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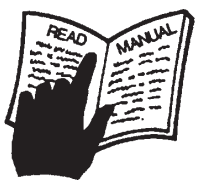



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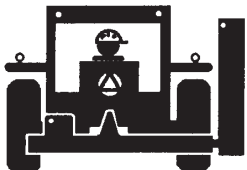


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DANGER

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

<p>5. TRANSPORT SAFELY, LOCK UP. </p>	<p>6. USE SMV, LIGHTS, & REFLECTORS. </p>	<p>7. DO NOT OPERATE WITH CUTTER OR WING RAISED. </p>	<p>8. DO NOT MOUNT OR DISMOUNT WHILE MOVING. </p>
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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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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

SAFETY SECTION

SAFETY

General Safety Instructions and Practices

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



1000

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.

DANGER!



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

WARNING!



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

CAUTION!



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

IMPORTANT!

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

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

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. (SG-3)



¡ LEA EL INSTRUCTIVO!

DANGER!



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel to operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)



WARNING!



Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. (SG-5)

WARNING!



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



WARNING!



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



WARNING!

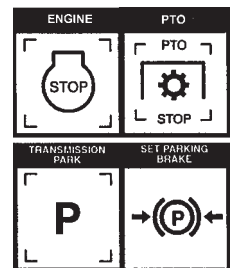


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

DANGER!



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



SAFETY

DANGER!



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

(SG-10)



DANGER!



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

(SG-11)



WARNING!



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

12)

(SG-



DANGER!



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

(SG-13)



DANGER!



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

(SG-14)



DANGER!



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

(SG-15)

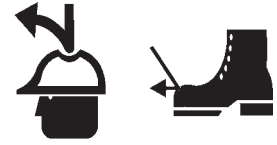


SAFETY

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. (SG-16)



CAUTION!



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



WARNING!



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



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

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



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

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.

(SG-20)

WARNING!



Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins are properly secured. Serious injury may occur from not maintaining this machine in good working order. (SG-21)



WARNING!



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



DANGER!



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

(SG-23)

DANGER!



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

(SG-24)



DANGER!



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

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. (SG-27)



DANGER!



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

WARNING!



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

DANGER!



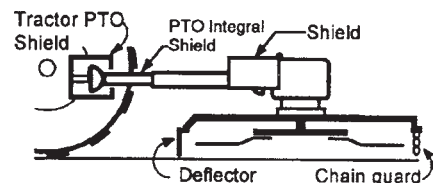
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless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



DANGER!



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



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. (SGM-4)

WARNING!



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



WARNING!



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

WARNING!



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

WARNING!



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

WARNING!



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



DANGER!



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

SAFETY

WARNING!



Do not mow with two machines in the same area except with Cab tractors with the windows closed. (SGM-11)

DANGER!



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

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



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



DANGER!



Use extreme caution when raising the Mower head. Stop the Blades from turning when the Mower Head is raised and passersby are within 100 yards. Raising the Mower head exposes the Cutting Blades which creates a potentially serious hazard and can cause serious injury by objects thrown from the Blades or by contact with the Blades. (SBM-2)

DANGER!



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



WARNING!



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



WARNING!



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

“Wait a minute...Save a life!”

SAFETY

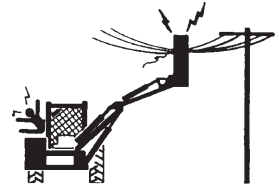


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to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

DANGER!



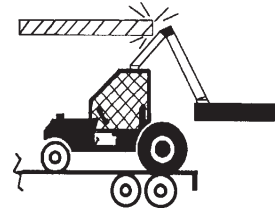
Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation. (SBM-7)



DANGER!



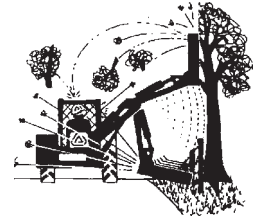
When transporting Boom Mower on a truck or trailer, the height or width may exceed legal limits when the boom is in the transport position. Contact with side or overhead structures or power lines can cause property damage or serious injury or death. If necessary lower boom to reduce height and/or remove mowing head to reduce width to the legal limits. (SBM-8)



DANGER!



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



DANGER!



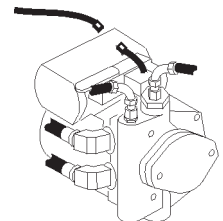
Each Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you need assistance with Counterweight Procedure. (SBM-11)



DANGER!



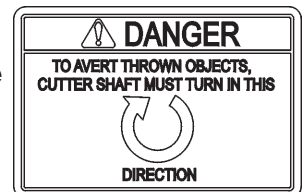
Always disconnect the wire leads from the mower pump solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on without warning and cause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



DANGER!



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



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

PART NO.
LOCATION

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. NO RIDERS, NO CHILDREN OPERATORS</p>	<p>3. USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, & ROPS</p>	<p>4. BLOCK UP SECURELY BEFORE WORKING UNDER.</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. TRANSPORT SAFELY, LOCK UP.</p>	<p>6. USE SMV, LIGHTS, & REFLECTORS.</p>	<p>7. DONOT OPERATE WITH MOWER OR WING RAISED.</p>	<p>8. DO NOT MOUNT OR DISMOUNT WHILE MOVING.</p>
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002369
HYDRAULIC TANK

PELIGRO

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

LEA EL INSTRUCTIVO

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



KEEP AWAY - ROTATING BLADES

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

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

PART NO.
LOCATION

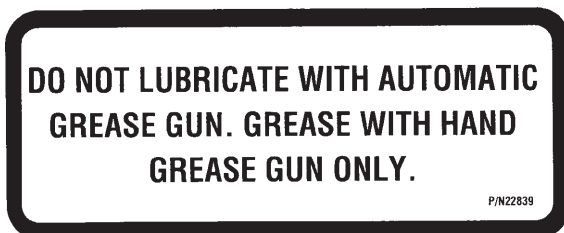
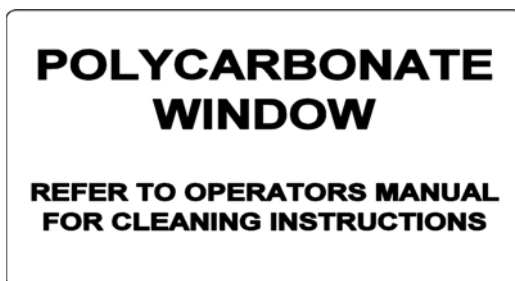
02967668
MOWER DECK

02971123
HYDRAULIC TANK

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

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.
2. TRANSPORT CAREFULLY! SLOW DOWN EVEN MORE ON SLOPES AND WHEN TURNING; NEVER TURN UP A SLOPE SHARPLY OR AT HIGH SPEED; AND USE EXTRA CARE IN ROUGH OR BUMPY AREAS TO PREVENT OVERTURN AND POSSIBLE CRUSHING INJURY OR DEATH. IF YOUR VIEW TO THE REAR IS BLOCKED, IT IS YOUR RESPONSIBILITY TO INSTALL MIRRORS THAT PROVIDE A REAR VIEW TO PREVENT ACCIDENTS FROM BLIND SPOTS.
3. REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS ON FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL, AND POSSIBLE INJURY.
4. NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD TRIMMING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.
5. KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.
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

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

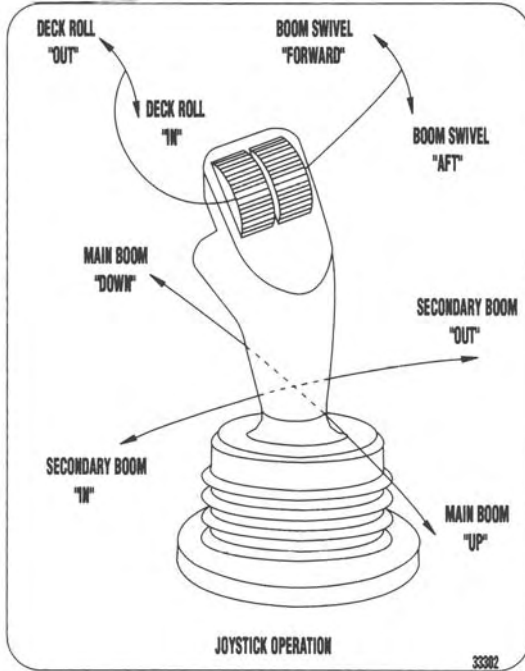
33224
MOWER DECK

Tiger™

33438
MAIN BOOM

SAFETY


PART NO.
LOCATION



33302
INSIDE OF CAB

MOWING SAFETY TIPS

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



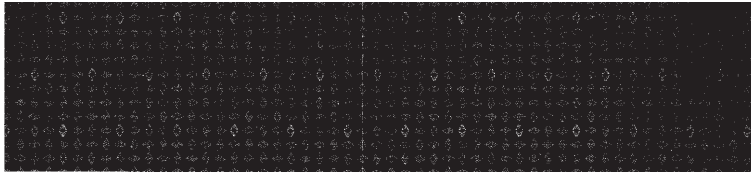
33743

33743
INSIDE OF CAB

SAFETY



PART NO.
LOCATION
RED 42399
REFLECTIVE TAPE
MOWER DECK



AMBER 42400
REFLECTIVE TAPE
MOWER DECK



6T3217
MOWER DECK



6T3219
INSIDE OF CAB

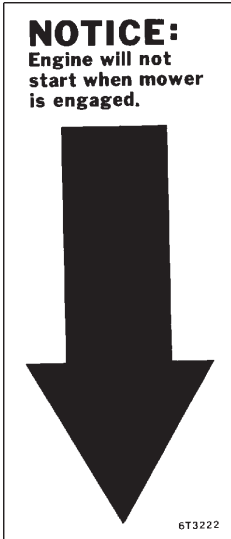
6T3220
FRONT PUMP MOUNT

SAFETY



PART NO.
LOCATION

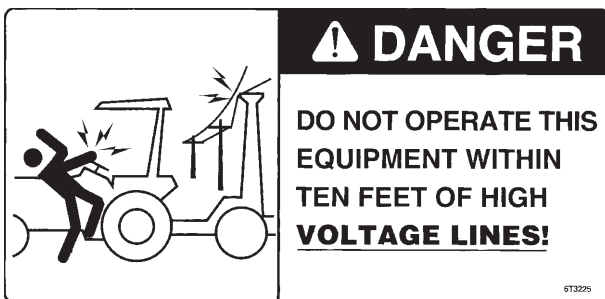
6T3221
INSIDE OF CAB



6T3222
INSIDE OF CAB

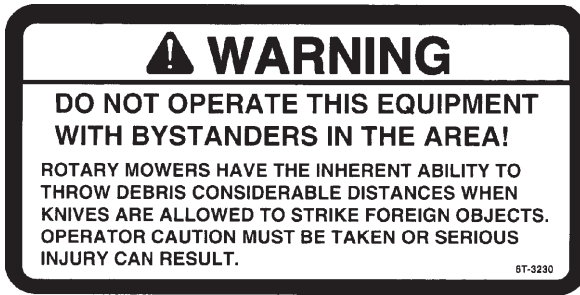


6T3224
MOWER DECK



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

DOWN ↑ MAIN BOOM ↓ UP	OUT ↑ SECONDARY BOOM ↓ IN	OUT ↑ DECK ROLL ↓ IN	FORWARD ↑ SWING ↓ BACKWARD <small>6T-3241</small>
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6T3241

6T3241
INSIDE OF CAB

DOWN ↑ MAIN BOOM ↓ UP	OUT ↑ SECONDARY BOOM ↓ IN	OUT ↑ DECK ROLL ↓ IN	FORWARD ↑ SWING ↓ BACKWARD	CLOSE ↑ SHIELD ↓ OPEN <small>34206</small>
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34206
INSIDE OF CAB

<p style="text-align: center;">⚠ WARNING</p> <p style="font-size: x-small;">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 style="text-align: center;">IMPORTANT</p> <ul style="list-style-type: none"> • WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. • SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS. <p style="text-align: right; font-size: x-small;"><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



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)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220

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
	50023	AVAIL	MANUAL CANISTER COMPLETE
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	ZIPTIE 14" LONG

NOTE:

The manual canister can be bolted, zip tied or adhered to a variety of surfaces. Locate a protected area within the view of the 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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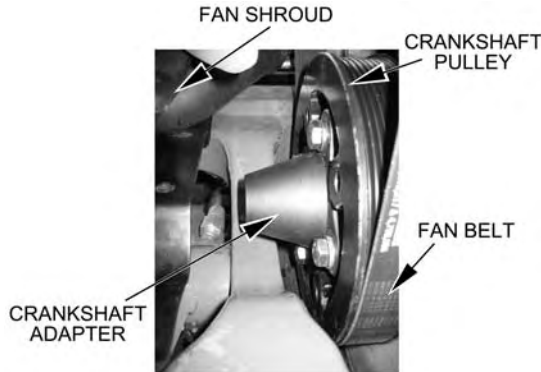
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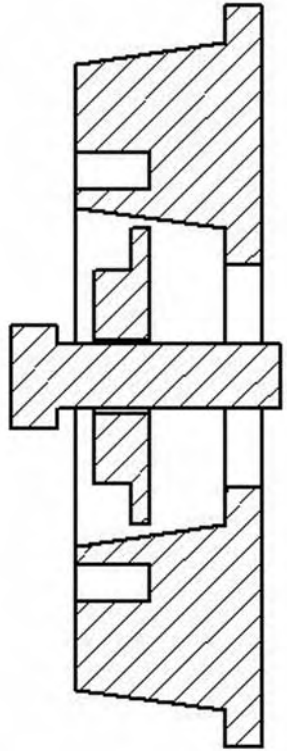
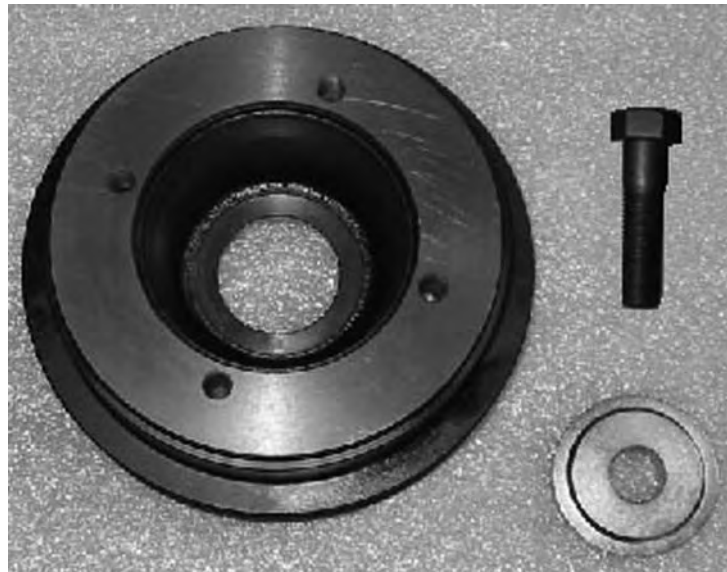


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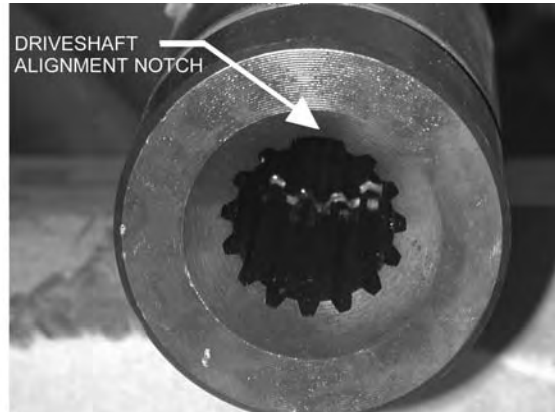
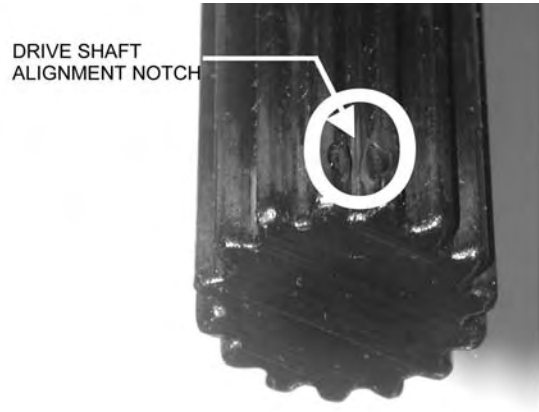


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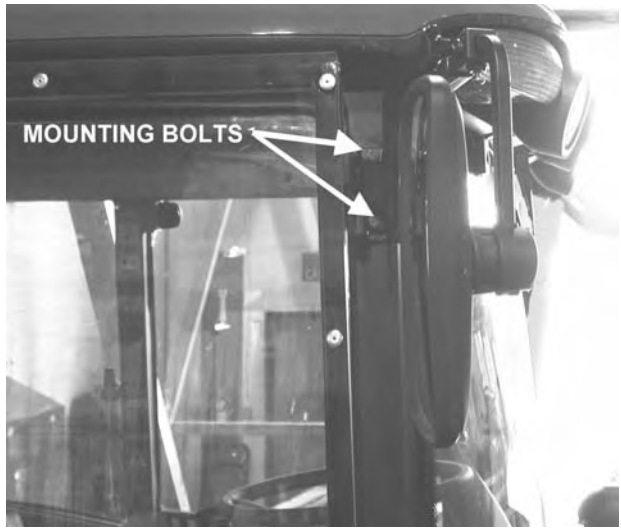
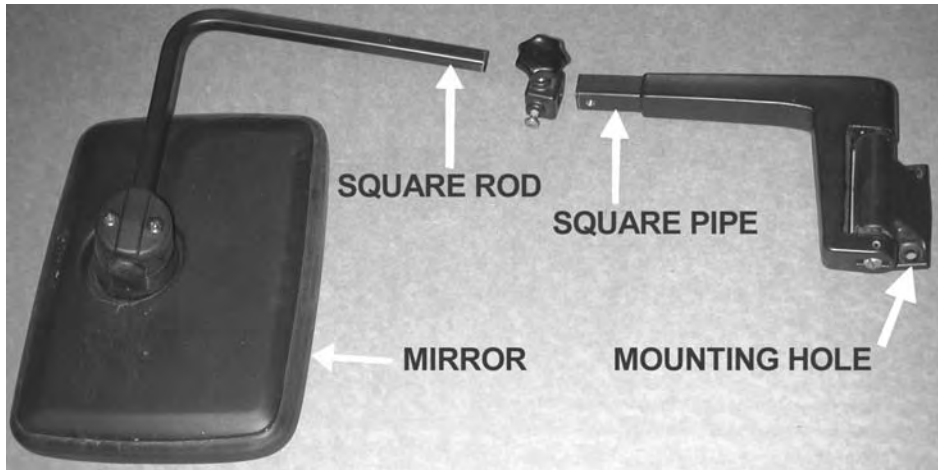
Üæ^Á^æÁ Áæ&|Á] çÁæ& Éçá•ÉÁÁ c`ck`h Y]bgfi W]cbg`]b`h Y`fUWcf`ck bYfjg
 a Ubi U`Zf`UX1 gh]b[`hfYg`UbX`f]a g ÉÁV@^ÁæÁ Á @^iÁ WUVÁ Áæá•çáÁç Á@Á ç^c
 •^ç} ÉÁUVÖKÁV@Á æÁ^~á^Á, æ&ç} Á@Á @^iÁÁ]]]•æÁæ^Á Áæ&|ÁÉÁç[Áæ^
 } [çÁ Áç^Á ç@Á^cdç} •Á @} Áç}] [ç} *Á Áçá ÉÁç|Áæ^Á Á•cajæ} ÉÁÁÁ^•ç
 |æ^Á@ÁæÁ @^iÁÁ{ [ç^ÁÁ`iá*Á•cajæ} Á Á@Á [, ^iÉÁ(ASM-B-0001)



5 GG9 A 6 @M

G-89 'A FFCF' ACI BHB;

Öã•^ { à\^Á@Áã @Áã^Á a[[|Á|ãã^ãÖ oã@Á~ æ^Á| áãã áÁã ^Áã @. } ÁÁã c\^Á à^|, DÁ ÈD ÈÖE•^ { à\^Á@ { Á * @ @È [~ } ó@Áã @Á a[[|Á|ãã^ãã áÁãã, æ^Á } Á ~]] ^ÁÁã @Á | } ^ÁÁ -Áãã | Áãã Á @, } ÁÁã c\^Áã^|, ÈÛ^ -Á| Á@Áã Á^ãã } Èãã Á •&^^ } Èãã Á | Á@Áãã, æ^Áãã È (ASM-JD7220-0001)



A5-B: F5 A9 'BGH5 @@HCB

Yãã Á ç^ | @ãã @ãã áÁ | Áãã Èãã áã Èãã ^Á } ^Áã^Á -@Áã ^Á | Áã @Á | | ^ã Á { æã * Á [~ } ç * Á | ^ ÈÖ. ç | &ã • &^, • Áã áÁã @ | Áãã, æ^Áã Á @, } ÁÁã æã ^Á Áãã Á^ãã } ÁÁã &^ | ^Áã @Áãã^Á -@Áã æã ^Á Áã @Áãã | Áãã * ÈÖÁ UVÁã @ } Áãã Áã ÈÛ^ { [ç^ Á @ Áãã • &^, • Á } ^Áãã Áãã áÁã] | Áãã @Áãã | &ã * Áã } ÈÛ^ ç^ | ó@Á &ã • &^, • Áã áÁã @ } Áãã | ~ ^Á Áãã ^Á [ç^ Á @ Áãã | ~ ^Áãã @Áãã &ã áÁã @Áãã } æ^Á Á^ãã } Á -@Áã æã È (ASM-C-0003)



5 GG9 A 6 @M

GK #H7 <6 CL 'K #B;

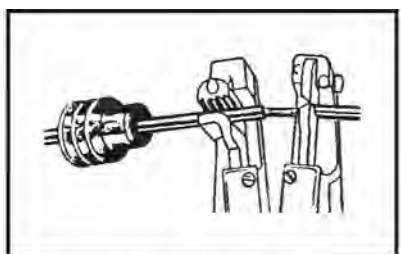
Ú, ^!Á!Á@Á, æ&@[c/æ æ&^••^á@[~ * @Á@Á[!oÁ ææ^áÁ} Á@Áá @Á^æÁ -Á@ÁææÉÁ
 R @ Á^!^Á] * ÁÁ•^áÉ æó { à!ÁÜÖíííÉÁÜÁUVÁ}} ^&@Á] * ÁÁ@ÁæÁ[!oÁ} çÁ
 @Á áá * ÁÁ{]|^cáÉÁV@Á á•Á Á@Á] * ÁÁÁ [!áÁÜÖÉÁÖSÖSÁ} áÁÜCEÖÖÉÁV@Á
 ÜÖÖÁ áÁ áÁ, æ•ÁÁQ cÁ [ÁÁ^á•Á ÁÁÁ} ^áÉÁæ&@}} ^&[!ÁÍÍÁ ÁÁ} áÁ -ÁÜÖÖÁ
 , áÁæ áÁæ^Á áÁæÁ} ÁÁ-ÉÁV@ÁÖSÖSÁ} áÁÜCEÖÖÁ á•ÁÁQ oÁ @} Áæq!Á^Á Á
 c!}^áÁ ÁÁ-ÉÁ}} ^&@ÁÖSÖSÁ áÁ -Á@Á] * ÁÁ@ÁÖSÖSÁ áÁÁ[{ Á@Á, æ&@[cÉÁ
 V@}Á}} ^&@ÁÜCEÖÖÁ áÁ -Á@Á] * ÁÁ@ÁÜÖÖÁ áÁÁ[{ Á@Á, æ&@[cÉ
 V@Á [ÁÜÖÖPÁ á•Á ~ •cÁÁ} } ^&cáÁ Á@Á^ dçÁæc Á áÁÁ} çá * Á@Á^ dçÁ
 •æc Á áÁæ áÁ} } ^&@} ^ÁÜÖÖPÁ áÁÁ} ^Á} áÁæ áÁ@Á @!ÁÜÖÖPÁ áÁÁ Á@Á @!ÉÁ
 Ü^!Á Á@Á, æ&@[cÁ&@{ æáá áá * Áæ!æ Á!Áæáá} çá {!{ æá} É
GH5 B85 F8 'AC89 @G. Á^ dçÁæc Á áÁÁÁ[, } Á áÁÁ} ææ^áÁ} á!Ác^!á * ÁÁ] { } ÉÁÖ cÁ
 æÁ [cÁ Á@Áá @Á áÁÁ ÁÁ] { } Á Áæ&^••ÉY ÖVÓPÁÜWÁ!Á cÁ çá * Á á•É
DF9A # A 'AC89 @G. Á^ dçÁæc Á áÁÁ Á@Á] ^ÁÁ É Í ÖÉÁ áÁÁ} ææ^áÁ} á!Áá @Áç} áÁ
 & } • [^ÉÁ] ~ cÁ á•Á} á!Á@Á} • [] É
 Öc!Á} } ^&cá * Á@Á[, ^!Á Á@Á, æ&@[cÉÁ ~ cÁ@Á @Á áÁÁ} * Á@ÁæÁ^Á!Á á•Á Á
 @Á [] [æÁç^É(ASM-JD-0050)

K 95H<9F!D57?#A9HF#D57?`5 GG9 A 6 @M

V@•^Á•d~ &ç} •Á}]^ ÁÁ [cÁ ^æ@!ÉÁÁ Á} áÁ^dçæ ÁÁ} } ^&[!•É

BCH9.1 gY'h YgdYWQWtc`Zf'h YhdYcZWcbbYWcf'nci 'UfYUggYa V]b["

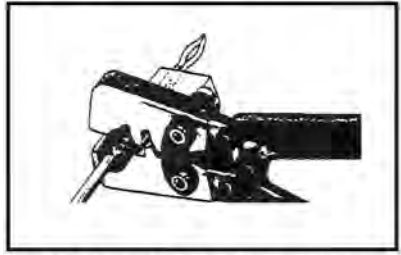
(ASM-C-0009)



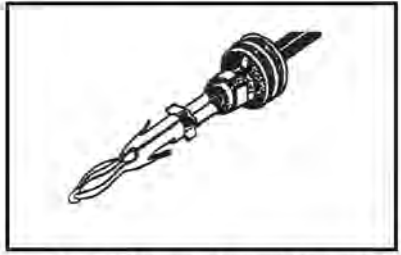
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



3. Put terminal in crimping tool, then



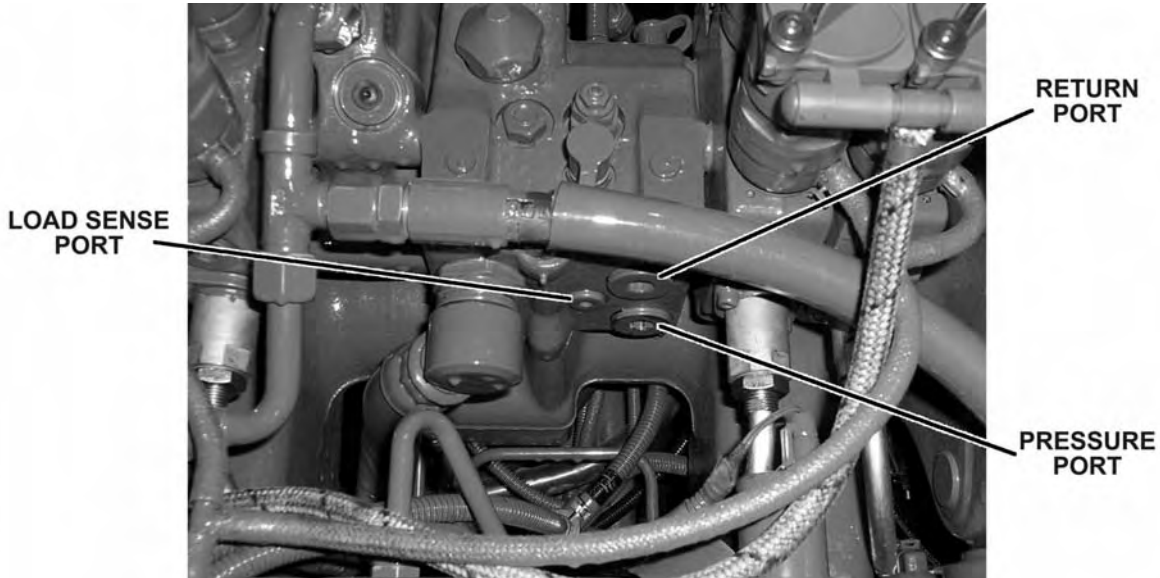
4. Crimp and visually inspect for a good



5 GG9 A 6 @M

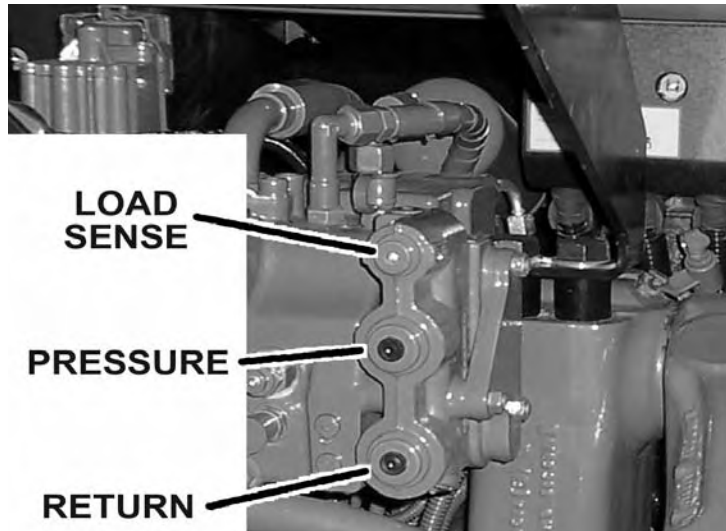
< M8 F5I @7 'DCFHG fDF9A4 AL

V@•^Á[!o Áe^Á[&æ^áÁ} á^!Á@Áæq; iÁæá^ { [c•Áæ} áÁe^Á[&æ^áÁe Á @, } Á Á@Á
ã æ^Áe^Á[, ÉÁÚ^Á!Á Á@ÁÚæo ÁÚ^&ç} Á!Áæáã} æÁ {!{ æá} É
(ASM-JD60-7030-0002)



< M8 F5I @7 'DCFHG fGH5 B85 F8L

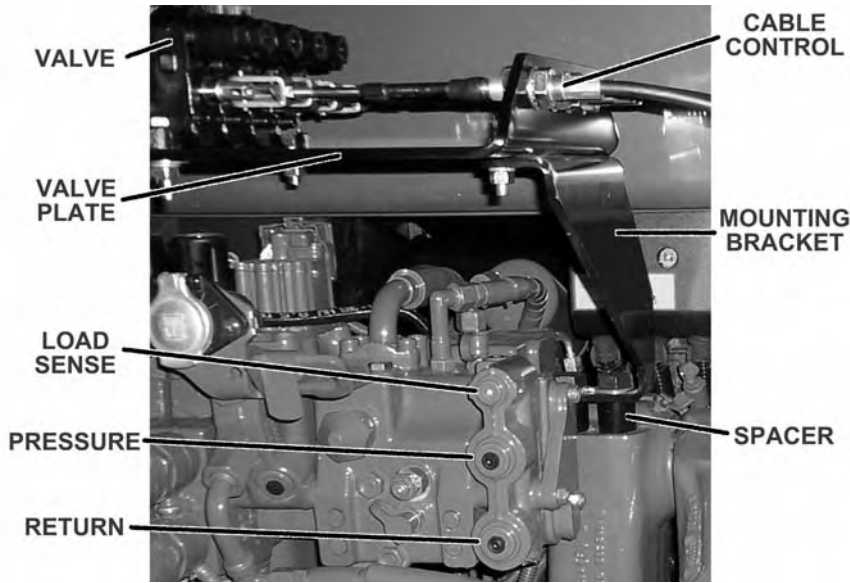
V@•^Á[!o Áe^Á[&æ^áÁe Á@Áæá^ Á@Áæq; iÁæ} á^!Á@Áæçæ^É} @!^Á@Áæç^Á
{ [~ } ç* Á!æá^ Áææ&@•Á Á@Áæq; iÁV@Á[æá^} •^Á[!o Á} Á] ÉÁ@} Á@Á!^•~!^Á
æ^áÁæ æ^!Á@Áç!} Á[!o Á @, } Á Á@Á æ^Áe^Á[, ÉÁÚ^Á!Á Á@ÁÚæo ÁÚ^&ç} Á!Á
æáãã} æÁ {!{ æá} ÉÁ (ASM-JD60-7030-0004)



5 GG9 A 6 @M

J5 @9`ACI BH-B;

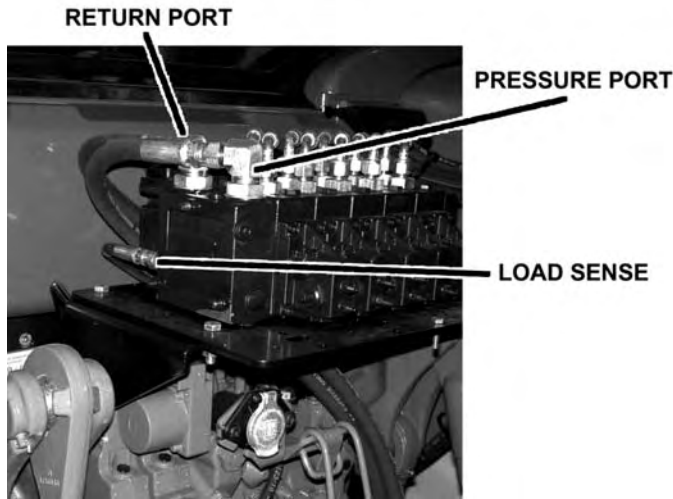
Š [&æ^Á@Á cā cā * ÁQ |·Á } Á [Á -Á@Á a& [Á^ [[c^Áçç^Áæ@Á^æÁ -Á@ÁÁÁ a& [ÉÁU] æÉ
 ^!·Áæ^Á^á^áÁ } á^!Á@Áçç^Á [~ } cā * Áíæá^Á Áæ^Á@Áçç^Á [~ } cā * Á·c { Á Á@Á
 !^~ á^á@á @ÉÁU^& !^Á@Áíæá^Á Á@Áíæá [Á á@Áæ, æ^Á@, } Á@ÁÚæ@ÁU^&cā } Á -Á@Á
 { æ ~ æÉÁÚæ@Á@Áçç^Á [~ } cā * ÁíæÁ Á@Áçç^Á [~ } cā * Áíæá^Á } Á@Á^æÁ -Á@Áíæá [Á
 æ Á@, } Á^ [, ÉÁÚæ } Á@ÁQ |·Á !Á@Áæá |·Á } Á@Á· & Á [d [|Áçç^Á·Áæ á& } c^!Á@ÁÖæ É
 †·Áçç^Á } Á@Áçç^Á |æ ÉÁV@ } Áæ } Á@ÁQ |·Á } Á@Áçç^Á á@Á@Á |æ ÁQ |·Á Áæ á^Á& !^Á
 c@Ááçç^Á } Á [Á -Á@Á [~ } cā * Á |æ ÉÁU | c^Á@Á@áæ |ÁÁ^·Á [{ Á@Ááçç^Á Á@Á
 @ááæ |Á& |á á^!·Áæ Á [c^áÁ } Á@Ááçç^Á æ^Á -Á@ÁÚæ@ÁU^&cā } ÉÁÚ·cá|Á@Á [d [|Áæá|^·Á
 ç Á@Áçç^Á Áæ á@Á [~ } cā * Á |æ Á } Á@Á· & Áçç^Á·ÉÁU } Á@ÁÖæ †·Áçç^Á·ÉÁÚæ@Á
 ^!^&d ÁæÁ [d [|Áæá|^·É (ASM-JD7X30-0001)



9 @7 HF CB=7 ' @: H'J5 @9 'DCF HG

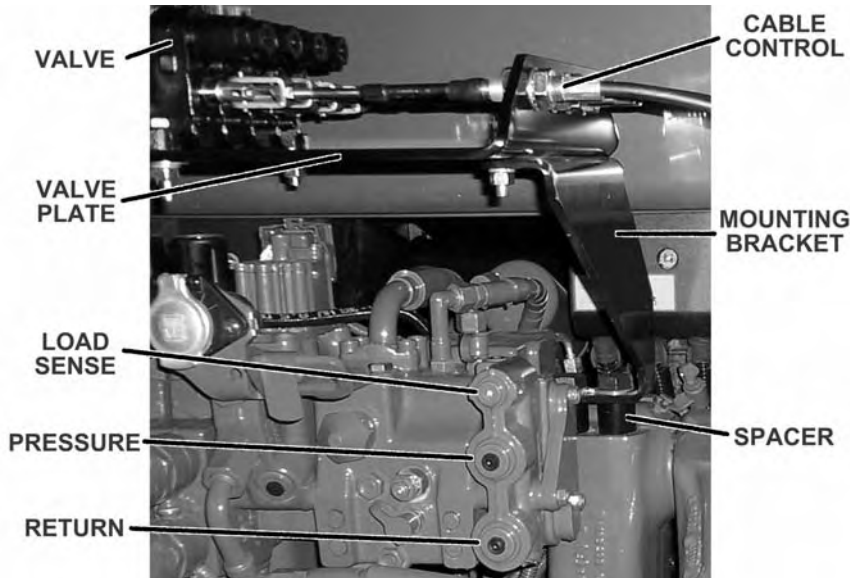
(ASM-C-0089)Ä

DANFOSS VALVE



J5 @9 'ACI BHB;

Š[&æ Á@Á cā cā *Áq |·Á }Á[]Á Á@Áædq |Á{ [c'Áçç^ÁæÁ@ÁæÁ Á@ÁÁædq |ÉÁU] æÉ
 ^·Áæ^Á^á^áÁ }á!Á@Áçç^Á [~ } cā *Á!æÁ^óÁ ÁæÁ^Á@Áçç^Á [~ } cā *Á^·c{ Á[Á@Á
 !^~ á^á@á @ÉÁU^& !^Á@Á!æÁ^óÁ Á@Áædq |Á á@Áæ, æ^Á@, }Á@ÁÚæóÁU^&çā }Á Á@Á
 { æ~ æÉÁÚæóÁ@Áçç^Á [~ } cā *Á!æÁ[Á@Áçç^Á [~ } cā *Á!æÁ^óÁ }Á@ÁæÁ Á@Áædq |Á
 æÁ@, }Á!|, ÉÁU}Á@Áq |·Á[Á@ÁæÁ^·Á }Á@Á·&Á[] d[|Áçç^·Áæ áÁ^ }c!Á@ÁÖæ É
 †··Áçç^Á }Á@Áçç^Á |æ ÉÁU@ }Áæ }Á@Áq |·Á }Á@Áçç^Á á@Á@Á |æ Áq |·Á }Áæ áÁ^& !^Á
 c@Ááçç^Á }Á[]Á Á@Á [~ } cā *Á!æ ÉÁU| ~ c'Á@Á@á!æ |æÁ^·Á[{ Á@Ááçç^Á[Á@Á
 @á!æ |æ& |á á!·Áæ Á[c'áÁ }Á@Ááçç^Á æ^Á Á@ÁÚæóÁU^&çā }ÉÁU·ç!Á@Á[] d[|ÁæÁ^·Á
 ç Á@Áçç^Á }Áæ á@Á [~ } cā *Á!æ^Á }Á@Á·&Á çç^·ÉÁU }Á@ÁÖæ †··Áçç^·ÉææóÁ@Á
 ^!^&çæÁ[] d[|ÁæÁ^·É (ASM-JD7X30-0001)



>CMGH7 ? 7 CBHF C @A CI BH B;

V@Áþ^•c&Á& } d[|Á, q|Á^~ a^Á@Á@Áiã @Áæ{ !^•ó^Á [á aá aÁæ aÁæ Áæ aáã } æ àiæ^Áæ@Áæ@Áæ q|Á& } { [áæ^Á@Áþ^•c& ÁÁÁ [á * Á@Á@Áæ{ !^•ó^Á ~ •ó^Á !^ [ç^áÁ^ Á |ãã * Á -Á@Á |æ c&Á& ç^ÁÁæ aÁ^ [çã * Á@Áæç •&^, Á: [{ Á@Á |, ^!Áã @ •ã^Á -Á@Á^æÁÁ@Á@Áæç •&^, ÁÁ^ [ç^áÁ@Áæ{ !^•ó^Á @ |áÁ^Á [•^Á [{ Á@Á^æ æ aÁæ|Á^Á Á^Á^ [ç^áÁæ@Á [á c&Á } &Á@Áæ{ !^•ó^Á^ [ç^áÁ@Á } Á |æ^Á@Áþ^•c& @ |á^Á } á^Á@Áæ{ !^•c& [Á@Á@Á a^ } c& } Á } Á@Á ~ •ã^Á -Á@Áæ{ !^•ó^Á^ á^Á] , á@Á@Á |Á^Á Á@Áæ{ !^•ó^Áæ^Á^ |Á@Áæç •&^, Á^ Á æ•Á@ [~ * @ÁÁ } &Á@Á& !^&c] |æ^ { ^ } ÁÁ Áæ@ ç^áÁ@Á } Á æ^Á } Á@Áæ{ !^•ó^Á @!^Á@Á@Á |Á æ••Á@ [~ * @Á@ æ{ !^•ó^Áæ^ÁÁ@Á [á ÁÁÁ@Á |Á^ ~ •ó^Á^ q|Á@ [~ * @Á@Áæ{ !^•ó^Á [Á@Á@ àiæ^Áæ^ÁÁ^& !^ÁÁ Á@Áæ{ !^•c&ÁÁ@Á@Á |Á^Á |Á^Á |á^Á@Á } Á } Á@Á •ã^Á -Á@ æ{ !^•ó^ÁÁ@Á |Á^ ~ •ó^Á&^ Á^Áæ^Á^Áæ^Á^Á } Á^Á@Á ^c&Á |æ^Á@Áæ{ !^•c • [Á@ÁÁ] æ^ÁÁæ aÁ@ ç^Á ~ óæç Á^Áæ ç^Á^ÁÁ Á@Áæç •&^, Á@Á^& !^•Á@Áæ{ !^•c àiæ^Áæ^ÁÁ^æ^Á@Áæ{ !^•ó^Áæ^Á^ } Á@Áæ{ !^•ó^Á á@Á@Áæá, æ^Áæ Á @, } Á Á@ÁÁæó Á^&ç } ÁÁ } &Á@Ááæ^Á^Á •c& |á^Á } Á@Áæ{ !^•ó^Á } Á^æ@Á@Áæ{ !^•ó^Á Á } ç @Á^æÁ • á * Á@Á çã çã * Á@Á, æ^Á |Áçã • |Á^ [ç^áÁÁ@ } Á •c&Á@Áþ^•c& Á Á@ àiæ^Áó^ á@Á^Á æç^Á&^, •Áé Á @, } Á Á@ÁÁæó Á^&ç } ÁÁ@Á^Á •c&Á } Á [ç^Á@ |áçç^Á á^•Á [{ Á@Á, æ&@ [ç@ [~ * @Á@Áæááá á^Á ~ ó@Ááæ Á á á, ÁÁ [ç^Á^ á@ & } á ~ áÁæ aÁ^& !^Á á@Á^Á |Á& } •Áé Á^&•æ^Á



5 GG9 A 6 @M

≡JH>CMGH7 ? `A CI BHБ;

У А [~ } о @ А а ^ ! А ^ • о А А [~ А q | А а • о @ А А { [ç А @ А { ! ^ • о А а @ А V А } d | • А А а & • • А @ А | а ^ ! А • ^ { à | А } * А @ А а ^ А - А @ А а È



О е ! А ^ { [ç а * А @ А { ! ^ • о А А { [ç А А [А & ^ , • А { { А @ А V А | а ^ ! А | а ^ ! А • ^ { à | А } ~ А { а А @ А А а б • о @ А | а ^ ! А • ^ { à | А А @ , } А ^ | , А А а @ А а & • • А А @ А & ^ , • È

LOCATION OF REMOVED SCREWS



SLIDER PLATE

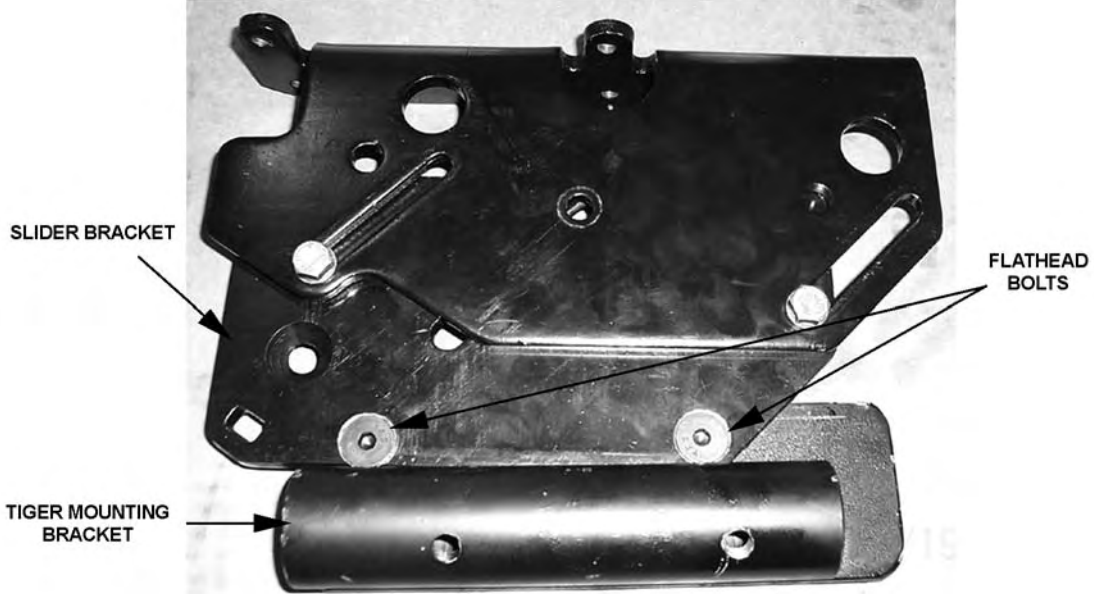
T а \ А @ А ^ а А q | ^ А & @ • А { { А @ А а А а а F B A & @ { { А @ А | ç { А - А @ А | а ^ ! А | а ^ ! А • А • @ , } А ^ | , È А V ^ А @ А а ^ ! А [~ } ç * А | а ^ ! А • ^ { } | а ^ ! А а | а ^ ! А @ А ^ & } а А q | ^ È А | А @ А Д - А а ^ ^ ç ! А q | ^ È А V ^ А а | а ^ ! А ç | А | А | А а а @ ^) о А А | , А @ А & ^ , • А А [~ } о А • @ , а @ А | а ^ ! А | а ^ È А [ç А @ А | а } а } È А (ASM-JD IVTJYSTK SEAT MNT-002) А



5 GG9 A 6 @M

≡H>CMGH7 ? 'ACI BHБ; 'f7 cbh̄bi YXL

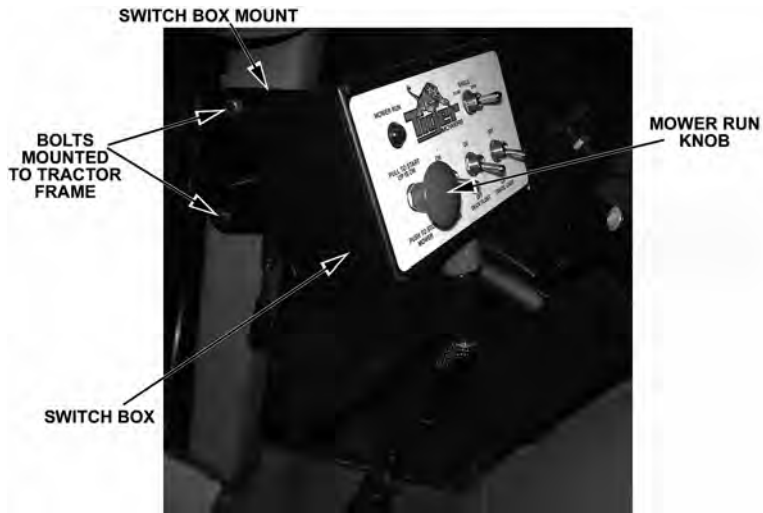
Q•ca/A@A~•@*A/A@Ava^iA[~}q*AOiaa^oA@, }A/A@AuoA^&ca}EAO|oA@A
va^iA[~}q*AOiaa^oA}qA@A|aa^iA@E•^a|A@A@, }A^|, E



Ü^q•ca/A@A|aa^iA@E•^a|A@A@A^aaEÜ^q•ca/A@A@E{!^•oA}qA@A^aaEÜ^q•ca/A@A
Q!{^aaÜ[aaqA@Ava^iA[~}q*AOiaa^oA}aa@}Ae•^a|A@A@A^•caA@A@, }A/A@A
UaoA^&ca}E(ASM-JD IVTJYSTK SEAT MNT-0003)

>CMGH7 ? 'GK ≠7 < 6 CL 'ACI BHБ;

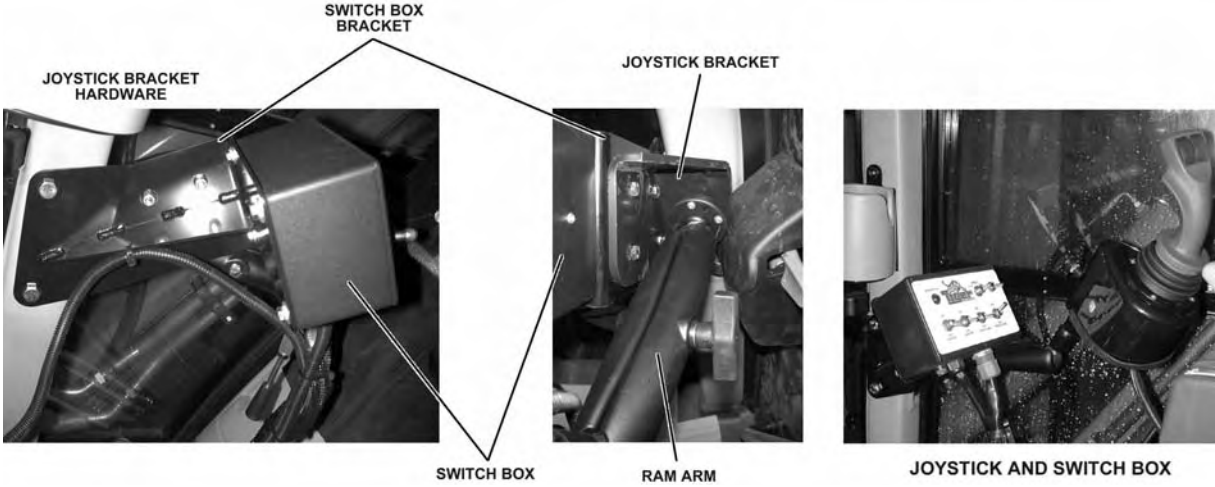
Š|&aeA@A@q|•A/A@A@A@A[}oA| }^iA^A@A@A@A^EÜV@•^A|A@A@A[~}q*Á
@|•A^iA@A@A[~}q*A|oA^A@A, aa@|caiaa^oA^AA^A@c|^A^|, EÜA[~}oA@Aiaa^oA
~•q*A@A@aa, aa^A~]]|aaEaaA[caA/A@AuoA^&ca}E(ASM-JD-0081)



5 GG9 A 6 @M

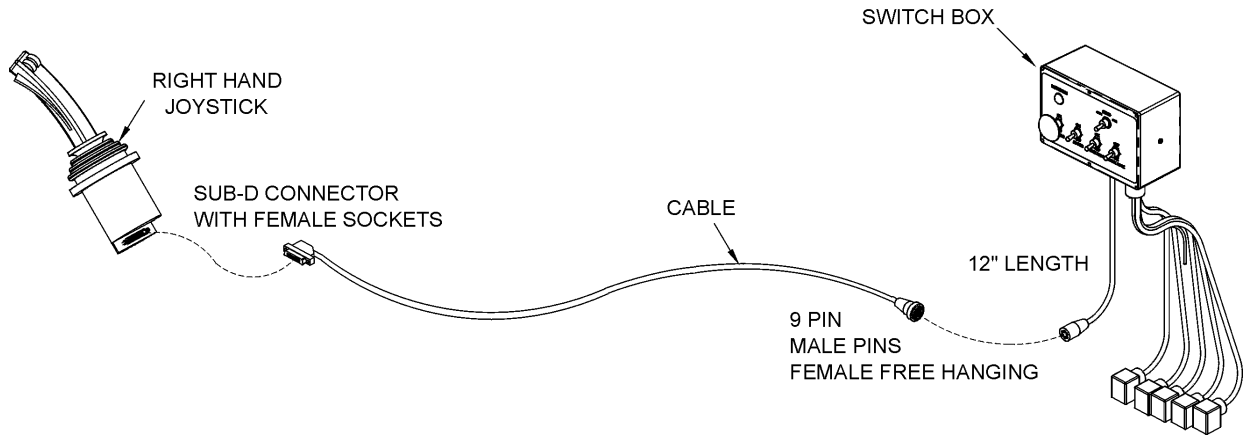
≡JH>CMGH7 ? `A CI BH-B; `fGK #H7 <6 CLŁ

Q•ca|Á@Áp^•ca Á [~ } cā *Á|æa^cÁ Á@Áã^Á-Á@Á, ã&@| cÁ|æa^cÁV^Á@Á æ|ãp Á
 ā Á@Á æ•Á^&cā } āÁ@Á æc^!^•Á^|, Á Á•^ { à^Á@Áp^•ca Á•^ { à| Á|Á@ÁVÉ
 ÁEe!Á@Áp^•ca Á@e Á^} Á [~ } cā Áā cāāb•c^ } cā Á^Á àcā āÁ Á•Á-Á@Á } [àÁ } Á
 @Á [~ } cā *Á|æa^cÁ BcH^H Y a ci bh| `Wta dcbYblg`a i ghVY`cWUX`gc`bchlc`jbnfZfYf`
 k]H`cH Yf`Wbffc`g"ÁU[~ cÁ@Áp^•ca Áæa^Á| { Á@Á } d| Á| cÁ Á@Áp^•ca ÉÁÁ`!^Á Á
 |æ^Á } [* @Á|æa^Á@Áæa^Á Á|, Á| Á [ç{ ^ } cÁ Á@Áp^•ca ÉÁÁ^&!^Á@Áæa^Á Á@Á
 { [~ } cā *Á|æa^cÁ ā@Áæa^Á•ÉÁEe!Á•ca|æa } ÉÁ[~ cÁ@Á ā•Á| { Á@Á, ã&@| cÁ Á@ÁāÁ
 çç^Á@ [~ * @Á@Áæa^Á āÁ`Á@Áæa^Á āā, ÉÁ[ç!Á ā@Á } ā āā āÁ^&!^Á ā@Á•Á āÁ
 &æ]•Á Á^&••æ ÉÁASM-JD IVT SWITCHBX-0001)



6 CCA >CMGH7 ? 7 CBHF C @75 @6 F5HCB

GI 6!8



V@A0^&d[} &A[} d[| &A^A^A[, A~q]^aA a@A@ |E^{|'q} A&c& a[|A } A^ aA O[[{ E
 U& } a&^ A O[[{ E A O^& AU[|| E a a AU, q^|A~ } &A } •E AV @^ A&c~ a[| •A @^ A^%&A^ A~ | c
 { [] a[| q * +E AV @ A O^& AU @ | a A^ &A } A a | •A [| A @^ A^%&A^ A~ | O[[] a[| q * +E AV @ A
 ~ } &A } ^ a A a } a A | | c a^ • A a a E ~ d a A [| c e^ A a } a E AV @ A^ d a A a } a A [| c e^ A A A O^ A | A E A
 [- A a d | A ~]] | A [| c e^ A E O G A A a } a A [| c e^ A a | A @ a @ A a c^ A^ [| | A A^ | A O E U | | c E a A I A
 • a } a A [| c e^ A a | A @ a @ A^ [| | A A^ | A O E U | | c E A O @ A T a A E U^ & } a a^ E a a AU, q^ | A c a c^
 •^ &A } •E AV | A @ A O^& AU [| | A^ } &A } A a | A A a } a A [| c e^ A a | A @ a @ A a c^ A^ [| | A A^ | A O E U | | c
 a a a A | A A a } a A [| c e^ A a | A @ a @ A^ [| | A A^ | A O E U | | c E A O a A a } a A a } a A [| c e^ A a | A @ a @ A^ [| | A A^ | A O E U | | c
 { [] a[| q * A^ & q^ • A a a } a A [| A @ A^ • A A O a A^ • A O a A I A A | A^ A e^ A O a A I A A A ~]] |
 c [| c e^ A A O A a c^ a[| A | A a e^ | O[~ c A a a A @ O A [,] E A O E | E A a @ | A a A a A a c | } a A a | ^ A A O
 a c^ a[| A | A a @ A^ [| | A [| • a } A a A^ A e^ A O a A O a A^ ^ a a a A^ A O A a } a A [| c e^ A A [{ A @
 t^ • A E A O A a c^ a[| A | A a e^ | O[~ c A a a A @ O A [,] E A O E A^ a c^ A^ A e^ | c A & [} a a a } A a e^ • A O @
 a c^ a[| A q A | q^ A O A^ [| | A q A^ d a E @ O a [,] E a a A a c^ a e^ A a % a + S O O A } A O A [| A A @
 a c^ a[| E AV @ A a c^ A e^ | O a a A A a e^ & | ^ a A^ A a] | ^ & & q * A O A T a e c | A U, a & A U O A a a A O }
 % W P + E @ E A^ • A O A a e^ | O[[] a[| q * E a a A a e^ • A O A S O O A } A [| A A @ A a c^ a[| A A^ A O | A^ } +
 a e a E



V@A~ • A A & [} d[| A A^ ~ q] ^ a A a @ A a } a A a a q } A [c] q { ^ c | • E A

V@ • A A | | c a^ A c @ A a e a a a c A q A q a a q a e | A a b • A c @ A q A A [, A q A^ a c @ A [[{ A ~ } &A } E A O A a
 a] | | c e^ A O a @ A [[{ A^ } &A } • A [A | O a e^ | A [A e E A O c & • q^ A a [[{ A^ } ^ a A a } A^ a^ & A @
 • a a q a A A O A^ } a a } a A & | A e^ A^] ^ a e | A [} d [| E

P[c A A V^ A A a U @ | q } A & | A a | q^ | A a a A^ ~ | A q A a b • A c @ A & | ^ • A a e ~ | | A A O U A U V A^ | }
 @ A [c] q { ^ c | • A^ [] a A @ a A d]] q * A [q c] [c] q { ^ c | • A e^ A^ | A^ | a e^ A A V | } q * A @ A O E
 [| A O A^ | | O[[c] q { ^ c | • A & [& , a^ A & | a e^ • A O A q A [, A q A & | a e^ A O A A [[{ A^ } &A } A^ a E
 a a A^ | } q * A @ { A & | ~ } c | & [& , a^ A a & | a e^ • A O A q A [, A q A a & | a e^ A O A A [[{ A^ } &A } A^ a E
 U^ A a @ A | a e^ @ A^ | A @ A^ c O A , A a e^ • A | A O] | A A a b • q * E



5 GG9 A 6 @M

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

Ü~ } Áædq | ÁæÁ [| { æÁ] ^ | æá * ÁÜÚT Áæ Áæb • Á@ Á ^ cã * Áæ Áæ || | , • È

GYhH Y'XYUX'VubX'Wta dYbgUjcb'dchYbjca YHf'Zfgh'

Ü^ Á@ Á ^ æá Áæ } á& [] ^ } • æá } Á [c] cã { ^ c | Áæ Á ^ Á È Á Á @æ , æ Á ^ c ^ } Á ~ || & [& , æ ^ Áæ } á ~ || & [~ } c | È [& , æ ^ È

GYHjB['G][bU'5 XUdHjcb'DchYbjca YHfg.

Öä & } } ^ & Á@ Á ^ ~ • & @ & [] ^ & d | • Á [{ Á@ Áæc æ | • Á - Á@ Áæç ^ ÈÁV ^ ÁæX [| ÈU @ Á ^ c | Áæ { ^ æ ~ | ^ Á æ } æÁ [| cæ ^ Áæ } á Áæb • Á@ Á æ } æÁææææææ } Á [c] cã { ^ c | Áæ Á ^ Á ^ á á ÈÁUá ÁÁ Áæ dædq | Á ~] | Á [| cæ ^ ÈÁUá ÁÁF/Á Á æ } æÁ [| cæ ^ Á [{ Á@ Á ^ ~ • cã Èæ } á Á æ ÁÁÁ Á | ~ } á ÈÁUá • È { ^ æ ~ | ^ Á ~] | Á [| cæ ^ Á ^ c ^ } Á æ • Á Áæ } á Á ÈÁV @ } Á ^ æ ~ | ^ Á æ } æÁ [| cæ ^ Á ^ c ^ } Á æ • Á Áæ } á HÁ @ Á æ á ^ cã * Á@ Á ^ ~ • cã Á } & cã } Á ~ | Á Á Á c @ Á @ Áæ } á Á Á Á | Áæ á & cã } ÈÁUá æ Á @ Á æ } æ c [| cæ ^ Á ^ Á @ Á ~] | Á [| cæ ^ Á ^ Á ^ c ^ } æÁ [| cæ ^ Áæ ÁÁ Á - Á ~] | Á [| cæ ^ ÈÁV @ Á ^ | & } cæ ^ • @ ~ | á Á [cã Á ^ • Á @æ Á Á Á | Á ^ æ | Á @æ Á Á Á Á | Á @ Á æ Á Á [{ ÈÁUá } á æ ^ Á [{ ÈÁUá , æ ^ ~ } & cã } ÈÁV @ Á ^ | & } cæ ^ Á @ ~ | á Á [cã Á ^ • Á @æ Á Á Á | Á ^ æ | Á @æ Á Á Á Á | Á @ Á ^ & ÁÜ [|| ~ } & cã } ÈÁV [c Á @ • Á Áæ æ Á ^ cã * Á Á | Á @ Á ^ & ÁÜ [|| Á ~ } & cã } Á @ ~ | á Á | ^ c ^ } Á @ Á ^ [| | Á [{ • @æ * Áæ d Á [æ ÈÁV After making this first adjustment to deck roll if the spool still goes into float, adjust the "B" port screw additionally counterclockwise.

Ü^ & } } ^ & Á ^ ~ • & @ & [] ^ & d | • Á } Áæ } d [| Áæá | Áæ Áæc æ | • Á } ÁÜ^ & d [] æ Áæç ^ ÈÁU ~ } Áædq | ~ } cã Á @ á | æ | Á ^ • c { Á Áæ Á | ^ æá * Á c {] ^ æ | ^ ÈÁV [, Á ^ æ ^ Á @ Áæb • d ^ } c Á - Á @ Á æ } æ æáæææææ } Á [c] cã { ^ c | Áæ | Á [c @ Áæ Áæ } á Á Á Á | | Á | Áæ Á | | | | cã } æÁ } & cã } • Á Áæ @ Á ^ Á @ - | || , á * Á } & cã } Áæ Á • ÈÁV [c Áæ |] á * Á [c] cã { ^ c | Áæ [& , æ ^ Áæ & ^ æ ^ Á @ Á [, Á | Á @ Á } & cã } •] ^ á ÈÁU } á Á | } á * Á @ { Áæ [~ } c | È [& , æ ^ Áæ & ^ æ ^ Á @ Á [, Á | Á @ Á } & cã } Á ^ á ÈÁV [c ÈÁV á | á * Á @ Á | | & á ^ Á @ Á á Á [c] cã { ^ c | Áæ Á ^ c d Á ~ || Áæ [~ } c | & [& , æ ^ Áæ ~ Á @ Á } & cã } Áæ • cã Á [Áæ ÈÁV • Á @ Á ^ & @æ æ Á d] • Áæ Á @ Á æ ~ æ Áæc æ | Á } á Á - Á @ Áæç Á ^ & cã } Á Á | c @ | | á æ Á [, ÈÁV |] Áá æ Á & ^ , Áá Á | Áæ [& , æ ^ Áá Áá æ Á [, ÈÁV @ Á] Á Áá æ Á & ^ , Áá æ Á [, Á Á Á @ È] | | c Áæ } á Á @ Á , Á Áá æ Á & ^ , Áá æ Á [, Á Á Á @ È [| c Áæ [, ^ c Á ÁÜU Á U V Áæb • Á @ Áá æ Á & ^ , Á } % È [| c Á Áæ & Á [|| Á ~ } & cã } ÈÁV áæ * Á @ È [| c Á á | Á | ^ c ^ } cã } æ Á } & cã } È



5 GG9 A 6 @M

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

A5B6CCA. %GEÁ[:dÉÓ [{ ÁM } ËÉÁ^& } 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.)

%GEÁ[:dÉÓ [{ ÁÖ [, } K Ì È Á^& } 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 %GEÁ[:dÉÓ [{ ÁÚ~K 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.)

Á

%GEÁ[:dÉÓ [{ ÁQK 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@@ %GEÁ[:dÉÓ^& ÁÚ~K Ì ÈÁ^& } 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.)

%GEÁ[:dÉÓ^& ÁQK Ì ÈÁ^& } á• ÁÚ~K Ì ÈÁ^& } á• ÁÚ~K Ì ÈÁ^& } 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@ %GEÁ[:dÉÓ [{ ÁÉÁ È Á^& } á• ÁÉ :ÁÚÚÁÈ ÈÍ Á^& } á• ÁÉ :ÁÚÚÁÈ

(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.)

%GEÁ[:dÉÓ [{ ÁQ! , æáÁ È Á^& } á• ÁÉ :ÁÚÚÁÈ ÈÍ Á^& } á• ÁÉ :ÁÚÚÁÈ

Öcc) áÁ [{ •Á [] ^c| È [æÁ@æÁ Á^Á^ç^Á á@Á [| ~ } áÈ [, ^Á æ Á [{ Á } çÁ^& Á b• Á [ç^Á [| ~ } áÈ æ áÁ , æ^Á [{ ÁæÁ } çÁ^æÁ^Á@ } Á æÁ@Á [{ Á , æ^Á! , æá+ ~ } &ç] Á æÁ^c| æ^Á@Á Á^Á ~ á^ÁÁ | Á@Á [{ Á Á , æ^Á ||Á! , æáÈ

(ASM-C-0082)



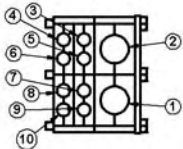
5 GG9 A 6 @M

D5 BH<9 F' <CG9' F CI HB;

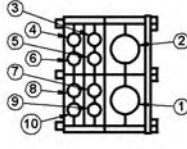
K5FB=B; ' BCH9.ÁV@Á•áá^}Á!^æ^Á Á@áiæ|æ Á|!••!^Á&|!áÁ&æ•^Á@Á~ áá^} { [ç^ ^} of Á^!^Á@æ ÁæoÉÁO[]^ÁÁ@Á æÁ Á@•^ÁæoÁ|~|áÁ^Áç^!^Á Á@!of|Áq|^áÉ ÓUÁUVÁSSUY Á@•^Á@áiæ|æÁQ••^Á ÁÓÜOOSÁ!ÁÓWÜUVÁÁ!á!ÁÁ!^ç^} of ááiæ|æÁæ!^ Tæ^Á~!^Á@ÁQ••^ÁÁ[Á] of á&@!Á d^&@e Á[[Á [ç^ÉÁ^æ~!^ÁY OÖ&@&ÁY OÖ @}Á|[&^áÁ áO&æ ç}É

LOCATION OF HOSES IN CLAMPS NEEDS TO BE MAINTAINED TO ENSURE PROPER LENGTHS AND REACH

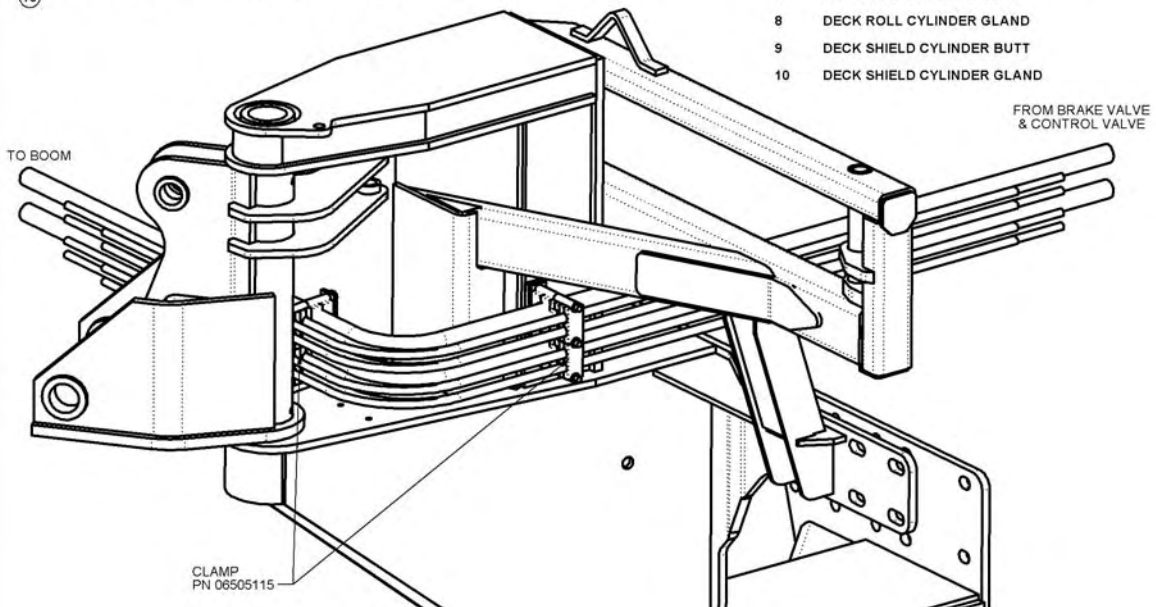
CONFIGURATION OF CLAMP ON SWIVEL



CONFIGURATION OF CLAMP ON MAINFRAME



- 1 MOWER PRESSURE
- 2 MOWER RETURN
- 3 MAIN BOOM CYLINDER BUTT
- 4 MAIN BOOM CYLINDER GLAND
- 5 SECONDARY BOOM CYLINDER BUTT
- 6 SECONDARY BOOM CYLINDER GLAND
- 7 DECK ROLL CYLINDER BUTT
- 8 DECK ROLL CYLINDER GLAND
- 9 DECK SHIELD CYLINDER BUTT
- 10 DECK SHIELD CYLINDER GLAND



Ü[~çÁ@ÁQ••^Á@~* @Á@Á] æ^Áàç ^^} Á@Á, æ^Áæ áÁ@Áá[[{ Á [] ç} * Ááæ!^É Ô[] ^&@Á@ÁQ••^Á Á@ Á!^+!{ ^áÁç à•Áæ áÁ [ç^Á@Áá[[{ Áæ{ Á ÁÁÁ, Á ^ÁÁ^!{ Á~|| +!, æáÉÁO••{ à^Á@Á, æ^ÁÁ&|æ] Áæ áÁ|æ^Á@Á^c!} ÁQ••^Á!Á@Á [ç!Á] Áç] Áæ áÁ@ [!^••!^Á&|æ} Á@Áá[[{ ÉÁO••{ à^Á@Á +Q••^Á Á@Á, æ^ÁÁ&|æ] ÉÁ^çÉæ æ^Á~!^Á@!^ áÁ[] * @ÁæÁ!ÁÁÁQ••^Á Á ç[óÁÁ@Á ç of @!^Á@Á æÁ Á[[{ Áæ{ Á^} á•Á@Á, æ^ÁÁæ •Q, } Á@Á^çÁ æ^ÉÁæ áÁ@ } Á@ÁQ••^Á Á@Á&|æ] É

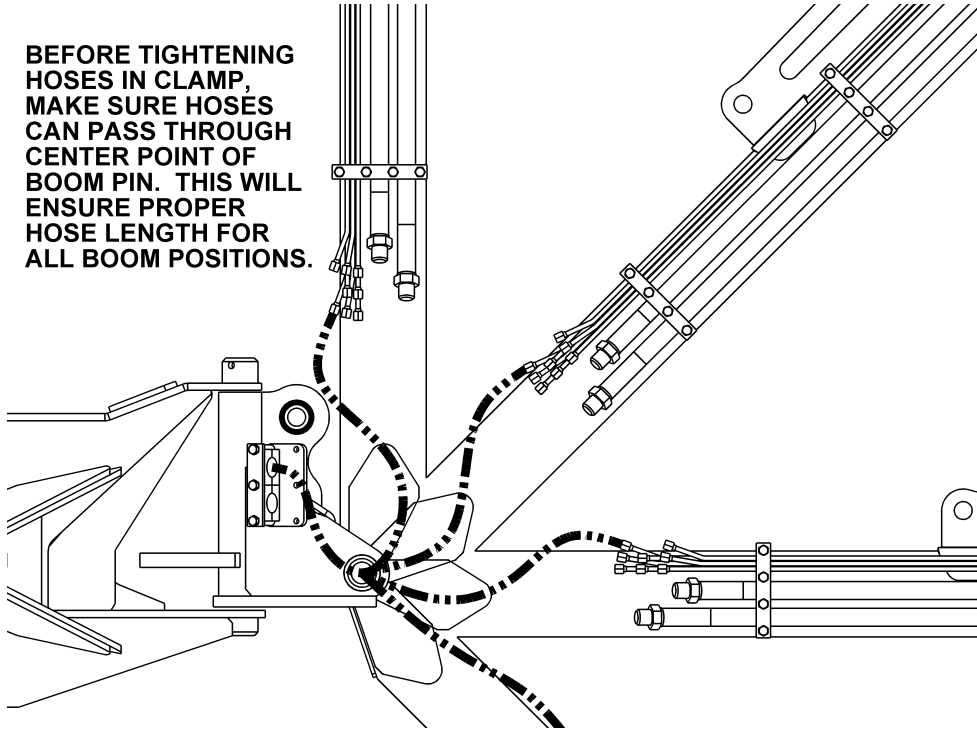
(ASM-PANTHER HOSE ROUTING-0001)



5 GG9 A 6 @M

D5 BH<9F <CG9 FCI H-B; 'ff CBHBI 98L

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.



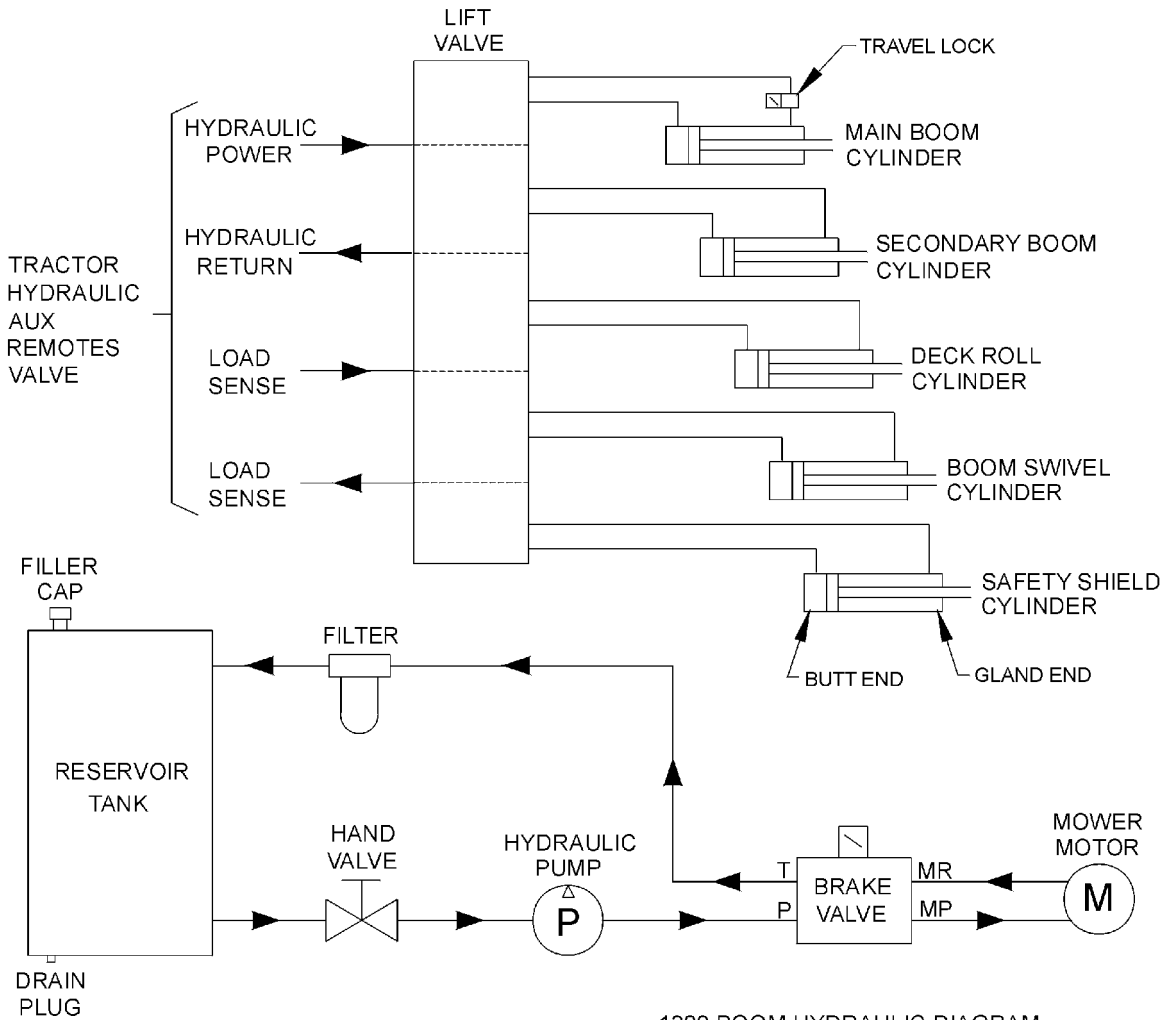
CE!æ * ^Á@ÁQ • ^ Á @ Á &æ] Á @ Á &æ @ • Á Á @ Á [{ Á [~ } ç * Á &æ ^ Á @ Á @ , } Á &æ [ç ^ É
 , á @ Á F - Á [ç ! Á Q • ^ Á &æ [• ^ • Á Á @ Á &æ ^ Á @ Á á @ Á c ! } Á Q • ^ Á &æ [• ^ • Á Á @ Á [{ Á &æ { É U ~ ||
 @ Á Q • ^ Á } * Á [{ Á @ Á , á ^ Á Á @ Á [~ } ç * Á &æ ^ Á @ Á &æ] • É @ } Á æ Á [{ Á Á ç Á Á ! , æ á É
 æ á Á @ } Á @ Á Q • ^ Á @ Á &æ] É
 T æ ^ Á ~ ^ Á @ Á F - Á [ç ! Á Q • ^ Á á [Á ç Á Á @ Á [{ Á &æ { Á Á Á [ç ^ á Á ç ç Á @ Á ç , á *
] [• á } É Á Q ç Á &æ] ^ } • Á @ Á [ç ! Á Q • ^ Á ç Á @ Á Á Á Á @ ! ç } ^ á É ^ &æ • ^ Á @ ! ^ Á Á [Á ~ &@
 @ • ^ Á ç ^ ^ } &æ] • É (ASM-PANTHER HOSE ROUTING-0001)



5 GG9 A 6 @M

(ASM-C-0023)

BOOM HYDRAULIC DIAGRAM



1320 BOOM HYDRAULIC DIAGRAM

G-89 < M8 F 5 I @ 7 'H5 B? -BGH5 @@HCB

Q • ca/As/Aacā • /As āAc ā • /As q /As \ /As āAca \ /As c' /As ā A @ , } /As ā@ Ūas ā Ū^ & cā } /As ~ • d aca } EA
Q • ^ / oca \ A ā @ A | as • /As q A [] o ā ā A /As | E
Ū | as A @ Aca \ /As ā@ A [] cā * /As | as ā ^ o A } /As ā ca ā A ca ^ /As ā A @ , } /As ā@ Ūas ā Ū^ & cā } EA
Ū ^ & ^ /As ā@ Aca \ /As ā@ ā@ Aca \ /As cā } ^ /As [~ } o ā A | as ā * /As ā@ cā } ^ /As [~ } o A } /As | A ā@ Aca \ /As ā A
cā A as cā | • /As c' /As ā@ Aq | • EV @ ^ as ā@ Aca ā | o ā@ | ~ o ā@ A as cā | • /As ā Aq | • /As ā@ ā@ ā A
q | • /As } /As ā ca ā A ca ^ EV ā cā } /As ā@ Aca \ /As cā } ^ /As [~ } o ā A • ā * /As ā@ cā ca ā A } /As ā A } ā A
cā Aca ā | o E
Q • ca/As/Aac' /As ā * /As q /As āAc' /As ā q * A [/As cā A [ā o A } /As ā@ ā ca ā A ca ā A ca q | /As ā A
& ^ as | /As ā ca ā A } /As ā@ A | ^ as | EA @ Aca \ /As ā@ ā@ /As ā A ca ā A } /As ā ^ as ā@ Aca \ /As ā | ā E Ū { ^ A
[/As ā@ A | E ^ cā } ^ ā Aca { • /As ā ca ā Aca ^ as ā /As • ca | ā E (ASM-MOTOR HYDRO-0001)



5 GG9 A 6 @M

: =@@B; `<M8 F5I @7`F9G9FJC=F

Ü^~!Á Á@Á æ c} æ &^Á^&c} Á|Á|á * Á|^&ææ} • Á@á|æ|æÁ á^~ á{ ^} • È

BCH9.`GUHj[b[`cf`fi bb]b[`nci f`H][Yf`a ck Yf`VYZfY Z`]b[`fYgYfj c]f`k]`WU gY Yf]ci g`XUa U Yhc `nXfU `]Wdi a d"

(ASM-C-0004hydro resrv)

=BGH5 @@B; `C!F=B; `: =HHB; G

Q•æþá * Á dææ @ÉÁ í óæ} áÁÉ@ÁÉæ * Á^~ á^• Á@Á@ÁÉæ * Áæ áÁ æ @!Á^Á] Áæ æ • Á@ •, æ^|Á[á^ÉÁ•^!ó@Á, æ^|Á[áÁ } / Á } çÁ@Á, æ^|Á[á c`áÁ Á@Á^• á^áÁá^&c} Áæ áÁÉ } íá * Á[} æóÁ Á æáÉÁP[íá, æ^|Á[Á^óÁ á^&c} Á æóÁ } !^} &@æ áÁ } Á@ÁÉæ * Á^~ óæ æ +{ Á@Á, æ^|Á[á^ Áæ áÁæ^~ || Á@ } ÉÁ(ASM-C-0056)

=BGH5 @@B; `B5H=C B5 @D=D9 `: =HHB; G

Y @} ^ç^!Á • æþá * Áæ á^Áæ * ÉÁ íæ Á@Á^æ • Á[&, á^Á[[\ á * Á@Á } áDá æóÁ +{ } æ^ÉÁQ@Á æÉ@Áæ^Á á|Á^Á@ } ^áÁ @ } Á • æ^áÉÁ UVÓÁÁÁ[ó^&••æ^ Áæ^ÁÉ } íá * Áæ * ÉÁ|ÁQ • ^Á • æ^áÁÁ, æ^|Á(ASM-C-0088)

DF9: CFA98`HI 69`=BGH5 @@H=C B

Šæ Á[[{ • Á } Á[[| Á | Á@Á@Áæ^Á æóÁ Á[æ } Á |æ • Á Á] ÉÁ[&æ ÁæÁ æ^Áæ } • Áæ á á • æ^Á@ { Á [• Á^ Á] ç Á@Á[æ } Á |æ • È
CE!æ * ^Á@Á æ^Áæ áÁQ • ^Áæ Á^ çá^áÁ Á@Á[{ [] ÁÚæ • Á^&c} ÉÁQ • æ^Á@Á æ^Áæ &[• ^Á@Á [{ Áæ { Áæ • ÉÁá * Áæ^~ | Á [Á Á á &@Á æ^Áæ • ÉÁÚæ^Á@Á @!Á æ^Á^ • çá^ [- Á@Á • óæ^Á] * ÁæÁæ } Á[| ÉÁ^ óÁ Á [óÁ @ } ÉÁQ @ & ÁæÁ æ^Áæ } { } c æ áÁ@Á [] ^Áæ^Á á &@áÁ Á^ } ÉÁV @ Á[æ } Á[| Áæ Á [, Á^Á@ } ^áÉÁ(ASM-C-0085)

; 9B9F5 @<CG9`=BGH5 @@H=C B

Ü^~!Á Á@Áæ • Á^&c} Á|Á^æ^áÁ } { } æá } Áæ[~ óQ • ^Áæ áÁæ * Á | Á@Á } |ææ } È
(ASM-C-0011)

<CG9`7CJ9F=B;

Ü^~!ÁQ • ^Á^ ç@!Á æóÁ Áæ^Á @!Áç^!Á [• ÉÁY íæ Á@ÁQ • ^Áæ^ç^Á } Á@Á, æ^|Áæ á { æÁ Á[[{ Á, æ@Á@ÁQ • ^Áæ ç^!Á] [çæ^áÉÁY íæ Á@ÁQ • ^Áæ^ç^Á } Á@Á æÁ[[{ Áæ á • ^Á } áæ^Á[[{ Á, æ@Á@ÁQ • ^Áæ ç^!Á] [çæ^áÉÁY @!ÁQ • ^Áæ æÁ } æóÁ@Áæ^Á | Á | @!^á^• ÉÁ íæ Á æóÁ] íÁQ • ^Áæ áÁ^&^!Á æóQ • ^Áæ } • Á | Á á Á • È
U) Á [] ÁæÁ } æ É@Á | • • ^Áæ áÁç^! } ÁQ • ^Á[{ Á@Á } d [Áçç^Á á | Áæ [Á^áÁ Á^ | ~ c`áÁ • æ^Á@Á | c`&c^Á^æÁQ • ^Á íæ ÉÁ[ç^!Á@Áçç^Áçç^Áæ * Á æ@Á@Á[[, ÁQ • ^Á ç^!Áæ áÁ^&^!Á æóÁæÁ á çá * Á [çæ^áÉÁ(ASM-C-0058)

577I AI @HCF`=BGH5 @@H=C B

Q•æþÁ@Áæ& { |æ íÁæá^óÁ } Á@Áá @Á æÁæ^Á æ óÁ | Áóçç^Á [~ ÉÁá] |ææ^ÉÁ æ@Á@Áæ • &^, • ÉÁ[&, æ @!Áæ áÁ] æÁ • ÉÁá } |ææ^ÉÁ Á Q, } Á@Á@Áæ • Á^&c} ÉÁ Q•æþÁ@Áæ& { |æ íÁ Á@Áæá^óÁ áÁ^&^!Á æóÁ@Áæ, æ^ÁQ, } ÉÁQ • æ^Áæ * Áæ áÁ Q • ^Á Á@Á[á^!Áæ áÁ[] d [Áçç^Á Á Q, } Á@Á@Áæ • Á^&c} ÉÁ g`YHZcb`Hdy`cb`U` d]dY`Z]Hj[g`fM`WdhC!f]b[gL(ASM-C-0012)



5 GG9 A 6 @M

GC @BC=8 '6 F5 ?9 'J5 @9

Q • ca|ÁÁ [^] [ãÁçç^Á } Á@Á [^] ç * Ááæ^ó ã@Á ~] | ááÁæá, æ^ÁæÁ @, } ÁÁ @
Úæø ÁÚ^&ç } ÁÁ @Á æ ~ æÉÁY @^Á • ca|á * Á@Ááç * ÁÁ Á@Ááæ^Áçç^É@Á |^&æçÁÁ }
c@Á] [| | Á æ Á@Á^ÁÁ Á^Á^ { [ç^áÁ Á æ^Á [[ÉÁY @ } Á^á • ca|á * Á@ÁÁ | ÉÁÁ ÁÁ] [| çæ çÁ
~ ^ Á [Á [| Á@Á Á ÁÉÁ • ÉÇ | Á ÉÁ ÉÁ • ÉÁ | ~ ^ ÉÁY ÇÉÇ ÖÖÁ XÓUÁUÜÜWÓÁVUÁ/PÓÁÓUŠ
Y ŠŠÁÓUWSVÁ Ö Á P Y ÖÜÜÜVŠÖÁ ÖÖŠWÜÖÁ ÖÁ ÜÜÜÜ ŠÉ (ASM-C-0025)

H9AD9F5HI F9 ; 5I ; 9'ACI BH; ; ÇUUVWPOŠD

T [^] ó@Á {] ^ | æ | ^ Á æ * ^ Á @ | ^ Á ÁÁ | ^ çá çá | Á@Á] ^ | æ | ÉÁÇæç@Á | ^ } ÁÇ
, á^Á [{ Á@Á^* æç^Á [• ç } Á@Á æ * ^ Á ÁÁ | ~ } á^áÁ [| ç } Á@Á æç | Áæ ^ ÉÁÜ^ [ç^Á çæ c
ãÁ^á^á^Á Á æ^ÁÁ [| áÁ | ~ } áÉÁÜ^ [ç^Á@Á ç^Á] * Á [{ Á@Á çá^ Á@Á@áæ | ÁÁ^•^ | ç [á
æ áÁ • ca|Á@Á [] ^ | æ | ^ Á } • [| Á • á * Á@Á æ^Á^æ ç^Á ç^Á ÉÁÜ^ } Á@Á @Á á^Á [{ Á@Á Ç
• ^ } • [| Á [• ç } Á@Á æ * ^ Á Á@Á {] ^ | æ | ^ Á } • [| Á } Á@Á@áæ | ÁÁ^•^ | ç [áÁ \ É (ASM-C-0051)

K <99 @K 9= <H'ACI BH; ;

Q | ÁÁ Á æ ç | • Á • á * ÁÁ [[{ Á [, ^ | ÉÁ @ | Á Á á @Á ç | Á^Á ~ á^áÁ | Á@Á æ Á • ç ÁÁ
, @ | ÉÁÁ ç | Á^Á^&••æ^ Á Á [^] ó@Á Á á @Á Á@Á @ | Á • á * Á@Á } * Áç • &^ • É
| | &, æ @ | • ÉÁæ, æ @ | • ÉÁ æ | • ÁÁÁ } | æá | ÉÁ á@Á ~ ç Á | Á@Á æ | æ ÁÁ @Á Áæø Á
Á^&ç } É

Q • ca|ÁÁ } ÁÁ [• ç æ ç ÁÁ] ^ Á ã@Á | Ááçç • ^ | ç * ÁÁ | ÁÁ @Á } ç | Á | ç } Á@Á @ | Á
^ á @ÉÁV@Á@æÁ Á@Áç • &^ • ÁÁ ÁÁ ÁÁ æá@ÁUWUÖÖÁ Á@Á Á á @ÉÁ ã@Áæ, æ @ | • Á
[] Á [c@Á@Á • çá^á^ á^ • çá^Á Á@Áæ • ^ { à | É

V@Á - ç^Á^Á^Á æ Áç [ÁÁÁ | ÁÁ ã@Á çç | Á^Á Á æ | Á ç áÁçç { ÁÇ | çá^Áá [~ ÁÁ
] [^] á^Á | Á ç [] ÉÁV^ÁÁ | • • | ^ Á @ | áÁ^Á çæ çá^áÁ&ç | áá * ÁÁ @Á çæ ç } ç &^ Á
U^&ç } É (ASM-C-0055)



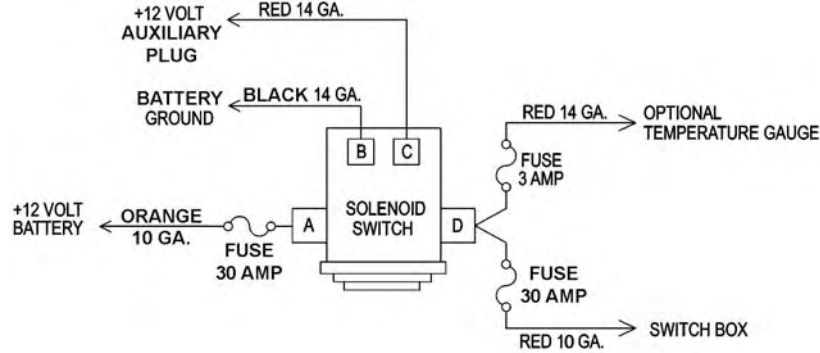
5 GG9 A 6 @M

7 CBHBI CI G'8I HMGC @BC-B GK #7 <

V[Á [~ } cÁ @ Á [^ } [ã Á , ã & @ Á • ^ Á @ Á cã cã * Á @ | • Á Á [& cã } Á @ , } Á ^ [, È Á V @ Á [cã { Á @ | ^ Á { æ Á ^ ^ á Á Á ^ Á [~ } á Á Á à cã Á @ Á [| ^ & Á @ | ^ Á } æ Á * Á Á æ & @ Á @ Á [^ } [ã Á , ã & @ Á [~ } È Ù ^ & | ^ Á ã @ Á [çã ^ á Á È + Á Á + Á cã & ^ , • È [& , æ @ | • È á Á @ c Á ~ • È



Á Á [~ c Á á • Á Á á á Á [{ Á @ Á [} cã [~ • Á Ö c Á Ú [^ } [ã Á , ã & @ Á Á @ , } Á ^ [, È Ò È Á Ü Ö È Ò Ö Á È Ö Ö È Á á ^ Á [{ Á : { á æ Á Ö D Á Á È F G X Á æ c ^ Á • á Á Á Á \ È Ò È Á Ü Ö Ö Á È Á Ö Ö È Á á ^ Á [{ Á : { á æ Á Ö D Á Á æ d | Á | * Á Á Á cã È Ò È Á Ö Ö Ö Ö Á È Á Ö Ö È Á á ^ Á [{ Á : { á æ Á Ö D Á Á È F G X Á æ c ^ Á • Á • È Ò È Á Ü Ö Ö Á È Ö Ö È Á á ^ Á [{ Á : { á æ Á Ö D Á Á , ã & @ [c È Ò È Á Ü Ö Ö Á È Á Ö Ö È Á á ^ Á [{ Á : { á æ Á Ö D Á Á [] ^ á c | ^ Á æ * ^ Á È [cã } æ È Á (ASM-JD-0083)



5 GG9 A6 @M

7 CC @F "ACI BHB; ' !G-89 'H5 B?

T [~ } ó@ Á& [|' Á [~ } ç * Á:æá ^ó Á } Á@ Á [Á^æÁ ã^ Á - Á@ Á ã^ Á@ á:æ |á Áç \ ÉÁ& | &æ^
 @ Á [|' Á [æ^ Á } Á@ Á [Á - Á@ Áç \ Áç á Á ^ & !^ Á@ Áç [|] |æ^ Á& [|' Á:æá ^ó Á } Á@ Áç \ Á ã@
 @ Á@ á, æ^ Á | çã^ á ÉÁ@ç@ Á & ^ } Áç á Á& [|' Á [Á@ Á:æá ^ó ÉÁ^ - Á [Á@ Á ç@ Á ^ & ç }
 ç Áç@ç@ Á@ Á@ . ^ . Áç á Áçç ç ! . Á [Á@ Á [|' Á ÉÁ (ASM-C-0092)



A5 -B'6 CCA -BGH5 @@HCB

Q • ç| Á@ Á [[{ Á, ç^ | ç ç Á@ Á çç + ç ^ Áç Á @, } Áç Á@ Á ç@ Á ^ & ç } Á . ç * Áç@ ç ç Á ç ^ Á } Á@ | .
 ç Á, ç^ | ç ç á Á çç + ç ^ Á | Áç * ^ Á, ç^ | ç ç Á ç ç á ç . ^ | ç ç ÉÁ^ & !^ Á ç@çá, æ^ Áç Á @, } É
 Çç@ç@ Á ç } ^ | Á } á Á - Á@ Á çç Áá [[{ Á [Á@ Á, ç^ | Á:æá ^ó Á ç@ç@ Á ç | ç á^ | Á ç & ç ! . Á [. çç } ^ á
 ~], æá Éç ç á Áçá ç @ ç } | ^ Á [Á@ Á çç | ÉÁ^ & !^ Á ç ç@ç@ Á | á [] çç@ç * ^ Á ç ÉÁ^ & !^ Á@ Á ç * ^ Á ç Á
 @ Á [. . Á ç@ç@ ç . & ^ . ÉÁ ç ÉÇ ^ Á ç@ç@ Á ^ & ç } É
 Çç@ç@ Á ç ^ ç } á Á - Á@ Á çç Á [[{ Á ç | ç á^ | Á [Á@ Á, ç^ | Á ç@ç@ Á ç | ç á^ | Á ç ç ç á Á | Á ç . Á @, } Á
 @ Á ç@ç@ Á ^ & ç } É
 Q • ç| Á@ Á ç ç^ | Á [& Á } Á@ Á [á Á } á Á - Á@ Á çç Á [[{ Á ç | ç á^ | ÉÁ ç Á @ ~ | á ^ Á ç ç * Á@ Á ç ^ ç } á Á -
 @ Á ç | ç á^ | Á ç ^ | Á . çç | çç } É
 Q • ç| Á@ Á ç ç * . Á ç á Á@ . ^ . Á [Á@ Á çç Á [[{ Á ç | ç á^ | Á ^ | Á ç@ç@ Á ^ & ç } É

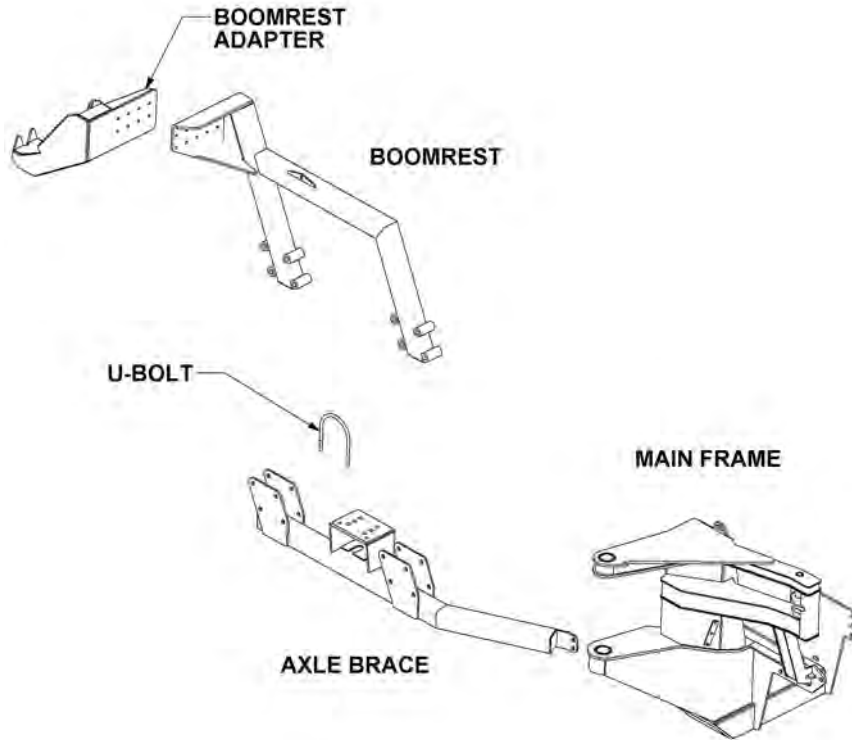
; F95 G9 < -B; 9'D-B'N9F?G'CB'6 CCA'5: H9F' 5 GG9 A6 @E'CB79'I B89F'@C58'K #K'6 CCA
 9 @J5H98'5 B8'5; 5-B'5H'F9GH'K #K'6 CCA'GI DDCFH98 (ASM-C-0013)



5 GG9 A 6 @M

G-B; @ 7 C @ AB 6 CCAF9GH'ACI BHB;

Ôæ^~||^Á, ^!Á@Á[[{ |^•óá áÁá } Á@Á@|^•Á á@Á@•^Á -Á@Á@|^Á!áá^ÉÁ, Á•cá|Á@
 ááá@*Ááá, á^Á@Á@, }Á@Á@Áá@Á^&á }Á[[|^!ÉÁ Á@[[, Á!Á@Áá }{ ^ } óá á@Á@Á@|^
 à!áá^ÉÁ@^}Á@|^~^Á@Áá, á^Á }Á@Á@|^Á!áá^Áá á@Á@[[{ |^•óá^Á(ASM-JD-0084)



897? 5H57 < A9BH

Ôæá@Á@Á@áÁ Á@Á^& }áá^Á[[{ Á•á*Á@Áá•Áá áÁáá, á^Á@, }Á@Á@Áá@Á^&á }Á
 d Ááá@Áá \ á^•ÉÁ@•cá|Á@Á~ á^Á á^Á }Á@Á@|^Á@Á@áá d Á@Á@áá }{ }óá áÁ^&!^Á
 ~•á*Á@Á|^}cá*Á|ááá áÁáá, á^Á@Á@, }ÉÁ@Á|^}ó@|^!á^Á|^}^áÁ Á@Á@-óáá^Á-Á
 @Á&^!Á@ááÉÁ@•cá|Á@Á^&Áá@|ó&|áá^Á•á*Á@Áá•Áá áÁáá, á^Á@|Á@, }Á@Á@Áá@Á
 Á^&á }É

Ô[]^&@Ááá *Áá áÁ@•^Á{ Á@Á@|ó&|áá^Á Á@Á{ cá|^|^|{ ^áÁ á^Á }Á@Á[[{ Á
 á{ ÉÁ@[]^&@Ááá *Áá áÁ@•^Á{ Á@Á@|^Á@Á@á^Á|^|^|{ ^áÁ á^Á }Á@Á[[{ Áá{ É
 Ô[]^&@Á^ }{ }áá *Á@•^Á{ Á@Á@|^}d|^!áá^Á Á@Á@|áá^Á|^|^|{ ^áÁ á^Á }Á@Á
 à[[{ Áá{ ÉÁ@^!Á Áá@Á^&á }Á!Ááá!á •É

6 YZfY dfcWYX]b['lc'h YZ]bU`dfYd UfU]cb' ghYd'Xc i v'Y W YW'h YWta d'YH
 UggYa V'mZca 'h Y'a U]b'ZUa Y'lc'h Y'W HfYf\ YUX'U] U]bgh'h Y'X]U] fUa g']b'h Y'DUfYg
 GYW]cb'Zc'f'fcdYf'd`UWYa YbhUbX`UggYa V'micZU`Wta dcbYbYg"(ASM-C-0060)



5 GG9 A 6 @M

: -B5 @DF9 D5 F 5HCB: CF`CD9 F 5HCB

Ujæ^Á] ^iæ | CÁ æ^c Áæ áÁ] ^iæ } Á^æç Á } Á@Á c^iá * Á | { } Áæ áÁ æ^Á } . [| Á @ | ^ c@ ^ Áæ ^ Áæ | Áæ æ^Á Á@Á] ^iæ | ÉÁV@ . ^ Áæç Á @ | áÁ^Á } á^ . ç [áÁ^ Áæç] ^iæ | Á ~ c@Á æç ^ Áæ } b } &ç } Á æç@Á æ^c Áæ áÁ] ^iæ } Á^æç Á } Á@Á Á [| ÉÁV@ Áæç Áæ^Á á^Á } æç æç ^ áÁ } Á [| áÁæ } áæ } Áæ Áæ^ { } á^ Áç Á@Á] ^iæ | ÉÁæ áÁ @ | áÁ^Á^ | æç áÁæ áæ æ^áÉ

Qæ æ | ÉæÁ [. . . É] á . Áæ áÁ æ [ó] [á . Á . á | Á] ^ áÁç Áæ^Á ^iæ ^ áÁæ Áæ . ç ^ &ç áÁæ Á@ Á æç ç } æç Á^æç } Á | Á@Á } æç æÉÁV@ Á@ áæ | Á^Á . ^ iç [áÁæç Áæ . [Áæ^Áæ^Á æç@ | ^æ { { ^ } á^áÁ^ æç^Áæ ç } æç Á^æç } Dæç áÁ@ Áæç Áæ . ç | áÁæ Á@ Áæ } Á | Á@Á æç \ É Ö | ^ á^Áæ & Áæ Áæç * . Áæ áÁæ ç } ^ . ÁÖÖÖÜÜÖÁ æçç * Áæçç | ÉÁV@ | Á^æç Áæ^ Á [| . Á@ . ^ . ç * ^ c@ | Á æç áÁæ Áæ ç } Áæ áÁæ | æç . ^ . Á @ | ^ Áæç } Á æç Áæç } Á @ Á@ . ^ . É



ÖÖÖÜÜÖÁ æçç * Á | Á] ^iæ * Á@Áæçç | Á | ^ Á ^ . ç ^ æç áÁ } á^ . çæ áÁ@Á Áæç Áæ^Á] ^iæ } Á^æç } Á | Á@Á } æç ç | | ^ c | É

69`G1 F9`H<9`65 @J5 @9G`5F9`CD9B`...Üæççæçç | Áæ áÁæ [, Áæ . ç { ^ } ç Á Áæçç ^ É Wá * Áæç ç Áæ Áæ ç | Á | Áæçç [æçç Áæ ç | ç áÁæ Á@Á æçç Áæ áÁæ ç } æç Á^æç } . Éæç & Áæ çç * . Áæ áÁæ } } ^ çç } . Á | Á@ áæ | Áæ ç . É

Qæ Áæ Áæ Áæ } áÉ [^ Á ^ . ç @ áÁ , } Á@Áæçç | É^ ^ ç@ Áæ ç | Á } Á@Á | ^ } áÉÁÖ^ | ^ æç { } ç * Áæ Áæ Áæ Áæ É [^ Á ^ . ç æç æç Á@Áæçç Áæ ç | ^ Á ^ ç | áÁæ ^ . Áç Áæ^Áæ ^ | | . ^ . ^ Áæ Á@ Áæ . É

6 YZ`fY`cdYfUj]b`'H`Ya`ck`YfÉ@Áæ ç | Á@ æçç áÁæ [| Á @ | áÁ^Á | | , | Á [ç^áÁ@ | ^ * @ | ^ c @ Á | | Áæ * ^ Á Á [ç] ÉÁV æçç Áæ ^ Áæ } áæ } Á@Á [| áÁæç . ^ Á ç &ç * Á | Áç & . . Áç . ^ . Á } c@Á@ . ^ . ÉÁV@ Á c^iá * Áæ áÁ [} Áæ^Áæç^Á @ | áÁæ [Á^Áæç ^ | | Á [ç^áÁ@ | ^ * @ | áÁ | | æç * ^ Á Á [ç] ÉÁV Áæ ^ Áæ } áæ } Áæç ! . Á Á @ Á@ Á@ . ^ . Áæ } æçç@Áæ . É@ Á c^iá * Áæ áÁ [| Á] Áæ^Áæç^Á æç Á^áÁæ Áæ^Áæ æçç Áæ . & æçç Á@Áæçç | Á] ^iæ | CÁ æç ç ÉÁV@ . ç | áÁæ [Á^Áæ] ^ Áæ@Áæ . Á ^ áÉ | Áæ^Áçç^ | ^ Áæ | . ^ Áæ Áæ ^ Á c@ | Áæ ç | Á@Á [, ^ Á ^ &ç c@Á@ áæ | Áæç } Á | Áæçç^æç ÉÁV@ Áæ çæç & ^ áÁæçç * Á ç . É | Áæç . ç * Á ç] Á [| ç Á@ Á@ çæçç | Á] ç Á [ç^Á@Á | | á^ { ÉÁV @ | Áæç & ç * Á [ç] É [^ Á @ | áÁæ [Áæ & Áæçç | Á] ç | &æç ç Áæ^Áæ } ^ &ç áÁæçç | áæ * Á Á@Á] ^iæ | CÁæçç Á | Á@Áæçç Á@Áæ ç | ^ . É

ACK 9F`H9GH-B;

Væ Á@Áæçç | Áæ Áæ | Áæ^Áæ^Áæ Á [. ^ Á æç &ç Á } Á@Á | ^ } áÉÁV] ^iæ Á@Áæ ç á^ . Á@ | ^ * @ c@áÁ | | Áæ * ^ Á Á [ç] Áæ æç ÉÁ Áæ^Áæ Á@Áæ . Á Áæ ÉÁV@ | | , Á@Áæ . ç ^ çç } . Áæ Á@Á] ^iæ } Á^æçç } Á | Á] ^iæ Á@Á [, ^ ÉÁV æçç } Á | Á@Á [, ^ Á @ | áÁ^Áæ ç ç æçç Áæ^Áæ . ÉÁV ç | Áæ { } ç ^ Á . ç ^ } É@Á } áÁæ | | . Á @ | áÁ^Áæ ç | ^ áÁæç áÁ } & Áæ æç Áæç | Á@Áæ . ç , Á@ | ^ Á ~ [] ^iæ } É

-Z Ubm dUf hg`cZH]g`5 ggYa` V`miGYW]cbz`cf`Ubmich`Yf`gYW]cb`cZH]g`a Ubi U`UFY bchWYUf`mii bXYfglrcX`nci`a i ghW`bHJWinc i f`XYUYf`cf`H`Y`UXXfYgg`cb`H`Y`Z`cbhcZ`H]g`a Ubi U`Z`f`Ugg]ghU`bW` (ASM-C-0010)



CD9 F5 HCB' G97 HCB

UJ ^:aa } Á^&a } ÁÆ

CD9F5HCB

H 9F'6CCA'ACK 9F

CD9F5HB; 'BGHFI 7HCBG

CD9F5HCB

Va^!ÁÓ[[{ •Áe^Á e} ~æc^!^áÁ ã@Á ~æc^Á æ^!æ^Á Á]á^áÁ [[!^•ÉÁV@ÁÓ[[{ ÁÁ ÁÁ•á }^áÁ Áææ&@Á Áe
dæd^!Áe} áÁ] ^!æ^Áæá ~Á@æ•Á^!Áe} ã^Áe} *^Á Áç^*^ææ^Á æ} e} æ^Áæ] |ææ} •ÉÁV@Á[[{ Áe} á
@æ•Áe^Á ~} á] á^Á ã@Á æ^c^Á æ} } *Áá&æ ÉÁ [[e&ç^Áá^!^&ç^! •ÉÁ @|á •Ée} áÁ @!Áæ^c^Áæ^!^Áç
]] çæ^Á] ^!æ^!Áe} áÁæ^!^Á] [e&ç^! ÉÁ, ^ç^!ÉÁ [Á @|áá *Á ÁÉÉÁ Áæ&^!æ ÉÁÇÉÁæ^c^Á ~} á { ^} e} á
•æ^c^Á æ} } *Áá&æ Á ~•e^Á æ} æ} á^Á } Á@Á } ãÁ Á[[áÁ] ^!æ} æ} } áá } Áæ^!Á ~•É

QÁ Á@Á] ^!æ^!Áe} | qÁ^•]] •ææç Áç Á^Á] , |á^*ææ^Á Áç^!Á] [e} çæ^!] ^!æ} *Áe æá•Áe} áÁ Áæ^Áç^!
!^æ] æ^!Á] ^!æ^!Áe} ç^! Áç^! Á } ^!Á } ^•^! ÉÁ @! •Ée} á æ^!Ée} áÁ]] ^!c^Áæ^Á] [e} b^!áÁ] |Áæ æ^!áÁ^ Á@
à[[{ Á } áÁææç^! Á] Áæ^!Áe}] , } Á áb&ç^! Á [e}] ^!æ^!Áe} Á[[{ Áe} áÁææ&@áÁ@æ^!Á ~} æ^! •ÉÁ æ^! •á^É
] ^!ç^! Á] Áç^! & Áæ^Á ã@Á ÁÉÉÁ^!ç^! Á@Á } æÉ

V@Á^Á&ç^! } Á Á@Á] ^!æ^!Áe} | qÁ e} æ^!Á ÁÁ•á } ^áÁ Áæ ææá^ÉÁ •ç^! &ç^! áÁá ~ææ^!] ^!æ^! •Á Á@Áæ^!Áe} á
]]] ^!Á •^Á Á@Á[[{ Áe} áÁææ&@áÁ@æ^!Áe} ^!Áç^! Áç^! } æ} á^Á Á@Á Á^Á&ç^! Áæ^!Áe} e} á^ÁÁ Á^Á •^áÁe Áe
çá ~æ^!Áe} Áe •á e} Áç^!] æ} } *Á@Á] ^!æ^!Áe} Á Áç^![[{ Áe} áÁæ^!Á [e}] ^!æ^!Áe} Áç^![[{ ÉÁV[[^!Áæç^!^Á çé
•ç^! Á @|á •Á^! [ç^!ÁÁ] @e} &Áç^! ~æææç^! ÉÁ ÖXÓUÁ] ^!æ^!Áe} Á[[{ Á } áÁ æ^!Áæ^c^Á ~} á { ^} e} á
] |æ^!Áe} áÁ Á[[áÁ] ^!æ^!Áe} } æ^! Á] áá } ÉÁV@Á] ^!æ^!Áe} | Á ~•e^Áææ ææÁ ã@Á Á[[{ Á } áÁ æ} áÁææç^!
]] ^!æ^!Áe} Áe} áÁæ^!Áe} ç^! Áææ^!Áe} ^!Á^!Áe} } } *Á] ^!æ^!Áe} ÉÁV[[^!Á] ^!æ^!Áe} ÉÁ Áæ^!Áe} áÁ Á@Á e} æ^!Á]
@]] Á } •^!Áæ^!Áe} Áæ^!Áe} áÁæææç^! ^!Á^!Áe} Á@Á]]

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

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SAFETY INSTRUCTIONS



PELIGRO

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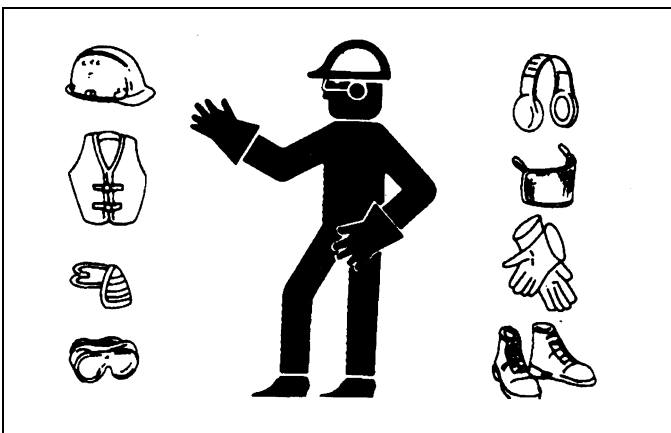
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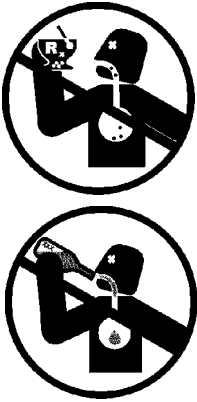
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OPS-B- 0017

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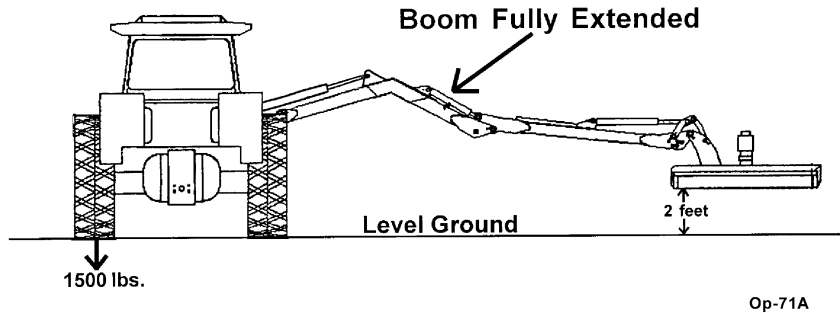
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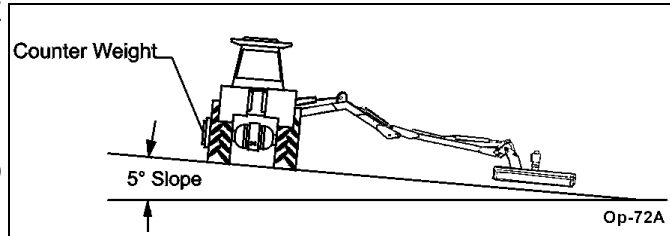
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Upright Forklift Capacity

When operating the forklift, the operator must ensure that the load is properly secured and balanced. The maximum capacity is 1500 lbs. when the boom is fully extended on level ground. The operator should always use proper lifting techniques to avoid injury and damage to the equipment.



When operating on a slope, the operator must take extra precautions. The counterweight is designed to maintain stability on inclines. The maximum capacity is reduced on slopes. The operator should always use proper lifting techniques and avoid carrying loads on slopes.



9HCB; CB5B8C: : H<9HF57HCF

When operating the forklift, the operator must ensure that the load is properly secured and balanced. The maximum capacity is 1500 lbs. when the boom is fully extended on level ground. The operator should always use proper lifting techniques to avoid injury and damage to the equipment.

WARNING

When operating the forklift, the operator must ensure that the load is properly secured and balanced. The maximum capacity is 1500 lbs. when the boom is fully extended on level ground. The operator should always use proper lifting techniques to avoid injury and damage to the equipment.



Upright

Capacity

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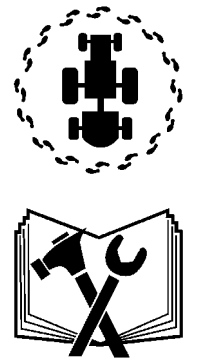
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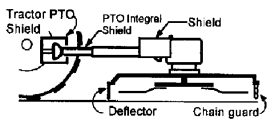
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Op-14

ÖÜCF ÒÁÇUÒT ÓŠY

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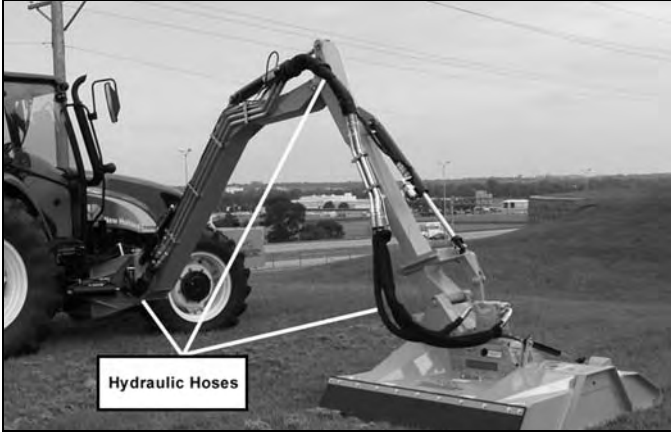
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Hydraulic Hoses

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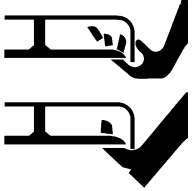
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WARNING

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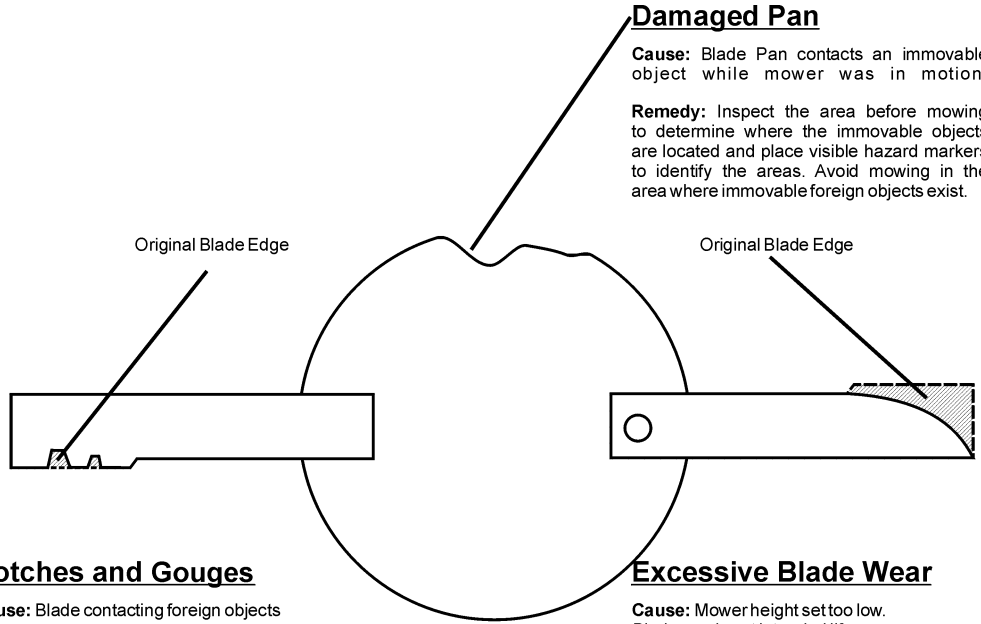
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Damaged Pan

Cause: Blade Pan contacts an immovable object while mower was in motion.

Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.

Notches and Gouges

Cause: Blade contacting foreign objects

Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades

Excessive Blade Wear

Cause: Mower height set too low.
Blade used past intended life.

Remedy: Replace blades more often.
Adjust mower height for mowing
Conditions to eliminate blade-to-ground contact

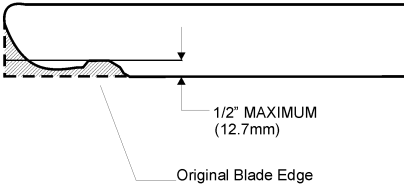
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NOTE:
Replace Blades in pairs after no more than 1/2" (12.7mm) wear
Op-23

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Tractor PRE-OPERATION Inspection



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6YZ:fY W:bXi Wj[b['H Y' jbgdYWjcbž a U_Y gi fY H Y fUWcf `Yb[]bY']g'cZZ U` `fcUjcb
 \ Ug' grcddYX' UbX' H Y fUWcf ']g']b' dUf_ ' k]h 'H Y dUf_]b[`VfU_Y Yb[U[YX" AU_Y gi fY
 H Y' a ck Yf']g' fYghj[b[` cb' H Y' [fci bX' cf' gYW fY mi VcW_YX' i d'UbX' U` ` \ mXfU']W
 dfYggi fY \ Ug' VYYb' fY]Yj YX"

CD9 F5 HCB

| Kgo | Eqpf kqap'cv'Uctv'
qh'Uj klv | Ur gekle'Ego o gpw'
khpqv'QMO |
|---|---------------------------------|----------------------------------|
| Vj g'hrcuj kpi 'hki j w'hwpevkqp'r tqr gtn[| | |
| Vj g'UOX'Uki p'ku'ergcp'cpf 'xkukdrg | | |
| Vj g'ktgu'ctg'kp'i qaf 'eqpf kqap'y kj 'r tqr gt'r tguwmg | | |
| Vj g'y j ggn'hw' dqrnu'ctg'ki j v | | |
| Vj g'tcevqt'dtcng'ctg'kp'i qaf 'eqpf kqap | | |
| Vj g'uvgtkpi 'hpnai g'ku'lp'i qaf 'eqpf kqap | | |
| Vj gtg'ctg'pq'xkukdrg'qkdhgcmu | | |
| Vj g'j { ftcwke'eqpvqnu'hwpevkqp'r tqr gtn[| | |
| Vj g'TQRU'qt'TQDU'Ed'ku'lp'i qaf 'eqpf kqap | | |
| Vj g'ugcvgdgn'ku'lp'r rreg'cpf 'kp'i qaf 'eqpf kqap | | |
| Vj g'5/r qkpv'j keij 'ku'lp'i qaf 'eqpf kqap | | |
| Vj g'f tcy dct'r kpu'ctg'ugewgn' 'kp'r rreg | | |
| Vj g'RVQ'o cngt'uj kgrf 'ku'lp'r rreg | | |
| Vj g'gpi kpg'qkdhgxnku'hwm | | |
| Vj g'dtcng'hwkf'rgxnku'hwm | | |
| Vj g'r qy gt'uvgtkpi 'hwkf'rgxnku'hwm | | |
| Vj g'hwgn'hgxnku'cf gswcvg | | |
| Vj g'gpi kpg'eqqrcpv'hwkf'rgxnku'hwm | | |
| Vj g'tcf kcvqt'ku'ltgg'qh'f gdtku | | |
| Vj g'ck'hwgt'ku'lp'i qaf 'eqpf kqap | | |

Qr gtcvqtai'Uki pcwtg<

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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CD9F5HCB

Boom PRE-OPERATION Inspection



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 a ck Yf 'jg'fYg]b[' cb' H Y [fci bX'cf' gYW fY miV'cW_YX' i d'UbX'U' \ mXfU']WdfYggi fY' \ Ug
 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 gtcvtat'O cpwcrku'lp'yj g'tcevqt | | |
| Cmluchgv' f gecni'ctg'lp'r meg'cpf 'rgi kdr | | |
| Vj g'o qwpvpi 'htco g'dqnu'ctg'lp'r meg'cpf 'kij v | | |
| Vj g'dqgo 'eqppgevkp'dqnu' ('r kpu'ctg'kij v | | |
| Vj gtg'ctg'pq'etcemi'lp'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'eqpvqnu'hpvevkp'r tqr gtn | | |
| Vj gtg'ctg'pq'rgcnkpi 'qt'f co ci gf 'j qugu | | |
| Vj g'j { ftcwle'qkl'rgxgriku'hw | | |
| Vj gtg'ku'pq'gxkf gpeg'qh'j { ftcwle'rgcni | | |
| Vj g'drcf gu'ctg'pqv'ej kr gf . 'etcemgf 'qt'dgpv | | |
| Vj g'drcf g'dqnu'ctg'kij v | | |
| Vj g'f ghgevqtu'ctg'lp'r meg'cpf 'lp'i qaf 'eqpf kklq | | |
| Vj g'dqgo 'uj lgrf u'ctg'lp'r meg'cpf 'lp'i qaf 'eqpf kklq | | |
| Vj g'unkf 'uj qgu'ctg'lp'i qaf 'eqpf kklq'cpf 'kij v | | |
| Vj gtg'ctg'pq'etcemi'qt'j qgu'lp'dqgo 'f gem | | |
| Vj g'j { ftcwle'o qvt'o qwpvpi 'dqnu'ctg'kij v | | |
| Vj g'dqgo 'j gcf 'ur kpf rg'j qwukpi 'ku'kij v'cpf 'hwdtlecygf | | |

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DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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CD9F5HCB

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Control panel for the CD9F5HCB, showing various functions and their corresponding symbols.

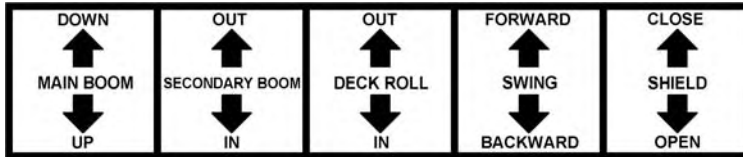
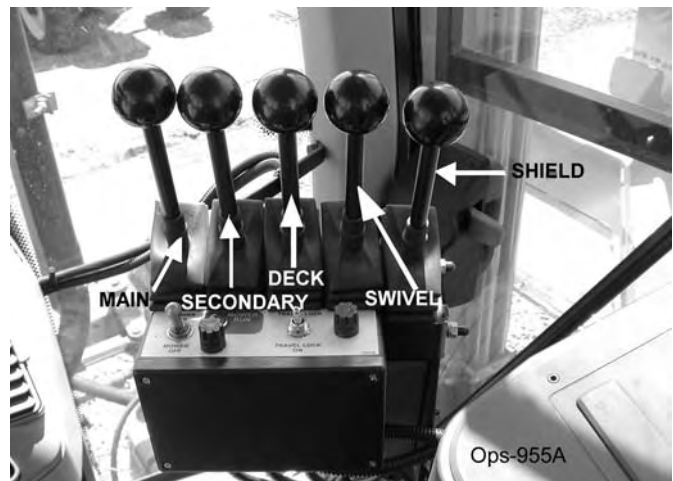
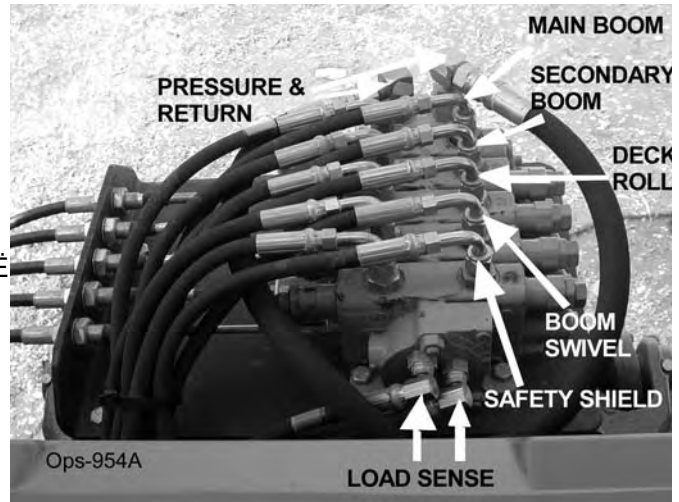


Diagram illustrating the control panel layout and the corresponding hydraulic lines for the CD9F5HCB. The panel includes controls for the Main Boom, Secondary Boom, Deck Roll, Swing, and Shield. The hydraulic lines are labeled with their respective functions: Pressure & Return, Main Boom, Secondary Boom, Deck Roll, Boom Swivel, Safety Shield, and Load Sense.



Control panel

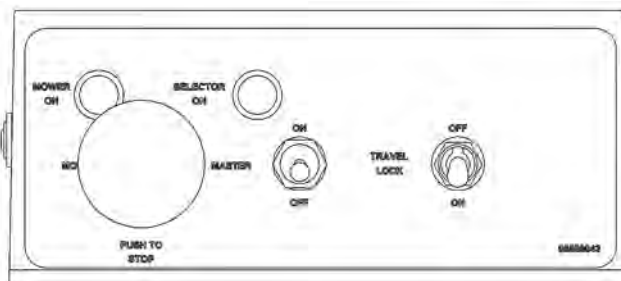
Hydraulic lines

CD9F5HCB

CD9F5HCB

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DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

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| <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"> • 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. <ol style="list-style-type: none"> 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. 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. 3. Repair or replace Safety Shield and Deflectors as needed. 4. Always transport with Safety Shield and Deflector closed. |
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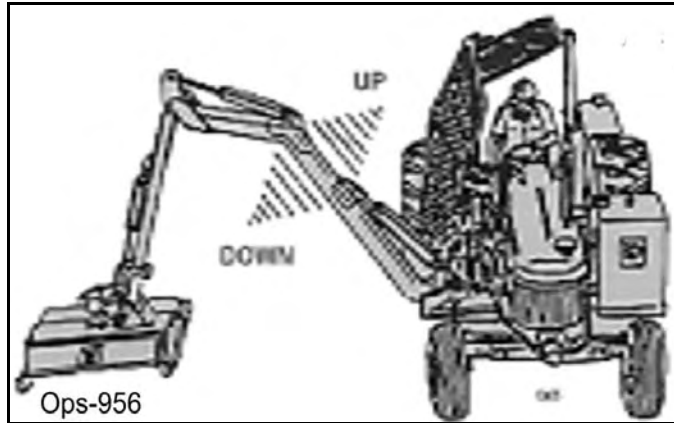
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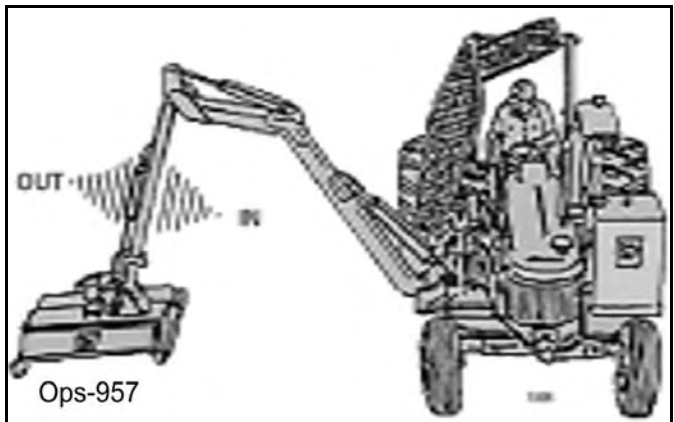
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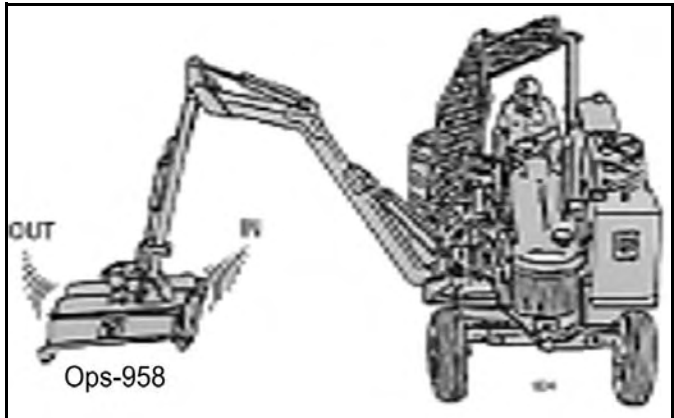
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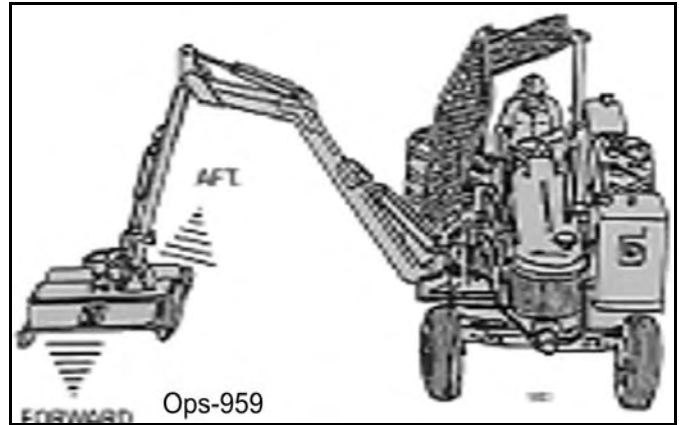
Όλες οι πληροφορίες σχετικά με τον εξοπλισμό μας είναι διαθέσιμες στην ιστοσελίδα μας.

Όλες οι πληροφορίες σχετικά με τον εξοπλισμό μας είναι διαθέσιμες στην ιστοσελίδα μας.

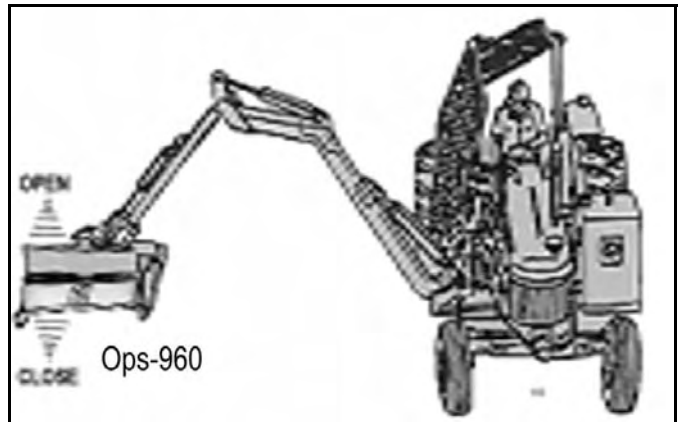
CD9F5 HCB

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ΣΧΟΔΙΑΣ ΜΟΥΤΑΚΟΣ



ΣΧΟΔΙΑΣ ΜΟΥΤΑΚΟΣ



Όλες οι πληροφορίες σχετικά με το προϊόν αυτό, συμπεριλαμβανομένης της εγχειρίδας, είναι διαθέσιμες στην ιστοσελίδα της εταιρείας μας.

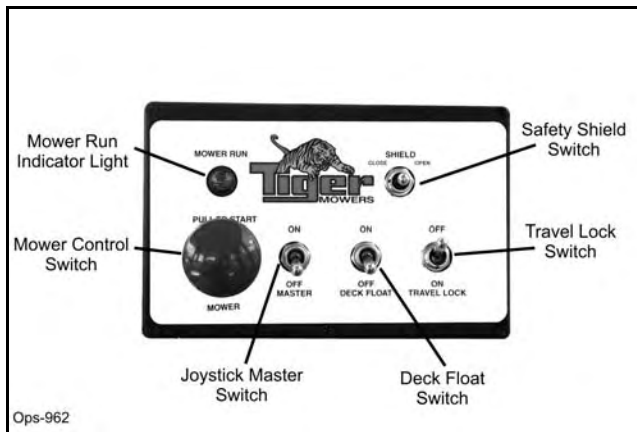
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CD9F5HCB

CD9F5HCB

Control Panel

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



Always use the control panel correctly. The Safety Shield Switch must be closed before the mower can be started. The Travel Lock Switch must be turned off before the mower can be driven. The Deck Float Switch must be turned on before the mower can be used.

! 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

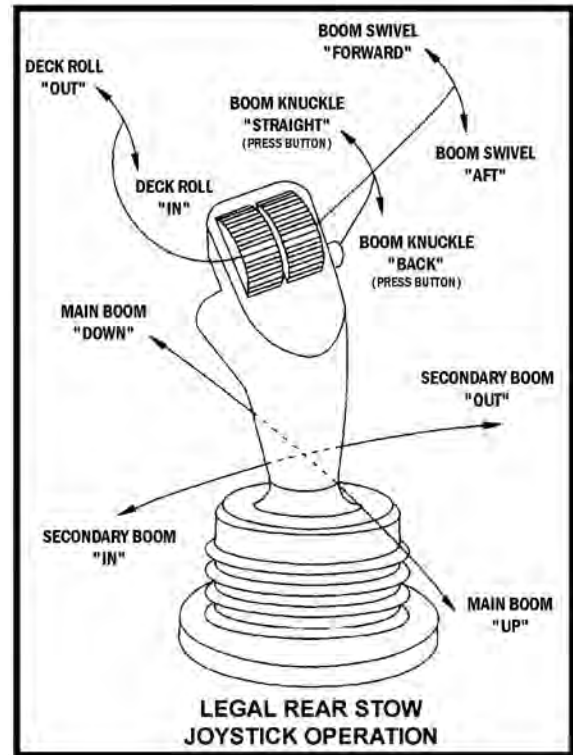
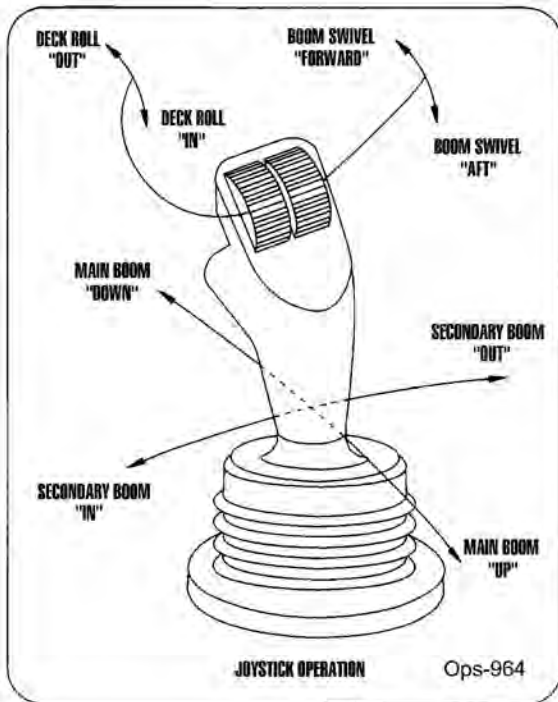
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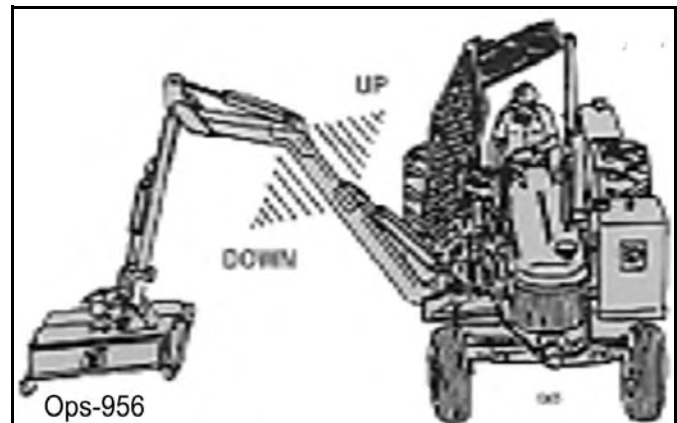
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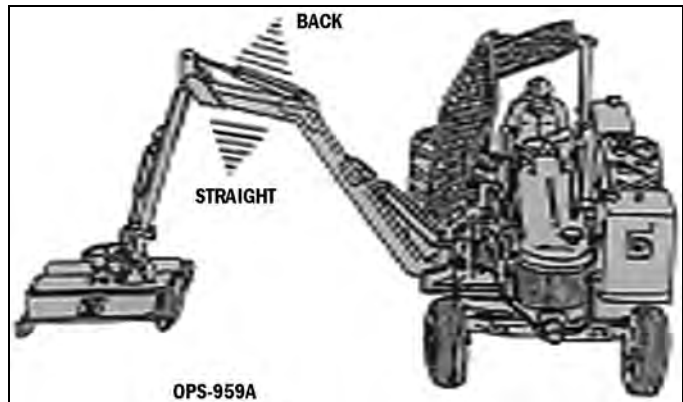
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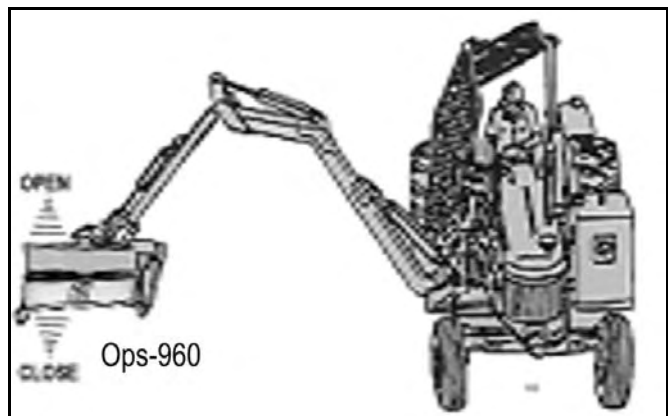
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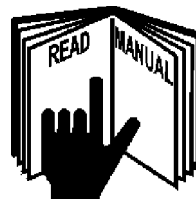
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DANGER

1. **READ THE MANUAL** before operating the machine. The operator must read the manual carefully and understand all the instructions and warnings. Failure to do so may result in injury or death.

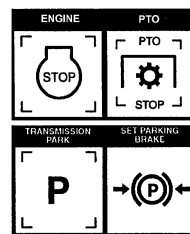


WARNING

2. **STOP THE ENGINE** when refueling. Do not smoke or use open flames. Fuel vapors are highly flammable and can cause fire or explosion.

DANGER

3. **DO NOT OPERATE THE MACHINE** if you are under the influence of alcohol, drugs, or fatigue. Operating the machine while impaired can lead to loss of control and accidents.



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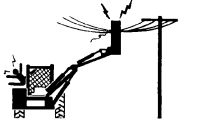
WARNING

Բացվելիս մեխանիզմը (, ՎՊ) առնչվում է զանգվածային շարժմանը և կարող է շարժվել անսպասելիորեն: Սխալ կիրառման դեպքում կարող է պատճառվել վնասվածքներ:



DANGER

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H<9' CD9F5HCF' AI GH' 7CAD@H9@M'I B89FGH5B8' <CK' HC' CD9F5H9' H<9'HF5' 7HCF' 5B8 ACK9F'5B8'5 @7CBHFC@G'9: CF9'5HH9ADHB; 'HC'ACK"AV@A] Վառարկելիս կարող է ծագել հրդեհ: Արագ արձեղանքով շարժվելիս կարող է ծագել հրդեհ: Արագ արձեղանքով շարժվելիս կարող է ծագել հրդեհ: Արագ արձեղանքով շարժվելիս կարող է ծագել հրդեհ:

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CD9 F5 HCB

WARNING

Όταν χρησιμοποιείτε αυτόν τον εξοπλισμό, πρέπει να τηρούνται οι ακόλουθες οδηγίες ασφαλείας. Διαβάστε προσεκτικά το εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών.

WARNING

Πριν χρησιμοποιήσετε αυτόν τον εξοπλισμό, πρέπει να διαβάσετε προσεκτικά το εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών. Διαβάστε τις οδηγίες ασφαλείας που βρίσκονται στο εγχειρίδιο οδηγιών.

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On-Off Switch

The On-Off Switch is used to start and stop the engine. It is located on the right side of the operator's seat. To start the engine, turn the key to the "ON" position. To stop the engine, turn the key to the "OFF" position.

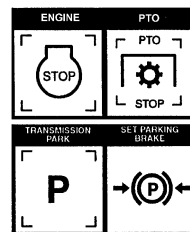


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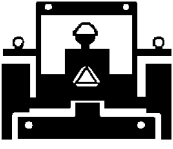
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Op - 46

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MAINTENANCE SECTION

Maintenance Section 4-1

MAINTENANCE

General Instructions

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

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

Maintenance Precautions

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

WARNING

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

Break in Period

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

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

DANGER

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



MAINTENANCE



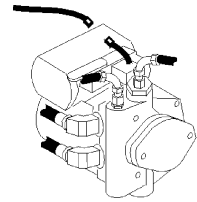
WARNING Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)



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



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



MAINTENANCE

MAINTENANCE

Regular Maintenance

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

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

Daily or Every 8 Hours

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

Boom

Maintenance Section 4-4

MAINTENANCE

MAINTENANCE

WEEKLY OR EVERY 40 HOURS

| ITEM | SERVICE | COMMENTS |
|----------------|-----------|--------------------------|
| Rotary Spindle | Lubricate | Every 40 hours or weekly |

WEEKLY OR EVERY 50 HOURS

| ITEM | SERVICE | COMMENTS |
|---|---------|--|
| In Tank Hyd. Fluid Filter
10 micron filter) | Change | Change after first 50 hours only, then every 500 hours or yearly |
| In-Line High Pressure Filter
(10 micron filter) | Change | Change after first 50 hours only, then every 500 hours or yearly |

MONTHLY OR EVERY 150 HOURS

| ITEM | SERVICE | COMMENTS |
|-----------------------|---------------------|--------------------------------------|
| Hydraulic Fluid Level | Check | Add as needed |
| Hyd. Tank Breather | Clean/Check/Replace | Clean or replace element as required |
| Rear Tire Type | Max P.S.I. | |
| 480/80R38 | 29 | |
| 18.4-34 | 26 | |
| 18.4-38 | 26 | |

YEARLY OR EVERY 500 HOURS

| ITEM | SERVICE | COMMENTS |
|--|-----------|---|
| Spindle Grease | Change | |
| Hyd. Tank Fluid | Change | |
| In Tank Hyd. Fluid Filter
(10 micron filter) | Change | |
| In-Line HP Filter
(10 micron filter) | Change or | Change when indicated by restriction indicator. |
| Hyd. Tank Breather | Change | |

MAINTENANCE

TROUBLESHOOTING

| SYMPTOMS | CAUSE | REMEDY |
|------------------------------------|---|--|
| Vibration | <ol style="list-style-type: none"> 1. Loose bolts 2. Cutter assembly unbalanced | <ol style="list-style-type: none"> 1. Check all bolts and tighten to recommended torque specs. 2a. Check for damaged blades, disc or cuttershaft. Replace if needed. 2b. Check for wire, rope, etc. entangled in the cutter assembly |
| Mower will not lift | <ol style="list-style-type: none"> 1. Hyd. Fluid Low 2. Leaks in line ROU 3. Faulty relief valve 5. Faulty cylinder | <ol style="list-style-type: none"> 1. Check and refill hyd fluid 2. Tighten or replace fittings and hoses 3. Check pressure in line. Line pressure in control valve should be at least 2500 P.S.I. 5. Inspect, repair or replace cylinder |
| Mower will not start or run | <ol style="list-style-type: none"> 1. Blown fuse 2. Ball valves closed 3. Low oil level 4. Line leak 5. Electronic solenoid faulty | <ol style="list-style-type: none"> 1. Check fuse between mower switch and ignition/replace 2. Make sure valves are open 3. Check hyd. tank and fill 4. Check all fittings and lines, re-tighten or replace 5a. Without the tractor running, turn the mower switch to on. A low audible click should be heard if the solenoid is engaging the solenoid spool. If click is not heard, leave switch in on position and with a screwdriver or other steel object, touch the small nut on the end of the solenoid. If the metallic object is not attracted to the nut, check the fuse and wiring for an open circuit. If the object is attracted but no "click" is heard, replace the solenoid. 5b. Remove the four bolts holding the small block to the main block. Lift and remove small block being careful not to damage O-rings/filter. Clean filter and re-install. 5c. Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches. Clean parts or replace if scratched. |

MAINTENANCE

MAINTENANCE

TROUBLESHOOTING (CONTINUED)

MAINTENANCE

| SYMPTOMS | CAUSE | REMEDY |
|--|--|---|
| Motor runs but will not cut. | <ol style="list-style-type: none"> 1. Belts 2. Tensioner | <ol style="list-style-type: none"> 1. Inspect belts and pulleys. Replace belts and repair as needed. 2. Adjust tensioner nut flatwasher washer is flush with top of guide. |
| Mower turns slowly or not at all. | <ol style="list-style-type: none"> 1. Contaminants restricting spool movement in valve body. 2. Suction lines obstructed 3. Low oil level | <ol style="list-style-type: none"> 1. Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches. Clean parts or replace if scratched. 2. Check for kinks or obstruction in suction hose. 3. Check hyd. tank level and fill. |
| Pump will not work | <ol style="list-style-type: none"> 1. Excessive wear on internal parts | <ol style="list-style-type: none"> 1. Disassemble and repair. |
| Motor will not work | <ol style="list-style-type: none"> 1. Excessive wear on internal parts | <ol style="list-style-type: none"> 1. Disassemble and repair. |

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

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

MAINTENANCE

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| Torque for Standard Fasteners | | | | | | | | | | | | | |
|-------------------------------|------------------|-------------------|------------|-----------|-------------------|------------|------------|-------------------|------------|------------|-------------------|------------|------------|
| Nominal Dia.
(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 | 38 ft-lbs | 43 ft-lbs | 51 ft-lbs |
| 7/16 | 14 | 24 | 29 | 32 | 37 | 42 | 49 | 52 | 59 | 70 | 61 | 70 | 82 |
| 1/2 | 13 | 37 | 44 | 49 | 57 | 64 | 75 | 80 | 90 | 106 | 94 | 106 | 125 |
| 9/16 | 12 | 53 | 63 | 70 | 82 | 92 | 109 | 115 | 130 | 154 | 135 | 153 | 180 |
| 5/8 | 11 | 73 | 87 | 97 | 113 | 128 | 150 | 159 | 180 | 212 | 186 | 211 | 248 |
| 3/4 | 10 | 129 | 155 | 172 | 200 | 227 | 267 | 282 | 320 | 376 | 331 | 375 | 441 |
| 7/8 | 9 | 125 | 150 | 167 | 322 | 365 | 429 | 455 | 515 | 606 | 533 | 604 | 710 |
| 1 | 8 | 187 | 225 | 250 | 483 | 547 | 644 | 681 | 772 | 909 | 799 | 905 | 1065 |
| 1 1/8 | 7 | 266 | 319 | 354 | 596 | 675 | 794 | 836 | 966 | 1288 | 1132 | 1283 | 1510 |
| 1 1/4 | 7 | 375 | 450 | 500 | 840 | 952 | 1121 | 1173 | 1363 | 1817 | 1597 | 1810 | 2130 |
| 1 1/2 | 6 | 652 | 783 | 869 | 1462 | 1657 | 1950 | 2031 | 2371 | 2688 | 2317 | 2779 | 3150 |
| Fine Thread Series | | | | | | | | | | | | | |
| 1/4 | 28 | 56 in-lbs | 68 in-lbs | 75 in-lbs | 87 in-lbs | 99 in-lbs | 116 in-lbs | 123 in-lbs | 139 in-lbs | 164 in-lbs | 144 in-lbs | 163 in-lbs | 192 in-lbs |
| 5/16 | 24 | 112 | 135 | 150 | 174 | 197 | 231 | 245 | 278 | 327 | 287 | 325 | 383 |
| 3/8 | 24 | 17 ft-lbs | 20 ft-lbs | 23 ft-lbs | 26 ft-lbs | 30 ft-lbs | 35 ft-lbs | 37 ft-lbs | 42 ft-lbs | 49 ft-lbs | 43 ft-lbs | 49 ft-lbs | 58 ft-lbs |
| 7/16 | 20 | 27 | 32 | 36 | 41 | 47 | 55 | 58 | 66 | 78 | 68 | 78 | 91 |
| 1/2 | 20 | 41 | 49 | 55 | 64 | 72 | 85 | 90 | 102 | 120 | 105 | 120 | 141 |
| 9/16 | 18 | 59 | 71 | 78 | 91 | 103 | 121 | 128 | 146 | 171 | 151 | 171 | 201 |
| 5/8 | 18 | 82 | 99 | 110 | 127 | 144 | 170 | 180 | 204 | 240 | 211 | 239 | 281 |
| 3/4 | 16 | 144 | 173 | 192 | 223 | 253 | 297 | 315 | 357 | 420 | 369 | 418 | 492 |
| 7/8 | 14 | 138 | 165 | 184 | 355 | 403 | 474 | 502 | 568 | 669 | 588 | 666 | 784 |
| 1 | 14 | 210 | 252 | 280 | 542 | 614 | 722 | 765 | 867 | 1020 | 896 | 1016 | 1195 |
| 1 1/8 | 12 | 298 | 357 | 397 | 668 | 757 | 890 | 1083 | 1227 | 1444 | 1269 | 1439 | 1693 |
| 1 1/4 | 12 | 415 | 498 | 553 | 930 | 1055 | 1241 | 1509 | 1710 | 2012 | 1768 | 2004 | 2358 |
| 1 1/2 | 12 | 734 | 880 | 978 | 1645 | 1865 | 2194 | 2668 | 3024 | 3557 | 3127 | 3544 | 4169 |

Torque values for 1/4 and 5/16-in series are in inch-pounds. All other torque values are in foot-pounds. K = 0.15 for "lubricated" conditions D = Nominal Diameter
 Torque values calculated from formula T=KDF, where K = 0.17 for zinc plated and dry conditions F = Clamp Load
 K = 0.20 for plain and dry conditions

| Torque-Tension Relationship for Metric Fasteners | | | | | | | | | | | | | |
|--|-------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|-------------------|------------|-----------|
| Nominal Dia.
(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 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 = 0.20 | |
| 3 | 0.5 | 0.28 | 0.32 | 0.38 | 0.73 | 0.82 | 0.97 | 1.0 | 1.2 | 1.4 | 1.2 | 1.6 | |
| 3.5 | 0.6 | 0.44 | 0.50 | 0.59 | 1.1 | 1.3 | 1.5 | 1.6 | 1.9 | 2.2 | 1.9 | 2.5 | |
| 4 | 0.7 | 0.66 | 0.74 | 0.87 | 1.7 | 1.9 | 2.3 | 2.4 | 2.7 | 3.2 | 2.8 | 3.8 | |
| 5 | 0.8 | 1.3 | 1.5 | 1.8 | 3.4 | 3.9 | 4.5 | 4.9 | 5.5 | 6.5 | 5.7 | 7.6 | |
| 6 | 1 | 2.3 | 2.6 | 3.0 | 5.8 | 6.6 | 7.7 | 8.3 | 9.4 | 11 | 9.7 | 13 | |
| 6 | 1.25 | 2.1 | 2.3 | 2.7 | 5.3 | 6.0 | 7.0 | 7.6 | 8.6 | 10 | 8.8 | 12 | |
| 7 | 1 | 3.8 | 4.3 | 5.0 | 9.7 | 11 | 13 | 14 | 16 | 19 | 16 | 22 | |
| 8 | 1 | 5.9 | 6.6 | 7.8 | 15 | 17 | 20 | 22 | 24 | 29 | 25 | 34 | |
| 8 | 1.25 | 5.5 | 6.2 | 7.3 | 14 | 16 | 19 | 20 | 23 | 27 | 24 | 31 | |
| 10 | 1.25 | 11 | 13 | 15 | 29 | 33 | 39 | 42 | 48 | 56 | 49 | 66 | |
| 10 | 1.5 | 11 | 12 | 14 | 28 | 32 | 37 | 40 | 45 | 53 | 47 | 62 | |
| 12 | 1.25 | 21 | 23 | 28 | 53 | 60 | 71 | 76 | 86 | 101 | 89 | 119 | |
| 12 | 1.5 | 20 | 22 | 26 | 51 | 58 | 68 | 73 | 82 | 97 | 85 | 113 | |
| 12 | 1.75 | 19 | 21 | 25 | 49 | 55 | 65 | 70 | 79 | 93 | 81 | 108 | |
| 14 | 1.25 | 26 | 29 | 34 | 66 | 75 | 89 | 95 | 108 | 127 | 111 | 148 | |
| 14 | 1.5 | 28 | 32 | 37 | 72 | 82 | 96 | 103 | 117 | 138 | 121 | 161 | |
| 14 | 2 | 30 | 34 | 40 | 78 | 88 | 104 | 111 | 126 | 148 | 130 | 173 | |
| 16 | 1.5 | 50 | 57 | 67 | 129 | 146 | 171 | 184 | 208 | 245 | 215 | 287 | |
| 16 | 2 | 47 | 53 | 62 | 121 | 137 | 161 | 173 | 196 | 230 | 202 | 269 | |
| 18 | 1.5 | 73 | 82 | 97 | 187 | 212 | 249 | 268 | 303 | 357 | 313 | 417 | |
| 18 | 2.5 | 65 | 73 | 86 | 167 | 189 | 222 | 239 | 270 | 318 | 279 | 372 | |
| 20 | 1.5 | 101 | 115 | 135 | 270 | 306 | 360 | 374 | 424 | 498 | 437 | 583 | |
| 20 | 2.5 | 91 | 104 | 122 | 236 | 267 | 314 | 337 | 382 | 449 | 394 | 525 | |

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

MAINTENANCE

LUBRICATION RECOMMENDATIONS

MAINTENANCE

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

Boom

Maintenance Section 4-9

MAINTENANCE

MAINTENANCE

POLYCARBONATE CARE AND MAINTENANCE

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

CLEANING THE SUPERCOAT HARD-COAT

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

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

Aqueous Solutions of Soaps and Detergents

| | | | |
|--------------|----------------|---------------|-------------|
| Windex(1) | Top Job(2) | Joy(2) | Mr Clean(2) |
| Fantastik(3) | Formula 409(4) | Sumalight D12 | Brucodecid |

Organic Solvents

| | | | |
|------------------|------------|-----------------|---------------------|
| Butyl Cellosolve | Kerosene | Hexel, F.O. 554 | Naphtha(VM&P grade) |
| Neleco-Placer | Turco 5042 | | |

Alcohols

| | |
|----------|-----------|
| Methanol | Isopropyl |
|----------|-----------|

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

GRAFFITI REMOVAL

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

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

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

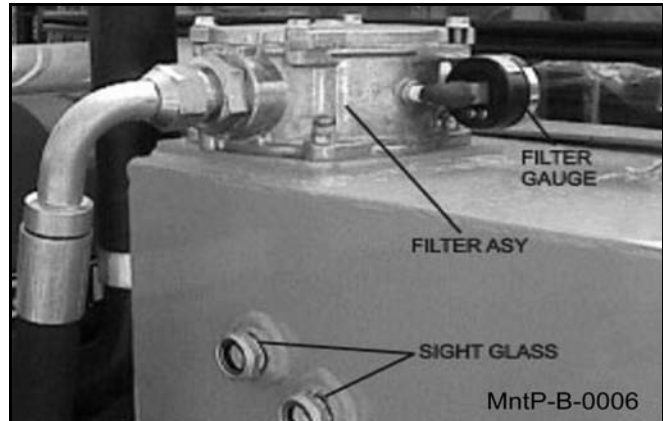
MAINTENANCE

MAINTENANCE

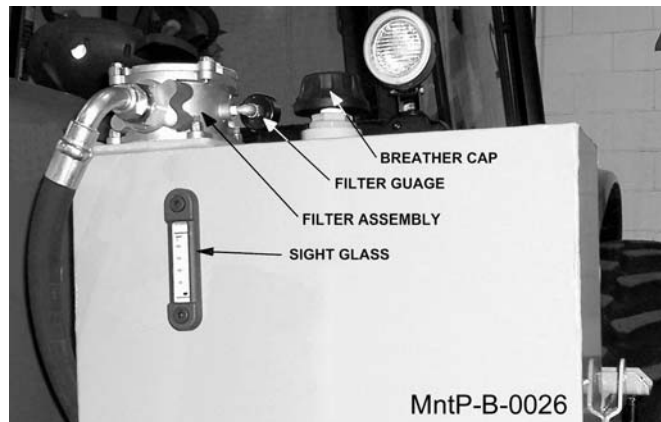
RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVOIRS

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

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



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



DETAILED MAINTENANCE

REPLACING IN-TANK HYDRAULIC FILTER:

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



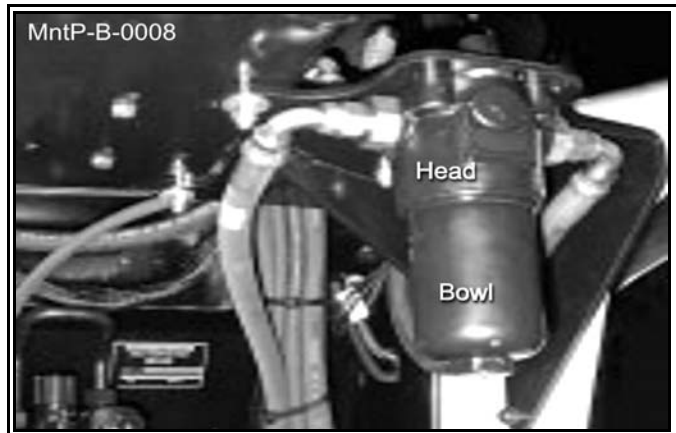
MAINTENANCE

MAINTENANCE

DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

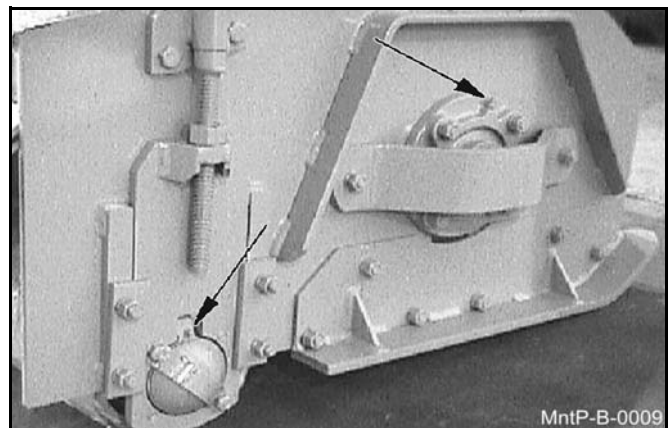
Ensure that the system has been shut down and de-pressurized. Locate High Pressure Filter housing. Confirm that the element that is about to be installed matches the element p/n on the filter model tag. *Example: V3.0510-06 (world line 100, HD049 model)* Locate the bottom of the High Pressure Bowl. Using the appropriate spanner wrench or ratchet, turn in a counter clockwise rotation, (looking at the bottom of the bowl) to remove the bowl from the head. The first couple of rotations will seem tight as the o-ring passes the sealing flats. Once the o-ring has cleared the sealing flats the bowl should spin freely. Taking care not to drop the bowl, finish removing the bowl from the head. **WARNING: bowl will be full of oil!**



Pour the oil from the bowl into a container. This oil should be considered contaminated because the flow direction through the element is outside-in. Clean the inside of the bowl if "dirt" is present. Remove the old element from the filter head by pulling with a rotation motion. Dispose of the used element properly. Remove the new element from the packaging. Using your finger, dab and lubricate the o-ring in the top of the new element with oil. Install the new element into and on the mounting boss within the head. Ensure that the element is fully seated on the boss. Clean and inspect the o-ring that is affixed in the bowl and lubricate with oil. Using a clockwise rotation, screw the bowl back into the head, ensuring that the bowl has not been cross threaded into the head. Continue to tighten the bowl into the head, using the spanner wrench or ratchet. The rotation of the bowl will become tighter once the o-ring engages the sealing flats. Once the bowl has bottomed out, back-off the bowl by 1/6 turn. This ensures that the o-ring is seated properly within the sealing flats. Element change out and re-assembly is now complete. Start the machine and inspect the filter area, checking that there is no oil leaking from the filter assembly. Replace the filter element first at 50 hours of operation, then yearly (500 hours) or when indicated by restriction indicator.

GREASING CUTTERSHAFT -- FLAIL MOWERS

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

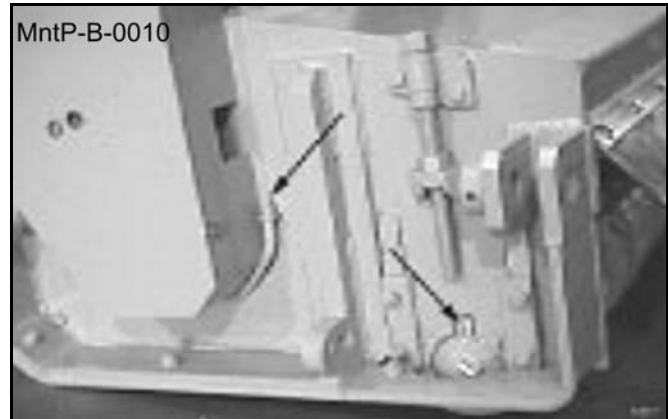


MAINTENANCE

MAINTENANCE

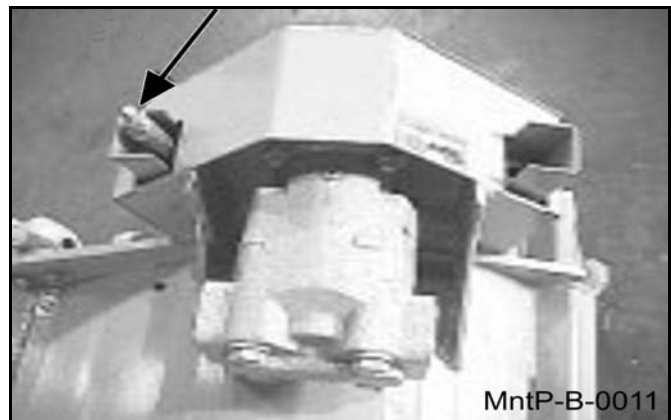
GREASING GROUND ROLLER SHAFT-- FLAIL

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



ADJUSTING/CHECKING BELT TENSION

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

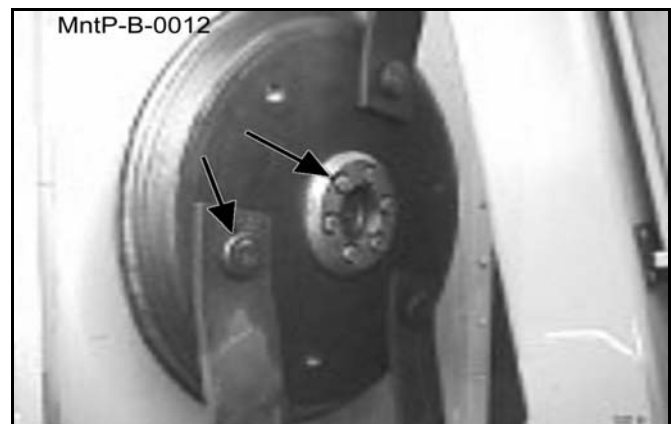


TIGHTENING KNIFE BOLTS AND DISK BOLTS:

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

Knife mounting bolts torque to 800 lubricated ft. lbs.

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

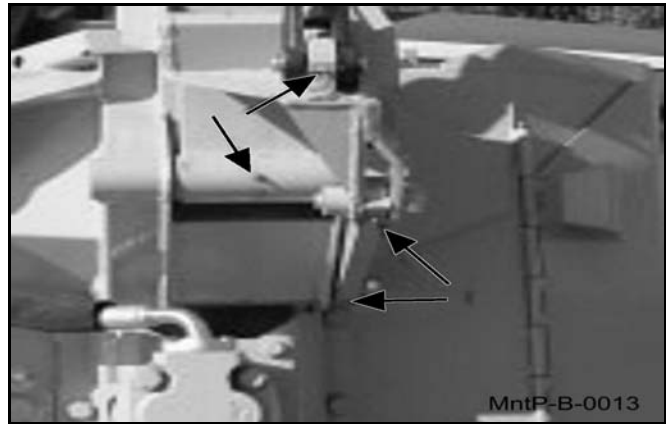


MAINTENANCE

MAINTENANCE

GREASING POINTS ON BOOM AND PIVOT

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



DECK STOP ADJUSTMENT

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



GREASING SPINDLE

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

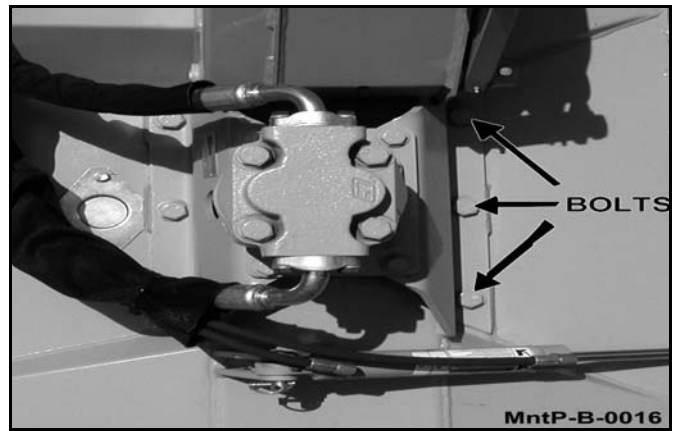


MAINTENANCE

MAINTENANCE

TIGHTENING SPINDLE BOLTS

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



GREASING PUMP DRIVE SHAFT COUPLER

With engine stopped, ensure driveshaft alignment by grasping coupler and sliding back and forth. Coupler should slide freely with approximately 1/8" of end play. If coupler does not slide freely, inspect for loose pump mount bolts, or damaged or loose crankshaft adapter. Inject Lithium-Complex Extreme Pressure grease conforming to NLG12-ISO 320 specifications into coupler until grease begins to protrude from ends. Grease daily or every 8 hours. Do not over grease.

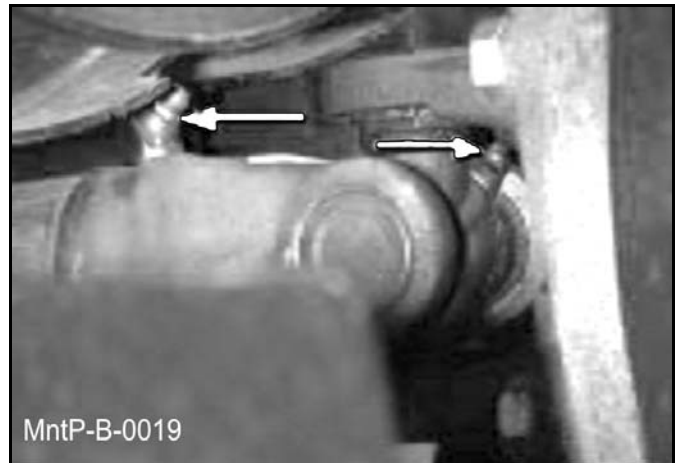
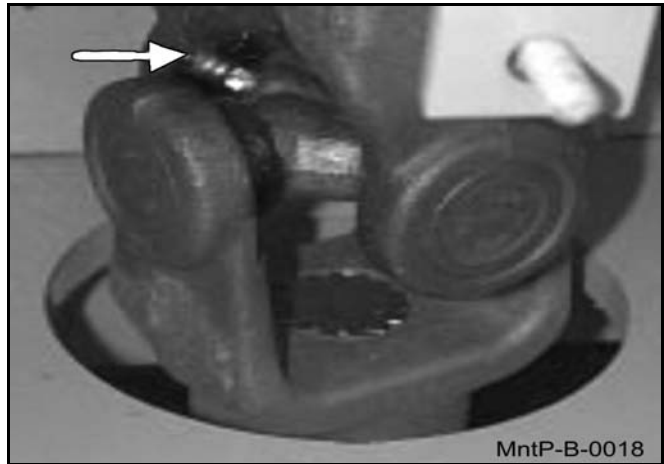


MAINTENANCE

MAINTENANCE

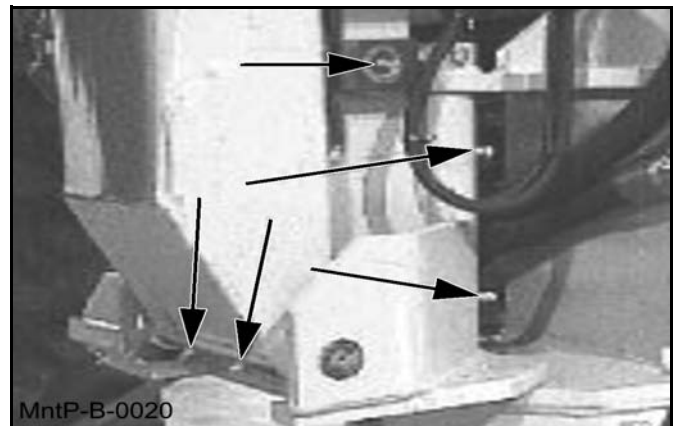
DRIVESHAFT YOKE, U-JOINT STUB SHAFT

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



GREASING THE BOOM SWIVEL

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

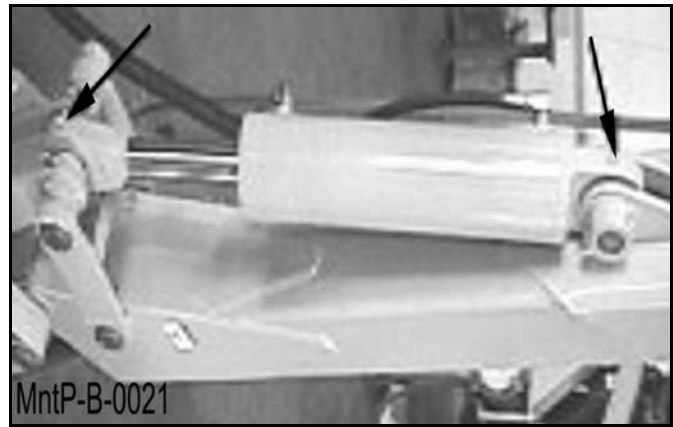


MAINTENANCE

MAINTENANCE

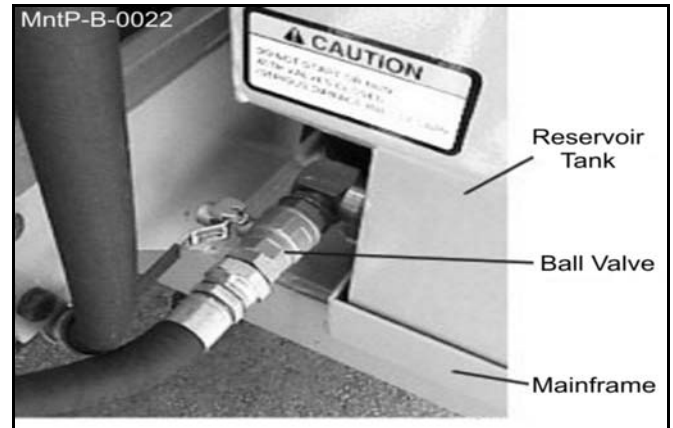
GREASING BOOM CYLINDER(S) PIVOT POINTS

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



BALL VALVES

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



MAINTENANCE

MAINTENANCE

Blades

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

CAUTION

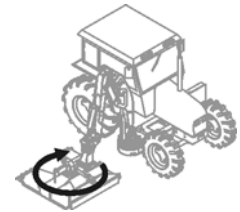
Blades should always be replaced in pairs. Blades of different weights can cause serious imbalance and damage to the machine and personnel. When replacing blades, take care to replace the blade bolts, nuts, and washers.


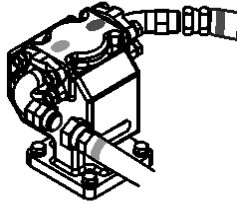
Important

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

WARNING

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



| WARNING | ADVERTENCIA |
|---|--|
| TO AVOID SERIOUS INJURY AND DEATH FROM THROWN OBJECTS: <ul style="list-style-type: none">● MAKE CERTAIN blades rotate the correct direction. | PARA EVITAR LESION SERIA O MUERTE POR OBJETOS LANZADOS: <ul style="list-style-type: none">● ASEGURE que las cuchillas giran en la dirección correcta. |
| BLADE ROTATION

ROTACIÓN DE CUCHILLAS | |
| Return
Retorno
BLUE | 
Pressure
Presión
RED |

D619

MAINTENANCE

ROTARY KNIFE REPLACEMENT

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



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

REPLACEMENT OF ROTARY DISK/BLADE BAR



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

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

MAINTENANCE

Flail Blades Inspection

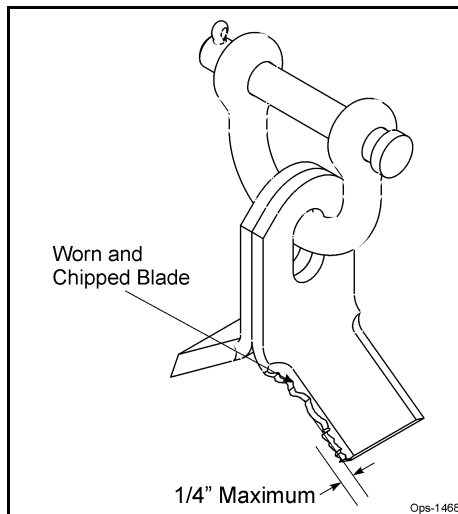


Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

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

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

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



Always replace blades in sets

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

MAINTENANCE

Blade Pins and D-Ring Inspection

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

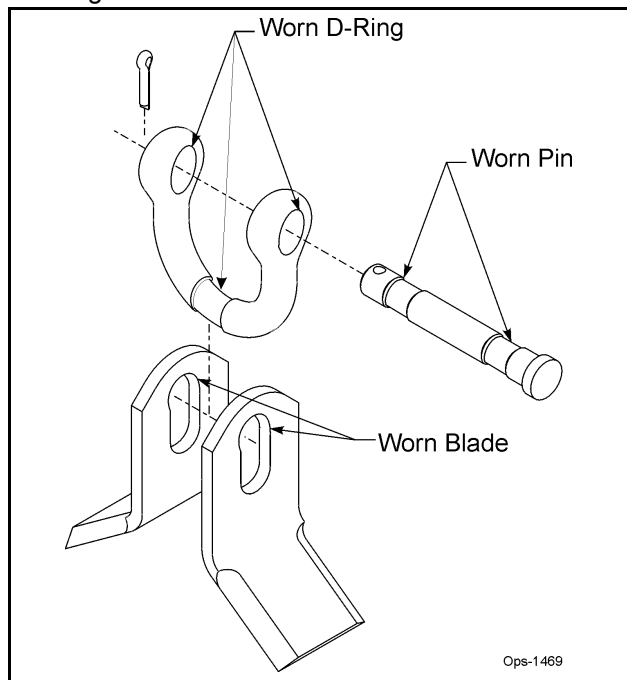


Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

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

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

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



Important

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

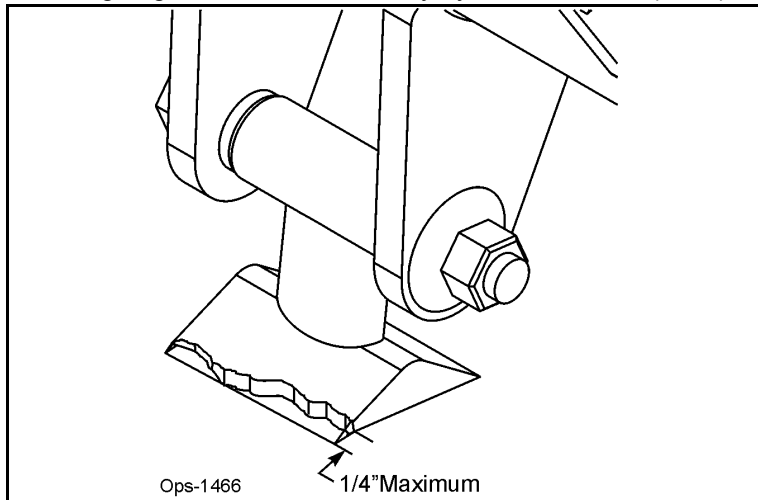
MAINTENANCE

Flail Axe Blades Inspection



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

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



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

Always replace blades in sets

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

Important

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



Never attempt to sharpen blades. OPS-U-0042

MAINTENANCE

Flail Axe Blade Bolt Inspection

Inspect Blade Bolts daily for wear or damage as follows:

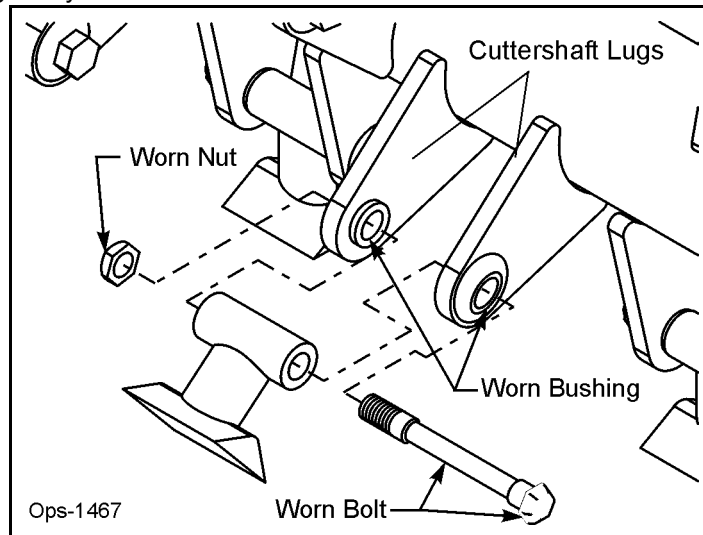


Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

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

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

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



MAINTENANCE

50" FLAIL KNIFE BLADE REPLACEMENT

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



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

63" BOOM FLAIL KNIFE REPLACEMENT

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



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



Knives should not be welded on for any reason.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

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

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

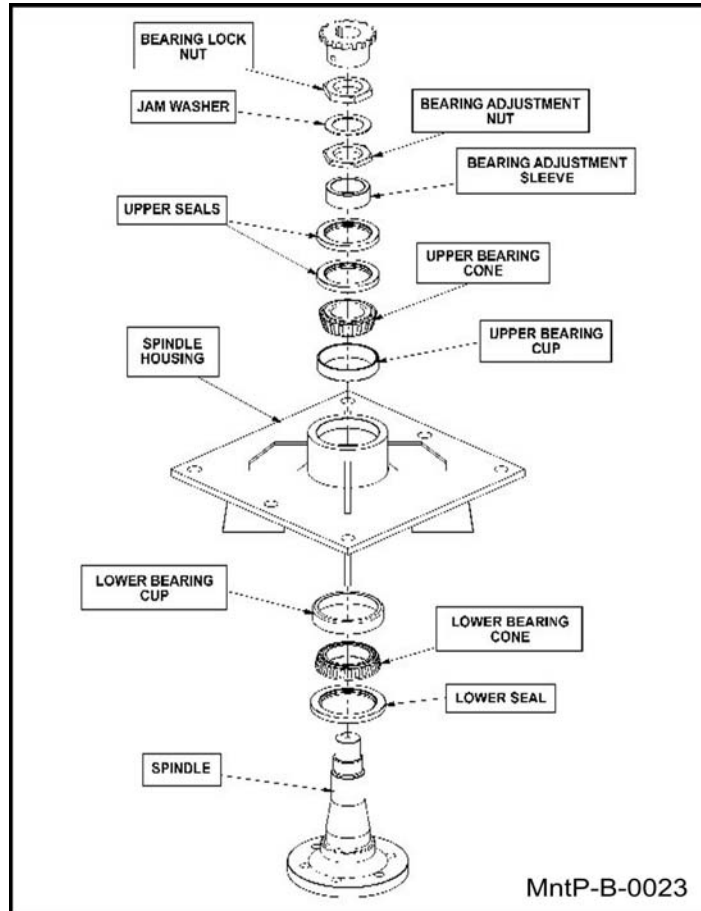
Be sure to wear eye protection and other protective equipment as needed when working on spindle assembly.

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MAINTENANCE

THE SPINDLE ASSEMBLY

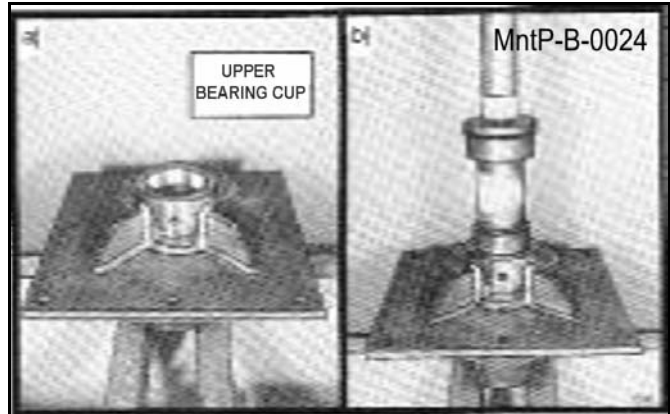
See the diagram below for identification of spindle parts, while servicing.



MAINTENANCE

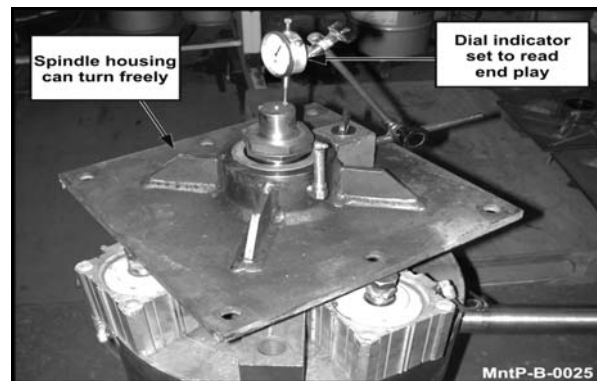
BEARING INSTALLATION

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



BEARING ADJUSTMENT

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



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

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

MAINTENANCE

Boom Cylinder Removal and Replacement Instructions

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

MAINTENANCE

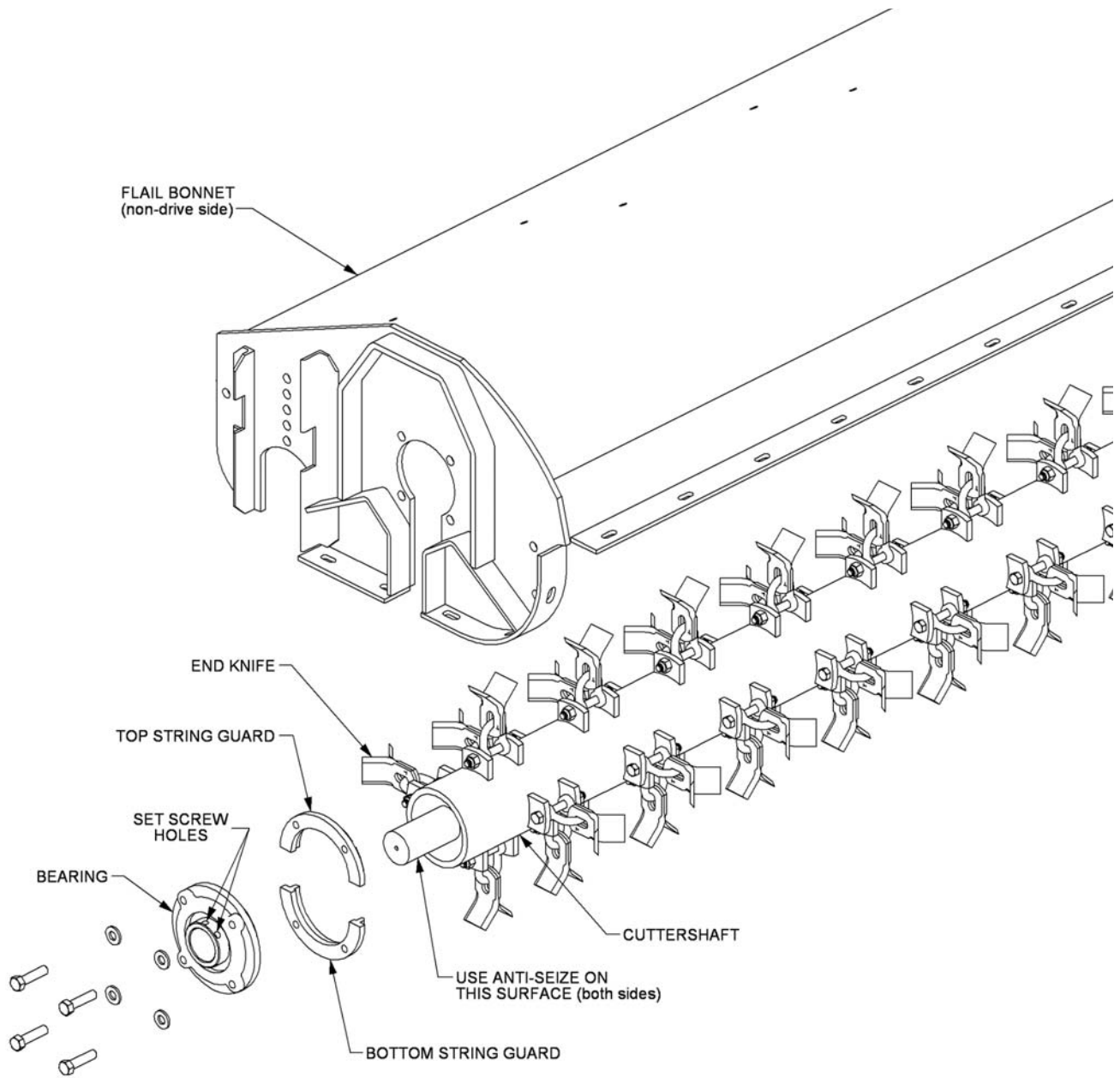
CUTTERSHAFT BEARING REPLACEMENT

1. Remove existing cuttershaft, bearings and string guards.
2. Make sure that the end knives on each end of the cuttershaft are oriented as shown.
3. Apply anti-seize on cuttershaft as shown on next page.
4. Install non-drive side bearing first.
5. Install the top of the string guard on the non-drive side first. Use Loctite 271 or equivalent and torque (95 ft-lb or 104ft-lb if you use an extension).
6. Install the bearing and top string guard on the drive side.
7. Center the cuttershaft between the string guards. Use Loctite 271 or equivalent and torque (95ft-lb or 104ft-lb if you use an extension) the top string guard on the drive side.
8. Install, use Loctite 271 or equivalent, and torque (95ft-lb or 104ft-lb if you use an extension) the bottom string guard on both sides.
9. Make sure the cuttershaft is centered. On the non-drive side, tighten one set screw in the bearing onto the cuttershaft.
10. Remove the other set screw and drill a 5/16" hole into the cuttershaft 3/16" deep through the hole in the bearing. BE CAREFUL NOT TO DAMAGE THE THREADS IN THE BEARING HOLE.
11. Replace the set screw in the bearing, use Loctite 271 or equivalent, and tighten onto the cuttershaft through the new hole.
12. Remove the other set screw and repeat the drilling procedure (Step 10). Replace the set screw as stated in Step 11.
13. Repeat steps 9 through 12 on the drive side.
14. Grease both bearings properly.

See illustration on next page

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MAINTENANCE

DAILY MAINTENANCE SCHEDULE

The following services should be performed daily or every 8 hours of service, following the detailed maintenance instructions in the operator's manual.

_____ Pump driveshaft: If required with drive shaft/coupler check for end play and lubricate at zerks.

_____ Crankshaft adapter: If equipped with rubber grommets check condition, replace if missing or damaged.

_____ Pivot points: Inject grease until it appears at ends.

_____ Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or replace hoses immediately.

_____ Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.

_____ Belts: Check/tighten/replace belts as needed.

_____ Mainframe/deck: Unless otherwise specified retorque bolts according to torque specifications in this section.

_____ Hydraulic fluid level: Add, if required, per fluid recommendations.

_____ Rear flail drive, bearing flange and shaft couplers: Grease as instructed in the detailed maintenance section.

_____ Cuttershaft and ground roller: Grease as instructed in the detailed maintenance section.

Service performed by: _____ Date: ___/___/___ Hour

Meter: _____

Maintenance Section

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

PARTS SECTION

PART NAME INDEX

| | |
|--|----|
| RCTVUQTF GT&I 'I W&G | 5 |
| VTCEVQT'O QWP V'MK | 6 |
| VTCEVQT'O QWP V'MK/'J [FTCWN&E U | 8 |
| DQO 'O QWP V'MK/'RCP VJ GT | : |
| DQO TGU.V.'UR I NG'EQNWO P | 32 |
| 6"URQN'ECDNG'EQP VTQN'O QWP V | 34 |
| ECDNG*'O CP WCN+'N&H'XCNXG/'6"URQN | 36 |
| 7"URQN'ECDNG'EQP VTQN'O QWP V | 38 |
| ECDNG*'O CP WCN+'N&H'XCNXG/'7"URQN | 3: |
| LQ[UV&M'CP F 'UY &EJ DQZ 'O QWP V | 42 |
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| Y J GGN'Y GK J V/'ECUV'F KUJ | 65 |
| P QVGU'3 | 66 |

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.

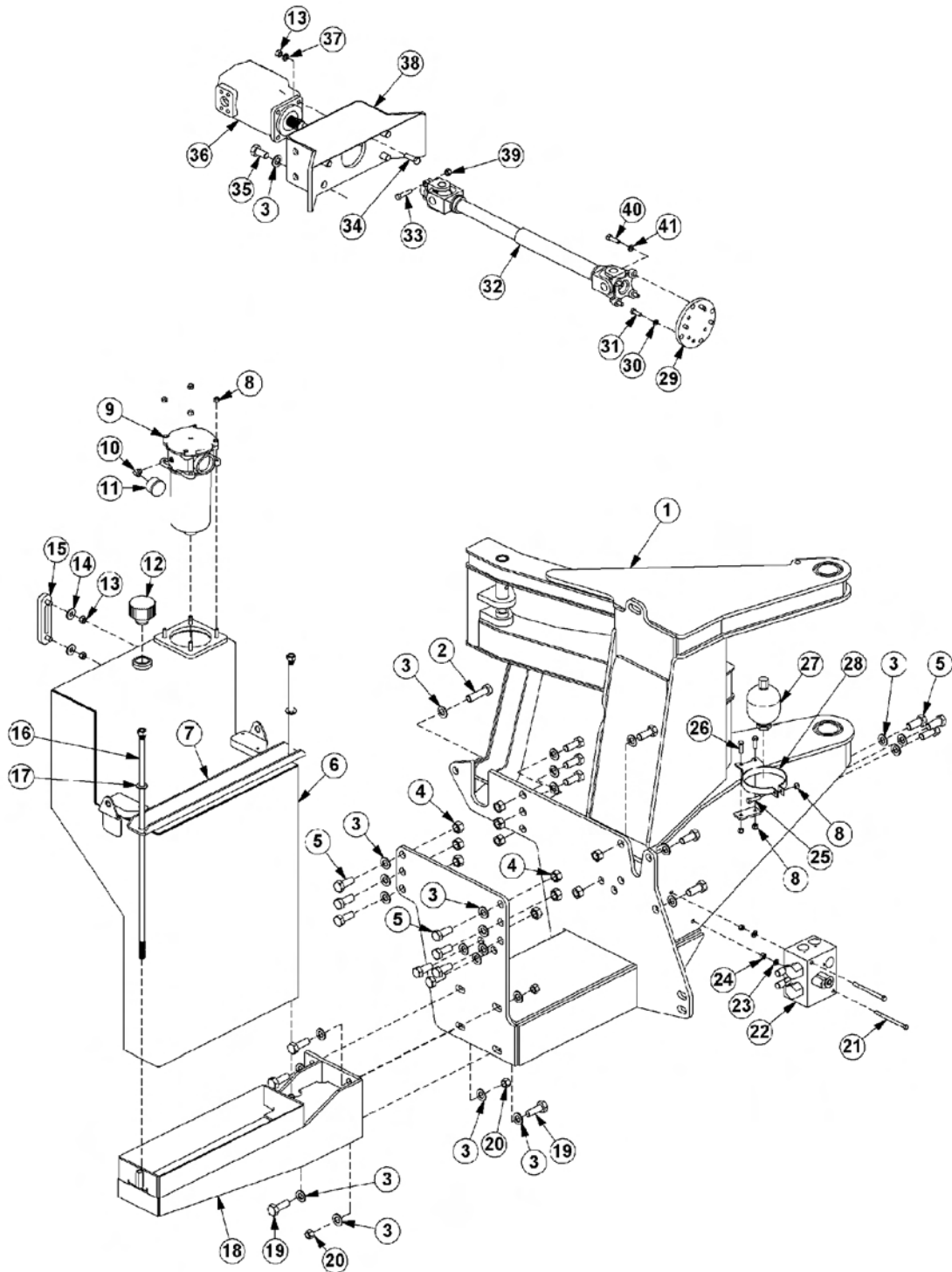


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

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



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 06300141 | 1 | MAIN FRAME,PANTHER |
| 2 | 32285 | 1 | CAPSCREW,20MM X 75MM,2.5P |

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TRACTOR MOUNT KIT

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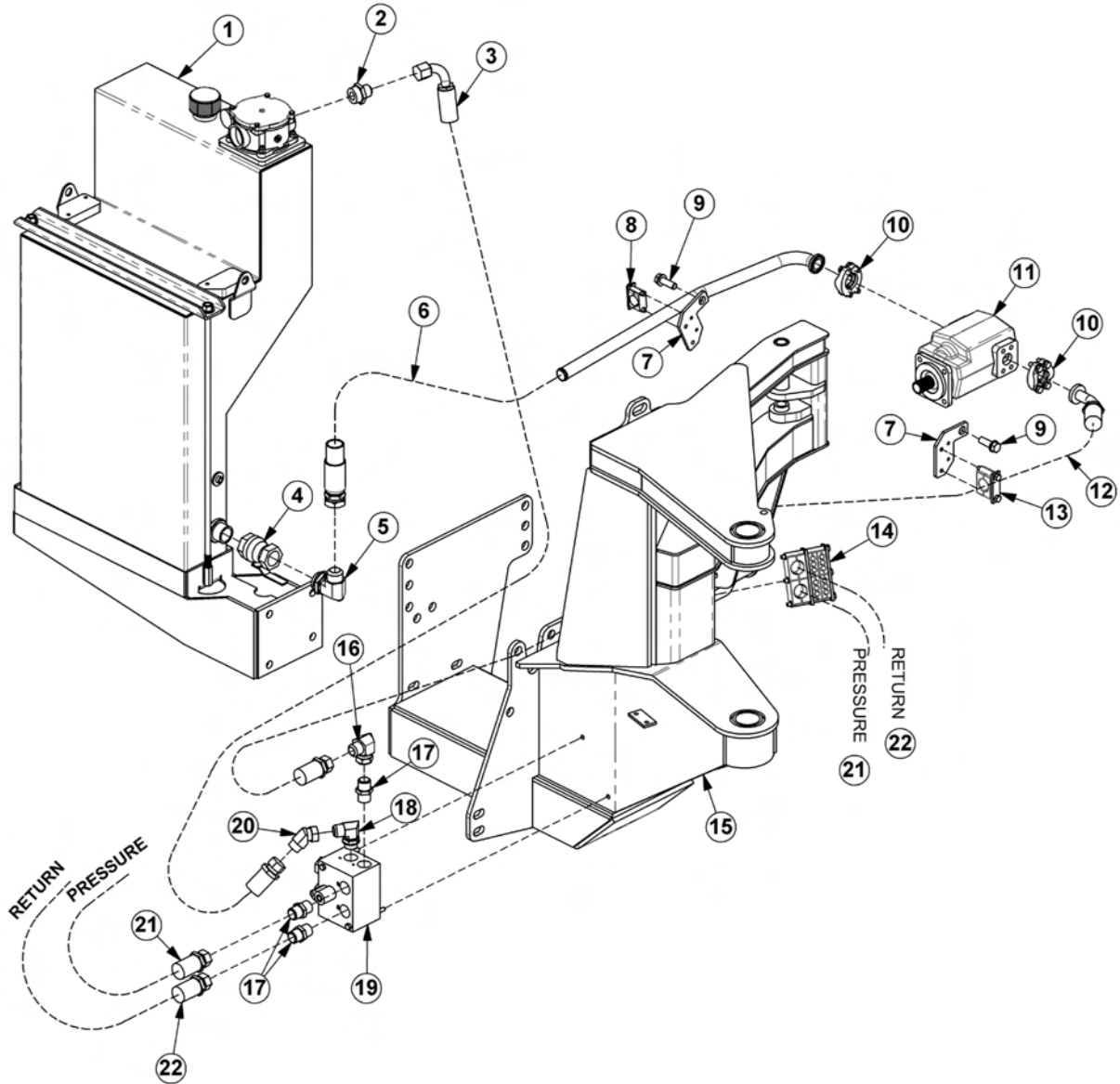
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------|
| 3 | 33880 | 30 | FLATWASHER,3/4",SAE |
| 4 | 31722 | 11 | HEX NUT,20MM,2.5P,FLNG |
| 5 | 31731 | 17 | CAPSCREW,20MM X 50MM,2.5P |
| 6 | 06700090 | 1 | TANK,RESERVOIR,ASSY |
| --- | 06380012 | 1 | TANK,RES |
| 7 | 06410352 | 1 | CHANNEL,TANK MNT |
| 8 | 21627 | 7 | NYLOCK NUT,3/8",NC |
| 9 | 06505044 | 1 | FILTER |
| 10 | TF4888 | 1 | STREET ELBOW,1/8" |
| 11 | 6T0649 | 1 | FILTER GAGE |
| 12 | 06505077 | 1 | CAP,BREATHER |
| 13 | 21725 | 6 | HEX NUT,1/2",NC |
| 14 | 22018 | 2 | FLATWASHER,1/2",WIDE |
| 15 | 06505067 | 1 | SIGHT GAGE |
| 16 | 06380014 | 2 | TIE BOLT,TANK |
| 17 | 33764 | 2 | FLATWASHER,5/8",SAE |
| 18 | 06300060 | 1 | MOUNT,TANK |
| 19 | 21833 | 4 | CAPSCREW,3/4" X 2-1/4",NC |
| 20 | 21825 | 4 | HEX NUT,3/4",NC |
| 21 | 21644 | 2 | CAPSCREW,3/8" X 5",NC |
| 22 | 06510083 | 1 | BRAKE VALVE |
| 23 | 21988 | 2 | LOCKWASHER,3/8" |
| 24 | 21625 | 2 | HEX NUT,3/8",NC |
| 25 | 21632 | 1 | CAPSCREW,3/8" X 1-1/2",NC |
| 26 | 21631 | 2 | CAPSCREW,3/8" X 1-1/4",NC |
| 27 | 24300 | 1 | ACCUMULATOR |
| 28 | 23888 | 1 | BRACKET,ACCUMULATOR |
| 29 | 34998 | 1 | SPACER,DRIVESHAFT |
| 30 | 32691 | 4 | LOCKWASHER,10MM |
| 31 | 23113 | 4 | CAPSCREW,10MM X 30MM,1.5P |
| 32 | 34999 | 1 | DRIVESHAFT,U-JOINT |
| 33 | 21658 | 1 | CAPSCREW,7/16" X 2",NF |
| 34 | 21732 | 4 | CAPSCREW,1/2" X 1-3/4",NC |
| 35 | 24860 | 4 | CAPSCREW,20MM X 40MM,2.5P |
| 36 | 23152 | 1 | PUMP |
| 37 | 21990 | 4 | LOCKWASHER,1/2" |
| 38 | 34993 | 1 | MOUNT,PUMP |
| 39 | 34848 | 1 | HEX NUT,7/16",NF,STOVER |
| 40 | 21680 | 4 | CAPSCREW,7/16" X 1-1/4",NC |
| 41 | 21989 | 4 | LOCKWASHER,7/16" |

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TRACTOR MOUNT KIT - HYDRAULICS

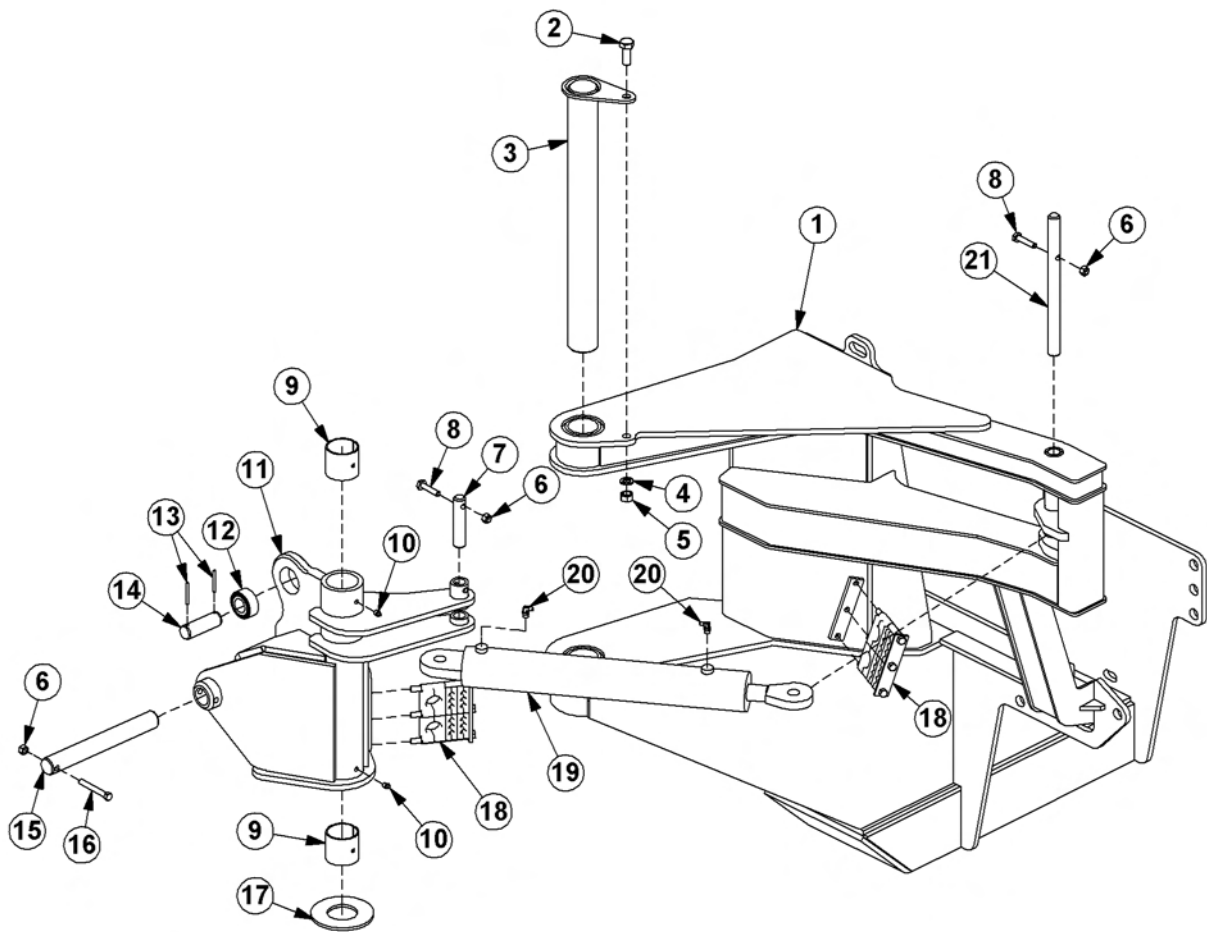


TRACTOR MOUNT KIT - HYDRAULICS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | ----- | - | HYD TANK *REFER TO TRACTOR MNT KIT PAGE |
| 2 | 34064 | 1 | ADAPTER,1-1/4"MOR X 1"MJ |
| 3 | 34383 | 1 | HOSE,1" X 100" |
| 4 | 34309 | 1 | BALL VALVE |
| 5 | 06503054 | 1 | ELBOW,1-1/2"MOR X 1-1/4"MJ |
| 6 | 06500288 | 1 | HOSE/TUBE,1-1/4" X 70" |
| 7 | 34626 | 2 | BRACKET,CLAMP |
| 8 | 34075 | 1 | CLAMP,TUBE |
| 9 | ----- | - | *EXISTING TRACTOR HARDWARE |
| 10 | TF4852 | 2 | FLANGE KIT,1-1/4" |
| 11 | ----- | - | PUMP *REFER TO TRACTOR MNT KIT PAGE |
| 12 | 06500557 | 1 | HOSE,1" X 97" |
| 13 | 06505017 | 1 | CLAMP,HOSE |
| 14 | 06505085 | 1 | CLAMP,HOSE |
| 15 | ----- | - | MAIN FRAME *REFER TO TRACTOR MNT KIT PAGE |
| 16 | 33259 | 1 | ELBOW,1"MJ X 1"FJX |
| 17 | 33555 | 3 | ADAPTER,1"MOR X 1"MJ |
| 18 | 34117 | 1 | ELBOW,1"MOR X 1"MJ |
| 19 | ----- | - | BRAKE VALVE *REFER TO TRACTOR MNT KIT PAGE |
| 20 | 24724 | 1 | SWIVEL,1"MJ X 1"FJX,45° |
| 21 | 06500558 | 1 | HOSE,1" X 134" |
| 22 | 06500559 | 1 | HOSE,1" X 140" |

BOOM MOUNT KIT - PANTHER

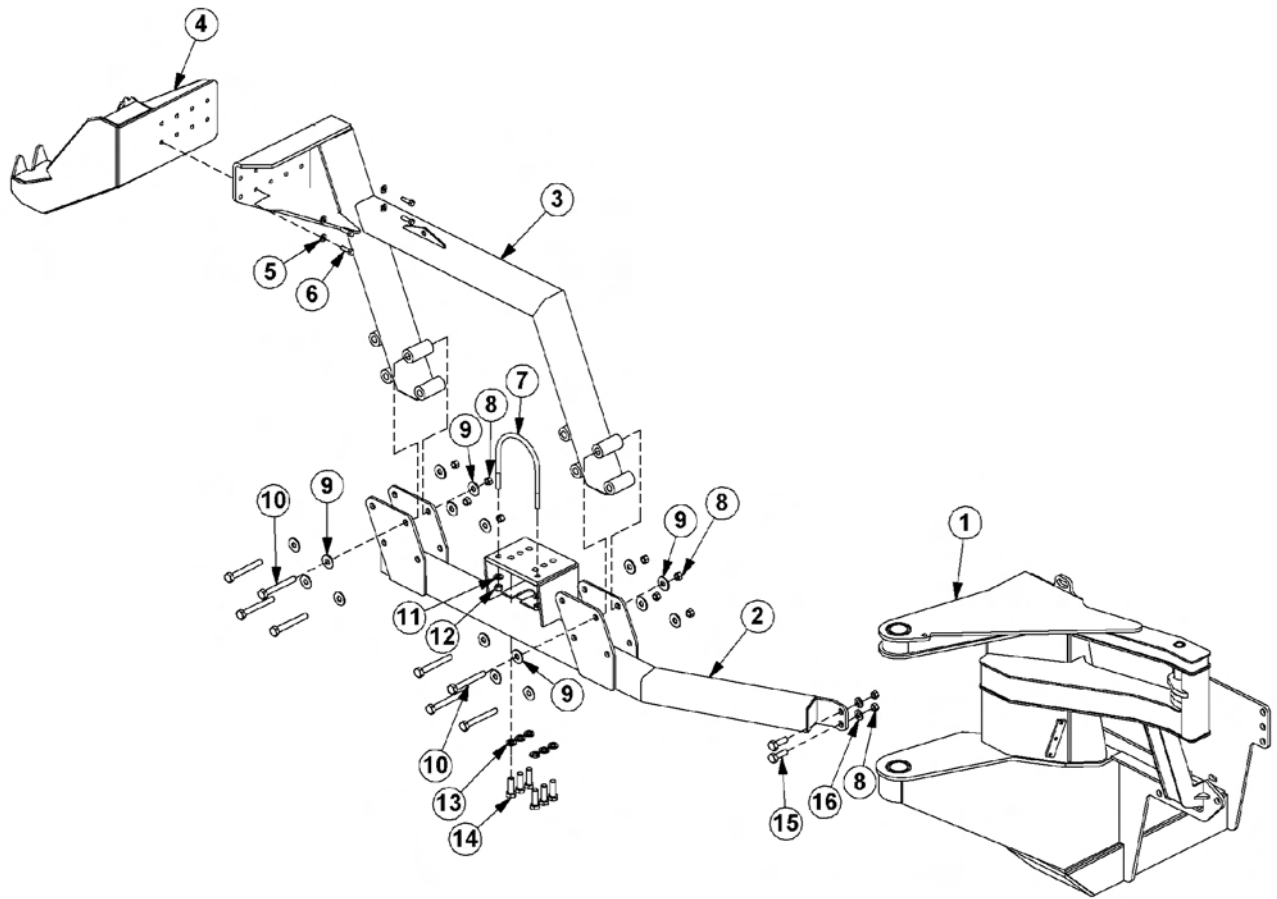


BOOM MOUNT KIT - PANTHER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | MAIN FRAME *REFER TO TRACTOR MNT KIT PAGE |
| 2 | 21782 | 1 | CAPSCREW,5/8" X 1-3/4",NC |
| 3 | 32381 | 1 | PIN,2-1/2" |
| 4 | 21992 | 1 | LOCKWASHER,5/8" |
| 5 | 21775 | 1 | HEX NUT,5/8",NC |
| 6 | 21677 | 3 | NYLOCK NUT,7/16",NC |
| 7 | 32380 | 1 | PIN,1" |
| 8 | 21683 | 2 | CAPSCREW,7/16" X 2",NC |
| 9 | 32322 | 2 | BEARING,2-1/2"ID |
| 10 | 6T3211 | 2 | GREASE ZERK,1/8" |
| 11 | 06700150 | 1 | SWIVEL,ASSY |
| --- | 06310080 | 1 | SWIVEL |
| 12 | ----- | - | SPHERICAL BEARING *REFERENCE ONLY |
| 13 | TB1023 | 2 | ROLLPIN,7/32" |
| 14 | 06420100 | 1 | PIN,1-1/4" |
| 15 | 06420022 | 1 | PIN,1-1/2" |
| 16 | 21688 | 1 | CAPSCREW,7/16" X 3-1/4",NC |
| 17 | 06520250 | 1 | BEARING,SWIVEL |
| 18 | 06505085 | 2 | CLAMP,HOSE |
| 19 | 33705 | 1 | CYLINDER,3" X 17-1/2" |
| 20 | 32810 | 2 | ELBOW,1/2"MOR X 3/8"MJ |
| 21 | 33710 | 1 | PIN,1" |

BOOMREST, SINGLE COLUMN

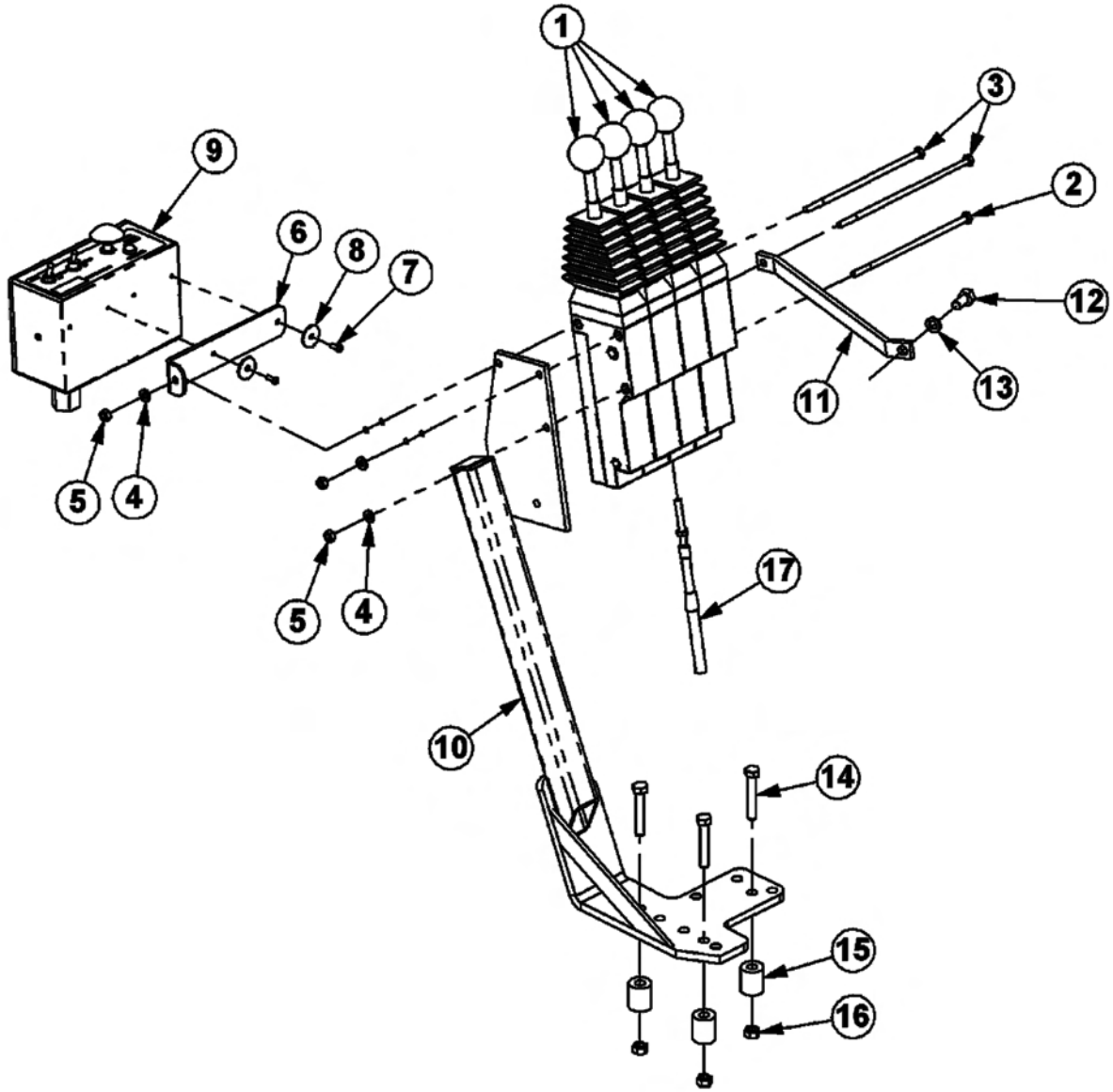


BOOMREST, SINGLE COLUMN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | ----- | - | MNFRM *REFER TO TRACTOR MOUNT KIT PAGE |
| 2 | 06300131 | 1 | AXLE BRACE,JD6X30,SC |
| 3 | 06310074 | 1 | BOOMREST,SINGLE COLUMN |
| 4 | 06310099 | 1 | BOOMREST,ADPTR,PANTHER |
| 5 | 06533004 | 4 | FLATWASHER,1/2",SAE,GR8 |
| 6 | 21732 | 4 | CAPSCREW,1/2" X 1-3/4",NC |
| 7 | 06420127 | 1 | U-BOLT,5/8" |
| 8 | 21825 | 10 | HEX NUT,3/4",NC |
| 9 | 22021 | 16 | FLATWASHER,3/4" |
| 10 | 21843 | 8 | CAPSCREW,3/4" X 6",NC |
| 11 | 33764 | 2 | FLATWASHER,5/8",GR8,SAE |
| 12 | 6T2408 | 2 | HEX NUT,5/8",NF,GR8 |
| 13 | 24881 | 6 | LOCKWASHER,20MM |
| 14 | 27281 | 6 | CAPSCREW,20MM X 60MM,2.5P |
| 15 | 21832 | 2 | CAPSCREW,3/4" X 2",NC |
| 16 | 33880 | 2 | FLATWASHER,3/4",GR8,SAE |
| 17 | 21732 | 4 | CAPSCREW,1/2" X 1-3/4",NC |

4 SPOOL CABLE CONTROL MOUNT



4 SPOOL CABLE CONTROL MOUNT

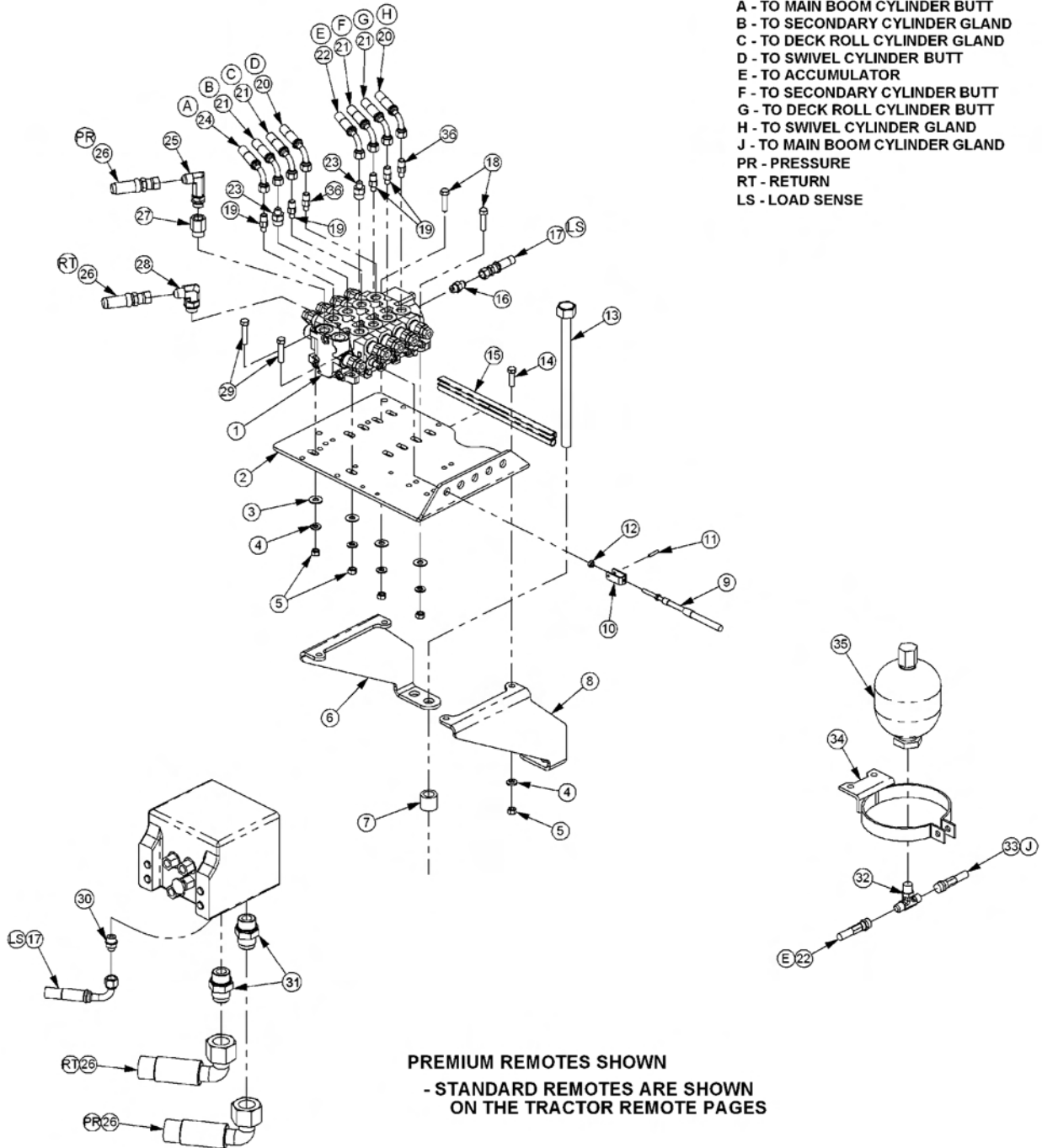
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------|
| 1 | 6T1251 | 4 | CBL CTRL BOX,180 DEG |
| 2 | 21546 | 1 | CAPSCREW, 1/4" X 7" NC |
| 3 | 21547 | 2 | CAPSCREW, 1/4" X 8" NC |
| 4 | 21986 | 3 | LOCKWASHER,1/4 |
| 5 | 21525 | 3 | HEX NUT,1/4 NC |
| 6 | 34496 | 1 | BRKT,SWITCHBOX,UNI |
| 7 | 6T3951 | 2 | SCREW,MACHINE 8/32 X 1/2 |
| 8 | 32360 | 2 | LOCKWASHER,#8 |
| 9 | 06510100 | 1 | SWITCHBOX,BOOM,GND |
| 10 | 23865B | 1 | CBL CTRL MT BRKT, 9030- |
| 11 | 30750A | 1 | BRKT,CBL,CTRL,JD6000 |
| 12 | 33534 | 1 | CAPSCREW,10MMX20MM |
| 13 | 32691 | 1 | LOCKWASHER,10MM |
| 14 | 21636 | 3 | CAPSCREW,3/8 X 2-1/2 NC |
| 15 | 27082B | 3 | SPACER |
| 16 | 21627 | 3 | NYLOCK NUT,3/8 NC |
| 17 | 34623 | 4 | CBL,CNTRL,122 |

CABLE (MANUAL) LIFT VALVE - 4 SPOOL

HOSE ROUTING

- A - TO MAIN BOOM CYLINDER BUTT
- B - TO SECONDARY CYLINDER GLAND
- C - TO DECK ROLL CYLINDER BUTT
- D - TO SWIVEL CYLINDER BUTT
- E - TO ACCUMULATOR
- F - TO SECONDARY CYLINDER BUTT
- G - TO DECK ROLL CYLINDER BUTT
- H - TO SWIVEL CYLINDER GLAND
- J - TO MAIN BOOM CYLINDER GLAND
- PR - PRESSURE
- RT - RETURN
- LS - LOAD SENSE

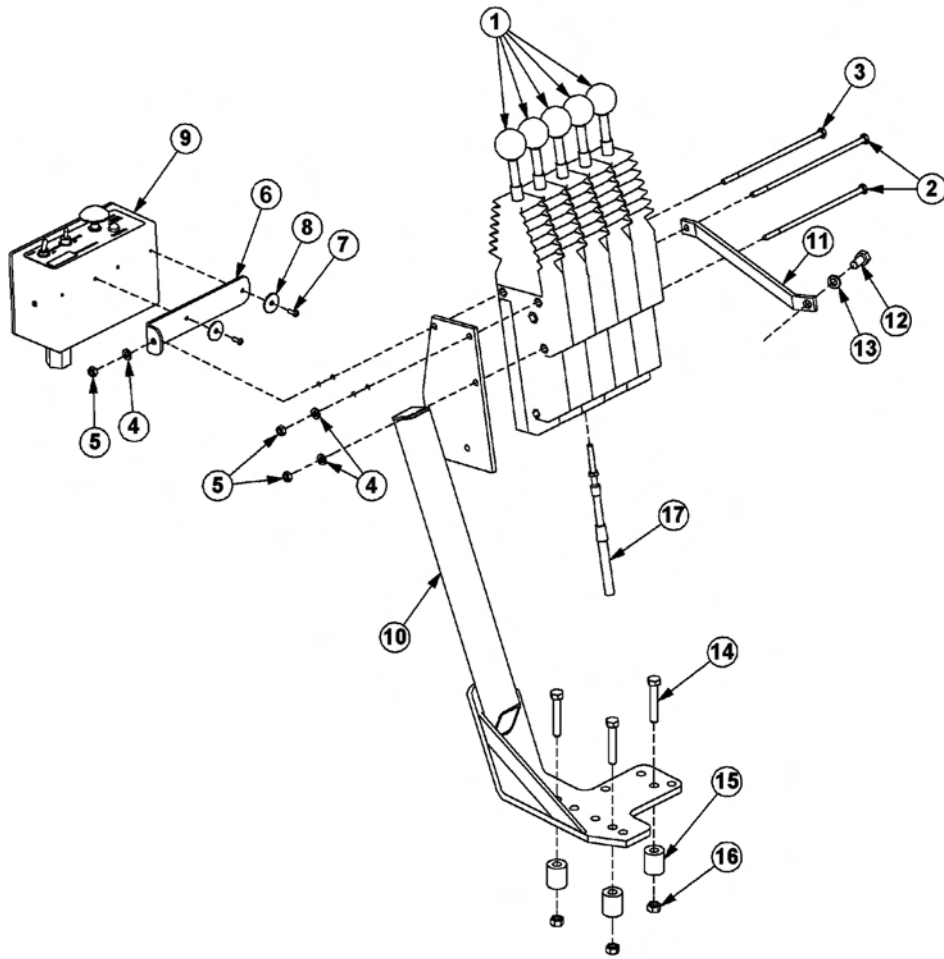


CABLE (MANUAL) LIFT VALVE - 4 SPOOL

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06502104 | 1 | VLV,4SP,HSC (FLAIL) |
| 2 | 34622 | 1 | PLATE,VALVE,REAR MNT |
| 3 | 22016 | 4 | FLATWASHER,3/8" |
| 4 | 21988 | 8 | LOCKWASHER,3/8" |
| 5 | 21625 | 8 | HEX NUT,3/8",NC |
| 6 | 06410430 | 1 | MOUNT,VALVE,LEFT |
| 7 | 34519 | 4 | SPACER,1-1/4 X 13/16" X 1-1/8" |
| 8 | 06410429 | 1 | MOUNT,VALVE,RIGHT |
| 9 | 34623 | 4 | CBL,CNTRL,122" |
| 10 | 6T4411 | 4 | CLEVIS,CBL CTRL,3/16" |
| 11 | 6T3017 | 4 | ROLLPIN,3/16" X 1" |
| 12 | 21500 | 4 | HEX NUT,1/4",NF |
| 13 | 06530514 | 4 | CAPSCREW,18MM X 290MM,2.5P |
| 14 | 21631 | 4 | CAPSCREW,3/8" X 1-1/4",NC |
| 15 | 28053 | 1 | TRM LK,9/16X1/8FN PBL*100-1/8 |
| 16 | 32901 | 1 | ADAPTER,3/8"MOR X 3/8"MJ (STANDARD TRACTORS) |
| --- | 06503142 | 1 | ADAPTER,3/8"MOR X 3/8"MJ,CHK VLV (PREMIUM TRACTORS) |
| 17 | ----- | 1 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 18 | 21633 | 2 | CAPSCREW,3/8" X 1-3/4",NC |
| 19 | 33271 | 5 | ADAPTER,1/2"MOR X 3/8"MJ |
| 20 | 06500345 | 2 | HOSE,1/4" X 171" |
| 21 | 34358 | 4 | HOSE,1/4" X 196" |
| 22 | 34631 | 1 | HOSE,1/4" X 126" |
| 23 | 06502036 | 2 | VLV,CHECK,W/.06"ORF |
| 24 | 06500149 | 1 | HOSE,1/4" X 220" |
| 25 | 33293 | 1 | ELBOW,LONG |
| 26 | ----- | 1 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 27 | 32678 | 1 | ADAPTER,5/8"MOR X 1/2"FOR |
| 28 | 33383 | 1 | ELBOW,LONG |
| 29 | 21632 | 2 | CAPSCREW,3/8" X 1-1/2",NC |
| 30 | ----- | 2 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 31 | ----- | 2 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 32 | 34020 | 1 | TEE,BRANCH |
| 33 | 06500150 | 1 | HOSE,1/4" X 142" |
| 34 | 23888 | 1 | BRKT,ACCUMULATER |
| 35 | 24300 | 1 | ACCUMULATER |
| --- | 06505035 | 1 | VALVE COVER - NON CAB ONLY (NOT SHOWN) |
| 36 | 34396 | 2 | ADAPTER,.06"RSTRCTR |

5 SPOOL CABLE CONTROL MOUNT

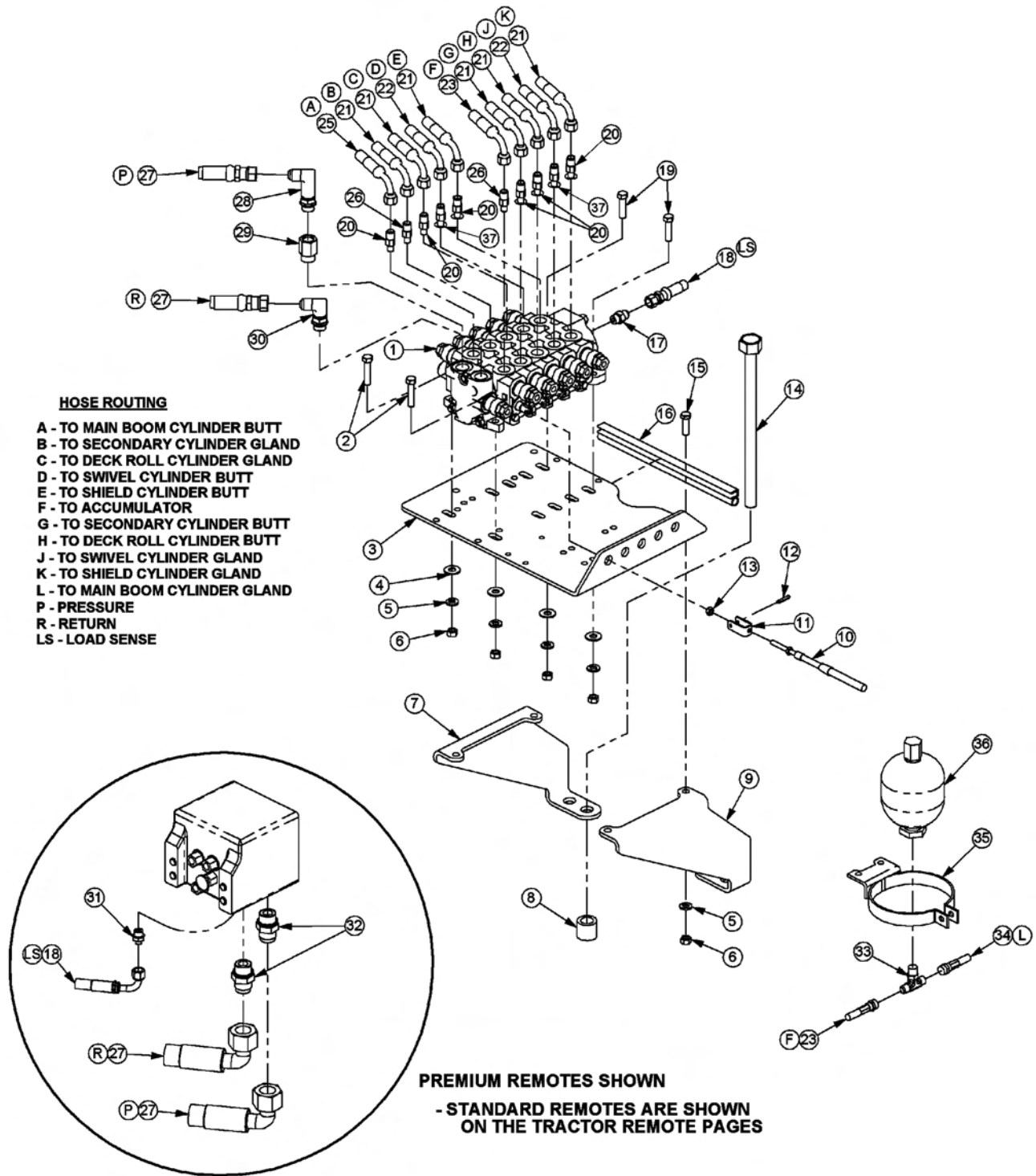


5 SPOOL CABLE CONTROL MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------|
| 1 | 6T1251 | 5 | CBL CTRL BOX,180 DEG |
| 2 | 21548 | 2 | CAPSCREW, 1/4" X 9" NC |
| 3 | 34332 | 1 | CAPSCREW, 1/4" X 9-1/4" NC |
| 4 | 21986 | 3 | LOCKWASHER,1/4 |
| 5 | 21525 | 3 | HEX NUT,1/4 NC |
| 6 | 34496 | 1 | BRKT,SWITCHBOX,UNI |
| 7 | 6T3951 | 2 | SCREW,MACHINE 8/32 X 1/2 |
| 8 | 32360 | 2 | LOCKWASHER,#8 |
| 9 | 6510100 | 1 | SWITCHBOX,BOOM,GND |
| 10 | 23865B | 1 | CBL CTRL MT BRKT, 9030- |
| 11 | 30750A | 1 | BRKT,CBL,CTRL,JD6000 |
| 12 | 33534 | 1 | CAPSCREW,10MMX20MM |
| 13 | 32691 | 1 | LOCKWASHER,10MM |
| 14 | 21636 | 3 | CAPSCREW,3/8 X 2-1/2 NC |
| 15 | 27082B | 3 | SPACER |
| 16 | 21627 | 3 | NYLOCK NUT,3/8 NC |
| 17 | 34623 | 5 | CBL,CNTRL,122 |

CABLE (MANUAL) LIFT VALVE - 5 SPOOL

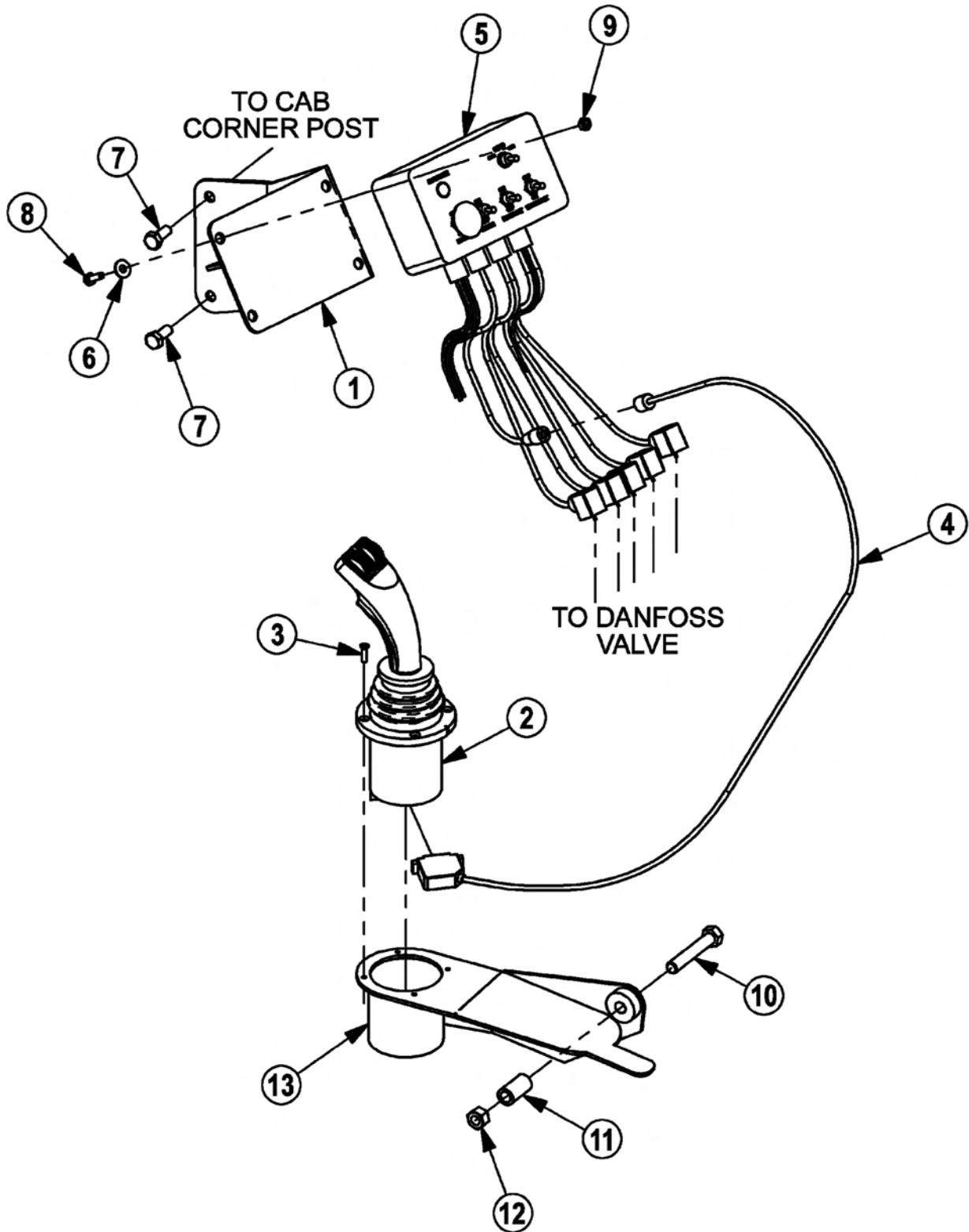


CABLE (MANUAL) LIFT VALVE - 5 SPOOL

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06502103 | 1 | VALVE,CABLE,5 SPOOL |
| 2 | 21633 | 2 | CAPSCREW,3/8" X 1-3/4",NC |
| 3 | 34622 | 1 | PLATE,VALVE,REAR MNT |
| 4 | 22016 | 4 | FLATWASHER,3/8" |
| 5 | 21988 | 8 | LOCKWASHER,3/8" |
| 6 | 21625 | 8 | HEX NUT,3/8",NC |
| 7 | 06410430 | 1 | MOUNT,VALVE,LEFT |
| 8 | 34519 | 4 | SPACER,1-1/4" X 13/16" X 1-1/8" |
| 9 | 06410429 | 1 | MOUNT,VALVE,RIGHT |
| 10 | 34623 | 5 | CBL,CNTRL,122" |
| 11 | 6T4411 | 5 | CLEVIS,CBL CTRL,3/16" |
| 12 | 6T3017 | 5 | ROLLPIN,3/16" X 1" |
| 13 | 21500 | 5 | HEX NUT,1/4",NF |
| 14 | 06530514 | 4 | CAPSCREW,18MM X 290MM,2.5P |
| 15 | 21631 | 4 | CAPSCREW,3/8" X 1-1/4",NC |
| 16 | 28053 | 1 | TRM LK,9/16" X 1/8"FN PBL*100-1/8 |
| 17 | 32901 | 1 | ADAPTER,3/8"MOR X 3/8"MJ (STANDARD TRACTORS) |
| --- | 06503142 | 1 | ADAPTER,3/8"MOR X 3/8"MJ,CHK VLV (PREMIUM TRACTORS) |
| 18 | ----- | 1 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 19 | 21632 | 2 | CAPSCREW,3/8" X 1-1/2",NC |
| 20 | 33271 | 6 | ADAPTER,1/2"MOR X 3/8"MJ |
| 21 | 34358 | 6 | HOSE,1/4" X 196" |
| 22 | 06500345 | 2 | HOSE,1/4" X 171" |
| 23 | 34631 | 1 | HOSE,1/4" X 126" |
| 25 | 06500149 | 1 | HOSE,1/4" X 220" |
| 26 | 06502036 | 2 | VLV,CHECK,W/.06"ORF |
| 27 | ----- | 2 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 28 | 33293 | 1 | ELBOW,LONG |
| 29 | 32678 | 1 | ADAPTER,5/8"MOR X 1/2"FOR |
| 30 | 33383 | 1 | ELBOW,LONG |
| 31 | ----- | 1 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 32 | ----- | 2 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 33 | 34020 | 1 | TEE,BRANCH |
| 34 | 06500150 | 1 | HOSE,1/4" X 142" |
| 35 | 23888 | 1 | BRKT,ACCUMULATER |
| 36 | 24300 | 1 | ACCUMULATER |
| --- | 06505035 | 1 | VALVE COVER - NON CAB ONLY (NOT SHOWN) |
| 37 | 34396 | 2 | ADAPTER,.06"RSTRCTR |

JOYSTICK AND SWITCHBOX MOUNT

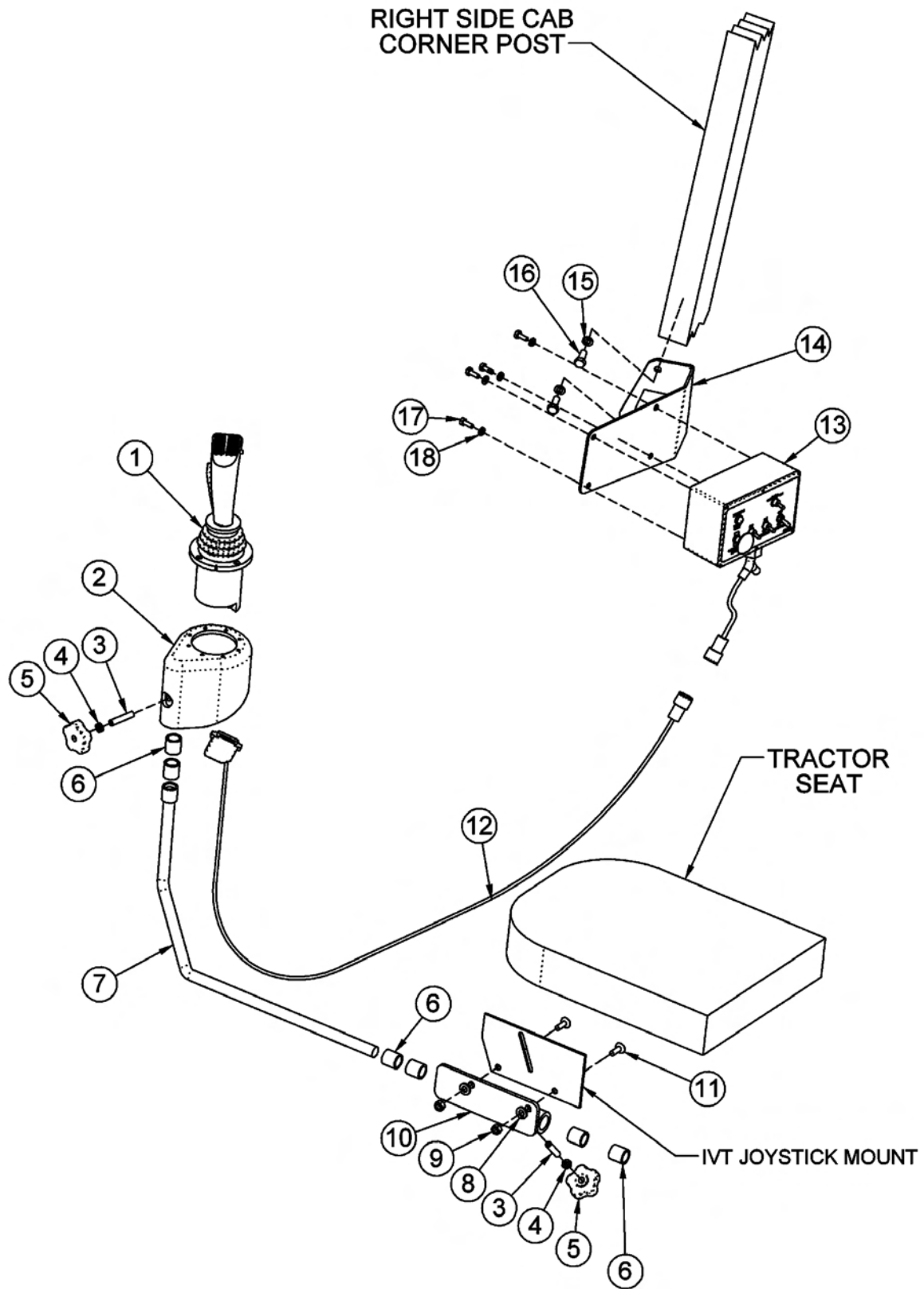


JOYSTICK AND SWITCHBOX MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| 1 | 33355 | 1 | MNT,BRKT,SWITCH BOX |
| 2 | 33691 | 1 | JOYST,4AXIS,RH,DF,W/SUB-D CONN |
| 3 | 32829 | 4 | SCREW,MACHINE,10-32X3/4,FLATHD |
| 4 | 33693 | 1 | CBL,EXT,4FT,JOYST,W/SUB-D CONN |
| 5 | 06510196 | 1 | SWITCHBOX |
| 6 | 22014 | 4 | FLATWASHER,1/4 |
| 7 | 27513 | 2 | CAPSCREW,10MMX25MM(1.5 PITCH) |
| 8 | 21529 | 4 | CAPSCREW,1/4 X 3/4 NC |
| 9 | 21527 | 4 | NYLOCK NUT,1/4 NC |
| 10 | 21737 | 1 | CAPSCREW,1/2 X 3 NC |
| 11 | 33359 | 1 | TUBE,SPACER,JD6000 JSTICK |
| 12 | 21727 | 1 | NYLOCK NUT,1/2 NC |
| 13 | 33356 | 1 | ARMREST,JOYSTICK |

JOYSTICK AND SWITCHBOX IVT MOUNT

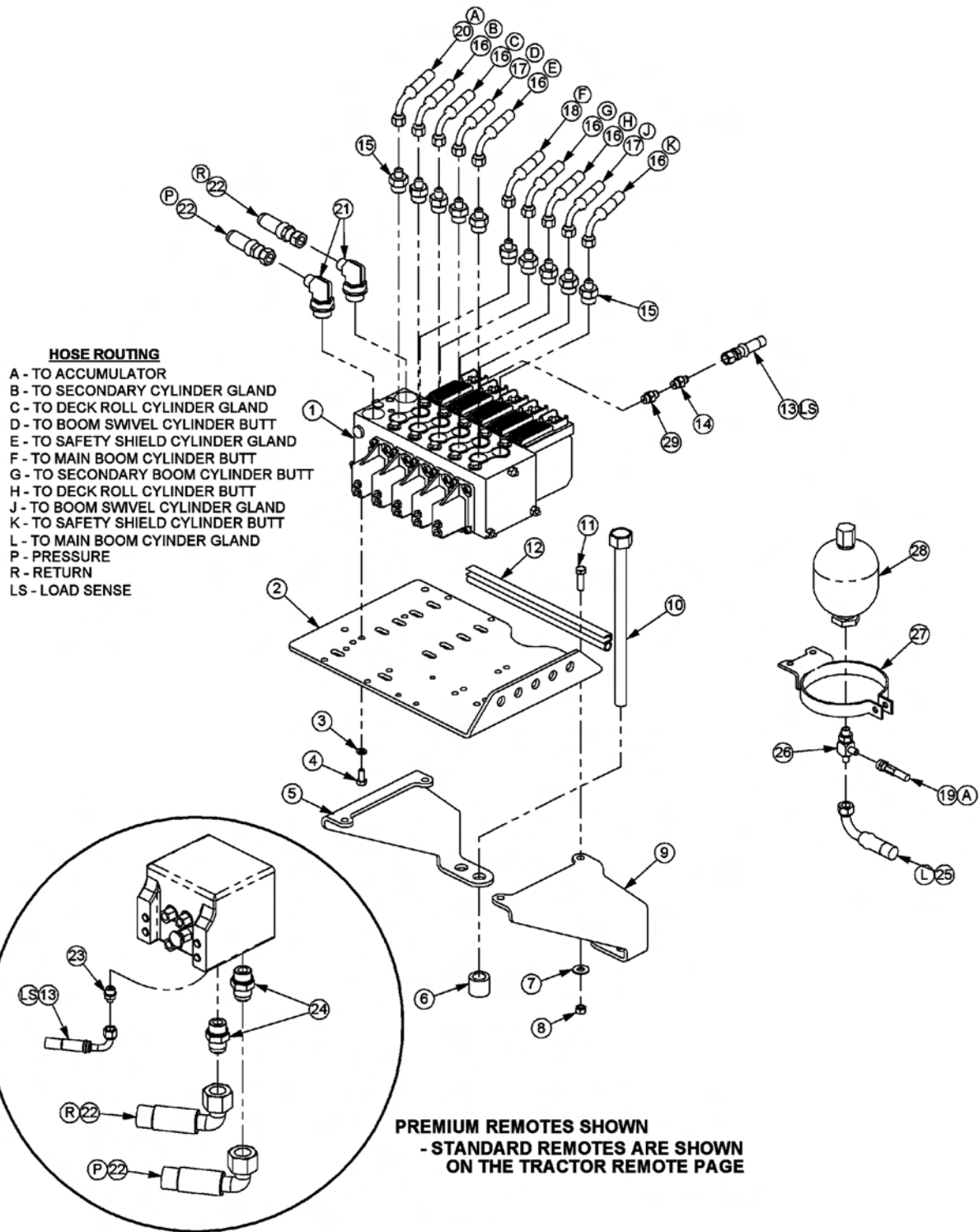


JOYSTICK AND SWITCHBOX IVT MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| 1 | 33691 | 1 | JOYSTICK |
| 2 | 35033 | 1 | CAN,JOYSTICK |
| 3 | 35205 | 2 | SETSCREW,3/8 X 2,NC,KNURLED |
| 4 | 35206 | 2 | HEX NUT,JAMB,3/8,NC |
| 5 | 35204 | 2 | KNOB |
| 6 | 35256 | 7 | BUSHING,NYLON |
| 7 | 06420095 | 1 | ROD,FORMED |
| 8 | 21988 | 2 | LOCKWASHER,3/8 |
| 9 | 21625 | 2 | HEX NUT,3/8,NC |
| 10 | 06370093 | 1 | MNT,JOYSTICK,JD-IVT |
| 11 | 28734 | 2 | CAPSCREW,FLT/SKT HD,3/8 X 1,NC |
| 12 | 33693 | 1 | CBL,EXT,4FT,JOYST,W/SUB-D CONN |
| 13 | 06510196 | 1 | SWITCHBOX |
| 14 | 06370095 | 1 | MNT,SWITCHBOX |
| 15 | 32691 | 2 | LOCKWASHER,10MM |
| 16 | 25188 | 2 | CAPSCREW,10MM X 15MM(1.5P) |
| 17 | 21529 | 4 | CAPSCREW,1/4 X 3/4,NC |
| 18 | 21986 | 4 | LOCKWASHER,1/4 |

ELECTRONIC PROPORTIONAL LIFT VALVE



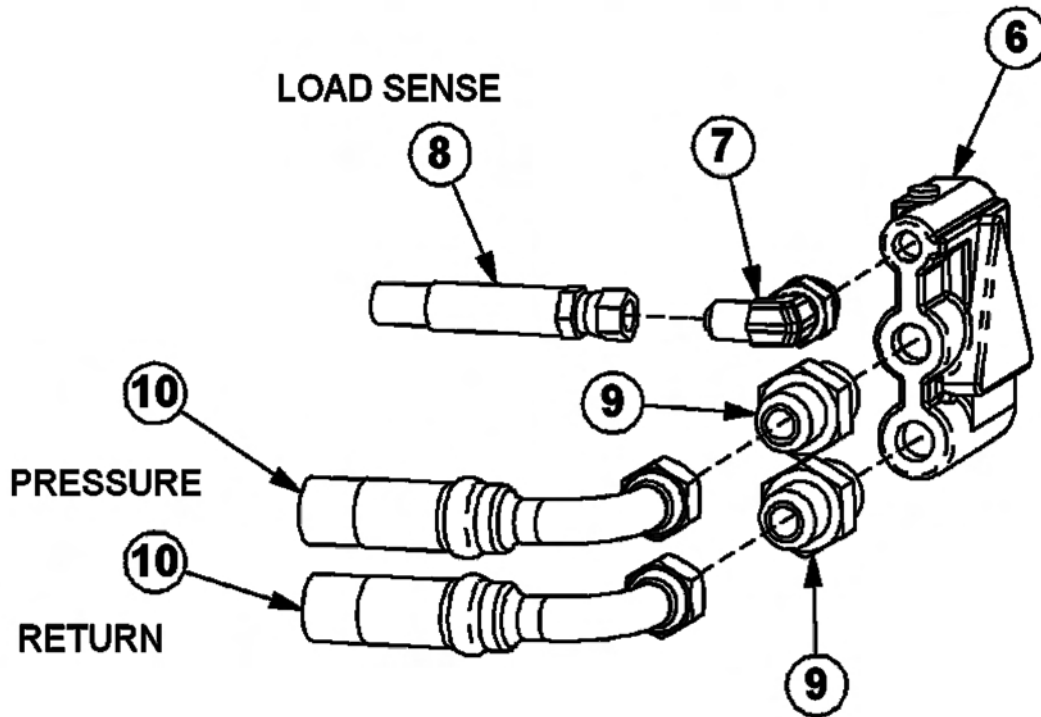
ELECTRONIC PROPORTIONAL LIFT VALVE

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 06502096 | 1 | ELECTRIC LIFT VALVE - 5 SPOOL |
| 2 | 34622 | 1 | PLATE, VALVE, REAR MNT |
| 3 | 21987 | 4 | LOCKWASHER, 5/16" |
| 4 | 21579 | 4 | CAPSCREW, 5/16" X 3/4", NC |
| 5 | 06410430 | 1 | MOUNT, VALVE, LEFT |
| 6 | 34519 | 4 | SPACER, 1-1/4" X 13/16" X 1-1/8" |
| 7 | 22016 | 4 | FLATWASHER, 3/8" |
| 8 | 21625 | 4 | HEX NUT, 3/8", NC |
| 9 | 06410429 | 1 | MOUNT, VALVE, RIGHT |
| 10 | 06530514 | 4 | CAPSCREW, 18MM X 290MM, 2.5P |
| 11 | 21631 | 4 | CAPSCREW, 3/8" X 1-1/4", NC |
| 12 | 28053 | 1 | TRM LK, 9/16" X 1/8" FN PBL*100-1/8 |
| 13 | ----- | 1 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 14 | 33392 | 1 | ADAPTER (STANDARD TRACTORS) |
| --- | 06503142 | 1 | ADAPTER (PREMIUM TRACTORS) |
| 15 | 32807 | 10 | ADAPTER |
| 16 | 34358 | 6 | HOSE, 1/4" X 196" |
| 17 | 06500345 | 2 | HOSE, 1/4" X 171" |
| 18 | 06500149 | 1 | HOSE, 1/4" X 220" |
| 20 | 34631 | 1 | HOSE, 1/4" X 126" |
| 21 | 33294 | 2 | ELBOW |
| 22 | ----- | 2 | HOSE *REFER TO TRACTOR REMOTES PAGE |
| 23 | ----- | 1 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 24 | ----- | 2 | ADAPTER *REFER TO TRACTOR REMOTES PAGE |
| 25 | 06500150 | 1 | HOSE, 1/4" X 142" |
| 26 | 34020 | 1 | TEE, BRANCH |
| 27 | 23888 | 1 | BRKT, ACCUMULATER |
| 28 | 24300 | 1 | ACCUMULATER |
| 29 | 06503143 | 1 | ADAPTER (PREMIUM TRACTORS) |
| --- | 06505035 | 1 | VALVE COVER - NON CAB ONLY (NOT SHOWN) |

TRACTOR REMOTE PORTS (STANDARD)

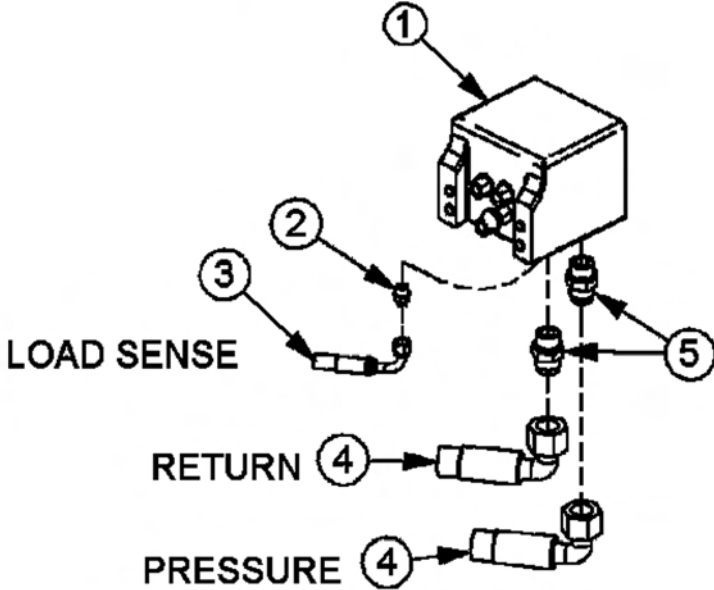
STANDARD SERIES TRACTOR



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------|
| 6 | ----- | 1 | TRACTOR REMOTES (STANDARD) |
| 7 | 06503013 | 1 | ELBOW,14MM ORB X 5/16MJ |
| 8 | 06500400 | 1 | HOSE,1/4" X 30" |
| | 06500350 | 1 | HOSE,1/4" X 26" |
| 9 | 33463 | 2 | ADAPTER,22MM ORB X 1/2MJ |
| 10 | 34612 | 2 | HOSE,1/2" X 34 |

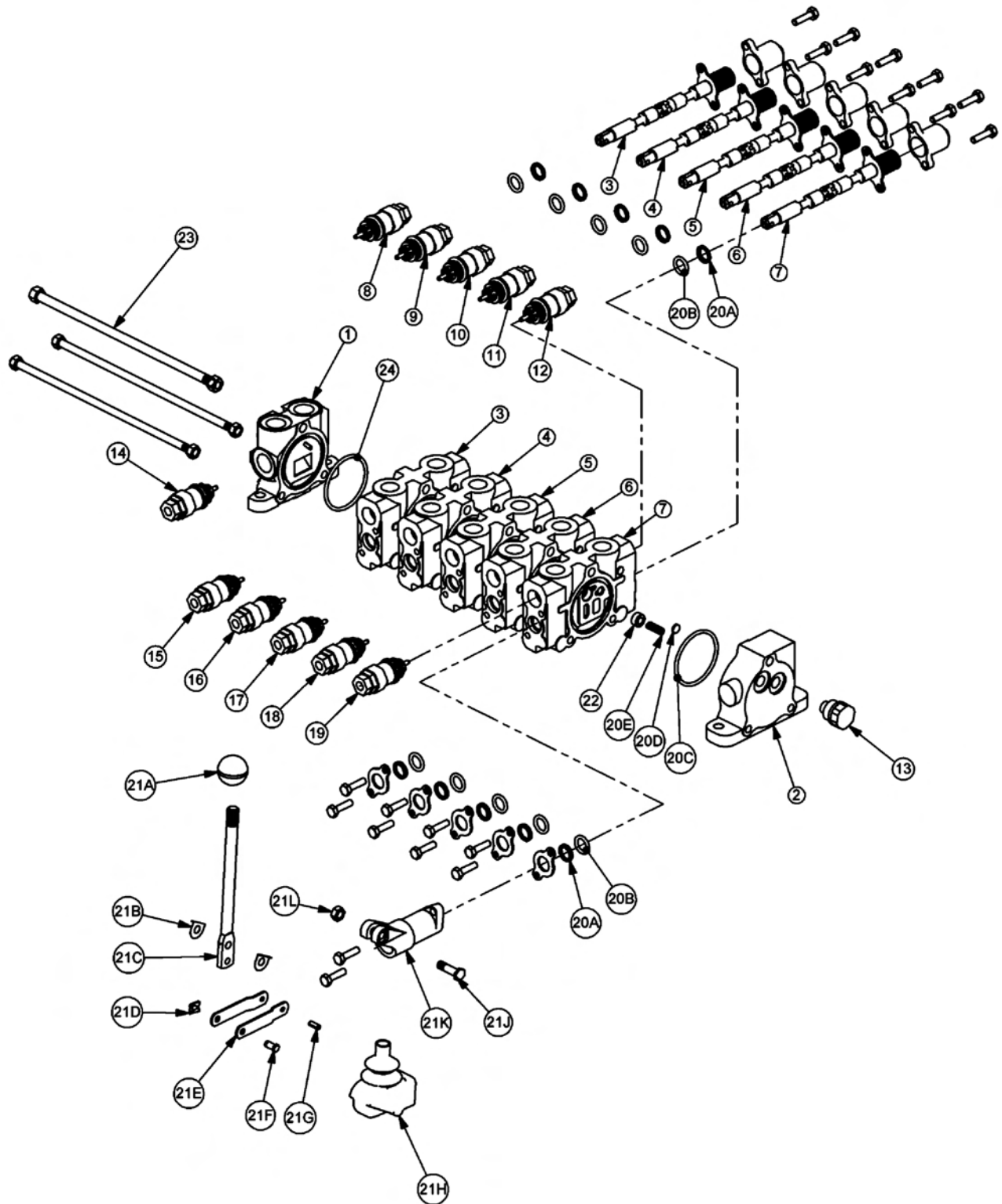
TRACTOR REMOTE PORTS (PREMIUM)

PREMIUM SERIES TRACTOR



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------|
| 1 | ----- | 1 | TRACTOR REMOTES |
| 2 | 06503069 | 1 | ADAPTER,14MM ORB X 3/8MJ |
| 3 | 06500267 | 1 | HOSE,1/4" X 30" |
| 4 | 06500269 | 2 | HOSE,1/2" X 40" |
| 5 | 06503012 | 2 | ADAPTER,27MM ORB X 3/4MJ |

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502103

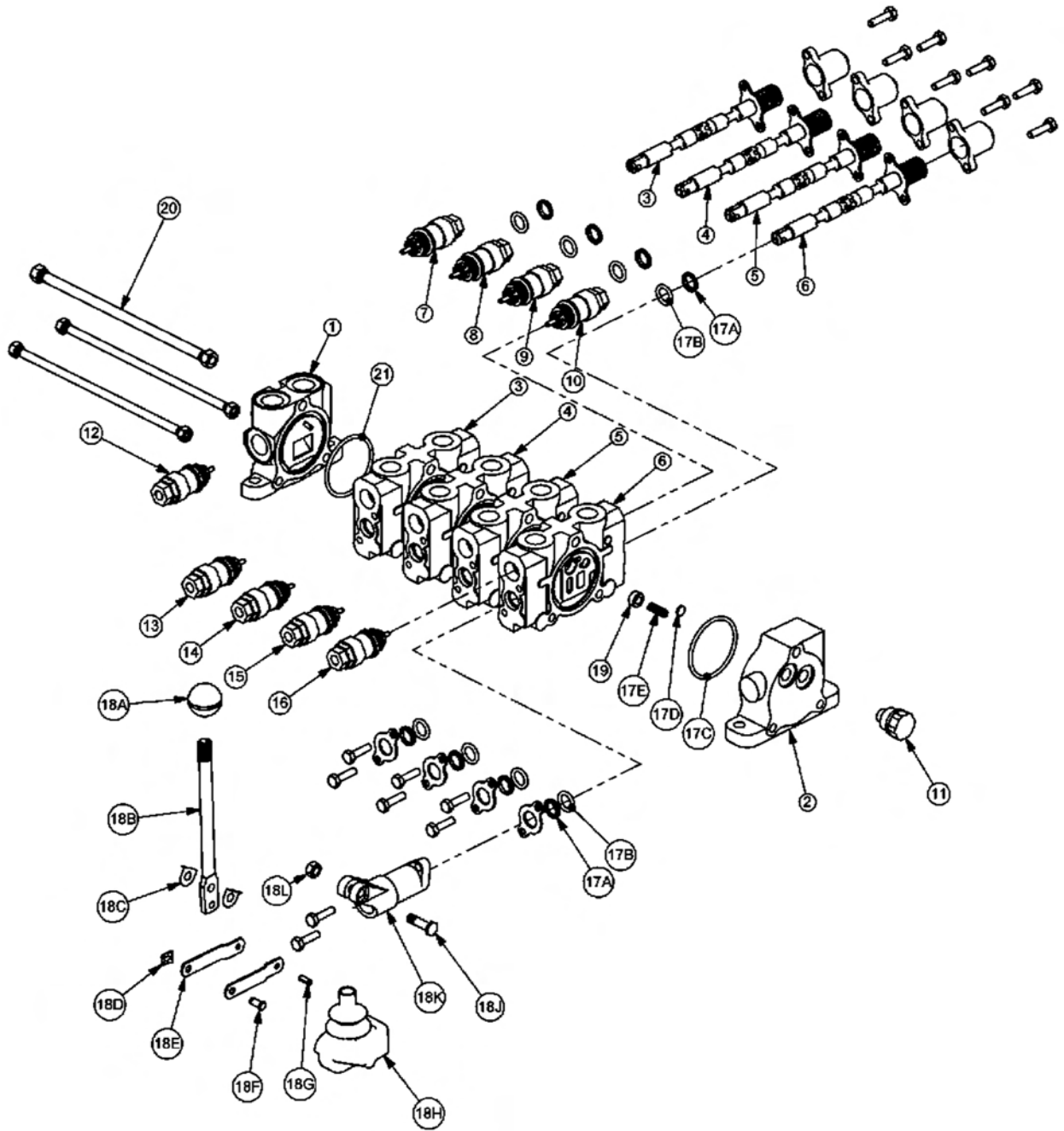


CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502103

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 5 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 6 | 31598 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) |
| 7 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC) |
| 8 | 06503067 | 1 | RELIEF PLUG, #10 O-RING |
| 9 | TB1017K | 1 | RELIEF VALVE, 2500 PSI |
| 10 | TB1017J | 1 | RELIEF VALVE, 2175 PSI |
| 11 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 12 | 22588 | 1 | RELIEF VALVE, 500 PSI |
| 13 | 06503068 | 1 | RELIEF PLUG, #6 O-RING |
| 14 | 6T4209 | 1 | RELIEF PLUG, #10 O-RING |
| 15 | 06502085 | 1 | RELIEF VALVE, 3000 PSI |
| 16 | TB1017F | 1 | RELIEF VALVE, 1750 PSI |
| 17 | TB1017F | 1 | RELIEF VALVE, 1750 PSI |
| 18 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 19 | 22588 | 1 | RELIEF VALVE, 500 PSI |
| 20 | 31593 | 5 | VALVE SEAL KIT (FOR ONE SECTION) |
| 20A | ----- | 2 | WIPER |
| 20B | ----- | 2 | O-RING SMALL |
| 20C | ----- | 1 | O-RING LARGE |
| 20D | ----- | 1 | SHUTTLE DISC |
| 20E | ----- | 1 | SPRING |
| 21 | TB1017L | 5 | LEVER KIT (FOR ONE SECTION) |
| 21A | ----- | 1 | LEVER KNOB |
| 21B | ----- | 1 | LEVER |
| 21C | ----- | 2 | LEVER WASHER |
| 21D | ----- | 1 | LEVER CLIP |
| 21E | ----- | 2 | LINKAGE |
| 21F | ----- | 1 | LEVER PIN |
| 21G | ----- | 1 | ROLL PIN |
| 21H | ----- | 1 | LEVER BOOT |
| 21J | ----- | 1 | LEVER BOLT |
| 21K | ----- | 1 | LEVER DUST COVER |
| 21L | ----- | 1 | LEVER NUT |
| 22 | 31603 | 5 | COMPENSATOR |
| 23 | TB1017V | 1 | TIE ROD KIT |
| 24 | 24214 | 1 | O-RING, LARGE |

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502104

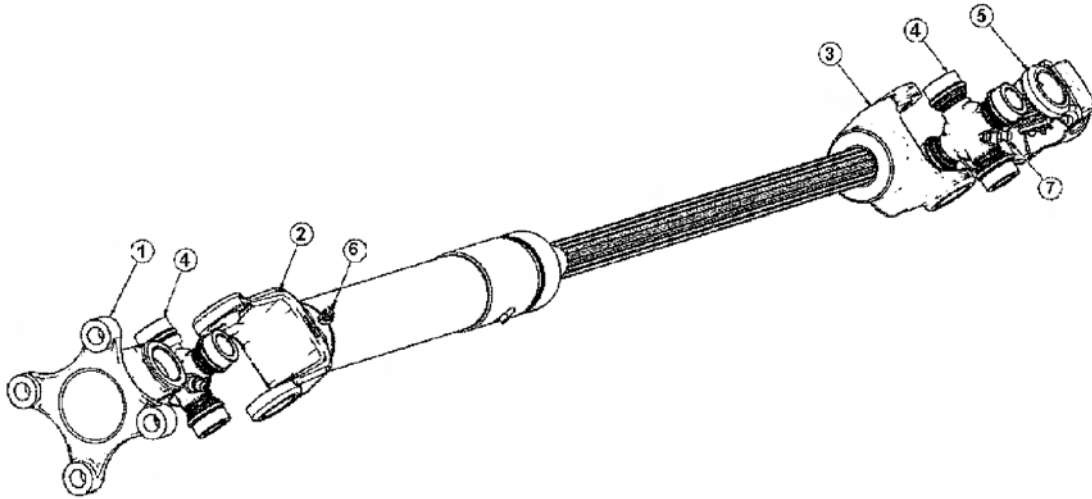


CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502104

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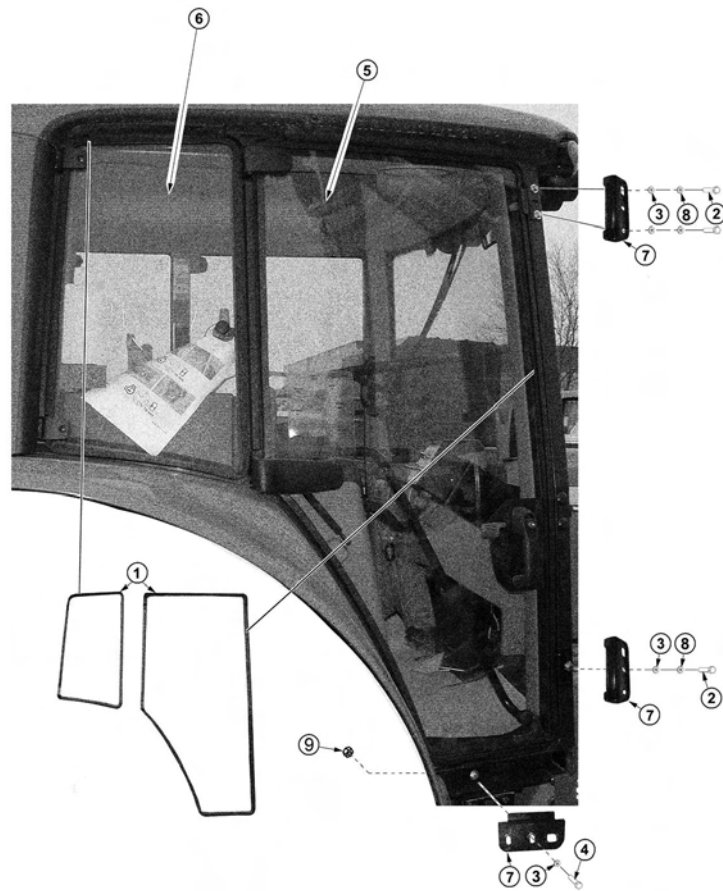
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 31595 | 1 | INLET END COVER |
| 2 | 31594 | 1 | END COVER, LOAD SENSE |
| 3 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 4 | 31597 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING) |
| 5 | 31600 | 1 | VALVE SECTION (DOUBLE ACTING, DETENT-FLOAT) |
| 6 | 31598 | 1 | VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) |
| 7 | 06503067 | 1 | #10 O-RING PLUG |
| 8 | 06502003 | 1 | RELIEF VALVE, 2500 PSI |
| 9 | 31862 | 1 | RELIEF VALVE, 2175 PSI |
| 10 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 11 | 06503068 | 1 | #6 O-RING PLUG |
| 12 | 6T4209 | 1 | #10 O-RING PLUG |
| 13 | 06502085 | 1 | RELIEF VALVE, 3000 PSI |
| 14 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 15 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 16 | TB1017H | 1 | RELIEF VALVE, 1750 PSI |
| 17 | 31593 | 4 | VALVE SEAL KIT (FOR ONE SECTION) |
| 17A | ----- | 2 | WIPER |
| 17B | ----- | 2 | O-RING SMALL |
| 17C | ----- | 1 | O-RING LARGE |
| 17D | ----- | 1 | SHUTTLE DISC |
| 17E | ----- | 1 | SPRING |
| 18 | TB1017L | 4 | LEVER KIT (FOR ONE SECTION) |
| 18A | ----- | 1 | LEVER KNOB |
| 18B | ----- | 1 | LEVER |
| 18C | ----- | 2 | LEVER WASHER |
| 18D | ----- | 1 | LEVER CLIP |
| 18E | ----- | 2 | LINKAGE |
| 18F | ----- | 1 | LEVER PIN |
| 18G | ----- | 1 | ROLL PIN |
| 18H | ----- | 1 | LEVER BOOT |
| 18J | ----- | 1 | LEVER BOLT |
| 18K | ----- | 1 | LEVER DUST COVER |
| 18L | ----- | 1 | LEVER NUT |
| 19 | 31603 | 4 | COMPENSATOR |
| 20 | TB1017U | 1 | TIE ROD KIT |
| 21 | 24214 | 1 | O-RING, LARGE |

PUMP DRIVESHAFT ASSEMBLY



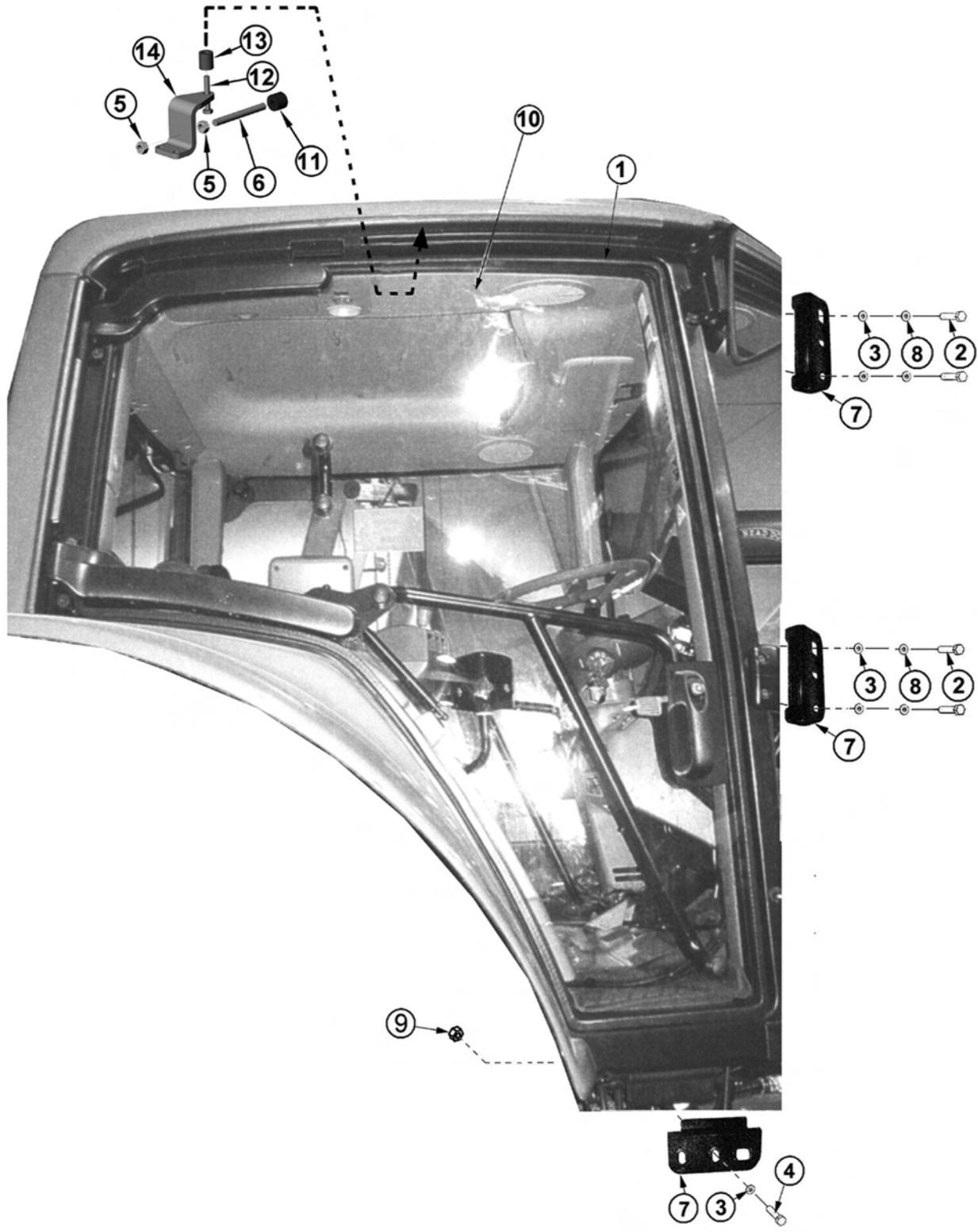
| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|-----------------------|
| ----- | 34999 | 1 | DRIVESHAFT,U-JOINT |
| 1 | 06505004 | 1 | YOKE PULLEY |
| 2 | 06505005 | 1 | SLEEVE |
| 3 | 06505006 | 1 | SHAFT |
| 4 | 06505007 | 2 | CROSS |
| 5 | 06505008 | 1 | YOKE DRIVE |
| 6 | 6T3203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

POLYCARBONATE SAFETY WINDOW (STANDARD)



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------|
| 1 | 31965 | 22 | TRIM SEAL (FEET) |
| 2 | 27508 | 3 | CAPSCREW,8MM X 20MM(1.25P) |
| 3 | 22015 | 6 | FLATWASHER,5/16" |
| 4 | 21581 | 1 | CAPSCREW,5/16" X 1-1/4",NC |
| 5 | 06490005 | 1 | POLYCARB,FRMD,DOOR,RH |
| 6 | 06490027 | 1 | POLYCARB,FRMD,REAR,RH |
| 7 | 06520040 | 3 | BRACKET,RETAINING |
| 8 | 6T2619 | 3 | LOCKWASHER,8MM |
| 9 | 21577 | 1 | NYLOCK NUT,5/16",NC |

POLYCARBONATE SAFETY WINDOW (PANORAMIC)

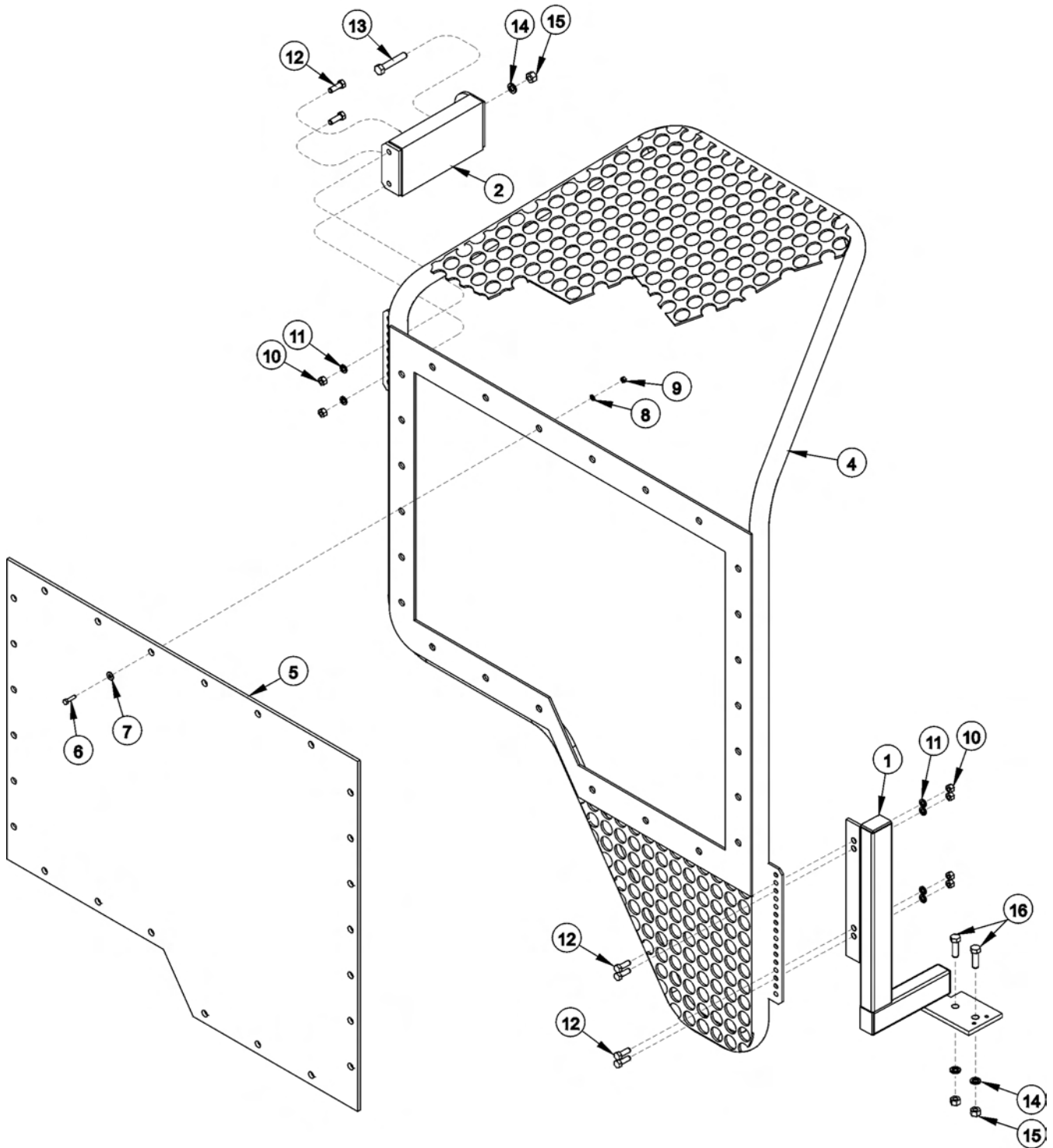


POLYCARBONATE SAFETY WINDOW (PANORAMIC)

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | 31965 | 20 | TRIM SEAL (FEET) |
| 2 | 27508 | 4 | CAPSCREW,8MM X 20MM(1.25P) |
| 3 | 22015 | 5 | FLATWASHER,5/16" |
| 4 | 21581 | 1 | CAPSCREW,5/16" X 1-1/4",NC |
| 5 | 21575 | 2 | HEX NUT,5/16",NC |
| 6 | 33478 | 1 | ROD,THREADED,5/16" X 3" |
| 7 | 06520040 | 3 | BRKT,JD,POLY,RETAIN |
| 8 | 6T2619 | 4 | LOCKWASHER,8MM |
| 9 | 21577 | 1 | NYLOCK NUT,5/16",NC |
| 10 | 06490035 | 1 | POLYCARB,FRMD,PAN,JD6-7030 |
| 11 | 33477 | 1 | VIBRATION ISOLATOR,5/16",NC |
| 12 | 06530525 | 1 | CAPSCREW,6MM X 40MM(1.0P),GR8.8 |
| 13 | 31034 | 1 | SPACER,5/8"OD X 3/8"ID X 3/4" |
| 14 | 06410269 | 1 | BRKT,SFTY SCRNBOTTOM |
| 15 | 06537005 | 1 | ADHESIVE,WTHR STRP,BLK (NOT SHOWN) |
| 16 | 22645 | 1 | DECAL,POLYCARBONATE WINDOW (NOT SHOWN) |

SAFETY SCREEN, WOC



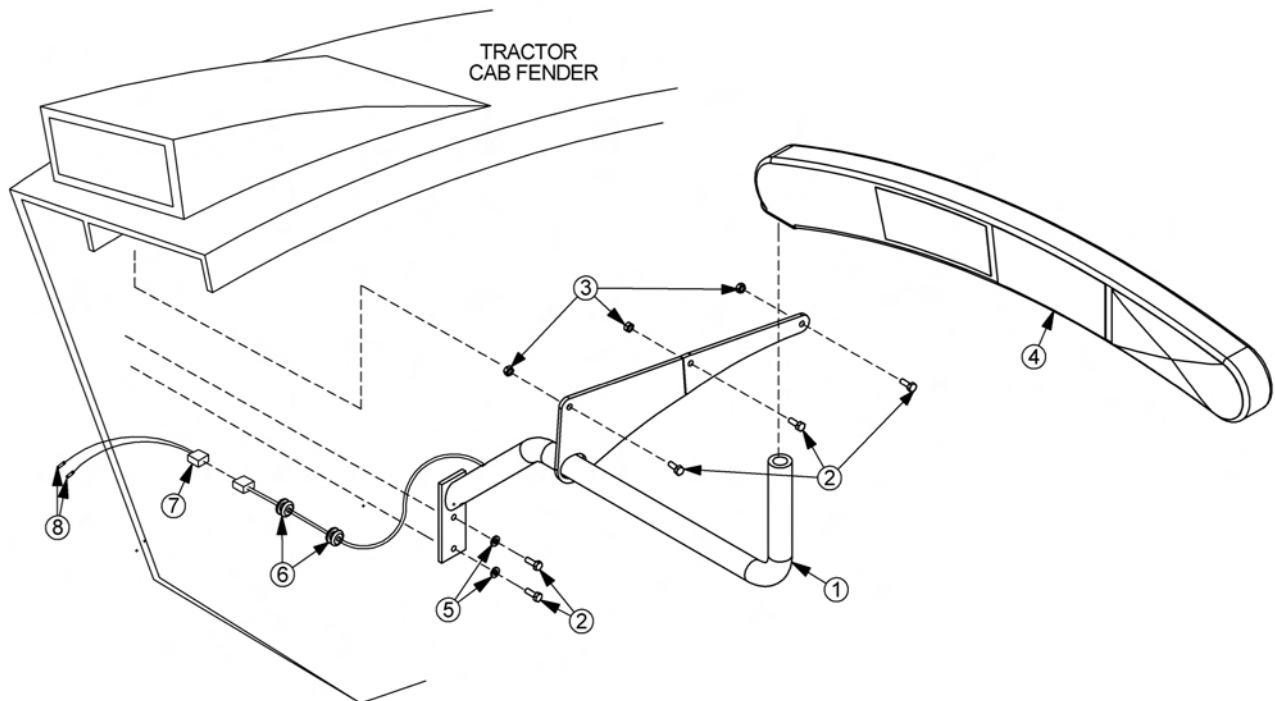
SAFETY SCREEN, WOC

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 34791 | 1 | SAFETY SCREEN BRACKET,LOWER |
| 2 | 32654 | 1 | SAFETY SCREEN BRACKET,UPPER |
| 3 | 32646 | 1 | SAFETY SCREEN ASSEMBLY |
| 4 | 32637 | 1 | SAFETY SCREEN |
| 5 | 32638 | 1 | LEXAN WINDOW |
| 6 | 21581 | 25 | CAPSCREW,5/16" X 1 1/4" NC |
| 7 | 22015 | 25 | FLATWASHER,5/16" |
| 8 | 21987 | 25 | LOCKWASHER,5/16" |
| 9 | 21575 | 25 | HEX NUT,5/16" NC |
| 10 | 21725 | 6 | HEX NUT,1/2" NC |
| 11 | 21990 | 6 | LOCKWASHER,1/2" |
| 12 | 21731 | 6 | CAPSCREW,1/2" X 1 1/2" NC |
| 13 | 21789 | 1 | CAPSCREW,5/8" X 3 1/2" NC |
| 14 | 21992 | 3 | LOCKWASHER,5/8" |
| 15 | 21775 | 3 | HEX NUT,5/8" NC |
| 16 | 21783 | 2 | CAPSCREW,5/8" X 2" |

SAFETY LIGHT OPTION

1. Install marker light asy onto the mounting bracket, running wires inside bracket tube.
2. Remove and retain panel under right rear fender that protects wiring.
3. Remove and discard back three screws and clips securing the right rear fender to the cab.
4. Install mtg. bracket to points in previous step with three 1/4" x 3/4"NC bolts and nylock nuts.
5. Using the mounting bracket as a template to drill two holes (13/64 dia.) and tap(1/4"NC) in the wheel well (Note: Use caution not to drill into the filter housing located behind the cab).
6. Secure bottom of mounting Bracket to wheel well with two 1/4" x 3/4"NC bolts and lockwashers.
7. Next remove the top cover of the tractor cab.
8. Drill two holes 5/8" dia, one in the fender under the air duct at the right rear corner of the cab and the other at the right rear corner of the cab just inside the air duct.
9. Install grommets in the 5/8 " dia holes.
10. Route wire from mounting bracket into the area that will be covered by the panel removed in step 2, then through grommets and up into area above cab, install wires ends into connector shell and close strain relief (Note: Green wire to green wire when mated with adapter harness).
11. Splice the green wire from the adapter harness into the purple wire coming from right rear hazard light using heat shrink butt connector.
12. Splice the black wire from the adapter harness into the black wire coming from right rear hazard light using heat shrink butt connector.
13. Connect the adapter harness to the marker light harness.
14. Test for proper operation, the marker light should flash with hazards & right turn signal but should burn steady when left turn signal is in use.
15. Reinstall top cover of tractor cab and panel in fender to protect wiring.

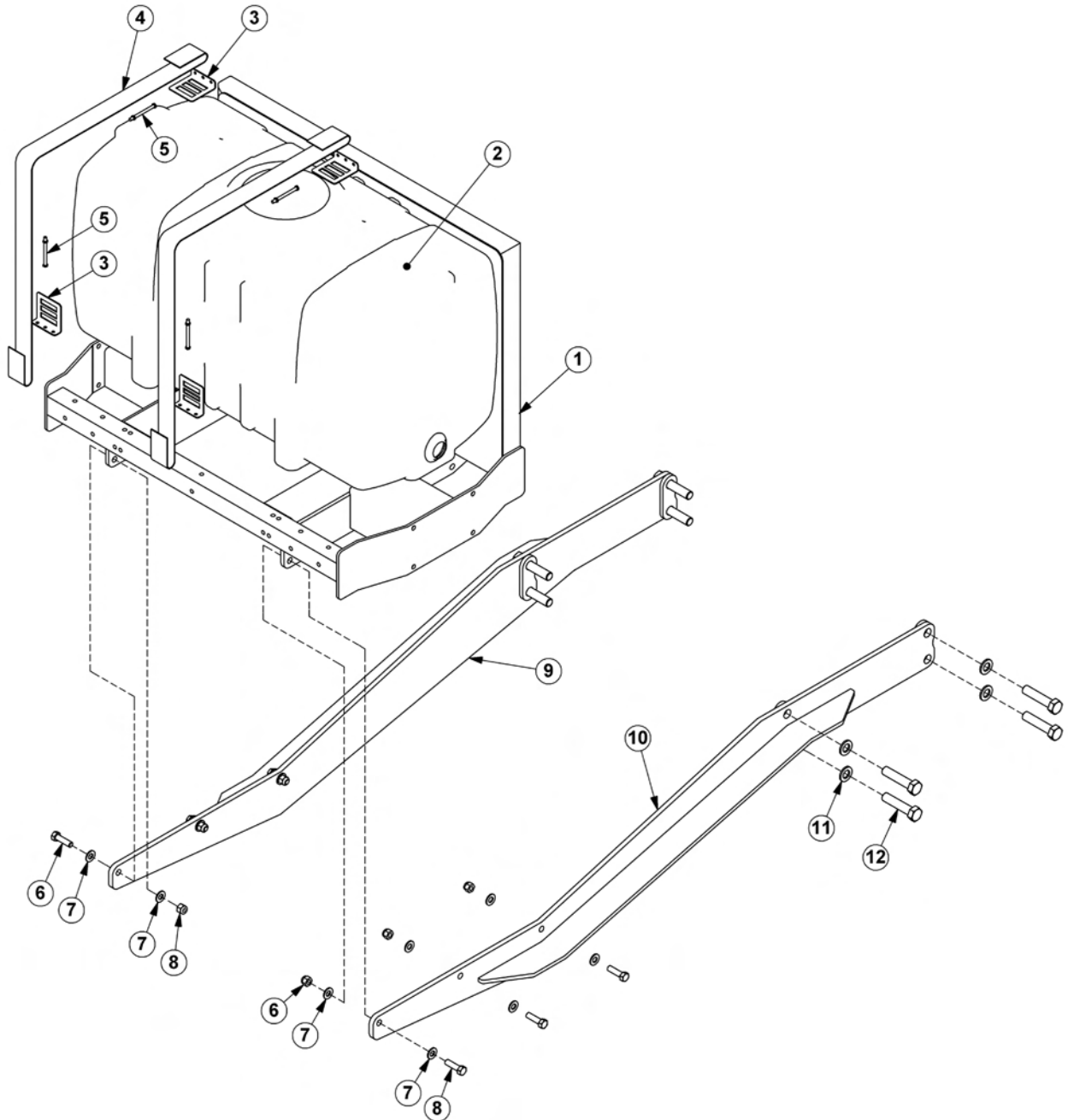


SAFETY LIGHT OPTION

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 06200420 | - | SAFETY LIGHT KIT (ITEMS 1 THRU 6,8 & 9) |
| 1 | 34800 | 1 | MOUNT,ASAE 279.11 |
| 2 | 21529 | 5 | CAPSCREW,1/4" X 3/4",NC |
| 3 | 21527 | 3 | NYLOCK NUT,1/4",NC |
| 4 | 34859 | 1 | MARKER LIGHT ASSY |
| 5 | 21986 | 2 | LOCKWASHER,1/4" |
| 6 | 31592 | 2 | GROMMET,RUBBER,5/16" X 13/16" |
| 7 | ----- | 1 | ADAPTER,HARNESS |
| 8 | 35164 | 2 | CONNECTOR,BUTT,H-SHRINK |
| 9 | 6T1824 | 2 | ZIP TIE (NOT SHOWN) |

FRONT 50 GALLON TANK MOUNT

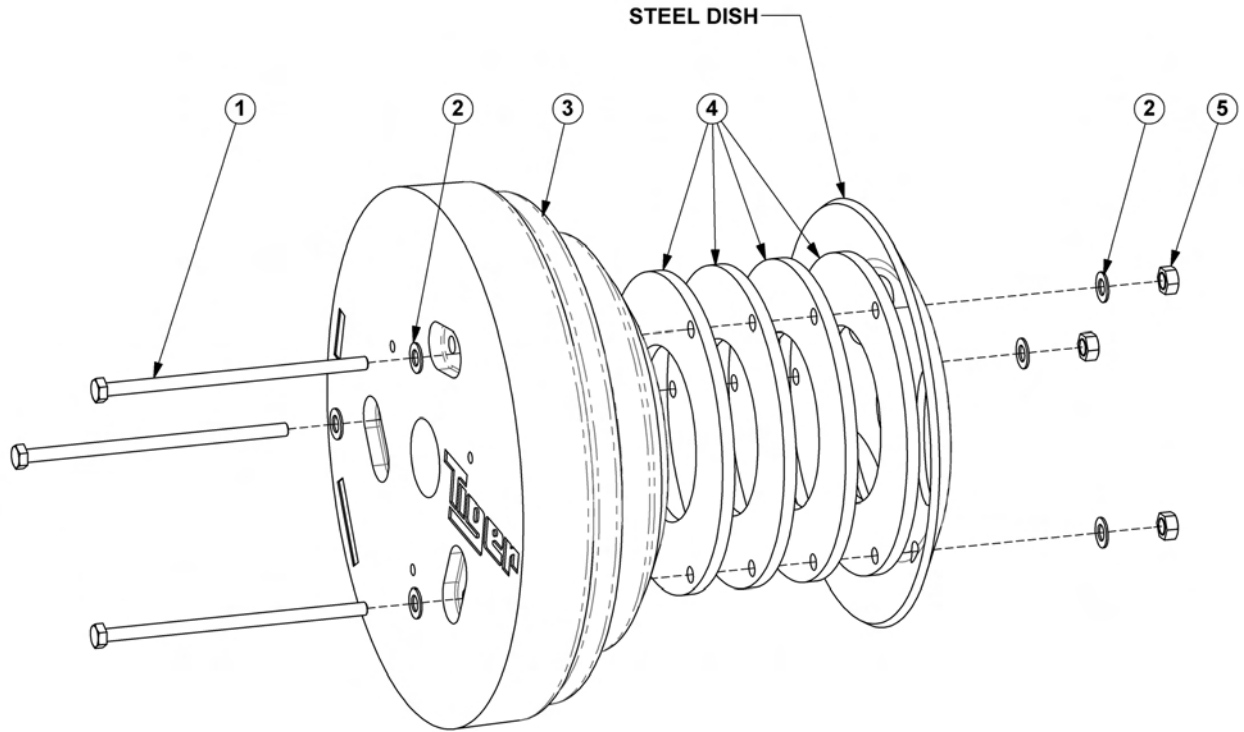


FRONT 50 GALLON TANK MOUNT

Continued...

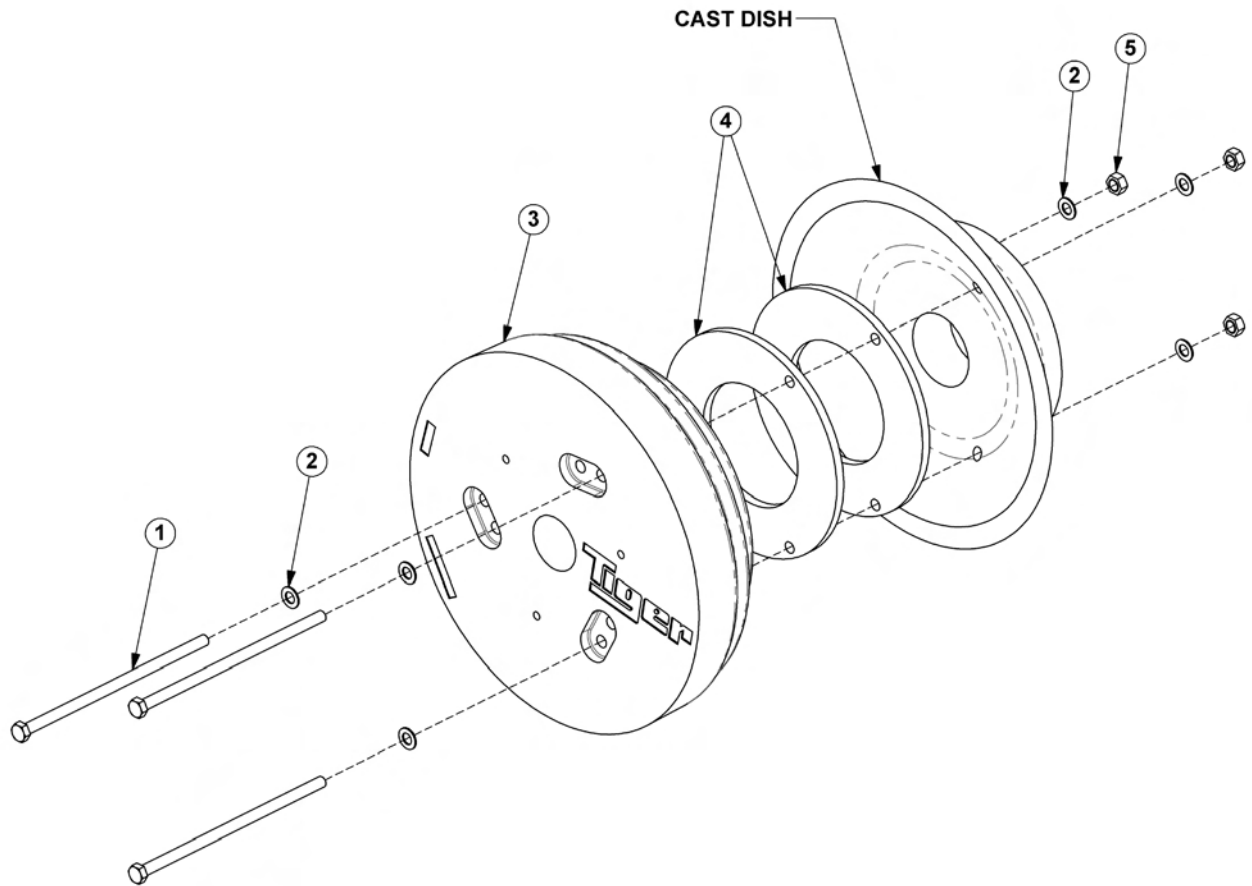
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 06370204 | 1 | MNT,TANK,FRNT,50 GALLON |
| 2 | 06520342 | 1 | TANK,50 GALLON |
| 3 | 06520343 | 4 | ANCHOR,STRAP |
| 4 | 06520345 | 2 | STRAP |
| 5 | 06520344 | 4 | BOLT & NUT,STRAP,TANK |
| 6 | 21727 | 6 | NYLOCK NUT,1/2",NC |
| 7 | 06533004 | 12 | FLATWASHER,1/2",SAE |
| 8 | 21732 | 6 | CAPSCREW,1/2" X 1-3/4",NC |
| 9 | 06370203 | 1 | MNT,TANK,RH |
| 10 | 06370202 | 1 | MNT,TANK,LH |
| 11 | 33880 | 8 | FLATWASHER,3/4",SAE |
| 12 | 30708 | 8 | CAPSCREW,20MM X 90MM,2.5P |

WHEEL WEIGHT - STEEL DISH



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

WHEEL WEIGHT - CAST DISH



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 1 | 06530219 | 3 | CAPSCREW, 7/8" X 19-1/2", NC, GR8 |
| 2 | 06533000 | 6 | FLATWASHER, 7/8", GR8 |
| 3 | 32615 | 1 | WHEEL WEIGHT, 1700# |
| 4 | 06400410 | 2 | SPACER |
| 5 | 06531000 | 3 | HEX NUT, 7/8", NC, GR8 |

NOTES

COMMON BENGAL BOOM

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COMMON BENGAL

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.

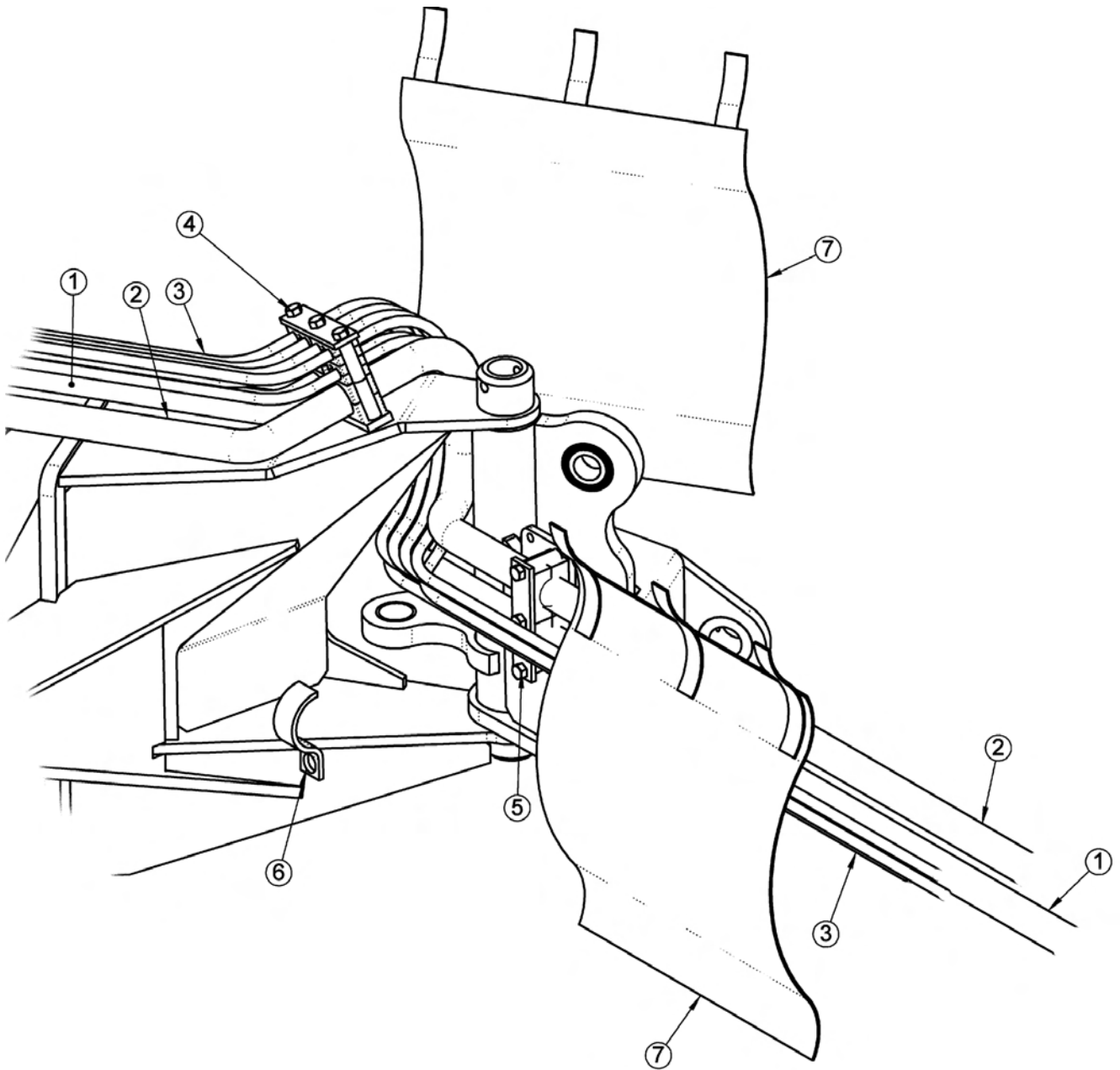


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

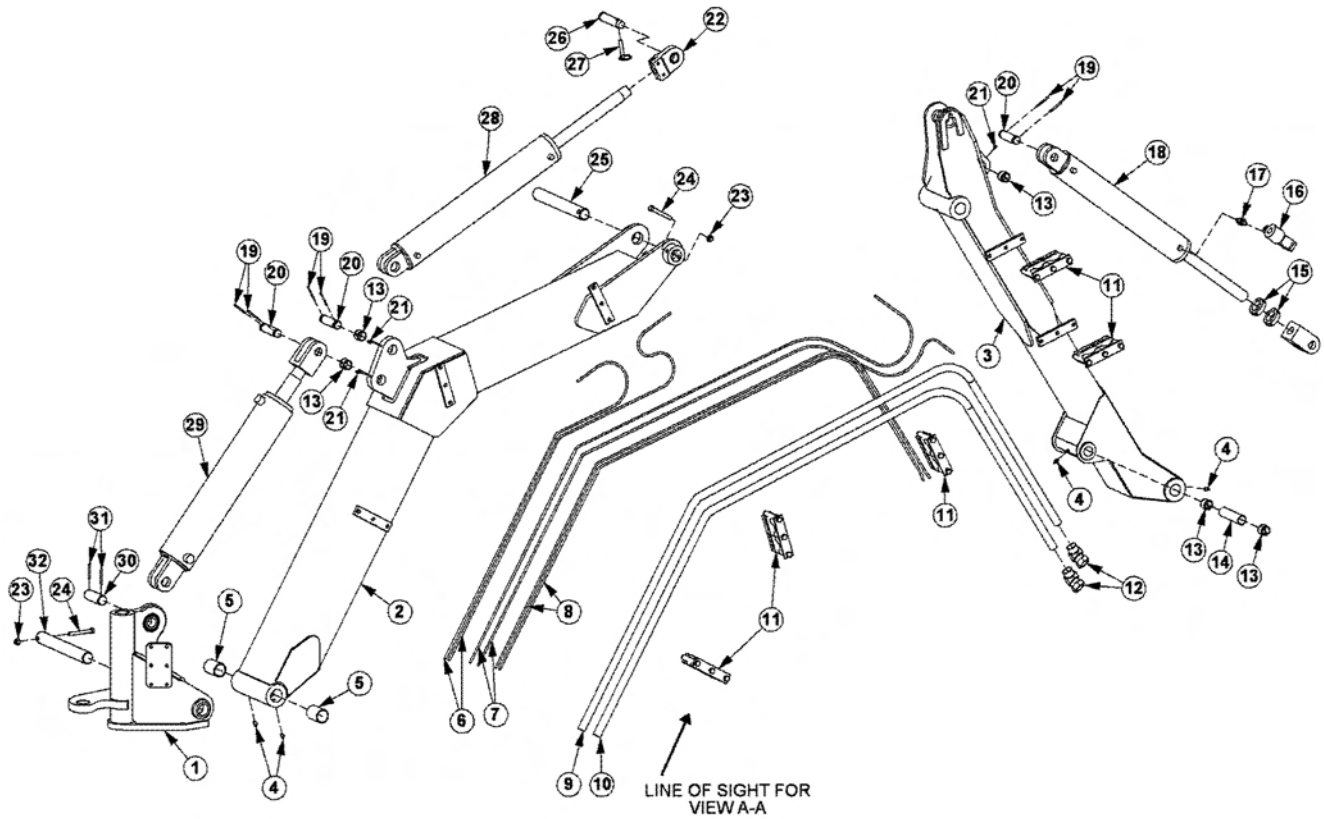
BOOM HOSE ROUTING



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

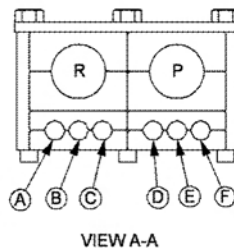
COMMON BENGAL

BOOM ASSY - BENGAL 18



NOTES:

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



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

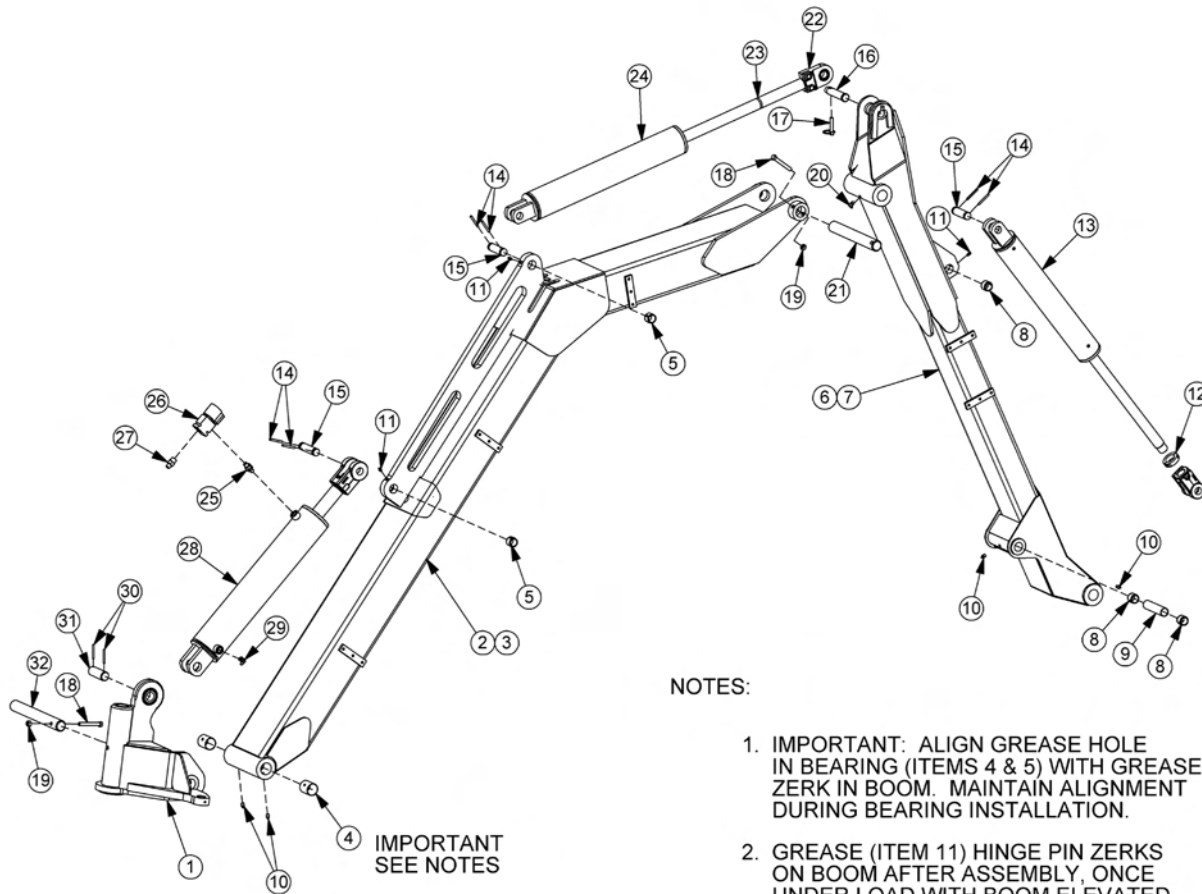
BOOM ASSY - BENGAL 18

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | ----- | - | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| --- | 06700167 | 1 | MAIN BOOM ASSY |
| 2 | 06310111 | 1 | MAIN BOOM WELDMENT |
| --- | 06700168 | 1 | SECONDARY BOOM ASSY |
| 3 | 06310112 | 1 | SECONDARY BOOM WELDMENT |
| 4 | 6T3211 | 4 | GREASE ZERK,1/8" |
| 5 | 32321 | 2 | BUSHING,1-1/2" X 2" |
| 6 | 06500499 | 2 | HOSE,1/4" X 50" |
| 7 | 06500500 | 2 | HOSE,1/4" X 108" |
| 8 | 06500502 | 2 | HOSE,1/4" X 100" |
| 9 | 06500497 | 1 | HOSE,1" X 100" |
| 10 | 06500498 | 1 | HOSE,1" X 96" |
| 11 | 06505116 | 5 | CLAMP KIT |
| 12 | 24724 | 2 | SWIVEL,1MJ X 1FJX45 (FLAIL MOWERS ONLY) |
| 13 | TB3010 | 5 | BUSHING |
| 14 | TB1035 | 1 | BUSHING,SPACER |
| 15 | 35312 | 2 | SET COLLAR (ONLY ONE USED FOR ROTARY DECK) |
| 16 | 06510050 | 1 | ELECTRIC TRAVEL LOCK |
| 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 | 3 | PIN,1" |
| 21 | 6T3207 | 3 | 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 | 06420022 | 1 | PIN,1-1/2" |

COMMON BENGAL

BOOM ASSY - BENGAL 22 - SIDE STOW



NOTES:

1. IMPORTANT: ALIGN GREASE HOLE IN BEARING (ITEMS 4 & 5) WITH GREASE ZERK IN BOOM. MAINTAIN ALIGNMENT DURING BEARING INSTALLATION.
2. GREASE (ITEM 11) HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.

BOOM ASSY - BENGAL 22 - SIDE STOW

Continued...

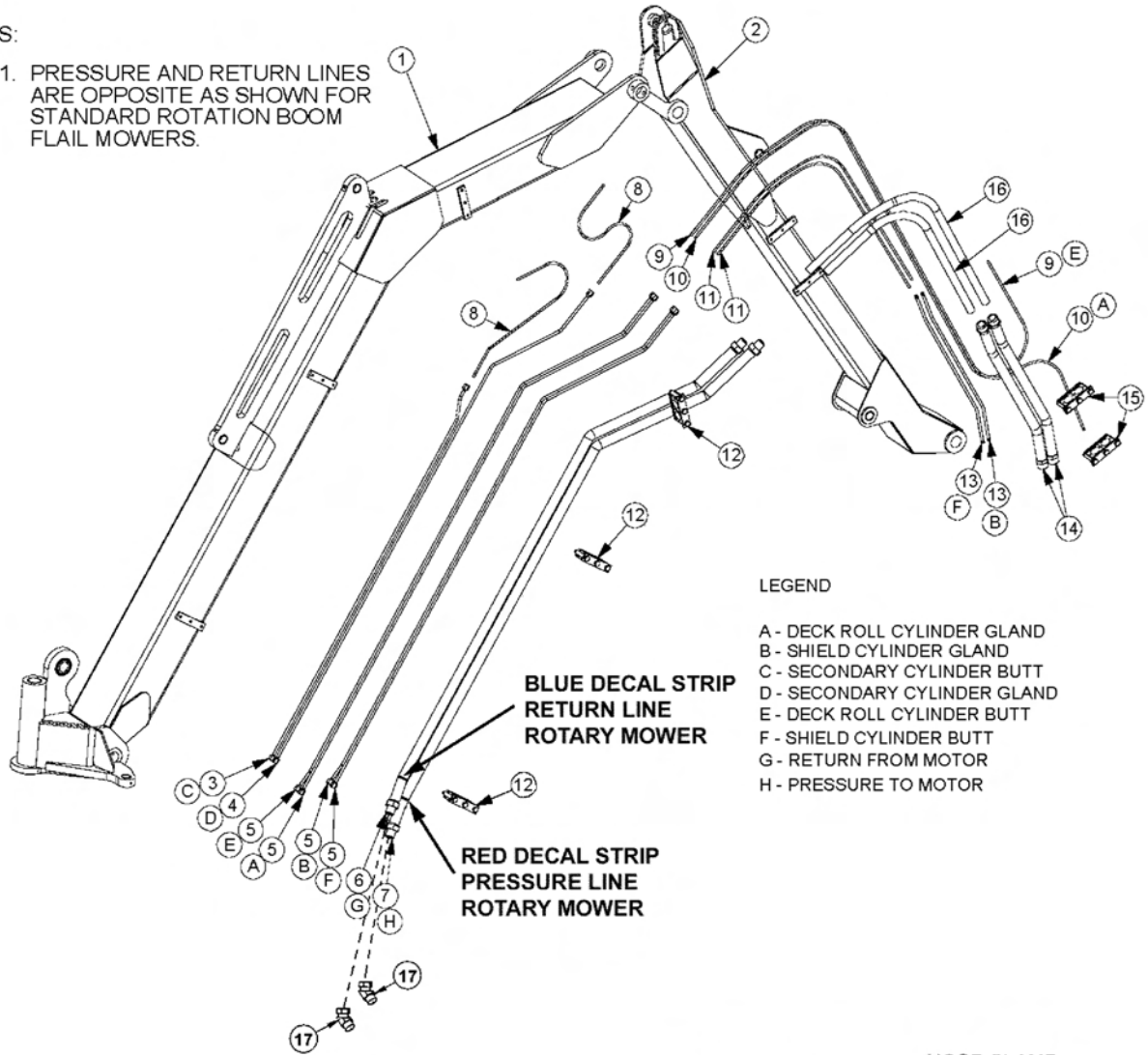
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2 | 24512 | 1 | MAIN BOOM ARM ASSY |
| 3 | TB1002D | 1 | MAIN BOOM WLDMENT |
| 4 | 32321 | 2 | BUSHING, 1-1/2"ID X 2" |
| 5 | TB3010 | 2 | BUSHING, 1"ID |
| 6 | 24517 | 1 | SECONDARY BOOM ARM ASSY |
| --- | 06700098 | 1 | SHORT SEC BOOM ARM ASSY (FOR 60" RTRY) |
| 7 | TB1001G | 1 | SECONDARY BOOM WLDMENT |
| 8 | TB3010 | 3 | BUSHING, 1"ID |
| 9 | TB1035 | 1 | BUSHING,SPACER |
| 10 | 6T3211 | 4 | GREASE ZERK,1/8" |
| 11 | 6T3207 | 3 | GREASE ZERK,1/4 |
| 12 | 35312 | 1 | SET COLLAR |
| 13 | 06501023 | 1 | CYLINDER,3" X 18" |
| 14 | 06537021 | 6 | ROLL PIN,5MM |
| 15 | TB1033 | 3 | PIN,1" X 4" |
| 16 | TB1036 | 1 | PIN,1" X 4-11/16" |
| 17 | TF1143 | 1 | PIN,LYNCH |
| 18 | 21688 | 2 | CAPSCREW,7/16" X 3-1/4",NC |
| 19 | 21677 | 2 | NYLOCK NUT,7/16",NC |
| 20 | 6T3210 | 1 | GREASE ZERK,1/8" X 90° |
| 21 | TB1025 | 1 | PIN,1-1/2" X 12" |
| 22 | TB3033 | 1 | CLEVIS,SPHERICAL |
| 23 | 22076 | 1 | SPACER,DECK LIFT CYL |
| 24 | 06501024 | 1 | CYLINDER,3-1/2" X 20" |
| 25 | 31329 | 1 | ADAPTER,1/2ORB X 1/2ORB ADJ |
| 26 | 06510050 | 1 | TRAVEL LOCK,METRIPACK COIL |
| 27 | 33271 | 1 | ADAPTER,1/2ORB X 1/2ORB ADJ |
| 28 | 06501022 | 1 | CYLINDER,4" X 20" |
| 29 | 32810 | 1 | ELBOW,1/2ORB X 3/8MJ90 ADJ |
| 30 | TB1023 | 2 | ROLL PIN,7/32" |
| 31 | 06420100 | 1 | PIN,1-1/4" X 3-5/8" |
| 32 | TB3013C | 1 | PIN,1-1/2" X 12-3/4" |

COMMON BENGAL

BOOM HYD ASSY - BENGAL 22 - SIDE STOW

NOTES:

1. PRESSURE AND RETURN LINES ARE OPPOSITE AS SHOWN FOR STANDARD ROTATION BOOM FLAIL MOWERS.



LEGEND

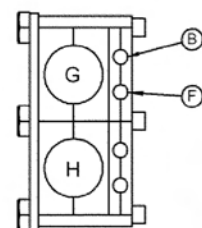
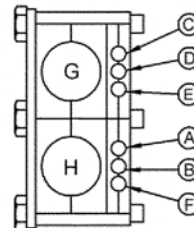
- A - DECK ROLL CYLINDER GLAND
- B - SHIELD CYLINDER GLAND
- C - SECONDARY CYLINDER BUTT
- D - SECONDARY CYLINDER GLAND
- E - DECK ROLL CYLINDER BUTT
- F - SHIELD CYLINDER BUTT
- G - RETURN FROM MOTOR
- H - PRESSURE TO MOTOR

**BLUE DECAL STRIP
RETURN LINE
ROTARY MOWER**

**RED DECAL STRIP
PRESSURE LINE
ROTARY MOWER**

HOSE CLAMP
ITEM 12

HOSE CLAMP
ITEM 15



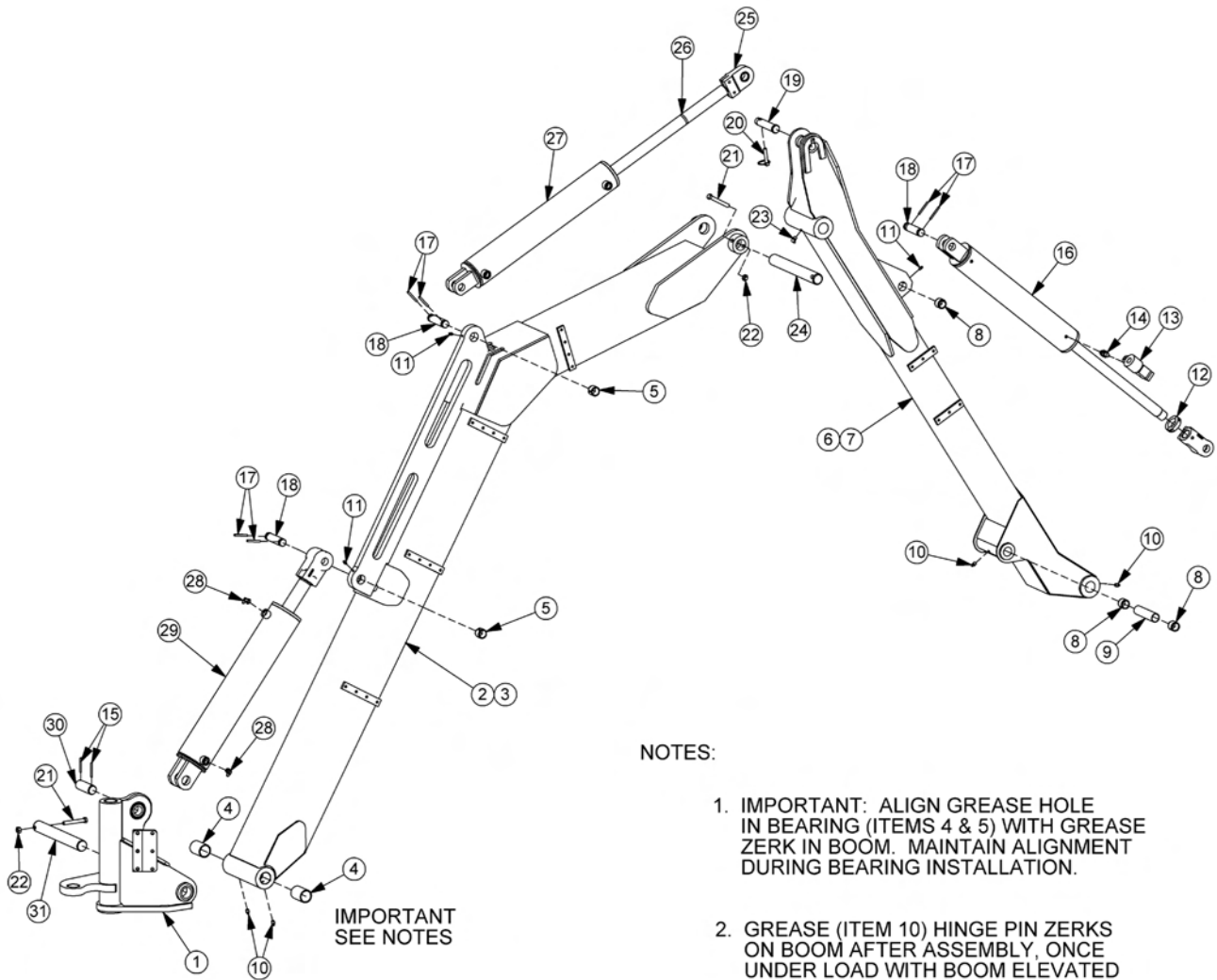
BOOM HYD ASSY - BENGAL 22 - SIDE STOW

Continued...

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

COMMON BENGAL

BOOM ASSY - BENGAL 22 - OPEN STOW,3PS



BOOM ASSY - BENGAL 22 - OPEN STOW,3PS

Continued...

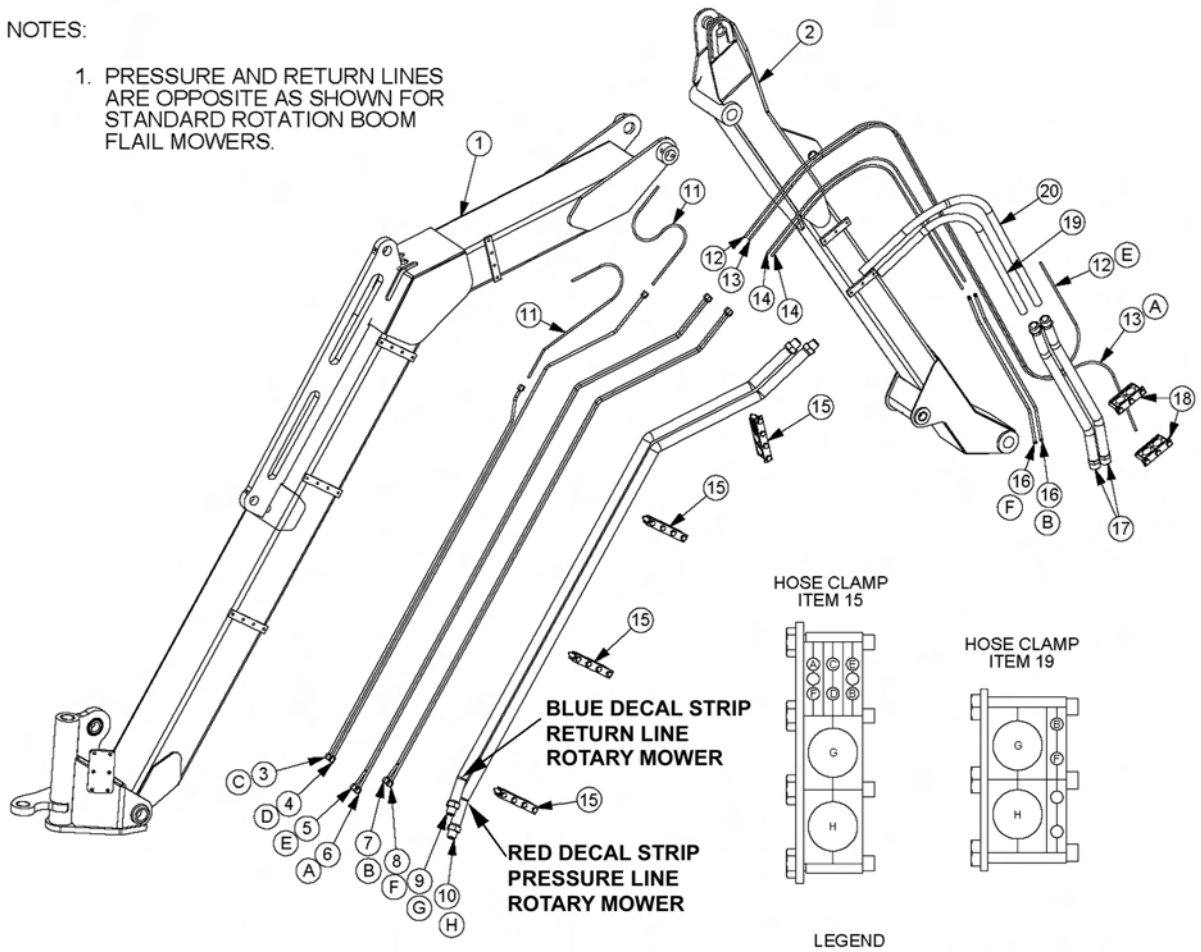
| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---|
| 1 | ----- | - | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2 | 06700031 | 1 | MAIN BOOM ARM ASSY |
| 3 | 06310013 | 1 | MAIN BOOM WLDMENT |
| 4 | 32321 | 2 | BUSHING, 1-1/2"ID X 2" |
| 5 | TB3010 | 2 | BUSHING, 1"ID |
| 6 | 24517 | 1 | SECONDARY BOOM ARM ASSY |
| 7 | TB1001G | 1 | SECONDARY BOOM WLDMENT |
| 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 | TB1023 | 2 | ROLLPIN,7/32" |
| 16 | 06501023 | 1 | CYLINDER,3" X 18" |
| 17 | 06537021 | 6 | ROLL PIN,5MM |
| 18 | TB1033 | 3 | 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 | TB3033 | 1 | CLEVIS,SPHERICAL |
| 26 | 22076 | 1 | SPACER,DECK LIFT CYL |
| 27 | 06501024 | 1 | CYLINDER,3-1/2" X 20" |
| 28 | 32810 | 2 | ELBOW,1/2ORB X 3/8MJ90 ADJ |
| 29 | 06501022 | 1 | CYLINDER,4" X 20" |
| 30 | 06420100 | 1 | PIN,1-1/4" X 3-5/8" |
| 31 | 06420022 | 1 | PIN,1-1/2" X 12-3/4" |

COMMON BENGAL

BOOM HYD ASSY - BENGAL 22 - OPEN STOW,3PS

NOTES:

1. PRESSURE AND RETURN LINES ARE OPPOSITE AS SHOWN FOR STANDARD ROTATION BOOM FLAIL MOWERS.



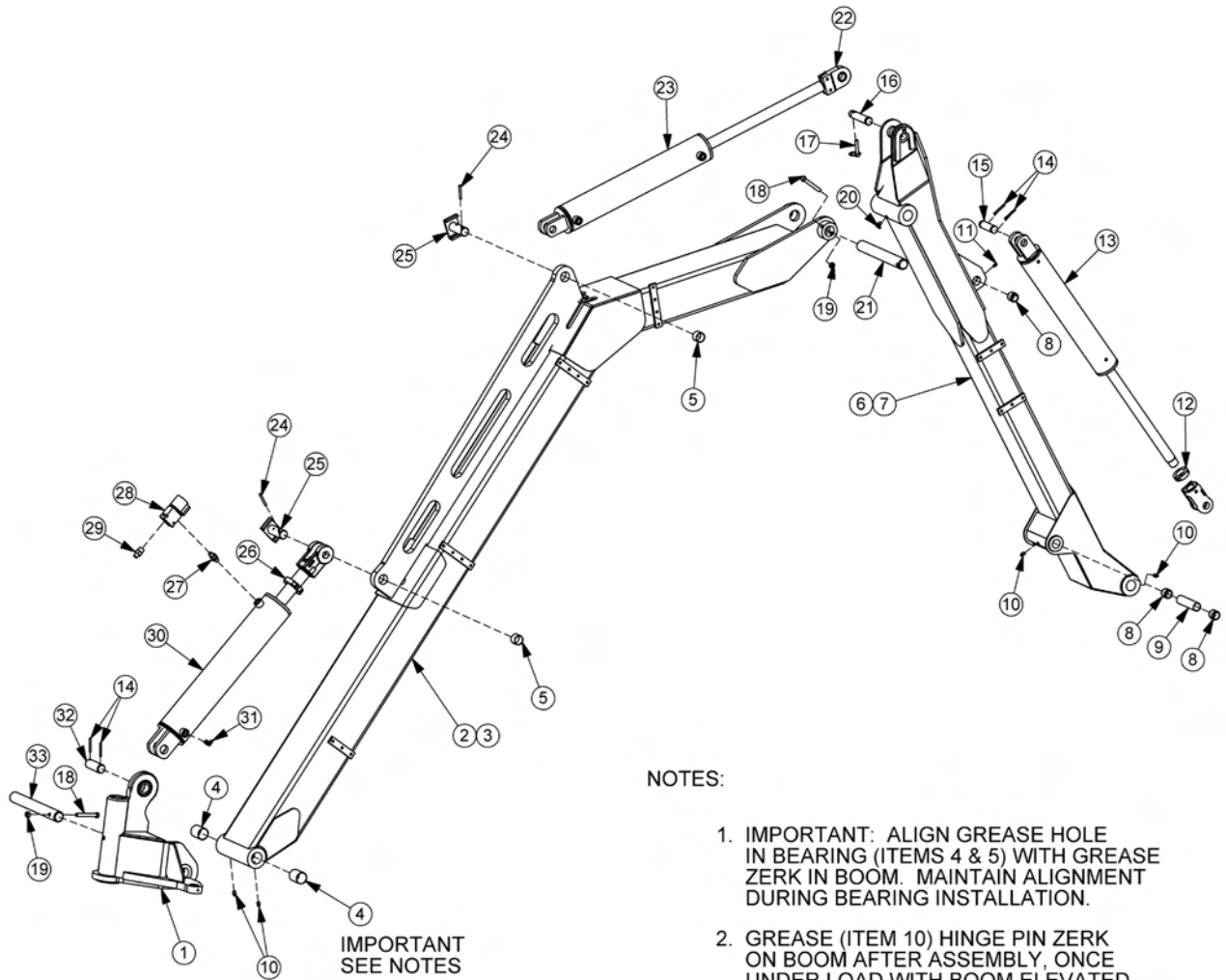
BOOM HYD ASSY - BENGAL 22 - OPEN STOW,3PS

Continued...

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

COMMON BENGAL

BOOM ASSY - BENGAL 24 - SIDE STOW



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 ZERK ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.

BOOM ASSY - BENGAL 24 - SIDE STOW

Continued...

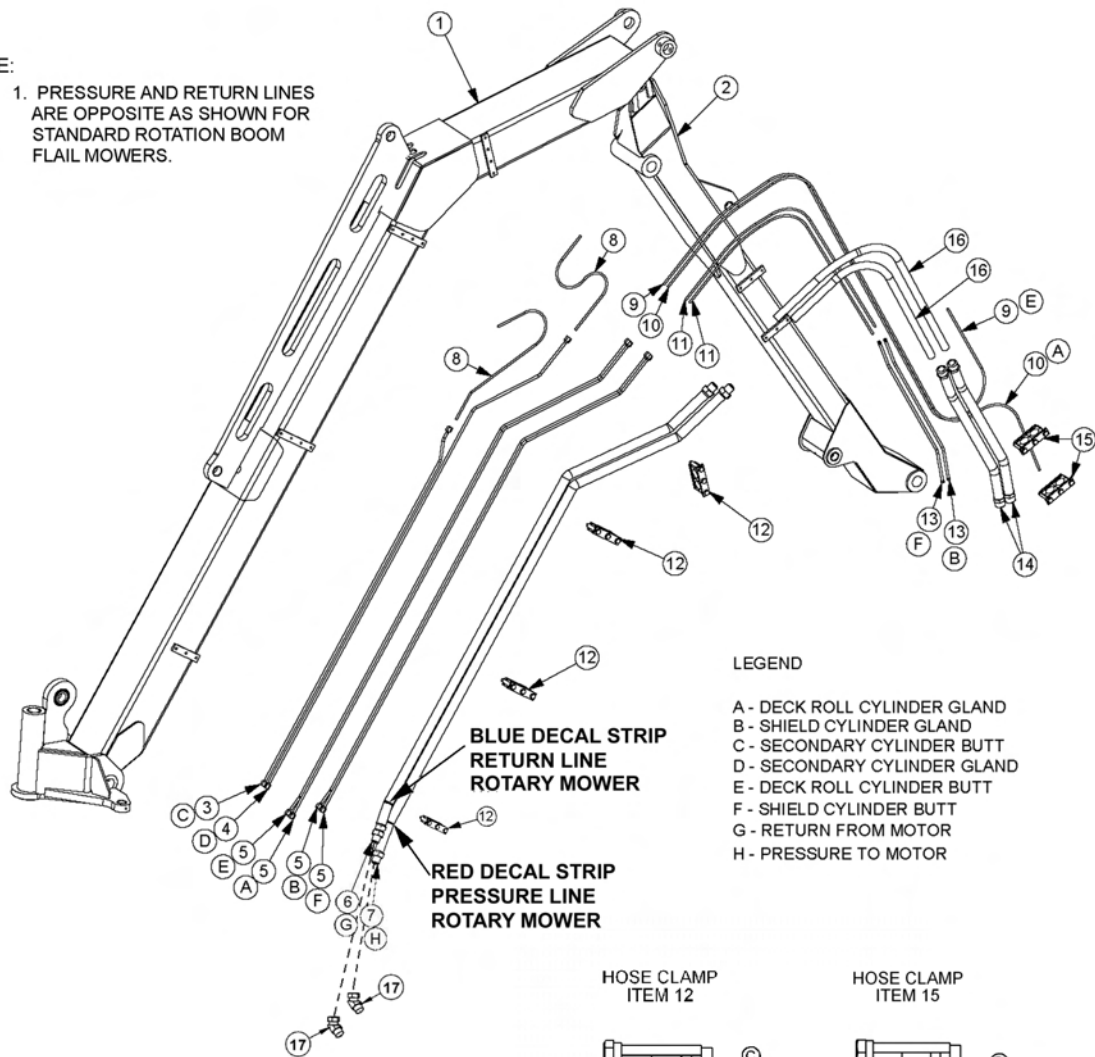
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2 | 31845 | 1 | MAIN BOOM ARM ASSY |
| 3 | 30073D | 1 | MAIN BOOM WLDMNT |
| 4 | 32321 | 2 | BUSHING, 1-1/2"ID X 2" |
| 5 | TB1044 | 2 | BUSHING, 1-1/4"ID |
| 6 | 24517 | 1 | SECONDARY BOOM ARM ASSY |
| 7 | 52294E | 1 | SECONDARY BOOM WLDMNT |
| 8 | TB3010 | 3 | BUSHING, 1"ID |
| 9 | TB1035 | 1 | BUSHING SPACER |
| 10 | 6T3211 | 4 | GREASE ZERK, 1/8" X STR |
| 11 | 6T3207 | 1 | GREASE ZERK, 1/4" |
| 12 | 35312 | 1 | SET COLLAR, 2PC, 1-3/8"ID |
| 13 | 06501023 | 1 | CYLINDER, 3" X 18", WELDED |
| 14 | 06537021 | 4 | ROLLPIN, 5MM |
| 15 | TB1033 | 1 | PIN, CLEVIS, 1" X 3-1/2" |
| 16 | TB1036 | 1 | PIN, SEC BOOM SWIV, 1" X 4-11/16" |
| 17 | TF1143 | 1 | PIN, LYNCH, 7/16" X 2" |
| 18 | 21688 | 2 | CAPSCREW, 7/16" X 3-1/4", NC |
| 19 | 21675 | 2 | HEX NUT, 7/16", NC |
| 20 | 6T3210 | 1 | GREASE ZERK, 1/8" X 90° |
| 21 | TB1025 | 1 | PIN, SEC BOOM SWIV, 1-1/2" X 12" |
| 22 | TB3033 | 1 | CLEVIS, SPHERICAL |
| 23 | 06501022 | 1 | CYLINDER, 4" X 20", WELDED |
| 24 | 6T3014 | 2 | ROLLPIN, 1/4" X 2" |
| 25 | TB1045B | 2 | PIN, CLEVIS, 1-1/4", GREASED |
| 26 | 06520222 | 1 | SPACER (OPEN STOW OR 3PNT STOW ONLY) |
| 27 | 31329 | 1 | ADAPTER, 1/2ORB X 1/2ORB ADJ |
| 28 | 06510050 | 1 | TRV LCK, METRIPACK COIL |
| 29 | 33271 | 1 | ADAPTER, 1/2MOR X 3/8MJ |
| 30 | 06501020 | 1 | CYLINDER, 5" X 20", WELDED |
| 31 | 32810 | 1 | ELBOW, 1/2ORB X 3/8MJ 90 ADJ |
| 32 | 06420053 | 1 | PIN, 1-1/4" X 3-5/8" |
| 33 | TB3013C | 1 | PIN, 1-1/2" X 12-3/4" |

COMMON BENGAL

BOOM HYD ASSY - BENGAL 24 - SIDE STOW

NOTE:

1. PRESSURE AND RETURN LINES ARE OPPOSITE AS SHOWN FOR STANDARD ROTATION BOOM FLAIL MOWERS.



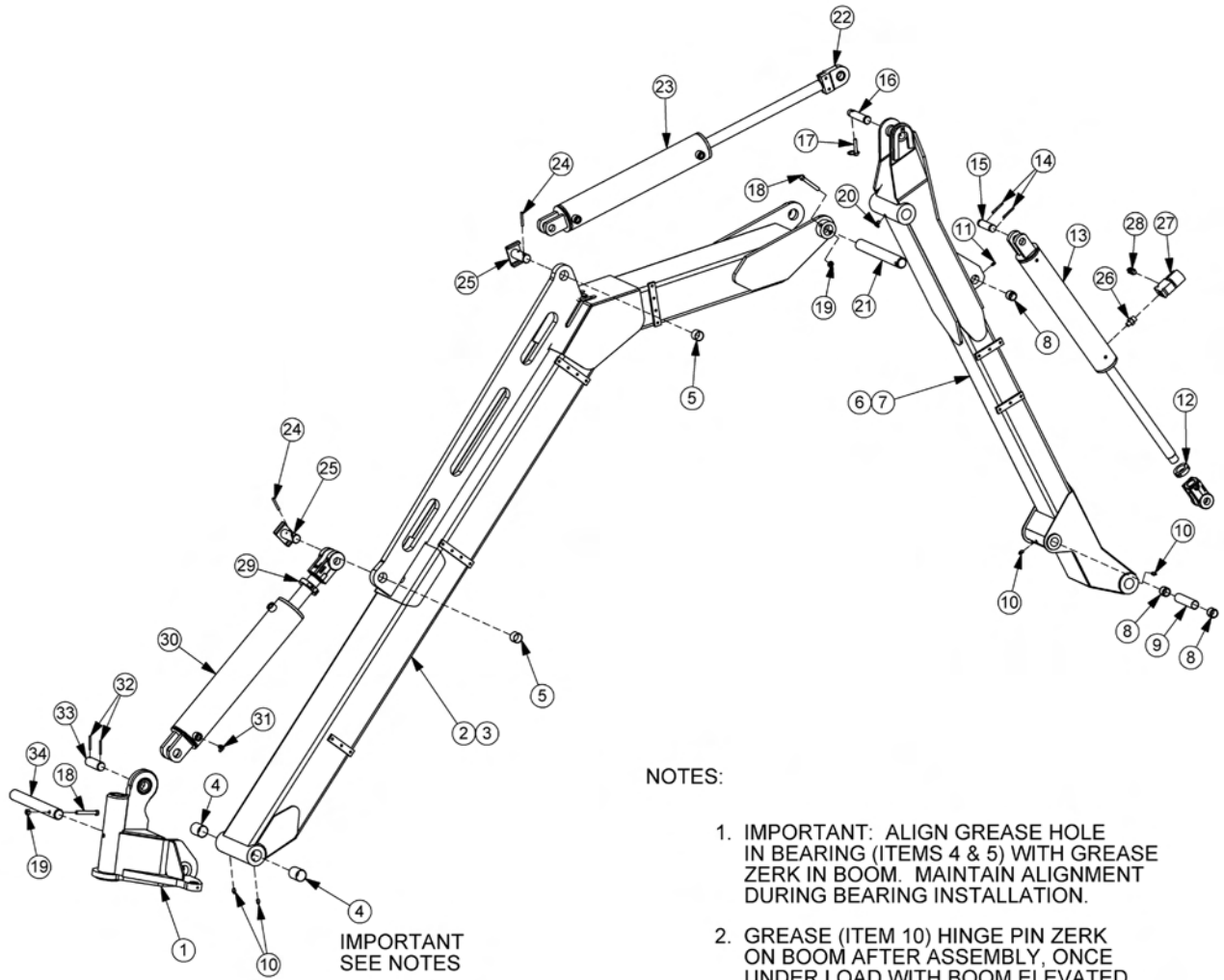
BOOM HYD ASSY - BENGAL 24 - SIDE STOW

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | ----- | - | MAIN BOOM *REFER TO BOOM ARM ASSEMBLY |
| 2 | ----- | - | SECONDARY BOOM *REFER TO BOOM ARM ASSEMBLY |
| 3 | 31234 | 1 | PRFRMD TUBE #304EXT |
| 4 | 31235 | 1 | PRFRMD TUBE #305EXT |
| 5 | 31233 | 4 | PRFRMD TUBE #307EXT |
| 6 | 30168 | 1 | PRFRMD TUBE, MAIN BOOM RETURN |
| 7 | 30167 | 1 | PRFRMD TUBE, MAIN BOOM PRESSURE |
| 8 | 34052 | 2 | HOSE,1/4 X 20 |
| 9 | 34051 | 1 | HOSE,1/4 X 63 |
| 10 | 34050 | 1 | HOSE,1/4 X 83 |
| 11 | 34104 | 2 | HOSE,1/4 X 42 |
| 12 | 33215 | 4 | TUBE CLAMP, MAIN BOOM |
| 13 | 34103 | 2 | TUBE,PRFRMD,SEC BOOM |
| 14 | 30169 | 2 | TUBE,PRFRMD,SEC BOOM,HP |
| 15 | 30111 | 2 | TUBE CLAMP, SEC BOOM |
| 16 | 24488 | 2 | HOSE,1 X 40 |
| 17 | 24724 | 2 | SWIVEL,1MJ X 1FJX45 |

COMMON BENGAL

BOOM ASSY - BENGAL 24 - OPEN STOW



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 ZERK ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.

BOOM ASSY - BENGAL 24 - OPEN STOW

Continued...

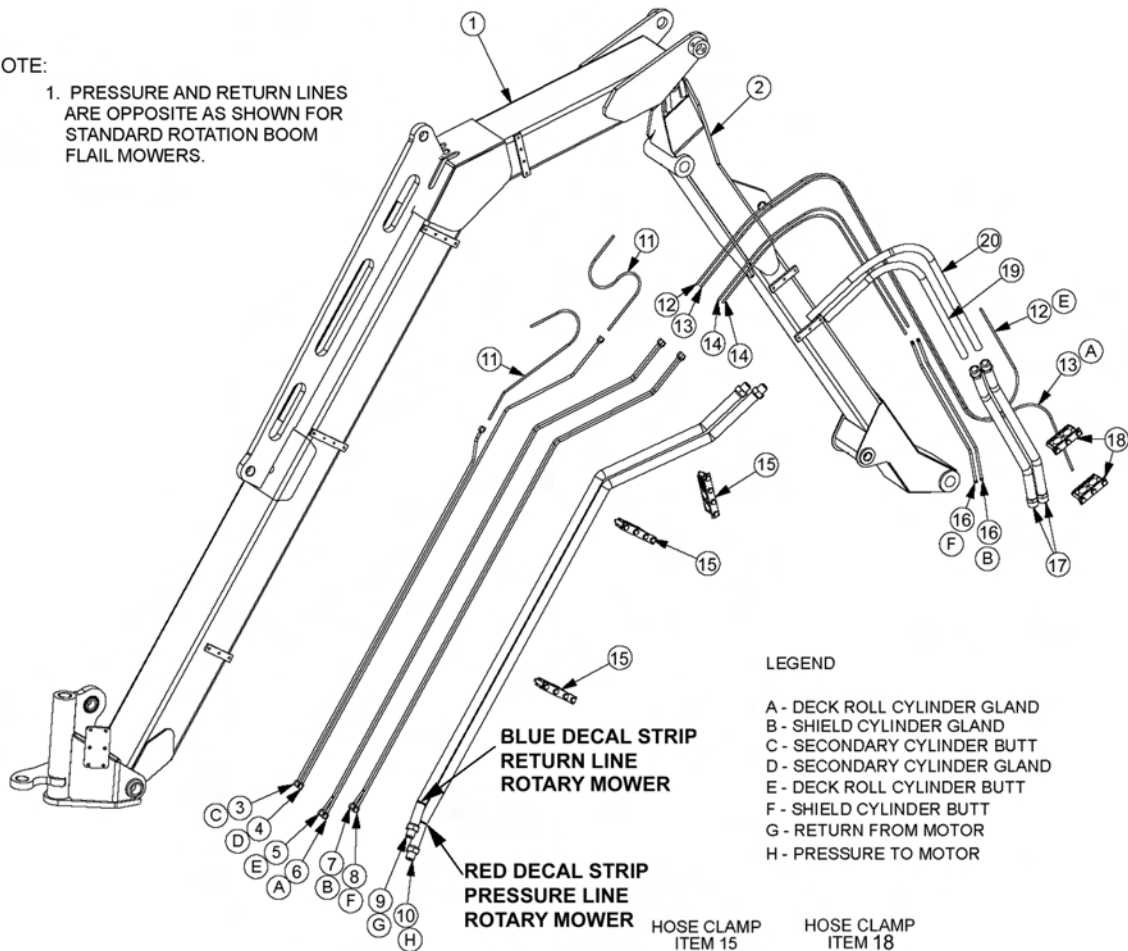
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT |
| 2 | 31845 | 1 | MAIN BOOM ARM ASSY |
| 3 | 30073D | 1 | MAIN BOOM WLDMNT |
| 4 | 32321 | 2 | BUSHING, 1-1/2"ID X 2" |
| 5 | TB1044 | 2 | BUSHING, 1-1/4"ID |
| 6 | 24517 | 1 | SECONDARY BOOM ARM ASSY |
| 7 | TB1001G | 1 | SECONDARY BOOM WLDMNT |
| 8 | TB3010 | 3 | BUSHING, 1"ID |
| 9 | TB1035 | 1 | BUSHING SPACER |
| 10 | 6T3211 | 4 | GREASE ZERK, 1/8" X STR |
| 11 | 6T3207 | 1 | GREASE ZERK, 1/4" |
| 12 | 35312 | 1 | SET COLLAR, 2PC, 1-3/8"ID |
| 13 | 06501023 | 1 | CYLINDER, 3" X 18", WELDED |
| 14 | 06537021 | 2 | ROLLPIN, 5MM |
| 15 | TB1033 | 1 | PIN, CLEVIS, 1" X 3-5/8" |
| 16 | TB1036 | 1 | PIN,SEC BOOM SWIV, 1" X 4-11/16" |
| 17 | TF1143 | 1 | PIN, LYNCH, 7/16" X 2" |
| 18 | 21688 | 2 | CAPSCREW, 7/16" X 3-1/4", NC |
| 19 | 21677 | 2 | NYLOCK NUT, 7/16", NC |
| 20 | 6T3210 | 1 | GREASE ZERK, 1/8" X 90° |
| 21 | TB1025 | 1 | PIN, SEC BOOM SWIV, 1-1/2" X 12" |
| 22 | TB3033 | 1 | CLEVIS,SPHERICAL |
| 23 | 06501022 | 1 | CYLINDER, 4" X 20", WELDED |
| 24 | 6T3014 | 2 | ROLLPIN, 1/4" X 2" |
| 25 | TB1045B | 2 | PIN, CLEVIS, 1-1/4", GREASED |
| 26 | 31329 | 1 | ADAPTER, 1/2ORB X 1/2ORB ADJ |
| 27 | 06510050 | 1 | TRV LCK, METRIPACK COIL |
| 28 | 33271 | 1 | ADAPTER, 1/2MOR X 3/8MJ |
| 29 | 06520222 | 1 | SPACER (OPEN STOW OR 3PNT STOW ONLY) |
| 30 | 06501020 | 1 | CYLINDER, 5" X 20", WELDED |
| 31 | 32810 | 1 | ELBOW,1/2ORB X 3/8MJ 90 ADJ |
| 32 | TB1023 | 2 | ROLLPIN, 7/32" X 2" |
| 33 | 06420100 | 1 | PIN, 1-1/4" X 3-11/16" |
| 34 | TB3013C | 1 | PIN, 1-1/2" X 12-3/4" |

COMMON BENGAL

BOOM HYD ASSY - BENGAL 24 - OPEN STOW,3PS

NOTE:

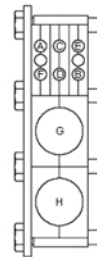
1. PRESSURE AND RETURN LINES ARE OPPOSITE AS SHOWN FOR STANDARD ROTATION BOOM FLAIL MOWERS.



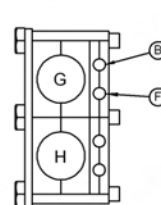
LEGEND

- A - DECK ROLL CYLINDER GLAND
- B - SHIELD CYLINDER GLAND
- C - SECONDARY CYLINDER BUTT
- D - SECONDARY CYLINDER GLAND
- E - DECK ROLL CYLINDER BUTT
- F - SHIELD CYLINDER BUTT
- G - RETURN FROM MOTOR
- H - PRESSURE TO MOTOR

HOSE CLAMP
ITEM 15



HOSE CLAMP
ITEM 18



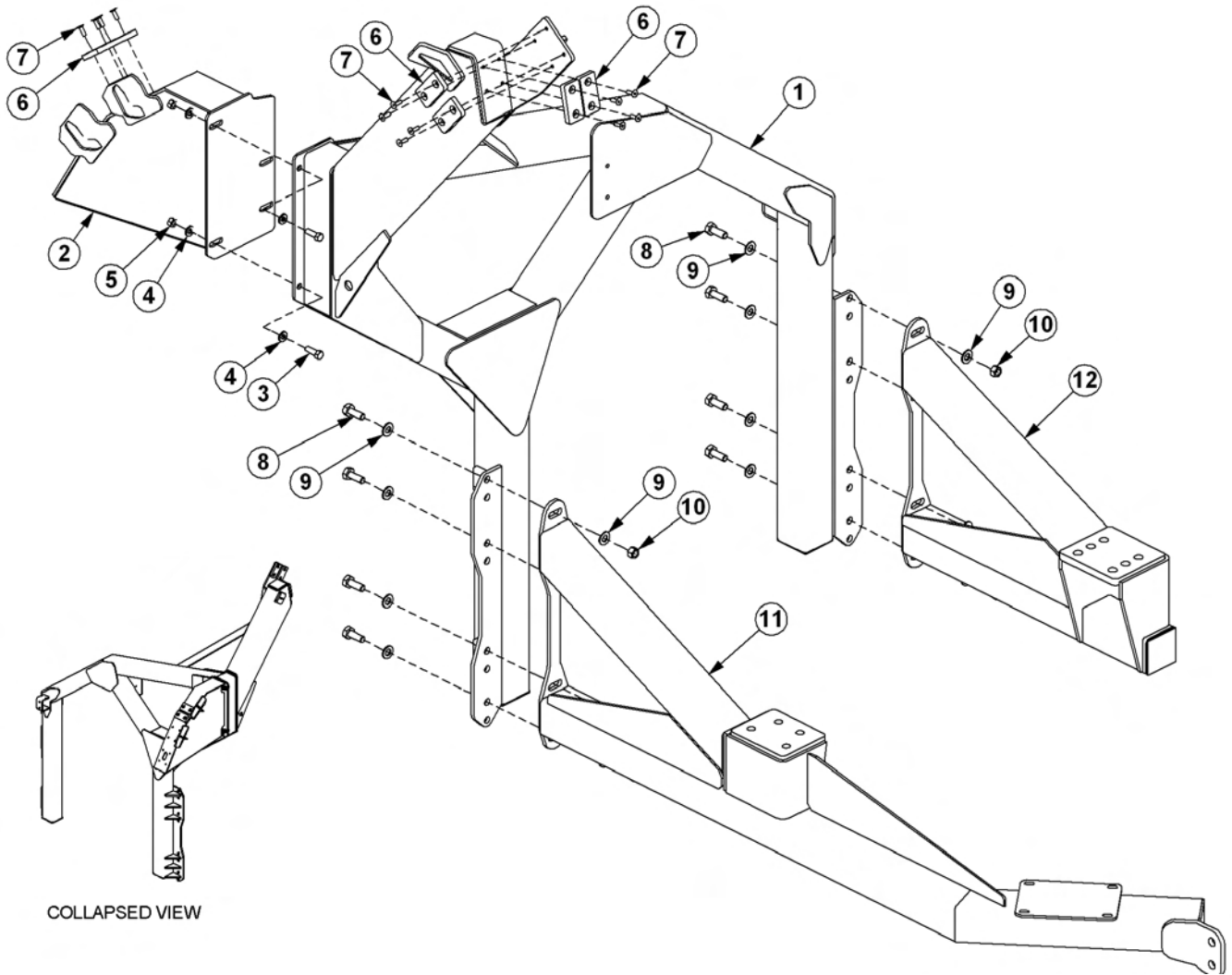
BOOM HYD ASSY - BENGAL 24 - OPEN STOW,3PS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|--|
| 1 | ----- | - | MAIN BOOM *REFER TO BOOM ARM ASSY |
| 2 | ----- | - | SECONDARY BOOM *REFER TO BOOM ARM ASSY |
| 3 | 06506017 | 1 | PRFRMD,5,MAIN BOOM |
| 4 | 06506016 | 1 | PRFRMD,4,MAIN BOOM |
| 5 | 06506019 | 1 | PRFRMD,7,MIAN BOOM |
| 6 | 06506014 | 1 | PRFRMD,2,MAIN BOOM |
| 7 | 06506018 | 1 | PRFRMD,6,MAIN BOOM |
| 8 | 06506013 | 1 | PRFRMD,1,MAIN BOOM |
| 9 | 06506021 | 1 | PRFRMD,9,MAIN BOOM |
| 10 | 06506022 | 1 | PRFRMD,10,MAIN BOOM |
| 11 | 34052 | 2 | HOSE,1/4" X 20" |
| 12 | 34051 | 1 | HOSE,1/4" X 63" |
| 13 | 34050 | 1 | HOSE,1/4" X83" |
| 14 | 34104 | 2 | HOSE,1/4" X 42" |
| 15 | 06505019 | 3 | CLAMP KIT,3 SECTION |
| 16 | 34102 | 2 | TUBE,PRFRMD,SEC BOOM |
| 17 | 2403306 | 2 | TUBE,PRFRMD,SEC BOOM,HP |
| 18 | 30111 | 2 | CLAMP KIT,2 SECTION |
| 19 | 24488 | 1 | HOSE,1" X 40" |
| 20 | 06500254 | 1 | HOSE,1" X 45" |

COMMON BENGAL

BOOMREST ASSY - BENGAL 22 - OPEN STOW

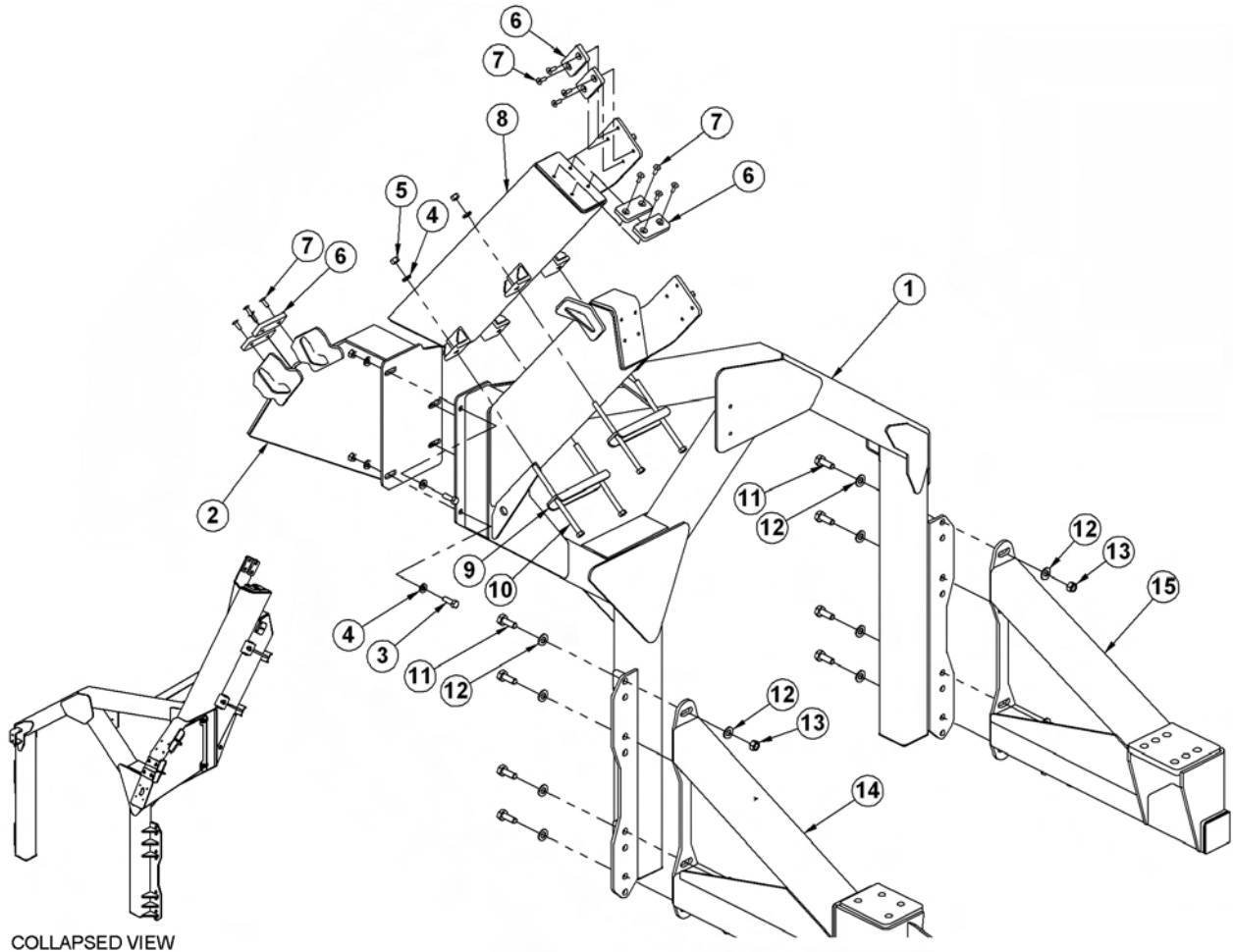


COLLAPSED VIEW

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| --- | 06700100 | 1 | BOOMREST ASSY,STD BOOM,OS |
| 1 | 06310035 | 1 | BOOMREST,BASE,RS |
| 2 | 06310036 | 1 | BOOMREST,SEC,3OS |
| 3 | 21731 | 4 | CAPSCREW,1/2" X 1-1/2",NC |
| 4 | 2200406 | 8 | FLATWASHER,1/2",SAE |
| 5 | 21727 | 4 | NYLOCK NUT,1/2",NC |
| 6 | 06520078 | 6 | STRIP,REST,SEC,1 |
| 7 | 28734 | 12 | CAPSCREW,FLT/SKT HD,3/8" X 1",NC |
| 8 | 21782 | 8 | CAPSCREW,5/8" X 1-3/4",NC |
| 9 | 33764 | 16 | FLATWASHER,5/8",GR 8,SAE |
| 10 | 21775 | 8 | HEX NUT,5/8",NC |
| 11 | ----- | 1 | RH AXLE BRACE *REFER TO MAIN FRAME PARTS |
| 12 | ----- | 1 | LH AXLE BRACE *REFER TO MAIN FRAME PARTS |

COMMON BENGAL

BOOMREST ASSY - BENGAL 24 - OPEN STOW

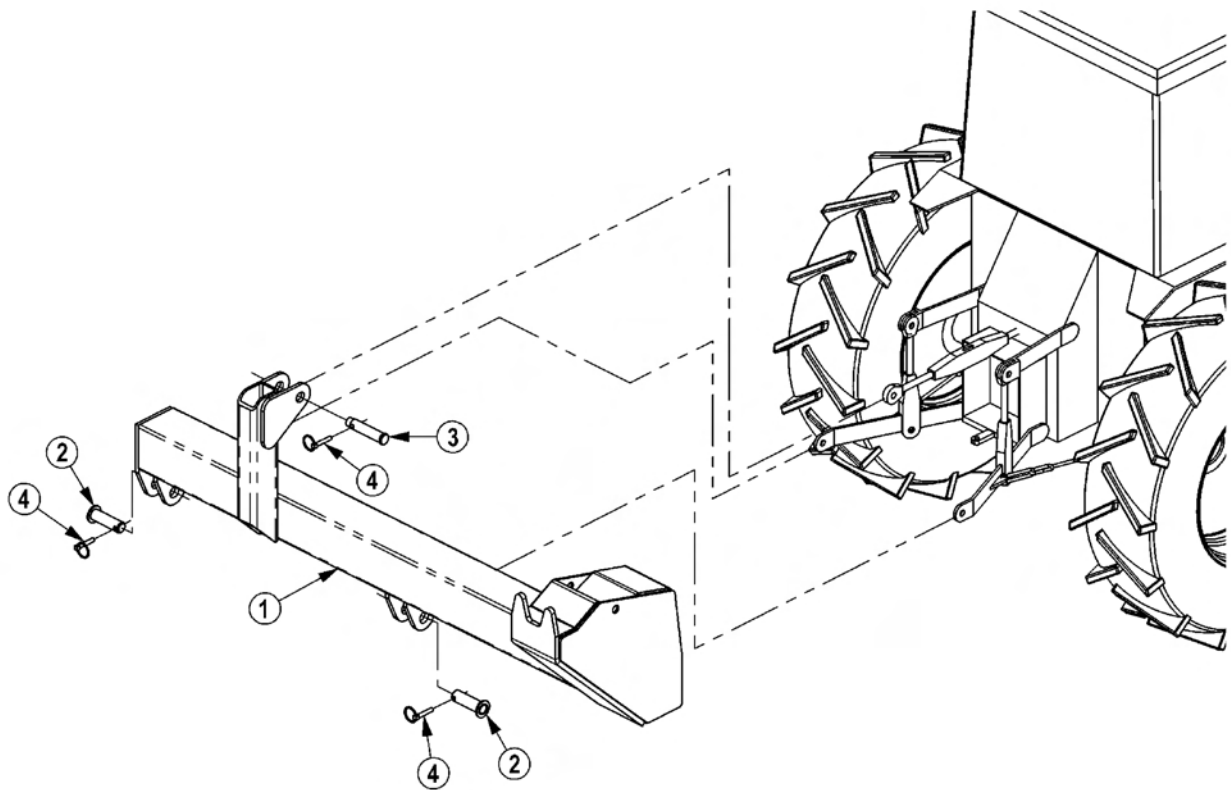


COLLAPSED VIEW

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| --- | 06700101 | 1 | BOOMREST ASSY,EXT BOOM,OS |
| 1 | 06310035 | 1 | BOOMREST,BASE,RS |
| 2 | 06310036 | 1 | BOOMREST,SEC,3OS |
| 3 | 21731 | 4 | CAPSCREW,1/2" X 1-1/2",NC |
| 4 | 2200406 | 12 | FLATWASHER,1/2",SAE |
| 5 | 21727 | 8 | NYLOCK NUT,1/2",NC |
| 6 | 06520078 | 8 | STRIP,REST,SEC,1 |
| 7 | 28734 | 16 | CAPSCREW,FLT/SKT HD,3/8" X 1",NC |
| 8 | 06310037 | 1 | BOOMREST,EXT,MAIN,3OS |
| 9 | 06410587 | 2 | CHANNEL |
| 10 | 21747 | 4 | CAPSCREW,1/2X9,NC |
| 11 | 21782 | 8 | CAPSCREW,5/8" X 1-3/4",NC |
| 12 | 33764 | 16 | FLATWASHER,5/8",GR 8,SAE |
| 13 | 21775 | 8 | HEX NUT,5/8",NC |
| 14 | ----- | 1 | RH AXLE BRACE *REFER TO MAIN FRAME PARTS |
| 15 | ----- | 1 | LH AXLE BRACE *REFER TO MAIN FRAME PARTS |

COMMON BENGAL

BOOMREST ASSEMBLY - 3 PNT STOW

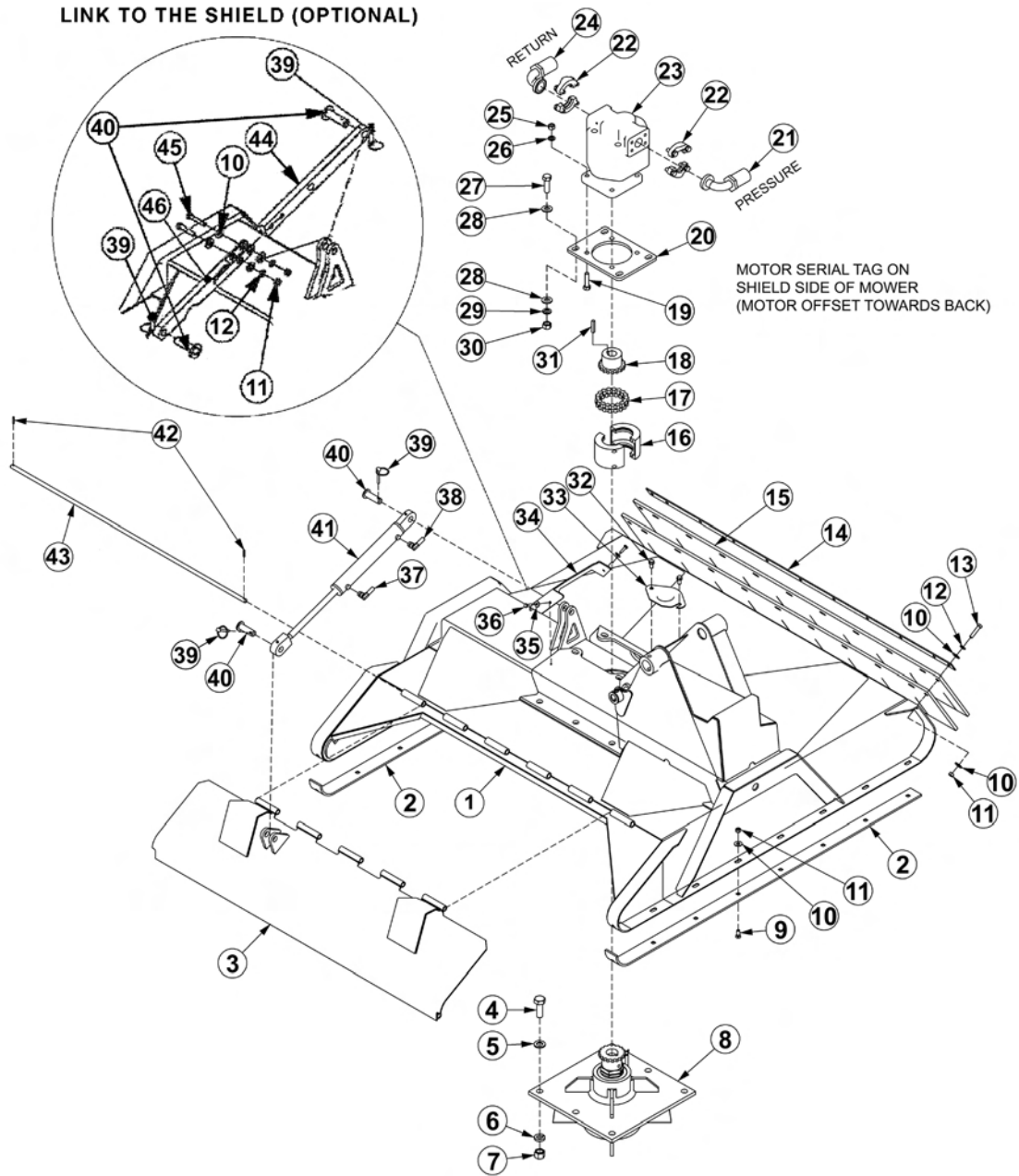


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 6310023 | 1 | BOOMREST,STD,3PNT |
| 2 | TF1120 | 2 | PIN,(CAPPED),1-1/8 X 3-7/8 |
| 3 | TB1036 | 1 | PIN,SEC BOOM SWIV 1X4-11/16 |
| 4 | TF1143 | 3 | PIN,LYNCH 7/16 X 2 |

NOTES

50IN ROTARY MOWER ASSEMBLY

LINK TO THE SHIELD (OPTIONAL)



| 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 |

COMMON BENGAL

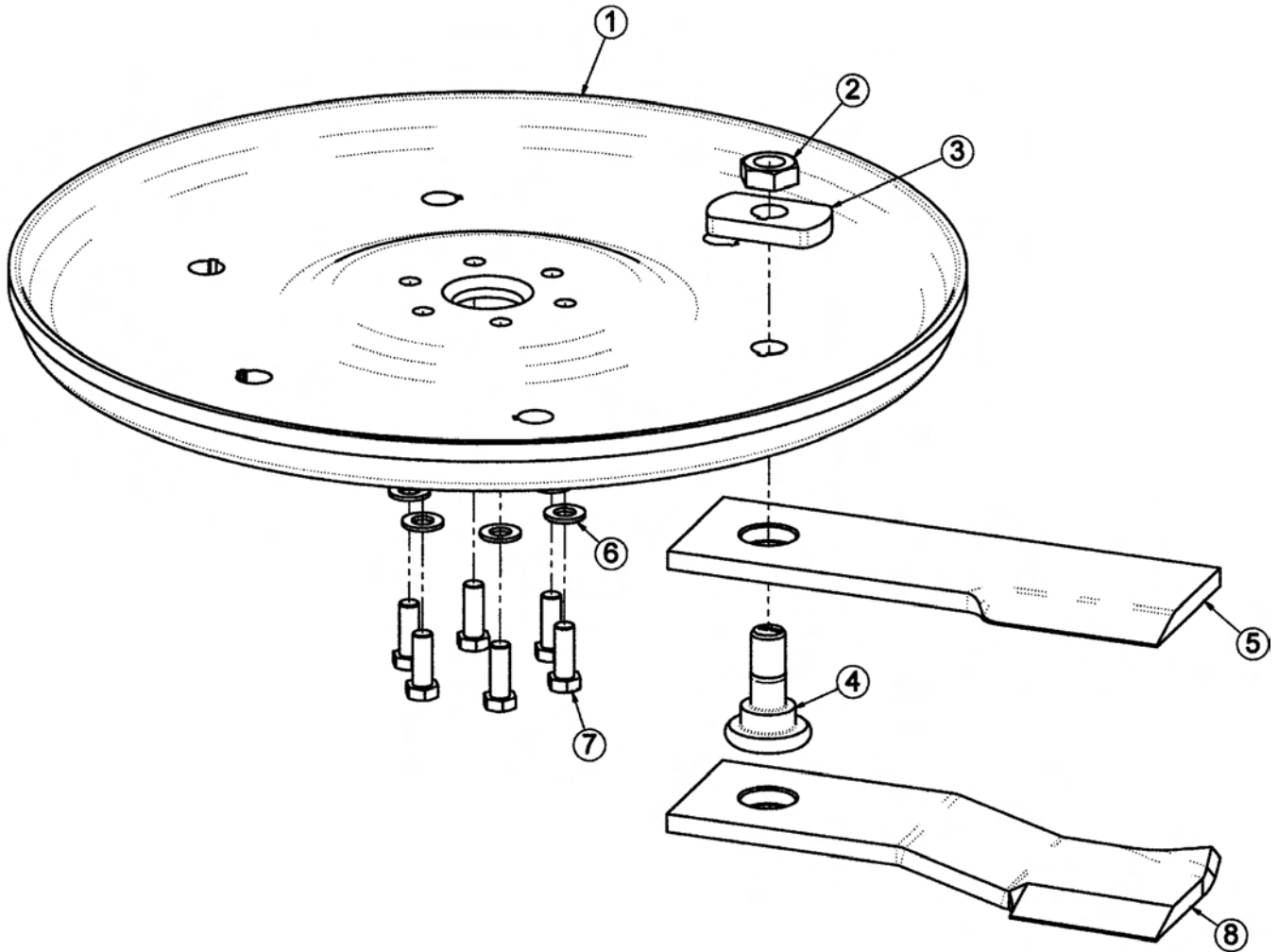
50IN ROTARY MOWER ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 9 | 6T2270 | 16 | PLOW BOLT,3/8" X 1" NC |
| 10 | 22016 | 33 | FLATWASHER,3/8" |
| 11 | 21625 | 20 | HEX NUT,3/8",NC |
| 12 | 21988 | 11 | LOCKWASHER, 3/8" |
| 13 | 21633 | 11 | CAPSCREW, 3/8 X 1 3/4,NC |
| 14 | 33774 | 1 | FLAP RETAINER,50" RTRY |
| 15 | 33775 | 2 | FLAP,50" RTRY |
| 16 | 6T1033 | 1 | COUPLER COVER WITH HARDWARE AND SEALS |
| 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 (RED DECAL STRIP) |
| 22 | TF4852 | 2 | FLANGE KIT - #20 |
| 23 | 06504012 | 1 | MOTOR (M365-1 3/4" GEAR) |
| 24 | 24489 | 1 | HOSE - RETURN (BLUE DECAL STRIP) |
| 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 (OPTIONAL) |
| 45 | 21634 | 2 | CAPSCREW, 3/8" X 2, NC |
| 46 | 33773 | 1 | LINK 2, SHIELD 50" RTRY (OPTIONAL) |

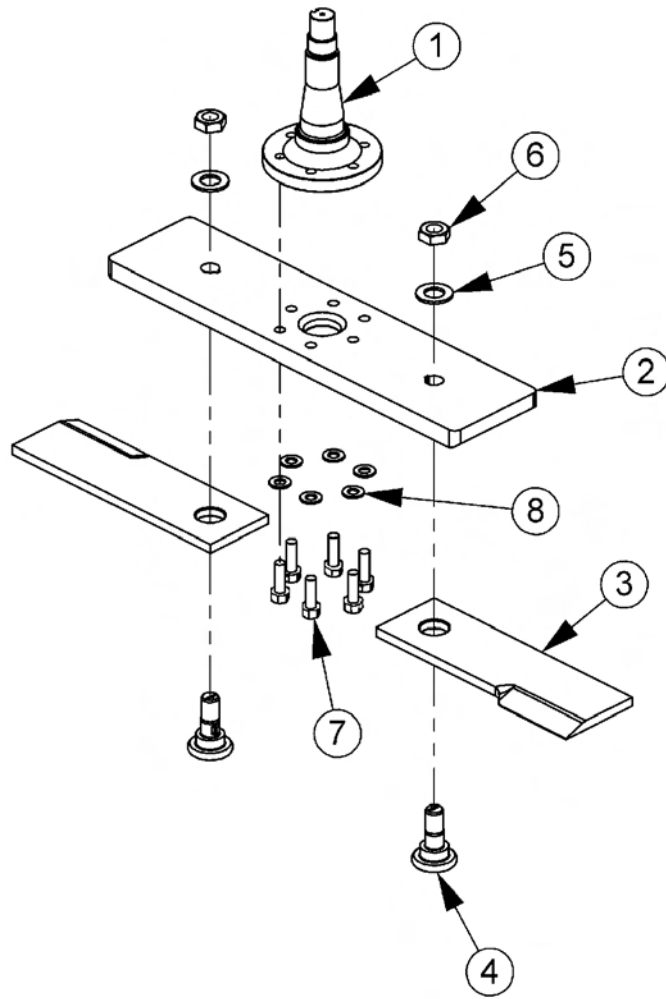
COMMON BENGAL

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

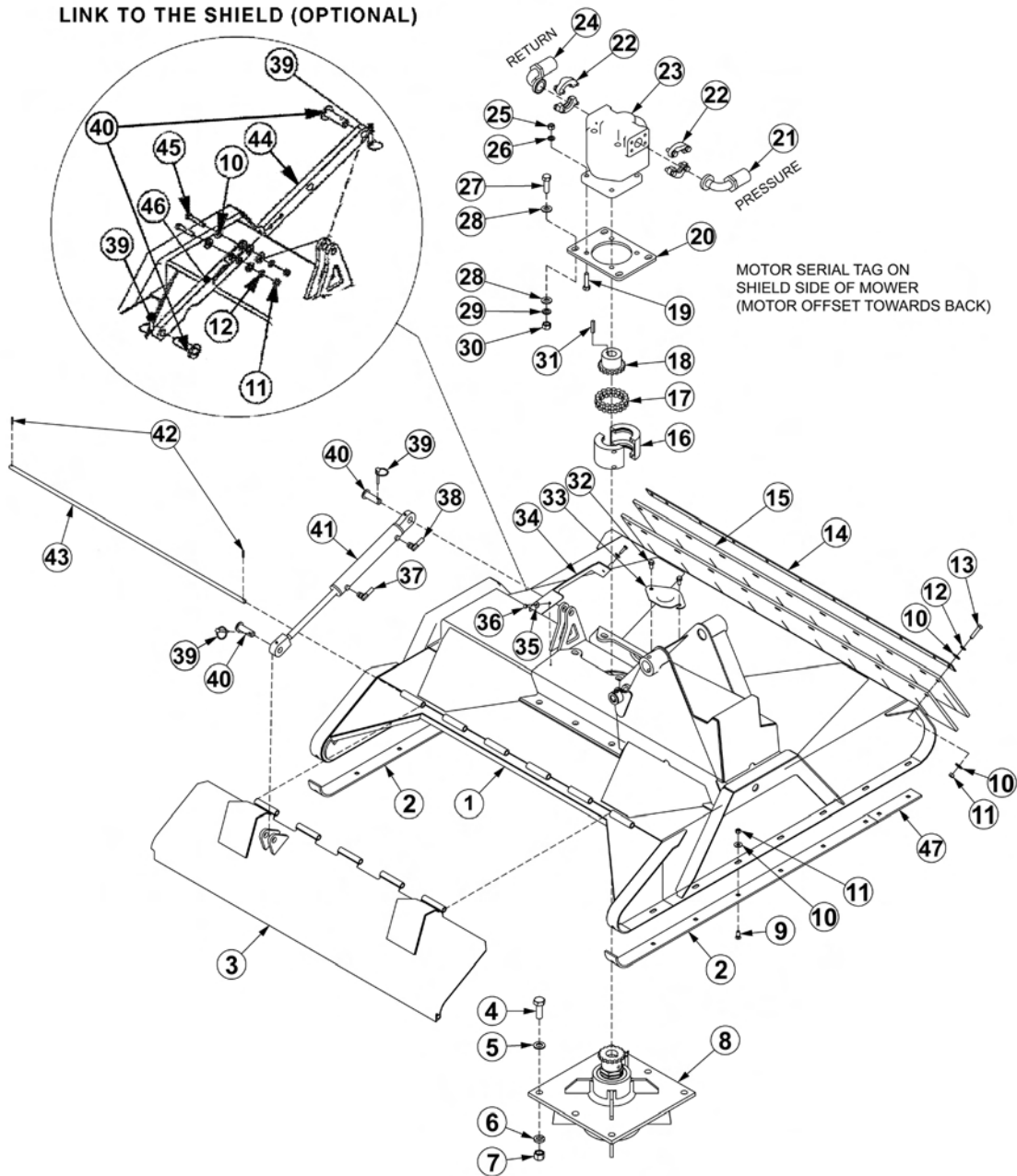


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | PT1018H5 | 1 | SPINDLE,5/8HOLES,HD,WO/TABS |
| 2 | 06400388 | 1 | BAR,BLADE,TRB |
| 3 | 06521001 | 2 | KNIFE,TRB50,5/8 |
| 4 | 06538000 | 2 | KNIFE MTG BOLT,5/8 SHOULDER |
| 5 | 06533002 | 2 | FLATWASHER,1 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 |

COMMON BENGAL

60IN ROTARY MOWER ASSEMBLY

LINK TO THE SHIELD (OPTIONAL)



| 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 |

COMMON BENGAL

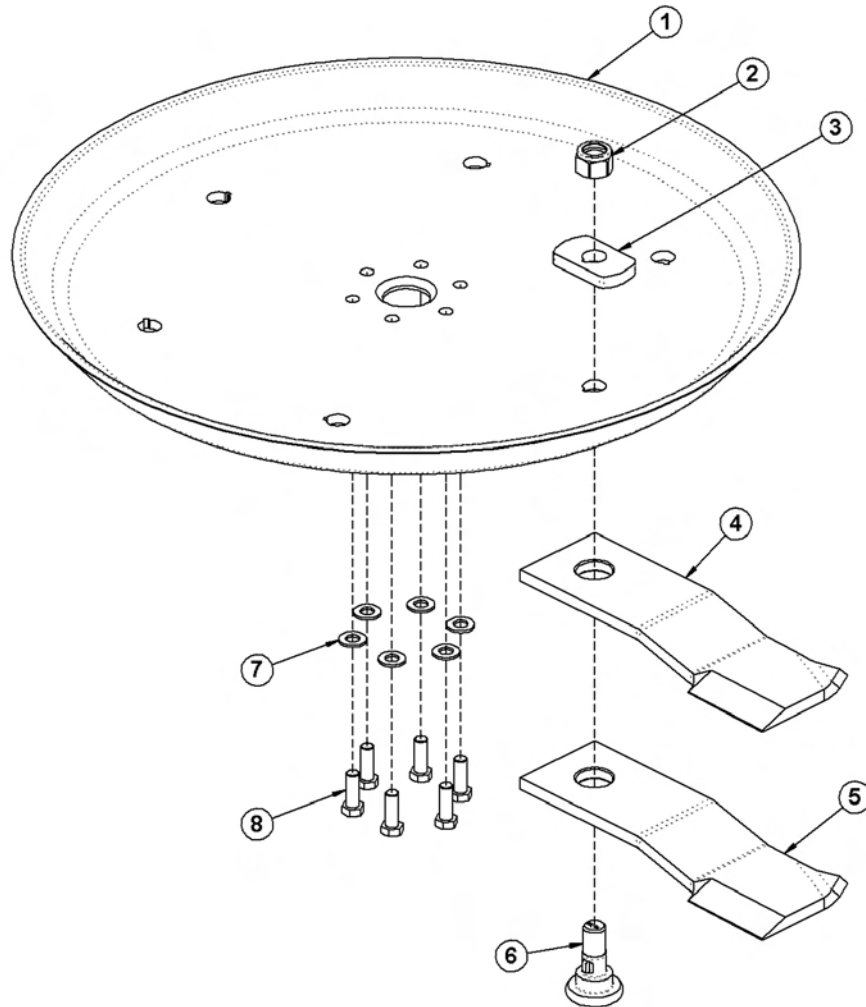
60IN ROTARY MOWER ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---------------------------------------|
| 9 | 6T2270 | 16 | PLOW BOLT,3/8" X 1",NC |
| 10 | 22016 | 33 | FLATWASHER,3/8" |
| 11 | 21625 | 20 | HEX NUT,3/8",NC |
| 12 | 21988 | 11 | LOCKWASHER,3/8" |
| 13 | 21633 | 11 | CAPSCREW,3/8" X 1-3/4",NC |
| 14 | 6T0823 | 1 | FLAP RETAINER,60" RTRY |
| 15 | 06520238 | 2 | FLAP,60" RTRY |
| 16 | 6T1033 | 1 | COUPLER COVER WITH HARDWARE AND SEALS |
| 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 (RED DECAL STRIP) |
| 22 | TF4852 | 2 | FLANGE KIT - #20 |
| 23 | 06504011 | 1 | MOTOR |
| 24 | 24489 | 1 | HOSE - RETURN (BLUE DECAL STRIP) |
| 25 | 21725 | 4 | HEX NUT, 1/2" NC |
| 26 | 06533004 | 4 | FLATWASHER, 1/2" |
| 27 | 6T2290 | 4 | CAPSCREW,5/8" X 2",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 | 4 | CAPSCREW,FLG,3/8" X 3/4",NC |
| 33 | 33779 | 2 | 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 (OPTIONAL) |
| 45 | 21634 | 2 | CAPSCREW, 3/8" X 2", NC |
| 46 | 33773 | 1 | LINK 2, SHIELD,RTRY (OPTIONAL) |
| 47 | 06401245 | 2 | SKID SHOE,TRB60" |

COMMON BENGAL

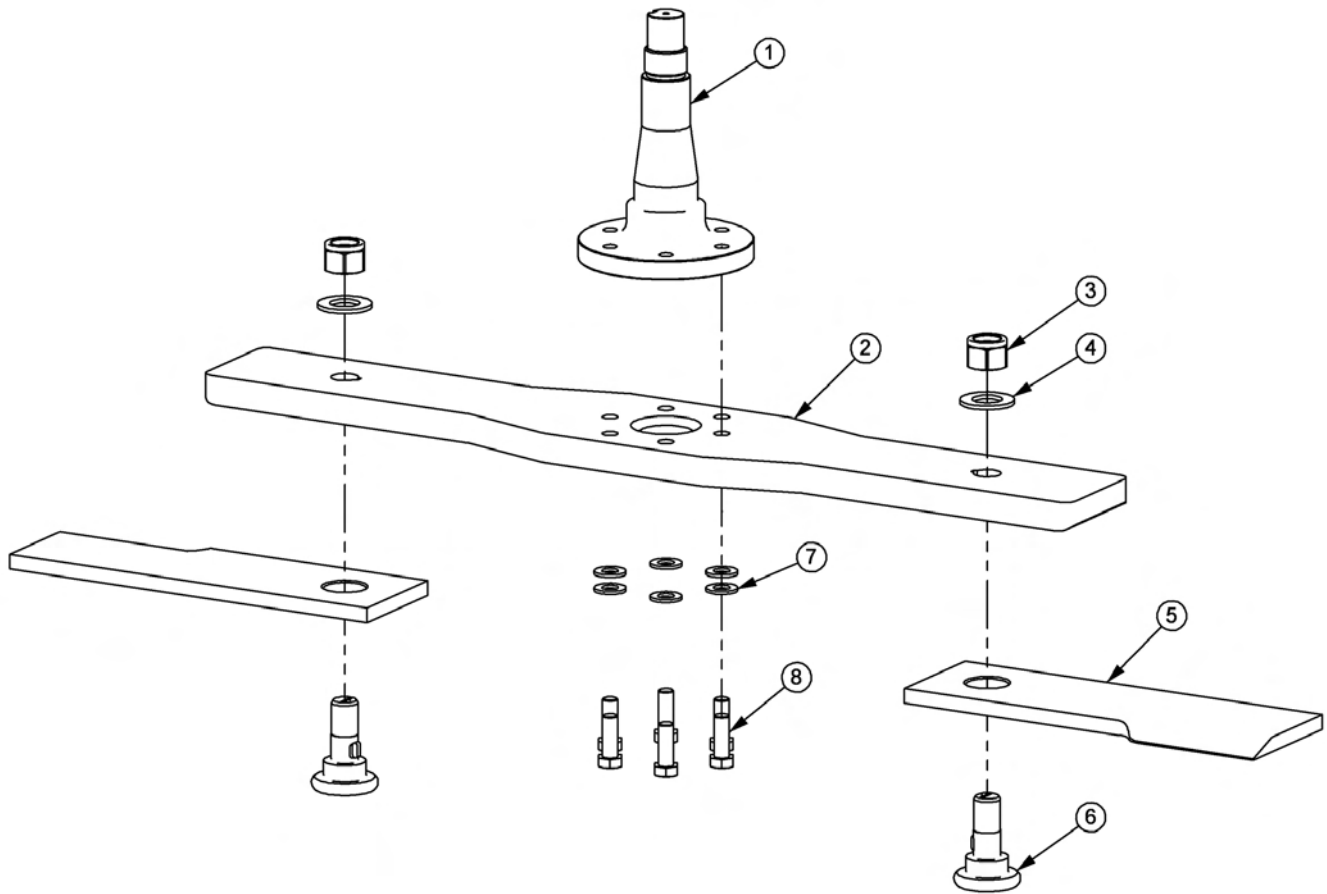
60IN ROTARY KNIVES AND DISH



| 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) |

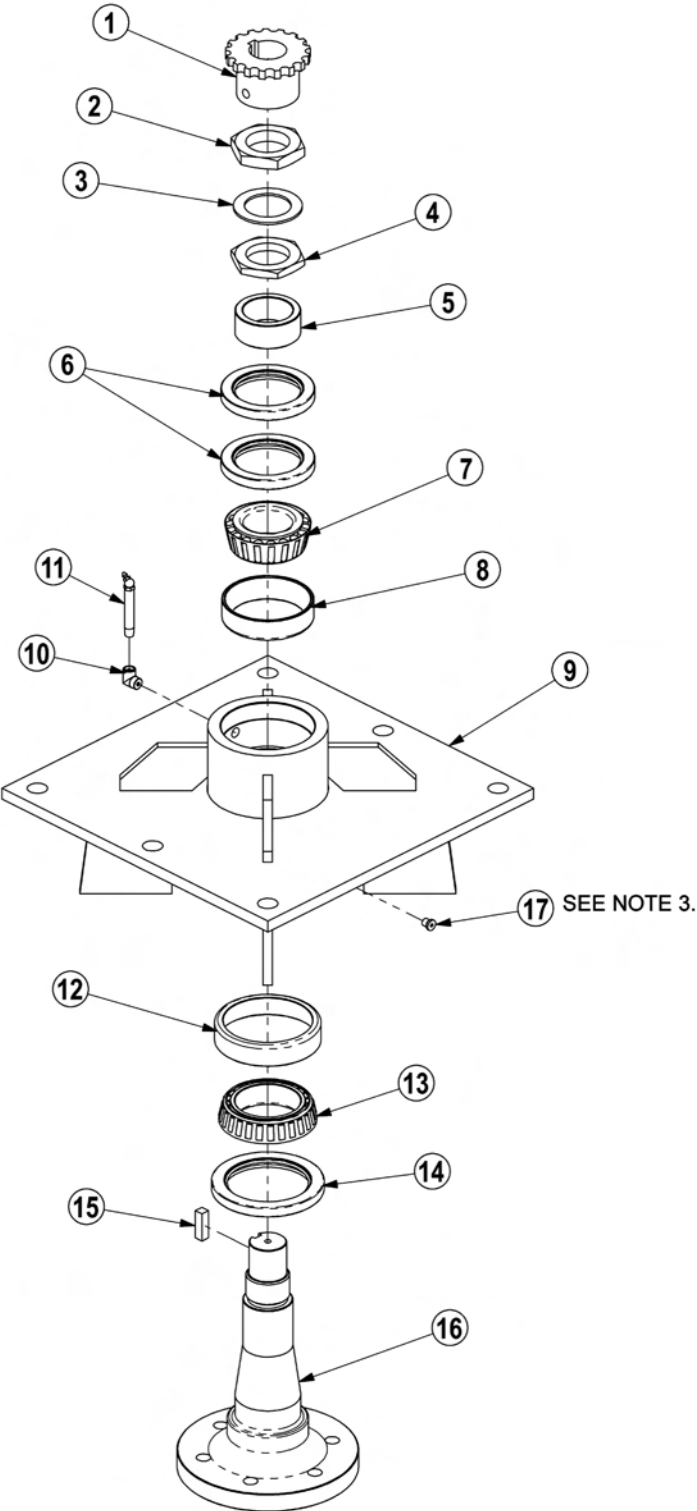
COMMON BENGAL

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.

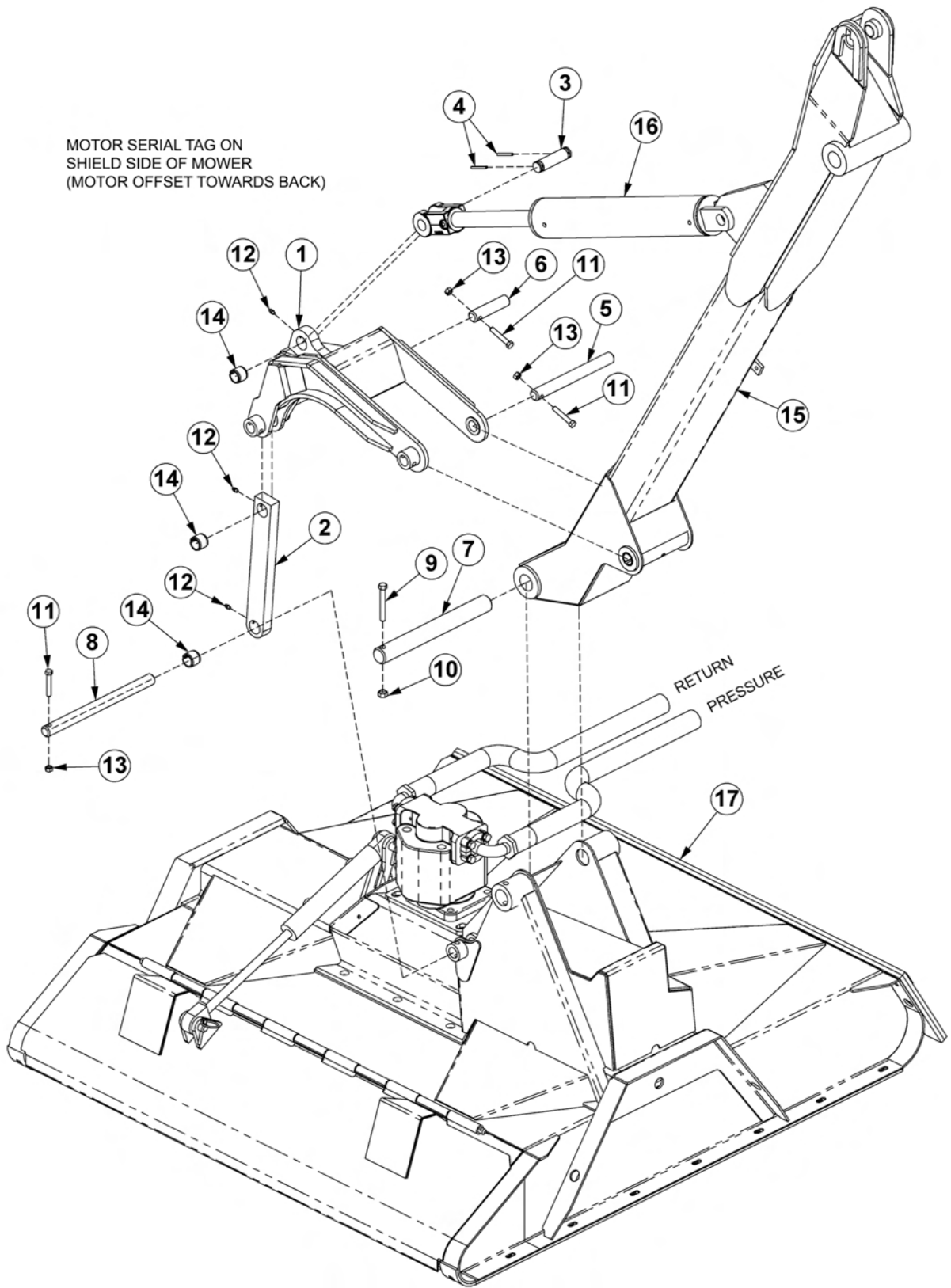
ROTARY MOWER SPINDLE ASSEMBLY

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 | PT1018H-5 | 1 | SPINDLE |
| 17 | 06503064 | 1 | O-RING PLUG, 1/8" |
| ----- | 33993 | - | SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15) |

COMMON BENGAL

BOOM ROTARY PIVOT ASSEMBLY

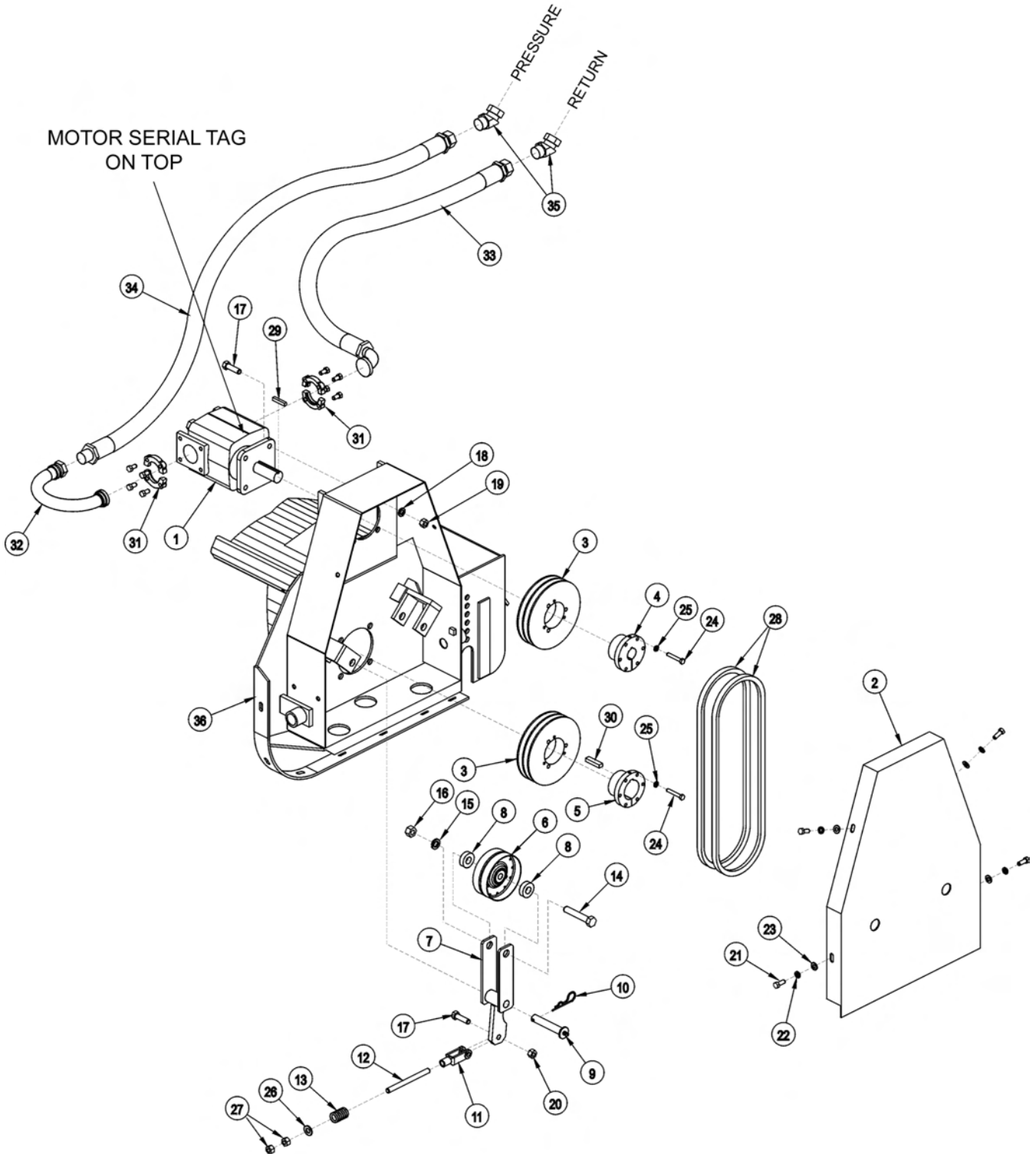


BOOM ROTARY PIVOT ASSEMBLY

Continued...

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

50IN FLAIL DRIVE ASSEMBLY



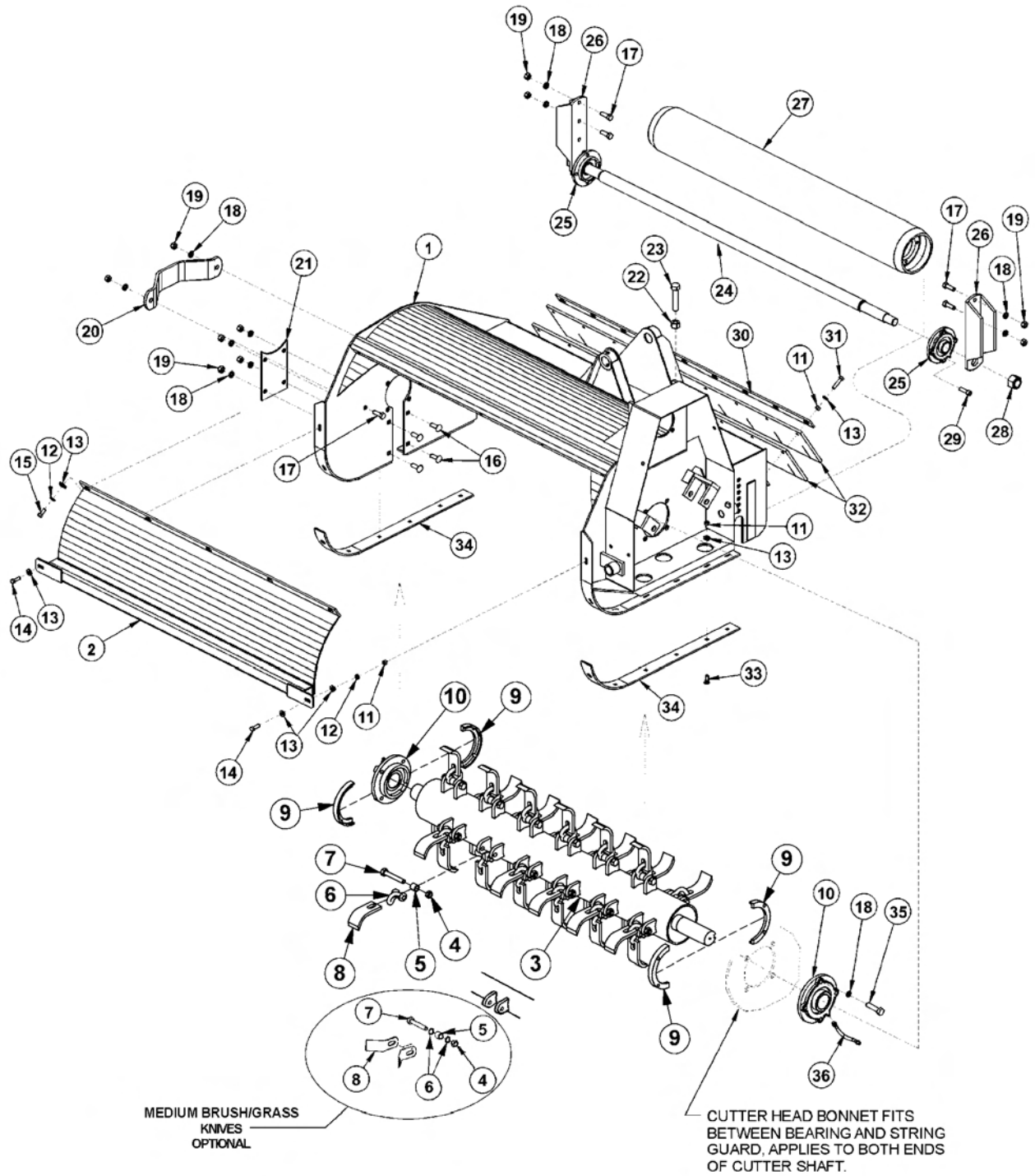
50IN FLAIL DRIVE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|--|
| 1 | 06504013 | 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 |

COMMON BENGAL

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 |

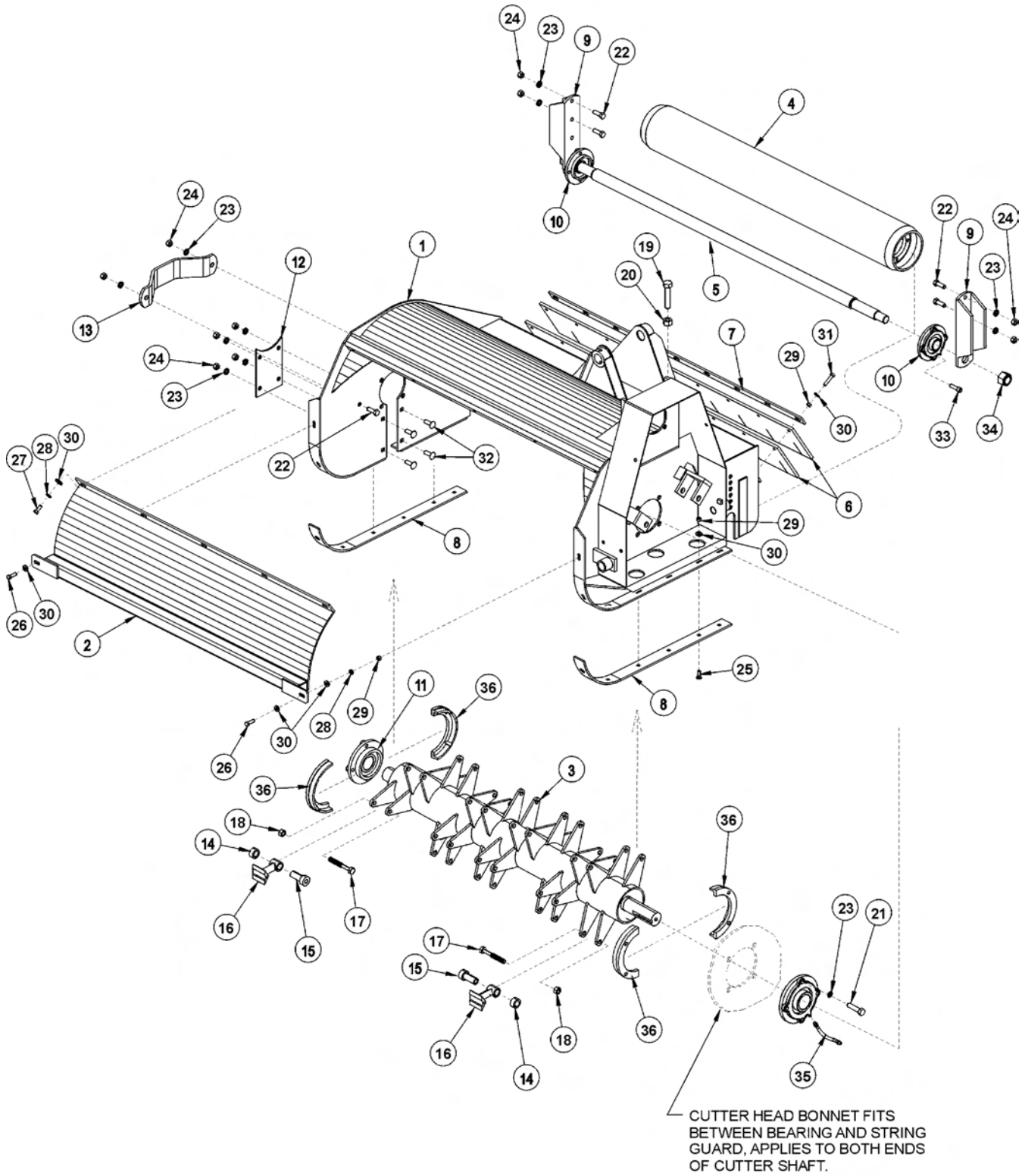
50IN FLAIL MOWER ASSEMBLY

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 | 41725.01HT | 24 | BUSHING,1"OD X 5/8"ID |
| 6 | 34782 | 24 | CLEVIS (LIGHT BRUSH/GRASS KNIVES) |
| ---- | 06430122 | 48 | SPACER (MEDIUM BRUSH/GRASS KNIVES) |
| 7 | 34786 | 24 | CAPSCREW,9/16" X 3-1/2",NC |
| 8 | 34780 | 24 | KNIFE (LIGHT BRUSH/GRASS CUTTING) |
| ---- | 06521007 | 48 | KNIFE (MEDIUM BRUSH/GRASS CUTTING) |
| 9 | 31204 | 2 | STRING GUARD SET (2 PIECES PER SET) |
| 10 | TF1018 | 2 | FLANGE BEARING,2-3/16" |
| 11 | 21625 | 23 | HEX NUT,3/8",NC |
| 12 | 21988 | 7 | LOCKWASHER,3/8" |
| 13 | 22016 | 30 | FLATWASHER,3/8" |
| 14 | 21631 | 2 | CAPSCREW,3/8" X 1-1/4",NC |
| 15 | 21630 | 5 | CAPSCREW,3/8" X 1",NC |
| 16 | 6T7031D | 4 | PLOW BOLT,1/2" X 1-1/2",NC |
| 17 | 21731 | 6 | CAPSCREW,1/2" X 1-1/2",NC |
| 18 | 21990 | 18 | LOCKWASHER,1/2" |
| 19 | 21725 | 10 | HEX NUT,1/2",NC |
| 20 | TF1040 | 1 | CUTTER SHAFT GUARD |
| 21 | TF3007A | 1 | COVER PLATE |
| 22 | 21825 | 1 | HEX NUT,5/8",NC |
| 23 | 21838 | 1 | CAPSCREW,3/4" X 3-1/2",NC |
| 24 | TF3406 | 1 | GROUND ROLLER TIE ROD |
| 25 | TF1022 | 2 | FLANGE BEARING,1-3/8" |
| 26 | TF3407 | 2 | GROUND ROLLER ADJUSTMENT BRACKET |
| 27 | TF3405 | 1 | GROUND ROLLER |
| 28 | 6T1023R | 2 | NYLOCK NUT,1-1/8",NF |
| 29 | 6T2330 | 8 | CAPSCREW,7/16" X 1-1/2",SOCKET HEAD |
| 30 | TB1008 | 1 | FLAP RETAINING BAR |
| 31 | 21633 | 9 | CAPSCREW,3/8" X 1-3/4",NC |
| 32 | TB1006A | 2 | DEFLECTOR FLAP |
| 33 | 6T2270 | 12 | PLOWBOLT,3/8" X 1",NC |
| 34 | TF3001 | 2 | SKID SHOE |
| 35 | 06530218 | 8 | CAPSCREW,1/2" X 1-3/4",NC |
| 36 | TF1032 | 1 | FLANGE BEARING GREASE HOSE |

COMMON BENGAL

50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES



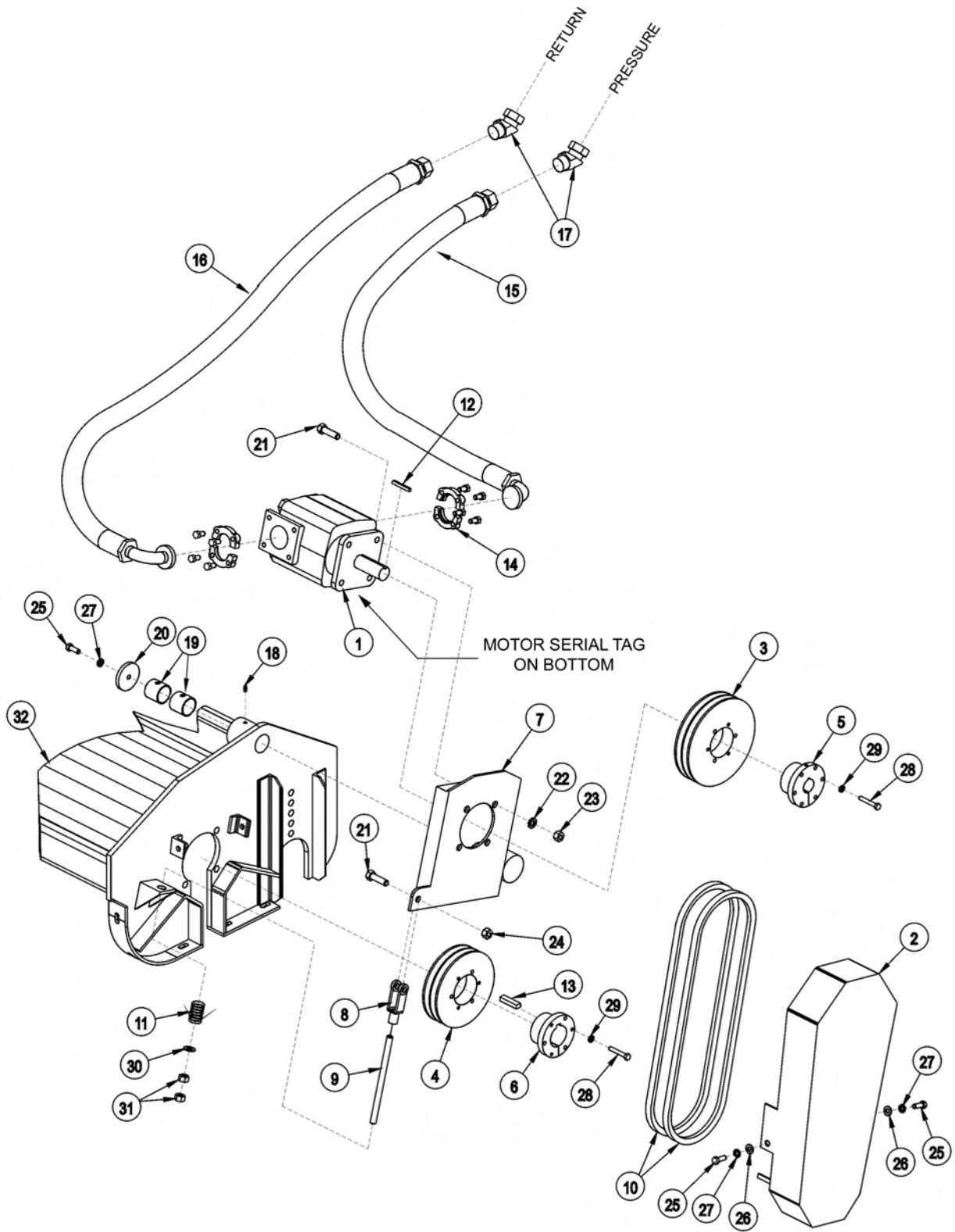
50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES

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

63IN FLAIL DRIVE ASSEMBLY

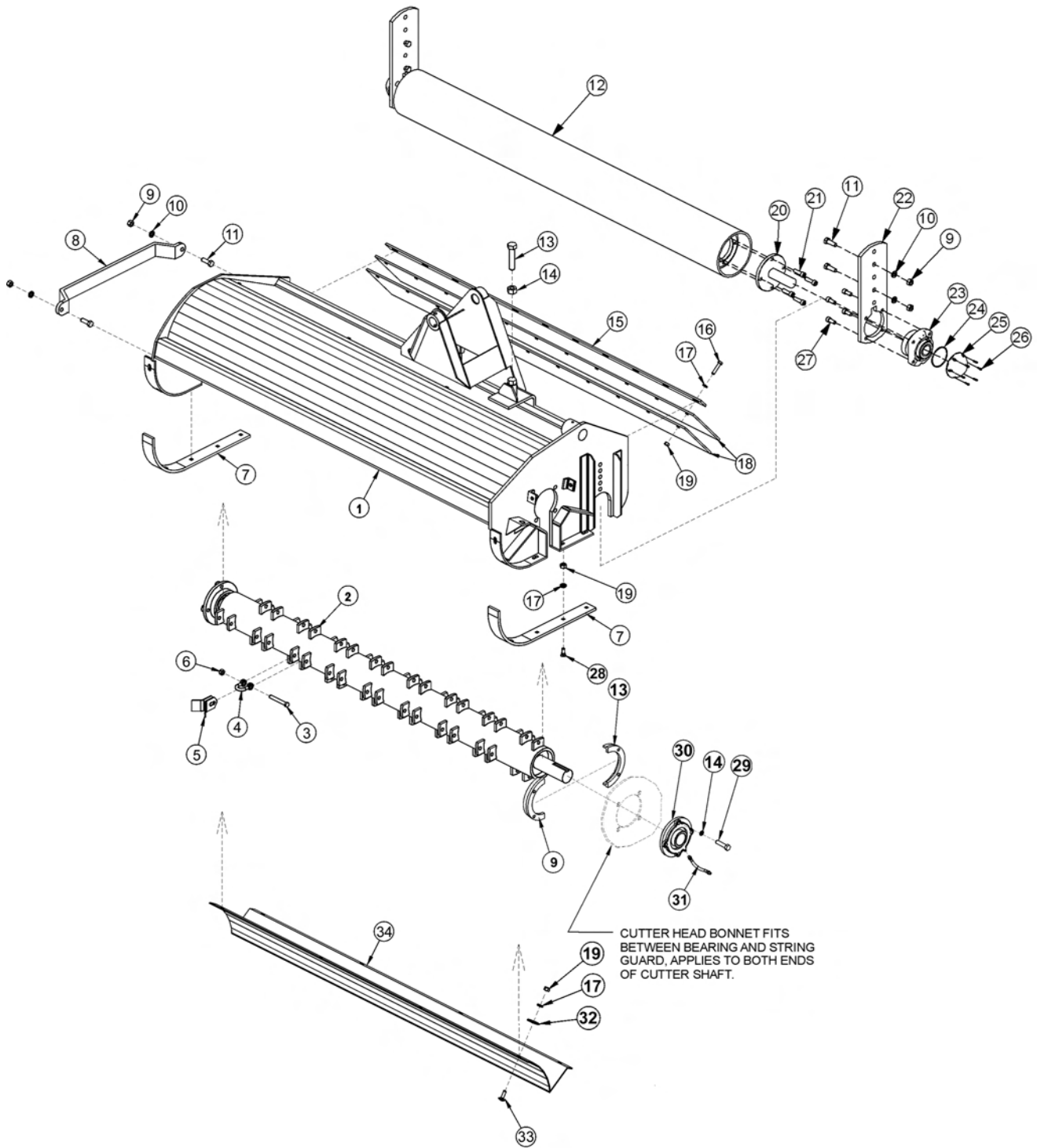


63IN FLAIL DRIVE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| 1 | 06504013 | 1 | MOTOR (M350-1 3/4 GEAR) |
| 2 | 32569 | 1 | BELT GUARD |
| 3 | TF3044 | 1 | UPPER SHEAVE |
| 4 | TF3040 | 1 | LOWER SHEAVE |
| 5 | TF3013 | 1 | BUSHING |
| 6 | 28723 | 1 | BUSHING |
| 7 | 28679B | 1 | MOTOR CHANNEL |
| 8 | PT3611A | 1 | CLEVIS |
| 9 | 40496 | 1 | THREADED ROD |
| 10 | 28702 | 2 | BELT |
| 11 | TF3620A | 1 | TENSIONER SPRING |
| 12 | 28572 | 1 | SQUARE KEY |
| 13 | 26142A | 1 | SQUARE KEY |
| 14 | TF4852 | 2 | FLANGE KIT |
| 15 | 30308 | 1 | HOSE,1 X 69 - PRESSURE |
| 16 | 30309 | 1 | HOSE,1 X 78 - RETURN |
| 17 | 24724 | 2 | SWIVEL FITTING |
| 18 | TF1033 | 1 | GREASE ZERK |
| 19 | 27580 | 2 | BUSHING |
| 20 | 28682 | 1 | MOTOR CHANNEL WASHER |
| 21 | 21732 | 5 | CAPSCREW 1/2" X 1 3/4" |
| 22 | 21990 | 4 | LOCKWASHER 1/2" |
| 23 | 21725 | 4 | HEX NUT 1/2" |
| 24 | 6T2418 | 1 | STOVER NUT 1/2" |
| 25 | 21630 | 3 | CAPSCREW 3/8" X 1" |
| 26 | 22016 | 2 | FLATWASHER 3/8" |
| 27 | 21988 | 3 | LOCKWASHER 3/8" |
| 28 | 21584 | 6 | CAPSCREW 5/16" X 2" |
| 29 | 21987 | 6 | LOCKWASHER 5/16" |
| 30 | 27938 | 1 | FLATWASHER 1/2" |
| 31 | 21700 | 2 | HEX NUT 1/2" NF |
| 32 | ----- | - | CUTTER HEAD *REFER TO MOWER ASSY |

63IN FLAIL MOWER ASSEMBLY



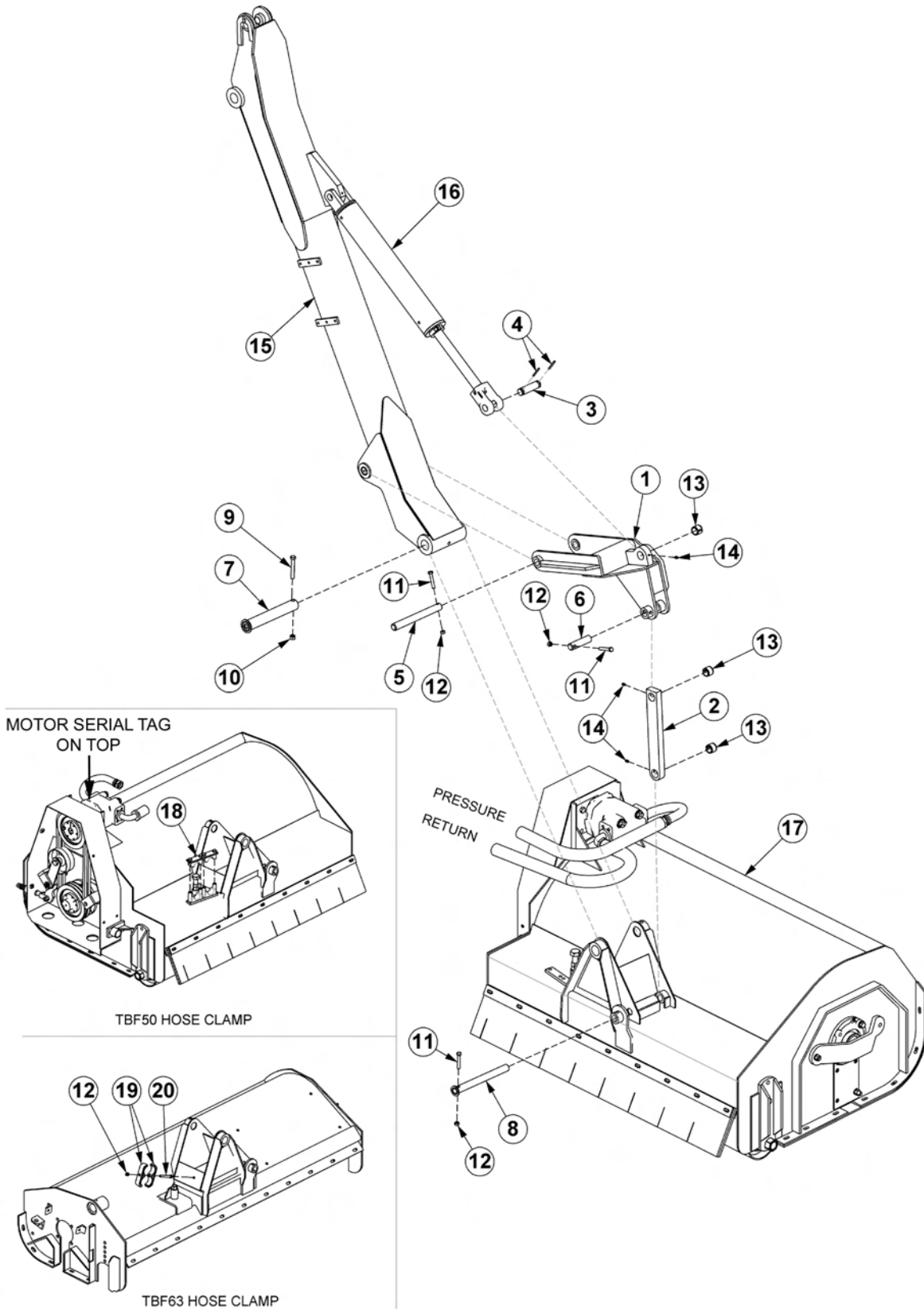
63IN FLAIL MOWER ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|---|
| ----- | 06200271 | - | FLAIL,BOOM,63,GRASS,CPLT ASSY |
| 1 | 28659H | 1 | CUTTER HEAD BONNET |
| 2 | 28743 | - | CUTTER SHAFT / KNIFE ASSY STANDARD GRASS |
| ----- | 28642C | 1 | CUTTER SHAFT,63,STD |
| 3 | 34011 | 36 | FLAIL KNIFE MOUNTING BOLT |
| 4 | TF1020 | 36 | FLAIL KNIFE MOUNTING CLEVIS |
| 5 | 33713 | 72 | FLAIL KNIFE - STANDARD |
| 6 | 21677 | 36 | NYLOCK NUT |
| 7 | 28086A | 2 | SKID SHOE |
| 8 | 27975A | 1 | CUTTER SHAFT GUARD |
| 9 | 21725 | 14 | HEX NUT 1/2" |
| 10 | 21990 | 14 | LOCKWASHER 1/2" |
| 11 | 21731 | 6 | CAPSCREW 1/2" X 1 1/2" |
| 12 | 28650A | 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

BOOM FLAIL PIVOT ASSEMBLY

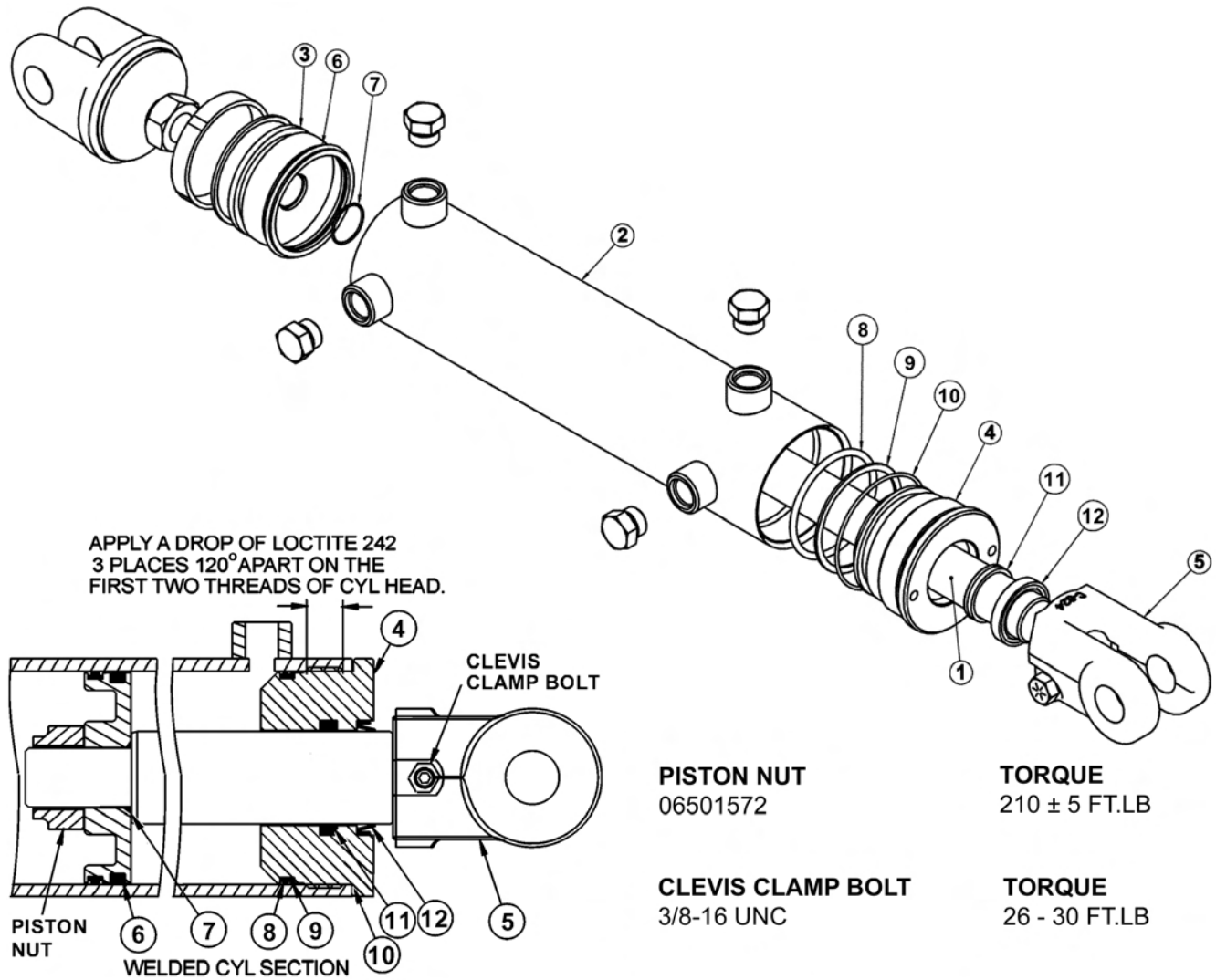


BOOM FLAIL PIVOT ASSEMBLY

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 | TB3010 | 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" |

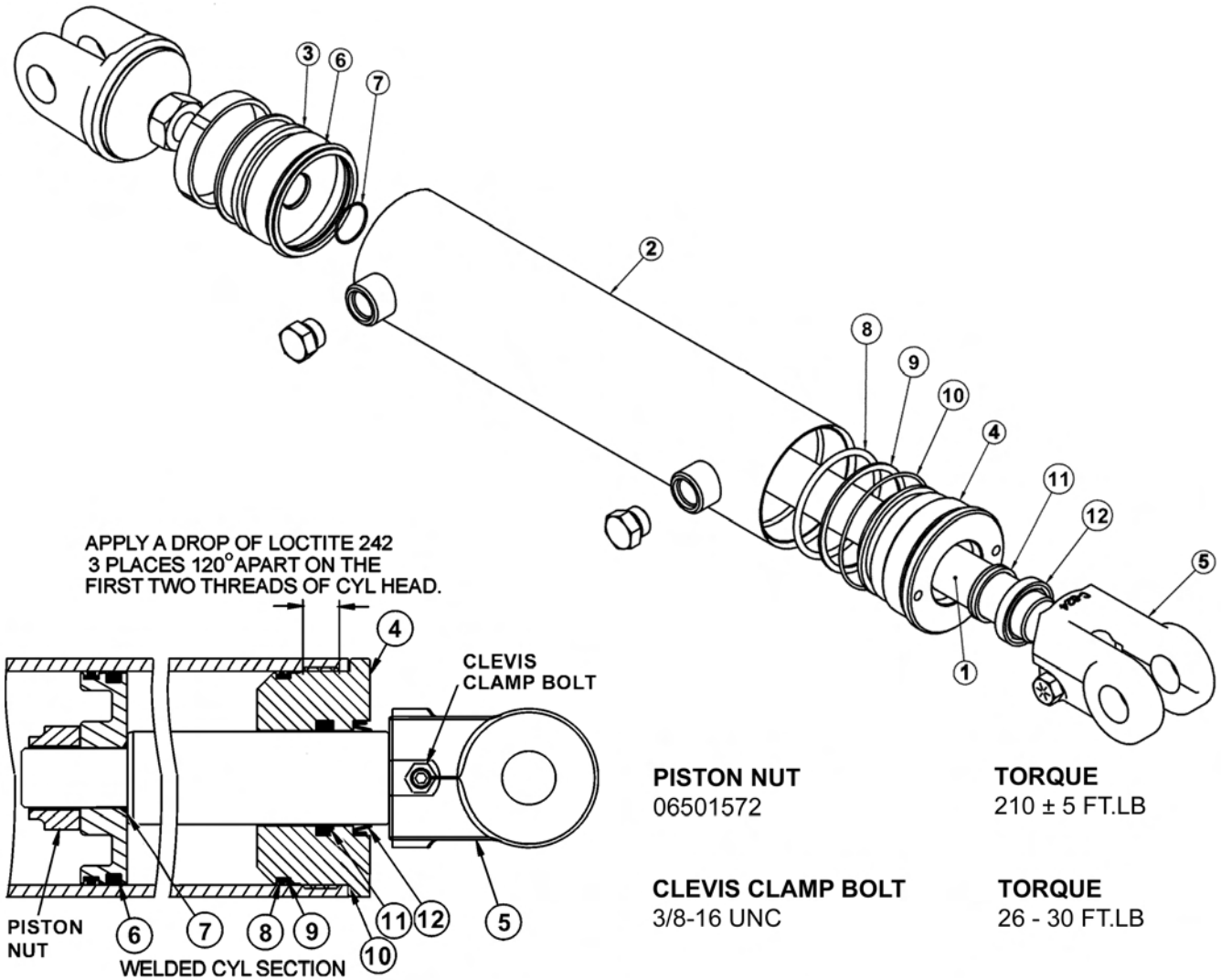
3IN X 10IN WELDED CYLINDER BREAKDOWN



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

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

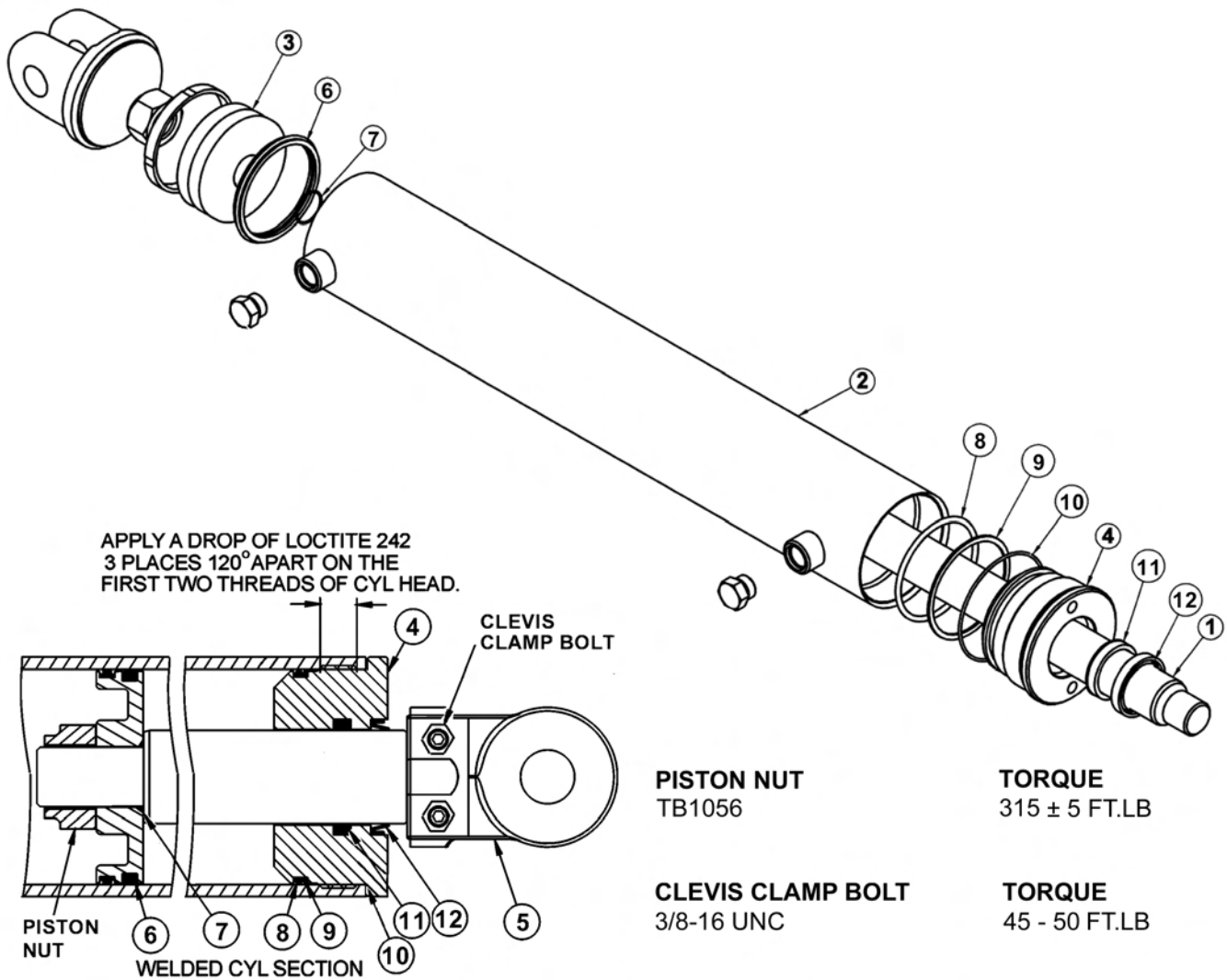
3IN X 18IN WELDED CYLINDER BREAKDOWN



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) |

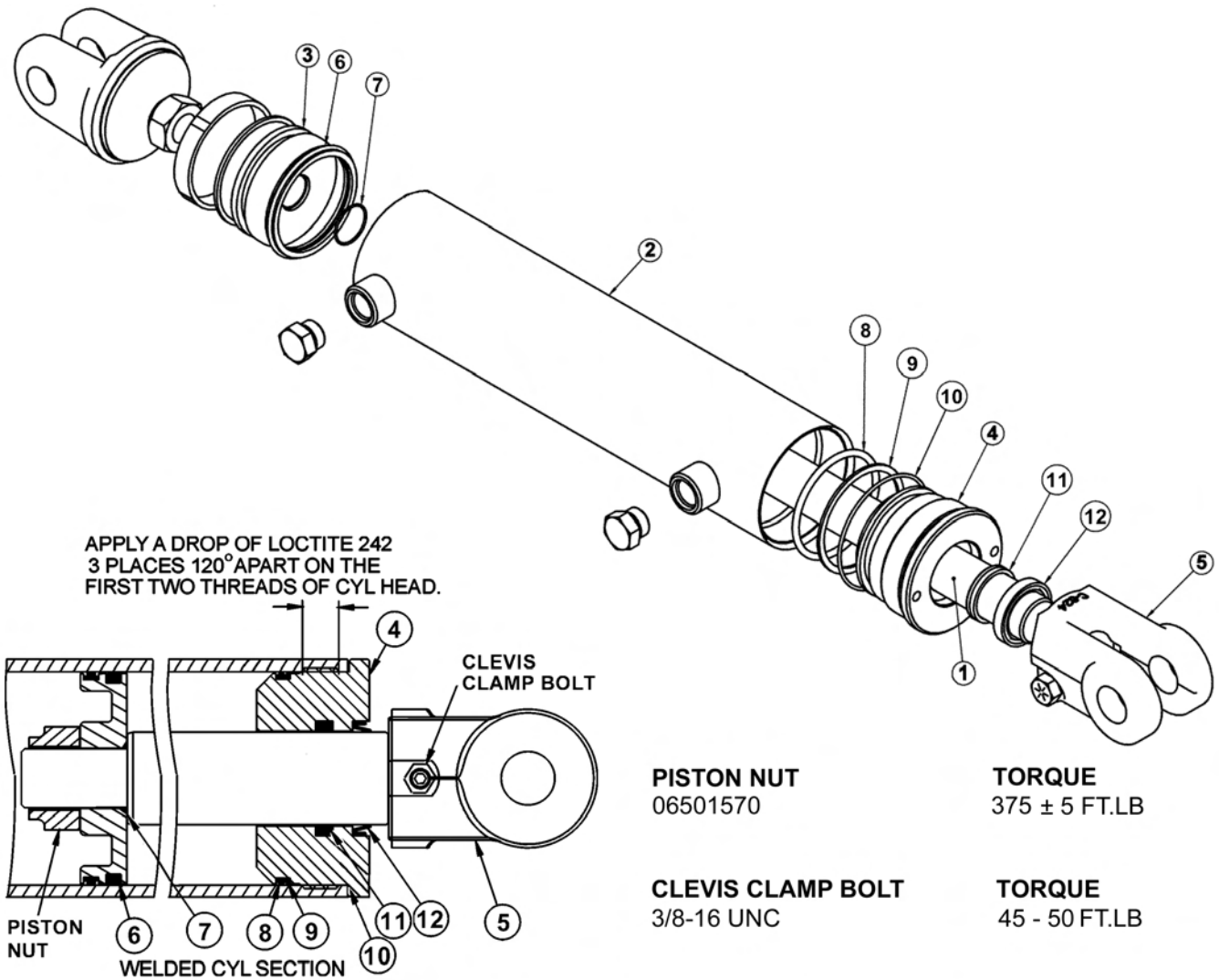
3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



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) |

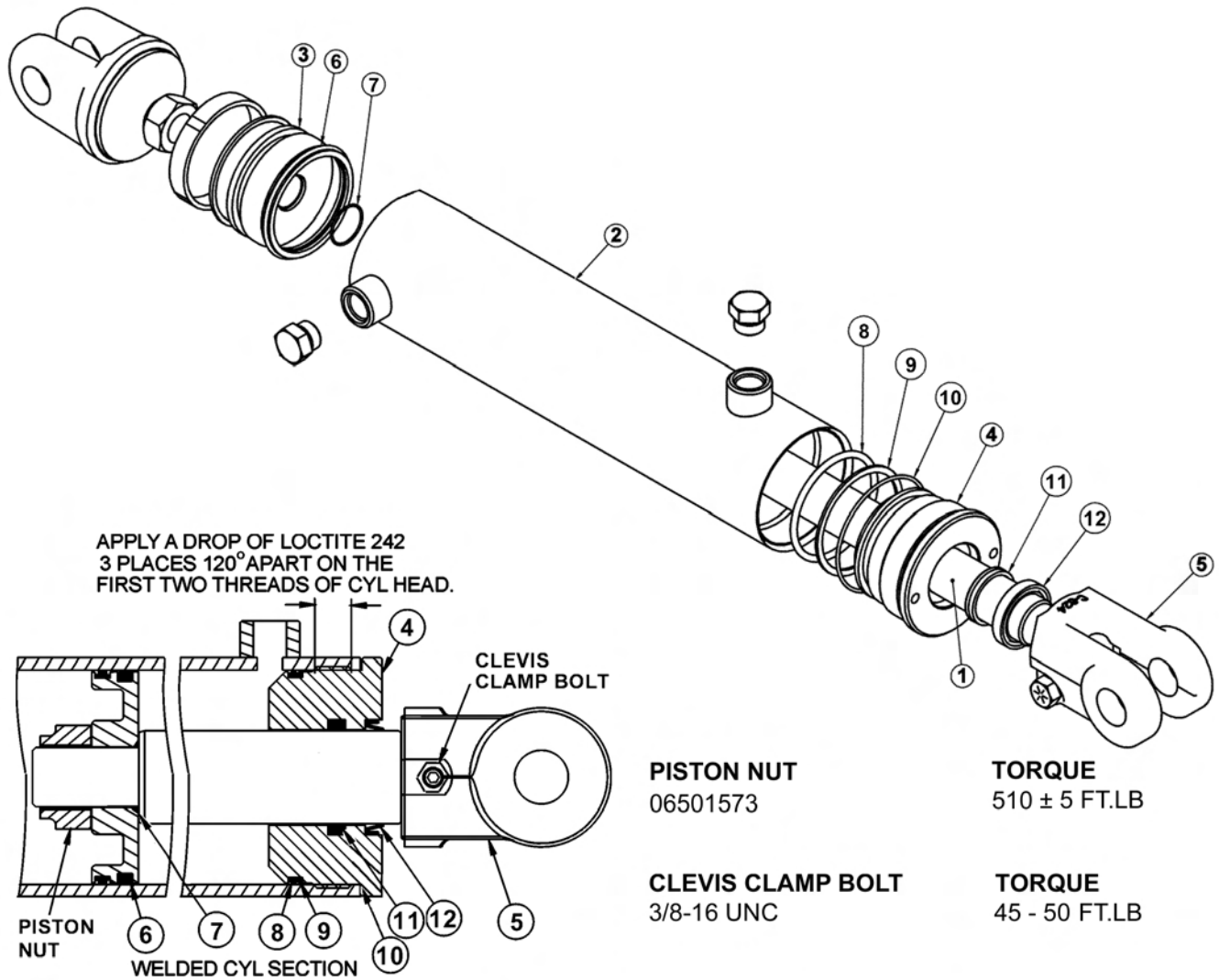
4IN X 9IN WELDED CYLINDER BREAKDOWN



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

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

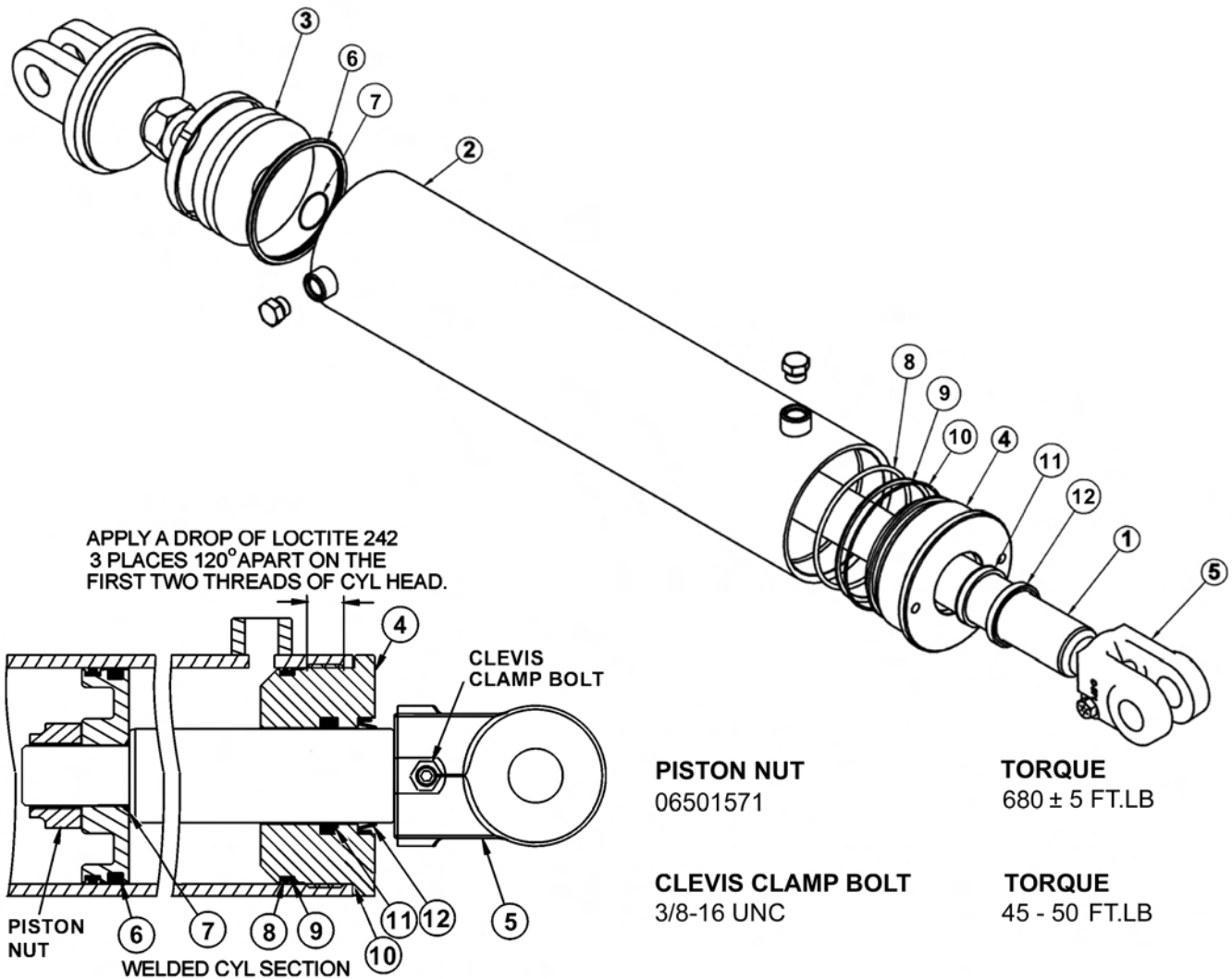
4IN X 20IN WELDED CYLINDER BREAKDOWN



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) |

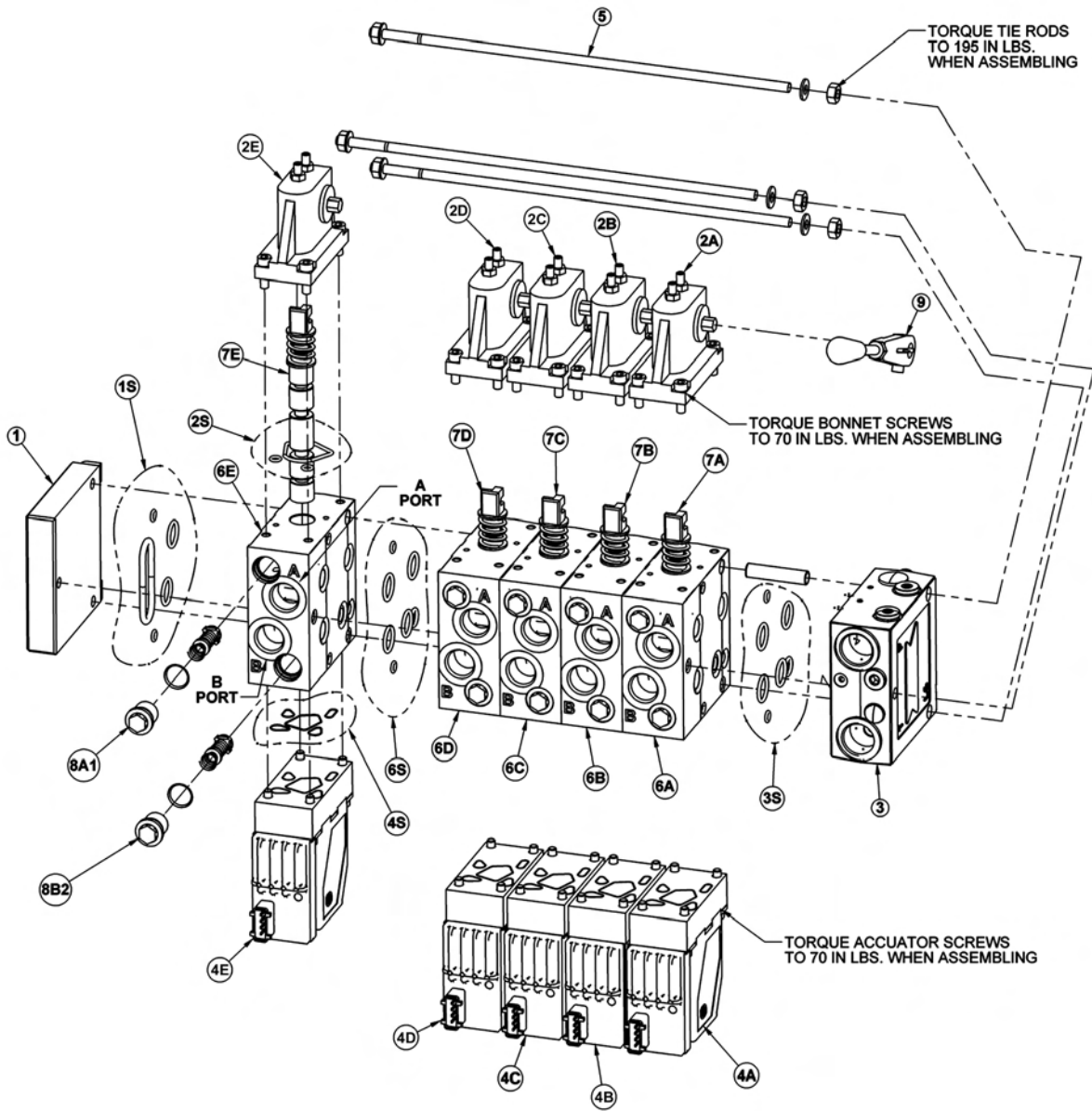
5IN X 20IN WELDED CYLINDER BREAKDOWN



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) |

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 |

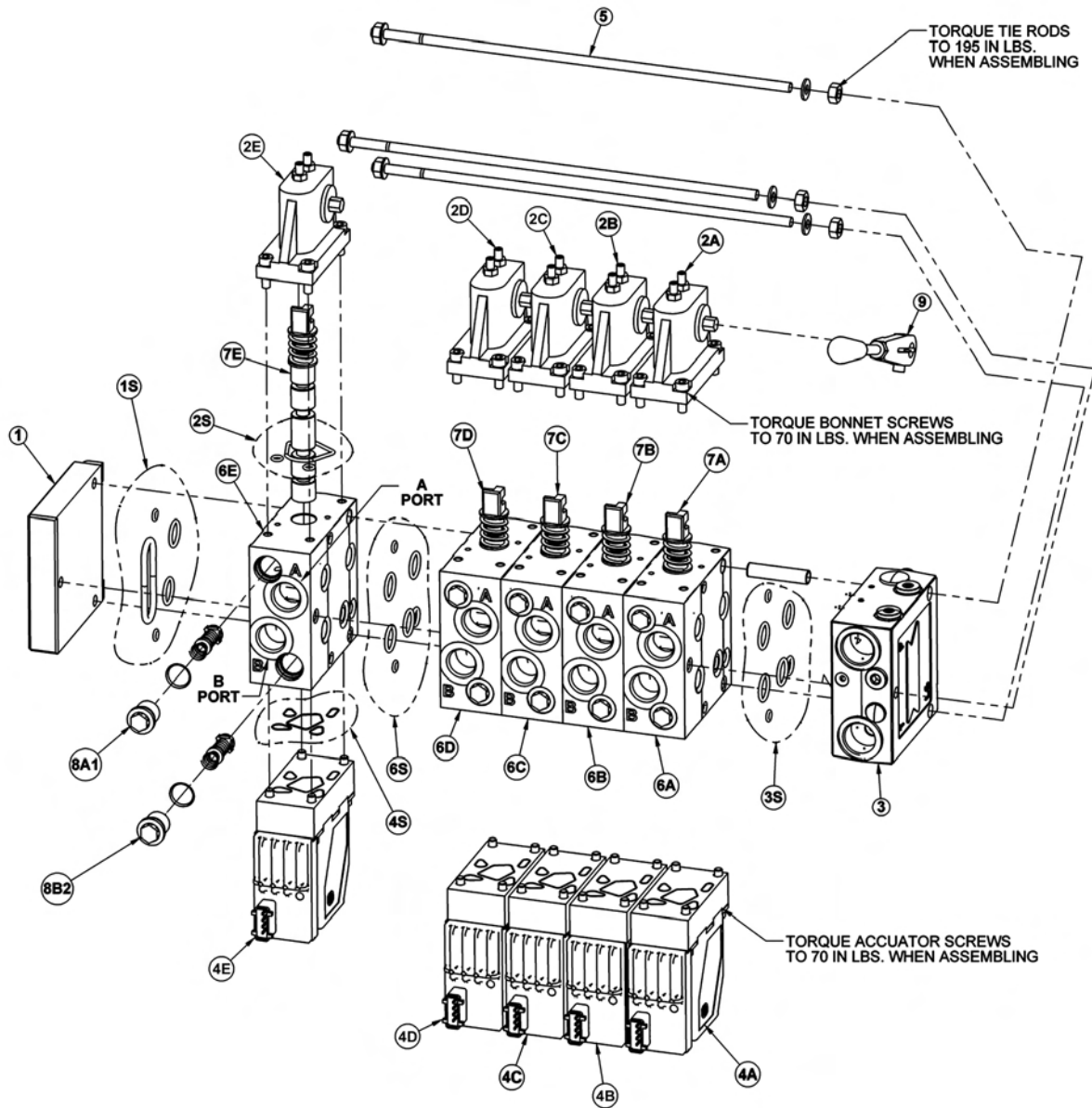
5 SPOOL ELECTRONIC VALVE - SIDE STOW

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 |

COMMON BENGAL

5 SPOOL ELECTRONIC VALVE - OPEN STOW,3PS



| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|------------------------------|
| ----- | 06502097 | - | VLV,5SP,32PVG,OPEN STOW, 3OS |
| 1 | 06502074 | 1 | END PLATE |
| 1S | 06505013 | 1 | END PLATE SEAL KIT |
| 2 | ----- | 5 | BONNET |
| 2S | 06505042 | 1 | BONNET SEAL KIT |
| 2A | 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 |

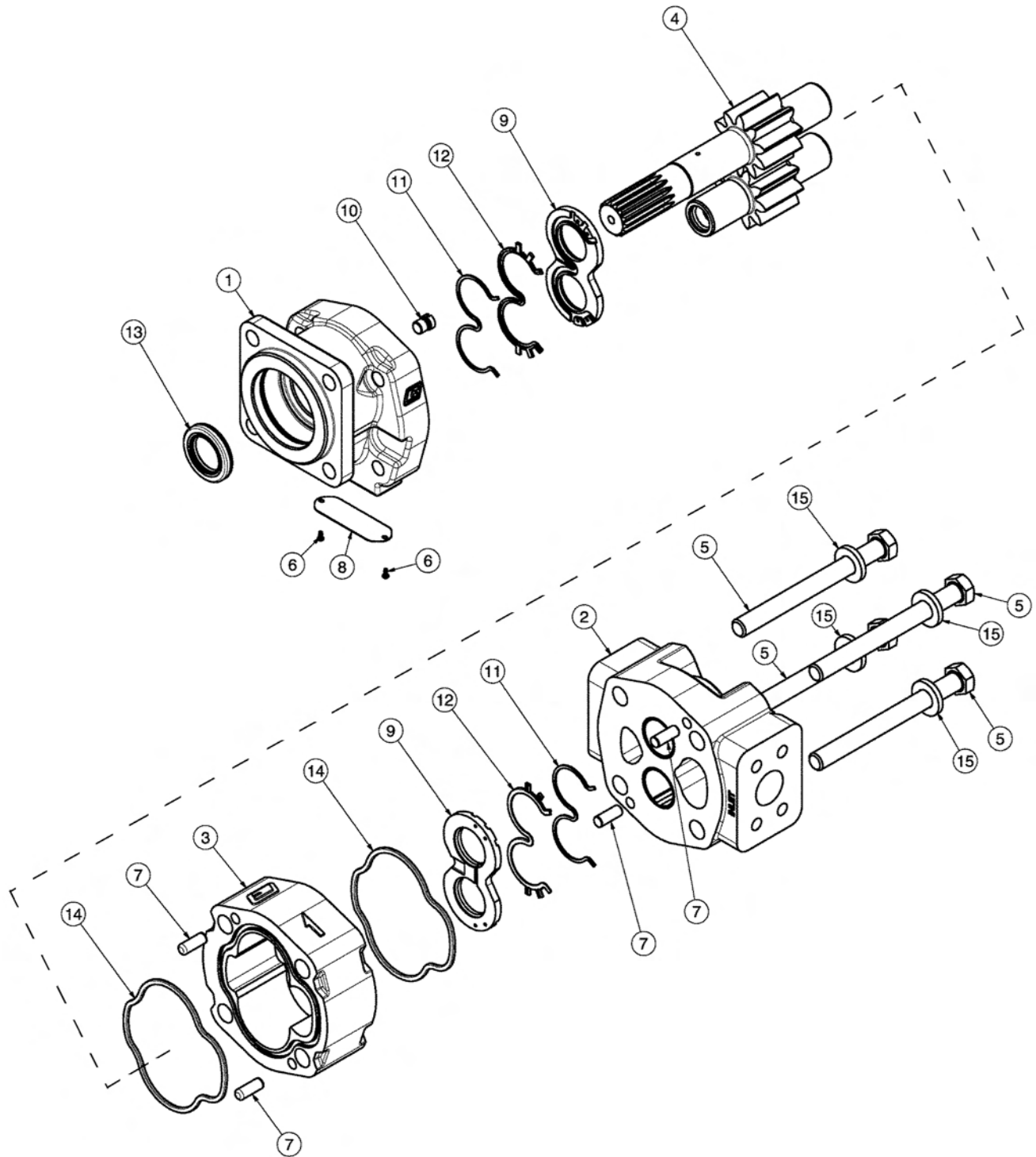
5 SPOOL ELECTRONIC VALVE - OPEN STOW,3PS

Continued...

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

COMMON BENGAL

FRONT HYDRAULIC PUMP

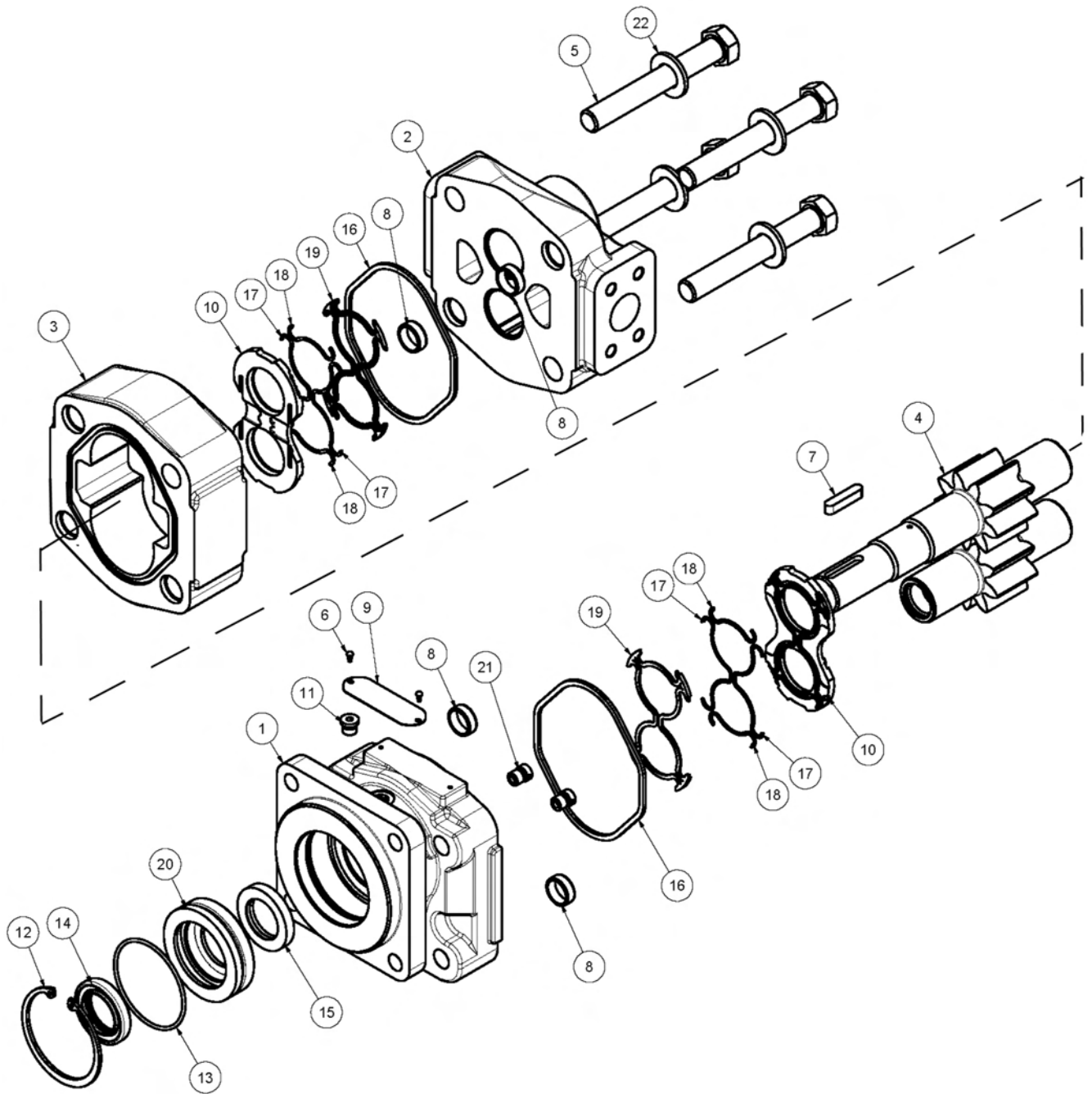


FRONT HYDRAULIC PUMP

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



COMMON BENGAL

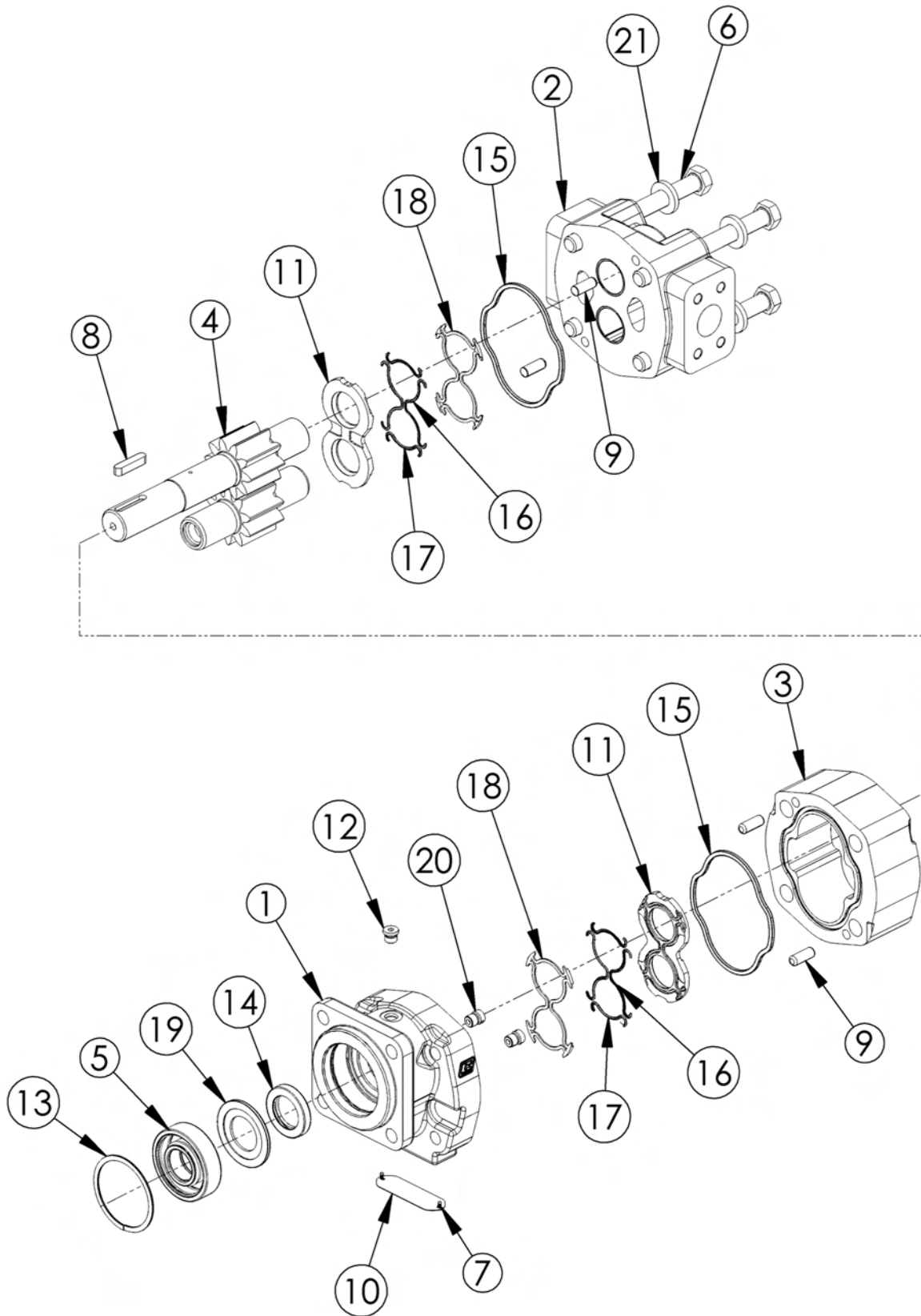
50IN AND 60IN ROTARY MOTOR BREAKDOWN

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 |

COMMON BENGAL

50IN AND 63IN FLAIL MOTOR BREAKDOWN



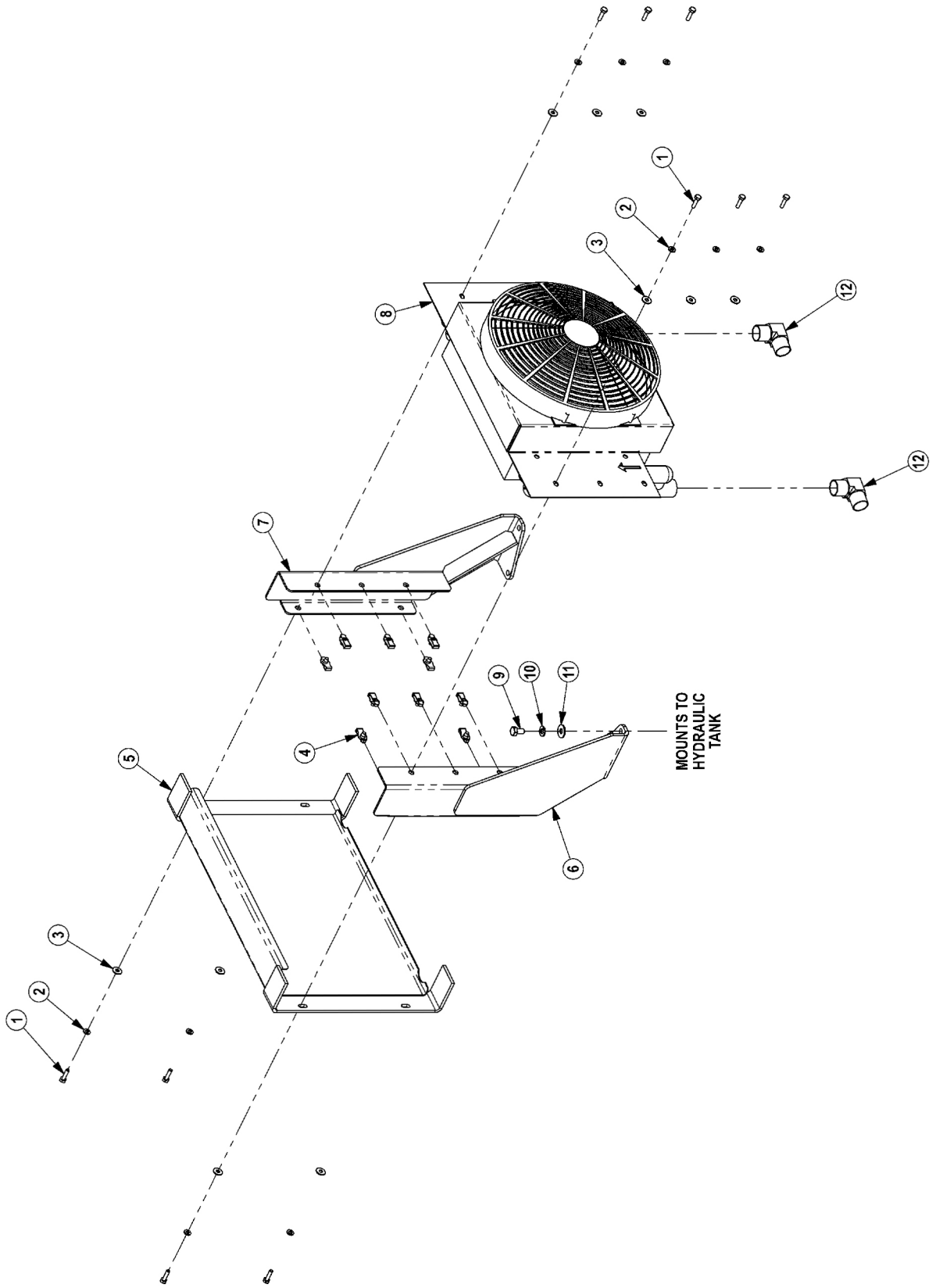
COMMON BENGAL

50IN AND 63IN FLAIL MOTOR BREAKDOWN

Continued...

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

COOLER ASSEMBLY



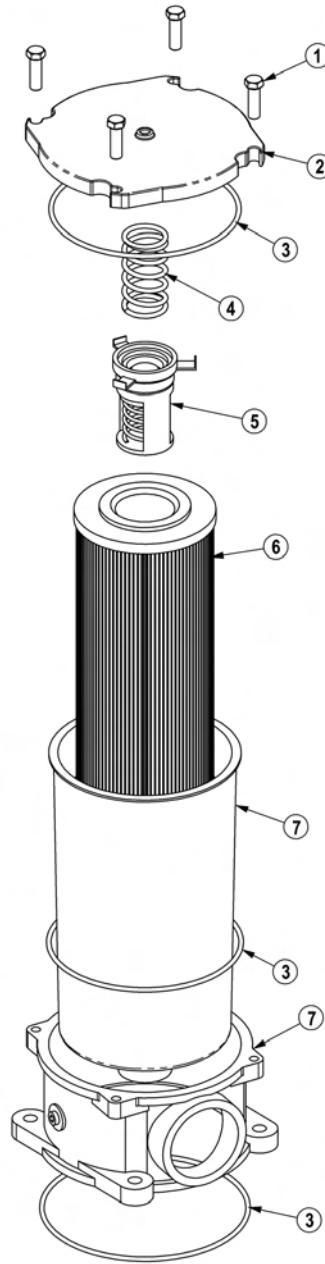
COOLER ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 21530 | 10 | CAPSCREW,1/4 X1 NC |
| 2 | 21986 | 10 | LOCKWASHER,1/4 |
| 3 | 22014 | 10 | FLATWASHER,1/4 |
| 4 | 35176 | 10 | 1/4 U-NUT |
| 5 | 06370015 | 1 | SCREEN,COOLER,FRNT |
| 6 | 06380006 | 1 | MNT,COOLER,BUMPER TANK,RH |
| 7 | 06380007 | 1 | MNT,COOLER,BUMPER TANK,LH |
| 8 | 06510026 | 1 | COOLER,FRONT MNT |
| --- | 06510029 | 1 | FAN ASSY, ONLY |
| 9 | 21629 | 4 | CAPSCREW,3/8 X 3/4 NC |
| 10 | 21988 | 4 | LOCKWASHER,3/8 |
| 11 | 22016 | 4 | FLATWASHER,3/8 |
| 12 | 34117 | 2 | ELBOW,1MOR X 1MJ90,FORGED |

COMMON BENGAL

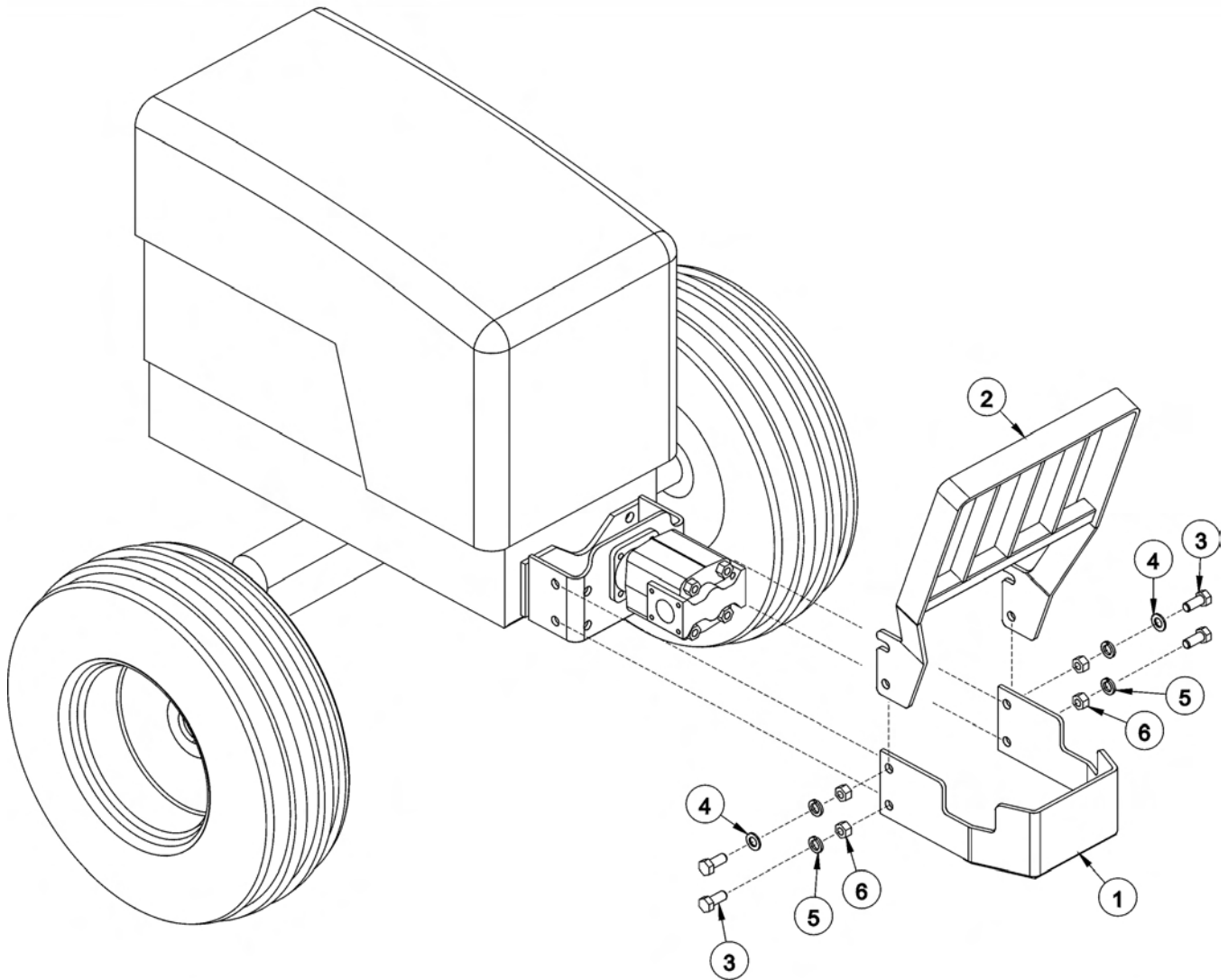
RESERVOIR TANK FILTER ASSEMBLY



| 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

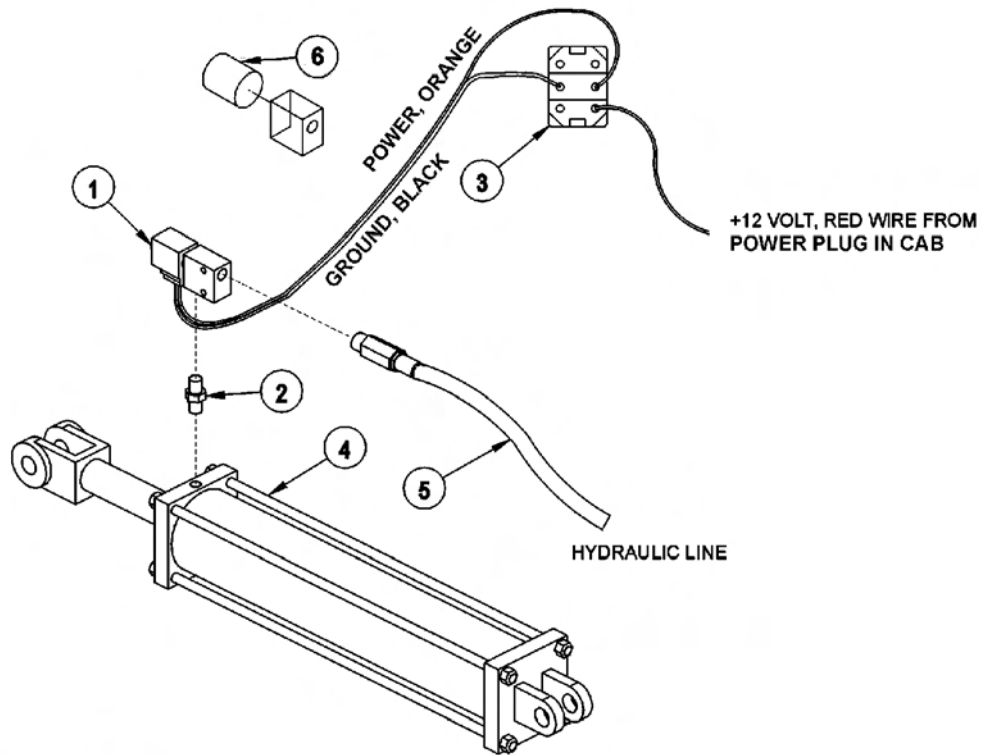
PUMP AND GRILL GUARD OPTIONS



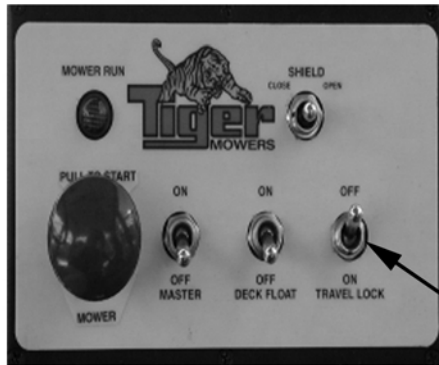
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 32430 | 1 | UNIVERSAL PUMP GUARD |
| 2 | 32737 | 1 | UNIVERSAL GRILL GUARD |
| 3 | 21833 | 4 | CAPSCREW,3/4" X 2-1/4",NC |
| 4 | 22021 | 2 | FLATWASHER,3/4" |
| 5 | 21993 | 4 | LOCKWASHER,3/4" |
| 6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

COMMON BENGAL

BOOM TRAVEL LOCK



DANFOSS SWITCH BOX



TRAVEL LOCK SWITCH

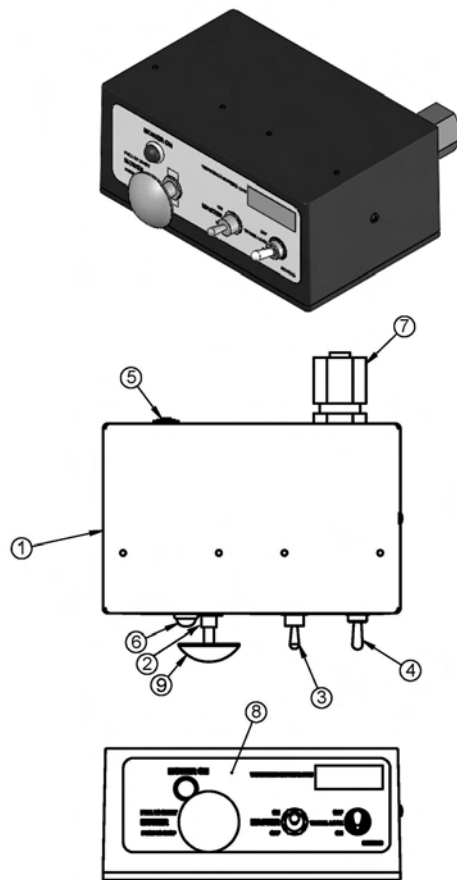
HUSCO SWITCH BOX



TRAVEL LOCK SWITCH

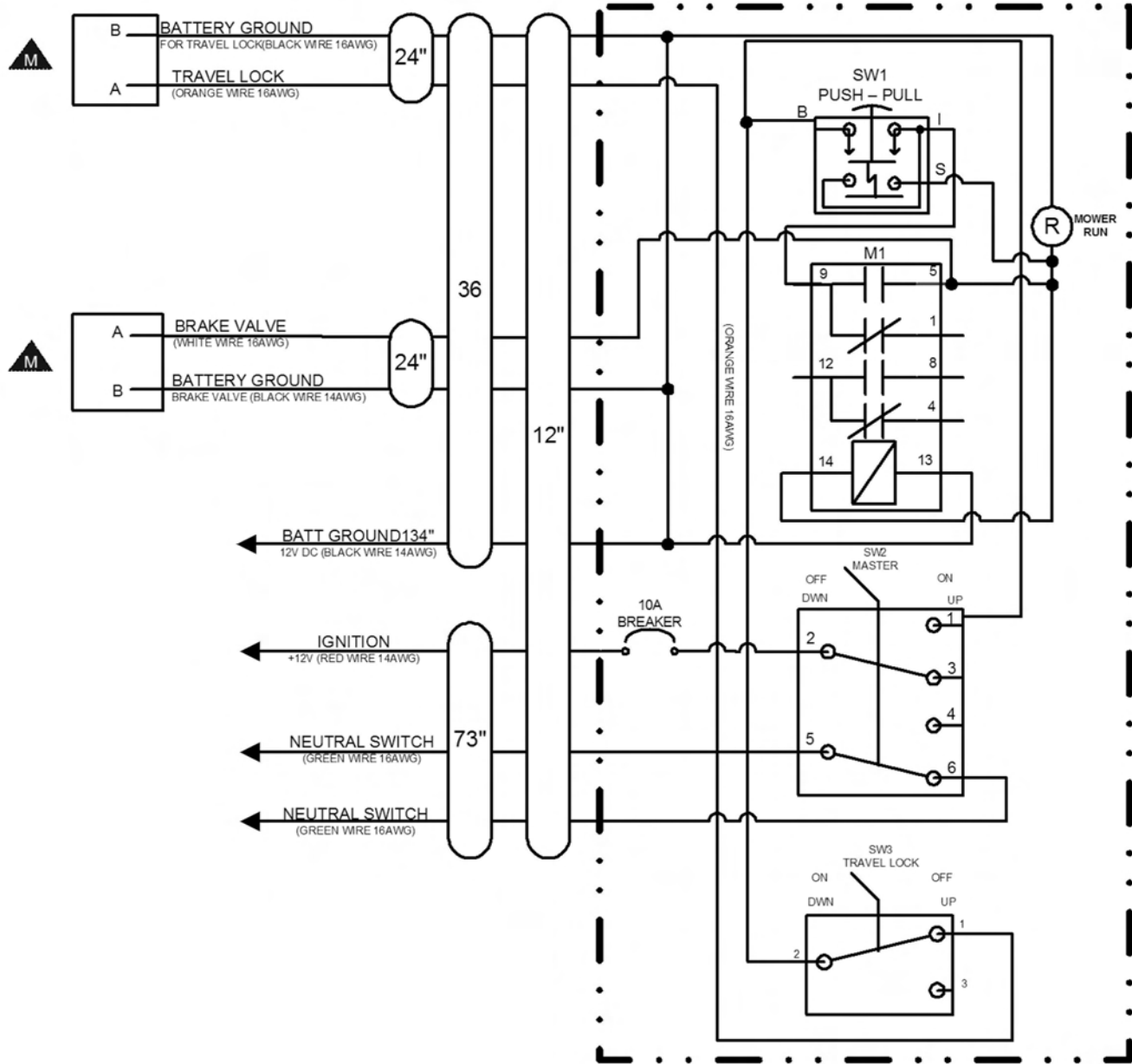
| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|---|
| 1 | 06510050 | 1 | HYDRAULIC TRAVEL LOCK VALVE |
| 2 | 31329 | 1 | ADAPTER - STANDARD BOOM |
| ----- | 31611 | 1 | ADAPTER - EXTENDED BOOM |
| 3 | 34532 | 1 | SWITCH, TRAVEL LOCK |
| 4 | ----- | - | MAIN BOOM CYLINDER *REFER TO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

MANUAL LIFT VALVE SWITCH BOX

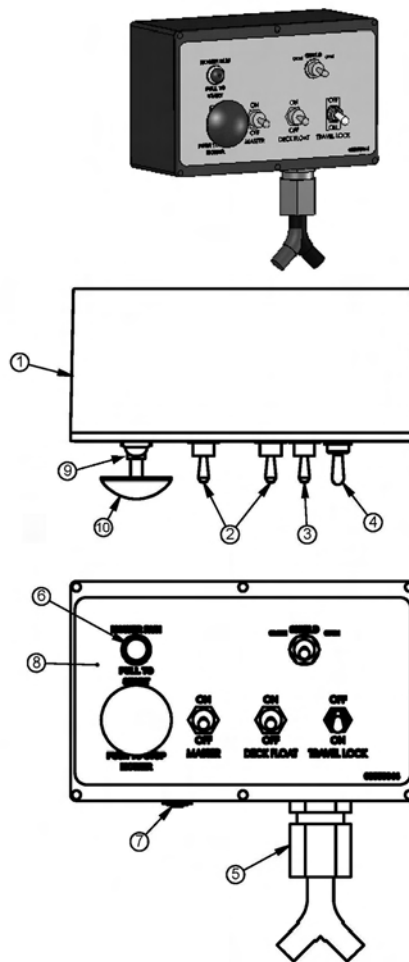


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------|
| 1 | 06514012 | 1 | SWBX,ALUM,BLK,06510100 |
| 2 | 35226 | 1 | SWITCH,MOWER,COLEHERSEE |
| 3 | 33811 | 1 | SWITCH,MASTER/DECK FLOAT |
| 4 | 34532 | 1 | SWITCH,TRVL LCK |
| 5 | 06514014 | 1 | BREAKER,10A,SWBX |
| 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

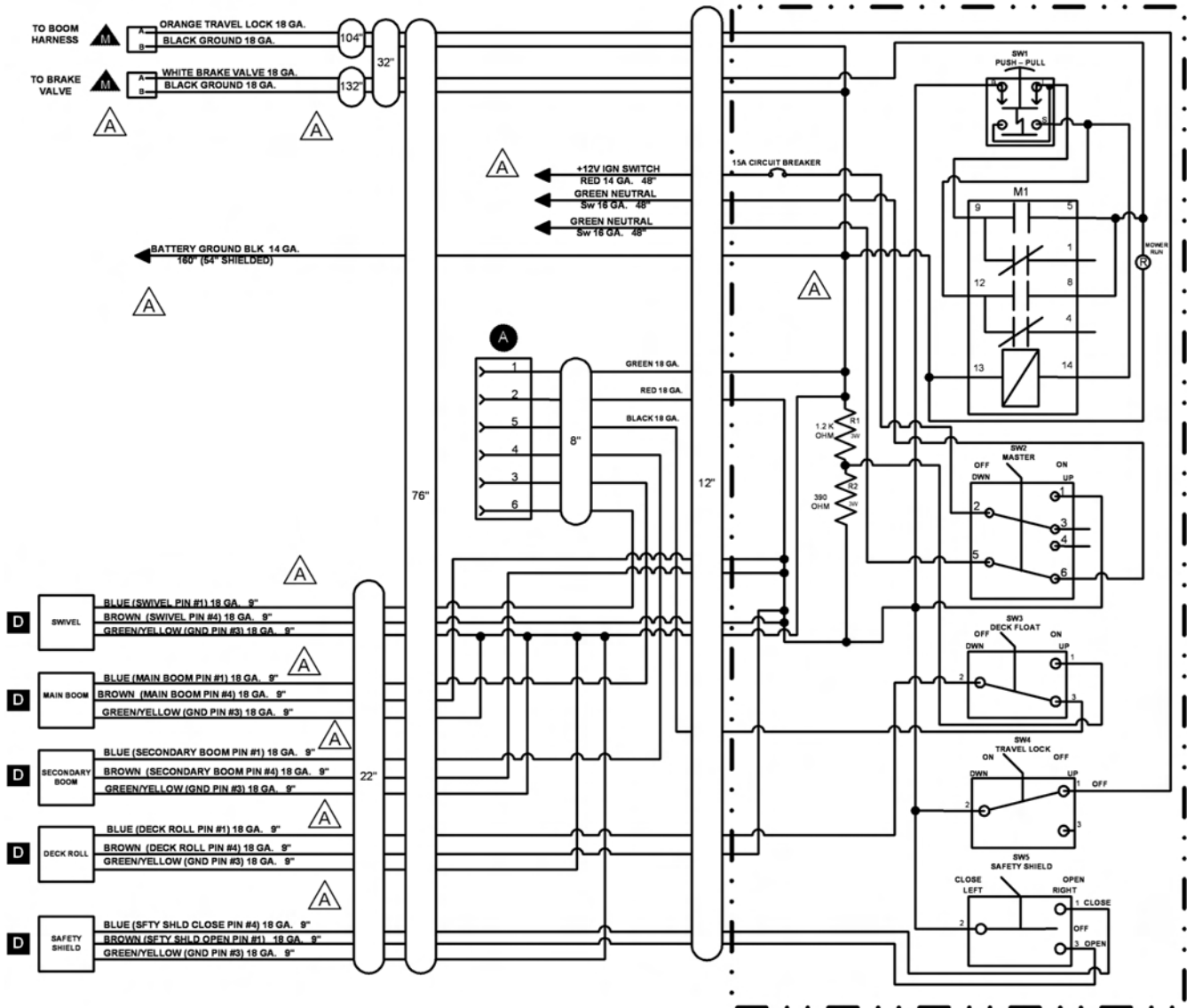


ELECTRONIC LIFT VALVE SWITCH BOX

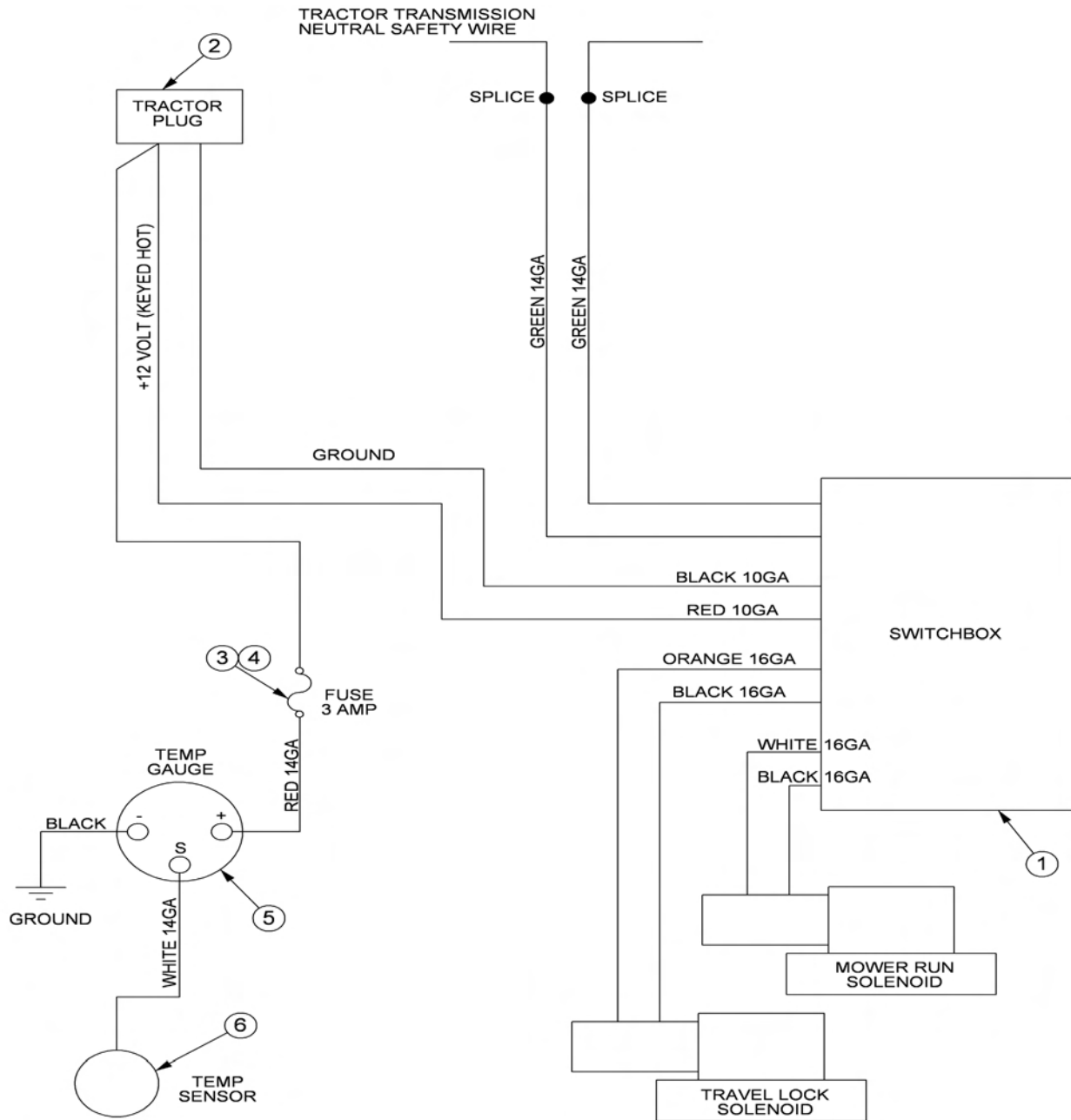


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 1 | 06510196 | 1 | SWBX, ASSY |
| 2 | 33811 | 2 | SWITCH, MASTER/DECK FLOAT |
| 3 | 33813 | 1 | SWITCH, SFTY SHIELD |
| 4 | 34532 | 1 | SWITCH, TRVL LCK |
| 5 | 34540 | 1 | STRAIN RELIEF, 3/4", BLACK, NYLON |
| 6 | 6T3923 | 1 | INDICATOR 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

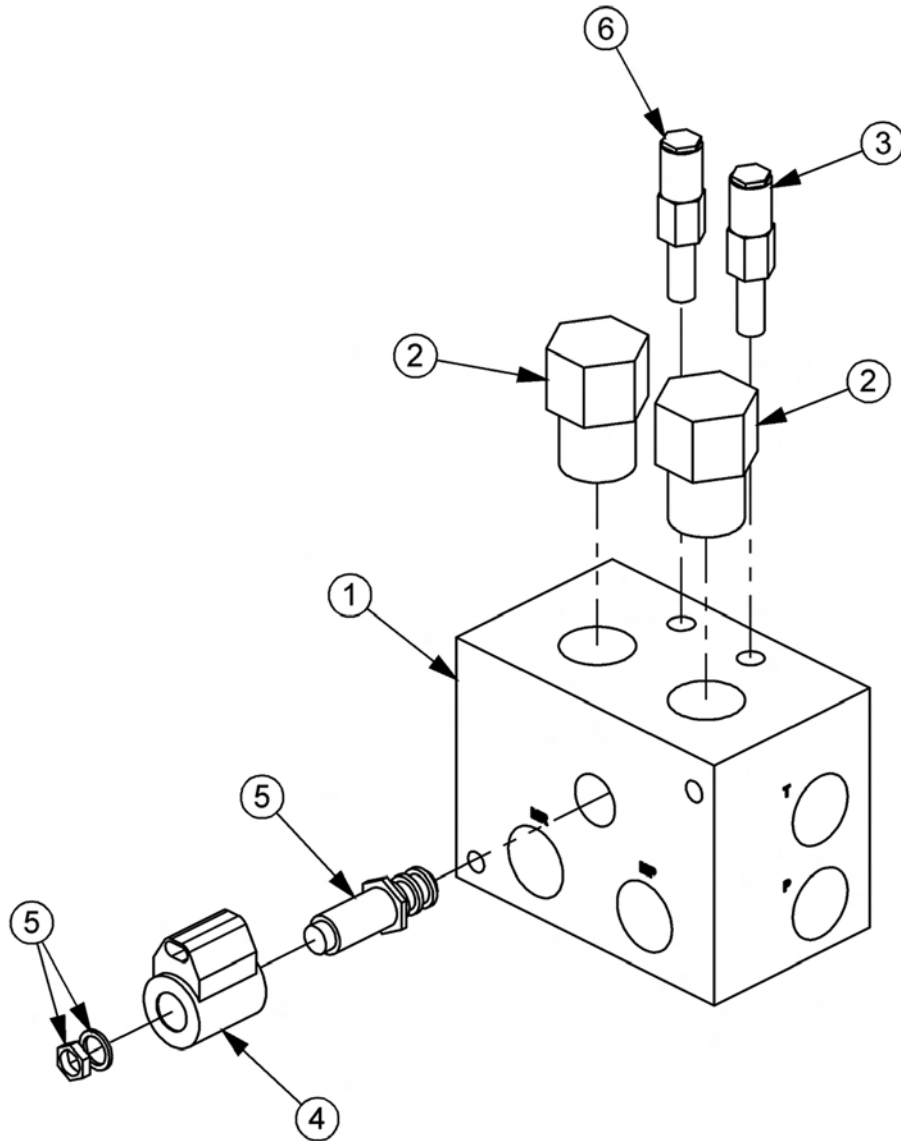


SOLENOID SWITCH BOX AND WIRING



| 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) |

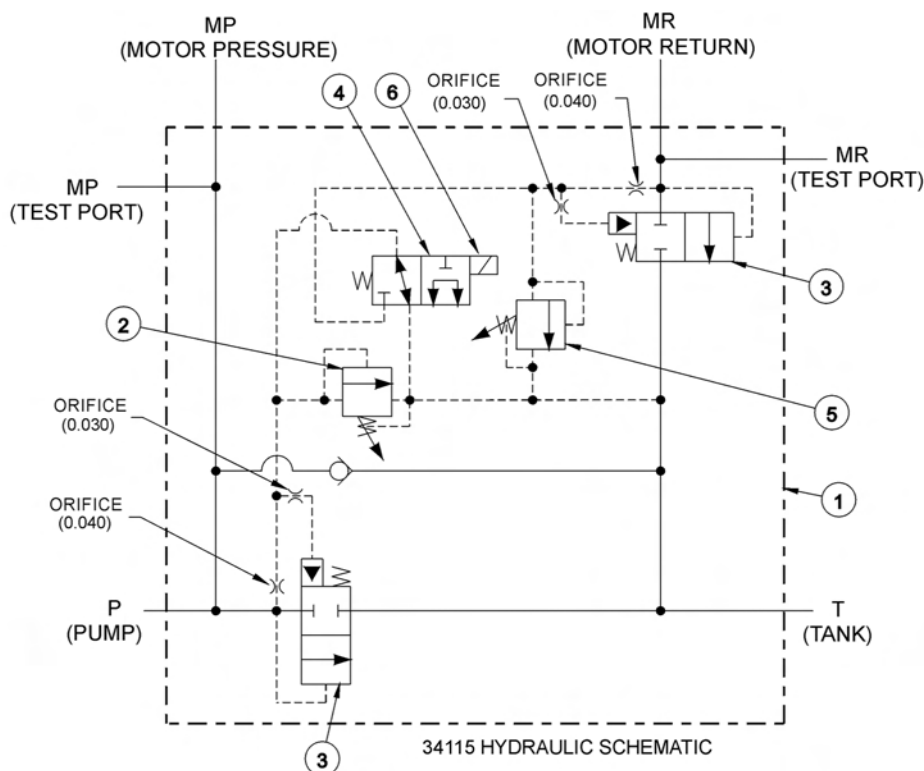
BRAKE VALVE ASSEMBLY



| 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 |

COMMON BENGAL

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

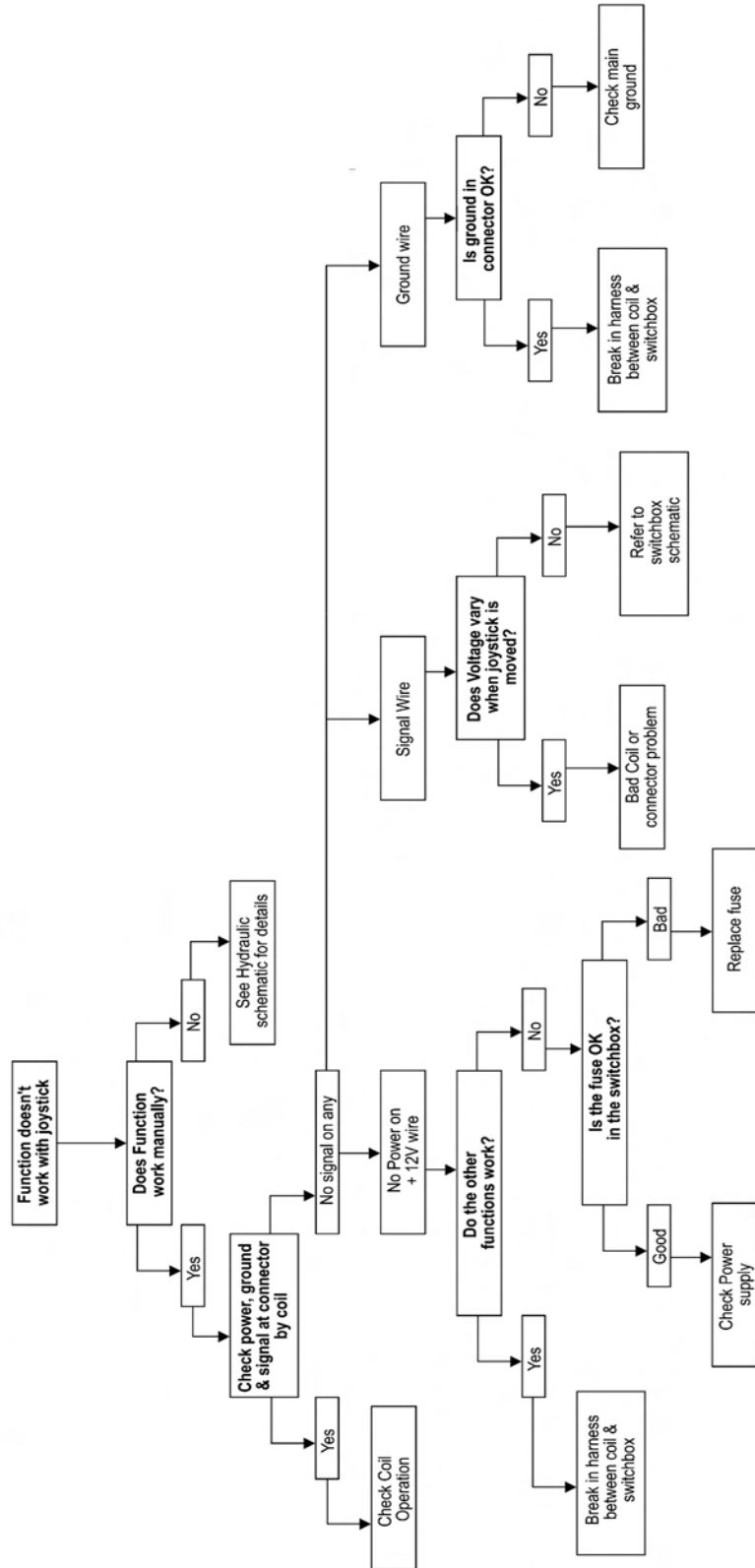
- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

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.

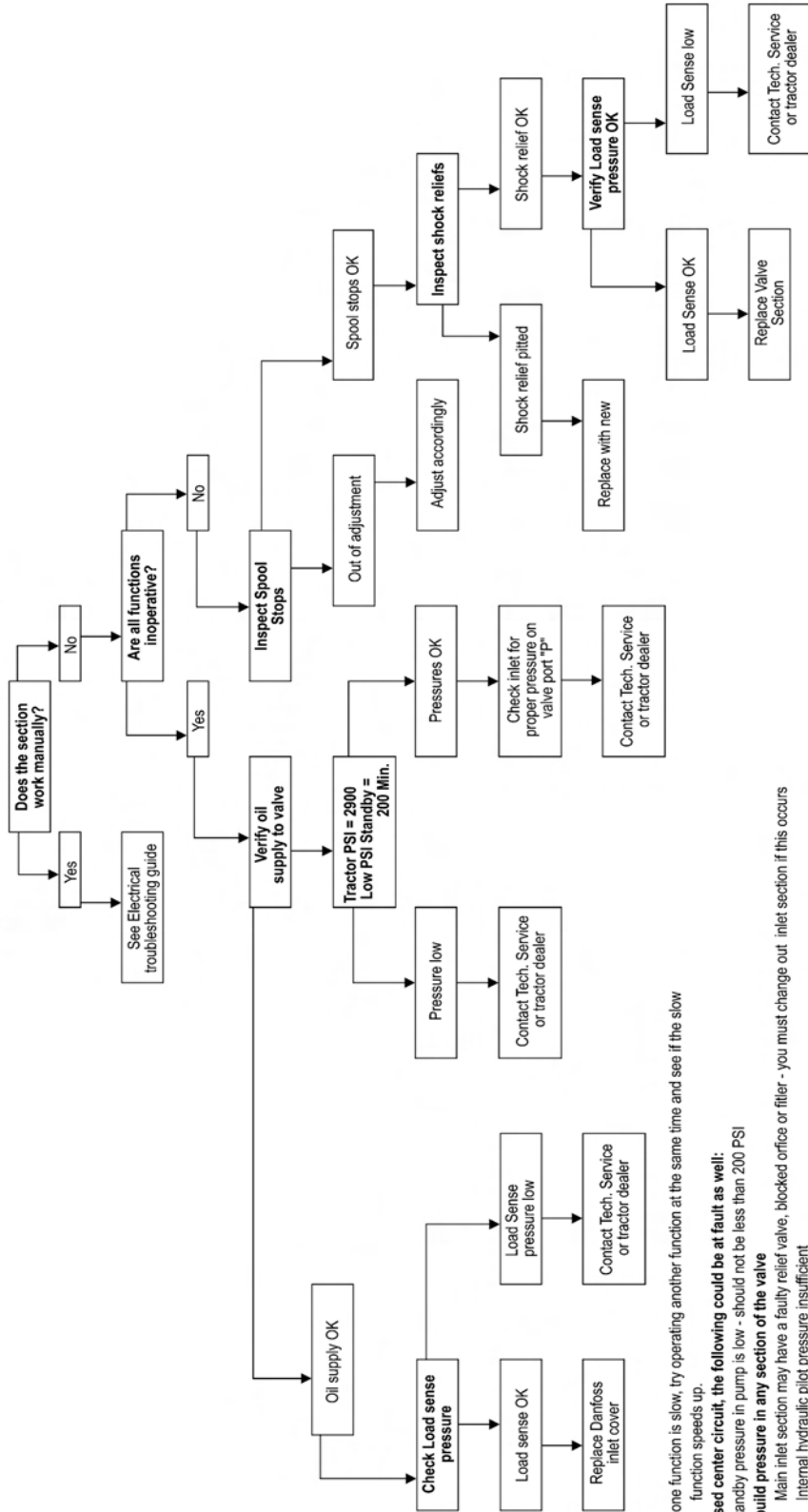
ELECTRICAL TROUBLESHOOTING GUIDE

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

TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.
Isolate hydraulic vs. electronic symptom.

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

Electronic inspection.

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

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

Pin #1 – Supply Voltage
Pin #2 – Signal Voltage
Pin #gnd – 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 – Supply Voltage
Pin #2 – Signal Voltage
Pin #gnd – ground

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

Pin #1 – Signal Voltage
Pin #2 – Signal Voltage
Pin #gnd – ground

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

Possible electronic problems.

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

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING - CONTINUED

Hydraulic inspection.

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

With the spools in Neutral

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

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

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

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

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

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

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

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

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

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

Operate more than one spool.

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

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

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

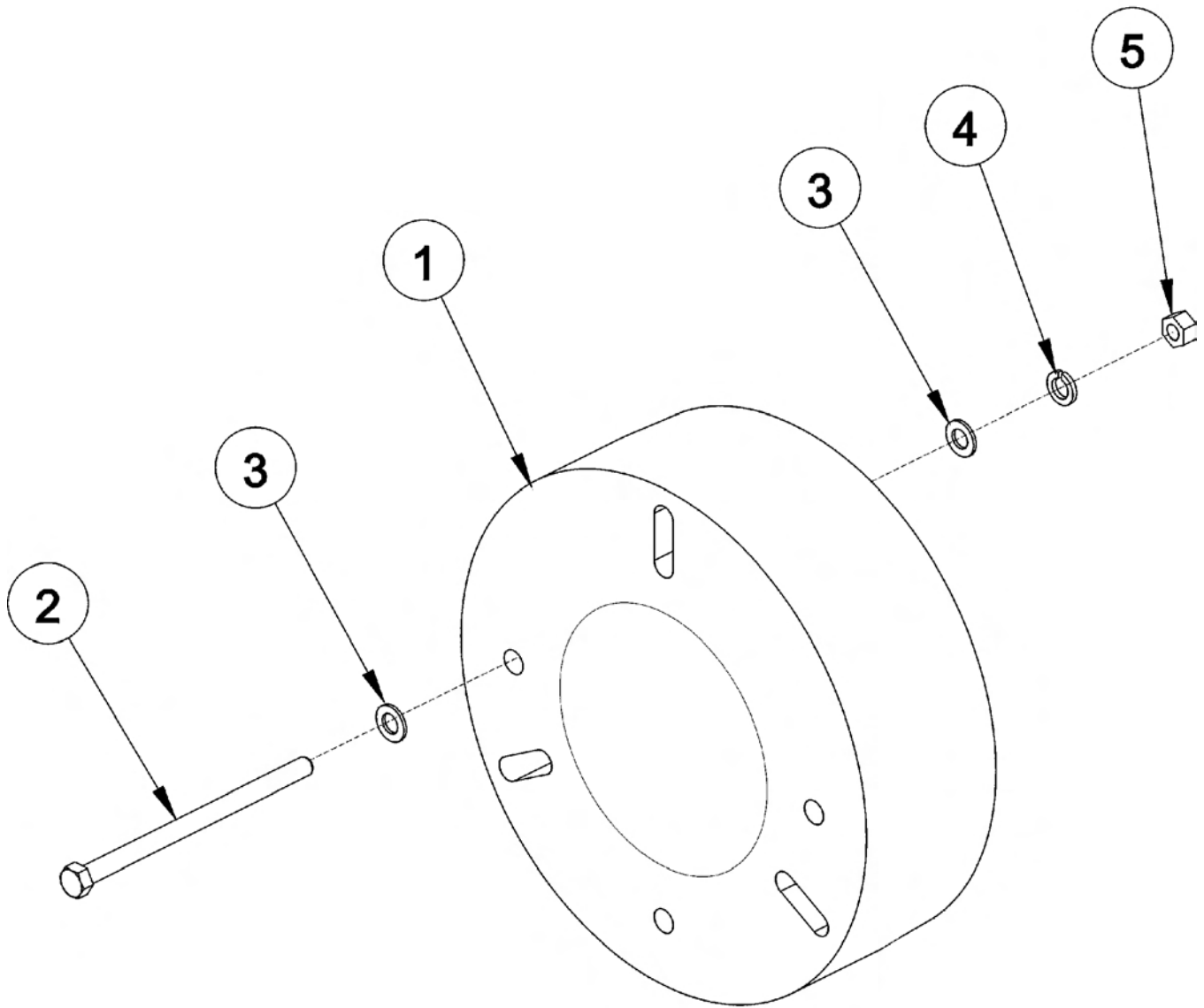
Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

WHEEL WEIGHT - BENGAL 18



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

COMMON BENGAL

CLEAN CUTTER HEAD

**CLEAN CUTTER
SECTION**

CLEAN CUTTER ASSEMBLY

CAUTION!



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

CAUTION!



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

CLEAN CUTTER BLADE MOUNTING

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

DANGER!



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



CLEAN CUTTER OPERATION

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.



OPERATING INSTRUCTIONS

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

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

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

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

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

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

CLEAN CUTTER OPERATION - CONTINUED

WARNING!



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

DANGER!



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



WARNING!



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



DANGER!



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.



WARNING!



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

MAINTENANCE INSTRUCTIONS

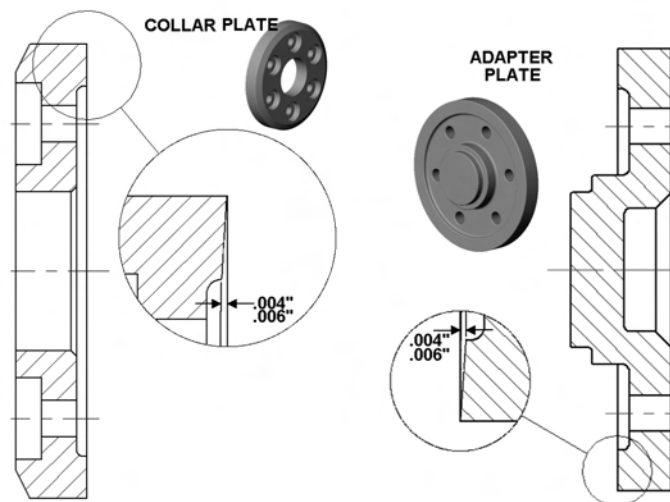
Inspect clean cutter saw before each use. Re-torque spindle bolts in an alternating pattern to 204 ft-lbs. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose tooth assemblies by hammer and or replacing rivets. If teeth tips are broken, chipped, or missing, replace tip or replace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

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

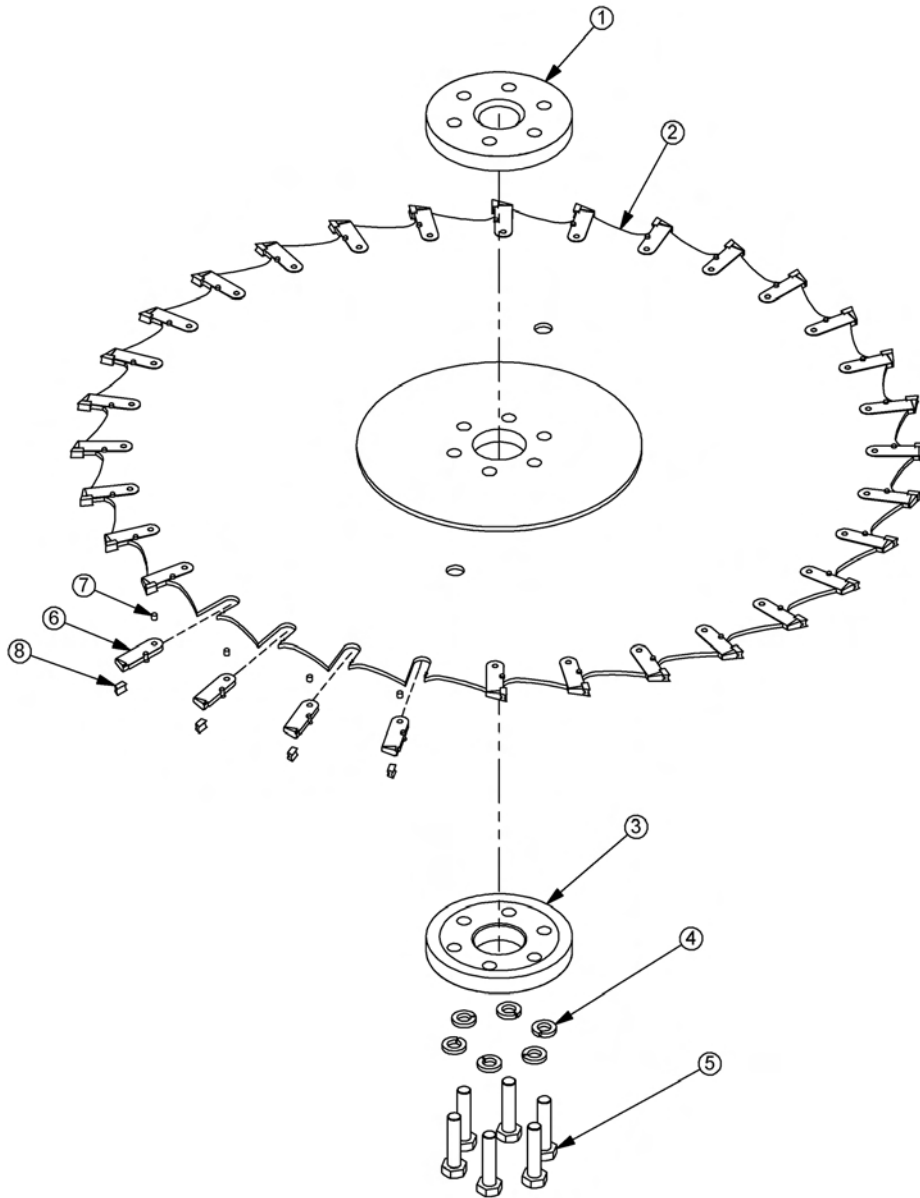
Check adapter and collar every time saw is changed, maintain the .004 to .006 inch taper (see figure below) on inside face (surface against saw blade) of these two (2) items. Always clean inside face of adapter and collar before mounting the blade. If adapter or collars are worn, chipped, or damaged,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

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

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



CLEAN CUTTER BLADE AND TEETH PARTS

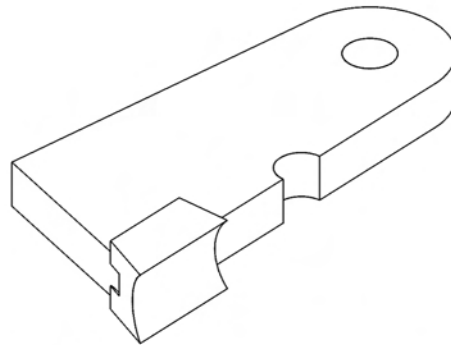


| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|--------------------------------|
| 1 | 06420024 | 1 | ADAPTER,SAW,TRB50,RNFRCD |
| 2 | 06520224 | 1 | BLADE, 48" SAW WITH TEETH |
| 3 | 06420037 | 1 | COLLAR,SAW,TRB50,RNFRCD |
| 4 | 33764 | 6 | FLATWASHER,5/8,GR 8,SAE |
| 5 | 06530209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

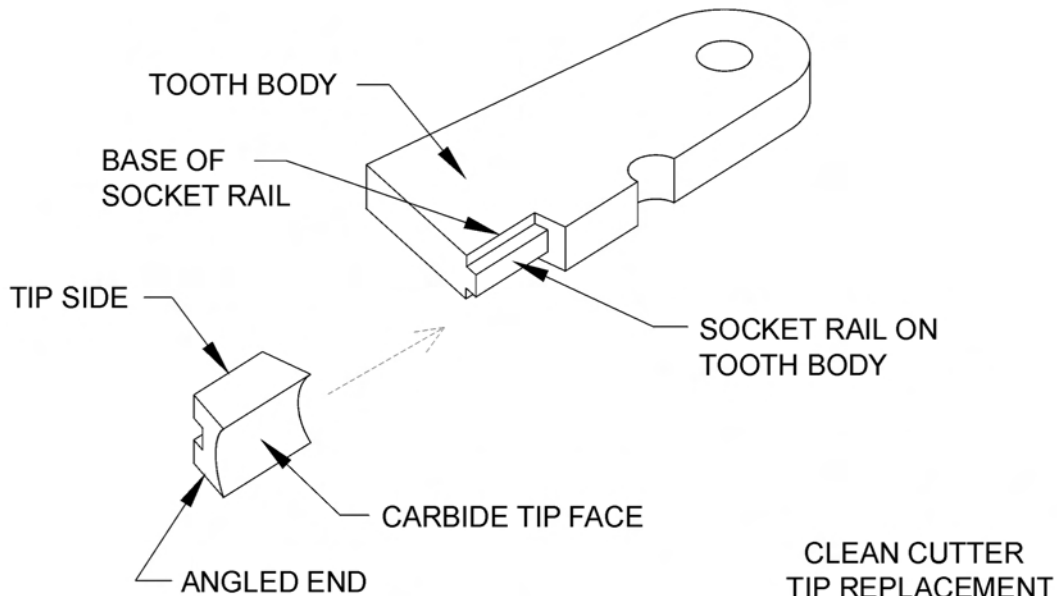
COMMON BENGAL

CARBIDE TIP REPLACEMENT

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



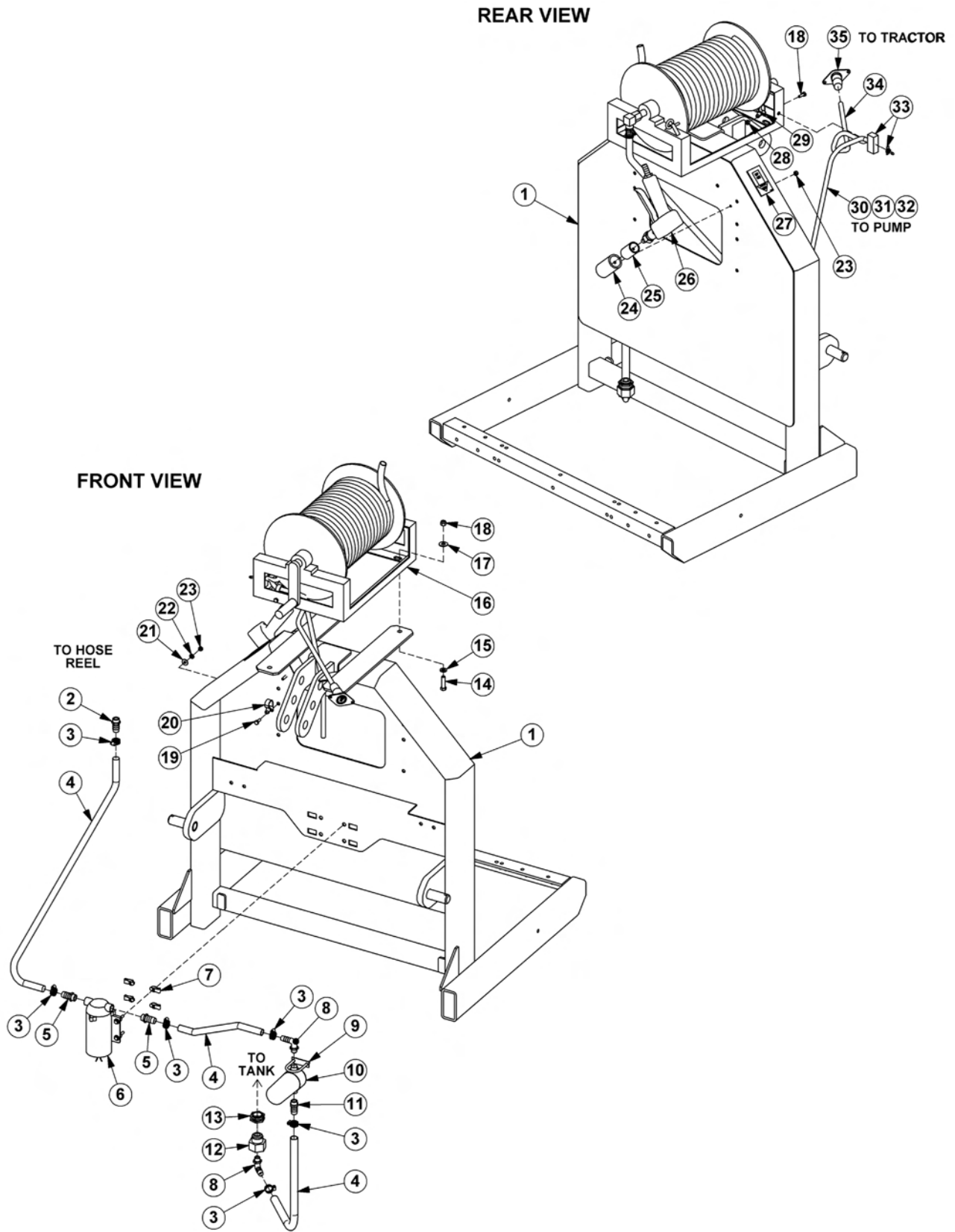
VIEW OF ASSEMBLED TOOTH



NOTES

**FIRE SUPPRESSION SYSTEM
SECTION**

FIRE SUPPRESSION 3-POINT MOUNT



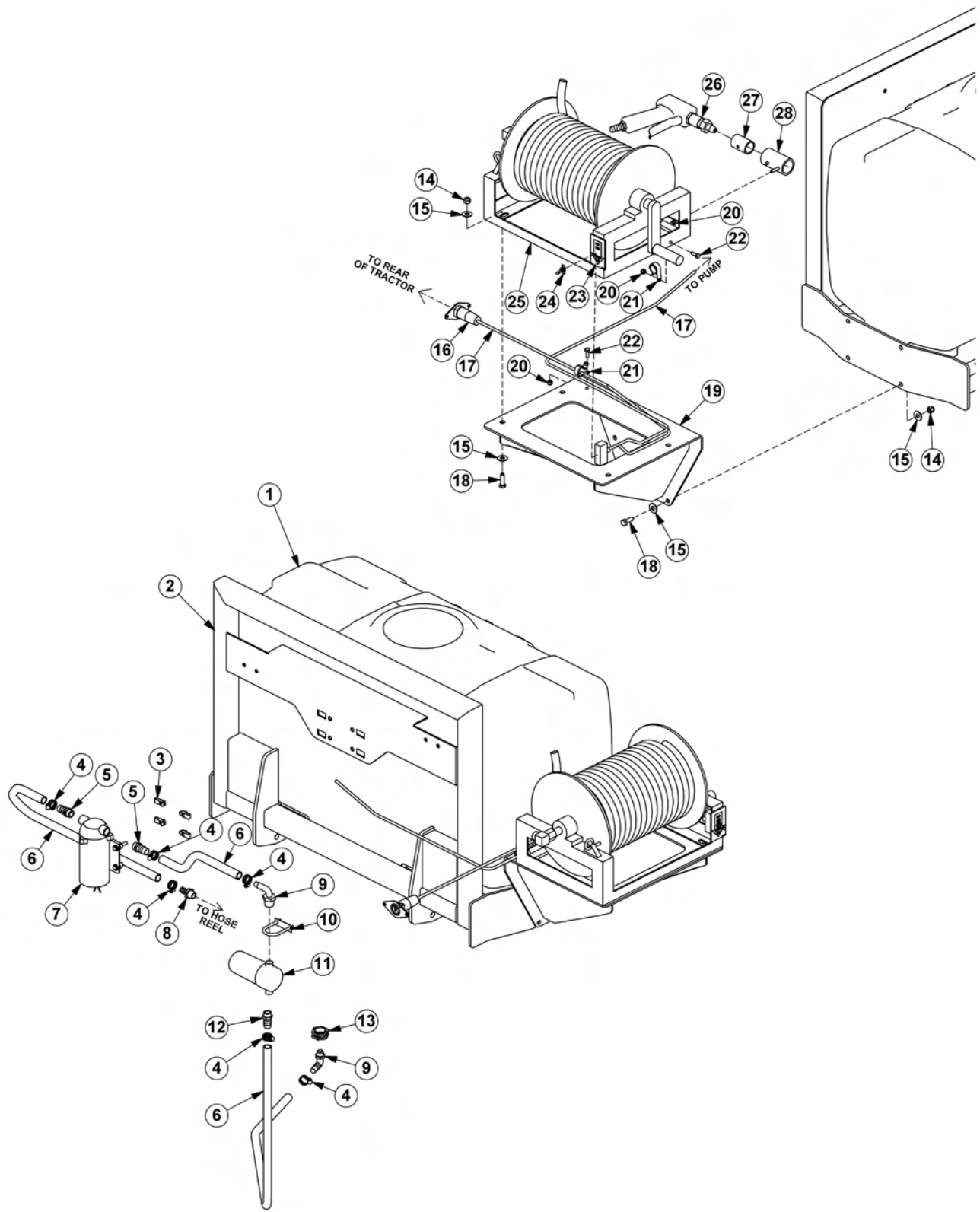
FIRE SUPPRESSION 3-POUNT MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370137 | 1 | MOUNT,3PNT,FIRE SYS |
| 2 | 06503108 | 1 | FITTING,1/2"BARB X 1/2"MP |
| 3 | 35091 | 6 | CLAMP,HOSE,#6 |
| 4 | 06520469 | 5 | HOSE,1/2",BULK (FEET) |
| 5 | 06503168 | 2 | SWIVEL,1/2"STR,POLY |
| 6 | 06520359 | 1 | PUMP,LARGE |
| 7 | 35176 | 4 | U-NUT,1/4" |
| 8 | 06520367 | 2 | ELBOW,1/2"BARB X 1/2"MP,POLY |
| 9 | 27329 | 1 | U-BOLT,1/4" |
| 10 | 06520361 | 1 | FILTER |
| --- | 06520351 | 1 | ELEMENT,FILTER |
| 11 | 06520349 | 1 | FITTING,BARB,HOSE |
| 12 | 06503169 | 1 | REDUCER,BUSHING (100 & 150 GALLON TANKS ONLY) |
| 13 | 06520346 | 1 | FITTING,BULKHEAD (50 GALLON TANKS ONLY) |
| 14 | 21632 | 4 | CAPSCREW,3/8" X 1-1/2",NC |
| 15 | 21988 | 4 | LOCKWASHER,3/8" |
| 16 | 06520360 | 1 | HOSE REEL |
| 17 | 22016 | 4 | FLATWASHER,3/8" |
| 18 | 21627 | 4 | NYLOCK NUT,3/8",NC |
| 19 | 21529 | 2 | CAPSCREW,1/4" X 3/4",NC |
| 20 | 06510258 | 1 | CLAMP,3/4" |
| 21 | 22014 | 1 | FLATWASHER,1/4" |
| 22 | 21986 | 1 | LOCKWASHER,1/4" |
| 23 | 21525 | 2 | HEX NUT,1/4",NC |
| 24 | 06370121 | 1 | HOLSTER |
| 25 | 06430090 | 1 | SLEEVE |
| 26 | 06520366 | 1 | GUN,FIRE SYS |
| 27 | 6T3222 | 1 | DECAL |
| 28 | 21527 | 1 | NYLOCK NUT,1/4",NC |
| 29 | 06510257 | 1 | CLAMP,3/8" |
| 30 | 28055 | 5 | WIRE,BLACK,14GA (FEET) |
| 31 | 24200 | 5 | WIRE,RED,14GA (FEET) |
| 32 | 22802 | 5 | WIRE WRAP (FEET) |
| 33 | PT3905A | 1 | SWITCH |
| 34 | 06510256 | 4 | CABLE,14GA,4WIRE (FEET) |
| 35 | 06510255 | 1 | PLUG,7PIN,TRCTR |

COMMON BENGAL

FIRE SUPPRESSION FRONT MOUNT



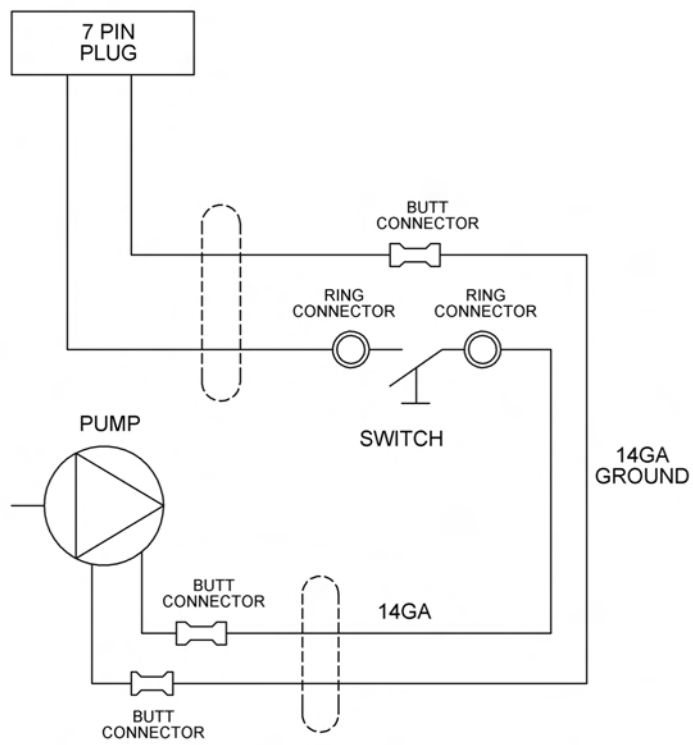
FIRE SUPPRESSION FRONT MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 06520342 | 1 | TANK,50 GALLON |
| 2 | 06370204 | 1 | MNT,TANK,FRNT,50 GALLON |
| 3 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 4 | 35091 | 6 | CLAMP,HOSE,#6 |
| 5 | 06503168 | 2 | SWIVEL,1/2 STR,POLY |
| 6 | 06520469 | 8 | HOSE,1/2,SPRAYER |
| 7 | 06520359 | 1 | PUMP,FIRE KIT |
| 8 | 06503108 | 1 | FITTING,1/2" BARB X 1/2"MP |
| 9 | 06520367 | 2 | ELBOW,1/2MPX1/2BARB,POLY |
| 10 | 27329 | 1 | U-BOLT,1/4X2X1 |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40 MESH |
| 12 | 06520349 | 1 | FITTING,BARB,HOSE,WETCUT |
| 13 | 06520346 | 1 | FITTING,BULKHEAD |
| 14 | 21627 | 8 | NYLOCK NUT,3/8 NC |
| 15 | 22016 | 16 | FLATWASHER,3/8,GR8 |
| 16 | 06510255 | 1 | PLUG,7PIN,TRCTR |
| 17 | 06510256 | 22 | WIRE,14GA,4WIRE (FEET) |
| 18 | 21631 | 8 | CAPSCREW,3/8X1 1/4, NC,GR8 |
| 19 | 06370207 | 1 | MNT,FIRE SUPPRESSION |
| 20 | 21527 | 3 | NYLOCK NUT,1/4 NC |
| 21 | 06510257 | 2 | CLAMP,3/8X1/4,INS |
| 22 | 21529 | 2 | CAPSCREW,1/4 X 3/4 NC |
| 23 | 6T3222 | 1 | DECAL,CONTROL,ON-OFF SWITCH |
| 24 | PT3905A | 1 | SWITCH,MOWER |
| 25 | 06520360 | 1 | HOSE REEL,FIRE KIT,RAILKUT |
| 26 | 06520366 | 1 | GUN,FIRE KIT,RAILKUT |
| 27 | 06430090 | 1 | SLEEVE,GUN,FIRE SYS |
| 28 | 06370121 | 1 | HOLSTER,FIRESYS,RAILKUT |

COMMON BENGAL

FIRE SUPPRESSION SYSTEM ELECTRICAL SCHEMATIC

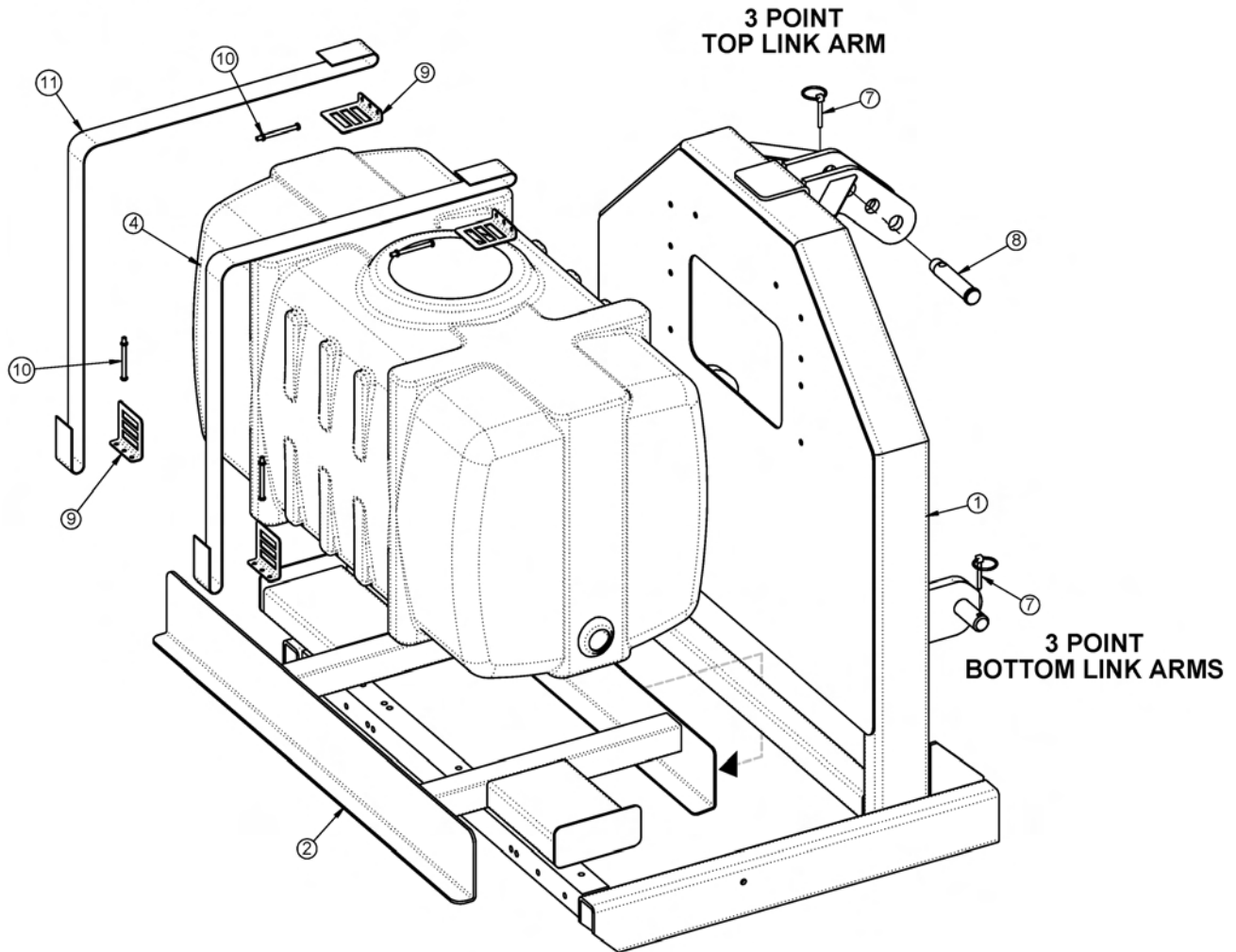


WETCUT

**WETCUT
SECTION**

WETCUT 50 GALLON TANK - 3PNT MOUNT

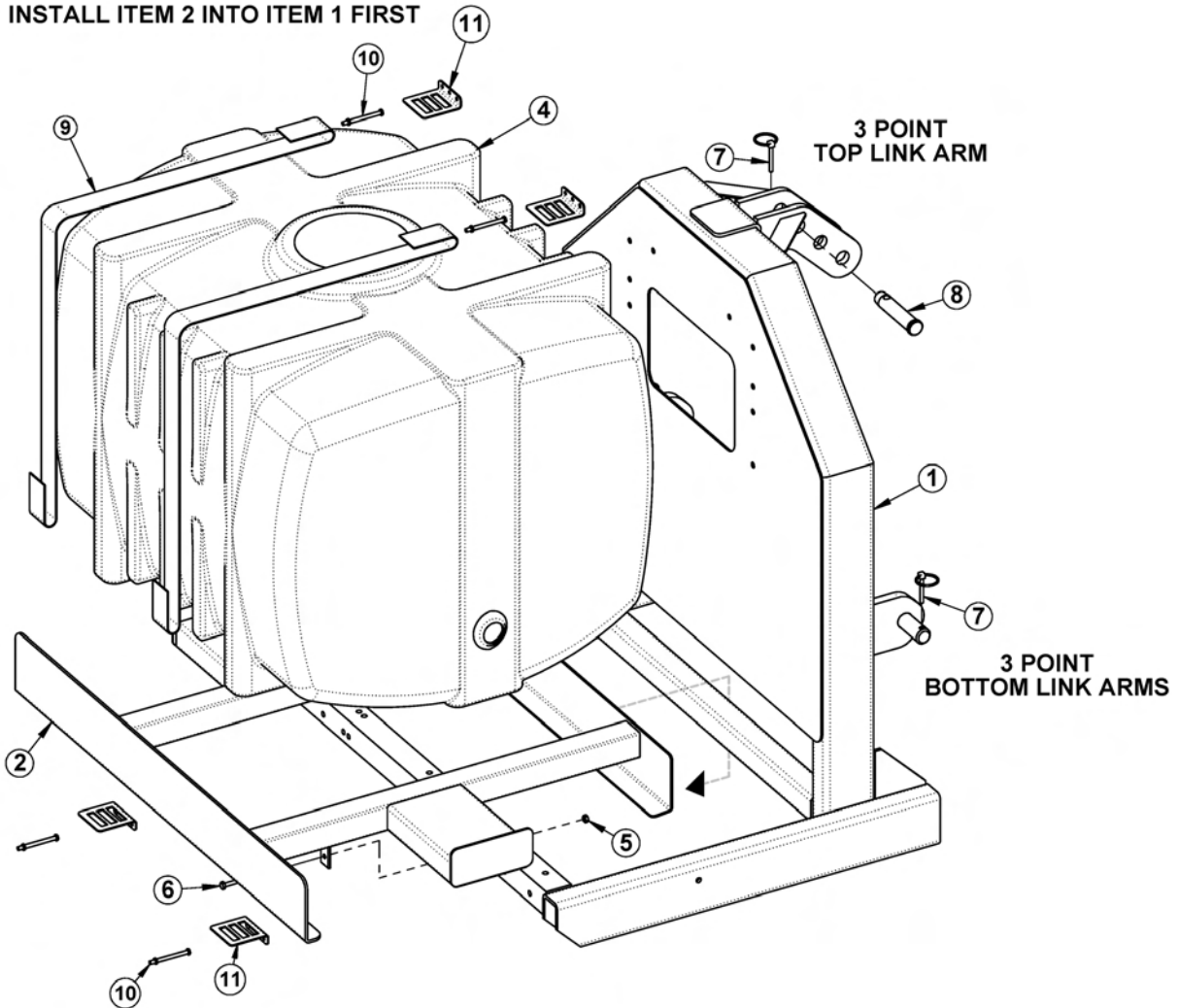
INSTALL ITEM 2 INTO ITEM 1 FIRST



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06370136 | 1 | MNT,TANK,50GAL,WETCUT |
| 4 | 06520342 | 1 | TANK,50GA.,WETCUT |
| 7 | RD1032 | 3 | PIN,LYNCH 1/4" X 2" |
| 8 | TB1036 | 1 | PIN,SEC BOOM SWIV 1X4-11/16" |
| 9 | 06520343 | 4 | ANCHOR,STRAP,WETCUT |
| 10 | 06520344 | 4 | BOLT,STRAP,TANK,WETCUT |
| 11 | 06520345 | 2 | STRAP,TANK,WETCUT |

WETCUT 100 OR 150 GALLON TANK - 3PNT MOUNT

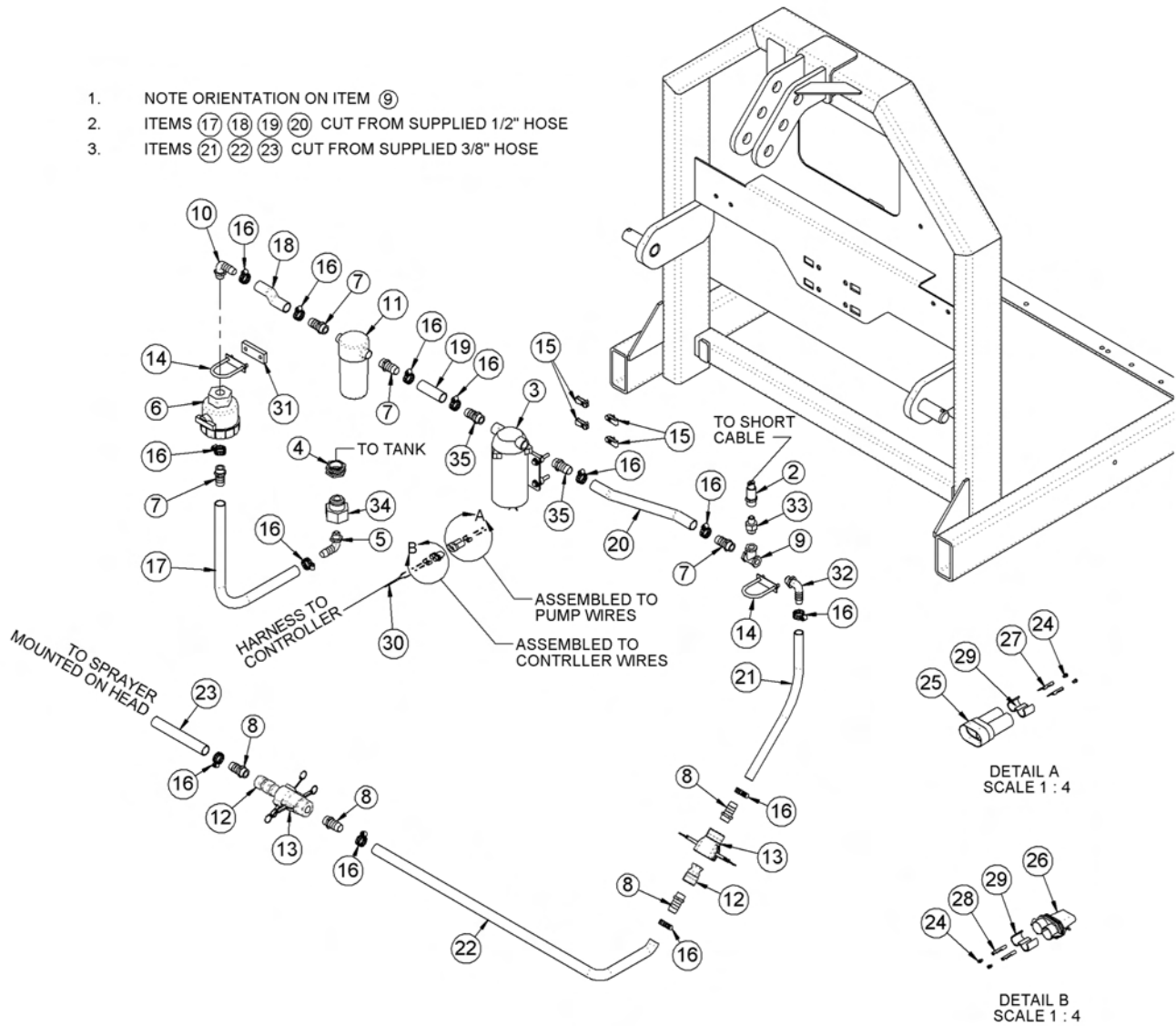
INSTALL ITEM 2 INTO ITEM 1 FIRST



| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|------------------------------|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06370138 | 1 | MNT,TANK,100GAL,WETCUT |
| ----- | 06370139 | - | MNT,TANK,150GAL,WETCUT |
| 4 | 06520372 | 1 | TANK,100GA.,WETCUT |
| ----- | 06520373 | - | TANK,150GA.,WETCUT |
| 5 | 21527 | 2 | HEX NUT,NYLOCK,1/4" NC |
| 6 | 21530 | 2 | CAPSCREW,1/4" X 1" NC |
| 7 | RD1032 | 3 | PIN,LYNCH 1/4" X 2" |
| 8 | TB1036 | 1 | PIN,SEC BOOM SWIV 1X4-11/16" |
| 9 | 06520345 | 2 | STRAP,TANK,WETCUT |
| 10 | 06520344 | 4 | BOLT,STRAP,TANK,WETCUT |
| 11 | 06520343 | 4 | ANCHOR,STRAP,WETCUT |

WETCUT 3PNT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



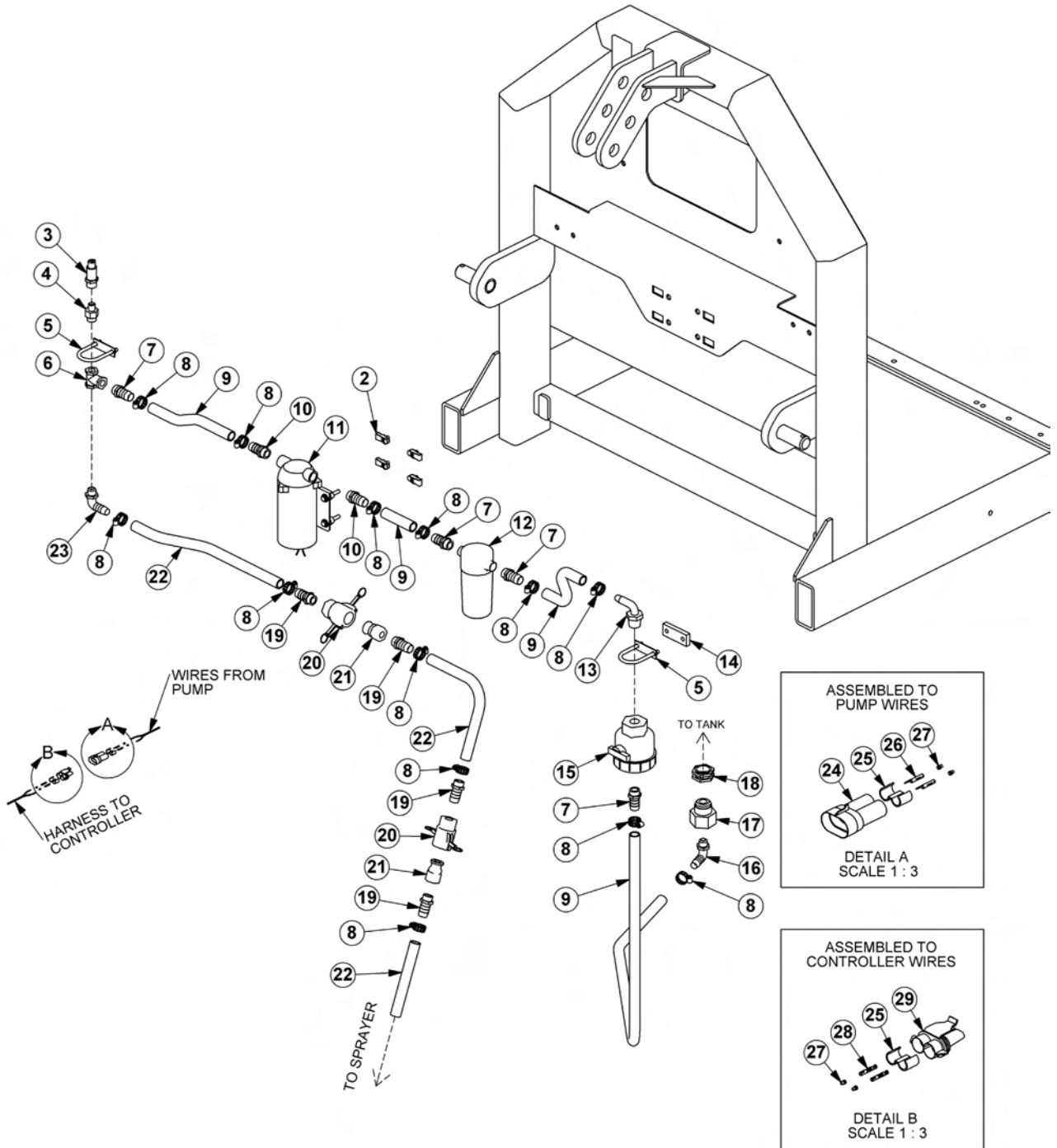
WETCUT 3PNT PLUMBING - 50IN MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---------|----------|------|---|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 3 | 06520341 | 1 | PUMP,WETCUT |
| 4 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY) |
| 5 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 6 | 06520348 | 1 | VLV,BALL,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 06503173 | 4 | FITTING,1/2MP X 3/8" BARB |
| 9 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 10 | 06520367 | 1 | ELBOW,1/2" X 1/2" BARB,POLY |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| 12 | 06520400 | 2 | QUIK CPLR,MALE,1/2",WETCUT |
| 13 | 06520401 | 2 | QUIK CPLR,FEM,1/2",WETCUT |
| 14 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 15 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 16 | 35091 | 13 | CLAMP, HOSE #6 |
| 17 - 20 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 21 - 23 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 24 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 25 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 26 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |
| 27 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510056 | 2 | TPA |
| 30 | 06520337 | 1 | INCLUDED WITH CONTROLLER |
| 31 | 06401133 | 1 | SPACER,Ø.31" X 1.75" X .38" |
| 32 | 06503165 | 1 | ELBOW,1/2"MP X 3/8" BARB |
| 33 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 34 | 06503169 | 1 | BUSHING,1"MP X 1/2"FP (100 & 150 GALLON TANKS ONLY) |
| 35 | 06503176 | 2 | FITTING,BARB,3/8"MP X 1/2" BARB |

COMMON BENGAL

WETCUT 3PNT PLUMBING - LARGE MOWERS



WETCUT 3PNT PLUMBING - LARGE MOWERS

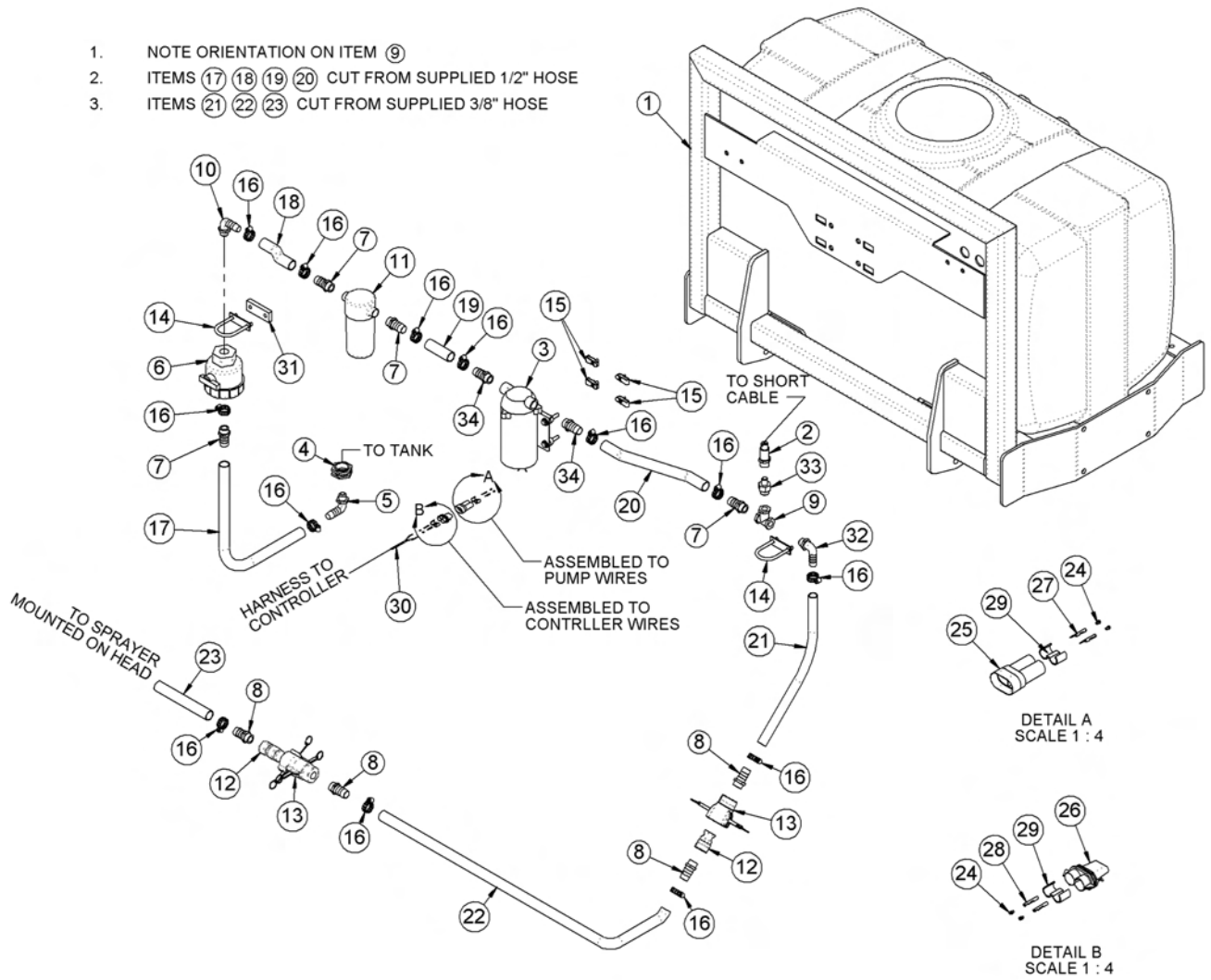
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370128 | 1 | MNT,3PNT,UNI |
| 2 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 3 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 4 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 5 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 6 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 35091 | 13 | CLAMP, HOSE #6 |
| 9 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 10 | 06503168 | 2 | SWIVEL,1/2" STR |
| 11 | 06520359 | 1 | PUMP,LARGE |
| 12 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 13 | 06520367 | 1 | ELBOW,1/2X1/2BARB,POLY |
| 14 | 06401133 | 1 | SPACER,Ø.31X1.75X.38 |
| 15 | 06520348 | 1 | VLV,BALL,WETCUT |
| 16 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 17 | 06503169 | 1 | BUSHING,1MPX1/2FP (100 & 150 GALLON TANKS ONLY) |
| 18 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY) |
| 19 | 06503173 | 4 | FITTING,BARB,1/2X3/8,WETCUT |
| 20 | 06520401 | 2 | QUIK CPLR,FEM,1/2,WETCUT |
| 21 | 06520400 | 2 | QUIK CPLR,MALE,1/2,WETCUT |
| 22 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 23 | 06503165 | 1 | ELBOW,1/2X3/8BARB,POLY |
| 24 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 25 | 06510056 | 2 | TPA |
| 26 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 27 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |

COMMON BENGAL

WETCUT FRONT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



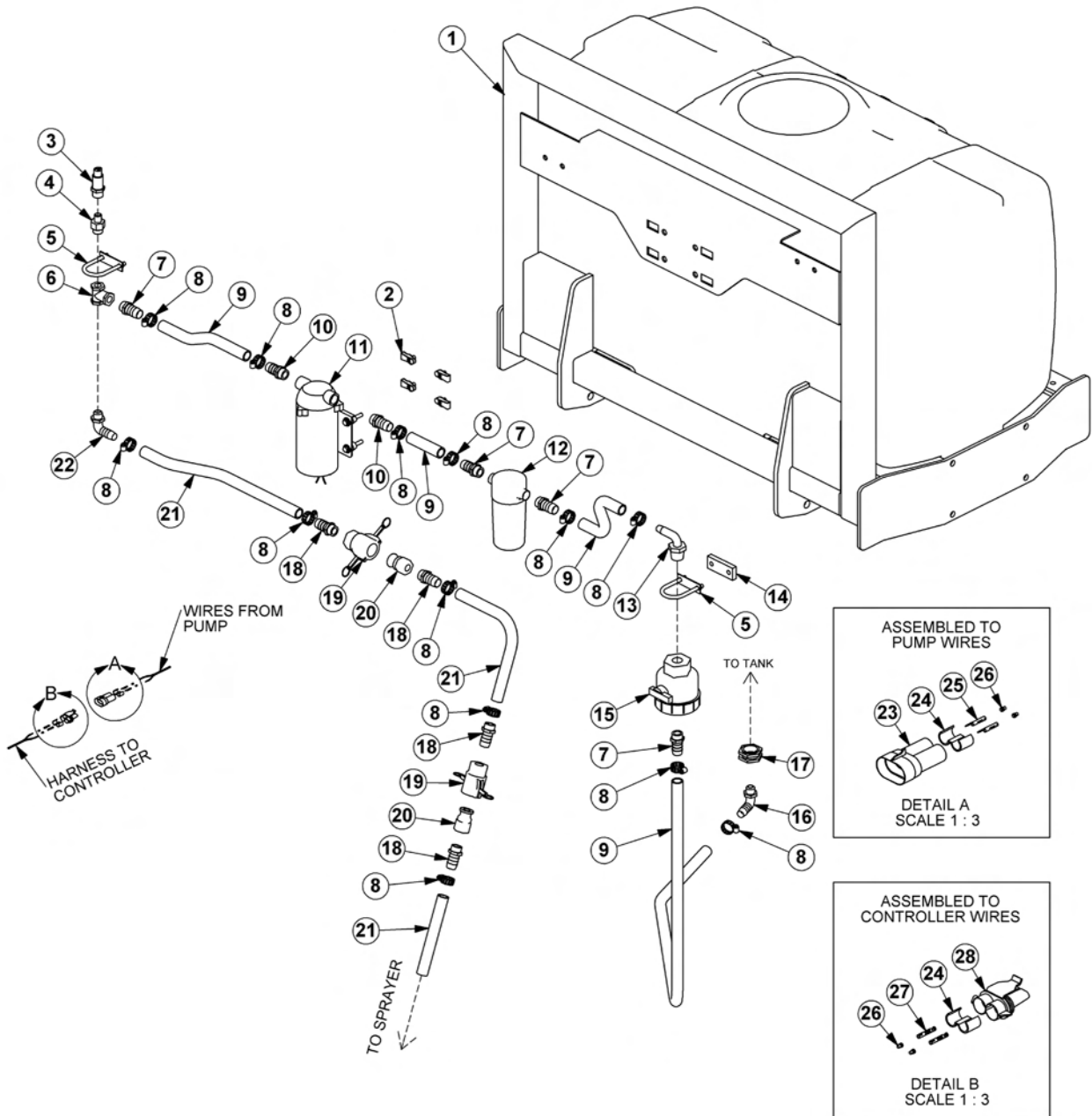
WETCUT FRONT PLUMBING - 50IN MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---------|----------|------|-----------------------------------|
| 1 | 06370204 | 1 | MNT,FRONT,UNI |
| 2 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 3 | 06520341 | 1 | PUMP,WETCUT |
| 4 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT |
| 5 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 6 | 06520348 | 1 | VLV,BALL,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 06503173 | 4 | FITTING,1/2"MP X 3/8"BARB |
| 9 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 10 | 06520367 | 1 | ELBOW,1/2"MP X 1/2"BARB,POLY |
| 11 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 12 | 06520400 | 2 | QUIK CPLR,MALE,1/2",WETCUT |
| 13 | 06520401 | 2 | QUIK CPLR,FEM,1/2",WETCUT |
| 14 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 15 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 16 | 35091 | 13 | CLAMP,HOSE #6 |
| 17 - 20 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 21 - 23 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 24 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 25 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 26 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |
| 27 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 28 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 29 | 06510056 | 2 | TPA |
| 30 | 06520337 | 1 | INCLUDED WITH CONTROLLER |
| 31 | 06401133 | 1 | SPACER,Ø.31" X 1.75" X .38" |
| 32 | 06503165 | 1 | ELBOW,1/2"MP X 3/8"BARB,POLY |
| 33 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 34 | 06503176 | 2 | FITTING,3/8"MP X 1/2"BARB |

COMMON BENGAL

WETCUT FRONT PLUMBING - LARGE MOWERS



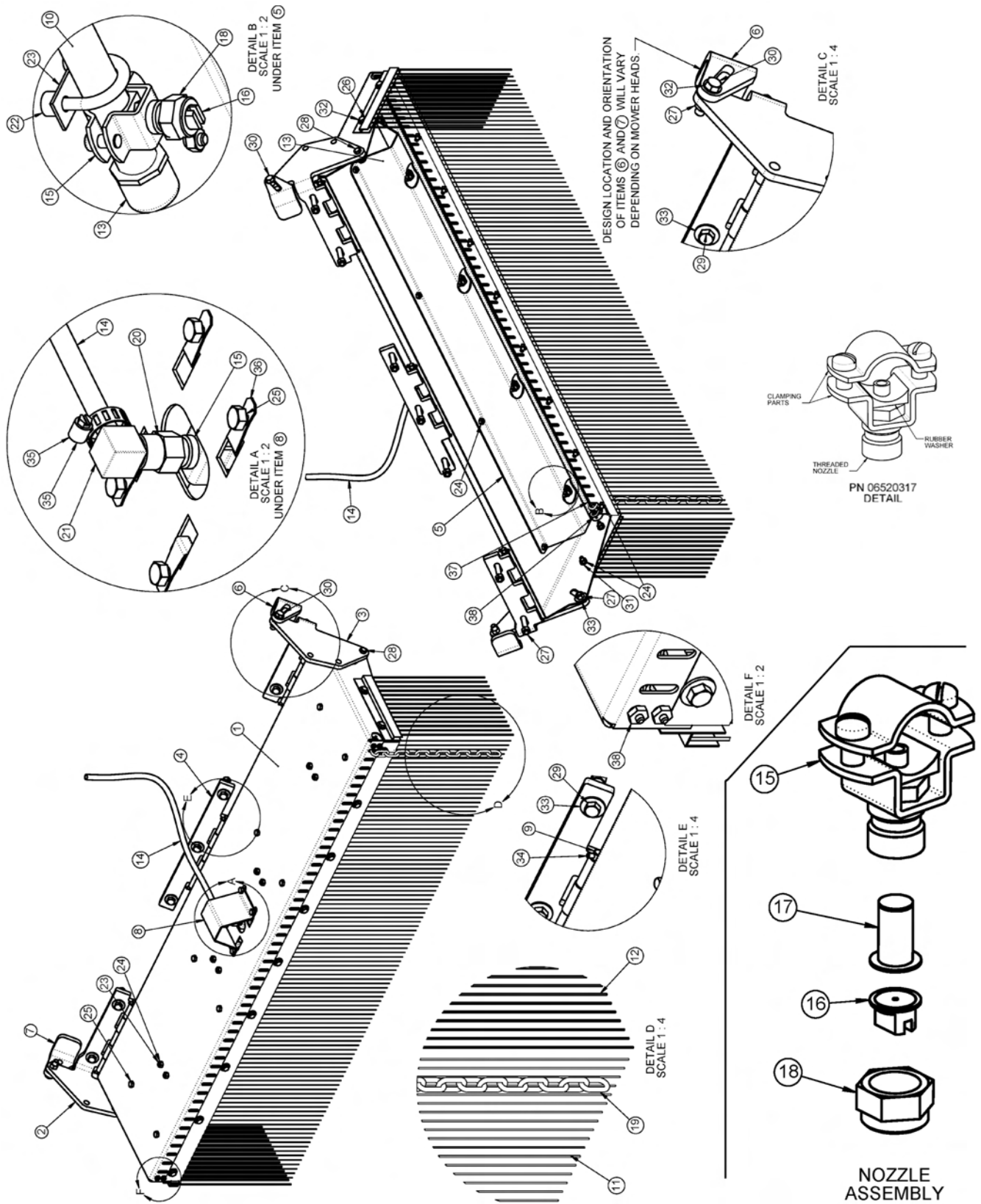
WETCUT FRONT PLUMBING - LARGE MOWERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 1 | 06370204 | 1 | MNT,FRONT,UNIV |
| 2 | 35176 | 4 | U-NUT,1/4,3/4 TO CENTER |
| 3 | 06520336 | 1 | CNTRLR,SENSOR,06520333 |
| 4 | 06520354 | 1 | BUSHING,REDUCER,WETCUT |
| 5 | 27329 | 2 | U-BOLT,1/4" X 1" X 2" |
| 6 | 06520353 | 1 | FITTING,TEE,WETCUT |
| 7 | 06520349 | 4 | FITTING,BARB,HOSE,WETCUT |
| 8 | 35091 | 13 | CLAMP, HOSE #6 |
| 9 | 06520469 | 5 | 1/2" HOSE (FEET) |
| 10 | 06503168 | 2 | SWIVEL,1/2" STR |
| 11 | 06520359 | 1 | PUMP,LARGE |
| 12 | 06520361 | 1 | FILTER,FIRE KIT,RAILKUT |
| --- | 06520351 | 1 | STRAINER,40MESH |
| 13 | 06520367 | 1 | ELBOW,1/2X1/2BARB,POLY |
| 14 | 06401133 | 1 | SPACER,Ø.31X1.75X.38 |
| 15 | 06520348 | 1 | VLV,BALL,WETCUT |
| 16 | 06520347 | 1 | FITTING,ELBOW,WETCUT |
| 17 | 06520346 | 1 | FITTING,BULKHEAD,WETCUT |
| 18 | 06503173 | 4 | FITTING,BARB,1/2X3/8,WETCUT |
| 19 | 06520401 | 2 | QUIK CPLR,FEM,1/2,WETCUT |
| 20 | 06520400 | 2 | QUIK CPLR,MALE,1/2,WETCUT |
| 21 | 06520316 | - | 3/8" HOSE (INCLUDED WITH SPRAYER) |
| 22 | 06503165 | 1 | ELBOW,1/2X3/8BARB,POLY |
| 23 | 06510052 | 1 | CONN.,BODY,MALE,METRIPACK 150 |
| 24 | 06510056 | 2 | TPA |
| 25 | 06510054 | 2 | TERMINAL,MALE,16/18GA.METPAK |
| 26 | 06510051 | 4 | SEAL,16-18GA,METPAK |
| 27 | 06510055 | 2 | TERMINAL,FEM,16/18GA.METPAK |
| 28 | 06510053 | 1 | CONN.,BODY,FEM,METRIPACK 150 |

COMMON BENGAL

WETCUT 50IN SPRAYER HEAD ASSEMBLY



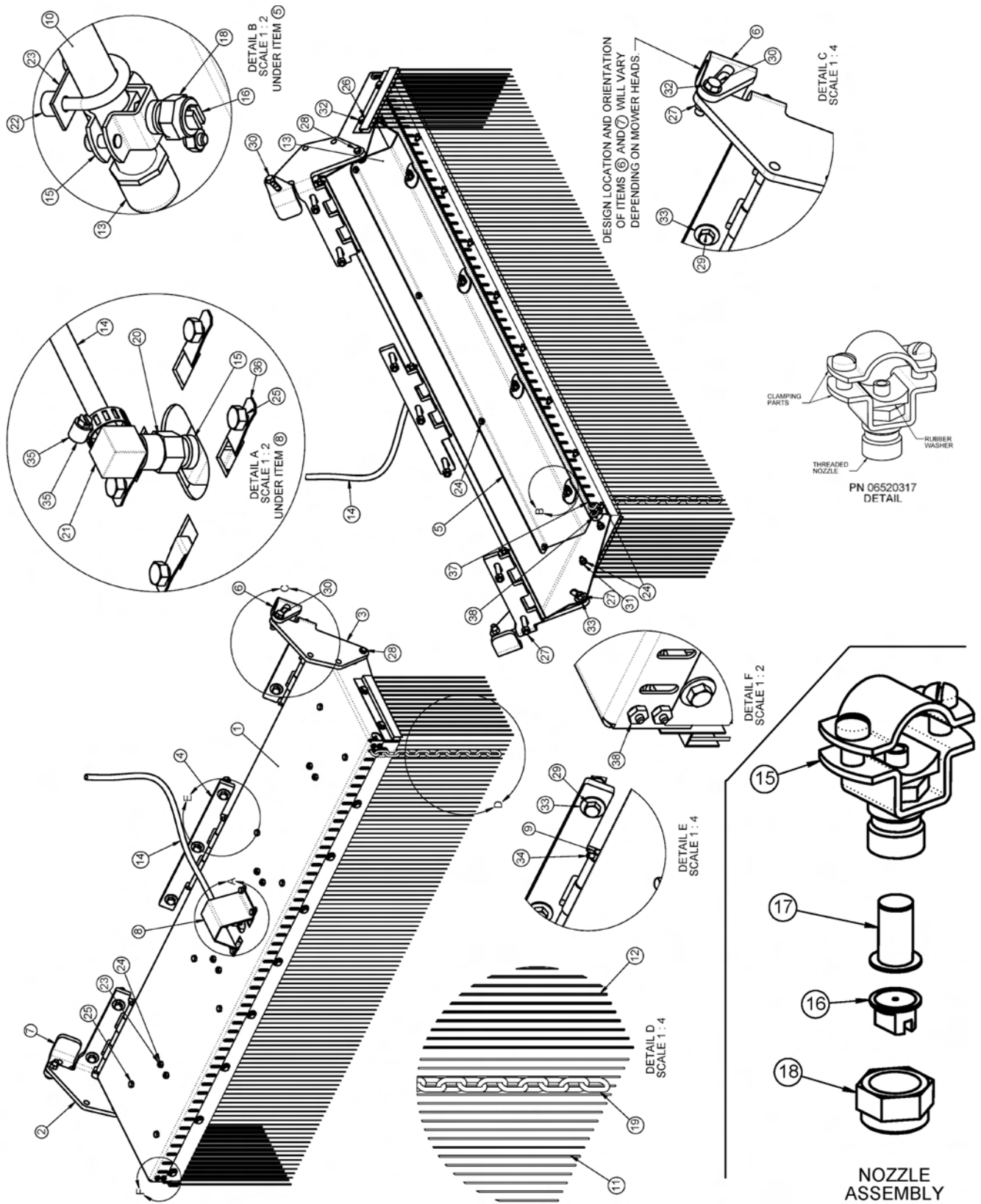
WETCUT 50IN SPRAYER HEAD ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370105 | 1 | HOOD,SPRAYER |
| 2 | 06370106 | 1 | HINGE,LH,SPRAYER |
| 3 | 06370107 | 1 | HINGE,RH,SPRAYER |
| 4 | 06370108 | 1 | HINGE,CNTR,SPRAYER |
| 5 | 06410668 | 1 | GUARD,SPRAYER,WETCUT |
| 6 | 06410753 | 1 | MNT,RH,WET CUT (FLAIL) |
| --- | 06410942 | 1 | MNT,RH,WET CUT (ROTARY) |
| 7 | 06410754 | 1 | MNT,LH,WET CUT (FLAIL) |
| --- | 06410943 | 1 | MNT,LH,WET CUT (ROTARY) |
| 8 | 06410796 | 1 | GUARD,HOSE,WETCUT |
| 9 | 06420069 | 3 | PIN,HINGE,WET CUT |
| 10 | 06497003 | 1 | TUBE,LG,SPRAYER |
| 11 | 06499012 | 1 | SKIRT,ANTI SPRAY,50 |
| 12 | 06499013 | 2 | SKIRT,ANTI SPRAY,7 |
| 13 | 06520314 | 2 | TUBE,CAP,SPRAYER |
| 14 | 06520316 | 15 | HOSE,SPRAYER (FEET) |
| 15 | 06520317 | 5 | NOZZLE,SPRAYER |
| 16 | 06520319 | 4 | TIP,NOZZLE,SPRAYER |
| 17 | 06520320 | 4 | FILTER,NOZZLE,SPRAYER |
| 18 | 06520321 | 4 | NUT,NOZZLE,SPRAYER |
| 19 | 06520322 | 49 | CHAIN,.18" X 1.31" X 13LINKS |
| 20 | 06520381 | 1 | ADAPTER,1/4"NPT,WETCUT |
| 21 | 06520382 | 1 | ELBOW,BARB,3/8" X 1/4"NPT |
| 22 | 06520383 | 8 | SPACER,.50"O.D. X .252" I.D. X .38",NYLON |
| 23 | 32550 | 4 | U-BOLT,1/4" X 1" X 1" X 1-3/4" |
| 24 | 21527 | 29 | HEX NUT,NYLOCK,1/4",NC |
| 25 | 21528 | 12 | CAPSCREW,1/4" X 1/2",NC |
| 26 | 21529 | 13 | CAPSCREW,1/4" X 3/4",NC |
| 27 | 21625 | 11 | HEX NUT,3/8",NC |
| 28 | 21630 | 2 | CAPSCREW,3/8" X 1",NC |
| 29 | 21634 | 7 | CAPSCREW,3/8" X 2",NC |
| 30 | 21632 | 2 | CAPSCREW,3/8" X 1-1/2",NC |
| 31 | 21986 | 4 | LOCKWASHER,1/4" |
| 32 | 22014 | 15 | FLATWASHER,1/4" |
| 33 | 22016 | 9 | FLATWASHER,3/8",GR8 |
| 34 | 34698 | 6 | ROLL PIN, PLAIN, 3/16" X 7/8" |
| 35 | 35091 | 1 | CLAMP,HOSE #6 |
| 36 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 37 | 06520376 | 5 | CABLE,3/16" |
| 38 | 06537022 | 2 | U-BOLT,CABLE,3/16" |

COMMON BENGAL

WETCUT 60IN SPRAYER HEAD ASSEMBLY



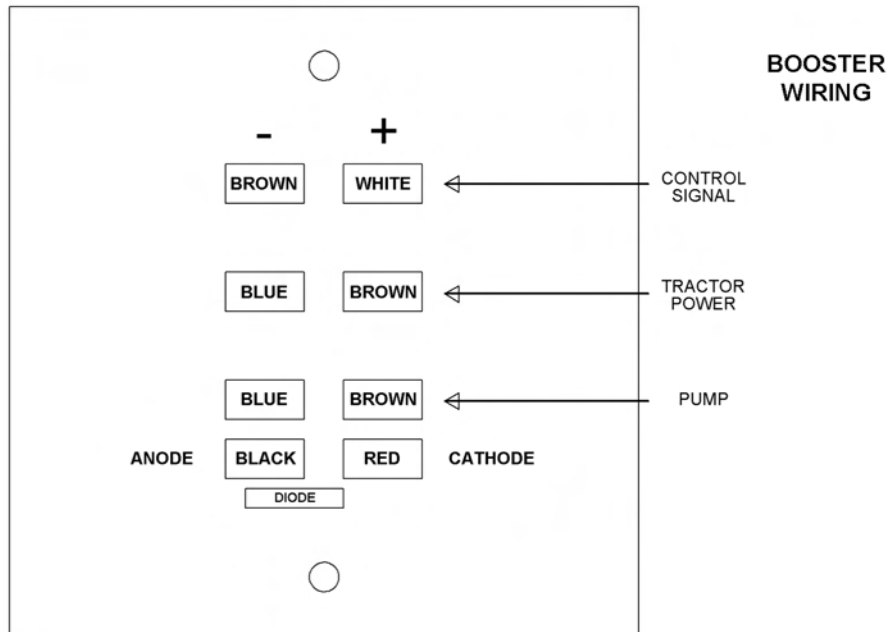
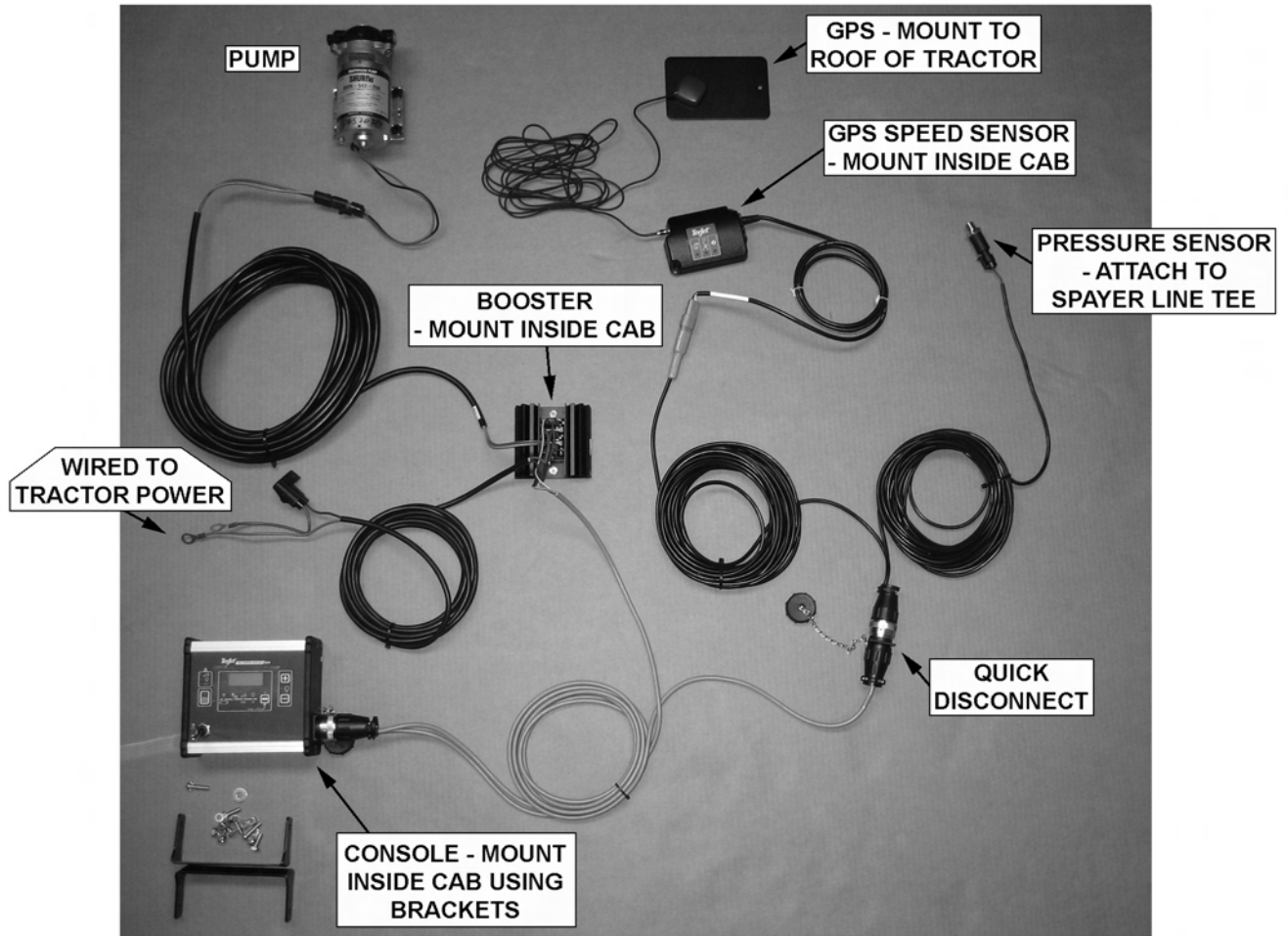
WETCUT 60IN SPRAYER HEAD ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 06370210 | 1 | HOOD,SPRAYER |
| 2 | 06370106 | 1 | HINGE,LH,SPRAYER |
| 3 | 06370107 | 1 | HINGE,RH,SPRAYER |
| 4 | 06370108 | 1 | HINGE,CNTR,SPRAYER |
| 5 | 06411234 | 1 | GUARD,SPRAYER,WETCUT |
| 6 | 06410753 | 1 | MNT,RH,WET CUT (FLAIL) |
| --- | 06410942 | 1 | MNT,RH,WET CUT (ROTARY) |
| 7 | 06410754 | 1 | MNT,LH,WET CUT (FLAIL) |
| --- | 06410943 | 1 | MNT,LH,WET CUT (ROTARY) |
| 8 | 06410796 | 1 | GUARD,HOSE,WETCUT |
| 9 | 06420069 | 3 | PIN,HINGE,WET CUT |
| 10 | 06497009 | 1 | TUBE,LG,SPRAYER |
| 11 | 06499018 | 1 | SKIRT,ANTI SPRAY,60 |
| 12 | 06499013 | 2 | SKIRT,ANTI SPRAY,7 |
| 13 | 06520314 | 2 | TUBE,CAP,SPRAYER |
| 14 | 06520316 | 15 | HOSE,SPRAYER (FEET) |
| 15 | 06520317 | 6 | NOZZLE,SPRAYER |
| 16 | 06520319 | 5 | TIP,NOZZLE,SPRAYER |
| 17 | 06520320 | 5 | FILTER,NOZZLE,SPRAYER |
| 18 | 06520321 | 5 | NUT,NOZZLE,SPRAYER |
| 19 | 06520322 | 61 | CHAIN,.18" X 1.31" X 13LINKS |
| 20 | 06520381 | 1 | ADAPTER,1/4"NPT,WETCUT |
| 21 | 06520382 | 1 | ELBOW,BARB,3/8" X 1/4"NPT |
| 22 | 06520383 | 10 | SPACER,.50"O.D. X .252" I.D. X .38",NYLON |
| 23 | 32550 | 5 | U-BOLT,1/4" X 1" X 1" X 1-3/4" |
| 24 | 21527 | 33 | HEX NUT,NYLOCK,1/4",NC |
| 25 | 21528 | 15 | CAPSCREW,1/4" X 1/2",NC |
| 26 | 21529 | 13 | CAPSCREW,1/4" X 3/4",NC |
| 27 | 21625 | 13 | HEX NUT,3/8",NC |
| 28 | 21630 | 2 | CAPSCREW,3/8" X 1",NC |
| 29 | 21634 | 7 | CAPSCREW,3/8" X 2",NC |
| 30 | 21632 | 4 | CAPSCREW,3/8" X 1-1/2",NC |
| 31 | 21986 | 4 | LOCKWASHER,1/4" |
| 32 | 22014 | 33 | FLATWASHER,1/4" |
| 33 | 22016 | 11 | FLATWASHER,3/8",GR8 |
| 34 | 34698 | 6 | ROLL PIN, PLAIN, 3/16" X 7/8" |
| 35 | 35091 | 1 | CLAMP,HOSE #6 |
| 36 | 35176 | 4 | U-NUT,1/4",3/4" TO CENTER |
| 37 | 06520376 | 6 | CABLE,3/16" (FEET) |
| 38 | 06537022 | 2 | U-BOLT,CABLE,3/16" |

COMMON BENGAL

WETCUT CABLES



WARRANTY SECTION

WARRANTY INFORMATION

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

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

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

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

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

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

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

ONE LAST WORD

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



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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.

TO THE OWNER / OPERATOR / DEALER



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

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

OWNER REQUIREMENTS:

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

OPERATOR REQUIREMENTS:

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



Printed in USA
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