



# TRIPLE FLAIL ASSEMBLIES

Massey Ferguson  
5425-55, CAB

Current as of 08/31/2012

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## PARTS LISTING WITH MOUNTING AND OPERATING INSTRUCTIONS

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**Tiger Corporation**  
3301 N. Louise Ave.  
Sioux Falls, SD 57107  
1-800-843-6849  
1-605-336-7900  
[www.tiger-mowers.com](http://www.tiger-mowers.com)

**06040009**

# TO THE OWNER / OPERATOR / DEALER

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

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

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



# DANGER

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



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

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

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

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

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

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

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

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

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

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

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

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

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



02967827

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

# FORWARD

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

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

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

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

- Classify the problem
  - Hydraulic, electrical or mechanical - Read the trouble shooting section
  - Tractor or Truck chassis - Contact vehicle dealer
  
- If unable to correct the problem yourself, contact your local Tiger Dealer after gathering:
  - Machine model \_\_\_\_\_
  - Serial number \_\_\_\_\_
  - Dealer name \_\_\_\_\_
  - Detailed information about the problem including results of troubleshooting

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

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

MANUFACTURED BY:

**Tiger Corporation**

3301 N. Louise Ave.

Sioux Falls, SD 57107

1-800-843-6849

1-605-336-7900

www.tiger-mowers.com

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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

# SAFETY SECTION

# SAFETY

## General Safety Instructions and Practices

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



1000

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

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

DANGER!



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

WARNING!



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

CAUTION!



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

**IMPORTANT!**

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

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

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

**SAFETY INSTRUCTIONS**



# SAFETY

## PELIGRO!



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

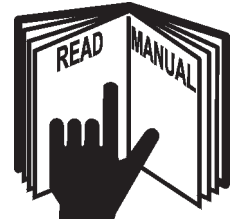


**¡ LEA EL INSTRUCTIVO!**

## DANGER!



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



## WARNING!



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

## WARNING!



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



## WARNING!



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



## WARNING!

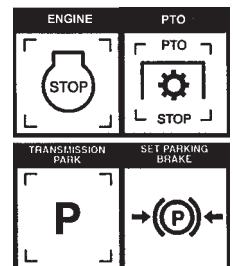


Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)

## DANGER!



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



# SAFETY

**DANGER!**



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

(SG-10)



**DANGER!**



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

(SG-11)



**WARNING!**



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

(SG-12)



**DANGER!**



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

(SG-13)



**DANGER!**



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

(SG-14)



**DANGER!**



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

(SG-15)

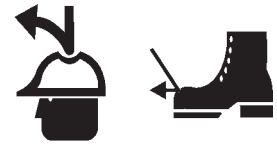


# SAFETY

## WARNING!



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



## CAUTION!



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



## WARNING!

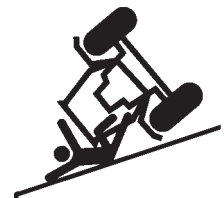


Transport only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.



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

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



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

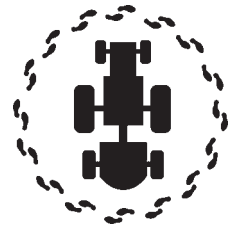
# SAFETY

**WARNING!**



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

(SG-20)



**WARNING!**



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



**WARNING!**



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



**DANGER!**



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

(SG-23)

**DANGER!**



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

(SG-24)



**DANGER!**



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

**WARNING!**



Do not exceed the rated PTO speed for the Implement. Excessive PTO speeds can cause Implement driveline or blade failures resulting in serious injury or death. (SG-26)



# 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!



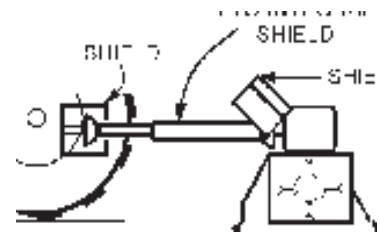
There are obvious and hidden potential hazards in the operation of this Mower. **REMEMBER!** This machine is often operated in heavy brush and in heavy weeds. The Blades of this Mower can throw objects if shields are not properly installed and maintained. Serious injury or even death may occur unless 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. (SFL-1)



## DANGER!



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, 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. (SFL-5)



# SAFETY

## DANGER!



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

## DANGER!



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

## WARNING!



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

# SAFETY

## DANGER!



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. (SFL-6)



## DANGER!



Do not put hands or feet under mower decks. Blade Contact can result in serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SFL-2)



## WARNING!



Each Rear Wheel must have a minimum of 1,000 pounds contact with the surface to prevent lateral instability and possible tip-over which could result in serious bodily injury or even death. Widen the wheel tread and add weights if needed. Refer to the mounting instructions or call Customer Service if you need assistance with Counterweight Procedure. (SFL-3)



## WARNING!



Do not operate Mower if excessive vibration exists. Shut down PTO and the Tractor engine. Inspect the Mower to determine the source of the vibration. If Mower blades are missing or damaged replace them immediately. Do not operate the mower until the blades have been replaced and the Mower operates smoothly. Operating the Mower with excessive vibration can result in component failure and broken objects to be thrown outward at very high velocities. To reduce the possibility of property damage, serious injury, or even death, never allow the Mower to be operated with blades missing. (SFL-4)

## WARNING!



Be particularly careful when transporting the Implement with the Tractor. Turn curves or go up hills only at a low speed and using a gradual steering angle. Rear mounted implements move the center of gravity to the rear and remove weight from the front wheels. Make certain, by adding front ballast, that at least 20% of the tractor's weight is on the front wheels to prevent rearing up, loss of steering control or Tractor tip-over. Slow down on rough or uneven surfaces to prevent loss of steering control which could result in property damage or possible injury. Do not transport unless 3-Point lift lever is fully raised and in the latched transport position. Dropping implement in transport can cause serious damage to the tractor and/or Implement and possibly cause the operator or others to be injured or killed. (S3PT-2)

# SAFETY

## DANGER!



Always disconnect the main PTO Driveline from the Tractor before performing service on the Mower. Never work on the Mower with the tractor PTO driveline connected and running. Blades or Drivelines could turn without warning and cause immediate entanglement, injury or death.

(SRM-3)

## WARNING!



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



## WARNING!



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

## DANGER!



Make sure the PTO shield, integral driveline shields, and input shields are installed when using PTO-driven equipment. Always replace any shield if it is damaged or missing. (S3PT-8)



## WARNING!



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



## WARNING!



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

(S3PT-5)

## DANGER!



When the Wings are folded for transport, the center of gravity is raised and the possibility of overturn is increased. Drive slowly and use extreme caution when turning on hillsides. Overturning the Implement could cause the Implement to overturn the Tractor and vice versa resulting in serious injury or even death. Never fold wings on a hillside...the Implement may overturn. (STI-2)

## DANGER!



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



# SAFETY

## 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.



## WARNING!



The rotating parts of this machine continue to rotate even after the PTO 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.

(3PT-10)

**“Wait a minute...Save a life!”**

## WARNING!



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

## WARNING!



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

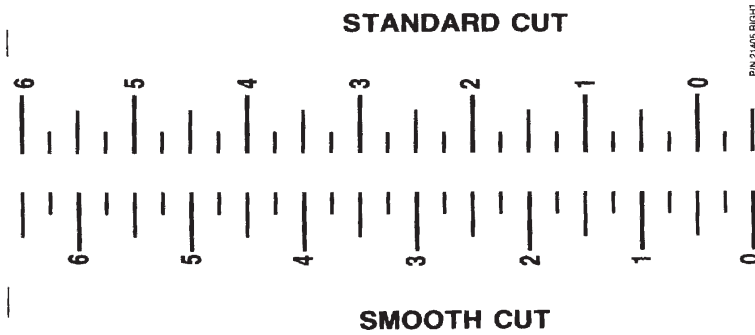
Tiger mowers use balanced and matched system components for blade carriers, blades, cutter-shafts, knives, knife hangers, rollers, drive-train components and bearings. These parts are made and tested to Tiger specifications. Non-genuine “will fit” parts do not consistently meet these specifications.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

SEE YOUR  DEALER

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

# SAFETY

PART NO.  
LOCATION



21405  
MOWER DECK

**DO NOT LUBRICATE WITH AUTOMATIC  
GREASE GUN. GREASE WITH HAND  
GREASE GUN ONLY.**

P/N22839

22839  
MOWER DECK



22840  
INSIDE OF CAB

**NO STEP**

22865  
MOWER DECK



# 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

PART NO.  
LOCATION

24028  
MOWER DECK



10" x 5.5" 31522  
MOWER DECK  
18" x 10" 31523  
HYDRAULIC TANK

### MOWING SAFETY TIPS

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

Tiger

33743

33743  
INSIDE OF CAB



## DANGER

TO AVERT THROWN OBJECTS,  
CUTTER SHAFT MUST TURN IN THIS



DIRECTION

42360

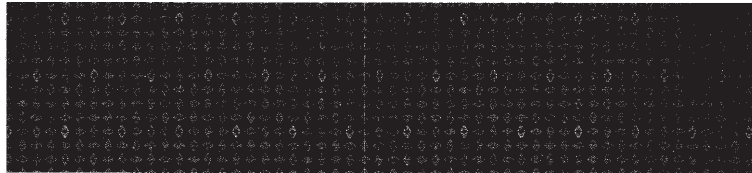
42350  
MOWER DECK

# SAFETY

PART NO.  
LOCATION



42399  
MOWER DECK



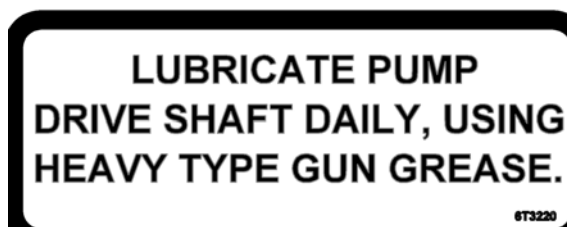
42400  
MOWER DECK



6T3217  
MOWER DECK



6T3219  
INSIDE OF CAB

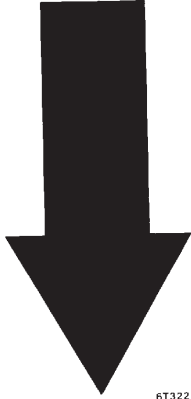


6T3220  
FRONT PUMP MOUNT



# SAFETY

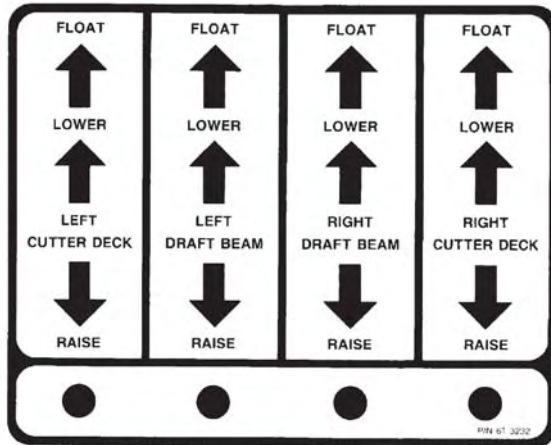
**NOTICE:**  
Engine will not  
start when mower  
is engaged.



6T3222

PART NO.  
LOCATION

6T3222  
INSIDE OF CAB

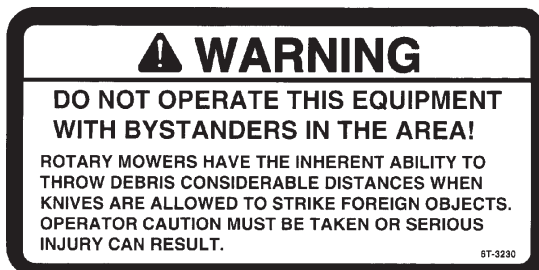


6T3232

6T3232  
INSIDE OF CAB



6T3224  
MOWER DECK



6T3230  
INSIDE OF CAB

# SAFETY

PART NO.  
LOCATION



6T3233  
HYDRAULIC TANK



6T3234  
INSIDE OF CAB



6T3236  
MOWER DECK  
HYDRAULIC TANK



6T3242  
INSIDE OF CAB

6T3242

# SAFETY



**Tiger Corporation**

800-843-6849

www.tiger-mowers.com

| Description   | Application | General Specification  | Recommended Lubricant  |
|---|-------------|--|--|
| Tractor Hydraulics  | Reservoir   | JD-20C   | Mobilfluid® 424  |
| Mower Hydraulics<br>Cold Temperatures 0°F Start-up<br><br>Normal Temperatures 10°F Start-up<br>Normal Temperatures 15°F Start-up<br>High Operating Temperatures<br>Above 90°F Ambient | Reservoir   | ISO 46 Anti-Wear/<br>Low Temp<br>JD-20C<br>ISO 46 Anti-Wear<br>ISO 100 Anti-Wear | Mobil DTE® 15M<br><br>Mobilfluid® 424<br>Mobil DTE® 25<br>Mobil DTE® 18M |
| Flail Rear Gearbox  | Reservoir   | PAO Synthetic Extreme<br>Pressure Gear Lube                                      | Mobilube SHC® 75W-90,<br>Mobil 1 Synthetic Gear Lubricant                |
| Cutter Shaft and Ground Roller Shaft (Flail)  | Grease Gun  | Lithium Complex,<br>NLGI 2 ISO 320   | Mobilgrease® CM-S  |
| Drive Shaft Coupler (Rotary and Flail)  | Grease Gun  | Lithium Complex,<br>NLGI 2 ISO 320   | Mobilgrease® CM-S  |
| Boom Swivel, Boom Cylinder Pivots<br>(Rotary and Flail Boom Type)   | Grease Gun  | Lithium Complex,<br>NLGI 2 ISO 320   | Mobilgrease® CM-S  |
| Deck Boom Pivot & Deck Stop Adjustment<br>(Rotary and Flail)  | Grease Gun  | Lithium Complex,<br>NLGI 2 ISO 320   | Mobilgrease® CM-S  |
| Deck Spindle (Rotary)   | Grease Gun  | Tiger Spindle<br>Lubricant   | Mobilith SHC 220   |

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

Tiger PN 34852

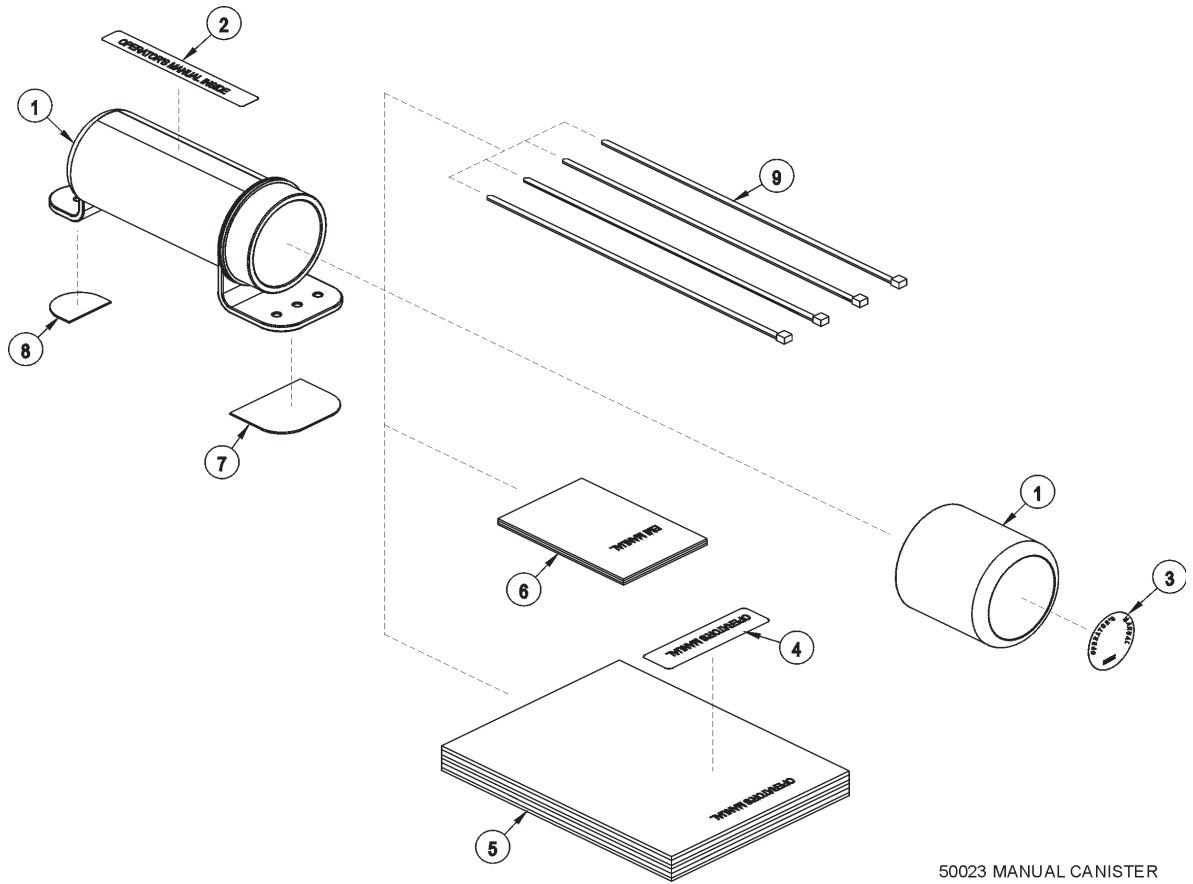
34852

HYDRAULIC TANK

|   |          |  |
|---|----------|--|
| <b>DANGER</b>   |          | <b>PELIGRO</b>   |
| <b>THROWN OBJECT HAZARD</b>   |          | <b>RIESGO DE OBJETO LANZADO</b>  |
| Do not operate mower when cutter shaft is in reverse rotation unless: <ul style="list-style-type: none"> <li>Reverse Rotation Front Guard is in place, and</li> <li>Guard is in good condition</li> </ul> |          | No funcione el cortacésped cuando el eje de cortador esta en rotación inverso al menos que: <ul style="list-style-type: none"> <li>El Guardia Delantero de Rotación Inversa esta en su lugar y</li> <li>El guardia esta en buenas condiciones</li> </ul> |
| Reverse Rotation Front Guard  | 06550054 | Guardia Delantero De Rotación Inverso  |

D538  
ON MOWER HEAD

# SAFETY



50023 MANUAL CANISTER

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

**NOTE:**

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

# SAFETY

## FEDERAL LAWS AND REGULATIONS

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

### **Employer-Employee Operator Regulations**

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

#### **This Act Seeks:**

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

#### **DUTIES**

Sec. 5 (a) Each employer-

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

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

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

#### **OSHA Regulations**

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

#### **Employer Responsibilities:**

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

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

#### **Child Labor Under 16 Years of Age**

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

# SAFETY

**ASSEMBLY SECTION**

# ASSEMBLY

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

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



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

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

## TRACTOR PREPARATION

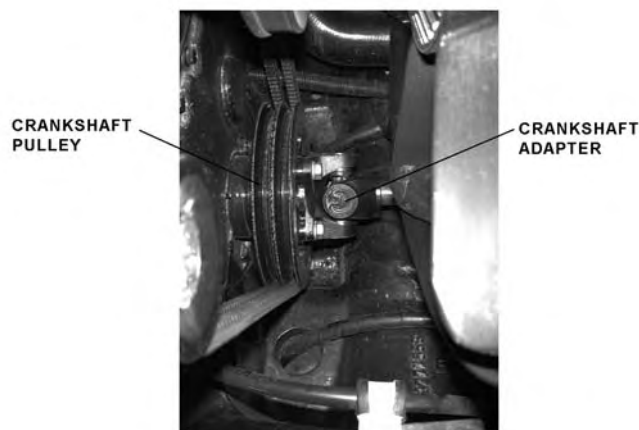
- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where main frame and pump mount will be attached.
- E. Remove any front weights and weight supports.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

(ASM-C-0024)

## CRANKSHAFT ADAPTER

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

(ASM-MF-0001)





# ASSEMBLY

## FRONT PUMP MOUNTING

Install the pump mounting bracket on the front of the tractor with capscrews and washers as shown in the Parts Section illustration. **DO NOT** tighten fasteners at this time.

Slide the pump drive shaft into the crankshaft adapter. The end with the external threads should be inserted into the adapter.

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

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

**CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP.** (ASM-MF-0002)

## ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owners manual for adjusting tires and rims.**

The wheels need to be switched to the opposite sides of tractor. The left side needs to be set to one notch in from the widest possible setting. The right side needs to be set to one notch in from the widest setting. The wheels should measure 80" center to center at this setting. Also take note of any width restrictions when transporting by trailer. For ease of installation, it is best to leave the rear wheels removed during installation of the mower. (ASM-MF-0036)

## FRAME INSTALLATION

First, remove all unnecessary equipment from the tractor. This includes: 3-point stabilizer brackets, battery box and mount, fuel tank and mount, exhaust and mount, and steps.

Assemble the frame brackets (refer to Parts Section for part numbers and hardware) to the tractor at the mid-mount points. Next, with an overhead hoist and / or jack-stands, raise one side of the mast frame up to the correctly matching mounting holes at the front of the tractor. Install capscrews and all other hardware as shown in the Parts Section to secure the sides of the frame to the tractor casting, **DO NOT** tighten at this time. Finally, using an overhead hoist and / or jack-stands, rise the Y-frame up to the rear axle and install the hardware as shown in the Parts Section. Attach the Y-frame to the Mast frame last.

After assembly, remove the capscrews one at a time in the order mentioned below and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. Tighten the Y-frame to the axle first. Secondly, tighten the mast frame to the front casting of the tractor. Next, tighten the frame brackets and finally, the long bolts attaching the Y-frame to the mast frame. (ASM-MF-0032)



# ASSEMBLY

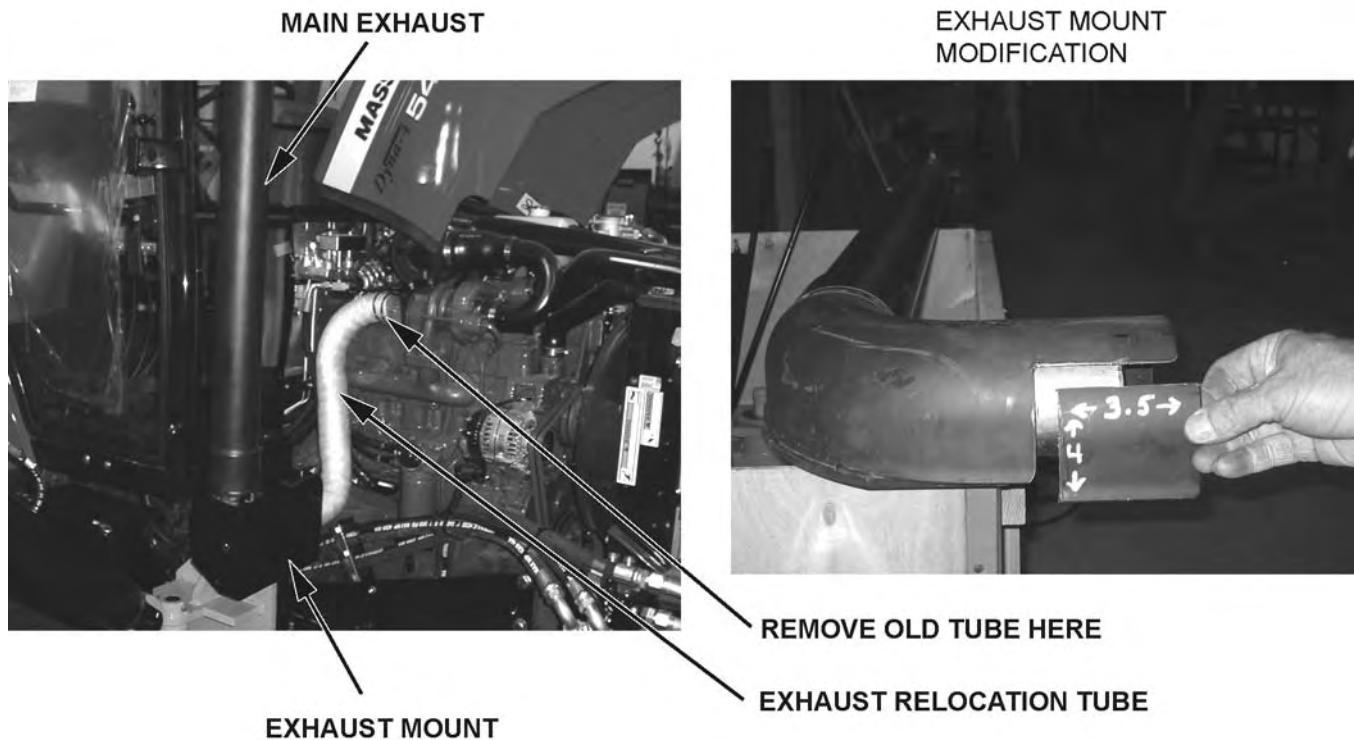
## RELOCATING TRACTOR EXHAUST

The existing MF5455 exhaust will interfere with the mast section of the Tiger main frame. To make room for the main frame the exhaust must be moved forward.

Remove the heat shield, the support and the exhaust from the engine of the tractor. The exhaust tube will be replaced with a Tiger Exhaust Relocation Tube (P/N 06430100). The Exhaust Mount will be modified, reused and bolted onto the Tiger main frame.

The hardware to attach the exhaust to the Exhaust Mount are three 12MM x 25MM Capscrews (P/N 06530527) and 1/2" SAE Flatwashers (P/N 06533004). The rest of the hardware needed is all existing.

Mark the Exhaust Mount as shown below and cut the piece to fit. After the Exhaust Relocation Tube is attached, replace the heat shield with the existing hardware. Install the Heat Shield Wrap (P/N 06520323) around the Exhaust Relocation Tube and secure with stainless steel zip ties (P/N 06537025). (ASM-MF-0035)



# ASSEMBLY

## HANDRAIL MODIFICATION

In order for the Triple Flail to be transported within 102" wide, the handrails on both sides of the tractor will need to be modified. (ASM-MF-0034)



First, pop the cover off of the top handrail mount. Next, being careful not to damage any wiring, use a saw to cut the top handrail mount as shown below. Finish cutting the handrail off by cutting the lower part of the rail as shown below.

Once the handrail is removed, grind a corner radius on the top handrail mount to match the cover that was removed. Next, cut the cover as shown above to match the profile of the top handrail mount. After checking the fit, glue the modified cover onto the top handrail mount.

The lower rail will need to be fitted with a cover Tiger P/N 06520489.

Repeat the above steps to modify the handrail on the other side of the tractor.



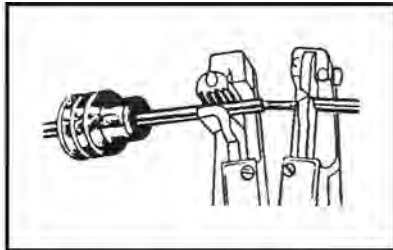
# ASSEMBLY

## WEATHER-PACK/METRI-PACK ASSEMBLY

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

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

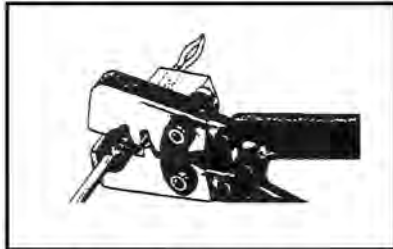
(ASM-C-0009)



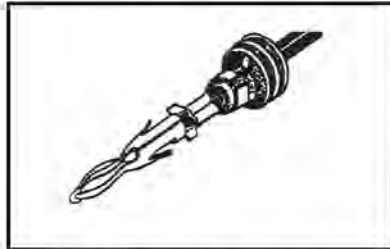
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



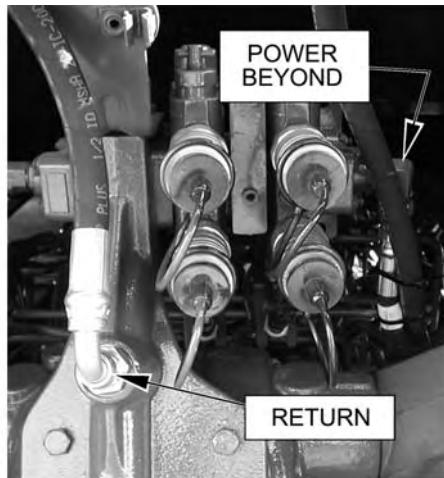
3. Put terminal in crimping tool, then



4. Crimp and visually inspect for a good

## RETURN LINE INSTALLATION

The return port is located by the rear hydraulic remotes, refer to the image below. Remove the cap on the tractor rear remotes for the return line. Refer to the parts section for the adapters and hose needed for the return line. Connect the adapters to the return ports of the tractor and the lift valve. Run the hose from the tractor to the return port of the lift valve. (ASM-MF-0008)

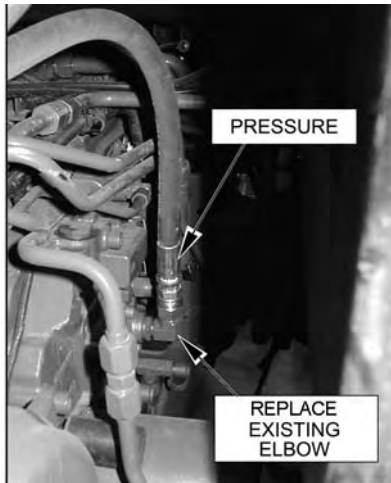


# ASSEMBLY

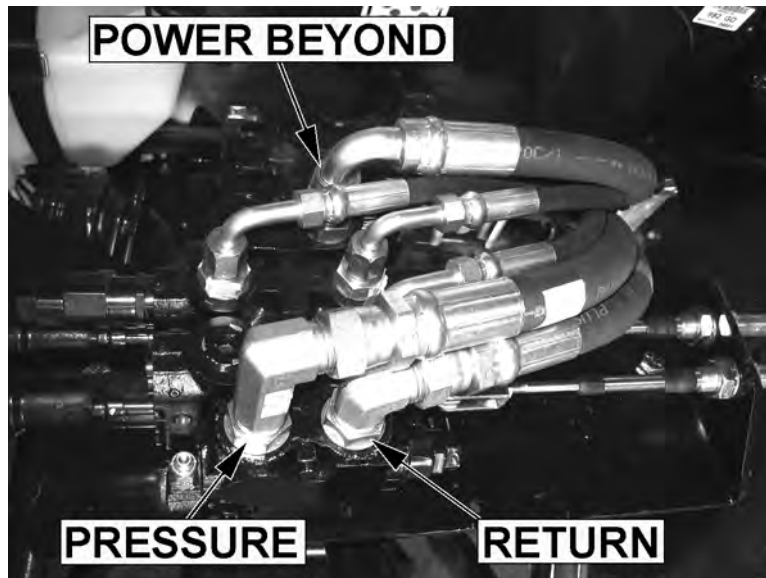
## PRESSURE LINE INSTALLATION

The Tiger lift valve used needs to access the pressure, return and power beyond ports of the tractor. The tractor comes with a factory tube connecting the tractor pump (pressure port) and the tractor rear remotes (power beyond port). To locate the ports, refer to the images below. For hardware used and additional placement information refer to the parts section. Please note the hose lengths and the fittings.

Remove the factory tube between the pump and the remotes. Install the Tiger hose from the tractor pump to the high pressure filter, located on the valve mounting bracket. Install a hose from the filter to the priority valve. (ASM-MF-0009)



## MANUAL LIFT VALVE PORTS



(ASM-NH-0116)



# ASSEMBLY

## LIFT VALVE MOUNTING

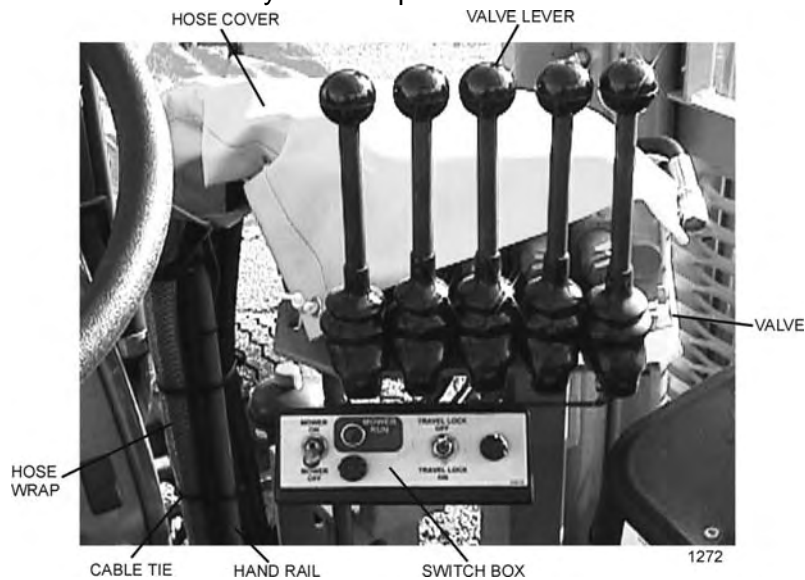
Attach the valve mounting plate to the mounting brackets. Align the holes on the plate to the holes on the brackets. Use the hardware shown in the Parts Section to attach the plate to the valve mounting brackets. Finally, place the valve on the valve mounting plate as shown in the Parts Section. Align the holes on the valve assembly to the holes on the plate. Use the hardware provided to secure the valve to the plate. Refer to the Parts Section for the placement of the valve and the hardware used. **Please handle the lift valve with care. It is extremely heavy and contains small parts.** (ASM-MF-0010)

## HIGH PRESSURE FILTER (CABLE CONTROL)

The high pressure filter is mounted to the right valve mounting bracket with hardware, as shown in the parts section. Attach the two adapters to the filter. The pressure line from the tractor is plumbed to the left (Inlet) side of the filter. The pressure hose that is attached to the right side of the filter is routed to the pressure port of the Tiger lift valve. (ASM-C-0031)

## MANUAL SWITCH BOX MOUNTING

The switch box is to be secured to the operators side of the control handles, or valve stand. Refer to the parts section for assembly and components needed.



(ASM-C-0053)

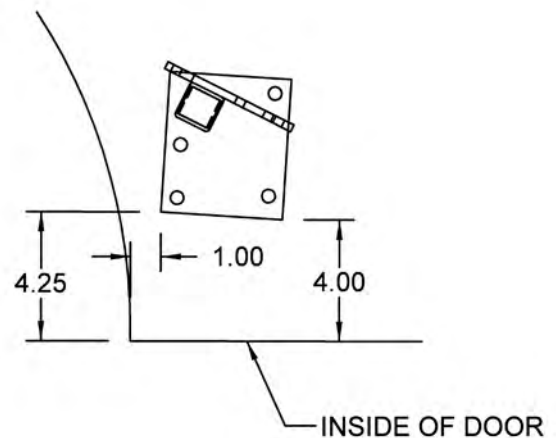


# ASSEMBLY

## CABLE CONTROL LEVER STAND

Preassemble the cable control boxes to the cable control bracket as shown in the parts section. **Use the image below for positioning the cable control bracket.** Place the front corner of the support bracket 4" from the inside right window and the rear corner from the back side as shown below. The base will sit on top of the floor mat. Be sure that the location of the stand will allow clearance between the cable control box handles and all existing interior levers, etc. Also watch out for wiring and brackets when placing the bracket for drilling and cutting.

The spacers provided are used to allow the cable control bracket to set on top of the floor mat while being held securely to the floor of the cab. Use the base of the cable control bracket to mark the floor mat for cutting. Cut the holes for the spacer with a 1" hole saw. Drill 3 holes for the capscrews using the bracket and spacers as a template. Then secure with cap-screws and nuts as noted in the parts section. (ASM-MF-0006)



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



# ASSEMBLY

## MANUAL SWITCH BOX WIRING

Route the green wires and blue wires from the switchbox to the front console panel. Refer to the parts section for wiring diagram to hook up the switch box. Cover the wires from the switch box with plastic wire wrap provided. Remove the console panel under the steering wheel to access wires. Locate the neutral safety wire. **Using a test light or meter, verify** this wire is the neutral safety wire. Cut the neutral safety wire and connect the green wires from the switch box as shown in the wiring diagram. The neutral safety connects to the ignition switch with a female spade P/N 06510218 and male spade P/N 27169 connects to the white wire with black lettering.

Run the white and black wire to the solenoid valve. Route the wires through the back window with the cable control wires. Use the rubber grommet in the window to protect the wire, and route the wire out of the cab down to the 1/4" hydraulic hoses. Follow the hydraulic hoses through the wheel well to the front of the tractor.

Route the Red 14ga wire, keyed hot, from the auxillary plug to the signal post of the continuous duty solenoid. **NOTE: Be certain that the power taken for the switch box is "HOT" only when the tractor ignition is "ON".**

The black wire from the switchbox should be routed to the auxillary plug.

The travel lock orange and black wires from the switch box should also be covered with wire wrap and should run with the white wire through the window. This wire will be connected to the electronic travel lock located on the deck roll cylinder.

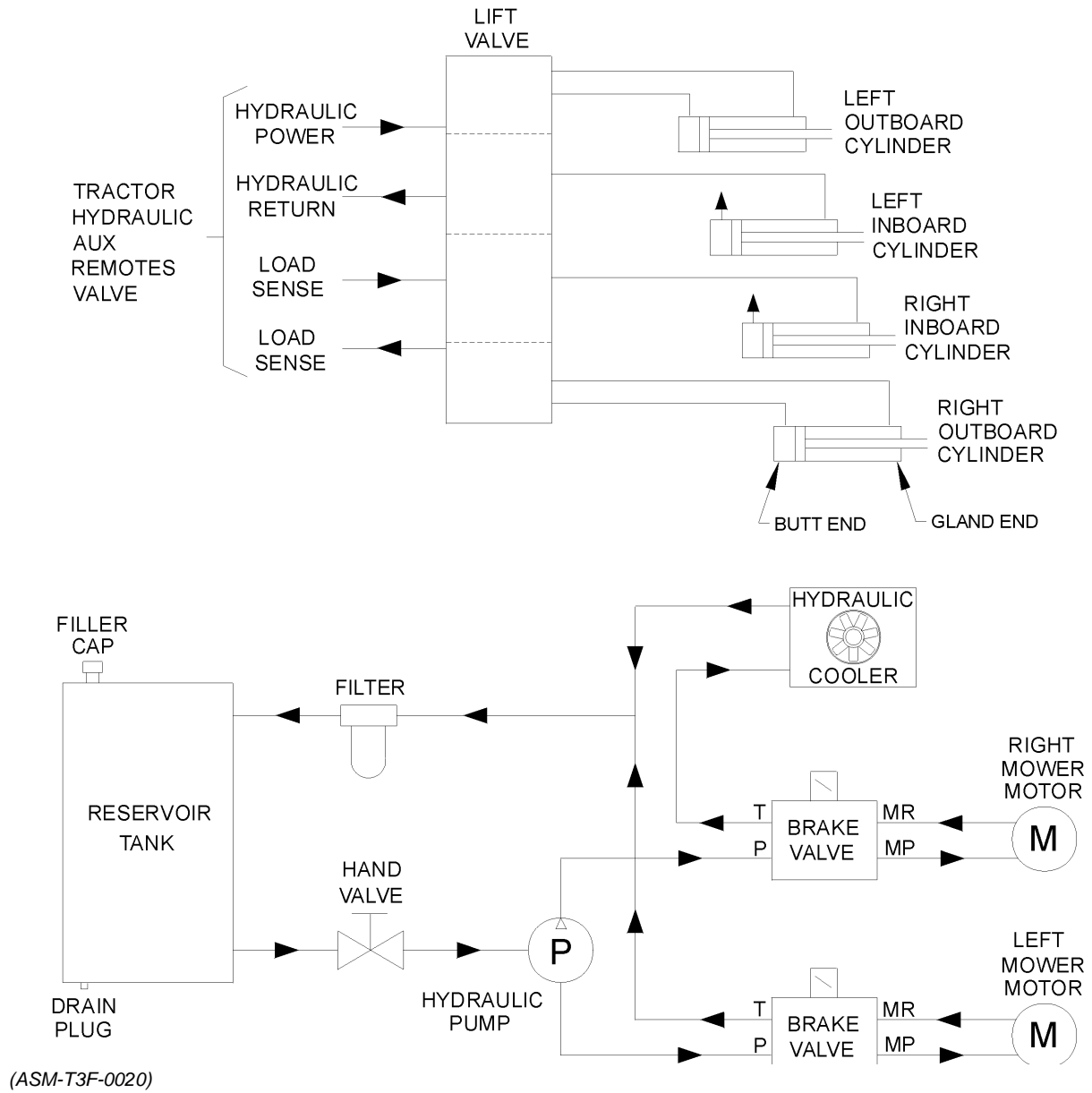
The wires from the switch box are longer than needed and should carefully cut and spliced as required. Zip ties should be used to secure the wires to the tractor framework and boom hoses to eliminate vibration and rubbing. (ASM-MF-0038)





# ASSEMBLY

## TRIPLE FLAIL HYDRAULIC DIAGRAM



# ASSEMBLY

## BUMPER TANK INSTALLATION

Install the tank mounting brackets with the hardware provided, as shown in the parts section. **DO NOT** tighten! Using a hoist or lift, raise the tank into position. Line up the holes on the tank with the holes on the mounting brackets and install the hardware. Once all mounting hardware is in place and secured, tighten the capscrews.

The pressure gauge is installed in the filter assembly with a street elbow. The breather cap is screwed into the bung hole on the top of the bumper tank as shown in the parts section.

(ASM-C-0072)



## FILLING HYDRAULIC RESERVOIR

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

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

(ASM-C-0004hydro resrv)

## INSTALLING O-RING FITTINGS

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

## INSTALLING NATIONAL PIPE FITTINGS

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



# ASSEMBLY

## GENERAL HOSE INSTALLATION

Refer to the parts section for detailed information about hoses and fittings for this application.

*(ASM-C-0011)*

## HOSE COVERING

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

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

## SOLENOID BRAKE VALVE

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

## TEMPERATURE GAUGE MOUNTING (OPTIONAL)

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



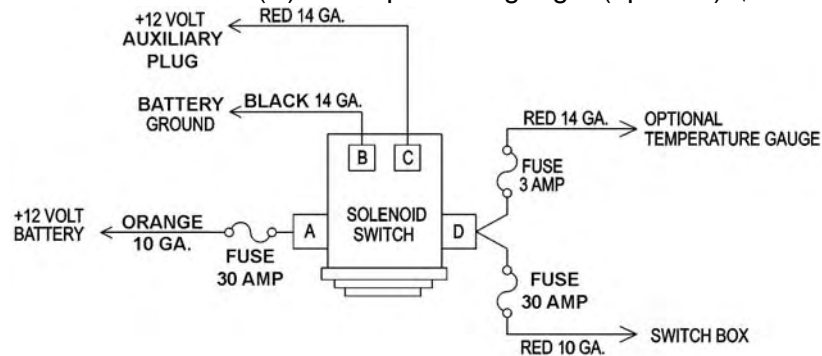
# ASSEMBLY

## CONTINUOUS DUTY SOLENOID SWITCH

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

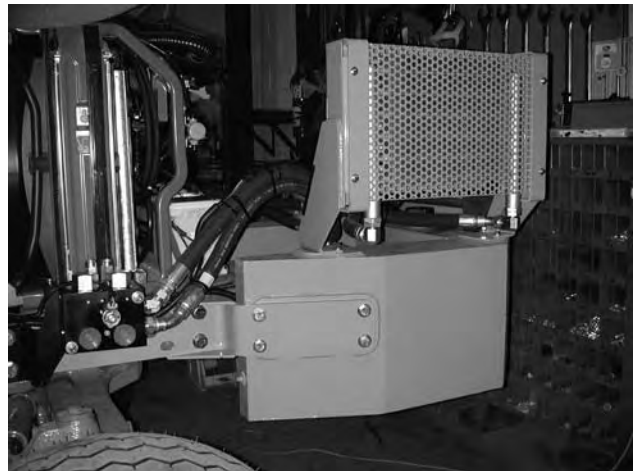
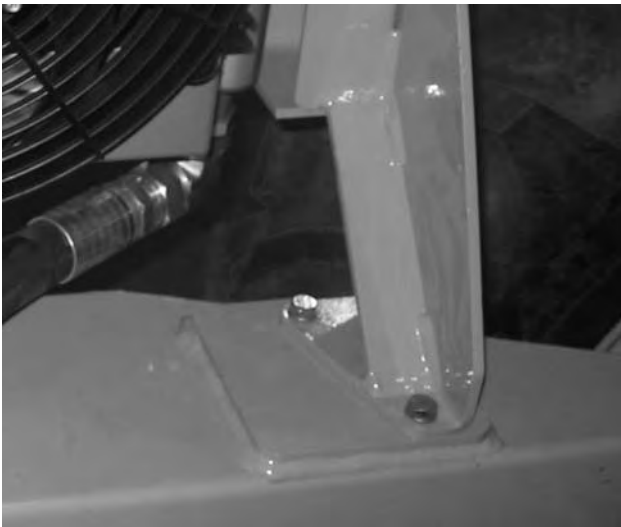
Route wires to and from the Continuous Duty Solenoid Switch as shown below.

- A.) ORANGE 10 GA. wire from terminal (A) to +12V battery fusible link.
- B.) RED 14 GA. wire from terminal (C) to tractor plug in cab.
- C.) BLACK 14 GA. wire from terminal (B) to -12V battery post.
- D.) RED 10 GA. wire from terminal (D) to switch box.
- E.) RED 14 GA. wire from terminal (D) to temperature gauge. (optional). (ASM-NH-0032)



## COOLER MOUNTING - BUMPER TANK

Mount the cooler mounting brackets on the top right side of the bumper hydraulic tank. Locate bolt plates on the top of the tank and secure the appropriate cooler bracket to the tank with the hardware provided. Attach the screen and cooler to the brackets. Refer to the parts section to connect the hoses to the cooler. (ASM-C-0073)



# ASSEMBLY

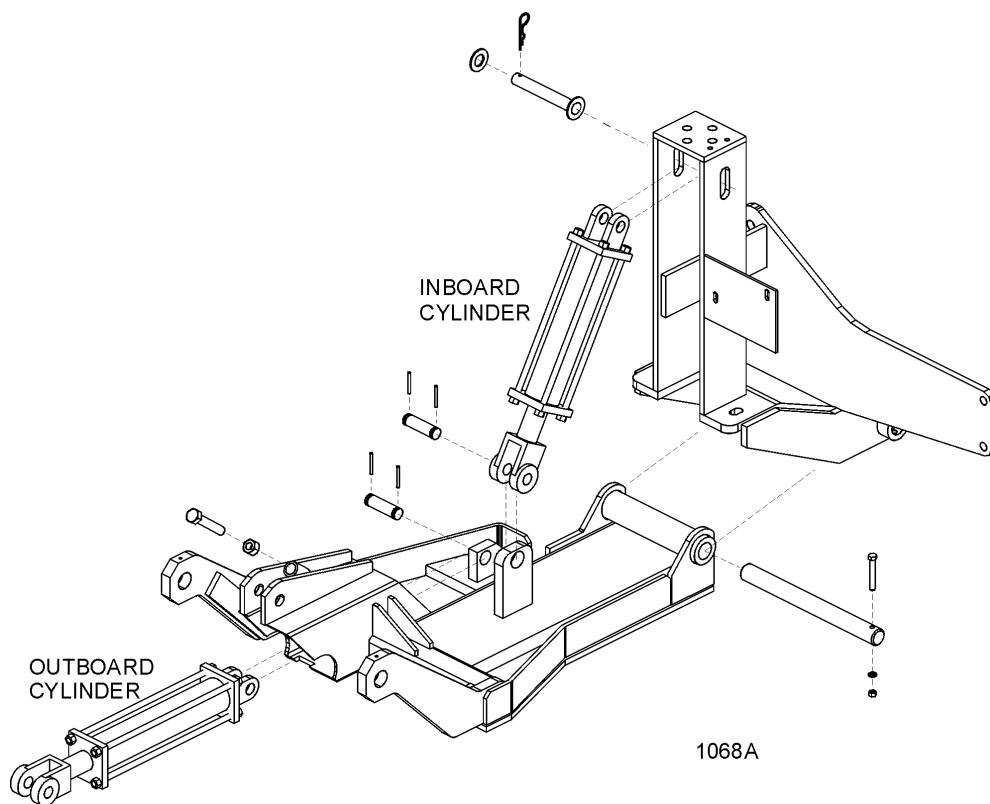
## COMBO LIFT DRAFT BEAM INSTALLATION

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

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

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

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



## DRAFT BEAM MOUNTING

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

Using inboard cylinder as a pivot point, slide draft beam under tractor and install draft beam pin. Align hole in draft beam pin with holes in main frame boss and install cap-screw, lock-washer and hex nut. (ASM-SIDE MNTS-0001)



# ASSEMBLY

## LIMIT SWITCH MOUNTING

### ASSEMBLING LIMIT SWITCH

Mount bracket 1-5/8" down from top edge on the inside of the rear arm of the draft beam, (Fig. A) square with inside corner as shown with the square corners against arm. Weld plate no more than 5/8" x 1/4" on top as shown.

Assemble limit switch with wheel on body side of arm and with the rear of arm mount aligned with fourth notch on arm as shown in Fig. C. Fasten limit switch cam to bonnet with the 7/16" x 3-1/2" pin bolt and flatwasher as shown in Fig. D.

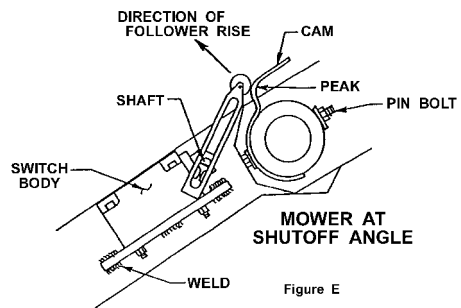
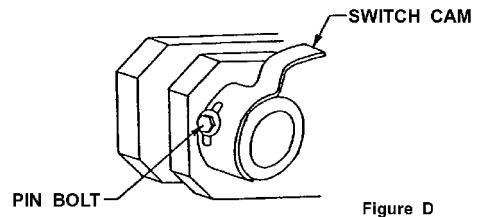
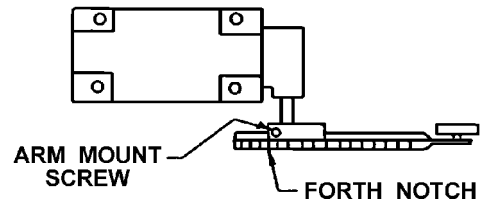
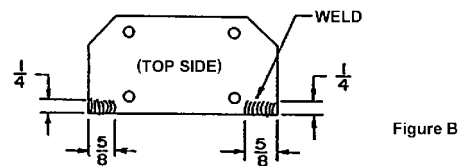
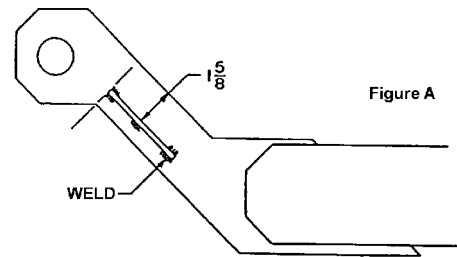
### ADJUSTING LIMIT SWITCH

To adjust switch do as follows:

1. With cam in place and pin bolt installed, raise mower to desired shutoff angle.
2. With pin bolt loosened turn cam until roller follower just reaches peak (see Figure E) and tighten pin bolt.
3. With switch arm mount screw (see Figure C) loose turn shaft (see Fig. E) with screwdriver in direction of follower rise while holding follower against cam peak until switch clicks off and hold while tightening arm mount screw.

### WIRING LIMIT SWITCH

Remove top cover on switch to expose terminals. Connect red wire to either of the back terminals, and the black wire to the other back terminal. Cut the white wire to solenoid valve at a place closest to the tilt-angle switch. Connect the red wire to one of the cut ends and the black wire to the other end. This connects the switch in series with the solenoid valve. (ASM-C-0028)



# ASSEMBLY

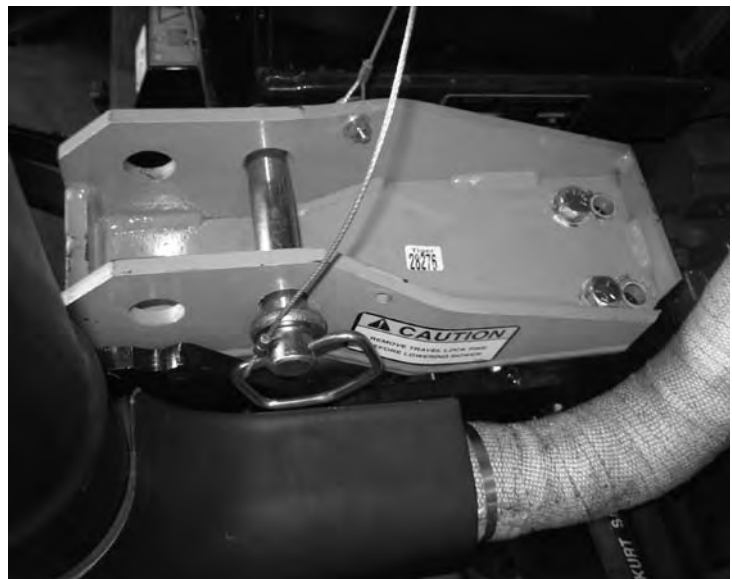
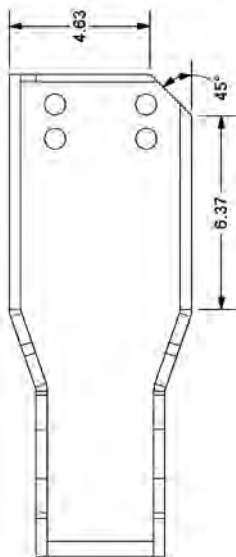
## LIMIT SWITCH

(ASM-C-0029)



## TRAVEL LOCK MODIFICATION

In order to prevent interference with your tractor exhaust, the Travel Lock Bracket on the left side of the tractor will need to be modified. You will need to use a saw or torch and cut the Travel Lock Bracket to the dimensions shown below. (ASM-MF-0037)



# ASSEMBLY

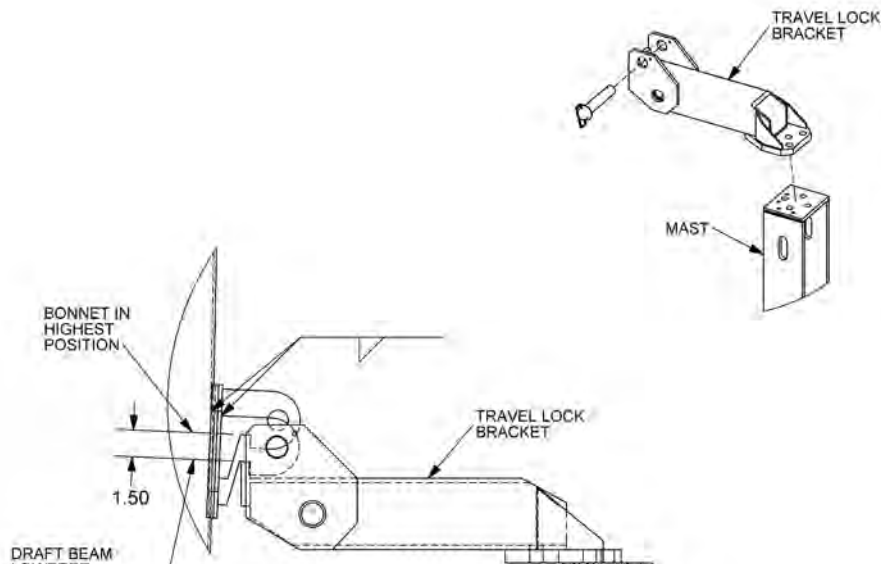
## TRAVEL LOCK INSTALLATION

Your side flail bonnet(s) may have come without the travel lock hook welded on. This is done after assembly to ensure a proper fit to your equipment. Follow the following steps to attach the travel lock. Make sure to wear the proper personal protection equipment.

1. Mount the left and/or right travel lock brackets loosely to each side of the mast frame.

Refer to the Parts Section in this manual for part information.

2. Raise flail bonnets up to their highest position.
3. Lower draft beam cylinders 1-1/2 inches for travel lock hook clearance.
4. Mount the hook to the travel lock bracket with travel lock pin in place.
5. Line up the travel lock plate so that it is centered with the travel lock hook on each side.
6. Weld the plates to the bonnets.
7. Weld the hooks to the plates. (ASM-T3F-0025)



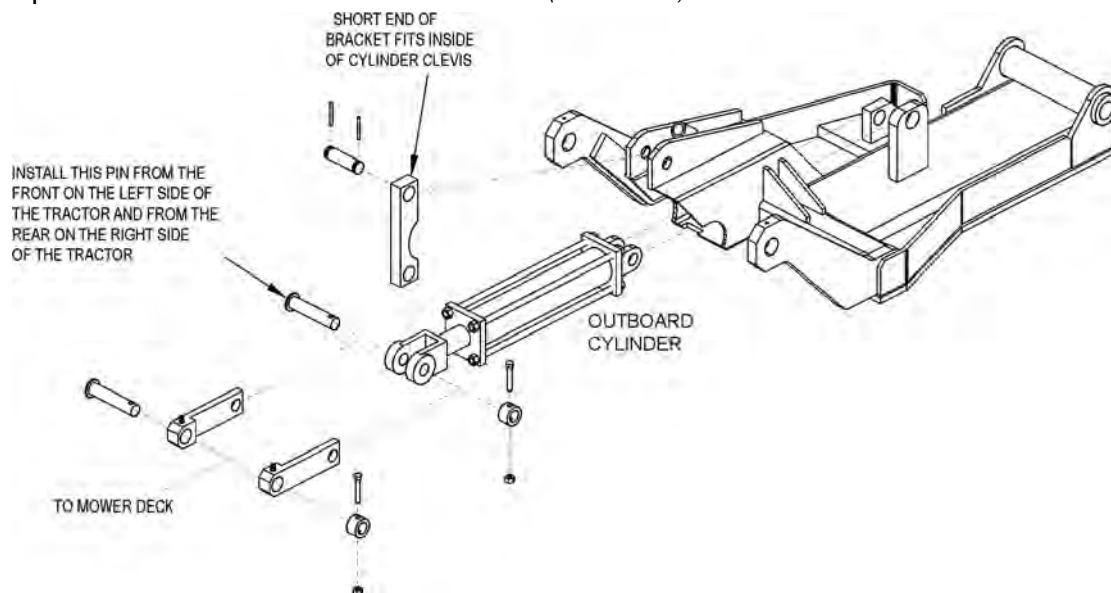


# ASSEMBLY

## MOWER MOUNTING

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

Using a clevis pin and roll pins, connect the pivot arm to clevis on draft beam. **NOTE:** Make sure the longer distance between the cutout and the end of the pivot arm is closest to the draft beam pivot ears on the center tube as shown in the diagram below. Also make sure the cutout on the pivot arm faces into tube of draft beam. (ASM-C-0077)



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

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

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

## LIFT CONTROL FEEDLINES

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

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

Install a hose from the upper or outer valve port to the restrictor on the outboard cylinder butt. See Parts Section for part numbers and hose routing illustrations. (ASM-C-0093)



# ASSEMBLY

## DECK / MOTOR FEEDLINE

Install the 1" hoses from the motor to the solenoid valve. Refer to the parts section for detailed information about hoses and fittings for this application.

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

Be sure that all grease zerks are installed in the draft beam pin bosses. Grease all areas of the draft beam according to the instructions in the maintenance section. Re-check all fittings for tightness.

Fill hydraulic tank with fluid as recommended in the Maintenance Section. **BE SURE TO OPEN THE BALL VALVES.** Start the tractor and operate the inboard cylinder through the entire stroke and the outboard cylinder through the bottom  $\frac{3}{4}$  stroke repeatedly to clear the lines of air. **DO NOT run outboard cylinder out to full stroke until stop bolt has been adjusted!**

Check for oil leaks at all fittings and connections using a piece of paper or cardboard. If a leak is found, you must shut down the tractor and set the cutter head on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines. **DO NOT USE HANDS TO CHECK FOR FLUID LEAKS!**

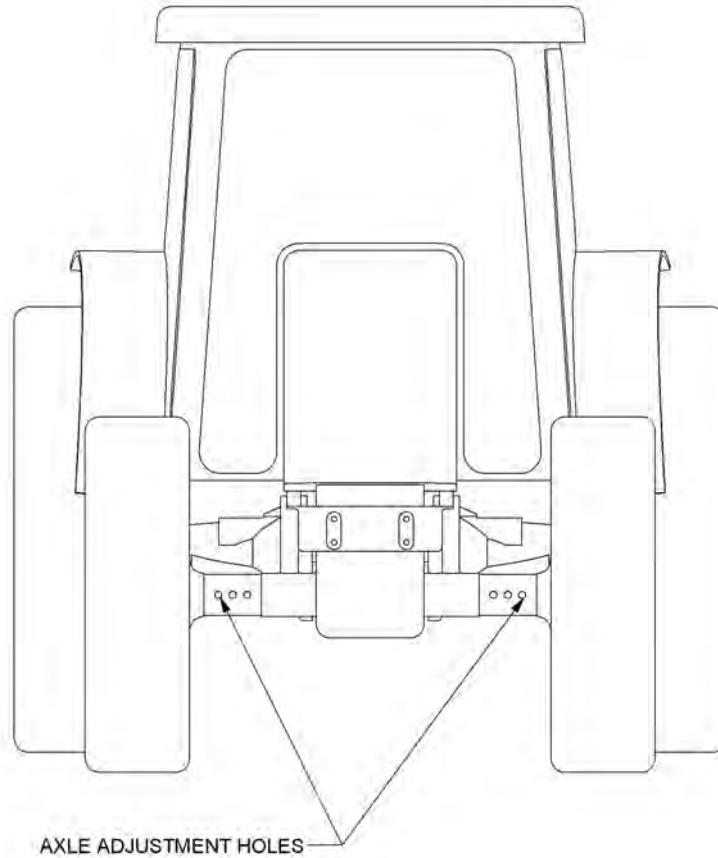
Raise the three point hitch and check the tractor internal hydraulics, fill to proper level if needed. (ASM-C-0079)



# ASSEMBLY

## 2WD FRONT AXLE ADJUSTMENT

In order to prevent interference with mounted equipment, the front axle on a 2WD MF5455 tractor will have to be adjusted outwards by 3 holes on each side (see illustration below). Double check the wheel spacing after adjustment by oscillating and turning the tires fully to check for interference. (ASM-MF-0014)



# ASSEMBLY

## FINAL PREPARATION FOR OPERATION

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

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



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

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

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

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

## MOWER TESTING

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

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



# OPERATION SECTION

Operation Section 3-1

# OPERATION

## TIGER TRIPLE FLAIL MOWER OPERATING INSTRUCTIONS

Tiger Triple flail mowers are manufactured with quality material by skilled workers. These mowers are designed for cutting grass and small weeds. The mower is equipped with protective deflectors to prevent objects being thrown from the mower by the blades, however, no shielding is 100% effective. All shields, guards, and deflectors equipped on the mower must be maintained in good operational condition.

It is the operator's responsibility to be knowledgeable of all potential operating hazards and to take every reasonable precaution to ensure oneself, others, animals, and property are not injured or damaged by the mower, tractor, or a thrown object. Do not operate the mower if passersby, pets, livestock, or property are within 100 yards of the unit.

This section of the Operator's Manual is designed to familiarize, instruct, and educate safe and proper mower use to the operator. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a Triple flail mower and are not specific to any model. Some pictures may show shields removed for picture clarity. NEVER operate implement without all shields in place and in good operational condition. The operator must be familiar with the mower and tractor and all associated safety practices before operating the mower and tractor. Proper operation of the mower, as detailed in this manual, will help ensure years of safe and satisfactory use of the mower.

**IMPORTANT:** To avoid mower damage, retorque all bolts after the first 10 hours of operation. Refer to the Torque Chart at the end of the Maintenance Section to ensure bolts are properly tightened.

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

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

**SAFETY  
INSTRUCTIONS**



**PELIGRO**

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

**¡ LEA EL  
INSTRUCTIVO!**



# OPERATION

## 1. OPERATOR REQUIREMENTS

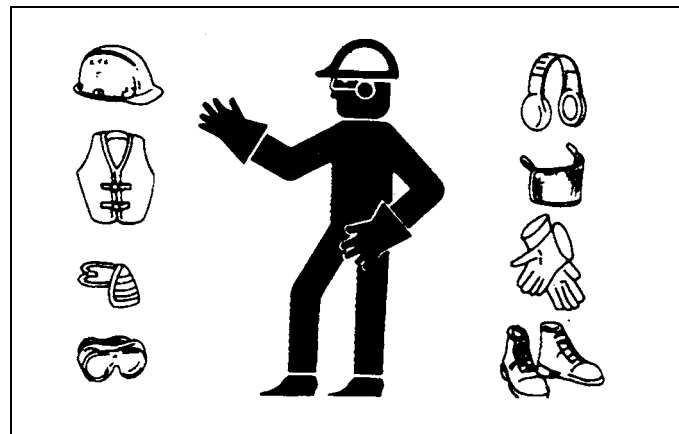
Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained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

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

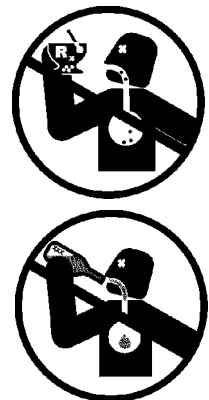
Safe operation of equipment requires that the operator wear approved Personal Protective Equipment (PPE) for the job conditions when attaching, operating, servicing, and repairing the equipment. PPE is designed to provide operator protection and includes the following safety wear:

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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



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



# OPERATION

## 2. TRACTOR REQUIREMENTS

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

### **Tractor Requirements and Capabilities**

- ASABE approved Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt.
- Tractor Safety Devices ..... Slow Moving Vehicle (SMV) emblem, lighting, PTO master shield
- Tractor Horsepower..... 65 HP Min Recommended
- Power Take Off..... 540 RPM

### 2.1 ROPS and Seat Belt

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



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



### 2.2 Tractor Safety Devices

If transporting or operating the tractor and implement near a public roadway, the tractor must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem which are clearly visible from the rear of the unit. Lights and a SMV emblem must be equipped directly on implements if the visibility of the tractor warning signals are obscured.

Maintain all manufacturer equipped safety shields and guards. Always replace shields and guards that were removed for access to connect, service, or repair the tractor or implement. Never operate the tractor PTO with the PTO master shield missing or in the raised position. *OPS-U- 0004*

### 2.3 Tractor Horsepower

The horsepower required to operate the mower depends on many factors including the vegetation to be cut, terrain condition, operator experience, and condition of the mower and tractor. For most mowing condition, the Triple Flail mowers require a tractor with at least 65HP. Operating the mower with a tractor that does not have adequate power may damage the tractor engine.



# OPERATION



**DO NOT** use a PTO adapter to attach a non-matching Implement driveline to a Tractor PTO. Use of an adapter can double the operating speed of the Implement resulting in excessive vibration, thrown objects, and blade and implement failure. Adapter use will also change the working length of the driveline exposing unshielded driveline areas. Serious bodily injury and/or equipment failure can result from using a PTO adapter. Consult an authorized dealer for assistance if the Implement driveline does not match the Tractor PTO. (S3PT-14)



For non-independent PTO tractors - Never operate the Tractor and Mower if the Implement input driveline is directly connected to the Tractor transmission. Tractor braking distances can be substantially increased by the momentum of the rotating Mower blades driving the Tractor transmission even though the Tractor clutch has been disengaged. Install an over running clutch between the Tractor PTO and the Mower driveline to prevent this potentially dangerous situation. (S3PT-16\_A)

## 3. GETTING ON AND OFF THE TRACTOR

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



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



### 3.1 Boarding the Tractor

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

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



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



# OPERATION



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



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



OPERATION

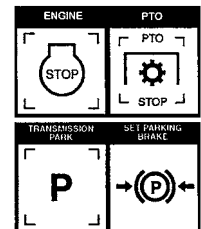
## 3.2 Dismounting the Tractor

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

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



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



# OPERATION

## 4. STARTING THE TRACTOR

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

Essential Tractor Controls:

- Locate the ignition key/switch
- Locate the engine shut off control
- Locate the hydraulic control levers
- Locate the light control lever
- Locate the brake pedals and clutch
- Locate the PTO control
- Locate the 3 point hitch control lever
- Locate the operating controls

Before starting the tractor ensure the following:

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

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



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



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)



## 5. CONNECTING THE MOWER TO THE TRACTOR

Use extreme caution when connecting the mower to the tractor. The mower should be securely resting at ground level or setting on blocks. Keep hands and feet from under the mower deck and clear of pinch points between the tractor hitch arms and mower pins. OPS-R-0001

# OPERATION



Always shut the Tractor completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement and Tractor hitches. (S3PT-15)

## 5.1 Connecting the Rear Flail to the Tractor

1. Make sure the tractor is equipped with the correct PTO shaft. Change shafts if needed.
2. Shorten or remove the tractor drawbar to avoid interference when raising and lowering the mower.
3. Board the tractor and start the engine. Position the tractor to the mower with the 3-point lift arms positioned between the respective set of mower A-frame lift lugs. **Note:** Set the 3-point lift control to "Position Control" so that the lift arms maintain a constant height when attaching the mower. See the tractor Operator's Manual for correct settings when attaching 3-point equipment.
4. Turn off the tractor engine and dismount.
5. One lift arm at a time, align arm end hole between the set of A-frame lift lugs. Insert hitch pin through the lug and arm holes and insert retaining pin into hitch pin.
6. Walk around to opposite side and repeat procedure for remaining lift arm and hitch pin.
7. Extend or retract 3-point top link to align its end hole with the holes of the mower's top link. Insert the top link hitch pin and insert retaining pin into hitch pin.
8. Adjust any lower link check chains, guide blocks, or sway blocks to prevent the mower from swaying side to side and possible contact with tractor rear tires.



# OPERATION

## 5.2 Connecting the Side Flails to the Tractor

1. Install the Draft Beam onto the Main Frame.
2. Raise the Draft Beam to line up with the the 'ears' on the Side Flail and install Pins and hardware.
3. Connect the Linkage and Cylinder to the Side Flail for a Combo Lift set-up or route and connect the cable to the Side Flail if it's a Cable Lift set-up.
4. Route and connect the hydraulic lines to the cylinders and from the Brake Valve to the Side Flail motor.



### **WARNING**

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



### **WARNING**

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

### **DANGER**

**DO NOT** allow any person under a side mower unless mower is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-03\_A)



# OPERATION

## 6. SETTING THE MOWER

Properly setting the cutting height is essential for efficient and safe operation. A properly set mower will make a more uniform cut, distribute clippings more evenly, require minimal tractor work, and follow the contour of uneven terrain. **NOTE:** Avoid very low cutting heights, striking the ground with the blades gives the most damaging shock loads and will cause damage to the mower and drive. Blades contacting the ground may cause objects to be thrown out from under the mower deck. Always avoid operating the mower at a height which causes the blades to contact the ground. OPS-U- 0010



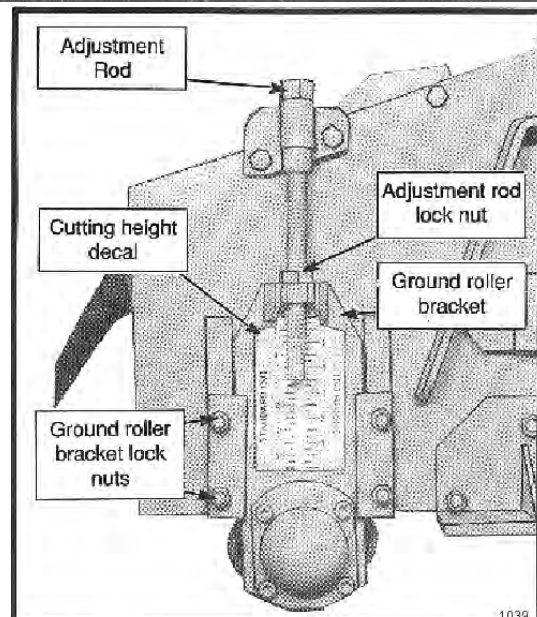
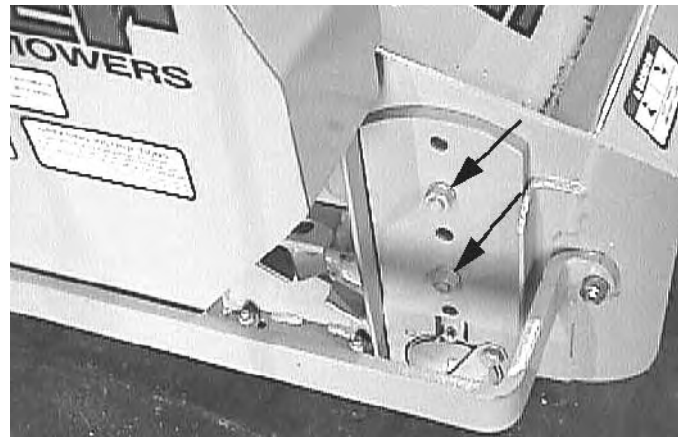
Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death. (SG-14)



### 6.1 Roller Height Adjustment

5. The mower's cutting height is set by positioning the roller assembly for each mower section. Each section must be set at the same height to ensure an even cut across the entire width of the mower.
6. Place the tractor and mower on a level surface and completely lower the mower to the ground.
7. Shut down the tractor, place the transmission in park, and set the parking brake before dismounting.
8. One section at a time, place lifting device (scissors jack or hydraulic jack) under center of cutter housing.
9. Remove hex nuts, washers and carriage bolts from brackets at each end of roller. Make certain that roller bracket is free to move once the fasteners are removed. A stuck roller could drop unexpectedly and cause injury.
10. For Standard Duty flails, use lifting device to reposition cutter housing to desired cutting height. Align bracket holes with cutter housing, then reinstall hardware.
11. For Heavy Duty flails, loosen the Adjustment rod lock nut and adjust height by turning the Adjustment Rod. Retighten the Adjustment rod lock nut and then reinstall hardware.
12. Lower cutter housing to the ground and remove lifting device.
13. Set cutting height according to procedures above for remaining two cutter sections. Make sure that all three rollers are set at the same height to ensure a even cut across the entire width of the mower.

Standard Duty



Heavy Duty

TRIPLE FLAIL

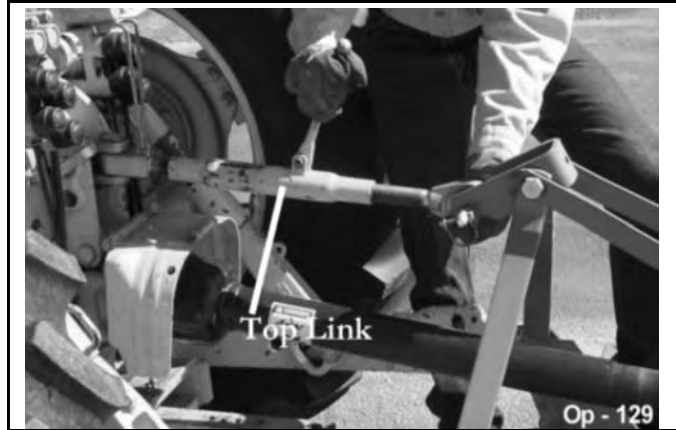
Operation Section 3-10

# OPERATION

## 6.2 Leveling Deck

To facilitate a safe and efficient mowing operation, the mower should be operated parallel to the ground at all times. Never operate if front or rear of mower is tilted upward. Objects may be discharged at high speeds causing possible injury or even death.

Adjust Top Link to level mower roller adjustment. Side Skid Shoes should always be parallel to ground throughout the full adjustment range. Adjust cutting height of machine by raising or lowering rear roller as specified in Operation Section.



**WARNING** Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07)



## 7. DRIVELINE ATTACHMENT

The driveline yoke and tractor PTO shaft must be dirt free and greased for attachment.

To connect the mower driveline to the tractor PTO output shaft, pull the driveline yoke collar back and align the grooves and splines of the yoke with those of the PTO shaft. Push the driveline yoke onto the PTO shaft, release the locking collar, and position the yoke until the locking collar balls are seated onto the PTO shaft. Push and pull the driveline back and forth several times to ensure a secure attachment.



After the driveline is securely attached, place the tractor PTO master shield back in the operating position. OPS-R-0003

### Driveline Length Check



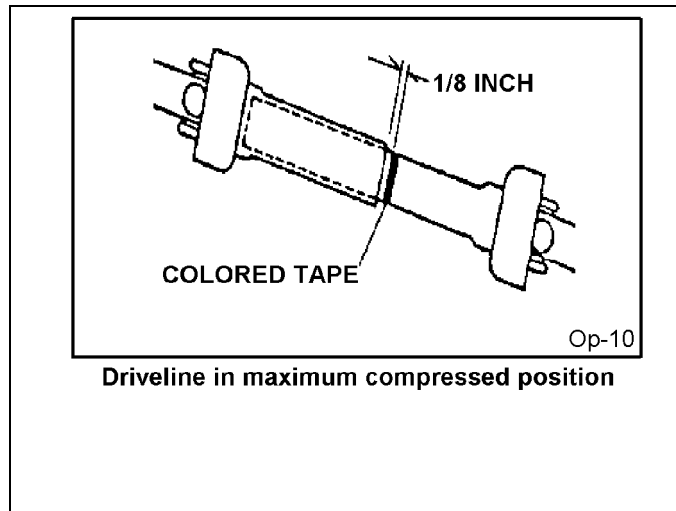
**WARNING** Before operating the Implement, check to make sure the Implement input driveline will not bottom out or become disengaged. Bottoming out occurs when the inner shaft penetrates the outer housing until the assembly becomes solid-it can shorten no more. Bottoming out can cause serious damage to the Tractor PTO by pushing the PTO into the Tractor and through the support bearings or downward onto the PTO shaft, breaking it off. A broken driveline can cause personal injury. (S3PT-18)

# OPERATION

When fitting the mower to the tractor, the telescoping driveline must be inspected to ensure that at its most compressed position, the profiles do not “bottom out”, and when at its farthest extended position, there is sufficient engagement between the profiles to operate safely. At its shortest length, there must be at least a 1” clearance between each profile end and opposite profile universal joint. At its farthest operating extension, a minimum profile engagement of 12” must be maintained.

## “Bottoming Out” Check Procedure

- Disconnect driveline from the tractor and slide the profiles together until fully compressed.
- Place a mark on the inner shield 1/8” from the end of the outer shield and reattach the driveline to the PTO Shaft.
- With the **PTO NOT TURNING**, slowly drive the tractor with mower attached through the sharpest turn possible and watch shaft movement. With the **PTO NOT TURNING**, slowly drive the tractor with the mower attached through the most severe terrain conditions expected and watch shaft movement.
- If the distance between the mark and the outer shield becomes less than 2” at any point there is a potential problem bottoming out the driveline and the driveline should be shortened.  
*OPS-F-0001*

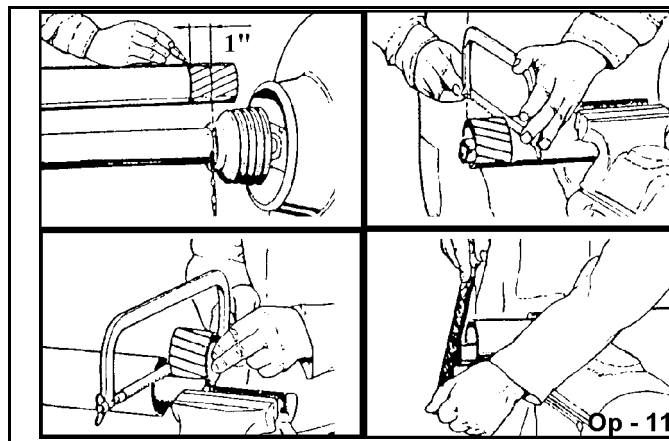




# OPERATION

## Shorten the driveline profiles as follows:

- Remove the driveline from the tractor.
- Position the mower to the point with the shortest distance between the tractor PTO shaft and cutter gearbox. Shut down the tractor and securely block the mower in this position.
- Pull driveline apart and reattach yoke to PTO shaft.
- Hold driveline sections parallel to one another and measure back 1" from yoke of each shaft and place mark on opposite section. Cut this length off with a saw.
- Round off all sharp edges and debur.
- Thoroughly grease then reinstall the driveline.
- Recheck for proper operation.



## Engagement Check Procedure

- With the driveline attached, position the mower to the point where the telescoping driveline is at its maximum extension. Completely shut down the tractor and secure in position.
- Mark the inner driveline shield 1/8" from the end of the outer shield.
- Disconnect the driveline from the tractor and separate the two driveline halves.
- Measure the distance from the mark to the end of the inner profile. This length is the amount the driveline profiles were engaged.
- If the engaged length is less than 12" the shaft is considered too short and should be replaced with a longer shaft. Consult an authorized dealer to purchase the required driveline length.

**NOTE:** If the driveline cannot be shortened and still maintain the required profile engagement, the operator must be made aware of terrain conditions and avoid situations which pose a potential problem to avoid damaging the driveline. OPS-F-0002

## 8. PRE-OPERATION INSPECTION AND SERVICE

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



Always disconnect the main PTO Driveline from the Tractor before performing service on the Mower. Never work on the Mower with the tractor PTO driveline connected and running. Blades or Drivelines could turn without warning and cause immediate entanglement, injury or death. (SRM-3)

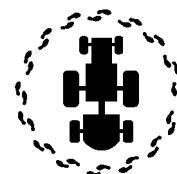
# OPERATION



**DO NOT** allow any person under a side mower unless mower is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-03\_A)



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



## 8.1 Tractor Pre-Operation Inspection/Service

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

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



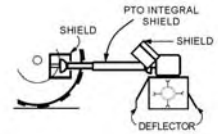
# OPERATION

## 8.2 Mower Pre-Operation Inspection/Service

Before each mower use, a complete inspection and service is required to ensure the mower is in a good and safe working condition. Damaged and/or broken parts should be repaired and/or replaced immediately. To ensure the mower is ready for operation, conduct the following. OPS-R-0007



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, 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. (SFL-5)



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

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

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



- Check that the main driveline securely attached to the tractor and the locking collar is seated in the groove of the PTO Shaft.
- Ensure side mower hydraulics are secure at both ends. OPS-F- 0003\_A



# OPERATION

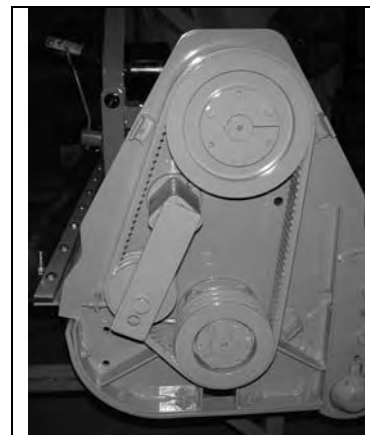
## OPERATION

- Ensure rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure the rollers are in good condition and rotate freely.
- Ensure the driveline integral shield is in good condition and rotate freely.
- Inspect that all bolts and screws are in position and are properly torqued. *OPS-F- 0004*

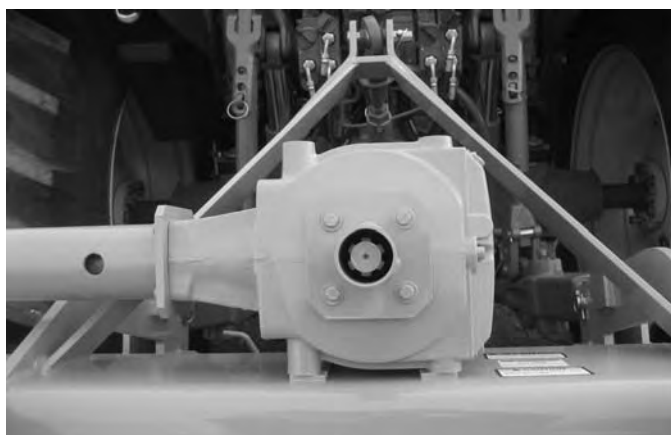


Op-255

- Inspect the condition of the side mowers and rear mower drive belts.
- Ensure the slip clutch (rear mower section only) is properly adjusted and the friction plates are not frozen together. Reference the Maintenance Section for proper slip clutch maintenance.
- Ensure the slip clutch shield and drive belts shields are in place and in good repair.
- Ensure the tractor PTO master shield is in place, lowered and in good condition. *OPS-F- 0005\_A*



- Inspect oil level in gearbox and replenish if needed. A low oil level is a warning sign that the gearbox may be cracked or its seal is damaged and needs to be replaced.
- Check the oil level in tank and replenish if need. **NOTE:** Do not fill the tank with oil above the level of the sight gauge. Over filling the tank with oil after initial filling may result in oil being discharged through the breather cap on the top of the hydraulic tank.
- Perform scheduled lubrication as specified in the maintenance section. *OPS-F- 0006\_A*



# OPERATION

- Inspect cutter knives and knife pins for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath. Replace damaged, worn, and missing knives as complete sets to maintain cuttershaft balance.
- Remove any grass or other debris which may be wrapped around the cuttershafts.
- Inspect the condition of deck skid shoes and hardware. *OPS-F- 0007*



OPERATION

# OPERATION

## Tractor PRE-OPERATION Inspection



Mower ID# \_\_\_\_\_ Make \_\_\_\_\_

Date: \_\_\_\_\_ Shift \_\_\_\_\_



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

**OPERATION**

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

Operator's Signature: \_\_\_\_\_

**DO NOT OPERATE an UNSAFE TRACTOR or MOWER**

This Inspection Form may be freely duplicated for extra copies.

# OPERATION

## Flail Mower PRE-OPERATION Inspection



Mower ID# \_\_\_\_\_ Make \_\_\_\_\_

Date: \_\_\_\_\_ Shift \_\_\_\_\_



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

**OPERATION**

| Item  | Condition at Start of Shift | Specific Comments if not O.K. |
|---|-----------------------------|-------------------------------|
| The Operator's Manual is in the canister          |                             |                               |
| All safety decals are in place and legible        |                             |                               |
| The Mounting frame bolts are in place and tight   |                             |                               |
| The connection bolts & pins are tight             |                             |                               |
| There are no cracks in mower                      |                             |                               |
| The Hydraulic Cylinders pins are tight            |                             |                               |
| The Hydraulic Pump hose connections are tight     |                             |                               |
| The Hydraulic Valve hose connections are tight    |                             |                               |
| The Hydraulic Valve controls function properly    |                             |                               |
| There are no leaking or damaged hoses             |                             |                               |
| The Hydraulic Oil level is full                   |                             |                               |
| There is no evidence of Hydraulic leaks           |                             |                               |
| The Blades are not chipped, cracked or bent       |                             |                               |
| The Blade bolts are tight                         |                             |                               |
| The Deflectors are in place and in good condition |                             |                               |
| The shields are in place and in good condition    |                             |                               |
| The Skid shoes are in good condition & tight      |                             |                               |
| The Hyd. motor mounting bolts are tight           |                             |                               |

Operator's Signature: \_\_\_\_\_

**DO NOT OPERATE an UNSAFE TRACTOR or MOWER**

# OPERATION

## 9. DRIVING THE TRACTOR AND IMPLEMENT

Safe tractor transport requires the operator possess a thorough knowledge of the model being operated and precautions to take while driving with an attached implement. Ensure the tractor has the capacity to handle the weight of the implement and the tractor operating controls are set for safe transport. To ensure safety while driving the tractor with an attached implement, review the following. *OPS-U- 0012*



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



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



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

Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum transport speed not to exceed 20 mph (30 kph) for transporting this equipment.

Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that the equipment can be operated at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum turning speed for you and this equipment before operating on roads or uneven ground.

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

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





# OPERATION

## **9.1 Starting the Tractor**

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



## **9.2 Brake and Differential Lock Setting**

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

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

OPS-U-0013



OPERATING THE SIDE MOWERS

## **9.3 Transport Position**

# OPERATION

## OPERATION

1. With tractor engine running, place ON/OFF switch(s) in "OFF" position and wait for cuttershaft(s) to stop rotating.
2. Pull LIFT control lever rearward until lift frame is as high as it will go.
3. Pull TILT control lever rearward until bracket on unit is above travel lock bracket on lift cylinder support. It takes some effort to pull TILT lever from "FLOAT" position.
4. Push LIFT control lever forward enough to lower unit slowly. Install the travel lock pin. It must pass through bracket on unit as shown in **Figure Op-258\_A**.
5. Make certain that all control levers are in "HOLD" position when transporting unit.



The mower's center of gravity is raised making the mower more prone to tipping when the side mowers are in the raised position. Use extreme caution when in the transport position and avoid uneven terrain which could upset the mower.



### **⚠ DANGER**

When the side mowers are folded for transport, the center of gravity is raised and the possibility of overturn is increased. Drive slowly and use extreme caution when turning on hillsides. Overturning the Implement could cause the Implement to overturn the Tractor and vice versa resulting in serious injury or even death. Never fold side mowers on a hillside...the Implement or unit may overturn. (STI-02\_A)

# OPERATION

## **9.4 Operating Position**

Ensure that ON/OFF switch(es) is (are) in "OFF" position. Remove travel lock pin. With tractor engine running, pull LIFT control lever rearward until bracket on cutter unit clears the travel lock bracket on lift cylinder support. Push TILT control lever forward until cutter unit is level with ground. Push LIFT lever forward enough to slowly lower unit until it touches ground, then push both levers forward to "FLOAT" position.

**NOTE:** For best mowing results and longer roller life, both LIFT and TILT levers should be in "FLOAT" position while mowing.

It takes some effort to pull TILT lever from "FLOAT" position because of detent spring.



OPERATION

The mower must be operated with the cutter sections fully lowered and the hydraulic control lever in the float detent to ensure the mower follows the contour of the ground and to prevent sections from creeping up. NEVER attempt to raise the mower while the mower is operating.

# OPERATION

## **9.5 Driving the Tractor and Implements**

Start off driving at a slow speed and gradually increase your speed while maintaining complete control of the tractor and units. Moving slowly at first will also prevent the tractor from rearing up and loss of steering control. The tractor should never be operated at speeds that cannot be safely handled or which will prevent the operator from stopping quickly during an emergency. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be difficult to control.

Drive the tractor with the 3-Point lift arms in the raised position and lock the control lever in the transport detent position to prevent damage to the mower driveline when turning.

Perform turns with the tractor and units at slow speeds to determine how the tractor with an attached mower handles a turn. Determine the safe speed to maintain proper control of the tractor when making turns.

To avoid overturns, drive the tractor with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Tractor wheel tread spacing should be increased when working on inclines or rough ground to reduce the possibility of tipping.

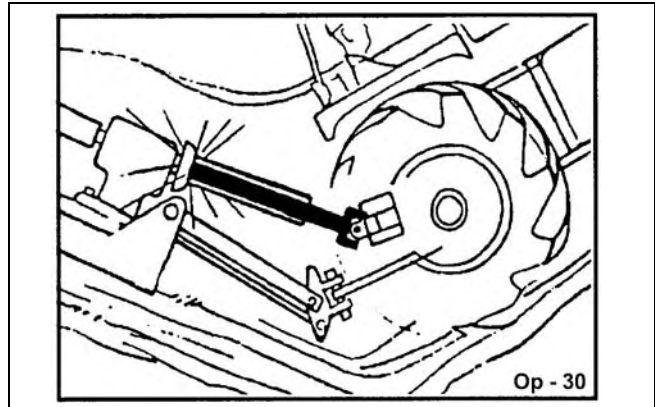
Use extreme caution when operating on steep slopes. Keep the tractor in a low gear when going downhill. DO NOT coast or free-wheel downhill.  
*OPS-F- 0009\_A*



## **9.6 Crossing Ditches and Steep Inclines**

# OPERATION

When crossing ditches with steep banks or going up sharp inclines, it is possible that the main driveline inner profile will penetrate into the outer housing to its maximum depth until the assembly becomes solid (driveline is at its extreme shortest length). This type of abusive operation can cause serious damage to the tractor and mower drive by pushing the PTO into the tractor and through the support bearings or downward onto the PTO shaft, breaking it off.

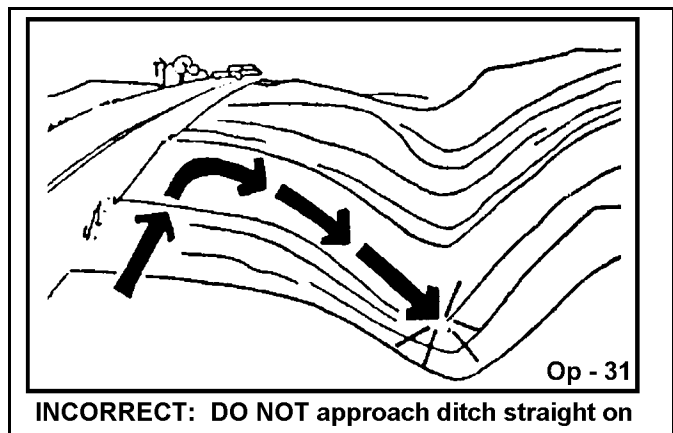


**WARNING**

Damage resulting from over-collapse of the driveline's inner profile and its outer housing may allow the driveline to come loose from the Tractor which could cause bodily injury to the operator or bystanders and/or extensive damage to the Tractor or Implement. OPS-R-0020

When confronted with an incline or ditch, do not approach from an angle which is perpendicular or straight on as damaged to over collapse of the driveline may occur.

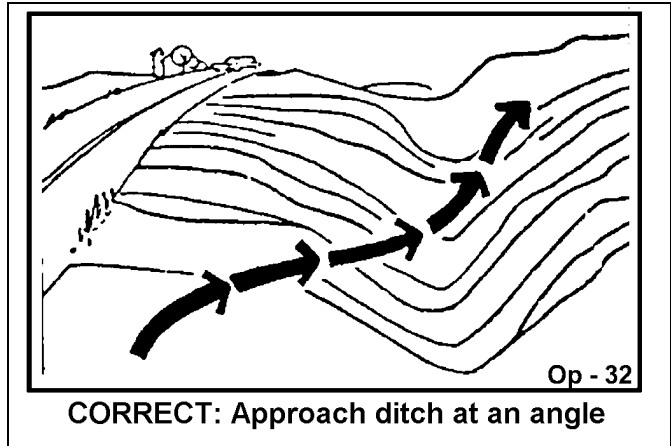
When crossing such terrain, the implement should be fully lowered for a lower center of gravity and added stability. OPS-R-0021



# OPERATION

Inclines and ditches should be approached along a line which is at an angle as shown. This type of path will reduce the possibility of over-collapse of the driveline and resulting damage. If the gradient is so steep that such an approach increases the possibility of a tractor roll-over, select an alternate crossing path.

When operating the tractor and mower across slopes and inclines, through ditches, and other uneven terrain conditions, it is important to maintain sufficient deck to ground clearance. Blade contact with the ground may cause soil, rocks and other debris to be thrown out from under the mower resulting in possible injury and/or property damage. Ground contact also produces a severe shock load on the mower drive and to the mower blades resulting in possible damage and premature wear.  
*OPS-R-0022*



## 10. OPERATING THE TRACTOR AND IMPLEMENT

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

Before starting any operation, the operator must become familiar with the area to be worked in and any obstacles and hazards contained within to ensure safety to the operator, bystanders, and equipment. Special attention should be paid to foreign debris, rough terrain, steep slopes, and passersby and animals in the area.  
*OPS-U- 0015*



Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-05)



# OPERATION

## **⚠️ 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-06)

### **10.1 Foreign Debris Hazards**

Before mowing, inspect the area to make sure there are no foreign objects that the mower blades could hit or become entangled with. Remove all foreign objects and debris. If objects are too big to remove, mark them clearly and be sure to prevent the mower blades from contacting them.

If you hit a solid object or foreign debris, stop the mower and tractor at once. Immediately idle the engine speed and disengage the PTO. Wait for all mower rotating motion to stop, then raise the mower and move the tractor and implement off the object. Inspect the area and remove, or mark the location of the debris. Inspect the condition of the mower and make any needed repairs immediately. Make sure the blades are not damaged and the carrier is balanced before resuming operation.



Always wear your seat belt securely fastened and only operate the tractor and mower with the ROPS in the raised position. If the tractor or mower hits a tree stump, rock, or bump, a sudden movement could throw you off of the seat and under the tractor and/or mower. The seat belt is your best protection from falling off the tractor and the ROPS provides protection from being crushed during a tractor roll-over. *OPS-F-0010*



### **10.2 Bystanders/Passersby Precautions**

If a bystander comes within 300 feet of the tractor while the mower is being operated, stop the tractor at once, idle the engine and disengage the PTO. Do not engage the PTO again until all bystanders are well past the 300 foot distance. *OPS-R-0024*

# OPERATION



Flail Mowers are capable under adverse conditions of throwing objects for great distances (300 feet or more) and causing serious injury or death. Follow safety messages carefully.



## STOP MOWING IF PASSERSBY ARE WITHIN 300 FEET UNLESS:

- Front and Rear Deflectors, Chain Guards, or Bands are installed and in good, workable condition;
- Mower sections are running close to and parallel to the ground without exposed Blades;
- 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. (This will also reduce power required to mow, reduce wear and tear on the Mower drivetrain, spread cut material better, eliminate streaking, and make the final cut more uniform.)* (SFL-6\_A)

## 10.3 Engaging the Power Take Off (PTO)

Before engaging the PTO, make certain that the area is clear of bystanders and passersby. The implement must be completely lowered and the deck positioned at a safe operating height. NEVER engage the PTO with the implement in the raised position.

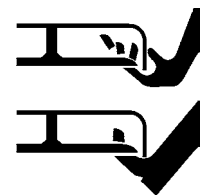
Set the tractor engine speed at approximately 1,000 RPM before engaging the PTO. Shift the PTO control to the on position, and slowly increase the engine speed until the PTO is operating at the rated speed. If you hear unusual noises or see or feel abnormal vibrations, disengage the PTO immediately. Inspect the implement to determine the cause of the noise or vibration and repair the abnormality. OPS-U- 0027



Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07)



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





# OPERATION

## **10.4 PTO RPM and Ground Speed**

Ground speed for mowing will depend upon the height, type, and density of vegetation to be cut. Recommended speed for efficient mower performance is between 2 and 5 mph(3-8 kph). Operate the mower at its full rated PTO speed to maintain blade speed for a clean cut. Refer to the tractor operator's manual or the tractor instrument panel for the engine speed and gear to provide the required PTO and desired ground speed. Make sure that the mower is operating at its full rated speed before entering the vegetation to be cut. If it becomes necessary to temporarily regulate engine speed, increase or decrease the throttle gradually.

Ground speed is achieved by transmission gear selection and not by the engine operating speed. The operator may be required to experiment with several gear range combinations to determine the best gear and range which provides the most ideal performance from the mower and most efficient tractor operation. As the severity of cutting conditions increase, the ground speed should be decreased by selecting a lower gear to maintain the proper operating PTO speed. OPS-R-0025



### **WARNING**

Do not exceed the rated PTO speed for the Implement. Excessive PTO speeds can cause Implement driveline or blade failures resulting in serious injury or death. (SG-26)



### **WARNING**

Mow at the speed that you can safely operate and control the tractor and mower. The correct mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 2 to 5 mph(3-8 kph). Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. (SGM-07)

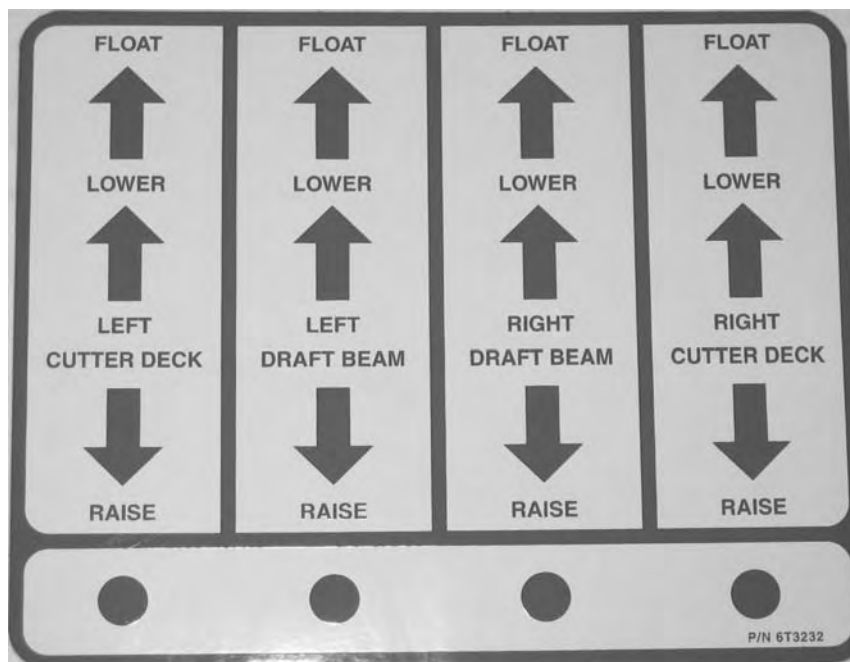
T3F DECAL

OPERATION

# OPERATION

## 11. CONTROL LOCATION AND FUNCTIONS

The left and right mower height is controlled with a four spool valve and is coordinated as shown below. Always mow with the controls in the float position. Be sure to install the travel lock pins whenever the mower is to be transported by truck and trailer.



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

The left and right mower ON/OFF switches are mounted to the four spool valve or the cable controls for cab and non-cab units respectively. Read and follow the mower operation section closely for instructions on how to operate them.

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

# OPERATION

## 11.1 Operating the Mower



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

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

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

The flail mower deck should be carried so that part of the weight is carried by the ground roller. When the flail is carried this way, the roller also follows the contour of the ground more easily during mowing operations.

When cutting small shrubs or brush, begin each pass at the top of the material and work down with each consecutive pass. Use a low speed to allow the cutting blades time to mulch as well as cut the foliage. When the initial pass has been made, disengage the mower and return the mower to the travel position. Return to the starting point and make next pass, etc. The flail head is not intended for cutting heavy brush, or for continually cutting brush. Wear or damage of the blades will occur rapidly when the flail cutter is used this way.

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

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



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

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

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

After the first day of operation, all bolts should be checked and tightened securely. This should be done periodically to ensure the bolts do not become loose and cause damage to the tractor or mower, or injury to the operator. Also, be sure to lubricate the unit as instructed in the **Maintenance Section**.

# OPERATION

## **11.2 Shutting Down the Implement**

To shut down the implement, first bring the tractor to a complete stop. Then slow down the implement by reducing the engine speed before disengaging the PTO. Wait for all motion to stop before proceeding to drive or shut down the tractor.



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



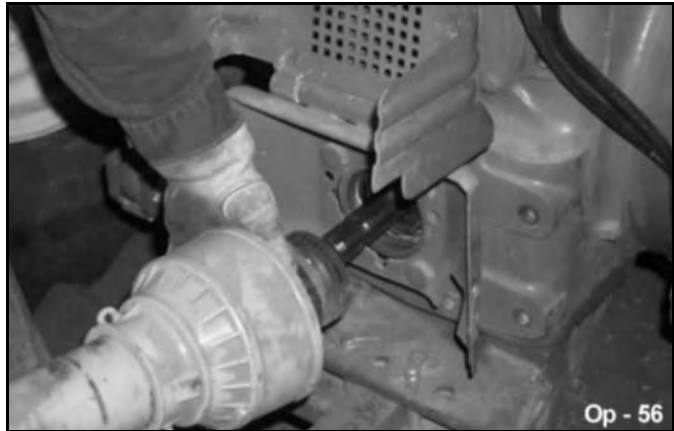
## **12. DISCONNECTING THE MOWER FROM THE TRACTOR**

Before disconnecting the mower, the PTO must be disengaged and all motion at a complete stop. Move the mower to a level storage location and lower both side mowers to the ground. If the mower will be stored with the sections in the raised position, be sure that the travel locks are engaged. If the mower is not resting securely on the ground, block the mower up securely before attempting to disconnect it from the tractor. Use extreme care to keep feet and hands from under the mower and clear of any pinch points. OPS-F-0012\_A



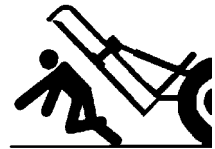
# OPERATION

After disconnecting the 3 lift points, remove the mower driveline from the tractor PTO shaft. Lay the driveline down carefully to avoid damaging the driveline or its shield. Do not let the driveline fall into mud or dirt, which can contaminate the bearing and shorten the life of the driveline.  
*OPS-F-0013*



**⚠ 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

## 13. MOWER STORAGE

It is recommended that the mower be stored with the center section and both side mowers fully lowered to ground level. If the mower is stored with the side mowers in the raised position, select a level area and engage travel locks and travel lock pins to prevent the side mowers from falling BEFORE disconnecting the mower rear mower.

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

- Thoroughly clean all debris off the mower to prevent damage from rotting grass and standing water.
- Lubricate all mower grease points and fill gearbox oil levels as detailed in the maintenance section.
- Tighten all bolts and pins to the recommended torque.
- Check the mower for worn and damaged parts. Perform repairs and make replacements immediately so that the mower will be ready for use at the start of the next season.
- Store the mower in a clean, dry place with the mower housing resting securely on blocks or at ground level.
- Keep the driveline yoke from sitting in water, dirt and other contaminants.
- Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the mower.



It is critical that driveline clutches slip when an obstacle or heavy load is encountered to avoid mower and/or tractor damage. If the mower sits outside for an extended period of time or is exposed to rain and/or humid air, the clutch lining plates must be inspected to ensure they are not frozen together from rust or corrosion. If the mower has been exposed to such conditions, at the start of each mowing season, and any time it is suspected that the slip clutch plates may be frozen together, readjust the slip clutch as detailed in Seasonal Clutch Maintenance of the maintenance section in this manual. OPS-F-0014\_A



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

# OPERATION

## 14. TRANSPORTING THE TRACTOR AND IMPLEMENT

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



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



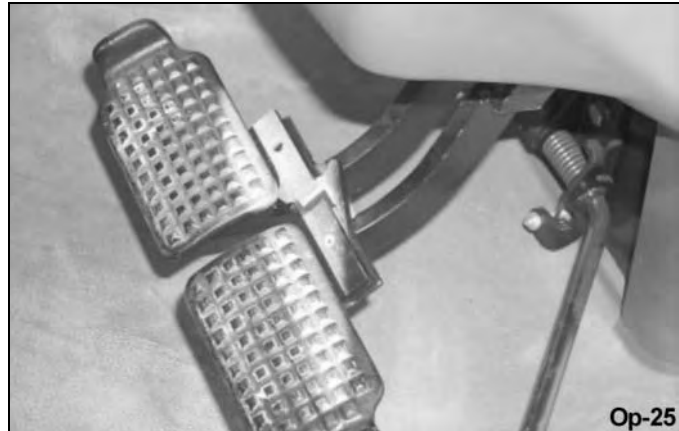
OPERATION

Before transporting the tractor and mower, idle the tractor engine, disengage the PTO and wait for all mower moving parts to come to a complete stop. Raise the mower sections and ensure travel locks engage and install the travel lock pins..



# OPERATION

Before transporting the tractor on a public roadway or boarding a trailer for transport, the tractor brake pedals should be locked together. Locking the pedals ensures that both wheels brake simultaneously while stopping, especially when making an emergency stop.



Use extreme caution and avoid hard applications of the tractor brakes when carrying equipment at road speeds. Never haul the implement at speeds greater than 20 MPH (32 kph). OPS-U- 0018\_A

If the tractor's hydraulic pump is not independent of the tractor PTO, or if the tractor PTO has to be run to have hydraulic power, disconnect the mower driveline from the tractor PTO output shaft. Secure the driveline to the mower deck to prevent driveline damage or loss during transport.

## 14.1 Transporting on Public Roadways

Extreme caution should be used when transporting the tractor and implement on public roadways. The tractor must be equipped with all required safety warning features including a SMV emblem and flashing warning lights to alert drivers of the tractor's presence. Remember that roadways are primarily designed for automotive drivers and most drivers will not be looking out for you, therefore, you must look out for them. Check your side view mirrors frequently and remember that vehicles will approach quickly because of the tractor's slower speed. Be extremely cautious when the piece of equipment that you are carrying is wider than the tractor tire width and/or extends beyond your lane of the road. OPS-U- 0019\_A

**NOTE:** Ensure that the mower sections are fully raised and that the travel locks are engaged for each section.

### WARNING

Only carry the Implement behind a properly sized and equipped Tractor which exceeds the weight of the Implement by at least 20%. DO NOT carry the Implement behind a truck or other type of vehicle. Never carry the Implement and another Implement connected in tandem. Never carry the Implement at speeds over 20 MPH. (STI-06\_A)



### 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)

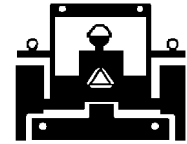




# OPERATION

## **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)



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



Make sure that all tractor flashing warning lights, headlights, and brake/tail lights are functioning properly before proceeding onto public roads. While newer model tractors have plenty of lighting to provide warning signals and operating lighting, most older models are only equipped with operating lights. Consult an authorized tractor dealer for lighting kits and modifications available to upgrade the lighting on older tractor models. OPS-U- 0021



When operating on public roads, have consideration for other road users. Pull to the side of the road occasionally to allow all following traffic to pass. Do not exceed the legal speed limit set in your country for agricultural tractors. Always stay alert when transporting the tractor and implement on public roads. Use caution and reduce speed if other vehicles or pedestrians are in the area. OPS-U- 0022



# OPERATION

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



## **14.2 Hauling the Tractor and Implement**

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



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



# OPERATION

## 15. TROUBLESHOOTING GUIDE

| <b>PROBLEM</b>       | <b>POSSIBLE CAUSE</b>   | <b>REMEDY</b>  |
|----------------------|---|--|
| Excessive Vibrations | Check gearbox bolts.<br>Check for missing knives on cutter shaft.<br>Check to see if knives are free swinging.<br>Blade broken or bent.<br>Cuttershaft bent.<br>Drivelines not phased correctly.<br>Implements & Tractor yokes must be in line. | Tighten if loose.<br>Replace missing knives.<br><br>Free knives so they swing.<br><br>Replace blades.<br>Replace cuttershaft.<br>Replace driveline.  |
| Gearbox Overheating  | Low on lubricant.<br>Improper type lubricant.<br>Excessive trash build-up around gearbox.<br>Bearing or gears set up improperly.  | Fill to level plug.<br>Replace with proper lubricant.<br>Remove trash.<br><br>Consult your Dealer.   |
| Gearbox Noisy        | Rough Gears.<br>Worn Bearing.   | Run-in or change gears.<br>Replace bearing.  |
| Noise                | Damaged Belt Shield (Rubbing on pulleys or belt).<br>Worn Bearing or Gear.  | Straighten or replace shields.   |
| Gearbox Leaking      | Damage oil seal.<br>Bent shaft.<br>Shaft rough in oil seal area.<br>Oil seal installed wrong.<br>Oil seal not sealing in the housing.<br>Oil level too high.<br>Sand hole in casting.<br>Gasket damaged.<br>Bolts loose.                        | Replace seal.<br>Replace oil seal and shaft.<br>Replace or repair shaft.<br>Replace seal.<br>Replace seal or use a sealant on OD of Seal.<br>Drain oil to proper level.<br>Replace castings or gearbox.<br>Replace gasket.<br>Tighten bolts. |

# OPERATION

## OPERATION

|                                       |   |  |
|---------------------------------------|---|--|
| Clutch Slips Excessively              | Clutch linings badly worn or plates warped.<br>Too much power for clutch.<br><br>Oil on facings.<br>Friction facings glazed.  | Repair clutch per maintenance section of manuals.<br>Reduce ground speed and material intake.<br>Replace facings.<br>Clean with emery cloth.   |
| Knives Wear Too Fast                  | Cutting in sandy conditions.<br>Cutting in rocky conditions.<br>Soft "will fit" knives.                                       | Increase cutting height.<br>Increase cutting height.<br>Use genuine Tiger knives.  |
| Hydraulic Cylinder Will Not Operate   | Not enough pressure.<br>Valve not connected properly.<br>Quick coupler not completely connected.                              | Check Pressure.<br>Re-plumb valve.<br>Complete connection.   |
| Oil squirting from Breather Vent Hole | Oil leaking by piston ring.<br><br>Piston "O" Ring worn.<br>Cylinder wall scored or pitted.<br>Wrong piston ring on piston.   | Do not carry cutter on cylinder.<br>Small leakage amount is normal.<br>Replace piston "O" Ring.<br>Replace cylinder.<br>Use correct piston ring.   |
| Discharging Bunches                   | Belt installed improperly.<br>Blades dull.<br>Grass too wet.<br>Grass too long.<br>Travel speed too fast.<br>PTO RPM too low. | Check belt for correct set up.<br>Check blades for sharpness.<br>Wait for grass to dry.<br>Mow at 3-1/2" and re-cut lower.<br>Use a lower tractor gear.<br>Mow at engine RPM to match 540 PTO RPM. |
| Blades Scalping High Places           | Mowing too low.<br>Rough, uneven ground.<br><br>Turning Tractor too fast.   | Raise height of cut.<br>Use a slower speed.<br>Lower rollers.<br>Slow down when turning.   |

# OPERATION

Uneven Cut

Travel speed too fast.  
Mower deck not level.  
Blades dull or unbalanced.  
Deck underside plugged.  
Grass too high.

Use a slower speed.  
Level the mowing deck.  
Sharpen or balance blades.  
Clean underside of deck.  
Mow at 3-1/2" and re-cut lower.

Grass Clippings Windrow  
or Clump

Grass too wet.  
Grass too high.  
Housing plugged.

Wait for grass to dry.  
Mow at 3-1/2" and re-cut lower.  
Clean underside of deck.

Grass Not Being Cut  
Evenly

Belt worn or slipping.  
Spring broke and belt off idler.  
Housing plugged.  
Debris around pulleys.  
  
Grass too high.

Replace or adjust belt.  
Replace spring or adjust belt.  
Clean underside of housing.  
Remove deck belt shield and  
clean out debris.  
Mow at 3-1/2" and re-cut lower.

# OPERATION

# OPERATION

TRIPLE FLAIL

Operation Section 3-42

# **MAINTENANCE SECTION**

Maintenance Section 4-1

# MAINTENANCE

## GENERAL INSTRUCTIONS

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

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

## MAINTENANCE PRECAUTIONS

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

### **WARNING**

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

## BREAK IN PERIOD

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

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

### **DANGER**

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





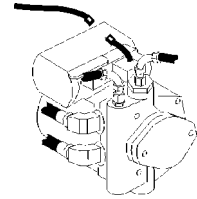
# MAINTENANCE



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)



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



**MAINTENANCE**

## REGULAR MAINTENANCE

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

### Daily or Every 8 Hours

| ITEM                                   | SERVICE               | COMMENTS   |
|--|-----------------------|--|
| Drive Shaft Yoke, U-Joint & Stub Shaft | Grease                | Grease as instructed in detailed maint. section  |
| Pump Drive Shaft Coupler               | Check and Lube        | Insure drive shaft end play  |
| Crankshaft Adapter                     | Check rubber grommets | Replace grommets if damaged or missing   |
| Pivot Points                           | Lubricate             | Inject grease until it appears at ends   |
| Hydraulic Fittings                     | Check for leaks       | Tighten when needed.<br>Do Not use hands to check for leaks, see Maintenance Precautions |

# MAINTENANCE

## MAINTENANCE

| ITEM  | SERVICE      | COMMENTS   |
|---|--------------|--|
| Knives  | Check        | Inspect for missing or damaged knives, change as needed  |
| Spindle mounting bolts (spindle to deck)                                | Check        | 3/4" x 2" or 3/4" x 2-1/2" bolts torque to 331 ft. lbs.  |
| Knife mounting bolts (knife to disk)                                    | Check        | Pre-lubricate threads, then torque to 800 ft. lbs. Saber - Torque 1-3/4" knife bolts to 2,000 ft. lbs. |
| Disk mounting bolts (disk to spindle)                                   | Check        | 5/8" x 1-3/4" or 5/8" x 2" bolts - torque to 204 dry / 184 oiled ft. lbs.                              |
| Belts   | Check/Adjust | Check if broken, tighten as required.  |
| Main Frame and Deck   | Check        | Retorque bolts to torque specifications in this section  |
| Hydraulic Fluid Level   | Check        | Add if required per fluid recommendations  |
| Rear Flail Drive (if applicable)<br>Bearing Flange and<br>Shaft Coupler | Lubricate    | Grease as instructed in detailed maintenance section   |
| Cutter Shaft  | Lubricate    | Grease as instructed in detailed maintenance section   |
| Ground Roller Bearings  | Lubricate    | Grease as instructed in detailed maintenance section   |

TRIPLE FLAIL

Maintenance Section 4-4

# MAINTENANCE

## WEEKLY OR EVERY 50 HOURS

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

## MONTHLY OR EVERY 150 HOURS

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

## YEARLY OR EVERY 500 HOURS

| ITEM   | SERVICE                 | COMMENTS  |
|--|-------------------------|---|
| Hydraulic Tank Fluid                                   | Change                  |   |
| In Tank Hyd. Fluid Filter <b>(10 micron filter)</b>    | Change                  |   |
| In-Line High Pressure Filter <b>(10 micron filter)</b> | Change or               | Change when indicated by restriction indicator. |
| Hyd. Tank Breather                                     | Change                  |   |
| TRIPLE FLAIL   | Maintenance Section 4-5 |   |

**MAINTENANCE**

# MAINTENANCE

MAINTENANCE

## TROUBLESHOOTING

| SYMPTOMS                          | CAUSE  | REMEDY   |
|-----------------------------------|--|--|
| Vibration                         | Loose Bolts  | Check all bolts and tighten to recommended torque specs.   |
|                                   | Cutter assembly<br>Unbalanced                              | Check for damaged blades, disc or cuttershaft. Replace if needed.<br>Check for wire, rope, etc. entangled in the cutter assembly   |
| Mower will not lift               | Hydraulic Fluid Low<br>Leaks in line                       | Check and refill hydraulic fluid<br>Tighten or replace fittings and hoses  |
|                                   | Faulty relief valve  | Check pressure in line. Line pressure should be at least 2500 PSI  |
|                                   | Kinked or blocked<br>Faulty cylinder                       | Clean or replace lines<br>Inspect, repair or replace cylinder  |
| Oil temperature rises above 200°F | Low oil level<br>Kinked/ blocked hoses<br>Worn pump/ motor | Bring oil to proper level<br>Inspect, repair or replace<br>Disable and repair  |
| Mower will not start or run       | Blown fuse   | Check fuse between mower switch and ignition/replace   |
|                                   | Ball valves closed<br>Low oil level<br>Line leak           | Make sure valves are open<br>Check hydraulic tank and fill<br>Check all fittings and lines, re-tighten or replace  |
|                                   | Electronic solenoid faulty                                 | <b>Without</b> 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. |

# MAINTENANCE

**MAINTENANCE**

Remove the four bolts holding the small block to the main block. Lift and remove small block being careful not to damage O-rings/ filter. Clean filter and re-install.

Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches. Clean parts or replace if scratched.

Motor runs but will not cut.

Belts  
Tensioner

Inspect belts and pulleys. Replace belts and repair as needed.  
Adjust tensioner nut until flatwasher is flush with top of guide.

Mower turns slowly or not at all.

Contaminants restricting spool movement in valve body

Remove large nut on side of large valve block. Remove spring, and use needle nose vise grip to pull spool from block. Check block and spool for contaminants and scratches. Clean parts or replace if scratched.

Suction lines obstructed

Check for kinks or obstruction in suction hose.

Low oil level

Check Hydraulic tank level and fill.

Pump will not work

Excessive wear on internal parts.

Disassemble and repair.

Motor will not work

Excessive wear on internal parts

Disassemble and repair.





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

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





# MAINTENANCE

MAINTENANCE

## TORQUE SPECIFICATIONS

| Torque for Standard Fasteners |                  |   |            |           |   |            |            |   |            |            |   |            |            |
|-------------------------------|------------------|---|------------|-----------|---|------------|------------|---|------------|------------|---|------------|------------|
| Nominal Dia.<br>(in.)         | threads per inch |  Grade 2 |            |           |  Grade 5 |            |            |  Grade 8 |            |            |  Grade 9 |            |            |
|                               |                  | Tightening Torque   |            |           | Tightening Torque   |            |            | Tightening Torque   |            |            | Tightening Torque   |            |            |
|                               |                  | Lubed   | Dry Plated | Dry plain | Lubed   | Dry Plated | Dry plain  | Lubed   | Dry Plated | Dry plain  | Lubed   | Dry Plated | Dry plain  |
|                               |                  | K = 0.15  | K = 0.17   | K = 0.20  | K = 0.15  | K = 0.17   | K = 0.20   | K = 0.15  | K = 0.17   | K = 0.20   | K = 0.15  | K = 0.17   | K = 0.20   |
| Unified Coarse Thread Series  |                  |   |            |           |   |            |            |   |            |            |   |            |            |
| 1/4                           | 20               | 49 in-lbs   | 59 in-lbs  | 66 in-lbs | 76 in-lbs   | 86 in-lbs  | 101 in-lbs | 107 in-lbs  | 122 in-lbs | 143 in-lbs | 126 in-lbs  | 143 in-lbs | 168 in-lbs |
| 5/16                          | 18               | 101   | 122        | 135       | 157   | 178        | 209        | 221   | 251        | 295        | 259   | 294        | 346        |
| 3/8                           | 16               | 15 ft-lbs   | 18 ft-lbs  | 20 ft-lbs | 23 ft-lbs   | 26 ft-lbs  | 31 ft-lbs  | 33 ft-lbs   | 37 ft-lbs  | 44 ft-lbs  | 38 ft-lbs   | 43 ft-lbs  | 51 ft-lbs  |
| 7/16                          | 14               | 24  | 29         | 32        | 37  | 42         | 49         | 52  | 59         | 70         | 61  | 70         | 82         |
| 1/2                           | 13               | 37  | 44         | 49        | 57  | 64         | 75         | 80  | 90         | 106        | 94  | 106        | 125        |
| 9/16                          | 12               | 53  | 63         | 70        | 82  | 92         | 109        | 115   | 130        | 154        | 135   | 153        | 180        |
| 5/8                           | 11               | 73  | 87         | 97        | 113   | 128        | 150        | 159   | 180        | 212        | 186   | 211        | 248        |
| 3/4                           | 10               | 129   | 155        | 172       | 200   | 227        | 267        | 282   | 320        | 376        | 331   | 375        | 441        |
| 7/8                           | 9                | 125   | 150        | 167       | 322   | 365        | 429        | 455   | 515        | 606        | 533   | 604        | 710        |
| 1                             | 8                | 187   | 225        | 250       | 483   | 547        | 644        | 681   | 772        | 909        | 799   | 905        | 1065       |
| 1 1/8                         | 7                | 266   | 319        | 354       | 596   | 675        | 794        | 966   | 1095       | 1288       | 1132  | 1283       | 1510       |
| 1 1/4                         | 7                | 375   | 450        | 500       | 840   | 952        | 1121       | 1363  | 1545       | 1817       | 1597  | 1810       | 2130       |
| 1 1/2                         | 6                | 652   | 783        | 869       | 1462  | 1657       | 1950       | 2371  | 2688       | 3162       | 2779  | 3150       | 3706       |
| Fine Thread Series            |                  |   |            |           |   |            |            |   |            |            |   |            |            |
| 1/4                           | 28               | 56 in-lbs   | 68 in-lbs  | 75 in-lbs | 87 in-lbs   | 99 in-lbs  | 116 in-lbs | 123 in-lbs  | 139 in-lbs | 164 in-lbs | 144 in-lbs  | 163 in-lbs | 192 in-lbs |
| 5/16                          | 24               | 112   | 135        | 150       | 174   | 197        | 231        | 245   | 278        | 327        | 287   | 325        | 383        |
| 3/8                           | 24               | 17 ft-lbs   | 20 ft-lbs  | 23 ft-lbs | 26 ft-lbs   | 30 ft-lbs  | 35 ft-lbs  | 37 ft-lbs   | 42 ft-lbs  | 49 ft-lbs  | 43 ft-lbs   | 49 ft-lbs  | 58 ft-lbs  |
| 7/16                          | 20               | 27  | 32         | 36        | 41  | 47         | 55         | 58  | 66         | 78         | 68  | 78         | 91         |
| 1/2                           | 20               | 41  | 49         | 55        | 64  | 72         | 85         | 90  | 102        | 120        | 105   | 120        | 141        |
| 9/16                          | 18               | 59  | 71         | 78        | 91  | 103        | 121        | 128   | 146        | 171        | 151   | 171        | 201        |
| 5/8                           | 18               | 82  | 99         | 110       | 127   | 144        | 170        | 180   | 204        | 240        | 211   | 239        | 281        |
| 3/4                           | 16               | 144   | 173        | 192       | 223   | 253        | 297        | 315   | 357        | 420        | 369   | 418        | 492        |
| 7/8                           | 14               | 138   | 165        | 184       | 355   | 403        | 474        | 502   | 568        | 669        | 588   | 666        | 784        |
| 1                             | 14               | 210   | 252        | 280       | 542   | 614        | 722        | 765   | 867        | 1020       | 896   | 1016       | 1195       |
| 1 1/8                         | 12               | 298   | 357        | 397       | 668   | 757        | 890        | 1083  | 1227       | 1444       | 1269  | 1439       | 1693       |
| 1 1/4                         | 12               | 415   | 498        | 553       | 930   | 1055       | 1241       | 1509  | 1710       | 2012       | 1768  | 2004       | 2358       |
| 1 1/2                         | 12               | 734   | 880        | 978       | 1645  | 1865       | 2194       | 2668  | 3024       | 3557       | 3127  | 3544       | 4169       |

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

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

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

# MAINTENANCE

**MAINTENANCE**

## LUBRICATION RECOMMENDATIONS

| Description                                | Application                       | General Specification                             | Recommended Mobil Lubricant                |
|--|-----------------------------------|---|--|
| Tractor Hydraulics                         | Reservoir                         | JD-20C<br>MF M1135, M1141<br>FNHM2C134D           | Mobilfluid 424                             |
| Mower Hydraulics                           | Reservoir                         |   |  |
|  | Cold Temperatures 0°F Start-Up    | ISO 46 Anti-Wear-Low Temp                         | Mobil DTE 15M                              |
|  | Normal Temperatures 10°F Start-Up | JD20C<br>MF M1135, M1141<br>FNH M2C134D (FNH201)  | Mobilfluid 424                             |
|  | Normal Temperatures 15°F Start-Up | ISO 46 Anti-Wear                                  | Mobil DTE 25                               |
|  | High Operating Temp. Above 90°F   | ISO 100 Anti-Wear                                 | Mobil DTE 18M                              |
| Flail Rear Gearbox                         | Reservoir                         | PAO Synthetic Extreme Pressure Gear Lube          | Mobil SHC 75W-90<br>Mobil 1 Synthetic Gear |
| Cutter Shaft & Ground Roller Shaft (Flail) | Grease Gun                        | Lithium-Complex Extreme Pressure NLGI-2 - ISO 320 | Mobilgrease CM-S                           |
| Drive Shaft Coupler (Flail and Rotary)     | Grease Gun                        | Lithium-Complex Extreme Pressure NLGI2 - ISO 320  | Mobilgrease CM-S                           |

# MAINTENANCE

## POLYCARBONATE CARE & MAINTENANCE

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

### CLEANING THE SUPERCOAT™ HARD-COAT

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

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

- Aqueous Solutions of Soaps and Detergents

|           |             |               |            |
|-----------|-------------|---------------|------------|
| Windex    | Top Job     | Joy           | Mr. Clean  |
| Fantastik | Formula 409 | Sumalight D12 | Brucodecid |

- Organic Solvents

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

- Alcohols

|          |           |
|----------|-----------|
| Methanol | Isopropyl |
|----------|-----------|

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

## GRAFFITI REMOVAL

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

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

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



# MAINTENANCE

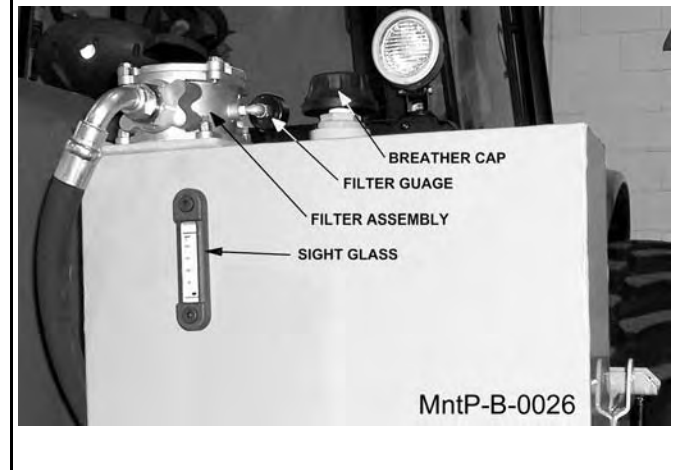
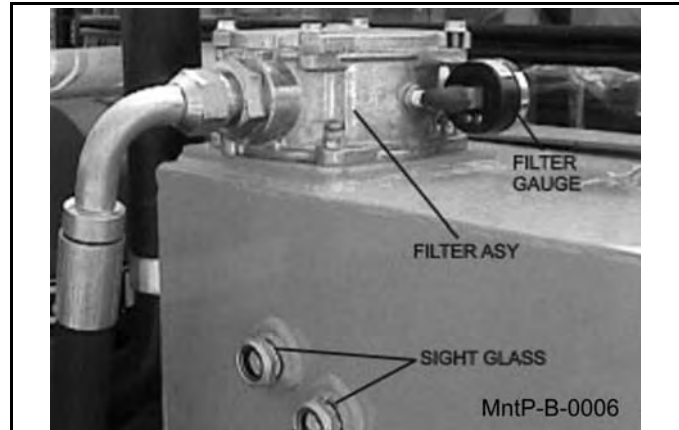
MAINTENANCE

## RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVOIRS

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

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

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



## REPLACING IN-TANK HYDRAULIC FILTER

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

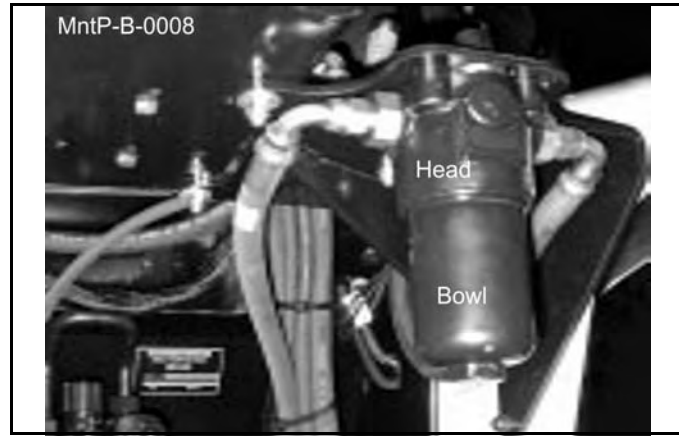


# MAINTENANCE

## MAINTENANCE

### REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT

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



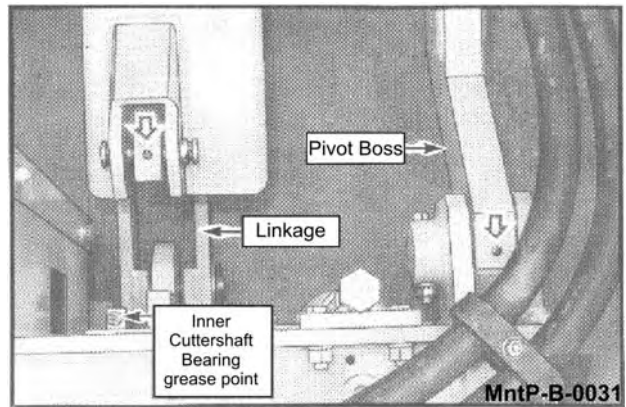
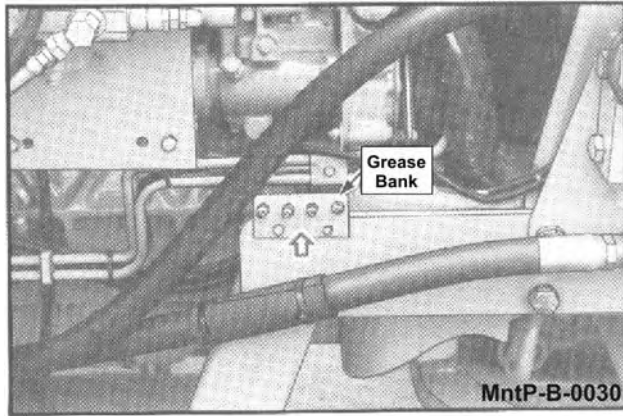
**WARNING:** *Bowl will be full of oil!* Pour the oil from the bowl into a container, this oil should be considered contaminated due to the flow direction through the element is outside-in. Clean the inside of the bowl if “dirt” is present. Remove the old element from the filter head by pulling with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

# MAINTENANCE

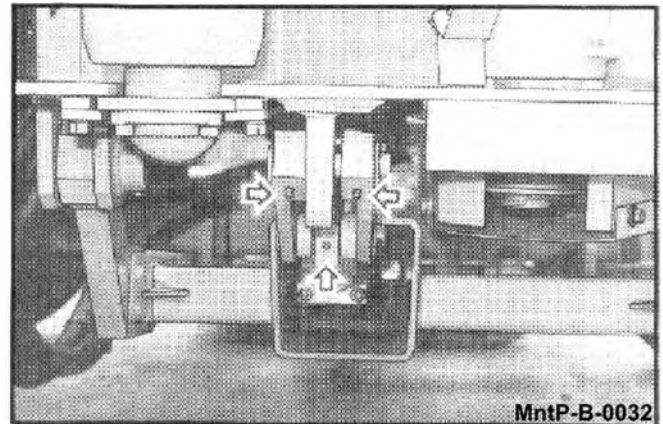
MAINTENANCE

## GREASING INNER AND OUTER DRAFT BEAM PIVOT POINTS

Locate the grease zerks on the inner and outer draft beam pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLG12-ISO 320 specifications into each zerk until grease protrudes from joints. Grease all pivot points daily or every 8 hours of service.



With the cutter head lowered, locate the grease zerks on the linkage and pivot bosses. Inject Lithium-Complex Extreme Pressure grease conforming to NLG12-ISO 320 specifications until it protrudes from the ends. With the cutter head in this position, it is also possible to grease the draft beam cylinder anchors and pins. Now, raise the cutter head to expose the remaining zerks on the deck tilt linkages and on the other end of the cylinder.

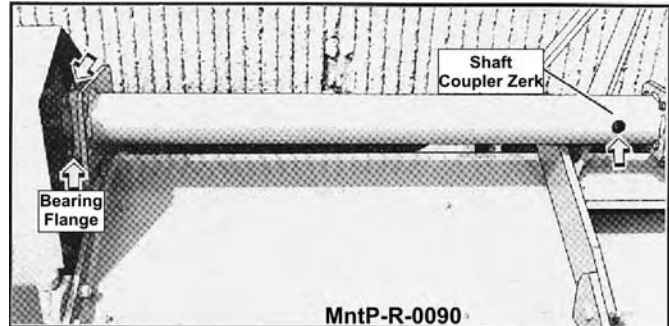


# MAINTENANCE

MAINTENANCE

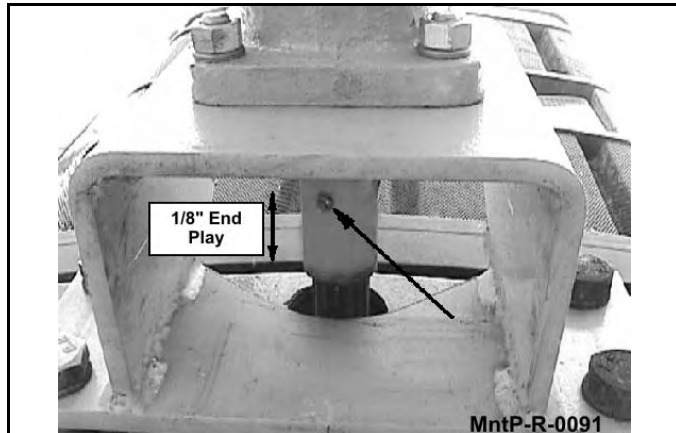
## GREASING THE REAR DRIVE BEARING AND EXTENSION COUPLER SHAFT

Locate the grease zerks for the rear flail drive extension shaft. Make sure the zerks are clean before injecting grease. One pump of grease into flange zerk and shaft coupler once every day or for every 8 hours of service.



## GREASING PUMP DRIVE SHAFT COUPLER

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

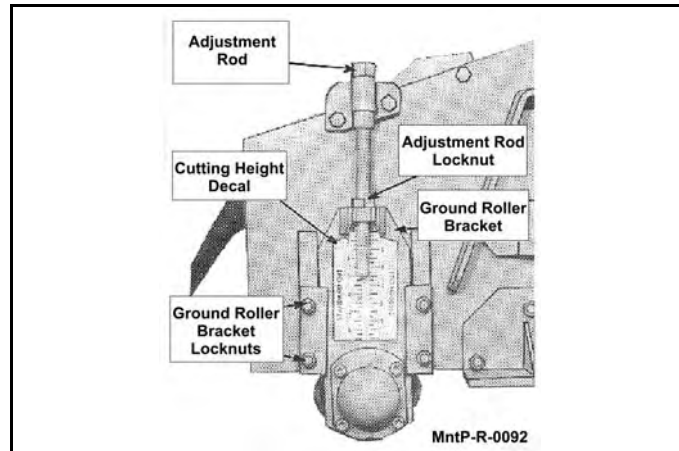


# MAINTENANCE

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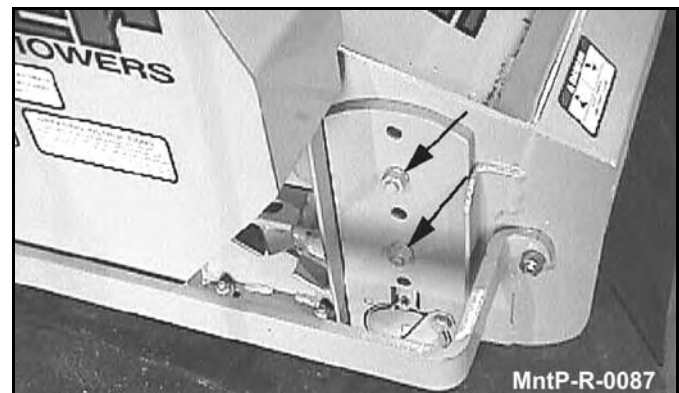
## ADJUSTING THE CUTTING HEIGHT

Loosen the four ground roller bracket locknuts. Loosen the adjustment rod locknut and turn the adjustment rod to adjust the cutting height. The cutting height is indicated by the end of the adjustment rod on the cutting height decal. When cutting height has been achieved, tighten the ground roller bracket locknuts and the adjustment rod locknut securely. Be sure both sides of the flail are adjusted the same.



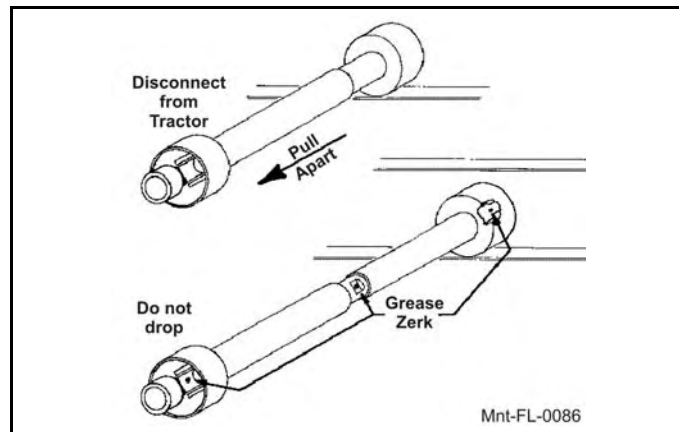
## ADJUSTING STANDARD DUTY CUT HEIGHT

To adjust the cutting height of the standard duty flail head the two nuts on the roller shaft brackets must be taken off and moved to the desired location/height. Be sure that both sides of the shaft are adjusted to corresponding holes so the shaft remains level.



## GREASING P.T.O. SHAFTS

After bringing the tractor to a complete stop, shut off the engine and remove the PTO shaft from the tractor. Slide the shaft apart to expose the grease zerk. Grease the shaft with 5 pumps of grease and the U-joints until grease protrudes from caps per the scheduled interval in the maintenance section.



# MAINTENANCE

MAINTENANCE

## BALL VALVES

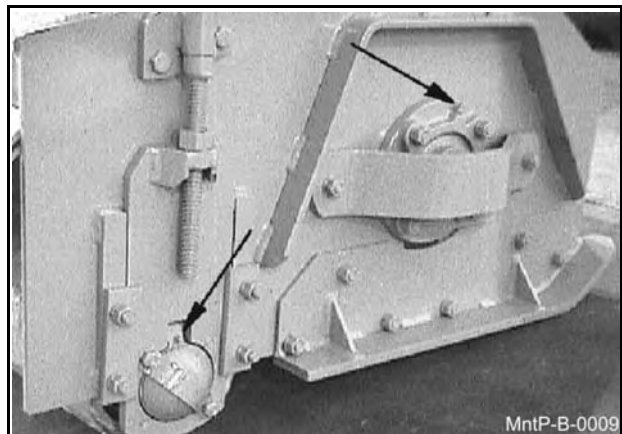
The ball valve at the hydraulic reservoir may need to be closed during certain maintenance or repair procedures. **THE BALL VALVE MUST BE OPEN (handle parallel with valve) WHEN TRACTOR IS RE-STARTED OR PUMP IS COUPLED TO MOTOR OR P.T.O.!** Failure to do so will result in component failure!

BALL VALVE



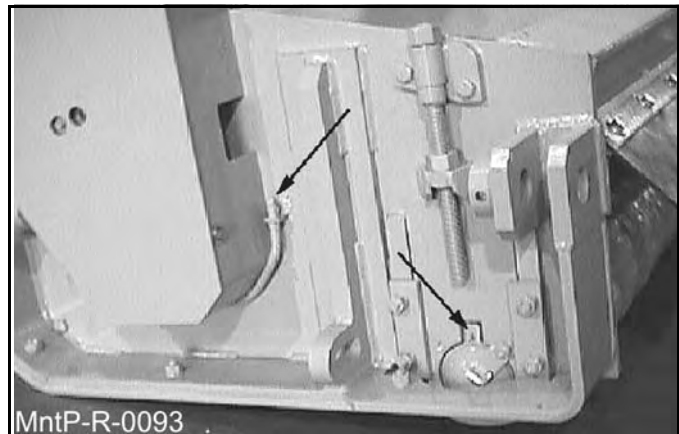
## GREASING CUTTER SHAFT-FLAIL MOWERS

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



## GREASING GROUND ROLLER SHAFT-FLAIL

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



# MAINTENANCE

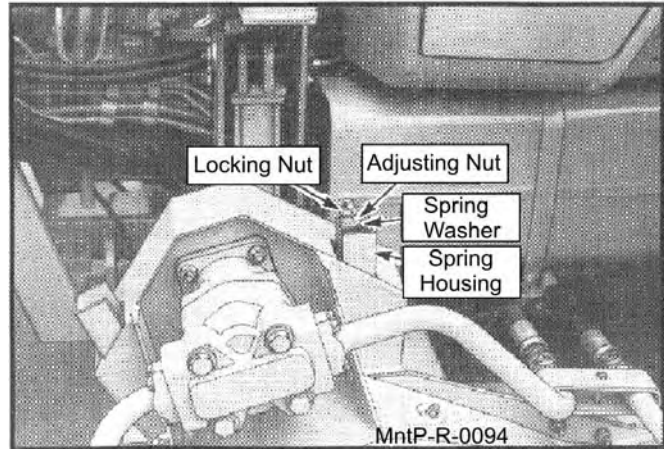
MAINTENANCE

## GREASING THE IDLER TENSION ARMS

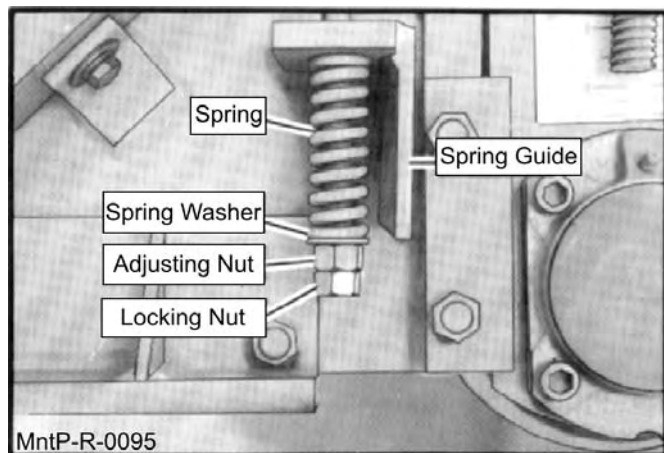
Locate the access holes and grease zerks in the belt shields of the side and rear flails. Normal conditions require one pump daily or every 8 hours of service with multi purpose grease.

## IDLER TENSION

Locate the idler tensioning rod for each flail. Loosen the locking nut. Turn the adjusting nut until the washer between the spring and nuts are flush with the spring housing or guide. Tighten locking nut securely. For standard cut on side flail adjust until the spring washer is flush with the top of the spring housing. Use the same method to adjust hydraulically driven rear flails. **MntP-R-0094**



For standard cut on the mechanically driven rear flail mower, adjust so that the spring washer is flush with the spring guide. **MntP-R-0095**



# MAINTENANCE

MAINTENANCE

## ROSTA TENSIONER

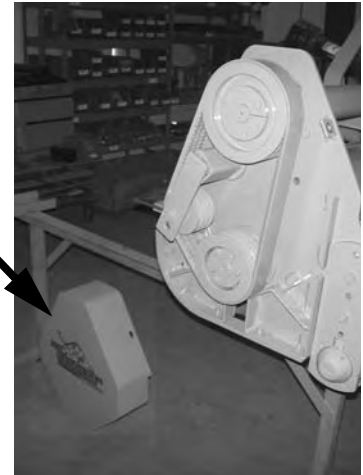
### STANDARD DUTY REAR FLAILS

Remove the shield guard over the belt shield. Next, remove the belt shield that covers the tensioner, belt and sheaves.

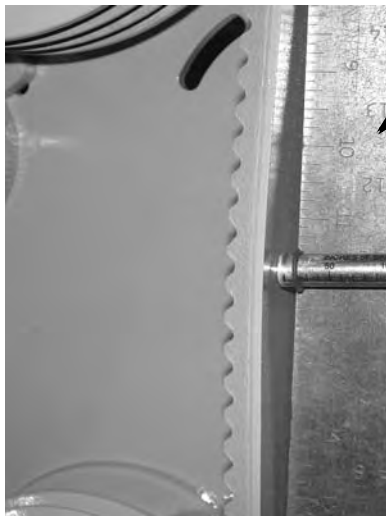


BELT SHIELD

SHIELD  
GUARD



Place a straight edge over both sheaves and measure the belt tension (See TENSIONER MEASUREMENT PROCEDURE). To adjust the Rosta Tensioner, first, loosen the Rosta Stop and Rosta Bolt that secures the Rosta to the flail. Next use the Wrench (P/N 06401023 available) to adjust the tension of the belt. After the tension has been set, secure the Rosta Stop and re-torque the Rosta Bolt to specs.

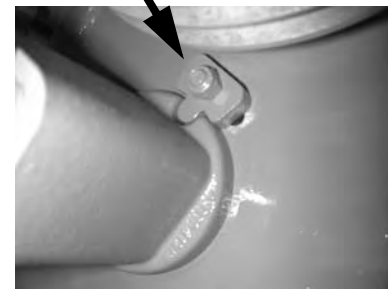


STRAIGHT EDGE

ROSTA WRENCH



ROSTA STOP



ROSTA  
TENSIONER

TRIPLE FLAIL

Maintenance Section 4-18



# MAINTENANCE

## TENSIONER MEASUREMENT PROCEDURE

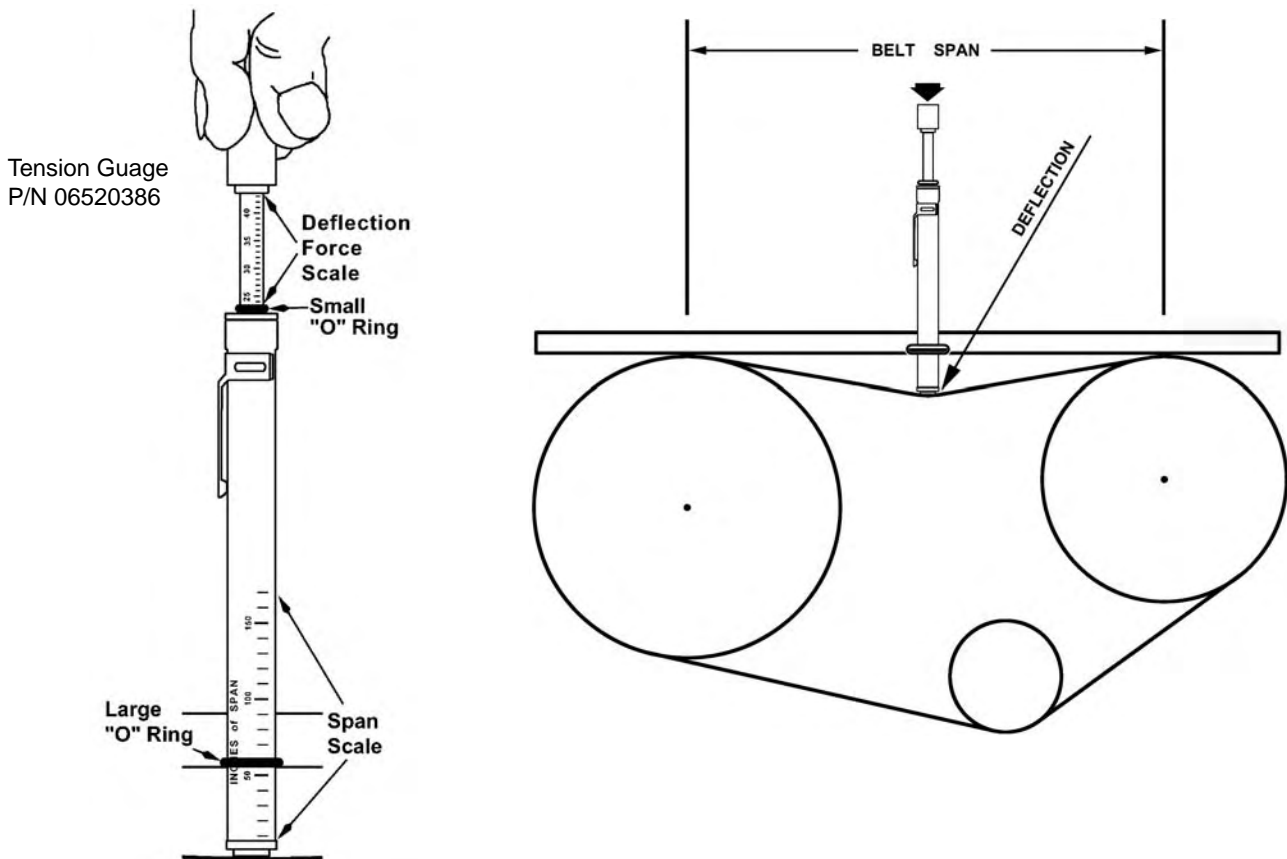
1. Measure the Belt Span (SEE SKETCH).
2. Position the bottom of the Large "O" Ring on the Span Scale at the measured Belt Span.
3. Set the Small "O" Ring on the Deflection Force Scale to Zero.
4. Place the tension gauge squarely on the belt at the center of the belt span. Apply a force on the plunger perpendicular to the belt span until the bottom of the Large "O" Ring is even with the bottom of a straight edge laid across the sheaves.
5. Remove the tension gauge and read the force applied from the bottom of the Small "O" Ring on the Deflection Force Scale.
6. Compare the force denoted by the Small "O" Ring with the values shown. The force should be between the values given for either a New Belt or Used Belt.
7. Make sure to use the force values in pounds if the span is measured in inches. Use kilograms of force if the span is measured in centimeters.

NOTE: The ratio of the deflection to belt span is 1/64 in either units of measurements.

### Deflection Force Values - Standard Duty

**New Belt: 20 to 25 pounds**

**Used Belt: 12 to 20 pounds**

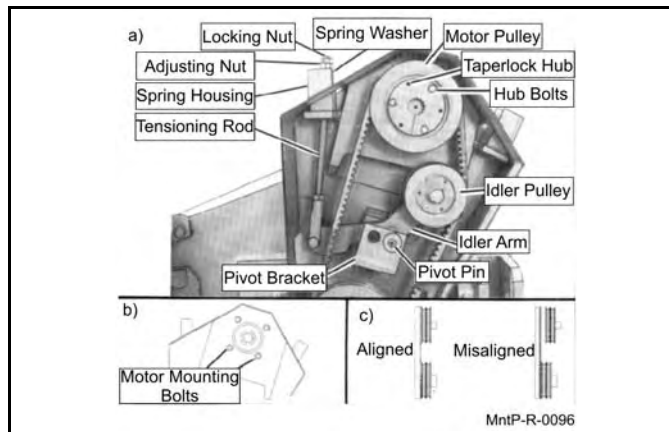


# MAINTENANCE

## REVERSING MOWER ROTATION OF SIDE AND REAR FLAIL MOWERS

To reverse the rotation of the side and hydraulically driven rear flail, a different idler arm is needed only for side flail. Part No. TF4346 is used in standard rotation. Part No. TF4345 is used in reverse rotation.

Before attempting this procedure, be sure all dirt is cleaned away from the motor and around all hose connections. This will prevent the oil from becoming contaminated.



1. Start by removing the belt shield from the flail mower.
2. Remove the locking and adjusting nut, spring washer and spring from the idler tensioning rod.
3. Disconnect the tensioning rod from the idler arm.
4. Remove the idler arm with the pulley attached.
5. Remove the idler pulley from the idler arm and reinstall in the short end of the new idler arm.

Reinstall the idler arm and pivot pin. The pivot pin is installed into the hole in the pivot bracket closest to the idler pulley. When assembling for **standard** cut rotation, the idler arm is installed with the idler pulley toward the front of the mower with the pivot pin in the front hole. When assembling for **reverse** rotation, with smooth cut knives, the idler arm is installed with the pulley toward the rear of the mower with the pivot pin in the rear hole.

Now disconnect the hoses and fittings from the motor and remove the taper-lock hub and pulley from the motor by removing the three hub bolts from the existing positions and inserting simultaneously into the threaded holes. Remove the four bolts holding the motor. Rotate the motor 180° so the hump is opposite the prior position. Reinstall the motor bolts and torque to 75 ft. lbs. Reconnect the hoses and fittings to the motor in the same configuration as before, i.e. the hose that was connected to the front port on the motor should now be connected to the port that is now facing the front.

Reinstall the taper-lock hub and pulley on the motor by installing the hub bolts in the original holes and tightening until the hub just contacts the pulley. Then, position the pulley on the motor shaft approximately 3/16" beyond the idler pulley and tighten and torque the hub bolts to 18 ft./lbs. Be sure the pulleys are vertically aligned when tight (see **Figure MntP-R-0096**), loosen and readjust if needed.

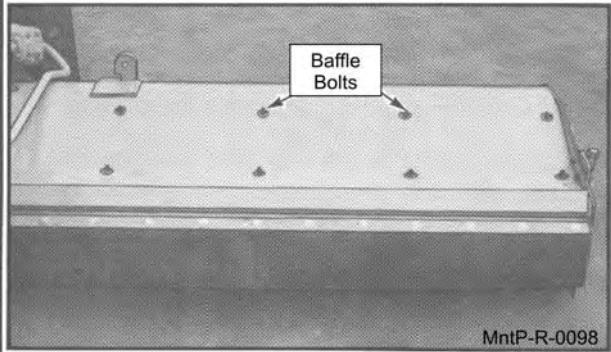
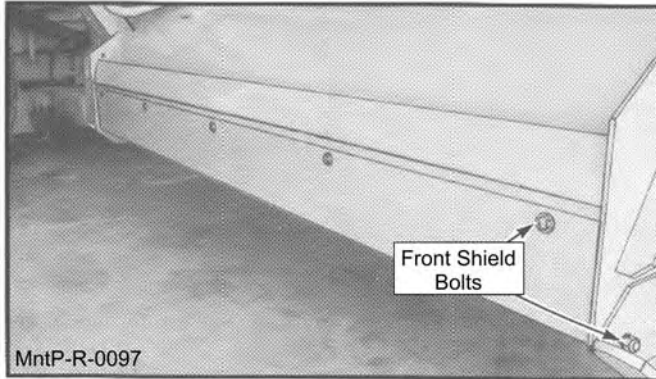
Reinstall the belts and idler tensioning rod. Tighten and lock the tensioning rod as shown previously in the maintenance section. Reinstall the belt shield.

With the motor rotation changed, now all of the knives on the cutter shaft must be changed as required. The cutter shaft rotates in the same direction as the tractor tires when going forward for standard cut knives. The shaft rotates opposite to standard rotation for smooth cut knives. Smooth cut knives should be installed so the cutting edge is forward.

# MAINTENANCE

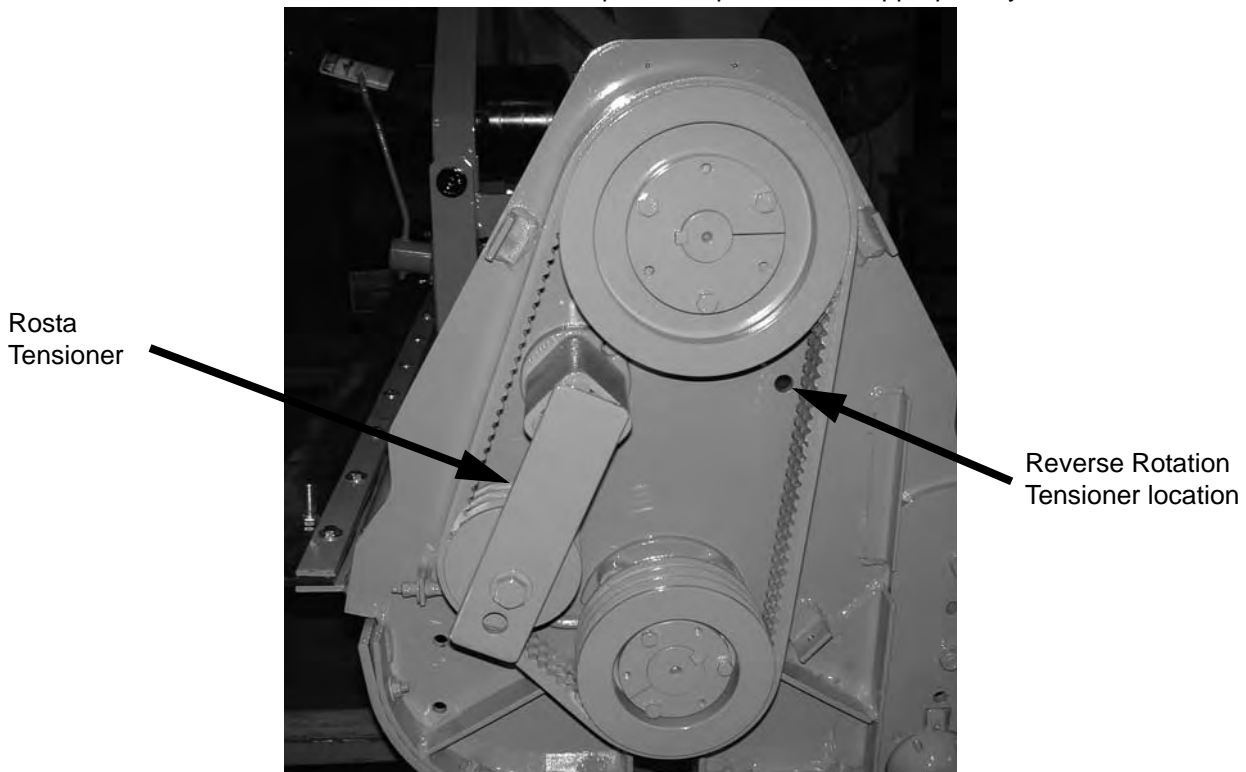
MAINTENANCE

When operating in standard rotation, the front shield must be removed and the baffle installed. When operating in reverse rotation, remove the baffle and install the front shield. Finally, reposition the wear pads on the hoses and replace the zip ties as needed to prevent the hydraulic hoses from rubbing or chafing.



## REVERSING MOWER ROTATION OF SD REAR FLAIL MOWERS

Remove the shield guard and belt shield. Next, remove the Rosta stop and loosen the Rosta Tensioner (**CAUTION:** the Rosta Tensioner is under belt pressure. Sudden release of this pressure may cause serious injury). Remove the Rosta Tensioner and relocate to the Reverse Rotation Tensioner location. Using the Rosta wrench, tension the belt, then tighten the Rosta bolt. Check the tension and adjust as needed. When the correct tension is achieved install the Rosta stop and torque the bolts appropriately



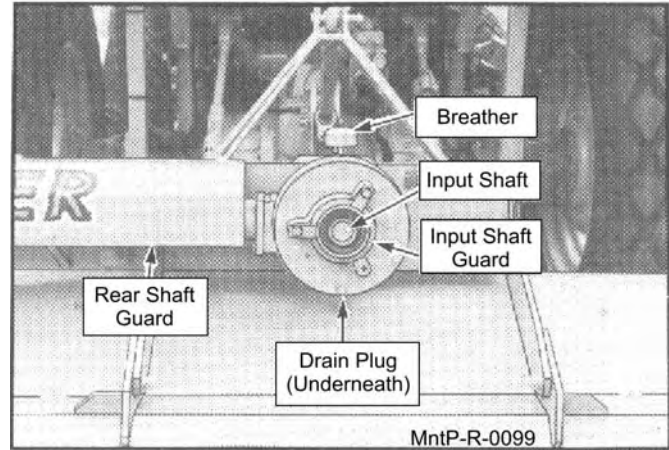
# MAINTENANCE

MAINTENANCE

## REVERSING MOWER ROTATION REAR MECHANICAL DRIVEN FLAIL MOWERS

Remove the rear shaft guard and disconnect the chain coupling to the shaft. Disconnect the P.T.O. drive shaft from the right angle gear box. Remove the gear box from the flail frame and lay down flat so that gear oil does not leak out.

Switch the top breather vent plug with the drain plug on the bottom. Remove the input shaft guard. The input shaft must be pressed through or turned around so the rear extension is equal to what the original front dimension was. Turn the gear box 180° and install on the flail frame so the frame so the chain coupling sprockets are side by side and the breather vent plug is on the top of the case.



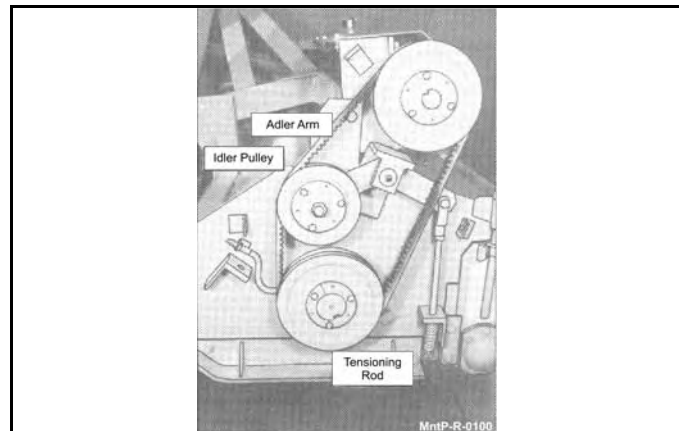
The sprocket must be aligned and spaced approximately 3/8" apart. When changing from standard cut to smooth cut rotation, a spacer plate may have to be installed between the gear box and the frame. When changing from smooth cut to standard cut rotation the spacer plate is to be omitted. Install the chain for the chain coupling. If there is any binding, or not free movement in the chain, the bearing next to the coupler may be shimmed as required to eliminate the chain binding.

Change all the knives on the cutter shaft as required. The cutter shaft rotates in the same direction as the tractor tires when going forward for standard knives. The cutter shaft rotates opposite the tractor tires for smooth cut knives.

Remove the belt shield. Then remove the adjusting nuts, washer and spring from the idler tensioning rod. Remove the clevis rod and small bushing from the idler arm. Remove the idler arm with the pulley attached. Remove the idler pulley from the idler arm and install the pulley on the other end of the idler arm. Reinstall the idler arm in the pivot bracket. For standard cut rotation the pulley is toward the front, for reverse rotation with smooth knives, the idler pulley is toward the rear. Install the small bushing in the idler arm and connect the idler tensioning rod.

Tightening the adjusting nuts for the idler arm tensioner as shown previously in the maintenance section. Install the belt shield, the shaft guard and P.T.O. shaft guards.

When operating the mower in reverse rotation with smooth cut knives, remove the baffle and install the front shield. When operating the mower in standard rotation with standard cut knives, remove the front shield and install the baffle.



# MAINTENANCE

## Flail Blades Inspection

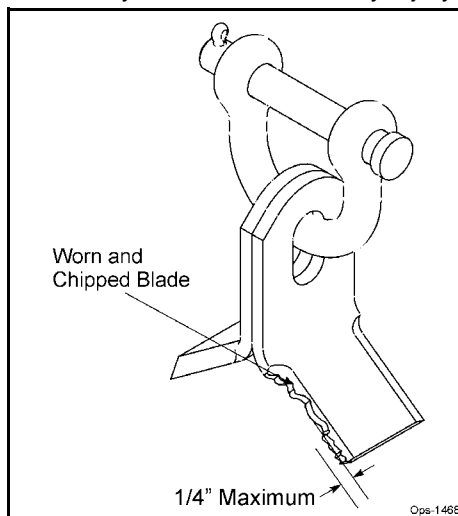


Inspect the Blades daily for abnormal wear. REPLACE ALL BLADES on the carrier IMMEDIATELY if any blades have:

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

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

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



Always replace blades in sets

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



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



Never attempt to sharpen blades. OPS-U-0044

# MAINTENANCE

## **Blade Pins and D-Ring Inspection**

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

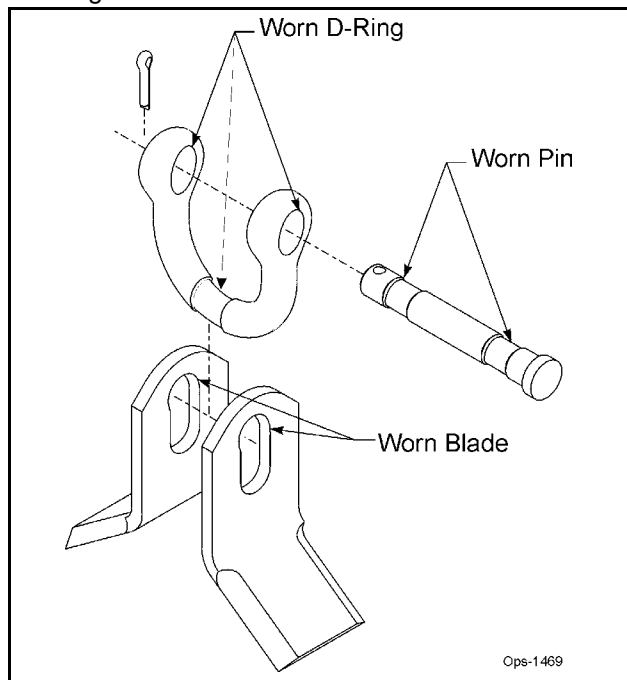


Inspect the Blade pins and D-Rings daily for abnormal wear. Make sure the cotter pins are in place and properly spread. REPLACE BLADE Pins and D-Rings IMMEDIATELY if they have:

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

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

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



### **Important**

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

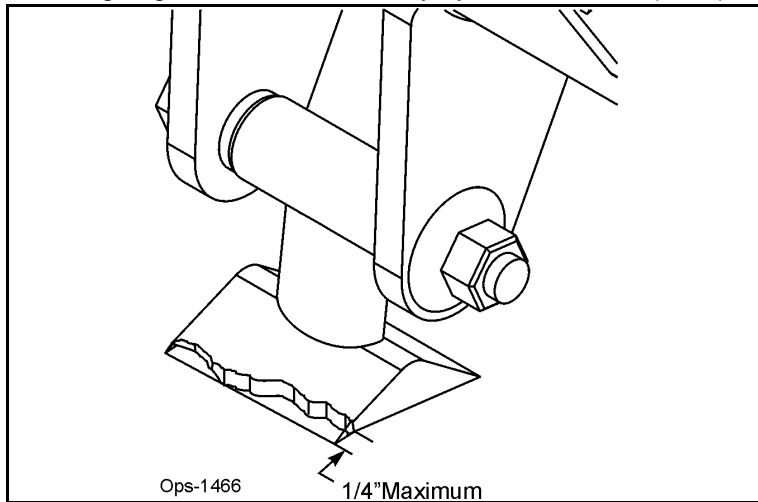
# MAINTENANCE

## Flail Axe Blades Inspection



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

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



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

Always replace blades in sets

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



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



Never attempt to sharpen blades. **OPS-U-0042**

# MAINTENANCE

## Flail Axe Blade Bolt Inspection

Inspect Blade Bolts daily for wear or damage as follows:

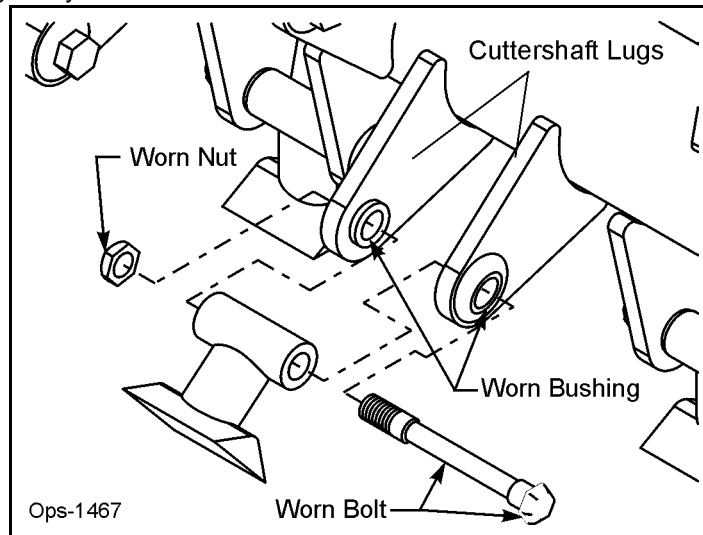


Inspect the Blade Bolt daily for abnormal wear. REPLACE ALL BLADE BOLTS on the carrier IMMEDIATELY if any bolts have:

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

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

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





# MAINTENANCE

## STANDARD OR HEAVY DUTY SIDE OR REAR FLAIL KNIFE REPLACEMENT

1. If knives are damaged or badly worn, they will need to be replaced as a set. Replacing a single knife can cause severe vibration and possible damage to the mower.
2. Assemble knives, clevis, bolts and nuts as shown in parts manual.
3. Install locking hex nut so that the flat face of nut is towards the knife.
4. Apply loctite "271" or equivalent to threads.
5. Torque nut to 52 FT. LBS. Knife must swing freely.



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



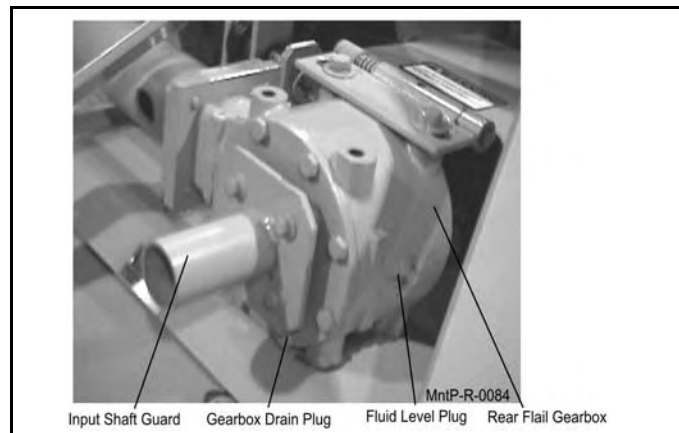
Knives should not be welded on for any reason.

## RECOMMENDED FILLING INSTRUCTIONS FOR REAR FLAIL GEARBOX

When filling or checking the fluid level, the unit should be parked on a level surface with rear flail down on surface, shut "OFF", and cold, (at ambient temperature).

Remove the fluid level plug located on the side of the gear box. The gear box should be filled to the bottom of the fluid level hole. If necessary, use 75-90 wt. PAO Synthetic Extreme Pressure Gear Lube to raise level to bottom of the hole.

**Do not over-fill.** Excessive gear oil will run back out of the hole. Reinstall fluid level plug into gearbox. If gearbox has been over-filled, the excess may be expelled through the pressurized breather.



# MAINTENANCE

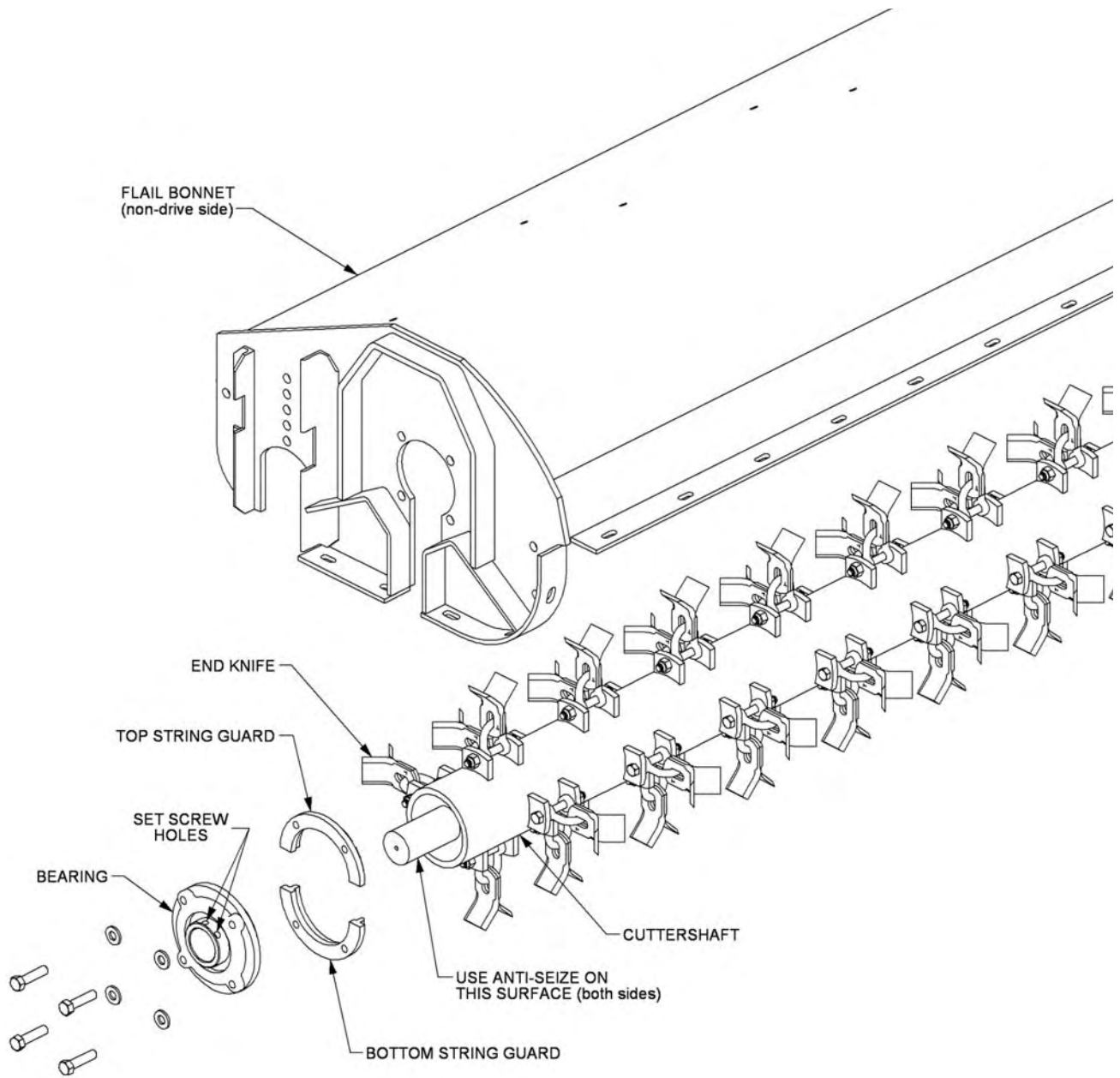
## CUTTERSHAFT BEARING REPLACEMENT

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

**See illustration on next page**

# MAINTENANCE

MAINTENANCE



TRIPLE FLAIL

Maintenance Section 4-29

# MAINTENANCE

MAINTENANCE

## DAILY MAINTENANCE SCHEDULE

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

- \_\_\_\_\_ Pump Drive Shaft: Check for end play in driveshaft / coupler and lubricate at zerks.
- \_\_\_\_\_ Crankshaft adapter: If equipped with rubber grommets check condition, replace if missing or damaged.
- \_\_\_\_\_ Pivot points: Inject grease until it appears at ends.
- \_\_\_\_\_ Hydraulic fittings: Check for leaks with paper or cardboard. Tighten fittings or replace hoses immediately.
- \_\_\_\_\_ Knives: Inspect for missing or damaged knives, change (only complete sets) as needed.
- \_\_\_\_\_ Belts: Check/Tighten/Replace belts as needed.
- \_\_\_\_\_ Main Frame/Deck: Unless otherwise specified retorque bolts according to torque specifications in this section.
- \_\_\_\_\_ Hydraulic Fluid Level: Add, if required, per fluid recommendations.
- \_\_\_\_\_ Rear Flail Drive, Bearing Flange and Shaft Couplers (if applicable): Grease as instructed in the detailed maintenance section.
- \_\_\_\_\_ Cutter Shaft and Ground Roller: Grease as instructed in the detailed maintenance section.

Service performed by: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Hour

Meter: \_\_\_\_\_

Maintenance Section

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

**MF 5455 TRIPLE FLAIL**

**PARTS SECTION**

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## PARTS ORDERING GUIDE

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

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

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

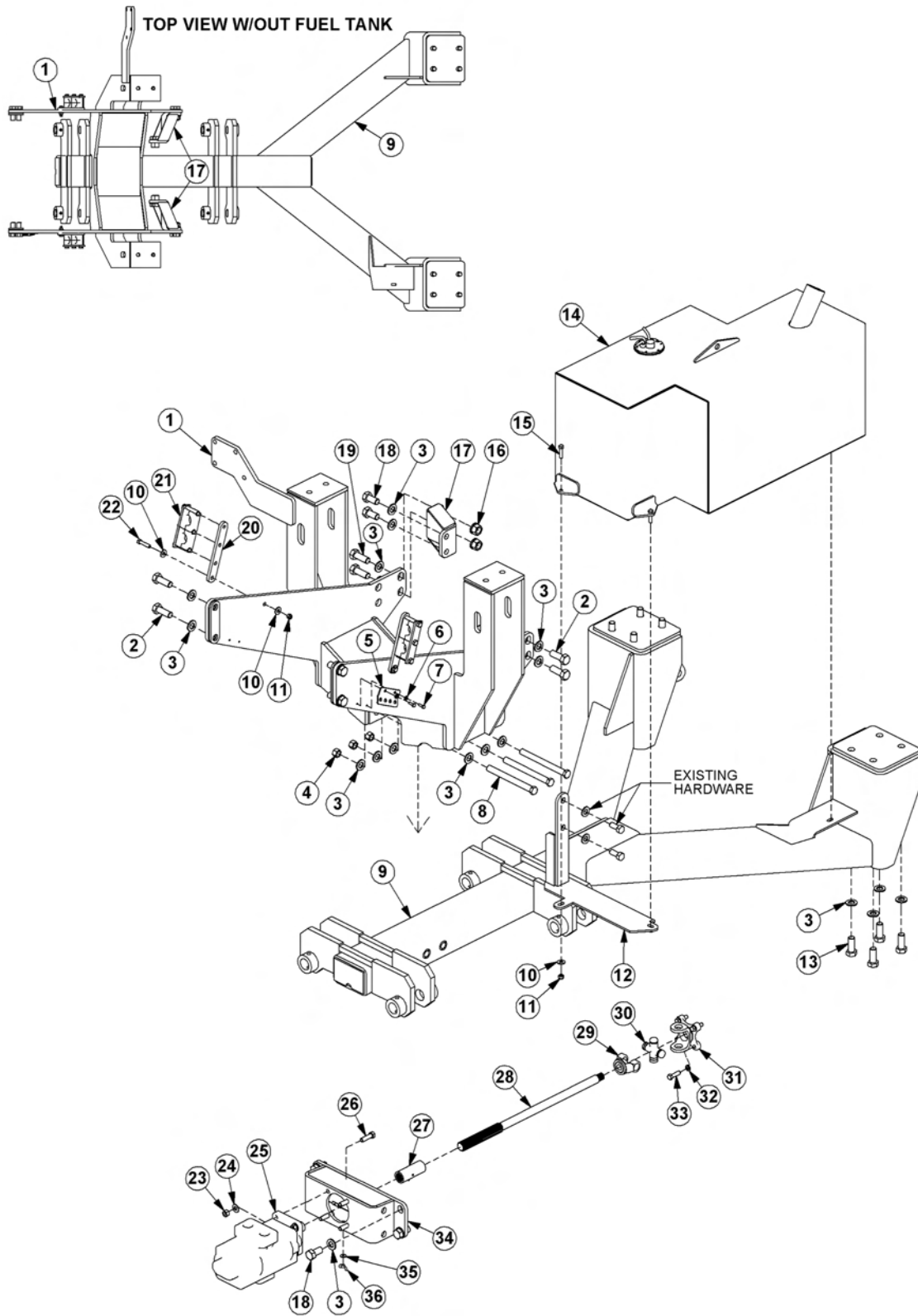


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

# TRACTOR MOUNT KIT



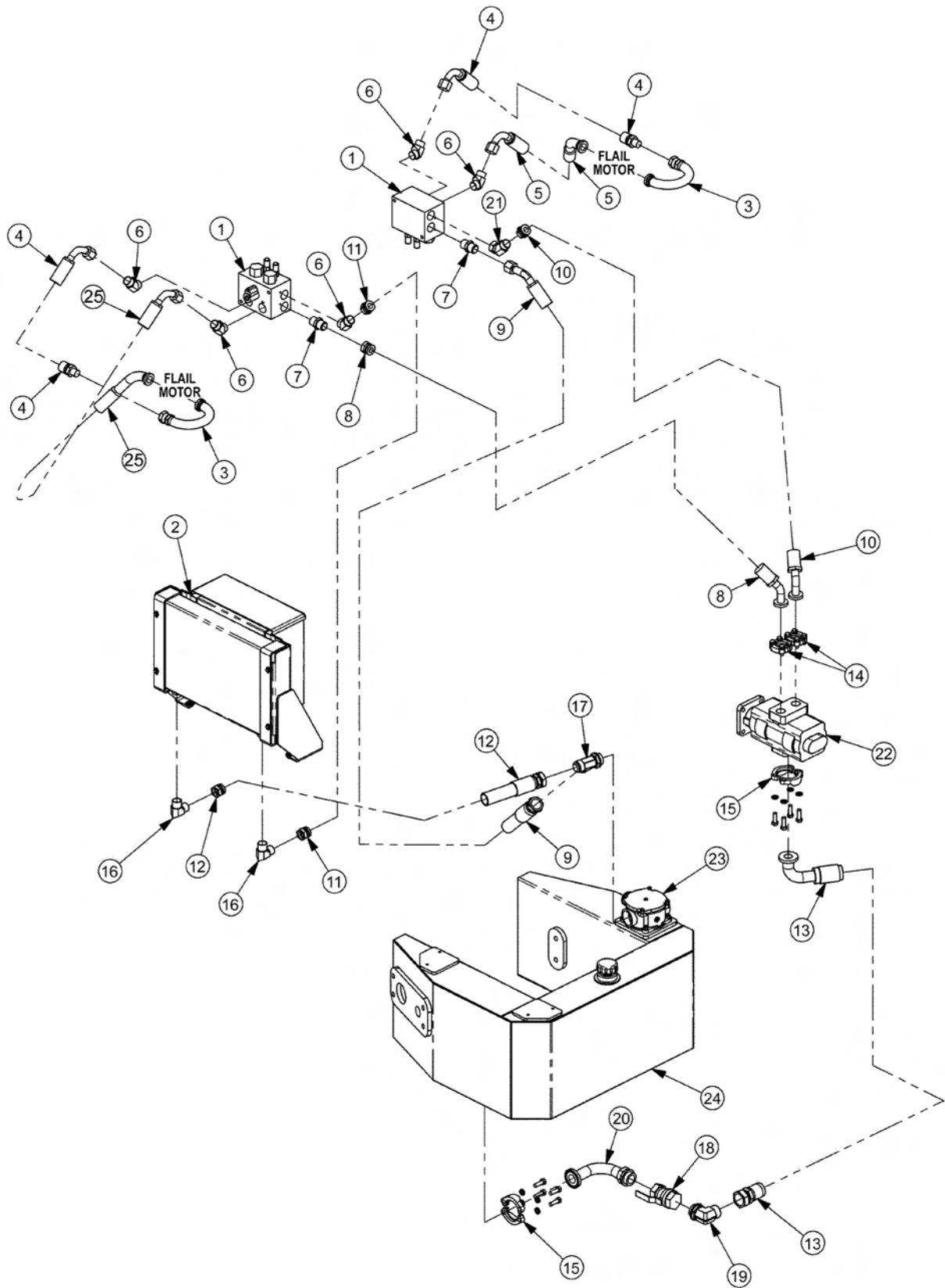


## TRACTOR MOUNT KIT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                           |
|------|----------|------|---------------------------------------|
| 1    | 06300186 | 1    | MAST FRAME                            |
| 2    | 27282    | 6    | CAPSCREW,20MM X 55MM,2.5P             |
| 3    | 33880    | 30   | FLATWASHER,3/4",SAE                   |
| 4    | 21825    | 3    | HEX NUT,3/4",NC                       |
| 5    | 22625    | 1    | BRACKET,GREASE HOSE                   |
| 6    | 21986    | 2    | LOCKWASHER,1/4"                       |
| 7    | 21529    | 2    | CAPSCREW,1/4" X 3/4",NC               |
| 8    | 21845    | 3    | CAPSCREW,3/4" X 8",NC                 |
| 9    | 06300185 | 1    | Y-FRAME                               |
| 10   | 22016    | 7    | FLATWASHER,3/8"                       |
| 11   | 21627    | 5    | NYLOCK NUT,3/8",NC                    |
| 12   | 06370216 | 1    | BRACKET,MOUNT,FUEL TANK               |
| 13   | 31731    | 8    | CAPSCREW,20MM X 50MM,2.5P             |
| 14   | 06370215 | 1    | FUEL TANK                             |
| 15   | 21632    | 3    | CAPSCREW,3/8" X 1-1/2",NC             |
| 16   | 31722    | 4    | HEX NUT,20MM,2.5P,FLNG                |
| 17   | 06300187 | 2    | BRACKET,FRAME                         |
| 18   | 24860    | 8    | CAPSCREW,20MM X 40MM,2.5P             |
| 19   | 24879    | 2    | CAPSCREW,20MM X 65MM,2.5P             |
| 20   | 35271    | 2    | BRACKET,HOSE CLAMP                    |
| 21   | 35131    | 2    | HOSE CLAMP                            |
| 22   | 21633    | 2    | CAPSCREW,3/8" X 1-3/4",NC             |
| 23   | 21725    | 4    | HEX NUT,1/2",NC                       |
| 24   | 06533004 | 4    | FLATWASHER,1/2",SAE                   |
| 25   | TF4450   | 1    | PUMP,TANDEM                           |
| 26   | 21732    | 4    | CAPSCREW,1/2" X 1-3/4",NC             |
| 27   | 6T0375B  | 1    | COUPLER                               |
| 28   | 06420152 | 1    | DRIVESHAFT                            |
| ---  | 32613    | 1    | CRANKSHAFT ADAPTER ASSY (ITEMS 21-23) |
| 29   | 24974    | 1    | YOKE,U-JOINT                          |
| 30   | 24975    | 1    | CROSS,U-JOINT                         |
| 31   | 34614    | 1    | FLANGE WITH YOKE                      |
| 32   | 21989    | 4    | LOCKWASHER,7/16"                      |
| 33   | 21656    | 4    | CAPSCREW,7/16" X 1-1/2",NF            |
| 34   | 32483    | 1    | BRACKET,PUMP MOUNT                    |
| 35   | 22014    | 1    | FLATWASHER,1/4"                       |
| 36   | 32519    | 1    | WING NUT,1/4"                         |

# TRACTOR MOUNT KIT - HYDRAULICS



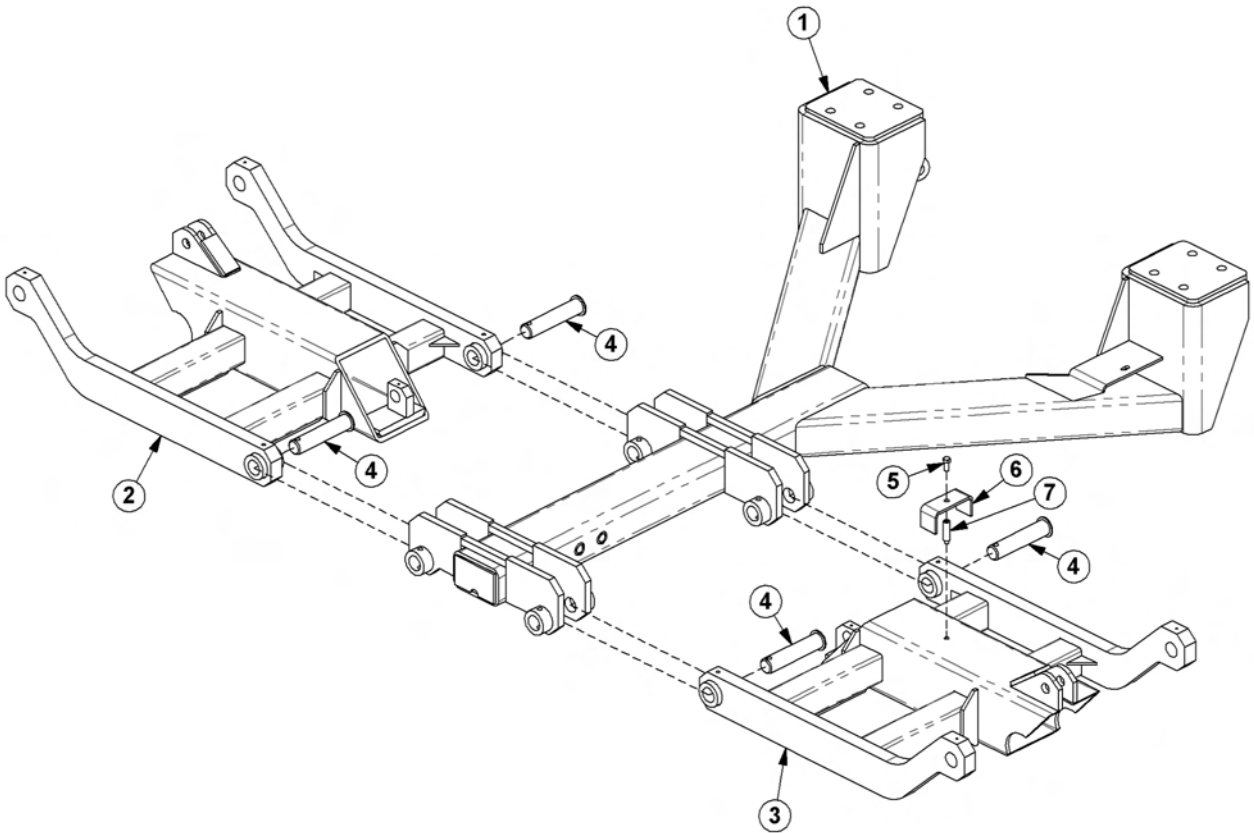
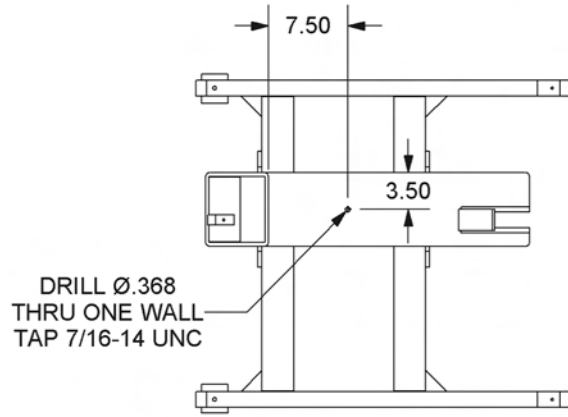
## TRACTOR MOUNT KIT - HYDRAULICS

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 1    | 06510083 | 2    | VALVE,BRAKE                         |
| 2    | 06510026 | 1    | COOLER,FRONT MNT                    |
| 3    | 32920    | 1    | PREFORMED TUBE,1FJX X 16FLG         |
| 4    | 06500644 | 2    | HOSE,1" X 124"                      |
| 5    | 06500641 | 1    | HOSE,1" X 118"                      |
| 6    | 33554    | 6    | ELBOW,1MORBX1MJIC,45                |
| 7    | 33555    | 2    | ADAPTER,1MORBX1MJIC                 |
| 8    | 06500634 | 1    | HOSE,1" X 55"                       |
| 9    | 06500639 | 1    | HOSE,1" X 48"                       |
| 10   | 06500634 | 1    | HOSE,1" X 55"                       |
| 11   | 33455    | 1    | HOSE,1" X 58"                       |
| 12   | 06500260 | 1    | HOSE,1" X 31"                       |
| 13   | 34665    | 1    | HOSE,1-1/2" X 24"                   |
| 14   | TF4852   | 2    | KIT,FLANGE,#20                      |
| 15   | TF4431   | 2    | KIT,FLANGE,#32                      |
| 16   | 34117    | 2    | ELBOW,1MOR X 1MJ90,FORGED           |
| 17   | 34656    | 1    | TEE,RUN,1-1/4ORB X 1-1/4MJ X 1-1/4" |
| 18   | 34309    | 1    | 1-1/2" BALL VALVE                   |
| 19   | 34655    | 1    | ELBOW,1-1/2 X 90°                   |
| 20   | 34389    | 1    | ELBOW,1-1/2ORB X 32FLG90°           |
| 21   | 24724    | 1    | SWIVEL,1MJ X 1FJX45°                |
| 22   | TF4450   | 1    | PUMP,TANDEM                         |
| 23   | 06505044 | 1    | FLTR ASSY,IN-TANK,CPLT              |
| 24   | -----    | 1    | TANK *REFER TO TRACTOR MOUNT KIT    |
| 25   | 06500643 | 1    | HOSE,1" X 125"                      |

# DRAFT BEAM MOUNT

## LEFT DRAFT BEAM

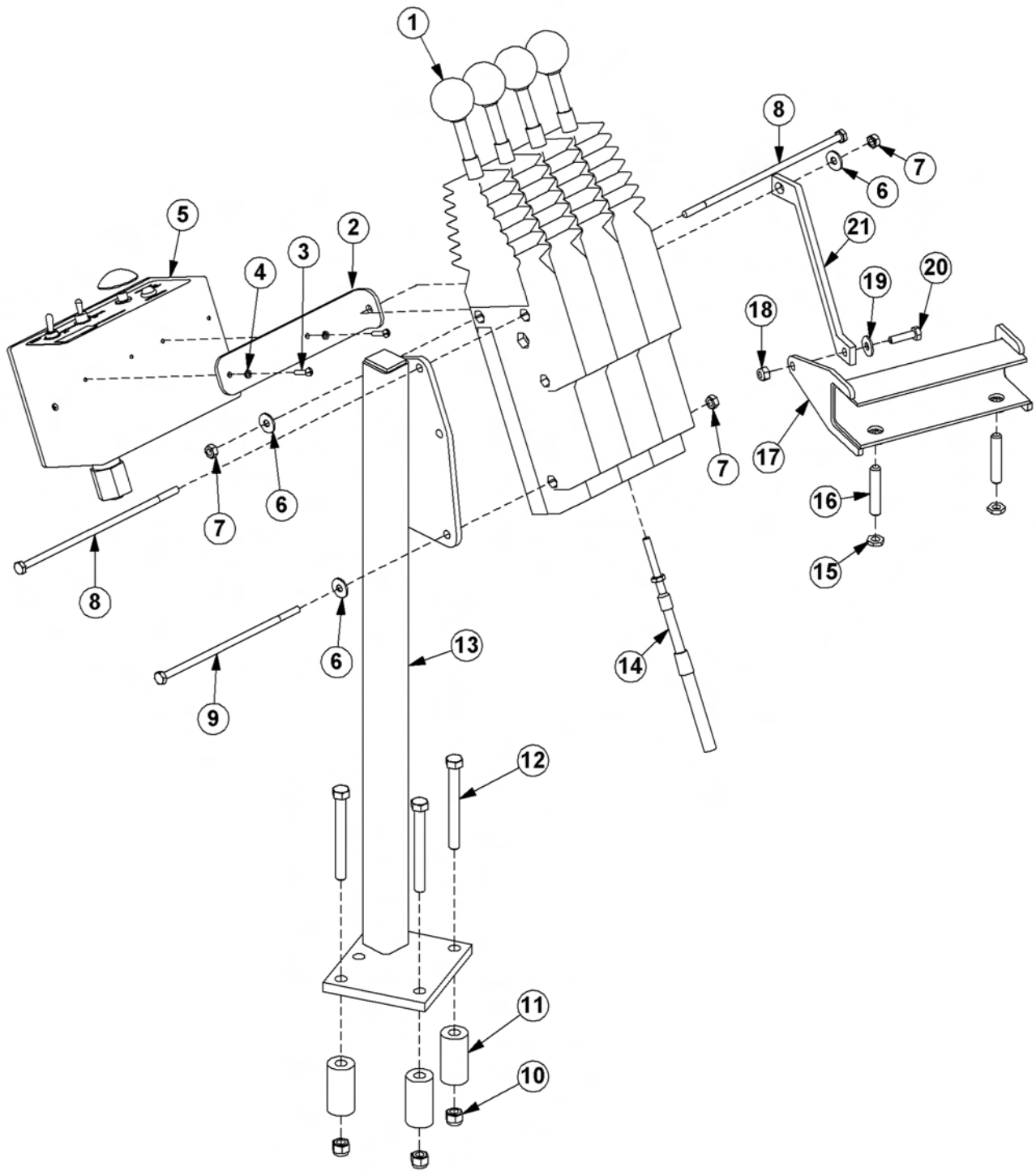


## DRAFT BEAM MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 1    | -----    | 1    | FRAME *REFER TO TRACTOR MOUNT KIT |
| 2    | 30974B   | 1    | DRAFT BEAM,RIGHT                  |
| 3    | 30975B   | 1    | DRAFT BEAM,LEFT                   |
| 4    | -----    | -    | PIN *REFER TO COMMON TRIPLE PARTS |
| 5    | 21679    | 1    | CAPSCREW,7/16" X 1",NC            |
| 6    | 06411621 | 1    | CLAMP,BRACKET,HOSE                |
| 7    | 31916    | 1    | POST,CLAMP                        |

# 4 SPOOL CABLE CONTROL MOUNT

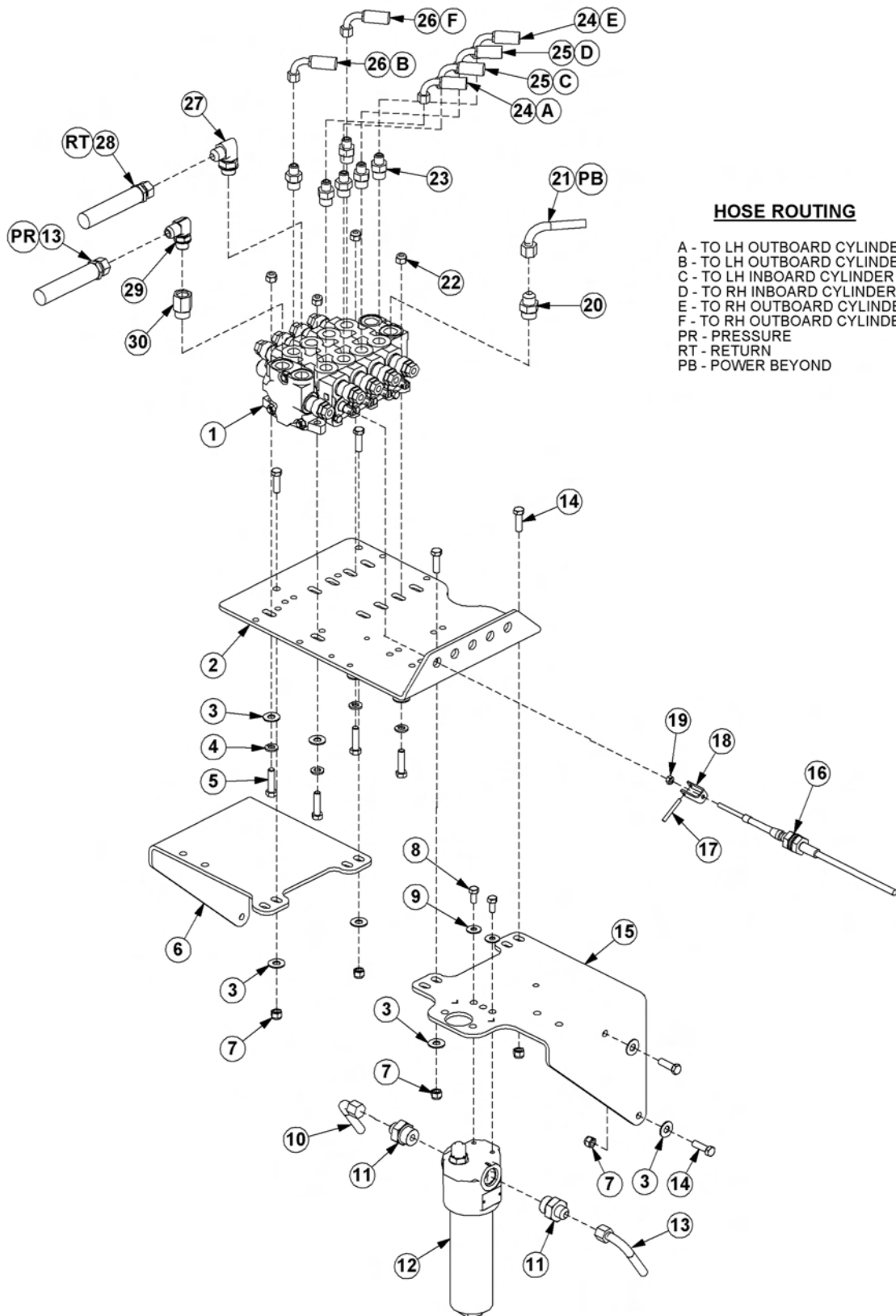


## 4 SPOOL CABLE CONTROL MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| 1    | 6T1251   | 4    | CABLE CONTROL BOX         |
| 2    | 34496    | 1    | BRKT,SWITCHBOX            |
| 3    | 6T3951   | 2    | SCREW,MACHINE,8-32 X 1/2" |
| 4    | 32360    | 2    | LOCKWASHER,#8             |
| 5    | 06510097 | 1    | SWITCHBOX                 |
| 6    | 21986    | 3    | LOCKWASHER,1/4"           |
| 7    | 21525    | 3    | HEX NUT,1/4",NC           |
| 8    | 21547    | 2    | CAPSCREW,1/4" X 8",NC     |
| 9    | 21546    | 1    | CAPSCREW,1/4" X 7",NC     |
| 10   | 21627    | 3    | NYLOCK NUT,3/8",NC        |
| 11   | 41794    | 3    | SPACER                    |
| 12   | 21639    | 3    | CAPSCREW,3/8" X 3-1/4",NC |
| 13   | 31923    | 1    | BRKT,CTRL,CBL             |
| 14   | 34623    | 4    | CBL,CNTRL,122"            |
| 15   | 35206    | 2    | HEX NUT,JAMB,3/8",NC      |
| 16   | 35205    | 2    | SETSCREW,3/8" X 2",NC     |
| 17   | 06370046 | 1    | MOUNT,SWITCHBOX           |
| 18   | 21527    | 1    | NYLOCK NUT,1/4",NC        |
| 19   | 22014    | 1    | FLATWASHER,1/4"           |
| 20   | 21530    | 1    | CAPSCREW,1/4" X 1",NC     |
| 21   | 32545    | 1    | BRACE                     |

# CABLE (MANUAL) LIFT VALVE



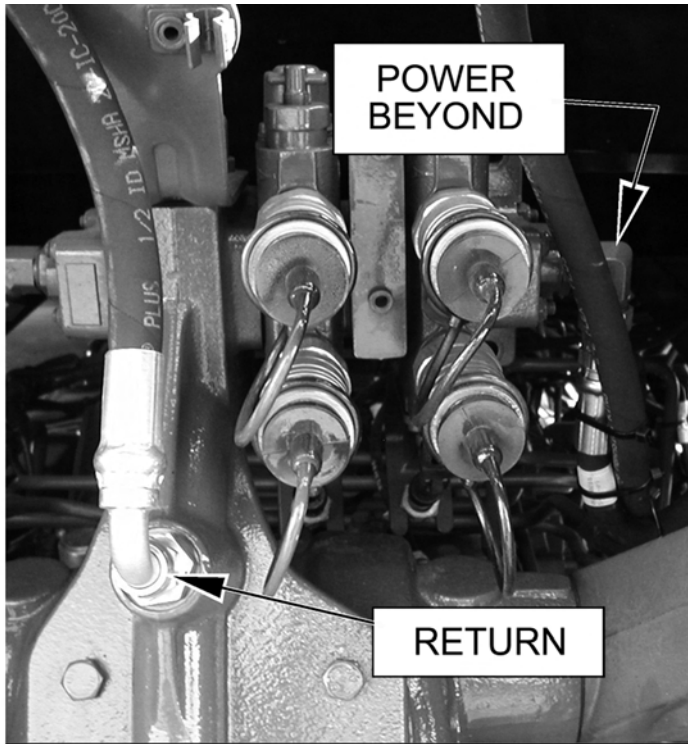


## CABLE (MANUAL) LIFT VALVE

Continued...

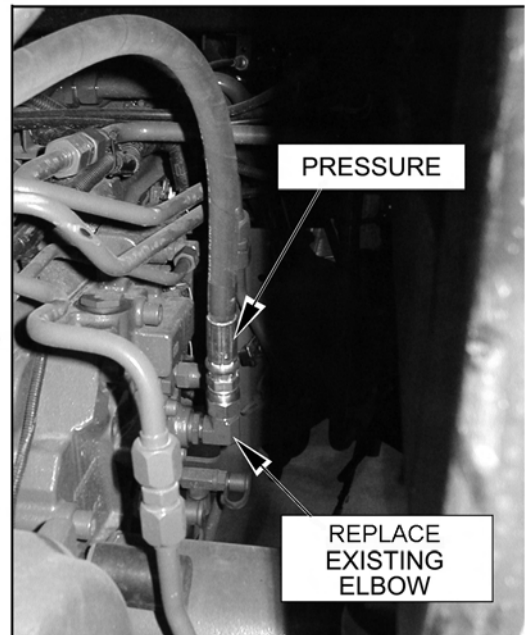
| ITEM | PART NO. | QTY. | DESCRIPTION                 |
|------|----------|------|-----------------------------|
| 1    | 27411    | 1    | VALVE,4 SPOOL,PB            |
| 2    | 34622    | 1    | PLATE,VALVE                 |
| 3    | 22016    | 12   | FLATWASHER,3/8"             |
| 4    | 21988    | 4    | LOCKWASHER,3/8"             |
| 5    | 21632    | 4    | CAPSCREW,3/8" X 1-1/2",NC   |
| 6    | 06340013 | 1    | MOUNT,VALVE,LH              |
| 7    | 21627    | 8    | NYLOCK NUT,3/8",NC          |
| 8    | 21579    | 2    | CAPSCREW,5/16" X 3/4",NC    |
| 9    | 22015    | 2    | FLATWASHER,5/16"            |
| 10   | 06500242 | 1    | HOSE,1/2" X 54"             |
| 11   | 33591    | 2    | ADAPTER,3/4"MOR X 1/2"MJ    |
| 12   | 06505029 | 1    | FILTER,HP,3/4"SAE           |
| ---  | 06505039 | 1    | ELEMENT,FILTER              |
| ---- | 06505081 | 1    | INDICATOR,VIS,FILTER        |
| 13   | 33486    | 1    | HOSE,1/2" X 45"             |
| 14   | 21631    | 8    | CAPSCREW,3/8" X 1-1/4",NC   |
| 15   | 06340014 | 1    | MOUNT,VALVE,RH              |
| 16   | 34623    | 4    | CABLE,CONTROL,122"          |
| 17   | 6T3017   | 4    | ROLLPIN,3/16",SS            |
| 18   | 6T4411   | 4    | CLEVIS                      |
| 19   | 21500    | 4    | HEX NUT,1/4",NF             |
| 20   | 06503011 | 1    | ADAPTER,5/8"MOR X 1/2"MJ    |
| 21   | 06500215 | 1    | HOSE,1/2" X 45"             |
| 22   | 21625    | 4    | HEX NUT,3/8",NC             |
| 23   | 33271    | 6    | ADAPTER,1/2"MOR X 3/8"MJ    |
| 24   | 06500139 | 2    | HOSE,1/4" X 122"            |
| 25   | 06500311 | 2    | HOSE,1/4" X 156"            |
| 26   | 33492    | 2    | HOSE,1/4" X 138"            |
| 27   | 33383    | 1    | ELBOW,5/8"MOR X 1/2"MJ      |
| 28   | 06500171 | 1    | HOSE,1/2" X 36"             |
| 29   | 33293    | 1    | ELBOW,1/2"MOR X 1/2"MJ,LONG |
| 30   | 32678    | 1    | ADAPTER,5/8"MOR X 1/2"FOR   |

## TRACTOR PRESSURE, RETURN & POWER BEYOND



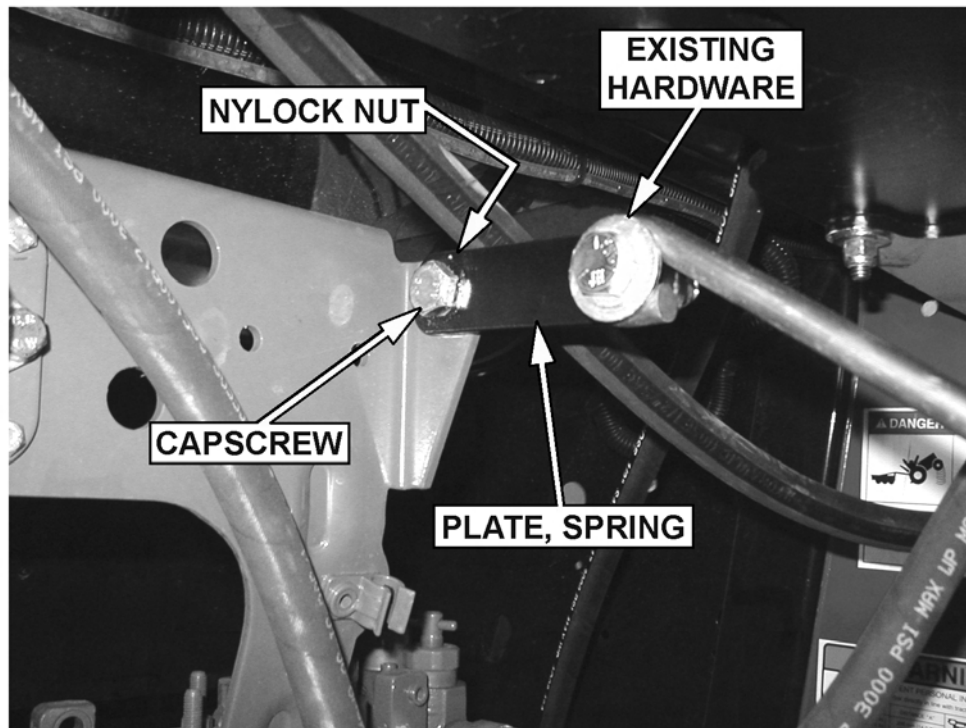
THE POWER BEYOND AND RETURN PORTS CAN BE FOUND BY THE TRACTOR'S REAR REMOTES. YOU WILL NEED TO USE AN ELBOW IN THE POWER BEYOND PORT TIGER PART NUMBER 06503140. YOU WILL NEED TO USE AN ADAPTER IN THE RETURN PORT TIGER PART NUMBER 33463.

THE TRACTOR'S PRESSURE PORT CAN BE FOUND ABOVE THE RIGHT REAR AXLE. YOU WILL NEED TO REPLACE THE EXISTING ELBOW WITH TIGER PART NUMBER 06503139.



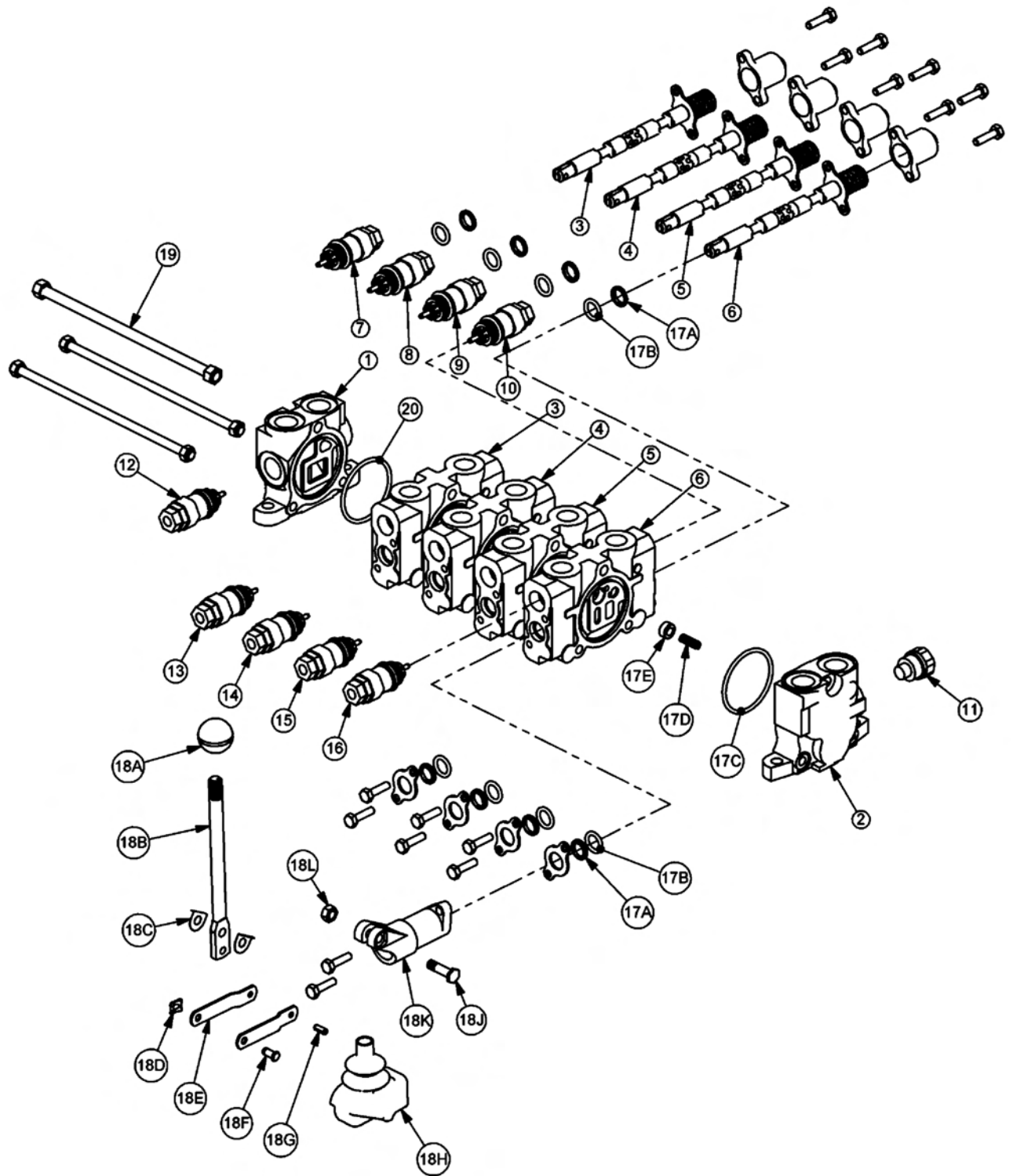
| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| 1    | 06503140 | 1    | ELBOW,22MM MOR X 5/8"MJ   |
| 2    | 06503139 | 1    | ELBOW,18MM MOR X 5/8"MJ   |
| 3    | 33463    | 1    | ADAPTER,22MM MOR X 1/2"MJ |

### 3-POINT ARM EXTENSION



| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| 1    | 21727    | 1    | NYLOCK NUT,1/2",NC        |
| 2    | 21732    | 1    | CAPSCREW,1/2" X 1-3/4",NC |
| 3    | 06400408 | 1    | PLATE,SPRING              |

# CABLE (MANUAL) LIFT VALVE BREAKDOWN - 27411

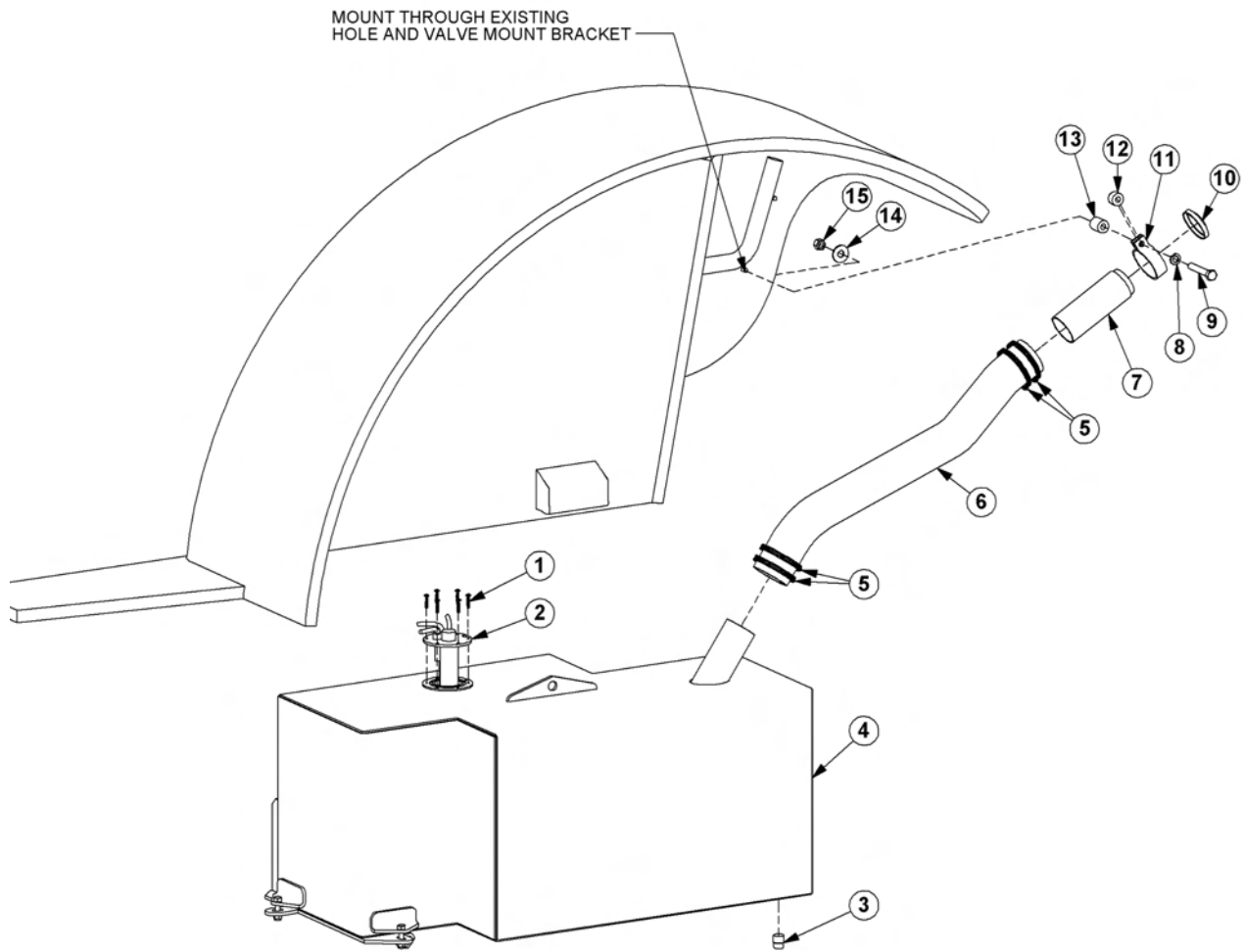


## CABLE (MANUAL) LIFT VALVE BREAKDOWN - 27411

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                   |
|------|----------|------|---|
| 1    | TB1017S  | 1    | INLET END COVER                               |
| 2    | TB1702   | 1    | END COVER,POWER BEYOND                        |
| 3    | TF3009   | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 4    | TF3009   | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 5    | TF3009   | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 6    | TF3009   | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 7    | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 8    | 06503067 | 1    | #10 O-RING PLUG                               |
| 9    | 06503067 | 1    | #10 O-RING PLUG                               |
| 10   | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 11   | TB1017M  | 1    | SHUT-OFF PLUG                                 |
| 12   | 06502037 | 1    | RELIEF VALVE, 2600 PSI                        |
| 13   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 14   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 15   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 16   | 31862    | 1    | RELIEF VALVE, 2175 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                                 |

# FUEL TANK MOUNTING

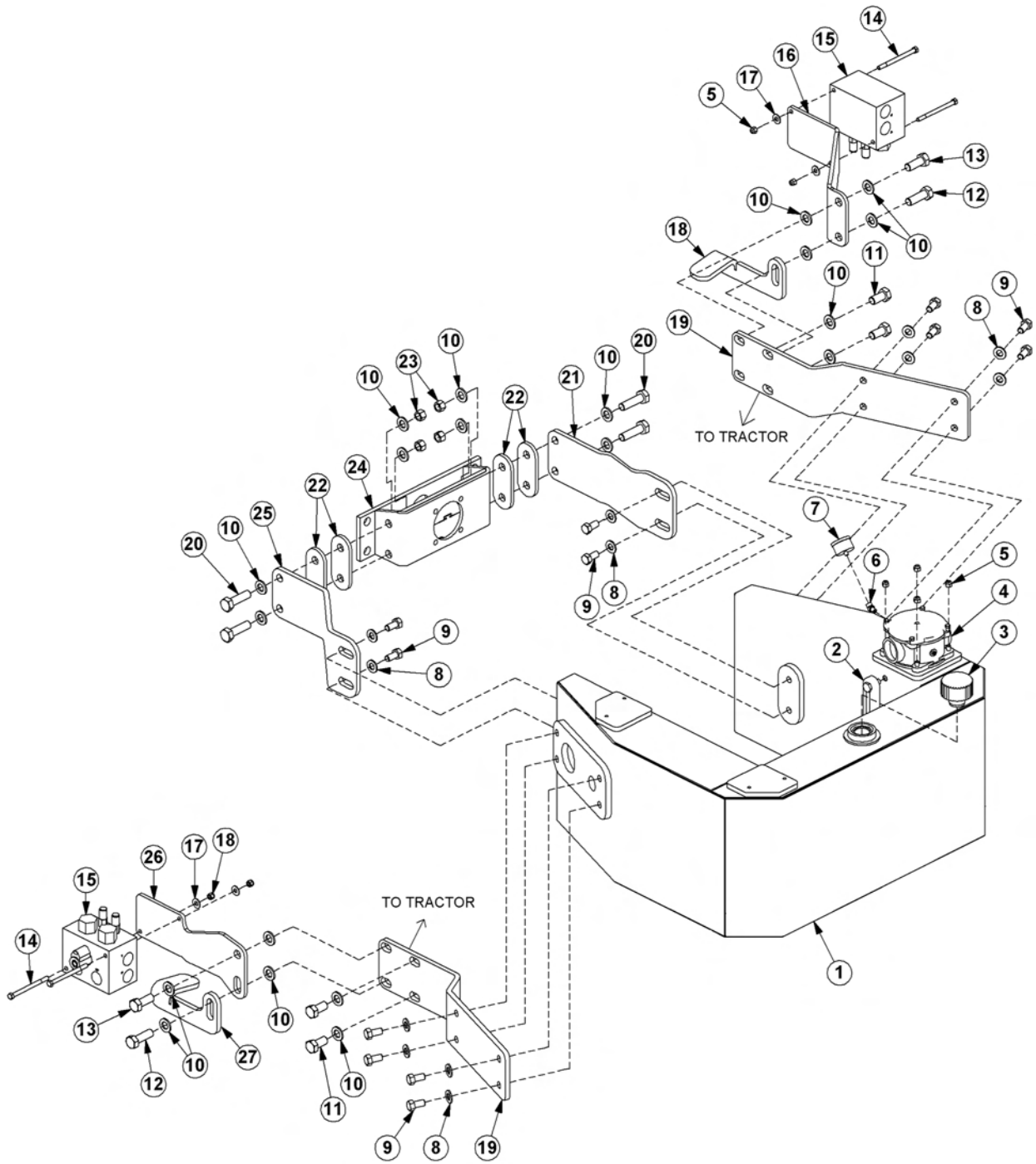


## FUEL TANK MOUNTING

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                |
|------|----------|------|----------------------------|
| 1    | 27260    | 6    | SCREW,MACHINE,10-24 X 1"   |
| 2    | -----    | -    | SENDING UNIT *TRACTOR PART |
| 3    | 6T4201   | 1    | PLUG,PIPE,1/2"             |
| 4    | 06370215 | 1    | FUEL TANK                  |
| 5    | 31065    | 4    | CLAMP,HOSE,#48             |
| 6    | 31064    | 3    | SUCTION HOSE               |
| 7    | 31058A   | 1    | FILLER NECK,TANK           |
| 8    | 21990    | 1    | LOCKWASHER,1/2"            |
| 9    | 21737    | 1    | CAPSCREW,1/2" X 3",NC      |
| 10   | 25391    | 1    | CAP,FUEL TANK              |
| 11   | 31146A   | 1    | CLAMP,FILLER,FUEL TANK     |
| 12   | 23460    | 1    | SPACER,SMALL               |
| 13   | 27082B   | 1    | SPACER,LARGE               |
| 14   | 22018    | 1    | FLATWASHER,1/2",WIDE       |
| 15   | 21725    | 1    | HEX NUT,1/2",NC            |

# BUMPER TANK MOUNT



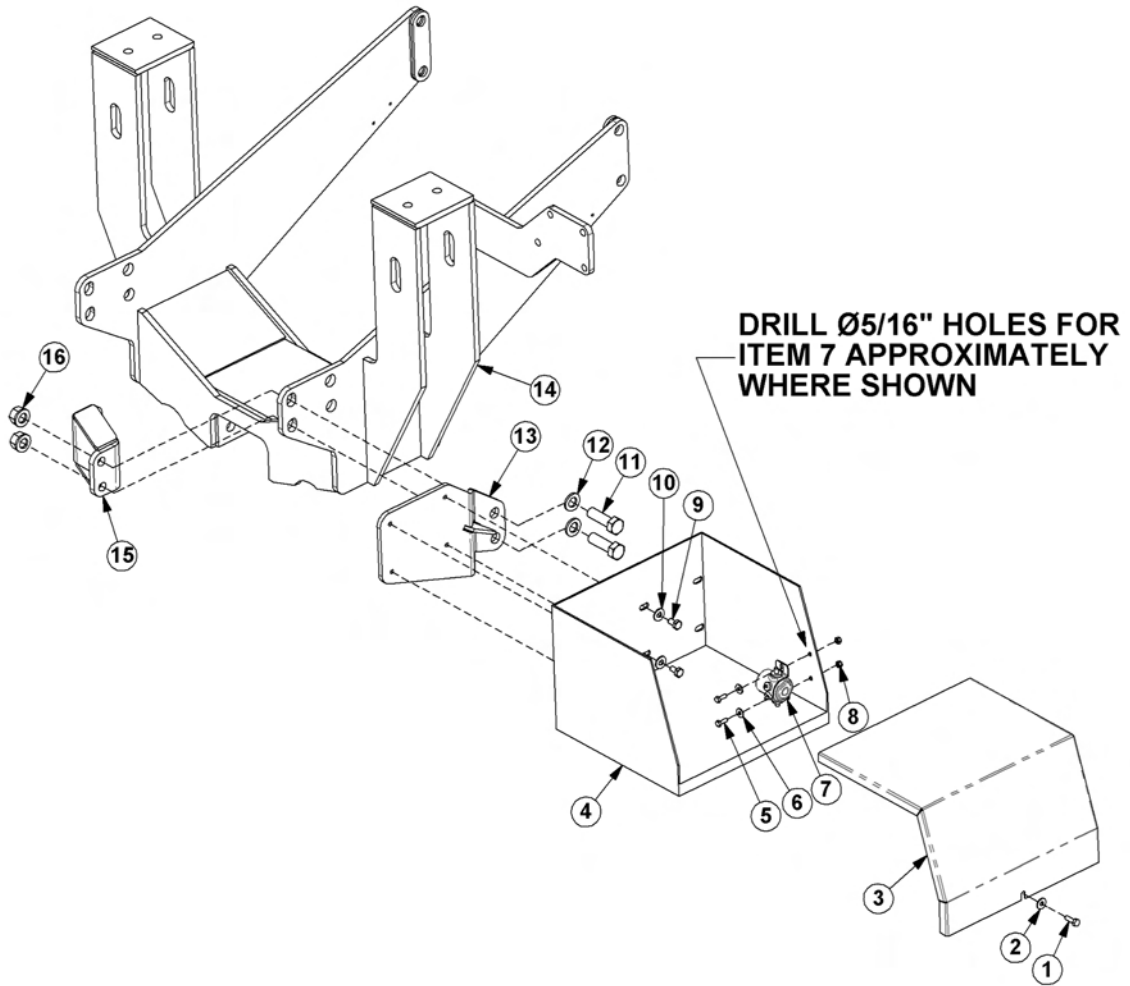


## BUMPER TANK MOUNT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                 |
|------|----------|------|---|
| 1    | 34666    | 1    | TANK,RESERVOIR,ASSY                         |
| ---  | 33695    | 1    | TANK,RESERVOIR,WELDMENT                     |
| 2    | 06505067 | 1    | SIGHT GAGE                                  |
| ---  | 06503136 | 1    | SEAL KIT,SIGHT GAGE                         |
| 3    | 06505077 | 1    | CAP,BREATHER,O-RING                         |
| 4    | 06505044 | 1    | FILTER,RESERVOIR,IN-TANK                    |
| 5    | 21627    | 8    | NYLOCK NUT,3/8",NC                          |
| 6    | TF4887   | 1    | STREET ELBOW,1/8" X 45°                     |
| 7    | 6T0649   | 1    | GAGE,FILTER                                 |
| 8    | 33764    | 12   | FLATWASHER,5/8",SAE                         |
| 9    | 21780    | 12   | CAPSCREW,5/8" X 1-1/4",NC                   |
| 10   | 33880    | 20   | FLATWASHER,3/4",SAE                         |
| 11   | 24860    | 4    | CAPSCREW,20MM X 40MM,2.5P                   |
| 12   | 27281    | 2    | CAPSCREW,20MM X 60MM,2.5P                   |
| 13   | 31731    | 2    | CAPSCREW,20MM X 50MM,2.5P                   |
| 14   | 21644    | 4    | CAPSCREW,3/8" X 5",NC                       |
| 15   | 06510083 | 2    | VALVE,BREAK                                 |
| 16   | 06411387 | 1    | MOUNT,BREAK VALVE,LH                        |
| 17   | 22016    | 4    | FLATWASHER,3/8"                             |
| 18   | 06411419 | 1    | STOP,OSCILLATION,LH                         |
| 19   | 06411388 | 2    | MOUNT,LARGE,TANK                            |
| 20   | 21835    | 4    | CAPSCREW,3/4" X 2-3/4",NC                   |
| 21   | 06410337 | 1    | MOUNT,SMALL,TANK                            |
| 22   | 06400165 | 4    | SPACER                                      |
| 23   | 21825    | 4    | HEX NUT,3/4",NC                             |
| 24   | -----    | -    | PUMP MOUNT *REFER TO TRACTOR MOUNT KIT PAGE |
| 25   | 06410338 | 1    | MOUNT,SMALL,TANK                            |
| 26   | 06410343 | 1    | MOUNT,BREAK VALVE,RH                        |
| 27   | 06411418 | 1    | STOP,OSCILLATION,RH                         |

# BATTERY BOX RELOCATION



## BATTERY BOX RELOCATION

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                              |
|------|----------|------|--|
| 1    | 28583    | 1    | CAPSCREW,8MM X 25MM,1.25P                |
| 2    | 34948    | 1    | FLATWASHER,8MM                           |
| 3    | -----    | -    | BATTERY BOX COVER *EXISTING TRACTOR PART |
| 4    | -----    | -    | BATTERY BOX *EXISTING TRACTOR PART       |
| 5    | 21529    | 2    | CAPSCREW,1/4" X 3/4",NC                  |
| 6    | 22014    | 2    | FLATWASHER,1/4"                          |
| 7    | 6T3927   | 1    | CONTINUOUS DUTY SOLENOID                 |
| 8    | 21527    | 2    | NYLOCK NUT,1/4",NC                       |
| 9    | 21629    | 4    | CAPSCREW,3/8" X 3/4",NC                  |
| 10   | 22016    | 4    | FLATWASHER,3/8"                          |
| 11   | 24879    | 2    | CAPSCREW,20MM X 65MM,2.5P                |
| 12   | 33880    | 2    | FLATWASHER,3/4",SAE                      |
| 13   | 06370217 | 1    | BRACKET,RELOCATION                       |
| 14   | -----    | -    | MAIN FRAME *REFER TO TRACTOR MOUNT KIT   |
| 15   | -----    | -    | SUPPORT BRKT *REFER TO TRACTOR MOUNT KIT |
| 16   | 31722    | 2    | HEX NUT,20MM,2.5P,FLNG                   |

**NOTES**

**NOTES**

**COMMON TRIPLE**

**PARTS SECTION**

# NOTES



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COMMON TRIPLE

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## PARTS ORDERING GUIDE

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

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

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

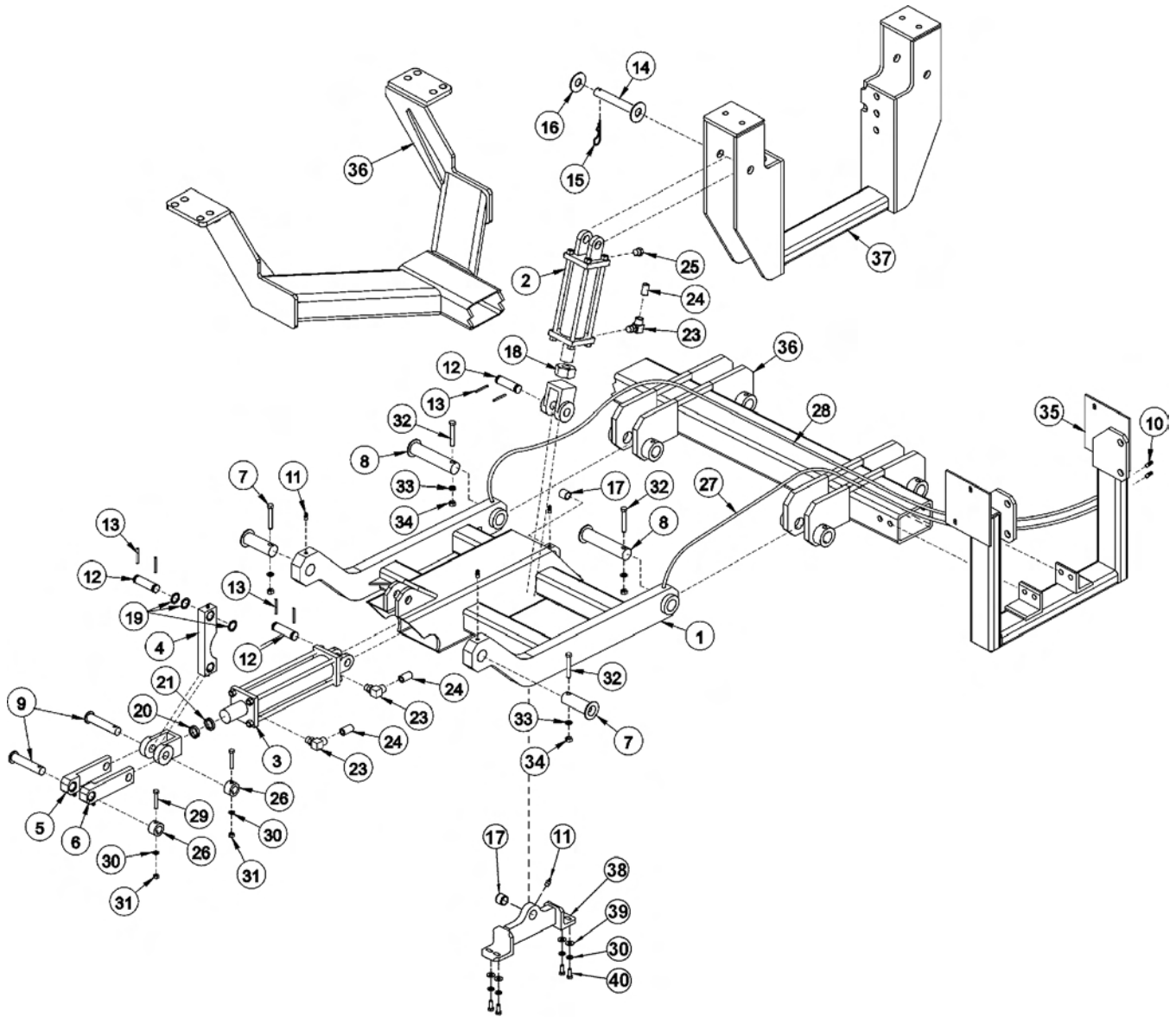


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

## DRAFT BEAM - RIGHT HAND



| ITEM | PART NO. | QTY. | DESCRIPTION                                 |
|------|----------|------|---|
| 1    | -----    | -    | DRAFT BEAM - REFER TO TRACTOR PARTS SECTION |
| 2    | 31211    | 1    | INBOARD CYLINDER                            |
| 3    | 25343    | 1    | OUTBOARD CYLINDER - XD                      |
| ---  | 32215    | 1    | OUTBOARD CYLINDER - SD                      |
| 4    | TF4500A  | 1    | PIVOT ARM                                   |
| 5    | TF4506B  | 1    | LIFT ARM - LH                               |

COMMON TRIPLE

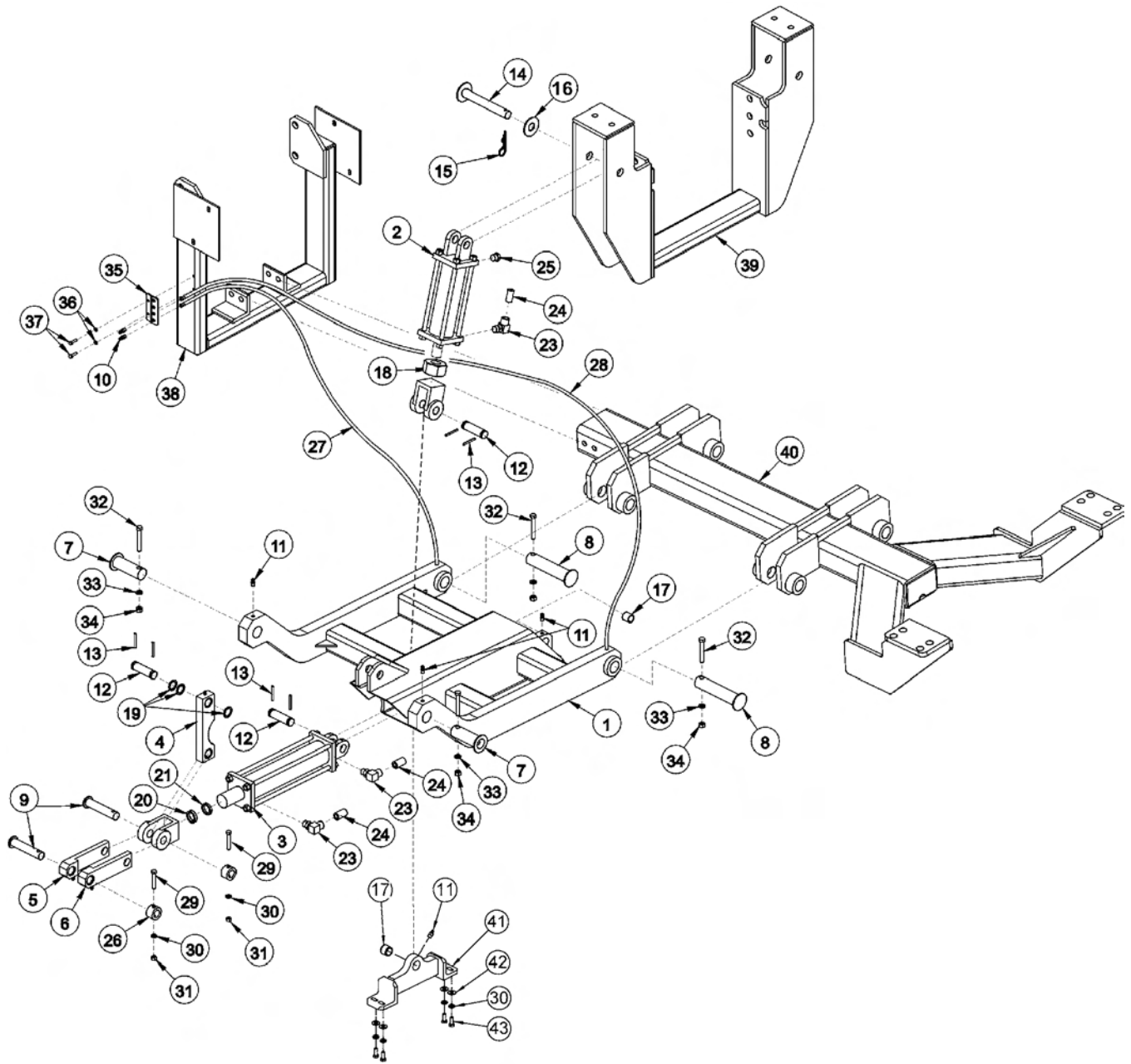
## DRAFT BEAM - RIGHT HAND

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                             |
|------|----------|------|---|
| 6    | TF4507B  | 1    | LIFT ARM - RH                           |
| 7    | TF4514A  | 2    | PIN                                     |
| 8    | TF4515   | 2    | PIN,1-1/2" X 6-3/4"                     |
| 9    | TF4519   | 2    | PIN                                     |
| 10   | TF1033   | 2    | GREASE ZERK,1/8"                        |
| 11   | 6T3207   | 4    | GREASE ZERK,1/4"                        |
| 12   | TB1033   | 3    | CLEVIS PIN                              |
| 13   | 06537021 | 6    | ROLL PIN                                |
| 14   | 6T3005   | 1    | CYLINDER PIN                            |
| 15   | 6T3004   | 1    | R-CLIP                                  |
| 16   | 22023    | 1    | FLATWASHER                              |
| 17   | TB3010   | 2    | BUSHING                                 |
| 18   | 31208    | 1    | SPACER                                  |
| 19   | 23724    | 3    | SHIM                                    |
| 20   | 22076    | 1    | SPACER (AS REQUIRED)                    |
| 21   | 22077    | 1    | SPACER (AS REQUIRED)                    |
| 23   | 34244    | 3    | FITTING                                 |
| 24   | 34396    | 3    | RESTRICTOR                              |
| 25   | 6T4258   | 1    | BREATHER                                |
| 26   | 22847A   | 2    | BOSS                                    |
| 27   | 22851    | 1    | HOSE,3/16" X 37"                        |
| 28   | 22860    | 1    | HOSE,3/16" X 70"                        |
| 29   | 21635    | 2    | CAPSCREW,3/8" X 2-1/4",NC               |
| 30   | 21988    | 6    | LOCKWASHER,3/8"                         |
| 31   | 21625    | 2    | HEX NUT,3/8",NC                         |
| 32   | 21688    | 4    | CAPSCREW,7/16" X 3-1/4",NC              |
| 33   | 21989    | 4    | LOCKWASHER,7/16"                        |
| 34   | 21675    | 4    | HEX NUT,7/16",NC                        |
| 35   | -----    | -    | HANGER - REFER TO TRACTOR PARTS SECTION |
| 36   | -----    | -    | FRAME - REFER TO TRACTOR PARTS SECTION  |
| 37   | -----    | -    | MAST - REFER TO TRACTOR PARTS SECTION   |
| 38   | 06350000 | 1    | CYLINDER ANCHOR                         |
| 39   | 22016    | 4    | FLATWASHER,3/8"                         |
| 40   | 21630    | 4    | CAPSCREW,3/8" X 1",NC                   |

COMMON TRIPLE

## DRAFT BEAM - LEFT HAND



| ITEM | PART NO. | QTY. | DESCRIPTION                                 |
|------|----------|------|---|
| 1    | -----    | -    | DRAFT BEAM - REFER TO TRACTOR PARTS SECTION |
| 2    | 31211    | 1    | INBOARD CYLINDER                            |
| 3    | 25343    | 1    | OUTBOARD CYLINDER - XD                      |
| ---  | 32215    | 1    | OUTBOARD CYLINDER - SD                      |
| 4    | TF4500A  | 1    | PIVOT ARM                                   |
| 5    | TF4506B  | 1    | LIFT ARM - LH                               |

COMMON TRIPLE

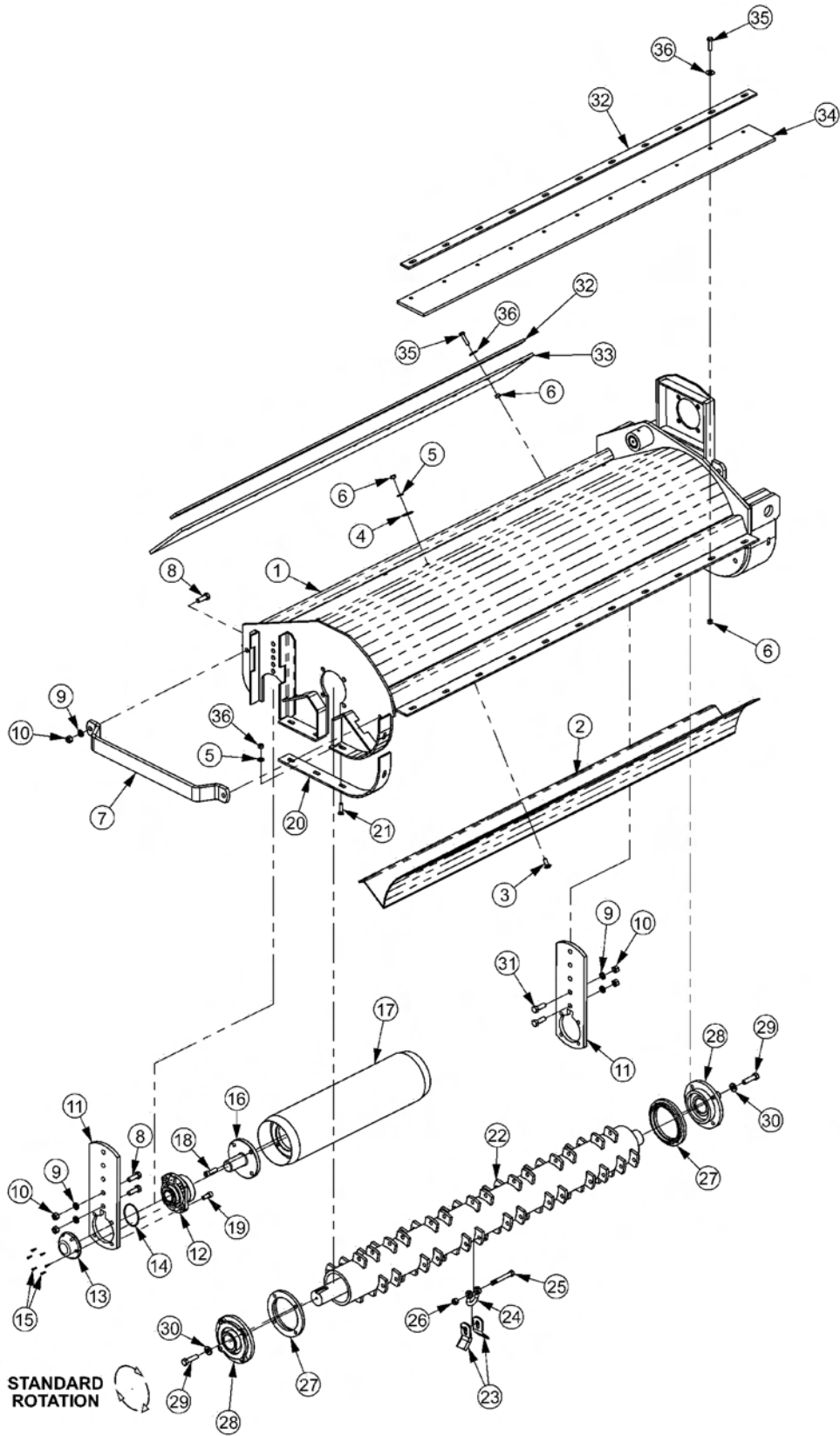
## DRAFT BEAM - LEFT HAND

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                             |
|------|----------|------|---|
| 6    | TF4507B  | 1    | LIFT ARM - RH                           |
| 7    | TF4514A  | 2    | PIN                                     |
| 8    | TF4515   | 2    | PIN,1-1/2" X 6-3/4"                     |
| 9    | TF4519   | 2    | PIN                                     |
| 10   | TF1033   | 2    | GREASE ZERK,1/8"                        |
| 11   | 6T3207   | 4    | GREASE ZERK,1/4"                        |
| 12   | TB1033   | 3    | CLEVIS PIN                              |
| 13   | 06537021 | 6    | ROLL PIN                                |
| 14   | 6T3005   | 1    | CYLINDER PIN                            |
| 15   | 6T3004   | 1    | R-CLIP                                  |
| 16   | 22023    | 1    | FLATWASHER                              |
| 17   | TB3010   | 2    | BUSHING                                 |
| 18   | 31208    | 1    | SPACER                                  |
| 19   | 23724    | 3    | SHIM                                    |
| 20   | 22076    | 1    | SPACER (AS REQUIRED)                    |
| 21   | 22077    | 1    | SPACER (AS REQUIRED)                    |
| 23   | 34244    | 3    | FITTING                                 |
| 24   | 34396    | 3    | RESTRICTOR                              |
| 25   | 6T4258   | 1    | BREATHER                                |
| 26   | 22847A   | 2    | BOSS                                    |
| 27   | 22851    | 1    | HOSE,3/16" X 37"                        |
| 28   | 22660    | 1    | HOSE,3/16" X 70"                        |
| 29   | 21635    | 2    | CAPSCREW,3/8" X 2-1/4",NC               |
| 30   | 21988    | 6    | LOCKWASHER,3/8"                         |
| 31   | 21625    | 2    | HEX NUT,3/8",NC                         |
| 32   | 21688    | 4    | CAPSCREW,7/16" X 3-3/4",NC              |
| 33   | 21989    | 4    | LOCKWASHER,7/16"                        |
| 34   | 21675    | 4    | HEX NUT,7/16",NC                        |
| 35   | 22625    | 1    | GREASE HOSE BRACKET                     |
| 36   | 21986    | 2    | LOCKWASHER,1/4"                         |
| 37   | 21529    | 2    | CAPSCREW,1/4" X 3/4",NC                 |
| 38   | -----    | -    | HANGER - REFER TO TRACTOR PARTS SECTION |
| 39   | -----    | -    | MAST - REFER TO TRACTOR PARTS SECTION   |
| 40   | -----    | -    | FRAME - REFER TO TRACTOR PARTS SECTION  |
| 41   | 06350000 | 1    | CYLINDER ANCHOR                         |
| 42   | 22016    | 4    | FLATWASHER,3/8"                         |
| 43   | 21630    | 4    | CAPSCREW,3/8" X 1",NC                   |

COMMON TRIPLE

# SUPER DUTY 63IN SIDE FLAIL - STD ROT



COMMON TRIPLE

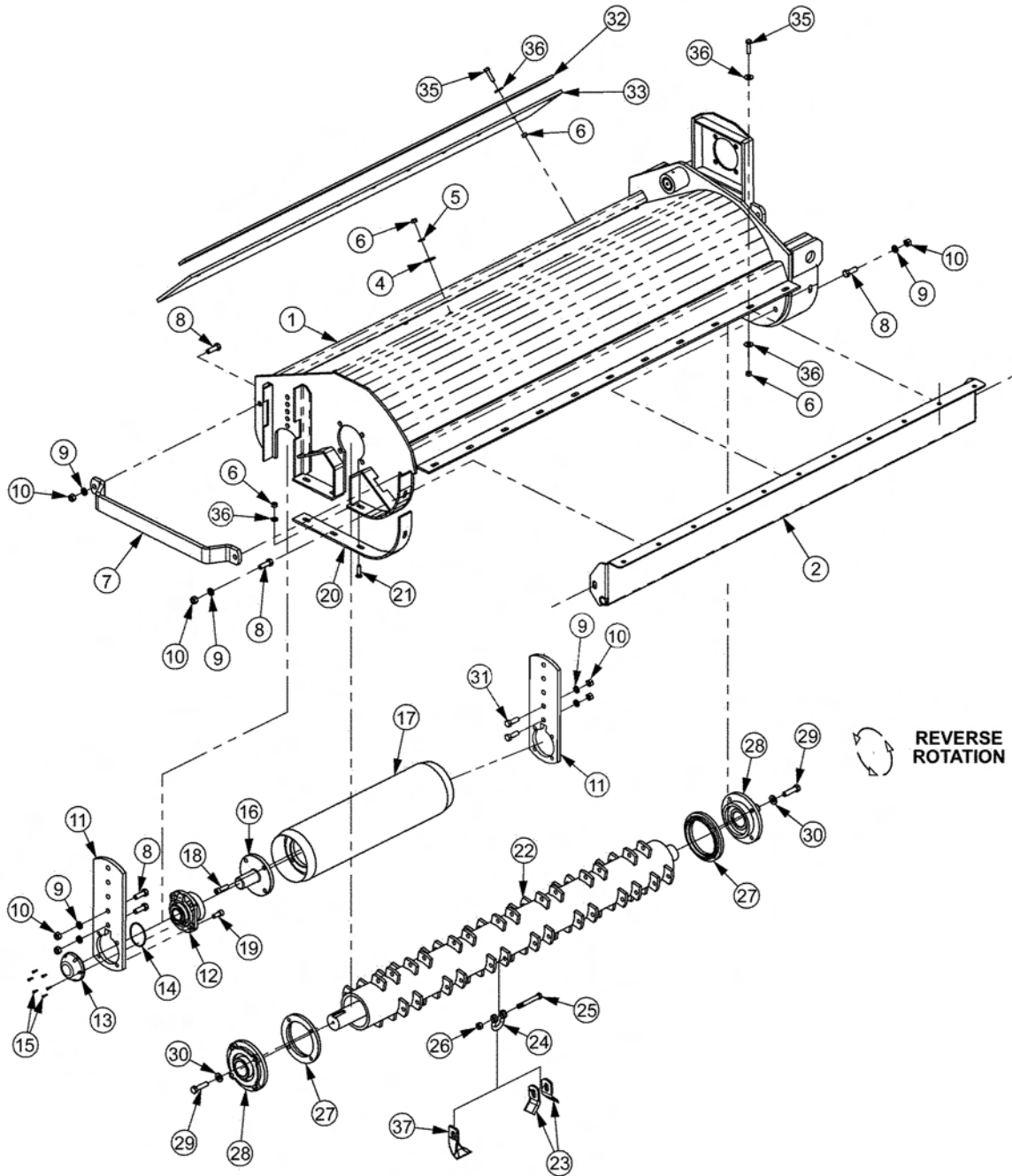
**SUPER DUTY 63IN SIDE FLAIL - STD ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>                |
|-------------|-----------------|-------------|-----------------------------------|
| 1           | 32433           | 1           | BONNET,63",STD,T3F (RIGHT FLAIL)  |
| ---         | 32224           | 1           | BONNET,63",STD,T3F (LEFT FLAIL)   |
| 2           | 28665A          | 1           | BAFFLE,63",STD ROT                |
| 3           | 6T2283          | 8           | CARRIAGE BOLT,3/8" X 1",NC        |
| 4           | 6T2615          | 8           | WASHER,FENDER 3/8"                |
| 5           | 21988           | 8           | LOCKWASHER,3/8"                   |
| 6           | 21625           | 40          | HEX NUT,3/8",NC                   |
| 7           | 27975A          | 1           | GUARD,CUTTERSHAFT                 |
| 8           | 21731           | 4           | CAPSCREW,1/2" X 1-1/2",NC         |
| 9           | 21990           | 6           | LOCKWASHER,1/2"                   |
| 10          | 21725           | 6           | HEX NUT,1/2",NC                   |
| 11          | 28735           | 2           | GROUND ROLLER ADJ BRKT,STD DTY    |
| 12          | 06520028        | 2           | BEARING,FLANGE,1-3/8",GRNDRLR     |
| 13          | 06520027        | 2           | CAP,BEARING,GRNDRLR               |
| 14          | 06520029        | 2           | O-RING,2-3/4" X 3/32",AS568A-148  |
| 15          | 06530001        | 12          | CAPSCREW,SKT HD,8-32 X 1/2",SS    |
| 16          | TF1045B         | 2           | STUB SHAFT,GROUND ROLLER          |
| 17          | 28650A          | 1           | GROUND ROLLER,63"                 |
| 18          | 6T2330          | 8           | CAPSCREW,SKT HD,7/16" X 1-1/2",NC |
| 19          | 6T2331          | 8           | CAPSCREW,SKT HD,7/16" X 1",NC     |
| 20          | 28086A          | 2           | SKID SHOE,STD DUTY REAR FLAIL     |
| 21          | 30013           | 10          | PLOW BOLT,3/8" X 1-1/4",NC,GR5    |
| ---         | 28743           | -           | CUTTERSHAFT ASSY,STANDARD         |
| 22          | 28642C          | 1           | CUTTERSHAFT,63"                   |
| 23          | 33713           | 64          | KNIFE,FLAIL,SHORT,FORGES GORCE    |
| 24          | TF1020          | 32          | KNIFE MTG CLEVIS,FLAIL            |
| 25          | 34011           | 32          | CAPSCREW,7/16" X 3-7/16",NC,GR8   |
| 26          | 21677           | 32          | NYLOCK NUT,7/16",NC               |
| 27          | 33863           | 2           | STRING GUARD,STD                  |
| 28          | 28683           | 2           | BEARING,FLANGE,1-15/16",STD,TSF   |
| 29          | 06530217        | 8           | CAPSCREW,1/2" X 2",NC,L9          |
| 30          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9            |
| 31          | 21732           | 2           | CAPSCREW,1/2" X 1-3/4",NC         |
| 32          | 28700           | 2           | BAR,FLAP,TSF/TBF,63"              |
| 33          | 28701           | 1           | FLAP,DEFLECTOR,TSF,63"            |
| 34          | 06520241        | 1           | FLAP,63",FRONT                    |
| 35          | 21632           | 22          | CAPSCREW,3/8" X 1-1/2",NC         |
| 36          | 22016           | 32          | FLATWASHER,3/8"                   |

COMMON TRIPLE

# SUPER DUTY 63IN SIDE FLAIL - REV ROT



COMMON TRIPLE



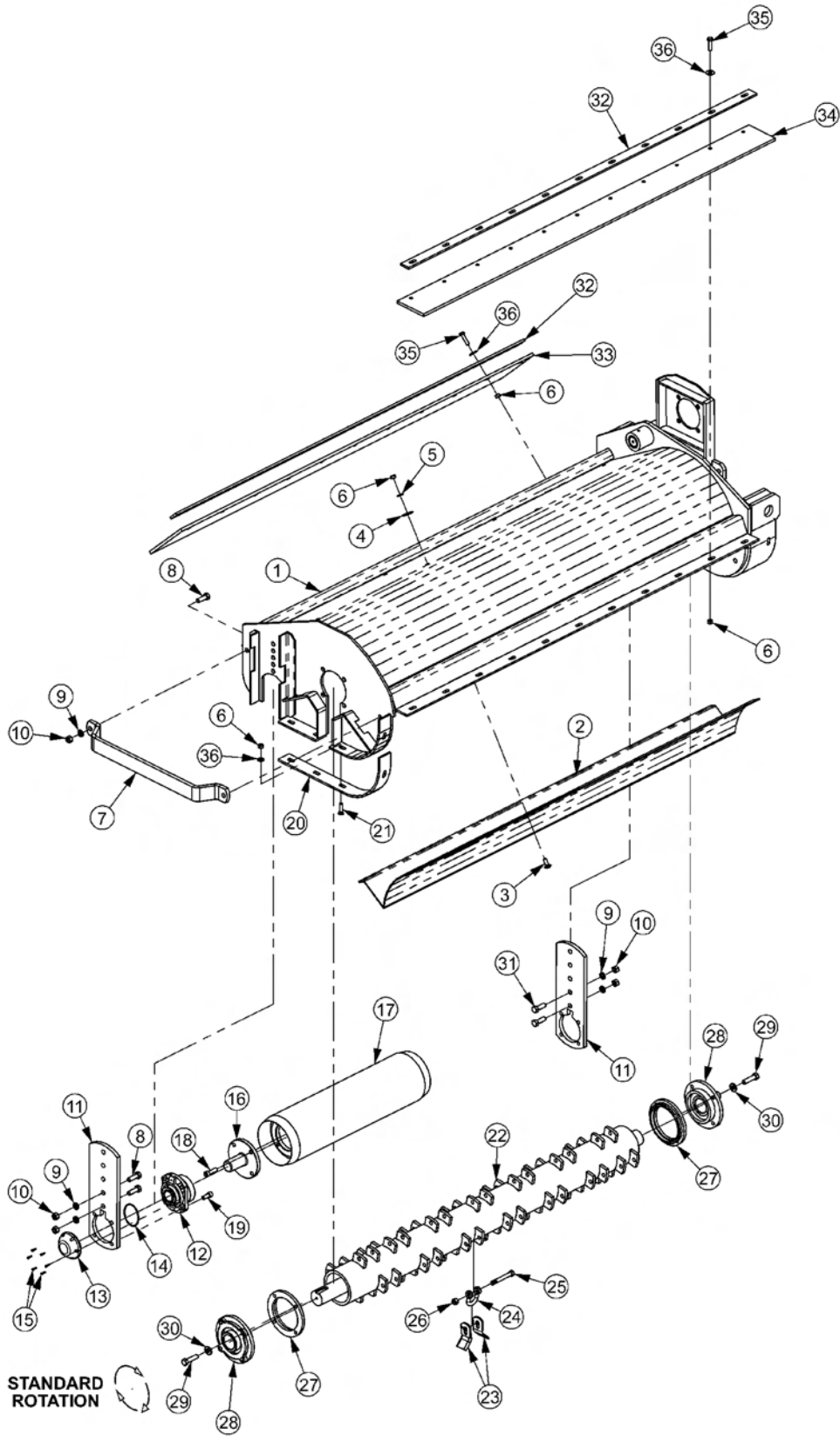
## SUPER DUTY 63IN SIDE FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 1    | 32433    | 1    | BONNET,63",STD,T3F (RIGHT FLAIL)  |
| ---  | 32224    | 1    | BONNET,63",STD,T3F (LEFT FLAIL)   |
| 2    | 28969A   | 1    | TRASH GUARD,63",REV ROT           |
| 3    | 6T2283   | 8    | CARRIAGE BOLT,3/8" X 1",NC        |
| 4    | 6T2615   | 8    | WASHER,FENDER,3/8"                |
| 5    | 21988    | 8    | LOCKWASHER,3/8"                   |
| 6    | 21625    | 40   | HEX NUT,3/8",NC                   |
| 7    | 27975A   | 1    | GUARD,CUTTERSHAFT                 |
| 8    | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC         |
| 9    | 21990    | 8    | LOCKWASHER,1/2"                   |
| 10   | 21725    | 8    | HEX NUT,1/2",NC                   |
| 11   | 28735    | 2    | GROUND ROLLER ADJ BRKT,STD DTY    |
| 12   | 06520028 | 2    | BEARING,FLANGE,1-3/8",GRNDRLR     |
| 13   | 06520027 | 2    | CAP,BEARING,GRNDRLR               |
| 14   | 06520029 | 2    | O-RING,2-3/4" X 3/32",AS568A-148  |
| 15   | 06530001 | 12   | CAPSCREW,SKT HD,8-32 X 1/2",SS    |
| 16   | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER          |
| 17   | 28650A   | 1    | GROUND ROLLER,63"                 |
| 18   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16" X 1-1/2",NC |
| 19   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16" X 1",NC     |
| 20   | 28086A   | 2    | SKID SHOE,STD DUTY REAR FLAIL     |
| 21   | 30013    | 10   | PLOW BOLT,3/8" X 1-1/4",NC,GR5    |
| ---  | 28743    | -    | CUTTERSHAFT ASSY,STANDARD CUT     |
| ---- | 28744    | -    | CUTTERSHAFT ASSY,SMOOTH CUT       |
| 22   | 28642C   | 1    | CUTTERSHAFT,63"                   |
| 23   | 33713    | 64   | FLAIL KNIVES (STANDARD CUT)       |
| 24   | TF1020   | 32   | KNIFE MTG CLEVIS,FLAIL            |
| 25   | 34011    | 32   | CAPSCREW,7/16" X 3-7/16",NC,GR8   |
| 26   | 21677    | 32   | NYLOCK NUT,7/16",NC               |
| 27   | 33863    | 2    | STRING GUARD,STD                  |
| 28   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD,TSF   |
| 29   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9          |
| 30   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9            |
| 31   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC         |
| 32   | 28700    | 1    | BAR,FLAP,TSF/TBF,63"              |
| 33   | 28701    | 1    | FLAP,DEFLECTOR,TSF,63"            |
| 35   | 21632    | 22   | CAPSCREW,3/8" X 1-1/2",NC         |
| 36   | 22016    | 43   | FLATWASHER,3/8"                   |
| 37   | 28184A   | 32   | FLAIL KNIVES (SMOOTH CUT)         |

COMMON TRIPLE

# SUPER DUTY 75IN SIDE FLAIL - STD ROT



COMMON TRIPLE

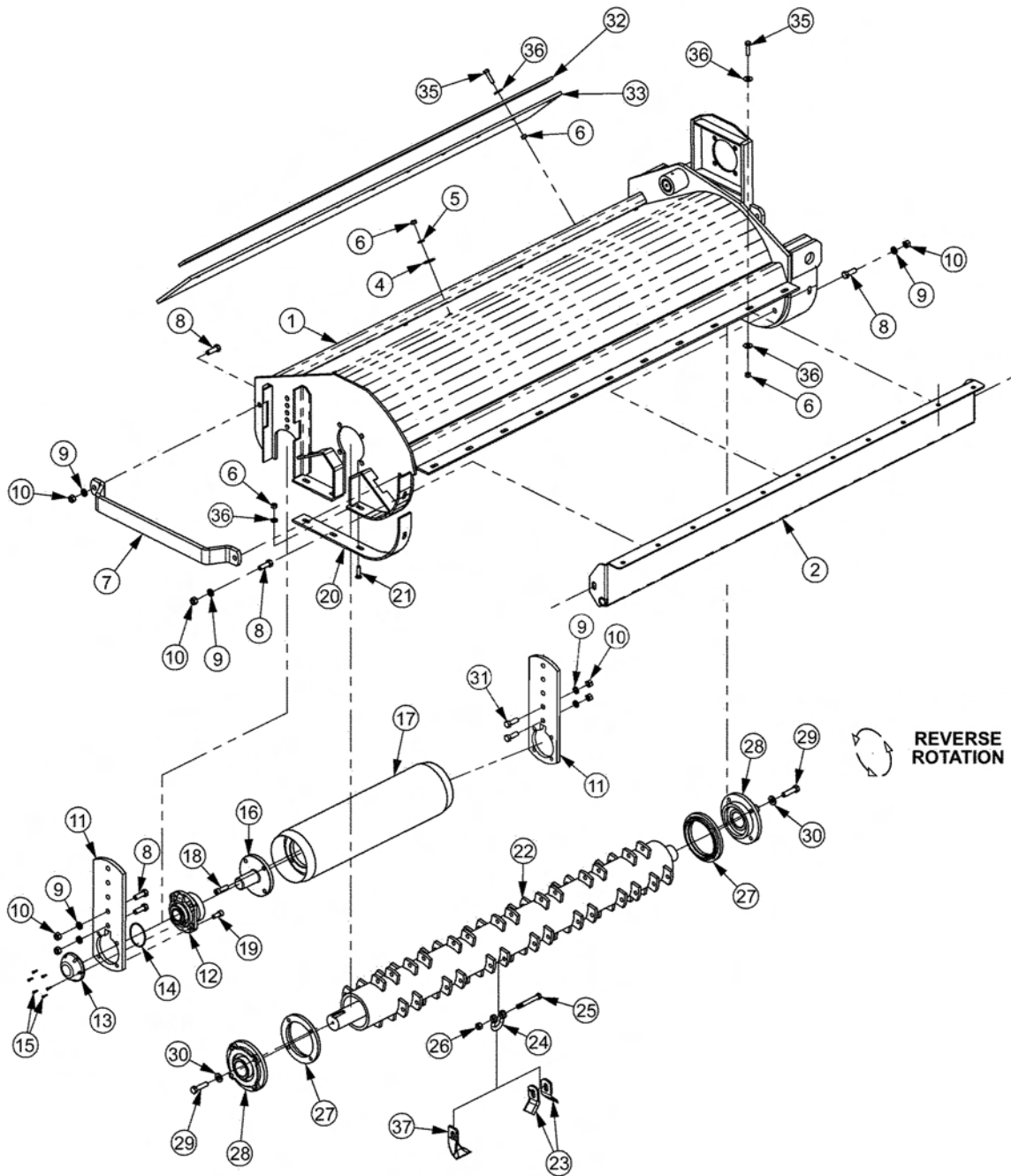
## SUPER DUTY 75IN SIDE FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                          |
|------|----------|------|--------------------------------------|
| 1    | 06320109 | 1    | BONNET,75",STD,T3F (RIGHT FLAIL)     |
| ---  | 06320108 | 1    | BONNET,75",STD,T3F (LEFT FLAIL)      |
| 2    | 28737    | 1    | BAFFLE,75",STD ROT-STD               |
| 3    | 6T2283   | 10   | CARRIAGE BOLT,3/8" X 1",NC           |
| 4    | 6T2615   | 10   | WASHER,FENDER,3/8"                   |
| 5    | 21988    | 10   | LOCKWASHER,3/8"                      |
| 6    | 21625    | 46   | HEX NUT,3/8",NC                      |
| 7    | 27975A   | 1    | GUARD,CUTTERSHAFT                    |
| 8    | 21731    | 4    | CAPSCREW,1/2" X 1-1/2",NC            |
| 9    | 21990    | 6    | LOCKWASHER,1/2"                      |
| 10   | 21725    | 6    | HEX NUT,1/2",NC                      |
| 11   | 28735    | 2    | GROUND ROLLER ADJ BRKT,STD DTY       |
| 12   | 06520028 | 2    | BEARING,FLANGE,1-3/8,GRNDRLR         |
| 13   | 06520027 | 2    | CAP,BEARING,GRNDRLR                  |
| 14   | 06520029 | 2    | O-RING,2-3/4 X 3/32",AS568A-148      |
| 15   | 06530001 | 12   | CAPSCREW,SKT HD,8-32 X 1/2",SS       |
| 16   | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER             |
| 17   | 28738    | 1    | GROUND ROLLER,75"                    |
| 18   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16" X 1-1/2",NC    |
| 19   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16" X 1",NC        |
| 20   | 28086A   | 2    | SKID SHOE,STD DUTY REAR FLAIL        |
| 21   | 30013    | 10   | PLOW BOLT,3/8" X 1-1/4",NC,GR5       |
| ---  | 28747    | -    | CUTTERSHAFT ASSY,STANDARD            |
| 22   | 28643B   | 1    | CUTTERSHAFT,75"                      |
| 23   | 33713    | 80   | KNIFE,FLAIL,SHORT,FORGES GORCE       |
| 24   | TF1020   | 40   | KNIFE MTG CLEVIS,FLAIL               |
| 25   | 34011    | 40   | CAPSCREW,7/16" X 3-7/16",NC,GR8      |
| 26   | 21677    | 40   | NYLOCK NUT,7/16",NC                  |
| ---  | 06200639 | -    | STRING GUARD KIT,SD (ITEMS 27,29,30) |
| 27   | 33863    | 2    | STRING GUARD,STD                     |
| 28   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD,TSF      |
| 29   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9             |
| 30   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9               |
| 31   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC            |
| 32   | TF1029   | 2    | BAR,FLAP,TSF/TBF,75"                 |
| 33   | TF1016   | 1    | FLAP,DEFLECTOR,TSF,75"               |
| 34   | 06520242 | 1    | FLAP,75",FRONT                       |
| 35   | 21632    | 26   | CAPSCREW,3/8" X 1-1/2",NC            |
| 36   | 22016    | 36   | FLATWASHER,3/8"                      |

COMMON TRIPLE

# SUPER DUTY 75IN SIDE FLAIL - REV ROT



COMMON TRIPLE

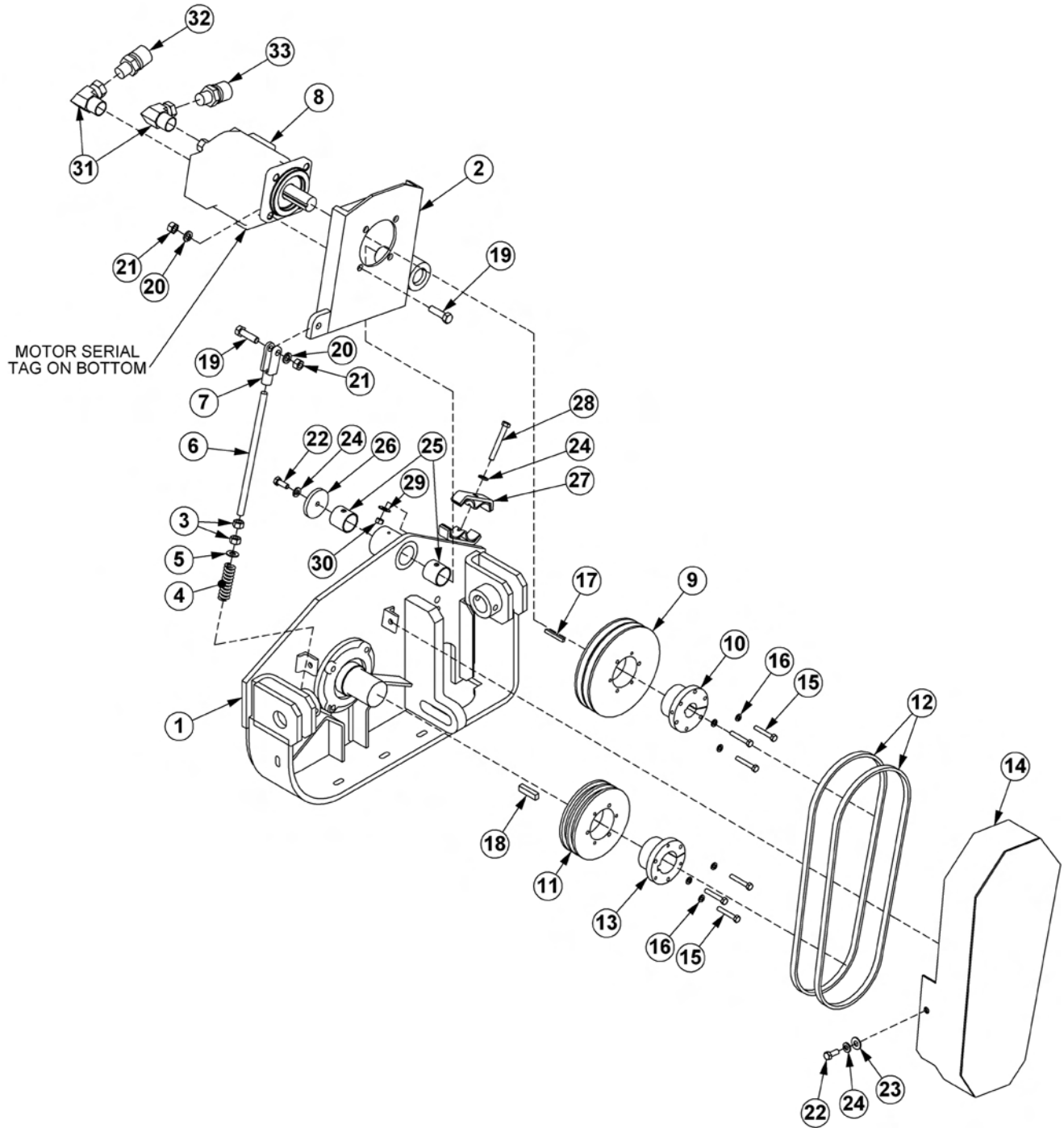
## SUPER DUTY 75IN SIDE FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                     |
|------|----------|------|---|
| 1    | 06320109 | 1    | BONNET,75,STD,T3F (RIGHT FLAIL)                 |
| ---  | 06320108 | 1    | BONNET,75,STD,T3F (LEFT FLAIL)                  |
| 2    | 28968A   | 1    | TRASH GUARD,75"                                 |
| 3    | 6T2283   | 10   | CARRIAGE BOLT,3/8" X 1",NC                      |
| 4    | 6T2615   | 10   | WASHER,FENDER,3/8"                              |
| 5    | 21988    | 10   | LOCKWASHER,3/8"                                 |
| 6    | 21625    | 36   | HEX NUT,3/8",NC                                 |
| 7    | 27975A   | 1    | GUARD,CUTTERSHAFT                               |
| 8    | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC                       |
| 9    | 21990    | 8    | LOCKWASHER,1/2"                                 |
| 10   | 21725    | 8    | HEX NUT,1/2",NC                                 |
| 11   | 28735    | 2    | GROUND ROLLER ADJ BRKT,STD DTY                  |
| 12   | 06520028 | 2    | BEARING,FLANGE,1-3/8",GRNDRLR                   |
| 13   | 06520027 | 2    | CAP,BEARING,GRNDRLR                             |
| 14   | 06520029 | 2    | O-RING,2-3/4" X 3/32",AS568A-148                |
| 15   | 06530001 | 12   | CAPSCREW,SKT HD,8-32 X 1/2",SS                  |
| 16   | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER                        |
| 17   | 28738    | 1    | GROUND ROLLER,75"                               |
| 18   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16" X 1-1/2",NC               |
| 19   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16" X 1",NC                   |
| 20   | 28086A   | 2    | SKID SHOE,STD DUTY REAR FLAIL                   |
| 21   | 30013    | 10   | PLOW BOLT,3/8" X 1-1/4",NC,GR5                  |
| ---  | 28747    | -    | CUTTERSHAFT ASSY,STANDARD (22, 23, 24, 25 & 26) |
| ---- | 28748    | -    | CUTTERSHAFT ASSY,SMOOTH (22, 23, 24, 25 & 37)   |
| 22   | 28643B   | 1    | CUTTERSHAFT,75"                                 |
| 23   | 33713    | 80   | FLAIL KNIVES (STANDARD CUT)                     |
| 24   | TF1020   | 40   | KNIFE MTG CLEVIS,FLAIL                          |
| 25   | 34011    | 40   | CAPSCREW,7/16" X 3-7/16",NC,GR8                 |
| 26   | 21677    | 40   | NYLOCK NUT,7/16",NC                             |
| ---  | 06200639 | -    | STRING GUARD KIT, SD (ITEMS 27,29,30)           |
| 27   | 33863    | 2    | STRING GUARD,STD                                |
| 28   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD,TSF                 |
| 29   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9                        |
| 30   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9                          |
| 31   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC                       |
| 32   | TF1029   | 1    | BAR,FLAP,TSF/TBF,75"                            |
| 33   | TF1016   | 1    | FLAP,DEFLECTOR,TSF,75"                          |
| 35   | 21632    | 22   | CAPSCREW,3/8" X 1-1/2",NC                       |
| 36   | 22016    | 46   | FLATWASHER,3/8"                                 |
| 37   | 28184A   | 40   | FLAIL KNIVES (SMOOTH CUT)                       |

COMMON TRIPLE

# SUPER DUTY SIDE FLAIL DRIVE ASSY



COMMON TRIPLE

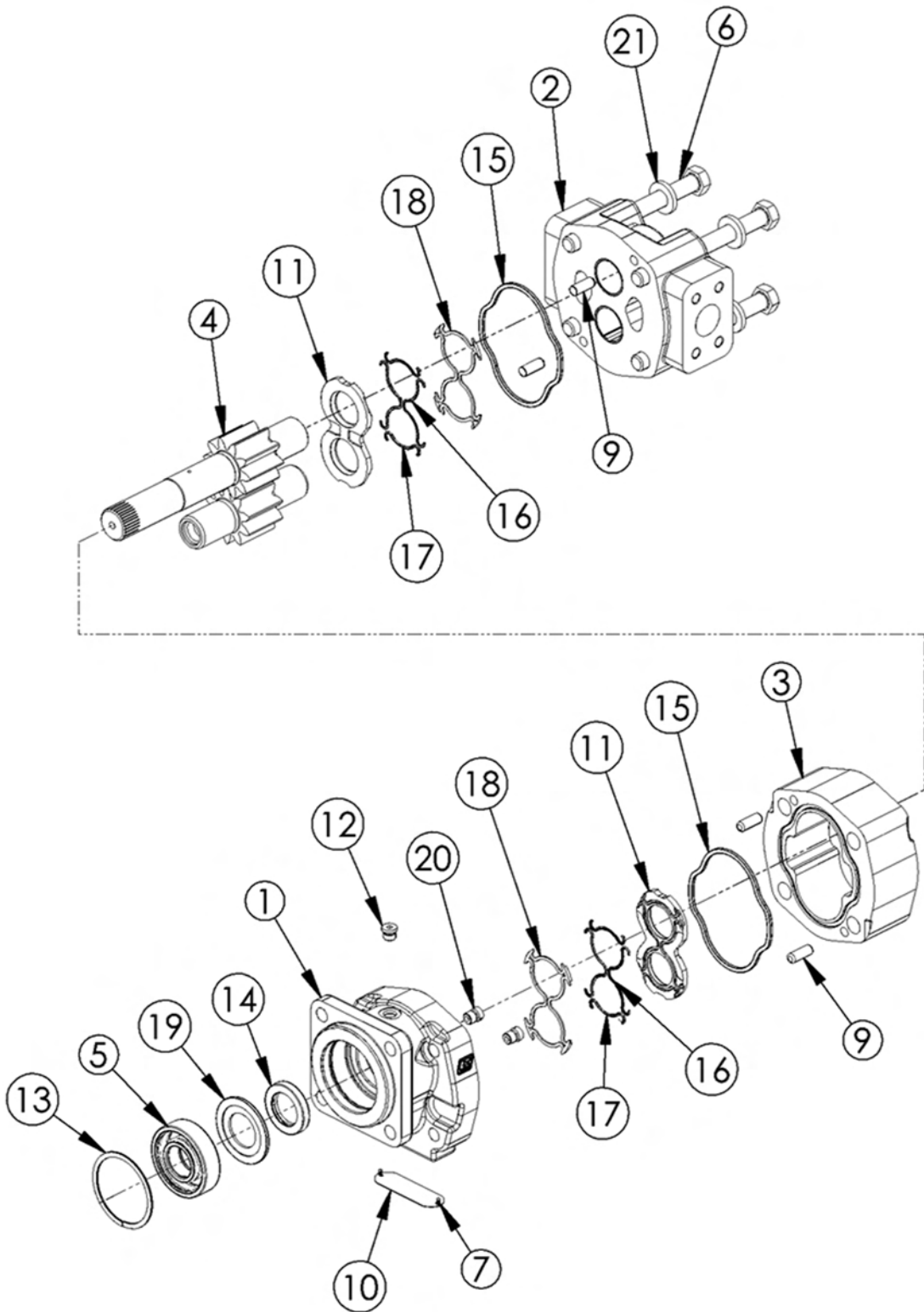
## SUPER DUTY SIDE FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                          |
|------|----------|------|--------------------------------------|
| 1    | -----    | -    | BONNET *REFER TO HEAD PARTS          |
| 2    | 32287    | 1    | MOTOR CHANNEL (RIGHT FLAIL)          |
| ---  | 32286    | 1    | MOTOR CHANNEL (LEFT FLAIL)           |
| 3    | 21700    | 2    | HEX NUT, 1/2", NF                    |
| 4    | TF3620A  | 1    | SPRING,TENSIONER                     |
| 5    | 27938    | 1    | BUSHING,MACH,1ODX1/2IDX14GA.         |
| 6    | 40496    | 1    | ROD,THREADED,1/2NFX8                 |
| 7    | PT3611A  | 1    | CLEVIS,6"                            |
| 8    | 06504065 | 1    | MOTOR, M350-1 GEAR                   |
| 9    | TF3041   | 1    | SHEAVE,6.7                           |
| 10   | TF3013   | 1    | BUSHING,QD,SK 1-1/4,1/4 KEY          |
| 11   | TF3040   | 1    | SHEAVE,6.3                           |
| 12   | 32252    | 2    | V-BELT,(470)                         |
| 13   | 28723    | 1    | BUSHING,QD,SK 1-15/16                |
| 14   | 32569    | 1    | GUARD,BELT                           |
| 15   | 21584    | 6    | CAPSCREW, 5/16 X 2,NC                |
| 16   | 21987    | 6    | LOCKWASHER, 5/16"                    |
| 17   | 06504028 | 1    | KEY (KEY FROM MOTOR)                 |
| 18   | 26142A   | 1    | KEY,1/2 X 1/2 X 2                    |
| 19   | 21732    | 5    | CAPSCREW, 1/2 X 1 3/4,NC             |
| 20   | 21990    | 5    | LOCKWASHER, 1/2"                     |
| 21   | 21725    | 5    | HEX NUT,1/2 NC                       |
| 22   | 21630    | 3    | CAPSCREW, 3/8 X 1,NC                 |
| 23   | 22016    | 2    | FLATWASHER,3/8"                      |
| 24   | 21988    | 4    | LOCKWASHER, 3/8"                     |
| 25   | 27580    | 2    | BEARING,DX,1-1/2",GRM                |
| 26   | 28682    | 1    | RETAINING,WASHER 2-1/2 X 5/16        |
| 27   | TB3031   | 1    | CLAMP,TUBE                           |
| 28   | 21638    | 1    | CAPSCREW,3/8" X 3",NC                |
| 29   | 22016    | 1    | FLATWASHER,3/8",GR8                  |
| 30   | 21625    | 1    | HEX NUT,3/8",NC                      |
| 31   | 34117    | 2    | ELBOW,1MOR X 1MJIC                   |
| 32   | -----    | -    | HOSE (RETURN FOR STANDARD ROTATION)  |
| 33   | -----    | -    | HOSE (PRESSURE OF STANDARD ROTATION) |

COMMON TRIPLE

# SUPER DUTY SIDE FLAIL MOTOR BREAKDOWN



COMMON TRIPLE



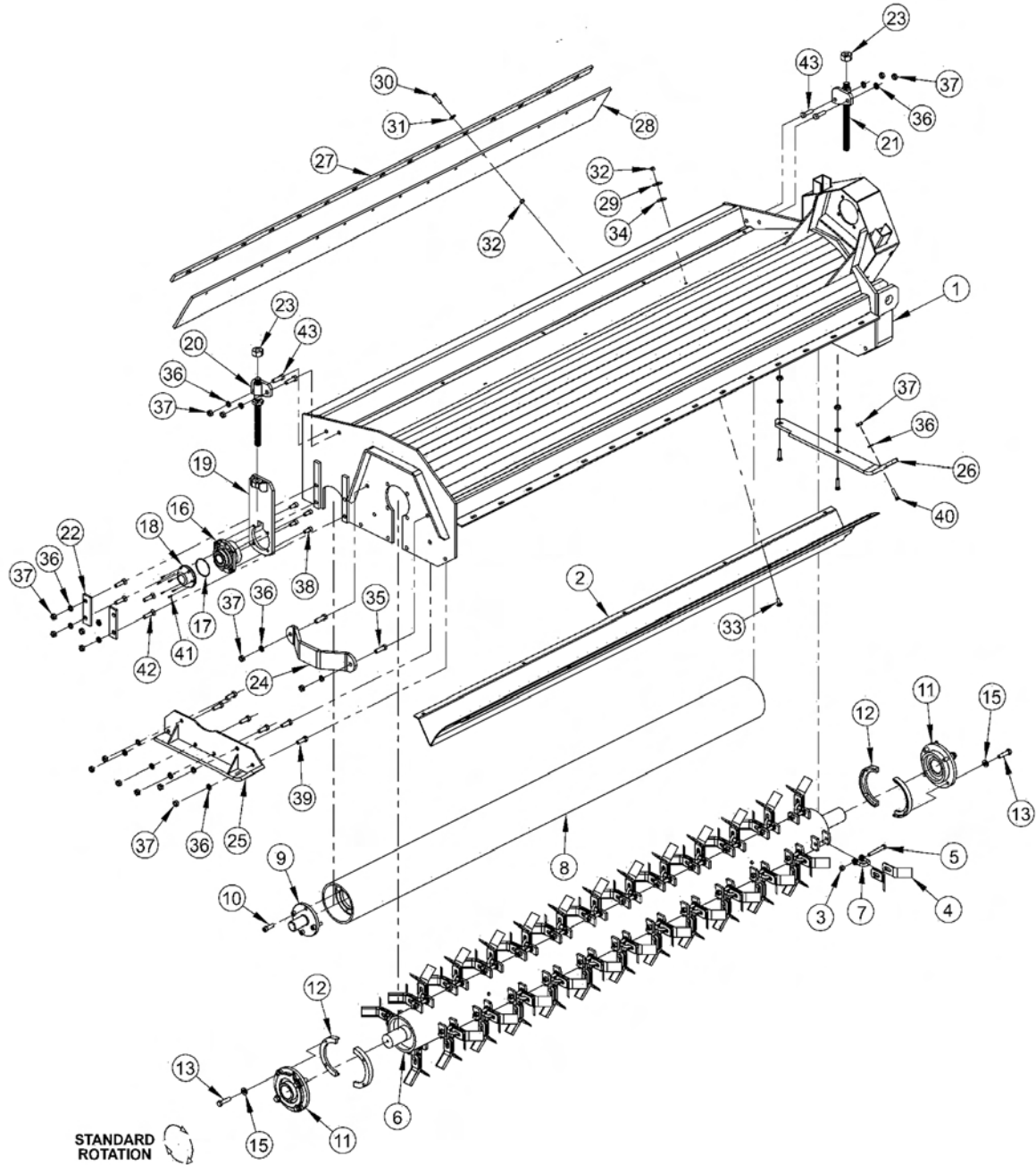
## SUPER DUTY SIDE FLAIL MOTOR BREAKDOWN

Continued...

| ITEM | PART NO.  | QTY. | DESCRIPTION                                |
|------|-----------|------|--|
| ---  | 06504065  | -    | MOTOR ASSEMBLY 350 - TSF                   |
| 1    | 06504039  | 1    | SHAFT END COVER                            |
| 2    | 06504060  | 1    | PORT END COVER                             |
| 3    | 06504055  | 1    | GEAR HOUSING                               |
| 4    | 06504056  | 1    | MATCHED GEAR SET                           |
| 5    | TF4402    | 1    | BALL BEARING                               |
| 6    | 06504057  | 4    | CAP SCREW                                  |
| 7    | 06504044  | 2    | SET SCREW                                  |
| 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   | 029661932 | 1    | SEAL RETAINER                              |
| 20   | 6T5809    | 2    | CHECK ASSEMBLY                             |
| 21   | 02961917  | 4    | WASHER                                     |
| ---  | 06504023  | -    | SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18) |

COMMON TRIPLE

# EXTREME DUTY 60IN SIDE FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 33913    | 1    | BONNET,60,HD,T3F (RIGHT FLAIL)                      |
| ---  | 06320015 | 1    | BONNET,60,HD,T3F (LEFT FLAIL)                       |
| 2    | TF1802A  | 1    | BAFFLE,FLAIL,60HD,STD ROT                           |
| ---  | TF1807A  | -    | CUTSHFT ASSY,60HD,STD KNIVES (ITEMS 3, 4, 5, 6 & 7) |
| 3    | 21677    | 32   | NYLOCK NUT,7/16 NC                                  |
| 4    | 33714    | 64   | KNIFE,FLAIL,STANDARD                                |

COMMON TRIPLE

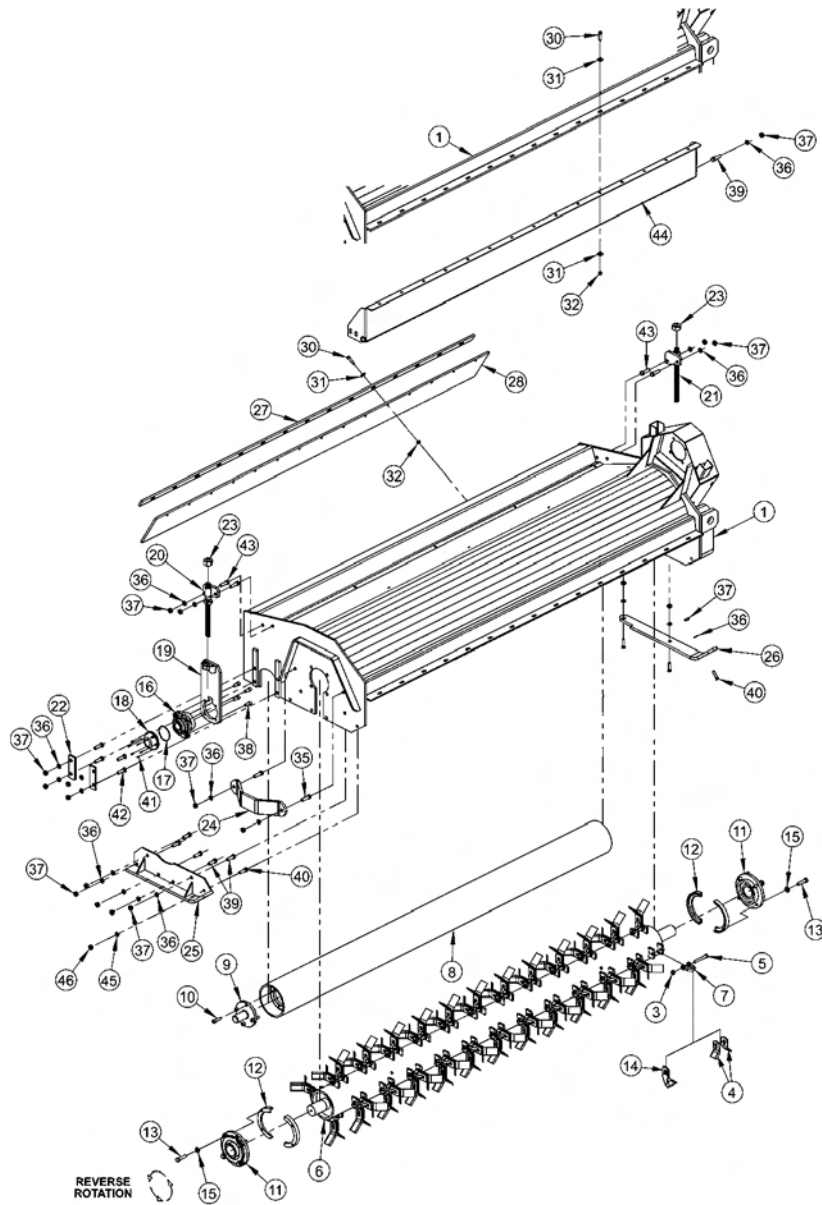
## EXTREME DUTY 60IN SIDE FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 5    | 34011    | 32   | CAPSCREW,7/16X3 7/16,NC GR8         |
| 6    | TF1807   | 1    | CUTTERSHAFT,60,HD                   |
| 7    | TF1020   | 32   | KNIFE MTG CLEVIS,FLAIL              |
| 8    | 30277    | 1    | GROUND ROLLER,60                    |
| 9    | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER            |
| 10   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11   | TF1018   | 2    | BEARING,FLANGE,2-3/16               |
| ---  | 06200347 | -    | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12   | 31204    | 2    | STRING GUARD, HD                    |
| 13   | 06530217 | 8    | CAPSCREW,1/2 X 2,NC,L9              |
| 15   | 06533006 | 8    | FLATWASHER,1/2,SAE,L9               |
| 16   | 06520028 | 2    | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17   | 06520029 | 2    | O-RING,2 3/4X3/32,AS568A-148        |
| 18   | 06520027 | 2    | CAP,BEARING,GRNDRLR                 |
| 19   | TF4333A  | 2    | GROUND ROLLER ADJ,BRKT              |
| 20   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT            |
| 21   | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF            |
| 22   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK            |
| 23   | 21399    | 2    | HEX NUT,3/4 (ACME) BULK             |
| 24   | TF1040   | 1    | GUARD,CUTTER SHAFT                  |
| 25   | TF4371   | 1    | SKID SHOE,OUTER (RIGHT FLAIL)       |
| ---  | TF4370   | 1    | SKID SHOE,OUTER (LEFT FLAIL)        |
| 26   | 23272A   | 1    | SKID SHOE,INNER (RIGHT FLAIL)       |
| ---  | 27526    | 1    | SKID SHOE,INNER (LEFT FLAIL)        |
| 27   | TF1803   | 1    | BAR,FLAP,TSF/TRF 60                 |
| 28   | TF1804   | 1    | FLAP,DEFLECTOR,TSF/TRF 60           |
| 29   | 21988    | 10   | LOCKWASHER,3/8                      |
| 30   | 21632    | 10   | CAPSCREW,3/8 X 1-1/2 NC             |
| 31   | 22016    | 10   | FLATWASHER,3/8                      |
| 32   | 21625    | 18   | HEX NUT,3/8 NC                      |
| 33   | 6T2283   | 8    | CARRIAGE BOLT,3/8 X 1 NC            |
| 34   | 6T2615   | 8    | WASHER,FENDER 3/8                   |
| 35   | 21732    | 2    | CAPSCREW,1/2 X 1-3/4 NC             |
| 36   | 21990    | 23   | LOCKWASHER,1/2                      |
| 37   | 21725    | 23   | HEX NUT,1/2 NC                      |
| 38   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16 X 1 NC         |
| 39   | 21730    | 6    | CAPSCREW,1/2 X 1-1/4 NC             |
| 40   | 23293    | 3    | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41   | 06530001 | 12   | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42   | 6T2291   | 8    | PLOW BOLT,1/2 X 2 NC GR5            |
| 43   | 21731    | 4    | CAPSCREW,1/2 X 1-1/2 NC             |

COMMON TRIPLE

# EXTREME DUTY 60IN SIDE FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 33913    | 1    | BONNET,60,HD,T3F (RIGHT FLAIL)                          |
| ---  | 06320015 | 1    | BONNET,60,HD,T3F (LEFT FLAIL)                           |
| 2    | TF1807A  | -    | CUTSHFT ASSY,60HD (STANDARD CUT) (ITEMS 3, 4, 5, 6 & 7) |
| ---  | TF1807B  | -    | CUTSHFT ASSY,60HD (SMOOTH CUT) (ITEMS 3, 5, 6, 7 & 14)  |
| 3    | 21677    | 32   | NYLOCK NUT,7/16 NC                                      |
| 4    | 33714    | 64   | KNIFE,FLAIL (STANDARD CUT)                              |
| 5    | 34011    | 32   | CAPSCREW,7/16X3 7/16,NC GR8                             |
| 6    | TF1807   | 1    | CUTTERSHAFT,60,HD                                       |
| 7    | TF1020   | 32   | KNIFE MTG CLEVIS,FLAIL                                  |
| 8    | 30277    | 1    | GROUND ROLLER,60  |

COMMON TRIPLE

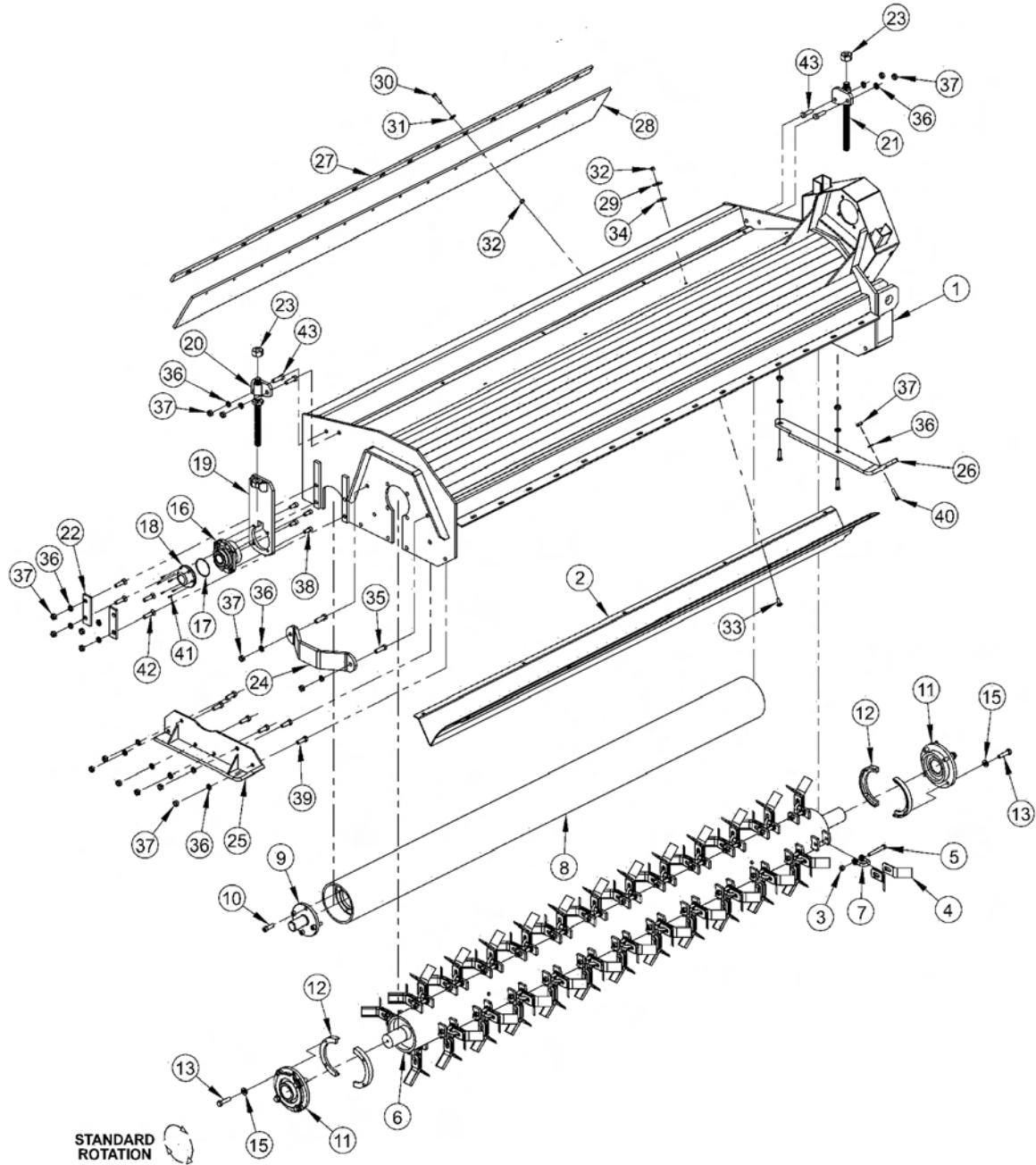
**EXTREME DUTY 60IN SIDE FLAIL - REV ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>                  |
|-------------|-----------------|-------------|-------------------------------------|
| 9           | TF1045B         | 2           | STUB SHAFT,GROUND ROLLER            |
| 10          | 6T2330          | 8           | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11          | TF1018          | 2           | BEARING,FLANGE,2-3/16               |
| ---         | 06200347        | -           | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12          | 31204           | 2           | STRING GUARD, HD                    |
| 13          | 06530217        | 8           | CAPSCREW,1/2 X 2,NC,L9              |
| 14          | TF1019F         | 32          | KNIFE,FLAIL (SMOOTH CUT)            |
| 15          | 06533006        | 12          | FLATWASHER,1/2,SAE,L9               |
| 16          | 06520028        | 2           | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17          | 06520029        | 2           | O-RING,2 3/4X3/32,AS568A-148        |
| 18          | 06520027        | 2           | CAP,BEARING,GRNDRLR                 |
| 19          | TF4333A         | 2           | GROUND ROLLER ADJ,BRKT              |
| 20          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT            |
| 21          | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF            |
| 22          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK            |
| 23          | 21399           | 2           | HEX NUT,3/4 (ACME) BULK             |
| 24          | TF1040          | 1           | GUARD,CUTTER SHAFT                  |
| 25          | TF4371          | 1           | SKID SHOE, OUTER (RIGHT FLAIL)      |
| ---         | TF4370          | 1           | SKID SHOE, OUTER (LEFT FLAIL)       |
| 26          | 23272A          | 1           | SKID SHOE, INNER (RIGHT FLAIL)      |
| ---         | 27526           | 1           | SKID SHOE, INNER (LEFT FLAIL)       |
| 27          | TF1803          | 1           | BAR,FLAP,TSF/TRF 60                 |
| 28          | TF1804          | 1           | FLAP,DEFLECTOR,TSF/TRF 60           |
| 30          | 21632           | 20          | CAPSCREW,3/8 X 1-1/2 NC             |
| 31          | 22016           | 30          | FLATWASHER,3/8                      |
| 32          | 21625           | 20          | HEX NUT,3/8 NC                      |
| 35          | 21732           | 2           | CAPSCREW,1/2 X 1-3/4 NC             |
| 36          | 21990           | 23          | LOCKWASHER,1/2                      |
| 37          | 21725           | 23          | HEX NUT,1/2 NC                      |
| 38          | 6T2331          | 8           | CAPSCREW,SKT HD,7/16 X 1 NC         |
| 39          | 21730           | 6           | CAPSCREW,1/2 X 1-1/4 NC             |
| 40          | 23293           | 3           | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41          | 06530001        | 12          | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42          | 6T2291          | 8           | PLOW BOLT,1/2 X 2 NC GR5            |
| 43          | 21731           | 4           | CAPSCREW,1/2 X 1-1/2 NC             |
| 44          | TF1801          | 1           | TRASH GUARD,60REV ROT-HD            |
| 45          | 22018           | 1           | FLATWASHER,1/2,WIDE                 |
| 46          | 21727           | 1           | NYLOCK NUT,1/2 NC                   |

COMMON TRIPLE

# EXTREME DUTY 75IN SIDE FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 21499A   | 1    | BONNET,75,HD,T3F (RIGHT FLAIL)                      |
| ---  | 21478A   | 1    | BONNET,75,HD,T3F (LEFT FLAIL)                       |
| 2    | TF1402A  | 1    | BAFFLE,FLAIL,75HD,STD ROT                           |
| ---  | TF1002A  | -    | CUTSHFT ASSY,75HD,STD KNIVES (ITEMS 3, 4, 5, 6 & 7) |
| 3    | 21677    | 40   | NYLOCK NUT,7/16 NC                                  |
| 4    | 33714    | 80   | KNIFE,FLAIL,STANDARD                                |

COMMON TRIPLE

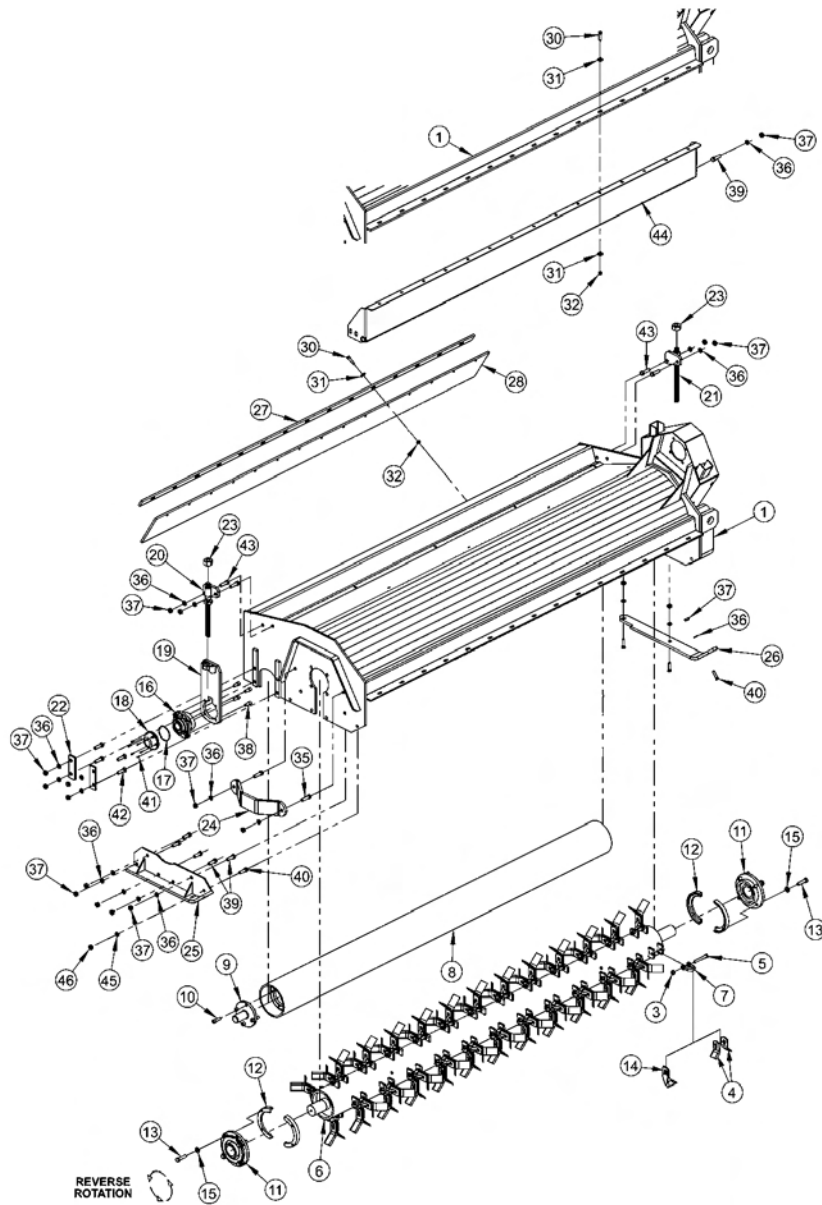
**EXTREME DUTY 75IN SIDE FLAIL - STD ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>                  |
|-------------|-----------------|-------------|-------------------------------------|
| 5           | 34011           | 40          | CAPSCREW,7/16X3 7/16,NC GR8         |
| 6           | TF1002          | 1           | CUTTERSHAFT,75,HD                   |
| 7           | TF1020          | 40          | KNIFE MTG CLEVIS,FLAIL              |
| 8           | 28738           | 1           | GROUND ROLLER,75                    |
| 9           | TF1045B         | 2           | STUB SHAFT,GROUND ROLLER            |
| 10          | 6T2330          | 8           | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11          | TF1018          | 2           | BEARING,FLANGE,2-3/16               |
| ---         | 06200347        | -           | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12          | 31204           | 2           | STRING GUARD, HD                    |
| 13          | 06530217        | 8           | CAPSCREW,1/2 X 2,NC,L9              |
| 15          | 06533006        | 8           | FLATWASHER,1/2,SAE,L9               |
| 16          | 06520028        | 2           | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17          | 06520029        | 2           | O-RING,2 3/4X3/32,AS568A-148        |
| 18          | 06520027        | 2           | CAP,BEARING,GRNDRLR                 |
| 19          | TF4333A         | 2           | GROUND ROLLER ADJ,BRKT              |
| 20          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT            |
| 21          | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF            |
| 22          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK            |
| 23          | 21399           | 2           | HEX NUT,3/4 (ACME) BULK             |
| 24          | TF1040          | 1           | GUARD,CUTTER SHAFT                  |
| 25          | TF4371          | 1           | SKID SHOE,OUTER (RIGHT FLAIL)       |
| ---         | TF4370          | 1           | SKID SHOE,OUTER (LEFT FLAIL)        |
| 26          | 23272A          | 1           | SKID SHOE,INNER (RIGHT FLAIL)       |
| ---         | 27526           | 1           | SKID SHOE,INNER (LEFT FLAIL)        |
| 27          | TF1029          | 1           | BAR,FLAP,TSF/TRF 75                 |
| 28          | TF1016          | 1           | FLAP,DEFLECTOR,TSF/TRF 75           |
| 29          | 21988           | 10          | LOCKWASHER,3/8                      |
| 30          | 21632           | 13          | CAPSCREW,3/8 X 1-1/2 NC             |
| 31          | 22016           | 13          | FLATWASHER,3/8                      |
| 32          | 21625           | 23          | HEX NUT,3/8 NC                      |
| 33          | 6T2283          | 10          | CARRIAGE BOLT,3/8 X 1 NC            |
| 34          | 6T2615          | 10          | WASHER,FENDER 3/8                   |
| 35          | 21732           | 2           | CAPSCREW,1/2 X 1-3/4 NC             |
| 36          | 21990           | 23          | LOCKWASHER,1/2                      |
| 37          | 21725           | 23          | HEX NUT,1/2 NC                      |
| 38          | 6T2331          | 8           | CAPSCREW,SKT HD,7/16 X 1 NC         |
| 39          | 21730           | 6           | CAPSCREW,1/2 X 1-1/4 NC             |
| 40          | 23293           | 3           | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41          | 06530001        | 12          | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42          | 6T2291          | 8           | PLOW BOLT,1/2 X 2 NC GR5            |
| 43          | 21731           | 4           | CAPSCREW,1/2 X 1-1/2 NC             |

COMMON TRIPLE

# EXTREME DUTY 75IN SIDE FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 21499A   | 1    | BONNET,75,HD,T3F (RIGHT FLAIL)                          |
| ---  | 21478A   | 1    | BONNET,75,HD,T3F (LEFT FLAIL)                           |
| 2    | TF1002A  | -    | CUTSHFT ASSY,75HD (STANDARD CUT) (ITEMS 3, 4, 5, 6 & 7) |
| ---  | TF1002B  | -    | CUTSHFT ASSY,75HD (SMOOTH CUT) (ITEMS 3, 5, 6, 7 & 14)  |
| 3    | 21677    | 40   | NYLOCK NUT,7/16 NC                                      |
| 4    | 33714    | 80   | KNIFE,FLAIL (STANDARD CUT)                              |
| 5    | 34011    | 40   | CAPSCREW,7/16X3 7/16,NC GR8                             |
| 6    | TF1002   | 1    | CUTTERSHAFT,75,HD                                       |
| 7    | TF1020   | 40   | KNIFE MTG CLEVIS,FLAIL                                  |
| 8    | 28738    | 1    | GROUND ROLLER,75  |

COMMON TRIPLE



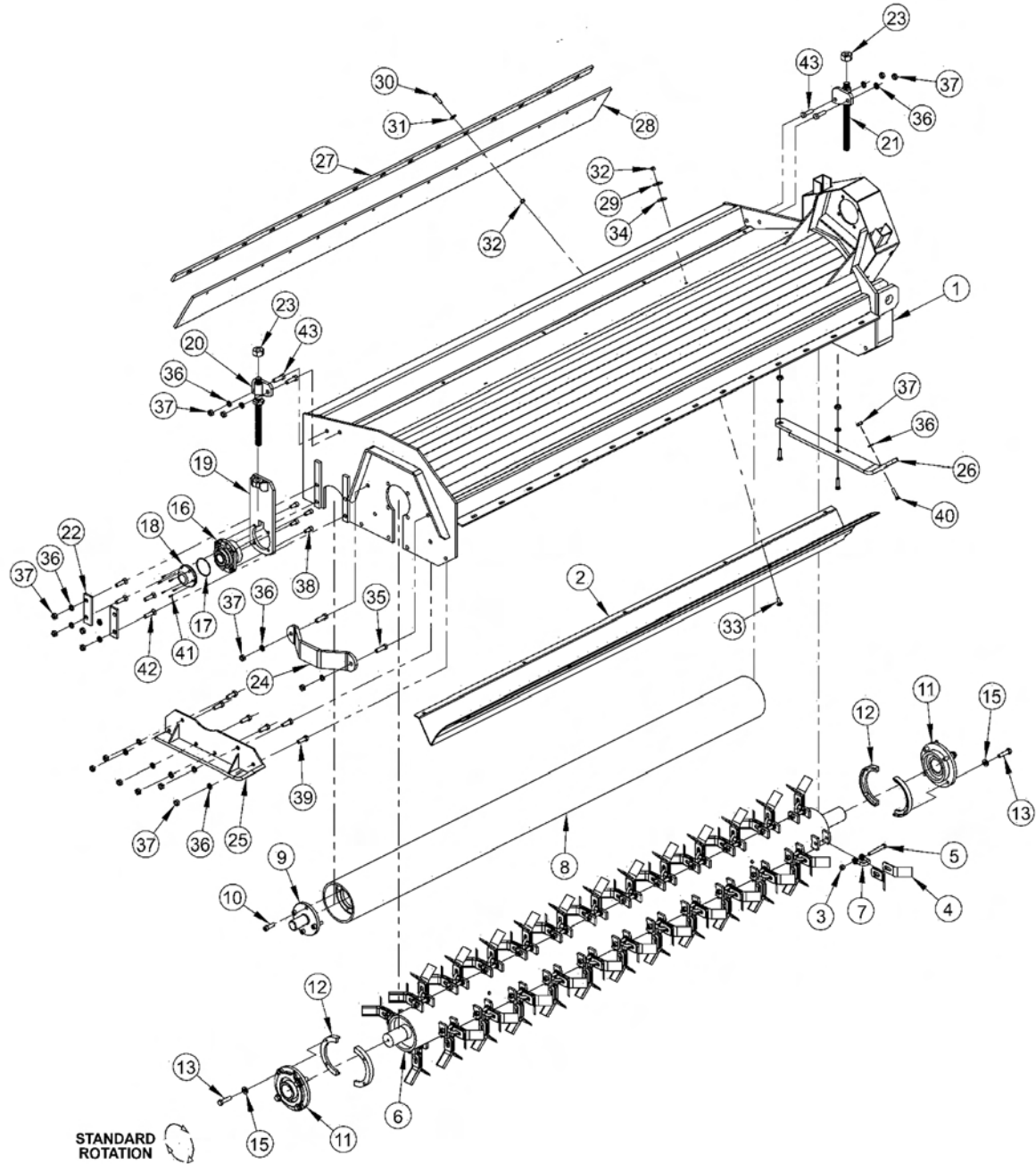
## EXTREME DUTY 75IN SIDE FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 9    | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER            |
| 10   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11   | TF1018   | 2    | BEARING,FLANGE,2-3/16               |
| ---  | 06200347 | -    | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12   | 31204    | 2    | STRING GUARD, HD                    |
| 13   | 06530217 | 8    | CAPSCREW,1/2 X 2,NC,L9              |
| 14   | TF1019F  | 40   | KNIFE,FLAIL (SMOOTH CUT)            |
| 15   | 06533006 | 8    | FLATWASHER,1/2,SAE,L9               |
| 16   | 06520028 | 2    | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17   | 06520029 | 2    | O-RING,2 3/4X3/32,AS568A-148        |
| 18   | 06520027 | 2    | CAP,BEARING,GRNDRLR                 |
| 19   | TF4333A  | 2    | GROUND ROLLER ADJ,BRKT              |
| 20   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT            |
| 21   | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF            |
| 22   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK            |
| 23   | 21399    | 2    | HEX NUT,3/4 (ACME) BULK             |
| 24   | TF1040   | 1    | GUARD,CUTTER SHAFT                  |
| 25   | TF4371   | 1    | SKID SHOE, OUTER (RIGHT FLAIL)      |
| ---  | TF4370   | 1    | SKID SHOE, OUTER (LEFT FLAIL)       |
| 26   | 23272A   | 1    | SKID SHOE, INNER (RIGHT FLAIL)      |
| ---  | 27526    | 1    | SKID SHOE, INNER (LEFT FLAIL)       |
| 27   | TF1029   | 1    | BAR,FLAP,TSF/TRF 75                 |
| 28   | TF1016   | 1    | FLAP,DEFLECTOR,TSF/TRF 75           |
| 30   | 21632    | 26   | CAPSCREW,3/8 X 1-1/2 NC             |
| 31   | 22016    | 39   | FLATWASHER,3/8                      |
| 32   | 21625    | 26   | HEX NUT,3/8 NC                      |
| 35   | 21732    | 2    | CAPSCREW,1/2 X 1-3/4 NC             |
| 36   | 21990    | 23   | LOCKWASHER,1/2                      |
| 37   | 21725    | 23   | HEX NUT,1/2 NC                      |
| 39   | 21730    | 6    | CAPSCREW,1/2 X 1-1/4 NC             |
| 40   | 23293    | 3    | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41   | 06530001 | 12   | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42   | 6T2291   | 8    | PLOW BOLT,1/2 X 2 NC GR5            |
| 43   | 21731    | 4    | CAPSCREW,1/2 X 1-1/2 NC             |
| 44   | TF1403   | 1    | TRASH GUARD,75REV ROT-HD            |
| 45   | 22018    | 1    | FLATWASHER,1/2,WIDE                 |
| 46   | 21727    | 1    | NYLOCK NUT,1/2 NC                   |

COMMON TRIPLE

## EXTREME DUTY 90IN SIDE FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 22083A   | 1    | BONNET,90,HD,T3F (RIGHT FLAIL)                      |
| ---  | 22084A   | 1    | BONNET,90,HD,T3F (LEFT FLAIL)                       |
| 2    | TF1502A  | 1    | BAFFLE,FLAIL,90HD,STD ROT                           |
| ---  | TF1102A  | -    | CUTSHFT ASSY,90HD,STD KNIVES (ITEMS 3, 4, 5, 6 & 7) |
| 3    | 21677    | 48   | NYLOCK NUT,7/16 NC                                  |
| 4    | 33714    | 96   | KNIFE,FLAIL,STANDARD                                |

COMMON TRIPLE

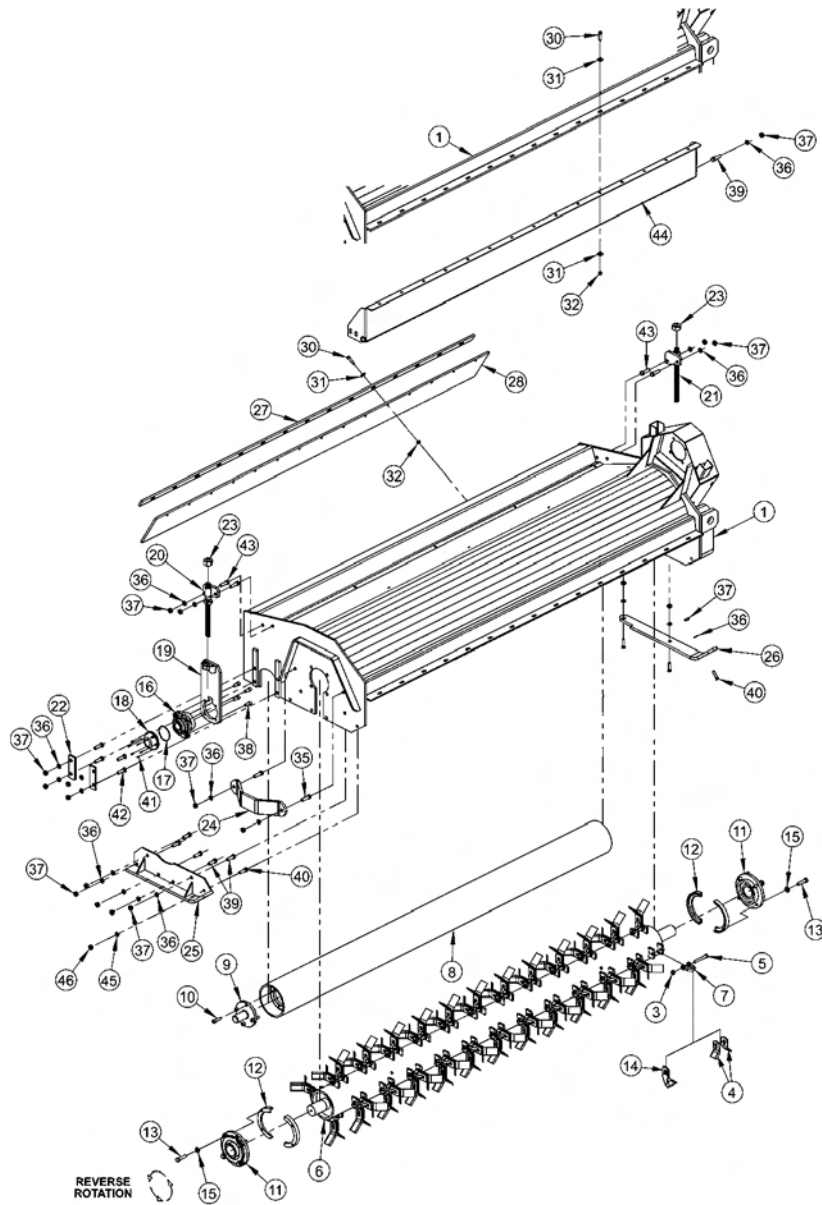
## EXTREME DUTY 90IN SIDE FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 5    | 34011    | 48   | CAPSCREW,7/16X3 7/16,NC GR8         |
| 6    | TF1102   | 1    | CUTTERSHAFT,90,HD                   |
| 7    | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL              |
| 8    | 27972A   | 1    | GROUND ROLLER,90                    |
| 9    | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER            |
| 10   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11   | TF1018   | 2    | BEARING,FLANGE,2-3/16               |
| ---  | 06200347 | -    | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12   | 31204    | 2    | STRING GUARD, HD                    |
| 13   | 06530217 | 8    | CAPSCREW,1/2 X 2,NC,L9              |
| 15   | 06533006 | 8    | FLATWASHER,1/2,SAE,L9               |
| 16   | 06520028 | 2    | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17   | 06520029 | 2    | O-RING,2 3/4X3/32,AS568A-148        |
| 18   | 06520027 | 2    | CAP,BEARING,GRNDRLR                 |
| 19   | TF4333A  | 2    | GROUND ROLLER ADJ,BRKT              |
| 20   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT            |
| 21   | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF            |
| 22   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK            |
| 23   | 21399    | 2    | HEX NUT,3/4 (ACME) BULK             |
| 24   | TF1040   | 1    | GUARD,CUTTER SHAFT                  |
| 25   | TF4371   | 1    | SKID SHOE, OUTER (RIGHT FLAIL)      |
| ---  | TF4370   | 1    | SKID SHOE, OUTER (LEFT FLAIL)       |
| 26   | 23272A   | 1    | SKID SHOE, INNER (RIGHT FLAIL)      |
| ---  | 27526    | 1    | SKID SHOE, INNER (LEFT FLAIL)       |
| 27   | TF1135   | 1    | BAR,FLAP,TSF/TRF 90                 |
| 28   | TF1116   | 1    | FLAP,DEFLECTOR,TSF/TRF 90           |
| 29   | 21988    | 10   | LOCKWASHER,3/8                      |
| 30   | 21632    | 15   | CAPSCREW,3/8 X 1-1/2 NC             |
| 31   | 22016    | 15   | FLATWASHER,3/8                      |
| 32   | 21625    | 25   | HEX NUT,3/8 NC                      |
| 33   | 6T2283   | 10   | CARRIAGE BOLT,3/8 X 1 NC            |
| 34   | 6T2615   | 10   | WASHER,FENDER 3/8                   |
| 35   | 21732    | 2    | CAPSCREW,1/2 X 1-3/4 NC             |
| 36   | 21990    | 23   | LOCKWASHER,1/2                      |
| 37   | 21725    | 23   | HEX NUT,1/2 NC                      |
| 38   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16 X 1 NC         |
| 39   | 21730    | 6    | CAPSCREW,1/2 X 1-1/4 NC             |
| 40   | 23293    | 3    | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41   | 06530001 | 12   | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42   | 6T2291   | 8    | PLOW BOLT,1/2 X 2 NC GR5            |
| 43   | 21731    | 4    | CAPSCREW,1/2 X 1-1/2 NC             |

COMMON TRIPLE

# EXTREME DUTY 90IN SIDE FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 1    | 22083A   | 1    | BONNET,90,HD,ASSY (RIGHT FLAIL)                         |
| ---  | 22084A   | 1    | BONNET,90,HD,ASSY (LEFT FLAIL)                          |
| 2    | TF1102A  | -    | CUTSHFT ASSY,90HD (STANDARD CUT) (ITEMS 3, 4, 5, 6 & 7) |
| ---  | TF1102B  | -    | CUTSHFT ASSY,90HD (SMOOTH CUT) (ITEMS 3, 5, 6, 7 & 14)  |
| 3    | 21677    | 48   | NYLOCK NUT,7/16 NC                                      |
| 4    | 33714    | 96   | KNIFE,FLAIL (STANDARD CUT)                              |
| 5    | 34011    | 48   | CAPSCREW,7/16X3 7/16,NC GR8                             |
| 6    | TF1102   | 1    | CUTTERSHAFT,90,HD                                       |
| 7    | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL                                  |
| 8    | 27972A   | 1    | GROUND ROLLER,90  |

COMMON TRIPLE

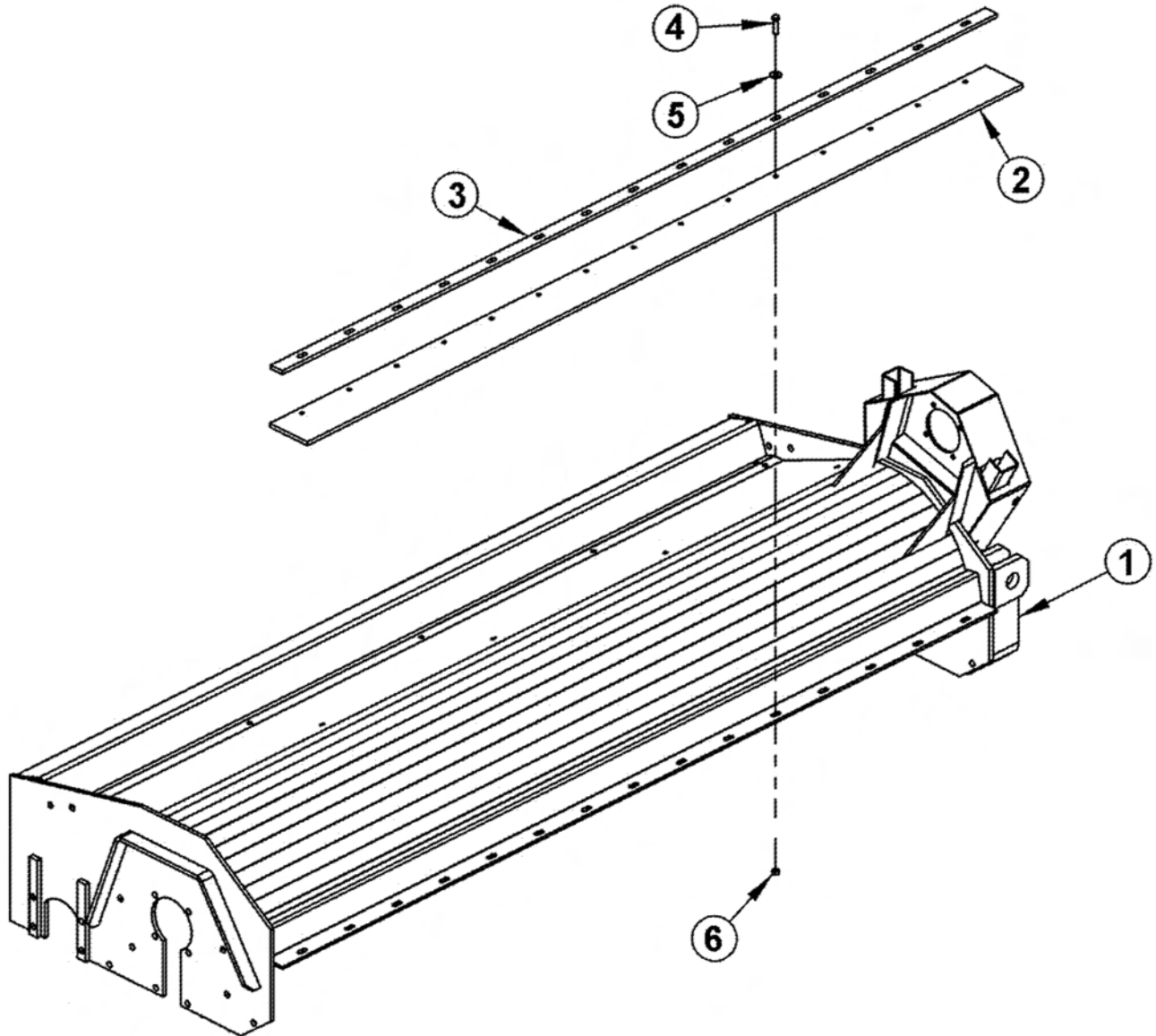
## EXTREME DUTY 90IN SIDE FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| 9    | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER            |
| 10   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16X1-1/2NC        |
| 11   | TF1018   | 2    | BEARING,FLANGE,2-3/16               |
| ---  | 06200347 | -    | STRING GUARD,KIT,HD(ITEMS 12,13,15) |
| 12   | 31204    | 2    | STRING GUARD, HD                    |
| 13   | 06530217 | 8    | CAPSCREW,1/2 X 2,NC,L9              |
| 14   | TF1019F  | 48   | KNIFE,FLAIL (SMOOTH CUT)            |
| 15   | 06533006 | 8    | FLATWASHER,1/2,SAE,L9               |
| 16   | 06520028 | 2    | BEARING,FLANGE,1 3/8,GRNDRLR        |
| 17   | 06520029 | 2    | O-RING,2 3/4X3/32,AS568A-148        |
| 18   | 06520027 | 2    | CAP,BEARING,GRNDRLR                 |
| 19   | TF4333A  | 2    | GROUND ROLLER ADJ,BRKT              |
| 20   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT            |
| 21   | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF            |
| 22   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK            |
| 23   | 21399    | 2    | HEX NUT,3/4 (ACME) BULK             |
| 24   | TF1040   | 1    | GUARD,CUTTER SHAFT                  |
| 25   | TF4371   | 1    | SKID SHOE, OUTER (RIGHT FLAIL)      |
| ---  | TF4370   | 1    | SKID SHOE, OUTER (LEFT FLAIL)       |
| 26   | 23272A   | 1    | SKID SHOE, INNER (RIGHT FLAIL)      |
| ---  | 27526    | 1    | SKID SHOE, INNER (LEFT FLAIL)       |
| 27   | TF1135   | 1    | BAR,FLAP,TSF/TRF 90                 |
| 28   | TF1116   | 1    | FLAP,DEFLECTOR,TSF/TRF 90           |
| 30   | 21632    | 30   | CAPSCREW,3/8 X 1-1/2 NC             |
| 31   | 22016    | 45   | FLATWASHER,3/8                      |
| 32   | 21625    | 30   | HEX NUT,3/8 NC                      |
| 35   | 21732    | 2    | CAPSCREW,1/2 X 1-3/4 NC             |
| 36   | 21990    | 23   | LOCKWASHER,1/2                      |
| 37   | 21725    | 23   | HEX NUT,1/2 NC                      |
| 38   | 6T2331   | 8    | CAPSCREW,SKT HD,7/16 X 1 NC         |
| 39   | 21730    | 6    | CAPSCREW,1/2 X 1-1/4 NC             |
| 40   | 23293    | 3    | PLOW,BOLT,1/2 X 1-3/4 NC            |
| 41   | 06530001 | 12   | CAPSCREW,SKT HD,8-32X1/2,SS         |
| 42   | 6T2291   | 8    | PLOW BOLT,1/2 X 2 NC GR5            |
| 43   | 21731    | 4    | CAPSCREW,1/2 X 1-1/2 NC             |
| 44   | TF1503   | 1    | TRASH GUARD,90REV ROT-HD            |
| 45   | 22018    | 1    | FLATWASHER,1/2,WIDE                 |
| 46   | 21727    | 1    | NYLOCK NUT,1/2 NC                   |

COMMON TRIPLE

FRONT FLAPS, XD FLAIL - STANDARD ROTATION



COMMON TRIPLE

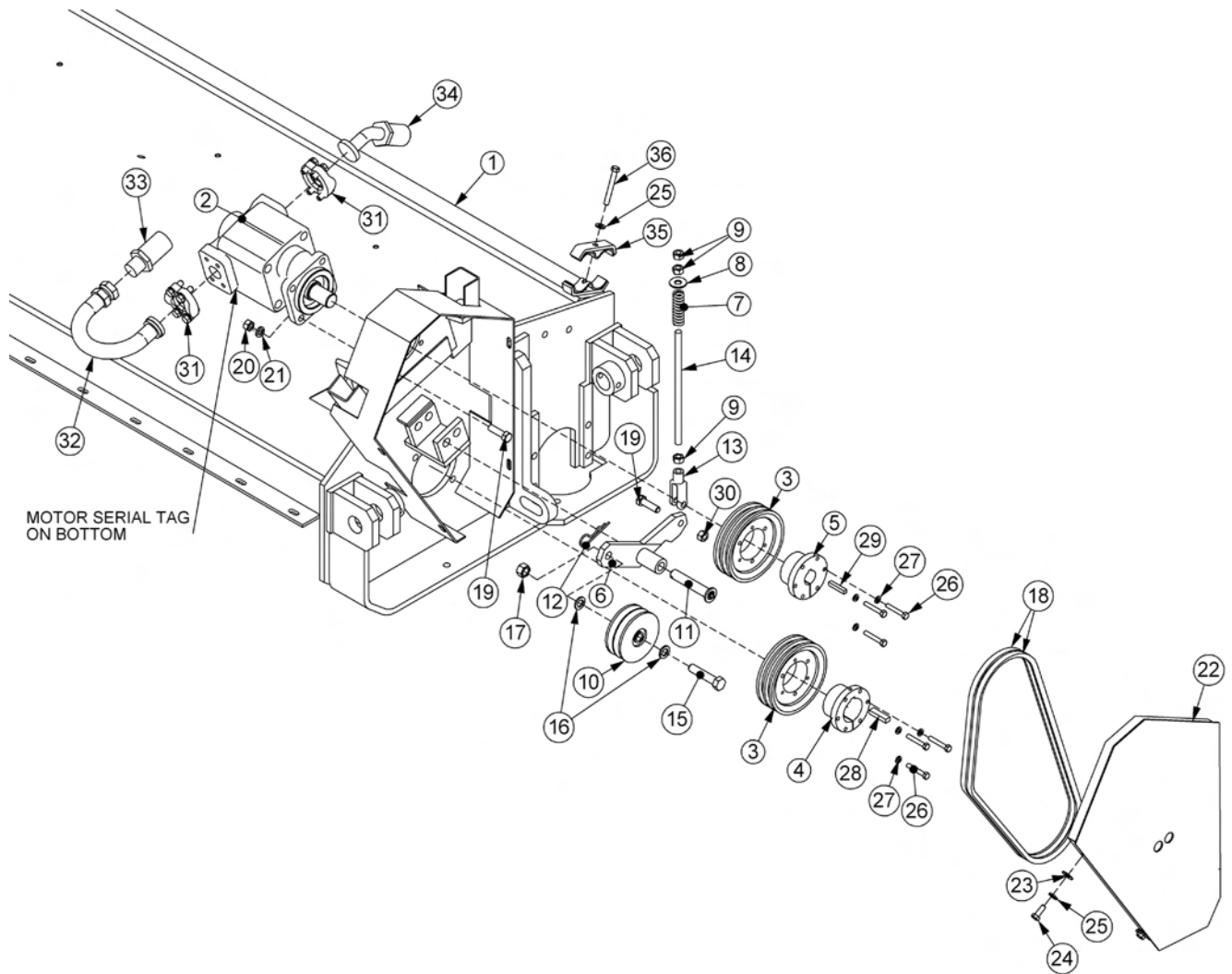
## FRONT FLAPS, XD FLAIL - STANDARD ROTATION

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                            |
|------|----------|------|--|
| 1    | -----    | -    | BONNET *REFER TO HEAD ASSEMBLY         |
| 2    | 06520240 | 1    | FLAP,FRONT,60IN                        |
| ---  | 06520242 | 1    | FLAP,FRONT,75IN                        |
| ---- | 06520243 | 1    | FLAP,FRONT,90IN                        |
| 3    | TF1803   | 1    | BAR,FLAP,60IN                          |
| ---  | TF1029   | 1    | BAR,FLAP,75IN                          |
| ---- | TF1135   | 1    | BAR,FLAP,90IN                          |
| 4    | 21632    | 10   | CAPSCREW,3/8" X 1-1/2",NC (60IN FLAIL) |
| ---  | -----    | 13   | CAPSCREW,3/8" X 1-1/2",NC (75IN FLAIL) |
|      | -----    | 15   | CAPSCREW,3/8" X 1-1/2",NC (90IN FLAIL) |
| 5    | 22016    | 20   | FLATWASHER,3/8" (60IN FLAIL)           |
| ---  | -----    | 26   | FLATWASHER,3/8" (75IN FLAIL)           |
| ---- | -----    | 30   | FLATWASHER,3/8" (90IN FLAIL)           |
| 6    | 21625    | 10   | HEX NUT,3/8",NC (60IN FLAIL)           |
| ---  | -----    | 13   | HEX NUT,3/8",NC (75IN FLAIL)           |
| ---- | -----    | 15   | HEX NUT,3/8",NC (90IN FLAIL)           |

COMMON TRIPLE

# EXTREME DUTY SIDE FLAIL DRIVE ASSY



COMMON TRIPLE



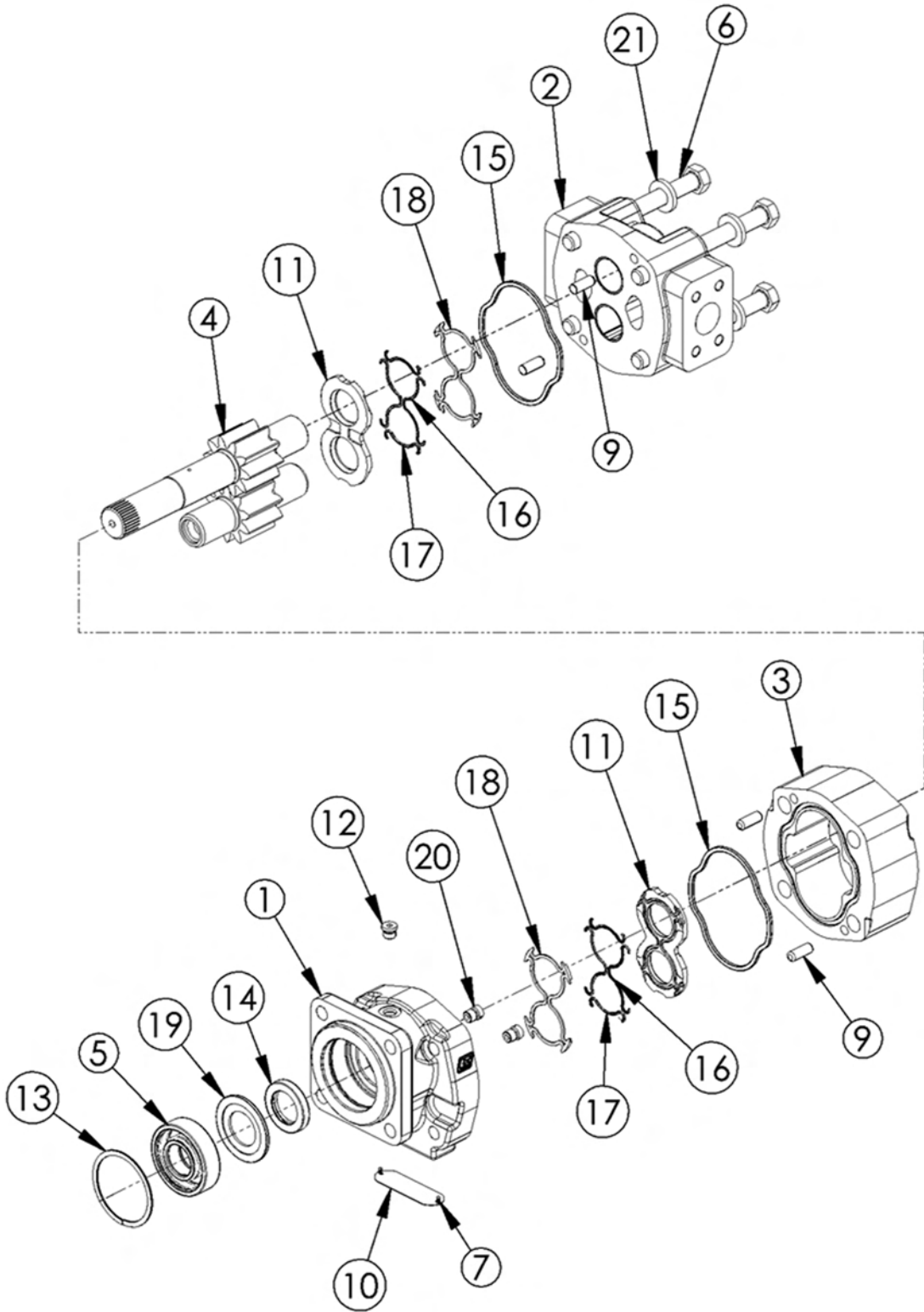
## EXTREME DUTY SIDE FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION  |
|------|----------|------|--|
| 1    | -----    | -    | BONNET *REFER TO FLAIL PARTS                             |
| 2    | 06504066 | 1    | MOTOR,T3F  |
| 3    | TF3040   | 2    | SHEAVE,6.3   |
| 4    | TF3011   | 1    | BUSHING,QD,SK,2-3/16"                                    |
| 5    | TF3013   | 1    | BUSHING,QD,SK 1-1/4"                                     |
| 6    | TF4346   | 1    | IDLER ARM (RIGHT FLAIL - STD ROT / LEFT FLAIL - REV ROT) |
| ---  | TF4345   | -    | IDLER ARM (RIGHT FLAIL - REV ROT / LEFT FLAIL - STD ROT) |
| 7    | TF3620A  | 1    | SPRING,TENSIONER   |
| 8    | 22018    | 1    | FLATWASHER,1/2",WIDE                                     |
| 9    | 21700    | 3    | HEX NUT, 1/2", NF  |
| 10   | 31293    | 1    | SHEAVE,IDLER ASSY, 4.4 O.D.                              |
| 11   | TF3605   | 1    | PIN,IDLER ARM 3/4"X4-1/4"                                |
| 12   | 6T3004   | 1    | R-CLIP (HAIRPIN COTTER, 3/16")                           |
| 13   | PT3611A  | 1    | CLEVIS,6"  |
| 14   | 32494    | 1    | ROD, THREADED, 1/2-20NF                                  |
| 15   | 21787    | 1    | CAPSCREW,5/8" X 3", NC                                   |
| 16   | 21992    | 2    | LOCKWASHER, 5/8  |
| 17   | 21775    | 1    | HEX NUT, 5/8   |
| 18   | TF3020   | 2    | V-BELT, (530)  |
| 19   | 21732    | 5    | CAPSCREW, 1/2 X 1 3/4,NC                                 |
| 20   | 21725    | 4    | HEX NUT, 1/2" NC   |
| 21   | 21990    | 4    | LOCKWASHER, 1/2"   |
| 22   | TF4564   | 1    | BELT SHEILD (RIGHT)                                      |
| ---  | TF4565   | 1    | BELT SHEILD (LEFT)                                       |
| 23   | 22016    | 4    | FLATWASHER,3/8"  |
| 24   | 21630    | 4    | CAPSCREW, 3/8 X 1,NC                                     |
| 25   | 21988    | 5    | LOCKWASHER, 3/8"   |
| 26   | 21584    | 6    | CAPSCREW, 5/16 X 2,NC                                    |
| 27   | 21987    | 6    | LOCKWASHER, 5/16"  |
| 28   | TF1025   | 1    | KEY,1/4" X 1/2" X 1-7/8" SQ                              |
| 29   | TF1125   | 1    | KEY,3/8" X 1/2" X 1-7/8" SQ                              |
| 30   | 21727    | 1    | NYLOCK NUT, 1/2  |
| 31   | TF4853   | 2    | KIT,FLANGE,#16   |
| 32   | 32920    | 1    | PREFORMED TUBE   |
| 33   | -----    | -    | HOSE (RETURN FOR STANDARD ROTATION)                      |
| 34   | -----    | -    | HOSE (PRESSURE FOR STANDARD ROTATION)                    |
| 35   | TB3031   | 1    | CLAMP,HOSE   |
| 36   | 21638    | 1    | CAPSCREW,3/8 X 3,NC                                      |

COMMON TRIPLE

# EXTREME DUTY SIDE FLAIL MOTOR BREAKDOWN



COMMON TRIPLE

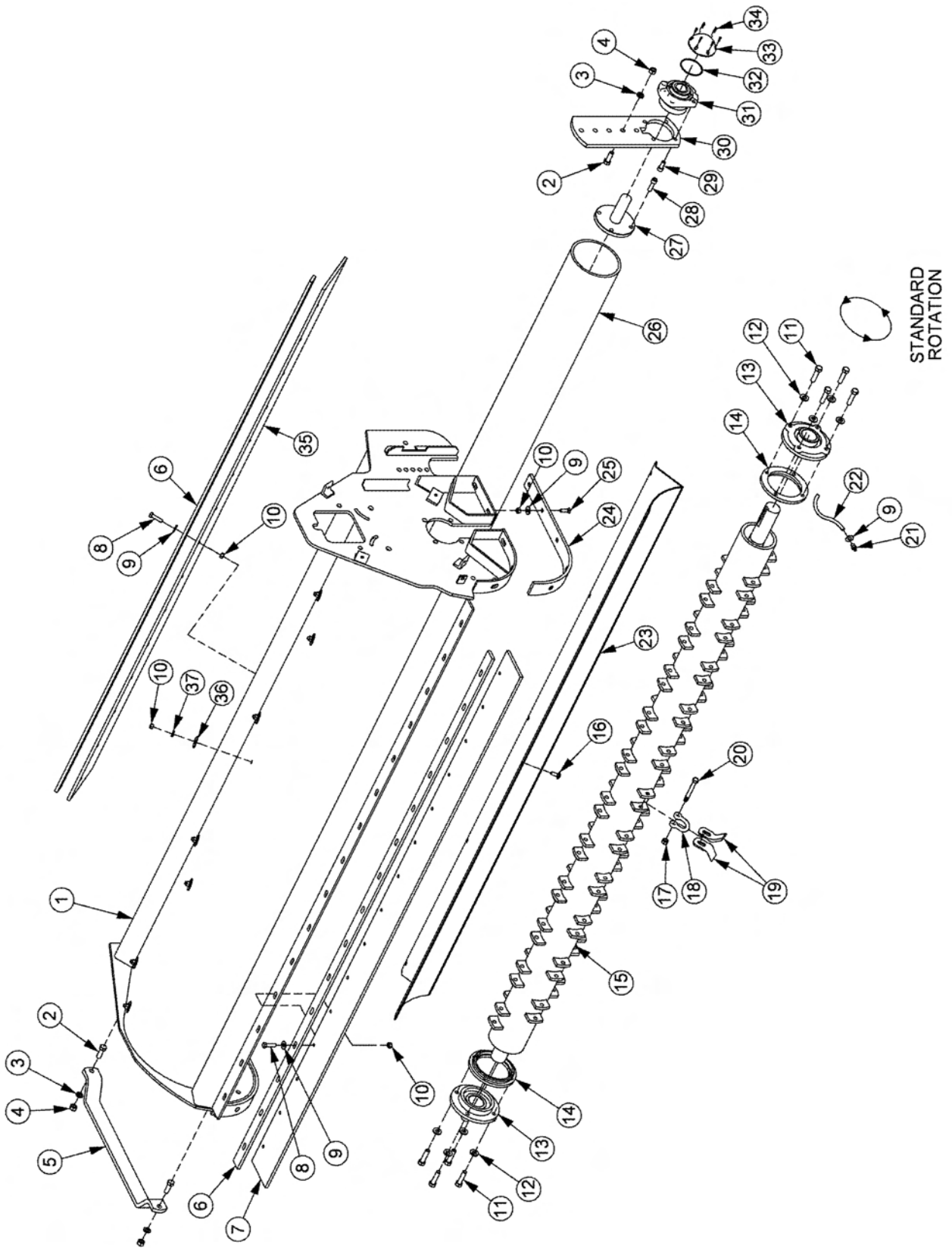
## EXTREME DUTY SIDE FLAIL MOTOR BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                |
|------|----------|------|--|
| ---  | 06504066 | -    | MOTOR ASSEMBLY 350 - TSF                   |
| 1    | 06504039 | 1    | SHAFT END COVER                            |
| 2    | 06504054 | 1    | PORT END COVER                             |
| 3    | 06504055 | 1    | GEAR HOUSING                               |
| 4    | 06504056 | 1    | MATCHED GEAR SET                           |
| 5    | TF4402   | 1    | BALL BEARING                               |
| 6    | 06504057 | 4    | CAP SCREW                                  |
| 7    | 06504044 | 2    | SET SCREW                                  |
| 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   | 02961932 | 1    | SEAL RETAINER                              |
| 20   | 6T5809   | 2    | CHECK ASSEMBLY                             |
| 21   | 02961917 | 4    | WASHER                                     |
| ---  | 06504023 | -    | SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18) |

COMMON TRIPLE

# SUPER DUTY 75IN REAR FLAIL - STD ROT



COMMON TRIPLE

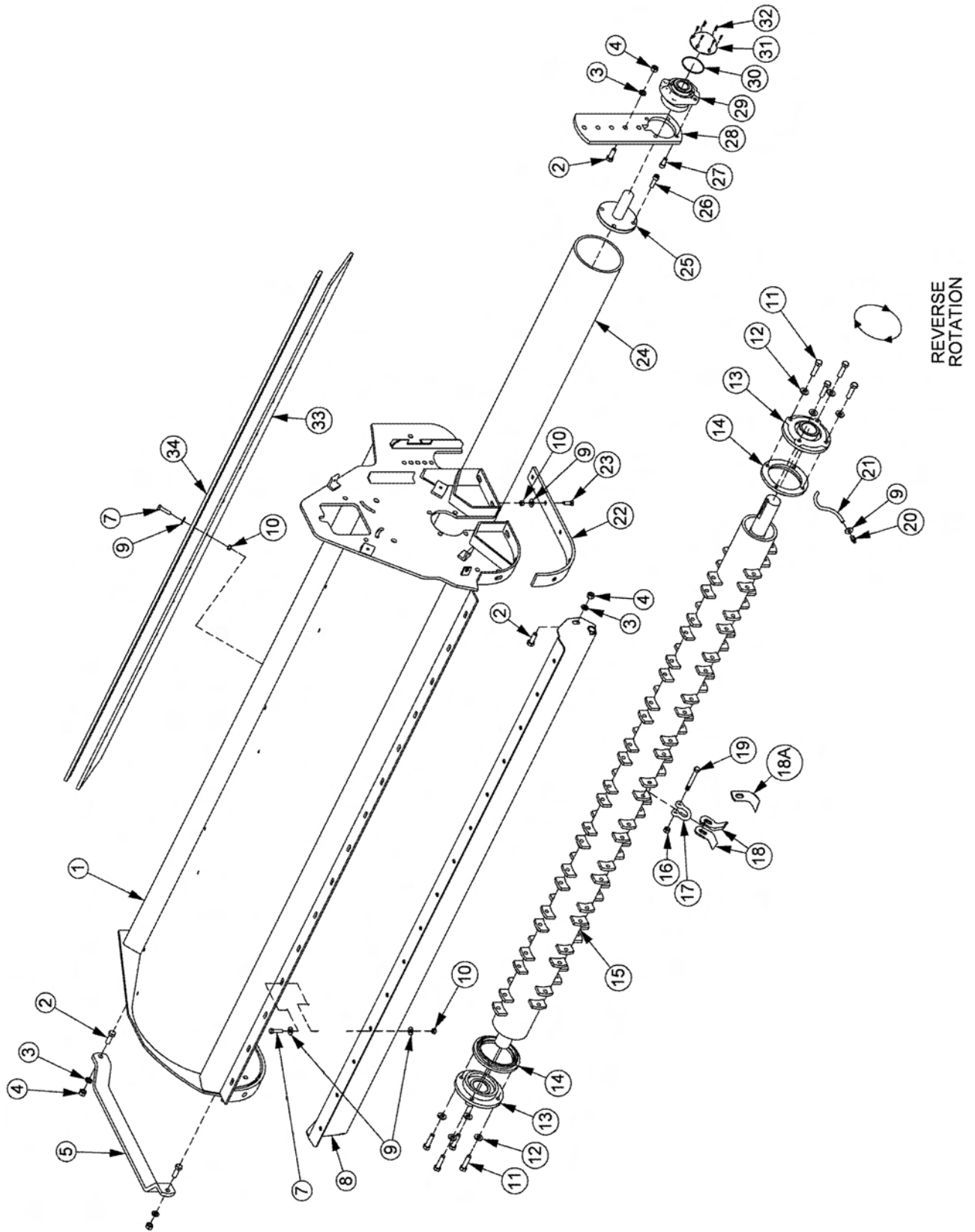
**SUPER DUTY 75IN REAR FLAIL - STD ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>  |
|-------------|-----------------|-------------|---|
| ---         | 06742090        | -           | 75" REAR FLAIL,SD,STD ROT                                   |
| 1           | 06320134        | 1           | BONNET,75",STD,ROSTA  |
| 2           | 21731           | 6           | CAPSCREW,1/2" X 1-1/2",NC                                   |
| 3           | 21990           | 6           | LOCKWASHER,1/2"   |
| 4           | 21725           | 6           | HEX NUT,1/2",NC   |
| 5           | 27975A          | 1           | GUARD,CUTTERSHAFT   |
| 6           | TF1029          | 2           | BAR,FLAP,TSF/TRF 75"  |
| 7           | 06520242        | 1           | FLAP,75",FRONT  |
| 8           | 21632           | 20          | CAPSCREW,3/8" X 1-1/2",NC                                   |
| 9           | 22016           | 37          | FLATWASHER,3/8",GR8   |
| 10          | 21625           | 46          | HEX NUT,3/8",NC   |
| ---         | 06200639        | -           | KIT,STRING GUARD (ITEMS 11, 12 & 14)                        |
| 11          | 06530217        | 8           | CAPSCREW,3/4" X 2-1/2",GR8,NC                               |
| 12          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9                                      |
| 13          | 28683           | 2           | BEARING,FLANGE,1-15/16",STD                                 |
| 14          | 33863           | 2           | STRING GUARD,STD  |
| ---         | 28747           | -           | CUTTERSHAFT ASSY (STANDARD CUT) (ITEMS 15, 17, 18, 19 & 20) |
| 15          | 28643B          | 1           | CUTTERSHAFT,75"STD,W/EARS                                   |
| 16          | 6T2283          | 10          | CARRIAGE BOLT,3/8" X 1",NC                                  |
| 17          | 21677           | 40          | NYLOCK NUT,7/16",NC   |
| 18          | TF1020          | 40          | KNIFE MTG CLEVIS,FLAIL                                      |
| 19          | 33713           | 80          | KNIFE,FLAIL (STANDARD CUT)                                  |
| 20          | 34011           | 40          | CAPSCREW,7/16" X 3-7/16",GR8,NC                             |
| 21          | TF1033          | 1           | GREASE ZERK,1/8" FPT  |
| 22          | TF1032          | 1           | GRS HOSE,3/16" X 8"   |
| 23          | 28737           | 1           | BAFFLE,75",STD ROT-STD                                      |
| 24          | 28086A          | 2           | SKID SHOE,STD DUTY,REAR FLAIL                               |
| 25          | 30013           | 10          | PLOW BOLT,3/8" X 1-1/4",GR5,NC                              |
| 26          | 28738           | 1           | GROUND ROLLER,75"   |
| 27          | TF1045B         | 2           | STUB SHAFT,GROUND ROLLER                                    |
| 28          | 6T2330          | 8           | CAPSCREW,SKT HD,7/16" X 1-1/2",NC                           |
| 29          | 6T2331          | 4           | CAPSCREW,SKT HD,7/16" X 1",NC                               |
| 30          | 28735           | 2           | GROUND ROLLER ADJ BRKT,STD DTY                              |
| 31          | 06520028        | 2           | BEARING,FLANGE,1-3/8",GRNDRLLR                              |
| 32          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                                       |
| 33          | 06520027        | 2           | CAP,BEARING,GRNDRLLR  |
| 34          | 06530001        | 12          | CAPSCREW,SKT HD,8-32 X 1/2",SS                              |
| 35          | TF1016          | 1           | FLAP,DEFLECTOR,75"  |
| 36          | 6T2615          | 10          | WASHER,FENDER,3/8"  |
| 37          | 21988           | 10          | LOCKWASHER,3/8"   |

COMMON TRIPLE

# SUPER DUTY 75IN REAR FLAIL - REV ROT



COMMON TRIPLE

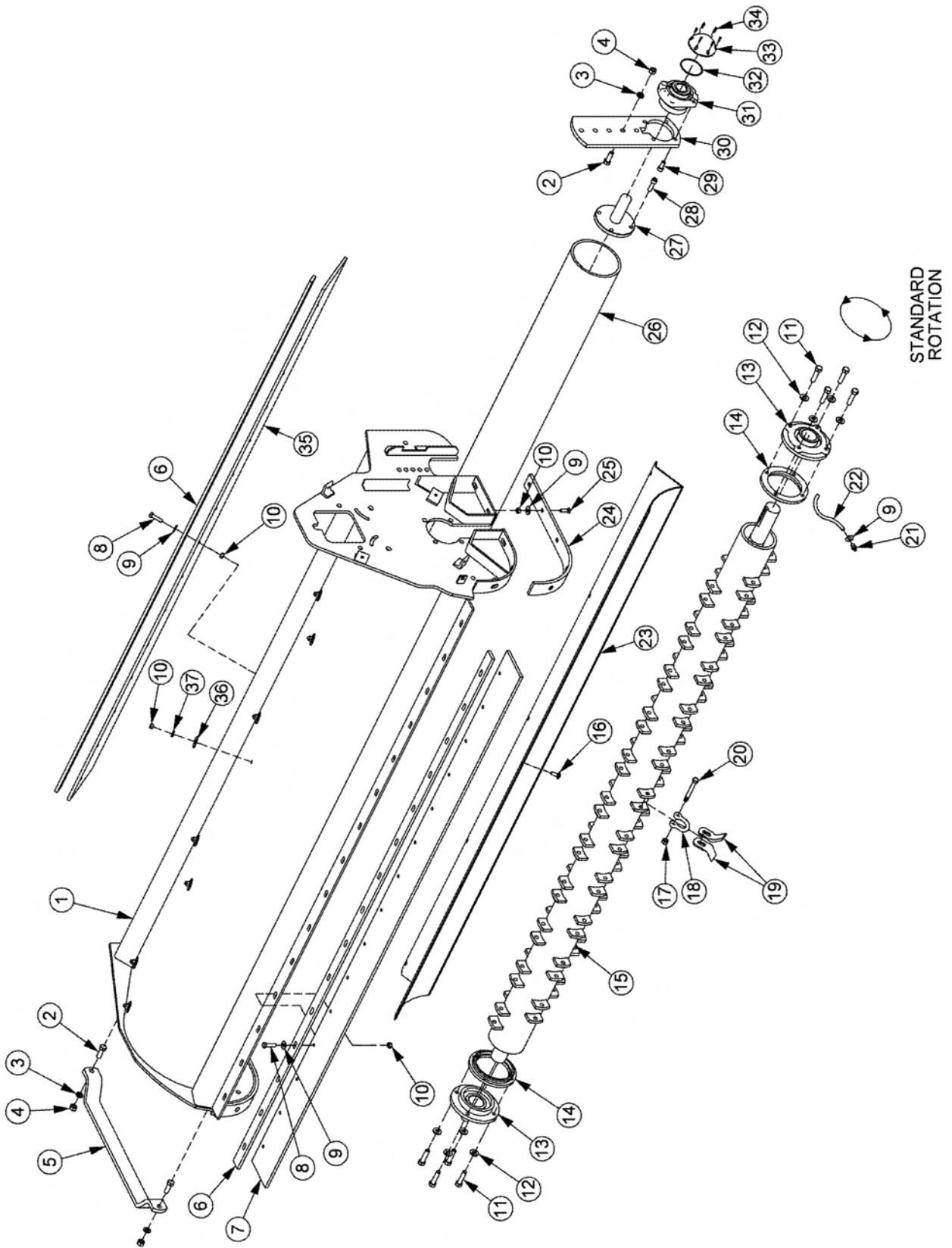
**SUPER DUTY 75IN REAR FLAIL - REV ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>  |
|-------------|-----------------|-------------|---|
| ---         | 06742091        | -           | 75IN REAR FLAIL,SD,RR (STANDARD CUT)                        |
| ----        | 06742092        | -           | 75IN REAR FLAIL,SD,RR (SMOOTH CUT)                          |
| 1           | 06320134        | 1           | BONNET,75",STD,ROSTA  |
| 2           | 21731           | 8           | CAPSCREW,1/2" X 1-1/2",NC                                   |
| 3           | 21990           | 8           | LOCKWASHER,1/2"   |
| 4           | 21725           | 8           | HEX NUT,1/2",NC   |
| 5           | 27975A          | 1           | GUARD,CUTTERSHAFT   |
| 7           | 21632           | 20          | CAPSCREW,3/8" X 1-1/2",NC                                   |
| 8           | 28968A          | 1           | TRASH GUARD,75"   |
| 9           | 22016           | 50          | FLATWASHER,3/8",GR8   |
| 10          | 21625           | 40          | HEX NUT,3/8",NC   |
| ---         | 06200639        | -           | KIT,STRING GUARD (ITEMS 11, 12 & 14)                        |
| 11          | 06530217        | 8           | CAPSCREW,3/4" X 2-1/2",GR8,NC                               |
| 12          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9                                      |
| 13          | 28683           | 2           | BEARING,FLANGE,1-15/16",STD                                 |
| 14          | 33863           | 2           | STRING GUARD,STD  |
| ---         | 28747           | -           | CUTTERSHAFT,ASSY (STANDARD CUT) (ITEMS 15, 16, 17, 18 & 19) |
| ----        | 28748           | -           | CUTTERSHAFT,ASSY (SMOOTH CUT) (ITEMS 15, 16, 17, 18A & 19)  |
| 15          | 28643B          | 1           | CUTTERSHAFT,75"STD,W/EARS                                   |
| 16          | 21677           | 40          | NYLOCK NUT,7/16",NC   |
| 17          | TF1020          | 40          | KNIFE MTG CLEVIS,FLAIL                                      |
| 18          | 33713           | 80          | KNIFE,FLAIL (STANDARD CUT)                                  |
| 18A         | 28184A          | 40          | KNIFE,FLAIL (SMOOTH CUT)                                    |
| 19          | 34011           | 40          | CAPSCREW,7/16" X 3-7/16",GR8,NC                             |
| 20          | TF1033          | 1           | GREASE ZERK,1/8" FPT  |
| 21          | TF1032          | 1           | GRS HOSE,3/16" X 8"   |
| 22          | 28086A          | 2           | SKID SHOE,STD DUTY,REAR FLAIL                               |
| 23          | 30013           | 10          | PLOW BOLT,3/8" X 1-1/4",GR5,NC                              |
| 24          | 28738           | 1           | GROUND ROLLER,75"   |
| 25          | TF1045B         | 2           | STUB SHAFT,GROUND ROLLER                                    |
| 26          | 6T2330          | 8           | CAPSCREW,SKT HD,7/16" X 1-1/2",NC                           |
| 27          | 6T2331          | 4           | CAPSCREW,SKT HD,7/16" X 1",NC                               |
| 28          | 28735           | 2           | GROUND ROLLER ADJ BRKT,STD DTY                              |
| 29          | 06520028        | 2           | BEARING,FLANGE,1-3/8",GRNDRLLR                              |
| 30          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                                       |
| 31          | 06520027        | 2           | CAP,BEARING,GRNDRLLR  |
| 32          | 06530001        | 12          | CAPSCREW,SKT HD,8-32 X 1/2",SS                              |
| 33          | TF1016          | 1           | FLAP,DEFLECTOR,75"  |
| 34          | TF1029          | 1           | BAR,FLAP,TSF/TRF,75"  |

COMMON TRIPLE

# SUPER DUTY 90IN REAR FLAIL - STD ROT



COMMON TRIPLE



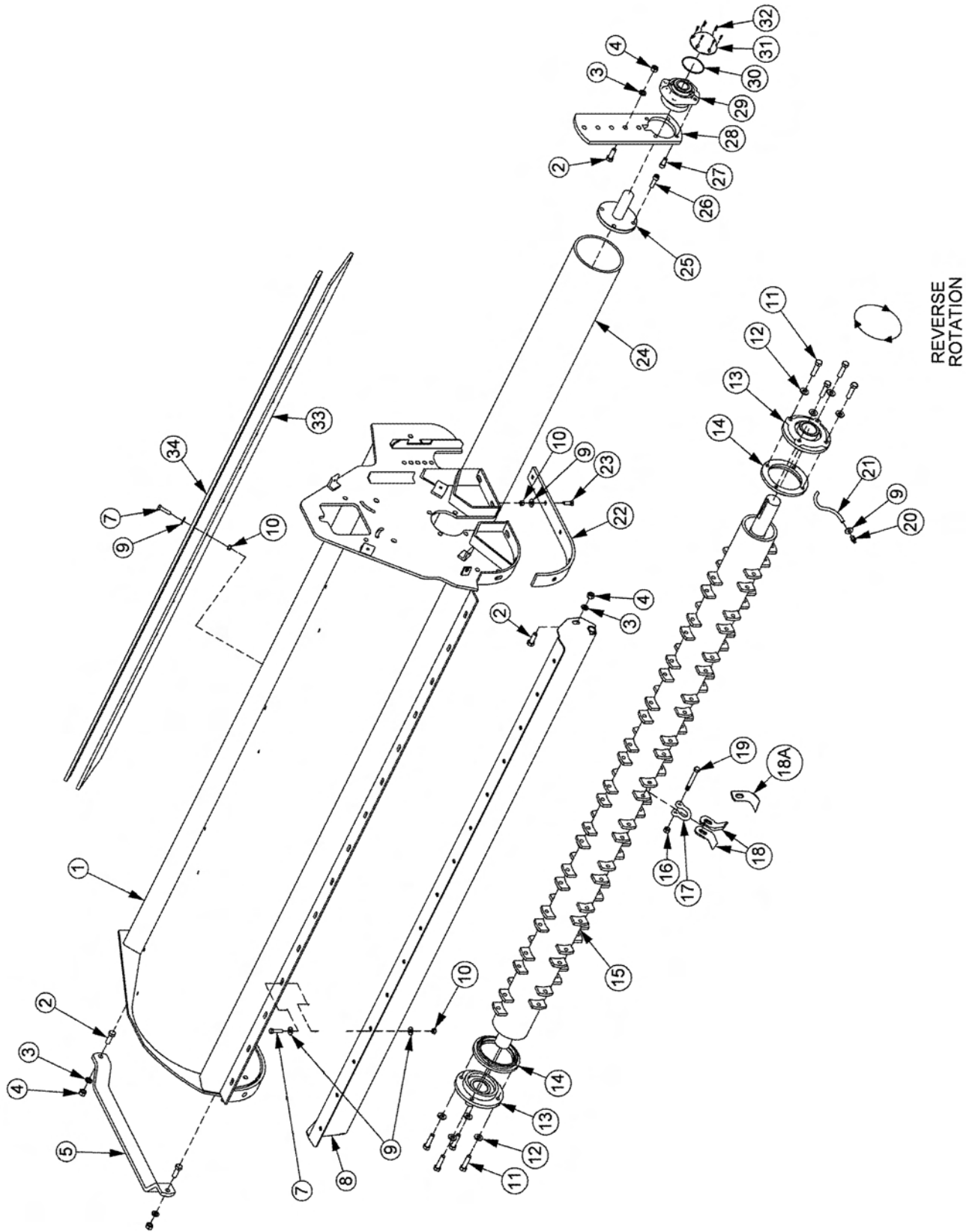
## SUPER DUTY 90IN REAR FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                  |
|------|----------|------|--|
| ---  | 06742080 | -    | 90" REAR FLAIL,SD,STD ROT                    |
| 1    | 06320115 | 1    | BONNET,90",STD,ROSTA                         |
| 2    | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC                    |
| 3    | 21990    | 6    | LOCKWASHER,1/2"                              |
| 4    | 21725    | 6    | HEX NUT,1/2",NC                              |
| 5    | 27975A   | 1    | GUARD,CUTTERSHAFT                            |
| 6    | TF1135   | 2    | BAR,FLAP,TSF/TRF 90"                         |
| 7    | 06520243 | 1    | FLAP,90",FRONT                               |
| 8    | 21632    | 20   | CAPSCREW,3/8" X 1-1/2",NC                    |
| 9    | 22016    | 41   | FLATWASHER,3/8",GR8                          |
| 10   | 21625    | 50   | HEX NUT,3/8",NC                              |
| ---  | 06200639 | -    | KIT,STRING GUARD (ITEMS 11, 12 & 14)         |
| 11   | 06530217 | 8    | CAPSCREW,3/4" X 2-1/2",GR8,NC                |
| 12   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9                       |
| 13   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD                  |
| 14   | 33863    | 2    | STRING GUARD,STD                             |
| ---  | 28745    | -    | CUTTERSHAFT ASSY (ITEMS 15, 17, 18, 19 & 20) |
| 15   | 27964C   | 1    | CUTTERSHAFT,90"STD,W/EARS                    |
| 16   | 6T2283   | 10   | CARRIAGE BOLT,3/8" X 1",NC                   |
| 17   | 21677    | 48   | NYLOCK NUT,7/16",NC                          |
| 18   | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL                       |
| 19   | 33713    | 96   | KNIFE,FLAIL,SHORT                            |
| 20   | 34011    | 48   | CAPSCREW,7/16" X 3-7/16",GR8,NC              |
| 21   | TF1033   | 1    | GREASE ZERK,1/8" FPT                         |
| 22   | TF1032   | 1    | GRS HOSE,3/16" X 8"                          |
| 23   | 27971    | 1    | BAFFLE,90",STD ROT-STD                       |
| 24   | 28086A   | 2    | SKID SHOE,STD DUTY,REAR FLAIL                |
| 25   | 30013    | 10   | PLOW BOLT,3/8" X 1-1/4",GR5,NC               |
| 26   | 27972A   | 1    | GROUND ROLLER,90"                            |
| 27   | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER                     |
| 28   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16" X 1-1/2",NC            |
| 29   | 6T2331   | 4    | CAPSCREW,SKT HD,7/16" X 1",NC                |
| 30   | 28735    | 2    | GROUND ROLLER ADJ BRKT,STD DTY               |
| 31   | 06520028 | 2    | BEARING,FLANGE,1-3/8",GRNDRLLR               |
| 32   | 06520029 | 2    | O-RING,2-3/4" X 3/32"                        |
| 33   | 06520027 | 2    | CAP,BEARING,GRNDRLLR                         |
| 34   | 06530001 | 12   | CAPSCREW,SKT HD,8-32 X 1/2",SS               |
| 35   | TF1116   | 1    | FLAP,DEFLECTOR,90"                           |
| 36   | 6T2615   | 10   | WASHER,FENDER,3/8"                           |
| 37   | 21988    | 10   | LOCKWASHER,3/8"                              |

COMMON TRIPLE

# SUPER DUTY 90IN REAR FLAIL - REV ROT



COMMON TRIPLE

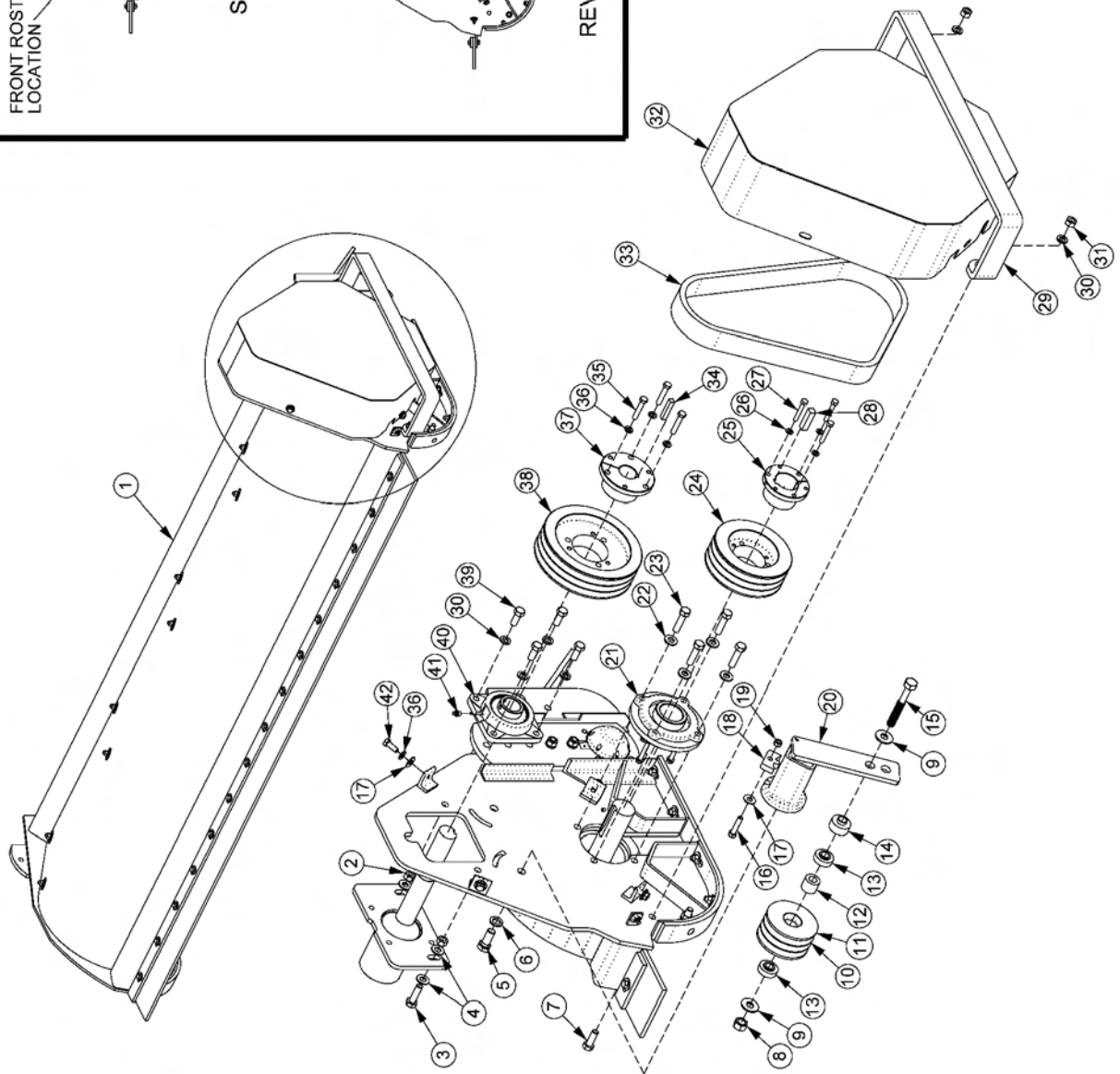
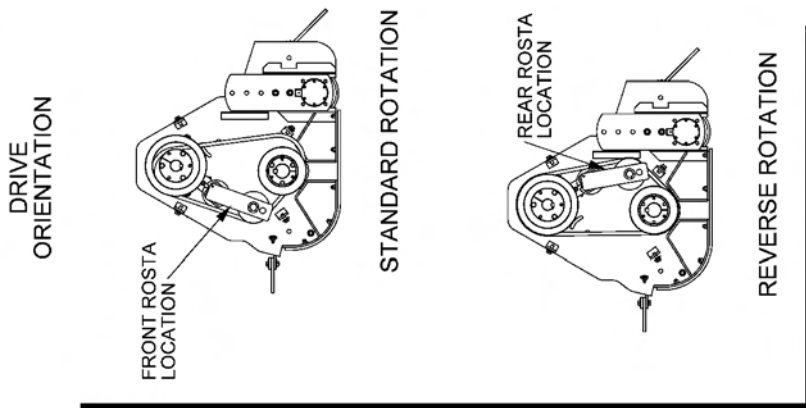
## SUPER DUTY 90IN REAR FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION  |
|------|----------|------|--|
| ---  | 06742083 | -    | 90" REAR FLAIL,SD (STANDARD CUT)                             |
| ---- | 06742084 | -    | 90" REAR FLAIL,SD (SMOOTH CUT)                               |
| 1    | 06320115 | 1    | BONNET,90",STD,ROSTA   |
| 2    | 21731    | 8    | CAPSCREW,1/2" X 1-1/2",NC                                    |
| 3    | 21990    | 8    | LOCKWASHER,1/2"  |
| 4    | 21725    | 8    | HEX NUT,1/2",NC  |
| 5    | 27975A   | 1    | GUARD,CUTTERSCHAFT   |
| 7    | 21632    | 20   | CAPSCREW,3/8" X 1-1/2",NC                                    |
| 8    | 28967A   | 1    | TRASH GUARD,90"  |
| 9    | 22016    | 56   | FLATWASHER,3/8",GR8  |
| 10   | 21625    | 40   | HEX NUT,3/8",NC  |
| ---  | 06200639 | -    | KIT,STRING GUARD (ITEMS 11, 12 & 14)                         |
| 11   | 06530217 | 8    | CAPSCREW,3/4" X 2-1/2",GR8,NC                                |
| 12   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9                                       |
| 13   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD                                  |
| 14   | 33863    | 2    | STRING GUARD,STD   |
| ---  | 28745    | -    | CUTTERSCHAFT ASSY (STANDARD CUT) (ITEMS 15, 16, 17, 18 & 19) |
| ---- | 28746    | -    | CUTTERSCHAFT ASSY (SMOOTH CUT) (ITEMS 15, 16, 17, 18A & 19)  |
| 15   | 27964C   | 1    | CUTTERSCHAFT,90"STD,W/EARS                                   |
| 16   | 21677    | 48   | NYLOCK NUT,7/16",NC  |
| 17   | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL                                       |
| 18   | 33713    | 96   | KNIFE,FLAIL (STANDARD CUT)                                   |
| 18A  | 28184A   | 48   | KNIFE,FLAIL (SMOOTH CUT)                                     |
| 19   | 34011    | 48   | CAPSCREW,7/16" X 3-7/16",GR8,NC                              |
| 20   | TF1033   | 1    | GREASE ZERK,1/8" FPT   |
| 21   | TF1032   | 1    | GRS HOSE,3/16" X 8"  |
| 22   | 28086A   | 2    | SKID SHOE,STD DUTY,REAR FLAIL                                |
| 23   | 30013    | 10   | PLOW BOLT,3/8" X 1-1/4",GR5,NC                               |
| 24   | 27972A   | 1    | GROUND ROLLER,90"  |
| 25   | TF1045B  | 2    | STUB SHAFT,GROUND ROLLER                                     |
| 26   | 6T2330   | 8    | CAPSCREW,SKT HD,7/16" X 1-1/2",NC                            |
| 27   | 6T2331   | 4    | CAPSCREW,SKT HD,7/16" X 1",NC                                |
| 28   | 28735    | 2    | GROUND ROLLER ADJ BRKT,STD DTY                               |
| 29   | 06520028 | 2    | BEARING,FLANGE,1-3/8",GRNDRLLR                               |
| 30   | 06520029 | 2    | O-RING,2-3/4" X 3/32"  |
| 31   | 06520027 | 2    | CAP,BEARING,GRNDRLLR   |
| 32   | 06530001 | 12   | CAPSCREW,SKT HD,8-32 X 1/2",SS                               |
| 33   | TF1116   | 1    | FLAP,DEFLECTOR,90"   |
| 34   | TF1035   | 1    | BAR,FLAP,TSF/TRF,90"   |

COMMON TRIPLE

# SUPER DUTY REAR FLAIL DRIVE ASSY



| ITEM | PART NO. | QTY. | DESCRIPTION                      |
|------|----------|------|----------------------------------|
| 1    | -----    | -    | BONNET *REFER TO CUTTER ASSEMBLY |
| 2    | 21727    | 2    | NYLOCK NUT,1/2",NC               |
| 3    | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC        |
| 4    | 22018    | 4    | FLATWASHER,1/2",WIDE             |

COMMON TRIPLE

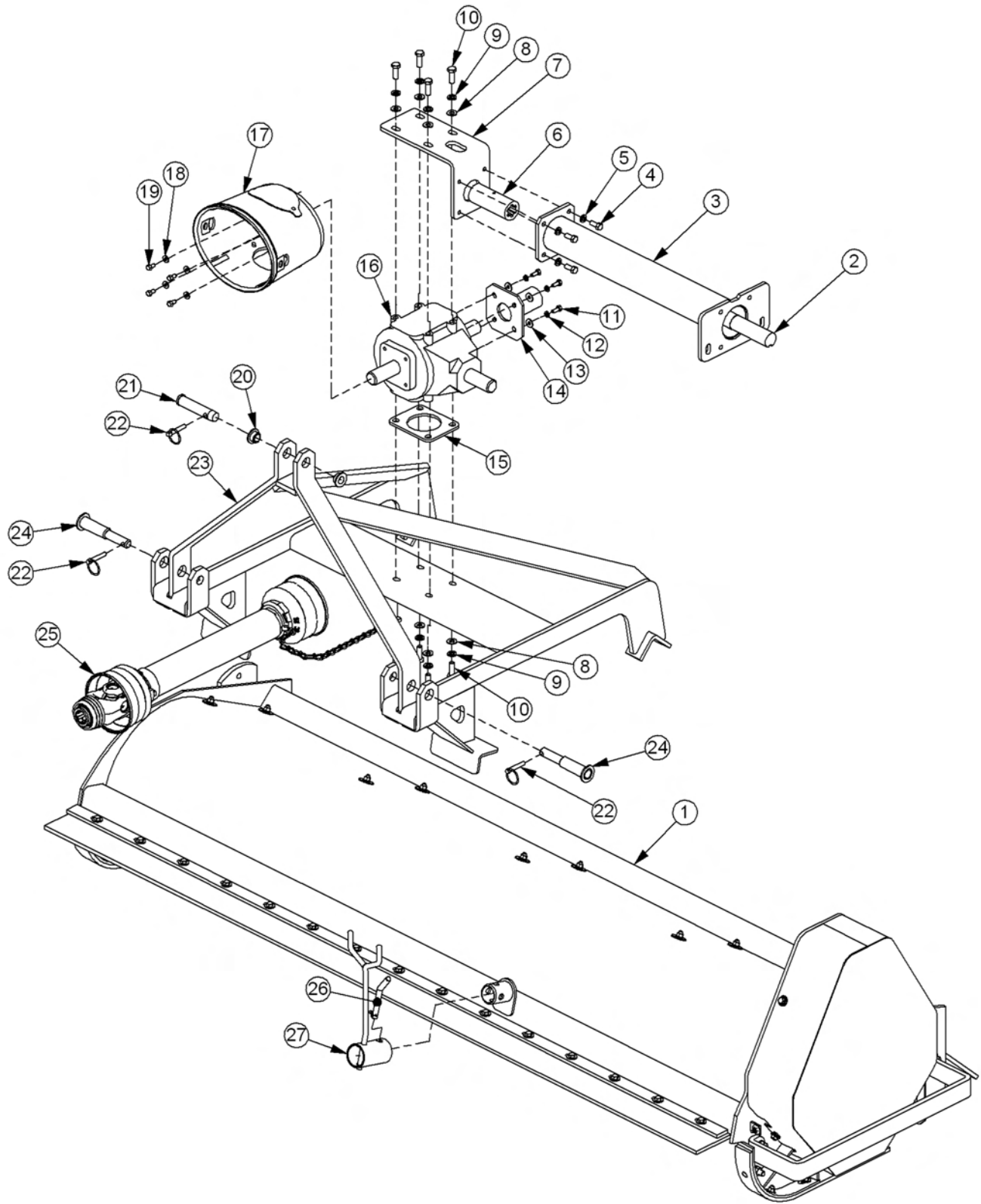
## SUPER DUTY REAR FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                      |
|------|----------|------|----------------------------------|
| 5    | 22421    | -    | CAPSCREW,16MM X 40MM(2.0P)       |
| 6    | 31956    | -    | FLATWASHER,16MM,HARDENED         |
| 7    | 21731    | 2    | CAPSCREW,1/2" X 1-1/2",NC        |
| 8    | 32838    | 1    | HEX NUT,5/8-11 UNC,GR8           |
| 9    | 25270    | 2    | FLATWASHER,5/8",GR8,USS          |
| 10   | 06700092 | -    | ASSY,SHEAVE,IDLER,3 GRV          |
| 11   | 06420072 | 1    | SHEAVE,IDLER,3 GRV               |
| 12   | 31298    | 2    | BRG,FAFNIR,203KRR2               |
| 13   | 06430072 | 1    | SPACER,1.25" X .69" X 1.03"      |
| 14   | 06420094 | 1    | SPACER,1.00" X 1.63" X .64"      |
| 15   | 33854    | 1    | CAPSCREW,5/8" X 4-1/2",GR8,NC    |
| 16   | 21632    | 1    | CAPSCREW,3/8" X 1-1/2",NC        |
| 17   | 22016    | 5    | FLATWASHER,3/8",GR8              |
| 18   | 06400717 | 1    | STOP,ROSTA                       |
| 19   | 21627    | 1    | NYLOCK NUT,3/8",NC               |
| 20   | 06520306 | 1    | TNSNR,ROSTA,SE38,W/MTG BOLT      |
| 21   | 28683    | 2    | BEARING,FLANGE,1-15/16",STD      |
| 22   | 06533006 | 8    | FLATWASHER,1/2",L9,SAE           |
| 23   | 06530217 | 8    | CAPSCREW,1/2" X 2",L9,NC         |
| 24   | 06520218 | 1    | SHEAVE,6.7",3G5V,QD,SK           |
| 25   | 28723    | 1    | BUSHING,QD,SK 1-15/16"           |
| 26   | 21987    | 3    | LOCKWASHER,5/16"                 |
| 27   | 21584    | 3    | CAPSCREW,5/16" X 2",NC           |
| 28   | 26142A   | 1    | KEY,1/2"SQ X 2"                  |
| 29   | 06410723 | 1    | BAR,RUB                          |
| 30   | 21990    | 6    | LOCKWASHER,1/2"                  |
| 31   | 21725    | 2    | HEX NUT,1/2",NC                  |
| 32   | 06320114 | 1    | SHIELD,BELT,WLDMNT,STD           |
| 33   | 06520312 | 1    | BELT,BANDED,3/5VX560             |
| 34   | 28224    | 1    | KEY,3/8"SQ X 2"                  |
| 35   | 21634    | 3    | CAPSCREW,3/8" X 2",NC            |
| 36   | 21988    | 3    | LOCKWASHER,3/8"                  |
| 37   | 06520304 | 1    | BUSHING,QD,SF 1-1/2",3/8" KEY    |
| 38   | 02967325 | 1    | SHEAVE,8.5",3G5V                 |
| 39   | 21730    | 4    | CAPSCREW,1/2" X 1-1/4",NC        |
| 40   | 06520308 | 1    | BRNG,FLNG,1-1/2",GRIP-TIGHT      |
| 41   | 6T3208   | 1    | ZERK,1/8" X 45°                  |
| 42   | 21630    | 4    | CAPSCREW,3/8" X 1",NC            |
| 43   | 06520386 | -    | GAGE,TENSION,PLUNGER (NOT SHOWN) |
| 44   | 06401023 | -    | WRENCH,ROSTA                     |

COMMON TRIPLE

# SUPER DUTY PTO DRIVE ASSY



COMMON TRIPLE

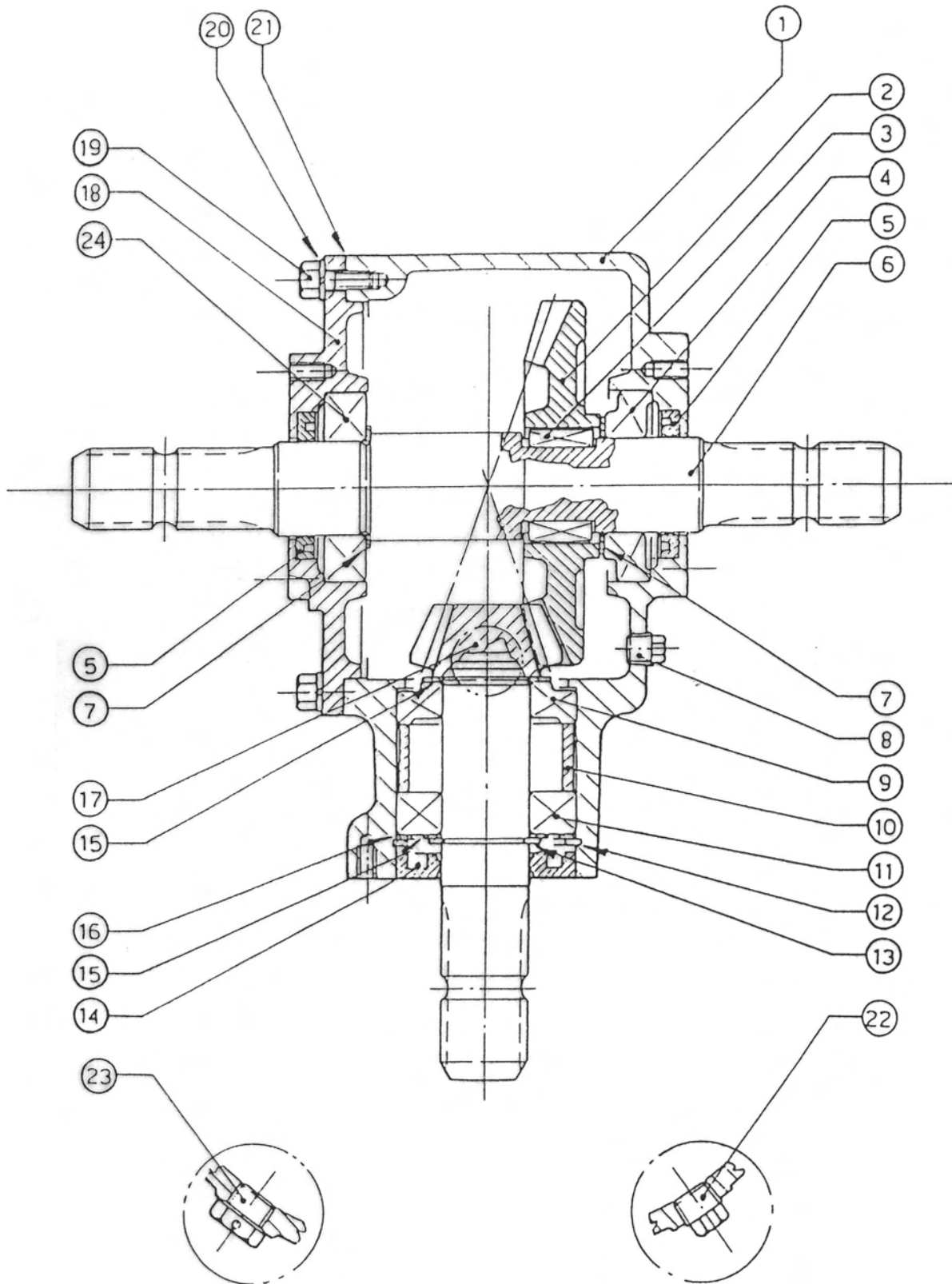
## SUPER DUTY PTO DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                      |
|------|----------|------|----------------------------------|
| 1    | 06320134 | 1    | BONNET,75,STD,ROSTA              |
| ---  | 06320115 | -    | BONNET,90,STD,ROSTA              |
| 2    | 06420110 | 1    | SHAFT,OUTPUT,TRF75               |
| ---- | 06420109 | -    | SHAFT,OUTPUT,TRF75 (OFFSET)      |
| ---  | 06420092 | -    | SHAFT,OUTPUT,TRF90               |
| ---- | 06420109 | -    | SHAFT,OUTPUT,TRF90 (OFFSET)      |
| 3    | 06320133 | 1    | TUBE,SAFETY,75,SD                |
| ---- | 06320119 | 1    | TUBE,SAFETY,75 (OFFSET)          |
| ---  | 06320117 | -    | TUBE,SAFETY,90,SD                |
| ---- | 06320119 | -    | TUBE,SAFETY,90 (OFFSET)          |
| 4    | 21679    | 4    | CAPSCREW,7/16 X 1,NC             |
| 5    | 21989    | 4    | LOCKWASHER,7/16                  |
| 6    | 28914    | 1    | COUPLING,6 SPLINE W/ZERK         |
| 7    | 33204    | 1    | PLATE,MNT,GUARD                  |
| 8    | 27724    | 8    | LOCKWASHER,12MM                  |
| 9    | 22017    | 4    | FLATWASHER,7/16                  |
| 10   | 34890    | 8    | CAPSCREW,12MM X 35MM(1.75P)      |
| 11   | 27508    | 4    | CAPSCREW,8MM X 20MM(1.25P)       |
| 12   | 6T2619   | 4    | LOCKWASHER,8MM                   |
| 13   | 22015    | 4    | FLATWASHER,5/16                  |
| 14   | 28447E   | 1    | GUARD,TRF,OUTPUT SHAFT           |
| 15   | 06400018 | 1    | SPACER,REAR FLAIL (IF NECESSARY) |
| 16   | 28950    | 1    | GEAR BOX,540 RPM                 |
| 17   | 06520181 | 1    | SHIELD,PTO                       |
| 18   | 34948    | 4    | FLATWASHER,3/8                   |
| 19   | 27507    | 4    | CAPSCREW,8MM X 15MM(1.25P)       |
| 20   | 28235A   | 2    | BUSHING,3PT,CAT II TO CAT I      |
| 21   | TB1036   | 1    | PIN,SEC BOOM SWIV 1 X 4-11/16    |
| 22   | TF1143   | 3    | PIN,LYNCH,7/16 X 2               |
| 23   | 06370154 | 1    | FRM,3PT,STD                      |
| 24   | 28234B   | 2    | PIN,3PT,TRF,STD                  |
| 25   | 06520414 | 1    | PTO,DRV SHFT,TRF                 |
| ---  | 06520415 | -    | PTO,DRV SHFT,TRF,W/ CLUTCH       |
| 26   | 06520048 | 1    | PIN,.5 X 2.5,BENT,W/R-CLIP       |
| 27   | 06370022 | 1    | SUPPORT,PTO                      |

COMMON TRIPLE

# SUPER DUTY REAR GEAR BOX ASSY



COMMON TRIPLE



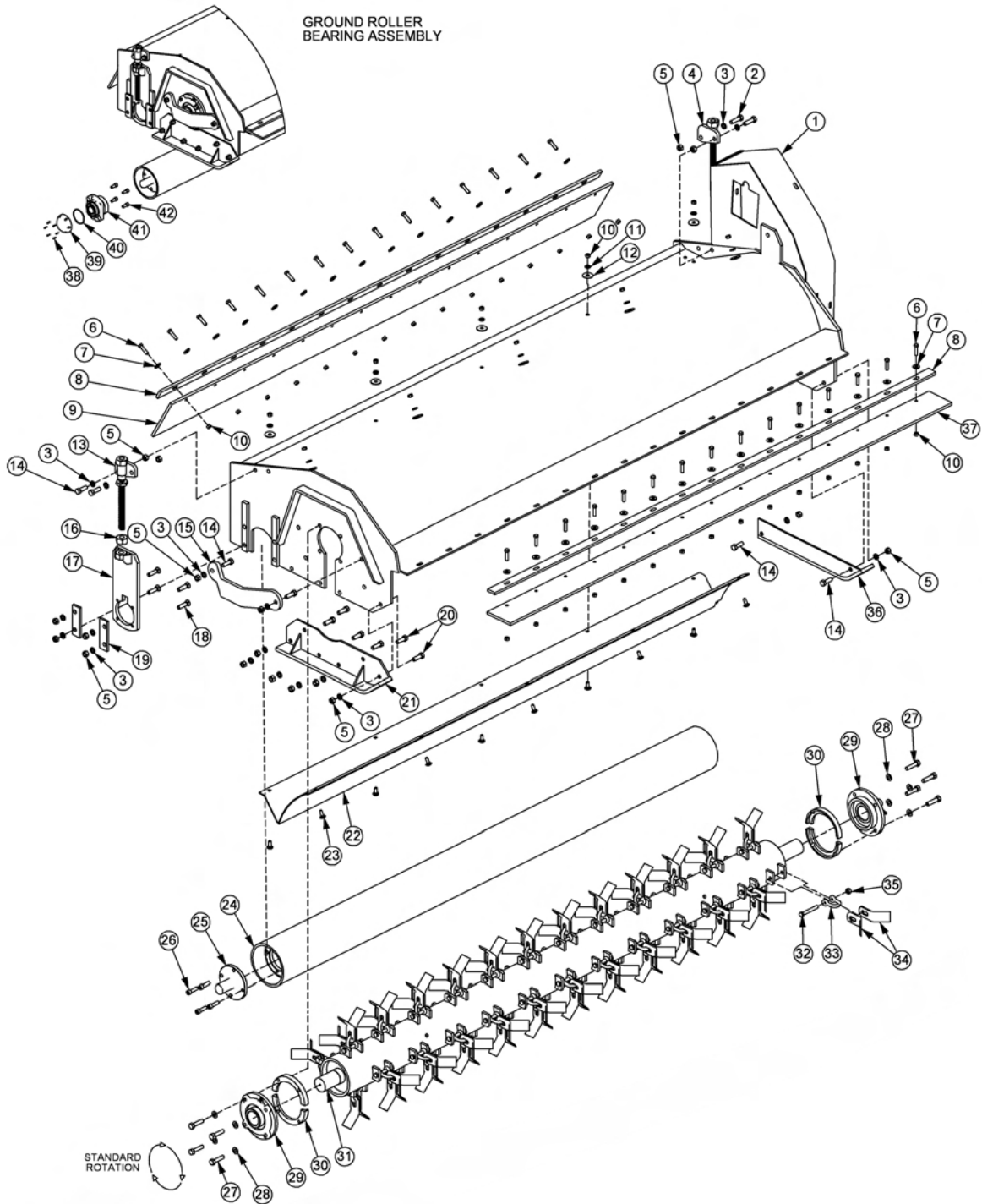
## SUPER DUTY REAR GEAR BOX ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION           |
|------|----------|------|-----------------------|
| 1    | 30133    | 1    | CASING                |
| 2    | 30134    | 1    | CROWNWHEEL Z30        |
| 3    | 30135    | 2    | PARALLEL KEY          |
| 4    | 28604    | 1    | BEARING 30208         |
| 5    | 30136    | 2    | OIL SEAL 40 X 62 X 7  |
| 6    | 30137    | 1    | SHAFT                 |
| 7    | 28603    | 2    | SHIM                  |
| 8    | 30138    | 1    | PLUG                  |
| 9    | 30139    | 1    | BEARING 30207         |
| 10   | 30140    | 1    | SPACER                |
| 11   | 30141    | 1    | BEARING 6207          |
| 12   | 30142    | 1    | INTERNAL CIRCLIP 72   |
| 13   | 30143    | 1    | EXTERNAL CIRCLIP 35   |
| 14   | 30144    | 2    | OIL SEAL 35 X 72 X 10 |
| 15   | 30145    | 1    | SHIM                  |
| 16   | 30146    | 1    | SHIM                  |
| 17   | 30147    | 1    | PINION Z10            |
| 18   | 30148    | 1    | COVER                 |
| 19   | 30149    | 6    | HEX BOLT M8 X 22      |
| 20   | 30150    | 6    | WASHER                |
| 21   | 30151    | 1    | SEAL                  |
| 22   | 30152    | 1    | PLUG                  |
| 23   | 30153    | 1    | OIL FILLER PLUG       |
| 24   | 30154    | 1    | BEARING 6208          |

COMMON TRIPLE

# EXTREME DUTY 75IN REAR FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION                    |
|------|----------|------|--------------------------------|
| ---  | 33036    | -    | 75" REAR FLAIL ASSY,HD,STD ROT |
| 1    | 22043J   | 1    | BONNET,75",HD                  |
| 2    | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC      |
| 3    | 21990    | 22   | LOCKWASHER,1/2"                |

COMMON TRIPLE

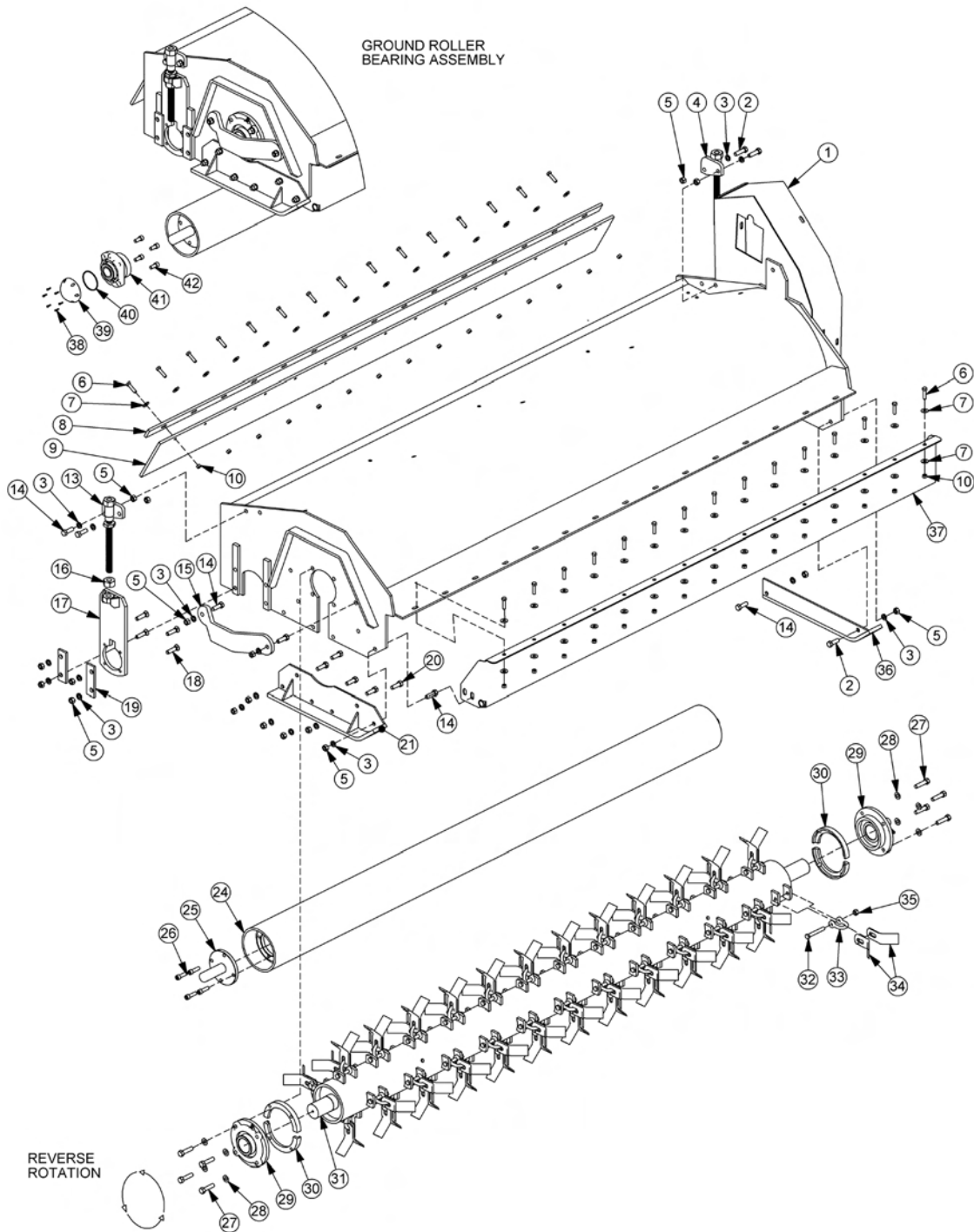
**EXTREME DUTY 75IN REAR FLAIL - STD ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>                   |
|-------------|-----------------|-------------|--------------------------------------|
| 4           | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF             |
| 5           | 21725           | 22          | HEX NUT,1/2",NC                      |
| 6           | 21632           | 26          | CAPSCREW,3/8" X 1-1/2",NC            |
| 7           | 22016           | 26          | FLATWASHER,3/8"                      |
| 8           | TF1029          | 2           | BAR,FLAP,TSF/TRF,75"                 |
| 9           | TF1016          | 1           | FLAP,DEFLECTOR,TSF/TRF,75"           |
| 10          | 21625           | 36          | HEX NUT,3/8",NC                      |
| 11          | 21988           | 10          | LOCKWASHER,3/8"                      |
| 12          | 6T2615          | 10          | WASHER,FENDER,3/8"                   |
| 13          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT             |
| 14          | 21731           | 6           | CAPSCREW, 1/2" X 1-1/2",NC           |
| 15          | TF1040          | 1           | GUARD,CUTTERSHAFT                    |
| 16          | 21399           | 2           | HEX NUT,3/4",ACME THRD               |
| 17          | TF4333A         | 2           | GROUND ROLLER ADJ BRKT               |
| 18          | 6T2294          | 8           | PLOW BOLT,1/2" X 2",NC               |
| 19          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK             |
| 20          | 21730           | 6           | CAPSCREW,1/2" X 1-1/4",NC            |
| 21          | TF4371          | 1           | SKID SHOE,L/PROFILE-OUTER            |
| 22          | TF1402A         | 1           | BAFFLE,FLAIL,75",HD                  |
| 23          | 6T2283          | 10          | CARRIAGE BOLT,3/8" X 1",NC           |
| 24          | 28738           | 1           | GROUND ROLLER,75"                    |
| 25          | TF1045B         | 2           | GRND ROLLER STUB SHAFT               |
| 26          | 6T2330          | 8           | CAPSCREW, 7/16" X 1-1/2", SKT HD     |
| ---         | 06200347        | -           | KIT,STRING GUARD (ITEMS 27, 28 & 30) |
| 27          | 06530217        | 8           | CAPSCREW,1/2" X 2",NC,L9             |
| 28          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9               |
| 29          | TF1018          | 2           | BEARING,FLANGE,2-3/16"               |
| 30          | 31204           | 2           | STRING GUARD,HD                      |
| ---         | TF1002A         | -           | CUTTERSHAFT ASSY,75IN                |
| 31          | TF1002          | 1           | CUTTERSHAFT,75IN                     |
| 32          | 30411           | 40          | KNIFE MOUNTING BOLT,FLAIL            |
| 33          | TF1020          | 40          | KNIFE MTG CLEVIS,FLAIL               |
| 34          | 33714           | 80          | KNIFE,FLAIL,STANDARD CUT             |
| 35          | 21677           | 40          | NYLOCK NUT,7/16",NC                  |
| 36          | TF4365          | 1           | SKID SHOE,L/PROFILE-INNER            |
| 37          | 06520242        | 1           | FLAP,FRONT,75"                       |
| 38          | 06530001        | 12          | CAPSCREW,SKT HD                      |
| 39          | 06520027        | 2           | CAP,BEARING                          |
| 40          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                |
| 41          | 06520028        | 2           | BEARING,FLANGE,1-3/8"                |
| 42          | 6T2331          | 8           | CAPSCREW,7/16" X 1",SKT HD           |

COMMON TRIPLE

# EXTREME DUTY 75IN REAR FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| ---  | 33038    | -    | REAR FLAIL,75IN,ASSY (STANDARD CUT) |
| ---- | 33040    | -    | REAR FLAIL,75IN,ASSY (SMOOTH CUT)   |
| 1    | 22043J   | 1    | BONNET,75",HD                       |
| 2    | 21732    | 3    | CAPSCREW,1/2" X 1-3/4",NC           |

COMMON TRIPLE

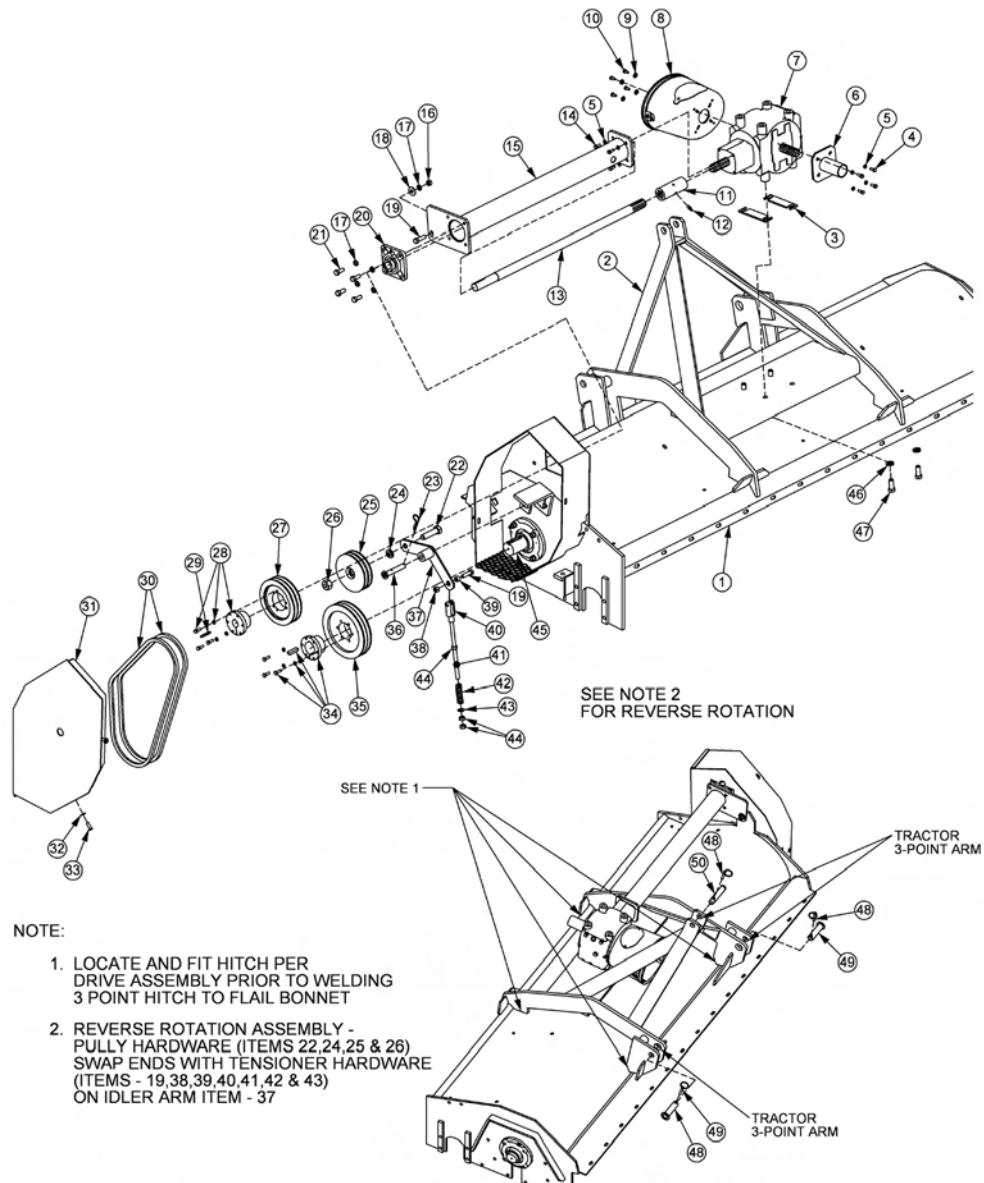
## EXTREME DUTY 75IN REAR FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION  |
|------|----------|------|--|
| 3    | 21990    | 22   | LOCKWASHER,1/2"  |
| 4    | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF   |
| 5    | 21725    | 22   | HEX NUT,1/2",NC  |
| 6    | 21632    | 26   | CAPSCREW,3/8" X 1-1/2",NC  |
| 7    | 22016    | 39   | FLATWASHER,3/8"  |
| 8    | TF1029   | 1    | BAR,FLAP,TSF/TRF,75"   |
| 9    | TF1016   | 1    | FLAP,DEFLECTOR,TSF/TRF,75"                                       |
| 10   | 21625    | 36   | HEX NUT,3/8",NC  |
| 13   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT   |
| 14   | 21731    | 6    | CAPSCREW, 1/2" X 1-1/2",NC                                       |
| 15   | TF1040   | 1    | GUARD,CUTTERSHAFT  |
| 16   | 21399    | 2    | HEX NUT,3/4",ACME THRD   |
| 17   | TF4333A  | 2    | GROUND ROLLER ADJ BRKT   |
| 18   | 6T2294   | 8    | PLOW BOLT,1/2" X 2",NC   |
| 19   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK   |
| 20   | 21730    | 5    | CAPSCREW,1/2" X 1-1/4",NC  |
| 21   | TF4371   | 1    | SKID SHOE,L/PROFILE-OUTER  |
| 24   | 28738    | 1    | GROUND ROLLER,75"  |
| 25   | TF1045B  | 2    | GRND ROLLER STUB SHAFT   |
| 26   | 6T2330   | 8    | CAPSCREW, 7/16" X 1-1/2", SKT HD                                 |
| ---  | 06200347 | -    | KIT,STRING GUARD (ITEMS 27, 28 & 30)                             |
| 27   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9   |
| 28   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9   |
| 29   | TF1018   | 2    | BEARING,FLANGE,2-3/16"   |
| 30   | 31204    | 2    | STRING GUARD,HD  |
| ---  | TF1002A  | -    | CUTTERSHAFT,ASSY,75IN (STANDARD CUT) (ITEMS 31, 32, 33, 34 & 35) |
| ---- | TF1002B  | -    | CUTTERSHAFT,ASSY,75IN (SMOOTH CUT) (ITEMS 31, 32, 33, 34 & 35)   |
| 31   | TF1002   | 1    | CUTTERSHAFT,75",HD   |
| 32   | 30411    | 40   | KNIFE MOUNTING BOLT,FLAIL  |
| 33   | TF1020   | 40   | KNIFE MTG CLEVIS,FLAIL   |
| 34   | 33714    | 80   | KNIFE,FLAIL,STANDARD CUT   |
| 34A  | TF1019F  | 40   | KNIFE,FLAIL,SMOOTH CUT (NOT SHOWN)                               |
| 35   | 21677    | 40   | NYLOCK NUT,7/16",NC  |
| 36   | TF4365   | 1    | SKID SHOE,L/PROFILE-INNER  |
| 37   | TF1403   | 1    | FRONT TRASH GUARD  |
| 38   | 06530001 | 12   | CAPSCREW,SKT HD  |
| 39   | 06520027 | 2    | CAP,BEARING  |
| 40   | 06520029 | 2    | O-RING,2-3/4" X 3/32"  |
| 41   | 06520028 | 2    | BEARING,FLANGE,1-3/8"  |
| 42   | 6T2331   | 8    | CAPSCREW,7/16" X 1",SKT HD                                       |

COMMON TRIPLE

# EXTREME DUTY 75IN REAR FLAIL DRIVE ASSY



**NOTE:**

1. LOCATE AND FIT HITCH PER DRIVE ASSEMBLY PRIOR TO WELDING 3 POINT HITCH TO FLAIL BONNET
2. REVERSE ROTATION ASSEMBLY - PULLY HARDWARE (ITEMS 22,24,25 & 26) SWAP ENDS WITH TENSIONER HARDWARE (ITEMS - 19,38,39,40,41,42 & 43) ON IDLER ARM ITEM - 37

| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | -----    | 1    | BONNET *REFER TO CUTTER ASSY  |
| 2    | 31279A   | 1    | HITCH,3-POINT                 |
| 3    | 40454    | 2    | SPACER                        |
| 4    | 27508    | 4    | CAPSCREW,8MM X 20MM(1.25)     |
| 5    | 6T2619   | 8    | LOCKWASHER,8MM                |
| 6    | 28447E   | 1    | GUARD,OUTPUT SHAFT            |
| 7    | 28505    | 1    | GEARBOX,REAR FLAIL,COMER T22A |
| 8    | 06520181 | 1    | GUARD,PTO,GRBX                |
| 9    | 34948    | 4    | FLATWASHER,8MM                |
| 10   | 27507    | 4    | CAPSCREW,8MM X 15MM(1.25)     |
| 11   | 28914    | 1    | COUPLING,6 SPLINE             |

COMMON TRIPLE

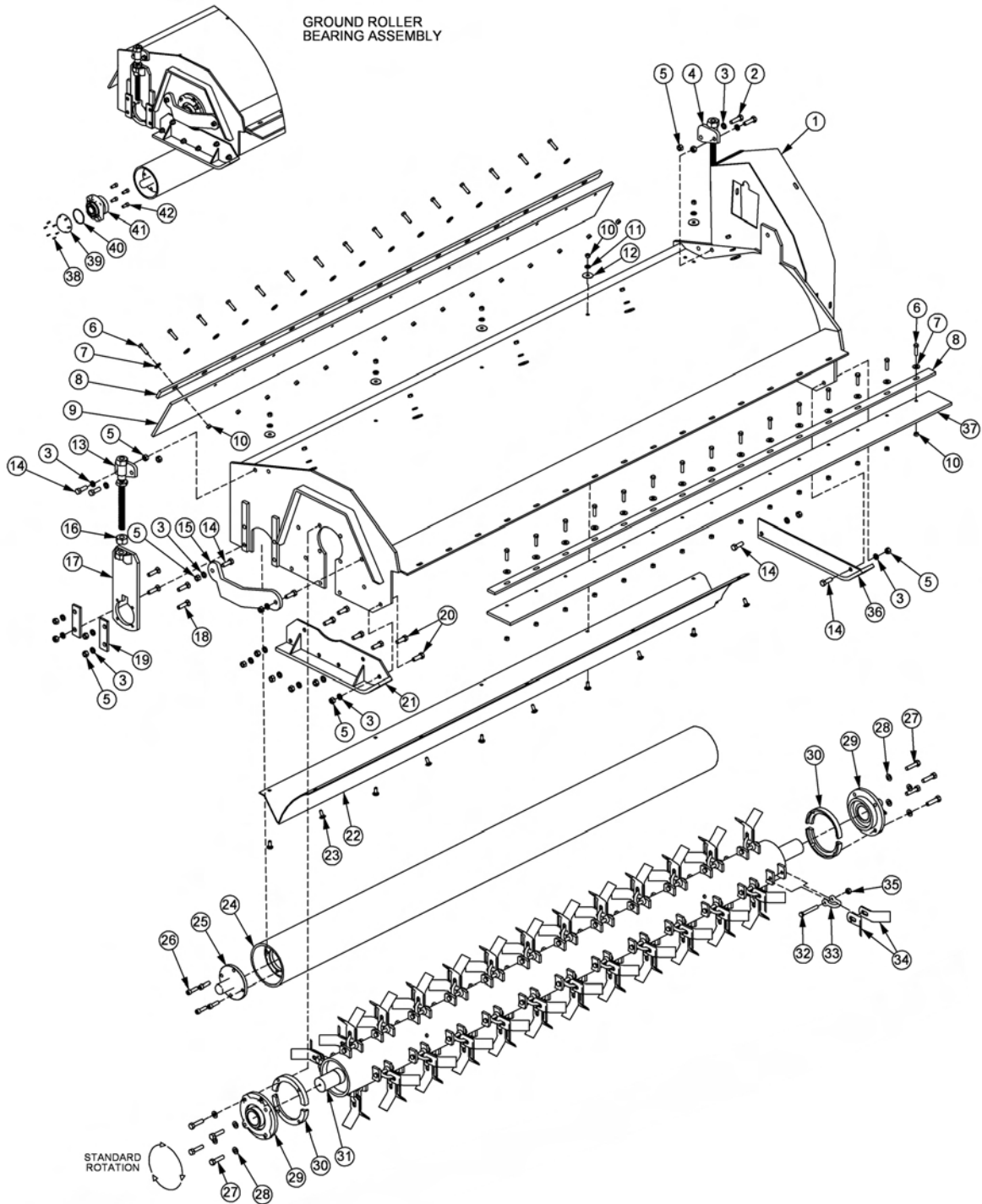
## EXTREME DUTY 75IN REAR FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 12   | 6T3209   | 1    | GREASE ZERK,1/4" DRIVE            |
| 13   | 28414A   | 1    | OUTPUT EXTENSION SHAFT,75"RCM     |
| ---  | 28416B   | -    | OUTPUT EXTENSION SHAFT,75"OFF     |
| 14   | 30162    | 4    | CAPSCREW,SKT HD,8MM X 20MM(1.25)  |
| 15   | 28422A   | 1    | SHAFT GRD,HD,75"RCM               |
| ---  | 28424B   | -    | SHAFT GRD,HD,75"OFF               |
| 16   | 21725    | 1    | HEX NUT,1/2",NC                   |
| 17   | 21990    | 5    | LOCKWASHER,1/2"                   |
| 18   | 22018    | 1    | FLATWASHER,1/2",WIDE              |
| 19   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC         |
| 20   | 28571    | 1    | BEARING,FLANGE,1-1/4"             |
| 21   | 21730    | 4    | CAPSCREW,1/2" X 1-1/4",NC         |
| 22   | 28399    | 1    | CAPSCREW,20MM X 80MM(2.5),GR10.9  |
| 23   | 6T3004   | 1    | R-CLIP,HAIRPIN COTTER,3/16"       |
| 24   | 24881    | 1    | LOCKWASHER,20MM                   |
| 25   | 31295    | 1    | SHEAVE,IDLER ASSY,6.3"            |
| 26   | 31740    | 1    | NYLOCK NUT,20MM(2.5)              |
| 27   | TF3043   | 1    | SHEAVE,7.5"                       |
| 28   | 30049    | 2    | BUSHING,QD,SK 1-1/4",1/4" KEY     |
| 29   | 28572    | 1    | KEY,1/4"SQ X 2"                   |
| 30   | TF3023   | 2    | V-BELT(630)                       |
| 31   | 31286A   | 1    | SHIELD,BELT                       |
| 32   | 21988    | 4    | LOCKWASHER,3/8"                   |
| 33   | 21630    | 4    | CAPSCREW,3/8" X 1",NC             |
| 34   | TF3011   | 1    | BUSHING,QD,SK 2-3/16"             |
| 35   | 28570    | 1    | SHEAVE,9.0"                       |
| 36   | TF3605   | 1    | PIN,IDLER ARM                     |
| 37   | TF1180   | 1    | IDLER ARM                         |
| 38   | 6T2418   | 1    | HEX NUT,1/2",NC,GR8(STOVER)       |
| 39   | TF3610   | 1    | BUSHING,IDLER                     |
| 40   | PT3611A  | 1    | CLEVIS                            |
| 41   | 32482    | 1    | ROD,THREADED,1/2-20,NF,12-1/2"    |
| 42   | TF3620A  | 1    | SPRING,TENSIONER                  |
| 43   | 27938    | 1    | BUSHING,MACH,14GA                 |
| 44   | 21700    | 3    | HEX NUT,1/2",NF                   |
| 45   | -----    | 1    | CUTTERSHAFT *REFER TO CUTTER ASSY |
| 46   | 6T2625   | 4    | LOCKWASHER,16MM                   |
| 47   | 22421    | 4    | CAPSCREW,16MM X 40MM(2.0),GR10.9  |
| 48   | TF1143   | 3    | LYNCH PIN                         |
| 49   | TF1120   | 2    | PIN,CAPPED                        |
| 50   | TB1036   | 1    | PIN                               |

COMMON TRIPLE

# EXTREME DUTY 90IN REAR FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| ---  | 33002    | -    | REAR FLAIL ASSY,90IN      |
| 1    | 22044J   | 1    | BONNET,90",HD             |
| 2    | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC |
| 3    | 21990    | 22   | LOCKWASHER,1/2"           |

COMMON TRIPLE



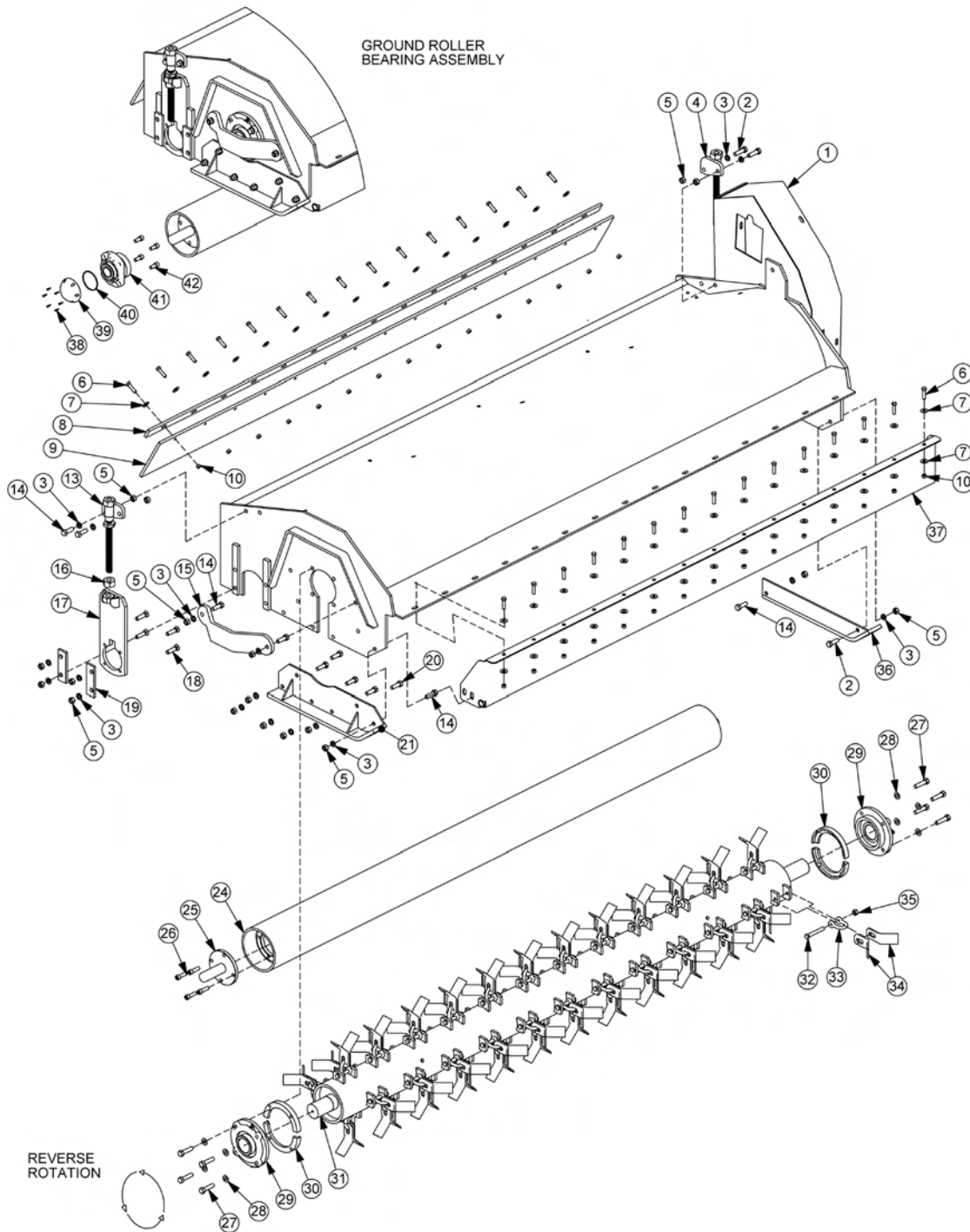
## EXTREME DUTY 90IN REAR FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                          |
|------|----------|------|--------------------------------------|
| 4    | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF             |
| 5    | 21725    | 22   | HEX NUT,1/2",NC                      |
| 6    | 21632    | 30   | CAPSCREW,3/8" X 1-1/2",NC            |
| 7    | 22016    | 30   | FLATWASHER,3/8"                      |
| 8    | TF1135   | 2    | BAR,FLAP,TSF/TRF,90"                 |
| 9    | TF1116   | 1    | FLAP,DEFLECTOR,TSF/TRF,90"           |
| 10   | 21625    | 40   | HEX NUT,3/8",NC                      |
| 11   | 21988    | 10   | LOCKWASHER,3/8"                      |
| 12   | 6T2615   | 10   | WASHER,FENDER,3/8"                   |
| 13   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT             |
| 14   | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC            |
| 15   | TF1040   | 1    | GUARD,CUTTERSHAFT                    |
| 16   | 21399    | 2    | HEX NUT,3/4",ACME THRD               |
| 17   | TF4333A  | 2    | GROUND ROLLER ADJ BRKT               |
| 18   | 6T2294   | 8    | PLOW BOLT,1/2" X 2",NC               |
| 19   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK             |
| 20   | 21730    | 6    | CAPSCREW,1/2" X 1-1/4",NC            |
| 21   | TF4371   | 1    | SKID SHOE,L/PROFILE-OUTER            |
| 22   | TF1502A  | 1    | BAFFLE,FLAIL,90",HD                  |
| 23   | 6T2283   | 10   | CARRIAGE BOLT,3/8" X 1",NC           |
| 24   | 27972A   | 1    | GROUND ROLLER,90"                    |
| 25   | TF1045B  | 2    | GRND ROLLER STUB SHAFT               |
| 26   | 6T2330   | 8    | CAPSCREW, 7/16" X 1-1/2", SKT HD     |
| ---  | 06200347 | -    | KIT,STRING GUARD (ITEMS 27, 28 & 30) |
| 27   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9             |
| 28   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9               |
| 29   | TF1018   | 2    | BEARING,FLANGE,2-3/16"               |
| 30   | 31204    | 2    | STRING GUARD,HD                      |
| ---  | TF1102A  | -    | CUTTERSHAFT ASSY,90IN                |
| 31   | TF1102   | 1    | CUTTERSHAFT,90"                      |
| 32   | 30411    | 48   | KNIFE MOUNTING BOLT,FLAIL            |
| 33   | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL               |
| 34   | 33714    | 96   | KNIFE,FLAIL,STANDARD CUT             |
| 35   | 21677    | 48   | NYLOCK NUT,7/16",NC                  |
| 36   | TF4365   | 1    | SKID SHOE,L/PROFILE-INNER            |
| 37   | 06520243 | 1    | FLAP,FRONT,90"                       |
| 38   | 06530001 | 12   | CAPSCREW,SKT HD                      |
| 39   | 06520027 | 2    | CAP,BEARING                          |
| 40   | 06520029 | 2    | O-RING,2-3/4" X 3/32"                |
| 41   | 06520028 | 2    | BEARING,FLANGE,1-3/8"                |
| 42   | 6T2331   | 8    | CAPSCREW,7/16" X 1",SKT HD           |

COMMON TRIPLE

# EXTREME DUTY 90IN REAR FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| ---  | 33009    | -    | 90IN REAR FLAIL ASSY (STANDARD CUT) |
| ---- | 33011    | -    | 90IN REAR FLAIL ASSY (SMOOTH CUT)   |
| 1    | 22044J   | 1    | BONNET,90"                          |
| 2    | 21732    | 3    | CAPSCREW,1/2" X 1-3/4",NC           |

COMMON TRIPLE

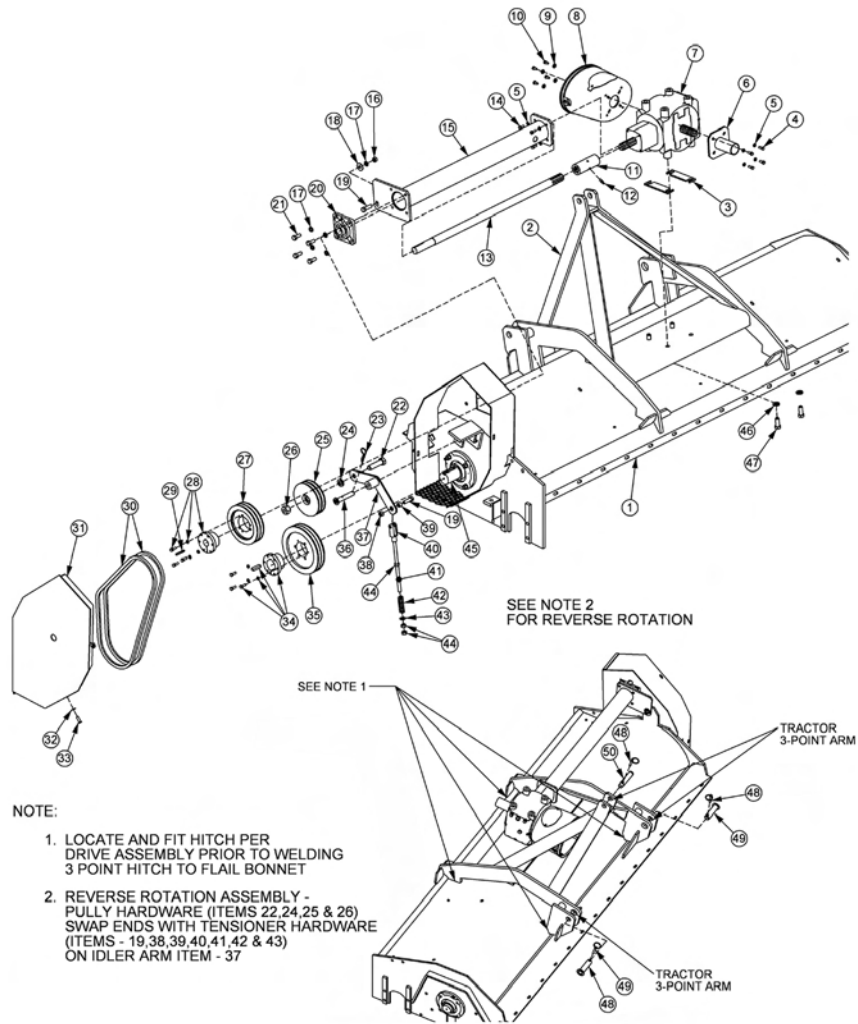
## EXTREME DUTY 90IN REAR FLAIL - REV ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION   |
|------|----------|------|---|
| 3    | 21990    | 22   | LOCKWASHER,1/2"   |
| 4    | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF                                    |
| 5    | 21725    | 22   | HEX NUT,1/2",NC   |
| 6    | 21632    | 30   | CAPSCREW,3/8" X 1-1/2",NC                                   |
| 7    | 22016    | 45   | FLATWASHER,3/8"   |
| 8    | TF1135   | 1    | BAR,FLAP,TSF/TRF,90"  |
| 9    | TF1116   | 1    | FLAP,DEFLECTOR,TSF/TRF,90"                                  |
| 10   | 21625    | 40   | HEX NUT,3/8",NC   |
| 13   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT                                    |
| 14   | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC                                   |
| 15   | TF1040   | 1    | GUARD,CUTTERSHAFT   |
| 16   | 21399    | 2    | HEX NUT,3/4",ACME THRD                                      |
| 17   | TF4333A  | 2    | GROUND ROLLER ADJ BRKT                                      |
| 18   | 6T2294   | 8    | PLOW BOLT,1/2" X 2",NC                                      |
| 19   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK                                    |
| 20   | 21730    | 5    | CAPSCREW,1/2" X 1-1/4",NC                                   |
| 21   | TF4371   | 1    | SKID SHOE,L/PROFILE-OUTER                                   |
| 24   | 27972A   | 1    | GROUND ROLLER,90"   |
| 25   | TF1045B  | 2    | GRND ROLLER STUB SHAFT                                      |
| 26   | 6T2330   | 8    | CAPSCREW,7/16" X 1-1/2", SKT HD                             |
| ---  | 06200347 | -    | KIT,STRING GUARD (ITEMS 27, 28 & 30)                        |
| 27   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9                                    |
| 28   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9                                      |
| 29   | TF1018   | 2    | BEARING,FLANGE,2-3/16"                                      |
| 30   | 31204    | 2    | STRING GUARD  |
| ---  | TF1102A  | -    | CUTTERSHAFT ASSY (STANDARD CUT) (ITEMS 31, 32, 33, 34 & 35) |
| ---- | TF1102B  | -    | CUTTERSHAFT ASSY (SMOOTH CUT) (ITEMS 31, 32, 33, 34A & 35)  |
| 31   | TF1102   | 1    | CUTTERSHAFT,90"   |
| 32   | 30411    | 48   | KNIFE MOUNTING BOLT,FLAIL                                   |
| 33   | TF1020   | 48   | KNIFE MTG CLEVIS,FLAIL                                      |
| 34   | 33714    | 96   | KNIFE,FLAIL,STANDARD CUT                                    |
| 34A  | TF1019F  | 48   | KNIFE,FLAIL,SMOOTH CUT (NOT SHOWN)                          |
| 35   | 21677    | 48   | NYLOCK NUT,7/16",NC   |
| 36   | TF4365   | 1    | SKID SHOE,L/PROFILE-INNER                                   |
| 37   | TF1503   | 1    | FRONT TRASH GUARD   |
| 38   | 06530001 | 12   | CAPSCREW,SKT HD   |
| 39   | 06520027 | 2    | CAP,BEARING   |
| 40   | 06520029 | 2    | O-RING,2-3/4" X 3/32"                                       |
| 41   | 06520028 | 2    | BEARING,FLANGE,1-3/8"                                       |
| 42   | 6T2331   | 8    | CAPSCREW,7/16" X 1",SKT HD                                  |

COMMON TRIPLE

## EXTREME DUTY 90IN REAR FLAIL DRIVE ASSY



**NOTE:**

1. LOCATE AND FIT HITCH PER DRIVE ASSEMBLY PRIOR TO WELDING 3 POINT HITCH TO FLAIL BONNET
2. REVERSE ROTATION ASSEMBLY - PULLY HARDWARE (ITEMS 22,24,25 & 26) SWAP ENDS WITH TENSIONER HARDWARE (ITEMS - 19,38,39,40,41,42 & 43) ON IDLER ARM ITEM - 37

| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | -----    | 1    | BONNET *REFER TO CUTTER ASSY  |
| 2    | 31279A   | 1    | HITCH,3-POINT                 |
| 3    | 40454    | 2    | SPACER                        |
| 4    | 27508    | 4    | CAPSCREW,8MM X 20MM(1.25)     |
| 5    | 6T2619   | 8    | LOCKWASHER,8MM                |
| 6    | 28447E   | 1    | GUARD,OUTPUT SHAFT            |
| 7    | 28505    | 1    | GEARBOX,REAR FLAIL,COMER T22A |
| 8    | 06520181 | 1    | GUARD,PTO,GRBX                |
| 9    | 34948    | 4    | FLATWASHER,8MM                |
| 10   | 27507    | 4    | CAPSCREW,8MM X 15MM(1.25)     |
| 11   | 28914    | 1    | COUPLING,6 SPLINE             |
| 12   | 6T3209   | 1    | GREASE ZERK,1/4" DRIVE        |
| 13   | 28415A   | 1    | OUTPUT EXTENSION SHAFT,90"RCM |
| ---  | 28416B   | -    | OUTPUT EXTENSION SHAFT,90"R6F |
| ---- | 28420B   | -    | OUTPUT EXTENSION SHAFT,90"OFF |

COMMON TRIPLE

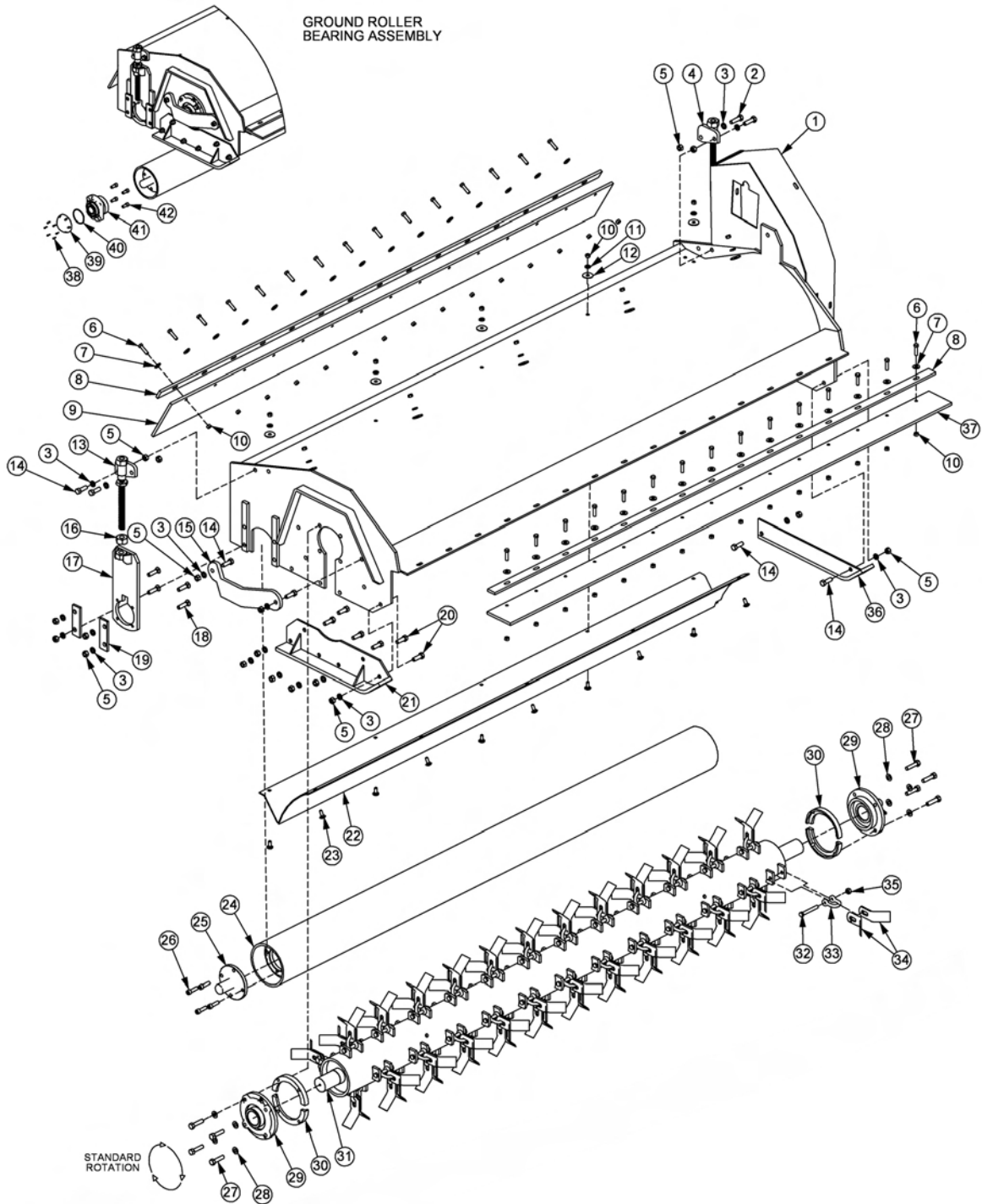
## EXTREME DUTY 90IN REAR FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 14   | 30162    | 4    | CAPSCREW,SKT HD,8MM X 20MM(1.25)  |
| 15   | 28423A   | 1    | SHAFT GRD,HD,90"RCM               |
| ---  | 28424B   | -    | SHAFT GRD,HD,90"R6F               |
| ---- | 28428B   | -    | SHAFT GRD,HD,90"OFF               |
| 16   | 21725    | 1    | HEX NUT,1/2",NC                   |
| 17   | 21990    | 5    | LOCKWASHER,1/2"                   |
| 18   | 22018    | 1    | FLATWASHER,1/2",WIDE              |
| 19   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC         |
| 20   | 28571    | 1    | BEARING,FLANGE,1-1/4"             |
| 21   | 21730    | 4    | CAPSCREW,1/2" X 1-1/4",NC         |
| 22   | 28399    | 1    | CAPSCREW,20MM X 80MM(2.5),GR10.9  |
| 23   | 6T3004   | 1    | R-CLIP,HAIRPIN COTTER,3/16"       |
| 24   | 24881    | 1    | LOCKWASHER,20MM                   |
| 25   | 31295    | 1    | SHEAVE,IDLER ASSY,6.3"            |
| 26   | 31740    | 1    | NYLOCK NUT,20MM(2.5)              |
| 27   | TF3043   | 1    | SHEAVE,7.5"                       |
| 28   | 30049    | 2    | BUSHING,QD,SK 1-1/4",1/4" KEY     |
| 29   | 28572    | 1    | KEY,1/4"SQ X 2"                   |
| 30   | TF3023   | 2    | V-BELT(630)                       |
| 31   | 31286A   | 1    | SHIELD,BELT                       |
| 32   | 21988    | 4    | LOCKWASHER,3/8"                   |
| 33   | 21630    | 4    | CAPSCREW,3/8" X 1",NC             |
| 34   | TF3011   | 1    | BUSHING,QD,SK 2-3/16"             |
| 35   | 28570    | 1    | SHEAVE,9.0"                       |
| 36   | TF3605   | 1    | PIN,IDLER ARM                     |
| 37   | TF1180   | 1    | IDLER ARM                         |
| 38   | 6T2418   | 1    | HEX NUT,1/2",NC,GR8(STOVER)       |
| 39   | TF3610   | 1    | BUSHING,IDLER                     |
| 40   | PT3611A  | 1    | CLEVIS                            |
| 41   | 32482    | 1    | ROD,THREADED,1/2-20,NF,12-1/2"    |
| 42   | TF3620A  | 1    | SPRING,TENSIONER                  |
| 43   | 27938    | 1    | BUSHING,MACH,14GA                 |
| 44   | 21700    | 3    | HEX NUT,1/2",NF                   |
| 45   | -----    | 1    | CUTTERSHAFT *REFER TO CUTTER ASSY |
| 46   | 6T2625   | 4    | LOCKWASHER,16MM                   |
| 47   | 22421    | 4    | CAPSCREW,16MM X 40MM(2.0),GR10.9  |
| 48   | TF1143   | 3    | LYNCH PIN                         |
| 49   | TF1120   | 2    | PIN,CAPPED                        |
| 50   | TB1036   | 1    | PIN                               |

COMMON TRIPLE

# EXTREME DUTY 96IN REAR FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| ---  | 33005    | -    | REAR FLAIL ASSY,96IN      |
| 1    | 22045J   | 1    | BONNET,96"                |
| 2    | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC |
| 3    | 21990    | 22   | LOCKWASHER,1/2"           |

COMMON TRIPLE

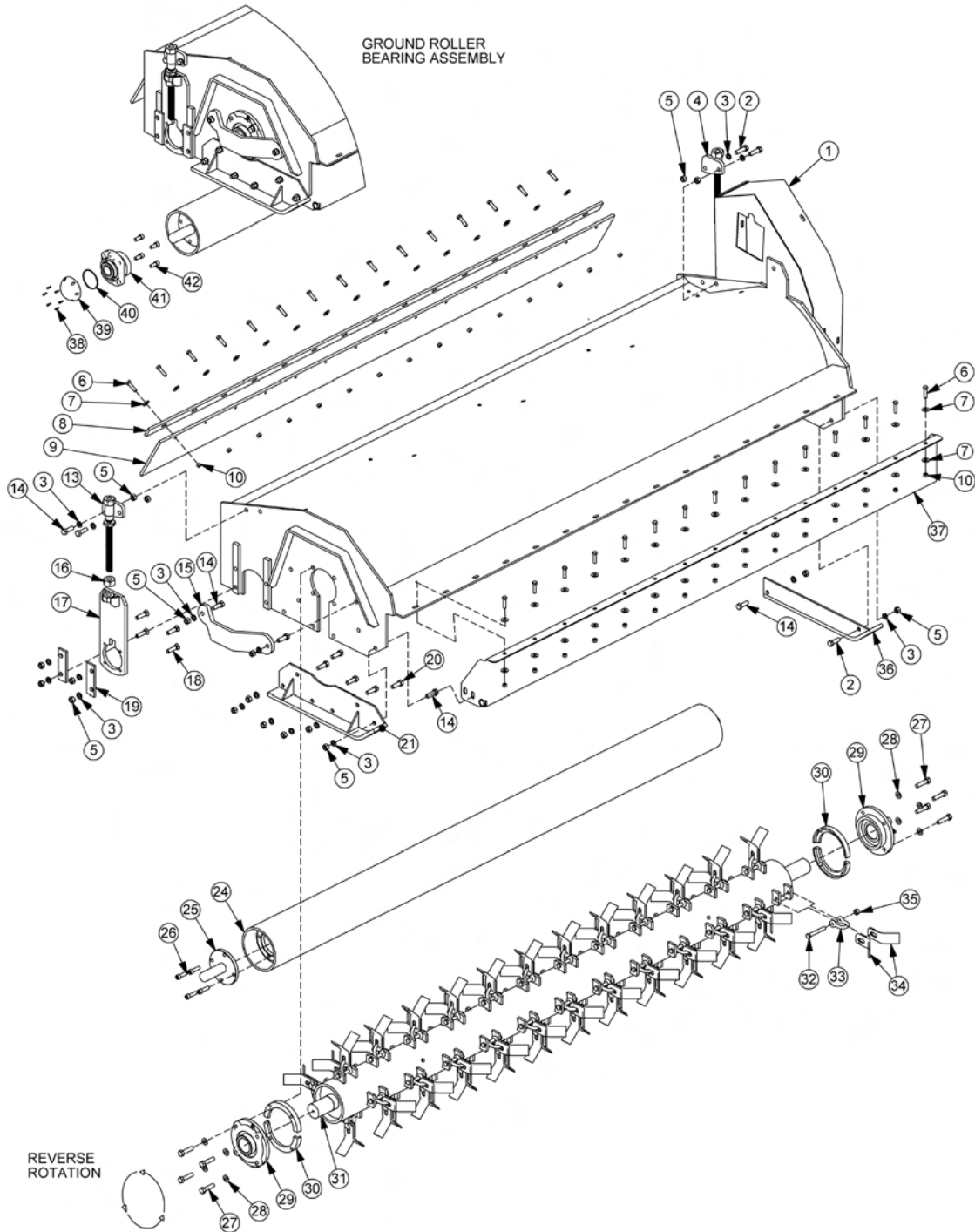
**EXTREME DUTY 96IN REAR FLAIL - STD ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>                   |
|-------------|-----------------|-------------|--------------------------------------|
| 4           | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF             |
| 5           | 21725           | 22          | HEX NUT,1/2",NC                      |
| 6           | 21632           | 34          | CAPSCREW,3/8" X 1-1/2",NC            |
| 7           | 22016           | 34          | FLATWASHER,3/8"                      |
| 8           | TF1606          | 2           | BAR,FLAP,TSF/TRF,96"                 |
| 9           | TF1605          | 1           | FLAP,DEFLECTOR,TSF/TRF,96"           |
| 10          | 21625           | 44          | HEX NUT,3/8",NC                      |
| 11          | 21988           | 10          | LOCKWASHER,3/8"                      |
| 12          | 6T2615          | 10          | WASHER,FENDER,3/8"                   |
| 13          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT             |
| 14          | 21731           | 6           | CAPSCREW,1/2" X 1-1/2",NC            |
| 15          | TF1040          | 1           | GUARD,CUTTERSHAFT                    |
| 16          | 21399           | 2           | HEX NUT,3/4",ACME THRD               |
| 17          | TF4333A         | 2           | GROUND ROLLER ADJ BRKT               |
| 18          | 6T2294          | 8           | PLOW BOLT,1/2" X 2",NC               |
| 19          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK             |
| 20          | 21730           | 6           | CAPSCREW,1/2" X 1-1/4",NC            |
| 21          | TF4371          | 1           | SKID SHOE,L/PROFILE-OUTER            |
| 22          | TF1607          | 1           | BAFFLE,FLAIL,96",HD                  |
| 23          | 6T2283          | 10          | CARRIAGE BOLT,3/8" X 1",NC           |
| 24          | TF1603          | 1           | GROUND ROLLER,96"                    |
| 25          | TF1045B         | 2           | GRND ROLLER STUB SHAFT               |
| 26          | 6T2330          | 8           | CAPSCREW,7/16" X 1-1/2", SKT HD      |
| ---         | 06200347        | -           | KIT,STRING GUARD (ITEMS 27, 28 & 30) |
| 27          | 06530217        | 8           | CAPSCREW,1/2" X 2",NC,L9             |
| 28          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9               |
| 29          | TF1018          | 2           | BEARING,FLANGE,2-3/16"               |
| 30          | 31204           | 2           | STRING GUARD,HD                      |
| ---         | TF1602A         | -           | CUTTERSHAFT ASSY,96IN                |
| 31          | TF1602B         | 1           | CUTTERSHAFT,96"                      |
| 32          | 30411           | 52          | KNIFE MOUNTING BOLT,FLAIL            |
| 33          | TF1020          | 52          | KNIFE MTG CLEVIS,FLAIL               |
| 34          | 33714           | 104         | KNIFE,FLAIL,STANDARD CUT             |
| 35          | 21677           | 52          | NYLOCK NUT,7/16",NC                  |
| 36          | TF4365          | 1           | SKID SHOE,L/PROFILE-INNER            |
| 37          | 06520244        | 1           | FLAP,FRONT,96"                       |
| 38          | 06530001        | 12          | CAPSCREW,SKT HD                      |
| 39          | 06520027        | 2           | CAP,BEARING                          |
| 40          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                |
| 41          | 06520028        | 2           | BEARING,FLANGE,1-3/8"                |
| 42          | 6T2331          | 8           | CAPSCREW,7/16" X 1",SKT HD           |

COMMON TRIPLE

# EXTREME DUTY 96IN REAR FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION                         |
|------|----------|------|-------------------------------------|
| ---  | 33007    | -    | 96IN REAR FLAIL ASSY (STANDARD CUT) |
| ---- | 33013    | -    | 96IN REAR FLAIL ASSY (SMOOTH CUT)   |
| 1    | 22045J   | 1    | BONNET,96"                          |
| 2    | 21732    | 3    | CAPSCREW,1/2" X 1-3/4",NC           |

COMMON TRIPLE



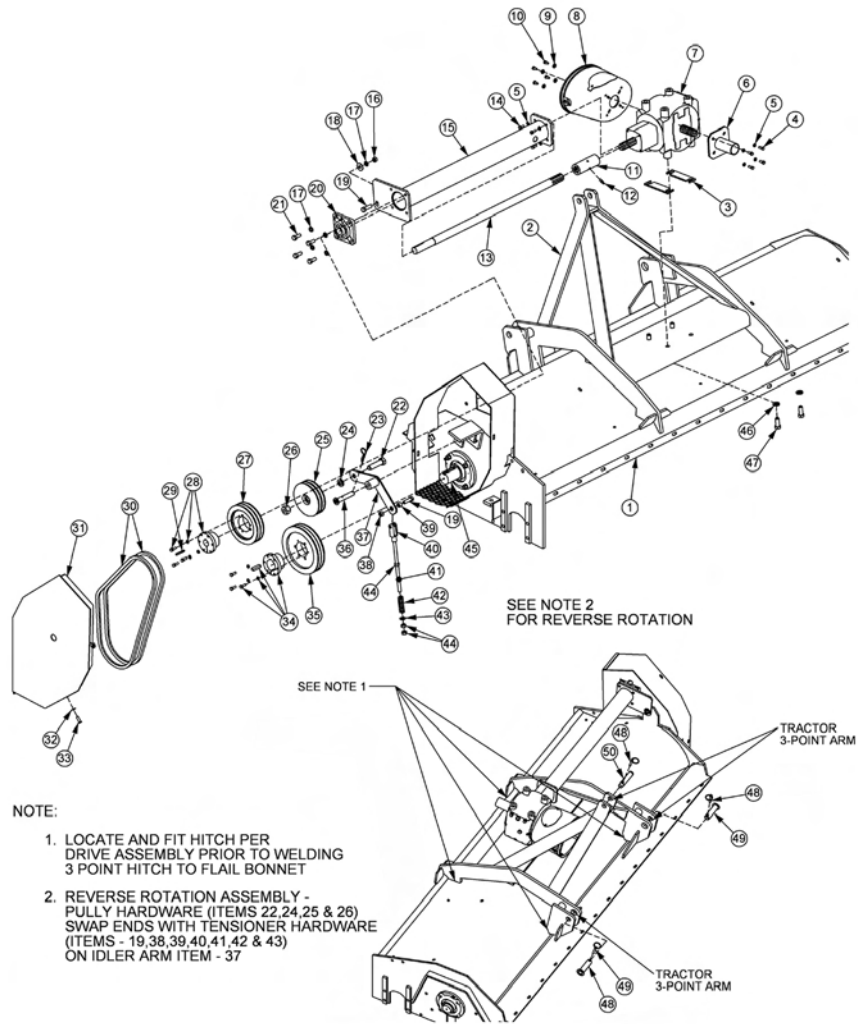
**EXTREME DUTY 96IN REAR FLAIL - REV ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>  |
|-------------|-----------------|-------------|---|
| 3           | 21990           | 22          | LOCKWASHER,1/2"   |
| 4           | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF                                    |
| 5           | 21725           | 22          | HEX NUT,1/2",NC   |
| 6           | 21632           | 34          | CAPSCREW,3/8" X 1-1/2",NC                                   |
| 7           | 22016           | 51          | FLATWASHER,3/8"   |
| 8           | TF1606          | 1           | BAR,FLAP,TSF/TRF,96"  |
| 9           | TF1605          | 1           | FLAP,DEFLECTOR,TSF/TRF,96"                                  |
| 10          | 21625           | 44          | HEX NUT,3/8",NC   |
| 13          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT                                    |
| 14          | 21731           | 6           | CAPSCREW,1/2" X 1-1/2",NC                                   |
| 15          | TF1040          | 1           | GUARD,CUTTERSHAFT   |
| 16          | 21399           | 2           | HEX NUT,3/4",ACME THRD                                      |
| 17          | TF4333A         | 2           | GROUND ROLLER ADJ BRKT                                      |
| 18          | 6T2294          | 8           | PLOW BOLT,1/2" X 2",NC                                      |
| 19          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK                                    |
| 20          | 21730           | 5           | CAPSCREW,1/2" X 1-1/4",NC                                   |
| 21          | TF4371          | 1           | SKID SHOE,L/PROFILE-OUTER                                   |
| 24          | TF1603          | 1           | GROUND ROLLER,96"   |
| 25          | TF1045B         | 2           | GRND ROLLER STUB SHAFT                                      |
| 26          | 6T2330          | 8           | CAPSCREW,7/16" X 1-1/2", SKT HD                             |
| ---         | 06200347        | -           | KIT,STRING GUARD (ITEMS 37, 38 & 30)                        |
| 27          | 06530217        | 8           | CAPSCREW,1/2" X 2",NC,L9                                    |
| 28          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9                                      |
| 29          | TF1018          | 2           | BEARING,FLANGE,2-3/16"                                      |
| 30          | 31204           | 2           | STRING GUARD,HD   |
| ---         | TF1602A         | -           | CUTTERSHAFT ASSY (STANDARD CUT) (ITEMS 31, 32, 33, 34 & 35) |
| ----        | TF1602B         | -           | CUTTERSHAFT ASSY (SMOOTH CUT) (ITEMS 31, 32, 33, 34A & 35)  |
| 31          | TF1602B         | 1           | CUTTERSHAFT,96"   |
| 32          | 30411           | 52          | KNIFE MOUNTING BOLT,FLAIL                                   |
| 33          | TF1020          | 52          | KNIFE MTG CLEVIS,FLAIL                                      |
| 34          | 33714           | 104         | KNIFE,FLAIL,STANDARD CUT                                    |
| 34A         | TF1019F         | 52          | KNIFE,FLAIL,SMOOTH CUT (NOT SHOWN)                          |
| 35          | 21677           | 52          | NYLOCK NUT,7/16",NC   |
| 36          | TF4365          | 1           | SKID SHOE,L/PROFILE-INNER                                   |
| 37          | TF1608          | 1           | FLAP TRASH GUARD  |
| 38          | 06530001        | 12          | CAPSCREW,SKT HD   |
| 39          | 06520027        | 2           | CAP,BEARING   |
| 40          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                                       |
| 41          | 06520028        | 2           | BEARING,FLANGE,1-3/8"                                       |
| 42          | 6T2331          | 8           | CAPSCREW,7/16" X 1",SKT HD                                  |

COMMON TRIPLE

# EXTREME DUTY 96IN REAR FLAIL DRIVE ASSY



**NOTE:**

1. LOCATE AND FIT HITCH PER DRIVE ASSEMBLY PRIOR TO WELDING 3 POINT HITCH TO FLAIL BONNET
2. REVERSE ROTATION ASSEMBLY - PULLY HARDWARE (ITEMS 22,24,25 & 26) SWAP ENDS WITH TENSIONER HARDWARE (ITEMS - 19,38,39,40,41,42 & 43) ON IDLER ARM ITEM - 37

| ITEM | PART NO. | QTY. | DESCRIPTION                   |
|------|----------|------|-------------------------------|
| 1    | -----    | 1    | BONNET *REFER TO CUTTER ASSY  |
| 2    | 31279A   | 1    | HITCH,3-POINT                 |
| 3    | 40454    | 2    | SPACER                        |
| 4    | 27508    | 4    | CAPSCREW,8MM X 20MM(1.25)     |
| 5    | 6T2619   | 8    | LOCKWASHER,8MM                |
| 6    | 28447E   | 1    | GUARD,OUTPUT SHAFT            |
| 7    | 28505    | 1    | GEARBOX,REAR FLAIL,COMER T22A |
| 8    | 06520181 | 1    | GUARD,PTO,GRBX                |
| 9    | 34948    | 4    | FLATWASHER,8MM                |
| 10   | 27507    | 4    | CAPSCREW,8MM X 15MM(1.25)     |
| 11   | 28914    | 1    | COUPLING,6 SPLINE             |
| 12   | 6T3209   | 1    | GREASE ZERK,1/4" DRIVE        |
| 13   | 28418A   | 1    | OUTPUT EXTENSION SHAFT,96"RCM |
| ---  | 28420B   | -    | OUTPUT EXTENSION SHAFT,96"R6F |
|      | 28416B   | -    | OUTPUT EXTENSION SHAFT,96"RXF |

COMMON TRIPLE

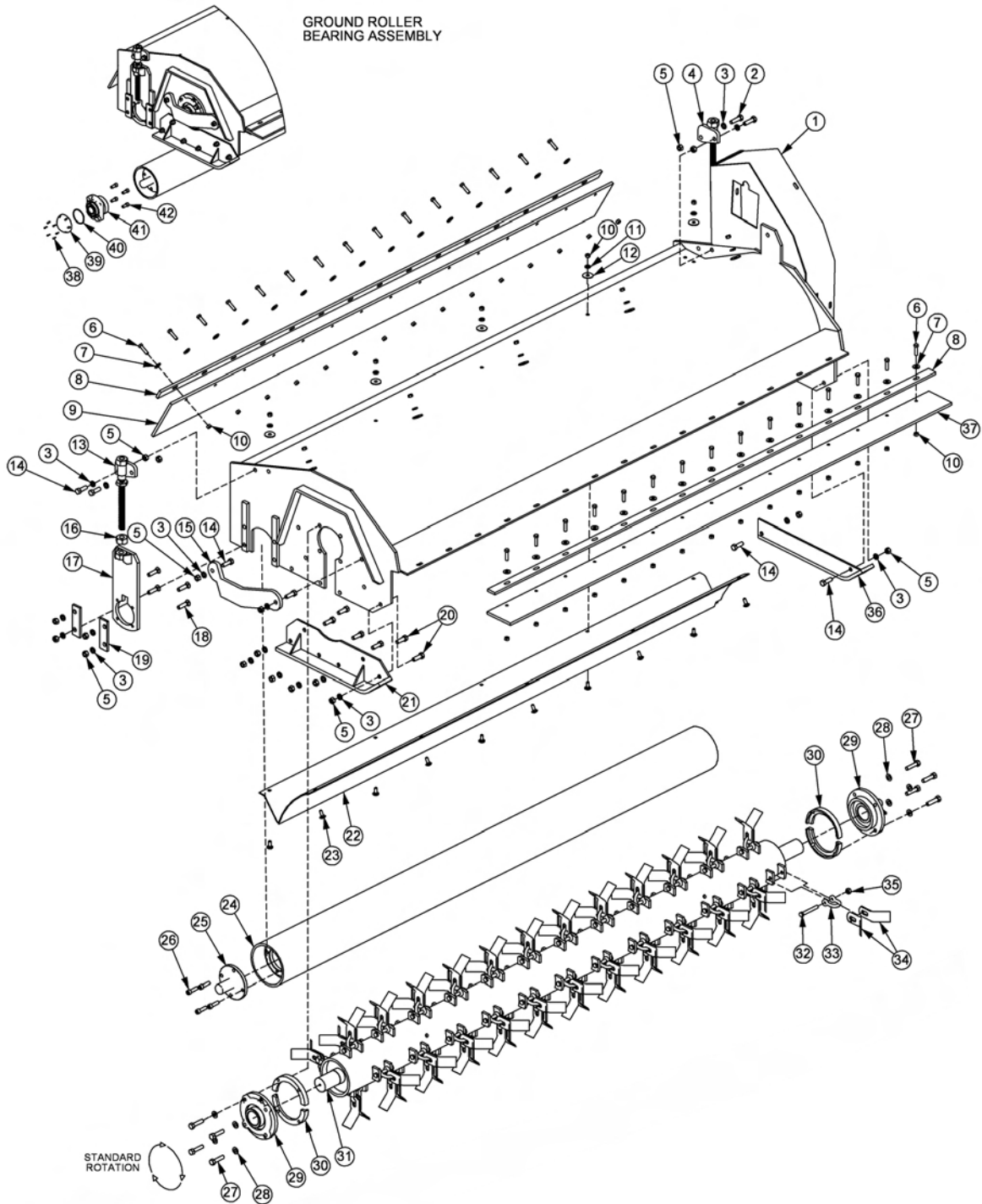
## EXTREME DUTY 96IN REAR FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
|      | 28419B   | -    | OUTPUT EXTENSION SHAFT,96"OFF     |
| 14   | 30162    | 4    | CAPSCREW,SKT HD,8MMX20MM(1.25)    |
| 15   | 28426A   | 1    | SHAFT GRD,HD,96"RCM               |
| ---  | 28428B   | -    | SHAFT GRD,HD,96"R6F               |
|      | 28424B   | -    | SHAFT GRD,HD,96"RXF               |
|      | 28427B   | -    | SHAFT GRD,HD,96"OFF               |
| 16   | 21725    | 1    | HEX NUT,1/2",NC                   |
| 17   | 21990    | 5    | LOCKWASHER,1/2"                   |
| 18   | 22018    | 1    | FLATWASHER,1/2",WIDE              |
| 19   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC         |
| 20   | 28571    | 1    | BEARING,FLANGE,1-1/4"             |
| 21   | 21730    | 4    | CAPSCREW,1/2" X 1-1/4",NC         |
| 22   | 28399    | 1    | CAPSCREW,20MM X 80MM(2.5),GR10.9  |
| 23   | 6T3004   | 1    | R-CLIP,HAIRPIN COTTER,3/16"       |
| 24   | 24881    | 1    | LOCKWASHER,20MM                   |
| 25   | 31295    | 1    | SHEAVE,IDLER ASSY,6.3"            |
| 26   | 31740    | 1    | NYLOCK NUT,20MM(2.5)              |
| 27   | TF3043   | 1    | SHEAVE,7.5"                       |
| 28   | 30049    | 2    | BUSHING,QD,SK 1-1/4",1/4" KEY     |
| 29   | 28572    | 1    | KEY,1/4"SQ X 2"                   |
| 30   | TF3023   | 2    | V-BELT(630)                       |
| 31   | 31286A   | 1    | SHIELD,BELT                       |
| 32   | 21988    | 4    | LOCKWASHER,3/8"                   |
| 33   | 21630    | 4    | CAPSCREW,3/8" X 1",NC             |
| 34   | TF3011   | 1    | BUSHING,QD,SK 2-3/16"             |
| 35   | 28570    | 1    | SHEAVE,9.0"                       |
| 36   | TF3605   | 1    | PIN,IDLER ARM                     |
| 37   | TF1180   | 1    | IDLER ARM                         |
| 38   | 6T2418   | 1    | HEX NUT,1/2",NC,GR8(STOVER)       |
| 39   | TF3610   | 1    | BUSHING,IDLER                     |
| 40   | PT3611A  | 1    | CLEVIS                            |
| 41   | 32482    | 1    | ROD,THREADED,1/2-20,NF,12-1/2"    |
| 42   | TF3620A  | 1    | SPRING,TENSIONER                  |
| 43   | 27938    | 1    | BUSHING,MACH,14GA                 |
| 44   | 21700    | 3    | HEX NUT,1/2",NF                   |
| 45   | -----    | 1    | CUTTERSHAFT *REFER TO CUTTER ASSY |
| 46   | 6T2625   | 4    | LOCKWASHER,16MM                   |
| 47   | 22421    | 4    | CAPSCREW,16MM X 40MM(2.0),GR10.9  |
| 48   | TF1143   | 3    | LYNCH PIN                         |
| 49   | TF1120   | 2    | PIN,CAPPED                        |
| 50   | TB1036   | 1    | PIN                               |

COMMON TRIPLE

# EXTREME DUTY 102IN REAR FLAIL - STD ROT



| ITEM | PART NO. | QTY. | DESCRIPTION               |
|------|----------|------|---------------------------|
| ---  | 33027    | -    | REAR FLAIL ASSY,102IN     |
| 1    | 22046J   | 1    | BONNET,102"               |
| 2    | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC |
| 3    | 21990    | 22   | LOCKWASHER,1/2"           |

COMMON TRIPLE

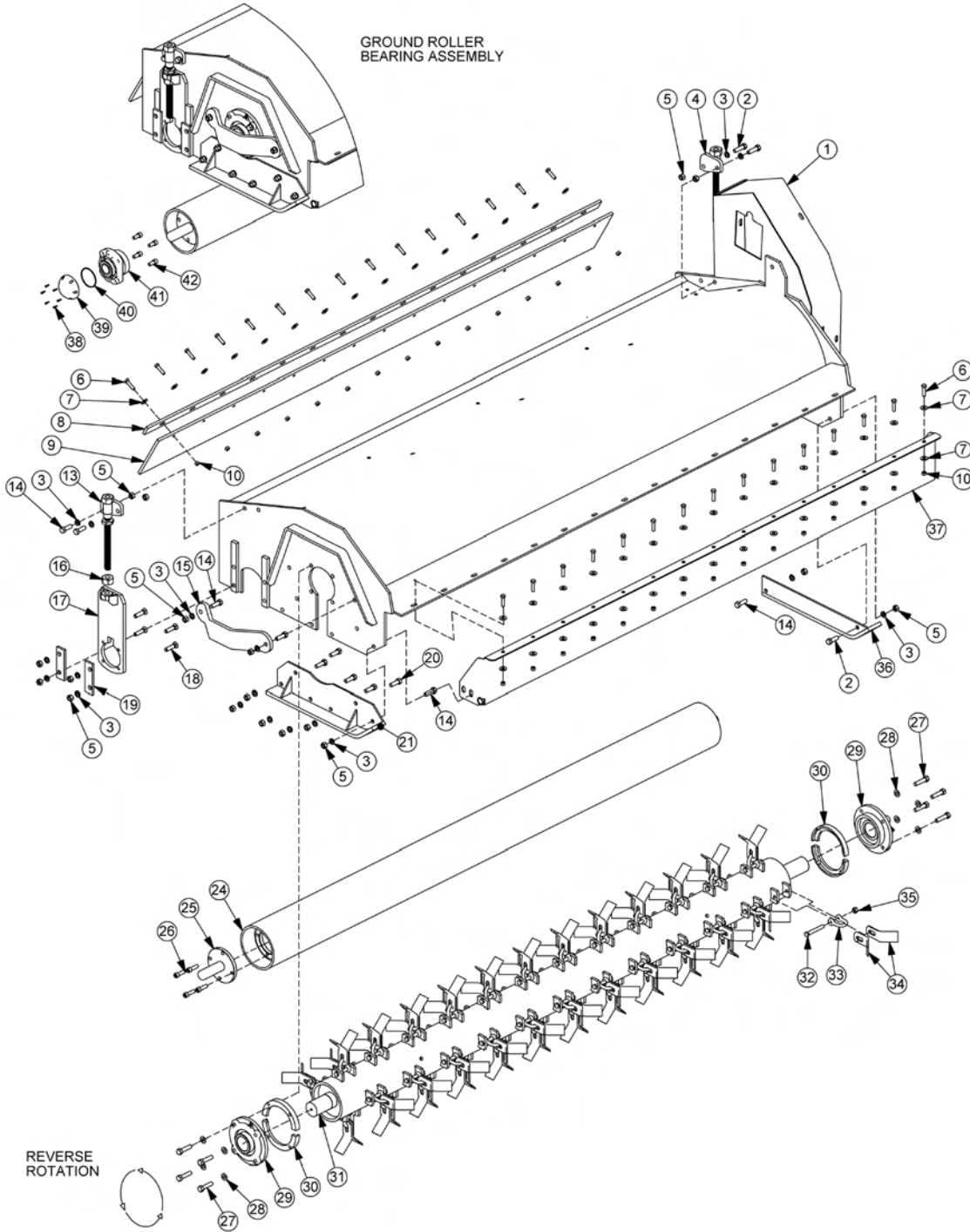
## EXTREME DUTY 102IN REAR FLAIL - STD ROT

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|---------------------------------|
| 4    | TF4335   | 1    | ROD,GROUND ROLLER ADJ,LF        |
| 5    | 21725    | 22   | HEX NUT,1/2",NC                 |
| 6    | 21632    | 36   | CAPSCREW,3/8" X 1-1/2",NC       |
| 7    | 22016    | 36   | FLATWASHER,3/8"                 |
| 8    | TF1703   | 2    | BAR,FLAP,TSF/TRF,102"           |
| 9    | TF1704A  | 1    | FLAP,DEFLECTOR,TSF/TRF,102"     |
| 10   | 21625    | 46   | HEX NUT,3/8",NC                 |
| 11   | 21988    | 10   | LOCKWASHER,3/8"                 |
| 12   | 6T2615   | 10   | WASHER,FENDER,3/8"              |
| 13   | TF4334   | 1    | ROD,GROUND ROLLER ADJ,RT        |
| 14   | 21731    | 6    | CAPSCREW,1/2" X 1-1/2",NC       |
| 15   | TF1040   | 1    | GUARD,CUTTERSHAFT               |
| 16   | 21399    | 2    | HEX NUT,3/4",ACME THRD          |
| 17   | TF4333A  | 2    | GROUND ROLLER ADJ BRKT          |
| 18   | 6T2294   | 8    | PLOW BOLT,1/2" X 2",NC          |
| 19   | TF4336   | 4    | PLATE,GROUND ROLLER LOCK        |
| 20   | 21730    | 6    | CAPSCREW,1/2" X 1-1/4",NC       |
| 21   | TF4371   | 1    | SKID SHOE,L/PROFILE-OUTER       |
| 22   | TF1702   | 1    | BAFFLE,FLAIL,102",HD            |
| 23   | 6T2283   | 10   | CARRIAGE BOLT,3/8" X 1",NC      |
| 24   | 28999    | 1    | GROUND ROLLER,102"              |
| 25   | TF1045B  | 2    | GRND ROLLER STUB SHAFT          |
| 26   | 6T2330   | 8    | CAPSCREW,7/16" X 1-1/2", SKT HD |
| ---  | 06200347 | -    | KIT,STRING GUARD                |
| 27   | 06530217 | 8    | CAPSCREW,1/2" X 2",NC,L9        |
| 28   | 06533006 | 8    | FLATWASHER,1/2",SAE,L9          |
| 29   | TF1018   | 2    | BEARING,FLANGE,2-3/16"          |
| 30   | 31204    | 2    | STRING GUARD,HD                 |
| ---  | TF1707A  | -    | CUTTERSHAFT ASSY,102"           |
| 31   | TF1707   | 1    | CUTTERSHAFT,102"                |
| 32   | 30411    | 56   | KNIFE MOUNTING BOLT,FLAIL       |
| 33   | TF1020   | 56   | KNIFE MTG CLEVIS,FLAIL          |
| 34   | 33714    | 112  | KNIFE,FLAIL,STANDARD CUT        |
| 35   | 21677    | 56   | NYLOCK NUT,7/16",NC             |
| 36   | TF4365   | 1    | SKID SHOE,L/PROFILE-INNER       |
| 37   | 06520245 | 1    | FLAP,FRONT,102"                 |
| 38   | 06530001 | 12   | CAPSCREW,SKT HD                 |
| 39   | 06520027 | 2    | CAP,BEARING                     |
| 40   | 06520029 | 2    | O-RING,2-3/4" X 3/32"           |
| 41   | 06520028 | 2    | BEARING,FLANGE,1-3/8"           |
| 42   | 6T2331   | 8    | CAPSCREW,7/16" X 1",SKT HD      |

COMMON TRIPLE

# EXTREME DUTY 102IN REAR FLAIL - REV ROT



| ITEM | PART NO. | QTY. | DESCRIPTION                          |
|------|----------|------|--------------------------------------|
| ---  | 33030    | -    | 102IN REAR FLAIL ASSY (STANDARD CUT) |
| ---- | 33033    | -    | 102IN REAR FLAIL ASSY (SMOOTH CUT)   |
| 1    | 22046J   | 1    | BONNET,102"                          |
| 2    | 21732    | 3    | CAPSCREW,1/2" X 1-3/4",NC            |

COMMON TRIPLE

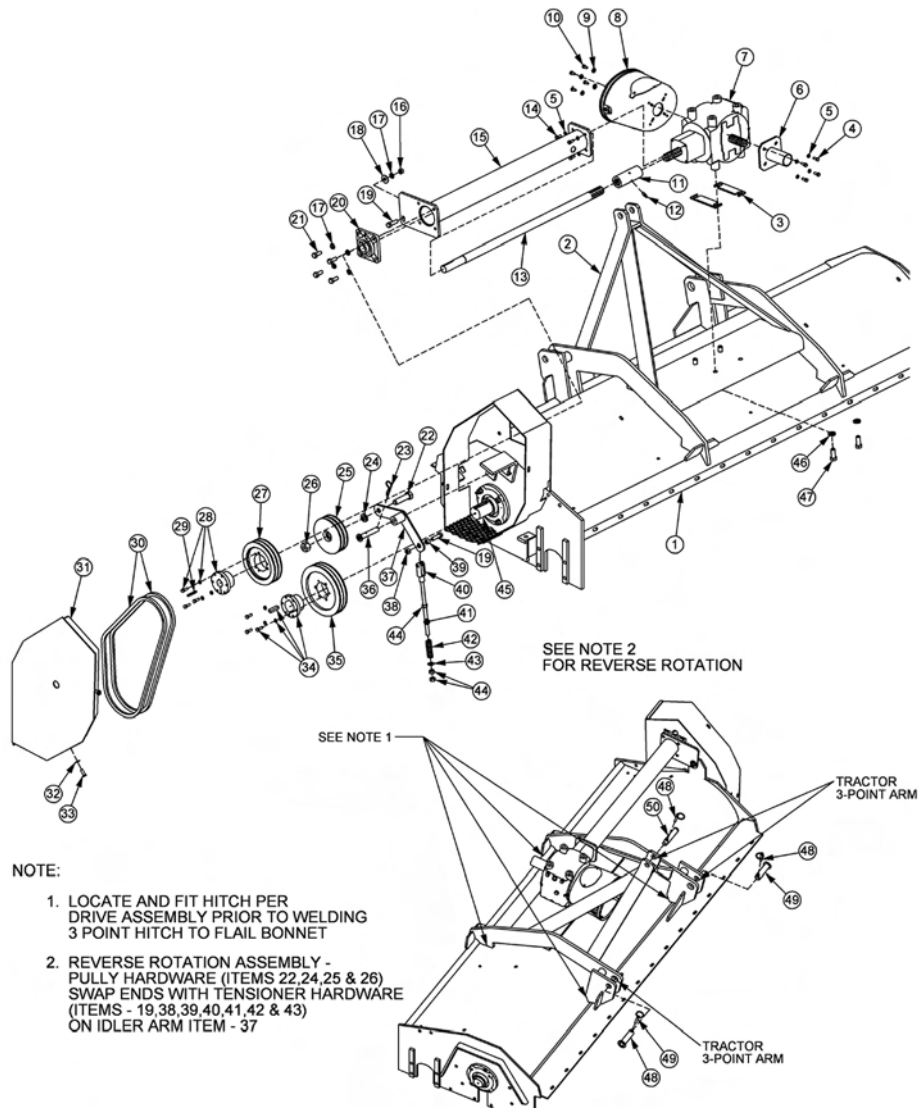
**EXTREME DUTY 102IN REAR FLAIL - REV ROT**

**Continued...**

| <b>ITEM</b> | <b>PART NO.</b> | <b>QTY.</b> | <b>DESCRIPTION</b>  |
|-------------|-----------------|-------------|---|
| 3           | 21990           | 22          | LOCKWASHER,1/2"   |
| 4           | TF4335          | 1           | ROD,GROUND ROLLER ADJ,LF                                    |
| 5           | 21725           | 22          | HEX NUT,1/2",NC   |
| 6           | 21632           | 36          | CAPSCREW,3/8" X 1-1/2",NC                                   |
| 7           | 22016           | 51          | FLATWASHER,3/8"   |
| 8           | TF1703          | 1           | BAR,FLAP,TSF/TRF,102"                                       |
| 9           | TF1704A         | 1           | FLAP,DEFLECTOR,TSF/TRF,102"                                 |
| 10          | 21625           | 46          | HEX NUT,3/8",NC   |
| 13          | TF4334          | 1           | ROD,GROUND ROLLER ADJ,RT                                    |
| 14          | 21731           | 6           | CAPSCREW,1/2" X 1-1/2",NC                                   |
| 15          | TF1040          | 1           | GUARD,CUTTERSHAFT   |
| 16          | 21399           | 2           | HEX NUT,3/4",ACME THRD                                      |
| 17          | TF4333A         | 2           | GROUND ROLLER ADJ BRKT                                      |
| 18          | 6T2294          | 8           | PLOW BOLT,1/2" X 2",NC                                      |
| 19          | TF4336          | 4           | PLATE,GROUND ROLLER LOCK                                    |
| 20          | 21730           | 5           | CAPSCREW,1/2" X 1-1/4",NC                                   |
| 21          | TF4371          | 1           | SKID SHOE,L/PROFILE-OUTER                                   |
| 24          | 28999           | 1           | GROUND ROLLER,102"  |
| 25          | TF1045B         | 2           | GRND ROLLER STUB SHAFT                                      |
| 26          | 6T2330          | 8           | CAPSCREW,7/16" X 1-1/2", SKT HD                             |
| ---         | 06200347        | -           | KIT,STRING GUARD (ITEMS 27, 28 & 30)                        |
| 27          | 06530217        | 8           | CAPSCREW,1/2" X 2",NC,L9                                    |
| 28          | 06533006        | 8           | FLATWASHER,1/2",SAE,L9                                      |
| 29          | TF1018          | 2           | BEARING,FLANGE,2-3/16"                                      |
| 30          | 31204           | 2           | STRING GUARD  |
| ---         | TF1707A         | -           | CUTTERSHAFT ASSY (STANDARD CUT) (ITEMS 31, 32, 33, 34 & 35) |
| ----        | TF1707B         | -           | CUTTERSHAFT ASSY (SMOOTH CUT) (ITEMS 31, 32, 33, 34A & 35)  |
| 31          | TF1707          | 1           | CUTTERSHAFT,102"  |
| 32          | 30411           | 56          | KNIFE MOUNTING BOLT,FLAIL                                   |
| 33          | TF1020          | 56          | KNIFE MTG CLEVIS,FLAIL                                      |
| 34          | 33714           | 112         | KNIFE,FLAIL,STANDARD CUT                                    |
| 34A         | TF1019F         | 56          | KNIFE,FLAIL,SMOOTH CUT (NOT SHOWN)                          |
| 35          | 21677           | 56          | NYLOCK NUT,7/16",NC   |
| 36          | TF4365          | 1           | SKID SHOE,L/PROFILE-INNER                                   |
| 37          | TF1701          | 1           | FRONT TRASH GUARD   |
| 38          | 06530001        | 12          | CAPSCREW,SKT HD   |
| 39          | 06520027        | 2           | CAP,BEARING   |
| 40          | 06520029        | 2           | O-RING,2-3/4" X 3/32"                                       |
| 41          | 06520028        | 2           | BEARING,FLANGE,1-3/8"                                       |
| 42          | 6T2331          | 8           | CAPSCREW,7/16" X 1",SKT HD                                  |

COMMON TRIPLE

# EXTREME DUTY 102IN REAR FLAIL DRIVE ASSY



**NOTE:**

1. LOCATE AND FIT HITCH PER DRIVE ASSEMBLY PRIOR TO WELDING 3 POINT HITCH TO FLAIL BONNET
2. REVERSE ROTATION ASSEMBLY - PULLY HARDWARE (ITEMS 22,24,25 & 26) SWAP ENDS WITH TENSIONER HARDWARE (ITEMS - 19,38,39,40,41,42 & 43) ON IDLER ARM ITEM - 37

| ITEM | PART NO. | QTY. | DESCRIPTION                    |
|------|----------|------|--------------------------------|
| 1    | -----    | 1    | BONNET *REFER TO CUTTER ASSY   |
| 2    | 31279A   | 1    | HITCH,3-POINT                  |
| 3    | 40454    | 2    | SPACER                         |
| 4    | 27508    | 4    | CAPSCREW,8MM X 20MM(1.25)      |
| 5    | 6T2619   | 8    | LOCKWASHER,8MM                 |
| 6    | 28447E   | 1    | GUARD,OUTPUT SHAFT             |
| 7    | 28505    | 1    | GEARBOX,REAR FLAIL,COMER T22A  |
| 8    | 06520181 | 1    | GUARD,PTO,GRBX                 |
| 9    | 34948    | 4    | FLATWASHER,8MM                 |
| 10   | 27507    | 4    | CAPSCREW,8MM X 15MM(1.25)      |
| 11   | 28914    | 1    | COUPLING,6 SPLINE              |
| 12   | 6T3209   | 1    | GREASE ZERK,1/4" DRIVE         |
| 13   | 28421A   | 1    | OUTPUT EXTENSION SHAFT,102"RCM |

COMMON TRIPLE



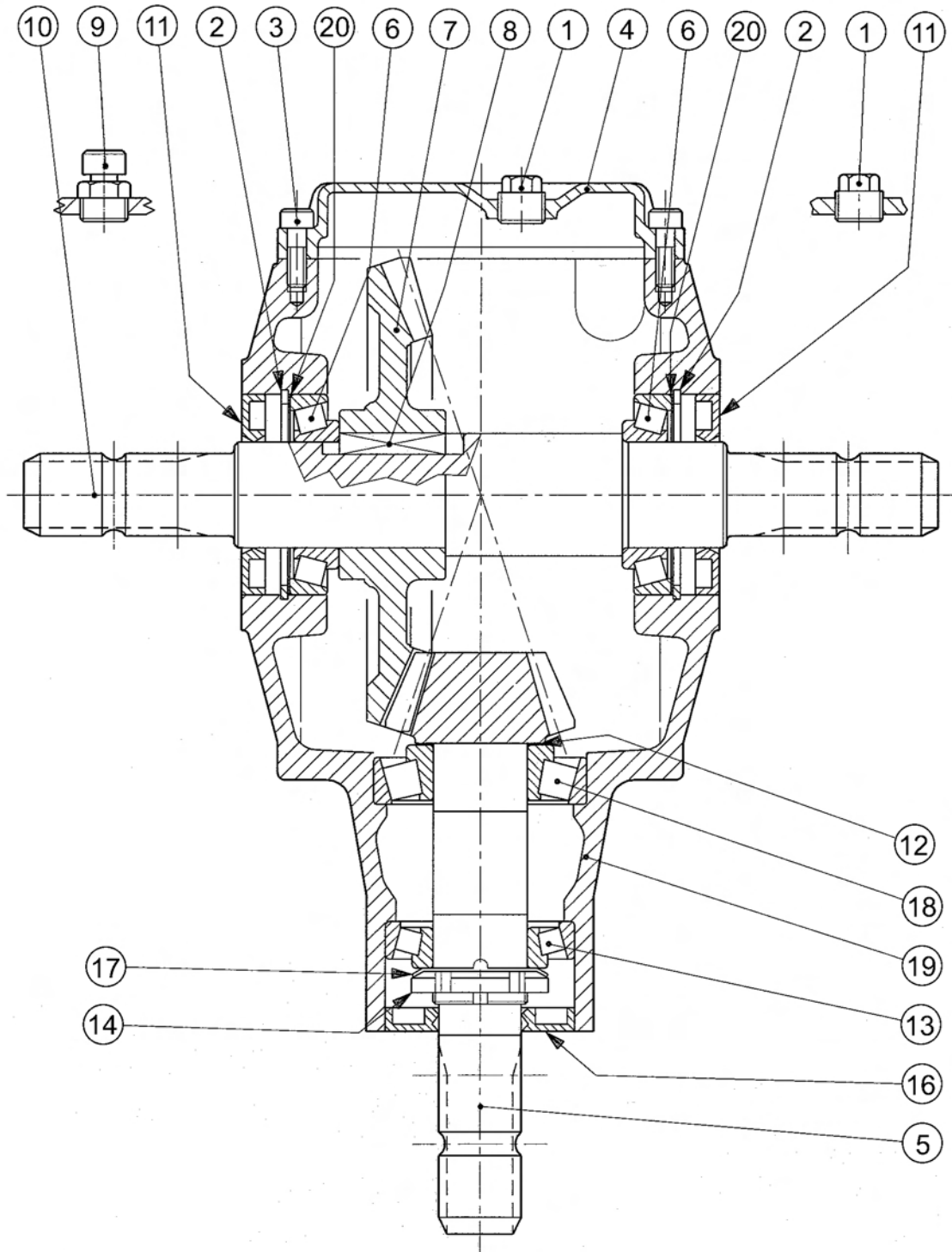
## EXTREME DUTY 102IN REAR FLAIL DRIVE ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| ---  | 28417B   | -    | OUTPUT EXTENSION SHAFT,102"R6F    |
| ---- | 28419B   | -    | OUTPUT EXTENSION SHAFT,102"OFF    |
| 14   | 30162    | 4    | CAPSCREW,SKT HD,8MM X 20MM(1.25)  |
| 15   | 28429A   | 1    | SHAFT GRD,HD,102"RCM              |
| ---  | 28425B   | -    | SHAFT GRD,HD,102"R6F              |
| ---- | 28427B   | -    | SHAFT GRD,HD,102"ROFF             |
| 16   | 21725    | 1    | HEX NUT,1/2",NC                   |
| 17   | 21990    | 5    | LOCKWASHER,1/2"                   |
| 18   | 22018    | 1    | FLATWASHER,1/2",WIDE              |
| 19   | 21732    | 2    | CAPSCREW,1/2" X 1-3/4",NC         |
| 20   | 28571    | 1    | BEARING,FLANGE,1-1/4"             |
| 21   | 21730    | 4    | CAPSCREW,1/2" X 1-1/4",NC         |
| 22   | 28399    | 1    | CAPSCREW,20MM X 80MM(2.5),GR10.9  |
| 23   | 6T3004   | 1    | R-CLIP,HAIRPIN COTTER,3/16"       |
| 24   | 24881    | 1    | LOCKWASHER,20MM                   |
| 25   | 31295    | 1    | SHEAVE,IDLER ASSY,6.3"            |
| 26   | 31740    | 1    | NYLOCK NUT,20MM(2.5)              |
| 27   | TF3043   | 1    | SHEAVE,7.5"                       |
| 28   | 30049    | 2    | BUSHING,QD,SK 1-1/4",1/4" KEY     |
| 29   | 28572    | 1    | KEY,1/4"SQ X 2"                   |
| 30   | TF3023   | 2    | V-BELT(630)                       |
| 31   | 31286A   | 1    | SHIELD,BELT                       |
| 32   | 21988    | 4    | LOCKWASHER,3/8"                   |
| 33   | 21630    | 4    | CAPSCREW,3/8" X 1",NC             |
| 34   | TF3011   | 1    | BUSHING,QD,SK 2-3/16"             |
| 35   | 28570    | 1    | SHEAVE,9.0"                       |
| 36   | TF3605   | 1    | PIN,IDLER ARM                     |
| 37   | TF1180   | 1    | IDLER ARM                         |
| 38   | 6T2418   | 1    | HEX NUT,1/2",NC,GR8(STOVER)       |
| 39   | TF3610   | 1    | BUSHING,IDLER                     |
| 40   | PT3611A  | 1    | CLEVIS                            |
| 41   | 32482    | 1    | ROD,THREADED,1/2-20,NF,12-1/2"    |
| 42   | TF3620A  | 1    | SPRING,TENSIONER                  |
| 43   | 27938    | 1    | BUSHING,MACH,14GA                 |
| 44   | 21700    | 3    | HEX NUT,1/2",NF                   |
| 45   | -----    | 1    | CUTTERSHAFT *REFER TO CUTTER ASSY |
| 46   | 6T2625   | 4    | LOCKWASHER,16MM                   |
| 47   | 22421    | 4    | CAPSCREW,16MM X 40MM(2.0),GR10.9  |
| 48   | TF1143   | 3    | LYNCH PIN                         |
| 49   | TF1120   | 2    | PIN,CAPPED                        |
| 50   | TB1036   | 1    | PIN                               |

COMMON TRIPLE

# EXTREME DUTY REAR GEAR BOX ASSY



COMMON TRIPLE

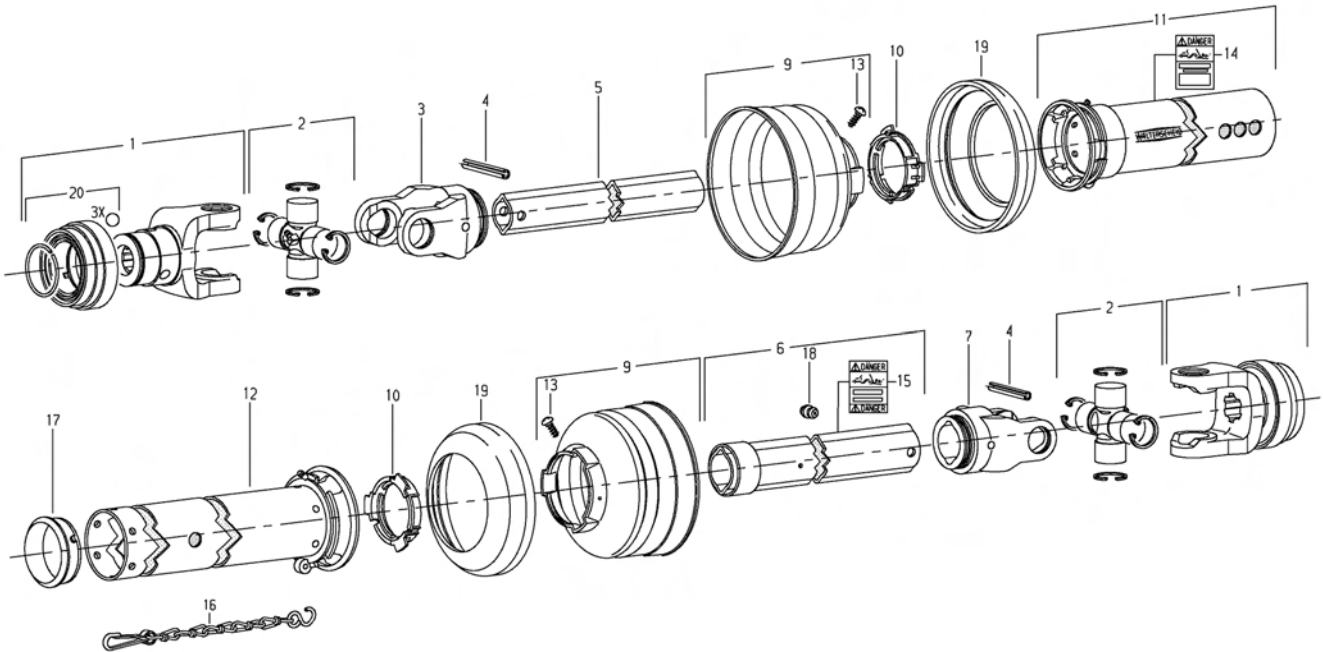
## EXTREME DUTY REAR GEAR BOX ASSY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION            |
|------|----------|------|------------------------|
| ---  | 28505    | -    | GEAR BOX,REAR FLAIL,HD |
| 1    | 28592    | 2    | PLUG,1/2",GAS          |
| 2    | 28593    | 2    | SNAP RING              |
| 3    | 28594    | 6    | CAPSCREW,8MM X 25MM    |
| 4    | 28595    | 1    | SHIM                   |
| 6    | 28597    | 2    | BEARING                |
| 7    | 28598    | 1    | GEAR                   |
| 8    | 28599    | 1    | PARALLEL KEY           |
| 9    | 28600    | 1    | OIL FILLER PLUG        |
| 10   | 28601    | 1    | SHAFT                  |
| 11   | 28602    | 2    | OIL SEAL               |
| 12   | 28603    | 1    | SHIM                   |
| 13   | 28604    | 1    | BEARING                |
| 14   | 28605    | 1    | LOCK NUT               |
| 15   | 28606    | 1    | PINION                 |
| 16   | 28607    | 1    | DOUBLE LIP SEAL        |
| 17   | 28608    | 1    | SPRING WASHER          |
| 18   | 28609    | 1    | BEARING                |
| 19   | 28591    | 1    | CASTING                |
| 20   | 28596    | 2    | SHIM                   |

COMMON TRIPLE

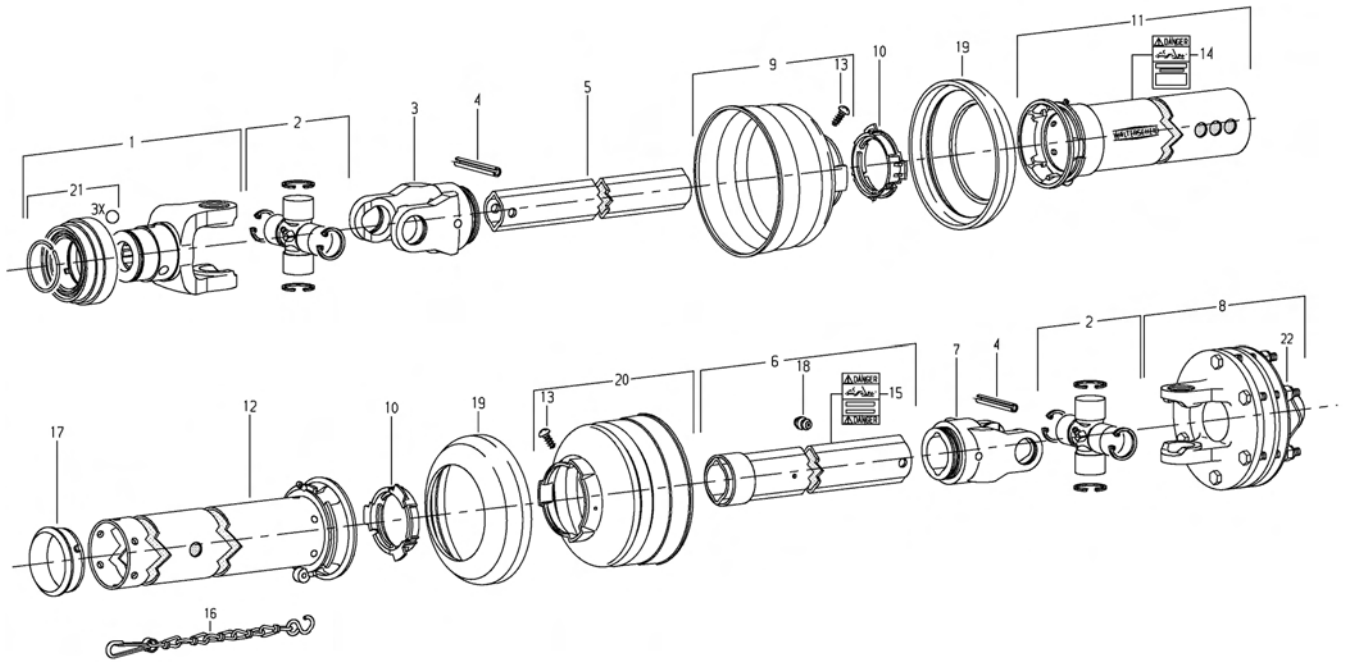
## PTO SHAFT ASSEMBLY



| ITEM | PART NO. | QTY. | DESCRIPTION           |
|------|----------|------|-----------------------|
| ---  | 06520414 | -    | PTO.DRV SHFT,TRF      |
| 1    | 00775353 | 2    | YOKE 1-3/8"-6 SPL.    |
| 2    | 00189700 | 2    | CROSS & BEARING KIT   |
| 3    | 00775317 | 1    | INBOARD YOKE 1B       |
| 4    | 00756934 | 2    | SPRING PIN            |
| 5    | -----    | 1    | INNER PROFILE 1B      |
| 6    | -----    | 1    | PROFILE & SLEEVE      |
| 7    | 00775318 | 1    | INBOARD YOKE 2A       |
| 9    | 06505010 | 2    | GUARD CONE            |
| 10   | 8393     | 2    | BEARING RING          |
| 11   | -----    | 1    | GUARD TUBE,OUTER      |
| 12   | -----    | 1    | GUARD TUBE,INNER      |
| 13   | 00759217 | 2    | SCREW (ITEM 9)        |
| 14   | 00756005 | 1    | DECAL,OUTER (ITEM 11) |
| 15   | 00756004 | 1    | DECAL,INNER (ITEM 6)  |
| 16   | 1416412  | 1    | RESTRAINT CHAIN       |
| 17   | -----    | 1    | SUPPORT BEARING       |
| 18   | -----    | 1    | ZERK (ITEM 6)         |
| 19   | -----    | 2    | REINFORCING COLLAR    |
| 20   | 00767954 | -    | KIT,COLLAR (ITEM 1)   |

COMMON TRIPLE

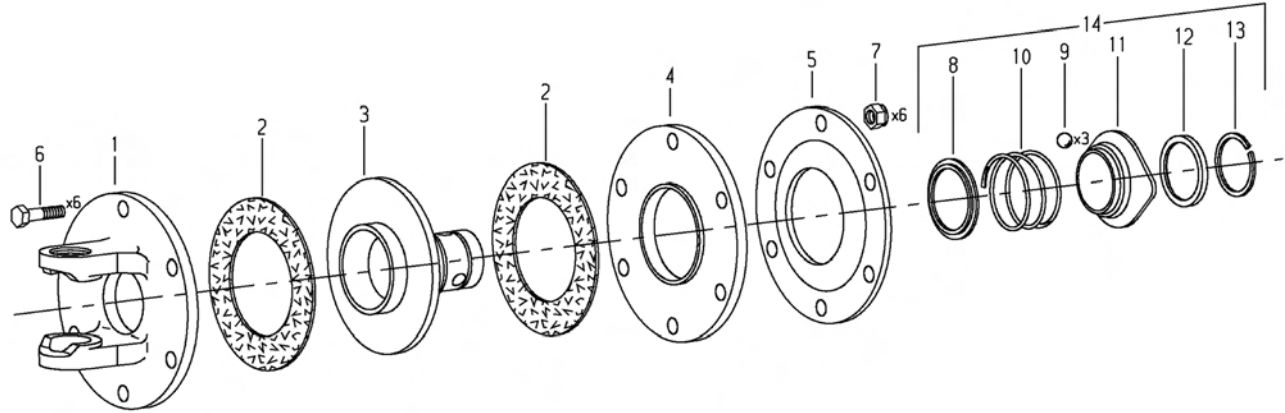
## PTO SHAFT ASSEMBLY WITH CLUTCH



| ITEM | PART NO.   | QTY. | DESCRIPTION             |
|------|------------|------|-------------------------|
| ---  | 06520415   | -    | PTO,DRV SHFT,TRF,CLUTCH |
| 1    | 00775353   | 1    | YOKE 1-3/8"-6 SPL.      |
| 2    | 00189700   | 2    | CROSS & BEARING KIT     |
| 3    | 00775317   | 1    | INBOARD YOKE 1B         |
| 4    | 00756934   | 2    | SPRING PIN              |
| 5    | -----      | 1    | INNER PROFILE 1B        |
| 6    | -----      | 1    | PROFILE & SLEEVE        |
| 7    | 00775318   | 1    | INBOARD YOKE 2A         |
| 8    | 00775365   | 1    | FRICITION CLUTCH        |
| 9    | 06505010   | 2    | GUARD CONE              |
| 10   | 8393       | 2    | BEARING RING            |
| 11   | -----      | 1    | GUARD TUBE,OUTER        |
| 12   | -----      | 1    | GUARD TUBE,INNER        |
| 13   | 00759217   | 2    | SCREW (ITEM 9)          |
| 14   | 00756005   | 1    | DECAL,OUTER (ITEM 11)   |
| 15   | 00756004   | 1    | DECAL,INNER (ITEM 6)    |
| 16   | 1416412    | 1    | RESTRAINT CHAIN         |
| 17   | -----      | 1    | SUPPORT BEARING         |
| 18   | -----      | 1    | ZERK (ITEM 6)           |
| 19   | -----      | 2    | REINFORCING COLLAR      |
| 20   | -----      | 1    | GUARD CONE              |
| 21   | 00767954   | -    | KIT,COLLAR (ITEM 1)     |
| 22   | 0921000470 | -    | KIT,FLANGE (ITEM 8)     |

COMMON TRIPLE

## CLUTCH ASSEMBLY



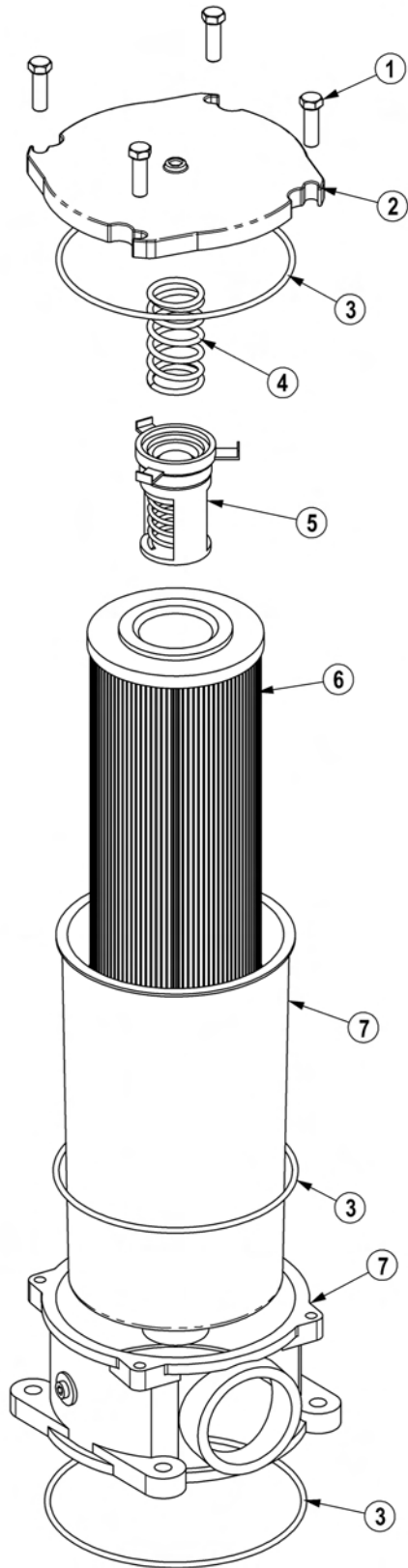
| ITEM | PART NO.   | QTY. | DESCRIPTION          |
|------|------------|------|----------------------|
| ---  | 00775365   | -    | CLUTCH ASSY          |
| 1    | -----      | 1    | FLANGE YOKE          |
| 2    | -----      | 2    | FRICTION DISC        |
| 3    | -----      | 1    | HUB                  |
| 4    | -----      | 1    | THRUST PLATE         |
| 5    | -----      | 1    | BELLE VILLE SPRING   |
| 6    | -----      | 6    | HEX BOLT             |
| 7    | -----      | 6    | HEX LOCKNUT          |
| 8    | -----      | 1    | BACK-UP RING         |
| 9    | -----      | 3    | BALL                 |
| 10   | -----      | 1    | COMPRESSION SPRING   |
| 11   | -----      | 1    | LOCK COLLAR          |
| 12   | -----      | 1    | BACK-UP RING         |
| 13   | -----      | 1    | SNAP RING            |
| 14   | 0921000470 | -    | KIT(ITEMS 8 THRU 13) |

COMMON TRIPLE

**NOTES 1**

**NOTES**

# RESERVOIR TANK FILTER ASSEMBLY



COMMON TRIPLE



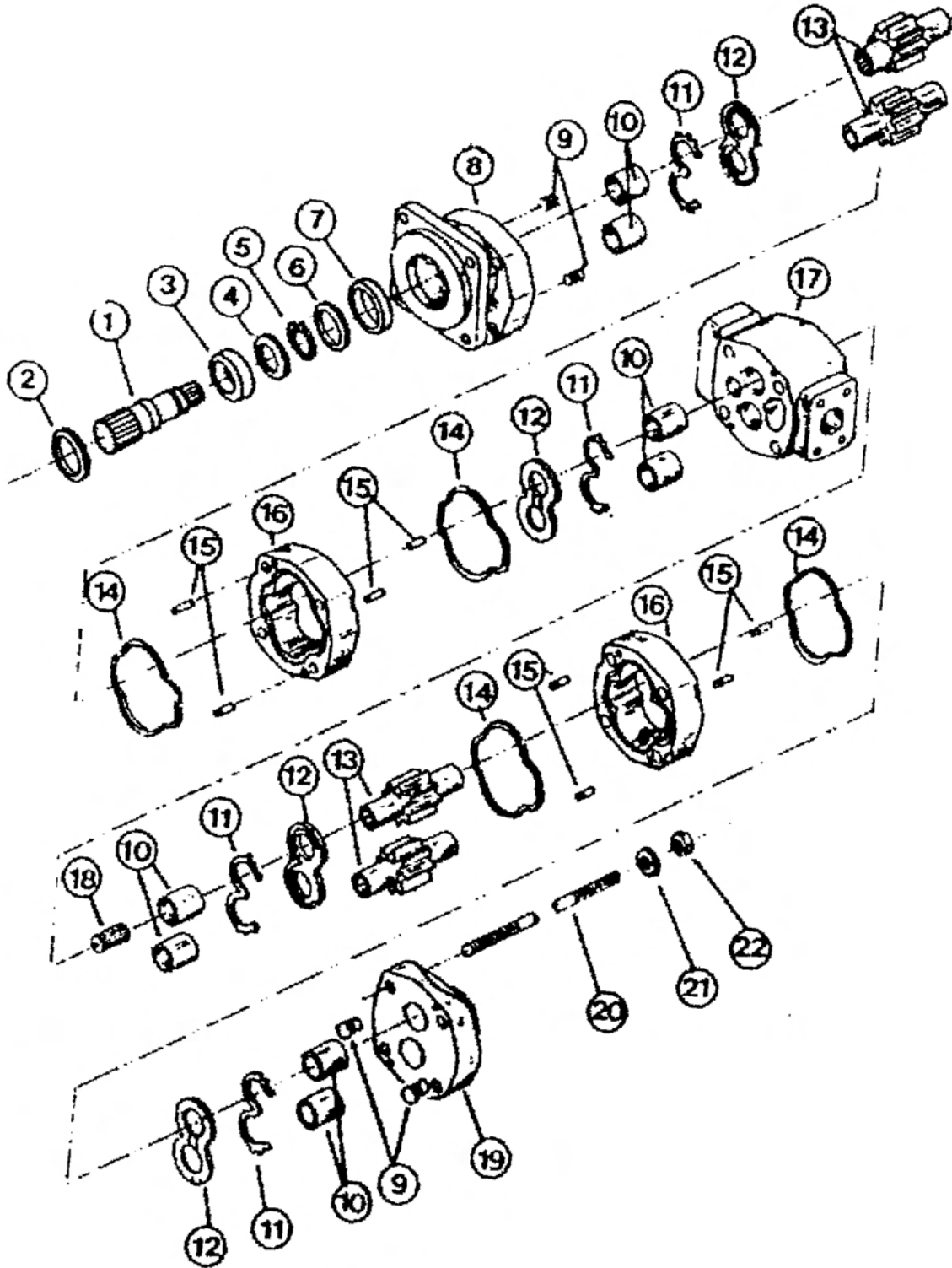
## RESERVOIR TANK FILTER ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|---------------------------------|
| ---  | 06505044 | -    | FILTER ASSY SAE 10 MICRON       |
| 1    | 28583    | 4    | CAPSCREW,8MM X 25MM(1.25 PITCH) |
| 2    | 06505045 | 1    | COVER                           |
| 3    | 06505046 | 1    | SEAL KIT                        |
| 4    | 06505047 | 1    | SPRING                          |
| 5    | 06505048 | 1    | BYPASS                          |
| 6    | 35259    | 1    | FILTER,10 MIC,RETURN LINE       |
| 7    | 06505049 | 1    | CAN/BODY                        |

COMMON TRIPLE

# FRONT HYDRAULIC PUMP BREAKDOWN



COMMON TRIPLE

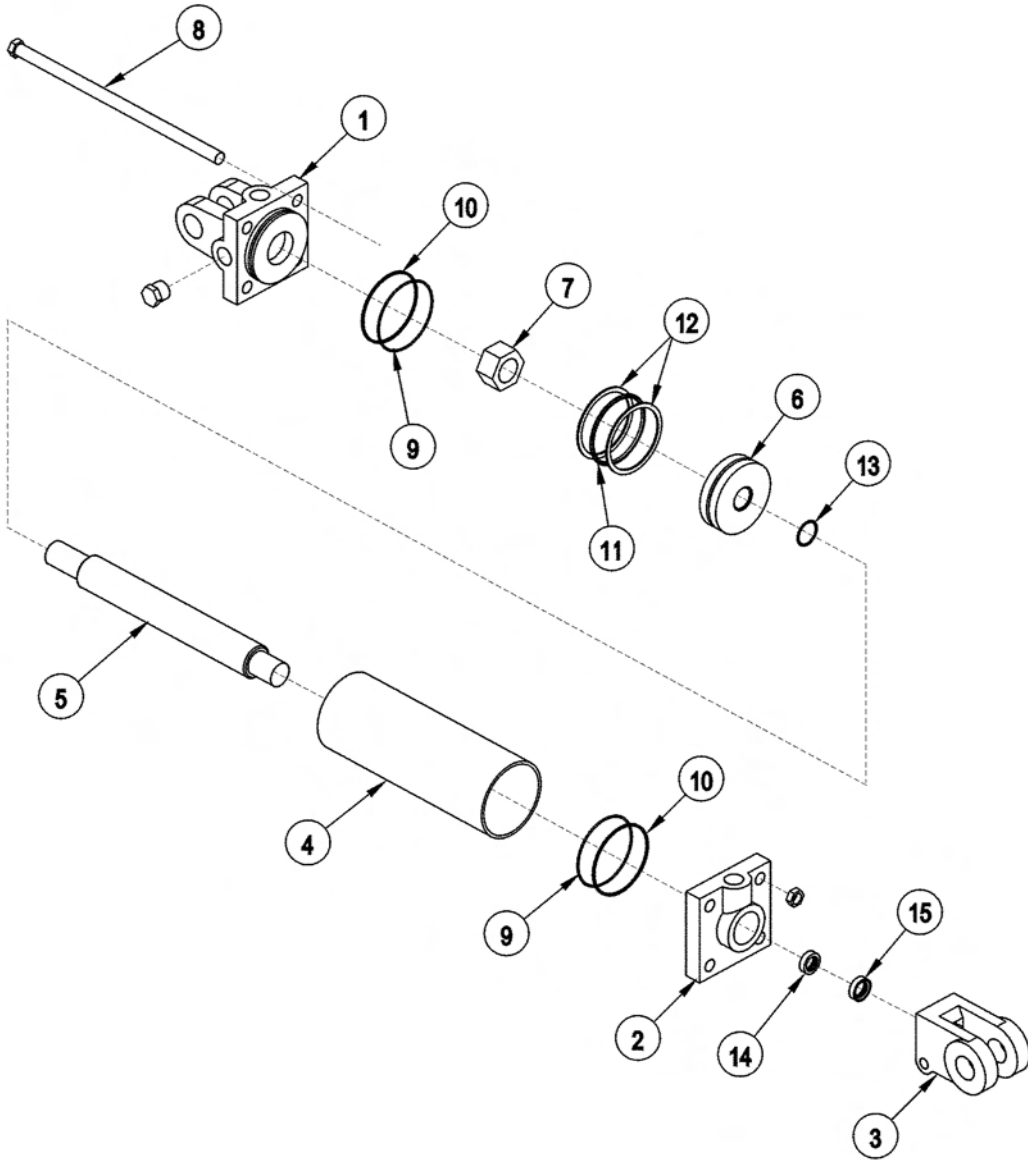
## FRONT HYDRAULIC PUMP BREAKDOWN

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                            |
|------|----------|------|--|
| *    | TF4450   | -    | FRONT MOUNTED PUMP P330                |
| 1    | TF4459   | 1    | CONTINENTAL SHAFT                      |
| 2    | TF4451   | 1    | SNAP RING                              |
| 3    | TF4452   | 1    | OUTBOARD BEARING                       |
| 4    | TF4467   | 1    | BEARING RETAINER RING                  |
| 5    | TF4472   | 1    | RETAINING RING                         |
| 6    | TF4473   | 1    | SPACER                                 |
| 7    | TF4453   | 1    | LIP SEAL                               |
| 8    | TF4454   | 1    | SHAFT END COVER                        |
| 9    | TF4455   | 4    | PLUG                                   |
| 10   | TF4456   | 8    | BUSHING                                |
| 11   | TF4457   | 4    | CHANNEL SEAL                           |
| 12   | TF4458   | 4    | THRUST PLATE                           |
| 13   | TF4466   | -    | MATCHED GEAR SET                       |
| 14   | TF4460   | 4    | GASKET SEAL                            |
| 15   | TF4461   | 8    | DOWEL PINS                             |
| 16   | TF4462   | 2    | GEAR HOUSING (FOR 1-1/2" GEARS)        |
| 17   | TF4463   | 1    | BEARING CARRIER                        |
| 18   | TF4465   | 1    | CONNECTING SHAFT                       |
| 19   | TF4468   | 1    | PORT END COVER                         |
| 20   | TF4469   | 4    | STUD                                   |
| 21   | TF4415   | 4    | WASHER                                 |
| 22   | TF4471   | 4    | NUT                                    |
| *    | TF4474   | -    | SEAL KIT (INCLUDES ITEM 7, 11, AND 14) |

COMMON TRIPLE

3IN X 8IN TIE-ROD CYLINDER - 31211



COMMON TRIPLE

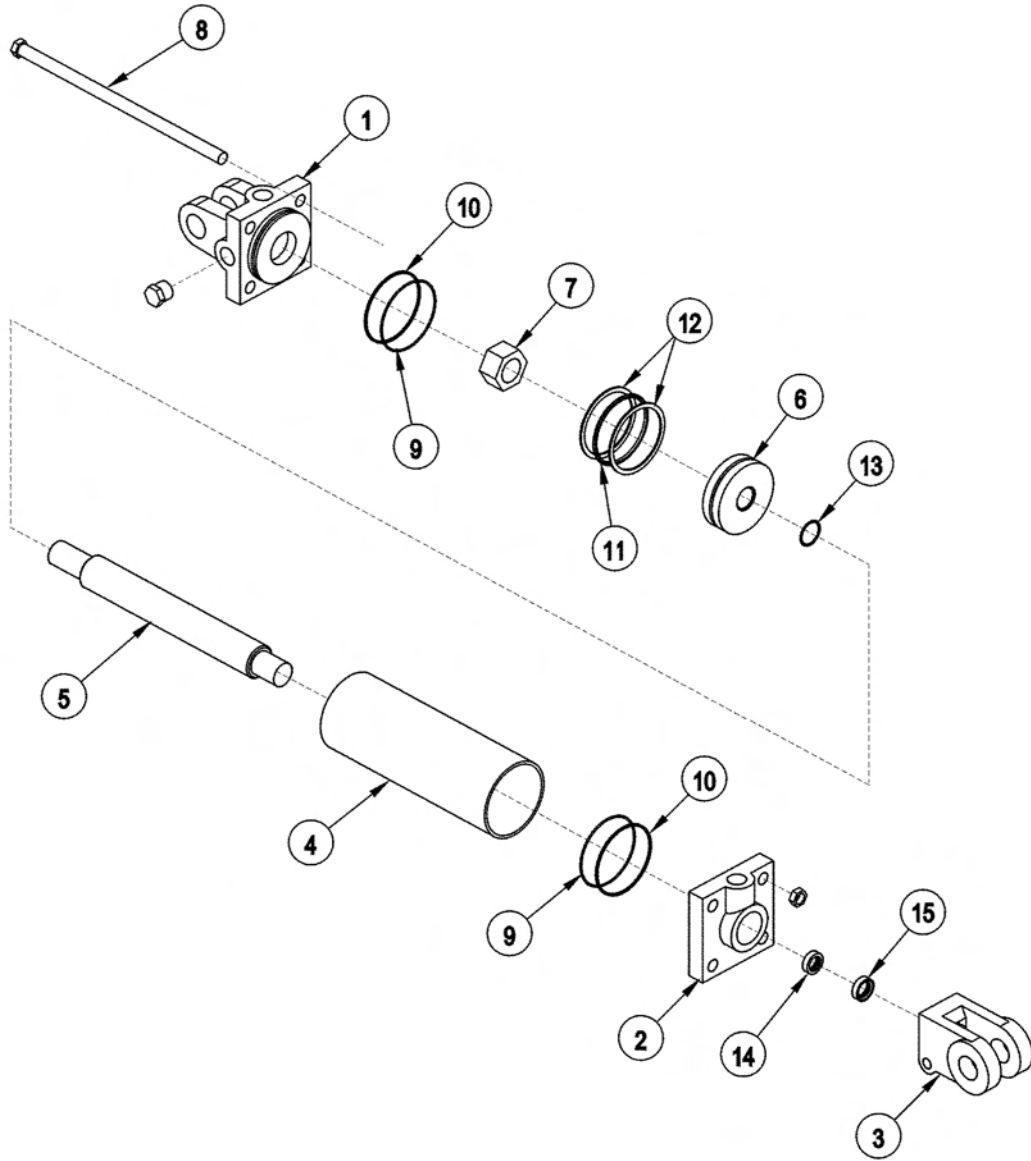
### 3IN X 8IN TIE-ROD CYLINDER - 31211

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION      |
|------|----------|------|------------------|
| ---  | 31211    | -    | CYLINDER 3" X 8" |
| 1    | 6T0167   | 1    | CYLINDER BUTT    |
| 2    | 6T0170   | 1    | CYLINDER GLAND   |
| 3    | 6T0178   | 1    | CLEVIS END       |
| 4    | 23870    | 1    | CYLINDER TUBE    |
| 5    | 23869    | 1    | PISTON ROD       |
| 6    | 6T0173   | 1    | PISTON           |
| 7    | 6T0179   | 1    | LOCKNUT          |
| 8    | 21749    | 4    | TIE ROD ASY      |
| ---  | 06501579 | -    | 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            |

COMMON TRIPLE

3IN X 12IN TIE-ROD CYLINDER - 25343



COMMON TRIPLE

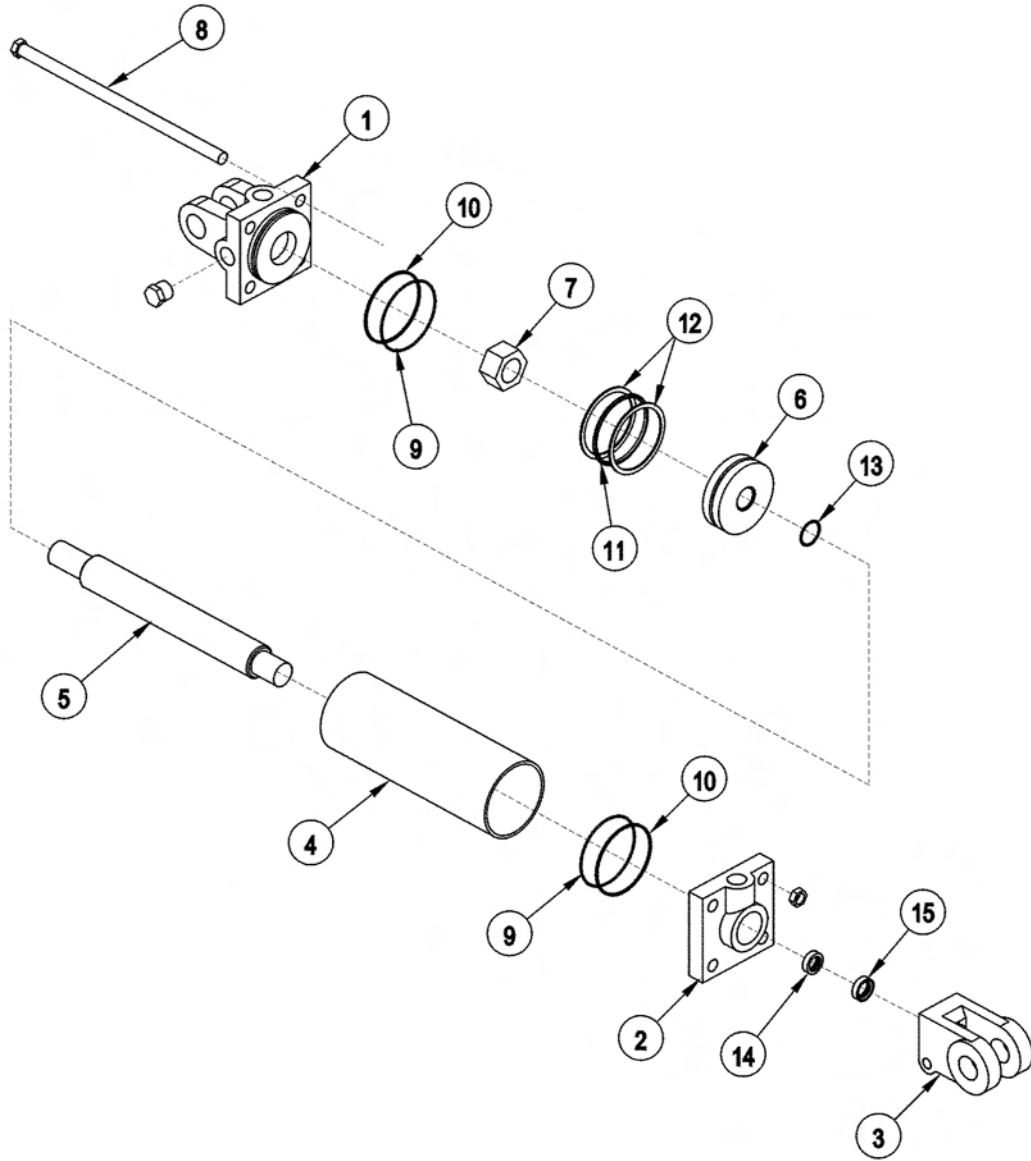
### 3IN X 12IN TIE-ROD CYLINDER - 25343

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION       |
|------|----------|------|-------------------|
| ---  | 25343    | -    | CYLINDER 3" X 12" |
| 1    | 6T0167   | 1    | CYLINDER BUTT     |
| 2    | 6T0170   | 1    | CYLINDER GLAND    |
| 3    | 6T0178   | 1    | CLEVIS END        |
| 4    | 23870    | 1    | CYLINDER TUBE     |
| 5    | 23869    | 1    | PISTON ROD        |
| 6    | 6T0173   | 1    | PISTON            |
| 7    | 6T0179   | 1    | LOCKNUT           |
| 8    | 21749    | 4    | TIE ROD ASY       |
| ---  | 6T0187   | -    | 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             |

COMMON TRIPLE

3IN X 12IN TIE-ROD CYLINDER - 32215



COMMON TRIPLE



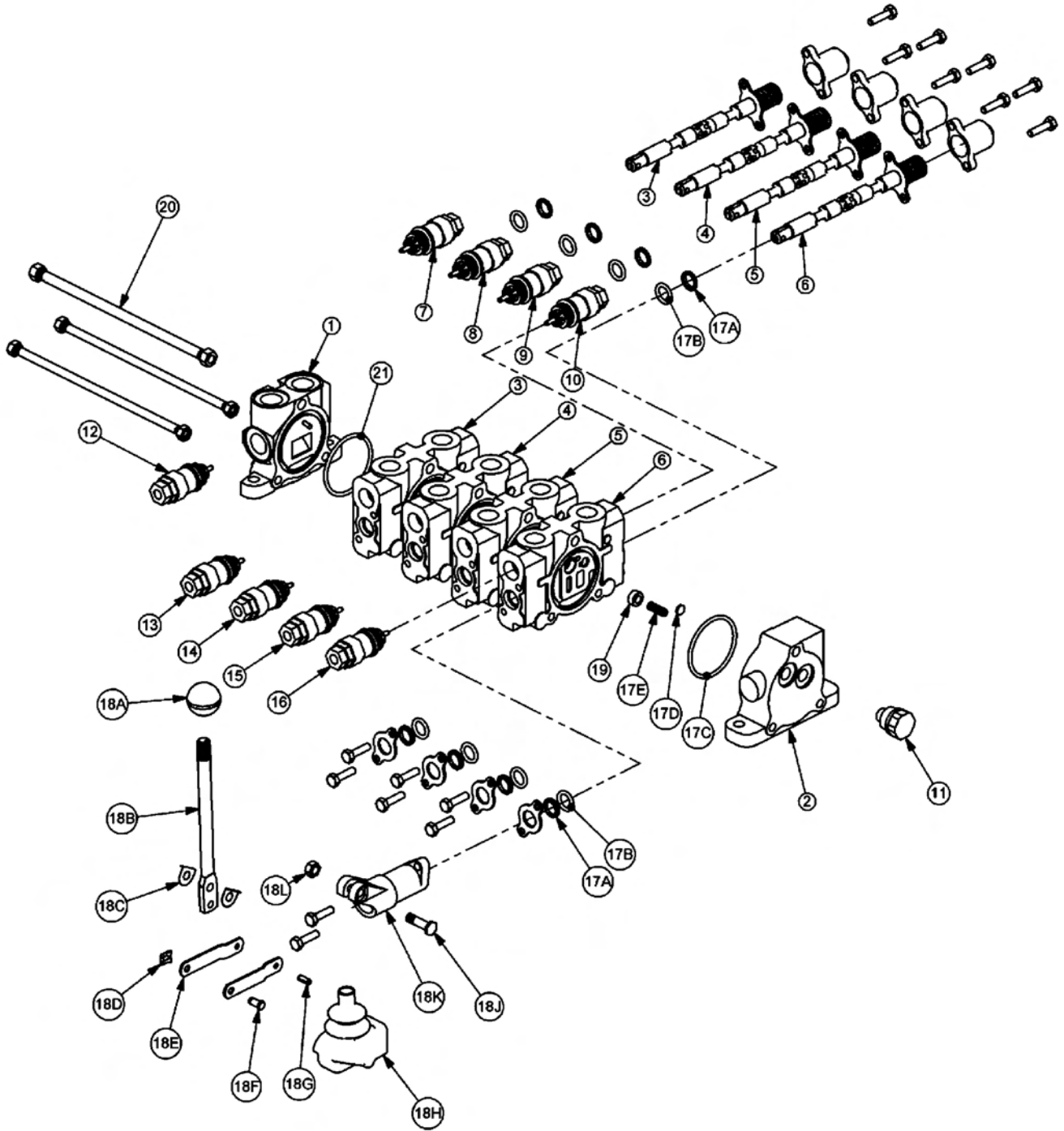
## 3IN X 12IN TIE-ROD CYLINDER - 32215

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION       |
|------|----------|------|-------------------|
| ---  | 32215    | -    | CYLINDER 3" X 12" |
| 1    | 6T0167   | 1    | CYLINDER BUTT     |
| 2    | 6T0170   | 1    | CYLINDER GLAND    |
| 3    | 6T0178   | 1    | CLEVIS END        |
| 4    | 6T0204   | 1    | CYLINDER TUBE     |
| 5    | 6T0203   | 1    | PISTON ROD        |
| 6    | 6T0173   | 1    | PISTON            |
| 7    | 6T0179   | 1    | LOCKNUT           |
| 8    | 6T0205   | 4    | TIE ROD ASY       |
| ---  | 6T0187   | -    | 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             |

COMMON TRIPLE

4 SPOOL CABLE (MANUAL) LIFT VALVE - 31190



COMMON TRIPLE

## 4 SPOOL CABLE (MANUAL) LIFT VALVE - 31190

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                   |
|------|----------|------|---|
| ---  | 31190    | -    | VALVE,4 SPOOL,LOAD SENSE                      |
| 1    | 31595    | 1    | INLET END COVER                               |
| 2    | 31594    | 1    | END COVER, LOAD SENSE                         |
| 3    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 4    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 5    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 6    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 7    | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 8    | 06503067 | 1    | #10 O-RING PLUG                               |
| 9    | 06503067 | 1    | #10 O-RING PLUG                               |
| 10   | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 11   | 06503068 | 1    | #6 O-RING PLUG                                |
| 12   | 6T4209   | 1    | #10 O-RING PLUG                               |
| 13   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 14   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 15   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 16   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 17   | 31593    | 4    | VALVE SEAL KIT (FOR ONE SECTION)              |
| 17A  | -----    | 2    | WIPER   |
| 17B  | -----    | 2    | O-RING SMALL                                  |
| 17C  | -----    | 1    | O-RING LARGE                                  |
| 17D  | -----    | 1    | SHUTTLE DISC                                  |
| 17E  | -----    | 1    | SPRING  |
| 18   | TB1017L  | 4    | LEVER KIT (FOR ONE SECTION)                   |
| 18A  | -----    | 1    | LEVER KNOB                                    |
| 18B  | -----    | 1    | LEVER   |
| 18C  | -----    | 2    | LEVER WASHER                                  |
| 18D  | -----    | 1    | LEVER CLIP                                    |
| 18E  | -----    | 2    | LINKAGE                                       |
| 18F  | -----    | 1    | LEVER PIN                                     |
| 18G  | -----    | 1    | ROLL PIN                                      |
| 18H  | -----    | 1    | LEVER BOOT                                    |
| 18J  | -----    | 1    | LEVER BOLT                                    |
| 18K  | -----    | 1    | LEVER DUST COVER                              |
| 18L  | -----    | 1    | LEVER NUT                                     |
| 19   | 31603    | 4    | COMPENSATOR                                   |
| 20   | TB1017U  | 1    | TIE ROD KIT                                   |
| 21   | 24214    | 1    | O-RING, LARGE                                 |

COMMON TRIPLE



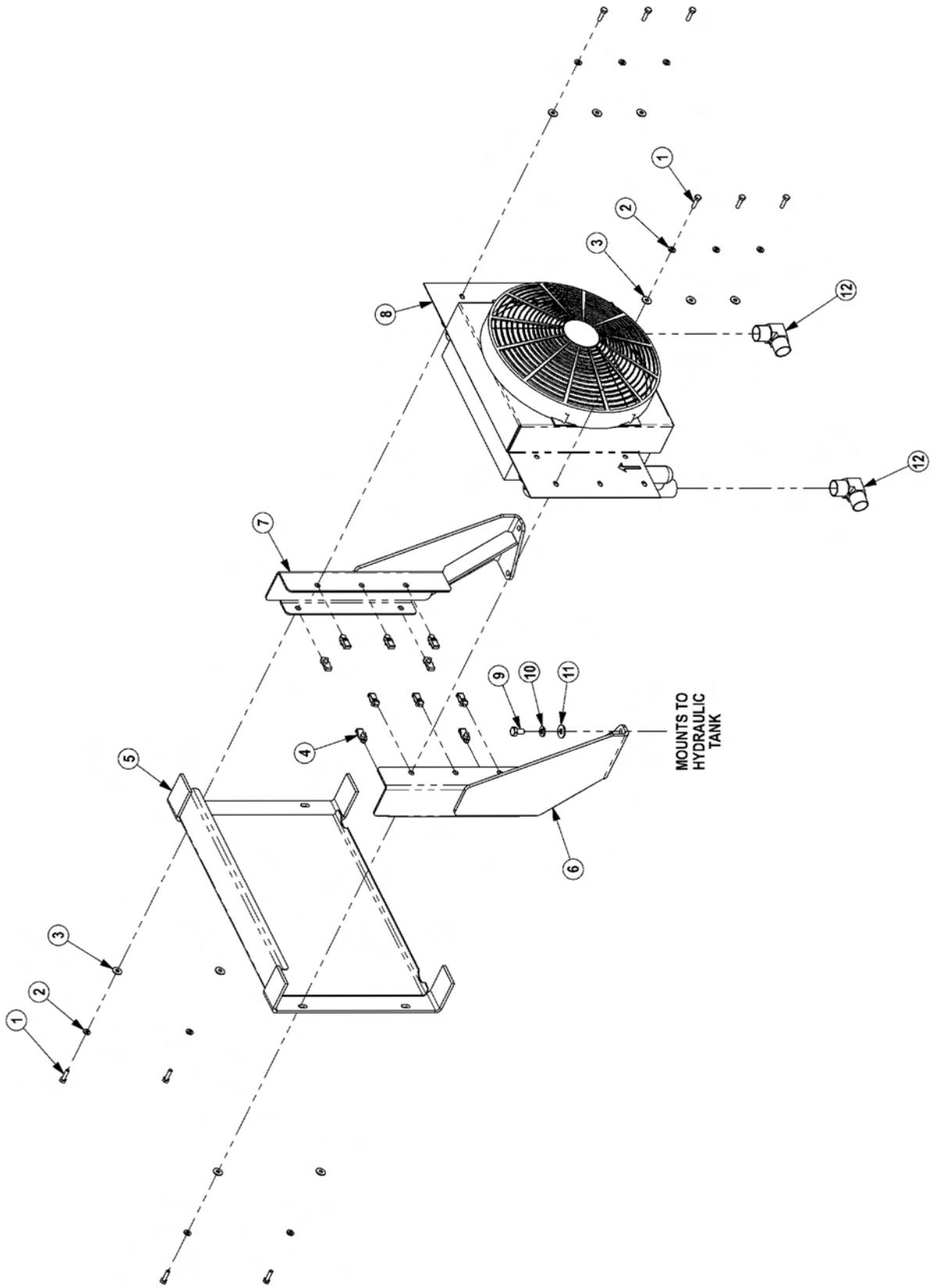
## 4 SPOOL CABLE (MANUAL) LIFT VALVE - 06502046

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                                   |
|------|----------|------|---|
| ---  | 06502046 | -    | VALVE,4 SPOOL,LOAD SENSE                      |
| 1    | 31595    | 1    | INLET END COVER                               |
| 2    | 31594    | 1    | END COVER, LOAD SENSE                         |
| 3    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 4    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 5    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 6    | 31600    | 1    | VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT) |
| 7    | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 8    | 06503067 | 1    | #10 O-RING PLUG                               |
| 9    | 06503067 | 1    | #10 O-RING PLUG                               |
| 10   | 31861    | 1    | RELIEF VALVE, 360 PSI                         |
| 11   | 06503068 | 1    | #6 O-RING PLUG                                |
| 12   | 6T4209   | 1    | #10 O-RING PLUG                               |
| 13   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 14   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 15   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 16   | 31862    | 1    | RELIEF VALVE, 2175 PSI                        |
| 17   | 31593    | 4    | VALVE SEAL KIT (FOR ONE SECTION)              |
| 17A  | -----    | 2    | WIPER   |
| 17B  | -----    | 2    | O-RING SMALL                                  |
| 17C  | -----    | 1    | O-RING LARGE                                  |
| 17D  | -----    | 1    | SHUTTLE DISC                                  |
| 17E  | -----    | 1    | SPRING  |
| 18   | TB1017L  | 4    | LEVER KIT (FOR ONE SECTION)                   |
| 18A  | -----    | 1    | LEVER KNOB                                    |
| 18B  | -----    | 1    | LEVER   |
| 18C  | -----    | 2    | LEVER WASHER                                  |
| 18D  | -----    | 1    | LEVER CLIP                                    |
| 18E  | -----    | 2    | LINKAGE                                       |
| 18F  | -----    | 1    | LEVER PIN                                     |
| 18G  | -----    | 1    | ROLL PIN                                      |
| 18H  | -----    | 1    | LEVER BOOT                                    |
| 18J  | -----    | 1    | LEVER BOLT                                    |
| 18K  | -----    | 1    | LEVER DUST COVER                              |
| 18L  | -----    | 1    | LEVER NUT                                     |
| 19   | 31603    | 4    | COMPENSATOR                                   |
| 20   | TB1017U  | 1    | TIE ROD KIT                                   |
| 21   | 24214    | 1    | O-RING, LARGE                                 |

COMMON TRIPLE

# COOLER ASSEMBLY



COMMON TRIPLE

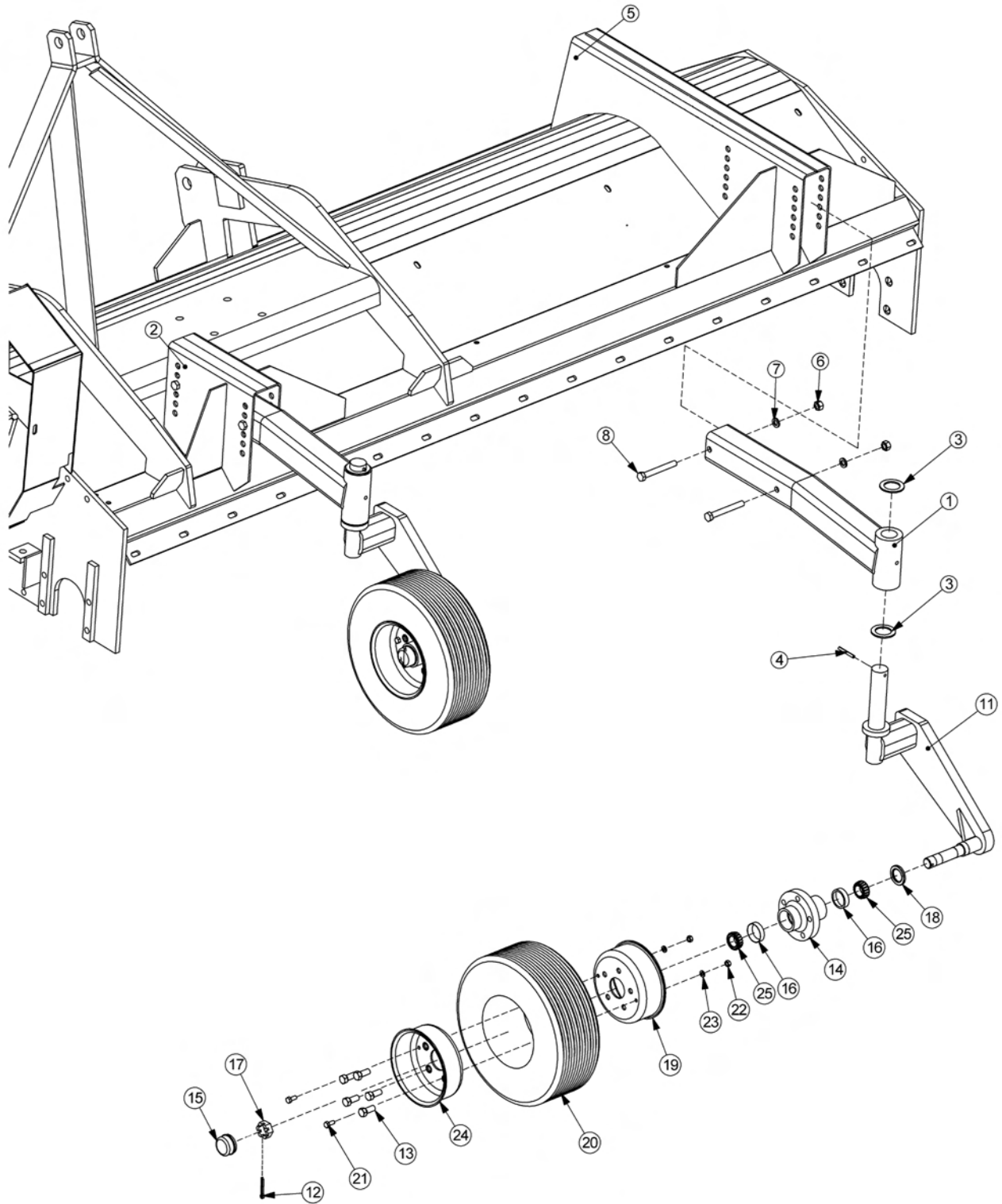
## COOLER ASSEMBLY

Continued...

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

COMMON TRIPLE

# CASTER WHEEL ASSEMBLY



COMMON TRIPLE



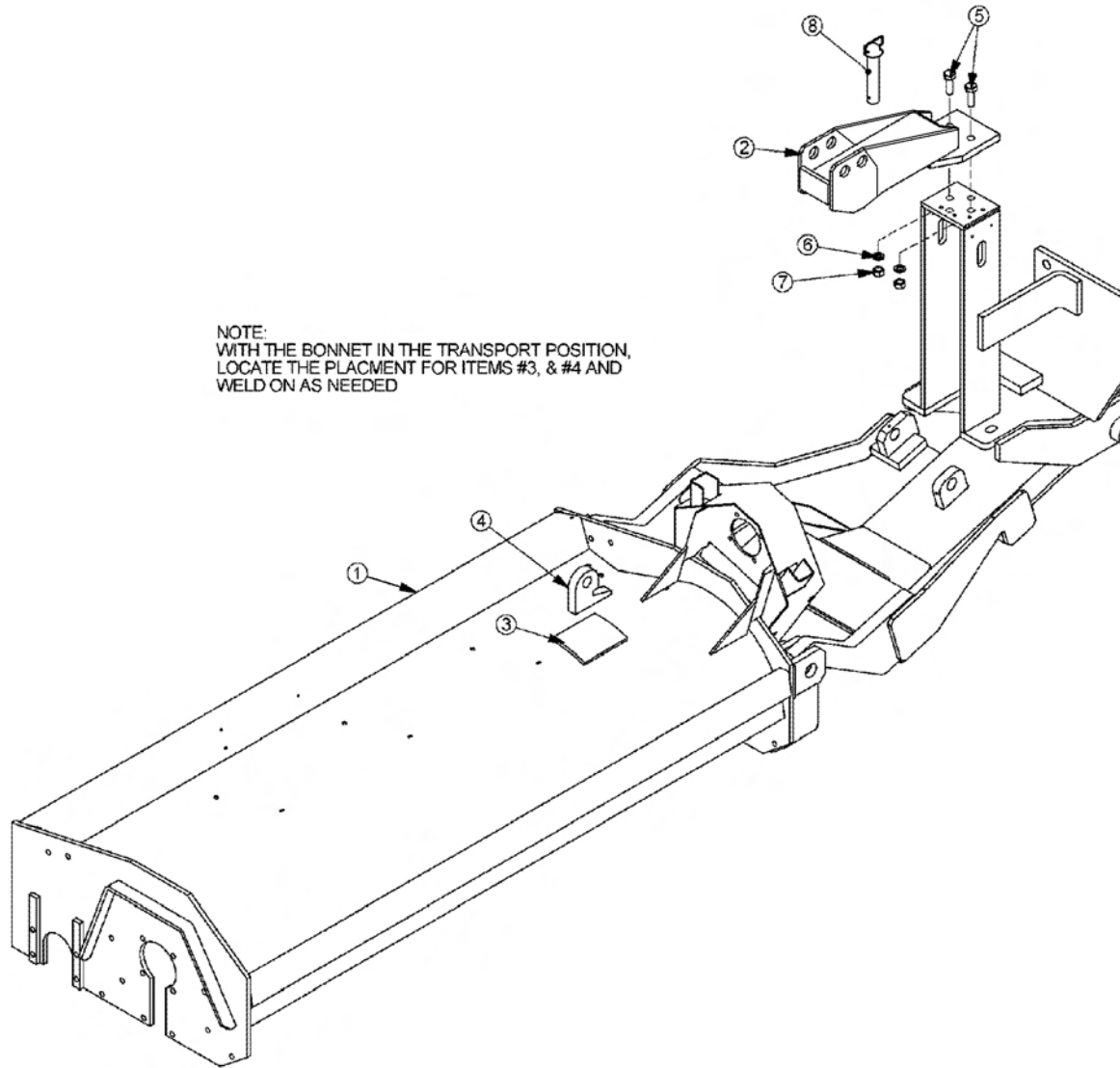
## CASTER WHEEL ASSEMBLY

Continued...

| ITEM | PART NO. | QTY. | DESCRIPTION                      |
|------|----------|------|----------------------------------|
| 1    | TF3060   | 2    | CASTER WHL ARM,FLAIL             |
| 2    | TF3052A  | 1    | BRKT,REAR CASTER ADJ,LF          |
| 3    | 6T2617   | 4    | BUSHING,MACH,1-1/2"ID X 2-1/4"OD |
| 4    | 6T3014   | 2    | ROLL PIN,1/4" X 2"               |
| 5    | TF3053   | 1    | BRKT,REAR CASTER ADJ,RT          |
| 6    | 21725    | 4    | HEX NUT,1/2",NC                  |
| 7    | 21990    | 4    | LOCKWASHER,1/2"                  |
| 8    | 21741    | 4    | CAPSCREW,1/2" X 5",NC            |
| 11   | 22057    | 2    | SPINDLE,CASTER AXLE,ASSY         |
| 12   | 22533    | 2    | COTTER PIN,3/16" X 2"            |
| 13   | 22071    | 10   | HUB STUD                         |
| 14   | 22066    | 2    | HUB,CASTER                       |
| 15   | 22070    | 2    | DUST CAP                         |
| 16   | 6T0836   | 4    | CUP,CASTER WHEEL                 |
| 17   | 22073    | 2    | HEX NUT,1",NF(SLOTTED JAM NUT)   |
| 18   | 6T0838   | 2    | SEAL                             |
| 19   | 22696    | 2    | RIM,REAR ROTARY CASTER           |
| 20   | 21416    | 2    | TIRE,SOLID,RR-RTRY               |
| 21   | 21579    | 4    | CAPSCREW,5/16" X 3/4",NC         |
| 22   | 21575    | 4    | HEX NUT,5/16",NC                 |
| 23   | 21987    | 4    | LOCKWASHER,5/16"                 |
| 24   | 22697    | 2    | RIM,OUTER/RR RTRY CASTER ASSY    |
| 25   | 6T0830   | 4    | BEARING,CONE,CASTER WHEEL        |

COMMON TRIPLE

## SIDE FLAIL TRAVEL LOCK

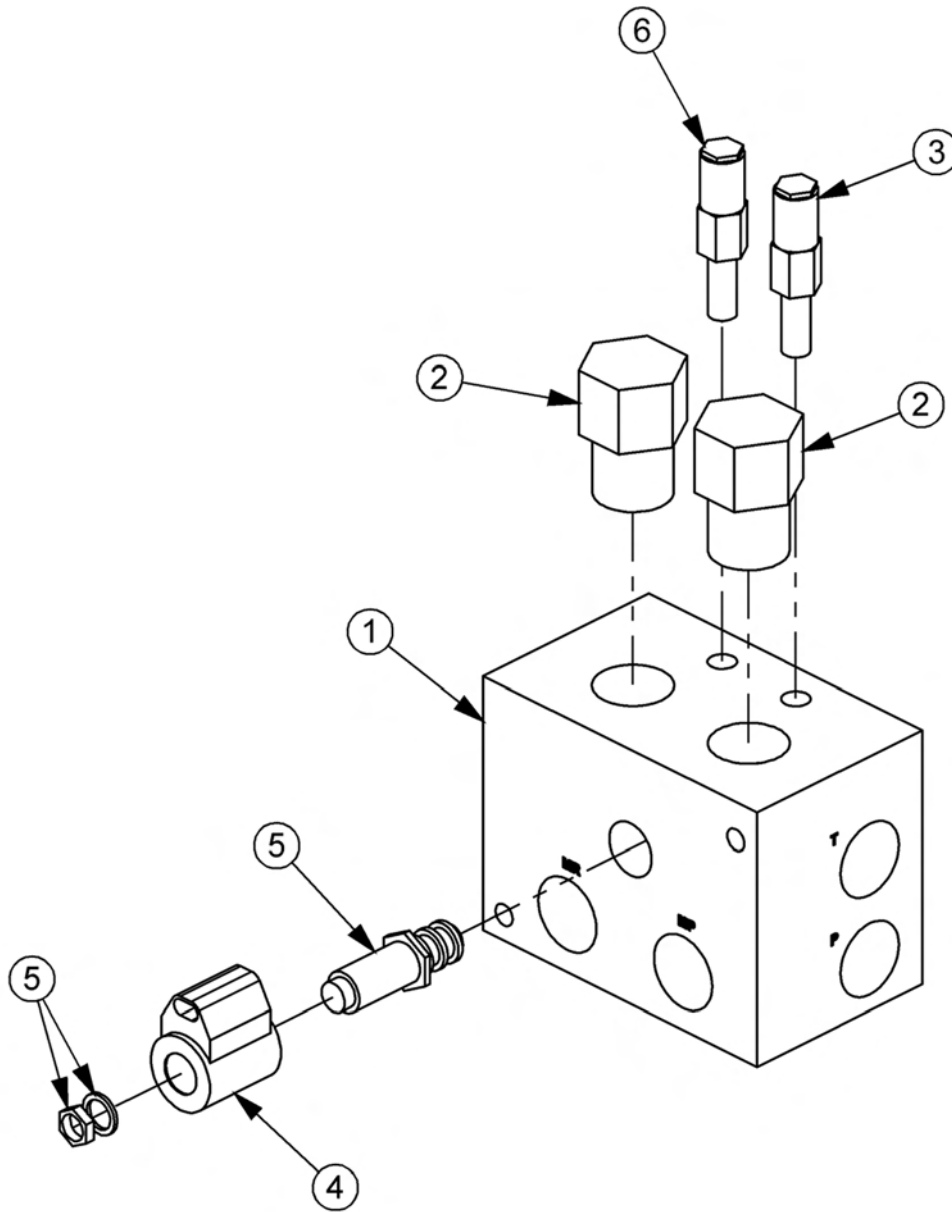


NOTE:  
WITH THE BONNET IN THE TRANSPORT POSITION,  
LOCATE THE PLACEMENT FOR ITEMS #3, & #4 AND  
WELD ON AS NEEDED

| ITEM | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|---------------------------------|
| 1    | -----    | -    | BONNET *REFER TO FLAIL ASSEMBLY |
| 2    | 28276    | 1    | BRACKET, TRAVEL LOCK, TRIPLE    |
| 3    | TF4248   | 1    | PLATE, TRAVEL LOCK              |
| 4    | 23745    | 1    | TRAVEL LOCK HOOK                |
| 5    | 21783    | 2    | CAPSCREW, 5/8" X 2" NC          |
| 6    | 21992    | 2    | LOCKWASHER, 5/8"                |
| 7    | 21775    | 2    | HEX NUT, 5/8" NC                |
| 8    | TF4250   | 1    | PIN, TRAVEL LOCK                |

COMMON TRIPLE

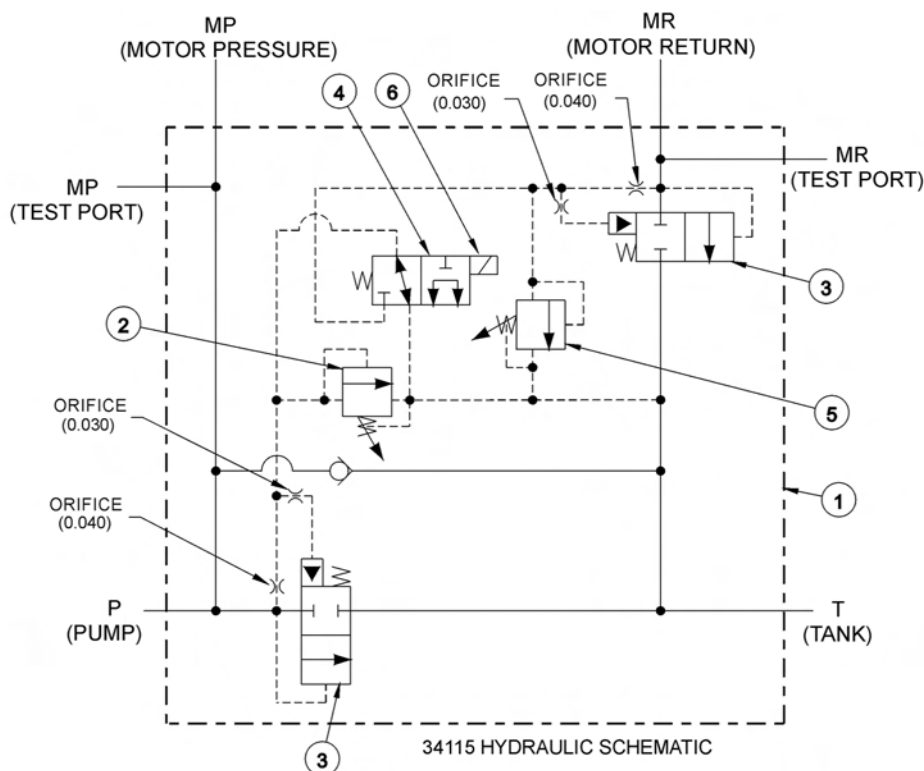
## BRAKE VALVE ASSEMBLY



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

COMMON TRIPLE

## BRAKE VALVE HYDRAULIC SCHEMATIC



### BRAKE VALVE TROUBLESHOOTING

#### FAILURE MODE:

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

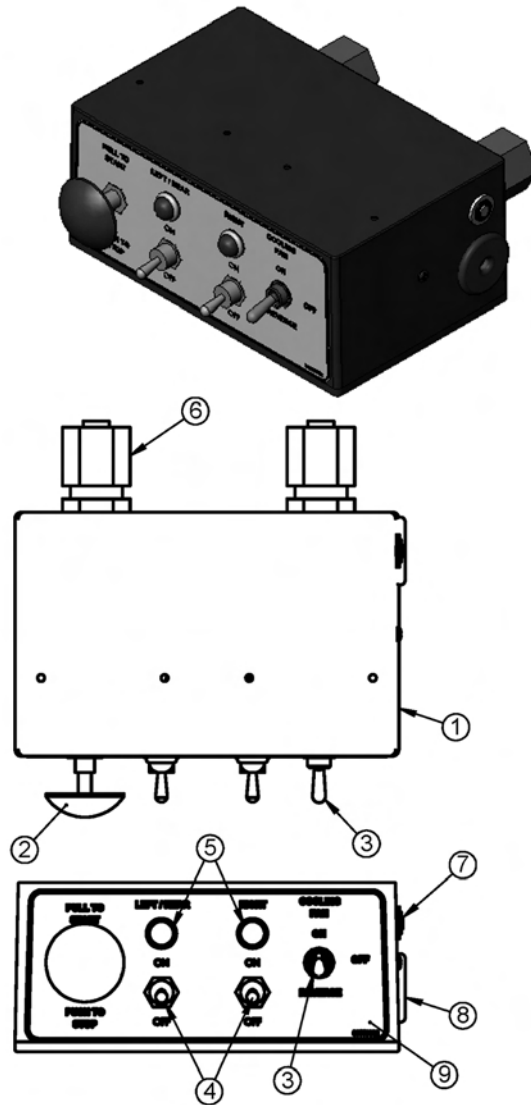
#### CHECK STEPS

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

#### CORRECTIVE STEPS:

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

## SWITCHBOX SERVICE PARTS

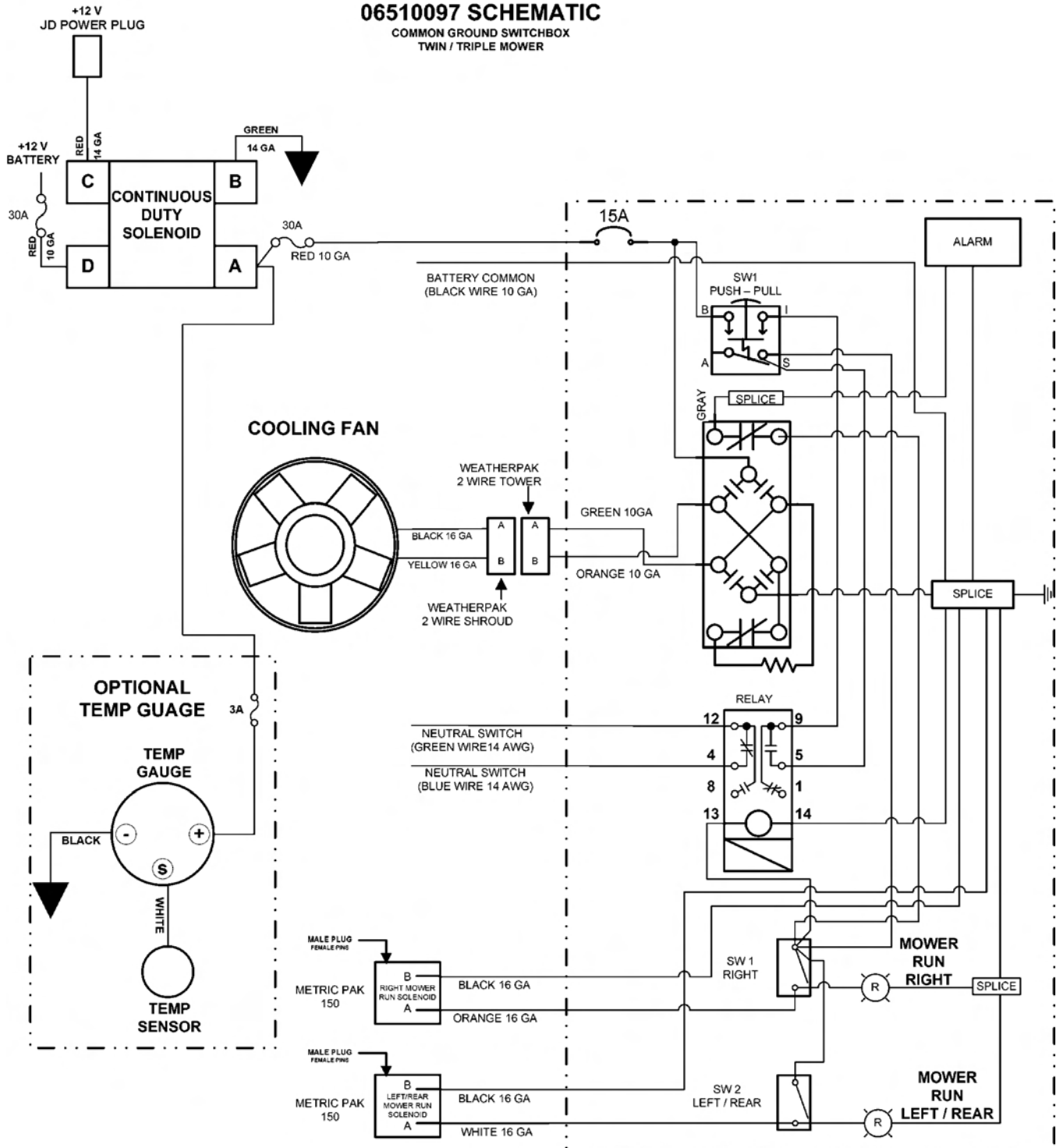


| ITEM | PART NO. | QTY. | DESCRIPTION                    |
|------|----------|------|--------------------------------|
| ---  | 06510097 | -    | SWITCHBOX ASSEMBLY             |
| 1    | 06514011 | 1    | SWBX,ALUM,BLK                  |
| 2    | 35226    | 1    | SWITCH,MOWER,COLEHERSEE        |
| 3    | 06510028 | 1    | SWITCH,FORWARD/BRAKE/REV       |
| 4    | 33811    | 2    | SWITCH,MASTER/DECK FLOAT       |
| 5    | 6T3923   | 2    | INDICTATOR LIGHT,ON,RED        |
| 6    | 34540    | 2    | STRAIN RELIEF,3/4,BLACK,NYLON  |
| 7    | 06514006 | 1    | BREAKER,15A,SWBX               |
| 8    | 06514015 | 1    | ALARM,SWBX,REVERSER            |
| 9    | 06550002 | 1    | DECAL,SWTCHBX,TWIN/T3F,REV FAN |
| 10   | 35227    | 1    | RELAY,DP,DT,12V,LY2F,35226     |

COMMON TRIPLE

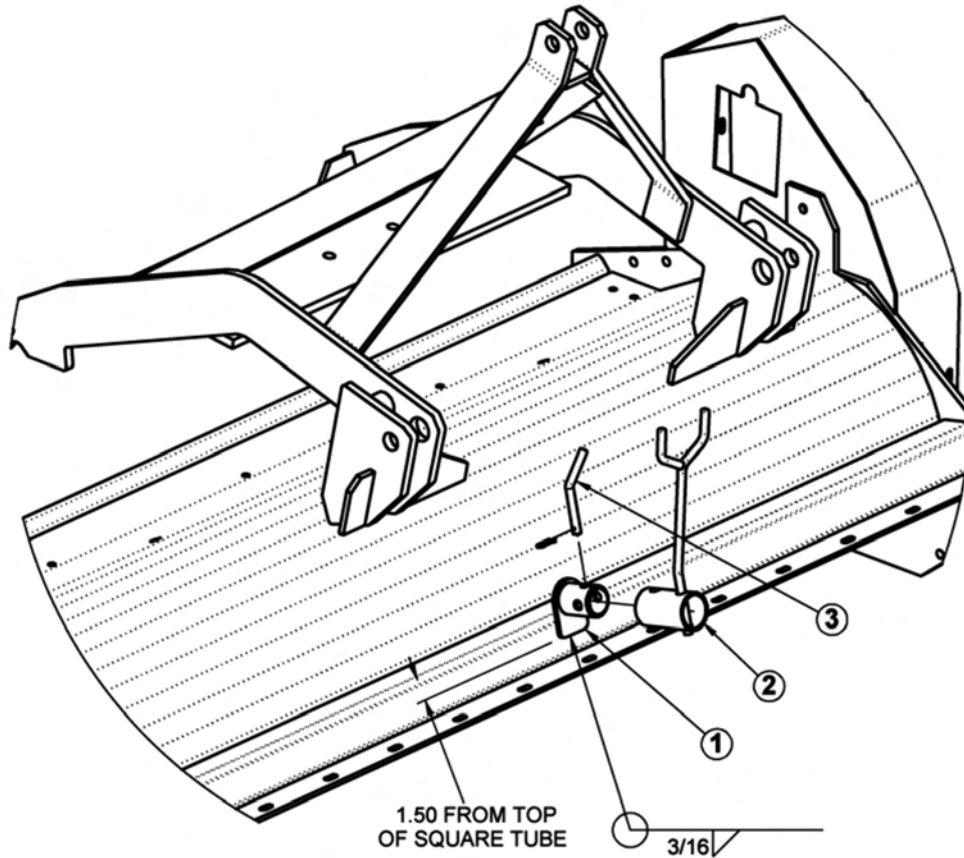
# SWITCHBOX SCHEMATIC

## 06510097 SCHEMATIC COMMON GROUND SWITCHBOX TWIN / TRIPLE MOWER



COMMON TRIPLE

# PTO STAND



**NOTES:**

1. LOCATE ITEM 1 ON TUBE AS SHOWN, CENTER ON GEAR BOX SHAFT.
2. WELD ITEM 1 AS SHOWN AFTER LOCATING
3. AFTER WELDING, PIN ITEM 2 IN PLACE WITH ITEM 3.

| ITEM | PART NO. | QTY. | DESCRIPTION        |
|------|----------|------|--------------------|
| 1    | 06370080 | 1    | BRACKET,SUPPORT    |
| 2    | 06370022 | 1    | SUPPORT,PTO        |
| 3    | 06520048 | 1    | PIN,BENT,W/ R-CLIP |

# NOTES



**WARRANTY  
SECTION**



## WARRANTY INFORMATION

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

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

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

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

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

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

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

## **ONE LAST WORD**

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



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

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

## TO THE OWNER / OPERATOR / DEALER



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

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

### **OWNER REQUIREMENTS:**

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

### **OPERATOR REQUIREMENTS:**

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



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