



SABER ASSEMBLIES

NEW HOLLAND TV-6070

Current as of 01/19/2012



PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

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

06023001

TO THE OWNER / OPERATOR / DEALER

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

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

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



DANGER

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



1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.

● Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children

2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.

3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.

● Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.

4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding

5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.

● Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.

6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.

8. Before dismounting, secure implement in transport position or lower to ground.

● Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.

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



02967827

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

FORWARD

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

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

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

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

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

- If unable to correct the problem yourself, contact your 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:

1- _____ - _____ - _____

1- _____ - _____ - _____

TABLE OF CONTENTS

| | |
|----------------------------------|---|
| SAFETY SECTION_____ | 1 |
| ASSEMBLY / MOUNTING SECTION_____ | 2 |
| OPERATION SECTION_____ | 3 |
| MAINTENANCE SECTION_____ | 4 |
| PARTS SECTION_____ | 5 |
| COMMON PARTS SECTION_____ | 6 |
| WARRANTY INFORMATION_____ | 7 |



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 understands 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!

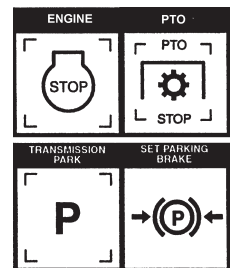


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

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.

(SG-12)



DANGER!



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

(SG-13)



DANGER!



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

(SG-14)



DANGER!



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

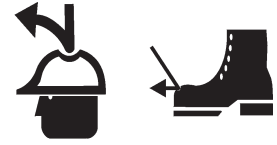


SAFETY

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!



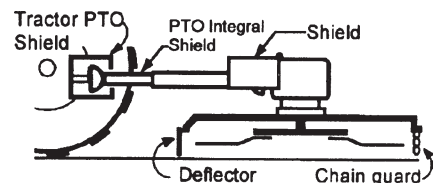
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless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

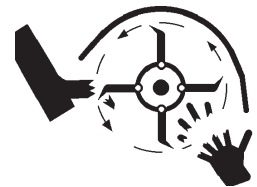


Mow at the speed that you can safely operate and control the tractor and mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead 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

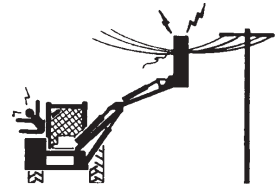


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to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

DANGER!



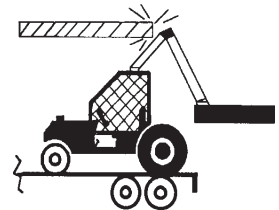
Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation. (SBM-7)



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!



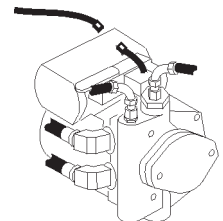
Left Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you 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> |
|------------|--|--|--|

1. Study and understand Operator's Manuals, Safety Signs, and Instructional Details 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 **Resistor 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 rollover may cause injury or death.

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

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

00225746

00725746
INSIDE OF CAB

DANGER

| | |
|-----------------------|-----------------------|
| <p>THROWN OBJECTS</p> | <p>CUTTING BLADES</p> |
|-----------------------|-----------------------|

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

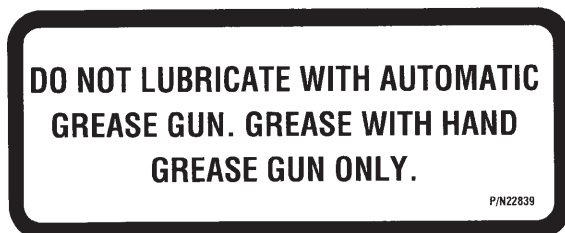
02971123
HYDRAULIC TANK



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



32428
MAIN BOOM



32449
HYDRAULIC TANK

SAFETY

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.

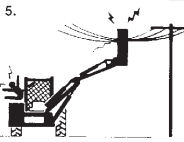
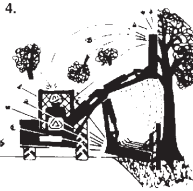
3. REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS ON FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL, AND POSSIBLE INJURY.

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



PART NO.
LOCATION

32707
HYDRAULIC TANK

ATTENTION

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

32708

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

SAFETY

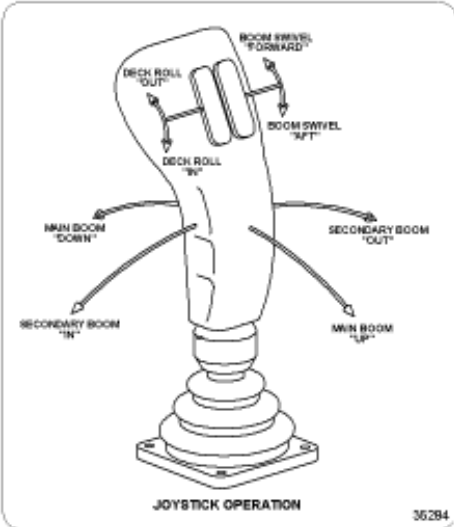
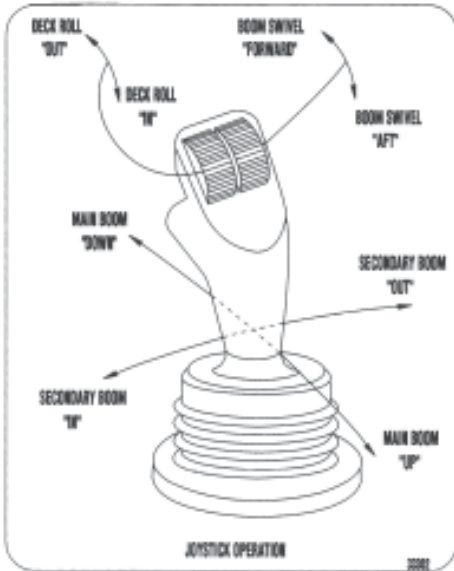
PART NO.
LOCATION

33224
MOWER DECK

33302
INSIDE OF CAB

35284
INSIDE OF CAB

33438
MAIN BOOM



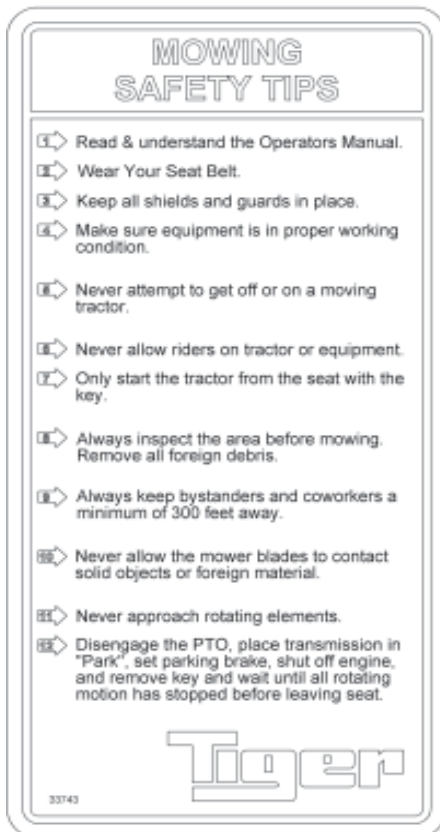
Tiger™

SAFETY

PART NO.
LOCATION



33512
INSIDE OF CAB



33743
INSIDE OF CAB



42350
MOWER DECK

SAFETY



PART NO.
LOCATION
RED 42399
REFLECTIVE TAPE
MOWER DECK



AMBER 42400
REFLECTIVE TAPE
MOWER DECK



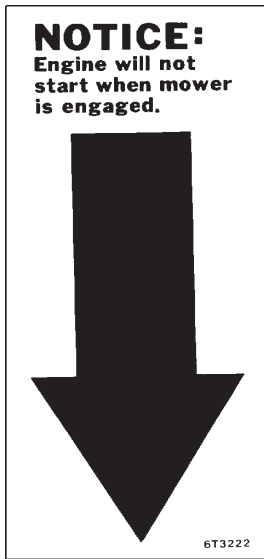
6T3217
MOWER DECK



6T3219
INSIDE OF CAB

6T3220
FRONT PUMP MOUNT

SAFETY

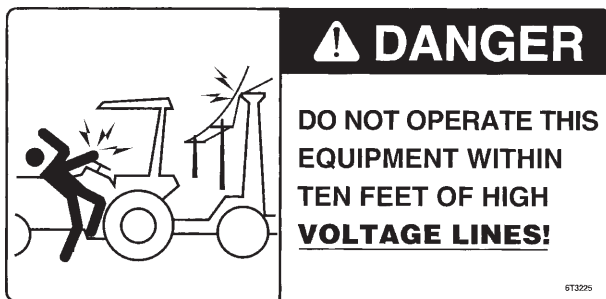


PART NO.
LOCATION

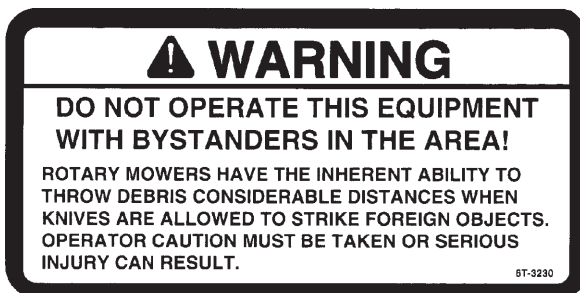
6T3222
INSIDE OF CAB



6T3224
MOWER DECK



6T3225
INSIDE OF CAB



6T3230
INSIDE OF CAB

SAFETY



PART NO.
LOCATION

6T3233
HYDRAULIC TANK



6T3234
INSIDE OF CAB



6T3236
MOWER DECK



6T3243
INSIDE OF CAB



6T3249A
MOWER DECK

SAFETY

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.

872041

PART NO.
LOCATION

6T3261
MOWER DECK

WARNING

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

TB1011

TB1011
MOWER DECK



Tiger Corporation

800-843-6849

www.tiger-mowers.com

| Description | Application | General Specification | Recommended Lubricant |
|---|-------------|---|---|
| Tractor Hydraulics | Reservoir | JD-20C | Mobilfluid® 424 |
| Mower Hydraulics | Reservoir | ISO 46 Anti-Wear/ Low Temp | Mobil DTE® 15M |
| Cold Temperatures 0°F Start-up | | JD-20C | Mobilfluid® 424 |
| Normal Temperatures 10°F Start-up | | ISO 46 Anti-Wear | Mobil DTE® 25 |
| Normal Temperatures 15°F Start-up | | ISO 100 Anti-Wear | Mobil DTE® 18M |
| High Operating Temperatures Above 90°F Ambient | | | |
| 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 1-800-862-4526.

Tiger PN 34852

34852
HYDRAULIC TANK

SAFETY



50023 MANUAL CANISTER

| 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 | ZIP TIE 14" LONG |

NOTE:

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

SAFETY

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

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

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

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

OSHA Regulations

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

Employer Responsibilities:

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

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

Child Labor Under 16 Years of Age

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

SAFETY

ASSEMBLY SECTION

ASSEMBLY

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

Check complete shipment list against the packing list to make sure there are no shortages. Make certain the tractor model is the appropriate one for the mower received!



Always use a floor jack, hoist or fork lift to lift and raise heavy parts.

Read and understand the entire assembly section instructions before attempting to mount your Tiger mower. Refer to the parts section of this manual for detailed illustrations to locate all parts. (ASM-C-0001)

TRACTOR PREPARATION

- A. Disconnect battery cables.
- B. Remove engine side panels, or raise hood.
- C. Remove the draw bar from the cab end, and replace with the support frame using existing hardware.
- D. Remove the 3-point hitch from the cab end.
- E. Check that tractor wheels are adjusted all the way out. Refer to the owners manual for wheel adjustment procedures.
- F. Mount axle brackets onto axle using existing hardware.

(ASM-NH-0042)

FRONT PUMP MOUNTING

Locate the bracket for mounting the hydraulic pump on the main frame directly behind the PTO shaft. Mount the pump accordingly so that the offset side of the pump is positioned on the top. Connect the PTO drive shaft to the pump and to the tractor.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-NH-0043)

ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owners manual for adjusting tires and rims.** The back wheels **MUST** be adjusted to the widest setting. **NOTE:** This may require switching the wheels to opposite sides of tractor. Also take note of any width restrictions when transporting by trailer. (For ease of installation, it is best to leave the rear wheels removed during installation of the mower.) (ASM-B-0001)



ASSEMBLY

POLYCARBONATE SAFETY WINDOW

NOTE: Installing a boom mower requires that all of the right side windows be replaced, or protected with a lexan window. This should be done before mounting the main frame. Remove the door on the right side of the cab, and the door hinges from the cab. Remove the glass from the door frame.

Position the ribbon sealer around the frame of the door, so that when the new lexan window is installed, the ribbon sealer is positioned between the frame and the lexan. Peel back the protective paper from the area around the window that will contact the frame. Place the lexan window on the frame, and clamp together. Next drill 21, 3/16" holes through the lexan evenly spaced around the frame, and secure the lexan window with 3/16" pop rivets.

Place the side lexan window on the frame supplied in the kit, and clamp together. Next drill 17, 3/16" holes through the lexan window and into the frame evenly spaced around, and secure with 3/16" pop rivets.

Place the new door hinges, that were supplied in the kit, in the position that the original hinges were taken from. Install the side window and secure with the hardware supplied in the kit.

Last install the door in the original position that it was taken from. (Refer to the Parts Section Lexan Safety Window for an assembly diagram). *(ASM-NH-0044)*

MAIN FRAME INSTALLATION

Install the main frame brackets onto the axles as shown in the main frame parts section. The brackets are mounted to the tractor using existing hardware on the axle plates. Adjust the jacks on the main frame so that the mounting arms coincide with the mounting pads and brackets of the tractor.

Slowly drive the tractor into the frame until hole alignment is achieved. Mounting and hole alignment can also be aided with the use of a forklift. Secure the frame to the tractor using all of the hardware as shown in the parts section. *(ASM-NH-0045)*



ASSEMBLY

SWITCH BOX WIRING

Inside the cab, in the right front corner drill a 1-3/4" hole through the floorboard approximately 2 inches behind, back from the window and 1 inch from the side. Drill a 1-1/2" diameter hole through channel underneath of cab. Install the trim lock through the hole.

Refer to the parts section for wiring diagrams. Route the cable through hole in channel underneath of the cab. Make sure there is enough slack in the wire so that the seat and switch box can reach every position. Route the cable back inside the cab through the hole in the cab floorboard. Seal the holes after cable is installed.

Locate the two orange wires under the right side of the cab, right above the cable for the lever on the hydrostatic control, this is the neutral safety. (**NOTE: Power should be "running" through these wires ONLY when the tractor ignition is in the "ON" position, check with a volt meter before splicing.**) Cut one orange wire and connect to the green wires coming from the switch box as shown in the wiring diagram. The red wire from the switch box can be connected to the continuous duty solenoid switch.

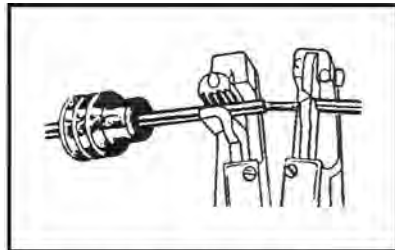
The single red wire from the last terminal on the switch box should also be covered with wire wrap and run out the rear window along with the valve cables. This wire will be connected to the electronic travel lock. (ASM-NH-0046)

WEATHER-PACK/METRI-PACK ASSEMBLY

These instructions apply to both Weather-Pack and Metri-pack connectors.

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

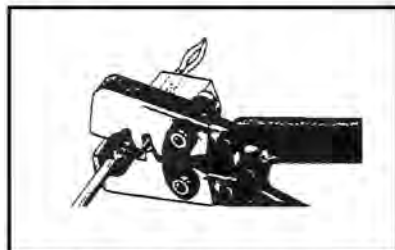
(ASM-C-0009)



1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



3. Put terminal in crimping tool, then



4. Crimp and visually inspect for a good

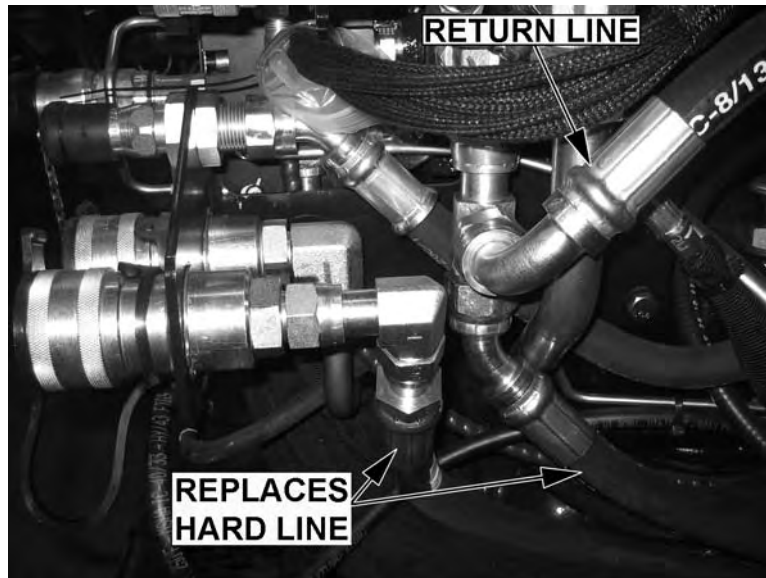


ASSEMBLY

RETURN LINE ROUTING

Locate the return line on the right side of the TV6070 valve bank. Remove the existing return hard line from existing elbow. Put the tee on existing elbow. Replace the existing hardline with a new return line hose and connect to a tee. Route the 3/4" hose from the outer branch tee to the 1" bulkhead fittings connected to the quick couplers on the cab end of the tractor. Refer to the parts section, lift valve feed lines diagram for installation of hoses, fittings, and quick couplers.

(ASM-NH-0047)

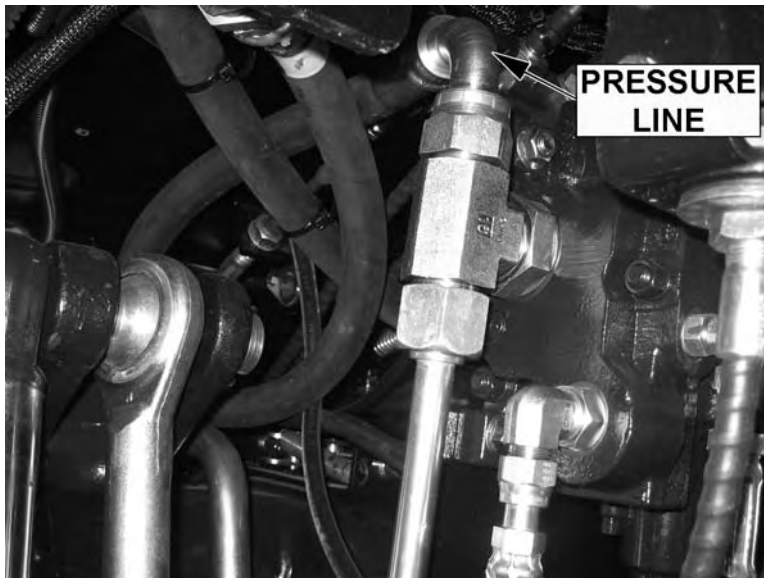


ASSEMBLY

PRESSURE LINE ROUTING

Locate the pressure feedline on the left side of the tractor valve bank. Disconnect existing 3/4" hard line temporarily. Replace the 90° fitting connected to tractor valve with the supplied tee. Reattach the tractor pressure line. Connect the new 3/4" pressure hose to the top of the 3/4" tee, then attach the other end to a 45° elbow which is attached to a 3/4" bulkhead fitting.

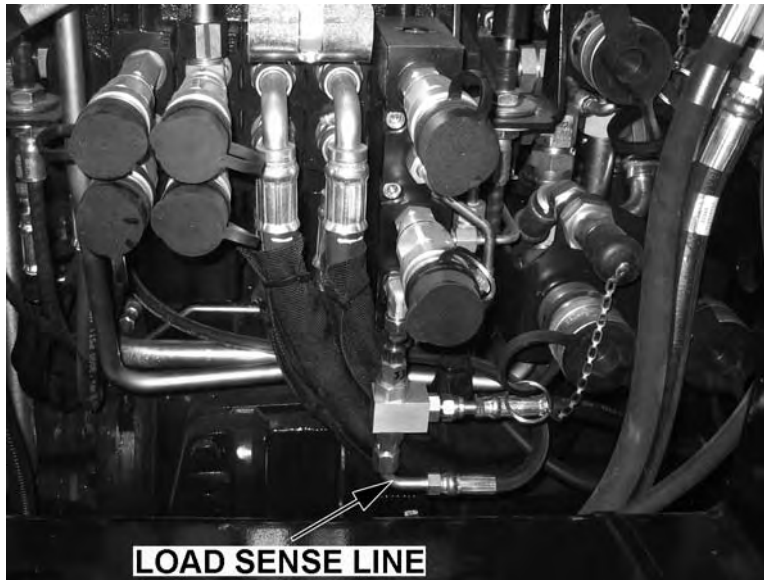
Do not couple pressure and return lines to Tiger valve without having load sense line hooked up. Damage to Tiger valve and or tractor pump can occur if load sense line is not hooked up. (ASM-NH-0048)



ASSEMBLY

LOAD SENSE LINE ROUTING

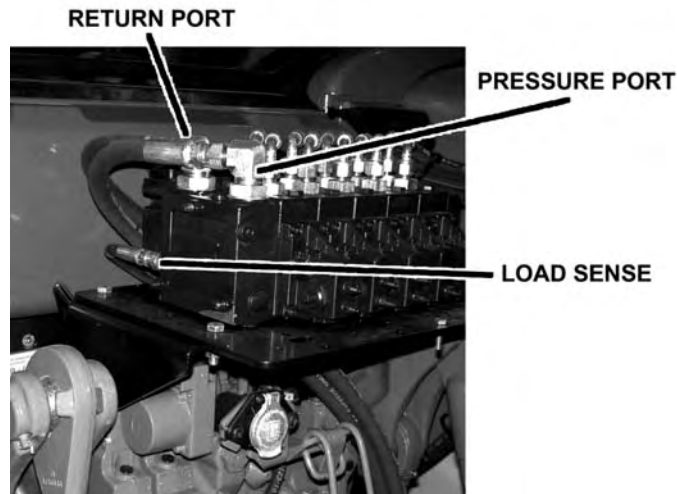
Locate the load sense line on the front of the TV6070 valve bank. Remove the existing hose from existing elbow. Assemble the adapters and tee on existing elbow. Reconnect the existing hose to the tee. Route the 1/4" hose from the tee to the 3/8" bulkhead fitting connected to the quick couplers on the cab end of the tractor. Refer to the parts section, lift valve feed lines diagram for installation of hoses, fittings, and quick couplers. (ASM-NH-0049)



ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)

DANFOSS VALVE



ASSEMBLY

JOYSTICK CONTROL MOUNTING

Mounting the joystick control will require that the left armrest be replaced with a new armrest that will accommodate the joystick. To remove the armrest, remove the allen head bolt from the pivot point of the existing arm rest. The rest will now slide off. Install the new armrest and pad with the capscrews and lockwashers shown in the parts section. Also install the joystick in the holder with the #10 machine screws. Refer to the parts section for assembly diagram. Attach the new armrest to the seat using the existing hardware. (ASM-NH-0082)

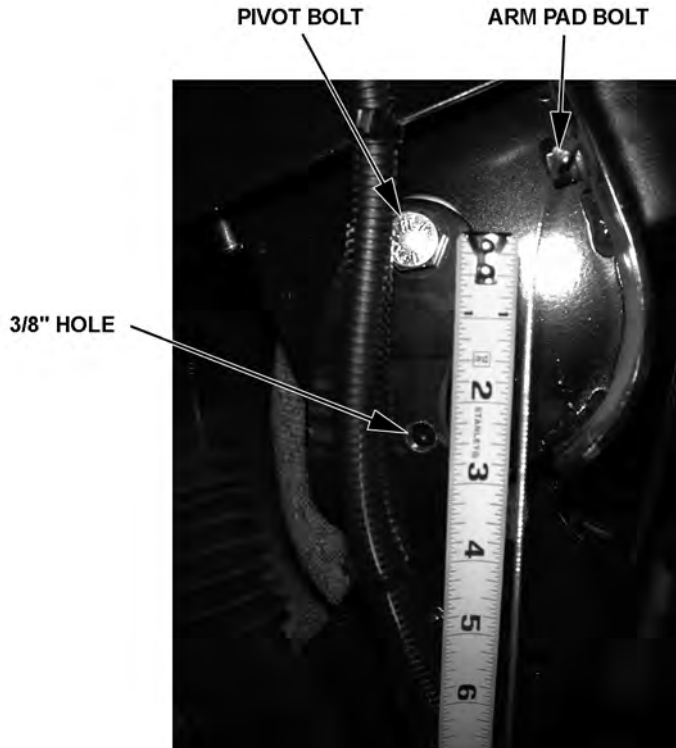


ASSEMBLY

ARM REST LOCK

Lift left hand arm rest completely verticle. Drill a 3/8" hole through the arm rest frame and the arm rest 2 1/2 inches from the arm rest pivot bolt.

Remove the bolt that holds the arm rest pad to the arm rest frame that is closest to the pivot bolt. Thread the flatwasher and lanyard onto the bolt and re-insert bolt into arm rest pad. Then thread the pin onto the other end of the lanyard. When the arm is completely verticle, the pin should fit snugly and secure the arm from lowering. (ASM-NH-0085)



ASSEMBLY

SWITCH BOX MOUNTING



Locate the switch box stand and the switch box arm. Install switch box arm into the switch box stand, securing with 3/8" x 2" capscrew at the center pivot point and 3/8" x 2" carriage bolt at adjustment slot. Locate the adjustment knob and secure to the carriage bolt. Install the switch box panel with pivot point towards the bottom and secure with carriage bolt and nylock nut.

In the cab locate (2) 10mm x 30mm capscrews located in the right front cab corner. Remove the capscrews to install the switchbox stand assembly. Replace the capscrews securing the switch box stand assembly in position. Locate the support bracket and fasten to the top of the switch box stand. Fasten the switch box to the panel using (4) capscrews, lockwashers, and flatwashers. (ASM-NH-0083)

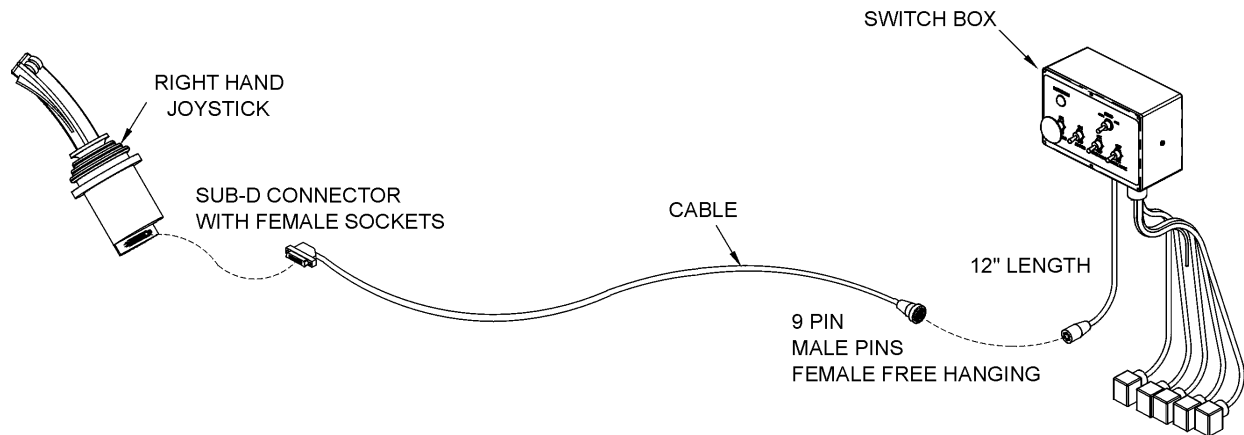


REMOVE NEGATIVE GROUND FROM THE BATTERY TERMINAL BEFORE WORKING WITH THE WIRING SYSTEM.



ASSEMBLY

BOOM JOYSTICK CONTROL CALIBRATION (FOR SABER) SUB-D



This Danfoss PVG32 control valve is now equipped with higher-resolution actuators on Main Boom, Secondary Boom, Deck Roll, and Swivel functions. These actuators have “active fault monitoring”. The Deck Shield section does not have “active fault monitoring”. The joystick is unchanged and provides a ratio-metric voltage signal. The neutral signal voltage is half or 50% of tractor supply voltage. A 25% signal voltage will shift the valve spool to full “A-Port”, and 75% signal voltage will shift the spool to full “B-Port” in the Main, Secondary, and Swivel valve sections. On the Deck Roll function a 34% signal voltage will shift the valve spool to full “A-Port” and a 68% signal voltage will shift the spool to full “B-port”. If an actuator with active fault monitoring receives a signal from the joystick that is less than 15% or greater than 85% of supply voltage the actuator will “fault out” and shut down. Also if there is an internal failure in the actuator or if the spool position is greater than that specified by the signal voltage from the joystick, the actuator will “fault out” and shut down. An “active fault” condition causes the actuator to drive the spool to neutral, shut down, and activate a “red” LED on the top of the actuator. The active fault can be canceled by simply cycling the Master Switch “OFF” and then “ON”, which resets the fault monitoring, and causes the LED on top of the actuator be “green” again.



The joystick control is equipped with signal adaption potentiometers.

These provide the capability to individually adjust the oil flow to each boom function. It is important that the boom functions do not travel too fast. Excessive boom speed can reduce the stability of the unit and decrease operator control.

Note: Use a Phillips screw driver and be sure to adjust the screws carefully! DO NOT turn the potentiometers beyond their stopping point, potentiometers are very delicate! Turning the “A” or “B” port potentiometers clockwise increases the oil flow to increase the boom function speed, and turning them counterclockwise decreases the oil flow to decrease the boom function speed. See the graphic on the next few pages for help in adjusting. (ASM-DF CALIBRATION SBR-0001)



ASSEMBLY

Run tractor at normal operating RPM to adjust the settings as follows.

Set the dead band compensation potentiometer first.

Set the dead band compensation potentiometer at 50%, or halfway between full clockwise and full counter-clockwise.

Setting Signal Adaptation Potentiometers:

Disconnect the Deutsch connectors from the actuators of the valve. Use a Volt/Ohm meter to measure signal voltage and adjust the signal adaptation potentiometers as needed. Pin #4 is tractor supply voltage. Pin #1 is signal voltage from the joystick, and pin #3 is ground. First measure supply voltage between pins 4 and 3. Then measure signal voltage between pins 1 and 3 while indexing the joystick function fully in both the "A" and "B" port direction. Divide the signal voltage by the supply voltage to get signal voltage as a % of supply voltage. This percentage should not be less than 25% or greater than 75% for the Main Boom, Secondary Boom, or Swivel function. This percentage should not be less than 30% or greater than 62% for the Deck Roll function. Note these initial settings for the Deck Roll function should prevent the spool from shifting into float. *After making this first adjustment to deck roll if the spool still goes into float, adjust the "B" port screw additionally counterclockwise.*

Reconnect Deutsch connectors on control cables to actuators on Danfoss valve. Run tractor until hydraulic system is at operating temperature. Now refine the adjustments of the signal adaptation potentiometers for both "A" and "B" ports for all proportional functions to achieve the following function times. Note: turning potentiometer clockwise increases the flow or the function speed, and turning them counter-clockwise decreases the flow or the function speed. Note, if during this procedure the trim potentiometer is set to full "counterclockwise" but the function is still too fast, use the mechanical stops at the manual actuator end of the valve section to further limit flow. Turn limit screw in or clockwise to limit flow. The upper limit screw limits flow to "B-port", and the lower limit screw limits flow to "A-port". However DO NOT adjust the limit screw on "B-port" of deck roll function. Limiting "B-port" will prevent "float" function.



ASSEMBLY

MAIN BOOM: “A” Port, Boom UP: 7-9 Seconds

(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.)

“B” Port, Boom Down: 6-8 Seconds

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

SECONDARY

BOOM: “A” Port, Boom Out: 8-10 Seconds

(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.)

“B” Port, Boom In: 8-10 Seconds

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

DECK ROLL: “A” Port, Deck Out: 7-9 Seconds

(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.)

“B” Port, Deck In: Target 5-6 Seconds (but DO NOT use Limit Screw)

(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.)

BOOM

SWIVEL: “A” Port, Boom Aft: 11-13 Seconds

(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.)

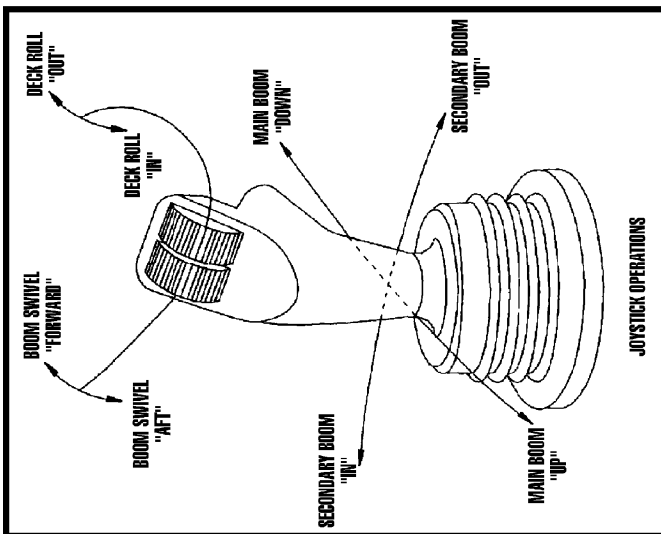
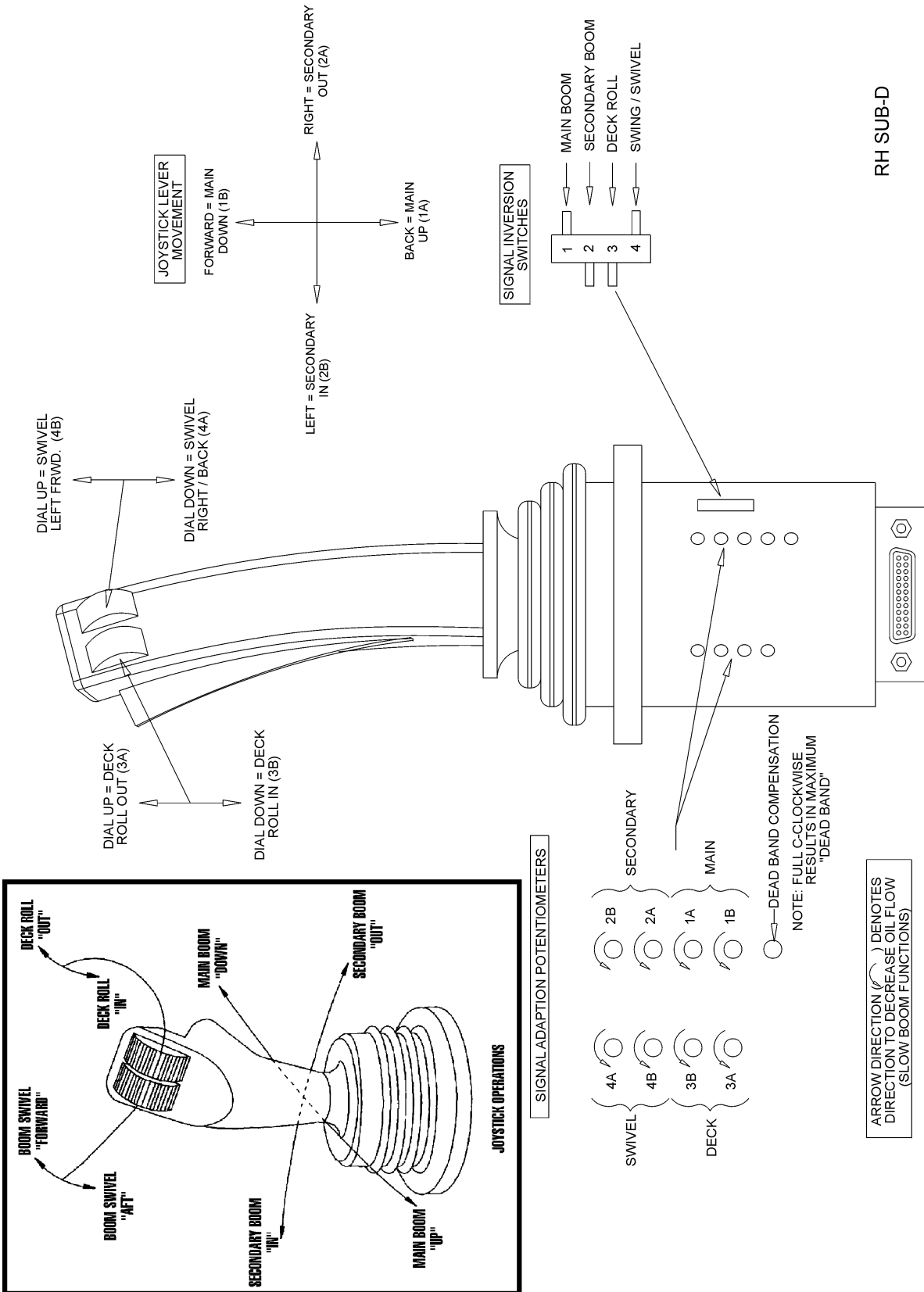
“B” Port, Boom Forward: 11-13 Seconds

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



ASSEMBLY

(ASM-DF CALIBRATION SBR-0001)



RH SUB-D



ASSEMBLY

SABER HOSE ROUTING

WARNING NOTE: The sudden release of hydraulic pressure could cause the sudden movement of very heavy parts. Anyone in the way of these parts could be severely hurt or killed. DO NOT ALLOW these hydraulic hoses to BREAK or BURST in order to prevent hydraulic failure. Make sure the hoses do not pinch or stretch as boom moves. Measure TWICE, check TWICE then proceed with caution.



Connect the hoses to the preformed tubes and move the boom arm to the farthest forward position. Route the hoses in the clamp as shown in the illustration above. Next, make sure there is enough slack for all hoses to pivot at the joint where the main boom arm bends in the swivel and tighten the clamp. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties. (ASM-NH-0084)

HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in parts section illustration. Insert tank sight glass into back side of the tank. Install the temperature sensor (optional) or pipe plug into side of the tank.

Place the tank in the mounting bracket on the main frame as shown in the parts section.

Secure the tank in the mounting bracket with the tank strap and nylock nuts.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator.

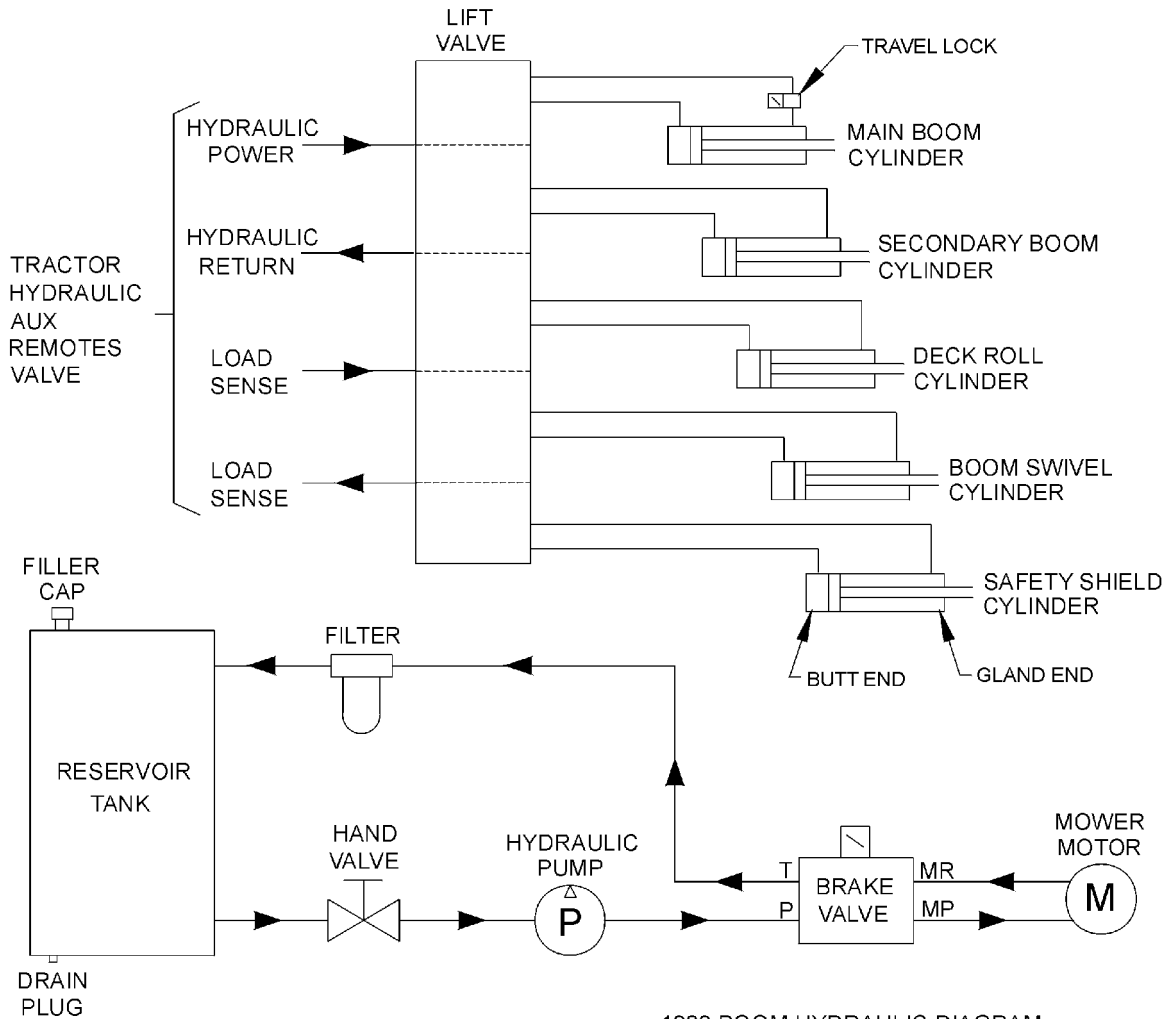
Locate the tank breather cap and install after tank is filled. (ASM-NH-0086)



ASSEMBLY

(ASM-C-0023)

BOOM HYDRAULIC DIAGRAM



FILLING HYDRAULIC RESERVOIR

Refer to the maintenance section for filling specifications and hydraulic oil requirements.

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

(ASM-C-0004hydro resrv)

INSTALLING O-RING FITTINGS

Installing straight, 45° and 90° O-rings requires that the O-ring and washer be up against the swivel body. Insert the swivel and turn in until the swivel is pointed in the desired direction and O-ring contact is made. Hold swivel in set direction with a wrench and turn the O-ring nut away from the swivel body and carefully tighten. (ASM-C-0056)



ASSEMBLY

INSTALLING NATIONAL PIPE FITTINGS

Whenever installing a pipe fitting, wrap the threads clockwise (looking at the end) with teflon tape. In this way, the tape will be tightened when installed. NOTE: It is not necessary to tape O-ring fittings, or those installed in swivels. (ASM-C-0088)

PREFORMED TUBE INSTALLATION

Lay booms on floor so that the side with the clamp plates is up. Locate all tube clamps and install them loosely onto the clamp plates.

Arrange the tubes and hoses as outlined in the Common Parts Section. Install the tubes closest to the boom arm first, being careful not to pinch the tubes. Place the other tubes outside of the first tubes. Snug all clamp bolts, but do not tighten. Check all tubes for correct alignment and that none are pinched or bent. The clamp bolts can now be tightened. (ASM-C-0085)

GENERAL HOSE INSTALLATION

Refer to the parts section for detailed information about hoses and fittings for this application. (ASM-C-0011)

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the main frame and the swivel as well as between the swivel and main boom with the hose covers provided. Also wrap the hoses between the main boom and secondary boom with the hose cover provided. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties. (ASM-NH-0087)

ACCUMULATOR INSTALLATION

Install the accumulator bracket on tube with holes provided on the main frame with the hardware shown. Install the accumulator in the bracket and secure with the hardware shown. Install fittings and hoses to the cylinder and control valve as shown in the parts section. (ASM-NH-0088)

SOLENOID BRAKE VALVE

Install a solenoid valve on the mounting bracket with the supplied hardware as shown in the Parts Section in this manual. While installing the fittings to the brake valve, the electrical coil on the spool may have to be removed to make room. When reinstalling the coil, it is important to use no more than 5 ft. lbs. (or 60in. lbs.) torque. WARNING: OVER TORQUE TO THE COIL WILL RESULT IN HYDRAULIC FAILURE OF SPOOL. (ASM-C-0025)

TEMPERATURE GAUGE MOUNTING (OPTIONAL)

Mount the temperature gauge where it is clearly visible to the operator. Attach the green (-) wire from the negative post on the gauge to a grounded bolt on the tractor frame. Remove paint if needed to make a good ground. Remove the pipe plug from the side of the hydraulic reservoir and install the temperature sensor using thread sealing tape. Run the white wire from the (s) sensor post of the gauge to the temperature sensor on the hydraulic reservoir tank. (ASM-C-0051)



ASSEMBLY

WHEEL WEIGHT MOUNTING

For all tractors using a boom mower, a wheel weight will be required on the wheel located opposite of the boom. It will be necessary to mount the weight in the wheel using the long capscrews, lockwashers, flatwashers, spacers (if applicable), and hex nuts per the diagram in the parts section.

Installation is most easily done with a fork lift, inserting a fork in the center slot of the wheel weight. The head of the capscrews is to be toward the OUTSIDE of the weight, with flatwashers on both the inside and outside of the assembly.

The tire may also be filled with a mixture of water and calcium chloride at about five pounds per gallon. Tire air pressure should be maintained according to the Maintenance Section.

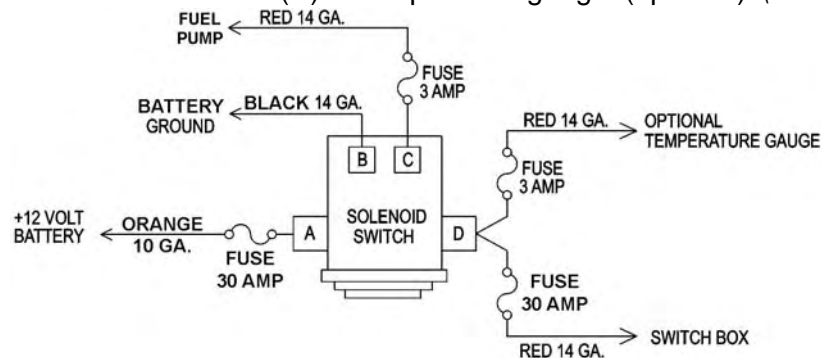
(ASM-NH-0089)

CONTINUOUS DUTY SOLENOID SWITCH

Mount the solenoid switch, drill holes to match if necessary, in a dry and well protected area. Secure as shown in the parts section with provided 3/8" x 1" capscrews, lockwashers, and hex nuts.

Route wires to and from the Continuous Duty Solenoid Switch as shown below.

- A.) ORANGE 10 GA. wire from terminal (A) to +12V battery fusible link.
- B.) RED 14 GA. wire from terminal (C) to tractor fuel pump.
- C.) BLACK 14 GA. wire from terminal (B) to -12V battery post.
- D.) RED 14 GA. wire from terminal (D) to switch box.
- E.) RED 14 GA. wire from terminal (D) to temperature gauge. (optional). (ASM-NH-0081)



SWIVEL BRACKET MOUNTING

Install the boom swivel bracket onto the main frame with the swivel pin. Secure the pin in place using the hardware provided through the hole in the boss and pin.

Install all new swivels fittings on the swing cylinder with swivel openings facing each other. Fittings will vary in type and direction depending on your application, refer to your parts section for more details.

Install bearings in the main frame anchor for the swing cylinder. This may already be done for you.

Install the swing cylinder between the main frame anchor and the boom swivel with the pins and hardware provided.

Now the hoses can be attached from the control valve to the swing cylinder. (ASM-NH-0090)



ASSEMBLY

MAIN BOOM INSTALLATION

Install the boom swivel into the main frame as shown in the parts section using a hoist. Line up holes in swivel and main frame for large swivel pin and insert pin. Secure with hardware as shown.

Attach the inner end of the main boom to the swivel bracket with the cylinder anchors positioned upward, and at a right angle to the tractor. Secure it with the horizontal hinge pin. Secure the hinge pin in the boss with capscrews, etc. (see Parts Section).

Attach the butt end of the main boom cylinder to the swivel with the cylinder pin and roll pins shown in the Parts Section.

Install the travel lock on the rod end of the main boom cylinder. This should be facing the butt end of the cylinder after installation.

Install the fittings and hoses to the main boom cylinder per Parts Section.

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

DECK ATTACHMENT

Attach the head to the secondary boom using the pins and hardware shown in the Parts Section. Install the deck pivot cylinder using the pins and hardware also shown in the Parts Section.

Connect the fittings and hoses from the pivot cylinder to the small preformed tubes on the boom arm. Connect the fittings and hoses from the motor to the large preformed tubes on the boom arm. If attaching a rotary mower make sure that the hose with the red strip sticker is attached to the motor pressure port which is marked with a red dot sticker.

Connect all remaining hoses from the control balbe to the cylinders and/or preformed tubes on the boom arm. *(ASM-C-0086)*



ASSEMBLY

FINAL PREPARATION FOR OPERATION

Place operators safety and operation decals on the steering column and side counsel where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the safety and operation section of this book. The decals are to be maintained in good condition as a reminder to the operator, and should be replaced if damaged.

Finally, all bosses, pins and pivot points will need to be greased as instructed in the maintenance section of this manual. The hydraulic reservoir can also be filled with the recommended fluid (see maintenance section) and the filter installed in the top of the tank. Double check all fittings and fasteners BEFORE starting tractor. Also secure any loose hoses together with zip ties and wrap with split hoses where friction may occur on the hoses.



BEFORE starting or operating the tractor you must read and understand the safety and operation sections of this manual completely.

BE SURE THE BALL VALVES ARE OPEN! Start tractor and allow instruments to stabilize. Using a piece of paper or cardboard as noted in the safety and maintenance sections, check all fittings and connections for hydraulic leaks.

If a leak is found, you must shut down the tractor, set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

Before operating the mower, the cutter head and boom should be slowly moved throughout the full range of motion. Watch for any condition that would cause pinching or excess stress on the hoses. The steering and front axle travel should also be carefully moved through their full range of motion. If any condition occurs in which the hoses contact the tires, the steering and / or front axle travel may need to be limited as described in the tractor operators manual. This should also be done if the tires rub, or are extremely close to any other part of the mower such as the hydraulic tank or draft beam. This may include adding shims, or adjusting stop bolts in the tractor front to solve the problem. While checking motion, you should also check that the control circuits are connected according to the operators decal for the valve handles.

MOWER TESTING

Take the tractor to a place free of loose objects on the ground. Operate the cylinders through their full range of motion again, to clear the lines of air. Follow the instructions in the operation section to operate the mower. Vibration of the mower should be minimal at all times. After a 5 minute test run, the knife bolts should be retorqued and once again after the first few hours of operation.

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



OPERATION SECTION

Operation Section 3-1

OPERATION

TIGER TV SABER BOOM MOWER OPERATING INSTRUCTIONS

Safety is of primary importance to the owner/operator and to the manufacturer. Tiger Saber Booms are manufactured with quality material by skilled workers. 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. The Saber Boom is equipped with safety warning decals, protective deflectors, shields and other safety features to provide operator and passerby protection, however, no shielding is 100% accurate. All safety equipment and safety warning decals must be maintained on the unit in good operational condition at all times. It is the operators responsibility to be knowledgeable of all potential hazards and to take every reasonable precaution to ensure oneself, others, animals, and property are not injured or damaged by the boom unit, tractor or a thrown object. Do not operate the boom and attached head if bystanders, passerby, pets or livestock are within 300 feet of the unit. Many of the messages will be repeated throughout the manual. The owner / operator / dealer should know these Safety Messages and Operating Instructions before assembly and be aware of the hazards of operating this mower during assembly, use, and maintenance of this equipment.

The Safety Alert Symbol combined with a signal word, as seen below, is intended to warn the owner / operator of impending hazards and the degree of injury possible during operation.



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 and convenient operation or repair.

This section of the Operator's Manual is designed to familiarize, instruct and educate operators to the safe and proper use of the Saber Boom. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a Saber Boom and are not specific to a Saber Boom. Some pictures may show shields removed to enhance visual clarity. NEVER operate the boom unit without all safety equipment in place and in good operational condition. The operator must be familiar with the boom unit and tractor operation and all safety practices before beginning operation. Proper operation, as detailed in this manual, will help ensure years of safe and satisfactory use of the Saber Boom.

READ AND UNDERSTAND THE ENTIRE OPERATING INSTRUCTIONS AND SAFETY SECTION OF THIS MANUAL AND THE TRACTOR MANUAL BEFORE ATTEMPTING TO USE THE TRACTOR AND IMPLEMENT. If you do not understand any of the instructions, contact your nearest authorized dealer for a full explanation. Pay close attention to all safety signs and safety messages contained in this manual and those affixed to the implement and tractor. (OPS-U- 0001)

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



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!



OPERATION

1. OPERATOR REQUIREMENTS

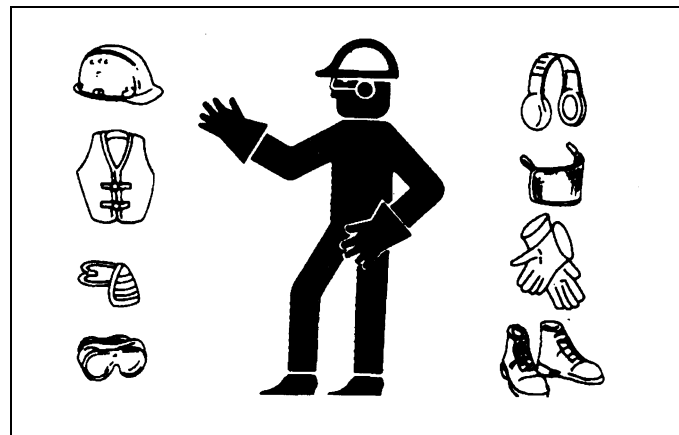
Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained in this manual, safety signs are affixed to the implement and tractor. If any part of the operation and safe use of this equipment is not completely understood, consult an authorized dealer for a complete explanation.

If the operator cannot read the manuals for themselves or does not completely understand the operation of the equipment, it is the responsibility of the supervisor to read and explain the manuals, safety practices, and operating instructions to the operator.

Safe operation of equipment requires that the operator wear approved Personal Protective Equipment (PPE) for the job conditions when attaching, operating, servicing, and repairing the equipment. PPE is designed to provide operator protection and includes the following safety wear:

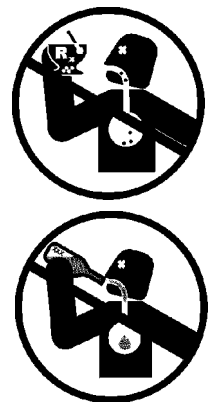
PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Always Wear Safety Glasses
- Hard Hat
- Steel Toe Safety Footwear
- Gloves
- Hearing Protection
- Close Fitting Clothing
- Respirator or Filter Mask (depends on operating conditions) (OPS-U-0002)



⚠ 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)



OPERATION

OPERATION

2. TRACTOR REQUIREMENTS

In addition to tractor horsepower and size required to operate the boom unit, the tractor must also be properly equipped to provide operator protection, to alert approaching vehicle drivers of the tractor's presence, and to ensure tractor stability when mowing with the boom fully extended.

Tractor Requirements and Capabilities

- ASAE approved Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt.
- Operator Protection Tractor must be equipped with protective structure such as operator's cage or lexan window to protect operator from thrown object and falling objects
- Tractor Safety Devices Slow Moving Vehicle (SMV) emblem, lighting,
- Tractor Ballast As required to maintain at least 1500 lbs. on left rear tire

2.1 ROPS and Seat Belt

The tractor must be equipped with a Roll-Over-Protective-Structure (ROPS) (tractor cab or roll-bar) and seat belt to protect the operator from falling off the tractor, especially during a roll over where the driver could be crushed and killed. Only operate the tractor with the ROPS in the raised position and seat belt fastened. Tractor models not equipped with a ROPS and seat belt should have these life saving features installed by an authorized dealer. *OPS-U- 0003*



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)



2.2 Operator Thrown Object Protection

The tractor must be equipped with protective equipment to shield the operator from falling and thrown objects. For cab tractors, the tractor must be equipped with an operator safety screen on its right side or the right side windows must be fitted with a shatter resistant safety window. For non-cab tractors, the tractor must be equipped with a ROPS and operator protective safety cage that provides protection to the right and above the operator seat. DO NOT remove the ROPS from non-cab tractors to equip a safety cage.

OPS-B- 0001



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 300 feet. (SBM-9)



OPERATION

2.3 Tractor Lighting and SMV Emblem

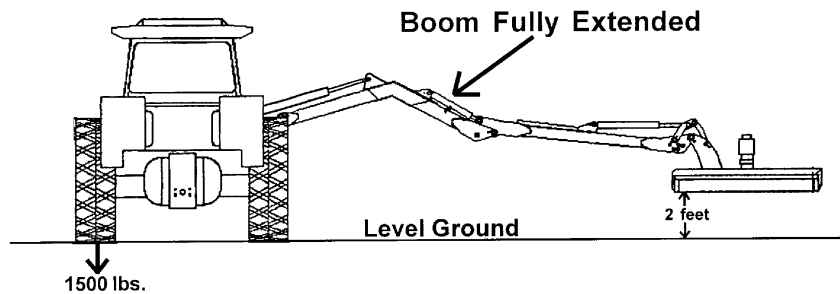
If the tractor will be operated near or traveled on a public roadway it must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem which are clearly visible from the rear of the unit. Most tractor's have different settings for operating and transporting lighting. Refer to the tractor operator's manual for using the tractor's light switch and operating the turn signals.

OPS-B- 0017

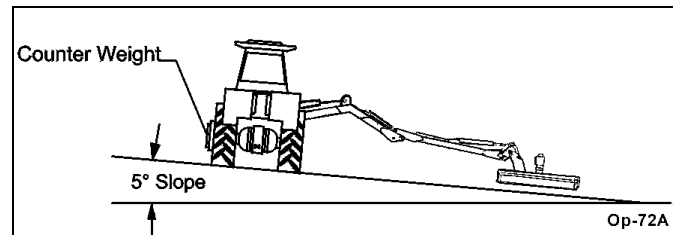


2.4 Tractor Ballast

To ensure tractor stability when operating on flat surfaces the left rear tractor tire MUST exert a minimum down force (weight) of 1500 lbs. on the ground when the tractor is on level ground, its boom is fully extended and the mower head is horizontal and two feet above the ground. For units which have the ability to operate on either side of the tractor, these requirements must also be met for the right side tire when the boom is extended to the left side as described above. A tractor that does not meet this criteria is DANGEROUS and should not be operated as upset of the unit can occur resulting in possible serious injury and property damage. NOTE: All factory mounted units are tested and meet the ballast requirement before shipment; further testing is not required unless the unit is operated in a manner other than what is considered standard operating conditions.



If the unit is operated on slopes greater than 5°, additional counterweight will be required. Operation of the unit on slopes greater than 11 percent (6.4 degrees) is not recommended under any circumstances. On a tractor with a 96" outside to outside tire spread, an 11 percent (6.4 degrees) slope occurs when one rear tractor tire is about 8" lower than the other rear tire. OPS-B- 0018



OPERATION

3.GETTING ON AND OFF THE TRACTOR

Before getting onto the tractor, the operator must read and completely understand the implement and tractor operator manuals. If any part of either manual is not completely understood, consult an authorized dealer for a complete explanation. *OPS-U- 0007*



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



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 300 feet. (SBM-9)



3.1 Boarding the Tractor

Use both hands and equipped handrails and steps for support when boarding the tractor. Never use control levers for support when mounting the tractor. Seat yourself in the operator's seat and secure the seat belt around you.

Never allow passengers to ride on the tractor or attached equipment. Riders can easily fall off and be seriously injured or killed from falling off and being ran over. It is the operator's responsibility to forbid all extra riders at all times. *OPS-U- 0008*



Never allow children to operate, ride on, or come close to the Tractor or Implement. Usually, 16-17 year-old children who are mature and responsible can operate the implement with adult supervision, if they have read and understand the Operator's Manuals, been trained in proper operation of the tractor and Implement, and are physically large enough to reach and operate the controls easily. (SG-11)



3.2 Dismounting the Tractor

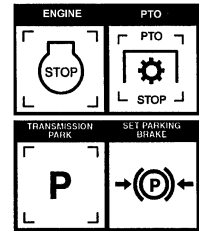
Before dismounting the tractor, idle the tractor engine down, disengage the head and retract the boom arm to the transport position. Park the tractor on a level surface, place the transmission in neutral and set the parking brake. Shut down the tractor engine, remove the key, and wait for all motion to come to a complete stop before exiting the operator's seat. NEVER leave the seat until the tractor, its engine, and mower head movement have come to a complete stop.

Use hand rails and extra steps when exiting the tractor. Be careful of your step and use extra caution when mud, ice, snow, and other matter has accumulated on the steps and handrails. Never rush or jump off the tractor. *OPS-B- 0002*

OPERATION



BEFORE leaving the tractor seat, always set the parking 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)



4.STARTING THE TRACTOR

The operator must have a complete understanding of the placement, function, and operational use of all tractor controls before starting the tractor. Review the tractor operator's manual and consult an authorized dealer for tractor operation instructions if needed.

Essential Tractor Controls:

- Locate the ignition key/switch
- Locate the engine shut off control
- Locate the hydraulic control levers
- Locate the light control lever
- Locate the brake pedals and clutch
- Locate the PTO control
- Locate the 3 point hitch control lever
- Locate the boom operating controls (joystick or valve bank)

Before starting the tractor ensure the following:

- Conduct all pre-start operation inspection and service according to the tractor operator's manual.
- Make sure all guards, shields, and other safety devices are securely in place.
- The parking brake is on.
- The tractor transmission levers are in park or neutral.
- The boom operating controls are in the neutral and off position.
- The PTO control lever is disengaged.
- The hydraulic remote control levers are in the neutral position.

Refer to the tractor owner's manual for tractor starting procedures. Only start the tractor while seated and belted in the tractor operator's seat. Never bypass the ignition switch by short circuiting the starter solenoid. After the tractor engine is running, avoid accidental contact with the tractor transmission to prevent sudden and unexpected tractor movement. OPS-B- 0003



Never run the Tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health. (SG-23)

OPERATION

OPERATION



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)



When rotating parts are in motion, serious injury may occur if caution is not used or danger is not recognized. Never allow bystanders with 300 yards of the machine when mower is in operation.



Be sure the ball valve on the mower hydraulic tank are OPEN before starting the tractor. Serious damage to the hydraulic system can occur if the valves are not open

5. PRE-OPERATION INSPECTION AND SERVICE

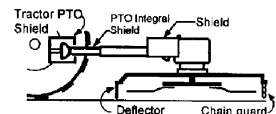
Before each use, a pre-operation inspection and service of the implement and tractor must be performed. This includes routine maintenance and scheduled lubrication, inspecting that all safety devices are equipped and functional, and performing needed repairs. DO NOT operate the unit if the pre-operation inspection reveals any condition affecting safe operation. Perform repairs and replacement of damaged and missing parts as soon as noticed. By performing a thorough pre-operation inspection and service, valuable down time and repair cost can be avoided. OPS-U-0029



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 between attaching hardware. Serious injury may occur from not maintaining this machine in good working order. (SG-21_A)



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)



OPERATION

5.1 Tractor Pre-Operation Inspection/Service

Refer to the tractor operator's manual to ensure a complete pre-operation inspection and scheduled service is performed according to the manufacturers recommendations. The following are some of the items that require daily service and inspection:

- Tire condition/air pressure
- Wheel lug bolts
- Steering linkage
- PTO shield
- SMV sign is clean and visible
- Tractor's lights are clean and functional
- Tractor Seat belt is in good condition
- Tractor ROPS is in good condition
- ROPS is in the raised position
- No tractor oil leaks
- Radiator free of debris
- Engine oil level and condition
- Engine coolant level and condition
- Power brake fluid level
- Power steering fluid level
- Fuel condition and level
- Sufficient lubrication at all lube points
- Air filter condition *OPS-U-0030*

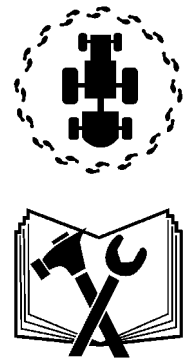


5.2 Boom Unit Pre-Operation Inspection and Service

Inspect and service the boom arm and head prior to operation. Damaged and/or broken parts should be repaired and/or replaced immediately. To ensure the unit is ready for operation, conduct the following: *OPS-B- 0020*

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 have attaching hardware. Serious injury may occur from not maintaining this machine in good working order. (SG-21_A)



OPERATION

The operator's manual and safety signs affixed on the unit contain important instructions on the safe and proper use of the equipment. Maintain these important safety features on the implement in good condition to ensure the information is available to the operator at all times.

- Ensure all safety signs are in place and legible. Replace missing, damaged, and illegible decals. *OPS-U-0011_A*



FRAME ASSEMBLY

- Inspect condition of mounting frame weldment.
- Inspect condition of Swivel Assy.
- Ensure all bolts and screws are in position and are properly torqued.
- Ensure all pins are in place and fastened with screws.
- Ensure frame is properly mounted to tractor and hardware is properly installed and tightened. *OPS-B-0021_E*



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)



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)

OPERATION

BOOM ARM ASSEMBLY

- Inspect condition of each arm section weldment
- Ensure all pins are in place.
- Ensure all bolts, nuts and rollpins are properly installed.
- Check condition of bushings at boom pivot points and hydraulic cylinder tangs.
- Ensure each hydraulic cylinder is installed and retained correctly. Ensure the proper size pins are used to retain the cylinders in place and are secured properly. OPS-B- 0022_D

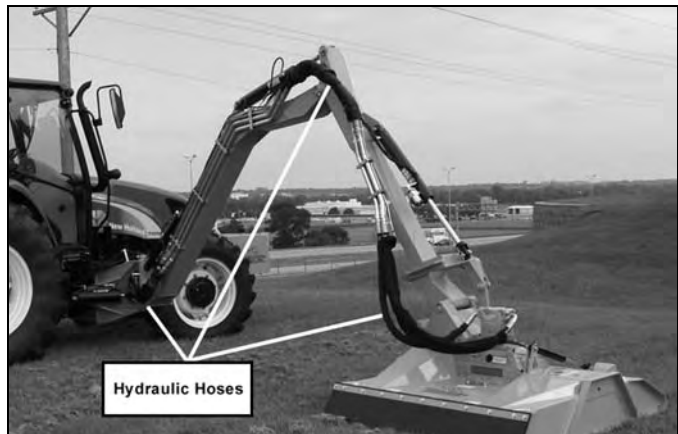


WARNING

Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running. (SG-20)

HYDRAULIC LINE INSPECTION

- Check for hydraulic leaks along hoses, cylinders and fittings. **IMPORTANT: DO NOT** use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks.
- Inspect the condition of the valve mounting.
- Ensure fittings are properly connected. OPS-B- 0023_D



WARNING

Do not operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard. Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves, safety glasses and use Cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



OPERATION

OPERATION

HYDRAULIC PUMP/OIL RESERVOIR

- Check oil reservoir level and oil condition. (Add specific type oil if low)
- Change hydraulic oil filter and hydraulic oil according to maintenance schedule.
- Ensure there are no oil leaks and fitting are properly connected
- Inspect overall condition of hydraulic pump.
- Inspect pump drive shaft.



Check the fluid level in the Hydraulic Tank on the Tractor, and add oil if required. As the air has been forced out of the Cylinders and Hoses, it goes into the Hydraulic Tank and reduces the volume of oil. Maintain the oil level within the sight gauge located on the side of the reservoir. Never fill the tank above the sight gauge to allow for the expansion of the oil. The tank maintains pressure after the mower has been run. Stand off to one side when removing the breather cap element to prevent possible injury. OPS-B 0024_G

WARNING

Attention: Oil Filler Cap is also the Pressure Relief Cap.

Remove cap slowly to relieve pressure before removing cap completely. Stay clear to prevent being scalded with hot oil that may spray out of the tank that is still pressurized and may cause serious injury to eyes, face, and exposed skin. (Ops-0001-MISC)

WARNING

Avoid contact with hot surfaces including hydraulic oil tanks, pumps, motors, valves and hose connections. Relieve hydraulic pressure before performing maintenance or repairs. Use gloves and eye protection when servicing hot components. Contact with a hot surface or fluid can cause serious injury from burns or scalding. (SG-34)

OPERATION

ROTARY HEAD INSPECTION

- Inspect blades and blade bolts for looseness and excessive wear. Rotate to 90° to make for checking easier. Replace damaged, worn, and missing blades as complete sets to maintain rotary balance.
- Ensure motor bolts and nuts are tightened to the appropriate torque.
- Ensure rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure hydraulic lines are properly connected to the hydraulic motor. Check for hydraulic leaks along hoses and fittings. **DO NOT** use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks.
- Inspect the condition of deck skid shoes and hardware. *OPS-B- 0025*



WARNING

Do not put hands or feet under mower decks. Blade Contact can result in serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-09)



DANGER

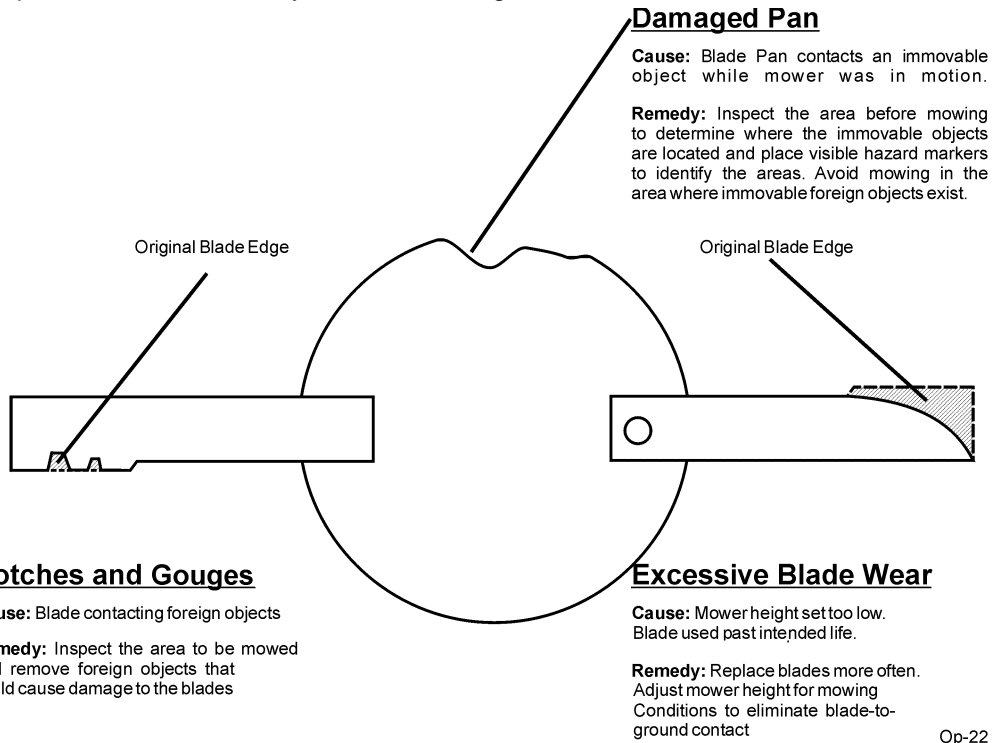
All Safety Shields, Guards and other safety devices including (but not limited to) - Deflectors, Steel Guards and Gearbox Shields must be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact. (SSM-07)

OPERATION

OPERATION

5.3 Cutting Component Inspection

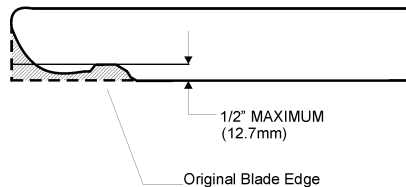
Inspect blade pan and blade assembly for the following: OPS-U-0031



Inspect the Blades daily for abnormal wear. REPLACE BOTH BLADES on that carrier IMMEDIATELY if either blade has:

- Become bent or deformed from it's original shape 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 1/2"(12.7mm), or
- The material on the leading edge has been worn away by more than 1/2(12.7mm)"

Failure to replace abnormally worn 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. OPS-U-0032



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

OPERATION

5.4 Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

Excessive Blade Bolt Wear

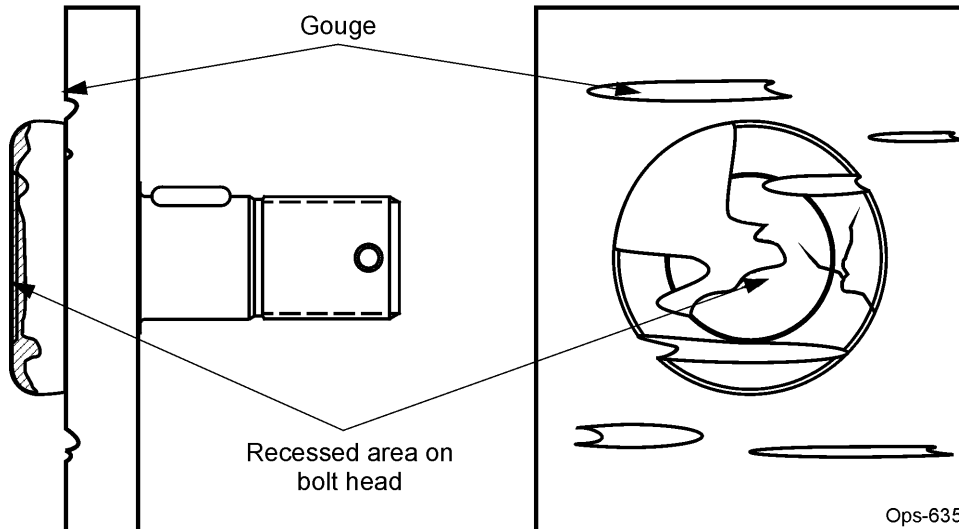
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

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

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

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



Inspect the Blade Bolt Heads daily for abnormal wear. REPLACE BOTH BLADE BOLTS on the Blades IMMEDIATELY if either blade bolts has:

- Visible cracks or
- If the recessed area on blade bolt is worn off or
- If Blade Bolt has gouges or chipped areas.

Failure to replace abnormally worn blade bolts 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 whenever replacing the Blades. OPS-U-0037

OPERATION

Tractor PRE-OPERATION Inspection



Mower ID# _____ Make _____

Date: _____ Shift _____



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

OPERATION

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

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

This Inspection Form may be freely duplicated for extra copies.

OPERATION

Boom PRE-OPERATION Inspection



Mower ID# _____ Make _____
 Date: _____ Shift _____



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

Table 1:

| Item | Condition at Start of Shift | Specific Comments if not O.K. |
|---|-----------------------------|-------------------------------|
| The Operator's Manual is in the tractor | | |
| All safety decals are in place and legible | | |
| The mounting frame bolts are in place and tight | | |
| The boom connection bolts & pins are tight | | |
| There are no cracks in boom | | |
| The hydraulic cylinders pins are tight | | |
| The hydraulic pump hose connections are tight | | |
| The hydraulic valve controls function properly | | |
| There are no leaking or damaged hoses | | |
| The hydraulic oil level is full | | |
| There is no evidence of hydraulic leaks | | |
| The blades are not chipped, cracked or bent | | |
| The blade bolts are tight | | |
| The deflectors are in place and in good condition | | |
| The boom shields are in place and in good condition | | |
| The skid shoes are in good condition and tight | | |
| There are no cracks or holes in boom deck | | |
| The hydraulic motor mounting bolts are tight | | |
| The boom head spindle housing is tight and lubricated | | |

Operator's Signature: _____

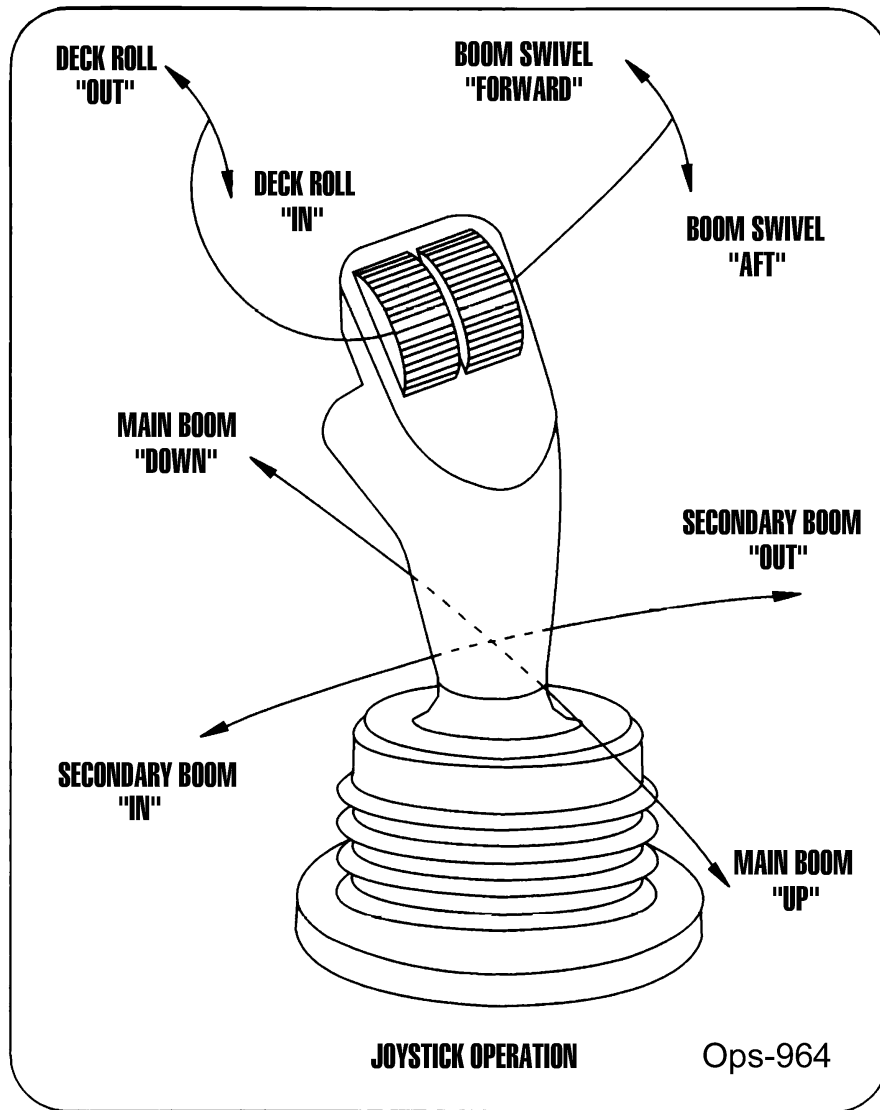
DO NOT OPERATE an UNSAFE TRACTOR or MOWER

OPERATION

OPERATION

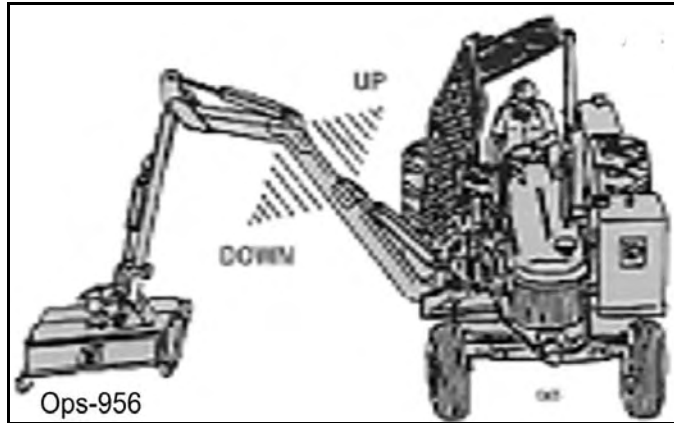
JOYSTICK CONTROL

OPERATION

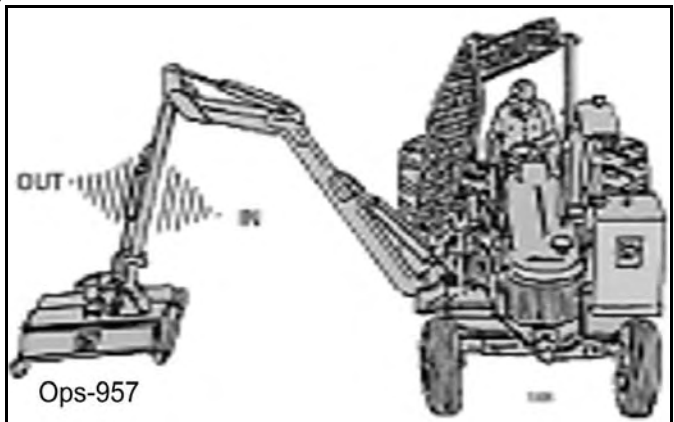


OPERATION

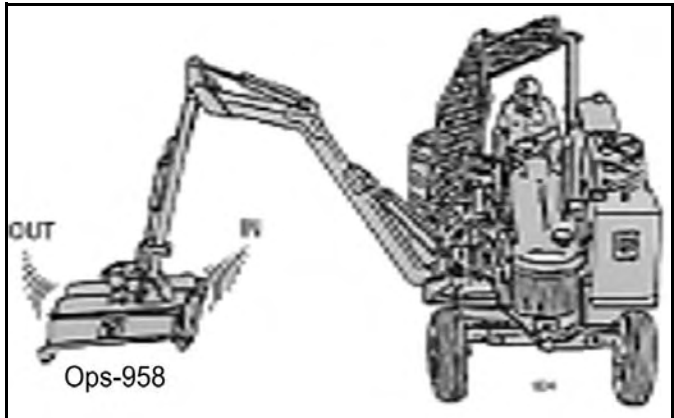
JOYSTICK FW/BACK MOVES MAIN BOOM



JOYSTICK LEFT/RIGHT MOVES SECONDARY BOOM



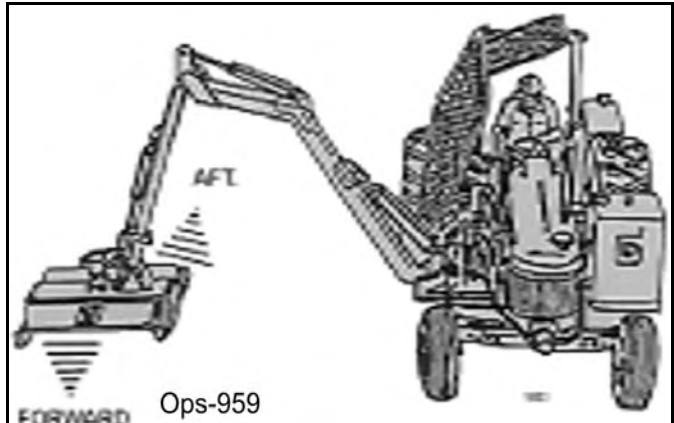
LEFT JOYSTICK ROLLER MOVES DECK ROLL



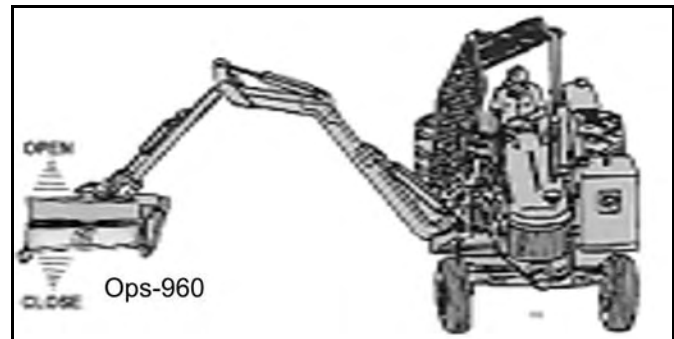
OPERATION

OPERATION

RIGHT JOYSTICK ROLLER MOVES BOOM SWIVEL



SHIELD SWITCH(on switch box) OPERATES SAFETY SHIELD



5.5 Switchbox

The Safety Shield lever opens and closes the shield located on the front of the cutter head. When moving at or near the ground, always have the shield in the closed position. When moving in the brush or in trees above ground level the shield may be opened for easier cutting. Read and follow the warnings on the decal shown on the next page.



OPERATION



DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

| | |
|---|---|
| <p>SAFETY SHIELD</p>  <p>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. |
|---|---|

02967867

OPERATION



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)



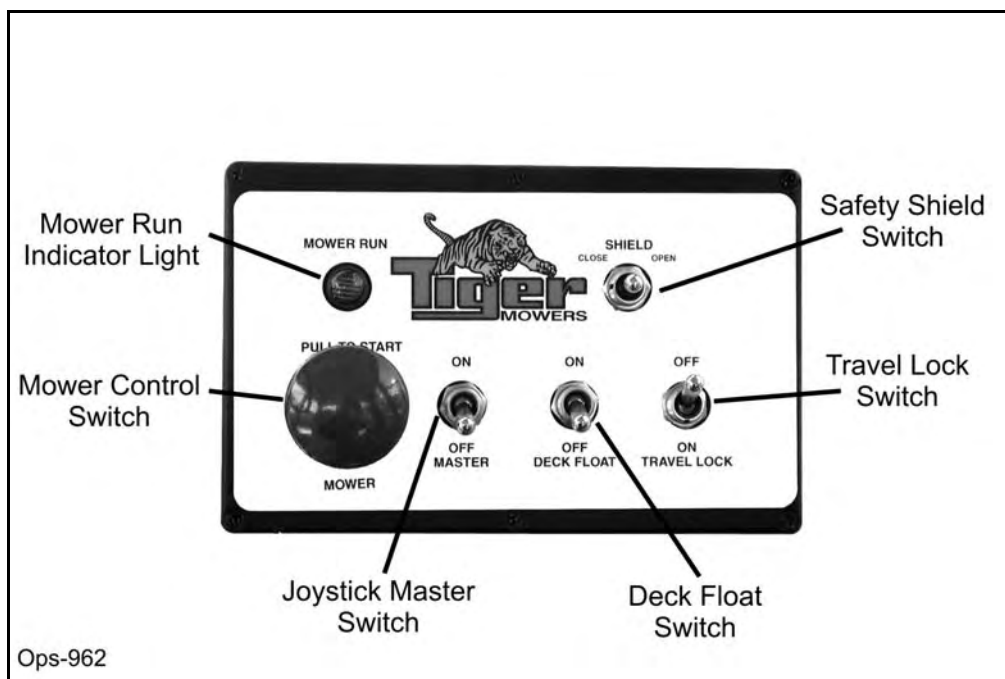
Check to make sure mower switch is in the "OFF" position. The unit is designed not to start if the switch is in the "ON" position. If tractor starts with switch on, turn off tractor and contact your local Tiger dealership for assistance.

Start the tractor and allow the instruments to stabilize. Without starting the mower, practice positioning the boom and deck. Remember speed and skill will be attained easier if the necessary time is spent familiarizing yourself with the machine and its operations. When you feel comfortable at controlling the position of the mower, return the mower to the travel position, and transport the mower to the desired mowing location.

If mowing for the first time with a Tiger Saber Boom Mower, we recommend choosing a ditch or area relatively flat with a minimum of sign posts, guard rails, etc. As always, you should inspect the area for other objects that can cause potential hazards.

OPERATION

5.6 Main Control Switch Box



The Mower Control switch turns the mower “ON” and “OFF”. This switch is to be in the “OFF” position to start the tractor. If the switch is “ON” and the tractor ignition switch is turned to “ON” the red “mower run” indicator light will come on. However, the tractor will not start again with the Mower Control switch in the “ON” position. Upon starting the tractor the “mower run” indicator light may flash briefly, and may flash briefly again when the tractor is shut down.

WARNING

If tractor starts with switch on, turn off tractor and contact your local Tiger dealership for assistance.

WARNING

NOTE: DO NOT operate mower head while boom is in the boom rest! Red “Mower Run” light indicates mower is “ON” when tractor engine is running.

The boom functions are controlled by an electric joystick. The Joystick Master Switch enables the joystick control for controlling the boom motion functions. This switch is to be in the “OFF” position when starting the tractor and when boom is stowed for transporting the machine.

CAUTION

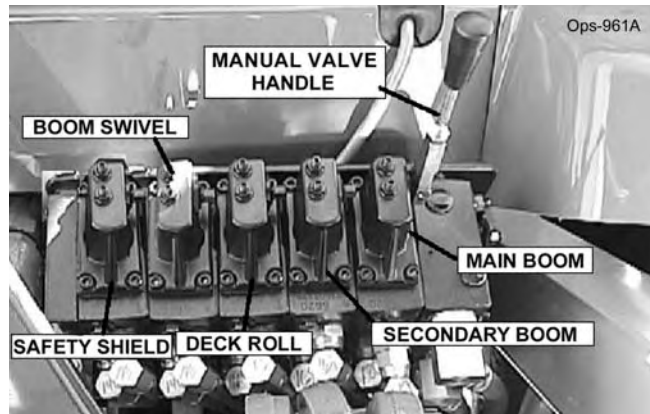
If the joystick is not operating properly, turn the master switch to the “OFF” position. Install the manual valve handle onto valve and operate the functions individually to stow boom. After boom is stowed in rest, transport the unit to the maintenance facility and contact your Tiger dealer for assistance.

CAUTION

DO NOT attempt to operate the valve manually for mowing operations!

Note: Pushing manual valve handles “out” or “away” from the tractor cab will bring the main boom “up”, secondary boom “out”, roll deck “out” and swivel boom “aft”. Pulling manual handles toward cab will let main boom “down”, secondary boom “in”, roll deck “in”, swivel boom “forward”, and “close” the safety shield.

OPERATION



The Master Switch also provides power to the “Deck Float”, “Shield” and “Travel Lock” Functions of the mower deck.

The Deck Float function allows the ground roller of the flail mower head to follow the contour of the ground. To operate the deck float function, the Master switch must be in the “ON” position and the Travel Lock switch must be in the “OFF” position. Lower the mower head to just touch the ground, then turn the deck float switch “ON”.



The Deck Float is to be used ONLY when the flail mower head is on the ground. The mower head CAN NOT be controlled with the joystick when Deck Float is “ON”.



The deck float is to be used only when mowing with a flail head, using the deck float with a rotary head may damage the mower.

The Safety Shield switch opens and closes the shield located on the front of the cutter head. When mowing at or near the ground, always have the shield in the closed position. When mowing in brush or in trees above ground level the shield may be opened for easier cutting. Read and follow the warnings on the decal shown below.

DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

| | |
|---|--|
| <p>SAFETY SHIELD</p> <p>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. 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. <p style="text-align: right; font-size: 0.8em;">02967867</p> |
|---|--|



The Travel Lock function locks the mower head in the up-right position for road travel. Prepare unit for travel by rolling deck completely out (mower deck rolled back adjacent to secondary boom.) Then place main and secondary booms in boom rest. The Travel Lock switch can now be engaged.

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

OPERATION

6.DRIVING THE TRACTOR AND IMPLEMENT

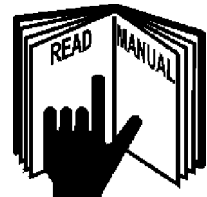
Safe tractor transport requires the operator to possess a thorough knowledge of the model being operated and precautions to take while driving with an attached implement. Ensure the tractor has the capacity to handle the weight of the boom and the tractor operating controls are set for safe transport. To ensure safety while driving the tractor with a boom, review the following.

Read all safety instructions. Decals on the Boom warn you of particular and multiple hazards. Some decals are attached close to part of the Boom where there is a possible hazard. Read and make sure you understand the safety messages before you operate the implement. Keep all decals clean and readable. Replace lost or damaged decals, refer to safety section for more information.

Keep all person's well clear of mower since blades can throw objects with great velocity for a considerable distance! **KEEP CLEAR!** OPS-B- 0005



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 or Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)



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

OPERATION

WARNING

Transport only at speeds where you can maintain control of the equipment. Serious accidents and injuries can result from operating this equipment at high 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 proper transport speeds for you and the equipment. Make sure you abide by the following rules:

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 transport speed not to exceed 20 mph (30 kph) for transporting this equipment.

Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that the equipment can be operated 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 turning speed for you and this equipment before operating on roads or uneven ground.

Only transport the Tractor and Implement at the speeds which allow you to properly control the equipment.

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes or worn tires. 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)



OPERATION

6.1 Starting the Tractor

The procedure to start the tractor is model specific. Refer to the tractor operator's manual for starting procedures for your particular tractor. Consult an authorized dealer if the starting procedure is unclear. Ensure the 3-point control lever is in the lowered position and the PTO is disengaged before starting the tractor. OPS-U-0033



OPERATION

OPERATION

6.2 Brake and Differential Lock Setting

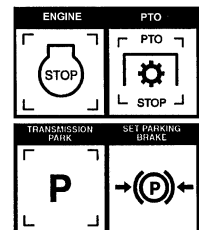
Make sure the tractor brakes are in good operating condition. Tractor brakes can be set to operate independently allowing single rear wheel braking action or locked together to provide simultaneous rear wheel braking. **FOR MOST DRIVING AND OPERATING CONDITIONS, THE BRAKE PEDALS SHOULD BE LOCKED TOGETHER TO PROVIDE THE MOST EFFECTIVE BRAKING ACTION.**

Always disengage the tractor differential lock when turning. When engaged the differential lock will prevent or limit the tractor from turning. During normal cutting conditions, locking the differential provides no benefit and should not be used.

OPS-U- 0013



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



Never 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)



OPERATION

6.3 Driving the Tractor and Boom

Start off driving at a slow speed and gradually increase your speed while maintaining complete control of the tractor. Never operate the tractor at speeds that cannot be safely handled or which will prevent the operator from stopping quickly during an emergency. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be difficult to control.

Perform turns with the tractor and mower at slow speeds to determine how the tractor with an attached implement handles a turn. Determine the safe speed to maintain proper control of the tractor when making turns. When turning with the implement the overall working length and width of the unit is increased. Allow additional clearance for the unit when turning or when passing large obstructions.

To avoid overturns, drive the tractor with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Use extreme caution when operating on steep slopes. Keep the tractor in a low gear when going downhill. **DO NOT** coast or free-wheel downhill.

OPS-B- 0006_A



OPERATION

OPERATION

7. OPERATING THE BOOM UNIT AND ATTACHED HEAD

THE OPERATOR MUST COMPLETELY UNDERSTAND HOW TO OPERATE THE TRACTOR AND MOWER AND ALL CONTROLS BEFORE ATTEMPTING TO MOW. The operator must read and understand the Safety and Operation Sections of this manual and the tractor operator's manuals. These manuals must be read and explained to any operator who cannot read. Never allow someone to operate the unit without complete operating instructions.

To ensure safety to the operator, bystanders, and equipment and before starting any mowing operation. The operator must become familiar with the area to be mowed, and any obstacles and hazards contained within. Special attention should be paid to foreign debris, overhead obstructions, rough terrain, steep slopes, passersby and animals in the area.

Only operate the mower head from the tractor operator's seat with the seatbelt securely fastened. Only operate a boom and equipped head on cabbed tractor that is equipped with a polycarbonate safety-protected right side window or a non cabbed tractor equipped with a ROPS and operator safety screen.

Avoid operating in the reverse direction when possible. In situations where the boom and mower must be backed to access areas to be cut, make sure there are no persons or other foreign debris behind the tractor. When backing, operate the tractor at a much reduced ground speed to ensure complete control of the unit is maintained. *OPS-B- 0007*



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



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 300 feet (90 m) 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 these type of items discontinue mowing. (SGM-01)



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-08)



Never operate the mower head tilted down where the operator can see the blades of the mower. The blade could throw an object toward the operator causing serious injury or death. Never operate the mower without an Operator Protective Structure. Always wear safety glasses and a hard hat. (Ops-0005-MISC)

OPERATION

7.1 Foreign Debris Hazards/Overhead Obstructions

An area to be cut must first be inspected for objects that could be thrown or that could damage the machine. Walk through the area looking for fences, boulders, rocks, culverts, stumps or metal objects. Mark the inspected area with flags. If the area is dense and cannot be walked thoroughly it may be necessary to inspect a smaller area as well as possible, then trim away the part that has been inspected and can safely be removed. Walk each new area again and repeat the inspection before cutting more away. Repeat as often as necessary until the area is cleared. It can be damaging and/or dangerous to work the cutter in an area that has not been visually inspected.

Place DANGER signs at least 300 feet beyond the perimeter of the area to be worked, not just 300 feet from where the machine started operating! It is convenient in many cases to work in 300 foot sections. Move the first Danger sign to the beginning of the freshly cleared area, place it, then take the first cutting area flag up to the end of the freshly cleared area 300 feet away. Walk and inspect the next 300 feet and place the second cutting area flag. Pick up the second DANGER sign, and take it a further 300 feet along the road or trail. Note that in many cases the DANGER area will extend in front of and behind the machine as well as along each side. Post signs accordingly. OPS-B- 0008



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-05)



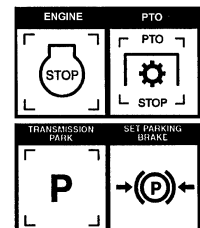
Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect 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-06)



Mow at the speed that you can safely operate and control the tractor and mower. The correct mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 2 to 5 mph(3-8 kph). 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-07)



BEFORE leaving the tractor seat, always set the parking 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)



OPERATION

7.2 Operating Speed and Ground Speed

Ground speed for mowing will depend upon the height, type, and density of vegetation to be cut. Do Not exceed 5 MPH while operating. Operate the mower at its full rated RPM to maintain blade speed for a clean cut. Refer to the tractor operator's manual or the tractor instrument panel for the engine speed and gear to provide the desired ground speed. Make sure that the mower is operating at its full rated speed before entering the vegetation to be cut. Always start and stop cutting blades with engine near idle.

Ground speed is achieved by transmission gear selection and not by the engine operating speed. The operator may be required to experiment with several gear range combinations to determine the best gear and range which provides the most ideal performance from the implement and most efficient tractor operation. As the severity of cutting conditions increase, the ground speed should be decreased. OPS-B- 0009_SBR



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 300 feet of mower. (SGM-02)



Mow at the speed that you can safely operate and control the tractor and mower. The correct mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 2 to 5 mph(3-8 kph). 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-07)

7.3 Mower Operation

The rotating parts in this machine have been designed and tested for rugged use. However, they could fail upon impact with heavy solid objects-such as steel guard rails, concrete abutments,etc., causing them to be thrown at a very high velocity. Never allow cutter head to contact such objects. Inspecting the cutting area for such objects and removing them prior to mowing can help eliminate these potential hazards.

Once on location, lower the mower deck slightly above the material to be cut, so the mower does not have to start under a load. With the tractor at an idle, engage mower. Bring tractor R.P.M. up to 1900-2200 R.P.M. and **slowly** lower deck to ground level.



OPERATION

A flail mower deck should be carried so that the part of the deck weight is carried by the boom and part carried by the ground roller, when moving on the ground. When the flail mower is carried this way, the ground roller follows the contour of the ground more easily during mowing operations.

The rotary mower deck should always be carried rather than dragged on the skid shoes when mowing on the ground. Dragging the rotary mower deck increases the side loads on the boom, decreases the horsepower available to the cutter head, and reduces the ability of the accumulator to carry part of the weight of the boom during mowing operations.



WARNING When rotating parts are in motion, serious injury may occur if caution is not used or danger is not recognized. Never allow bystanders within **300 feet** of the machine when in operation. Extreme care should be taken when operating near loose objects—such as gravel, rocks, and debris. These conditions should be avoided.

7.4 50” and 60” Boom Rotary Brush Mowers

The 50” and 60” boom rotary brush mower was designed for cutting brush and foliage up to 6 inches in diameter or multiple branches that have a total cross section area equivalent to one 6 inch branch.

During mower operation, the hand throttle must be used to maintain engine speed at 1900-2200 R.P.M. This prevents radical changes in mower spindle speed, reducing the possibility of cutter assembly damage.

The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom. Do not force the cutting head into heavy branches or stumps. Damage to the unit may result.



CAUTION When using the rotary cutting head for trimming trees and shrubs, let the mower saw into them. Do not lower the mower head down directly into a tree or stump. The mower blades are designed to cut with the end, and misuse can cause damage to the blade and a hazardous situation for the operator.



CAUTION Powering the boom down, forcing mower deck onto ground may damage mower deck and its attachment to the boom, creating a potentially hazardous situation.

To ensure a clean cut, engine speed should be maintained at approximately 1900-2200 R.P.M. If the tractor slows to less than 1800 R.P.M., shift to the next lower gear. **DO NOT** ride the clutch, this will cause premature clutch failure. **The engine should not be operated at any time at more than 2400 R.P.M. on the tractor tachometer.**

For cutting brush it is usually best to stop the tractor and swivel the boom and mower into foliage. The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom.



CAUTION **DO NOT** use excessive force when positioning cutting head into heavy branches or stumps. Damage to the unit may result. It is best to let the cutter head “eat away” slowly at heavy cutting jobs.



CAUTION If foliage falls on top of mower deck causing tractor to become unstable, move the boom “Forward” and “Out” to relieve tipping of the tractor. Lower mower deck to ground and shut down unit. After all motion stops, remove foliage from mower deck.

The mower will operate more efficiently in tougher conditions and with less power if the knives are kept sharp. If the mower begins to vibrate, stop the tractor, check for wire wrapped in the spindle or damaged knives. When replacing knives, replace all knives with new knives to ensure proper balance so the mower will not vibrate. Severe vibration will result, if knives with unequal wear are used.

Begin a pass at the top side of the trees and work down with each consecutive pass. When cutting trees and shrubs, use a lower speed to allow the knives time to cut as well as mulch the foliage.



WARNING If bystanders approach within 300 feet while mower is in operation turn mower switch “OFF” immediately! After shutdown, never leave the tractor or allow bystanders to approach within **300 FEET** of the unit until all motion stops completely.

If cutter shaft jams and stops, turn mower switch to “OFF”, and swivel boom “AFT”. Normally this action will clear the cutter head. If not, roll mower deck until adjacent to the secondary boom, then lower boom to rest mower deck on ground. Shut off the tractor, set parking break, allow all motion to cease. At that point it is safe to leave the tractor and clear the cutter heads manually.

Begin each pass at the top side of the trees and work down with each consecutive pass. Use a low speed to allow the cutting blades time to mulch as well as cut the foliage. When the initial pass has been made,

OPERATION

OPERATION

disengage the mower, and return boom to a safe travel position. Return to starting point and make next pass, etc.

After the first day of operation, all bolts should be checked and tightened securely. This should be done periodically to ensure the bolts do not become loose and cause damage to the tractor or mower, or injury to the operator.

When cutting trees and brush approach material to be cut with the head perpendicular to material. The cutting edge of the blades should be the only elements in contact with material. The blade bar should not contact with material. The mower head and blades should be moved perpendicularly into the material rather lowering the mower head on top of material. If the blade bar edges are gouged or rounded from wear, the mower head is being used incorrectly in an abusive manner. The blade bar is not intended to cut material or to be a wear item like the blades. Do Not allow the blades or blade bar to contact the ground, rocks or solid objects. Contact with the ground can result in rocks and solid objects being thrown out from under the mower head which can cause serious injuries to the operator and bystanders. This type of operation can lead to bent or broken blade bars, broken blade bolts and broken blade bar assembly bolts which can be dangerous to the operator and bystanders.

(OPS-R-220)

7.5 60" Boom Rotary Grass Mower

The 60" boom rotary grass mower was designed for cutting grass only. The cutter speed must be maintained for proper cutting. To insure that the cutter is rotating at maximum speed, run tractor at full throttle during mowing operations. If cutter assembly slows to the point that the knives are folding back, move the mower head away from the foliage and allow the cutter shaft to regain full speed.

During mower operation, the hand throttle must be used to maintain engine speed at 1900-2200 R.P.M. This prevents radical changes in mower spindles speed, reducing the possibility of cutter assembly damage.

The horizontal positioning action of the boom is designed to position the cutting head and provide a limited pressure relief when excessive pressure is applied to the boom. Do not force the cutting head into heavy grass. Damage to the unit may result.

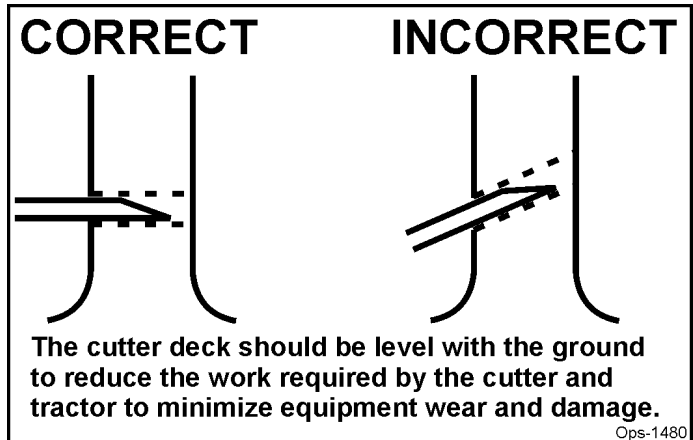


When using the rotary cutting head for cutting heavy grass, let the mower saw into it. Do not lower the mower head down directly into the heavy grass. The mower blades are designed to cut with the end, and misuse can cause damage to the blades and a hazardous situation for the operator.



Powering the boom down, forcing mower deck onto ground may damage mower deck and it's attachment to the boom, creating a potentially hazardous situation.

To ensure a clean cut, engine speed should be maintained at approximately 1900-2200 R.P.M. If the tractor slows to less than 1800 R.P.M., shift to the next lower gear. **DO NOT** ride the clutch, this will cause premature clutch failure. **The engine should not be operated at any time at more than 2400 R.P.M. on the tractor tachometer.**



OPERATION

7.6 50" Boom Flail

The 50" boom flail mower was designed for cutting brush and foliage up to 2 inches in diameter or multiple branches that have a total cross section area equivalent to one 2 inch branch. Cutting multiple limbs at the same time may overload the mower causing it to slow down or stall completely. Regardless of the size of material being cut, the cutter shaft speed must be maintained. To ensure that the cutter shaft is running at maximum speed, run the tractor at full throttle during mowing operations. If the cutter shaft slows to the point that the knives are folding back, move the mower head away from the foliage and allow the cutter shaft to regain full speed.



WARNING

Operating the mower in a manner that allows the knives to continually fold back or allowing knife lugs to contact foliage will cause permanent damage to the cutter shaft drum, knives, and knife attachment parts.

WARNING

The 50" boom flail cutter shaft is designed for standard rotation (same rotation as the tractor wheels during forward travel). **Never operate the cutter shaft in reverse rotation.** Operating this mower in reverse rotation may cause objects to be thrown out the front of the mower head.

WARNING

The 50" boom flail equipped with free swinging brush knives is intended for brush cutting only. Cutting grass is not recommended.

WARNING

Do not allow knives to cut down to the ground. Position ground roller to maintain knife arc at a minimum of 2 inches above the ground. Knife contact or lug contact with ground will cause permanent damage to cutter shaft, knives, and knife attachment parts.

7.7 63" Boom Flail

The 63" boom flail mower was designed for cutting grass. The cutter shaft speed must be maintained for proper cutting. To insure that the cutter shaft is rotating at maximum speed, run tractor at full throttle during mowing operations. If cutter shaft slows to the point that the knives are folding back against the cutter shaft, move the mower head away from the foliage and allow the cutter shaft to regain full speed.



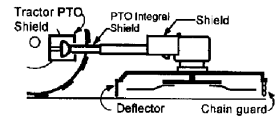
DANGER

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)

OPERATION



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)



OPERATION

7.8 Saber Flail

The Saber flail mower was designed for cutting brush and foliage up to 4 inches in diameter or multiple branches that have a total cross section area equivalent to one 4 inch branch. Cutting multiple limbs at the same time may overload the mower causing it to slow down or stall completely. Regardless of the size of material being cut, the cutter shaft speed must be maintained. To ensure that the cutter shaft slows to the point that the knives are folding back against the cutter shaft move the mower head away from the foliage and allow the cutter shaft to regain full speed.



Operating the mower in a manner that allows the cutting knives to contact the drum will cause permanent damage to the cutter shaft drum, knives, and knife attachments.



The Saber 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.

7.9 Saber Rotary

The Saber Rotary mower was designed for cutting brush and foliage up to 8 inches in diameter or multiple branches that have a total cross section area equivalent to one 8 inch branch. Cutting multiple limbs at the same time may overload the mower causing it to slow down or stall completely. Regardless of the size of material being cut, the speed of the cutter head must be maintained. To ensure that the cutter head is running at maximum speed, run the tractor at full throttle during mowing operations. If the cutter head slows to the point that the knives are folding back, move the mower head away from the foliage and allow the cutter head to regain full speed.



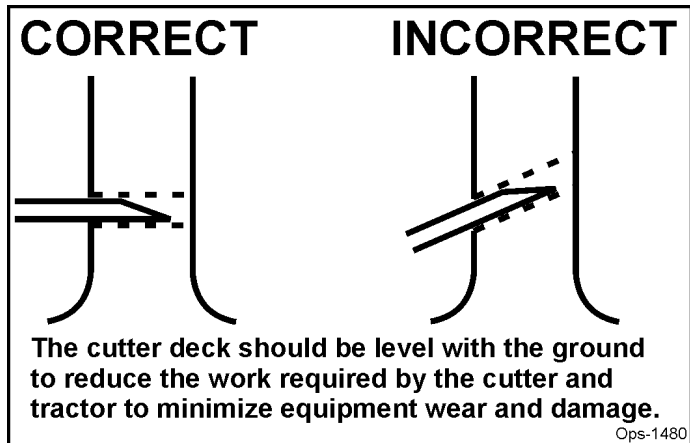
Operating the mower in a manner that allows the cutting knives to continually fold back will cause permanent damage to the knives, rotary disk, and spindle assembly.



The Saber Rotary cutter head is designed for clockwise rotation (clockwise as seen from the top of the cutter head). Never operate the cutter head in the counterclockwise rotation. Operating this mower in counterclockwise rotation may cause objects to be thrown towards the tractor.

OPERATION

When cutting trees and brush approach material to be cut with the head perpendicular to material. The cutting edge of the blades should be the only elements in contact with material. The blade bar should not contact with material. The mower head and blades should be moved perpendicularly into the material rather lowering the mower head on top of material. If the blade bar edges are gouged or rounded from wear, the mower head is being used incorrectly in an abusive manner. The blade bar is not intended to cut material or to be a wear item like the blades. Do Not allow the blades or blade bar to contact the ground, rocks or solid objects. Contact with the ground can result in rocks and solid objects being thrown out from under the mower head which can cause serious injuries to the operator and bystanders. This type of operation can lead to bent or broken blade bars, broken blade bolts and broken blade bar assembly bolts which can be dangerous to the operator and bystanders.



OPERATION

7.10 Shutting Down the Attached Head- For Standard Equipment

To shut down attached mower head, first bring the tractor to a complete stop. Decrease engine RPM to idle then disengage cutterhead. The mower head will come to a complete stop within a suitable amount of time. Do not engage or disengage the cutterheads at a high RPM unless there is an emergency situation.



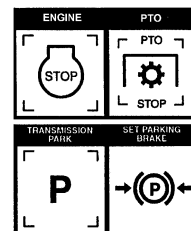
Park the tractor on a level surface, place the transmission in park or neutral and apply the parking brake, shut down the engine, remove the key, and wait for all motion to come to a complete stop before exiting the tractor. OPS-B- 0011_E



OPERATION



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



Never allow children 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)



Perform service, repairs and lubrication according to the maintenance section. Ensure the unit is properly lubricated as specified in the lubrication schedule and all bolts and nuts are properly torqued. Failure to properly service, repair and maintain this Implement in good operating condition could cause component failure and possible serious injury or even death. (SG-35)

OPERATION

8. TRANSPORTING THE TRACTOR AND IMPLEMENT

Inherent hazards of operating the tractor and implement and the possibility of accidents are not left behind when you finish working in an area. Therefore, the operator must employ good judgement and safe operation practices when transporting the tractor and implement between locations. By using good judgement and following safe transport procedures, the possibility of accidents while moving between locations can be substantially minimized. *OPS-U-0017*

8.1 Transporting under the units own power

When transporting between job sites, the following procedure should be followed: Shut off the power to the cutting head and allow all motion to come to a complete stop. Roll the mower deck all the way back until it is adjacent to the secondary boom. Retract the cylinder on the main boom all the way in so that the boom is in the upward position. Next, extend the secondary cylinder so that the secondary boom is in a downward position. Run the swivel cylinder until the boom and mower deck is directly in front of the operator. Lastly, place the "Travel Lock" switch on the main control switch box to the "ON" position. The unit is now ready for self transportation

8.2 Transporting on Public Roadways

Extreme caution should be used when transporting the tractor and mower on public roadways. The tractor must be equipped with all required safety warning features including a SMV emblem and flashing warning lights to alert drivers of the tractor's presence. Remember that roadways are primarily designed for automotive drivers and most drivers will not be looking for you, therefore, you must look out for them. Check your sideview mirrors frequently and remember that vehicles will approach quickly because of the tractor's slower speed. Be extremely cautious when the piece of equipment that you are towing, is wider than the tractor tire width and/or extends beyond your lane of the road.

OPERATION

The SMV (Slow-Moving Vehicle) emblem is universal symbol used to alert drivers of the presence of equipment traveling on roadways at a slow speed. SMV signs are a triangular bright orange with reflective red trim for both easy day and night visibility. Make sure the SMV sign is clean and visible from the rear of the unit before transporting the tractor and implement on a public roadway. Replace the SMV emblem if faded, damaged, or no longer reflective. *OPS-U-0020*



Make sure that all tractor flashing warning lights, headlights, and brake/taillights are functioning properly before proceeding onto public roads. While newer model tractors have plenty of lighting to provide warning signals and operating lighting, most older models were only equipped with operating lights. Consult an authorized tractor dealer for lighting kits and modifications available to upgrade the lighting on older tractor models. *OPS-B-0015*



When operating on public roads, have consideration for other road users. Pull to the side of the road occasionally to allow all following traffic to pass. Do not exceed the legal speed limit set in your state or municipality for agricultural tractors. Always stay alert when transporting the tractor and mower on public roads. Especially in busy cities, the boom extends to right farther than the tractor's width, so be careful there are no bystanders, poles, large obstructions or any vehicles that may be in path of the mower head or boom. Use caution and reduce speed if other vehicles or pedestrians are in the area. *OPS-B-0016*



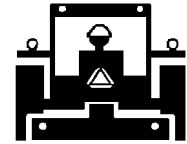
Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death. (SG-10)



OPERATION



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)



Reduce speed before turning or applying the brakes. Ensure that both brake pedals are locked together when operating on public roads. OPS-U- 0023



OPERATION

8.3 Transporting Unit by Flatbed Trailer

Park flatbed on level area. Drive tractor onto center of flatbed to avoid uneven distribution of weight and staying within local width restrictions. If boom is over local height restrictions, you will need to extend booms outward enough to clear front of tractor when boom is pivoted forward. Pivot mower deck into a horizontal position, and lower the boom until deck is slightly above trailer bed. Remove cylinder pin from outer end of the boom swivel cylinder.



If trailer is not perfectly level, the boom will tend to swing towards the lower side. Have other personnel ready to control its swinging motion when cylinder pin is removed.

Retract swivel cylinder and secure to main frame. Pivot boom forward to the center of flat bed. Lower deck onto the trailer bed, and shut off the tractor. The tractor and the mower head should now be chained down securely to the trailer bed.



If any part of this operating section, or any other section of this manual is not completely understood, contact your Tiger dealer or the address on the cover of this manual for assistance!

OPERATION

8.4 Hauling the Tractor and Implement

Before transporting a loaded tractor and implement, measure the height and width dimensions and gross weight of the complete loaded unit. Ensure that the load will be in compliance with the legal limits set for the areas that will be traveled through. *OPS-U- 0024*



Use adequately sized and rated trailers and equipment to transport the tractor and implement. Consult an authorized dealer to determine the proper equipment required. Using adequately sized chains, heavy duty straps, cables and/or binders, securely tie down both the front and rear of the tractor utilizing the proper tie down locations as specified by the tractor manufacturer. *OPS-U- 0025*



▲ 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)



OPERATION

OPERATION

Arrange the chains so that when tightened, the chains are pulling downward and against themselves. Carefully tighten the securing chains or other fasteners using boomers or binders to apply maximum tension. Use extreme care when attaching and removing the securing devices as the extreme tension involved when released has the potential to inflict serious injury.

While hauling the tractor and implement, make occasional stops to check that the tractor and implement have not moved or shifted and that the securing chains have maintained tension. If during transport a hard braking, sharp turning, or swerving action was performed, stop at the next safe location to inspect the security of the load. OPS-U- 0026



9. TRACTOR, BOOM, AND ATTACHED HEAD STORAGE

Properly preparing and storing the unit at the end of the season is critical to maintaining its appearance and to help ensure years of dependable service. The following are suggested storage procedures:

- Thoroughly clean all debris from boom and head to prevent damage from rotting grass and standing water.
- Lubricate all grease points and fill oil levels according to the maintenance lubrication schedule.
- Tighten all bolts to the proper torque. Ensure all pins and other hardware are in place.
- Check the boom arm and head for worn and damaged parts. Perform repairs and make replacements so that the mower will be ready for use at the start of the next season.
- Store the unit in a clean and dry location.
- Use spray touch-up enamel where necessary on bare metal surfaces to prevent rust and to maintain the appearance of the mower.

OPS-B- 0012_E



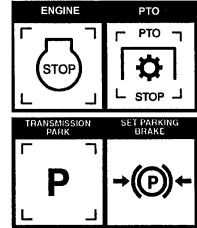
▲ DANGER

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)

OPERATION

⚠ DANGER

BEFORE leaving the tractor seat, always set the parking 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)



⚠ WARNING

Perform service, repairs and lubrication according to the maintenance section. Ensure the unit is properly lubricated as specified in the lubrication schedule and all bolts and nuts are properly torqued. Failure to properly service, repair and maintain this Implement in good operating condition could cause component failure and possible serious injury or even death. (SG-35)

OPERATION

OPERATION

OPERATION

TV Saber

Operation Section 3-42

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 luke warm 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 operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard. Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves, safety glasses and use Cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



Break in Period

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

MAINTENANCE

MAINTENANCE

whenever a wheel is removed and reinstalled.



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



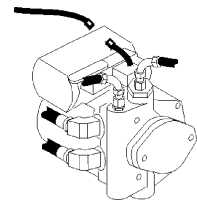
Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)



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)



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)



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.

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 drive shaft end play |
| 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 maintenance precautions |

TV Saber

Maintenance Section 4-3

MAINTENANCE

MAINTENANCE

| ITEM | SERVICE | COMMENTS |
|---|--------------|--|
| Knives | Check | Inspect for missing or damaged knives, change as needed or sharpen as needed. |
| Spindle mounting bolts (spindle to deck) | Check | 3/4" x 2" torque or 3/4" x 2-1/2" bolts to 331ft. lbs. |
| Knife mounting bolts (knife to disk or blade bar) | Check | Pre-lubricate threads, then torque: 1-1/8" bolts to 800 ft. lbs. 1-3/4" bolts to 2,000 ft. lbs. |
| Disk or blade bar mntg bolts (disk or blade bar to spindle) | Check | Retorque bolts 3/4" bolts to 500 dry or 330 oiled ft. lbs. 5/8" bolts to 204 dry or 184 oiled ft. lbs. |
| 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) Bearing Flange and Shaft Coupler | Lubricate | Grease as instructed in detailed maintenance section |
| Cutter Shaft | Lubricate | Grease as instructed in detailed Maintenance Section |
| Ground Roller Bearings | Lubricate | Grease as instructed in detailed Maintenance Section |

WEEKLY OR EVERY 40 HOURS

| ITEM | SERVICE | COMMENTS |
|-----------------------|-----------|--|
| Rotary Spindle | Lubricate | Grease as instructed in detailed Maintenance Section |

MAINTENANCE

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 hrs. yearly or if indicated by the restriction indicator. |

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 480/85R34 16.9-38 | Max P.S.I. 26 29 | |

YEARLY OR EVERY 500 HOURS

| ITEM | SERVICE | COMMENTS |
|--|---------|----------|
| Spindle Grease | Change | |
| Hyd. Tank Fluid | Change | |
| In Tank Hyd. Fluid Filter (10 micron filter) | Change | |
| Hyd. Tank Breather | Change | |

MAINTENANCE

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 specifications 2a. Check for damage blades, disc or cutter shaft. 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 3. Faulty relief valve 4. Kinked or blocked 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. 4. Clean or replace lines 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 is not 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 for contaminates and scratches. Clean parts or replace if scratched. |

MAINTENANCE

MAINTENANCE

Motor runs but will not cut.

1. Belts
2. Tensioner

1. Inspect belts and pulleys. Replace belts and repair as needed.
2. Adjust tensioner nut flat washer washer is flush with top of guide.

Mower turns slowly or not at all.

1. Contaminants restricting spool movement in valve body.
2. Suction lines obstructed
3. Low oil level

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

1. Excessive wear on internal parts

1. Disassemble and repair.

Motor will not work

1. Excessive wear on internal parts

1. Disassemble and repair.

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

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

MAINTENANCE

LUBRICATION RECOMMENDATIONS





| Description | Application | General Specification | Recommended Mobil Lubricant |
|---|-------------|--|---|
| Tractor Hydraulics | Reservoir | JD-20C | Mobilfluid® 424 |
| Mower Hydraulics Cold Temperatures 0° F Start-Up | Reservoir | ISO 46 Anti-Wear-Low Temp | Mobil DTE® 15M |
| Normal Temperatures 15° F Start-Up | | ISO 46 Anti-Wear | Nuto®H46, Mobil DTE®25 |
| Cutter Shaft & Ground Roller Shaft(Flail) | Grease Gun | Lithium-Complex NLGI 2-ISO 320 | Mobil Delvac® Xtreme Grease Mobilgrease CM-S |
| Drive Shaft Coupler (Flail and Rotary) | Grease Gun | Lithium-Complex NLGI 2-ISO 320 | Mobil Delvac® Xtreme Grease Mobilgrease CM-S |
| Drive Shaft Yoke, U-joint & Stub Shaft | Grease Gun | Lithium-Complex NLGI 2-ISO 320 | Mobil Delvac® Xtreme Grease Mobilgrease CM-S |
| Boom Swivel Boom Cylinder Pivots (Rotary & Flail Boom) | Grease Gun | Lithium Complex NLGI 2-ISO 320 | Mobil Delvac® Xtreme Grease Mobilgrease CM-S |
| Deck Boom Pivot & Deck Stop Adjustment (Rotary & Flail) | Grease Gun | Lithium Complex NLGI 2-ISO 320 | Mobil Delvac® Xtreme Grease Mobilgrease CM-S |
| Deck Spindle(Rotary) | Grease Gun | Lithium Complex NLGI 2-ISO 220, PAO Synthetic Grease | Mobilith SHC 220, Tiger Part #06540000 |

MAINTENANCE

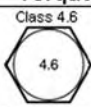
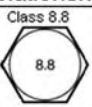
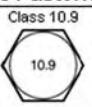
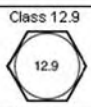
MAINTENANCE

MAINTENANCE

TORQUE SPECIFICATIONS

| Nominal Dia. (in.) | threads per inch |  Grade 2 | | |  Grade 5 | | |  Grade 8 | | |  Grade 9 | | |
|-------------------------------------|------------------|---|------------------------|-----------------------|---|------------------------|-----------------------|---|------------------------|-----------------------|---|------------------------|-----------------------|
| | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | | | Tightening Torque | | |
| | | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain 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 | 126 | 150 | 159 | 180 | 212 | 186 | 211 | 248 |
| 3/4 | 10 | 129 | 155 | 172 | 200 | 227 | 267 | 282 | 320 | 376 | 331 | 375 | 441 |
| 7/8 | 9 | 125 | 150 | 167 | 322 | 365 | 429 | 455 | 515 | 606 | 533 | 604 | 710 |
| 1 | 8 | 187 | 225 | 250 | 483 | 547 | 644 | 681 | 772 | 909 | 799 | 905 | 1065 |
| 1 1/8 | 7 | 266 | 319 | 354 | 596 | 675 | 794 | 836 | 966 | 1132 | 1000 | 1132 | 1330 |
| 1 1/4 | 7 | 375 | 450 | 500 | 840 | 952 | 1121 | 1173 | 1363 | 1545 | 1363 | 1545 | 1810 |
| 1 1/2 | 6 | 652 | 783 | 869 | 1462 | 1657 | 1950 | 2037 | 2371 | 2688 | 2371 | 2688 | 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 | 933 | 1077 | 1244 | 1100 | 1243 | 1483 |
| 1 1/4 | 12 | 415 | 498 | 553 | 930 | 1055 | 1241 | 1294 | 1509 | 1710 | 1500 | 1700 | 2038 |
| 1 1/2 | 12 | 734 | 880 | 978 | 1645 | 1865 | 2194 | 2288 | 2668 | 3024 | 2668 | 3024 | 3544 |

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 K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain K = 0.20 | Lubed K = 0.15 | Dry Plated K = 0.17 | Dry plain 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 | 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

*These are general specifications. Check your tractor operators or service manual for exact specifications.

MAINTENANCE

POLYCARBONATE CARE & MAINTENANCE

The proprietary 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 are 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

RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

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

The reservoir should be filled to the middle of the sight glass on the side of the tank. Do not over-fill. The reservoir has been over-filled when oil completely covers sight glass. If tank has too much oil, the excess may be expelled through the pressurized breather.



MAINTENANCE

DETAILED MAINTENANCE

REPLACEING 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.



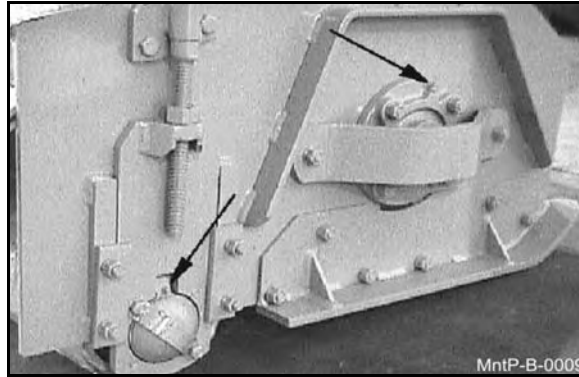
MAINTENANCE

MAINTENANCE

GREASING CUTTER SHAFT-FLAIL MOWERS

Locate grease zerks on each end of cutter shaft(s), these are located on the bearing cover. Normal conditions require one or two pump in each bearing, using Lithium-Complex Extreme Pressure grease confirming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at **8 hour intervals**.

CAUTION: Over greasing may cause premature seal failure.



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 pump 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

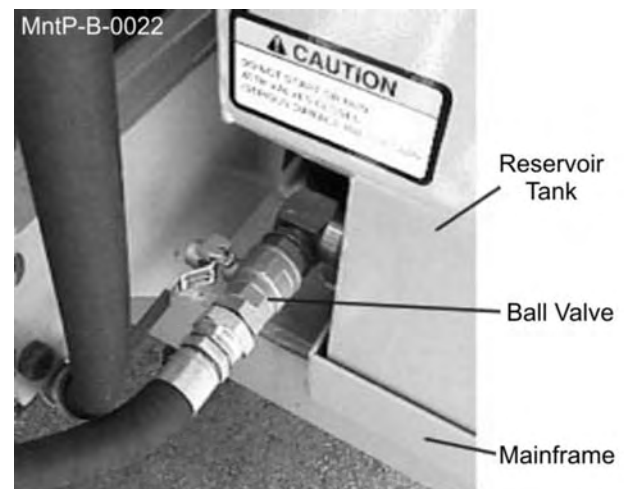
ADJUSTING/CHECKING BELT TENSION

To adjust belt tension or replace belts on flail cutter head, remove four bolts that secure belt to 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!**



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 P.T.O.!** Failure to do so will result in component failure!



MAINTENANCE

MAINTENANCE

TIGHTENING KNIFE BOLTS AND DISK BOLTS:

BOOM ROTARY - After every 8 hours of operation or daily, the Knife Bolts and Disk Bolts should be tightened as follows:

Knife mounting bolts (2ea.) torque to 1070 ft. lbs. dry.

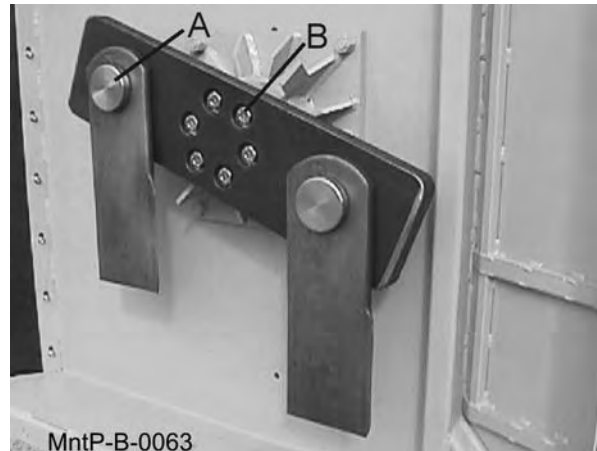
Disk mounting bolts (6ea.) torque to 204 ft. lbs. dry.



BOOM ROTARY

SABER ROTARY - Knife mounting bolts (A): Torque to 2000 ft. lbs., recheck daily

Disk mounting bolts (B): Torque to 330-360 ft. lbs. lubed (Locktite® 271) or 500 ft. lbs. dry (plated bolts), recheck daily



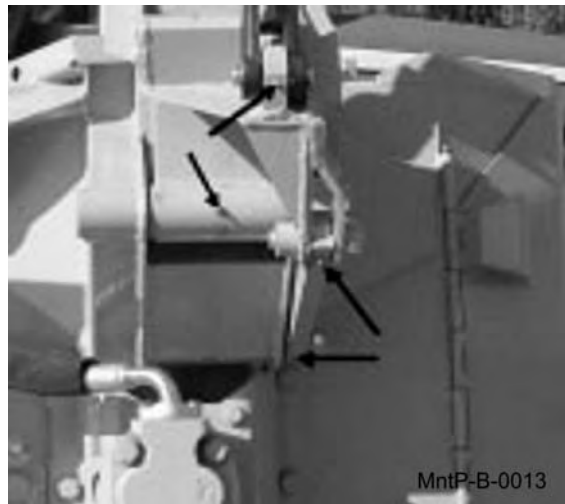
SABER ROTARY

MAINTENANCE

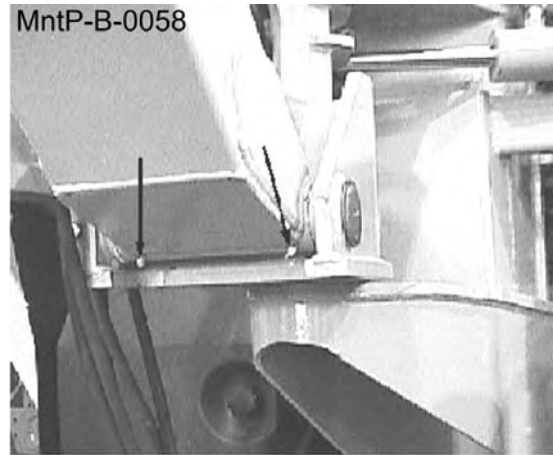
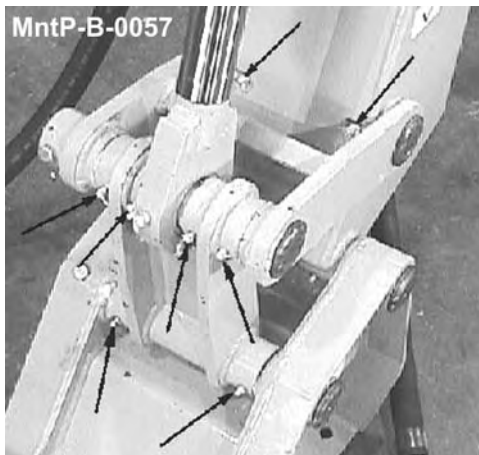
MAINTENANCE

GREASING POINTS ON BOOM AND PIVOT

Locate grease zerks (8) on deck pivot assembly, (2) on the deck end of secondary boom, (2) at main/secondary boom joint, and (2) 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.



BOOM / CHEETAH

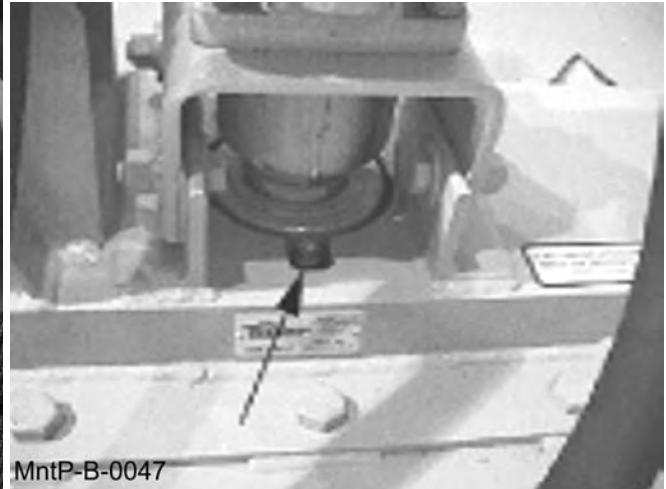


MAINTENANCE

MAINTENANCE

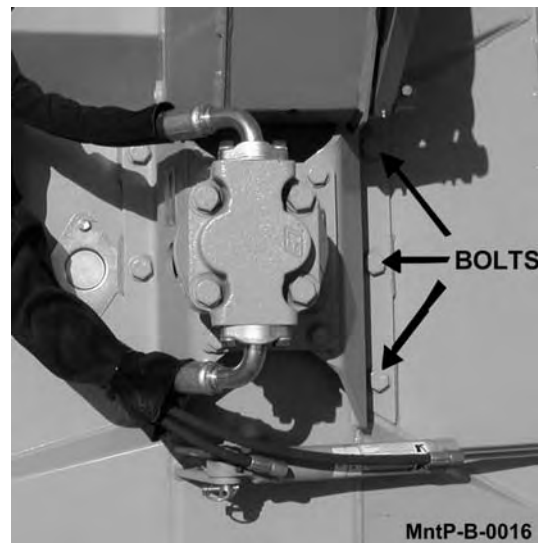
GREASING SPINDLE

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.



TIGHTENING SPINDLE BOLTS

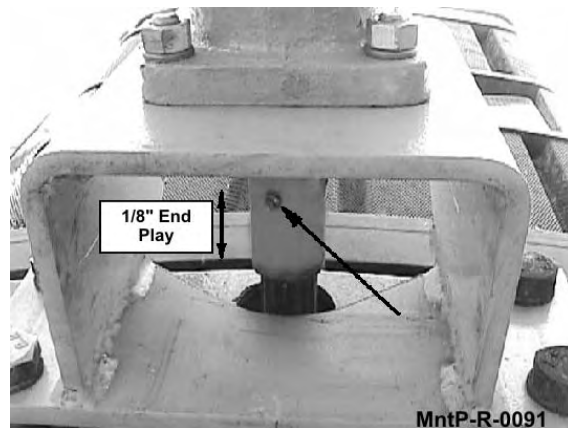
The spindle mounting bolts should be checked and retorqued daily or every 10 hours of service. Torque the (6) bolts shown below to 331 ft. lbs.



MAINTENANCE

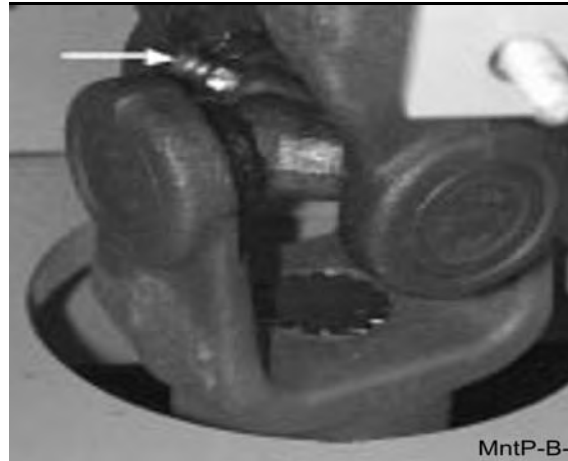
GREASING PUMP DRIVE SHAFT COUPLER

With engine stopped, ensure drive shaft 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 crank shaft adapter. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into coupler until grease begins to protrude from ends. Grease daily or every 8 hours. Do not over grease.



DRIVE SHAFT YOKE, U-JOINT 7STUB 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.



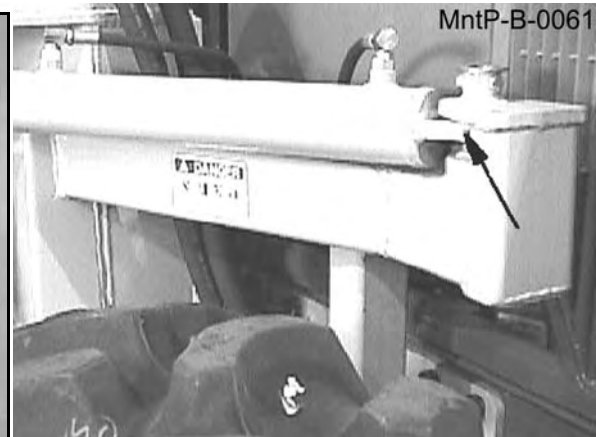
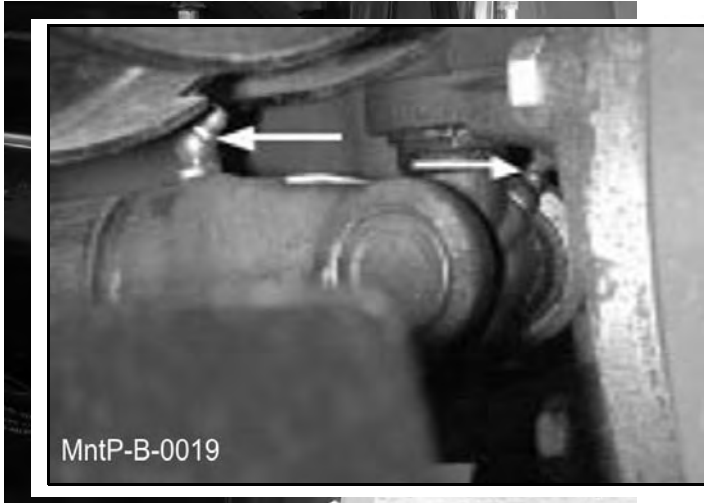
MAINTENANCE

MAINTENANCE

MAINTENANCE

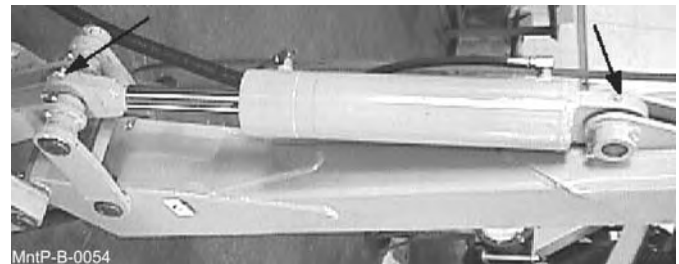
GREASING THE BOOM SWIVEL

Locate the zerks on the main swivel boss (2) (see next page), main boom pivot boss (2) and on both ends of the boom swivel cylinder. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until grease begins to protrude from ends.



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 confirming 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.



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. (MNT-B-0001)



1.

| | |
|---|---|
| WARNING | ADVERTENCIA |
| TO AVOID SERIOUS INJURY AND DEATH FROM THROWN OBJECTS: | PARA EVITAR LESION SERIA O MUERTE POR OBJETOS LANZADOS: |
| <ul style="list-style-type: none">• MAKE CERTAIN blades rotate the correct direction. | <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 around the holes.
3. Lube threads with anti-seize, motor oil or grease. Install bolts through knife and disk from bottom side of disk. 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 1070 DRY OR 800 OILED FT. LBS.

REPLACEMENT OF ROTARY DISK



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 oiled ft. lbs.
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, grease or motor oil. Install bolts through knife and disk from bottom side of disk. Install self locking nuts and torque them to 800 ft. lbs.

MAINTENANCE

Flail Blades Inspection

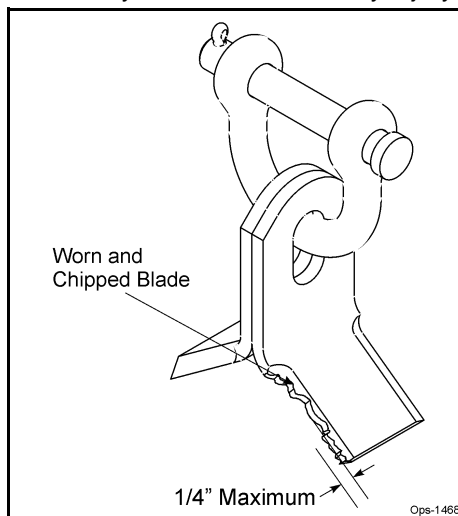


Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

- 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.

Important

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



Never attempt to sharpen blades. OPS-U-0044

MAINTENANCE

MAINTENANCE

Blade Pins and D-Ring Inspection

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

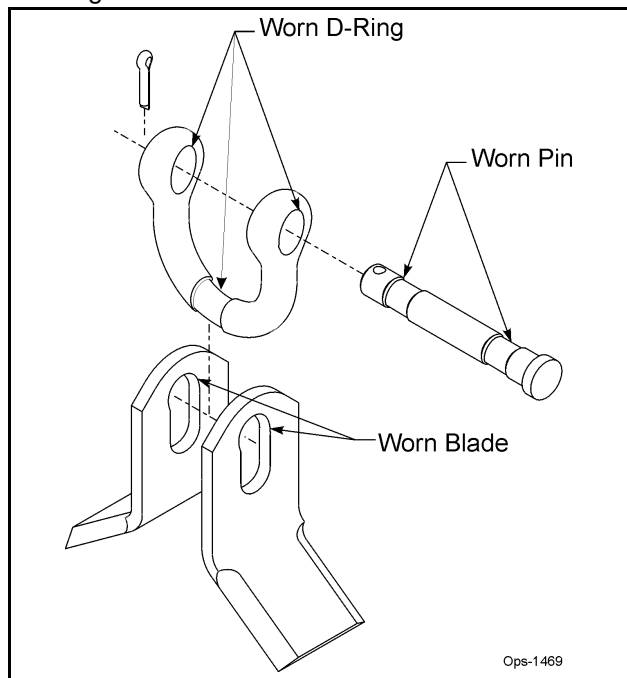


Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

- 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

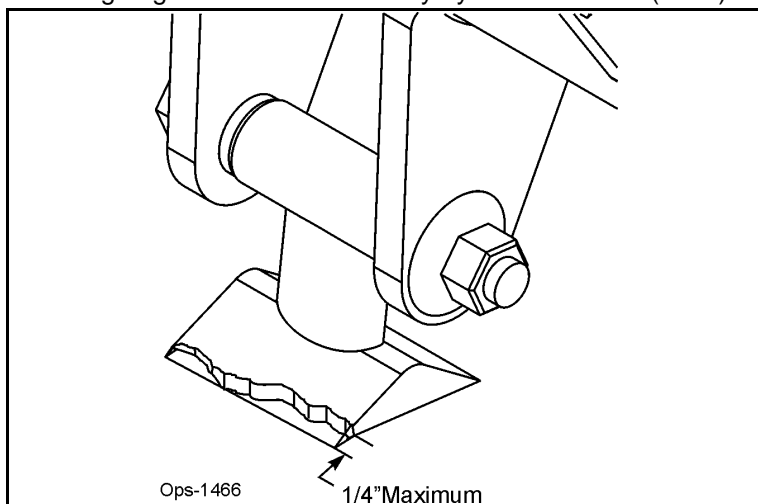
MAINTENANCE

Flail Axe Blades Inspection



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

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



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

Always replace blades in sets

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

Important

Use only genuine Alamo Industrial replacement blades, blade bolts and fasteners. Other blades and bolts may not meet the requirements of Alamo Industrial and fail during operation resulting in 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:

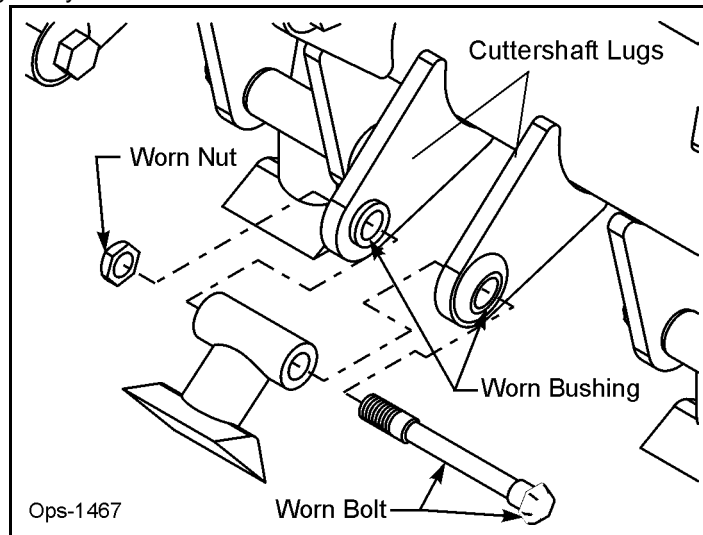


Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

- 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



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 52 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.

MAINTENANCE



Knives should not be welded on for any reason.

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 52 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.

FLAIL AXE KNIFE REPLACEMENT

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 knives should not be welded on for any reason. When replacing knives, replace bushings, bolts and locknuts.

Apply Loctite® "271" or equivalent to threads and install the locking hex nuts so that the flat face of the nut is towards the knife. Torque the hex nut to 159 ft. lbs.



DO NOT re-use the locking hex nuts for mounting the knives. If hex nut becomes 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.

MAINTENANCE

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT



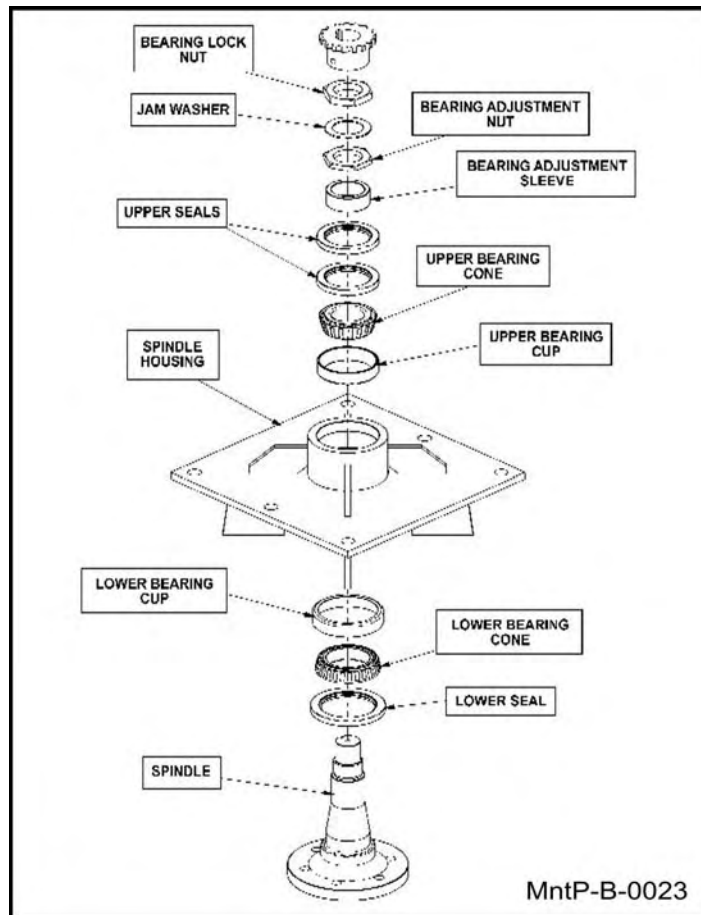
A press **MUST** be used to install bearing cups, bearing cones, and seals. **DO NOT** use a hammer to install races, bearings, or seals. The parts of assembly may be damaged.

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.

THE SPINDLE ASSEMBLY

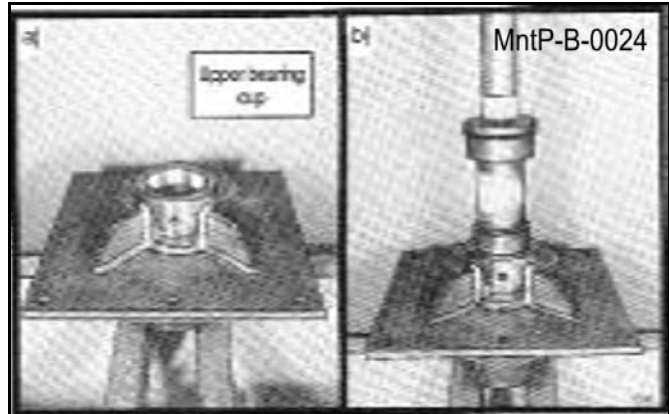
See the diagram below for identification of spindle parts, while servicing.



MAINTENANCE

SWIVEL BEARING INSTALLATION

1. Press upper bearing cup into the spindle housing
2. Turn the spindle housing over and press in the lower bearing cup.
3. Place the lower bearing cone in the bearing cup. Next press the seal into the spindle housing. The inner lip of the seal must be DOWN, towards the bearing, so lubricant is sealed inside the housing.
4. Install the spindle in the housing. Lightly tap the end of the spindle with a soft faced hammer to seat the spindle against the bearing inner race.
5. Turn the spindle housing over (up position) and fill with Tiger Spindle Lubricant (part number 06540000) to the top edge of the upper bearing cup.
6. Support the bottom of the spindle and press the upper bearing cone and bearing adjustment sleeve onto the spindle.

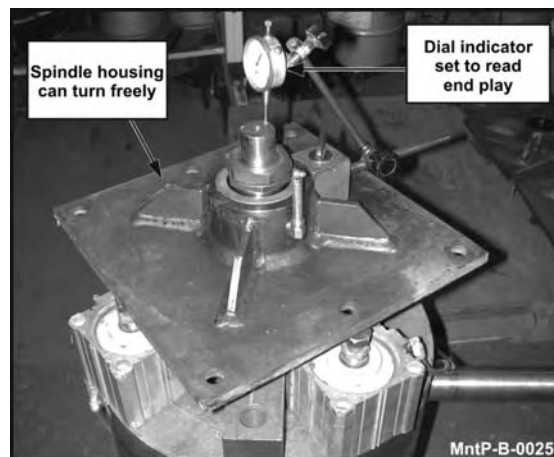


NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.

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 locknut (thin nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.

SWIVEL 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 locknut from loosening.

If the end play is NOT correct, loosen the lock nut and turn the adjustment nut as required and re-tighten the locknut. 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 manufactures recommendations for proper oil type and filtering techniques and requirements to add oil to the system.
17. Clear the area of all persons prior to starting the tractor.
18. Consult the Operator's Manual for instruction 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 and 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. (MNT-B-0002

MAINTENANCE

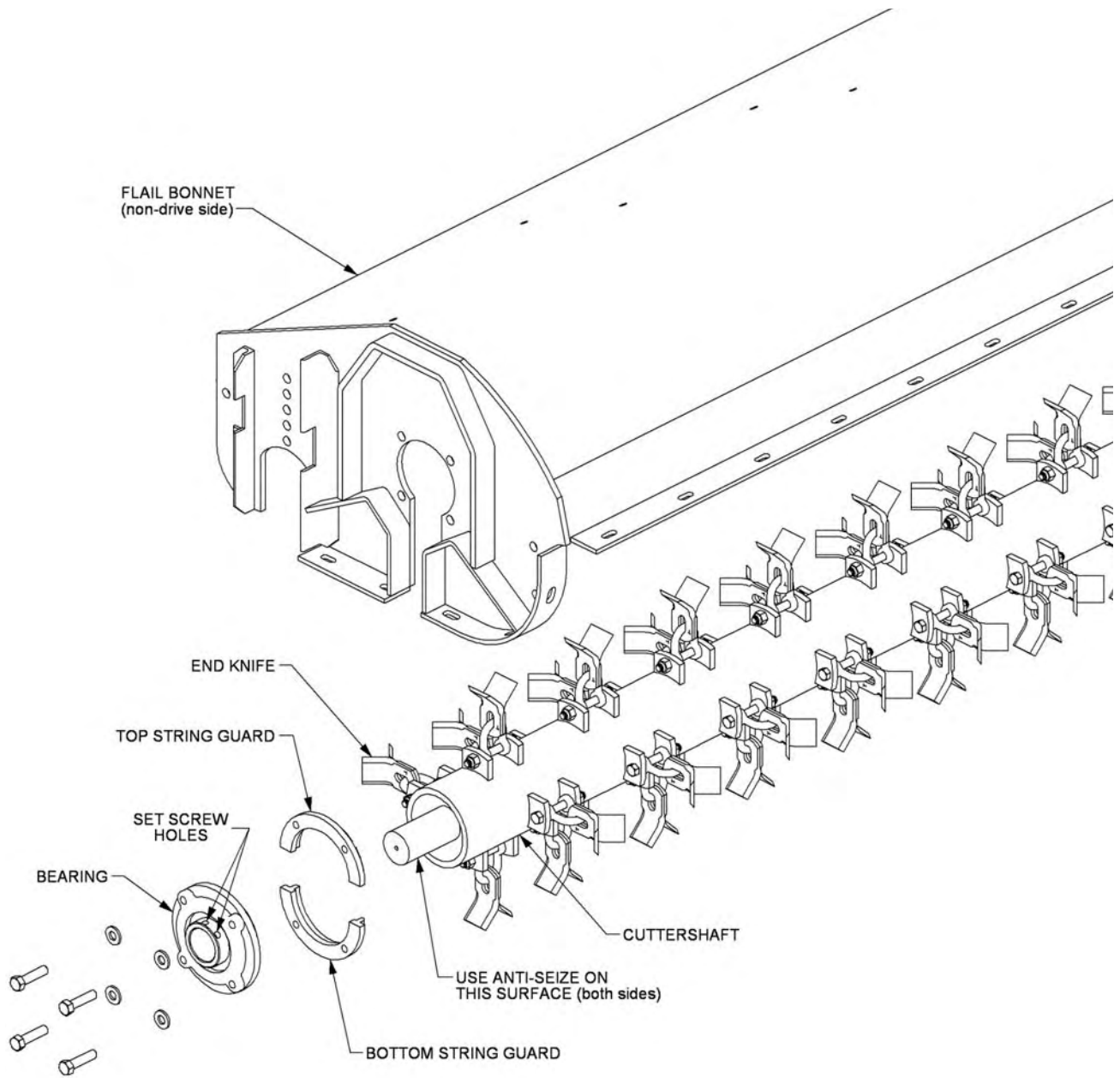
CUTTERSHAFT BEARING REPLACEMENT

1. Remove existing cuttershaft, bearings and string guards.
2. Make sure that the end knives on each end of the cuttershaft are orientated 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 CAREFULL 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

MAINTENANCE

MAINTENANCE



MAINTENANCE

DAILY MAINTENANCE SCHEDULE

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

- _____ Pump Drive Shaft: 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.
- _____ Knife Bolts (SABER 1-3/4"): Check/Torque to 2,000 ft. lb.
- _____ Bolts - Disk/Spindle (SABER 3/4" x 2"): Check/Torque to 331 ft. lb.
- _____ Belts: Check/Tighten/Replace belts as needed.
- _____ Main Frame/Deck: Unless otherwise specified retorqued 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.
- _____ Cutter Shaft 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.

MAINTENANCE

MAINTENANCE

PARTS SECTION

NOTES



PART NAME INDEX

| | |
|---|----|
| RCTVUQTF GT&I 'I W&G | 6 |
| P QVGLU | 7 |
| VTCEVQT'O QWP V'MK | 8 |
| VTCEVQT'O QWP V'MK"/'J [F T C W N E U | : |
| DQO 'O QWP V'MK | 32 |
| UY &EJ "DQZ "CP F "LQ[UV&M'O QWP V | 34 |
| GNGEVTQP &E "RT QRQT VQPC N'NHV"XCNXG | 36 |
| VTCEVQT" TGO QVGU"RNWO D&I | 38 |
| RQN[ECTDQP CVG"UCHGV["UETGGP | 3: |
| Y J GGN"Y GK J V"/UCDGT | 42 |
| 5&"Z "3: &"J [F T C W N E "E[N&F GT"/"5544; | 43 |
| RVQ'DTGCMF QY P "/"45: 7: | 44 |

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.

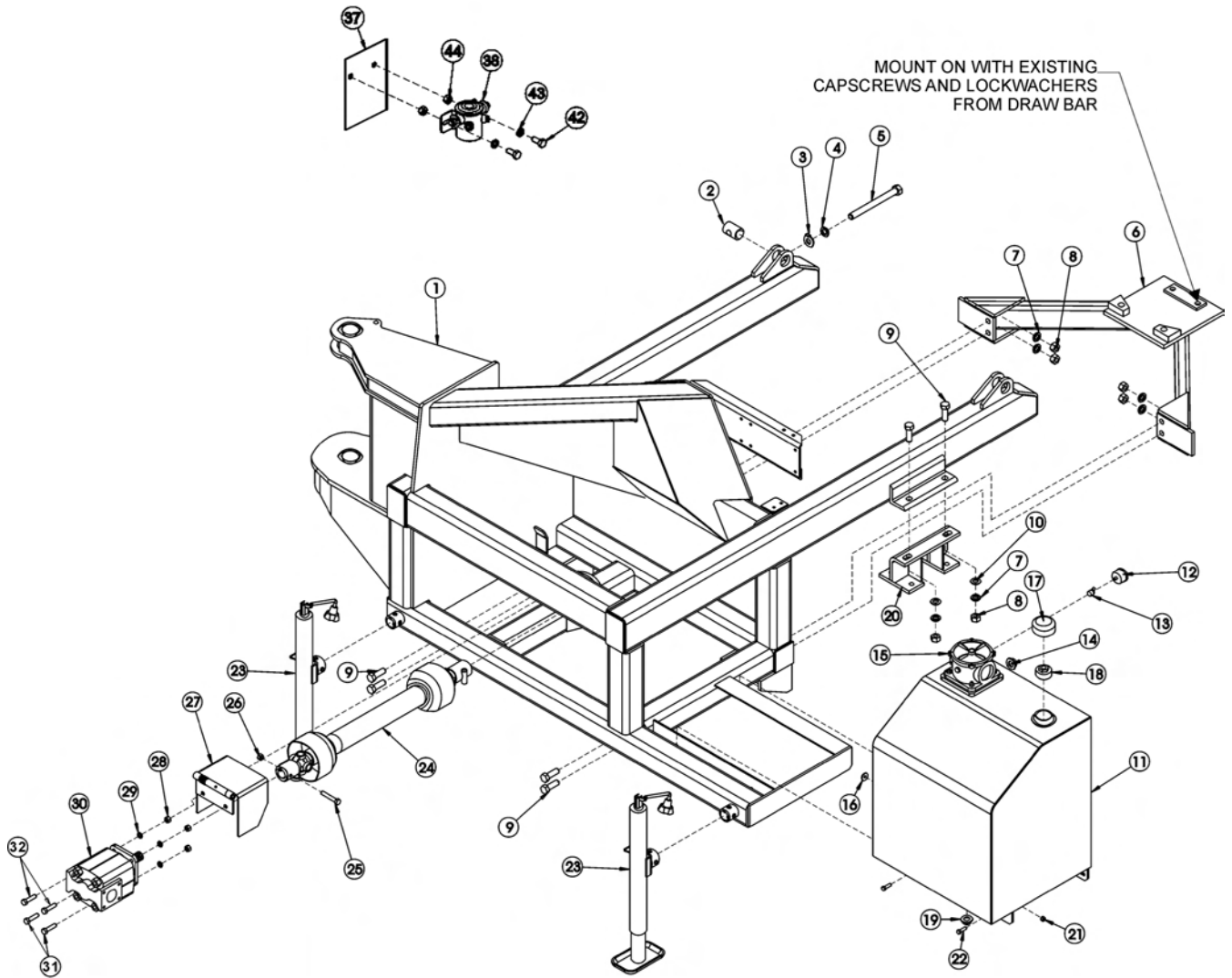
Direct any questions regarding parts to:

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

NOTES

NOTES

TRACTOR MOUNT KIT

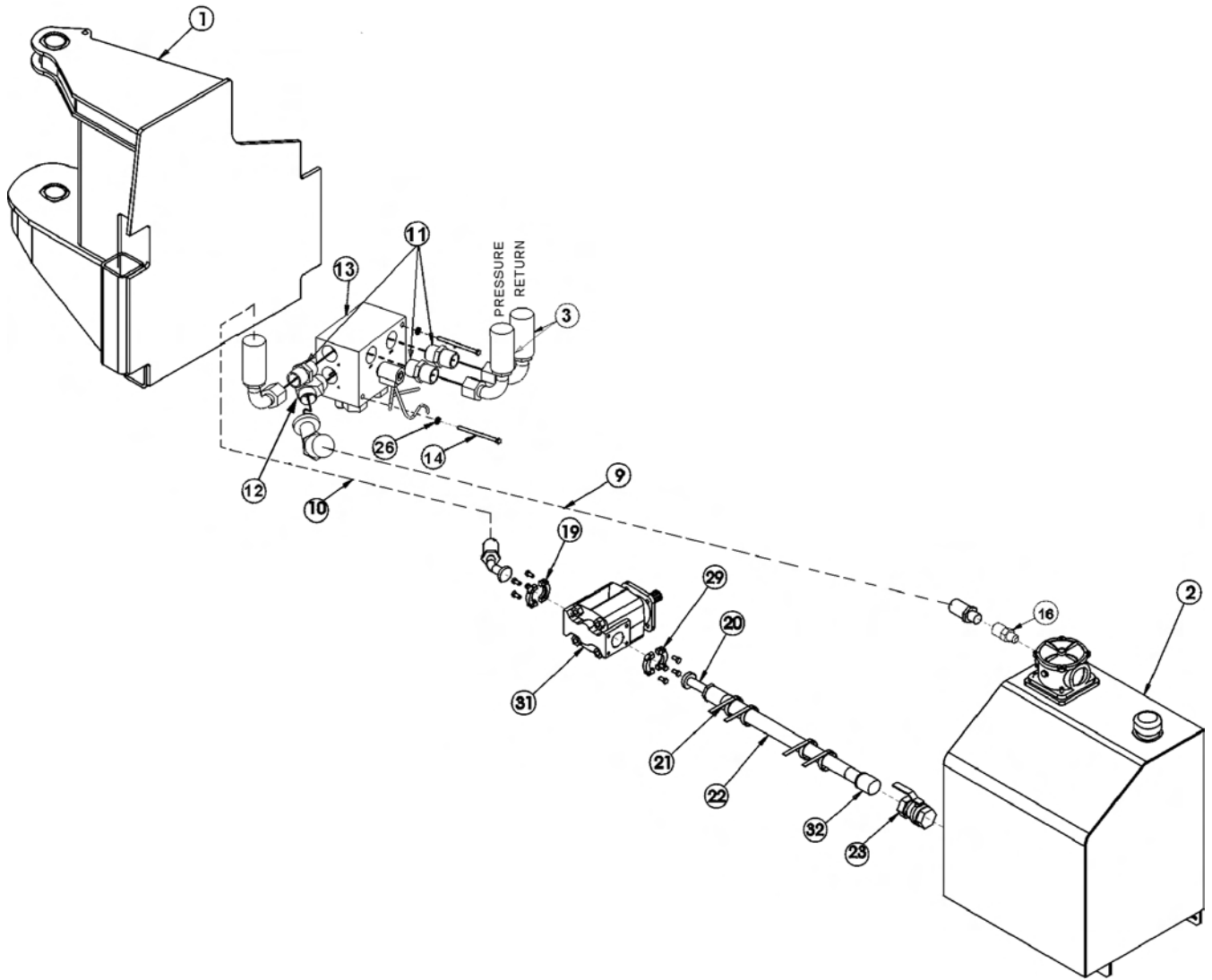


TRACTOR MOUNT KIT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---|
| 1 | 33171 | 1 | MAIN FRAME |
| 2 | F86015937 | 2 | PIVOT,SHAFT |
| 3 | F86020212 | 2 | WASHER |
| 4 | 21994 | 2 | LOCKWASHER,7/8" |
| 5 | 32866 | 2 | CAPSCREW,7/8" X 9",NC |
| 6 | 33214 | 1 | SUPPORT,FRAME |
| 7 | 21993 | 8 | LOCKWASHER,3/4" |
| 8 | 21825 | 8 | HEX NUT,3/4",NC |
| 9 | 21833 | 8 | CAPSCREW,3/4" X 2-1/4",NC |
| 10 | 22021 | 4 | FLATWASHER,3/4" |
| --- | 32973 | 1 | TANK,RESERVOIR,ASSY |
| 11 | 32972 | 1 | TANK,RESERVOIR |
| 12 | 6T0649 | 1 | FILTER GAUGE |
| 13 | TF4887 | 1 | STREET ELBOW |
| 14 | 6T1209 | 2 | SIGHT GLASS |
| 15 | 065005044 | 1 | IN-TANK FILTER ASSY |
| 16 | 6T4197 | 1 | PIPE PLUG,1/8" |
| 17 | 31004 | 1 | PRESSURE CAP |
| 18 | 33700 | 1 | REDUCER BUSHING |
| 19 | 6T4200 | 1 | PIPE PLUG,3/4" |
| 20 | 32854 | 1 | AXLE BRACKET |
| 21 | 21627 | 6 | NYLOCK NUT,3/8",NC |
| 22 | 21631 | 6 | CAPSCREW,3/8" X 1-1/4",NC |
| 23 | RD1035 | 3 | TOP CRANK JACK, (THIRD JACK NOT PICTURED) |
| 24 | 23858 | 1 | PTO DRIVE SHAFT |
| 25 | 27589 | 1 | CAPSCREW,1/2" X 3",NF |
| 26 | 27915 | 1 | HEX NUT,1/2",NF,STOVER |
| 27 | 33337 | 1 | PTO SHIELD |
| 28 | 21725 | 4 | HEXNUT,1/2",NC |
| 29 | 21990 | 4 | LOCKWASHER,1/2" |
| 30 | 23645 | 1 | PUMP |
| 31 | 21733 | 2 | CAPSCREW,1/2" X 2",NC |
| 32 | 27134 | 2 | CAPSCREW,1/2" X 2-1/4",NC |
| 37 | ----- | - | TRACTOR SIDE PANEL |
| 38 | 6T3927 | 1 | SOLENOID |
| 42 | 21579 | 2 | CAPSCREW - 5/16" X 3/4" |
| 43 | 21987 | 2 | LOCKWASHER - 5/16" |
| 44 | 21575 | 2 | HEXNUT - 5/16" NC |

TRACTOR MOUNT KIT - HYDRAULICS

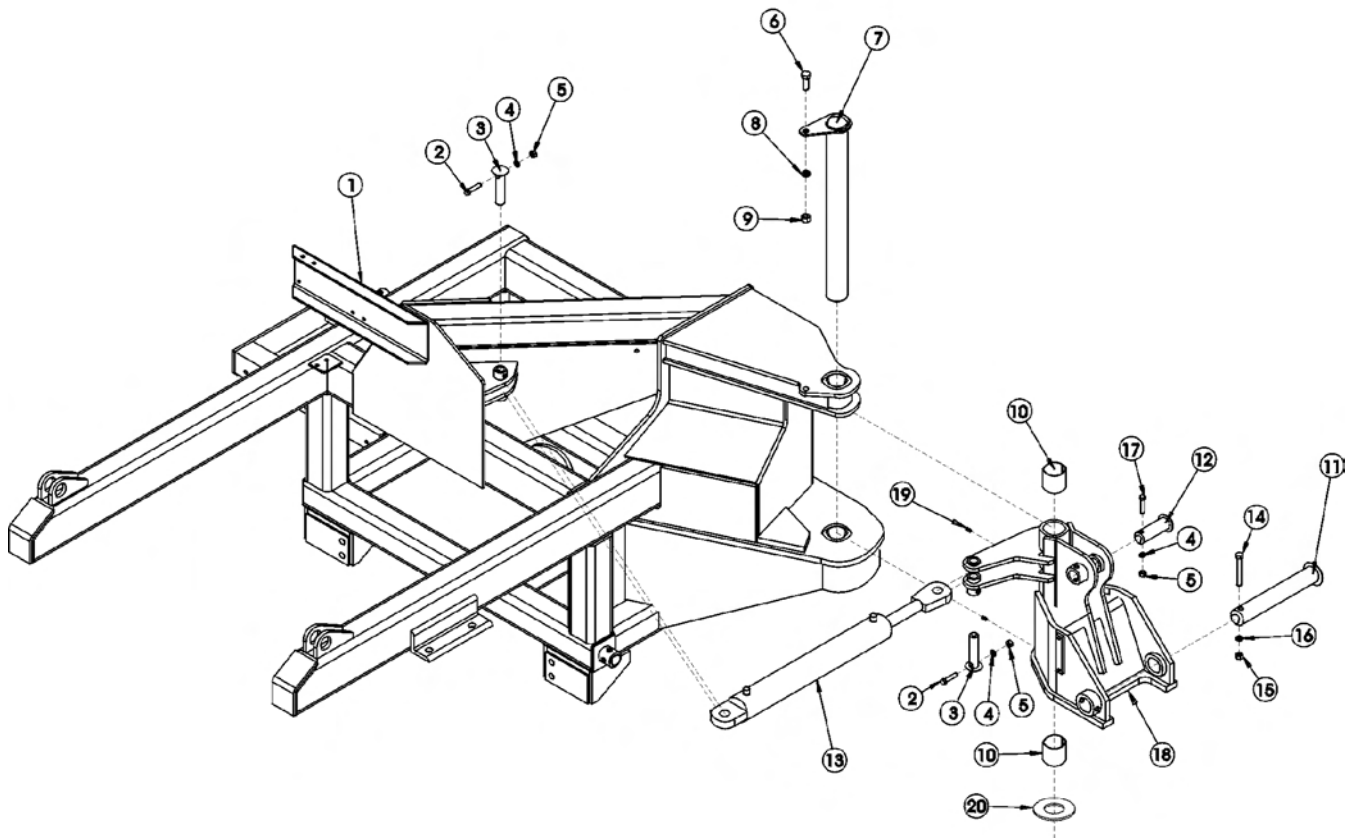


TRACTOR MOUNT KIT - HYDRAULICS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | MAIN FRAME *REFER TO TRACTOR MOUNT KIT PAGE |
| 2 | ----- | - | RESERVOIR TANK *REFER TO TRACTOR MOUNT KIT PAGE |
| 3 | 06500089 | 2 | HOSE,1" X 86" |
| 9 | 34865 | 1 | HOSE,1" X 57" |
| 10 | 06500088 | 1 | HOSE,1" X 34" |
| 11 | 33555 | 3 | ADAPTER,1"MOR X 1"MJ |
| 12 | 33554 | 1 | ELBOW,1"MOR X 1"MJ,45° |
| 13 | 06510084 | 1 | SOLENOID BRAKE VALVE |
| 14 | 21644 | 2 | CAPSCREW,3/8" X 5",NC |
| 16 | 34064 | 2 | ADAPTER,1-1/4" |
| 19 | TF4852 | 1 | FLANGE KIT,#20 |
| 20 | 23825 | 1 | NIPPLE,KING,FLANGE |
| 21 | 6T3018 | 4 | BANDIT CLAMPS |
| 22 | 22897 | 13 | SUCTION HOSE,BULK (IN INCHES) |
| 23 | 6T4238 | 1 | BALL VALVE,1-1/2" |
| 26 | 21988 | 2 | LOCKWASHER,3/8" |
| 29 | TF4854 | 1 | FLANGE KIT,#24 |
| 31 | ----- | - | PUMP *REFER TO TRACTOR MOUNT KIT PAGE |
| 32 | 6T3800 | 1 | NIPPLE,KING,1-1/2" |
| --- | 6T3200 | 8 | SPLIT HOSE - (NOT SHOWN) |
| ---- | 6T1822 | 36 | ZIP TIE - (NOT SHOWN) |
| --- | 6T1823 | 24 | ZIP TIE - (NOT SHOWN) |

BOOM MOUNT KIT

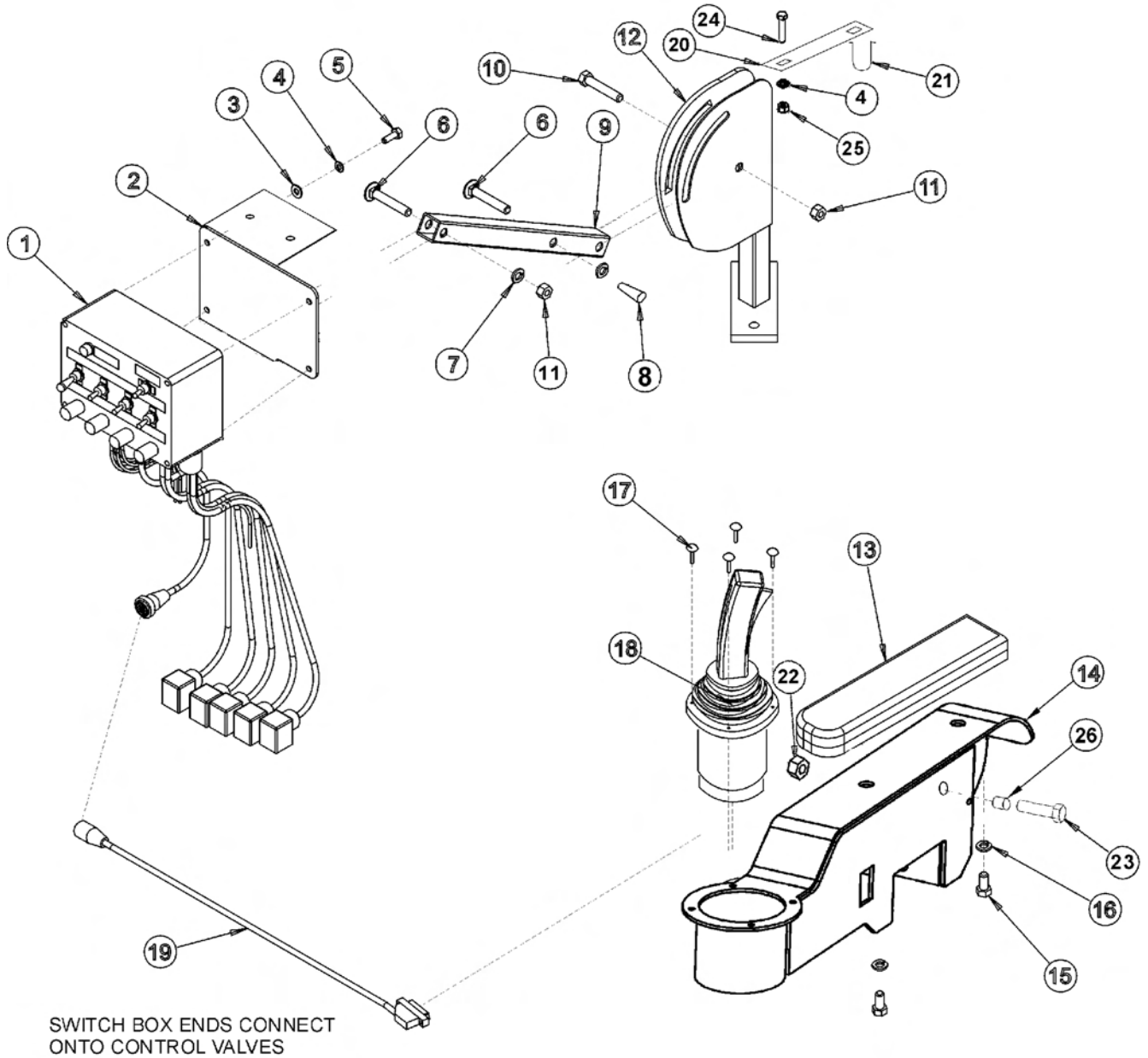


BOOM MOUNT KIT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | ----- | - | MAIN FRAME *REFER TO TRACTOR MOUNT KIT PAGE |
| 2 | 21683 | 2 | CAPSCREW,7/16" X 2",NC |
| 3 | 32380 | 2 | PIN |
| 4 | 21989 | 3 | LOCKWASHER,7/16" |
| 5 | 21675 | 3 | HEX NUT,7/16",NC |
| 6 | 21782 | 1 | CAPSCREW,5/8" X 1-3/4",NC |
| 7 | 32381 | 1 | PIN |
| 8 | 21992 | 1 | LOCKWASHER,5/8" |
| 9 | 21775 | 1 | HEX NUT,5/8",NC |
| 10 | 32322 | 2 | BEARING |
| 11 | 32378 | 1 | PIN |
| 12 | 32372 | 1 | PIN |
| 13 | 33229 | 1 | CYLINDER |
| 14 | 21741 | 1 | CAPSCREW,1/2" X 4",NC |
| 15 | 21725 | 1 | HEX NUT,1/2",NC |
| 16 | 21990 | 1 | LOCKWASHER,1/2" |
| 17 | 21687 | 1 | CAPSCREW,7/16" X 3",NC |
| 18 | 32376 | 1 | BOOM SWIVEL |
| 19 | 6T3211 | 2 | GREASE ZERK |
| 20 | 06520250 | 1 | BEARING |

SWITCH BOX AND JOYSTICK MOUNT



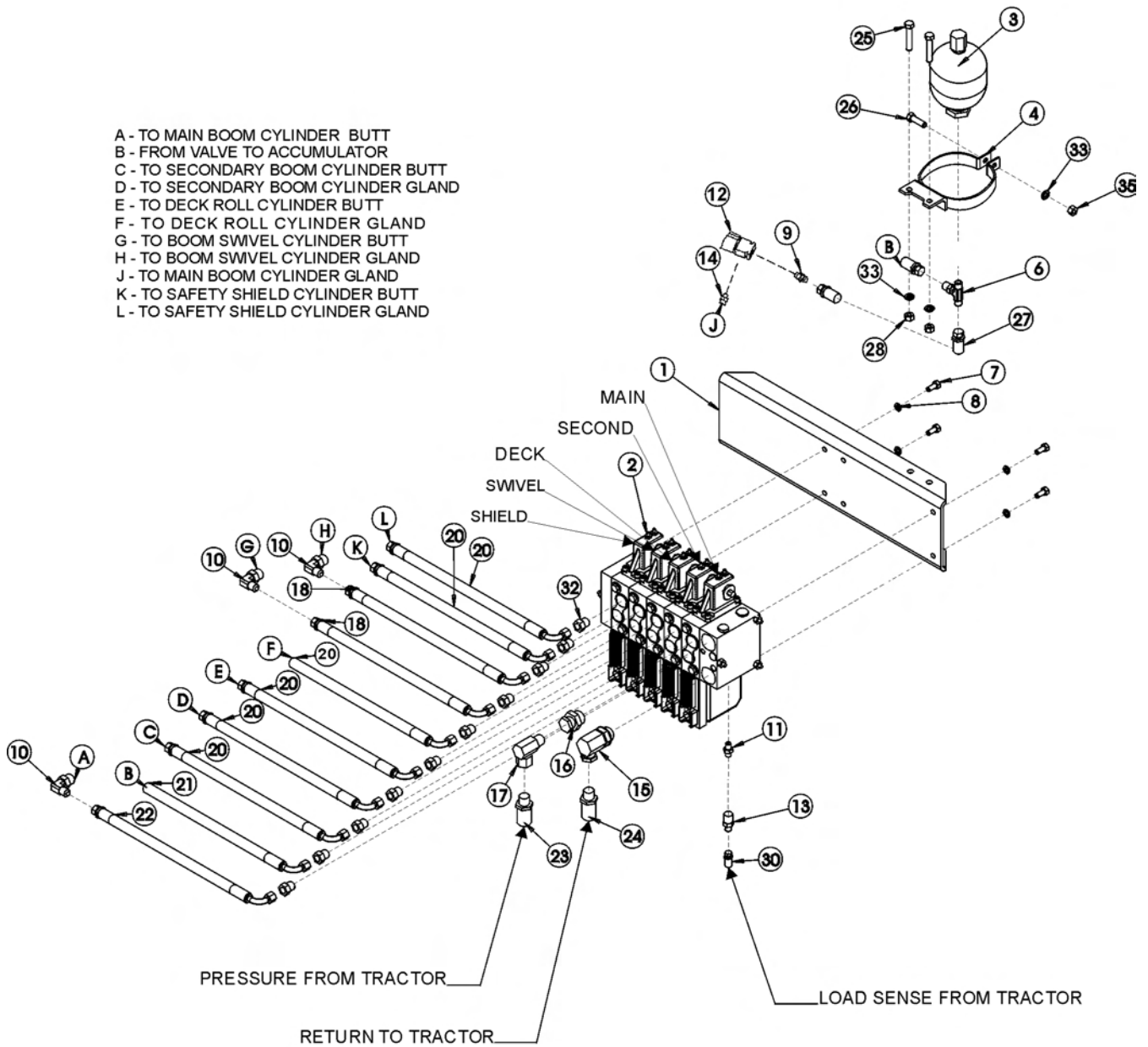
SWITCH BOX AND JOYSTICK MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 06510196 | 1 | SWITCH BOX |
| 2 | 33216 | 1 | PANEL,SWITCH BOX |
| 3 | 22014 | 4 | FLATWASHER,1/4" |
| 4 | 21986 | 5 | LOCKWASHER,1/4" |
| 5 | 21529 | 4 | CAPSCREW,1/4" X 3/4",NC |
| 6 | 32881 | 2 | CARRIAGE BOLT,3/8" X 2" |
| 7 | 22016 | 2 | FLATWASHER,3/8" |
| 8 | 32795 | 1 | ADJUSTMENT KNOB |
| 9 | 32880 | 1 | ARM,SWITCH BOX |
| 10 | 21634 | 1 | CAPSCREW,3/8" X 2",NC |
| 11 | 21625 | 2 | NYLOCK NUT,3/8",NC |
| 12 | 32878 | 1 | STAND,SWITCH BOX |
| 13 | 32788 | 1 | ARMREST PAD |
| 14 | 33227 | 1 | ARMREST |
| 15 | 21629 | 2 | CAPSCREW,3/8" X 3/4",NC |
| 16 | 21988 | 2 | LOCKWASHER,3/8" |
| 17 | 32829 | 4 | SCREW,MACHINE,10-32 X 3/4" |
| 18 | 33692 | 1 | JOYSTICK |
| 19 | 33694 | 1 | CABLE EXTENTION |
| 20 | 33217 | 1 | BRACKET |
| 21 | 33290 | 1 | U-BOLT,1/4" X 3/4" X 1-1/4" |
| 22 | 21727 | 1 | NYLOCK NUT,1/2",NC |
| 23 | 21735 | 1 | CAPSCREW,1/2" X 2-1/2",NC |
| 24 | 21530 | 1 | CAPSCREW,1/4" X 1",NC |
| 25 | 21525 | 1 | HEX NUT,1/4",NC |
| 26 | 06537002 | 1 | BUSHING |

ELECTRONIC PROPORTIONAL LIFT VALVE

- A - TO MAIN BOOM CYLINDER BUTT
- B - FROM VALVE TO ACCUMULATOR
- C - TO SECONDARY BOOM CYLINDER BUTT
- D - TO SECONDARY BOOM CYLINDER GLAND
- E - TO DECK ROLL CYLINDER BUTT
- F - TO DECK ROLL CYLINDER GLAND
- G - TO BOOM SWIVEL CYLINDER BUTT
- H - TO BOOM SWIVEL CYLINDER GLAND
- J - TO MAIN BOOM CYLINDER GLAND
- K - TO SAFETY SHIELD CYLINDER BUTT
- L - TO SAFETY SHIELD CYLINDER GLAND

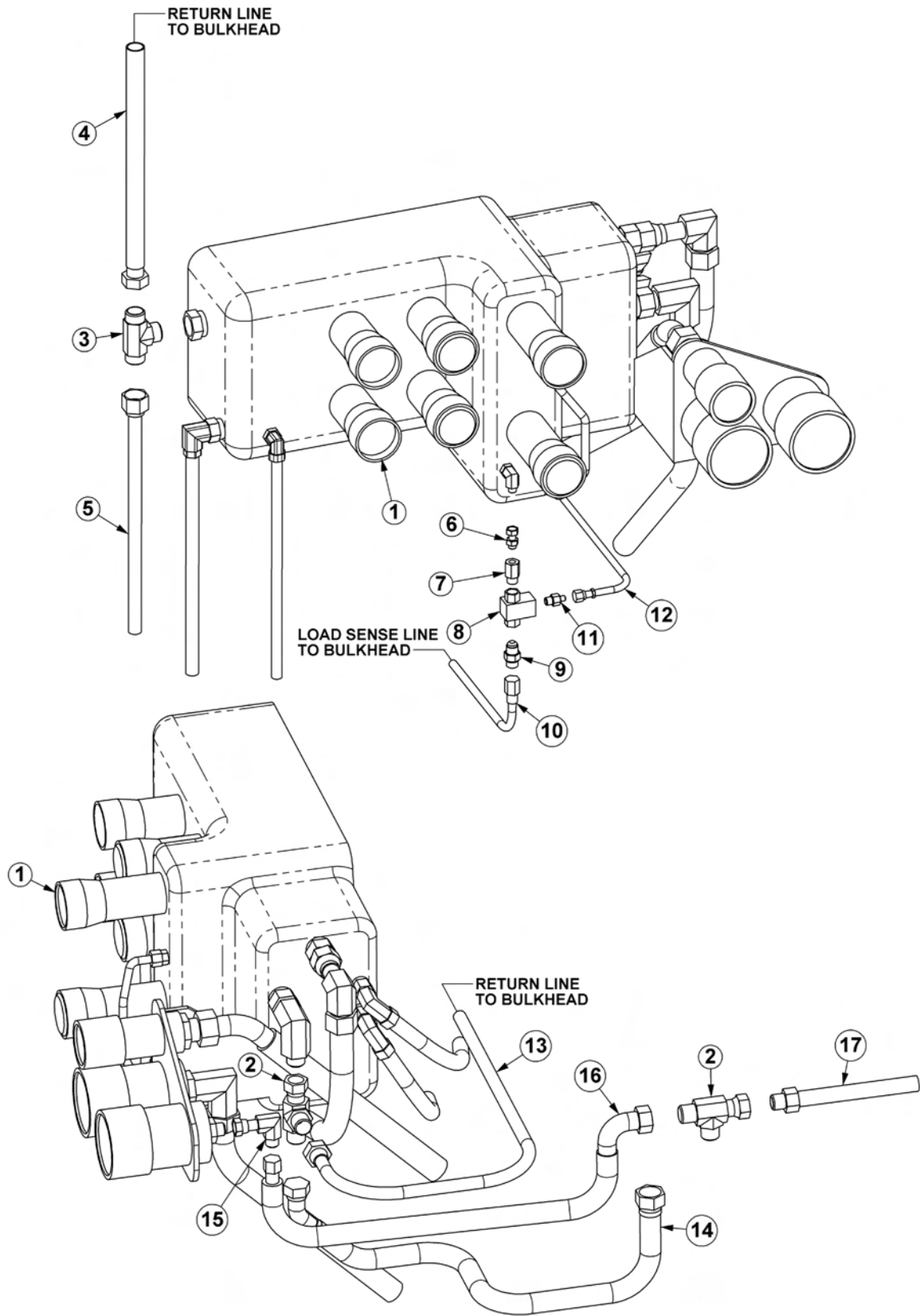


ELECTRONIC PROPORTIONAL LIFT VALVE

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 1 | ----- | - | MAIN FRAME - REFER TO TRACTOR MOUNT KIT PAGE |
| 2 | 06502096 | 1 | ELECTRONIC VALVE,5 SPOOL |
| 3 | 24300 | 1 | ACCUMULATOR |
| 4 | 23888 | 1 | ACCUMULATOR BRACKET |
| 6 | 34020 | 1 | TEE,BRANCH,3/8" MJ X 1/2" MOR X 3/8" MJ |
| 7 | 21579 | 4 | CAPSCREW,5/16" X 3/4",NC |
| 8 | 21987 | 4 | LOCKWASHER,5/16" |
| 9 | 33271 | 1 | ADAPTER,1/2" MOR X 3/8" MJ |
| 10 | 32810 | 3 | ELBOW,1/2" MOR X 3/8" MJ ADJ |
| 11 | 33392 | 1 | ADAPTER,5/16" MOR X 3/8" MJ |
| 12 | 06510050 | 1 | TRAVEL LOCK |
| 13 | 28992 | 1 | UNION |
| 14 | 31329 | 1 | ADAPTER,1/2" MOR X 1/2" MOR ADJ |
| 15 | 33294 | 1 | ELBOW ADAPTER |
| 16 | 33292 | 1 | ADAPTER |
| 17 | 33293 | 1 | ELBOW |
| 18 | 33265 | 2 | HOSE,3/8" X 93" |
| 20 | 33264 | 6 | HOSE,3/8" X 158" |
| 21 | 33261 | 1 | HOSE,3/8" X 24" |
| 22 | 33262 | 1 | HOSE,3/8" X 159" |
| 23 | 33268 | 1 | HOSE,1/2" X 56" (PRESSURE) |
| 24 | 33269 | 1 | HOSE,1/2" X 64" (RETURN) |
| 25 | 21631 | 2 | CAPSCREW,3/8" X 1-1/4",NC |
| 26 | 21634 | 1 | CAPSCREW,3/8" X 2",NC |
| 27 | 32814 | 1 | HOSE,3/8" X 178" |
| 28 | 21625 | 2 | HEX NUT,3/8",NC |
| 30 | 06500090 | 1 | HOSE,1/4" X 56" |
| 32 | 32807 | 10 | ADAPTER |
| 33 | 21988 | 3 | LOCKWASHER,3/8" |
| 35 | 21627 | 1 | NYLOCK NUT,3/8",NC |

TRACTOR REMOTES PLUMBING

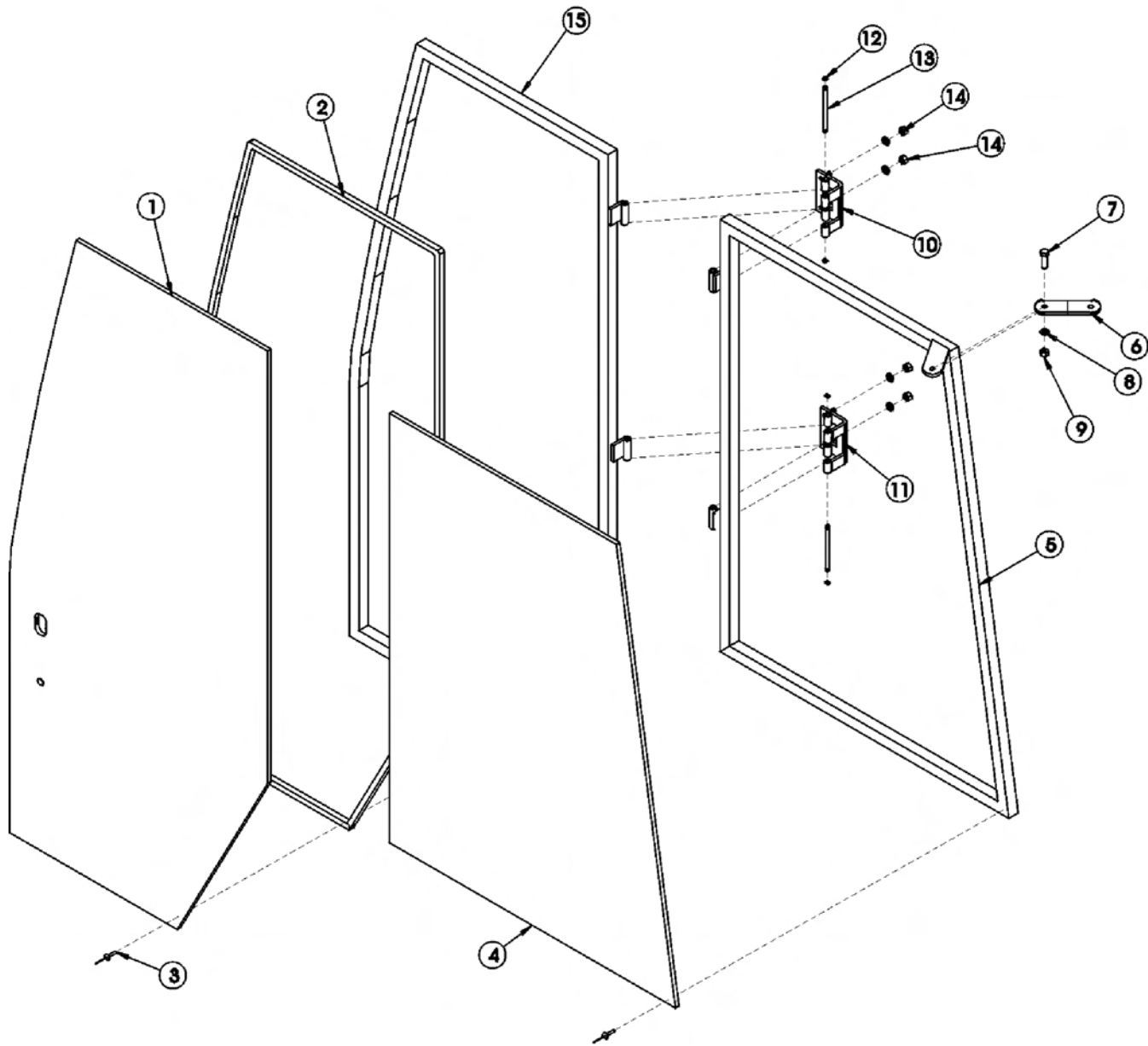


TRACTOR REMOTES PLUMBING

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------------|
| 1 | ----- | - | REAR REMOTES ON TRACTOR |
| 2 | 06503124 | 2 | TEE,BRANCH,3/4"MF X 3/4"FFX X 3/4"MF |
| 3 | 33295 | 1 | TEE,BRANCH,3/4"MFS X 3/4"MFS X 1"MOR |
| 4 | 33298 | 1 | HOSE,3/4" X 36" |
| 5 | ----- | - | EXISTING |
| 6 | 33390 | 1 | UNION,1/4"MOR X 1/4"FOR |
| 7 | 33391 | 1 | ADAPTER,3/8"MOR X 1/4"FOR |
| 8 | 3338806 | 1 | TEE,SHUTTLE,3/8"FOR |
| 9 | 32901 | 1 | ADAPTER,3/8"MOR X 1/4"MFS |
| 10 | 33360 | 1 | HOSE,1/4" X 54" |
| 11 | 06503093 | 1 | ADAPTER,3/8"MOR X 1/4"MFS |
| 12 | ----- | - | EXISTING |
| 13 | 06500446 | 1 | HOSE,3/4" X 40" |
| 14 | 06500447 | 1 | HOSE,3/4" X 38" |
| 15 | 34471 | 1 | ELBOW,5/8"MFS X 5/8"FFS |
| 16 | 06500448 | 1 | HOSE,3/4" X 41" |
| 17 | ----- | - | EXISTING |

POLYCARBONATE SAFETY SCREEN

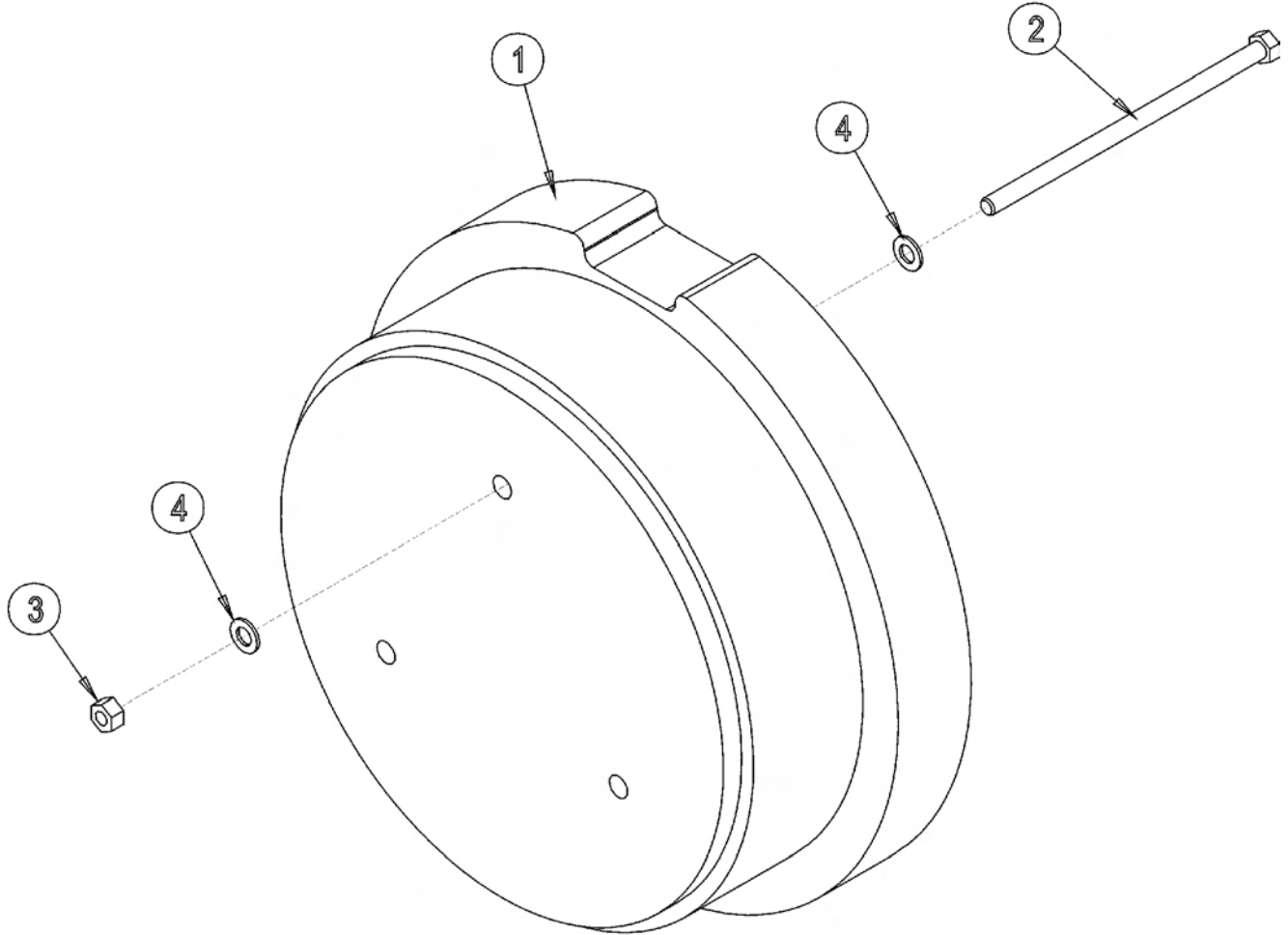


POLYCARBONATE SAFETY SCREEN

Continued...

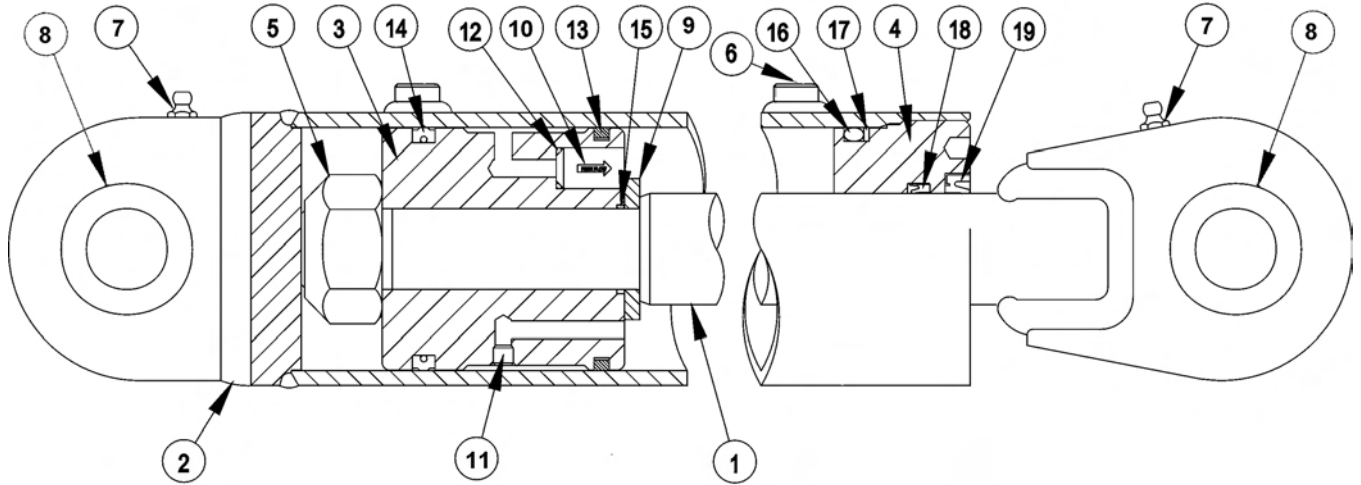
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|---|
| 1 | 32844 | 1 | LEXAN WINDOW - DOOR |
| 2 | 28403 | 1 | RIBBON SEALER |
| 3 | 6T3954 | 38 | POP RIVET - LARGE HEAD |
| --- | 33385 | 1 | ASSY,SAFETY SCREEN (ITEMS 3 (17X), 4 & 5) |
| 4 | 32842 | 1 | SIDE,LEXAN WINDOW |
| 5 | 32835 | 1 | FRAME,SIDE SAFETY WINDOW |
| 6 | 33250 | 1 | PLATE |
| 7 | 21631 | 1 | CAPSECREW,3/8" X 1-1/4",NC |
| 8 | 21988 | 5 | LOCKWASHER,3/8" |
| 9 | 21625 | 1 | HEX NUT,3/8",NC |
| 10 | 33347 | 1 | SAFETY HINGE, TOP |
| 11 | 32843 | 1 | SAFETY HINGE, LOWER |
| 12 | F9990741 | 4 | CLIP |
| 13 | F86500277 | 2 | PIN |
| 14 | 2160006 | 4 | HEX NUT,3/8",NF |
| 15 | ----- | - | EXISTING DOOR FRAME |

WHEEL WEIGHT - SABER



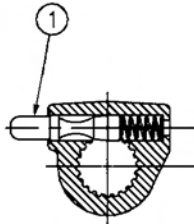
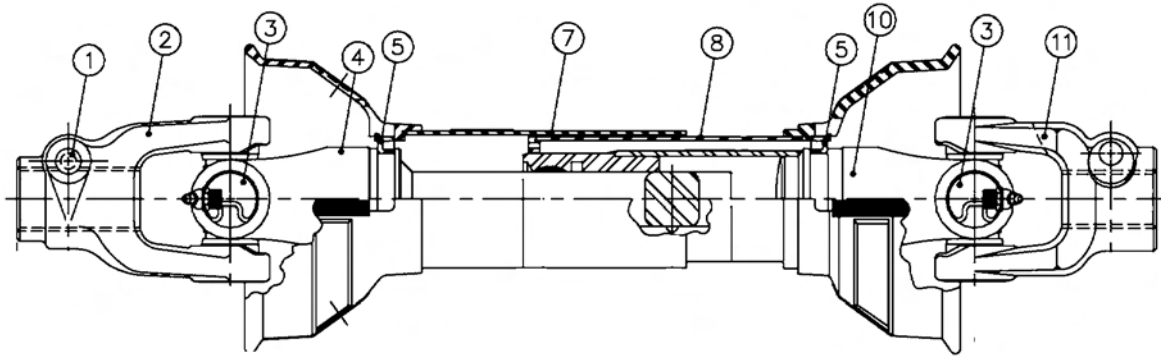
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------|
| 1 | 32615 | 1 | WHEEL WEIGHT,1700# |
| 2 | 31455 | 3 | CAPSCREW,7/8" X 14",NC |
| 3 | 06531000 | 3 | HEX NUT,7/8",NC |
| 4 | 06533000 | 6 | FLATWASHER,7/8" |

3IN X 18IN HYDRAULIC CYLINDER - 33229

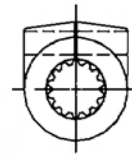


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 1 | 06501594 | 1 | PISTON ROD |
| 2 | 06501595 | 1 | BUTT & TUBE ASSY |
| 3 | 06501596 | 1 | PISTON |
| 4 | 06501597 | 1 | GLAND |
| 5 | TB1056 | 1 | LOCKNUT,3-1/2" CYL ROD |
| 6 | 06501598 | 2 | PLUG,SHIPPING |
| 7 | 06501599 | 2 | ZERK,GREASE |
| 8 | 34334 | 2 | BEARING,SHERICAL,1" |
| 9 | 06501600 | 1 | SPACER |
| 10 | 06501601 | 2 | CHECK VALVE |
| 11 | 06501602 | 2 | ORIFICE |
| 12 | ----- | 2 | O-RING |
| 13 | ----- | 2 | RING |
| 14 | ----- | 1 | CROWN SEAL |
| 15 | ----- | 1 | O-RING |
| 16 | ----- | 1 | O-RING |
| 17 | ----- | 1 | WASHER |
| 18 | ----- | 1 | U-CUP |
| 19 | ----- | 1 | WIPER |
| --- | 06501603 | 1 | SEAL KIT,33229 (ITEMS 12 THRU 19) |

PTO BREAKDOWN - 23858



1 3/8-21 SPLINE
PER ASAE S203.13



1.26-14 SPLINE

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 23989 | 1 | PIN,SPRING AND KEEPER |
| 2 | 23987 | 1 | YOKE,SNAP HITCH |
| 3 | TF1302 | 2 | KIT,CROSS AND BEARING |
| 4 | TF1303 | 1 | YOKE (1-3/16" SQUARE) |
| --- | 23990 | 1 | SHAFT,1-3/16" X 6-1/8",SQUARE (IN FEET) |
| 5 | TF1309 | 2 | BEARING,NYLON |
| 7 | 23993 | 1 | SHIELD,OUTER |
| 8 | 23992 | 1 | SHIELD,INNER |
| 10 | TF1310 | 1 | YOKE (FOR TORQUE TUBE) |
| --- | 23991 | 1 | TORQUE TUBE |
| ---- | TF1306 | 1 | SLIP SLEEVE |
| 11 | 23988 | 1 | YOKE,1-1/4",14 SPLINE |

COMMON SABER BOOM

PARTS SECTION

NOTES

PART NAME INDEX

| | |
|--|----|
| PARTS ORDERING GUIDE..... | 5 |
| BOOM SWIVEL ASSEMBLY..... | 6 |
| QUICK COUPLERS..... | 8 |
| SABER BOOM ASSEMBLY..... | 10 |
| SABER MB BOOM ASSEMBLY..... | 12 |
| SABER XB BOOM ASSEMBLY..... | 14 |
| 50IN FLAIL ASSEMBLY..... | 16 |
| 50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES..... | 18 |
| 50IN FLAIL DRIVE ASSEMBLY..... | 20 |
| SABER DIRECT DRIVE FLAIL ASSY..... | 22 |
| SABER DIRECT DRIVE ASSEMBLY..... | 24 |
| 63IN FLAIL ASSEMBLY..... | 26 |
| 63IN FLAIL DRIVE ASSEMBLY..... | 28 |
| 50IN SABER ROTARY MOWER..... | 30 |
| 50IN SABER MB ROTARY MOWER..... | 32 |
| 50IN SABER XB ROTARY MOWER..... | 34 |
| 60IN SABER ROTARY MOWER..... | 36 |
| 60IN ROTARY KNIFE AND DISH OPTION..... | 38 |
| SABER SPINDLE ASSEMBLY..... | 40 |
| SABER XB & 60IN SPINDLE ASSY..... | 42 |
| 3IN X 17-1/2IN WELDED CYLINDER BREAKDOWN..... | 44 |
| 4IN X 15IN WELDED CYLINDER BREAKDOWN..... | 45 |
| 4-1/2IN X 26-1/2IN WELDED CYLINDER BREAKDOWN..... | 46 |
| 5IN X 25IN WELDED CYLINDER BREAKDOWN..... | 47 |
| PUMP AND GRILL GUARD OPTIONS..... | 48 |
| RESERVOIR TANK FILTER ASSEMBLY..... | 49 |
| FRONT HYDRAULIC PUMP..... | 50 |
| 50IN AND 63IN FLAIL MOTOR BREAKDOWN..... | 52 |
| 50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN..... | 54 |
| 50IN AND 60IN ROTARY MOTOR BREAKDOWN..... | 56 |
| COOLER ASSEMBLY..... | 58 |
| CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104..... | 60 |
| CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103..... | 62 |
| 5 SPOOL ELECTRONIC VALVE - 06502096..... | 64 |
| BRAKE VALVE ASSEMBLY..... | 66 |
| BRAKE VALVE HYDRAULIC SCHEMATIC..... | 67 |
| SOLENOID SWITCH BOX AND WIRING..... | 68 |
| MANUAL LIFT VALVE SWITCH BOX..... | 69 |
| MANUAL LIFT VALVE SCHEMATIC..... | 70 |
| ELECTRONIC LIFT VALVE SWITCH BOX..... | 71 |

COMMON SABER

PART NAME INDEX

| | |
|---|-----|
| ELECTRONIC LIFT VALVE SCHEMATIC..... | 72 |
| LEFT HAND JOYSTICK SWITCHBOX SCHEMATIC..... | 73 |
| TROUBLESHOOTING..... | 74 |
| TROUBLESHOOTING - CONTINUED..... | 75 |
| HYDRAULIC TROUBLESHOOTING GUIDE..... | 76 |
| ELECTRICAL TROUBLESHOOTING GUIDE..... | 77 |
| NOTES 1..... | 78 |
| CLEAN CUTTER HEAD..... | 79 |
| CLEAN CUTTER ASSEMBLY..... | 80 |
| CLEAN CUTTER OPERATION..... | 81 |
| CLEAN CUTTER OPERATION - CONTINUED..... | 82 |
| CLEAN CUTTER MAINTENANCE..... | 83 |
| CLEAN CUTTER BLADE AND TEETH PARTS..... | 84 |
| CARBIDE TIP REPLACEMENT..... | 85 |
| NOTES 2..... | 86 |
| FIRE SUPPRESSION SYSTEM..... | 87 |
| FIRE SUPPRESSION 3-POINT MOUNT..... | 88 |
| FIRE SUPPRESSION FRONT MOUNT..... | 90 |
| FIRE SUPPRESSION SYSTEM ELECTRICAL SCHEMATIC..... | 92 |
| WETCUT..... | 93 |
| WETCUT 50 GALLON TANK - 3PNT MOUNT..... | 94 |
| WETCUT 100 OR 150 GALLON TANK - 3PNT MOUNT..... | 95 |
| WETCUT 3PNT PLUMBING - 50IN MOWERS..... | 96 |
| WETCUT 3PNT PLUMBING - LARGE MOWERS..... | 98 |
| WETCUT FRONT PLUMBING - 50IN MOWERS..... | 100 |
| WETCUT FRONT PLUMBING - LARGER MOWERS..... | 102 |
| WETCUT 50IN SPRAYER HEAD ASSEMBLY..... | 104 |
| WETCUT 60IN SPRAYER HEAD ASSEMBLY..... | 106 |
| WETCUT CABLES..... | 108 |

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.

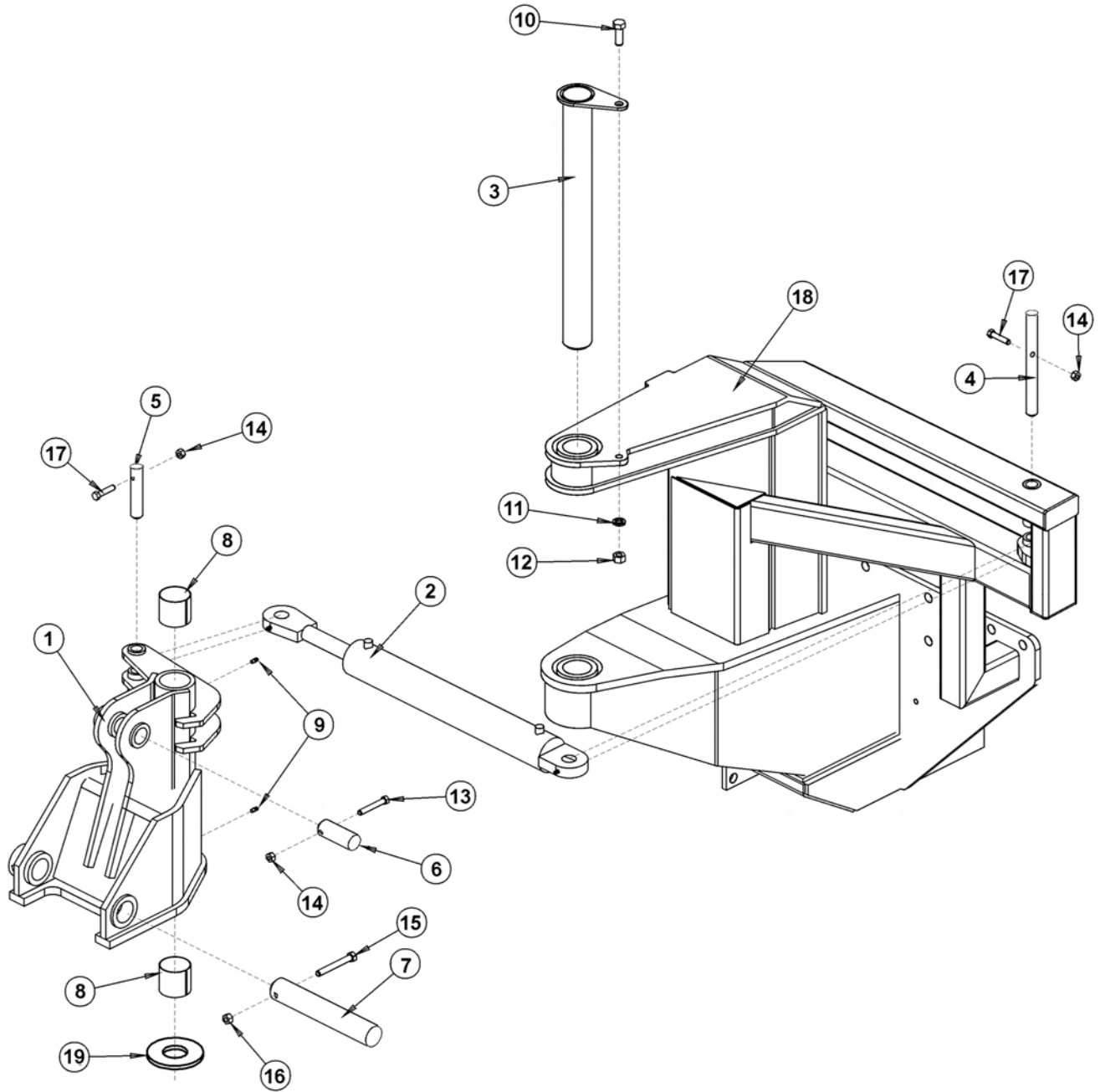


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

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 SWIVEL ASSEMBLY



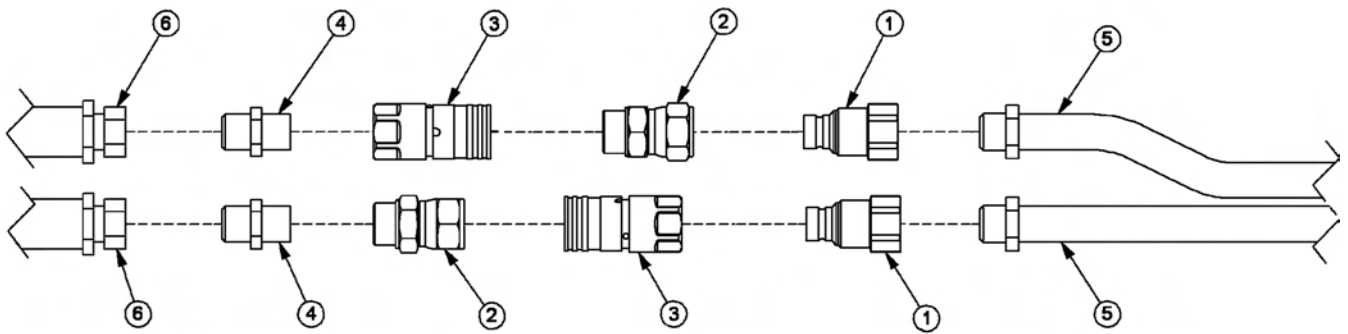
BOOM SWIVEL ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| --- | 32742 | 1 | SWIVEL W/BUSHINGS,BOOM,SABER |
| 1 | 32376 | 1 | SWIVEL,BOOM,SABER,W/O BUSHING |
| 2 | 33705 | 1 | CYLINDER,3X17 1/2,WELDED |
| 3 | 32381 | 1 | PIN,2 1/2,SWIVEL,SABER |
| 4 | 33710 | 1 | PIN,CYLINDER,1,SWIVEL,SABER |
| 5 | 32380 | 1 | PIN,CYL,1,SWIVEL,SABER |
| 6 | 32372 | 1 | PIN,CYLINDER,STAGE,2ND |
| 7 | 32378 | 1 | PIN,BOOM TO SWIVEL,SABER |
| 8 | 32322 | 2 | BEARING,DX,2 1/2X2 1/2LONG, |
| 9 | 6T3211 | 2 | GREASE ZERK,1/8 |
| 10 | 21782 | 1 | CAPSCREW,5/8 X 1-3/4 NC |
| 11 | 21992 | 1 | LOCKWASHER,5/8 |
| 12 | 21775 | 1 | HEX NUT,5/8 NC |
| 13 | 21687 | 1 | CAPSCREW,7/16 X 3 NC |
| 14 | 21677 | 3 | NYLOCK NUT,7/16 NC |
| 15 | 21741 | 1 | CAPSCREW,1/2 X 4 NC |
| 16 | 21727 | 1 | NYLOCK NUT,1/2 NC |
| 17 | 21683 | 2 | CAPSCREW,7/16 X 2 NC |
| 18 | ----- | - | MAIN FRAME - REFER TO MAIN FRAME PARTS |
| 19 | 06520250 | 1 | BEARING, WASHER |

COMMON SABER

QUICK COUPLERS



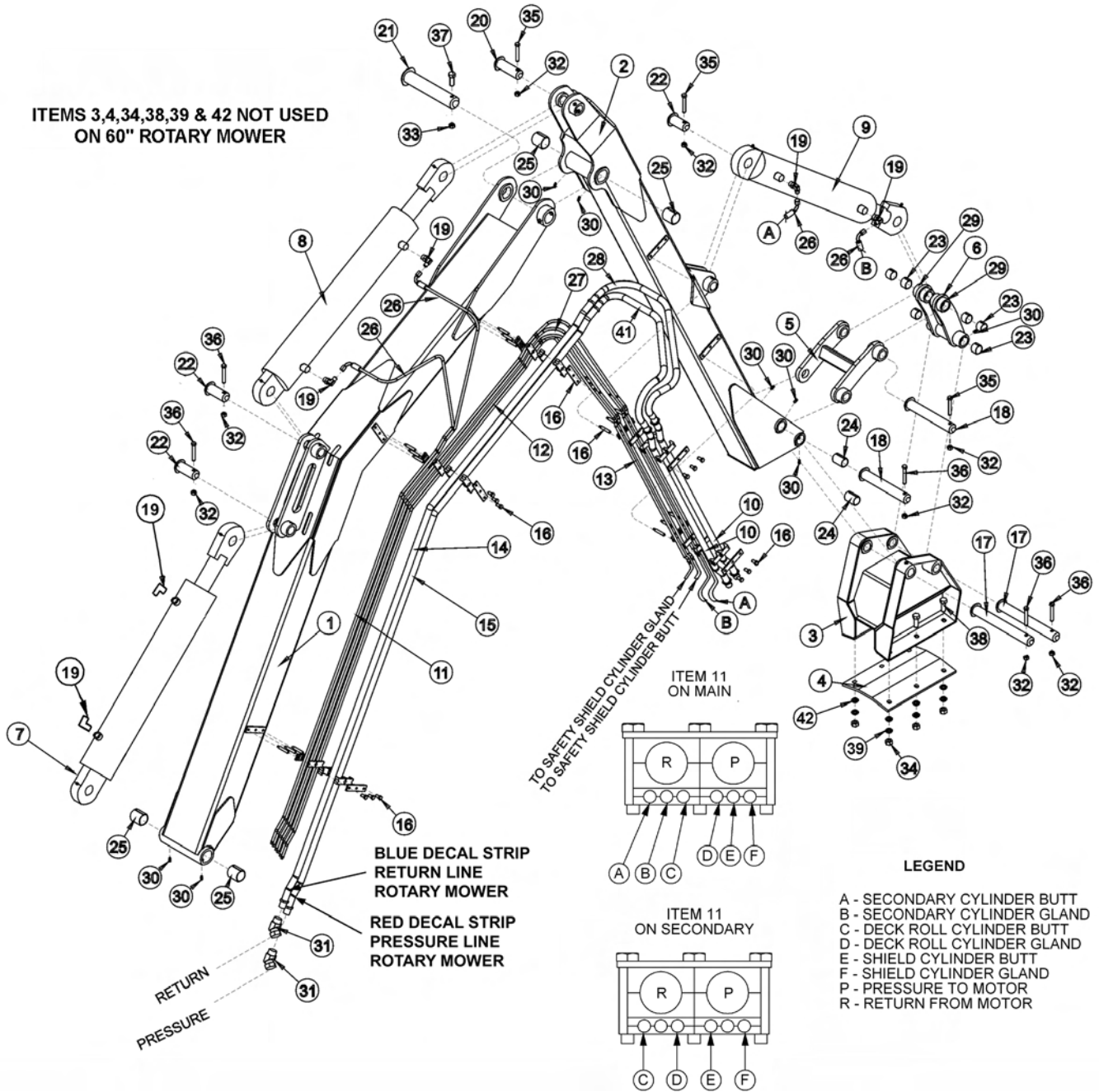
QUICK COUPLERS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 34392 | 2 | ADAPTER,1ORBX1FJX |
| 2 | 06503028 | 2 | QUICK COUPLER,1"SAE,MALE,FLAT |
| 3 | 06503027 | 2 | QUICK COUPLER,1"SAE,FEM,FLAT |
| 4 | 33555 | 2 | ADAPTER,1MORBX1MJIC |
| 5 | ----- | - | PREFORMED TUBES - REFER TO BOOM ARM PARTS |
| 6 | ----- | - | #16 HOSE - REFER TO HYDRAULICS PARTS |

SABER BOOM ASSEMBLY

ITEMS 3,4,34,38,39 & 42 NOT USED
ON 60" ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------------|
| 1 | 32743 | 1 | MAIN BOOM W/BEARING |
| 2 | 32744 | 1 | SECONDARY BOOM W/BEARING |
| 3 | 32311 | 1 | MOUNT, SWIVEL HEAD |
| 4 | 32309 | 1 | MOUNT HEAD PLATE |
| 5 | 32316 | 1 | LINKAGE, BOOM TO CYLINDER |
| 6 | 32745 | 1 | LINKAGE W/BEARING, CYLINDER TO SWIVEL |

COMMON SABER

SABER BOOM ASSEMBLY

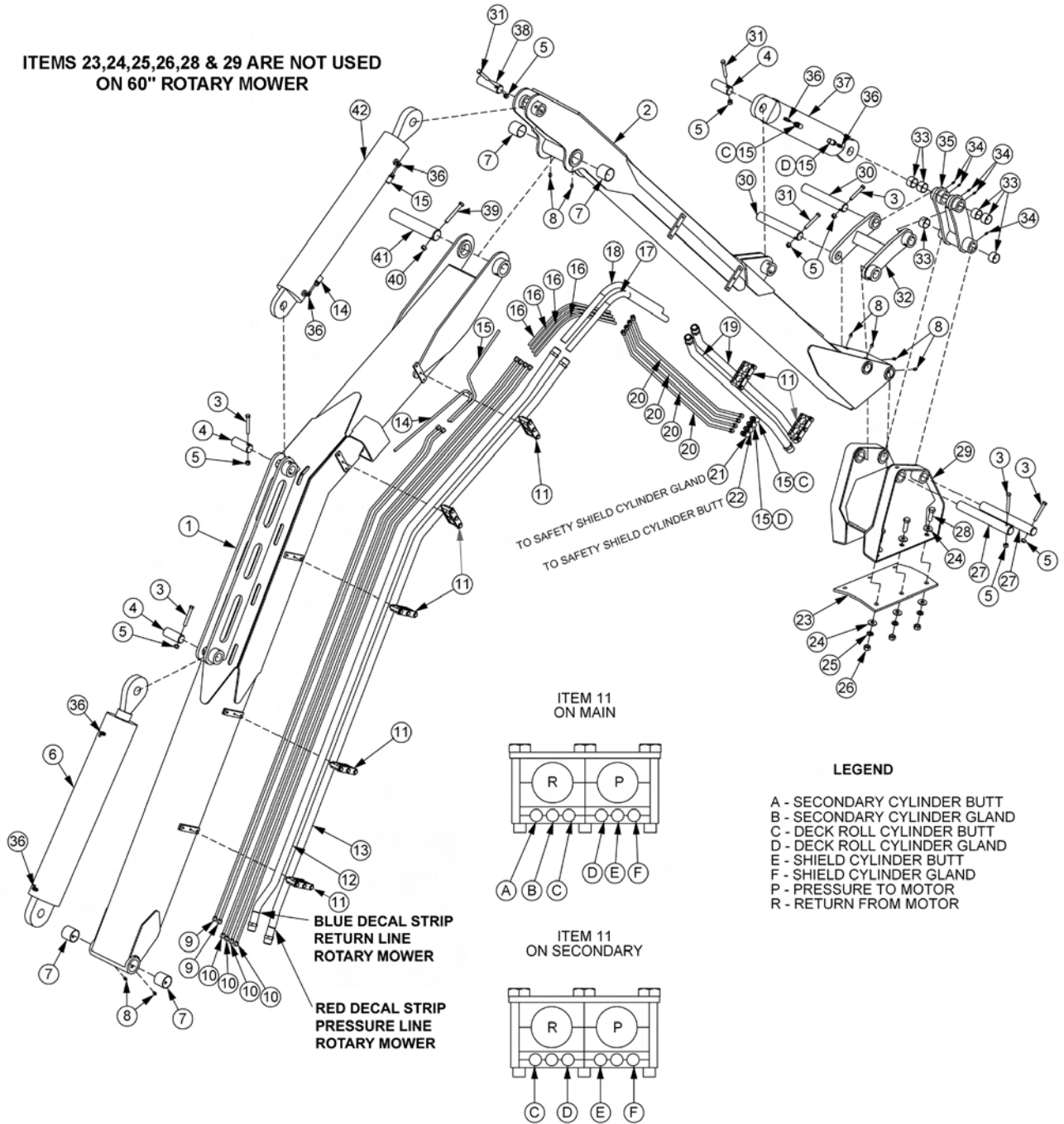
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------------|
| 7 | 32363 | 1 | CYLINDER,5" X 25" |
| 8 | 32364 | 1 | CYLINDER,4-1/2" X 26-1/2" |
| 9 | 32365 | 1 | CYLINDER,4" X 15" |
| 10 | 33542 | 2 | PREFORMED TUBE,1" |
| 11 | 32627 | 2 | PREFORMED TUBE,3/8" |
| 12 | 32628 | 4 | PREFORMED TUBE,3/8" |
| 13 | 32629 | 4 | PREFORMED TUBE,3/8" |
| 14 | 33541 | 1 | PREFORMED TUBE,1" (ROTARY RETURN) |
| 15 | 33540 | 1 | PREFORMED TUBE,1" (ROTARY PRESSURE) |
| 16 | 33215 | 5 | TUBE CLAMP KIT |
| 17 | 32313 | 2 | PIN |
| 18 | 32319 | 2 | PIN |
| 19 | 32810 | 6 | ELBOW |
| 20 | 32372 | 1 | PIN |
| 21 | 32374 | 1 | PIN |
| 22 | 32375 | 3 | PIN |
| 23 | 32318 | 6 | BEARING |
| 24 | 32321 | 4 | BEARING |
| 25 | 32362 | 4 | BEARING |
| 26 | 32818 | 4 | HOSE,3/8" X 24" |
| 27 | 32680 | 4 | HOSE,3/8" X 43" |
| 28 | 33544 | 1 | HOSE,1" X 40" |
| 29 | 6T3207 | 6 | GREASE ZERK |
| 30 | 6T3211 | 8 | GREASE ZERK |
| 31 | 24724 | 2 | SWIVEL |
| 32 | 21677 | 8 | NYLOCK NUT,7/16",NC |
| 33 | 21727 | 1 | NYLOCK NUT,1/2",NC |
| 34 | 6T2408 | 6 | HEX NUT,5/8",NC |
| 35 | 21687 | 3 | CAPSCREW,7/16" X 3",NC |
| 36 | 21688 | 5 | CAPSCREW,7/16" X 3-1/4",NC |
| 37 | 21741 | 1 | CAPSCREW,1/2" X 4",NC |
| 38 | 6T2290 | 6 | CAPSCREW,5/8" X 2",NC |
| 39 | 21992 | 6 | LOCKWASHER,5/8" |
| 40 | 35260 | 1 | HOSE COVER (NOT SHOWN) |
| 41 | 33543 | 1 | HOSE,1" X 39" |
| 42 | 25270 | 12 | FLATWASHER,5/8",USS |

COMMON SABER

SABER MB BOOM ASSEMBLY

ITEMS 23,24,25,26,28 & 29 ARE NOT USED ON 60" ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------|
| 1 | 06310075 | 1 | BOOM,MB,PRIMARY,SABER |
| 2 | 06310076 | 1 | BOOM,MB,SECONDARY,SABER |
| 3 | 21688 | 5 | CAPSCREW,7/16" X 3-1/4,NC |
| 4 | 32375 | 3 | PIN,1-1/2" X 3-13/16",W/HOLE |
| 5 | 21677 | 8 | NYLOCK NUT,7/16",NC |
| 6 | 32363 | 1 | CYLINDER,5" X 25" |

COMMON SABER

SABER MB BOOM ASSEMBLY

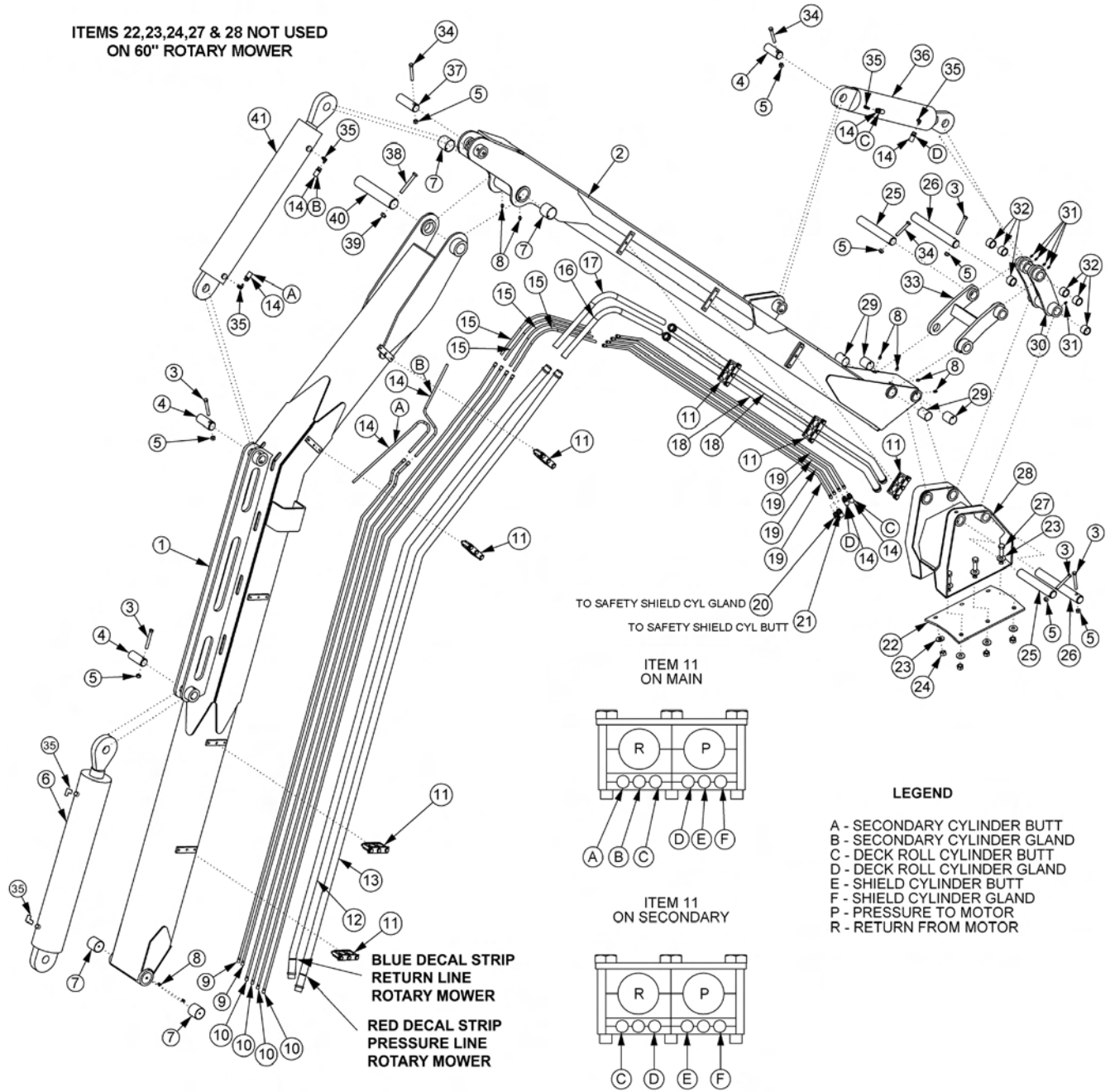
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 7 | 32362 | 4 | BEARING,DX,2" X 2" LONG |
| 8 | 6T3211 | 8 | GREASE ZERK,1/8" X STR |
| 9 | 06506042 | 2 | PRFRMD,1,MAIN,SABER MB |
| 10 | 06506043 | 4 | PRFRMD,2,MAIN,SABER MB |
| 11 | 33215 | 7 | TUBE CLAMP KIT |
| 12 | 06506045 | 1 | PRFRMD,4,MAIN,SABER MB (ROTARY RETURN) |
| 13 | 06506044 | 1 | PRFRMD,3,MAIN,SABER MB (ROTARY PRESSURE) |
| 14 | 06500488 | 1 | HOSE,3/8" X 39" |
| 15 | 32818 | 3 | HOSE,3/8" X 24" |
| 16 | 06500489 | 4 | HOSE,3/8" X 52" |
| 17 | 06500491 | 1 | HOSE,1" X 47" |
| 18 | 06500490 | 1 | HOSE,1" X 49" |
| 19 | 33542 | 2 | PRFRMD,2,SEC,SABER |
| 20 | 32629 | 4 | PRFRMD,1,SEC,SABER |
| 21 | 33223 | 1 | HOSE,3/8" X 70" |
| 22 | 33222 | 1 | HOSE,3/8" X 59" |
| 23 | 32309 | 1 | PLATE,MOUNT,HEAD,MOWER |
| 24 | 25270 | 12 | FLATWASHER,5/8",GR 8 |
| 25 | 21992 | 6 | LOCKWASHER,5/8" |
| 26 | 6T2408 | 6 | HEX NUT,5/8",NF |
| 27 | 32313 | 2 | PIN,MOUNT,SWIVEL |
| 28 | 6T2290 | 6 | CAPSCREW,5/8" X 2",NF,GR 8 |
| 29 | 32311 | 1 | MOUNT,SWIVEL,HEAD,MOWER |
| 30 | 32319 | 2 | PIN,LINKAGE,BOOM |
| 31 | 21687 | 3 | CAPSCREW,7/16" X 3",NC |
| 32 | 32316 | 1 | LINKAGE,BOOM TO CYLINDER,SABER |
| 33 | 32318 | 6 | BEARING,DX,1-1/2" X 1" LONG |
| 34 | 6T3207 | 6 | GREASE ZERK,1/4" |
| 35 | 32745 | 1 | LINKAGE W/BUSHINGS,SABER |
| 36 | 32810 | 6 | ELBOW,1/2ORB X 3/8MJ |
| 37 | 32365 | 1 | CYLINDER,4" X 15" |
| 38 | 32372 | 1 | PIN,CYLINDER,STAGE,2ND |
| 39 | 21741 | 1 | CAPSCREW,1/2" X 4",NC |
| 40 | 21727 | 1 | NYLOCK NUT,1/2" |
| 41 | 32374 | 1 | PIN,BOOM,STAGE 1ST TO 2ND |
| 42 | 32364 | 1 | CYLINDER,4-1/2" X 26-1/2" |

COMMON SABER

SABER XB BOOM ASSEMBLY

ITEMS 22,23,24,27 & 28 NOT USED
ON 60" ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| 1 | 06310031 | 1 | BOOM, LONG, PRIMARY, SABER |
| 2 | 06310032 | 1 | BOOM, LONG, SECONDARY, SABER |
| 3 | 21688 | 5 | CAPSCREW, 7/16" X 3-1/4", NC |
| 4 | 32375 | 3 | PIN, 1-1/2" X 3-13/16", W/HOLE |
| 5 | 21677 | 8 | NYLOCK NUT, 7/16", NC |
| 6 | 32363 | 1 | CYLINDER, 5" X 25" |

COMMON SABER

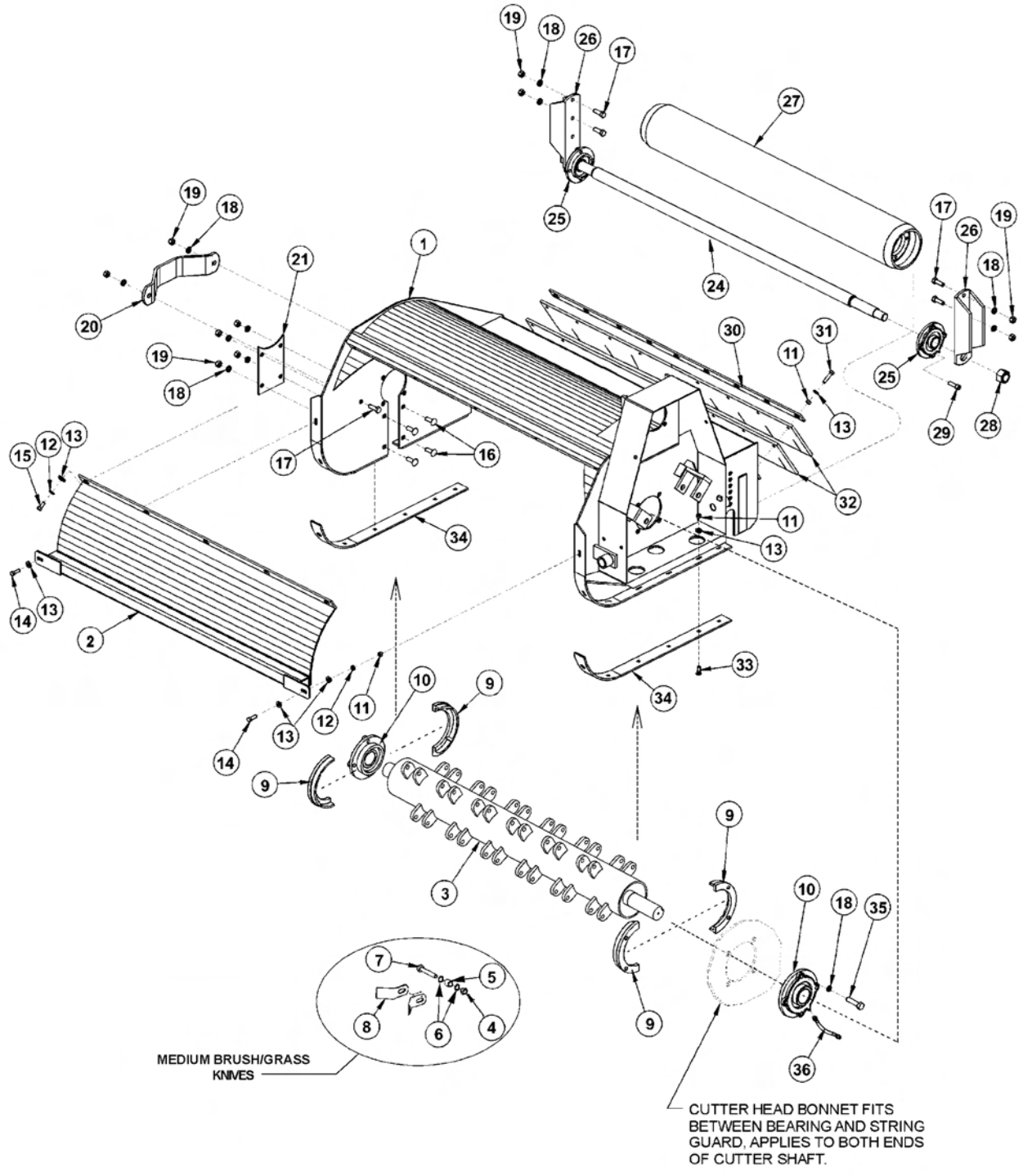
SABER XB BOOM ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 7 | 32362 | 4 | BEARING,DX,2" X 2" LONG |
| 8 | 6T3211 | 8 | GREASE ZERK,1/8" X STR |
| 9 | 06506029 | 2 | PRFRMD,1,MAIN,SABER XB |
| 10 | 06506030 | 4 | PRFRMD,2,MAIN,SABER XB |
| 11 | 33215 | 7 | TUBE CLAMP KIT |
| 12 | 06506032 | 1 | PRFRMD,4,MAIN,SABER XB (ROTARY RETURN) |
| 13 | 06506031 | 1 | PRFRMD,3,MAIN,SABER XB (ROTARY PRESSURE) |
| 14 | 32818 | 4 | HOSE,3/8" X 24" |
| 15 | 32680 | 4 | HOSE,3/8" X 43" |
| 16 | 33543 | 1 | HOSE,1" X 39" |
| 17 | 33544 | 1 | HOSE,1" X 40" |
| 18 | 06506034 | 2 | PRFRMD,2,SEC,SABER XB |
| 19 | 06506033 | 4 | PRFRMD,1,SEC,SABER XB |
| 20 | 33223 | 1 | HOSE,3/8" X 70" |
| 21 | 33222 | 1 | HOSE,3/8" X 59" |
| 22 | 32309 | 1 | PLATE,MOUNT,HEAD,MOWER |
| 23 | 25270 | 12 | FLATWASHER,5/8",GR 8 |
| 24 | 6T2408 | 6 | HEX NUT,5/8",NF |
| 25 | 32319 | 2 | PIN,LINKAGE,BOOM |
| 26 | 32313 | 2 | PIN,MOUNT,SWIVEL,HEAD,MOWER |
| 27 | 6T2290 | 6 | CAPSCREW,5/8" X 2",NF,GR 8 |
| 28 | 32311 | 1 | MOUNT,SWIVEL,HEAD,MOWER |
| 29 | 32321 | 4 | BEARING,DX,1-1/2" X 2" LONG |
| 30 | 32745 | 1 | LINKAGE W/BUSHINGS,SABER |
| 31 | 6T3207 | 6 | GREASE ZERK,1/4" |
| 32 | 32318 | 6 | BEARING,DX,1-1/2" X 1" LONG |
| 33 | 32316 | 1 | LINKAGE,BOOM TO CYLINDER,SABER |
| 34 | 21687 | 3 | CAPSCREW,7/16" X 3", NC |
| 35 | 32810 | 6 | ELBOW,1/2ORB X 3/8MJ |
| 36 | 32365 | 1 | CYLINDER,4" X 15" |
| 37 | 32372 | 1 | PIN,CYLINDER,STAGE,2ND |
| 38 | 21741 | 1 | CAPSCREW,1/2" X 4",NC |
| 39 | 21727 | 1 | NYLOCK NUT,1/2" |
| 40 | 32374 | 1 | PIN,BOOM,STAGE 1ST TO 2ND |
| 41 | 32364 | 1 | CYLINDER,4-1/2" X 26-1/2" |

COMMON SABER

50IN FLAIL ASSEMBLY



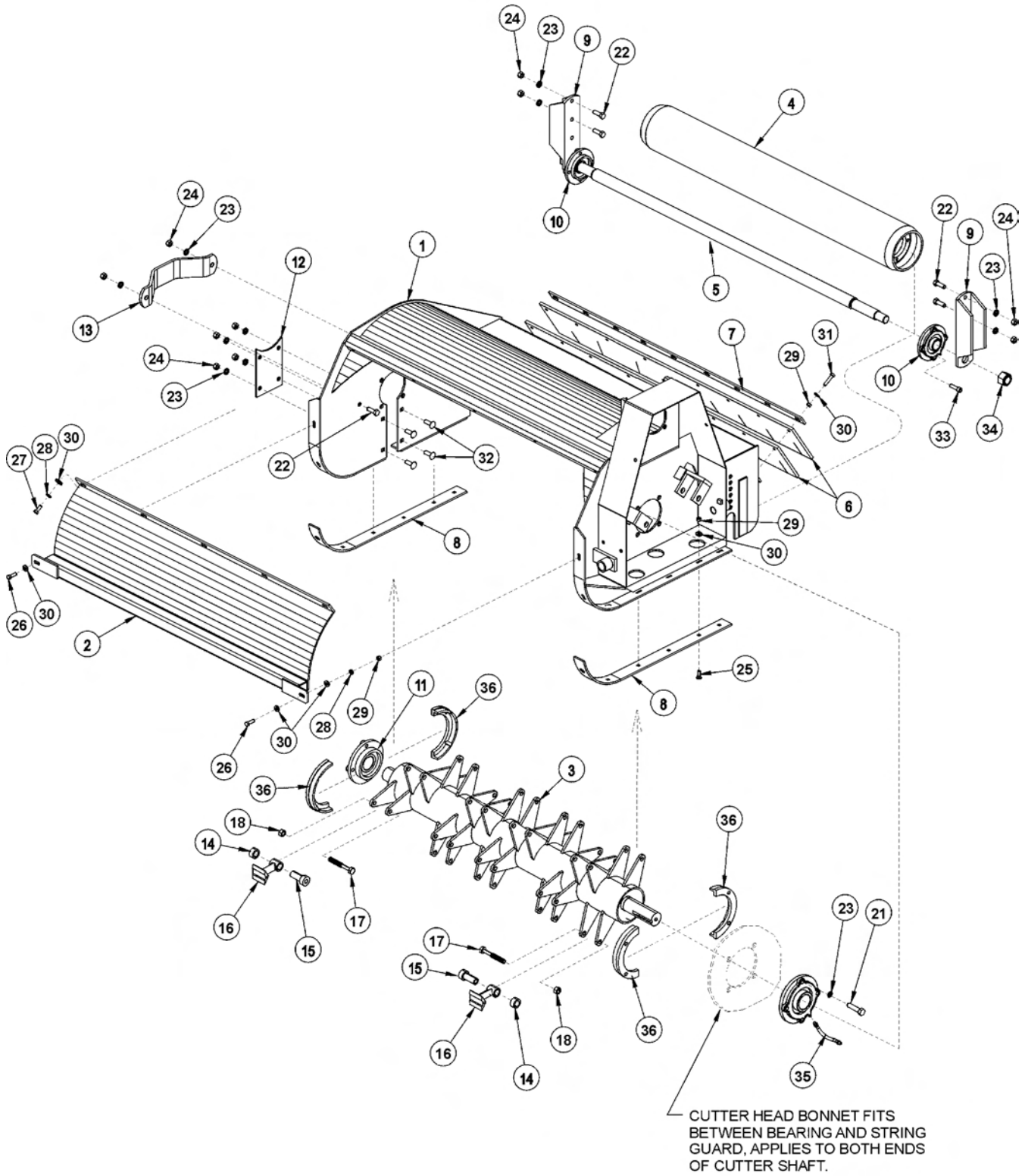
50IN FLAIL ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| ---- | 06742138 | 1 | FLAIL,BOOM,50,MD GRASS,CPLT ASSY (MEDIUM BRUSH/GRASS) |
| 1 | 06320145 | 1 | CUTTER HEAD BONNET |
| 2 | TF3004 | 1 | FRONT SHIELD |
| 3 | 06700115 | 1 | TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY) |
| 4 | 6T2419 | 24 | HEX NUT,9/16",NC,STOVER |
| 5 | 41725.01 | 24 | BUSHING,1"OD X 5/8"ID |
| 6 | 06430122 | 48 | SPACER (MEDIUM BRUSH/GRASS KNIVES) |
| 7 | 34786 | 24 | CAPSCREW,9/16" X 3-1/2",NC |
| 8 | 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 |
| 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 SABER

50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES



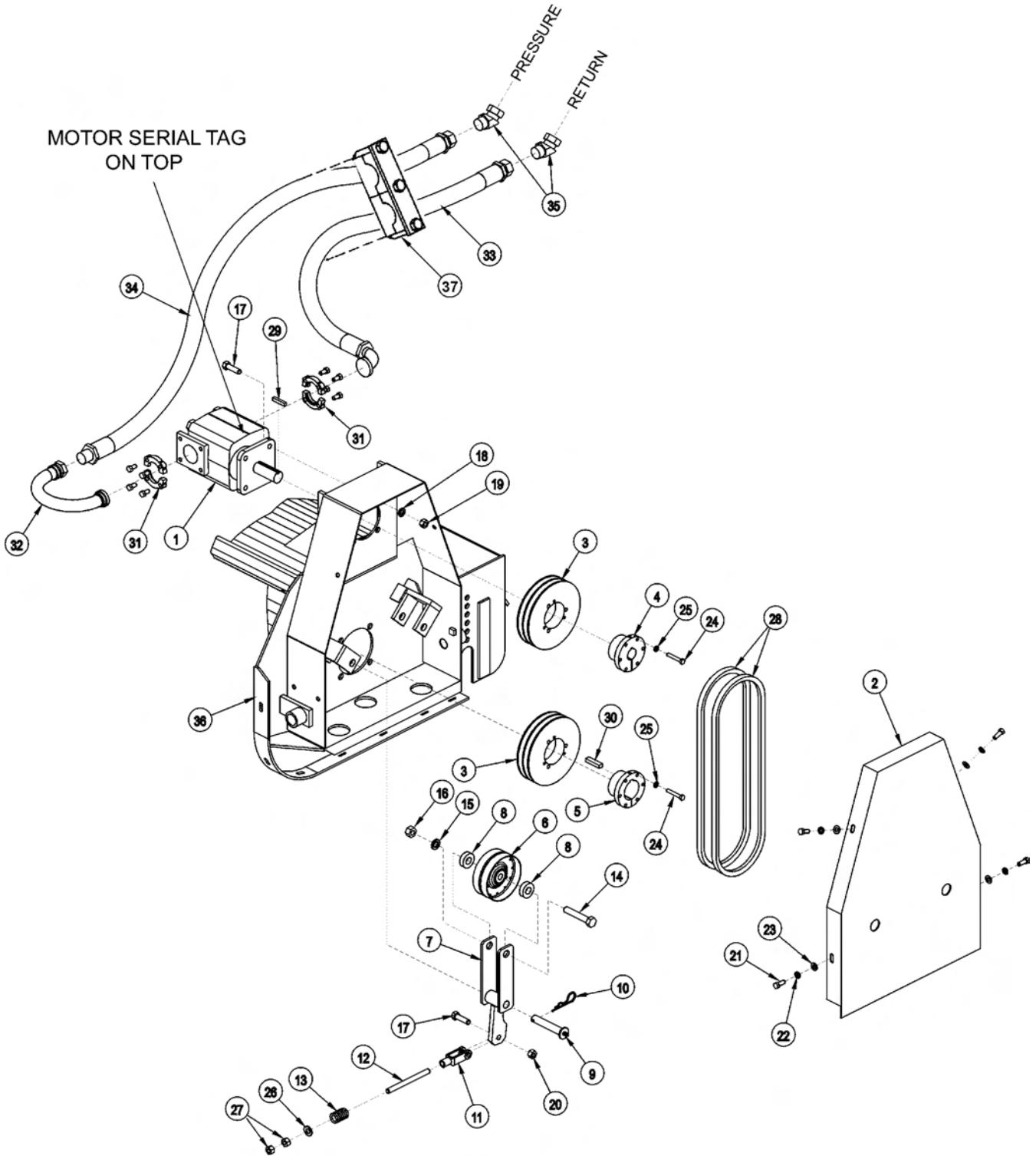
50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------------|
| --- | 06742135 | 1 | FLAIL,BOOM,50,CPLT ASSY |
| 1 | 06320145 | 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 |
| 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 SABER

50IN FLAIL DRIVE ASSEMBLY



50IN FLAIL DRIVE ASSEMBLY

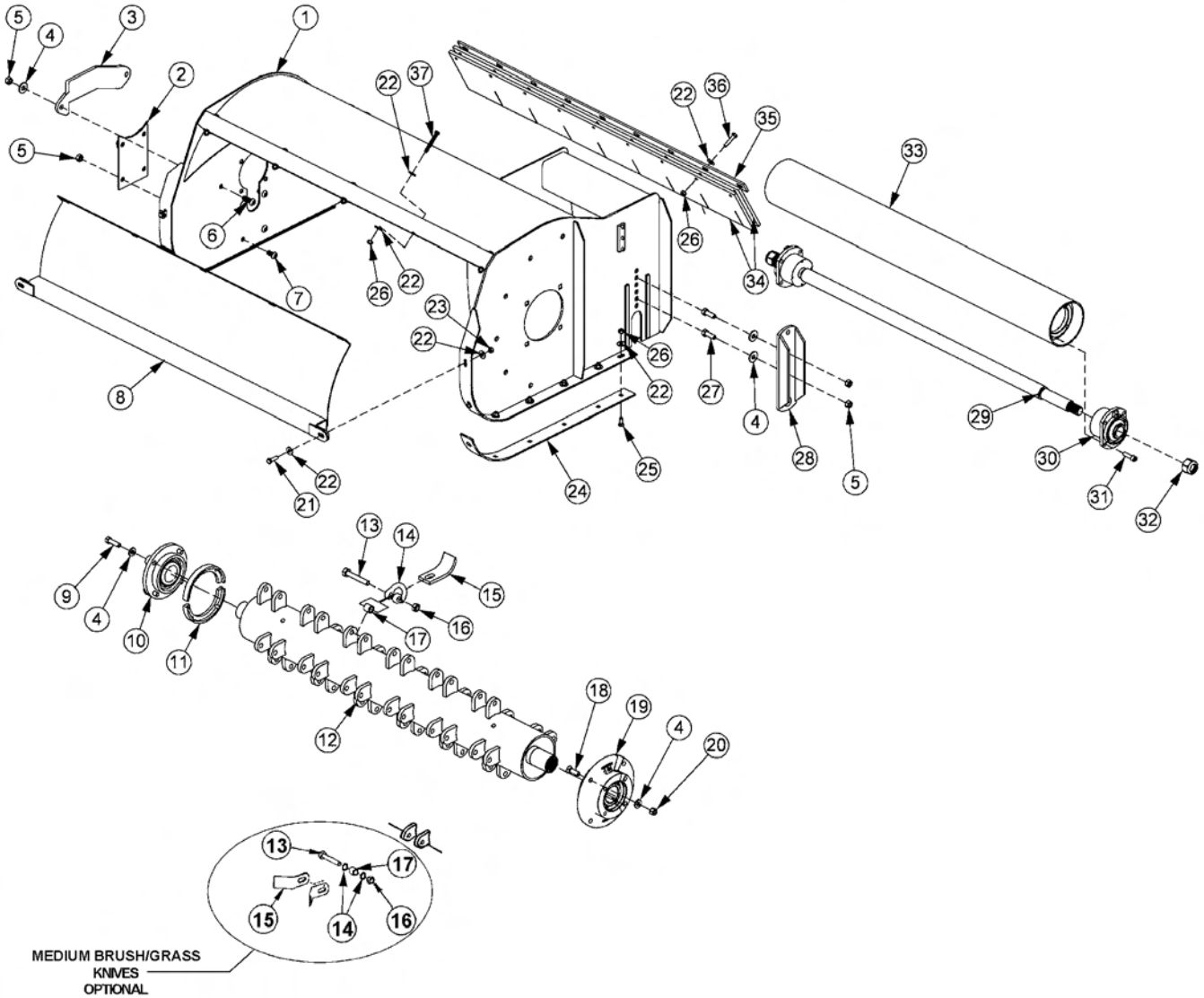
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------|
| 1 | 06504013 | 1 | MOTOR |
| 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",NC |
| 15 | 21992 | 1 | LOCKWASHER,5/8" |
| 16 | 21775 | 1 | HEX NUT,5/8",NC |
| 17 | 21732 | 5 | CAPSCREW,1/2" X 1-3/4",NC |
| 18 | 21990 | 4 | LOCKWASHER,1/2" |
| 19 | 21725 | 4 | HEX NUT,1/2",NC |
| 20 | 6T2418 | 1 | LOCK NUT,1/2" |
| 21 | 21630 | 4 | CAPSCREW,3/8" X 1",NC |
| 22 | 21988 | 4 | LOCKWASHER,3/8" |
| 23 | 22016 | 4 | FLATWASHER,3/8" |
| 24 | 21584 | 6 | CAPSCREW,5/16" X 2",NC |
| 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 | 06506038 | 1 | PREFORMED TUBE |
| 33 | 06500025 | 1 | HOSE,1 X 71 (RETURN) |
| 34 | 06500469 | 1 | HOSE,1 X 81 (PRESSURE) |
| 35 | 24724 | 2 | SWIVEL FITTING |
| 36 | ----- | - | CUTTER HEAD |
| 37 | 06505130 | 1 | CLAMP,HOSE |

COMMON SABER

SABER DIRECT DRIVE FLAIL ASSY

Parts of this machine are
protected by U.S. Patent
number 7,930,872 B2



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------------|
| --- | 06742086 | 1 | BONNET,SBF50,DD,ASSY (LIGHT BRUSH) |
| ---- | 06742142 | 1 | BONNET,SBF50,DD,ASSY (MEDIUM BRUSH) |

COMMON SABER

SABER DIRECT DRIVE FLAIL ASSY

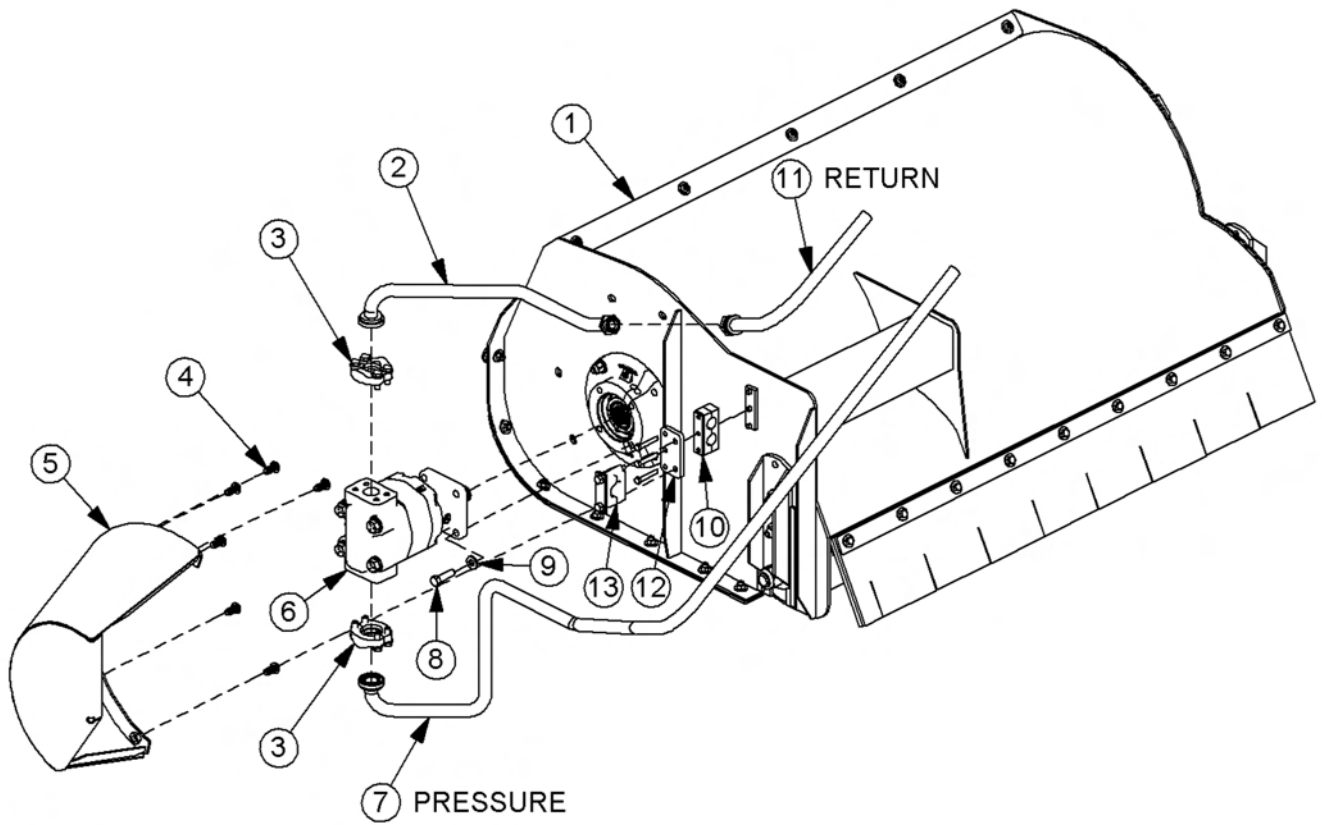
Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------------|
| 1 | 06320112 | 1 | BONNET |
| 2 | TF3007A | 1 | COVER PLATE |
| 3 | 06410794 | 1 | GUARD |
| 4 | 06533006 | 14 | FLATWASHER,1/2",GR 9 |
| 5 | 21727 | 10 | NYLOCK NUT,1/2",NC |
| 6 | 06530404 | 2 | CAPSCREW,SKT/BUT HD,1/2" X 1-1/2",NC |
| 7 | 06530401 | 4 | CAPSCREW,SKT/BUT HD,1/2" X 1",NC |
| 8 | 06320127 | 1 | DOOR,SBF50 DD |
| 9 | 06530218 | 4 | CAPSCREW,1/2" X 1-3/4",NC,L9 |
| 10 | 06520211 | 1 | BEARING W/ HOUSING |
| 11 | 31204 | 1 | STRING GUARD |
| --- | 06700123 | 1 | CUTTERSHAFT ASSY (LIGHT BRUSH) |
| ---- | 06700153 | 1 | CUTTERSHAFT ASSY (MEDIUM BRUSH) |
| 12 | 06370124 | 1 | CUTTERSHAFT W/ INSERT |
| 13 | 34786 | 24 | KNIFE MNTG BOLT |
| 14 | 34782 | 24 | KNIFE MNTG CLEVIS (LIGHT BRUSH) |
| --- | 06430122 | 48 | SPACER (MEDIUM BRUSH) |
| 15 | 34780 | 24 | KNIFE (LIGHT BRUSH) |
| --- | 06521007 | 48 | KNIFE (MEDIUM BRUSH) |
| 16 | 6T2419 | 24 | HEX NUT,9/16",STOVER |
| 17 | 41725.01 | 24 | SPACER |
| 18 | 06537030 | 4 | PLOW BOLT,1/2" X 1-3/4",NC,GR8 |
| 19 | 06520190 | 1 | BEARING,DRIVE |
| 20 | 06531005 | 4 | HEX NUT,1/2",NC,L9 |
| 21 | 21631 | 2 | CAPSCREW,3/8" X 1-1/4",NC,GR8 |
| 22 | 22016 | 35 | FLATWASHER,3/8" |
| 23 | 21627 | 2 | NYLOCK NUT,3/8",NC |
| 24 | 06410802 | 2 | SKID SHOE |
| 25 | 6T2270 | 12 | PLOW BOLT,3/8" X 1",NC |
| 26 | 21625 | 26 | HEX NUT,3/8",NC |
| 27 | 21731 | 4 | CAPSCREW,1/2" X 1-1/2",NC |
| 28 | 06320125 | 2 | BRACKET,GROUND ROLLER |
| 29 | 31452 | 1 | AXLE,TIE-ROD |
| 30 | TF1022 | 2 | BEARING,GROUND ROLLER |
| 31 | 6T2330 | 8 | CAPSCREW,SKT HD,7/16" X 1-1/2",NC |
| 32 | 6T1023R | 2 | NYLOCK NUT,1-1/8",NF |
| 33 | TF3405 | 1 | GROUND ROLLER |
| 34 | TB1006A | 2 | FLAP |
| 35 | TB1008 | 1 | FLAP BAR |
| 36 | 21633 | 9 | CAPSCREW,3/8" X 1-3/4",NC,GR8 |
| 37 | 06530402 | 5 | CAPSCREW,SKT/BUT HD,3/8" X 2-3/4",NC |

COMMON SABER

SABER DIRECT DRIVE ASSEMBLY

Parts of this machine are
protected by U.S. Patent
number 7,930,872 B2



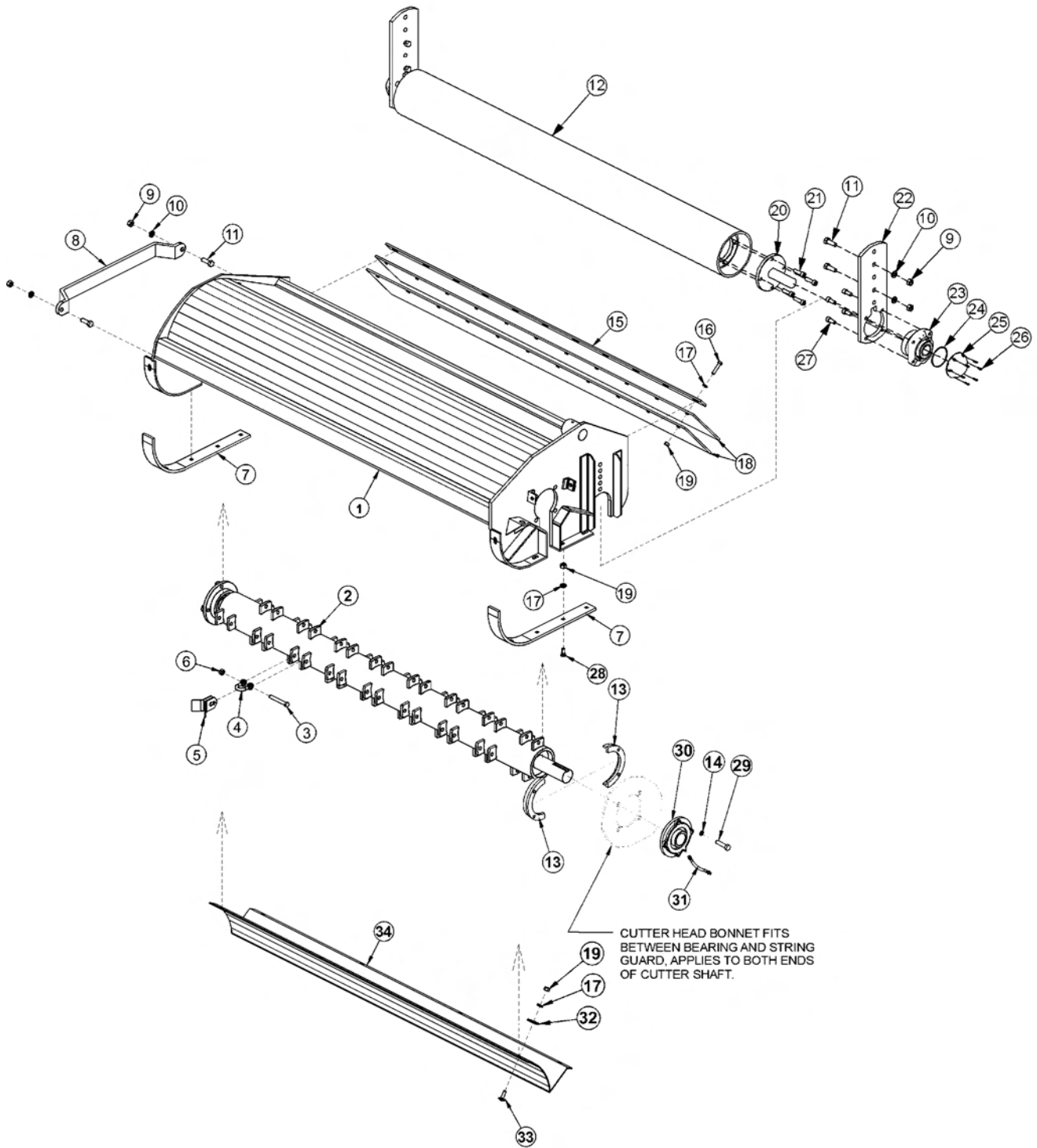
SABER DIRECT DRIVE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| 1 | ----- | - | BONNET *REFER TO BONNET ASSY |
| 2 | 06506040 | 1 | PREFORMED TUBE |
| 3 | TF4852 | 2 | FLANGE KIT |
| 4 | 06530401 | 6 | CAPSCREW,SKT/BUT HD,1/2" X 1",NC |
| 5 | 06320126 | 1 | MOTOR GUARD |
| 6 | 06504003 | 1 | MOTOR,DD |
| 7 | 06500539 | 1 | HOSE,1" X 82" |
| 8 | 06530223 | 4 | CAPSCREW,9/16" X 1-3/4",NC,GR8 |
| 9 | 06533003 | 4 | FLATWASHER,9/16",GR9,SAE |
| 10 | 06505014 | 1 | CLAMP KIT |
| 11 | 06500386 | 1 | HOSE,1" X 52" |
| 12 | 06401418 | 1 | PLATE,CLAMP |
| 13 | 06505017 | 1 | CLAMP KIT,HOSE |

COMMON SABER

63IN FLAIL ASSEMBLY



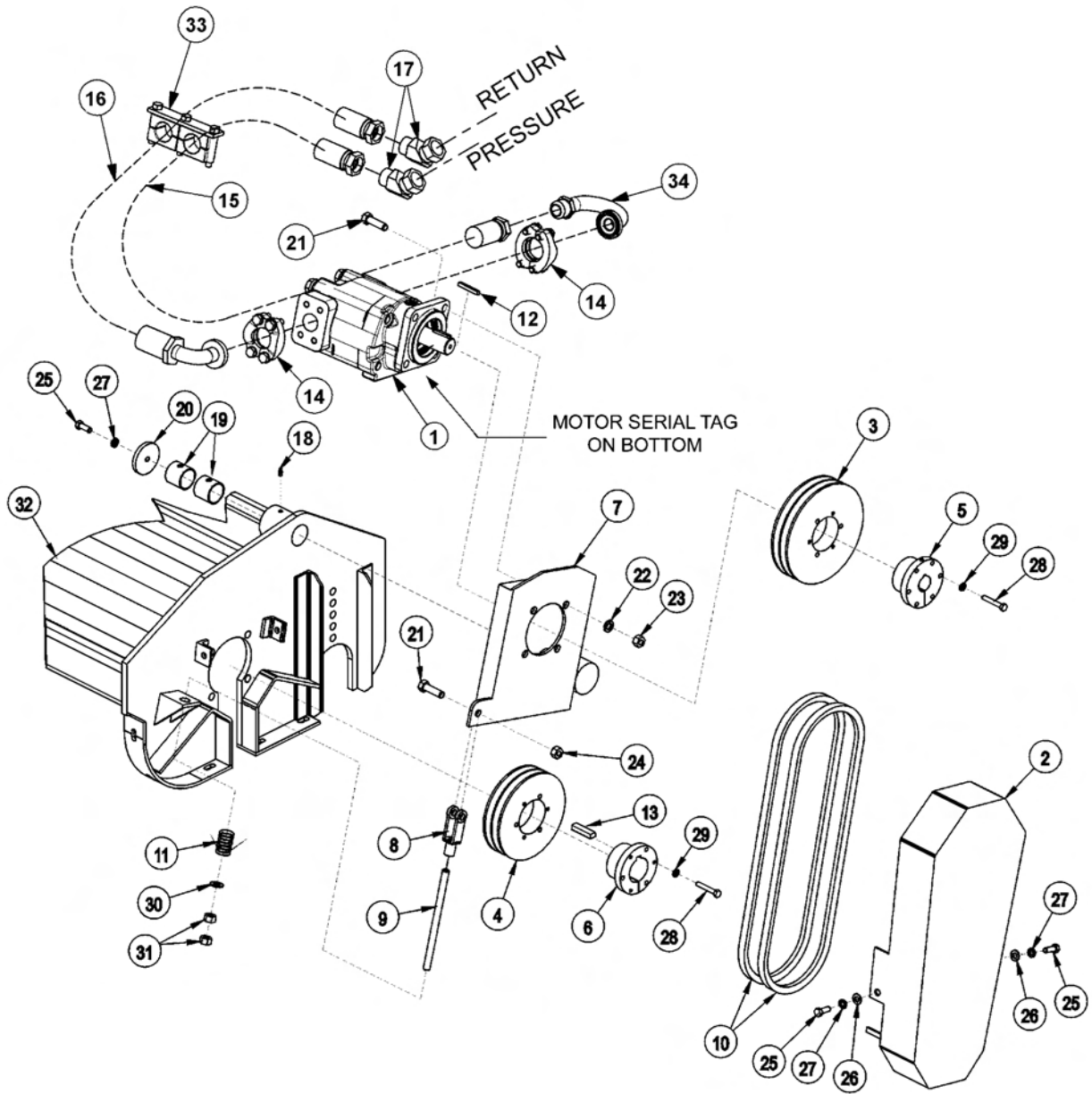
63IN FLAIL ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|---|
| ----- | 06200658 | 1 | FLAIL,BOOM,63",GRASS,CPLT ASSY |
| 1 | 06320110 | 1 | CUTTER HEAD BONNET |
| 2 | 28743 | 1 | CUTTER SHAFT / KNIFE ASSY STANDARD GRASS |
| ----- | 28642C | 1 | CUTTER SHAFT,63",STD |
| 3 | TF1021B | 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",NC |
| 10 | 21990 | 14 | LOCKWASHER,1/2" |
| 11 | 21731 | 6 | CAPSCREW,1/2" X 1-1/2",NC |
| 12 | 28650A | 1 | GROUND ROLLER |
| 13 | 21838 | 1 | CAPSCREW,3/4" X 3-1/2",NC |
| 14 | 21825 | 1 | HEX NUT,3/4",NC |
| 15 | 28700 | 1 | FLAP RETAINING BAR |
| 16 | 21633 | 11 | CAPSCREW,3/8" X 1-3/4",NC |
| 17 | 21988 | 28 | LOCKWASHER,3/8" |
| 18 | 28701 | 2 | DEFLECTOR FLAP |
| 19 | 21625 | 28 | HEX NUT,3/8",NC |
| 20 | TF1045B | 2 | GROUND ROLLER STUB SHAFT |
| 21 | 6T2330 | 8 | CAPSCREW,7/16" X 1-1/2",SKT HD,NC |
| 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" SKT HD,NC |
| 28 | 6T2270 | 10 | PLOW BOLT,3/8" X 1-1/4",NC |
| 29 | 21733 | 8 | CAPSCREW,1/2" X 2",NC |
| 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",NC |
| 34 | 28665A | 1 | BAFFLE (INSIDE UPPER REAR OF CUTTER HEAD) |

COMMON SABER

63IN FLAIL DRIVE ASSEMBLY



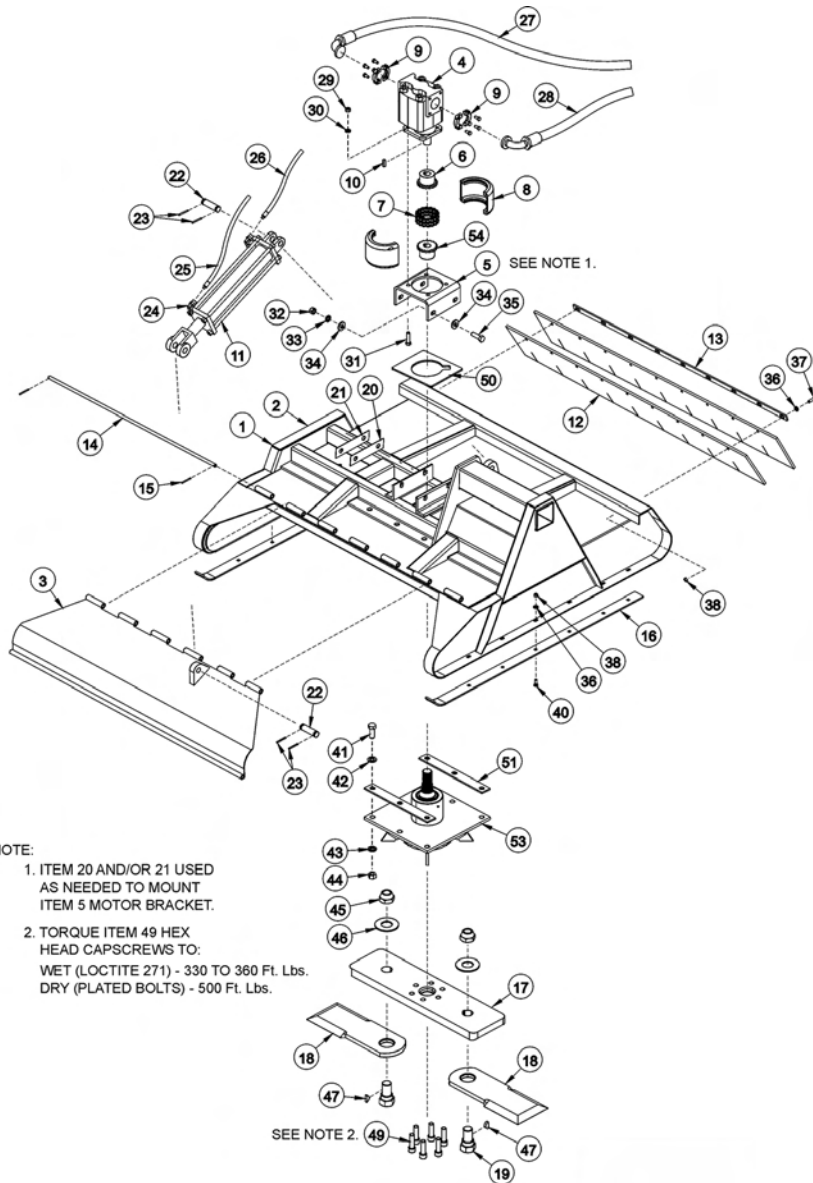
63IN FLAIL DRIVE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------------------|
| 1 | 06504013 | 1 | MOTOR (M350-1 3/4 GEAR) |
| 2 | 28703B | 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 | TF1025 | 1 | SQUARE KEY |
| 14 | TF4852 | 2 | FLANGE KIT |
| 15 | 30308 | 1 | HOSE,1" X 143" (PRESSURE) |
| 16 | 30309 | 1 | HOSE,1" X 143" (RETURN) |
| 17 | 24724 | 2 | SWIVEL FITTING |
| 18 | TF1033 | 1 | GREASE ZERK |
| 19 | 27580 | 1 | BUSHING |
| 20 | 28682 | 1 | MOTOR CHANNEL WASHER |
| 21 | 21732 | 5 | CAPSCREW,1/2" X 1-3/4",NC |
| 22 | 21990 | 5 | LOCKWASHER,1/2" |
| 23 | 21725 | 4 | HEX NUT,1/2",NC |
| 24 | 21727 | 1 | NYLOCK NUT,1/2",NC |
| 25 | 21630 | 3 | CAPSCREW,3/8" X 1",NC |
| 26 | 22016 | 2 | FLATWASHER,3/8" |
| 27 | 21988 | 3 | LOCKWASHER,3/8" |
| 28 | 21584 | 6 | CAPSCREW,5/16" X 2",NC |
| 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 |
| 33 | 35131 | 1 | CLAMP,HOSE |
| 34 | 06506038 | 1 | PREFORMED TUBE |

COMMON SABER

50IN SABER ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------|
| 1 | 33304 | - | ROTARY,SABER 50",ASSY |
| 2 | 32914 | 1 | ROTARY,SABER 50",DECK |
| 3 | 32915 | 1 | SHIELD,50" ROTARY,SABER |
| 4 | 06504012 | 1 | MOTOR |
| 5 | 33198 | 1 | MOTOR MOUNTING BRACKET |
| 6 | 34479 | 1 | SPROCKET,MOTOR |
| 7 | 34482 | 1 | CHAIN COUPLING |
| 8 | 34483 | 1 | COVER COUPLING |
| 9 | TF4852 | 2 | FLANGE KIT |
| 10 | TF1124 | 1 | KEY,WOODRUFF |
| 11 | 33185 | 1 | CYLINDER |

COMMON SABER

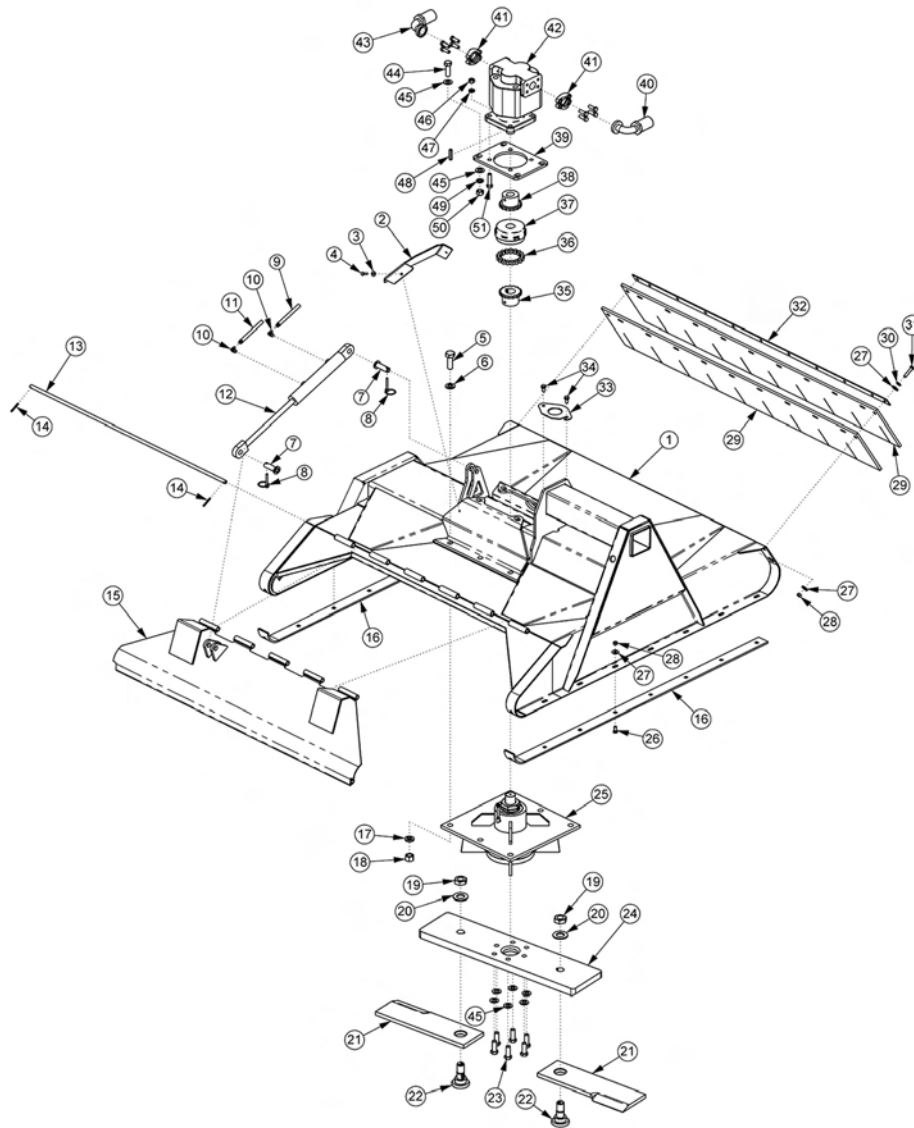
50IN SABER ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---|
| 12 | 32952 | 2 | DEFLECTOR FLAP |
| 13 | 33211 | 1 | RETAINING BAR,FLAP |
| 14 | 32951 | 1 | HINGE PIN,SHIELD |
| 15 | 33924 | 2 | ROLLPIN,HINGE PIN |
| 16 | 32936 | 2 | SKID SHOE |
| 17 | 34509 | 1 | BAR,KNIVE MOUNTING |
| 18 | 33203 | 1 | KNIVES,SET OF 2,ROTARY,3/4" |
| 19 | 34883 | 2 | BOLT,KNIFE |
| 20 | 6T0822 | 3 | SHIM,MOTOR MOUNT,THIN |
| 21 | 6T0822A | 3 | SHIM,MOTOR MOUNT,THICK |
| 22 | TB1033 | 2 | CLEVIS PIN |
| 23 | 06537021 | 4 | ROLL PIN,CLEVIS |
| 24 | 3334306 | 2 | ELBOW,3/8MP X 3/8MJ90 |
| 25 | 33223 | 1 | HOSE,CYLINDER,3/8" X 70" |
| 26 | 33222 | 1 | HOSE,CYLINDER,3/8" X 59" |
| 27 | 33548 | 1 | HOSE,MOTOR - RETURN (BLUE DECAL STRIP) |
| 28 | 33549 | 1 | HOSE,MOTOR - PRESSRUE (RED DECAL STRIP) |
| 29 | 21725 | 4 | HEX NUT,1/2",NC |
| 30 | 21990 | 4 | LOCK WASHER,1/2" |
| 31 | 21733 | 4 | CAPSCREW,1/2" X 2",NC |
| 32 | 6T2408 | 4 | HEX NUT,5/8",NF |
| 33 | 21992 | 4 | LOCK WASHER,5/8" |
| 34 | 33764 | 8 | FLAT WASHER,5/8" |
| 35 | 6T2290 | 4 | CAPSCREW,5/8" X 2",NF |
| 36 | 22016 | 25 | FLAT WASHER,3/8" |
| 37 | 21633 | 9 | CAPSCREW,3/8" X 1-3/4",NC |
| 38 | 21625 | 25 | HEX NUT,3/8",NC |
| 40 | 6T2270 | 14 | PLOW BOLT,3/8" X 1",NC |
| 41 | 33879 | 6 | CAPSCREW,3/4" X 2-1/2",NF |
| 42 | 33880 | 6 | FLAT WASHER,3/4" |
| 43 | 21993 | 6 | LOCK WASHER,3/4" |
| 44 | 6T2413 | 6 | HEX NUT,3/4",NF |
| 45 | 33860 | 2 | HEX NUT,KNIFE |
| 46 | 33859 | 2 | FLAT WASHER,KNIFE |
| 47 | PT209 | 2 | KEY,WOODRUFF |
| 49 | 34475 | 6 | HEX HD CAPSCREW,3/4" X 2",NF |
| 50 | 33614 | 1 | PLATE,SPINDLE COLLAR |
| 51 | 33617 | 2 | SHIM,STRAP,SPINDLE |
| 53 | 33219 | 1 | SPINDLE |
| 54 | ----- | - | SPROCKET *REFER TO SPINDLE PARTS |
| --- | 33891 | - | KIT,KNIVES (INCLUDES ITEMS 18,19,39,45,46,47) |

COMMON SABER

50IN SABER MB ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| --- | 06741036 | - | ROTARY,SABER,ASSY |
| 1 | 06320009 | 1 | ROTARY,SABER,DECK |
| 2 | 06410439 | 1 | COVER,MOTOR MNT |
| 3 | 22014 | 2 | FLATWASHER,1/4" |
| 4 | 21530 | 2 | CAPSCREW,1/4" X 1",NC |
| 5 | 33879 | 6 | CAPSCREW,3/4" X 2-1/4",NF,GR 8 |
| 6 | 33880 | 6 | FLATWASHER,3/4",GR 8,SAE |
| 7 | 33984 | 2 | PIN,SHIELD,50" |
| 8 | RD1032 | 2 | PIN,LYNCH,1/4" X 2" |
| 9 | 06500366 | 1 | HOSE,3/8" X 98" |
| 10 | 32810 | 2 | ELBOW,1/2" X 3/8" |
| 11 | 06500670 | 1 | HOSE,3/8" X 108" |

COMMON SABER

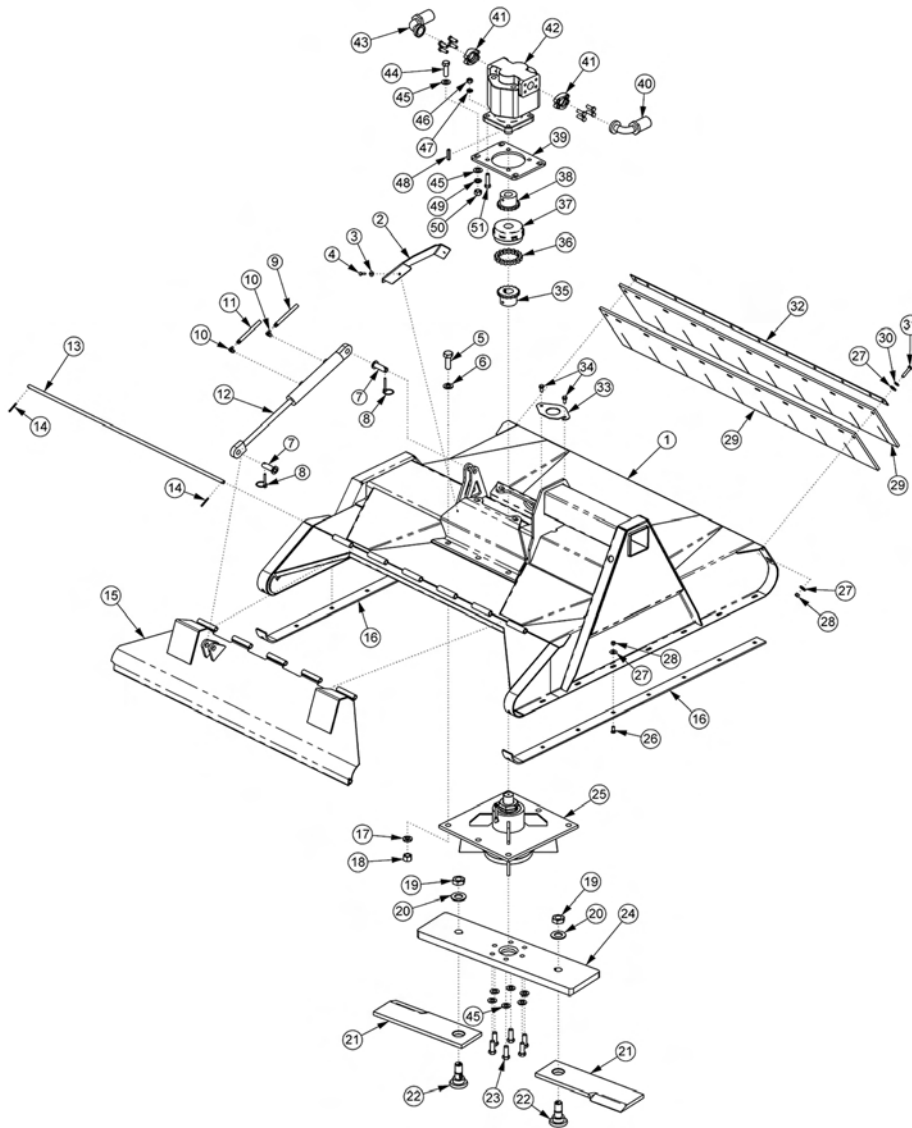
50IN SABER MB ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 12 | 33785 | 1 | CYL,1-1/2 X 8" |
| 13 | 33778 | 1 | HINGE PIN,50" RTRY |
| 14 | 6T3017 | 2 | ROLLPIN,3/16" X 1" |
| 15 | 33754 | 1 | SHIELD,50" RTRY |
| 16 | 33777 | 2 | SKID SHOE,50" RTRY |
| 17 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 18 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 19 | 6T1023R | 2 | KNIFE MTG NUT,1-1/8",NF,GR8 |
| 20 | 06533002 | 2 | FLATWASHER,1-1/8",GR8 |
| 21 | 06521001 | 2 | KNIFE,TRB 50,5/8" |
| 22 | 06538000 | 2 | KNIFE MTG BOLT,5/8",SHOULDER |
| 23 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF,GR8 |
| 24 | 06400388 | 1 | BAR,BLADE,TRB |
| 25 | 6T1024H5 | 1 | SPINDLE |
| 26 | 6T2270 | 16 | PLOW BOLT,3/8" X 1",NC,GR5 |
| 27 | 22016 | 29 | FLATWASHER,3/8" |
| 28 | 21625 | 29 | HEX NUT,3/8",NC |
| 29 | 33775 | 2 | FLAP,50" RTRY |
| 30 | 21988 | 13 | LOCKWASHER,3/8" |
| 31 | 21633 | 13 | CAPSCREW,3/8" X 1-3/4",NC |
| 32 | 33774 | 1 | FLAP RETAINER,50" RTRY |
| 33 | 33779 | 1 | PLATE,COVER,KNF HOLE |
| 34 | 33881 | 2 | CAPSCREW,FLG,3/8" X 3/4",NC |
| 35 | ----- | - | SPROCKET *REFER TO SPINDLE PARTS |
| 36 | 6T1029 | 1 | CHAIN,COUPLING (5016) |
| 37 | 6T1033 | 1 | COVER,COUPLING |
| 38 | 21223 | 1 | SPROKET,1-1/4" BORE |
| 39 | 33776 | 1 | MOTOR MOUNT,PLATE,50" RTRY |
| 40 | 06500495 | 1 | HOSE - PRESSURE (RED DECAL STRIP) |
| 41 | TF4852 | 2 | KIT,FLANGE #20 |
| 42 | 06504012 | 1 | MOTOR,(M365-1-1/2" GEAR) |
| 43 | 06500669 | 1 | HOSE - RETURN (BLUE DECAL STRIP) |
| 44 | 6T2290 | 4 | CAPSCREW,5/8" X 2",NF,GR 8 |
| 45 | 33764 | 14 | FLATWASHER,5/8",GR 8,SAE |
| 46 | 21725 | 4 | HEX NUT,1/2" NC |
| 47 | 21990 | 4 | LOCKWASHER,1/2" |
| 48 | TF1124 | 1 | KEY,WOODRUFF |
| 49 | 21992 | 4 | LOCKWASHER,5/8" |
| 50 | 6T2408 | 4 | HEX NUT,5/8",NF |
| 51 | 21733 | 4 | CAPSCREW,1/2" X 2",NC |
| 52 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF,GR 8 |

COMMON SABER

50IN SABER XB ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| --- | 06741036 | - | ROTARY,SABER XB,ASSY |
| 1 | 06320009 | 1 | ROTARY,SABER XB,DECK |
| 2 | 06410439 | 1 | COVER,MOTOR MNT |
| 3 | 22014 | 2 | FLATWASHER,1/4" |
| 4 | 21530 | 2 | CAPSCREW,1/4" X 1",NC |
| 5 | 33879 | 6 | CAPSCREW,3/4" X 2-1/4",NF,GR 8 |
| 6 | 33880 | 6 | FLATWASHER,3/4",GR 8,SAE |
| 7 | 33984 | 2 | PIN,SHIELD,50" |
| 8 | RD1032 | 2 | PIN,LYNCH,1/4" X 2" |
| 9 | 06500291 | 1 | HOSE,3/8" X 74" |
| 10 | 32810 | 2 | ELBOW,1/2" X 3/8" |
| 11 | 06500292 | 1 | HOSE,3/8" X 85" |

COMMON SABER

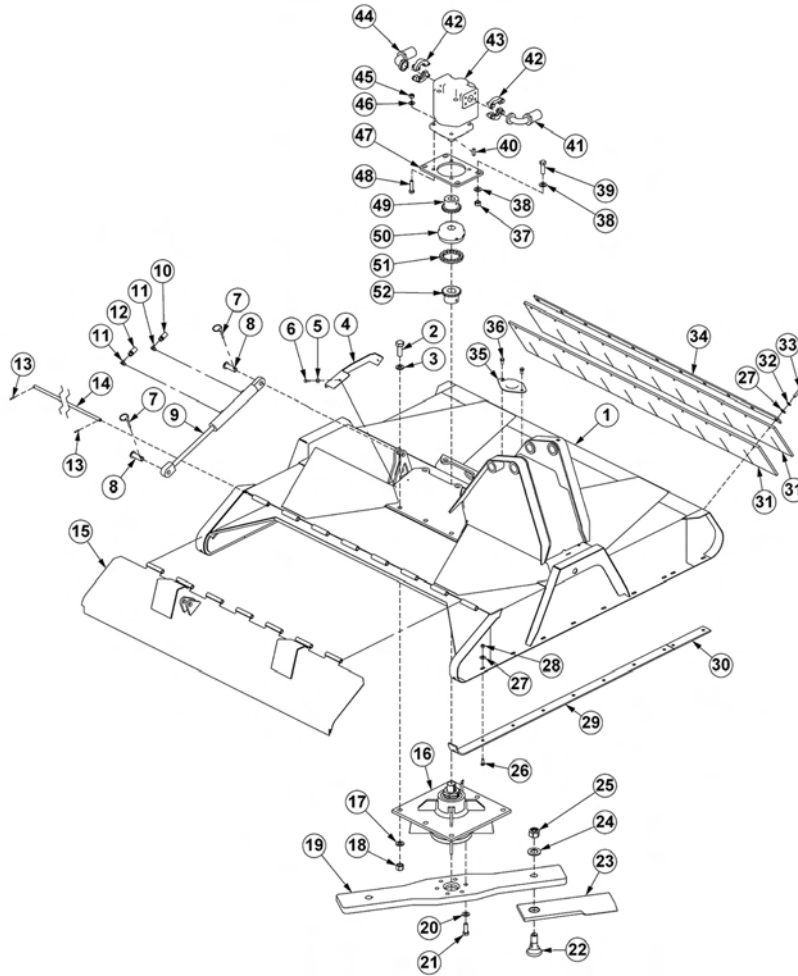
50IN SABER XB ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------------|
| 12 | 33785 | 1 | CYL,1-1/2 X 8" |
| 13 | 33778 | 1 | HINGE PIN,50" RTRY |
| 14 | 6T3017 | 2 | ROLLPIN,3/16" X 1" |
| 15 | 33754 | 1 | SHIELD,50" RTRY |
| 16 | 33777 | 2 | SKID SHOE,50" RTRY |
| 17 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 18 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 19 | 6T1023R | 2 | KNIFE MTG NUT,1-1/8",NF,GR8 |
| 20 | 06533002 | 2 | FLATWASHER,1-1/8",GR8 |
| 21 | 06521001 | 2 | KNIFE,TRB 50,5/8" |
| 22 | 06538000 | 2 | KNIFE MTG BOLT,5/8",SHOULDER |
| 23 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF,GR8 |
| 24 | 06400388 | 1 | BAR,BLADE,TRB |
| 25 | 6T1024H5 | 1 | SPINDLE |
| 26 | 6T2270 | 16 | PLOW BOLT,3/8" X 1",NC,GR5 |
| 27 | 22016 | 29 | FLATWASHER,3/8" |
| 28 | 21625 | 29 | HEX NUT,3/8",NC |
| 29 | 33775 | 2 | FLAP,50" RTRY |
| 30 | 21988 | 13 | LOCKWASHER,3/8" |
| 31 | 21633 | 13 | CAPSCREW,3/8" X 1-3/4",NC |
| 32 | 33774 | 1 | FLAP RETAINER,50" RTRY |
| 33 | 33779 | 1 | PLATE,COVER,KNF HOLE |
| 34 | 33881 | 2 | CAPSCREW,FLG,3/8" X 3/4",NC |
| 35 | ----- | - | SPROCKET *REFER TO SPINDLE PARTS |
| 36 | 6T1029 | 1 | CHAIN,COUPLING (5016) |
| 37 | 6T1033 | 1 | COVER,COUPLING |
| 38 | 21223 | 1 | SPROKET,1-1/4" BORE |
| 39 | 33776 | 1 | MOTOR MOUNT,PLATE,50" RTRY |
| 40 | 33549 | 1 | HOSE - PRESSURE (RED DECAL STRIP) |
| 41 | TF4852 | 2 | KIT,FLANGE #20 |
| 42 | 06504012 | 1 | MOTOR,(M365-1-1/2" GEAR) |
| 43 | 33548 | 1 | HOSE - RETURN (BLUE DECAL STRIP) |
| 44 | 6T2290 | 4 | CAPSCREW,5/8" X 2",NF,GR 8 |
| 45 | 33764 | 14 | FLATWASHER,5/8",GR 8,SAE |
| 46 | 21725 | 4 | HEX NUT,1/2" NC |
| 47 | 21990 | 4 | LOCKWASHER,1/2" |
| 48 | TF1124 | 1 | KEY,WOODRUFF |
| 49 | 21992 | 4 | LOCKWASHER,5/8" |
| 50 | 6T2408 | 4 | HEX NUT,5/8",NF |
| 51 | 21733 | 4 | CAPSCREW,1/2" X 2",NC |
| 52 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF,GR 8 |

COMMON SABER

60IN SABER ROTARY MOWER



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------|
| --- | 06741072 | - | ROTARY,SABER 60",ASSY |
| 1 | 06320169 | 1 | ROTARY,SABER 60",DECK |
| 2 | 33879 | 6 | CAPSCREW, 3/4" X 2-1/4",NF GR 8 |
| 3 | 33880 | 6 | FLATWASHER,3/4",GR 8,SAE |
| 4 | 06410439 | 1 | COVER,MOTOR MNT |
| 5 | 22014 | 2 | FLATWASHER,1/4" |
| 6 | 21530 | 2 | CAPSCREW,1/4" X 1",NC |
| 7 | RD1032 | 2 | PIN,LYNCH,1/4" X 2" |
| 8 | 33984 | 2 | PIN,SHIELD |
| 9 | 33785 | 1 | CYL,1-1/2" X 8" |
| 10 | 06500292 | 1 | HOSE,3/8" X 85" |
| --- | 06500389 | 1 | HOSE,3/8" X 88" (SABER MB) |
| 11 | 32810 | 2 | ELBOW,1/2" X 3/8" |
| 12 | 06500384 | 1 | HOSE,3/8" X 94" |
| --- | 06500366 | 1 | HOSE,3/8" X 98" (SABER MB) |
| 13 | 6T3017 | 2 | ROLLPIN,3/16" X 1" |

COMMON SABER

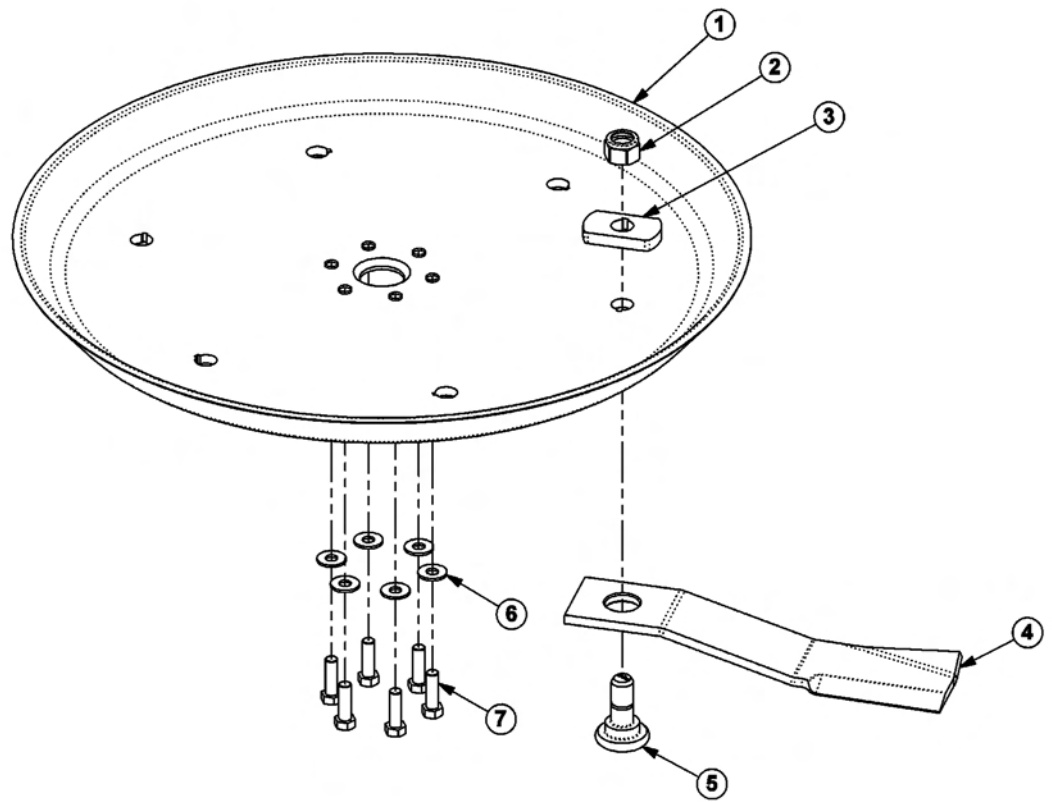
60IN SABER ROTARY MOWER

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| 14 | 06420139 | 1 | HINGE PIN,60" RTRY |
| 15 | 06320162 | 1 | SHIELD,60" RTRY |
| 16 | 6T1024H5 | 1 | SPINDLE |
| 17 | 21993 | 6 | LOCKWASHER,3/4",GR 8 |
| 18 | 6T2413 | 6 | HEX NUT,3/4",NF,GR 8 |
| 19 | 06400690 | 1 | BAR,BLADE,60" RTRY |
| 20 | 33764 | 6 | FLATWASHER,5/8",GR 8,SAE |
| 21 | 6T2259 | 6 | CAPSCREW,5/8" X 1-3/4",NF,GR 8 |
| 22 | 06538000 | 2 | KNIFE MTG BOLT,5/8" SHOULDER |
| 23 | 06521001 | 2 | KNIFE,TRB50,5/8" |
| 24 | 06533002 | 2 | FLATWASHER,1-1/8",GR 8 |
| 25 | 6T1023R | 2 | KNIFE MTG NUT,1-1/8",NF,GR 8 |
| 26 | 6T2270 | 20 | PLOW BOLT,3/8" X 1",NC,GR5 |
| 27 | 22016 | 31 | FLATWASHER,3/8" |
| 28 | 21625 | 20 | HEX NUT,3/8",NC |
| 29 | 33777 | 2 | SKID SHOE,50" RTRY |
| 30 | 06401245 | 2 | SKID SHOE,60" RTRY |
| 31 | 06520238 | 2 | FLAP,DEFLECTOR,60" RTRY |
| 32 | 21988 | 11 | LOCKWASHER,3/8" |
| 33 | 21633 | 11 | CAPSCREW,3/8" X 1-3/4",NC |
| 34 | 6T0823 | 1 | FLAP RETAINER,60" RTRY |
| 35 | 33779 | 1 | PLATE,COVER,KNF HOLE |
| 36 | 33881 | 2 | CAPSCREW,FLG,3/8" X 3/4",NC |
| 37 | 6T2408 | 4 | HEX NUT,5/8",NF |
| 38 | 33764 | 8 | FLATWASHER,5/8",GR 8,SAE |
| 39 | 6T2290 | 4 | CAPSCREW,5/8" X 2",NF,GR 8 |
| 40 | TF1124 | 1 | KEY,WOODRUFF |
| 41 | 33549 | 1 | HOSE - PRESSURE (RED DECAL STRIP) |
| --- | 33548 | 1 | HOSE - PRESSURE (SABER MB) (RED DECAL STRIP) |
| 42 | TF4852 | 2 | KIT,FLANGE #20 |
| 43 | 06504011 | 1 | MOTOR,(M365-2-1/4" GEAR) |
| 44 | 33548 | 1 | HOSE - RETURN (BLUE DECAL STRIP) |
| --- | 06500495 | 1 | HOSE - RETURN (SABER MB) (BLUE DECAL STRIP) |
| 45 | 21727 | 4 | NYLOCK NUT,1/2",NC |
| 46 | 06533004 | 4 | FLATWASHER,1/2",GR 8,SAE |
| 47 | 33776 | 1 | MOTOR MOUNT,PLATE,50" RTRY |
| 48 | 21733 | 4 | CAPSCREW,1/2" X 2",NC |
| 49 | 21223 | 1 | SPROCKET,1-1/4" BORE |
| 50 | 6T1033 | 1 | COVER,COUPLING |
| 51 | 6T1029 | 1 | CHAIN,COUPLING (5016) |
| 52 | ----- | - | SPROCKET *REFER TO SPINDLE PARTS |

COMMON SABER

60IN ROTARY KNIFE AND DISH OPTION



60IN ROTARY KNIFE AND DISH OPTION

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 34876 | 1 | BLADE MOUNTING DISK |
| 2 | 6T1023R | 2 | NYLOCK NUT,1-1/8" |
| 3 | 34878 | 2 | SPACER |
| 4 | 34497 | 2 | KNIFE MOUNTING BOLT |
| 5 | 34684 | 2 | GRASS KNIFE |
| 6 | 33764 | 6 | FLATWASHER |
| 7 | 6T2259 | 6 | CAPSCREW |
| --- | 27167 | 1 | BOLT KIT (INCLUDES ITEMS 6 & 7) |
| ---- | 6T1825 | 1 | LOCTITE - USED ON ALL DISK MOUNTING BOLTS |
| --- | 33893 | 1 | KNIFE KIT (INCLUDES ITEMS 2, 4 & 5) |

COMMON SABER

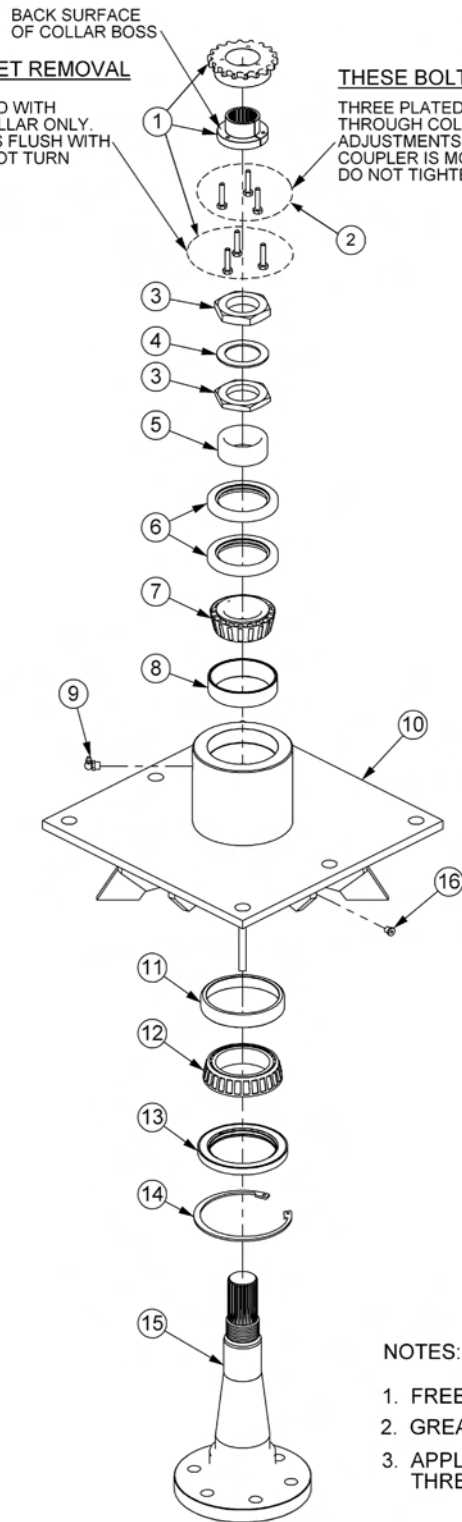
SABER SPINDLE ASSEMBLY

THESE BOLTS ARE FOR SPROCKET REMOVAL

THREE BLACK COLORED BOLTS SUPPLIED WITH TAPERLOCK BEARING. THREAD INTO COLLAR ONLY. TURN BOLTS INTO COLLAR UNTIL BOLT IS FLUSH WITH BACK SURFACE OF COLLAR BOSS. DO NOT TURN IN ANY FURTHER OR TIGHTEN.

THESE BOLTS ARE FOR ASSEMBLY

THREE PLATED BOLTS. THESE BOLTS SLIP THROUGH COLLAR AND THREAD INTO SPROCKET. ADJUSTMENTS ARE REQUIRED WHEN CHAIN COUPLER IS MOUNTED TO SPINDLE ASSEMBLY. DO NOT TIGHTEN BOLTS UNTIL THAT TIME.



NOTES:

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

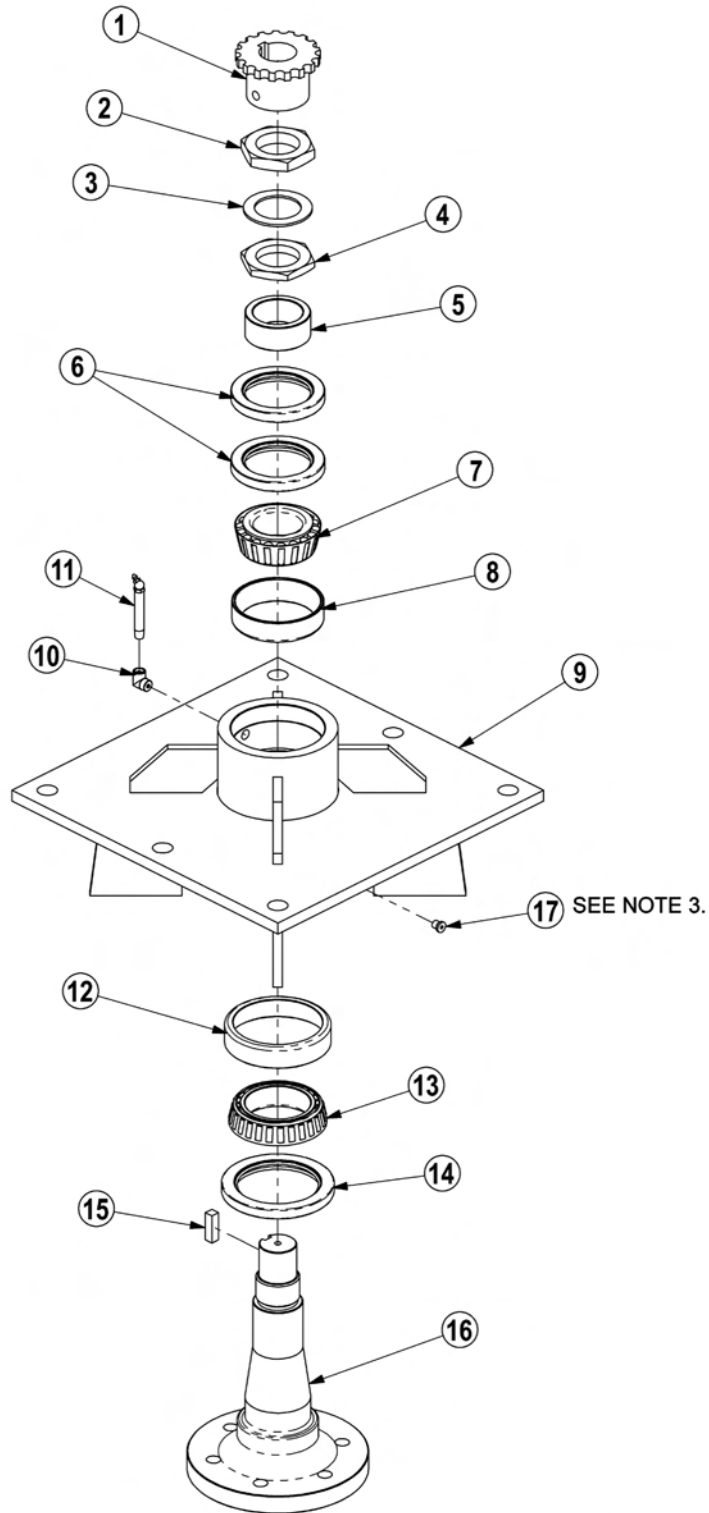
SABER SPINDLE ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------|
| --- | 33219 | - | SPINDLE ASSY,ROTARY |
| 1 | 34480 | 1 | TAPERLOCK SPROCKET |
| 2 | 21530 | 3 | CAPSCREW,1/4" X 1",NC |
| 3 | 6T1015 | 2 | BEARING LOCK NUT,THIN |
| 4 | 22596 | 1 | JAMWASHER |
| 5 | 6T1014 | 1 | BEARING ADJUST SLEEVE |
| 6 | 6T1011 | 2 | UPPER SEAL,SMALL |
| 7 | 6T1012 | 1 | BEARING CONE,SMALL |
| 8 | 6T1013 | 1 | BEARING CUP,SMALL |
| 9 | 6T3210 | 1 | GREASE ZERK |
| 10 | 32953 | 1 | SPINDLE HOUSING,SABER |
| 11 | 33200 | 1 | BEARING CUP,LARGE |
| 12 | 33199 | 1 | BEARING CONE,LARGE |
| 13 | 33201 | 1 | LOWER SEAL,LARGE |
| 14 | 33202 | 1 | SNAP RING |
| 15 | 33186 | 1 | SPINDLE,SABER |
| 16 | 06503064 | 1 | O-RING PLUG,1/8" |

COMMON SABER

SABER XB & 60IN SPINDLE ASSY



NOTES:

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

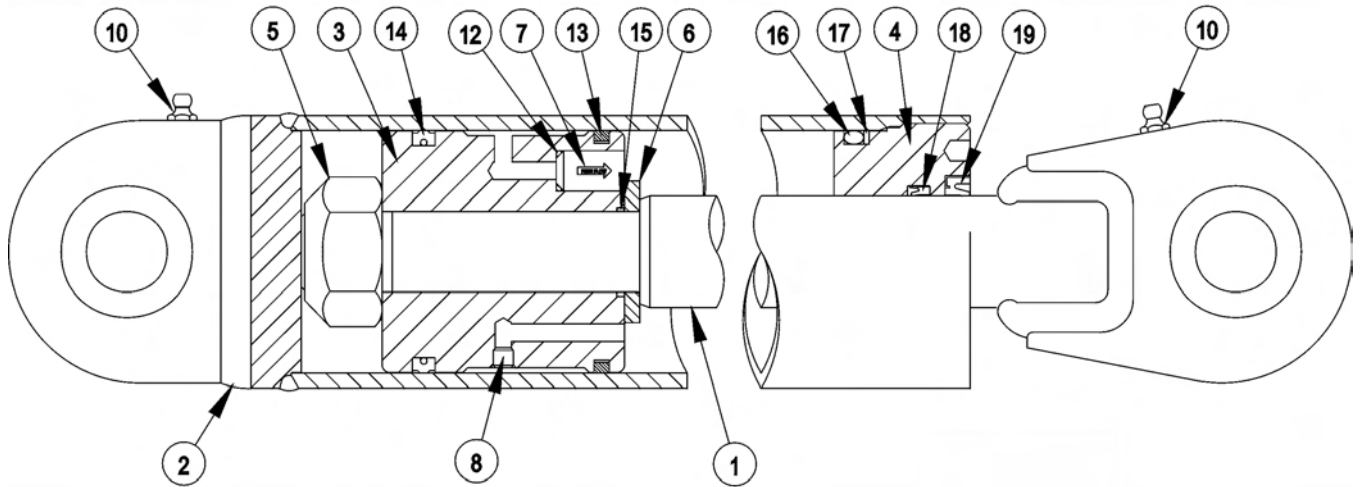
SABER XB & 60IN SPINDLE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|---|
| --- | 6T1024H5 | - | SPINDLE ASSEMBLY |
| 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 (ITEMS 2 THRU 8 & 12 THRU 15) |

COMMON SABER

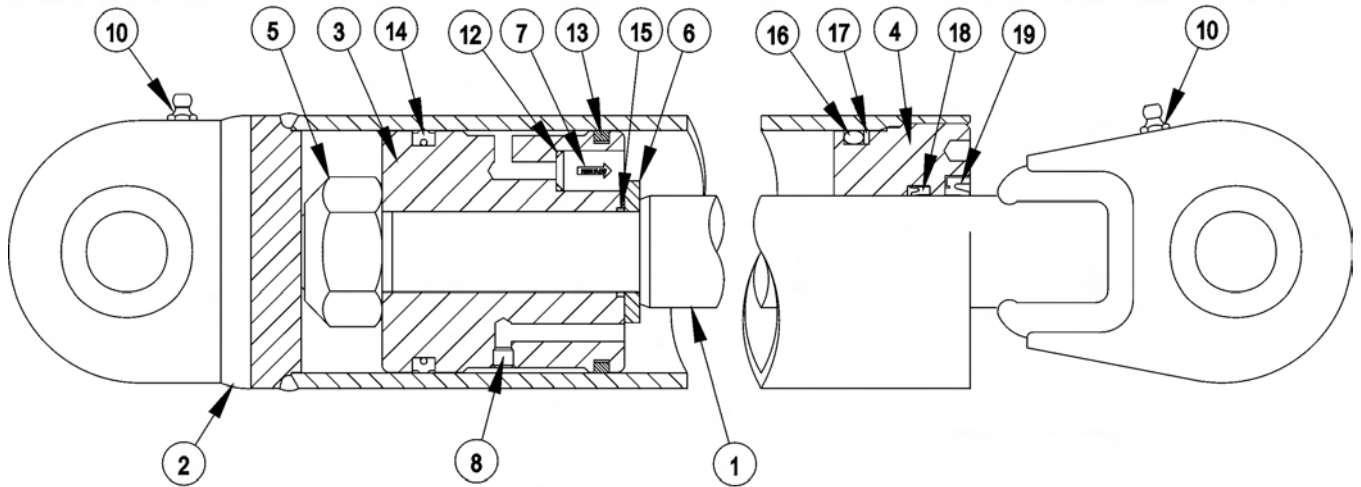
3IN X 17-1/2IN WELDED CYLINDER BREAKDOWN



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

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 33705 | - | CYLINDER,WELDED,3" X 17-1/2" |
| 1 | 34571 | 1 | PISTON ROD ASSY |
| 2 | 34572 | 1 | BUTT & TUBE ASSY |
| 3 | 34573 | 1 | PISTON |
| 4 | 34574 | 1 | GLAND |
| 5 | 34575 | 1 | LOCK NUT,1"-14 UNS (TORQUE TO 315 FT.LB.) |
| 6 | 34576 | 1 | SPACER |
| 7 | 34577 | 1 | CHECK VALVE,KEPNER |
| 8 | 34578 | 1 | ORIFICE |
| 9 | 33761 | 1 | SEAL KIT,PACKING (ITEMS 12 THRU 19) |
| 10 | ----- | 2 | GREASE ZERK |
| 12 | ----- | 1 | O - RING |
| 13 | ----- | 1 | CAST IRON PISTON RING |
| 14 | ----- | 1 | CROWN SEAL |
| 15 | ----- | 1 | O - RING |
| 16 | ----- | 1 | O - RING |
| 17 | ----- | 1 | BACK - UP WASHER |
| 18 | ----- | 1 | U - CUP |
| 19 | ----- | 1 | WIPER |
| 20 | 34334 | - | SPHERICAL BEARING (NOT SHOWN) |

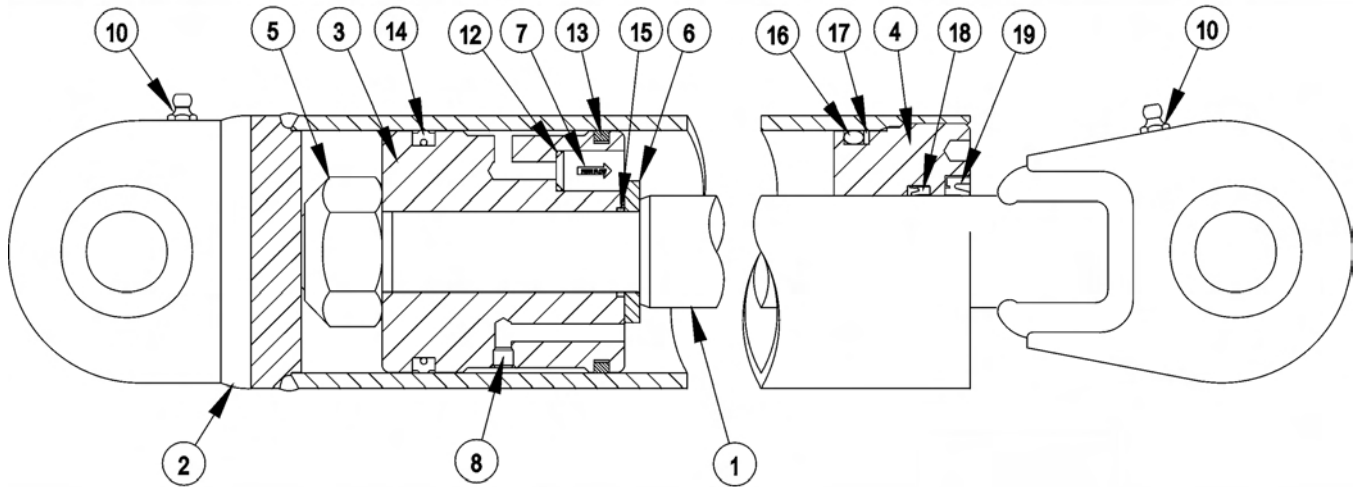
4IN X 15IN WELDED CYLINDER BREAKDOWN



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

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 32365 | - | CYLINDER,WELDED,4" X 15" |
| 1 | 34580 | 1 | PISTON ROD ASSY |
| 2 | 34581 | 1 | BUTT & TUBE ASSY |
| 3 | 34582 | 1 | PISTON |
| 4 | 34583 | 1 | GLAND |
| 5 | 34584 | 1 | LOCK NUT,1-1/4"-12 UNF (TORQUE TO 510 FT.LB.) |
| 9 | 33757 | 1 | SEAL KIT,PACKING (ITEMS 12 THRU 19) |
| 10 | ----- | 2 | GREASE ZERK |
| 12 | ----- | 1 | O - RING |
| 13 | ----- | 1 | CAST IRON PISTON RING |
| 14 | ----- | 1 | CROWN SEAL |
| 15 | ----- | 1 | O - RING |
| 16 | ----- | 1 | O - RING |
| 17 | ----- | 1 | BACK - UP WASHER |
| 18 | ----- | 1 | U - CUP |
| 19 | ----- | 1 | WIPER |
| 20 | 34335 | - | SPHERICAL BEARING (NOT SHOWN) |

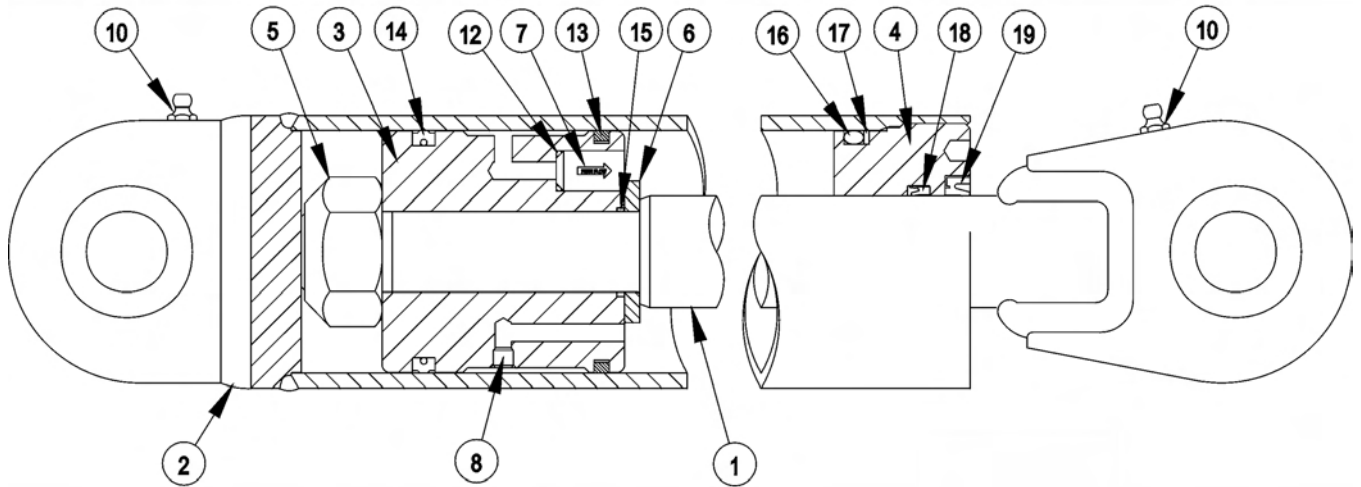
4-1/2IN X 26-1/2IN WELDED CYLINDER BREAKDOWN



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

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 32364 | - | CYLINDER,WELDED,4-1/2" X 26-1/2" |
| 1 | 34586 | 1 | PISTON ROD ASSY |
| 2 | 34587 | 1 | BUTT & TUBE ASSY |
| 3 | 34588 | 1 | PISTON |
| 4 | 34589 | 1 | GLAND |
| 5 | 34590 | 1 | LOCK NUT,1-1/4"-12 UNF (TORQUE TO 510 FT.LB.) |
| 9 | 33758 | 1 | SEAL KIT,PACKING (ITEMS 12 THRU 19) |
| 10 | ----- | 2 | GREASE ZERK |
| 12 | ----- | 1 | O - RING |
| 13 | ----- | 1 | CAST IRON PISTON RING |
| 14 | ----- | 1 | CROWN SEAL |
| 15 | ----- | 1 | O - RING |
| 16 | ----- | 1 | O - RING |
| 17 | ----- | 1 | BACK - UP WASHER |
| 18 | ----- | 1 | U - CUP |
| 19 | ----- | 1 | WIPER |
| 20 | 34335 | - | SPHERICAL BEARING (NOT SHOWN) |

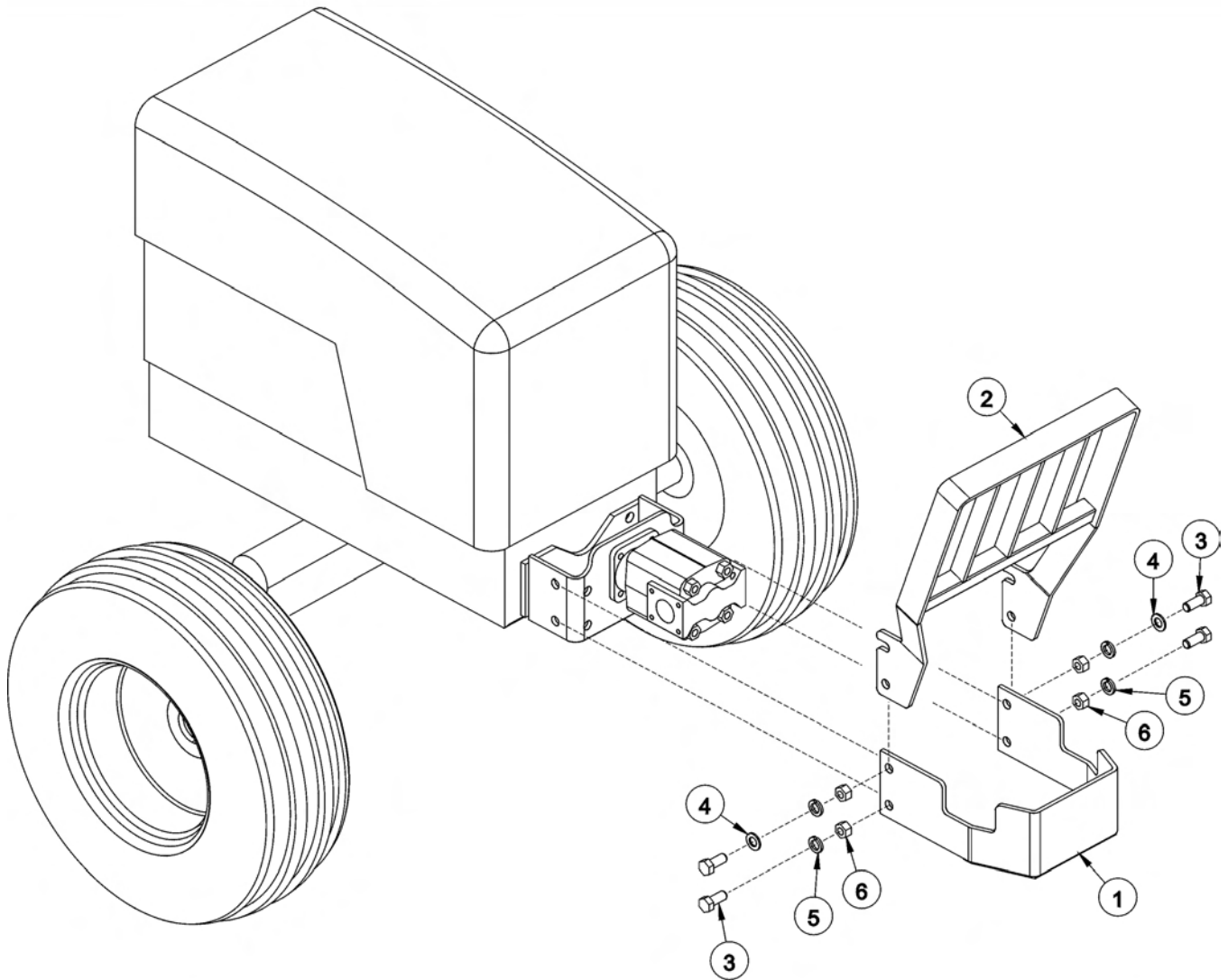
5IN X 25IN WELDED CYLINDER BREAKDOWN



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

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 32363 | - | CYLINDER,WELDED,5" X 25" |
| 1 | 34592 | 1 | PISTON ROD ASSY |
| 2 | 34593 | 1 | BUTT & TUBE ASSY |
| 3 | 34594 | 1 | PISTON |
| 4 | 34595 | 1 | GLAND |
| 5 | 34596 | 1 | LOCK NUT,1-3/4"-12 UNF (TORQUE TO 1800 - 2000 FT.LB.) |
| 7 | 34597 | 1 | CHECK VALVE,KEPNER |
| 8 | 34598 | 1 | ORIFICE |
| 9 | 33759 | 1 | SEAL KIT,PACKING (ITEMS 12 THRU 19) |
| 10 | ----- | 2 | GREASE ZERK |
| 12 | ----- | 1 | O - RING |
| 13 | ----- | 1 | CAST IRON PISTON RING |
| 14 | ----- | 1 | CROWN SEAL |
| 15 | ----- | 1 | O - RING |
| 16 | ----- | 1 | O - RING |
| 17 | ----- | 1 | BACK - UP WASHER |
| 18 | ----- | 1 | U - CUP |
| 19 | ----- | 1 | WIPER |
| 20 | 34335 | - | SPHERICAL BEARING (NOT SHOWN) |

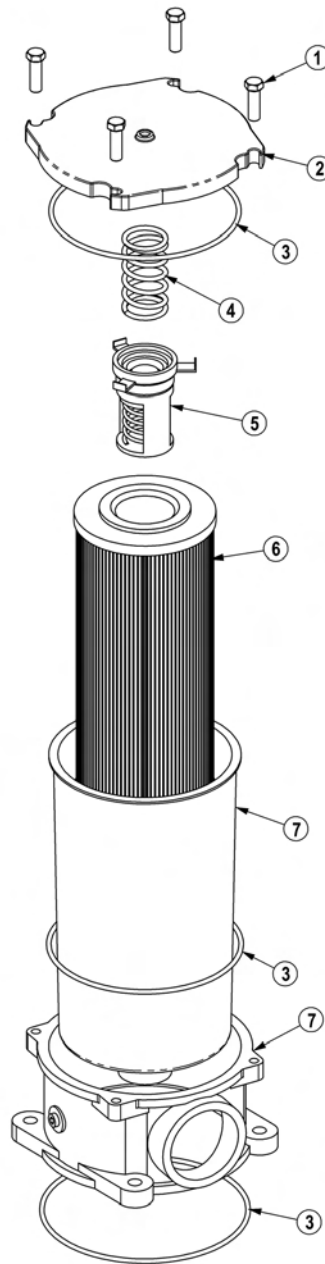
PUMP AND GRILL GUARD OPTIONS



| 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 SABER

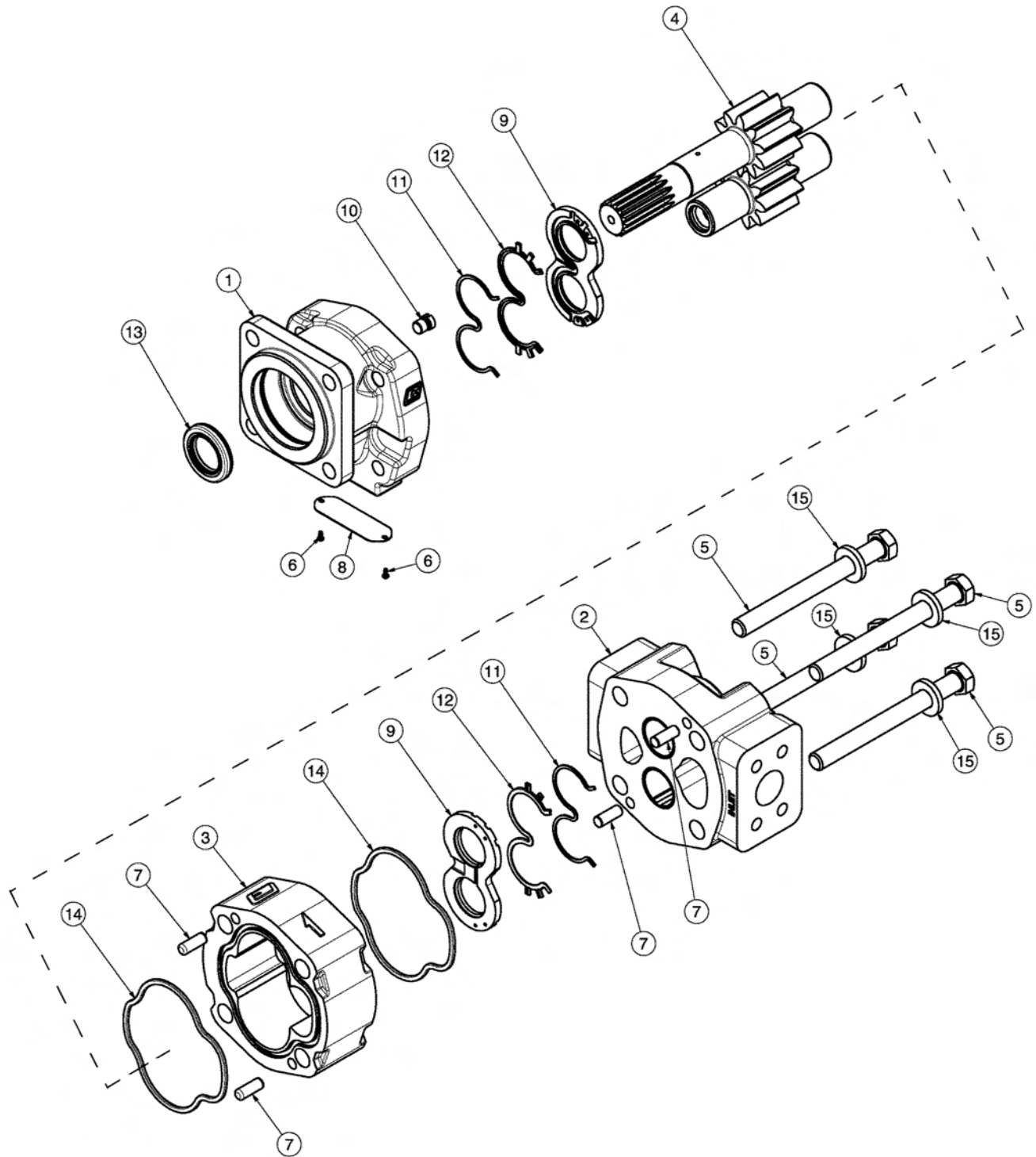
RESERVOIR TANK FILTER ASSEMBLY



| 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 SABER

FRONT HYDRAULIC PUMP

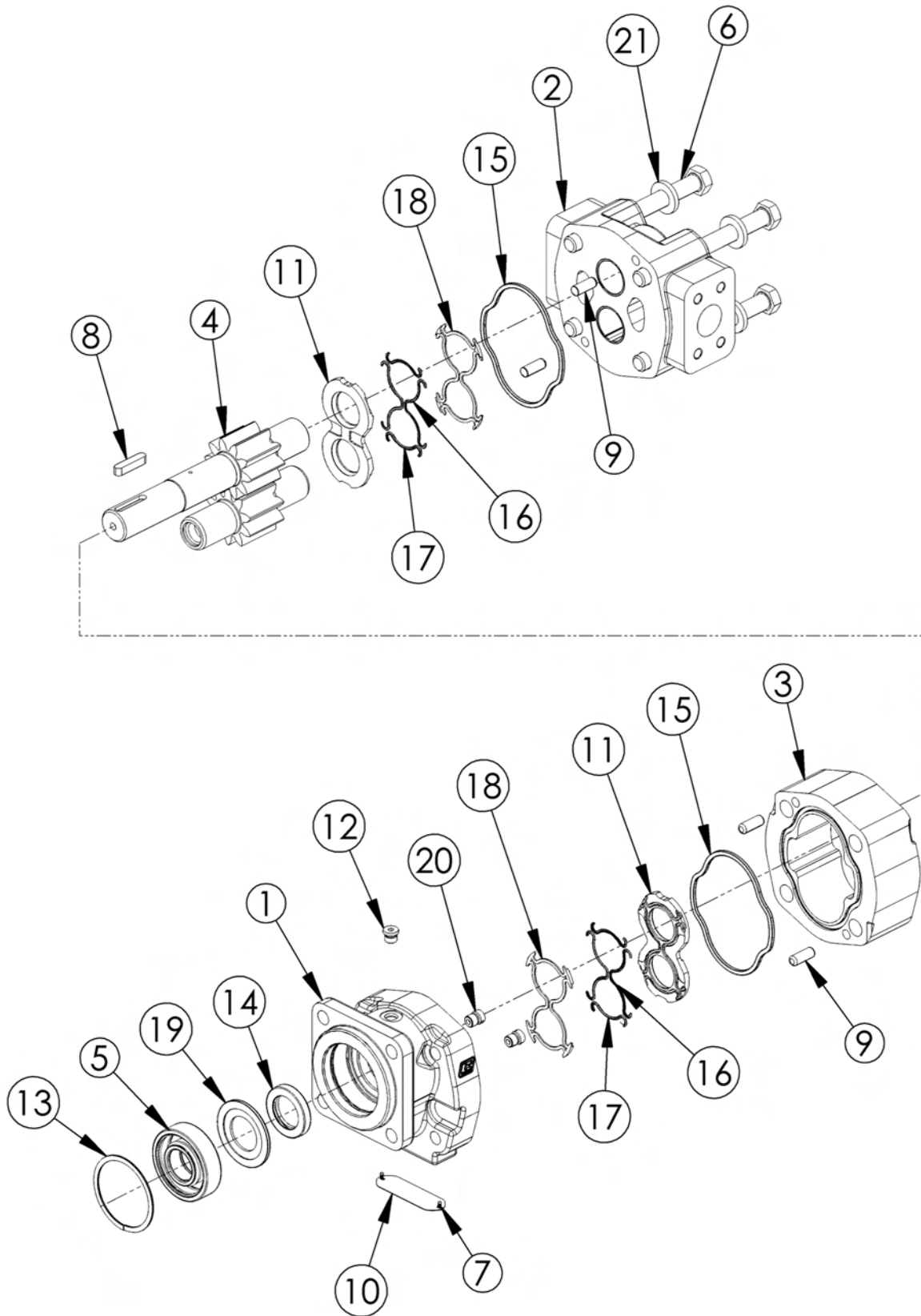


FRONT HYDRAULIC PUMP

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 63IN FLAIL MOTOR BREAKDOWN

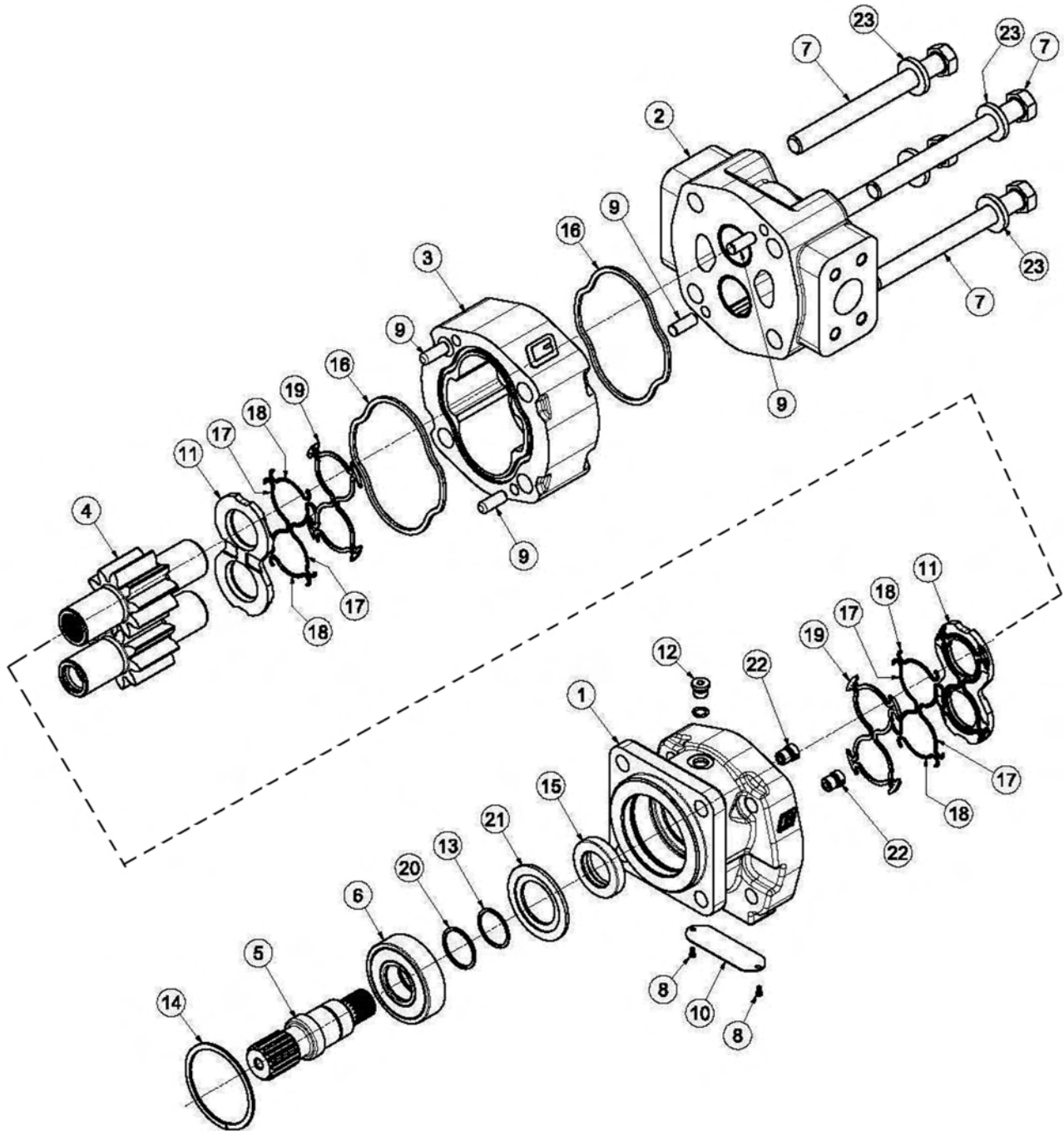


50IN AND 63IN FLAIL MOTOR BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------|----------|------|--|
| ----- | 06504013 | - | MOTOR ASSEMBLY 350 |
| 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) |

50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN

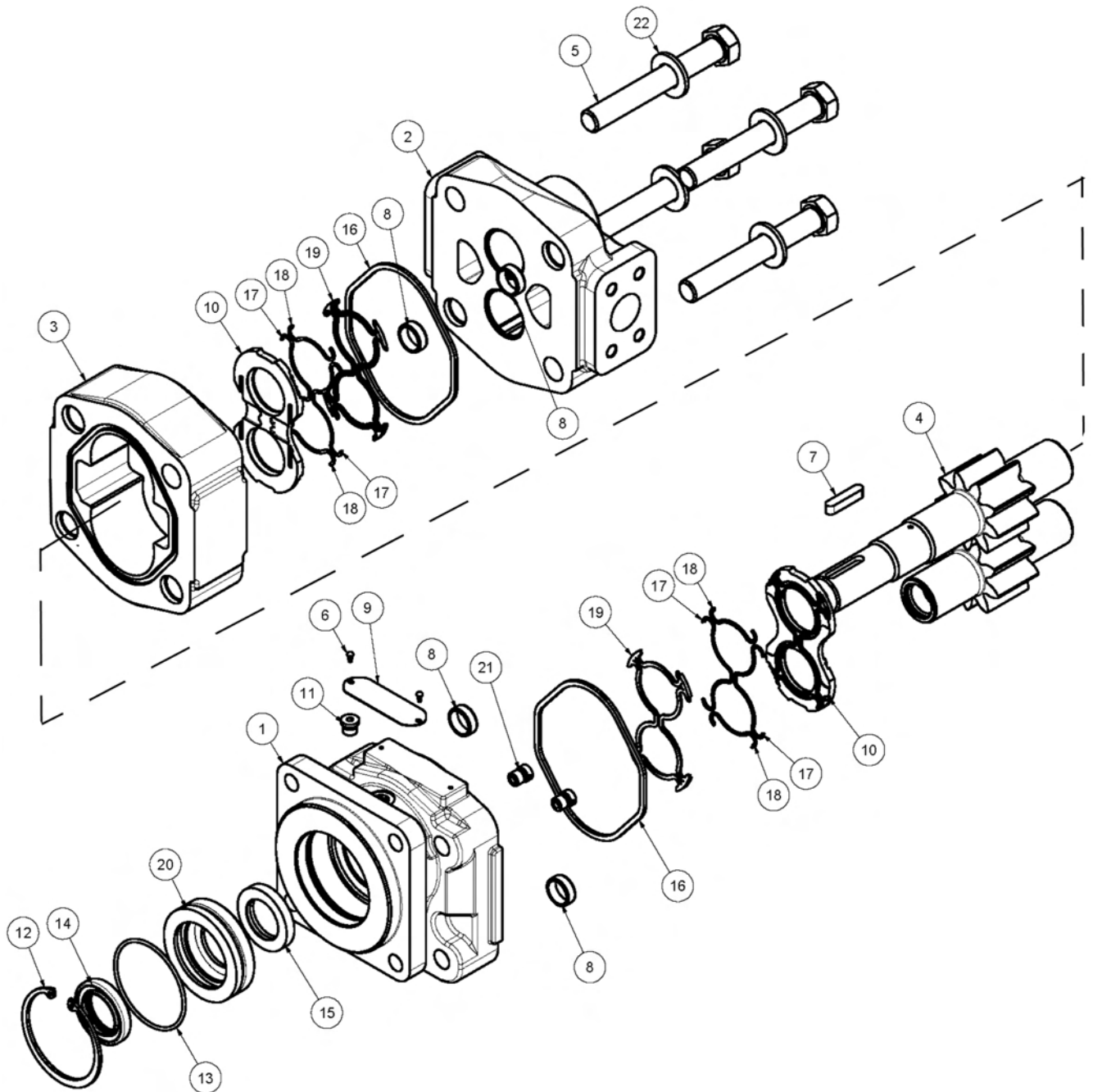


50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| --- | 06504003 | - | MOTOR ASSEMBLY,DIRECT DRIVE |
| 1 | 06504039 | 1 | HOUSING,SEC |
| 2 | 06504040 | 1 | HOUSING,PEC |
| 3 | 06504041 | 1 | HOUSING,GEAR |
| 4 | 06504117 | 1 | GEAR,SET |
| 5 | 06504118 | 1 | SHAFT,CONTINENTAL |
| 6 | TF4402 | 1 | BRG,BALL |
| 7 | 06504043 | 4 | CAPSCREW |
| 8 | 06504044 | 2 | SCREW,DRIVE |
| 9 | 06504045 | 4 | PIN,DOWEL |
| 10 | 06504077 | 1 | NAME PLATE |
| 11 | 763759 | 2 | THRPL |
| 12 | 02961940 | 1 | PLUG,ODT |
| 13 | 06504119 | 1 | RING,SNAP |
| 14 | TF4401 | 1 | RING,SNAP |
| 15 | 06504120 | 1 | SEAL,LIP |
| 16 | TF4410 | 2 | SEAL,SQ-R |
| 17 | 06504046 | 4 | SEAL,SIDE |
| 18 | 06504047 | 4 | SEAL,END |
| 19 | TF4407 | 2 | SEAL,BACK-UP |
| 20 | 06504121 | 1 | SPACER,BRG |
| 21 | 06504122 | 1 | RTNR,SEAL |
| 22 | 6T5809 | 2 | CHECK ASSY |
| 23 | 02961917 | 4 | WASHER |
| --- | 06504116 | 1 | SEAL KIT - ITEMS 14 THRU 19 (NOT SHOWN) |

50IN AND 60IN ROTARY MOTOR BREAKDOWN

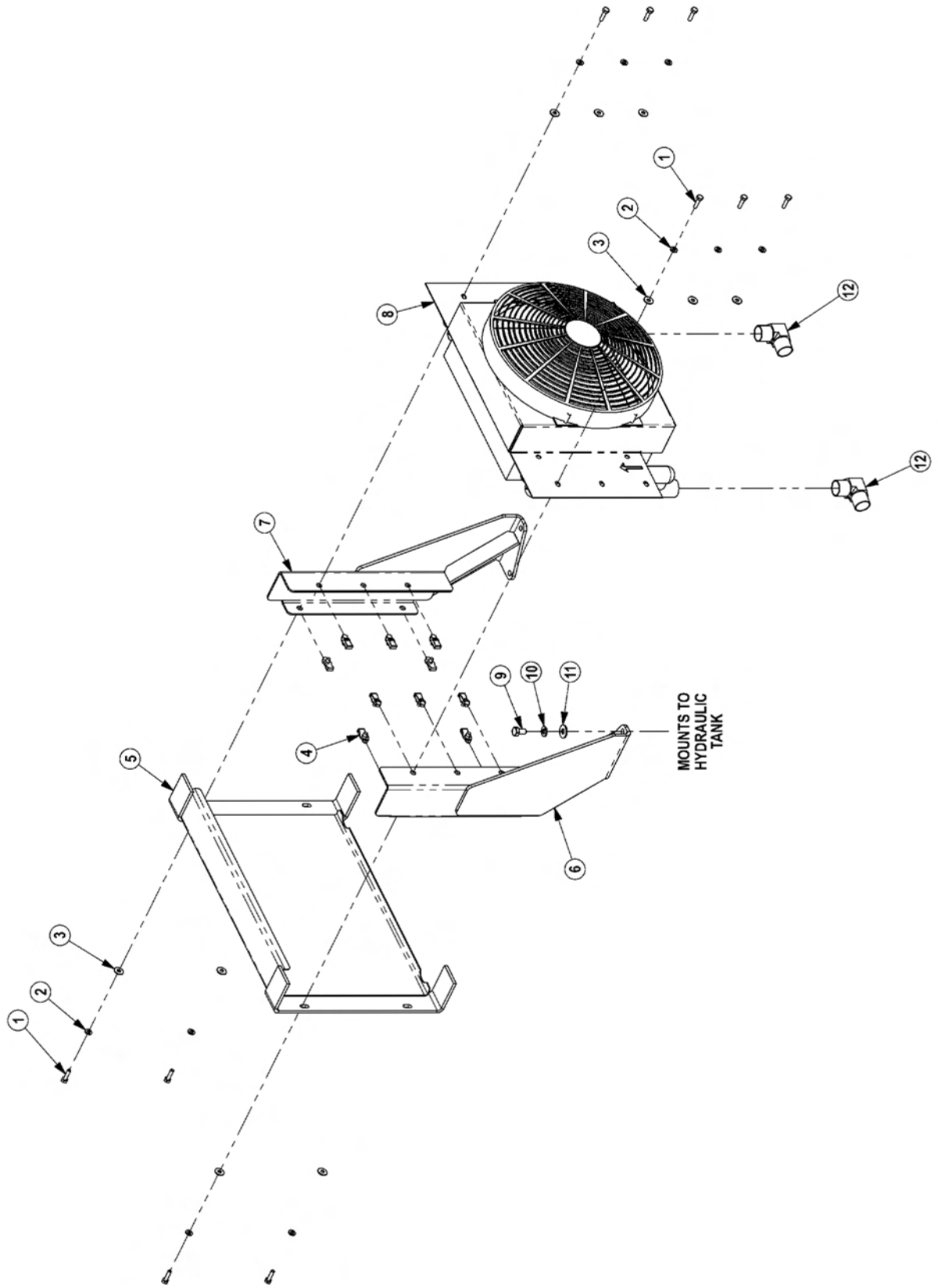


50IN AND 60IN ROTARY MOTOR BREAKDOWN

Continued...

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

COOLER ASSEMBLY



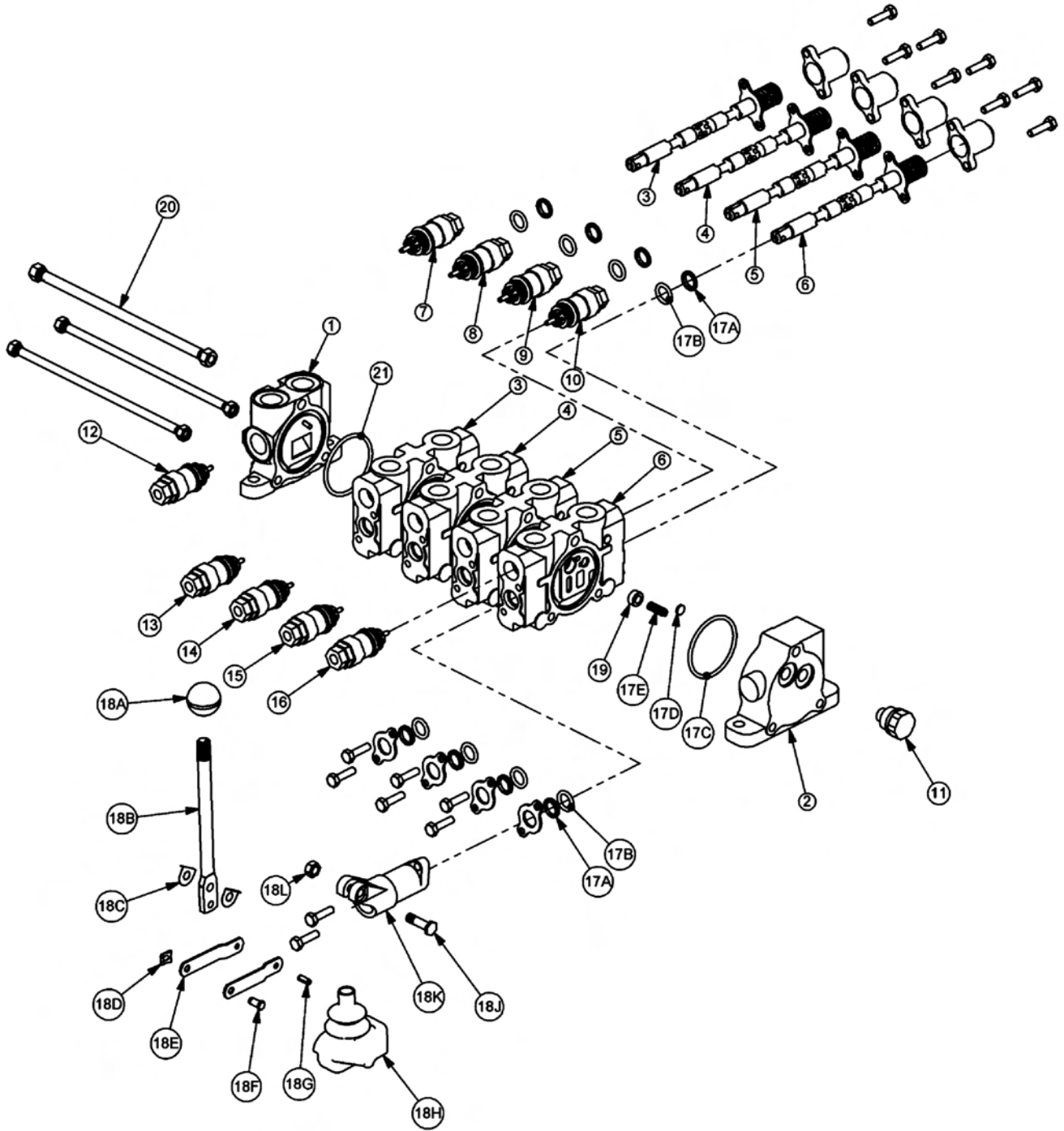
COOLER ASSEMBLY

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 |
| 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 SABER

CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104



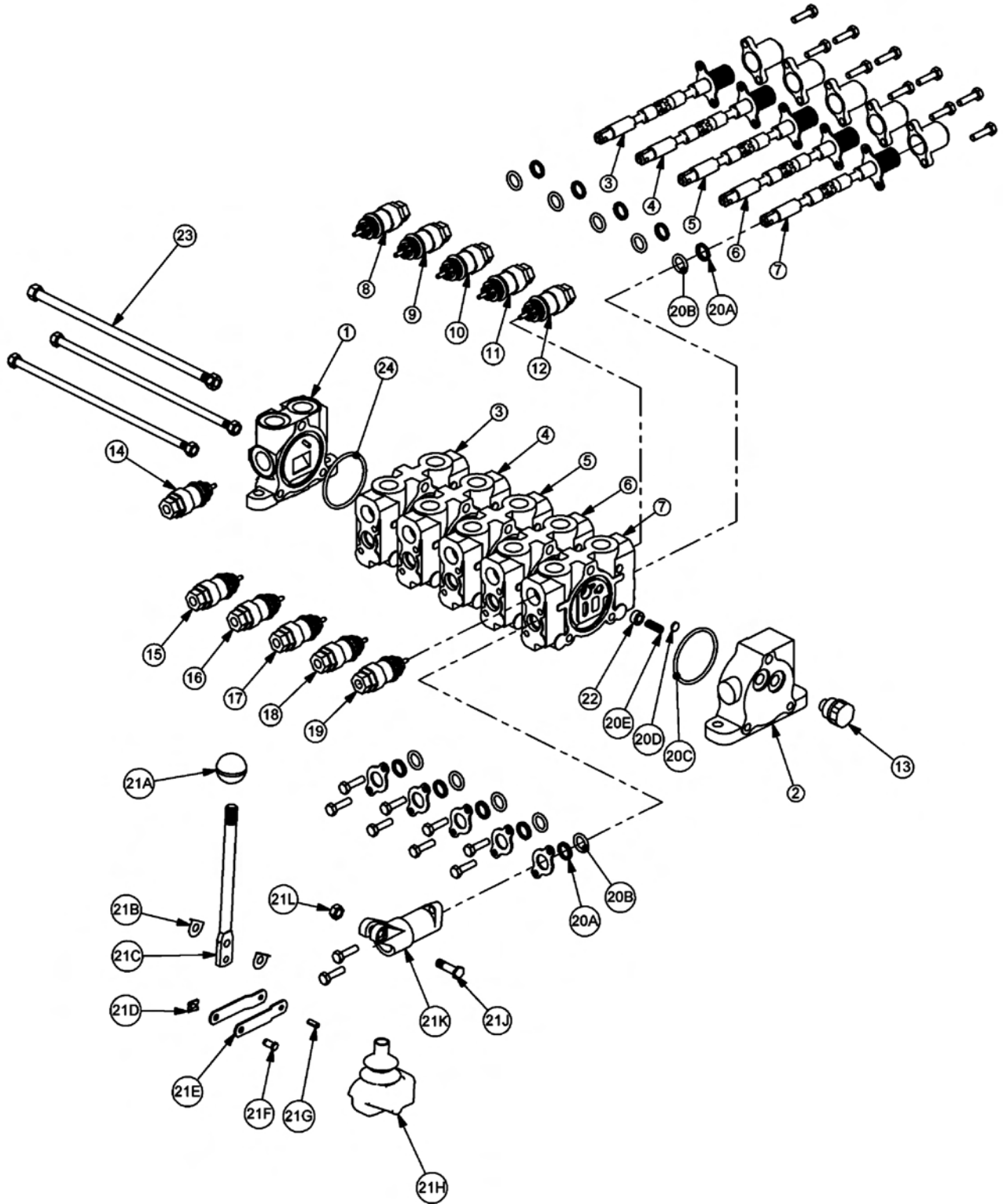
CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104

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 | 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 |

COMMON SABER

CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103



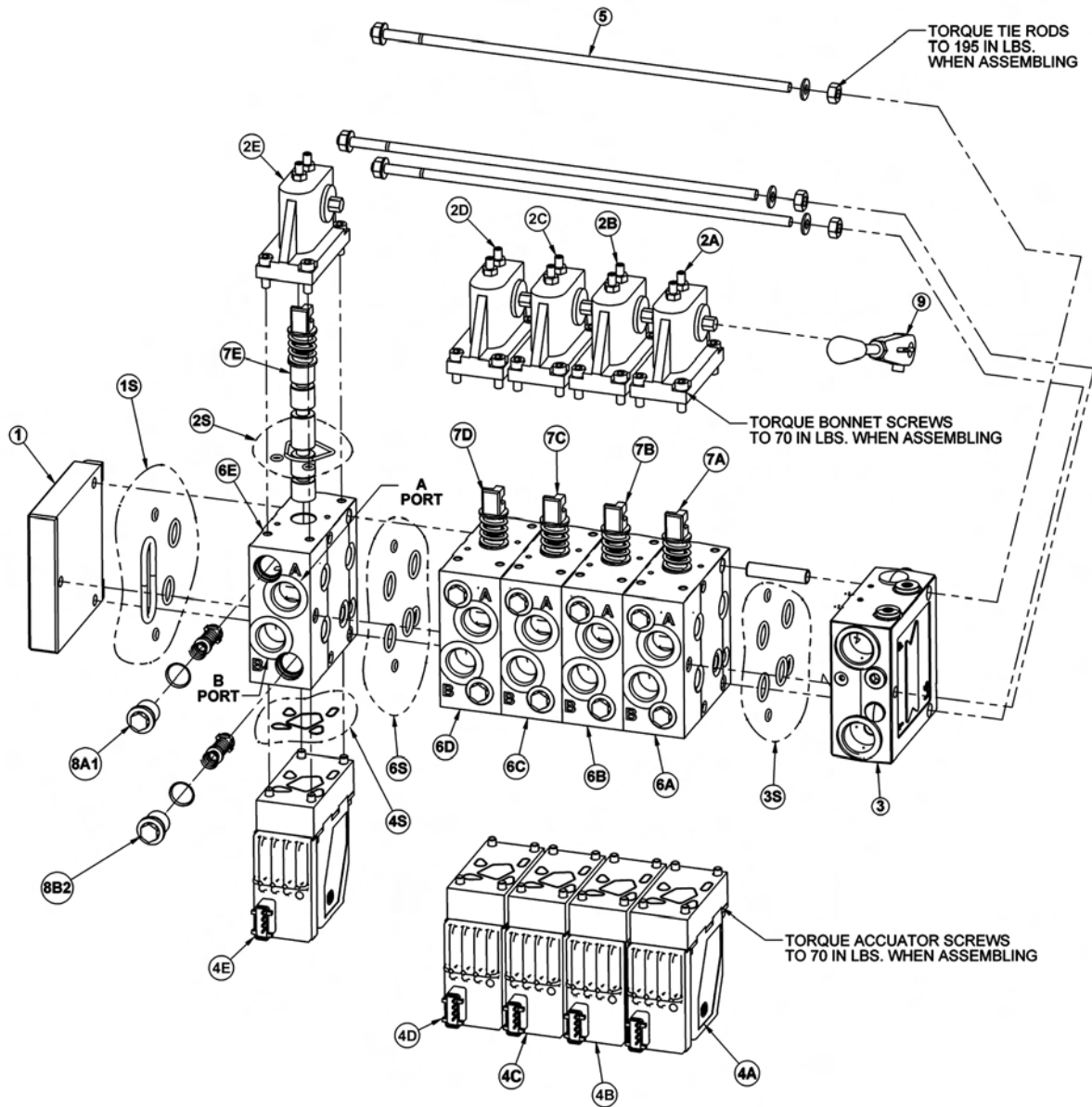
CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103

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 |

COMMON SABER

5 SPOOL ELECTRONIC VALVE - 06502096



| 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 |

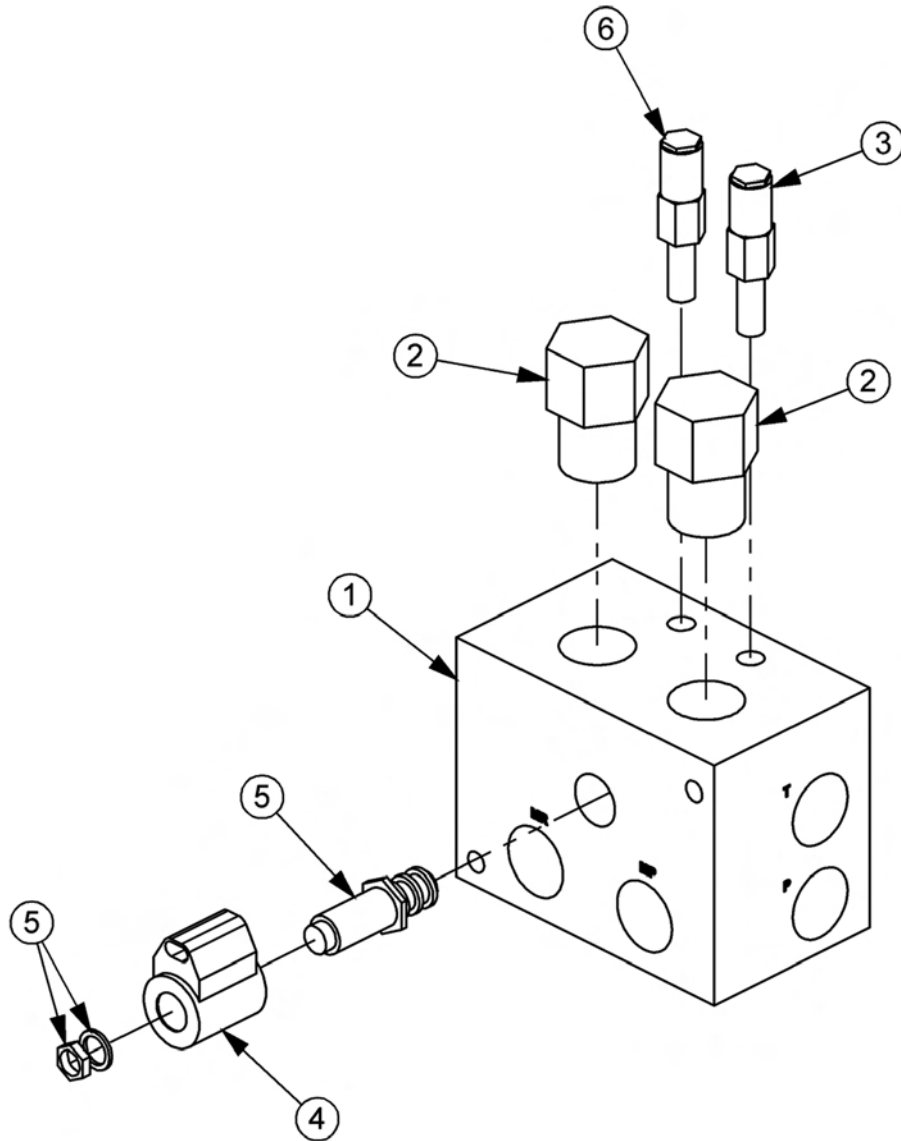
5 SPOOL ELECTRONIC VALVE - 06502096

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 SABER

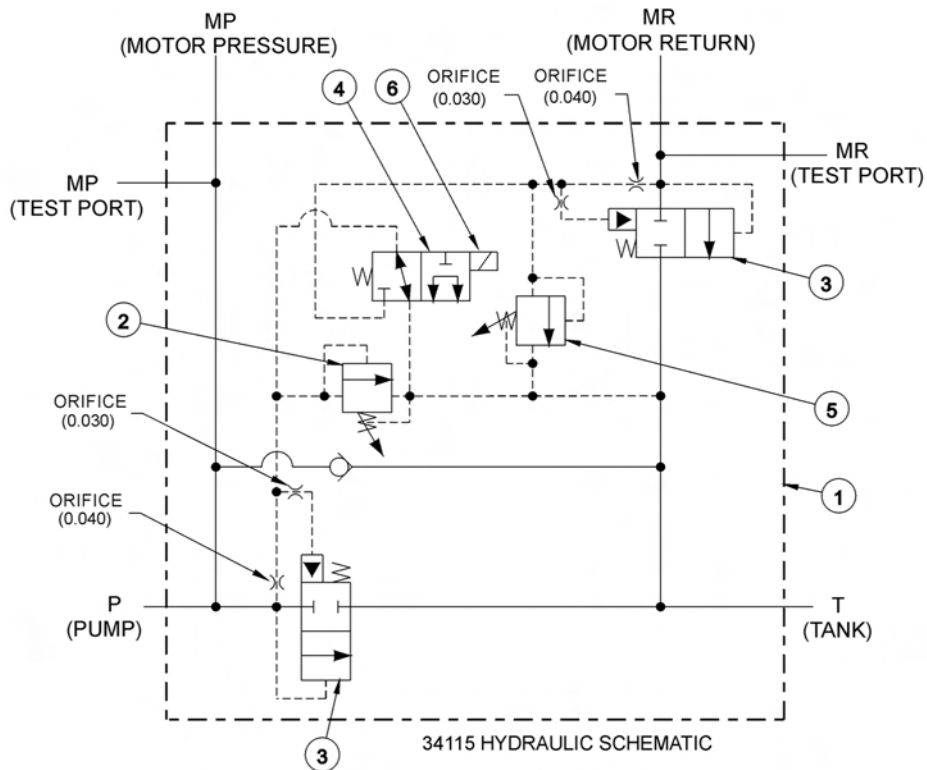
BRAKE VALVE ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--|
| --- | 06510084 | 1 | BRAKE VALVE, ASSY |
| 1 | 34092 | 1 | BRAKE VALVE, BLANK |
| 2 | 34094 | 2 | LOGIC ELEMENT |
| 3 | 34090 | 1 | RELIEF VALVE, 3500 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 SABER

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.

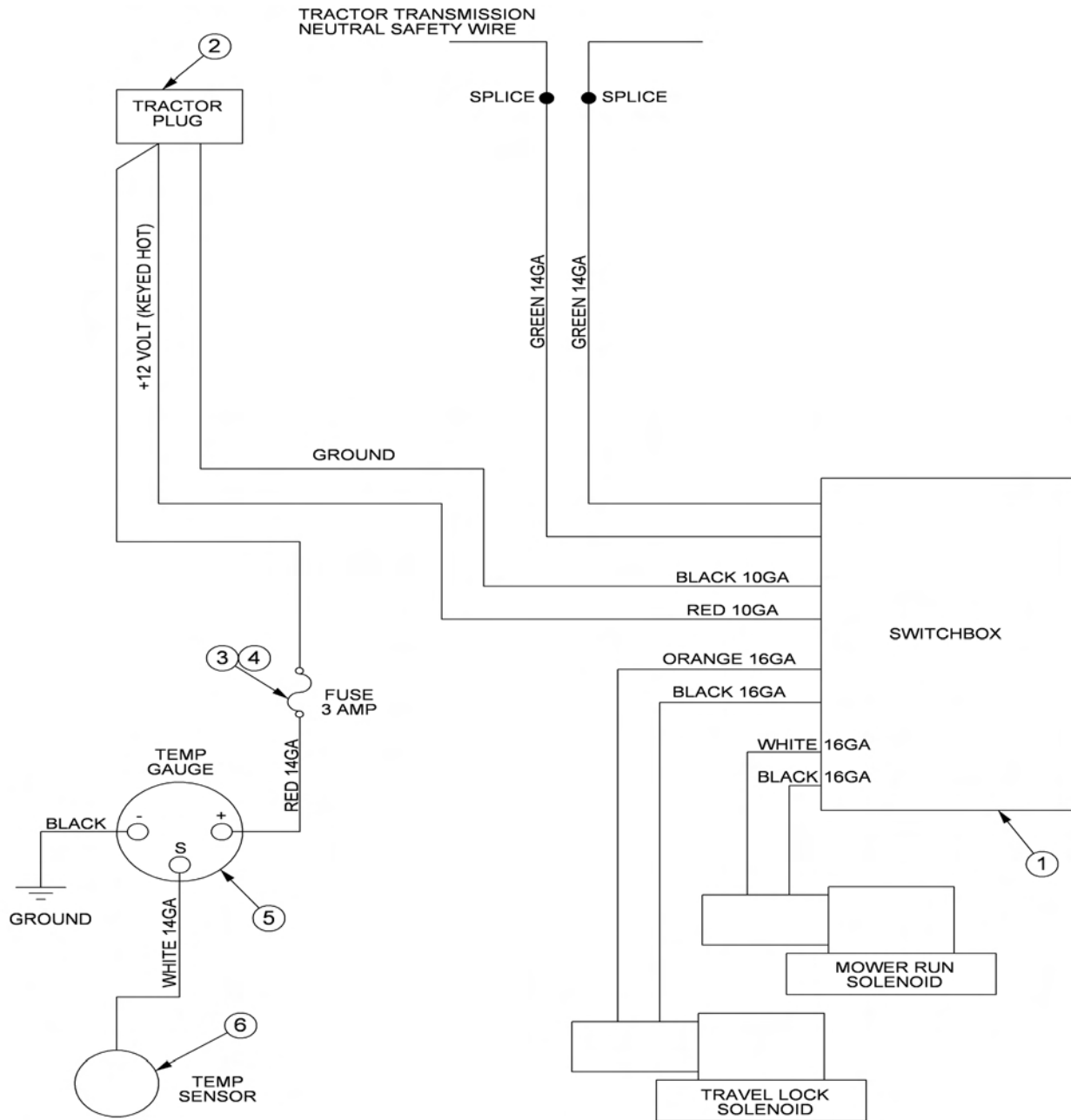
CHECK STEPS

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

CORRECTIVE STEPS:

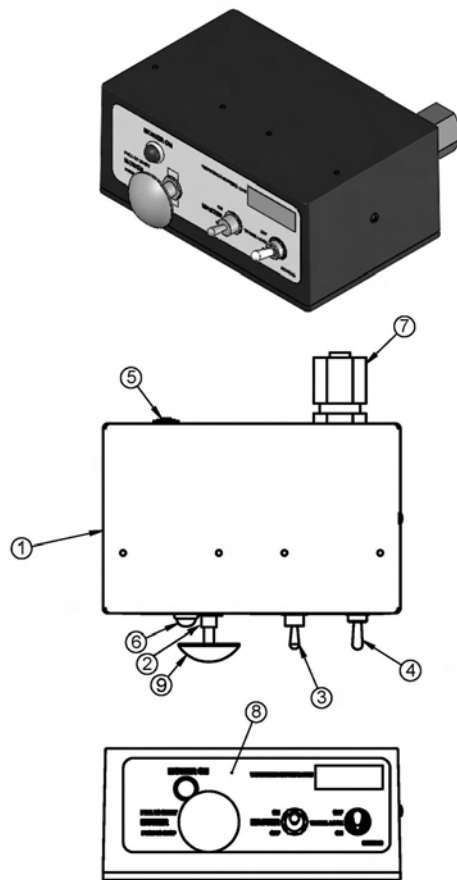
1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve (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.

SOLENOID SWITCH BOX AND WIRING



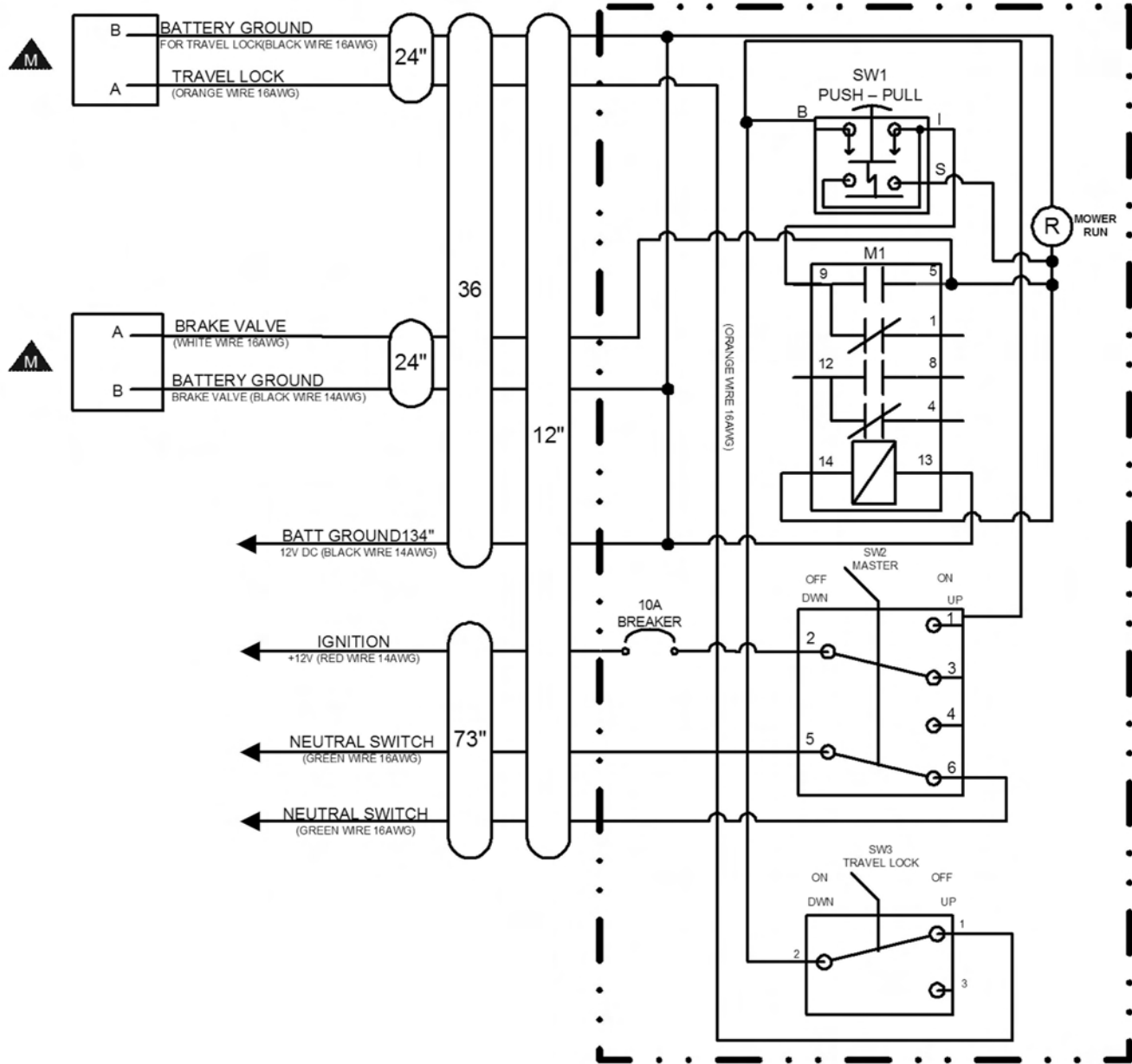
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------|
| 1 | ----- | - | SWITCH BOX |
| 2 | RE37651 | 1 | PLUG,AUX PWR |
| 3 | 24204 | - | FUSE HOLDER,IN-LINE (OPTION) |
| 4 | 6T3965 | - | FUSE,3AMP (OPTION) |
| 5 | 6T3934 | - | TEMPERATURE GAUGE (OPTION) |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

MANUAL LIFT VALVE SWITCH BOX

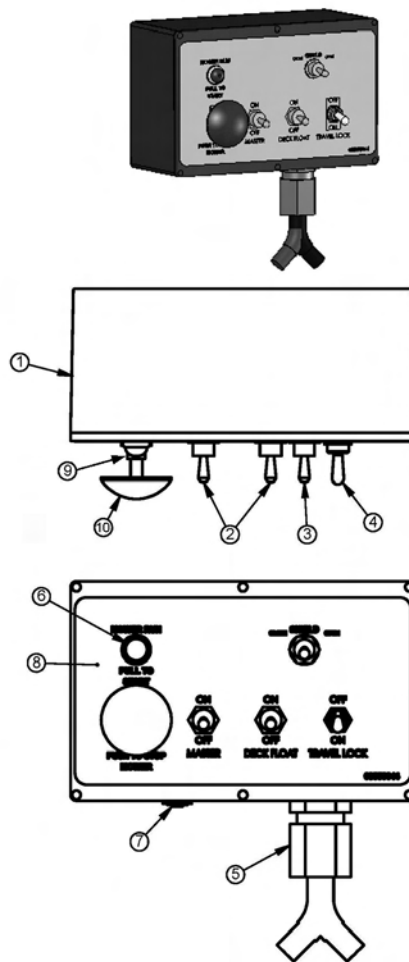


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-------------------------------|
| 1 | 06514012 | 1 | SWBX,ALUM,BLK,06510100 |
| 2 | 35226 | 1 | SWITCH,MOWER,COLEHERSEE |
| 3 | 33811 | 1 | SWITCH,MASTER/DECK FLOAT |
| 4 | 34532 | 1 | SWITCH,TRVL LCK |
| 5 | 06514014 | 1 | BREAKER,10A,SWBX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

MANUAL LIFT VALVE SCHEMATIC

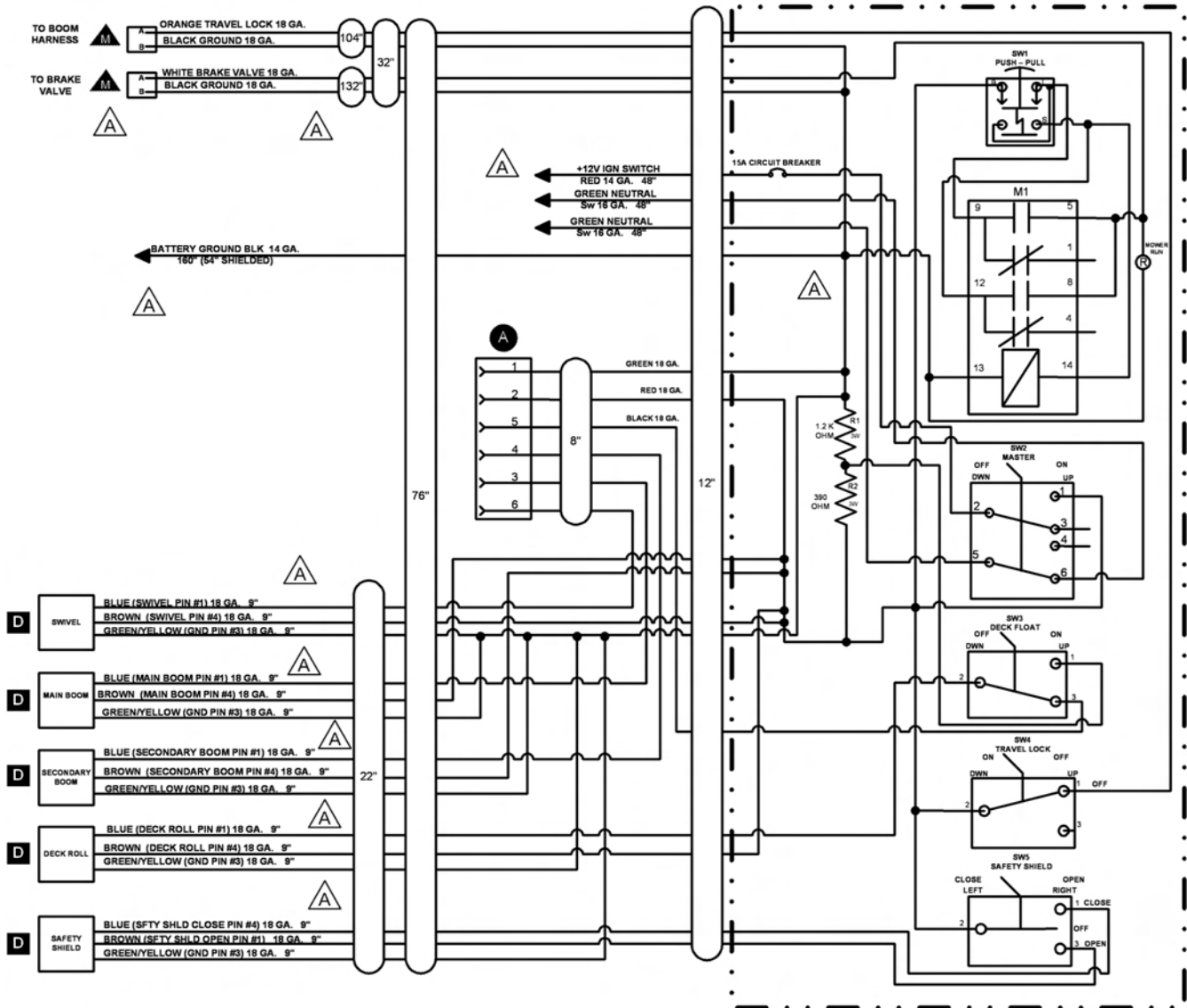


ELECTRONIC LIFT VALVE SWITCH BOX



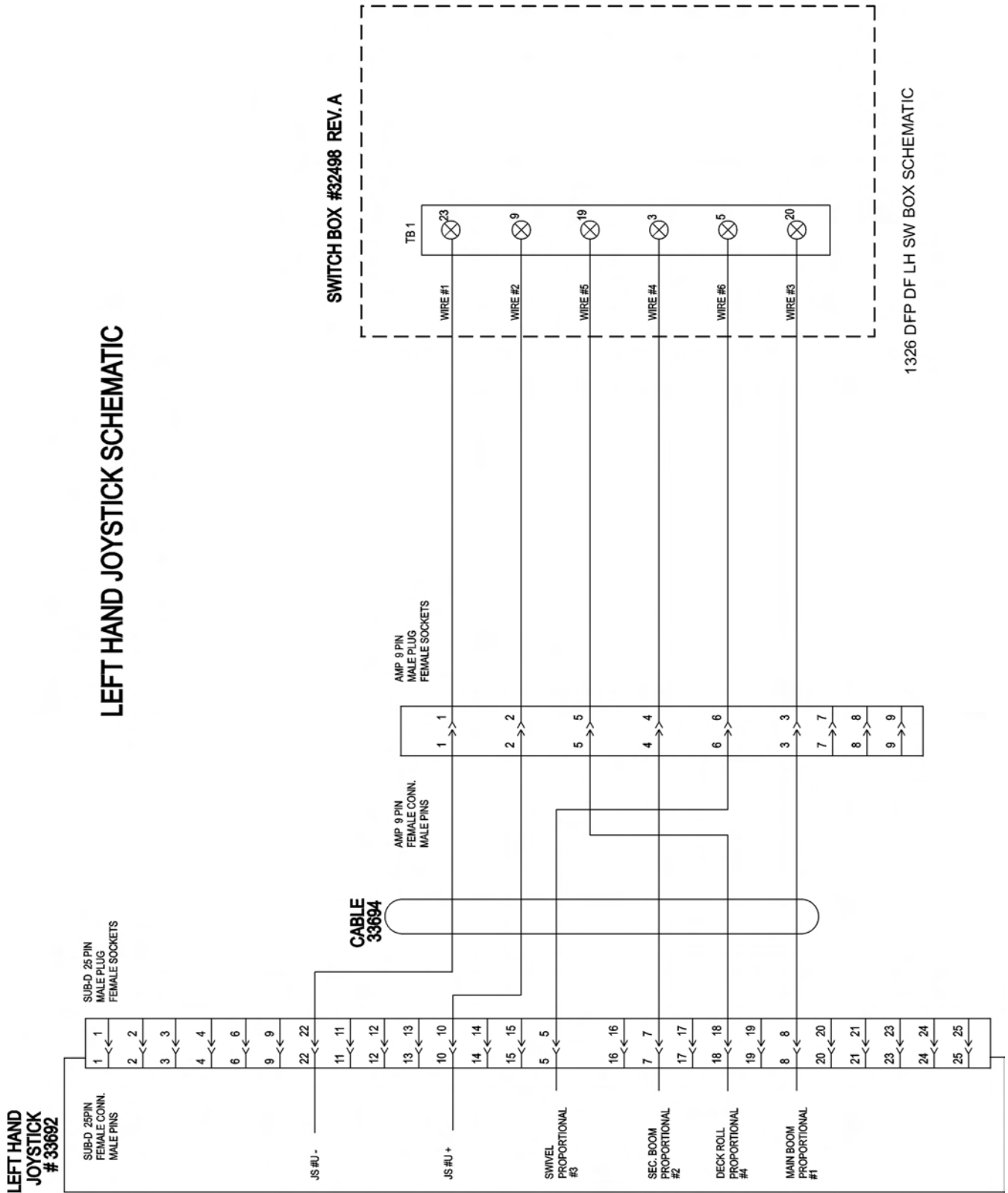
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| 1 | 06510196 | 1 | SWBX,ASSY |
| 2 | 33811 | 2 | SWITCH,MASTER/DECK FLOAT |
| 3 | 33813 | 1 | SWITCH,SFTY SHIELD |
| 4 | 34532 | 1 | SWITCH,TRVL LCK |
| 5 | 34540 | 1 | STRAIN RELIEF,3/4",BLACK,NYLON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

ELECTRONIC LIFT VALVE SCHEMATIC



LEFT HAND JOYSTICK SWITCHBOX SCHEMATIC

LEFT HAND JOYSTICK SCHEMATIC



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.

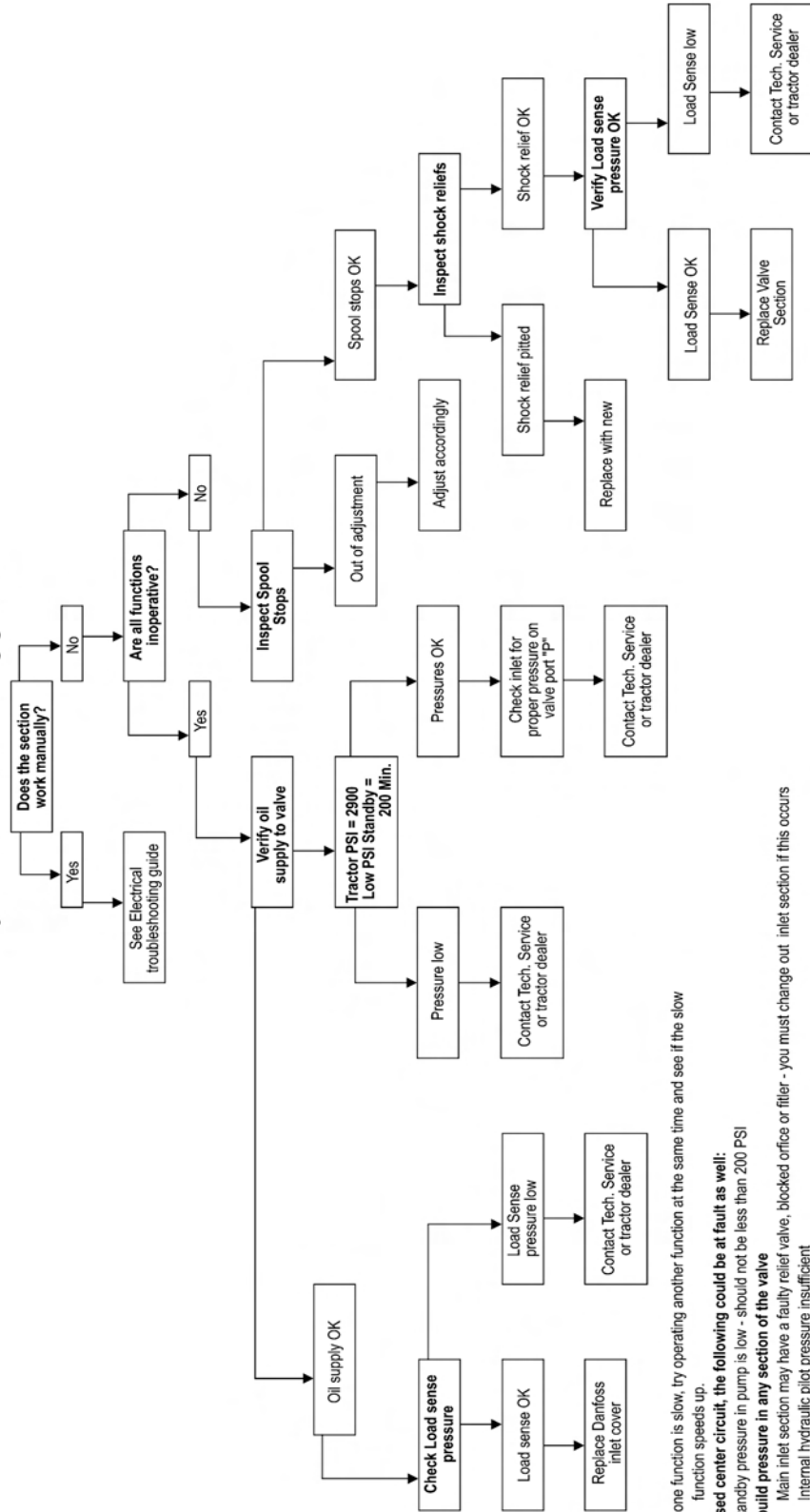
Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

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:

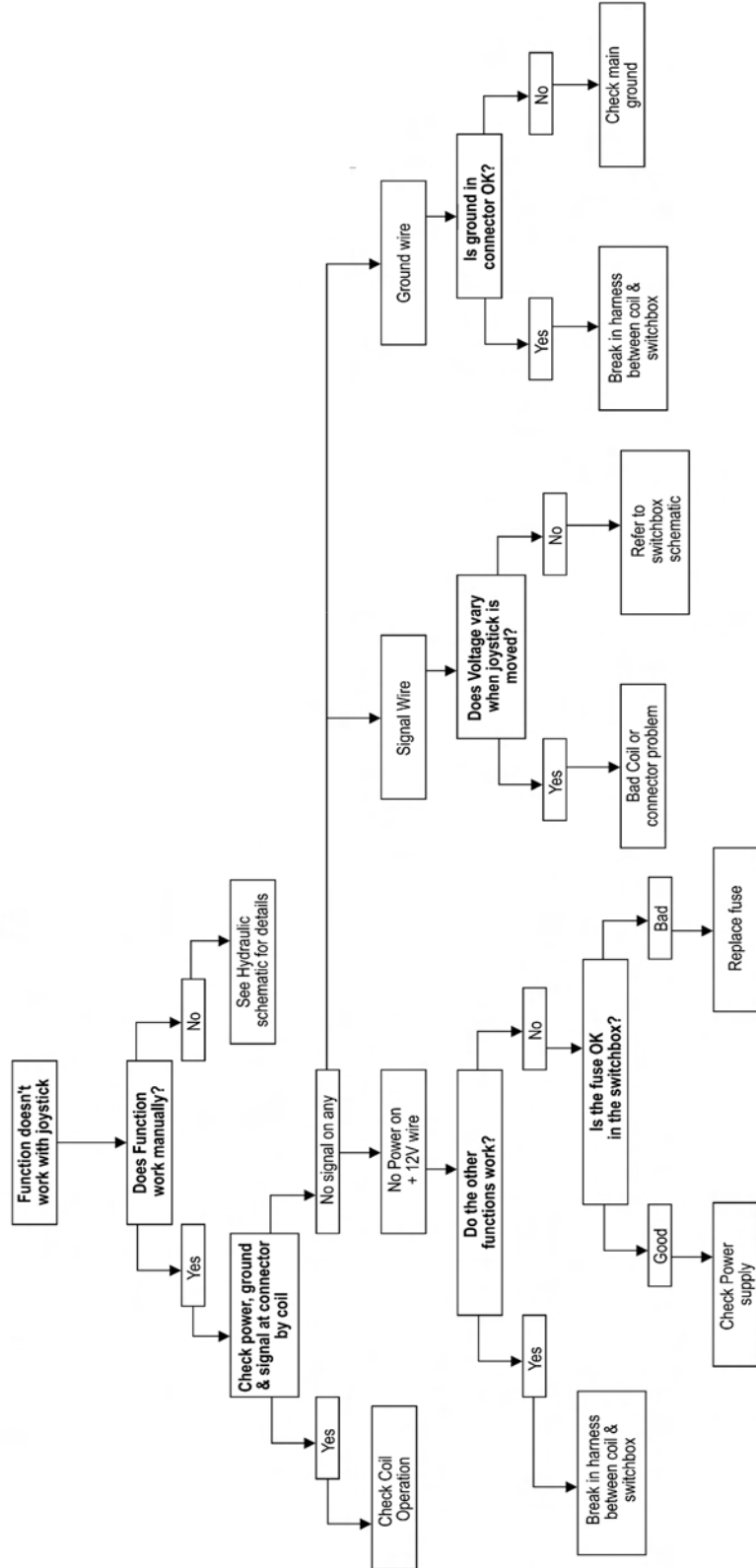
Tractor standby pressure in pump is low - should not be less than 200 PSI

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

ELECTRICAL TROUBLESHOOTING GUIDE

Joystick Electrical Troubleshooting guide



NOTES

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 SABER 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 34767) 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 34768) 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 3/4-16 x 3 1/4" UNF Grade 8 bolts (part number 34769), and install lock washers (part number 21993) 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 298 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. (8G-14)



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. (S3-4)



OPERATING INSTRUCTIONS

Inspect clean cutter saw before each use. Re-torque spindle bolts to 331 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 SABER Clean Cutter is intended for clean cutting trees and brush up to eight (8) 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 at 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, produce 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 machine's 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.

(SBM-7)



WARNING!



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



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)



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.

CLEAN CUTTER MAINTENANCE

MAINTENANCE INSTRUCTIONS

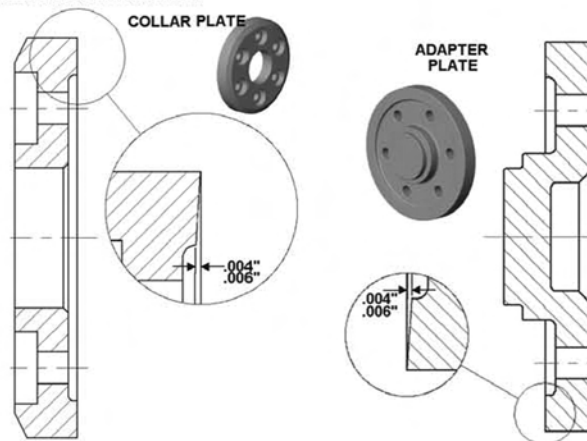
Inspect clean cutter saw before each use. Re-torque spindle bolts in an alternating pattern to 331 ft-lbs. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose tooth assemblies by hammer and or replacing rivets. If teeth tips are broken, chipped, or missing, replace tip or replace 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.

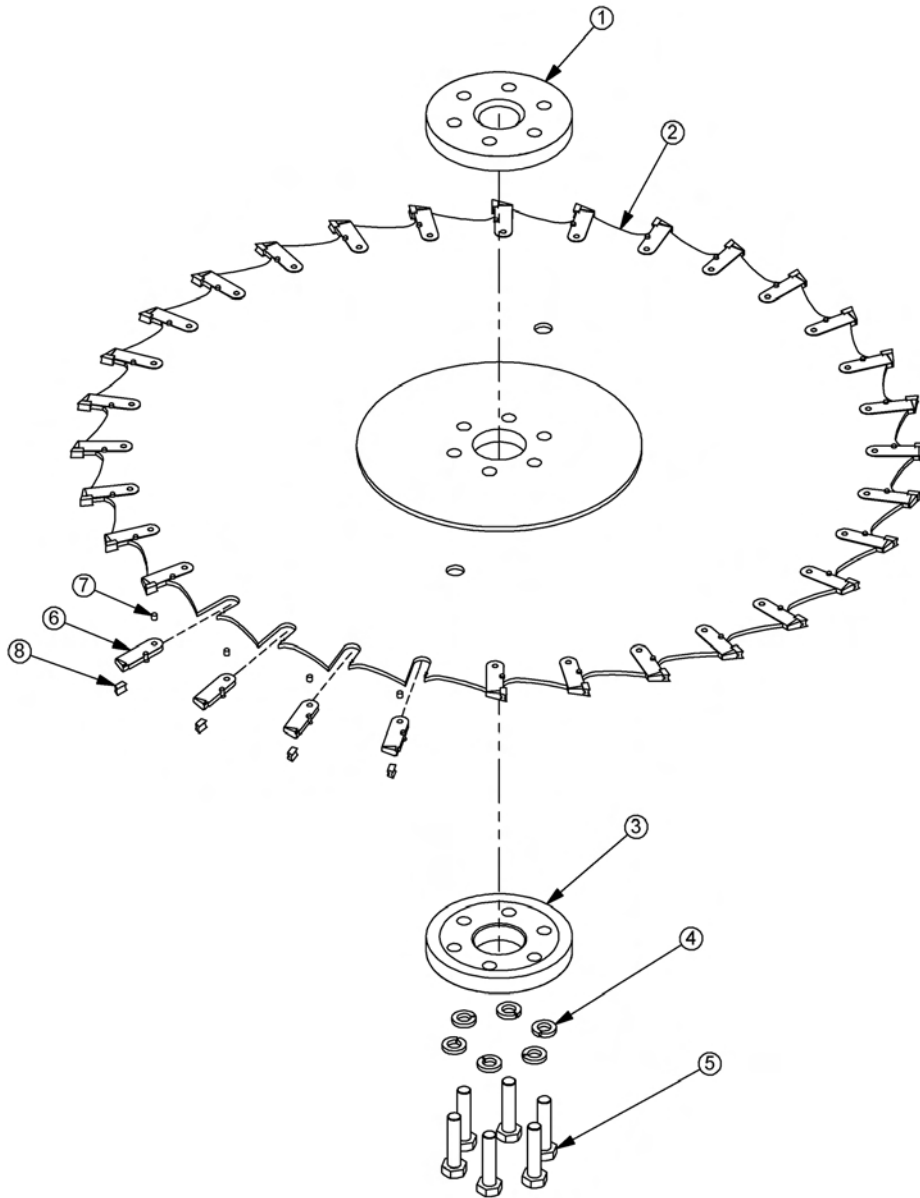
Check adapter and collar every time saw is changed, maintain the .004 to .006 inch taper (see figure below) on inside face (surface against saw blade) of these two (2) items. Always clean inside face of adapter and collar before mounting the blade. If adapter or collars are worn, chipped, or damaged,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

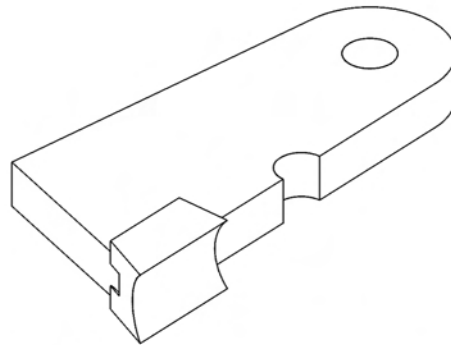


| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------|
| 1 | 06420025 | 1 | ADAPTER,SAW,SABER,RNFRCD |
| 2 | 06520224 | 1 | BLADE, 48" SAW WITH TEETH |
| 3 | 06420038 | 1 | COLLAR,SAW,SABER |
| 4 | 33380 | 6 | FLATWASHER,3/4",GR8,SAE |
| 5 | 06530210 | 6 | 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) |

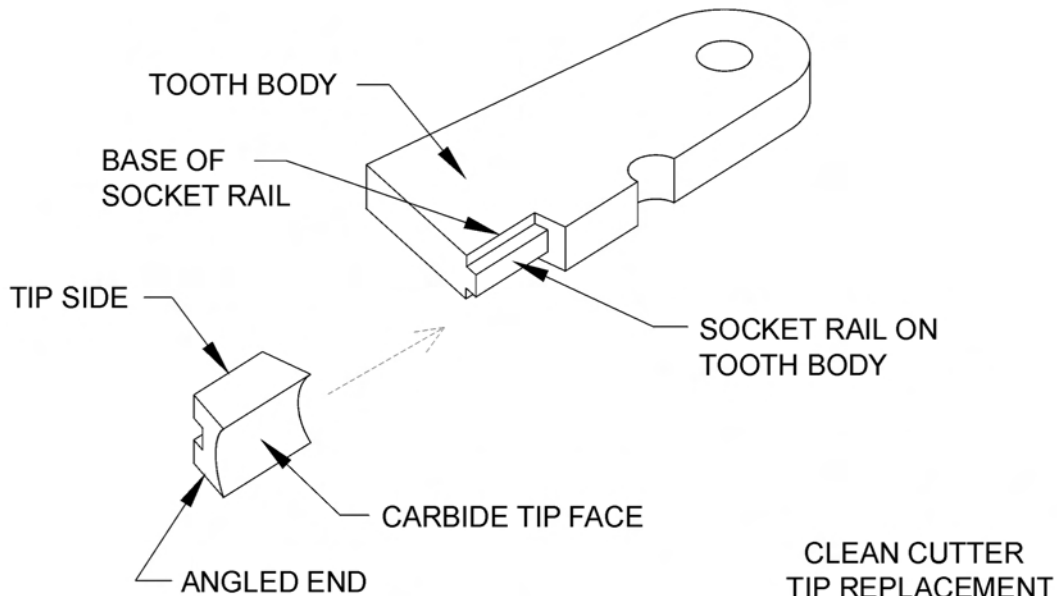
COMMON SABER

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.



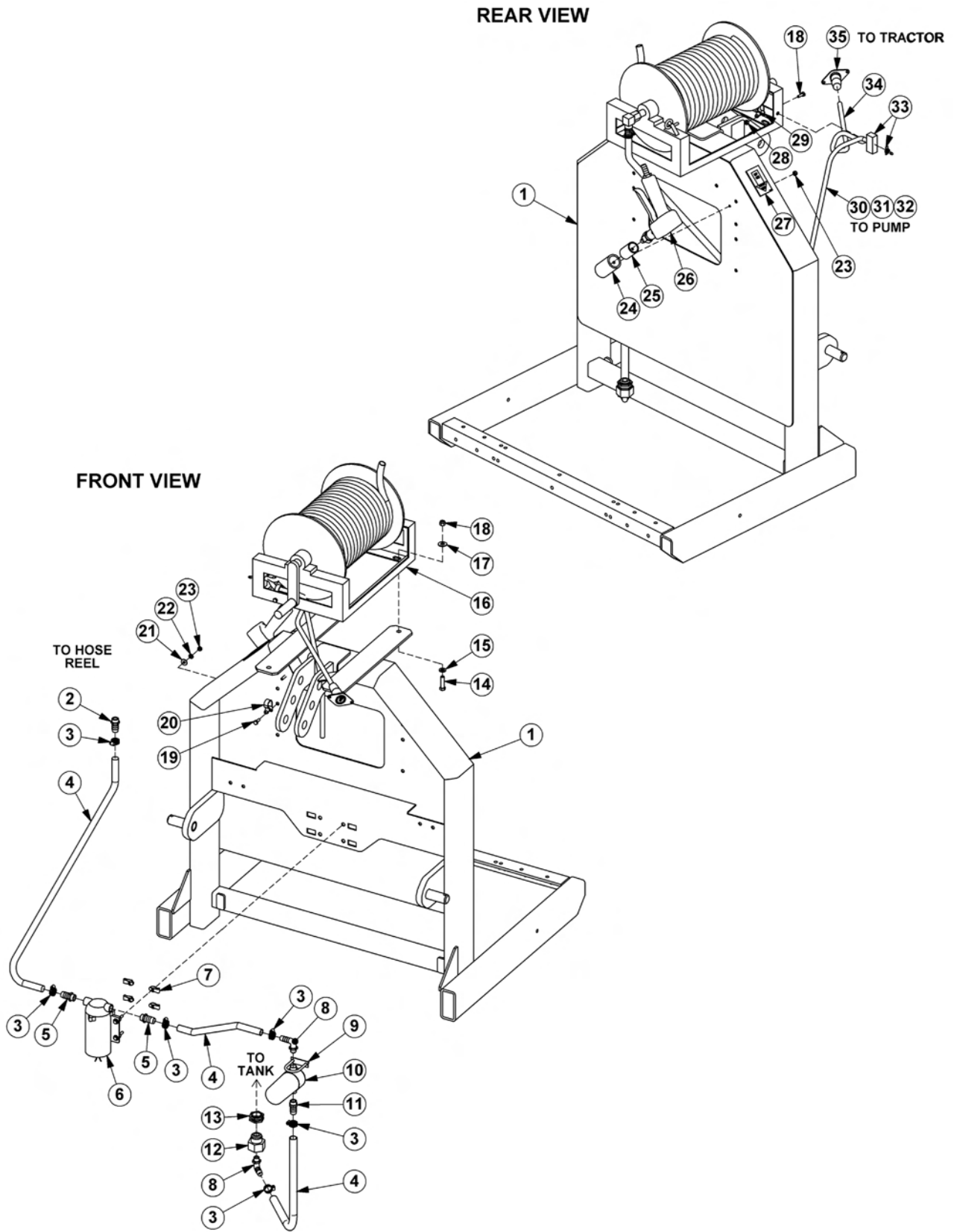
VIEW OF ASSEMBLED TOOTH



NOTES

**FIRE SUPPRESSION SYSTEM
SECTION**

FIRE SUPPRESSION 3-POINT MOUNT



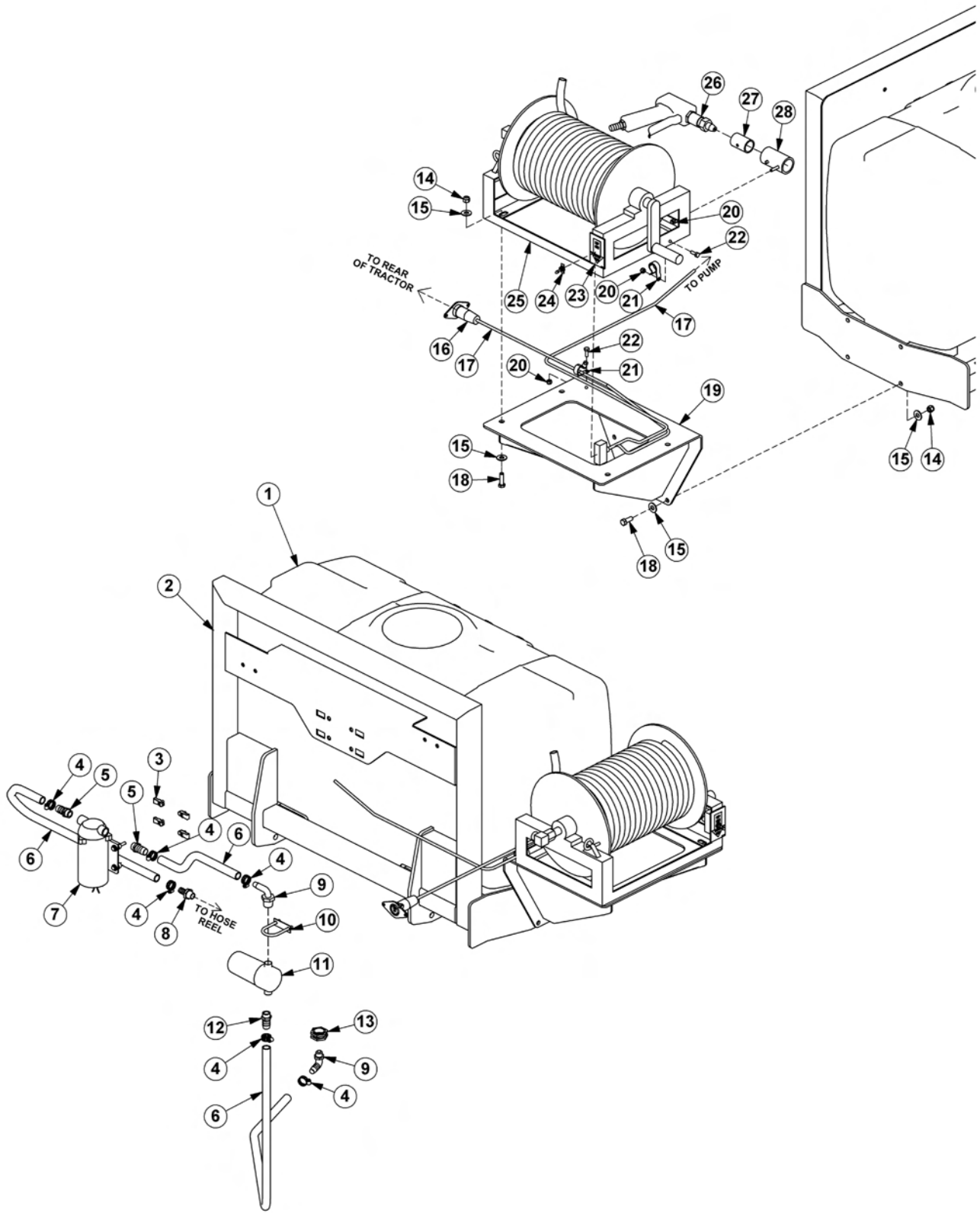
FIRE SUPPRESSION 3-POINT MOUNT

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 SABER

FIRE SUPPRESSION FRONT MOUNT



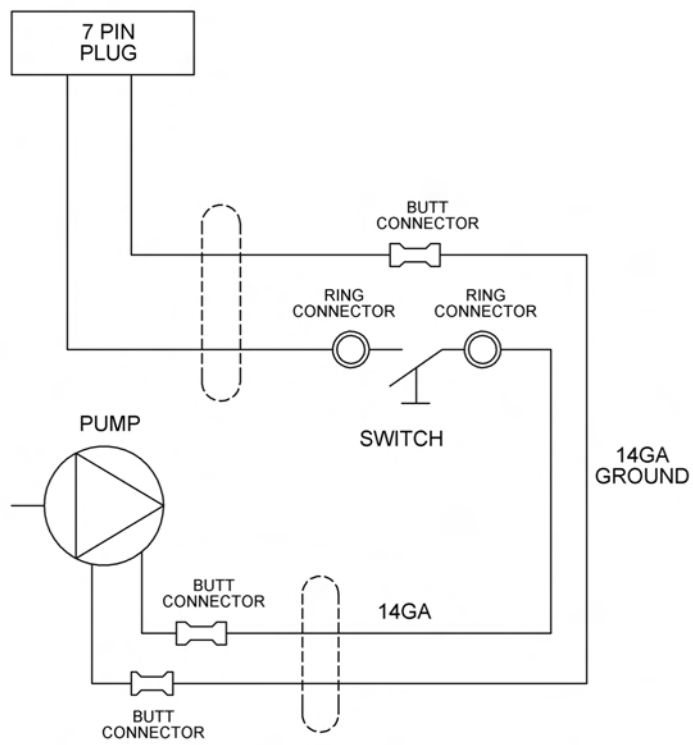
FIRE SUPPRESSION FRONT MOUNT

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 SABER

FIRE SUPPRESSION SYSTEM ELECTRICAL SCHEMATIC

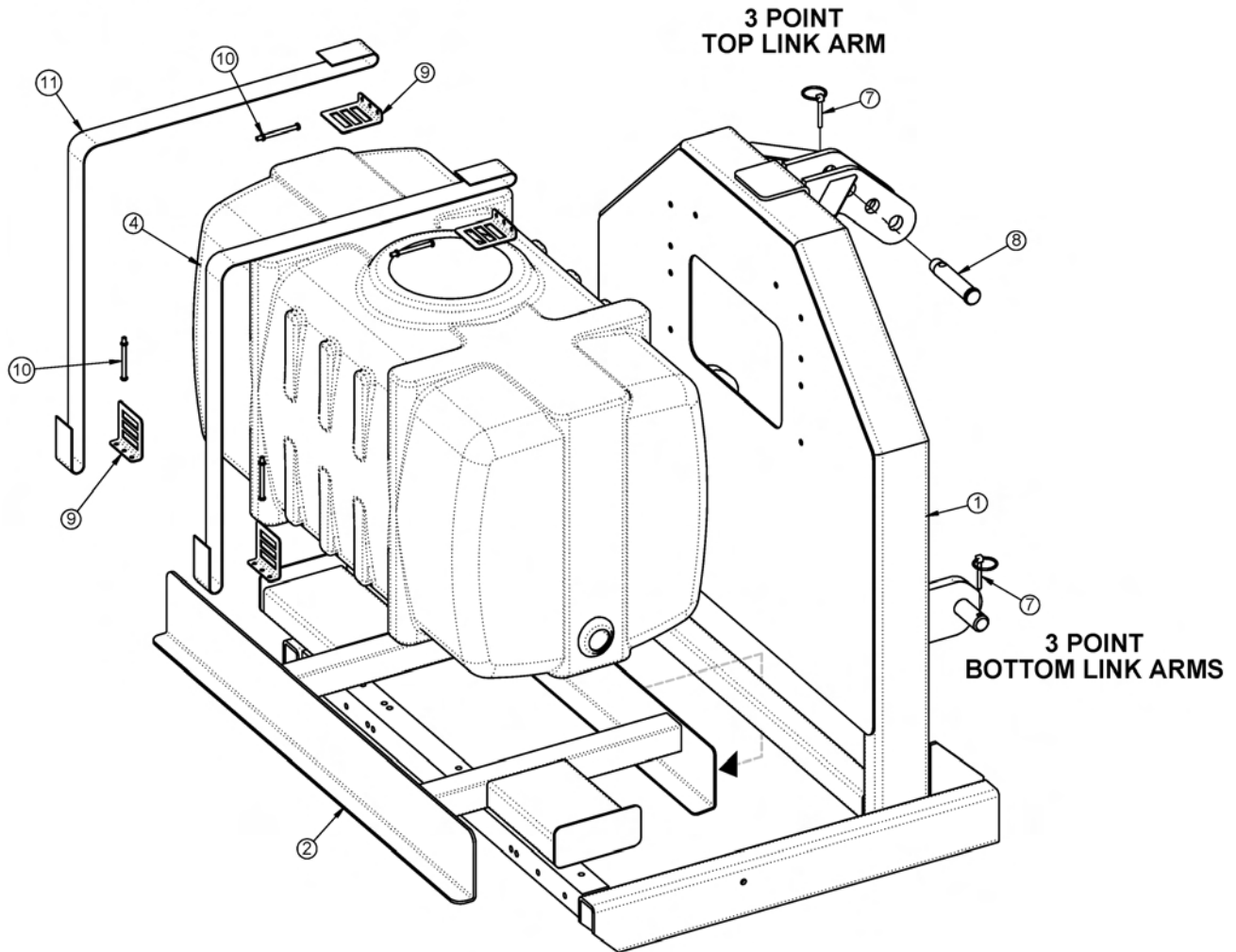


WETCUT

**WETCUT
SECTION**

WETCUT 50 GALLON TANK - 3PNT MOUNT

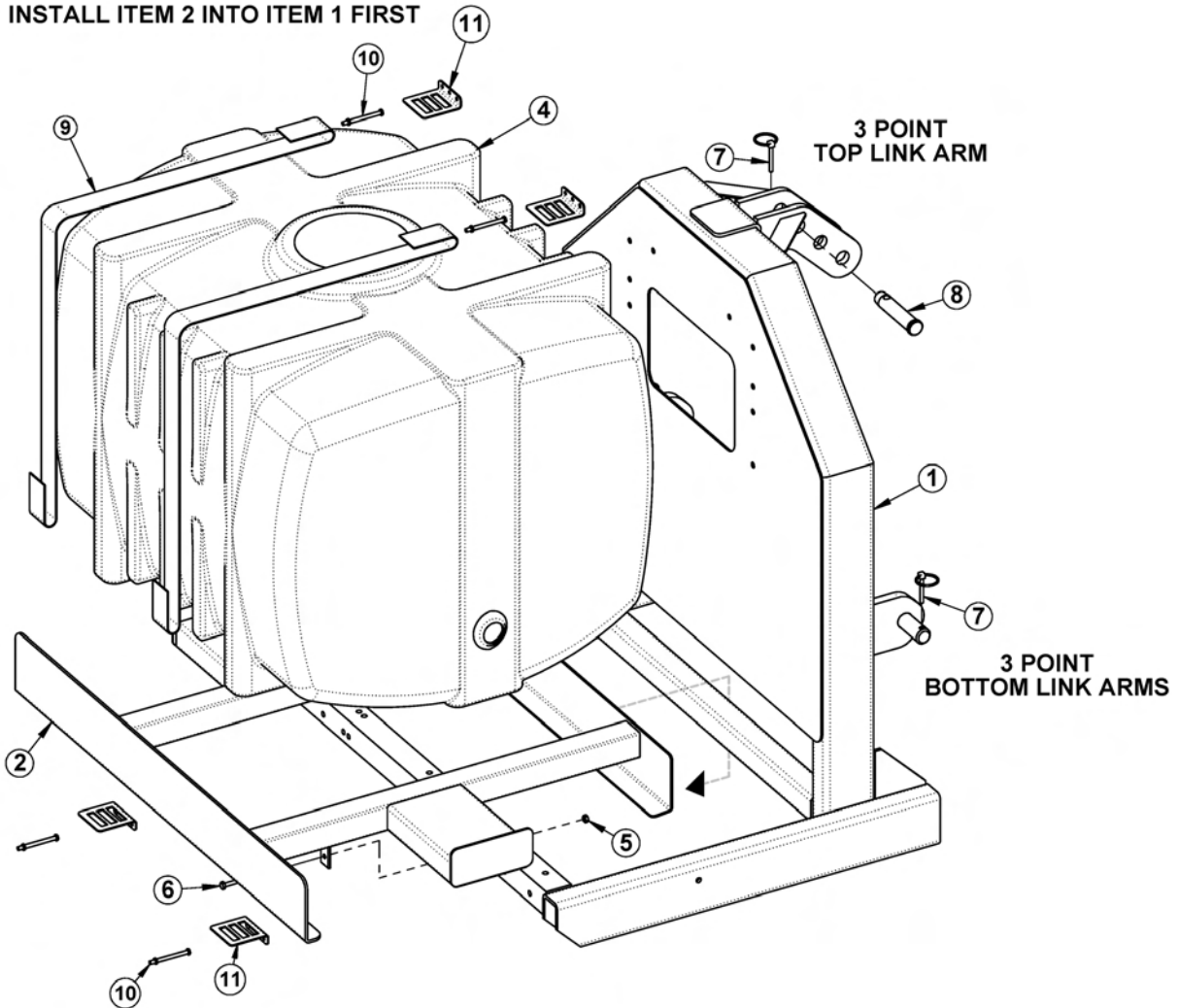
INSTALL ITEM 2 INTO ITEM 1 FIRST



| 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

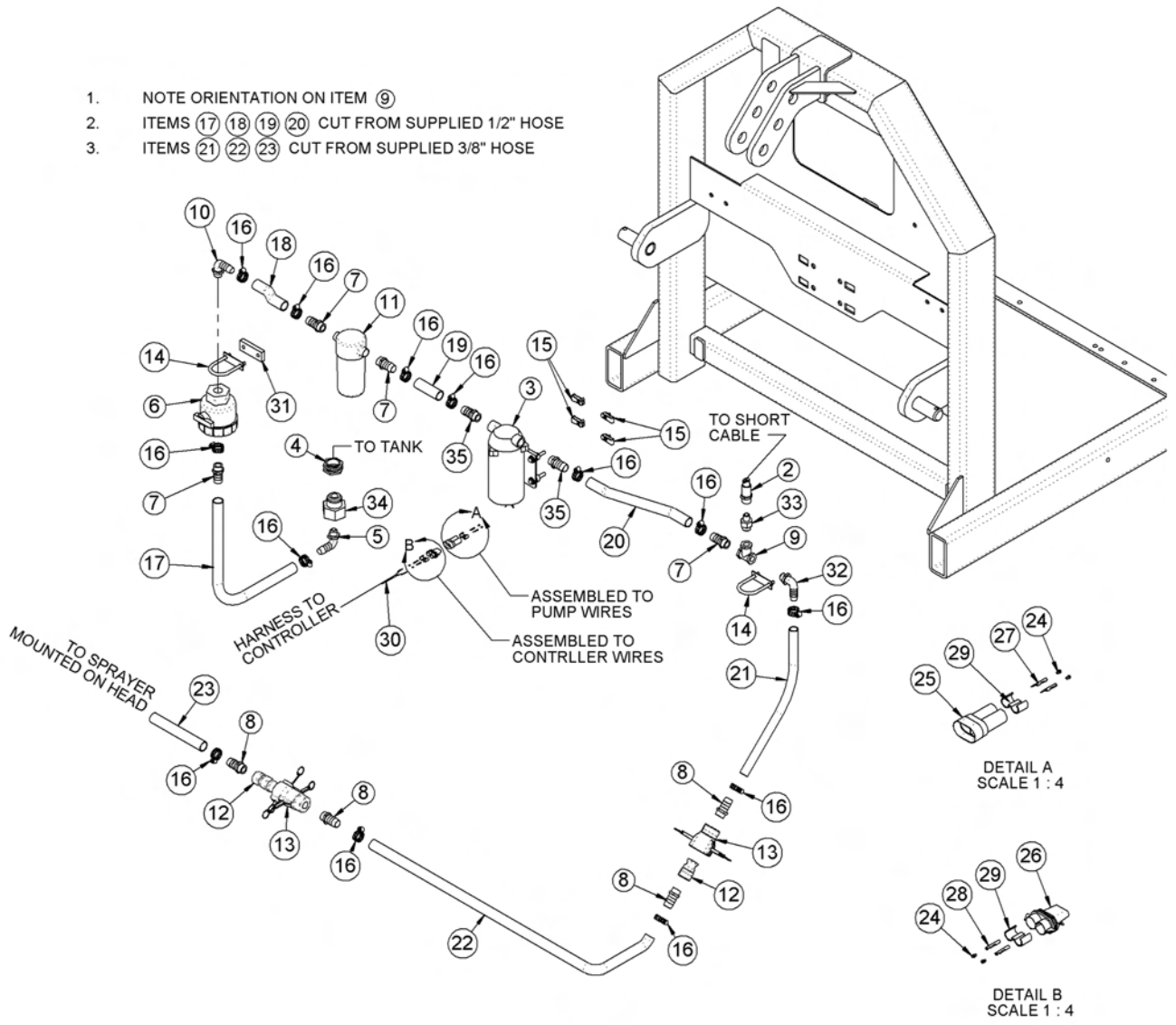
INSTALL ITEM 2 INTO ITEM 1 FIRST



| 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



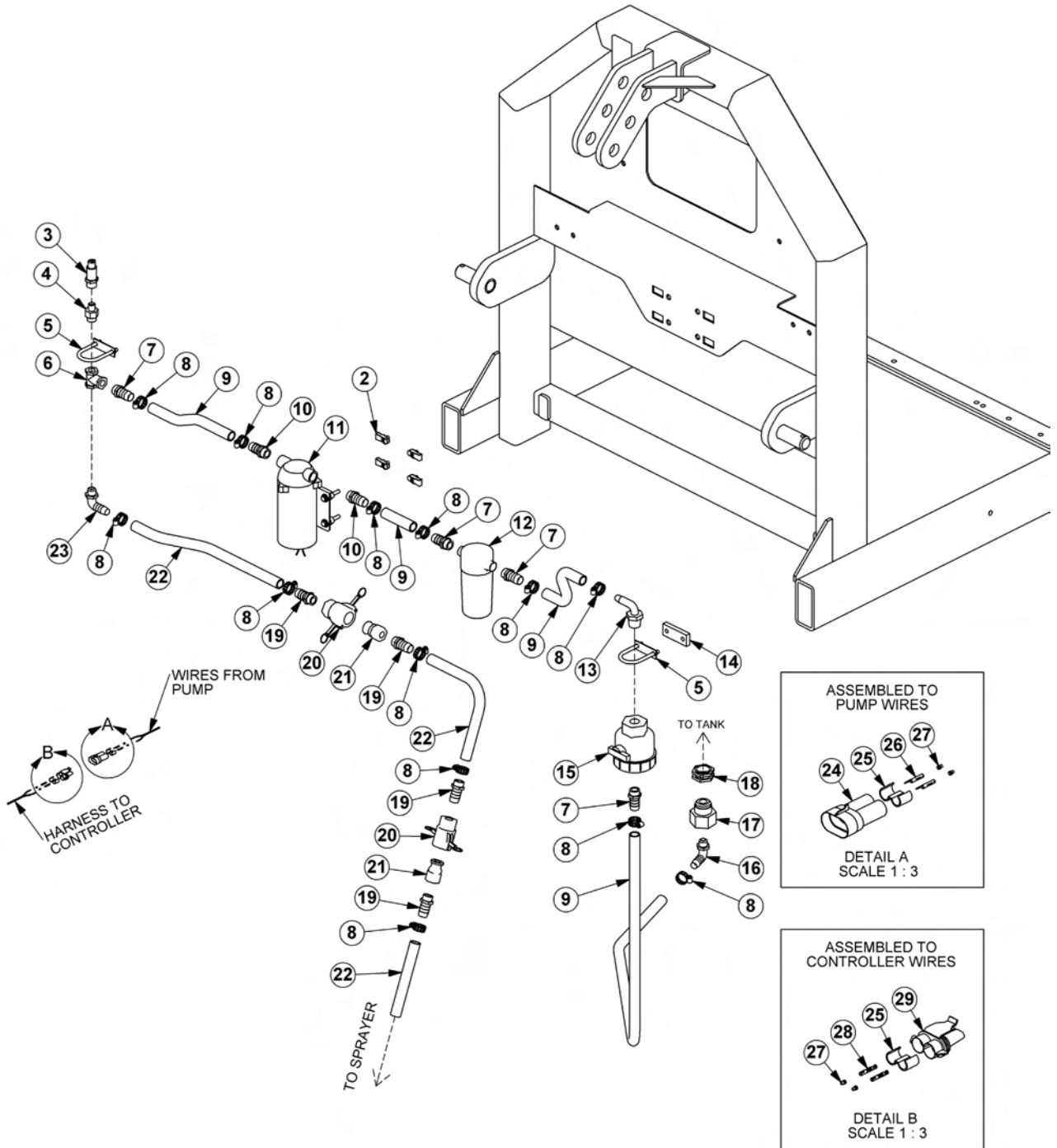
WETCUT 3PNT PLUMBING - 50IN MOWERS

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 SABER

WETCUT 3PNT PLUMBING - LARGE MOWERS



WETCUT 3PNT PLUMBING - LARGE MOWERS

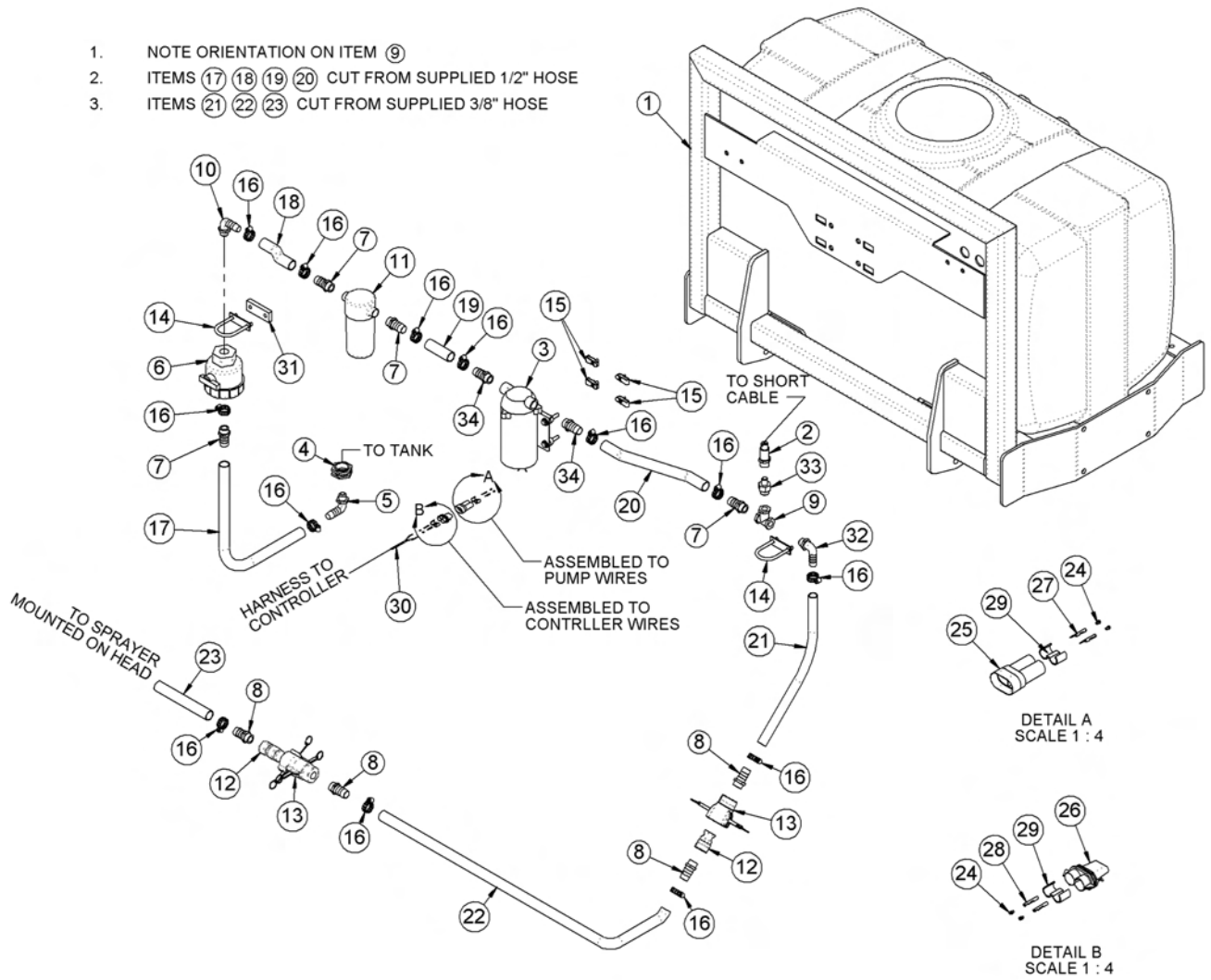
Continued...

| 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 SABER

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



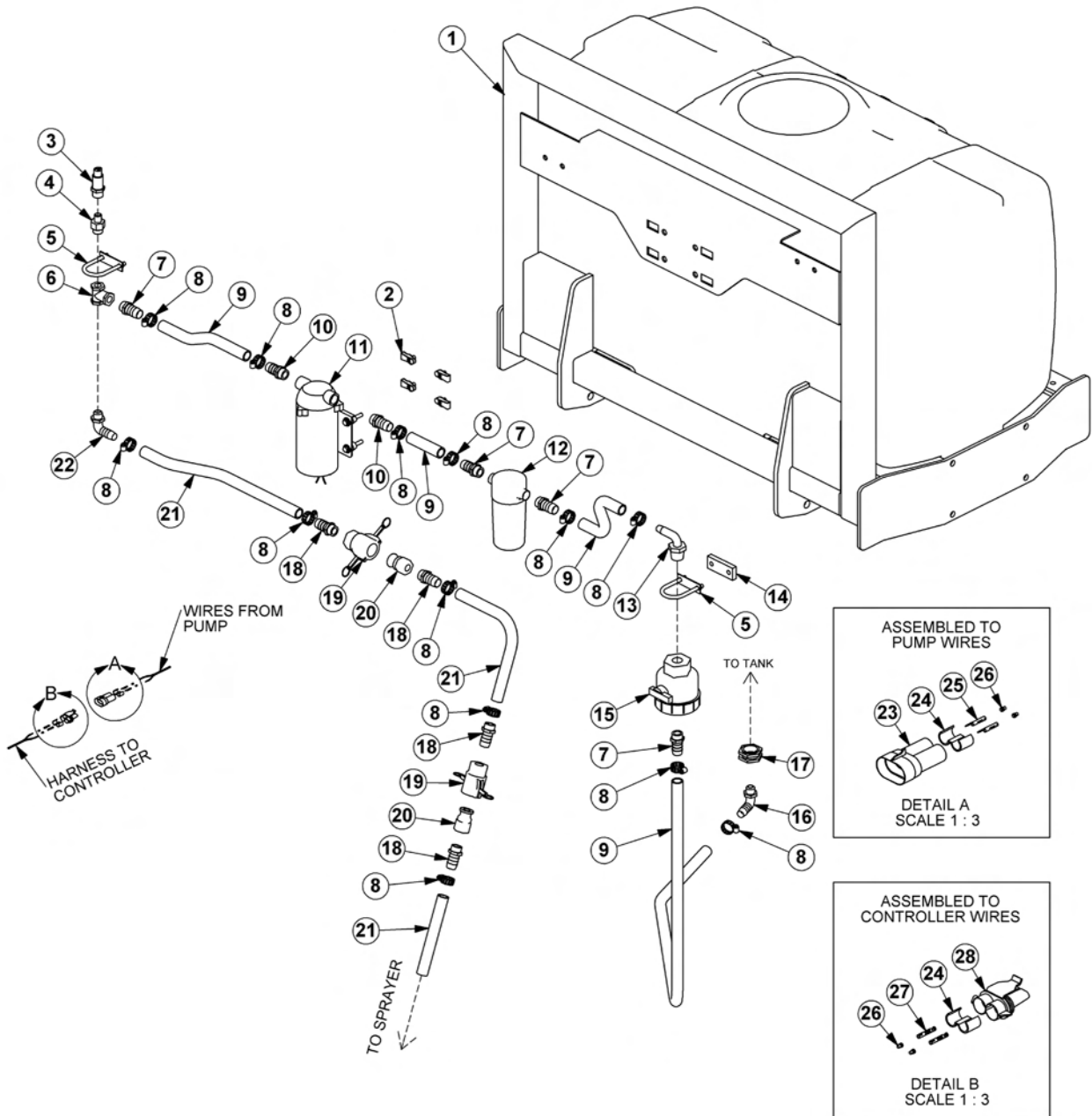
WETCUT FRONT PLUMBING - 50IN MOWERS

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 SABER

WETCUT FRONT PLUMBING - LARGER MOWERS



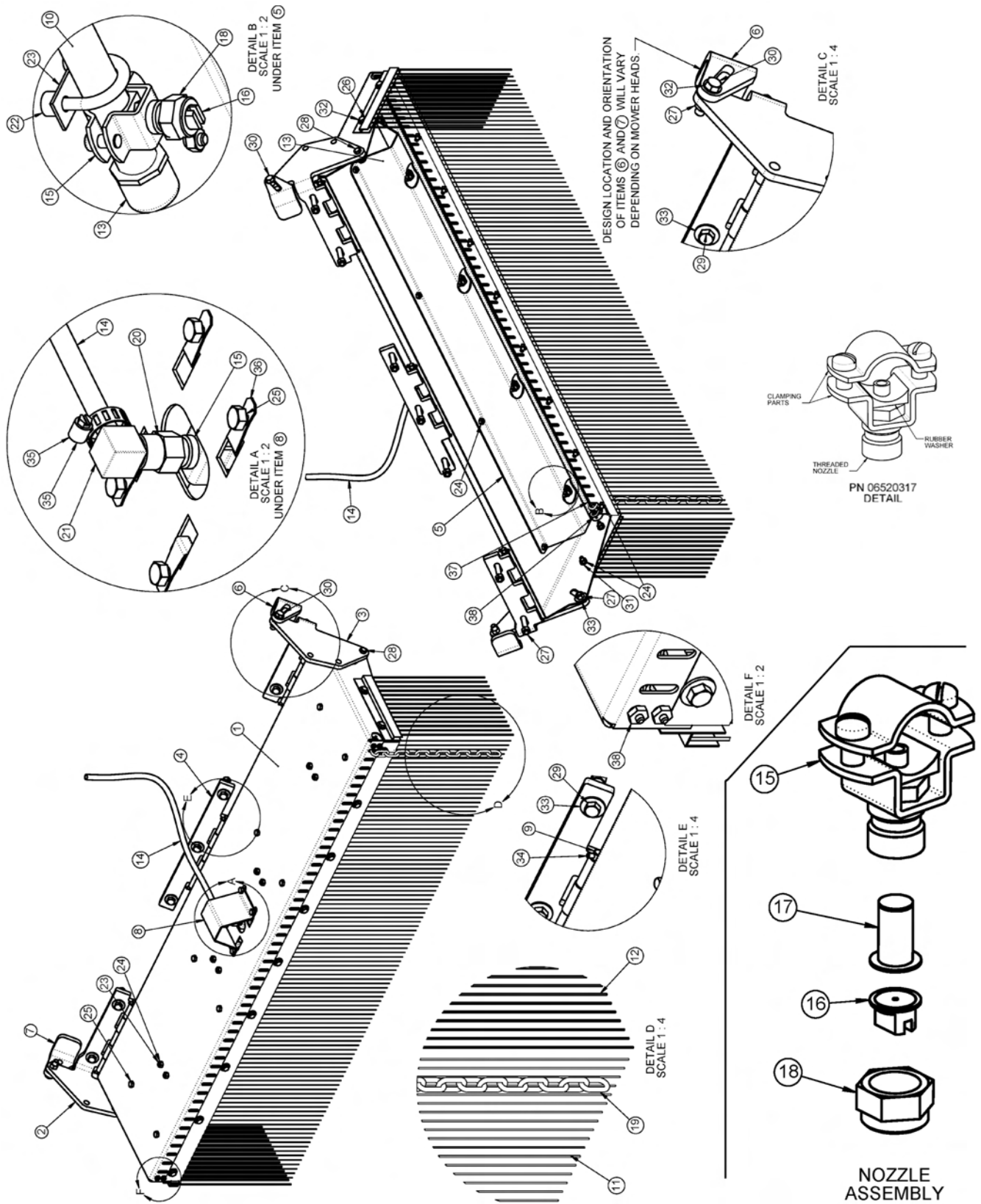
WETCUT FRONT PLUMBING - LARGER MOWERS

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 SABER

WETCUT 50IN SPRAYER HEAD ASSEMBLY



COMMON SABER

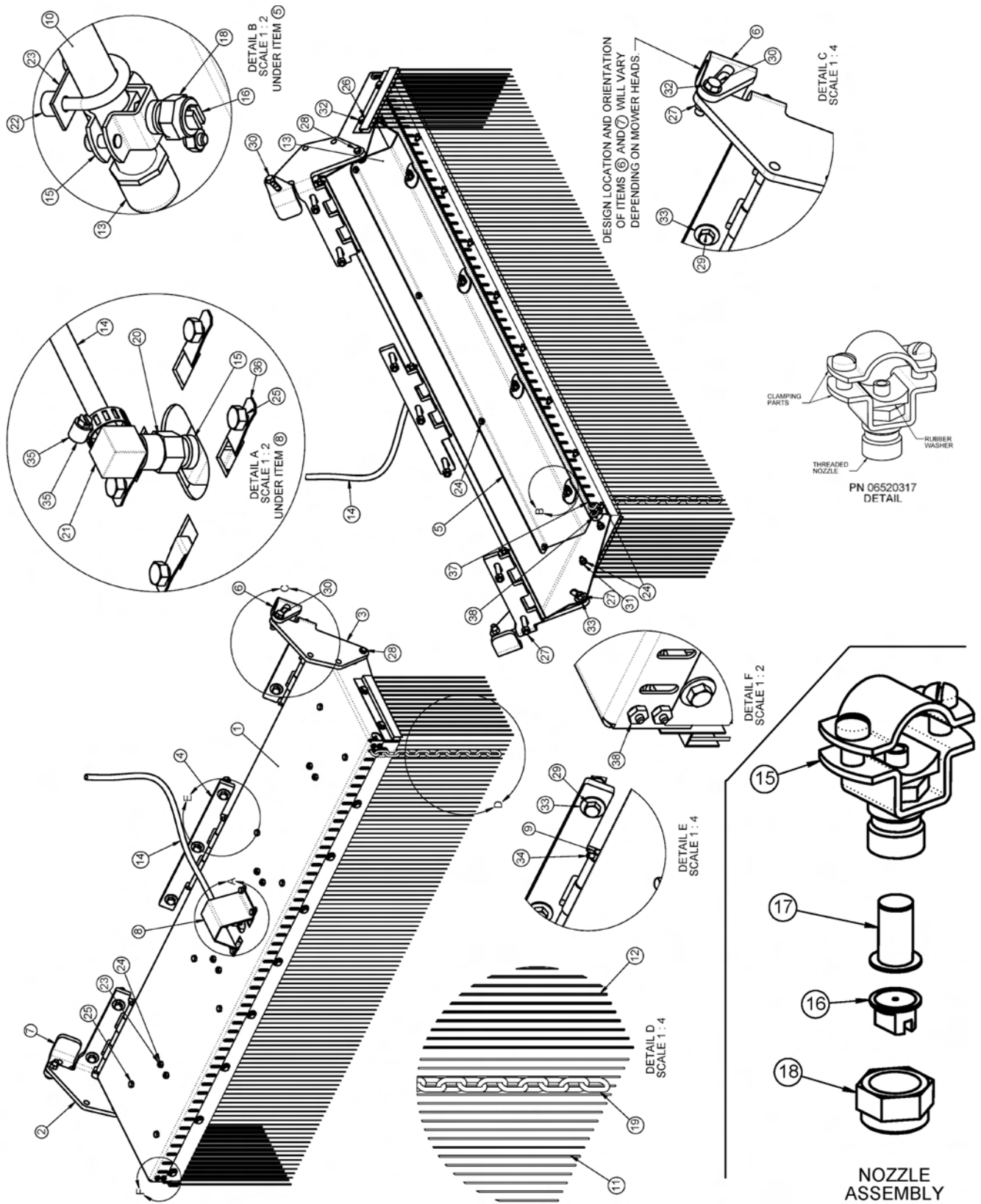
WETCUT 50IN SPRAYER HEAD ASSEMBLY

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 SABER

WETCUT 60IN SPRAYER HEAD ASSEMBLY



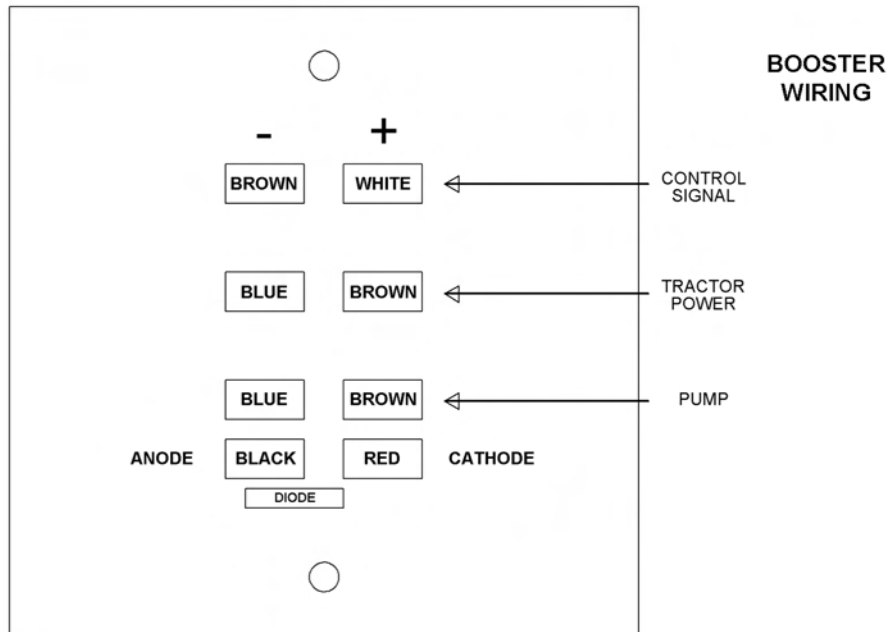
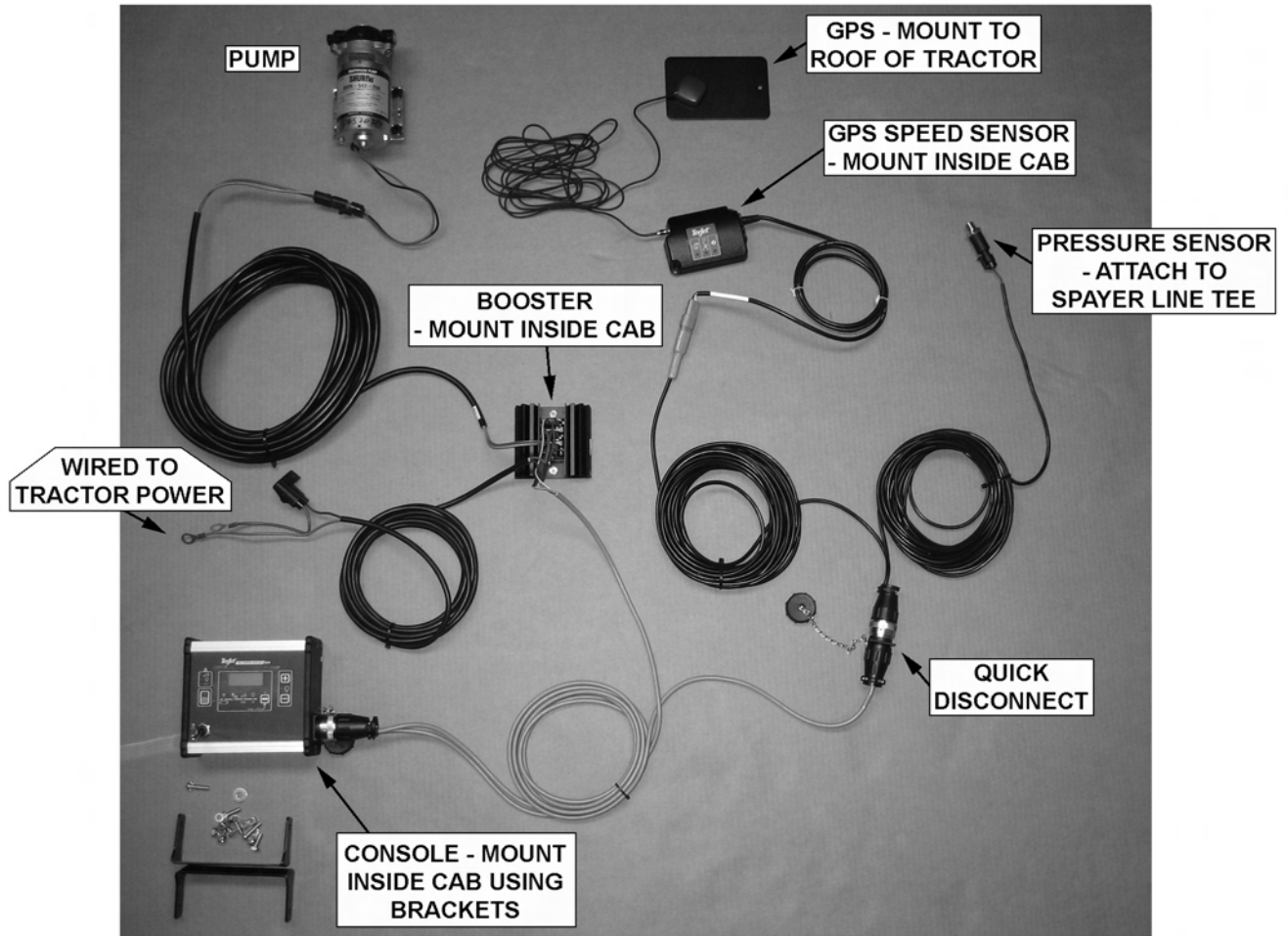
WETCUT 60IN SPRAYER HEAD ASSEMBLY

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 SABER

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!**



1012

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
© Tiger Corporation