

TO THE OWNER / OPERATOR / DEALER

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BEFORE YOU START!! Û æ æ Á @ Á æ c Á ^ • æ • Á } Á @ Á | 1 { } | Á æ á Á @ , } Á Á @ Á æ ~ æ È
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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.

<p>1.</p>	<p>2. NO RIDERS. NO CHILDREN OPERATORS.</p>	<p>3. USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, ROPS & OPS</p>	<p>4. BLOCK UP SECURELY BEFORE WORKING UNDER.</p>
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- 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
- 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.
- 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.
- 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
- 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.
- Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.
- 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.
- Before dismounting, secure implement in transport position or lower to ground.
 - Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
 - Never mount or dismount a moving vehicle. Crushing from rollover may cause serious injury or death.

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



Instructions for Boom Mower connection JD 6000M Series



Complete Boom mower.
Shown disconnected.



Take out 4 bolts in stow plate
and slide to far right, this is
the working position for stow.



Lift boom Swivel with over head
hoist and align with pin.



Attach 1/4" lines so that controls can be used
to help lift and line up boom arm fitting.



Connect end of primary boom arm to
swivel with horizontal pin.
Total time for assembly is 1 1/2 hours.



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

WWW.TIGERMOWERS.COM



Connect boom arm cylinder to top tab on swivel. Connect swing cylinder with vertical pin located on right side of swivel.



Attach hose clamp to side of swivel.



Run 1" lines on bottom 2 spaces of clamp and run 1/4" lines on top space. Measurement is 38" for 1" lines, clamp to clamp. Match 1/4".



Connect 1" hoses. Wrap hoses in teflon wrap. Wrap is located in the cab of tractor.



Connection complete - front side view.



Connection complete - back side view. **Approx. 4 hrs shop time to complete assembly.**

FORWARD

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

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

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

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

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

- If unable to correct the problem yourself, contact your local Tiger Dealer after gathering:
 - Machine model _____
 - Serial number _____
 - Dealer name _____
 - Detailed information about the problem including results of troubleshooting

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

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

MANUFACTURED BY:

Tiger Corporation

3301 N. Louise Ave.

Sioux Falls, SD 57107

1-800-843-6849

1-605-336-7900

www.tiger-mowers.com

DISTRIBUTED BY:

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1012

This symbol means:

CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.



SAFETY SECTION

Safety Section 1-1

SAFETY

GENERAL SAFETY INSTRUCTIONS AND PRACTICES

A 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 Implement. 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 responsibly.



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



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



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



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



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.*

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 this Manual and in the Safety Messages on the implement. Always follow the instruction in this manual and use good common sense to avoid hazards.



NOTE: *If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian. PN GS01*

SAFETY

SAFETY

Operator Safety

				
Read and understand Operator's Manual	Always wear Safety Glasses	Wear Hard Hat Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Safety Vest when operating on or near roads

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH DO THE FOLLOWING:

- **READ, UNDERSTAND** and **FOLLOW** Operator's Manual instructions, Warnings and Safety Messages.
- **WEAR SAFETY GLASSES**, safety shoes, hard hat, hearing protection and gloves when operating or repairing equipment
- **WEAR** appropriate breathing respirator when operating in dusty conditions to avoid respiratory diseases.
- **DO NOT WEAR** loose clothing or jewelry to avoid rotating parts entanglement injury.
- **DO NOT USE DRUGS** or **ALCOHOL** before or while operating equipment.
- **DO NOT ALLOW** anyone to operate equipment under the influence of drug or alcohol.
- **CONSULT** medical professional for medication impairment side effects.
- **STAY CLEAR** of hot surfaces such as Mufflers, hydraulic pumps, valves and tanks.
- **STAY ALERT**, prolonged operation can cause fatigue, **STOP** and **REST**.

GENERAL OPERATING SAFETY

VISIBILITY CONDITIONS WHEN MOWING:

- **OPERATE IN DAYLIGHT** or with lights that gives at least 100 yards clear visibility.
- **BE ABLE TO SEE** and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects.
- Avoid backing up while mowing, vision may be limited, severe damage or injury can occur.
- **DO NOT** run tractor in enclosed building without adequate exhaust ventilation.

GROUND SPEED WHEN MOWING:

- **NORMAL SPEED** range is between 1 to 2 mph(1-3 kph).
- **ADJUST MOWING SPEED** for terrain conditions and grass type, density and cut height.
- **REDUCE MOWING SPEED** when near steep slopes, ditches, drop-offs, overhead obstructions, power lines and to avoid debris and foreign objects.

TRACTOR and MOWER

- **DO NOT** operate the tractor or mower unless the equipment is maintained and operating properly.
- **DISCONTINUE OPERATION** if tractor or mower electrical and hydraulic controls do no function properly.
- **DISCONTINUE OPERATION** of the tractor if the braking or steering systems do not function properly.
- **DO NOT** operate the tractor or mower if there are any hydraulic leaks.

INSECT INFESTATION

- **DO NOT** operate in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.

PTO SPEED:

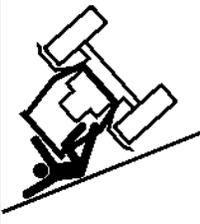
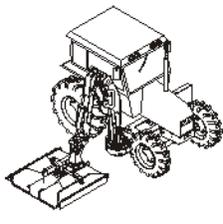
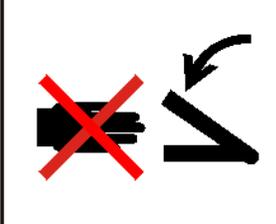
- **DO NOT EXCEED IMPLEMENT RATED PTO SPEED**
- **AVOID** exceeding rated PTO speeds that may result in broken drivelines or blade failures.

SAFETY SIGNS:

- **REPLACE** missing, damaged or unreadable safety signs immediately. **PN OSBM-01**

SAFETY

CRUSHING HAZARDS

				
Crushing injury from roll over	Use Cab Tractor With Boom Mowers	Always wear seatbelt	Pinch Point Hazard Keep Hands and body parts clear of pinch points	Crushing injury from boom or mower head falling



TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR, EQUIPMENT RUN OVER, ROLLOVER AND CRUSHING BY FALLING WING OR IMPLEMENT:

- USE ROPS and SEAT BELT equipped tractors for mowing operations.
- KEEP ROPS lock in up position.
- ALWAYS BUCKLE UP seat belt when operating tractor and equipment.
- ONLY OPERATE tractor and equipment while seated in tractor seat.

WHEN RAISING BOOM MOWER:

- Raise or lower ONLY WHILE SEATED in tractor seat with seat belt buckled.
- KEEP BYSTANDERS CLEAR of area TO AVOID crushing.
- KEEP sufficient clearance around implement and wings TO AVOID contacting buildings or overhead power lines.

LIFTED Equipment can fall from mechanical or hydraulic failure or inadvertent Control Lever movement.



TO AVOID EQUIPMENT FALLING while working near or under lifted boom, components and Mower Head:

- SECURELY SUPPORT or block up raised equipment, wings and components.
- BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components.
- KEEP BYSTANDERS CLEAR of raised boom or mower head until securely blocked up.

WHEN PARKING Implement and Tractor:

- LOWER Mower Head to the ground or BLOCK lifted parts before leaving equipment.
- NEVER leave implement unattended in a raised position.

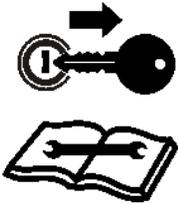


TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:

- NEVER ALLOW children to play on or around Tractor or Implement.
- DO NOT operate without operator CAB or OVERHEAD protection. Falling limbs and debris can cause injuries. *PN CHBM-01*

SAFETY

CONNECTING OR DISCONNECTING IMPLEMENT SAFETY

			
<p>Stop Tractor Remove Key Read Manual</p>	<p>Crushing Hazard Do Not get under boom when connecting mower head to boom</p>	<p>Stability Hazard Ensure 20% of tractor weight is on front wheels</p>	<p>Stability Hazard Ensure 1500lbs down force on left tire with boom extended</p>



TO AVOID SERIOUS INJURY OR DEATH FROM BEING CRUSHED BY TRACTOR OR IMPLEMENT:

WHEN connecting mower head to the boom:

- **KEEP BYSTANDERS AWAY** from tractor and mower.
- Ensure there is enough room to lift and swing the boom with out hitting objects

BEFORE connecting and disconnecting the mower head or boom:

- **STOP TRACTOR ENGINE**, place transmission into park, engage parking brake and remove key.

WHEN connecting and disconnecting the mower head or boom:

- **DO NOT** crawl or walk under raised mower head or boom. (*Refer to Instructions in Operation Section*)

WHEN CONNECTING IMPLEMENT DRIVELINE:(If equipped)

TO AVOID implement driveline coming loose during operation:

- **LUBRICATE** yoke spring locking collar to ensure it freely slides on PTO shaft.
- **SECURELY** seat yoke locking balls in PTO shaft groove.
- **PUSH** and **PULL DRIVELINE** on both the tractor and implement **PTO SHAFTS** to ensure it is **SECURELY ATTACHED**.

TO AVOID broken driveline during operations:

- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft. (*Refer to Instructions in Operation Section*)
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
- Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft.

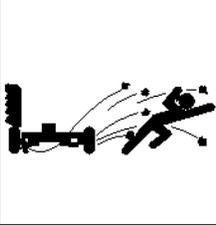
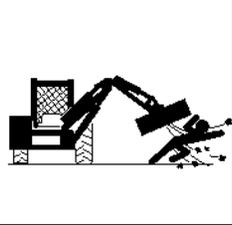
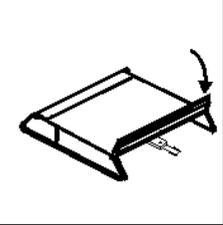
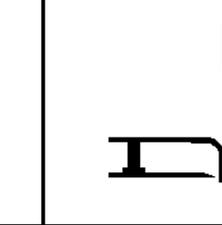
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**
Using a PTO adapter can cause:
 - Excessive vibration, thrown objects, blade and implement failures by doubling operating speed.
 - Increased working length exposing unshielded driveline areas and entanglement hazards. *PN CDBM-01*

SAFETY

SAFETY

THROWN OBJECTS HAZARDS

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Keep mower door closed when traffic comes within 300 feet	Inspect Area remove foreign objects	Do not let blades contact solid objects



ROTARY MOWERS CAN THROW OBJECTS 300 FEET OR MORE UNDER ADVERSE CONDITIONS.

TO AVOID SERIOUS INJURY OR DEATH TO OPERATOR OR BYSTANDERS FROM THROWN OBJECTS:

- KEEP bystanders 300 feet away

STOP MOWING IF PASSERSBY ARE WITHIN 300 FEET UNLESS:

- **ALL THROWN OBJECT SHIELDING** including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- Mower is close and parallel to ground without exposing blades.
- **MOWING AREA** has been inspected and foreign materials and debris have been removed.
- **DO NOT** shred or mow loose or previously cut material if **BYSTANDERS** are within 300 feet.
- **PASSERSBY** are inside enclosed vehicle.

INSPECT AREA FOR POTENTIAL THROWN OBJECTS BEFORE MOWING:

- **REMOVE** debris, rocks, wire, cable, metal objects and other foreign material from area.
Wire, cable, rope, chains and metal objects can be thrown or swing outside deck with great velocity:
 1. **MARK** objects that cannot removed.
 2. **AVOID** these objects when mowing.

HIGH GRASS and WEED AREA INSPECTION:

- **INSPECT** for and **REMOVE** any hidden large debris.
- **MOW** at Intermediate height
- **INSPECT** and remove remaining debris
- **MOW** at final height.

MOWER THROWN OBJECT SHIELDING:

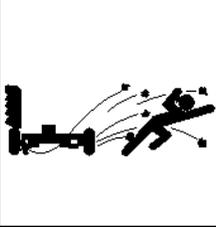
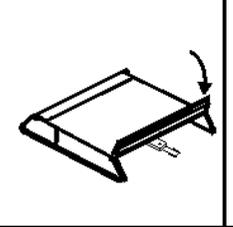
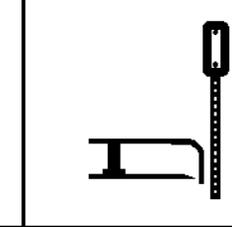
- **KEEP** all thrown object shielding including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- **DO NOT OPERATE** with any thrown object shielding missing, damaged or removed.

RIGHT OF WAY (Highway) MOWING

- Stop mowing if any bystander comes within 300 feet of the mower.
- No shielding is 100% effective in preventing thrown objects. To Reduce Possibility of Injury:
 1. **MAINTAIN MOWER SHIELDING**, side skirts, skid shoes, and blades in good operational condition,
 2. **RAISE CUTTING HEIGHT** to **6 INCHES** minimum,
 3. **INSPECT AREA** thoroughly before mowing to **REMOVE** potential **THROWN OBJECT HAZARDS**,
 4. **NEVER ALLOW BLADES** to **CONTACT SOLID OBJECTS** like wire, rocks, post, curbs, guardrails, or ground while mowing. *PN TOBM-01*

SAFETY

THROWN OBJECTS HAZARDS (Continued)

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Keep mower door closed when traffic comes within 300 feet	Inspect Area remove foreign objects	Do not let blades contact solid objects

MOWER OPERATION:

- **DO NOT** exceed mower's rated Cutting Capacity or cut non-vegetative material.
- **USE ENCLOSED TRACTOR CABS** when two or more mowers are operating in mowing area.
- Do Not mow in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.
- **ADJUST** mower head close and parallel to ground without exposing blades.
- **ADJUST** cutting **HEIGHT** to **AVOID BLADE CONTACT** with solid objects like wire, rocks, posts, curbs, guard rails and fixed obstructions.
- **CLOSE** Mower door and stop operating if bystanders come within 300 feet of the mower.
- Keep mower door closed when cutting close to the ground.
- Open door only to cut large brush or tree limbs. Close door immediately after cutting limb.
- **DO NOT** push mower head down onto material to cut it, use the front tips of the mower blades to cut into the material.
- **DO NOT** operate mower when mower is in transport position.
- **STOP MOWING** immediately if blades strike heavy objects, fixed structures, metal guard rails and concrete structures:
 1. **BLADES CAN FAIL** from impact and objects can be thrown with great velocity.
 2. **INSPECT** and **REPLACE** any damaged blades.
 3. **CHECK** blade carrier and **REPLACE** if damaged.
- **DO NOT** mow in standing water **TO AVOID** possible **BLADE FAILURE**.
- **AVOID MOWING** in reverse:
 1. **STOP PTO** and back up mower.
 2. **LOWER** mower, engage **PTO** and mow forward.
- **DISENGAGE** mower head and wait until **BLADES** stop rotating before raising mower to transport position.
- **DO NOT ENGAGE PTO** with mower in transport position.
- **STOP** mowing when **EXCESSIVE VIBRATION** occurs:
 1. **STOP PTO** and tractor **ENGINE**.
 2. **INSPECT** mower for vibration source.
 3. **REPLACE** any damage parts and bent or damaged **BLADES**. *PN TOBM-02*

SAFETY

SAFETY

RUN OVER HAZARDS

		
Operator run over hazard	Rider fall off run over hazard	Bystander run over hazard



TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR OR EQUIPMENT RUN OVER:

- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** locked in **UP** position.
- **ONLY** start tractor while seated in tractor seat.
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor seat.
- **NEVER ALLOW RIDERS** on tractor or implement.
- When not mowing stow Boom and Mower head in transport location before moving.

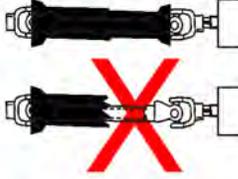
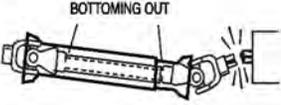
WHEN MOUNTING AND DISMOUNTING TRACTOR:

- **ONLY** mount or dismount when tractor and moving parts are stopped.
- **STOP ENGINE AND PTO**, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor. *PN ROBM-01*

SAFETY

SAFETY

PTO ENTANGLEMENT HAZARDS

	 <p>PTO (Barra Gitoria)</p>		 <p>BOTTOMING OUT</p>
<p>Entanglement hazard Do Not approach or touch a rotating PTO driveshaft</p>	<p>Make sure PTO shaft is securely attached Do Not Use PTO Adapter</p>	<p>DO NOT Operate if PTO shields are damaged or missing</p>	<p>Make sure PTO shafts are proper length</p>



KEEP AWAY FROM ROTATING DRIVELINES AND ELEMENTS TO AVOID SERIOUS INJURY OR DEATH:

STAY AWAY and **KEEP** hands, feet and body **AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.

- **STOP, LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped.
- **ROTATING COMPONENTS CONTINUE** to **ROTATE** after the PTO is shut off.

PTO SHIELDING:

TO AVOID SERIOUS INJURY OR DEATH FROM ENTANGLEMENT WHEN OPERATING IMPLEMENT:

- **KEEP PTO** shields, integral driveline shields and input shields installed
- **DO NOT OPERATE** mower without shields and guards in place or missing
- **REPAIR OR REPLACE** if damage, broken or missing
- **ALWAYS REPLACE GUARDS** that have been removed for service or maintenance.
- Do Not use PTO or PTO guard as a step.

TO AVOID broken driveline during operations:

- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft. *(Refer to Instructions in Operation Section)*
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft
- **AVOID** sharp turns or lift mower to heights to cause driveline "knocking".
- Lubricate driveshaft-telescoping components weekly.

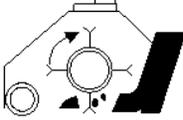
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**

Using a PTO adapter can cause excessive vibration, thrown objects, blade and implement failures by doubling operating speed. Increased working length exposing unshielded driveline areas. *PN PE01*

SAFETY

MOWER BLADE CONTACT HAZARDS

					
Do not put fingers underneath mower	Do not put hands underneath Flail Mower	Do not put foot underneath mower	Do not put foot underneath Flail Mower	Shearing Hazard from Sickle blades	Stop Tractor Remove Key Read Manual



KEEP AWAY FROM ROTATING BLADES TO AVOID SERIOUS INJURY OR DEATH FROM BLADE CONTACT:

- **STAY AWAY** and **KEEP HANDS, FEET** and **BODY AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.
- **DO NOT** put hands or feet under mower decks
- **STOP** rotating **BLADES** disengage mower switch and PTO and wait for blade to stop rotating before raising mower head.
- **DO NOT** approach Sickle Bar head until Tractor Engine has been shut off.
- **STOP LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped. *PN MBBM-01*

SAFETY

HIGH PRESSURE OIL LEAK HAZARD

			
<p>High pressure oil penetrating skin</p>	<p>High pressure oil eroding skin</p>	<p>Using cardboard to check for oil leaks</p>	<p>Tank contents under pressure. Allow oil to cool before slowly removing cap</p>



TO AVOID SERIOUS INJURY OR DEATH FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENERATING SKIN:

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.

WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- **ALWAYS WEAR** safety glasses and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.

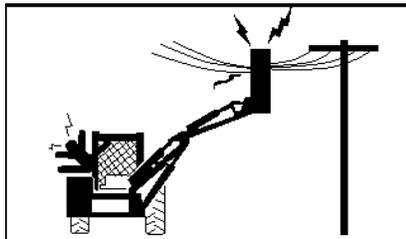
Use caution when removing Hydraulic Tank cap.

- Tank contents maybe under pressure
- Allow oil to cool before removing cap.
- Relieve oil pressure before removing cap slowly.
- Stay away from hot oil that may spray from tank.

PN HPBM-01

SAFETY

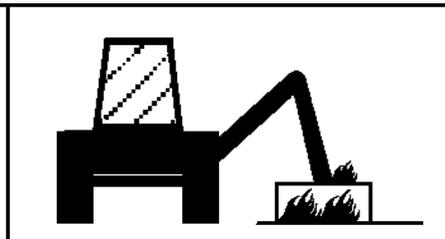
ELECTRICAL & FIRE HAZARDS



Mower head or Boom contacting overhead electrical lines



Strike and explosion Hazard
Blades Contacting Utility or Gas Lines



Fire Hazard Do Not operate near fires. Keep debris away from hydraulic pumps and valves



TO AVOID SERIOUS INJURY OR DEATH FROM ELECTRICAL CONTACT WHEN WORKING AROUND ELECTRICAL POWER LINES, GAS LINES AND UTILITY LINES:

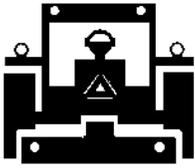
- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **KEEP** all raised wings at a 10 feet or greater distance from all power lines and overhead obstructions.
- **DO NOT** allow mower to contact with any Utility, Municipal, or type of structures and obstructions.
- **CALL 811** and 1-800-258-0808 for identify buried utility lines.

FIRE PREVENTION GUIDELINES while Operating, Servicing, and Repairing Mower and Tractor to reduce equipment and grass fire Risk:

- **EQUIP** Tractor with a **FIRE EXTINGUISHER**
- **DO NOT OPERATE** mower on a tractor equipped with under frame exhaust
- **DO NOT SMOKE** or have open flame near Mower or Tractor
- **DO NOT DRIVE** into burning debris or freshly burnt area
- **AVOID FIRE IGNITION** by not allowing mower blade to contact solid objects like metal or rock.
- **DO NOT** operate if oil is leaking. Repair oil leak and remove all accumulated oil before operating.
- **CLEAR** any grass clippings or debris buildup around mower hydraulic pumps, valves or tanks.
- **SHUT OFF ENGINE** while refueling. *PN EFBM-01*

SAFETY

TRANSPORTING HAZARDS

		
<p>Use SMV signs and Flashing Lights</p>	<p>Loss of Control Stopping Hazard</p>	<p>Loss of Control Speeding Hazard</p>

WARNING TO AVOID SERIOUS INJURY AND DEATH WHEN TOWING OR TRANSPORTING EQUIPMENT:

- **KEEP** transport speed **BELOW** 20 mph to maintain control of equipment.
- **REDUCE SPEED** on inclines, on turns and in poor towing conditions.
- **DO NOT TOW** with trucks or other vehicles.
- **USE** only properly sized and equipped tractor for towing equipment.
- **FOLLOW** all local traffic regulations.

TRACTOR REQUIREMENTS FOR TOWING OR TRANSPORTING IMPLEMENTS:

- **ONLY TRANSPORT** with tractor with **ROPS** in the raised position.
- **USE** properly sized and equipped tractor that exceeds implement weight by at least 20%.
- **KEEP** 20% of tractor weight on front wheels to maintain safe steering.

BEFORE TRANSPORTING OR TOWING IMPLEMENT:

TRACTOR INSPECTION:

- **CHECK** steering and braking for proper operation and in good condition.
- **CHECK SMV** sign, reflectors and warning lights for proper operation and visibility behind unit.
- **CHECK** that your driving vision is not impaired by tractor, cab, or implement while seated in tractor seat.
- **ADJUST** your operating position, mirrors, and implement transport for clear vision for traveling and traffic conditions.

PREPARE IMPLEMENT FOR TRANSPORTING OR TOWING:

- Store Boom and Mower in transport positions and engage transport locks if equipped.

DETERMINE STOPPING CHARACTERISTICS OF TRACTOR AND IMPLEMENT FOR TRANSPORTING OR TOWING:

BRAKING TESTS:

- Stopping distance with implement attached may increase
- Observe **STOPPING** distances increases with increased speeds.
- **DETERMINE** the maximum safe transport speed that does not exceed 20 mph.
- Reduce travel speed in wet or icy roads, stopping distances increase.

DETERMINE MAXIMUM TURNING SPEED BEFORE OPERATING ON ROADS OR UNEVEN GROUND:

- **TEST** equipment in slowly increasing speed in turns to determine it can be operated at higher speeds.
- **USE REDUCED** turning speeds in sharp turns to avoid equipment turning over.

WHEN TOWING OR TRANSPORTING EQUIPMENT:

- Always **WEAR SEAT BELT** when operating or transporting mower.
- **USE** low speeds to avoid overturn with raised wings.
- **USE** low speeds and gradual steering on curves, hills, rough or uneven surfaces and on wet roads.
- **TURN ON** tractor **FLASHING WARNING LIGHTS**.
- **ALLOW** clearance for implement swing while turning.

KEEP raised boom mower 10 feet or greater distance from all power lines and overhead obstructions. *PN THBM-01*

SAFETY

SAFETY

HAZARDS WITH MAINTENANCE OF IMPLEMENT

				
Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners	Lower mower head to ground or block up before servicing	Stop engine remove key before conducting maintenance	Set mower head securely on the ground before servicing blades	Thrown Objects Hazard Ensure blades rotate clockwise viewed from above mower head

WARNING

AVOID SERIOUS INJURY OR DEATH FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:

- **STOP ENGINE AND PTO**, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor.
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.
- **PUSH** and **PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **DISCONNECT Pump solenoid valve or PTO driveline connection before servicing mower head.**
- **WEAR SAFETY GLASSES, PROTECTIVE GLOVES** and follow **SAFETY PROCEDURES** when performing service, repairs and maintenance on the implement:
- Always **WEAR** protective **GLOVES** when handling blades, knives, cutting edges or worn component with sharp edges.
- Always **WEAR GLOVES** and **SAFETY GLASSES** when servicing hot components
- **AVOID CONTACT** with hot hydraulic oil tanks, pumps, motors, valves and hose connection surfaces.
- **SECURELY** support or **BLOCK UP** raised implement, framework and lifted components before working underneath equipment.
- **FOLLOW INSTRUCTIONS** in maintenance section when replacing hydraulic cylinders to prevent component falling.
- **STOP** any implement movements and **SHUT-OFF TRACTOR** engine before doing any work procedures.
- **USE** ladder or raised stands to reach high equipment areas inaccessible from ground.
- **ENSURE** good footing by standing on solid flat surfaces when getting on implement to perform work.
- **FOLLOW** manufacturer's instructions in handling oils, solvents, cleansers, and other chemical agents.
- **DO NOT** change any factory-set hydraulic calibrations to avoid component or equipment failures.
- **DO NOT** modify or alter implement, functions or components.
- **DO NOT WELD** or repair rotating mower components. These may cause vibrations and component failures being thrown from mower.

PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN IMPLEMENT MAINTENANCE SECTION:

- **INSPECT** for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** any worn or broken parts with authorized service parts.
- Inspect mower blade spindle to ensure bearing preload. If loose repair before operating.
- **LUBRICATE** unit as specified by lubrication schedule
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.

BLADE INSPECTION:

- Inspect blade carrier and blades daily.
- Check blade and blade carrier **BOLT TORQUE** daily. Loose bolts can cause blade or blade bolt failures.
- **REPLACE**, bent, damage, cracked and broken blades immediately with new blades.
- **AVOID** blade failures and thrown broken blades. **DO NOT** straighten, weld, or weld hard-facing blades.

SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Deflectors, Chain Guards, Steel Guards, Gearbox Shields, and PTO integral shields, Bands, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.
- Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. **PN HMBM-01**

SAFETY

PARTS INFORMATION

PARTS INFORMATION

Tiger mowers use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain 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. (SPTM-1)

SEE YOUR TIGER DEALER

Operator's & Parts Manuals



www.algqr.com/tpm

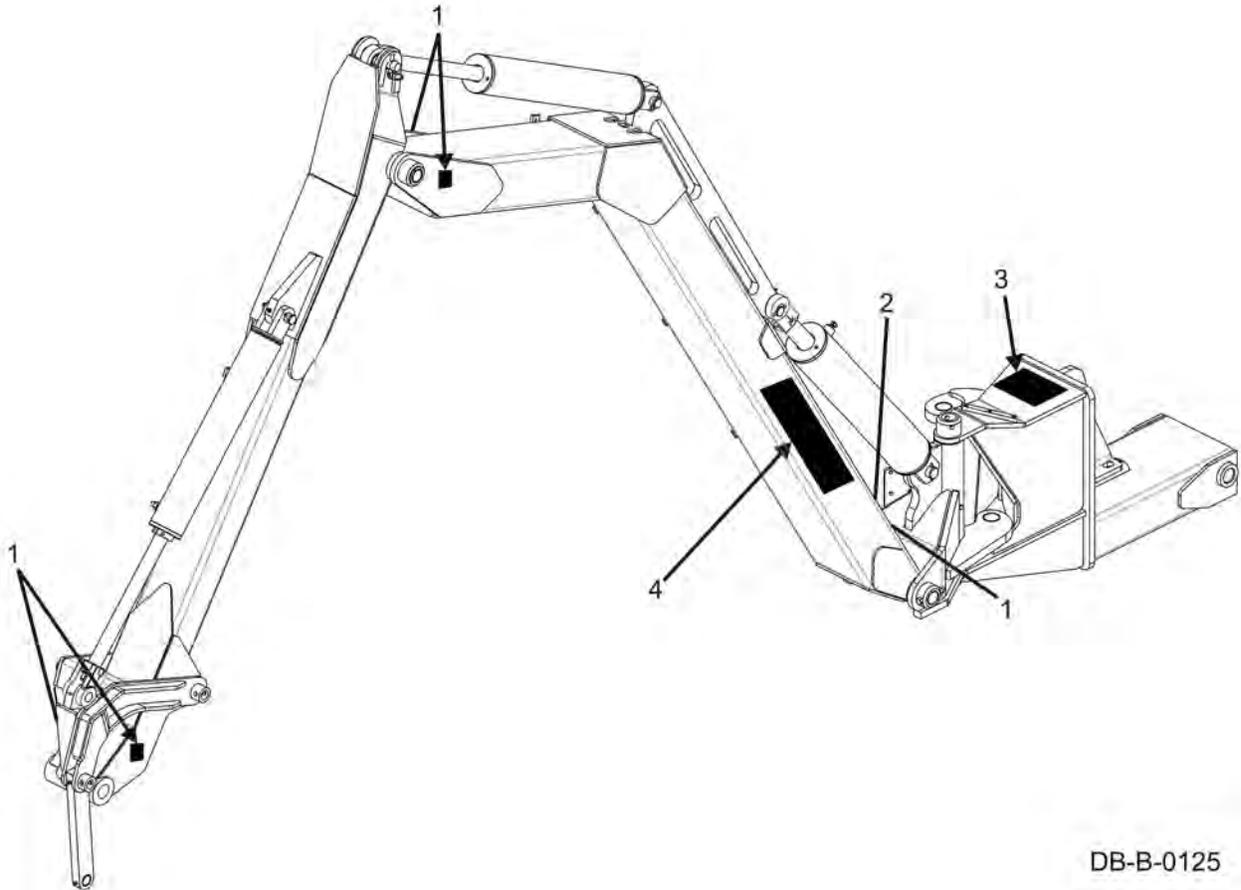
SAFETY

SAFETY

Decal Location

NOTE: Tiger supplies safety decals on this product to promote safe operation. Damage to the decals may occur while in shipping, use, or reconditioning. Tiger cares about the safety of its customers, operators, and bystanders, and will replace the safety decals on this product in the field, free of charge (Some shipping and handling charges may apply). Contact your Tiger dealer to order replacement decals.

Boom Arm

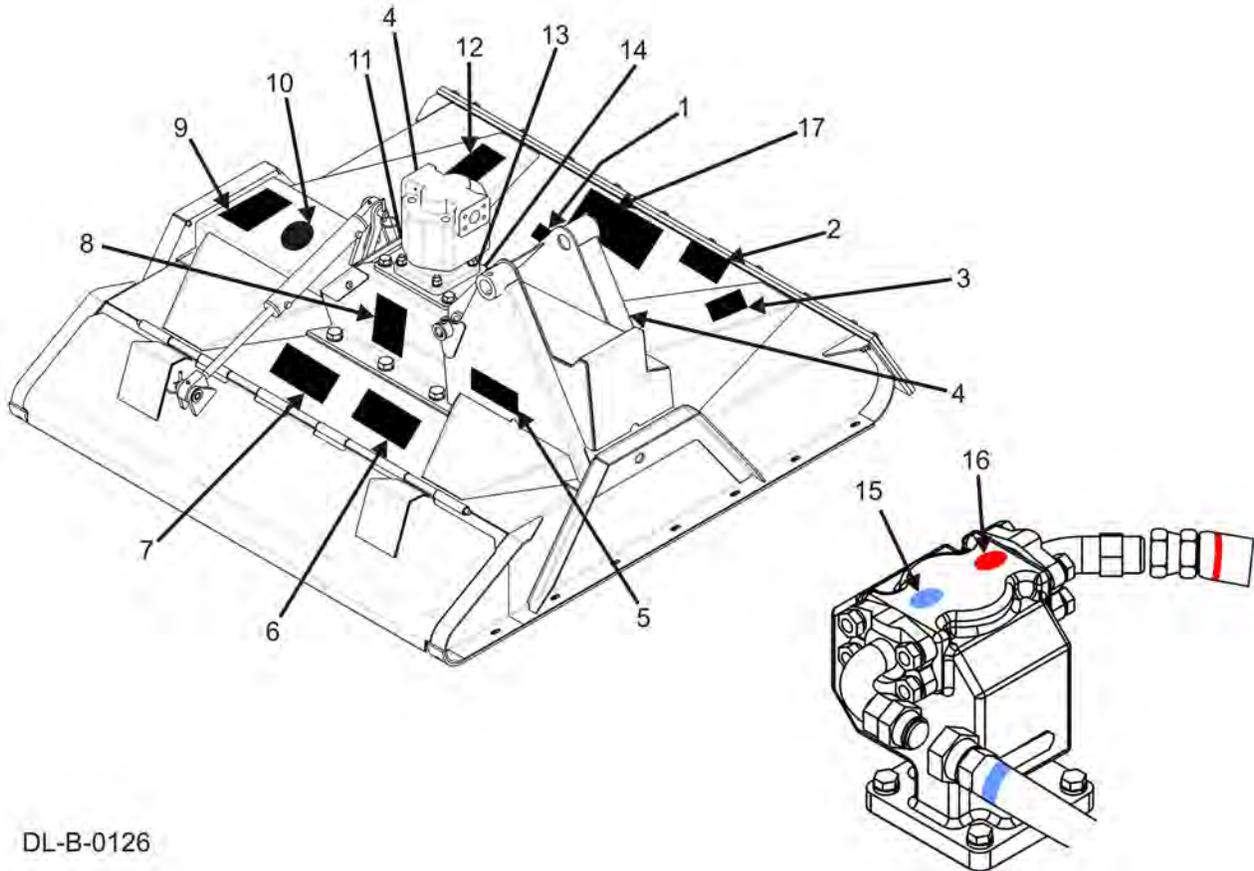


DB-B-0125

ITEM	PART NO.	QTY.	TYPE	DESCRIPTION
1.	02962764	5	WARNING	Pinch Points
2.	02965262	1	WARNING	Hydraulic Oil Hazard
3.	02962765	1	DANGER	Crushing Hazard
4.		1	LOGO	Name

SAFETY

50" & 60" Rotary



DL-B-0126

ITEM	PART NO.	QTY.	TYPE	DESCRIPTION
1.	6T3237	1	WARNING	Replace Blades
2.	24028	1	WARNING	Thrown Object Hazard
3.	D637	1	WARNING	Disconnect Hydraulic Solenoid
4.	42399	2	REFLECT	Red Reflector
5.	4240006	1	REFLECT	Amber Reflector
6.	D668	1	INSTRUCT	Lubrication Chart
7.	33224	1	DANGER	Blades, Thrown Object
8.	D619	1	WARNING	Blade Rotation
9.		1	LOGO	Made in the USA
10.		1	LOGO	Tiger Genuine Parts
11.	22839	1	INSTRUCT	Use Hand Grease Gun
12.	32709	1	WARNING	Use Genuine Tiger Parts
13.	6T3221	1	INSTRUCT	Lubrication Instructions
14.	nfs	1	SERIAL PLATE	Serial Number Plate
15.	06550058	1	INSTRUCT	Blue Dot
16.	06550057	1	INSTRUCT	Red Dot
17.		1	LOGO	Name

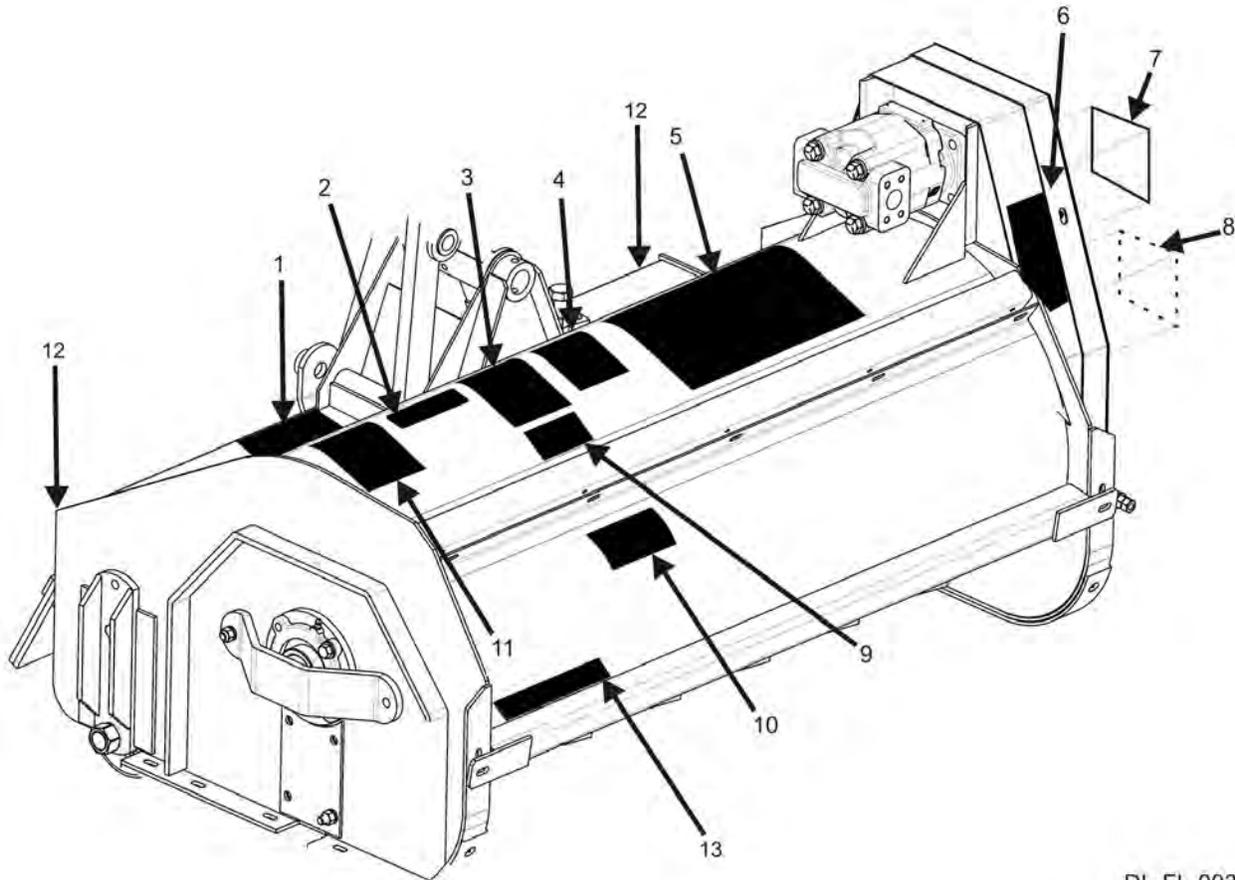
SAFETY

BOOM

Safety Section 1-17

SAFETY

50" & 63" Flail



DL-FL-0031

ITEM	PART NO.	QTY.	TYPE	DESCRIPTION
1.	24028	1	DANGER	Thrown Object Hazard, Deflectors
2.	32709	1	WARNING	Use Genuine Tiger Parts
3.	33224	1	DANGER	Blades, Thrown Object
4.	D637	1	WARNING	Disconnect Hydraulic Solenoid
5.		1	LOGO	Tiger Logo
6.	00758194	1	WARNING	Pinch Point Hazard
7.		1	LOGO	50" Logo
		1	LOGO	63" Logo
8.	D646	1	DANGER	Guard Missing, Do Not Operate
9.	D655	1	INSTRUCT	Lube Chart
10.	TB1011	1	DANGER	Thrown Object Hazard, Shield
11.	6T3236	1	LOGO	Made in the USA
12.	42399	2	REFLECT	Red Reflector
13.	4240006	1	REFLECT	Amber Reflector
14.	nfs	1	SERIAL PLATE	Serial Number Plate

SAFETY

SAFETY



WARNING

TO AVOID SERIOUS INJURY OR DEATH FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:

- DO NOT OPERATE equipment with oil or fuel leaks.
- KEEP all hydraulic hoses, lines and connections in good condition and tight before applying system pressure.
- Relieve hydraulic pressure before disconnecting lines or working on the system.
- REMOVE and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE. WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- DO NOT use hands to check for leaks.
- ALWAYS WEAR safety glasses and impenetrable gloves.
- USE paper or cardboard to search for leaks.
- KEEP hands and body AWAY from pin holes and nozzles ejecting hydraulic fluid.
- Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.

02965262

DANGER
CRUSHING AND PINCH POINTS
MOVING MACHINERY PARTS CAN PINCH OR CRUSH OR FALL-WHICH MAY CAUSE INJURY OR DEATH.
02962765

SAFETY

SAFETY

SAFETY

⚠ DANGER

THROWN OBJECT HAZARD

TO AVOID SERIOUS INJURY OR DEATH:
DO NOT OPERATE if Thrown Object Shielding is damaged or missing.

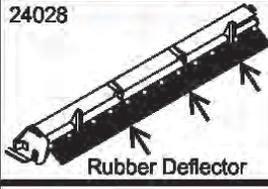
- Maintain Rubber Deflectors in good condition.
- Inspect Rubber Deflectors frequently.

MAINTAIN Thrown Object Shielding

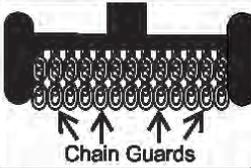
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24028



Rubber Deflector



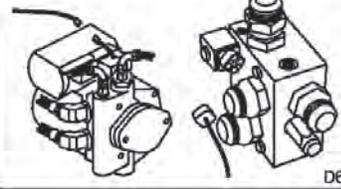
Chain Guards

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH FROM INADVERTENT MOWER HEAD START UP:

TO AVOID SERIOUS INJURY OR DEATH FROM INADVERTENT MOWER HEAD START UP:

- Disconnect the hydraulic solenoid BEFORE servicing the tractor or mower.



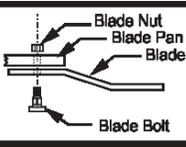
D637

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH FROM BLADE ATTACHMENT FAILURE:

TO AVOID SERIOUS INJURY OR DEATH FROM BLADE ATTACHMENT FAILURE:

- Torque 1-1/8" blade bolt to 800 ft lbs.
- ALWAYS replace blades in pairs.
- ALWAYS replace blades with new bolts and nuts.



Blade Nut
Blade Pan
Blade
Blade Bolt

6T3237

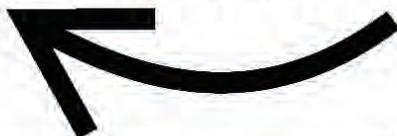
⚠ WARNING

TO AVOID SERIOUS INJURY AND DEATH FROM THROWN OBJECTS:

TO AVOID SERIOUS INJURY AND DEATH FROM THROWN OBJECTS:

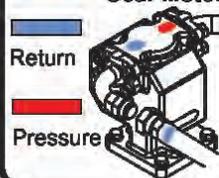
- MAKE CERTAIN blades rotate the correct direction.

BLADE ROTATION



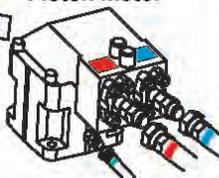
D619

Gear Motor



Return
Pressure

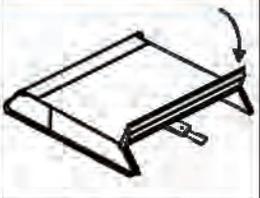
Piston Motor



SAFETY

SAFETY

⚠ DANGER



THROWN OBJECTS HAZARD

Mower can throw objects up to 300 feet. TO AVOID SERIOUS INJURY OR DEATH to operator or bystanders:

- CLOSE MOWER DOOR and STOP operating if bystanders or traffic come within 300 feet.
- KEEP door fully closed when cutting grass and weeds.
- OPEN door ONLY to cut large brush. Close door immediately after.
- DO NOT operate with door removed.
- KEEP door in place and in good condition during operation.
- Deflectors are SUBJECT TO WEAR. Replace if worn or damaged.
- ALWAYS transport with door closed. 33224

ENTANGLEMENT HAZARD



- STAY AWAY and KEEP hands, feet and body AWAY from rotating blades, drivelines and parts that continue to move after power shut-off. WAIT until all moving elements have stopped.
- STOP, LOOK and LISTEN for rotating motion before approaching implement.

SAFETY

SAFETY

⚠ WARNING

Non-genuine parts can fail catastrophically. TO AVOID SERIOUS INJURY OR DEATH:

- ONLY use genuine TIGER replacement parts.
- Non-genuine parts can fail creating hazardous conditions for operator and bystanders.

Contact local dealer or TIGER about repair parts at:

3301 N. LOUISE AVE.,
SIOUX FALLS, SD 57107 www.algqr.com/tpm
Customer Service: 800-843-6849.
Email: feedback@tiger-mowers.com 32709 1



IMPORTANT

BE AWARE BE ALERT BE ALIVE	BE TRAINED Before Operating this Mower
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To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices. Alamo Group Companies as well as AEM and FEMA provide training material that is critical for your Safety and the Safety of others when operating this equipment. www.algqr.com/tbv

Make these Safety Procedures an important part of every workday. Read and understand the Operator's Manual. Do not let untrained individuals operate this equipment. Contact your Dealer, AEM (www.aem.org), FEMA (314-878-2304, www.FarmEquip.org), or Alamo Group (www.Alamo-Group.com) for information on training material or courses that provide training in Safer Operating Practices for Mowers. 32709 2 32709



SAFETY

SAFETY

⚠ WARNING	
PINCH POINT HAZARD	
TO AVOID SERIOUS INJURY: <ul style="list-style-type: none">• DO NOT OPERATE with Belt Shield removed.	
00758194	

⚠ DANGER

D646
GUARD MISSING DO NOT OPERATE

⚠ DANGER	
THROWN OBJECTS HAZARD	
Mower can throw objects up to 300 feet. TO AVOID SERIOUS INJURY OR DEATH to operator or bystanders: <ul style="list-style-type: none">• DO NOT operate with Shield removed.• KEEP Shield in place and in good condition during operation.	
Tb1011	

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 Training Requirements

Title 29, Code of Federal Regulations Part 1928.57(a)(6). www.osha.gov

Operator instructions. At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee who operates an agricultural tractor and implements in the safe operating practices and servicing of equipment with which they are or will be involved, and of any other practices dictated by the work environment.

Keep all guards in place when the machine is in operation;

Permit no riders on equipment

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.

Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

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.
8. Require that the employee operator stop operation if bystanders or passersby come within 300 feet.

Child Labor Under 16 Years of Age

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

ASSEMBLY SECTION

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

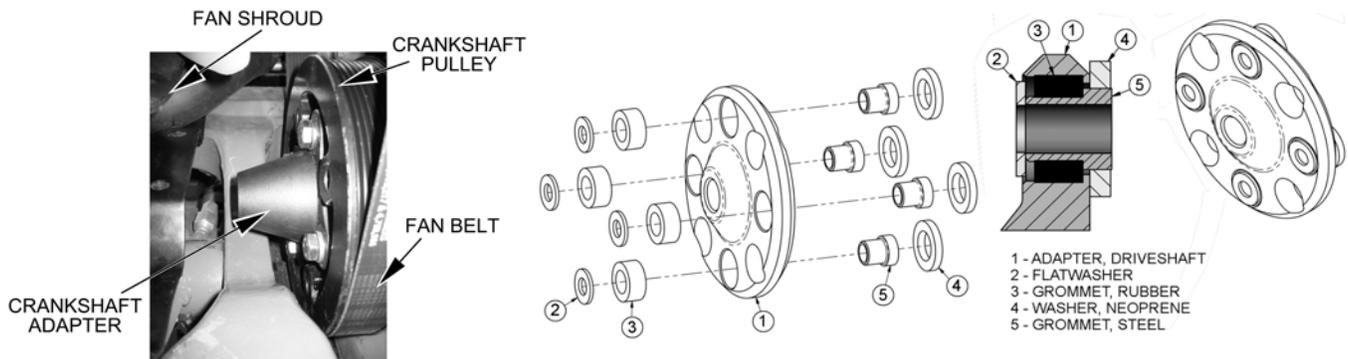
- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where mainframe and pump mount will be attached.
- E. Remove any front weights and weight supports.
- F. Raise the tractor onto jack-stands and remove the right and left rear wheels.

(ASM-JD-0001)

CRANKSHAFT ADAPTER

If necessary, remove the four capscrews from the crankshaft pulley. Then install the crankshaft adapter to the pulley with capscrews and lockwashers as shown in the Parts Section.

(ASM-JD-0051)



ASSEMBLY

FRONT CRANKSHAFT PULLEY

Tiger has found that the front crankshaft pulley used by John Deere will not allow for the installation of a front drive system. You will need to order a different pulley, washer and bolt from John Deere to allow for a front drive to be installed on your tractor.

Inspect the front pulley on your tractor to verify you have the correct pulley needed to mount the spacer plate. If your pulley has the (4) four holes needed to mount the spacer, your pulley is the correct one needed. If your pulley does not have the (4) four holes in the pulley, you will need to order the correct pulley, washer and bolt from John Deere.

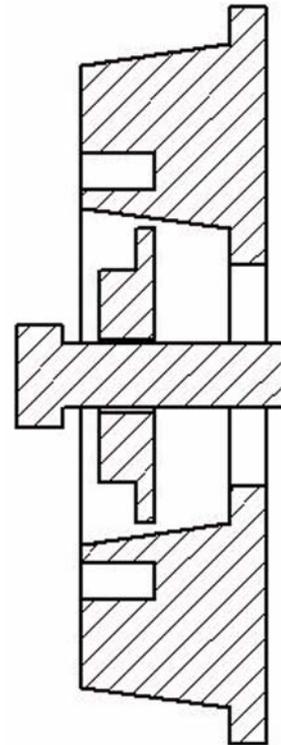
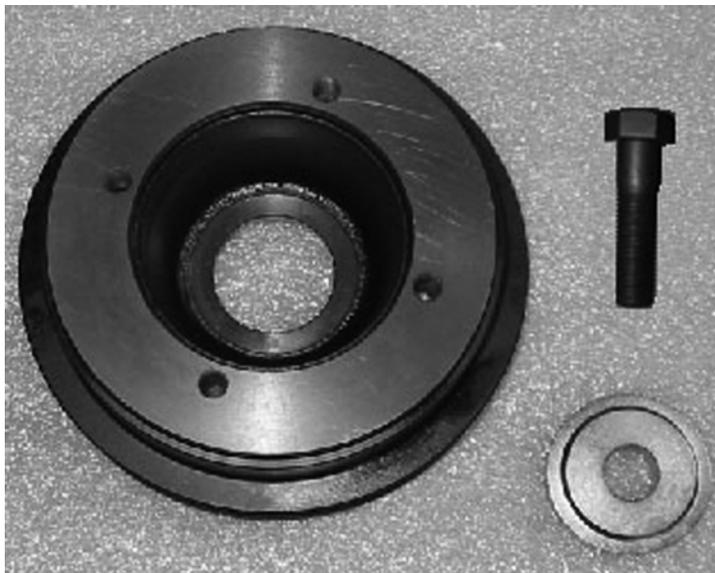
PARTS REQUIRED TO PURCHASE FROM JOHN DEERE:

Pulley from JD - R516320

Washer from JD - R517237

Bolt from JD - R516648

Torque on the pulley bolt with Loctite is 369 lb-ft.



Solution:

1. Clean nose of crankshaft using TY16285 clean and cure primer.
2. Apply a light 2-3mm bead of TY15969 retaining compound around the leading edge of the crankshaft nose.
3. Dip damper mounting capscrew in clean SAE30 engine oil (Always use a new capscrew).
4. Position damper/pulley on the crankshaft and thread capscrew up tight (do not rely on the capscrew to pull the pulley straight onto the taper).
5. Tighten capscrew to specification 500Nm (369lb-ft) (the engine will most likely have to be pinned).
6. Measure run-out on the pulley, spec is 0.003" or less.

(ASM-JD-0080)

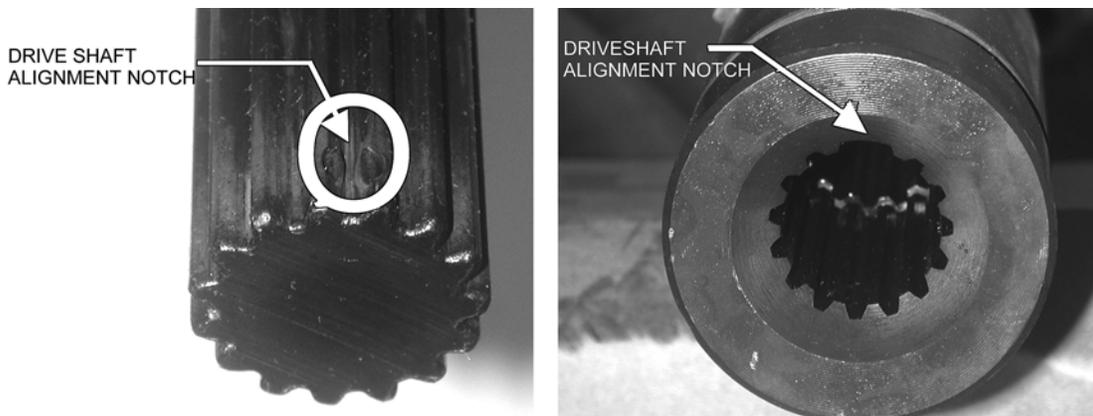


ASSEMBLY

DRIVESHAFT AND FRONT PUMP MOUNTING

Install spacer plate on tractor engine using bolts and lockwashers as shown in Parts Section. Grease sleeve section of the driveshaft and install from the side of the engine compartment. Once you have the sleeve section in place, bolt to spacer plate using bolts and lockwashers as shown in Parts Section. Install shaft end of driveshaft through opening and into driveshaft sleeve. Shaft and sleeve yokes should be aligned, if shaft does not insert easily in sleeve, turn shaft 180°, and then install. Align the notches on the shaft and yoke tube as shown in picture below. **Shaft end must be installed in correct orientation, failure to do so may result in damage to tractor and/or driveshaft.** After installation of shaft end, install pump mount. Next, install pump. After pump is secured, install driveshaft in to pump shaft. The end of driveshaft should be no more than 1/2" away from contact with pump housing. Tighten crimping bolt on driveshaft. Lube driveshaft and check all hoses, flanges, the pump, pump mount, driveshaft and mounting plate to ensure all fasteners are tightened before operation.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-JD-0007)



ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owner's 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 polycarbonate window. This should be done before mounting the mainframe.

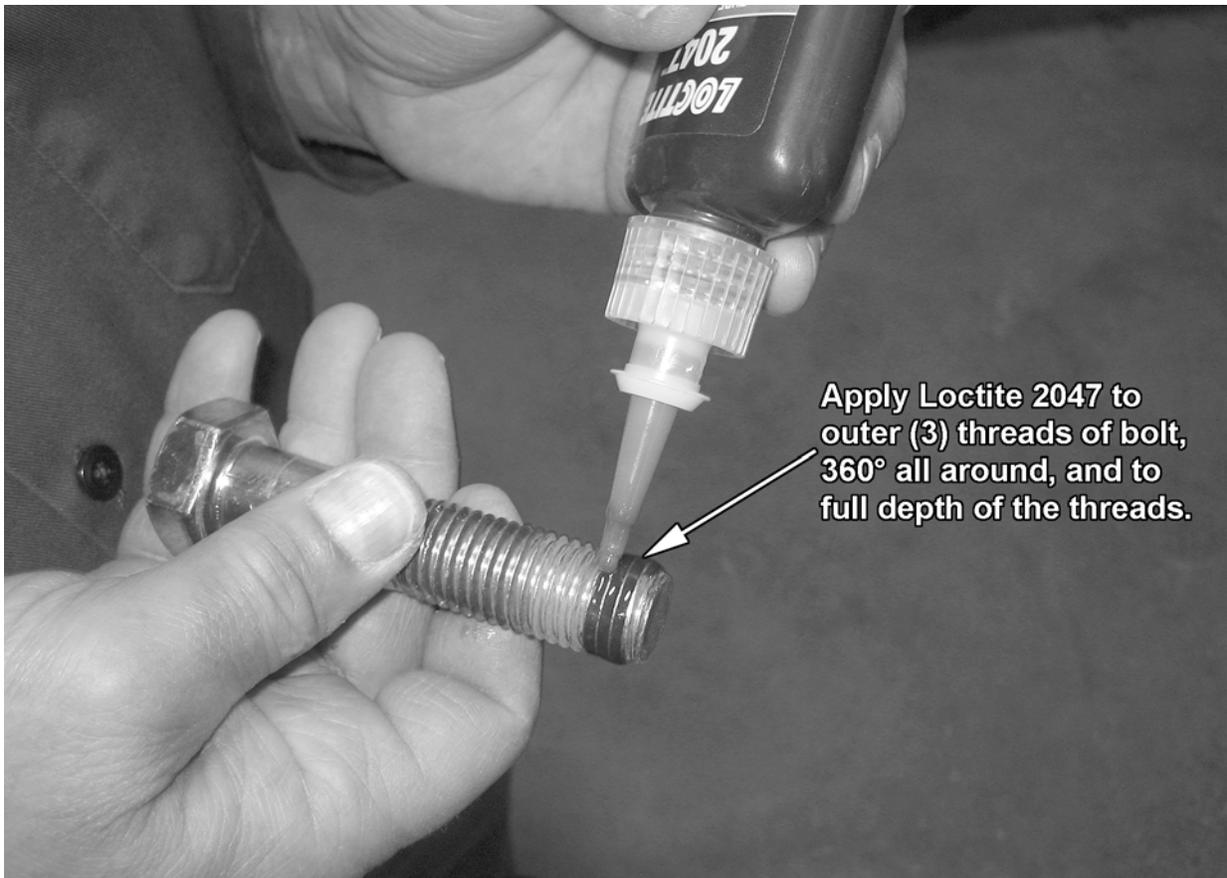
1. Disconnect gas shock at door. Remove the right side cab door/window glass from tractor cab by removing hinge pins. Also, remove rear right side window.
2. Remove the existing hardware and discard factory glass door and window.
3. Place small bead of adhesive seal in the bottom of the trim lock bubble seal.
4. Install trim lock bubble seal on polycarbonate starting at the center bottom horizontal portion.
5. Install existing hardware removed from glass door and window on the polycarbonate.
6. Install the polycarbonate assembly in the cab with existing and supplied hardware.
7. Place the retaining brackets on the upper front and lower front (if applicable) of the cab door/window with the 8mm capscrews.
8. Place the last bracket at the bottom of the door by the fender as shown in the illustration below. Hold the bracket in place and mark the door jam.
9. Drill a $21/64$ " hole in the door jam for the $5/16$ " capscrew and mount the bracket.
10. Install the right rear poly window into place where the factory window was removed (if applicable). (ASM-JD-0052)



ASSEMBLY

APPLICATION OF LOCTITE 2047 MOWER MAINFRAME MOUNTING BOLTS

All mower mainframe mounting bolts shall be secured utilizing Loctite 2047 and torqued per the Torque Chart in the maintenance section. Shake bottle for 60 seconds before use. To prevent clogging of nozzle, do not allow tip to touch metal surfaces during application. If tip of nozzle becomes clogged, cut off tip as required. If female threads are contaminated or rusty, clean threads by using a thread chaser prior to installation of bolts. Apply thread locker to threads of bolts as shown below. The allowable fixture time is (1) hour maximum. Therefore bolts must be torqued within this time limit. The cure time is 72 hours at room temperature, therefore machine is not to be used in actual application, except for function testing, until the Loctite is allowed to cure.



Apply Loctite 2047 to outer (3) threads of bolt, 360° all around, and to full depth of the threads.

(ASM-C-LOCTITE MNT BOLTS)



ASSEMBLY

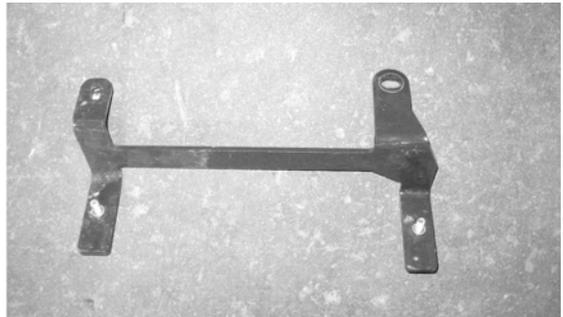
TIGER TUBE GUIDE INSTALLATION

Before the Tiger mainframe can be installed on JD6145-55M/R tractors, some steps are necessary. First, portions of the heat shield need to be temporarily removed from the tractor's exhaust, as shown in the photos below. This will allow the replacement of the John Deere part securing the preformed tubes running along the right side of the tractor. The John Deere part shown should be replaced with the provided Tiger part #06411947. This will allow adjustment of the tube clamps. This is necessary for the mainframe to be installed without damaging the tubes. Remove the John Deere part and replace it with the Tiger part using two provided bolts #06530005. After replacing the John Deere tube guide with the Tiger part, replace the exhaust heat shield. *(ASM-JD tube bracket)*

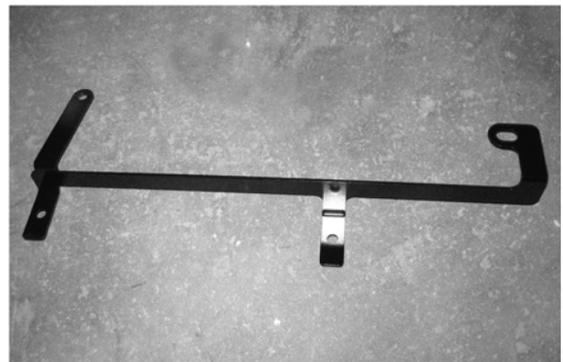


**PARTS TEMPORARILY
REMOVED FROM
TRACTOR EXHAUST**

When removing heat shield parts from the tractor exhaust, save all hardware to re-install the heat shield after the John Deere tube bracket has been replaced



John Deere bracket to be replaced



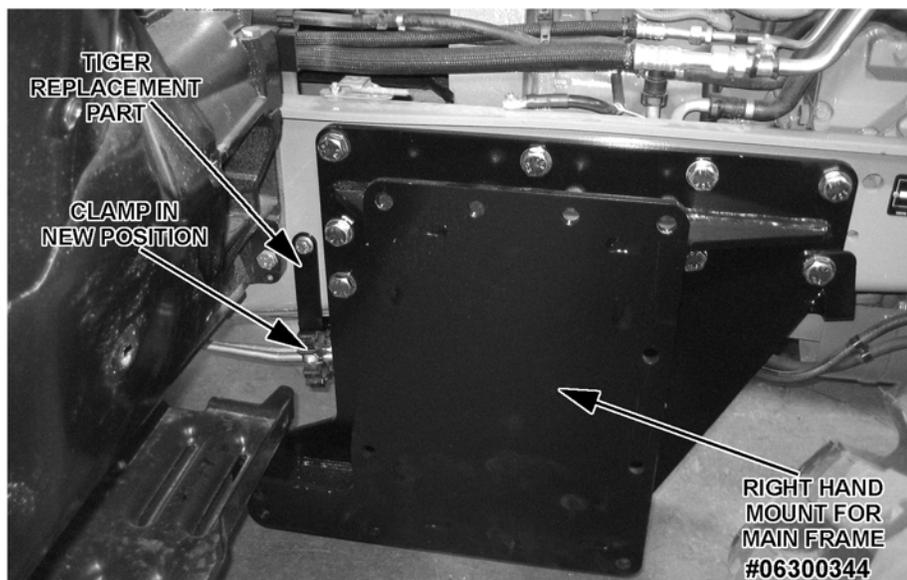
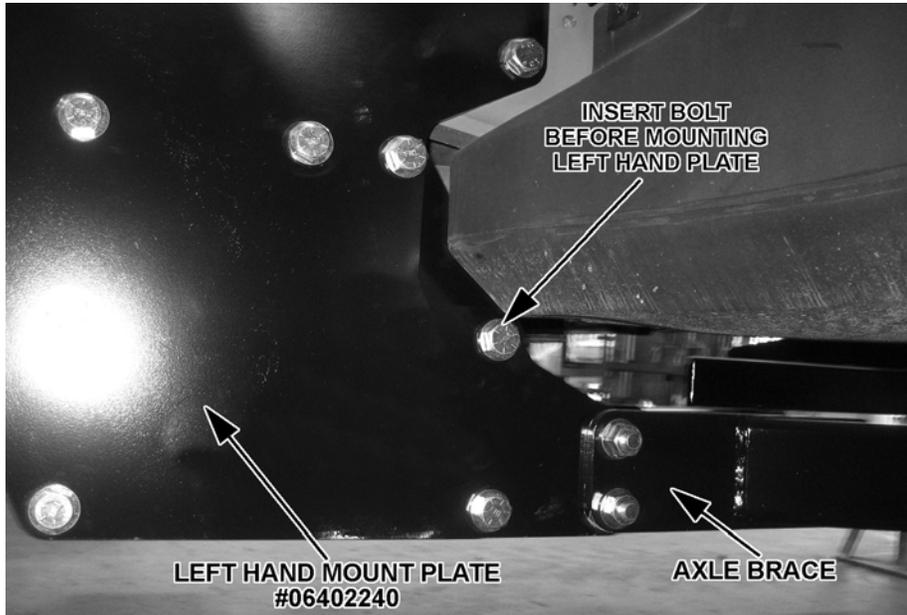
Tiger replacement bracket



ASSEMBLY

MOUNTING PLATE INSTALLATION

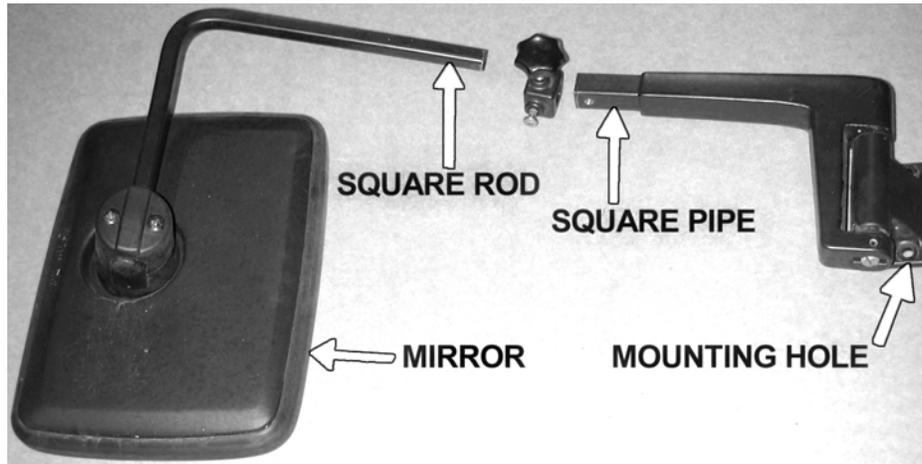
Before installing the right hand mount plate, locate the left hand mount plate and install bolt #06530237, washers #33880 and nut #06531008 in the hole shown in the photo below BEFORE mounting the plate on the tractor. Then install the right hand plate with crossbeam. The holes between the left hand plate and the crossbeam should match, and the pre-installed bolt should go through the crossbeam when the parts are brought together. With both plates in place install the remaining bolts, washers and nuts. (ASM-JD mount plate)



ASSEMBLY

SIDE MIRROR MOUNTING

Disassemble the right side mirror bracket. Cut the square rod and pipe (shown in picture below) 6-1/4". Assemble them together. Mount the right mirror bracket and hardware on the upper right corner of the tractor cab as shown in picture below. Refer the Parts Section-- safety screen, cab for hardware details. (ASM-JD7220-0001)



MAINFRAME INSTALLATION

With an overhead hoist and / or jack-stands, raise one side of the frame up to the correctly matching mounting holes. Install capscrews and other hardware to secure the sides of the mainframe to the tractor casting, as shown on the tractor mount kit page in the Parts Section. DO NOT tighten at this time. Remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. (ASM-C-0003)



ASSEMBLY

SWITCHBOX WIRING

Power for the switchbox is accessed through the port located on the right rear of the cab. A John Deere plug is used, part number RE67651. DO NOT connect the plug to the cab port until the wiring is completed. The wires in the plug are colored RED, BLACK and ORANGE. The RED wire will always be hot, so it needs to be capped. Attach connector 34538 to end of RED wire and tape wire back on itself. The BLACK and ORANGE wires are hot when tractor key is turned to "on." Connect the BLACK wire of the plug to the BLACK wire from the switchbox. Then connect the ORANGE wire of the plug to the RED wire from the switchbox. **IMPORTANT: In some cases the red and orange wires may be switched.** ALWAYS test the wires to be certain which wire is which.

The two GREEN wires must be connected to the neutral safety wire by cutting the neutral safety wire and connecting one GREEN wire to one end and the second GREEN wire to the other. Refer to the switchbox schematic and wiring diagram for additional information.

The Neutral Safety wire is a brown wire located under steering column. Cut a slot in the right side of column to access, WATCH OUT for existing wires.

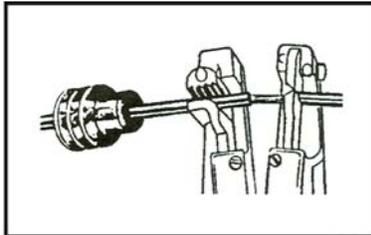
After connecting the power to the switchbox, route the white wire along the cables or wires to the solenoid valve. (ASM-JD-0245)

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.

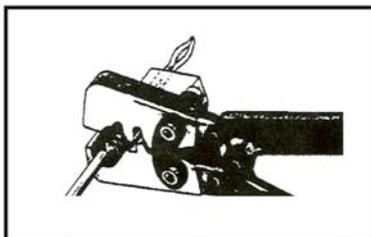
(ASM-C-0009)



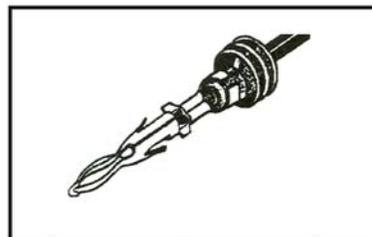
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



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



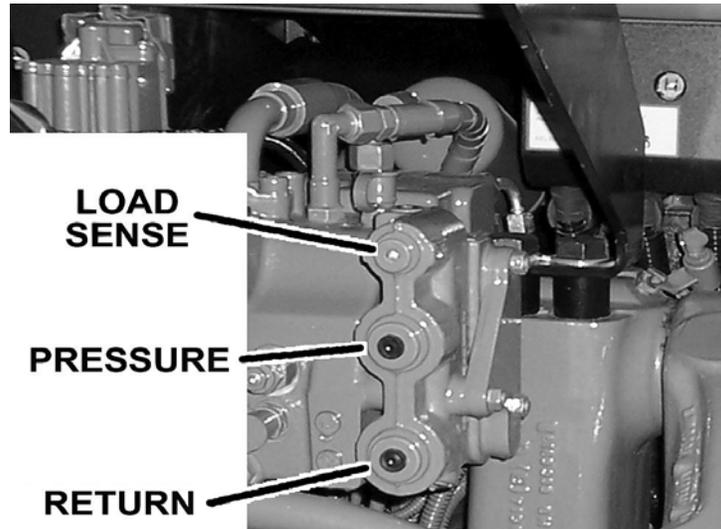
4. Crimp and visually inspect for a good crimp before installing in connector body.



ASSEMBLY

HYDRAULIC PORTS

These ports are located at the rear of the tractor, under the lift valve, where the valve mounting bracket attaches to the tractor. The load sense port is on top, then the pressure and finally the return port, as shown in the image below. Refer to the Parts Section for additional information. (ASM-JD60-7030-0004)



PRESSURE LINE INSTALLATION

The hydraulic pressure line will be plumbed into the rear of the tractor remote valve. Locate the pressure port on the rear remotes and remove the plug (refer to the Hydraulic Ports illustration and the Parts Section pages for position of the pressure port). After the plug is removed install 27mm adapter. Next, connect a 1/2" hose from the tractor remote valve to the Tiger valve. (ASM-27mmPRESSURE-0001)

RETURN LINE INSTALLATION

The return line will be plumbed next to the pressure line on the tractor remote valve. Locate the return port and remove the plug (refer to the Hydraulic Ports illustration and the Parts Section for the position of the return port). After the plug is removed install 27mm adapter or elbow. Next, connect a 1/2" hose from the tractor remote valve to the Tiger valve. (ASM-27mmRETURN-0001)

LOAD SENSE LINE INSTALLATION

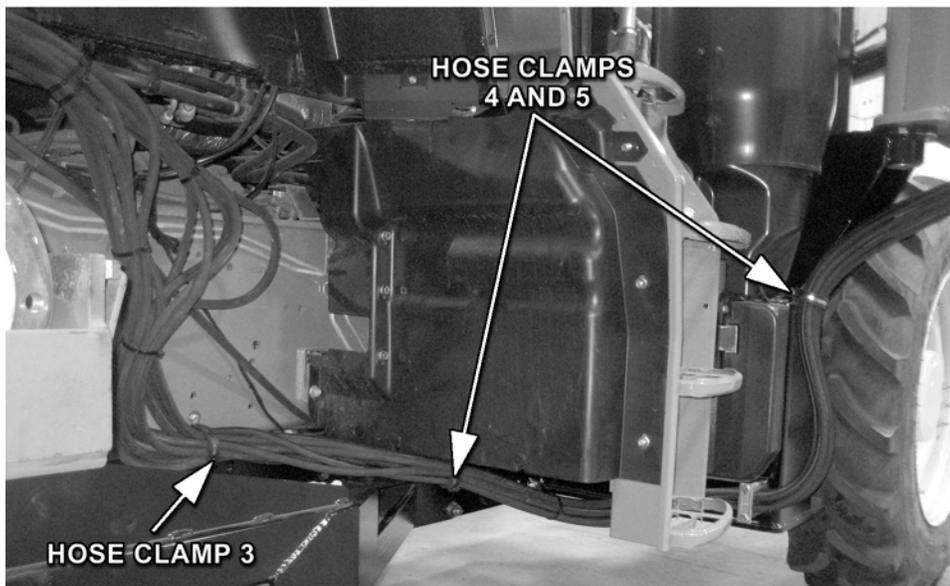
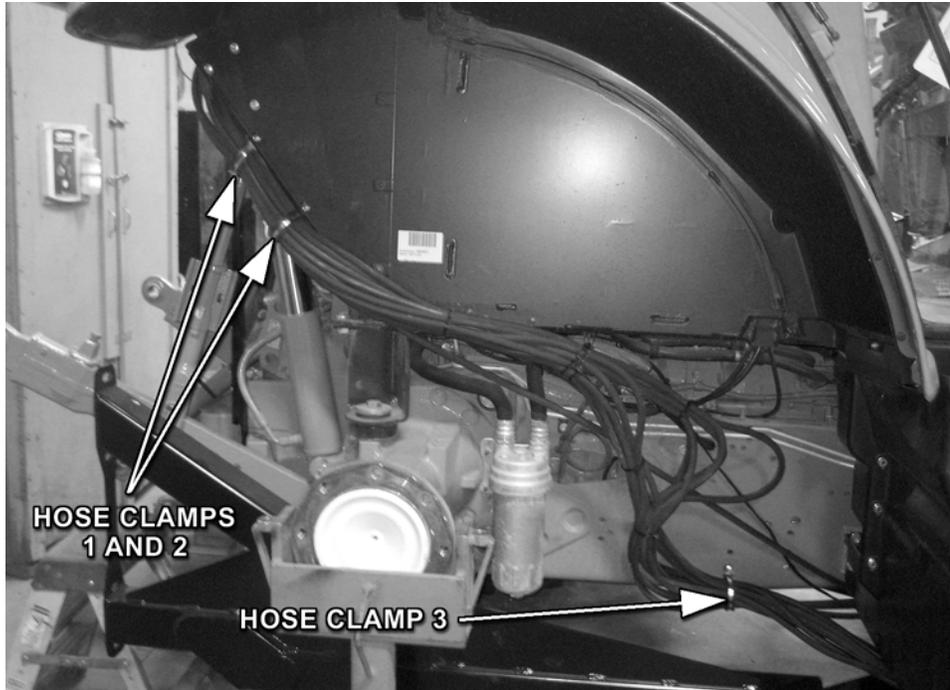
The load sense line will be plumbed into the bottom of the tractor remote valve (refer to the Hydraulic Ports illustration and the Parts Section pages for the position of the load sense port). Locate the plug on the tractor rear remotes for the load sense, and remove the plug. Install a 14mm adapter or elbow and run a 1/4" hose from the remotes to the Tiger valve. Refer to the Parts Section pages for an exploded diagram of the tractor remote valve hookup. (ASM-14mmLOAD SENSE-0001)



ASSEMBLY

HOSE ROUTING

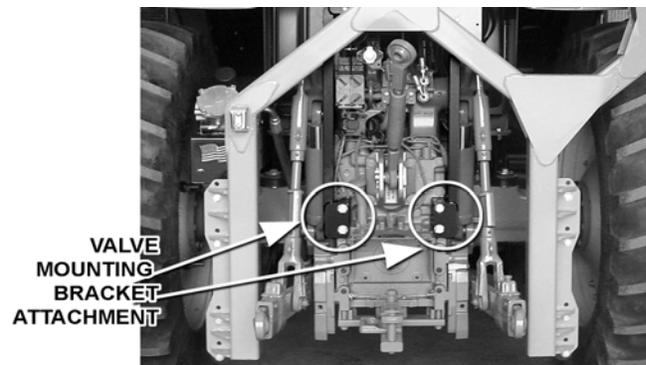
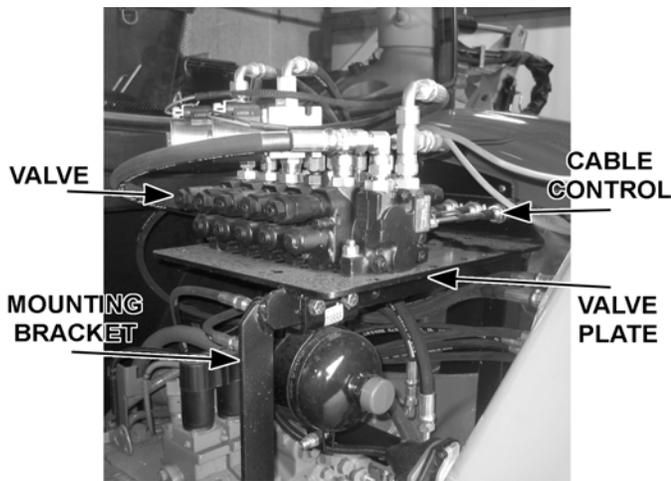
Hoses travel along the right hand wheel well from the lift valve to the mainframe and boom. Five hose clamps #06520536 are used to route the hoses as shown below. Clamps 1 and 2 (near the lift valve) and 4 and 5 (near the mainframe) use 1/4" x 1" bolts #21530, flatwashers #22014 and nylock nuts #21527. Hose clamp 3 uses 3/8" x 1-1/2" bolt #21632, flatwashers #22016 and nylock nut #21627. Use zip ties between the clamps as needed. *(ASM-JD hose routing)*



ASSEMBLY

VALVE MOUNTING

The mounting bracket for JD 6xxxR series tractors features two long legs which need to be attached as shown in the photo below. Secure the bracket to the tractor with hardware shown in the Parts Section of the manual. Align the holes for the cables on the Husco control valves and center the Danfoss valve on the valve plate. Then align the holes on the valve with the plate holes and secure the lift valve on top of the mounting plate. Route the hydraulic lines from the lift valve to the hydraulic cylinders as noted on the lift valve page of the Parts Section. Install the control cables to the valve and the mounting plate on the Husco valves. On the Danfoss valves, attach the electrical control cables. (ASM-JD7X30-0001 JD6140R)

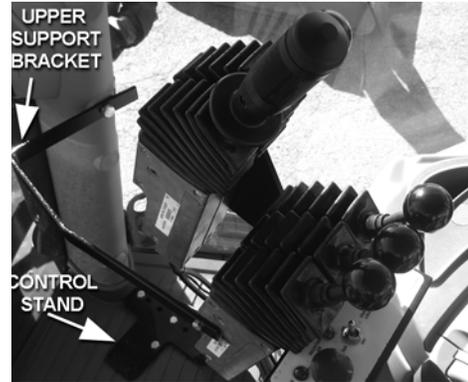


ASSEMBLY

CABLE CONTROL LEVER STAND

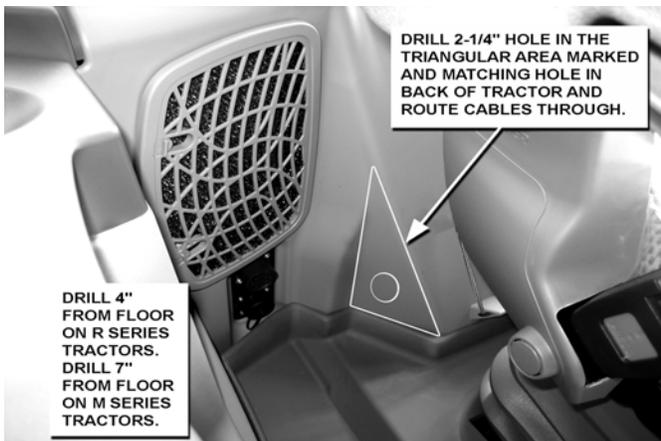
On the corner cab post, mark a point at 1-3/8" from the windshield and 22-1/2" from the floor; then cut a 3/4" diameter hole through the outer plastic shell. This will expose a threaded steel boss to attach the control box support bracket.

The rear corner of the cable control stand is placed approximately 6-1/4" from the edge of the mat. The front edge of the stand is up against the corner cab post and the door sill lip of the mat. Before you mark or drill any holes, check for support plates or wires under the mat and the cab floor. NOTE: Cutting into plates or wires makes more work for everyone and could be dangerous. When you know where the wires/plates lie, mark one of the mounting holes. Drill a 3/8" hole through the mat and through the floor of the cab. Next, lift the mat up and mark the other two holes on the cab floor. Drill the holes through the floor. Mark the mat and drill the other two 3/8" holes.



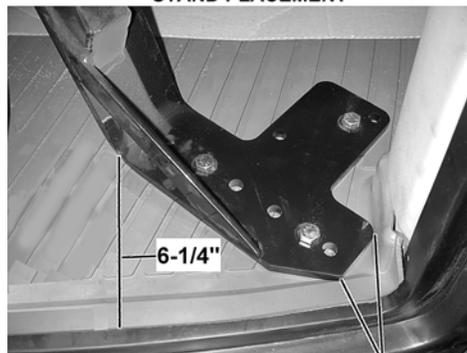
Use a 1" hole saw and cut a 1" hole through the mat over each 3/8" hole. Secure the stand to the floor with the spacers, capscrews and nylock nuts provided.

Secure cables and wires from the control stand with zip ties and route past the right side of the driver's seat. Drill a 2 1/4" diameter hole in the triangular area behind the driver's seat. Drill a hole to the outside rear of the tractor.



Wrap the cables with the 6" split hose at the point they pass through the hole, and secure the zip-ties. Apply RTV sealer in and around individual cables and split hose, inside and outside of the cab for a water tight seal. Install upper support bracket from cab post to the control lever stand. (ASM-JD CBL MNT-0002c)

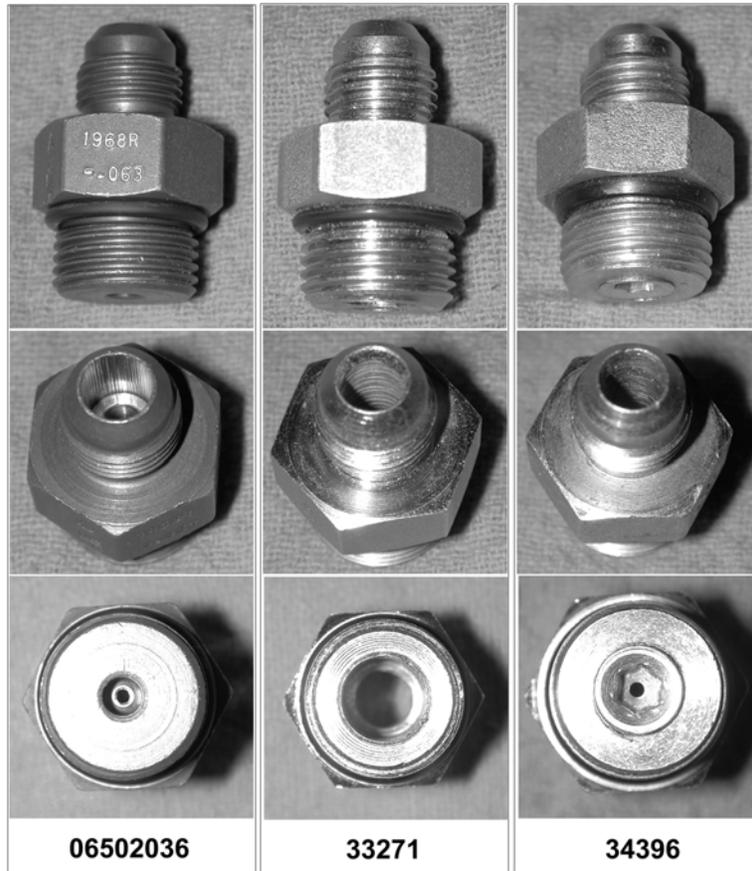
STAND PLACEMENT



ASSEMBLY

NOTE ON HUSCO CONTROL VALVES

Manual, cable controlled (Husco control valve) boom mowers require check valves with integral restricting orifice (#06502036) installed in the control valve work ports that are connected to the gland ends of the main and secondary boom cylinders. This check valve allows oil to free flow into the gland end of the main and secondary boom cylinders, but restricts flow out of the cylinder, thereby providing proper boom control. This check valve, #06502036 (Vendor #1968R-.063) is similar in appearance to hose adapter #33271 and Adapter #34396, with .06 orifice. These components can be identified as follows, and are to be installed per Parts Section for the lift valve. (ASM-HUSCO-0001)

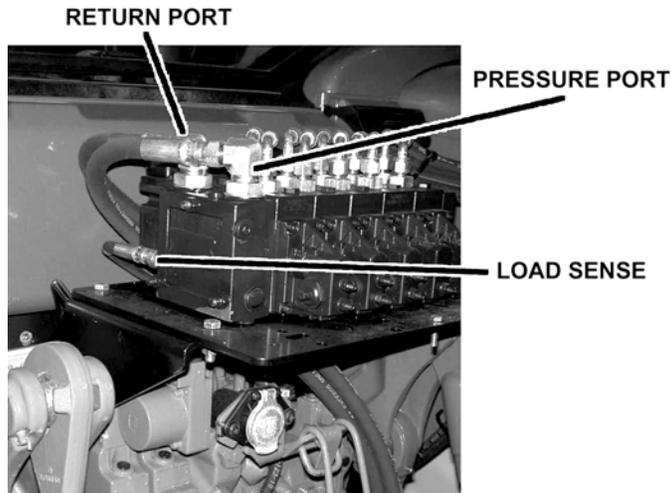


ASSEMBLY

ELECTRONIC LIFT VALVE PORTS

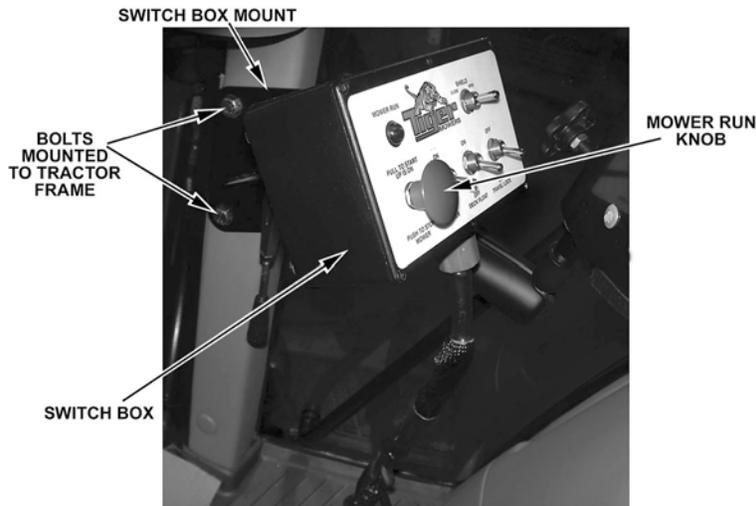
(ASM-C-0089)

DANFOSS VALVE



JOYSTICK SWITCHBOX MOUNTING

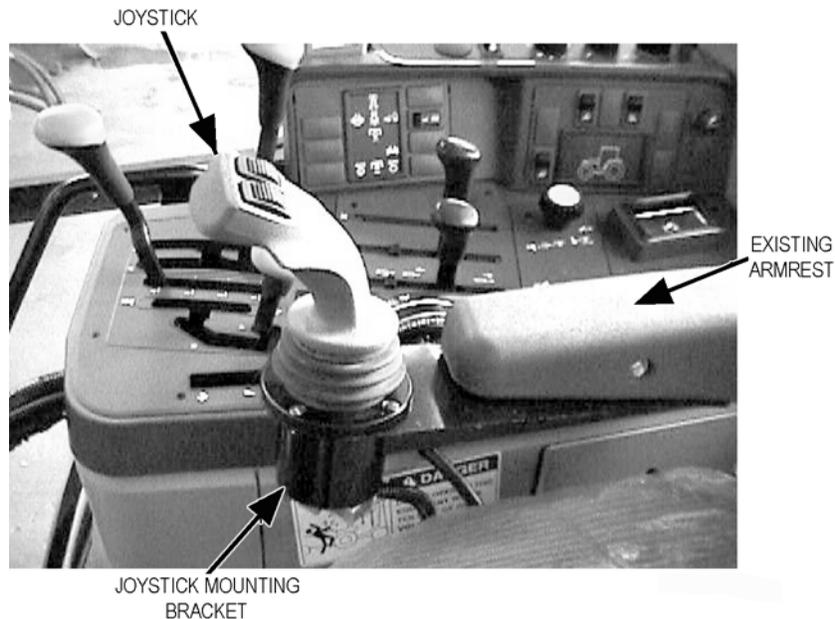
Locate the two holes in the right front corner of the cab frame. These will be the mounting holes for the two mounting bolts of the switchbox bracket. See picture below. Mount the bracket using the hardware supplied, as noted in the Parts Section. (ASM-JD-0081)



ASSEMBLY

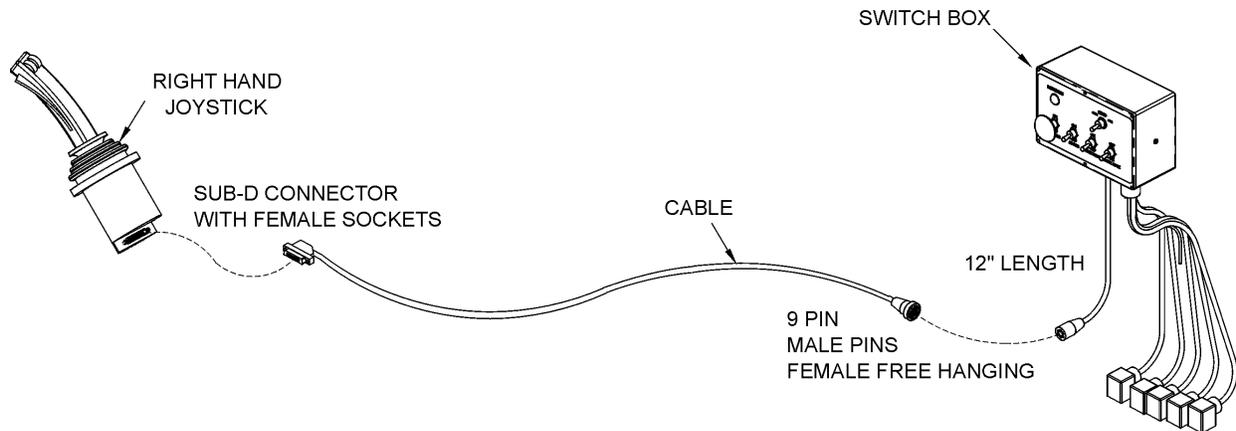
JOYSTICK CONTROL MOUNTING

Mounting the joystick control requires that the right armrest be modified and an additional bracket attached to accommodate the joystick. The armrest must be removed by sliding off the plastic cover and removing the capscrew from the lower right side of the seat. This will leave the armrest loose so it can be removed. Once the armrest is removed, place the joystick holder under the armrest, so the indentation on the outside of the armrest is lined up with the hole in the armrest bracket which the capscrew will need to pass through. Once they are lined up, mark the armrest where the hole passes through the armrest bracket. A 1/2" hole must be drilled through the armrest so that the bracket can be secured. After the initial 1/2" hole is drilled, on the inside of the armrest the hole must be cut to a larger diameter up to the metal plate in the armrest, so that a spacer and hex nut can be fastened to the capscrew which will secure the bracket. Install the armrest bracket on the armrest with the hardware shown in the Parts Section. Once the bracket is installed, re-attach the armrest to the seat using the existing hardware previously removed. Then install the joystick in the bracket with the machine screws shown in the Parts Section. Route the lift valve wires from the switchbox through the cab and out the back window. Cover with conduit and secure with ties or clamps as necessary. (ASM-JD-0082)



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 screwdriver 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: 8-10 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.)

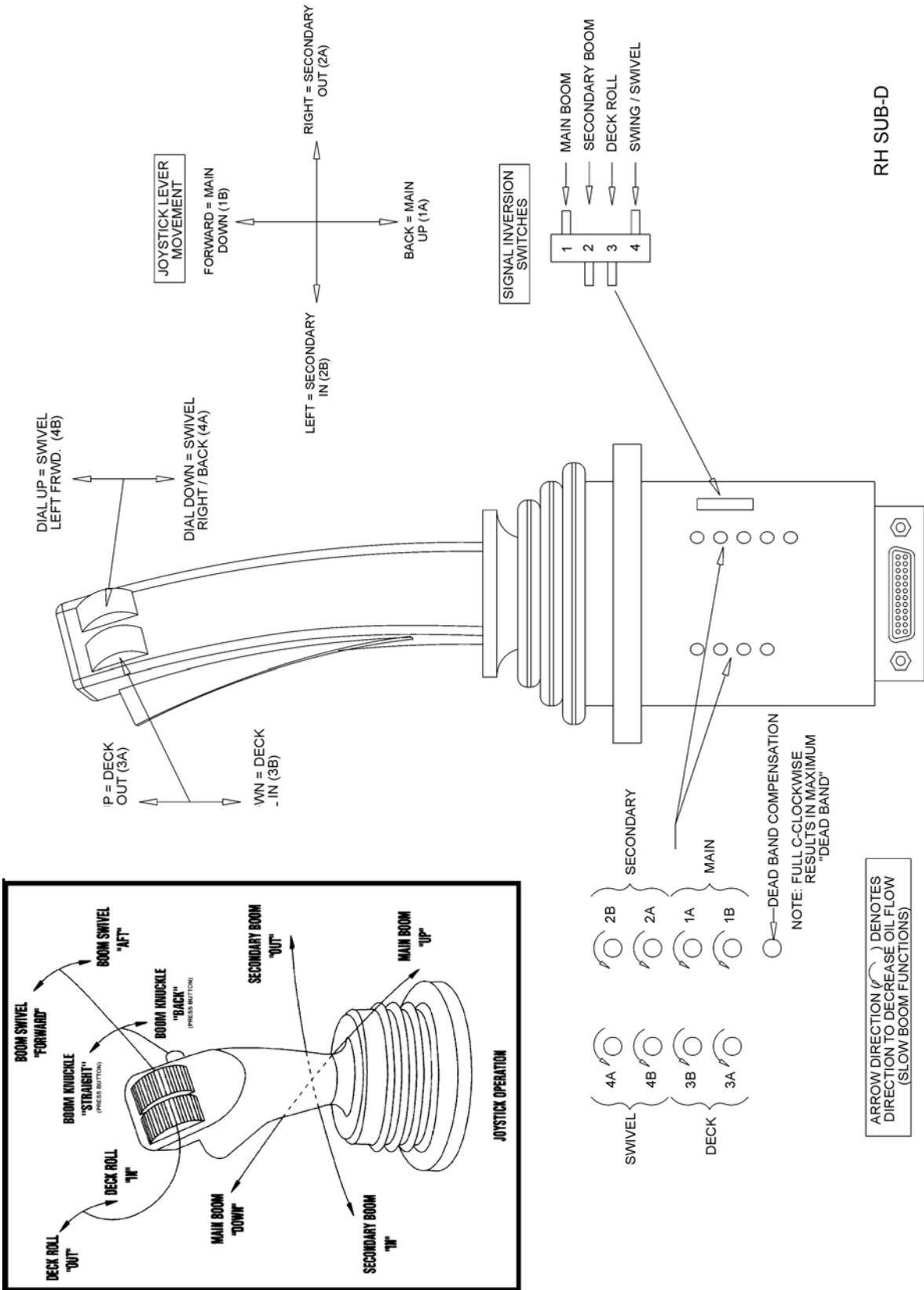
“B” Port, Boom Forward: 11-13 Seconds

(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)



ASSEMBLY

SABER SWIVEL BRACKET MOUNTING

Install the boom swivel bracket onto the boom mounting bracket with the swivel pin. Secure the pin in place using the capscrews, etc. through the hole in the boss and pin.

NOTE: The head of the capscrew must be toward the front of the tractor.

Install all new swivels and fittings on the swing cylinder with swivel openings facing each other. Fittings will vary in type and direction depending on your application. Refer to the Parts Section for more detail.

Install bushings (with split facing the direction of the grease zerk hole) in the mainframe anchor for the swing cylinder. This may already be done for you.

Install the swing cylinder between the mainframe cylinder anchor and the boom swivel bracket with the clevis pins. Insert roll pins through the top hole in the clevis pins, and secure the bottom of the pins with the hairpin clips.

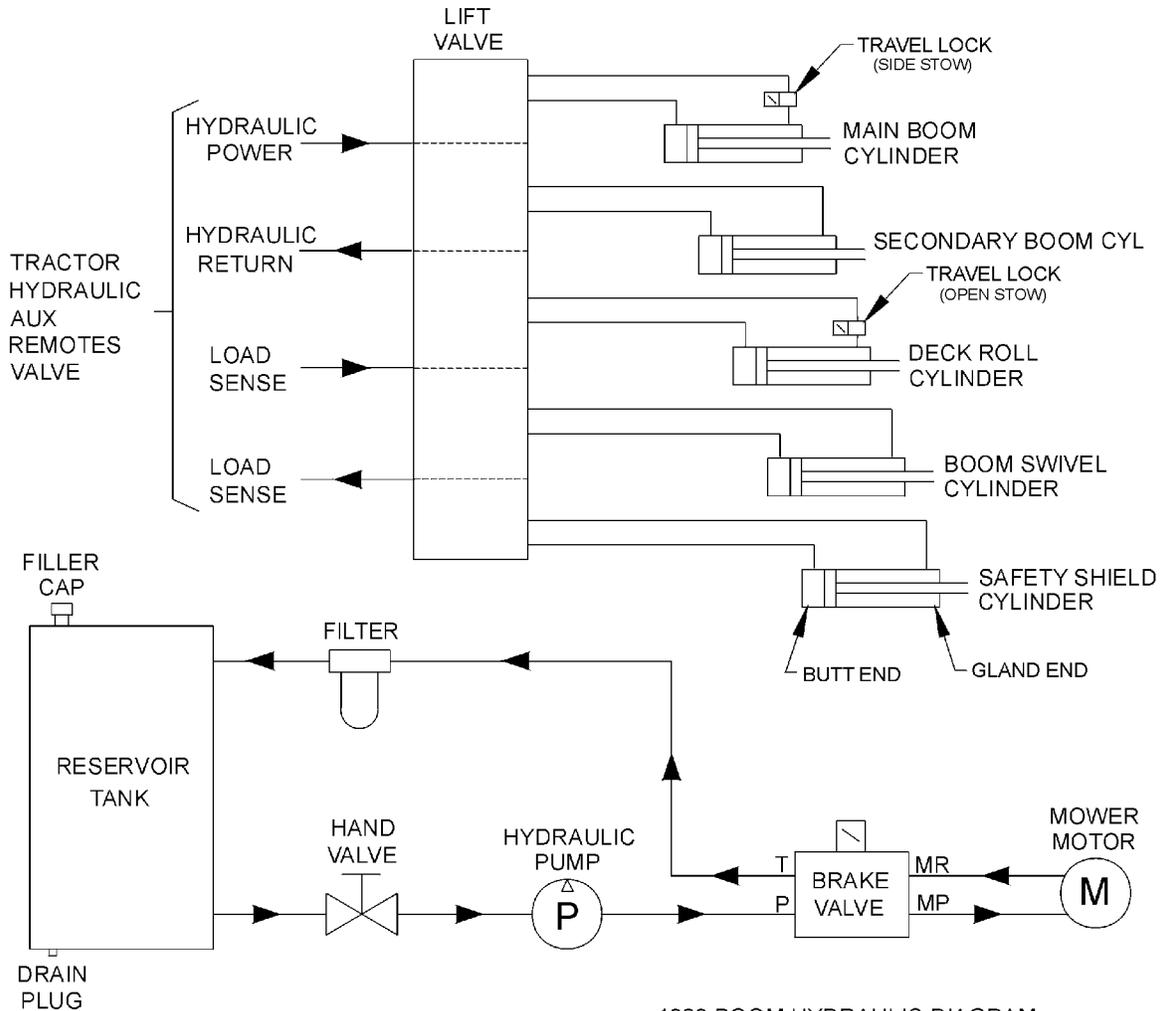
Attach the hoses from the control valve to the swing cylinder. *(ASM-C-0027 T4 swivel saber)*



ASSEMBLY

(ASM-C-0023)

BOOM HYDRAULIC DIAGRAM



WHEEL WELL HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in the Parts Section illustration. Insert tank sight glass onto the tractor side of the tank.

Place the tank in the mounting bracket on the axle brace as shown in the Parts Section. Secure the tank with the hardware provided.

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. The tank breather cap is ready for use as the tank is filled. Some of these items may already be installed. (ASM-C-0103)

WHEEL SPACERS

When mounting a boom mower, a spacer kit is needed for both rear wheels (part # 06200637). After removing the wheels attach the spacer to the wheel portion of the axle with the hardware provided. When you are ready to re-attach the wheel, the wheel goes on first then the reinforcement ring and finally the hardware provided. (ASM-JD-0099)



ASSEMBLY

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 the 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)*

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 swivel and main boom with the hose cover provided. 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.

On non-cab units, the pressure and return hoses from the control valve will also need to be routed inside the protective hose wrap. Cover the valve and valve fittings with the hose cover and secure with the string provided. *(ASM-C-0058)*

ACCUMULATOR INSTALLATION

Install the accumulator bracket on the right mainframe mast or lift valve mount, if applicable, with the capscrews, lockwashers and spacers, if applicable, as shown in the Parts Section. 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. **Use teflon tape on all pipe fittings (except O-rings).** *(ASM-C-0012)*



ASSEMBLY

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)

WHEEL WEIGHT MOUNTING

For all tractors using a boom mower, a wheel weight will be required for the rear left side wheel. 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.

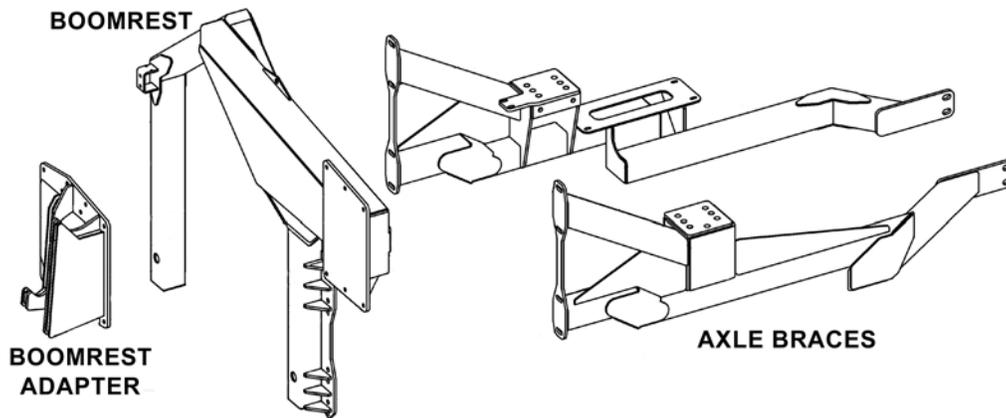
The left rear tire may also be filled with a mixture of water and calcium chloride at about five pounds per gallon. Tire air pressure should be maintained according to the Maintenance Section. (ASM-C-0055)



ASSEMBLY

RS AXLE BRACE MOUNTING

The rear stow axle braces are to be mounted under the rear axle of the tractor. The other end of the axle brace mounts on the outside of the lower rear corners of the mainframe. After attaching the boomrest, it should fit tightly and level under the tractor. Attach the axle brace(s) to the mainframe with hardware shown in the Parts Section and tighten. Attach the axle braces to the rear axle using the mounting hardware shown in the Parts Section, but DO NOT tighten.



SABER BOOMREST MOUNTING

Carefully raise the Saber boomrest and align the holes with those of the axle brace. Now install all attaching hardware, as shown in the Parts Section, loosely, to allow for the alignment with the left and right axle brace. Tighten / torque all hardware on the brace and the boomrest. Finally, add the adapter to the boomrest. (ASM-JDBOOM-0001_6145-55 Saber)

DECK ATTACHMENT

The pivot assembly is used to attach the head to the secondary boom. Install the deck pivot cylinder using the pins and hardware, which is illustrated in the Common 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. Connect all remaining hoses from the control valve to the cylinders and / or preformed tubes on the boom arm. Refer to Common Section for diagrams. (ASM-C-0018)



ASSEMBLY

MAIN BOOM INSTALLATION

Using a hoist, install the boom swivel into the mainframe as shown in the Parts Section. Line up holes in swivel and mainframe 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)



ASSEMBLY

FINAL PREPARATION FOR OPERATION

Place operator's safety and operation decals on the steering column and side console 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 Sections of this book. The decals are to be maintained in good condition as a reminder to the operator, and should be replaced if damaged.

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 and 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 operator's 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 operator's 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 retorqued 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

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OPERATION

1. OPERATOR REQUIREMENTS

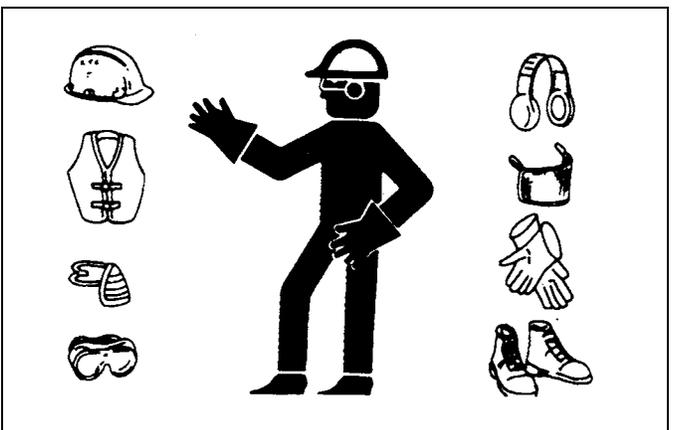
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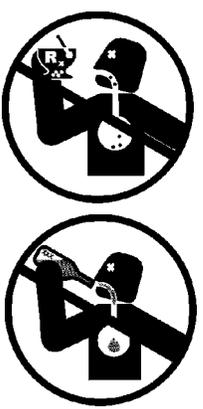
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OPERATION

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OPERATION

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4. STARTING THE TRACTOR

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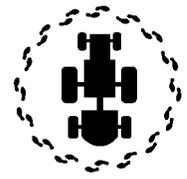
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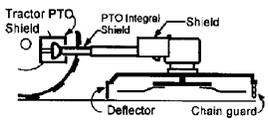
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6.1 Tractor Pre-Operation Inspection/Service

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OPERATION

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6.2 Boom Unit Pre-Operation Inspection and Service

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OPERATION

Tractor PRE-OPERATION Inspection



Mower ID# _____ Make _____

Date: _____ Shift _____



Before conducting the inspection, make sure the tractor engine is off, all rotation 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

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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: _____

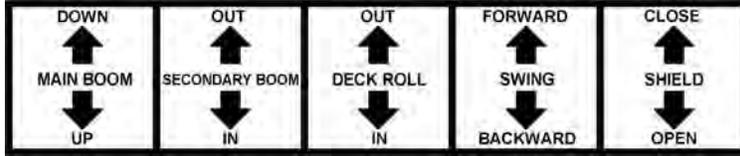
DO NOT OPERATE an UNSAFE TRACTOR or MOWER

OPERATION

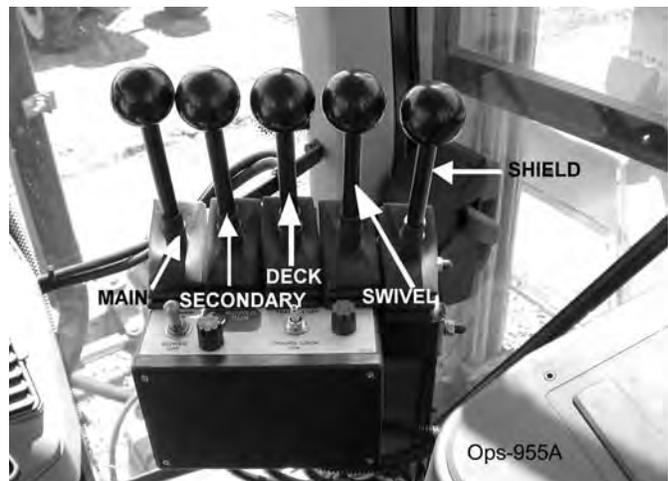
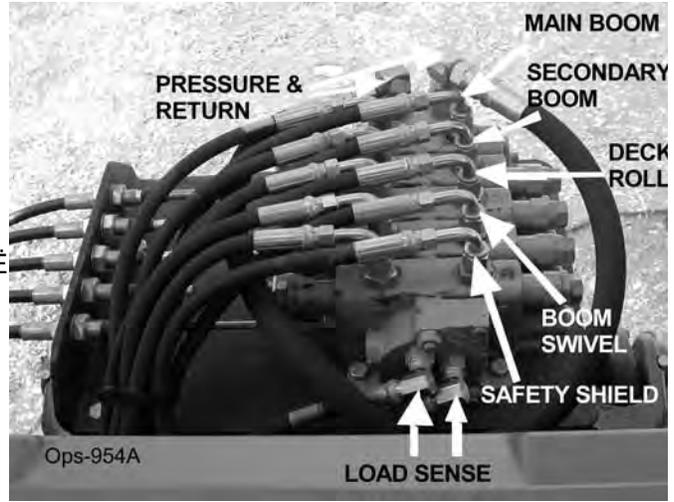
OPERATION

Cable Controlled Mowers

OPERATION



OPERATION



OPERATION

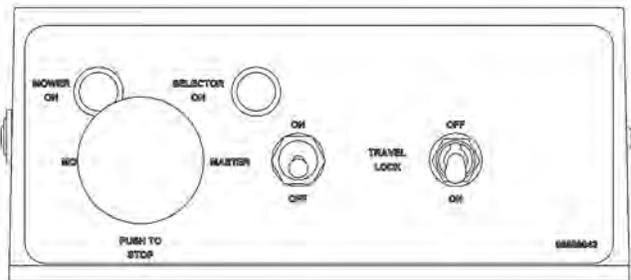
OPERATION

OPERATION

OPERATION

6.4 Switchbox

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OPERATION

DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

<p style="text-align: center;">SAFETY SHIELD</p> <p style="text-align: center;">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.
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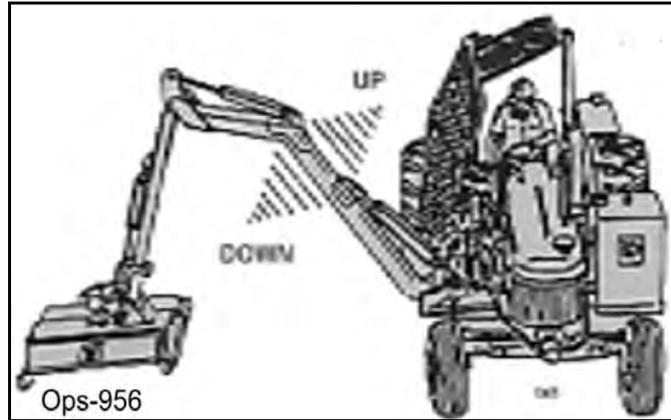
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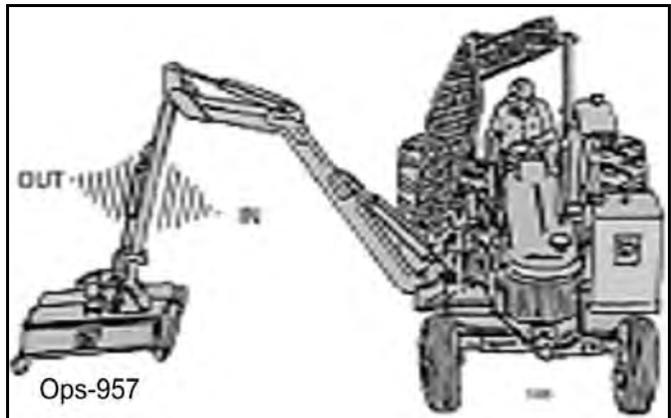
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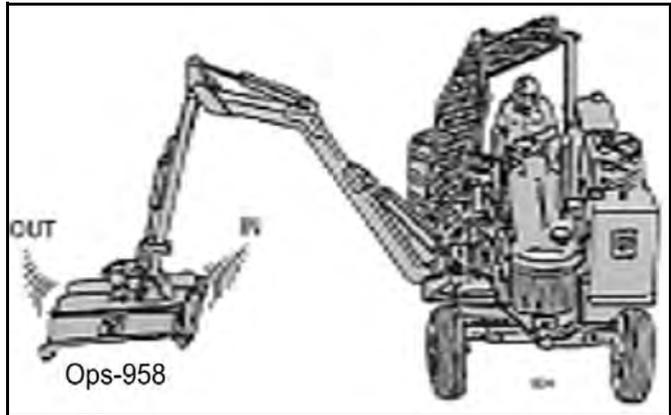
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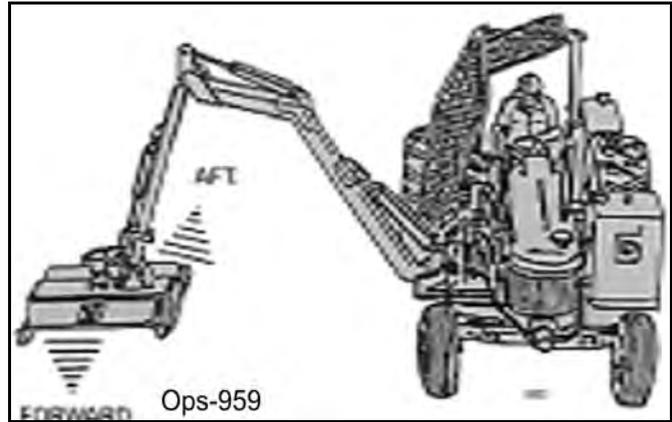
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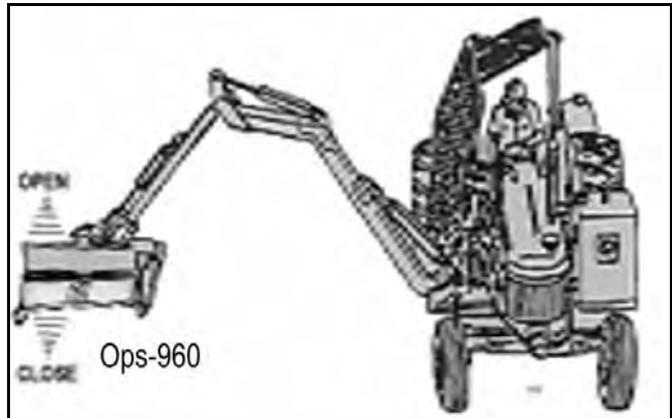
OPERATION

OPERATION

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OPERATION

OPERATION

7. Joystick Controlled Mowers

WARNING

DO NOT operate the mower until you have read and understood the operator's manual. Failure to do so may result in injury or death.

Before operating the mower, ensure that the boom is fully extended and the deck is lowered. Do not operate the mower with the boom retracted or the deck raised.

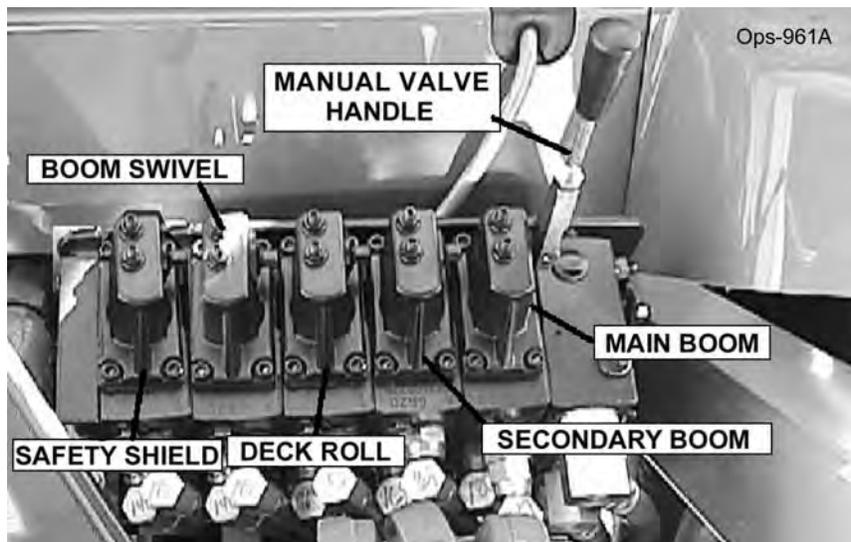
CAUTION

Do not touch the boom or deck while the mower is in operation. The boom and deck can move unexpectedly and cause injury.

CAUTION

DO NOT touch the boom or deck while the mower is in operation.

Always use proper mowing techniques and maintain a safe distance from the boom and deck. Do not attempt to touch or adjust the boom or deck while the mower is running.



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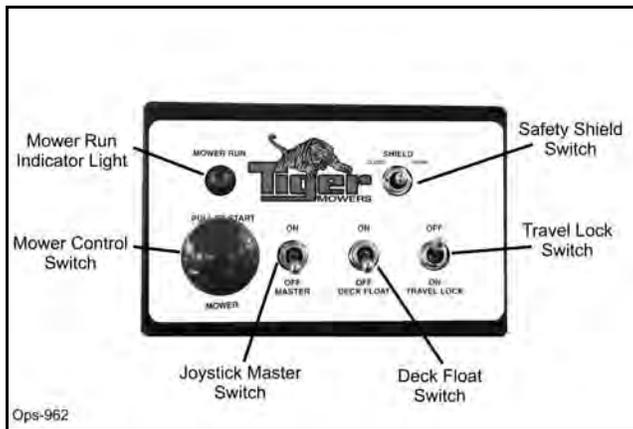
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OPERATION

OPERATION

7.1 Switch Box and Joystick Control

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! DANGER

SAFETY SHIELD OPERATION

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

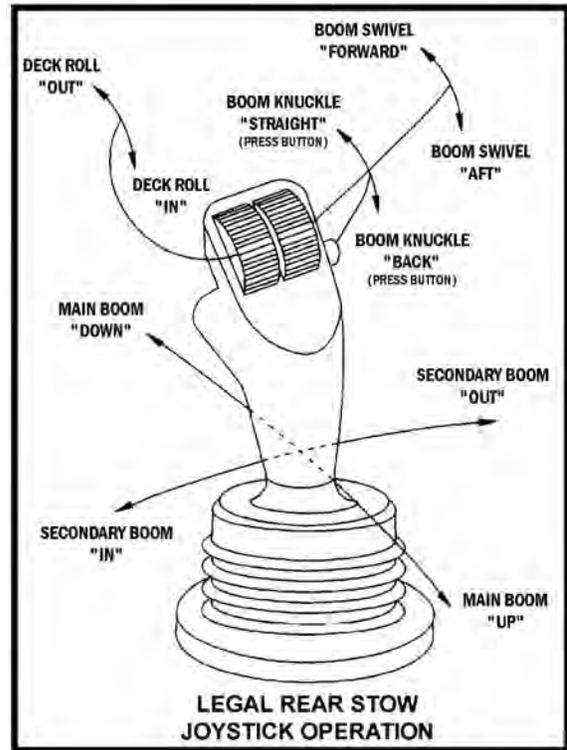
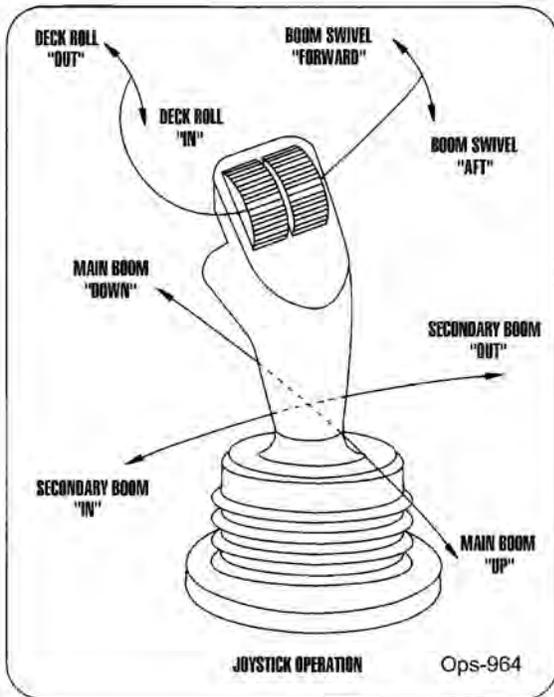
1. Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact with the Blades if persons are in the area.
2. Before cutting brush, trimming limbs, or other such operations, raise Safety Shield fully to allow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

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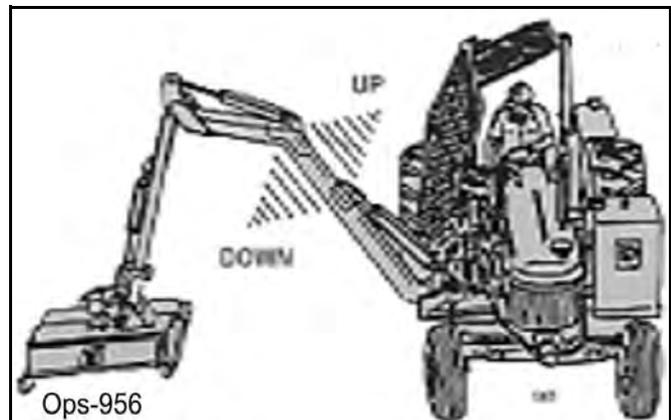
OPERATION

OPERATION

Joystick Control



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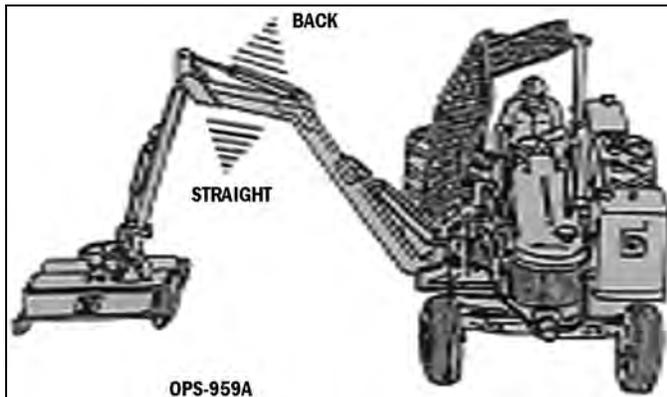
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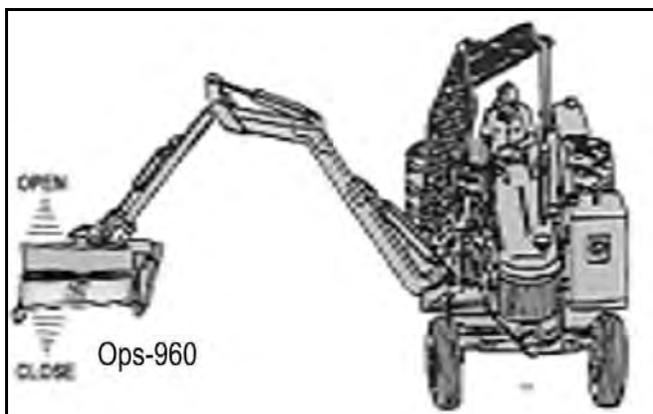
OPERATION

OPERATION

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8. DRIVING THE TRACTOR AND IMPLEMENT

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OPERATION

9.8 Shutting Down the Attached Head- For Standard Equipment

1. Turn the engine off by pulling the On-Off Switch.

2. Lower the PTO and the attached implement.

3. Turn the tractor off by pulling the On-Off Switch.

4. Park the tractor on a level surface.

5. Engage the parking brake.

6. Turn the key off.



7. Turn the tractor off by pulling the On-Off Switch.

8. Park the tractor on a level surface.

9. Engage the parking brake.

10. Turn the key off.



OPERATION



1. Turn the engine off by pulling the On-Off Switch.

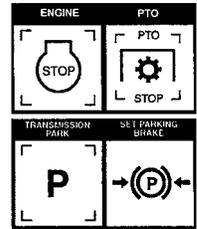
2. Lower the PTO and the attached implement.

3. Turn the tractor off by pulling the On-Off Switch.

4. Park the tractor on a level surface.

5. Engage the parking brake.

6. Turn the key off.



OPERATION

11.3 Hauling the Tractor and Implement

1. Before towing, ensure the tractor is in neutral and the parking brake is set.

2. Attach the tow bar to the tractor's hitch.

3. Secure the tractor with the provided chains or straps.

4. Drive slowly and avoid sudden stops or turns.

5. Refer to the operator's manual for detailed instructions.

OPS-U-0024



OPERATION

⚠ DANGER

1. Do not attempt to tow the tractor if the hitch or tow bar is damaged.

2. The tractor must be in neutral and the parking brake must be set.

3. Use the correct hitching procedure as shown in the diagram.

4. The towing vehicle must have a rated capacity greater than the tractor's weight.

5. Always use proper tie-down techniques to secure the tractor.

6. Do not exceed the recommended towing speed.

7. Refer to the operator's manual for more information.

OPS-U-0024



1. Before towing, ensure the tractor is in neutral and the parking brake is set.

2. Attach the tow bar to the tractor's hitch.

3. Secure the tractor with the provided chains or straps.

4. Drive slowly and avoid sudden stops or turns.

5. Refer to the operator's manual for detailed instructions.

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OPS-U-0024

OPS-U-0025

OPERATION

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MAINTENANCE SECTION

Maintenance Section 4-1

MAINTENANCE

General Instructions

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

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

Maintenance Precautions

- Be sure end of grease gun and zerks are clean before using. Debris injected into bearings, etc. with grease will cause immediate damage.
- DO NOT use a power grease gun to lubricate bearings. These require very small and exact amounts of lubrication. Refer to the detailed maintenance section for specific lubrication instructions. DO NOT over-grease bearings.
- Lexan windows should be washed with mild soap or detergent and 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 whenever a wheel is removed and reinstalled.**

MAINTENANCE



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)



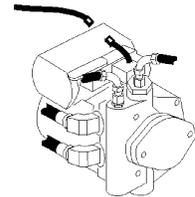
Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)



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)



MAINTENANCE

Regular Maintenance

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

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
Crankshaft Adapter	Check rubber grommets	Replace grommets if damaged or missing
Pivot Points	Lubricate	Inject grease until it appears at end

MAINTENANCE

MAINTENANCE

ITEM	SERVICE	COMMENTS
Hydraulic Fittings	Check for leaks	Tighten when needed. Do Not use hands to check for leaks, see maintenance precautions
Knives	Check	Inspect for missing or damaged knives, change as needed or sharpen as needed.
Spindle mounting bolts (spindle to deck)	Check	Torque to 315 ft lbs lubricated. Torque to 357 ft lbs dry.
Knife mounting bolts (knife to disk or blade bar)	Check	Pre-lubricate threads w/ anti-seize, torque to: 1-1/8" knife bolts to 800 ft. lbs. 1-3/4" knife 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 357 dry or 315 oiled ft. lbs. 5/8" bolts to 204 dry or 180 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.
Ground Roller Bearings	Lubricate	Grease as instructed in detailed maintenance section.
Cuttershaft Bearings (Flail)	Lubricate	Grease as instructed in detailed maintenance section.

MAINTENANCE

WEEKLY OR EVERY 40 HOURS

ITEM	SERVICE	COMMENTS
Rotary Spindle	Lubricate	Every 40 hours or weekly

WEEKLY OR EVERY 50 HOURS

ITEM	SERVICE	COMMENTS
In Tank Hyd. Fluid Filter (10 micron filter)	Change	Change after first 50 hours only, then every 500 hrs. yearly or if indicated by the restriction indicator.
In-Line High Pressure 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	Max P.S.I.	
480/80R38	29	
18.4-34	26	
18.4-38	26	

YEARLY OR EVERY 500 HOURS

ITEM	SERVICE	COMMENTS
Spindle Grease	Change	
Hyd. Tank Fluid	Change	
In Tank Hyd. Fluid Filter (10 micron filter)	Change	
In-Line HP Filter (10 micron filter)	Change or	Change when indicated by restriction indicator.
Hyd. Tank Breather	Change	
Motor to Cuttershaft Spline Connection of TBF50 DD	Change	Grease as indicated in detailed maintenance section.
Saber	Maintenance Section 4-5	

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

TROUBLESHOOTING (Continued)

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

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

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

MAINTENANCE

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 Normal Temperatures 15° F Start-Up	Reservoir	ISO 46 Anti-Wear-Low Temp ISO 46 Anti-Wear	Mobil DTE® 15M Nuto®H46, Mobil DTE®25
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobil® 1 Synthetic Gear Lubricant LS 75W-90, Mobil Delvac Synthetic Gear Oil 75W-90
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
Motor to Cuttershaft Spline Connection of TBF50	Fill Female Spline in Cuttershaft		Accrolube with PTFE

Saber

Maintenance Section 4-8

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	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1171	1363	1545	1817	1597	2130
1 1/2	6	652	783	869	1462	1657	1950	2031	2688	3162	2779	3150	3706
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	136	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

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

Torque-Tension Relationship for Metric Fasteners													
Nominal Dia. (mm)	Pitch	 Class 4.6			 Class 8.8			 Class 10.9			 Class 12.9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed 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 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	1.5	101	115	135	270	306	360	374	424	498	437	583	
20	2.5	91	104	122	236	267	314	337	382	449	394	525	

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

*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
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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.

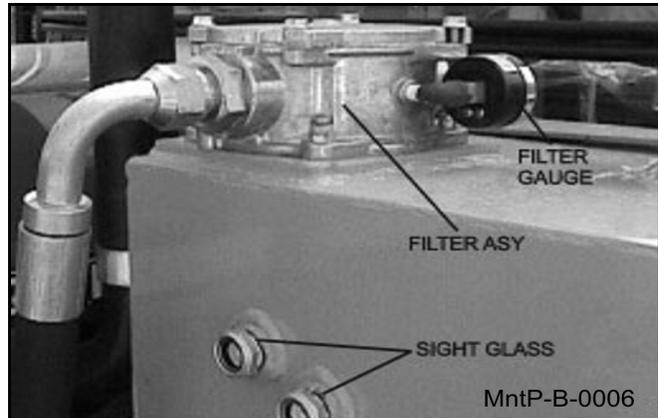
MAINTENANCE

MAINTENANCE

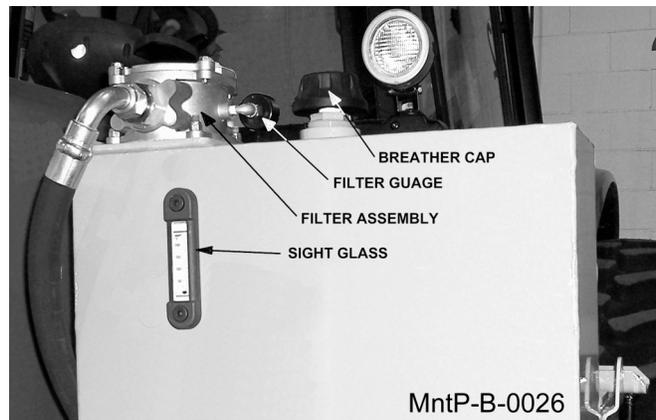
RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVOIRS

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

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



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



DETAILED MAINTENANCE

REPLACING IN-TANK HYDRAULIC FILTER:

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



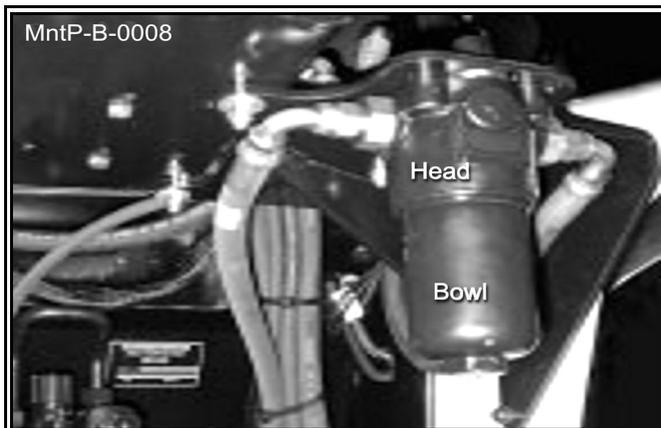
MAINTENANCE

MAINTENANCE

DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

Ensure system has been shut down and depressurized. Locate High Pressure Filter housing. Confirm that the element to be installed matches the element p/n on the filter model tag. *Example: V3.0510-06 (world line 100, HD049 model)* Locate the bottom of the High Pressure Bowl. Using the appropriate spanner wrench or ratchet, turn in a counterclockwise rotation, (looking at the bottom of the bowl) to remove the bowl from the head. The first couple rotations will seem tight as the o-ring passes the sealing flats. Once the o-ring has cleared the sealing flats the bowl should spin freely.

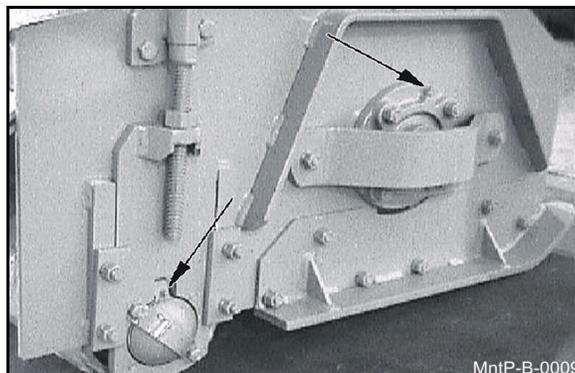


Taking care not to drop the bowl, finish removing the bowl from the head. **WARNING: bowl will be full of oil!**

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

GREASING CUTTERSHAFT - FLAIL MOWERS

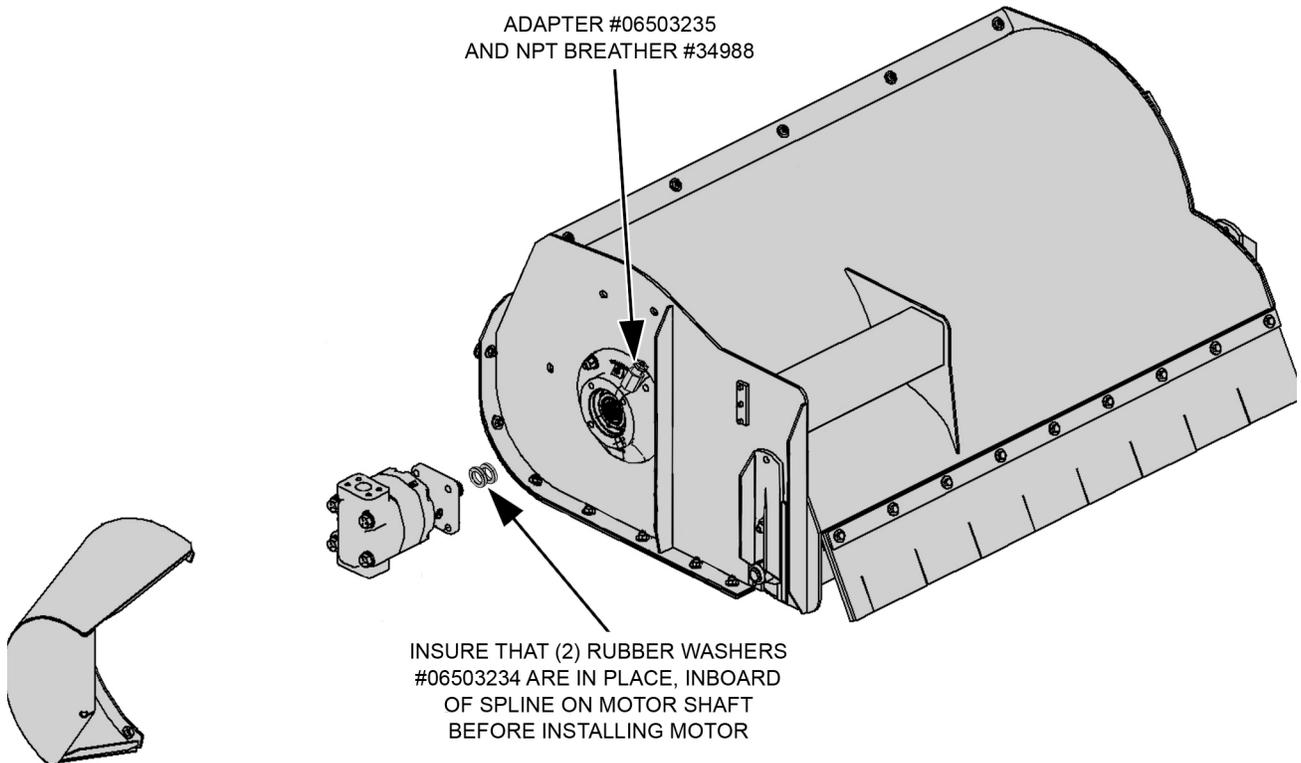
Locate grease zerks on each end of cuttershaft(s), these are located on the bearing cover. Normal conditions require one or two pumps in each bearing, using Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications. This is to be done with a standard grease gun daily or at **8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



MAINTENANCE

SABER DIRECT DRIVE

GREASING MOTOR SPLINE TO CUTTERSHAFT SPLINE CONNECTION



MAINTENANCE

1. Remove motor from bearing housing and clean old grease from splines on motor shaft and splines in cuttershaft.
2. Fill female splined bore in cuttershaft with new grease, Accrolube with PTFE (part #06520310)
3. Insure that (2) rubber washers (part #06503231) are in place, inboard of spline on motor shaft before installing motor.
4. Re-install motor and torque bolts per torque chart.

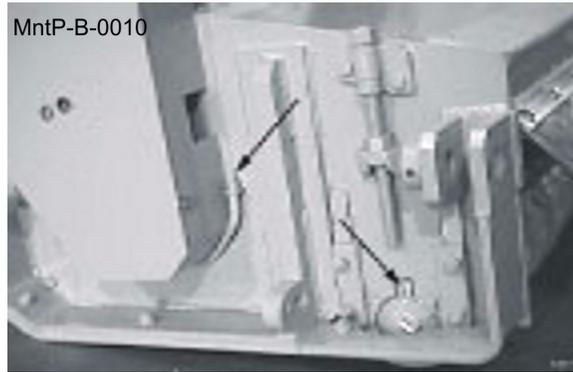
Change grease yearly or every 500 hours.

MAINTENANCE

MAINTENANCE

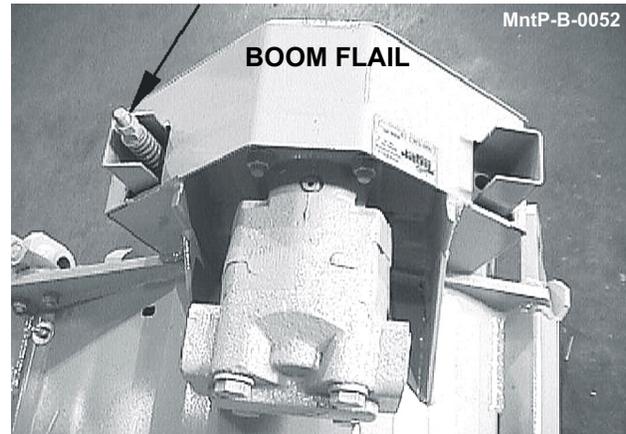
GREASING GROUND ROLLER SHAFT-FLAIL

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



ADJUSTING/CHECKING BELT TENSION

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

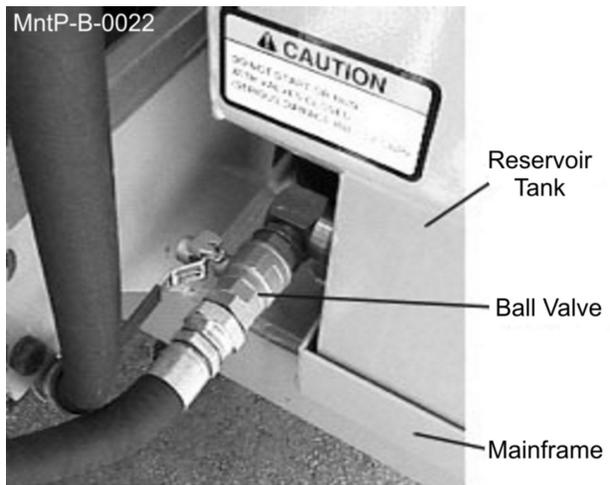


MAINTENANCE

MAINTENANCE

BALL VALVES

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



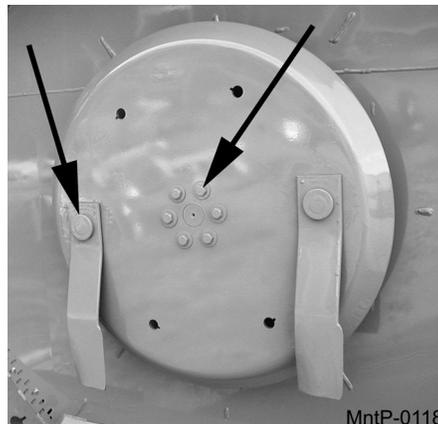
TIGHTENING KNIFE BOLTS AND DISK BOLTS:

BOOM ROTARY (SABER X3) - After every 8 hours of operation or daily, the Knife Bolts and Disk Bolts should be tightened as follows:

1-1/8" knife mounting bolts (2 ea.) torque to 870 ft. lbs. lubricated.

5/8" disk mounting bolts (6 ea.) torque to 180 ft lbs lubricated with Loctite 271, 204 ft. lbs. dry.

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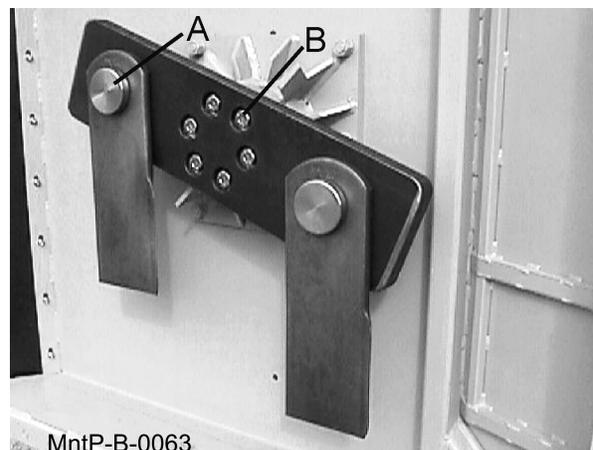


BOOM ROTARY

SABER ROTARY - After every 8 hours of operation or daily, the knife bolts and blade bar bolts should be tightened as follows:

Knife mounting bolts (A): Torque to 2000 ft. lbs., lubricated.

3/4" blade bar mounting bolts (B): Torque to 315 ft. lbs. lubed (Loctite® 271) or 357 ft. lbs. dry (plated bolts).



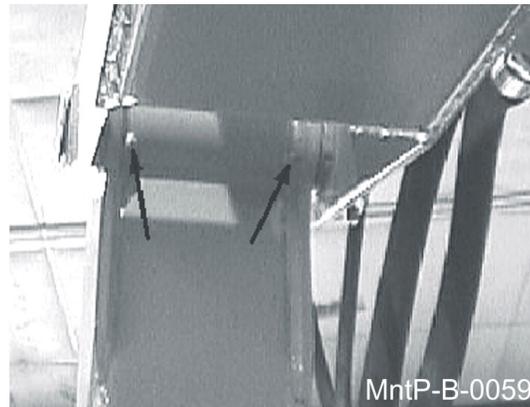
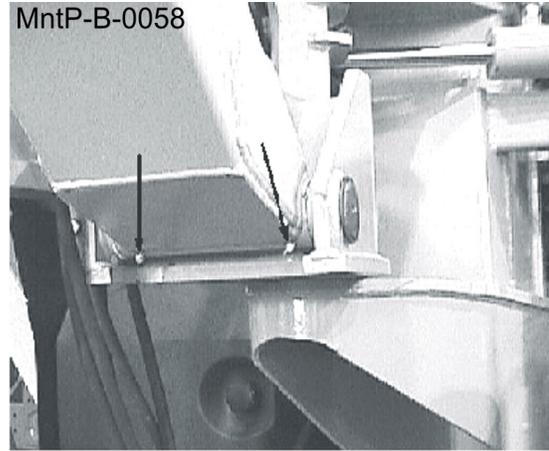
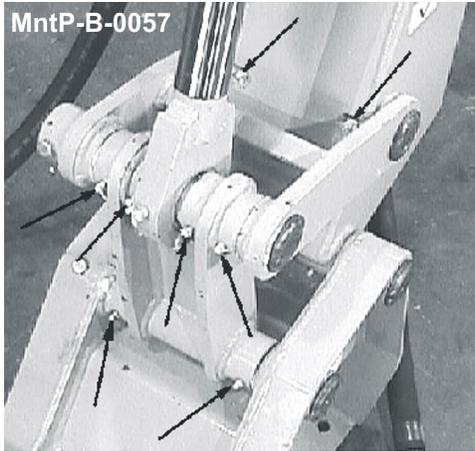
SABER ROTARY

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.

SABER



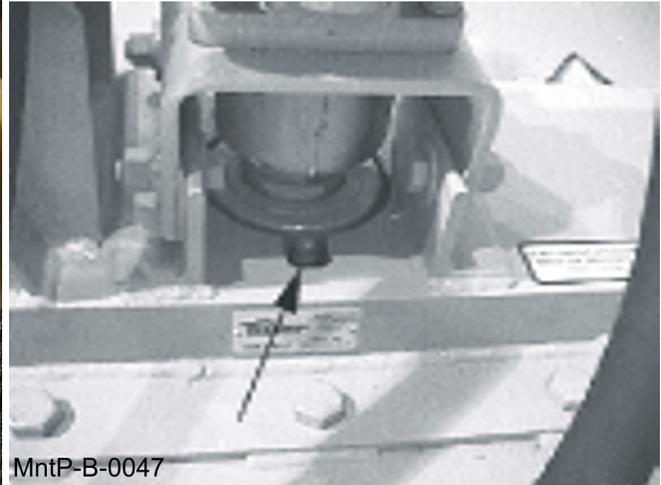
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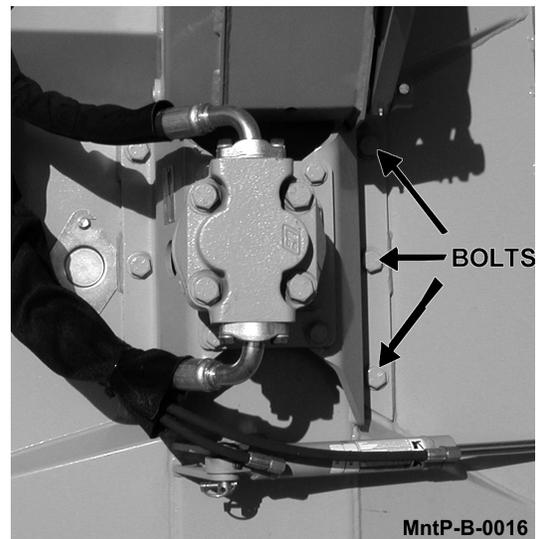
GREASING SPINDLE

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.

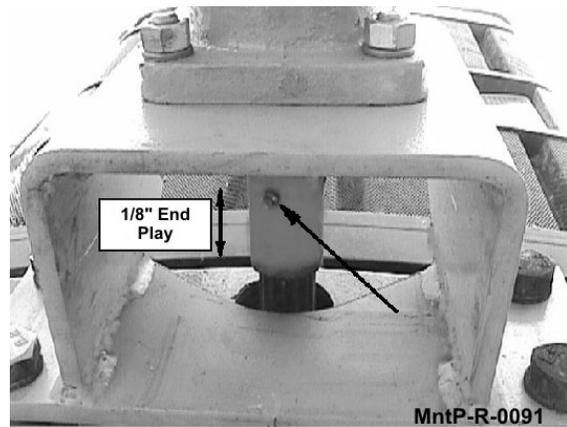


MAINTENANCE

MAINTENANCE

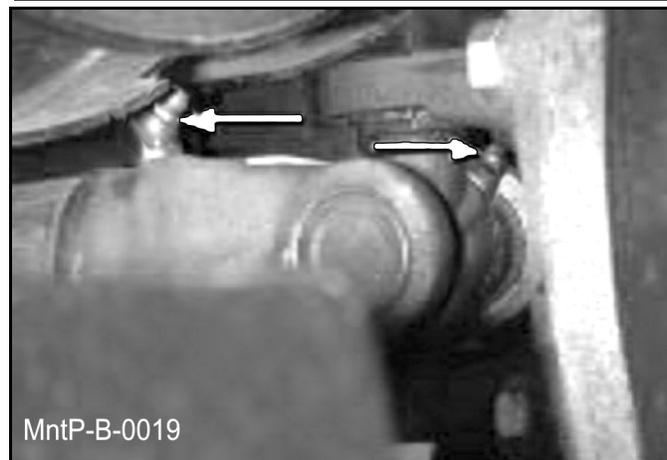
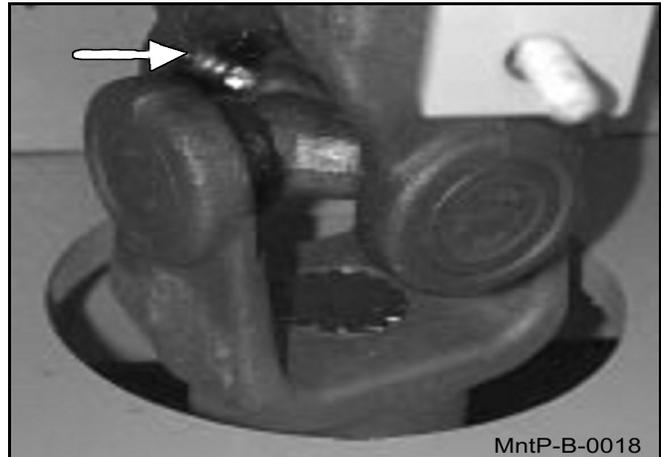
GREASING PUMP DRIVESHAFT COUPLER

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



DRIVE SHAFT YOKE, U-JOINT 7STUB SHAFT

With engine stopped, inject Lithium-Complex extreme pressure grease conforming to NLG12-ISO 320 specifications into universal joints and slip yoke until grease appears at the seal. Grease them daily or every 8 hours.

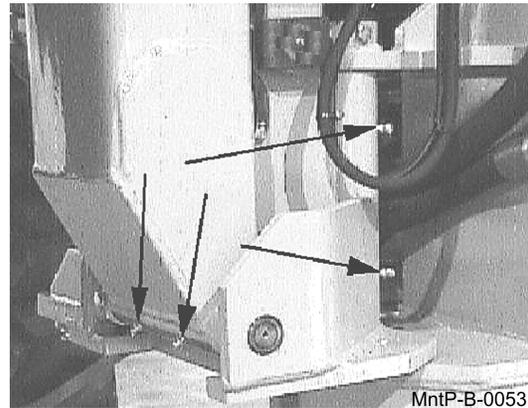


MAINTENANCE

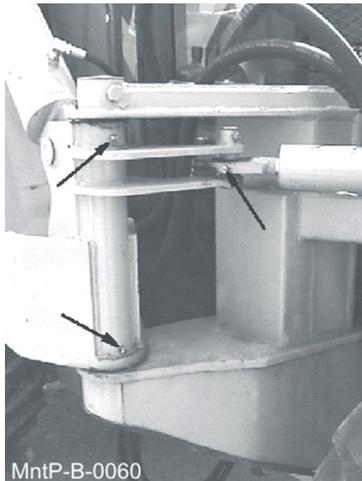
MAINTENANCE

GREASING THE BOOM SWIVEL

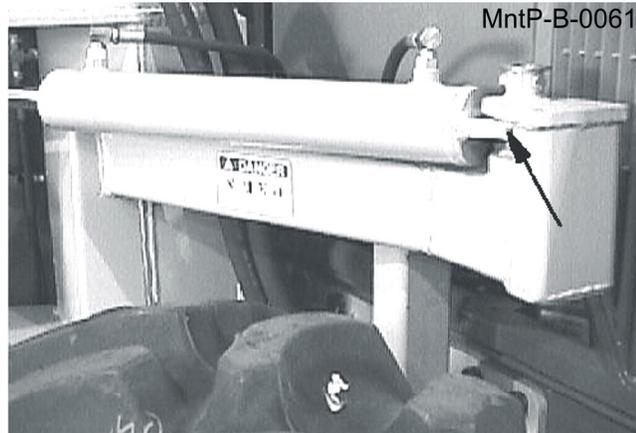
Locate the zerks on the main swivel boss (2), main boom pivot boss (2) and on both ends of the boom swivel cylinder. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specification until grease begins to protrude from ends every 8 hours.



BOOM SWIVEL



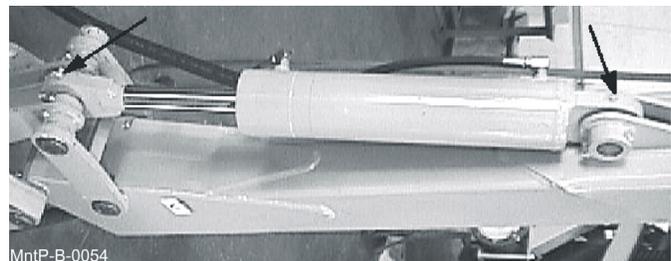
SABER SWIVEL



SABER SWIVEL

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

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

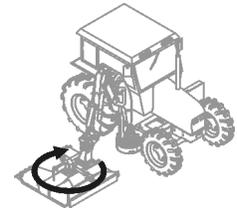
Blades should always be replaced in pairs. Blades of different weights can cause serious imbalance and damage to the machine and personnel. When replacing blades, take care to replace the blade bolts, nuts, and washers.

Important

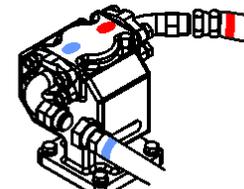
Make sure the mower blades are turning clockwise when looking down from the top of the mower. Follow the color coding on the hydraulic hoses and fittings to make sure the motor and hydraulics hoses are assembled properly. Connect the red hose connection only to red fitting. Connect the blue hose connection 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.



1.

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

D619

MAINTENANCE

ROTARY KNIFE REPLACEMENT (TRB 50)

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. 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 800 LUBRICATED FT. LBS.

ROTARY KNIFE REPLACEMENT (SABER 50" ROTARY)

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. Install bolts through knife and disk from the bottom side of disk. Install new self-locking nuts and torque them to 2000 ft lbs.
4. The knives should swing freely to absorb shocks from impact when striking objects.

REPLACEMENT OF ROTARY DISK (TRB 50)

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

REPLACEMENT OF SABER 50" ROTARY BLADE BAR

1. The bolts that attach the blade bar must be grade 8. These 3/4" bolts are to be torqued to 357 ft lbs dry or 315 ft lbs lubed with Loctite 271.
2. A thread locking agent may be applied to threads of all mounting bolts before they are installed.
3. Inspect daily for hairline cracks around knife and blade bar mounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present the knives and blade bar must be replaced.
4. Inspect the blade bar mounting bolts when checking tightness of knife mounting bolts. If a blade mounting bolt is loose, it must be removed, threads cleaned, fresh thread locking agent applied, and tightened to proper torque value.
5. If a knife mounting bolt is loose, the self-locking nut must be replaced as a safety precaution. Lubricate threads with anti-seize. Install bolts and self-locking nuts and torque to 2000 ft lbs.

MAINTENANCE

Flail Blades Inspection

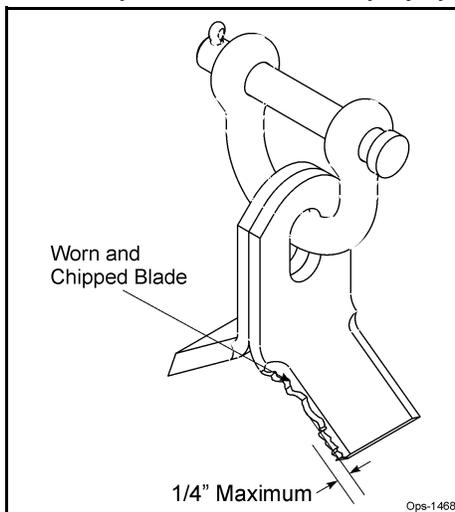


Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

- 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.



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

Blade Pins and D-Ring Inspection

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

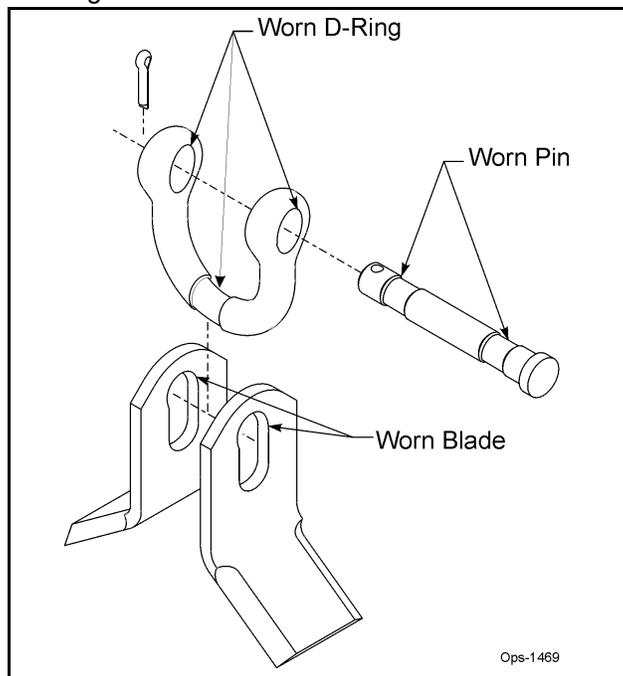


Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

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

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

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



Important

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

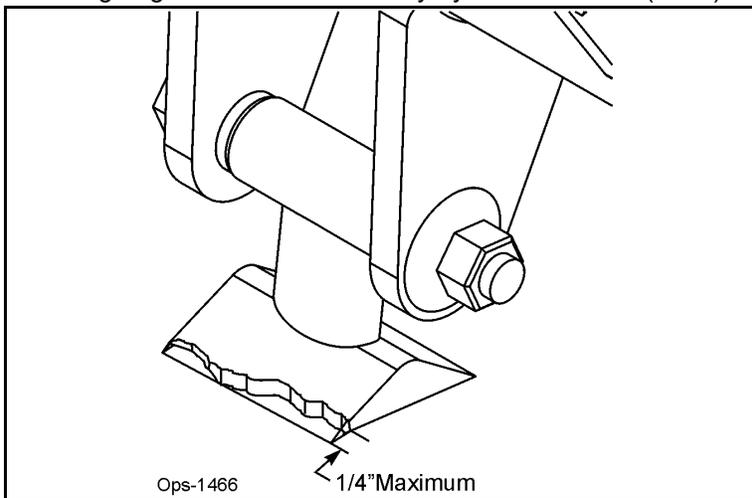
MAINTENANCE

Flail Axe Blades Inspection



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

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



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

Always replace blades in sets

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

Important

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



Never attempt to sharpen blades. OPS-U-0042

MAINTENANCE

Flail Axe Blade Bolt Inspection

Inspect Blade Bolts daily for wear or damage as follows:

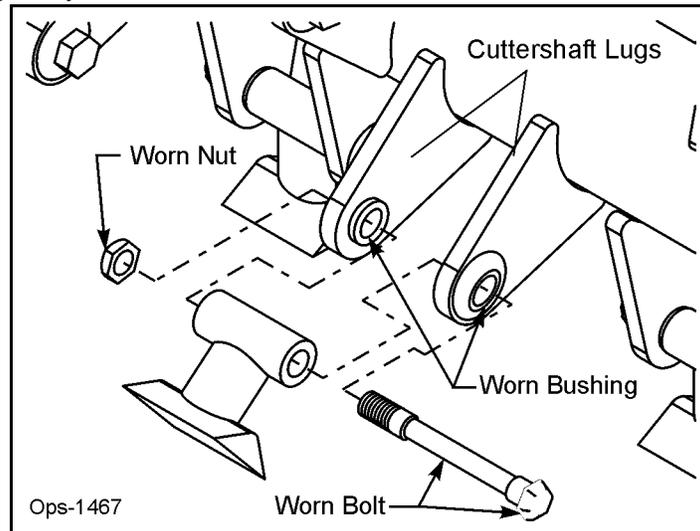


Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

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

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

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



MAINTENANCE

50" FLAIL KNIFE BLADE REPLACEMENT

1. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower. The knife should not be welded on for any reason.
2. Always replace the knife bolts when replacing the knives. DO NOT REUSE THE KNIFE BOLTS OR NUTS.
3. Assemble knives, bushings, bolts and nuts as shown in part section of the manual.
4. Install the locking hex nut so that the flat face of the nut is towards the knife.
5. Apply Loctite® "271" or equivalent to threads.
6. Torque nut to 52 ft. lbs. Knife must swing freely.

MAINTENANCE



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

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 BLADE 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 hex nuts.

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. lubricated.



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



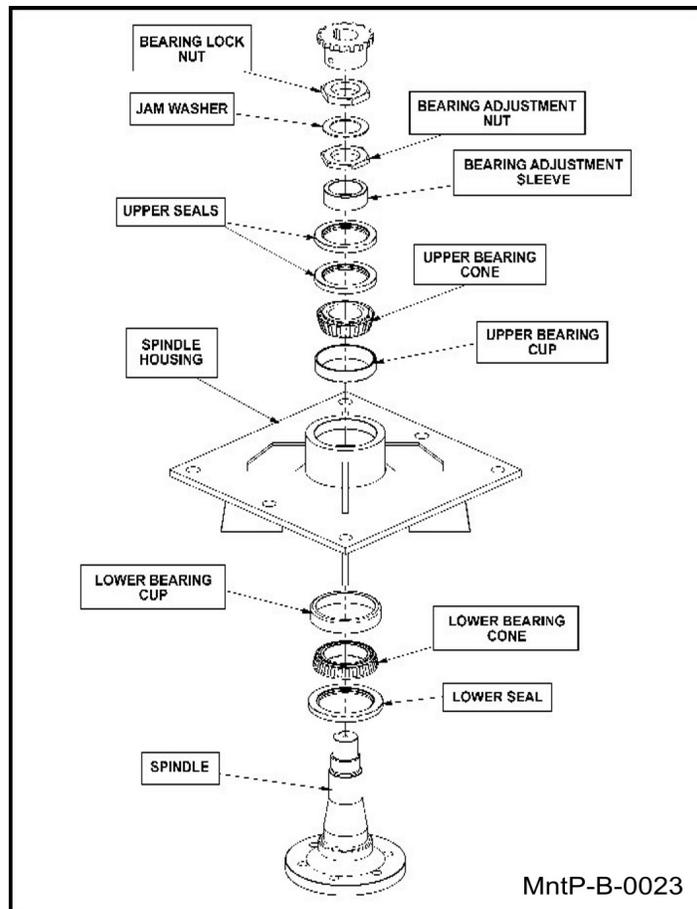
A press **MUST** be used to install bearing cups, bearing cones, and seals. **DO NOT** use a hammer to install races, bearings, or seals. The parts of assembly may be damaged.

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

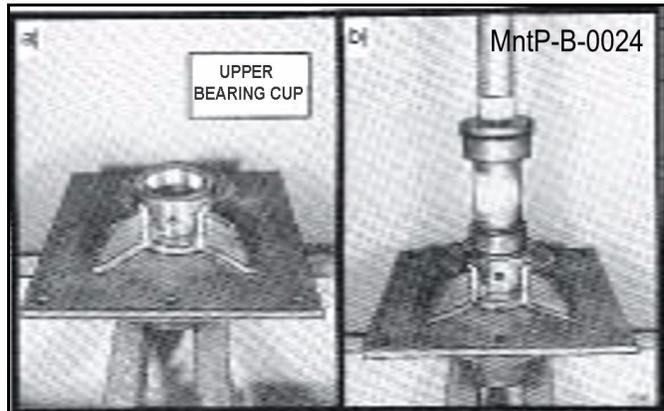
See the diagram below for identification of spindle parts, while servicing.



MAINTENANCE

SPINDLE 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.

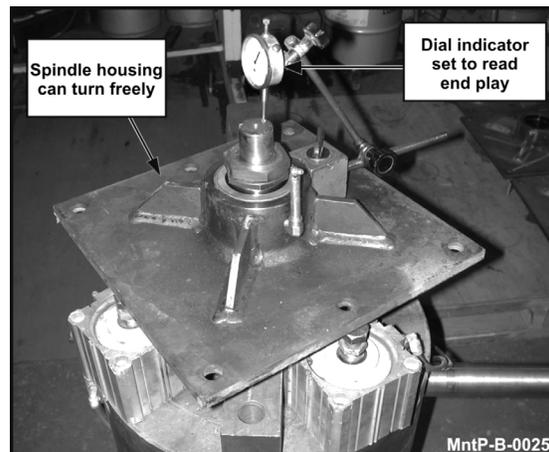


NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.

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.

SPINDLE 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.

MAINTENANCE

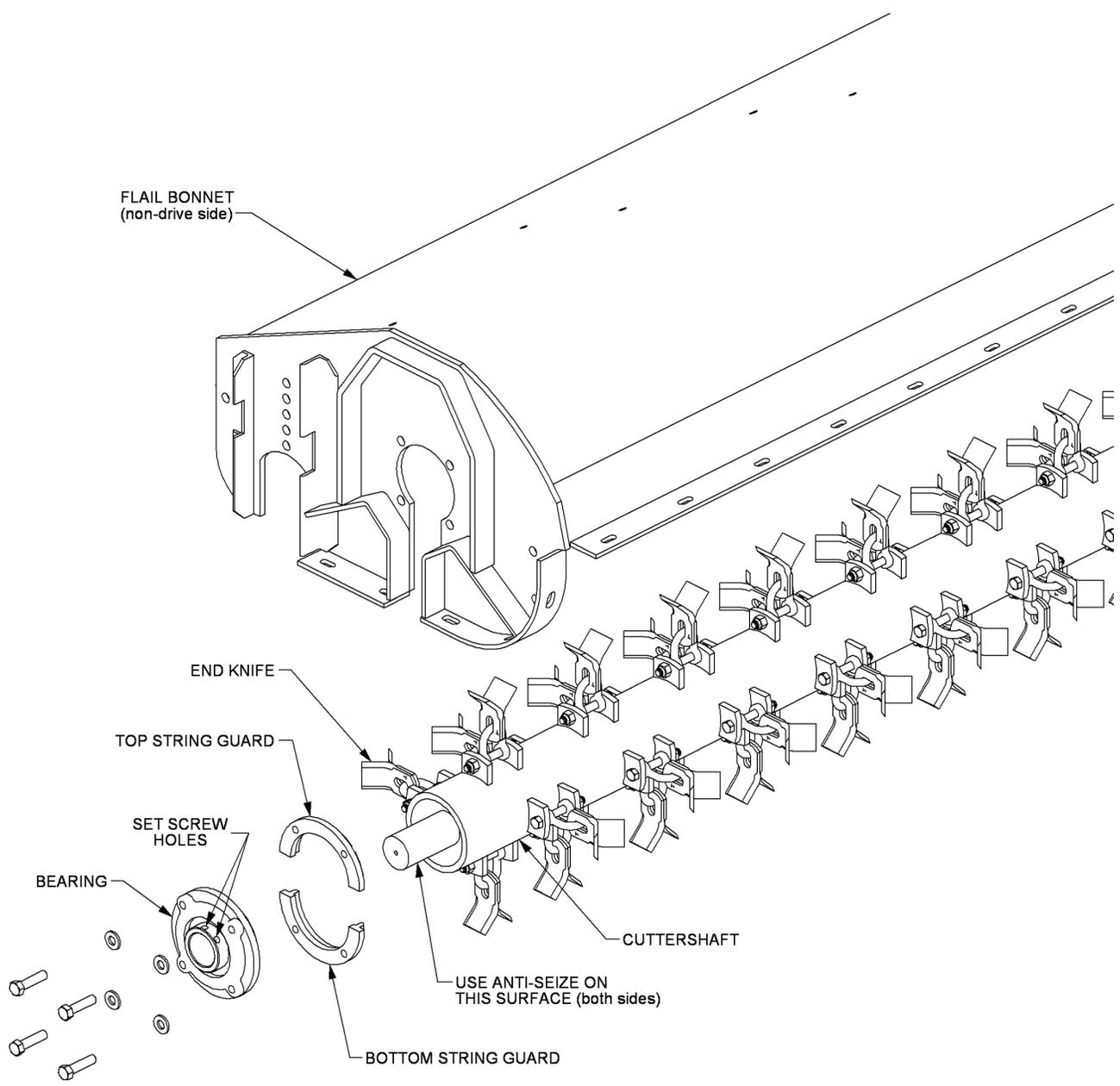
CUTTERSHAFT BEARING REPLACEMENT FOR FLAIL MOWERS

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

See illustration on next page

MAINTENANCE

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 operator's manual.

- _____ Pump driveshaft: If required with drive shaft/coupler check for end play and lubricate at zerks.
- _____ Crankshaft adapter: If equipped with rubber grommets check condition, replace if missing or damaged.
- _____ Pivot points: Inject grease until it appears at ends.
- _____ Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or replace hoses immediately.
- _____ Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.
- _____ 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.
- _____ Mainframe/deck: Unless otherwise specified retorque bolts according to torque specifications in this section.
- _____ Hydraulic fluid level: Add, if required, per fluid recommendations.
- _____ Rear flail drive, bearing flange and shaft couplers: Grease as instructed in the detailed maintenance section.
- _____ Cuttershaft and ground roller: Grease as instructed in the detailed maintenance section.

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

Meter: _____

Maintenance Section

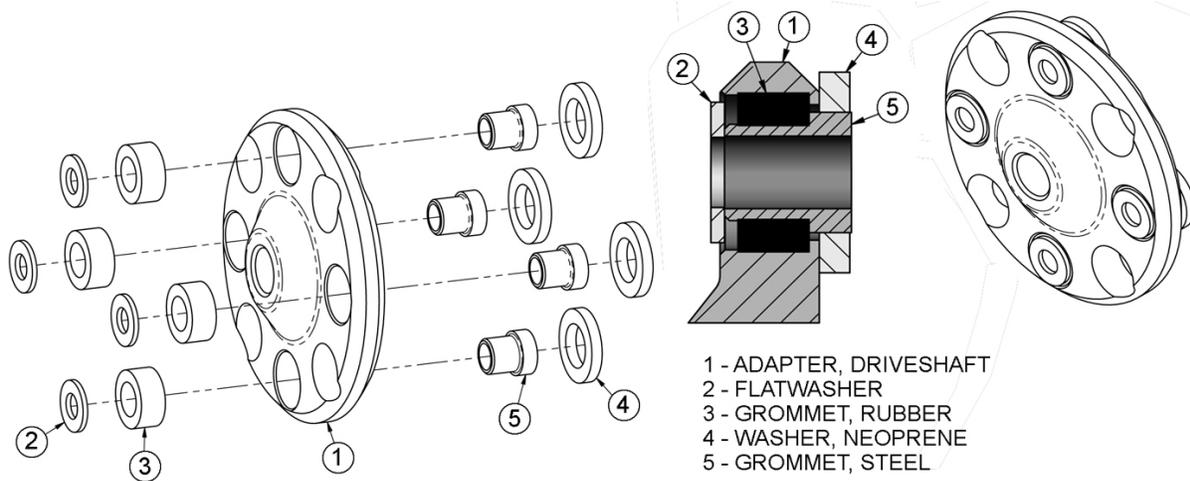
**This page may be copied and used as part of the daily maintenance routine.

MAINTENANCE

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

If replacement of components of the crankshaft adapter assembly is required, follow the assembly procedures shown below. Seat rubber grommet completely into counterbore, then seat steel grommet completely into rubber grommet while rubber grommet is supported.

(ASM-JD-0051 CRANKSHAFT ADAPTER MAINTENANCE)



MAINTENANCE

MAINTENANCE

MAINTENANCE

PARTS SECTION

PART NAME INDEX

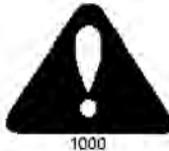
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PARTS ORDERING GUIDE

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

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

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

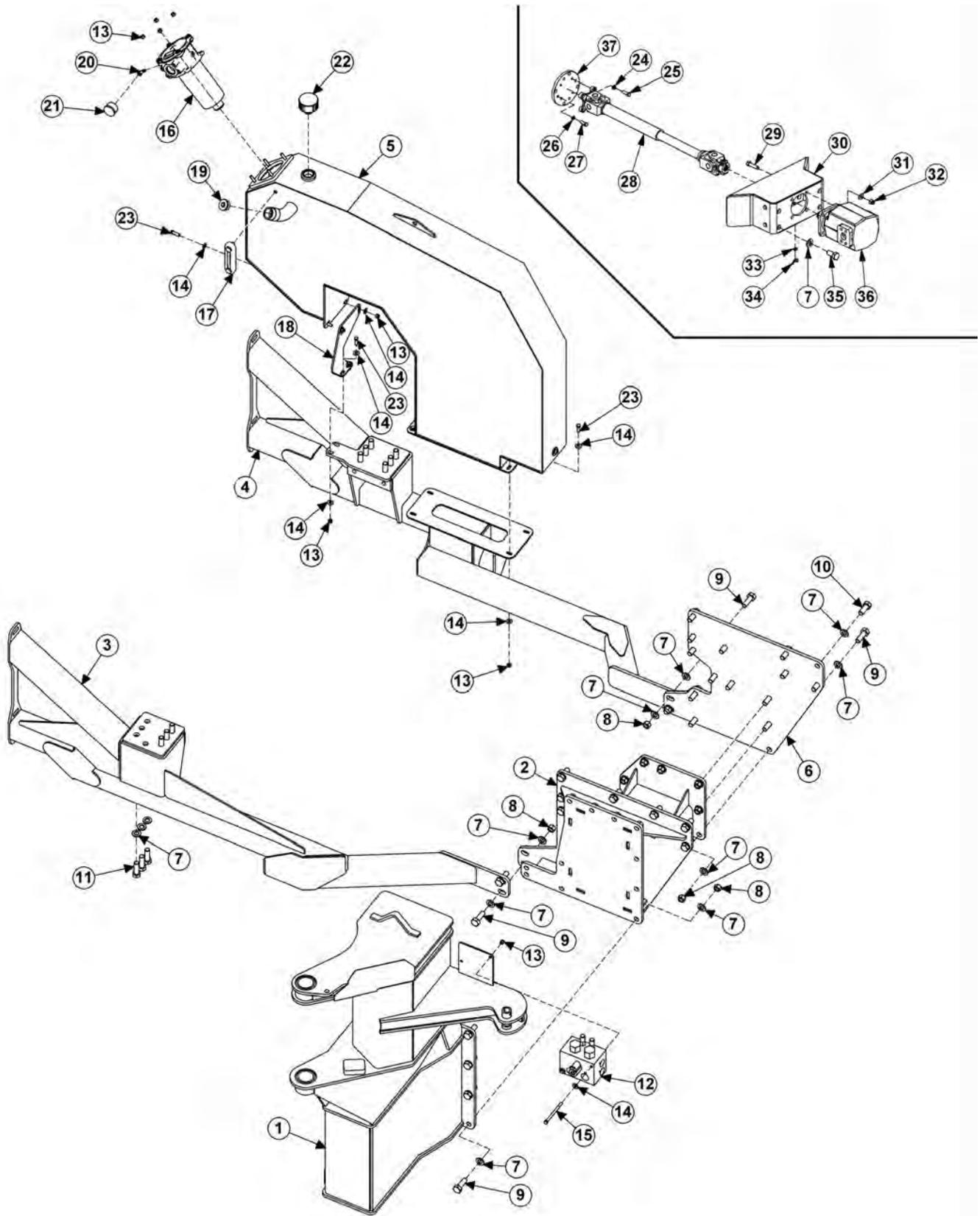


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

TRACTOR MOUNT KIT



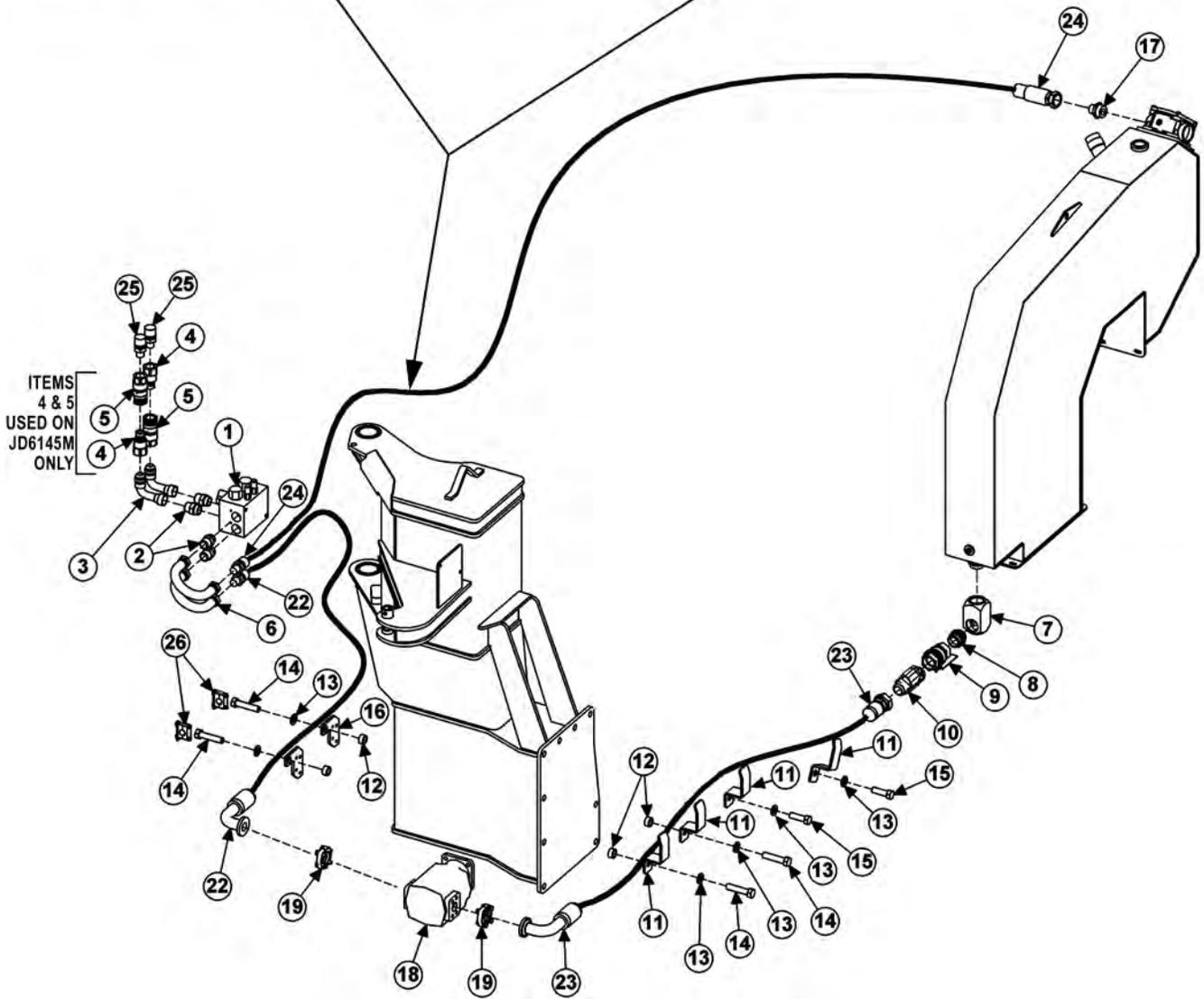
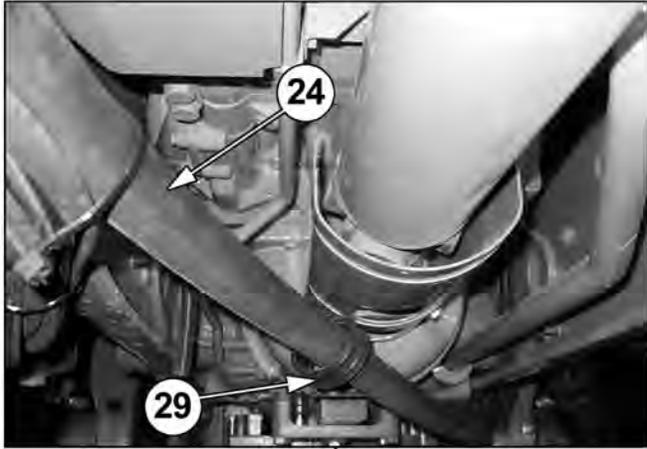
TRACTOR MOUNT KIT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300348	1	MAINFRAME, TB, JD6145-55M/R T4F
2	06300344	1	MAINFRAME MNT, JD6145-55M/R
3	06300345	1	AXLE BRACE, RH, JD6145M
---	06300356	1	AXLE BRACE, RH JD6155M, JD6145-55R
4	06300346	1	AXLE BRACE, LH, JD6145M
----	06300357	1	AXLE BRACE, LH, JD6155M, JD6145-55R
5	06380084	1	TANK, RES, JD6M, T4F
6	06402240	1	UPRIGHT, LH, JD6150R
7	33880	68	FLATWASHER, 3/4" GR8, SAE
8	21825	20	HEX NUT, 3/4" NC
9	21833	20	CAPSCREW, 3/4" X 2-1/4" NC
10	31731	16	CAPSCREW, 20MM X 50MM (2.5 PITCH)
11	27281	12	CAPSCREW, 20MM X 60MM (2.5 PITCH)
12	06510083	1	VALVE, BRAKE, SOL, 3000PSI
13	21627	14	NYLOCK NUT, 3/8" NC
14	22016	18	FLATWASHER, 3/8" GR8
15	21644	2	CAPSCREW, 3/8" X 5" NC
16	06505044	1	FILTER ASSY, IN-TANK, CPLT, SAE 10
17	06505067	1	SIGHT GAUGE
18	06412418	1	SUPPORT, TANK, JD6145M
---	06411929	1	SUPPORT, TANK JD6155M, JD6145-55R
19	06505127	1	PLUG, SAE #20
20	TF4888	1	STREET ELBOW, 1/8"
21	6T0649	1	FILTER GAUGE
22	06505077	1	CAP, BREATHER, 1-5/8MB
23	21631	8	CAPSCREW, 3/8" X 1-1/4" NC, GR8
24	21989	4	LOCKWASHER, 7/16"
25	21680	4	CAPSCREW, 7/16" X 1-1/4" NC
26	32691	4	LOCKWASHER, 10MM
27	23113	4	CAPSCREW, 10MM X 30MM 1.5P
28	34999	1	DRIVESHAFT, U-JOINT
29	21733	4	CAPSCREW, 1/2" X 2" NC
30	34993	1	PUMP MOUNT
31	06533004	4	FLATWASHER, 1/2" SAE
32	21727	4	NYLOCK NUT, 1/2" NC
33	22014	1	FLATWASHER, 1/4"
34	32519	1	WING NUT, 1/4"
35	24860	4	CAPSCREW, 20MM X 40MM 2.5P
36	23152	1	PUMP
37	34998	1	SPACER, DRIVESHAFT

JD6145-55M-R SABER

TRACTOR MOUNT KIT - HYDRAULICS

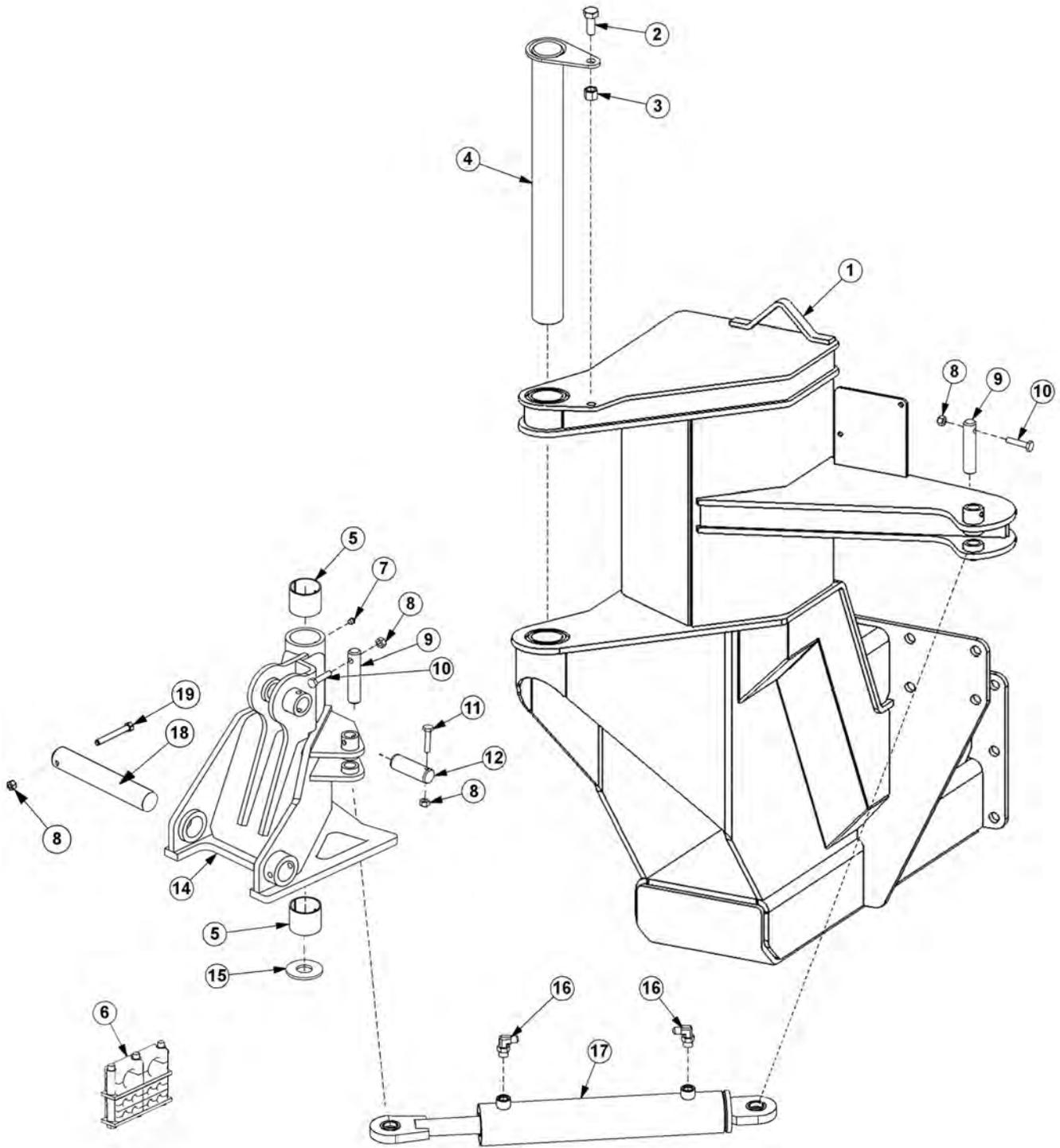


TRACTOR MOUNT KIT - HYDRAULICS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06510084	1	BRAKE VALVE
2	33555	4	ADAPTER, 1MB X 1MJ
3	06503200	2	ELBOW, 16MJ X 16FJX, BT90
4	06503028	2	QUICK COUPLER 1" SAE, MALE, FLAT (JD6145M ONLY)
5	06503027	2	QUICK COUPLER, 1" SAE, FEM, FLAT (JD6145M ONLY)
6	06506012	2	PREFORMED TUBES
7	06503084	1	ELBOW, 1-1/2FOR X 1-1/2FOR
8	06503083	1	ADAPTER, 1-1/2ORB X 1-1/2ORB
9	34309	1	BALL VALVE, 1-1/2"
10	34394	1	ELBOW, 1-1/2ORB X 1-1/2MJ45
11	32382	4	BRACKET, HOSE
12	24849	4	SPACER
13	33880	6	FLATWASHER, 3/4" GR8, SAE
14	30708	4	CAPSCREW, 20MM X 90MM (2.5 PITCH)
15	21834	2	CAPSCREW, 3/4" X 2-1/2" NC
16	34626	2	CLAMP BRACKET
17	34064	1	ADAPTER, 1-1/4MOR X 1 MJ
18	23152	1	PUMP, P350-1-3/4 GEAR
19	TF4852	2	FLANGE KIT #20
22	06500827	1	HOSE, 1" X 97"
23	06500701	1	HOSE, 1-1/2" X 126"
24	06500960	1	HOSE, 1" X 203"
25	33546	2	HOSE, 1" X 94"
26	34076	1	CLAMP KIT
29	06520536	1	CLAMP, HOSE 2-1/2" INS

SABER BOOM MOUNT

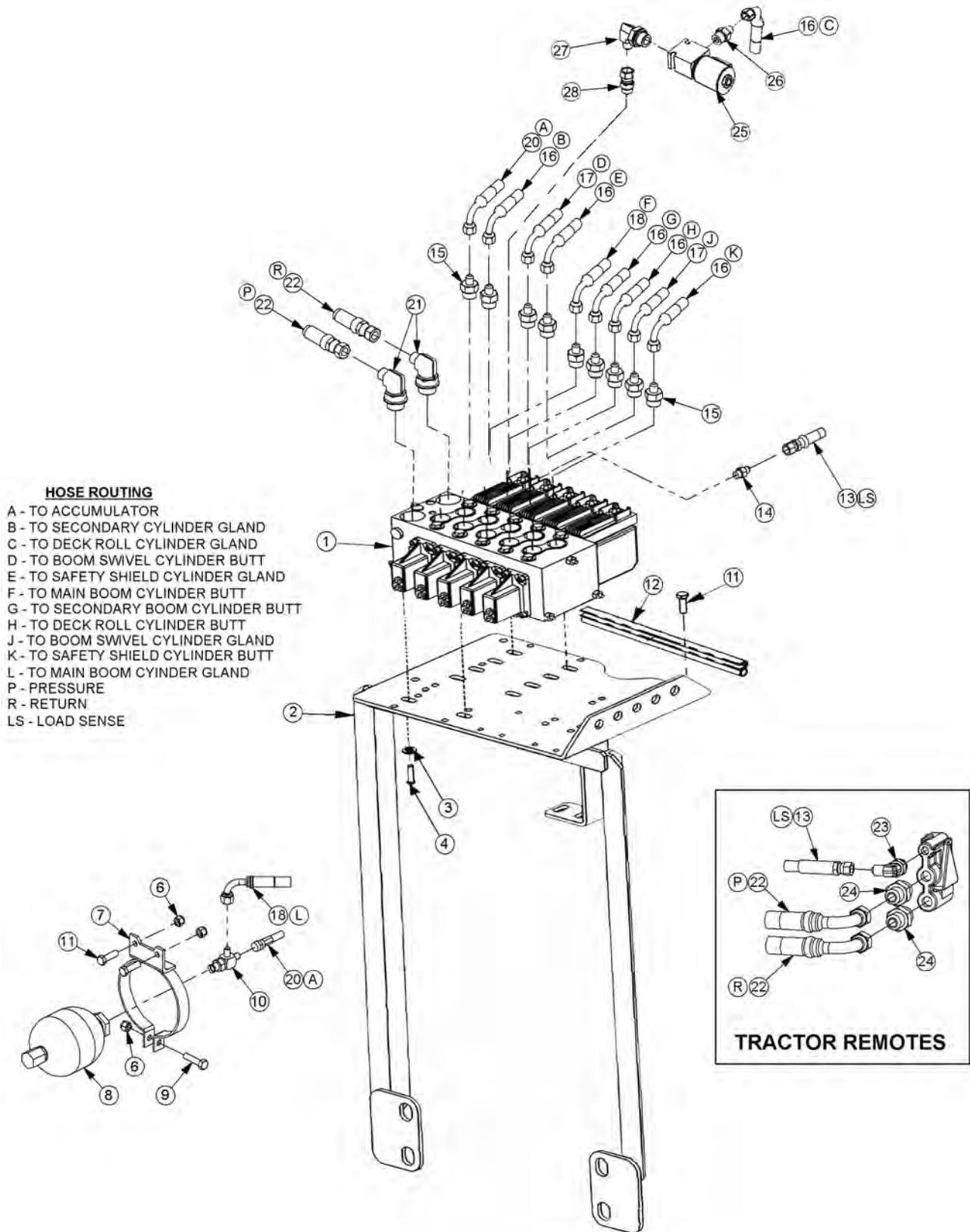


SABER BOOM MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	----	-	MAINFRAME *REFER TO TRACTOR MOUNT KIT
2	21782	1	CAPSCREW, 5/8" X 1-3/4" NC
3	21777	1	NYLOCK NUT, 5/8" NC
4	32381	1	PIN, 2/5" X 24.75", CAP
5	32322	2	BUSHING
6	06505193	1	CLAMP KIT
7	6T3211	2	GREASE ZERK, 1/8" NPT
8	21677	4	NYLOCK NUT, 7/16"
9	32380	2	PIN, 1"
10	21683	2	CAPSCREW, 7/16" X 2" NC
11	21687	1	CAPSCREW, 7/16" X 3" NC
12	32372	1	PIN, 1-1/2"
13	---	-	SPHERICAL BEARING *NOT FOR SALE
14	06700222	1	SWIVEL, T4F, SABER
15	06520250	1	BEARING, WASHER, SWING, SBR
16	33259	2	ELBOW
17	06501029	1	CYLINDER, 3" X 13.88"
18	32378	1	PIN, 2" X 12.97"
19	21688	1	CAPSCREW, 7/16" X 3-1/4"

ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT

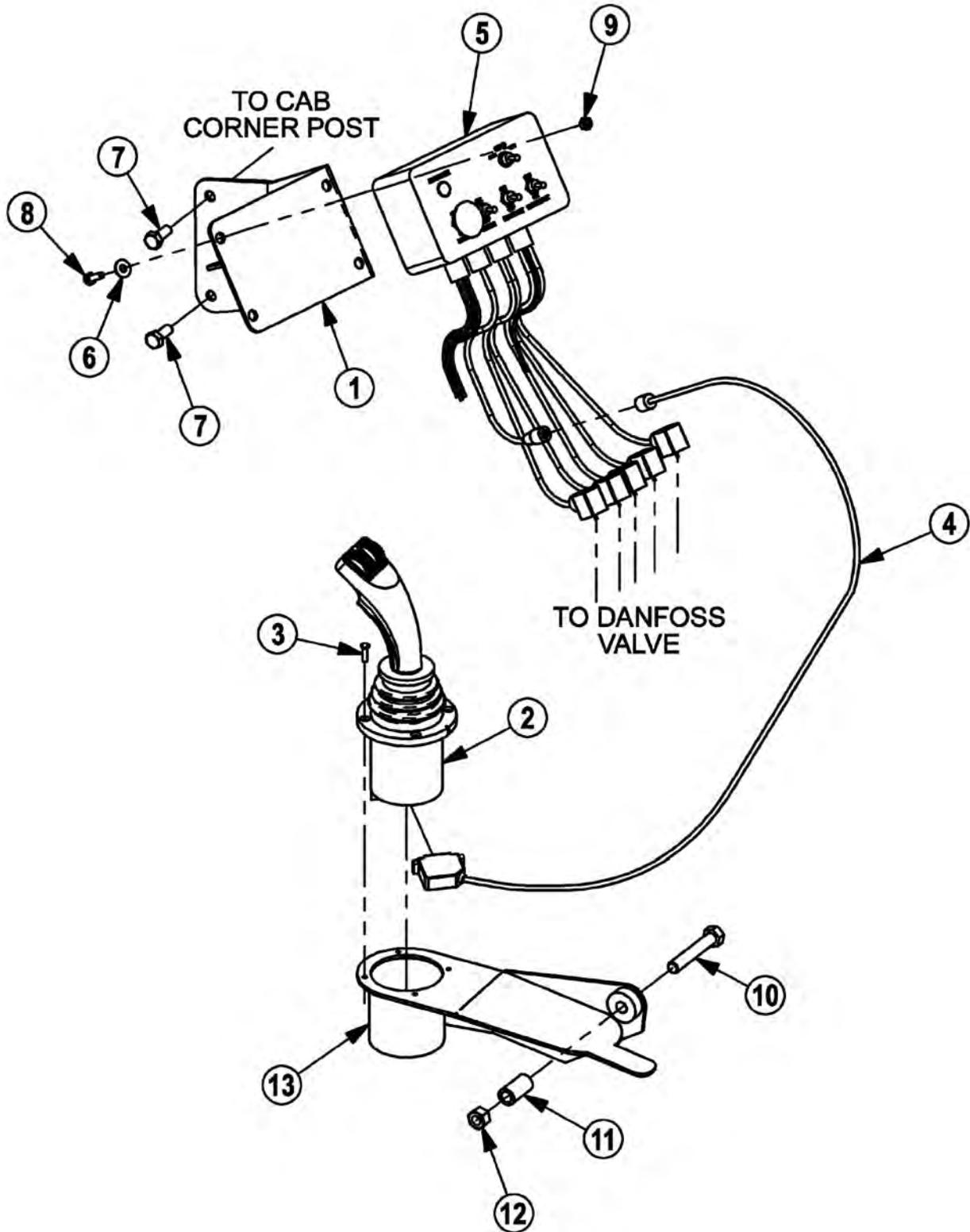


ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06502146	1	ELECTRONIC LIFT VALVE
2	06340048	1	PLATE, VALVE, JD6XXXR
3	21987	4	LOCKWASHER, 5/16"
4	21579	4	CAPSCREW, 5/16" X 3/4", NC
6	21627	5	NYLOCK NUT, 3/8", NC
7	23888	1	BRKT, ACCUMULATOR
8	24300	1	ACCUMULATOR
9	21632	1	CAPSCREW, 3/8" X 1-1/2", NC
10	06503029	1	TEE, RUN
11	21631	4	CAPSCREW, 3/8" X 1-1/4", NC
13	06500400	1	HOSE, 1/4" X 30"
14	33392	1	ADAPTER
15	32807	9	ADAPTER
16	06500914	6	HOSE, 1/4" X 282"
17	06500697	2	HOSE, 1/4" X 210"
18	06500915	2	HOSE, 1/4" X 296"
20	33744	1	HOSE, 1/4" X 34"
21	33294	2	ELBOW
22	06500171	2	HOSE, 1/2" X 36"
23	06503013	1	ELBOW, 14MM MOR X 5/16" MJ
24	33463	2	ADAPTER, 22MM MOR X 1/2" MJ
25	06510050	1	TRAVEL LOCK, METRIPACK COIL
26	33271	1	ADAPTER, 1/2" MOR X 3/8" MJ
27	33382	1	ELBOW, 1/2" MB X 1/2" MJ
28	06503041	1	ADAPTER, 5/8" ORB X 1/2" FJX

JOYSTICK AND SWITCHBOX MOUNT

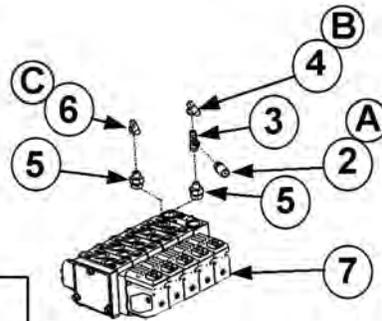


JOYSTICK AND SWITCHBOX MOUNT

Continued...

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

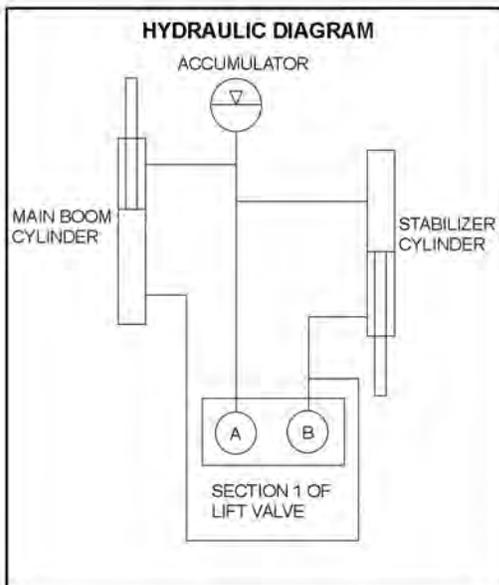
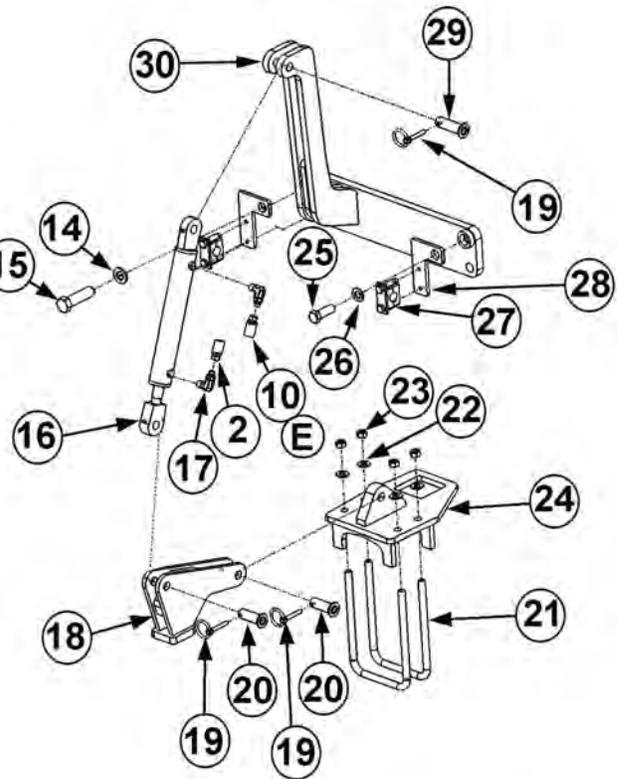
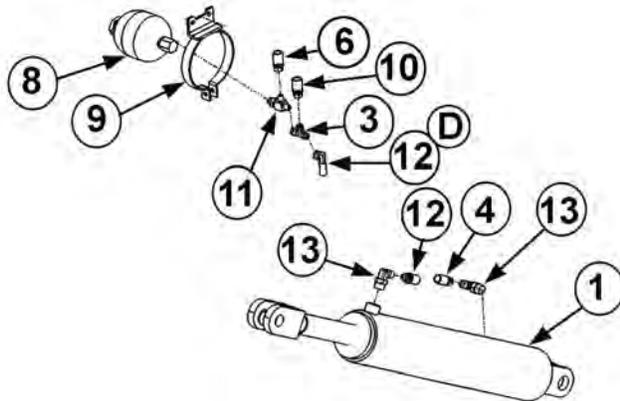
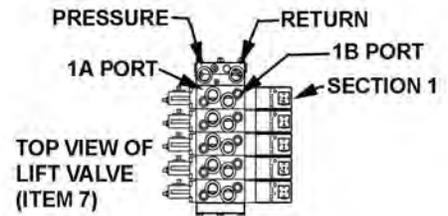
AXLE STABILIZER - VERSION ONE



HOSE ROUTING KEY

- A- FROM 1B PORT ON LIFT VALVE TO STABILIZER CYLINDER GLAND
- B-FROM 1B PORT ON LIFT VALVE TO MAIN BOOM CYLINDER BUTT
- C- FROM 1A PORT ON LIFT VALVE TO ACCUMULATOR
- D- FROM ACCUMULATOR TO MAIN BOOM CYLINDER GLAND
- E- FROM STABILIZER CYLINDER BUTT TO ACCUMULATOR

NOTE: THIS INFORMATION REFERS TO JD6145-55M TRACTORS WITH SERIAL NUMBERS OF 866615 OR LOWER OR JD6145-55R TRACTORS WITH SERIAL NUMBERS OF 027000 OR LOWER.



LOCATE HOLE IN ITEM 24 AROUND AXLE STOP ON RIGHT FRONT AXLE.

USE ITEMS 21, 22, & 23 TO CLAMP ITEM 24 TO AXLE.

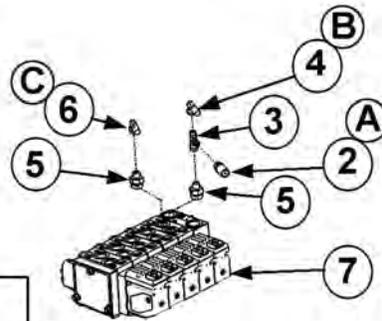
AFTER INSTALLATION, ARTICULATE FRONT AXLE FROM STOP TO STOP AND EXTEND AND RETRACT CYLINDER FULLY TO ENSURE A PROPER FIT.

AXLE STABILIZER - VERSION ONE

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	BOOM CYLINDER *REFER TO COMMON SECTION
2	06500730	1	HOSE,3/8" X 227"
3	06503048	2	RUN TEE,3/8"MJ X 3/8"FJX X 3/8"MJ
4	-----	-	HOSE *REFER TO LIFT VALVE PAGE
5	-----	-	ADAPTER *REFER TO LIFT VALVE PAGE
6	-----	-	HOSE *REFER TO LIFT VALVE PAGE
7	-----	-	LIFT VALVE *REFER TO LIFT VALVE PAGE
8	-----	-	ACCUMULATOR *REFER TO LIFT VALVE PAGE
9	-----	-	ACCUMULATOR BRKT *REFER TO LIFT VALVE PAGE
10	06500731	1	HOSE,3/8" X 234"
11	-----	-	RUN TEE *REFER TO LIFT VALVE PAGE
12	-----	-	HOSE *REFER TO LIFT VALVE PAGE
13	-----	-	ELBOW *REFER TO LIFT VALVE PAGE
14	33880	2	FLATWASHER,3/4",SAE
15	32703	1	CAPSCREW,20MM X 100MM,2.5P
16	33785	1	CYLINDER,1-1/2" X 8"
17	06503055	2	ELBOW,1/4"MOR X 3/8"MJ
18	06310132	1	LINK,PIVOT,STABILIZER
19	RD1032	3	LYNCH PIN
20	33984	2	PIN,3/4" X 2-7/16"
21	06420164	2	U-BOLT
22	06533004	4	FLATWASHER,1/2",SAE
23	21700	4	HEX NUT,1/2",UNC
24	06310133	1	MOUNT,AXLE
25	-----	-	CAPSCREW *REFER TO LIFT VALVE PAGE
26	-----	-	FLATWASHER *REFER TO LIFT VALVE PAGE
27	-----	-	CLAMP KIT *REFER TO LIFT VALVE PAGE
28	-----	-	BRACKET *REFER TO LIFT VALVE PAGE
29	34799	1	PIN,3/4" X 2-15/16"
30	06310177	1	STABILIZER,AXLE,CYL MNT

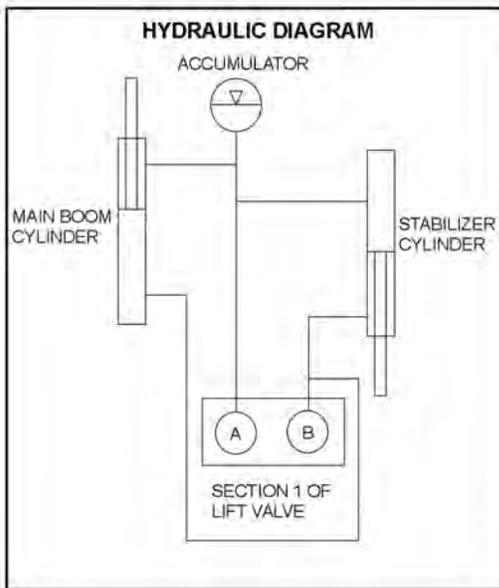
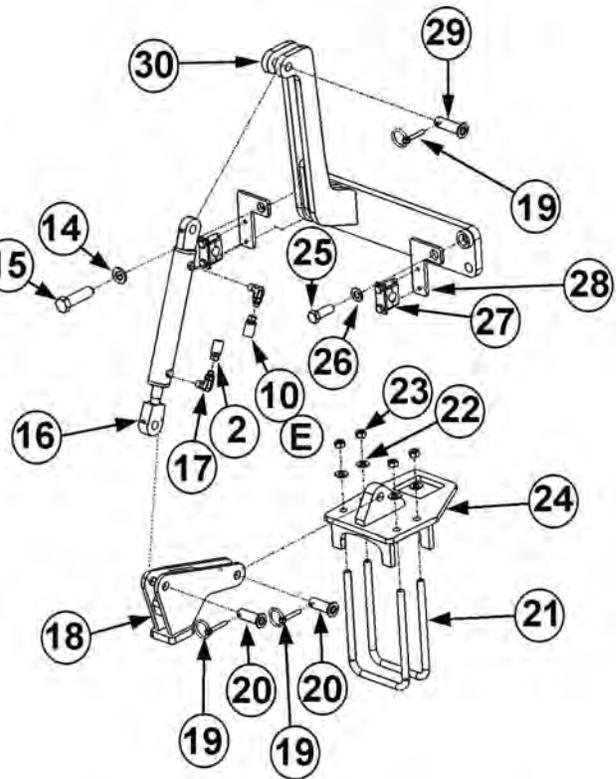
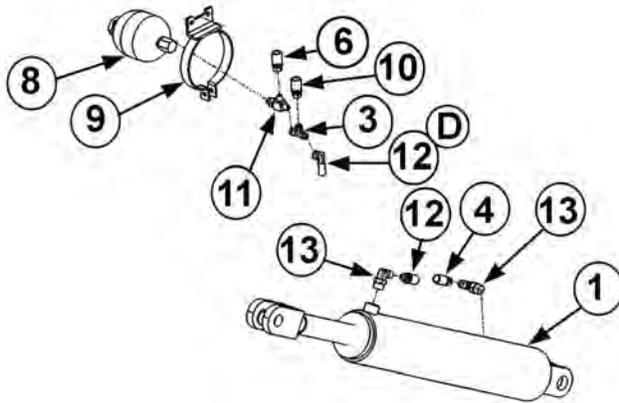
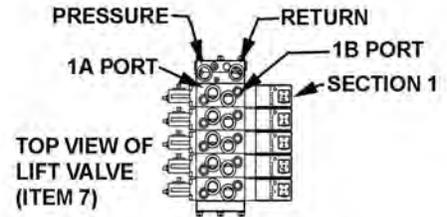
AXLE STABILIZER - VERSION TWO



HOSE ROUTING KEY

- A- FROM 1B PORT ON LIFT VALVE TO STABILIZER CYLINDER GLAND
- B- FROM 1B PORT ON LIFT VALVE TO MAIN BOOM CYLINDER BUTT
- C- FROM 1A PORT ON LIFT VALVE TO ACCUMULATOR
- D- FROM ACCUMULATOR TO MAIN BOOM CYLINDER GLAND
- E- FROM STABILIZER CYLINDER BUTT TO ACCUMULATOR

NOTE: THIS INFORMATION REFERS TO JD6145-55M TRACTORS WITH SERIAL NUMBERS OF 866616 AND HIGHER OR JD6145-55R TRACTORS WITH SERIAL NUMBERS OF 027001 OR HIGHER.



LOCATE HOLE IN ITEM 24 AROUND AXLE STOP ON RIGHT FRONT AXLE.

USE ITEMS 21, 22, & 23 TO CLAMP ITEM 24 TO AXLE.

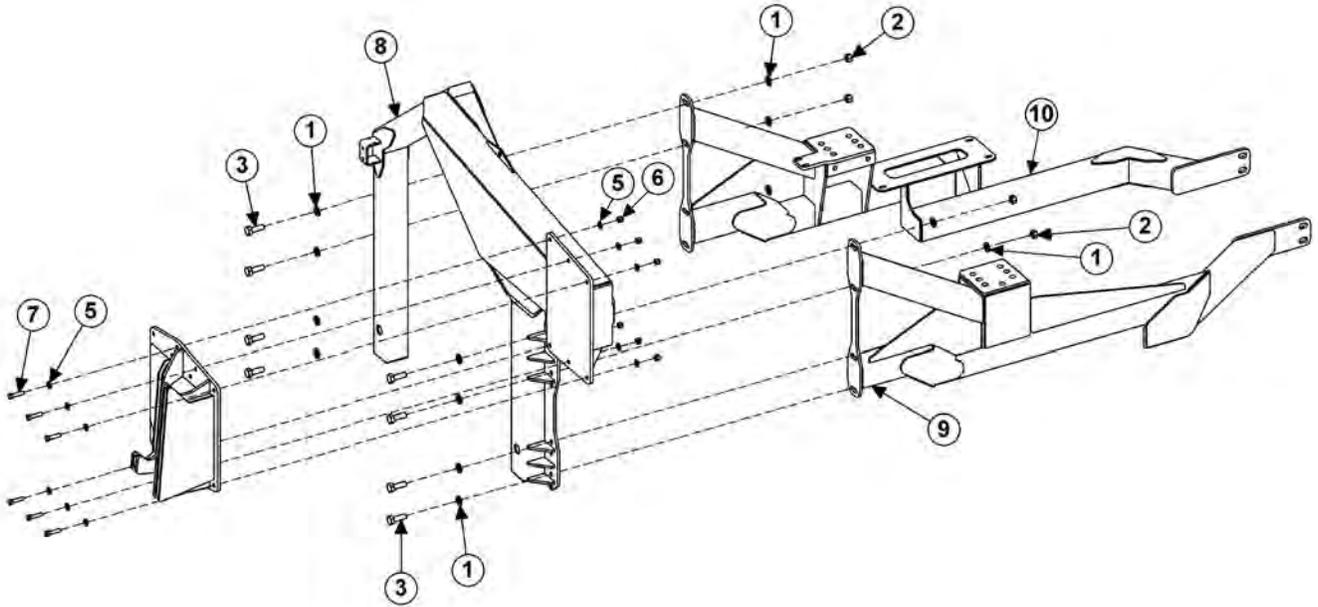
AFTER INSTALLATION, ARTICULATE FRONT AXLE FROM STOP TO STOP AND EXTEND AND RETRACT CYLINDER FULLY TO ENSURE A PROPER FIT.

AXLE STABILIZER - VERSION TWO

Continued...

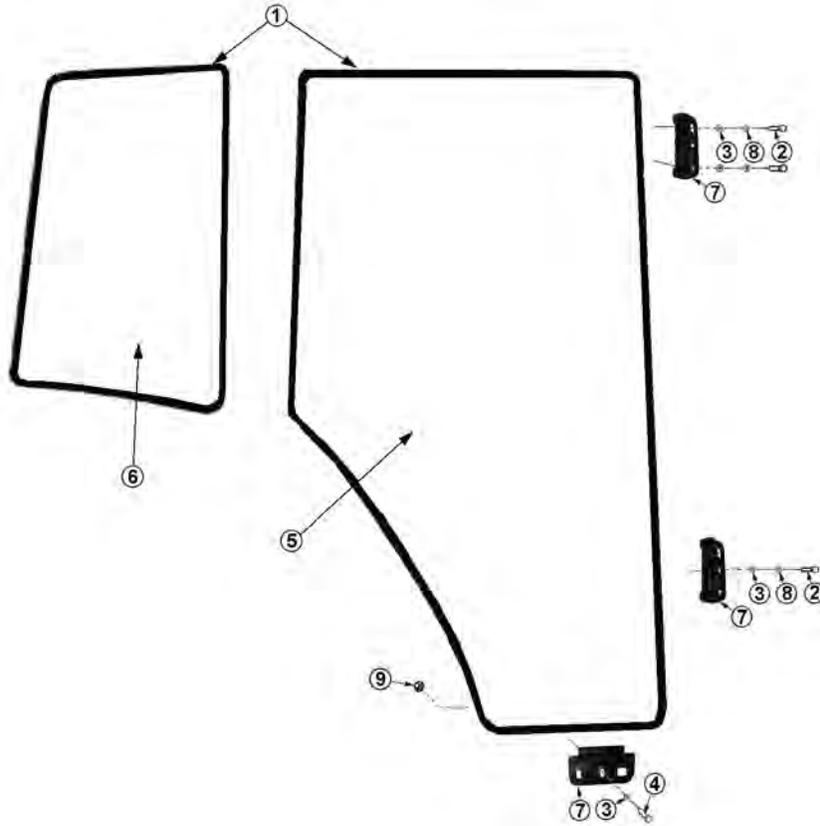
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	BOOM CYLINDER *REFER TO COMMON SECTION
2	06500730	1	HOSE,3/8" X 227"
3	06503048	2	RUN TEE,3/8"MJ X 3/8"FJX X 3/8"MJ
4	-----	-	HOSE *REFER TO LIFT VALVE PAGE
5	-----	-	ADAPTER *REFER TO LIFT VALVE PAGE
6	-----	-	HOSE *REFER TO LIFT VALVE PAGE
7	-----	-	LIFT VALVE *REFER TO LIFT VALVE PAGE
8	-----	-	ACCUMULATOR *REFER TO LIFT VALVE PAGE
9	-----	-	ACCUMULATOR BRKT *REFER TO LIFT VALVE PAGE
10	06500731	1	HOSE,3/8" X 234"
11	-----	-	RUN TEE *REFER TO LIFT VALVE PAGE
12	-----	-	HOSE *REFER TO LIFT VALVE PAGE
13	-----	-	ELBOW *REFER TO LIFT VALVE PAGE
14	33880	2	FLATWASHER,3/4",SAE
15	32703	2	CAPSCREW,20MM X 100MM,2.5P
16	33785	1	CYLINDER,1-1/2" X 8"
17	06503055	2	ELBOW,1/4"MOR X 3/8"MJ
18	06310204	1	LINK,PIVOT,STABILIZER
19	RD1032	3	LYNCH PIN
20	33984	2	PIN,3/4" X 2-7/16"
21	06420164	2	U-BOLT
22	06533004	4	FLATWASHER,1/2",SAE
23	21700	4	HEX NUT,1/2",UNC
24	06310203	1	MOUNT,AXLE
25	-----	-	CAPSCREW *REFER TO LIFT VALVE PAGE
26	-----	-	FLATWASHER *REFER TO LIFT VALVE PAGE
27	-----	-	CLAMP KIT *REFER TO LIFT VALVE PAGE
28	-----	-	BRACKET *REFER TO LIFT VALVE PAGE
29	34799	1	PIN,3/4" X 2-15/16"
30	06310177	1	STABILIZER,AXLE,CYL MNT

SABER BOOMREST



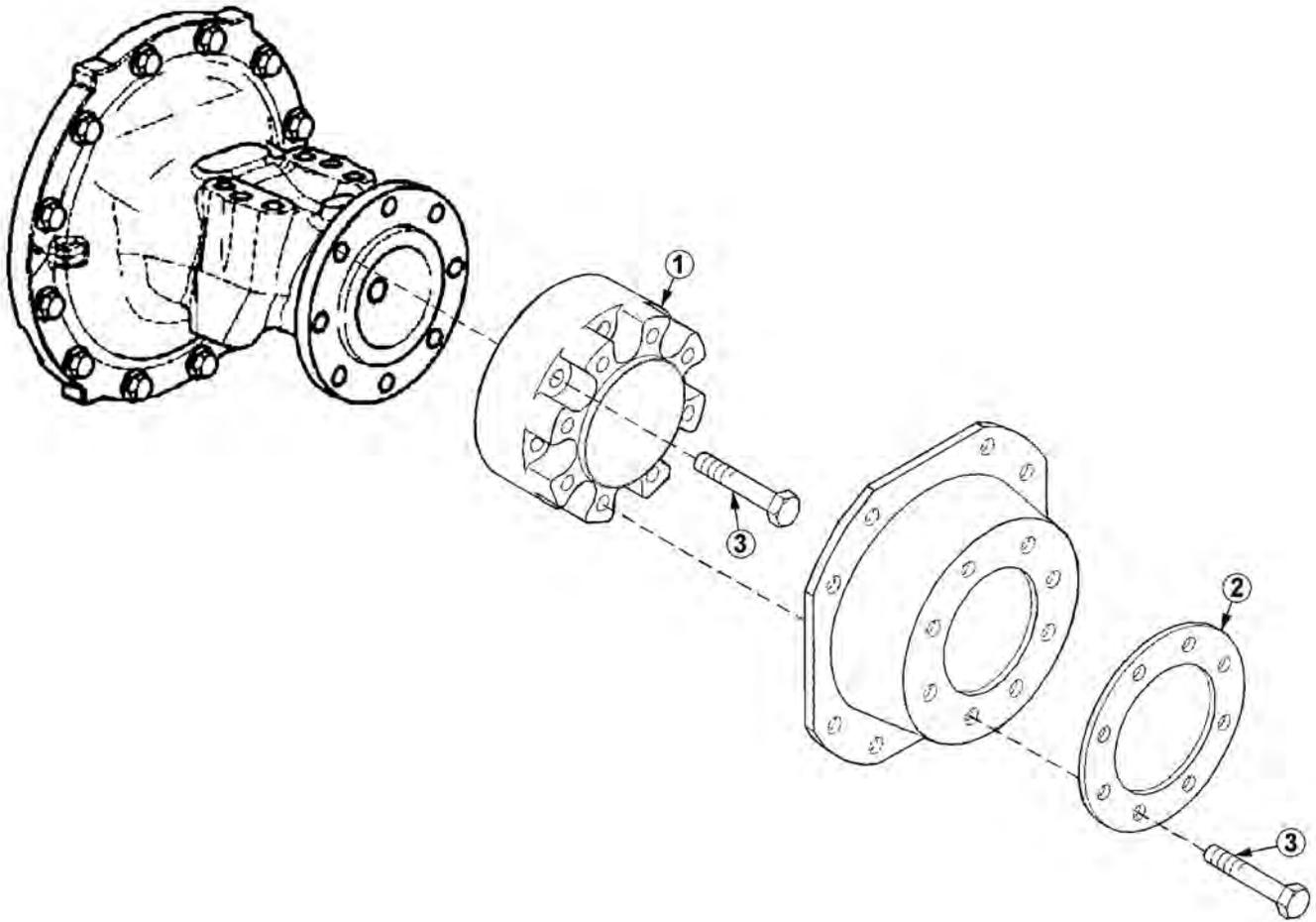
ITEM	PART NO.	QTY.	DESCRIPTION
1	33880	16	FLATWASHER, 3/4" GR8, SAE
2	21825	8	HEX NUT, 3/4" NC
3	06530237	8	CAPSCREW, 3/4" X 2-1/4" NC GR8
4	06310192	1	ADAPTER, BOOMREST, SABER, T4F
5	06533004	12	FLATWASHER, 1/2" GR8, SAE
6	21727	6	NYLOCK NUT, 1/2" NC
7	21733	6	CAPSCREW, 1/2" X 2 NC
8	06310158	1	BOOMREST, SABER, T4
9	06300345	1	AXLE BRACE, RH, JD6145M, T4F, RS
10	06300346	1	AXLE BRACE, LH, JD6145M, T4F, RS

POLYCARBONATE SAFETY WINDOW



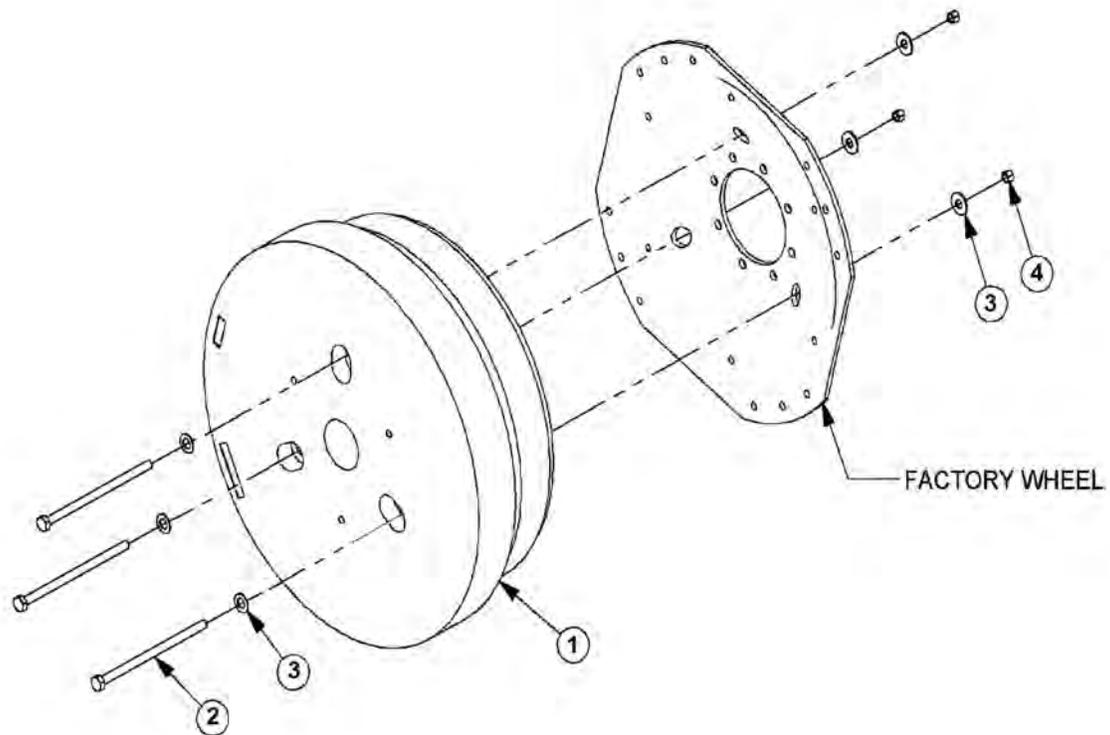
ITEM	PART NO.	QTY.	DESCRIPTION
1	31965	22	TRIM SEAL,3/8" CLIP X 3/4"OD (FEET)
2	27508	3	CAPSCREW,8MM X 20MM,1.25P
3	22015	4	FLATWASHER,5/16"
4	21581	1	CAPSCREW,5/16" X 1-1/4",NC
5	06490005	1	POLYCARB,FRMD,DOOR,RH
6	06490027	1	POLYCARB,FRMD,REAR,RH
7	06520040	3	BRKT,JD,POLY,RETAIN
8	6T2619	3	LOCKWASHER,8MM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

WHEEL SPACER



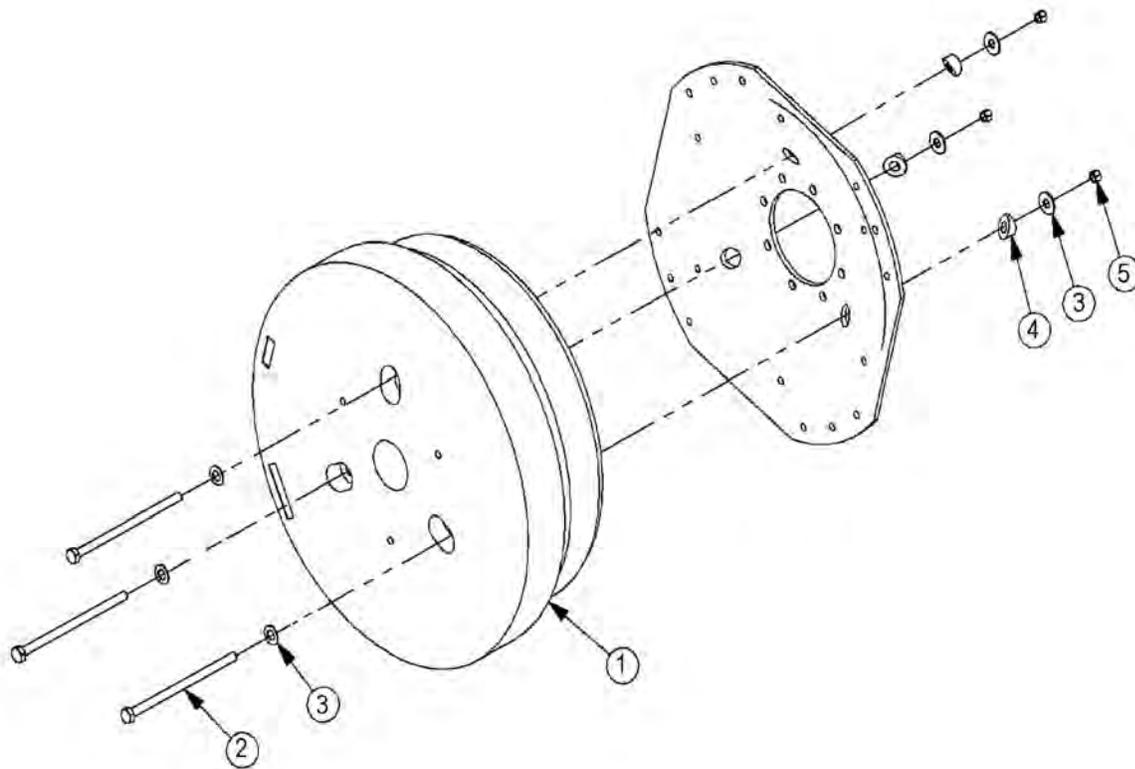
ITEM	PART NO.	QTY.	DESCRIPTION
1	AL156779	1	SPACER, WHEEL, JD, 1.732
2	06400919	1	RING, SPACER, WHEEL, JD
3	6T2548	16	CAPSCREW, 20MM X 60MM

WHEEL WEIGHT - SABER



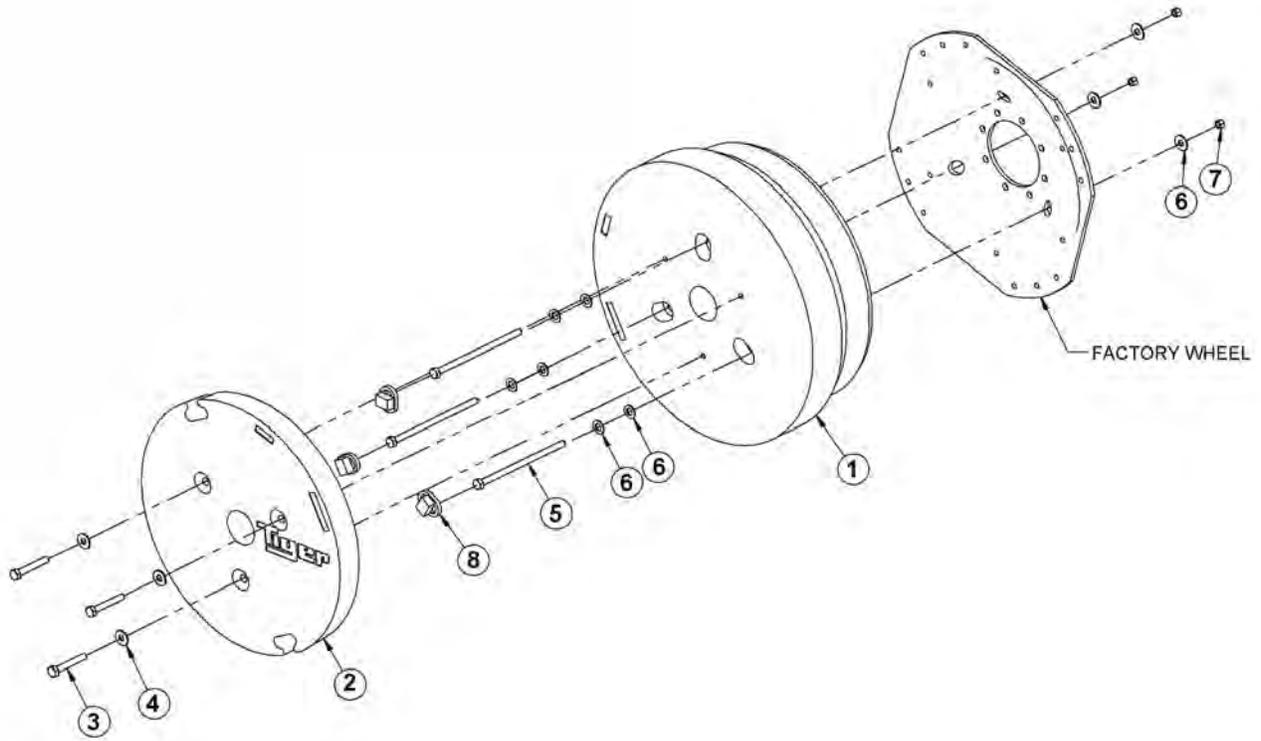
ITEM	PART NO.	QTY.	DESCRIPTION
1	06700108	1	3400# WEIGHT, TAPPED
2	06530227	3	CAPSCREW, 1" X 20",NC
3	06533007	6	FLATWASHER, 1"
4	31581	3	HEX NUT, 1",NC

WHEEL WEIGHT - SABER BAR AXLE



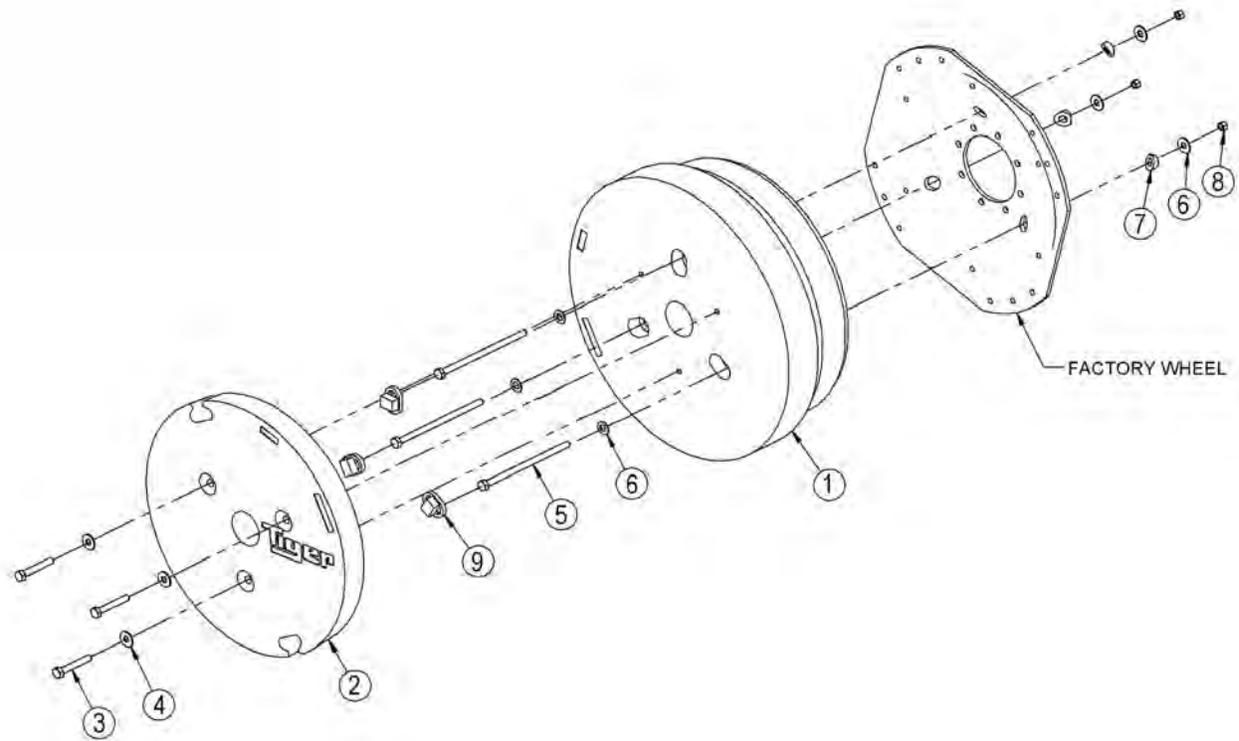
ITEM	PART NO.	QTY.	DESCRIPTION
1	06700108	1	3400# WEIGHT, TAPPED
2	06530227	3	CAPSCREW, 1" X 20",NC
3	06533007	6	FLATWASHER, 1"
4	06430183	3	SPACER, WHEEL WEIGHT, BAR AXLE
5	31581	3	HEX NUT, 1",NC

WHEEL WEIGHT - SABER XB



ITEM	PART NO.	QTY.	DESCRIPTION
1	06700108	1	3400# WEIGHT,TAPPED
2	32518	1	850# WEIGHT
3	21842	3	CAPSCREW,3/4" X 5",NC
4	33626	3	FLATWASHER,3/4",USS
5	06530227	3	CAPSCREW,1" X 19-1/2",NC
6	06533007	6	FLATWASHER,1"
7	31581	3	HEX NUT, 1",NC
8	06370223	3	SPACER,WHEEL WEIGHT

WHEEL WEIGHT - SABER XB BAR AXLE



ITEM	PART NO.	QTY.	DESCRIPTION
1	06700108	1	3400# WEIGHT,TAPPED
2	32518	1	850# WEIGHT
3	21842	3	CAPSCREW,3/4" X 5",NC
4	33626	3	FLATWASHER,3/4",USS
5	06530227	3	CAPSCREW,1" X 20",NC
6	06533007	6	FLATWASHER,1"
7	06430183	3	SPACER, BAR AXLE
8	31581	3	HEX NUT, 1",NC
9	06370223	3	SPACER,WHEEL WEIGHT

COMMON SABER BOOM'H

PARTS SECTION

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P QVGLU	6
RCTVU'QTF GT&P I 'I W&E G	7
DQO 'UY K&G'N'C'UUGO DN[8
S W&E ME QWRNGT U	:
UCDGT'DQO 'C'UUGO DN[32
UCDGT'O D'DQO 'C'UUGO DN[34
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UCDGT'F K'GEV'F T&G'C'UUGO DN[46
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85R 'HNCN'F T&G'C'UUGO DN[4:
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72R 'UCDGT'O D'TQVCT['O QY GT	54
72R 'UCDGT'ZD'TQVCT['O QY GT	56
82R 'UCDGT'TQVCT['O QY GT	58
82R 'TQVCT['MP K&G'CP F 'F KJ 'QRVQP	5:
UCDGT'URR F NG'C'UUGO DN[62
UCDGT'ZD' '82R 'URR F NG'C'UU[64
5R 'Z'39/34R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	66
6R 'Z'37R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	67
6/34R 'Z'48/34R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	68
7R 'Z'47R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	69
RWO R'CP F 'I T&N'I WCTF 'QRVQP U	6:
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HTQP V'J [F T C W&E 'RWO R	72
72R 'CP F '85R 'HNCN'O QVQT'DTGCMF QY P	74
72R 'HNCN'F K'GEV'F T&G'O QVQT'DTGCMF QY P	76
72R 'CP F '82R 'TQVCT['O QVQT'DTGCMF QY P	78
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7'URQQN'GNGEVTQP K&'XCXNG/'287242; 8	86
DTCMG'XCXNG'C'UUGO DN[88
DTCMG'XCXNG'J [F T C W&E 'UEJ GO C V&E	89
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O CP WCN+N&H'XCXNG'UY K&EJ 'DQZ	8;
O CP WCN+N&H'XCXNG'UEJ GO C V&E	92

COMMON SABER

PART NAME INDEX

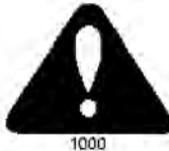
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GNGEVTQPÆ'NKH'XCNXG'UEJ GO CVÆ	94
NGHV'J CPF 'LQ[UVÆM'UY K/EJ DQZ'UEJ GO CVÆ	95
VTQWDNGUJ QQVÆI	96
VTQWDNGUJ QQVÆI '/'EQP VÆ WGF	97
J [F'TCWNÆ'VTQWDNGUJ QQVÆI 'I WÆ C	98
GNGEVTÆCN'VTQWDNGUJ QQVÆI 'I WÆ G	99
PQVGU'3	9:
ENGCP 'E'WVGT'J GCF	9;
ENGCP 'E'WVGT'CUUGO DN[: 2
ENGCP 'E'WVGT'QRGT'CVQP	: 3
ENGCP 'E'WVGT'QRGT'CVQP '/'EQP VÆ WGF	: 4
ENGCP 'E'WVGT'O CÆ VGP CPE G	: 5
ENGCP 'E'WVGT'DNCF G'CPF 'VGGVJ 'RCTVU	: 6
E'CTDÆ G'VÆ'TGRNCEGO GP V	: 7
PQVGU'4	: 8
HKT'G'UWRRTGUIQP 'U[UVGO	: 9
HKT'G'UWRRTGUIQP '5/RQÆ V'O QWP V	::
HKT'G'UWRRTGUIQP 'HTQP V'O QWP V	: 2
HKT'G'UWRRTGUIQP 'U[UVGO 'GNGEVTÆCN'UEJ GO CVÆ	: 4
Y GVEW	: 5
Y GVEW'72'I CNNQP 'VCP M/'5RP V'O QWP V	: 6
Y GVEW'322'QT'372'I CNNQP 'VCP M/'5RP V'O QWP V	: 7
Y GVEW'5RP V'RNWO DÆI '/'72Æ 'O QY GTU	: 8
Y GVEW'5RP V'RNWO DÆI '/'NCTI G'O QY GTU	: :
Y GVEW'HTQP V'RNWO DÆI '/'72Æ 'O QY GTU	322
Y GVEW'HTQP V'RNWO DÆI '/'NCTI GT'O QY GTU	324
Y GVEW'72Æ 'URTC[GT'J GCF 'CUUGO DN[326
Y GVEW'82Æ 'URTC[GT'J GCF 'CUUGO DN[328
Y GVEW'ECDNGU	32:

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.

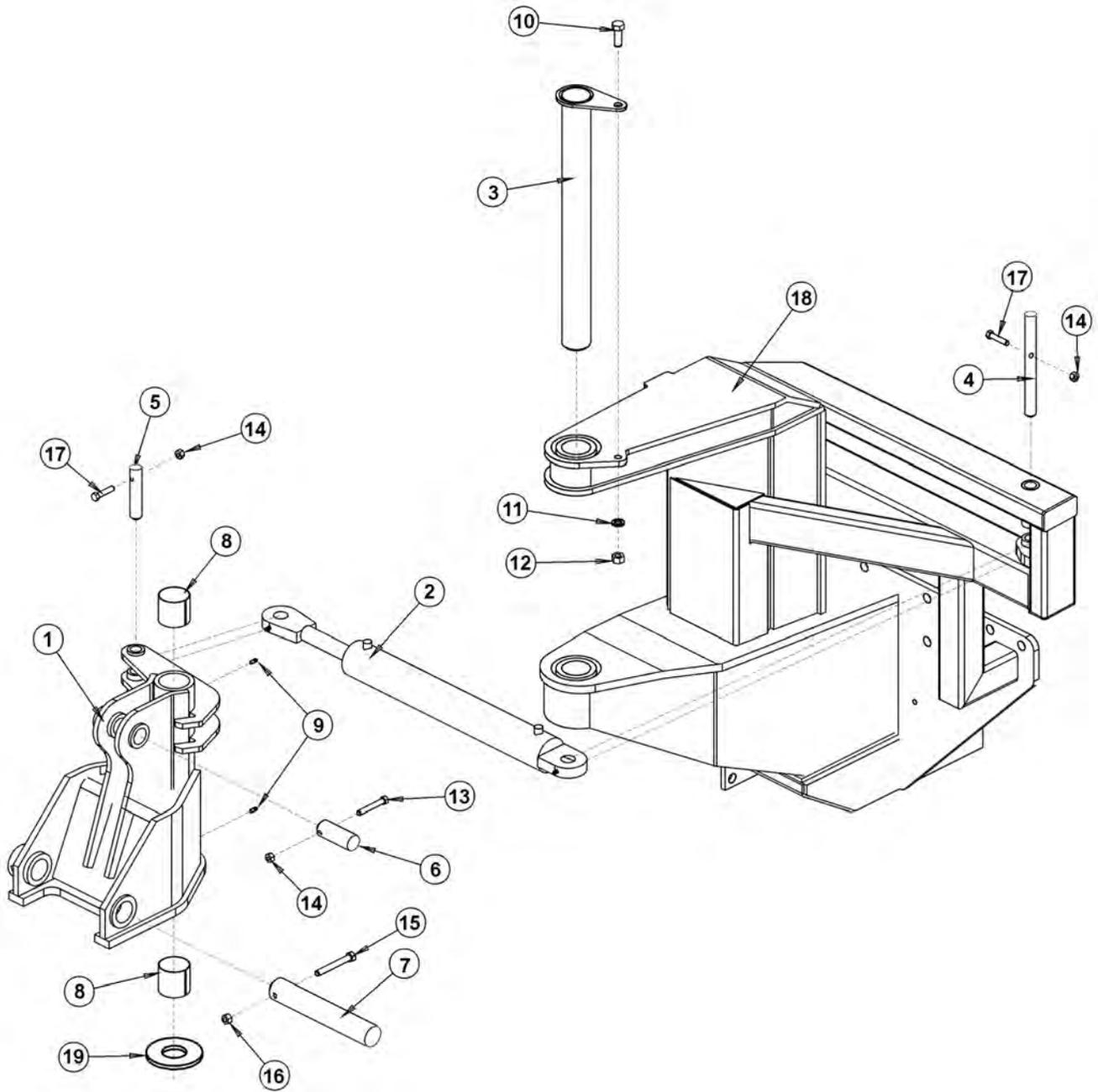
Direct any questions regarding parts to:

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

NOTES

NOTES

BOOM SWIVEL ASSEMBLY

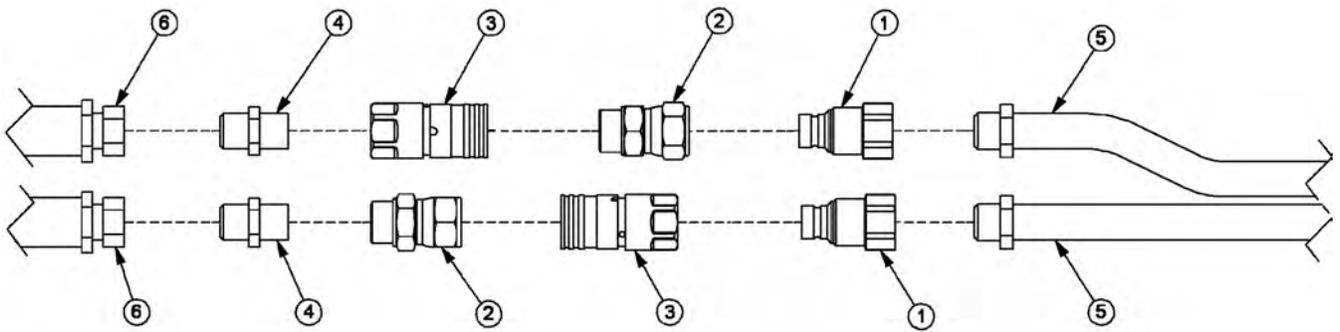


BOOM SWIVEL ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	32742	1	SWIVEL W/BUSHINGS,BOOM,SABER
1	32376	1	SWIVEL,BOOM,SABER,W/O BUSHING
2	06501029	1	CYLINDER,3 X 13.88
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

QUICK COUPLERS



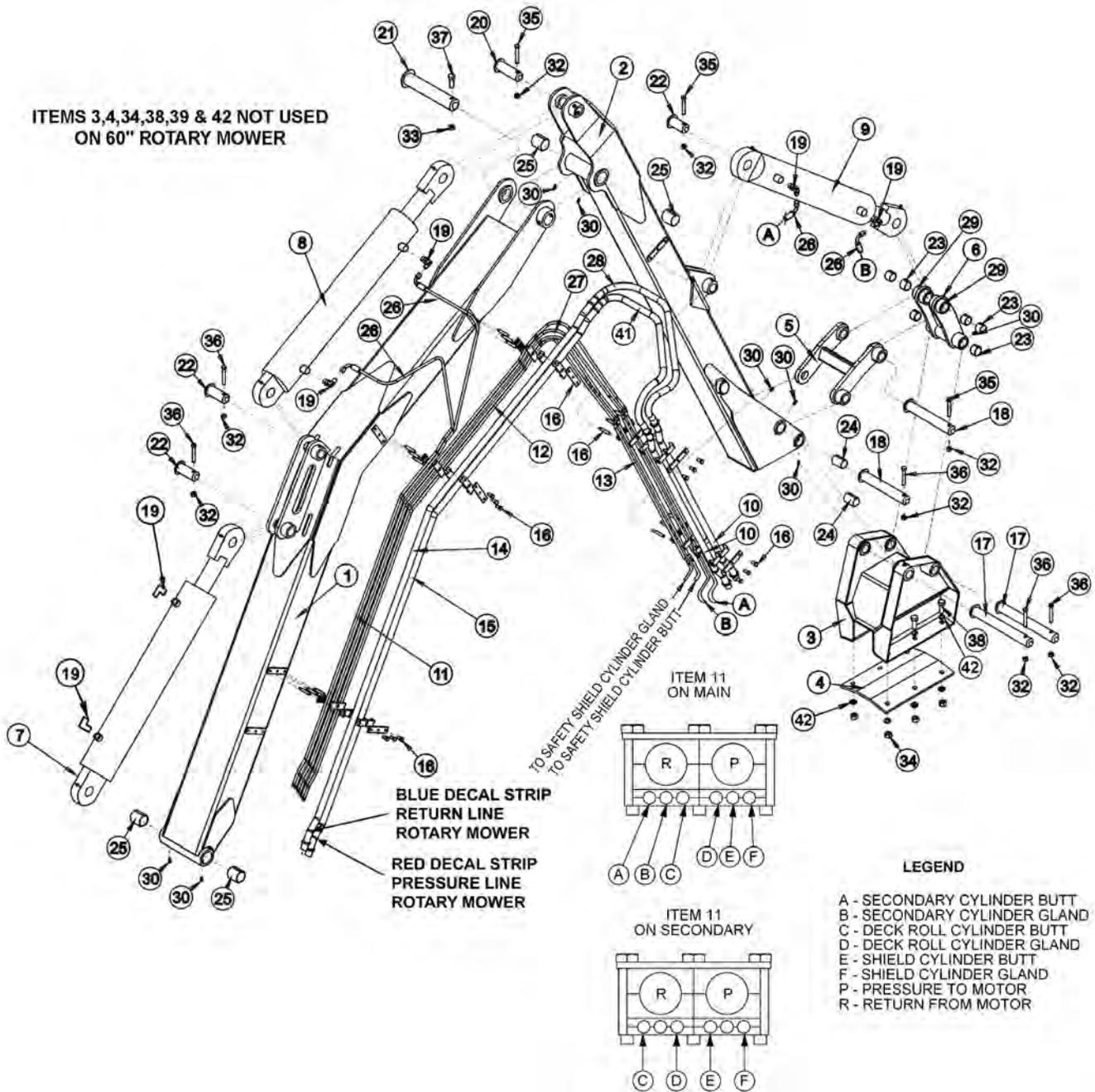
QUICK COUPLERS

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	06310164	1	SECONDARY BOOM, SBR T4
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 T4

SABER BOOM ASSEMBLY

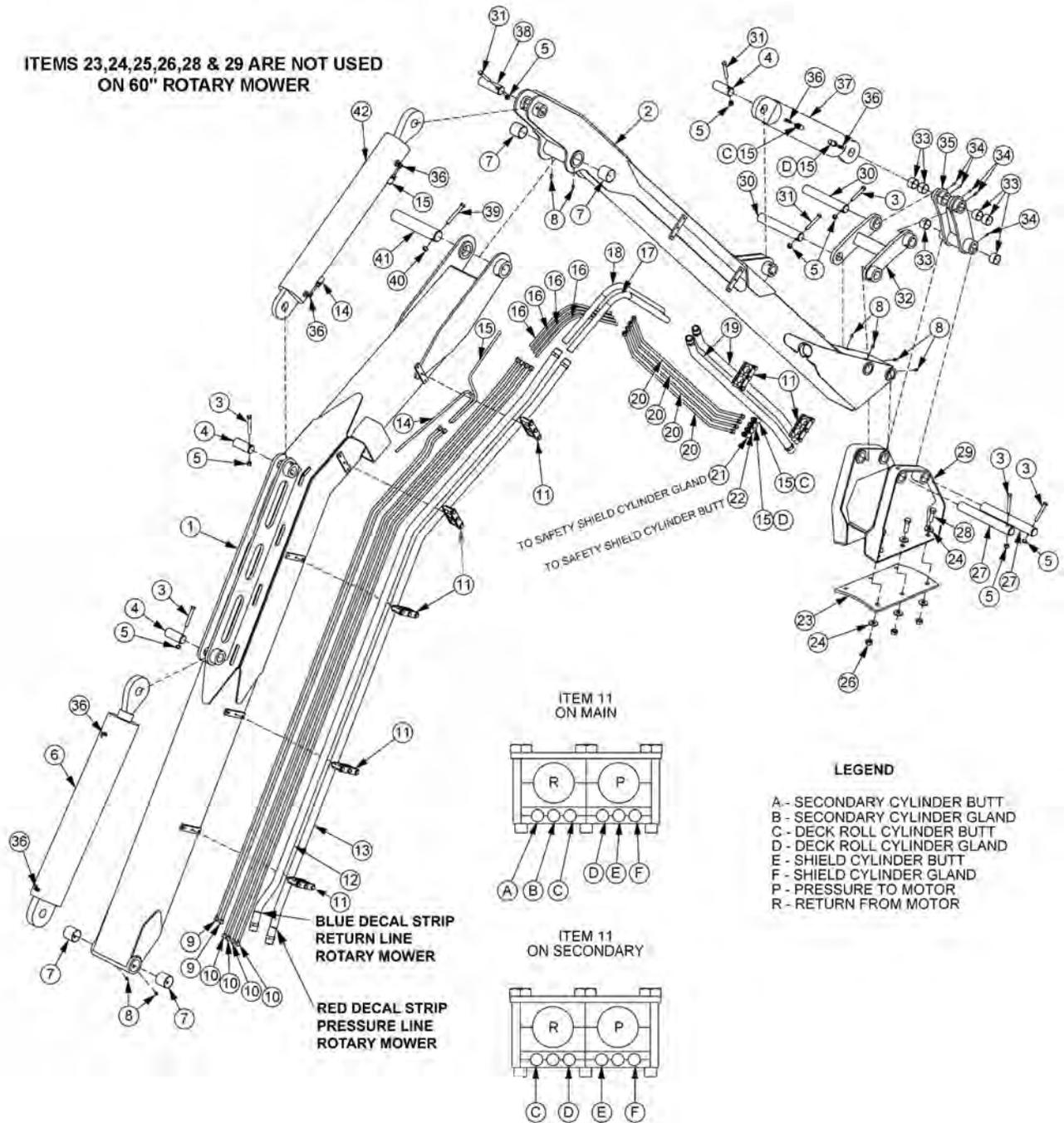
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ITEM	PART NO.	QTY.	DESCRIPTION
7	32363	1	CYLINDER,5" X 25"
8	32364	1	CYLINDER,4-1/2" X 26-1/2"
9	32365	1	CYLINDER,4" X 15"
10	33542	2	PREFORMED TUBE,1"
11	06506062	2	PREFORMED TUBE,3/8"
12	06506063	4	PREFORMED TUBE,3/8"
13	32629	4	PREFORMED TUBE,3/8"
14	06506060	1	PREFORMED TUBE,1" (ROTARY RETURN)
15	06506061	1	PREFORMED TUBE,1" (ROTARY PRESSURE)
16	33215	6	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
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
40	35260	1	HOSE COVER (NOT SHOWN)
41	33543	1	HOSE,1" X 39"
42	25270	12	FLATWASHER,5/8",USS

COMMON SABER T4

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	06310165	1	BOOM,MB,SECONDARY,SABER MB, T4
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 T4

SABER MB BOOM ASSEMBLY

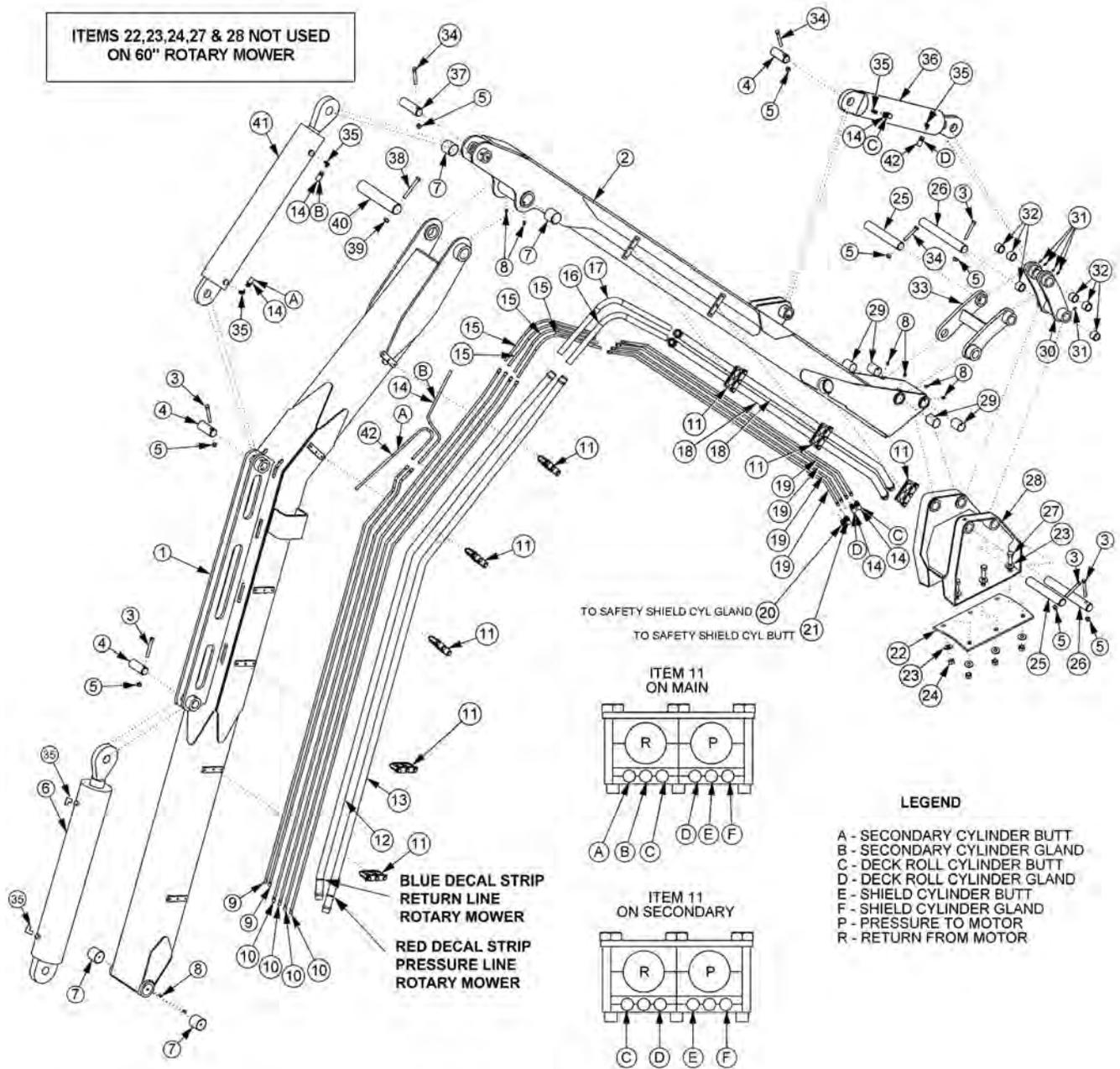
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ITEM	PART NO.	QTY.	DESCRIPTION
7	32362	4	BEARING,DX,2" X 2" LONG
8	6T3211	8	GREASE ZERK,1/8" X STR
9	06506050	2	PRFRMD,1,MAIN,SABER MB T4
10	06506051	4	PRFRMD,2,MAIN,SABER MB T4
11	33215	7	TUBE CLAMP KIT
12	06506045	1	PRFRMD,4,MAIN,SABER MB (ROTARY 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	32680	4	HOSE,3/8" X 43"
17	33543	1	HOSE,1" X 39"
18	33544	1	HOSE,1" X 40"
19	33542	2	PRFRMD,2,SEC,SABER
20	32629	4	PRFRMD,1,SEC,SABER
21	06500670	1	HOSE,3/8" X 108"
22	06500366	1	HOSE,3/8" X 98"
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,WELDED,4-1/2" X 26-1/2"

COMMON SABER T4

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	06310166	1	BOOM, LONG, SECONDARY, SABER XB, T4
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"
7	32362	4	BEARING, DX, 2" X 2" LONG
8	6T3211	8	GREASE ZERK, 1/8" X STR

COMMON SABER T4

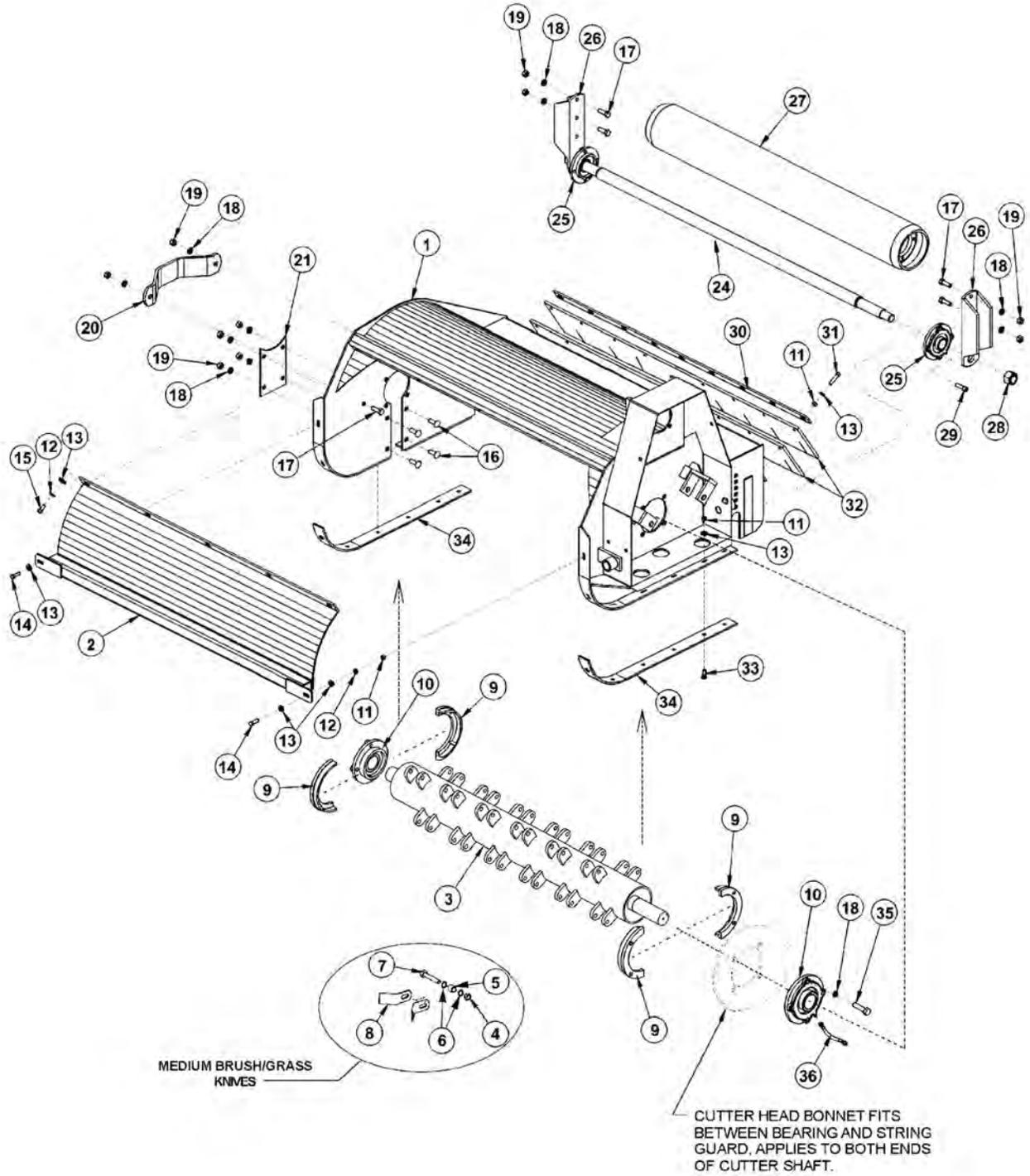
SABER XB BOOM ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
9	06506042	2	PRFRMD,1,MAIN,SABER XB
10	06506043	4	PRFRMD,2,MAIN,SABER XB
11	33215	8	TUBE CLAMP KIT
12	06506045	1	PRFRMD,4,MAIN,SABER XB (ROTARY RETURN)
13	06506044	1	PRFRMD,3,MAIN,SABER XB (ROTARY PRESSURE)
14	32818	3	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,WELDED,4-1/2" X 26-1/2"
42	06500488	1	HOSE, 3/8" X 39"

COMMON SABER T4

50IN FLAIL ASSEMBLY

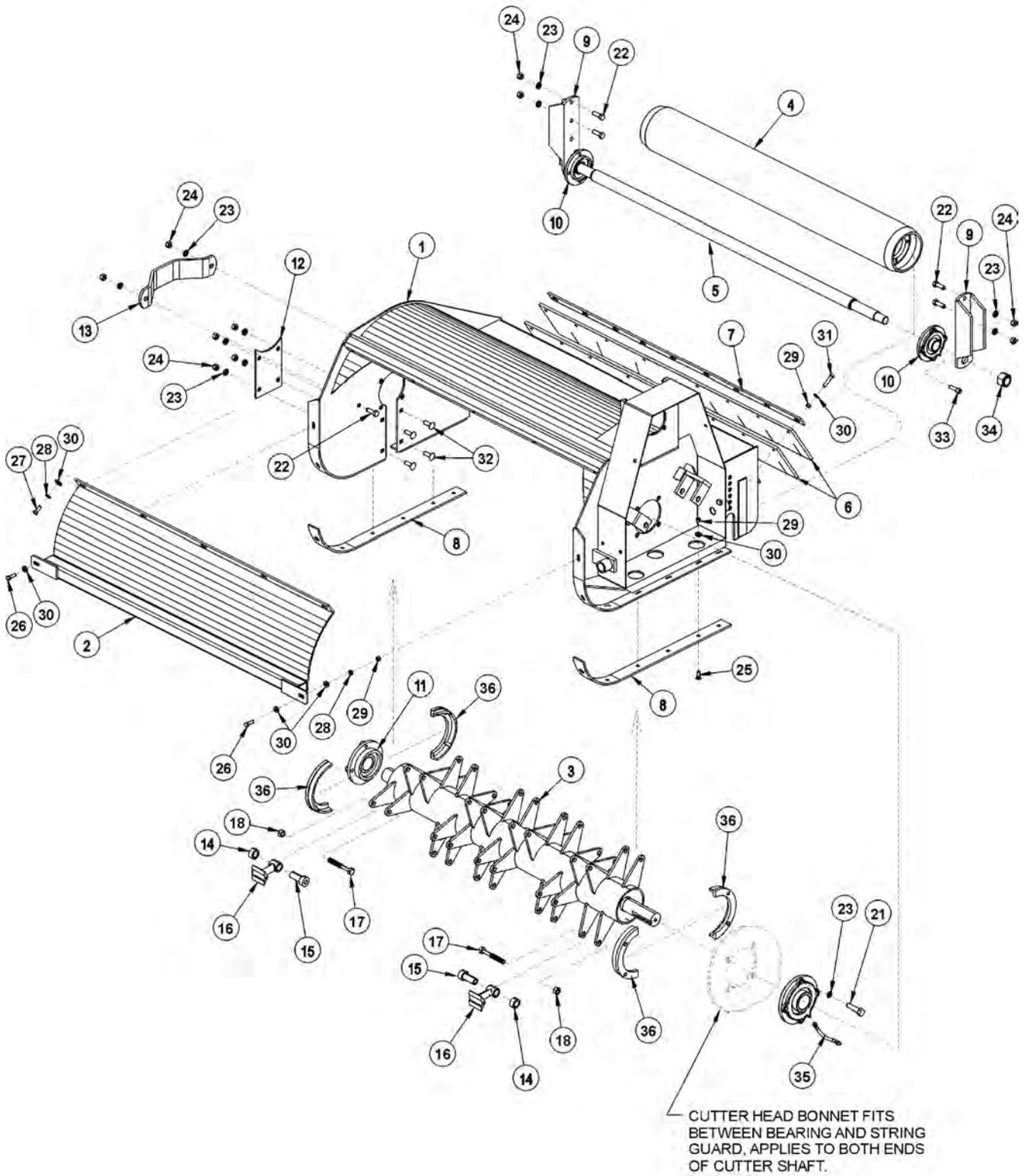


50IN FLAIL ASSEMBLY

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

50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES

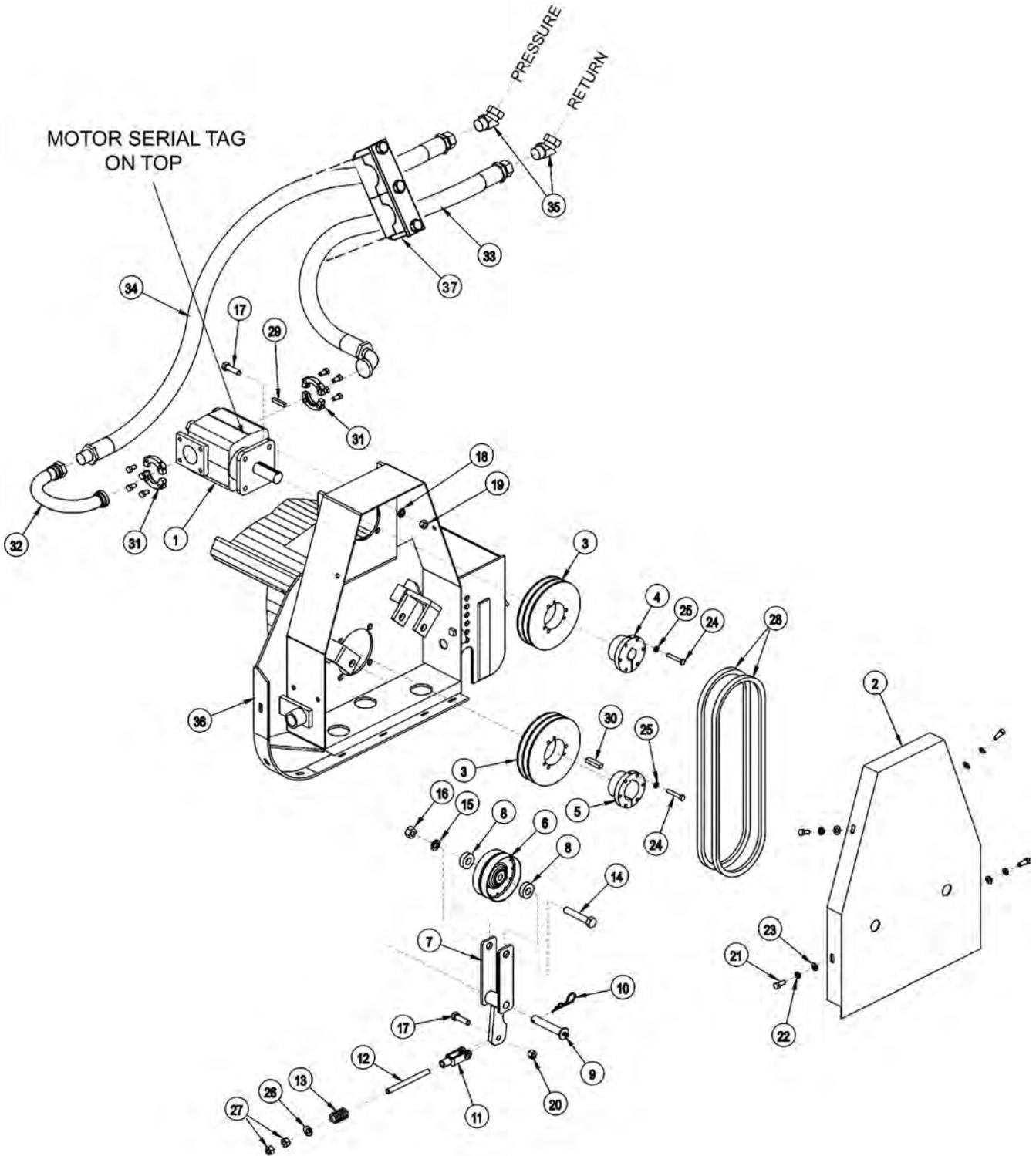


50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES

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)

50IN FLAIL DRIVE ASSEMBLY



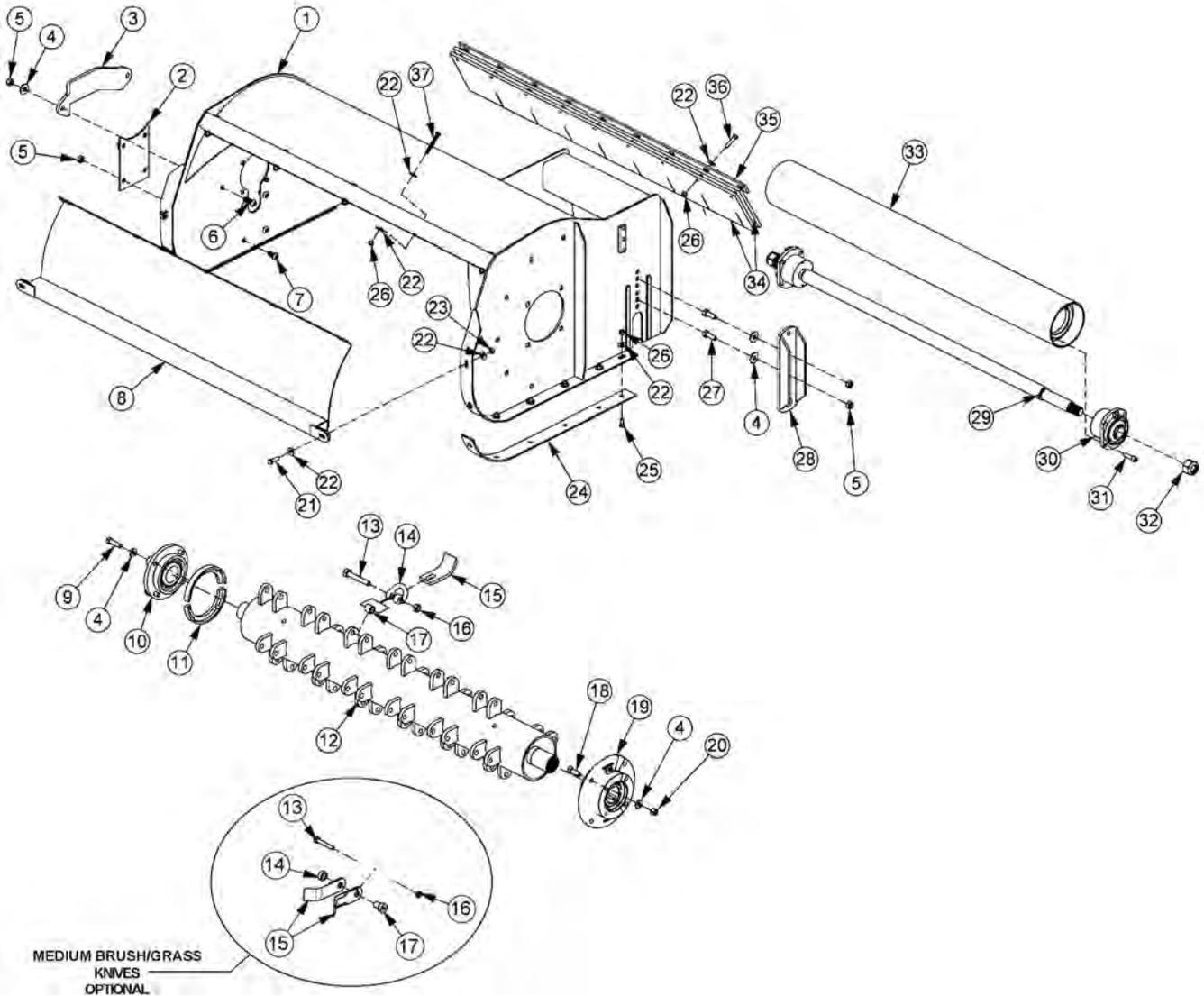
50IN FLAIL DRIVE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	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	06500728	1	HOSE,1 X 103 (RETURN)
34	06500796	1	HOSE,1 X 111 (PRESSURE)
35	24724	2	SWIVEL FITTING
36	-----	-	CUTTER HEAD
37	06505130	1	CLAMP,HOSE

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)

SABER DIRECT DRIVE FLAIL ASSY

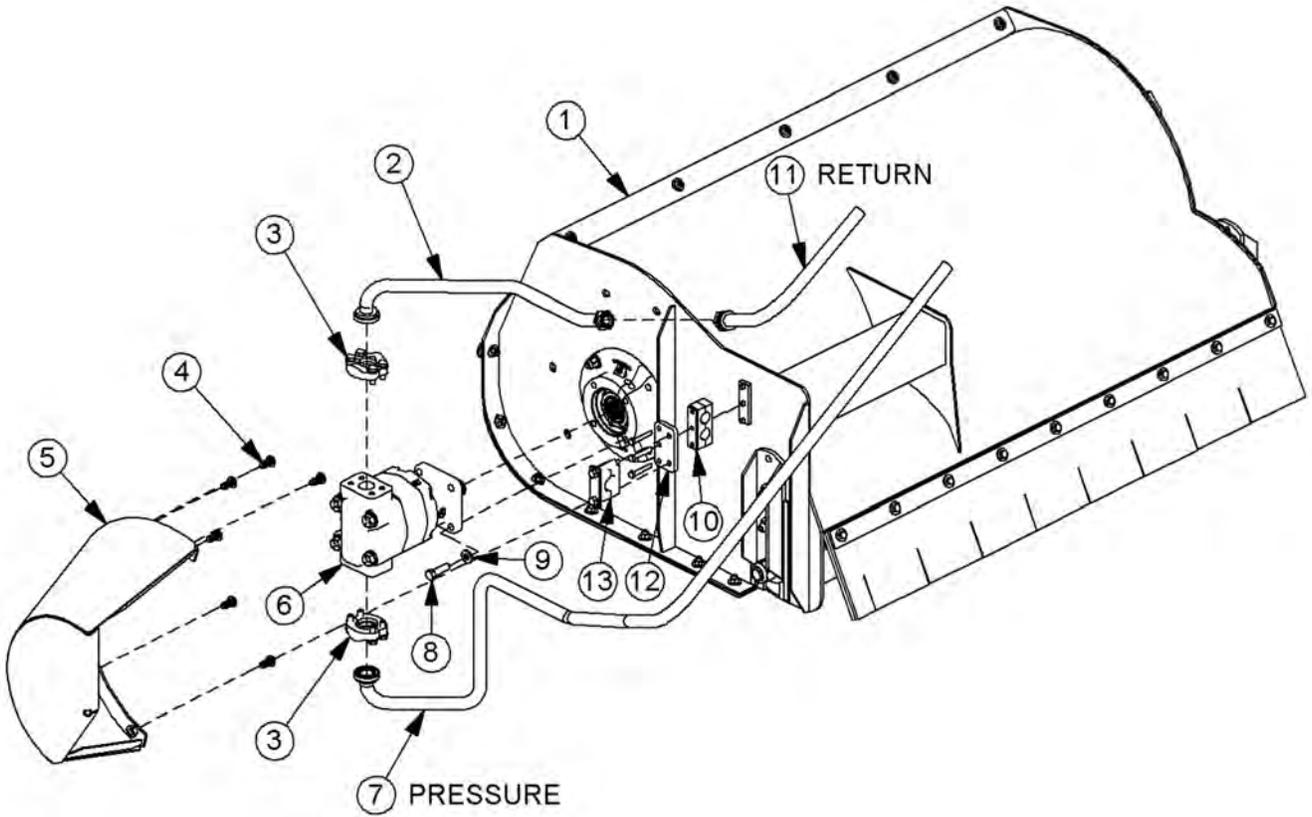
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ITEM	PART NO.	QTY.	DESCRIPTION
1	06320112	1	BONNET
2	TF3007A	1	COVER PLATE
3	06410794	1	GUARD
4	06533006	14	FLATWASHER,1/2",GR 9
5	21727	10	NYLOCK NUT,1/2",NC
6	06530404	2	CAPSCREW,SKT/BUT HD,1/2" X 1-1/2",NC
7	06530401	4	CAPSCREW,SKT/BUT HD,1/2" X 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)
---	06420183	24	SPACER (MEDIUM BRUSH)
15	34780	24	KNIFE (LIGHT BRUSH)
---	06521007	48	KNIFE (MEDIUM BRUSH)
16	6T2419	24	HEX NUT,9/16",STOVER
17	06420182	24	BUSHING
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	21732	4	CAPSCREW,1/2" X 1-3/4",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 T4

SABER DIRECT DRIVE ASSEMBLY

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

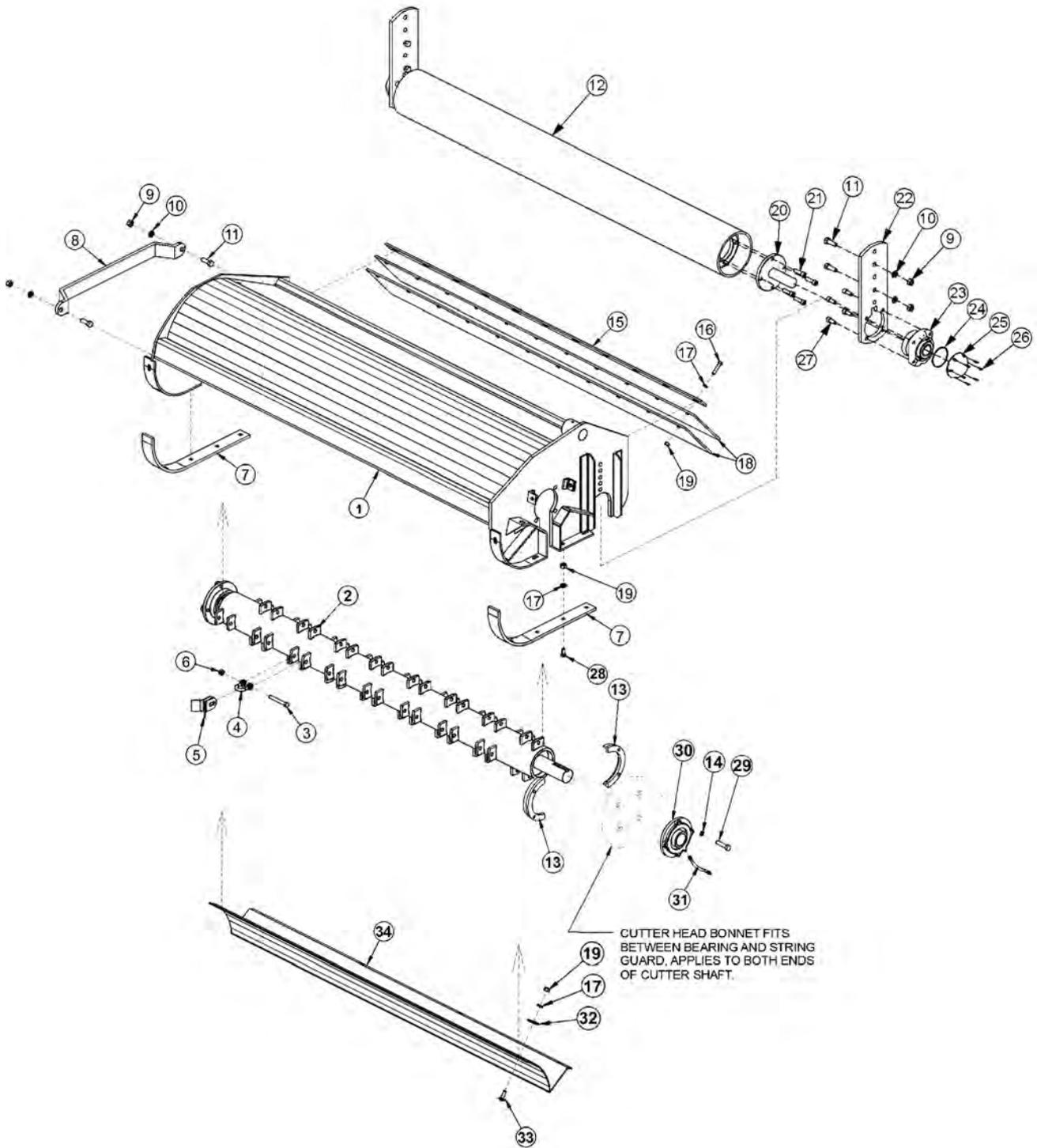


SABER DIRECT DRIVE ASSEMBLY

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	06530218	4	CAPSCREW,1/2" X 1-3/4",NC,GR9
9	06533006	4	FLATWASHER,1/2",GR9
10	06505014	1	CLAMP KIT
11	06500386	1	HOSE,1" X 52"
12	06401418	1	PLATE,CLAMP
13	06505017	1	CLAMP KIT,HOSE

63IN FLAIL ASSEMBLY



63IN FLAIL ASSEMBLY

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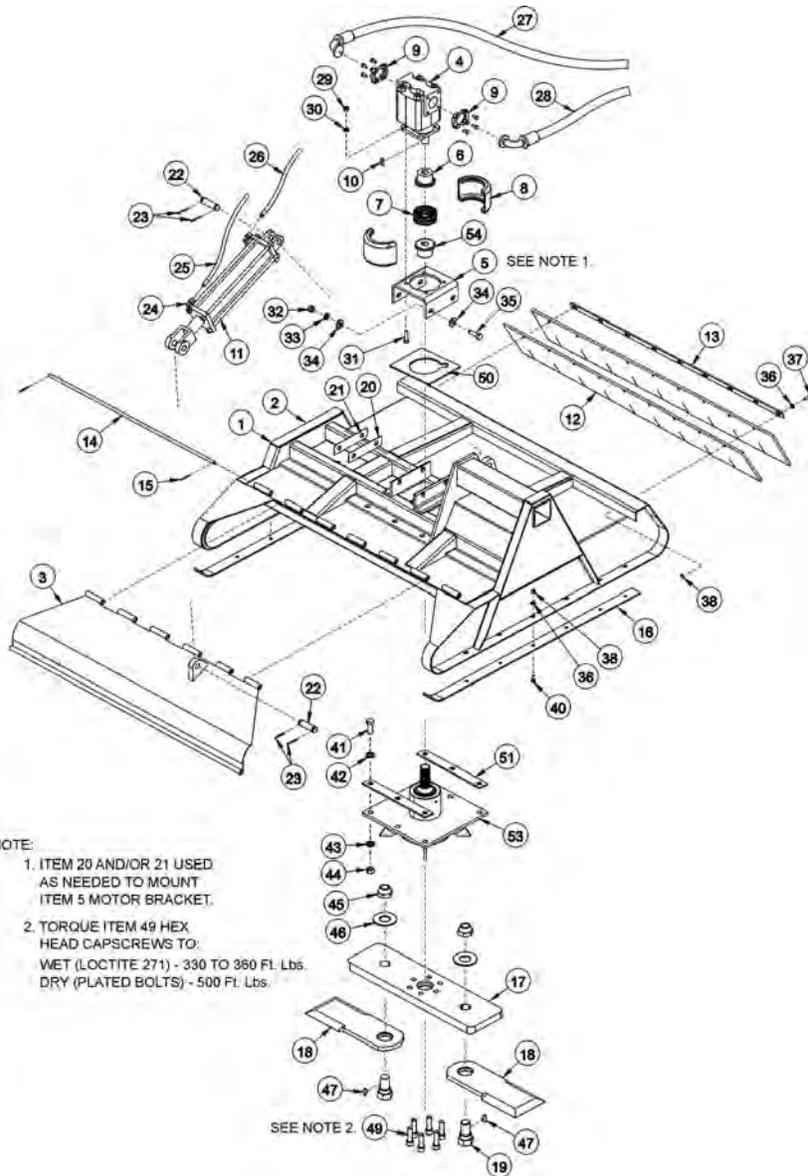
ITEM	PART NO.	QTY.	DESCRIPTION
-----	06200658	1	FLAIL,BOOM,63",GRASS,CPLT ASSY
1	06320110	1	CUTTER HEAD BONNET
2	28743	1	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
-----	28642C	1	CUTTER SHAFT,63",STD
3	TF1021B	36	FLAIL KNIFE MOUNTING BOLT
4	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
5	33713	72	FLAIL KNIFE - 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	06320240	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)

63IN FLAIL DRIVE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	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

50IN SABER ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	36979	-	ROTARY,SABER 50",ASSY
2	32914	1	ROTARY,SABER 50",DECK**Y GNFO GP V'QPN] +
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 T4

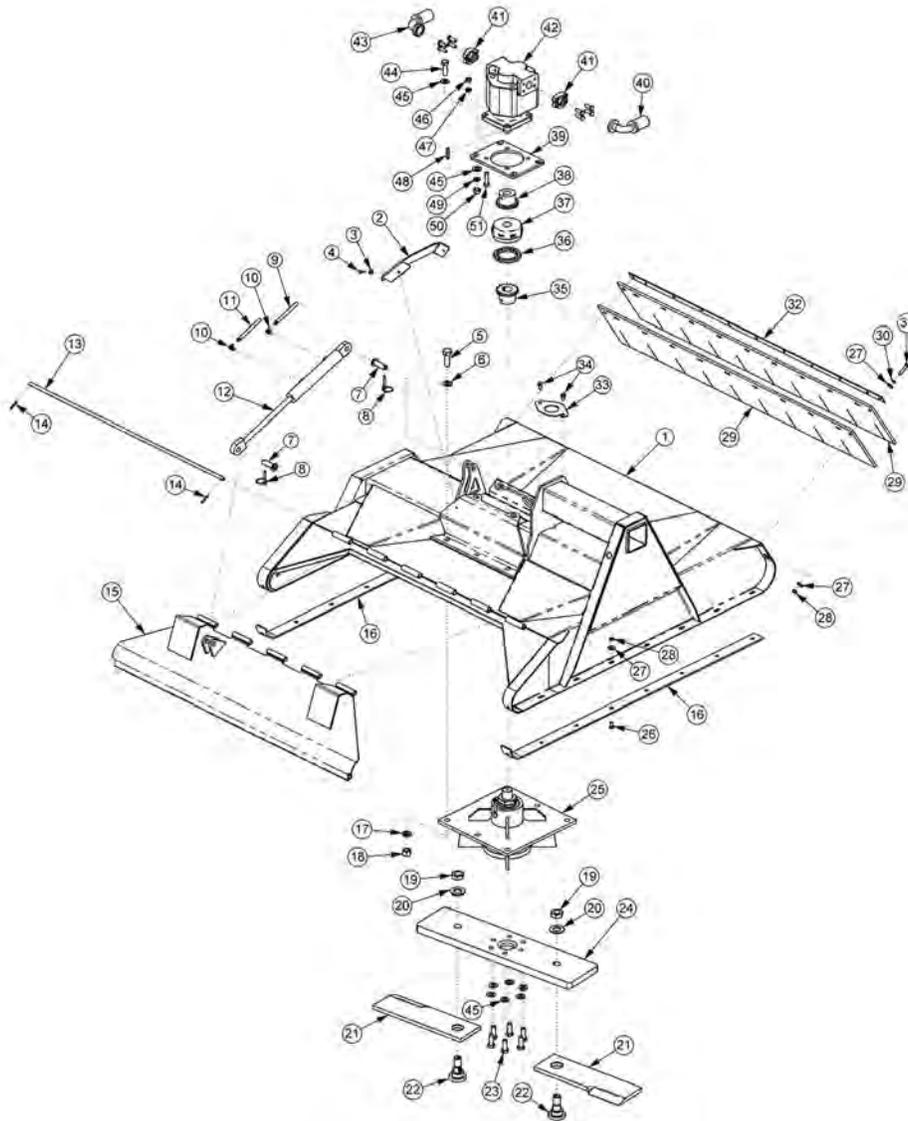
50IN SABER ROTARY MOWER

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 T4

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 T4

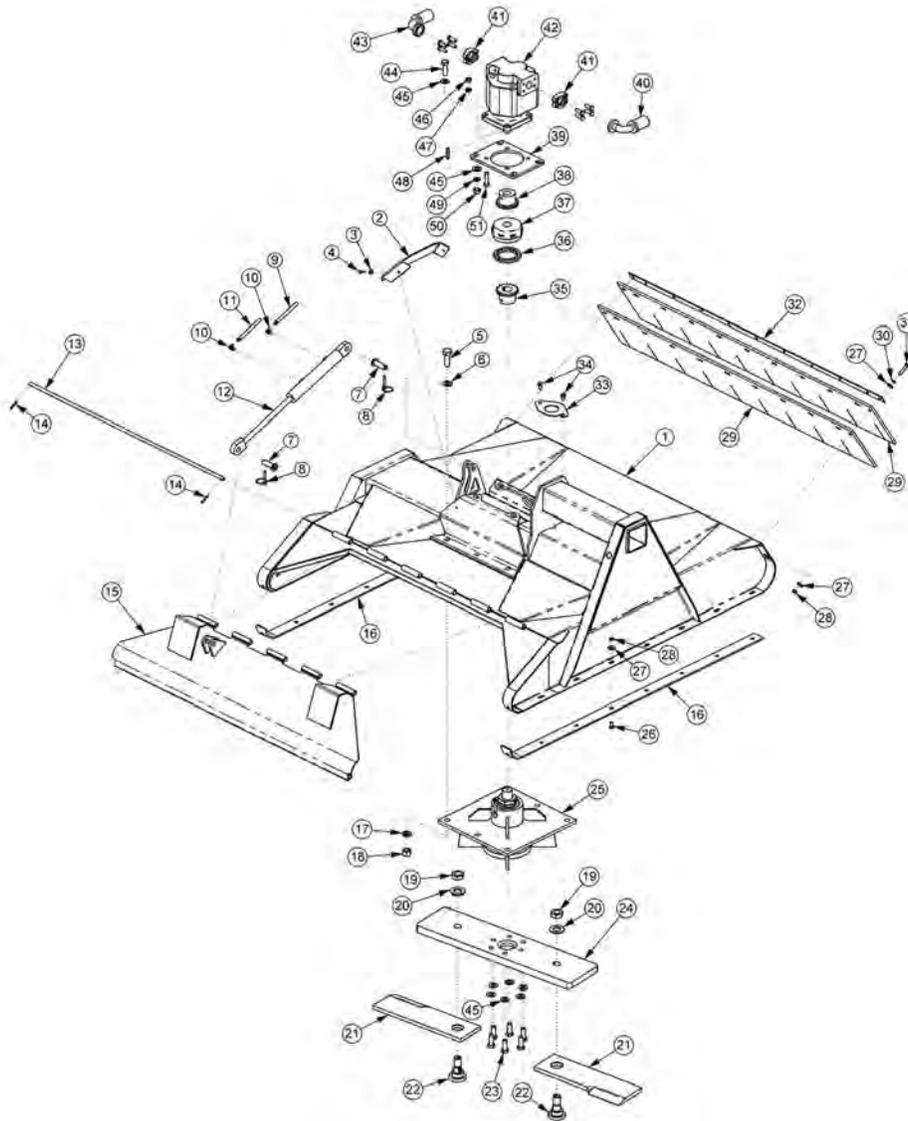
50IN SABER MB ROTARY MOWER

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 T4

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 T4

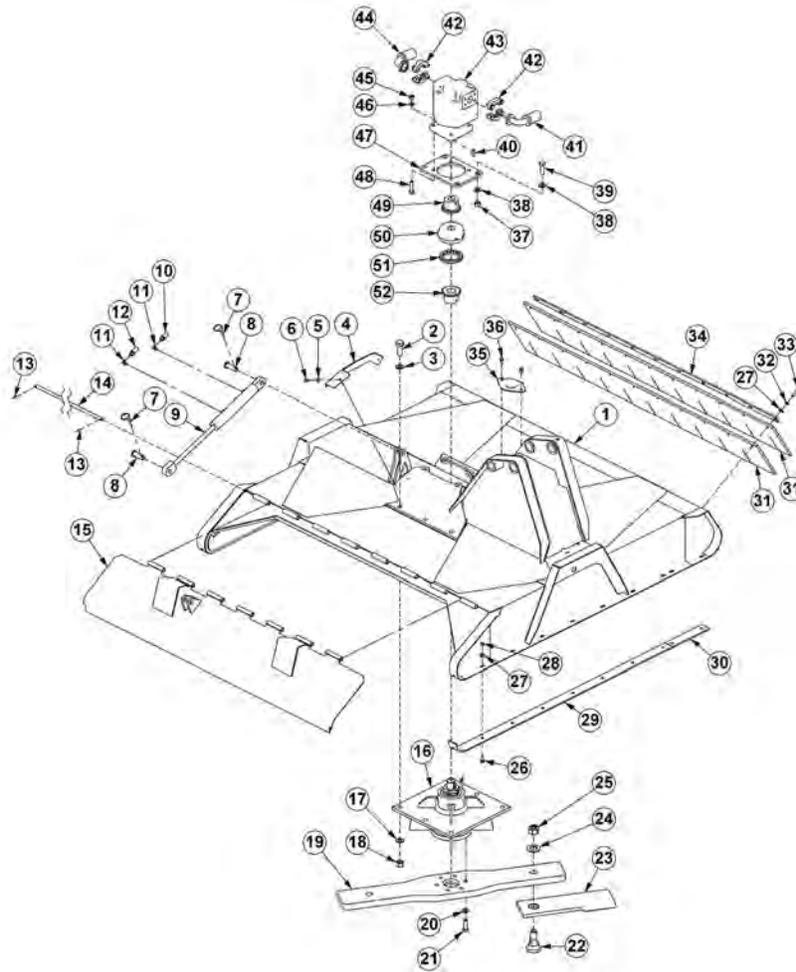
50IN SABER XB ROTARY MOWER

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 T4

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 T4

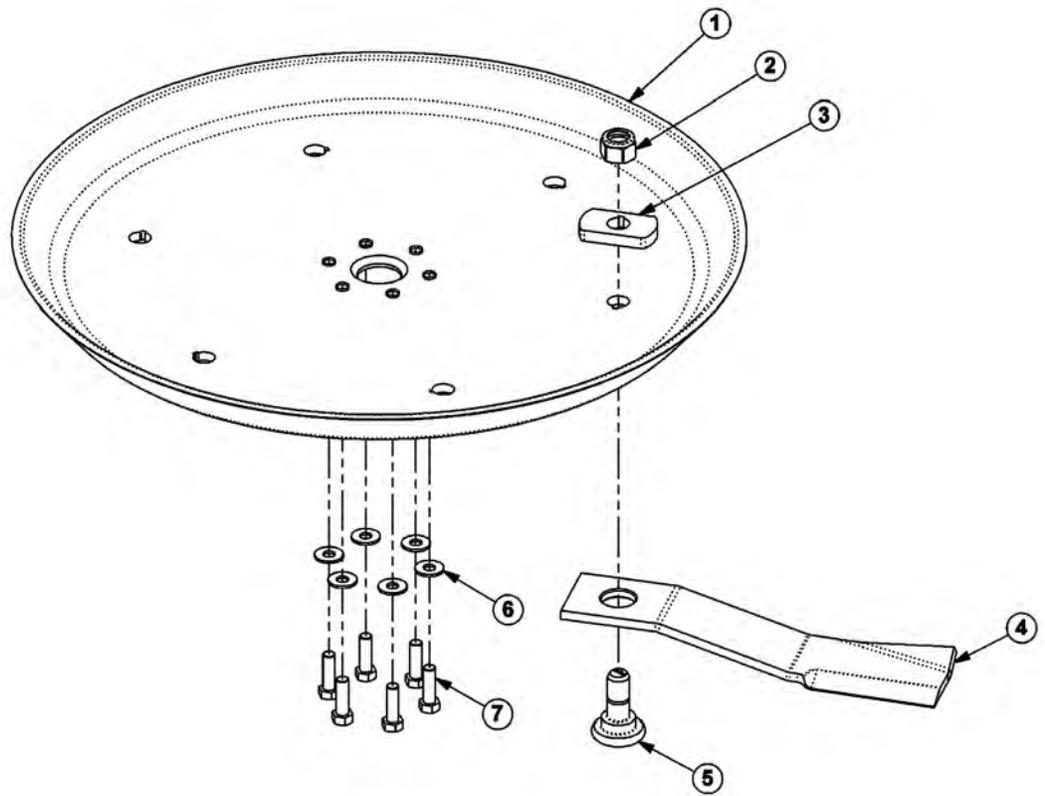
60IN SABER ROTARY MOWER

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 T4

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	34684	2	GRASS KNIFE
5	34497	2	KNIFE MOUNTING BOLT
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)

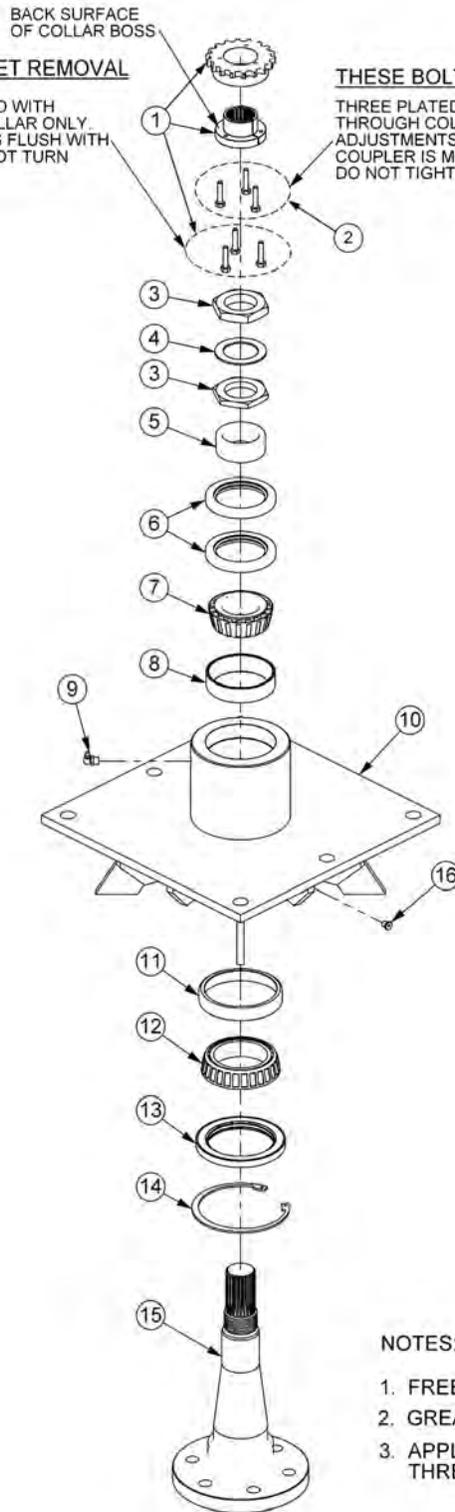
SABER SPINDLE ASSEMBLY

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.

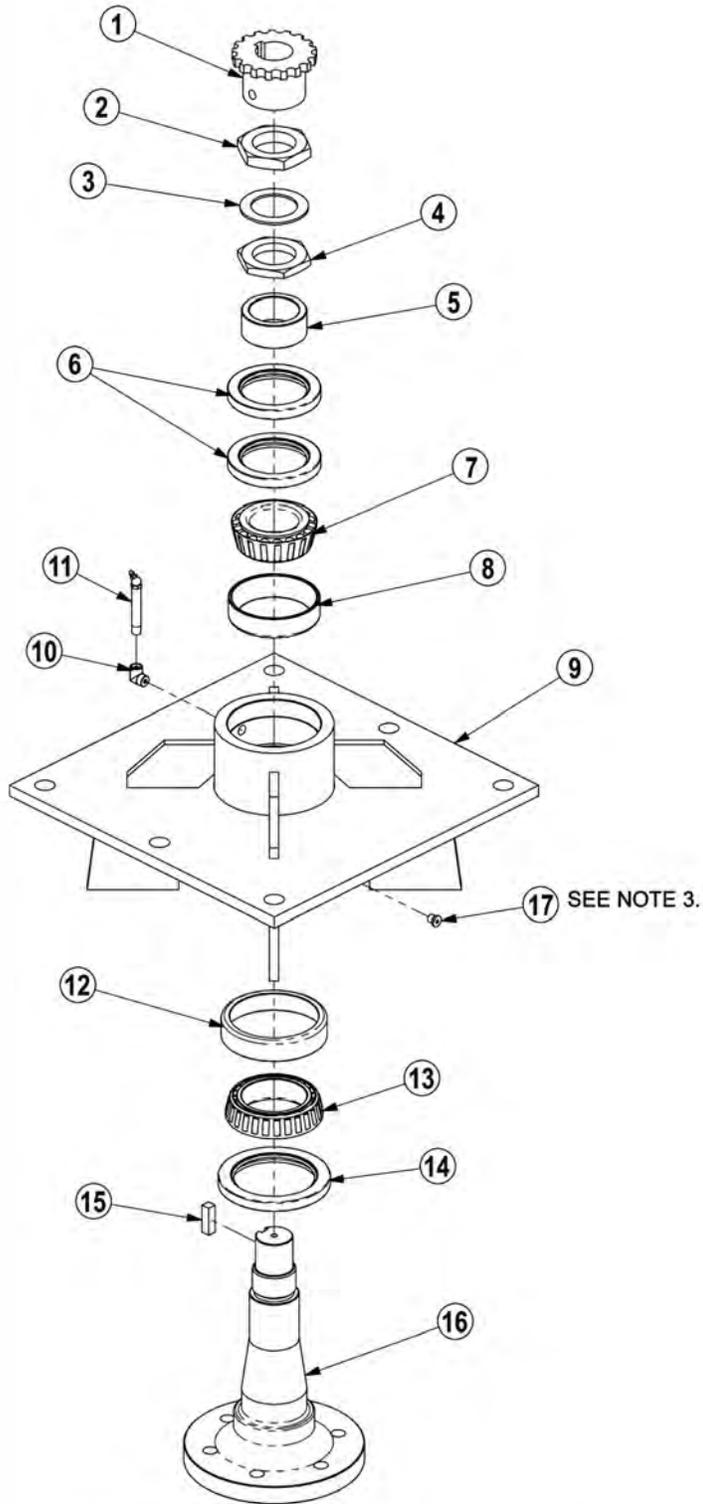
SABER SPINDLE ASSEMBLY

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 T4

SABER XB & 60IN SPINDLE ASSY



NOTES:

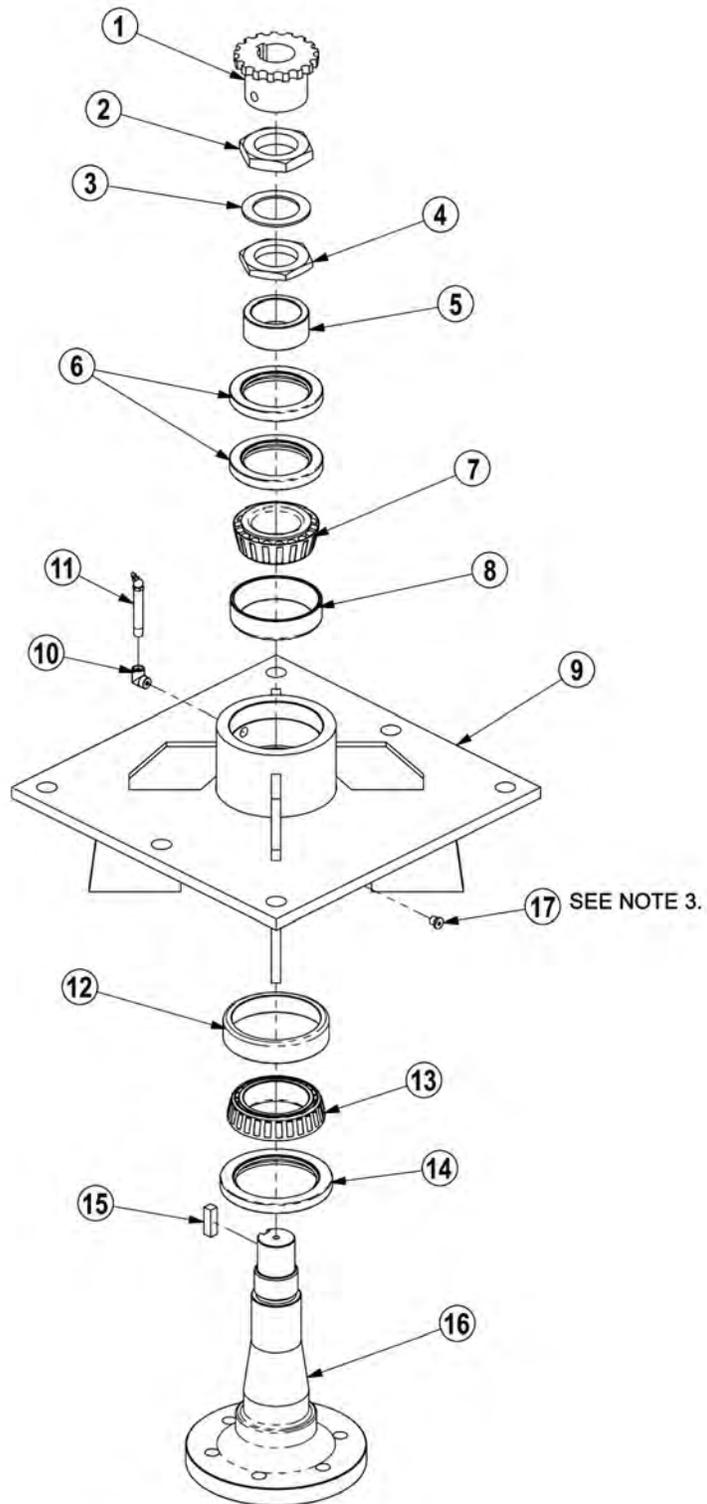
1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

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"
---	32572	-	SPINDLE REBUILD KIT (ITEMS 2 THRU 8 & 12 THRU 15)

ROTARY MOWER SPINDLE ASSEMBLY



NOTES:

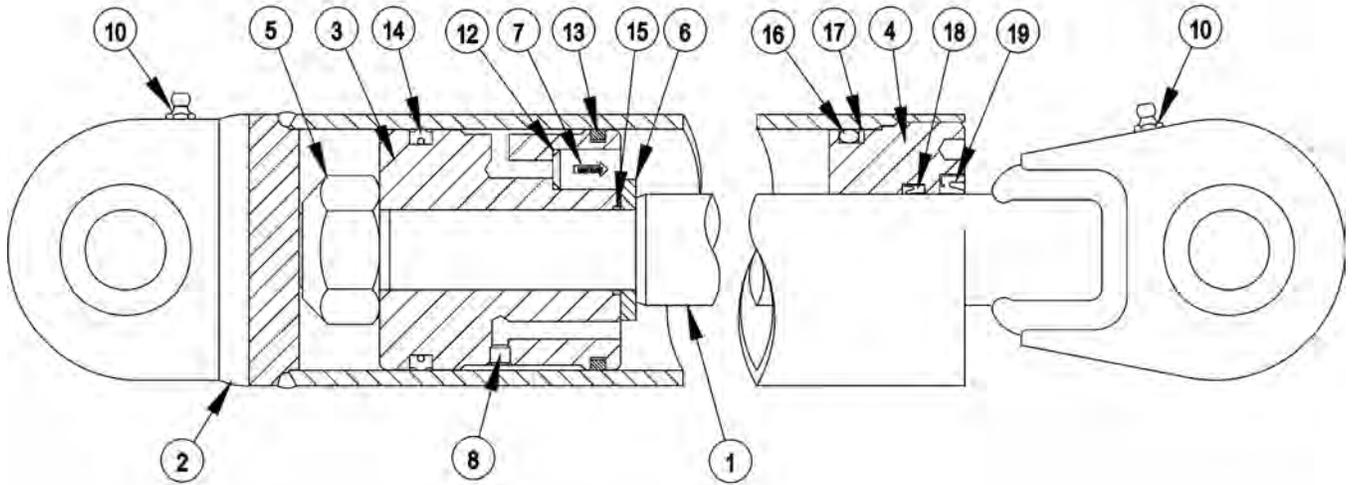
1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRS.

ROTARY MOWER SPINDLE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
9	6T1010H	1	SPINDLE HOUSING
10	30570	1	FITTING STREET ELBOW
11	33990	1	GREASE ZERK
12	6T1013H	1	BEARING CUP
13	6T1012H	1	BEARING CONE
14	6T1011H	1	LOWER SEAL
15	6T1019	1	SPINDLE KEY
16	PT1018H-5	1	SPINDLE
17	06503064	1	O-RING PLUG, 1/8"
-----	31771	-	SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15)

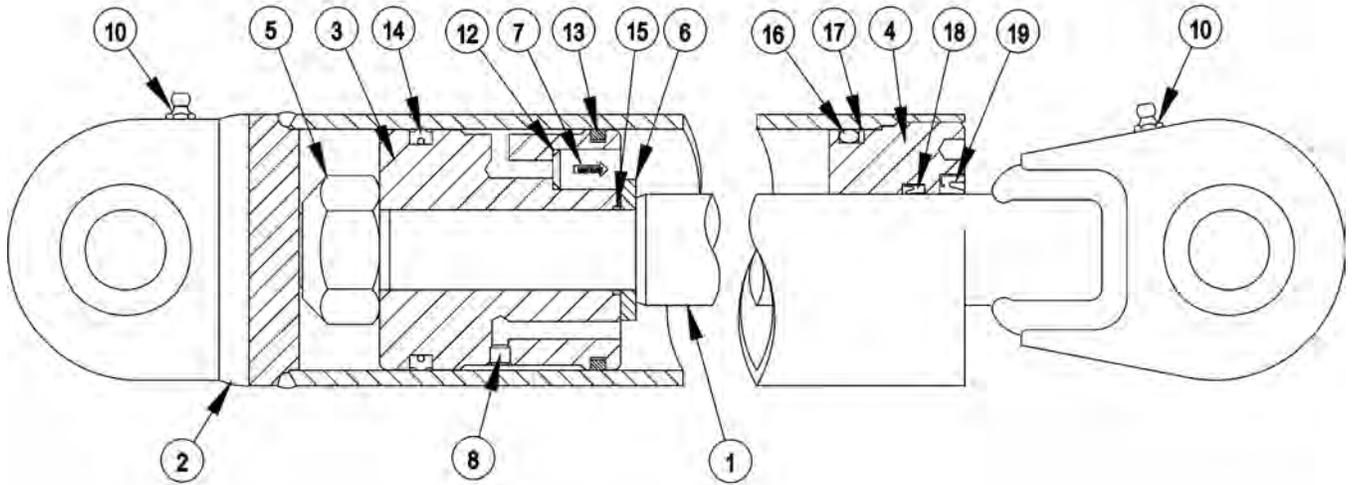
3IN X 17-1/2IN WELDED CYLINDER BREAKDOWN



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)

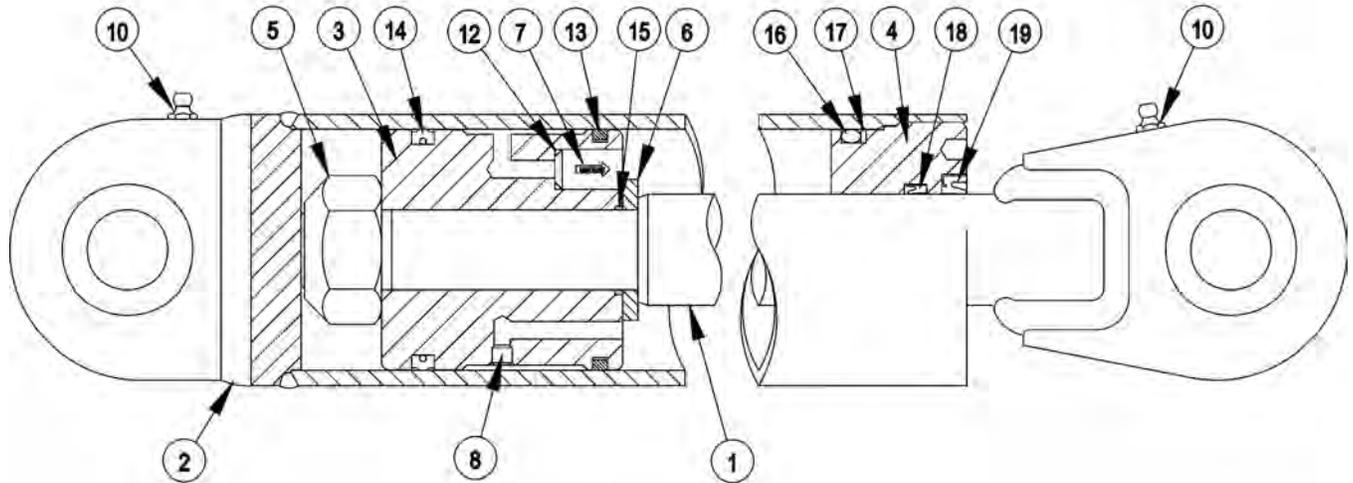
4IN X 15IN WELDED CYLINDER BREAKDOWN



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)

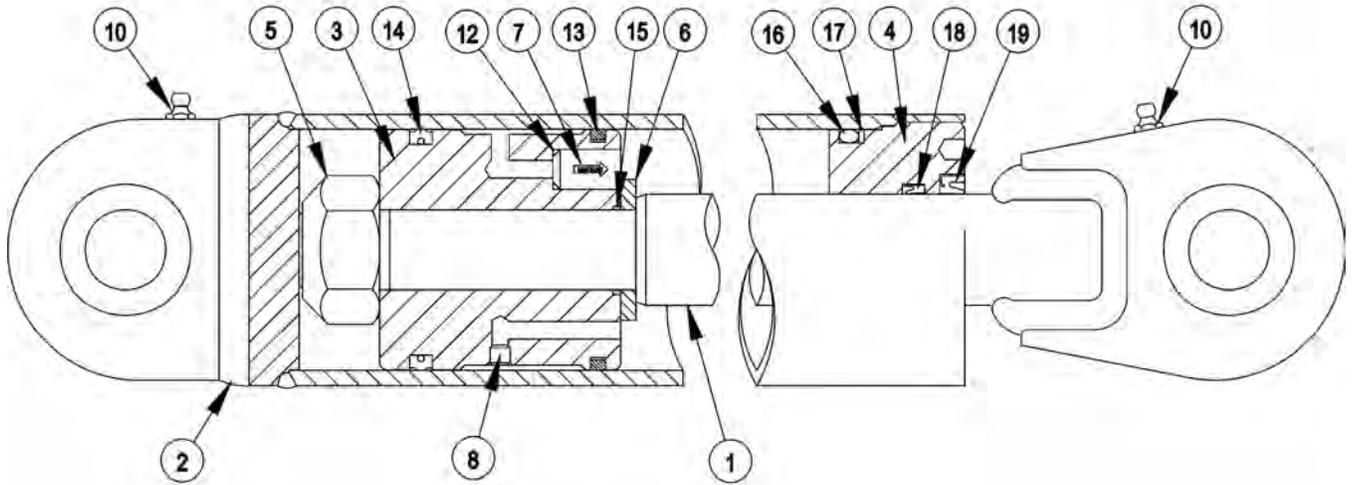
4-1/2IN X 26-1/2IN WELDED CYLINDER BREAKDOWN



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)

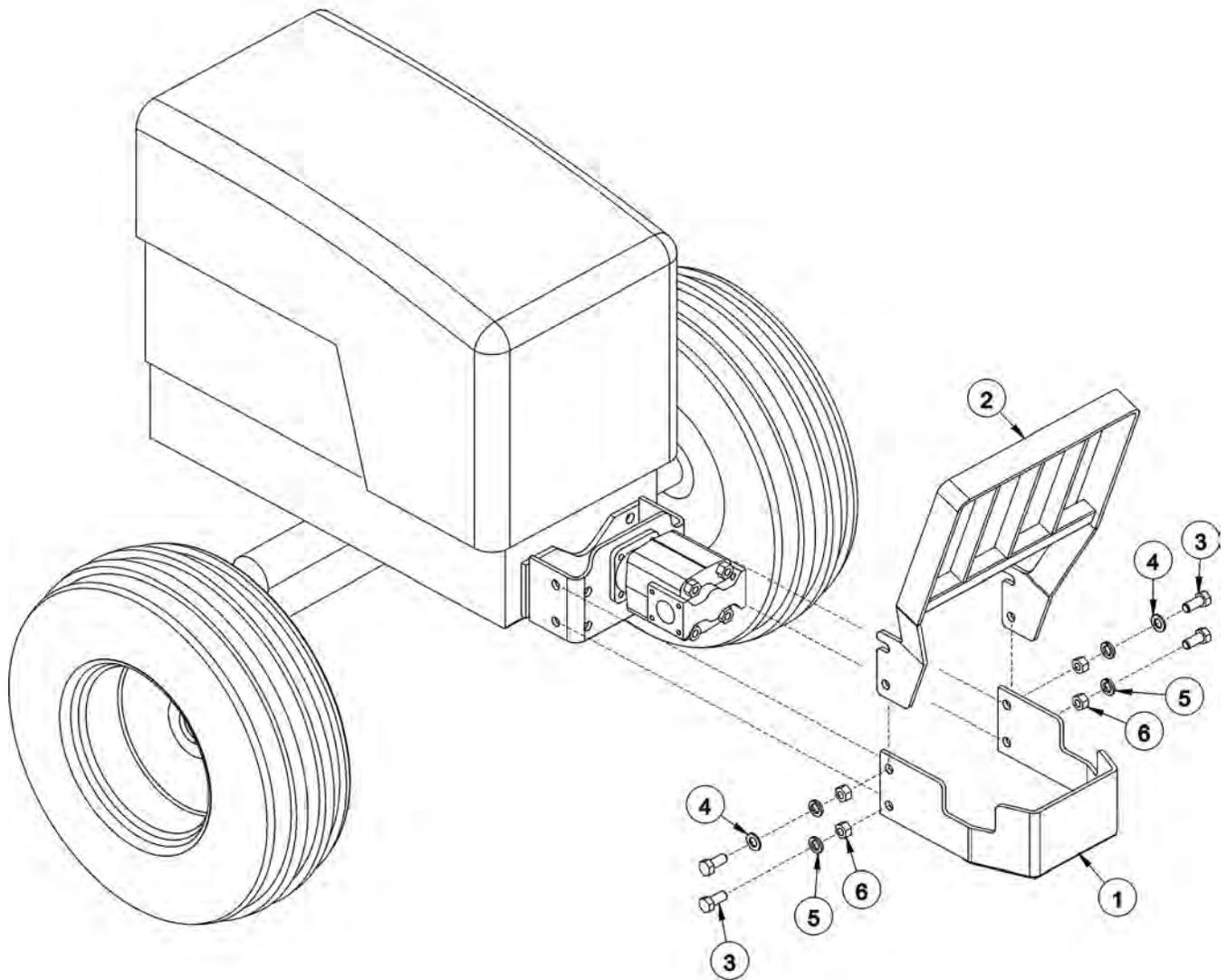
5IN X 25IN WELDED CYLINDER BREAKDOWN



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

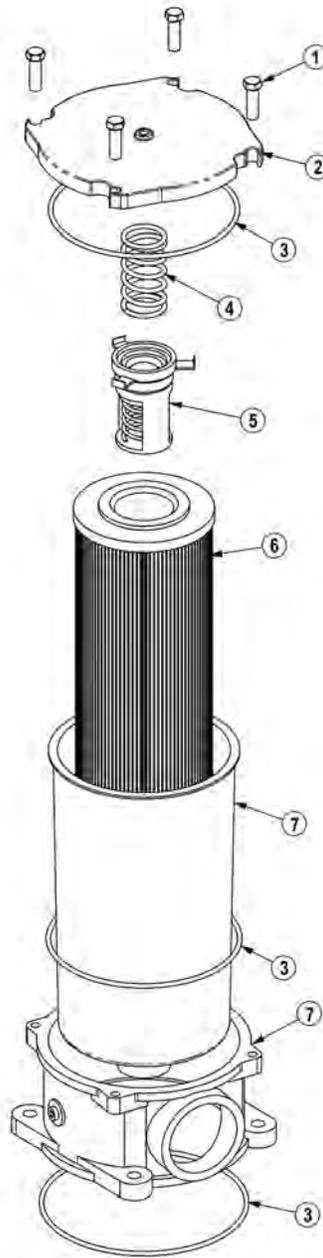
ITEM	PART NO.	QTY.	DESCRIPTION
---	32363	-	CYLINDER,WELDED,5" X 25"
1	34592	1	PISTON ROD ASSY
2	34593	1	BUTT & TUBE ASSY
3	34594	1	PISTON
4	34595	1	GLAND
5	34596	1	LOCK NUT,1-3/4"-12 UNF (TORQUE TO 1800 - 2000 FT.LB.)
7	34597	1	CHECK VALVE,KEPNER
8	34598	1	ORIFICE
9	33759	1	SEAL KIT,PACKING (ITEMS 12 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

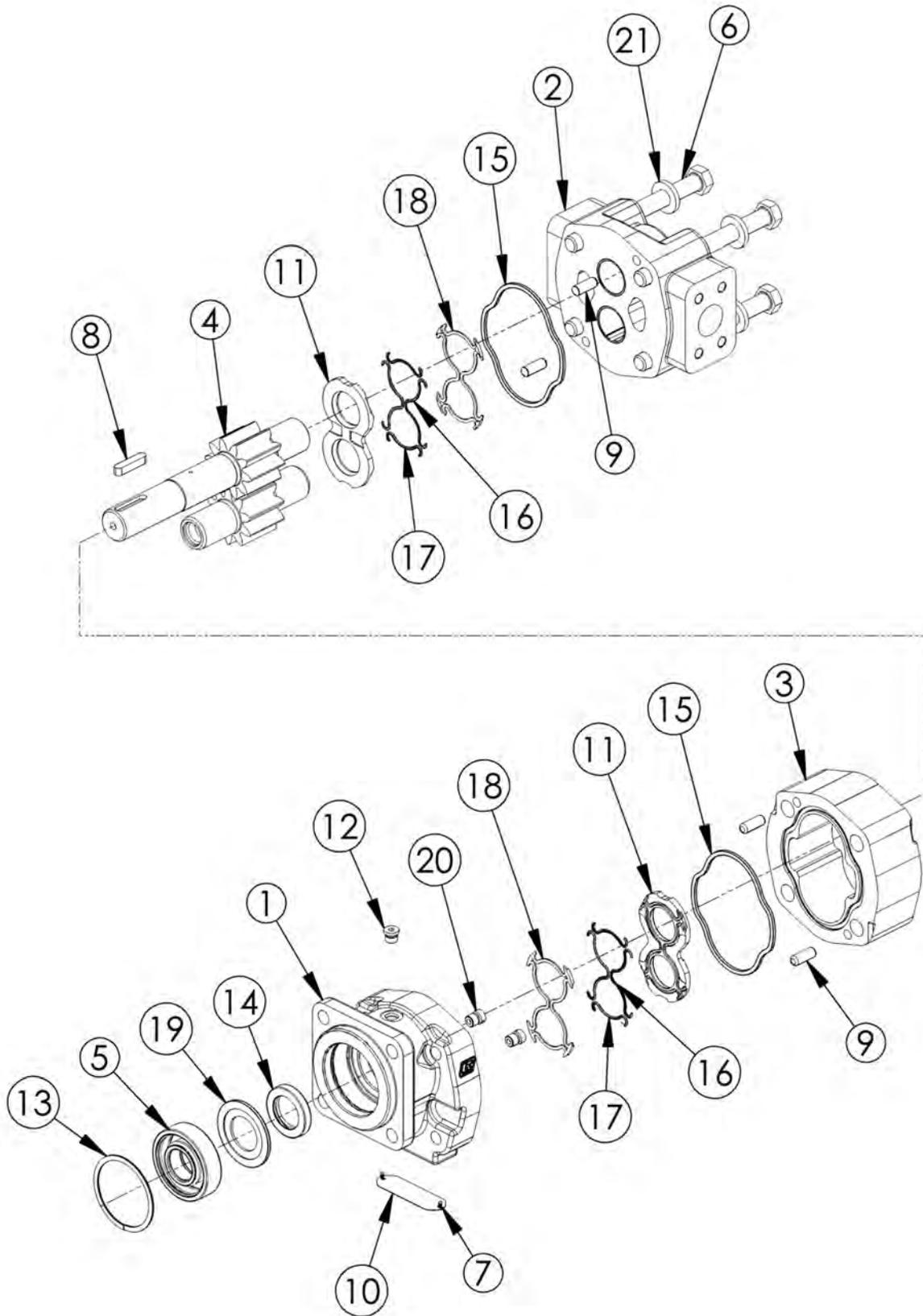
RESERVOIR TANK FILTER ASSEMBLY



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 T4

50IN AND 63IN FLAIL MOTOR BREAKDOWN

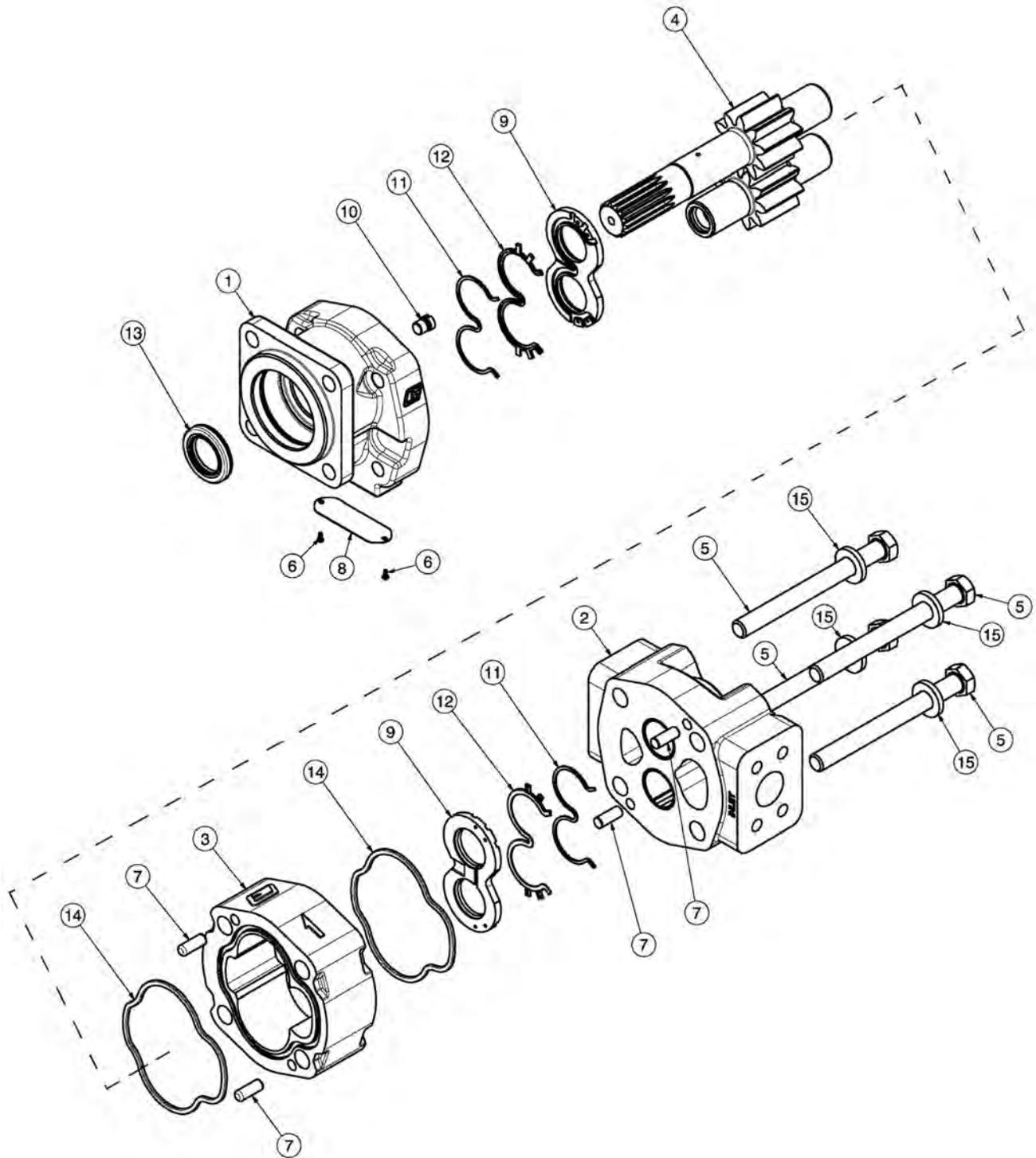


50IN AND 63IN FLAIL MOTOR BREAKDOWN

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06504132	-	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
-----	06504116	-	SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

FRONT HYDRAULIC PUMP

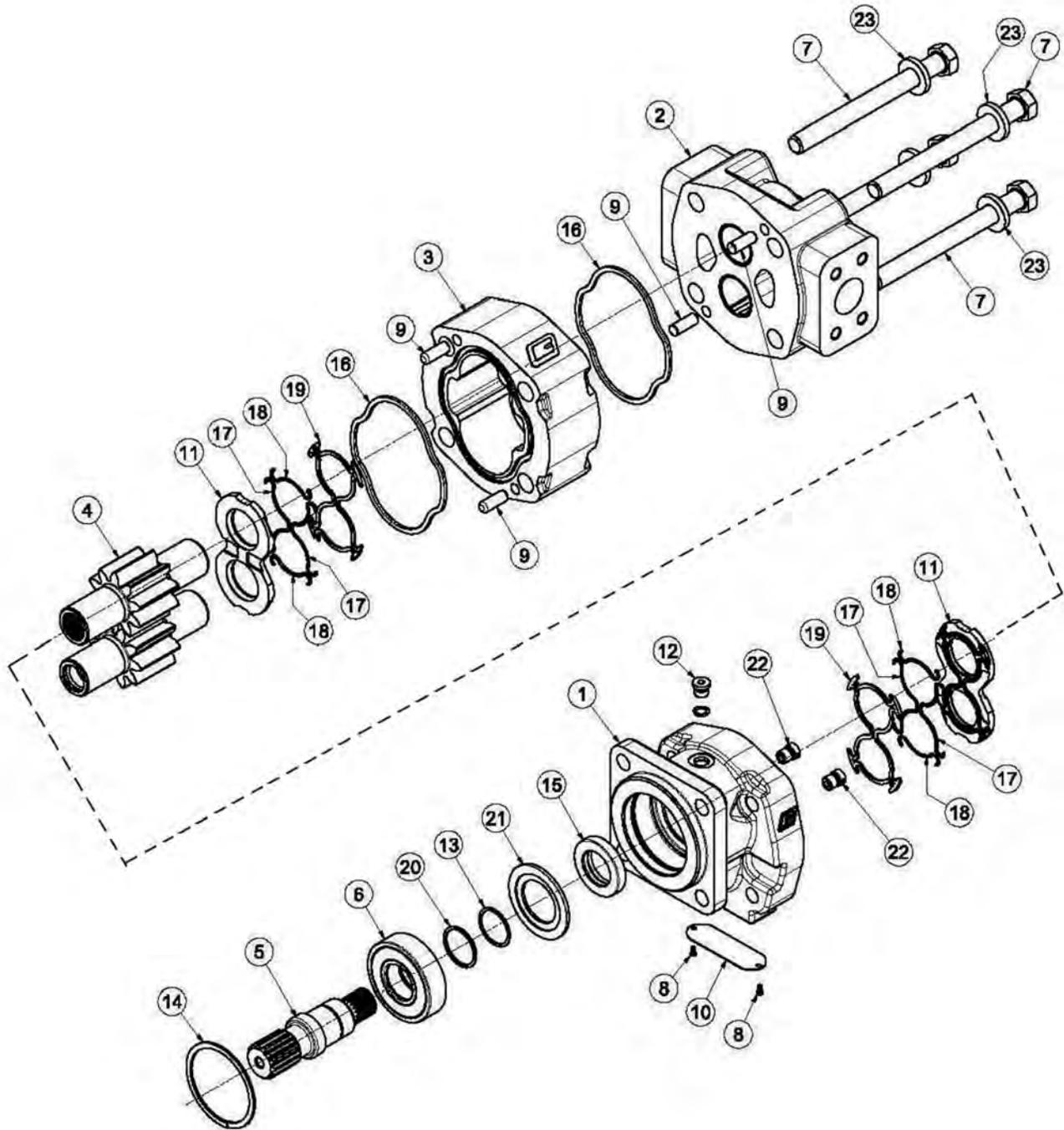


FRONT HYDRAULIC PUMP

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 FLAIL DIRECT DRIVE MOTOR BREAKDOWN

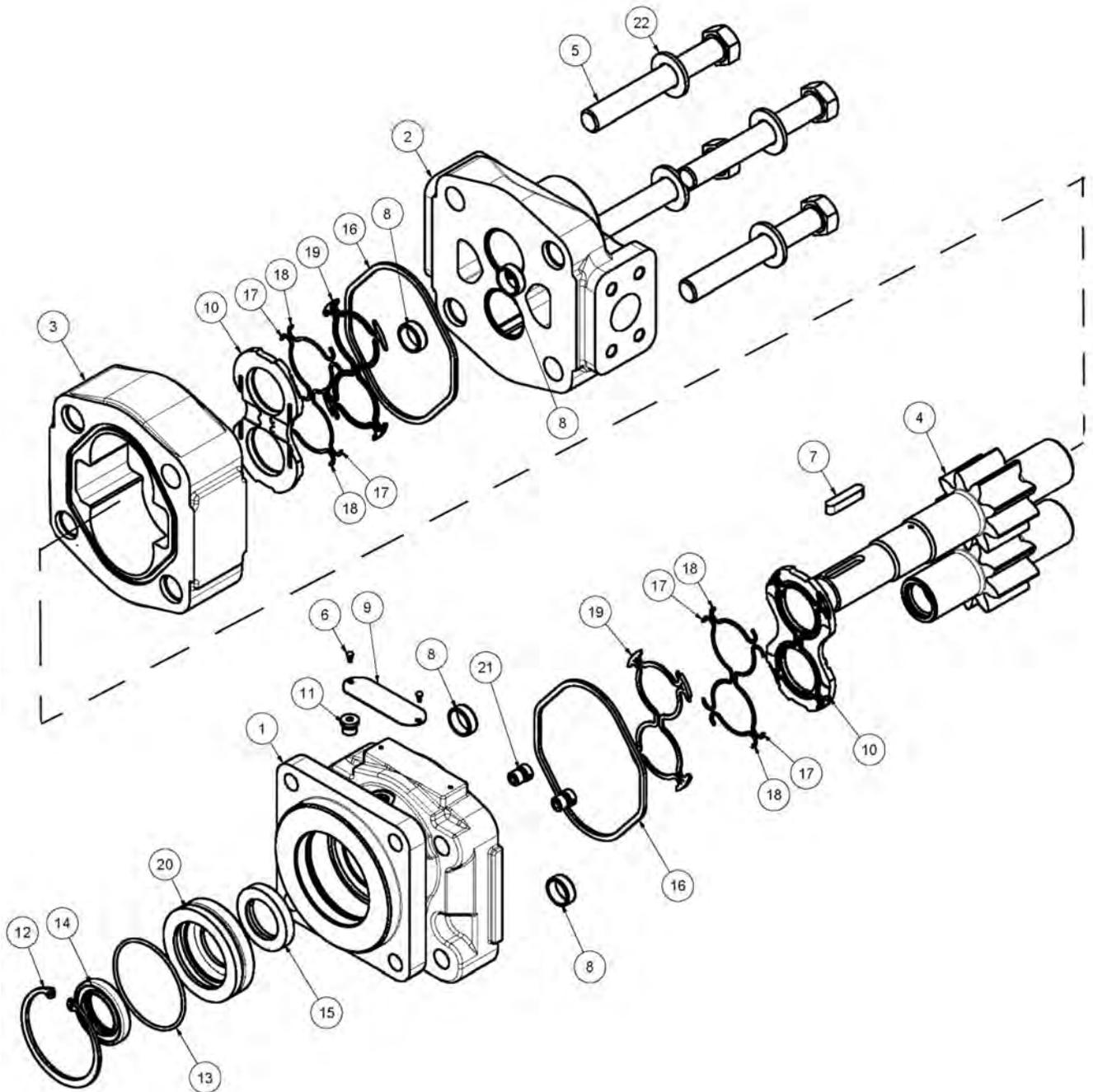


50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN

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

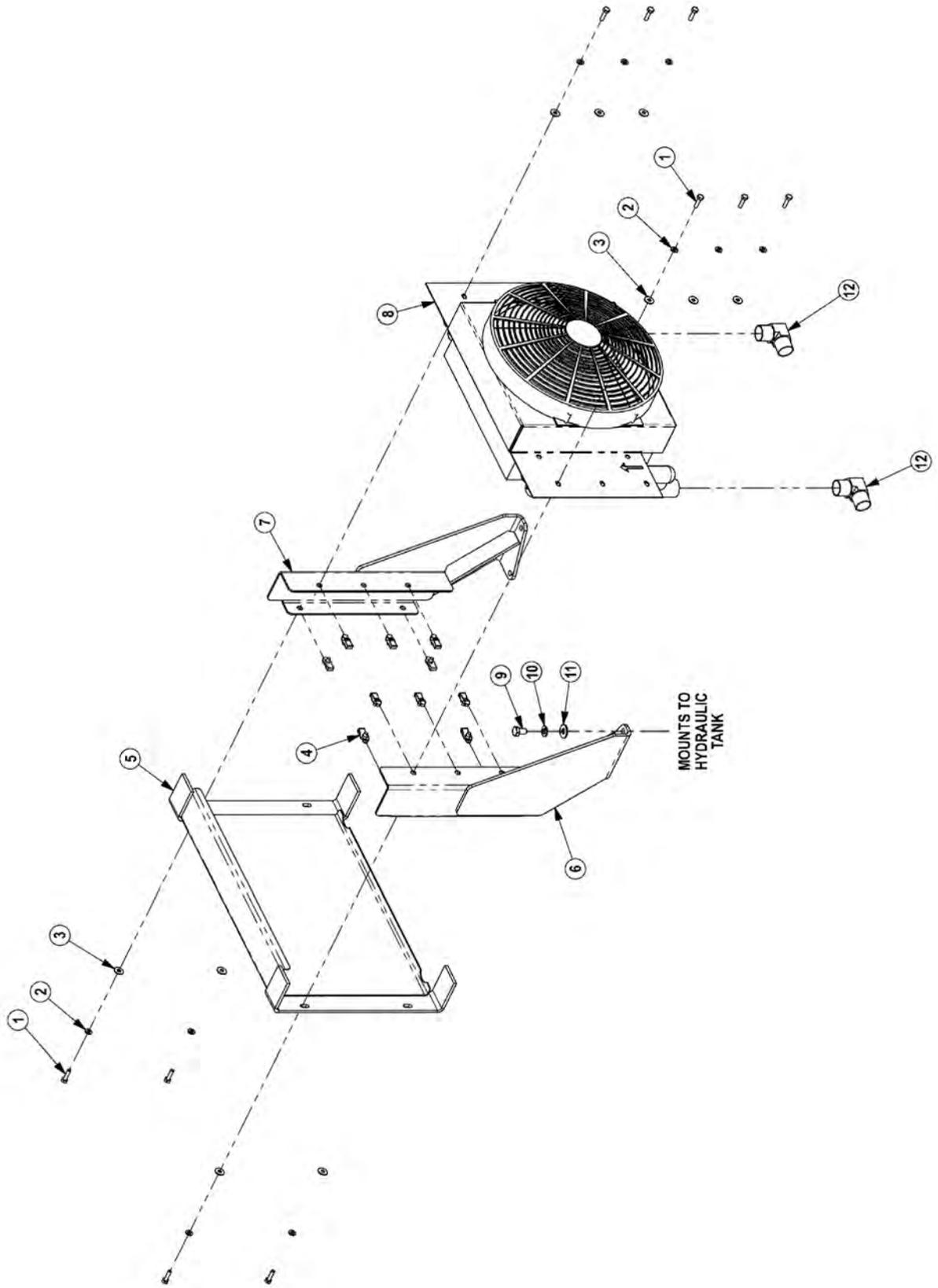


50IN AND 60IN ROTARY MOTOR BREAKDOWN

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

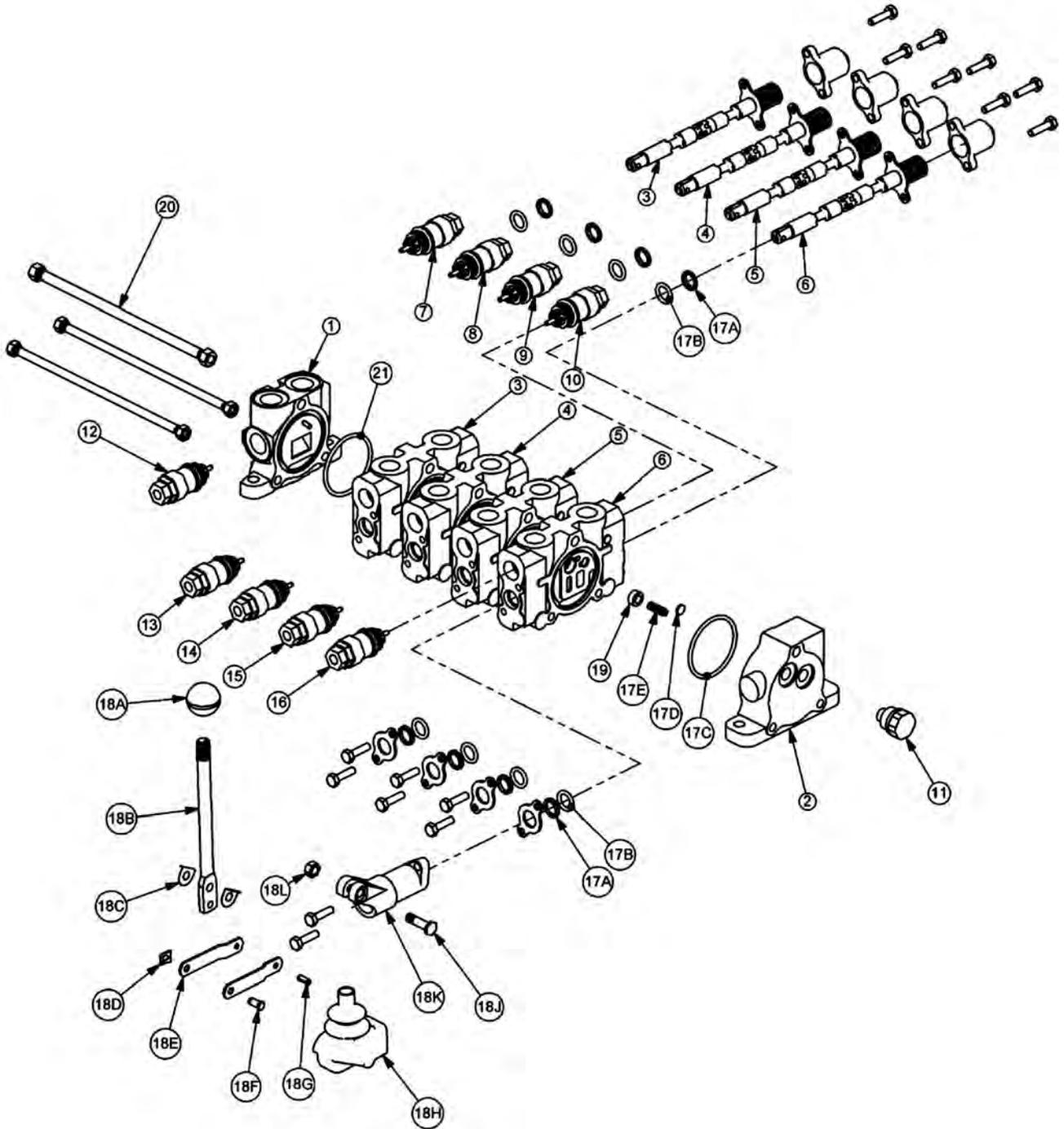


COOLER ASSEMBLY

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	06510350	1	COOLER,FRONT MNT
---	06510029	1	FAN ASSY, ONLY
9	21629	4	CAPSCREW,3/8 X 3/4 NC
10	21988	4	LOCKWASHER,3/8
11	22016	4	FLATWASHER,3/8
12	34117	2	ELBOW,1MOR X 1MJ90,FORGED

CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104



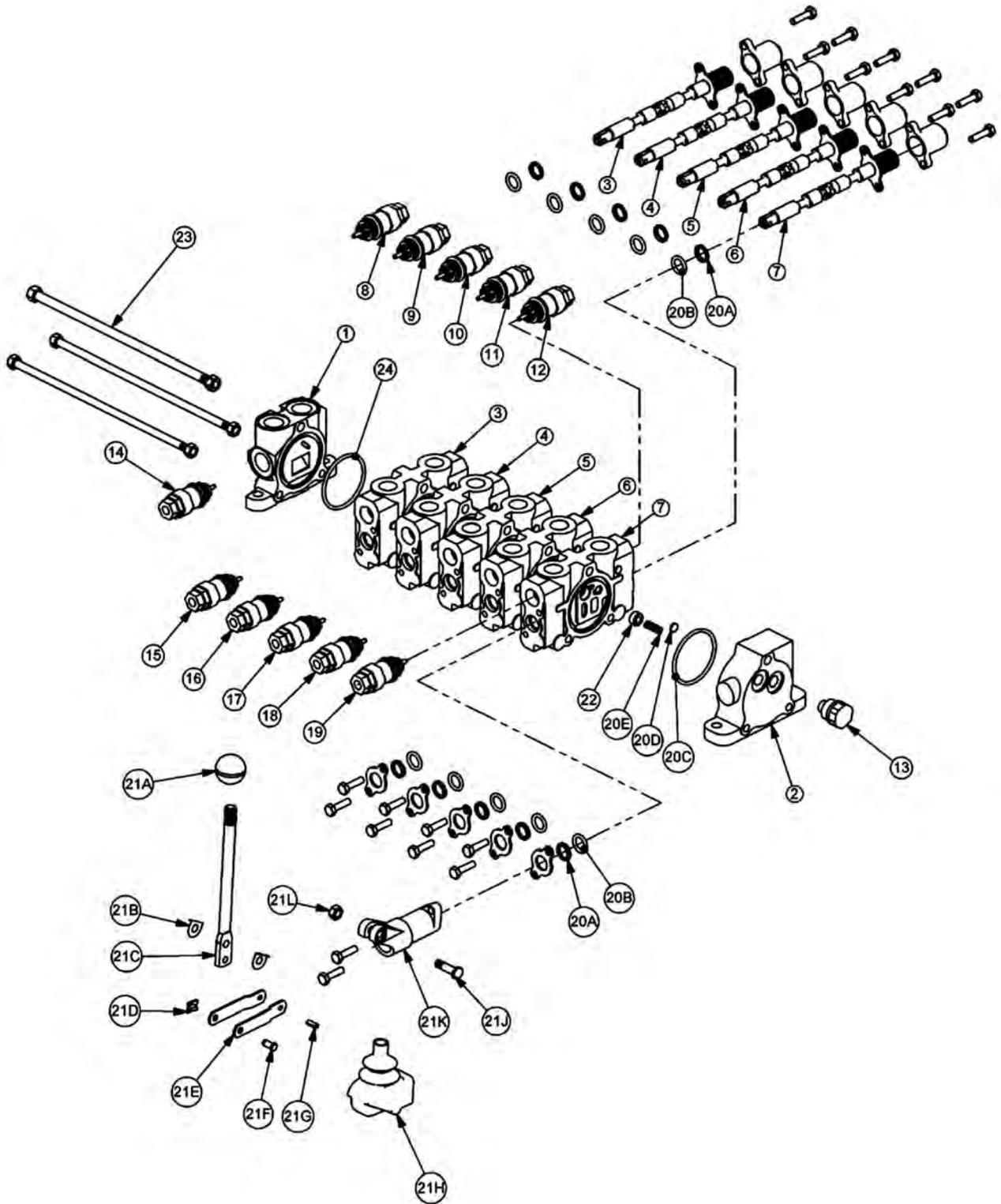
CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104

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 T4

CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103



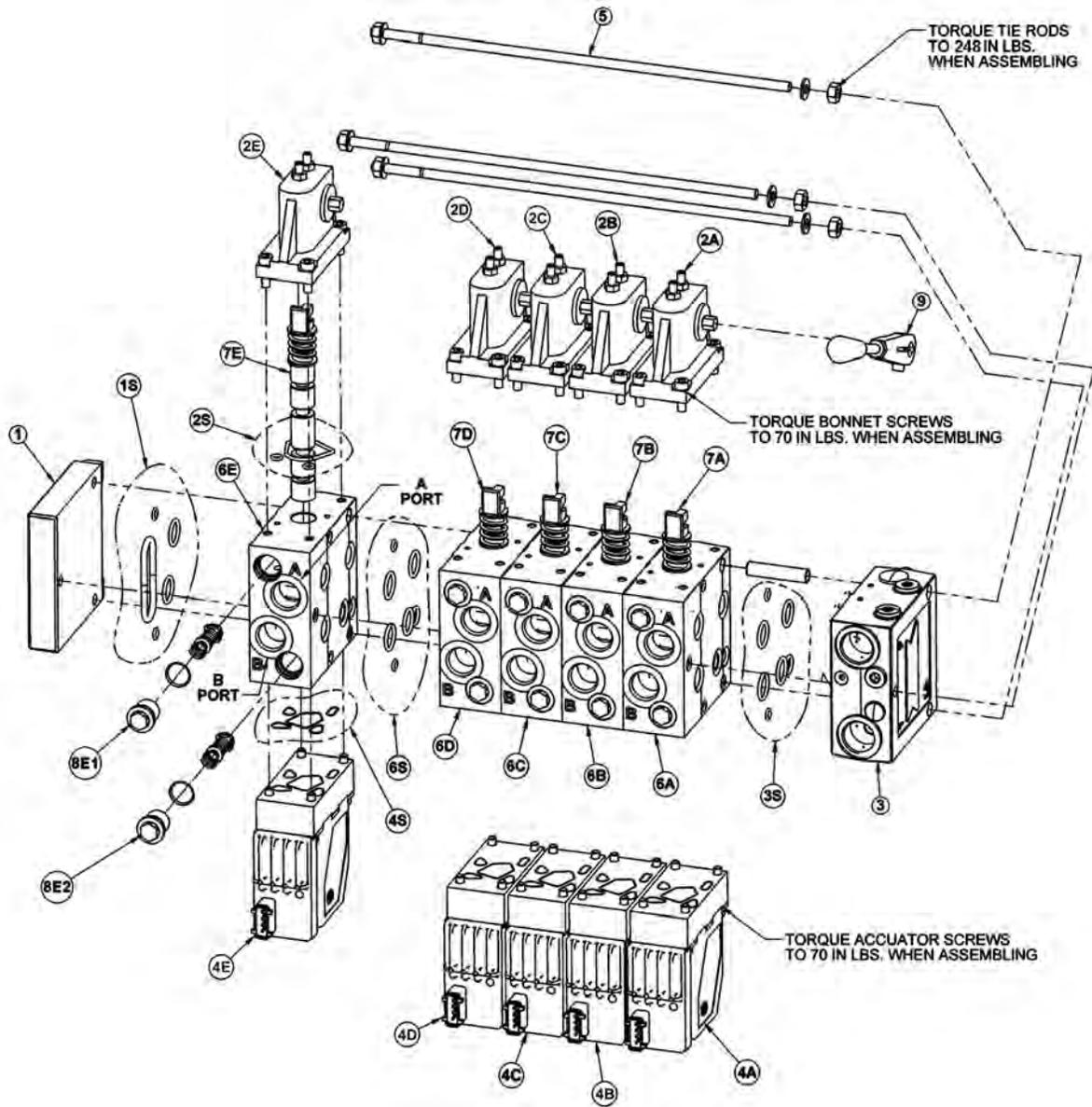
CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103

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 T4

5 SPOOL ELECTRONIC VALVE - 06502146



ITEM	PART NO.	QTY.	DESCRIPTION
-----	06502146	-	VLV,5SP,32PVG, SABER
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

COMMON SABER T4

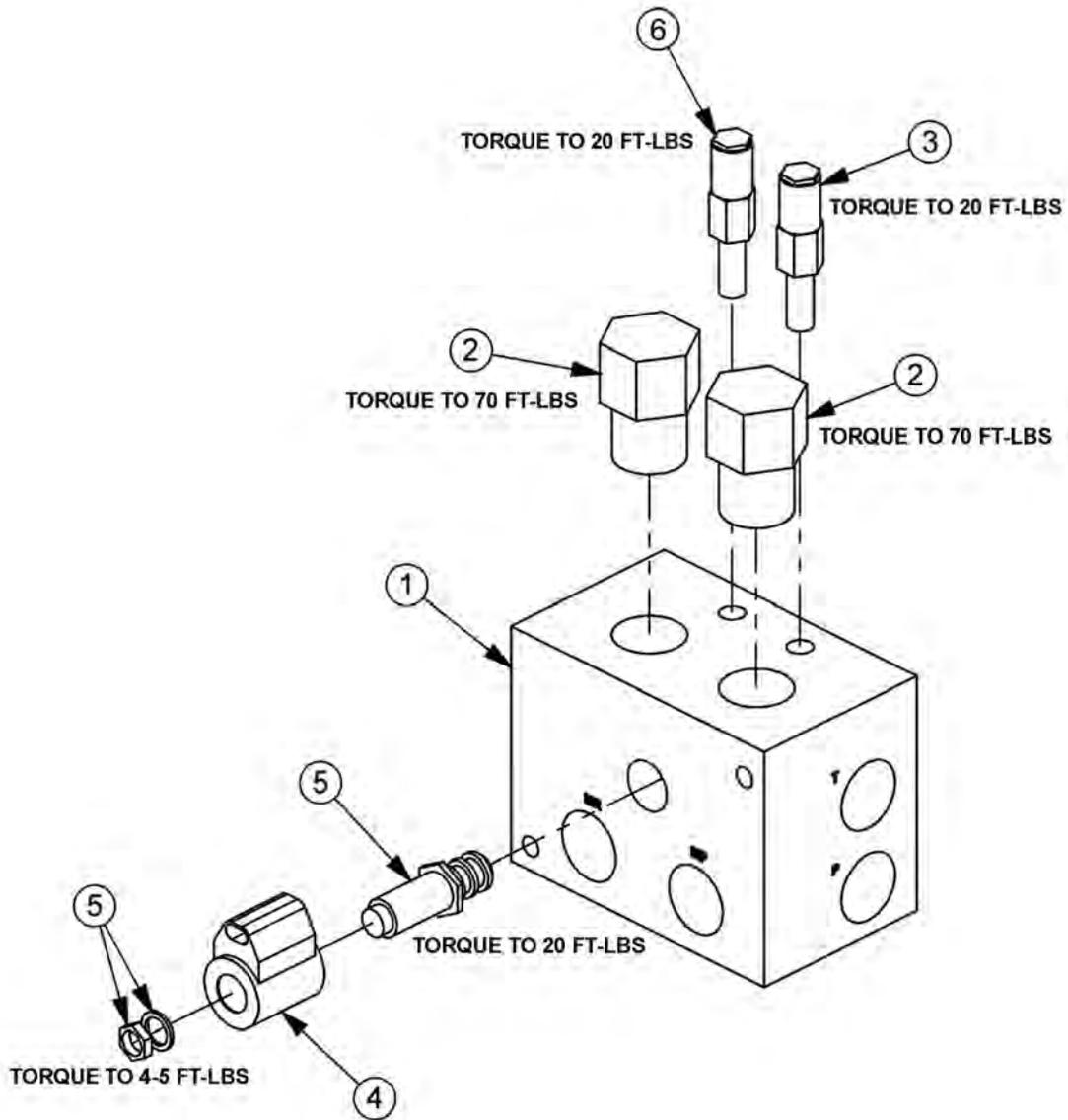
5 SPOOL ELECTRONIC VALVE - 06502146

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	06502083	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

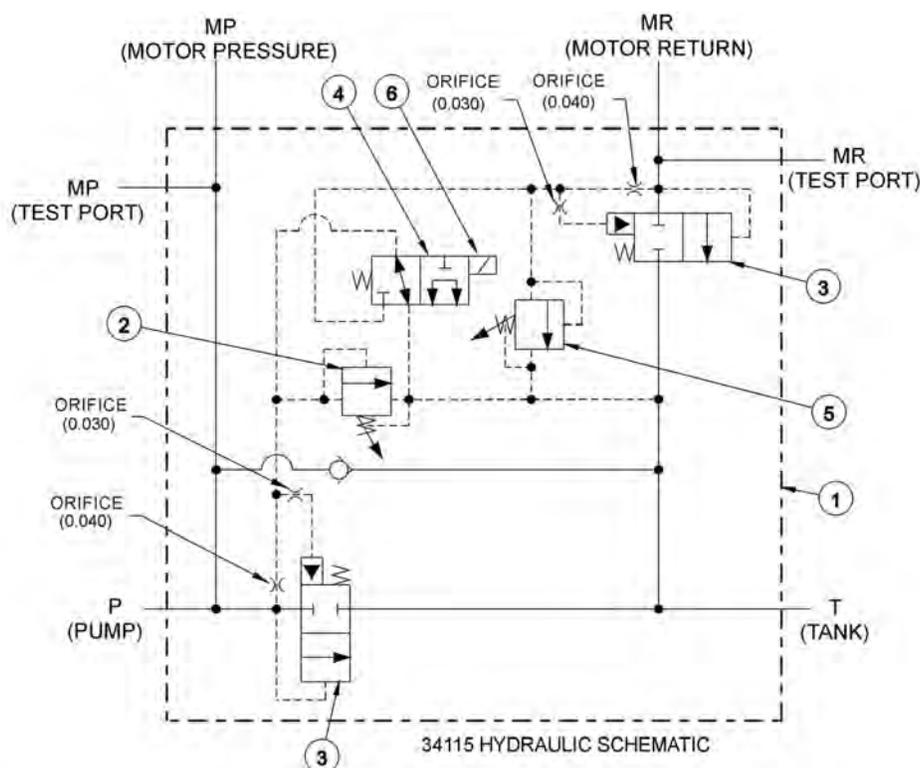
COMMON SABER T4

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

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.

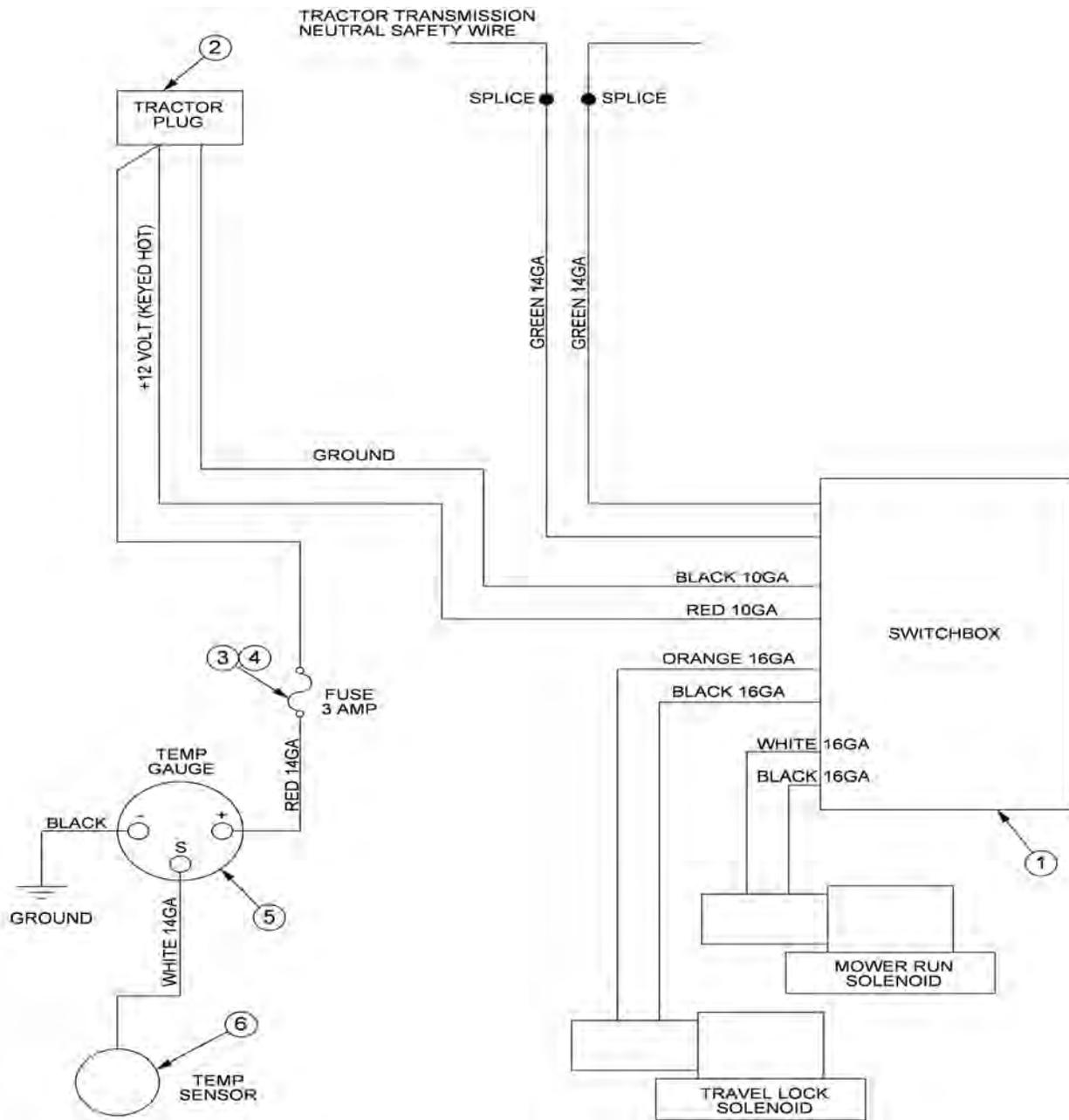
CHECK STEPS

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

CORRECTIVE STEPS:

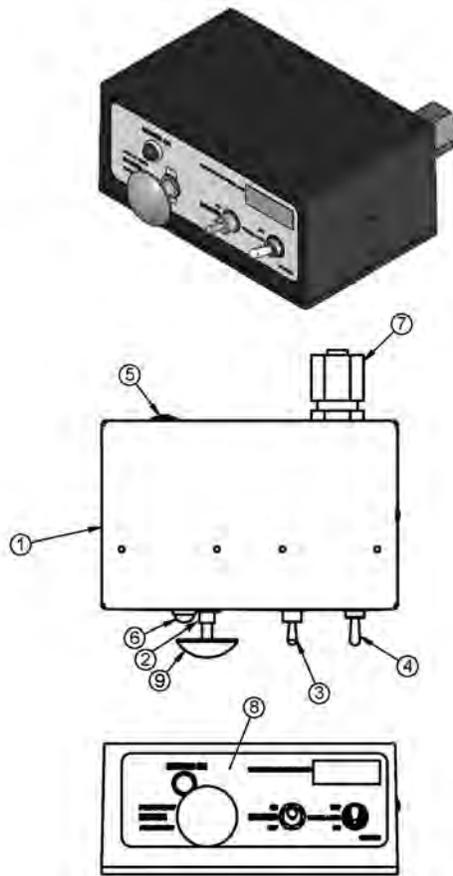
1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve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



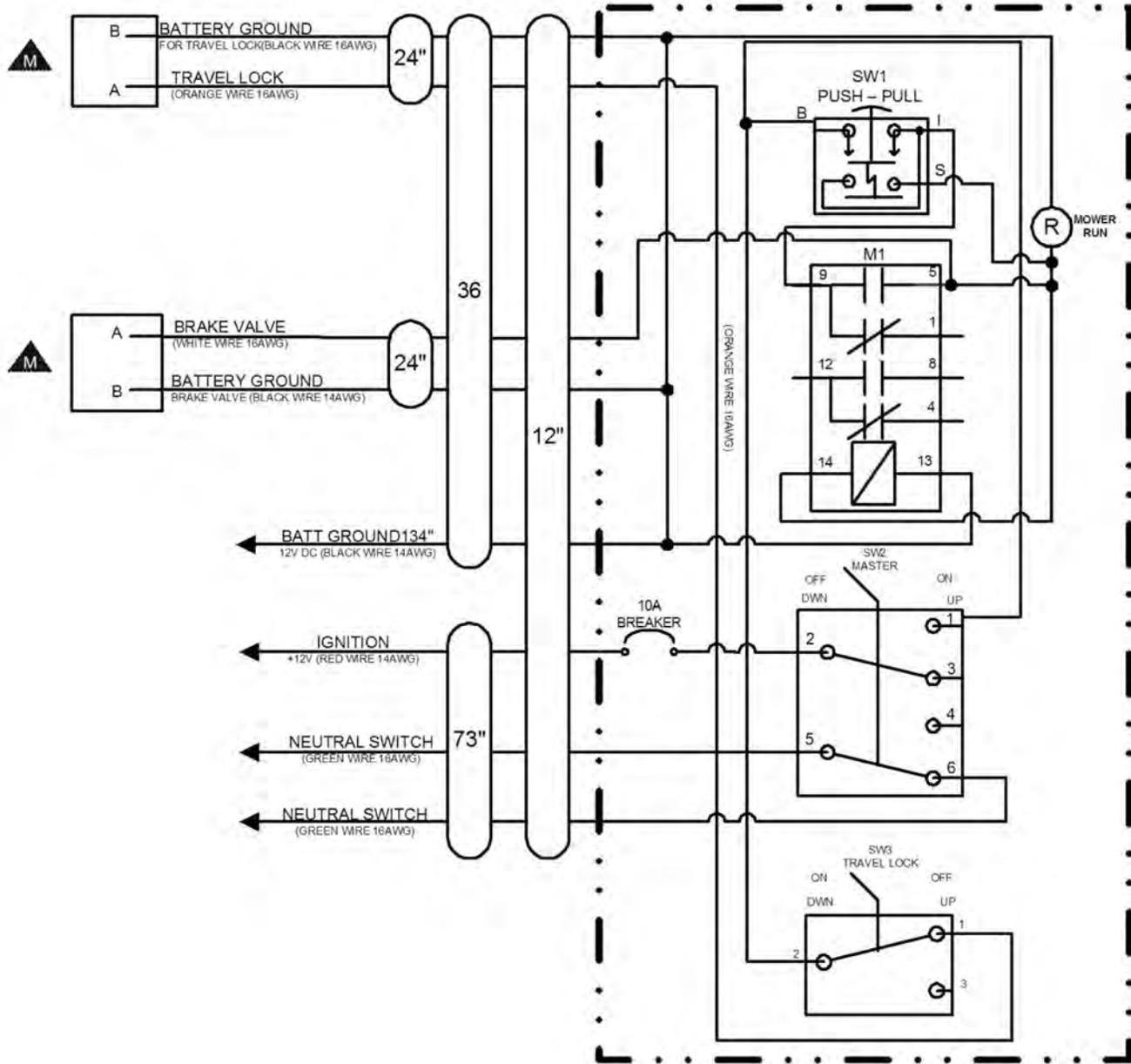
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	SWITCH BOX
2	RE37651	1	PLUG,AUX PWR
3	24204	-	FUSE HOLDER,IN-LINE (OPTION)
4	6T3965	-	FUSE,3AMP (OPTION)
5	6T3934	-	TEMPERATURE GAUGE (OPTION)
6	6T3931	-	TEMPERATURE SENSOR (OPTION)

MANUAL LIFT VALVE SWITCH BOX

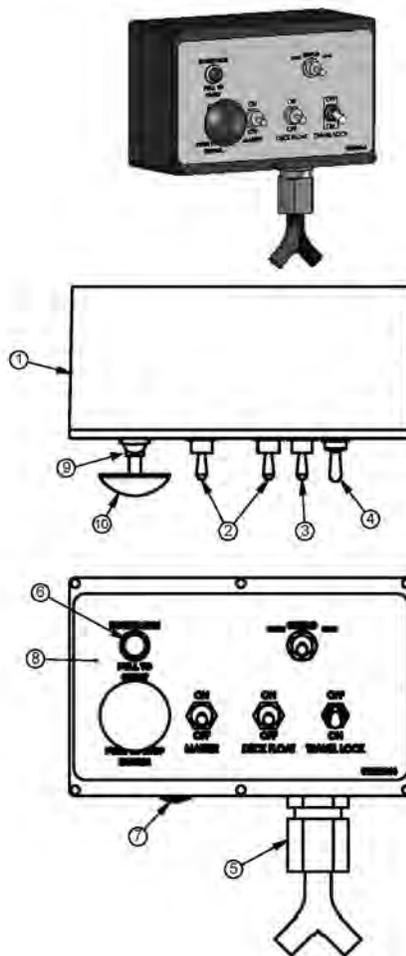


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514012	1	SWBX,ALUM,BLK,06510100
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	34532	1	SWITCH,TRVL LCK
5	06514014	1	BREAKER,10A,SWBX
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
8	06550019	1	DECAL,SWTCHBX,BOOM,CG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

MANUAL LIFT VALVE SCHEMATIC

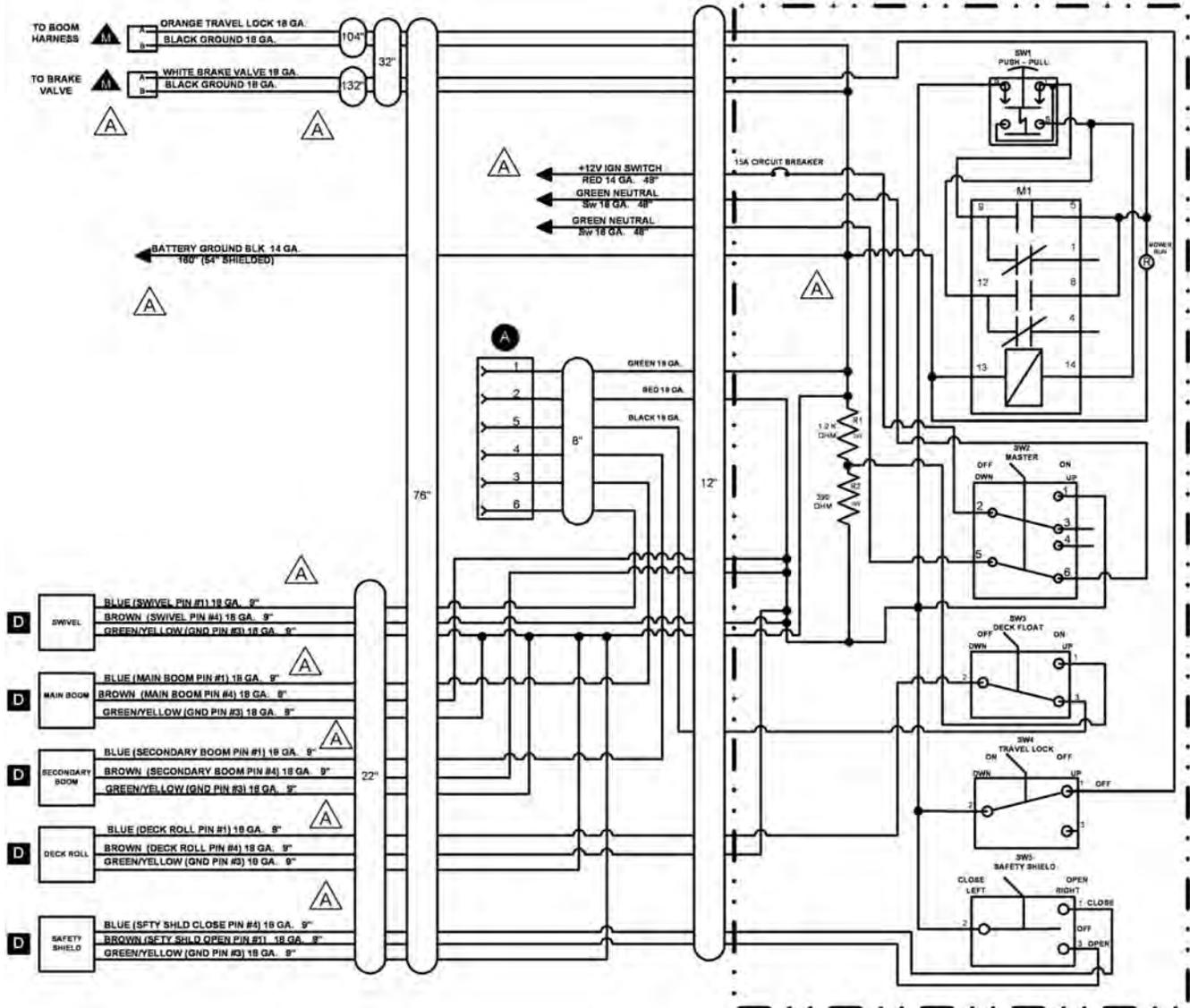


ELECTRONIC LIFT VALVE SWITCH BOX

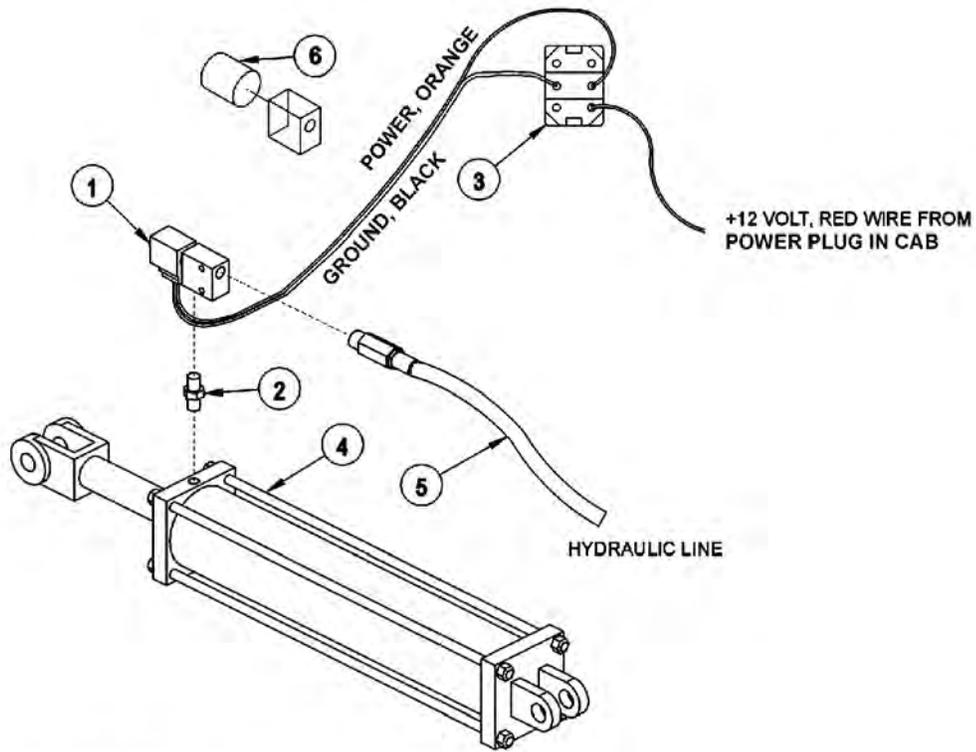


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,MOWER,COLEHERSEE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

ELECTRONIC LIFT VALVE SCHEMATIC



BOOM TRAVEL LOCK



DANFOSS SWITCH BOX



TRAVEL LOCK
SWITCH

HUSCO SWITCH BOX



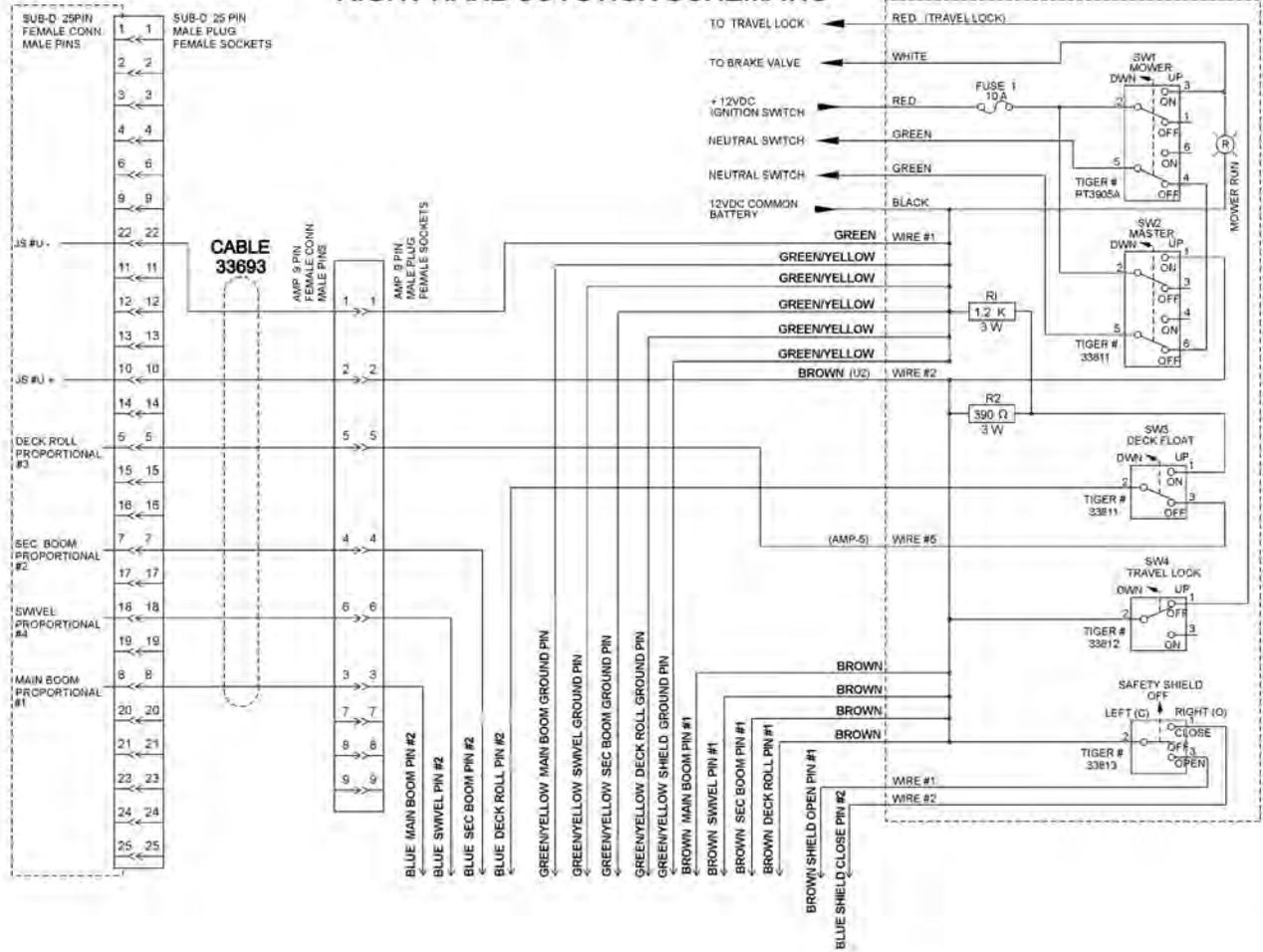
TRAVEL LOCK
SWITCH

ITEM	PART NO.	QTY.	DESCRIPTION
1	31328	1	HYDRAULIC TRAVEL LOCK VALVE
2	31329	1	ADAPTER - STANDARD BOOM
3	34532	1	SWITCH,TRAVEL LOCK
4	-----	-	MAIN BOOM CYLINDER *REFER TO BOOM ASSY
5	-----	-	HOSE / FITTINGS *REFER TO BOOM HYD ASSY
6	34796	1	COIL ,TRAVEL LOCK

JOYSTICK SWITCHBOX SCHEMATIC

RIGHT HAND JOYSTICK # 33691

RIGHT HAND JOYSTICK SCHEMATIC



JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

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

Electronic inspection.

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

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

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

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

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

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

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

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

Possible electronic problems.

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

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING - CONTINUED

Hydraulic inspection.

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

With the spools in Neutral

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

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

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

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

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

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

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

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

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

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

Operate more than one spool.

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

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

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

Possible hydraulic problems.

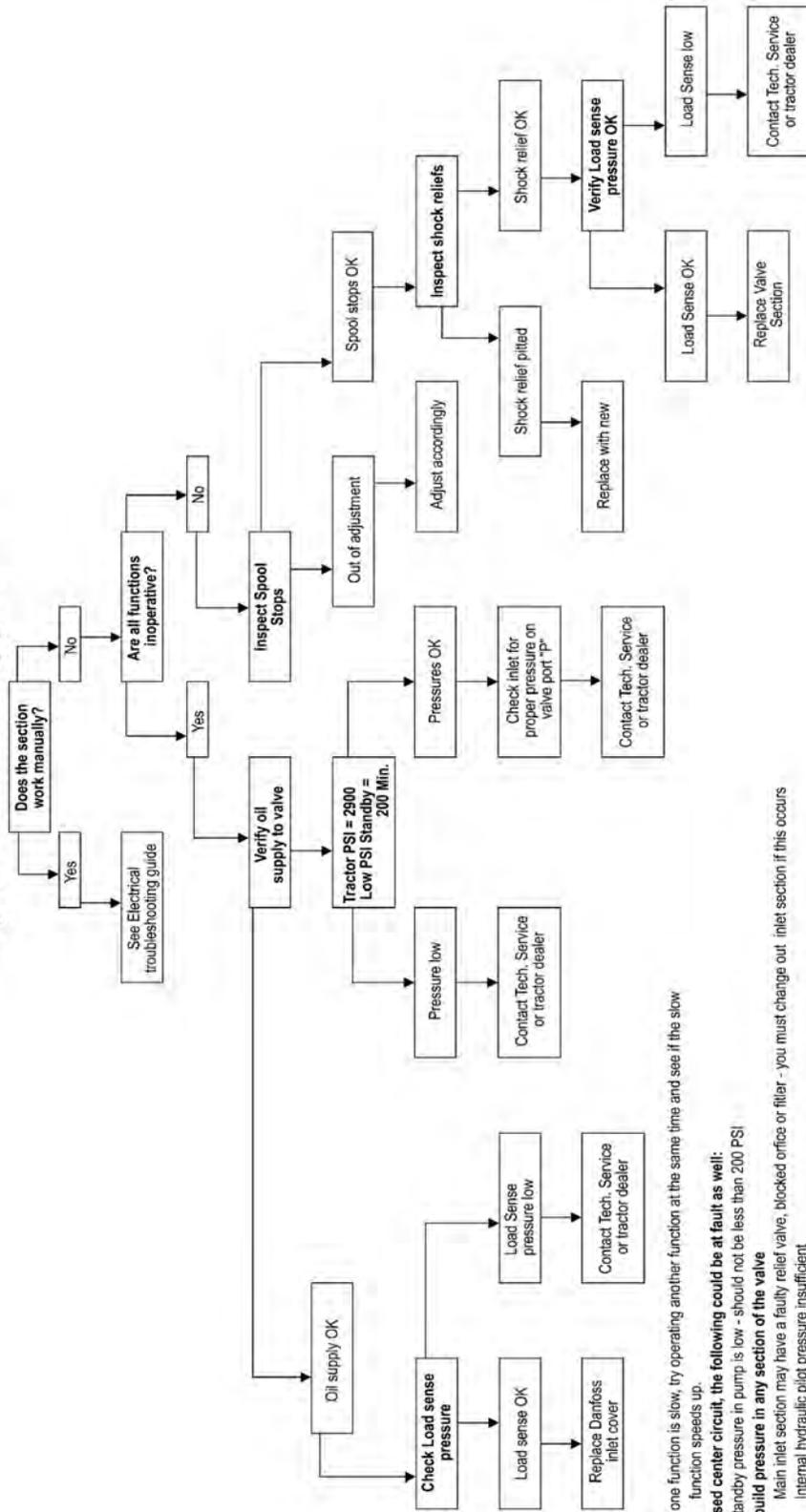
Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

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:

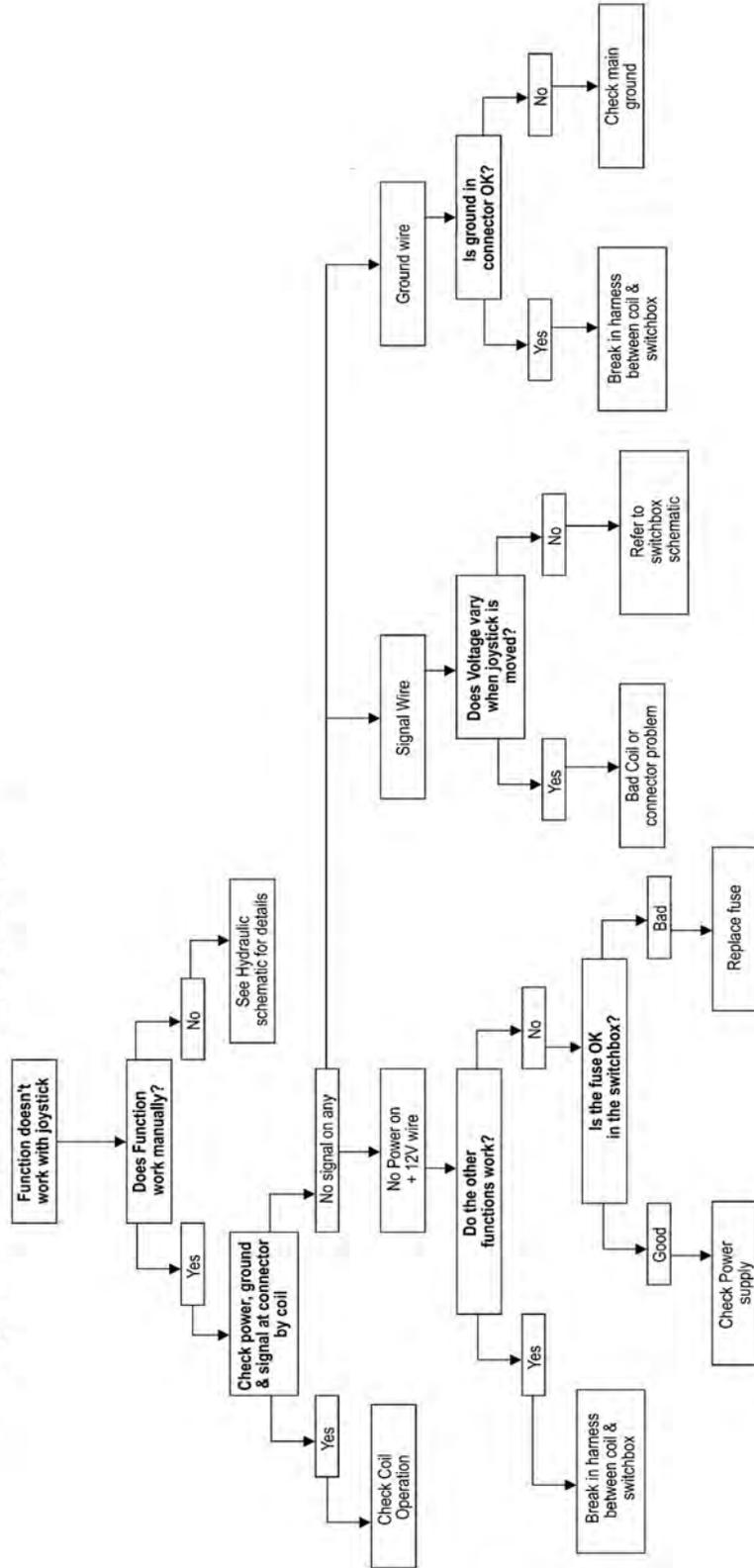
Tractor standby pressure in pump is low - should not be less than 200 PSI

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

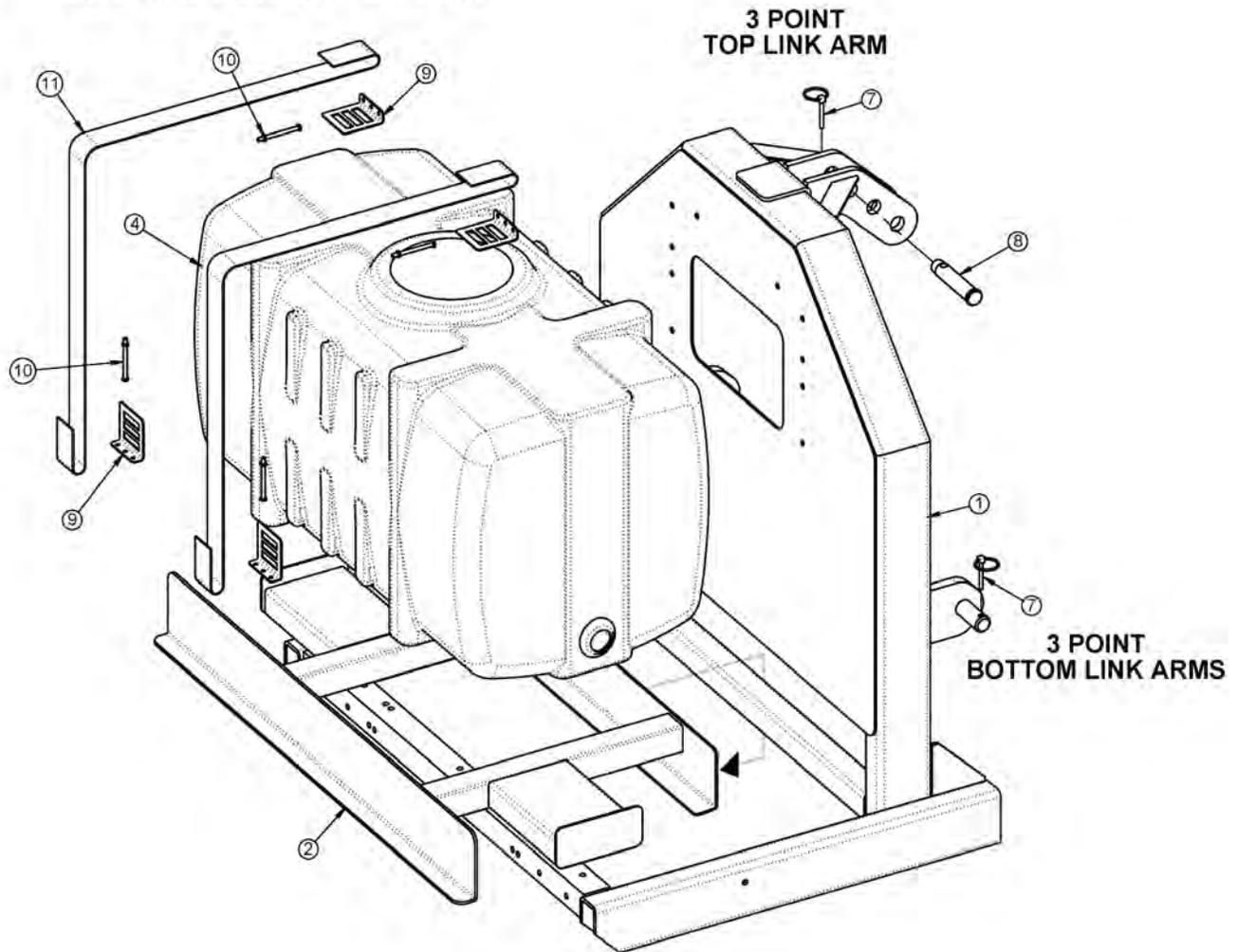


WETCUT

**WETCUT
SECTION**

WETCUT 50 GALLON TANK - 3PNT MOUNT

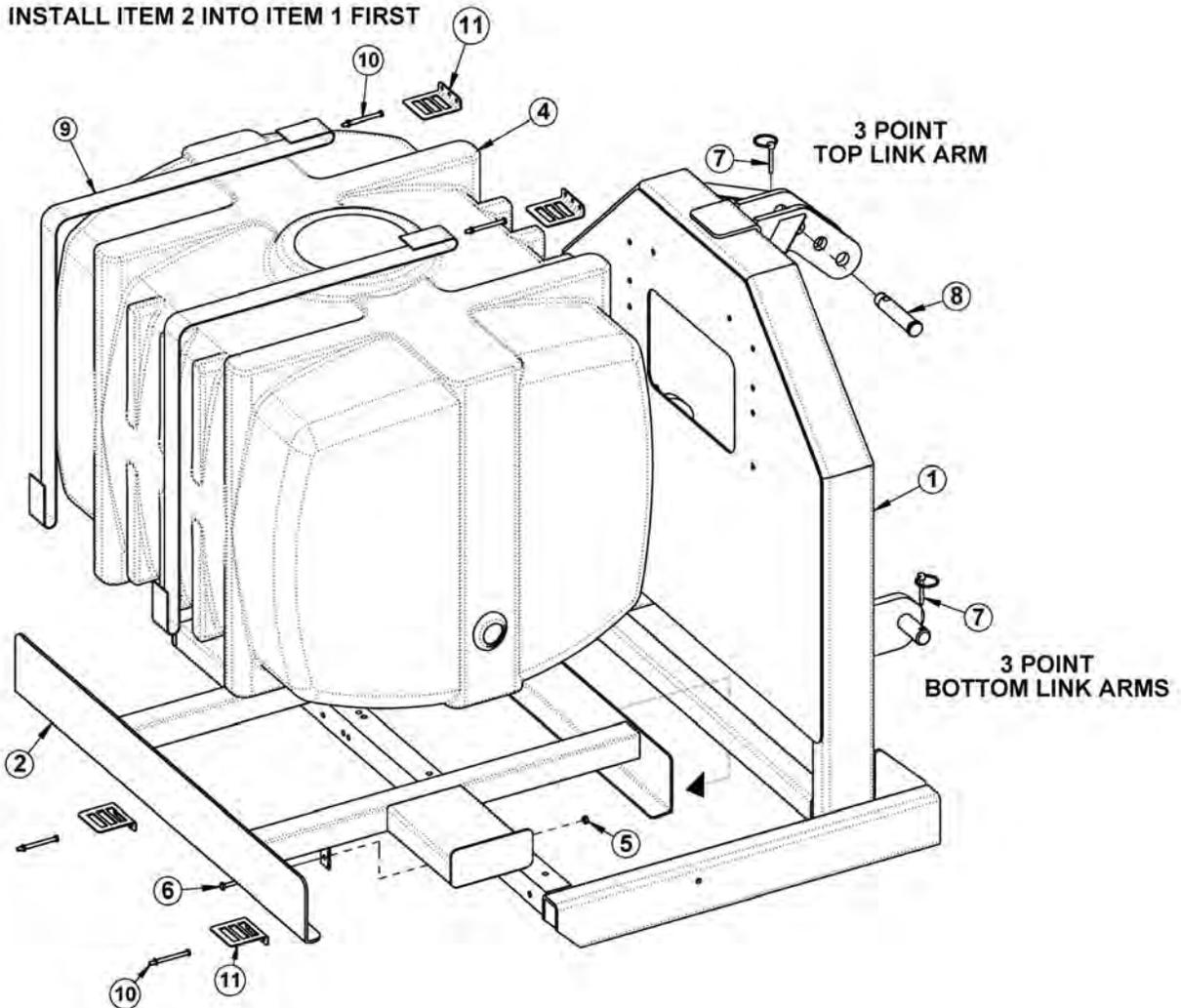
INSTALL ITEM 2 INTO ITEM 1 FIRST



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

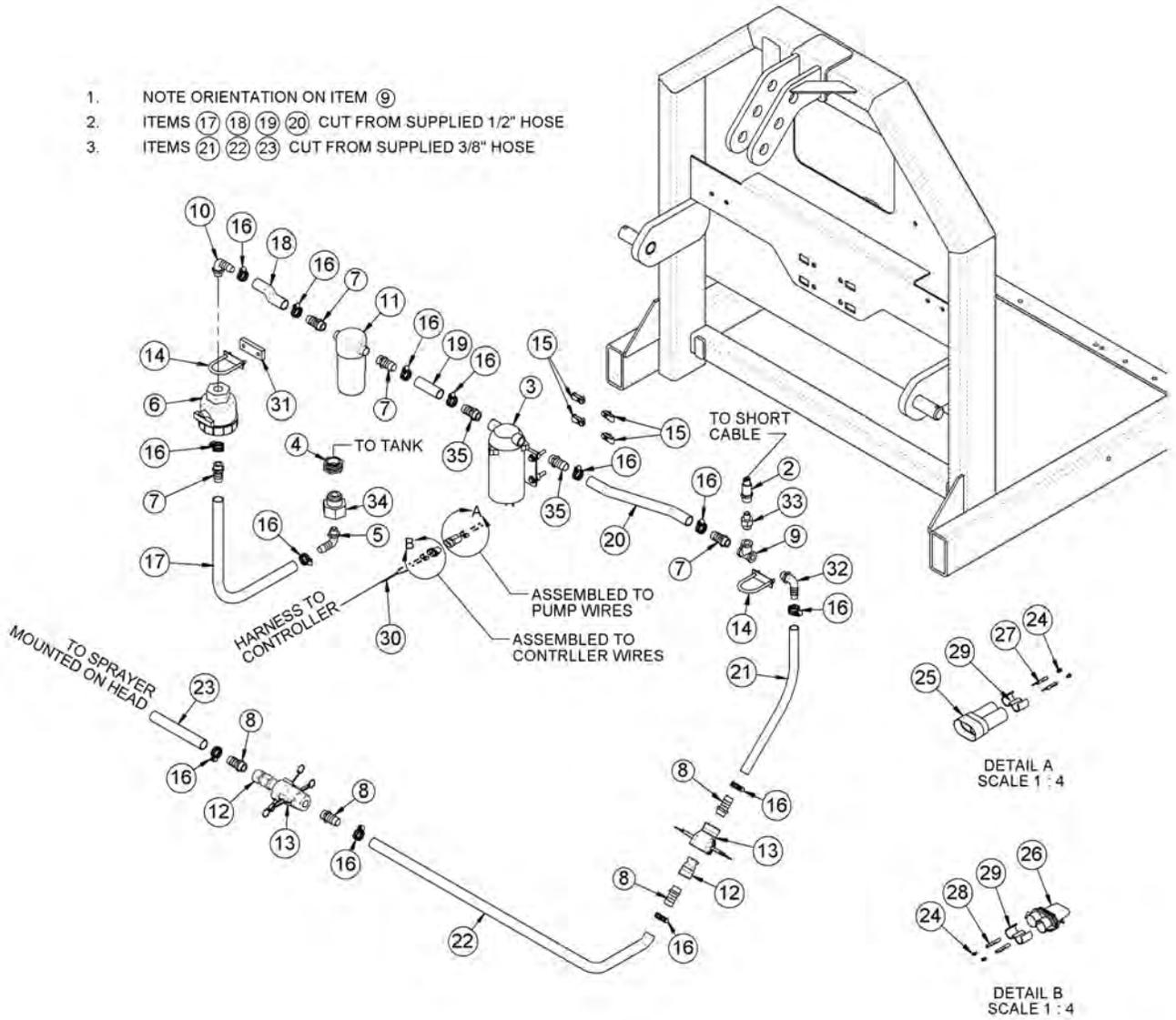
INSTALL ITEM 2 INTO ITEM 1 FIRST



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



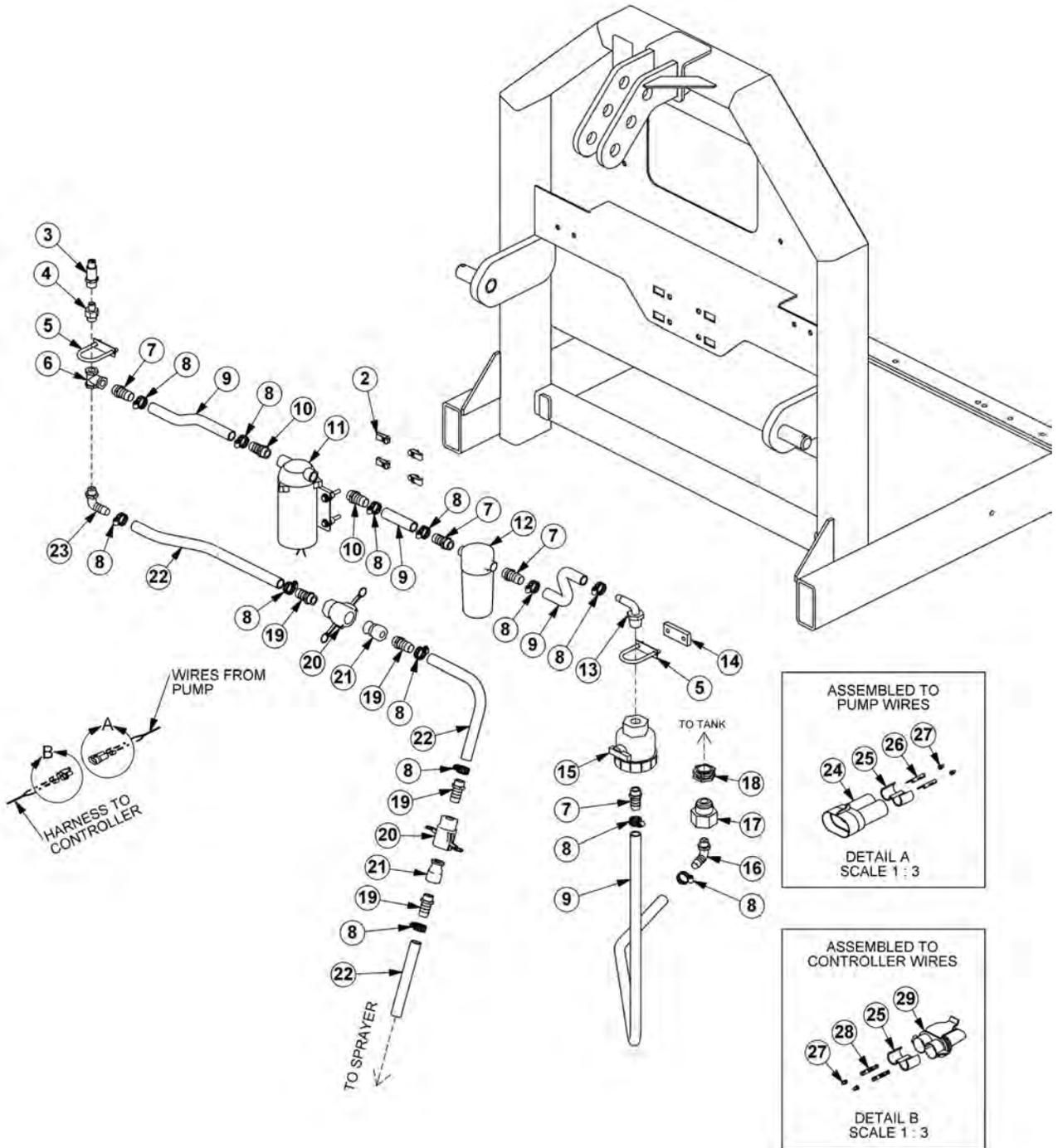
WETCUT 3PNT PLUMBING - 50IN MOWERS

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

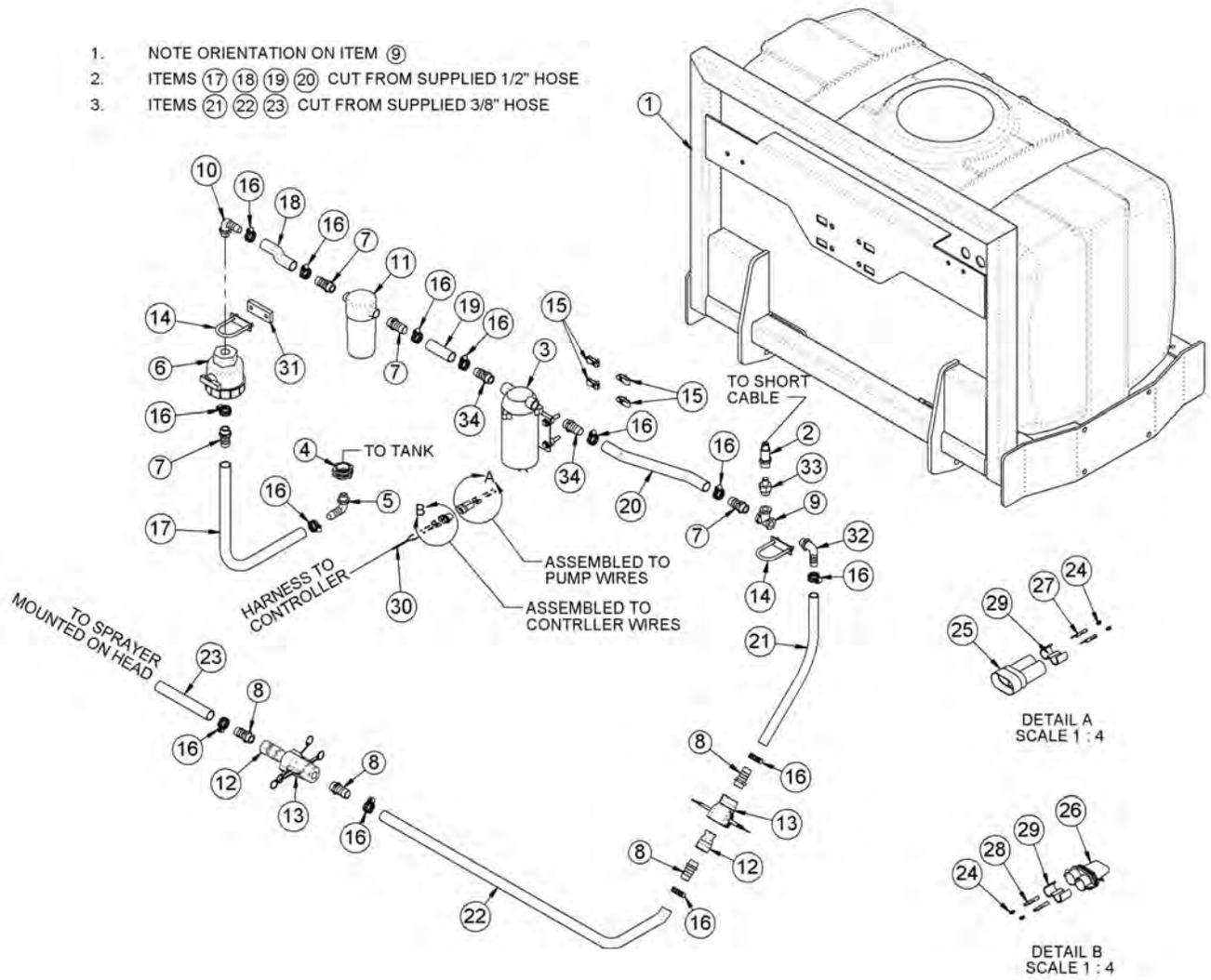
Continued...

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



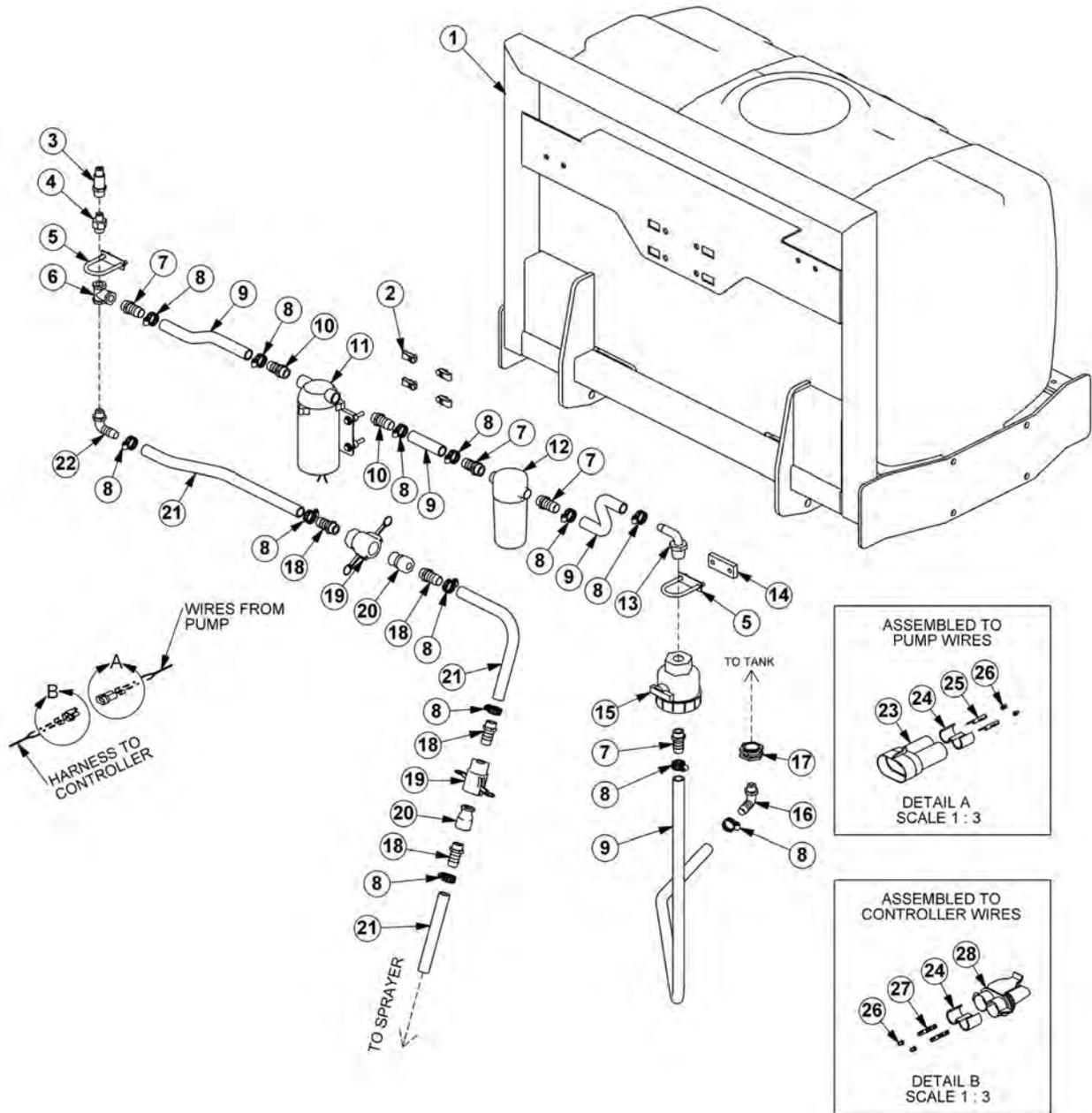
WETCUT FRONT PLUMBING - 50IN MOWERS

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



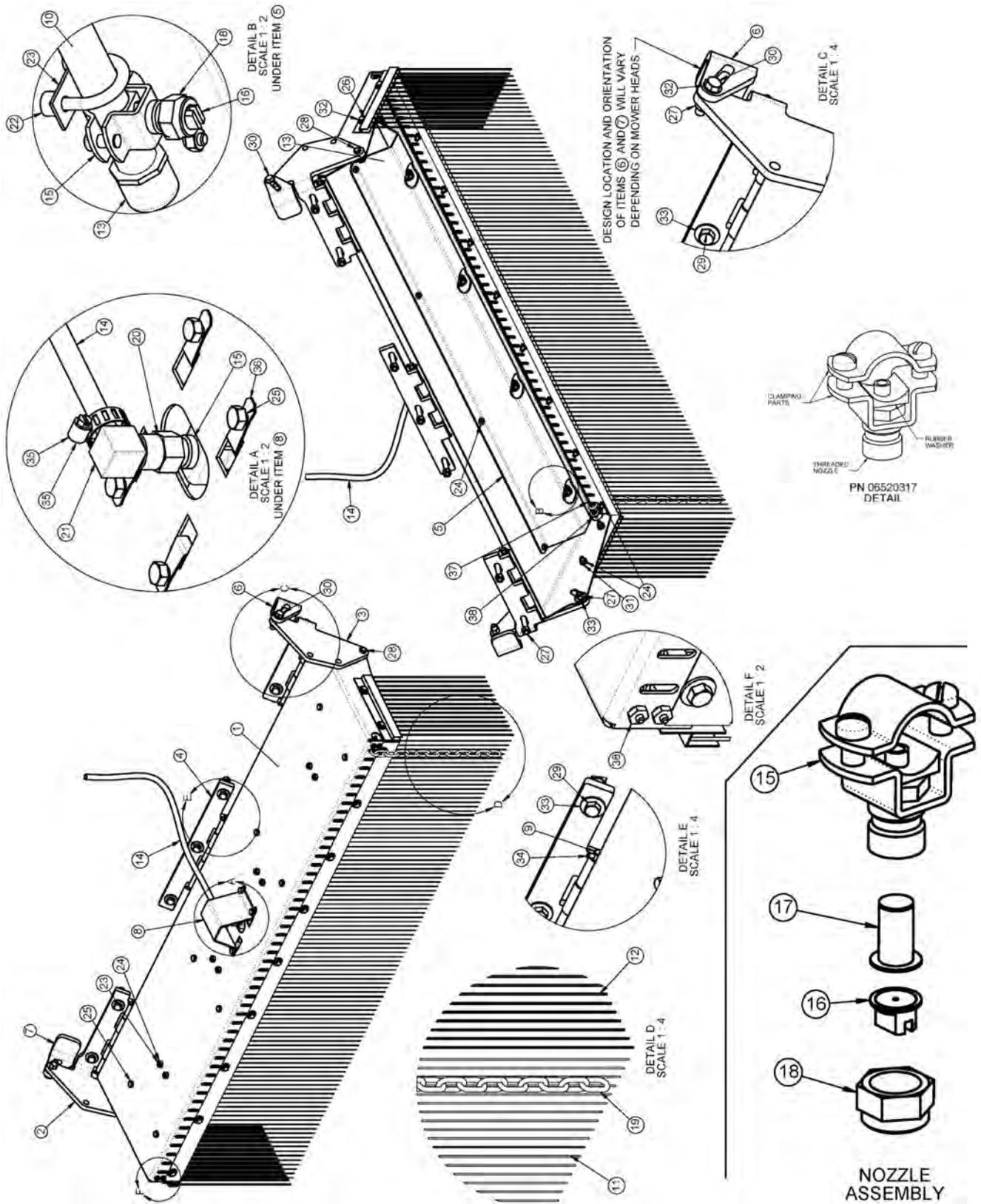
WETCUT FRONT PLUMBING - LARGER MOWERS

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



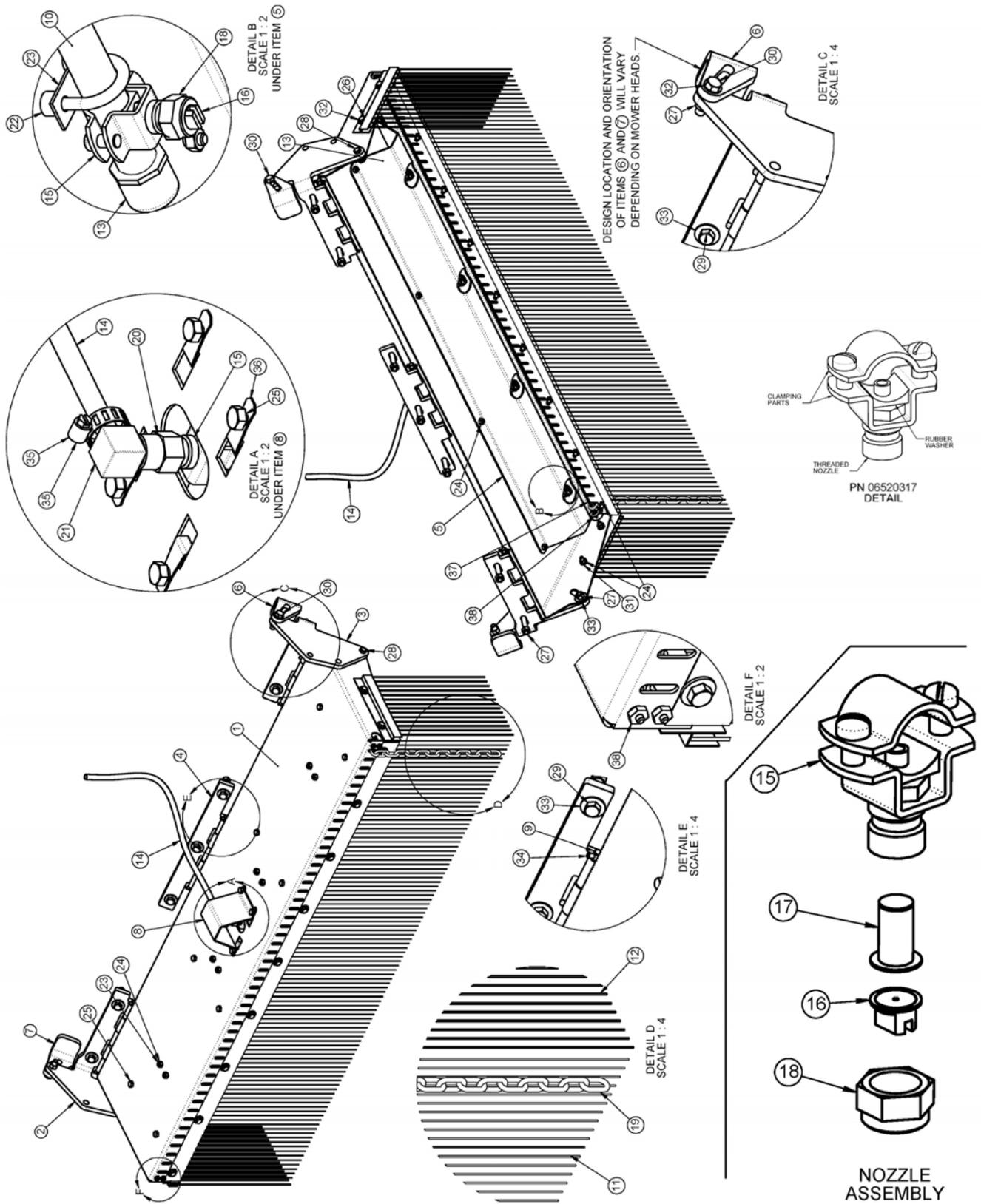
WETCUT 50IN SPRAYER HEAD ASSEMBLY

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



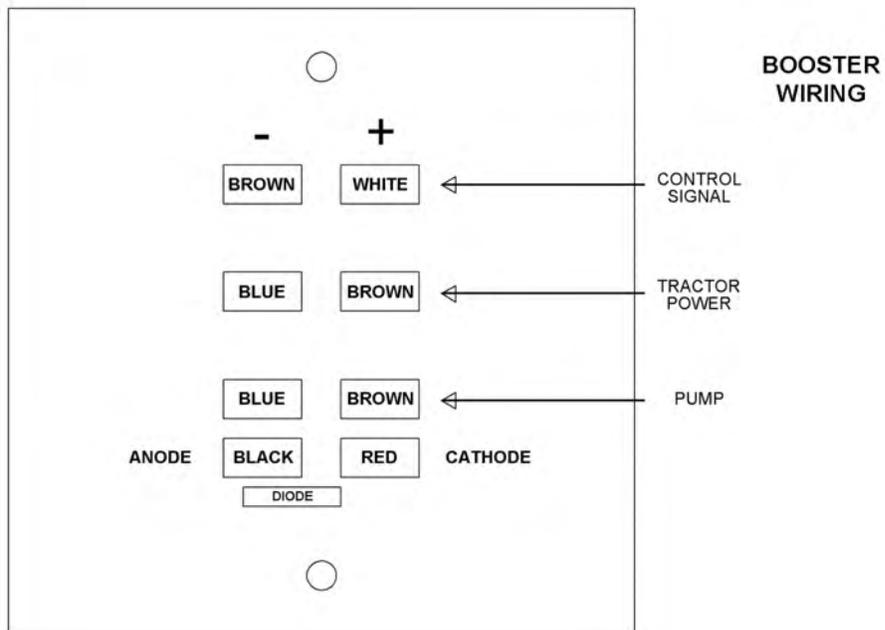
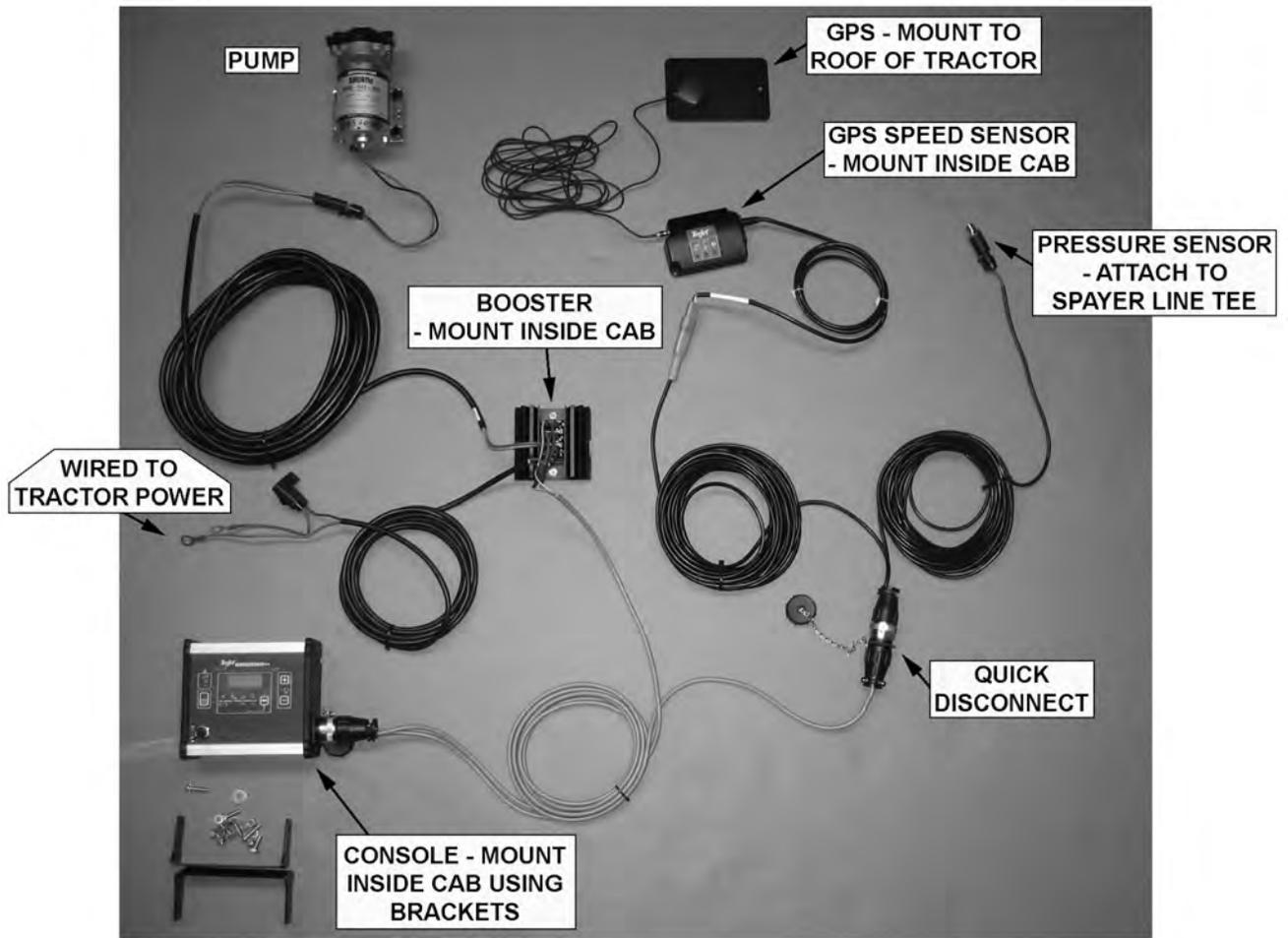
WETCUT 60IN SPRAYER HEAD ASSEMBLY

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!**



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

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

TO THE OWNER / OPERATOR / DEALER



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

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

OWNER REQUIREMENTS:

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

OPERATOR REQUIREMENTS:

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



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