



BENGAL BRUTE ASSEMBLIES

JD6xxxD

Current as of 10/18/2013



PARTS LISTING WITH
MOUNTING AND OPERATING
INSTRUCTIONS

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

06011023

TO THE OWNER / OPERATOR / DEALER

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

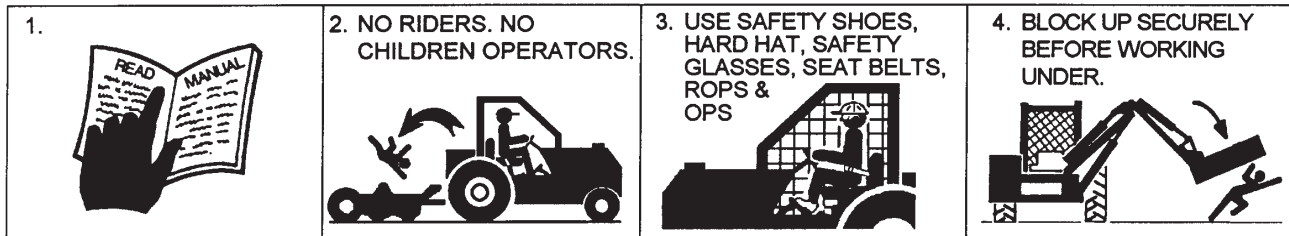
BEFORE YOU START!! Read the safety messages on the implement and shown in this manual. Observe the rules of safety and use common sense!

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



DANGER

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



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

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

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

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

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

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

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

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

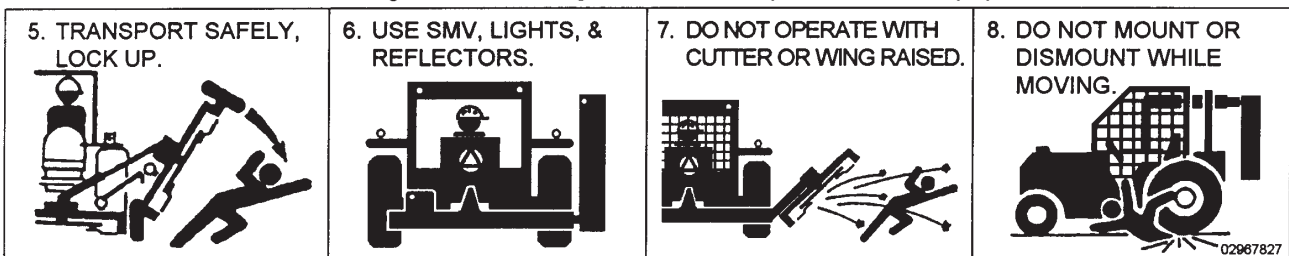
6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

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

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

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

- Never mount or dismount a moving vehicle. Crushing from rollover may cause serious injury or death.



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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.

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

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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

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

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

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



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

CAUTION!



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

WARNING!



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

DANGER!



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

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

SAFETY INSTRUCTIONS

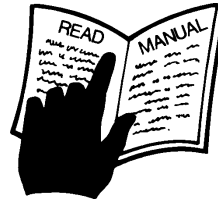


SAFETY

PELIGRO!



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

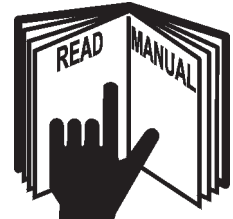


¡ LEA EL INSTRUCTIVO!

DANGER!



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



WARNING!

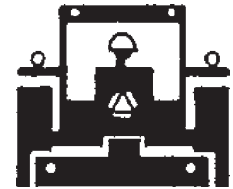


Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. *UI /7+

WARNING!



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



WARNING!



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



WARNING!

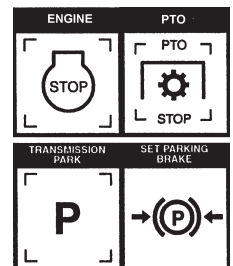


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. *UI /:+

DANGER!



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



SAFETY

DANGER!



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

*****UI /32+



DANGER!



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

*****UI /33+



WARNING!



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

34+

*****UI /



DANGER!



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

*UI /35+



DANGER!



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

***UI /36+



DANGER!



Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure.

***UI /37+

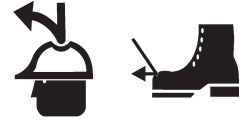


SAFETY

WARNING!



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



CAUTION!



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



WARNING!

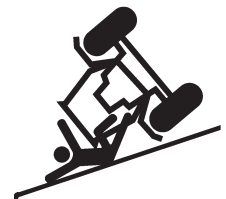


Transport only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.



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

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



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

SAFETY

WARNING!



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

*****UI /42+

WARNING!



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



WARNING!



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



DANGER!



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

*UI /45+

DANGER!



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

*****UI /46+



DANGER!



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

SAFETY

DANGER!



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



DANGER!



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

WARNING!



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

DANGER!



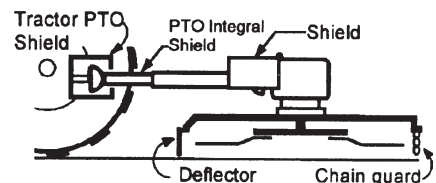
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless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



DANGER!



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



SAFETY

DANGER!



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

WARNING!



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



WARNING!



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

WARNING!



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

WARNING!



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

WARNING!



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



DANGER!



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

SAFETY

WARNING!



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

DANGER!



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

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



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



DANGER!



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

DANGER!



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



WARNING!



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



WARNING!



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

“Wait a minute...Save a life!”

SAFETY

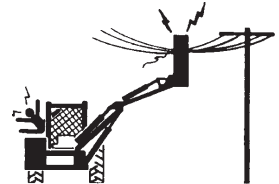


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to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

DANGER!



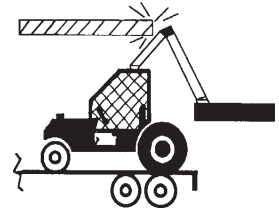
Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation. *UDO /9+



DANGER!



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



DANGER!



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



DANGER!



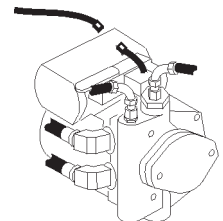
Each Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you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



DANGER!



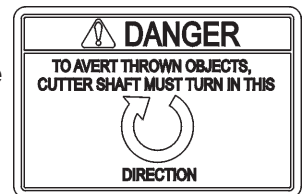
Always disconnect the wire leads from the mower pump solenoid before performing service on the Tractor or Mower. Use caution when working on the Tractor or Mower. Tractor engine must be stopped before working on Mower or Tractor. The Mower Blades could inadvertently be turned on without warning and cause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



DANGER!



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



SAFETY

WARNING!



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

WARNING!



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

Tiger mowers use balanced and matched system components for blade carriers, blades, cutter-shafts, knives, knife hangers, rollers, drive-train components and bearings. These parts are made and tested to Tiger specifications. Non-genuine “will fit” parts do not consistently meet these specifications. The use of “will fit” parts may reduce mower performance, void mower warranties and present a safety hazard. Use genuine Tiger mower parts for economy and safety.

SEE YOUR  DEALER

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

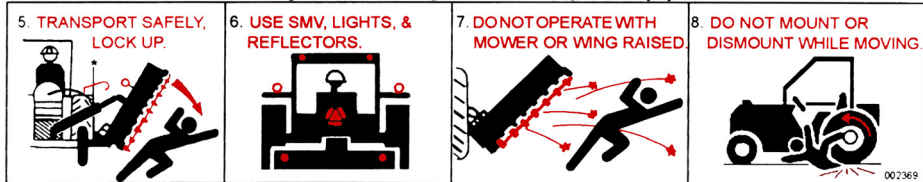
SAFETY

DANGER

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

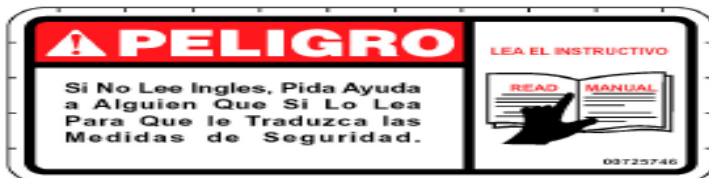


- Study and understand Operator's Manuals, Safety Signs, and Instructional Decals for tractor & flail mower to prevent misuse, abuse, & accidents. Practice before operating mower in a confined area or near passersby.
 - Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially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



PART NO.
LOCATION


002369
HYDRAULIC TANK




00725746
INSIDE OF CAB

DANGER

THROWN OBJECTS



CUTTING BLADES



KEEP AWAY - ROTATING BLADES

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

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

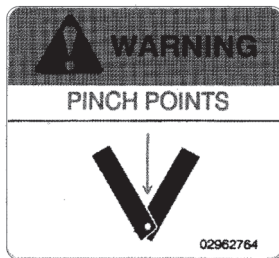
00769737
MOWER DECK

SAFETY



PART NO.
LOCATION

00758194
MOWER DECK



02962764
MAIN BOOM, SECONDARY BOOM, MAIN FRAME



02962765
MAIN FRAME

02965262
HYDRAULIC TANK

SAFETY

DANGER

CUTTING BLADES



THROWN OBJECTS



PART NO.
LOCATION

02967668
MOWER DECK

KEEP AWAY - ROTATING BLADES

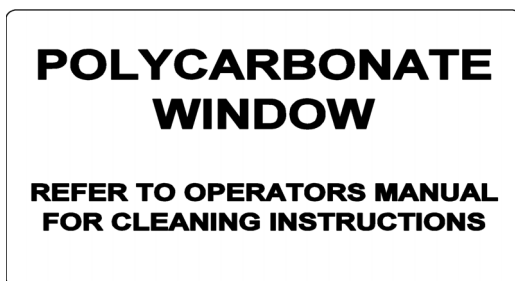
BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH

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

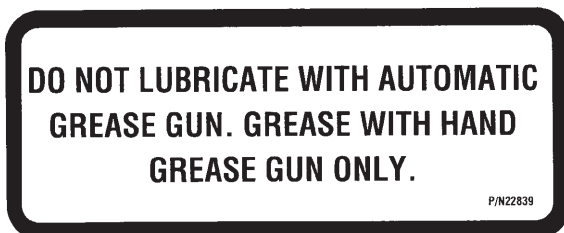
02971123
HYDRAULIC TANK



03200285
OUTSIDE OF CAB



22645
INSIDE OF CAB



22839
MOWER DECK

SAFETY



PART NO.
LOCATION

22840
INSIDE OF CAB



24028
MOWER DECK

25387
INSIDE OF CAB



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

SAFETY

WARNING

Valve section TF3009 with detented float to be used with only Boom Flail mower. DO NOT operate a Boom rotary mower with the float section installed.

P/N 27001

PART NO.
LOCATION

27001
INSIDE OF CAB

LOCK

↑

TRAVEL LOCK

↓

UNLOCK

31935

31935
INSIDE OF CAB

DANGER

- EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POUNDS CONTACT WITH THE SURFACE TO PREVENT LATERAL INSTABILITY AND POSSIBLE TIP-OVER WITH BODILY INJURY. WIDEN WHEEL TREAD AND ADD WEIGHTS IF NEEDED. SEE MANUAL OR CALL TIGER CUSTOMER SERVICE FOR COUNTERWEIGHT PROCEDURE.
- TRANSPORT CAREFULLY! SLOW DOWN EVEN MORE ON SLOPES AND WHEN TURNING; NEVER TURN UP A SLOPE SHARPLY OR AT HIGH SPEED; AND USE EXTRA CARE IN ROUGH OR BUMPY AREAS TO PREVENT OVERTURN AND POSSIBLE CRUSHING INJURY OR DEATH. IF YOUR VIEW TO THE REAR IS BLOCKED, IT IS YOUR RESPONSIBILITY TO INSTALL MIRRORS THAT PROVIDE A REAR VIEW TO PREVENT ACCIDENTS FROM BLIND SPOTS.
- REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS ON FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL, AND POSSIBLE INJURY.
- NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD TRIMMING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.
- KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.
- WHEN TRANSPORTING BOOM MOWERS ON A TRUCK OR TRAILER, THE HEIGHT OR WIDTH MAY EXCEED LEGAL LIMITS. CONTACT WITH SIDE OR OVERHEAD STRUCTURES OR POWER LINES CAN CAUSE SERIOUS INJURY OR DEATH. LOWER BOOM TO REDUCE HEIGHT AND/OR REMOVE MOWING HEAD TO REDUCE WIDTH TO THE LEGAL LIMITS, IF NEEDED.

32707

32707
HYDRAULIC TANK

DANGER

TO AVERT THROWN OBJECTS,
CUTTER SHAFT MUST TURN IN THIS

↻

DIRECTION

42350

42350
MOWER DECK

SAFETY

ATTENTION

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

32708

PART NO.
LOCATION

32708
HYDRAULIC TANK

CAUTION

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

32709

32709
INSIDE OF CAB

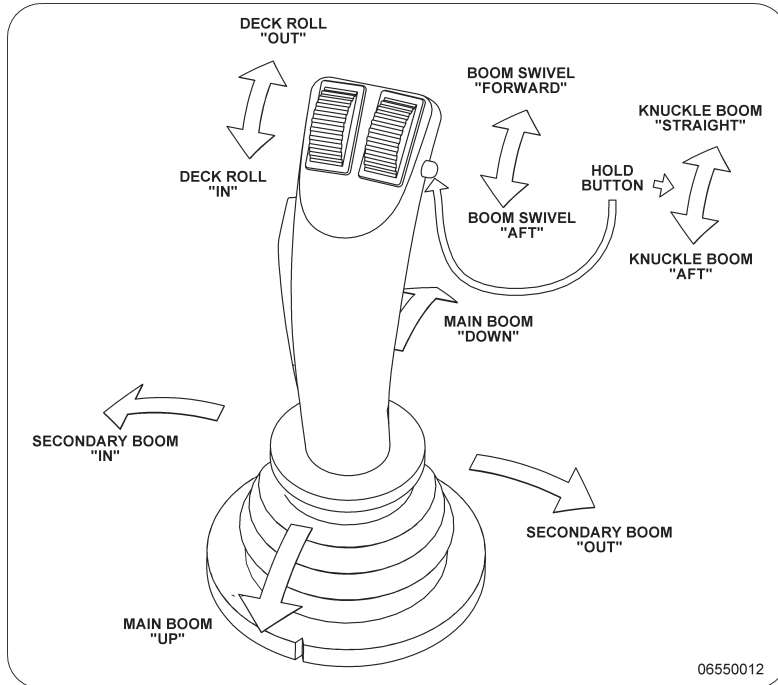
33224
MOWER DECK

Tiger™

33438
MAIN BOOM

SAFETY

PART NO.
LOCATION



06550012
INSIDE OF CAB

MOWING SAFETY TIPS

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

Tiger

33743

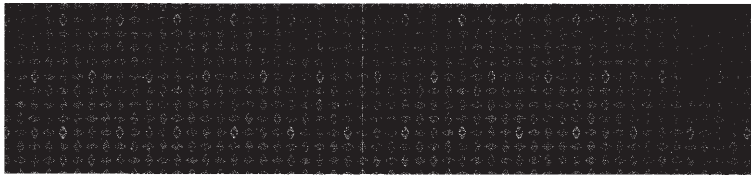
33743
INSIDE OF CAB

SAFETY

PART NO.
LOCATION



RED 42399
REFLECTIVE TAPE
MOWER DECK



AMBER 4240006
REFLECTIVE TAPE
MOWER DECK



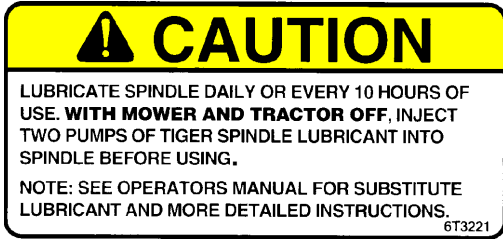
6T3217
MOWER DECK



6T3219
INSIDE OF CAB

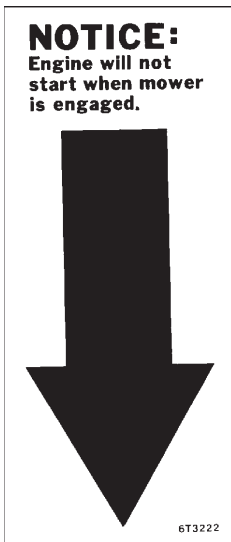
6T3220
FRONT PUMP MOUNT

SAFETY



PART NO.
LOCATION

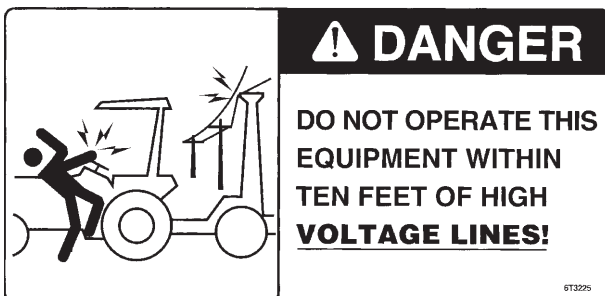
6T3221
INSIDE OF CAB



6T3222
INSIDE OF CAB

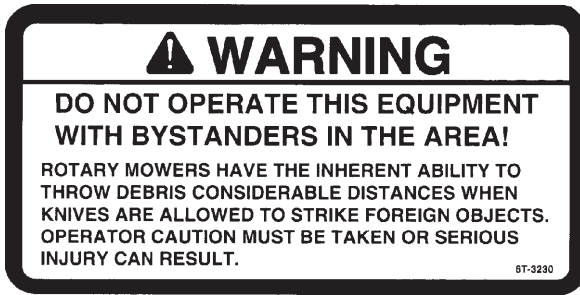


6T3224
MOWER DECK



6T3225
INSIDE OF CAB

SAFETY



PART NO.
LOCATION

6T3230
INSIDE OF CAB



6T3231
INSIDE OF CAB



6T3233
HYDRAULIC TANK



6T3234
INSIDE OF CAB



6T3236
MOWER DECK

SAFETY

⚠ WARNING

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

6T-3237

6T3237

PART NO.
LOCATION
6T3237
INSIDE OF CAB

<p>DOWN ↑ MAIN BOOM ↓ UP</p>	<p>OUT ↑ SECONDARY BOOM ↓ IN</p>	<p>OUT ↑ DECK ROLL ↓ IN</p>	<p>CLOSE ↑ SHIELD ↓ OPEN</p>	<p>FORWARD ↑ SWIVEL ↓ AFT</p>	<p>IN ↑ SWITCH / KNUCKLE ↓ OUT</p>
--	--	---	--	---	--

06550008
INSIDE OF CAB

<p style="text-align: center;">⚠ WARNING</p> <p style="font-size: x-small;">IT IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED. REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FAILURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH.</p>	<p style="text-align: center;">IMPORTANT</p> <ul style="list-style-type: none"> • WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. • SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS. <p style="text-align: right; font-size: x-small;">6T-3243</p>
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6T3243
INSIDE OF CAB

GREASING INSTRUCTIONS

CUTTER SHAFT BEARING

GREASE EVERY 8 HRS. OR DAILY

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

6T3249A

6T3249A
MOWER DECK

GREASING INSTRUCTIONS

GROUND ROLLER BEARING

GREASE EVERY 8 HRS. OR DAILY

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

6T3261

6T3261
MOWER DECK

SAFETY



TB1011
MOWER DECK



Tiger Corporation

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

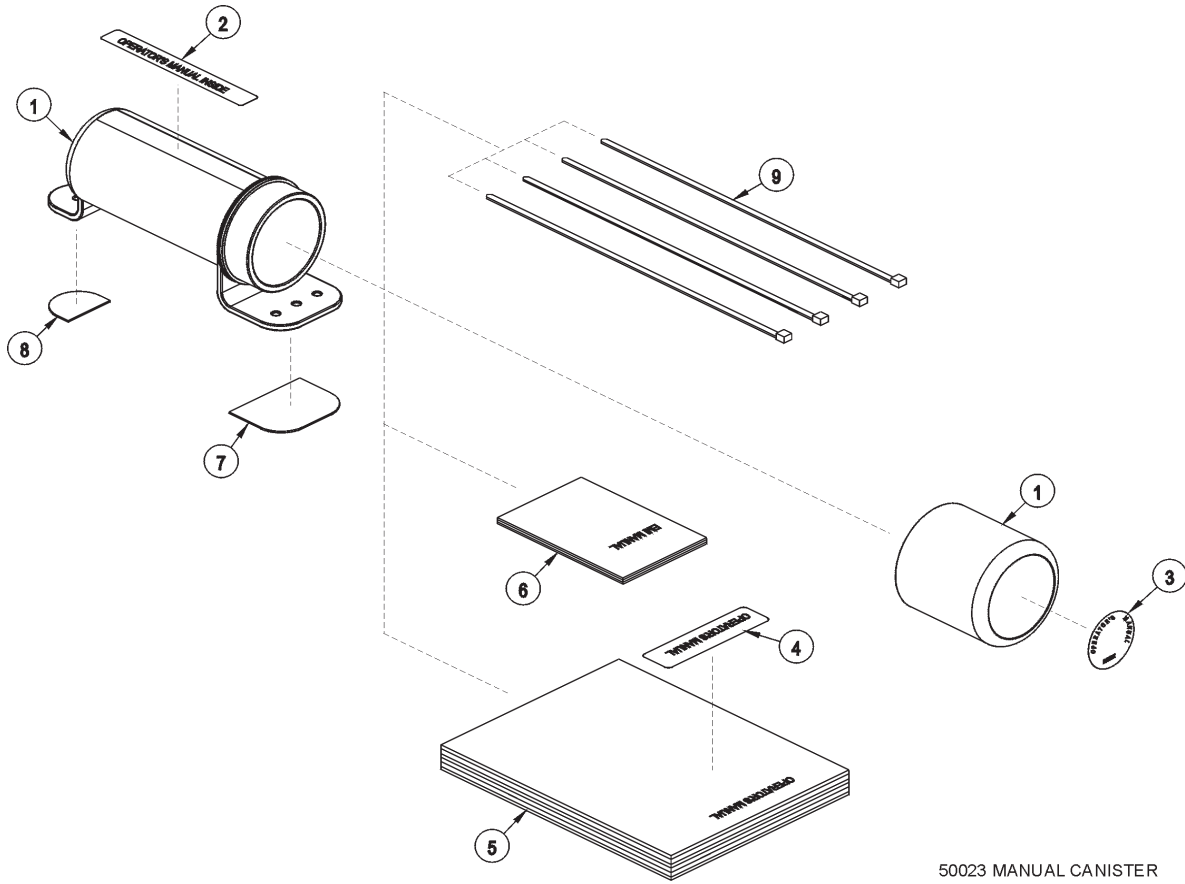
Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics Cold Temperatures 0°F Start-up Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 Anti-Wear/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

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

Tiger PN 34852

34852
HYDRAULIC TANK

SAFETY



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

NOTE:

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

SAFETY

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

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

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

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

OSHA Regulations

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

Employer Responsibilities:

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

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

Child Labor Under 16 Years of Age

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

SAFETY

ASSEMBLY SECTION

ASSEMBLY

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

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



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

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

TRACTOR PREPARATION

- A. 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)

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

CRANKSHAFT ADAPTER

For JD6xxxD tractors with a front pump mount, install the John Deere pulley kit P/N: LVB24989 and follow the instructions. *(ASM-JD-0250)*

DRIVESHAFT AND FRONT PUMP MOUNTING

Thread the pump drive shaft into the crankshaft adapter.

Slide splined drive shaft coupler onto the pump driveshaft. Install the pump onto the mounting bracket. **NOTE:** the pump is offset to one direction, the pump should be installed with the offset side on top. Install hardware for securing pump to the pump mount, **DO NOT** tighten.

Install pump and align so that splined coupling can be moved (FREE PLAY) back and forth by hand. Rotate coupler and check free play every 1/4 turn. Tighten pump mounting bolts in succession, rechecking for spline coupling free play. Remove the pump mounting bracket bolts one at a time and apply a thread locking agent. Tighten these bolts in succession, again checking for free play in the driveshaft. After all bolts are torqued, the end play on the driveshaft should be 1/16" to 1/8", and coupler should move freely with hand pressure. If end play is less than 1/16", grind the end of the shaft to achieve the proper end play. If there is more than 1/4" of end play, return the shaft with specifications for a longer shaft.

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



ASSEMBLY

REAR PUMP MOUNTING

Install the Pump Mounting Bracket onto the rear of the tractor. Secure the Pump Mounting Bracket with the supplied hardware. Refer to the Parts Section.

Slide splined driveshaft sprocket onto the tractor PTO. Install the chain onto the drive shaft Sprocket. Install the pump sprocket onto the pump. Install the pump onto the Pump Mounting Bracket and secure. Line up both sprockets and tighten with set screws onto respective shafts. NOTE: the pump body is offset, and the pump should be installed with the offset side down. Install hardware for securing pump to the pump mount, DO NOT tighten.

Remove the pump mounting bracket bolts one at a time and apply a thread locking agent. Tighten these bolts in succession.

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



ADJUSTING REAR WHEELS

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

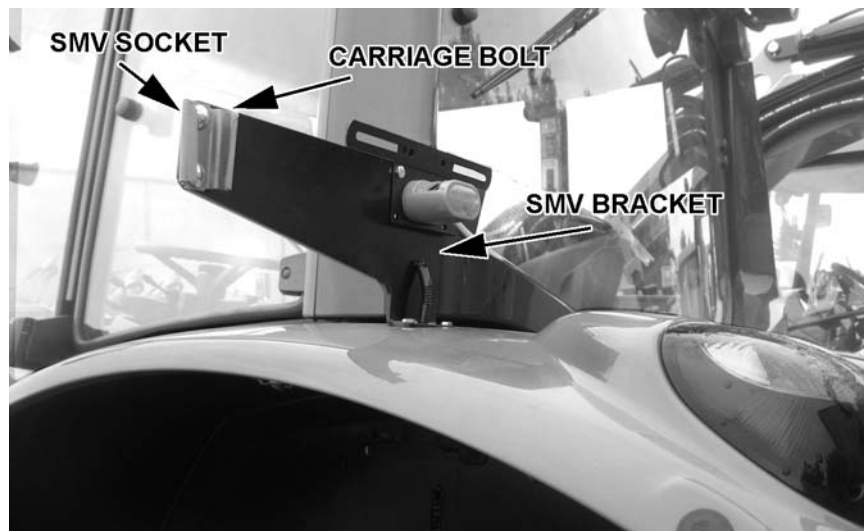
NOTE: Installing a boom mower requires that all right side windows be replaced or shielded by a lexan safety window. In most cases this should be done before mounting the mainframe. Carefully remove the existing right side cab windows, to be replaced with the matching polycarbonate windows provided.

Clean all of the surfaces around the window opening, once the right side windows are removed. Peel back the protective paper from the area around the window that will contact the window frame. Apply a bead of urethane window adhesive, supplied in kit, around the window opening. Carefully position the new window into position. Fill the remainder of the gap around the window with the adhesive to finish. Be sure to follow the instructions on the adhesive label when installing window.

Next, install the upper and lower door hinges along with the existing cab door hinges. To do this, you will remove the existing hinge hardware and install the existing hardware on the polycarbonate as shown in the Parts Section. Set the safety screen assembly on the hinges and attach the door to the tractor frame. Install the brackets with the hardware shown in the Parts Section. Assemble the rod with the vibration isolator and nuts and attach them to the brackets. Adjust the vibration isolator on the upper and lower brackets to achieve a good fit with the window. (ASM-JD-0061)

SMV BRACKET FOR LRS APPLICATIONS

Attach the SMV bracket to the left fender as shown to ensure the visibility of the sign while the mower is stowed in the boomrest. (ASM_JD_LRS_001)



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

Cover all wires with plastic wire wrap provided. Route the green wires along switchbox bracket and cab frame to the steering wheel console. Route the rest of the wires along the base of the right hand console and up to the rubber boot in the bottom right corner in the rear window of the cab. The red and black wires will be connected to the auxillary power plug in the back of the cab. After all wiring is complete, secure all wires to the console with zip ties and push mounts. Take up most of the slack so the wires are out of the way and tighten the zip ties.

With the panel under the steering wheel removed to access the wires, locate the brown wire and verify that this is the neutral safety wire with a test light or meter. Then cut the brown wire and connect a green wire from the switchbox to each end of the brown wire as shown in the wiring diagram. Cut a small hole for the green wires and the wire wrap to fit through and replace the console.

The red and black wires access power for the switchbox through a John Deere auxillary power plug in the rear of the cab.

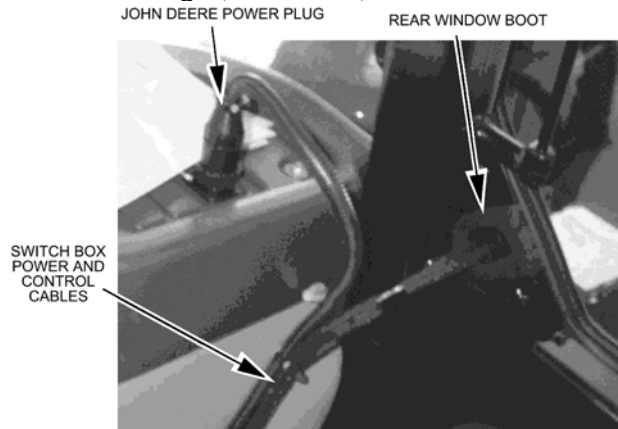
NOTE: The RED wire from the JD power plug should not be used because it is ALWAYS "Hot". +12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THE RED WIRE MUST BE FUSED AT THE SOURCE LOCATION WITH A CLOSED END CONNECTOR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

Connect the red wire from the switchbox to the orange wire from the JD power plug. Connect the black wire from the switchbox to the black wire from the JD power plug.

Two sets of wires have Metri-Pak ends on them. The white and black wires plug into the brake valve. The orange and black wires plug into the travel lock.

Cut a crosshair pattern in the rubber boot in the right bottom corner of the rear window. The wires can be routed through and the rubber falls back into position. The hole should only be large enough for the wires to go through easily.

Route the Metri-Pak wires from the window boot to their location on the unit. Coil the excess wire and secure it to the tractor frame with zip ties to eliminate vibration and rubbing. (ASM-JD-0078)



34538 - CLOSED END CONNECTOR



NOTE: When cutting or drilling a hole, be sure not to damage existing wires running behind panels.



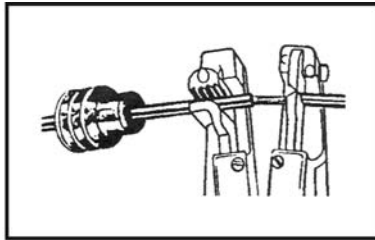
ASSEMBLY

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.

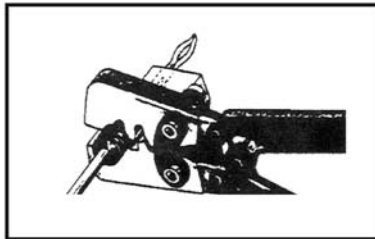
(ASM-C-0009)



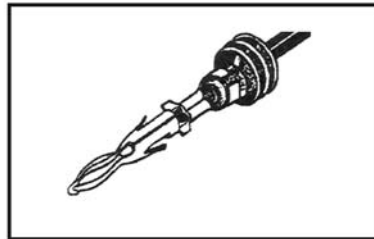
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



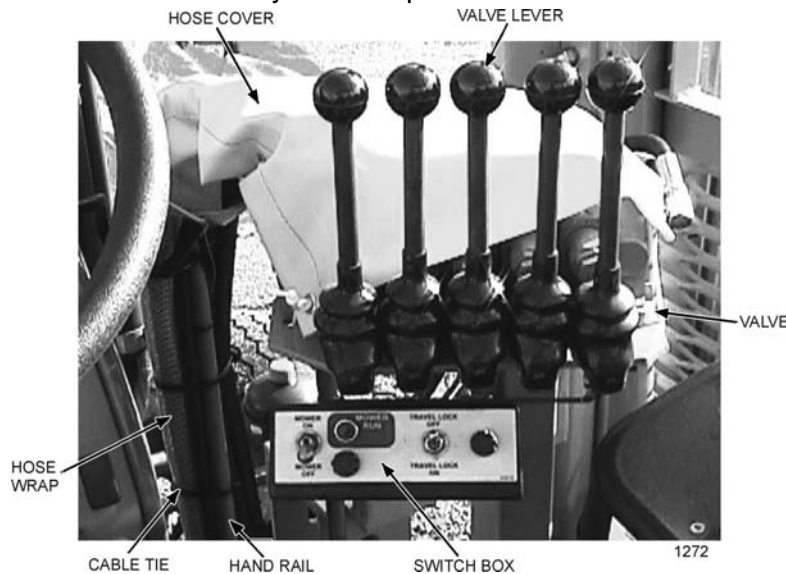
3. Put terminal in crimping tool, then position wire and seal in place.



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

MANUAL SWITCHBOX MOUNTING

The switchbox is to be secured to the operator's side of the control handles, or valve stand. Refer to the Parts Section for assembly and components needed.



(ASM-C-0053)

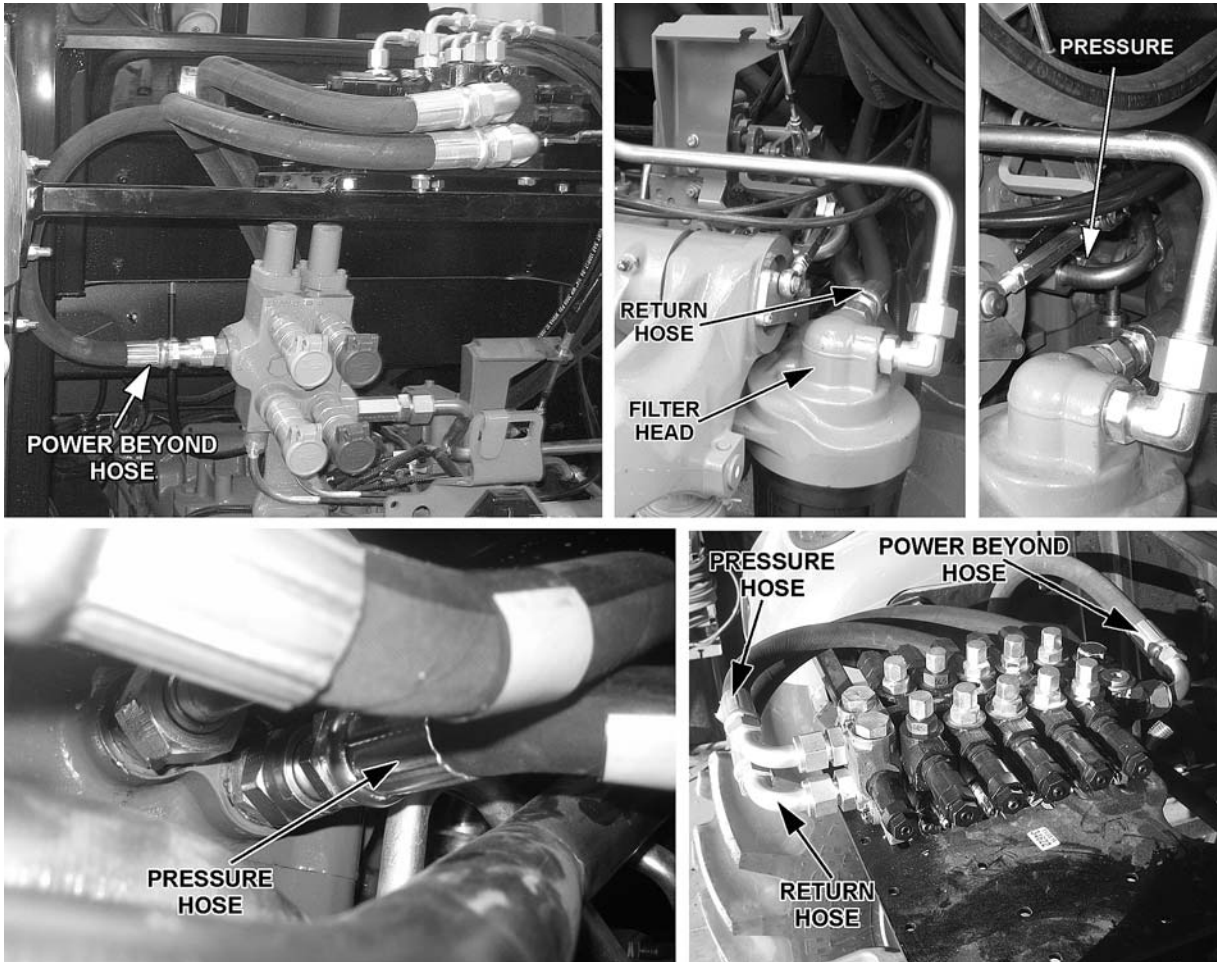


ASSEMBLY

TRACTOR PLUMBING

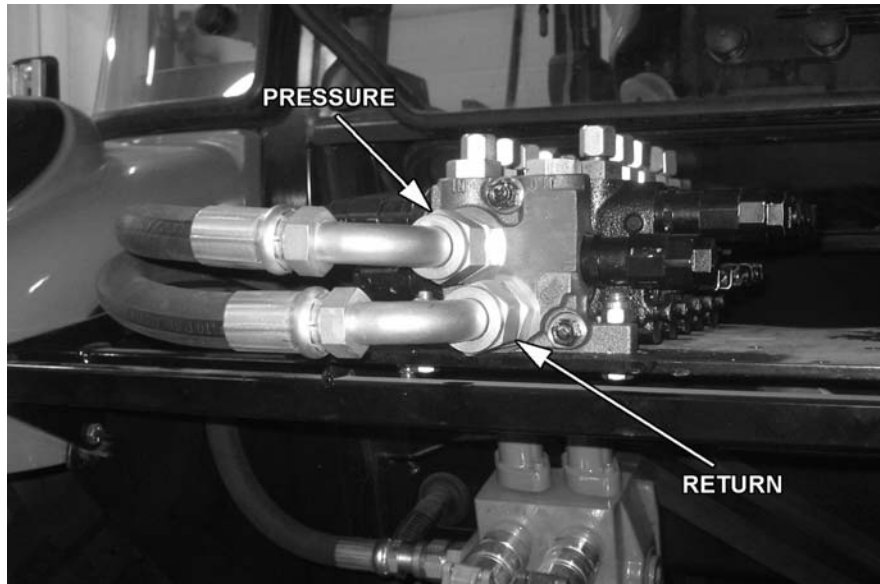
Remove the stock pressure line to the remote valve. It will be necessary to temporarily remove other hoses and tubes that block access to connect the hoses. Install the pressure hose to the tractor pressure port. Install hose #06500783 from the power beyond port of the lift valve to the tractor SCV valve. Install pressure hose #06500782 from the tractor pressure on the side of the tractor to the upper port on the lift valve inlet. Install return hose #06500782 from lower port on lift valve inlet to the return filter on the tractor. See the Parts Section for parts used.

(ASM-JD-0242 6xxxD)



ASSEMBLY

MANUAL LIFT VALVE PORTS

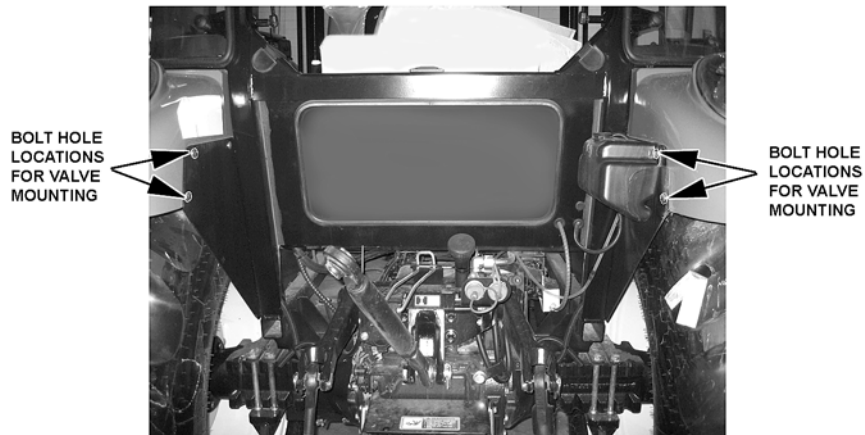


(ASM-C-0102 JD6xxxD)

VALVE MOUNTING

Attach the rear valve mounting bracket to the fender of the tractor by removing the two rear bolts on the left fender and the two rear bolts on the right fender. See illustration below. Drill the square holes in the fenders to accept 3/8" capscrews. Use the hardware noted in the Parts Section to attach the valve mounting bracket to the tractor.

Next, attach the valve mounting plate to the mounting bracket. Align the holes on the plate to the holes on the bracket. Use the hardware shown in the Parts Section to attach the plate to the valve mounting bracket. Finally, place the valve on the valve mounting plate as shown in the Parts Section. Align the holes on the valve assembly to the holes in the plate. Use the hardware provided to secure the valve to the plate. Refer to the Parts Section for the placement of the valve and the hardware used. **Please handle the lift valve with care. It is extremely heavy and contains small parts.** (ASM-JD-0065)



ASSEMBLY

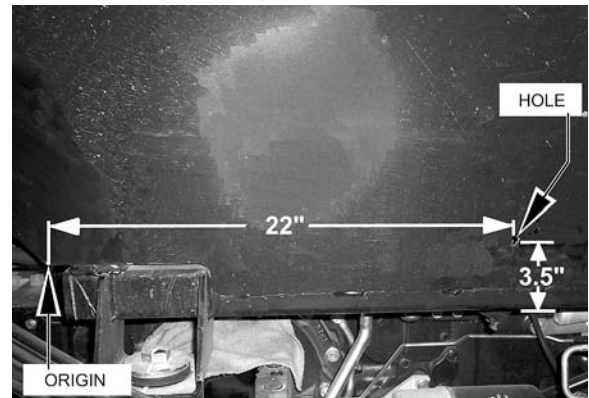
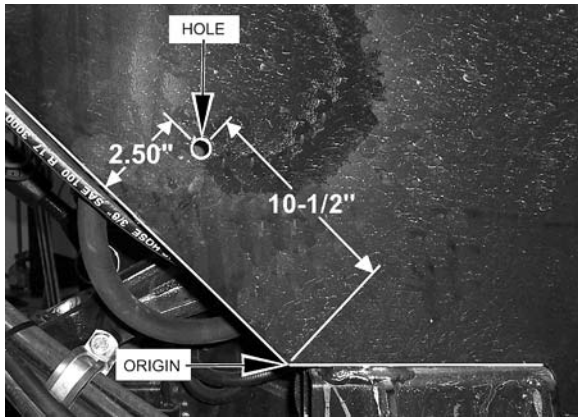
HOSE AND WIRE ROUTING

Attach two clamps to the right rear wheel well for proper hose/wire routing. Drill one hole for each clamp. Use the lower rear corner of the wheel well as an origin for measuring. The holes should be 10mm or 3/8" reamed to accept 3/8" hardware.

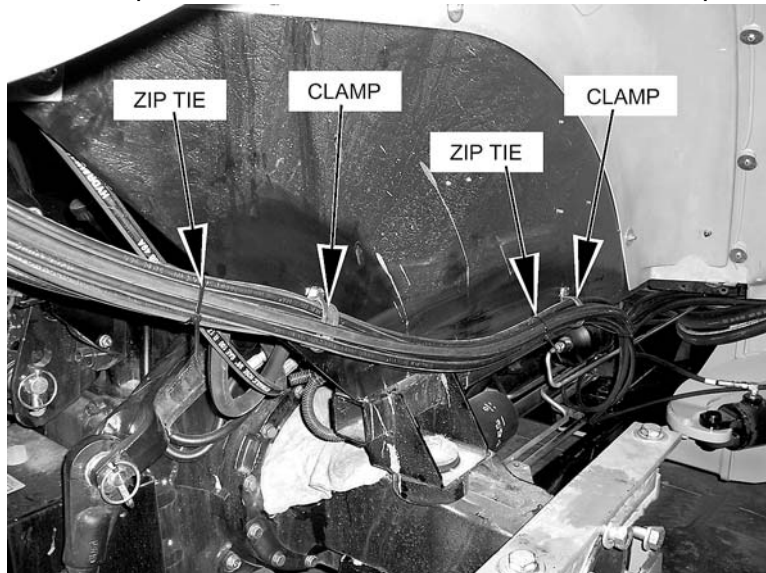
Measure along the back edge of the wheel well 10-1/2" from the origin. Use a square to measure 2-1/2" up, from the last mark. Refer to the image below to see the first hole.

The second hole should run parallel to the bottom edge of the wheel well. Mark the hole 22" from the origin and 3-1/2" from the bottom edge. Use the images below for reference.

NOTE: DO NOT CUT INTO TUBES / HOSES / WIRES WHEN DRILLING THROUGH METAL OR PLASTIC! (ASM-JD-0068)



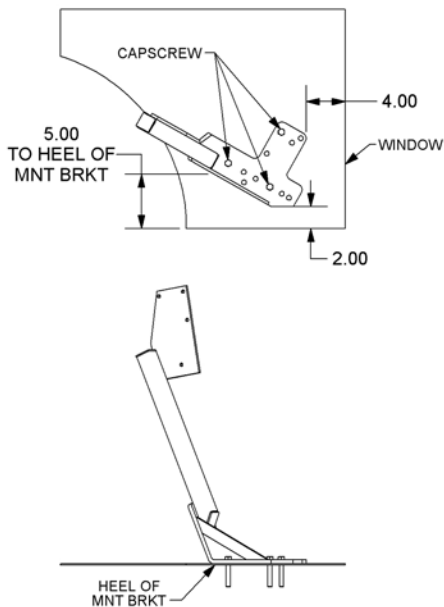
Place as many hoses in the clamp as will fit without compromising pressure. Then secure the (2) HOSE CLAMP (06520013) to the holes drilled with (1 EACH) CAPSCREW, 3/8 X 1 NC (21630) and (1 EACH) NYLOCK NUT, 3/8 NC (21627). The hoses that don't fit into the clamp are to be secured to the others with zip ties. For protection of hoses in contact with metal edges, wrap hoses with split hose sections and fasten with hose clamps or zip ties as needed.



ASSEMBLY

CABLE CONTROL LEVER STAND

Place the cable control bracket on the floor so that the bracket is 4" from the front window. Also the outer rear corner (heel) of the bracket is 5" from the edge of the door. The middle corner of the bracket should be 2" from the edge of the door. See image below. Be sure that the location of the stand will allow the operation of all control levers in the tractor and that the door will not strike the stand when shut. Double check under the cab for cables and wires that may be cut when drilling. And before drilling double check location of the stand for proper placement of holes. Drill 3 holes to match control bracket and secure with capscrews and nylock nuts noted in Parts Section.



The rubber boot under the rear window can be cut in a crosshair pattern and, if necessary, the bottom cut through to allow it to slip over the cables and back into position. These cables will be routed to the lift valve mounted on the valve mounting plate, and should not have any sharp bends or kinks in them. Secure cables with zip ties and apply RTV sealer in and around individual cables, inside and outside of the cab for a water tight seal. Do not allow excess cable to hang unsecured on the outside of the cab. (ASM-JD-0239).



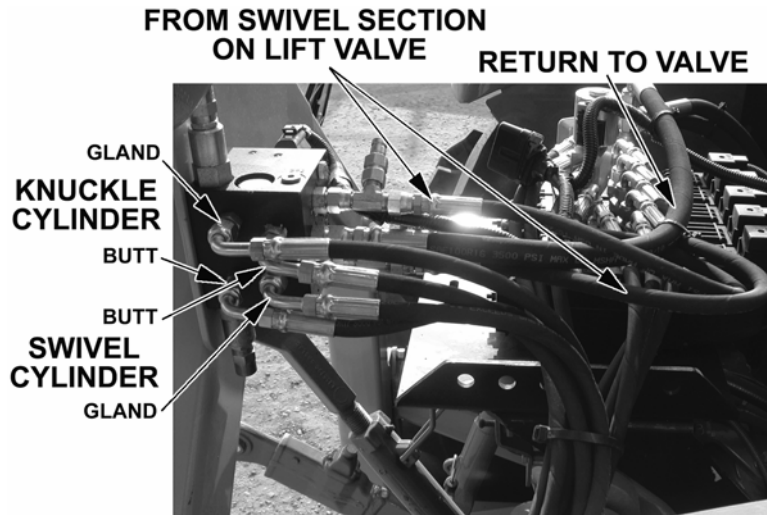
ASSEMBLY

SELECTOR VALVE INSTALLATION

NOTE: Refer to the Parts Section and illustration below for hardware and position.

The selector valve is attached to the boomrest. The 1/4" hoses from the swivel section of the lift valve are plumbed to the "A" and "B" ports on the selector valve. A run tee is added to the return section of the lift valve. Attach the 1/2" hose from the "T" port of the selector valve to the run tee on the lift valve. 1/4" hoses are attached to the "A1", "A2", "B1" & "B2" ports on the selector valve to the knuckle cylinder and swivel cylinder.

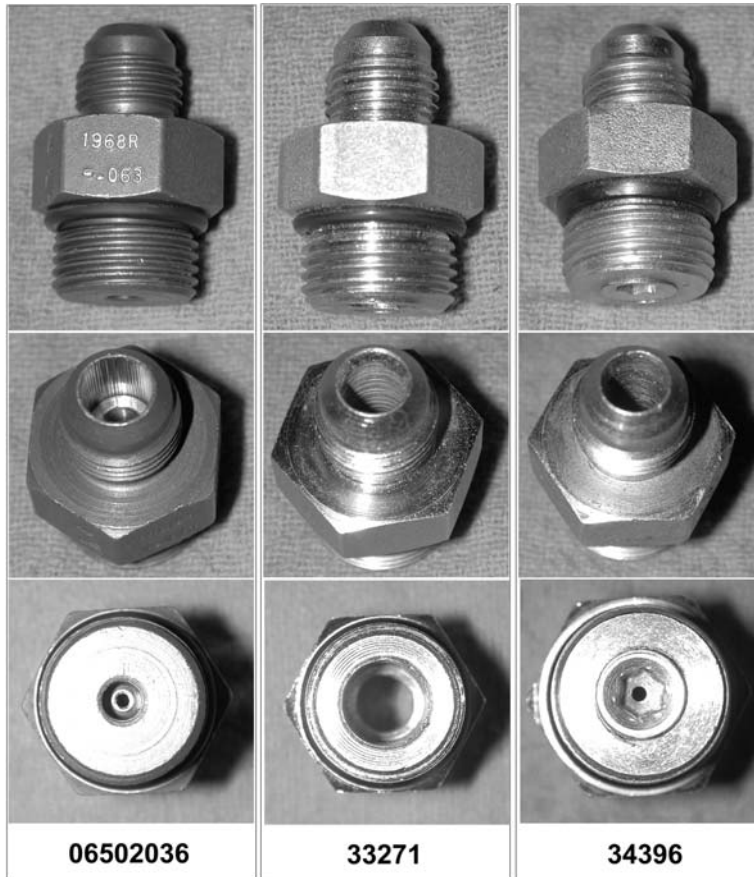
(ASM-SLCTR VLV INSTLN-0001)



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)

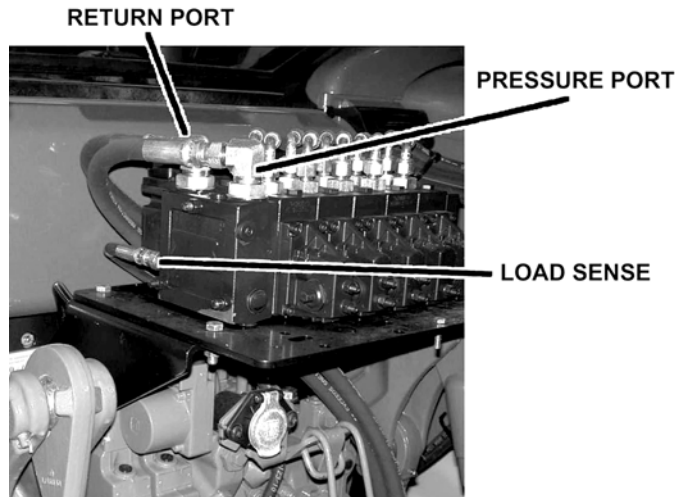


ASSEMBLY

ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)

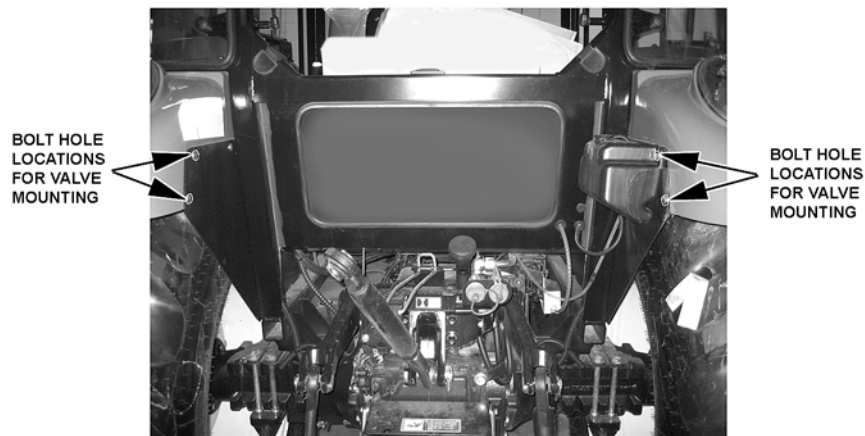
DANFOSS VALVE



VALVE MOUNTING

Attach the rear valve mounting bracket to the fender of the tractor by removing the two rear bolts on the left fender and the two rear bolts on the right fender. See illustration below. Drill the square holes in the fenders to accept 3/8" capscrews. Use the hardware noted in the Parts Section to attach the valve mounting bracket to the tractor.

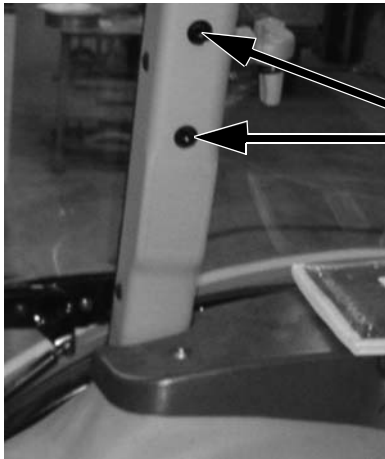
Next, attach the valve mounting plate to the mounting bracket. Align the holes on the plate to the holes on the bracket. Use the hardware shown in the Parts Section to attach the plate to the valve mounting bracket. Finally, place the valve on the valve mounting plate as shown in the Parts Section. Align the holes on the valve assembly to the holes in the plate. Use the hardware provided to secure the valve to the plate. Refer to the Parts Section for the placement of the valve and the hardware used. **Please handle the lift valve with care. It is extremely heavy and contains small parts.** (ASM-JD-0065)



ASSEMBLY

JOYSTICK CONTROL MOUNTING

The joystick is mounted to the right hand center cab post. Find the two existing bolts above the area where the post bumps out. See the image below. Mount the joystick mounting bracket to the cab post with hardware provided. Assemble the parts as shown in the Parts Section. When operating the joystick, make sure it is positioned where the rest of the controls are fully operational. (ASM-JD-0075)

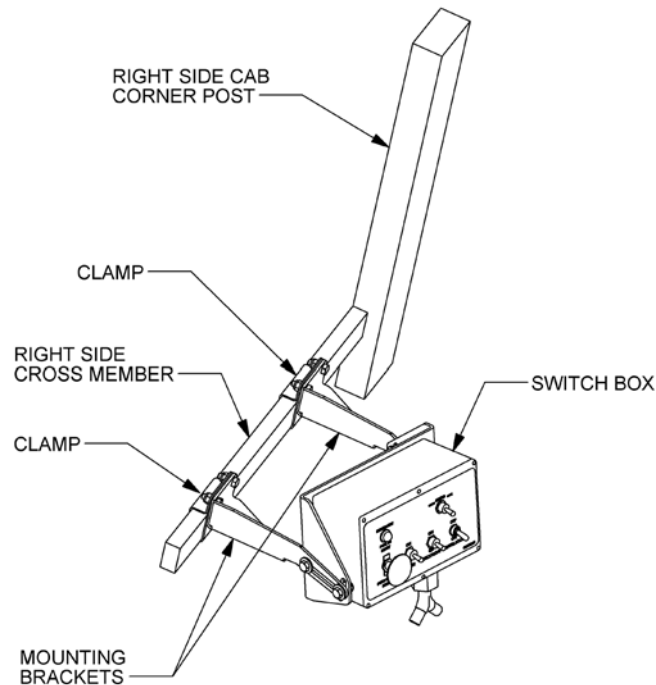


CAB POST
BOLTS



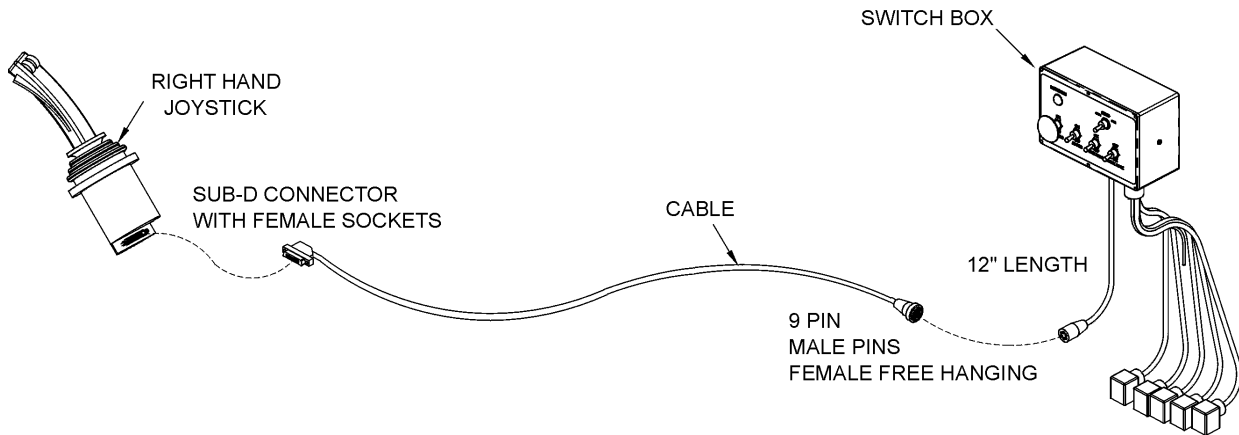
JOYSTICK SWITCHBOX MOUNTING

Locate the right side front cross member of the cab frame. Clamp the switchbox mounting brackets to the cross member. See illustration below. Mount the brackets and switchbox using the hardware supplied, as noted in the Parts Section. (ASM-JD-0020)



ASSEMBLY

BOOM JOYSTICK CONTROL CALIBRATION



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..

CAUTION The joystick control is equipped with signal adaption potentiometers.

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

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



ASSEMBLY

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

Set the dead band compensation potentiometer first.

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

Setting Signal Adaptation Potentiometers:

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

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



ASSEMBLY

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

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

“B” Port, Boom Down:6-8 Seconds

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

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

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

“B” Port, Boom In:8-10 Seconds

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

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

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

“B” Port, Deck In: Target 7-9 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: 14-16 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 aft. Use caution when doing this, stop boom before main boom contacts tire.)

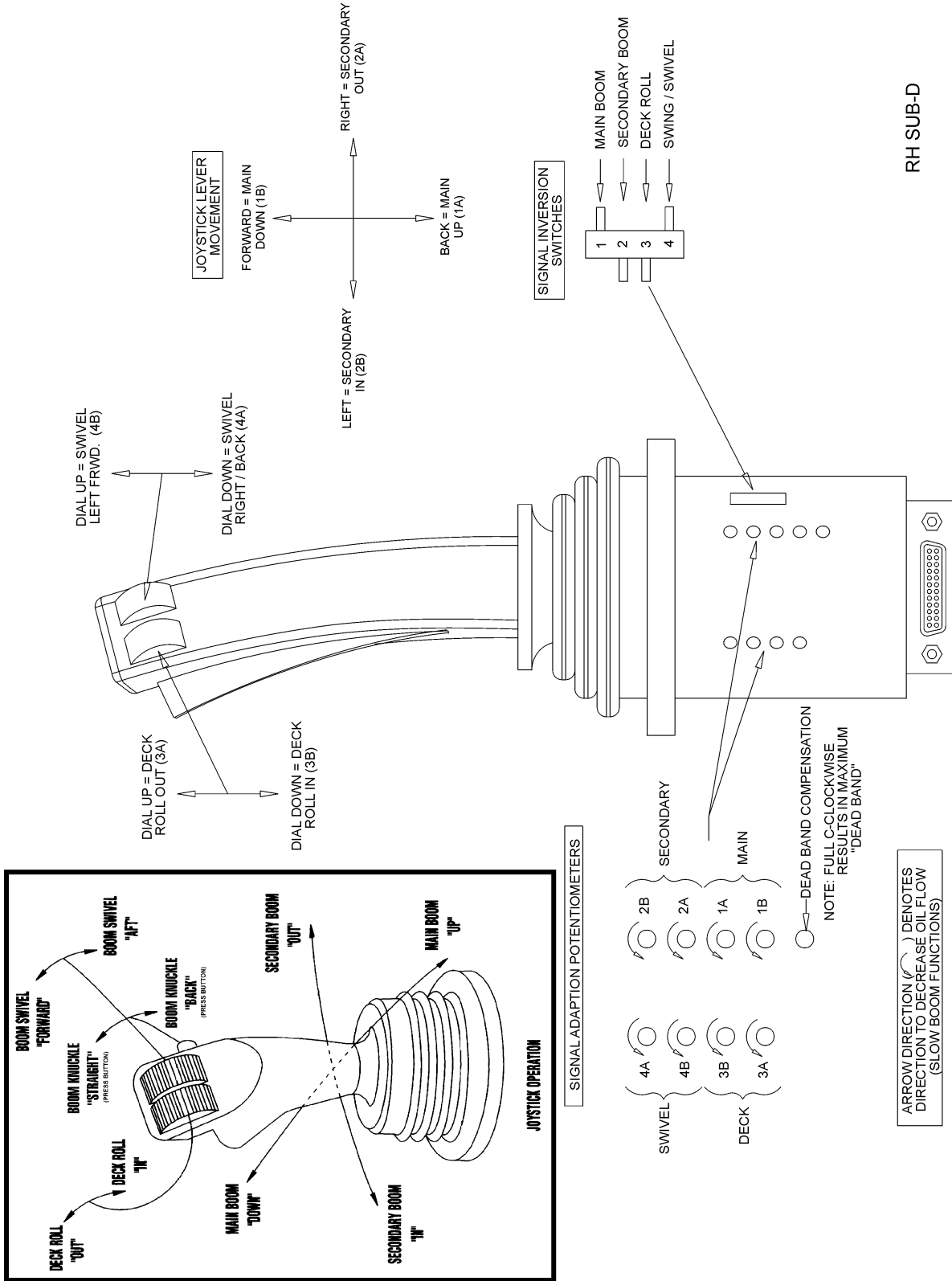
“B” Port, Boom Forward:14-16 Seconds

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



ASSEMBLY

(ASM-DF CALIBRATION LRS-0001)



RH SUB-D



ASSEMBLY

REAR STOW BENGAL HOSE ROUTING

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

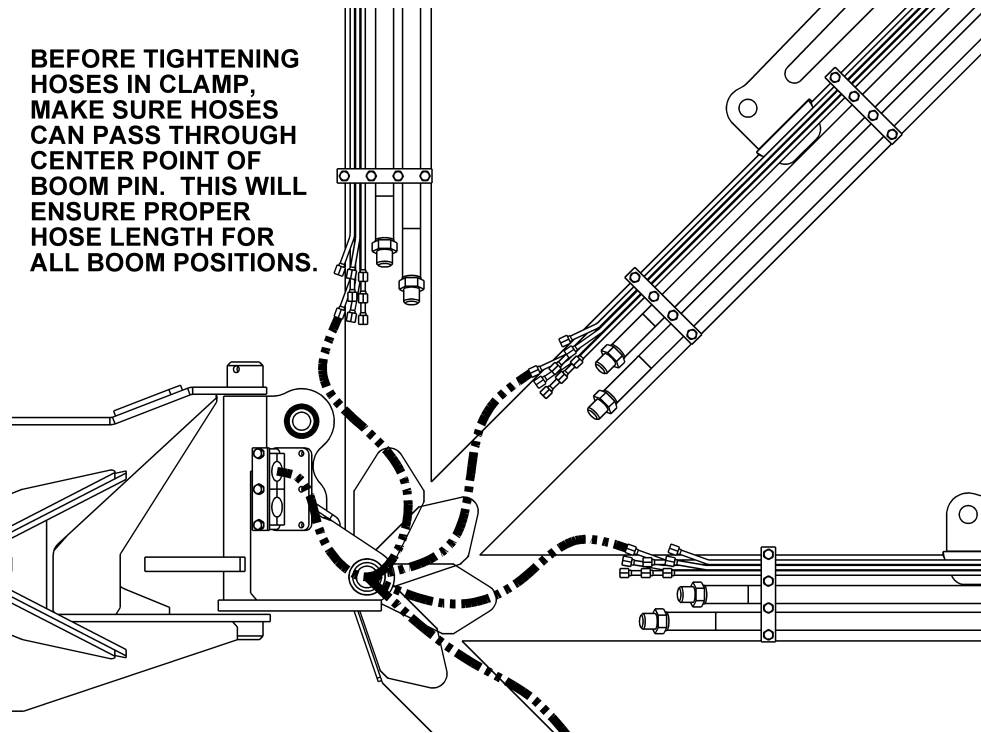


Mark the 1" return hose at 33" and 56" from the end that will connect to the boom preformed tube or hose. These marks will be placed in the hose clamps. The 1" pressure hose should be routed to follow the return hose. Route the hoses through the space between the swivel and the mainframe. Connect the hoses to the boom preformed tubes or hoses and move the boom arm to a few feet from full forward. Assemble the swivel clamp and place the return hose for the motor in the middle and the pressure line on the bottom. Place the 1/4" hoses in the top clamp and wrap the hoses with a split hose before tightening the clamp. If not all of the 1/4" hoses fit, route two of the hoses above the clamp and secure them to the other hoses with a zip tie. Make sure there is enough slack for all hoses to pivot at the joint where the main boom arm bends in the swivel, and tighten the hoses in the clamp. Wrap the hoses on either side of the clamp with the hose wrap. This will protect the hoses from abrasion and heat. (ASM-JD6xxxD HOSE ROUTING-0001)



ASSEMBLY

REAR STOW BENGAL HOSE ROUTING (CONT.)



Arrange the hoses in the clamp that attaches to the boom mounting bracket as shown above, with the 1" motor hoses closest to the bracket and the return hose closest to the boom arm. Pull the hoses snug from the swivel to the mounting bracket clamps, when main boom is still forward, and tighten the hoses in the clamp.

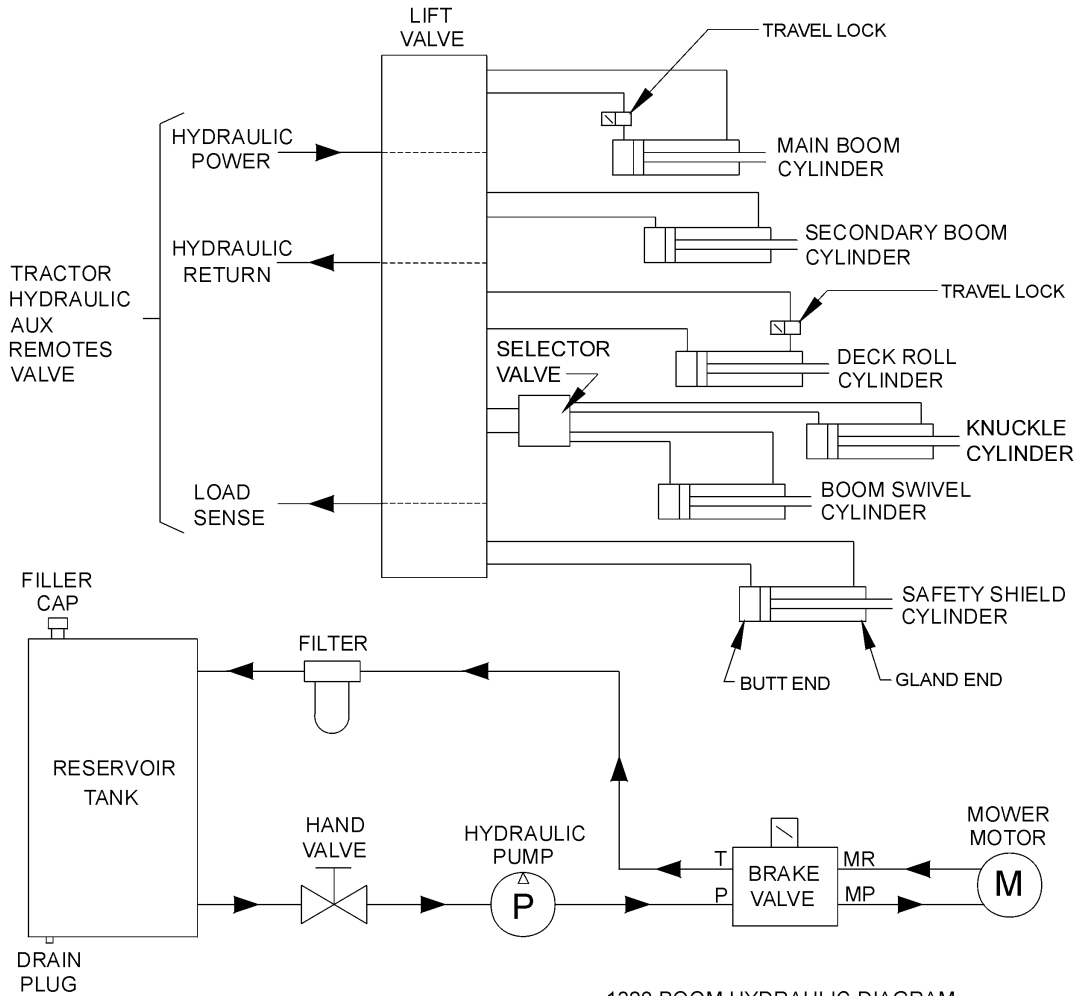
Make sure the 1" motor hoses do not kink as the boom arm is moved into the stowing position. If this happens the motor hoses will have to be shortened, because there is too much hose between clamps. (ASM-30S, 3PS HOSE ROUTING-0001B)



ASSEMBLY

(ASM-C-0094)

REAR STOW BOOM HYDRAULIC DIAGRAM



FILLING HYDRAULIC RESERVOIR

Refer to the Maintenance Section for filling specifications and hydraulic oil requirements.

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

(ASM-C-0004hydro resrv)



ASSEMBLY

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)

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)



ASSEMBLY

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)

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)

AXLE BRACE INSTALLATION

With the tractor on jack-stands, remove the existing hardware on the rear axle where the axle braces will be mounted. Use a hoist to raise the axle braces to the correctly matching mounting holes on the rear axle and the mainframe. Use the hardware shown in the Parts Section to attach the braces to the tractor, DO NOT tighten until the mainframe has been positioned onto the axle braces. The mainframe hardware will not be tightened at this time.

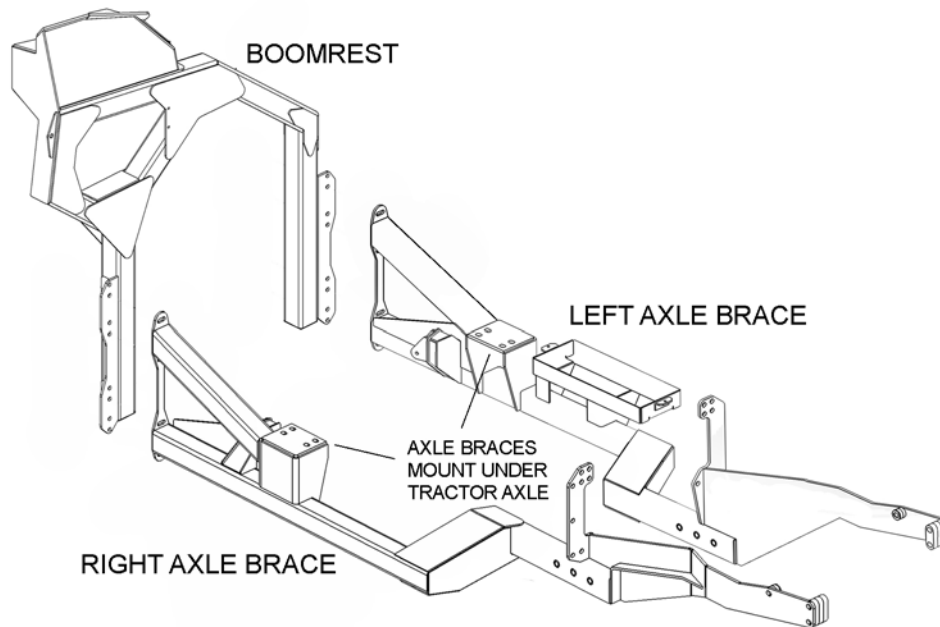
When the mainframe is in position, remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. (ASM-MF-0013)



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.



RS BOOMREST MOUNTING

Carefully raise the rear stow 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 rest strips to the boomrest as shown in the Parts Section. (ASM-JDBOOM-0001)

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

SWIVEL BRACKET MOUNTING

Install the boom swivel bracket onto the main frame 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 your Parts Section for more details.

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

Install the swing cylinder between the boom mounting bracket cylinder anchor and the boom swivel with the pins. Insert roll pins through the top and the bottom hole in the pins.

Attach hoses from the control valve to the swing cylinder. (ASM-C-0015)

DECK ATTACHMENT

Attach the head to the secondary boom using the pins and hardware shown in the Parts Section to attach linkages. Install the square tube on the top of the head into the head mount and secure using the mounting plate and hardware as shown. The mount should be positioned to the left side of the cutter head. Install the deck pivot cylinder using the pins and hardware also shown in the Parts Section.

Connect the fittings and hoses from the pivot cylinder to the small preformed tubes on the boom arm. Connect the fittings and hoses from the motor to the large preformed tubes on the boom arm.

Connect all remaining hoses from the control valve to the cylinders and / or preformed tubes on the boom arm. Refer to Parts Section for diagrams.

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



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)*



ASSEMBLY



CD9 F5 HCB'G97 HCB

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

CD9F5HCB

H 9F'6CCA'ACK 9F

CD9F5HB; 'BGHFI 7HCBG

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]]^c^ae^A^]^i^ae^ i^A^ a^A^ ae^•a^i^a^ A^i^]^ e^ &^c^]^ E^Q, ^c^i^E^i^]^ A^ @^|a^a^ *^A^ A^EEA^ A^ae^ i^ae^ E^i^O^E^S^A^ ae^c^ A^~ }^ { ^ }^ o^ae^ a
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Q^A^ A^o^A^]^i^ae^ i^q^A^••]]^•ae^ae^ A^c^ A^a^A^]]^,]^a^•^ae^i^A^ A^c^i^A^]^ e^ }^ ae^A^]^i^ae^ *^A^e^ ae^a^•A^e^ a^A^ A^c^ae^ A^c^i^
i^ae^]^ }^ ae^i^A^ i^A^ae^ c^i^ }^ A^c^ A^ }^ i^A^ }^•^•^i^E^i^ o^i^•E^e^ a^ ae^ E^e^e^ a^A^]]^ i^c^ A^e^A^]^ o^i^ b^ i^a^A^ i^A^ae^ ae^ a^A^ A^c^
a^[[{ A^ }^ a^i^a^ ae^d^ i^A^ i^A^ae^O^]]^ }^ A^ a^b^ &^E^i^O^]^ A^]^ o^i^]^i^ae^ A^o^A^]]^ { A^e^ a^A^aeae^@^a^A^@^ae^A^A^•^ae^ a^i^•E^i^ ae^•a^i^•a^E^
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V@^A^ &^c^ }^ A^ A^o^A^]^i^ae^ i^q^A^ e^ }^ ae^A^ A^a^•a^ }^ a^A^ A^e^ ae^ae^a^ E^i^•d^ &^c^ae^ a^A^a^ ae^ae^A^]^i^ae^ i^•A^c^ A^o^A^ae^A^e^ a^
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o^i^•A^e^ a^i^a^A^ A^o^A^]]^ { ^ }^ o^i^ a^A^ae^d^]]^ (OPS-U-0001)

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a^ae^O^i^ ae^ A^ &^ i^A^]]^••A^ae^ A^e^ A^e^ }^ A^c^]]^, A^o^A^ }^ a^ *^A^e^ a^A^•d^ &^c^ }^•A^ae^ a^A^ A^o^
Üae^c^ A^••ae^•E^i^U^e^, ae^•A^•A^]]^ a^A^]]^ { []^ A^ }^•^A^c^ A^e^]]^ a^A^e^ ae^a^ E^i^U^E^c^

SAFETY INSTRUCTIONS



PELIGRO

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LEA EL INSTRUCTIVO!



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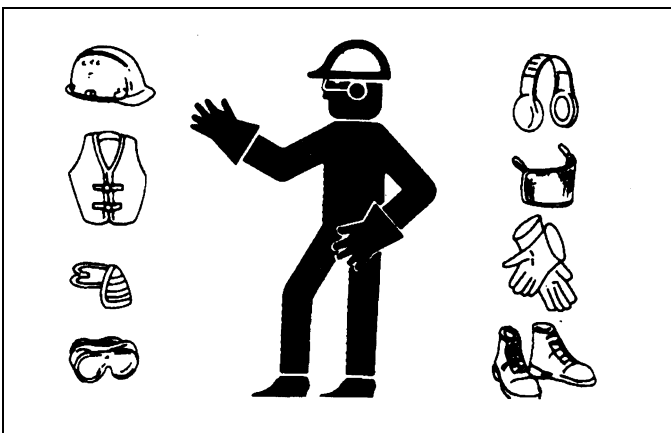
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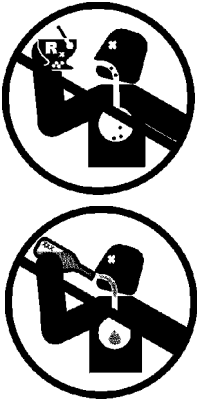
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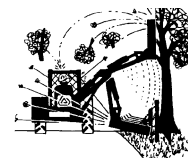
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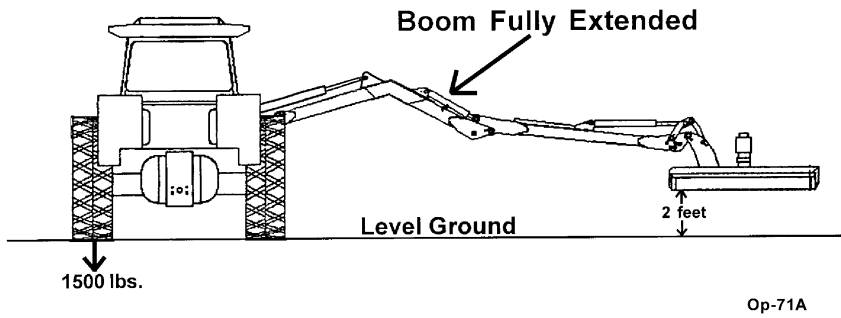
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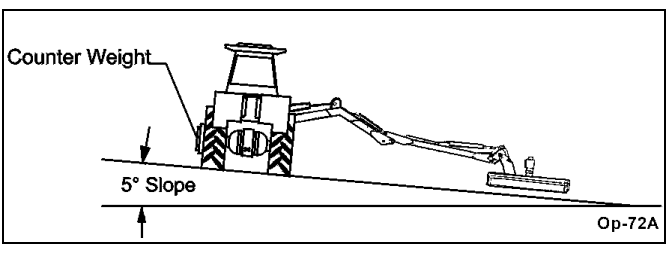
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Uphill Operation

When operating the boom on a slope, the counterweight must be positioned to maintain stability. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground.



When operating the boom on a slope, the counterweight must be positioned to maintain stability. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground.



9HCB; CB5B8C: : H<9HF57HCF

When operating the boom on a slope, the counterweight must be positioned to maintain stability. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground.

WARNING

When operating the boom on a slope, the counterweight must be positioned to maintain stability. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground. The boom should be fully extended and the counterweight should be positioned to maintain a 2-foot clearance from the ground. The counterweight should be positioned to maintain a 1500 lbs. weight on the ground.



Uphill

Uphill Operation

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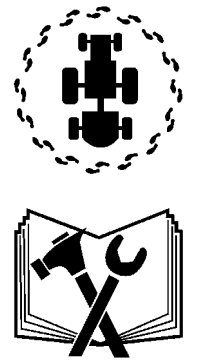
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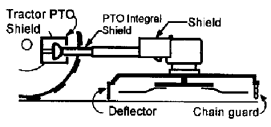
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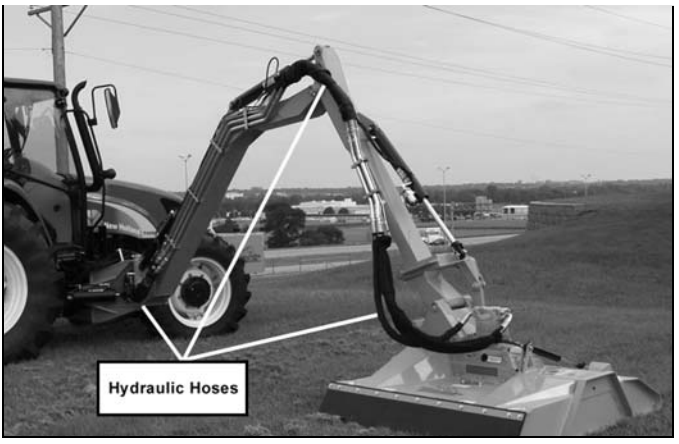
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Hydraulic Hoses

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CD9F5HCB

OPERAÇÃO



- " Q. 1. Antes de ligar a máquina, verifique se a tensão elétrica é a correta e se os cabos estão bem ligados. Não toque em partes metálicas durante a operação.
- " Q. 2. Antes de operar, certifique-se de que a área de trabalho está livre de obstáculos e que a máquina está devidamente alinhada.
- " Q. 3. Durante a operação, mantenha-se afastado das partes móveis e não toque em nenhuma parte da máquina.
- " Q. 4. Após o término da operação, desligue a máquina e aguarde o resfriamento antes de tocar em qualquer parte da máquina.
- " Q. 5. Se você observar qualquer defeito ou anomalia durante a operação, interrompa imediatamente e consulte um técnico qualificado.



CD9F5HCB



PERIGO Evite tocar em partes metálicas durante a operação da máquina para evitar choques elétricos. Não toque em partes da máquina durante a operação.



PERIGO Evite tocar em partes metálicas durante a operação da máquina para evitar choques elétricos. Não toque em partes da máquina durante a operação.

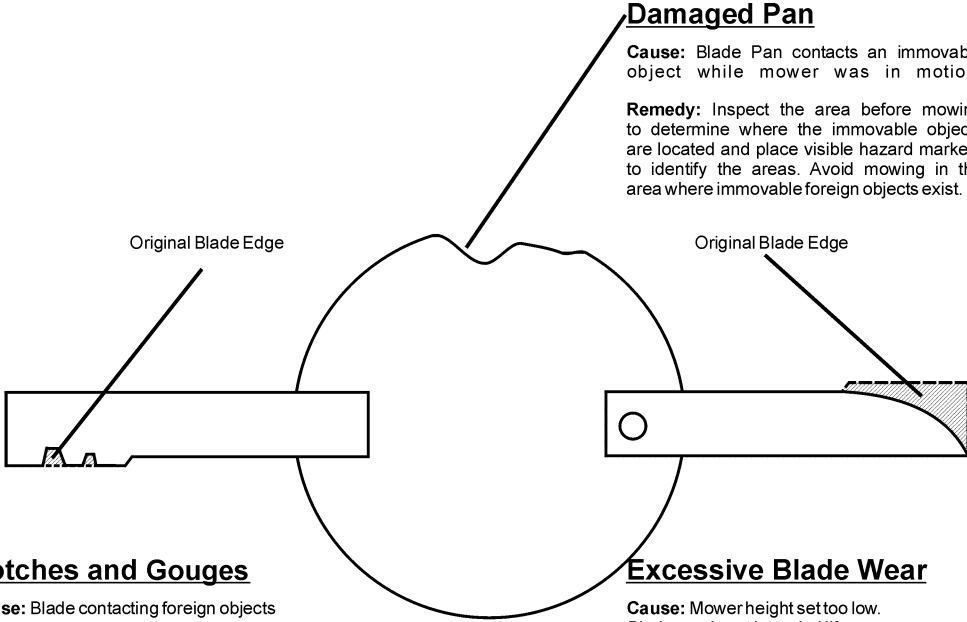
OPERAÇÃO

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OPS-U-0031



Damaged Pan
Cause: Blade Pan contacts an immovable object while mower was in motion.
Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.

Notches and Gouges
Cause: Blade contacting foreign objects
Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades

Excessive Blade Wear
Cause: Mower height set too low. Blade used past intended life.
Remedy: Replace blades more often. Adjust mower height for mowing Conditions to eliminate blade-to-ground contact

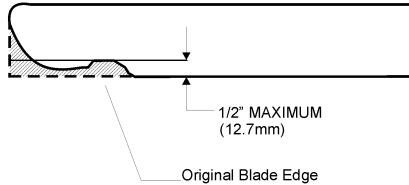
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NOTE:
 Replace Blades in pairs after no more than 1/2" (12.7mm) wear
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Tractor PRE-OPERATION Inspection



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Kgo	Eqpf kqap'cv'Uctv' qh'Uj klv	Ur gekhle'Ego o gpw' kh'pqv'QMO
Vj g'hcu] kpi 'hki j w'hwpevqp'r tqr gtn		
Vj g'UOX'Uki p'ku'erecp'cpf 'xkukrg		
Vj g'vtgu'ctg'lp'i qaf 'eqpf kqap'y kj 'r tqr gt'r tguwmg		
Vj g'y j ggn'hw' 'dqnu'ctg'ki j v		
Vj g'tcevt 'dtcng'ctg'lp'i qaf 'eqpf kqap		
Vj g'uvgtkpi 'hpnai g'ku'lp'i qaf 'eqpf kqap		
Vj gtg'ctg'pq 'xkukrg'qk'hgcmu		
Vj g'j { ftcwke'eqvtqu'hwpevqp'r tqr gtn		
Vj g'TQRU'qt'TQDU'Ecd'ku'lp'i qaf 'eqpf kqap		
Vj g'ugcvgm'ku'lp' r' rreg'cpf 'lp'i qaf 'eqpf kqap		
Vj g'5/r qlpv'j kej 'ku'lp'i qaf 'eqpf kqap		
Vj g'f tcy dct' r'lp'u'ctg'ugewgn'lp'r rreg		
Vj g'RVQ'o cuvt 'uj kgrf 'ku'lp'r rreg		
Vj g'gpi kpg'qk'hgxgn'ku'hwm		
Vj g'dtcng'hwkf'rgxgn'ku'hwm		
Vj g'r qy gt'uvgtkpi 'hmkf'rgxgn'ku'hwm		
Vj g'hvgn'hgxgn'ku'cf gs wcvg		
Vj g'gpi kpg'eqqrcpv'hmkf'rgxgn'ku'hwm		
Vj g'tcf kvqt 'ku'ltgg'qh'f gdtku		
Vj g'ckt'hvgt'ku'lp'i qaf 'eqpf kqap		

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DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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Boom PRE-OPERATION Inspection



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 a ck Yf 'jg'fYg]b['cb' H Y [fci bX'cf'gYW fYmiV'cW_YX' i d'UbX'U'\ mXfU']WdfYggi fY'\ Ug
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Table 1:

Kgo	Eqpf kklq'cv'Uctv' qh'Uj klv	Ur gekle'Ego o gpw" kh'pqv'QCMO
Vj g'Qr gtcvtai'O cpwcrku'lp'yj g'tcevqt		
Cmluchgv' f gecni'ctg'lp'r meg'cpf 'rgi kdr		
Vj g'o qwpvpi 'Hco g'dqnu'ctg'lp'r meg'cpf 'kij v		
Vj g'dqgo 'eqppgevqp'dqnu'(' r kpu'ctg'kij v		
Vj gtg'ctg'pq'etcemi'lp'dqgo		
Vj g'j { ftcwle'e{ rpf gtu'r kpu'ctg'kij v		
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Vj g'j { ftcwle'xcxkg'eqpvqnu'hpvevap'r tqr gtn		
Vj gtg'ctg'pq'rgcnkpi 'qt'f co ci gf 'j qugu		
Vj g'j { ftcwle'qkl'rgxgriku'hw		
Vj gtg'ku'pq'gxkf gpeg'qh'j { ftcwle'rgcni		
Vj g'drcf gu'ctg'pqv'ej kr gf . 'etcemgf 'qt'dgpv		
Vj g'drcf g'dqnu'ctg'kij v		
Vj g'f ghgevqtu'ctg'lp'r meg'cpf 'lp'i qaf 'eqpf kklq		
Vj g'dqgo 'uj lgrf u'ctg'lp'r meg'cpf 'lp'i qaf 'eqpf kklq		
Vj g'unkf 'uj qgu'ctg'lp'i qaf 'eqpf kklq'cpf 'kij v		
Vj gtg'ctg'pq'etcemi'qt'j qgu'lp'dqgo 'f gem		
Vj g'j { ftcwle'o qvt'o qwpvpi 'dqnu'ctg'kij v		
Vj g'dqgo 'j gcf 'ur lpf rg'j qwukpi 'ku'kij v'cpf 'hwdtlecygf		

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DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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CD9F5HCB

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

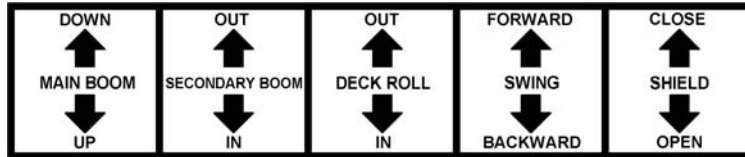
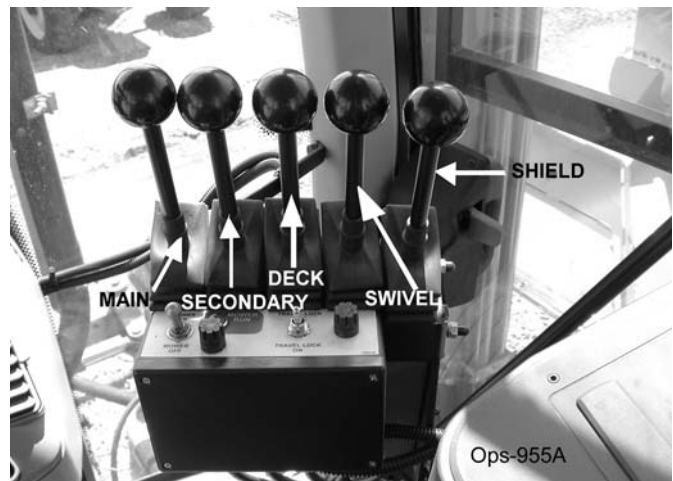
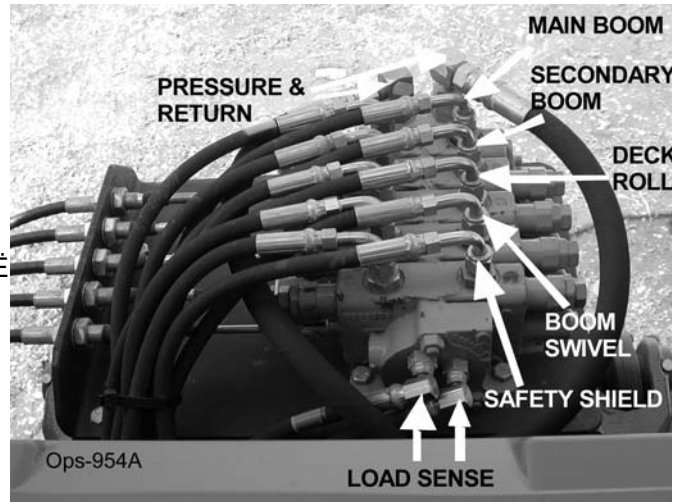


Diagram illustrating the control panel layout and the corresponding hydraulic lines for the CD9F5HCB. The panel includes controls for the Main Boom, Secondary Boom, Deck Roll, Swing, and Shield. The hydraulic lines are labeled with their respective functions: Pressure & Return, Main Boom, Secondary Boom,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



Control panel

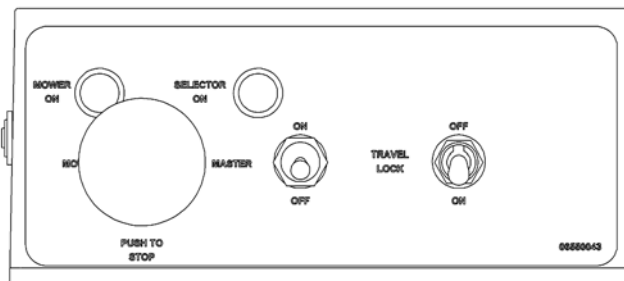
Hydraulic lines

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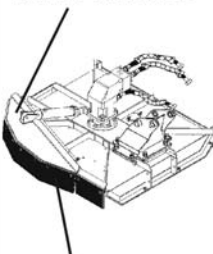
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DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

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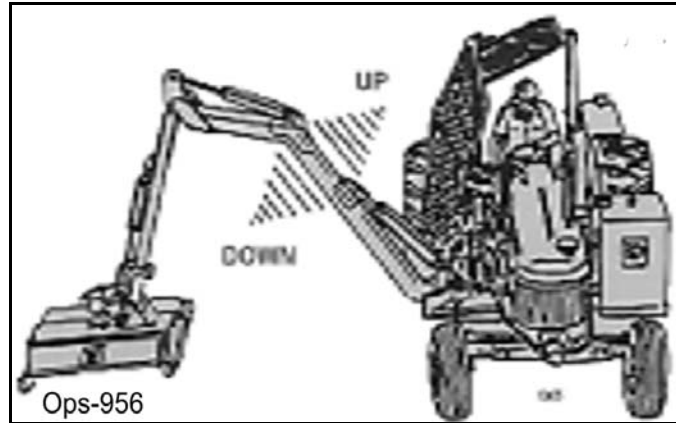
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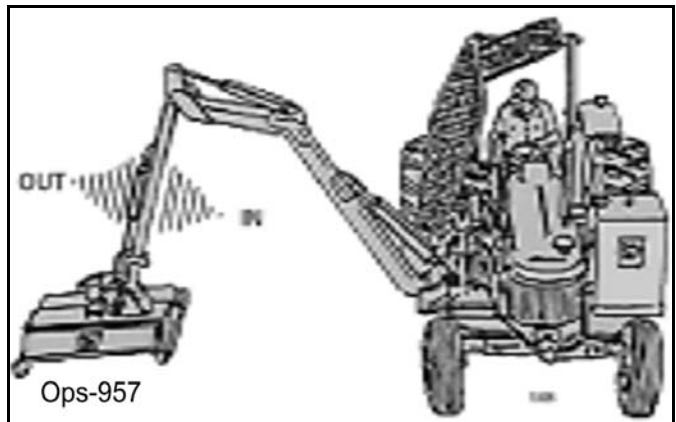
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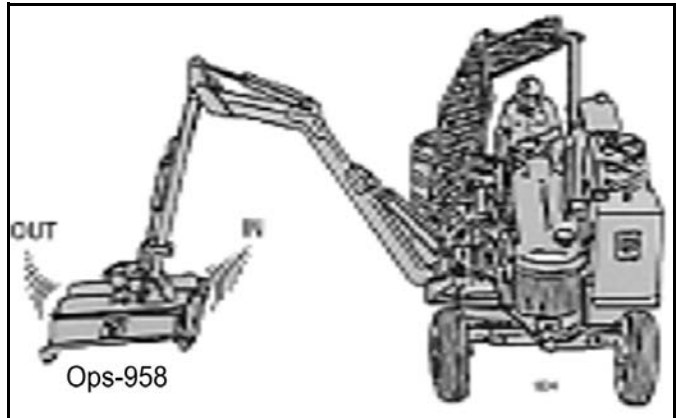
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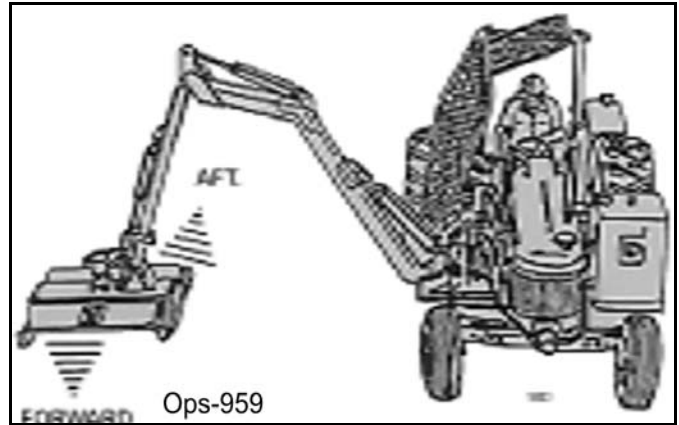
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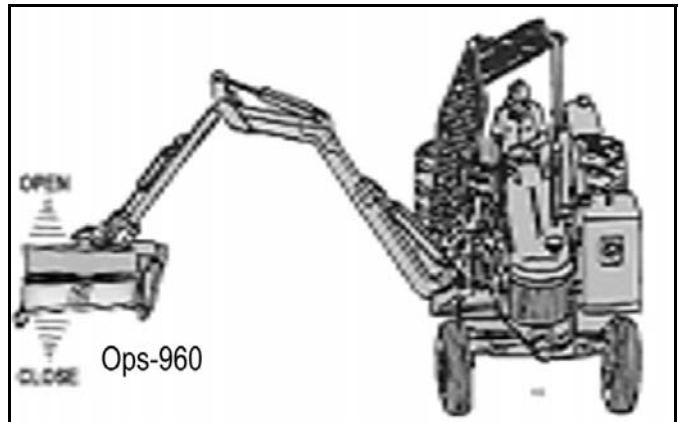
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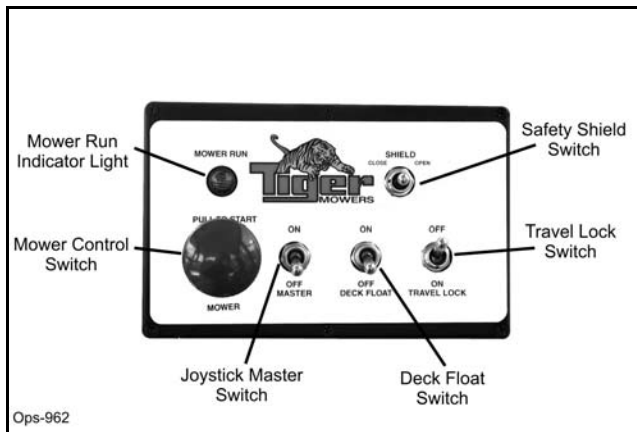
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CD9F5HCB

Control Panel

Refer to the operator's manual for detailed information on the control panel. The control panel includes the Mower Run Indicator Light, Mower Control Switch, Joystick Master Switch, Safety Shield Switch, Travel Lock Switch, and Deck Float Switch.



Always use the control panel in a safe manner. Do not operate the mower if you are under the influence of alcohol or drugs. Do not operate the mower if you are tired or distracted. Do not operate the mower if you are wearing headphones or other earplugs. Do not operate the mower if you are wearing loose clothing or jewelry. Do not operate the mower if you are wearing glasses that are not secured. Do not operate the mower if you are wearing contact lenses. Do not operate the mower if you are wearing a hat or any other headwear that may obstruct your vision. Do not operate the mower if you are wearing shoes that do not have proper tread. Do not operate the mower if you are wearing sandals or flip-flops. Do not operate the mower if you are wearing high-heeled shoes. Do not operate the mower if you are wearing any type of footwear that is not designed for work. Do not operate the mower if you are wearing any type of footwear that is not designed for work. Do not operate the mower if you are wearing any type of footwear that is not designed for work.

! **DANGER**

SAFETY SHIELD OPERATION

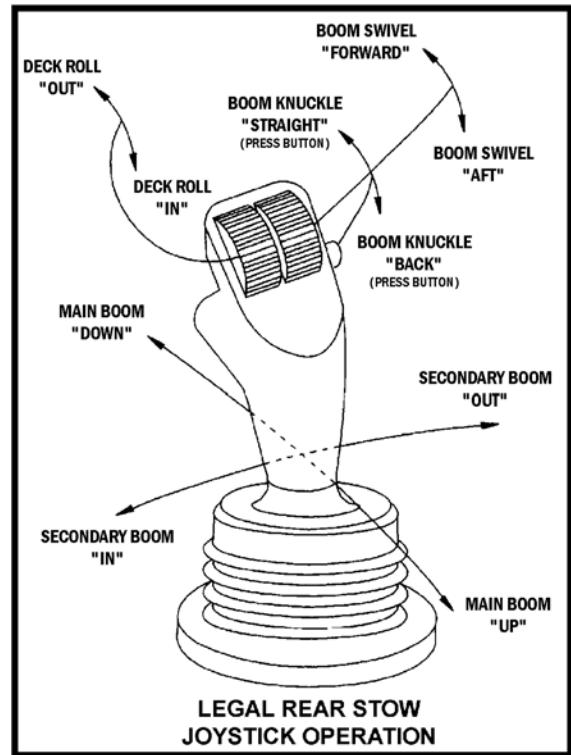
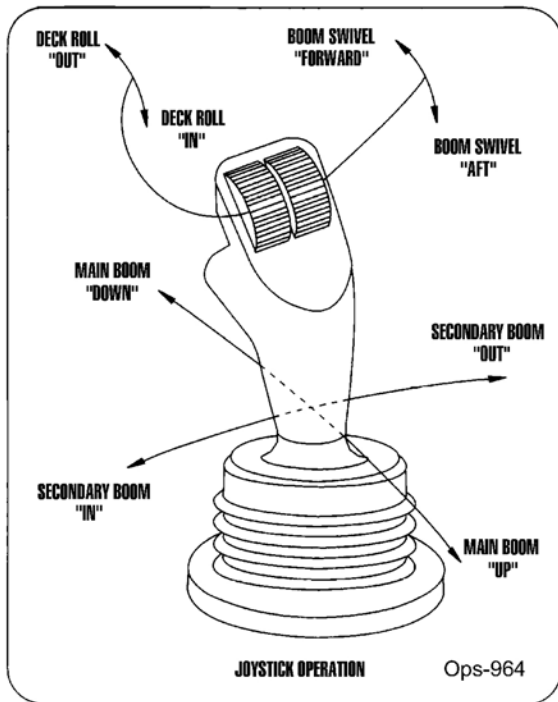
- Failure to close Safety Shield may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.
- 1. Keep Safety Shield fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades and to prevent contact 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

Operator's Manual | Tiger Mowers

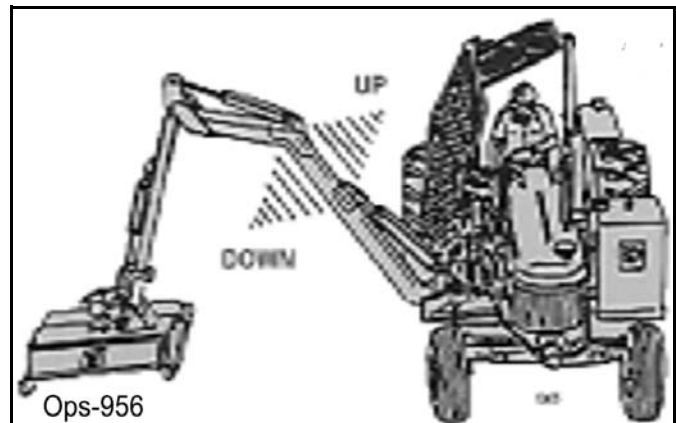
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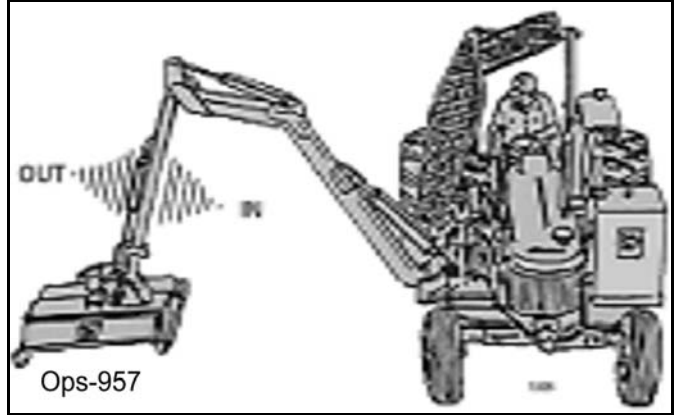
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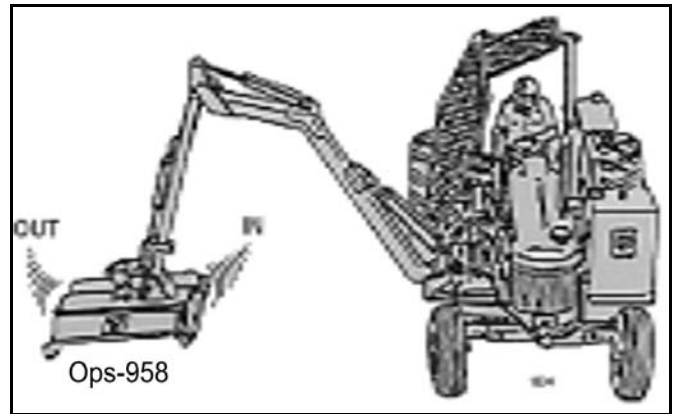
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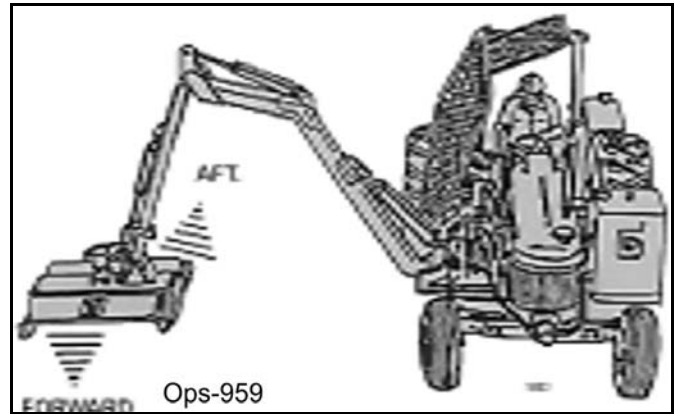
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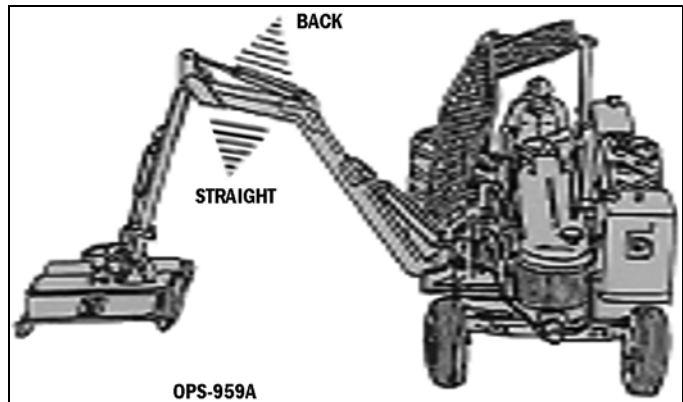
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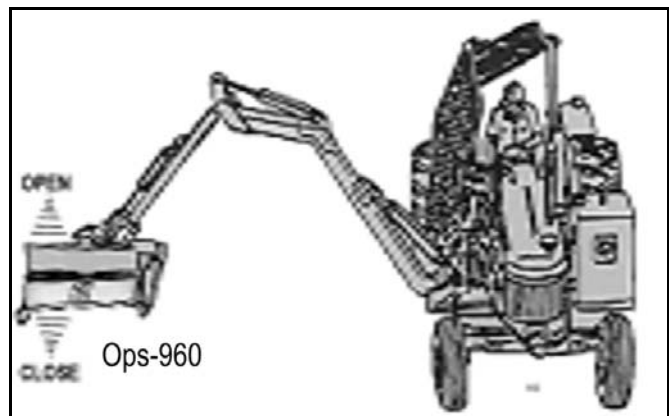
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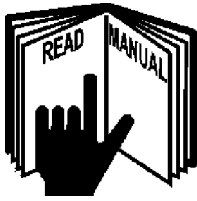
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DANGER

1. **Read the manual before operating the machine.**
 2. **Do not touch the moving parts of the machine.**
 3. **Do not drink alcohol or use drugs before operating the machine.**
 4. **Do not operate the machine if you are tired or if you have been drinking alcohol or using drugs.**
 5. **Do not operate the machine if you are under the influence of medication.**
 6. **Do not operate the machine if you are ill or if you are recovering from an injury.**
 7. **Do not operate the machine if you are pregnant or if you are nursing a child.**
 8. **Do not operate the machine if you are taking medication that affects your vision or hearing.**
 9. **Do not operate the machine if you are taking medication that affects your judgment.**
 10. **Do not operate the machine if you are taking medication that affects your coordination.**

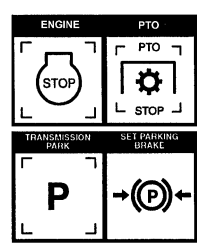


WARNING

1. **Do not touch the moving parts of the machine.**
 2. **Do not drink alcohol or use drugs before operating the machine.**
 3. **Do not operate the machine if you are tired or if you have been drinking alcohol or using drugs.**
 4. **Do not operate the machine if you are under the influence of medication.**
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 7. **Do not operate the machine if you are taking medication that affects your vision or hearing.**
 8. **Do not operate the machine if you are taking medication that affects your judgment.**
 9. **Do not operate the machine if you are taking medication that affects your coordination.**

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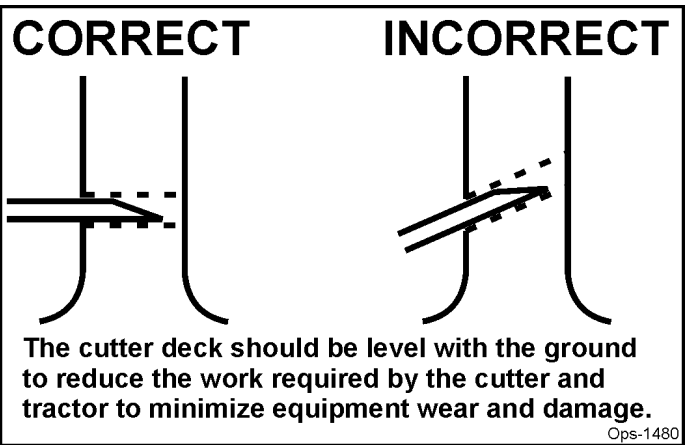
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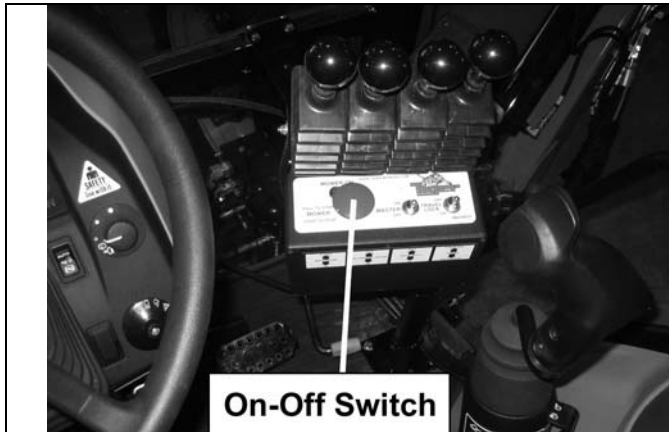
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On-Off Switch

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

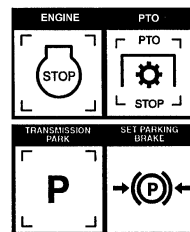


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On-Off Switch

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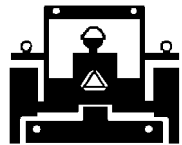
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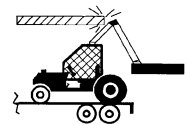
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Op - 46

⚠ DANGER

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MAINTENANCE SECTION

Maintenance Section 4-1

MAINTENANCE

General Instructions

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

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

Maintenance Precautions

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

⚠ WARNING

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

Break in Period

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

⚠ DANGER

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



MAINTENANCE

WARNING

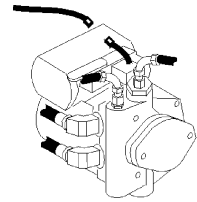
Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

WARNING

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

DANGER

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



MAINTENANCE

MAINTENANCE

Regular Maintenance

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

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

Daily or Every 8 Hours

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

Boom

Maintenance Section 4-4

MAINTENANCE

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WEEKLY OR EVERY 40 HOURS

ITEM	SERVICE	COMMENTS
Rotary Spindle	Lubricate	Every 40 hours or weekly

WEEKLY OR EVERY 50 HOURS

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

MONTHLY OR EVERY 150 HOURS

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

YEARLY OR EVERY 500 HOURS

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

Boom

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

MAINTENANCE

MAINTENANCE

TROUBLESHOOTING (CONTINUED)

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

NOTE: If flow meter is available, check pressure and flow volume for all suspected hydraulic problems. If the solution to your problem cannot be found in this section, call the Technical Service representative at the number shown on the front cover of this manual.

MAINTENANCE

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Torque for Standard Fasteners													
Nominal Dia. (in.)	threads per inch	Grade 2			Grade 5			Grade 8			Grade 9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed 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	128	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	966	1095	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1363	1545	1817	1597	1810	2130
1 1/2	6	652	783	869	1462	1657	1950	2371	2688	3162	2779	3150	3706
Fine Thread Series													
1/4	28	56 in-lbs	68 in-lbs	75 in-lbs	87 in-lbs	99 in-lbs	116 in-lbs	123 in-lbs	139 in-lbs	164 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs	37 ft-lbs	42 ft-lbs	49 ft-lbs	43 ft-lbs	49 ft-lbs	58 ft-lbs
7/16	20	27	32	36	41	47	55	58	66	78	68	78	91
1/2	20	41	49	55	64	72	85	90	102	120	105	120	141
9/16	18	59	71	78	91	103	121	128	146	171	151	171	201
5/8	18	82	99	110	127	144	170	180	204	240	211	239	281
3/4	16	144	173	192	223	253	297	315	357	420	369	418	492
7/8	14	138	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

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

Torque-Tension Relationship for Metric Fasteners													
Nominal Dia. (mm)	Pitch	Class 4.6			Class 8.8			Class 10.9			Class 12.9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed 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

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Maintenance Section 4-8

MAINTENANCE

LUBRICATION RECOMMENDATIONS

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

Boom

Maintenance Section 4-9

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POLYCARBONATE CARE AND MAINTENANCE

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

CLEANING THE SUPERCOAT HARD-COAT

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

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

Aqueous Solutions of Soaps and Detergents

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

Organic Solvents

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

Alcohols

Methanol	Isopropyl
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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 is generally effective. When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal.

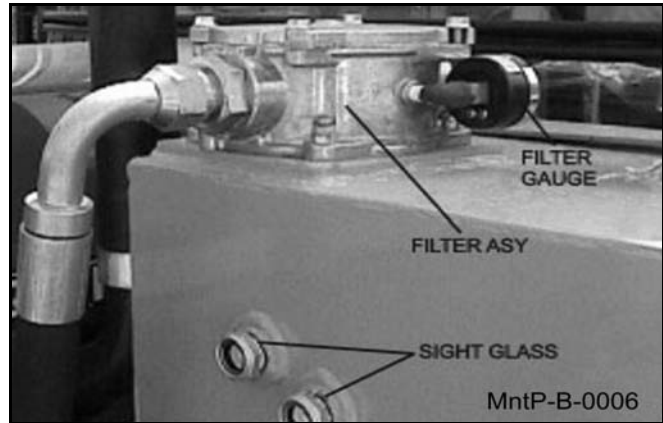
IMPORTANT: If a material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be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

MAINTENANCE

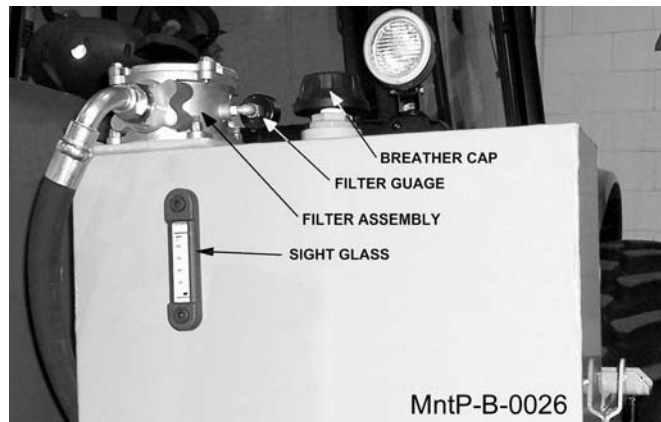
RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVOIRS

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

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



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



DETAILED MAINTENANCE

REPLACING IN-TANK HYDRAULIC FILTER:

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



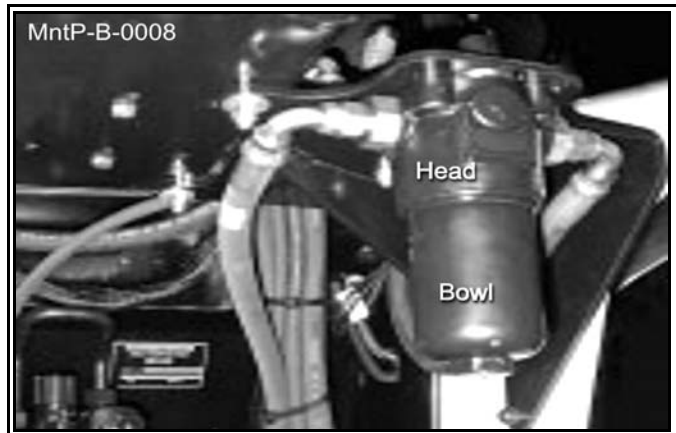
MAINTENANCE

MAINTENANCE

DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

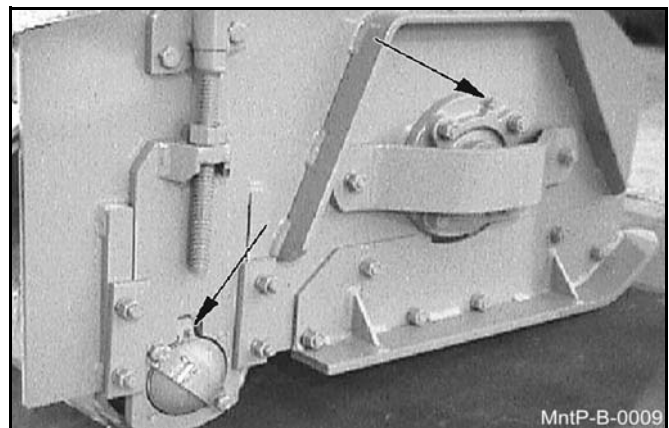
Ensure that the system has been shut down and de-pressurized. Locate High Pressure Filter housing. Confirm that the element that is about to be installed matches the element p/n on the filter model tag. *Example: V3.0510-06 (world line 100, HD049 model)* Locate the bottom of the High Pressure Bowl. Using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



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

GREASING CUTTERSHAFT -- FLAIL MOWERS

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



MAINTENANCE

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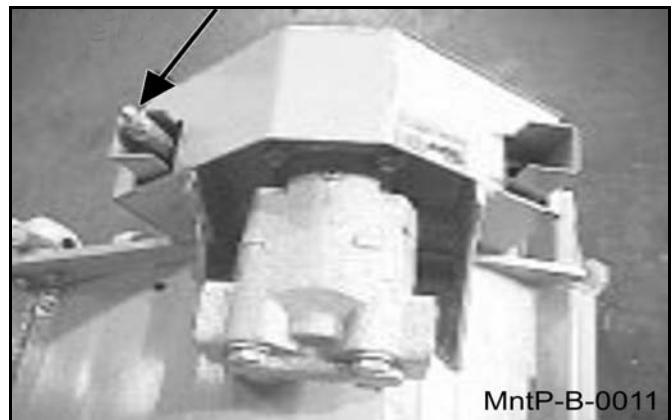
GREASING GROUND ROLLER SHAFT-- FLAIL

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



ADJUSTING/CHECKING BELT TENSION

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

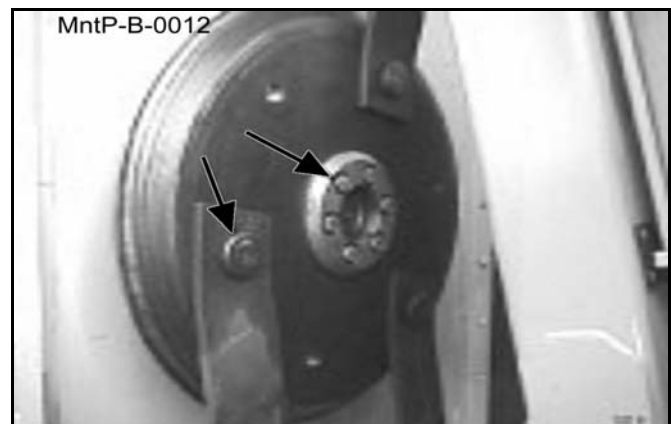


TIGHTENING KNIFE BOLTS AND DISK BOLTS:

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

Knife mounting bolts torque to 800 lubricated ft. lbs.

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

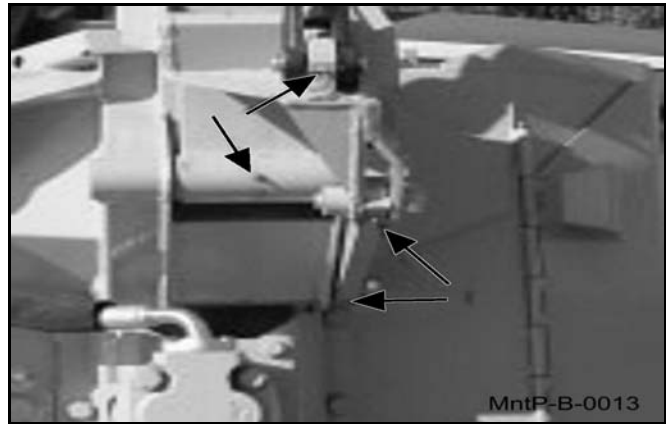


MAINTENANCE

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GREASING POINTS ON BOOM AND PIVOT

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



DECK STOP ADJUSTMENT

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



GREASING SPINDLE

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

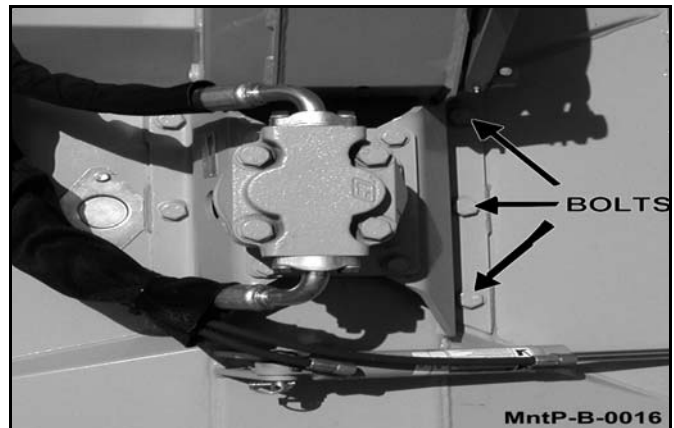


MAINTENANCE

MAINTENANCE

TIGHTENING SPINDLE BOLTS

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



GREASING PUMP DRIVE SHAFT COUPLER

With engine stopped, ensure driveshaft alignment by grasping coupler and sliding back and forth. Coupler should slide freely with approximately 1/8" of end play. If coupler does not slide freely, inspect for loose pump mount bolts, or damaged or loose crankshaft adapter. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into coupler until grease begins to protrude from ends. Grease daily or every 8 hours. Do not over grease.

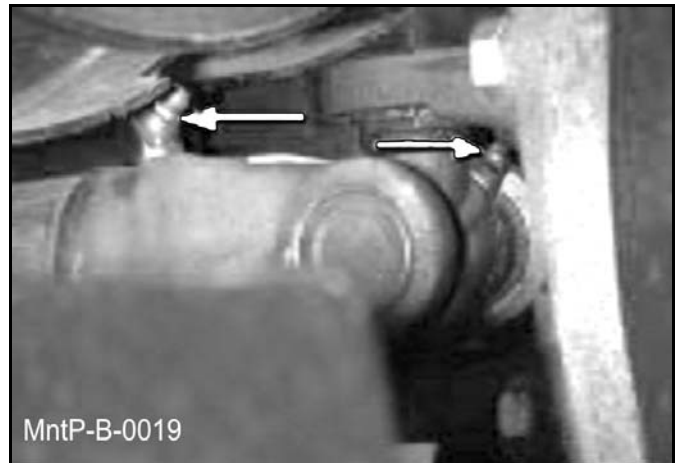
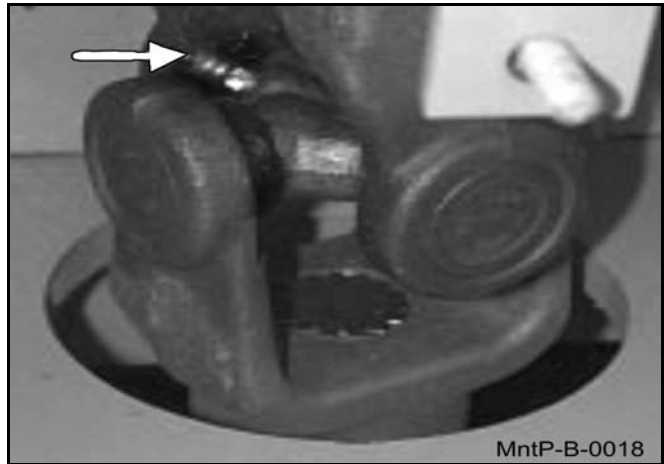


MAINTENANCE

MAINTENANCE

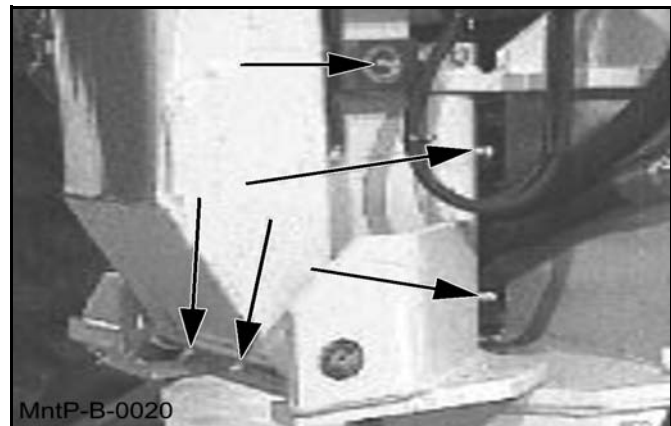
DRIVESHAFT YOKE, U-JOINT STUB SHAFT

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



GREASING THE BOOM SWIVEL

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

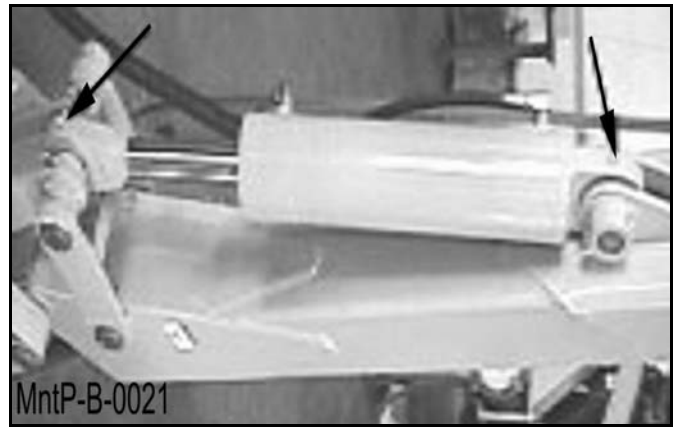


MAINTENANCE

MAINTENANCE

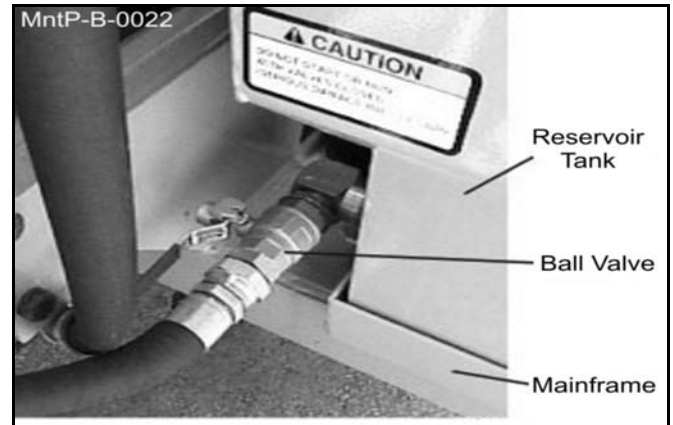
GREASING BOOM CYLINDER(S) PIVOT POINTS

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



BALL VALVES

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



MAINTENANCE

MAINTENANCE

Blades

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

CAUTION

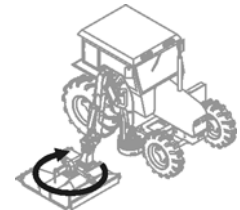
Blades should always be replaced in pairs. Blades of different weights can cause serious imbalance and damage to the machine and personnel. When replacing blades, take care to replace the blade bolts, nuts, and washers.


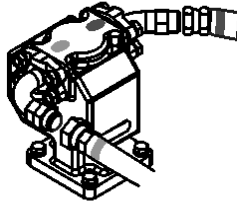
Important

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

WARNING

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



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

D619

MAINTENANCE

ROTARY KNIFE REPLACEMENT

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



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

REPLACEMENT OF ROTARY DISK/BLADE BAR



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

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

MAINTENANCE

Flail Blades Inspection

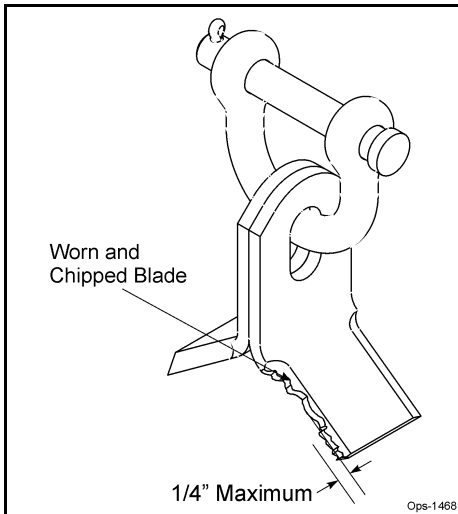


Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

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

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

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



Always replace blades in sets

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

MAINTENANCE

Blade Pins and D-Ring Inspection

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

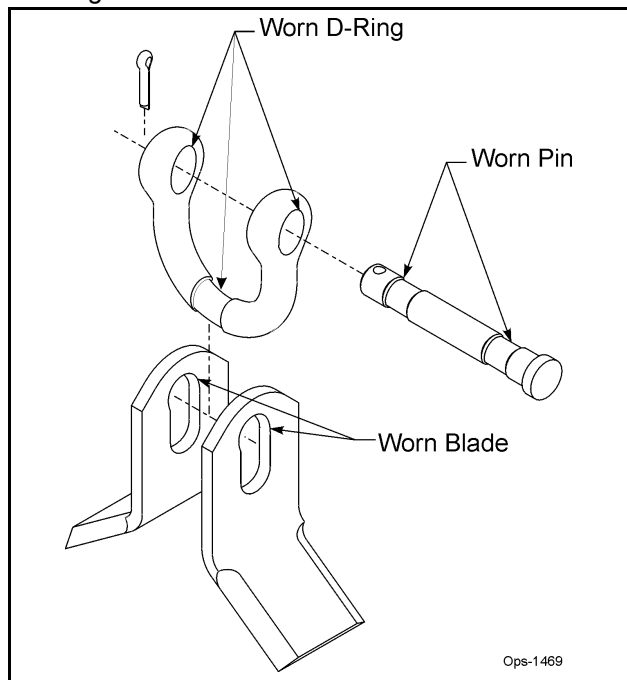


Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

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

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

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



Important

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

MAINTENANCE

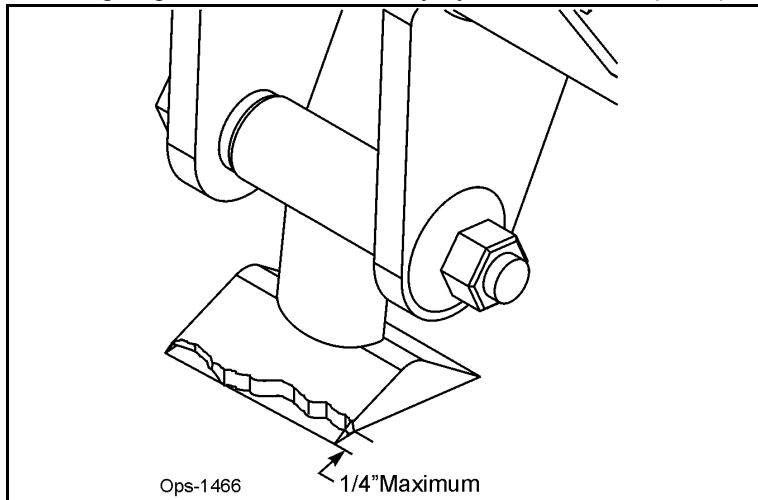
MAINTENANCE

Flail Axe Blades Inspection



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

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



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

Always replace blades in sets

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

Important

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



Never attempt to sharpen blades. OPS-U-0042

MAINTENANCE

Flail Axe Blade Bolt Inspection

Inspect Blade Bolts daily for wear or damage as follows:

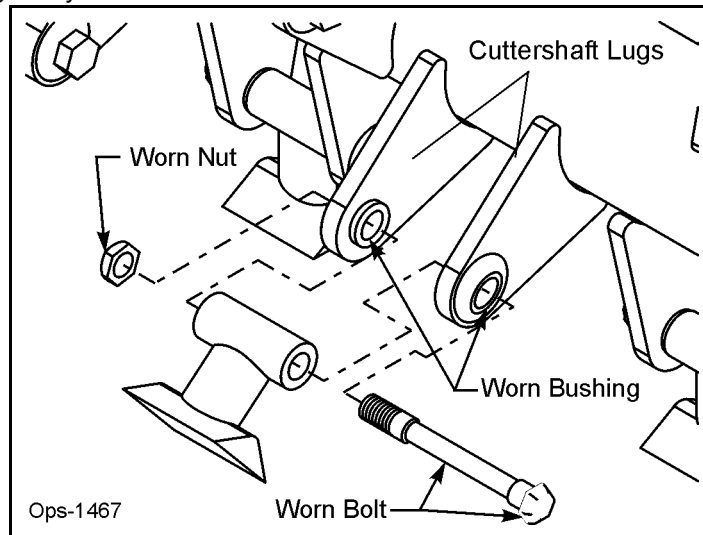


Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

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

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

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



MAINTENANCE

50" FLAIL KNIFE BLADE REPLACEMENT

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



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

63" BOOM FLAIL KNIFE REPLACEMENT

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



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



Knives should not be welded on for any reason.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

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

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

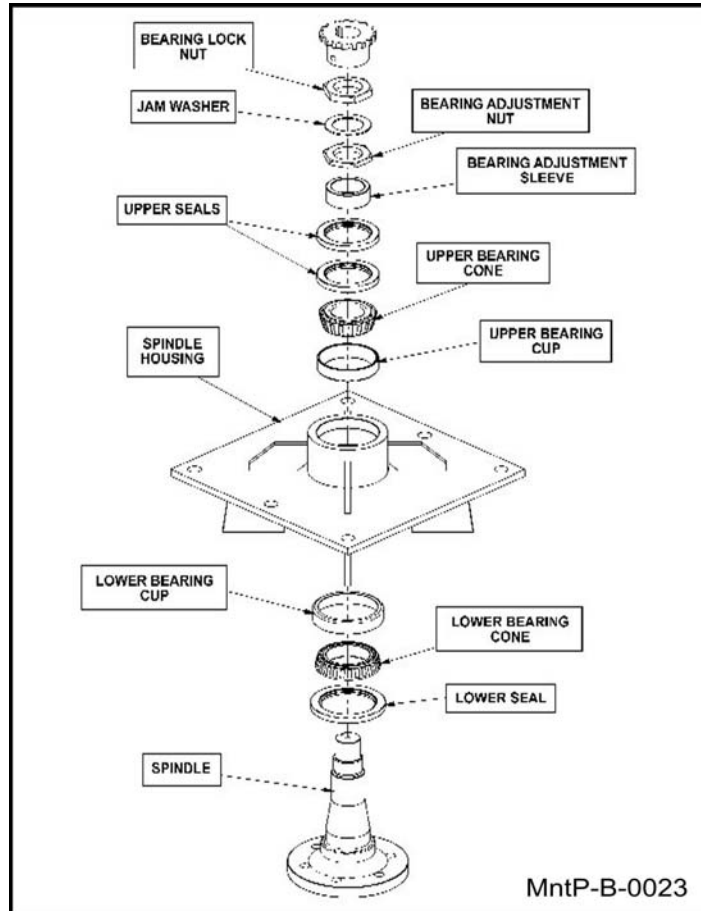
Be sure to wear eye protection and other protective equipment as needed when working on spindle assembly.

MAINTENANCE

MAINTENANCE

THE SPINDLE ASSEMBLY

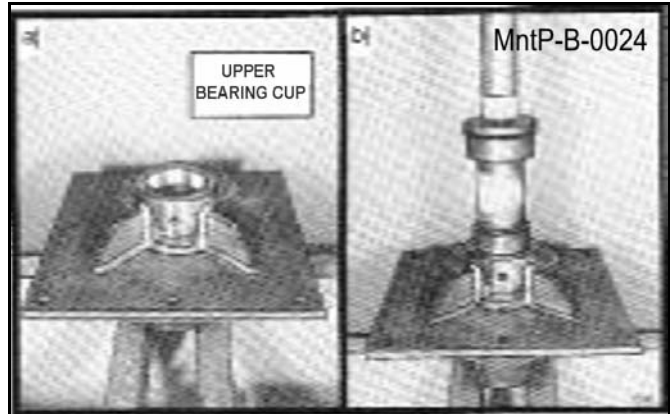
See the diagram below for identification of spindle parts, while servicing.



MAINTENANCE

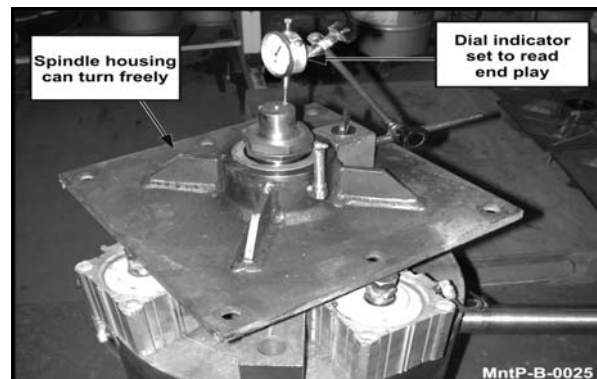
BEARING INSTALLATION

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



BEARING ADJUSTMENT

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



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

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

MAINTENANCE

Boom Cylinder Removal and Replacement Instructions

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

MAINTENANCE

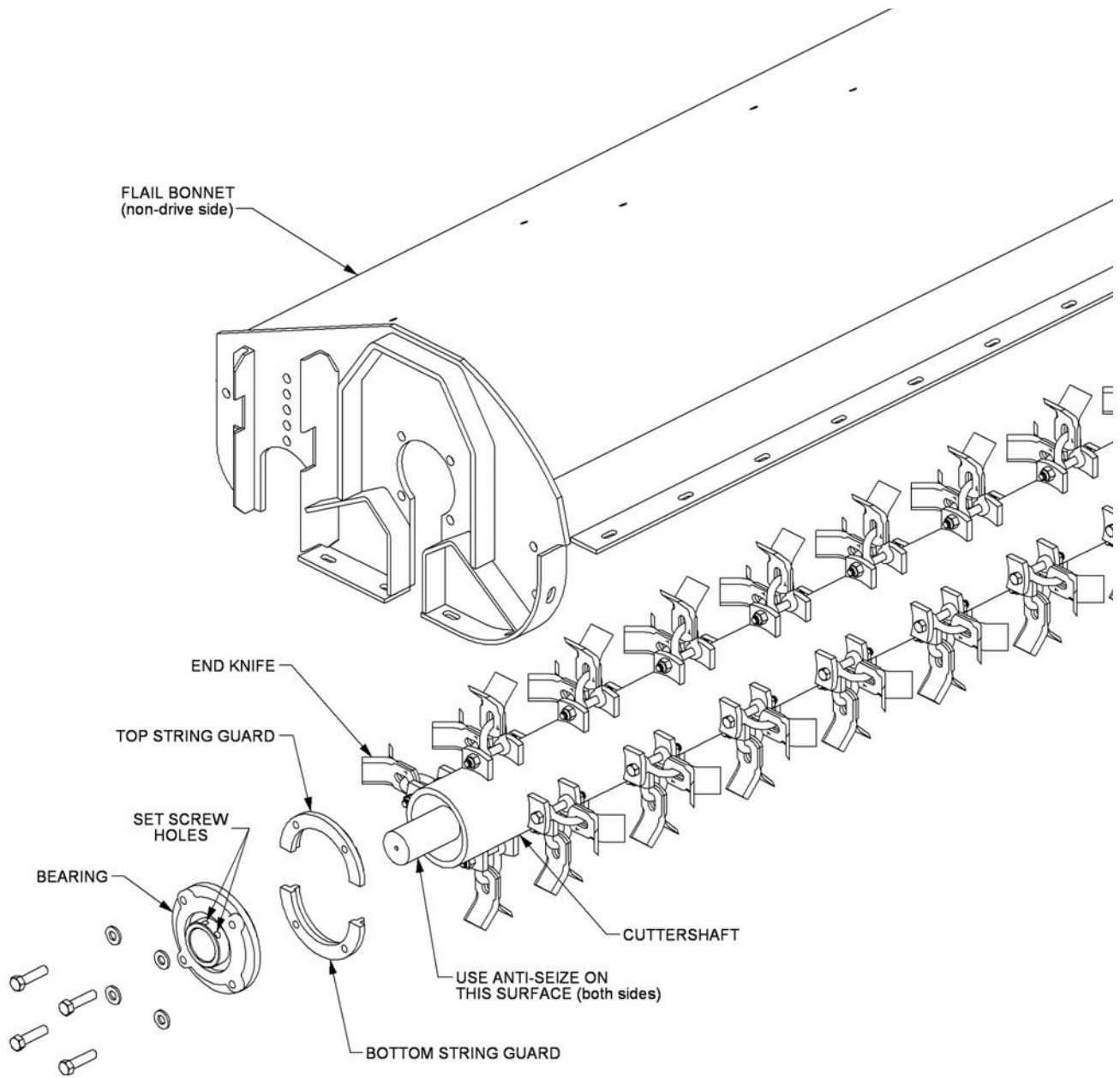
CUTTERSHAFT BEARING REPLACEMENT

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

See illustration on next page

MAINTENANCE

MAINTENANCE



Boom

Maintenance Section 4-29

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.

_____ 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.

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PARTS SECTION

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.

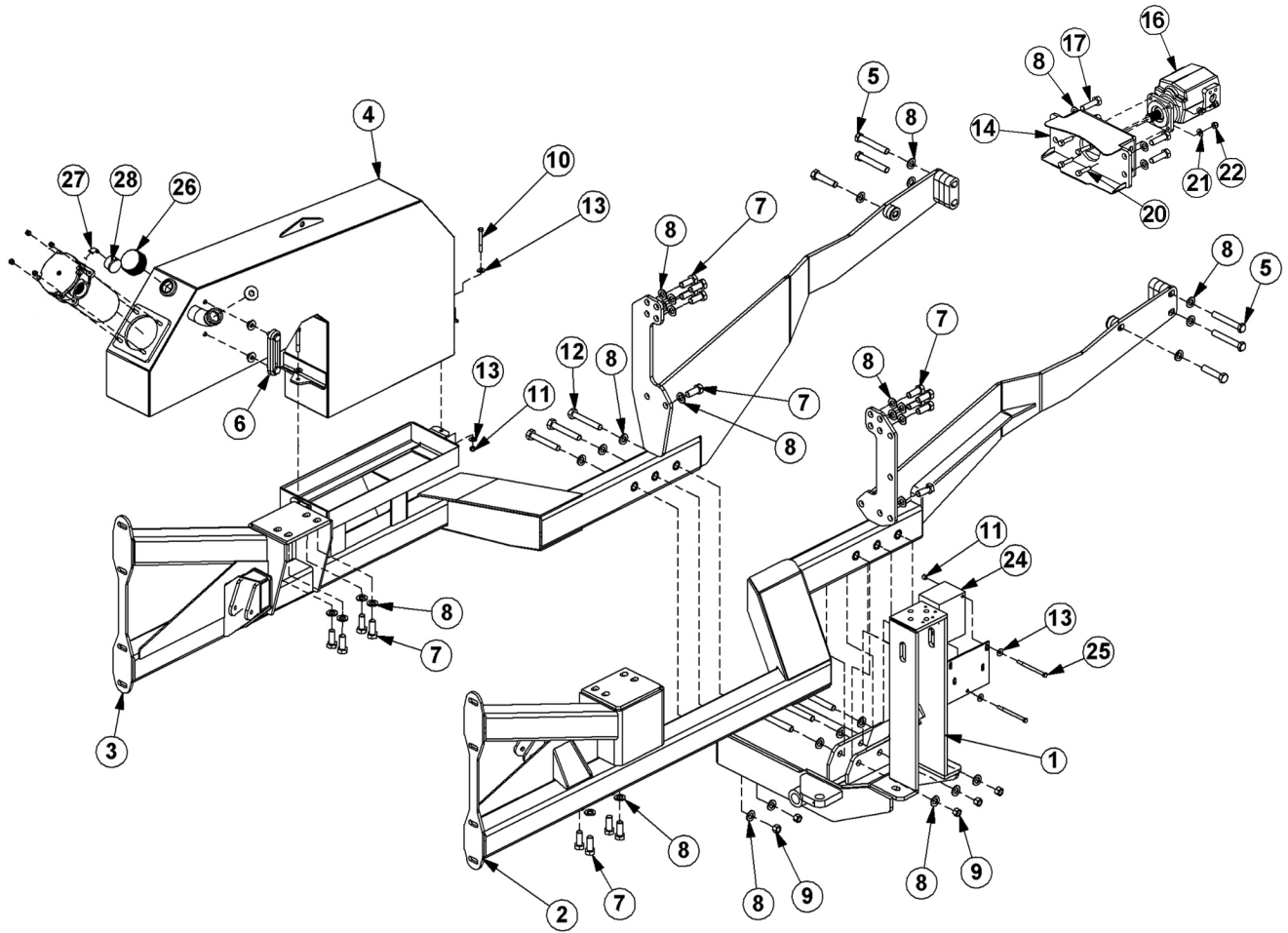
Direct any questions regarding parts to:

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

PART NAME INDEX

VTCEVQT'O QWP V'MKV/'HTQP V'RWO R	6
VTCEVQT'O QWP V'MKV/'J [F T C W N E U H T Q P V ' R W O R	8
VTCEVQT'O QWP V'MKV/'TGCT'RWO R	:
VTCEVQT'O QWP V'MKV/J [F T C W N E U T G C T ' R W O R	32
DCVVGTL ' T G N Q E C V K P	34
ECDNG'O CP WCN+NKH'XCXG'DTGCMF QY P /28724339	36
ECDNG'O CP WCN+NKH'XCXG'DTGCMF QY P /28724338	38
ECDNG'O CP WCN+NKH'XCXG'O QWP V/'6"URQQN	3:
ECDNG'O CP WCN+NKH'XCXG'O QWP V/'7"URQQN	42
6"URQQN'ECDNG'EQP VTQN'O QWP V	44
7"URQQN'ECDNG'EQP VTQN'O QWP V	46
LQ[UVKEM'CP F 'UY K E J D Q Z ' O Q W P V	48
LQ[UVKEM'NKH'XCXG'O QWP V	4:
TGCT'J [F T C W N E ' R W O R 28726353	52
DQO T G U V ' C P F ' C Z N G ' D T C E G U	54
RCP Q T C O E ' R Q N [E C T D Q P C V G ' U C H G V [' Y R F Q Y	56
HTQP V' CZNG'UVC DNK GT'QRVQP	58
RWO R' F T K G U J C H V ' D T G C M F Q Y P	5:
Y J G G N ' U R C E G T	5;
Y J G G N ' Y G K J V	62

TRACTOR MOUNT KIT - FRONT PUMP

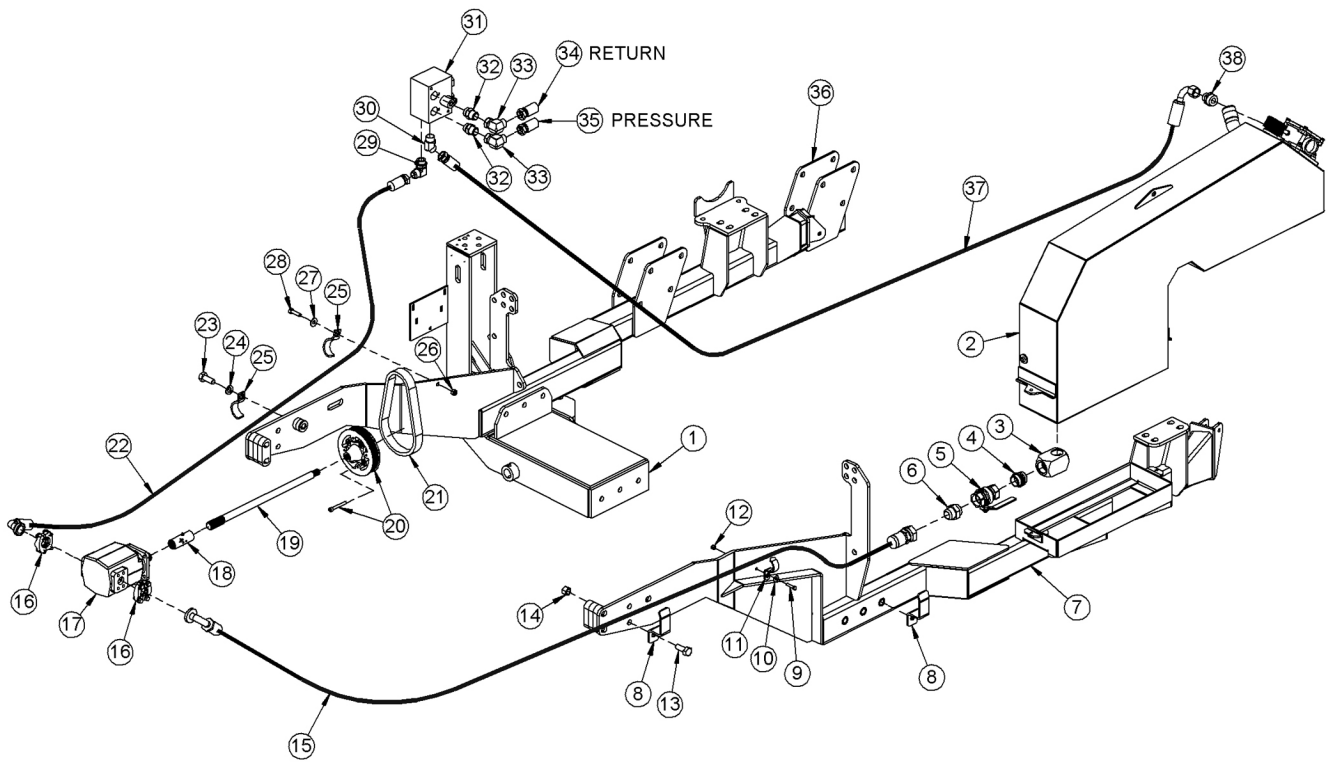


TRACTOR MOUNT KIT - FRONT PUMP

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300240	1	MAINFRAME, JD61XXD
2	06300238	1	RIGHT AXLE BRACE
3	06300239	1	LEFT AXLE BRACE
4	06700091	1	TANK, RES, ASSY, WHEEL WELL
5	06530542	4	CAPSCREW, 20MM X 140MM
6	06505067	1	SIGHT GAUGE
7	31731	20	CAPSCREW, 20MM X 50MM (2.5 PITCH)
8	33880	38	FLATWASHER 3/4" GR 8, SAE
9	21825	6	HEX NUT, 3/4" NC
10	21639	2	CAPSCREW, 3/8" X 3-1/4" NC
11	21627	4	NYLOCK NUT, 3/8" NC
12	21842	3	CAPSCREW, 3/4" X 5" NC
13	22016	6	FLATWASHER, 3/8" GR8
14	06380061	1	PUMP MNT
16	23152	1	PUMP
17	25341	4	CAPSCREW, 16MM X 70 MM
20	21733	4	CAPSCREW, 1/2" X 2" NC
21	06533004	4	FLATWASHER, 1/2" SAE, GR8
22	21727	4	NYLOCK NUT, 1/2" NC
24	06510083	1	VALVE, BRAKE, SOL, 3000PSI, METRI
25	21644	2	CAPSCREW, 3/8" X 5" NC
26	06505077	1	CAP, BREATHER, O-RING
27	TF4888	1	STREET ELBOW, 1/8"
28	6T0649	1	FILTER GAUGE

TRACTOR MOUNT KIT - HYDRAULICS FRONT PUMP

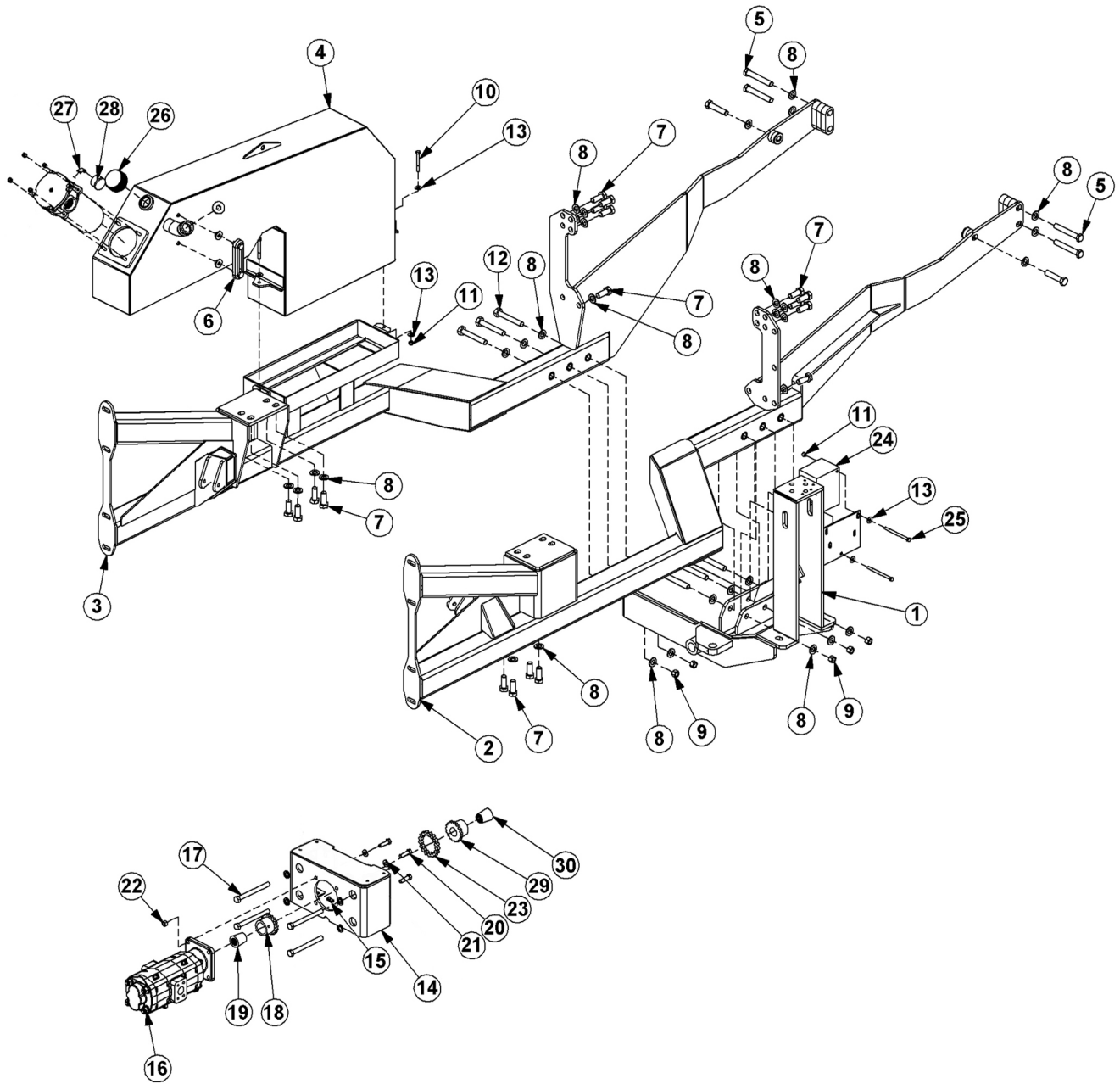


TRACTOR MOUNT KIT - HYDRAULICS FRONT PUMP

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	---	1	MAIN FRAME * REFER TO TRACTOR MOUNT KIT
2	06700091	1	TANK, HYDRAULIC, WHEEL WELL
3	06503084	1	ELBOW, 1-1/2" FOR X 1-1/2" FOR
4	06503083	1	ADAPTER, 1-1/2" MOR X 1-1/2" MOR
5	34309	1	BALL VALVE, 1-1/2" FOR
6	34710	1	ADAPTER, 1-1/2" MOR X 1-1/2" MJ
7	----	1	AXLE BRACE, LH * REFER TO TRACTOR MOUNT KIT
8	32382	2	BRACKET, HOSE
9	21632	1	CAPSCREW, 3/8" X 1-1/2", NC
10	22016	1	FLATWASHER, 3/8"
11	6411136	1	BRACKET, HOSE
12	21627	1	NYLOCK NUT, 3/8", NC
13	21832	1	CAPSCREW, 3/4" X 2", NC
14	21827	1	NYLOCK NUT, 3/4", NC
15	06500680	1	HOSE, 1-1/2" X 107"
16	TF4852	2	KIT, FLANGE, #20
17	23152	1	PUMP
18	6T0375B	1	COUPLING
19	06420166	1	DRIVE SHAFT
20	DLV32899	1	JOHN DEERE PULLEY KIT
21	T208891	1	JOHN DEERE BELT
22	06500274	1	HOSE, 1" X 74"
23	30708	1	CAPSCREW, 20MM X 90MM, 2.5P
24	33880	1	FLATWASHER, 3/4"
25	TB3012	2	CLAMP, HOSE
26	21727	1	NYLOCK NUT, 1/2", NC
27	22018	1	FLATWASHER, 1/2"
28	21732	1	CAPSCREW, 1/2" X 1-3/4"
29	34117	1	ELBOW, 1" MOR X 1" MJ
30	33554	1	ELBOW, 1" MOR X 1" MJ, 45°
31	06510083	1	BRAKE VALVE
32	33555	2	ADAPTER, 1" MOR X 1" MJ
33	33259	2	ELBOW, 1" MOR X 1" FJX90
34	06500683	1	HOSE, 1" X 96" (RETURN)
35	06500684	1	HOSE, 1" X 93 (PRESSURE)
36	---	1	AXLE BRACE, RH * REFER TO TRACTOR MOUNT KIT
37	06500747	1	HOSE, 1" X 115"
38	34064	1	ADAPTER, 1-1/4" MOR X 1" MJ

TRACTOR MOUNT KIT - REAR PUMP

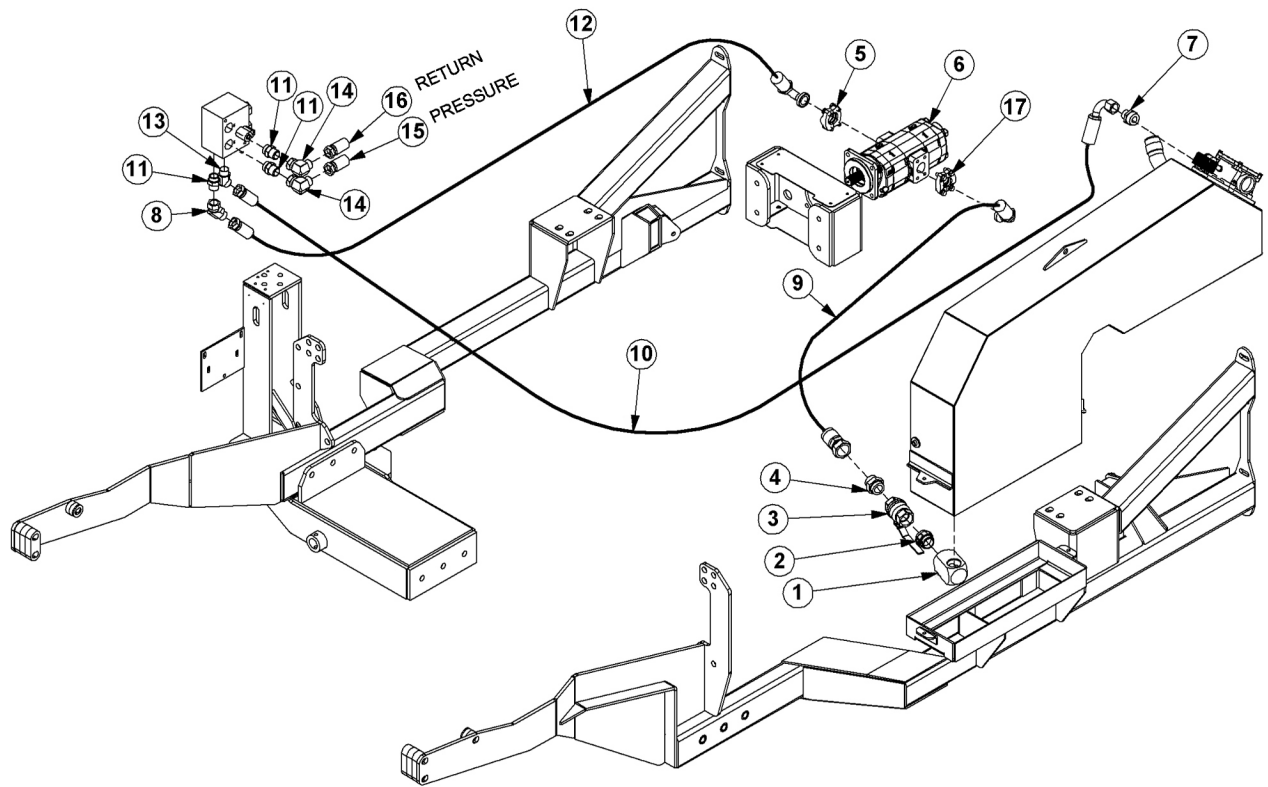


TRACTOR MOUNT KIT - REAR PUMP

Continued...

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

TRACTOR MOUNT KIT-HYDRAULICS REAR PUMP

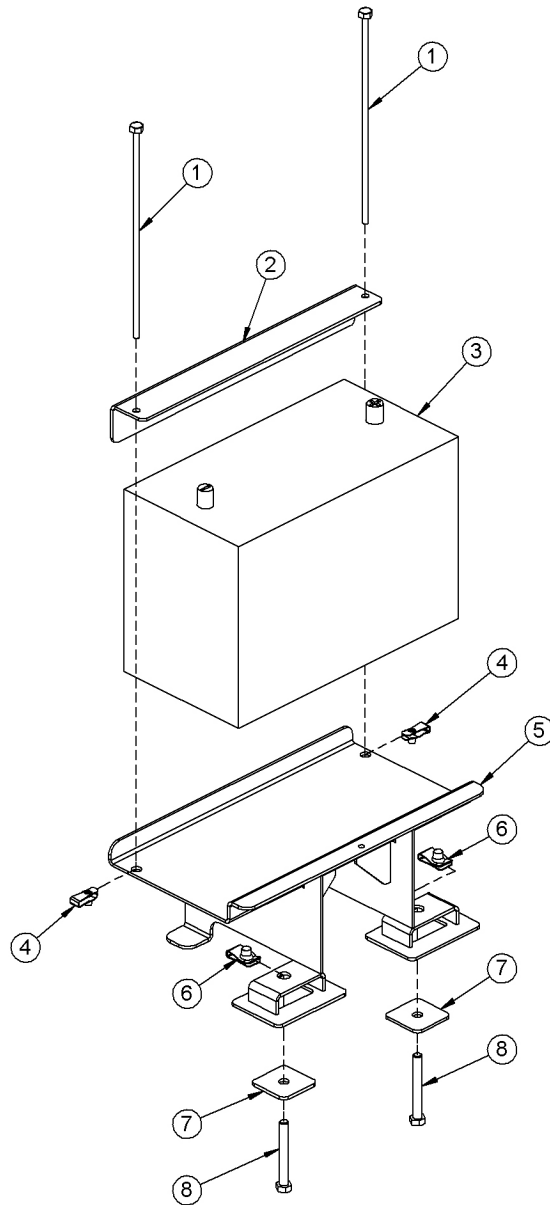


TRACTOR MOUNT KIT-HYDRAULICS REAR PUMP

Continued...

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

BATTERY RELOCATION

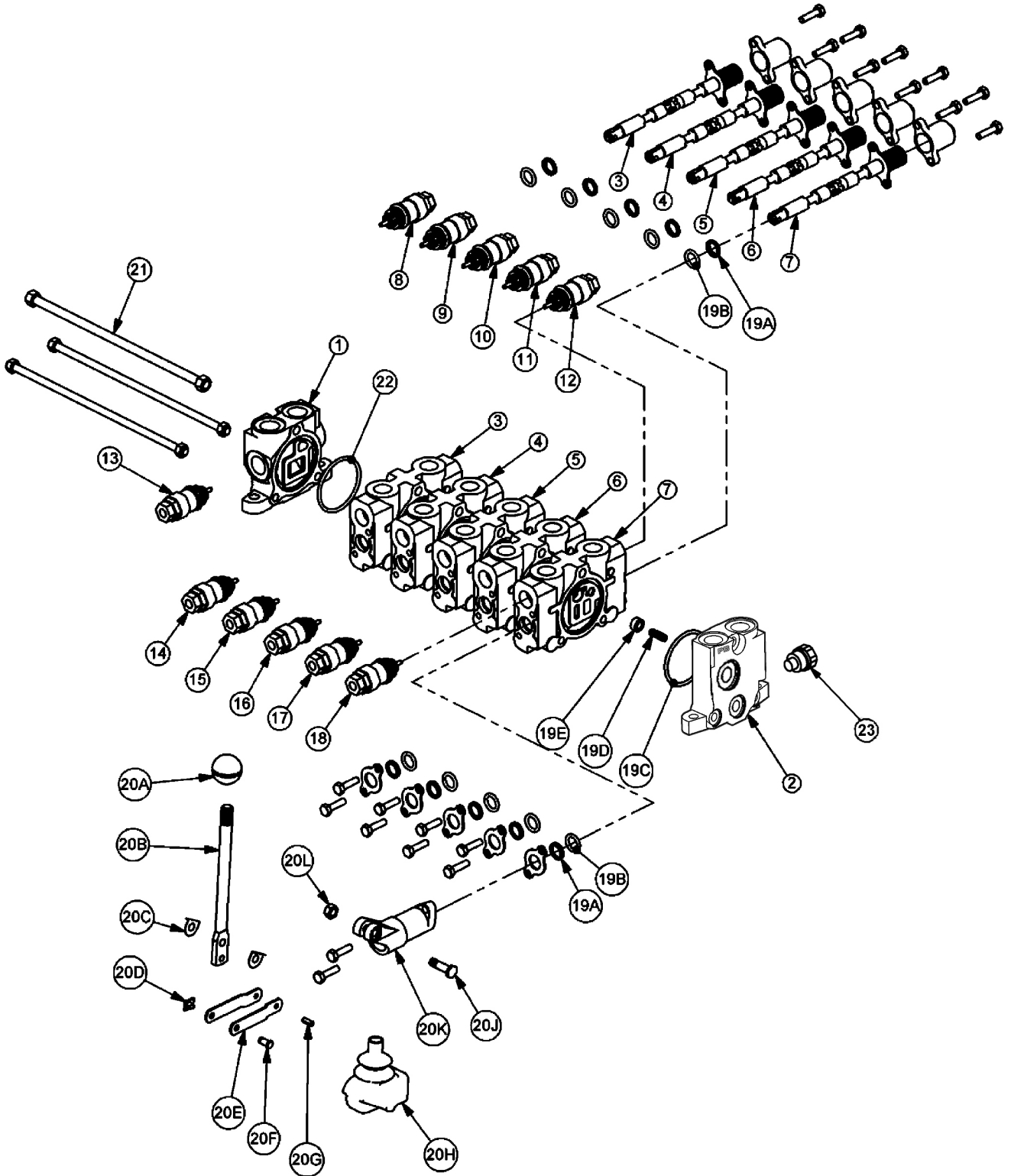


BATTERY RELOCATION

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	28752456	2	CAPSCREW,1/4" X 10",NC
2	06411429	1	ANGLE
3	-----	-	BATTERY *EXISTING PART
4	35176	2	NUT CLIP,1/4",NC
5	06370231	1	RELOCATION BRACKET
6	06537029	2	NUT CLIP,3/8",NC
7	064239: 6	2	SQUARE PLATE
8	21638	2	CAPSCREW,3/8" X 3",NC

CABLE (MANUAL) LIFT VALVE BREAKDOWN-06502116



JD6XXXD BENGAL BRUTE

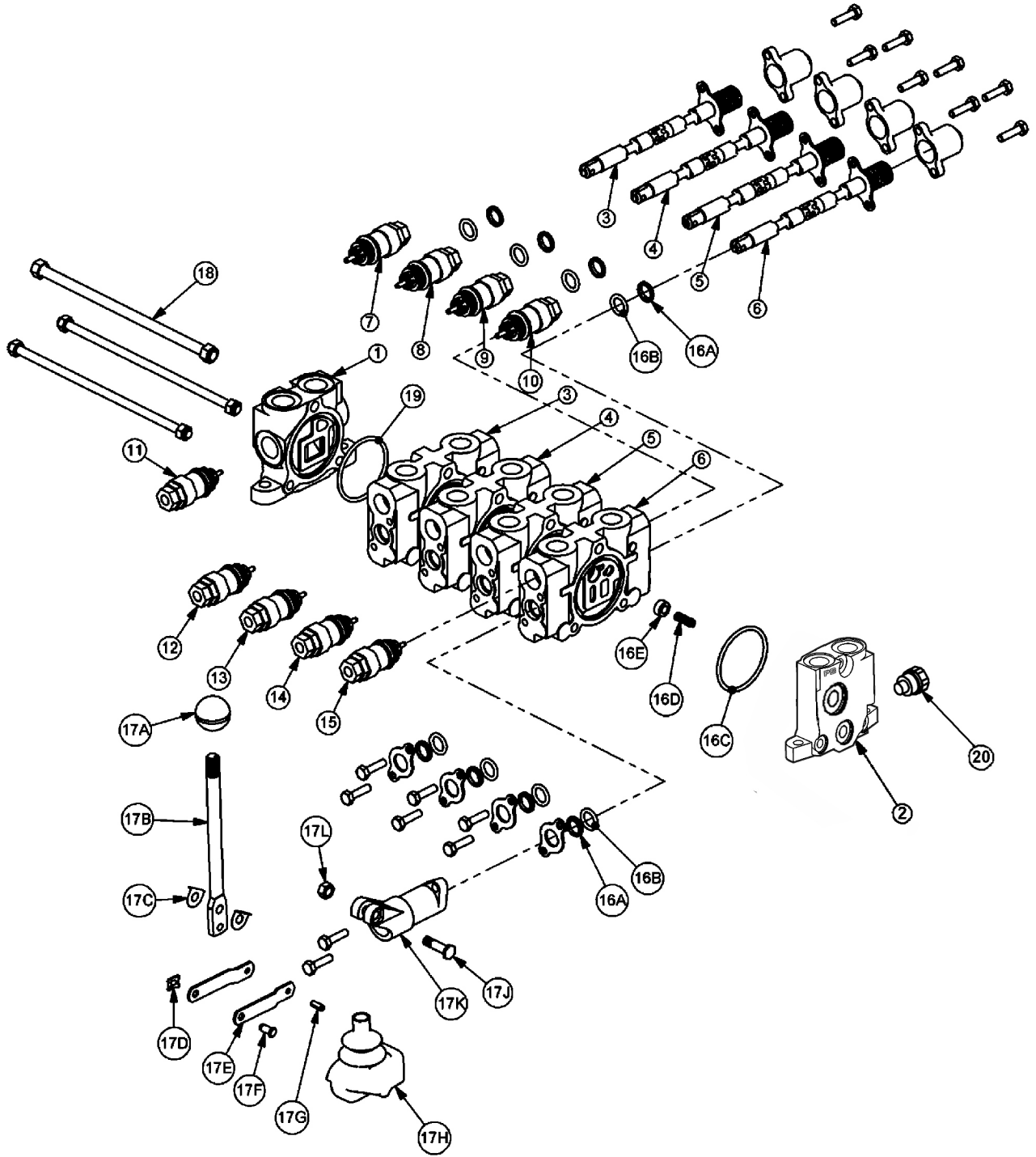
CABLE (MANUAL) LIFT VALVE BREAKDOWN-06502116

Continued...

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

JD6XXXD BENGAL BRUTE

CABLE (MANUAL) LIFT VALVE BREAKDOWN-06502117

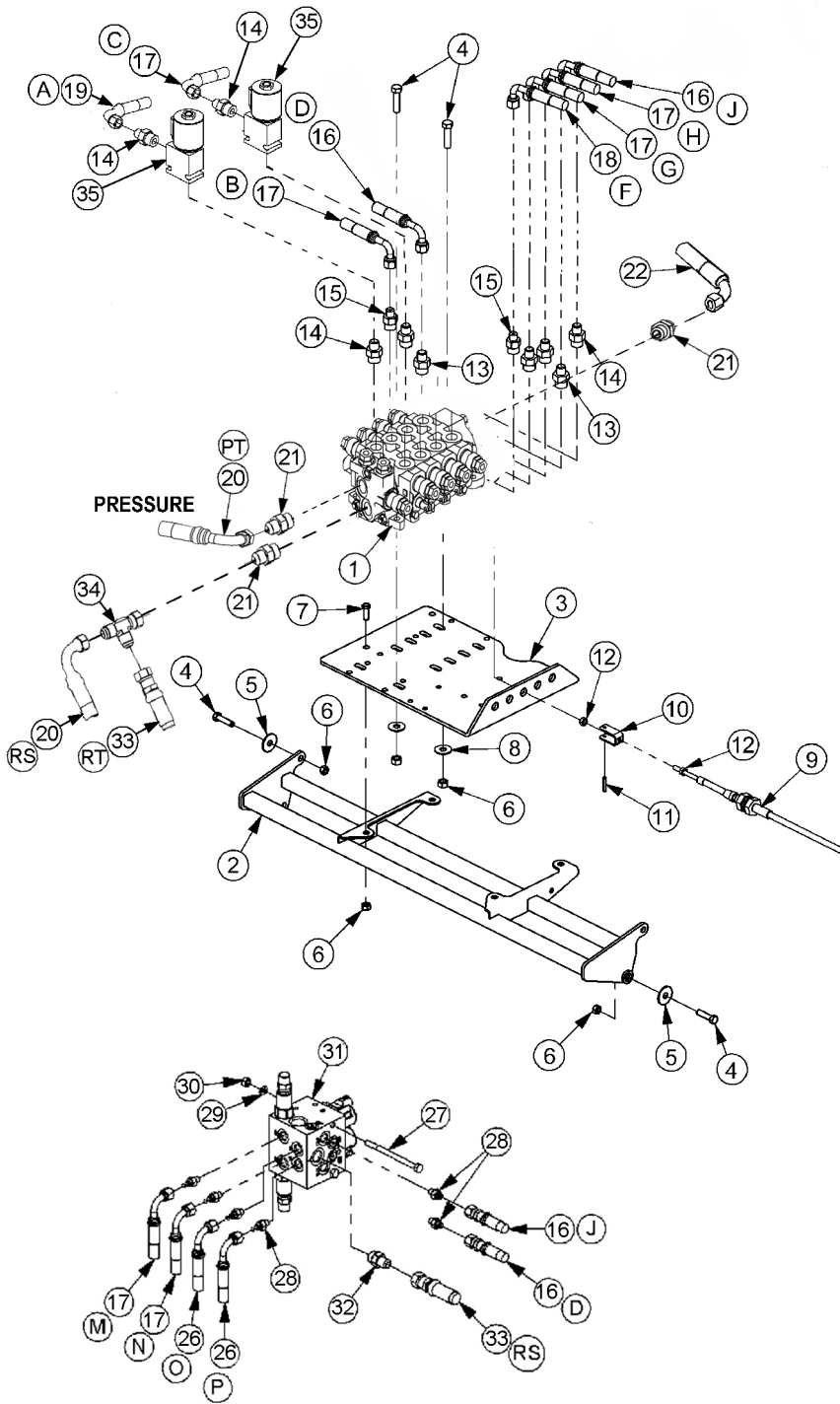


CABLE (MANUAL) LIFT VALVE BREAKDOWN-06502117

Continued...

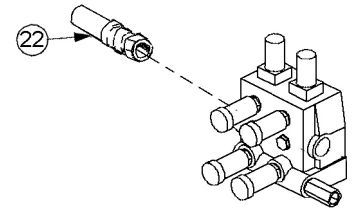
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502149	1	INLET END COVER
2	06502150	1	END COVER, OPEN CENTER
3	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TF3009	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
6	TB1017Q	1	VALVE SECTION (DOUBLE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

CABLE (MANUAL) LIFT VALVE MOUNT - 4 SPOOL

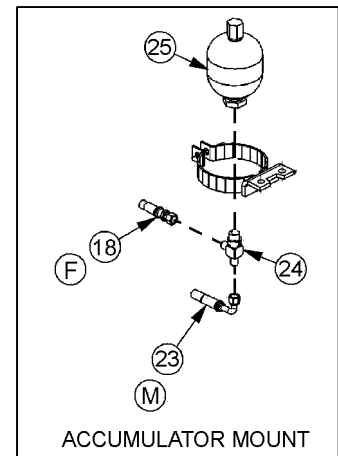


HOSE ROUTING

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



REAR REMOTES



ACCUMULATOR MOUNT

SELECTOR VALVE

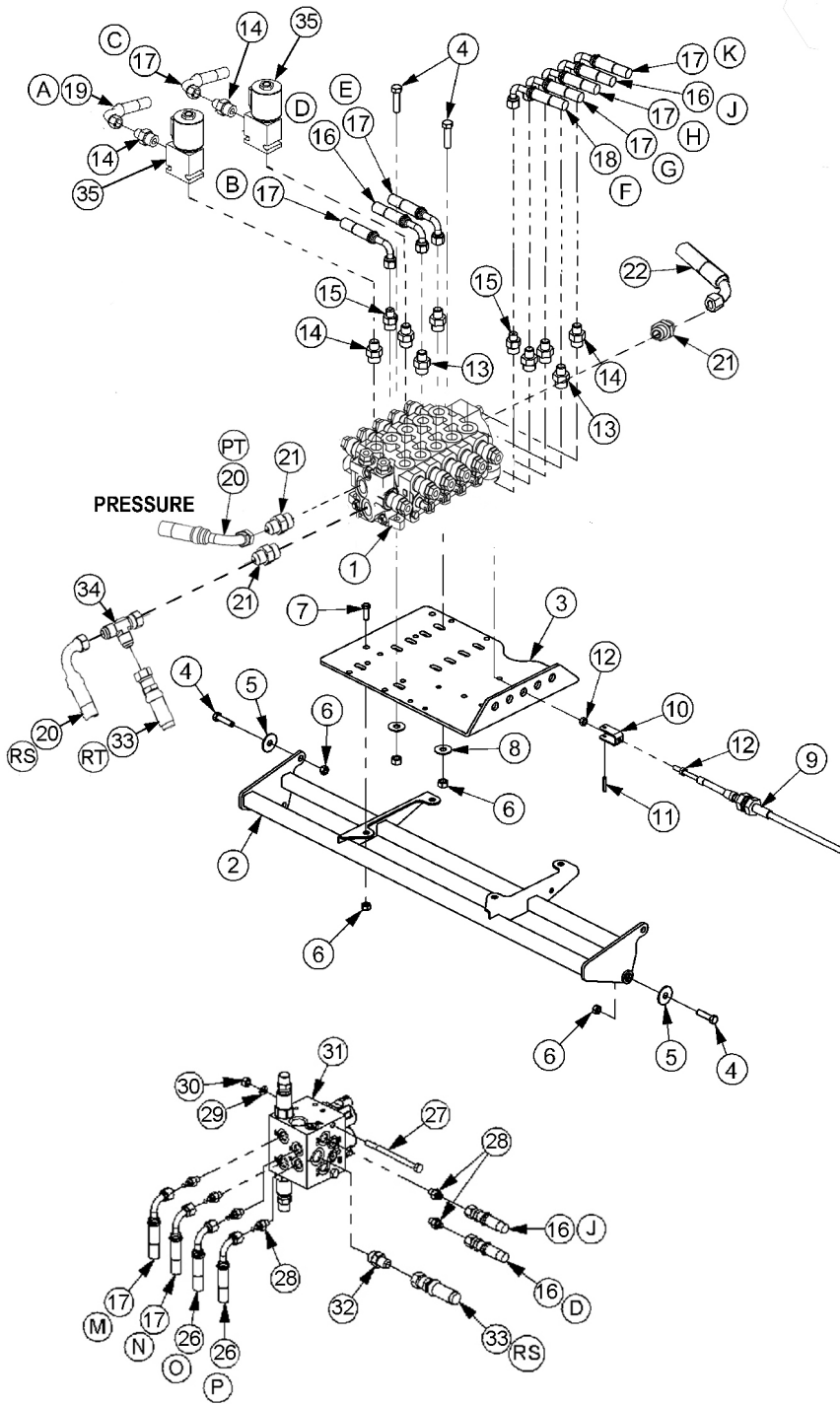
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502117	1	VALVE, 4SP
2	06340033	1	VALVE MNT
3	34622	1	PLATE, VALVE, REAR MNT

CABLE (MANUAL) LIFT VALVE MOUNT - 4 SPOOL

Continued...

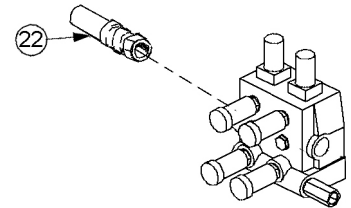
ITEM	PART NO.	QTY.	DESCRIPTION
4	21632	8	CAPSCREW,3/8" X 1-1/2",NC
5	6T2615	4	WASHER,FENDER,3/8"
6	21627	12	NYLOCK NUT,3/8",NC
7	21630	4	CAPSCREW,3/8" X 1",NC
8	22016	4	FLATWASHER,3/8"
9	06505100	5	CBL,CNTRL,108"
10	6T4411	5	CLEVIS,CBL CTRL,3/16"
11	6T3017	5	ROLLPIN,3/16" X 1"
12	21500	10	HEX NUT,1/4",NF
13	34396	2	ADAPTER,.06"RSTRCTR,1/2"MOR X 3/8"MJ
14	33271	4	ADAPTER,1/2"MOR X 3/8"MJ
15	06502036	2	VLV,CHECK,W/.06"MOR X 1/2"MOR X 3/8"
16	33364	2	HOSE,1/4" X 120"
17	34358	4	HOSE,1/4" X 196"
18	33562	1	HOSE,1/4" X 130"
19	06500164	1	HOSE,1/4" X 216"
20	06500782	2	HOSE, 1-1/2" X 70"
21	06503023	3	ADAPTER, 3/4" ORB X 3/4" MJ
22	06500783	1	HOSE, 1-1/2" X 30"
23	33745	1	HOSE,1/4" X 100"
24	06503029	-	TEE,RUN,1/2"MOR X 3/8"MJ X 3/8"MJ
25	24300	1	ACCUMULATOR
26	33364	2	HOSE, 1/4" X 120"
27	21593	1	CAPSCREW, 5/16" X 4-1/2", NC
28	32901	6	ADAPTER, 3/8" MOR X 3/8" MJ
29	21987	1	LOCKWASHER, 5/16"
30	21525	1	HEX NUT,5/16",NC
31	06502055	1	VLV, SELECTOR
32	33528	1	ADAPTER, 1/2" MB X 1/2" MJ
33	6T3992	1	RUN TEE, 1/2" MJ X 1/2" FJX X 1/2" MJ
34	33488	1	HOSE, 1/2" X 25"
35	06510050	2	TRVL LCK, METRIPACK COIL

CABLE (MANUAL) LIFT VALVE MOUNT - 5 SPOOL

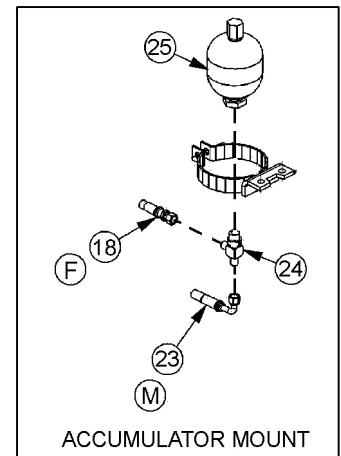


HOSE ROUTING

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



REAR REMOTES



ACCUMULATOR MOUNT

SELECTOR VALVE

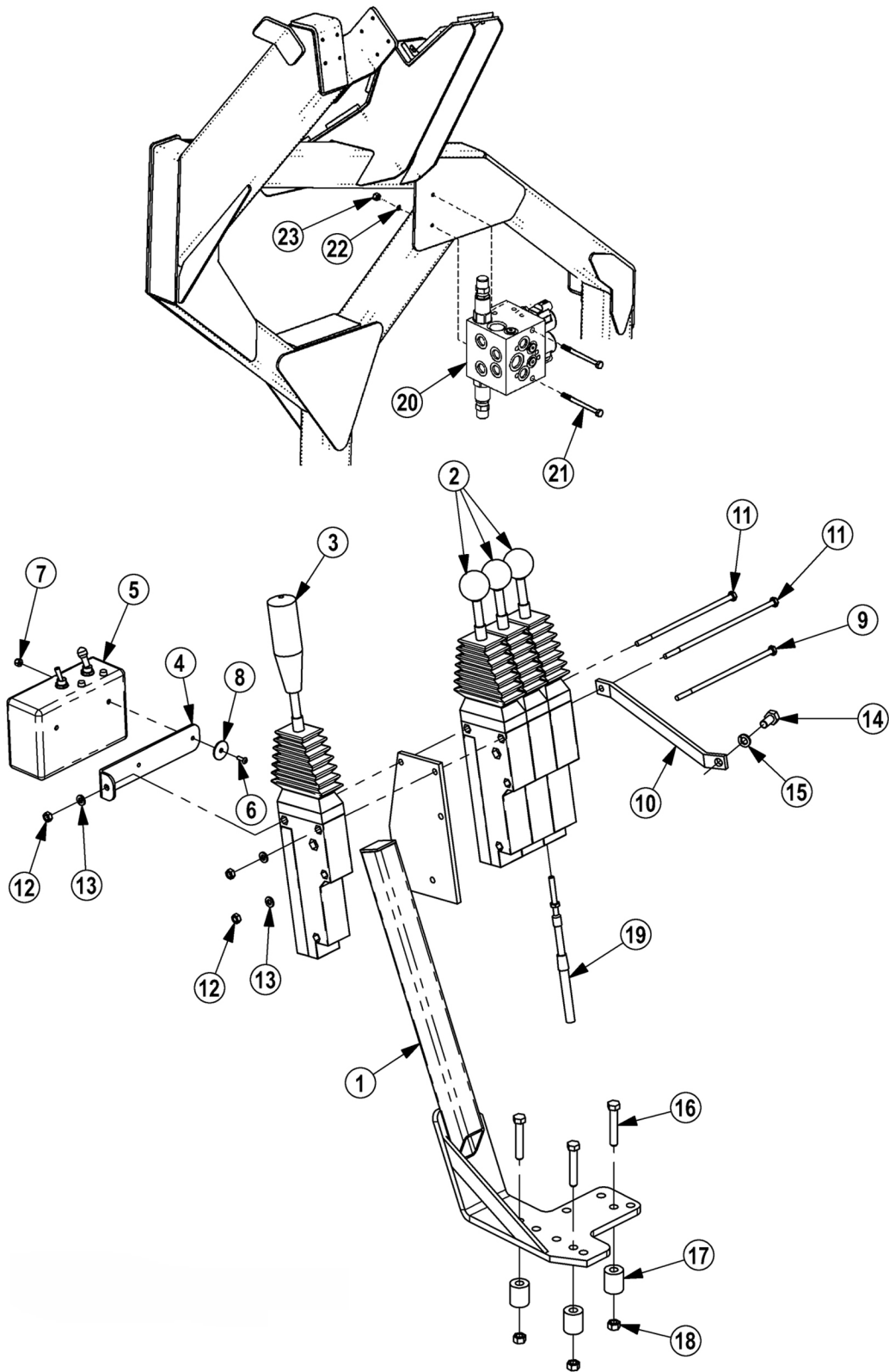
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502116	1	VALVE,5SP
2	06340033	1	VALVE MNT
3	34622	1	PLATE, VALVE, REAR MNT

CABLE (MANUAL) LIFT VALVE MOUNT - 5 SPOOL

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
4	21632	8	CAPSCREW,3/8" X 1-1/2",NC
5	6T2615	4	WASHER,FENDER,3/8"
6	21627	12	NYLOCK NUT,3/8",NC
7	21630	4	CAPSCREW,3/8" X 1",NC
8	22016	4	FLATWASHER,3/8"
9	06505100	5	CBL,CNTRL,108"
10	6T4411	5	CLEVIS,CBL CTRL,3/16"
11	6T3017	5	ROLLPIN,3/16" X 1"
12	21500	10	HEX NUT,1/4",NF
13	34396	2	ADAPTER,.06"RSTRCTR,1/2"MOR X 3/8"MJ
14	33271	6	ADAPTER,1/2"MOR X 3/8"MJ
15	06502036	2	VLV,CHECK,W/.06"MOR X 1/2"MOR X 3/8"
16	33364	2	HOSE,1/4" X 120"
17	34358	6	HOSE,1/4" X 196"
18	33562	1	HOSE,1/4" X 130"
19	06500164	1	HOSE,1/4" X 216"
20	06500782	2	HOSE, 1-1/2" X 70"
21	06503023	3	ADAPTER, 3/4" ORB X 3/4" MJ
22	06500783	1	HOSE, 1-1/2" X 30"
23	33745	1	HOSE,1/4" X 100"
24	06503029	-	TEE,RUN,1/2"MOR X 3/8"MJ X 3/8"MJ
25	24300	1	ACCUMULATOR
26	33364	2	HOSE, 1/4" X 120"
27	21593	1	CAPSCREW, 5/16" X 4-1/2", NC
28	32901	6	ADAPTER, 3/8" MOR X 3/8" MJ
29	21987	1	LOCKWASHER, 5/16"
30	21525	1	HEX NUT,5/16",NC
31	06502055	1	VLV, SELECTOR
32	33528	1	ADAPTER, 1/2" MB X 1/2" MJ
33	6T3992	1	RUN TEE, 1/2" MJ X 1/2" FJX X 1/2" MJ
34	33488	1	HOSE, 1/2" X 25"
35	06510050	2	TRVL LCK, METRIPACK COIL

4 SPOOL CABLE CONTROL MOUNT

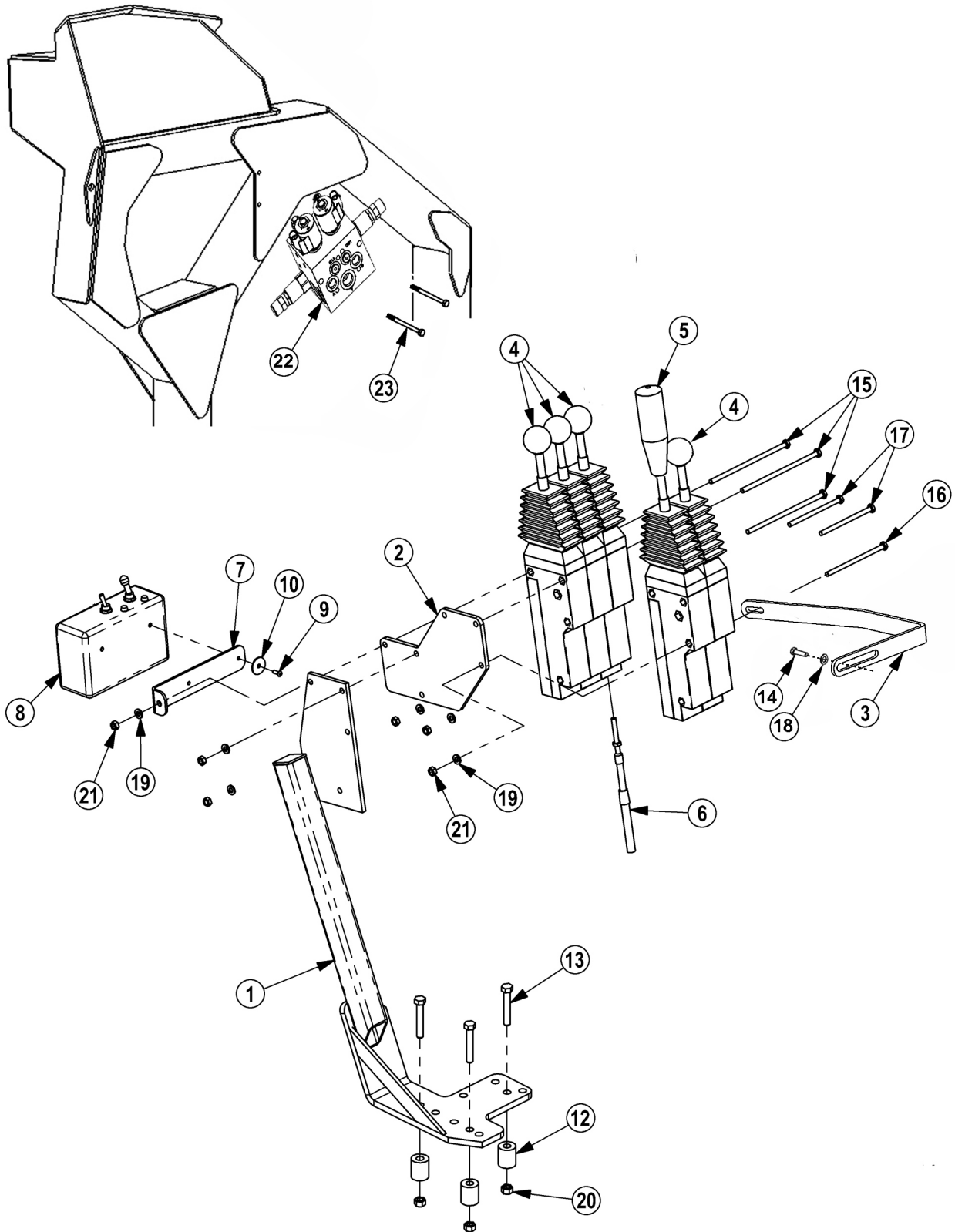


4 SPOOL CABLE CONTROL MOUNT

Continued...

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

5 SPOOL CABLE CONTROL MOUNT

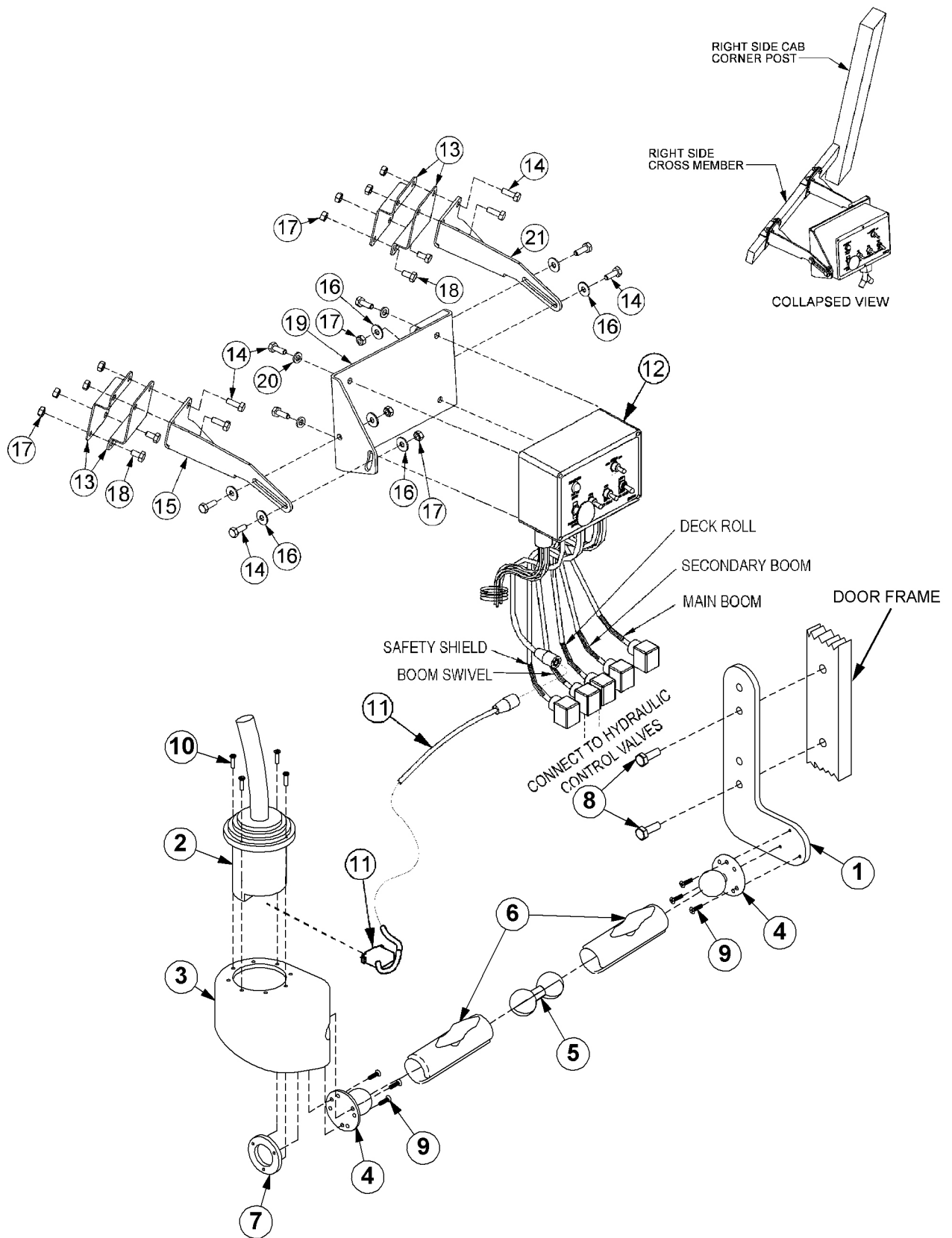


5 SPOOL CABLE CONTROL MOUNT

Continued...

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

JOYSTICK AND SWITCHBOX MOUNT



JOYSTICK AND SWITCHBOX MOUNT

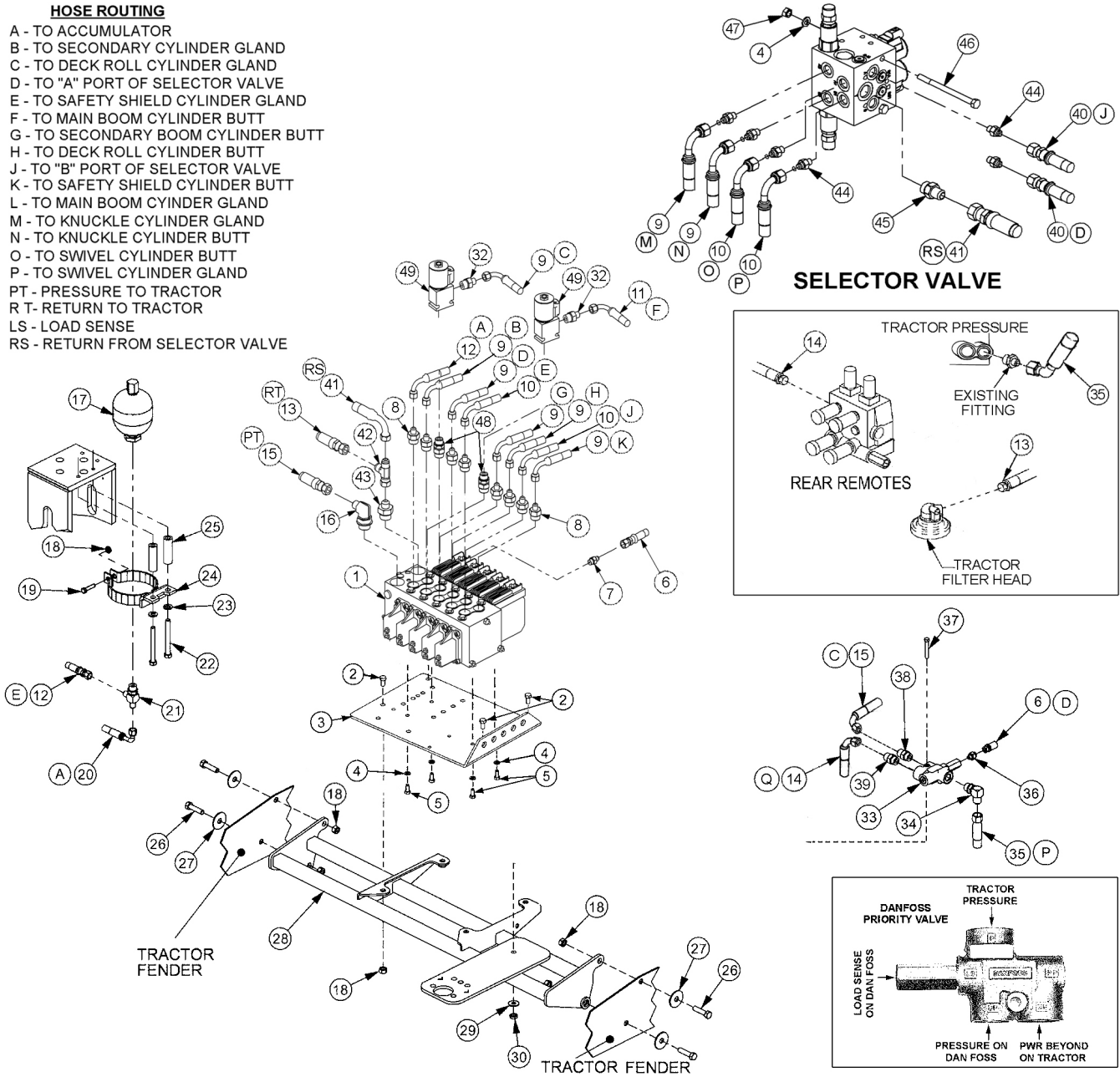
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ITEM	PART NO.	QTY.	DESCRIPTION
1	06340031	1	MT,BRKT,JYSTK
2	06510046	1	JOYSTICK
3	06770022	1	CAN,JOYSTICK
4	06520019	2	MOUNT,RAM BALL,1-1/2",FLANGE
5	06520290	1	MOUNT,RAM,BALL,DBL,1-1/2"
6	06520020	2	MOUNT,RAM,ARM,1-1/2" X 4-5/8",STD
7	06400882	1	RING,BOLT,MNT,JYSTK
8	23113	2	CAPSCREW,10MM X 30MM,1.5P
9	32990	6	SCREW,MACHINE,10-32 X 1/2",RD HD
10	32829	4	SCREW,MACHINE,10-32 X 3/4",FLT HD
11	33693	1	CBL,EXT,4FT
12	06510195	1	SWITCH BOX,DF, RS
13	06411086	4	BRKT,MNT
14	21529	8	CAPSCREW,1/4" X 3/4",NC
15	06411087	1	BRKT,STABILIZING,LT
16	22014	8	FLATWASHER,1/4"
17	21527	12	NYLOCK NUT,1/4",NC
18	21528	4	CAPSCREW,1/4" X 1/2",NC
19	06411116	1	BRKT,MNT,SWITCH BOX
20	21986	4	LOCKWASHER,1/4"
21	06411378	1	BRKT,STABILIZING,RT

JOYSTICK LIFT VALVE MOUNT

HOSE ROUTING

- A - TO ACCUMULATOR
- B - TO SECONDARY CYLINDER GLAND
- C - TO DECK ROLL CYLINDER GLAND
- D - TO "A" PORT OF SELECTOR VALVE
- E - TO SAFETY SHIELD CYLINDER GLAND
- F - TO MAIN BOOM CYLINDER BUTT
- G - TO SECONDARY BOOM CYLINDER BUTT
- H - TO DECK ROLL CYLINDER BUTT
- J - TO "B" PORT OF SELECTOR VALVE
- K - TO SAFETY SHIELD CYLINDER BUTT
- L - TO MAIN BOOM CYLINDER GLAND
- M - TO KNUCKLE CYLINDER GLAND
- N - TO KNUCKLE CYLINDER BUTT
- O - TO SWIVEL CYLINDER BUTT
- P - TO SWIVEL CYLINDER GLAND
- PT - PRESSURE TO TRACTOR
- R - RETURN TO TRACTOR
- LS - LOAD SENSE
- RS - RETURN FROM SELECTOR VALVE



ITEM	PART NO.	QTY.	DESCRIPTION
1	06502097	1	ELECTRONIC VALVE
2	21630	4	CAPSCREW, 3/8" X 1", NC
3	34622	1	PLATE, VALVE, REAR MNT
4	21987	5	LOCKWASHER, 5/16"
5	21579	4	CAPSCREW, 5/16" X 3/4", NC
6	06500789	1	HOSE, 3/8" X 60"
7	33392	1	ADAPTER, 5/16" MB X 3/8" MJ
8	32807	10	ADAPTER, 5/8" MB X 3/8" MJ

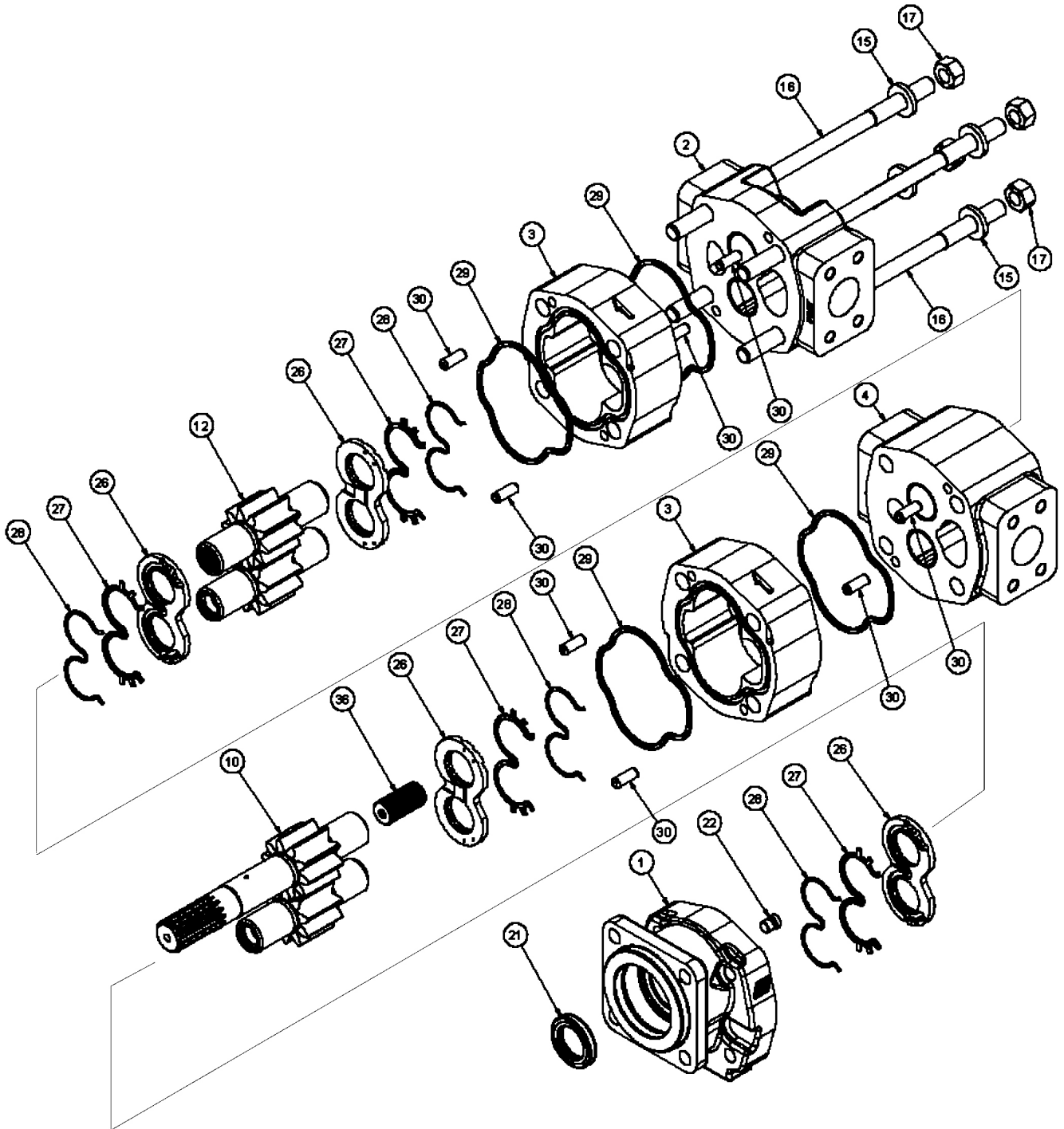
JOYSTICK LIFT VALVE MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
9	34358	8	HOSE,1/4" X 196"
10	33364	2	HOSE,1/4" X 120"
11	06500164	1	HOSE,1/4" X 216"
12	33562	1	HOSE,1/4" X 130"
13	06500788	1	HOSE,3/4" X 52"
14	06500786	1	HOSE, 3/4" X 52"
15	06500787	1	HOSE, 3/4" X 40"
16	33280	1	ELBOW,3/4" MJ X 3/4" MB ADJUSTABLE
17	24300	2	ACCUMULATOR
18	21627	9	NYLOCK NUT,3/8",NC
19	-----	-	CAPSCREW *REFER TO BOOM MNT KIT PAGE
20	33745	1	HOSE,1/4" X 100"
21	06503029	1	TEE,RUN,1/2" MB X 3/8" MJ X 3/8" MJ
22	-----	-	CAPSCREW *REFER TO BOOM MNT KIT PAGE
23	-----	-	LOCKWASHER *REFER TO BOOM MNT KIT PAGE
24	-----	-	BRKT *REFER TO BOOM MNT KIT PAGE
25	-----	-	SPACER *REFER TO BOOM MNT KIT PAGE
26	21632	4	CAPSCREW,3/8" X 1-1/2",NC
27	6T2615	4	WASHER,FENDER,3/8"
28	06340033	1	VALVE MOUNT
29	22015	1	FLATWASHER,5/16"
30	21577	1	NYLOCK NUT,5/16",NC
31	06503035	1	TEE,5/8" MJ X 5/8" FJ X 5/8" MJ
32	33271	2	ADAPTER, 1/2" MOR X 3/8" MJ
33	06502102	1	PRIORITY VALVE
34	06503033	1	ELBOW,5/8" MB X 5/8" MJ
35	06500785	1	HOSE,5/8" X 46"
36	06503057	1	ADAPTER,1/4" MB X 3/8" MJ
37	21585	1	CAPSCREW,5/16" X 2-1/2"
38	06503006	1	ADAPTER, 1/2" MORB X 3/4" MJ
39	06503188	1	ADAPTER,5/8" MB X 3/4" MJ
40	33411	2	HOSE, 1/2" X 24"
41	33410	1	HOSE, 1/2" X 48"
42	30009	1	TEE, 3/4" FJ X 3/4" MJ X 3/4" MJ
43	06503189	1	ADAPTER, 3/4" FJ X 5/8" MJ
44	32901	6	ADAPTER, 3/8" MOR X 3/8" MJ
45	33528	1	ADAPTER, 1/2" MOR X 1/2" MJ
46	21593	1	CAPSCREW, 5/16" X 4-1/2" NC
47	21575	1	HEX NUT 5/16" NC
49	06510050	2	TRAVEL LOCK
48	31611	2	ADAPTER, 5/8" MOR X 1/2" ADJ MOR

JD6XXXD BENGAL BRUTE

REAR HYDRAULIC PUMP 06504131

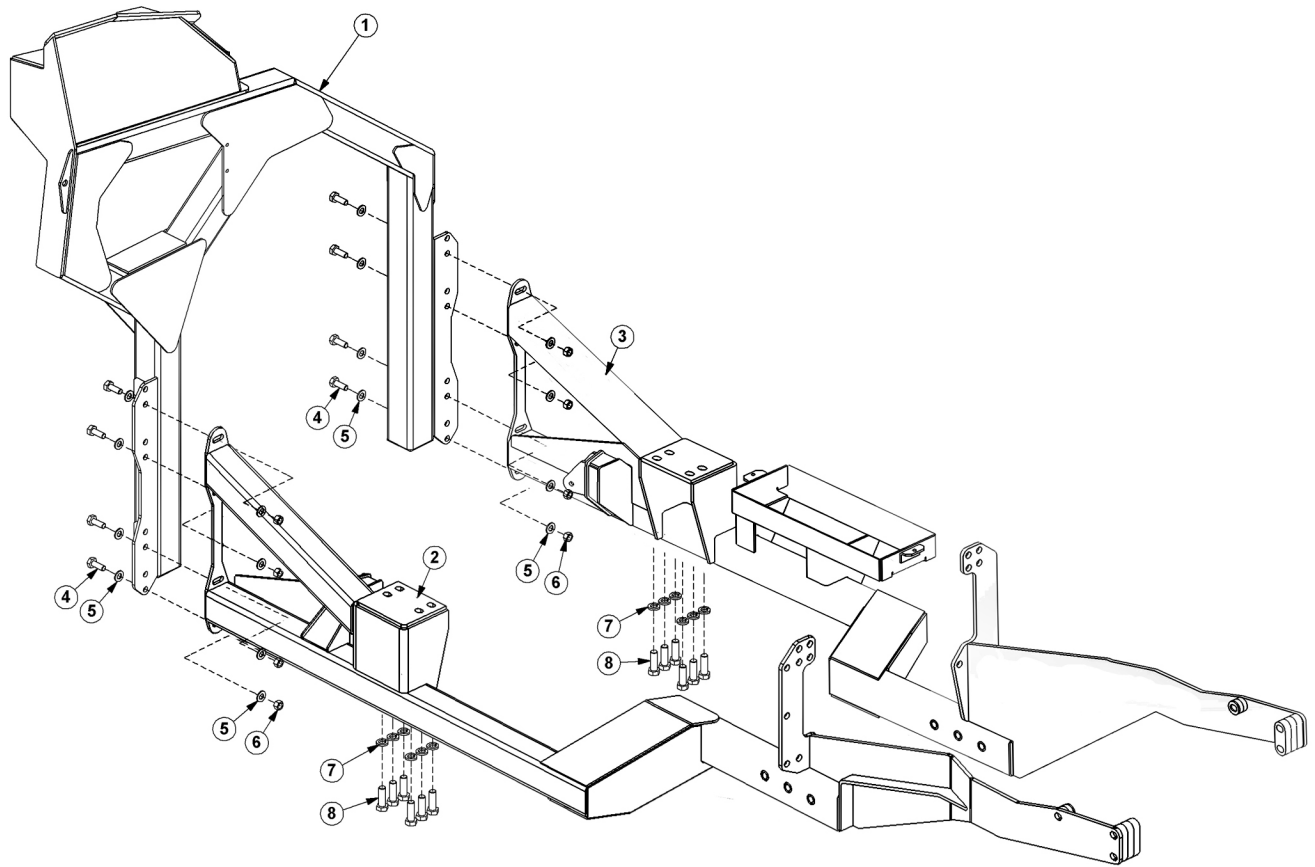


REAR HYDRAULIC PUMP 06504131

Continued...

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

BOOMREST AND AXLE BRACES

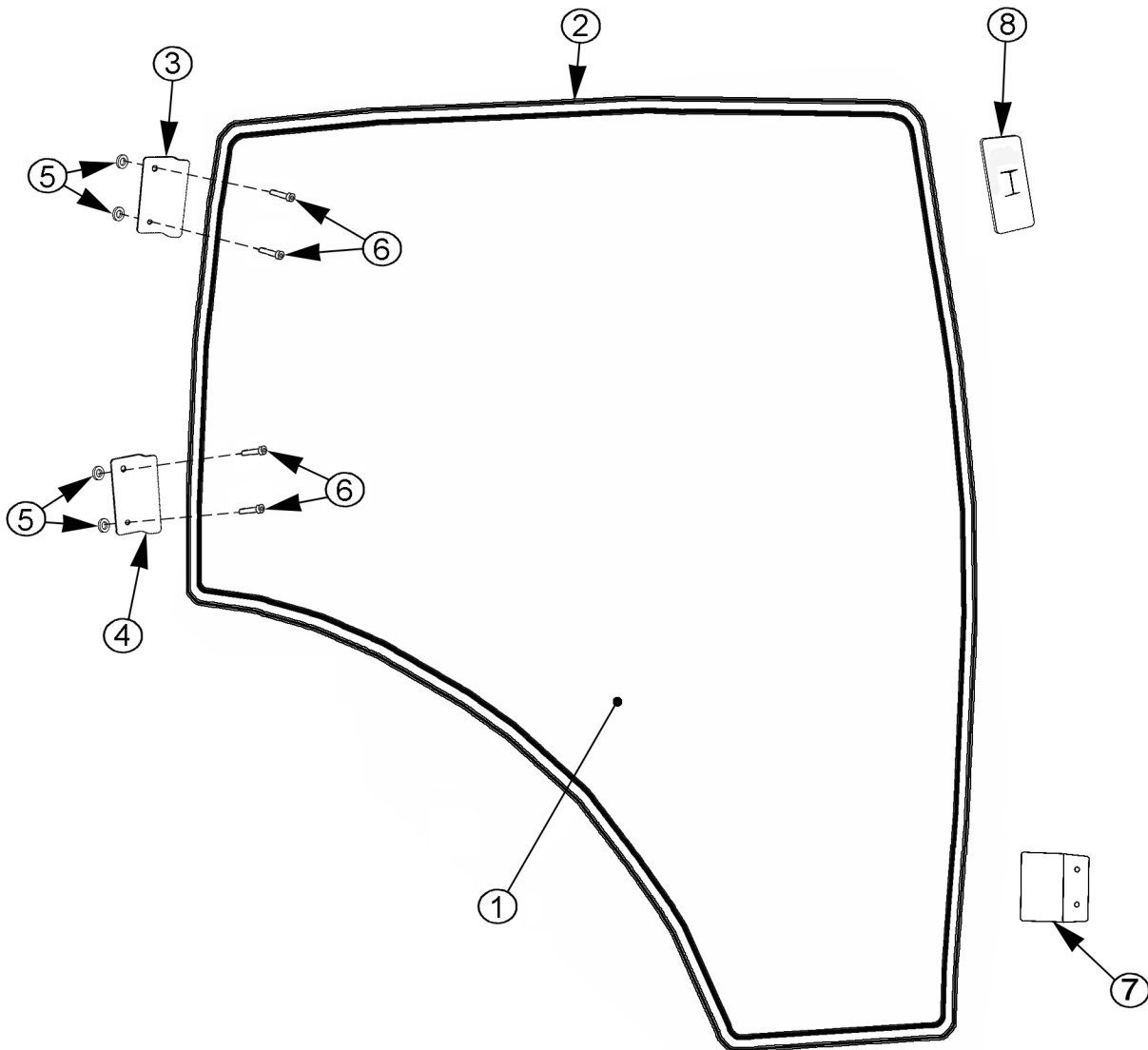


BOOMREST AND AXLE BRACES

Continued...

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

PANORAMIC POLYCARBONATE SAFETY WINDOW



PANORAMIC POLYCARBONATE SAFETY WINDOW

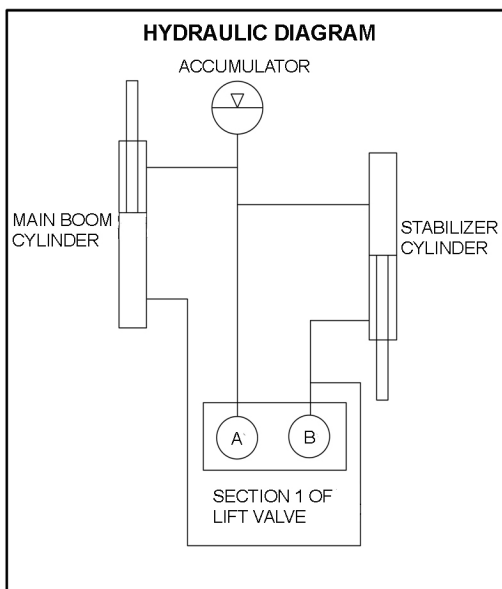
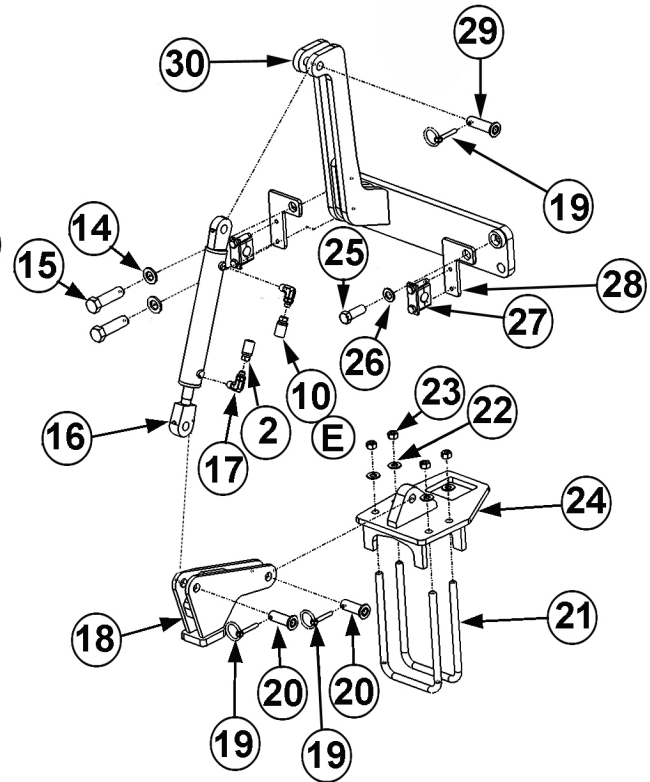
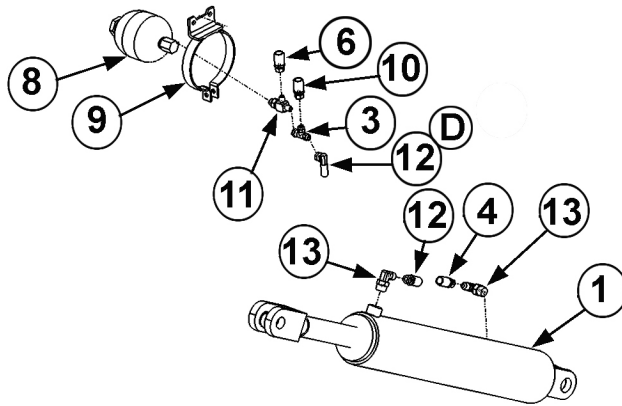
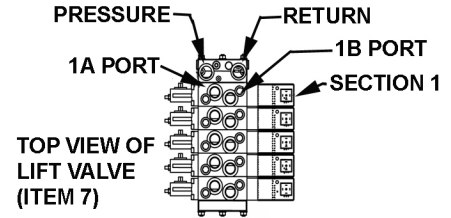
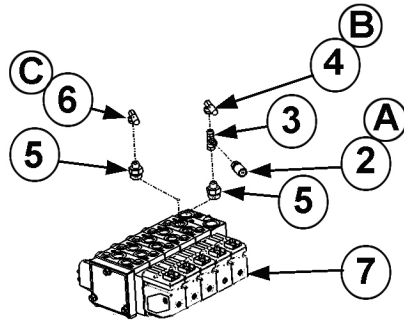
Continued...

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

FRONT AXLE STABILIZER OPTION

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



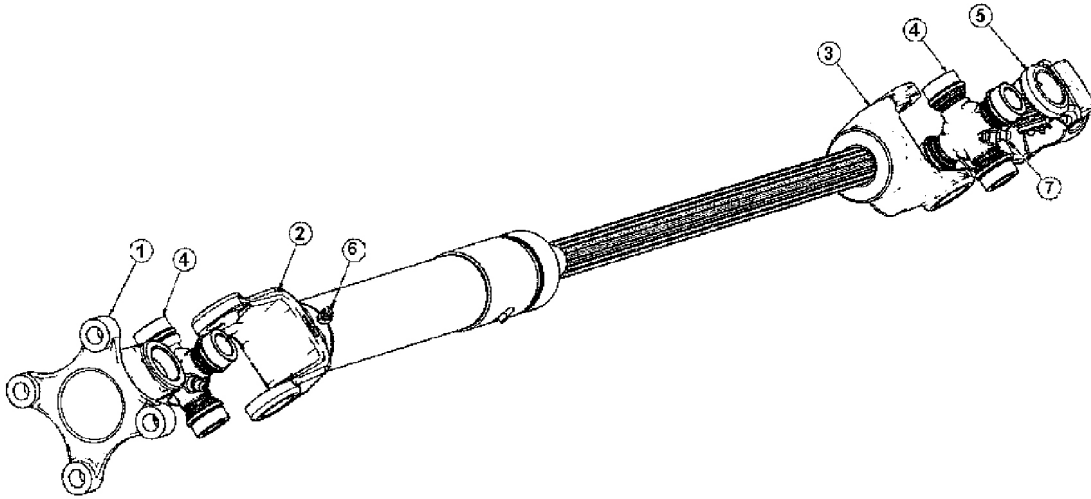
LOCATE HOLE IN ITEM 24 AROUND AXLE STOP ON RIGHT FRONT AXLE.
 USE ITEMS 21, 22, & 23 TO CLAMP ITEM 24 TO AXLE.
 AFTER INSTALLATION, ARTICULATE FRONT AXLE FROM STOP TO STOP AND EXTEND AND RETRACT CYLINDER FULLY TO ENSURE A PROPER FIT.

FRONT AXLE STABILIZER OPTION

Continued...

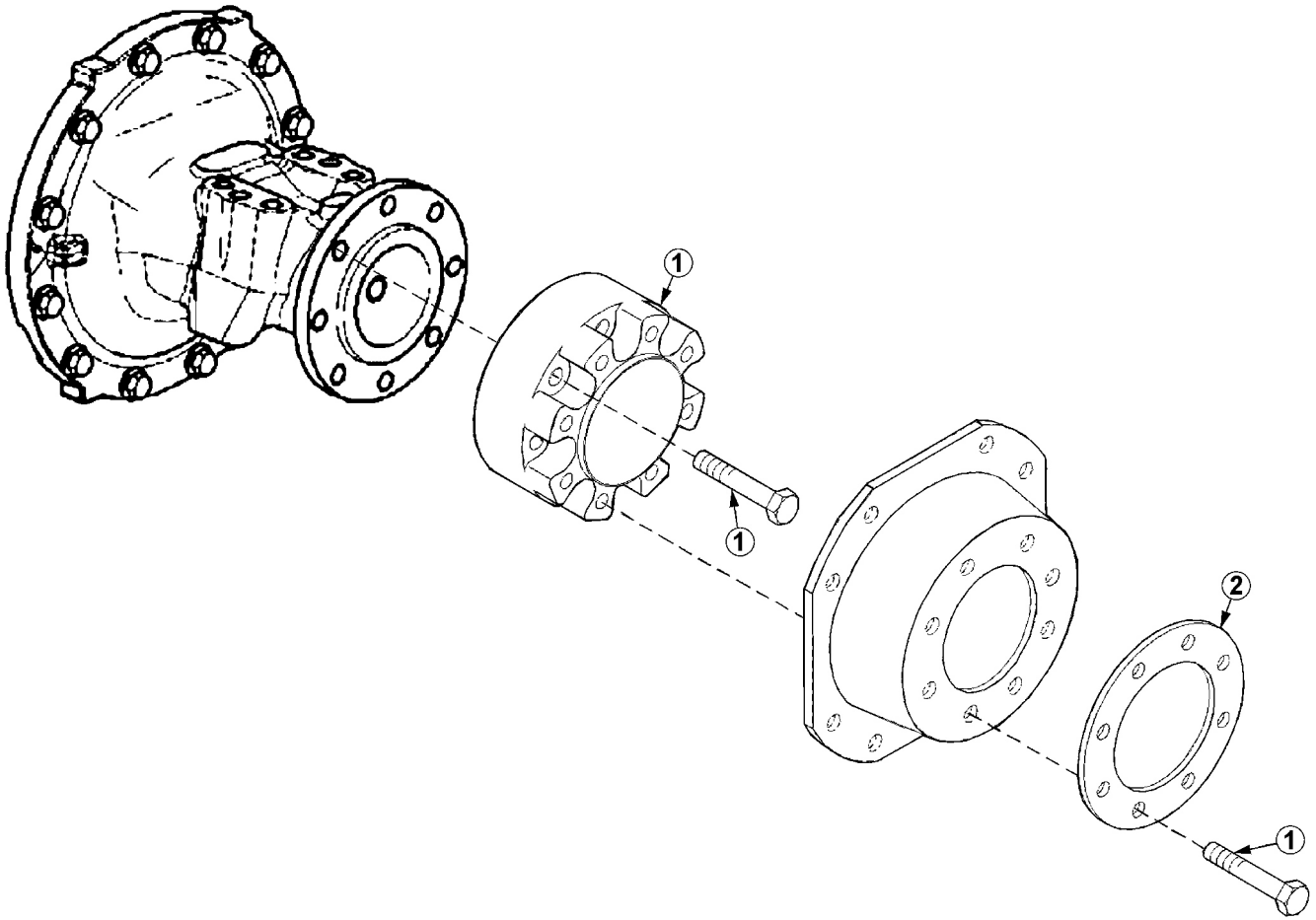
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	BOOM CYLINDER *REFER TO COMMON SECTION
2	06500149	1	HOSE,1/4" X 220"
3	06503048	2	RUN TEE,3/8"MJ X 3/8"FJX X 3/8"MJ
4	-----	-	HOSE *REFER TO LIFT VALVE PAGE
5	-----	-	ADAPTER *REFER TO LIFT VALVE PAGE
6	-----	-	HOSE *REFER TO LIFT VALVE PAGE
7	-----	-	LIFT VALVE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

PUMP DRIVESHAFT BREAKDOWN



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

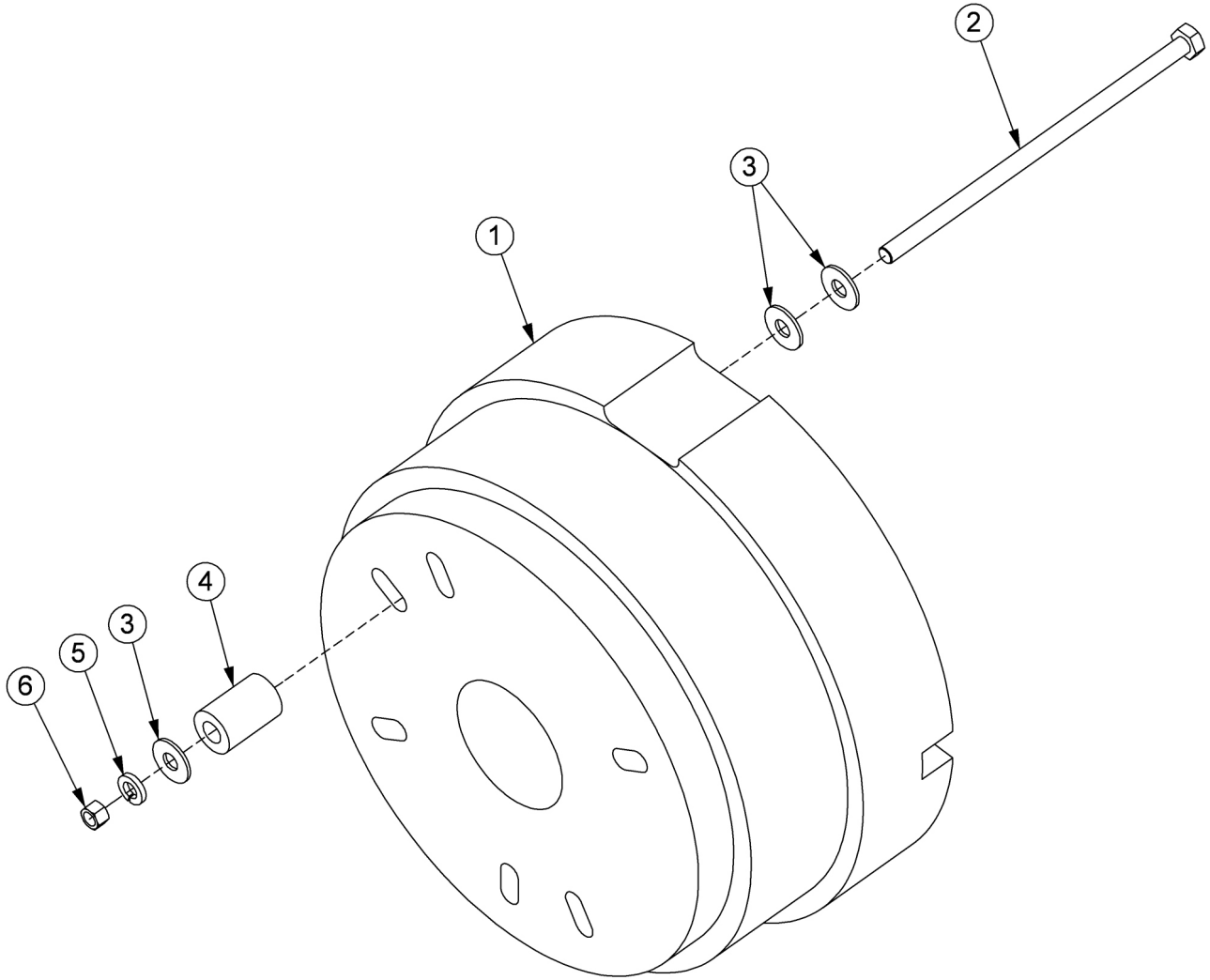
WHEEL SPACER



ITEM	PART NO.	QTY.	DESCRIPTION
1	06770025	1	KIT,SPCR,WHL,JD
2	06400919	1	RING,SPACER,WHEEL,JD

JD6XXXD BENGAL BRUTE

WHEEL WEIGHT



ITEM	PART NO.	QTY.	DESCRIPTION
1	06102283	1	WHEEL WEIGHT, 1300, JD6D
2	31455	3	CAPSCREW, 3/4" X 17", NC
3	33626	9	FLATWASHER, 3/4", USS
4	06430148	3	SPACER, 2"
5	21993	3	LOCKWASHER, 3/4"
6	21825	3	HEX NUT, 3/4", NC

JD6XXXD BENGAL BRUTE

COMMON LEGAL REAR STOW T4

PARTS SECTION

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COMMON LEGAL REAR STOW T4

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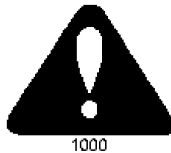
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PARTS ORDERING GUIDE

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

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

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

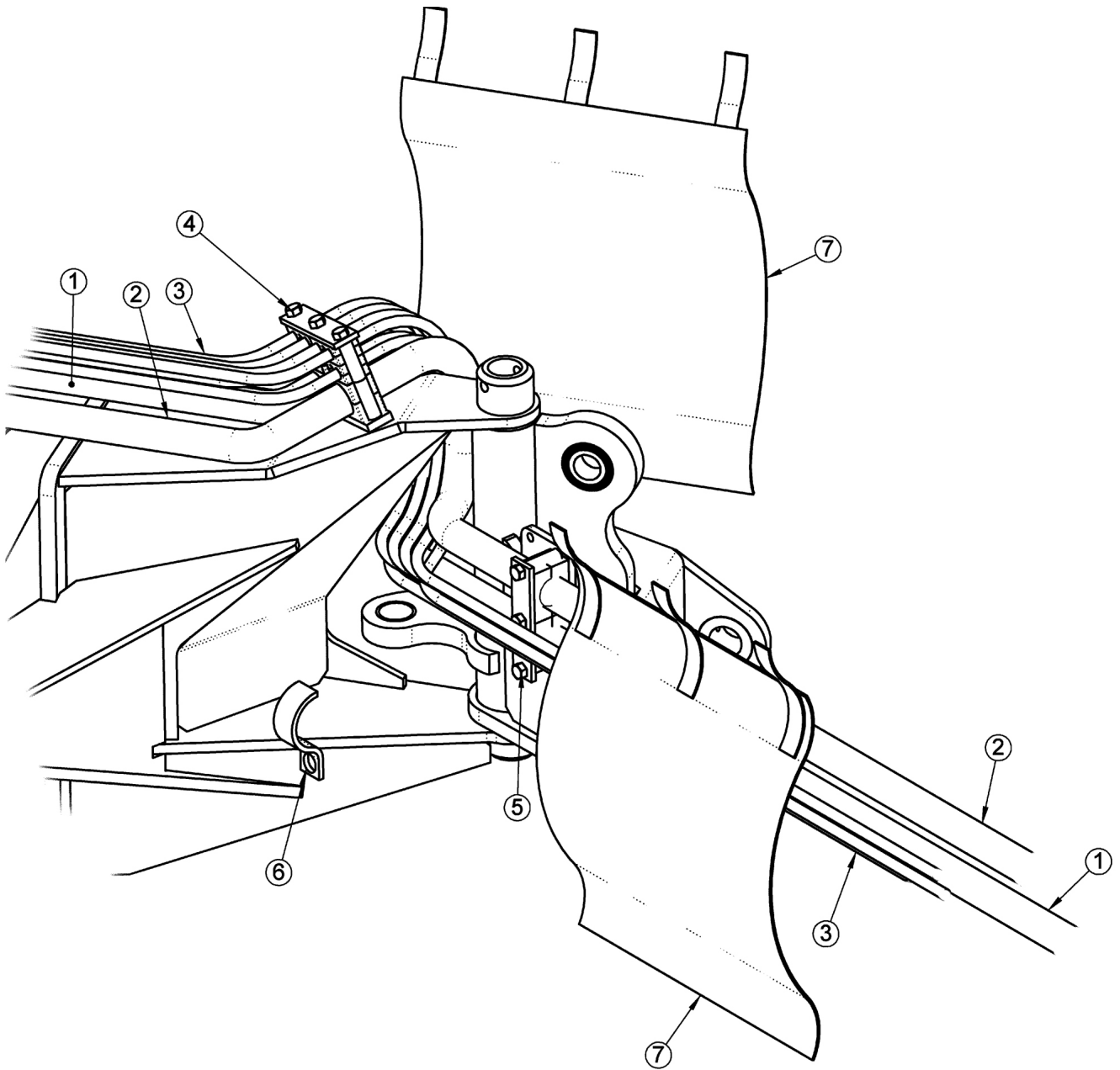


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

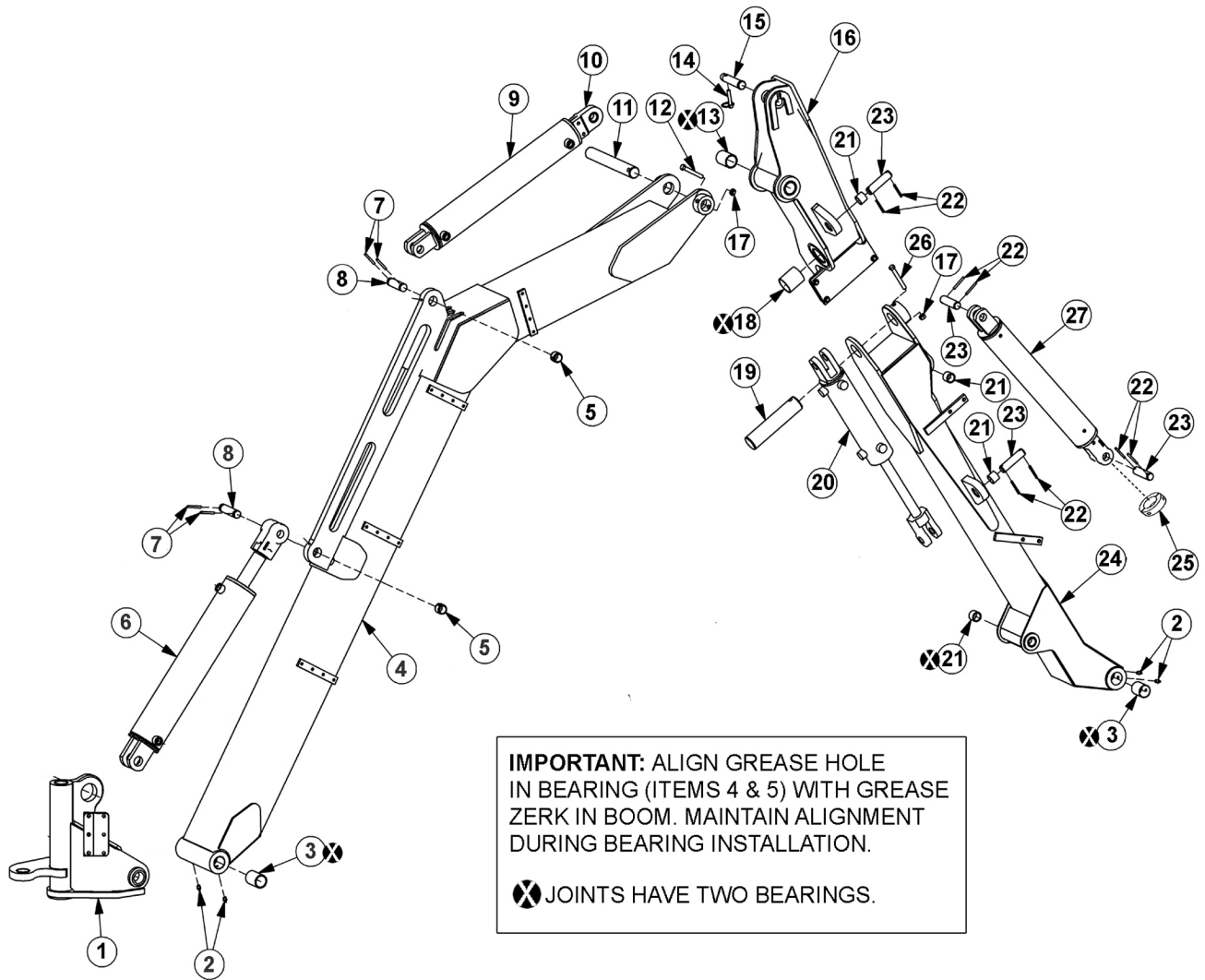
BENGAL BRUTE HOSE ROUTING



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

COMMON LEGAL REAR STOW T4

BENGAL BRUTE BOOM ASSY T4



BENGAL BRUTE BOOM ASSY T4

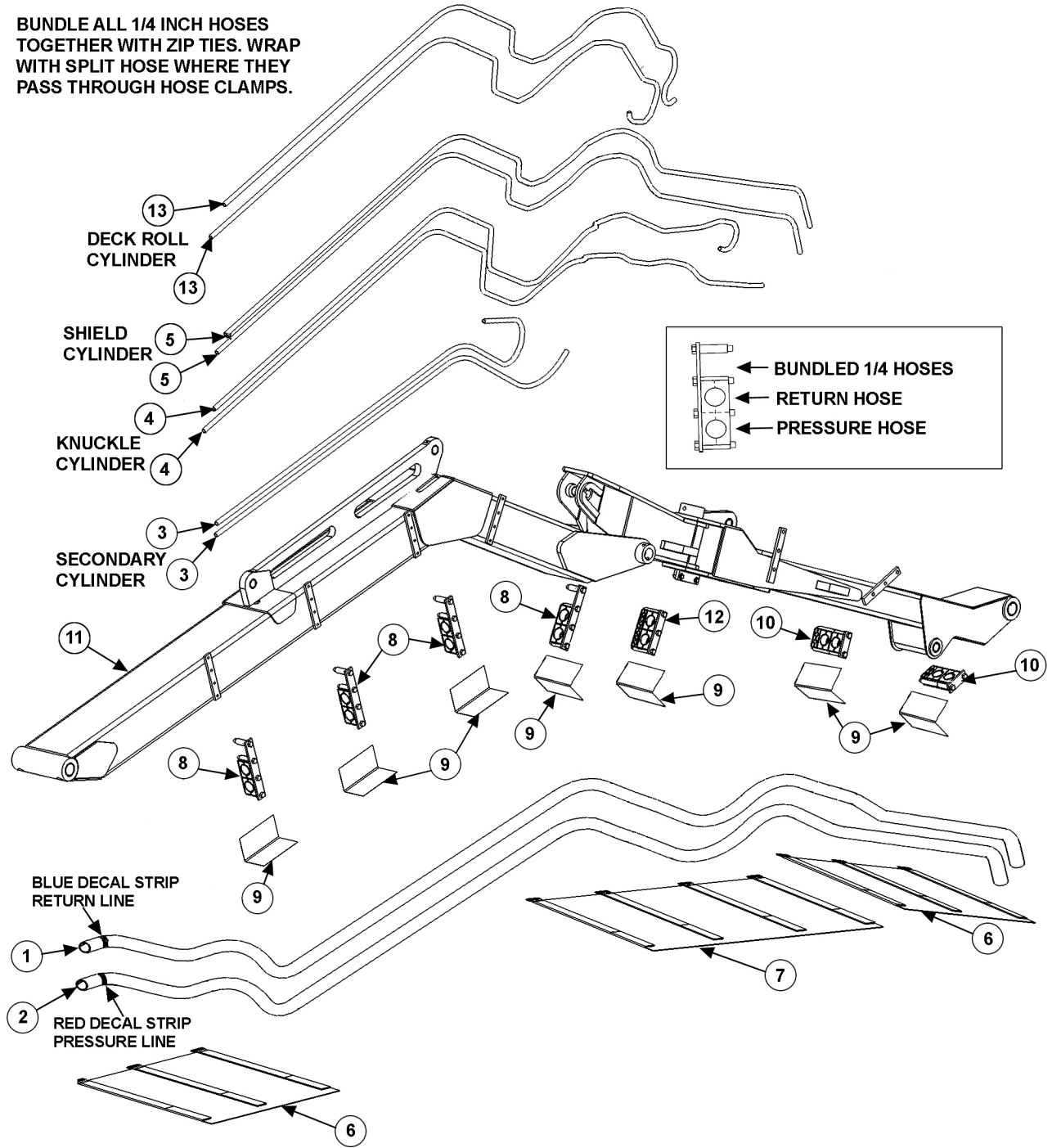
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ITEM	PART NO.	QTY.	DESCRIPTION
1	06700016	-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	6T3711	4	GREASE ZERK, 1/8" NPT
3	32321	4	BUSHING, 1-1/2ID X 2
4	06700189	1	MAIN BOOM ARM ASSY
5	TB3010	2	BUSHING, 1ID
6	06501020	1	CYLINDER, 5 X 20
7	6T3014	2	ROLLPIN, 1/4 X 2
8	TB1045B	2	PIN, 1-1/4 X 3-3/8
9	06501022	1	CYLINDER, 4 X 20
10	30172	1	CLEVIS W/SPHERICAL BEARING
11	06420015	1	PIN, 1-1/2 X 11-3/4
12	21688	2	CAPSCREW, 7/16 X 3-1/4, NC
13	06520411	2	BUSHING, 1-1/2ID X 2-1/2
14	TF1143	1	LYNCH PIN, 7/16 X 2
15	TB1036	1	PIN, 1 X 4-11/16
16	06700036	1	KNUCKLE BOOM ARM ASSY
17	21677	3	NYLOCK NUT, 7/16 NC
18	06520077	2	BUSHING, 2ID X 2-1/2
19	06420017	1	PIN, 1-3/4 X 8-9/16
20	06501021	1	CYLINDER, 3 X 10
21	06520076	4	BUSHING, 2ID X 1
22	TB1023	10	ROLLPIN, 7/32
23	06420014	4	PIN, 1 X 3-5/8
24	06700187	1	SECONDARY BOOM ARM ASSY
25	35312	1	SET COLLAR, 1.38ID (FOR ROTARY MOWERS)
---	35312	2	SET COLLAR, 1.38ID (FOR FLAIL MOWERS)
26	21689	1	CAPSCREW, 7/16 X 3-1/2
27	06501023	1	CYLINDER, 3 X 18

COMMON LEGAL REAR STOW T4

BENGAL BRUTE BOOM HOSES

BUNDLE ALL 1/4 INCH HOSES TOGETHER WITH ZIP TIES. WRAP WITH SPLIT HOSE WHERE THEY PASS THROUGH HOSE CLAMPS.

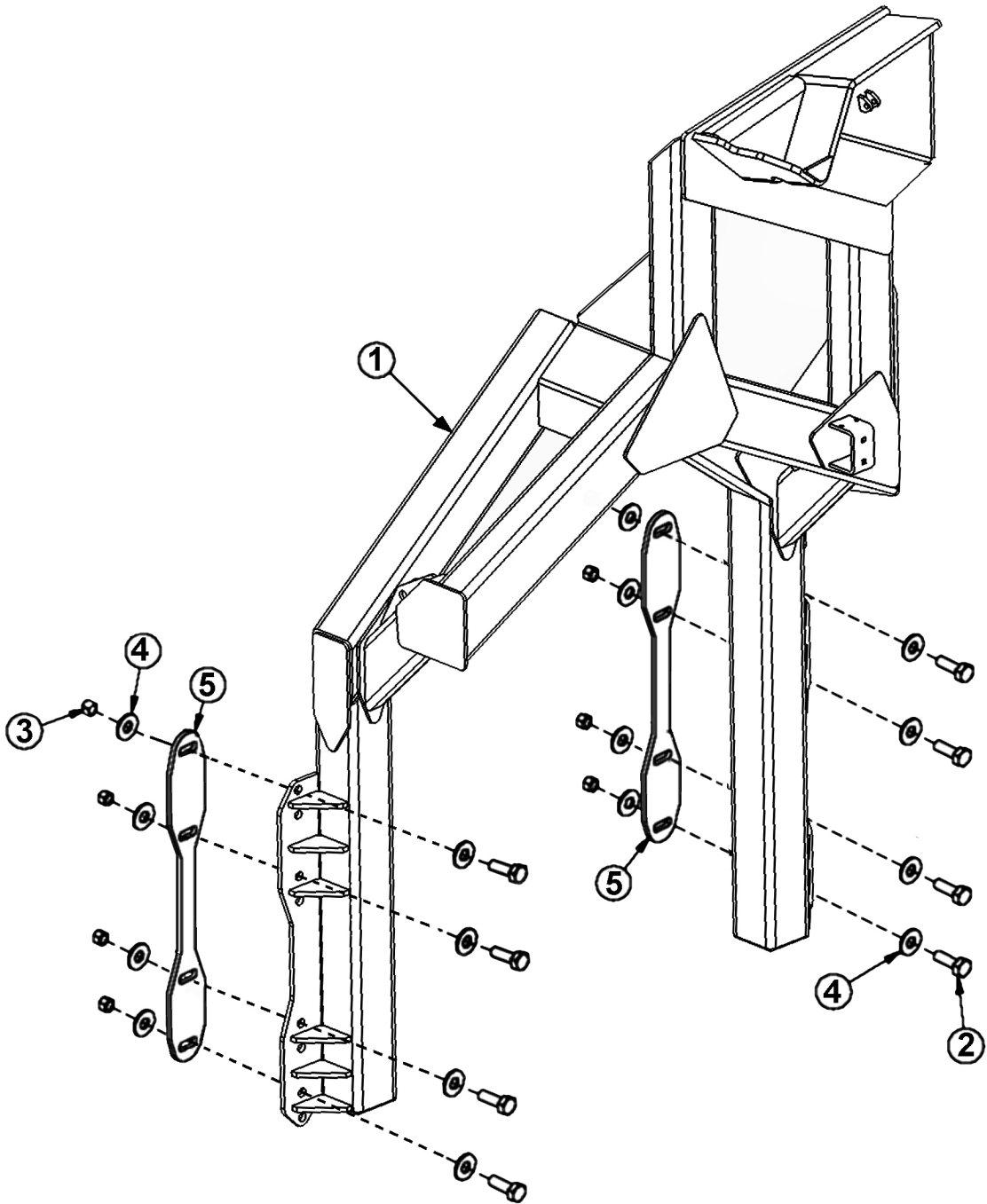


BENGAL BRUTE BOOM HOSES

Continued...

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

BOOMREST



COMMON LEGAL REAR STOW T4

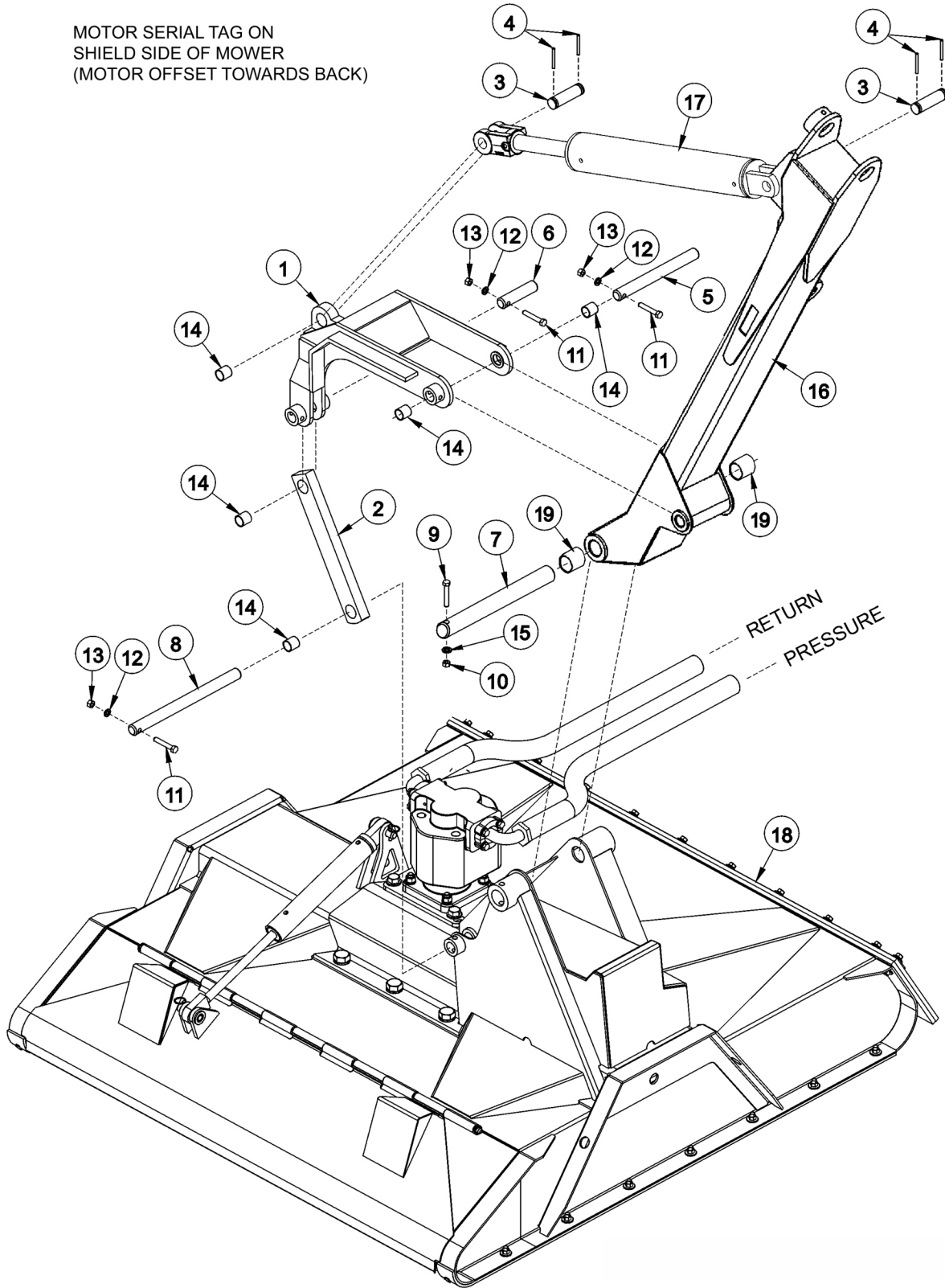
BOOMREST

Continued...

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

LEGAL REAR STOW RTRY PIVOT ASSY

MOTOR SERIAL TAG ON
SHIELD SIDE OF MOWER
(MOTOR OFFSET TOWARDS BACK)



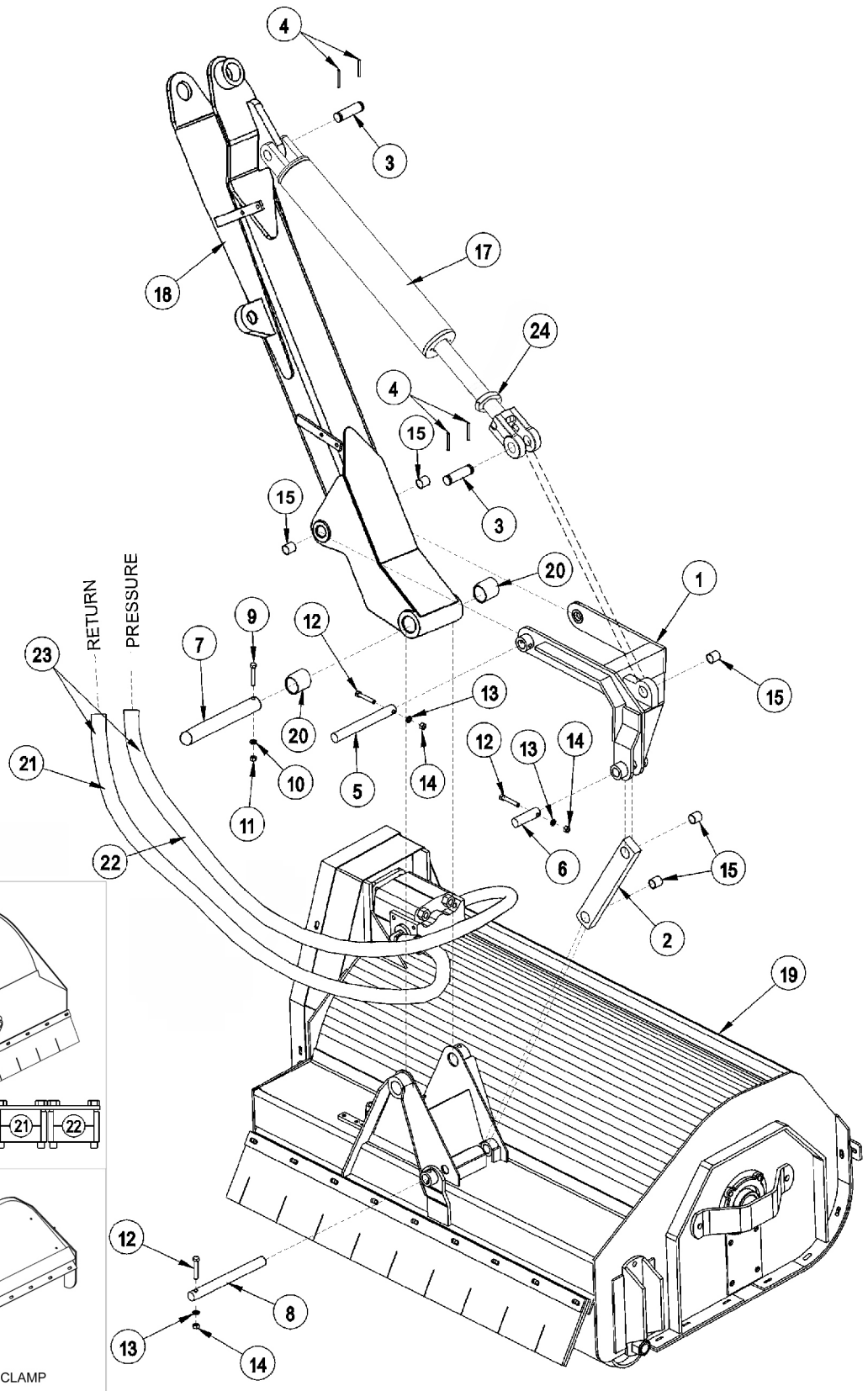
LEGAL REAR STOW RTRY PIVOT ASSY

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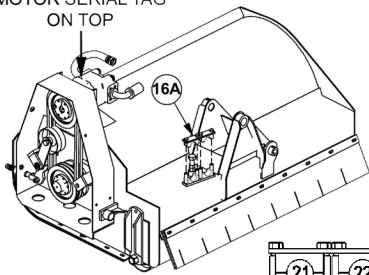
ITEM	PART NO.	QTY.	DESCRIPTION
1	06700016	1	PIVOT ASSEMBLY
2	06700015	1	PIVOT ARM ASSEMBLY
3	06420014	2	PIN, CLEVIS
4	TB1023	4	ROLL PIN
5	06420019	1	PIN
6	06420020	1	PIN
7	06420016	1	PIN
8	06420021	1	PIN
9	21688	1	CAPSCREW 7/16" X 2-3/4", NC
10	21675	1	HEX NUT, 7/16", NC
11	21635	3	CAPSCREW 3/8" X 2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

COMMON LEGAL REAR STOW T4

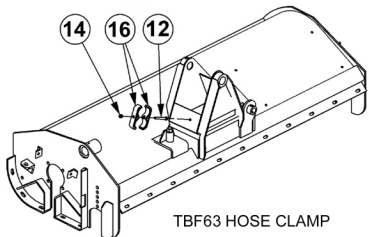
LEGAL REAR STOW FLAIL PIVOT ASSY



MOTOR SERIAL TAG
ON TOP



TBF50 HOSE CLAMP



TBF63 HOSE CLAMP

LEGAL REAR STOW FLAIL PIVOT ASSY

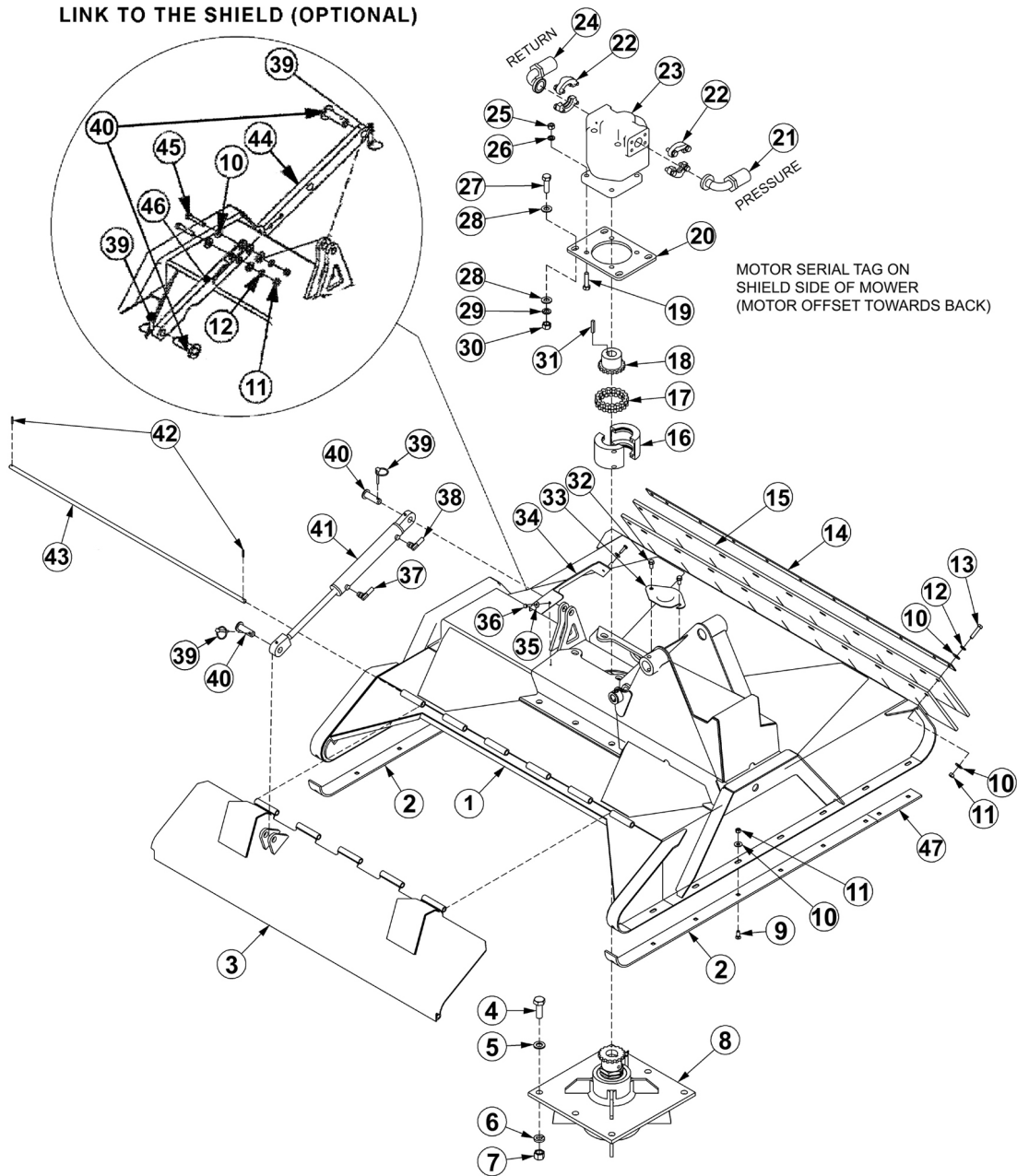
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ITEM	PART NO.	QTY.	DESCRIPTION
1	06700029	1	PIVOT ASSEMBLY
2	06700201	1	PIVOT ARM ASSEMBLY
3	06420014	2	PIN CLEVIS
4	TB1023	4	ROLL PIN
5	06420019	1	PIN
6	06420020	1	PIN
7	06420018	1	PIN
8	06420021	1	PIN
9	21688	1	CAPSCREW 7/16" X 3 1/4"
10	21989	1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

COMMON LEGAL REAR STOW T4

60IN ROTARY MOWER ASSEMBLY

LINK TO THE SHIELD (OPTIONAL)



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

COMMON LEGAL REAR STOW T4

60IN ROTARY MOWER ASSEMBLY

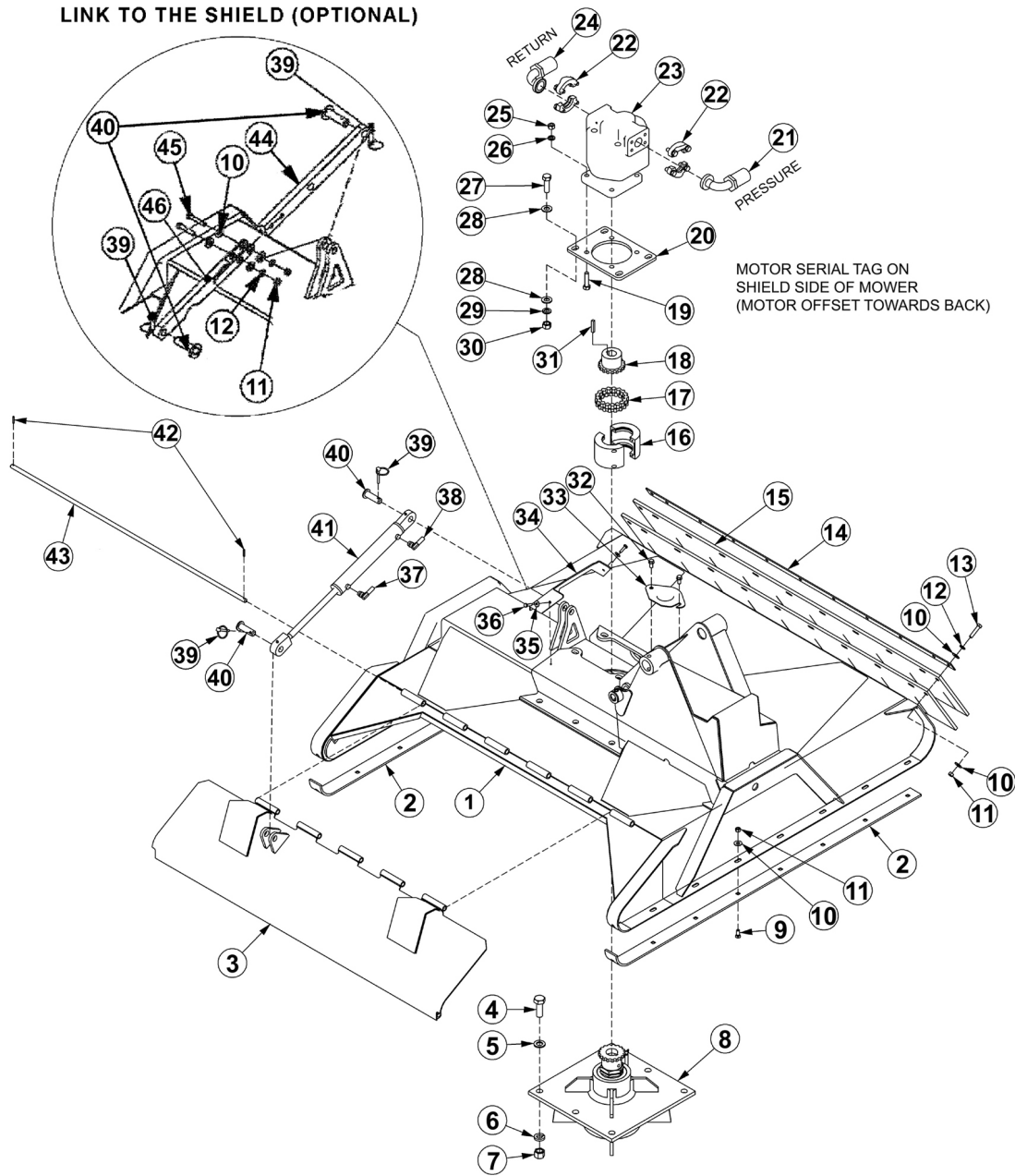
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ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	6T0823	1	FLAP RETAINER,60" RTRY
15	06520238	2	FLAP,60" RTRY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

COMMON LEGAL REAR STOW T4

50IN ROTARY MOWER ASSEMBLY

LINK TO THE SHIELD (OPTIONAL)



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

COMMON LEGAL REAR STOW T4

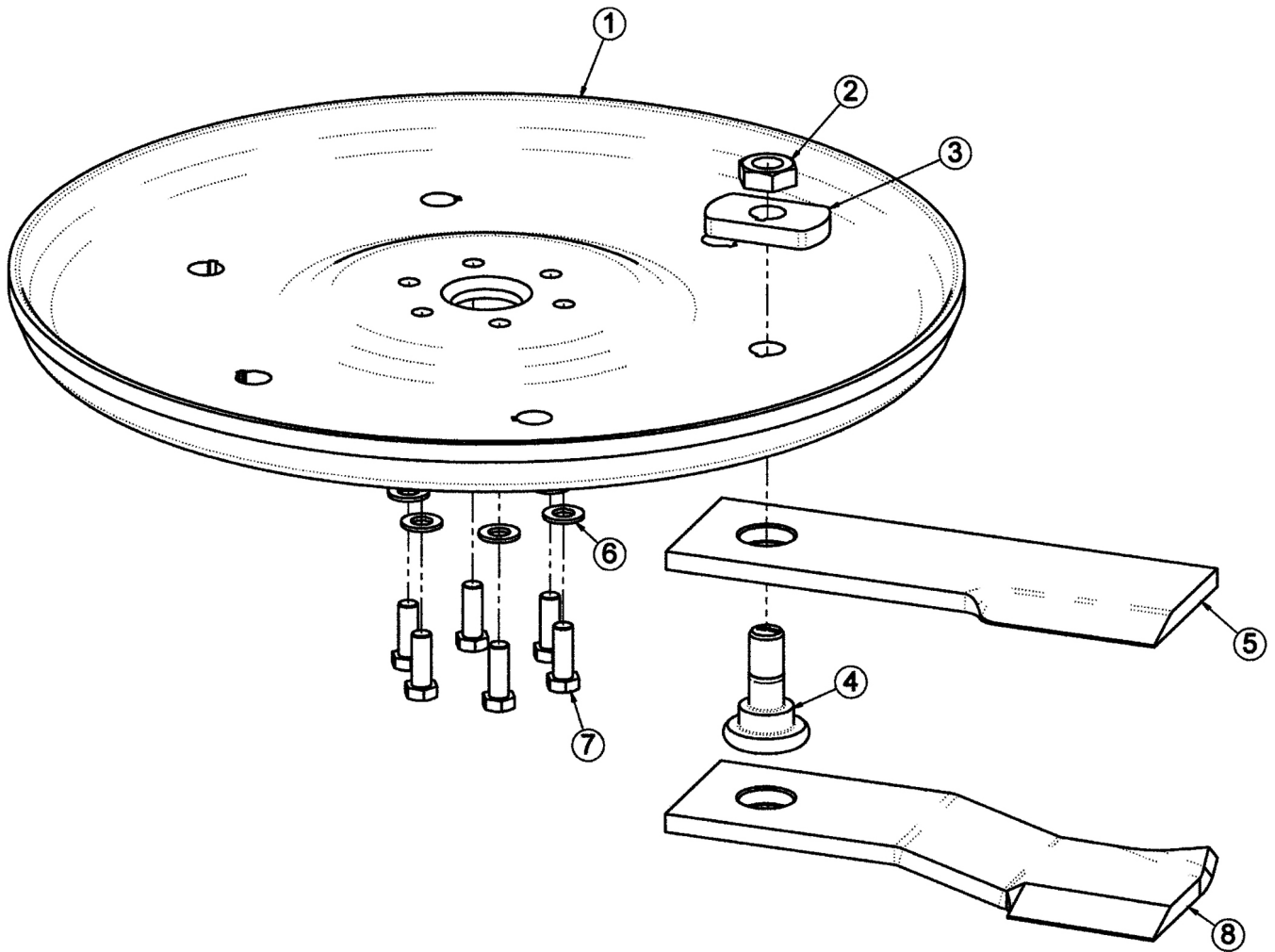
50IN ROTARY MOWER ASSEMBLY

Continued...

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

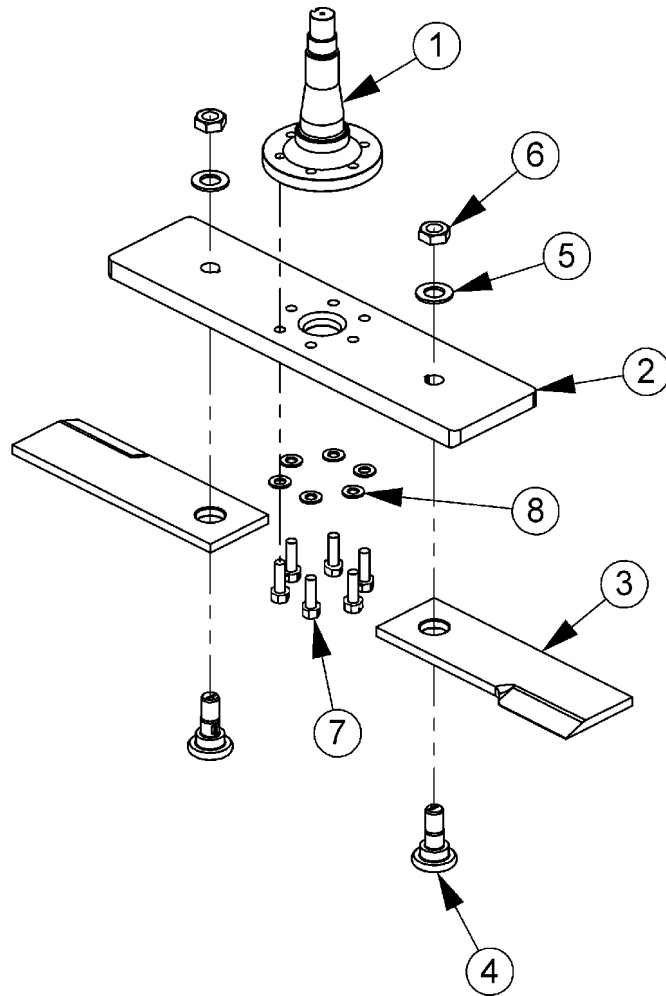
COMMON LEGAL REAR STOW T4

50IN ROTARY KNIVES AND DISH



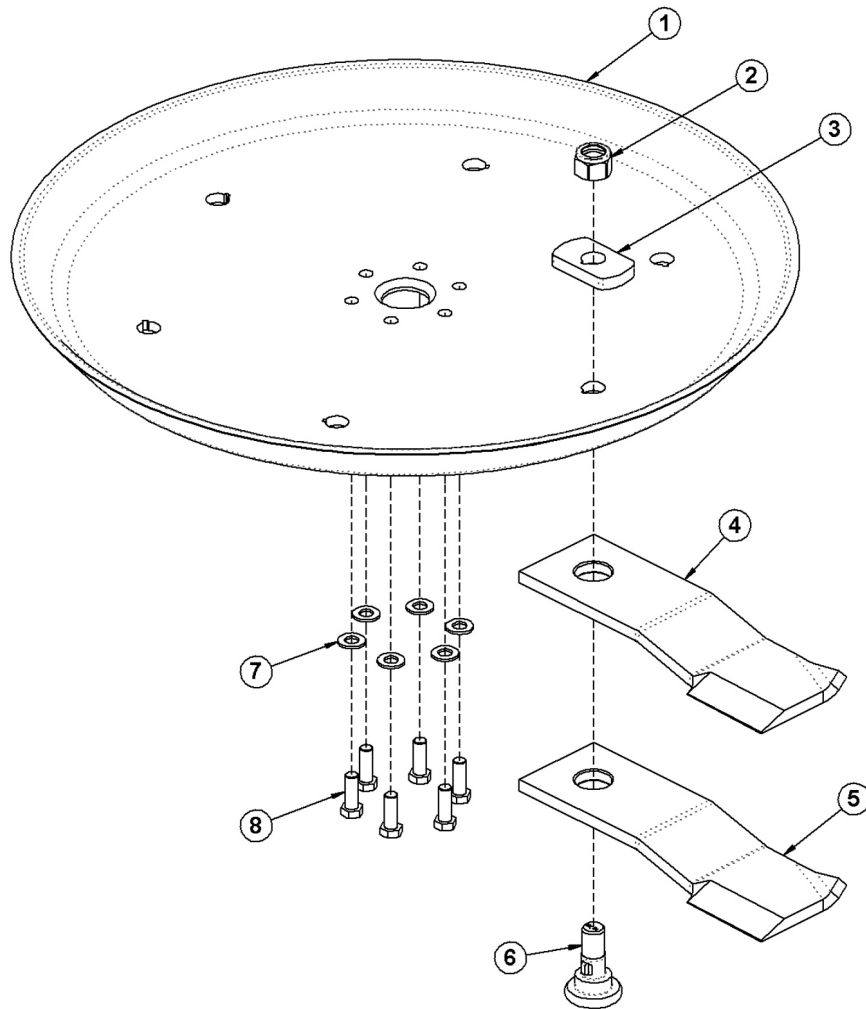
ITEM	PART NO.	QTY.	DESCRIPTION
-----	06700089	-	KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7)
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
-----	06770012	-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

50IN ROTARY BLADE BAR AND KNIVES



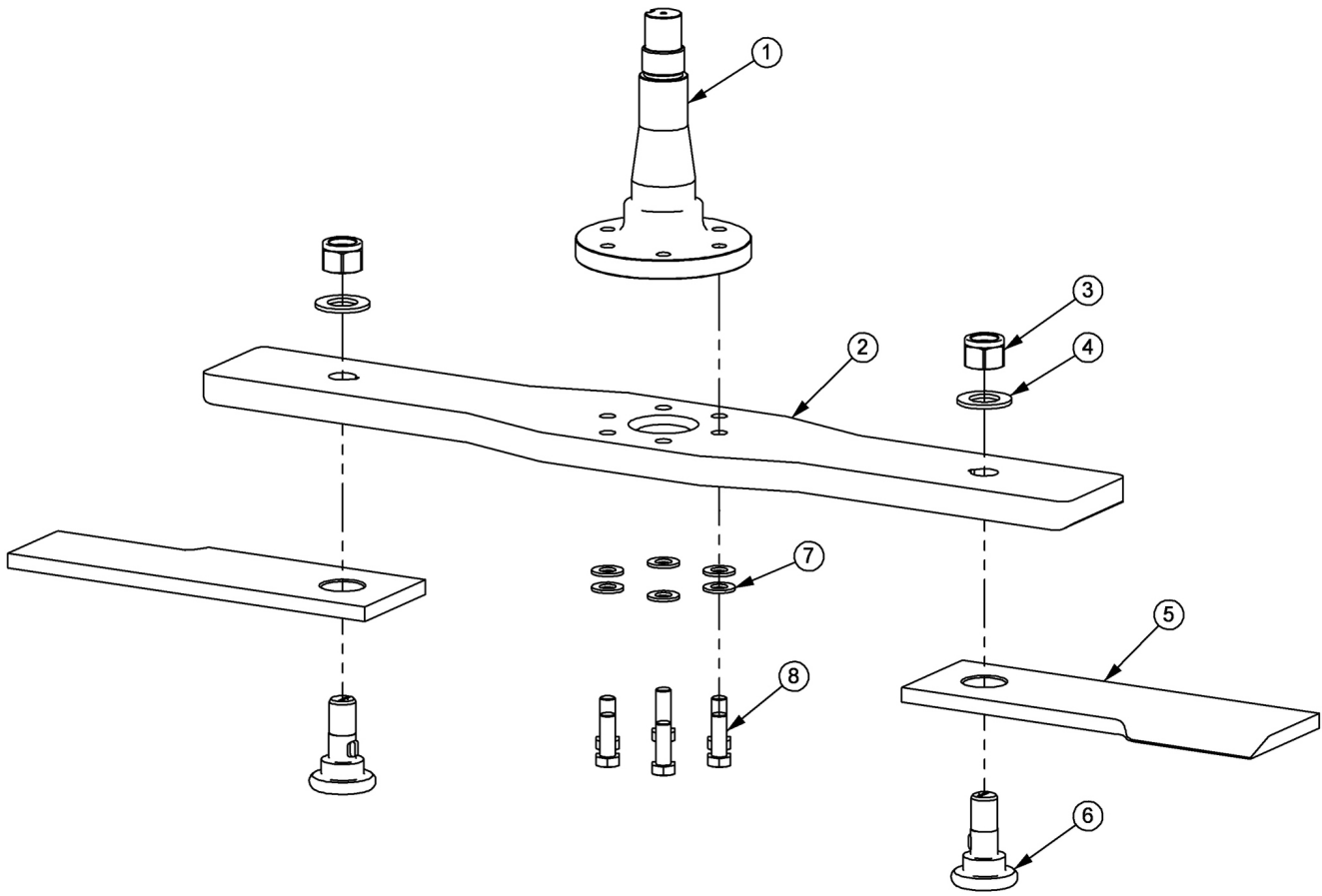
ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE,5/8HOLES,HD,WO/TABS
2	06400388	1	BAR,BLADE,TRB
3	06521001	2	KNIFE,TRB50,5/8
4	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
5	06533002	2	FLATWASHER,1 1/8,GR 8
6	6T1023R	2	KNIFE MTG NUT,1 1/8,NF,GR8
7	6T2259	6	CAPSCREW,5/8X1-3/4,NF,GR8
8	33764	6	FLATWASHER,5/8,GR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

60IN ROTARY KNIVES AND DISH



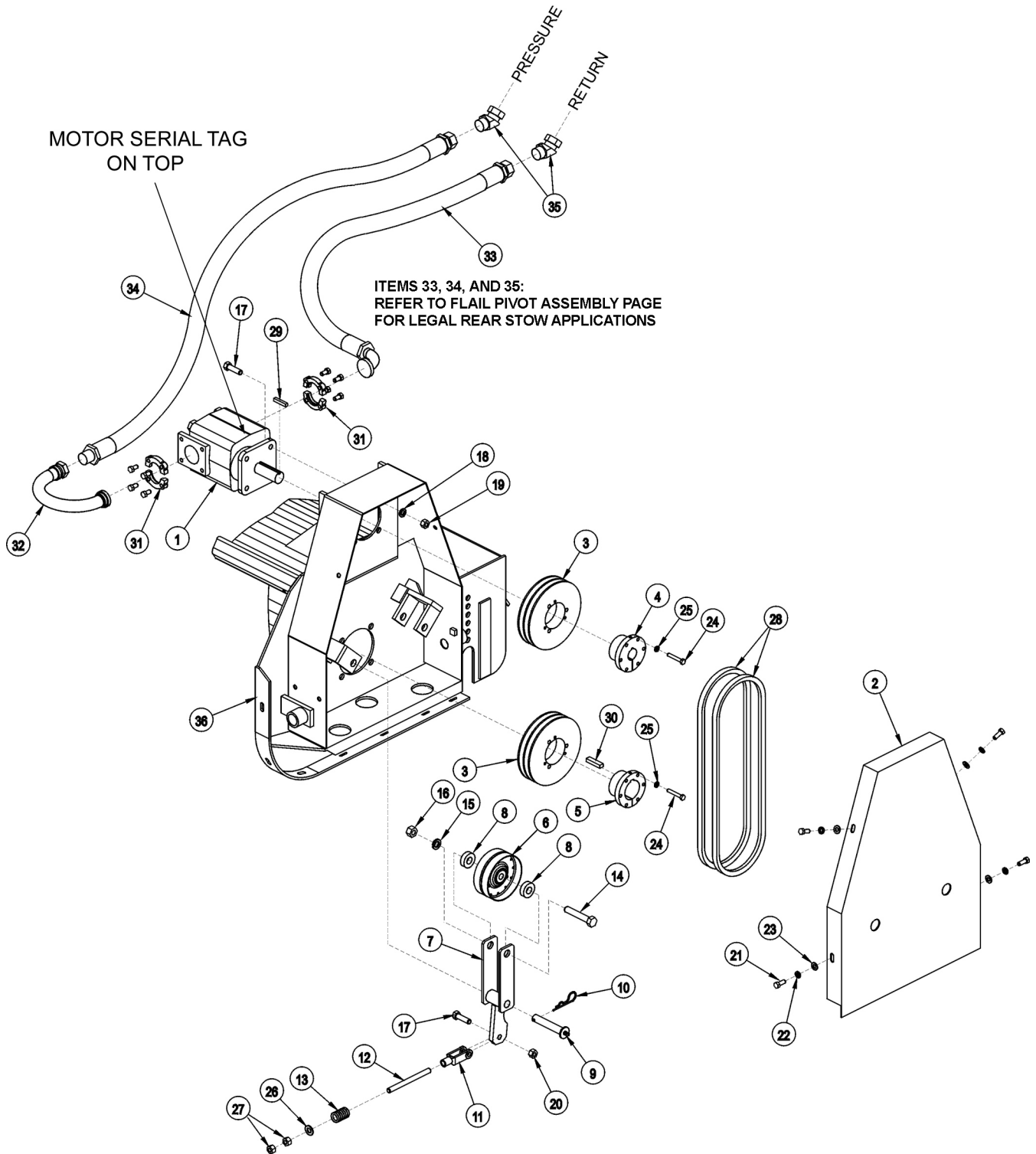
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISH,60"
2	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	34878	2	SPACER
4	34684	2	STANDARD GRASS KNIFE
5	34685	2	HIGH SUCTION GRASS KNIFE (OPTIONAL)
6	34497	2	KNIFE MOUNTING BOLT
7	25270	6	FLATWASHER,5/8",GR8,USS
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
---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

60IN ROTARY BLADE BAR AND KNIVES



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

50IN FLAIL DRIVE ASSEMBLY



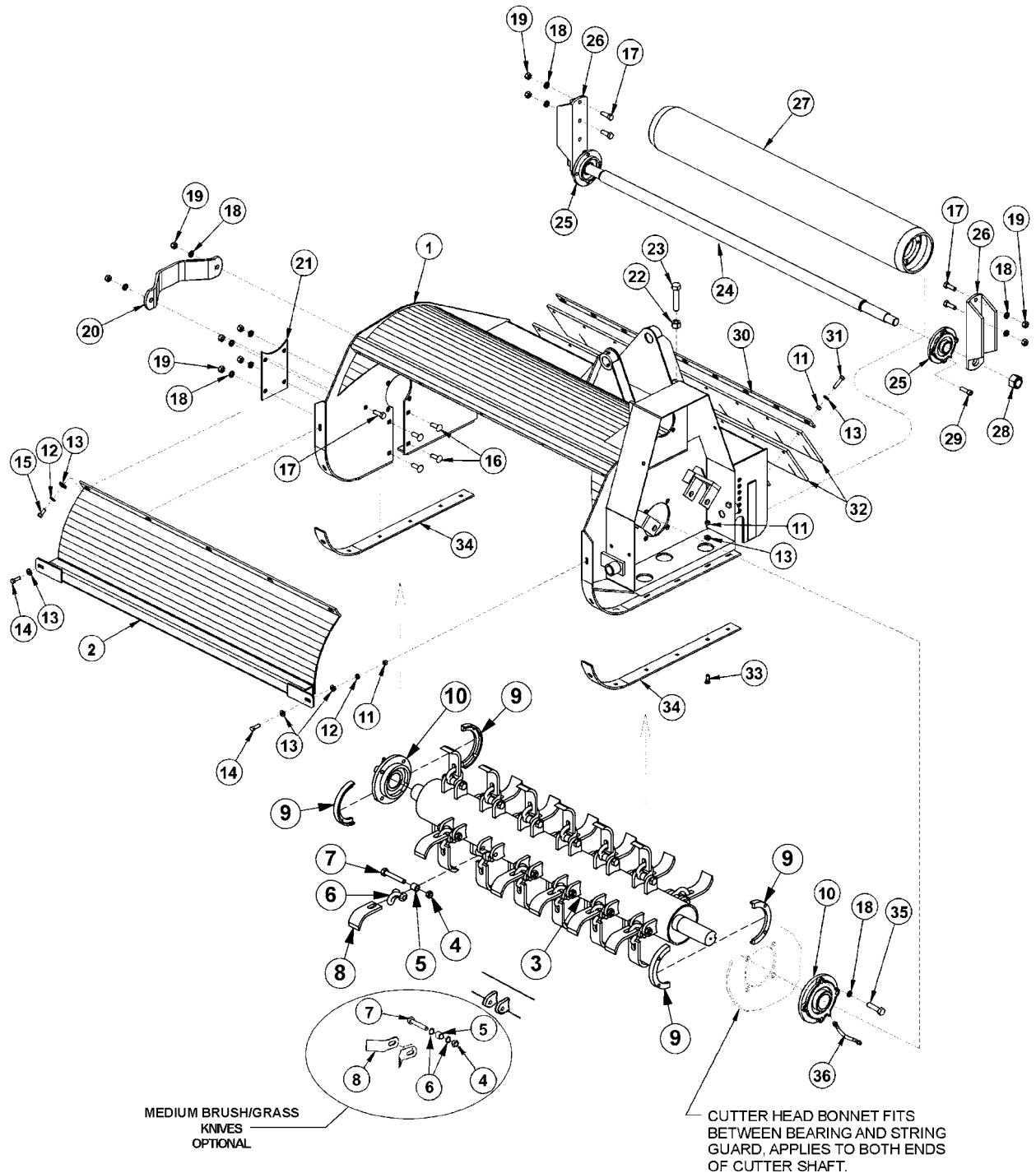
50IN FLAIL DRIVE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4" GEAR)
2	TF3006	1	BELT GUARD
3	TF3043	2	SHEAVE
4	TF3013	1	BUSHING
5	TF3011	1	BUSHING
6	TF3034	1	IDLER PULLEY
7	TF3205	1	IDLER ARM
8	TF3206	2	IDLER PULLEY SPACER
9	TF3605	1	IDLER ARM PIN WITH ZERK
10	6T3004	1	R - CLIP
11	PT3611A	1	CLEVIS
12	32481	1	THREADED ROD
13	TF3620	1	COMPRESSION SPRING
14	21789	1	CAPSCREW 5/8" X 3 1/2"
15	21992	1	LOCKWASHER 5/8"
16	21775	1	HEX NUT 5/8"
17	21732	5	CAPSCREW 1/2" X 1 3/4"
18	21990	4	LOCKWASHER 1/2"
19	21725	4	HEX NUT 1/2"
20	6T2418	1	LOCK NUT 1/2"
21	21630	4	CAPSCREW 3/8" X 1"
22	21988	4	LOCKWASHER 3/8"
23	22016	4	FLATWASHER 3/8"
24	21584	6	CAPSCREW 5/16" X 2"
25	21987	6	LOCKWASHER 5/16"
26	27938	1	FLATWASHER 1/2"
27	21700	2	HEX NUT 1/2" NF
28	TF3021	2	BELT
29	TF1125	1	SQUARE KEY
30	TF1025	1	SQUARE KEY MOTOR
31	TF4852	2	FLANGE KIT
32	34227	1	PREFORMED TUBE
33	31218	1	HOSE - RETURN
34	34331	1	HOSE - PRESSURE
35	24724	2	SWIVEL FITTING
36	-----	-	CUTTER HEAD *REFER TO CUTTER HEAD ASSY

COMMON LEGAL REAR STOW T4

50IN FLAIL MOWER ASSEMBLY



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

COMMON LEGAL REAR STOW T4

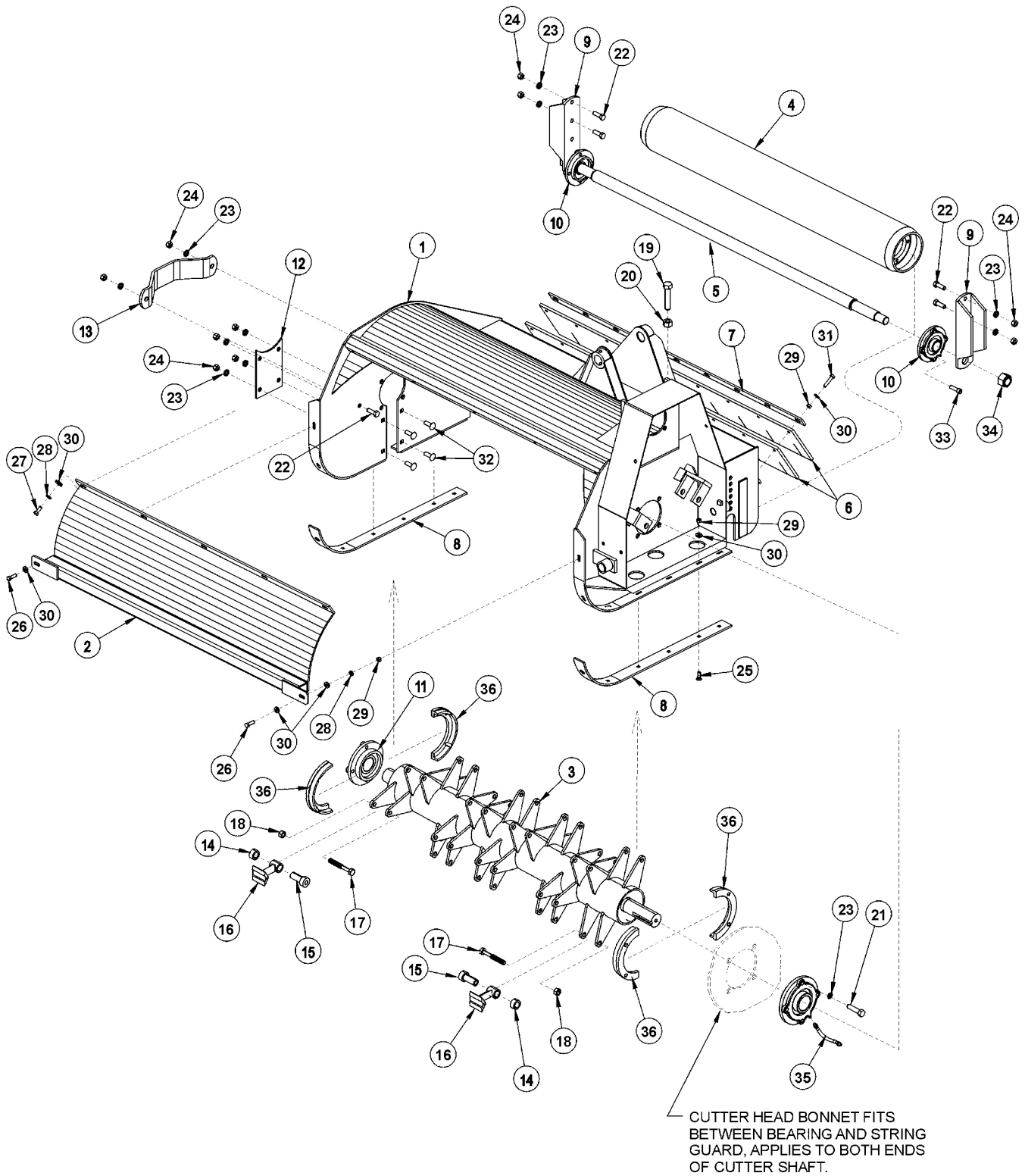
50IN FLAIL MOWER ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
3	34783	1	TBF50 (LIGHT BRUSH/GRASS KNIFE ASSY)
----	06700115	1	TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY)
4	6T2419	24	HEX NUT,9/16",NC,STOVER
5	41725.01HT	24	BUSHING,1"OD X 5/8"ID
6	34782	24	CLEVIS (LIGHT BRUSH/GRASS KNIVES)
----	06430122	48	SPACER (MEDIUM BRUSH/GRASS KNIVES)
7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
8	34780	24	KNIFE (LIGHT BRUSH/GRASS CUTTING)
----	06521007	48	KNIFE (MEDIUM BRUSH/GRASS CUTTING)
9	31204	2	STRING GUARD SET (2 PIECES PER SET)
10	TF1018	2	FLANGE BEARING,2-3/16"
11	21625	23	HEX NUT,3/8",NC
12	21988	7	LOCKWASHER,3/8"
13	22016	30	FLATWASHER,3/8"
14	21631	2	CAPSCREW,3/8" X 1-1/4",NC
15	21630	5	CAPSCREW,3/8" X 1",NC
16	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
17	21731	6	CAPSCREW,1/2" X 1-1/2",NC
18	21990	18	LOCKWASHER,1/2"
19	21725	10	HEX NUT,1/2",NC
20	TF1040	1	CUTTER SHAFT GUARD
21	TF3007A	1	COVER PLATE
22	21825	1	HEX NUT,5/8",NC
23	21838	1	CAPSCREW,3/4" X 3-1/2",NC
24	TF3406	1	GROUND ROLLER TIE ROD
25	TF1022	2	FLANGE BEARING,1-3/8"
26	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
27	TF3405	1	GROUND ROLLER
28	6T1023R	2	NYLOCK NUT,1-1/8",NF
29	6T2330	8	CAPSCREW,7/16" X 1-1/2",SOCKET HEAD
30	TB1008	1	FLAP RETAINING BAR
31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
32	TB1006A	2	DEFLECTOR FLAP
33	6T2270	12	PLOWBOLT,3/8" X 1",NC
34	TF3001	2	SKID SHOE
35	06530218	8	CAPSCREW,1/2" X 1-3/4",NC
36	TF1032	1	FLANGE BEARING GREASE HOSE

COMMON LEGAL REAR STOW T4

50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES



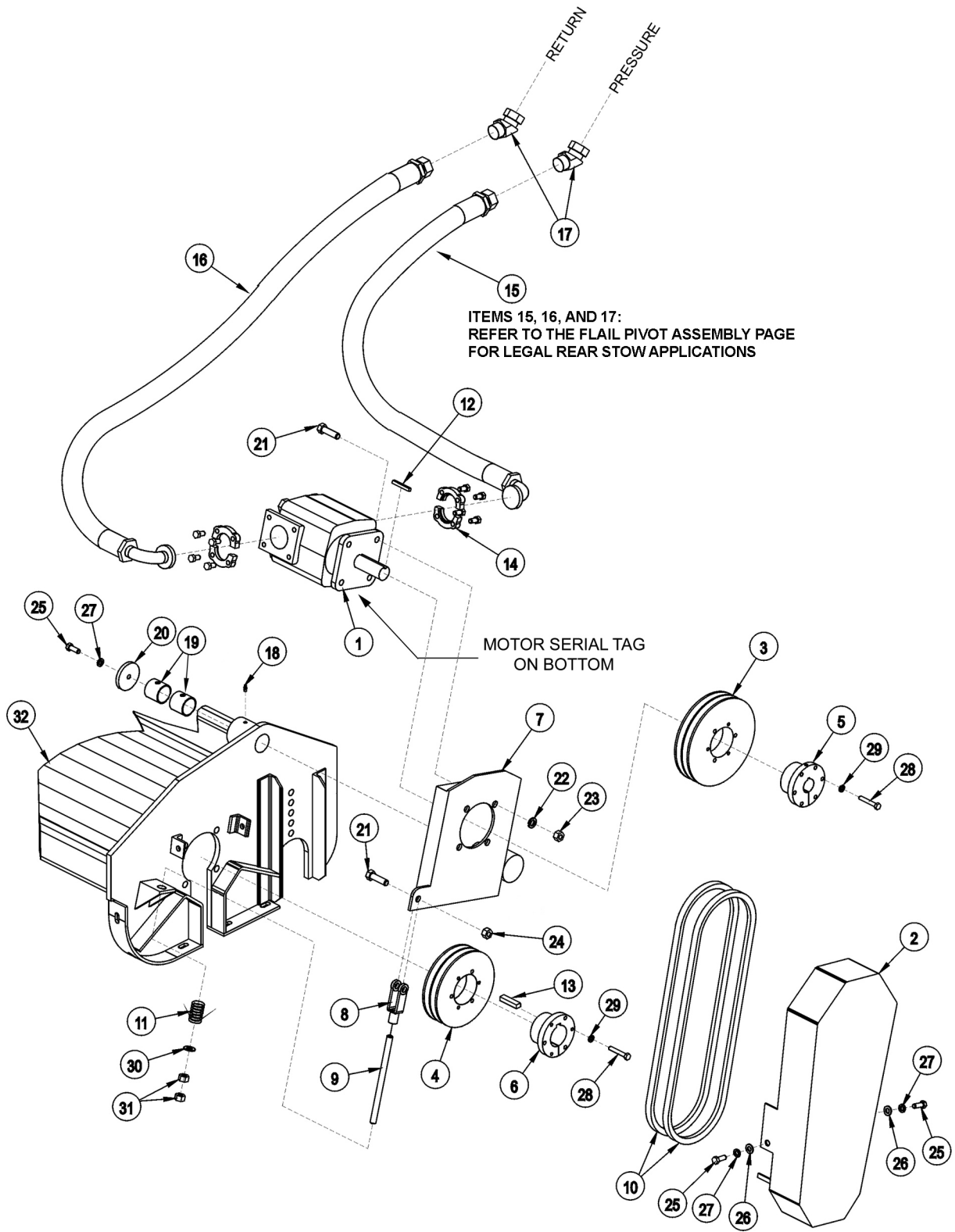
50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	34172	1	FLAIL,BOOM,50,CPLT ASSY
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	33717	1	TBF50,CUTTERSHAFT,PASS THRU KNIVES
4	TF3405	1	GROUND ROLLER
5	TF3406	1	GROUND ROLLER TIE ROD
6	TB1006A	2	DEFLECTOR FLAP
7	TB1008	1	FLAP RETAINING BAR
8	TF3001	2	SKID SHOE
9	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
10	TF1022	2	FLANGE BEARING,1-3/8"
11	TF1018	2	FLANGE BEARING,2-3/16"
12	TF3007A	1	COVER PLATE
13	TF1040	1	CUTTER SHAFT GUARD
14	33858	24	SPACER,COLLAR
15	33857	24	SHOULDER,BUSHING
16	46399.01	24	KNIFE,FLAIL,FORGED
17	33854	24	CAPSCREW,5/8" X 4-1/2",NC
18	32674	24	HEX NUT,5/8",NC
19	21838	1	CAPSCREW,3/4" X 3-1/2",NC
20	21825	1	HEX NUT,5/8",NC
21	21732	8	CAPSCREW,1/2" X 1-3/4",NC
22	21731	6	CAPSCREW,1/2" X 1-1/2",NC
23	21990	18	LOCKWASHER,1/2"
24	21725	10	HEX NUT,1/2",NC
25	6T2270	12	PLOWBOLT,3/8" X 1",NC
26	21631	2	CAPSCREW,3/8" X 1-1/4",NC
27	21630	5	CAPSCREW,3/8" X 1",NC
28	21988	7	LOCKWASHER,3/8"
29	21625	23	HEX NUT,3/8",NC
30	22016	30	FLATWASHER,3/8"
31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
32	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
33	6T2330	8	CAPSCREW,7/16" X 1-1/2",NC,SCKT HD
34	6T1023R	2	NYLOCK NUT,1-1/8",NF
35	TF1032	1	FLANGE BEARING GREASE HOSE
36	31204	2	STRING GUARD SET (2 PIECES PER SET)

COMMON LEGAL REAR STOW T4

63IN FLAIL DRIVE ASSEMBLY



COMMON LEGAL REAR STOW T4

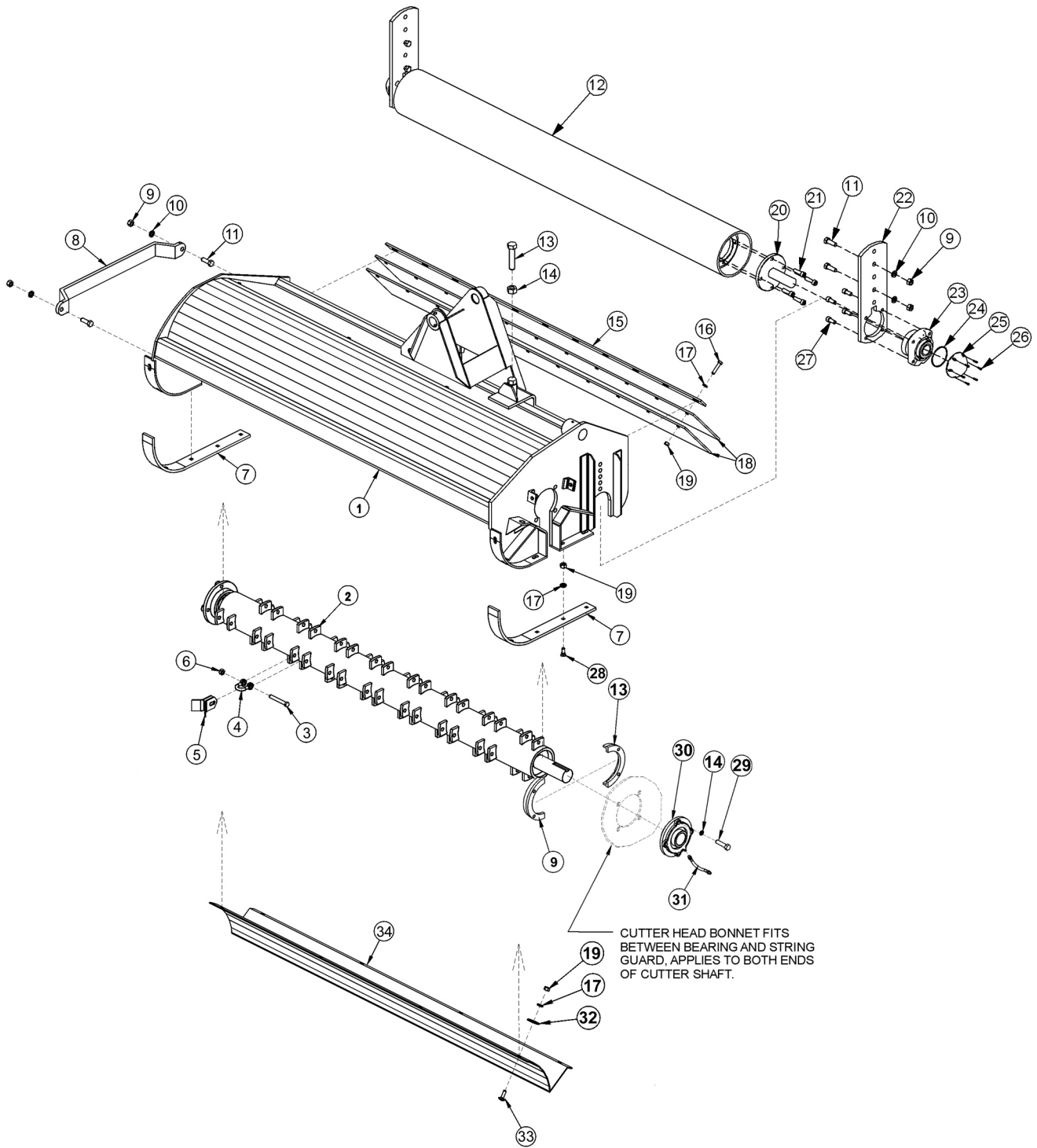
63IN FLAIL DRIVE ASSEMBLY

Continued...

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

COMMON LEGAL REAR STOW T4

63IN FLAIL MOWER ASSEMBLY



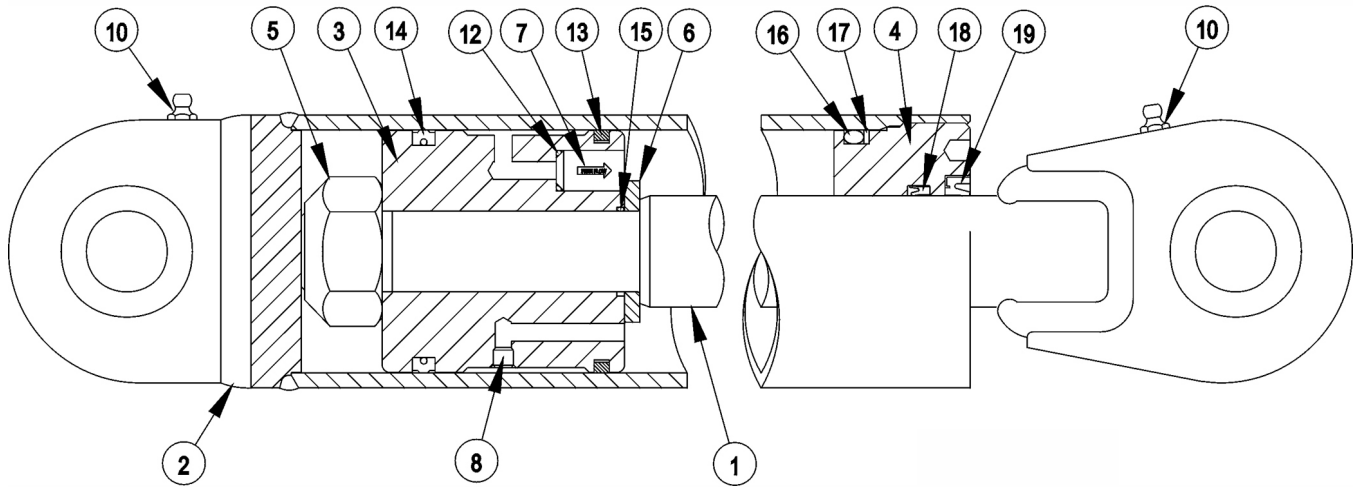
63IN FLAIL MOWER ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06200271	-	FLAIL,BOOM,63,GRASS,CPLT ASSY
1	28659H	1	CUTTER HEAD BONNET
2	28743	-	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
-----	28642C	1	CUTTER SHAFT,63,STD
3	34011	36	FLAIL KNIFE MOUNTING BOLT
4	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
5	33713	72	FLAIL KNIFE - STANDARD
6	21677	36	NYLOCK NUT
7	28086A	2	SKID SHOE
8	27975A	1	CUTTER SHAFT GUARD
9	21725	14	HEX NUT 1/2"
10	21990	14	LOCKWASHER 1/2"
11	21731	6	CAPSCREW 1/2" X 1 1/2"
12	28650A	1	GROUND ROLLER
13	33863	2	STRING GUARD,STD
14	06533006	8	FLATWASHER,1/2",SAE,L9
15	28700	1	FLAP RETAINING BAR
16	21633	11	CAPSCREW 3/8" X 1 3/4"
17	21988	28	LOCKWASHER 3/8"
18	28701	2	DEFLECTOR FLAP
19	21625	28	HEX NUT 3/8"
20	TF1045B	2	GROUND ROLLER STUB SHAFT
21	6T2330	8	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
22	28735	2	ADJUSTABLE ROLLER BRACKET
23	06520028	2	BEARING,FLANGE,1-3/8,GRNDRLLR
24	06520029	2	O-RING
25	06520027	2	CAP,BEARING,GROUNDROLLER
26	06530001	12	CAPSCREW,SKT HD,8-32 X 1/2,SS
27	6T2331	8	CAPSCREW 7/16" X 1" SOCKET HEAD
28	6T2270	10	PLOW BOLT 3/8" X 1 1/4"
29	06530217	8	CAPSCREW 1/2" X 2",L9
30	28683	2	FLANGE BEARING
31	TF1032	1	FLANGE BEARING GREASE HOSE
32	6T2615	7	FENDER WASHER 3/8"
33	6T2283	7	CARRIAGE BOLT 3/8" X 1"
34	28665A	1	BAFFLE (INSIDE UPPER REAR OF CUTTER HEAD)

COMMON LEGAL REAR STOW T4

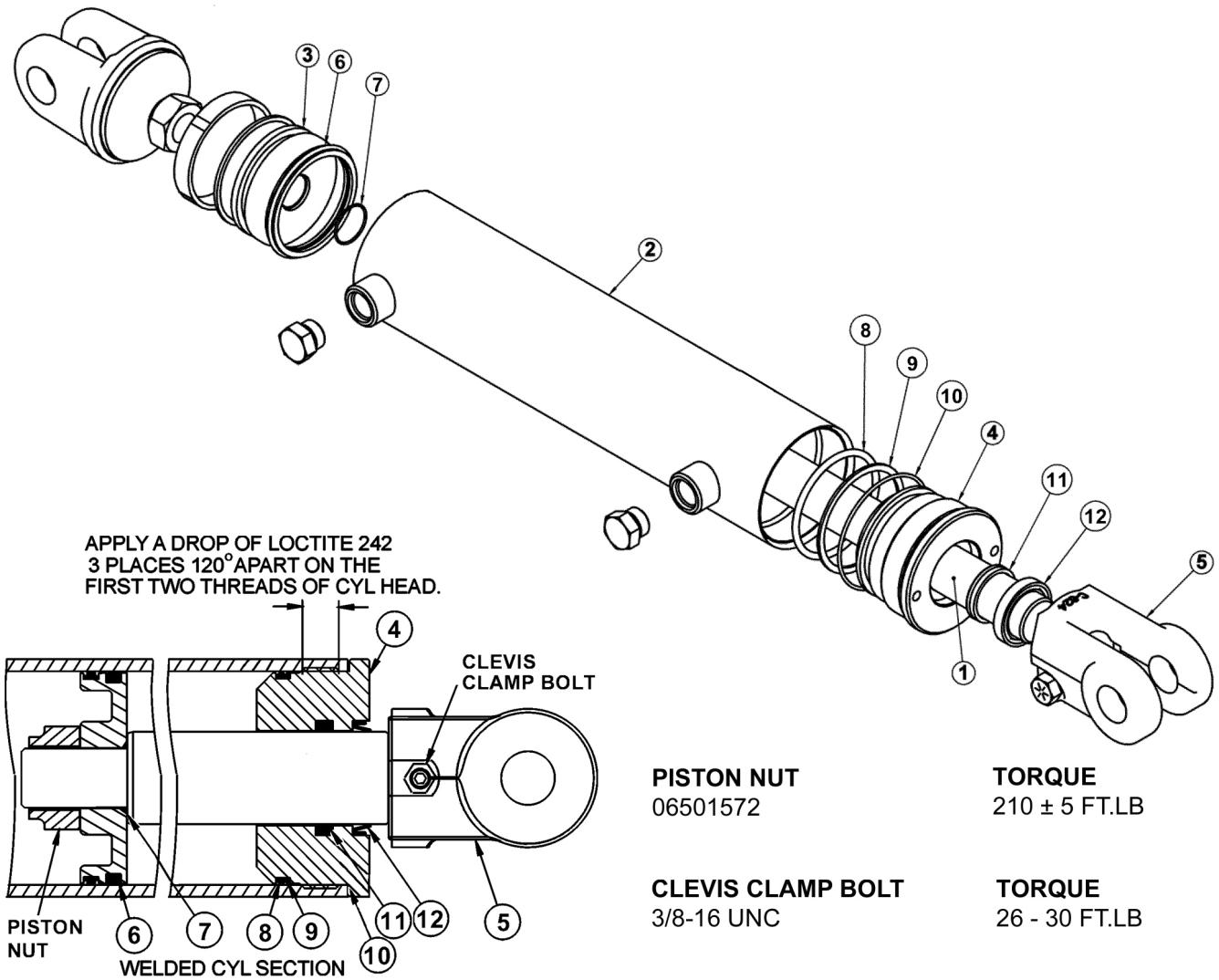
3 IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
---	06501029	-	CYLINDER,WELDED,3" X 13.87"
1	06501630	1	PISTON ROD ASSY
2	06501631	1	BUTT & TUBE ASSY
3	06501632	1	PISTON
4	34574	1	GLAND
5	34575	1	LOCK NUT,1"-14 UNS (TORQUE TO 315 FT.LB.)
6	34576	1	SPACER
7	34577	1	CHECK VALVE,KEPNER
8	06501633	1	ORIFICE
9	33761	1	SEAL KIT,PACKING (ITEMS 12 THRU 19)
10	-----	2	GREASE ZERK
12	-----	1	O - RING
13	-----	1	CAST IRON PISTON RING
14	-----	1	CROWN SEAL
15	-----	1	O - RING
16	-----	1	O - RING
17	-----	1	BACK - UP WASHER
18	-----	1	U - CUP
19	-----	1	WIPER
20	34334	-	SPHERICAL BEARING (NOT SHOWN)

3IN X 18IN WELDED CYLINDER BREAKDOWN



APPLY A DROP OF LOCTITE 242
3 PLACES 120° APART ON THE
FIRST TWO THREADS OF CYL HEAD.

PISTON NUT
06501572

TORQUE
210 ± 5 FT.LB

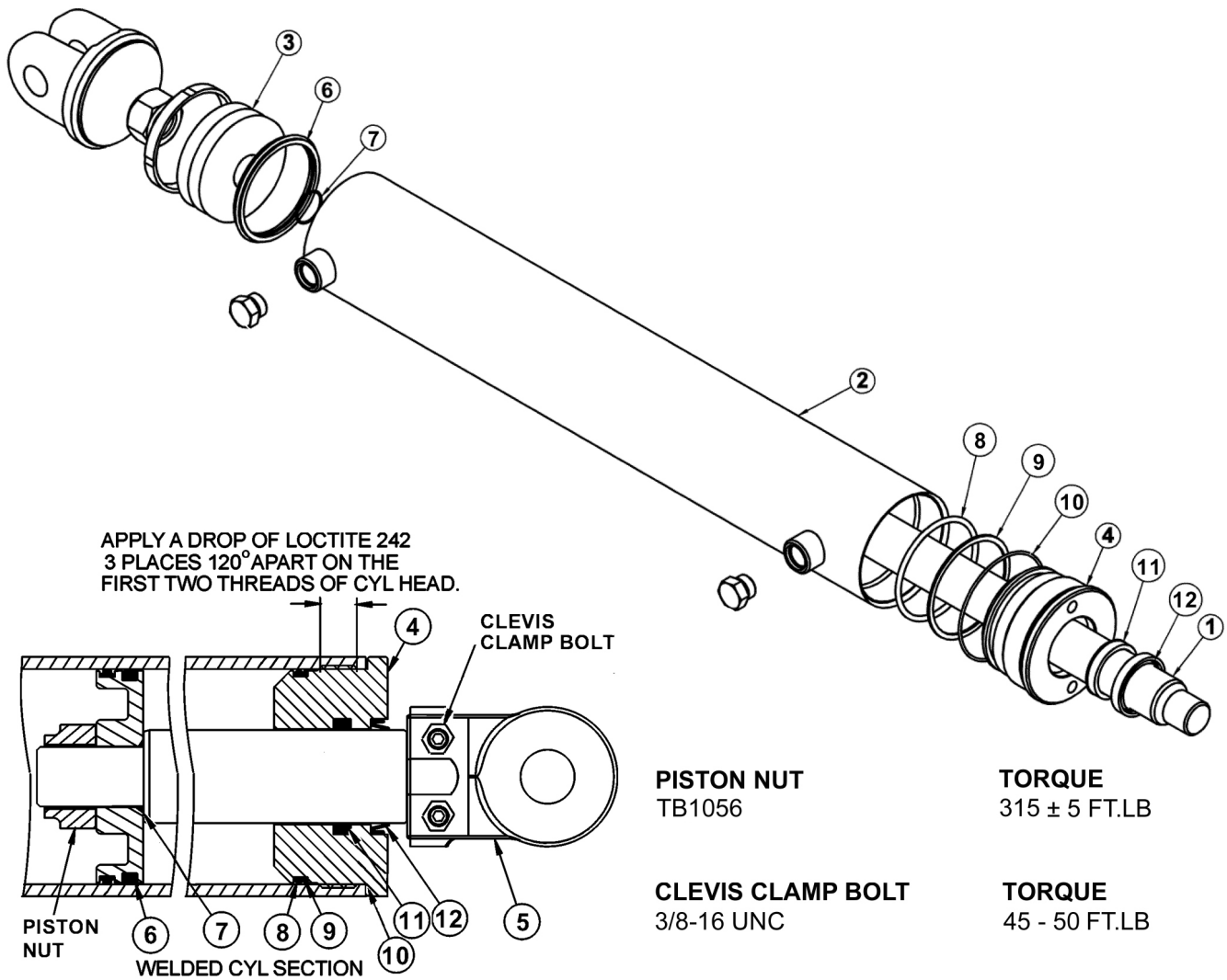
CLEVIS CLAMP BOLT
3/8-16 UNC

TORQUE
26 - 30 FT.LB

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

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

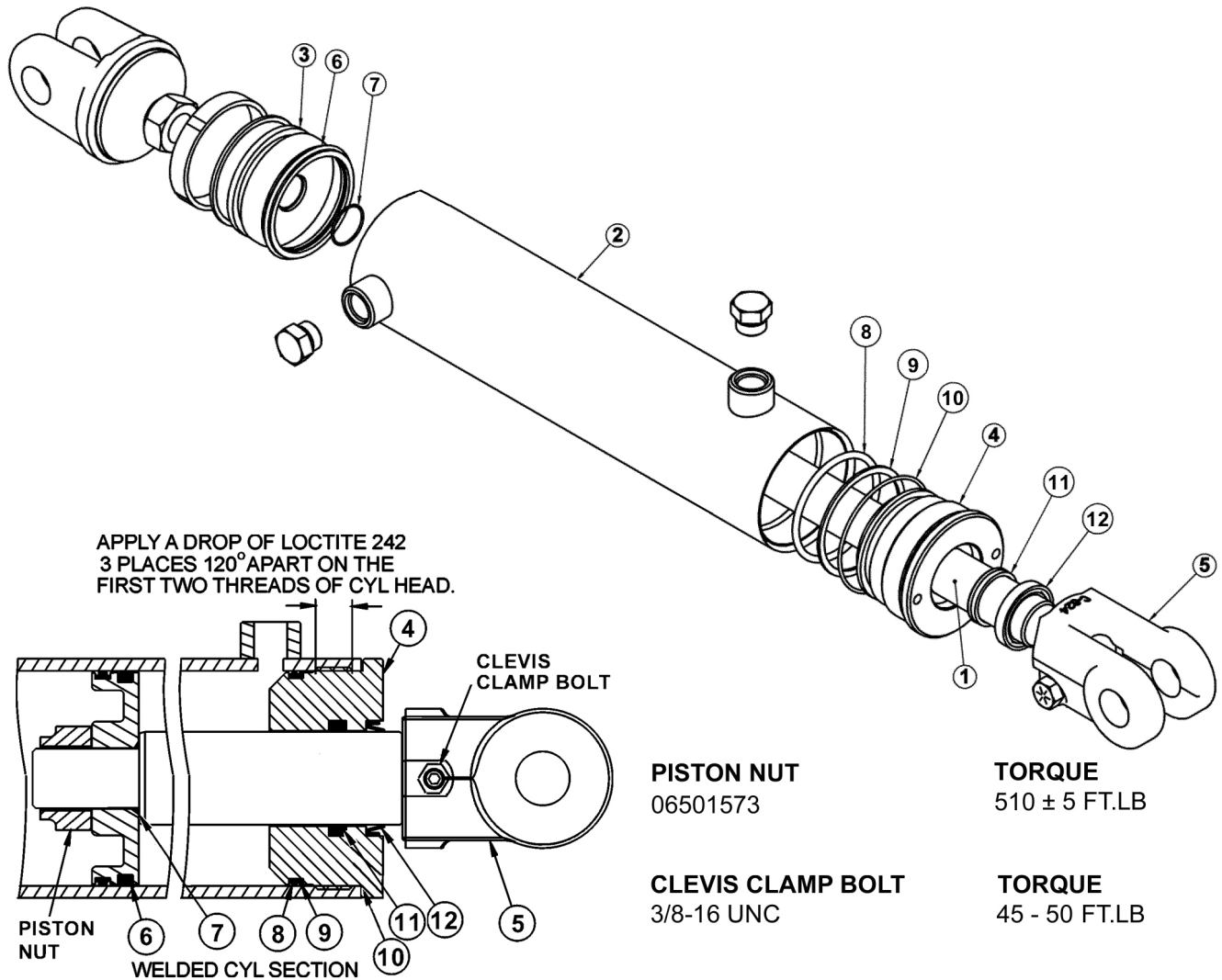
3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06501024	-	HYDRAULIC CYLINDER COMPLETE
1	06501565	1	ROD
2	06501566	1	TUBE WELDMENT
3	06501567	1	PISTON
4	06501568	1	CYLINDER HEAD
5	TB3033	-	CLEVIS
-----	06501569	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

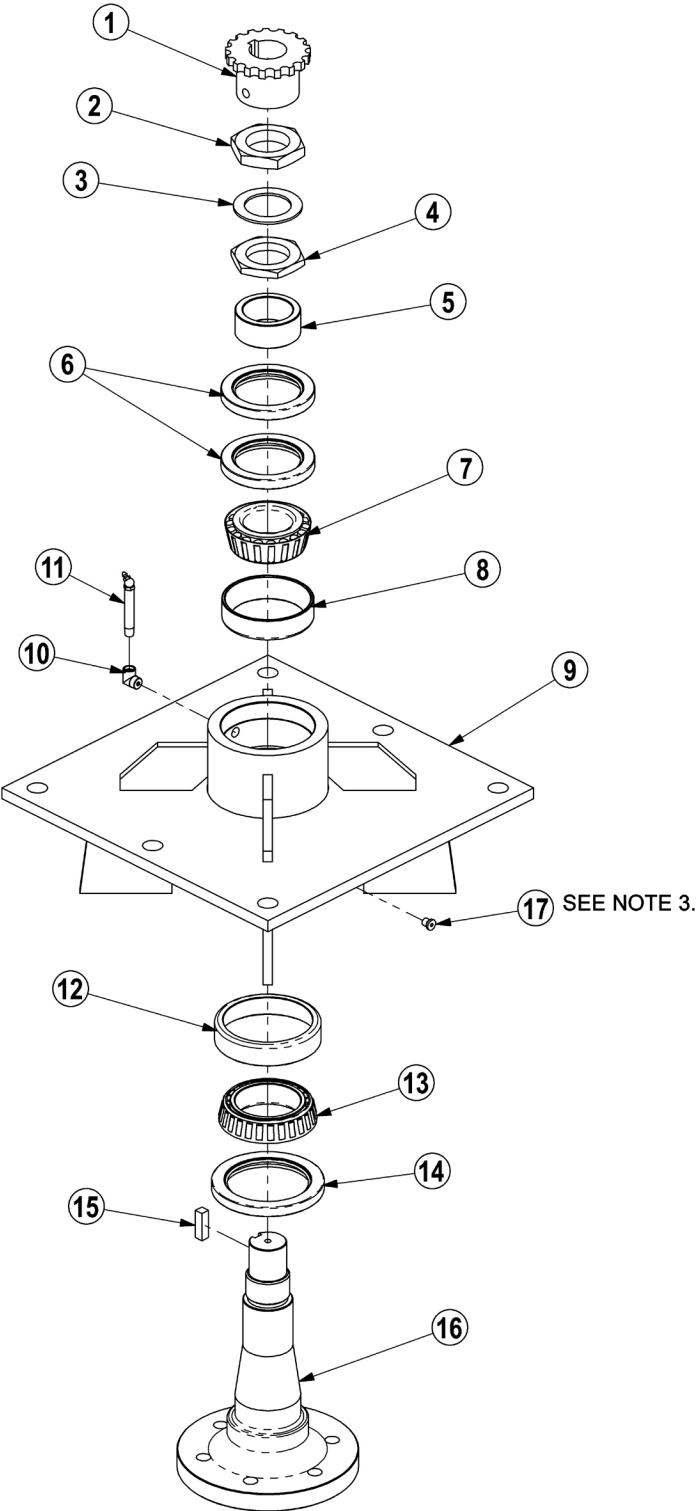
4IN X 20IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06501022	-	HYDRAULIC CYLINDER COMPLETE
1	06501556	1	ROD
2	06501557	1	TUBE WELDMENT
3	06501558	1	PISTON
4	06501559	1	CYLINDER HEAD
5	6T0172	1	CLEVIS
5A	30172	-	CLEVIS (FOR EXTENDED BOOM)
-----	06501560	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

ROTARY MOWER SPINDLE ASSEMBLY



NOTES:

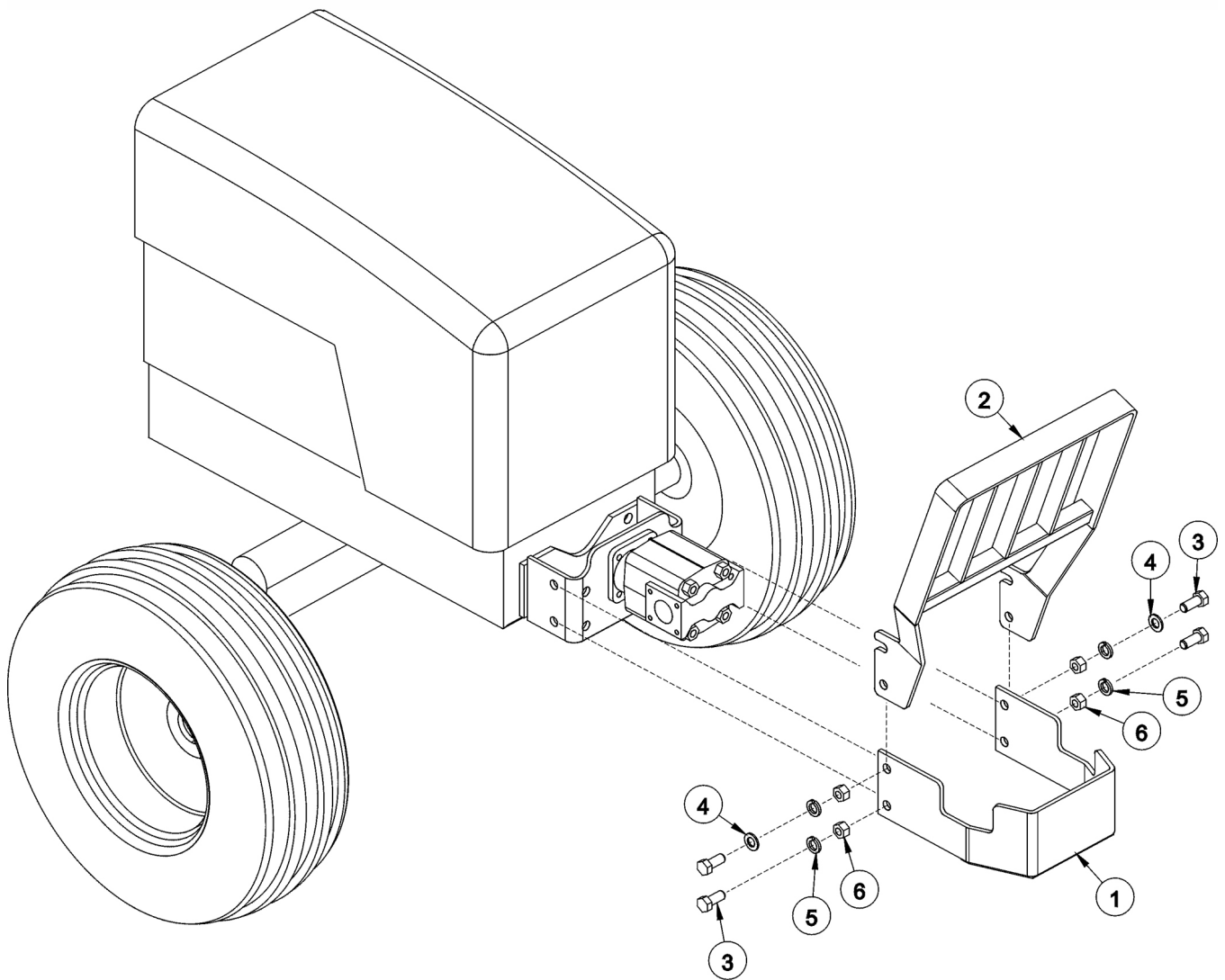
- 1. FREEPLAY: .001" - .003"
- 2. GREASE: FILL WITH MOBILITH SHC 220.
- 3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

ROTARY MOWER SPINDLE ASSEMBLY

Continued...

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

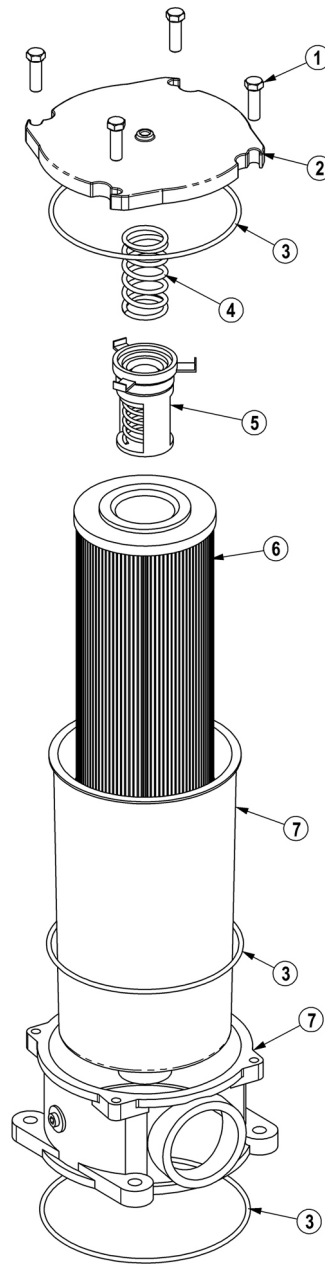
PUMP AND GRILL GUARD OPTIONS



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

COMMON LEGAL REAR STOW T4

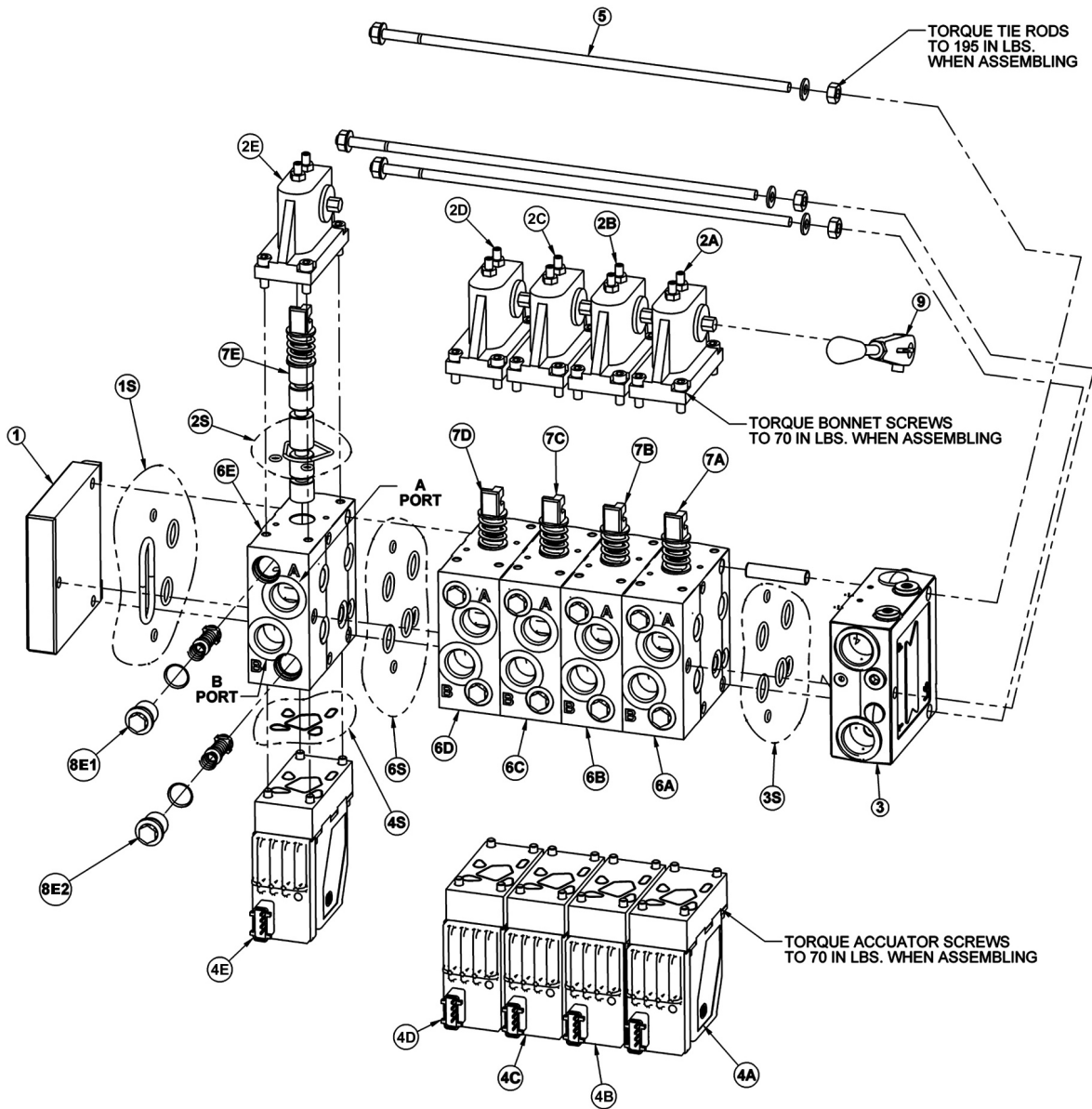
RESERVOIR TANK FILTER ASSEMBLY



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 LEGAL REAR STOW T4

5 SPOOL ELECTRONIC VALVE - BENGAL BRUTE



ITEM	PART NO.	QTY.	DESCRIPTION
-----	06502097	1	VLV,5SP,32PVG,REAR STOW
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	-----	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET
2E	42197	1	DECK SHIELD BONNET

COMMON LEGAL REAR STOW T4

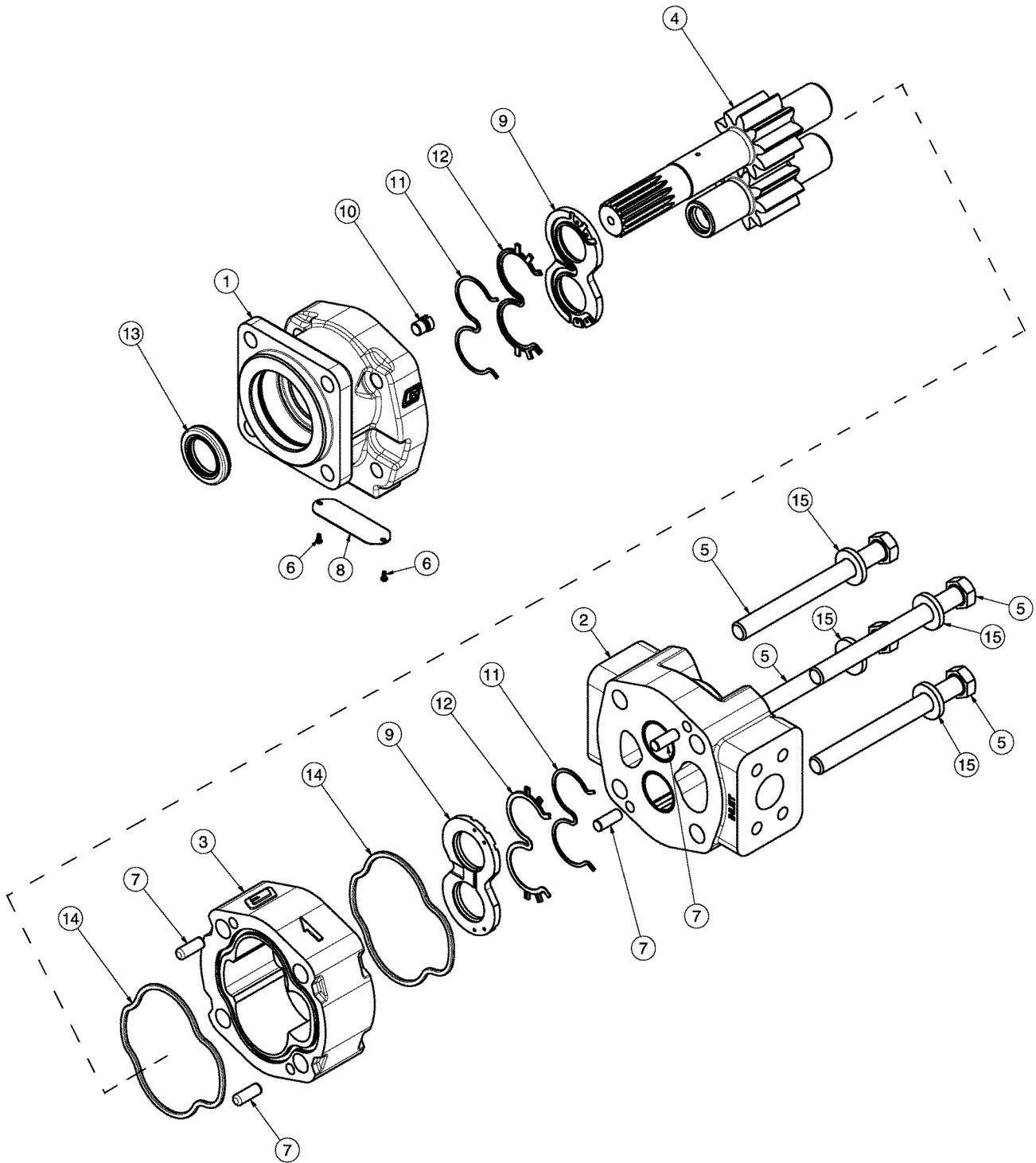
5 SPOOL ELECTRONIC VALVE - BENGAL BRUTE

Continued...

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

COMMON LEGAL REAR STOW T4

FRONT HYDRAULIC PUMP

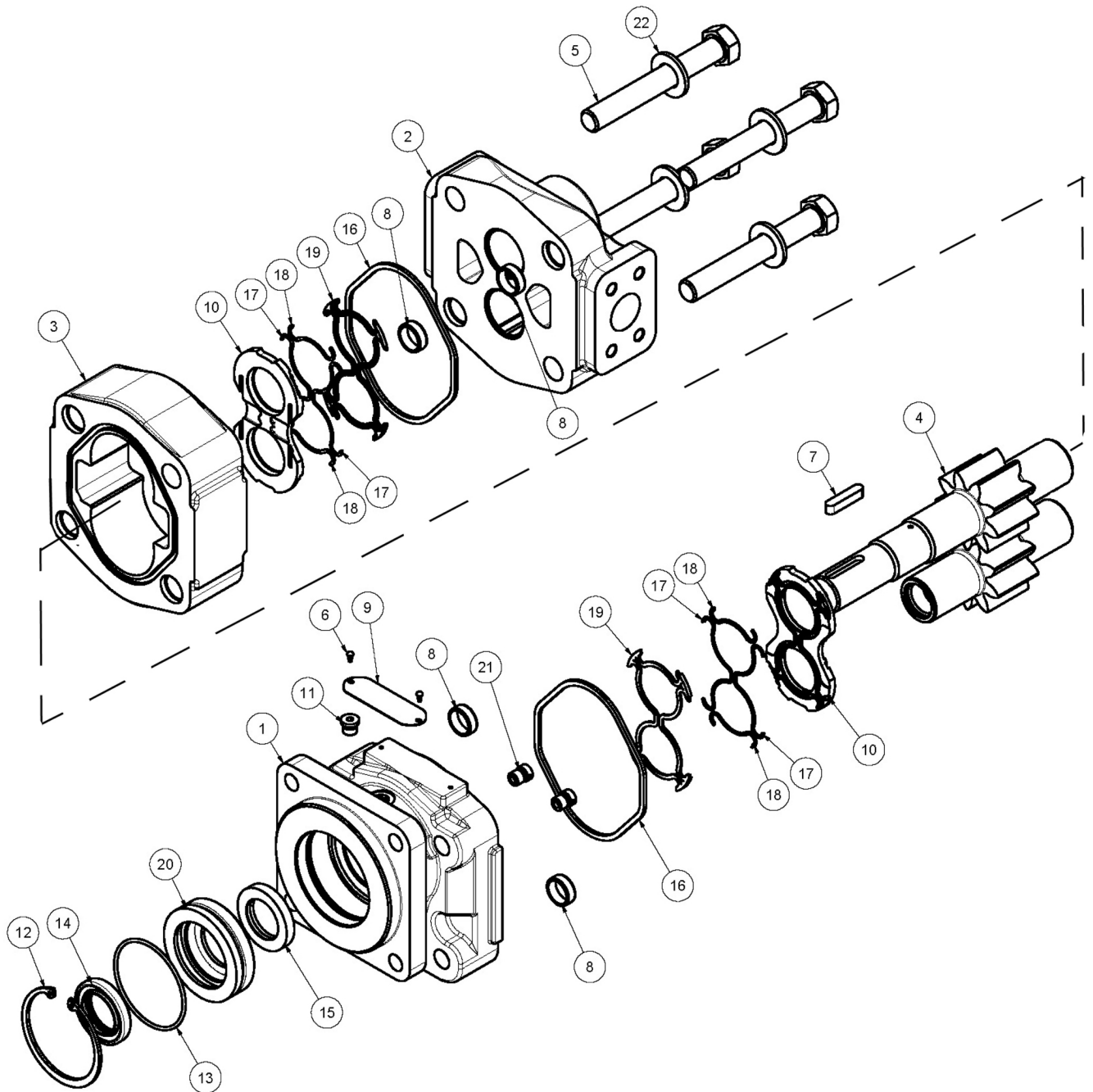


FRONT HYDRAULIC PUMP

Continued...

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

50IN AND 60IN ROTARY MOTOR BREAKDOWN



COMMON LEGAL REAR STOW T4

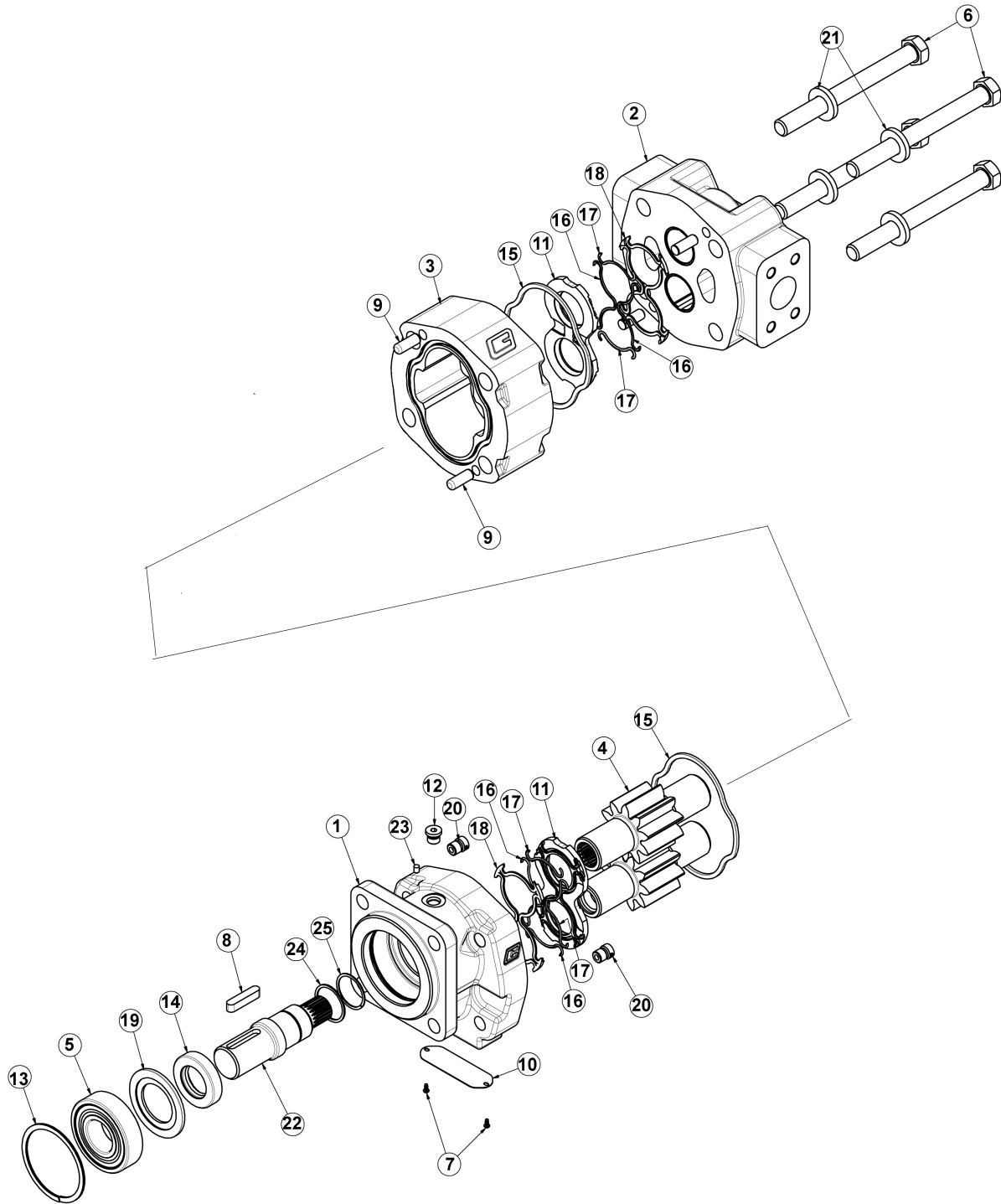
50IN AND 60IN ROTARY MOTOR BREAKDOWN

Continued...

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

COMMON LEGAL REAR STOW T4

FLAIL MOTOR BREAKDOWN



COMMON LEGAL REAR STOW T4

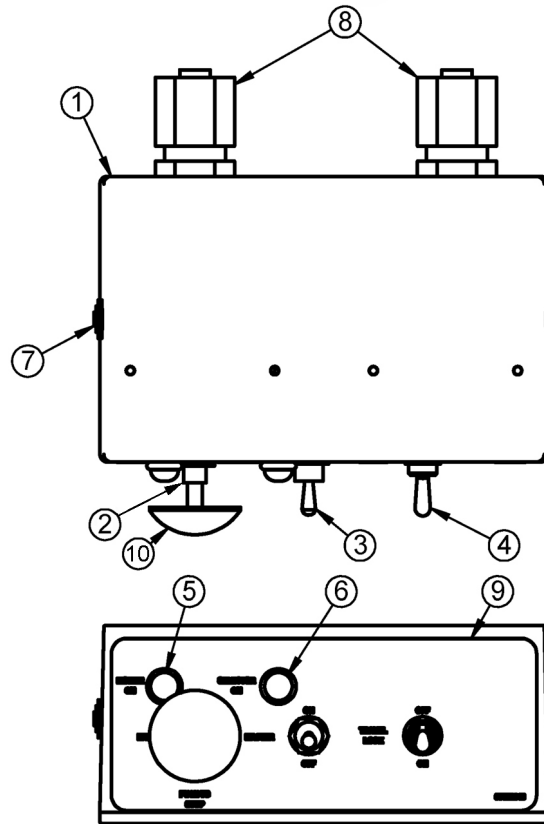
FLAIL MOTOR BREAKDOWN

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504132	-	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504141	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504117	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
10	*	1	NAMEPLATE
11	763759	1	THRUSTPLATE
12	2961940	1	PLUG, ODT (0.25)
13	TF4401	1	SNAP RING
14	06504142	1	LIP SEAL
15	TF4410	2	GASKET SEAL
16	06504046	4	SIDE SEAL
17	06504047	4	END SEAL
18	TF4407	2	BACK-UP SEAL
19	06504122	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	2961917	4	WASHER
22	06504140	1	SHAFT
23	06504139	1	BREATHER
24	06504121	1	SPACER, BRG
25	06504119	1	SNAP RING
*	06504022	-	SEAL KIT

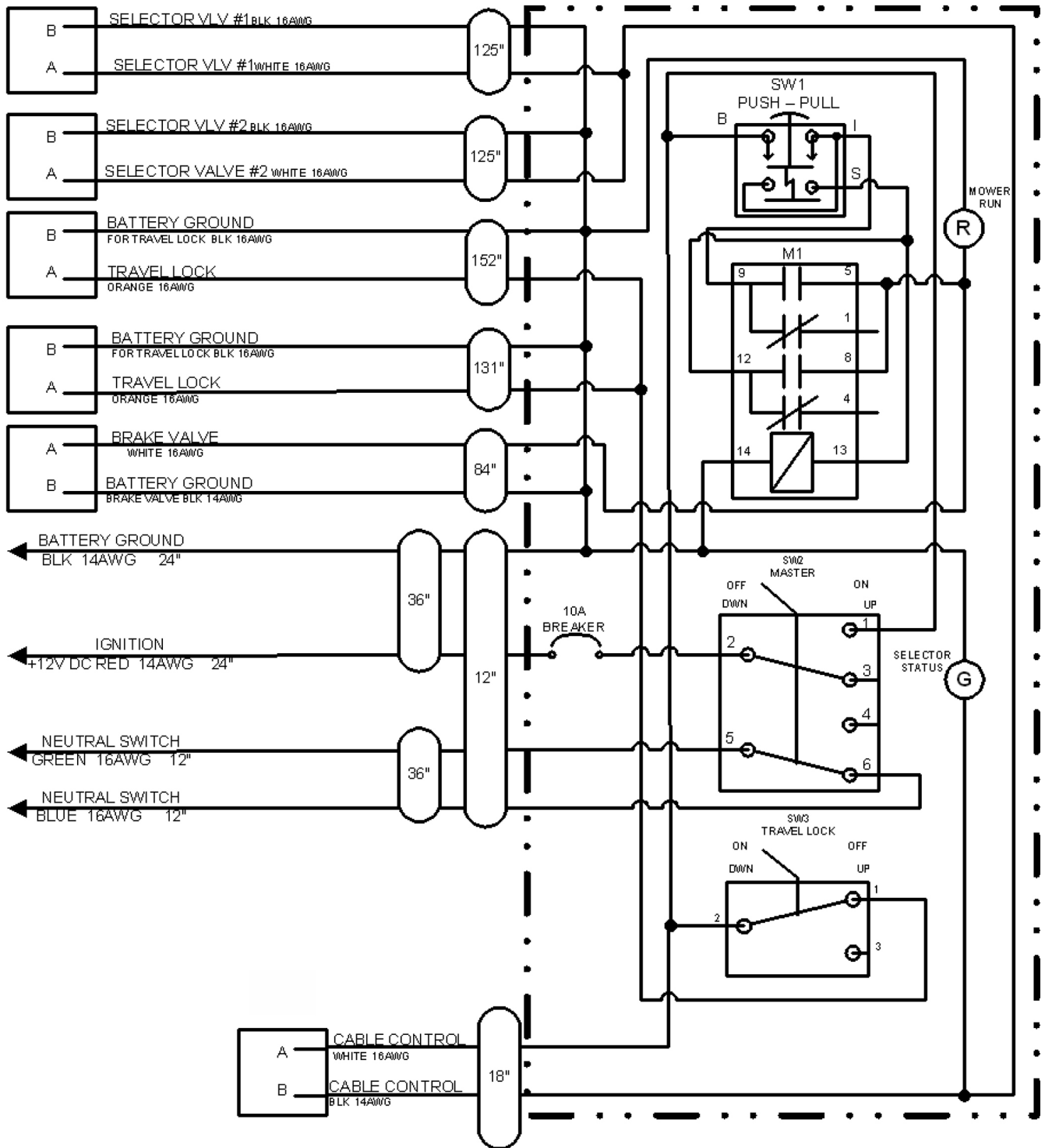
COMMON LEGAL REAR STOW T4

MANUAL LIFT VALVE SWITCH BOX

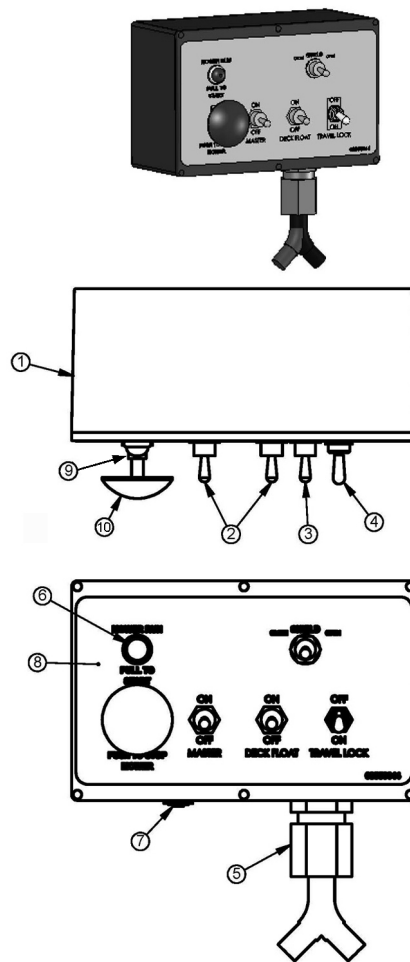


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510049	1	SWITCH BOX ASSEMBLY
---	06514010	1	SWITCH BOX
2	35226	2	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	34532	1	SWITCH,TRVL LCK
5	6T3923	1	INDICATOR LIGHT,ON,RED
6	06510193	1	INDICTATOR LIGHT,ON,GREEN
7	06514006	1	BREAKER,15A,SWBX
8	34540	2	STRAIN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

MANUAL LIFT VALVE SCHEMATIC

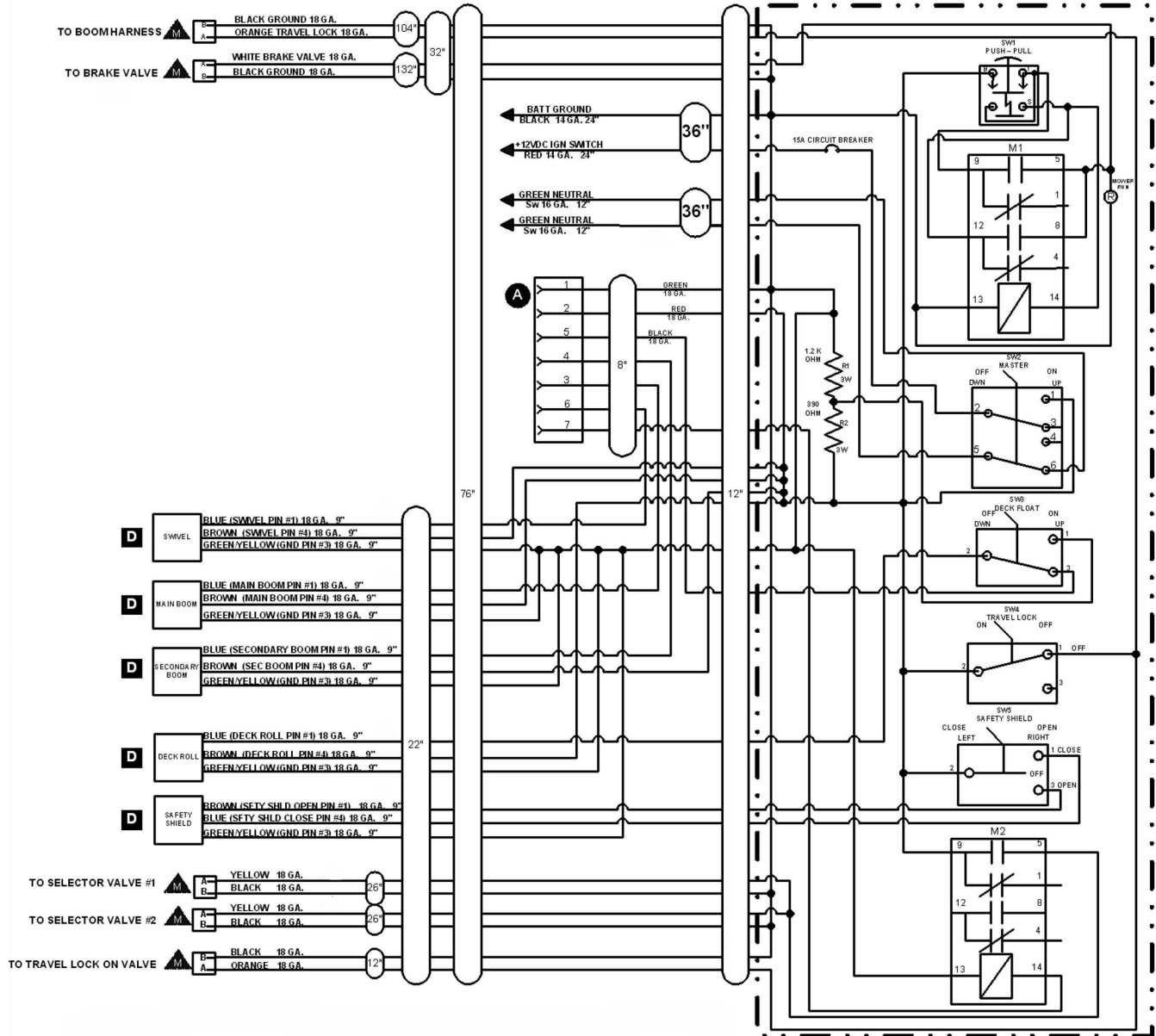


ELECTRONIC LIFT VALVE SWITCH BOX

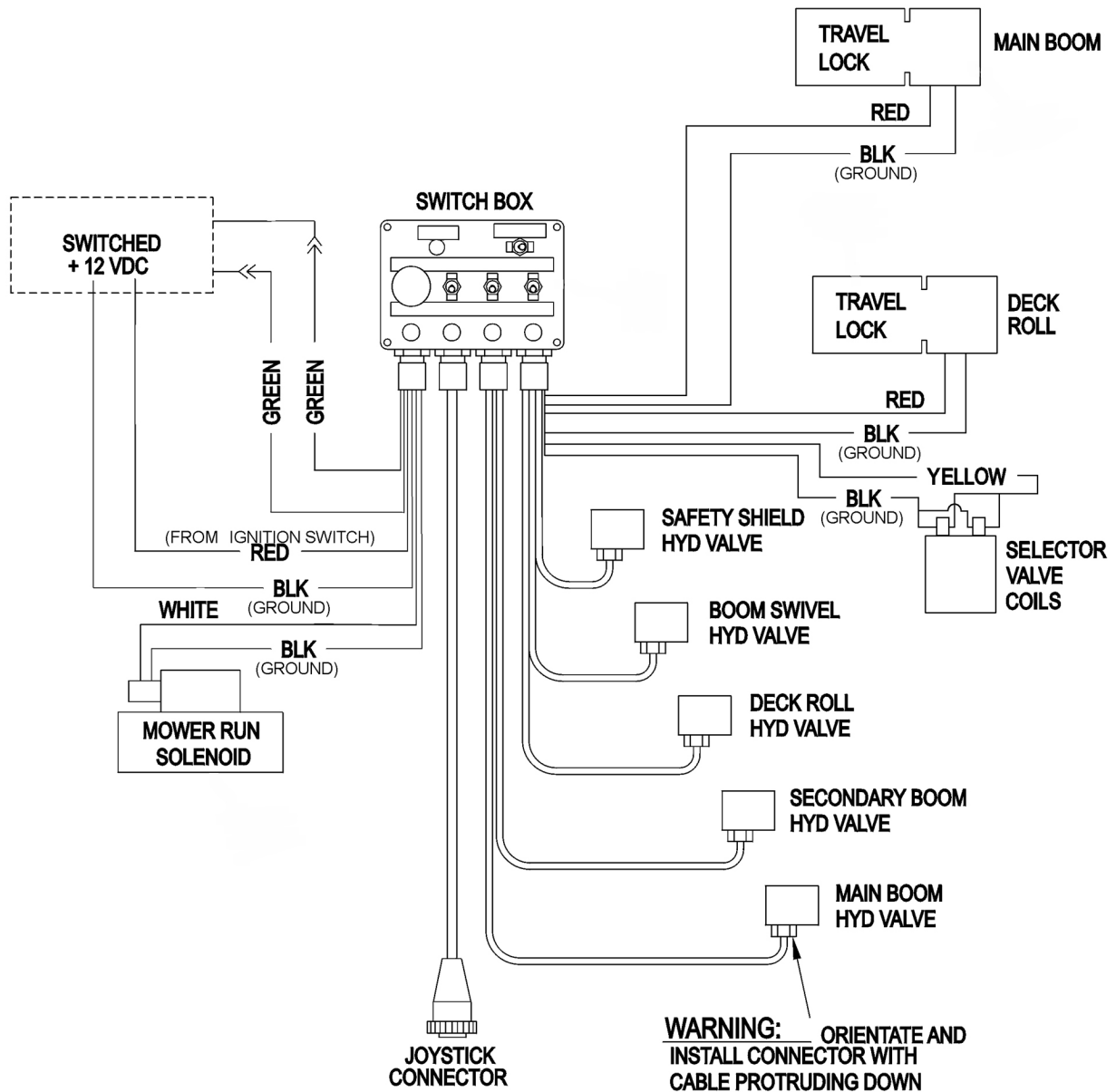


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510195	1	SWITCH BOX,ASSY
---	06514008	1	SWITCH BOX
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047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

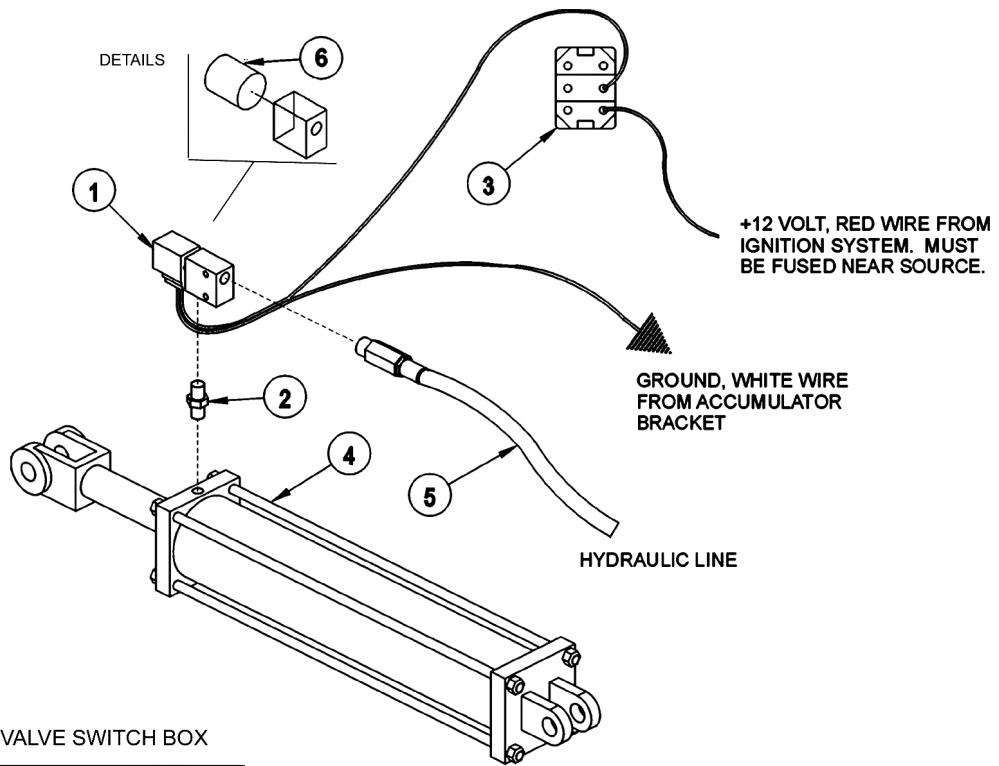
ELECTRONIC LIFT VALVE SCHEMATIC - REAR STOW



ELECTRONIC LIFT VALVE WIRING DIAGRAM



BOOM TRAVEL LOCK



ELECTRONIC LIFT VALVE SWITCH BOX

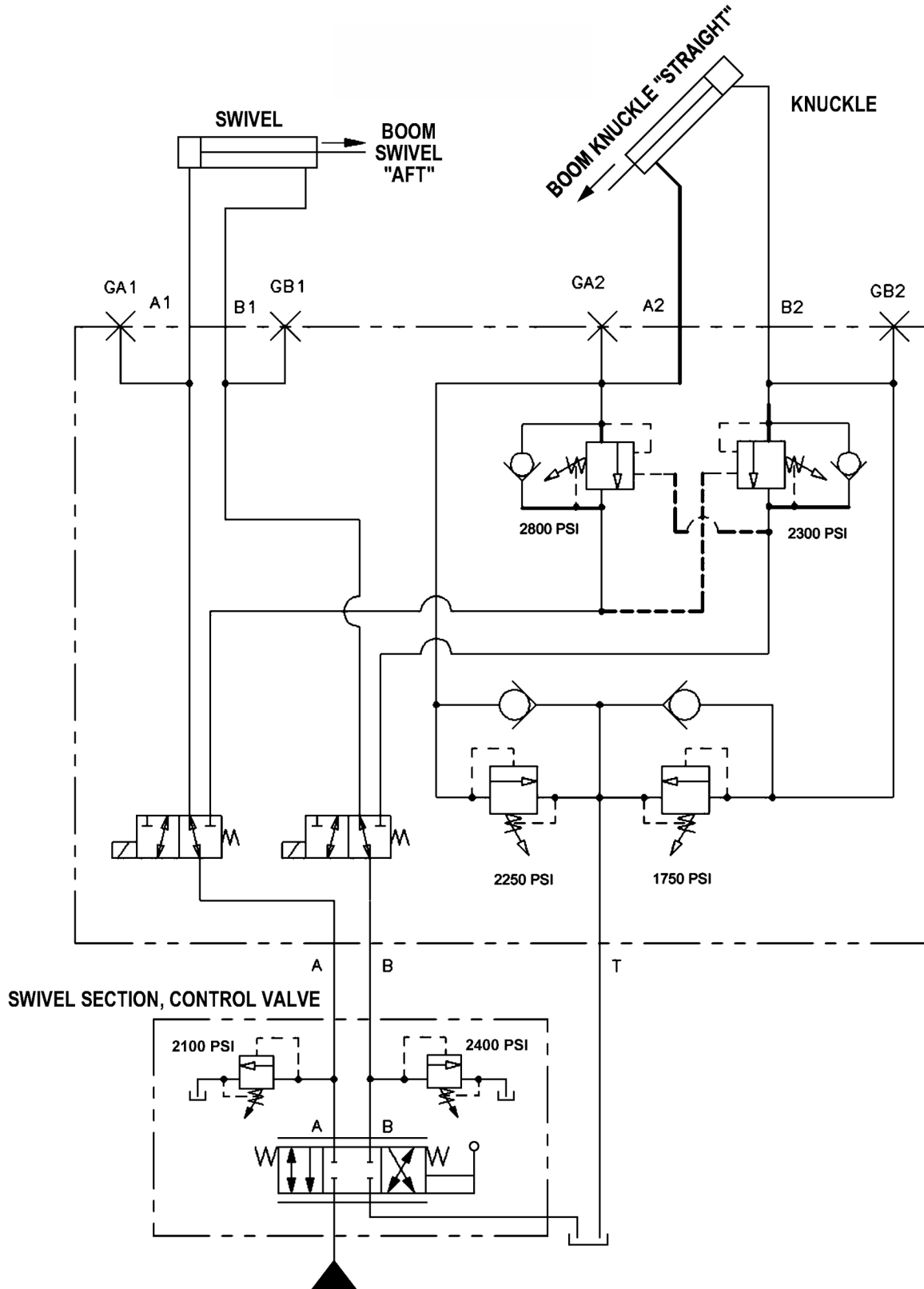


MANUAL LIFT VALVE SWITCH BOX

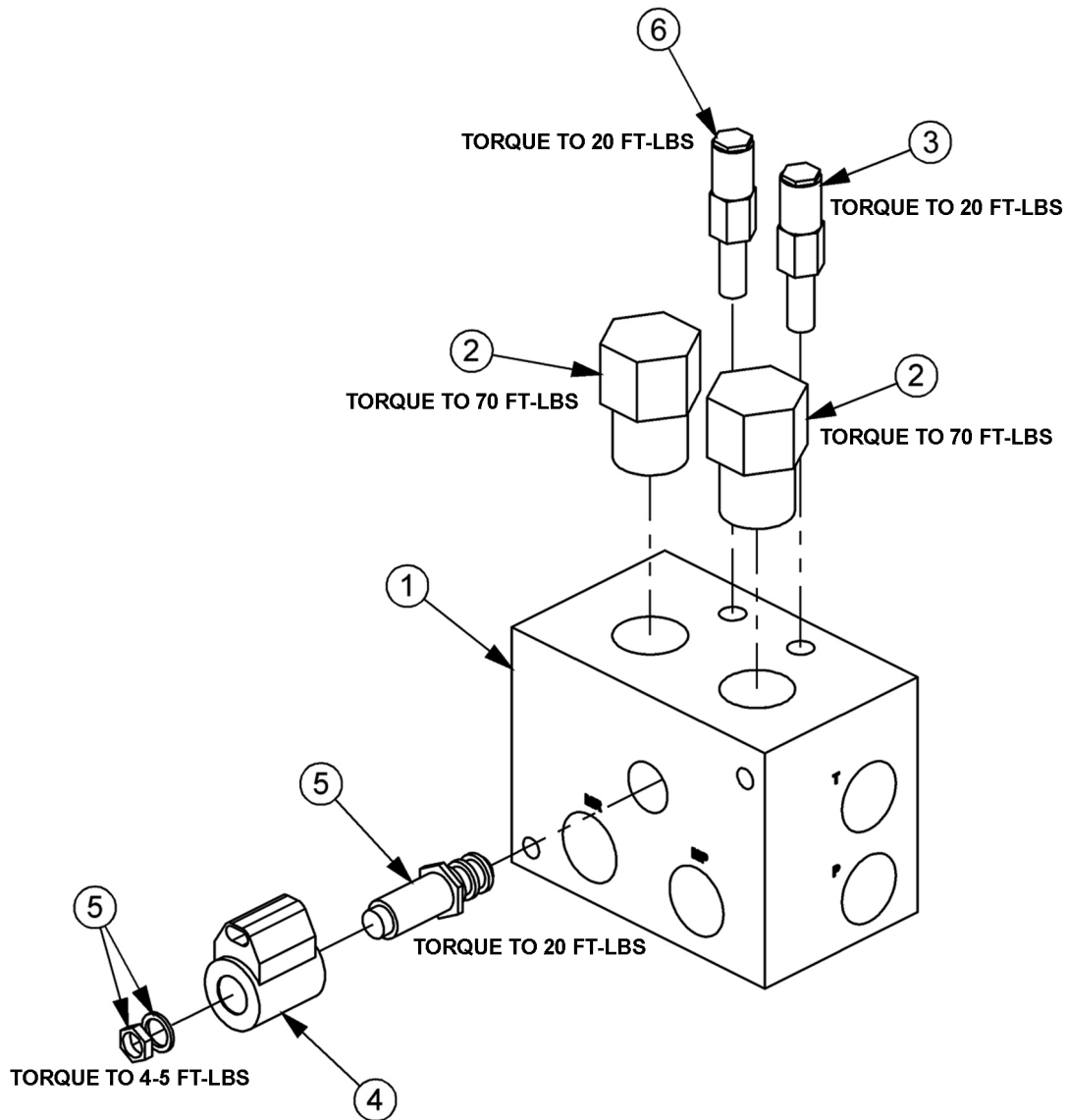


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510050	1	HYDRAULIC TRAVEL LOCK VALVE
2	31329	1	ADAPTER - STANDARD BOOM
3	34532	1	SWITCH,TRAVEL LOCK
4	-----	-	MAIN BOOM CYLINDER *REFER TO BOOM ASSY
5	-----	-	HOSE / FITTINGS *REFER TO BOOM HYD ASSY
6	06510092	1	COIL ,TRAVEL LOCK

SELECTOR VALVE SCHEMATIC

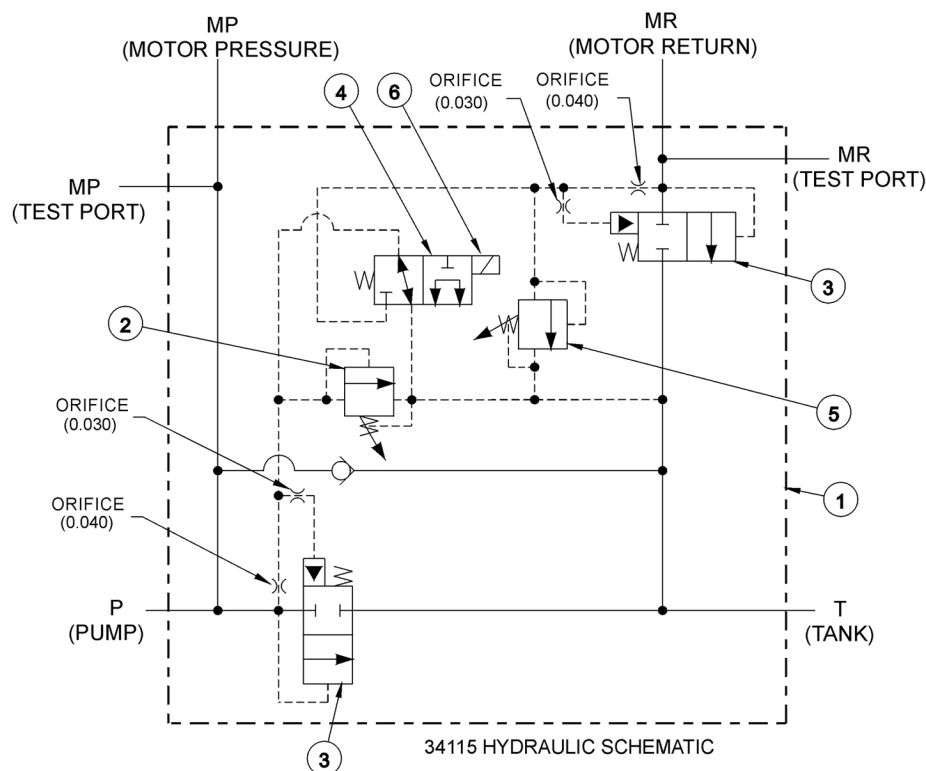


BRAKE VALVE ASSEMBLY



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

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

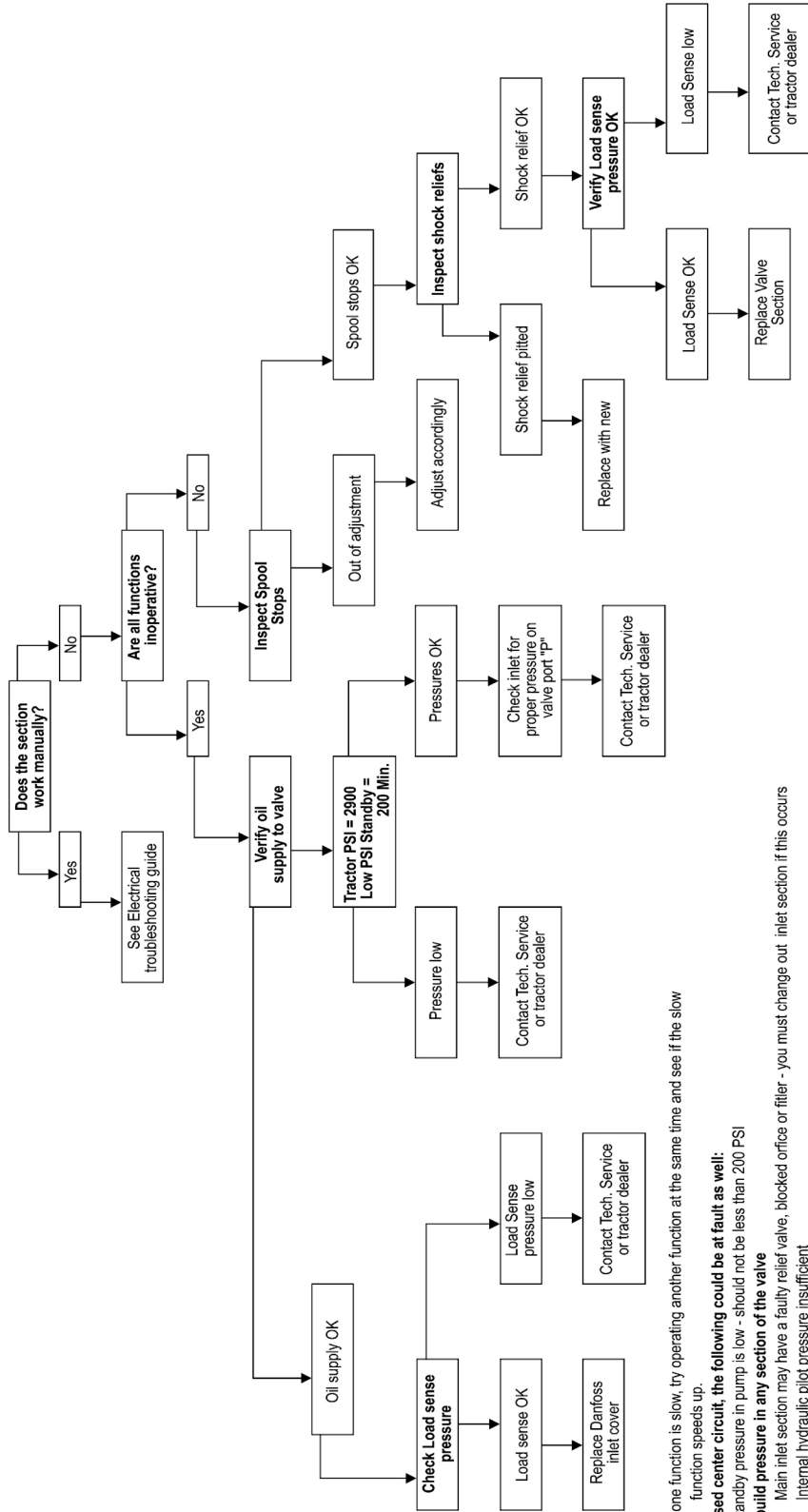
- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

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.

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:

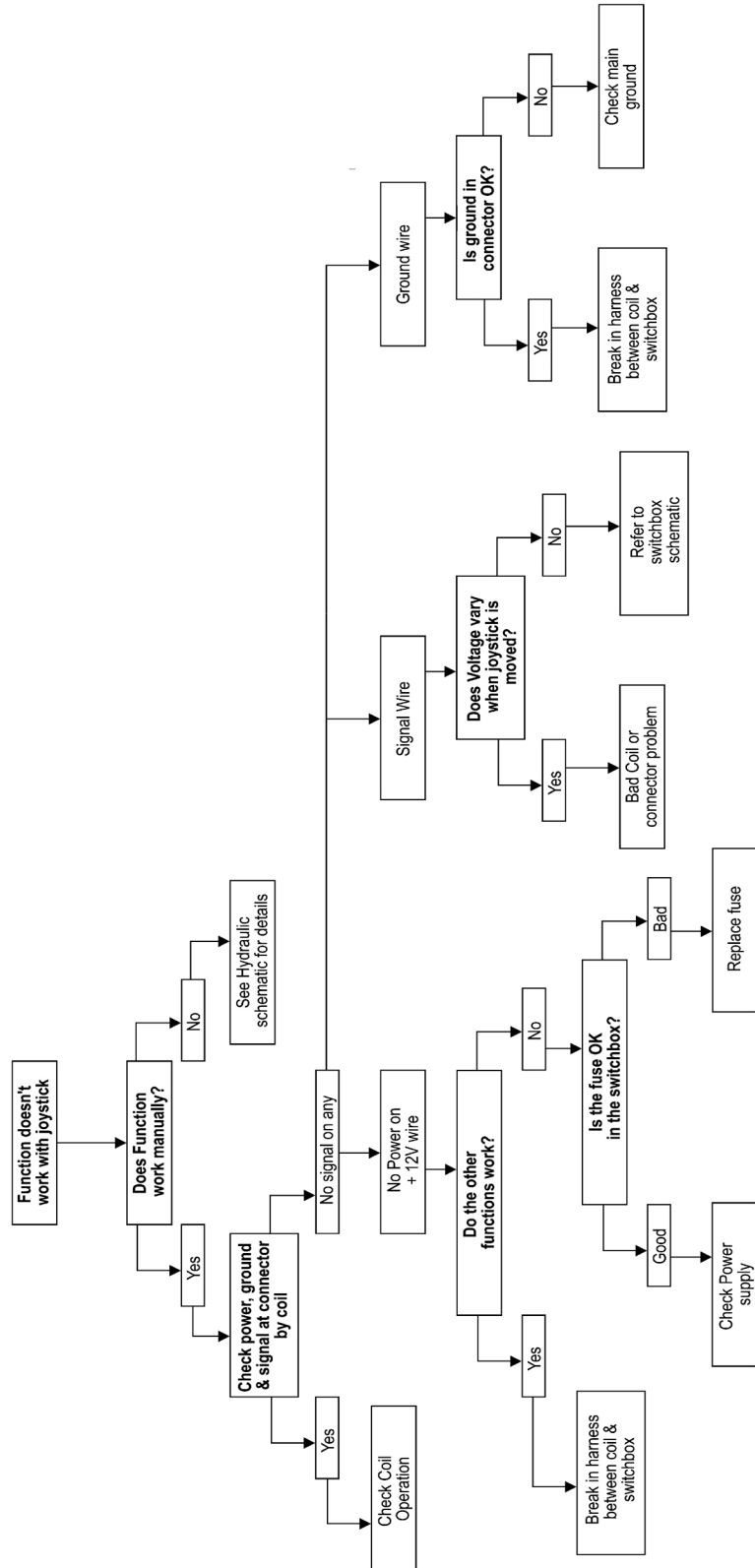
Tractor standby pressure in pump is low - should not be less than 200 PSI

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



TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

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

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

Electronic inspection.

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

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

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

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

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

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

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

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

Possible electronic problems.

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

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING - CONTINUED

Hydraulic inspection.

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

With the spools in Neutral

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

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

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

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

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

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

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

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

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

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

Operate more than one spool.

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

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

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

Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.



TIGER CORPORATION
WARRANTY INFORMATION

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

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

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

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

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

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

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

ONE LAST WORD

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



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

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