SIDE ROTARY ASSEMBLIES

JD 5101E

Current as of 08/27/2012

PARTS LISTING WITH
MOUNTING AND OPERATING
INSTRUCTIONS

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

06010006

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.

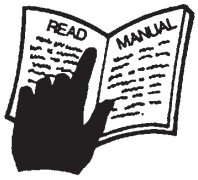
BEFORE YOU START!! Read the safety messages on the implement and shown in this manual. Observe the rules of safety and use common sense!

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.



2. NO RIDERS. NO CHILDREN OPERATORS.

3. USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, ROPS & OPS

4. BLOCK UP SECURELY BEFORE WORKING UNDER.

1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
- Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children

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

3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
- Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.

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

5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
- Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.

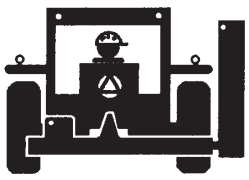
6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

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

8. Before dismounting, secure implement in transport position or lower to ground.
- Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
- Never mount or dismount a moving vehicle. Crushing from runover may cause serious injury or death.

5. TRANSPORT SAFELY, LOCK UP.

6. USE SMV, LIGHTS, & REFLECTORS.



7. DO NOT OPERATE WITH CUTTER OR WING RAISED.

8. DO NOT MOUNT OR DISMOUNT WHILE MOVING.

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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:
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3301 N. Louise Ave.
Sioux Falls, SD 57107
1-800-843-6849
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www.tiger-mowers.com

DISTRIBUTED BY:
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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.

SAFETY SECTION

SAFETY

General Safety Instructions and Practices

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


1000

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

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

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

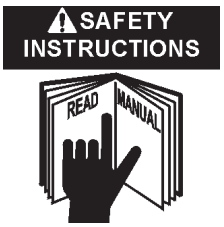
Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.

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

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

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

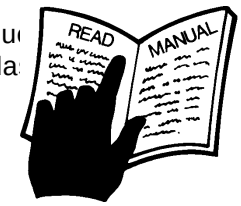
READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards. **(SG-2)**



SAFETY

PELIGRO!

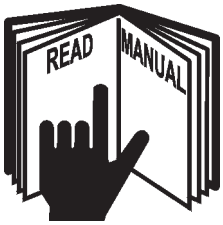
Si no lee Ingles, pida ayuda a alguien qu si lo lea para que le traduzca las medida de seguridad. (SG-3)



¡ LEA EL INSTRUCTIVO!

DANGER!

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

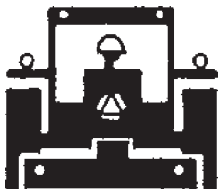


WARNING!

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

WARNING!

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



WARNING!

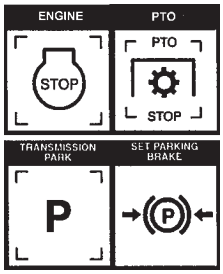
Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)

WARNING!

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

DANGER!

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



SAFETY

DANGER!

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

DANGER!

Never allow children to operate or ride on the Tractor or Implement. (SG-11)

WARNING!

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

DANGER!

Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death. Read the Tractor operators manual for proper starting instructions. (SG-13)

DANGER!

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

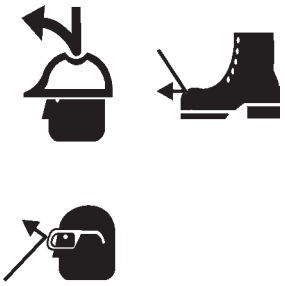
DANGER!

Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)

SAFETY

WARNING!

The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items thrown by the equipment. (SG-16)



CAUTION!

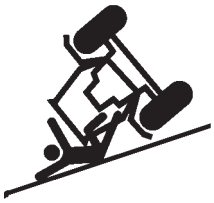
PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS! Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. (SG-I7)

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.**
   Only transport the Tractor and Implement at the speeds that you have determined are safe and which allow you to properly control the equipment.
3. **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 andwatch out for the other guy.** (SG-19)



SAFETY

WARNING!

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

WARNING!

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

WARNING!

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

DANGER!

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

DANGER!

KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. (SG-24)

DANGER!

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

DANGER!

DO NOT allow any person under a folded wing unless wing is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-3)

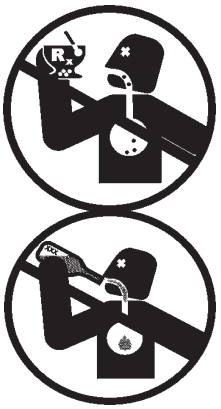
SAFETY

CAUTION!

On a fully-assembled unit, do not remove the Wing Retaining Strap until hoses are attached to the tractor and the Wing Cylinders are filled with oil. Lower the Wings slowly and carefully. Keep bystanders away during operations. (STI-5)

DANGER!

NEVER use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. **NEVER** knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. (SG-27)



DANGER!

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

WARNING!

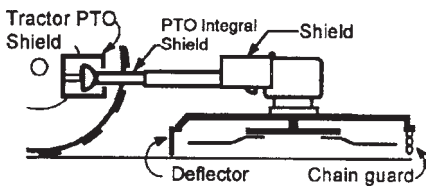
Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 yards in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby,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

DANGER!

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

DANGER!

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



SAFETY

DANGER!

The rotating parts of this machine have been designed and tested for rugged use. However, the blades could fail upon impact with heavy, solid objects such as metal guard rails and concrete structures. Such impact could cause the broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the cutting blades to contact such obstacles. (SGM-4)

WARNING!

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

WARNING!

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

WARNING!

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

WARNING!

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

WARNING!

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

DANGER!

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

WARNING!

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

SAFETY

DANGER!

Rotary 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.

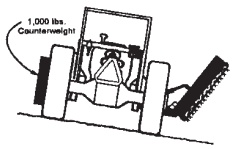
STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:

- -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 removed, and mowed again at desired final height. (SBM-1)

WARNING!

Each Rear Wheel must have a minimum of 1,000 pounds 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 Couterweight Procedure. (SFL-3)



WARNING!

Do not operate Mower if excessive vibration exists. Shut down PTO and the Tractor engine. Inspect the Mower to determine the source of the vibration. If Mower blades are missing or damaged replace them immediately. Do not operate the mower until the blades have been replaced and the Mower operates smoothly. Operating the Mower with excessive vibration can result in component failure and 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 Mower to be operated with blades missing. (SFL-4)

WARNING!

Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-7)

DANGER!

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

SAFETY

WARNING!

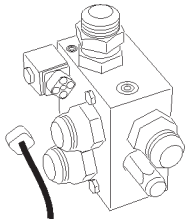
Never leave the Tractor and Implement unattended while the Implement is in the lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing. To properly park the implement when disconnecting it from the tractor, lower the stand and put the retaining pin securely in place, or put a secure support under the A-Frame. Lower the implement carefully to the ground. Do not put hands or feet under lifted components. (S3PT-1)

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 valve 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-12)



WARNING!

Use extreme care when lowering or unfolding the implement's wings. Make sure no bystanders are close by or underneath the wings. Allow ample clearance around the implement when folding or unfolding the wings. Use extreme caution around buildings or overhead power lines. (S3PT-5)

WARNING!

Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Implement on the ground or securely blocked up, disengage the PTO, and turn off the tractor engine. Push and pull the Remote Cylinder lever in and out several times prior to starting any maintenance or repair work. (S3PT-9)

DANGER!

This Implement is wider than the Tractor. Be careful when operating or transporting this equipment to prevent the Implement from running into or striking sign posts, guard rails, concrete abutments or other solid objects. Such an impact could cause the Implement and Tractor to pivot violently resulting in loss of steering control, serious injury, or even death. Never allow the Implement to contact obstacles. (S3PT-12)

DANGER!

The flail cutter shaft is designed for standard rotation(same rotation as the tractor wheel 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!

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

"Wait a minute...Save a life!"

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!

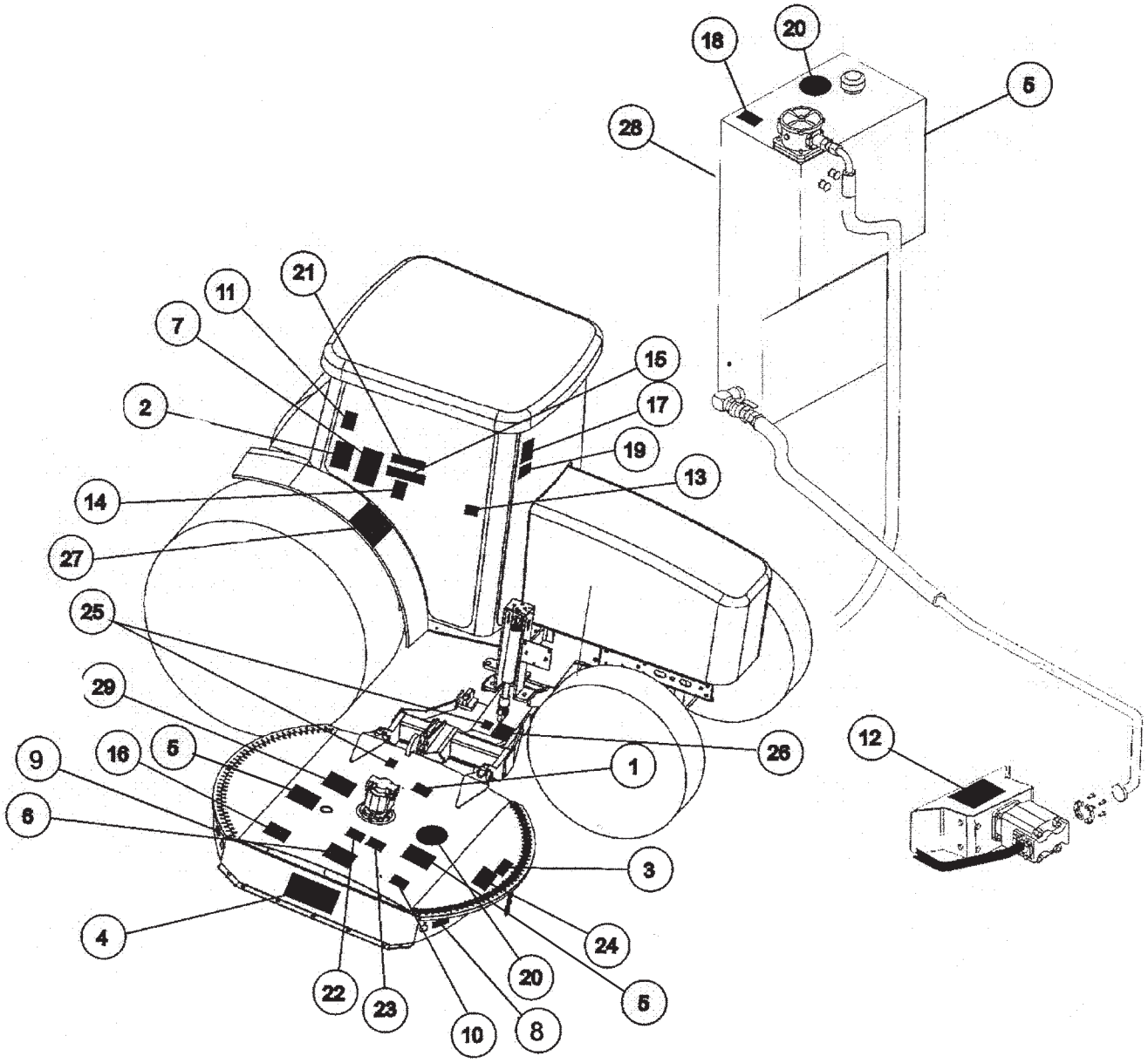
Battery post, terminals and related accessories contain lean and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

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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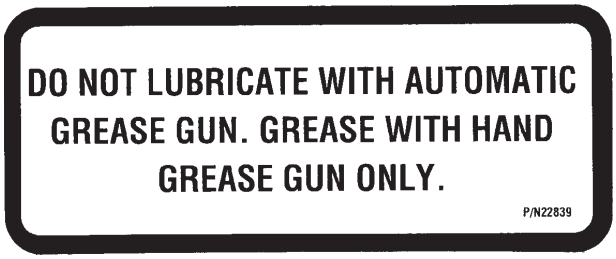
ITEM	PART NO.	QTY.		DESCRIPTION
1	22839	1	INSTRUCT	Don Not Lubricate With Automatic Grease Gun
2	22840	1	WARNING	Foreign Objects Contacted
3	24028	1	WARNING	Inspect Rear Flap
4	31522	1	LOGO	TIGER MOWERS
5	31523	3	LOGO	TIGER MOWERS
6	42350	1	DANGER	Cuttershaft Direction
7	33743	1	INSTRUCT	Mowing Safet Tips
8	42399	1	REFLECT	Red Reflector
9	42400	1	REFLECT	Amber Reflector
10	6T3217	1	DANGER	Keep Hands and Feet Clear
11	6T3219	1	WARNING	Read Operators and Maintenance Manuals
12	6T3220	1	INTRUCT	Lubricate Pump, Driveshaft Daily
13	6T3221	1	CAUTION	Lubricate Spindle When Mower and Tractor Off
14	6T3222	1	INSTRUCT	Engine will not start when mower is engaged
15	1059	1	INSTRUCT	Mower Positions
16	6T3224	1	DANGER	Stay Clear, Discharge Opening
17	6T3230	1	WARNING	Don't Operate with Bystanders in Area
18	6T3233	1	CAUTION	DONOT Start or Run with Valves closed
19	6T3234	1	CAUTION	Check Crankshaft Adapter Daily
20	6T3236	1	LOGO	Made In USA
21	6T3243	1	WARNING	Replace Bolts and Locknut if damaged
22	6T3249A	1	INSTRUCT	Grease Inst. Cuttershaft Bearing
23	6T3261	1	INSTRUCT	Grease Inst. Ground Roller Bearing
24	TB1011	1	WARNING	Do Not Work Mower with Safety Shiel Removed
25	02962764	1	WARNING	Pinch Point
26	02965262	1	WARNING	Hydraulic Hose Repair
27	02967827	1	DANGER	Multi Warn Messages
28	34852	1	INSTRUCT	Hydraulic Specifications
29	00756059	1	WARNING	Check Hydraulic Hose with Cardboard

SAFETY

PART NO.
LOCATION



22839
MOWER DECK

22840
INSIDE OF CAB

24028
MOWER DECK

10"X5.5" 31522
MOWER DECK

18.25"X10" 31523
HYDRAULIC TANK

SAFETY

PART NO.
LOCATION

42350
MOWER DECK

5

33743
INSIDE OF CAB

[redacted]

42399
MOWER DECK

[redacted]

42400
MOWER DECK

SAFETY

PART NO.
LOCATION

6T3217
MOWER DECK

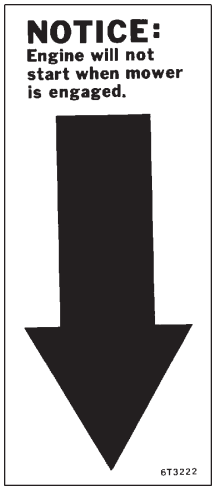
6T3219
INSIDE OF CAB

6T3220
FRONT PUMP MOUNT

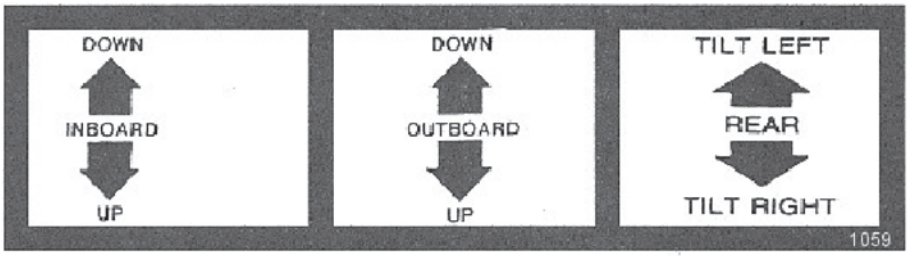
6T3221
INSIDE OF CAB

29-6T3221

PART NO.
LOCATION



6T3233
INSIDE OF CAB



1059

6T3234
INSIDE OF CAB

6T3236
MOWER DECK

6T3243
INSIDE OF CAB

SAFETY

PART NO.
LOCATION

6T3233
HYDRAULIC TANK

6T3234
INSIDE OF CAB

6T3236
MOWER DECK
HYDRAULIC TANK

6T3243
INSIDE OF CAB

PART NO.
LOCATION

6T3249A
MOWER DECK

6T3261
MOWER DECK

TB1011
MOWER DECK

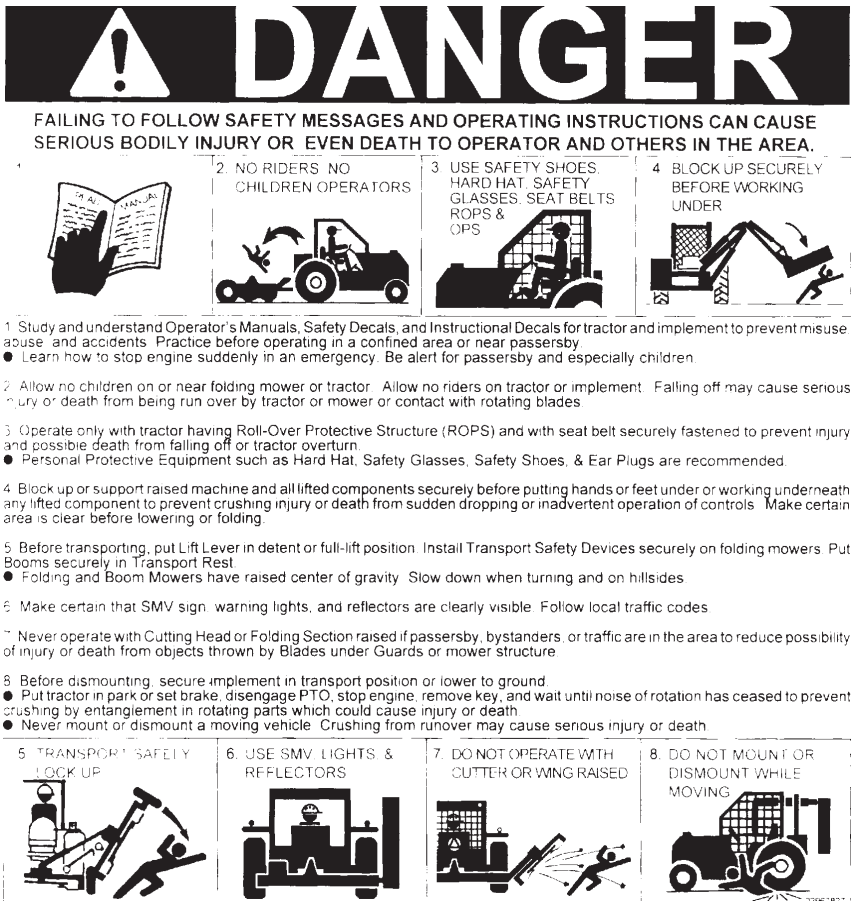
02962764
MOWER DECK
DRAFT BEAM

SAFETY

PART NO.
LOCATION

02965262
DRAFT BEAM

02967827
CAB FENDER



SAFETY

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

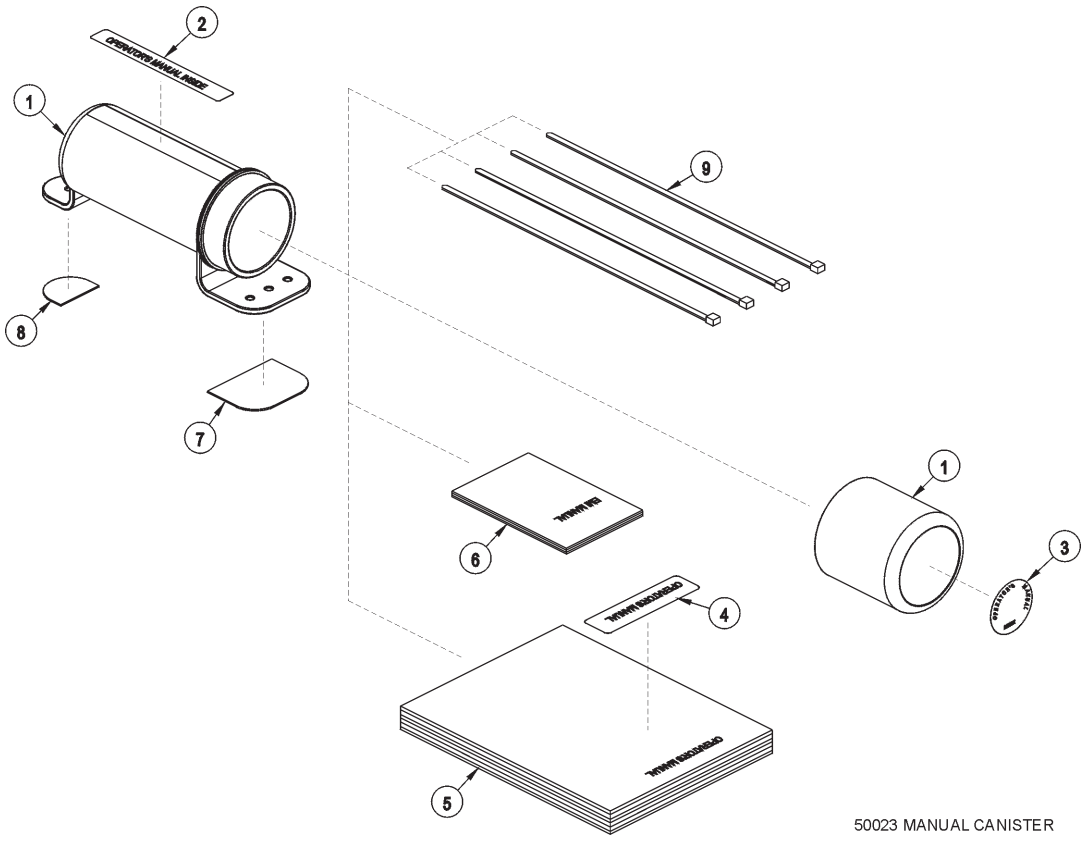
For Mobil product information, availability, or technical information, call 1-800-662-4525.

Tiger PN 34852

34852
HYDRAULIC TANK

00756059
MOWER DECK

SAFETY



50023 MANUAL CANISTER

ITEM	PART NO.	QTY.	DESCRIPTION
	50023	**AVAIL**	**MANUAL CANISTER COMPLETE**
1	00776031	1	Round Manual Canister
	33997	1	Decal, Sheet, Manual Canister
2		*	Decal
3		*	Decal
4		*	Decal
5	*	AVAIL	Specification Product Manual
6	33753	1	EMI 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.

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 Truck and Implement operation, it is the employer's responsibility to:

1. Train the employee in the proper and safe operation of the Truck and Implement.
2. Require that the employee read and fully understand the Truck and Implement Operator's manual.
3. Permit only qualified and properly trained employees to operate the Truck and Implement.
4. Maintain the Truck and Implement in a safe operational condition and maintain all shields and guards on the equipment.
5. Ensure the Truck is equipped with functional seat belts and require that the employee operator securely fasten the safety belts at all times.
6. Forbid the employee operator to carry additional riders on the Truck.
7. Provide the required tools to maintain the Truck 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 or service your T iger mower, it is important to read and understand all of the information 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!

CAUTION!

Use a floor jack, hoist or fork lift to lift or raise heavy parts whenever possible whether mentioned or not.

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.

TRACTOR PREPARATION

A: Remove right hand steps.

B: Disconnect cables from both batteries, (remove batteries and the battery box from cab units only.)

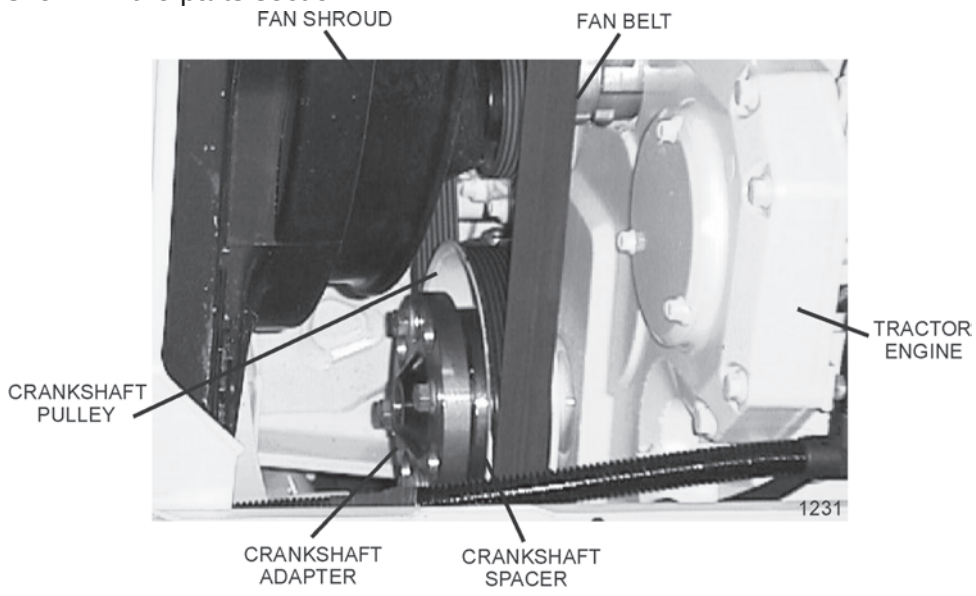
C: Remove engine side panels, or raise hood to access front pulley.

D: Remove plugs from tractor casting where main frame and pump mount will be attached.

E: Raise the tractor onto jack-stands and remove the right rear wheels.

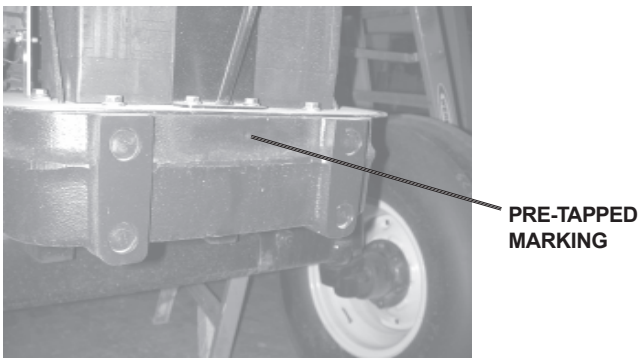
CRANKSHAFT ADAPTER

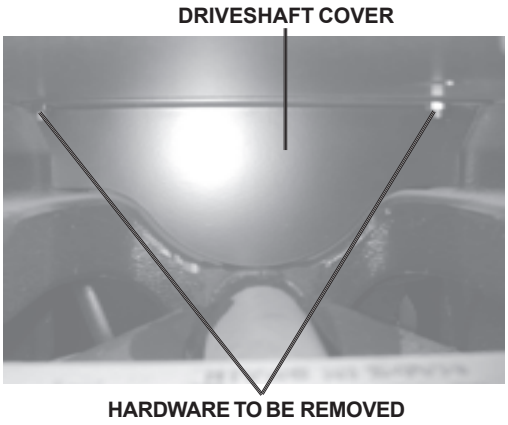
If necessary remove the four cap-screws from the crankshaft pulley. Then install the crankshaft adapter and spacer to the pulley with cap-screws and lock-washers as shown in the parts section



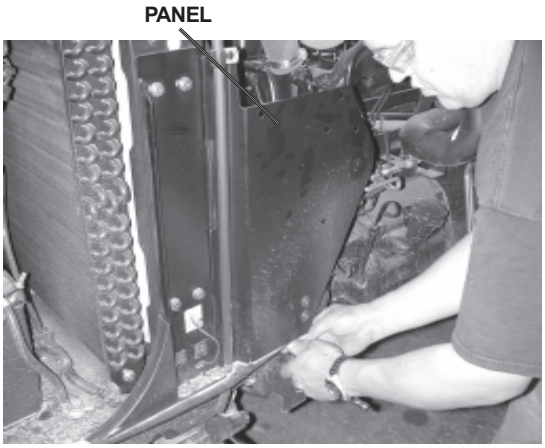
DRIVESHAFT ACCESS

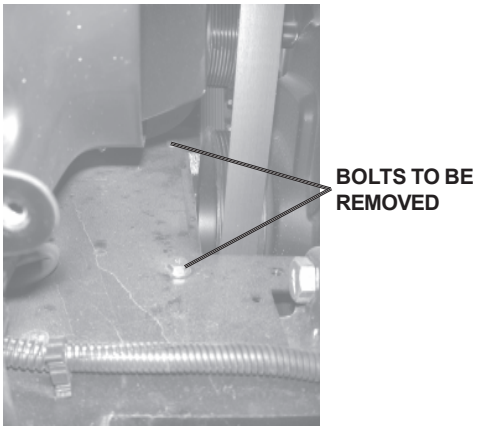
To access the driveshaft of the JD-5101E, a hole will need to be cut in the front of the tractor frame. Find the tapped marking on the front end of the tractor (shown below.) Using a 1-1/2" hole saw, cut a hole for the driveshaft. Once the hole is cut you will be able to look through the hole and see the driveshaft cover.





The driveshaft cover is held on by two bolts. To remove these bolts take off the panel covering the fan. Then you will have access to the bolts on the driveshaft cover.





ADJUSTING REAR WHEELS

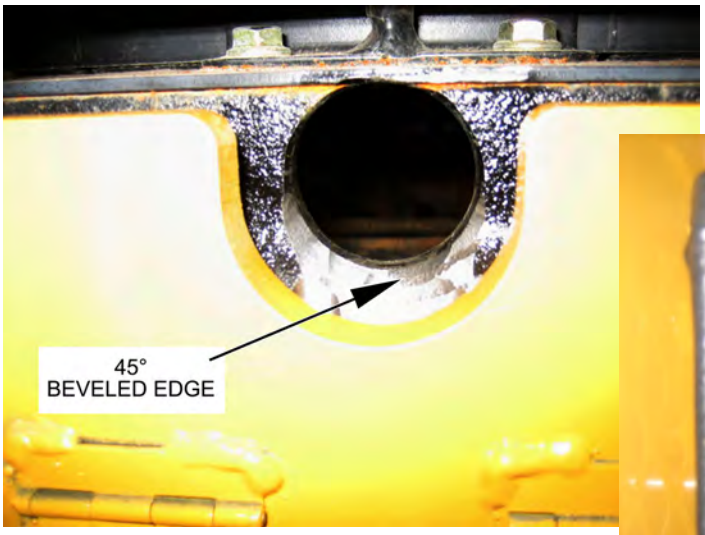
Raise rear of tractor onto jack-stands and adjust tires / rims all the way out. **Follow the instructions in the tractor owners manual for adjusting tires and rims**. NOTE: This may require switching the wheels to opposite sides of tractor. Do not reinstall wheels onto tractor until valve has been mounted (cab), and all hoses have been installed

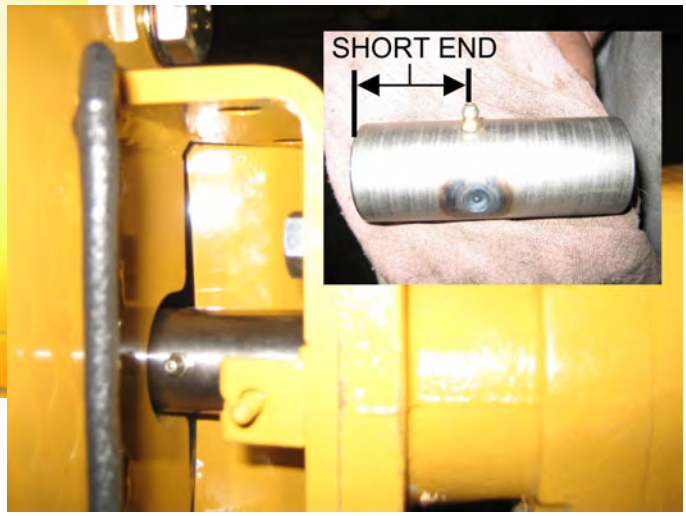
WHEEL SPACER WITH WHEEL WELL TANK

When the left wheel is off, a spacer kit is needed with the wheel well tank (part# 06200637.) Attach the spacer to the left wheel portion of the axle with the hardware provided. When you are ready to re-attach the left wheel, the wheel goes on first then the reinforcement ring and finally the hardware provided.

DRIVESHAFT COUPLER - LOADER

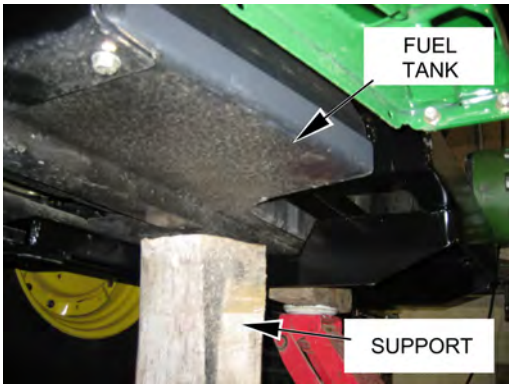
To access the driveshaft of the JD-5101E, a hole will need to be cut in the front of the tractor frame. After cutting a hole into the front casting the bottom edge of the hole needs to be beveled out at a 45° angle with a grinder or file. Also the short end of the coupler connects to the driveshaft and the longer end connects to the pump.





WHEEL WELL TANK AXLE BRACE

The left axle brace supports the wheel well hydraulic tank. To attach the axle brace to the axle on the left side the existing fuel tank bracket(pictured below) will have to be removed. After the weight of the tractor is supported on its axle, place a block under the fuel tank to support it in place as you remove the hardware from the fuel tank bracket. Keep the hardware to use with the axle brace. The Tiger left side axle brace will attach where the bracket was used. Use the existing hardware to attach the axle brace to the axle and fuel tank.



WHEEL WELL HYDRAULIC TANK

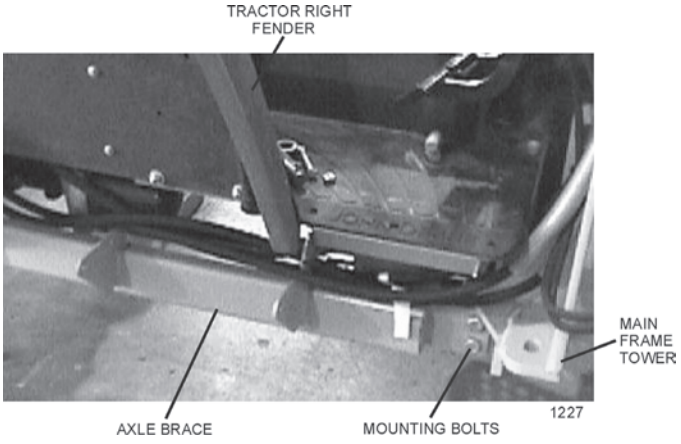
The tank frame is located on the left side axle brace. After the axle brace is in place, use a lift to get the tank into place. Do not attach any fittings to the tank before placing the tank into the support frame. Secure the tank in the mounting bracket with the hardware, both existing and provided.

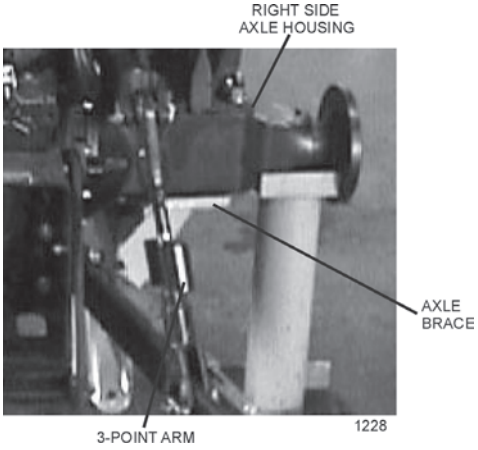
Install all fittings and tubes into tank and tank filter as shown in parts section illustration. Insert tank sight glass into the side of the tank.

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 is built into the tank cap. This will be installed after tank is filled.

AXLE BRACE

Position the right axle brace under the tractor right hand side. Raise the brace up to the matching mounting holes in the main fame and rear axle housing. Note the right side brace is installed on outside edge of the main frame and the left side brace is installed on the inside edge of the main frame. Pictures below show right side brace installation. Install the axle plate with capscrews, washers and nuts as shown in the main frame parts section. Apply Loc-Tite to the threads and torque to the values noted in the torque chart located in the maintenance section of this manual.





HYDRAULIC TANK INSTALLATION

Attach the tank mount to the main frame with the hardware shown in the parts section.

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

Place the tank in the mounting bracket on the main fame as shown in the parts section. Secure the tank in the mounting bracket with the tank strap and nylock nuts.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. Locate the tank breather and reducer bushing (bushing may be already installed in the tank along with many of the for-mentioned parts). These will be installed after tank is filled.

POLYCARBONATE SAFETY WINDOW

NOTE: In most cases this should be done before mounting the main frame. Carefully remove the existing right rear cab window, to be replaced with the matching polycarbonate window provided.

Clean all of the surfaces around the window opening, once the rear window is 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. Set the safety screen assembly on the hinges and attach the door to the tractor frame. Install the brackes 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.

Installing a boom mower requires that all right side windows be replaced or shielded by a lexan safety window.

MAIN FRAME MOUNTING

It may be necessary to raise the front of the tractor slightly to allow the main frame to be slid under the tractor. With an overhead hoist or floor jack, slide the frame under the tractor from the right hand side. Raise the frame up to the correctly matching mounting holes. Install the capscrews and all other hardware as shown in the main frame parts section. Remove the capscrews one at a time and apply a Loc-Tite to the threads. Reinsert the capscrews and tighten / torque to the values noted in the torque chart located in the maintenance section of this manual.

VALVE MOUNTING

Attach the rear valve mounting bracket to the fender of the tractor by removing the two rear bolts on diesel tank and the two rear bolts of the tank on the opposite fender. 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 on 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.**

SWITCH BOX WIRING

Refer to the parts section for the Husco wiring schematic to hook up the switch box. Cover all wires with plastic wire wrap provided. Route the green wires along switch box 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.

Remove the panel under the steering wheel 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 switch box 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.

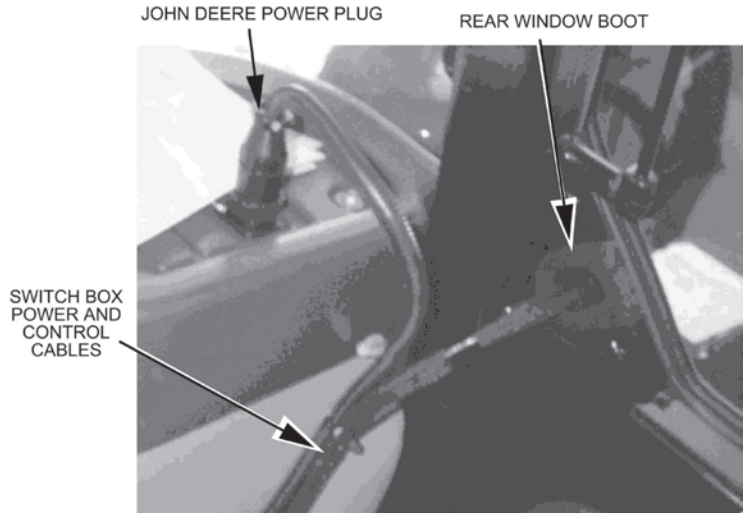
NOTE: The RED wire from the JD power plug should not be used because it is ALWAYS "Hot". +12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THE RED WIRE MUST BE FUSED AT THE SOURCE LOCATION WITH A CLOSED END CONNECTOR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

Connect the red wire from the switch box to the orange wire from the JD power plug. Connect the black wire from the switch box 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 cross hair 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.



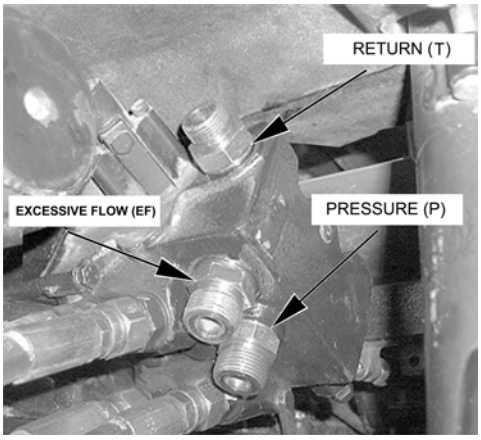
NOTE: When cutting or drilling a hole, be sure not to damage existing wires running behind panels.

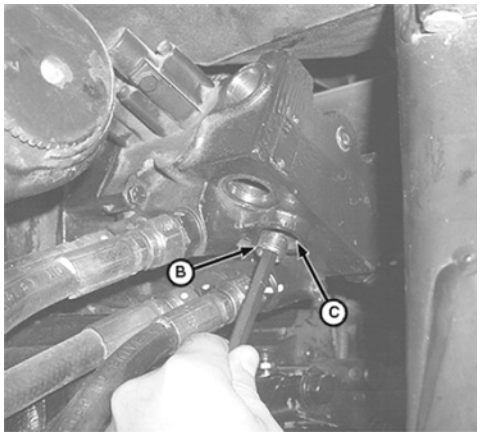
HUSCO VALVE PLUMBING (SCV ONLY UNITS)

The tractor ports used are on the selective control valve (SCV). The SCV is located between the right arm of the three point hitch and the axle. The pressure port is located the closest to the axle. The excessive flow port is right next to the pressure port. And the return port is located on the adjacent face. Refer to the image below as a guide.

NOTE: To use the pressure port a 3/8 NPT pipe plug(B) must be inserted into the port(C) - (refer to the illustration below and the Parts Section). Remove the plugs covering the ports of the SCV ports. After the plug is removed, use a wrench to tighten the plug(B) securely.

SELECTIVE CONTROL VALVE (SCV)



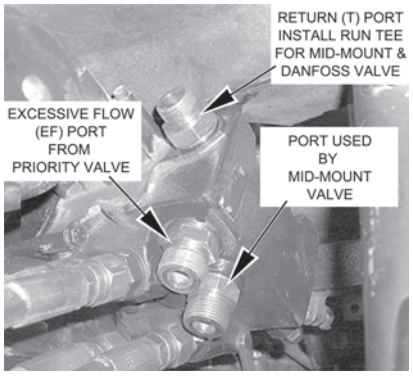


When the pressure port is active, install the adapters in their ports. The hose from the pressure port goes to the “P” port of the husco valve. Next the return hose from the lift valve goes back to the “T” port on the selective control valve. Plumb the power beyond hose from the “PB” port on the husco valve to the “EF” port on the SCV. See the parts pages for placement and the hardware used.

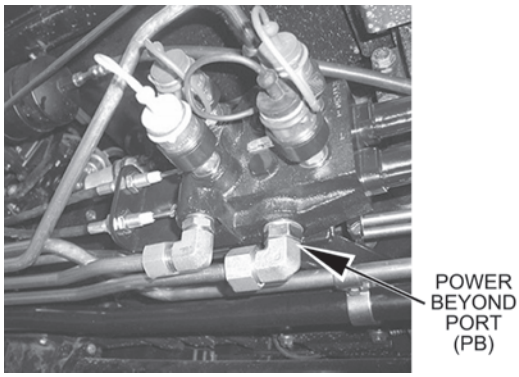
HUSCO VALVE PLUMBING (WITH MID-MOUNT VALVE)

The tractor ports used are on the selective control valve (SCV) and the Mid-Mount valve. The SCV is located between the right arm of the three point hitch and the axle. The Mid-Mount valve is located under the right front corner of the cab. The power beyond port is located on the bottom of the Mid-Mount valve towards the front. The excessive flow port is located on the underside of the SCV. The return port is accessed through the end of a run tee located on the SCV. See the husco lift valve page in the parts section for hardware and location of parts. Refer to the image below as a guide.

SCV



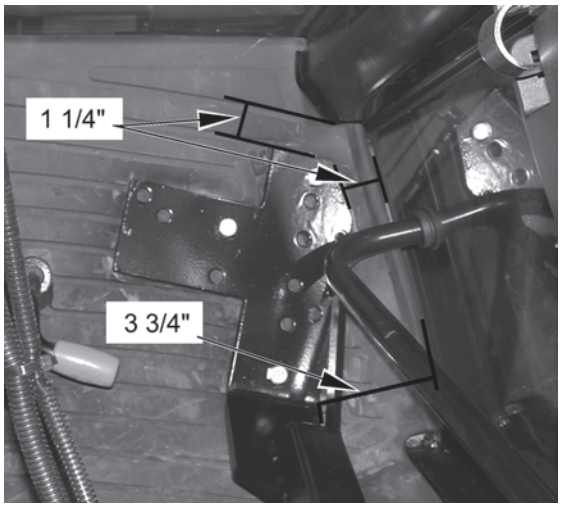
MID-MOUNT VALVE

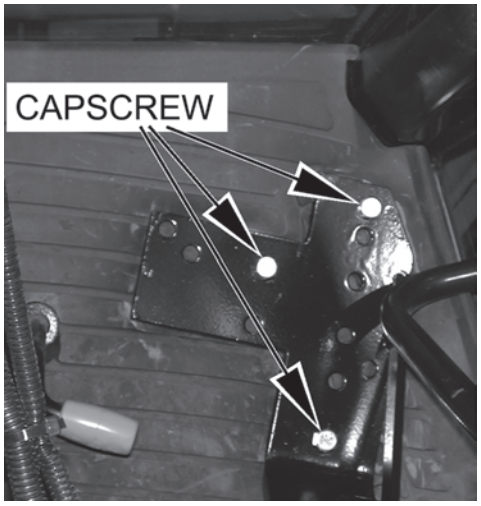


The power beyond port uses the existing adapter for the pressure hose. That hose is routed to the “P” port of the husco valve. The return hose from the lift valve is connected to the closest end on the run tee of the “T” port on the selective control valve. Plumb the power beyond hose from the “PB” port on the husco valve to the “EF” port on the SCV. Refer to the Parts Section for hardware used.

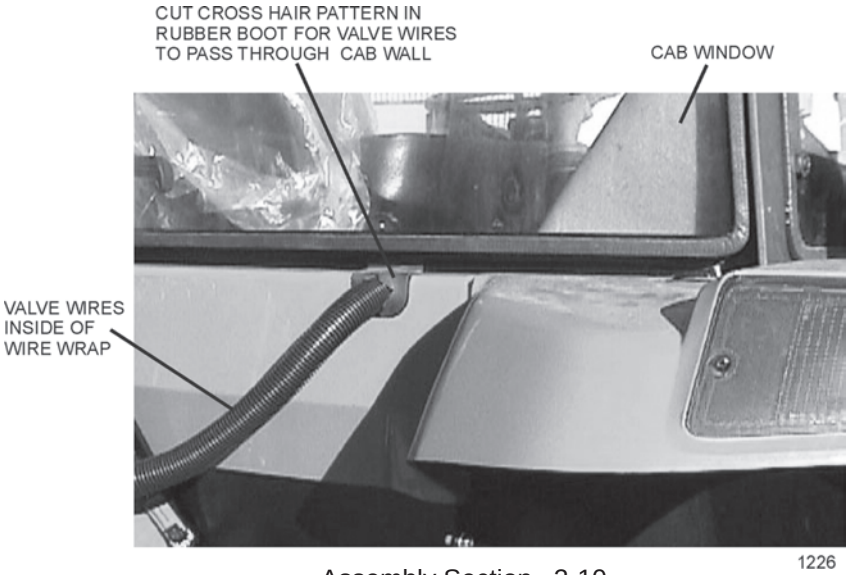
CABLE CONTROL LEVER STAND (SCV ONLY UNITS)

Place the cable control bracket on the floor so that the bracket is 1-1/4” from the right corner post of the cab and the edge of the door opening. Also the outer rear corner of the bracket is 3 3/4” from the edge of the door. See image below. Be sure that the location of the stand will allow the operation of all controll 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.



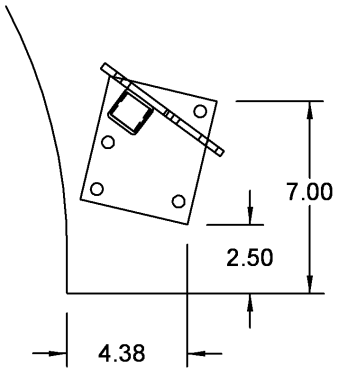


The rubber boot under the rear window can be cut in a cross hair pattern and if necessary the bottom cut through to allow it to slip over the cables and back into position. These cables will be routed to the lift valve mounted on the valve mounting plate, and should not have any sharp bends or kinks 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.

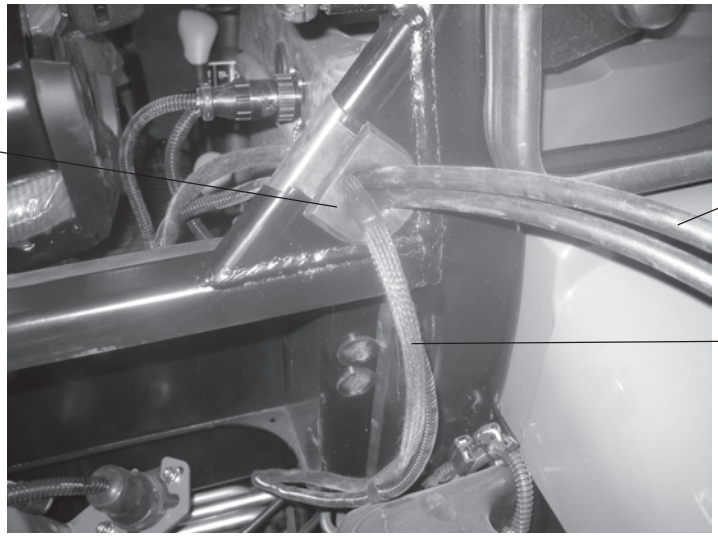


CABLE CONTROL LEVER STAND (MID-MOUNT UNITS)

Place the cable control bracket on the floor so that the bracket is 2-1/2" from the side edge of the door, and 4-3/8" in front of the rear edge of the door. See images 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. Before drilling double check location of the stand for proper placement of holes. Make sure that all cables and wires are clear of the area before drilling holes to mount the stand. Drill 3 holes to match control bracket as shown below and secure with capscrews and nylock nuts noted in parts section.



The rubber boot in the corner of the rear window can be cut in a cross hair 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 or similar product 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.



WINDOW ROUTING

HOSE AND CABLE ROUTING

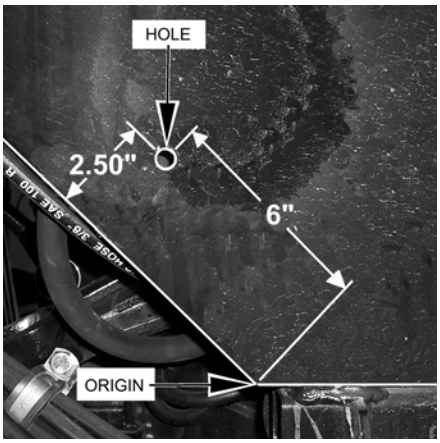
Attach two clamps to the right rear wheel well for proper hose/cable routing. Drill one hole for each clamp. Use the lower rear corner of the wheel well as an origin for measuring. The holes should be 10mm or 3/8" reamed to accept 3/8" hardware.

Measure along the back edge of the wheel well 6" from the origin. Use a square to measure 2 ½" up, from the last mark. Refer to the image below to see the first hole.

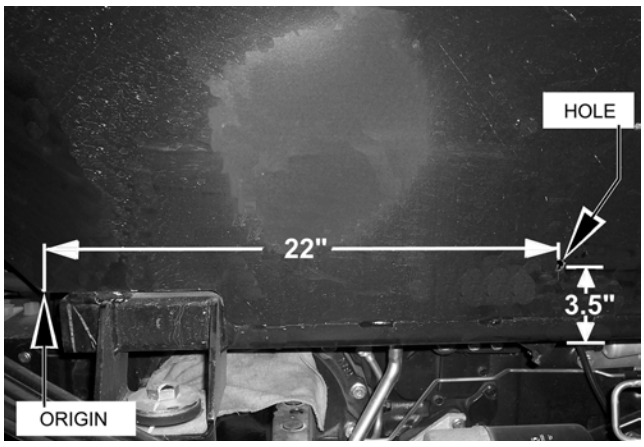
The second hole should run parallel to the bottom edge of the wheel well. Mark the hole 22" from the origin and 3 ½" from the bottom edge. Use the images below for reference.

NOTE: DO NOT CUT INTO TUBES / HOSES / WIRES WHEN DRILLING THROUGH METAL OR PLASTIC!

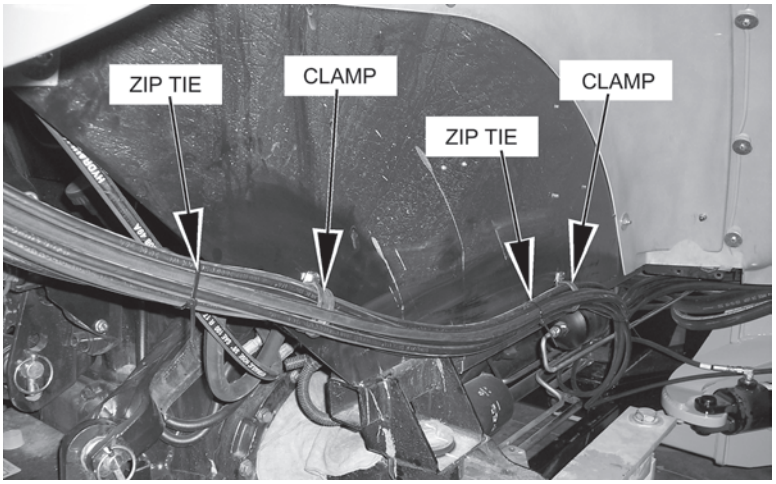
FIRST HOLE



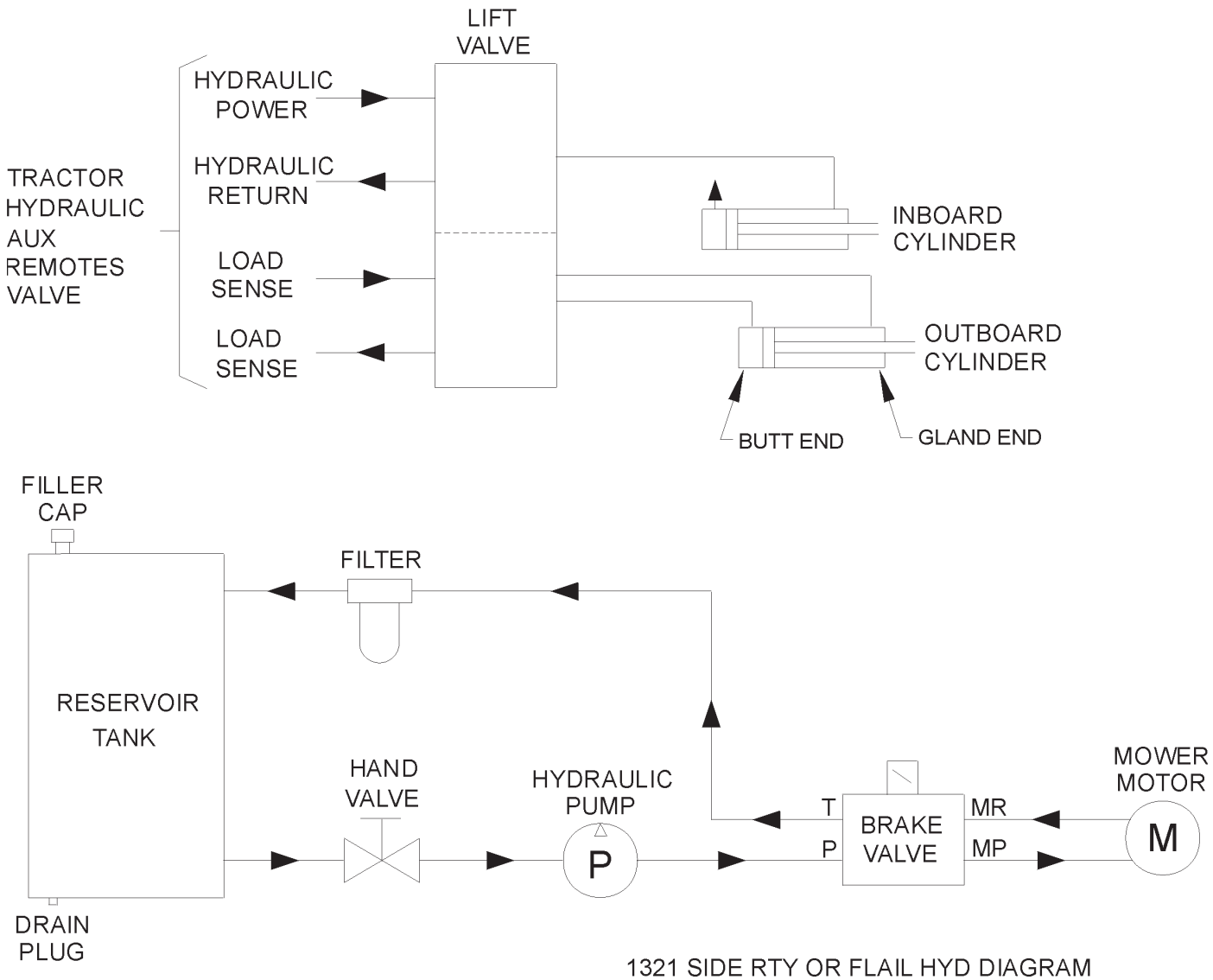
SECOND HOLE



Place as many hoses in the clamp that 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 spit hose sections and fasten with hose clamps or zip ties as needed.



SIDE ROTARY OR FLAIL HYDRAULIC DIAGRAM



1321 SIDE RTY OR FLAIL HYD DIAGRAM

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the main boom and secondary boom with the yellow hose cover, secure with black string 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 clear hose wrap. Cover the valve, valve fittings with the yellow hose cover and secure with black string provided.

ASSEMBLY

FRONT PUMP MOUNTING

Install the pump mounting bracket on the front of the tractor with cap-screws and lock-washers as shown in the parts section illustration. DO NOT tighten fasteners at this time.

Thread the pump drive shaft into the crankshaft adapter.

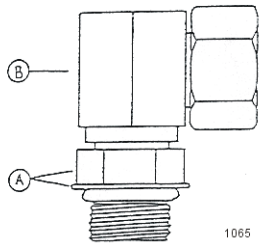
Slide the splined drive shaft coupler onto the pump drive shaft. Install the pump onto the mounting bracket. NOTE: the pump is offset to one direction, the pump should be installed with the offset side on top. Install hardware for securing pump to the pump mount, DO NOT tighten.

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 tread locking agent. Tighten these bolts in succession, again checking for free play in the drive shaft. After all bolts are torqued, the end play on the drive shaft 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.

INSTALLING O-RING FITTINGS

Installing straight, 45 degree and 90 degree O-ring fittings requires that the O-ring, washer and nut (A) be up against the swivel body (B). Insert the swivel and turn in until the swivel is pointed in the right 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.



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.

FILLING HYDRAULIC RESERVOIR

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

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

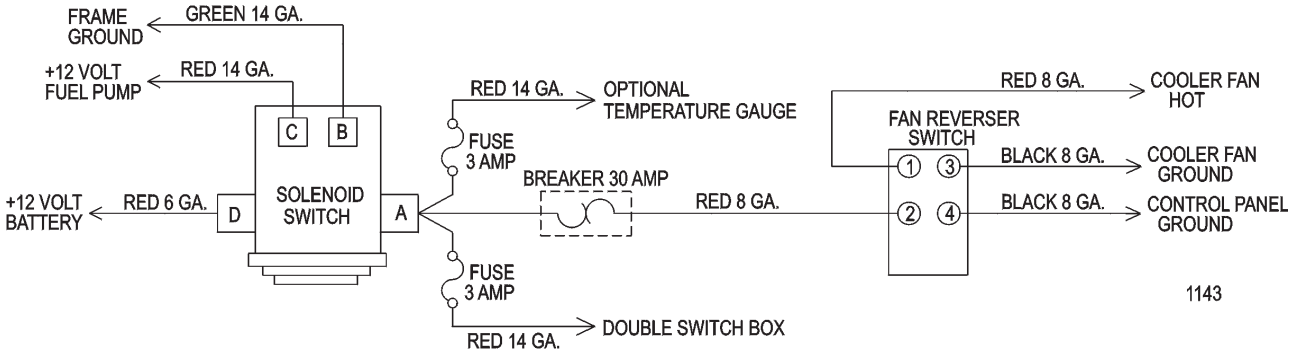
MOTOR SOLENOID VALVE MOUNTING

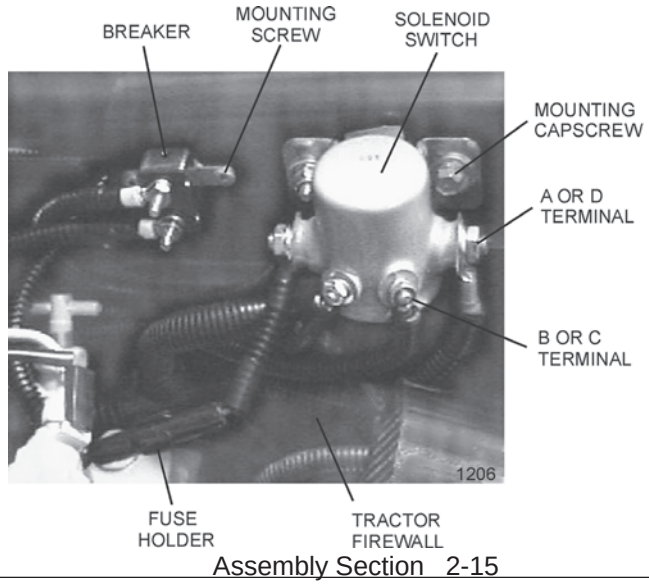
Install a motor solenoid valve to the bracket on main frame with the capscrews, star lockwasher flatwasher, lockwashers and hex nuts as shown in the parts section. Be sure that the pump and tank oil ports are pointing down. Be sure that the star and regular lockwashers are not on the same capscrew. Ground one of the red solenoid wires to the mounting bolts with the star lockwasher at this time.

CONTINUOUS DUTY SOLENOID SWITCH (OPTIONAL)

Mount the solenoid switch, drill holes to match, and 30 AMP breaker mounting tab, mount in dry and well protected area. Secure with 3/8" x 1" capscrews, lockwashers, and hex nuts.

A.) RED 6 GA. wire from terminal (D) to +12 volt battery post on starter solenoid.
B.) RED 14 GA. wire from terminal (C) to +12 terminal on fuel pump.
C.) GREEN 14 GA. wire from terminal (B) to negative ground.
D.) RED 8 GA. wire from terminal (A) to 30 AMP breaker.
E.) RED 14 GA. wire from terminal (A) to double switch box.
F.) RED 14 GA. wire from terminal (A) to temperature gauge. (optional)
G.) RED 8 GA. wire from breaker to reverser switch terminal (2).
H) RED 8 GA. wire from terminal (1) to +12 volt terminal on cooler fan.
I). BLACK 8 GA. wire from terminal (3) to ground on cooler fan.
J.) BLACK 8 GA. wire form terminal (4) to control panel ground.





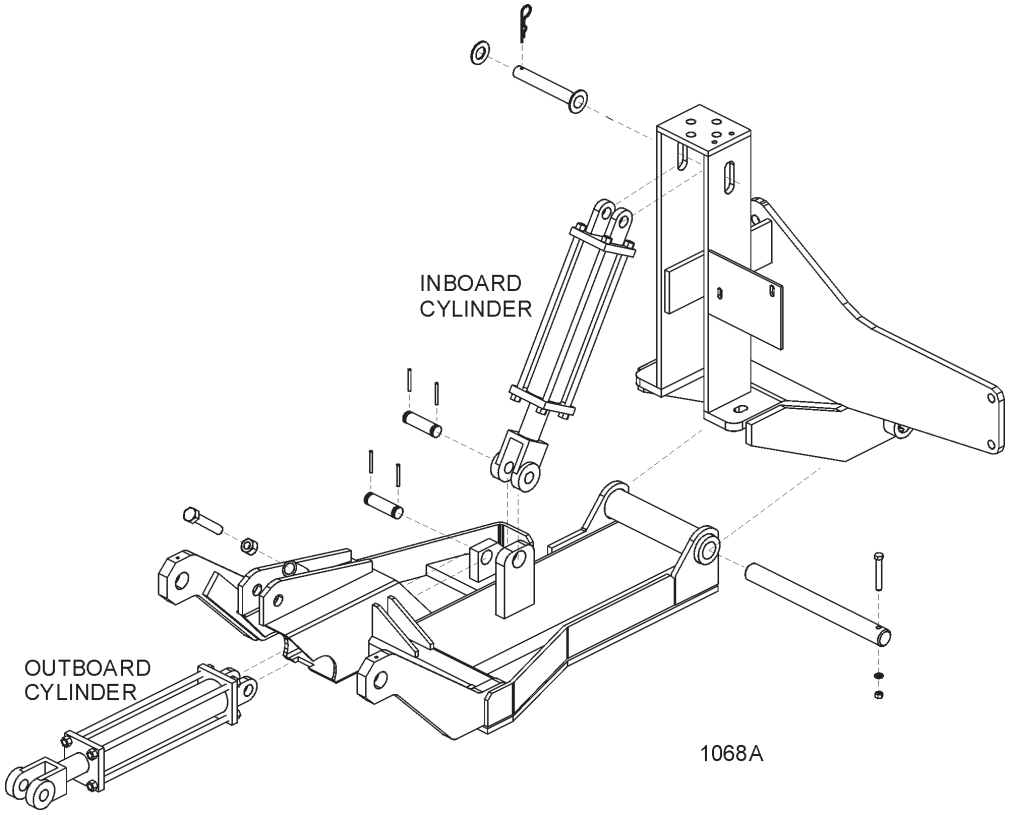
COMBO LIFT DRAFT BEAM INSTALLATION

Install ½" O-ring breather into butt port of inboard cylinder. Install fittings in the rod end of the cylinder according to the diagram in the commons section. These fittings should be positioned to face the butt end of the cylinder.

Next turn the clevis onto the rod of the cylinder until it is tight against the shoulder and lock into place with locking bolt on clevis.

The inboard cylinder can now be installed into the main frame mast with the pin, flat-washers and R-clips as shown below. Use teflon tape on all fitting and hose connections.

Install all fittings in the outboard cylinder and adjust to point towards the butt end of the cylinder. Attach the hoses as specified in the parts book. Slide the cylinder into the draft beam from the outside of the draft beam and attach cylinder to the draft beam with clevis pin and rollpins.



DRAFT BEAM MOUNTING

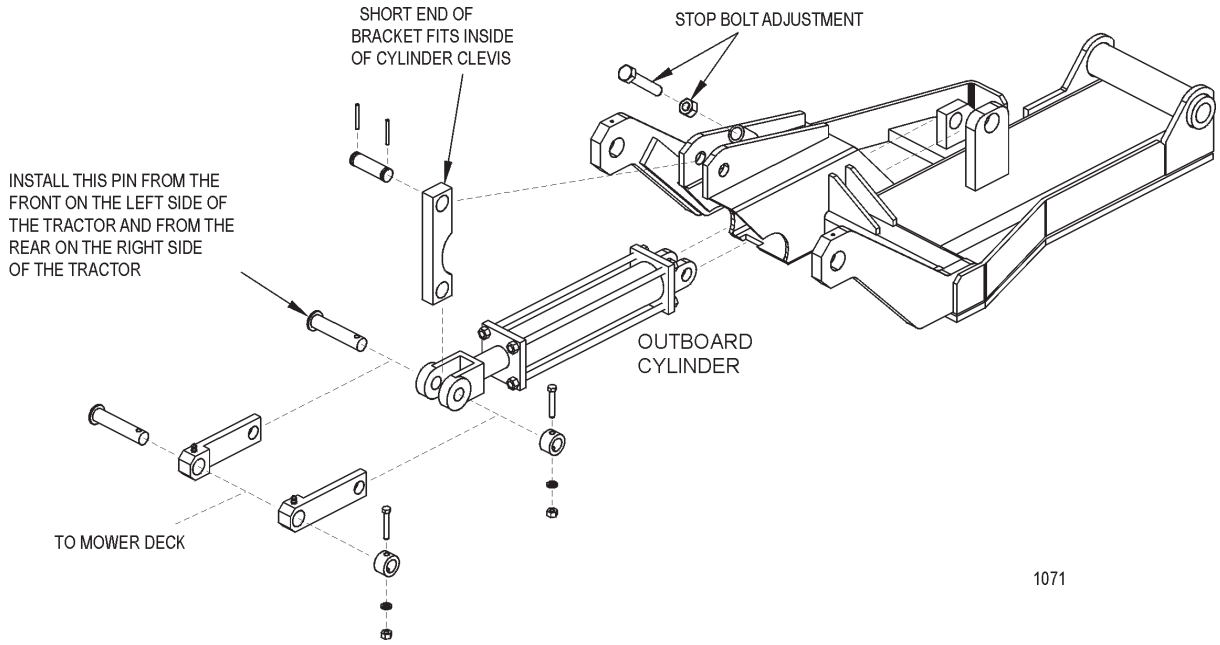
Pull the inboard cylinder piston rod down to the extreme extended position. Slide the draft beam under the cylinder, and align clevis hole with draft beam hole nearest to the tractor. Install pin and secure with rollplins.

Using inboard cylinder as a pivot point, slide draft beam under tractor and install draft beam pin. Align hole in draft beam pin with holes in main frame boss and install cap-screw, lock-washer and hex nut.

DECK MOUNTING

Check that all grease zerks have been installed in the draft beams pivot arm, left linkage arm, right linkage arm, and cylinder mounting ears.

Using a clevis pin and roll pins, connect the pivot arm to clevis on draft beam. NOTE: Make sure the longer distance between the cutout and the end of the pivot arm is closest to the draft beam pivot ears on the center tube as shown in the diagram below. Also make sure the cutout on the pivot arm faces into tube of draft beam.



Slide other end of pivot arm with short distance between the cut-out and the end of the pivot arm, into the cylinder clevis. Next, line up the holes of the left and right lift linkage arms outside of the cylinder clevis holes. Connect with linkage pin, shims (as required), boss, cap-screw, lock-washer and hex nut as shown.

To connect the bonnet to the draft beam, slide the extension arms of the draft beam between the mounting ears on the inner end of the bonnet. Line up the holes and secure with swivel pin, cap-screw, lock-washer, and hex nut (both sides). See parts book illustration.

Next, slide the left and right linkage arms up to the slotted ear on the side of the deck. Secure with linkage pin, shims, boss, cap-screw, lock-washer and hex nut. See illustration in parts section.

LIFT CONTROL FEEDLINES

Hose lengths will vary between tractor applications such as cab and non-cab units. See the parts section that pertains to your tractor for hose applications.

Install a hose from the bottom or inner valve port (in fender well for cab units, on stand for non-cab units) to the restrictor on the inboard cylinder gland.

Install a hose form the upper or outer valve port to the restrictor on the outboard cylinder butt. Use teflon tape on all fitting and hose connections.

TRAVEL LOCK MOUNTING

Install the travel lock bracket with pin and clip on the draft beam. Slide the draft beam and align the travel lock bracket hole with the mounting hole on the main frame. Install the capscrew, lockwasher and hex nut as shown in the picture.

Raise the deck/flail to it's upright position (Deck ear touches to stop bolt as shown in the picture). Drill a 13/16" hole to the deck/flail ear through the draft beam as shown below. Insert the supplied pin and clip through the hole.

DECK / MOTOR FEEDLINE

Install the 1” hose with the 90 degree flange on the front side of the motor to the inside upper oil port of the solenoid valve. Secure to motor with flange kit, and install swivel fittings on the other end. Install the other 1” hose with the 60 degree flange on the back side of the motor to the inside lower oil port of the solenoid valve.

Install split hoses around hydraulic hoses where they contact sharp edges, or any other edges that may rub hoses.

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the maintenance section. Re-check all fittings for tightness and be sure teflon tape has been used at all connections.

Fill hydraulic tank with fluid as recommended in the maintenance section. **BE SURE TO OPEN THE BALL VALVES.** Start the tractor and operate the inboard cylinder through the entire stroke and the outboard cylinder through the bottom ¾ stroke repeatedly to clear the lines of air. **DO NOT run outboard cylinder out to full stroke until stop bolt has been adjusted!**

Check for oil leaks at all fittings and connections using a piece of paper or cardboard. If a leak is found, you must shut down the tractor and set the cutter head 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. **DO NOT USE HANDS TO CHECK FOR FLUID LEAKS!**

Raise the three point hitch and check the tractor internal hydraulics, fill to proper level if needed.

STOP BOLT ADJUSTMENT

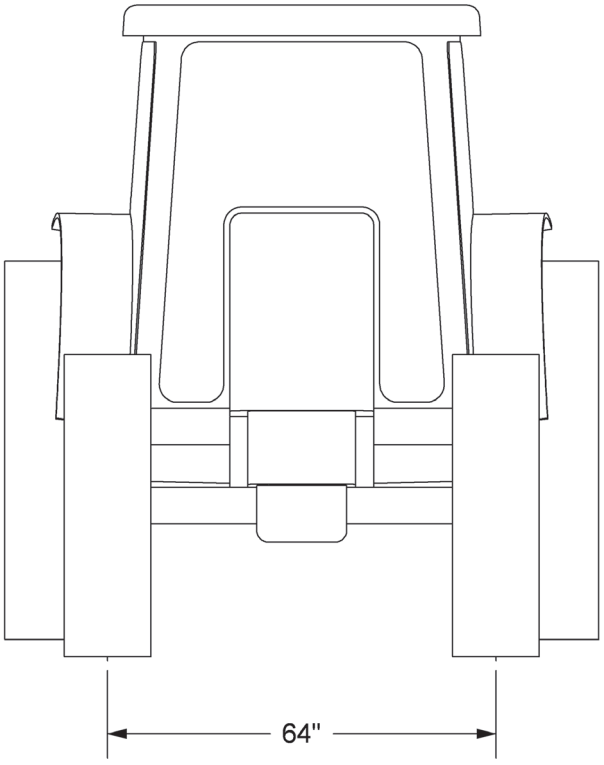
Extend the outboard cylinder all the way out. Adjust the stop adjustment bolt (located on the top of the draft beam) out until it is up against the bonnet. Lock the bolt down with the ¾” hex nut.

NOTE: When the outboard cylinder is fully extended, the bonnet or deck should either be up against the stop or if travel locks are installed, it should be up against the travel lock. It may be necessary to use either external or internal slugs on the cylinder to get the correct stroke. If the cutter head is against the stop and the cylinder has stoke remaining, serious damage will occur.

Proceed to final preparation for operation instructions on the next page.

4WD FRONT TIRE ADJUSTMENT

In order to prevent interference with mounted equipment, the front wheels on a 4WD 5101E tractor will have to be adjusted to approximately 64” center to center distance as shown below. Please refer to your John Deere Maintenance Manual to see the correct rim and tire configuration to achieve this. Double check the wheel spacing after adjustment by oscillating and turning the tires fully to check for any interference.



FINAL PREPARATION FOR OPERATION

Place operators 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 section of this book. The decals are to remain in good condition as a reminder to the operator, and should be replaced if damaged.

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

WARNING!

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

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

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

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

MOWER TESTING

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

If any parts of this assembly section, or any other section of this manual are not clearly understood you must contact your dealer or the address on the front of this manual for assistance!

OPERATION SECTION

OPERATION

Safety is of primary importance to the owner / operator and to the manufacturer. 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. Many of the messages will be repeated throughout the manual. The owner / operator / dealer should know these Safety Messages before assembly and be aware of the hazards of operating this mower during assembly, use, and maintenance.

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

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

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

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

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

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

Before any operation of tractor and mower, the user should read and understand the safety and operating instructions for both the tractor and the mower. The user should also be familiar with the location and functions of the units instruments and controls. Being familiar with the machine and it's controls will increase efficiency and reduce possibility of serious injury or damage to the unit. The operator should work slowly and carefully until he feels comfortable with the machine. Speed and skill will be attained much easier if the necessary time is spent to familiarize yourself with the machine and its operations.

Since tractor makes and models vary, we recommend reading and following the operators manual provided by the manufacturer pertaining to your particular unit.

OPERATION

STARTING TRACTOR AND MOWER

Check the operators manual received from the tractor manufacturer, for their recommendation and procedures pertaining to your particular make and model.

WARNING!

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

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

WARNING!

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

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

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

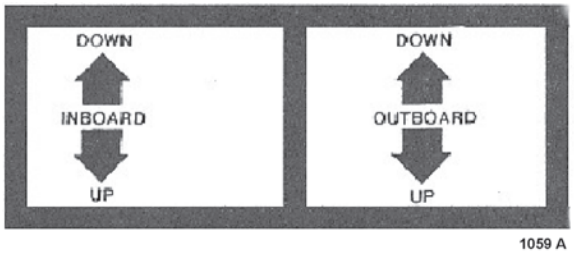
The Mower Control switch turns the mower "ON" and "OFF". This switch is to be in the "OFF" position to start the tractor. The tractor will not start with the switch in the "ON" position.

WARNING!

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

CONTROL LOCATION AND FUNCTIONS

The side mower height is controlled with a two or three spool valve and is coordinated as shown below. The optional three spool valve allows for the operation of a rear rotary mower or side ditcher. If the unit is equipped with a three spool valve, do not operate the third spool handle unless a rear rotary or ditcher is mounted.



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The rear mower height is controlled with the 3-point hitch control lever. Follow the instructions for this control is the tractor operators manual. The tilt of the rear mower is controlled with the third spool if the lift valve and is coordinated as shown above.

The side and rear mower positions may optionally be controlled with the tractors remote hydraulic connections or a combination of lift valve and remote hydraulics. If so, determine which position of the side or rear mower is to be controlled be each remote lever.

The side mower ON / OFF switch is located in a switch box mounted to the valve stand or cable controls for non-cab and cab units respectively. If operating a rear mower, the ON / OFF switch is located in the switch box with a side mower switch.

This machine may be equipped with an auxiliary oil temperature gauge, an amp gauge or oil pressure gauge. If oil temperature reaches 200 degrees Fahrenheit, stop mowers and see trouble shooting section for possible causes. Keep an eye on all gauges for indication of problems.

MOWER OPERATION

WARNING!

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

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

Once on location, lower the mower deck slightly above the material to be cut, so the mower does not have to start under a load. Bring the R.P.M. of the tractor up to 1200 and engage the side mower. If a rear mower is being used, allow the R.P.M. to return to 1200 before engaging the rear mower.

The rotary mower deck should always be carried rather than dragged on the skid shoes when mowing on the ground. Dragging the rotary mower heads causes an extreme side load on the tractor resulting in premature tire wear. It also causes excessive horsepower consumption and drastically decreases blade life. Dragging the rear mower can also cause damage to the road. Once the necessary skill is attained at controlling the height and position of the side rotary mower, it will be easy to carry the mower head(s) and do a proficient job of cutting.

OPERATION

When cutting tall shrubs or small trees (maximum recommended size of material to be cut is 2" diameter) begin each pass at the top of the material and work down with each consecutive pass. Use a low speed to allow the cutting blades time to mulch as well as cut the foliage. When the initial pass has been made, disengage the mower and return the mower to the travel position. Return to the starting point and make next pass, etc.

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

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

DO NOT use excessive force when positioning cutting head into heavy branches or small stumps (2" diameter). Damage to the unit may result. It is best to let the cutter head "eat away" slowly at heavy cutting jobs.

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

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

When encountering a very severe condition which causes the tractor to stall, disengage mower, start tractor, raise the mower from the cut. Shut tractor off and inspect the mower, blades and disk for damage before engaging mower again.

If the blades jam or stop, disengage the clutch and raise the head slightly or back the tractor up. Normally, this will clear the cutter head. If not, shut off the mower(s), raise the cutter heads, turn off the tractor and set the parking brake. After all motion stops completely, leave the tractor and clear the cutting heads manually.

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

TRANSPORTING MOWER

Transporting under the units own power:

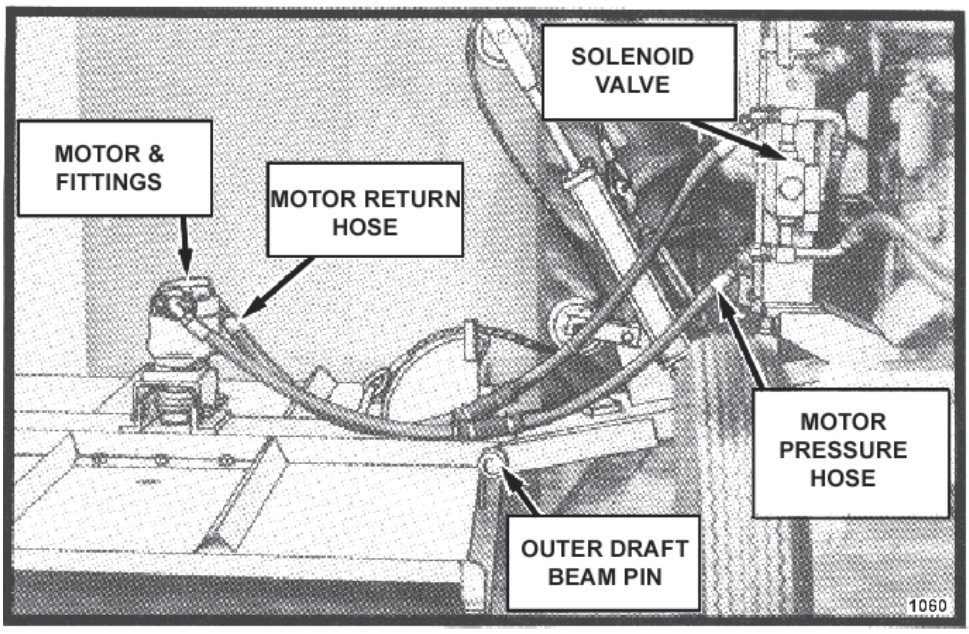
When transporting between job sites or between cutting passes, the following procedure should be followed: Shut off the power to the cutting head(s) and allow all motion to come to a complete stop. Raise the draft beam to it's highest position. Raise the side mower until the deck stops against the draft beam. Raise the rear mower with the 3-point hitch control lever. The unit is now in position for self transportation.

Transporting unit by flatbed trailer:

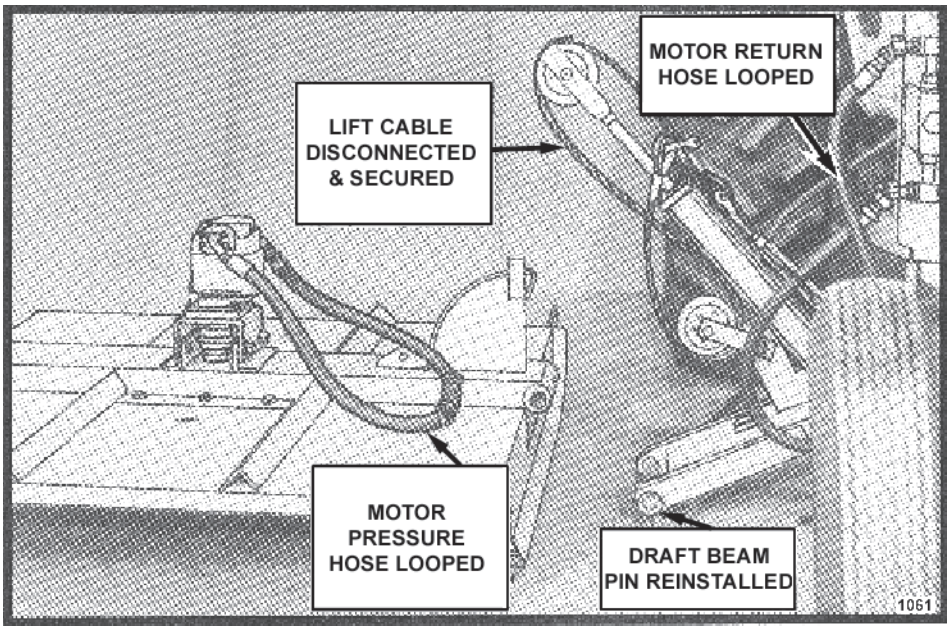
Most tractors with a side mounted mower head attached will be over legal transporting width (102" wide). For this reason, one of the following procedures must be followed.

1: Transporting with side mower attached: Use a loading dock or ramp to load tractor onto the trailer. Center the tractor with the mowers attached between the sides of the trailer. Make sure the draft beam and head are fully raised and secured. Lower the rear mower onto the trailer. Secure the tractor and rear mower to the trailer with chains. Obtain proper over-width permits and mark the vehicle and mower as over-width as required be law. Check the tractor operators manual for any tractor requirements to transport by flatbed trailer.

2: Transporting with side mower removed: Park the tractor and turn the engine off. Remove the key to avoid accidental starting. Close ball valves on the hydraulic reservoir. To avoid contaminating the hydraulic system, make sure all fittings on the side mower motor and solenoid control valve are clean. Disconnect the motor pressure hose at the solenoid valve and the motor return hose at the motor. See diagram below.



Next, switch the hose ends and reconnect to form two separate closed loops, see diagram below. Disconnect the lift cable from the head and secure the loose end back onto the cable with the cable clevis. Remove the keeper bolt and draft beam outer pivot pin. Separate the mower head from the tractor. Now reinstall the pivot pin and keeper bolts into the draft beam to prevent loss. **OPEN THE BALL VALVES ON THE HYDRAULIC RESERVOIR BEFORE STARTING TRACTOR AGAIN!** Serious damage will be caused if tractor is started with the ball valves closed.



Use a loading dock or ramps to load the tractor onto the trailer, centering the tractor between the sides of the trailer. Make sure the tractor (and rear mower) and trailer are within legal transporting width. Lower the rear mower onto the trailer and set the loose hide mower on the trailer. Secure the tractor and mowers to the trailer with chains. Check the tractor operators manual for any requirements to transport be flatbed trailer. Reverse this procedure to unload and remount the mowers after transporting. Be sure all pins are secure, all connections are tight and any lost fluid is replaced before using mowers. Use teflon tape when connecting all fittings.

CAUTION!

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

INSPECTION SHEETS

Rotary Mower PRE-OPERATION Inspection

Tractor ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Mower head is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the Canister on the mower		
All Safety Decals are in place and legible		
The Mounting frame bolts are in place and tight		
There are no cracks in Draftbeam or Yolk		
The Draftbeam/Yolk connection bolts & pins are tight		
There are no cracks or holes in mower deck		
The Hydraulic motor mounting bolts are tight		
The mower head spindle housing is tight and lubricated		
There mower deck is clear of cut grass and debris		
The Skid shoes are in good condition & tight		
Chain Guards/Deflectors are in place & in good condition		
Blade carrier retaining nut is tight		
Blades are not chipped, cracked or bent		
Blade bolts are tight		
Transport locks are in good condition		
There are no leaking or damaged hoses		
There is no evidence of Hydraulic leaks		
The Hydraulic Oil level is full		
The Hydraulic Cylinders pins are tight		
The Hydraulic Pump hose connections are tight		
The Hydraulic Valve hose connections are tight		
The Hydraulic Valve controls function properly		
Wheel lug nuts are tight		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

TRACTOR PRE-OPERATION Inspection

Tractor ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Mower head is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Flashing lights function properly		
The SMV Sign is clean and visible		
The Tires are in good condition with proper pressure		
The Wheel Lug bolts are tight		
The tractor Brakes are in good condition		
The Steering linkage is in good condition		
There are no visible Oil Leaks		
The Hydraulic controls function properly		
The ROPS or ROPS Cab is in good condition		
The Seatbelt is in place and in good condition		
The 3-Point Hitch is in good condition		
The Drawbar pins are securely in place		
The PTO Master Shield is in place		
The Engine Oil level is full		
The Brake Fluid level is full		
The Power Steering Fluid Level is full		
The Fuel level is adequate		
The Engine Coolant Fluid level is full		
The Radiator is free of debris		
The Air filter is in good condition		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

FRONT END LOADER PRE-OPERATION Inspection

Mower ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Loader is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Operator's Manual is in the Canister on the mower		
All Safety Decals are in place and legible		
The Mounting frame bolts are in place and tight		
There are no cracks in Draftbeam or Yolk		
The Draftbeam/Yolk connection bolts & pins are tight		
There are no cracks or holes in mower deck		
The Hydraulic motor mounting bolts are tight		
The mower head spindle housing is tight and lubricated		
There mower deck is clear of cut grass and debris		
The Skid shoes are in good condition & tight		
Chain Guards/Deflectors are in place & in good condition		
Blade carrier retaining nut is tight		
Blades are not chipped, cracked or bent		
Blade bolts are tight		
Transport locks are in good condition		
There are no leaking or damaged hoses		
There is no evidence of Hydraulic leaks		
The Hydraulic Oil level is full		
The Hydraulic Cylinders pins are tight		
The Hydraulic Pump hose connections are tight		
The Hydraulic Valve hose connections are tight		
The Hydraulic Valve controls function properly		
Wheel lug nuts are tight		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or FRONT END LOADER

TRACTOR PRE-OPERATION Inspection

Tractor ID#_____ Make_____

Date:_____ Shift_____

WARNING!

Before conducting the inspection, make sure the Tractor engine is off, all rotation has stop and the tractor is in the Park with the parking brake engaged. The Loader is resting on the ground (or is securely blocked up and supported) and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not O.K.
The Flashing lights function properly		
The SMV Sign is clean and visible		
The Tires are in good condition with proper pressure		
The Wheel Lug bolts are tight		
The Tractor Brakes are in good condition		
The Steering linkage is in good condition		
There are no visible Oil Leaks		
The Hydraulic controls function properly		
The ROPS or ROPS Cab is in good condition		
The Seatbelt is in place and in good condition		
The PTO Master Shield is in place		
The Engine Oil level is full		
The Brake Fluid level is full		
The Power Steering Fluid Level is full		
The Fuel level is adequate		
The Engine Coolant Fluid level is full		
The Radiator is free of debris		
The Air filter is in good condition		

Operators Signature:_____

DO NOT OPERATE an UNSAFE TRACTOR or FRONT END LOADER

MAINTENANCE SECTION

MAINTENANCE

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

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

MAINTENANCE PRECAUTIONS

Be sure end of grease gun and zerks are clean before using. Debris injected into bearings, etc. with grease will cause immediate damage.

DO NOT use a power grease gun to lubricate bearings. These require very small and exact amounts of lubrication. Refer to the detailed maintenance section for specific lubrication instructions. Do Not over-grease bearings.

Lexan windows should be washed with mild soap or detergent and luke warm water, using a soft clean sponge or **soft cloth**. DO NOT use abrasive or alkaline cleaners or metal scrapers on lexan windows!

Be alert to maintenance indicators such as the in-tank filter pressure gauge, hydraulic reservoir sight gauge, etc. Take the required action to correct any problems immediately.

Release of energy from pressurized systems may cause inadvertent actuation of cylinders, or sudden release of compressed springs. Before disconnecting any hoses relieve pressure by shutting tractor off, setting cutter on ground and actuating lift valve handles.

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 pressure is relieved whenever disconnecting lines. 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. Thereafter the filter should be replaced every 500 hours, or yearly, which ever comes first.

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

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.

This symbol indicates a point that needs to be greased at an interval noted in the section below. 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 maint. section
Pump Drive Shaft	Check and Lube	Insure drive shaft end play
Crankshaft Adapter	Check rubber grommets	Replace grommets if damaged or missing
Pivot Points	Lubricate	Inject grease until it appears at ends
Hydraulic Fittings	Check for leaks	Tighten when needed. Do Not use hands to check for leaks, see maintenance precautions
Knives	Check	Inspect for missing or damaged knives, change or sharpen as needed
Spindle mounting bolts (spindle to deck)	Check	3/4" x 2" torque to 331 ft. lbs.
Knife mounting bolts (knife to disk)	Check	Pre-lubricate threads, then torque to 800 ft.lbs
Disk mounting bolts (disk to spindle)	Check	5/8" x 1-3/4" bolt to torque 204 dry or 184 oiled ft. lbs.
Belts	Check / Adjust	Check if broken, tighten as required
Main Frame and Deck	Check	Retorque bolts to torque specifications in this section
Hydraulic Fluid Level	Check	Add if required per fluid recommendations

MAINTENANCE

WEEKLY OR EVERY 50 HOURS

ITEM	SERVICE	COMMENTS
In Tank Hyd. Fluid Filter **(10 micron filter)**	Change	Change after first 50 hours only, then every 500 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

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

Spindle Grease	Change		
Motor to Spindle Spline	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		

TROUBLE SHOOTING

SYMPTOMS	CAUSE	REMEDY
Vibration	1. Loose bolts	1. Check all bolts and tighten to torque specs. in this section
	2. Cutter assembly	2a. Check for damaged blades, disc. Unbalanced or cutter shaft. Replace if needed. 2b. Check for wire, rope, etc. entangled in cutter assembly
Mower will not lift	1. Hyd. Fluid low	1. Check and refill Hyd. Fluid.
	2. Leaks in line	2. Tighten or replace fittings and hoses
	3. Faulty relief valve	3. Check pressure in line. Line pressure in Control Valves should be at least 2500 P.S.I.
	4. Kinked or blocked	4. Clean or replace lines
	5. Faulty cylinder	5. Inspect, repair or replace cylinder

SYMPTOMS	CAUSE	REMEDY
Oil Temperature rises above 200 deg. F	1. Low oil level 2. Kinked/blocked hoses 3. Worn pump / motor	1. Bring oil to proper level 2. Inspect / Repair / Replace 3. Disable and repair
Mower will not start or run	1. Blown fuse 2. Ball valves closed 3. Low oil level 4. Line leak 5. Electronic solenoid faulty	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 contaminates and scratches. Clean parts or replace if scratched.
Motor runs but will not cut.	1. Belts 2. Tensioner	1. Inspect belts and pulleys. Replace belts and repair as needed. 2. Adjust tensioner nut until flat washer washer is flush with top of guide.
Motor turns slowly or not at all.	1. Contaminants restricting spool movement in valve body. 2. Suction lines obstructed 3. Low oil level	1. Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminates and scratches. Clean parts or replace if scratched. 2. Check for kinkes or obstruction in suction hose 3. Check Hyd. tank level and fill
Pump will not work	1. Excessive wear on internal parts	1. Disassemble and repair.

Motor will not work	1. Excessive wear on internal parts	1. Disassemble and repair.

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

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

TORQUE SPECIFICATIONS

Torque for Standard Fasteners

Nominal Dia.	threads per inch	Grade 2			Grade 5			Grade 8			Grade 9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain
(in.)		K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20
Unified Coarse Thread Series													
1/4	20	49 in-lbs	59 in-lbs	66 in-lbs	76 in-lbs	86 in-lbs	101 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs
5/16	18	101	122	135	157	178	209	221	251	295	259	294	346
3/8	16	15 ft-lbs	18 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	128	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	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.
Torque values calculated from formula T=KDF, where

K = 0.15 for "lubricated" conditions
K = 0.17 for zinc plated and dry conditions
K = 0.20 for plain and dry conditions

D = Nominal Diameter
F = Clamp Load

Torque-Tension Relationship for Metric Fasteners

Nominal Dia. (mm)	Pitch	Class 4.6			Class 8.8			Class 10.9			Class 12.9	
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque	
		Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry Plated	Dry plain	Lubed	Dry plain
		K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.17	K = 0.20	K = 0.15	K = 0.20
		(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)
3	0.5	0.28	0.32	0.38	0.73	0.82	0.97	1.0	1.2	1.4	1.2	1.6
3.5	0.6	0.44	0.50	0.59	1.1	1.3	1.5	1.6	1.9	2.2	1.9	2.5
4	0.7	0.66	0.74	0.87	1.7	1.9	2.3	2.4	2.7	3.2	2.8	3.8
5	0.8	1.3	1.5	1.8	3.4	3.9	4.5	4.9	5.5	6.5	5.7	7.6
6	1	2.3	2.6	3.0	5.8	6.6	7.7	8.3	9.4	11	9.7	13
6	1.25	2.1	2.3	2.7	5.3	6.0	7.0	7.6	8.6	10	8.8	12
7	1	3.8	4.3	5.0	9.7	11	13	14	16	19	16	22
8	1	5.9	6.6	7.8	15	17	20	22	24	29	25	34
8	1.25	5.5	6.2	7.3	14	16	19	20	23	27	24	31
10	1.25	11	13	15	29	33	39	42	48	56	49	66
10	1.5	11	12	14	28	32	37	40	45	53	47	62
12	1.25	21	23	28	53	60	71	76	86	101	89	119
12	1.5	20	22	26	51	58	68	73	82	97	85	113
12	1.75	19	21	25	49	55	65	70	79	93	81	108
14	1.25	26	29	34	66	75	89	95	108	127	111	148
14	1.5	28	32	37	72	82	96	103	117	138	121	161
14	2	30	34	40	78	88	104	111	126	148	130	173
16	1.5	50	57	67	129	146	171	184	208	245	215	287
16	2	47	53	62	121	137	161	173	196	230	202	269
18	1.5	73	82	97	187	212	249	268	303	357	313	417
18	2.5	65	73	86	167	189	222	239	270	318	279	372
20	2.5	91	104	122	236	267	314	337	382	449	394	525

Clamp load calculated as 75% of the proof load for specified bolts.
All torque values are listed in foot-pounds
Torque values calculated from formula T=KDF, where

K = 0.15 for "lubricated" conditions
K = 0.17 for zinc plated, dry conditions
K = 0.20 for plain and dry conditions

D = Nominal Diameter
F = Clamp Load

* These are intended to be general specifications. See tractor operators or service manual for exact specifications for your unit.

LUBRICATION RECOMMENDATIONS

Description	Application	General Specification	Recomended Mobil Lubricant
Tractor Hydraulics	Reservoir	JD-20C MF M1135,M1141 FNHM2C134D (FNH201)	Mobilfluid 424
Mower Hydraulics	Reservoir		
Cold Temperatures 0 F Start-Up		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 2 - 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 2 - ISO 320	Mobilgrease CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant part number 06540000	Mobilith SHC 220

POLYCARBONATE CARE & MAINTENANCE

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

CLEANING THE SUPERCOAT™ HARD-COAT

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

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

- Aqueous Solutions of Soaps and Detergents

Windex[1]	Top Job[2]	Joy[2]	Mr. Clean[2]
Fantastik[3]	Formula 409[4]	Sumalight D12	Brucodecid

- Organic Solvents

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

- Alcohols

Methanol	Isopropyl

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

GRAFFITI REMOVAL

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

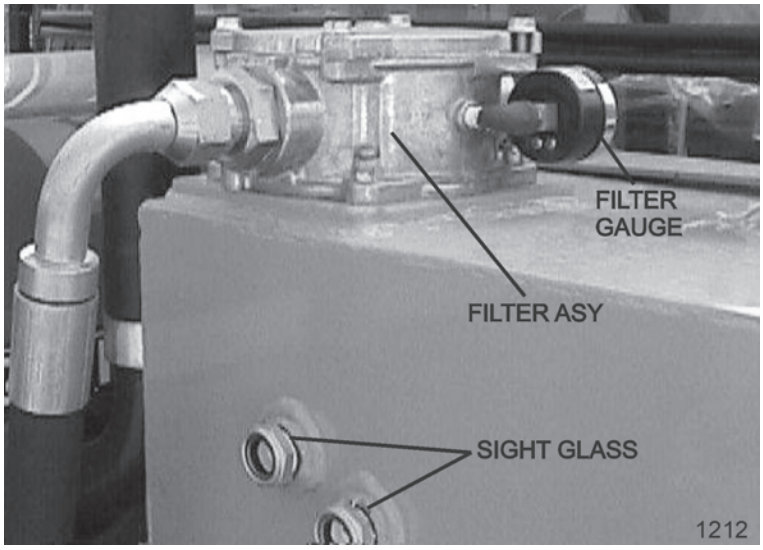
To remove labels, stickers, etc., the use of kerosene or VM&P naphtha are generally effective. When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal.

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

RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

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

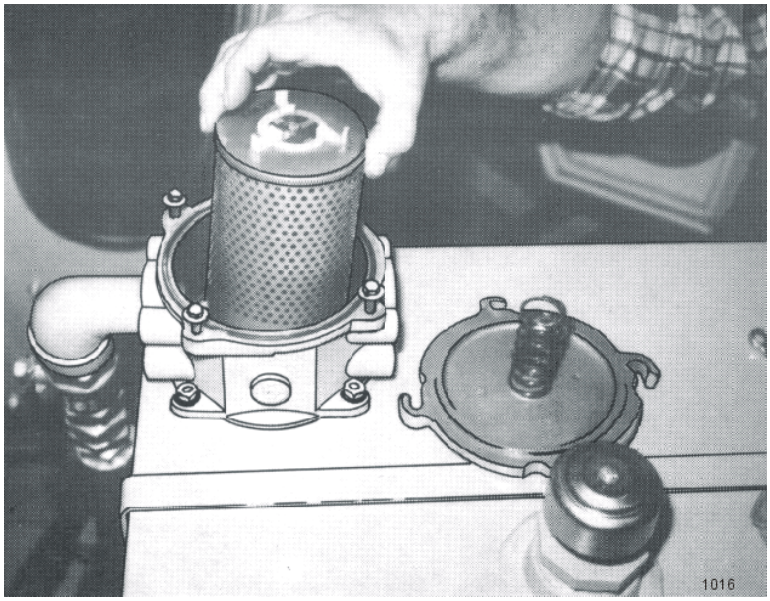
The reservior should be filled to the top of the lower sight glass on the side of the tank. Do not over-fill. The reservior has been over-filled when oil is visible in the upper sight glass. If tank has too much oil, the excess may be expelled through the pressurized breather.



DETAILED MAINTENANCE

REPLACEING IN-TANK HYDRAULIC FILTER:

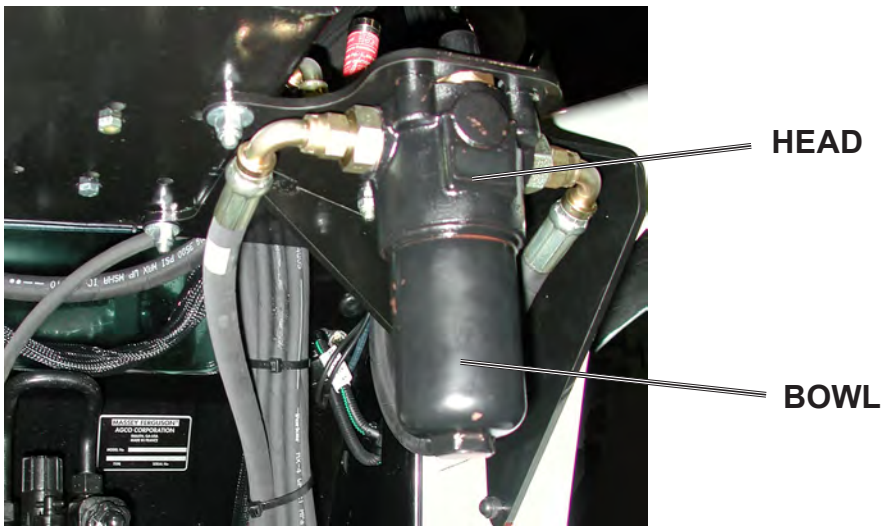
Loosen the four bolts on the top cover of the filter housing. Turn cover counter-clockwise until cover is free. Remove and replace filter. Replace top cover and cover bolts in opposite order as removed.



DETAILED MAINTENANCE

REPLACEING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

Assure 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, and use the appropriate spanner wrench –or- ratchet that matches the hex pattern. Using the spanner wrench -or- ratchet and turning in a counterclockwise rotation, (looking at the bottom of the bowl) remove the bowl from the head, The first couple rotations will seam 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 due to 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. Install the new element into and on the mounting boss with in the head; assure that the element is fully seated on the boss. Clean and inspect the o-ring that is affixed in the bowl, lubricate with oil. Using a clockwise rotation, screw the bowl back into the head, assuring that the bowl has not been cross threaded into the head. Continue “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 been fully inserted into the head, and the o-ring has reached the sealing flats, the bowl can no longer be “tightened” and bottoms out. Once the bowl has bottomed out, “back-off” the bowl by 1/6 turn, this assures that the o-ring is seated properly with in 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. This is first to be done at 50 hours of operation, then yearly(500 hours) or when indicated by restriction indicator.

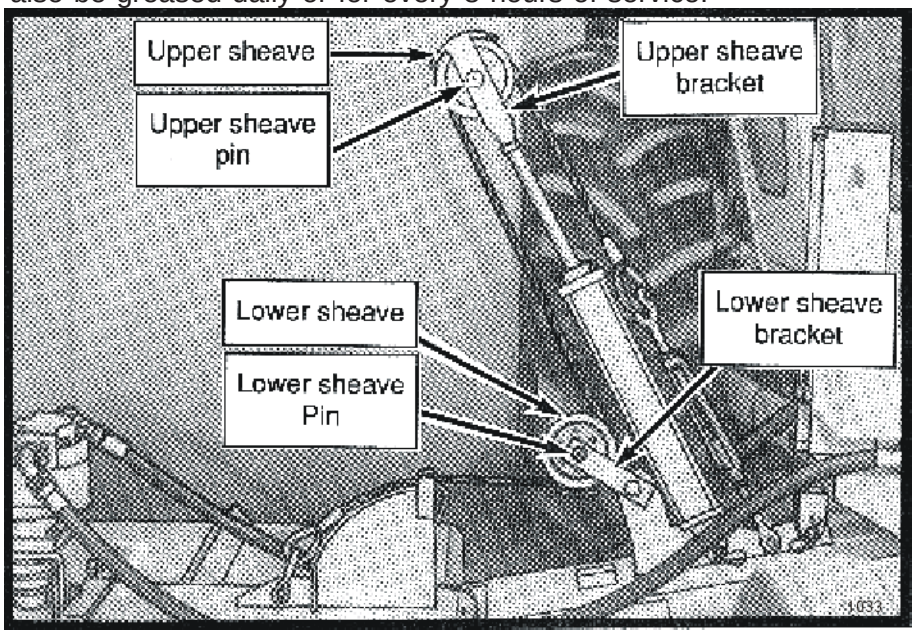


GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

Locate the grease zerks on the inner and outer draft beam pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into each zerk until grease protrudes from joints. Grease all pivots daily or every 8 hours of service.

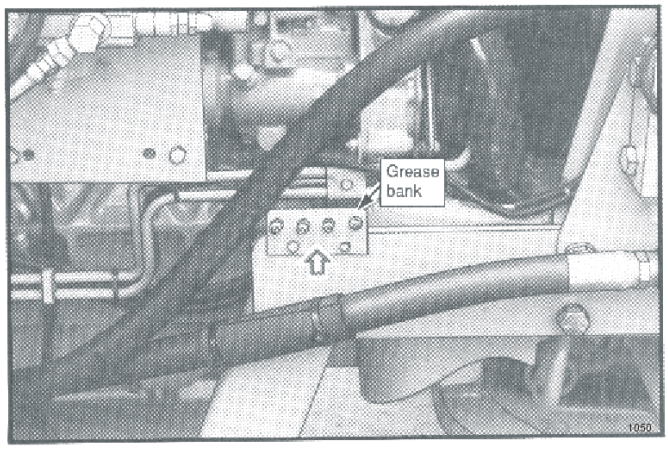
GREASING THE UPPER AND LOWER SHEAVES

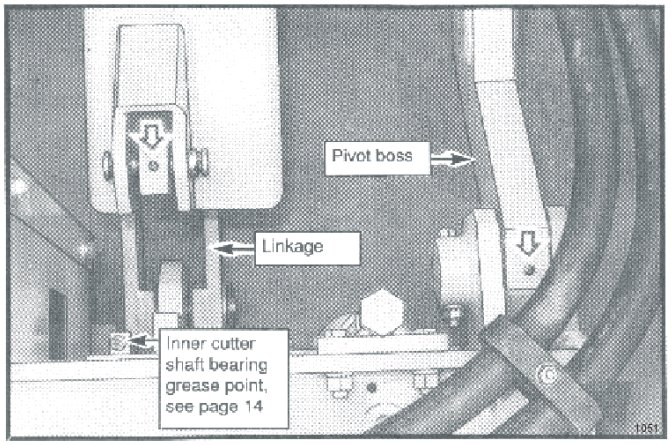
Locate the grease zerks on the ends of the upper and lower sheave pins as shown below. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into each pin until it protrudes from the ends. These should also be greased daily or for every 8 hours of service.

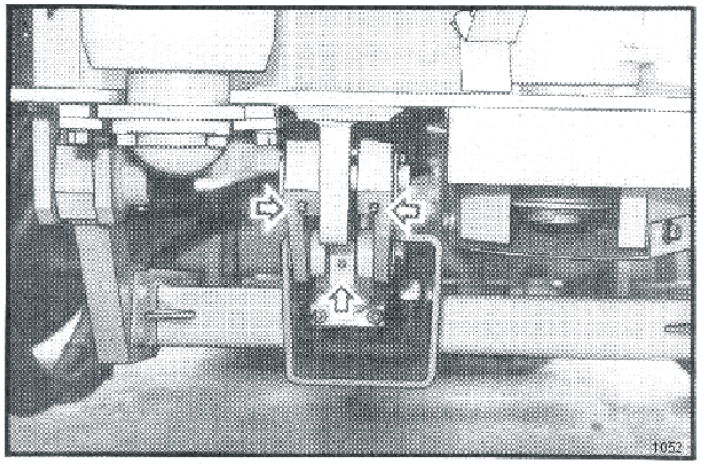


GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

Locate the grease zerks on the inner and outer draft beam pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications into each zerk until grease protrudes from joints. Grease all pivots daily or every 8 hours of service.





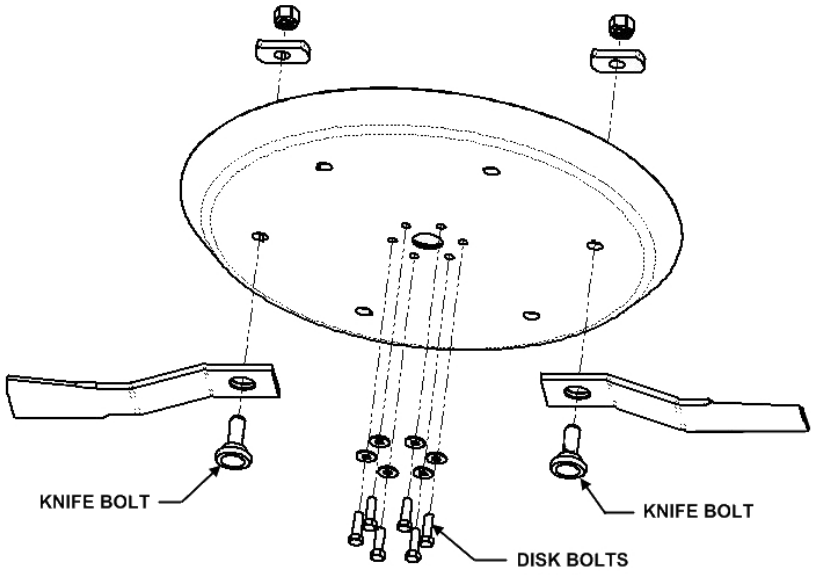


With the cutter head lowered, locate the grease zerks on the linkage and pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until it protrudes from the ends. With the cutter head in this position it is also possible to grease the draft beam cylinder anchors and pins. Now raise the cutter head to expose the remaining zerks on the deck tilt linkages and on the other end of the cylinder.

TIGHTENING KNIFE BOLTS AND DISK BOLTS:

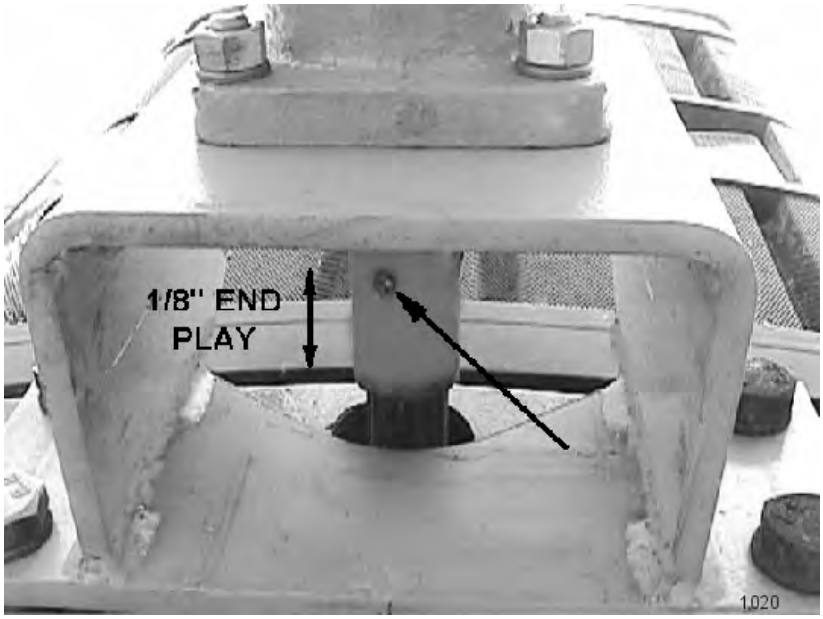
After every 8 hours of operation or daily, the Knife Bolts and Disk Bolts should be tightened as follows:

Knife mounting bolts (2ea.) torque oiled to 800 ft. lbs.
Disk mounting bolts (6ea.) torque dry to 204 or oiled to 184 ft. lbs.



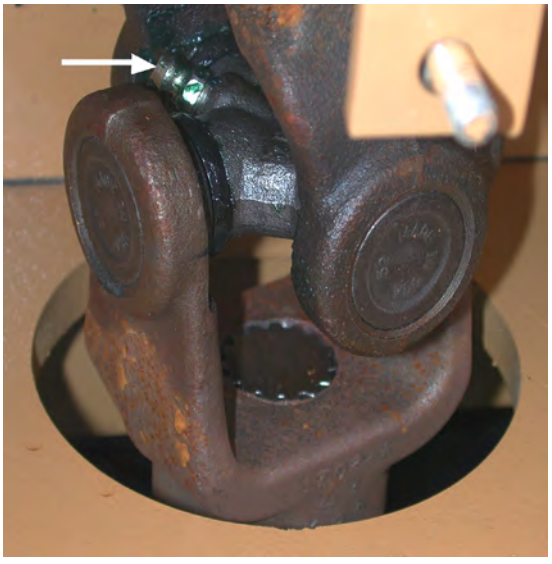
GREASING PUMP DRIVE SHAFT COUPLER:

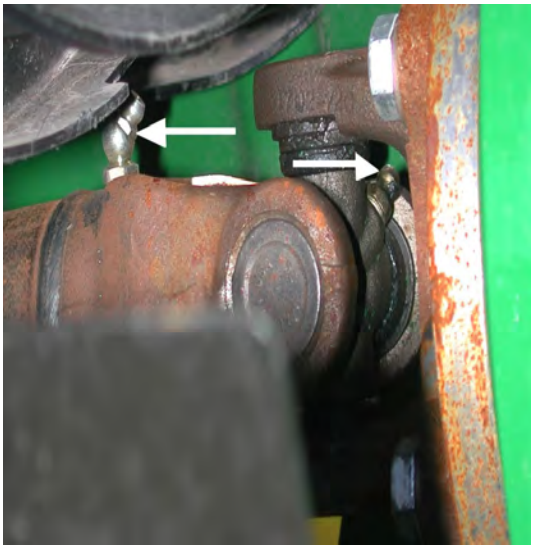
With engine stopped, ensure drive shaft alignment by grasping coupler and sliding back and forth. Coupler should slide freely with approximately 1/8" of end play. If coupler does not slide freely, inspect for loose pump mount bolts, or damaged or loose crank shaft adapter. Inject Lithium-Complex Extreme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



DRIVE SHAFT YOKE, U-JOINT & STUB SHAFT

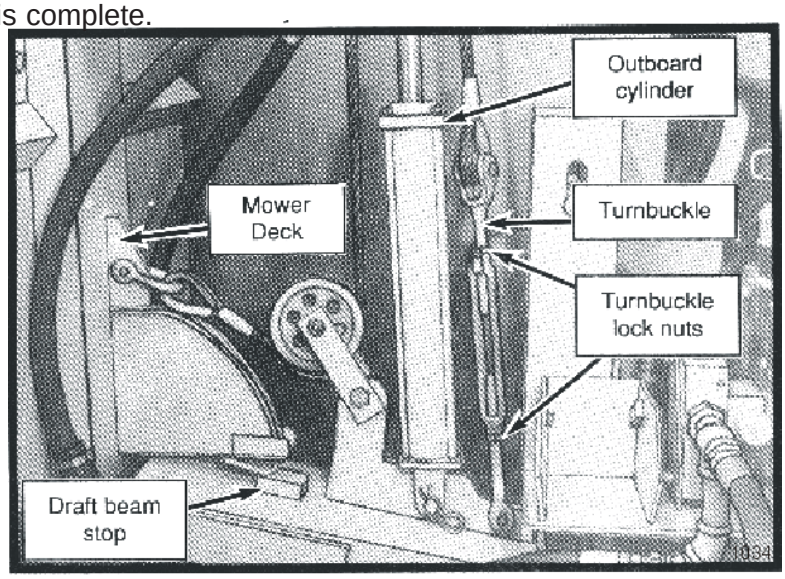
With engine stopped, inject Lithium-Complex extreme pressure grease conforming to NLGI2-ISO 320 specifications into universal joints and slip yoke untill grease appears at the seal. Grease them daily or every 8 hours.





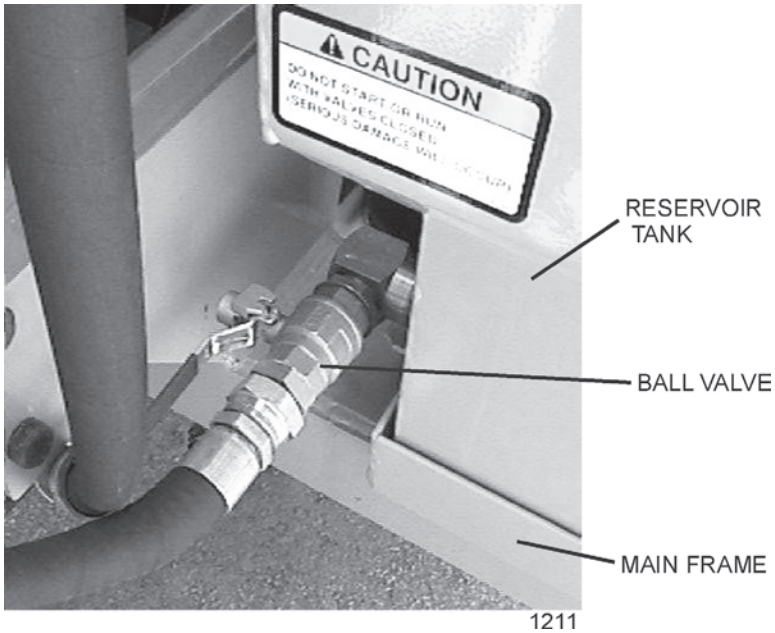
ADJUSTING THE CABLE LIFT

Extend the outboard cylinder until the mower deck touches its stop on the draft beam as shown. NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop. Now hold the head against the stop and tighten the turnbuckle until the cable is tight. Lower and raise the head to check the adjustment. The head should touch its stop at the same time the cylinder reaches full extension. Tighten turnbuckle lock nuts securely after adjustment is complete.



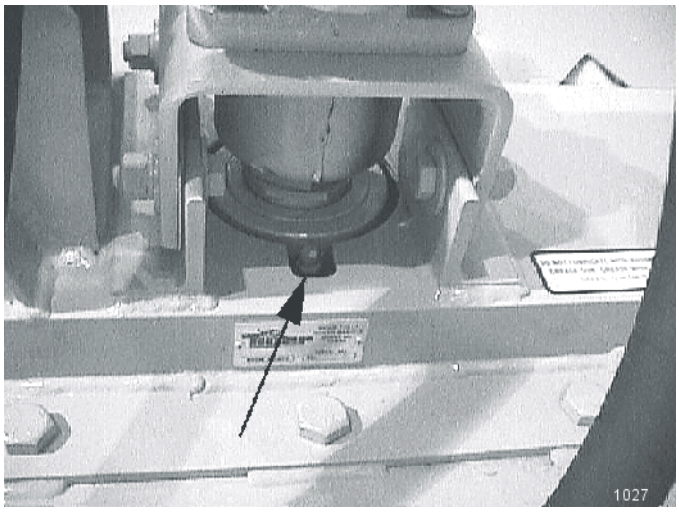
BALL VALVES

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 TRACT OR IS RE-STARTED OR PUMP IS COUPLED TO MOTOR OR P.T.O. !** Failure to do so may result in component failure!



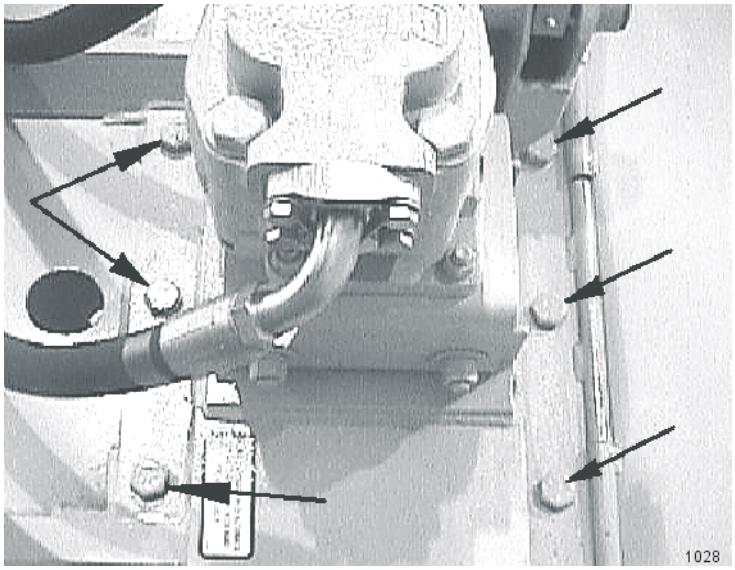
GREASING SPINDLE

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 the top spindle seal. Lubricate spindle weekly or every 40 hours of use.



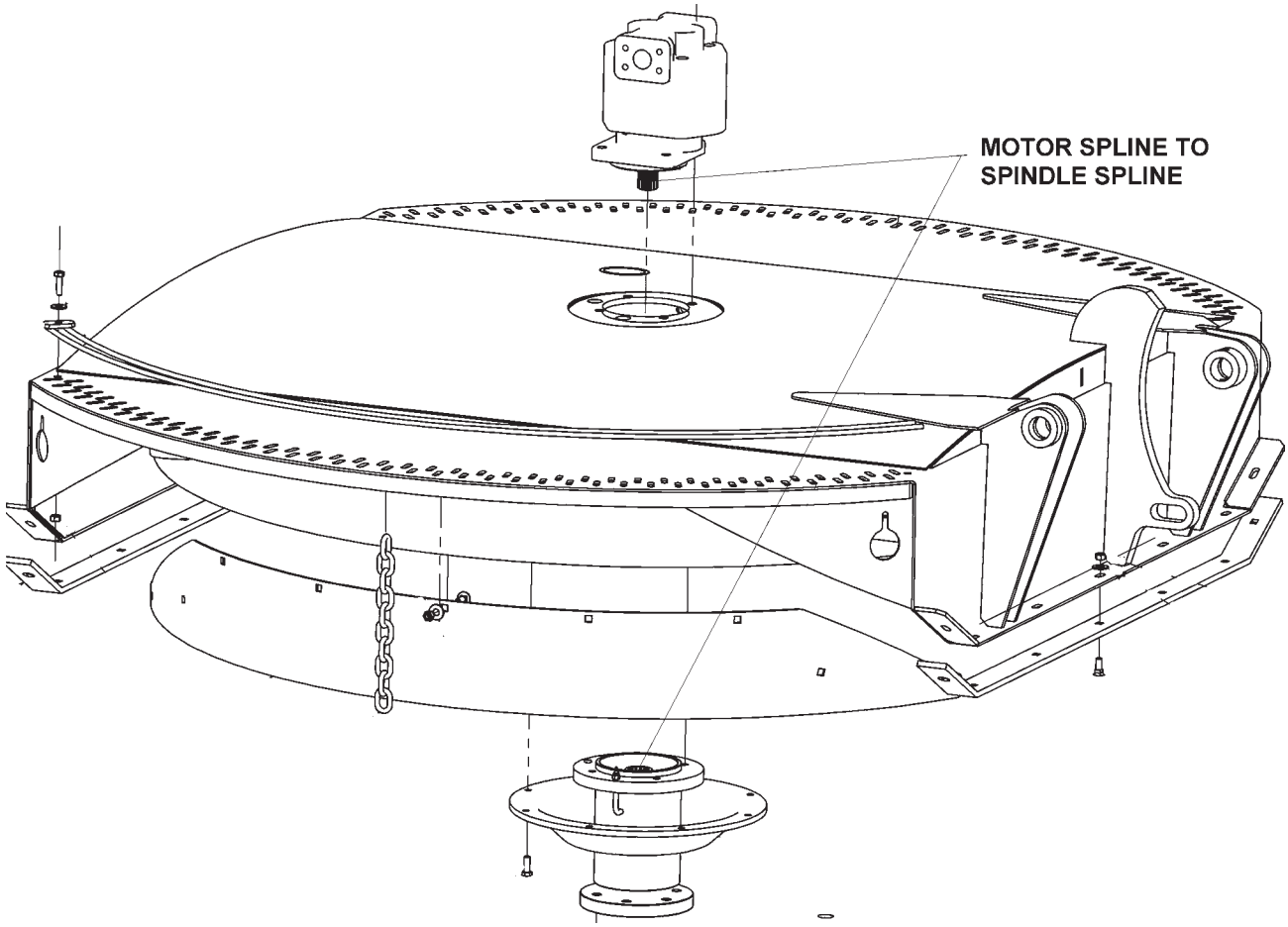
TIGHTENING SPINDLE BOLTS

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



GREASING MOTOR SPLINE TO SPINDLE SPLINE

Locate motor spline and spindle spline on the mower deck. Grease splines with Mobil moly 52. Use about 4 ounces of grease. Change grease yearly or every 500 hours.



INSPECTION OF ROTARY KNIVES

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

1 – **DO NOT** weld on the knife or bolts. Damaged or worn knives must be replaced.

2 – Knife must be replaced in sets. Knives with unequal wear may cause serious vibration and resulting structural damage to the mower.

3 – The self-locking nuts for the knife mounting bolts must **NOT** be reused. If the self-locking nut is removed from the knife mounting bolt, the nut **must** be replaced with a new self-locking nut.

4 – Inspect the condition and tightness of the knife mounting bolts and disk mounting bolts daily.

ROTARY KNIFE REPLACEMENT

1 – Be sure you have a complete matching set of new knives for replacement.

2 – Remove knives and inspect holes for damage. Also watch for cracks in the disk around the holes.

3 – Lube threads with anti-seize, motor oil or grease. Install bolt through knife and disk from bottom side of disk. Install new self-locking nuts and torque them to 800 oiled ft. lbs.

4 – The knives should swing freely to absorb shocks from impact when striking objects.

WHEN CUTTING HEAVY BRUSH, KNIFE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 1070 dry or 800 oiled FT. LBS.

REPLACEMENT OF ROTARY DISK

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

The bolts that attach the knife mounting disk to the spindle must be grade 8. These 5/8 inch bolts are to be torqued to 204 dry or 184 oiled ft. lbs.

A thread locking agent may be applied to threads of all mounting bolts before they are installed.

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.

Inspect the disk mounting bolts daily when checking tightness of blade 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.

If a knife mounting bolt is loose, the self locking nut must be replaced as a safety precaution. Lubricate threads with anti-seize, grease or motor oil. Place bolts through knife and disk from bottom side of disk. Install self locking nuts and torque them to 800 ft. lbs.

1- WARNING: The disk alone weighs approximately 210 lbs. Be sure its weight can be supported before attempting to replace. The use of a lift mechanism will ease replacement.

2- Remove the six disk mounting bolts and the disk from the spindle.

3- Install new disk and align with mounting bolt holes.

4- Apply a thread locking agent to all of the mounting bolts and install the bolts through the disk. If a bolt protector is being installed, hold the protector in place and install the bolts through the bolt protector and disk. **NOTE**: Disk bolts must be Grade 8.

5- Tighten bolts down and torque to values noted.

6- See knife replacement instructions for replacing the knives onto the new disk.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

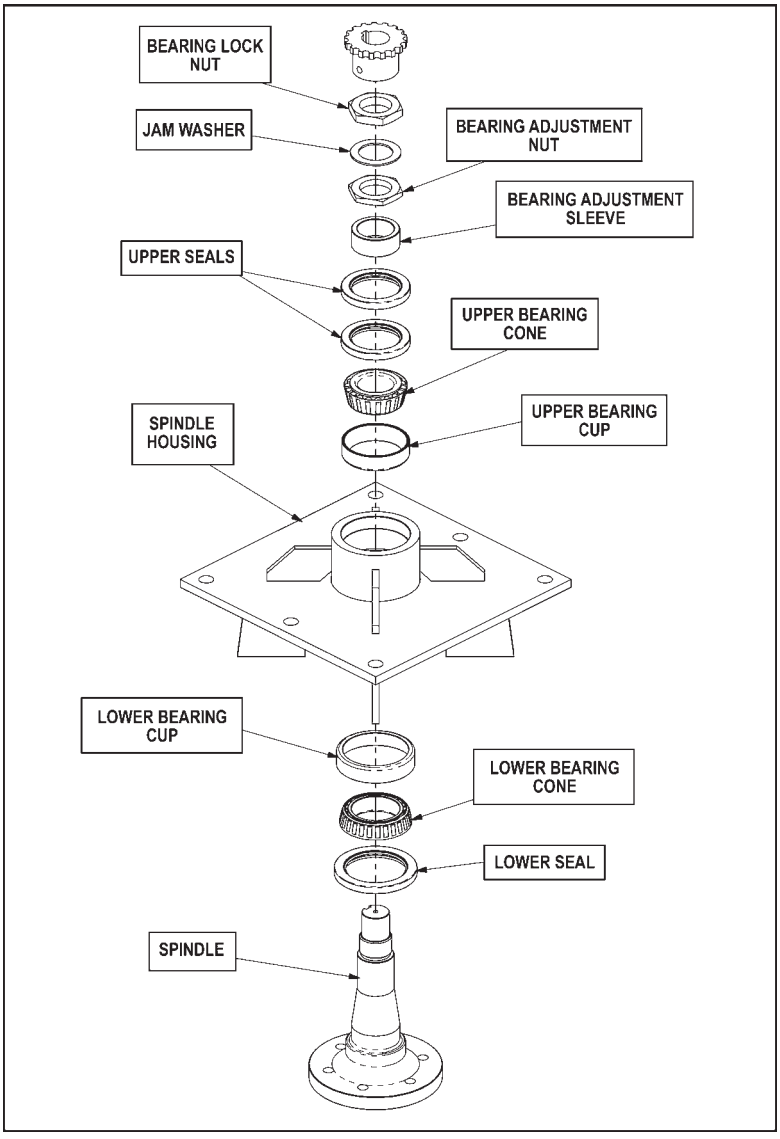
WARNING! A press MUST be used to install bearing cups, bearing cones, and seals. DO NOT use a hammer to install races, bearings, or seals. The parts of assembly may be damaged.

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.

THE SPINDLE ASSEMBLY

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



BEARING INSTALLATION

1 – Press upper bearing cup into the spindle housing.

2 – Turn the spindle housing over and press in the lower bearing cup.

3 – Place the lower bearing cone in the bearing cup. Next press the seal into the spindle housing. The inner lip of the seal must be DOWN, towards the bearing, so lubricant is sealed inside the housing.

4 – Install the spindle in the housing. Lightly 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.

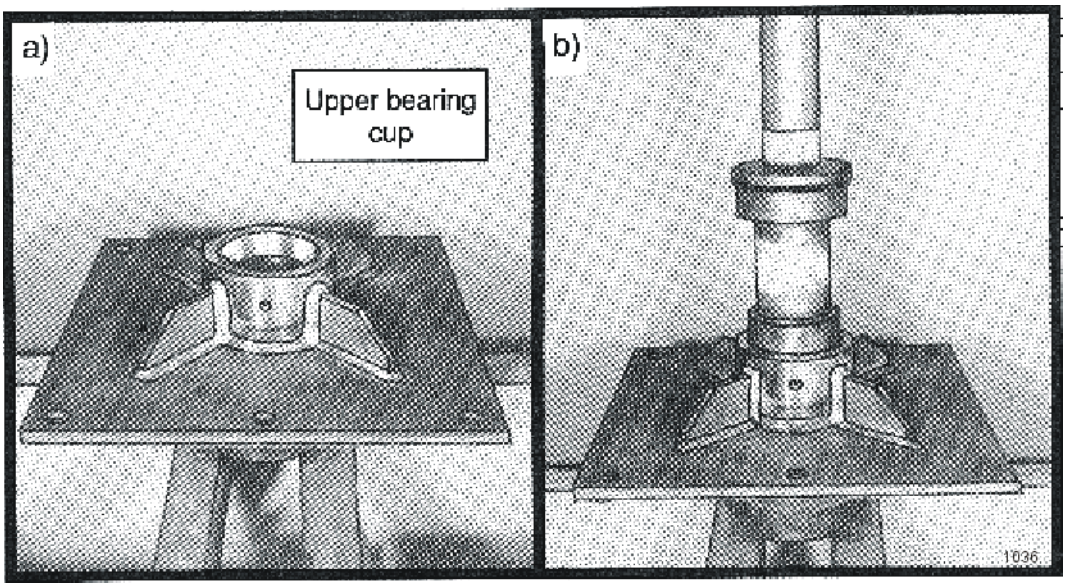
NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.

6 – 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.

7 – Install the bearing adjustment nut (thin nut) so there is 1/16" clearance between the nut and the sleeve. Install the jam washer, placing the tab into the key-way. Install the bearing lock nut (thick nut) and hand tighten against jam washer and adjustment nut. See the following section for bearing adjustment.

8 – 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.

9 – Install the plug into the drain hole.



BEARING ADJUSTMENT

1 – Clamp the bottom end of the spindle securely in a vise so the spindle housing turns freely.

2 – Position a magnetic base dial indicator on the outer diameter of the spindle housing. Locate the end of the dial indicator against the flat end of the spindle shaft. The dial indicator will now measure accurately bearing end play.

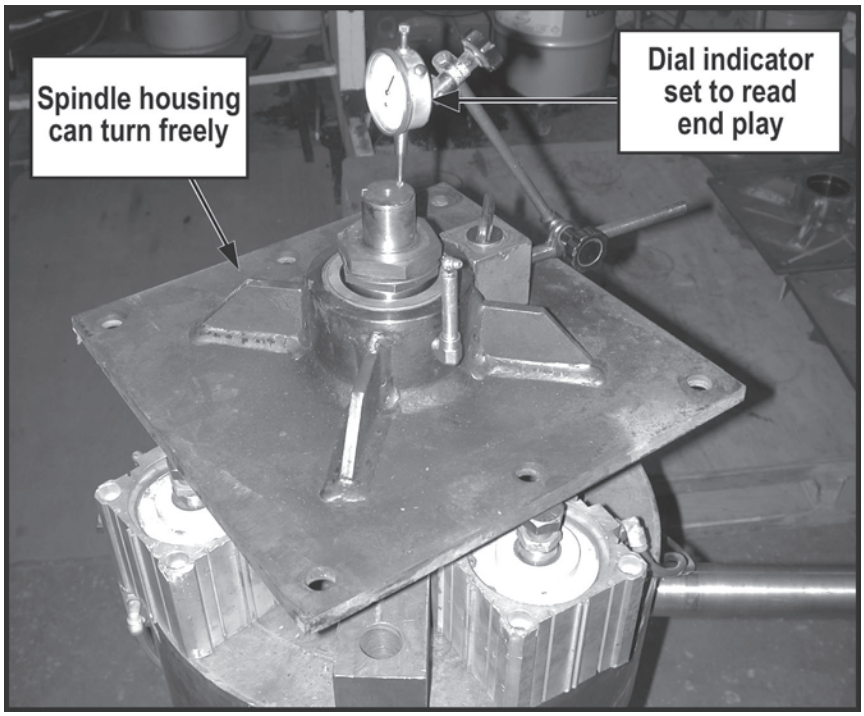
3 – Tighten the bearing adjustment nut until there is .012 inch movement when the spindle housing is pried upward away from the vise jaws.

4 – When there is .012 inch free play between the spindle and housing, install the bearing lock nut (thick nut). Hold the adjusting nut securely and tighten the lock nut to 300 ft. lbs. of torque.

5 – After the lock nut is tightened, there must be .001 inch to .003 inch of free play when lightly prying up on the spindle housing.

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

If the end play in 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.



DAILY MAINTENANCE SCHEDULE

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

_____ Pump Drive Shaft: Check for end play in drive shaft / coupler 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.

_____ Main Frame / 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: (if applicable) Grease as instructed in the detailed maintenance section.

_____ Cutter Shaft and Ground Roller: Grease as instructed in the detailed maintenance section

Service performed by:_____ Date:____/____/____ Hour Meter:_____

Maintenance Section

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

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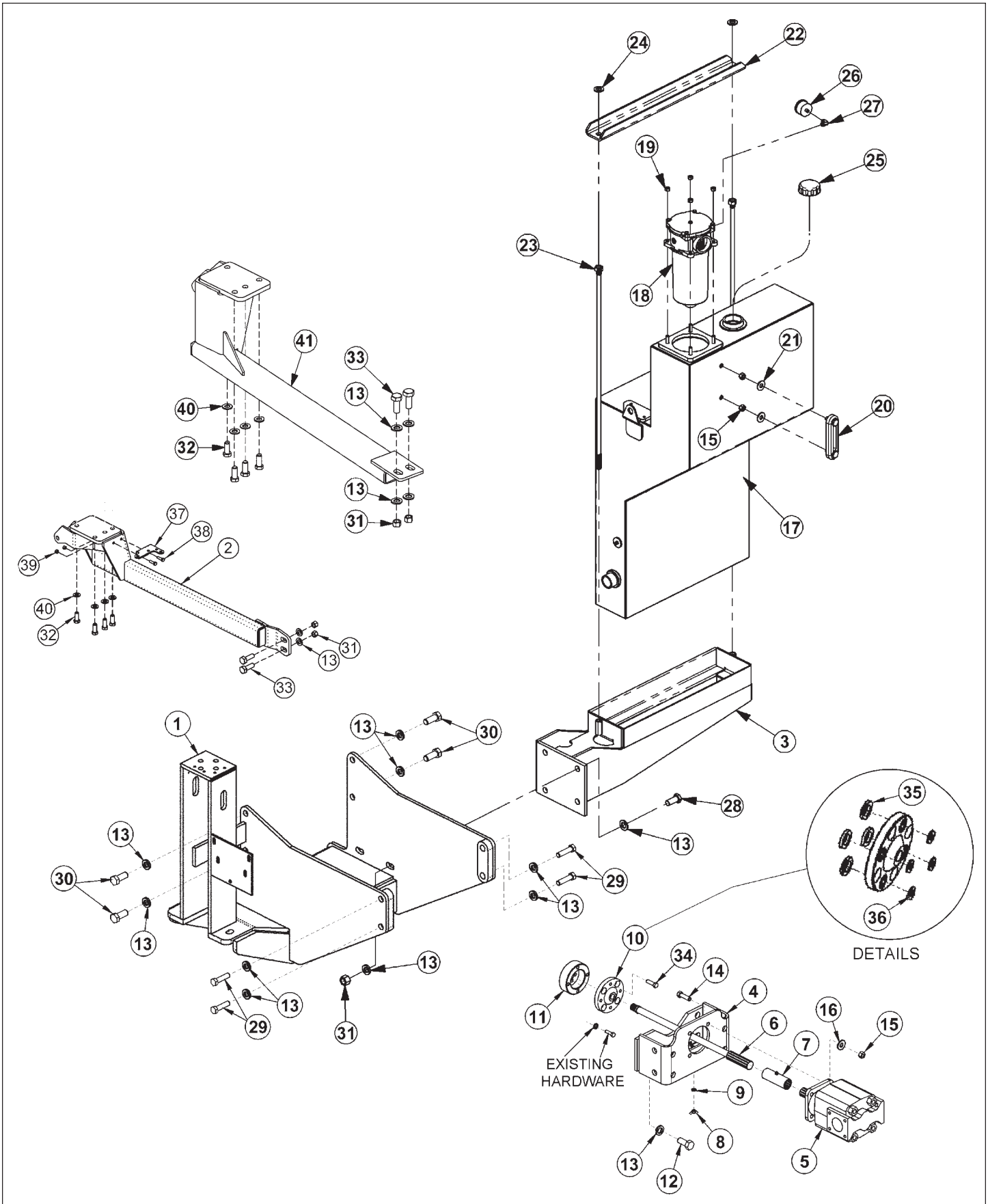
For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

PARTS SECTION TABLE OF CONTENTS

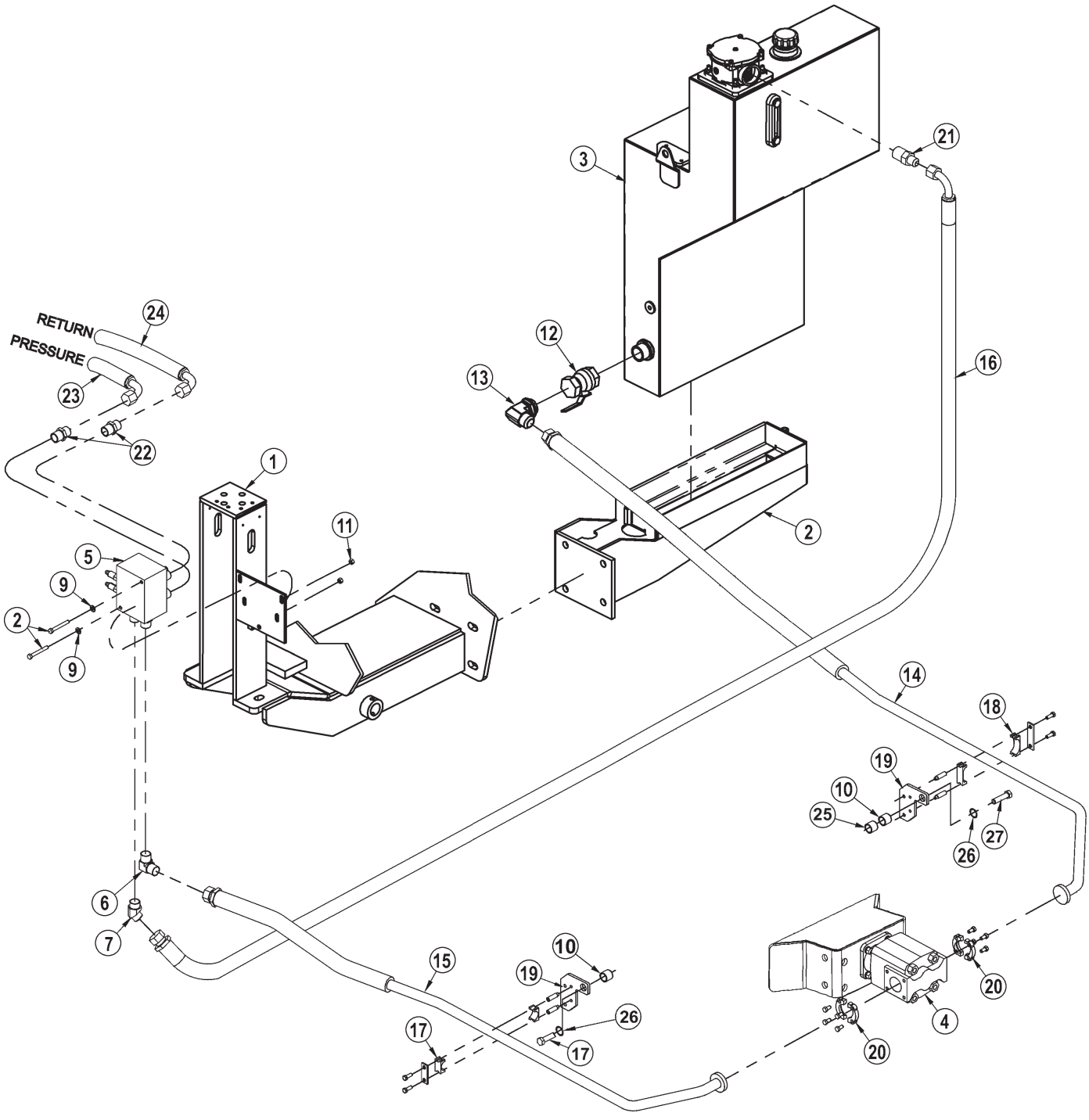
TRACTOR MOUNT KIT - MAIN FRAME 5101E



TRACTOR MOUNT KIT - MAIN FRAME 5101E

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300033	1	MNFRM,JD5525,CHET,TSF/TM
2	06300035	1	AXLE BRACE,RIGHT HAND
3	06300088	1	MOUNT,TANK
4	32642	1	PUMP MOUNTING BRACKET
5	23152	1	PUMP,P350-1 3/4 GEAR
6	06520135	1	DRIVE SHAFT,PUMP,27 7/8"
7	6T0375B	1	COUPLING,14 SPLINE,W/ZERK,4
8	32519	1	NUT,WING,1/4-20 UNC
9	22014	1	FLATWASHER,1/4
10	6T0389	1	CRANKSHAFT ADPT,IHC 885
11	06400307	1	SPACER,CRNKSHFT ADPT
12	24860	4	CAPSCREW,20mmx40mm(2.5P)
13	33880	26	FLATWASHER,3/4,GR 8
14	21732	4	CAPSCREW,1/2 X 1-3/4 NC
15	21725	6	HEX NUT,1/2 NC
16	06533004	4	FLATWASHER,1/2
	06700090	**AVAIL.**	**TANK,RES,JD6000,ASSY**
17	06380012	1	TANK,RES,JD60004WD(34GAL)
18	06505044	1	FLTR ASSY,IN-TANK CPLT,SAE10MP
19	21627	4	NYLOCK NUT,3/8 NC
20	06505067	1	SIGHT GAUGE,JD6000,TANK,34GAL
21	22018	2	FLATWASHER,1/2,WIDE
22	06410352	1	CHANNEL,MNT,TANK,TIE-BOLT
23	06380014	2	TIE BOLT,SIDE TANK,HYDRO
24	33764	2	FLATWASHER,5/8,GR 8,SAE
25	06505077	1	CAP,BREATHER,O-RING
26	6T0649	1	FILTER GAUGE
27	TF4888	1	STREET ELBOW,1/8 X 90
28	21833	4	CAPSCREW,3/4 X 2-1/4 NC
29	25341	4	CAPSCREW,20mmx70mm(2.5PITCH)
30	24860	4	CAPSCREW,20mmx40mm(2.5PITCH)
31	21825	8	HEX NUT,3/4 NC
32	22421	8	CAPSCREW,16MMX40MM(2.0 PITCH)
33	21832	4	CAPSCREW,3/4 X 2 NC
34	6T2260	4	CAPSCREW,7/16 X 1-1/2 CUTOFF
35	06537004	4	WASHER,NEOPRENE,.75x1.25x.19
36	24937	4	FLATWASHER,7/16
37	06410857	1	BRACKET
38	21631	2	CAPSCREW,3/8 x 1-1/4,NC
39	21625	2	NYLOCK NUT,3/8,NC
40	33764	8	FLATWASHER,5/8,SAE,GR8
41	06300194	1	AXLE BRACE,LEFT HAND

TRACTOR MOUNT KIT - HYDRAULICS 5101E

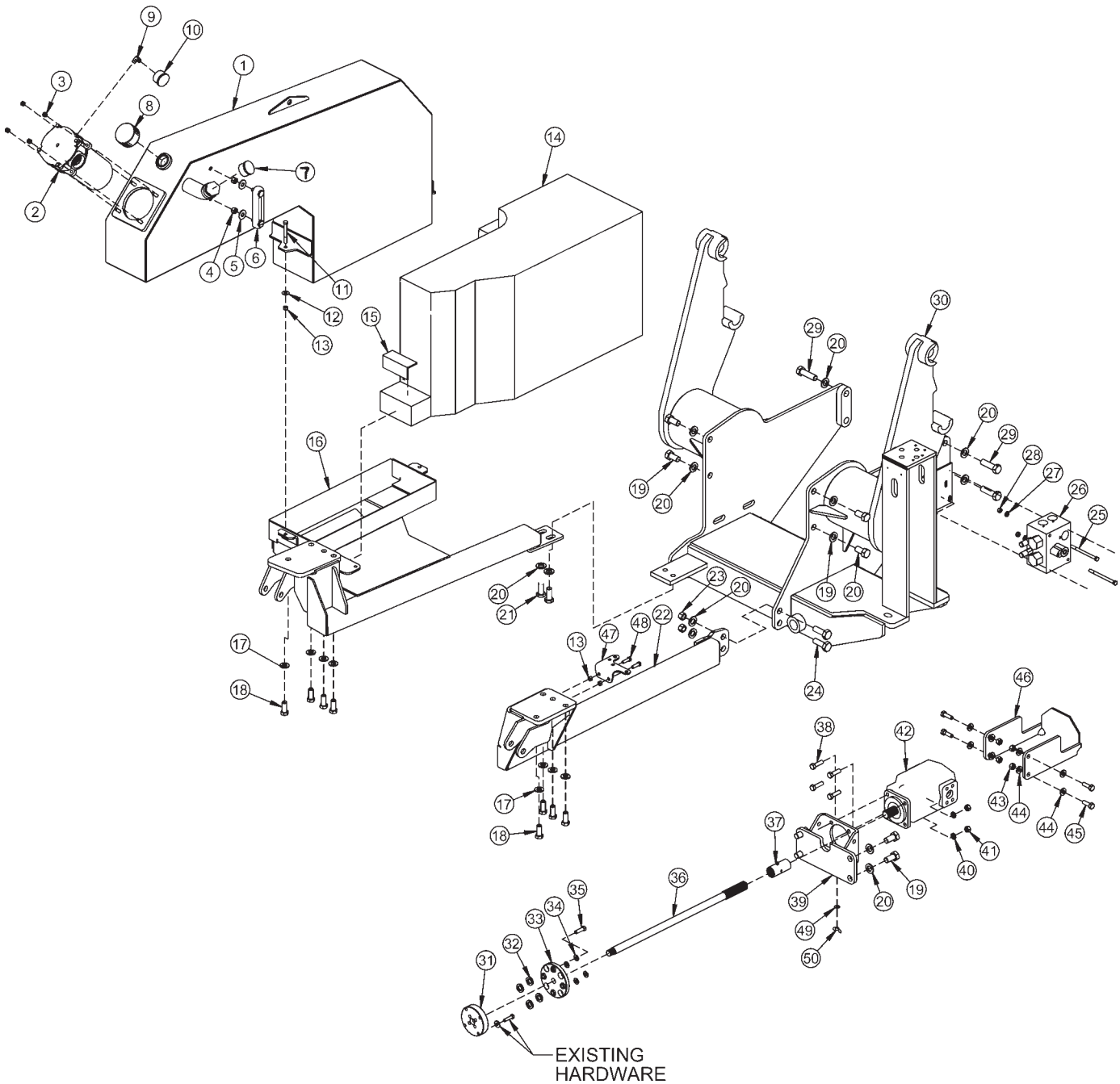


TRACTOR MOUNT KIT - HYDRAULICS 5101E

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300033	1	MAIN FRAME
2	06300080	1	MNT,HTDRO TANK,NHT6010
3	06700090	ASSY	HYDRAULIC TANK
4	23152	1	PUMP
5	06510083	1	SOLENOID BRAKE VALVE
6	34117	1	ELBOW 1”MORB X 1”MORB90
7	33554	1	ELBOW 1”MORB X MJIC45
8	21644	2	CAPSCREW,3/8” X 5”
9	22016	2	FLATWASHER,3/8”
10	30255	2	SPACER,1-1/4OD X 3/4ID X 3/4
11	21627	2	NYLOCK NUT,3/8 NC
12	34309	1	BALL VALVE,1-1/2 FOR
13	34655	1	ELBOW,1-1/2 ORB X 1 1/2 MJ
14	06506039	1	HOSE/TUBE,#24 X 65(24FJX x 20FL)
15	06506023	1	HOSE/TUBE ,1 X 62(20FLG x 1FJX)
16	06500398	1	HOSE,#16 X 114(16FJXx16FJX90)
17	34076	1	CLAMP KIT,1”
18	34075	1	CLAMP KIT,1-1/4”
19	34626	2	TUBE / CLAMP BRACKET
20	TF4852	2	FLANGE KIT - #20
21	34064	1	ADAPTER,1-1/4” X 1”
22	33555	2	ADAPTER,1”MORB X 1”MJIC
23	34246	1	HOSE 1” X 90 ”
24	34245	1	HOSE 1” X 82”
25	34519	1	SPACER,1-1/4OD X 13/16ID X 1-1/8
26	33764	2	FLATWASHER,5/8,SAE,GR 8
27	31732	1	CAPSCREW,16MM X 70MM,2.0P
**	**6T3200**	**8**	**SPLIT HOSE (NOT SHOWN)**
**	**6T1823**	**24**	**ZIP TIE (NOT SHOWN)**
**	**6T1822**	**14**	**ZIP TIE (NOT SHOWN)**

NOTE: Band hoses together with zip ties wherever loose. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties.

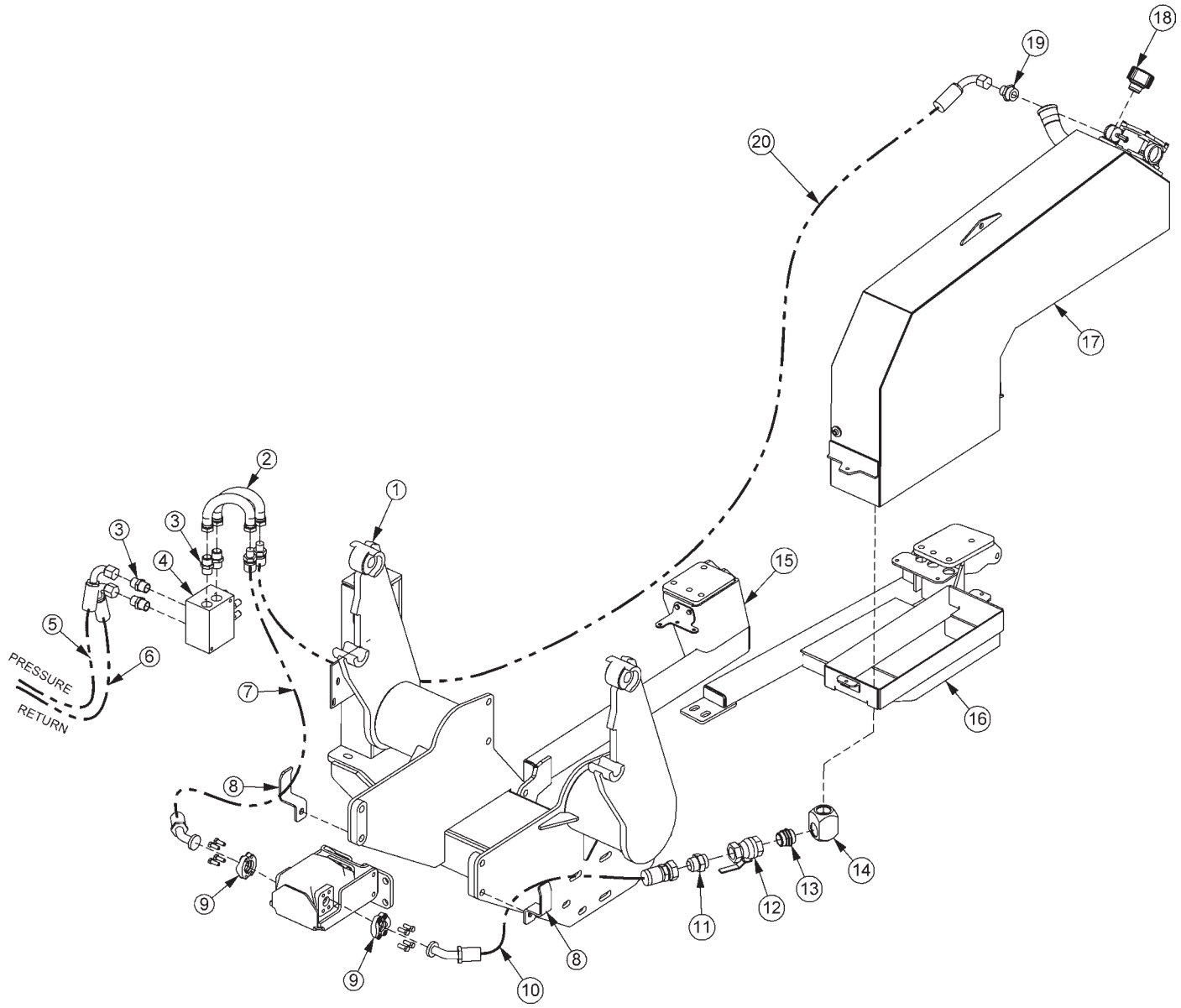
TRACTOR MOUNT KIT - MAIN FRAME 5101E - LOADER



TRACTOR MOUNT KIT - MAIN FRAME 5101E - LOADER

ITEM	PART NO.	QTY.	DESCRIPTION
*	**06700091**	**AVAIL.**	**TANK,RES,ASSY,WHEEL WELL**
1	06380015	1	TANK,RES,WHEEL WELL
2	06505044	1	FILTER ASSY,IN-TANK CPLT,SAE10,MP
3	21627	4	NYLOCK NUT,3/8,NC
4	21725	2	HEX NUT,1/2,NC
5	22018	2	FLATWASHER,1/2,WIDE
6	06505067	1	SIGHT GAGE
7	06505127	1	PLUG,SAE,#20
8	31004	1	CAP,PRESSURE,3.0PSI,3/4MP
9	TF4888	1	STREET ELBOW,1/8
10	6T0649	1	FILTER GAGE
11	21639	2	CAPSCREW,3/8 x 3-1/4,NC
12	22016	2	FLATWASHER,3/8
13	21627	4	NYLOCK NUT,3/8,NC
14	*	*	JD FUEL TANK
15	6T3200	1	SPLIT HOSE
16	06300108	1	AXLE BRC,LH,5101E,LDR
17	33764	8	FLATWASHER,5/8,GR8,SAE
18	22421	8	CAPSCREW,16MM x 200MM,(2.0P)8.8
19	24860	8	CAPSCREW,20MM x 40MM,(2.5P)10.9
20	33880	16	FLATWASHER,3/4,GR 8,SAE
21	21831	2	CAPSCREW, 3/4 X 1 3/4,NC
22	06300035	1	AXLE BRACE,JD5525,RH
23	21825	2	HEX NUT,3/4,NC
24	21833	2	CAPSCREW,3/4 x 2-1/4,NC
25	21644	2	CAPSCREW,3/8 x 5,NC
26	06510083	1	VALVE,BRAKE,SOL,3000PSI
27	21988	2	LOCKWASHER,3/8
28	21625	2	HEX NUT,3/8,NC
29	25341	4	CAPSCREW,20MM x 70MM,(2.5P)
30	06300107	1	MNFRM,JD5101E,553LDR
31	06400307	1	SPACER,CRNKSHFT ADPTR
*	**6T0389**	**AVAIL.**	**CRANKSHAFT ADPT,IHC 885**
32	06537004	4	WASHER,NEOPRENE,.75 x 1.25 x .19
33	31674	1	CRANKSHAFT ADPT PLATE
34	24937	4	FLATWASHER,7/16
35	6T2260	4	CAPSCREW,7/16 x 1-1/2,NC
36	06520330	1	DRIVESHAFT,PUMP
37	06700133	1	COUPLER,14SPLINE,LDR
38	21732	4	CAPSCREW,1/2 x 1-3/4,NC
39	06380033	1	MNT,PUMP,5101E,LDR
40	06533004	4	FLATWASHER,1/2
41	21725	4	HEX NUT,1/2 NC
42	23152	1	PUMP,P350-1-3/4 GEAR
*	**06200709**	**AVAIL.**	**PUMP GUARD KIT,JD5101E**
43	21727	4	NYLOCK NUT,1/2,NC
44	06533004	8	FLATWASHER,1/2,SAE
45	21731	4	CAPSCREW,1/2 x 1-1/2,NC
46	06380034	1	GUARD,PUMP,5101E,LDR
47	06410857	1	MNT,SPPRT,HYDRO
48	21631	2	CAPSCREW,3/8 x 1-1/4,NC
49	22014	1	FLATWASHER,1/4
50	32519	1	WING NUT,1/4-20 UNC

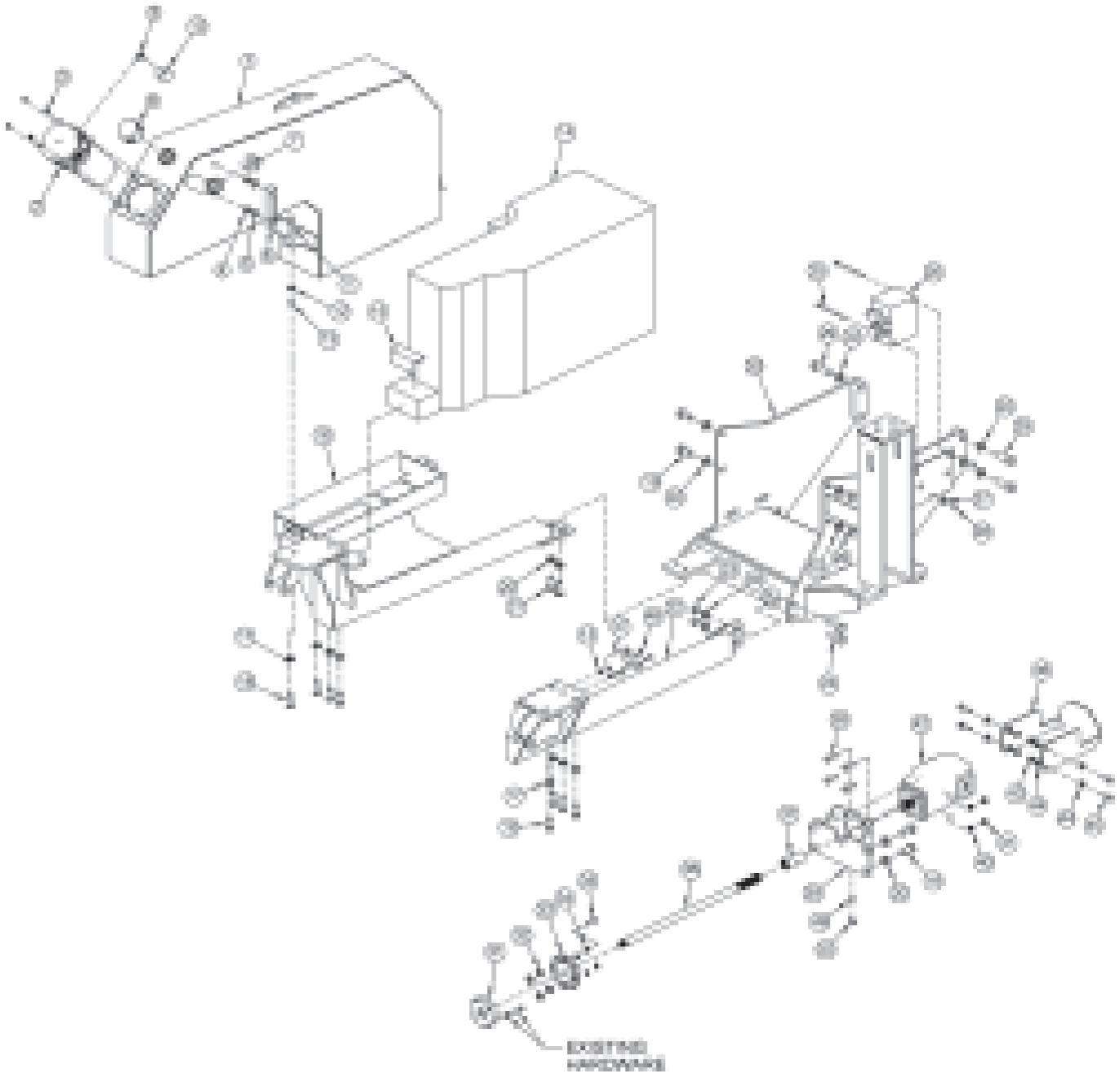
TRACTOR MOUNT KIT - HYDRAULICS 5101E - LOADER



TRACTOR MOUNT KIT - HYDRAULICS 5101E - LOADER

ITEM	PART NO.	QTY.	DESCRIPTION
1	*	**REF**	**REFER TO MAIN FRAME PARTS**
2	06506012	2	PRFRMD TUBE
3	33555	4	ADAPTER,1MORBX1MJIC
4	*	**REF**	**REFER TO MAIN FRAME PARTS**
5	06500423	1	HOSE, 1x75
6	06500125	1	HOSE, 1x77
7	06500407	1	HOSE, 1x92
8	32382	2	HOSE BRACKET
9	TF4852	2	FLANGE KIT,#20
10	06500408	1	HOSE, 1-1/2x92
11	34710	1	ADAPTER,1-1/2ORB x 1-1/2MJ
12	34309	1	BALL VALVE,1-1/2
13	06503083	1	ADAPTER,1-1/2ORB x 1-1/2ORB
14	06503084	1	ELBOW,1-1/2FOR X 1-1/2FOR
15	*	**REF**	**REFER TO MAIN FRAME PARTS**
16	*	**REF**	**REFER TO MAIN FRAME PARTS**
17	*	**REF**	**REFER TO MAIN FRAME PARTS**
18	06505077	1	BREATHER CAP,O-RING
19	34064	1	ADAPTER,1-1/4MOR X 1MJ
20	06500422	1	HOSE, 1x126

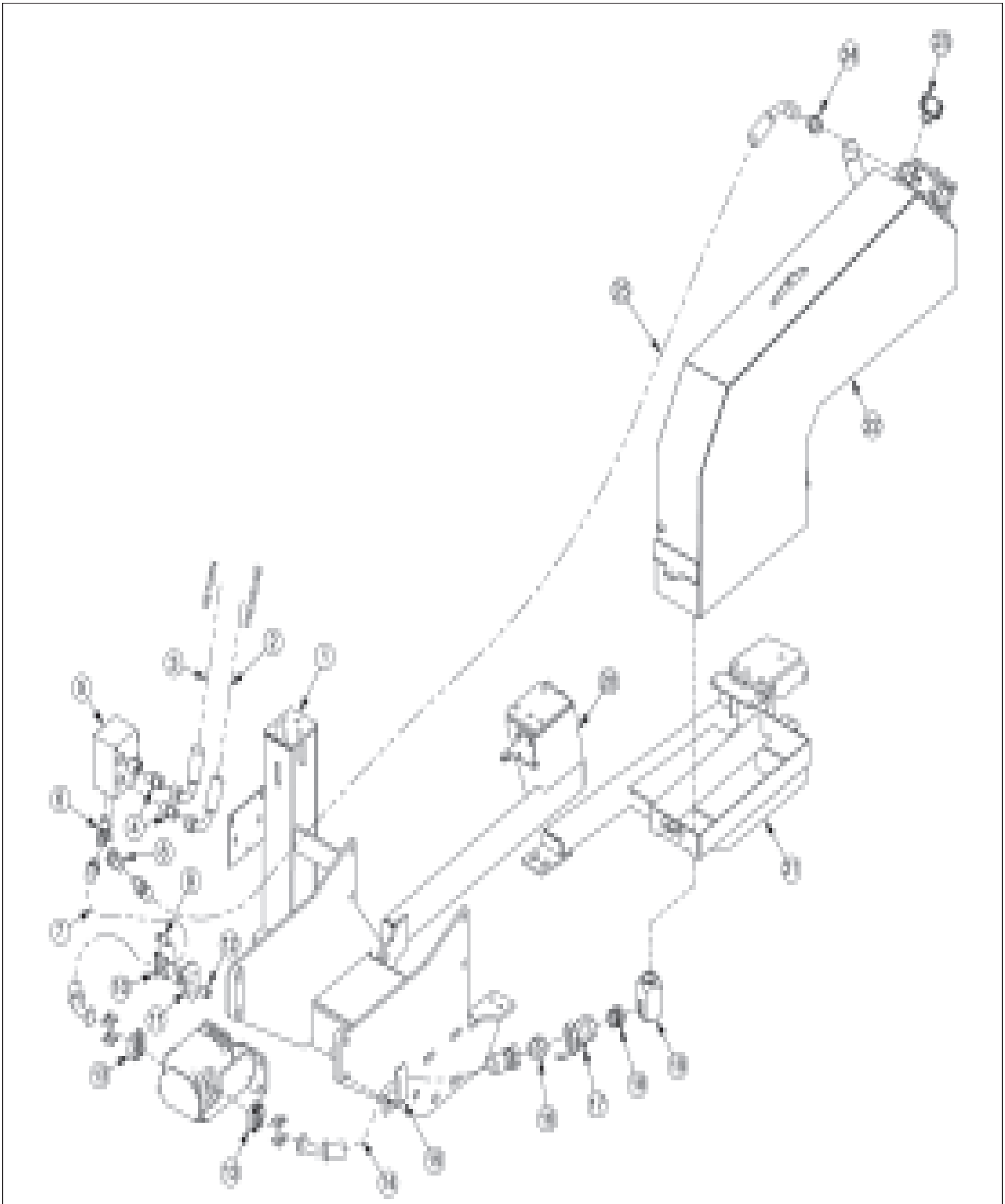
TRACTOR MOUNT KIT - WHEEL WELL TANK



TRACTOR MOUNT KIT - WHEEL WELL TANK

ITEM	PART NO.	QTY.	DESCRIPTION
*	**06700091**	**AVAIL.**	**TANK,RES,ASSY,WHEEL WELL**
1	06380015	1	TANK,RES,WHEEL WELL
2	06505044	1	FILTER ASSY,IN-TANK CPLT,SAE10,MP
3	21627	4	NYLOCK NUT,3/8,NC
4	21725	2	HEX NUT,1/2,NC
5	22018	2	FLATWASHER,1/2,WIDE
6	06505067	1	SIGHT GAGE
7	06505127	1	PLUG,SAE #20
8	31004	1	CAP,PRESSURE,3.0PSI,3/4MP
9	TF4888	1	STREET ELBOW,1/8
10	6T0649	1	FILTER GAGE
11	21639	2	CAPSCREW,3/8 x 3-1/4,NC
12	22016	2	FLATWASHER,3/8
13	21627	4	NYLOCK NUT,3/8,NC
14	*	*	JD FUEL TANK
15	6T3200	1	SPLIT HOSE
16	06300108	1	AXLE BRC,LH,5101E,LDR
17	33764	8	FLATWASHER,5/8,GR8,SAE
18	22421	8	CAPSCREW,16MM x 200MM,(2.0P)8.8
19	24860	8	CAPSCREW,20MM x 40MM,(2.5P)10.9
20	33880	16	FLATWASHER,3/4,GR 8,SAE
21	21831	2	CAPSCREW, 3/4 X 1 3/4,NC
22	06300035	1	AXLE BRACE,JD5525,RH
23	21825	2	HEX NUT,3/4,NC
24	21833	2	CAPSCREW,3/4 x 2-1/4,NC
25	21644	2	CAPSCREW,3/8 x 5,NC
26	06510083	1	VALVE,BRAKE,SOL,3000PSI
27	21988	2	LOCKWASHER,3/8
28	21625	2	HEX NUT,3/8,NC
29	25341	4	CAPSCREW,20MM x 70MM,(2.5P)
30	06300033	1	MNFRM,JD5101E
31	06400307	1	SPACER,CRNKSHFT ADPTR
*	**6T0389**	**AVAIL.**	**CRANKSHAFT ADPT,IHC 885**
32	06537004	4	WASHER,NEOPRENE,.75 x 1.25 x .19
33	31674	1	CRANKSHAFT ADPT PLATE
34	24937	4	FLATWASHER,7/16
35	6T2260	4	CAPSCREW,7/16 x 1-1/2,NC
36	06520330	1	DRIVESHAFT,PUMP
37	6T0375B	1	COUPLER,14SPLINE
38	21732	4	CAPSCREW,1/2 x 1-3/4,NC
39	32642	1	MNT,PUMP
40	06533004	4	FLATWASHER,1/2
41	21725	4	HEX NUT,1/2 NC
42	23152	1	PUMP,P350-1-3/4 GEAR
*	**06200709**	**AVAIL.**	**PUMP GUARD KIT,JD5101E**
43	21727	4	NYLOCK NUT,1/2,NC
44	06533004	8	FLATWASHER,1/2,SAE
45	21731	4	CAPSCREW,1/2 x 1-1/2,NC
46	06380034	1	GUARD,PUMP,5101E,LDR
47	06410857	1	MNT,SPPRT,HYDRO
48	21631	2	CAPSCREW,3/8 x 1-1/4,NC
49	22014	1	FLATWASHER,1/4
50	32519	1	WING NUT,1/4-20 UNC

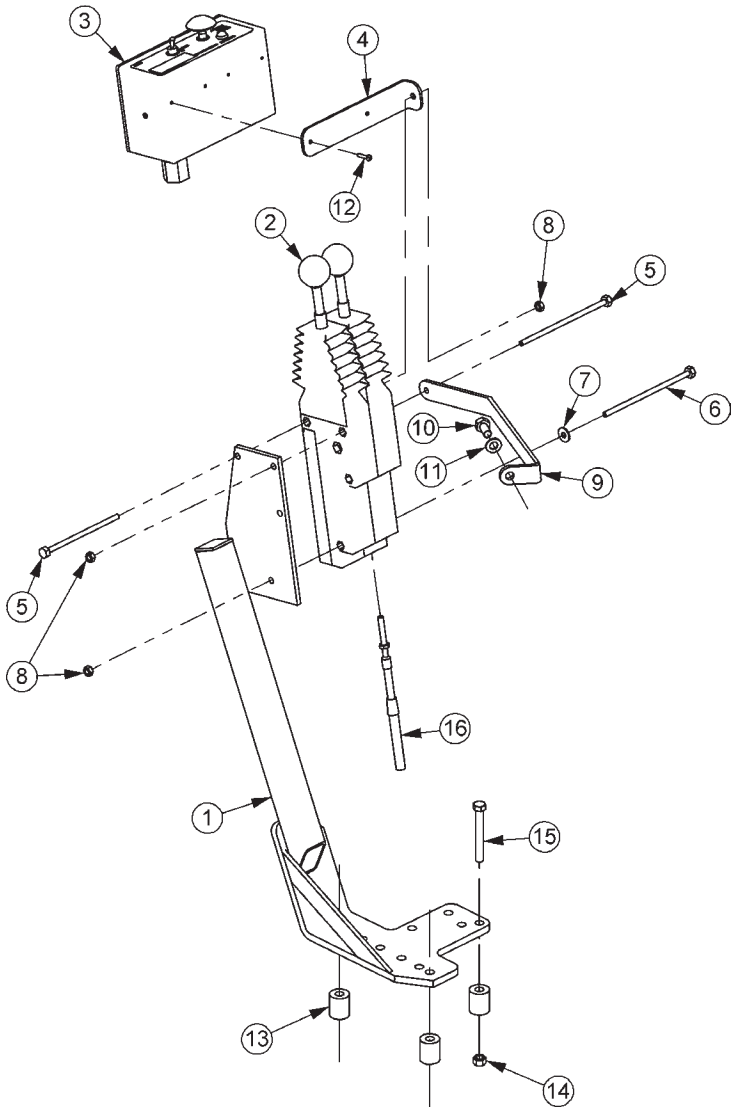
TRACTOR MOUNT KIT - HYDRO, WHEEL WELL TANK



TRACTOR MOUNT KIT - HYDRO, WHEEL WELL TANK

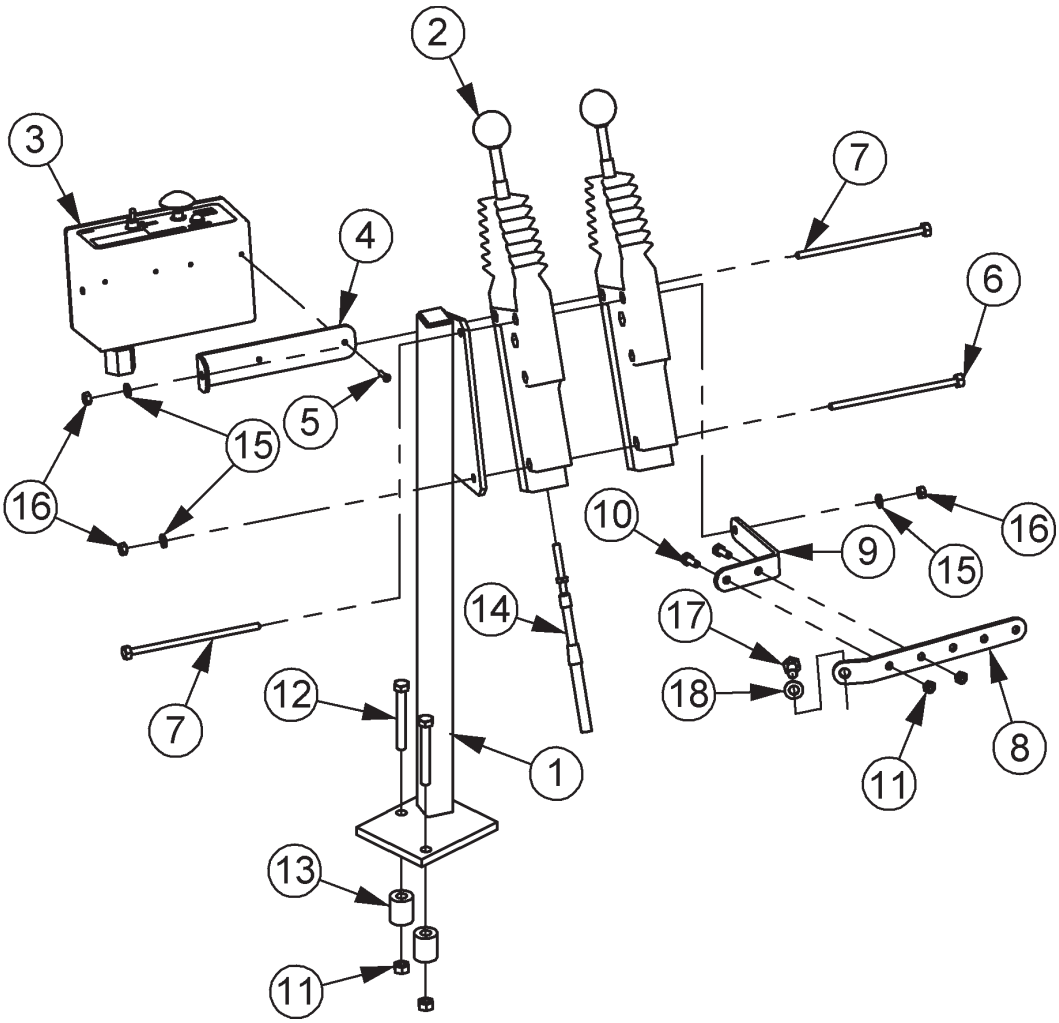
ITEM	PART NO.	QTY.	DESCRIPTION
1	06300033	1	MAIN FRAME
2	*	1	1” HOSE
3	*	1	1” HOSE
4	33555	2	ADAPTER,1MORB x 1MJIC
5	*	REF	**BRAKE VALVE - REFER TO MAIN FRAME PARTS**
6	34117	1	ELBOW,1MORB x 1MORB90
7	06506023	1	HOSE/TUBE,1 x 62”
8	33554	1	ELBOW,1MORB x 1MJIC45
9	22421	1	CAPSCREW,16MM x 40MM
10	34076	1	CLAMP KIT,1”
11	34626	1	TUBE/CLAMP BRACKET
12	30255	1	SPACER
13	TF4852	2	FLANGE KIT,#20
14	06500408	1	HOSE,1-1/2 x 92”
15	32382	1	HOSE BRACKET
16	34710	1	ADAPTER,1-1/2ORB x 1-1/2MJ
17	34309	1	BALL VALVE,1-1/2”
18	06503083	1	ADAPTER,1-1/2ORB x 1-1/2ORB
19	06503084	1	ELBOW,1-1/2FOR x 1-1/2FOR
20	*	REF	**AXLE BRACE,RH - REFER TO MAIN FRAME PARTS**
21	*	REF	**AXLE BRACE,LH - REFER TO MAIN FRAME PARTS**
22	*	REF	**TANK,ASSY - REFER TO MAIN FRAME PARTS**
23	06505077	1	BREATHER CAP,O-RING
24	34064	1	ADAPTER,1-1/4MOR x 1MJIC
25	06500422	1	HOSE,1 x 126”

CABLE CONTROLS - SCV ONLY



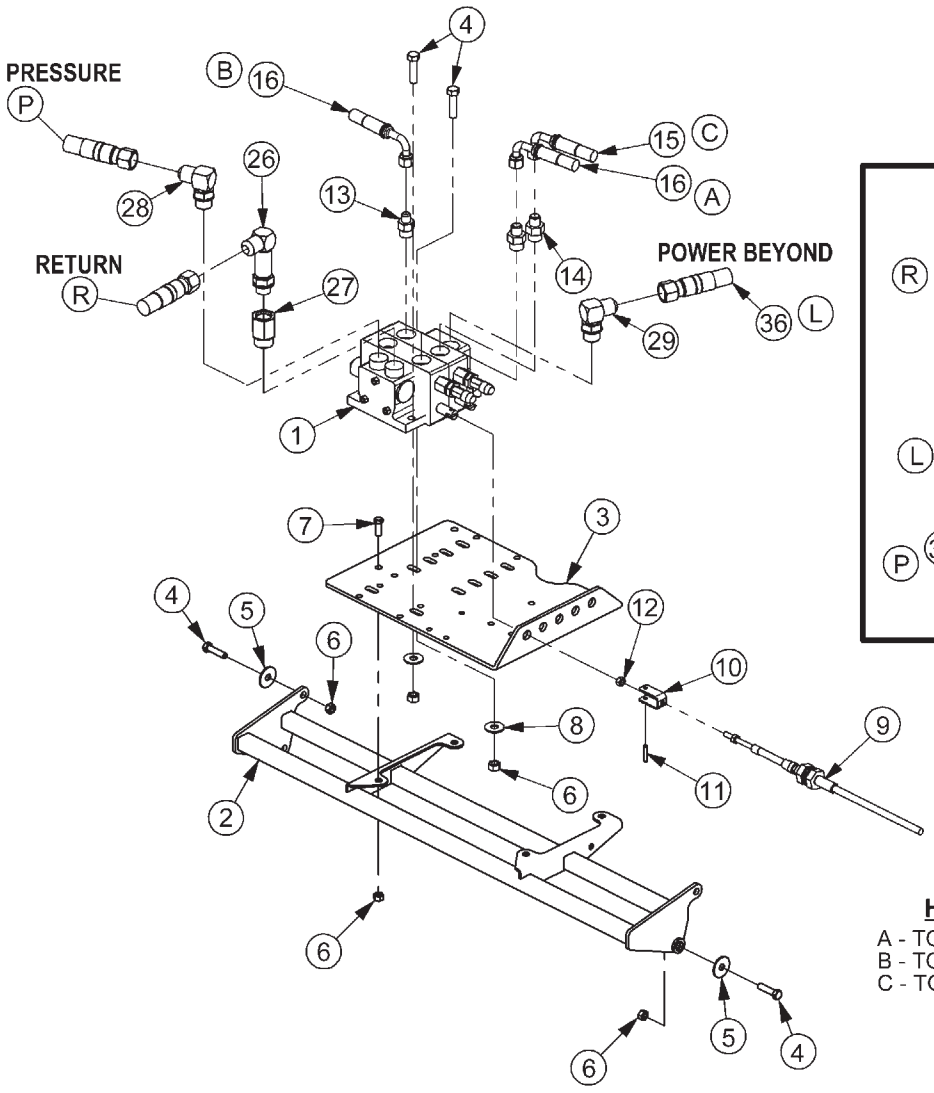
ITEM	PART NO.	QTY.	DESCRIPTION
1	23865B	1	CBL CTRL MT BRK,9030-FD40-JD60
2	6T1251	2	CBL CTRL BOX,180 DEG
3	06510102	1	SWITCHBOX,SIDE
4	34496	1	BRKT,SWITCHBOX,UNI
5	21542	2	CAPSCREW,1/4X 4 NC
6	21543	1	CAPSCREW,1/4 X 4 1/2, NC
7	21986	3	LOCKWASHER,1/4
8	21525	3	HEX NUT,1/4 NC
9	06410230	1	SUPPORT,MNT,CNTRL BOX,JD5525
10	33534	1	CAPSCREW,10MMX20MM(1.5PITCH)
11	32724	1	FLATWASHER,10MM
12	6T3951	2	SCREW,MACHINE 8/32 X 1/2
13	27082B	3	SPACER
14	21627	3	NYLOCK NUT,3/8 NC
15	21636	3	CAPSCREW,3/8 X 2-1/2 NC
16	06505100	2	CBL,CNTRL,108

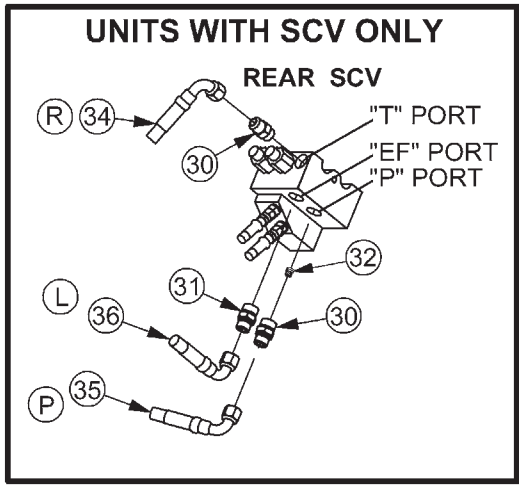
CABLE CONTROLS - WITH MID-MOUNT VALVE



ITEM	PART NO.	QTY.	DESCRIPTION
1	31923	1	BRKT,CTRL,CBL,JD52-5500,CAB,
2	6T1251	2	CBL CTRL BOX,180 DEG
3	06510102	1	SWITCHBOX,SIDE
4	34496	1	BRKT,SWITCHBOX,UNI
5	6T3951	2	SCREW,MACHINE 8/32 X 1/2
6	21543	1	CAPSCREW,1/4 X 4 1/2, NC
7	21542	2	CAPSCREW,1/4X 4 NC
8	06410848	1	SUPPORT,1,CBL,CNTRL,5101E
9	06410849	1	SUPPORT,2,CBL,CNTRL,5101E
10	21629	2	CAPSCREW,3/8 X 3/4 NC
11	21627	4	NYLOCK NUT,3/8 NC
12	21635	2	CAPSCREW,3/8 x 2 1/4,NC,GR8
13	27082B	2	SPACER
14	06505100	2	CBL,CNTRL,108
15	21986	3	LOCKWASHER,1/4
16	21525	3	HEX NUT,1/4 NC
17	33534	1	CAPSCREW,10MMX20MM(1.5PITCH)
18	32724	1	FLATWASHER,10MM

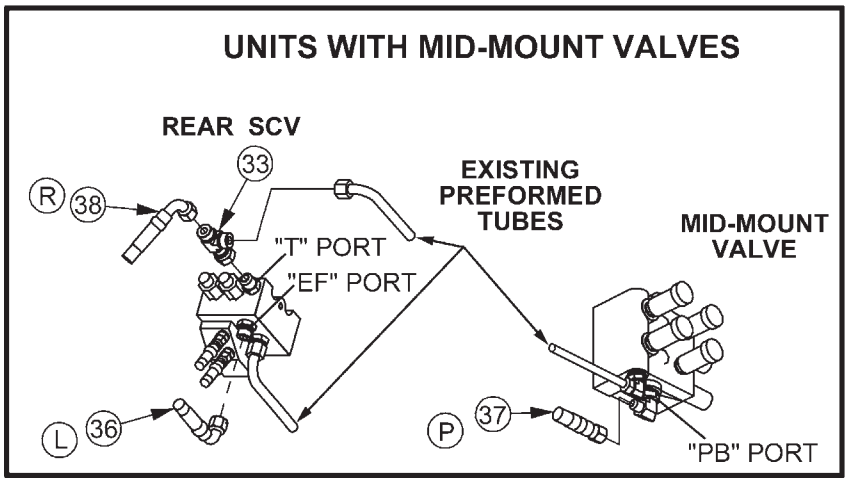
LIFT VALVE - CABLE CONTROL, CAB





HOSE ROUTING

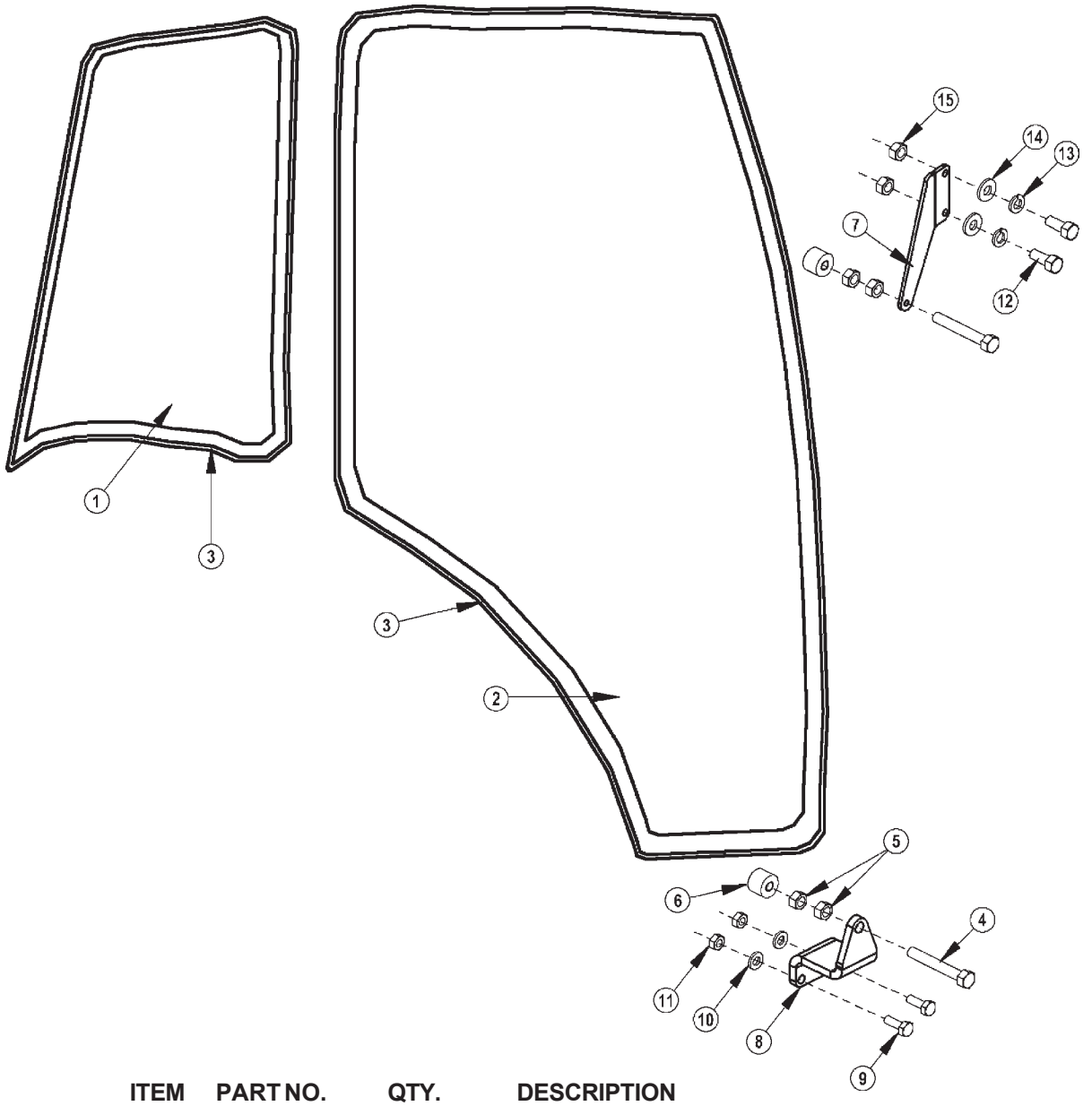
A - TO INBOARD CYLINDER GLAND
B - TO OUTBOARD CYLINDER BUTT
C - TO OUTBOARD CYLINDER GLAND



LIFT VALVE - CABLE CONTROL, CAB

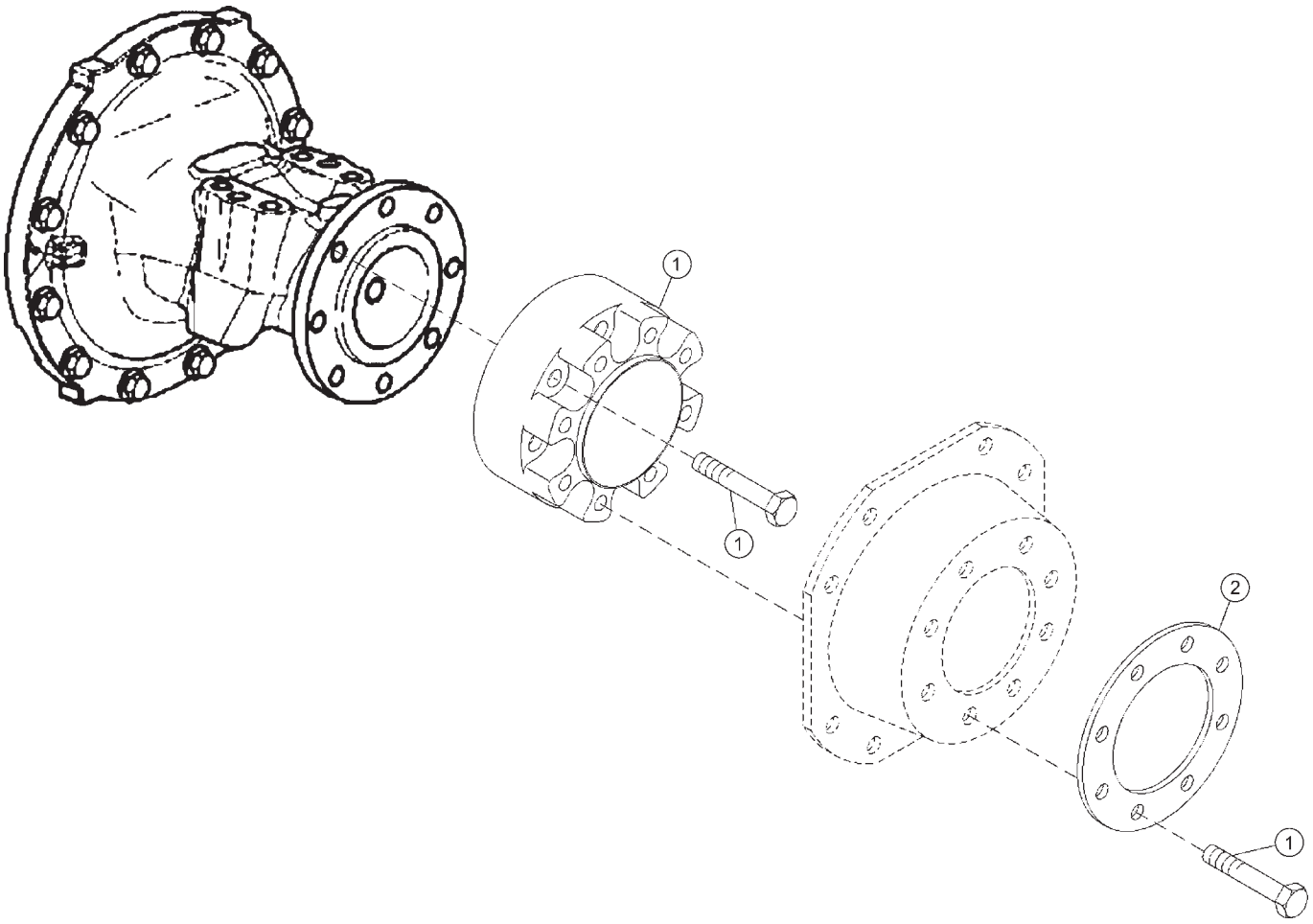
ITEM	PART NO.	QTY.	DESCRIPTION
1	30801	1	VALVE,2SP,HSC
2	06340033	1	VALVE MNT,JD5101E
3	34622	1	PLATE,VALVE,REAR MNT
4	21632	9	CAPSCREW,3/8 X 1-1/2 NC
5	6T2615	4	WASHER,FENDER 3/8
6	21627	13	NYLOCK NUT,3/8 NC
7	21630	4	CAPSCREW,3/8 X 1 NC
8	22016	4	FLATWASHER,3/8
9	06505100	2	CBL,CNTRL,108
10	6T4411	2	CLEVIS,CBL CTRL,3/16
11	6T3017	2	ROLLPIN,3/16 X 1
12	21500	4	HEX NUT,1/4 NF
13	06502036	2	VLV,CHECK,W/.06 ORF,1/2MORx3/8
14	33271	3	ADAPTER,1/2 MOR X 3/8 MJ
15	33745	1	HOSE,#4x100(6FJX90x6FJX)
16	33364	2	HOSE,#4x120(6FJX90x6FJX)
26	33293	1	ELBOW,LONG,1/2MOR X 1/2MJIC 90
27	32678	1	ADAPTER,5/8ORB x 1/2FOR
28	33383	1	ELBOW,5/8MORB X 1/2MJ X 90
29	06503033	1	ELBOW,5/8ORBx5/8MJ
30	33463	2	ADAPTER,22mm ORB x ½MJ
31	34424	1	FITTING,ADAPTER,22MMX5/8MFS
32	31171	1	PLUG,PIPE 3/8 SKT
33	32872	1	SWIVEL NUT RUN TEE
34	33649	1	HOSE,#8x50(8FJX90x8FJX)
35	33595	1	HOSE,#8x65(8FJX90x8FJX)
36	06500399	1	HOSE,#8x41(10FFSX90x10FJX)
37	06500391	1	HOSE,#8x97(12FFSXx8FJX)
38	06500392	1	HOSE,#8x62(10FFSX90x8FJX)

POLYCARBONATE SAFETY WINDOW - 5101E, CAB



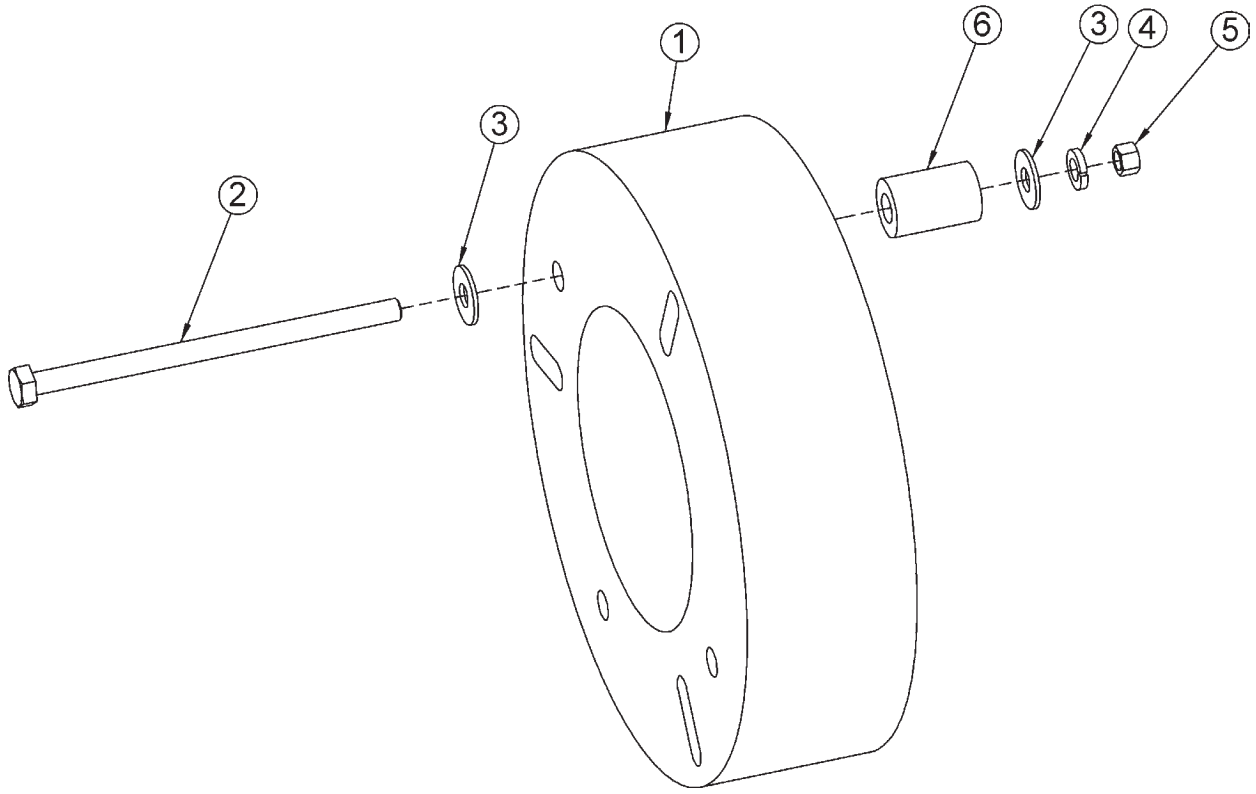
ITEM	PART NO.	QTY.	DESCRIPTION
1	06490014	1	POLYCARB, FRMD, REAR
2	06490013	1	POLYCARB, FRMD, DOOR
3	31965	25'	TRIM SEAL
4	21584	2	CAPSCREW, 5/16" X 2"
5	21575	6	HEX NUT, 5/16" NC
6	33477	2	VIBRATION ISOLATOR
7	06410268	1	TOP BRACKET
8	06410269	1	BOTTOM BRACKET
9	21529	2	CAPSCREW, 1/4" X 3/4" NC
10	21986	2	LOCKWASHER, 1/4"
11	21525	2	HEX NUT, 1/4" NC
12	27508	2	CAPSCREW, 8MMX20MM(1.25)
13	6T2619	2	LOCKWASHER, 8MM
14	34948	2	WASHER, 8MM
15	*	2	HEX NUT (EXISTING HARDWARE)
	06537005	1	3M ADHESIVE

WHEEL SPACER



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

WHEEL WEIGHT ASSEMBLY

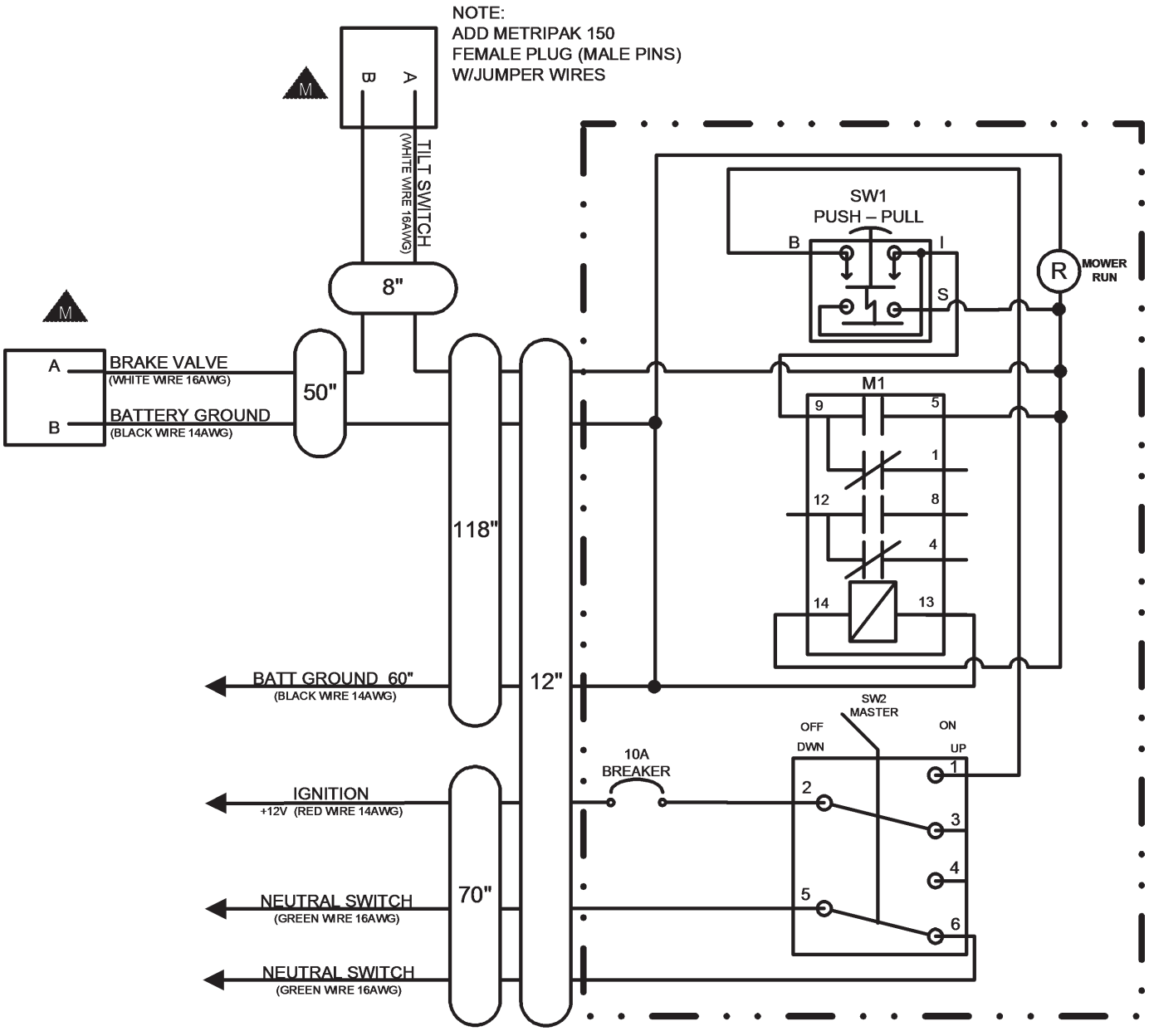


ITEM	PART NO.	QTY.	DESCRIPTION
1	30687	1	500# WHEEL WEIGHT
2	21956	4	CAPSCREW, 3/4 X 13
3	33626	8	FLATWASHER, 3/4, GR8
4	21993	4	LOCKWASHER, 3/4
5	21825	4	HEX NUT - 3/4
5	TB3278	4	SPACER

HUSCO SWITCH BOX SCHEMATIC (06510102)

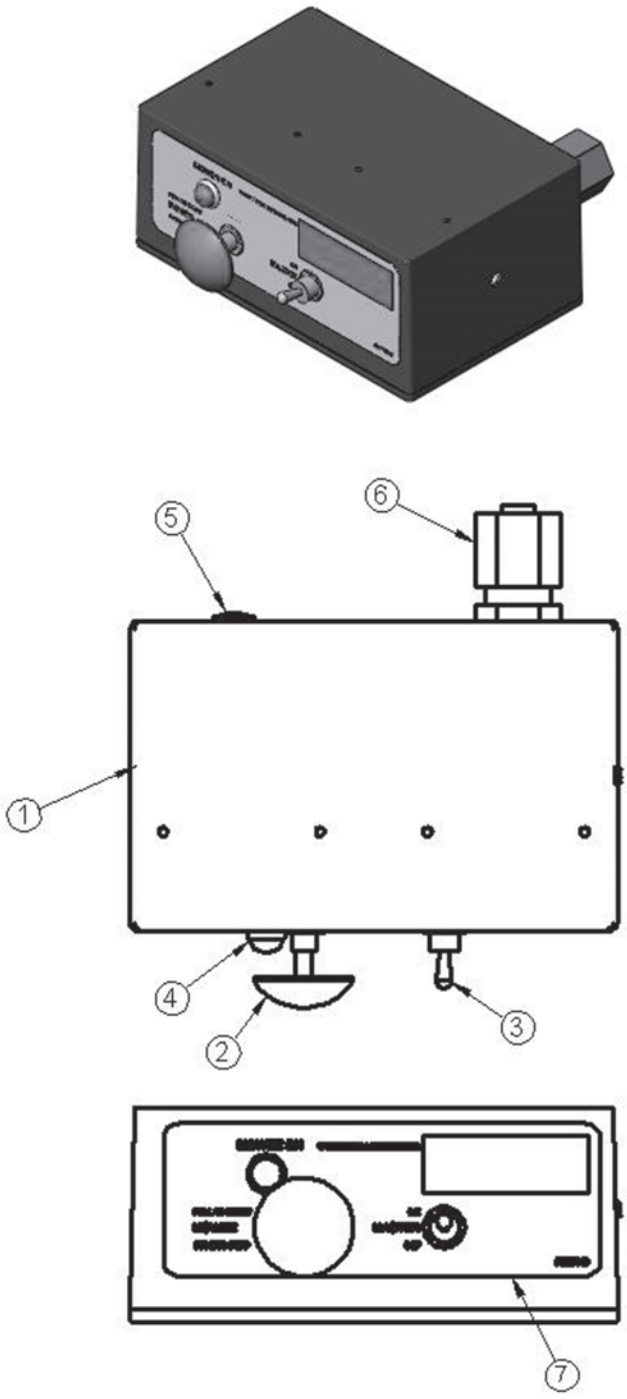
06510102 SCHEMATIC

COMMON GROUND SWITCH BOX
SIDE MOWER



SEE DRAWING # 06515000 FOR A FULL DESCRIPTION OF ALL CONNECTORS

HUSCO SWITCH BOX SCHEMATIC (**06510102**)



ITEM	PART NO.	QTY.	DESCRIPTION
1	06514013	1	SWBX,ALUM,BLK,06510102
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	6T3923	1	INDICTATOR LIGHT,ON,RED
5	06514014	1	BREAKER,10A,SWBX
6	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
7	06550018	1	DECAL,SWTCHBX,TM/TSF,CG

COMMON PARTS SECTION

TABLE OF CONTENTS

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.

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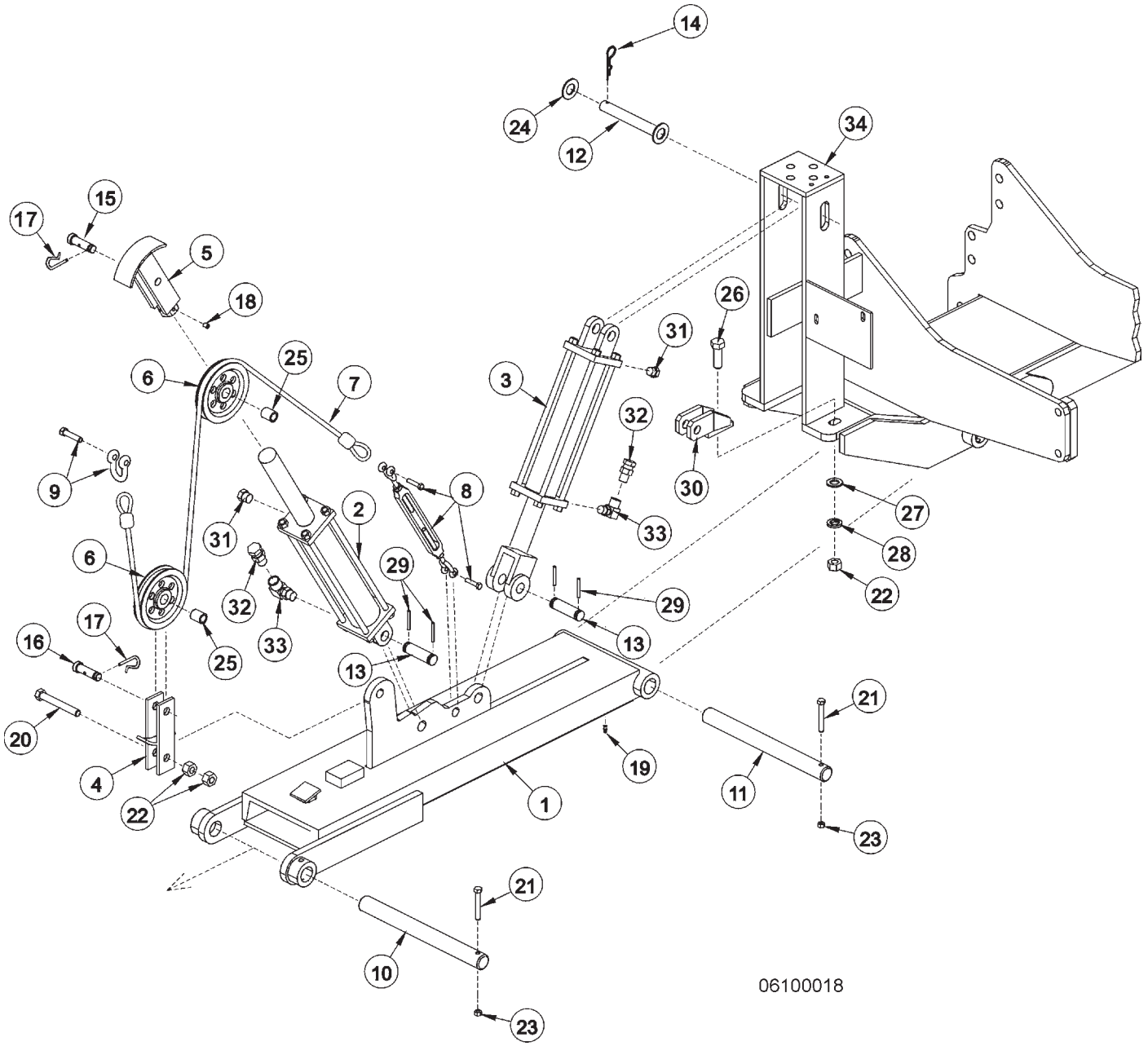
For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

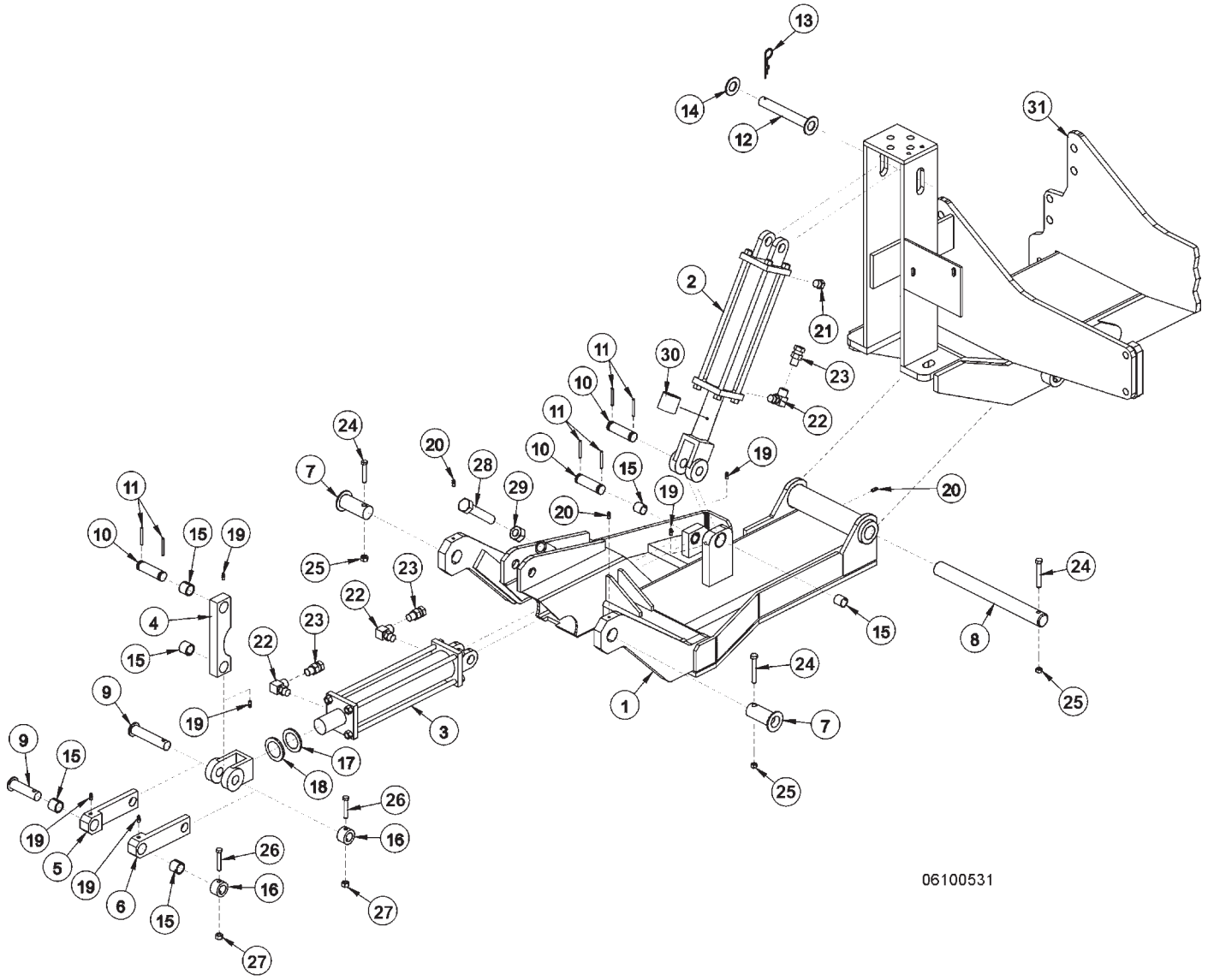
CABLE LIFT ASSEMBLY



CABLE LIFT ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0103A	1	DRAFT BEAM (STD 25 LB, 45 3/8")
	6T0103E	OPT.	DRAFT BEAM (EXTENDED 6" 4WD)
	6T0103L	OPT.	DRAFT BEAM (EXTENDED 15")
	6T0105	OPT.	DRAFT BEAM (STD WITH TRAVEL LOCK)
	6T0108	OPT.	DRAFT BEAM (30 LB CHANNEL, 45 3/8")
2	6T0150	1	CYLINDER 3" X 18"
3	6T0151R	1	CYLINDER 3" X 10"
4	6T0100	1	LOWER SHEAVE BRACKET
5	6T0101	1	UPPER SHEAVE BRACKET
6	33768	2	SHEAVE
7	6T0110	1	LIFT CABLE (STD 1/2" X 87 1/2")
	6T0110E	OPT.	LIFT CABLE (EXTENDED 6" 4WD)
	6T0110L	OPT.	LIFT CABLE (EXTENDED 15")
8	6T0115	1	TURN BUCKLE
9	6T0112	1	SHACKLE WITH PIN
10	6T2999	1	OUTER DRAFT BEAM PIN 1 1/2" X 14 1/2"
11	6T3001	1	INNER DRAFT BEAM PIN 1 1/2" X 15 3/4"
12	6T3005	1	PIN ,1" W/ CAP
13	TB1033	2	CLEVIS PIN 1" X 4"
14	6T3004	1	R - CLIP 3/16"
15	6T3010	1	UPPER SHEAVE PIN WITH ZERK 3/4" X 3"
16	6T3009	1	LOWER SHEAVE PIN WITH ZERK 3/4" X 2 1/2"
17	6T3020	2	R - CLIP 5/32"
18	6T2272	1	SET SCREW 3/8" X 1/2"
19	6T3211	1	GREASE ZERK 1/8" STRAIGHT
20	21836	1	CAPSCREW 3/4" X 3"
21	21688	2	CAPSCREW 7/16" X 3 1/4"
22	21825	2	HEX NUT 3/4"
23	21677	2	NYLOCK NUT 7/16"
24	22023	1	FLAT WASHER 1"
25	6T0104N	2	SHEAVE PIN BUSHING 1" OD X 3/4" ID
26	21833	1	CAPSCREW 3/4" X 2 1/4"
27	22021	1	FLAT WASHER 3/4"
28	21993	1	LOCK WASHER 3/4"
29	06537021	4	ROLL PIN
30	6T0106	1	TRAVEL LOCK BRACKET
31	6T4258	1	BREATHER 1/2"
32	34396	2	RESTRICTOR
33	34244	2	ELBOW FITTING 1/2"
34	*	REF.	MAIN FRAME REFER TO TRACTOR PARTS SECTION

COMBO DRAFT BEAM



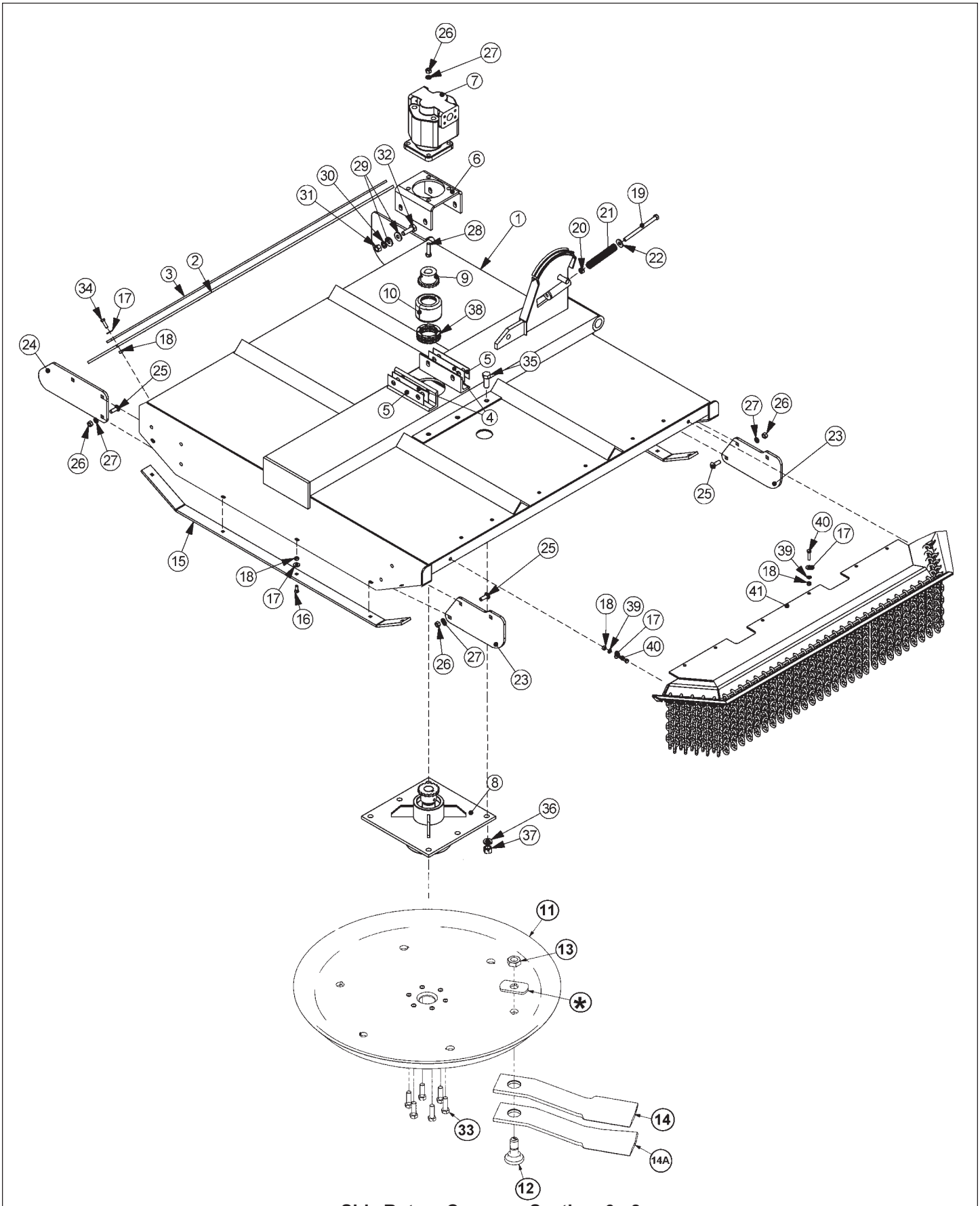
COMBO DRAFT BEAM

ITEM	PART NO.	QTY.	DESCRIPTION
1	06350001	1	COMBO DRAFT BEAM - STD DTY ROTARY
	31063	OPT.	COMBO DRAFT BEAM - HVY DTY ROTARY
2	6T0151R	1	HYD. CYLINDER 3" X 10"
3	32215	1	HYD. CYLINDER 3" X 12" - STD DTY
	25343	REF	HYD. CYLINDER 3" X 12" - HVY DTY
4	TF4500A	1	PIVOT ARM
5	TF4507B	1	RIGHT LINKAGE ARM
6	TF4506B	1	LEFT LINKAGE ARM
7	30126B	2	PIN, HEAD PIVOT - STD DTY
	TF4514A	REF	PIN, HEAD PIVOT - HVY DTY
8	6T3001	1	PIN, BEAM PIVOT
9	TF4519	2	PIN, LINKAGE
10	TB1033	3	PIN, CLEVIS
11	06537021	6	ROLLPIN
12	6T3005	1	PIN,1" W/ CAP
13	6T3004	1	R-CLIP HAIRPIN
14	6T2614	1	FLATWASHER 1"
15	TB3010	8	BUSHING 1"
16	22847	2	BOSS, LINKAGE PIN
17	22076	1	SPACER, HYD. CYLINDER 1/4"
18	22077	1	SPACER, HYD. CYLINDER 5/16"
19	6T3207	6	GREASE ZERK 1/4"
20	6T3211	3	GREASE ZERK 1/8"
21	6T4258	1	BREATHER 1/2"
22	34244	3	ELBOW FITTING 1/2"
23	34396	3	SWIVEL RESTRICTOR
24	21688	3	CAPSCREW 7/16" X 3 1/4"
25	21675	3	HEX NUT 7/16"
26	21635	2	CAPSCREW 3/8" X 2 1/4"
27	21625	2	HEX NUT 3/8"
28	21831	1	CAPSCREW 3/4" X 1 3/4"
29	21825	1	HEX NUT 3/4"
30	06700095	1	CYLINDER SPACER W/SET SCREW
31	*	REF	REFER TO MAIN FRAME

NOTES:

1. **ITEM 30 IS USED ON THE GLAND END OF ITEM 2 (AS NEEDED)**
2. **ORIENTATION OF ITEM 4 IS CRITICAL**

60” SIDE CABLE ROTARY MOWER

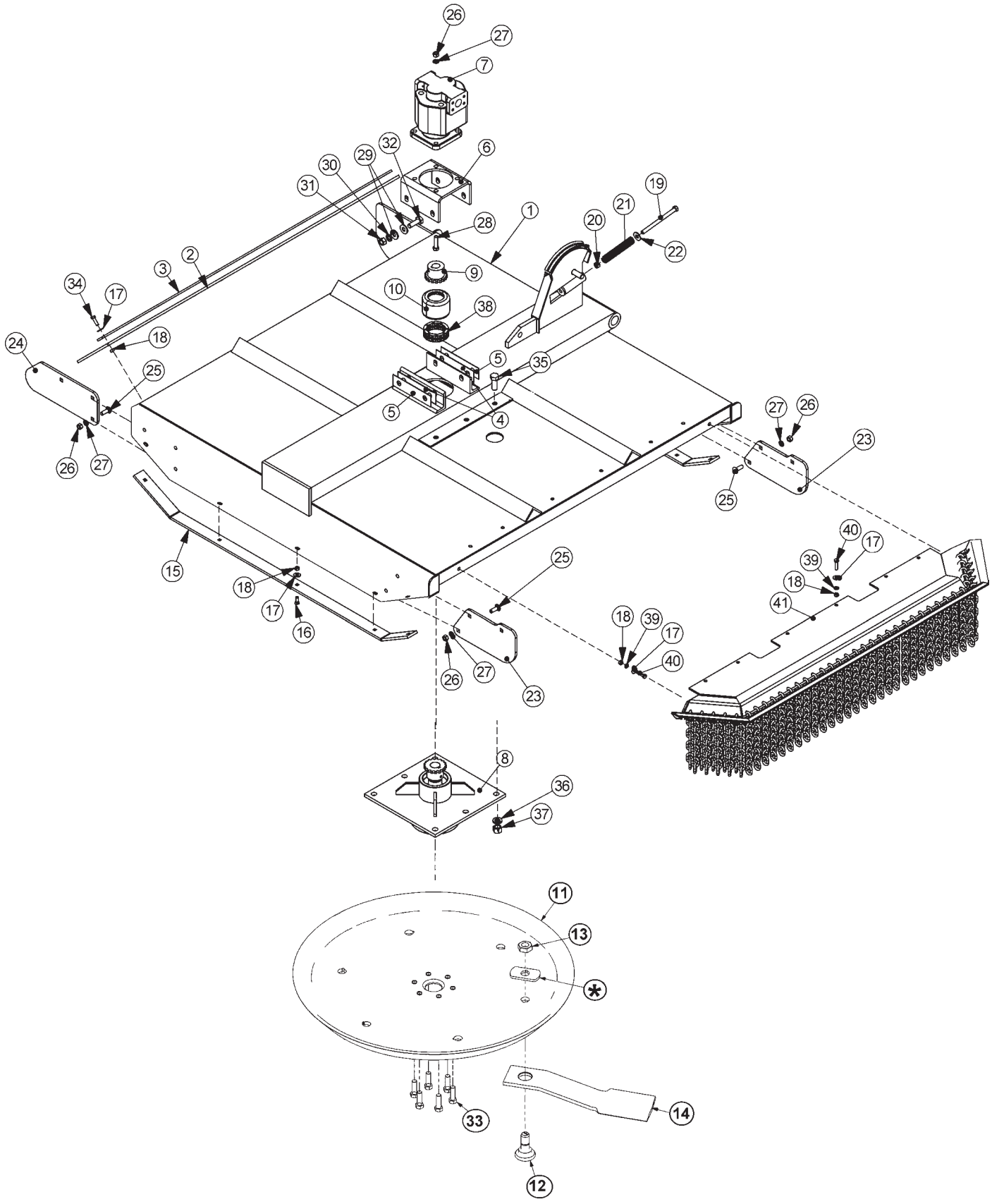


Side Rotary Common Section 6 - 8

60” SIDE CABLE ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	32099	1	RTRY, 60" WELDMENT, 1/4" DECK
	21225B	1	RTRY, 72” WELDMENT, 1/4” DECK
2	22592	1	FLAP, DEFLECTOR, TM60
3	6T0823	1	BAR, FLAP, TM60
4	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
5	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
6	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
7	**06504011**	**1**	**CURRENT MOTOR,(M365-2 1/4" GEAR)**
	23172	1	ORIGINAL MOTOR,(M365-2 1/4" GEAR)
8	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
9	21223	1	SPROKET, 1-1/4" BORE
10	6T1033	1	COVER, COUPLING
11	SEE NEW ROTARY KNIVES AND DISKS PAGE		
12	SEE NEW ROTARY KNIVES AND DISKS PAGE		
13	SEE NEW ROTARY KNIVES AND DISKS PAGE		
14	SEE NEW ROTARY KNIVES AND DISKS PAGE		
14A	SEE NEW ROTARY KNIVES AND DISKS PAGE		
*	SEE NEW ROTARY KNIVES AND DISKS PAGE		
15	6T0820H	2	SKID SHOE, TM60, HEAVY DUTY
16	6T2270	10	PLOW BOLT,3/8" X 1" NC
17	22016	29	FLATWASHER,3/8"
18	21625	29	HEX NUT,3/8",NC
19	21745	1	CAPSCREW, 1/2 x 7,NC
20	21727	1	NYLOCK NUT, 1/2
21	27005	1	SPRING, PUSHOFF, SIDE RTRY
22	22018	1	FLATWASHER,1/2",WIDE
23	33655	2	PLATE,GAURD,SAFETY,FRONT, RTRY
24	33656	1	PLATE,GUARD,SAFETY,REAR,RTRY
25	6T2267	9	CARRIAGE BOLT, 1/2" x 2" NF, GR8
26	21725	13	HEX NUT, 1/2" NC
27	21990	13	LOCKWASHER, 1/2"
28	21733	4	CAPSCREW, 1/2 x 2,NC
29	25270	8	FLATWASHER,5/8", GR 8
30	21992	10	LOCKWASHER, 5/8
31	21775	4	HEX NUT, 5/8
32	21783	4	CAPSCREW, 5/8 x 2,NC
33	6T2290	6	CAPSCREW,5/8x2,NF GR 8
34	21631	11	CAPSCREW, 3/8" x 1-1/4" NC
35	6T2277	6	CAPSCREW, 3/4" x 2" NF
36	21993	6	LOCKWASHER,3/4",GR 8
37	6T2413	6	HEX NUT,3/4,NF,GR 8
38	6T1029	1	CHAIN, COUPLING
39	21988	8	LOCKWASHER, 3/8"
40	21632	8	CAPSCREW,3/8" X 1-1/2" NC
41	31773	1	GAURD,CHAIN,FRONT,SR60

72” SIDE CABLE ROTARY MOWER

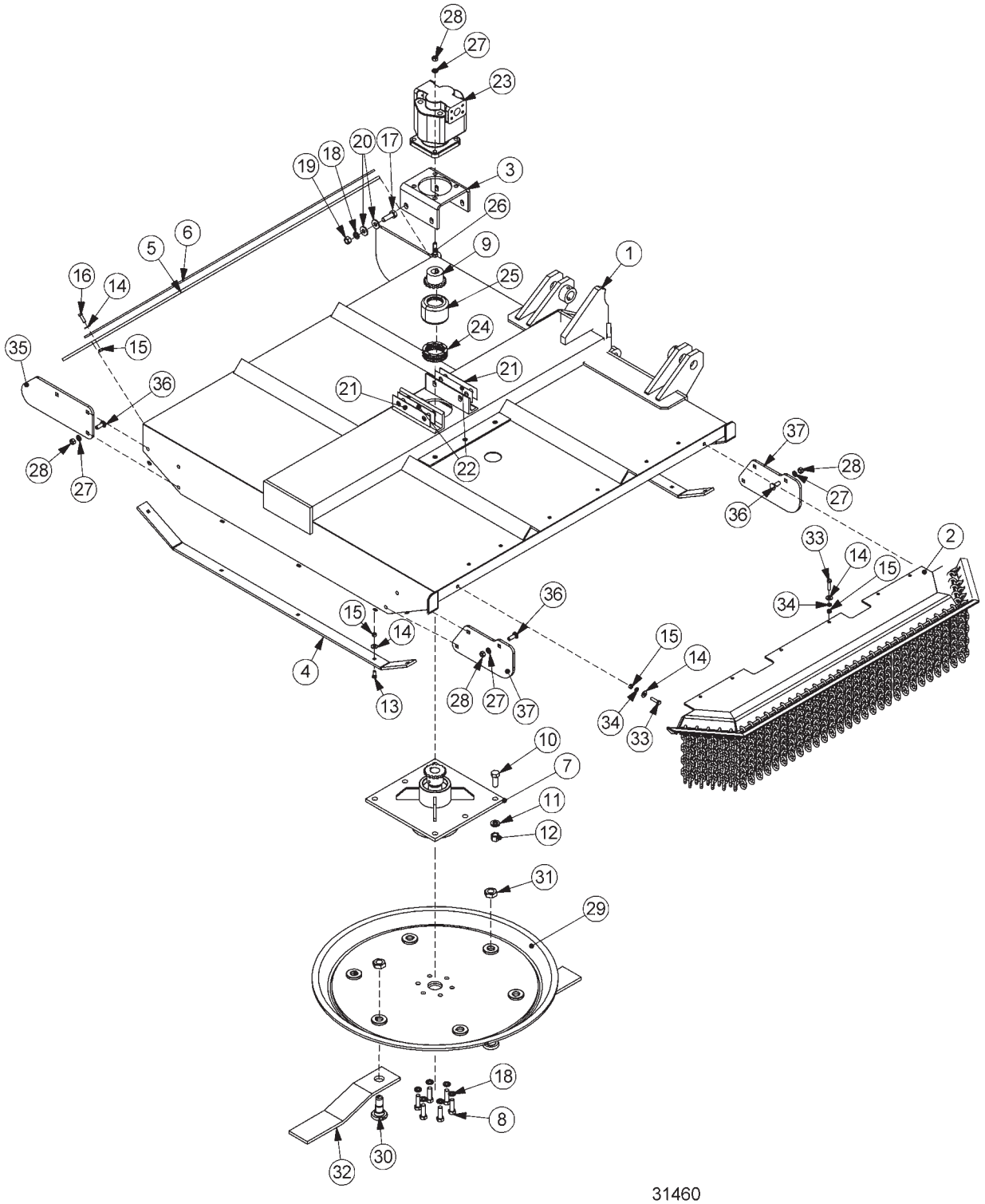


Side Rotary Common Section 6 - 10

72” SIDE CABLE ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	21225B	1	RTRY, 72” WELDMENT, 1/4” DECK
2	21295B	1	FLAP, DEFLECTOR, TM72
3	21242A	1	BAR, FLAP, TM72
4	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
5	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
6	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
7	**06504018**	**1**	**CURRENT MOTOR,(M365-2 1/2" GEAR)**
	21222	1	ORIGINAL MOTOR,(M365-2 1/2" GEAR)
8	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
9	21223	1	SPROKET, 1-1/4" BORE
10	6T1033	1	COVER, COUPLING
11	SEE NEW ROTARY KNIVES AND DISKS PAGE		
12	SEE NEW ROTARY KNIVES AND DISKS PAGE		
13	SEE NEW ROTARY KNIVES AND DISKS PAGE		
14	SEE NEW ROTARY KNIVES AND DISKS PAGE		
*	SEE NEW ROTARY KNIVES AND DISKS PAGE		
15	21248	2	SKID SHOE, TM72
16	6T2270	10	PLOW BOLT,3/8" X 1" NC
17	22016	29	FLATWASHER,3/8"
18	21625	29	HEX NUT,3/8",NC
19	21745	1	CAPSCREW, 1/2 x 7,NC
20	21727	1	NYLOCK NUT, 1/2
21	27005	1	SPRING, PUSHOFF, SIDE RTRY
22	22018	1	FLATWASHER,1/2",WIDE
23	33655	2	PLATE,GAURD,SAFETY,FRONT, RTRY
24	33656	1	PLATE,GUARD,SAFETY,REAR,RTRY
25	6T2267	9	CARRIAGE BOLT, 1/2" x 2" NF, GR8
26	21725	13	HEX NUT, 1/2" NC
27	21990	13	LOCKWASHER, 1/2"
28	21733	4	CAPSCREW, 1/2 x 2,NC
29	25270	8	FLATWASHER,5/8", GR 8
30	21992	10	LOCKWASHER, 5/8
31	21775	4	HEX NUT, 5/8
32	21783	4	CAPSCREW, 5/8 x 2,NC
33	6T2290	6	CAPSCREW,5/8x2,NF GR 8
34	21631	11	CAPSCREW, 3/8" x 1-1/4" NC
35	6T2277	6	CAPSCREW, 3/4" x 2" NF
36	21993	6	LOCKWASHER,3/4",GR 8
37	6T2413	6	HEX NUT,3/4,NF,GR 8
38	6T1029	1	CHAIN, COUPLING
39	21988	8	LOCKWASHER, 3/8"
40	21632	8	CAPSCREW,3/8" X 1-1/2" NC
41	31931	1	GAURD,CHAIN,FRONT,SR72

60” SIDE COMBO ROTARY MOWER

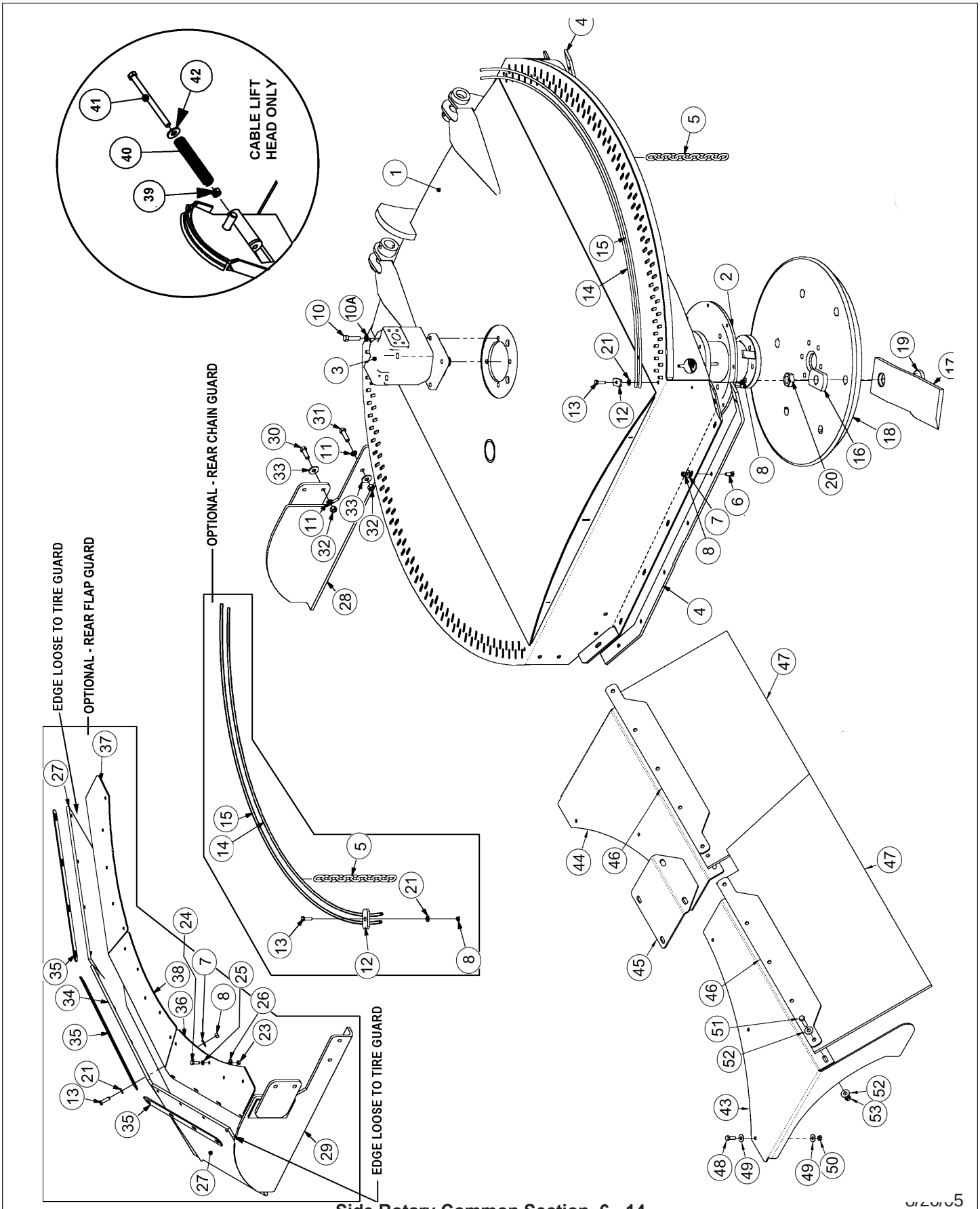


31460

60” SIDE COMBO ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	32617	1	RTRY, 60" DECK, COMBO - SDT DUTY
	30188D	1	RTRY, 60” DECK, COMBO - HEAVY DUTY
2	31773	1	GAURD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	6T0820H	2	SKID SHOE, TM60, HEAVY DUTY
5	22592	1	FLAP, DEFLECTOR, TM60
6	6T0823	1	BAR, FLAP, TM60
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
8	6T2290	6	CAPSCREW,5/8x2,NF GR 8
9	21223	1	SPROKET, 1-1/4" BORE
10	6T2277	6	CAPSCREW, 3/4" x 2" NF
11	21993	6	LOCKWASHER,3/4",GR 8
12	6T2413	6	HEX NUT,3/4,NF,GR 8
13	6T2270	10	PLOW BOLT,3/8" X 1" NC
14	22016	29	FLATWASHER,3/8"
15	21625	29	HEX NUT,3/8",NC
16	21631	11	CAPSCREW, 3/8" x 1-1/4" NC
17	21783	4	CAPSCREW, 5/8 x 2,NC
18	21992	10	LOCKWASHER, 5/8
19	21775	4	HEX NUT, 5/8
20	25270	8	FLATWASHER,5/8", GR 8
21	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
22	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
23	**06504011**	**1**	**CURRENT MOTOR,(M365-2 1/4" GEAR)**
	23172	1	ORIGINAL MOTOR,(M365-2 1/4" GEAR)
24	6T1029	1	CHAIN, COUPLING
25	6T1033	1	COVER, COUPLING
26	21733	4	CAPSCREW, 1/2 x 2,NC
27	21990	13	LOCKWASHER, 1/2"
28	21725	13	HEX NUT, 1/2" NC
29	SEE OLD ROTARY KNIVES AND DISKS PAGE		
30	SEE OLD ROTARY KNIVES AND DISKS PAGE		
31	SEE OLD ROTARY KNIVES AND DISKS PAGE		
32	SEE OLD ROTARY KNIVES AND DISKS PAGE		
33	21632	8	CAPSCREW,3/8" X 1-1/2" NC
34	21988	8	LOCKWASHER, 3/8"
35	33656	1	PLATE,GUARD,SAFETY,REAR,RTRY
36	6T2267	9	CARRIAGE BOLT, 1/2" x 2" NF, GR8
37	33655	2	PLATE,GAURD,SAFETY,FRONT, RTRY

60” SIDE ROTARY MOWER

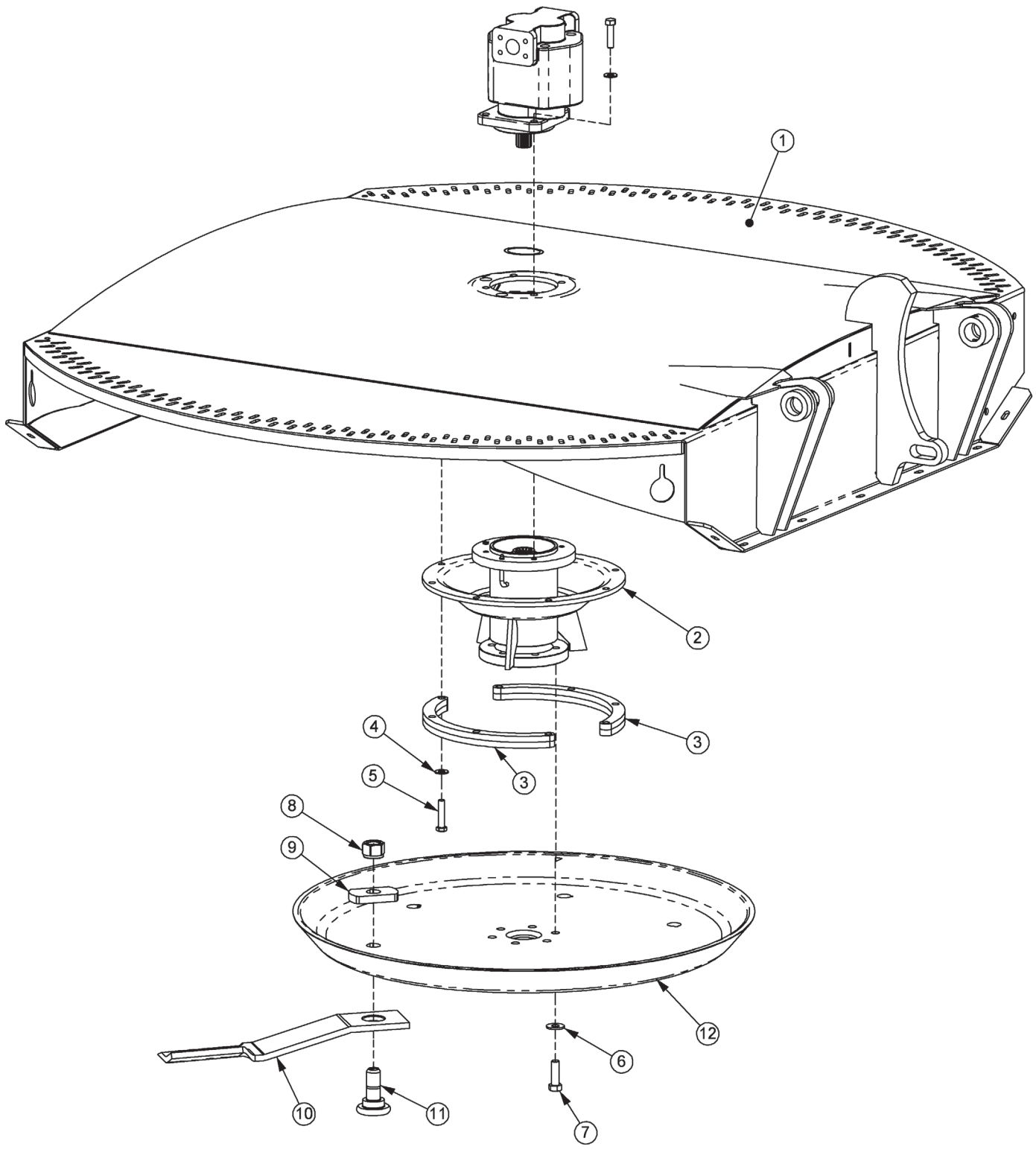


60” SIDE ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	34975	1	HEAVY DUTY GRASSKAT COMBO
	06320005	1	STD DUTY GRASSKAT **COMBO**
	06320008	1	HEAVY DUTY GRASSKAT CABLE
2	34980	1	SPINDLE ASSY,TM 60"
3	**06504016**	**1**	**CURRENT MOTOR,(M365-1 1/4" 14-SPLINE)**
	34981	1	ORIGINAL MOTOR,(M365-1 1/4" 14-SPLINE)
4	06410254	2	SKID,OUTBOARD,TM60
5	22992	*156	CHAIN,10 LINK
6	6T2270	14	PLOW BOLT,3/8" X 1" NC
7	22016	*26	FLATWASHER,3/8"
8	21625	*30	HEX NUT,3/8",NC
10	6T1025	4	CAPSCREW, 1/2 x 2,GR 8,NC
10A	06533006	4	FLATWASHER,1/2,SAE,GR 8
11	21990	*8	LOCKWASHER, 1/2"
12	34972	*4	PLATE,CAP,CHAIN
13	21631	*16	CAPSCREW, 3/8 x 1-1/4,NC
14	34974	*2	ROD,CHAIN,INNER,TM60
15	34973	*2	ROD,CHAIN,OUTER,TM60
16 - 20	SEE NEW ROTARY KNIVES AND DISKS PAGE		
21	21988	*16	LOCKWASHER, 3/8"
22	6T2290	6	CAPSCREW, 5/8x 1-3/4 (NOT SHOWN)
23	21575	*25	HEX NUT, 5/16”,NC
24	21580	*25	CAPSCREW, 5/16” x 1” NC
25	21987	*25	LOCKWASHER, 5/16”
26	22015	*25	FLATWASHER, 5/16”
27	06520084	*2	ROTARY SIDE FLAP
28	06370029	1	TIRE GUARD, LEFT
29	06370030	*1	TIRE GUARD, RIGHT
30	21731	*4	CAPSCREW, 1/2” x 1-1/2” NC
31	21732	*4	CAPSCREW, 1/2” x 1-3/4” NC
32	21725	*8	HEX NUT, 1/2”,NC
33	22018	*8	FLATWASHER, 1/2”,WIDE
34	06520085	*1	ROTARY CENTER FLAP
35	06400207	*3	ROTARY FLAP STRAP
36	06410207	*1	FLAP MOUNT, RIGHT
37	06410206	*1	FLAP MOUNT, LEFT
38	06410208	*1	FLAP MOUNT, CENTER
	CABLE LIFT HEAD ONLY		
39	21745	1	NYLOCK NUT, 1/2
40	21727	1	SPRING, PUSHOFF, SIDE RTRY
41	27005	1	CAPSCREW, 1/2 x 7,NC
42	22018	1	FLATWASHER,1/2",WIDE
	OPTIONAL SQUARE FLAP		
43	06410946	1	MNT,FLAP,LH,EXT,TSR
44	06410947	1	MNT,FLAP,RH,EXT,TSR
45	06410948	1	COVER,FLAP,EXT,TSR
46	06401184	2	STRAP,FLAP,EXT,TSR
47	06520331	2	FLAP,EXT,TSR
48	21580	6	CAPSCREW,5/16 X 1 NC
49	22015	12	FLATWASHER,5/16
50	21575	6	HEX NUT, 5/16,NC
51	21632	10	CAPSCREW,3/8" X 1-1/2" NC
52	22016	20	FLATWASHER,3/8",GR8
53	21625	10	HEX NUT,3/8",NC

* QUANTITY VARIES - REAR CHAIN GUARD & REAR FLAP GUARD IS OPTIONAL.
STANDARD UNIT COMES WITH FRONT CHAINS AND LEFT TIRE GUARD

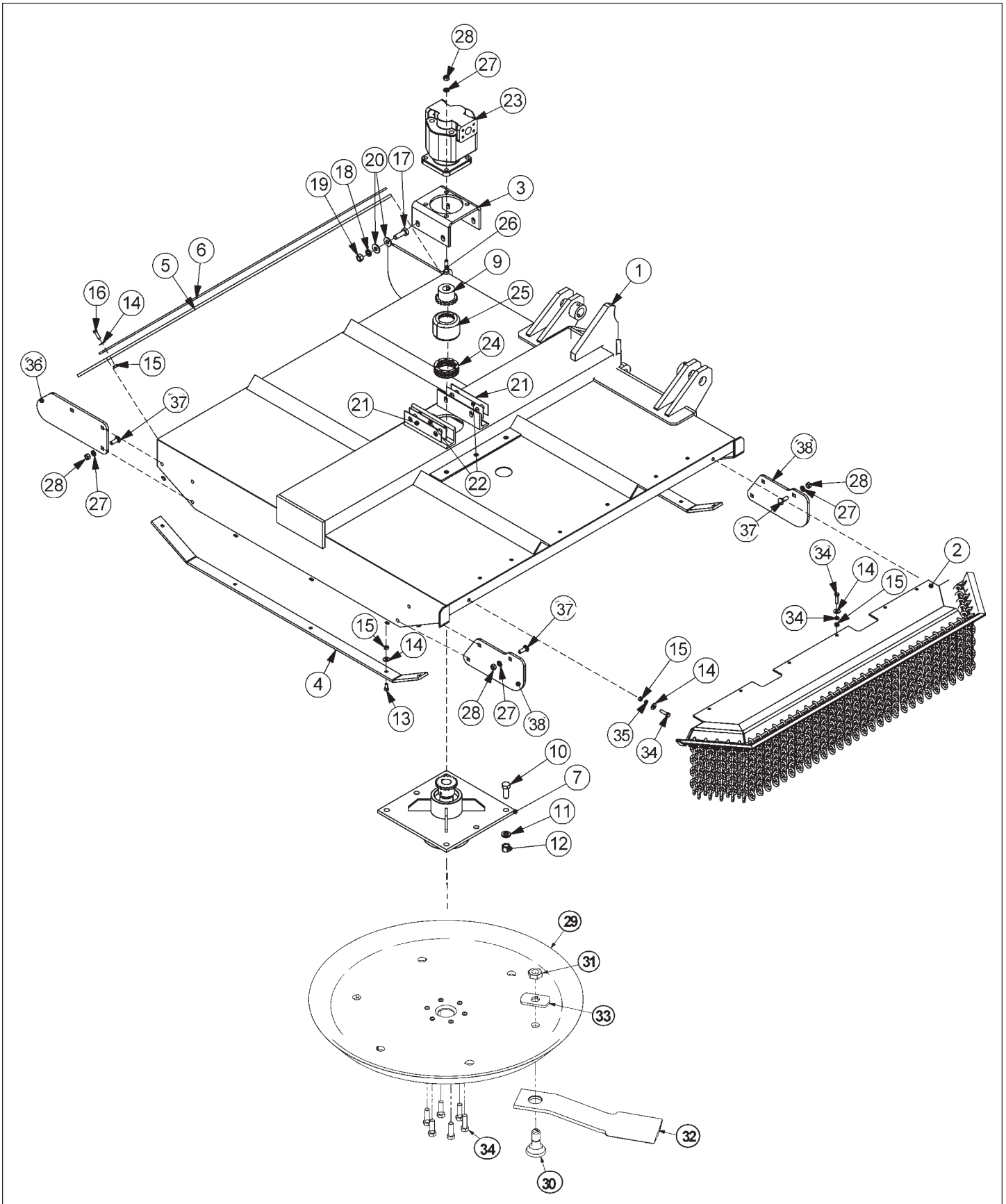
60” SIDE ROTARY SPINDLE AND SPACER



60” SIDE ROTARY SPINDLE AND SPACER

ITEM	PART NO.	QTY.	DESCRIPTION
1	34975	1	HEAVY DUTY GRASSKAT COMBO
	06320005	1	STD DUTY GRASSKAT COMBO
	06320008	1	HEAVY DUTY GRASSKAT CABLE
2	34980	1	SPINDLE ASSY,TM 60"
3	06320011	2	SPACER,TSR,SPINDLE
4	06533004	8	FLATWASHER,1/2,SAE,GR 8
5	06530221	8	CAPSCREW, 1/2 x 2-1/4,NF GR 8
6	25270	6	FLATWASHER,5/8,USS,GR8
7	6T2290	6	CAPSCREW,5/8 x 2,NF GR8
8	SEE NEW ROTARY KNIVES AND DISKS PAGE		
9	SEE NEW ROTARY KNIVES AND DISKS PAGE		
10	SEE NEW ROTARY KNIVES AND DISKS PAGE		
11	SEE NEW ROTARY KNIVES AND DISKS PAGE		
12	SEE NEW ROTARY KNIVES AND DISKS PAGE		

72” SIDE COMBO ROTARY MOWER

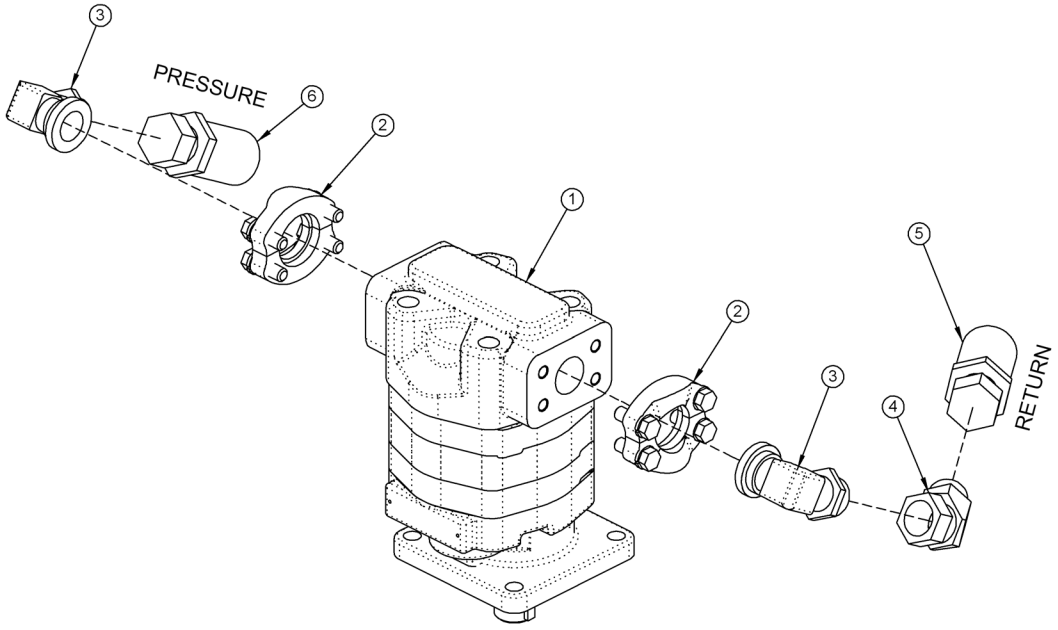


Side Rotary Common Section 6 - 18

72” SIDE COMBO ROTARY MOWER

ITEM	PART NO.	QTY.	DESCRIPTION
1	34260	1	RTRY, 72" DECK, COMBO - SDT DUTY
	31408A	1	RTRY, 72” DECK, COMBO - HEAVY DUTY
2	31931	1	GAURD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	21248	2	SKID SHOE, TM72
5	21295B	1	FLAP, DEFLECTOR, TM72
6	21242A	1	BAR, FLAP, TM72
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
8	6T2290	6	CAPSCREW,5/8x2,NF GR 8
9	21223	1	SPROKET, 1-1/4" BORE
10	6T2277	6	CAPSCREW, 3/4" x 2" NF
11	21993	6	LOCKWASHER,3/4",GR 8
12	6T2413	6	HEX NUT,3/4,NF,GR 8
13	6T2270	10	PLOW BOLT,3/8" X 1" NC
14	22016	29	FLATWASHER,3/8"
15	21625	29	HEX NUT,3/8",NC
16	21631	11	CAPSCREW, 3/8" x 1-1/4" NC
17	21783	4	CAPSCREW, 5/8 x 2,NC
18	21992	10	LOCKWASHER, 5/8
19	21775	4	HEX NUT, 5/8
20	25270	8	FLATWASHER,5/8", GR 8
21	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
22	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
23	**06504018**	**1**	**CURRENT MOTOR,(M365-2 1/2" GEAR)**
	21222	1	ORIGINAL MOTOR,(M365-2 1/2" GEAR)
24	6T1029	1	CHAIN, COUPLING
25	6T1033	1	COVER, COUPLING
26	21733	4	CAPSCREW, 1/2 x 2,NC
27	21990	13	LOCKWASHER, 1/2"
28	21725	13	HEX NUT, 1/2" NC
29	SEE NEW ROTARY KNIVES AND DISKS PAGE		
30	SEE NEW ROTARY KNIVES AND DISKS PAGE		
31	SEE NEW ROTARY KNIVES AND DISKS PAGE		
32	SEE NEW ROTARY KNIVES AND DISKS PAGE		
33	SEE NEW ROTARY KNIVES AND DISKS PAGE		
34	21632	8	CAPSCREW,3/8" X 1-1/2" NC
35	21988	8	LOCKWASHER, 3/8"
36	33656	1	PLATE,GUARD,SAFETY,REAR,RTRY
37	6T2267	9	CARRIAGE BOLT, 1/2" x 2" NF, GR8
38	33655	2	PLATE,GAURD,SAFETY,FRONT, RTRY

TM72” MOTOR ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	06504018	1	MOTOR
2	TF4852	2	KIT,FLANGE,#20
3	34943	2	ELBOW,#20FLG x #16MJ
4	24724	1	ELBOW,#16FJX x #16MJ45
5	06500444	1	HOSE,#16 x 141
6	06500445	1	HOSE,#16 x 145

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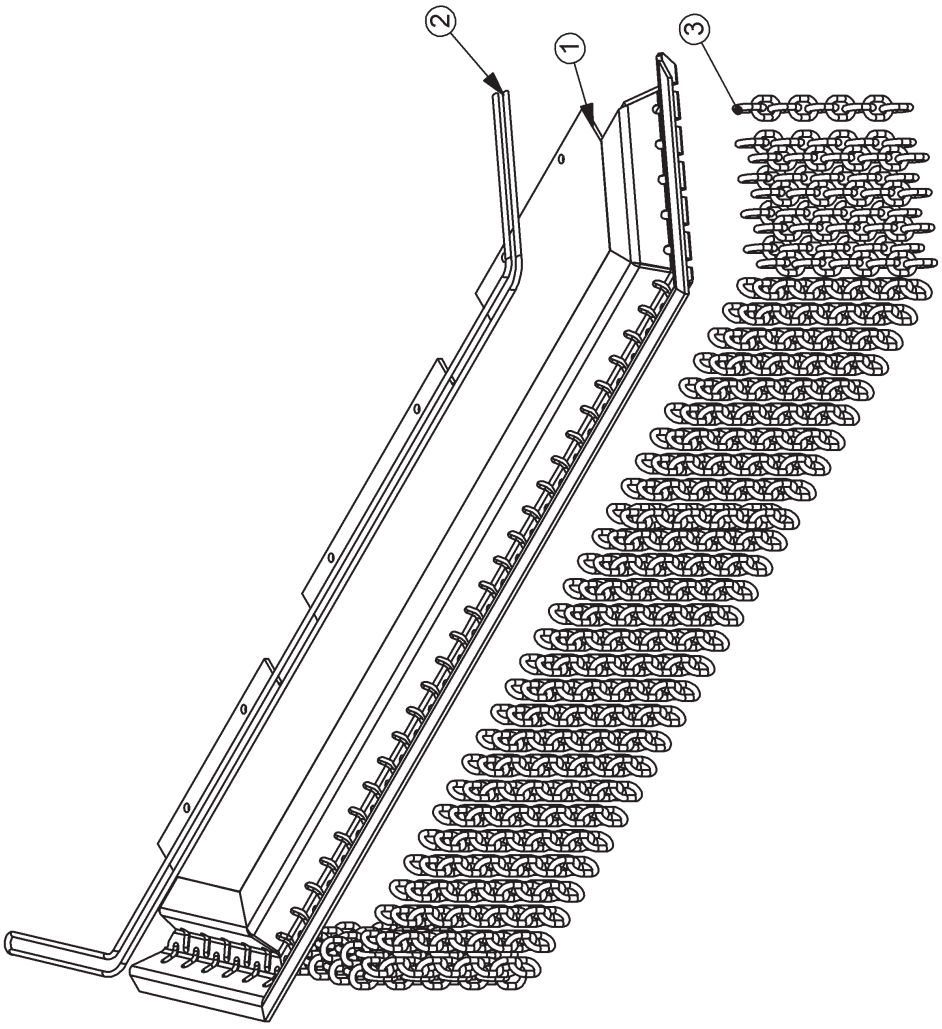
CHAIN GUARDS



SIDE ROTARY CHAIN GUARDS

60" SIDE ROTARY

ITEM	PART NO.	QTY.	DESCRIPTION
	31773	**STD.**	**GAURD,CHAIN,SR60,FRONT ASSY**
1	31762	1	GUARD,CHAIN,TM60,FRONT
2	28407	12'	CABLE, 5/16", BULK
3	22993	77	CHAIN, 5/16" GR30, 9 LINK
**	28408	4	U-BOLT, CABLE, 5/16"

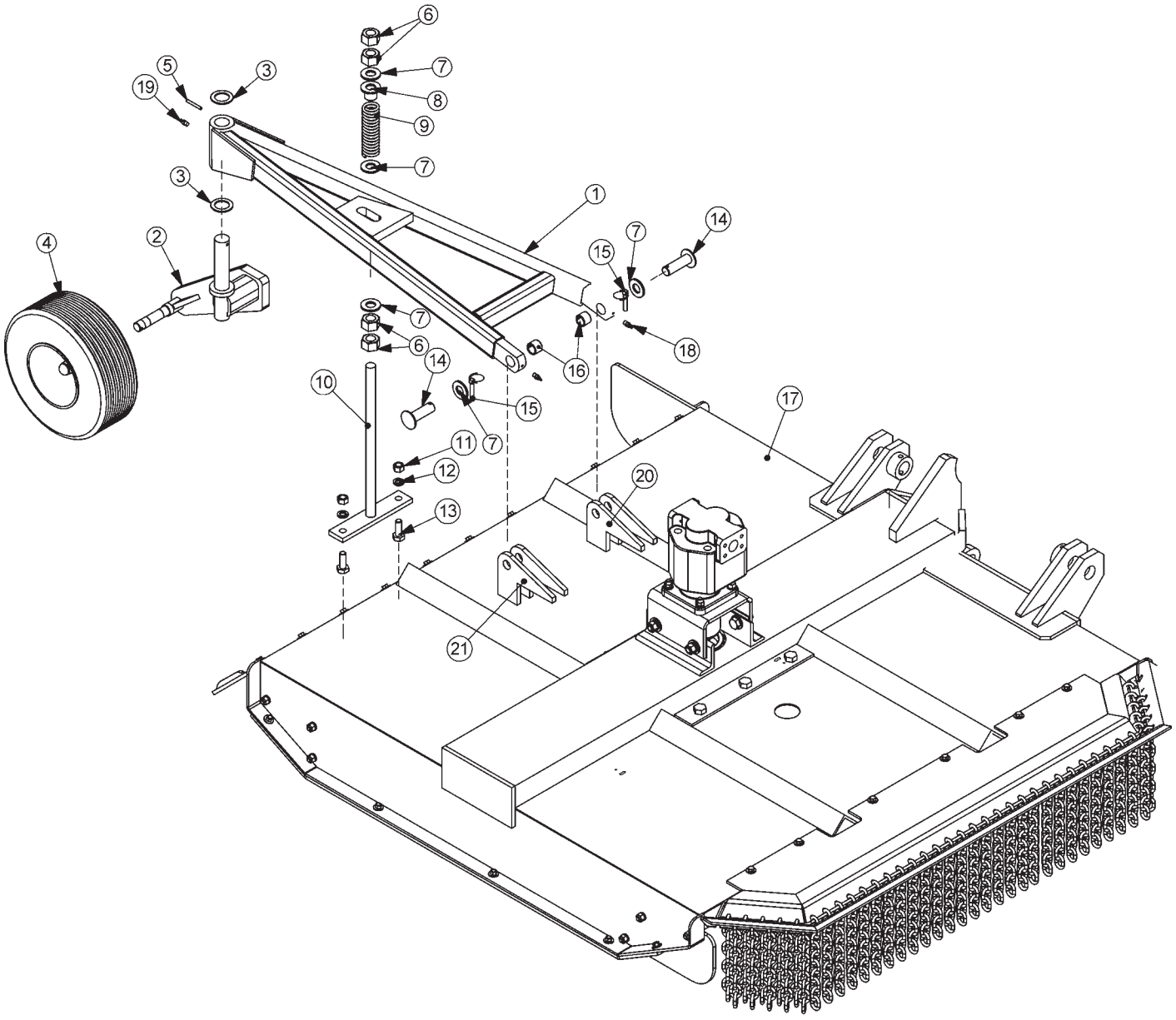
** NOT SHOWN

72" SIDE ROTARY

ITEM	PART NO.	QTY.	DESCRIPTION
	31931	**STD.**	**GAURD,CHAIN,SR72,FRONT ASSY**
1	31863	1	GUARD,CHAIN,TM72,FRONT
2	28407	14'	CABLE, 5/16", BULK
3	22993	91	CHAIN, 5/16" GR30, 9 LINK
**	28408	4	U-BOLT, CABLE, 5/16"

** NOT SHOWN

SIDE ROTARY CASTER WHEEL ASSEMBLY



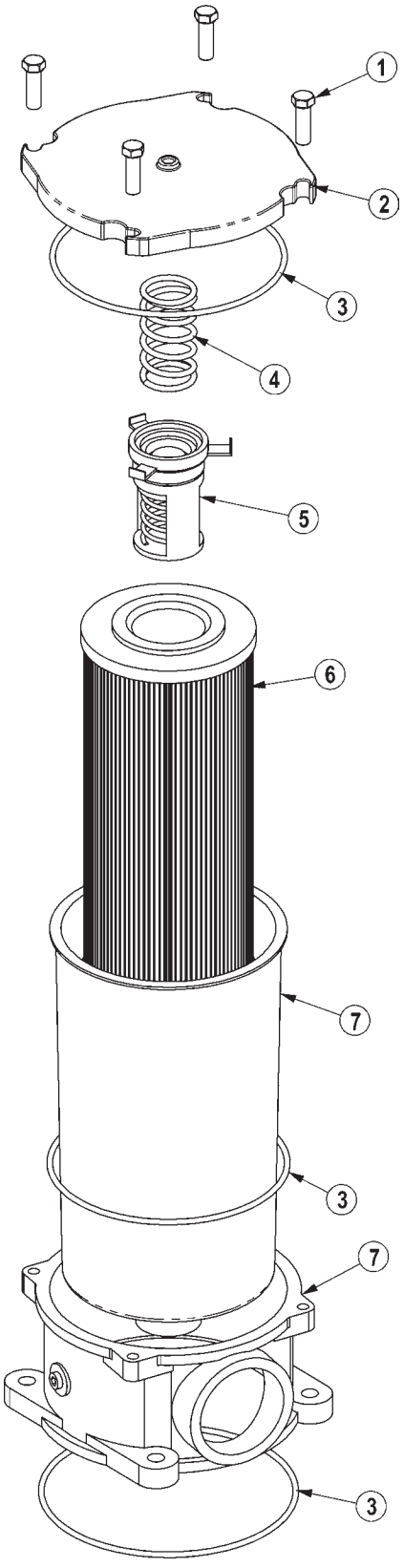
PB80100 CASTER WHEEL SIDE RTRY

SIDE ROTARY CASTER WHEEL ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	25214C	1	FRAME,CASTER,WHL,TM60,W/O CG
2	22057C	1	SPINDLE, CASTER AXLE, ASSY
3	6T2617	2	BUSHING,MACH,1-1/2IDX 2-1/4OD
4	28548	1	CASTER WHEEL, SOLID TIRE
**	22065	1	HUB ASSY, REAR ROTARY
**	22066	1	HUB, CASTER (REAR ROTARY)
**	22070	1	DUST CAP
**	22071	5	HUB STUD
**	22073	1	HEX NUT, 1”NF (SLOTTED)
**	22533	1	COTTER PIN, 3/16” x 2”
**	6T0830	2	BEARING, CONE, CASTER WHEEL
**	6T0838	1	SEAL
**	23329	1	WHEEL, CPLT, SOLID TIRE
**	21416	1	TIRE, SOLID, RR-RTRY
**	22697	1	RIM, OUTER/RR RTRY CASTER
**	22696	1	RIM, REAR ROTARY CASTER
5	6T3014	1	ROLL PIN, 1/4" x 2"
6	21925	4	HEX NUT,1" NC
7	22023	5	FLATWASHER,1"
8	22753	1	TUBE, PROTECTOR
9	22058	1	SPRING, REAR RTRY
10	22059B	1	ADJ ROD, TRR
11	21775	2	HEX NUT, 5/8
12	21992	2	LOCKWASHER, 5/8
13	21782	2	CAPSCREW, 5/8 x 1 3/4,NC
14	22060	2	CASTER FRAME PIN
15	TF1143	2	PIN, LYNCH, 7/16" x 2"
16	TB3010	2	BUSHING,1"
17	31460	1	RTRY,60" CPLT-HP,T3F,W/FRT CG
18	6T3207	2	GREASE ZERK,1/4" X STR
19	6T3211	1	GREASE ZERK,1/8" X STR
20	21441	2	CASTER FRAME ANCHOR GUSSET
21	21442	2	CASTER FRAME ANCHOR GUSSET

NOTE: CASTER WHEEL ASSEMBLY IS BROKEN DOWN LATER IN THE MANUAL

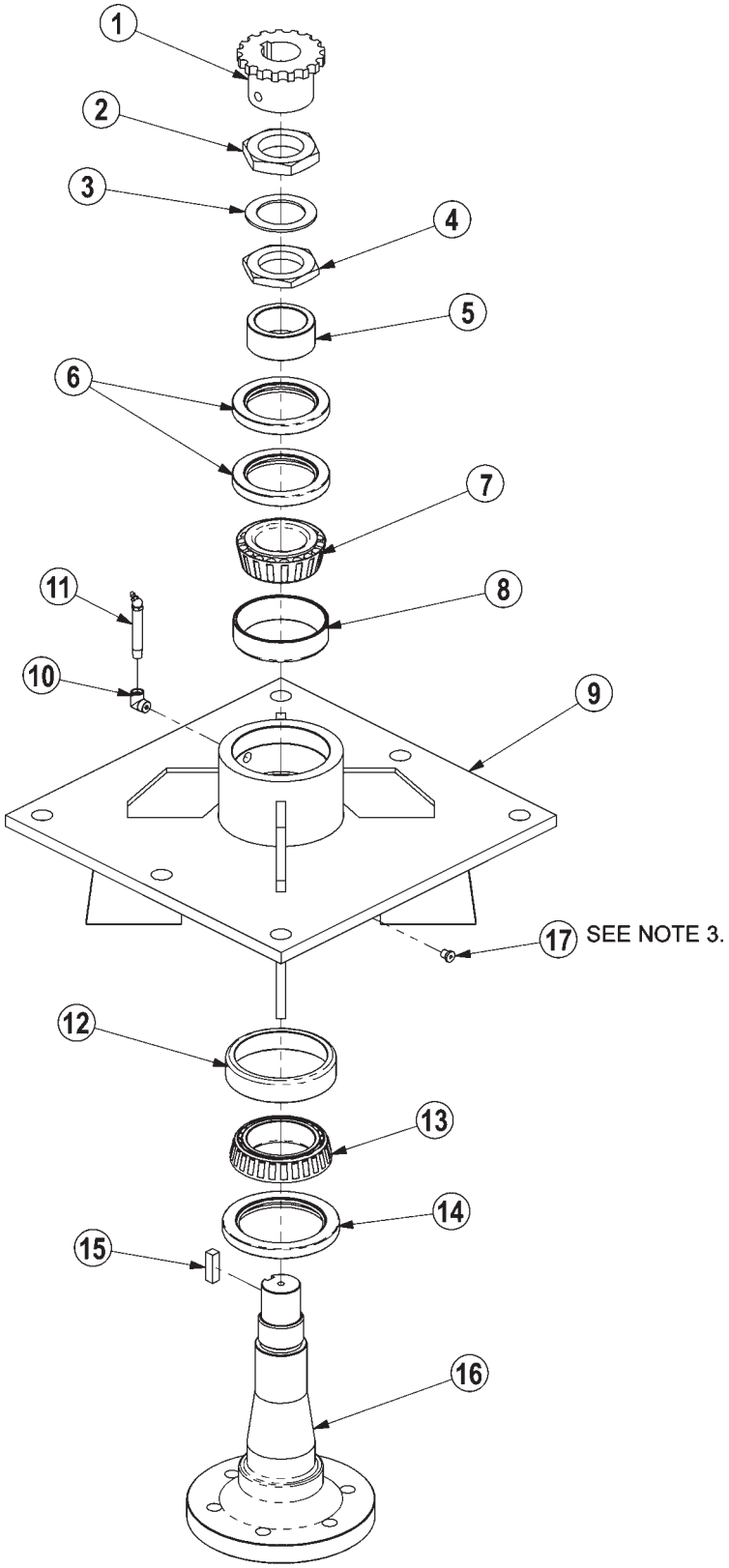
RESERVOIR TANK FILTER ASSEMBLY



RESERVOIR TANK FILTER ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	**AVAIL**	**FILTER ASSY SAE 10 MICRON**
1	28583	4	CAPSCREW,8MMX25MM(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

MOWER SPINDLE ASSEMBLY - 6T1024H5



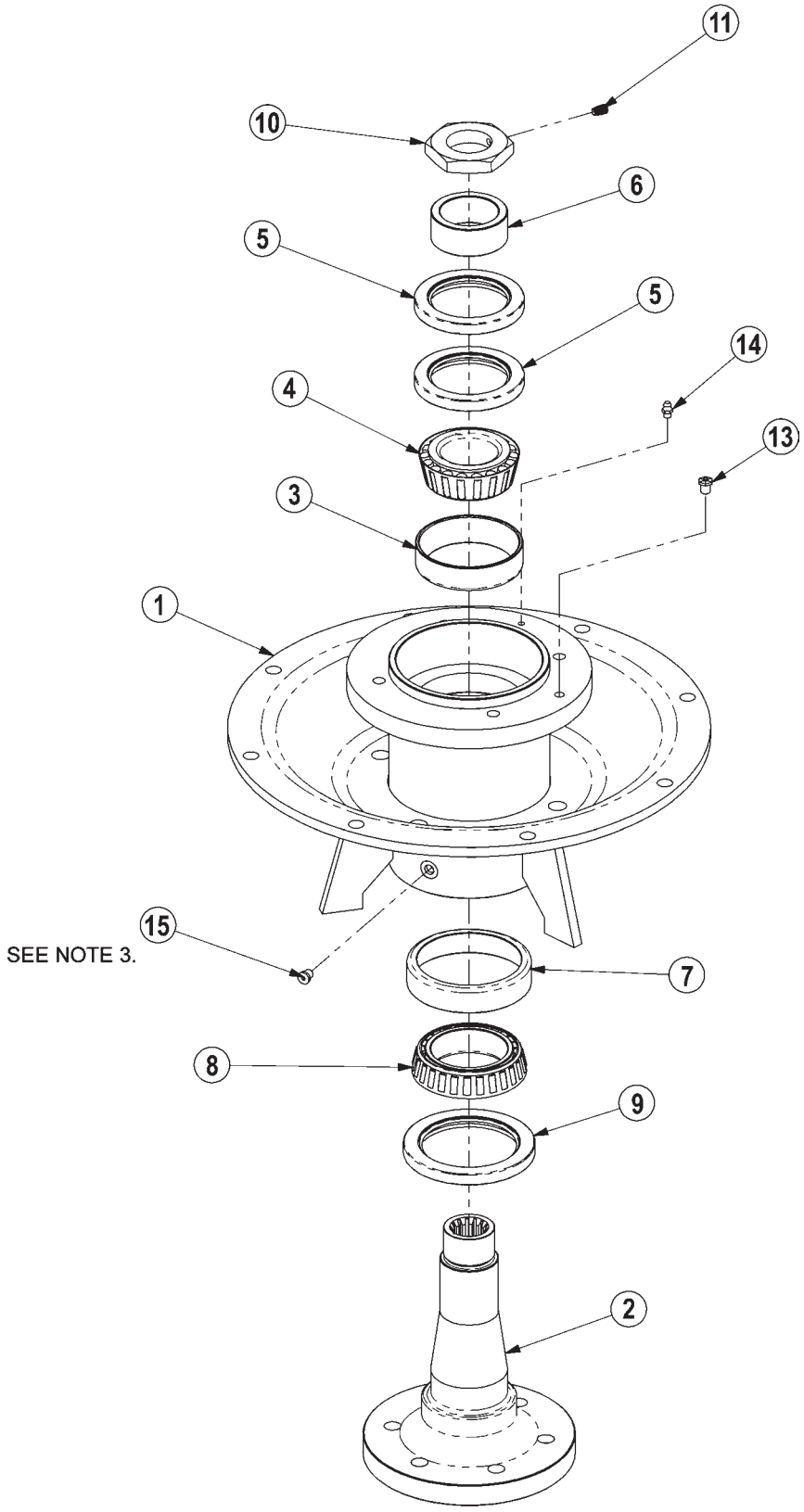
NOTES:

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

MOWER SPINDLE ASSEMBLY - 6T1024H5

ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	**AVAIL**	**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**	**AVAIL**	**SPINDLE REBUILD KIT (INCLUDE ITEMS 2 THRU 8 AND 12 THRU 15)**

MOWER SPINDLE ASSEMBLY - 34980



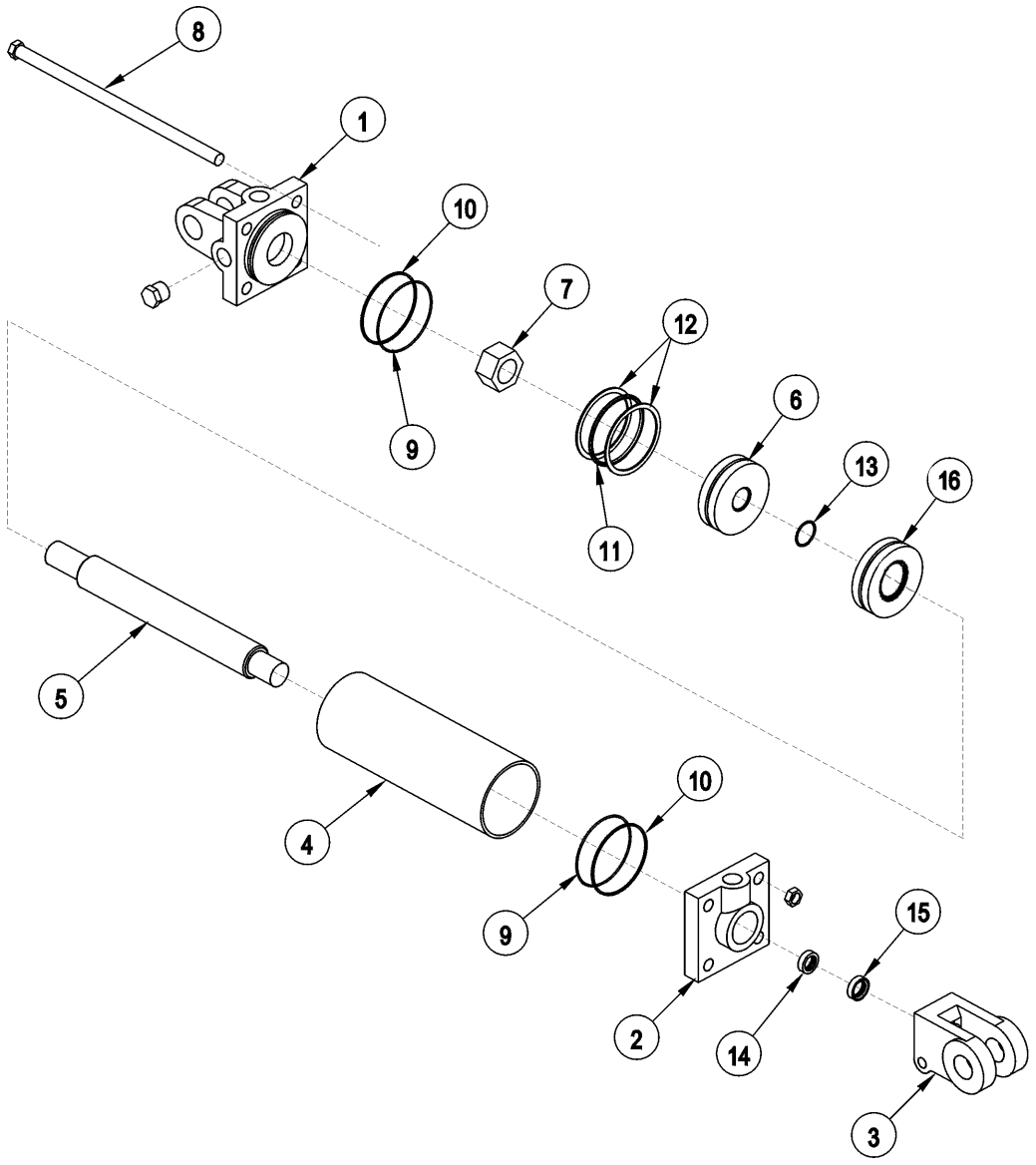
NOTES:

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

MOWER SPINDLE ASSEMBLY - 34980

ITEM	PART NO.	QTY.	DESCRIPTION
1	34978	1	SPINDLE MOUNT
2	34979	1	SPINDLE,TM60",NEW
3	6T1013	1	BEARING CUP
4	6T1012	1	BEARING,CONE
5	6T1011	2	SEAL,UPPER (SET OF 2)
6	6T1014	1	SLEEVE,ADJ BEARING
7	6T1013H	1	BEARING CUP,HD
8	6T1012H	1	BEARING,CONE,HD
9	6T1011H	1	SEAL,LOWER (HD)
10	34985	1	NUT W/SETSCREW
11	6T2275	1	SETSCREW,5/16x1/2,NC
13	34988	1	RELIEF,1PSI,1/8NPT
14	6T3207	1	ZERK,1/4" x STR
15	06503064	1	O-RING PLUG, 1/8”

HYDRAULIC LIFT CYLINDER



Tb1015

HYDRAULIC LIFT CYLINDER

3" X 10" CYLINDER # 6T0151R

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0164	1	CYLINDER TUBE
5	6T0161	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0176	4	TIE ROD ASY
	6T0187	**AVAIL**	**SEAL KIT**
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

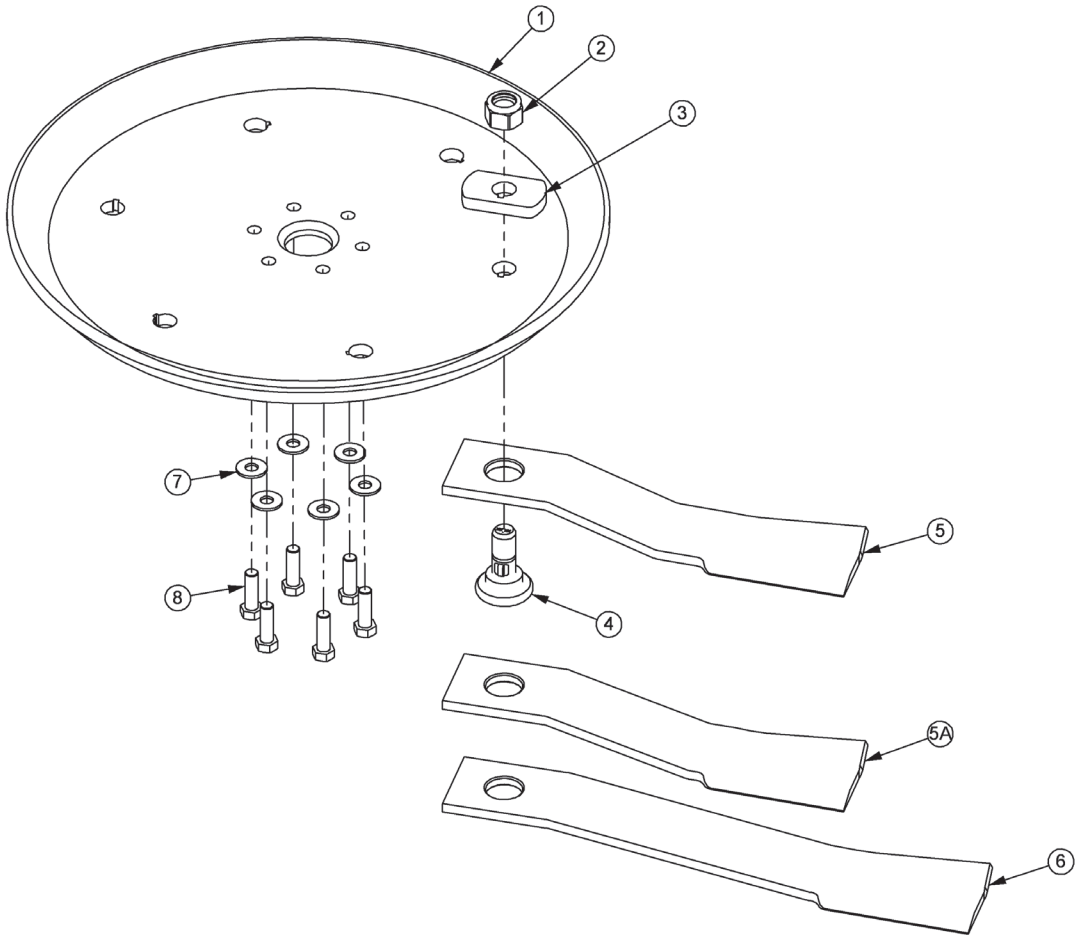
3" X 12" CYLINDER # 32215

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0204	1	CYLINDER TUBE
5	6T0203	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0205	1	TIE ROD ASY
	6T0187	**AVAIL**	**SEAL KIT**
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

3" X 18" CYLINDER # 6T0150

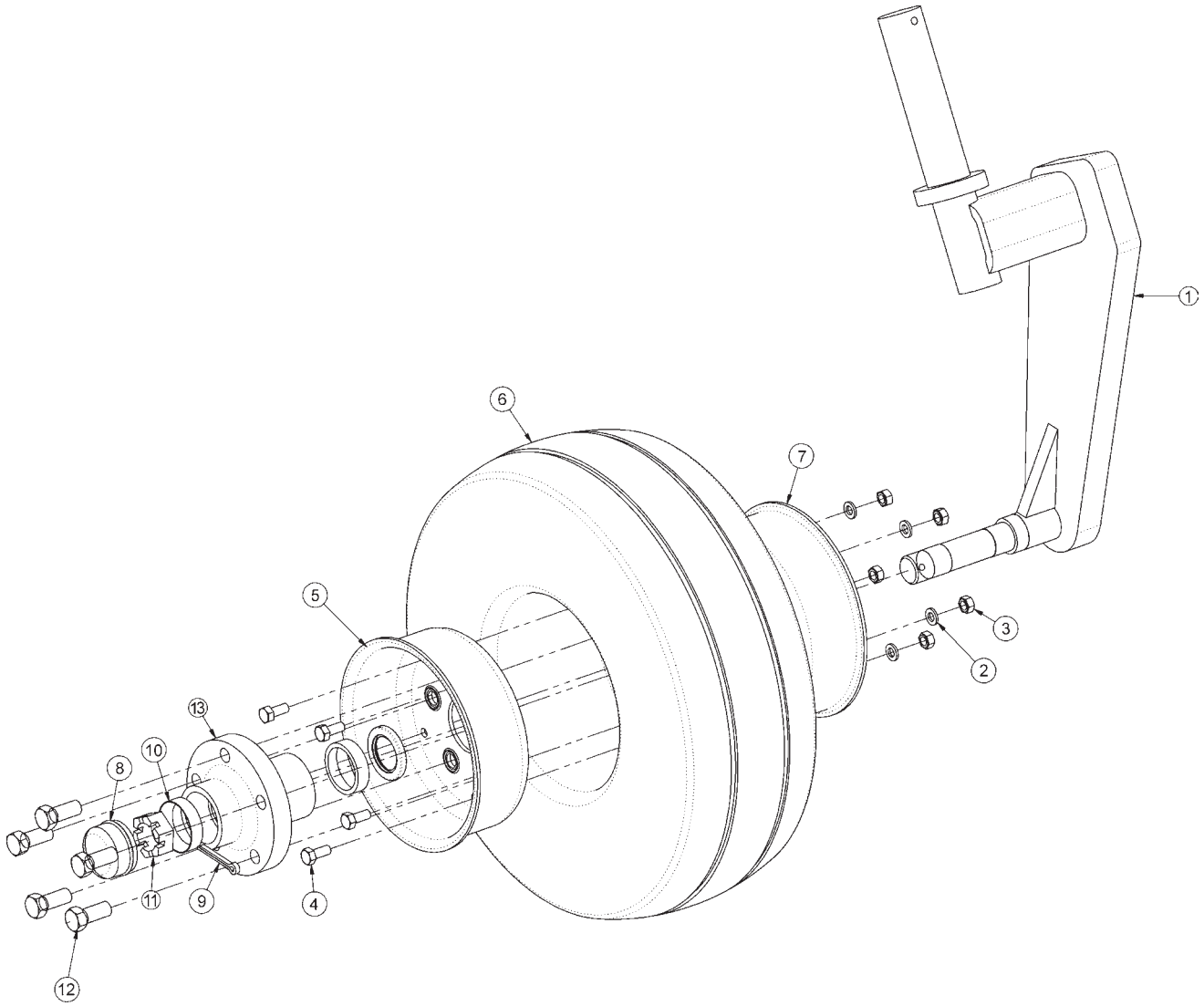
ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0165	1	CYLINDER TUBE
5	6T0162	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0177	1	TIE ROD ASY
	6T0187	**AVAIL**	**SEAL KIT**
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

ROTARY KNIVES AND DISKS



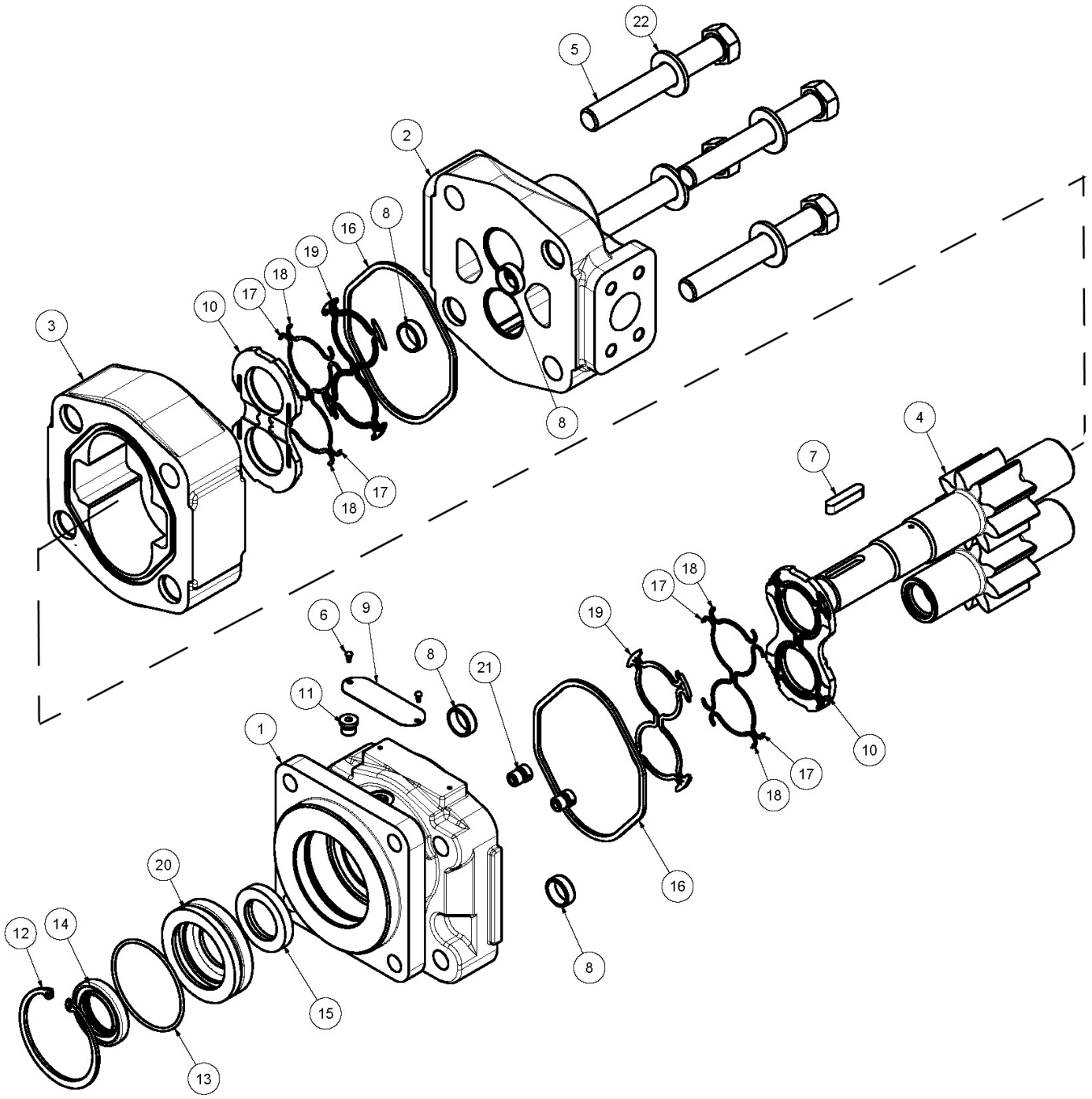
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8”
3	34878	2	SPACER
4	34497	2	KNIFE MOUNTING BOLT
5	34685	2	KNIFE,60" HIGH SUCTION - STANDARD
5A	34684	2	KNIFE,60" - OPTIONAL
6	34682	2	KNIFE 72” - **MOUNT ON 72” MOWER ONLY**
7	25270	6	FLATWASHER,5/8,USS,GR8
8	6T2290	6	CAPSCREW,5/8 x 2
*	6T1825	*	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
*	**27167**	**AVAIL**	**BOLT KIT (INCLUDE ITEMS 7 & 8)**
*	**06700002**	**AVAIL**	**KIT,60/72,DISK,KNF MTG (INCLUDE ITEM 1, 3,7 & 8)**

CASTER WHEEL ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	21459	1	SPINDLE, CASTER WHEEL AXLE
2	21987	5	LOCKWASHER, 5/16”
3	21575	5	HEX NUT, 5/16”
4	28548	5	CAPSCREW, 5/16” x 3/4”, NC
5	22697-1	1	RIM, OUTER/RR RTRY CASTER ASSY
6	21416	1	TIRE,SOLID,RR-RTRY
7	22696-1	1	RIM,REAR ROTARY CASTER
8	22070	1	DUST CAP
9	22533	1	COTTER PIN, 3/16” X 2”
10	6T0836	2	CUP, CASTER WHEEL
11	22073	1	HEX NUT,1NF(SLOTTED JAM NUT)
12	22071	5	HUB STUD
13	22066-1	1	HUB CASTER (REAR ROTARY)

ROTARY MOTOR



ROTARY MOTOR

60” ROTARY MOTOR

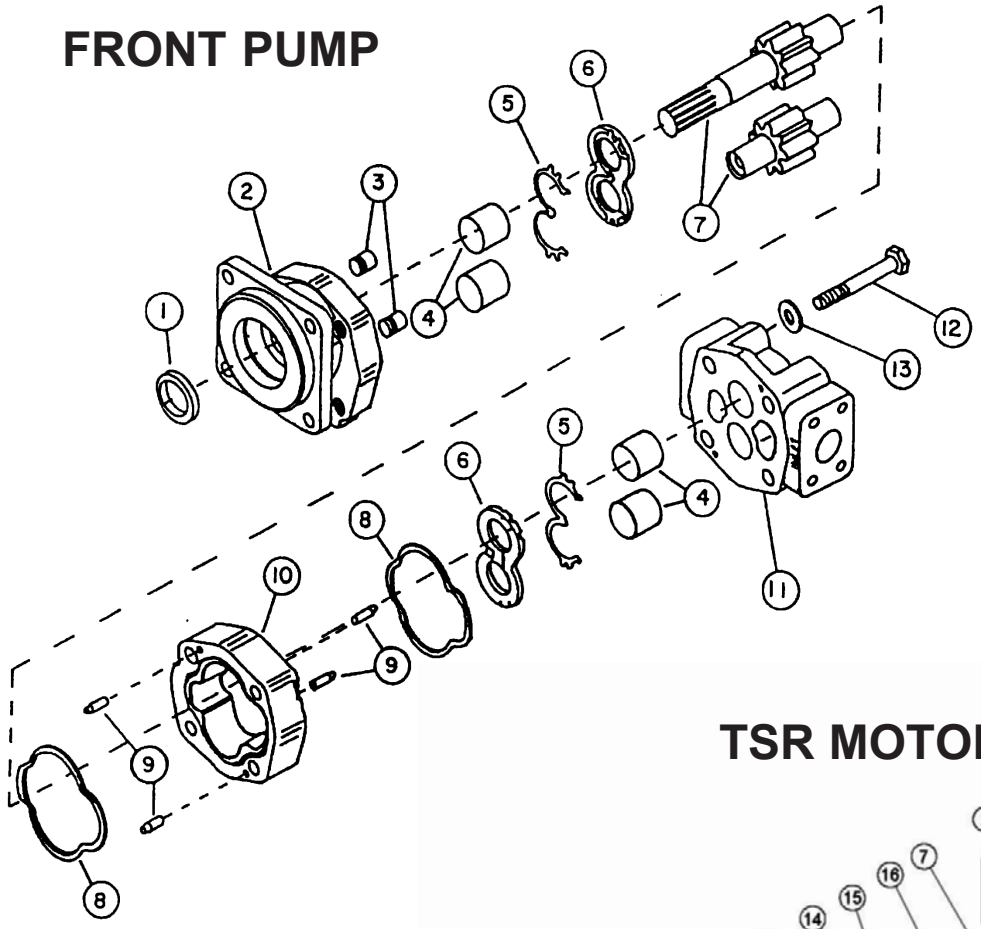
ITEM	PART NO.	QTY.	DESCRIPTION
*	**06504011**	**AVAIL**	**MOTOR**
	06504103	**1**	**SEAL KIT**
1	22790	1	HOUSING, SEC
2	06504088	1	HOUSING, PEC
3	06504062	1	HOUSING, GEAR
4	06504090	1	SET, GEAR SHAFT
5	06504104	4	CAP SCREW
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	02961940	1	PLUG, ODT
12	02962200	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

72” ROTARY MOTOR

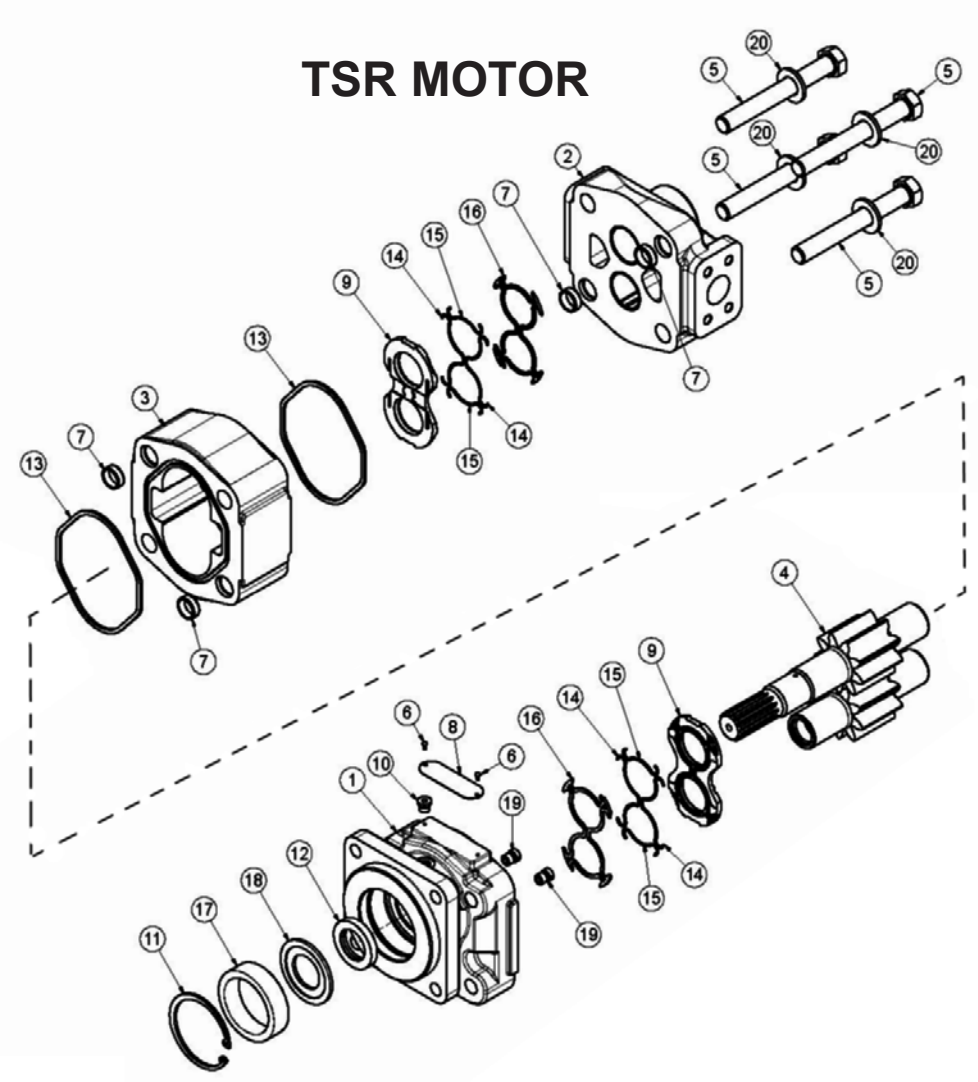
ITEM	PART NO.	QTY.	DESCRIPTION
	06504018		MOTOR
	06504103	1	SEAL KIT
1	22790	1	HOUSING, SEC
2	06504088	1	HOUSING, SEC
3	06504062	1	HOUSING, GEAR
4	06504105	1	SET, GEAR SHAFT
5	06504106	4	CAP SCREW
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	02961940	1	PLUG, ODT
12	02962200	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

HYDRO PUMP & TSR MOTOR

FRONT PUMP



TSR MOTOR



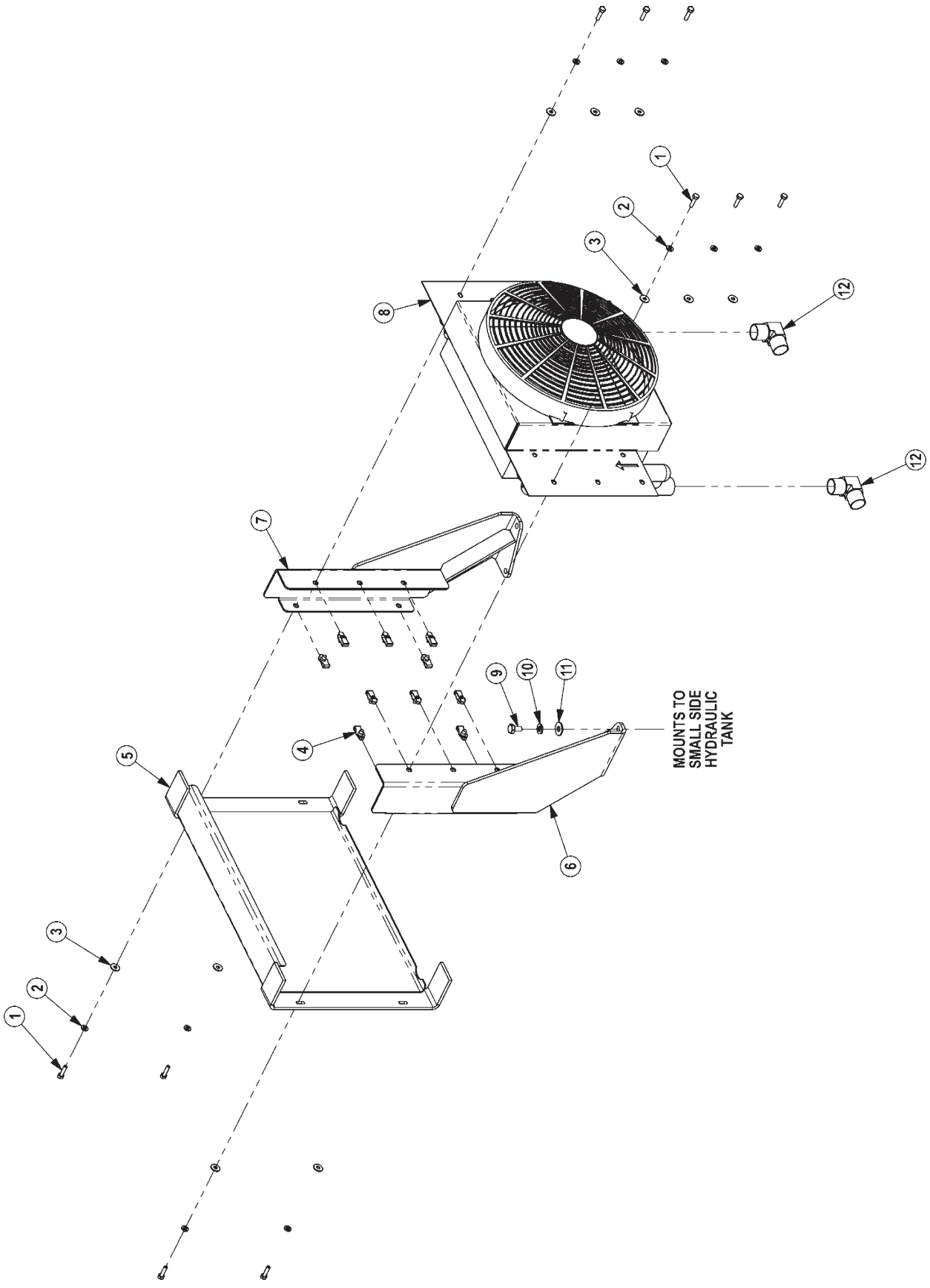
FRONT HYDRAULIC PUMP

ITEM	PART NO.	QTY.	DESCRIPTION
	23152	**AVAIL**	**PUMP ASSEMBLY 1 3/4" COMPLETE**
1	22765	1	SEAL (INCLUDED IN SEAL KIT)
2	22766	1	SHAFT END COVER
3	22767	2	CHECK AND END COVER
4	22768	2	BUSHING
5	22769	2	CHANNEL SEAL (INCLUDED IN SEAL KIT)
6	22770	2	THRUST PLATE (INCLUDED IN SEAL KIT)
7	22771	SET	DRIVE SHAFT AND GEAR SET 1 3/4"
8	22772	2	GASKET SEAL (INCLUDED IN SEAL KIT)
9	22773	4	DOWEL PINS
10	22774	1	GEAR HOUSING 1 3/4"
11	22779	1	PORT END COVER
12	23824	4	STUDS
13	22781	SET	WASHER
	6T5322	**AVAIL**	**SEAL APPLICATOR TOOL**
	24150	**AVAIL**	**SEAL KIT (INCLUDES 1, 5, 6 AND 8)**

TSR MOTOR

ITEM	PART NO.	QTY.	DESCRIPTION
	06504016	AVAIL	MOTOR(M365-1 1/4SPLINE),SEALED
1	**22790**	**1**	**HOUSING, SEC**
2	**06504088**	**1**	**HOUSING, PEC**
3	**06504111**	**1**	**HOUSING, GEAR**
4	**06504110**	**1**	**SET, GEAR SHAFT**
5	**06504104**	**4**	**CAP SCREW**
6	**06504078**	**2**	**SCREW, DRIVE**
7	**06504093**	**4**	**PIN, DOWEL**
8	**06504094**	**1**	**NAME PLATE**
9	**06504095**	**2**	**THRPL**
10	**02961940**	**1**	**PLUG, ODT (0.25)**
11	**6T5200**	**1**	**RING, SNAP**
12	**06504097**	**1**	**SEAL, LIP**
13	**22797**	**2**	**SEAL, SQ-R**
14	**06504098**	**4**	**SEAL, SIDE CHAN**
15	**06504099**	**4**	**SEAL, END CHAN**
16	**06504100**	**2**	**SEAL, BK-UP**
17	**06504112**	**1**	**SPACER**
18	**06504113**	**1**	**RTNR, SEAL**
19	**6T5809**	**2**	**CHECK ASS'Y**
20	**06504102**	**4**	**WASHER**

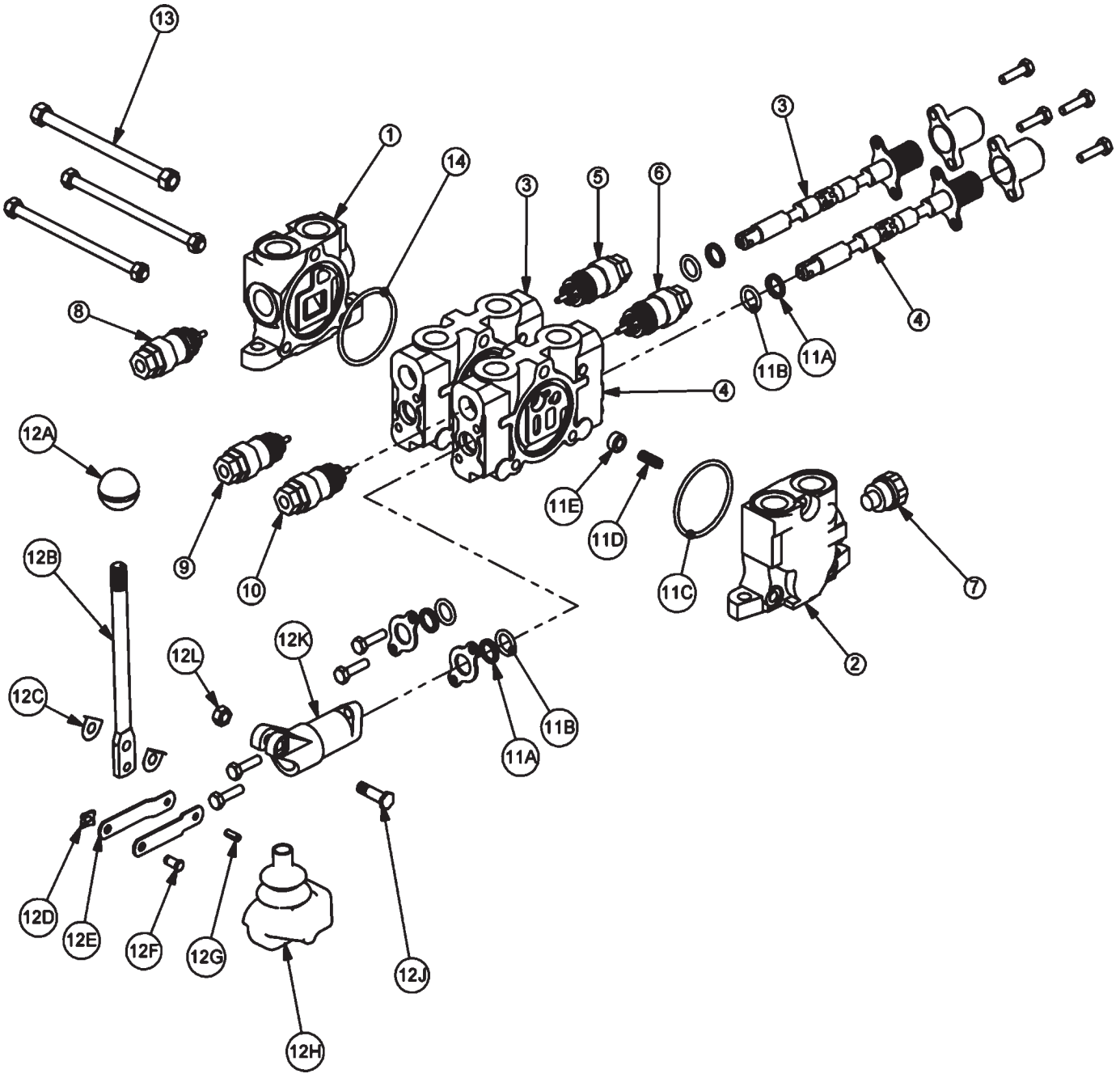
SIDE COOLER



SIDE COOLER

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

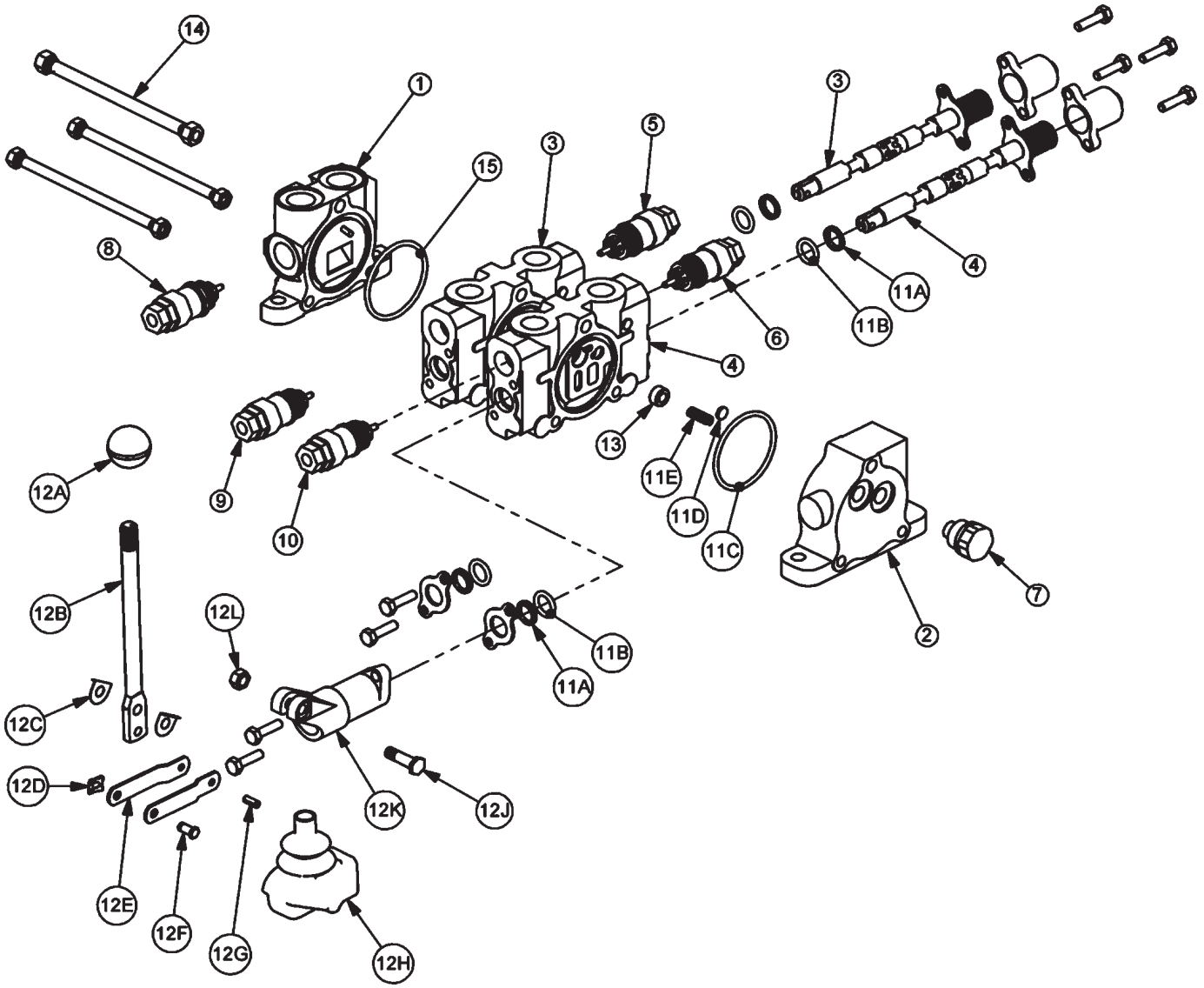
2SP HUSCO - POWER BEYOND (30801)



2SP HUSCO - POWER BEYOND (30801)

ITEM	PART NO.	QTY	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	06502091	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (NO AUX VALVE PORTS)
5	N/A	-	N/A
6	N/A	-	N/A
7	TB1017M	1	SHUT-OFF PLUG
8	TB1017E	1	RELIEF VALVE, 2250 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	N/A	-	N/A
11	TB1017A	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SPRING
11E		1	PUCKET
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	TB1017X	1	TIE ROD KIT
14	24214	1	O-RING, LARGE

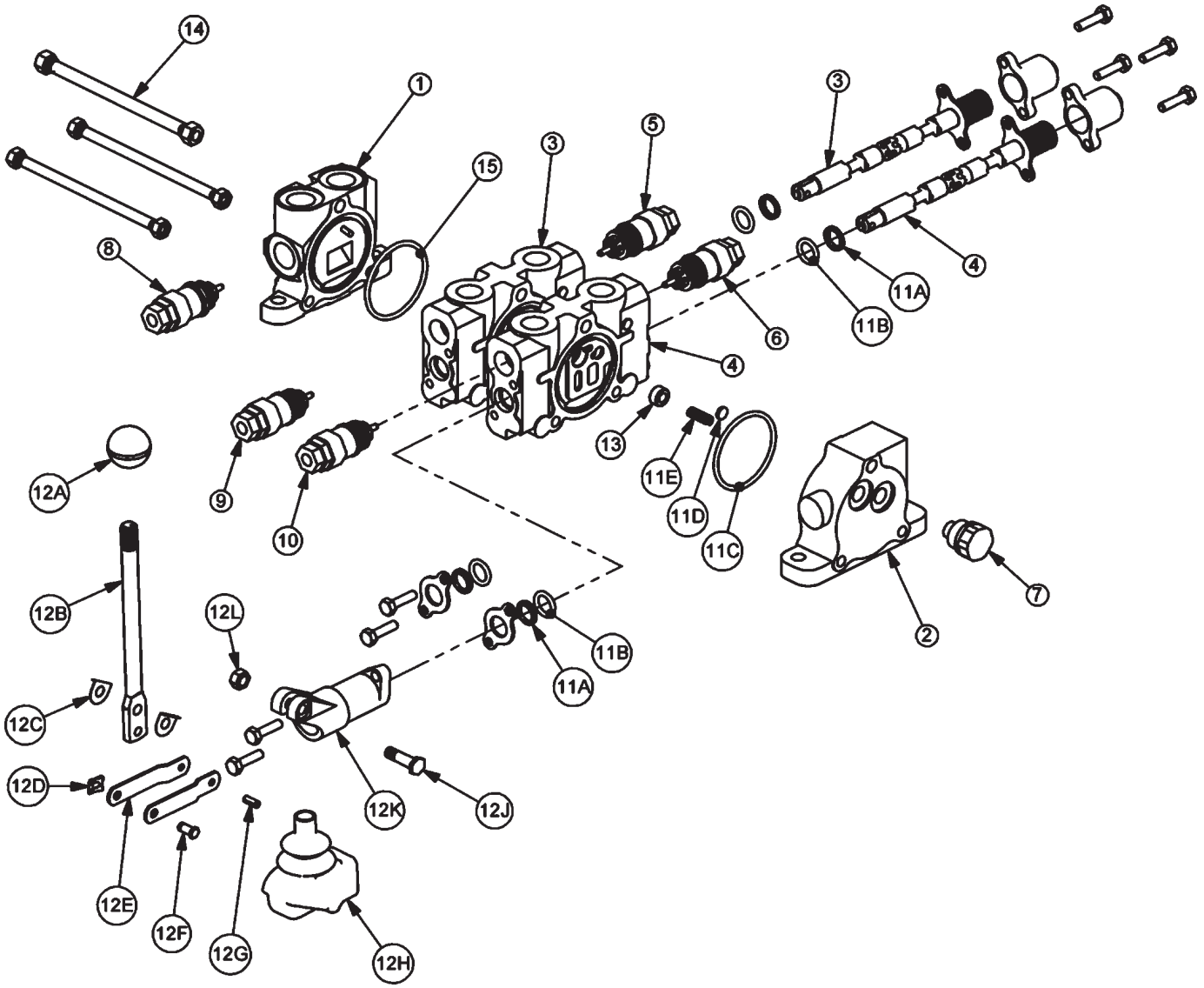
2 SP HUSCO - LOAD SENSE (31320)



2 SP HUSCO - LOAD SENSE (31320)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6	06503067	1	RELIEF PLUG
7	N/A	-	N/A
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

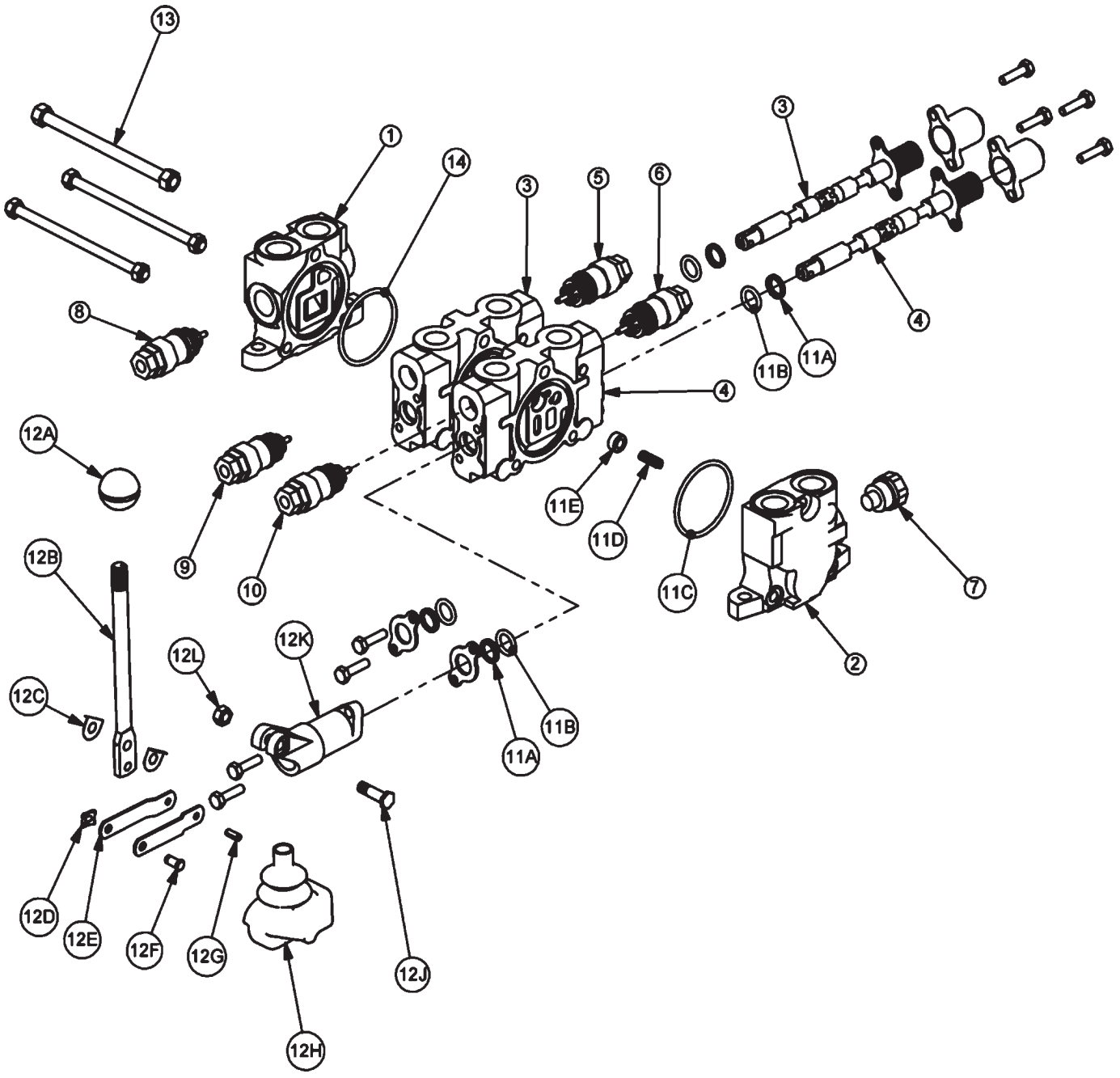
2 SP HUSCO - LOAD SENSE (31321)



2 SP HUSCO - LOAD SENSE (31321)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	06503067	1	RELIEF PLUG
6	31861	1	RELIEF VALVE, 360 PSI
7	N/A	-	N/A
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

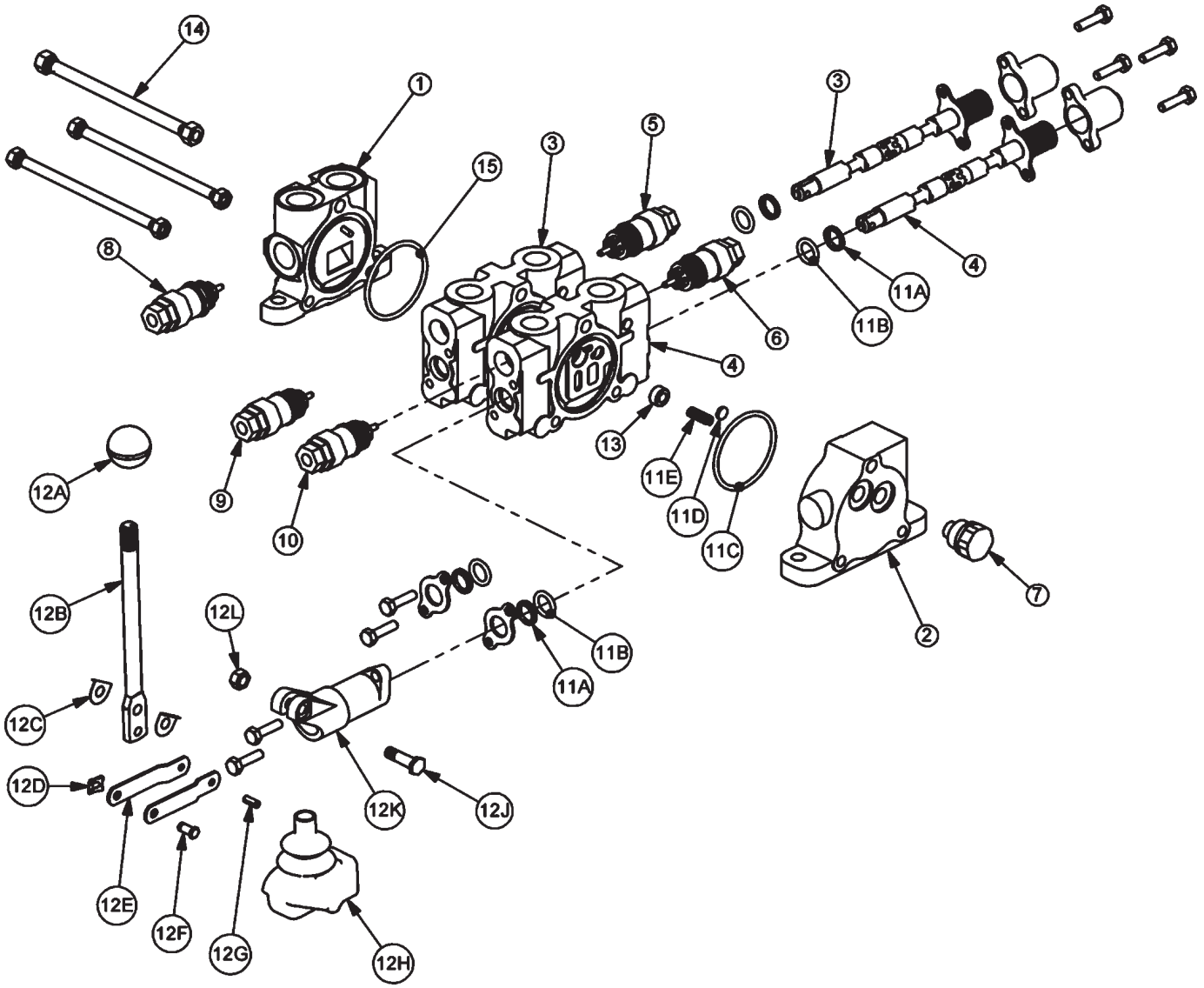
2SP HUSCO - POWER BEYOND (31752)



2SP HUSCO - POWER BEYOND (31752)

ITEM	PART NO.	QTY	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
5	N/A	-	N/A
6	N/A	-	N/A
7	TB1017M	1	SHUT-OFF PLUG
8	TB1017E	1	RELIEF VALVE, 2250 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	TB1017M	1	TB1017M
11	TB1017A	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SPRING
11E		1	PUCKET
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	TB1017X	1	TIE ROD KIT
14	24214	1	O-RING, LARGE

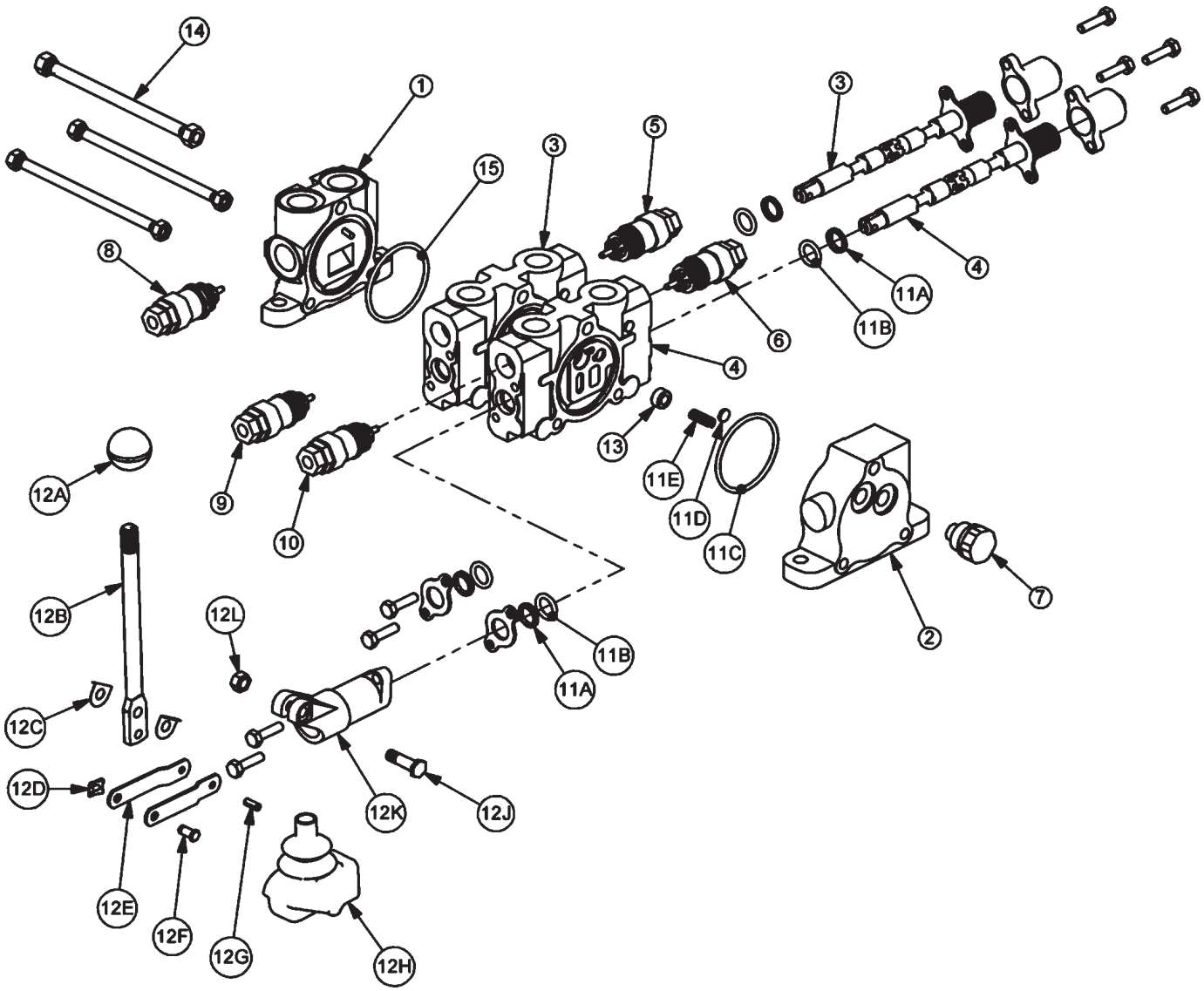
2SP HUSCO - LOAD SENSE (06502040)



2SP HUSCO - LOAD SENSE (06502040)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)
5	06503067	1	RELIEF PLUG
6	06503067	1	RELIEF PLUG
7	06503068	1	RELIEF PLUG
8	N/A	-	N/A
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

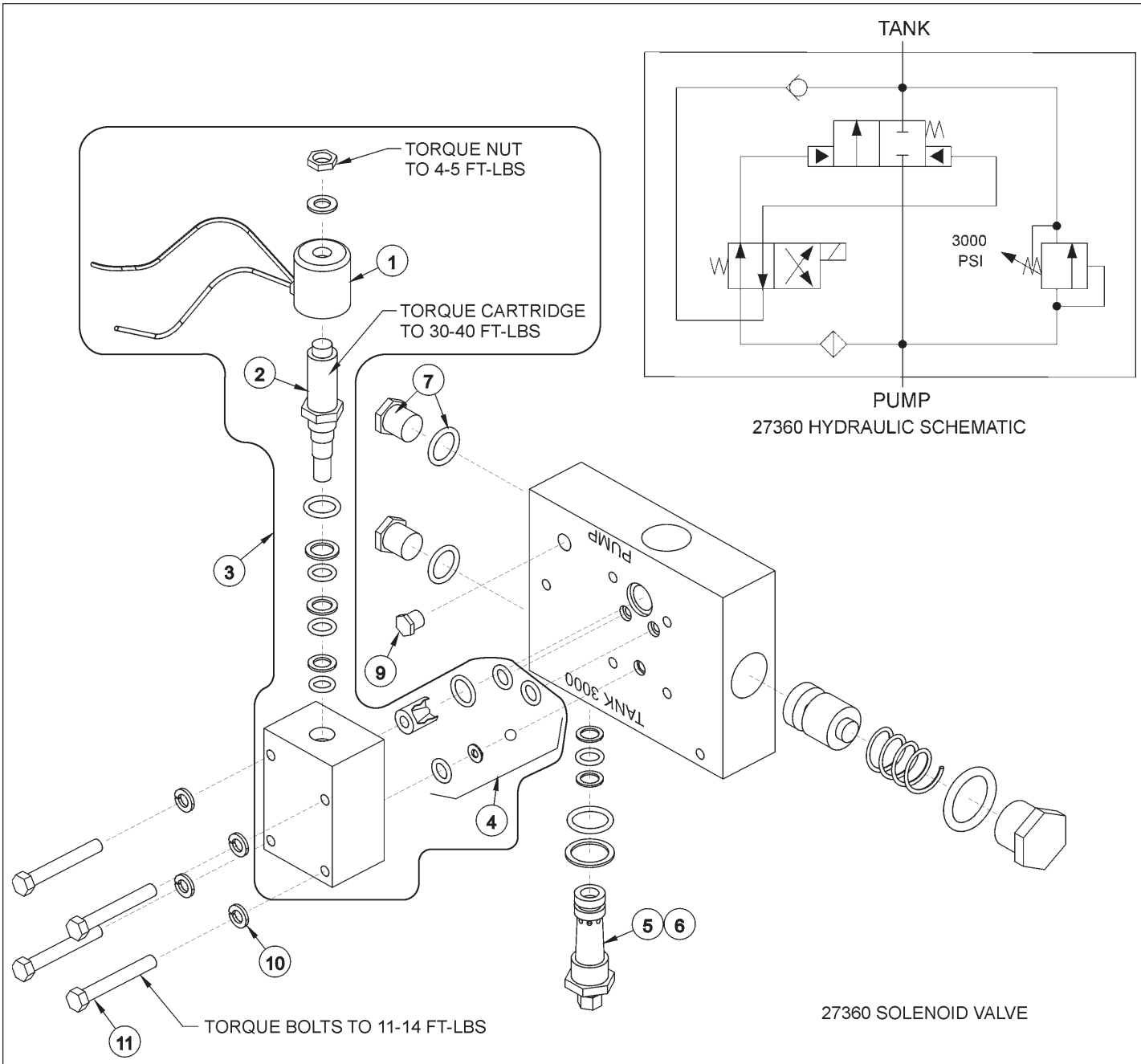
2SP HUSCO - LOAD SENSE (06502042)



2SP HUSCO - LOAD SENSE (06502042)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT FLOAT)
4	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT FLOAT) (REMOVE SHUTTLE DISC)
5	06503067	1	RELIEF PLUG
6	31861	1	RELIEF VALVE 360 PSI
7	06503068	1	RELIEF PLUG
8	6T4209	1	RELIEF PLUG
9	31862	1	RELIEF VALVE, 2175 PSI
10	31862	1	RELIEF VALVE, 2175 PSI
11	31593	2	VALVE SEAL KIT (FOR ONE SECTION)
11A		2	WIPER
11B		2	O-RING SMALL
11C		1	O-RING LARGE
11D		1	SHUTTLE DISC
11E		1	SPRING
12	TB1017L	2	LEVER KIT (FOR ONE SECTION)
12A		1	LEVER KNOB
12B		1	LEVER
12C		2	LEVER WASHER
12D		1	LEVER CLIP
12E		2	LINKAGE
12F		1	LEVER PIN
12G		1	ROLL PIN
12H		1	LEVER BOOT
12J		1	LEVER BOLT
12K		1	LEVER DUST COVER
12L		1	LEVER NUT
13	31603	2	COMPENSATOR
14	TB1017X	1	TIE ROD KIT
15	24214	1	O-RING, LARGE

SOLENOID VALVE ASSEMBLY

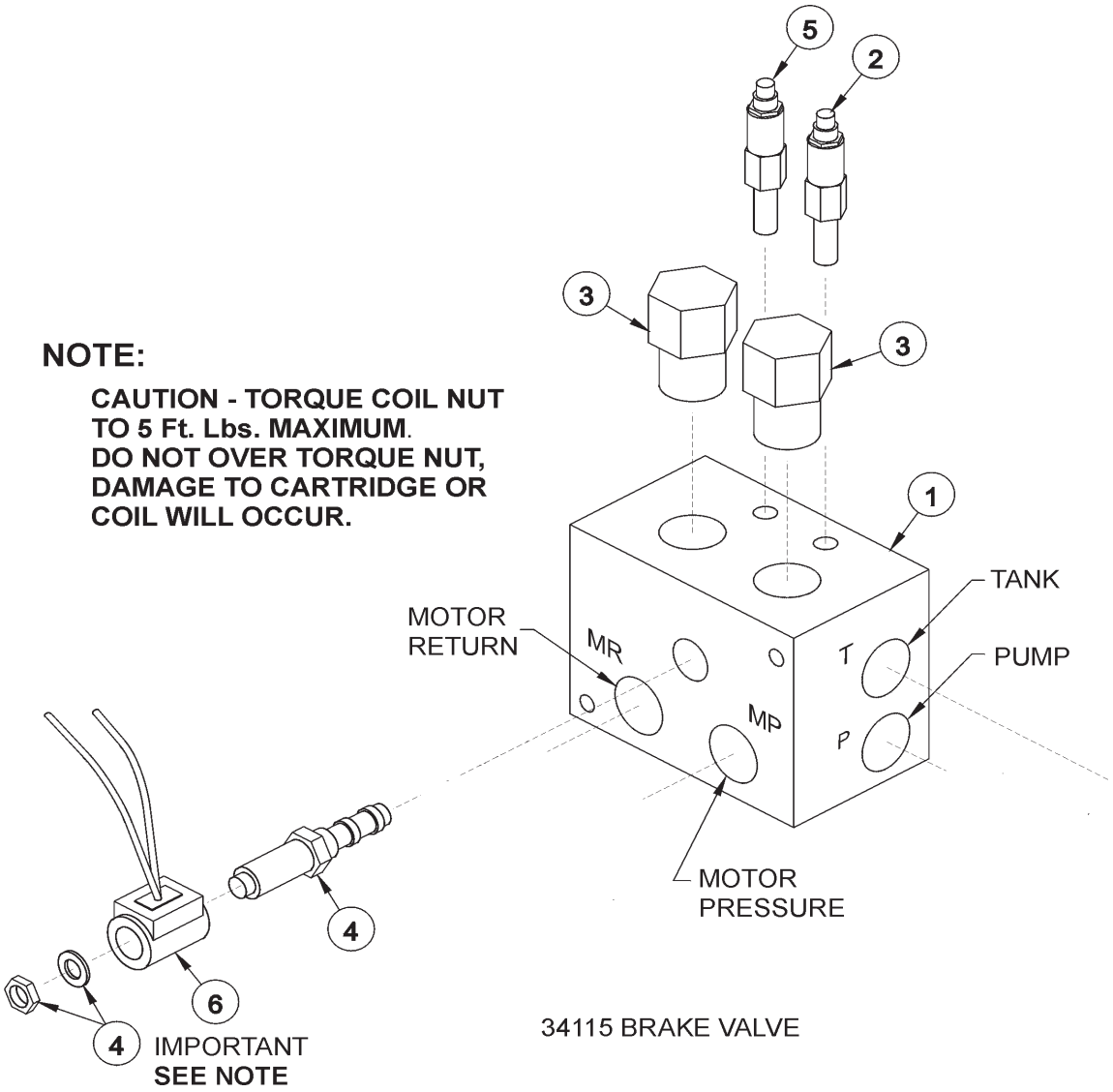


ITEM	PART NO.	QTY.	DESCRIPTION
	06502007	**AVAIL**	**VALVE ASY HIGH PRESSURE**
	06502008	**AVAIL**	**VALVE ASY LOW PRESSUTE**
1	34689	1	SOLENOID COIL
2	06505026	1	SOLENOID
3	06502009	1	SOLENOID VALVE KIT
4	6T3911	1	SOLENOID SEAL KIT
5	6T3908	1	RELIEF PILOT 2150 PSI LOW PRESSURE
6	6T3910	1	RELIEF PILOT 3400 PSI HIGH PRESSURE
7	6T4209	2	PLUG W/ O - RING
9	TF1228	1	PLUG 1/4" NPT HOLLOW HEX
10	21987	4	LOCKWASHER 5/16"
11	21586	4	CAPSCREW 5/16" X 2 1/2"

SOLENOID BRAKE VALVE ASSEMBLY

NOTE:

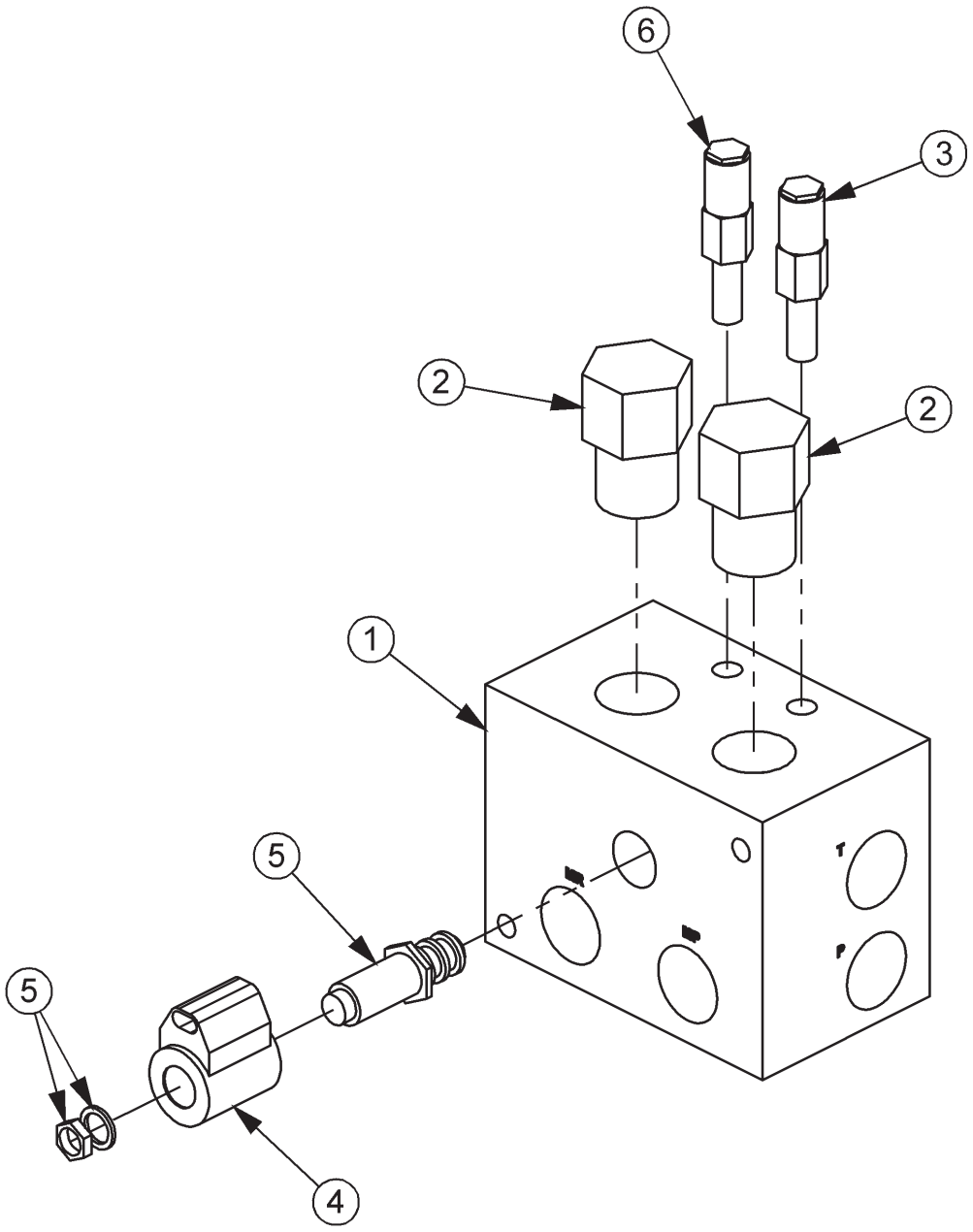
CAUTION - TORQUE COIL NUT TO 5 Ft. Lbs. MAXIMUM. DO NOT OVER TORQUE NUT, DAMAGE TO CARTRIDGE OR COIL WILL OCCUR.



34115 BRAKE VALVE

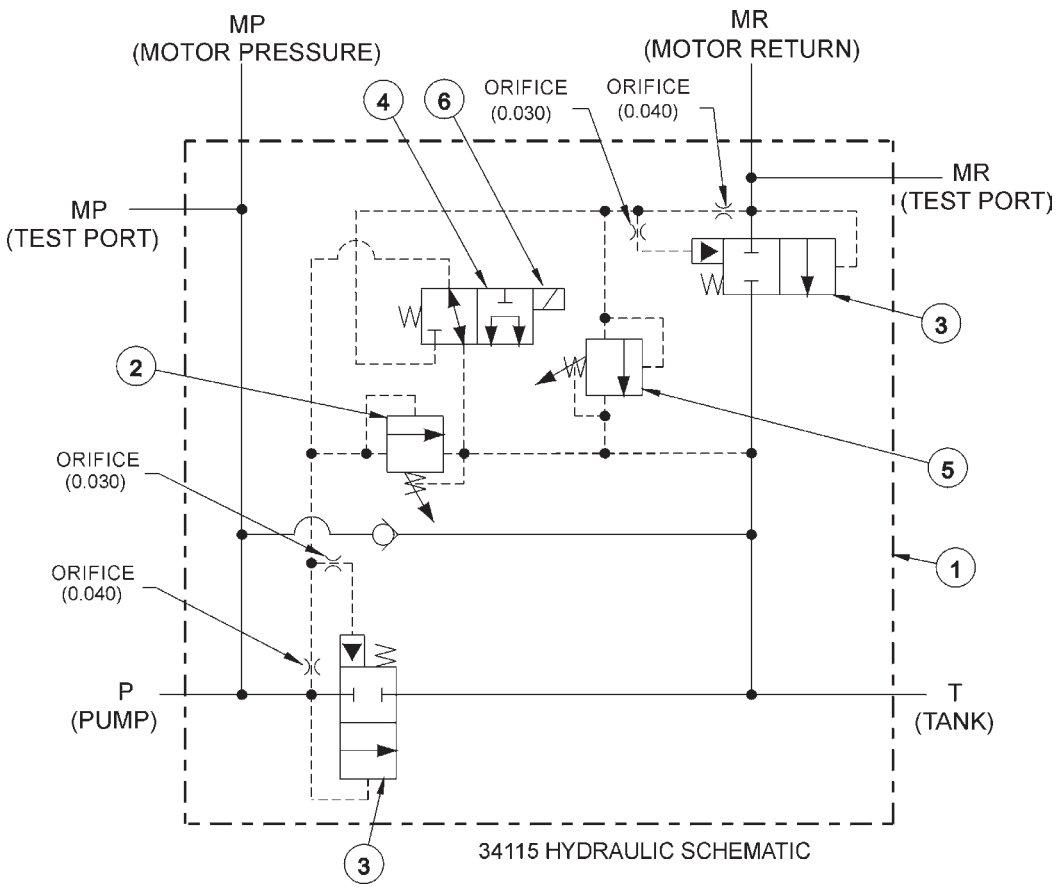
ITEM	PART NO.	QTY.	DESCRIPTION
*	34115	AVAIL	SOLENOID BRAKE VALVE ASSEMBLY - HIGH PRESSURE
1	34092	1	BRAKE VALVE, BLANK
2	34095	1	RELIEF VALVE, 3000 PSI
3	34094	2	LOGIC ELEMENT
4	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
5	34091	1	RELIEF VALVE, 2600 PSI
6	34689	1	COIL, 12 VDC, BRAKE VALVE
**	34096	2	RELIEF SEAL KIT
**	34097	1	SOLENOID SEAL KIT
**	34098	2	ELEMENT SEAL KIT

BRAKE VALVE ASSEMBLY W/ METRI PAK



ITEM	PART NO.	QTY.	DESCRIPTION
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

SOLENOID BRAKE VALVE HYDRAULIC SCHEMATIC



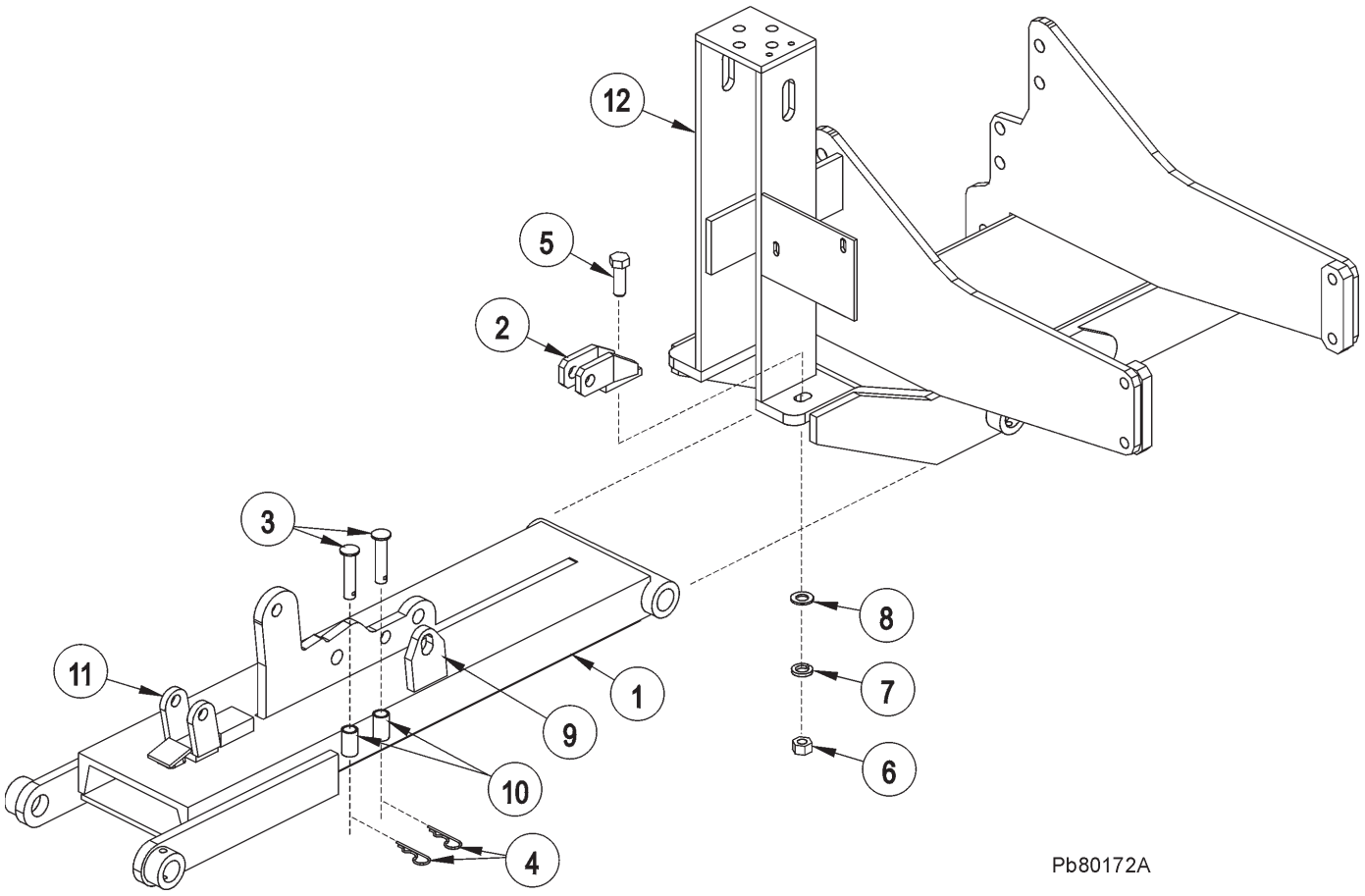
BRAKE VALVE TROUBLESHOOTING

FAILURE MODE:	CHECK STEPS
- MOWER WILL NOT START - system pressure is low (engine not lugging).	1 thru 6
- MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure.	7
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.	3 thru 5
- MOWER BLADE WILL NOT STOP - blade will not stop in proper time.	7 thru 9

CORRECTIVE STEPS:

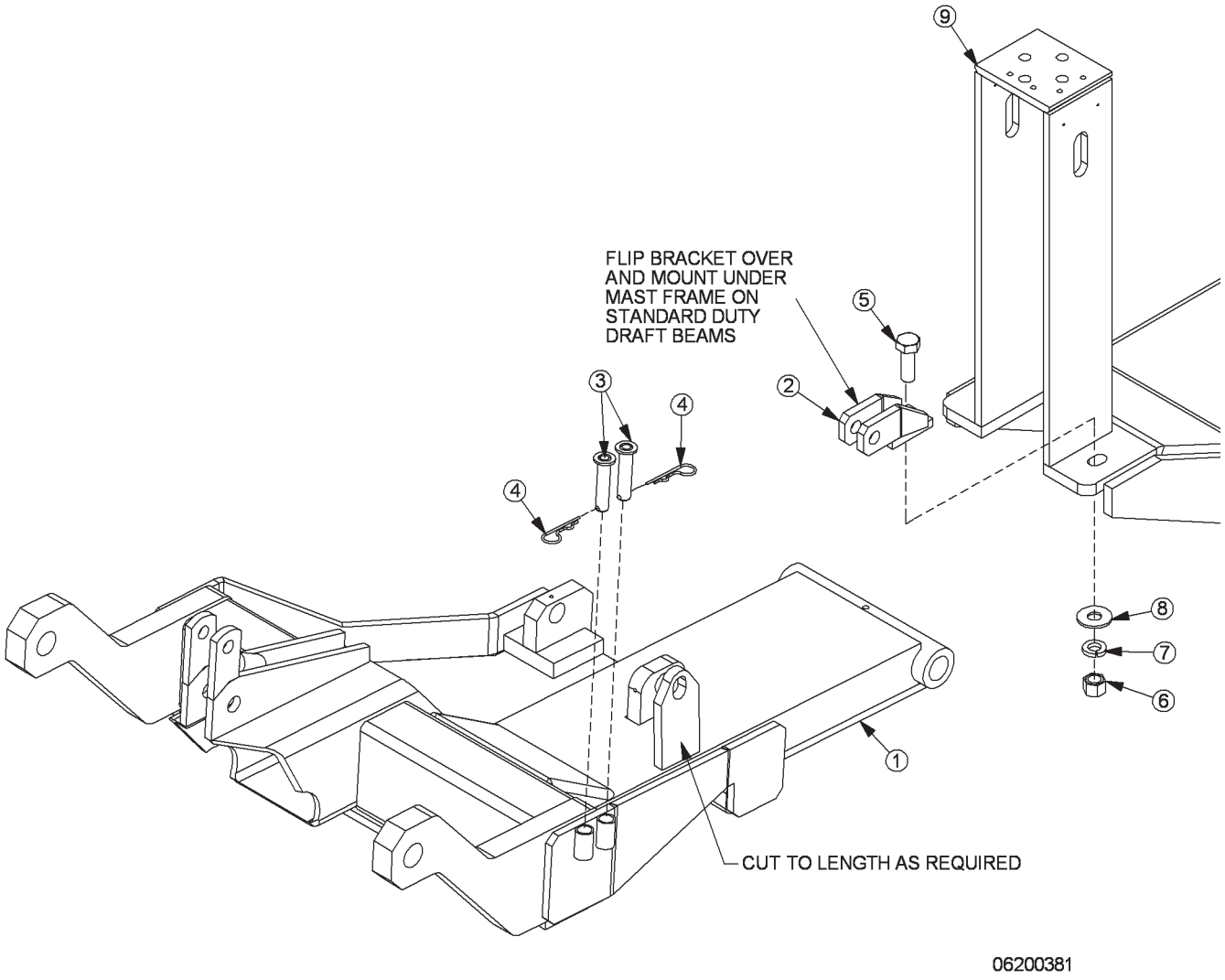
1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve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

TRAVEL LOCK LIFT BEAM



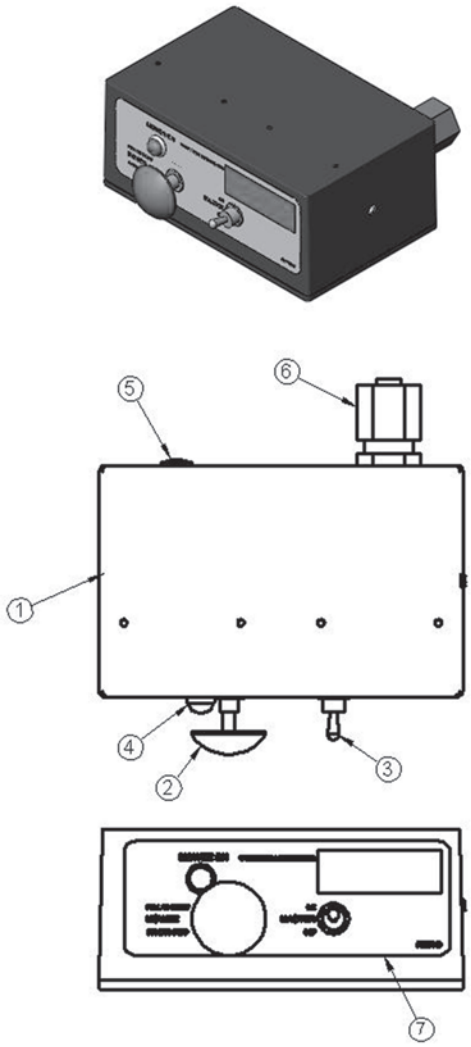
ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0105	1	DRAFT BEAM (STD WITH TRAVEL LOCKS)
2	6T0106	1	TRAVEL LOCK BRACKET
3	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
4	6T3020	2	R - CLIP 5/32"
5	21833	1	CAPSCREW 3/4" X 2 1/4"
6	21825	1	HEX NUT 3/4"
7	21993	1	LOCK WASHER 3/4"
8	22021	1	FLAT WASHER 3/4"
9	22600	1	TRAVEL LOCK EAR
10	22604	2	PIN HOLDER
11	22601C	1	TRAVEL LOCK ASY
12	*	REF.	MAIN FRAME REFER TO PARTS SECTION

SIDE MOWER TRAVEL LOCK (COMBO)



ITEM	PART NO.	QTY.	DESCRIPTION
1	**REF**	*	**COMBO DRAFT BEAM- REFER TO DRAFT BEAM PARTS**
2	6T0106	1	TRAVEL LOCK BRAKCET
3	6T0107	2	TRAVEL LOCK PIN (3/4" x 3-1/4"CAPPED)
4	6T3020	2	R-CLIP, 5/32"
5	21833	1	CAPSCREW, 3/4" x 2-1/4" NC
6	21825	1	HEX NUT, 3/4" NC
7	21993	1	LOCKWASHER, 3/4"
8	22021	1	FLAT WASHER, 3/4"
9	**REF.**	*	**MAIN FRAME - REFER TO MAIN FRAME PARTS**

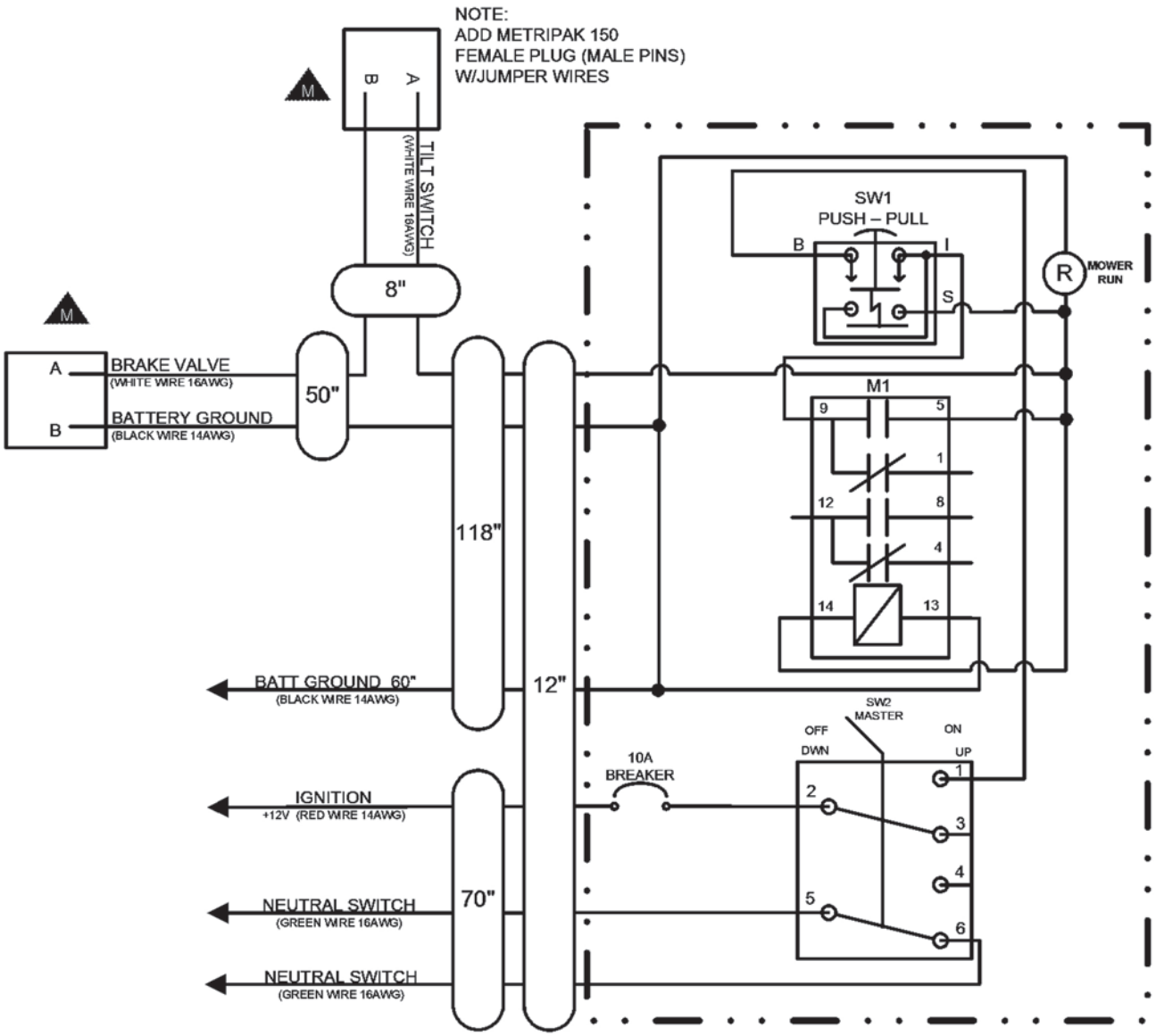
SWITCHBOX SERVICE PARTS



ITEM	P/N	QTY.	DESCRIPTION
1	06514013	1	SWBX,ALUM,BLK,06510102
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	6T3923	1	INDICTATOR LIGHT,ON,RED
5	06514014	1	BREAKER,10A,SWBX
6	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
7	06550018	1	DECAL,SWTCHBX,TM/TSF,CG
8	35227	1	RELAY,DP,DT,12V,LY2F,35226

SWITCHBOX SCHEMATIC

06510102 SCHEMATIC
COMMON GROUND SWITCH BOX
SIDE MOWER



SEE DRAWING # 06515000 FOR A FULL DESCRIPTION OF ALL CONNECTORS

WARRANTY SECTION

WARRANTY INFORMATION

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

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

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

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

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

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSED HEREIN.

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

ONE LAST WORD

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

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

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

TO THE OWNER / OPERATOR / DEALER

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

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

OWNER REQUIREMENTS:

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

OPERATOR REQUIREMENTS:

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

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