



KOMATSU - IT ASSEMBLIES

KOMATSU WP200PT
TRB/TBF

Current as of 09/26/05



PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

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

06050001

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!

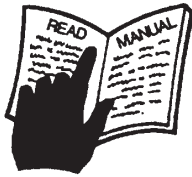
READ AND UNDERSTAND THIS MANUAL! Non-English speaking operators will need to GET THE MANUAL TRANSLATED as needed!



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.

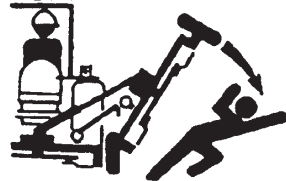
7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.

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

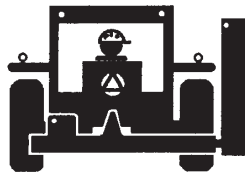
● Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.

● 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.



02967827

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

FORWARD

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

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

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

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

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

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

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

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

MANUFACTURED BY:

Tiger Corporation

3301 N. Louise Ave.

Sioux Falls, SD 57107

1-800-843-6849

1-605-336-7900

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1012

This symbol means:

CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.



SAFETY SECTION

SAFETY

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

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

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



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

CAUTION!



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

WARNING!



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

DANGER!



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

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



SAFETY

PELIGRO!



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



¡ LEA EL INSTRUCTIVO!

DANGER!



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



WARNING!



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

WARNING!



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



WARNING!



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



WARNING!

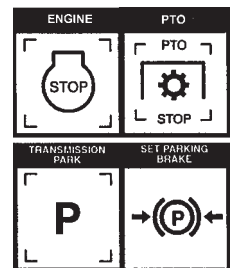


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

DANGER!



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



SAFETY

DANGER!



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

(SG-10)



DANGER!



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

(SG-11)



WARNING!



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

(SG-12)



DANGER!



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



DANGER!



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



DANGER!



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

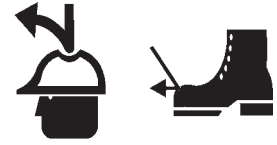


SAFETY

WARNING!



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



CAUTION!



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



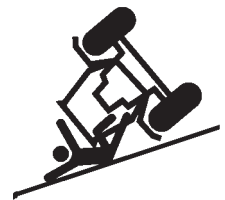
WARNING!



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

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

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



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

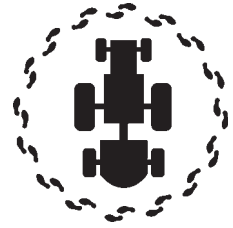
SAFETY

WARNING!



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

(SG-20)



WARNING!



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



WARNING!



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



DANGER!



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

(SG-23)

DANGER!



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



DANGER!



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

SAFETY

DANGER!



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



DANGER!



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

WARNING!



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

DANGER!



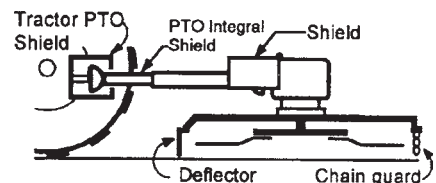
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless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



DANGER!



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



SAFETY

DANGER!



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

WARNING!



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



WARNING!



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

WARNING!

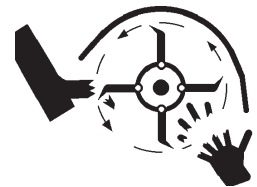


Mow at the speed that you can safely operate and control the tractor and mower. Safe mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 0 to 5 mph. Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead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

WARNING!



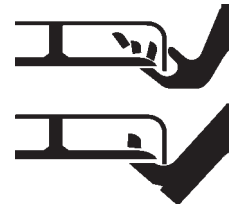
Avoid mowing in reverse direction when possible. Check to make sure there are no persons behind the mower and use extreme care when mowing in reverse. Mow only at a slow ground speed where you can safely operate and control the tractor and mower. Never mow an area that you have not inspected and removed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



WARNING!



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



DANGER!



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

SAFETY

WARNING!



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

DANGER!



Rotary and Flail Mowers are capable under adverse conditions of throwing objects for great distances (100 yards or more) and causing serious injury or death. Follow safety messages carefully.

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UNLESS:

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



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



DANGER!



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

(SBM-2)

DANGER!



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



WARNING!



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

(SBM-4)



WARNING!



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

“Wait a minute...Save a life!”

SAFETY

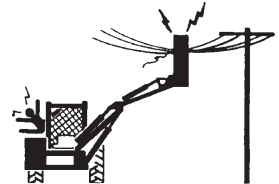


Relieve hydraulic pressure prior to doing any maintenance or repair work on the Implement. Place the Mower Head on the ground or securely supported on blocks or stands, disengage the PTO, and turn off the engine. Push and pull the control Levers or Joystick several times to relieve pressure prior to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

DANGER!



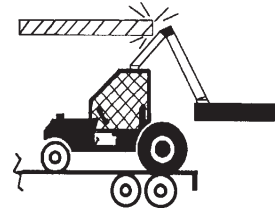
Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation. (SBM-7)



DANGER!



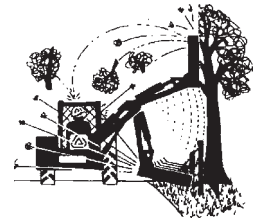
When transporting Boom Mower on a truck or trailer, the height or width may exceed legal limits when the boom is in the transport position. Contact with side or overhead structures or power lines can cause property damage or serious injury or death. If necessary lower boom to reduce height and/or remove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



DANGER!



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



DANGER!



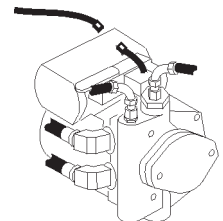
Left Rear Wheel must have a minimum of 1500 pound contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you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



DANGER!



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



DANGER!



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



SAFETY

WARNING!



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

WARNING!



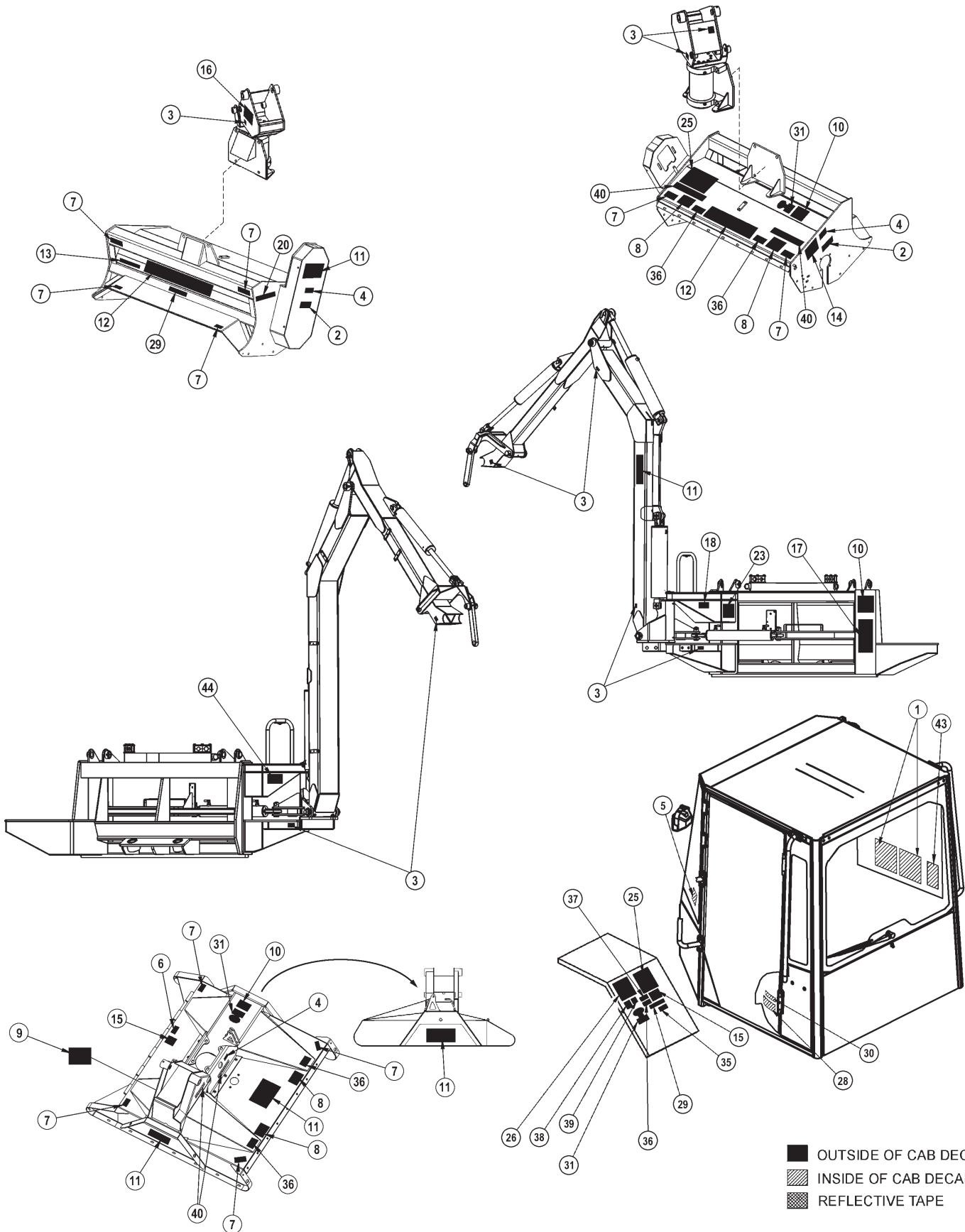
Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth or other reproductive harm. **Wash hands after handling!**

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

SEE YOUR  DEALER

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

SAFETY



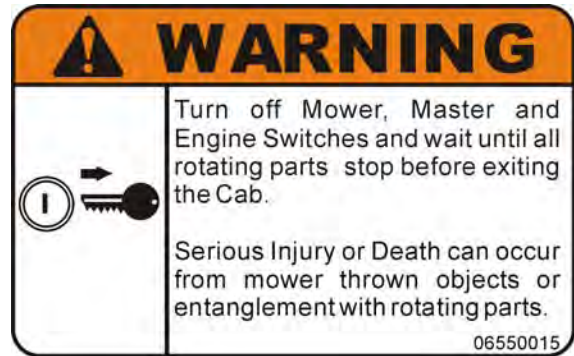
SAFETY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06550013	1	JOYSTICK OPERATION (FLAIL)
	06550014	1	JOYSTICK OPERATION (ROTARY)
2	6T3249A	2	DECAL, CAUTION LUBE
3	02962764	9	WARNING, PINCH POINT
4	22839	2	CAUTION, HAND GREASE ONLY
5	06550015	1	WARNING, CAB, EXIT
6	TB1011	1	WARNING, DO NOT REMOVE SHIELD
7	6T3217	10	DANGER, HANDS / FEET CLEAR
8	6T3224	4	DANGER, DISCHARGE OPEN
9	00769737	1	WARNING, BLADES THROWN OBJECTS
10	6T3236	3	DECAL, MADE IN U.S.A.
11	31522	5	DECAL, TIGER LOGO
12	32428	2	DECAL, TIGER SABER TOOTH
13	42400	1	AMBER REFLECTIVE TAPE
14	42350	1	CAUTION, BLADE ROTATION
15	33224	2	DANGER, SHIELD BOOM
16	02967668	1	DECAL, THROWN OBJECTS
17	31991	1	DECAL, TIGER LOGO, VERTICAL
18	02962765	1	DANGER, MULTIPLE HAZARD
20	00758194	1	WARNING, BELT SHIELD
23	02965262	1	WARNING, HOSE BURST
25	002369	2	DANGER, MULTIPLE HAZARD
26	32707	1	WARNING, TRACTOR OPERATOR SAFETY
28	6T3225	1	DANGER, LINE VOLTAGE
29	6T3243	2	WARNING, KNIFE REPLACEMENT
30	00725746	1	DECAL, SPANISH TRANSLATION
31	06550006	3	DECAL, REPLACEMENT PARTS
35	6T3221	1	CAUTION, SPINDLE LUB
36	24028	5	WARNING, REPLACE WORN
37	25387	1	WARNING, RELIEVE PRESSURE ACCUMULATED
38	6T3219	1	WARNING, FOR SAFE OPERATION
39	22840	1	WARNING, FOREIGN OBJECTS
40	42399	4	RED REFLECTIVE TAPE
43	33743	1	MOWING SAFETY TIPS
44	34852	1	LUBRICATION SPECIFICATION DECAL

SAFETY



DECAL PART NO.
LOCATION



06550015
ABOVE SWITCHBOX



00725746
INSIDE OF CAB



00769737
ROTARY DECK



002369
FLAIL DECK,
WHEEL FENDER

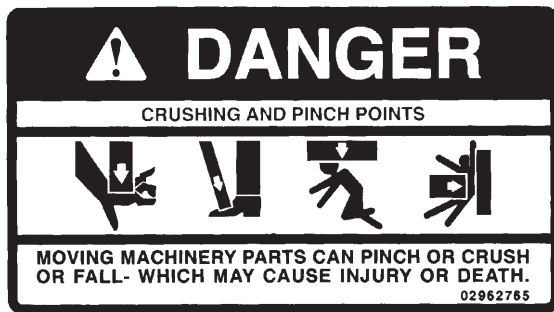


02962764
BOOM ARM, MAIN FRAME

SAFETY



00758194
FLAIL DECK



02962765
MAIN FRAME

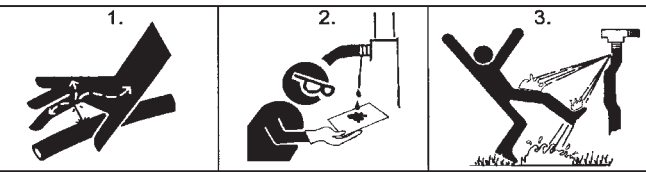


KEEP AWAY - ROTATING BLADES
BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH

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

02967668
FLAIL DECK

! WARNING!



DO NOT OPERATE EQUIPMENT WITH OIL LEAKS

1. High pressure fluid can be invisible and can be injected into the body through the skin. Serious injury or even death can result. A doctor familiar with this type of injury must surgically remove the injected fluid immediately.
2. You should visually inspect for hydraulic fluid leaks before using the equipment. Never use your hand to check for leaks. Wear oil impervious gloves, safety glasses, and use a piece of wood or cardboard to check for evidence of leaks. If you suspect a leak, Remove the hose and have it tested at a Dealer.
3. Inspect hoses regularly. Frayed, torn, or crimped hoses may rupture suddenly and violently resulting in serious bodily injury from a flying hose end or from scalding, burn injuries, or oil penetration. Oil sprayed on hot equipment or components can result in fire. Repair or replace hoses as indicated to prevent unexpected failure and possible serious injury to operator or bystanders.

KEEP SHIELDS OVER HYDRAULIC COMPONENTS IN PLACE
02965262

02965262
MAIN FRAME



22840
WHEEL FENDER

SAFETY

WARNING

INSPECT REAR FLAP FREQUENTLY TO BE SURE IT IS IN SAFE WORKING CONDITION. DO NOT OPERATE MOWER WITH FLAP REMOVED OR WORN.

24028

24028
MOWER DECK,
WHEEL FENDER



10" x 5.5" 31522
MOWER DECK, MAIN BOOM

CAUTION

LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. **WITH MOWER AND TRACTOR OFF**, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING.

NOTE: SEE OPERATORS MANUAL FOR SUBSTITUTE LUBRICANT AND MORE DETAILED INSTRUCTIONS.

6T3221

6T3221
ROTARY DECK

WARNING

RELIEVE ALL PRESSURE IN HYDRAULIC LINES BY SHUTTING TRACTOR OFF, SETTING BOOM ON THE GROUND AND ACTUATING LIFT VALVE HANDLES BEFORE DISCONNECTING HOSES.

25387

25387
WHEEL FENDER

DANGER

SAFETY SHIELD OPERATION

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

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

33224

33224
ROTARY DECK,
WHEEL FENDER

SAFETY

! DANGER

1. EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POUNDS CONTACT WITH THE SURFACE TO PREVENT LATERAL INSTABILITY AND POSSIBLE TIP-OVER WITH BODILY INJURY. WIDEN WHEEL HEAD AND ADD WEIGHTS IF NEEDED. SEE MANUAL OR CALL TIGER CUSTOMER SERVICE FOR COUNTERWEIGHT PROCEDURE.

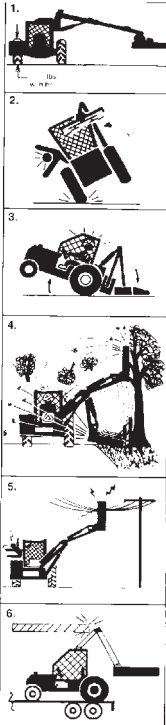
2. TRANSPORT CAREFULLY! SLOW DOWN EVEN MORE ON SLOPES AND WHEN TURNING, NEVER TURN UP A SLOPE SHARPLY OR AT HIGH SPEED, AND USE EXTRA CARE IN ROUGH OR BUMPY AREAS TO PREVENT OVERTURN AND POSSIBLE CRUSHING INJURY OR DEATH. IF YOUR VIEW TO THE REAR IS BLOCKED, IT IS YOUR RESPONSIBILITY TO INSTALL MIRRORS THAT PROVIDE A REAR VIEW TO PREVENT ACCIDENTS FROM BLIND SPOTS.

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

4. NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD THINNING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.

5. KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.

6. WHEN TRANSPORTING BOOM MOWERS ON A TRUCK OR TRAILER, THE HEIGHT OR WIDTH MAY EXCEED LEGAL LIMITS. CONTACT WITH SIDE OR OVERHEAD STRUCTURES OR POWER LINES CAN CAUSE SERIOUS INJURY OR DEATH. LOWER BOOM TO REDUCE HEIGHT AND/OR REMOVE MOWING HEAD TO REDUCE WIDTH TO THE LEGAL LIMITS, IF NEEDED. 32707

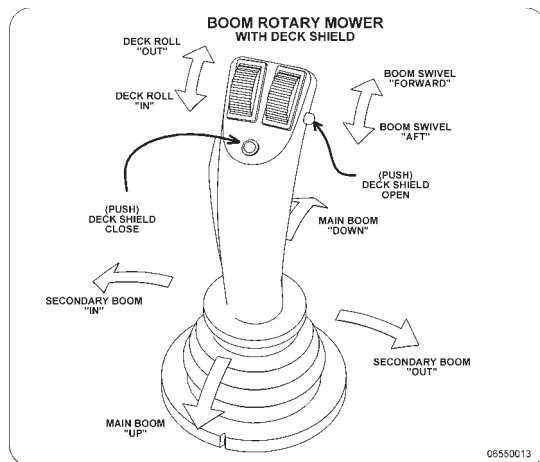


IMPORTANT

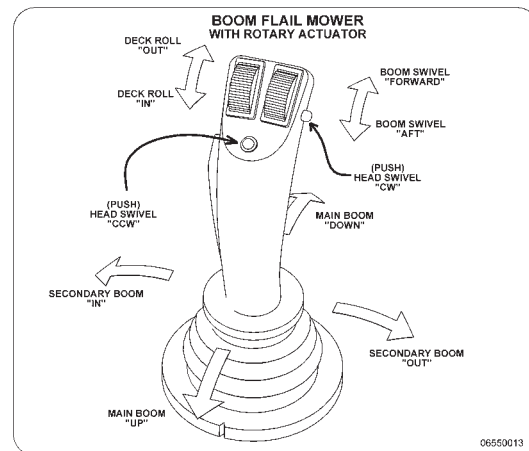
For your safety and to guarantee optimum product reliability, always use Genuine TIGER replacement parts. The use of inferior "will-fit" parts will void Warranty of your TIGER implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions concerning the repair parts you are using, contact TIGER MOWERS, 3301 N. LOUISE AVE. SIOUX FALLS, SD 1-800-843-6849 WWW.TIGER-MOWERS.COM

32707
WHEEL FENDER

06550006
WHEEL FENDER,
MOWER DECK



06550014
INSIDE OF CAB
ROTARY



06550013
INSIDE OF CAB
FLAIL

SAFETY



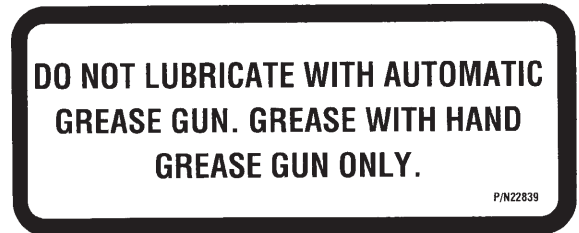
6T3217
MOWER DECK



42350
FLAIL DECK



33743
INSIDE OF CAB



22839
MOWER DECK



6T3224
MOWER DECK

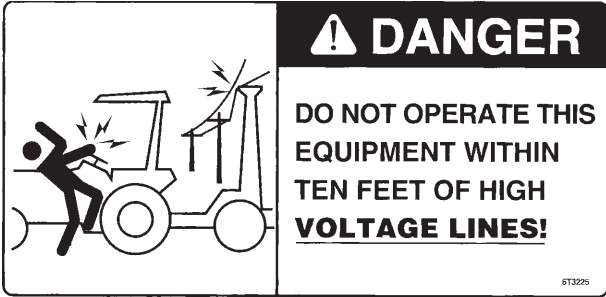


42399 RED REFLECTIVE TAPE
MOWER DECK

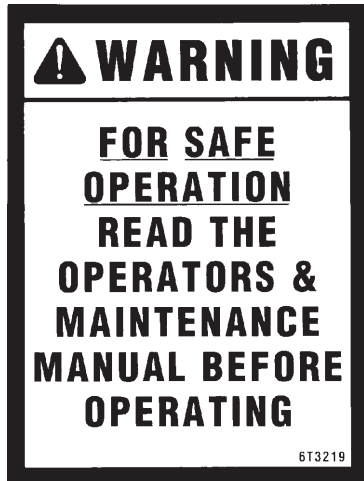


42400 AMBER REFLECTIVE TAPE
MOWER DECK

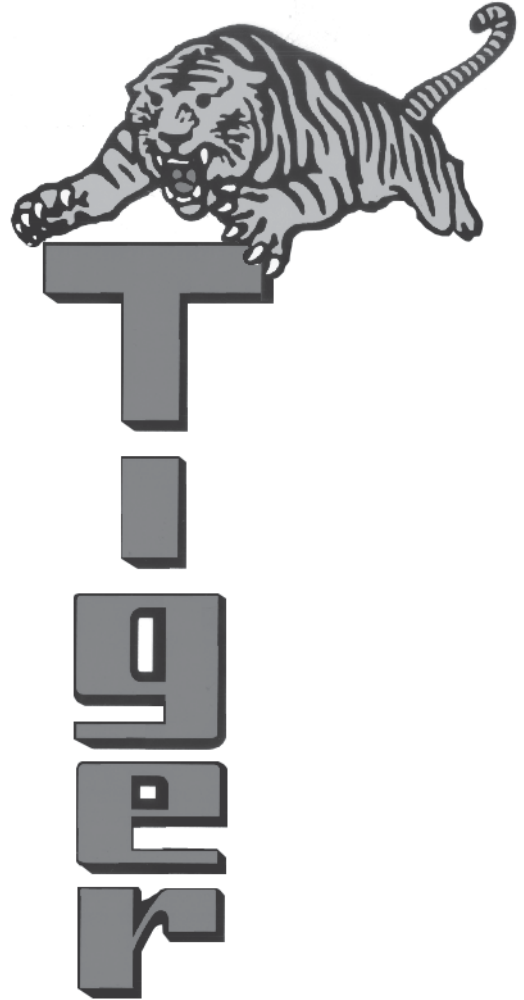
SAFETY



6T3225
INSIDE OF CAB



6T3219
WHEEL FENDER



31991
MAIN FRAME



SABER TOOTH

Tiger
MOWER

32428

32428
FLAIL HEAD
Safety Section 1-19

SAFETY



6T3236
 MOWER DECK, MAIN FRAME

GREASING INSTRUCTIONS
CUTTER SHAFT BEARING
 GREASE EVERY 8 HRS. OR DAILY

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

#T3249A

6T3249A
 FLAIL DECK

<p>⚠ WARNING</p> <p><small>IT IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED. REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FAILURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH.</small></p>	<p>IMPORTANT</p> <p><small>• WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. • SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS.</small></p> <p style="text-align: right;"><small>6T-3243</small></p>
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6T3243
 FLAIL HEAD, WHEEL FENDER

⚠ WARNING

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

TB1011

TB1011
 ROTARY DECK



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

Description	Application	General Specification	Recommended Lubricant
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Drive Shaft Coupler (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease® CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Tiger Part #25351

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

Tiger PN 34852

 HYDRAULIC TANK

SAFETY

⚠ DANGER

KEEP AWAY! IF FRONT DEFLECTOR SHIELD IS REMOVED FROM FLAIL HOUSING, SERIOUS INJURY TO OR AMPUTATION OF HANDS, FEET, OR LIMBS MAY OCCUR FROM BLADES CONTACT.


If the Front Deflector Shield is Removed, the OPERATOR MUST BE AWARE of the resulting potential hazard and use special care to make certain that:

1. The flail mower is NOT OPERATED where bystanders, human dwellings, vehicles, or livestock are within 30 feet of the mower to prevent contact with thrown objects or blades that can result in serious injury.
2. The operator NEVER LEAVES THE SEAT nor allows anyone to approach the flail mower until the PTO hydraulic power are disengaged from motors, flail sections are lowered to the ground, engine is turned off parking brake is set, key is removed and all motion ceases.
3. The FRONT DEFLECTOR SHIELD IS REPLACED and maintained in good working condition whenever the mower is used for highway, right-of-way, parks, domestic, or greenbelt areas.

002425

002425
CAB

⚠ WARNING



Cutting while Flail Head is raised off ground will allow high-speed Flail Blades to throw cuttings at high speed for a considerable distance. Thrown objects can cause serious bodily injury. Stop mowing when traffic, crew members, or passersby are within 100 yards of mowing with head off ground.

02965141

02965141
CAB

⚠ WARNING

BE AWARE	BE TRAINED
BE ALERT	BEFORE OPERATING
BE ALIVE	THIS CUTTER

To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices.

Tiger Corporation, AEM, and FEMA provide training material that is critical for your Safety and the Safety of others when operating this equipment. Make these Safety Procedures an important part of every workday.

Read and understand the Operator's Manual

Do not let untrained individuals operate this equipment.

Contact your Dealer, AEM (414-272-0943, www.aem.org), FEMA (314-878-2304, www.FarmEquip.org), or TIGER (605-336-7900, www.tiger-mowers.com) for information on training material or courses that provide training in Safer Operating Practices for Cutters.

D352

D352
CAB

NOTICE TO OWNER

An OPERATOR'S MANUAL (with Repair Parts Listing) and a WARRANTY REGISTRATION CARD were attached to this implement during final inspection at the factory. If they were not attached at the time of purchase, please contact your selling dealer at once.

1. Read and understand Manual before operating the implement.
2. Complete, sign, and mail the Warranty Registration Card in today.

00763977

00763977
CAB



03200347
REAR OF TRACTOR

SAFETY

⚠ PELIGRO	
<p>Un manual de la seguridad de la línea de conducción n/p 00773776 está disponible en español. Llame el número enumerado para una copia gratis.</p>	<p>LÍNEA DE CONDUCCIÓN GIRATORIA- EL CONTACTO PUEDE CAUSAR LA MUERTE ¡MANTENERSE LEJOS! NO FUNCIONE SIN QUE-</p> <ul style="list-style-type: none"> • Todos los protectores de la línea de conducción, alimentador y blindajes del equipo estén en su lugar. • Las líneas de conducción estén conectadas con seguridad en ambos extremos. • Los protectores de la línea de conducción den vuelta libremente en la línea de conducción. <p style="text-align: right;">00773723</p>

00773723
CAB

⚠ WARNING

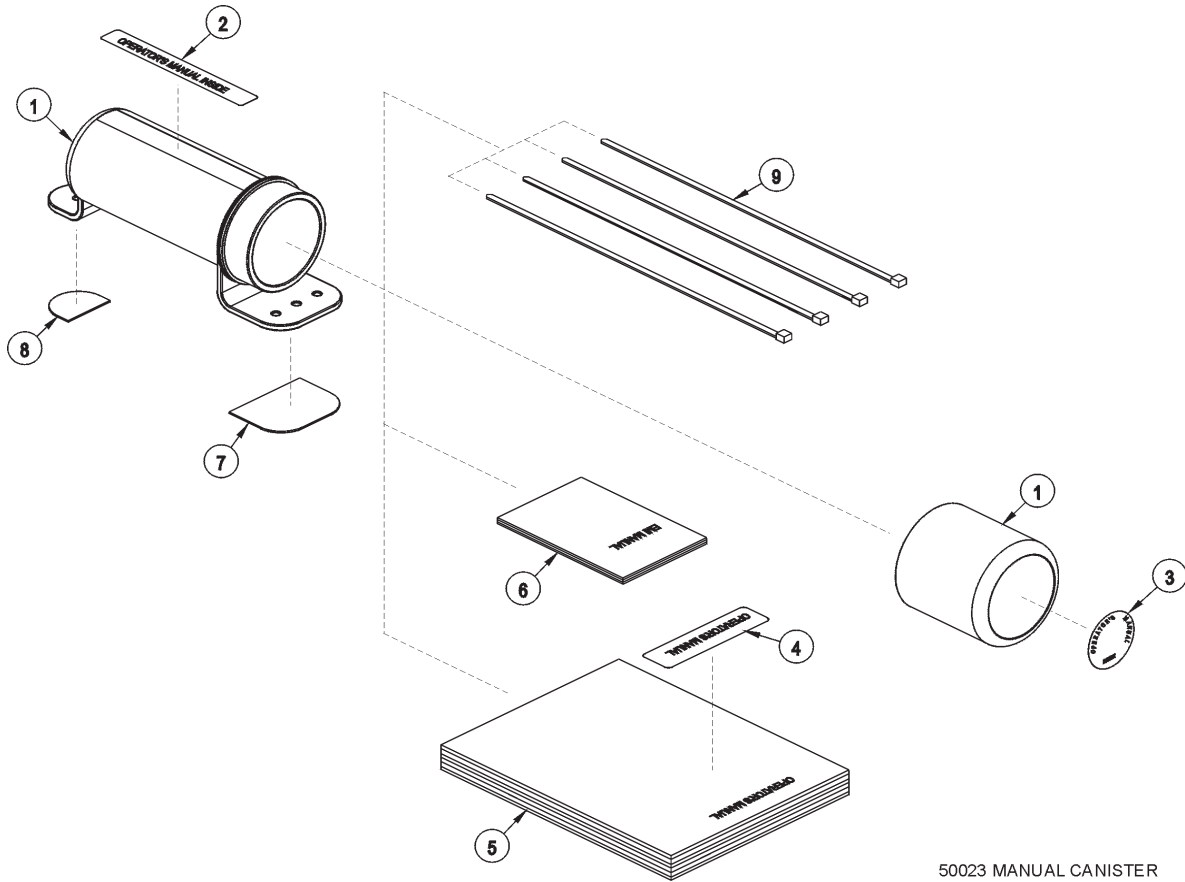
<p>GUARD MISSING DO NOT OPERATE</p> <p style="text-align: right; font-size: small;">00775933</p>

00775933
FLAIL HEAD
BELT COVER

⚠ WARNING	
<ul style="list-style-type: none"> • Tractor's rearing up may cause machine damage, injury, or death. • Never use tractor without ROPS. • Keep seatbelt fastened snugly to prevent falling off and injury. NO RIDERS. 	
<ul style="list-style-type: none"> • Add tractor front weight as needed to maintain safe steering traction. • Slow down in curved and rough places. • Stay away from soft banks and holes. 	<ul style="list-style-type: none"> • Never start or accelerate suddenly to maintain safe steering traction. • Do not lift heavy implement while going up steep slopes. <p style="text-align: right; font-size: x-small;">999001</p>

999001
CAB

SAFETY



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

NOTE:

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

SAFETY

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

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

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

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

OSHA Regulations

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

Employer Responsibilities:

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

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

Child Labor Under 16 Years of Age

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

SAFETY

SAFETY

ASSEMBLY SECTION

ASSEMBLY

Before attempting to mount or service your Tiger 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!



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

Read and understand the entire assembly section instructions before attempting to mount your Tiger mower. Refer to the parts section of the manual for detailing illustrations to locate all parts.

TRACTOR PREPARATION

A: Disconnect battery cables.

B: Remove lower skirts of cab to access wires routed through cab floor.

POLYCARBONATE SAFETY SCREEN

NOTE: Installing the Tiger boom mower requires that the right side window be protected with a polycarbonate screen. Remove the door on the right side of the cab, and the door hinges from the cab.

Place safety screen frame on top of right hand door WITH protective pads. Use the frame as a template to drill two 25/64" holes at a 1/4" depth(The depth is important due to components in the tractor door.) Install the two(2) threaded inserts in the holes with proper tool for installing threaded inserts. Peel back the protective paper from the area around the screen that will contact the frame. Place the polycarbonate screen on the frame, and clamp together. Next drill 20, 3/16" holes through the polycarbonate evenly spaced around the frame, and secure the polycarbonate screen with 3/16" pop rivets.

Last install the door in the original position that it was taken from, with the original hinges. (Refer to the Parts Section Polycarbonate Safety Screen for an assembly diagram).

SWITCH BOX MOUNTING

On the left side of the steering wheel, locate the panel under the air vent. Mount the switch box to the brackets with the machine screws provided. Using the mounting brackets as a template mark the holes to be drilled. Drill four(4) 5/16" holes in the panel for the mounting brackets. Remove the panel. Attach the switch box and mounting brackets to the dash with the hardware shown in the parts section and replace the panel.

ASSEMBLY

CAUTION!



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



SWITCH BOX WIRING

At the left front corner of the cab floor, drill a 1-1/2" hole through the floorboard approximately 4 inches from the front wall of the cab and 1 inch from the side wall. Use a hole saw to make a hole through the floor mat. Use the retaining nut of the Danfoss harness to secure the Upper section of the harness to the floor.

Refer to the parts section for wiring diagrams. Route the wires, that hook into the power source, under the steering wheel console. Splice into the power source in the back of the ignition switch under the right hand console.

(NOTE: Power should be "running" through these wires ONLY when the tractor ignition is in the "ON" position, check with a volt meter before splicing.)

JOYSTICK CONTROL MOUNTING

NOTE: Before drilling holes check for weldments and wires under the cab floor.

On the right side of the cab floor, drill a 5/16" hole 6" from the door frame and 2-1/4" from the tractor joystick console. Using the joystick mounting bracket as a template mark the next hole 2-3/4" from the door. Mark the third hole and drill the holes. Use the hardware provided to attach the mount to the floor. Use the weather-pak connector to connect the wires from the switch box to the wires in the joystick cable. Use the retaining nut of the Danfoss harness to secure the upper section of the harness to the floor. Plug the Danfoss harness into the floor.

ASSEMBLY

JOYSTICK CONTROL WIRING

On the cab floor, drill a 1-1/2" hole through the floorboard along the right side of the floor 4-1/2" from the door and 2" from the tractor joystick console. Make sure to avoid the weldment and wires under the cab of the tractor. Use a hole saw to make a hole through the floor mat. Use the retaining nut of the Danfoss harness to secure the upper section of the harness to the floor. Plug the cable from the loader arms into the harness on the floor of the cab. If stowing the Tiger main frame the lower harness section can be disconnected. When disconnecting the lower harness connector, separate the two sections of the cap on the chain. Thread the section attached to the chain to the floor harness and thread the other section to the Danfoss connections.

The power source comes from the switch box splicing into the back of the ignition switch. Connect into the switch box power with the Weather Pak connectors.

RETURN LINE INSTALLATION

Locate the left side quick couplers on the loader arm. The return line for the lift valve is the second from the bottom. Run the 3/4" hose through the small hole on the hose clamp on the top of the main frame, but do not tighten. Attach the 3/4" adapter and then the quick coupler to the end of the hose going to the loader arms. Attach the 3/4" adapter to the return port on the lift valve. Connect the 3/4" hose to adapter on the lift valve. (Before tightening the hose clamp, make sure the hose to the brake valve is running through the larger hole and there is enough slack to the valves so the hoses are not touching.)

PRESSURE LINE INSTALLATION

Locate the right side quick couplers on the loader arm. The pressure line for the lift valve is the second from the bottom. Run the 3/4" hose through the small hole on the hose clamp on the top of the main frame, but do not tighten. Attach the 3/4" adapter and then the quick coupler to the end of the hose going to the loader arms. Attach the 3/4" elbow to the pressure port on the lift valve. Connect the 3/4" hose to the elbow on the lift valve. (Before tightening the hose clamp, make sure the hose to the brake valve is running through the larger hole and there is enough slack to the valves so the hoses are not touching.)

DANFOSS VALVE MOUNTING

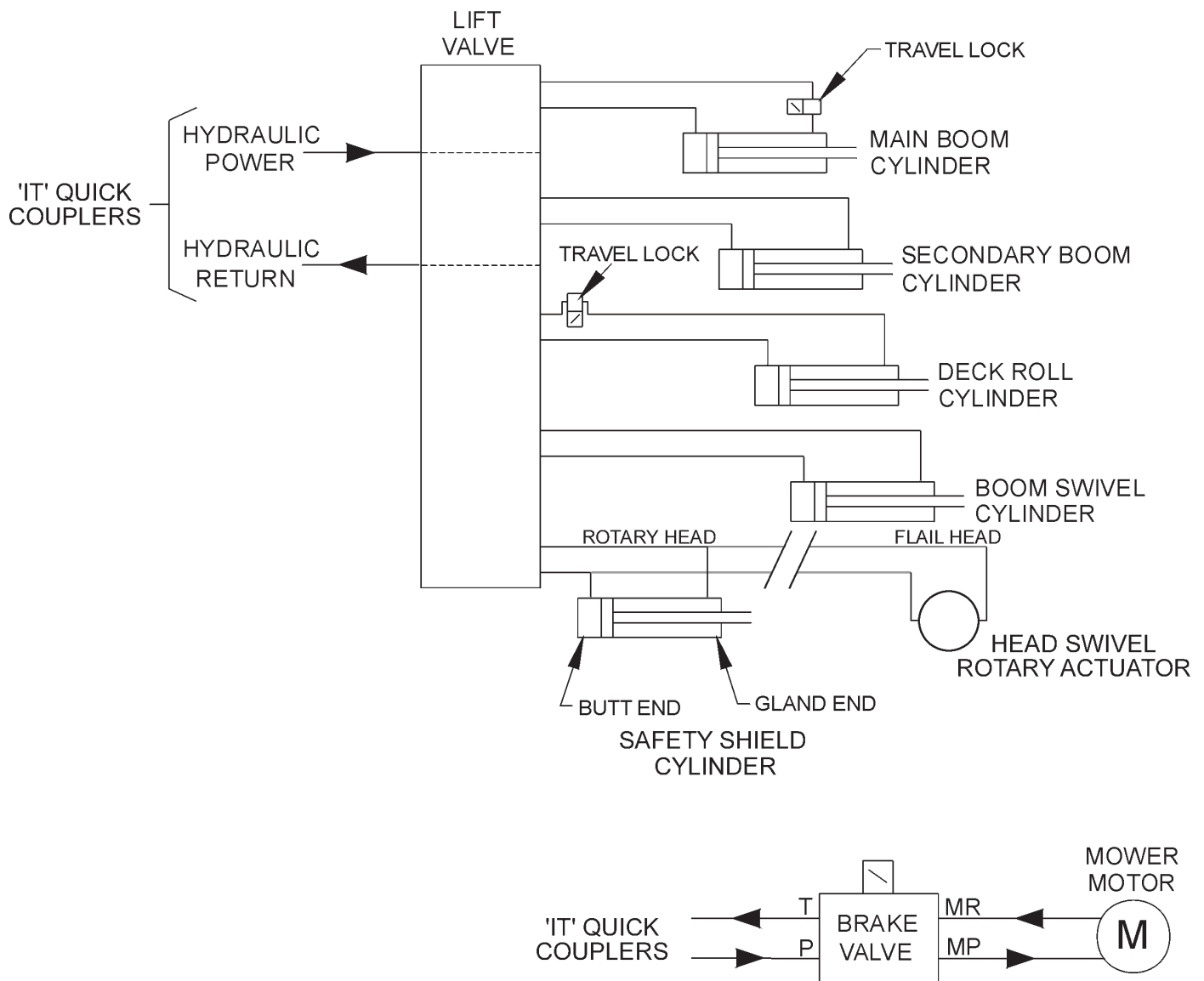
Use the hardware provided to mount the valve to the mounting bracket on the front of the main frame. After connecting the pressure and return lines to the valve, attach the adapters to the valve as shown in the parts section. Attach the travel lock to the "A" port of the 3rd section. Connect the 3/8" hose to the travel lock with the adapter shown in the parts section. Attach the 90 degree 3/8" hoses to the rest of the adapters on the Danfoss valve.

ASSEMBLY

ACCUMULATOR INSTALLATION

Install the accumulator on top of the Danfoss valve as shown in the common parts section. First attach the adapter to the "A" port of the main boom section shown in the parts section. Install the run tee to the adapter and attach the accumulator to the top of the run tee. Connect the hose for the main boom cylinder to the run tee.

BOOM HYDRAULIC DIAGRAM



1320 HYDRAULIC DIAGRAM

ASSEMBLY

MAIN FRAME INSTALLATION

Assemble the switch box and brake valve according to the parts section. Attach the bulkhead connectors for the Danfoss harness' to the rings beside the hose clamps at the top of the main frame. Connect the chain from the Danfoss harness to the chain on the cap of the bulkhead connector.

On the hoop above the swivel bracket attach the hose return spring to the spring catch on the under side of the top of the hoop. Connect the other end of the spring to the eyelet on the hose retaining strap. Run the hoses through the hoop when connecting the hoses from the Danfoss and brake valves to the preformed tubes. Wrap the hose retaining strap around the hoses to keep them from wearing and being pinched.

Attach the swivel pads and hose clamps with hardware provided. Refer to the parts section for parts and diagrams.

SWIVEL BRACKET MOUNTING

Install the swivel onto the main frame with the swivel pin. Secure the pin in place using the capscrews, etc. through the hole in the boss and pin. NOTE: The head of the capscrew must be toward the front of the tractor.

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

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

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

Now the hoses can be attached from the control valve to the swing cylinder.

MAIN BOOM INSTALLATION

Install the boom swivel into the main frame as shown in the parts section using a hoist. Line up holes in swivel and main frame for large swivel pin and insert pin. Secure with hardware as shown. Inspect the inner boom end, and align grease hole in bearing with boom grease zerks. Attach the inner end of the main boom to the swivel bracket with the cylinder anchors positioned upward, and at a right angle to the tractor. Secure it with the horizontal hinge pin. Secure the hinge pin in the boss with the hardware illustrated in the parts section.

Install the fittings and hose to the butt end of the large main boom cylinder. Install the travel lock with the restrictor on the rod end of the main boom cylinder. These should be facing the butt end of the cylinder after installation.

Install main boom cylinder on the main boom with the fittings facing upwards. Attach the butt end to the cylinder to the swivel bracket anchor with the special "bracket head" cylinder pin and roll pin shown in parts section. Attach the cylinder rod end clevis to the main boom with the cylinder pin and two roll pins.

GREASE HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED

ASSEMBLY

PREFORMED TUBE INSTALLATION

Lay booms on floor so the side with the nuts welded on is up. If mounting a ditcher head, only the main boom tube installation is required. Locate all tube clamps and install them loosely in the welded nuts on the left side of the booms.

Arrange the tubes and hoses as outlined in the parts section diagram. Install the smaller tube closest to the boom arm, being careful not to pinch the tubes. Place the large tubes outside of the small tubes. Snug all clamp bolts, but do not tighten. Check all tubes for correct alignment and that none are pinched or bent. The clamp bolts can now be tightened.

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the main boom and secondary boom with the black hose cover, secure with the velcro straps. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties.

COUNTER WEIGHT MOUNTING

Twenty(26) 76 pound counter weights are required for the left side of the main frame. It will be necessary to mount the counter weights on the main frame using long capscrews and flatwashers per diagram in the parts section. Installation is done most easily with a small forklift.

Align the plates so the holes match up to the threaded holes in the main frame. Attach the plates to the main frame with the capscrews and flatwashers as shown in the parts section.

DECK ATTACHMENT

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

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

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

Before proceeding to the next assembly step, double check the complete assembly from the main frame to the cutter head against the diagrams in the parts section for proper placement and assembly of all components.

ASSEMBLY

ATTACHING LOCKOUT ARM LINKS

Use the Lockout Arm Links to attach the main frame to the lockout clamps. Attach the links to the top of the main frame with 1-1/2" x 8-1/8" pins. Secure the pins with the capscrews and nuts provided. Attach the links to the lockout clamps with 1-1/2" x 5-3/4" capped pins. Secure the pins with the lynch pins provided.

CUTTERSHAFT BEARING ASSEMBLY

Tiger Part number 06520089

1. Belt drive end:
 - Mount non-expansion bearing on this end first per bearing instructions.
2. Opposite belt drive
 - Move snap ring to outer ring groove to create an expansion bearing. This allows bearing to move axially within housing.
 - Install bearing with snap ring set to outer ring groove.
 - Slide bearing axially toward aforementioned snap ring.
 - Tighten per bearing instructions. This allows bearing to move away from center of cutter shaft without creating a pre-load on the bearing.

EXTENDING ZERK ON FLAIL HEAD

Due to the belt shield covering the cutter shaft bearing on the flail head a hose, elbow, & grease zerk have been added to the bearing. Remove the existing grease zerk from the bearing and discard. Attach the elbow to the bearing. Next, the hose is attached to the elbow and routed through the belt shield (shown below) and attached to the outside of the shield. The additional zerk is connected to the end of the hose for easier bearing maintenance.



ATTACH
HOSE HERE

ASSEMBLY

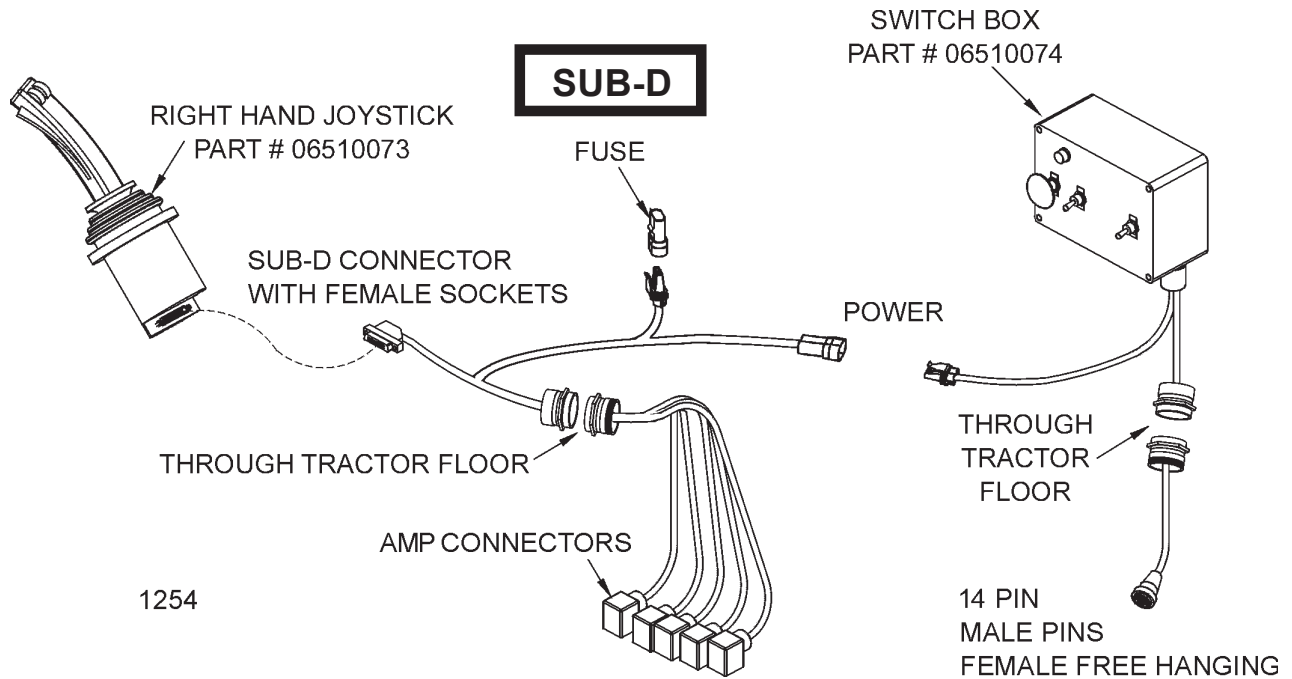
THROTTLE LOCK ASSEMBLY

Use the existing holes behind the throttle pedal, to mount the base for the throttle lock, with the hardware shown in the parts section. Assemble the throttle lock as shown in the parts section.

Attach the mounting bar to the cab wall using existing hardware. The spring is attached to the pin at the back of the throttle lock. The other end of the spring hooks to hole that is closest to the corner of the mounting bar. Refer to the parts section for the hardware used.

ASSEMBLY

BOOM JOYSTICK CONTROL CALIBRATION



CAUTION!



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

Note: These potentiometers have 270° total adjustment. Use a phillips screw driver and be sure to adjust the screws carefully! DO NOT turn the potentiometers beyond their stopping point, potentiometers are very delicate! Turning the potentiometers clockwise increases the oil flow to increase the boom function speed, and turning them counterclockwise decreases the oil flow to decrease the boom function speed. See the graphic on page 2-14 for help in adjusting.

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

Set the dead band compensation potentiometer first.

(continued)

ASSEMBLY

SUB-D

Setting Signal Adaptation Potentiometers:

A full counter clockwise setting of the dead band potentiometer provides the maximum amount of dead band. Turn full clockwise and then back 150° counter-clockwise to set.

MAIN BOOM: "A" Port Potentiometer: 100° Counter-clockwise (i.e.: turn screw full clockwise, then turn it 100° counter-clockwise)

"B" Port Potentiometer: Set to full Counter-clockwise

SECONDARY

BOOM: "A" Port Potentiometer: 90° Counter-clockwise

"B" Port Potentiometer: 110° Counter-clockwise

DECK ROLL: "A" Port Potentiometer: 225° Counter-clockwise

"B" Port Potentiometer: 180° Counter-clockwise

BOOM

SWIVEL: "A" Port Potentiometer: 135° Counter-clockwise

"B" Port Potentiometer: 40° Counter-clockwise

(continued)

ASSEMBLY

SUB-D

After making the initial adjustments, time each boom function, and refine the adjustments to meet the following cycle times:

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

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

“B” Port, Boom Down: 6-8 Seconds

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

SECONDARY

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

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

“B” Port, Boom In: 8-10 Seconds

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

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

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

“B” Port, Deck In: 7-9 Seconds

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

BOOM

SWIVEL: “A” Port, Boom Aft: 16-18 Seconds

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

“B” Port, Boom Forward: 16-18 Seconds

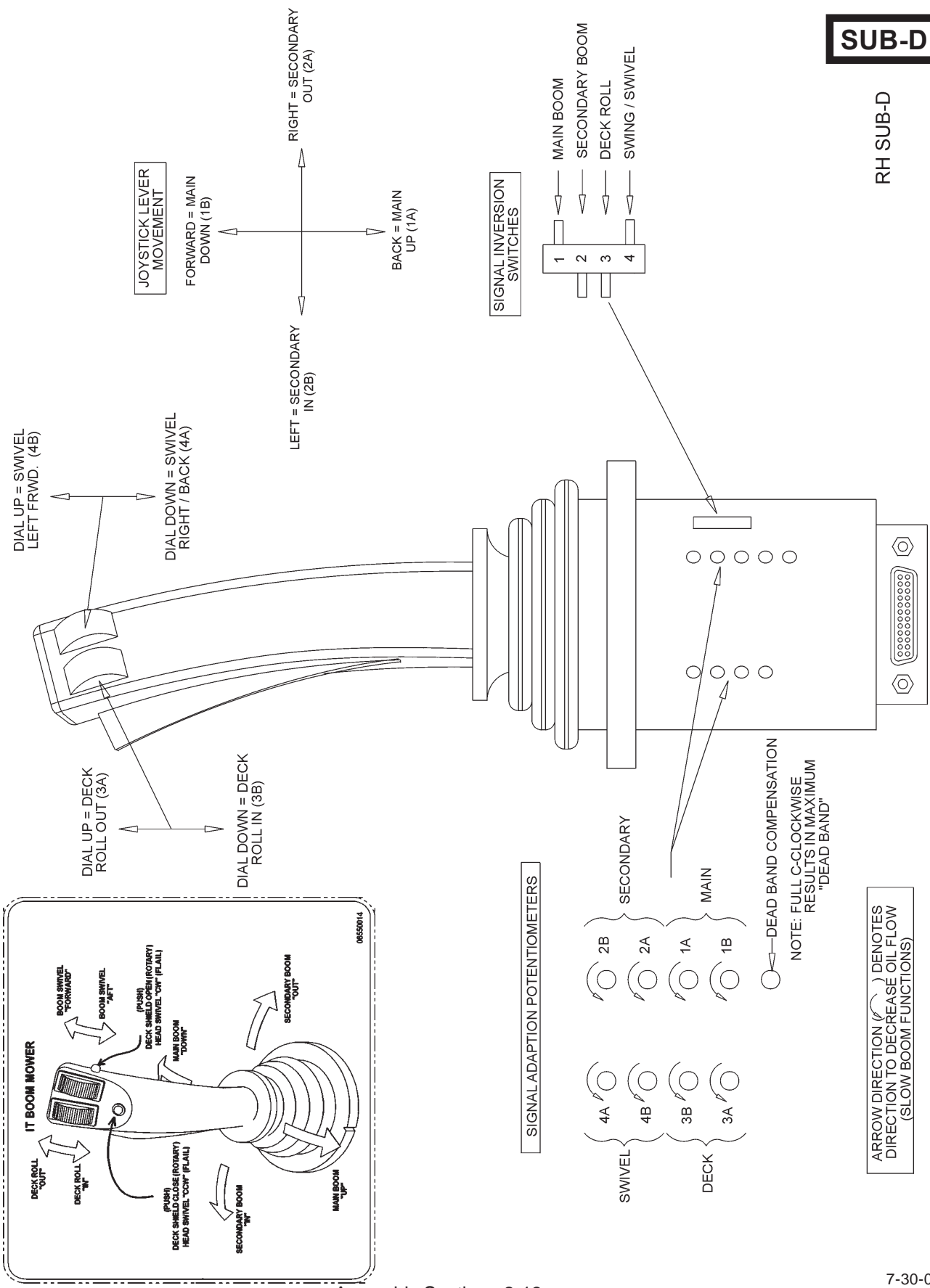
(Extend booms completely, rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom full aft. Then index the boom swivel “forward”

(continued)

ASSEMBLY

SUB-D

RH SUB-D



ASSEMBLY

COUPLE LOADER AND MAIN FRAME

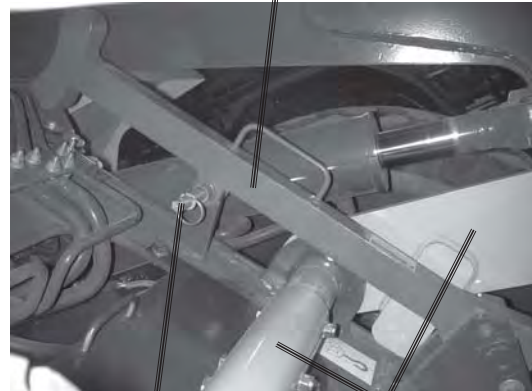
1. Lower 'IT' loader, position bucket tilt "forward", and index male coupler into female coupler on mower main frame.
2. Connect male and female hydraulic "quick couplers" from the mainframe to ports on the loader. Also connect the electrical connectors.
3. Using the Danfoss joystick, pull boom arm in, to stowed position.
4. Lift the loader and articulate the bucket tilt "aft" completely.
5. Actuate the locking pins on the loader to secure the main frame to the front of the loader.
6. Level bucket tilt, raise loader arms to use maintenance prop(per instructions in tractor manual.)
7. Lower loader arms to rest on maintenance prop.
8. Install loader lockout arms with pins per parts section.
9. Raise loader arms and stow maintenance prop(per instructions in tractor manual.)
10. Lower loader arms to index torsion tube into loader lockout arms.
11. Secure loader lockout arms with bolt on caps. Torque bolts to 331 Ft-lbs. (dry).
12. Level bucket tilt.
13. Install loader lockout links from mower frame to loader lockout arms.

LOADER/MAIN FRAME COUPLING

FEMALE
COUPLER ON
MAIN FRAME



MAINTENANCE PROP



MAINTENANCE PIN

LOADER LOCKOUT ARMS

TORSION TUBE / LOADER LOCKOUT ARM

BOLT ON CAP
LOADER LOCKOUT
ARM

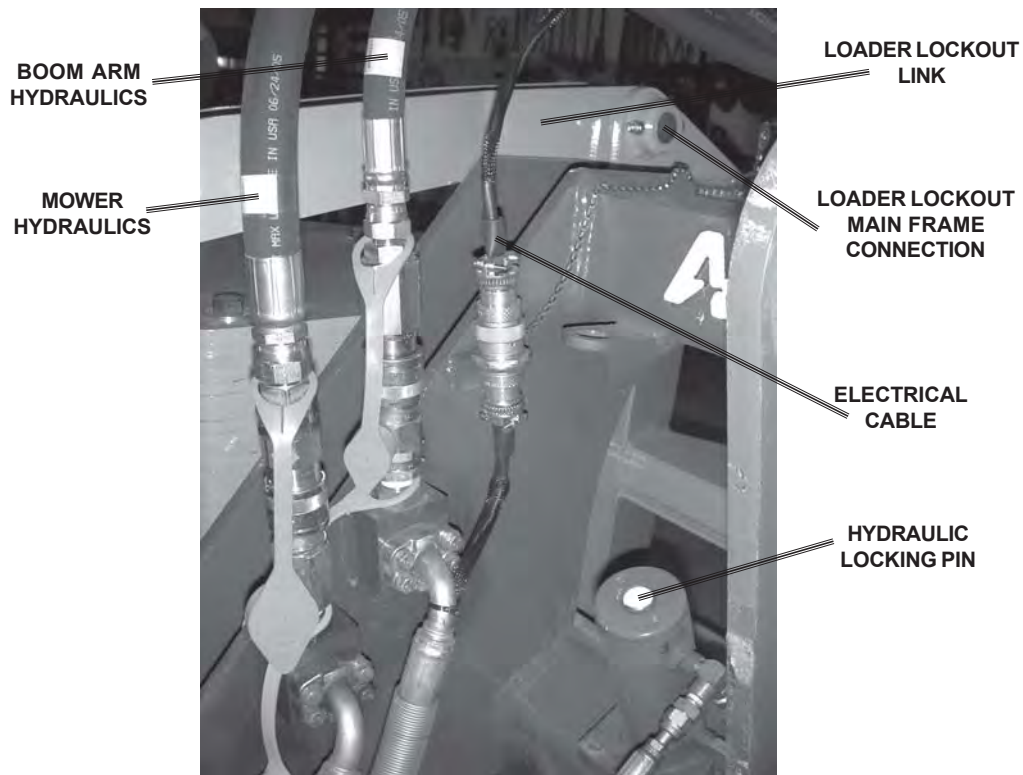


LOADER LOCKOUT
LINK

TORSION TUBE

ASSEMBLY

FRONT OF LOADER



UNCOUPLE LOADER AND MAIN FRAME

1. Shut off mower and wait for mower to come to complete stop. Position boom arm into stowed position.
2. Make sure bucket tilt is level. Disconnect loader lockout links from bolt on caps of lockout arms.
3. Remove bolts and remove caps of loader lockout arms.
4. Raise loader arms to use maintenance prop(per instructions in tractor manual.)
5. Lower loader arms to rest on maintenance prop.
6. Remove loader lockout arms per parts section.
7. Raise loader arms and stow maintenance prop(per instructions in tractor manual.)
8. Lower the loader arms to rest on the ground.
9. Rest the mower head on the ground.
10. Retract the locking pins on the loader to release the main frame.
11. Disconnect the hydraulic “quick couplers” and electrical connectors. Screw electrical connectors into dust caps/plugs.
12. Position bucket tilt “forward” and lower loader arms.
13. The loader should be free for other applications.

ASSEMBLY

FINAL PREPARATION FOR OPERATION

Place operators safety and operation decals on the unit as shown in the safety section where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the safety and operation section of this book. The decals are to be maintained in good readable 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 tractor manual) and the filter. 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 UNIT IS COMPLETELY COUPLED TO TRACTOR! 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. 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

NOTE: TO TURN ON THE TRACTOR THE MASTER SWITCH ON THE SWITCH BOX MUST BE OFF

COUPLE LOADER AND MAIN FRAME

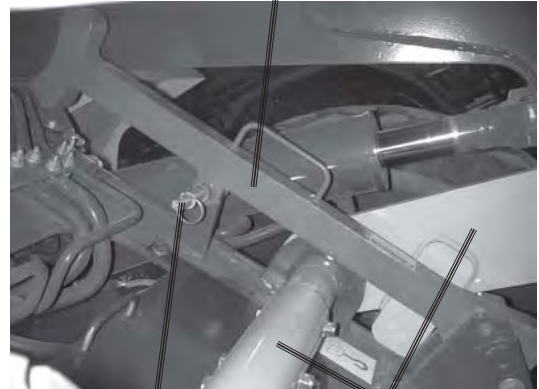
1. Lower 'IT' loader, position bucket tilt "forward", and index male coupler into female coupler on mower main frame.
2. Connect male and female hydraulic "quick couplers" from the mainframe to ports on the loader. Also connect the electrical connectors.
3. Using the Danfoss joystick, pull boom arm in, to stowed position.
4. Lift the loader and articulate the bucket tilt "aft" completely.
5. Actuate the locking pins on the loader to secure the main frame to the front of the loader.
6. Level bucket tilt, raise loader arms to use maintenance prop(per instructions in tractor manual.)
7. Lower loader arms to rest on maintenance prop.
8. Install loader lockout arms with pins per parts section.
9. Raise loader arms and stow maintenance prop(per instructions in tractor manual.)
10. Lower loader arms to index torsion tube into loader lockout arms.
11. Secure loader lockout arms with bolt on caps. Torque bolts to 331 Ft-lbs. (dry).
12. Level bucket tilt.
13. Install loader lockout links from mower frame to loader lockout arms.

LOADER/MAIN FRAME COUPLING

FEMALE
COUPLER ON
MAIN FRAME



MAINTENANCE PROP



MAINTENANCE PIN

LOADER LOCKOUT ARMS

TORSION TUBE / LOADER LOCKOUT ARM

BOLT ON CAP

LOADER LOCKOUT
ARM

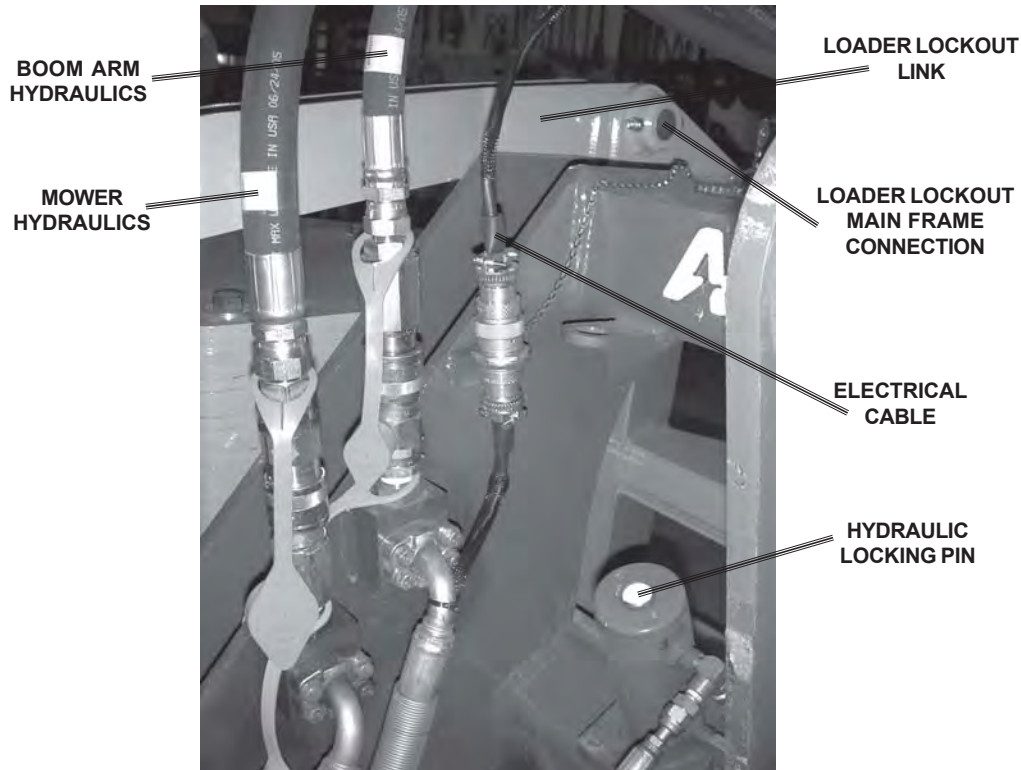


LOADER LOCKOUT
LINK

TORSION TUBE

OPERATION

FRONT OF LOADER



UNCOUPLE LOADER AND MAIN FRAME

1. Shut off mower and wait for mower to come to complete stop. Position boom arm into stowed position.
2. Make sure bucket tilt is level. Disconnect loader lockout links from bolt on caps of lockout arms.
3. Remove bolts and remove caps of loader lockout arms.
4. Raise loader arms to use maintenance prop(per instructions in tractor manual.)
5. Lower loader arms to rest on maintenance prop.
6. Remove loader lockout arms per parts section.
7. Raise loader arms and stow maintenance prop(per instructions in tractor manual.)
8. Lower the loader arms to rest on the ground.
9. Rest the mower head on the ground.
10. Retract the locking pins on the loader to release the main frame.
11. Disconnect the hydraulic “quick couplers” and electrical connectors. Screw electrical connectors into dust caps/plugs.
12. Position bucket tilt “forward” and lower loader arms.
13. The loader should be free for other applications.

OPERATION

SETTING TRACTOR SPEED FOR MOWING

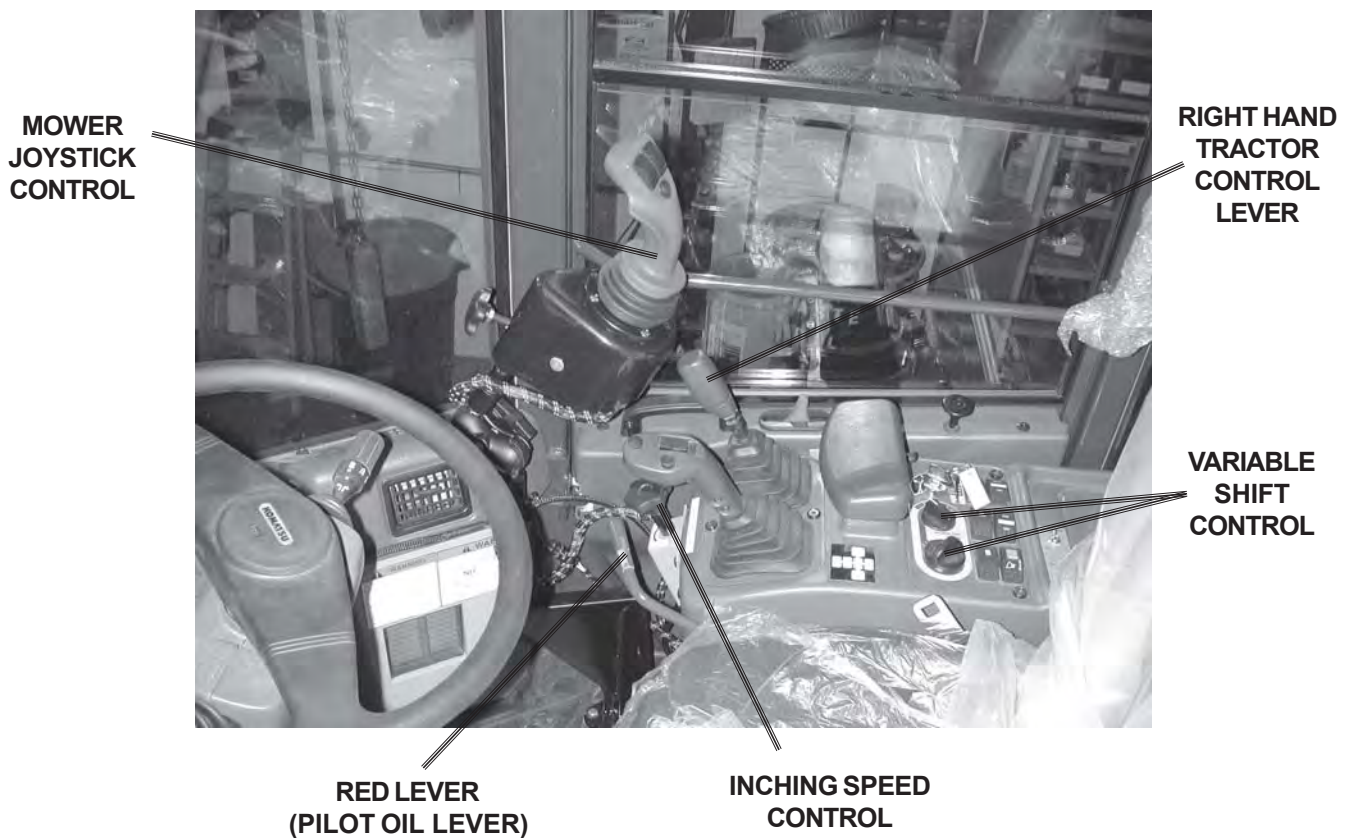
1. Start tractor, ensure Red Lever(on right side of seat) is Up, and turn Selector Valve For Auxiliary Pump to ON (rocker switch to right of steering column.)
2. Then turn Master Switch on Mower Switch Box to ON, and turn Travel Lock to OFF.
3. Lift mower boom and articulate to stowed position.
4. On tractor console, set both knobs of the Variable Shift Control to #1 and rotate the Inching Speed Control to MINIMUM (completely clockwise).
5. Index Shifter to FORWARD, depress Throttle Pedal to full, then rotate the Inching Speed Control counterclockwise until achieving desired mower travel speed (approximately 1 MPH).
6. Return Shifter to neutral.

FRONT CONTROLS OF CAB



OPERATION

RIGHT SIDE CONTROLS OF CAB



PROCEDURES FOR MOWING OPERATIONS

7. Position boom for mowing.
8. Then ensure RED Lever is Up, detent Right Hand Tractor Control Lever aft, and pull RED Mower Control Knob out completely to Start mower.
9. Index Tractor Shifter forward and control boom mower with Mower Joystick Control.
10. Depress Throttle Pedal completely to provide adequate power to mower cutting head and engage manual Throttle Lock by pulling Throttle Lock lever AFT.
11. Use Inching Speed Control to control tractor speed.

OPERATION

DANFOSS VALVE 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 of this equipment.**

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

CAUTION!



The lowest level of Safety Message; Warns of possible minor injury. Decals located on the cutter with this Signal Word are Black and Yellow.

WARNING!



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

DANGER!



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

CAUTION!



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 the safe operation of 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 **100 yards** of the machine when mower is in operation.

WARNING!

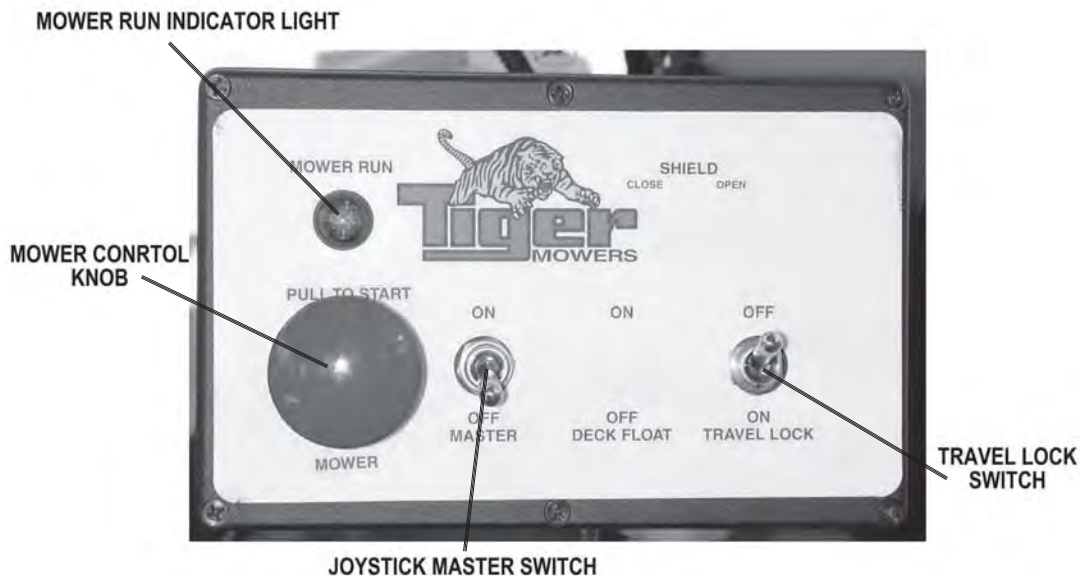


Check to make sure mower switch is in the “**OFF**” position. The unit is designed not to start if the switch is in the “on” position. If tractor starts with switch on, turn off tractor and contact your local Tiger dealership for assistance.

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.

‘IT’ MAIN CONTROL SWITCH BOX



OPERATION

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

CAUTION!



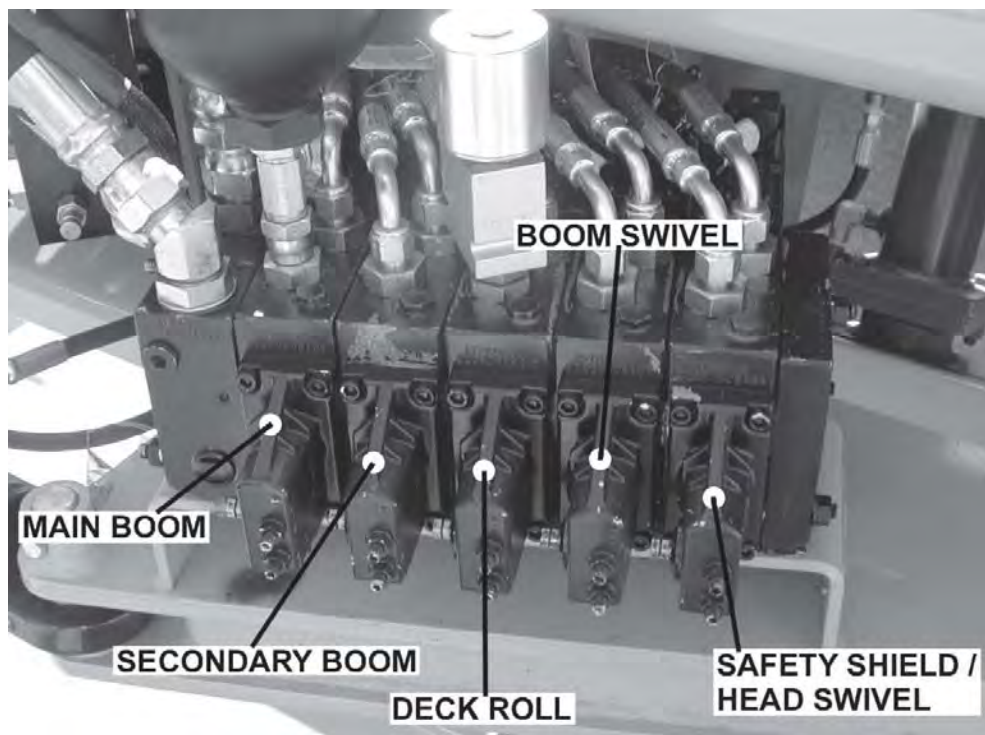
If the joystick control is not operating properly, turn the master switch to the “OFF” position. Install the manual valve handle onto valve and operate the functions individually to stow boom. After boom is stowed in rest, transport the unit to the maintenance facility and contact your Tiger dealer for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

CAUTION!



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

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



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

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


OPERATION



DANGER

SAFETY SHIELD OPERATION

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

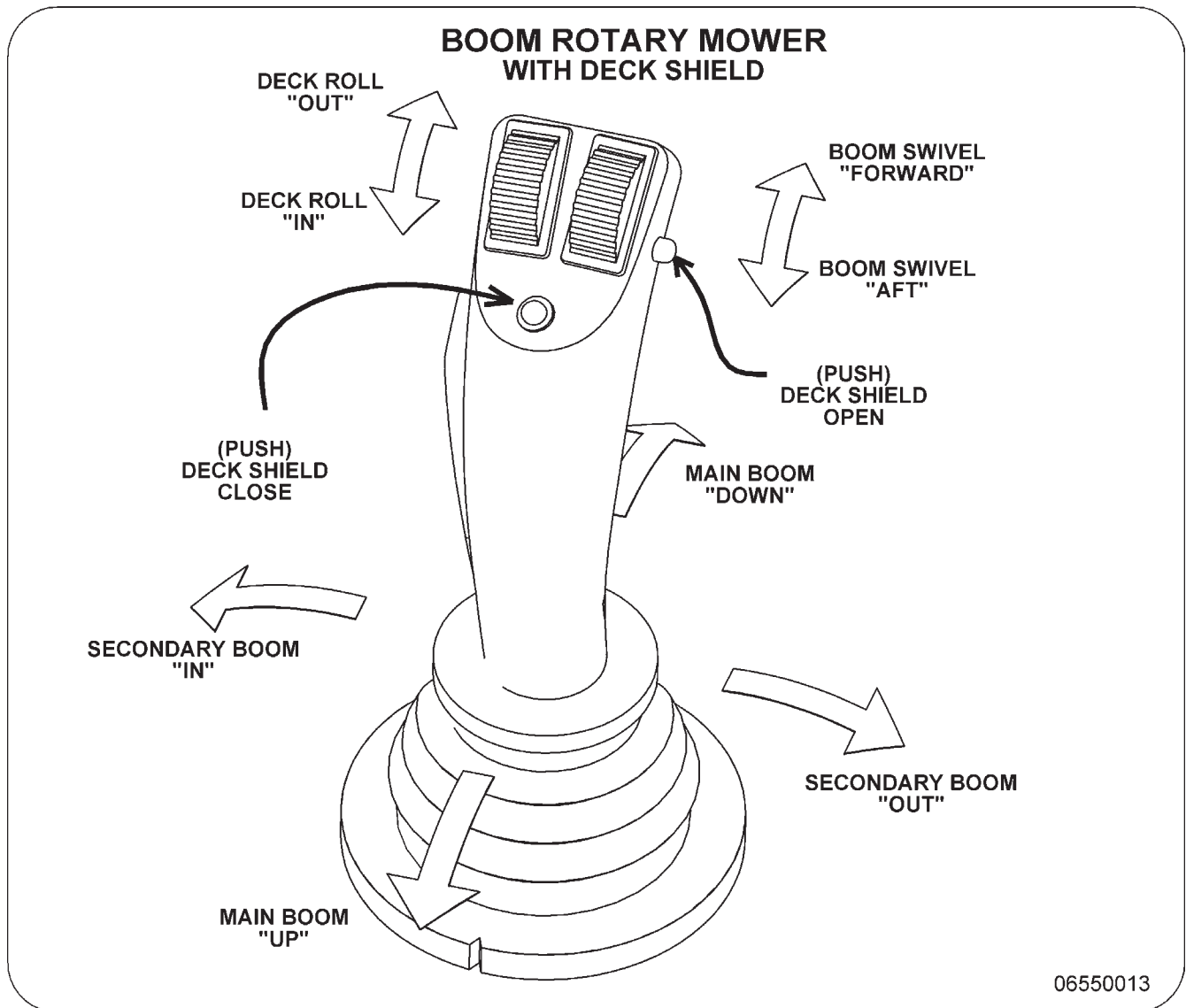
 **CAUTION!** The Travel Lock function locks the mower head in the up-right position for road travel. Prepare unit for travel by rolling deck completely out (mower deck rolled back adjacent to secondary boom). Then place main and secondary booms in boom rest. The Travel Lock switch can now be engaged.

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

OPERATION

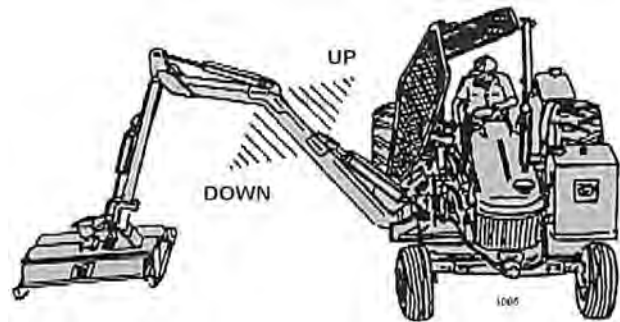
ROTARY JOYSTICK CONTROL

The diagrams below and on the next page show the functions that are performed through the use of the joystick controller with the Rotary Head.

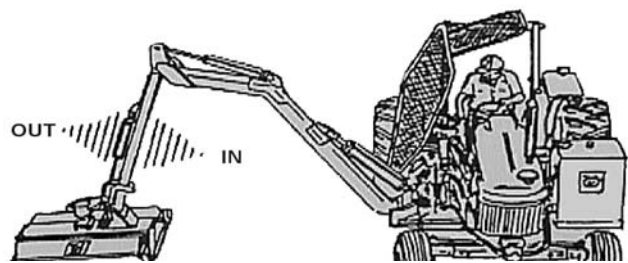


OPERATION

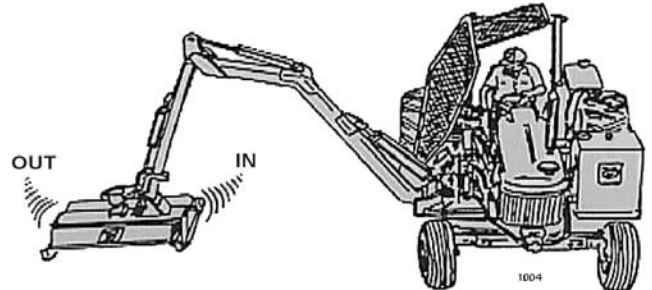
**JOYSTICK FWD / BACK
MOVES MAIN BOOM**



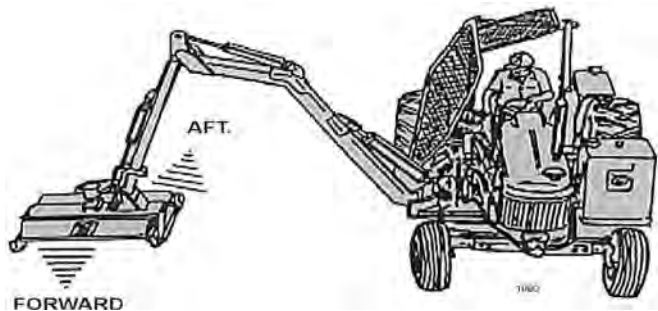
**JOYSTICK LEFT / RIGHT
MOVES SECONDARY BOOM**



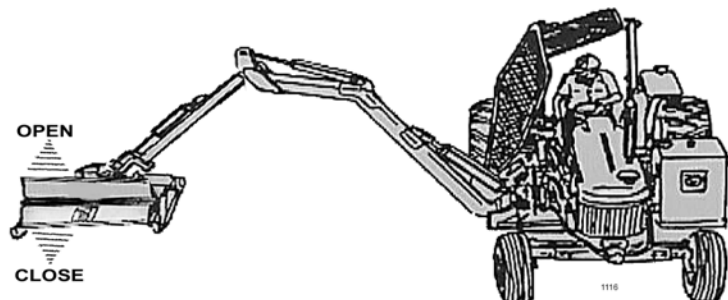
**LEFT JOYSTICK ROLLER
MOVES DECK ROLL**



**RIGHT JOYSTICK ROLLER
MOVES BOOM SWIVEL**



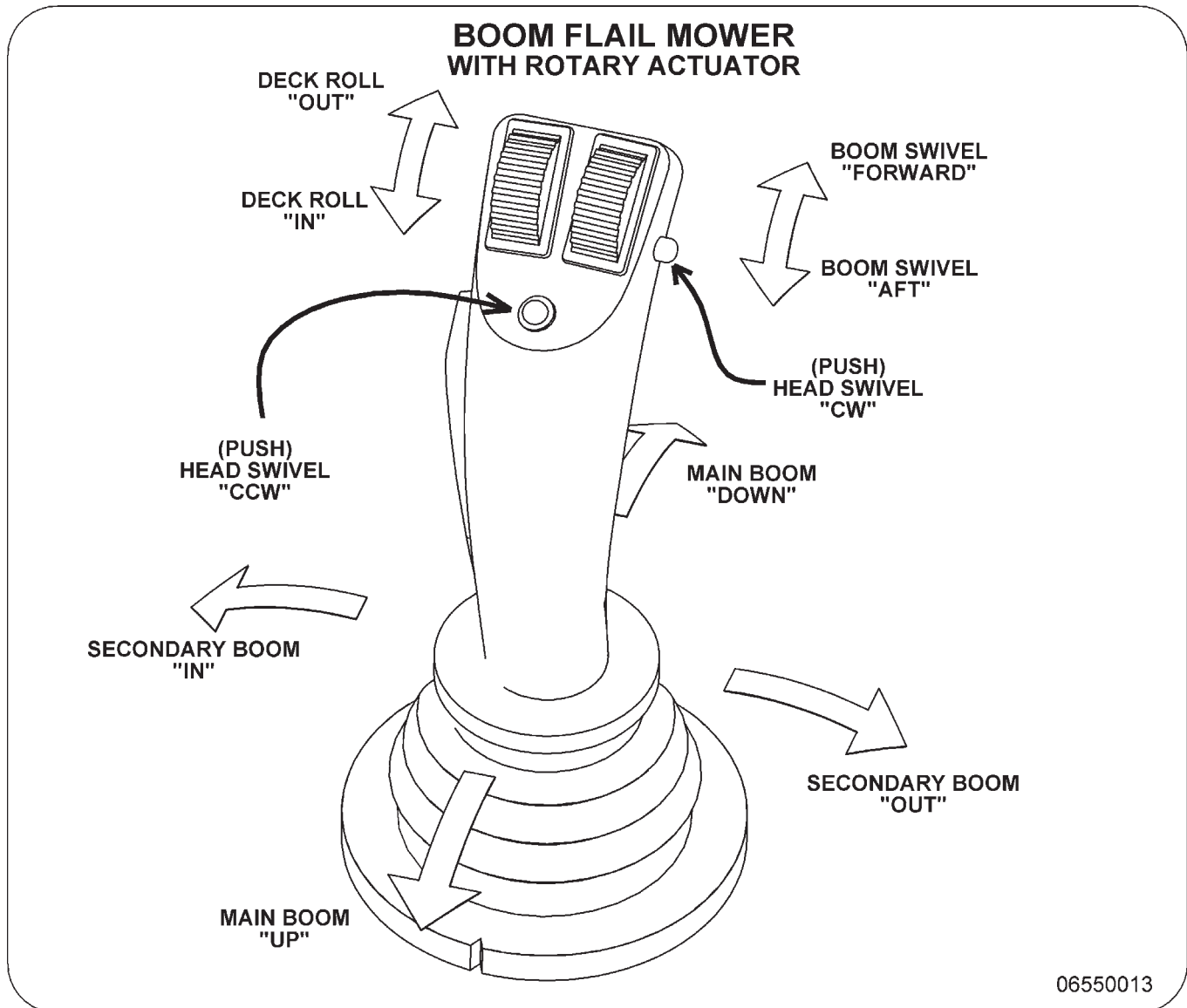
**SHIELD BUTTONS
OPERATES SAFETY
SHIELD**



OPERATION

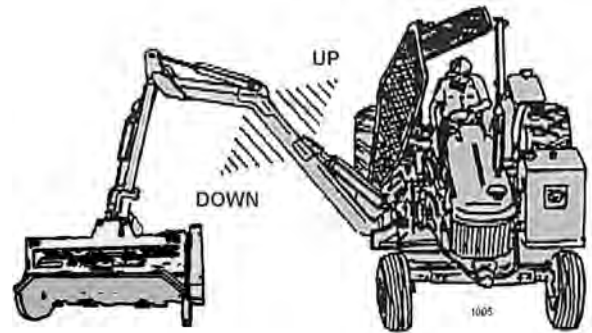
FLAIL JOYSTICK CONTROL

The diagrams below and on the next page show the functions that are performed through the use of the joystick controller on the Flail Head.

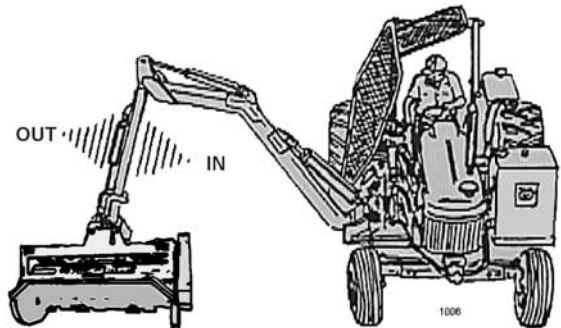


OPERATION

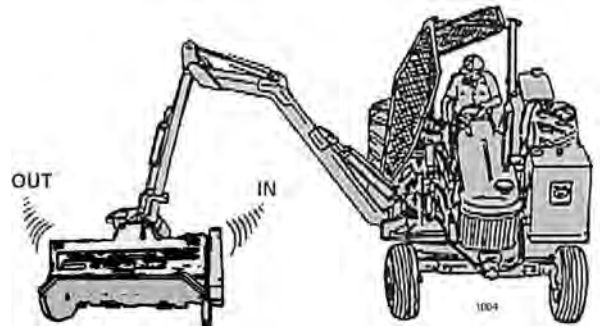
**JOYSTICK FWD / BACK
MOVES MAIN BOOM**



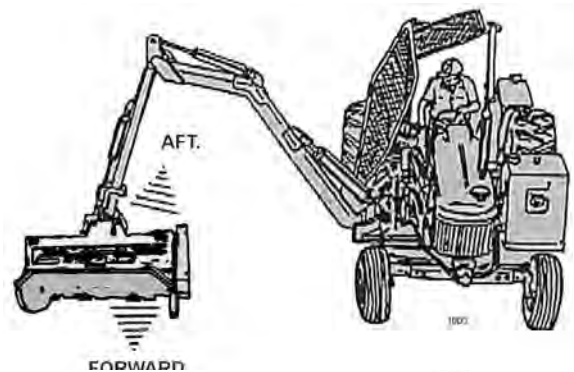
**JOYSTICK LEFT / RIGHT
MOVES SECONDARY BOOM**



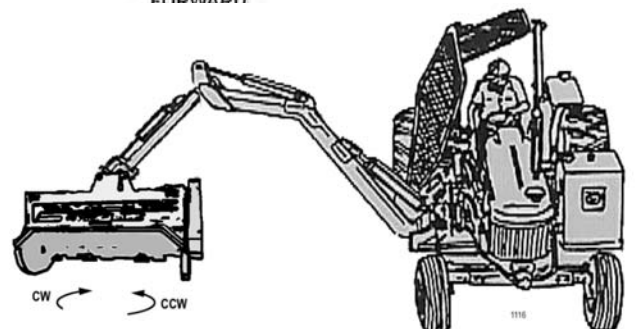
**LEFT JOYSTICK ROLLER
MOVES DECK ROLL**



**RIGHT JOYSTICK ROLLER
MOVES BOOM SWIVEL**



**HEAD SWIVEL BUTTONS
OPERATES HEAD
SWIVEL**



OPERATION

Follow the SETTING TRACTOR SPEED FOR MOWING instructions at the beginning of this section. This prevents radical changes in mower spindle speeds, reducing the possibility of cutter assembly damage.

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

CAUTION!



When using the rotary cutting head for trimming trees and shrubs, let the mower saw into them. Do not lower the mower head down directly 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.

CAUTION!



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

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

CAUTION!



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

CAUTION!



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

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

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

OPERATION

SABER FLAIL

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

WARNING!



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

WARNING!



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

MOWER OPERATION

CAUTION!



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, set tractor speed for mowing as explained at the beginning of this section. Lower the mower deck slightly above the foliage to be cut, so the mower does not have to start under a load. Follow Procedure For Mowing Operations at the beginning of this section and **slowly** lower deck to ground level.

CAUTION!



When using the rotary cutting head for trimming trees and shrubs, let the mower saw into them. Do not lower the mower head down directly 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.

OPERATION

CAUTION!



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

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

CAUTION!



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

CAUTION!



If cut debris falls on top of mower deck causing tractor to become unstable, push the joystick control "Forward" and to the "Right" to relieve tipping of the tractor. Lower mower deck to ground and shut down unit. After all motion stops, remove debris from mower deck.

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

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

WARNING!



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

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

OPERATION

TRANSPORTING MOWER

Transporting under the units own power:

When transporting between job sites, the following procedure should be followed: Shut off the power to the cutting head and allow all motion to come to a complete stop. Position the mower head in the stowed position. Place the "Travel Lock" switch on the main control switch box to the "ON" position. The unit is now ready for self transportation.



Transporting unit by flatbed trailer:

Park flatbed on level area. Position mower head in stowed position. Drive tractor onto center of flatbed to avoid uneven distribution of weight and staying within local width restrictions. Once tractor is positioned on flatbed, lower deck onto the trailer bed, and shut off the tractor. The tractor and the mower head should now be chained down securely to the trailer bed.

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!

OPERATION

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.**
- Polycarbonate screens should be washed with mild soap or detergent and luke warm water, using a soft clean sponge or **soft cloth**. DO NOT use abrasive or alkaline cleaners or metal scrapers on lexan windows!
- Be alert to maintenance indicators such as the in-tank filter pressure gauge, hydraulic reservoir sight gauge, etc. Take the required action to correct any problems immediately.
- Release of energy from pressurized systems may cause inadvertent actuation of cylinders, or sudden release of compressed springs. Before disconnecting any hoses relieve pressure by shutting tractor off, setting cutter on ground and actuating lift valve handles.

WARNING!



DO NOT 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 hole 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.**

MAINTENANCE

REGULAR MAINTENANCE

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



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
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 maint. Precautions
Knives	Check	Inspect for missing or damaged knives, change 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 torque to 204 dry or 184 oiled ft. lbs.
Belts	Check / Adjust	Check if broken, tighten as required
Main Frame and Deck	Check	Retorque bolts to torque specifications in this section
Hydraulic Fluid Level	Check	Check per tractor manual
Cutter Shaft	Lubricate	Grease as instructed in detailed maint. section
Cutter Shaft Bearings (Flail)	Lubricate	Approx. every 300 hrs. except severely dirty conditions

WEEKLY OR EVERY 50 HOURS

In Tank Hyd. Fluid Filter	Change	Check tractor manual for hydraulic fluid replacement schedule
Chain Coupling	Check	

MAINTENANCE

MONTHLY OR EVERY 150 HOURS

ITEM	SERVICE	COMMENTS
Hydraulic Fluid Level	Check	Per tractor manual
Hyd. Tank Breather	Clean / Check / Replace	Per tractor manual
Helac	Grease	Until clean grease is expelled from relief port.
17.5 X R25 Michelin tires	Tire Pressure	Fill to 62 psi

YEARLY OR EVERY 500 HOURS

Hyd. tank Fluid	Change	Check tractor manual
In Tank Hyd. Fluid Filter	Change	Check tractor manual
Hyd. Tank Breather	Change	Check tractor manual

TROUBLE SHOOTING

SYMPTOMS	CAUSE	REMEDY
Vibration	1. Loose bolts	1. Check all bolts and tighten to torque specs. in this section.
	2. Cutter assembly Unbalanced	2a. Check for damaged blades, disc. 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 (Per tractor manual)
	2. Leaks in line	2. Tighten or replace fittings and hoses
	3. Faulty relief valve	3. Check pressure in line. Line pressure in Control Valve should be at least 2250 P.S.I.
	4. Kinked or blocked	4. Clean or replace lines
	5. Faulty cylinder	5. Inspect, repair or replace cylinder
Mower will not start or run	1. Blown fuse	1. Check fuse between mower switch and ignition / replace
	2. Low oil level	2. Check Hyd. tank and fill
	4. Line leak	4. Check all fittings and lines, retighten or replace

MAINTENANCE

SYMPTOMS	CAUSE	REMEDY
Mower will not start or run, (continued)	1. Electronic solenoid faulty	1a. 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. 1b. 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 reinstall. 1c. 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 kinked or obstruction in suction hose. 3. Check Hyd. tank level and fill. (Per tractor manual)
Pump will not work	1. Excessive wear	1. Check tractor manual.
Motor will not work	1. Excessive wear on internal parts	1. Disassemble and repair.

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

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

MAINTENANCE

TORQUE SPECIFICATIONS



Thread Size:	SAE GRADE 5		SAE GRADE 8		SAE GRADE 8 Distorted Center Lock Nuts	
	Assembly Torque - Ft-Lbs		Assembly Torque - Ft-Lbs		Assembly Torque - Ft-Lbs	
	Dry Plated	Lubricated	Dry Plated	Lubricated	Dry Plated	Lubricated
1/4 - 20	6	6	9	8	12	11
1/4 - 28	7	6	10	9	13	12
5/16 - 18	13	12	19	17	24	22
5/16 - 24	14	13	21	19	26	24
3/8 - 16	23	21	34	30	41	37
3/8 - 24	26	23	38	34	45	41
7/16 - 14	37	33	54	49	62	57
7/16 - 20	41	37	60	54	68	62
1/2 - 13	56	50	84	76	97	89
1/2 - 20	63	57	92	83	105	96
9/16 - 12	79	71	121	108	140	127
9/16 - 18	91	81	135	121	154	140
5/8 - 11	112	101	167	150	193	176
5/8 - 18	127	114	204	184	230	210
3/4 - 10	198	178	296	266	330	300
3/4 - 16	221	199	331	298	365	332
1 - 8	484	436	718	646	786	714
1 - 12	525	472	782	704	850	772



Thread Size:	CLASS 8.8 METRIC		CLASS 10.9 METRIC	
	Assembly Torque - Ft-Lbs		Assembly Torque - Ft-Lbs	
	Dry	Lubricated	Dry	Lubricated
6 X 1	8	6	11	8
8 X 1.25	19	14	27	20
10 X 1.5	38	29	53	40
12 X 1.75	66	50	93	70
14 X 2	104	78	148	111
16 X 2	167	125	230	173
20 X 2.5	325	244	448	336

1015 TORQUE SPECIFICATION

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

MAINTENANCE

LUBRICATION RECOMMENDATIONS

Description	Application	General Specification	Recommended Mobil Lubricant
Cutter Shaft (Flail)	Grease	Lithium-Complex	Mobilgrease CM-S
	Gun	Extreme Pressure	NLGI 2 - ISO 320
Boom Swivel	Grease	Lithium-Complex	Mobilgrease CM-S
Boom Cylinder Pivots (Rotary & Flail Boom)	Gun	Extreme pressure NLGI2 - ISO 320	
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

GREASING HELAC ON SABER FLAIL

NOTE: All persons must stay away from the Flail Head when tractor is ON.

Completely turn the Saber Flail Head in one direction until it stops. Place the flail head on the ground and shut off the tractor. Locate the two grease fittings on the side of Helac housing. Inject Tiger Spindle Lubricant, part number 06540000 into spindle housing. Fill with lubricant until clean grease is expelled out of the grease relief fitting. Step away from the Flail Head and turn on the tractor. Rotate the flail head 1/5th of the total rotation of the head. Lower head, shut off tractor and grease. Repeat these steps until head is fully rotated. Lubricate Helac at end of day while mower is still warm.

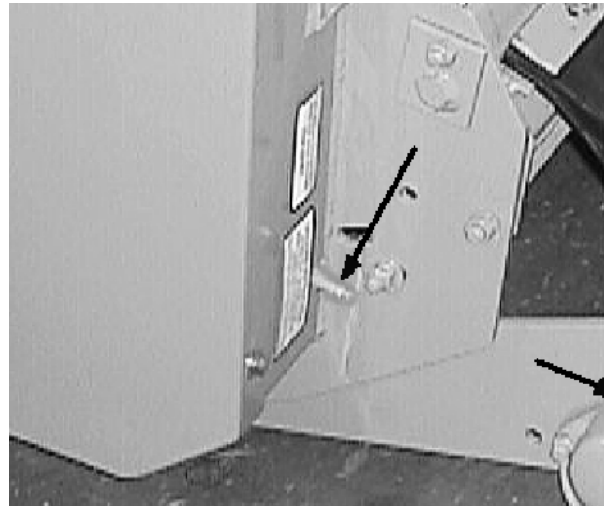
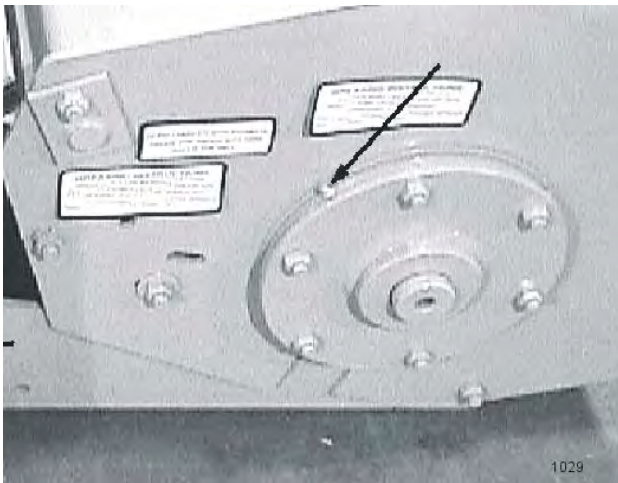
**GREASE
ZERKS**



MAINTENANCE

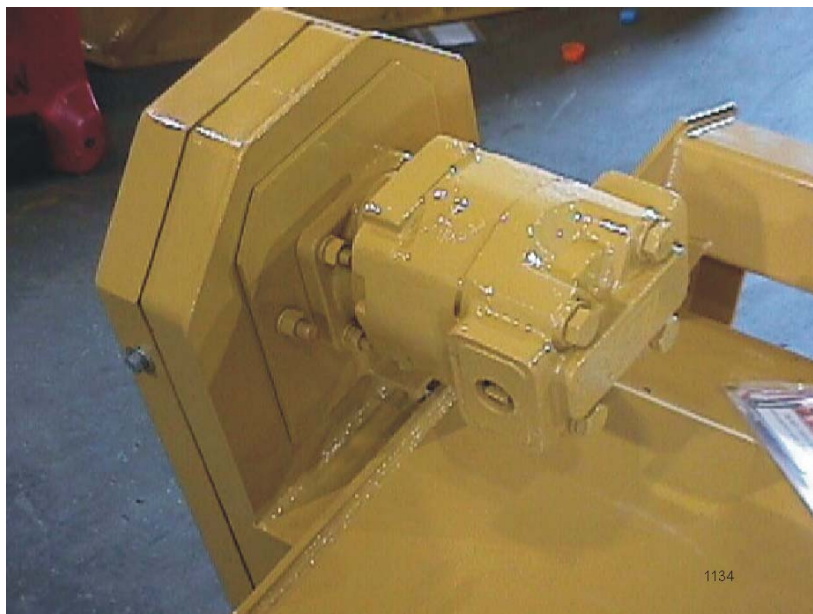
GREASING CUTTER SHAFT - FLAIL MOWERS

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



ADJUSTING / CHECKING BELT TENSION

To adjust belt tension or replace belts on flail cutter head, remove four bolts that secure belt cover and remove cover. Loosen the two bolts on the motor mounting plate. Adjust the motor assy. up and down to proper tension and retighten mounting plate bolts. (NOTE: Location of adjustment nuts may vary on flail cutter heads.) **Be sure to replace the belt cover BEFORE operating mower!**



MAINTENANCE

GREASING SPINDLE

Locate grease fitting on inside of deck housing. Inject Tiger Spindle Lubricant, part number 06540000 into spindle housing. Fill with lubricant until lubricant weeps out of top spindle seal. Lubricate spindle at end of day while mower is still warm.



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 (3ea.) torque to 800 oiled ft. lbs.

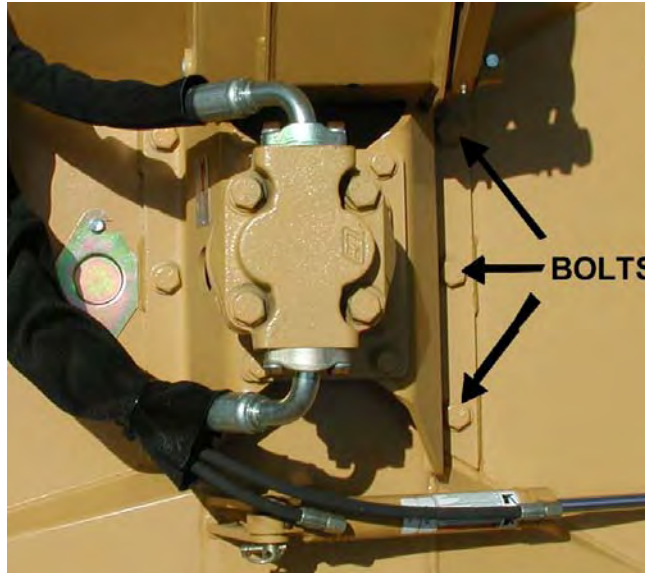
Disk mounting bolts (6ea.) torque to 204 dry or 184 oiled ft. lbs.



MAINTENANCE

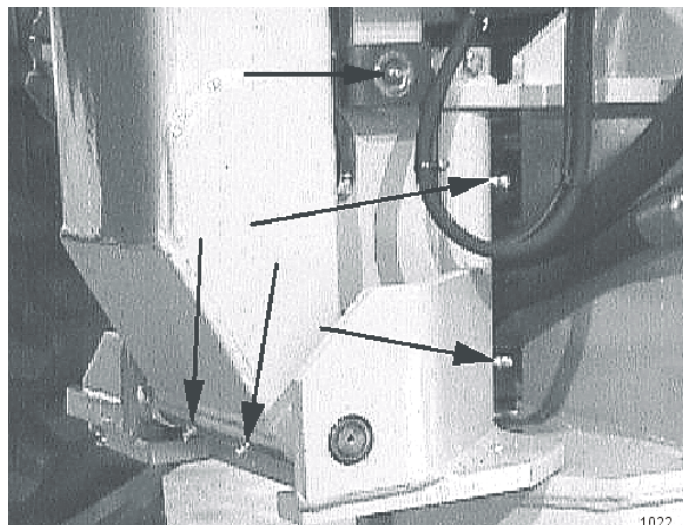
TIGHTENING SPINDLE BOLTS

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 THE BOOM SWIVEL

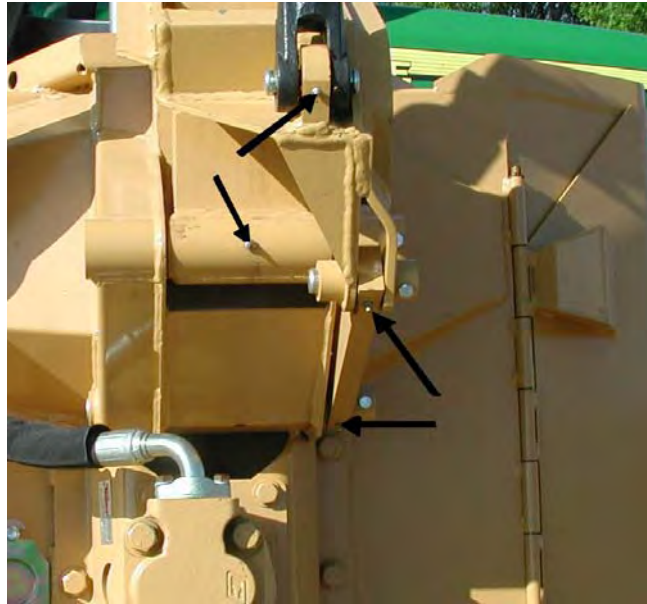
Locate the zerks on the main swivel boss (2), main boom pivot boss (2) and on both ends of the boom swivel cylinder. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specification until grease begins to protrude from ends.



MAINTENANCE

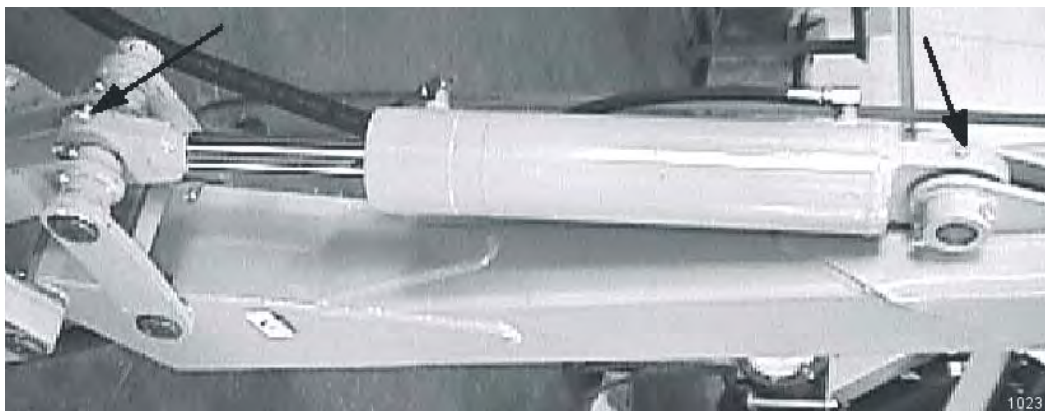
GREASING POINTS ON BOOM AND PIVOT

Locate grease zerks (8) on deck pivot assembly, (2) on deck end of secondary boom, (2) at main / secondary boom joint, and (2) at swivel end of main boom. Inject Lithium-Complex Extreme Pressure grease conforming to NLGI2-ISO 320 specifications until grease begins to protrude from ends.



GREASING BOOM CYLINDER(S) PIVOT POINTS

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



MAINTENANCE

REPLACING HAMMER KNIVES

If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower. The knives should not be welded on for any reason. When replacing knives, replace bushings, bolts and locknuts.

Apply Loctite "271" to threads and install the locking hex nuts so that the flat face of the nut is towards the knife. Torque the hex nut to 176 Ft. Lbs.

CAUTION!



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

'IT' SABER FLAIL CUTTER SHAFT BEARING INSTALLATION

1. Clean both ends of cutter shaft.
2. Grease bearing assemblies by hand including the seal, and insert threaded end of taper lock sleeve into the seal side of bearing assemblies.
3. Insert drive end of cutter shaft through side plate of bonnet assembly, slide other end into slot of opposite side plate, and center shaft in bonnet assembly.
4. CAUTION: Carefully slide bearing assemblies (seal side first) over end of shaft. Install retaining washer and nut onto threaded end of taper lock sleeve, but do not tighten. **DO NOT SUPPORT THE CUTTER SHAFT WITH THE BEARING ASSEMBLIES AT THIS TIME. SUPPORT THE CUTTER SHAFT AT THE DRUM.** Ensure that cutter shaft is centered in bonnet assembly, then carefully slide bearing assemblies into place against bonnet side plate. (Note: the seal at inside of bearing assembly must slide over 2 1/4" O.D. seal surface at end of shaft drum.) Temporarily bolt the bearing assemblies to the side plate with two (2) bolts and standard nuts.
5. Tighten taper lock nuts until taper lock sleeves are snug to shaft and inside of bearings, and nuts and retaining washers are snug against bearings. Then turn nuts another 1/4 turn plus enough to align notch in nuts with a locking tab on the retaining washer. Bend locking tab into notch of nut.
6. Apply grease to seal of outer bearing cover assemblies.
7. Remove the two (2) nuts securing the bearing assemblies. Carefully install outer bearing cover assemblies (with integral seals), and secure with six (6) bolts and lock nuts.
8. Grease bearings with grease gun after assembly is completed.

MAINTENANCE

DAILY MAINTENANCE SCHEDULE

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

_____ 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 tractor manual.

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

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

Maintenance Section

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

MAINTENANCE

IT - BOOM

**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.

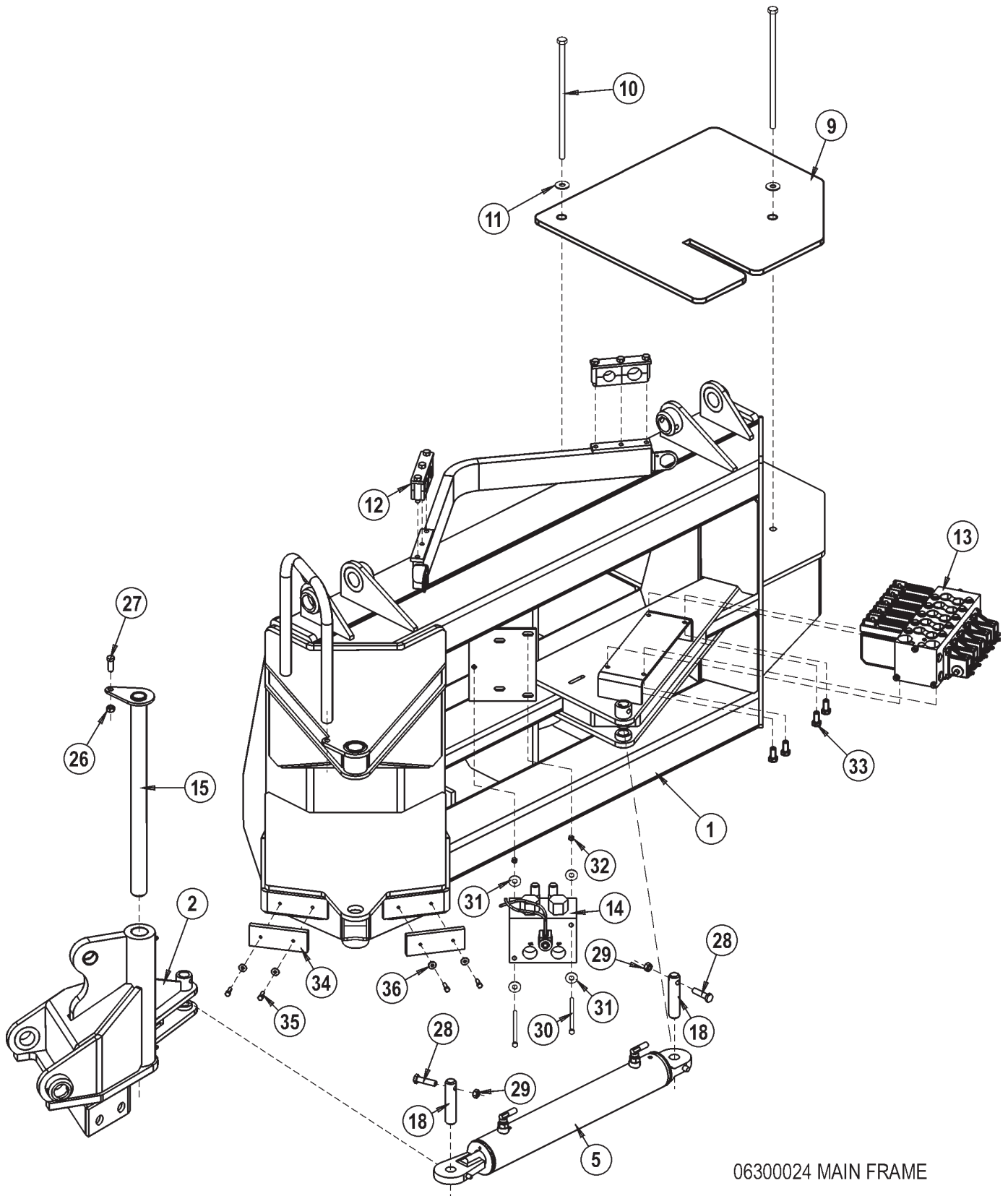
Direct any questions regarding parts to:

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

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IT - MAIN FRAME / SWIVEL

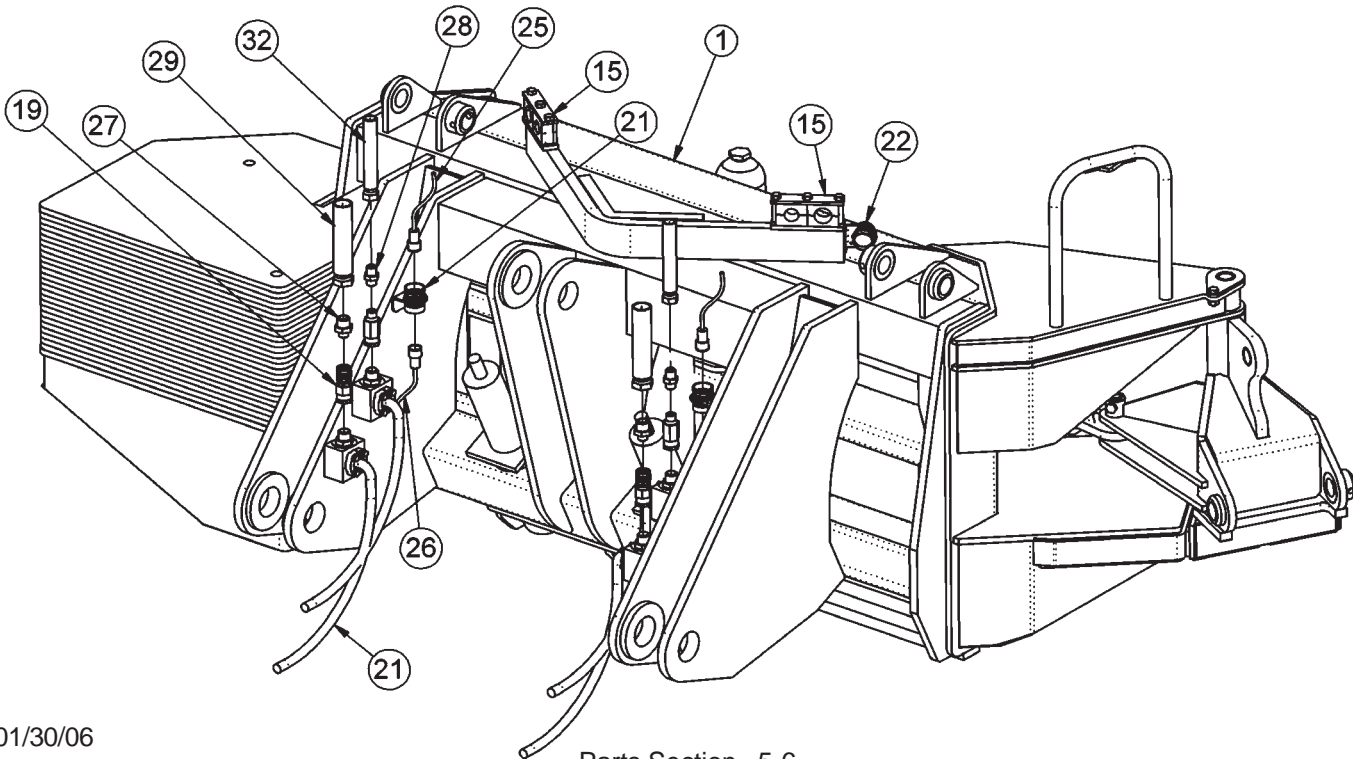
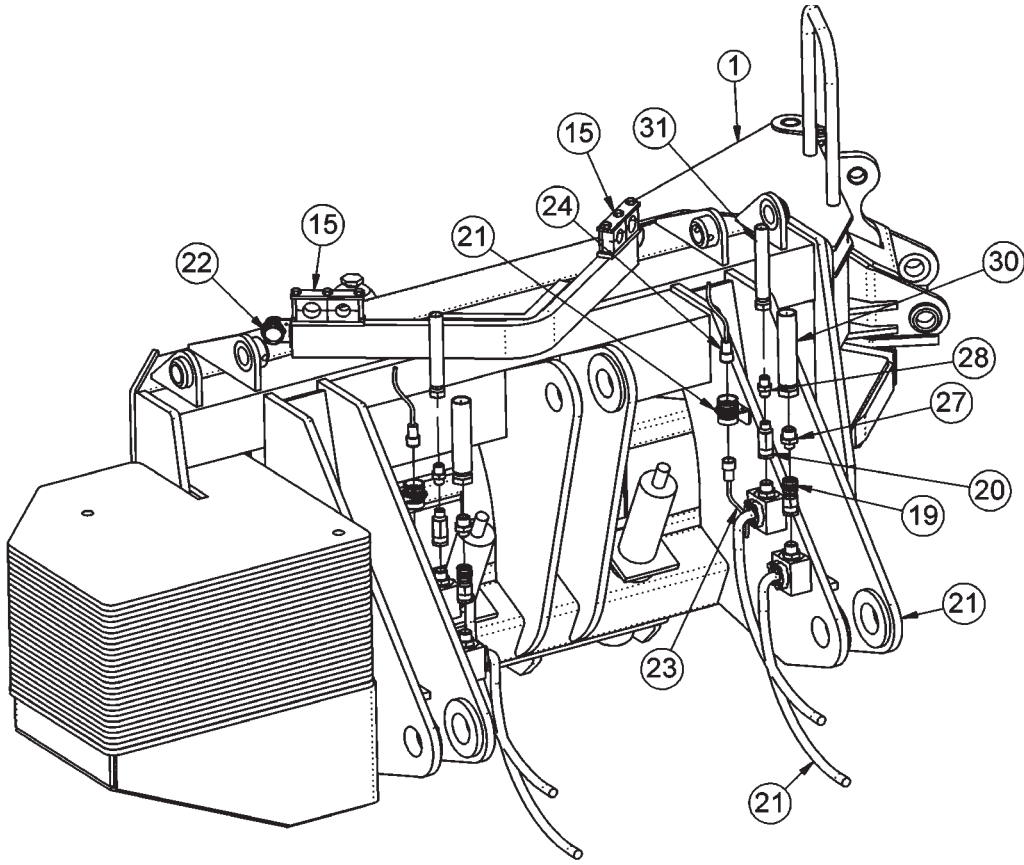


06300024 MAIN FRAME

IT - MAIN FRAME / SWIVEL

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300024	1	MAINFRAME, IT
2	06700033	1	SWIVEL, IT, W/BEARINGS
4	06310009	1	SECONDARY BOOM, IT
5	33229	1	CYLINDER, 3" X 18"
9	06400329	26	COUNTERWEIGHT, IT
10	21958	2	CAPSCREW, 3/4" X 15" NC
11	22021	2	FLATWASHER, 3/4"
12	06505027	2	CLAMP KIT
13	06502059	1	5 SPOOL VALVE, IT
14	06510090	1	BRAKE VALVE
15	06360000	1	SWIVEL PIN, IT
18	32380	2	PIN, CYL, 1, SWIVEL, IT
26	21677	1	NYLOCK NUT, 7/16 NC
27	21680	1	CAPSCREW, 7/16 X 1-1/4 NC
28	21635	2	CAPSCREW, 3/8 X 2-1/4 NC
29	21627	2	NYLOCK NUT, 3/8 NC
30	21644	2	CAPSCREW, 3/8 X 5 NC
31	22018	4	FLATWASHER, 3/8
32	21625	2	HEX NUT, 3/8 NC
33	21579	4	CAPSCREW, 5/16 X 3/4 NC
34	06520081	2	SWIVEL PAD, IT
35	21529	4	CAPSCREW, 1/4 X 3/4 NC
36	22014	4	FLATWASHER, 1/4

IT COUPLER - HYDRAULICS



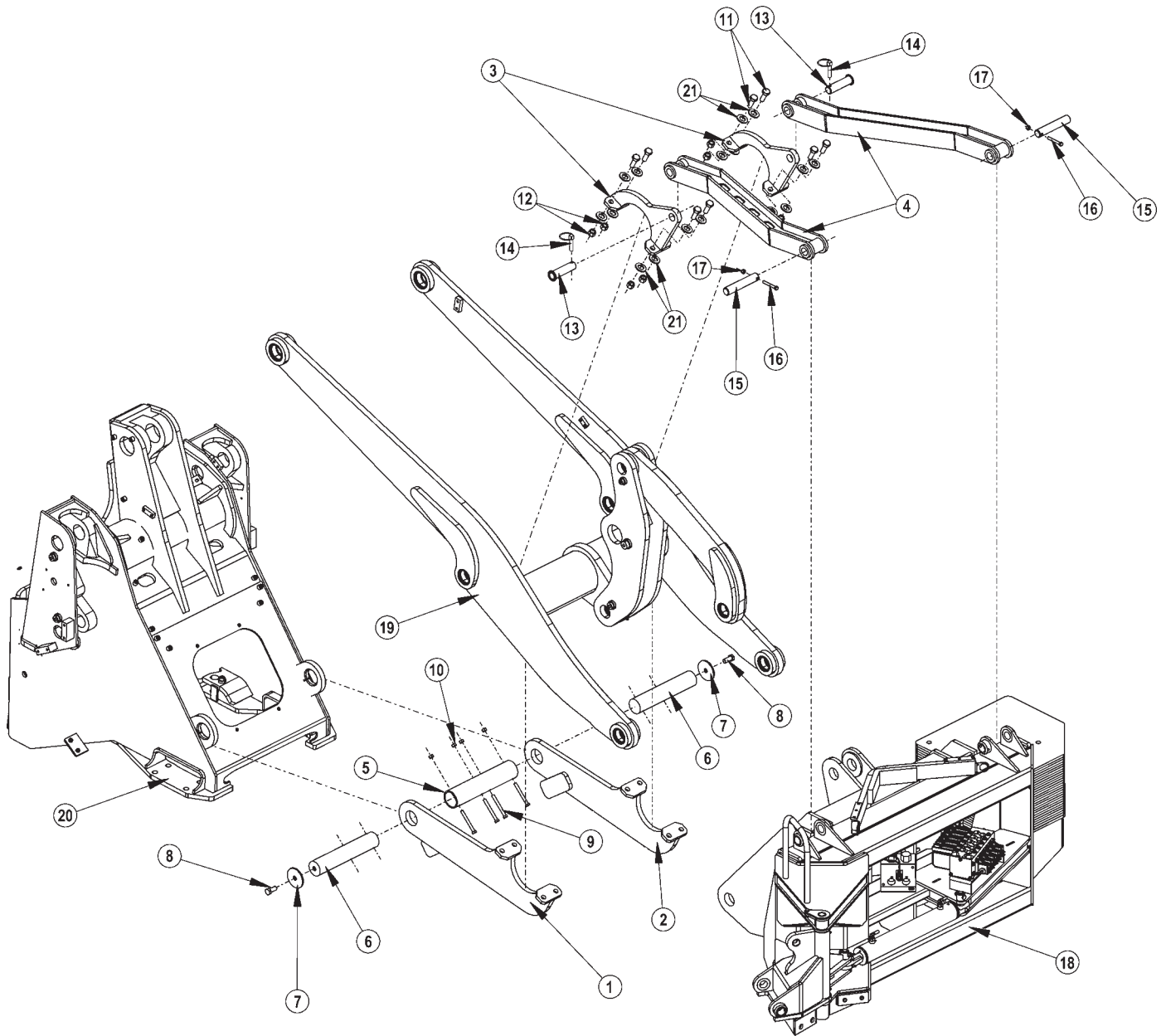
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Parts Section 5-6

IT COUPLER - HYDRAULICS

ITEM	PART NO.	QTY.	DESCRIPTION
1	06300024	1	MNFRM,KOMATSU,IT
2	06700033	1	SWIVEL,IT,W/BEARINGS
3	33229	1	CYLINDER,3X18,TV140,SABER
4	21530	4	CAPSCREW,1/4 X 1 NC
5	21675	3	HEX NUT,7/16 NC
6	21683	2	CAPSCREW,7/16 X 2 NC
7	21682	1	CAPSCREW,7/16 X 1/2 NC
8	21988	3	LOCKWASHER,3/8
9	22014	4	FLATWASHER,1/4
10	32380	2	PIN,CYL,1,SWIVEL,SABER
11	06360000	1	PIN,SWIVEL,IT
12	06520081	2	PAD,SWIVEL,IT
15	06505027	2	CLAMP KIT,HOSE,1"3/4",DBL,3PST
19	06503045	2	QUICK COUPLER,3/4"SAE,FEM,FLAT
20	06503046	2	QUICK COUPLR,3/4"SAE,MALE,FLAT
22		2	aluminum bu lkhead connectors
23	06510082	1	HARNESS,LONG,DANFOSS,IT
24	06510086	1	HARNESS,SOL VLV,IT
25	06510093	1	HARNESS,MED,DANFOSS,IT
26	06510085	1	HARNESS,EXT,IT
27	06503039	2	ADAPTER,3/4ORBx1MJ
28	06503023	2	ADAPTER,3/4ORBx3/4 MJ
29	33456	1	HOSE,1X70 (PRESSURE TO BRAKE VALVE)
30	06500183	1	HOSE,1x68 (RETURN FROM BRAKE VALVE)
31	06500184	1	HOSE,3/4x58 (PRESSURE TO 5 SPOOL VALVE)
32	06500185	1	HOSE,3/4x54 (RETURN FROM 5 SPOOL VALVE)

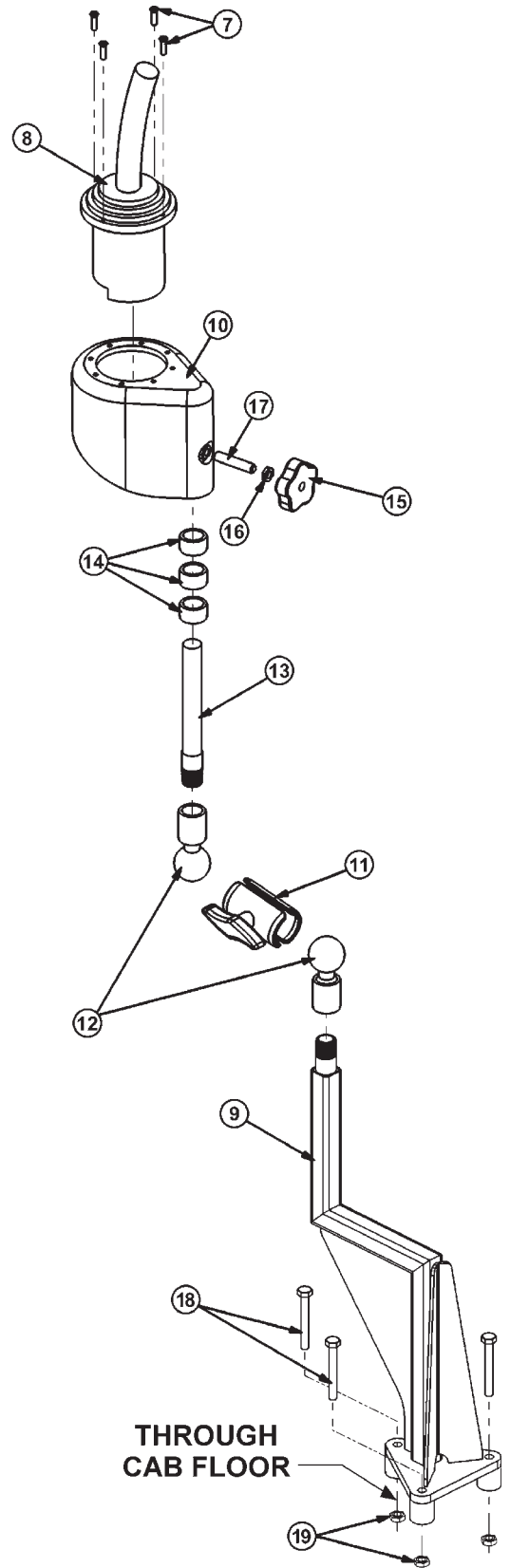
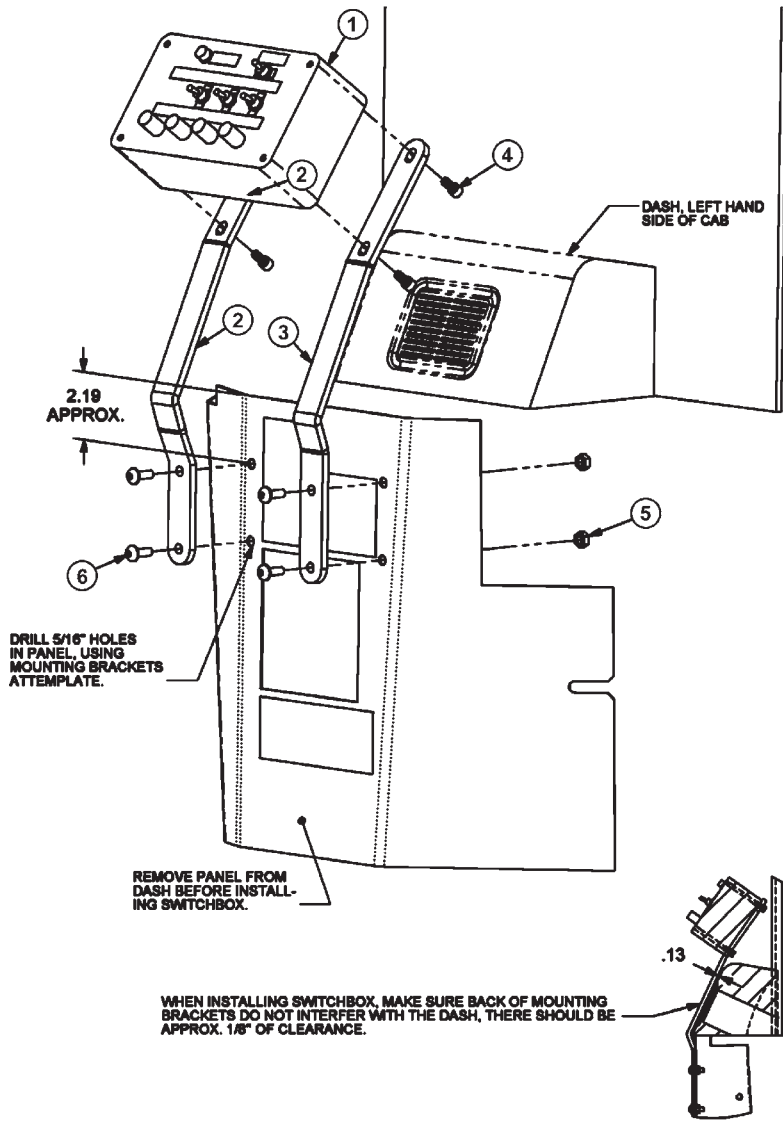
IT LOADER ARM LOCKOUTS



IT LOADER ARM LOCKOUTS

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370038	1	LOCKOUT,ARM,RH,IT
2	06370037	1	LOCKOUT,ARM,LH,IT
3	06370039	2	LOCKOUT,CLAMP,IT
4	06370040	2	LOCKOUT,LINK,IT
5	06470006	1	BOSS,3.50x2.50x16.00
6	06420032	2	PIN,3.00x16
7	35029	2	DONUT,EXTLIMIT
8	21831	2	CAPSCREW,3/4 X 1-3/4 NC
9	21741	4	CAPSCREW,1/2 X 4 NC
10	21727	4	NYLOCK NUT,1/2 NC
11	34769	8	CAPSCREW,3/4 X 3-1/4, NF, GR8
12	6T2413	8	HEX NUT,3/4 NF GR8
13	33444	2	PIN,CAPPED,1 1/2X5 3/4,W/HOLE
14	06537011	2	PIN,LYNCH 7/16 x 1 1/2
15	33867	2	PIN,1 1/2X8 1/8,W/HOLE
16	21688	2	CAPSCREW,7/16 X 3-1/4 NC
17	21677	2	NYLOCK NUT,7/16 NC
18	*	REF	MAIN FRAME - REFER TO MAIN FRAME SECTION
19	*	REF	LOADER ARMS - REFER TO TRACTOR MANUAL
20	*	REF	LOADER FRONT - REFER TO TRACTOR MANUAL
21	33880	16	FLATWASHER,3/4, GR8, SAE

SWITCH BOX AND JOYSTICK

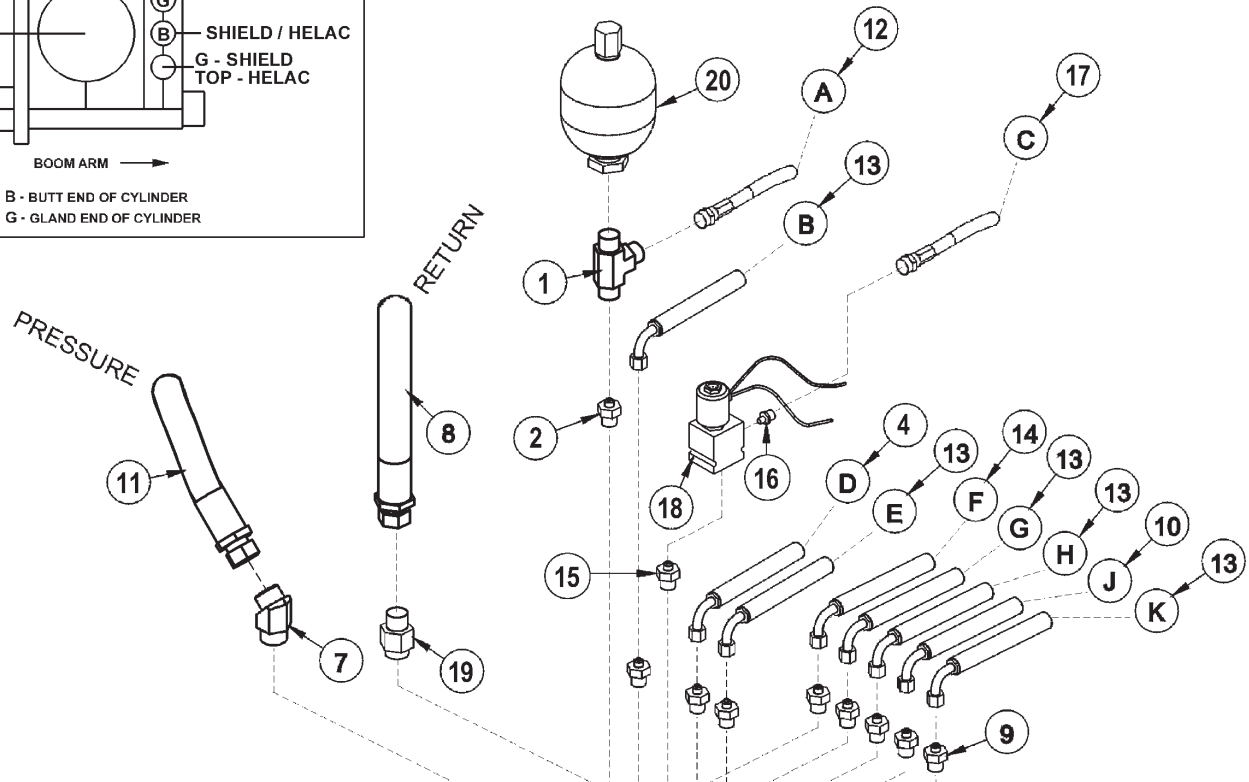
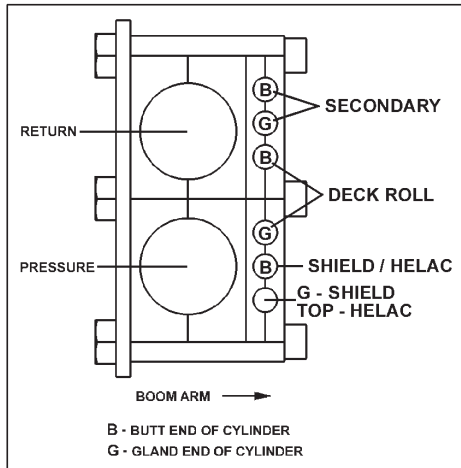


SWITCH BOX AND JOYSTICK

ITEM	PART NO.	QTY.	DESCRIPTION
1	06510074	1	SWITCH BOX,DANFOSS,IT
2	06410319	1	LH SWITCH BOX MOUNT
3	06410320	1	RH SWITCH BOX MOUNT
4	22827	4	CAPSCREW,1/4 X 1/2 NC
5	35066	4	NYLOCK NUT, 1/4", NC
6	35067	4	MACHINE SCREW,1/4 x 3/4, NC
7	32829	4	MACHINE SCREW,10-32X3/4,FLATHEAD
8	06510073	1	JOYSTICK
9	06340019	1	JOYSTICK MOUNT
10	35033	1	JOYSTICK CAN
11	06520042	1	RAM MOUNT ARM
12	06520041	2	RAM MOUNT BALL
13	06340010	1	JOYSTICK ROD
14	35256	3	BUSHING
15	35204	1	KNOB
16	35206	1	HEX NUT,JAMB,3/8 NC
17	35205	1	SETSCREW,3/8 x 2 NC,KNURLED PT
18	21585	3	CAPSCREW,5/16 X 2-1/4 NC
19	21577	3	NYLOCK NUT,5/16 NC

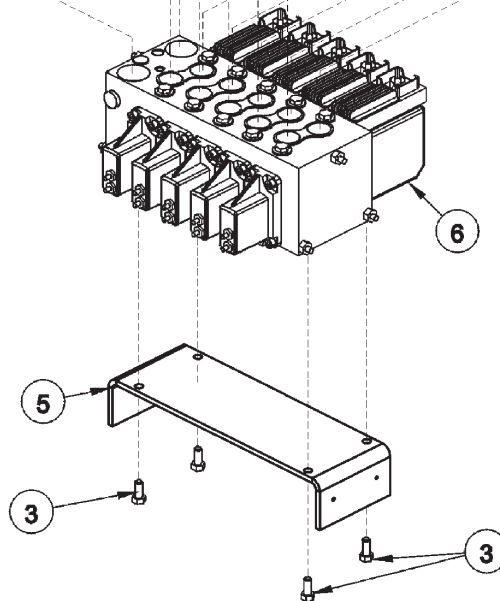
LIFT VALVE, 5-SP - IT

HOSE CLAMP



HOSE ROUTING

- A - TO MAIN BOOM CYLINDER GLAND
- B - TO SECONDARY CYLINDER GLAND
- C - TO DECK ROLL CYLINDER GLAND
- D - TO SWIVEL CYLINDER GLAND
- E - TO SAFETY SHIELD CYLINDER GLAND
TO HELAC TOP PORT
- F - TO MAIN BOOM CYLINDER BUTT
- G - TO SECONDARY CYLINDER BUTT
- H - TO DECK ROLL CYLINDER BUTT
- J - TO SWIVEL CYLINDER BUTT
- K - TO SAFETY SHIELD CYLINDER BUTT
TO HELAC BOTTOM PORT



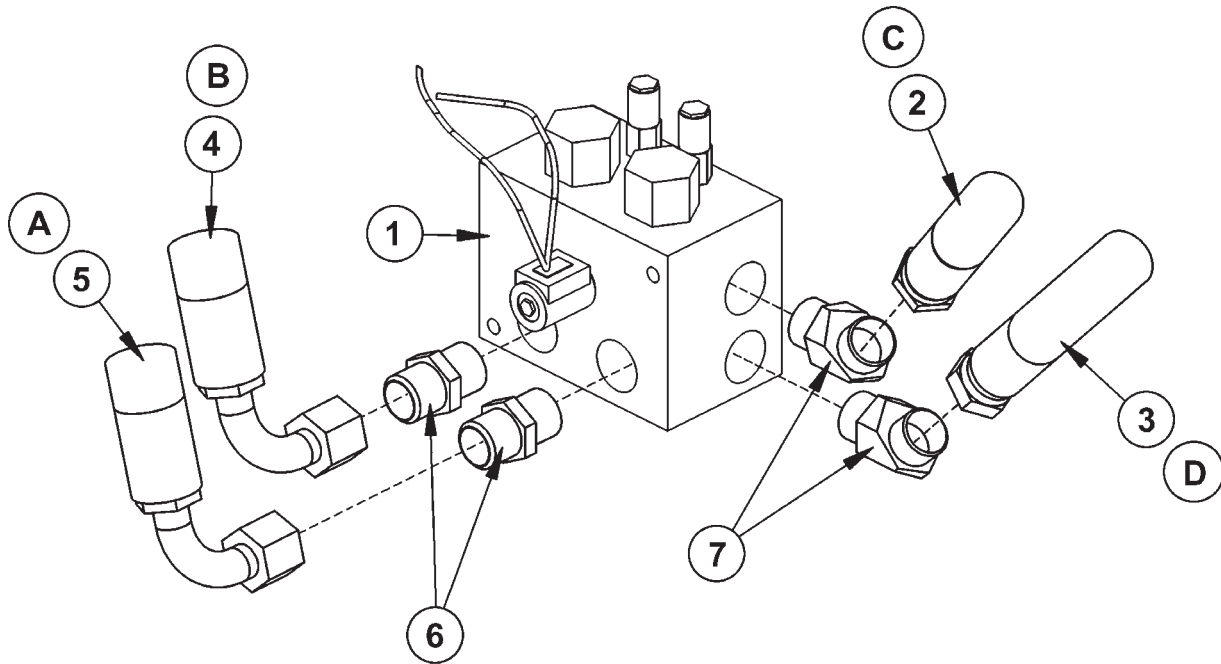
06502059 LV-5SP

01/30/06

LIFT VALVE, 5-SP - IT

ITEM	PART NO.	QTY.	DESCRIPTION
1	06503040	1	TEE,RUN,1/2ORBx1/2MJx1/2MJ
2	06503041	1	ADAPTER,5/8ORBx1/2FJX
3	21579	4	CAPSCREW, 5/16 X 3/4 NC
4	06500191	1	HOSE,3/8x44(3/8FJX90x3/8FJX)
5	*	REF	BRACKET IS PART OF MAIN FRAME
6	06502059	1	VLV,5SP,32PVG,IT
7	06503043	1	ELBOW,3/4ORBx3/4MJ 45°
8	06500185	1	HOSE,3/4x54(3/4FJXx3/4FJX)
9	32807	8	ADAPTER,5/8MORB X 3/8MJ
10	06500192	1	HOSE,3/8x26(3/8FJX90x3/8FJX)
11	06500184	1	HOSE,3/4x58(3/4FJXx3/4FJX)
12	06500193	1	HOSE,3/8x143(3/8FJXx1/2FJX)
13	06500187	5	HOSE,3/8x115(3/8MJx3/8FJX90)
14	32824	1	HOSE,3/8 x 137 (3/8FJX90X3/8FJX)
15	31611	1	ADAPTER,5/8 OR X 1/2 ADJ OR
16	33271	1	ADAPTER,1/2 MOR X 3/8 MJ
17	06500186	1	HOSE,3/8x115(3/8MJx3/8FJX)
18	06510050	1	TRV LCK,METRIPACK COIL
19	06503023	1	ADAPTER,3/4ORBx 3/4 MJ
20	24300	1	ACCUMULATER,1450 PSI PRECHARGE @70 F

BRAKE VALVE - IT



HOSE ROUTING

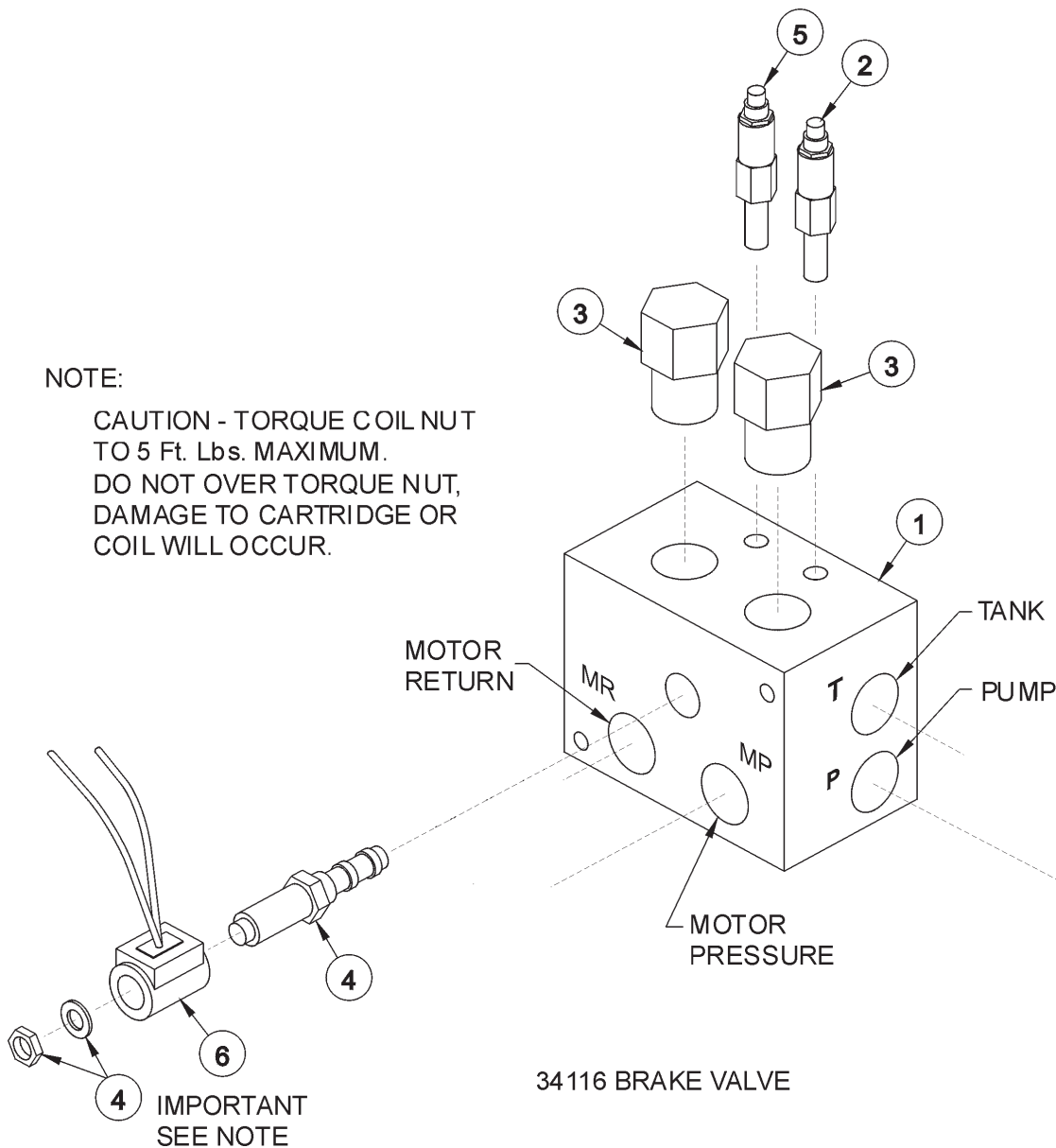
- A - TO PRESSURE PORT ON MOWER
- B - TO RETURN PORT ON MOWER
- C - TO RETURN LINE ON RIGHT LOADER ARM
- D - TO PRESSURE LINE ON LEFT LOADER ARM

ITEM	PART NO.	QTY.	DESCRIPTION
1	06510090	1	VLV,BRK,SOL,3000PSI,24V,METRI
2	06500183	1	HOSE,1x68(1FJXx1FJX)
3	33456	1	HOSE,1x70(1FJXx1FJX)
4	34236	1	HOSE,1X83(1FJXX1FJX90)
5	34082	1	HOSE,1X89(1FJX X 1FJX90)
6	33555	2	ADAPTER,1MORBX1MJIC
7	33554	2	ELBOW,1MORBX1MJIC,45

SOLENOID BRAKE VALVE ASSEMBLY

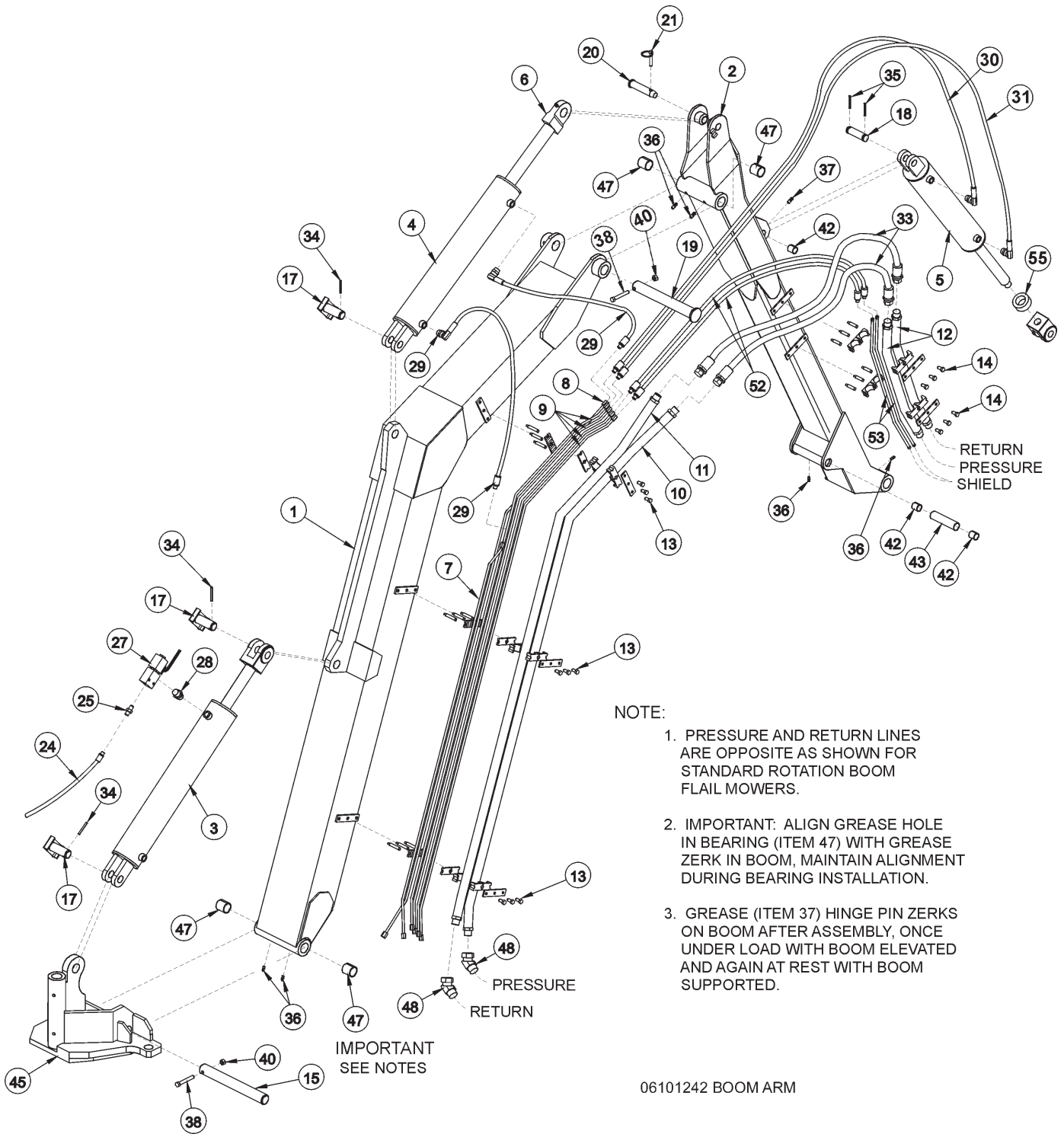
NOTE:

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



ITEM	PART NO.	QTY.	DESCRIPTION
*	34116	AVAIL	SOLENOID BRAKE VALVE ASSEMBLY - HIGH PRESSURE
1	34092	1	BRAKE VALVE, BLANK
2	34090	1	RELIEF VALVE, 3500 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	34699	1	COIL, 12 VDC, BRAKE VALVE
**	34096	2	RELIEF SEAL KIT
**	34097	1	SOLENOID SEAL KIT
**	34098	2	ELEMENT SEAL KIT
7	33555	1	ADAPTER 1" MORB x 1" MJIC
8	33554	2	ELBOW 1" MORB x 1" MJIC 45°

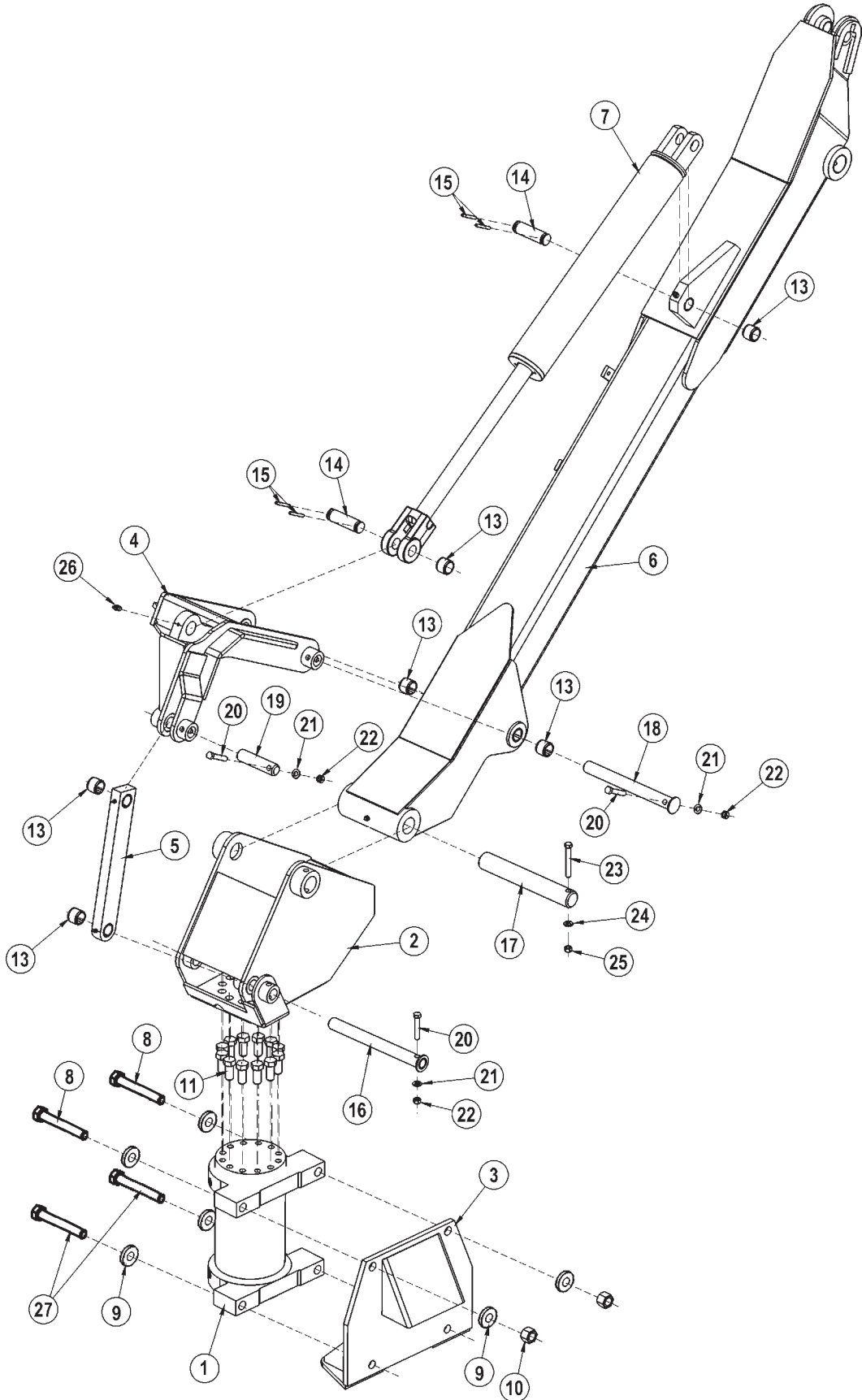
IT - BOOM ASSEMBLY



IT - BOOM ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06700032	1	MAIN BOOM, IT, W/ BEARINGS
2	06700034	1	SECONDARY BOOM, IT, W/ BEARINGS
3	35196	1	CYLINDER 5" X 20" - WELDED
4	35192	1	CYLINDER 4" X 20" - WELDED
5	35193	1	CYLINDER 3" X 18" - WELDED
6	30172	1	CLEVIS W/ SPHERICAL BEARING
7	06506028	1	PREFORMED TUBE #3, IT
8	06506025	1	PREFORMED TUBE #1, IT
9	06506026	4	PREFORMED TUBE #2, IT
10	24034A	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	24035A	1	PREFORMED TUBE MAIN BOOM RETURN
12	2403306	2	PREFORMED TUBE
13	33440	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	06420022	1	PIN, 1.50 X 12.75, W/.44 HOLES
17	TB1045B	3	PIN, PRIMARY CYL (BRKT HEAD)
18	6T3003D	1	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 -11/16" CYLINDER
21	TF1143	1	LYNCH PIN, 7/16" X 2" CYLINDER
24	06500193	1	HOSE - 3/8" X 143"
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR
27	06510050	1	TRAVEL LOCK, METRIPAK COIL
28	31329	1	ADAPTER - 1/2OR X 1/2 ADJ OR
29	06500194	2	HOSE - 3/8" X 20"
30	06500195	1	HOSE - 3/8" X 48"
31	06500196	1	HOSE - 3/8" X 68"
33	24488	2	HOSE 1" X 40"
34	6T3014	3	ROLL PIN 1/4" X 2"
35	TB1023	2	ROLL PIN 7/32" X 2"
36	6T3211	6	GREASE ZERK 1/8"
37	6T3207	3	GREASE ZERK 1/4"
38	21688	2	CAPSCREW 7/16" X 3 1/4"
40	21677	2	NYLOCK NUT, 7/16 NC
42	TB3010	3	BUSHING
43	TB1035	1	BUSHING SPACER
45	06700033	1	SWIVEL, IT, W/ BEARINGS
46	35260	1	HOSE COVER 40" (NOT SHOWN)
47	32321	4	BEARING 2"
48	24724	2	ADAPTER
52	32680	2	HOSE 3/8" X 43"
53	06506027	2	PREFORMED TUBE, SEC, IT
55	35312	1	SET COLLAR, 2 PC, 1.38 I.D.

IT - FLAIL HELAC



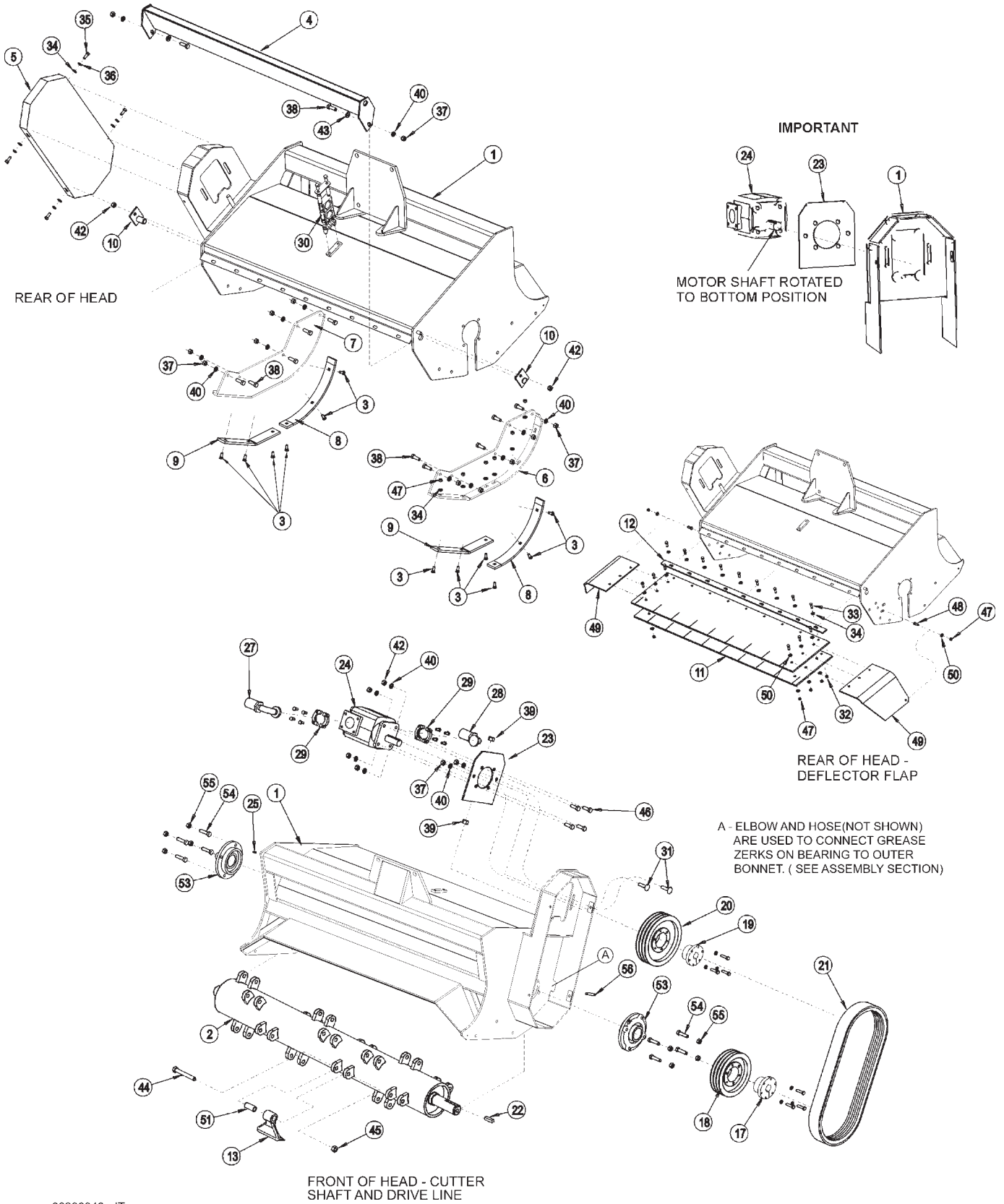
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Parts Section 5-18

IT - FLAIL HELAC

ITEM	PART NO.	QTY.	DESCRIPTION
1	06505025	1	HELAC, L30
2	06310020	1	TREE, IT
3	06310021	1	TREE MOUNT (PART OF BONNET)
4	TB1032	1	PIVOT ASSEMBLY
5	TB1028	1	ARM, PIVOT
6	06700034	1	SECONDARY BOOM
7	35193	1	CYLINDER, 3X18
8	06530211	2	CAPSCREW, 3/4" X 4-3/4", NF, GR8
9	33880	6	FLATWASHER, 3/4" GR8, SAE
10	06532000	2	LOCKNUT, 3/4" NF, GR8
11	06530208	12	CAPSCREW, 5/8" X 1-1/2", NC, GR8
13	TB3010	6	BUSHING, 1
14	6T3003D	2	PIN, CLEVIS, 1X3.5
15	TB1023	4	ROLLPIN, 7/32" X 2"
16	TB1027	1	PIN, DECK PVT ARM 1" X 10-1/2"(CAP)
17	TF4516	1	PIN, SWIVEL 1-1/2" X 10-3/4"
18	TF3097	1	PIN, DECK PVT ARM 1" X 9-1/2"
19	TB1030	1	PIN, PVT ARM 1" X 4"
20	21635	3	CAPSCREW, 3/8" X 2-1/4"
21	21988	3	LOCKWASHER, 3/8"
22	21627	3	NYLOCK NUT, 3/8"
23	21688	1	CAPSCREW, 7/16" X 3-1/4" NC
24	21989	1	LOCKWASHER, 7/16"
25	21677	1	NYLOCK NUT, 7/16" NC
26	6T3207	1	GREASE ZERK
27	06530210	2	CAPSCREW, 3/4" X 3-3/4", NF, GR8

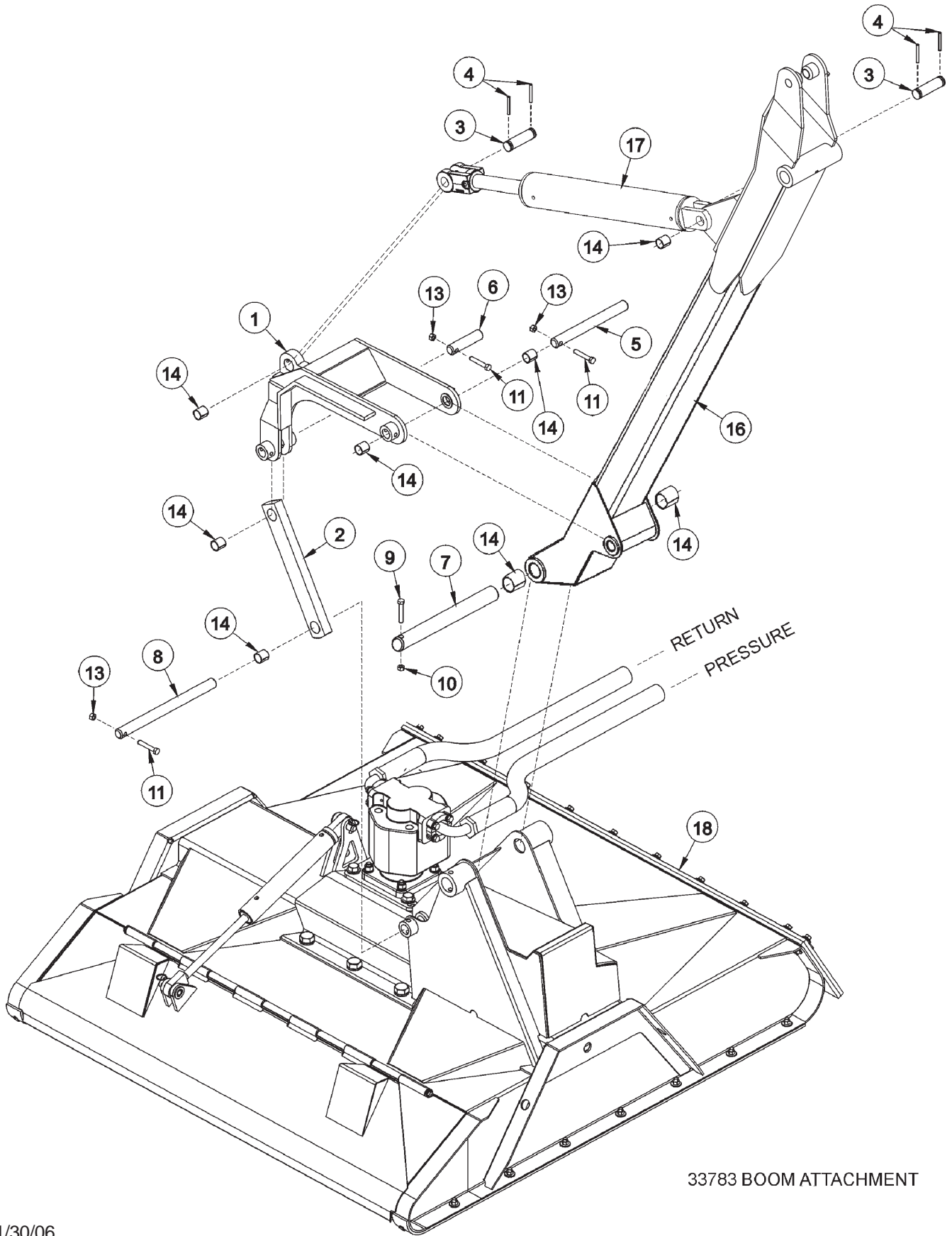
IT - FLAIL HEAD ASSEMBLY



IT - FLAIL HEAD ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06320012	1	BONNET, IT
	06700014	AVAIL.	CUTTER SHAFT - COMPLETE WITH KNIVES
2	06320010	1	CUTTER SHAFT, SABER
3	30013	12	PLOW BOLT, 3/8" X 1 1/4" NC GR5
4	32218	1	TAILGATE
5	32302	1	BELT COVER
6	06370032	1	FLAIL SKID, RIGHT, IT
7	06370031	1	FLAIL SKID, LEFT, IT
8	06410255	2	SKID SHOE, FRONT, IT
9	06410256	2	SKID SHOE, REAR, IT
10	02969051	2	PIN
11	06520166	2	DEFLECTOR FLAP
12	32636	1	DEFLECTOR FLAP BAR
13	33622	18	CUTTER BLADE
17	02967328	1	BUSHING
18	02967325	1	PULLEY - 8 1/2" DIA.
19	32696	1	BUSHING
20	02967327	1	PULLEY - 9 3/4" DIA.
21	02967774	1	BELT SET
22	02958198	1	KEY
23	32404	1	MOTOR MOUNT
24	06504013	1	MOTOR (M350 - 1 3/4 GEAR)
25	6T3211	1	GREASE ZERK
27	06500198	2	HOSE - PRESSURE TO MOTOR 1" X 150"
28	" "		HOSE - RETURN FROM MOTOR 1" X 150"
29	TF4852	2	FLANGE KIT
30	06505024	1	CLAMP KIT,
31	6T2267	2	CARRIAGE BOLT - 1/2" X 1 1/2"
32	21625	9	HEX NUT - 3/8"
33	21633	15	CAPSCREW - 3/8" X 1 3/4"
34	22016	25	FLATWASHER - 3/8"
35	21629	4	CAPSCREW - 3/8" X 3/4"
36	21988	4	LOCKWASHER - 3/8"
37	21725	14	HEX NUT - 1/2"
38	21731	12	CAPSCREW - 1/2" X 1 1/2"
39	21775	2	HEX NUT - 5/8"
40	21990	18	LOCKWASHER - 1/2"
42	6T2418	6	HEX NUT - 1/2" GRADE 8 STOVER
43	22018	2	FLATWASHER - 1/2" WIDE
44	33346	18	CAPSCREW - SPECIAL BLADE RETAINING PARTS
45	32674	18	HEX NUT - SPECIAL BLADE RETAINING PARTS
46	21732	4	CAPSCREW - 1/2" X 1 3/4"
47	21627	20	NYLOCK NUT - 3/8"
48	21631	2	CAPSCREW - 3/8" X 1 1/4"
49	06520166	2	FLAP
50	6T2615	14	FENDER WASHER - 3/8"
51	33621	18	BUSHING
53	06520089	2	BEARING, SABER, CUTTERSHAFT
54	06530205	8	CAPSCREW, 7/16" X 1 1/2" (Installed from inside bonnet)
55	24701	8	HEX NUT, 7/16"
56	TF1033	1	GREASE ZERK

IT ROTARY PIVOT ASSY

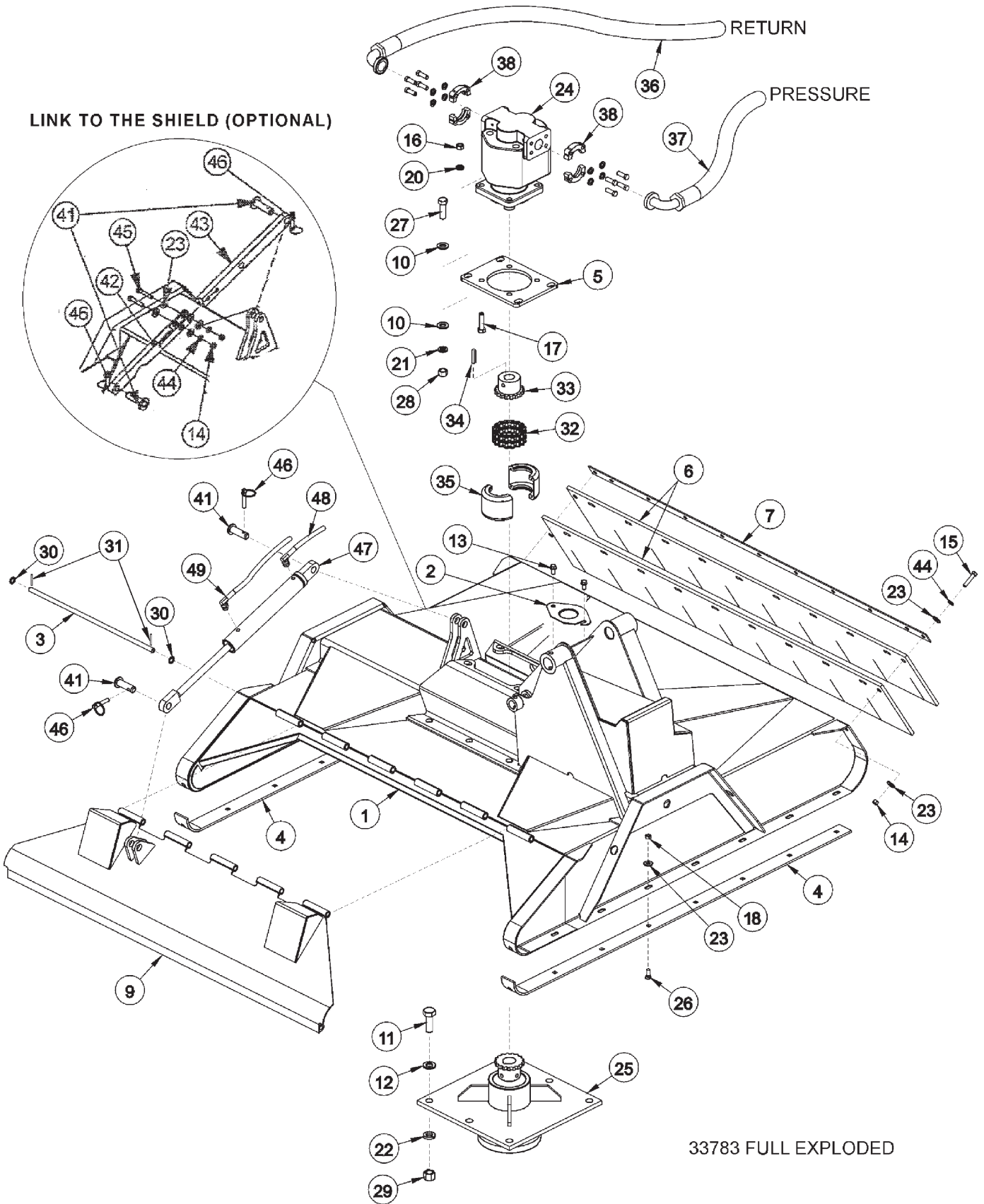


33783 BOOM ATTACHMENT

IT ROTARY PIVOT ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	PIVOT ASY
2	TB1028	1	PIVOT ARM WITH BUSHINGS ADN ZERKS
3	6T3003D	2	PIN, CLEVIS
4	TB1023	4	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	33985	1	PIN
8	33986	1	PIN
9	21688	1	CAPSCREW 7/16" X 2-3/4", NC
10	21677	1	NYLOCK NUT, 7/16", NC
11	21635	3	CAPSCREW 3/8" X 2 1/4"
13	21627	3	NYLOCK NUT 3/8"
14	TB3010	8	BUSHING
16	*	REF.	SECONDARY BOOM - REFER TO BOOM ARM ASSY
17	*	REF.	CYLINDER - REFER TO BOOM ARM ASSY
18	*	REF.	ROTARY MOWER HEAD - REFER TO ROTARY DECK

50" BOOM ROTARY MOWER DECK ASSY



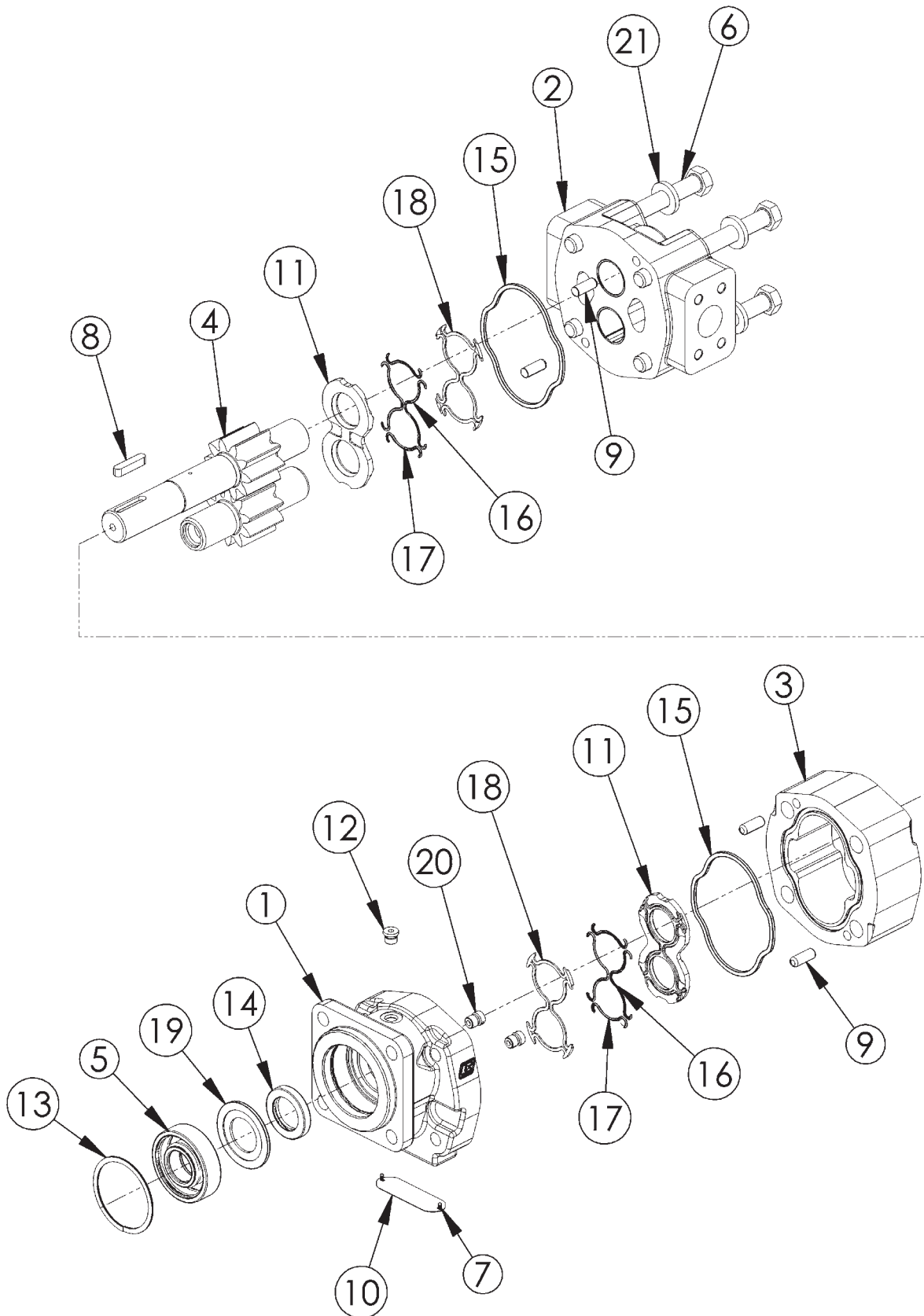
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Parts Section 5-24

50" BOOM ROTARY MOWER DECK ASSY

ITEM	P/N	QTY	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33779	1	PLATE, COVER, KNIFE HOLE
3	33778	1	HINGE PIN,50" RTRY
4	33777	2	SKID SHOE,50" RTRY
5	33776	1	MOTOR MOUNT,PLATE,50" RTRY
6	33775	2	FLAP,50" RTRY
7	33774	1	FLAP RETAINER,50" RTRY
9	33754	1	SHIELD,50"RTRY
10	33764	8	FLATWASHER,5/8",GR 8,SAE
11	33879	6	CAPSCREW, 3/4 x 2 1/4,NF GR 8
12	33880	6	FLATWASHER,3/4",GR 8,SAE
13	33881	2	CAPSCREW,FLG, 3/8 x 3/4,NC
14	21625	13	HEX NUT,3/8",NC
15	21633	11	CAPSCREW, 3/8 x 1 3/4,NC
16	21725	4	HEX NUT, 1/2" NC
17	21733	4	CAPSCREW, 1/2 x 2,NC
18	21627	16	NYLOCK NUT, 3/8",NC
20	21990	4	LOCKWASHER, 1/2"
21	21992	4	LOCKWASHER, 5/8
22	21993	6	LOCKWASHER,3/4",GR 8
23	22016	33	FLATWASHER,3/8"
24	06504012	1	MOTOR (M365-1 1/2" GEAR)
25	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
26	30013	16	PLOW BOLT,3/8" X 1 1/4" NC
27	6T2290	4	CAPSCREW,5/8x2,NF GR 8
28	6T2408	4	HEX NUT, 5/8, NF
29	6T2413	6	HEX NUT,3/4,NF,GR 8
30	33924	2	RETAINING RING,EXTERNAL,1/2"
31	6T3017	2	ROLLPIN
32	6T1029	1	COUPLER CHAIN
33	21223	1	SPROCKET
34	TF1124	1	SQUARE KEY
35	6T1033	1	COUPLER COVER WITH HARDWARE AND SEALS
36	24489	1	HOSE - RETURN
37	24490	1	HOSE - PRESSURE
38	TF4852	2	FLANGE KIT - #20
41	33984	2	PIN,SHIELD,50"
42	33773	1	LINK 2, SHIELD 50" RTRY (OPTIONAL)
43	33772	1	LINK, SHIELD 50" RTRY (OPTIONAL)
44	21988	11	LOCKWASHER, 3/8"
45	21634	2	CAPSCREW, 3/8" x 2, NC
46	RD1032	2	LYNCH PIN
47	33785	1	1-1/2" X 8", CYLINDER, WELDED
48	34186	1	HOSE 1/4" X 66"
49	34187	1	HOSE 1/4" X 75"

IT - FLAIL MOTOR - HIGH PRESSURE



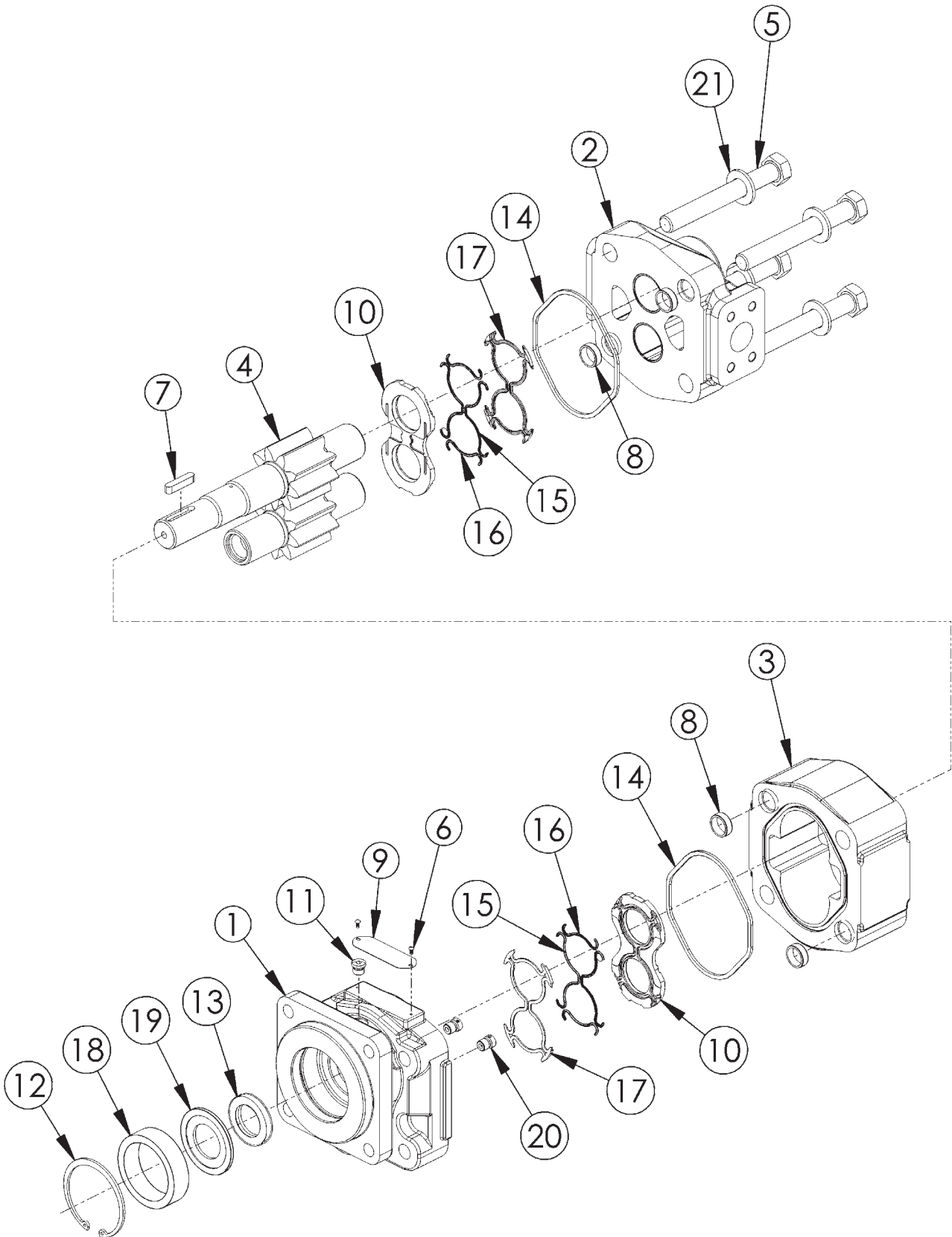
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Parts Section 5-26

IT - FLAIL MOTOR - HIGH PRESSURE

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504013	AVAIL	MOTOR ASSEMBLY 350 - SABER FLAIL
1	06504039	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504042	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
10		1	NAMEPLATE
11	763759	2	THRUSTPLATE
12	02961940	1	HEX PLUG
13	TF4401	1	SNAP RING
14	06504049	1	LIP SEAL (INCLUDED IN SEAL KIT)
15	TF4410	2	GASKET SEAL (INCLUDED IN SEAL KIT)
16	06504046	4	SIDE SEAL (INCLUDED IN SEAL KIT)
17	06504047	4	END SEAL (INCLUDED IN SEAL KIT)
18	TF4407	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
19	06504048	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	02961917	4	WASHER
*	06504022	AVAIL	SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

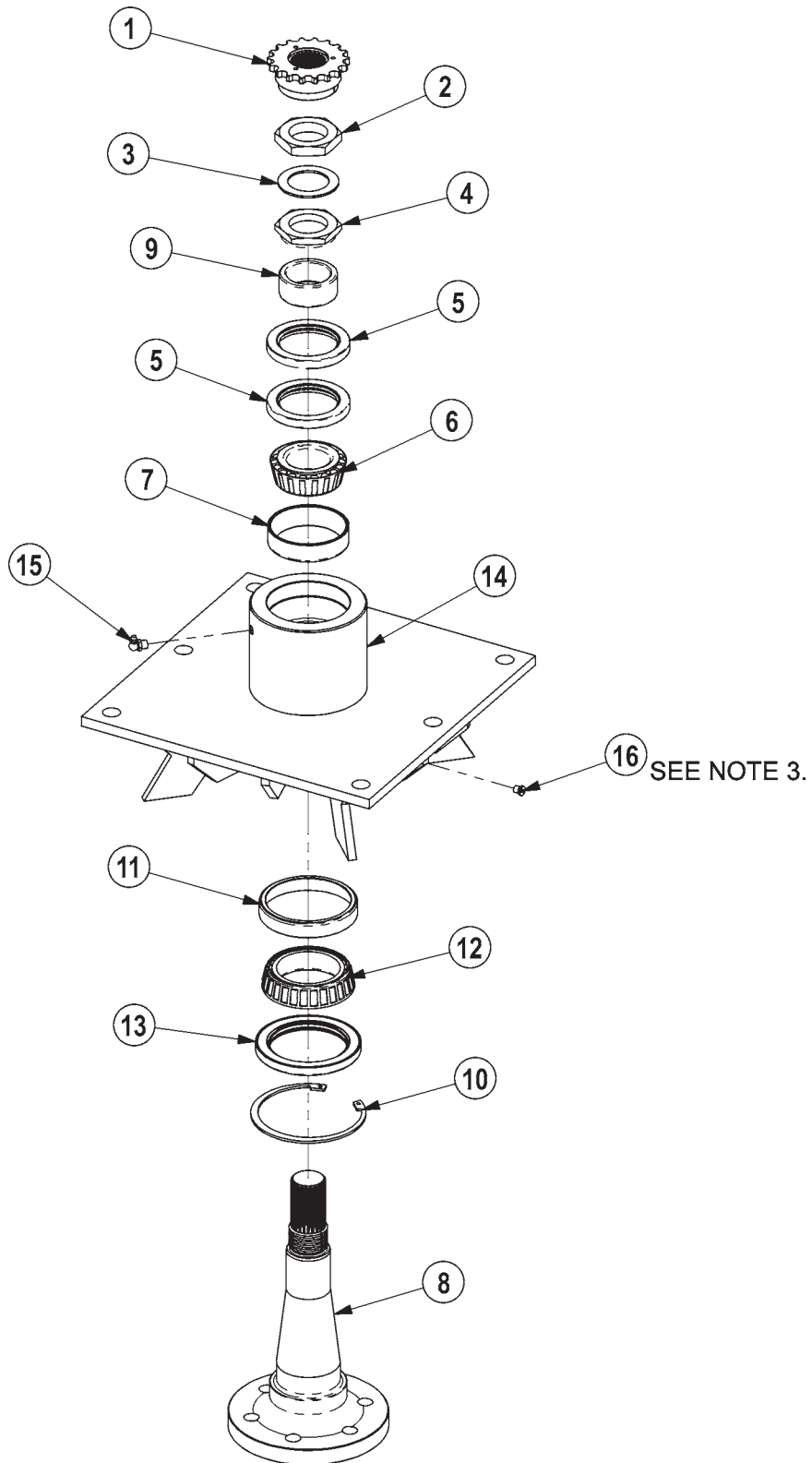
IT - ROTARY MOTOR - HIGH PRESSURE



IT - ROTARY MOTOR - HIGH PRESSURE

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504012	AVAIL	MOTOR ASSEMBLY - 50" ROTARY
1	22790	1	SHAFT END COVER
2	06504025	1	PORT END COVER
3	02404206	1	GEAR HOUSING
4	06504038	1	MATCHED GEAR SET
5	06504037	4	CAP SCREW
6	06504027	2	SET SCREW
7	06504028	1	KEY
8	02962201	4	DOWEL PIN
9		1	NAMEPLATE
10	06504029	2	THRUSTPLATE
11	02961940	1	HEX PLUG
12	6T5200	1	SNAP RING
13	06504030	1	LIP SEAL (INCLUDED IN SEAL KIT)
14	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
15	06504031	4	SIDE SEAL (INCLUDED IN SEAL KIT)
16	06504032	4	END SEAL (INCLUDED IN SEAL KIT)
17	06504033	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
18	06504034	1	SPACER
19	06504035	1	SEAL RETAINER
20	22791	2	CHECK ASSEMBLY
21	06504036	4	WASHER
*	06504022	AVAIL	SEAL KIT (INCLUDES 13, 14, 15, 16 AND 17)

SPINDLE ASSEMBLY



NOTES:

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

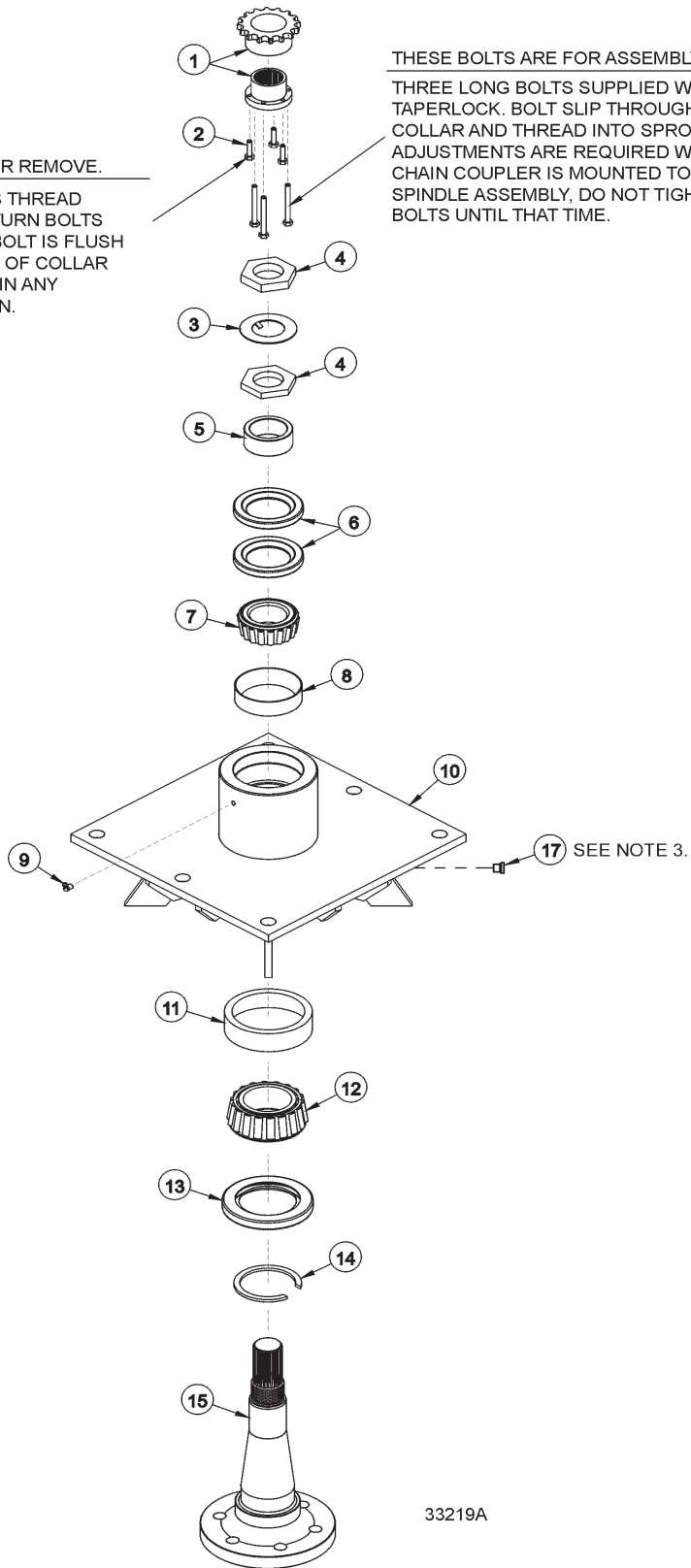
SPINDLE ASSEMBLY

ITEM	PART NO.	QTY	DESCRIPTION
	33219	OPT.	SPINDLE ASSY 50" ROTARY
1	33197	1	SPROCKET, SABER
2	6T1016	1	BEARING LOCKNUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUST NUT - THIN
5	6T1011	2	UPPER SEAL - SMALL
7	6T1012	1	BEARING CONE - SMALL
8	6T1013	1	BEARING CUP - SMALL
8	33186	1	SPINDLE, SABER
9	33248	1	BEARING ADJUST SLEEVE
10	33202	1	SNAP RING
11	33200	1	BEARING CUP - LARGE
12	33199	1	BEARING CONE -LARGE
13	33201	1	LOWER SEAL - LARGE
14	32953	1	SPINDLE HOUSING, SABER
15	6T3210	1	GREASE ZERK
16	06503064	1	O-RING PLUG, 1/8"

SPINDLE ASSEMBLY

THESE BOLTS ARE FOR REMOVE.
 THREE SHORT BOLTS THREAD INTO COLLAR ONLY. TURN BOLTS INTO COLLAR UNTIL BOLT IS FLUSH WITH BACK SURFACE OF COLLAR BOSS. DO NOT TURN IN ANY FURTHER OR TIGHTEN.

THESE BOLTS ARE FOR ASSEMBLY.
 THREE LONG BOLTS SUPPLIED WITH TAPERLOCK. BOLT SLIP THROUGH COLLAR AND THREAD INTO SPROCKET. ADJUSTMENTS ARE REQUIRED WHEN CHAIN COUPLER IS MOUNTED TO SPINDLE ASSEMBLY, DO NOT TIGHTEN BOLTS UNTIL THAT TIME.



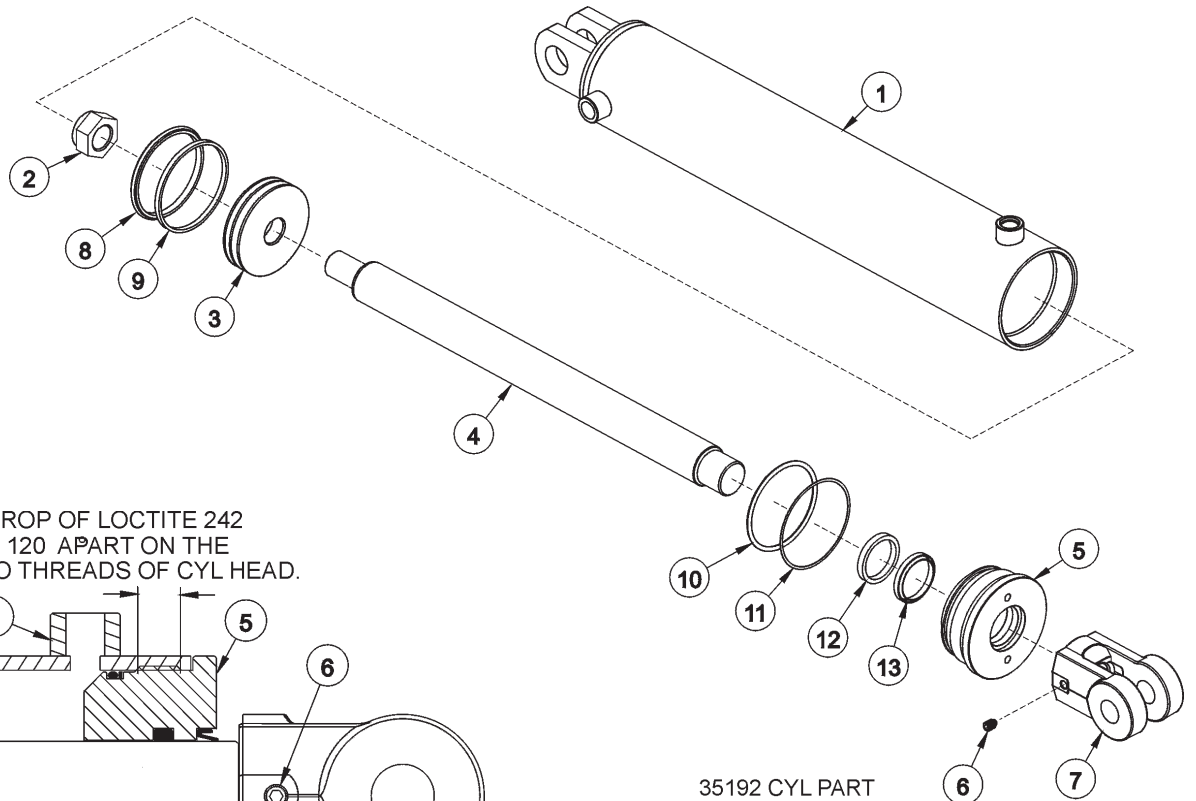
33219A

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

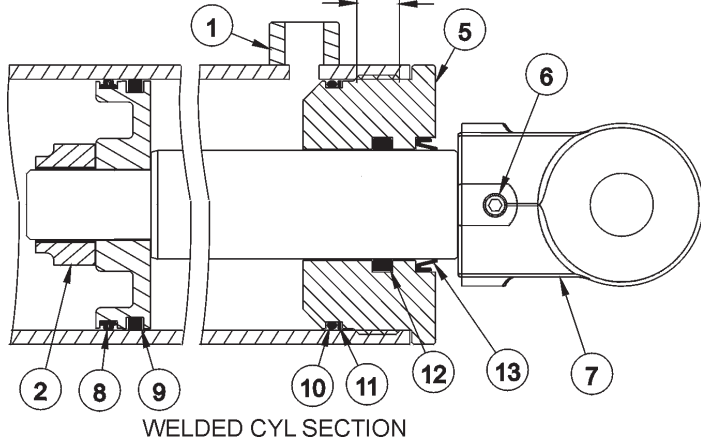
SPINDLE ASSEMBLY

ITEM	PART NO.	QTY	DESCRIPTION
	33219	OPT.	SPINDLE ASSY 50" ROTARY
1	34480	1	TAPERLOCK SPROCKET
2	21530	3	CAPSCREW 1/4" X 1"
3	22596	1	JAM WASHER
4	6T1015	2	BEARING LOCK NUT - THIN
5	33248	1	BEARING ADJUST SLEEVE
6	6T1011	2	UPPER SEAL - SMALL
7	6T1012	1	BEARING CONE - SMALL
8	6T1013	1	BEARING CUP - SMALL
9	6T3210	1	GREASE ZERK
10	32953	1	SPINDLE HOUSING, SABER
11	33200	1	BEARING CUP - LARGE
12	33199	1	BEARING CONE -LARGE
13	33201	1	LOWER SEAL - LARGE
14	33202	1	SNAP RING
15	33186	1	SPINDLE, SABER
17	06503064	1	O-RING PLUG, 1/8"

4" WELDED CYLINDER PARTS



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



35192 CYL PART

PISTON NUT

NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

TORQUE

ROD CLEVIS SET SCREW

3/8-16 UNC	20 FT. LB
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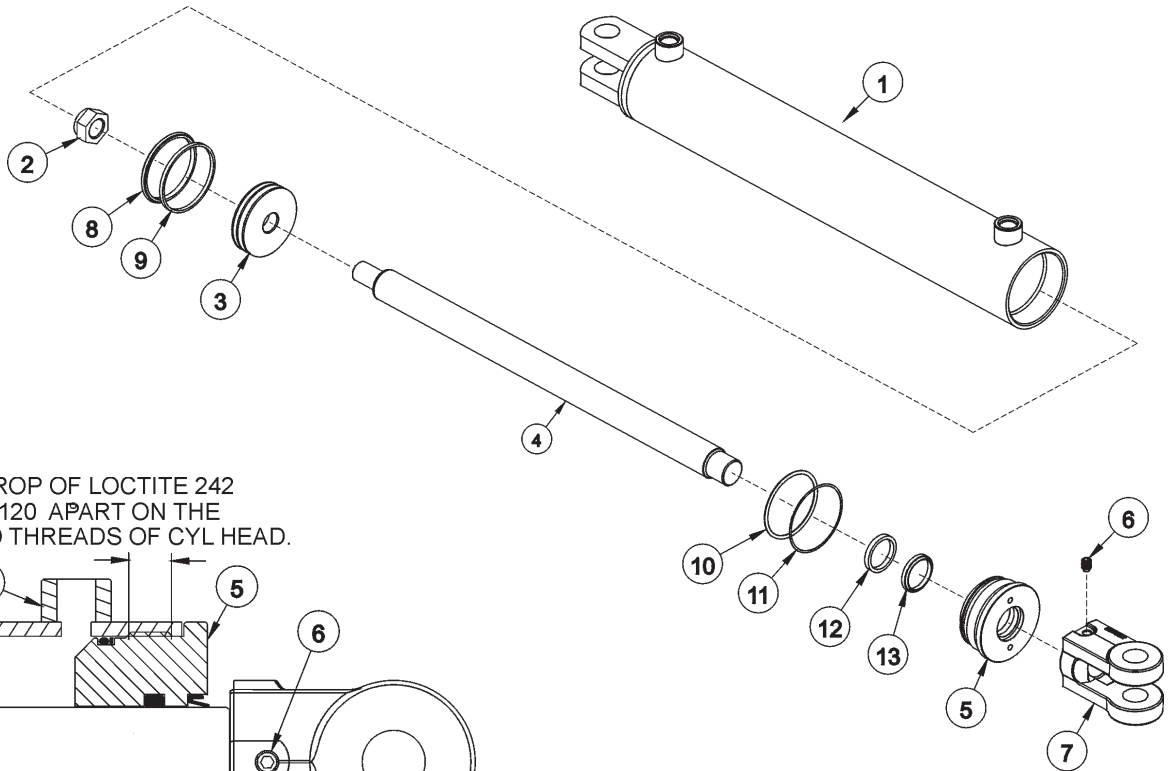
TORQUE

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

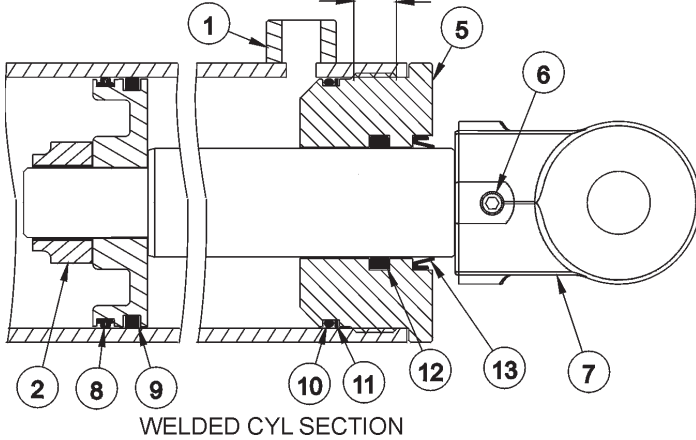
ITEM	PART NO.	QTY.	DESCRIPTION
*	35192	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	34911	1	TUBE WELDMENT
2	34916	1	LOCKNUT
3	34913	1	PISTON
4	34914	1	CYLINDER ROD
5	34912	1	CYLINDER HEAD
6	34905	1	SET SCREW
7	34915	1	ROD CLEVIS
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	34917	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

3" WELDED CYLINDER PARTS



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



35193 CYL PART

PISTON NUT

NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

TORQUE

ROD CLEVIS SET SCREW

3/8-16 UNC	20 FT. LB
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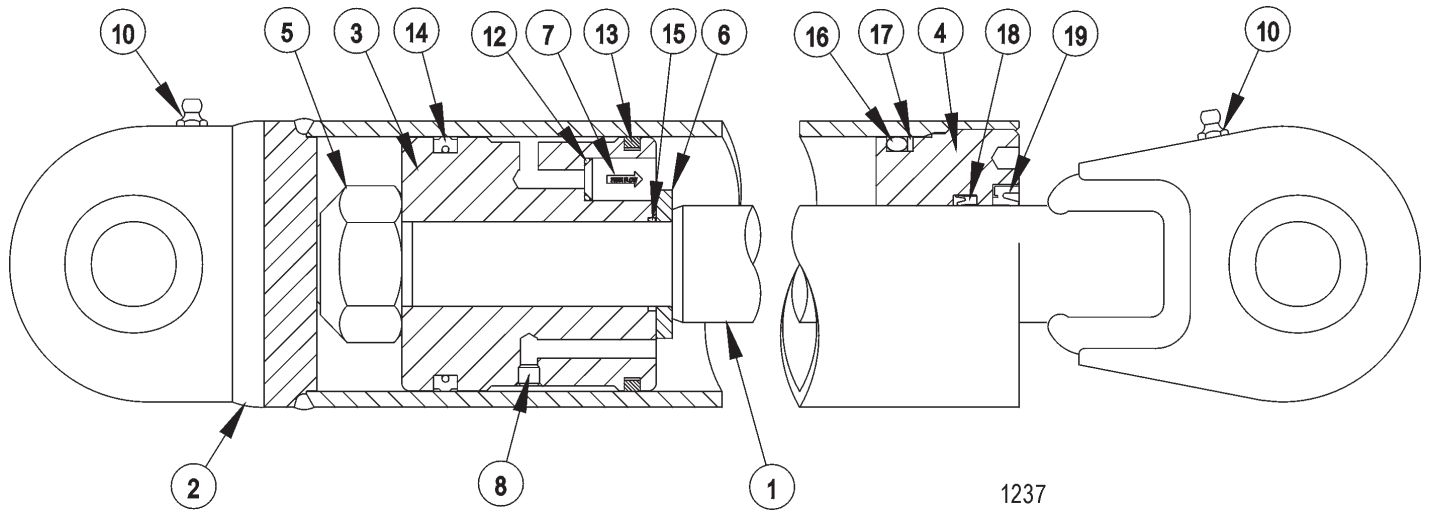
TORQUE

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

ITEM	PART NO.	QTY.	DESCRIPTION
*	35193	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	34900	1	TUBE WELDMENT
2	34906	1	LOCKNUT
3	34902	1	PISTON
4	34903	1	CYLINDER ROD
5	34901	1	CYLINDER HEAD
6	34905	1	SET SCREW
7	34904	1	ROD CLEVIS
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	34918	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

WELDED CYLINDER



3" X 30" CYLINDER #33705

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

WELDED CYLINDER

4" X 27" CYLINDER #32365

ITEM	PART NO.	QTY.	DESCRIPTION
1	34580	1	PISTON ROD ASY
2	34581	1	BUTT & TUBE ASY
3	34582	1	PISTON
4	34583	1	GLAND
5	34584	1	LOCK NUT
9	33757	1	SEAL KIT, PACKING (INCLUDES ITEMS 12 THRU 19)
10		2	GREASE ZERK
12		1	O - RING
13		1	CAST IRON PISTON RING
14		1	CROWN SEAL
15		1	O - RING
16		1	O - RING
17		1	BACK - UP WASHER
18		1	U - CUP
19		1	WIPER
20	34335	AVAIL	SPHERICAL BEARING (NOT SHOWN)

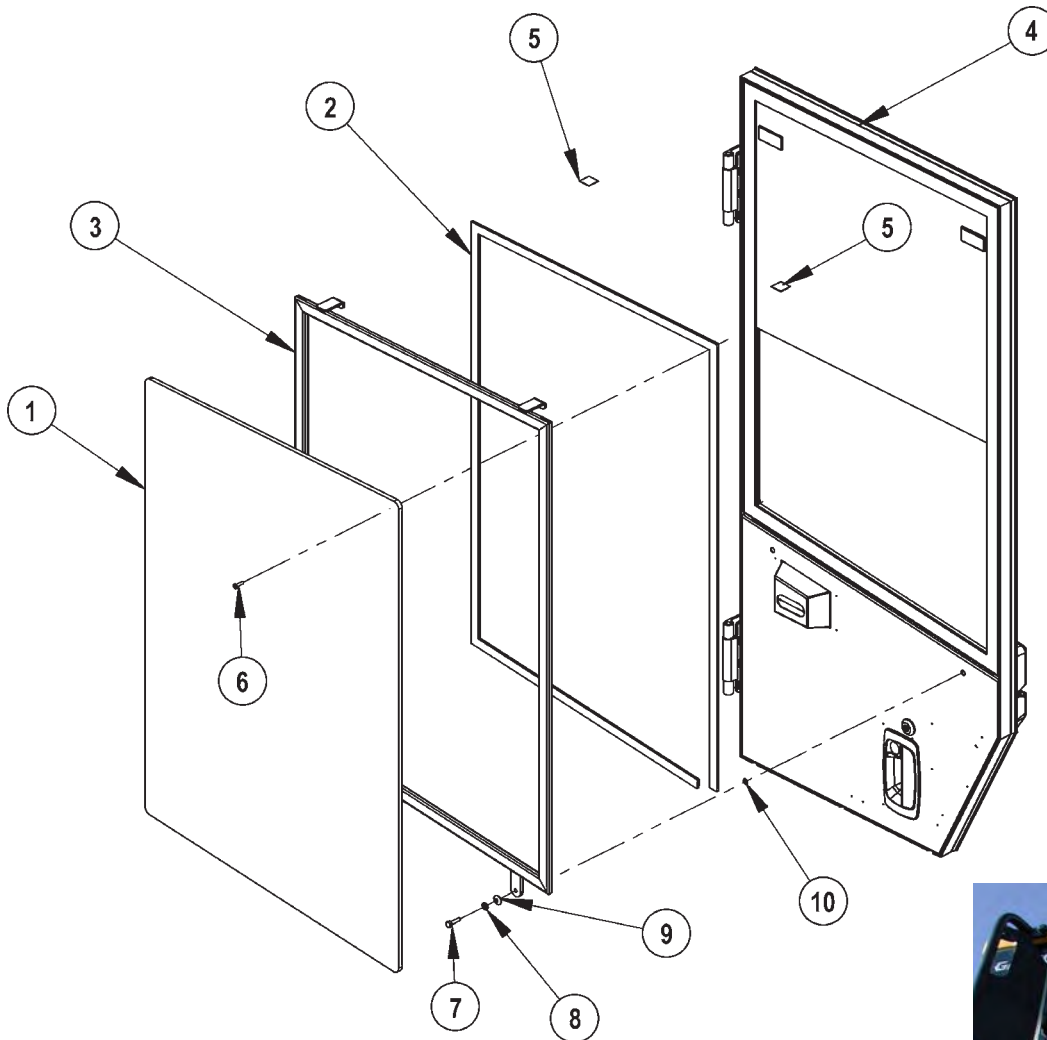
4 1/2" X 39" CYLINDER #32364

1	34586	1	PISTON ROD ASY
2	34587	1	BUTT & TUBE ASY
3	34588	1	PISTON
4	34589	1	GLAND
5	34590	1	LOCK NUT
9	33758	1	SEAL KIT, PACKING (INCLUDES ITEMS 12 THRU 19)
10		2	GREASE ZERK
12		1	O - RING
13		1	CAST IRON PISTON RING
14		1	CROWN SEAL
15		1	O - RING
16		1	O - RING
17		1	BACK - UP WASHER
18		1	U - CUP
19		1	WIPER
20	34335	AVAIL	SPHERICAL BEARING (NOT SHOWN)

5" X 25" CYLINDER #32363

1	34592	1	PISTON ROD ASY
2	34593	1	BUTT & TUBE ASY
3	34594	1	PISTON
4	34595	1	GLAND
5	34596	1	LOCK NUT
7	34597	1	CHECK VALVE, KEPNER
8	34598	1	ORIFICE
9	33759	1	SEAL KIT, PACKING (INCLUDES ITEMS 12 THRU 19)
10		2	GREASE ZERK
12		1	O - RING
13		1	CAST IRON PISTON RING
14		1	CROWN SEAL
15		1	O - RING
16		1	O - RING
17		1	BACK - UP WASHER
18		1	U - CUP
19		1	WIPER
20	34335	AVAIL	SPHERICAL BEARING (NOT SHOWN)

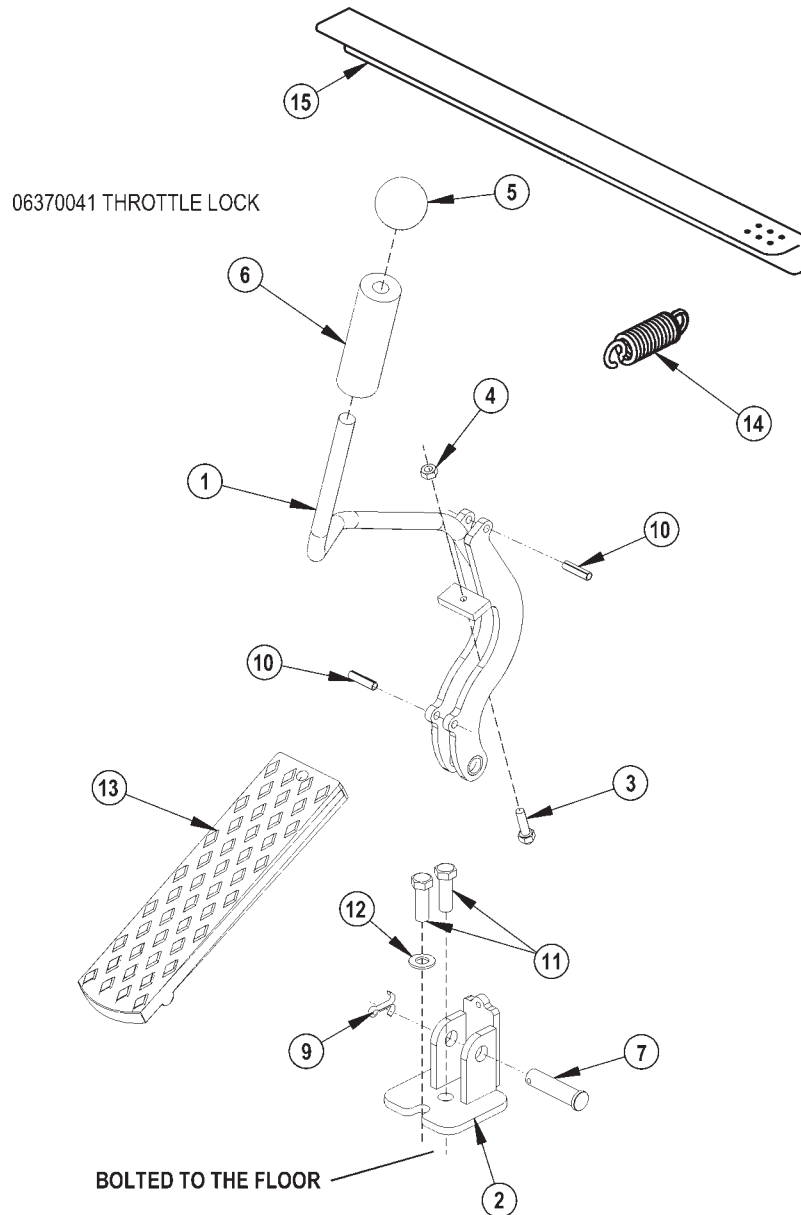
POLYCARBONATE SAFETY SCREEN



ITEM	PART NO.	QTY.	DESCRIPTION
1	06490015	1	POLYCARB,RH,KOMATSU,IT
2	06537010	11 FT	WTHR STRP,3/16x3/4,SLF ADHSV
3	06330013	1	SFTY SCR,N,KOMATSU,IT,RH
4	*	EXISTING	KOMATSU DOOR
5	06497000	2	PAD, 1X1
6	6T3954	20	POP RIVET,3/16 X 3/4(LRG HD)
7	21530	2	CAPSECREW - 1/4" X 1" NC
8	21986	2	LOCKWASHER,1/4
9	06537001	2	WASHER,RUBBERIZED,.25,CONICAL
10	06537006	2	THREADED INSERT,1/4x1/2 NC

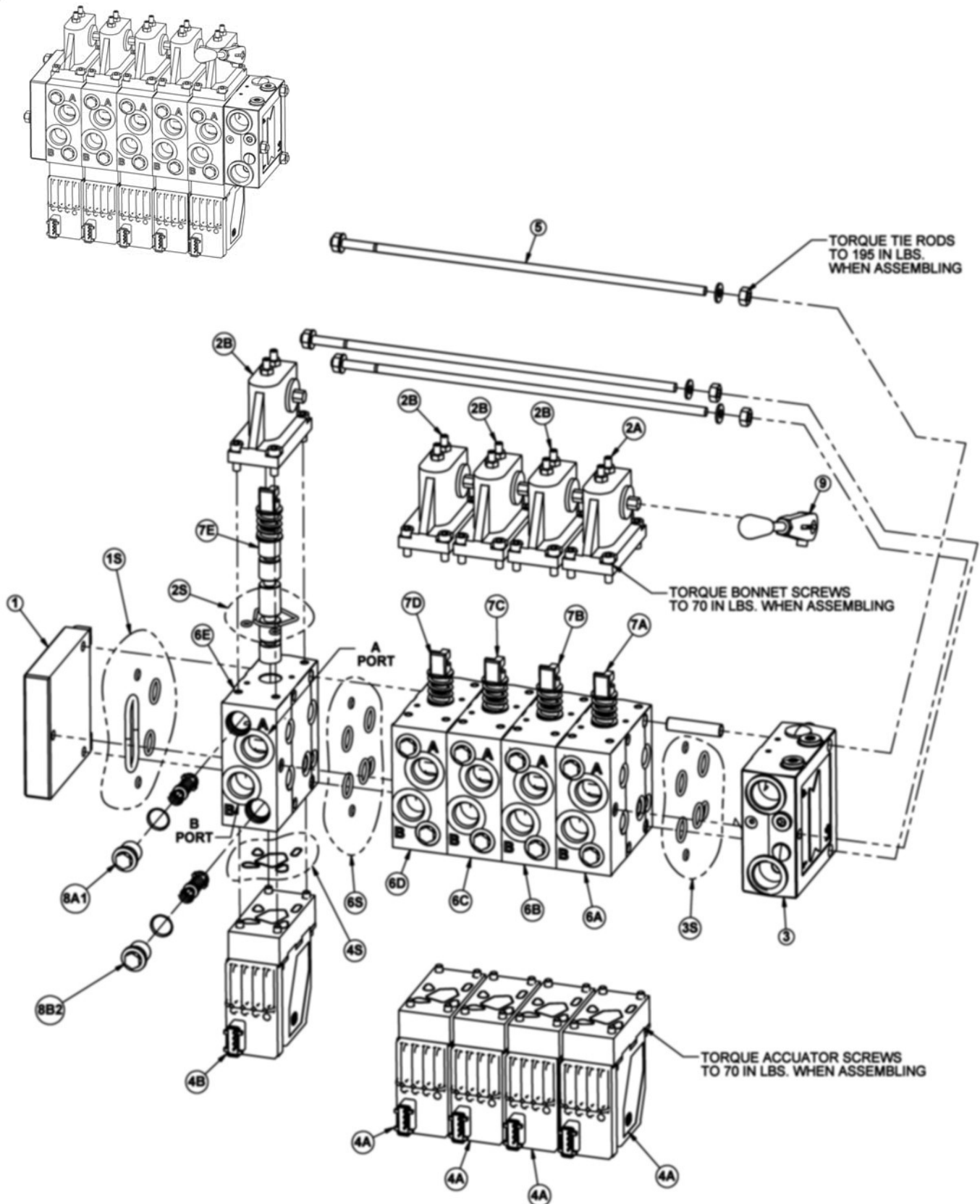
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IT - THROTTLE LOCK



ITEM	PART NO.	QTY.	DESCRIPTION
1	06370041	1	THROTTLE LOCK, IT
2	06370042	1	BASE, THROTTLE LOCK, IT
3	06420036	1	THREADED ROD, 1/4" X 1 1/4" NC
4	21525	1	HEX NUT, 1/4" NC
5	06520171	1	KNOB, BALL, 1/2" ID
6	06430043	1	FOAM TUBE, 4"
7	06520172	1	PIN, .50 X 2", W/ SHOULDER
9	22522	1	COTTER PIN, 5/32 X 1
10	6T3019	2	ROLLPIN, 1/4" X 1"
11	22254	2	CAPSCREW, 10MM X 50MM
12	32724	1	FLATWASHER, 10MM
13	*	EXISTING	THROTTLE PEDAL
14	06520173	1	SPRING, .38x4.50x.047, LOOP END
15	06460009	1	ANGLE, MNT, SPRING, IT

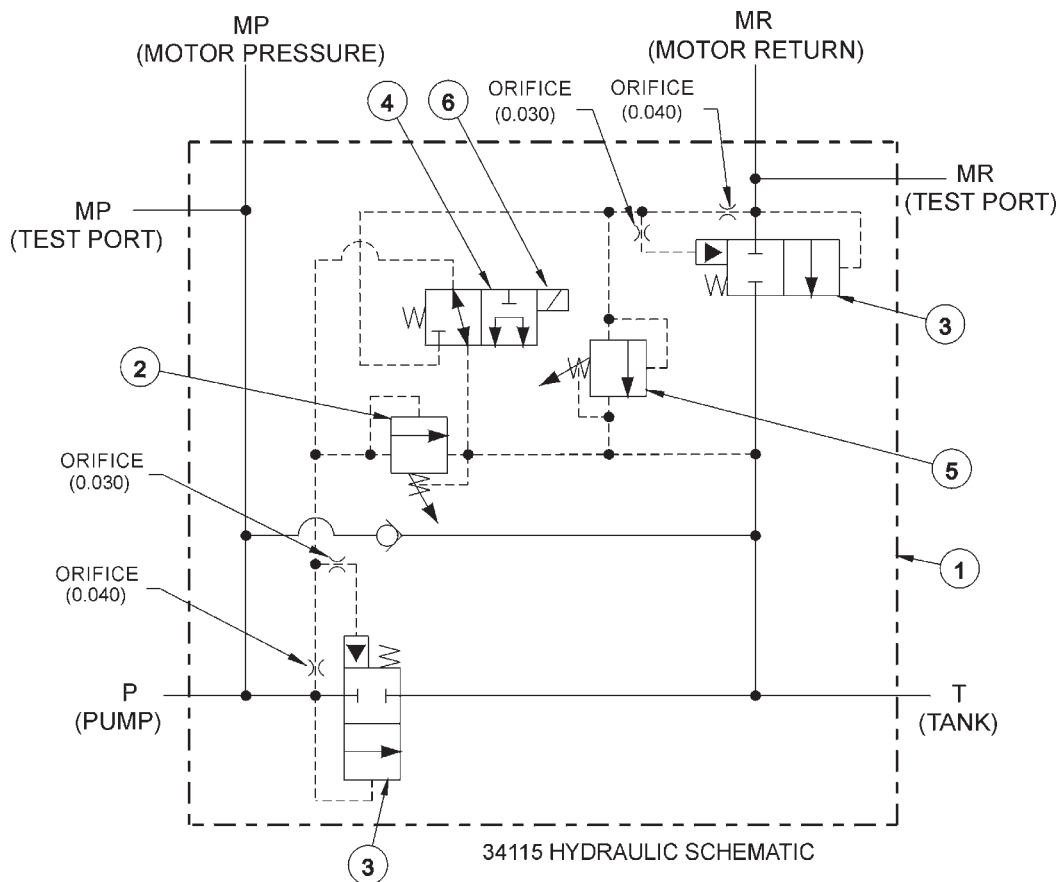
DAN FOSS VALVE BREAKDOWN



DAN FOSS VALVE BREAKDOWN

ITEM	PART NO.	QTY.	DESCRIPTION
	06502059		VLV,5SP,32PVG,IT
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	*	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	33459	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2B	42197	1	DECK ROLL BONNET
2B	42197	1	BOOM SWIVEL BONNET
2B	42197	1	DECK SHIELD BONNET
3	06502075	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4	*	5	ELECTRONIC ACCUATOR
4S	34030	1	ELECTRONIC ACCUATOR SEAL KIT
4A	06502067	1	MAIN BOOM ELECTRONIC ACCUATOR
4A	06502067	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4A	06502067	1	DECK ROLL ELECTRONIC ACCUATOR
4A	06502067	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4B	06502072	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6	*	5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	42698	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	42698	1	SHIELD SECTION
7	*	5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4229806	1	DECK ROLL BOOM SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8	*	10	ANTI CAV/SHOCK RELIEF
8A1	06502071	1	MAIN BOOM A PORT RELIEF
8A2	06502069	1	MAIN BOOM B PORT RELIEF
8B1	42197	1	SEC BOOM A PORT RELIEF
8B2	06502070	1	SEC BOOM B PORT RELIEF
8C1	42197	1	DECK ROLL A PORT RELIEF
8C2	42295	1	DECK ROLL B PORT RELIEF
8D1	42197	1	BOOM SWIVEL A PORT RELIEF
8D2	42650	1	BOOM SWIVEL B PORT RELIEF
8E1	42197	1	DECK SHIELD A PORT RELIEF
8E2	06502072	1	DECK SHIELD B PORT RELIEF
9	33459	1	HANDLE

SOLENOID BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

FAILURE MODE:

- MOWER WILL NOT START - system pressure is low (engine not lugging).
- MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure.
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.
- MOWER BLADE WILL NOT STOP - blade will not stop in proper time.

CHECK STEPS

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

CORRECTIVE STEPS:

1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3500 psi relief valve (item 2) for wear or contamination.
5. Remove and inspect orifices near "P" port for contamination.
6. Remove "P" port hose and fitting, visually inspect for contamination, check ball for movement.
7. Remove and inspect orifices near "MR" port for contamination.
8. Remove, inspect 2600 psi relief valve (item 5) for wear of contamination.
9. Remove, inspect logic element near "MR" port (item 3) for wear or contamination.

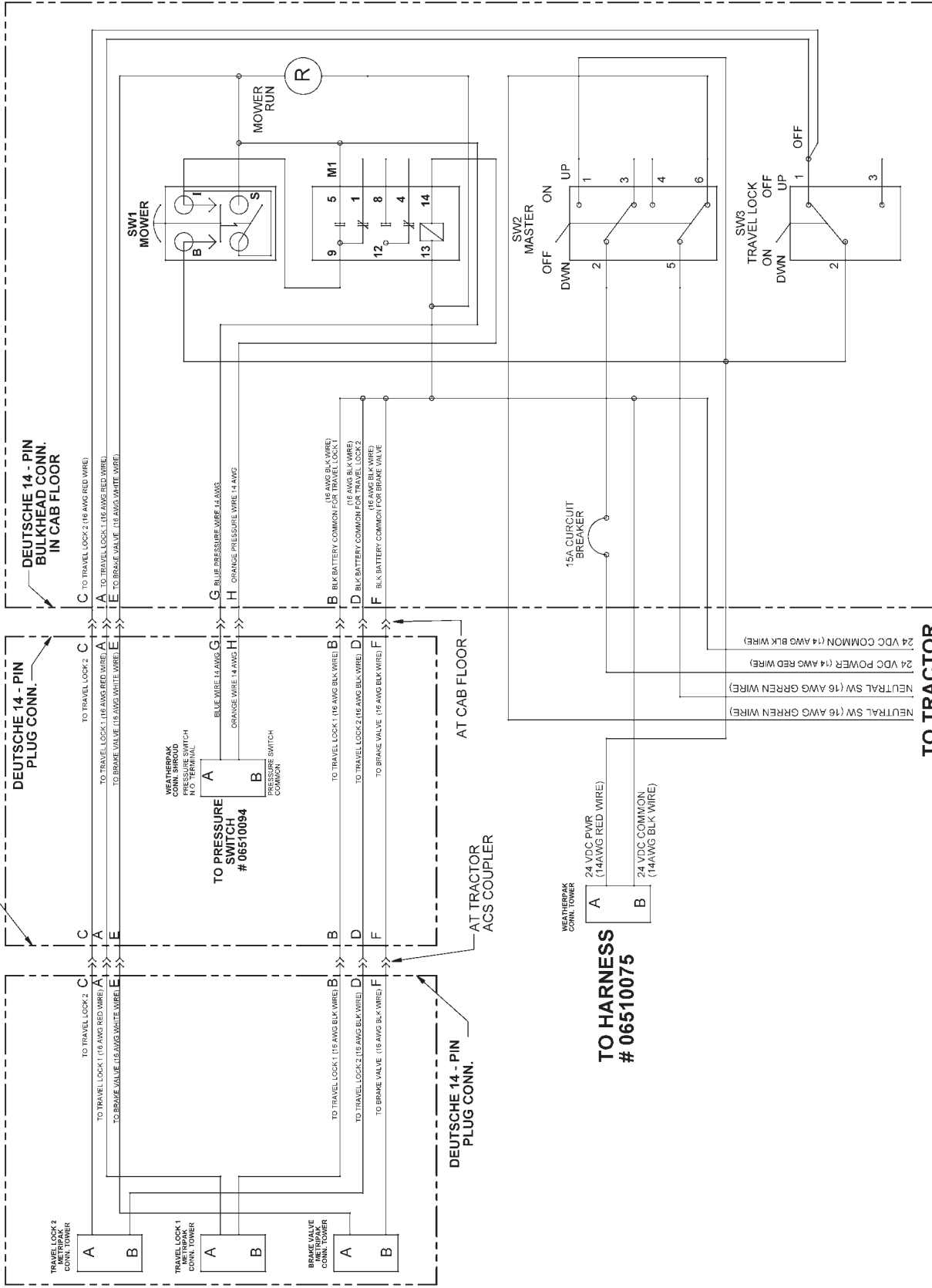
SWITCH BOX SCHEMATIC

SWITCHBOX #06510074

HARNESS #06510085

DEUTSCHE 14 - PIN BULKHEAD CONN.

HARNESS #06510086



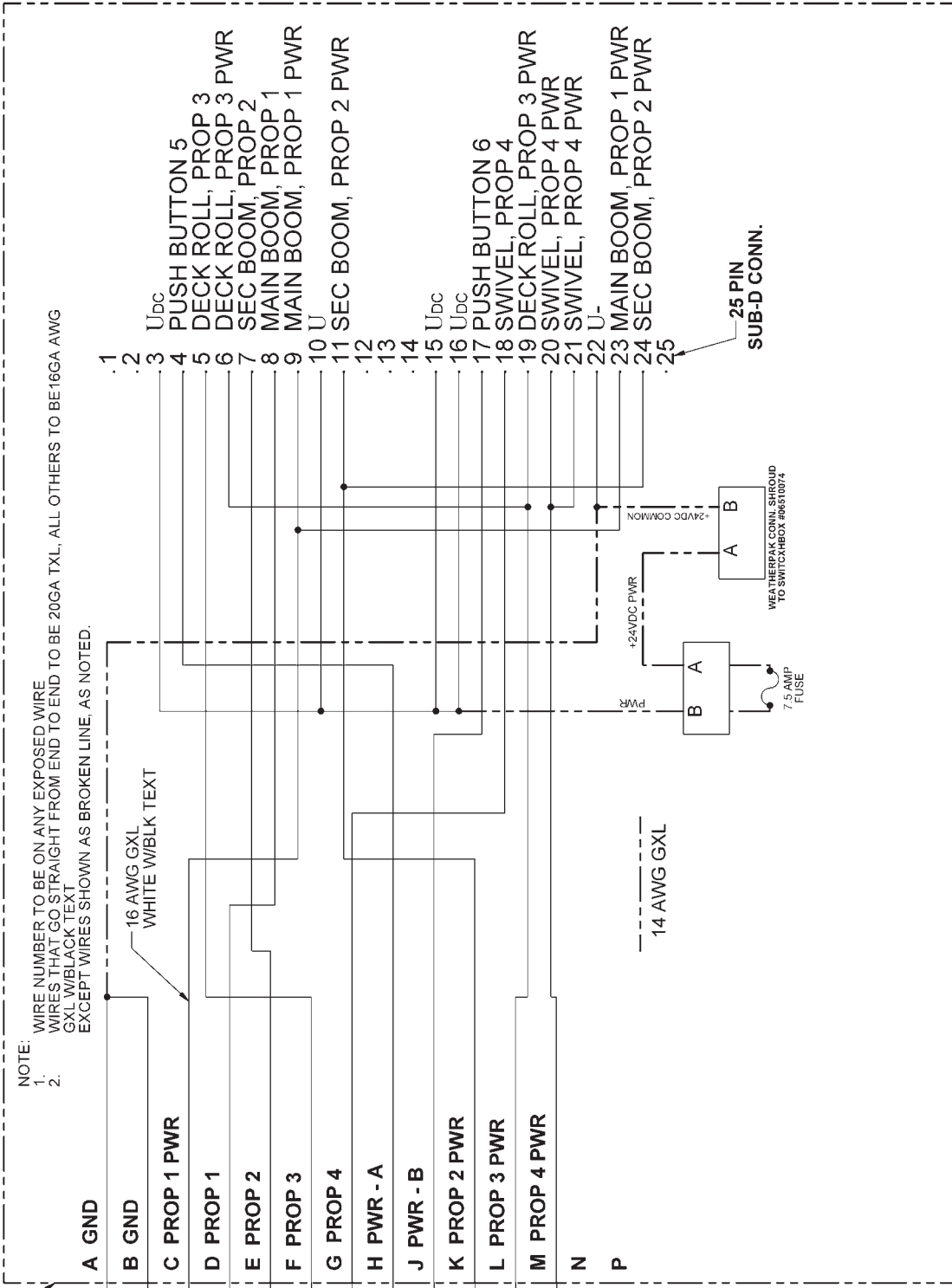
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Parts Section 5-43

BULKHEAD CONNECTOR SCHEMATIC

HARNESS
06510075

DEUTSCHE 14 - PIN
BULKHEAD CONN.



TO JOYSTICK #06510073

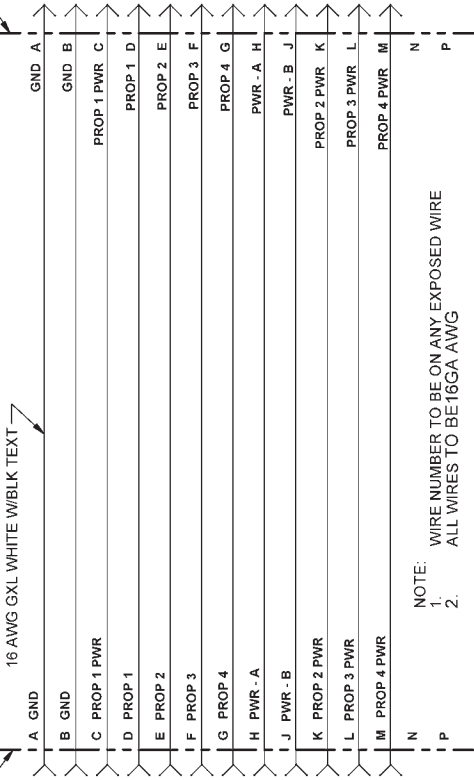
IN CAB FLOOR

BULKHEAD CONNECTOR SCHEMATIC

DEUTSCHE 14 - PIN
BULKHEAD CONN.

HARNESS
06510085

TO BULKHEAD CONNECTOR IN CAB FLOOR

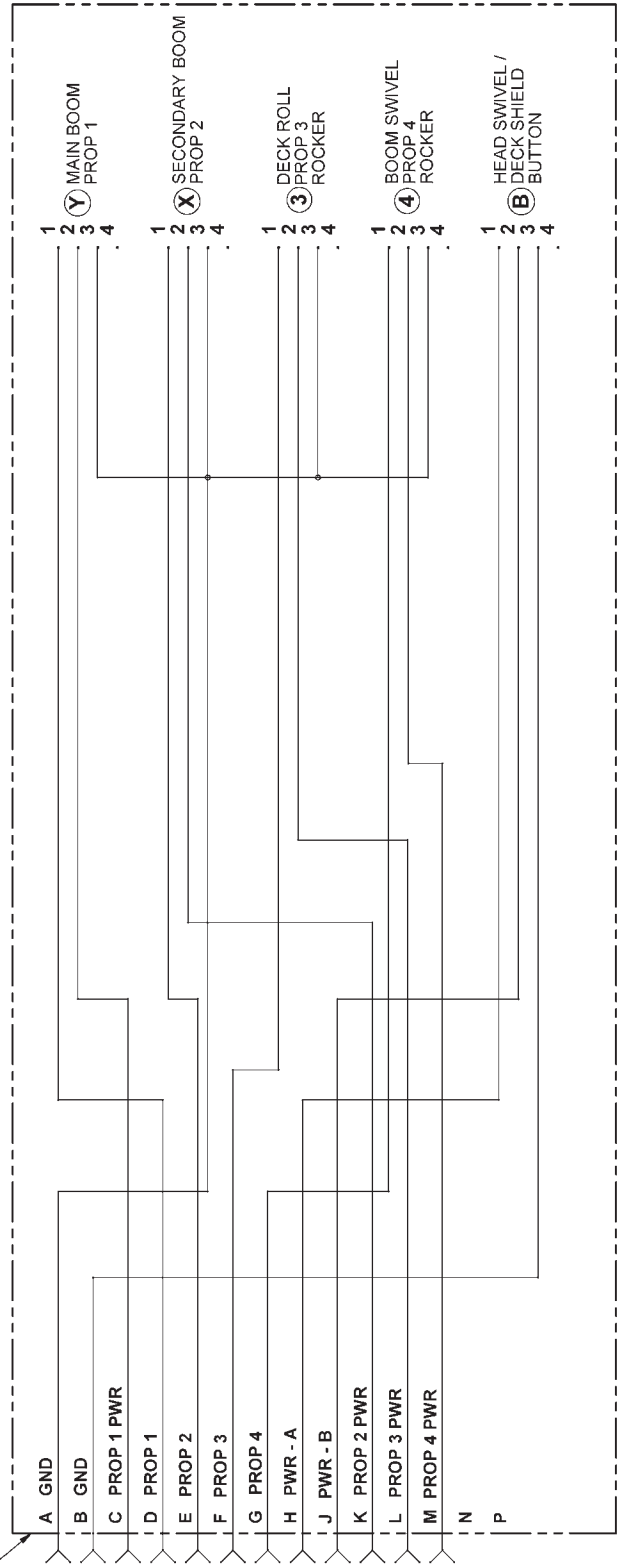


AT TRACTOR ACS COUPLER

NOTE:
1. WIRE NUMBER TO BE ON ANY EXPOSED WIRE
2. ALL WIRES TO BE 16GA AWG

DEUTSCHE 14 - PIN
PLUG CONN.

HARNESS
06510093



TO BULKHEAD CONNECTOR
AT TRACTOR ACS COUPLER

TO VALVE

3 OF 3

TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

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

Electronic inspection.

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

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

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

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

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

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

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

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

Possible electronic problems.

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

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING

Hydraulic inspection.

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

With the spools in Neutral

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

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

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

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

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

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

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

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

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

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

Operate more than one spool.

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

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

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

Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

PARTS QUICK INDEX

This section will assist you in finding the repair parts that you may need for your Tiger mower quickly and easily. The following is a list of common parts and or assemblies followed by the pages in this book where they may be found.

MAIN FRAME AND ATTACHMENTS	5-4
	5-6
	5-8
HYDRAULIC RESERVOIR AND FITTINGS	5-4
	5-6
HOSES / CABLES	5-10
	5-12
	5-14
	5-16
	5-18
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BOOM MOWER COMMON SECTION

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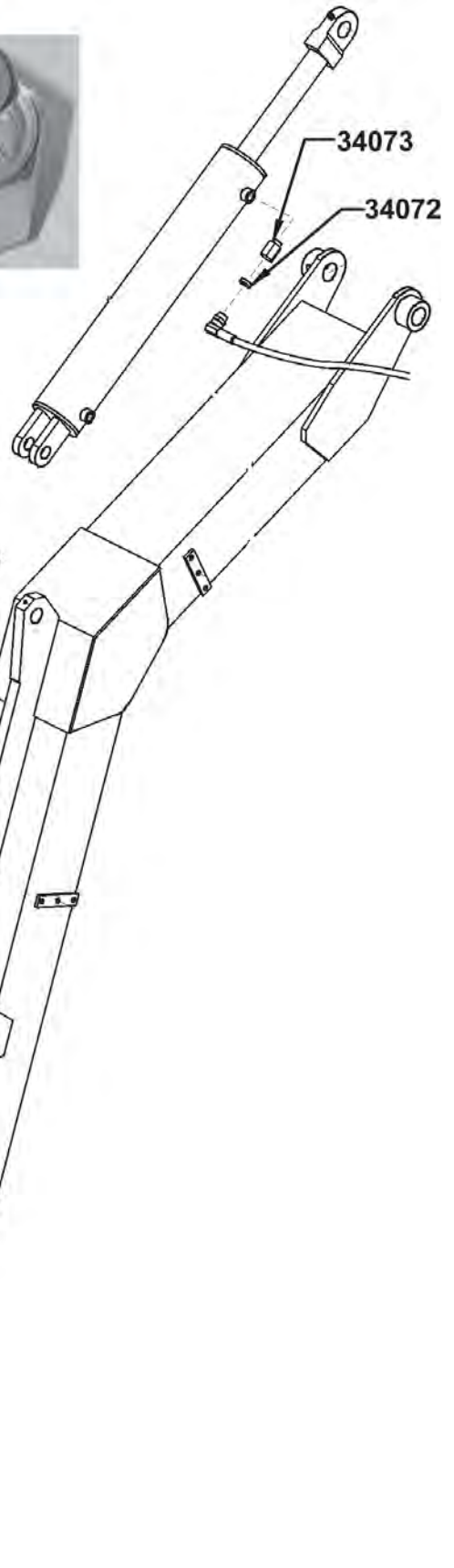
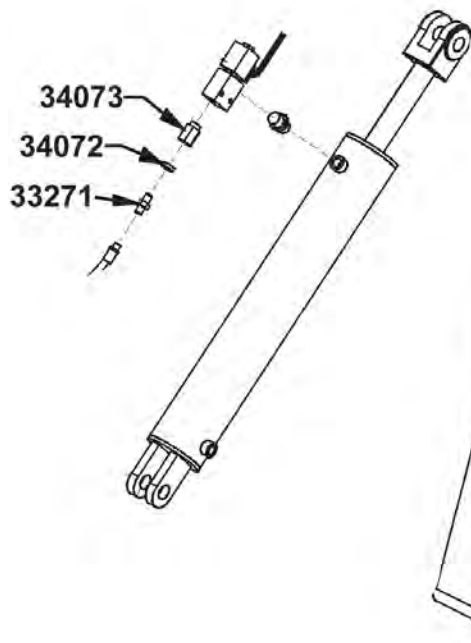
BOOM ARM ASSEMBLY - ATTENTION!

This pertains to Husco controlled boom units that do not use 06502036 check valve adapter . Please note the adapter and restrictor which are added to the main and secondary boom cylinder for proper boom operation.



ASSEMBLY OF RESTRICTORS INTO THE MAIN BOOM & SECONDARY BOOM CYLINDER:

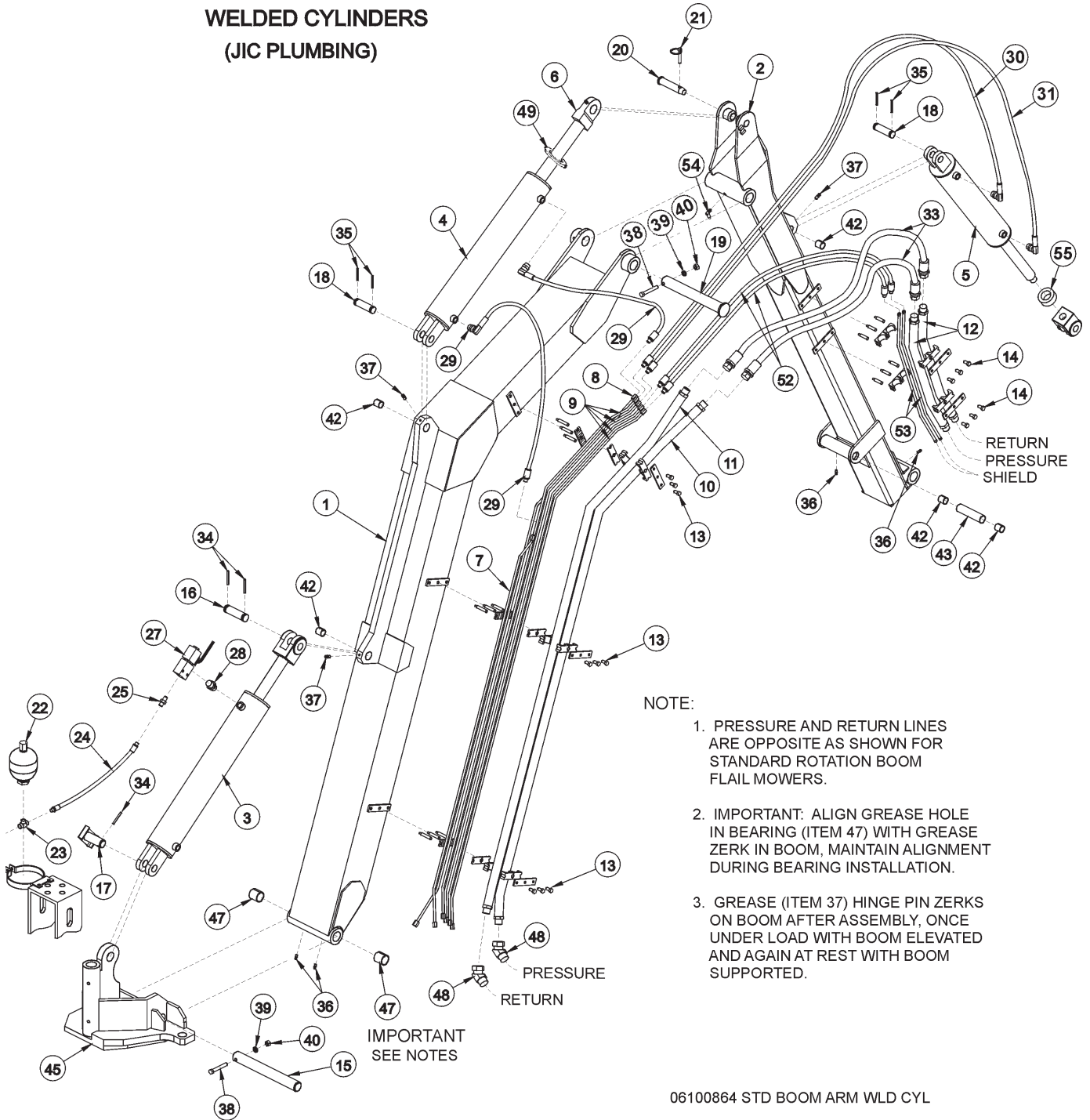
1. ON THE MAIN BOOM CYLINDER, ASSEMBLE ADAPTER 34073 INTO THE TRAVEL LOCK. ASSEMBLE RESTRICTOR 34072 INTO 34073 AS SHOWN ABOVE IN THE ILLUSTRATION, THEN ASSEMBLE ADAPTER 33271 INTO 34073 AND FINALLY ASSEMBLE THE HOSE ON TO 33271.
2. ON THE SECONDARY BOOM CYLINDER, ASSEMBLE 34073 INTO THE GLAND END PORT, THEN ASSEMBLE RESTRICTOR 34072 INTO 34073 AS SHOWN ABOVE IN THE ILLUSTRATION. FINALLY, ASSEMBLE THE HOSE INTO 34073.



BOOM ARM ASSEMBLY - ATTENTION!

BOOM ARM ASSEMBLY - WELDED CYLINDERS

WELDED CYLINDERS (JIC PLUMBING)

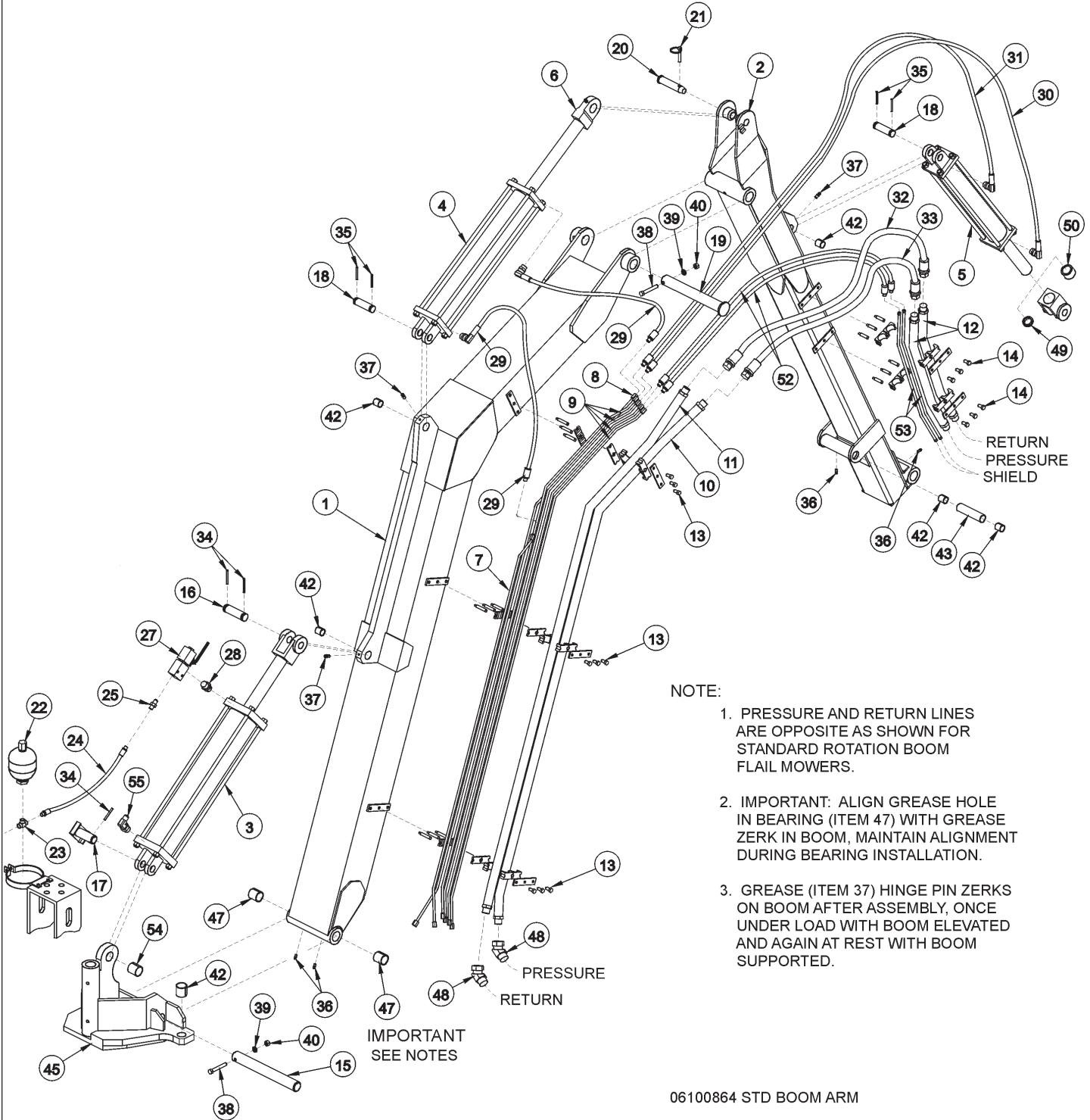


BOOM ARM ASSEMBLY - WELDED CYLINDERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	24512	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	24517	1	SECONDARY BOOM STD WITH BUSHINGS
	TB1001G	1	SECONDARY BOOM STD
	28129B	AVAIL	SECONDARY BOOM SHORT
3	35192	1	CYLINDER 4" X 20"
4	35194	1	CYLINDER 3-1/2" X 20"
5	35193	1	CYLINDER 3" X 18"
6	TB3033	1	CLEVIS W. SPHERICAL BEARING
7	TB2025	1	PREFORMED TUBE #304
8	TB2026	1	PREFORMED TUBE #305
9	TB2028	4	PREFORMED TUBE #307
10	24034A	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	24035A	1	PREFORMED TUBE MAIN BOOM RETURN
12	2403306	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1033D	1	PIN, 1 1/4" X 3 1/2" CYLINDER (DRILLED)
17	TB1045B	1	PIN, CYLINDER/HEAD
18	6T3003D	2	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	34020	1	TEE 3/8" X 3/8" X 1/2"
24	33397	1	HOSE - 1/4" X 55"
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR
27	31328	1	TRAVEL LOCK
28	31329	1	ADAPTER - 1/2OR X 1/2 ADJ OR
29	34052	2	HOSE - 1/4" X 20"
30	34078	1	HOSE - 1/4 X 48"
31	34079	1	HOSE - 1/4" X 68"
33	24488	2	HOSE 1" X 40"
34	6T3014	3	ROLL PIN 1/4" X 2"
35	TB1023	4	ROLL PIN 7/32" X 2"
36	6T3211	4	GREASE ZERK 1/8"
37	6T3207	3	GREASE ZERK 1/4"
38	21688	2	CAPSCREW 7/16" X 3 1/4"
39	21989	2	LOCKWASHER 7/16"
40	21675	2	HEX NUT 7/16"
42	TB3010	5	BUSHING
43	TB1035	1	BUSHING SPACER
44			
45	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
46	35260	1	HOSE COVER 40" (NOT SHOWN)
47	32321	2	BEARING 2"
48	24724	2	ADAPTER
49	22076	1	SPACER (USED ON THE 50" BOOM ROTARY)
52	34104	2	HOSE 1/4" X 42"
53	34102	2	PREFORMED TUBE
54	6T3210	1	GREASE ZERK, 1/8 X 90
55	35312	1	SET COLLAR, 2 PC, 1.38 I.D.

STANDARD BOOM ARM JIC

(JIC PLUMBING)



NOTE:

1. PRESSURE AND RETURN LINES ARE OPPOSITE AS SHOWN FOR STANDARD ROTATION BOOM FLAIL MOWERS.
2. IMPORTANT: ALIGN GREASE HOLE IN BEARING (ITEM 47) WITH GREASE ZERK IN BOOM, MAINTAIN ALIGNMENT DURING BEARING INSTALLATION.
3. GREASE (ITEM 37) HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED AND AGAIN AT REST WITH BOOM SUPPORTED.

IMPORTANT
SEE NOTES

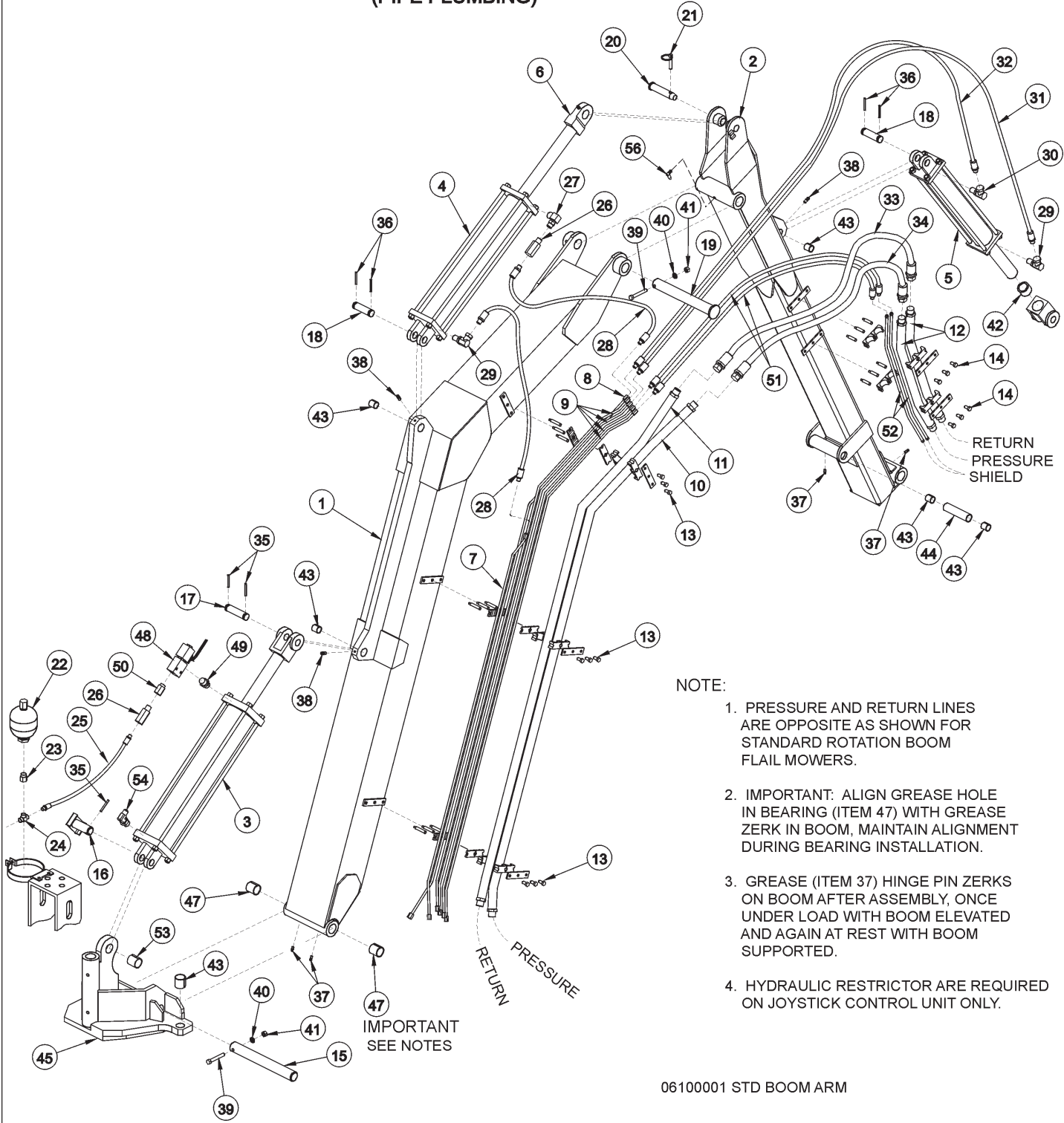
06100864 STD BOOM ARM

STANDARD BOOM ARM JIC

ITEM	PART NO.	QTY.	DESCRIPTION
1	24512	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	TB1001G	1	SECONDARY BOOM STD
2	28129B	AVAIL	SECONDARY BOOM SHORT
3	34086	1	CYLINDER 4" X 20"
4	TB1012	1	CYLINDER 3-1/2" X 20"
5	6T0150	1	CYLINDER 3" X 18"
6	TB3033	1	CLEVIS W. SPHERICAL BEARING
7	TB2025	1	PREFORMED TUBE #304
8	TB2026	1	PREFORMED TUBE #305
9	TB2028	4	PREFORMED TUBE #307
10	24034A	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	24035A	1	PREFORMED TUBE MAIN BOOM RETURN
12	2403306	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1033D	1	PIN, 1 1/4" X 3 1/2" CYLINDER (DRILLED)
17	TB1045B	1	PIN, CYLINDER/HEAD
18	6T3003D	2	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	34020	1	TEE 3/8" X 3/8" X 1/2"
24	33397	1	HOSE - 1/4" X 55"
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR
27	31328	1	TRAVEL LOCK
28	31329	1	ADAPTER - 1/2OR X 1/2 ADJ OR
29	34052	2	HOSE - 1/4" X 20"
30	34078	1	HOSE - 1/4 X 48"
31	34079	1	HOSE - 1/4" X 68"
33	24488	2	HOSE 1" X 40"
34	6T3014	3	ROLL PIN 1/4" X 2"
35	TB1023	4	ROLL PIN 7/32" X 2"
36	6T3211	4	GREASE ZERK 1/8"
37	6T3207	3	GREASE ZERK 1/4"
38	21688	2	CAPSCREW 7/16" X 3 1/4"
39	21989	2	LOCKWASHER 7/16"
40	21675	2	HEX NUT 7/16"
42	TB3010	4	BUSHING
43	TB1035	1	BUSHING SPACER
44			
45	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
46	6T3199	1	HOSE COVER 40" (NOT SHOWN)
47	32321	2	BEARING 2"
48	24724	2	ADAPTER
49	22076	1	SPACER (USED ON THE 50" BOOM ROTARY)
50	23162	1	SPACER(USED ON FLAIL HEADS AND 60" ROTARY)
52	34104	2	HOSE 1/4" X 42"
53	34102	2	PREFORMED TUBE
54	33466	1	BUSHING
55	33271	1	ELBOW 1/2MOR x 3/8MJ
56	6T3210	1	GREASE ZERK, 1/8 X 90

STANDARD BOOM ARM PIPE

(PIPE PLUMBING)

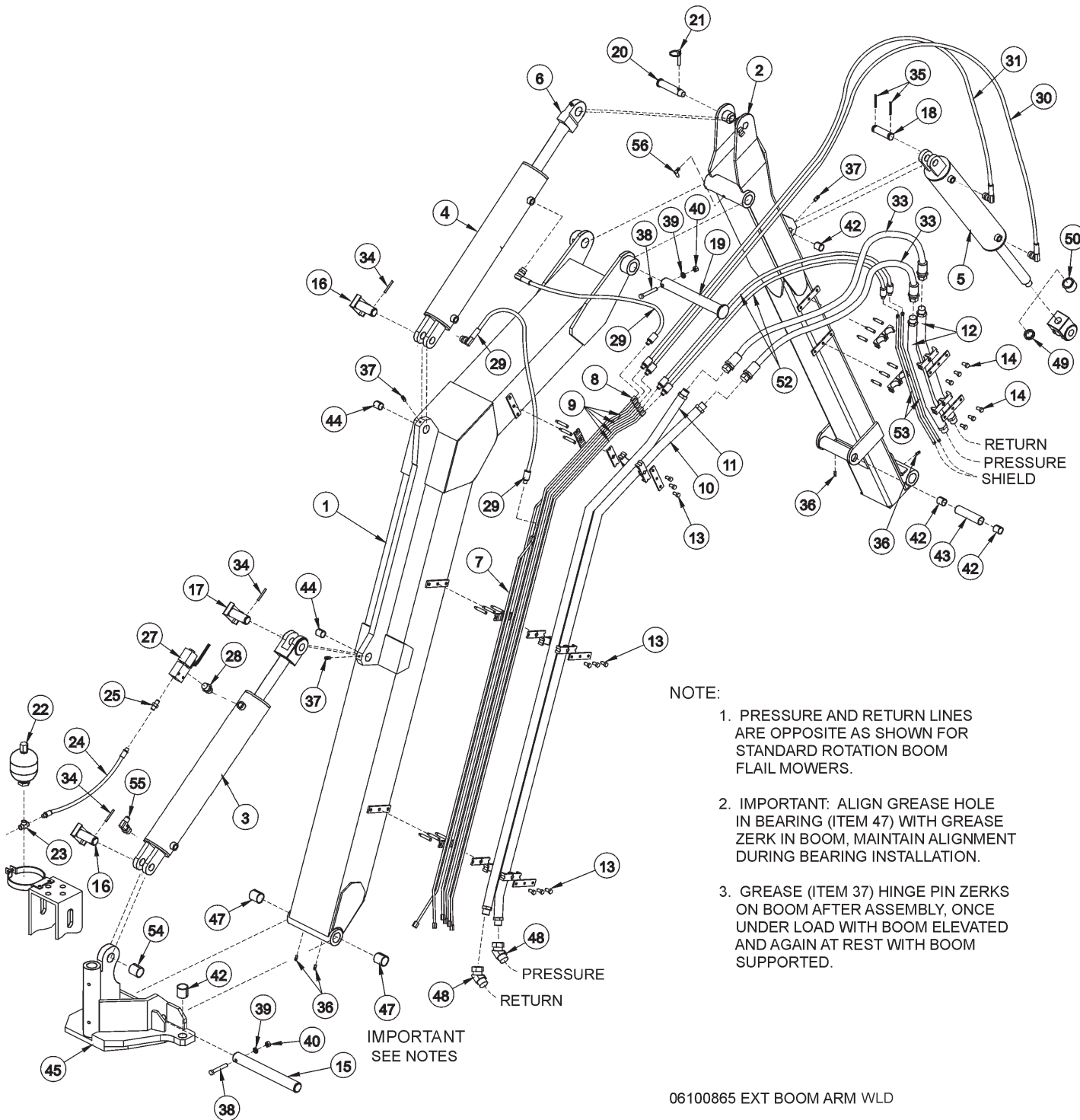


STANDARD BOOM ARM PIPE

ITEM	PART NO.	QTY.	DESCRIPTION
1	24512	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	TB1001G	1	SECONDARY BOOM
3	TB1015	1	CYLINDER 4" X 20"
4	TB1012	1	CYLINDER 3 1/2" X 20"
5	6T0150	1	CYLINDER 3" X 18"
6	TB3033	1	CLEVIS W. SPHERICAL BEARING
7	TB2025	1	PREFORMED TUBE #304
8	TB2026	1	PREFORMED TUBE #305
9	TB2028	4	PREFORMED TUBE #307
10	24034A	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	24035A	1	PREFORMED TUBE MAIN BOOM RETURN
12	2403306	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1045B	1	PIN, CYLINDER/HEAD
17	TB1033D	1	PIN, 1 1/4" X 4" CYLINDER (DRILLED)
18	6T3003D	2	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	6T4234	1	ADAPTER 1/2" X 1/4"
24	30054	1	TEE 1/4" X 1/4" X 1/4"
25	TB2035	1	HOSE 1/4" X 55"
26	TB1050	2	RESTRICTOR
27	6T0157	1	FITTING 1/2" X 1/2"
28	TB2006	2	HOSE 1/4" X 20"
29	6T0158	2	SWIVEL 1/2" X 1/2"
30	6T0159	1	SWIVEL 1/2" X 1/2"
31	TB2036	1	HOSE 1/4" X 48"
32	TB2008	1	HOSE 1/4" X 68"
33	24488	1	HOSE 1" X 40"
34	24487	1	HOSE 1" X 39"
35	6T3014	3	ROLL PIN 1/4" X 2"
36	TB1023	4	ROLL PIN 7/32" X 2"
37	6T3211	4	GREASE ZERK 1/8"
38	6T3207	3	GREASE ZERK 1/4"
39	21688	2	CAPSCREW 7/16" X 3 1/4"
40	21989	2	LOCKWASHER 7/16"
41	21675	2	HEX NUT 7/16"
42	23162	1	SPACER (USE ON 60" ROTARY AND ALL FLAIL HEADS)
43	TB3010	6	BUSHING
44	TB1035	1	BUSHING SPACER
45	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
46	6T3199	1	HOSE COVER 40" (NOT SHOWN)
47	32321	2	BEARING 2"
48	31328	1	TRAVEL LOCK
49	31329	1	ADAPTER 1/2"
50	6T4224	1	ADAPTER 1/2" X 1/2"
51	34104	2	HOSE 1/4" x 42"
52	34102	2	PREFORMED TUBE
53	33466	1	BUSHING
54	33399	1	ELBOW 1/2MP x 3/8FJ90
56	6T3210	1	GREASE ZERK, 1/8 X 90

EXTENDED BOOM ARM ASSY JIC WELDED

WELDED CYLINDER (JIC PLUMBING)

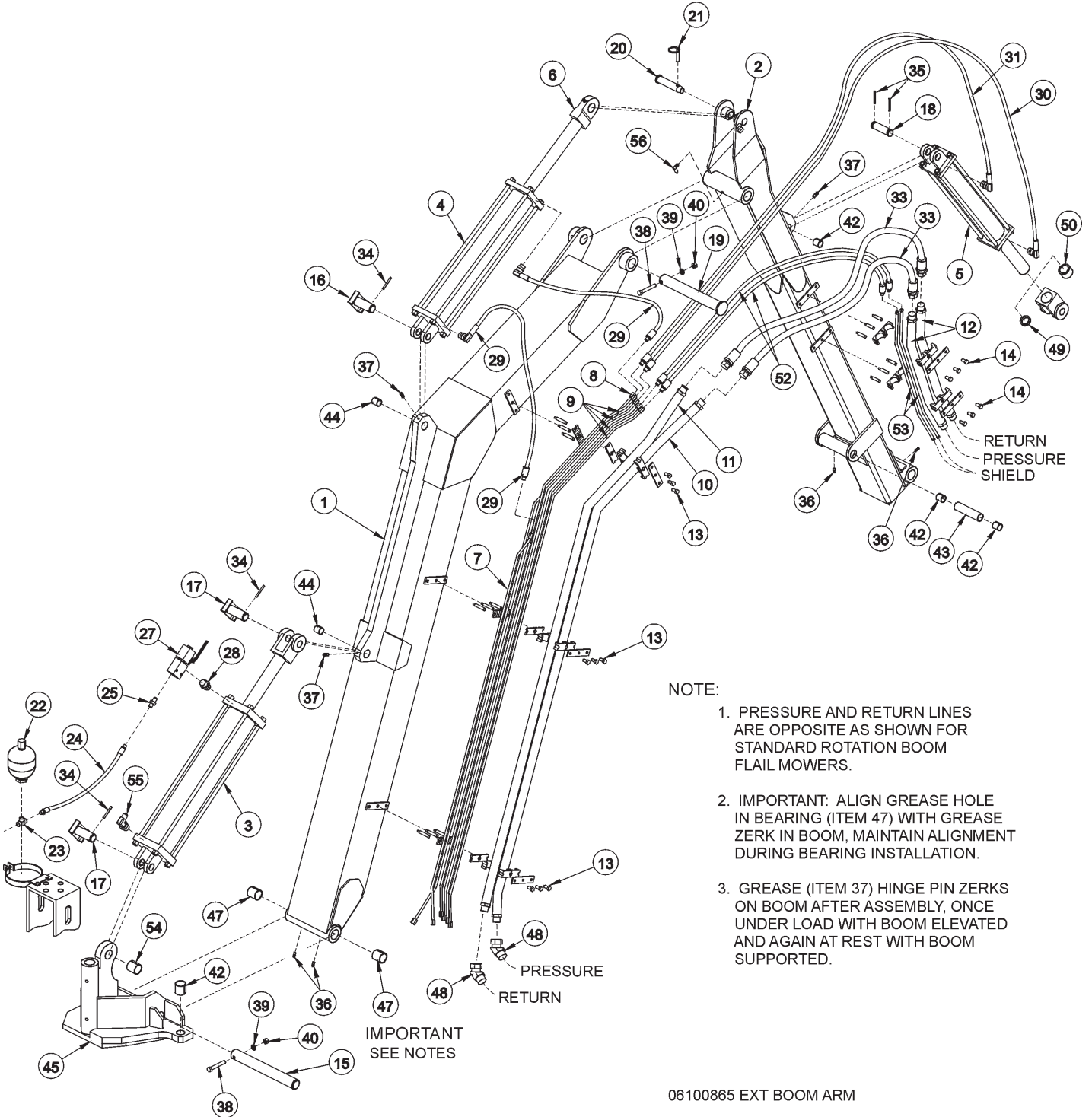


EXTENDED BOOM ARM ASSY JIC WELDED

ITEM	PART NO.	QTY.	DESCRIPTION
1	31845	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	30072C	1	SECONDARY BOOM
3	33196	1	CYLINDER 5" X 20" WELDED
4	35192	1	CYLINDER 4" X 20" WELDED
5	35193	1	CYLINDER 3" X 18" WELDED
6	30172	1	CLEVIS W. SPHERICAL BEARING
7	31234	1	PREFORMED TUBE #304
8	31235	1	PREFORMED TUBE #305
9	31233	4	PREFORMED TUBE #307
10	30167	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	30168	1	PREFORMED TUBE MAIN BOOM RETURN
12	30169	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1045B	2	PIN, CYLINDER/HEAD
17	30165A	1	PIN, 1 1/4" X 3 1/2" CYLINDER (DRILLED)
18	6T3003D	1	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	34020	1	TEE 3/8" X 3/8" X 1/2"
24	33397	1	HOSE - 1/4" X 55"
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR
27	31328	1	TRAVEL LOCK
28	31329	1	ADAPTER - 1/2OR X 1/2 ADJ OR
29	34052	2	HOSE - 1/4" X 20"
30	34050	1	HOSE - 1/4 X 83"
31	34051	1	HOSE - 1/4" X 63"
33	24488	2	HOSE 1" X 40"
34	6T3014	3	ROLL PIN 1/4" X 2"
35	TB1023	2	ROLL PIN 7/32" X 2"
36	6T3211	4	GREASE ZERK 1/8"
37	6T3207	3	GREASE ZERK 1/4"
38	21688	2	CAPSCREW 7/16" X 3 1/4"
39	21989	2	LOCKWASHER 7/16"
40	21675	2	HEX NUT 7/16"
42	TB3010	4	BUSHING
43	TB1035	1	BUSHING SPACER
44	TB1044	2	BUSHING 1 1/4"
45	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
46	6T3199	1	HOSE COVER 40" (NOT SHOWN)
47	32321	2	BEARING 2"
48	24724	2	ADAPTER
49	22076	1	SPACER (USED ON THE 50" BOOM ROTARY)
50	23162	2	SPACER(USED ON FLAIL HEADS AND 60" ROTARY)
52	34104	2	HOSE 1/4" X 42"
53	34103	2	PREFORMED TUBE, 5/16" - SECONDARY BOOM
54	33466	1	BUSHING
55	33271	1	ELBOW 1/2MOR x 3/8MJ
56	6T3210	1	GREASE ZERK, 1/8 X 90

EXTENDED BOOM ARM ASSY JIC

(JIC PLUMBING)

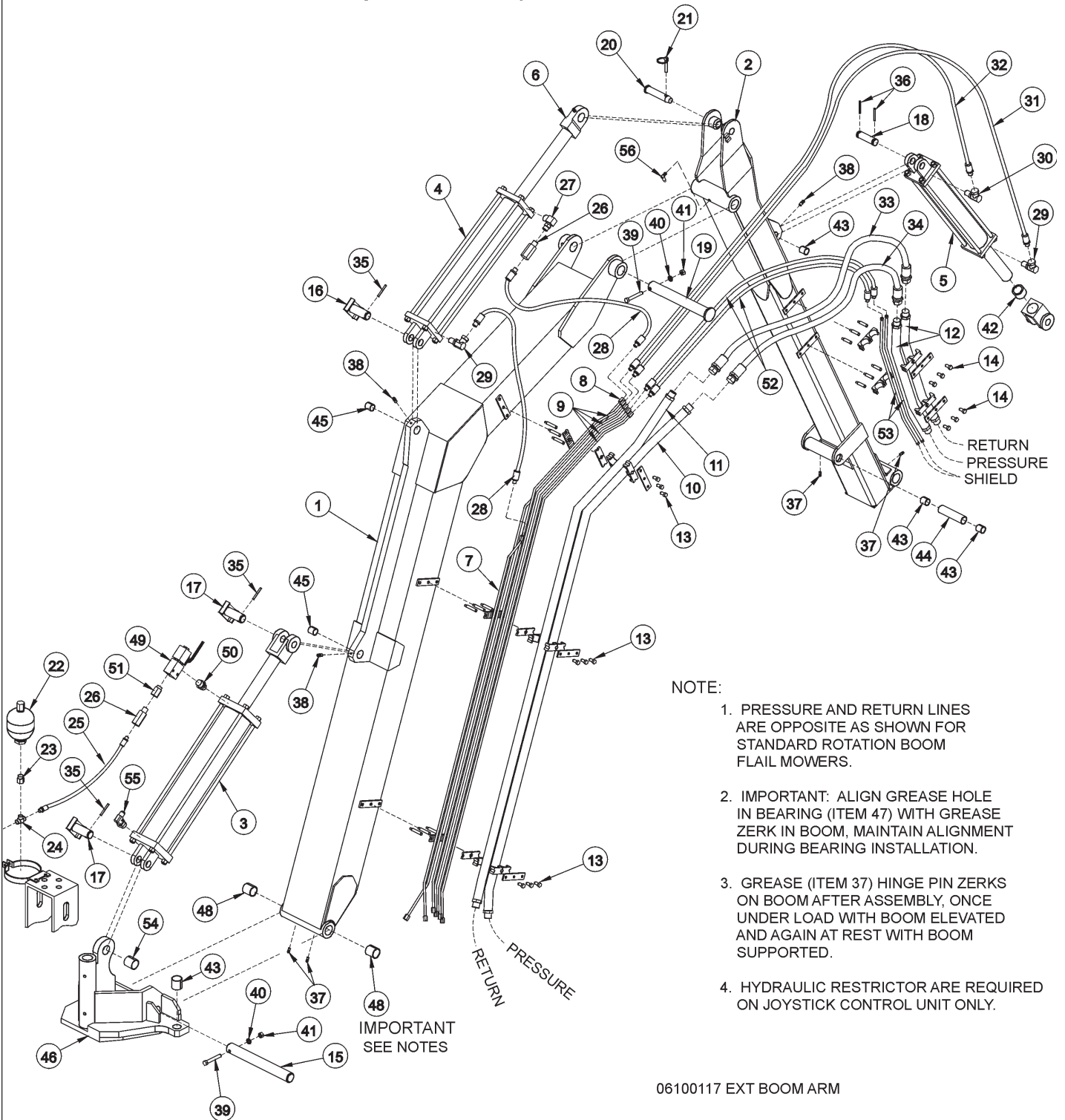


EXTENDED BOOM ARM ASSY JIC

ITEM	PART NO.	QTY.	DESCRIPTION
1	31845	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	30072C	1	SECONDARY BOOM
3	34087	1	CYLINDER 5" X 20"
4	34086	1	CYLINDER 4" X 20"
5	6T0150	1	CYLINDER 3" X 18"
6	30172	1	CLEVIS W. SPHERICAL BEARING
7	31234	1	PREFORMED TUBE #304
8	31235	1	PREFORMED TUBE #305
9	31233	4	PREFORMED TUBE #307
10	30167	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	30168	1	PREFORMED TUBE MAIN BOOM RETURN
12	30169	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1045B	1	PIN, CYLINDER/HEAD
17	30165A	2	PIN, 1 1/4" X 3 1/2" CYLINDER (DRILLED)
18	6T3003D	1	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	34020	1	TEE 3/8" X 3/8" X 1/2"
24	33397	1	HOSE - 1/4" X 55"
25	33271	1	ADAPTER - 1/2MJ X 1/2MOR
27	31328	1	TRAVEL LOCK
28	31329	1	ADAPTER - 1/2OR X 1/2 ADJ OR
29	34052	2	HOSE - 1/4" X 20"
30	34050	1	HOSE - 1/4 X 83"
31	34051	1	HOSE - 1/4" X 63"
33	24488	2	HOSE 1" X 40"
34	6T3014	3	ROLL PIN 1/4" X 2"
35	TB1023	2	ROLL PIN 7/32" X 2"
36	6T3211	4	GREASE ZERK 1/8"
37	6T3207	3	GREASE ZERK 1/4"
38	21688	2	CAPSCREW 7/16" X 3 1/4"
39	21989	2	LOCKWASHER 7/16"
40	21675	2	HEX NUT 7/16"
42	TB3010	4	BUSHING
43	TB1035	1	BUSHING SPACER
44	TB1044	2	BUSHING 1 1/4"
45	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
46	6T3199	1	HOSE COVER 40" (NOT SHOWN)
47	32321	2	BEARING 2"
48	24724	2	ADAPTER
49	22076	1	SPACER (USED ON THE 50" BOOM ROTARY)
50	23162	1	SPACER(USED ON FLAIL HEADS AND 60" ROTARY)
52	34104	2	HOSE 1/4" X 42"
53	34103	2	PREFORMED TUBE, 5/16" - SECONDARY BOOM
54	33466	1	BUSHING
55	33271	1	ELBOW 1/2MOR x 3/8MJ
56	6T3210	1	GREASE ZERK, 1/8 X 90

EXTENDED BOOM ARM ASSY PIPE

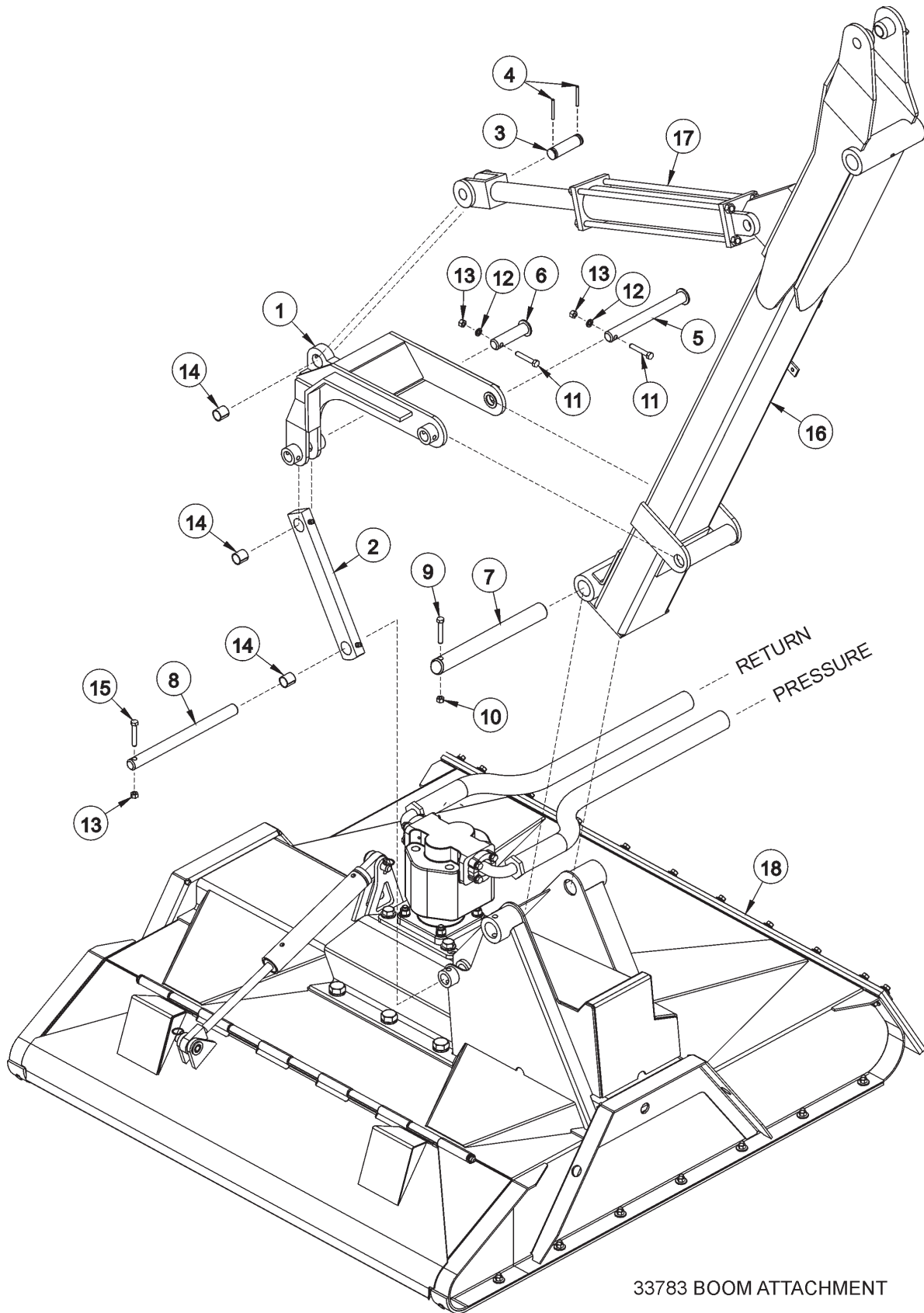
(PIPE PLUMBING)



EXTENDED BOOM ARM ASSY PIPE

ITEM	PART NO.	QTY.	DESCRIPTION
1	31845	1	MAIN BOOM WITH BUMPER PAD / BEARING
	TB1080	1	BUMPER PAD (NOT SHOWN)
	6T3954	4	POP RIVET 3/16" X 3/4" (NOT SHOWN)
2	30072C	1	SECONDARY BOOM
3	30166	1	CYLINDER 5" X 20"
4	TB1015	1	CYLINDER 4" X 20"
5	6T0150	1	CYLINDER 3" X 18"
6	30172	1	CLEVIS W. SPHERICAL BEARING
7	31234	1	PREFORMED TUBE #304
8	31235	1	PREFORMED TUBE #305
9	31233	4	PREFORMED TUBE #307
10	30167	1	PREFORMED TUBE MAIN BOOM PRESSURE
11	30168	1	PREFORMED TUBE MAIN BOOM RETURN
12	30169	2	PREFORMED TUBE
13	33215	3	TUBE CLAMP, MAIN BOOM
14	30111	2	TUBE CLAMP, SECONDARY BOOM
15	TB3013C	1	PIN, SWIVEL
16	TB1045B	1	PIN, CYLINDER/HEAD
17	30165A	2	PIN, 1 1/4" X 3 1/2" CYLINDER (DRILLED)
18	6T3003D	1	PIN, 1" X 3 1/2" CYLINDER (DRILLED)
19	TB1025	1	PIN, 1 1/2" X 12" BOOM PIVOT
20	TB1036	1	PIN, 1" X 4 11/16" CYLINDER
21	TF1143	1	LYNCH PIN, CYLINDER
22	24300	1	ACCUMULATOR
23	6T4234	1	ADAPTER 1/2" X 1/4"
24	30054	1	TEE 1/4" X 1/4" X 1/4"
25	TB2035	1	HOSE 1/4" X
26	TB1050	2	RESTRICTOR
27	6T0157	1	FITTING 1/2" X 1/2"
28	TB2006	2	HOSE 1/4" X 20"
29	6T0158	2	SWIVEL 1/2" X 1/2"
30	6T0159	1	SWIVEL 1/2" X 1/2"
31	31155	1	HOSE 1/4" X 63"
32	30268	1	HOSE 1/4" X 83"
33	24488	1	HOSE 1" X 40"
34	24487	1	HOSE 1" X 39"
35	6T3014	3	ROLL PIN 1/4" X 2"
36	TB1023	2	ROLL PIN 7/32" X 2"
37	6T3211	4	GREASE ZERK 1/8"
38	6T3207	3	GREASE ZERK 1/4"
39	21688	2	CAPSCREW 7/16" X 3 1/4"
40	21989	2	LOCKWASHER 7/16"
41	21675	2	HEX NUT 7/16"
42	23162	1	SPACER (USE ON 60" ROTARY AND ALL FLAIL HEADS)
43	TB3010	4	BUSHING
44	TB1035	1	BUSHING SPACER
45	TB1044	2	BUSHING 1 1/4"
46	*	REF	SWIVEL REFER TO MAIN FRAME PARTS
47	6T3199	1	HOSE COVER 40" (NOT SHOWN)
48	32321	2	BEARING 2"
49	31328	1	TRAVEL LOCK
50	31611	1	ADAPTER 5/8"
51	6T4224	1	ADAPTER 1/2" X 1/2"
52	34104	2	HOSE 1/4" X 42"
53	34103	2	PREFORMED TUBE
54	33466	1	BUSHING
55	33399	1	ELBOW 1/2MP x 3/8FJ90
56	6T3210	1	GREASE ZERK, 1/8 X 90

BOOM ROTARY PIVOT ASSY



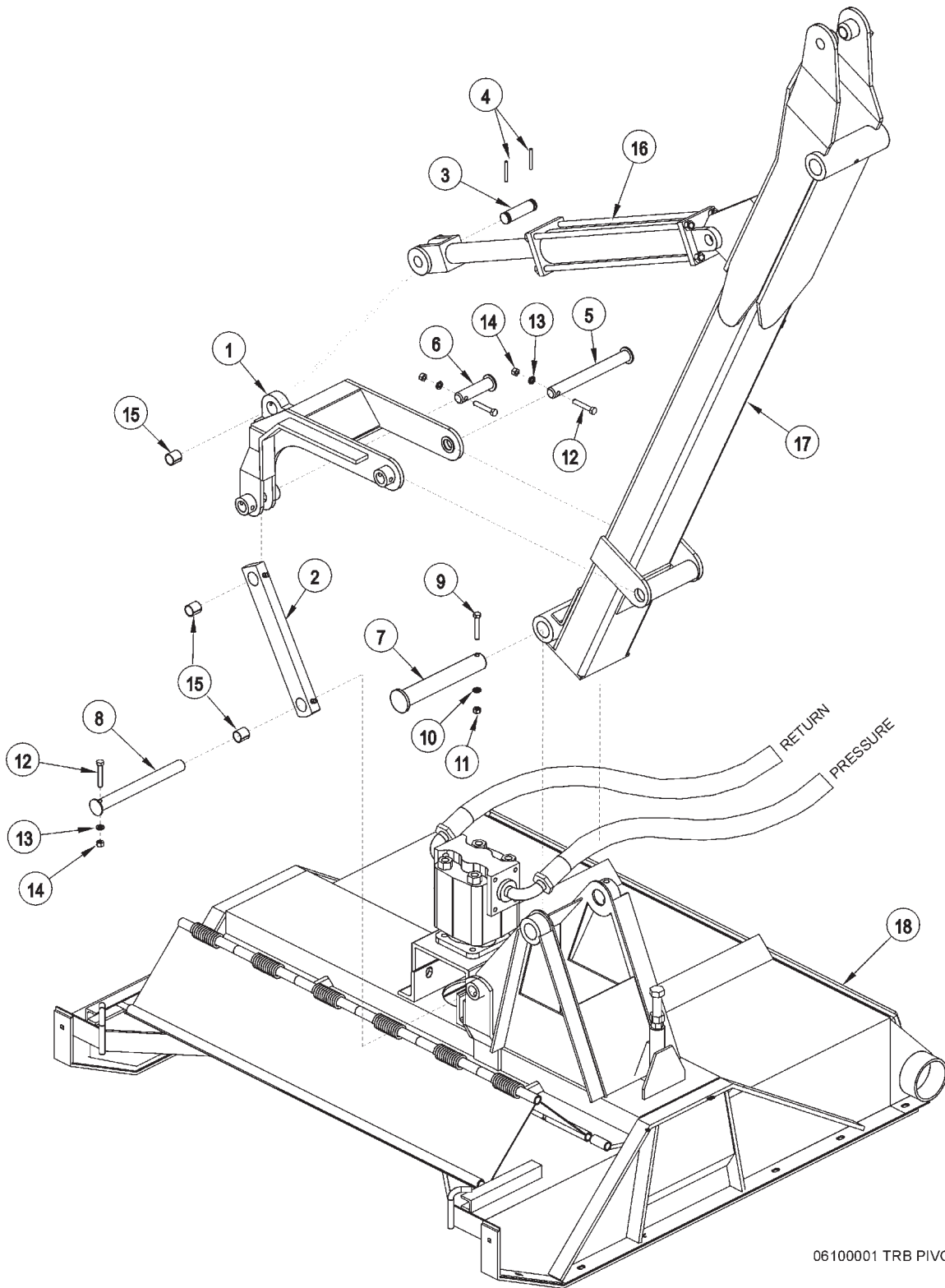
33783 BOOM ATTACHMENT

BOOM ROTARY PIVOT ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	PIVOT ASY
2	TB1028	1	PIVOT ARM WITH BUSHINGS AND ZERKS
3	6T3003D	1	PIN, CLEVIS
4	TB1023	4	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	33985	1	PIN
8	33986	1	PIN
9	21686	1	CAPSCREW 7/16" X 2-3/4", NC
10	21675	1	HEX NUT, 7/16", NC
11	21635	2	CAPSCREW 3/8" X 2 1/4"
12	21988	2	LOCKWASHER 3/8"
13	21625	3	HEX NUT 3/8"
14	TB3010	3	BUSHING
15	21634	1	CAPSCREW, 3/8" X 2", NC
16	*	REF.	SECONDARY BOOM - REFER TO BOOM ARM ASSY
17	*	REF.	CYLINDER - REFER TO BOOM ARM ASSY
18	*	REF.	ROTARY MOWER HEAD - REFER TO ROTARY DECK

BOOM ROTARY PIVOT ASSY

OLD STYLE 50" BOOM ROTARY PIVOT ASSY

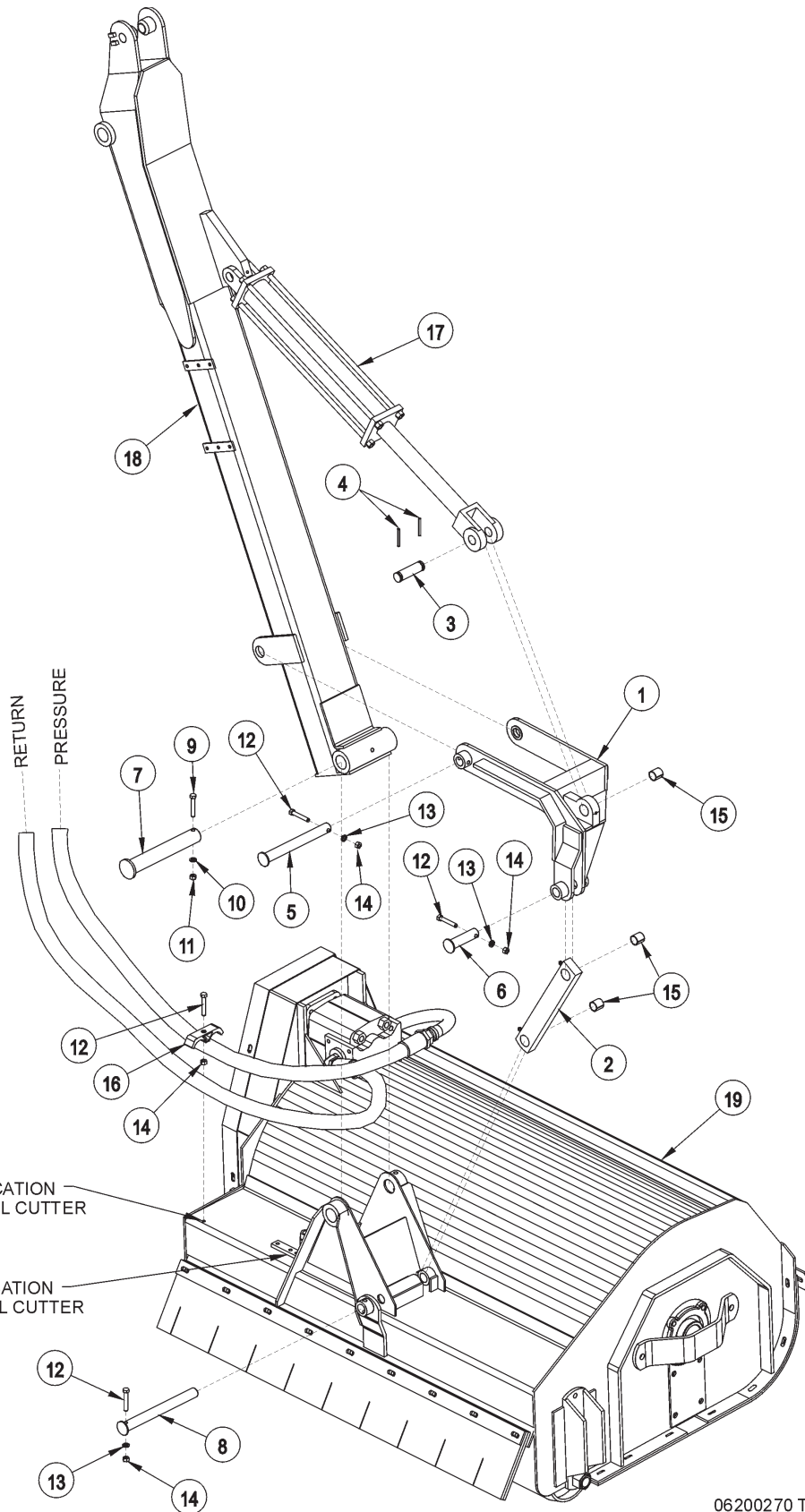


06100001 TRB PIVOT

BOOM ROTARY PIVOT ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	PIVOT ASY
2	TB1028	1	PIVOT ARM WITH BUSHINGS AND ZERKS
3	6T3003D	1	PIN, CLEVIS
4	TB1023	2	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	TB1024	1	PIN
8	TB1027	1	PIN
9	21688	1	CAPSCREW 7/16" X 3 1/4"
10	21989	1	LOCKWASHER 7/16"
11	21675	1	HEX NUT 7/16"
12	21635	3	CAPSCREW 3/8" X 2 1/4"
13	21988	3	LOCKWASHER 3/8"
14	21625	3	HEX NUT 3/8"
15	TB3010	3	BUSHING
16	*	REF.	CYLINDER - REFER TO BOOM ARM ASY
17	*	REF.	SECONDARY BOOM - REFER TO BOOM ARM ASY
18	*	REF.	ROTARY MOWER HEAD - REFER TO ROTARY DECK

BOOM FLAIL PIVOT / HEAD ASSY



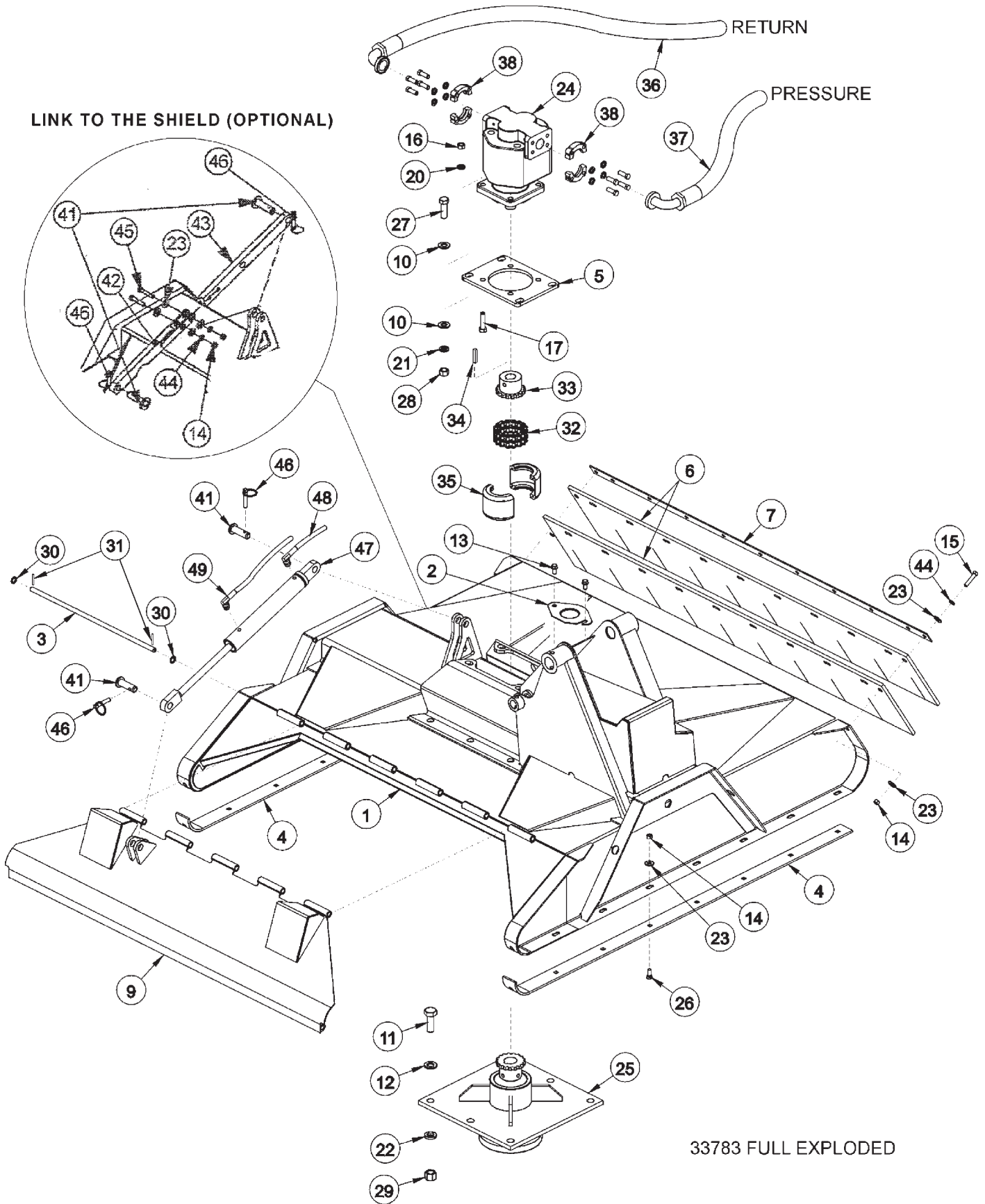
06200270 TBF PIVOT

BOOM FLAIL PIVOT / HEAD ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	TF3015	1	PIVOT ASY
2	TB1028	1	PIVOT ARM WITH BUSHINGS AND ZERKS
3	6T3003D	1	PIN CLEVIS
4	TB1023	2	ROLL PIN
5	TF3097	1	PIN
6	TF3090	1	PIN
7	TB1024	1	PIN
8	TB1027	1	PIN
9	31688	1	CAPSCREW 7/16" X 3 1/4"
10	21989	1	LOCKWASHER 7/16"
11	21675	1	HEX NUT 7/16"
12	21635	4	CAPSCREW 3/8" X 2 1/4"
13	21988	3	LOCKWASHER 3/8"
14	21625	4	HEX NUT 3/8"
15	TB1030	3	BUSHING
16	TB3031	1	DOUBLE HOSE CLAMP (USED ON THE 63" FLAIL)
16	31723	1	CLAMP KIT, TBF 50 (USED ON THE 50" FLAIL)
**	21679	4	CAPSCREW, 7/16" x 1" NC
**	31916	4	POST, CLAMP, HOSE, 3000 PSI, FLAIL, BOOM
**	31917	4	CUSHION, CLAMP, HOSE, 3000 PSI, FLAIL, BOOM
**	31955	1	PLATE, TOP, CLAMP, TBF
17	*	REF.	CYLINDER - REFER TO BOOM ARM ASY
18	*	REF.	SECONDARY BOOM - REFER TO BOOM ARM ASY
19	*	REF.	FLAIL MOWER HEAD - REFER TO ROTARY DECK ASY

50" BOOM ROTARY MOWER DESK ASSY

LINK TO THE SHIELD (OPTIONAL)



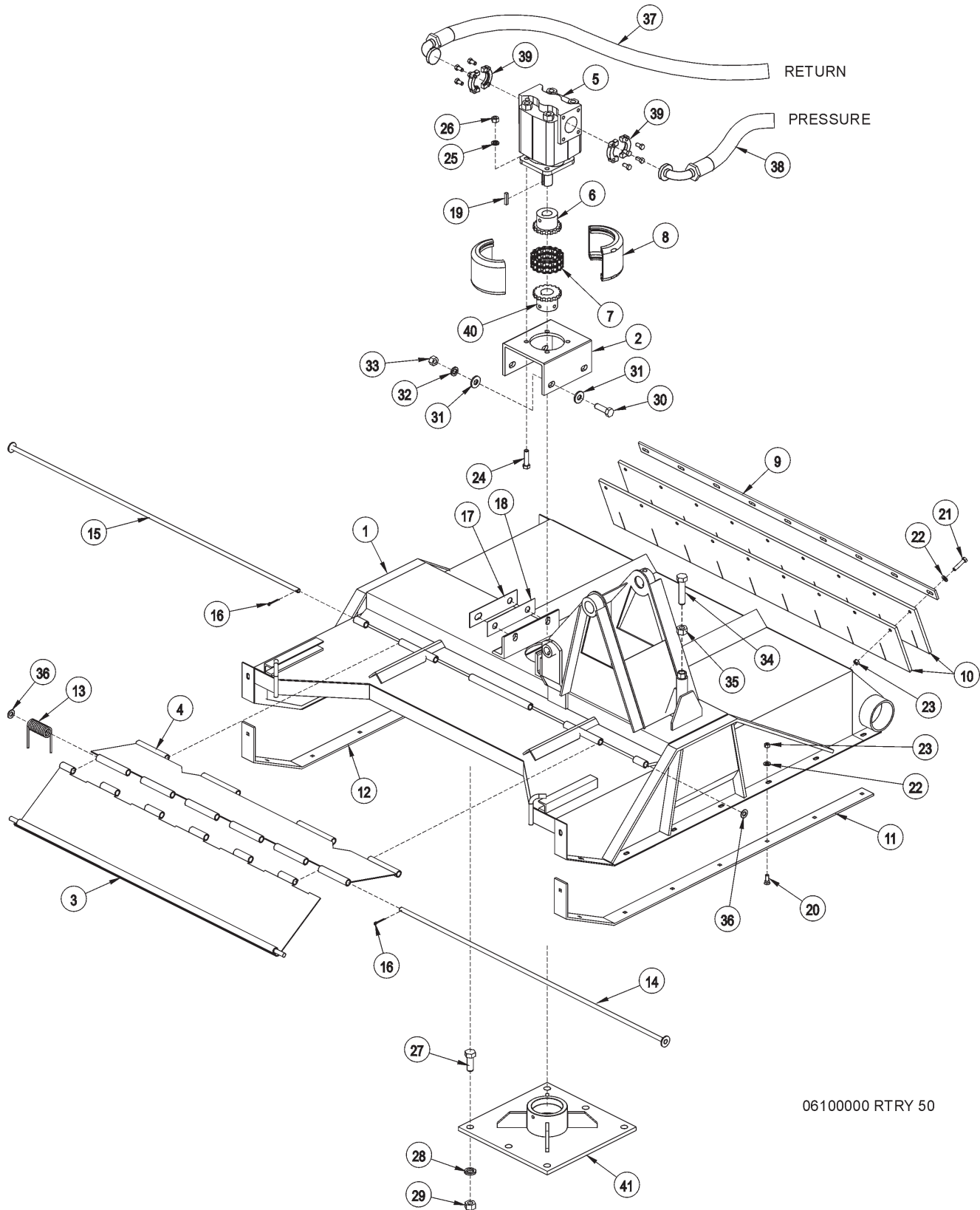
33783 FULL EXPLODED

50" BOOM ROTARY MOWER DECK ASSY

ITEM	P/N	QTY	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33779	1	PLATE,COVER,KNF HOLE
3	33778	1	HINGE PIN,50" RTRY
4	33777	2	SKID SHOE,50" RTRY
5	33776	1	MOTOR MOUNT,PLATE,50" RTRY
6	33775	2	FLAP,50" RTRY
7	33774	1	FLAP RETAINER,50" RTRY
9	33754	1	SHIELD,50"RTRY
10	33764	8	FLATWASHER,5/8",GR 8,SAE
11	33879	6	CAPSCREW, 3/4 x 2 1/4,NF GR 8
12	33880	6	FLATWASHER,3/4",GR 8,SAE
13	33881	2	CAPSCREW,FLG, 3/8 x 3/4,NC
14	21625	20	HEX NUT,3/8",NC
15	21633	11	CAPSCREW, 3/8 x 1 3/4,NC
16	21725	4	HEX NUT, 1/2" NC
17	21733	4	CAPSCREW, 1/2 x 2,NC
20	21990	4	LOCKWASHER, 1/2"
21	21992	4	LOCKWASHER, 5/8
22	21993	6	LOCKWASHER,3/4",GR 8
23	22016	33	FLATWASHER,3/8"
24	06504012	1	CURRENT MOTOR,(M365-1 3/4" GEAR)
	23173	1	ORIGINAL MOTOR,(M365-1 3/4" GEAR)
25	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
26	6t2270	16	PLOW BOLT,3/8" X 1" NC
27	6T2290	4	CAPSCREW,5/8x2,NF GR 8
28	6T2408	4	HEX NUT, 5/8, NF
29	6T2413	6	HEX NUT,3/4,NF,GR 8
30	33924	2	RETAINING RING,EXTERNAL,1/2"
31	6T3017	2	ROLLPIN
32	6T1029	1	COUPLER CHAIN
33	21223	1	SPROCKET
34	TF1124	1	SQUARE KEY
35	6T1033	1	COUPLER COVER WITH HARDWARE AND SEALS
36	24489	1	HOSE - RETURN
37	24490	1	HOSE - PRESSURE
38	TF4852	2	FLANGE KIT - #20
41	33984	2	PIN,SHIELD,50"
42	33773	1	LINK 2, SHIELD 50" RTRY (OPTIONAL)
43	33772	1	LINK, SHIELD 50" RTRY (OPTIONAL)
44	21988	11	LOCKWASHER, 3/8"
45	21634	2	CAPSCREW, 3/8" x 2, NC
46	RD1032	2	LYNCH PIN
47	33785	1	1-1/2" X 8", CYLINDER, WELDED
48	34186	1	HOSE 1/4" X 66"
49	34187	1	HOSE 1/4" X 75"

50" BOOM ROTARY MOWER DESK ASSY

OLD STYLE 50" BOOM ROTARY

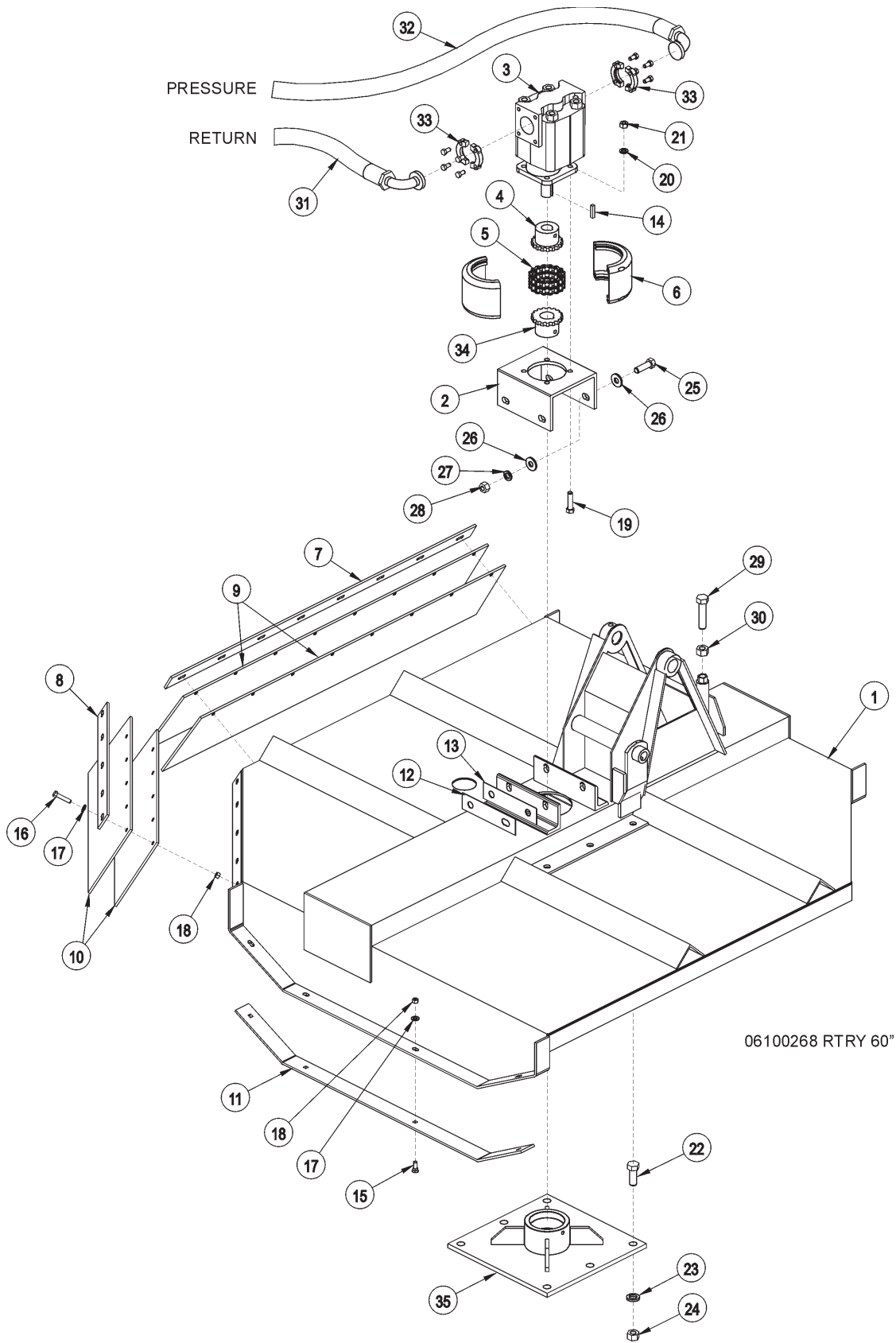


0610000 RTRY 50

50" BOOM ROTARY MOWER DECK ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1003	1	50" MOWER DECK
2	6T1001	1	MOTOR BRACKET
3	24491	1	FRONT SHIELD
4	24492	1	REAR SHIELD
5	06504012	1	CURRENT MOTOR,(M365-1 3/4" GEAR)
	23173	1	ORIGINAL MOTOR,(M365-1 3/4" GEAR)
6	21223	1	SPROCKET
7	6T1029	1	COUPLER CHAIN
8	6T1033	1	COUPER COVER WITH HARDWARE AND SEALS
9	TB1008	1	REAR FLAP RETAINING BAR
10	TB1006A	2	DEFLECTOR FLAP
11	TB1005	1	SKID SHOE - LEFT
12	TB1004	1	SKID SHOE - RIGHT
13	24346	6	TORSION SPRING
14	TB3019	1	TRAP DOOR ROD
15	TB3023	1	TRAP DOOR MOUNTING ROD
16	22516	2	COTTER PIN
17	6T0822	3	MOTOR MOUNT SHIM - AS REQUIRED
18	6T0822A	2	MOTOR MOUNT SHIM - AS REQUIRED
19	TF1124	1	SQUARE KEY
20	6T2270	16	PLOW BOLT
21	21633	9	CAPSCREW 3/8" X 1 3/4"
22	22016	25	FLATWASHER 3/8"
23	21625	25	HEX NUT 3/8"
24	21733	4	CAPSCREW 1/2" X 2"
25	21990	4	LOCKWASHER 1/2"
26	21725	4	HEX NUT 1/2"
27	6T2277	6	CAPSCREW 3/4" X 2" NF
28	21993	3	LOCKWASHER 3/4"
29	6T2413	6	HEX NUT 3/4"
30	21783	4	CAPSCREW 5/8" X 2"
31	25270	8	FLATWASHER 5/8"
32	21992	4	LOCKWASHER 5/8"
33	21775	4	HEX NUT 5/8"
34	21837	1	CAPSCREW 3/4" X 3 1/4"
35	21825	1	HEX NUT 3/4"
36	22018	2	FLATWASHER 1/2"
37	24489	1	HOSE - RETURN
38	24490	1	HOSE - PRESSURE
39	TF4852	2	FLANGEE KIT
40	*	REF.	SPROCKET - REFER TO SPINDLE ASY
41	*	REF.	SPINDLE HOUSING - REFER TO SPINDLE ASY

60" BOOM ROTARY MOWER DECK ASSY

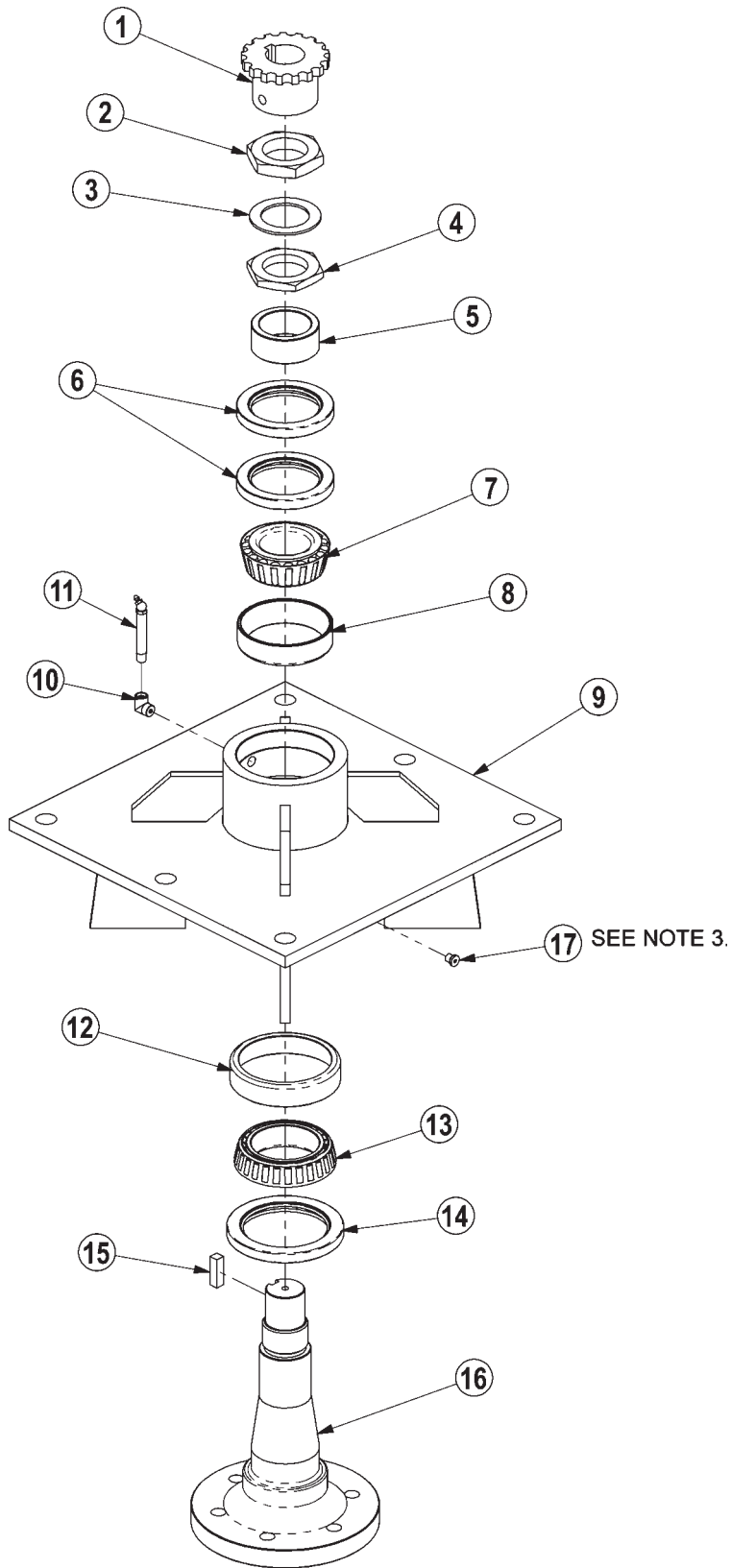


06100268 RTRY 60"

60" BOOM ROTARY MOWER DECK ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	27575	1	60" MOWER DECK
2	6T1001	1	MOTOR BRACKET
3	06504011	1	CURRENT MOTOR,(M365-2 1/4" GEAR)
	23172	1	ORIGINAL MOTOR,(M365-2 1/4" GEAR)
4	21223	1	SPROCKET
5	6T1029	1	COUPLER CHAIN
6	6T1033	1	COUPLER COVER WITH HARDWARE AND SEALS
7	TB1108	1	REAR FLAP RETAINING BAR - LARGE
8	TB1107	1	REAR FLAP RETAINING BAR - SMALL
9	TB1106	2	DEFLECTOR FLAP - LARGE
10	TB1105	2	DEFLECTOR FLAP - SMALL
11	TB1104A	2	SKID SHOE
12	6T0822	3	MOTOR MOUNTING SHIM - AS REQUIRED
13	6T0822A	2	MOTOR MOUNTING SHIM - AS REQUIRED
14	TF1124	1	SQUARE KEY
15	6T2270	8	PLOW BOLT
16	21633	14	CAPSCREW 3/8" X 1 3/4"
17	22016	22	FLATWASHER 3/8"
18	21625	22	HEX NUT 3/8"
19	21733	4	CAPSCREW 1/2" X 2"
20	21990	4	LOCKWASHER 1/2"
21	21725	4	HEX NUT 1/2"
22	6T2277	6	CAPSCREW 3/4" X 2" NF
23	21993	6	LOCKWASHER 3/4"
24	6T2413	6	HEX NUT 3/4"
25	21783	4	CAPSCREW 5/8" X 2"
26	25270	8	FLATWASHER 5/8"
27	21992	4	LOCKWASHER 5/8"
28	21775	4	HEX NUT 5/8"
29	21837	1	CAPSCREW 3/4" X 3 1/4"
30	21825	1	HEX NUT 3/4"
31	24489	1	HOSE RETURN
32	24490	1	HOSE PRESSURE
33	TF4852	2	FLANGE KIT
34	*	REF.	SPROCKET - REFER TO SPINDLE ASY
35	*	REF.	SPINDLE HOUSING - REFER TO SPINDLE ASY

ROTARY MOWER SPINDLE ASSY



NOTES:

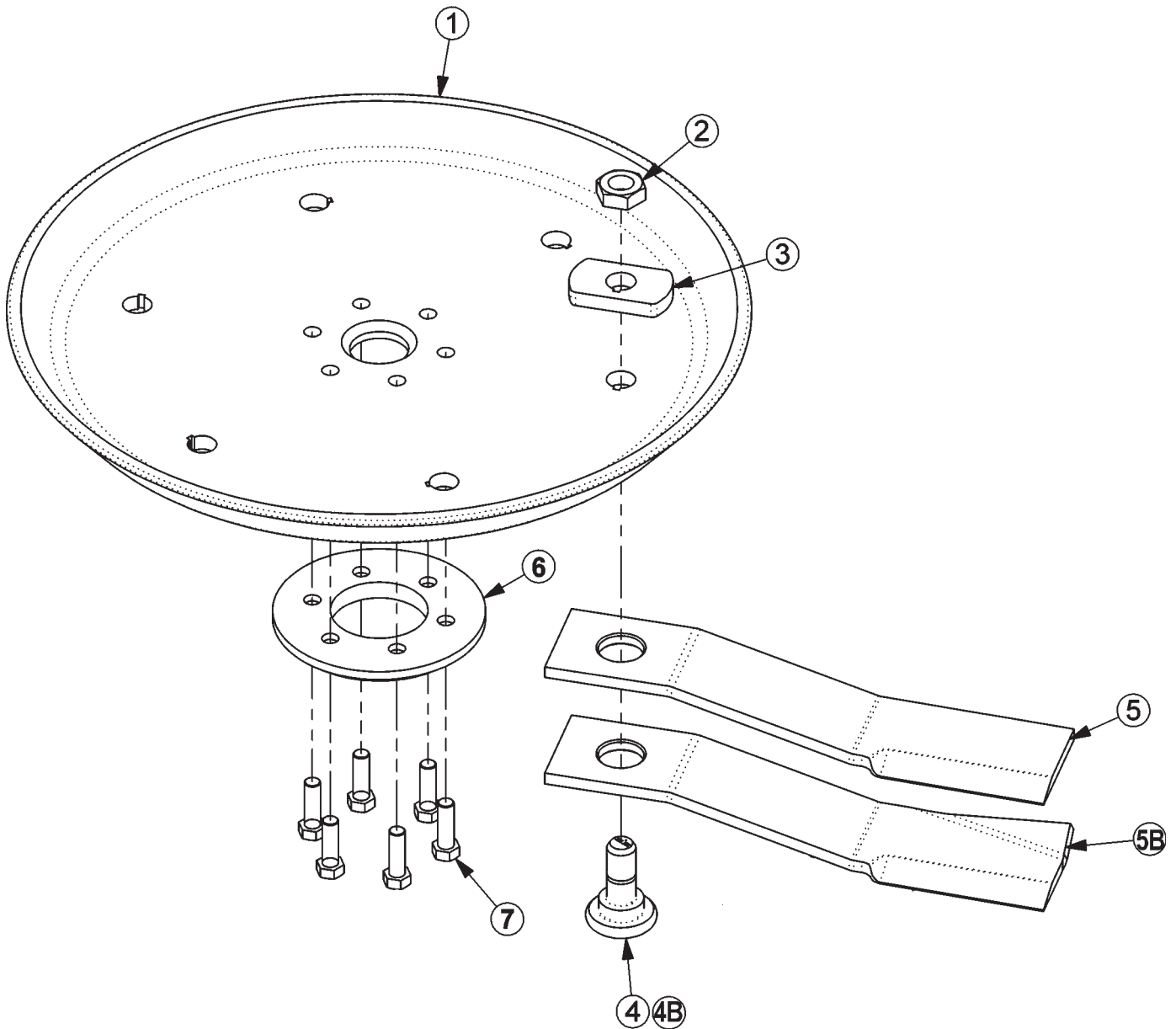
1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

Common Section 6 - 30

ROTARY MOWER SPINDLE ASSY

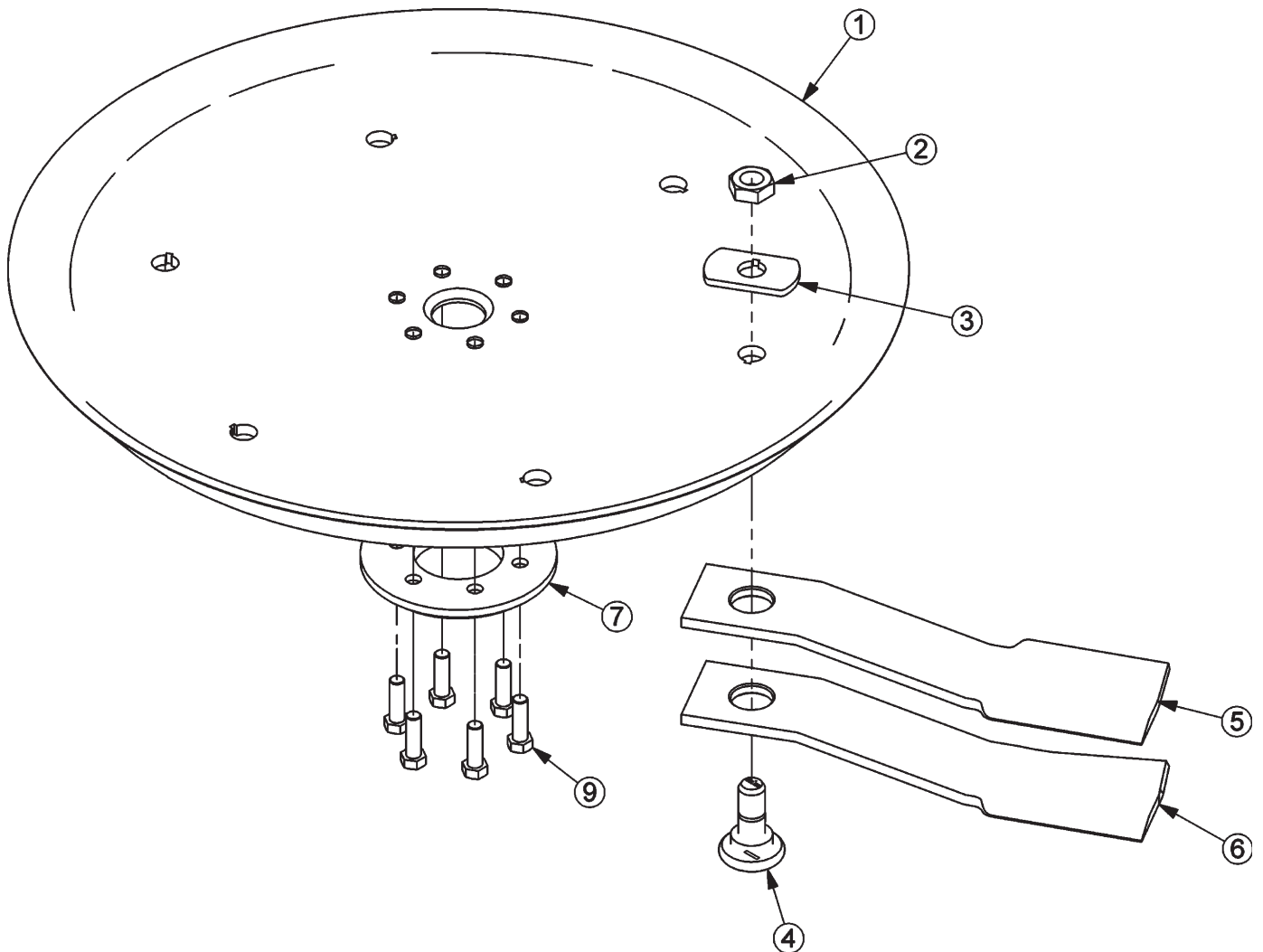
ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	AVAIL	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING 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"
*	3%+%	AVAIL	SPINDLE REBUILD KIT (INCLUDE ITEMS 2 THRU 8 AND 12 THRU 15)

50" ROTARY KNIVES AND DISKS 2005



ITEM	PART NO.	QTY.	DESCRIPTION
1	34875	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
4B	34497	2	KNIFE MOUNTING BOLT- OPTIONAL (REQUIRED FOR OPTIONAL BLADE)
5	06521000	2	STANDARD KNIFE
5B	34688	2	HIGH SUCTION KNIFE - OPTIONAL
6	TB2029-5	1	BOLT PROTECTOR
7	6T2290	6	CAPSCREW,5/8" x 2"
*	6T1825	1	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
*	27167	AVAIL	BOLT KIT (INCLUDE ITEMS 7 & LOCTITE)
*	06700001	AVAIL	KIT,TRB50,DISK,W/BOLT KIT(INCLUDE ITEM 1,3 & 7)

60" ROTARY NEW KNIVES AND DISKS

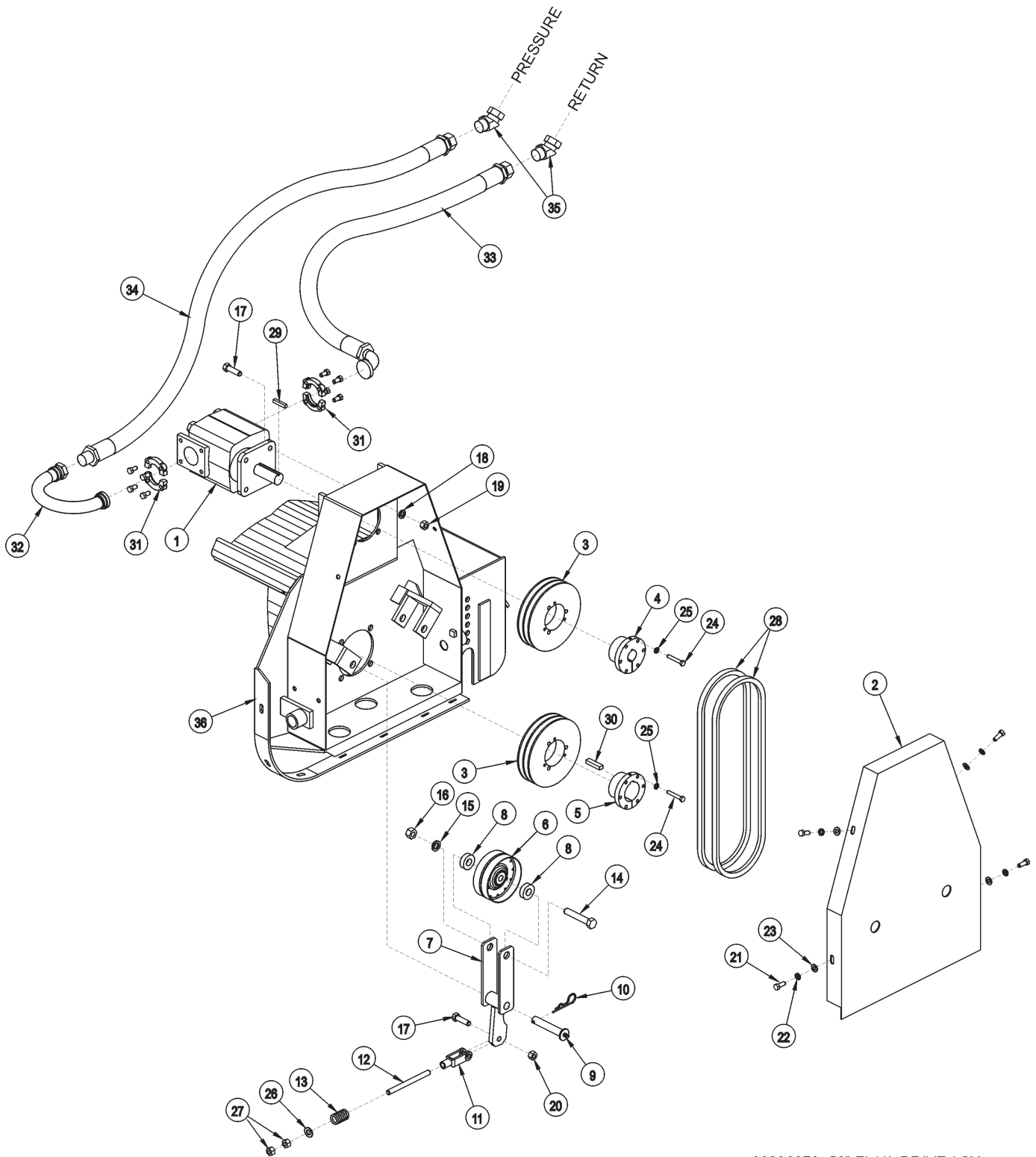


NEW 60 DISK & KNIVES

60" BOOM ROTARY

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	34684	2	STANDARD KNIFE
6	34685	2	SUCTION KNIFE - OPTIONAL
7	TB2029-5	1	BOLT PROTECTOR
9	6T2290	6	CAPSCREW 5/8" X 2"
*	6T1825	1	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
*	27167	AVAIL	BOLT KIT (INCLUDE ITEMS 9 AND LOCTITE)
*	06700002	AVAIL	KIT, 60/72, DISK, KNF MTG (INCLUDE ITEM 1, 3 & 9)

50" BOOM FLAIL DRIVE ASSY

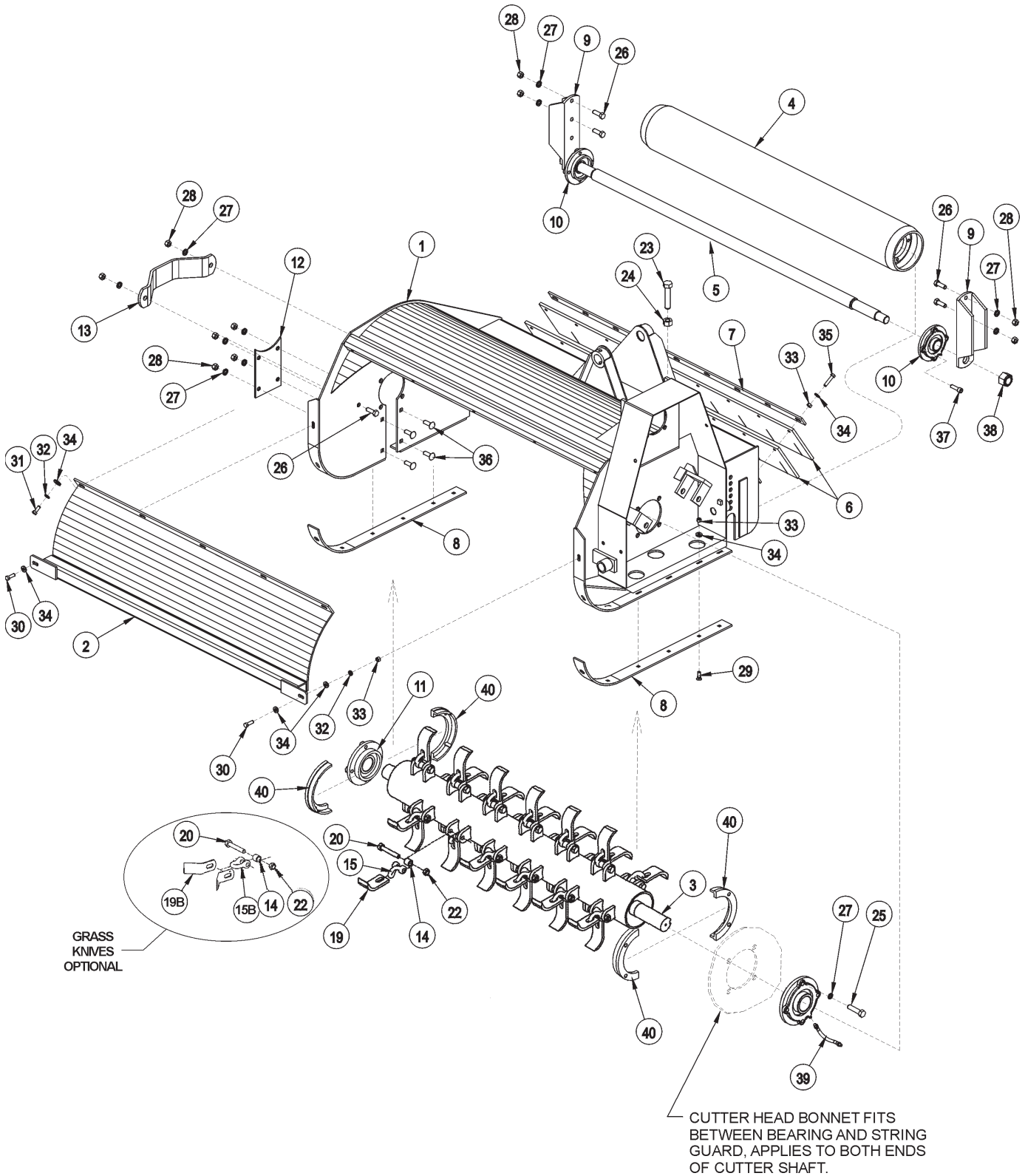


06200270 50" FLAIL DRIVE ASSY

50" BOOM FLAIL DRIVE ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504013	1	CURRENT MOTOR,(M350-1 3/4" GEAR)
	23174	1	ORIGINAL MOTOR,(M350-1 3/4" GEAR)
2	TF3006	1	BELT GUARD
3	TF3043	2	SHEAVE
4	TF3013	1	BUSHING
5	TF3011	1	BUSHING
6	TF3034	1	IDLER PULLEY
7	TF3205	1	IDLER ARM
8	TF3206	2	IDLER PULLEY SPACER
9	TF3605	1	IDLER ARM PIN WITH ZERK
10	6T3004	1	R - CLIP
11	PT3611A	1	CLEVIS
12	32481	1	THREADED ROD
13	TF3620	1	COMPRESSION SPRING
14	21789	1	CAPSCREW 5/8" X 3 1/2"
15	21992	1	LOCKWASHER 5/8"
16	21775	1	HEX NUT 5/8"
17	21732	5	CAPSCREW 1/2" X 1 3/4"
18	21990	4	LOCKWASHER 1/2"
19	21725	4	HEX NUT 1/2"
20	6T2418	1	LOCK NUT 1/2"
21	21630	4	CAPSCREW 3/8" X 1"
22	21988	4	LOCKWASHER 3/8"
23	22016	4	FLATWASHER 3/8"
24	21584	6	CAPSCREW 5/16" X 2"
25	21987	6	LOCKWASHER 5/16"
26	22018	1	FLATWASHER 1/2"
27	21700	2	HEX NUT 1/2" NF
28	TF3021	2	BELT
29	TF1125	1	SQUARE KEY
30	TF1025	1	SQUARE KEY MOTOR
31	TF4852	2	FLANGE KIT
32	31124	1	PREFORMED TUBE
33	31218	1	HOSE - RETURN
34	31219	1	HOSE - PRESSURE
35	24724	2	SWIVEL FITTING
36	*	REF.	CUTTER HEAD - REFER TO CUTTER HEAD ASY

NEW 50" BOOM FLAIL CUTTER ASSY.

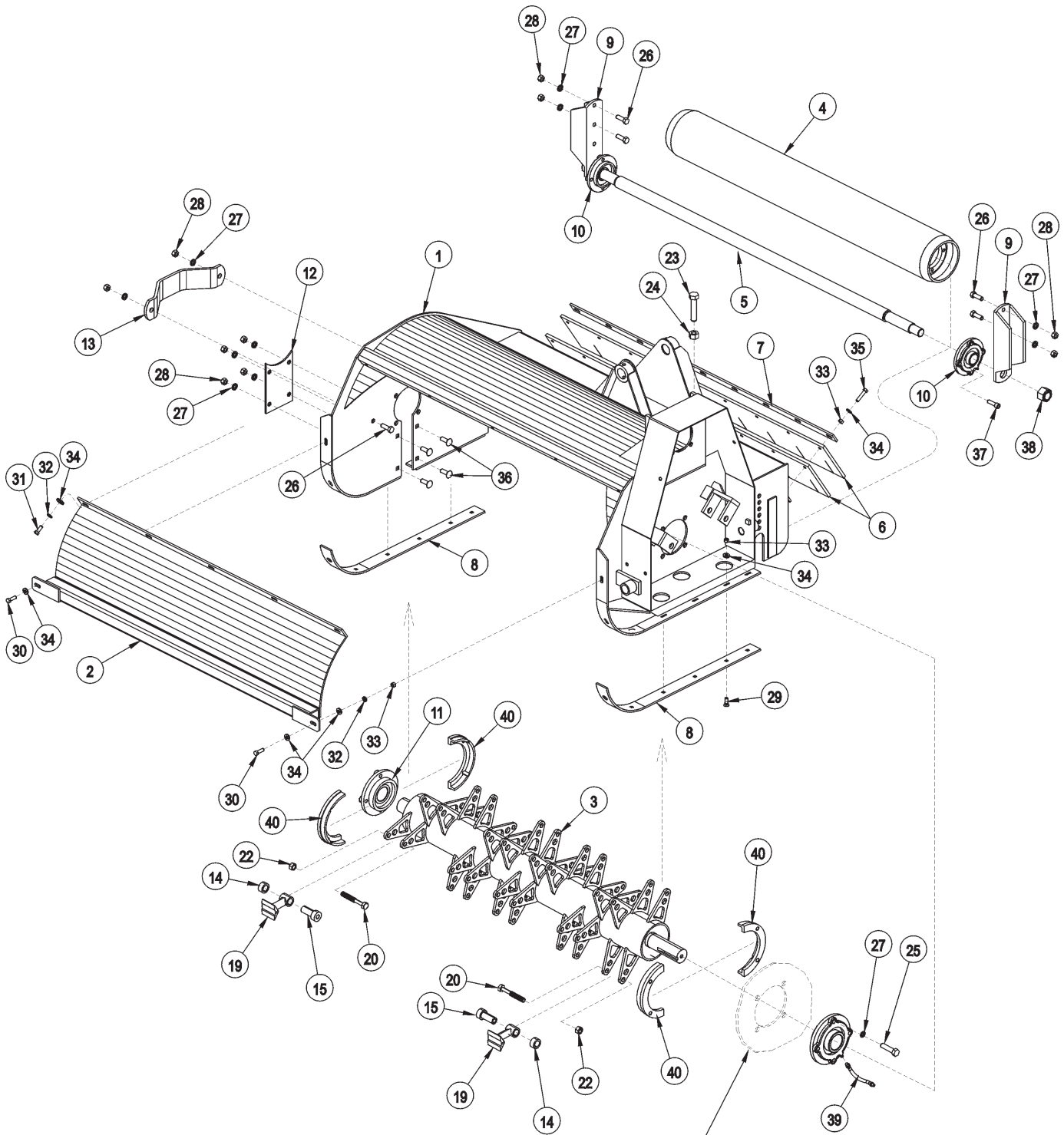


06200487 50" FLAIL CUTTER ASY

NEW 50" BOOM FLAIL CUTTER ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
	34787	AVAIL	FLAIL, BOOM,50, BRUSH,CPLT ASSY
	34789	AVAIL	FLAIL, BOOM,50, GRASS,CMPLT ASSY
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	34783	AVAIL	TBF50,BRUSH,KNIFE ASSY
3A	34784	AVAIL	TBF50,GRASS,KNIFE ASSY
4	TF3405	1	GROUND ROLLER
5	TF3406	1	GROUND ROLLER TIE ROD
6	TB1006A	2	DEFLECTOR FLAP
7	TB1008	1	FLAP RETAINING BAR
8	TF3001	2	SKID SHOE
9	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
10	TF1022	2	FLANGE BEARING 1 3/8"
11	TF1018	2	FLANGE BEARING 2 3/16"
12	TF3007A	1	COVER PLATE
13	TF1040	1	CUTTER SHAFT GUARD
14	33719	24	BUSHING,1ODX5/8ID
15	34782	24	CLEVIS,BRUSH
15B	34781	24	CLEVIS,GRASS
19	34780	24	BRUSH KNIFE STANDARD
19B	33714	48	HD KNIFE - OPTIONAL
20	34786	24	CAPSCREW 9/16" X 3 1/2"
22	6T2419	24	HEX NUT 9/16"
23	21838	1	CAPSCREW 3/4" X 3 1/2"
24	21825	1	HEX NUT 5/8"
25	21732	8	CAPSCREW 1/2" X 1 3/4"
26	21731	6	CAPSCREW 1/2" X 1 1/2"
27	21990	18	LOCKWASHER 1/2"
28	21725	10	HEX NUT 1/2"
29	6T2270	12	PLOWBOLT 3/8" X 1"
30	21631	2	CAPSCREW 3/8" X 1 1/4"
31	21630	5	CAPSCREW 3/8" X 1"
32	21988	7	LOCKWASHER 3/8"
33	21625	23	HEX NUT 3/8"
34	22016	30	FLATWASHER 3/8"
35	21633	9	CAPSCREW 3/8" X 1 3/4"
36	6T7031D	4	PLOW BOLT 1/2" X 1 1/2"
37	6T2330	8	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
38	6T1023R	2	NYLOCK NUT 1 1/8" NF
39	TF1032	1	FLANGE BEARING GREASE HOSE
40	31204	2 SETS	STRING GUARD SET (2 PIECES PER SET)

50" BOOM FLAIL CUTTER ASSY- 2000-2003



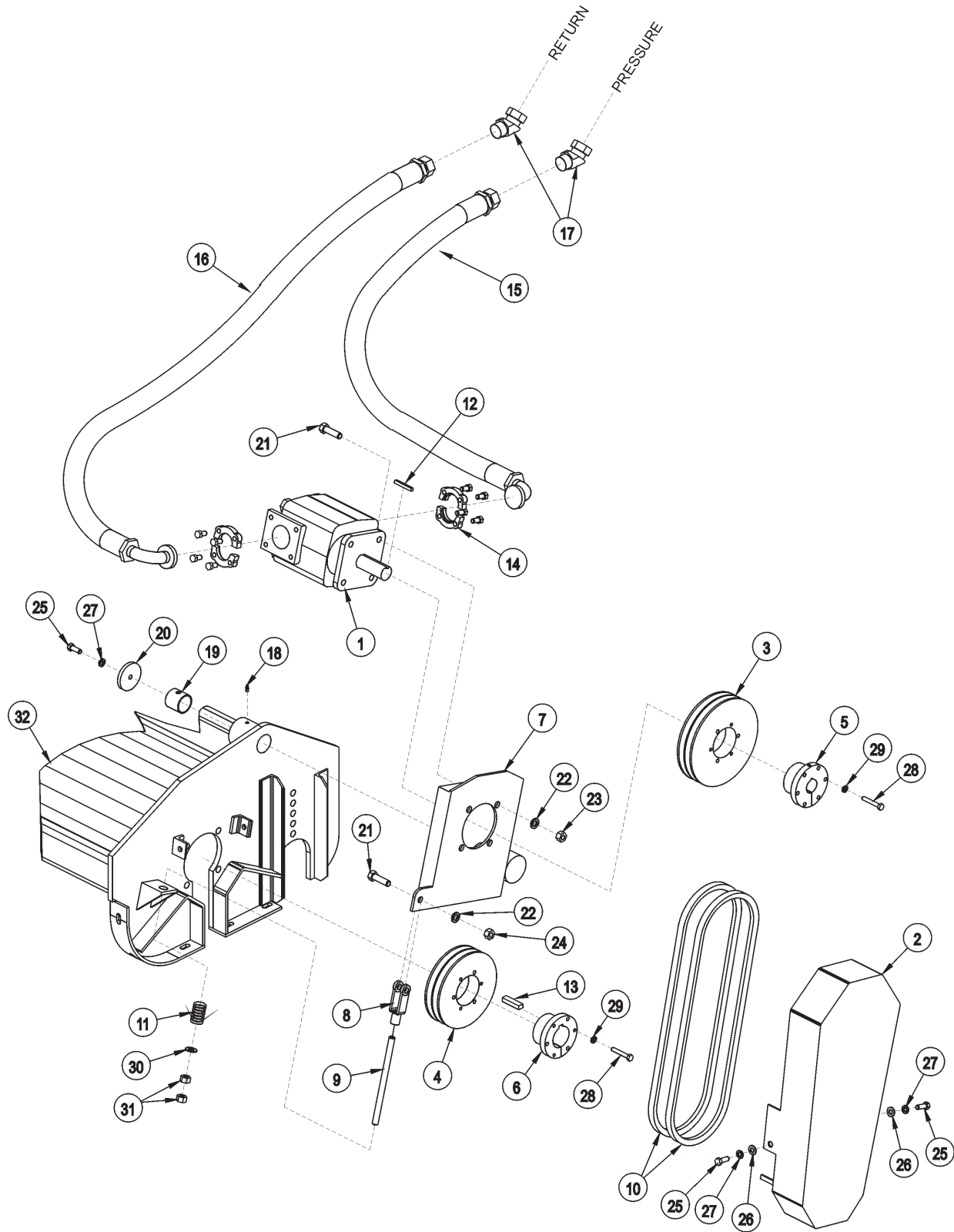
CUTTER HEAD BONNET FITS BETWEEN BEARING AND STRING GUARD, APPLIES TO BOTH ENDS OF CUTTER SHAFT.

06200270 50" FLAIL CUTTER ASY

50" BOOM FLAIL CUTTER ASSY- 2000-2003

ITEM	PART NO.	QTY.	DESCRIPTION
	33065	AVAIL	TBF 50" SR BRUSH HEAD ASY
	33150	AVAIL	TBF 50" SR BRUSH LOW PRESSURE HEAD ASY
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	33717	1	BRUSH CUTTER SHAFT / KNIFE ASY
4	TF3405	1	GROUND ROLLER
5	TF3406	1	GROUND ROLLER TIE ROD
6	TB1006A	2	DEFLECTOR FLAP
7	TB1008	1	FLAP RETAINING BAR
8	TF3001	2	SKID SHOE
9	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
10	TF1022	2	FLANGE BEARING 1 3/8"
11	TF1018	2	FLANGE BEARING 2 3/16"
12	TF3007A	1	COVER PLATE
13	TF1040	1	CUTTER SHAFT GUARD
14	33858	24	SPACER COLLAR
15	33857	24	SHOULDER BUSHING
19	46399.01	24	FLAIL - FORGED 62MM
20	33854	24	CAPSCREW 5/8" X 4 1/2"
22	32674	24	HEX NUT 5/8"
23	21838	1	CAPSCREW 3/4" X 3 1/2"
24	21825	1	HEX NUT 3/4"
25	21732	8	CAPSCREW 1/2" X 1 3/4"
26	21731	6	CAPSCREW 1/2" X 1 1/2"
27	21990	18	LOCKWASHER 1/2"
28	21725	10	HEX NUT 1/2"
29	6T2270	12	PLOWBOLT 3/8" X 1"
30	21631	2	CAPSCREW 3/8" X 1 1/4"
31	21630	5	CAPSCREW 3/8" X 1"
32	21988	7	LOCKWASHER 3/8"
33	21625	23	HEX NUT 3/8"
34	22016	30	FLATWASHER 3/8"
35	21633	9	CAPSCREW 3/8" X 1 3/4"
36	6T7031D	4	PLOW BOLT 1/2" X 1 1/2"
37	6T2330	8	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
38	6T1023R	2	NYLOCK NUT 1 1/8" NF
39	TF1032	1	FLANGE BEARING GREASE HOSE
40	31204	2 SETS	STRING GUARD SET (2 PIECES PER SET)

63" BOOM FLAIL DRIVE ASSY

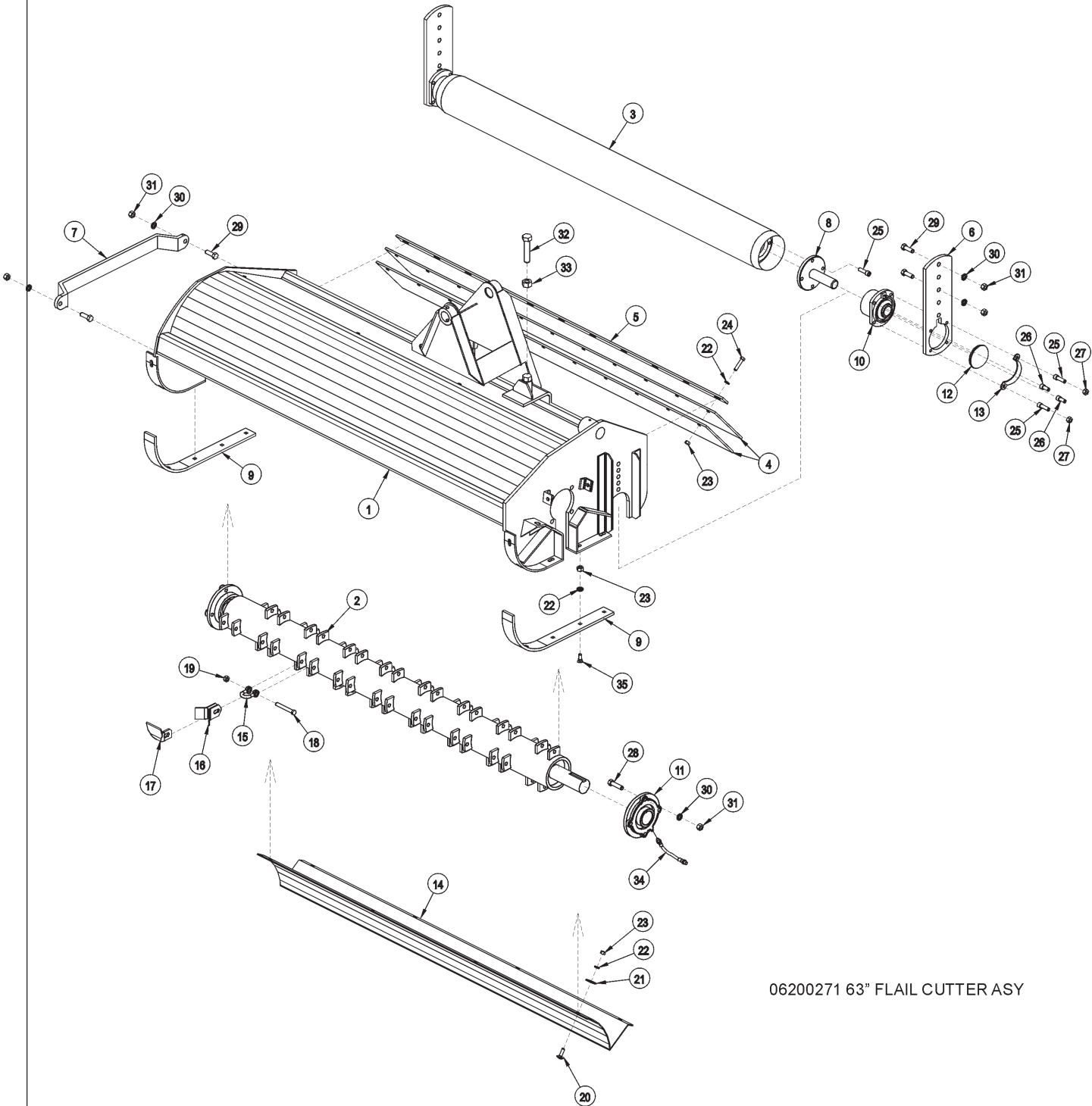


06200271 63" FLAIL DRIVE ASSY

63" BOOM FLAIL DRIVE ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504013	1	CURRENT MOTOR(M350-1 3/4 GEAR)
	23174	1	ORIGINAL MOTOR(M350-1 3/4 GEAR)
2	28703B	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4	TF3040	1	LOWER SHEAVE
5	TF3013	1	BUSHING
6	28723	1	BUSHING
7	28679B	1	MOTOR CHANNEL
8	PT3611A	1	CLEVIS
9	40496	1	THREADED ROD
10	28702	2	BELT
11	TF3620A	1	TENSIONER SPRING
12	28572	1	SQUARE KEY
13	TF1025	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1 X 69(FJX X20FLG90) - PRESSURE
16	30309	1	HOSE,1 X 78(FJX X20FLG90) - RETURN
17	24724	2	SWIVEL FITTING
18	TF1033	1	GREASE ZERK
19	27580	1	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW 1/2" X 1 3/4"
22	21990	5	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	21727	1	NYLOCK NUT 1/2"
25	21630	3	CAPSCREW 3/8" X 1"
26	22016	2	FLATWASHER 3/8"
27	21988	3	LOCKWASHER 3/8"
28	21584	6	CAPSCREW 5/16" X 2"
29	21987	6	LOCKWASHER 5/16"
30	27938	1	FLATWASHER 1/2"
31	21700	2	HEX NUT 1/2" NF
32	*	REF.	CUTTER HEAD - REFER TO CUTTER HEAD ASY

63" BOOM FLAIL CUTTER ASSY



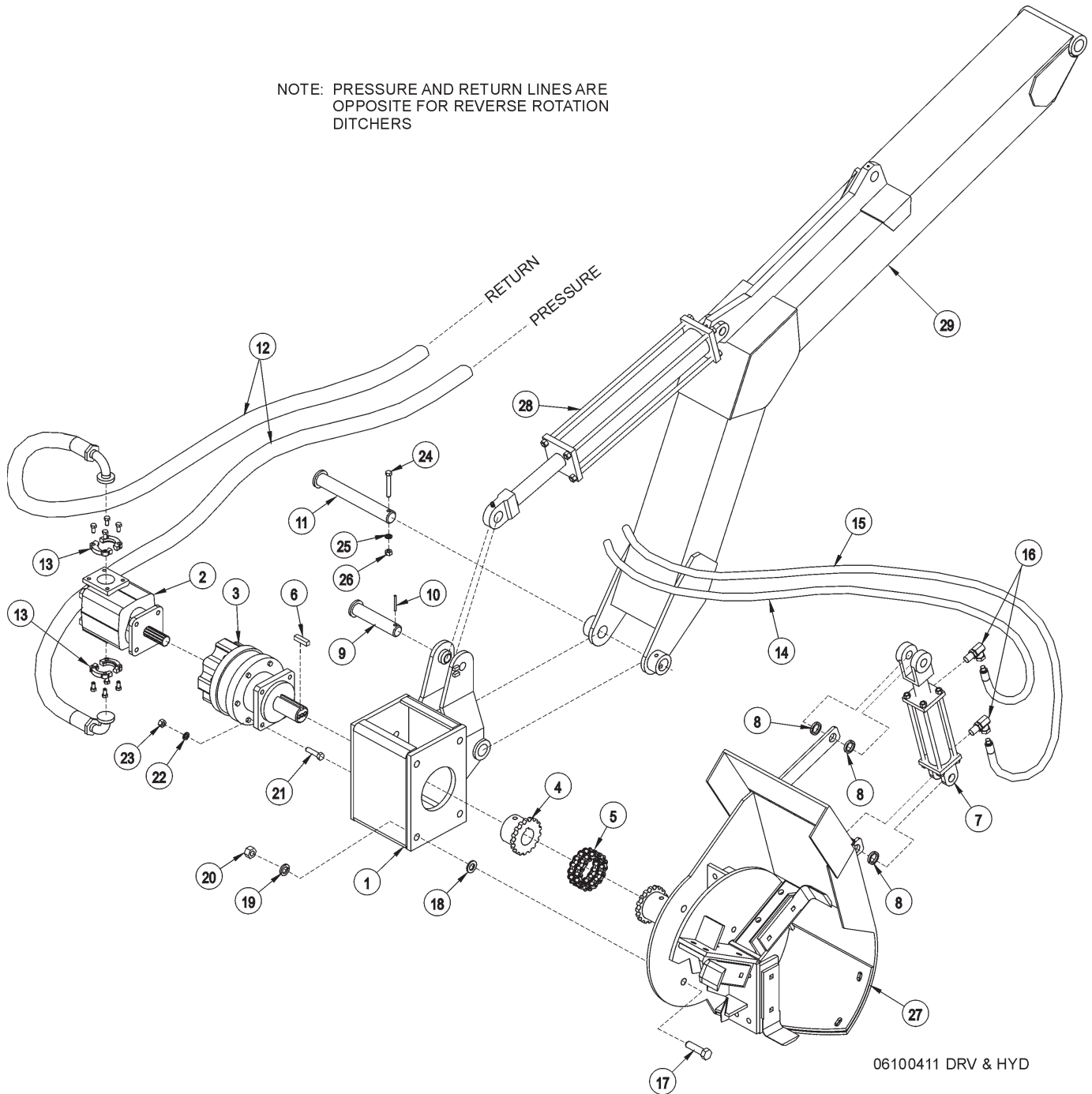
06200271 63" FLAIL CUTTER ASSY

63" BOOM FLAIL CUTTER ASSY

ITEM	PART NO.	QTY.	DESCRIPTION
1	28659H	1	CUTTER HEAD BONNET
2	28743	1	CUTTER SHAFT / KNIFE ASY STANDARD GRASS
2A	28744	1	CUTTER SHAFT / KNIFE ASY SMOOTH CUT
3	28650A	1	GROUND ROLLER
4	28701	2	DEFLECTOR FLAP
5	28700	1	FLAP RETAINING BAR
6	28735	2	ADJUSTABLE ROLLER BRACKET
7	27975A	1	CUTTER SHAFT GUARD
8	TF1045B	2	GROUND ROLLER STUB SHAFT
9	28086A	2	SKID SHOE
10	TF1022S	2	FLANGE BEARING
11	28683	2	FLANGE BEARING
12	TF1041	2	DUST CAP
13	27857	2	BEARING CAP STRAP
14	28665A	1	BAFFLE - INSIDE UPPER REAR OF CUTTER HEAD
15	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
16	33713	72	FLAIL KNIFE - STANDARD
17	28184A	36	FLAIL KNIFE - SMOOTH CUT (OPTIONAL)
18	TF1021B	36	FLAIL KNIFE MOUNTING BOLT
19	21677	36	NYLOCK NUT
20	6T2283	8	CARRIAGE BOLT 3/8" X 1"
21	6T2615	8	FENDER WASHER 3/8"
22	21988	29	LOCKWASHER 3/8"
23	21625	29	HEX NUT 3/8"
24	21633	11	CAPSCREW 3/8" X 1 3/4"
25	6T2330	12	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
26	6T2331	4	CAPSCREW 7/16" X 1" SOCKET HEAD
27	24701	4	HEX NUT 7/16"
28	21733	8	CAPSCREW 1/2" X 2"
29	21731	6	CAPSCREW 1/2" X 1 1/2"
30	21990	14	LOCKWASHER 1/2"
31	21725	14	HEX NUT 1/2"
32	21838	1	CAPSCREW 3/4" X 3 1/2"
33	21825	1	HEX NUT 3/4"
34	TF1032	1	FLANGE BEARING GREASE HOSE
35	6T2270	10	PLOW BOLT 3/8" X 1 1/4"

DITCHER HEAD MTG, DRIVE, HYDRAULICS

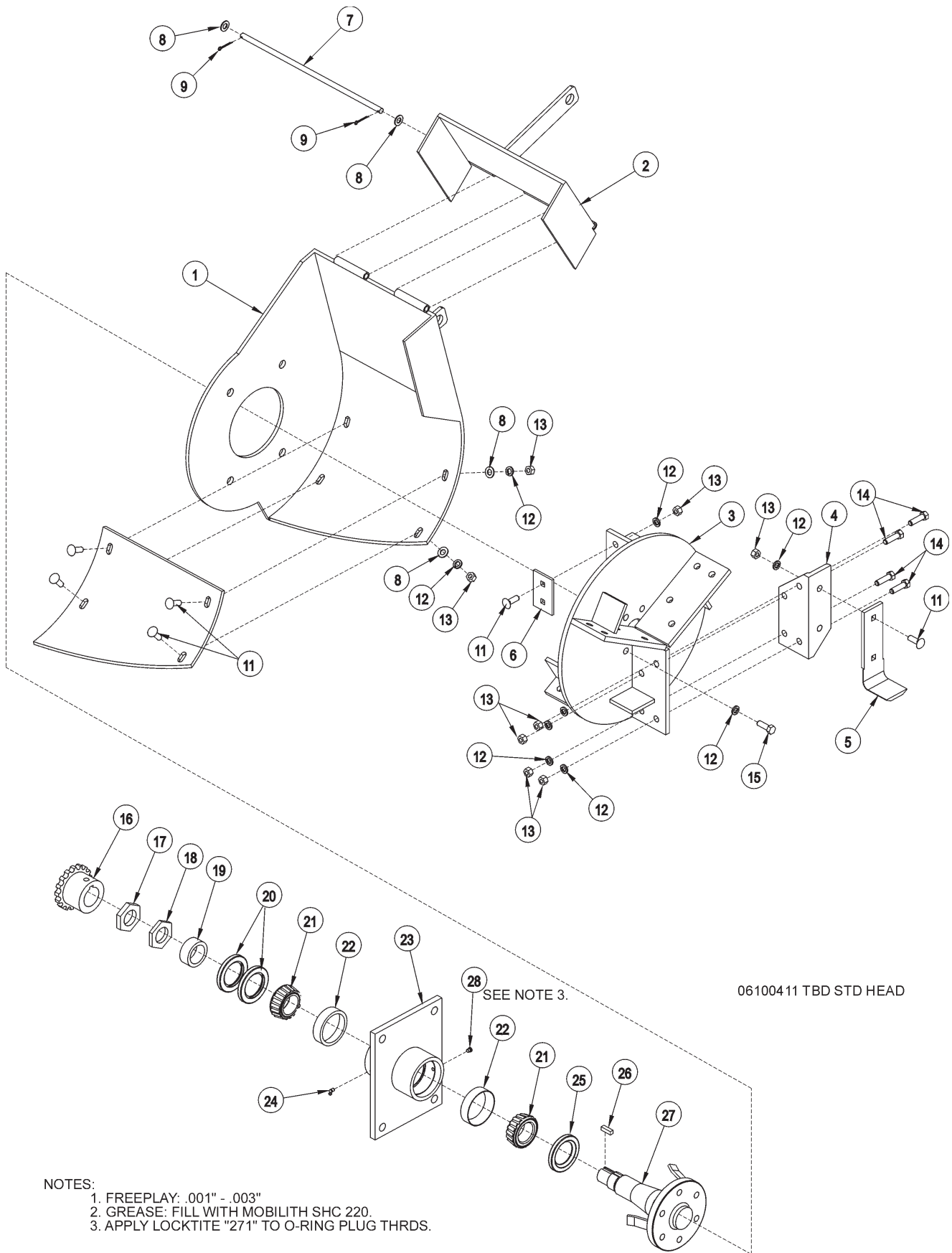
NOTE: PRESSURE AND RETURN LINES ARE
OPPOSITE FOR REVERSE ROTATION
DITCHERS



DITCHER HEAD MTG, DRIVE, HYDRAULICS

ITEM	PART NO.	QTY.	DESCRIPTION
1	22726A	1	BOOM DITCHER MOUNTING HEAD
2	06504014	1	CURRENT MOTOR,(M365-1 GEAR)
	33357	1	ORIGINAL MOTOR,(M365-1 GEAR)
3	31869	1	GEAR REDUCER
4	31875	1	SPROCKET
5	6T7004	1	COUPLER CHAIN
6	26142A	1	SQUARE KEY
7	6T7022	1	CYLINDER
8	6T7018	4	SPACER
9	TB1036	1	CLEVIS PIN
10	TF1023	2	ROLL PIN
11	TB1025D	1	SECONDARY BOOM PIN
12	31885	2	HOSE
13	TF4852	2	FLANGE KIT
14	25471	1	HOSE
15	TB2036	1	HOSE
16	6T0158	2	SWIVEL FITTING
17	21835	4	CAPSCREW 3/4" X 2 3/4"
18	22021	4	FLATWASHER 3/4"
19	21993	4	LOCKWASHER 3/4"
20	21825	4	HEX NUT 3/4"
21	21733	4	CAPSCREW 1/2" X 2"
22	21990	4	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	21688	1	CAPSCREW 7/16" X 3 1/4"
25	21989	1	LOCKWASHER 7/16"
26	21675	1	HEX NUT 7/16"
27	*	REF.	DITCHER HEAD - REFER TO HEAD ASY
28	*	REF.	BOOM CYLINDER - REFER TO BOOM ARM ASY
29	*	REF.	MAIN BOOM - REFER TO BOOM ARM ASY

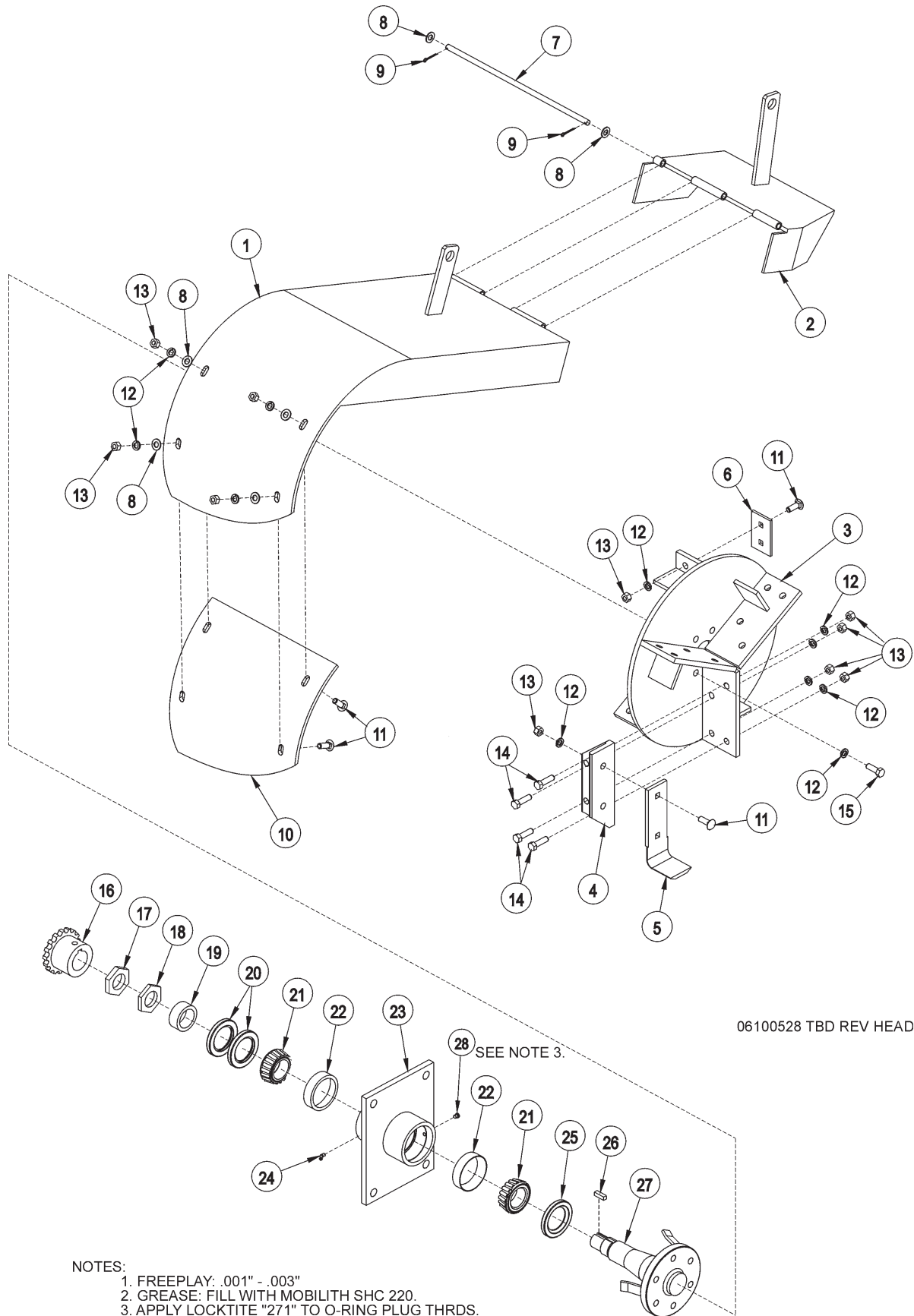
DITCHER HEAD STANDARD ROTATION



DITCH HEAD STANDARD ROTATION

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T7013	1	STANDARD ROTATION HEAD
2	6T7020	1	DEFECTOR CHUTE
3	6T7008	1	KNIFE MOUNTING DISK
4	6T7009	3	KNIFE MOUNTING ANGLE
5	6T7011A	3	KNIFE
6	6T7012	3	SLINGER TAB
7	6T7019	1	DEFLECTOR CHUTE PIN
8	22018	6	FLATWASHER 1/2"
9	22516	2	COTTER PIN
10	6T7015	1	WEAR PLATE
11	6T2267	16	CARRIAGE BOLT 1/2" X 1 1/2"
12	21990	34	LOCKWASHER 1/2"
13	21725	28	HEX NUT 1/2"
14	21732	12	CAPSCREW 1/2" X 1 3/4"
15	6T2279	6	CAPSCREW 1/2" X 1 1/2"
	6T7030	AVAIL	DITCHER SPINDLE ASY
16	6T7005	1	SPROCKET
17	6T1016	1	BEARING LOCK NUT - THICK
18	6T1015	1	BEARING LOCK NUT - THIN
19	6T1014	1	BEARING ADJUSTMENT SLEEVE
20	6T1011	1	UPPER SEAL - SET OF 2
21	6T1012	2	BEARING CONE
22	6T1013	2	BEARING CUP
23	6T7007	1	SPINDLE HOUSING
24	6T3210	1	GREASE ZERK
25	6T1011D	1	LOWER SEAL
26	6T1019	1	SPINDLE KEY
27	6T1018	1	SPINDLE
28	06503064	1	O-RING PLUG,1/8"

DITCHER HEAD REVERSE ROTATION



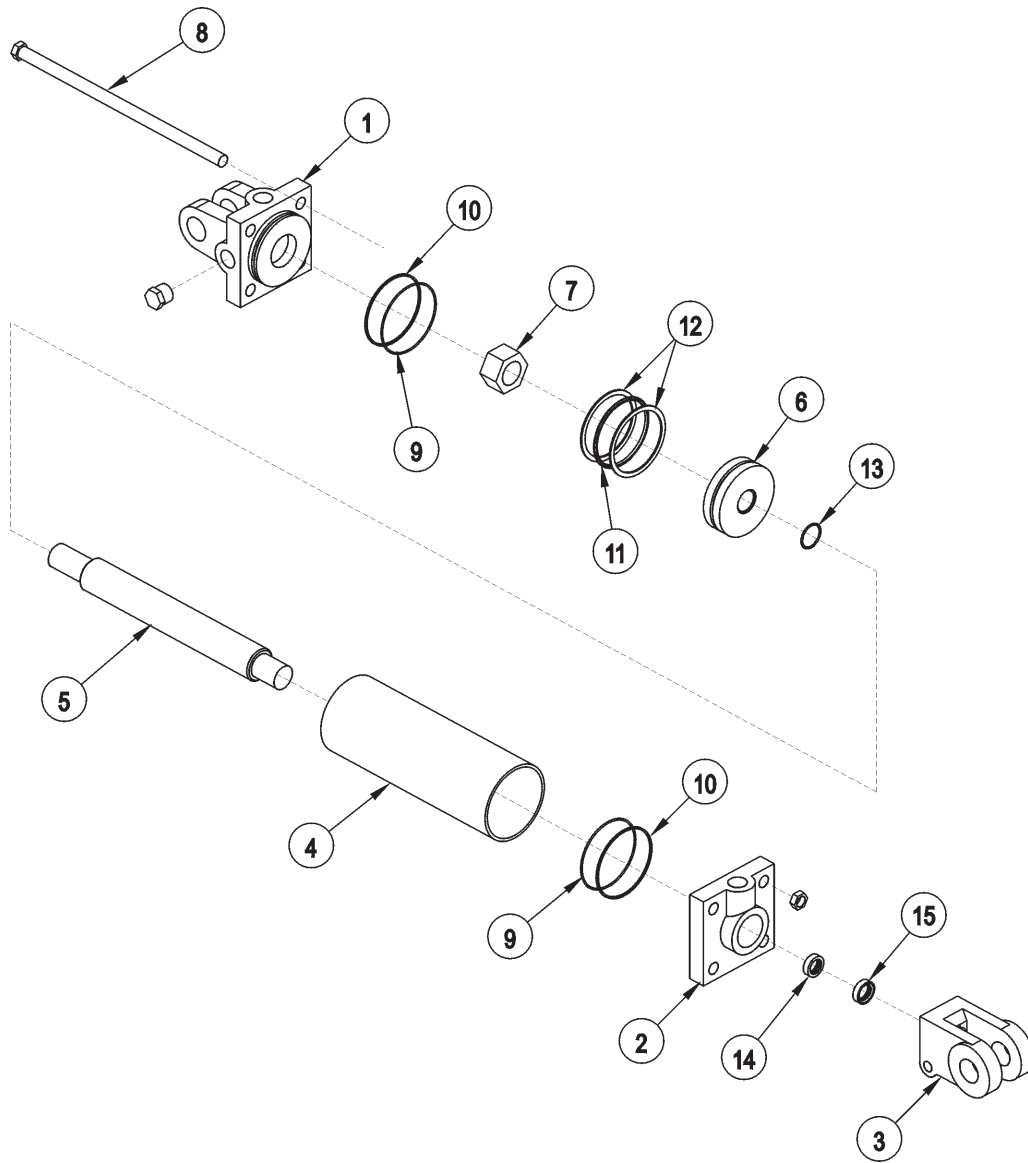
NOTES:

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

DITCHER HEAD REVERSE ROTATION

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T7014	1	REVERSE ROTATION HEAD
2	6T7021	1	DEFECTOR CHUTE
3	6T7008R	1	KNIFE MOUNTING DISK
4	6T7010	3	KNIFE MOUNTING ANGLE
5	6T7011A	3	KNIFE
6	6T7012	3	SLINGER TAB
7	6T7019	1	DEFLECTOR CHUTE PIN
8	22018	6	FLATWASHER 1/2"
9	22516	2	COTTER PIN
10	6T7015	1	WEAR PLATE
11	6T2267	16	CARRIAGE BOLT 1/2" X 1 1/2"
12	21990	34	LOCKWASHER 1/2"
13	21725	28	HEX NUT 1/2"
14	21732	12	CAPSCREW 1/2" X 1 3/4"
15	6T2279	6	CAPSCREW 1/2" X 1 1/2"
	6T7030	AVAIL	DITCHER SPINDLE ASY
16	6T7005	1	SPROCKET
17	6T1016	1	BEARING LOCK NUT - THICK
18	6T1015	1	BEARING LOCK NUT - THIN
19	6T1014	1	BEARING ADJUSTMENT SLEEVE
20	6T1011	1	UPPER SEAL - SET OF 2
21	6T1012	2	BEARING CONE
22	6T1013	2	BEARING CUP
23	6T7007	1	SPINDLE HOUSING
24	6T3210	1	GREASE ZERK
25	6T1011D	1	LOWER SEAL
26	6T1019	1	SPINDLE KEY
27	6T1018	1	SPINDLE
28	06503064	1	O-RING PLUG,1/8"

HYDRAULIC CYLINDERS 6T7022 - 6T0150



Tb1015

HYDRAULIC CYLINDERS 6T7022 - 6T0150

2" X 6" CYLINDER # 6T7022

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0167D	1	CYLINDER BUTT
2	6T0170D	1	CYLINDER GLAND
3	6T0178D	1	CLEVIS END
4	6T0165D	1	CYLINDER TUBE
5	6T0162D	1	PISTON ROD
6	6T0173D	1	PISTON
7	6T0179D	1	LOCKNUT
8	6T0176D	4	TIE ROD
	6T0187D	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

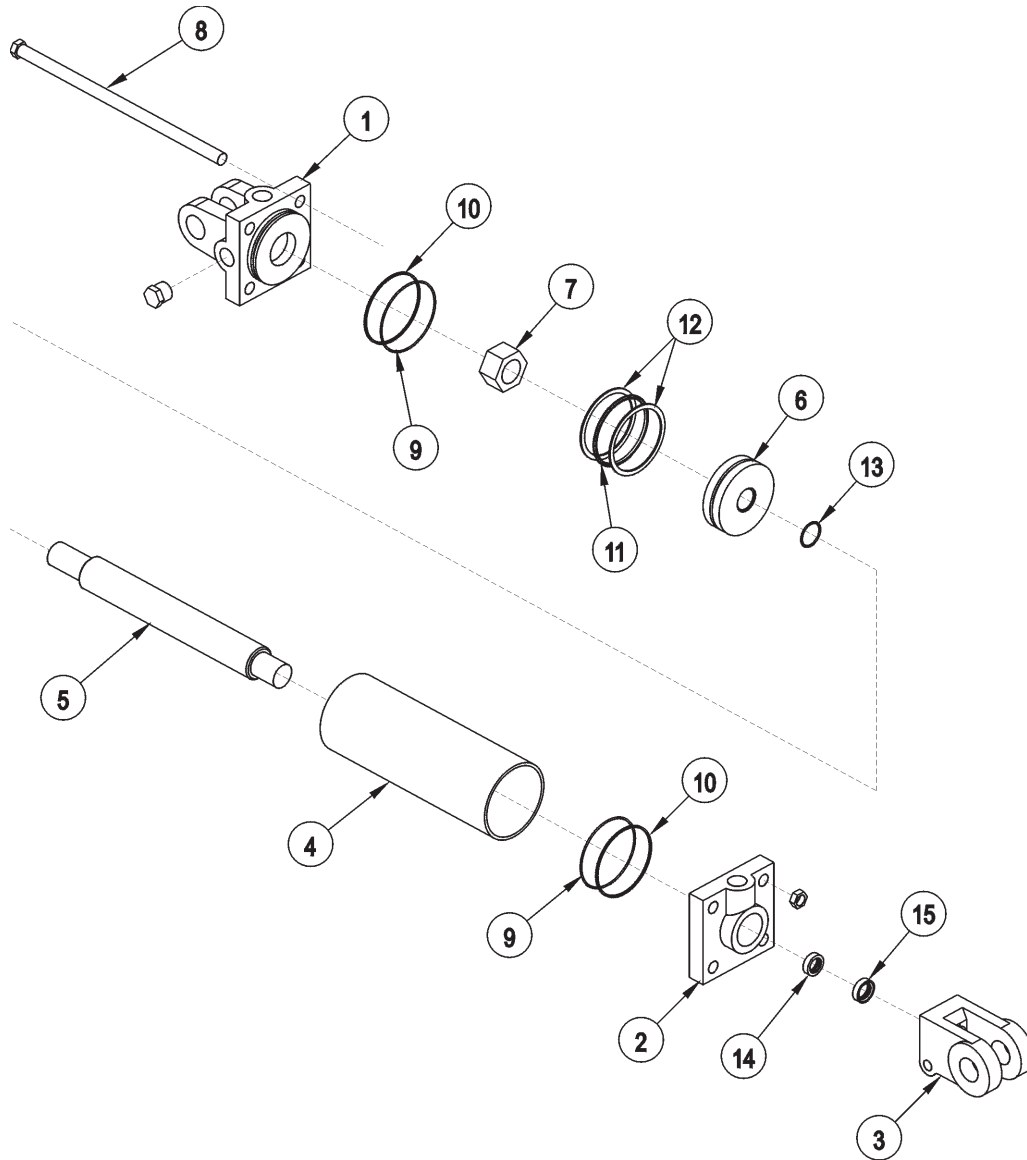
3" X 10" CYLINDER # 6T0151B

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 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

HYDRAULIC CYLINDERS TB1012, TB1015, 30166



Tb1015

HYDRAULIC CYLINDERS TB1012, TB1015, 30166

3 1/2" X 20" CYLINDER # TB1012

ITEM	PART NO.	QTY	DESCRIPTION
1	TB1053	1	CYLINDER BUTT
2	TB1054	1	CYLINDER GLAND
3	TB3033	1	CLEVIS END
4	TB1068	1	CYLINDER TUBE
5	TB1067	1	PISTON ROD
6	TB1055	1	PISTON
7	TB1056	1	LOCKNUT
8	TB1069	4	TIE ROD ASY
	TB1066	AVAIL	SEAL KIT
9		2	O - RING
10	NOT USED	*	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	O - RING
15		1	BACK - UP WASHER
16		1	WIPER

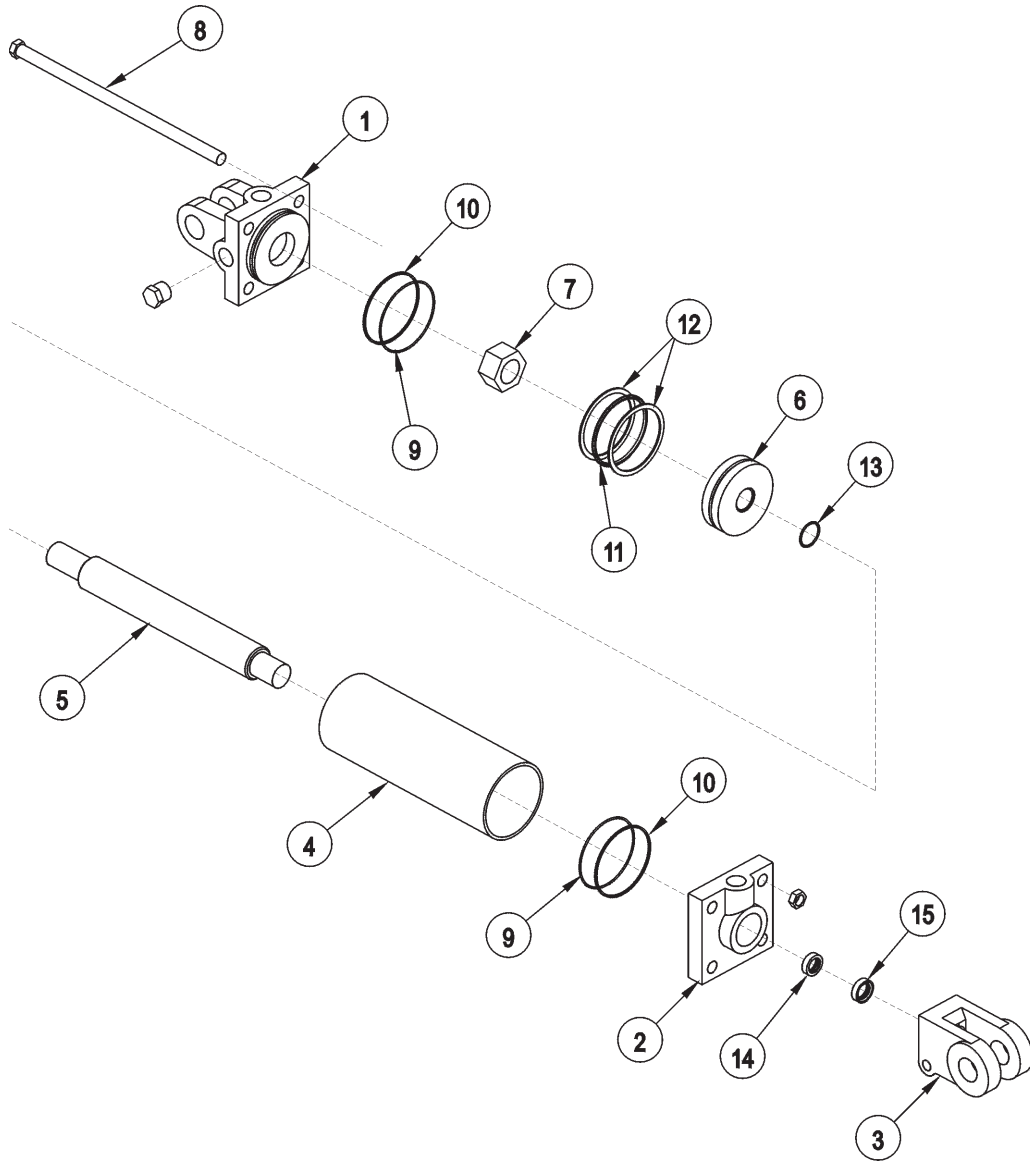
4" X 20" CYLINDER # TB1015

ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0169	1	CYLINDER BUTT
2	6T0171	1	CYLINDER GLAND
3	6T0172	1	CLEVIS END
4	6T0201	1	CYLINDER TUBE
5	6T0200	1	PISTON ROD
6	6T0174	1	PISTON
7	6T0175	1	LOCKNUT
8	6T0202	4	TIE ROD ASY
	6T0196	AVAIL	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12	NOT USED	*	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

5" X 20" CYLINDER # 30166

ITEM	PART NO.	QTY.	DESCRIPTION
1	30215	1	CYLINDER BUTT 5"
2	30216	1	CYLINDER GLAND
3	30218	1	CLEVIS END
4	30214	1	CYLINDER TUBE
5	30213	1	PISTON ROD
6	30217	1	PISTON
7	6T0175	1	LOCKNUT
8	30219	4	TIE ROD
	30227	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

HYDRAULIC CYLINDERS 34086 - 34087



Tb1015

HYDRAULIC CYLINDERS 34086 - 34087

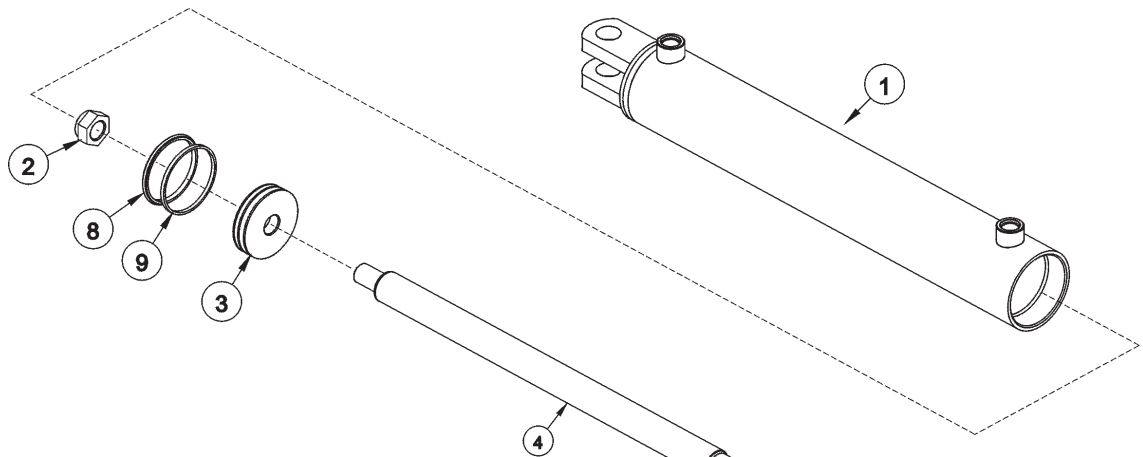
4" X 20" CYLINDER # 34086

ITEM	PART NO.	QTY.	DESCRIPTION
1	34083	1	CYLINDER BUTT
2	6T0171	1	CYLINDER GLAND
3	6T0172	1	CLEVIS END
4	6T0201	1	CYLINDER TUBE
5	6T0200	1	PISTON ROD
6	6T0174	1	PISTON
7	6T0175	1	LOCKNUT
8	6T0202	4	TIE RODASY
	6T0196	AVAIL	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12	NOT USED	*	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

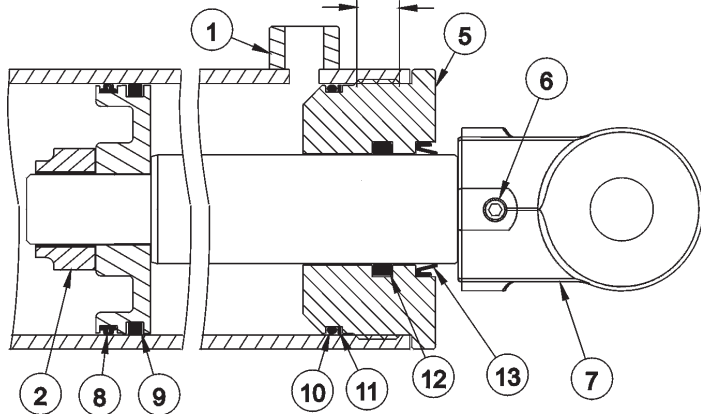
5" X 20" CYLINDER # 34087

ITEM	PART NO.	QTY.	DESCRIPTION
1	34084	1	CYLINDER BUTT
2	34085	1	CYLINDER GLAND
3	30218	1	CLEVIS END
4	30214	1	CYLINDER TUBE
5	30213	1	PISTON ROD
6	30217	1	PISTON
7	6T0175	1	LOCKNUT
8	30219	4	TIE ROD
	30227	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

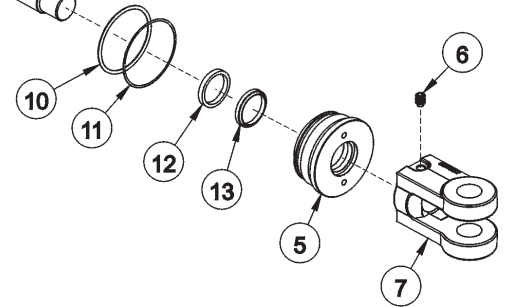
3" WELDED CYLINDER PARTS



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



WELDED CYL SECTION



35193 CYL PART

PISTON NUT

NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

TORQUE

ROD CLEVIS SET SCREW

3/8-16 UNC	20 FT. LB
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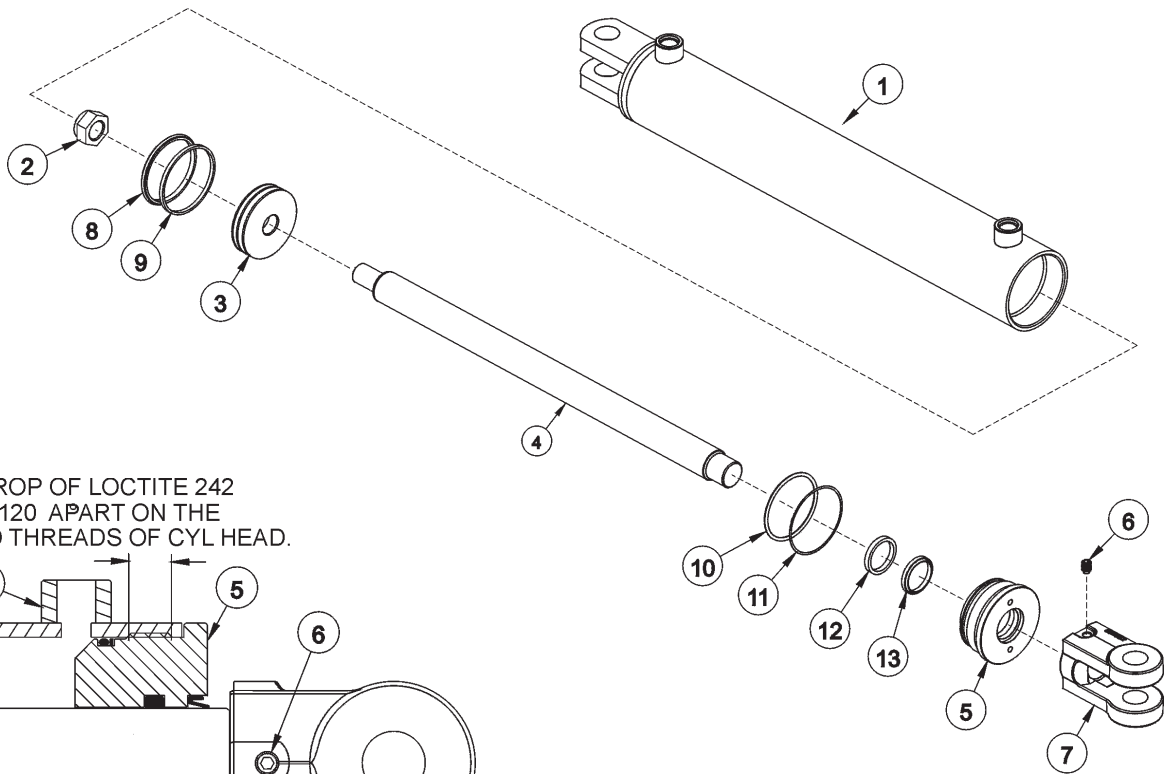
TORQUE

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

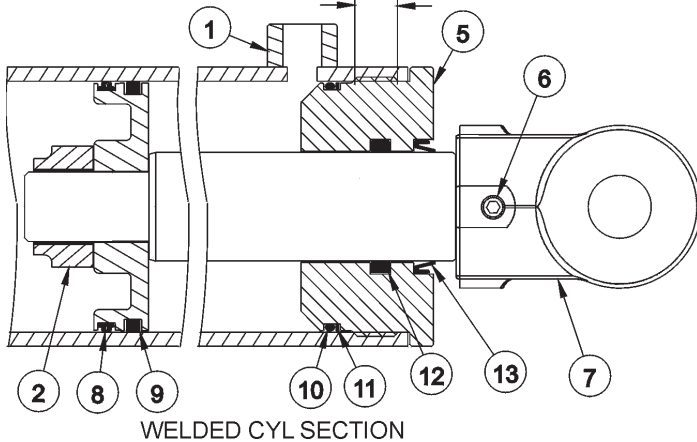
ITEM	PART NO.	QTY.	DESCRIPTION
*	34941	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501523	1	TUBE WELDMENT
2	34906	1	LOCKNUT
3	34902	1	PISTON
4	06501522	1	CYLINDER ROD
5	06501524	1	CYLINDER HEAD
6	34905	1	SET SCREW
7	34904	1	ROD CLEVIS
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	06501511	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

3" WELDED CYLINDER PARTS



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



35193 CYL PART

PISTON NUT

NUT 3/4-16 UNF LOCKNUT

NUT 1-14 UNS. LOCKNUT

NUT 1 1/8-12 UNF. LOCKNUT

NUT 1 1/4-12 UNF. LOCKNUT

NUT 1 1/2-12 UNF. LOCKNUT

TORQUE

130 FT. LB

300 FT. LB

350 FT. LB

525 FT. LB

750 FT. LB

ROD CLEVIS SET SCREW

3/8-16 UNC

TORQUE

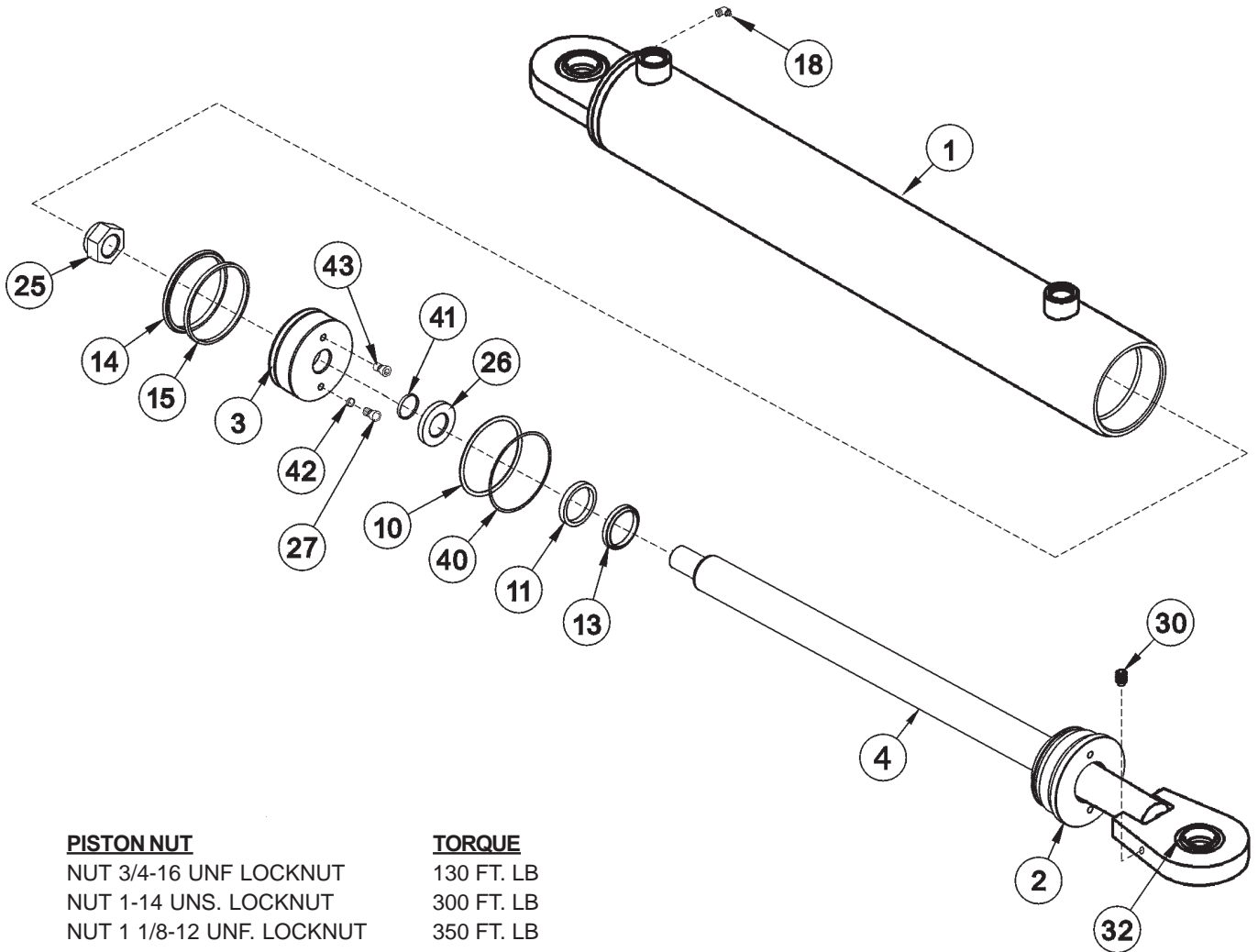
20 FT. LB

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

ITEM	PART NO.	QTY.	DESCRIPTION
*	35193	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	34900	1	TUBE WELDMENT
2	34906	1	LOCKNUT
3	34902	1	PISTON
4	34903	1	CYLINDER ROD
5	34901	1	CYLINDER HEAD
6	34905	1	SET SCREW
7	34904	1	ROD CLEVIS
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	34918	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

3" x 17 1/2" WELDED CYLINDER PARTS



06501001 CYL PART

PISTON NUT

- NUT 3/4-16 UNF LOCKNUT
- NUT 1-14 UNS. LOCKNUT
- NUT 1 1/8-12 UNF. LOCKNUT
- NUT 1 1/4-12 UNF. LOCKNUT
- NUT 1 1/2-12 UNF. LOCKNUT

TORQUE

- 130 FT. LB
- 300 FT. LB
- 350 FT. LB
- 525 FT. LB
- 750 FT. LB

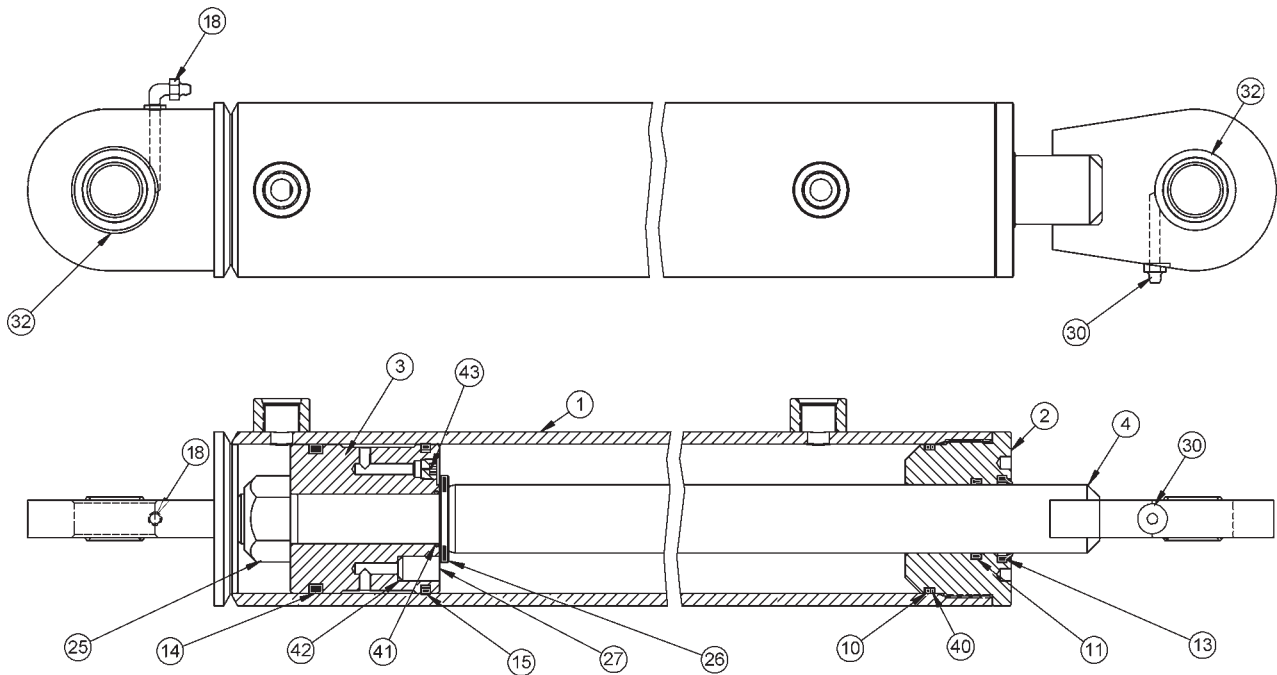
ROD CLEVIS SET SCREW

- 3/8-16 UNC

TORQUE

- 20 FT. LB

3" x 17 1/2" WELDED CYLINDER PARTS



PISTON PRESSED ON
WITH LOCTITE 271 OR
EQUIVALENT

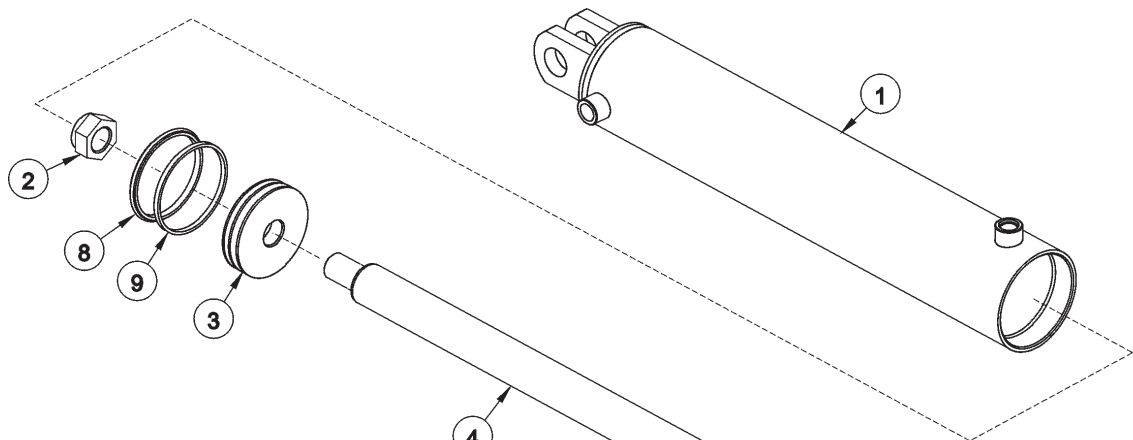
APPLY A DROP OF LOCTITE 243 3 PLACES
120° APART ON THE FIRST TWO
THREADS OF THE CYL HEAD

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

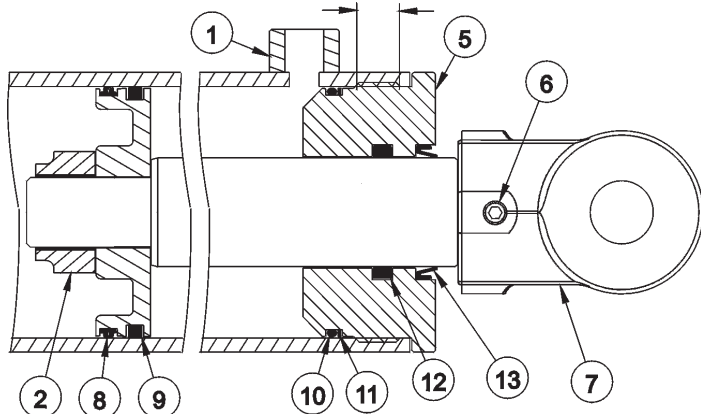
ITEM	PART NO.	QTY.	DESCRIPTION
*	06501001	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501506	1	TUBE WELDMENT
2	34901	1	CYLINDER HEAD
3	06501508	1	PISTON
4	06501507	1	ROD W/ CLEVIS
10	*	1	O-RING, 2 3/4 x 3
11	*	1	ROD SEAL
13	*	1	ROD WIPER
14	*	1	PSP SEAL
15	*	1	PISTON SEAL, CAST IRON
18	6T3204	1	ZERK, ELBOW
25	34906	1	LOCKNUT
26	06501505	1	WASHER
27	06501503	1	CHECK VALVE
30	6T3207	1	ZERK
32	06501502	2	BEARING, SHPERICAL
40	*	1	BACKUP SEAL
41	*	1	O-RING, 1 x 1 1/8
42	*	1	O-RING, 3/8 x 1/2
43	06501504	1	ORIFICE
	06501501	AVAIL	SEAL REPAIR KIT (INCLUDES ITEMS WITH "**")

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

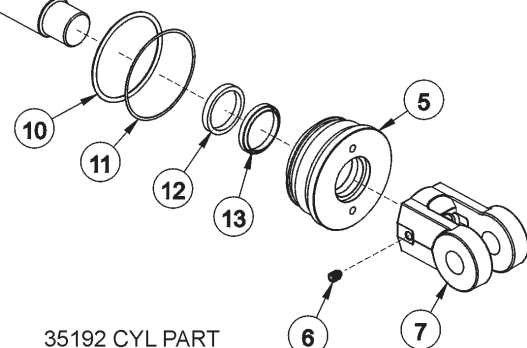
4" WELDED CYLINDER PARTS



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



WELDED CYL SECTION



35192 CYL PART

PISTON NUT

	<u>TORQUE</u>
NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

ROD CLEVIS SET SCREW

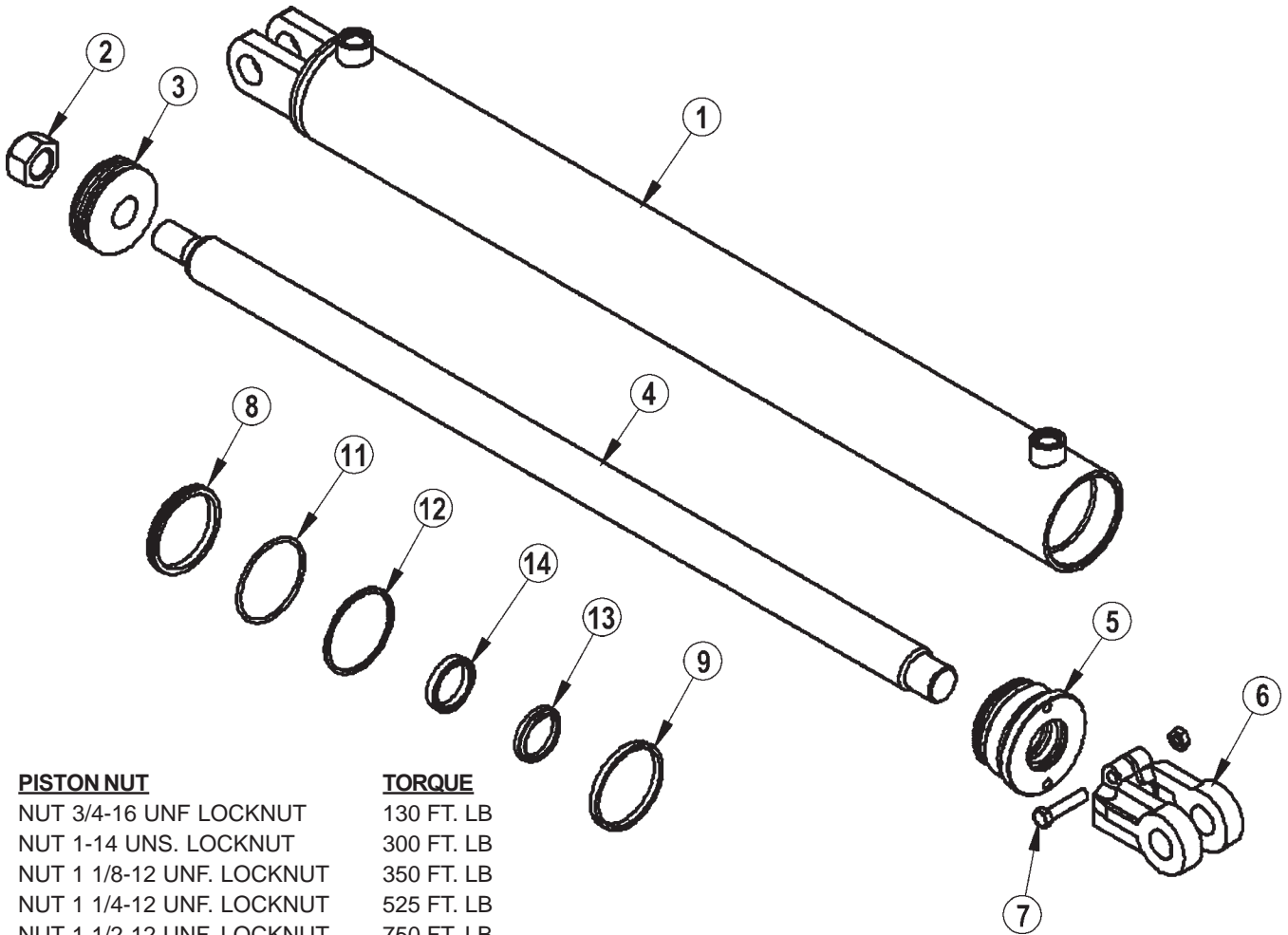
	<u>TORQUE</u>
3/8-16 UNC	20 FT. LB

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

ITEM	PART NO.	QTY.	DESCRIPTION
*	35192	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	34911	1	TUBE WELDMENT
2	34916	1	LOCKNUT
3	34913	1	PISTON
4	34914	1	CYLINDER ROD
5	34912	1	CYLINDER HEAD
6	34905	1	SET SCREW
7	34915	1	ROD CLEVIS
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	34917	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

5" x 20" WELDED CYLINDER PARTS



PISTON NUT

NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

TORQUE

ROD CLEVIS SET SCREW

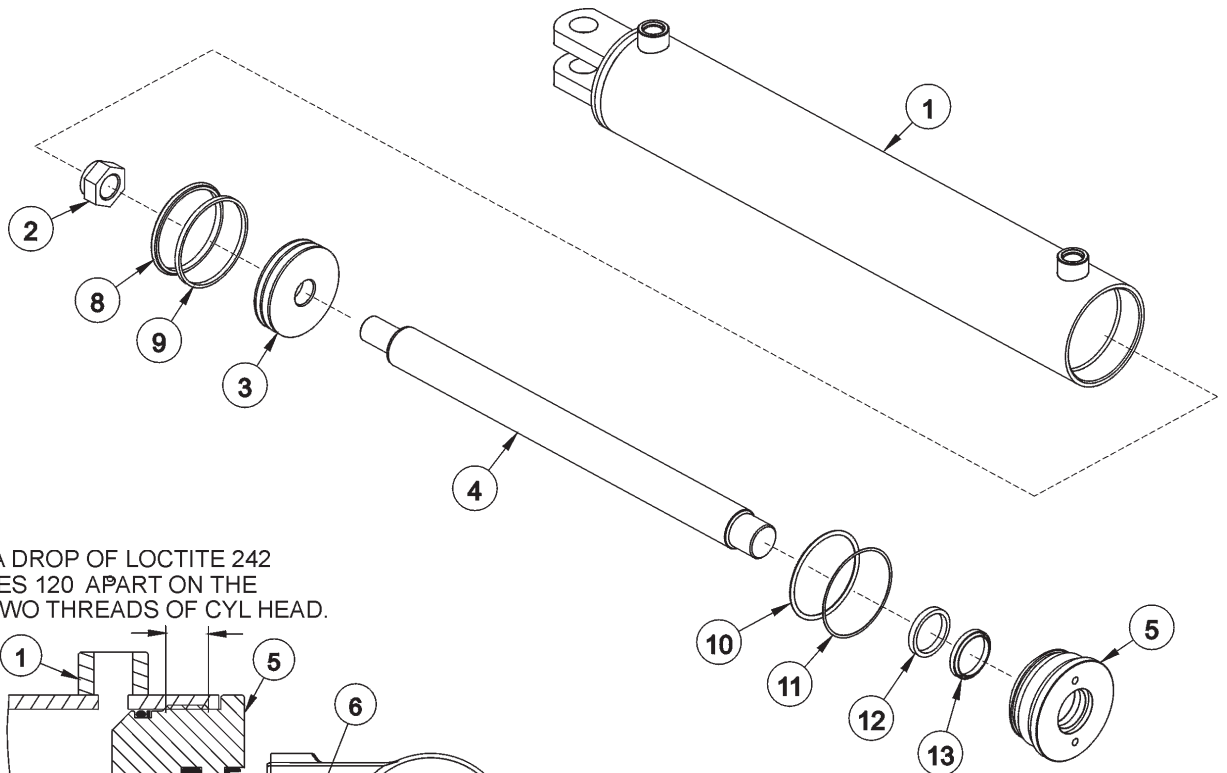
3/8-16 UNC	20 FT. LB
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TORQUE

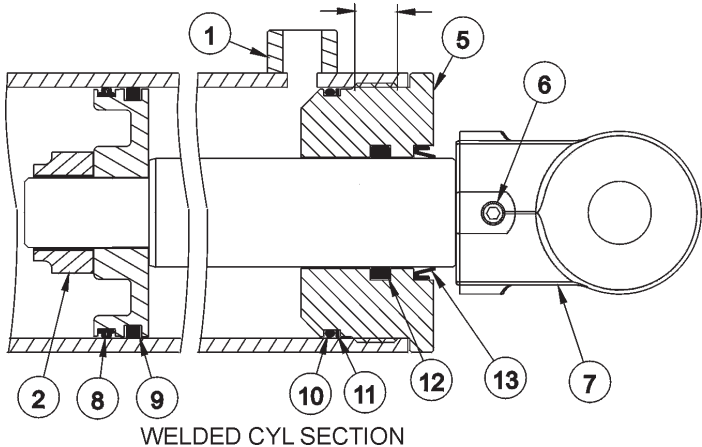
ITEM	PART NO.	QTY.	DESCRIPTION
*	33196	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	06501514	1	TUBE WELDMENT
2	06501520	1	LOCKNUT
3	06501516	1	PISTON
4	06501517	1	CYLINDER ROD
5	06501515	1	CYLINDER HEAD
6	06501518	1	ROD CLEVIS
7	06501519	1	SET SCREW
8	*	1	PISTON SEAL
9	*	1	PISTON WEAR RING
11	*	1	O - RING
12	*	1	END CAP BACKUP WASHER
13	*	1	ROD DUST SEAL
14	*	1	ROD WIPER SEAL
15	06501521	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

3 1/2" WELDED CYLINDER PARTS



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



WELDED CYL SECTION

35194 CYL PART

PISTON NUT

	<u>TORQUE</u>
NUT 3/4-16 UNF LOCKNUT	130 FT. LB
NUT 1-14 UNS. LOCKNUT	300 FT. LB
NUT 1 1/8-12 UNF. LOCKNUT	350 FT. LB
NUT 1 1/4-12 UNF. LOCKNUT	525 FT. LB
NUT 1 1/2-12 UNF. LOCKNUT	750 FT. LB

ROD CLEVIS SET SCREW

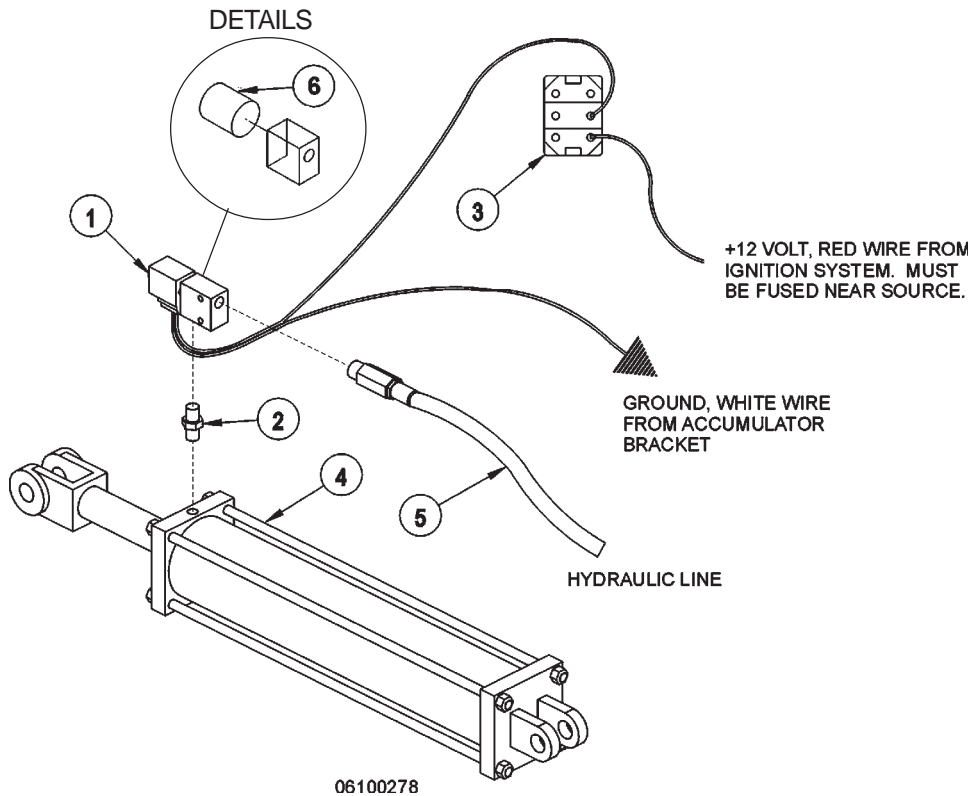
	<u>TORQUE</u>
3/8-16 UNC	20 FT. LB

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

ITEM	PART NO.	QTY.	DESCRIPTION
*	35194	AVAIL	HYDRAULIC CYLINDER COMPLETE
1	34907	1	TUBE WELDMENT
2	34906	1	LOCKNUT
3	34909	1	PISTON
4	34910	1	CYLINDER ROD
5	34908	1	CYLINDER HEAD
8	*	1	PISTON SEAL
9	*	1	WEAR RING
10	*	1	O - RING
11	*	1	BACKUP SEAL
12	*	1	ROD SEAL
13	*	1	ROD WIPER
14	34919	AVAIL	SEAL REPAIR KIT (INCLUDES ITEM 8 THRU 13)

NOTE - ALL SEALS AND WEAR RINGS MUST BE PURCHASED IN COMPLETE SEAL REPAIR KIT.

BOOM TRAVEL LOCK



Danfoss Switch Box



Husco Switch Box



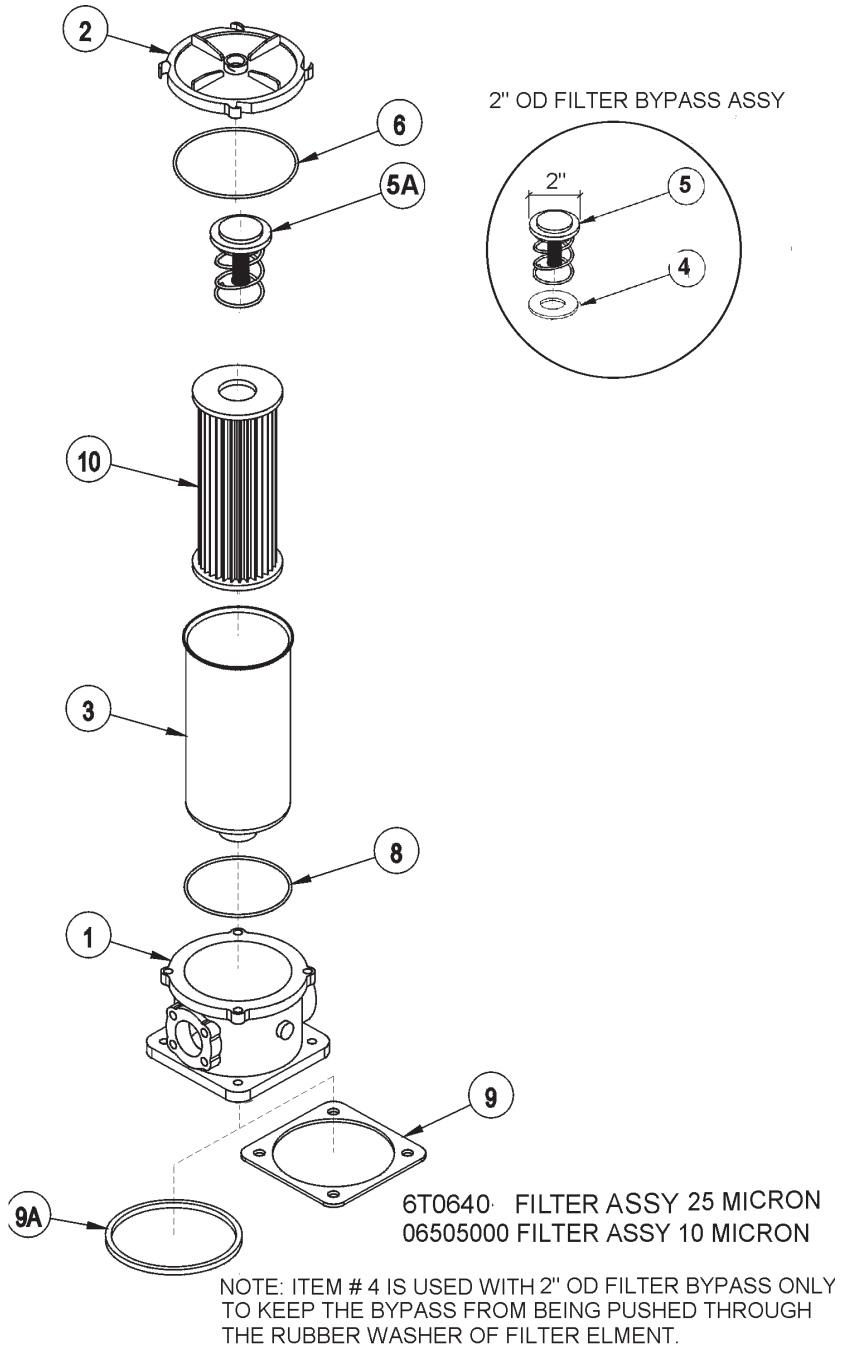
OLDER UNITS ONLY, SWITCH ON NEWER MODELS IN SWITCHBOX

Refer to your switchbox before drilling hole or wiring.

For cab units, drill a hole in an open area on the right side of the dash panel and install the toggle switch. For non-cab units, use the mounting bracket included to install the toggle switch on the under side of the valve stand. Install the decal for the toggle switch operation directly by the toggle switch.

ITEM	PART NO.	QTY.	DESCRIPTION
1	31328	1	HYDRAULIC TRAVEL LOCK VALVE
2	31329	1	ADAPTER - STANDARD BOOM
2A	31611	OPT.	ADAPTER - EXTENDED BOOM
3	34532	1	SWITCH, TRAVEL LOCK
4	*	REF.	MAIN BOOM CYLINDER - REFER OT BOOM ASY
5	*	REF.	HOSE / FITTINGS - REFER TO BOOM ASY
6	34796	1	COIL, TRAVEL LOCK

RESERVOIR IN - TANK FILTER ASSY, PIPE

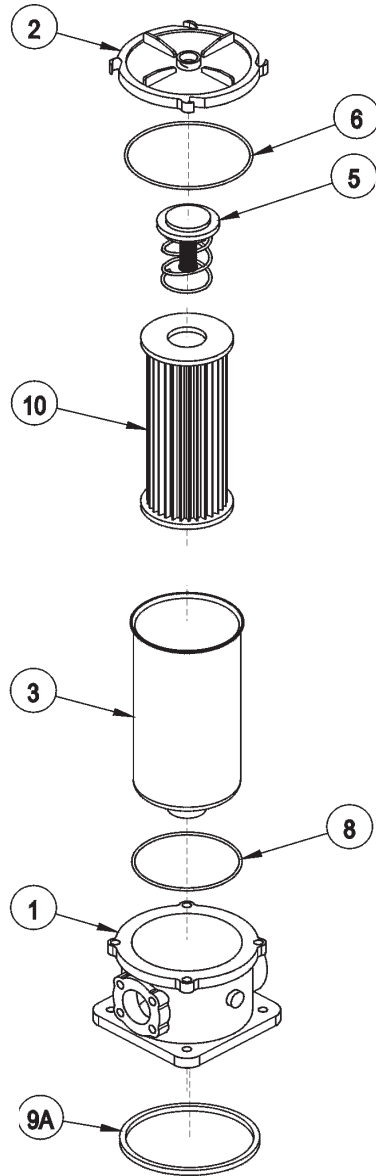


RESERVOIR IN - TANK FILTER ASSY, PIPE

ITEM	PART NO.	QTY.	DESCRIPTION
	6T0640	AVAIL	FILTER ASSY NPTE, 25 MICRON
1	6T0641	1	FILTER BODY NPTE
2	6T0642	1	FILTER COVER
3	6T0643	1	FILTER BOWL
4	06505002	1	WASHER
5	6T0651	1	FILTER BYPASS
5A	06505003	1	FILTER BYPASS, ZINGA
6	6T0645	1	SEAL - COVER TO BODY
8	6T0648	1	SEAL - BOWL TO BODY
9	32885	1	SQUARE SEAL - BODY TO TANK
9A	6T0646	AVAIL	ROUND SEAL - BODY TO TANK
10	6T0650	1	FILTER ELEMENT 25 MICRON PAPER

ITEM	PART NO.	QTY.	DESCRIPTION
	06505000	AVAIL	FILTER ASSY NPTE, 10 MICRON
1	6T0641	1	FILTER BODY NPTE
2	6T0642	1	FILTER COVER
3	6T0643	1	FILTER BOWL
4	06505002	1	WASHER
5	6T0651	1	FILTER BYPASS
5A	06505003	1	FILTER BYPASS, ZINGA
6	6T0645	1	SEAL - COVER TO BODY
8	6T0648	1	SEAL - BOWL TO BODY
9A	6T0646	AVAIL	ROUND SEAL - BODY TO TANK
10	35259	1	FILTER ELEMENT 10 MICRON SYNTHETIC

RESERVOIR IN - TANK FILTER ASSY, SAE



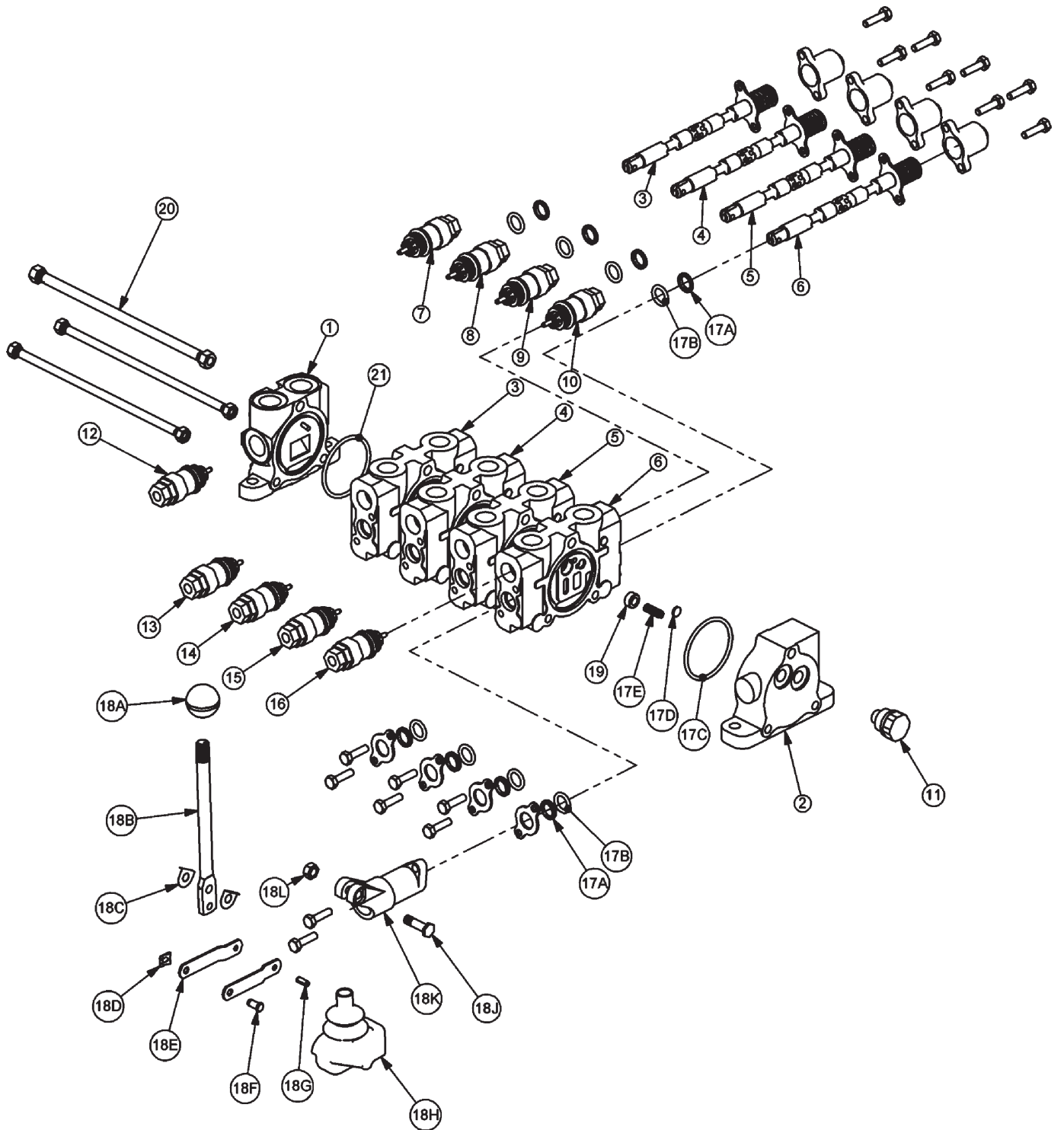
34066 FILTER ASSY 25 MICRON
35269 FILTER ASSY 10 MICRON

RESERVOIR IN - TANK FILTER ASSY, SAE

ITEM	PART NO.	QTY.	DESCRIPTION
	34066	AVAIL	FILTER ASSY SAE 25 MICRON
1	06505001	1	FILTER BODY SAE
2	6T0642	1	FILTER COVER
3	6T0643	1	FILTER BOWL
5	06505003	1	FILTER BYPASS, ZINGA
6	6T0645	1	SEAL - COVER TO BODY
8	6T0648	1	SEAL - BOWL TO BODY
9A	6T0646	AVAIL	ROUND SEAL - BODY TO TANK
10	6T0650	1	FILTER ELEMENT 25 MICRON PAPER

ITEM	PART NO.	QTY.	DESCRIPTION
	35269	AVAIL	FILTER ASSY SAE 10 MICRON
1	06505001	1	FILTER BODY SAE
2	6T0642	1	FILTER COVER
3	6T0643	1	FILTER BOWL
5	06505003	1	FILTER BYPASS, ZINGA
6	6T0645	1	SEAL - COVER TO BODY
8	6T0648	1	SEAL - BOWL TO BODY
9A	6T0646	AVAIL	ROUND SEAL - BODY TO TANK
10	35259	1	FILTER ELEMENT 10 MICRON SYNTHETIC

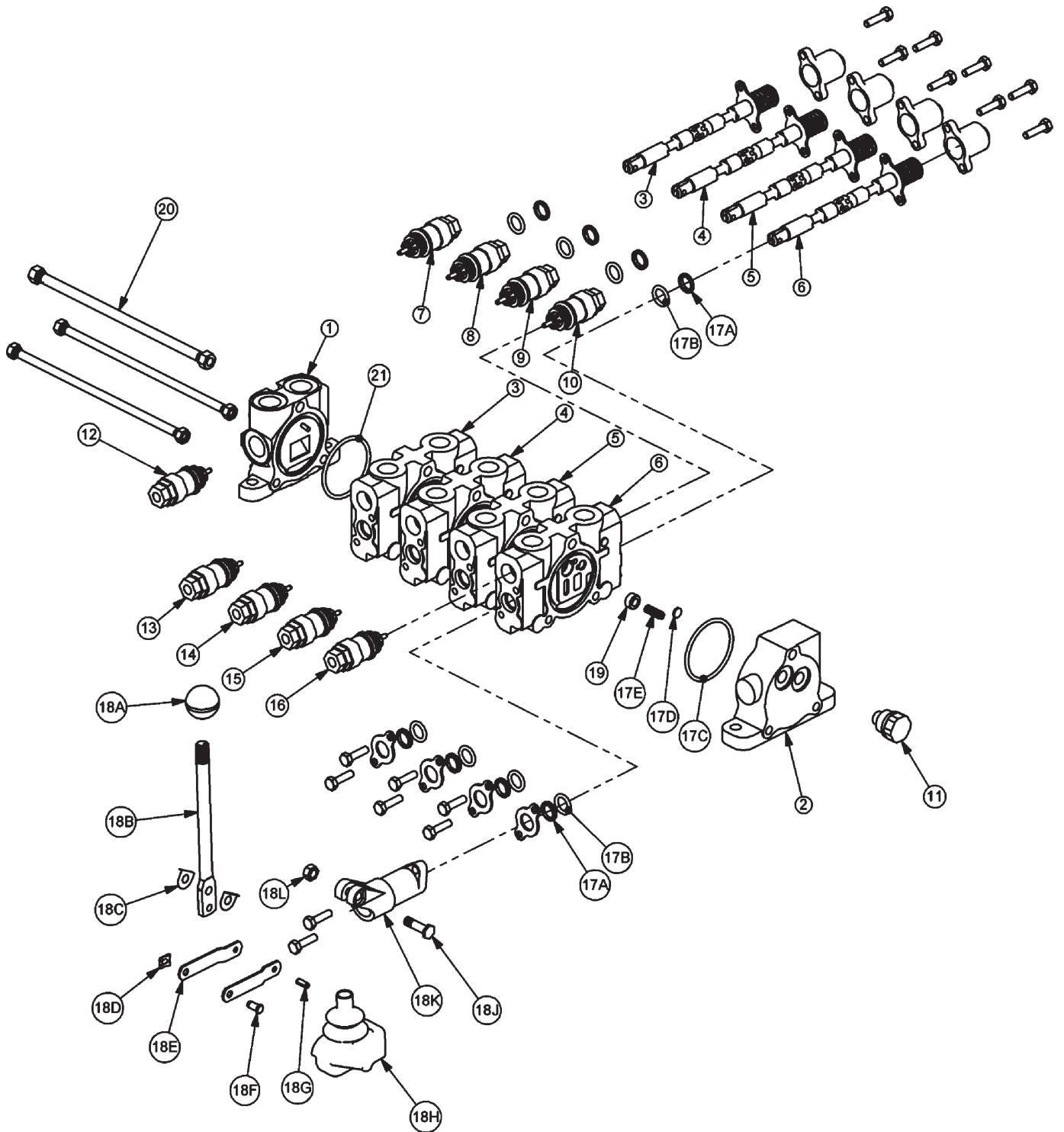
4 SP HUSCO - LOAD SENSE (31041)



4 SP HUSCO - LOAD SENSE (31041)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED)
7	06503067	1	RELIEF PLUG
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	06503068	1	RELIEF PLUG
12	6T4209	1	RELIEF PLUG
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SHUTTLE DISC
17E		1	SPRING
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	31603	4	COMPENSATOR
20	TB1017U	1	TIE ROD KIT
21	24214	1	O-RING, LARGE

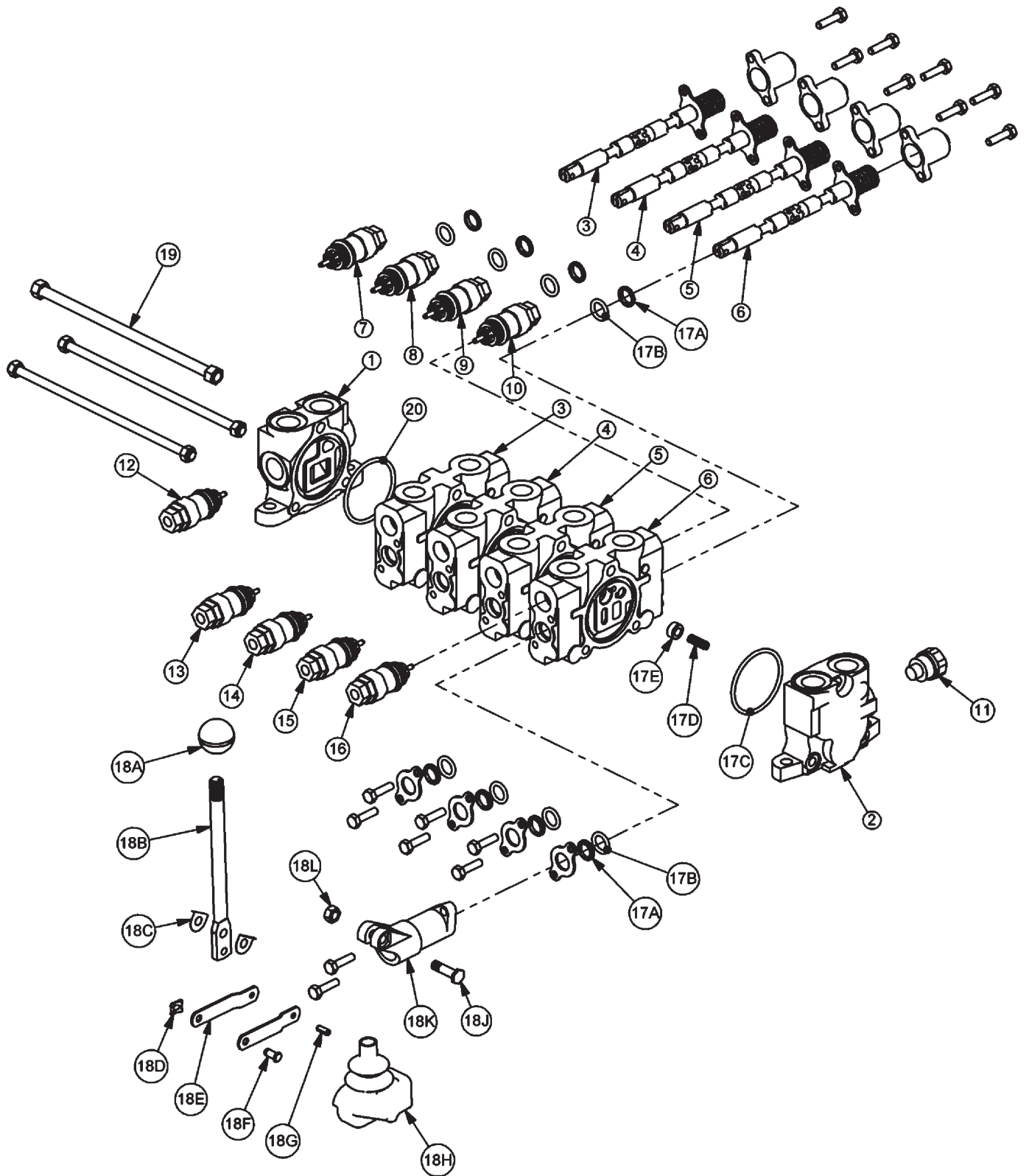
4 SP HUSCO - LOAD SENSE (31158)



4 SP HUSCO - LOAD SENSE (31158)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED)
7	06503067	1	RELIEF PLUG
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	06503068	1	RELIEF PLUG
12	6T4209	1	RELIEF PLUG
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SHUTTLE DISC
17E		1	SPRING
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	31603	4	COMPENSATOR
20	TB1017U	1	TIE ROD KIT
21	24214	1	O-RING, LARGE

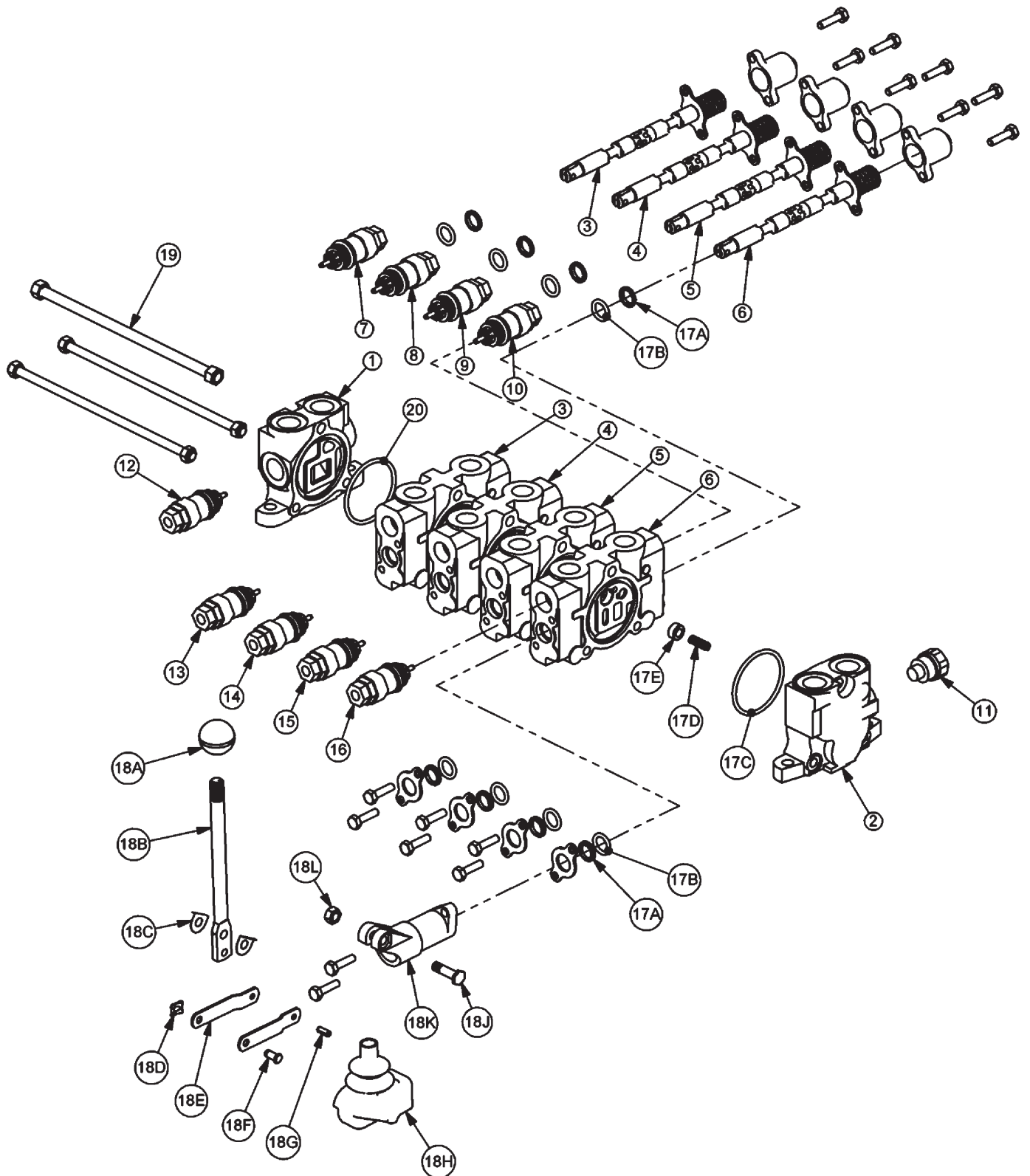
4 SP HUSCO - POWER BEYOND (31751)



4 SP HUSCO - POWER BEYOND (31751)

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	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TF3009	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
6	TB1017Q	1	VALVE SECTION (DOUBLE ACTING, SPRING METERED)
7	N/A	-	N/A
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	TB1017M	1	SHUT-OFF PLUG
12	06502037	1	RELIEF VALVE, 2600 PSI
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	TB1017A	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SPRING
17E		1	PUCKET
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	TB1017U	1	TIE ROD KIT
20	24214	1	O-RING, LARGE

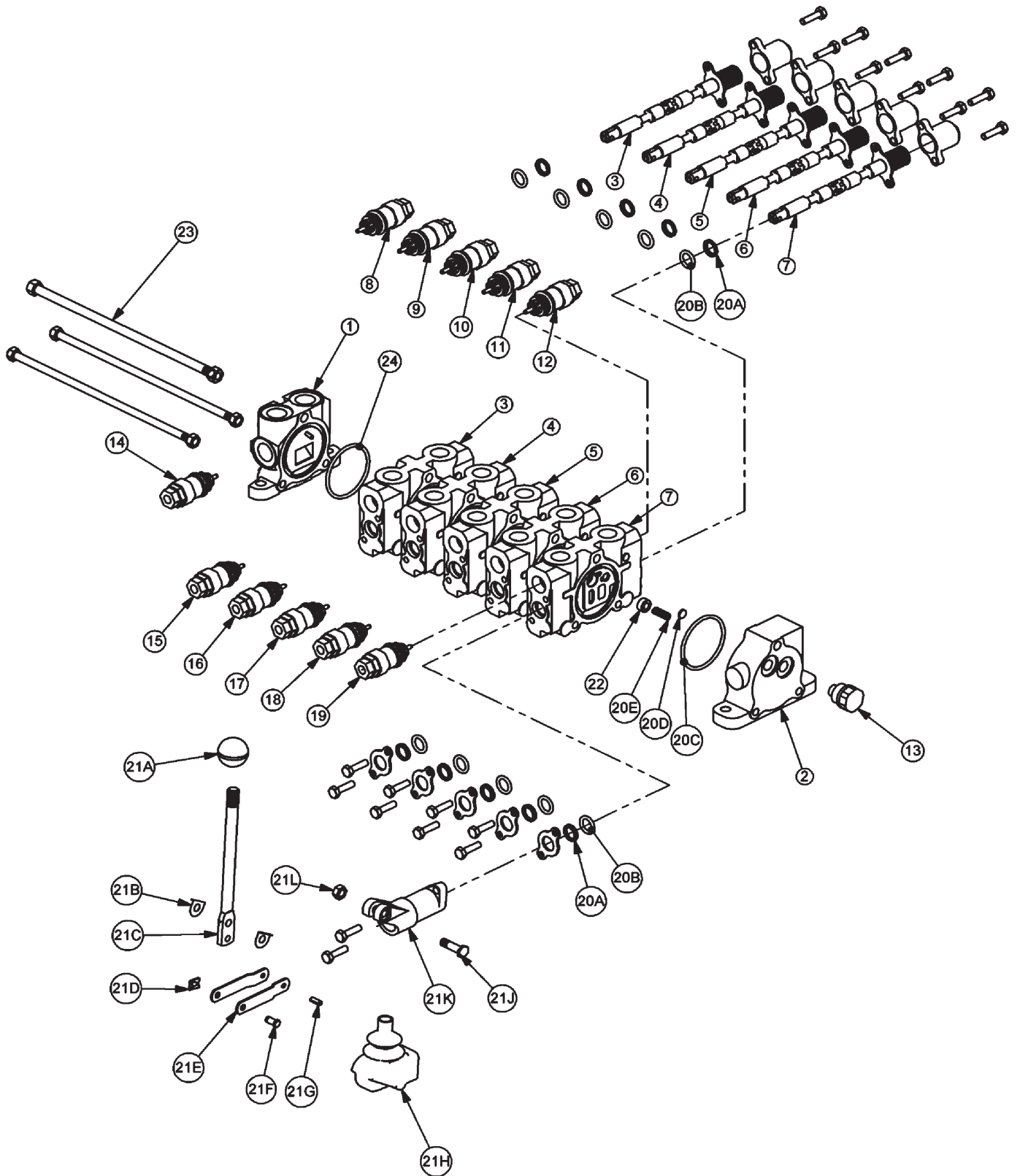
4 SP HUSCO - POWER BEYOND (31753)



4 SP HUSCO - POWER BEYOND (31753)

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	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	TB1017Q	1	VALVE SECTION (DOUBLE ACTING, SPRING METERED)
7	N/A	-	N/A
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	TB1017M	1	SHUT-OFF PLUG
12	06502037	1	RELIEF VALVE, 2600 PSI
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	TB1017A	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SPRING
17E		1	PUCKET
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	TB1017U	1	TIE ROD KIT
20	24214	1	O-RING, LARGE

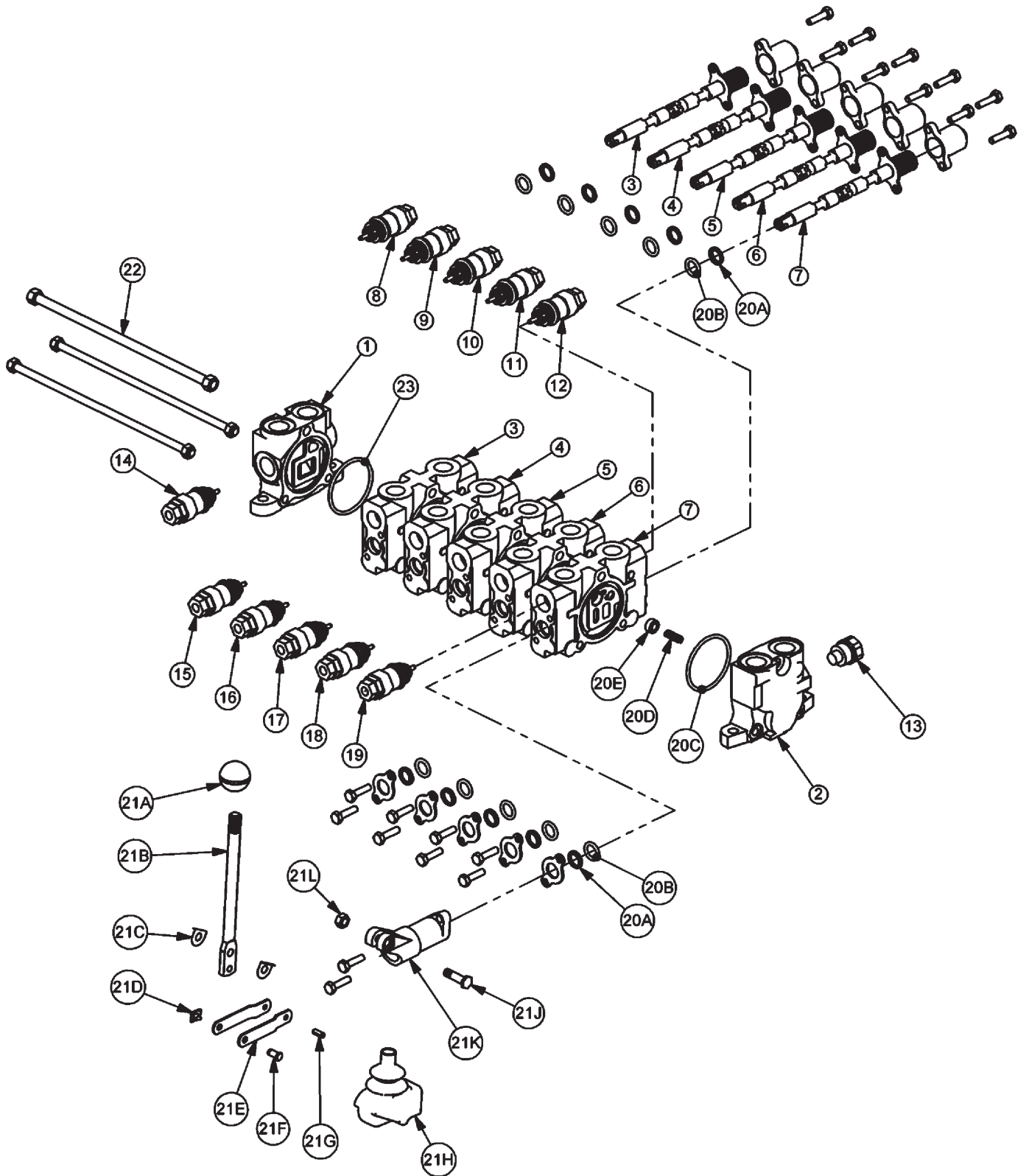
5 SP HUSCO - LOAD SENSE (34184)



5 SP HUSCO - LOAD SENSE (34184)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED)
7	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
8	06503067	1	RELIEF PLUG
9	TB1017K	1	RELIEF VALVE, 2150 PSI
10	TB1017J	1	RELIEF VALVE, 1800 PSI
11	TB1017H	1	RELIEF VALVE, 1750 PSI
12	22588	1	RELIEF VALVE, 500 PSI
13	06503068	1	RELIEF PLUG
14	6T4209	1	RELIEF PLUG
15	06502003	1	RELIEF VALVE, 2500 PSI
16	TB1017F	1	RELIEF VALVE, 1500 PSI
17	TB1017F	1	RELIEF VALVE, 1500 PSI
18	TB1017H	1	RELIEF VALVE, 1750 PSI
19	22588	1	RELIEF VALVE, 500 PSI
20	31593	5	VALVE SEAL KIT (FOR ONE SECTION)
20A		2	WIPER
20B		2	O-RING SMALL
20C		1	O-RING LARGE
20D		1	SHUTTLE DISC
20E		1	SPRING
21	TB1017L	5	LEVER KIT (FOR ONE SECTION)
21A		1	LEVER KNOB
21B		1	LEVER
21C		2	LEVER WASHER
21D		1	LEVER CLIP
21E		2	LINKAGE
21F		1	LEVER PIN
21G		1	ROLL PIN
21H		1	LEVER BOOT
21J		1	LEVER BOLT
21K		1	LEVER DUST COVER
21L		1	LEVER NUT
22	31603	5	COMPENSATOR
23	TB1017V	1	TIE ROD KIT
24	24214	1	O-RING, LARGE

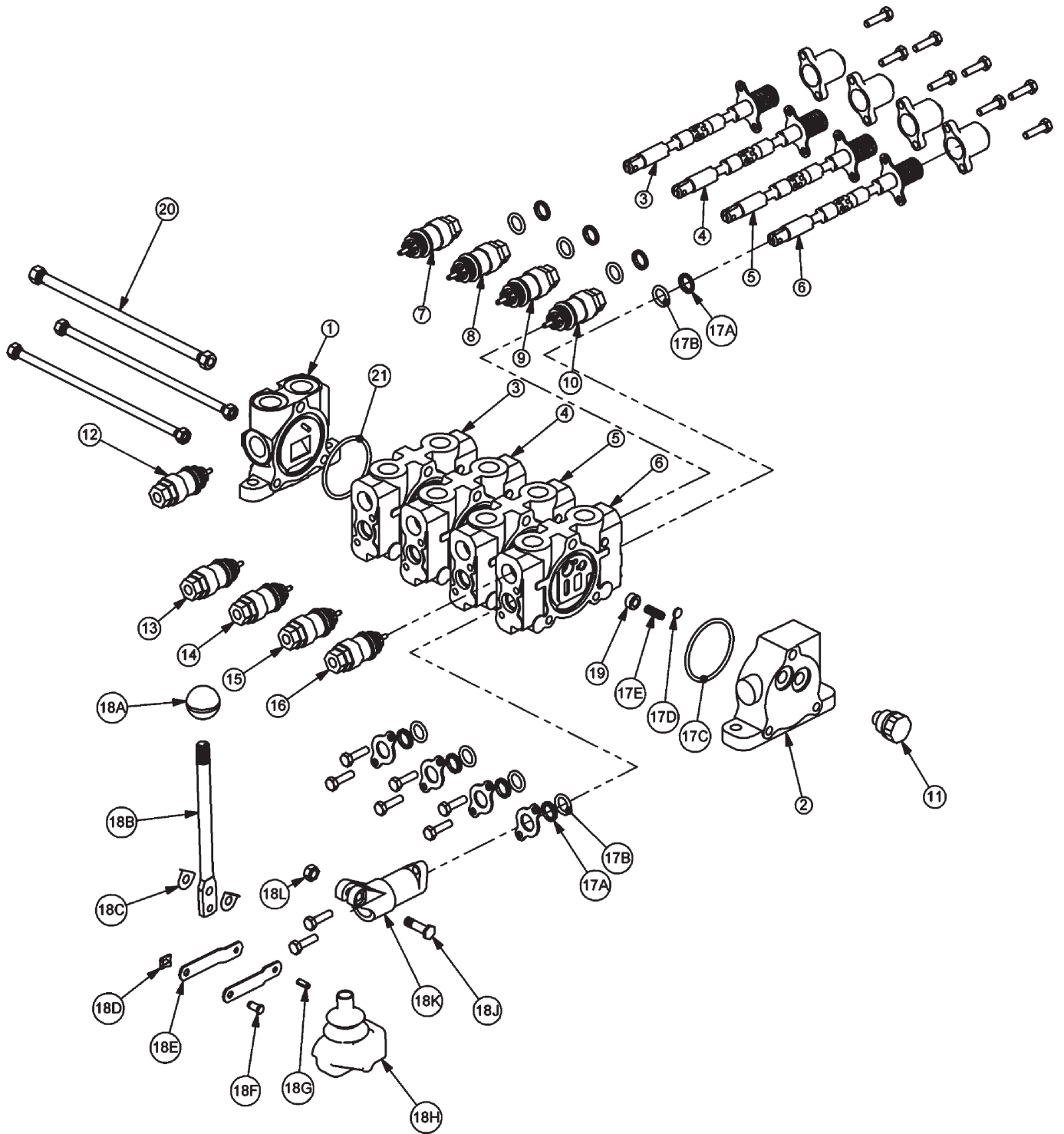
5 SP HUSCO - POWER BEYOND (33500)



5 SP HUSCO - POWER BEYOND (33500)

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	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	TB1017Q	1	VALVE SECTION (DOUBLE ACTING, SPRING METERED)
7	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
8	N/A	-	N/A
9	TB1017K	1	RELIEF VALVE, 2150 PSI
10	TB1017J	1	RELIEF VALVE, 1800 PSI
11	TB1017H	1	RELIEF VALVE, 1750 PSI
12	22588	1	RELIEF VALVE, 500 PSI
13	TB1017M	1	SHUT-OFF PLUG
14	06502037	1	RELIEF VALVE, 2600 PSI
15	06502003	1	RELIEF VALVE, 2500 PSI
16	TB1017F	1	RELIEF VALVE, 1500 PSI
17	TB1017F	1	RELIEF VALVE, 1500 PSI
18	TB1017H	1	RELIEF VALVE, 1750 PSI
19	22588	1	RELIEF VALVE, 500 PSI
20	TB1017A	5	VALVE SEAL KIT (FOR ONE SECTION)
20A		2	WIPER
20B		2	O-RING SMALL
20C		1	O-RING LARGE
20D		1	SPRING
20E		1	PUCKET
21	TB1017L	5	LEVER KIT (FOR ONE SECTION)
21A		1	LEVER KNOB
21B		1	LEVER
21C		2	LEVER WASHER
21D		1	LEVER CLIP
21E		2	LINKAGE
21F		1	LEVER PIN
21G		1	ROLL PIN
21H		1	LEVER BOOT
21J		1	LEVER BOLT
21K		1	LEVER DUST COVER
21L		1	LEVER NUT
22	TB1017V	1	TIE ROD KIT
23	24214	1	O-RING, LARGE

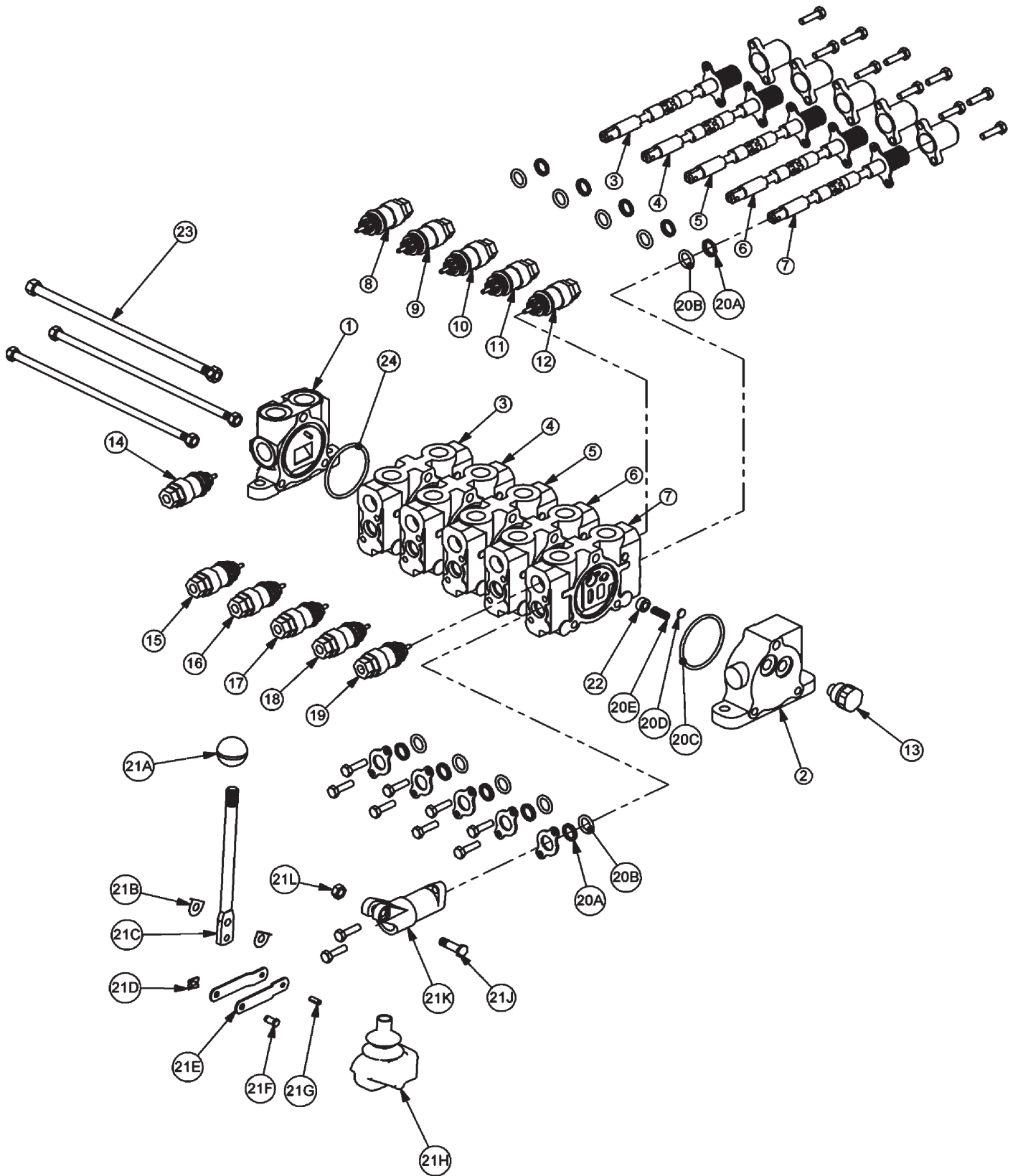
4 SP HUSCO - LOAD SENSE (06502045)



4 SP HUSCO - LOAD SENSE (06502045)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) (REMOVE SHUTTLE DISC)
7	06503067	1	RELIEF PLUG
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	06503068	1	RELIEF PLUG
12	6T4209	1	RELIEF PLUG
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SHUTTLE DISC
17E		1	SPRING
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	31603	4	COMPENSATOR
20	TB1017U	1	TIE ROD KIT
21	24214	1	O-RING, LARGE

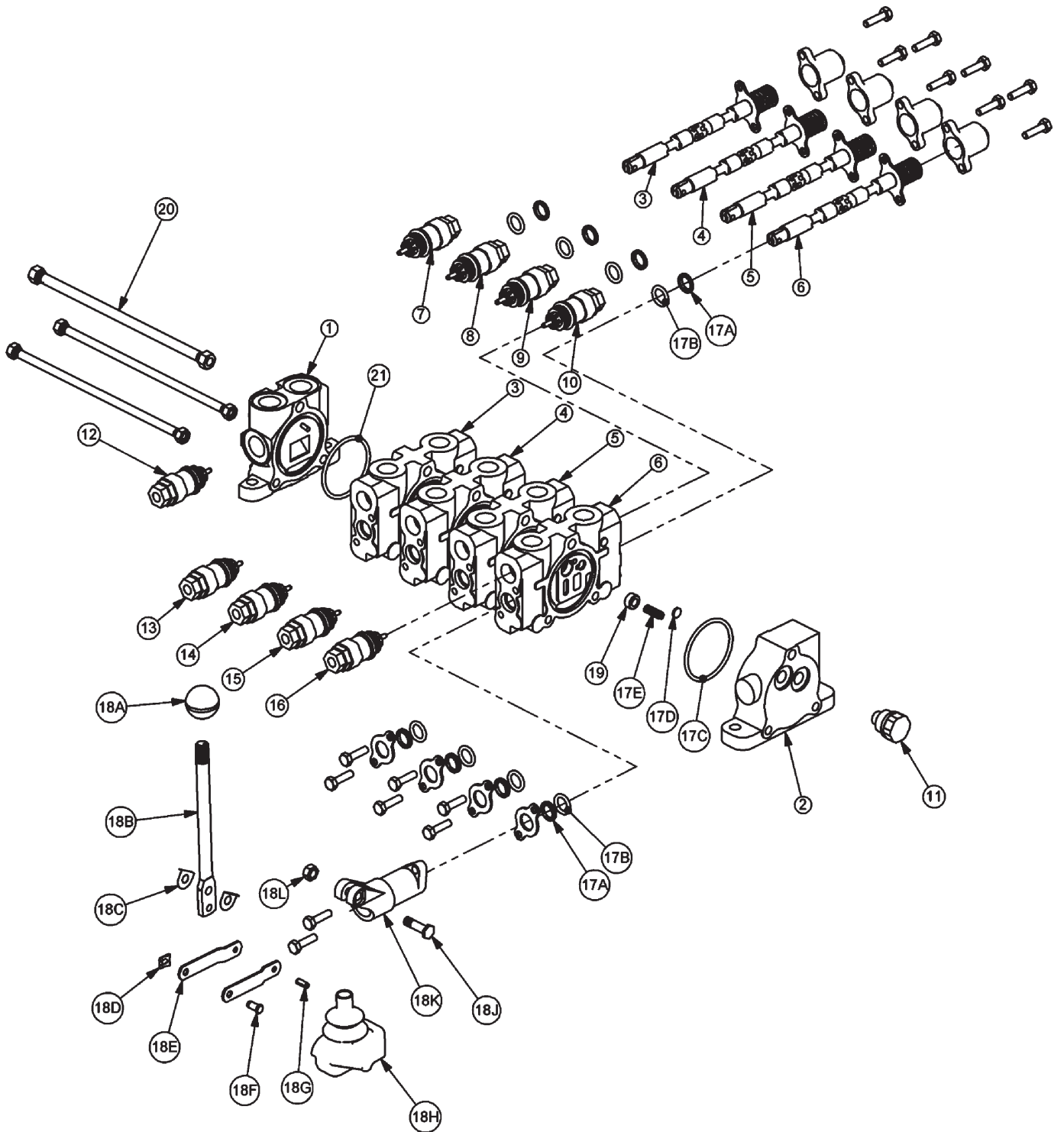
5 SP HUSCO - LOAD SENSE (06502047)



5 SP HUSCO - LOAD SENSE (06502047)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED)
7	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)
8	06503067	1	RELIEF PLUG
9	TB1017K	1	RELIEF VALVE, 2150 PSI
10	TB1017J	1	RELIEF VALVE, 1800 PSI
11	TB1017H	1	RELIEF VALVE, 1750 PSI
12	22588	1	RELIEF VALVE, 500 PSI
13	06503068	1	RELIEF PLUG
14	6T4209	1	RELIEF PLUG
15	06502003	1	RELIEF VALVE, 2500 PSI
16	TB1017F	1	RELIEF VALVE, 1500 PSI
17	TB1017F	1	RELIEF VALVE, 1500 PSI
18	TB1017H	1	RELIEF VALVE, 1750 PSI
19	22588	1	RELIEF VALVE, 500 PSI
20	31593	5	VALVE SEAL KIT (FOR ONE SECTION)
20A		2	WIPER
20B		2	O-RING SMALL
20C		1	O-RING LARGE
20D		1	SHUTTLE DISC
20E		1	SPRING
21	TB1017L	5	LEVER KIT (FOR ONE SECTION)
21A		1	LEVER KNOB
21B		1	LEVER
21C		2	LEVER WASHER
21D		1	LEVER CLIP
21E		2	LINKAGE
21F		1	LEVER PIN
21G		1	ROLL PIN
21H		1	LEVER BOOT
21J		1	LEVER BOLT
21K		1	LEVER DUST COVER
21L		1	LEVER NUT
22	31603	5	COMPENSATOR
23	TB1017V	1	TIE ROD KIT
24	24214	1	O-RING, LARGE

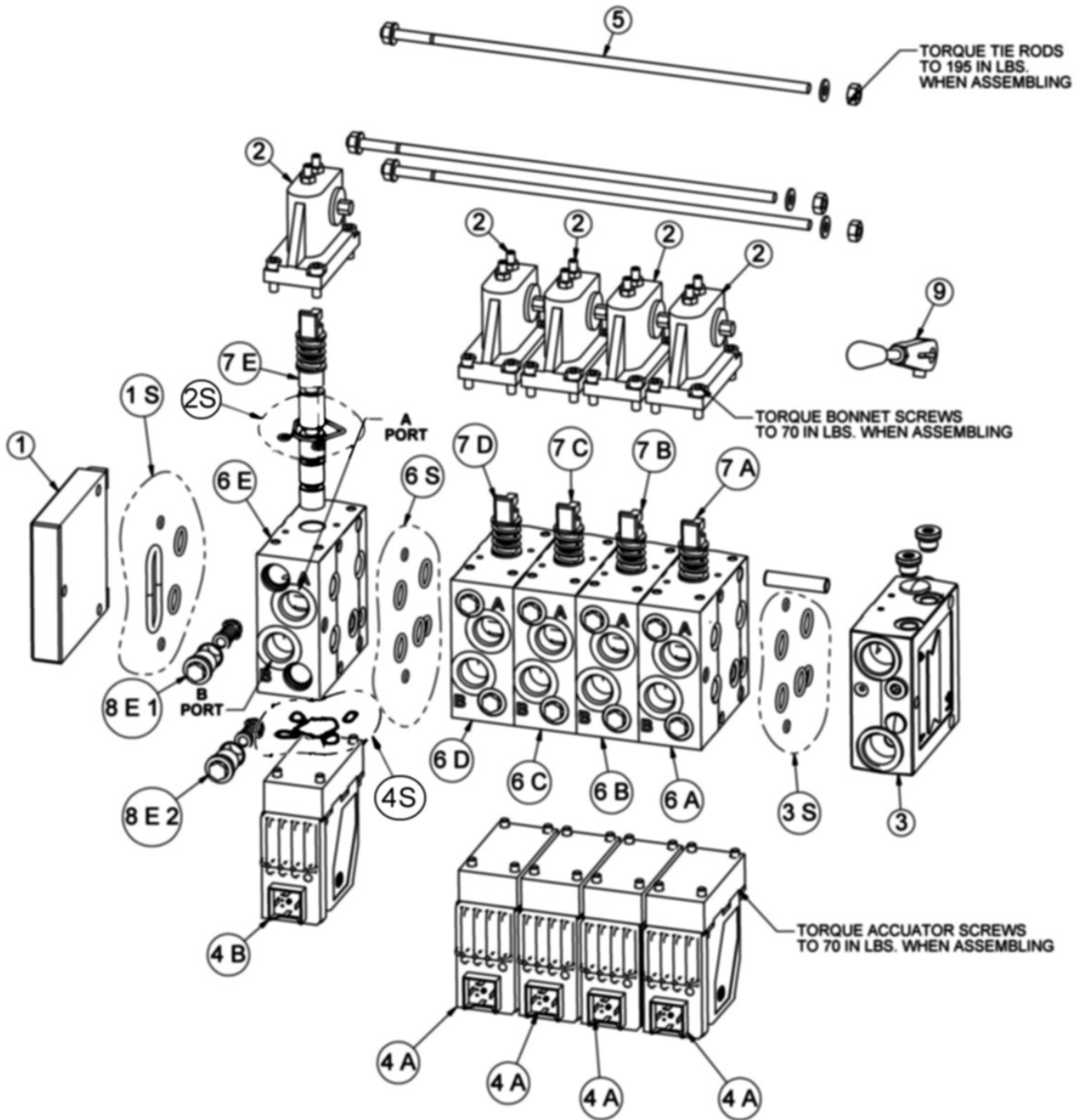
4 SP HUSCO - LOAD SENSE (06502039)



4 SP HUSCO - LOAD SENSE (06502039)

ITEM	PART NO.	QTY	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) (REMOVE SHUTTLE DISC)
7	06503067	1	RELIEF PLUG
8	TB1017K	1	RELIEF VALVE, 2150 PSI
9	TB1017J	1	RELIEF VALVE, 1800 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	06503068	1	RELIEF PLUG
12	6T4209	1	RELIEF PLUG
13	06502003	1	RELIEF VALVE, 2500 PSI
14	TB1017F	1	RELIEF VALVE, 1500 PSI
15	TB1017F	1	RELIEF VALVE, 1500 PSI
16	TB1017H	1	RELIEF VALVE, 1750 PSI
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)
17A		2	WIPER
17B		2	O-RING SMALL
17C		1	O-RING LARGE
17D		1	SHUTTLE DISC
17E		1	SPRING
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)
18A		1	LEVER KNOB
18B		1	LEVER
18C		2	LEVER WASHER
18D		1	LEVER CLIP
18E		2	LINKAGE
18F		1	LEVER PIN
18G		1	ROLL PIN
18H		1	LEVER BOOT
18J		1	LEVER BOLT
18K		1	LEVER DUST COVER
18L		1	LEVER NUT
19	31603	4	COMPENSATOR
20	TB1017U	1	TIE ROD KIT
21	24214	1	O-RING, LARGE

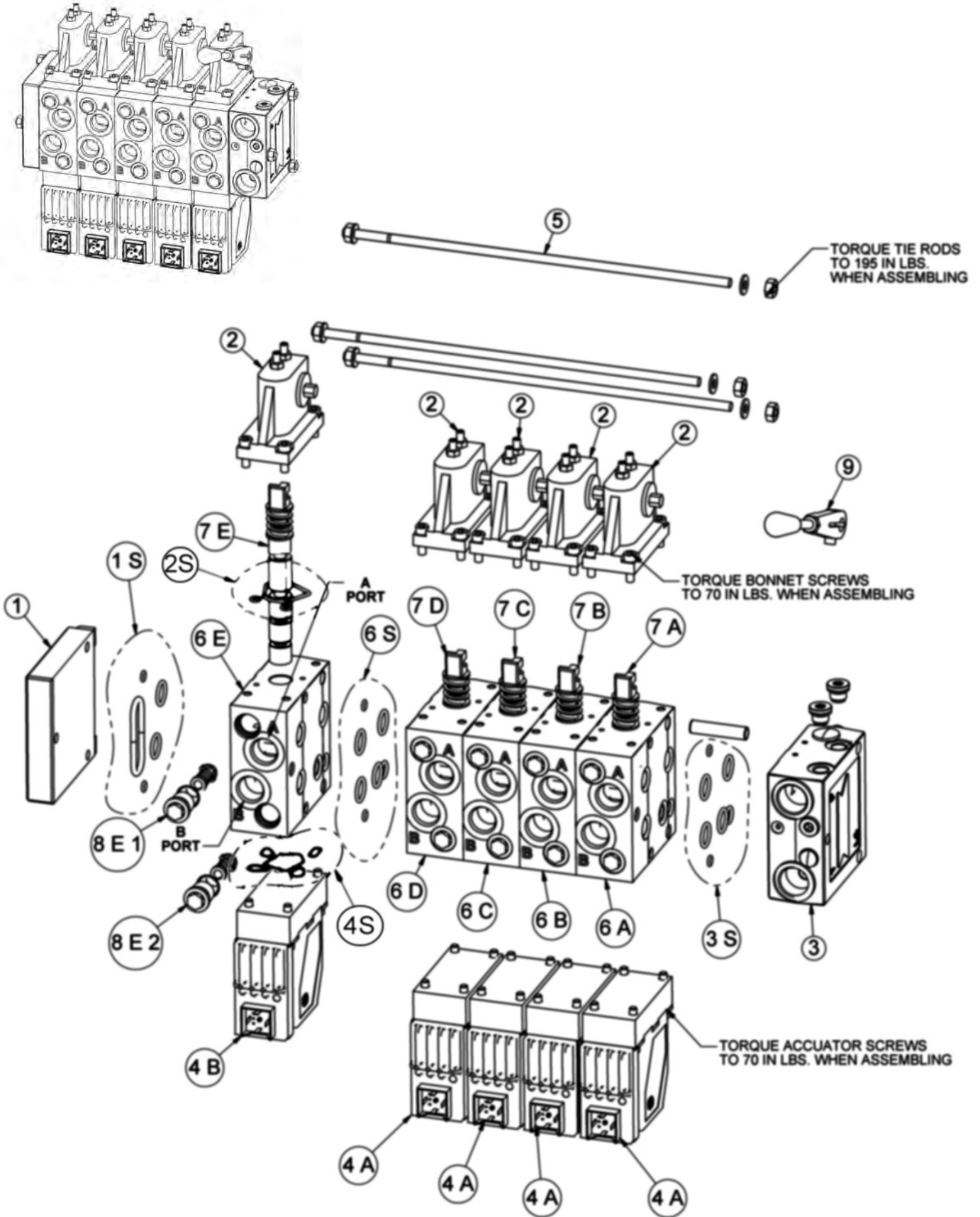
4 SP DANFOSS - LOAD SENSE (32001)



4 SP DANFOSS - LOAD SENSE (32001)

ITEM	PART NO.	QTY.	DESCRIPTION
	32001		VLV,5SP,32PVG
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	*	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	33459	1	MAIN BOOM BONNET
2B	06502073	1	SECONDARY BOOM BONNET
2B	06502073	1	DECK ROLL BONNET
2B	06502073	1	BOOM SWIVEL BONNET
2B	NA	*	NA
3	34308	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4	*	5	ELECTRONIC ACCUATOR
4S	34030	1	ELECTRONIC ACCUATOR SEAL KIT
4A	4243906	1	MAIN BOOM ELECTRONIC ACCUATOR
4A	4243906	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4A	4243906	1	DECK ROLL ELECTRONIC ACCUATOR
4A	4243906	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4B	NA	*	NA
5	42202	1	TIE-BOLT KIT
6	*	5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	NA	*	NA
7	*	5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL BOOM SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	NA	*	NA
8	*	10	ANTI CAV/SHOCK RELIEF
8A1	42650	1	MAIN BOOM A PORT RELIEF
8A2	06502069	1	MAIN BOOM B PORT RELIEF
8B1	42650	1	SEC BOOM A PORT RELIEF
8B2	42295	1	SEC BOOM B PORT RELIEF
8C1	42296	1	DECK ROLL A PORT RELIEF
8C2	42295	1	DECK ROLL B PORT RELIEF
8D1	42295	1	BOOM SWIVEL A PORT RELIEF
8D2	42295	1	BOOM SWIVEL B PORT RELIEF
8E1	NA	*	NA
8E2	NA	*	NA
9	33459	1	HANDLE

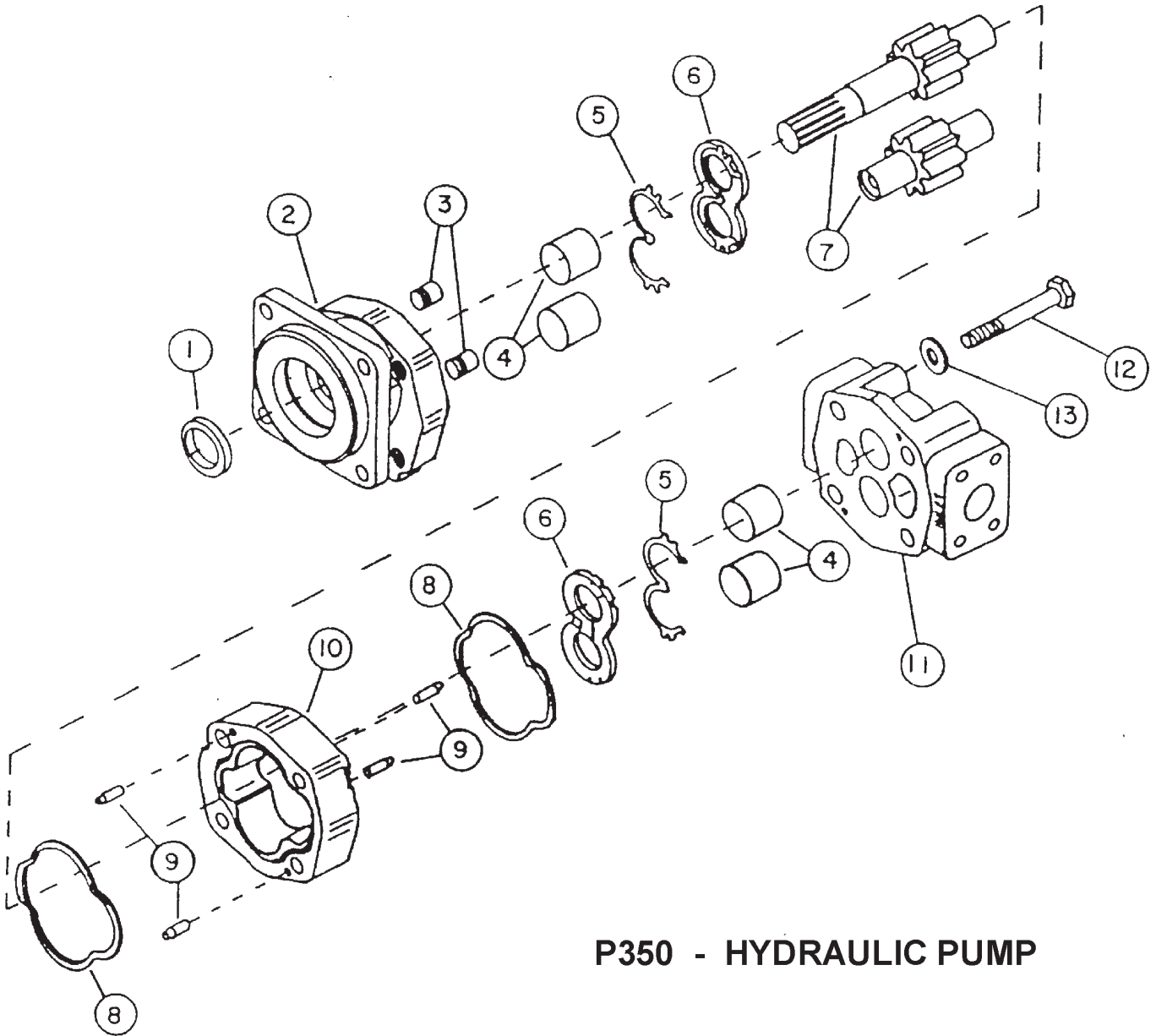
5 SP DANFOSS - LOAD SENSE (33291)



5 SP DANFOSS - LOAD SENSE (33291)

ITEM	PART NO.	QTY.	DESCRIPTION
	33291		VLV,5SP,32PVG
1	06502074	1	END PLATE
1S	06505013	1	END PLATE SEAL KIT
2	*	5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	33459	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2B	42197	1	DECK ROLL BONNET
2B	42197	1	BOOM SWIVEL BONNET
2B	42197	1	DECK SHIELD BONNET
3	34308	1	INLET SECTION
3S	06505013	1	INLET SECTION SEAL KIT
4	*	5	ELECTRONIC ACCUATOR
4S	34030	1	ELECTRONIC ACCUATOR SEAL KIT
4A	4243906	1	MAIN BOOM ELECTRONIC ACCUATOR
4A	4243906	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4A	4242206	1	DECK ROLL ELECTRONIC ACCUATOR
4A	4243906	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4B	42200	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6	*	5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	06502077	1	SHIELD SECTION
7	*	5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL BOOM SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8	*	10	ANTI CAV/SHOCK RELIEF
8A1	42650	1	MAIN BOOM A PORT RELIEF
8A2	06502069	1	MAIN BOOM B PORT RELIEF
8B1	42650	1	SEC BOOM A PORT RELIEF
8B2	42295	1	SEC BOOM B PORT RELIEF
8C1	42296	1	DECK ROLL A PORT RELIEF
8C2	42295	1	DECK ROLL B PORT RELIEF
8D1	42295	1	BOOM SWIVEL A PORT RELIEF
8D2	42295	1	BOOM SWIVEL B PORT RELIEF
8E1	06502069	1	DECK SHIELD A PORT RELIEF
8E2	06502069	1	DECK SHIELD B PORT RELIEF
9	33459	1	HANDLE

FRONT HYDRAULIC PUMP

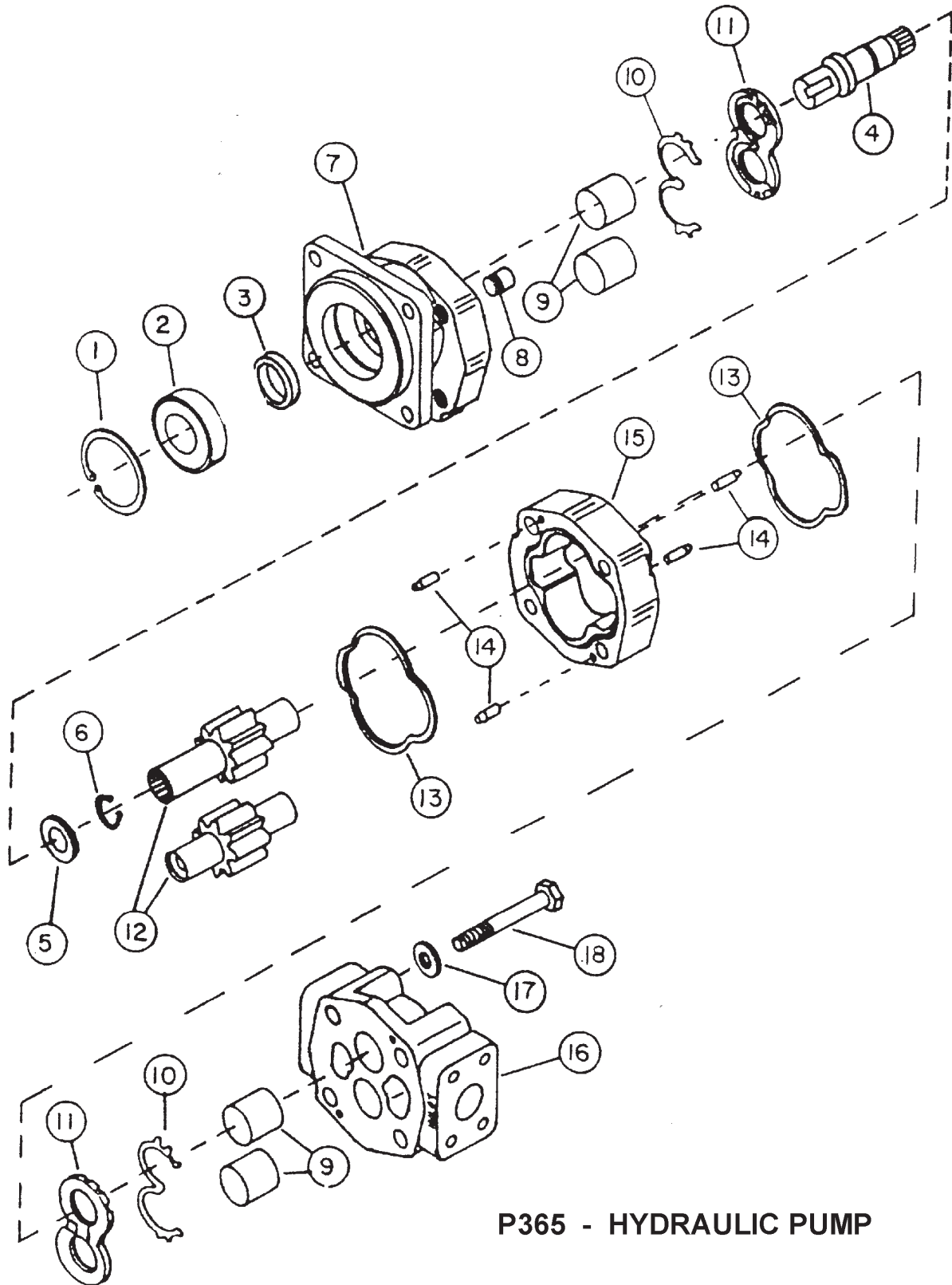


P350 - HYDRAULIC PUMP

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)

REAR HYDRAULIC PUMP

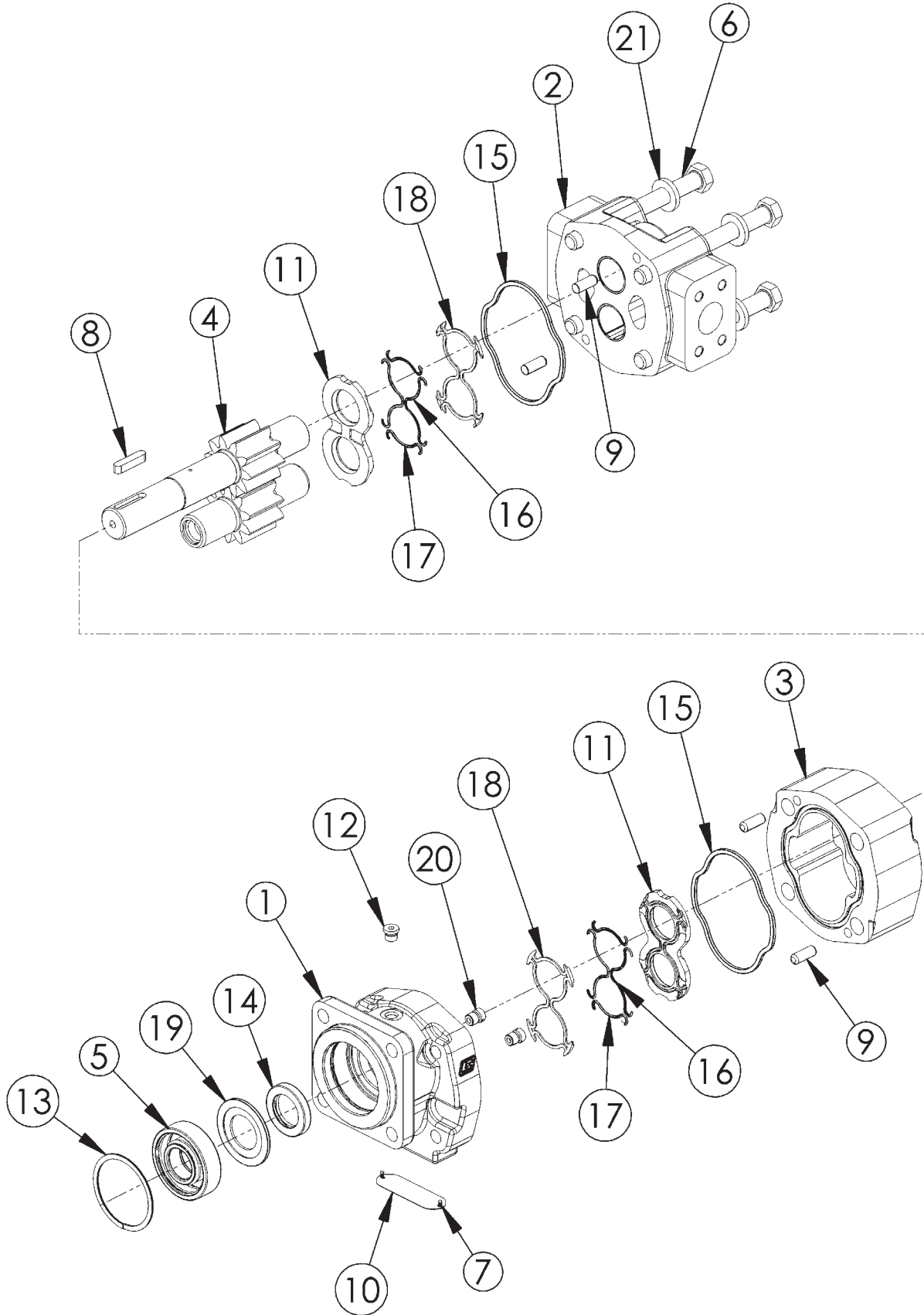


P365 - HYDRAULIC PUMP

REAR HYDRAULIC PUMP

ITEM	PART NO.	QTY.	DESCRIPTION
*	23645	AVAIL	PUMP ASSEMBLY COMPLETE
1	6T5200	1	SMAP RING
2	6T5201	1	BALL BEARING
3	23978	1	LIP SEAL (INCLUDED IN SEAL KIT)
4	23099	1	CONTINENTAL SHAFT
5	23151	1	RETAINER BUSHING
6	23150	1	RETAINING RING
7	23967	1	SHAFT END COVER
8	22767	1	PLUG
9	23969	4	BUSHING
10	23970	2	CHANNEL SEAL (INCLUDED IN SEAL KIT)
11	23971	2	THRUST PLATE
12	24757	SET	MATCHED GEAR SET
13	23973	2	GASKET SEAL (INCLUDED IN SEAL KIT)
14	23974	8	HOLLOW DOWEL
15	24756	1	GEAR HOUSING
16	23980	1	PORT END COVER
17	22781	4	WASHER
18	24755	4	STUD
	23979	AVAIL	SEAL KIT (INCLUDES 3, 10 AND 13)

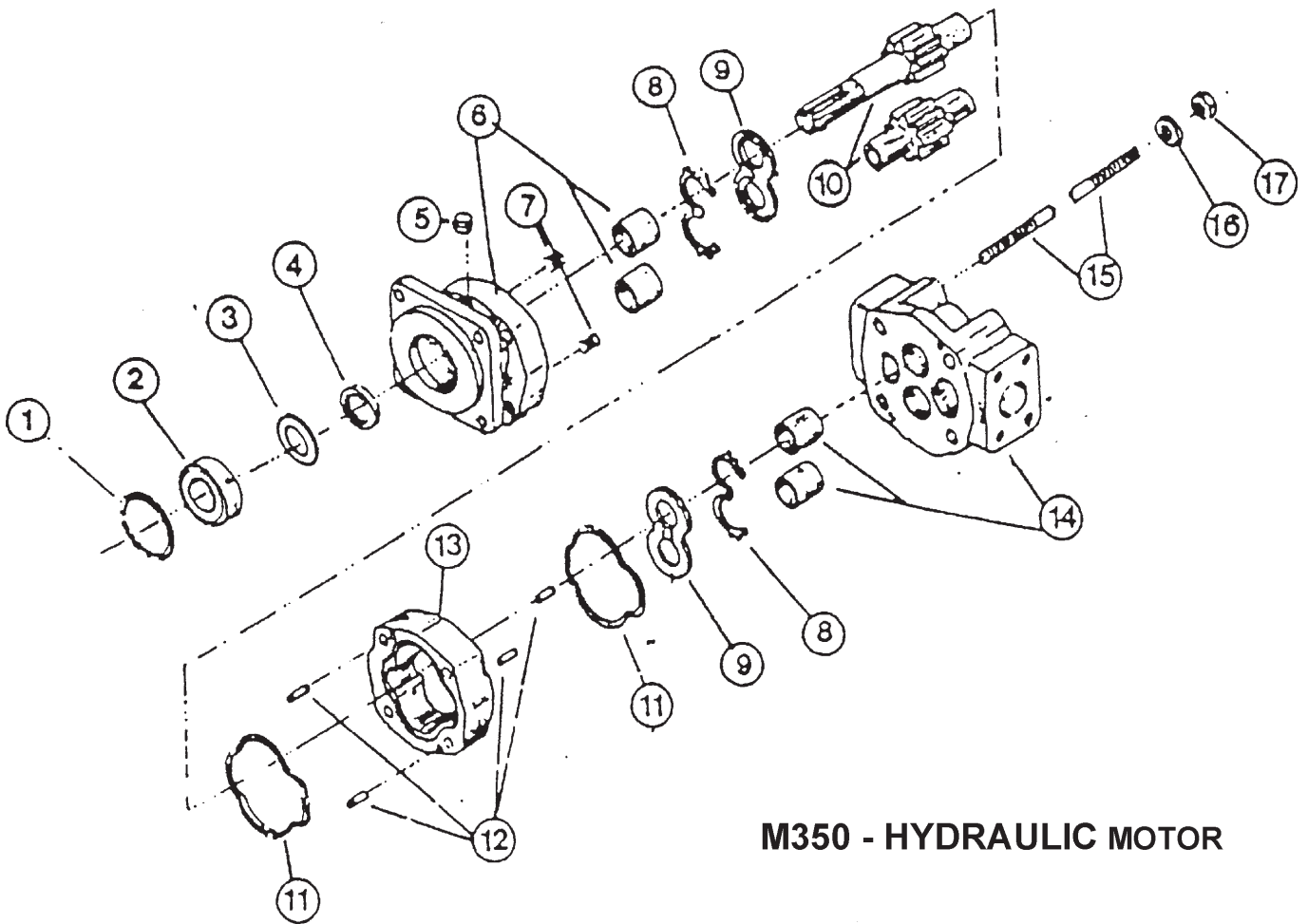
FLAIL MOWER MOTOR (2005 -)



FLAIL MOWER MOTOR (2005 -)

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504013	AVAIL	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504039	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504042	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
10		1	NAMEPLATE
11	763759	2	THRUSTPLATE
12	02961940	1	HEX PLUG
13	TF4401	1	SNAP RING
14	06504049	1	LIP SEAL (INCLUDED IN SEAL KIT)
15	TF4410	2	GASKET SEAL (INCLUDED IN SEAL KIT)
16	06504046	4	SIDE SEAL (INCLUDED IN SEAL KIT)
17	06504047	4	END SEAL (INCLUDED IN SEAL KIT)
18	TF4407	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
19	06504048	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	02961917	4	WASHER
*	06504022	AVAIL	SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

FLAIL MOWER MOTOR (ORIGINAL)

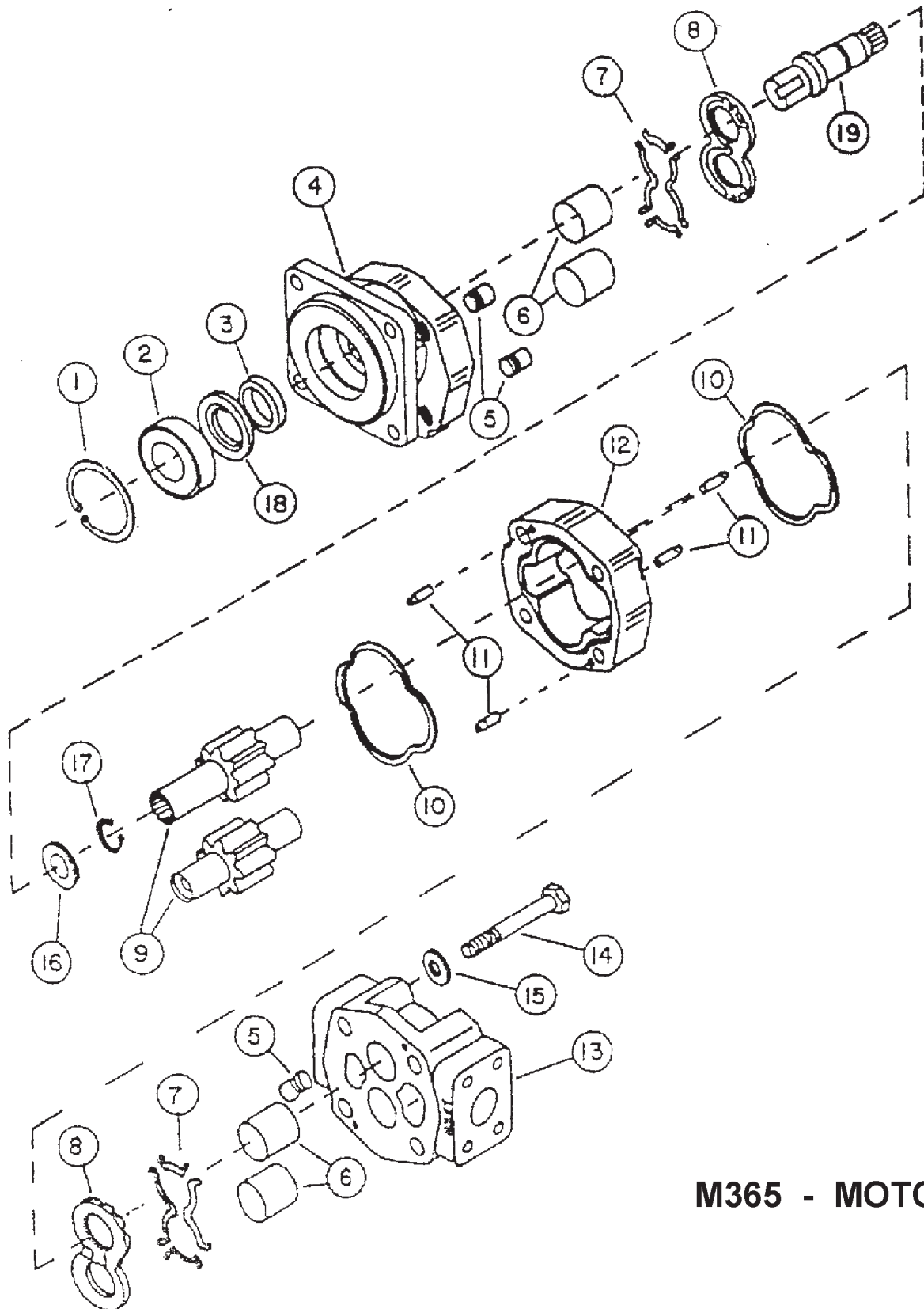


M350 - HYDRAULIC MOTOR

FLAIL MOWER MOTOR (ORIGINAL)

ITEM	PART NO.	QTY.	DESCRIPTION
	23174	AVAIL	MOTOR ASSEMBLY COMPLETE
1	TF4401	1	SNAP RING
2	TF4402	1	BEARING
3	TF4406	1	SEAL RETAINER
4	TF4403	1	SEAL
5	TF4405	1	PLUG
6	TF4404	1	SHAFT END COVER
7	6T5809	2	CHECK ASSEMBLY
8	TF4407	2	CHANNEL SEAL
9	TF4408	2	THRUST PLATE
10	24044	SET	INTEGRAL SHAFT AND GEAR (1 3/4" GEAR)
11	TF4410	2	GASKET SEAL
12	TF4461	4	DOWEL PIN
13	24045	1	GEAR HOUSING
14	TF4413	1	PORT END COVER
15	TF4414	4	STUD
16	TF4415	4	WASHER
17	TF4416	4	NUT
	TF4417	AVAIL	SEAL KIT

50" ROTARY MOWER MOTOR (ORIGINAL)

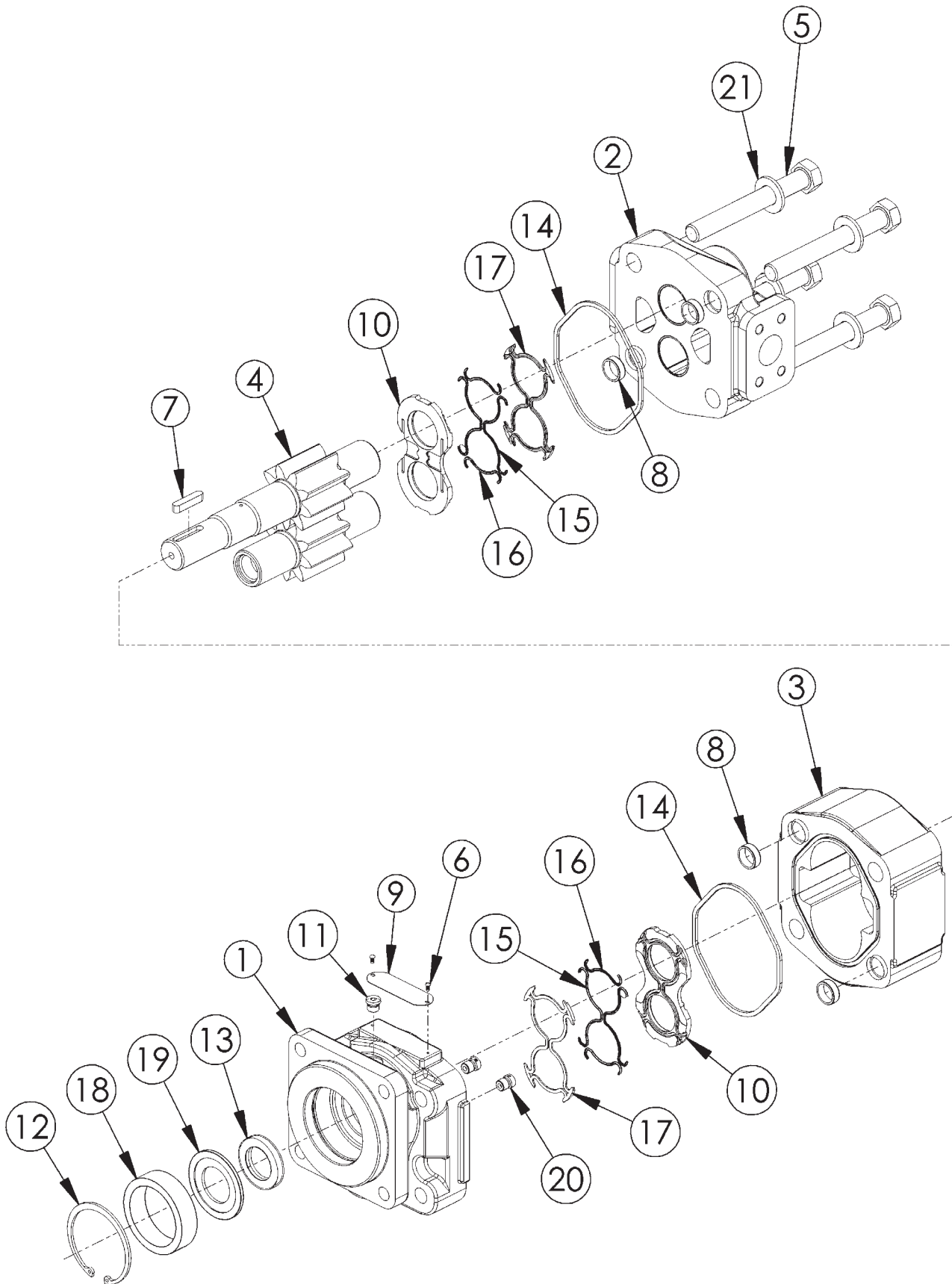


M365 - MOTOR

50" ROTARY MOWER MOTOR (ORIGINAL)

ITEM	PART NO.	QTY.	DESCRIPTION
	23173	AVAIL	MOTOR ASSEMBLY COMPLETE
1	22787	1	SNAP RING
2	22788	1	OUTBOARD BEARING
3	6T5101	1	SEAL
4	22790	1	SHAFT END COVER
5	22791	2	CHECK ASSEMBLY
6	22792	4	BUSHING
7	22793	2 SETS	CHANNEL SEAL
8	22794	2	THRUST PLATE
9	24041	SET	MATCHED GEAR SET (FOR 1 1/2" GEAR)
10	22797	2	GASKET SEAL
11	22798	4	DOWEL PINS
12	24042	1	GEAR HOUSING (FOR 1 1/2" GEAR)
13	22816	1	PORT END COVER
14	24043	4	STUD (FOR 1 1/2" GEAR)
15	23156	4	WASHER
16	23151	1	WASHER
17	23150	1	RETAINING RING
18	22999	1	SEAL RETAINER
19	23099	1	CONTINENTAL SHAFT
	6T5120	AVAIL	SEAL APPLICATOR SHAFT
	23153	AVAIL	SEAL KIT (INCLUDES ITEMS 3, 7, 10)

50" & 60" ROTARY MOWER MOTOR (2005 -)

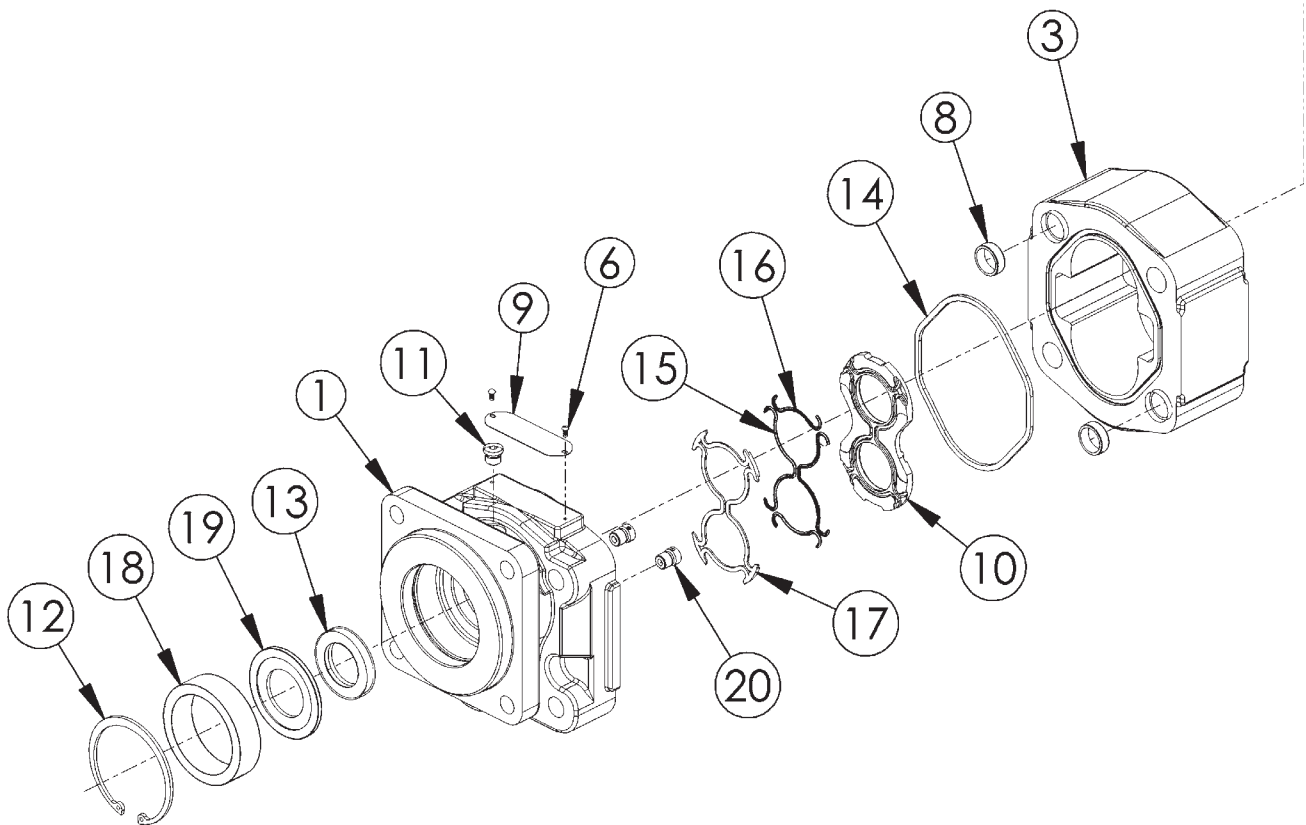
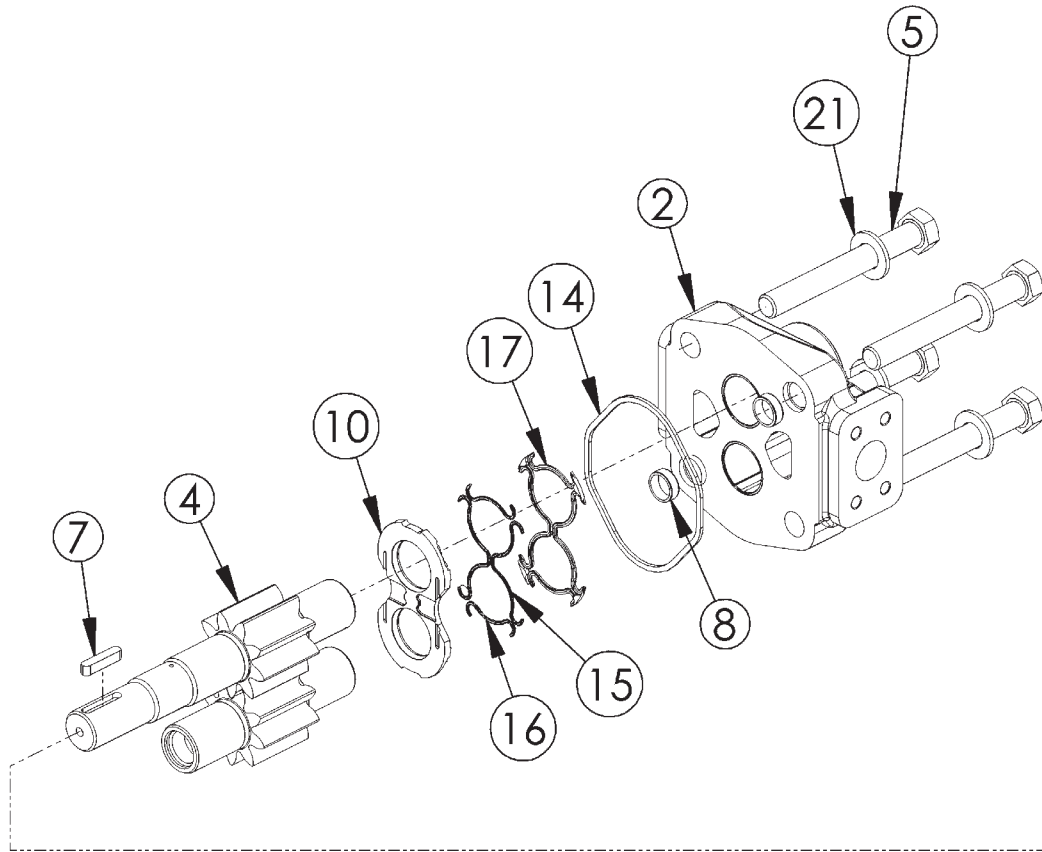


50" & 60" ROTARY MOWER MOTOR (2005 -)

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504012	AVAIL	MOTOR ASSEMBLY TRB50
1	22790	1	SHAFT END COVER
2	06504025	1	PORT END COVER
3	02404206	1	GEAR HOUSING
4	06504038	1	MATCHED GEAR SET
5	06504037	4	CAP SCREW
6	06504027	2	SET SCREW
7	06504028	1	KEY
8	02962201	4	DOWEL PIN
9		1	NAMEPLATE
10	06504029	2	THRUSTPLATE
11	02961940	1	HEX PLUG
12	6T5200	1	SNAP RING
13	06504030	1	LIP SEAL (INCLUDED IN SEAL KIT)
14	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
15	06504031	4	SIDE SEAL (INCLUDED IN SEAL KIT)
16	06504032	4	END SEAL (INCLUDED IN SEAL KIT)
17	06504033	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
18	06504034	1	SPACER
19	06504035	1	SEAL RETAINER
20	22791	2	CHECK ASSEMBLY
21	06504036	4	WASHER
*	06504022	AVAIL	SEAL KIT (INCLUDES 13, 14, 15, 16 AND 17)

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504011	AVAIL	MOTOR ASSEMBLY 2 1/4" COMPLETE TRB60
1	22790	1	SHAFT END COVER
2	06504025	1	PORT END COVER
3	02962194	1	GEAR HOUSING
4	06504026	1	MATCHED GEAR SET
5	02962197	4	CAP SCREW
6	06504027	2	SET SCREW
7	06504028	1	KEY
8	02962201	4	DOWEL PIN
9		1	NAMEPLATE
10	06504029	2	THRUSTPLATE
11	02961940	1	HEX PLUG
12	6T5200	1	SNAP RING
13	06504030	1	LIP SEAL (INCLUDED IN SEAL KIT)
14	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
15	06504031	4	SIDE SEAL (INCLUDED IN SEAL KIT)
16	06504032	4	END SEAL (INCLUDED IN SEAL KIT)
17	06504033	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
18	06504034	1	SPACER
19	06504035	1	SEAL RETAINER
20	22791	2	CHECK ASSEMBLY
21	06504036	4	WASHER
*	06504023	AVAIL	SEAL KIT (INCLUDES 13, 14, 15, 16 AND 17)

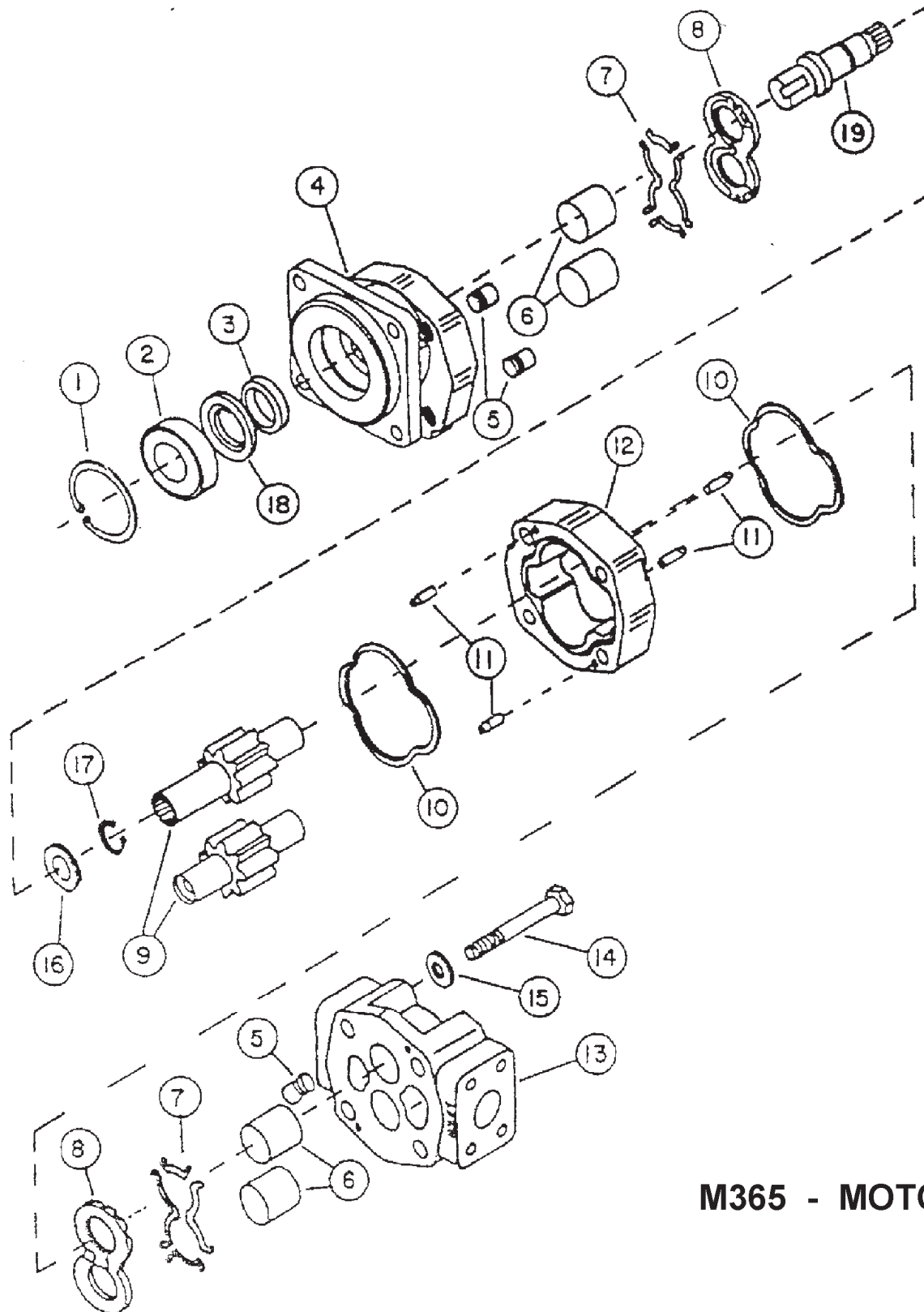
ROTARY MOWER MOTOR (2005 -)



ROTARY MOWER MOTOR (2005 -)

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504016	AVAIL	MOTOR ASSEMBLY 1 1/4" COMPLETE TSR/TRAILKAT
1	22790	1	SHAFT END COVER
2	06504025	1	PORT END COVER
3	02962194	1	GEAR HOUSING
4	06504053	1	MATCHED GEAR SET
5	02962197	4	CAP SCREW
6	06504027	2	SET SCREW
7	06504028	1	KEY
8	02962201	4	DOWEL PIN
9		1	NAMEPLATE
10	06504029	2	THRUSTPLATE
11	02961940	1	HEX PLUG
12	6T5200	1	SNAP RING
13	06504030	1	LIP SEAL (INCLUDED IN SEAL KIT)
14	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
15	06504031	4	SIDE SEAL (INCLUDED IN SEAL KIT)
16	06504032	4	END SEAL (INCLUDED IN SEAL KIT)
17	06504033	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
18	06504034	1	SPACER
19	06504035	1	SEAL RETAINER
20	22791	2	CHECK ASSEMBLY
21	06504036	4	WASHER
*	06504023	AVAIL	SEAL KIT (INCLUDES 13, 14, 15, 16 AND 17)

60" ROTARY MOWER MOTOR (ORIGINAL)

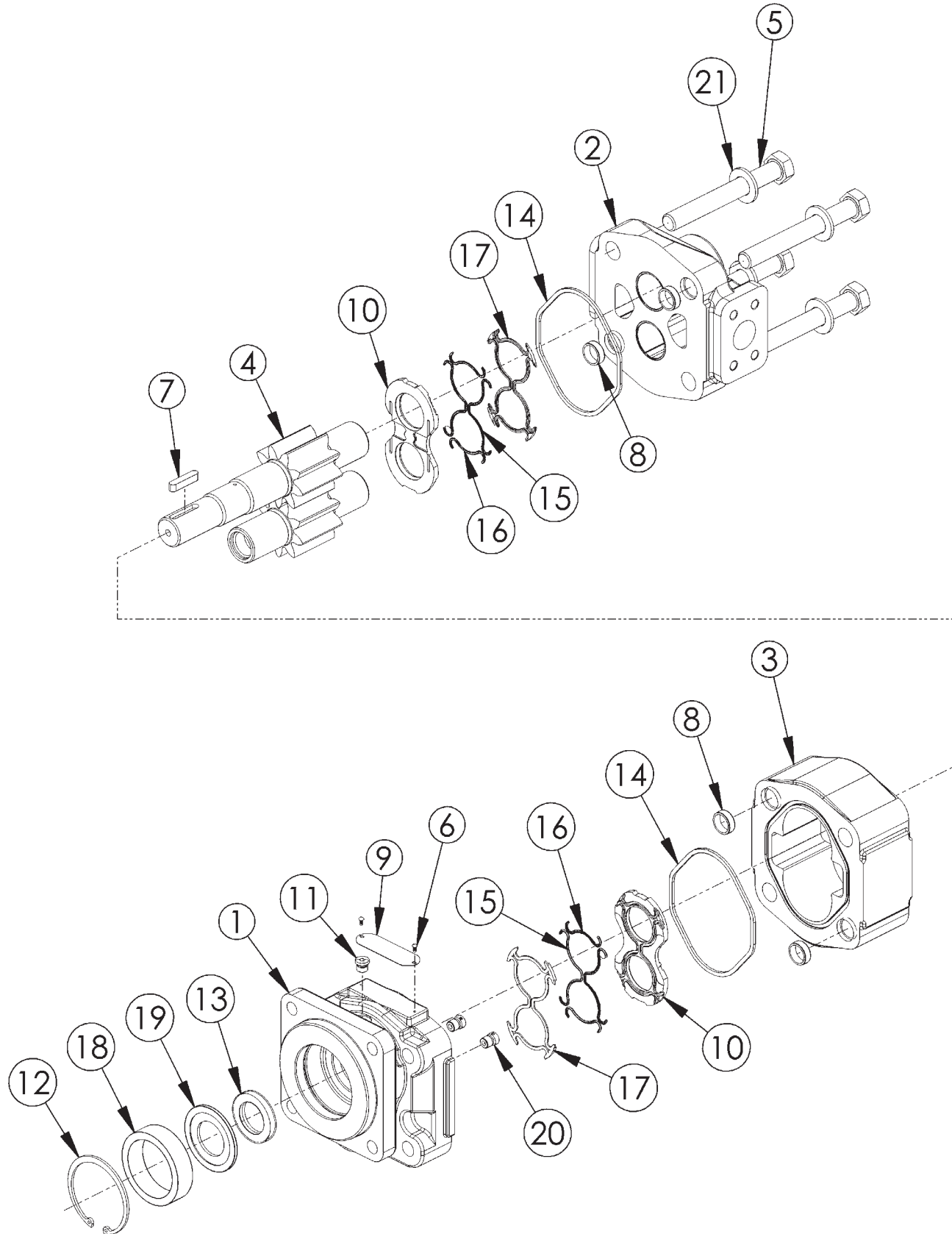


M365 - MOTOR

60" ROTARY MOWER MOTOR (ORIGINAL)

ITEM	PART NO.	QTY.	DESCRIPTION
	23172	AVAIL	MOTOR ASSEMBLY COMPLETE
1	6T5200	1	SNAP RING
2	6T5201	1	OUTBOARD BEARING
3	6T5101	1	SEAL
4	22790	1	SHAFT END COVER
5	22791	2	CHECK ASSEMBLY
6	22792	4	BUSHING
7	22793	2 SETS	CHANNEL SEAL
8	22794	2	THRUST PLATE
9	24354	SET	MATCHED GEAR SET (2 1/4" GEAR)
10	22797	2	GASKET SEAL
11	22798	4	DOWEL PINS
12	24355	1	GEAR HOUSING (FOR 2 1/4" GEAR)
13	22816	1	PORT END COVER
14	24365	4	STUD (FOR 2 1/4" GEAR)
15	23156	4	WASHER
16	23151	1	WASHER
17	23150	1	RETAINING RING
18	22999	1	SEAL RETAINER
19	23099	1	CONTINENTAL SHAFT
	6T5120	AVAIL	SEAL APPLICATOR SHAFT
	23153	AVAIL	SEAL KIT

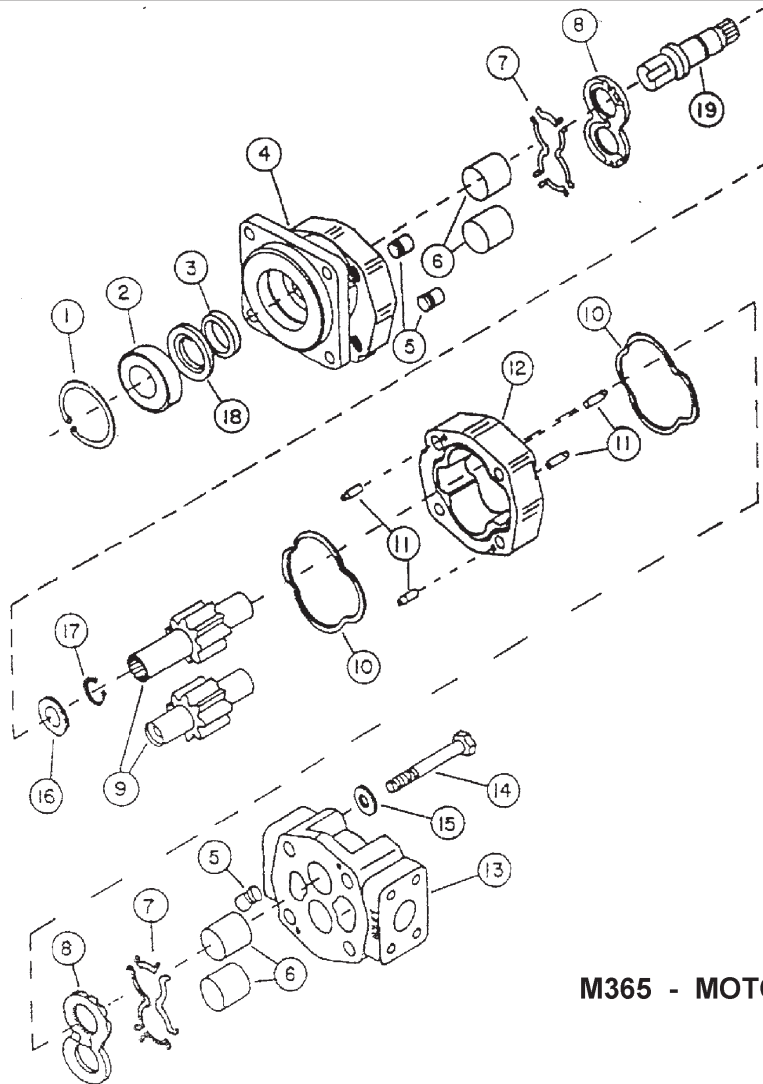
DITCHER MOTOR (2005)



DITCHER MOTOR (2005)

ITEM	PART NO.	QTY.	DESCRIPTION
*	06504014	AVAIL	MOTOR ASSEMBLY 1" COMPLETE DITCHER
1	22790	1	SHAFT END COVER
2	06504025	1	PORT END COVER
3	06504051	1	GEAR HOUSING
4	06504052	1	MATCHED GEAR SET
5	06504050	4	CAP SCREW
6	06504027	2	SET SCREW
7	06504028	1	KEY
8	02962201	4	DOWEL PIN
9		1	NAMEPLATE
10	06504029	2	THRUSTPLATE
11	02961940	1	HEX PLUG
12	6T5200	1	SNAP RING
13	06504030	1	LIP SEAL (INCLUDED IN SEAL KIT)
14	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
15	06504031	4	SIDE SEAL (INCLUDED IN SEAL KIT)
16	06504032	4	END SEAL (INCLUDED IN SEAL KIT)
17	06504033	2	BACK-UP SEAL (INCLUDED IN SEAL KIT)
18	06504034	1	SPACER
19	06504035	1	SEAL RETAINER
20	22791	2	CHECK ASSEMBLY
21	06504036	4	WASHER
*	06504023	AVAIL	SEAL KIT (INCLUDES 13, 14, 15, 16 AND 17)

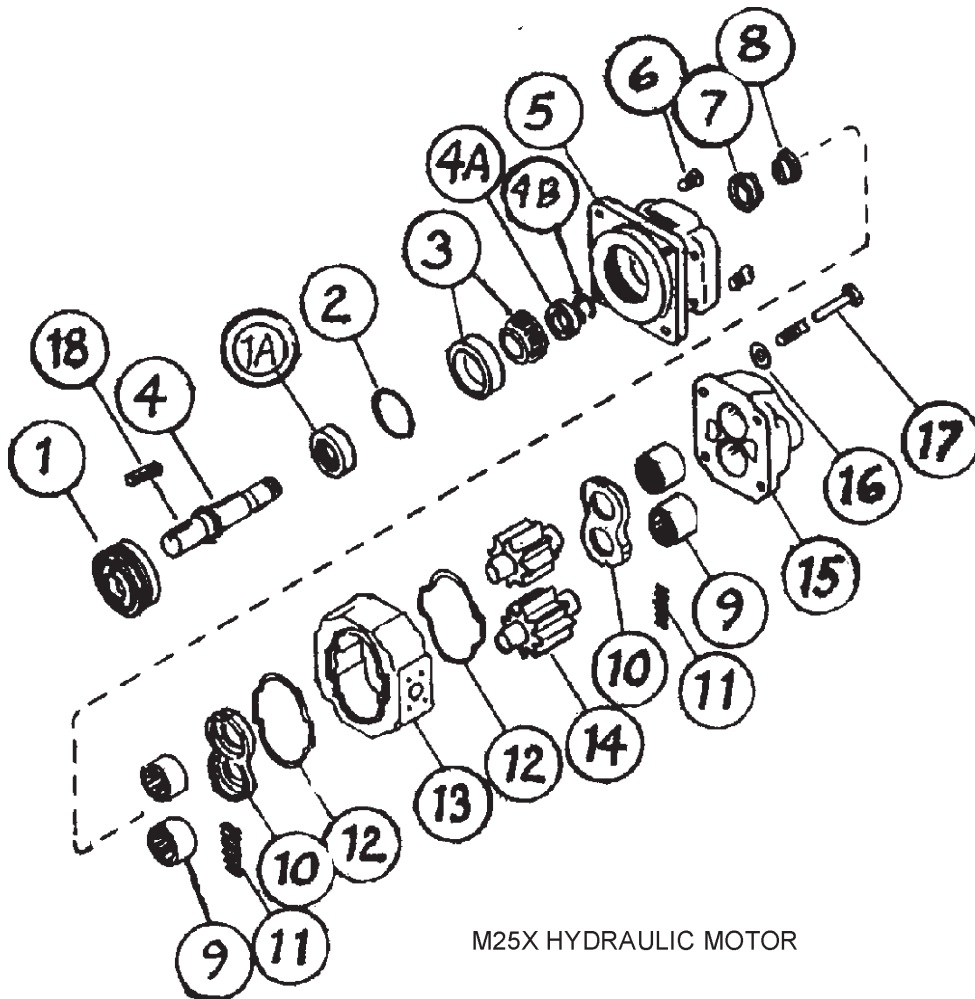
DITCHER MOTOR (ORIGINAL)



M365 - MOTOR

ITEM	PART NO.	QTY.	DESCRIPTION
*	33357	AVAIL	MOTOR ASSEMBLY 1" COMPLETE
1	22787	1	SNAP RING
2	22788	1	OUTBOARD BEARING
3	6T5101	1	SEAL (INCLUDED IN SEAL KIT)
4	22790	1	SHAFT END COVER
5	22791	2	CHECK ASSEMBLY
6	22792	4	BUSHING
7	22793	2	CHANNEL SEAL (INCLUDED IN SEAL KIT)
8	22794	2	THRUST PLATE
9	31868	SET	MATCHED GEAR SET 1 1/2"
10	22797	2	GASKET SEAL (INCLUDED IN SEAL KIT)
11	22798	4	DOWEL PIN
12	24042	1	GEAR HOUSING 1 1/2"
13	22816	1	PORT END COVER
14	24043	4	STUD
15	23156	4	WASHER
16	23151	1	WASHER
17	23150	1	RETAINING RING
18	22999	1	SEAL RETAINER
19	23099	1	CONTINENTAL SHAFT
*	23153	AVAIL	SEAL KIT (INCLUDES 3, 7 AND 10)
*	6T5120	AVAIL	SEAL APPLICATOR TOOL

SIDE DECK FLAIL MOTOR



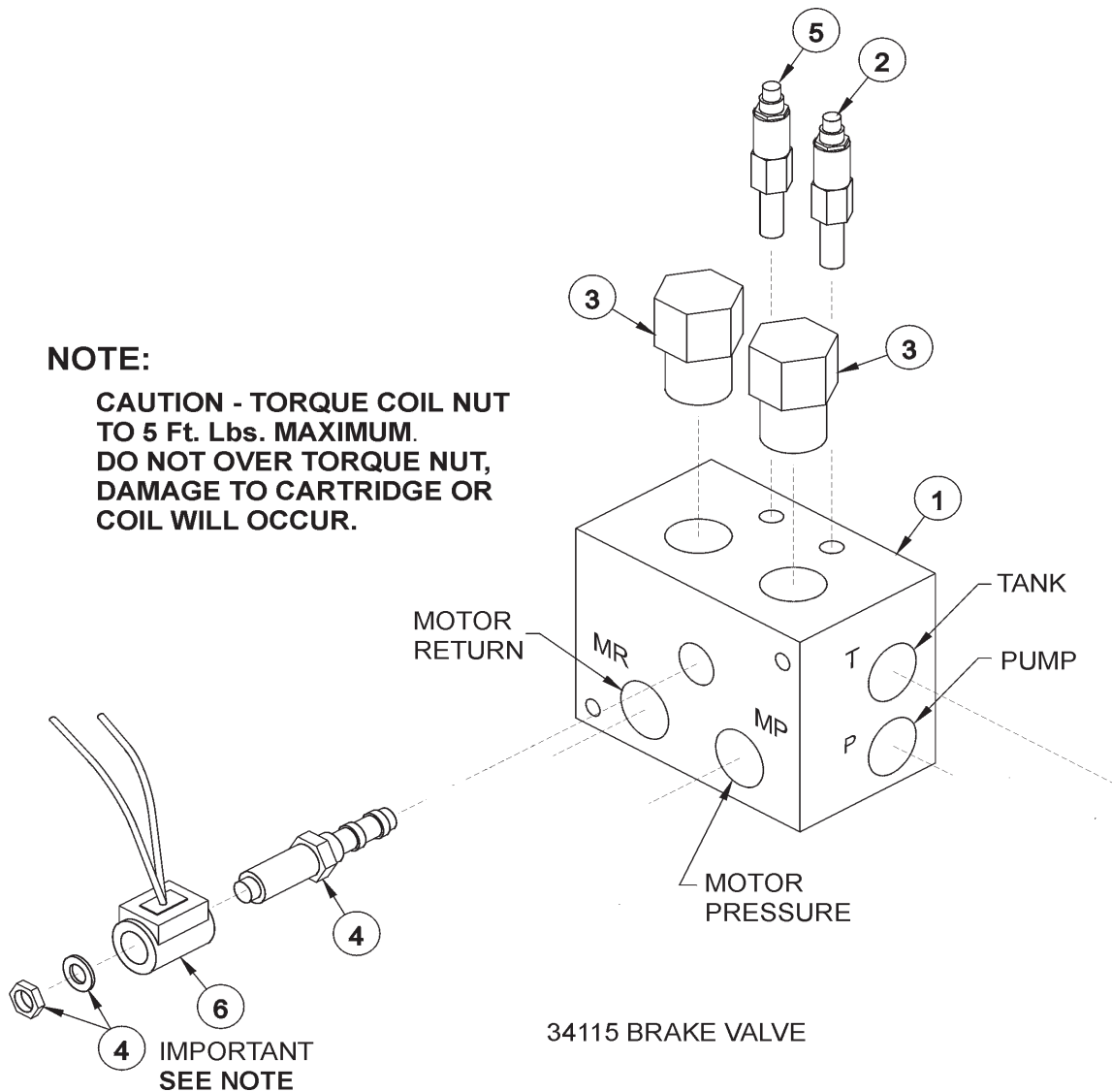
M25X HYDRAULIC MOTOR

ITEM	PART NO.	QTY.	DESCRIPTION
	TF1005	AVAIL	MOTOR ASSEMBLY COMPLETE
1	TF5000	1	SEAL RETAINER
1A	TF5002	1	MOTOR SHAFT SEAL
2	6T5003	1	O - RING
3	6T5004	1	TAPERED BEARING
4	TF5005	1	DRIVE SHAFT
4A	6T5006	1	SPACER
4B	6T5007	1	RETAINER RING
5	6T5008	1	SHAFT END COVER
6	6T5009	2	CHECK ASSEMBLY
7	6T5010	1	SHAFT BUSHING
8	6T5011	1	SPRING
9	6T5012	4	ROLLER BEARING
10	6T5013	2	THRUST PLATES
11	6T5014	1 STRIP	POCKET SEAL
12	6T5015	2	GASKET SEAL
13	6T5016	1	GEAR HOUSING 2 3/4"
14	6T5017	1 SET	MATCHED GEARS
15	6T5018	1	PORT END COVER
16	6T5019	4	WASHERS
17	6T5020	4	CAPSCREWS
18	6T5105	1	SHAFT KEY
	TF5321	AVAIL	SEAL KIT (INCLUDES ITEM 2, 2A, 7, 1, AND 12)

SOLENOID BRAKE VALVE ASSEMBLY

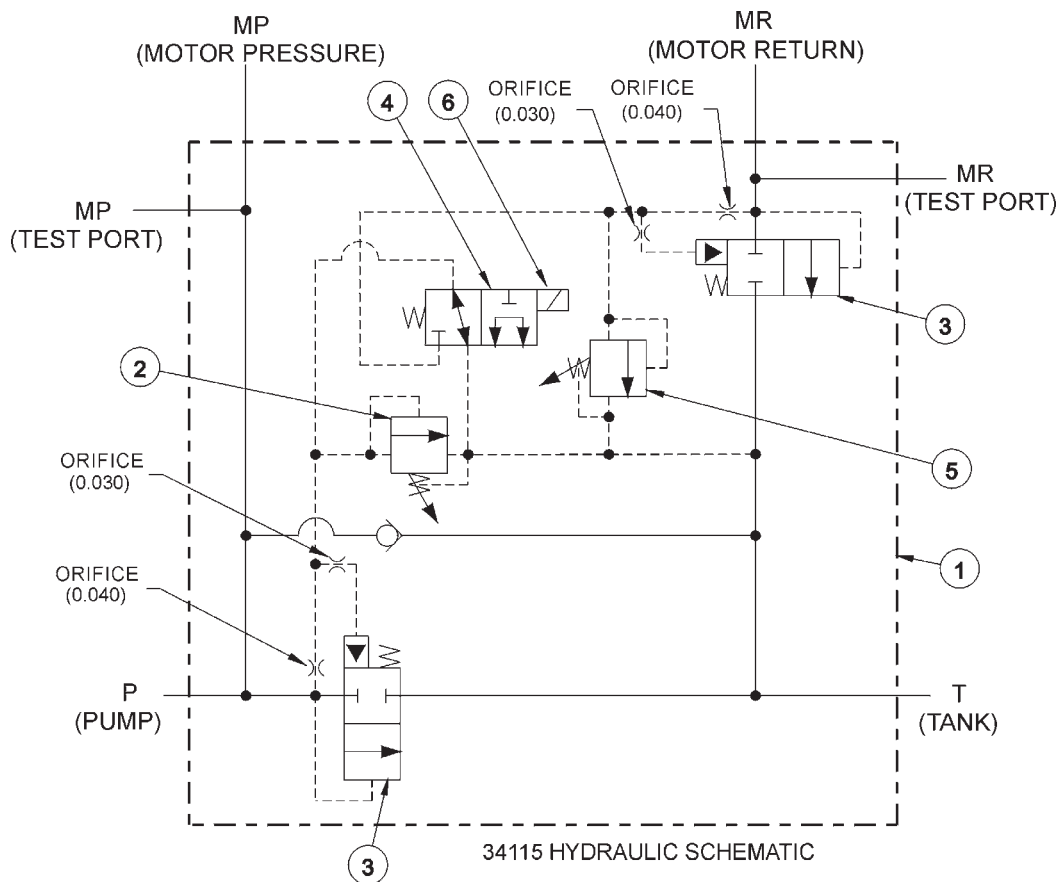
NOTE:

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



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

SOLENOID BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

FAILURE MODE:

- MOWER WILL NOT START - system pressure is low (engine not lugging).
- MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure.
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.
- MOWER BLADE WILL NOT STOP - blade will not stop in proper time.

CHECK STEPS

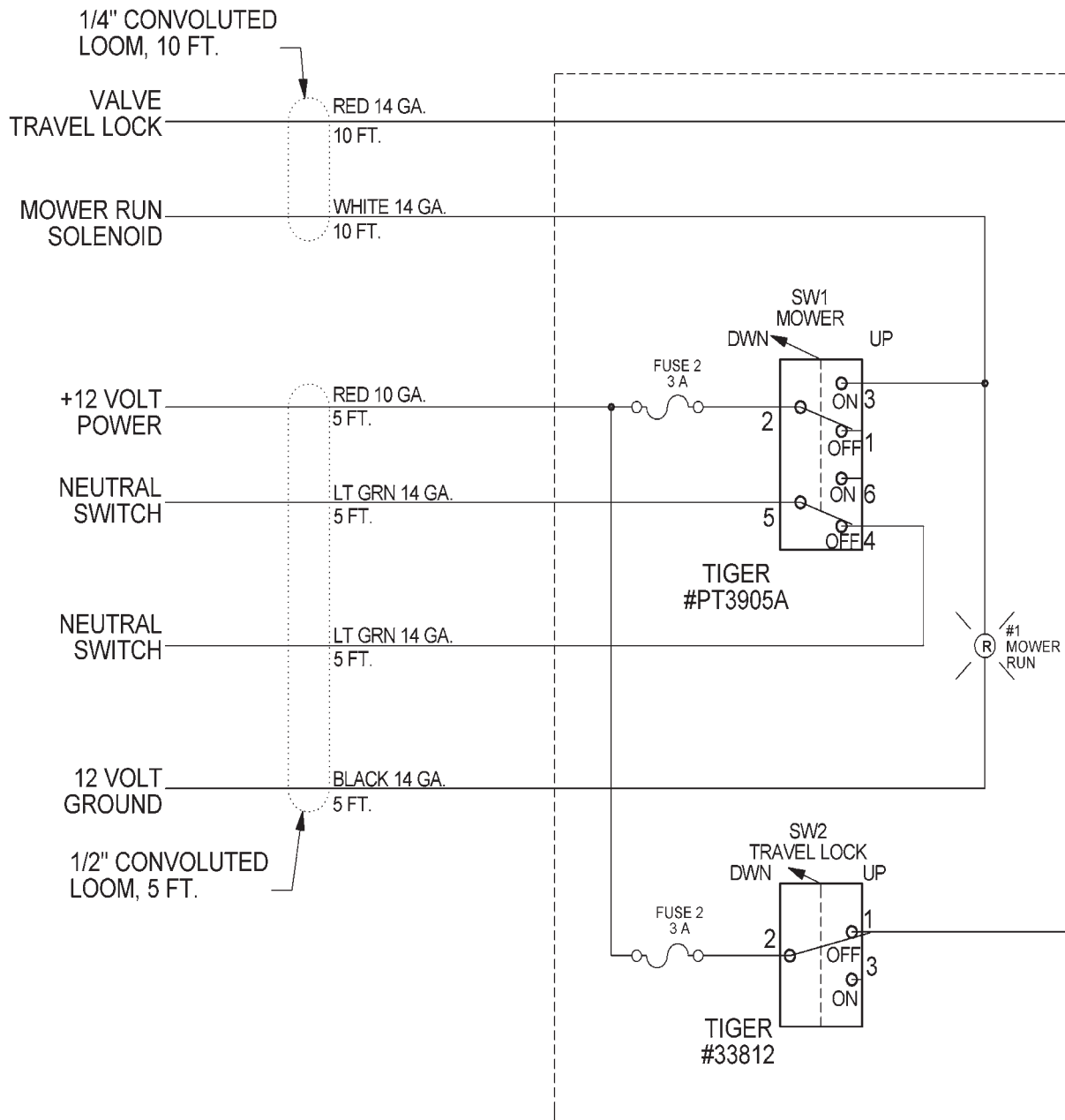
- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

CORRECTIVE STEPS:

1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve (item 2) for wear or contamination.
5. Remove and inspect orifices near "P" port for contamination.
6. Remove "P" port hose and fitting, visually inspect for contamination, check ball for movement.
7. Remove and inspect orifices near "MR" port for contamination.
8. Remove, inspect 2600 psi relief valve (item 5) for wear or contamination.
9. Remove, inspect logic element near "MR" port (item 3) for wear or contamination.

SWITCHBOX SCHEMATIC

SWITCHBOX WIRING DIAGRAM MOWER, BOOM 34523



CLEAN CUTTER - BOOM

**CLEAN CUTTER
SECTION**

ASSEMBLY - CLEAN CUTTER

CAUTION!



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

CAUTION!



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

CLEAN CUTTER BLADE MOUNTING

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

DANGER!



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

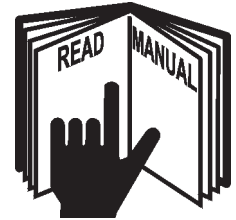


OPERATION - CLEAN CUTTER

DANGER!



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



OPERATING INSTRUCTIONS

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

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

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

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

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

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

OPERATION - CLEAN CUTTER

WARNING!



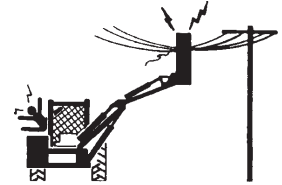
Excessive wobble will generate heat in the blade, rapidly accelerating the loss of tension. The overheated blade will then rub against the foliage as it is cutting, again increasing the heat in the blade and intensifying the wobble. The blade may then weaken, crack and eventually fail. **NEVER RUN A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

DANGER!



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

(SBM-7)



WARNING!



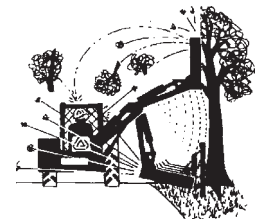
Do not put hands or feet under mower decks. Blade Contact can result serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-9)



DANGER!



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



WARNING!



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

MAINTENANCE - CLEAN CUTTER

MAINTENANCE INSTRUCTIONS

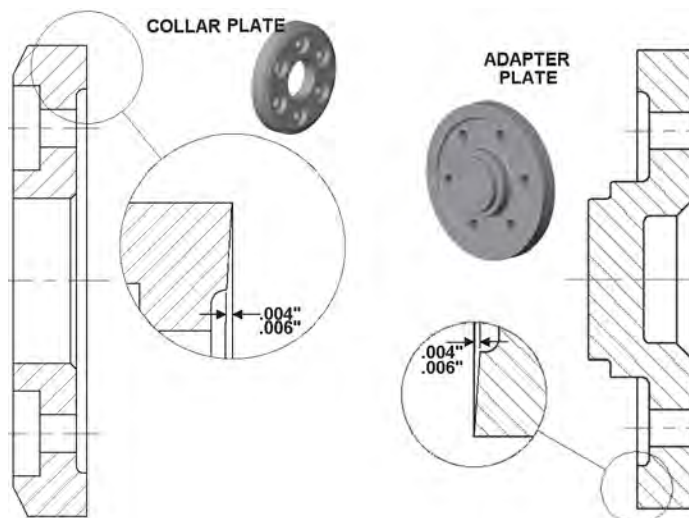
Inspect clean cutter saw before each use. Re-torque spindle bolts in an alternating pattern to 204 ft-lbs. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose tooth assemblies by hammer and or replacing rivets. If teeth tips are broken, chipped, or missing, replace tip or replace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

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

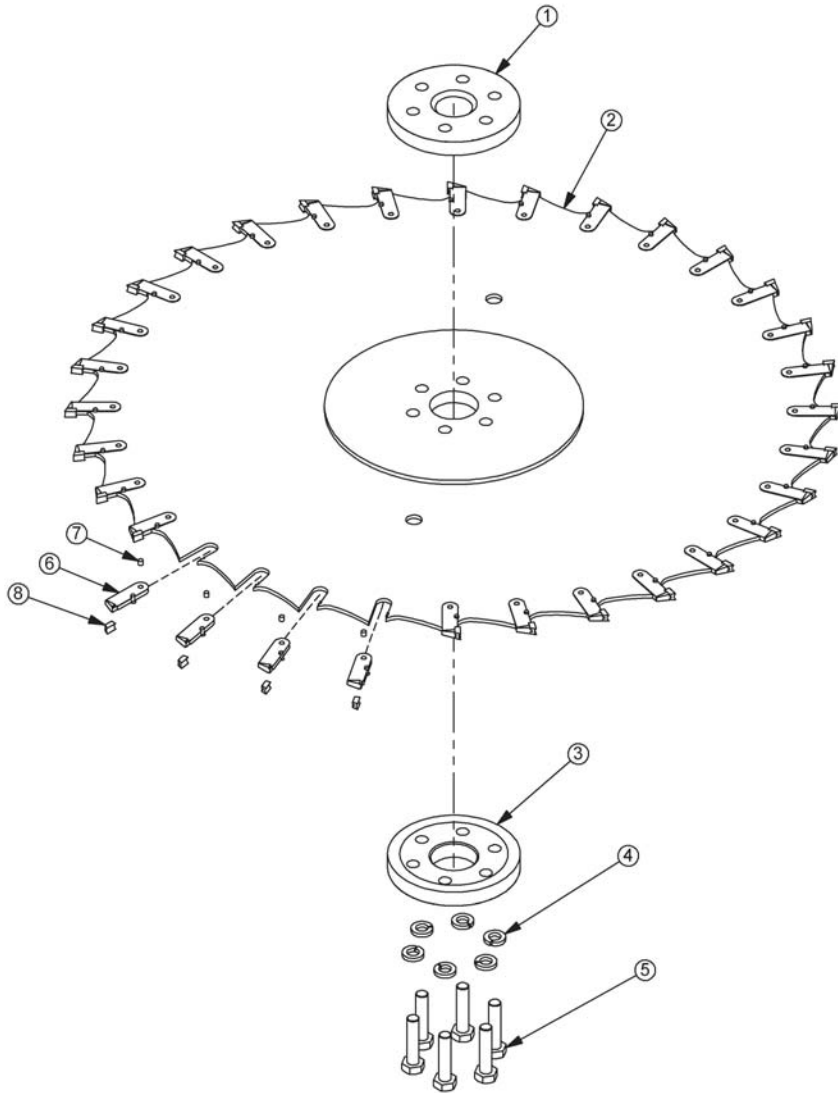
Check adapter and collar every time saw is changed, maintain the .004 to .006 inch taper (see figure below) on inside face (surface against saw blade) of these two (2) items. Always clean inside face of adapter and collar before mounting the blade. If adapter or collars are worn, chipped, or damaged,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

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

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



CLEAN CUTTER BLADE AND TEETH PARTS



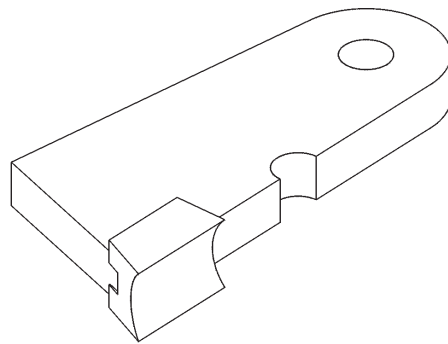
ITEM	PART NO.	QTY.	DESCRIPTION
1	33875	1	ADAPTER, SAW BLADE - BOOM
2	06520224	1	BLADE, 48" SAW WITH TEETH
3	33876	1	COLLAR, SAW BLADE - BOOM
4	21992	6	LOCK WASHER 5/8"
5	33877	6	CAPSCREW 5/8" X 3" UNF GR.8
6	06520225	30	TOOTH WITH RIVET, SAW BLADE
7	34703	30	TOOTH RIVET, SAW BLADE
8	34702	30	TOOTH TIP, SAW, CARBIDE
*	34705	AVAIL	SHARPENING TOOL (NOT SHOWN)
*	34704	AVAIL	RIVET REMOVER TOOL (NOT SHOWN)

UPDATED 7/25/06

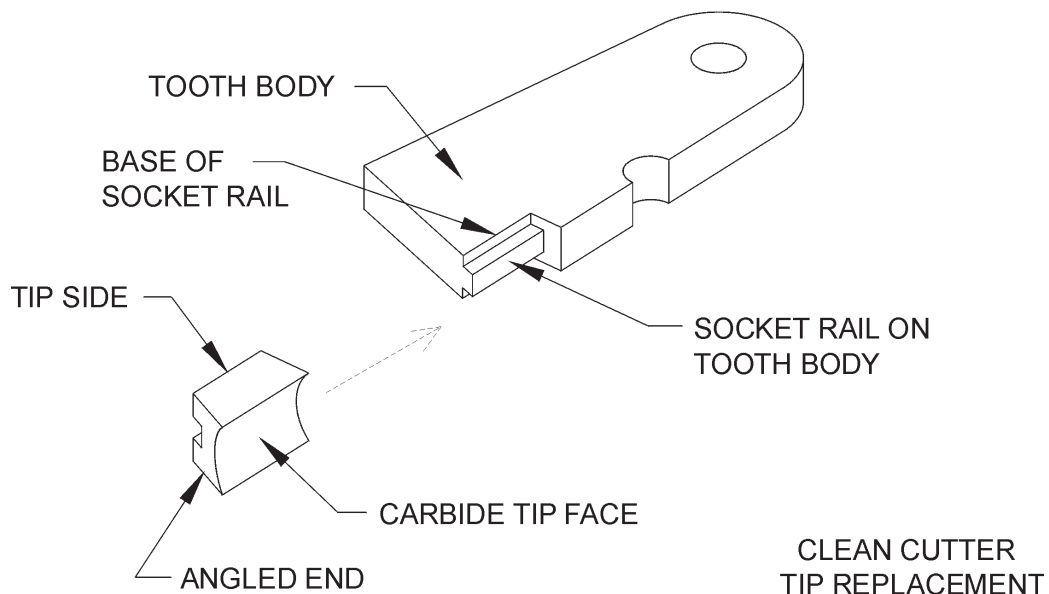
TIP REPLACEMENT PROCEDURE

CARBIDE TIP REPLACEMENT

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



VIEW OF ASSEMBLED TOOTH



CLEAN CUTTER
TIP REPLACEMENT

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WARRANTY SECTION

WARRANTY INFORMATION

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

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

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

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

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

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

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

ONE LAST WORD

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



1012

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

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

TO THE OWNER / OPERATOR / DEALER



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

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

OWNER REQUIREMENTS:

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

OPERATOR REQUIREMENTS:

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



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