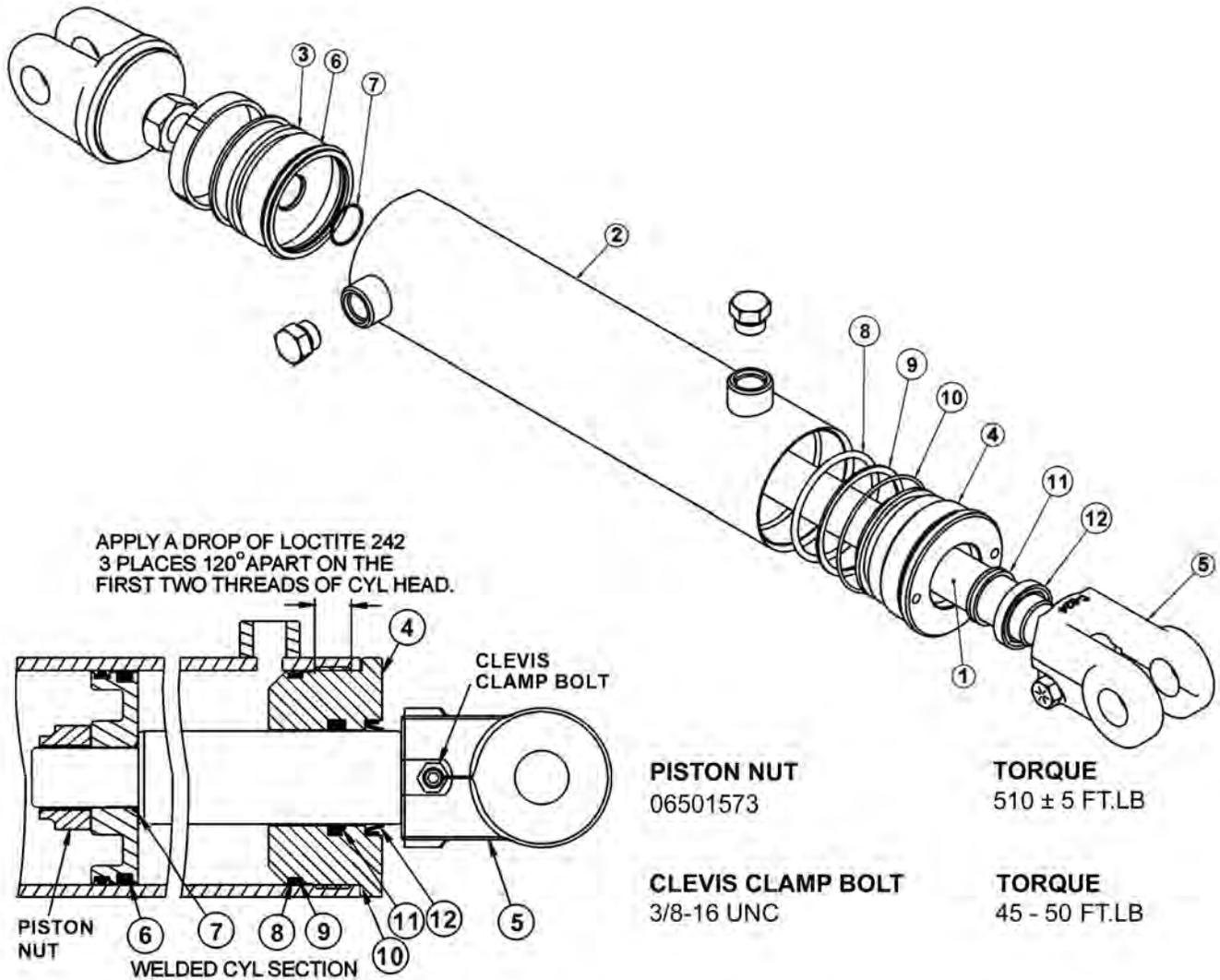
### 3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



**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) |

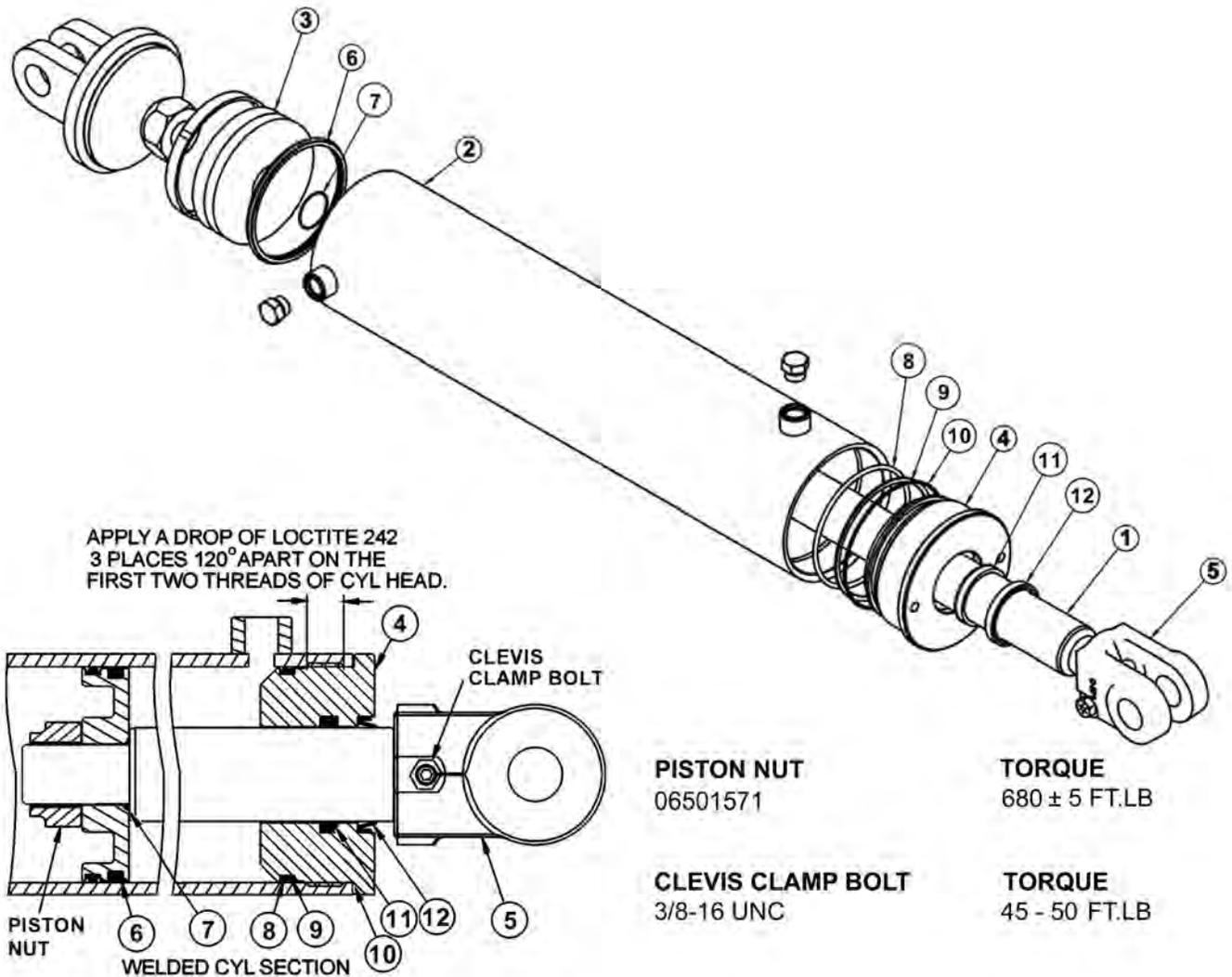
## 4IN X 20IN WELDED CYLINDER BREAKDOWN



**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) |

## 5IN X 20IN WELDED CYLINDER BREAKDOWN



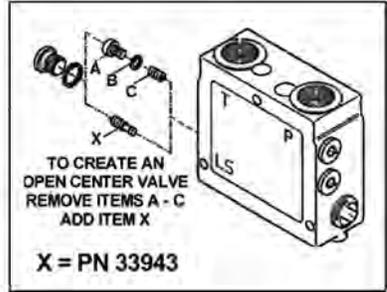
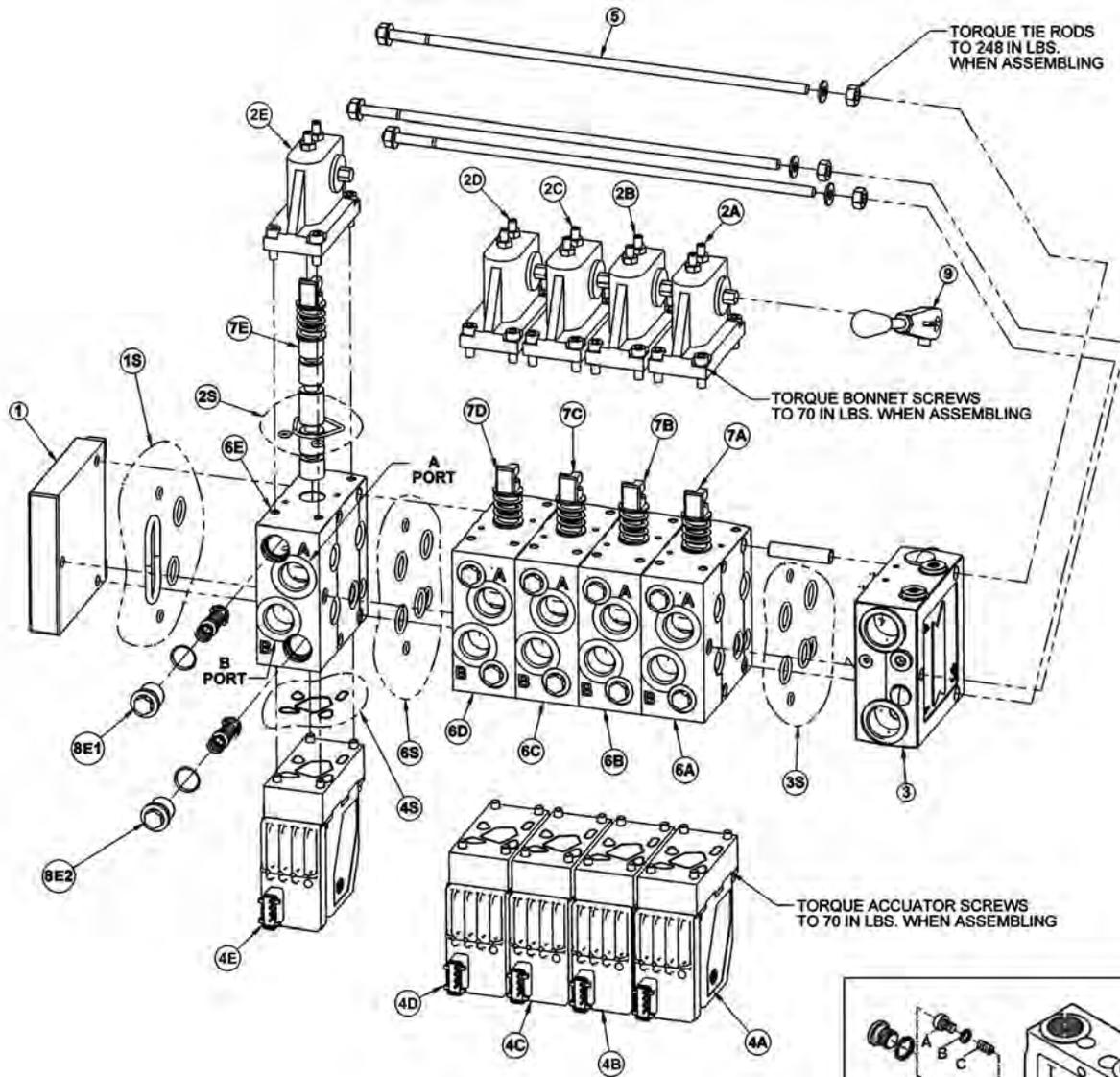
**WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.**

| ITEM  | PART NO. | QTY. | DESCRIPTION                          |
|-------|----------|------|--------------------------------------|
| ----- | 06501020 | -    | HYDRAULIC CYLINDER COMPLETE          |
| 1     | 06501544 | 1    | ROD                                  |
| 2     | 06501545 | 1    | TUBE WELDMENT                        |
| 3     | 06501546 | 1    | PISTON                               |
| 4     | 06501547 | 1    | CYLINDER HEAD                        |
| 5     | 06501548 | 1    | CLEVIS                               |
| ----- | 06501549 | -    | SEAL REPAIR KIT (ITEMS 6 THROUGH 12) |

**NOTES**

**NOTES**

# 5 SPOOL ELECTRONIC VALVE - OPEN STOW,3PS



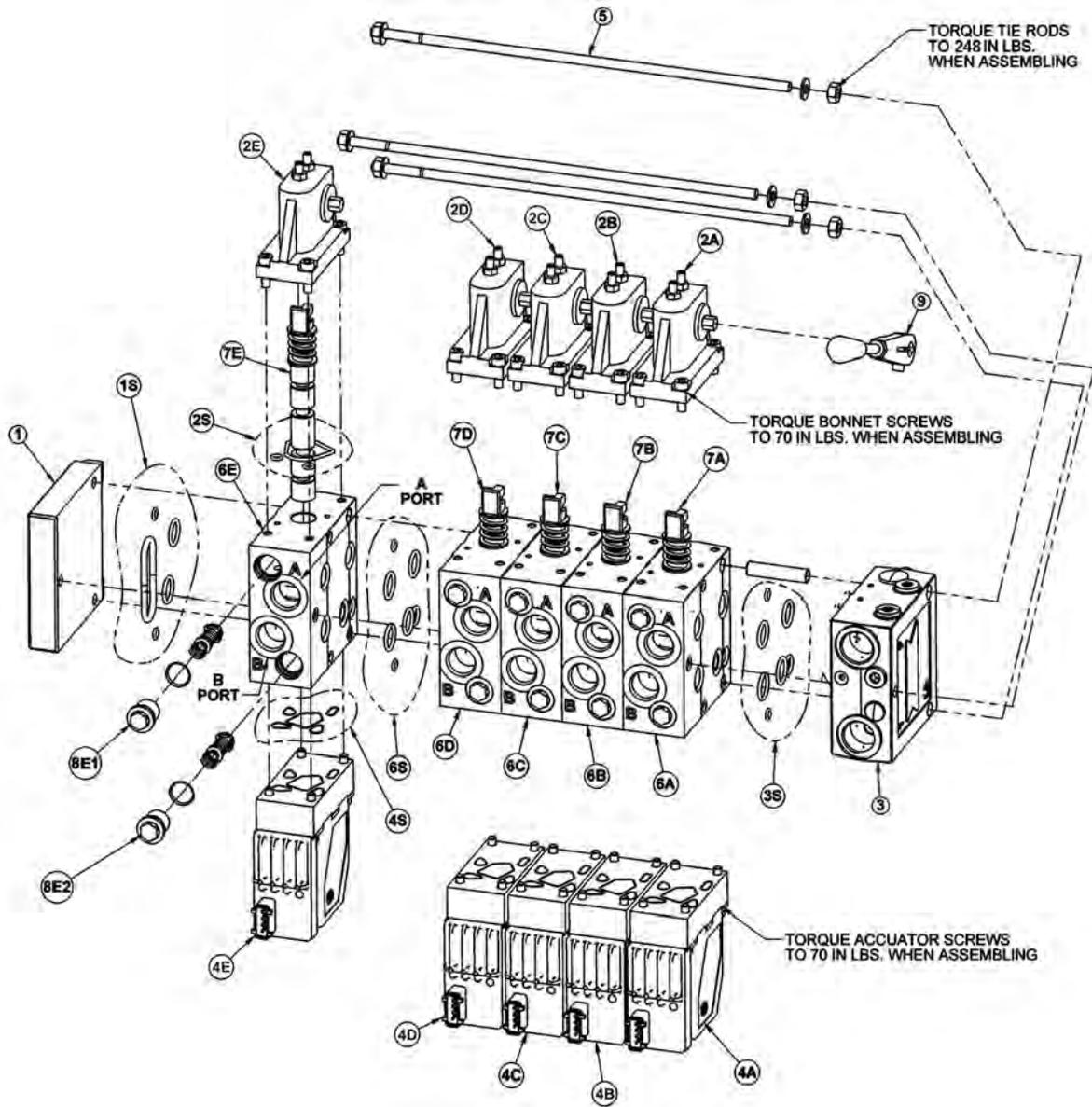
| ITEM  | PART NO. | QTY. | DESCRIPTION         |
|-------|----------|------|---------------------|
| ----  | 06700224 | -    | VALVE, 5SP, OS      |
| ----- | 06502097 | -    | VALVE, SUB-ASSEMBLY |
| 1     | 06502074 | 1    | END PLATE           |
| 1S    | 06505013 | 1    | END PLATE SEAL KIT  |
|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

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

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                        |
|------|----------|------|------------------------------------|
| 2A   | 42197    | 1    | MAIN BOOM BONNET                   |
| 2B   | 42197    | 1    | SECONDARY BOOM BONNET              |
| 2C   | 42197    | 1    | DECK ROLL BONNET                   |
| 2D   | 42197    | 1    | BOOM SWIVEL BONNET                 |
| 2E   | 42197    | 1    | DECK SHIELD BONNET                 |
| 3    | 34308    | 1    | INLET SECTION                      |
| 3S   | 06505013 | 1    | INLET SECTION SEAL KIT             |
| 4    | -----    | 5    | ELECTRONIC ACCUATOR                |
| 4A   | 06502101 | 1    | MAIN BOOM ELECTRONIC ACCUATOR      |
| 4B   | 06502101 | 1    | SECONDARY BOOM ELECTRONIC ACCUATOR |
| 4C   | 06502100 | 1    | DECK ROLL ELECTRONIC ACCUATOR      |
| 4D   | 06502101 | 1    | BOOM SWIVEL ELECTRONIC ACCUATOR    |
| 4E   | 06502099 | 1    | DECK SHIELD ELECTRONIC ACCUATOR    |
| 5    | 42202    | 1    | TIE-BOLT KIT                       |
| 6    | -----    | 5    | SECTION                            |
| 6S   | 06505013 | 1    | SECTION SEAL KIT                   |
| 6A   | 42698    | 1    | MAIN BOOM SECTION                  |
| 6B   | 42698    | 1    | SEC BOOM SECTION                   |
| 6C   | 06502076 | 1    | DECK ROLL SECTION                  |
| 6D   | 42698    | 1    | BOOM SWIVEL SECTION                |
| 6E   | 06502077 | 1    | SHIELD SECTION                     |
| 7    | -----    | 5    | SPOOL                              |
| 7A   | 42697    | 1    | MAIN BOOM SPOOL                    |
| 7B   | 42697    | 1    | SEC BOOM SPOOL                     |
| 7C   | 4242106  | 1    | DECK ROLL SPOOL                    |
| 7D   | 06502073 | 1    | BOOM SWIVEL SPOOL                  |
| 7E   | 42201    | 1    | DECK SHIELD SPOOL                  |
| 8    | -----    | 10   | ANTI CAV/SHOCK RELIEF              |
| 8A1  | 06502084 | 1    | MAIN BOOM A PORT RELIEF            |
| 8A2  | 06502081 | 1    | MAIN BOOM B PORT RELIEF            |
| 8B1  | 42296    | 1    | SEC BOOM A PORT RELIEF             |
| 8B2  | 06502082 | 1    | SEC BOOM B PORT RELIEF             |
| 8C1  | 42295    | 1    | DECK ROLL A PORT RELIEF            |
| 8C2  | 06502082 | 1    | DECK ROLL B PORT RELIEF            |
| 8D1  | 06502070 | 1    | BOOM SWIVEL A PORT RELIEF          |
| 8D2  | 06502083 | 1    | BOOM SWIVEL B PORT RELIEF          |
| 8E1  | 06502081 | 1    | DECK SHIELD A PORT RELIEF          |
| 8E2  | 06502081 | 1    | DECK SHIELD B PORT RELIEF          |
| 9    | 33459    | 1    | HANDLE                             |

## 5 SPOOL ELECTRONIC VALVE - SIDE STOW



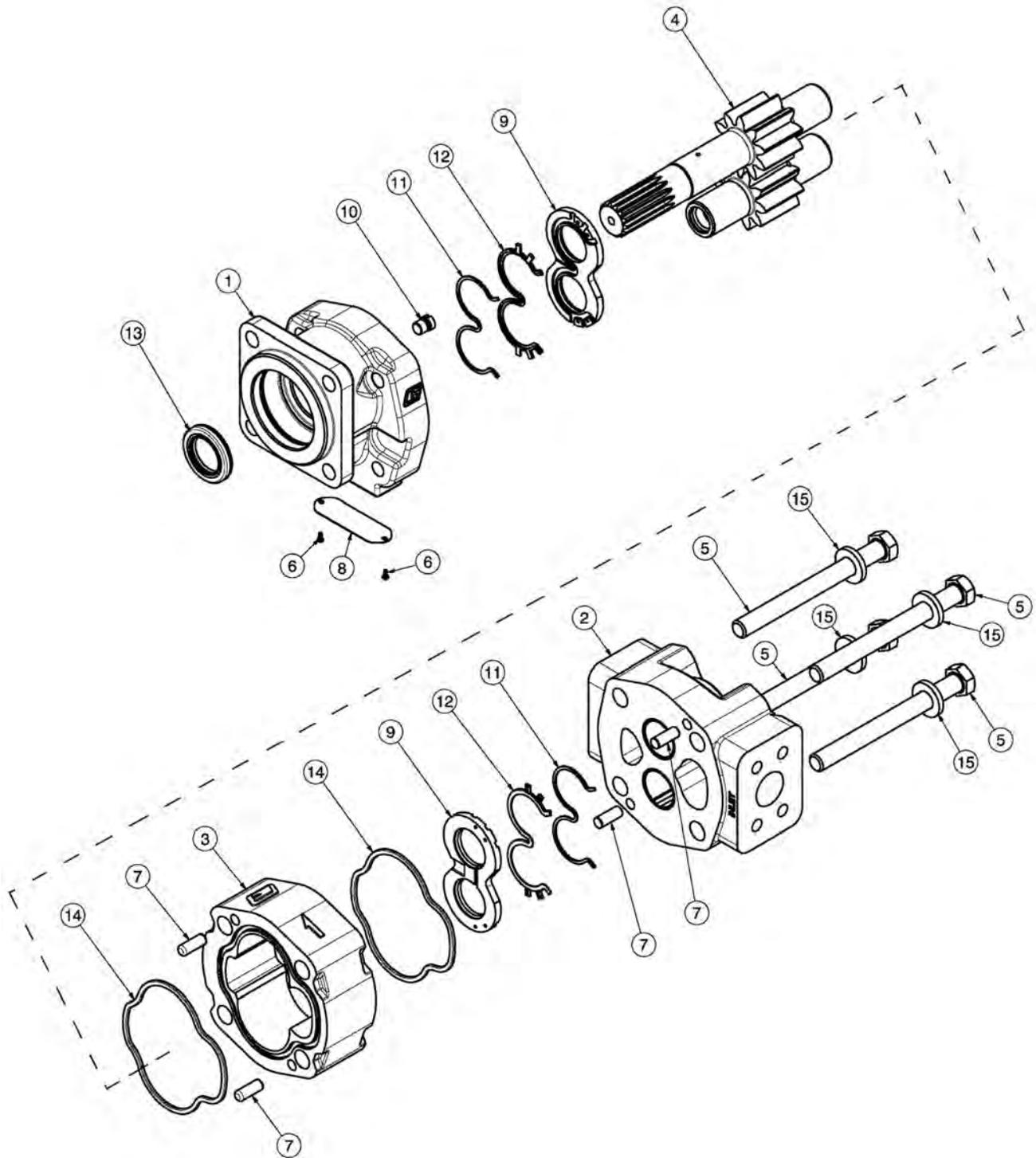
| ITEM  | PART NO. | QTY. | DESCRIPTION             |
|-------|----------|------|-------------------------|
| ----- | 06502096 | -    | VLV,5SP,32PVG,SIDE STOW |
| 1     | 06502074 | 1    | END PLATE               |
| 1S    | 06505013 | 1    | END PLATE SEAL KIT      |
| 2     | -----    | 5    | BONNET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

## 5 SPOOL ELECTRONIC VALVE - SIDE STOW

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                        |
|------|----------|------|------------------------------------|
| 3    | 34308    | 1    | INLET SECTION                      |
| 3S   | 06505013 | 1    | INLET SECTION SEAL KIT             |
| 4    | -----    | 5    | ELECTRONIC ACCUATOR                |
| 4A   | 06502101 | 1    | MAIN BOOM ELECTRONIC ACCUATOR      |
| 4B   | 06502101 | 1    | SECONDARY BOOM ELECTRONIC ACCUATOR |
| 4C   | 06502100 | 1    | DECK ROLL ELECTRONIC ACCUATOR      |
| 4D   | 06502101 | 1    | BOOM SWIVEL ELECTRONIC ACCUATOR    |
| 4E   | 06502099 | 1    | DECK SHIELD ELECTRONIC ACCUATOR    |
| 5    | 42202    | 1    | TIE-BOLT KIT                       |
| 6    | -----    | 5    | SECTION                            |
| 6S   | 06505013 | 1    | SECTION SEAL KIT                   |
| 6A   | 42698    | 1    | MAIN BOOM SECTION                  |
| 6B   | 42698    | 1    | SEC BOOM SECTION                   |
| 6C   | 06502076 | 1    | DECK ROLL SECTION                  |
| 6D   | 42698    | 1    | BOOM SWIVEL SECTION                |
| 6E   | 06502077 | 1    | SHIELD SECTION                     |
| 7    | -----    | 5    | SPOOL                              |
| 7A   | 42697    | 1    | MAIN BOOM SPOOL                    |
| 7B   | 42697    | 1    | SEC BOOM SPOOL                     |
| 7C   | 4242106  | 1    | DECK ROLL SPOOL                    |
| 7D   | 06502073 | 1    | BOOM SWIVEL SPOOL                  |
| 7E   | 42201    | 1    | DECK SHIELD SPOOL                  |
| 8    | -----    | 10   | ANTI CAV/SHOCK RELIEF              |
| 8A1  | 42650    | 1    | MAIN BOOM A PORT RELIEF            |
| 8A2  | 06502069 | 1    | MAIN BOOM B PORT RELIEF            |
| 8B1  | 42650    | 1    | SEC BOOM A PORT RELIEF             |
| 8B2  | 42295    | 1    | SEC BOOM B PORT RELIEF             |
| 8C1  | 42296    | 1    | DECK ROLL A PORT RELIEF            |
| 8C2  | 42295    | 1    | DECK ROLL B PORT RELIEF            |
| 8D1  | 42295    | 1    | BOOM SWIVEL A PORT RELIEF          |
| 8D2  | 42295    | 1    | BOOM SWIVEL B PORT RELIEF          |
| 8E1  | 06502069 | 1    | DECK SHIELD A PORT RELIEF          |
| 8E2  | 06502069 | 1    | DECK SHIELD B PORT RELIEF          |
| 9    | 33459    | 1    | HANDLE                             |

# FRONT HYDRAULIC PUMP

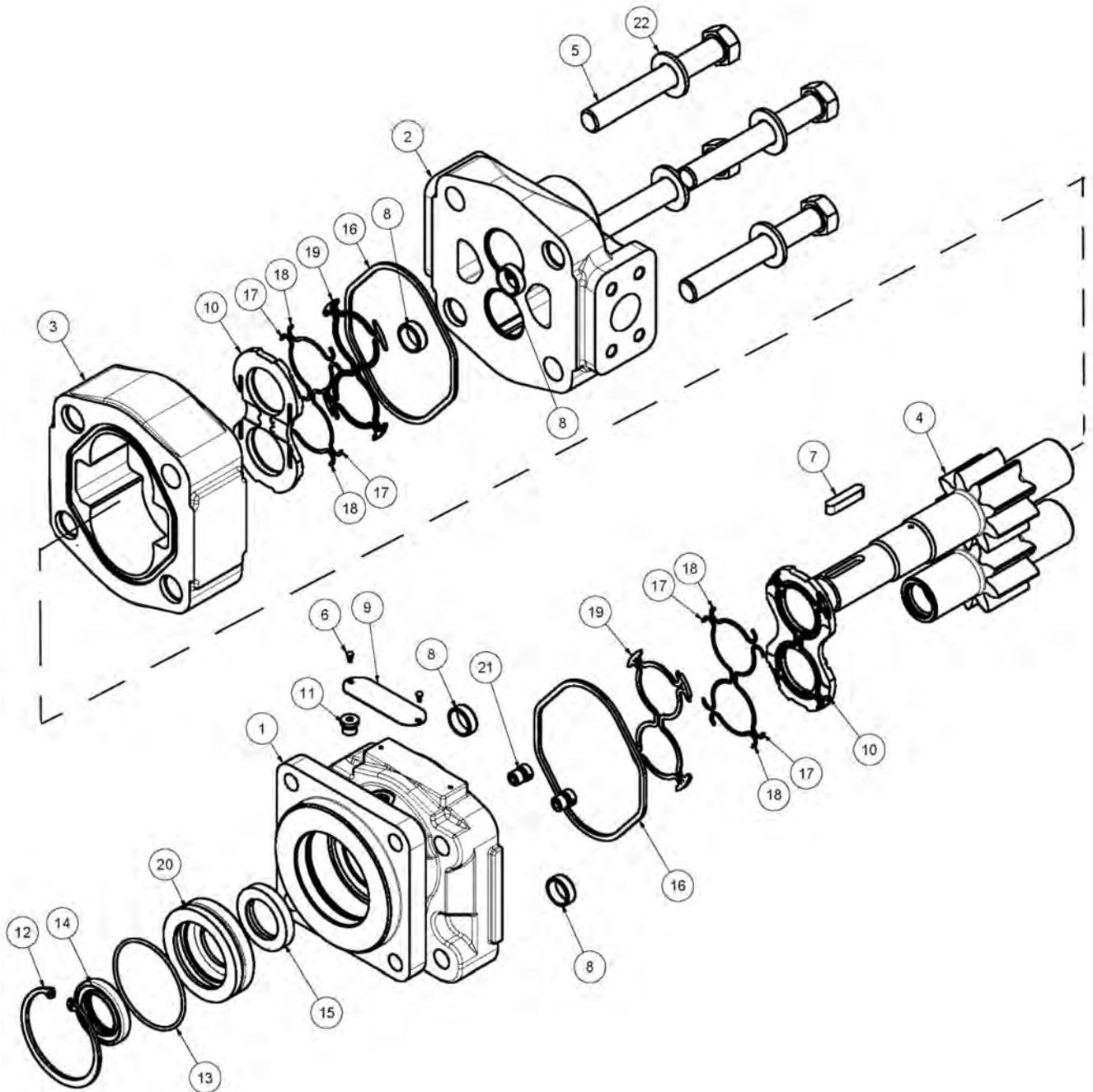


## FRONT HYDRAULIC PUMP

Continued...

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

# 50IN AND 60IN ROTARY MOTOR BREAKDOWN

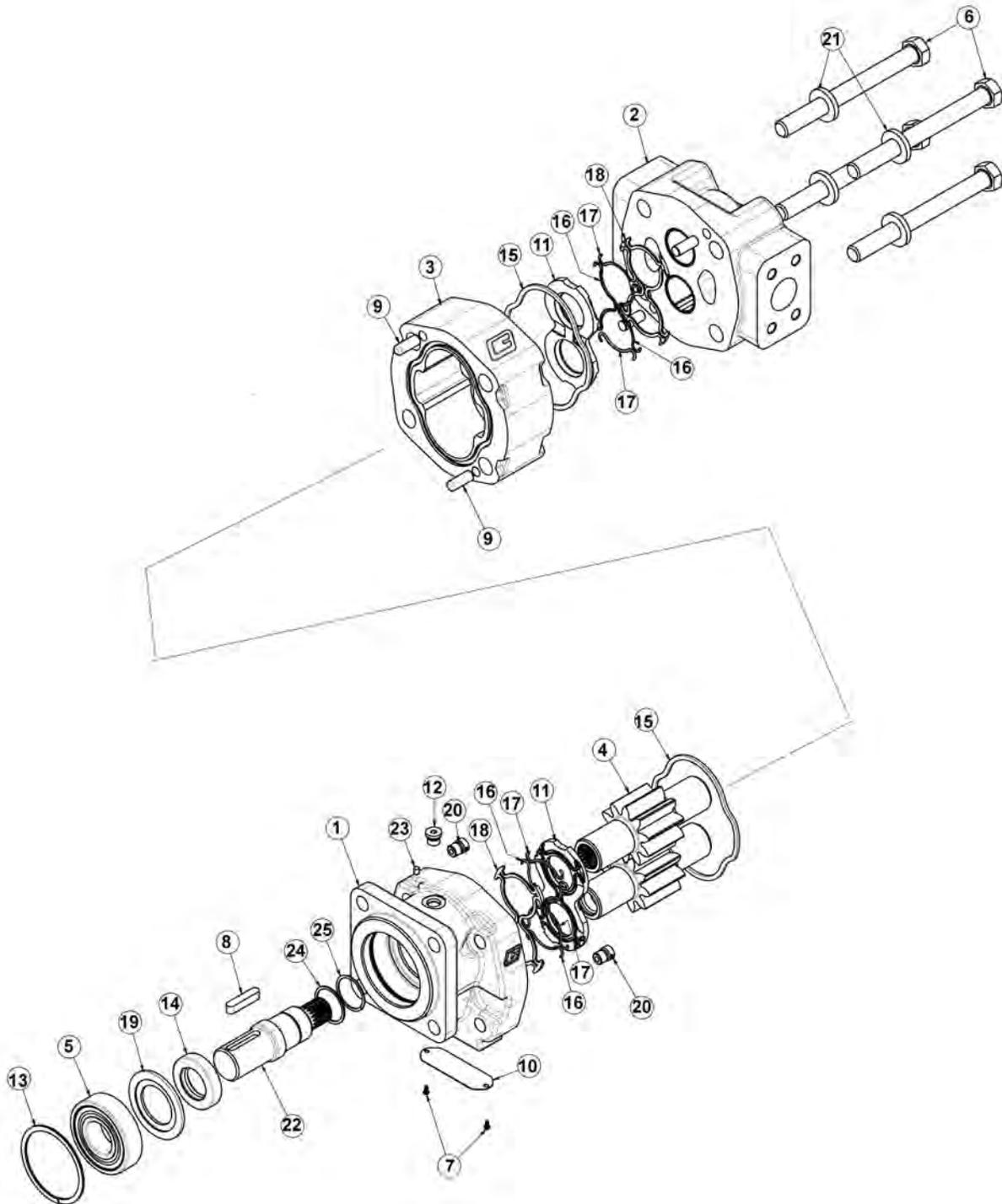


## 50IN AND 60IN ROTARY MOTOR BREAKDOWN

Continued...

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

# FLAIL MOTOR BREAKDOWN

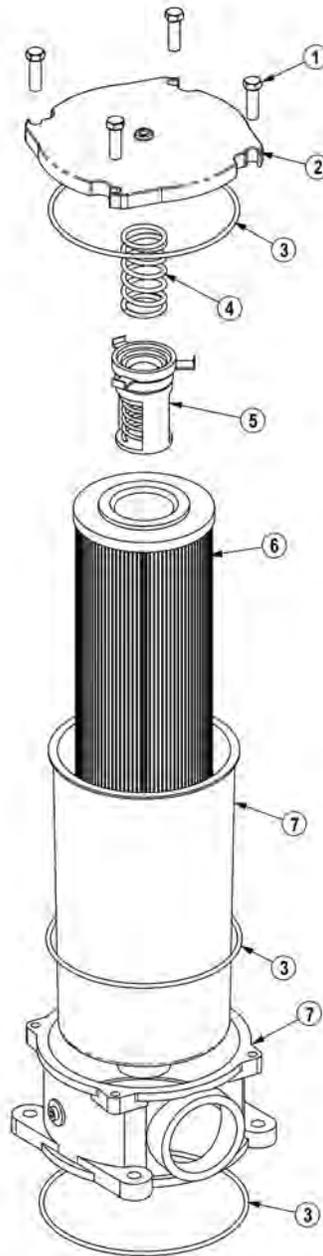


## FLAIL MOTOR BREAKDOWN

Continued...

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

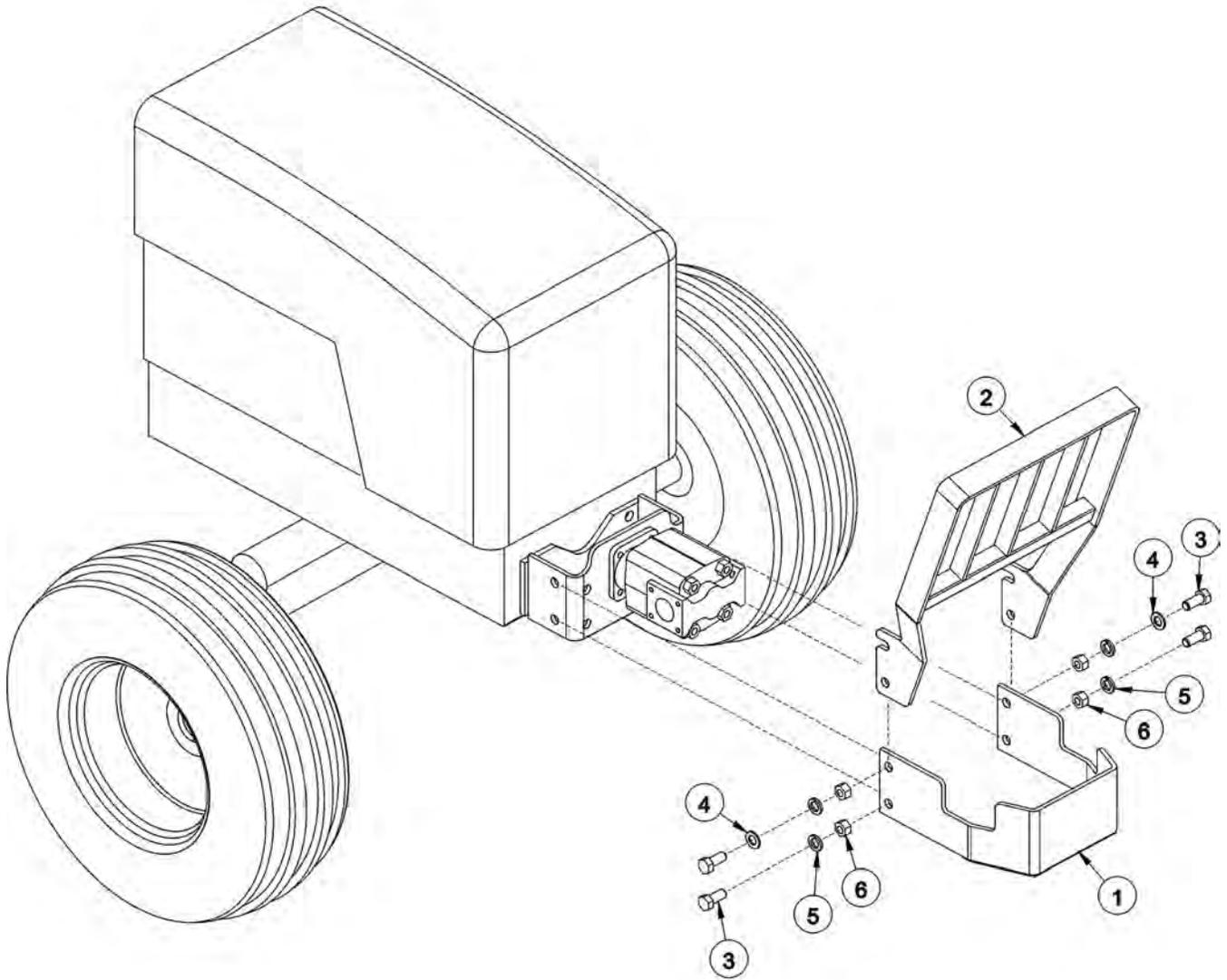
## RESERVOIR TANK FILTER ASSEMBLY



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

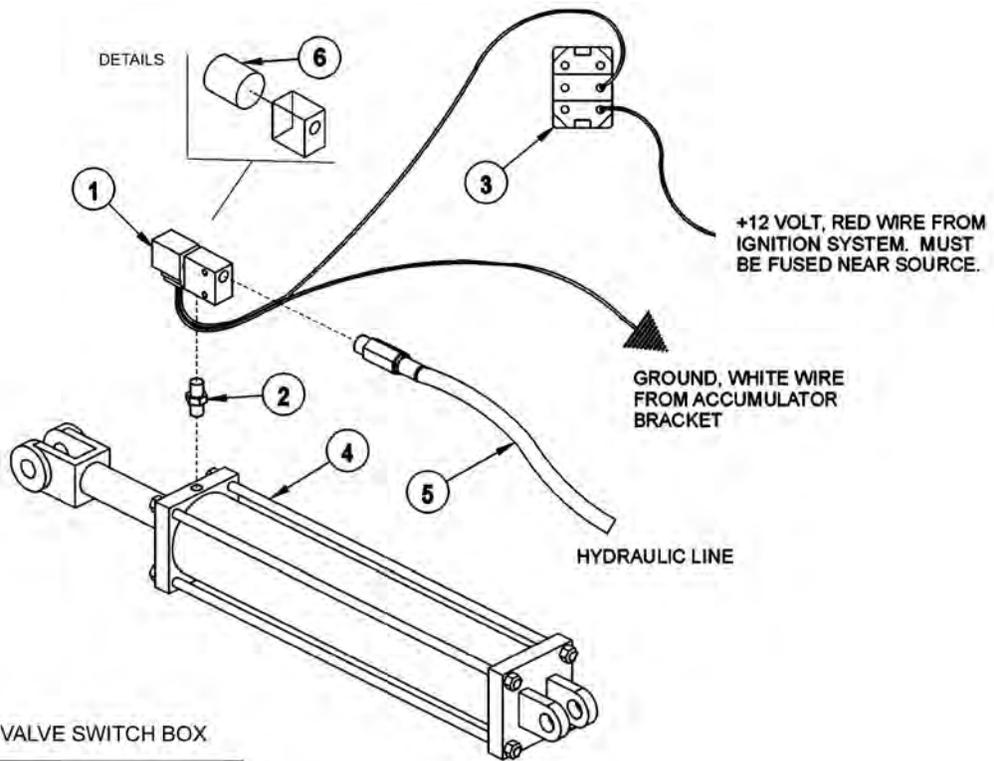
COMMON BENGAL T4

## PUMP AND GRILL GUARD OPTIONS



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

## BOOM TRAVEL LOCK



ELECTRONIC LIFT VALVE SWITCH BOX

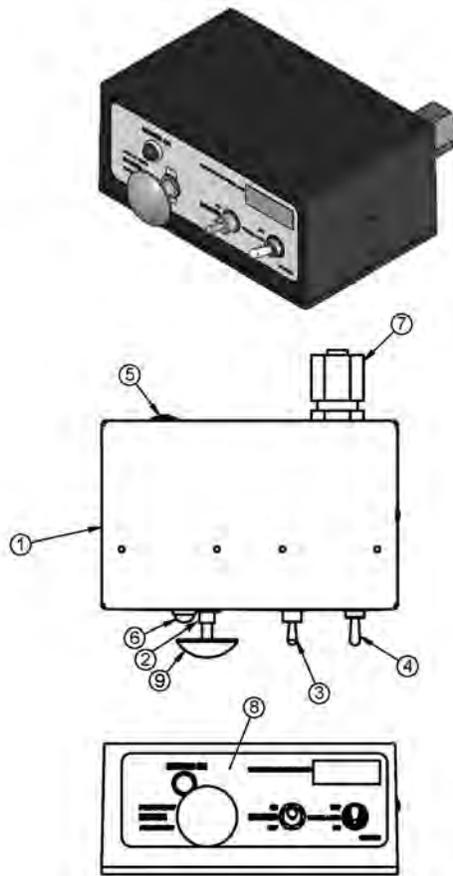


MANUAL LIFT VALVE SWITCH BOX



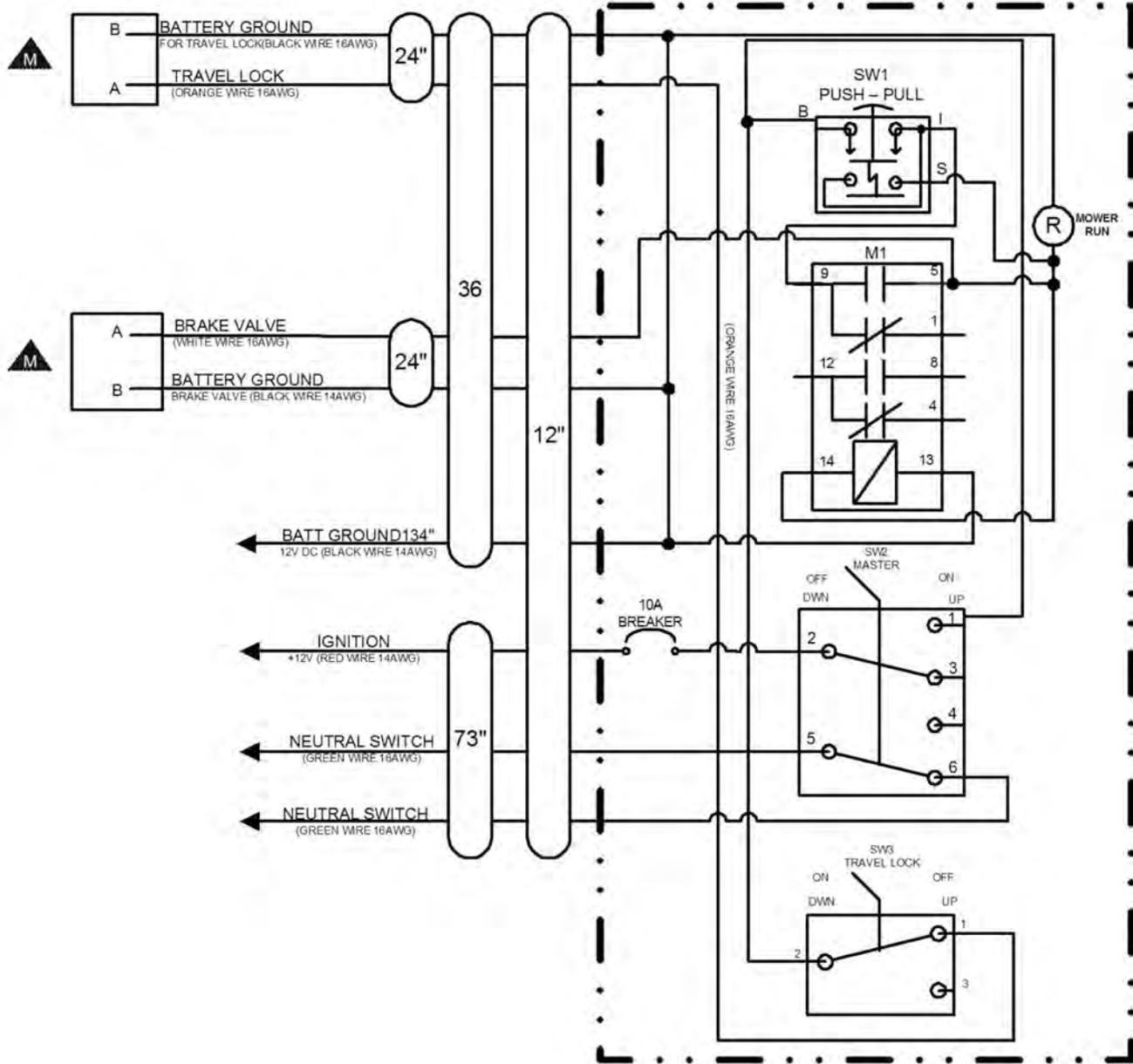
| ITEM  | PART NO. | QTY. | DESCRIPTION                             |
|-------|----------|------|-----------------------------------------|
| 1     | 06510050 | 1    | HYDRAULIC TRAVEL LOCK VALVE             |
| 2     | 31329    | 1    | ADAPTER - STANDARD BOOM                 |
| ----- | 31611    |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

## MANUAL LIFT VALVE SWITCH BOX

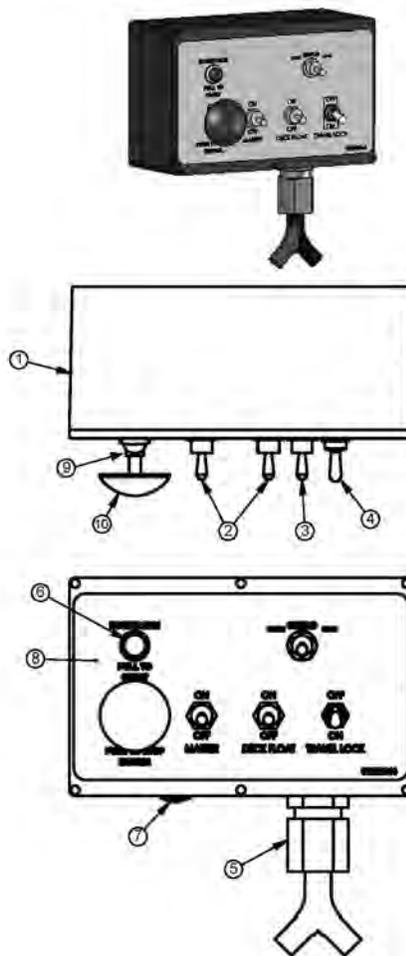


| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | 06514012 | 1    | SWBX,ALUM,BLK,06510100        |
| 2    | 35226    | 1    | SWITCH,MOWER,COLEHERSEE       |
| 3    | 33811    | 1    | SWITCH,MASTER/DECK FLOAT      |
| 4  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

# MANUAL LIFT VALVE SCHEMATIC

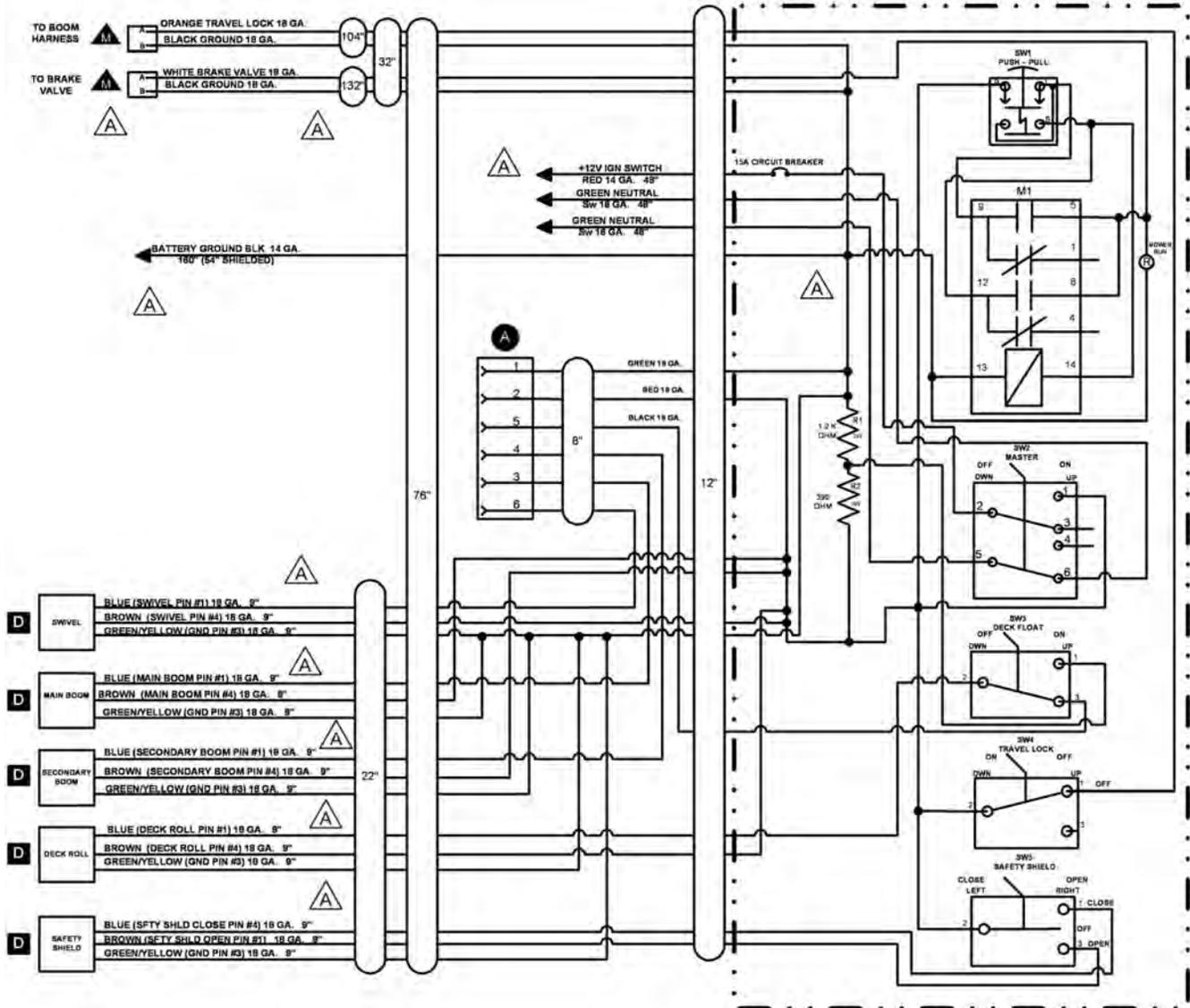


## ELECTRONIC LIFT VALVE SWITCH BOX

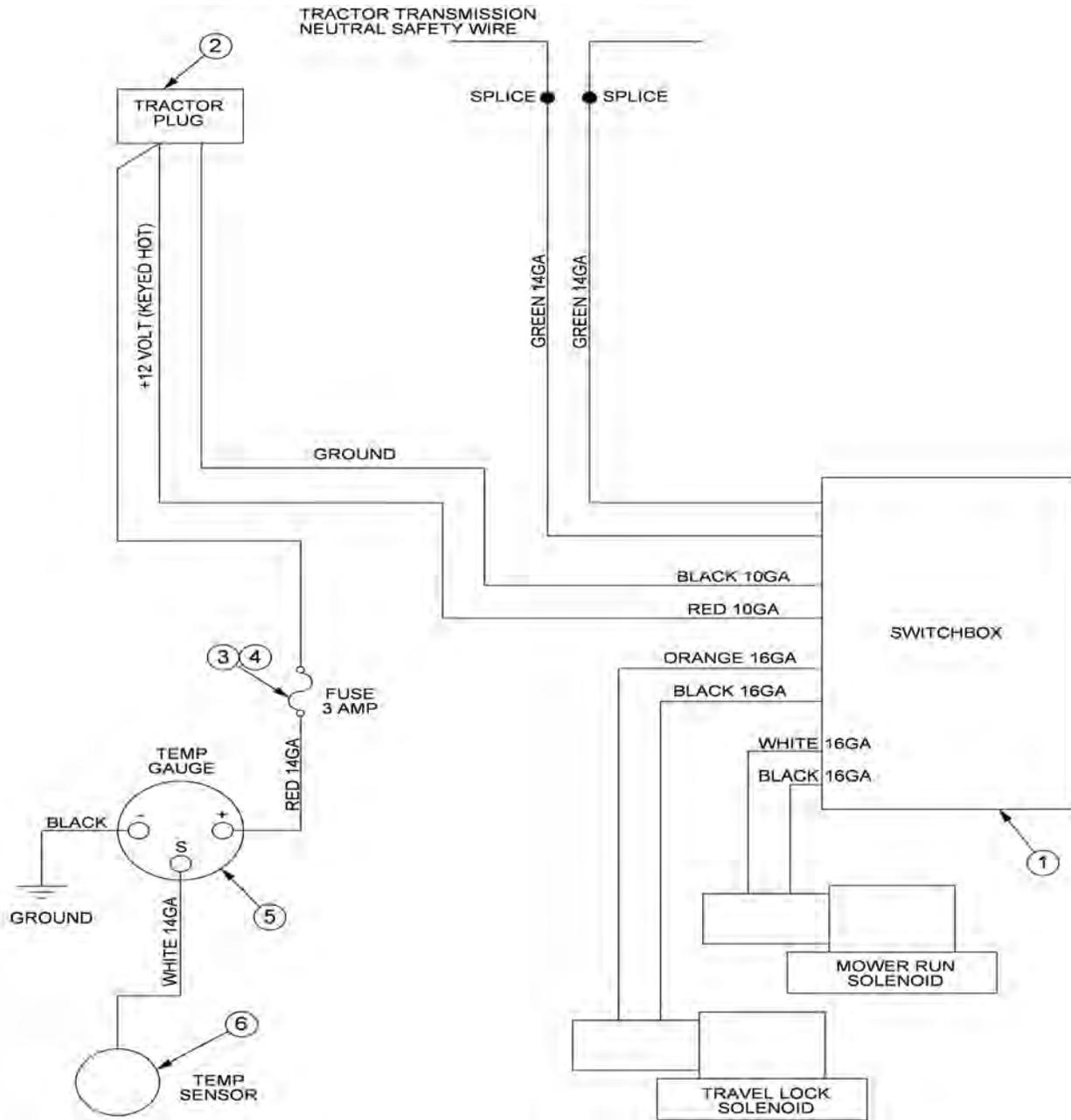


| ITEM | PART NO. | QTY. | DESCRIPTION                    |
|------|----------|------|--------------------------------|
| 1    | 06510196 | 1    | SWBX,ASSY                      |
| 2    | 33811    | 2    | SWITCH,MASTER/DECK FLOAT       |
| 3    | 33813    | 1    | SWITCH,SFTY SHIELD             |
|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

# ELECTRONIC LIFT VALVE SCHEMATIC

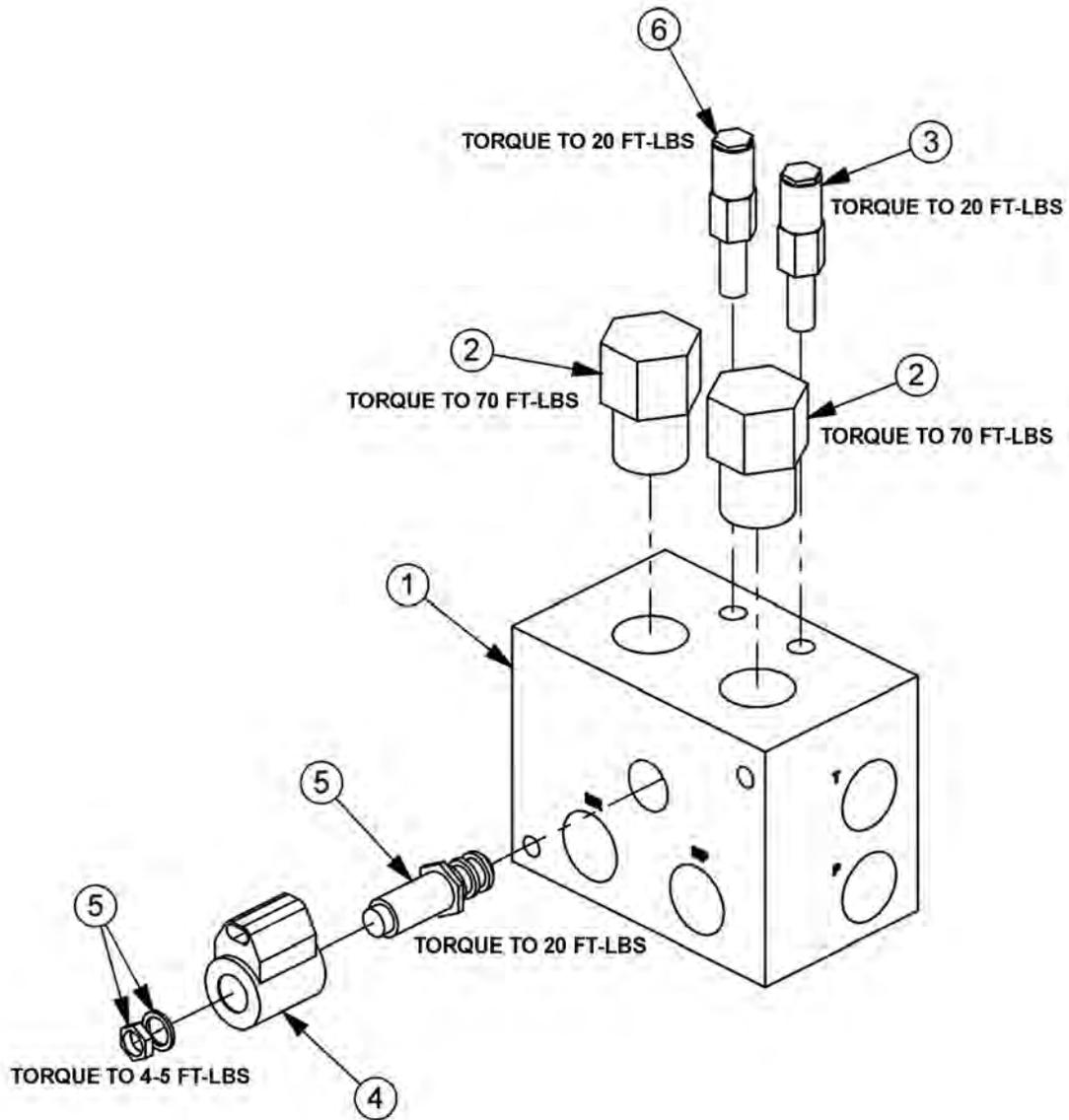


## SOLENOID SWITCH BOX AND WIRING



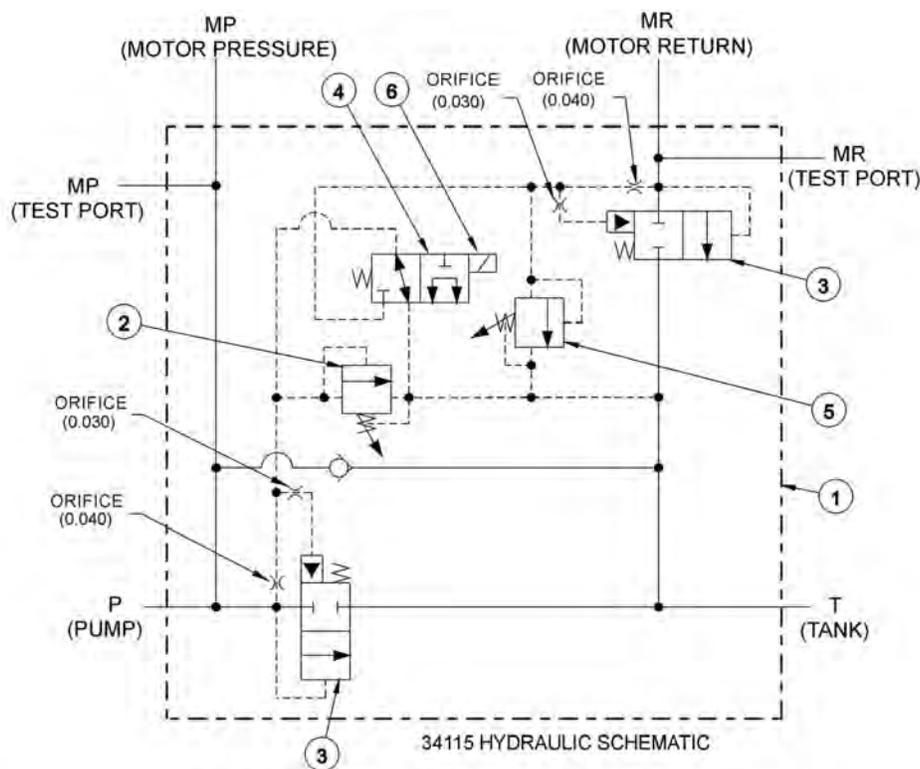
| ITEM | PART NO. | QTY. | DESCRIPTION                  |
|------|----------|------|------------------------------|
| 1    | -----    | -    | SWITCH BOX                   |
| 2    | RE37651  | 1    | PLUG,AUX PWR                 |
| 3    | 24204    | -    | FUSE HOLDER,IN-LINE (OPTION) |
| 4    | 6T3965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

## 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                                 |

## BRAKE VALVE HYDRAULIC SCHEMATIC



### BRAKE VALVE TROUBLESHOOTING

#### FAILURE MODE:

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

#### CHECK STEPS

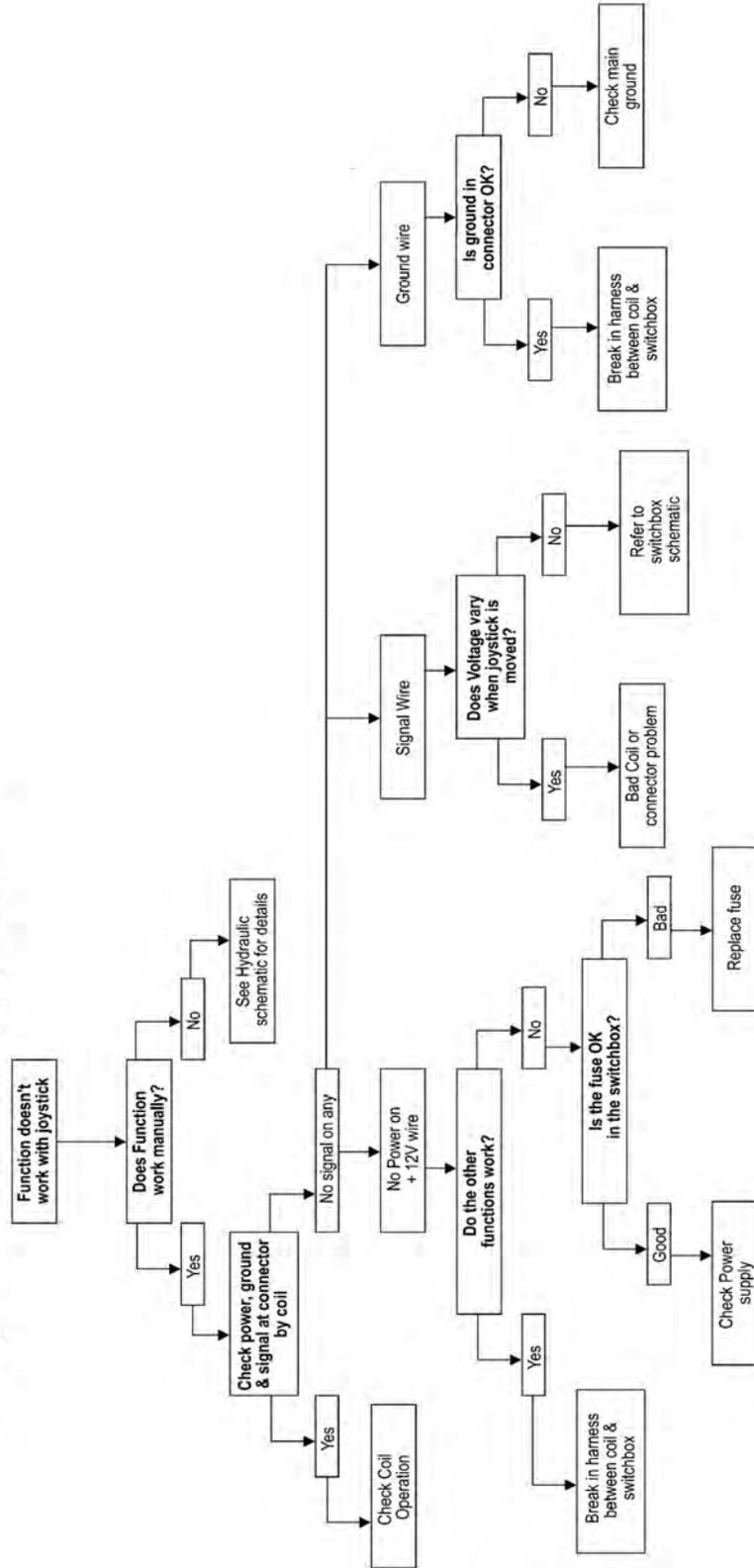
- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

#### 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.

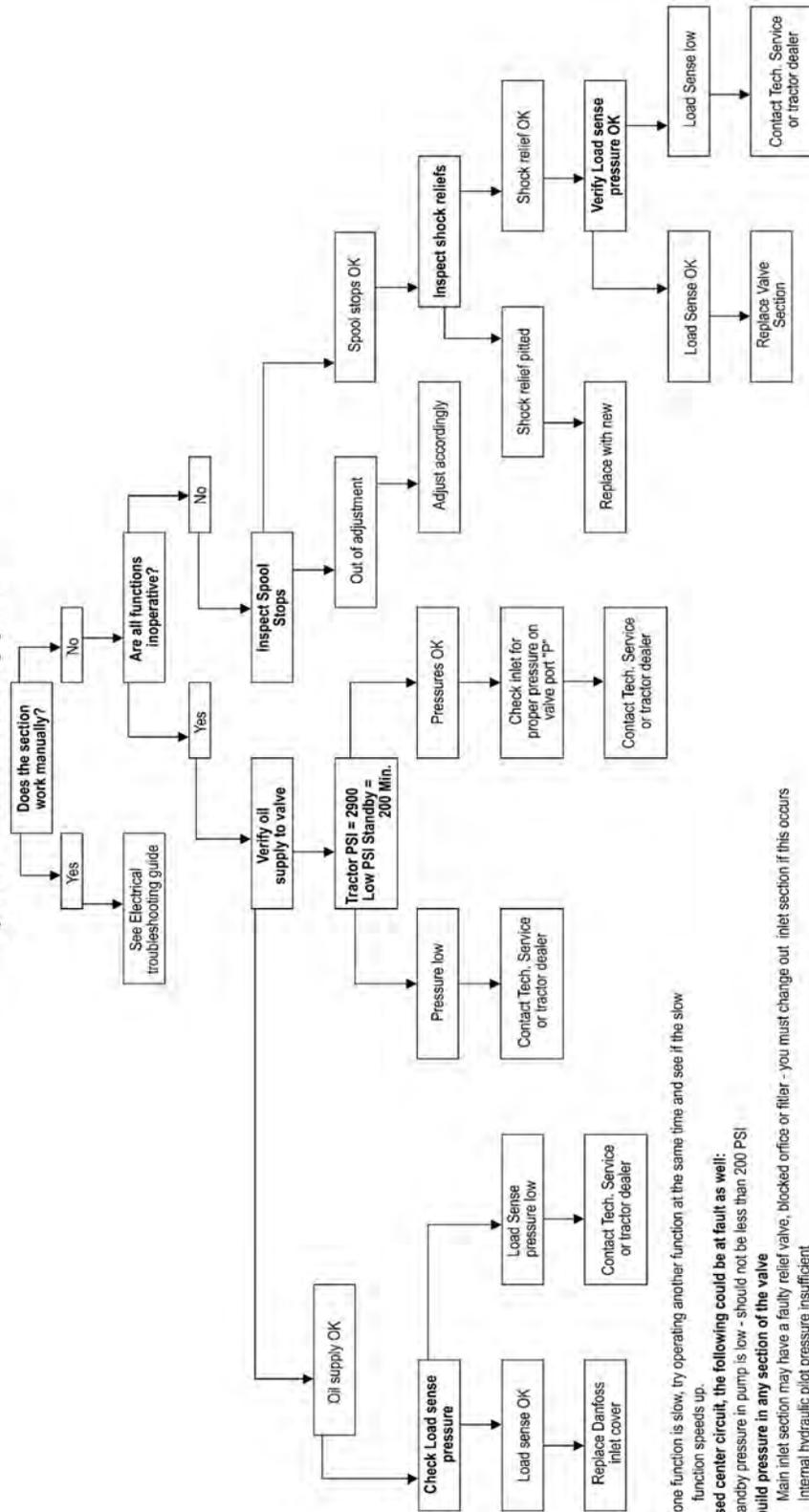
# ELECTRICAL TROUBLESHOOTING GUIDE

## Joystick Electrical Troubleshooting guide



# HYDRAULIC TROUBLESHOOTING GUIDE

## Hydraulic Troubleshooting guide



**Notes:** If one function is slow, try operating another function at the same time and see if the slow function speeds up.

**On a closed center circuit, the following could be at fault as well:**  
Tractor standby pressure in pump is low - should not be less than 200 PSI

**Cannot build pressure in any section of the valve**

Main inlet section may have a faulty relief valve, blocked orifice or filter - you must change out inlet section if this occurs  
Internal hydraulic pilot pressure insufficient

### 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 be approximately 200 psi higher than LS. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

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

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

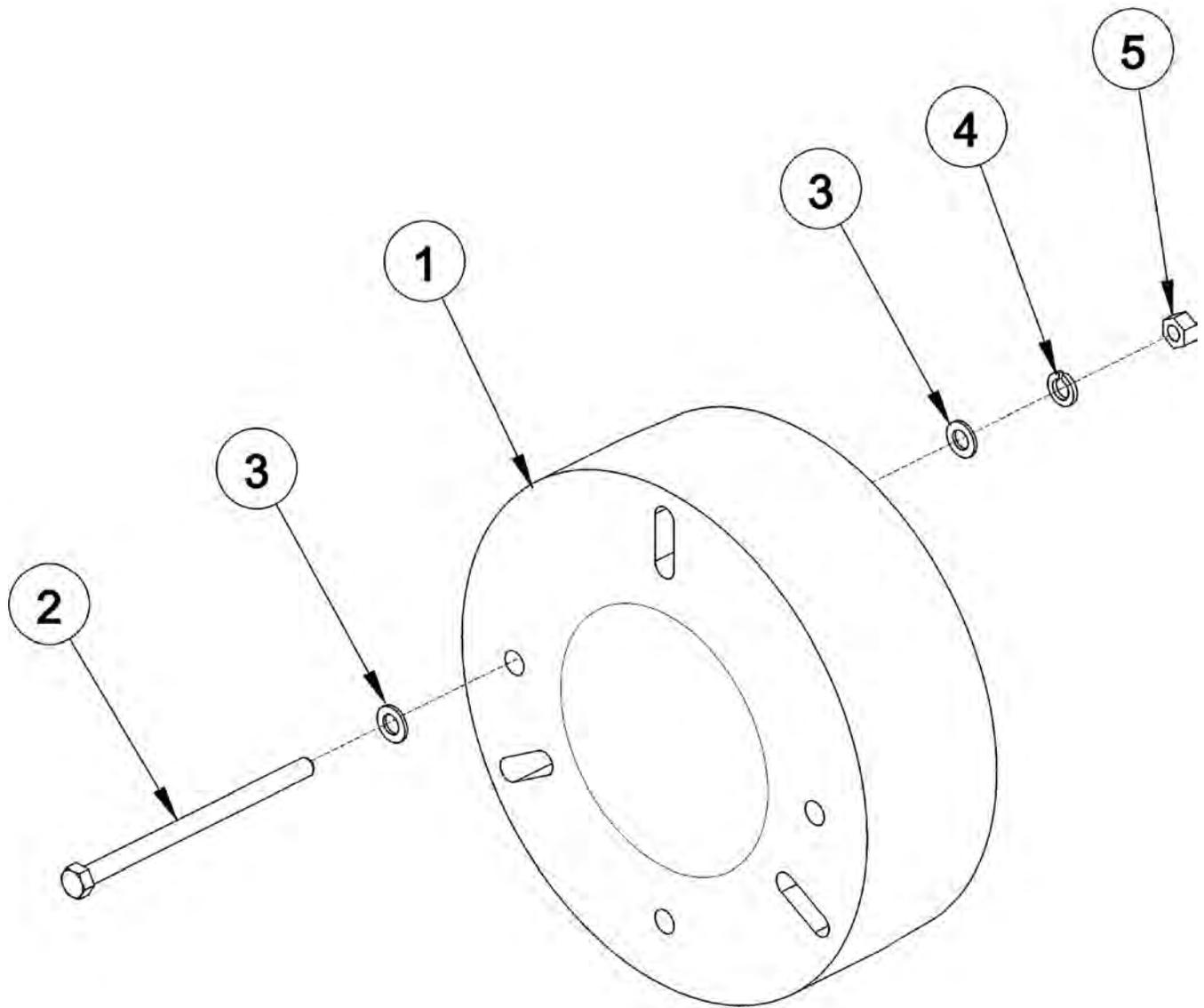
### Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

# WHEEL WEIGHT - BENGAL 18



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

COMMON BENGAL T4



## **TIGER CORPORATION**

### **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 been subject to misuse, neglect, accident, improper maintenance or improper operation.

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

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

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

It is the Purchaser's 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.

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





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