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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:	DISTRIBUTED BY:	
Tiger Corporation		
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Sioux Falls, SD 57107	1	
1-800-843-6849	1	
1-605-336-7900		
www.tiger-mowers.com		

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This symbol means: CAUTION – YOUR SAFETY IS AT RISK!

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

Tiger is a registered trademark.





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.



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.



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

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

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

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



PELIGRO!



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



i LEA EL INSTRUCTIVO!



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)



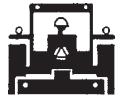
WARNING!



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



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)





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)

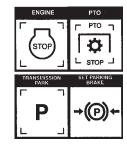


WARNING!

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. $_{\rm (SG-8)}$



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)





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





Never allow children to operate or ride on the Tractor or Implement. $$_{\rm (SG-11)}$$





Do not mount the tractor while the tractor is moving. Mount the tractor only when the tractor and all moving parts are completely stopped. $$({\rm SG-12})$$





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)



Start only from seat in park or neutral. Starting in gear kills.



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





Do not 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. Highpressure 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)



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)







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

WARNING!



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

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

- 1. Test the tractor at a slow speed and increase the speed slowly. Apply the brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this equipment.
- 2. Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that it is safe to operate at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground.
- **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) Twin Rtry Safety Section 1-5







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)



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





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

(SG-23)



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





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)



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)





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)



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



DANGER!



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

DANGER!

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

WARNING!



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



WARNING!



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

WARNING!



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

WARNING!

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

WARNING!



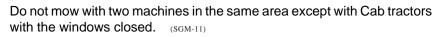
Do not put hands or feet under mower decks. Blade Contact can result serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-9)





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 SUBSE-QUENT FAILURE AND POSSIBLE SERIOUS INJURY FROM THROWN BLADES. (SGM-10)

WARNING!



DANGER!

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

STOP MOWING IF PASSERSBY ARE WITHIN 100 YARDS UN-LESS:

- -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. (SFM-6)

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!

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)



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)



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

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



There are obvious and hidden potential hazards in the operation of this Implement as in all power-driven or pulled equipment. REMEMBER! This machine is often operated in rough terrain conditions that include tall grass, weeds, gullies, holes, slopes, hidden obstructions and the like. Serious injury or even death may occur unless care is taken to assure the safety of the operator and bystanders in the area. Do not operate this machine with anyone in the immediate area. (S3PT-7)



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)





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



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!



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, cuttershafts, 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 <u>may</u> reduce mower performance, <u>void mower warranties</u> and present a safety hazard. Use genuine Tiger mower parts for economy and safety.



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)

DO NOT LUBRICATE WITH AUTOMATIC GREASE GUN. GREASE WITH HAND GREASE GUN ONLY. PART NO. LOCATION

22839 MOWER DECK



22840 INSIDE OF CAB

WARNING

INSPECT REAR FLAP FREQUENTLY TO BE SURE IT IS IN SAFE WORKING CONDITION. DO NOT OPERATE MOWER WITH FLAP REMOVED OR WORN. 24028 MOWER DECK



24028

10" x 5.5" 31522 MOWER DECK 18.25" x10" 31523 HYDRAULIC TANK

Twin rtry Safety Section 1-12



PART NO. LOCATION

42350 MOWER DECK

MOWING SAFETY TIPS I Read & understand the Operators Manual. Wear Your Seat Belt. ${\rm I}$ Keep all shields and guards in place. ▲> Make sure equipment is in proper working condition. $\hbox{I}\$ Never attempt to get off or on a moving tractor. Never allow riders on tractor or equipment. \blacksquare 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. Mever 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. 0 2 33743

33743 INSIDE OF CAB

> 42399 MOWER DECK

42400 MOWER DECK

Twin Rtry Safety Section 1-13

PART NO. LOCATION

6T3217 MOWER DECK



WARNING FOR SAFE OPERATION READ THE OPERATORS & MAINTENANCE MANUAL BEFORE OPERATING

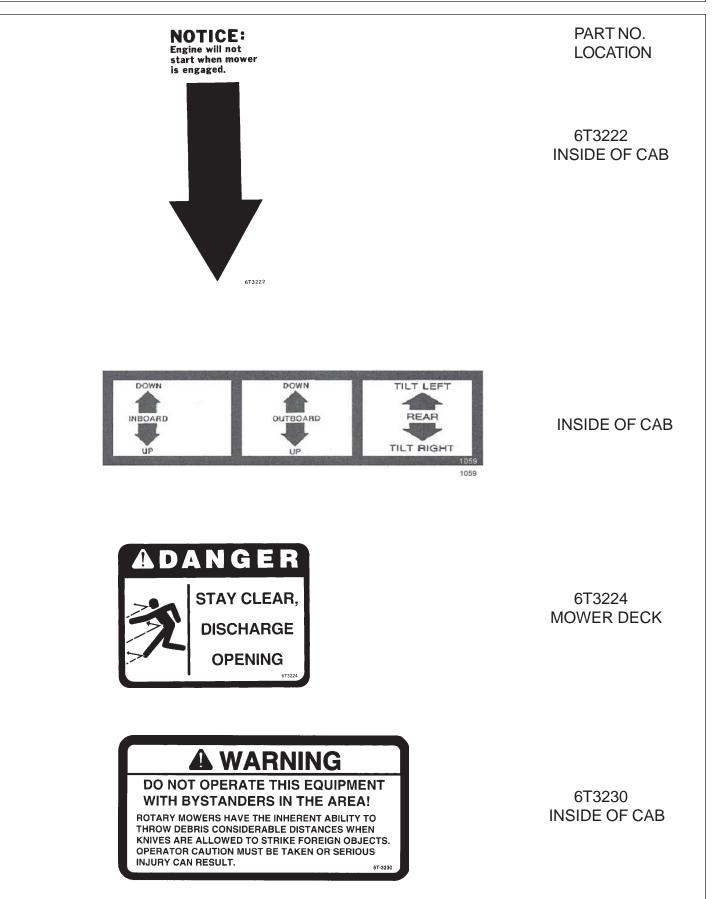
6T3219 INSIDE OF CAB

6T3220 FRONT PUMP MOUNT



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

NOTE: SEE OPERATORS MANUAL FOR SUBSTITUTE LUBRICANT AND MORE DETAILED INSTRUCTIONS. 673221 6T3221 INSIDE OF CAB



Twin Rtry Safety Section 1-15

6T-3233

6T3234

ACAUTION

DO NOT START OR RUN WITH VALVES CLOSED. (SERIOUS DAMAGE WILL OCCUR)

PART NO. LOCATION

6T3233 **HYDRAULIC TANK**



CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY **RESULT FROM IMPROPER MAINTENANCE.**

6T3234 **INSIDE OF CAB**



6T3236 MOWER DECK **HYDRAULIC TANK**

WARNING

IT IS RECOMMENDED THAT THE BOLT AND LOCK NUT BE REPLACED WHENEVER BLADES ARE REPLACED. REPLACE THESE ANY TIME THEY ARE DAMAGED OR WORN AS FAILURE TO DO SO CAN LEAD TO BLADES COMING OFF CAUSING SERIOUS INJURY OR DEATH.

IMPORTANT

WHEN REPLACING BLADES, IT IS RECOMMENDED THAT ALL BLADES BE REPLACED FOR PROPER BALANCE TO AVOID EXCESSIVE VIBRATIONS WHICH CAN DAMAGE SPINDLE ASSEMBLY. SEE YOUR OPERATOR'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS. 6T-324

6T3243 **INSIDE OF CAB**

PART NO. LOCATION

6T3249A

MOWER DECK

GREASING INSTRUCTIONS CUTTER SHAFT BEARING

GREASE EVERY 8 HRS. OR DAILY

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

6T3261 MOWER DECK

GREASING INSTRUCTIONS GROUND ROLLER BEARING

GREASE EVERY 8 HRS. OR DAILY

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



DO NOT OPERATE MOWER WITH SAFETY SHIELD REMOVED. TB1011 MOWER DECK

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Tiger Corporation

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

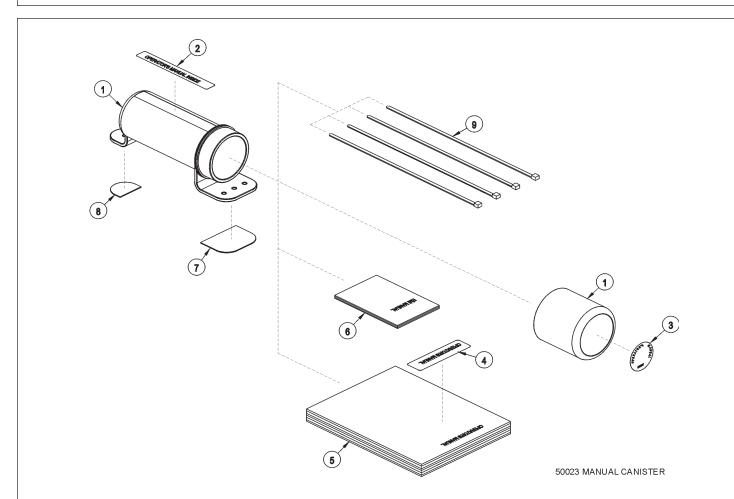
	General Specification	Recommended Lubricant
Reservoir	JD-20C	Mobilfluid [®] 424
Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobilfluid® 424 Mobil DTE® 25 Mobil DTE® 18M
Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC® 75W-90, Mobil 1 Synthetic Gear Lubricant
Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220
	Reservoir Reservoir Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun	ReservoirISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-WearReservoirPAO Synthetic Extreme Pressure Gear LubeGrease GunLithium Complex, NLGI 2 ISO 320Grease GunLithium Complex, NLGI 2 ISO 320

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Tiger PN 34852 O

34852 HYDRAULIC TANK

0



ITEM	PARTNO.	QTY.	DESCRIPTION
1	50023 00776031	AVAIL 1	MANUAL CANISTER COMPLETE ROUND MANUAL CANISTER
2 3	33997	1 * *	DECAL, SHEET, MANUAL CANISTER DECAL DECAL
4	*	*	
5 6	33753	AVAIL 1	SPECIFIC PRODUCT MANUAL E M I SAFETY MANUAL
7 8 9	34296 34297 6T1823	1 1 4	FRONT ADHESIVE PAD REAR ADHESIVE PAD ZIP TIE 14" LONG
3	011023	4	ZIF HE 14 LONG

NOTE:

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

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

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

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

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

OSHA Regulations

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

Employer Responsibilities:

To ensure employee safety during 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.)

ASSEMBLY SECTION

Assembly Section 2-1

Before attempting to mount your Tiger mower, it is important to read an understand all of the Safety Messages in the Safety Gection 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 **C**issembly Ùection instructions before attempting to mount your Tiger mower. Refer to the Úarts Ùection of this manual for detailed illustrations to locate all parts. (*ASM-C-0001*)

TRACTOR PREPARATION

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

(ASM-C-0024)

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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 Úarts Ùection. (ASM-NH-0050)

ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor ownerfs manual for adjusting tires and rims** to 72" center for side mounted mowers and 79.8" for boom mowers. NOTE: This may require switching the wheels to opposite sides of tractor. Also take note of any width restrictions when transporting by trailer. (For ease of installation, it is best to leave the rear wheels removed during installation of the mower.) (*ASM-NH-0051*)

FRONT PUMP MOUNTING

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

Thread the pump driveshaft into the crankshaft adapter. The end with the splines should match up with the coupler.

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 t@ead 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 driveshaft should be 1/16" to 1/8", and coupler should move freely with hand pressure. If end play is less than 1/16", grind the end of the shaft to achieve the proper end play. If there is more than 1/4" of end play, return the shaft with specifications for a longer shaft.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-NH-0024)

POLYCARBONATE SAFETY WINDOW

NOTE: Installing a boom mower requires that all of the right side windows be replaced, or protected with a polycarbonate window. This should be done before mounting the main-rame.

1. Disconnect gas shock at door. Remove the right side cab door/window glass from tractor cab by removing hinge pins. Also, remove rear right side window.

2. Remove the existing hardware, door handle and bar handle and discard factory glass door and window.

3. Place small bead of adhesive seal in the bottom of the trim lock bubble seal.

4. Install trim lock bubble seal on polycarbonate starting at the center bottom horizontal portion.

5. Install existing hardware removed from glass door and window on the polycarbonate.

6. Install the polycarbonate assembly in the cab with existing and supplied hardware as shown in the Parts Section.

7. Assemble corner bracket to the control stand inside the cab.

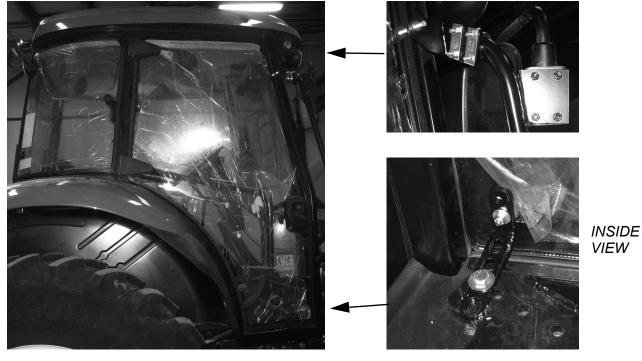
8. Locate and drill a Ø1/4" hole through polycarbonate, with a bit that is **only** used for polycarbonate, to match the corner bracket.

9. Assemble the bracket and tighten the hardware to secure the polycarbonate.

10. Assemble the clamp in the upper front corner by the mirror.

11. Adjust the clamp to achieve a secure hold.

12. Replace the rear corner window with the hardware removed from the window. (ASM-NH-0101)



Assembly Section 2-4

MAINFRAME INSTALLATION

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

SWITCHBOX WIRING

Route the green wires from the switch box to the bottom right corner of the instrument panel near window. Cover the wires from the switchbox with the provided plastic wire wrap. Locate the neutral safety switch wire (white with yellow stripe) in the i* } ition switch, under the cowl panel as shown below. Cut the neutral safety switch wire and connect the green wires from the switch box.

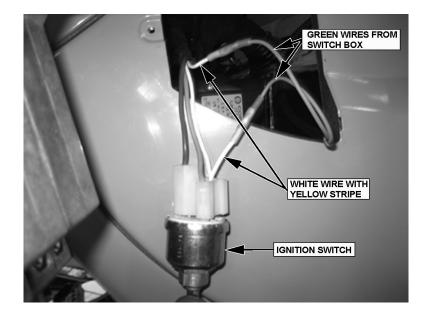
<u>NOTE:</u> ONLY FOR ELECTRONIC VALVE: +12 VOLTS ELECTRICAL POWER MUST BE TAKEN FROM A SOURCE LOCATION WHERE IT IS LIVE ONLY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THIS WIRE MUST BE FUSED AT THE SOURCE LOCATION.

Route the red 10ga and black 10ga wires from the switchbox to the auxilliary plug. Route the white and black wires to the hydraulic solenoid brake valve.

Route the orange and black wires to the travel lock on the main boom cylinder. Route the red 14ga wire, keyed hot, from the auxilliary plug to the signal post of the continuous duty solenoid if applicable.

The switch box is to be secured to the right side of the cable control bracket as shown in the Parts Section.

(ASM-NH-0121)

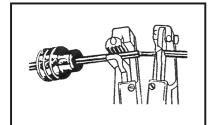


WEATHER-PACK/METRI-PACK ASSEMBLY

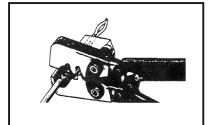
These instructions apply to both Weather-Pack and Metri-pack connectors.

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

(ASM-C-0009)



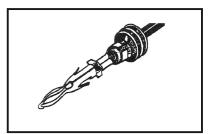
1. Apply seal to cable, before stripping insulation.



3. Put terminal in crimping tool, then

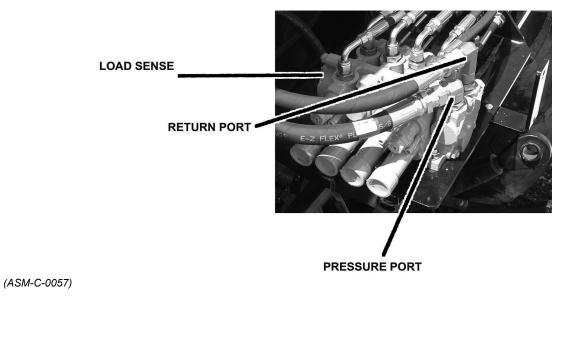


2. Align seal with cable insulation.



4. Crimp and visually inspect for a good

MANUAL LIFT VALVE PORTS



MANUAL SWITCHBOX MOUNTING

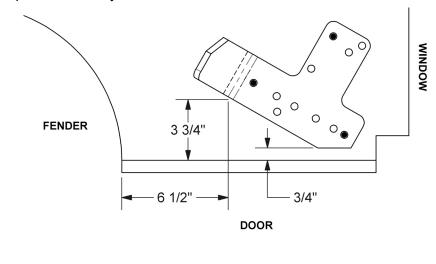
Drill a hole in the right side of the steering console and secure the switchbox using the bracket and screws provided. Refer to the Parts Section for more information. (ASM-NH-0139)



CABLE CONTROL/JOYSTICK STAND

Place the beveled edge of the support bracket 3/4" in parallel to the door. Locate the support bracket approximately 6-1/2" from the fender wall to the formed edge of the bracket as shown below. Be sure that the location of the stand will allow clearance between the cable control handles and all existing interior levers, etc. Also, watch out for wiring and brackets underneath the cab when placing the bracket for drilling.

Using the support bracket as a template, mark and drill the 3 holes highlighted below and secure with capscrews and nylock nuts noted in the Parts Section. (ASM-NH-0105)

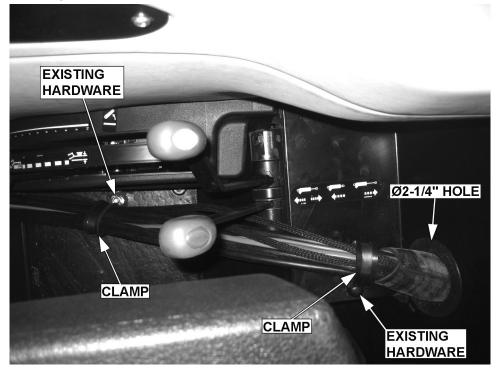


Assembly Section 2-7

LIFT VALVE CABLE/WIRE ROUTING

Cut a Ø2-1/4" hole in the back of the tractor cab as shown below. Install trim lock around the edges of the hole. Route the cables from the manual levers, or wires from the joystick, along with the wires from the switchbox along the floor out the back of the cab to the lift valve. Wrap the cables and wires with split hose at the point where they pass through the tractor wall and zip tie the split hose securely.

Use the existing hardware in the locations shown below to install the clamps (P/N 06520013).



NOTE ON HUSCO CONTROL VALVES

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

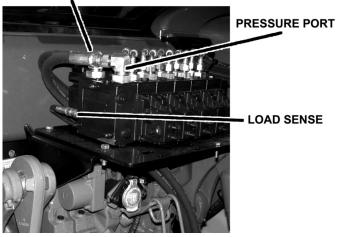


ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)

DANFOSS VALVE

RETURN PORT



LOAD SENSE

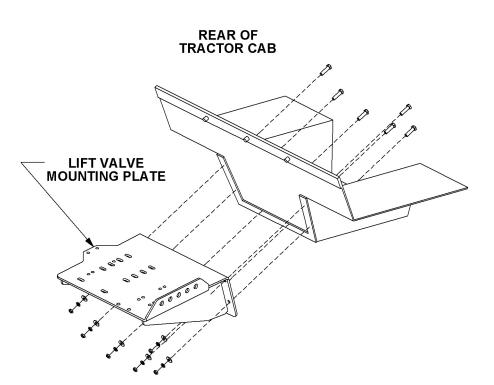
JOYSTICK SWITCHBOX MOUNTING

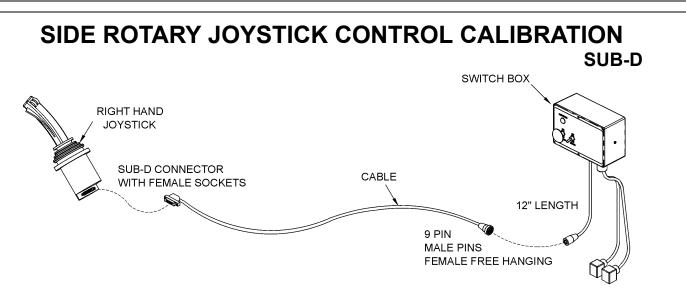
The switchbox is to be secured to the joystick/switchbox stand. Refer to the Parts Section for assembly and components needed. (ASM-NH-0137)



LIFT VALVE MOUNTING

Before mounting the lift valve, you will need to mount the Lift Valve Mounting Plate to the tractor cab. First, remove the capscrews from the tractor cab as shown below. Next, replace the capscrews and install the Lift Valve Mounting Bracket as shown below. Refer to the Parts Section for details and hardware needed. (*ASM-NH-0104*)





This Electronic control valve is now equipped with higher-resolution actuators on Inboard (Draft Beam) and Outboard (Mower Lift) functions. These actuators have "active fault monitoring". The joystick is unchanged and provides a ratio-metric voltage signal. The neutral signal voltage is half or 50% of tractor supply voltage. A 25% signal voltage will shift the valve spool to full "A-Port", and 75% signal voltage will shift the spool to full "B-Port" in both valve sections. If an actuator with active fault monitoring receives a signal from the joystick that is less than 15% or greater than 85% of supply voltage the actuator will "fault out" and shut down. Also, if there is an internal failure in the actuator or if the spool position is greater than that specified by the signal voltage from the joystick, the actuator will "fault out" and shut down. An "active fault" condition causes the actuator to drive the spool to neutral, shut down, and activate a "red" LED on the top of the actuator. The active fault can be canceled by simply cycling the Master Switch "OFF" and then "ON", which resets the fault monitoring, and causes the LED on top of the actuator be "green" again.

ACAUTION The joystick control is equipped with signal adaption potentiometers.

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

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

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

Set the dead band compensation potentiometer first.

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

SIDE ROTARY JOYSTICK CONTROL CALIBRATION (CONTINUED)

Setting Signal Adaptation Potentiometers:

Disconnect the Deutsch connectors from the actuators of the valve. Use a Volt/Ohm meter to measure signal voltage and adjust the signal adaptation potentiometers as needed. Pin #4 is tractor supply voltage. Pin #1 is signal voltage from the joystick, and pin #3 is ground. First, measure supply voltage between pins 4 and 3. Then measure signal voltage between pins 1 and 3 while indexing the joystick function fully in both the "A" and "B" port direction. Divide the signal voltage by the supply voltage to get signal voltage as a % of supply voltage. This percentage should not be less than 25% or greater than 75% for both functions.

Reconnect Deutsch connectors on control cables to actuators on Electronic valve. Run tractor until hydraulic system is at operating temperature. Now refine the adjustments of the signal adaptation potentiometers for both "A" and "B" ports for all proportional functions to achieve the following function times. Note: turning potentiometer clockwise increases the flow or the function speed, and turning them counter-clockwise decreases the flow or the function speed. Note, if during this procedure the trim potentiometer is set to full "counterclockwise" but the function is still too fast, use the mechanical stops at the manual actuator end of the valve section to further limit flow. Turn limit screw in or clockwise to limit flow. The upper limit screw limits flow to "B-port", and the lower limit screw limits flow to "A-port".

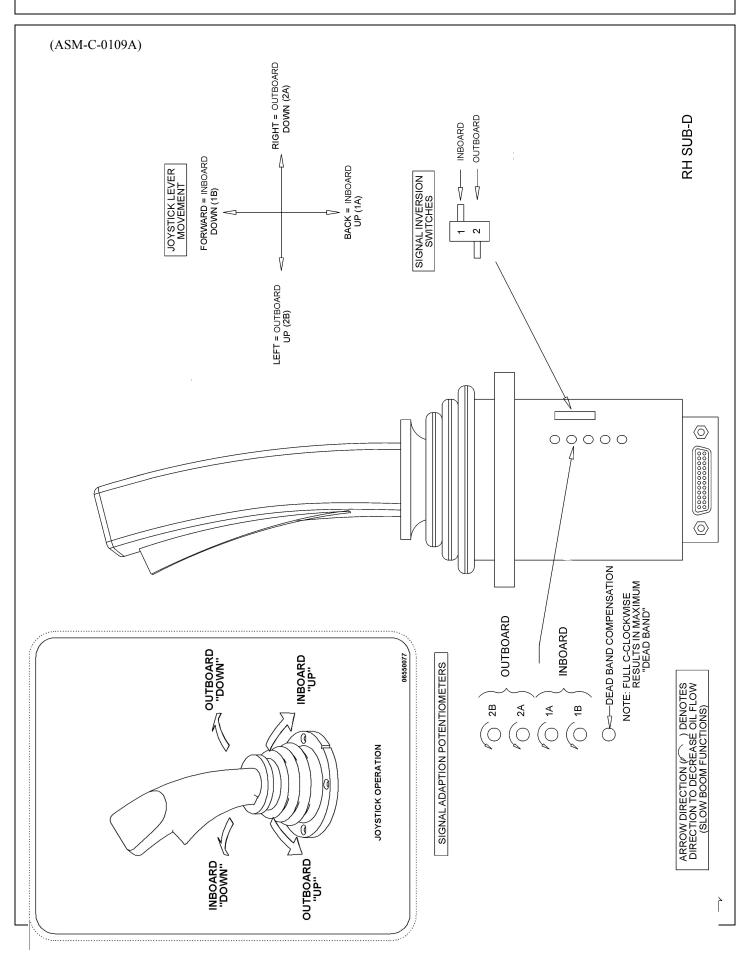
INBOARD: "A" Port, Inboard Up: 4-6 Seconds (*Note: Lower Draft Beam completely. Now index Inboard control "up" function and determine the time required to raise the Draft Beam completely.*)

"B" Port, Inboard Down: 4-6 Seconds (Note: Raise Draft Beam completely. Now index Inboard control "down" function and determine the time required to lower the Draft Beam completely.)

OUTBOARD: "A" Port, Outboard Down: 9-11 Seconds (Position mower head full up. Then index the outboard control "down" function and determine the time required for mower head to go down completely.)

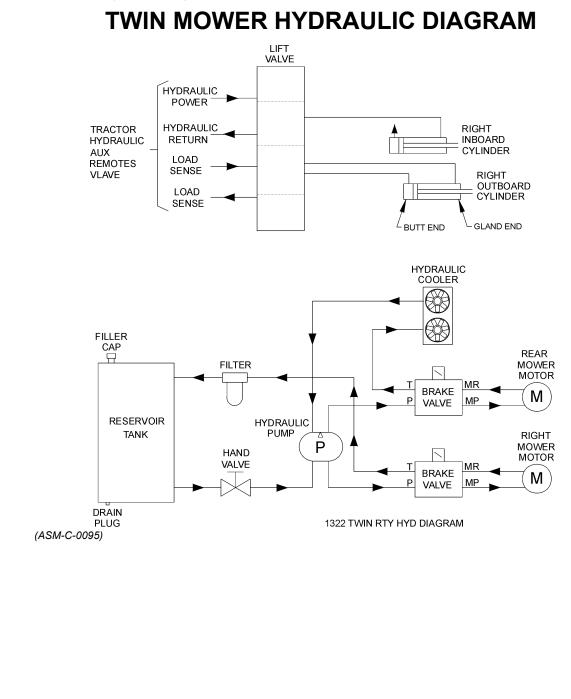
"B" Port, Outboard Up: 9-11 Seconds (Position the mower head full down. Then index the outboard control "up" function and determine the time required for mower head to come up completely.)

(ASM-C-0109)



AXLE BRACE MOUNTING

Position the right axle brace under the tractor right hand side. Raise the brace up to the matching mounting holes in the main-lame and rear axle housing. Note that both right and left (if applicable) axle braces are installed on outside edge of the mainframe. Install the axle brace with capscrews, washers and nuts as shown in the mainframe Úarts Úection. Apply Loc-Tite to the threads and torque to the values noted in the torque chart located in the Maintenance Section of this manual. (ASM-NH-0033)



SIDE HYDRAULIC TANK INSTALLATION

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

Place the tank in the mounting bracket on the mainframe as shown in the Parts Section. Secure the tank with the tank channel mount by placing the channel mount on top of the tank and the washers over the holes. Thread the tie bolts through the washers and holes to the threaded holes on the mainframe. Tighten the tank channel mount by using the hex heads on the end of the tie bolts.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. The tank breather cap is ready for use as the tank is filled. Some of the for^metioned items may be already installed. (ASM-MOTOR HYDRO-0001)

FILLING HYDRAULIC RESERVOIR

Refer to the T aintenance Ùection 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)

GENERAL HOSE INSTALLATION

Refer to the Parts Section for detailed information about hoses and fittings for this application. (ASM-C-0011)

SOLENOID BRAKE VALVE

Install a solenoid valve on the right riser plate of the mainframe with the supplied hardware as shown in the Parts Section in this manual. While installing the fittings to the brake valve, the electical 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-0106)

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)

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 Úarts Ùection with provided 3/8" x 1" capscrews, lockwashers, and hex nuts.

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

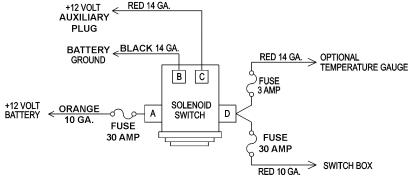
A.) ORANGE 10 GA. wire from terminal (A) to +12V battery fusible link.

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 - SIDE TANK

Mount the cooler mounting brackets on the top rear side of the side hydraulic tank. Locate the 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 attach the hoses and adapters to the cooler. (ASM-C-0092)





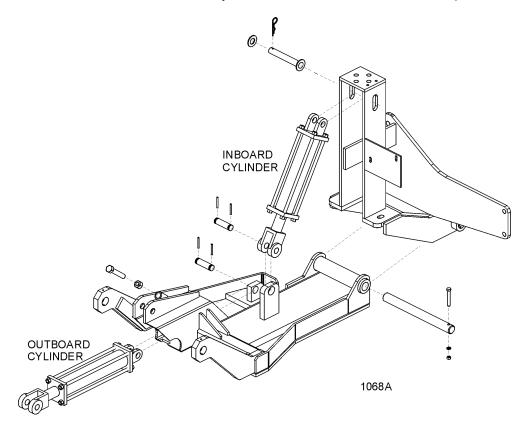
COMBO LIFT DRAFT BEAM INSTALLATION

Install ¹/₂" 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 mainframe mast with the pin, flat-washers and R-clips as shown below. Use teflon tape on all fitting and hose connections.

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



DRAFT BEAM MOUNTING

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

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

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.

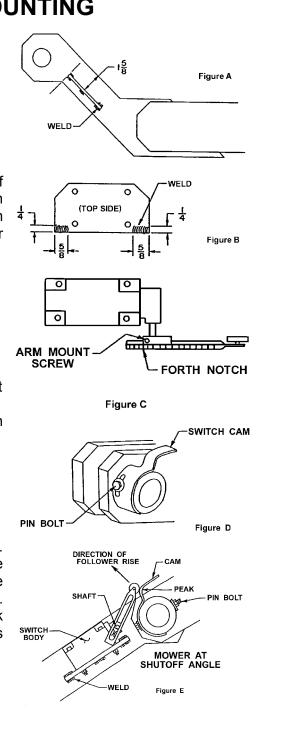
ADJUSTING LIMIT SWITCH

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.
- 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)



LIMIT SWITCH

(ASM-C-0029)



TRAVEL LOCK MOUNTING

Install the travel lock bracket on the main frame. Slide the draft beam and align the travel lock mounting hole on the draft beam with the travel lock bracket hole on the mainframe. Install the capscrew, lockwasher and hex nut.

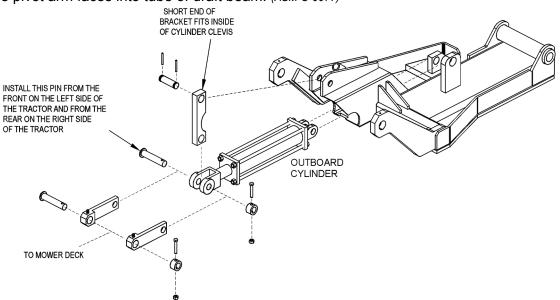
Raise the deck/flail to it's upright position (Deck ear touches to stop bolt). Drill a 13/16" hole in the deck/flail ear through the draft beam tangs. Insert the supplied pin and clip through the hole. (ASM-NH-0138)



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, capscrew, 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, capscrew, lockwasher, and hex nut (both sides). See Úarts \hat{U}^{a} 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, capscrew, lockwasher 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 noncab 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)

TWIN ROTARY MOWER INSTRUCTIONS

HOW TO REMOVE REAR MOWER

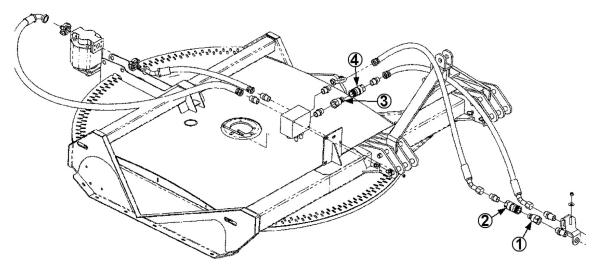
- 1. Rest rear mower so ground supports it front and rear.
- 2. Turn tractor off. There should be no hydraulic pressure in hoses at locations 1,2,3 and 4.
- 3. Disconnect 2 from 1.
- 4. Disconnect 3 from 4.
- 5. Connect 4 into 1.
- 6. Connect 2 into 3.

<u>CAUTION:</u> 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.

<u>CAUTION:</u> NEVER DISCONNECT ONLY 2 FROM 1 WITHOUT CONNECTING 4 INTO 1.

CATCH AND CONTAIN ANY HYDRAULIC OIL WHEN DISCONNECTING FITTINGS.

(ASM-C-0033)



3-POINT DECK TILT CYLINDER

Remove the support cylinder from the left rear 3-point arm and replace with the cylinder, clevis ends, and pin furnished in the kit. See Parts Section for parts and assembly.

DECK / MOTOR FEEDLINE

Install the 1" hoses from the motor to the solenoid valve. Refer to the Úarts Ùection 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 T aintenance Uection. 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 ³/₄ stroke repeatedly to clear the lines of air. <u>DO NOT</u> 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)

STOP BOLT ADJUSTMENT

Extend the outboard cylinder all the way out. Adjust the stop adjustment bolt (located on the top of the draft beam) out until it is up against the bonnet. Lock the bolt down with the $\frac{3}{4}$ " hex nut.

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

Proceed to final preparation for operation instructions on the next page. (ASM-SIDE MNTS-0003)

FINAL PREPARATION FOR OPERATION

Place operator's safety and operation decals on the steering column and side console where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the Safety and Operation Sections of this book. The decals are to be maintaaned in good condition as a reminder to the operator, and should be replaced if damaged.

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

AWARNING

BEFORE starting or operating the tractor you must read and understand the Safety and Operation Sections of this manual completely.

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

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

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

MOWER TESTING

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

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

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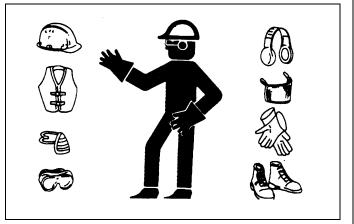
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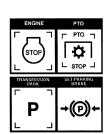
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- ‴Š[&æe∿Ác@°ÁÚVUÁ&[}d[|ÈÁ
- ‴Š[&æer^Ác@∘Á+HË][∄]cÁ@ãa&@Á&[}d[|Á(^ç^¦È
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6 YZcfY`glUfh]b[`h Y`lfUWcf`Ybgi fY`h Y`Zc``ck]b[.``

- ‴Ô[}å`&oÁseļÁ,¦^İ=`cæloÁ,]^¦æaā[}Á\$j•]^&cā]}ÁsejåÁ<^¦çã&^Áse&&{[¦åā]*Á{[Ác@^Ás!æ&d[¦Á[]^¦æa[¦qrÁ[æ]`a¢HĂ
- ‴ Tæ\^Á`¦^Áæ|Á``æ\å•ĒA @A\|å•ĒAsē) å/į c@\'Áæ^ĉ Ás^ça&^•Áx4^&`¦^|^Áş, Á|æ&^È
- ‴ V@∿Ájæa\āj*Ási¦æa∖^ÁasÁ;}ÈÁ
- ‴ V@^ÁÚVUÁ&[}d[|Á(^ç^ÌÁáāA&ãa^}*æ*^àĎA
- ‴ V@?Á+HË,[ā);cÁ@aa&@Ás[}d[|Ár¢r\Áa;Ás);Ác@?Á[,^¦^åAj[●ãaā]}È
- ‴ V@^Á@^妿ĕ|a&Á^{[c^Á&[}d[|Á^ç^¦∙Áæ<^Á§iÁ∞@^Á,^`dæ†Á[•ãa‡i}È
- ‴ V@^Átæ&q[¦Átæ)•{ã•ą]}Á^ç^¦•Áæh^ÁşA,æh\Á;¦Á^čdæ)ÉÅ

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OE-cʰ¦Ác@Át'æsko[¦Át}*ā]^ÁšērÁ`}}ā]*Éžeeç[ãåÁæs&ãå^}cæplÁko[}cæskoÁ,ão@kb@Át'æsko[¦Át'æ}•{ã•ā[}Át[Á;¦^ç^}oÁ*`åå^} æ)åÁ`}^¢]^&c^åÁt'æsko[¦Át[[ç^{ ^}cA*]

vy Qeáüuvoeüÿ

U]^¦æaāį}ÂÛ^&cāį}ÁHË



UcæboÁslæ&oflÁ[}{}`(Á;)^A}@?}Á;[]^\|^A;AæcÅåAşbÁc@ÁV¦æ&d[¦Á;}^&@£ÄÄbbac%Asbac}*Áæ | dæ&d[¦ÁşjÁ*^æbÁ&æ}ÁA^•`|oÁşbÁşbਠ`!^Á;lÅs^æe@£ÄÜ\^æbÁ©AV¦æ&d[¦Á;]^¦æ&[+ { æ}`æþÁ[¦Á;[]^\Ácæbagi*Áş)•d`&aa[}•ÉXépõ⊞+D

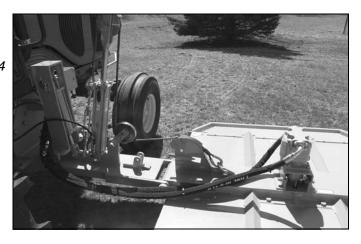


<u>*"7CBB97H=B;"H<9`ACK9F`HC`H<9`HF57HCF</u>

₩•^Á^¢d^{ ^Á&æč cā[} Á, @} Á&[}} ^&ca] * Ác@ Á([, ^¦Á[Ác@ Átæ&d[¦ĚÁ/@ Á[[, ^¦Á:@,`áka^á:^&`¦^|^Á.•ca] * Áæc *¦[`}åÁ^ç^|Á;¦Á:^ca] * Á;} Áa|[&\•ÈÁS^^] Á@a) å•Áæ) åÁ^^cÁ'|{ { Á} å^\Ác@ Á([, ^¦Áa^&\Áæ) åÁ&|^æ4Á; -Á,ā] &@Á[]ā,œ à^ç ^^} Ác@ Átæ&d[¦Á@a&@æd{ •Áæ) åÁ([, ^¦Á;ā] •ĚÁOPS-R-0001

<u>*'%7cbbYWF]b['AckYf'<mXfUi`]Wg</u>`

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VY OD ÁÜU VOLÜŸ

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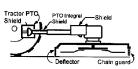
VY QDÁÜUVOLÜŸ

A DANGER

AWARNING

U]^¦æaāį}ÂÛ^&cāj}ÅHË







<u>+'%HfUWfcf`DfY!CdYfUhjcb`=bgdYWfjcb#GYfj]WY</u>

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- ŰŬ~-a8aa°}oÁĭà¦a8aæaāį}Áx∞áxa¢ļÁĭà^Á;[ā]o•
- (Dā Áāc' \ Áš \) & ãāā \ ÁOPS-U-0030



<u>+"&`AckYf`DfY!CdYfUh]cb`=bgdYWh]cb#GYfj]WY</u>

Ó^-{¦^Á>æ&@Á{[, ^¦Á•^É&æ&&[{]|^c^Á§•]^&cā[}&e]^&cā[}&e]^&cā[}&e]^^&a^A^\çã&^Á§ Á^^`ă^åAţ[Á^}•`¦^Ác@A{[, ^¦Á§ Á§ Áæ&*[[å/æ)å •æ^Á{[¦\]]*Á&[}åãā[}ĚÁÖæ¢ æ*^å/æ)å⊕[/Ási[\^}Á]æoA{@`|å/ás^Á^]æā^å/æ}åÆ]åÆ]ÅA[]æ&^åA§[{ ^åãæe^|^ĚÁA[^}•`¦^Ác@A{[, ^!/ás Á^æå^Á{[!A[]^!æā]}É&{[}å`&A⁄s@A{[|[,]]*ÉAOPS-*R-0007*

AWARN IN G

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VY OÞÁÜU VOEÜŸ

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´ Ò}•`¦^Áæd|Á æ∞°c´Á:ã}•Áæd^Á5jÁ,|æ&2^Áæd)åÁ(^*ãa|^È Ü^]|æ&2^Á {ã•ē}*ÉA åæ{ æ*^åÉA æ)åÁ§i|^*ãa|^ å^&懕ÉÁOPS-U-0011_A



NOTE: The mower Operator's Manual and affixed Decals contain important instructions on the safe and proper use of the mower. Maintain these important safety features on the mower in good condition to ensure the information is available to the operator at all times.

ØUCET OACEUUOT OSY

- ‴ Q•]^&o%&[}åããą]}Áį́-Áį [č]ċāj*Á+¦æą{^Á, ^|å{^}ċÈ
- ‴Q•]^&o4&[}åãā[}Á[-Á¦æ{^Á0e•^{`à|^È
- (Ď) ` ¦^Átel Átel [o Áte) åÁt & ⟨, Átel Át J [•ãta] } Átel å æb ^ Á, |[] ^ || ^ Át [' ` ^ åÈ
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▲WARNING ↓ c^\;Aæec^{] cAt[At`à¦ä&æec^Eæeåb´•dEt,\;A^{ [c^At] æec^¦ãæehA+[{ Ac@ AQ] |^{ ^} c^ @ah^ão/ãe A5, { [cāt] { Át; ¦Á @ah^Átjæ&d[¦Át} * āt ^ /áe Át`} } āt * ĚÁtyjö tiben

VY OD ÁÜU VOEÜŸ

U]^¦æcāį}ÂÛ^&cāį}ÂHËF

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PYOUCENSQUASCE OACE UUOOVQU Þ

- ´Q•]^&oÁx@Á&[}åããã[}Áį́-Áx@Açaaçç^Á;^|å{^}dÈ
- Ò}•`¦^Áãcãj*ÁšrÁj¦[]^¦|^Á&[}}^&c^å
- (, Q,•]^&oÁ&[}åããą]}Áį́,~Áà`•@äj*•ĖÁÁÓPS-R-0100_A







VY ODAŰU VOEŰŸ

U]^¦æqāį}ÂÛ^&cāį}ÁHËFG



ŰU VOEÜŸÁR ÒOEÖÁQÞ ÙÚÒÔVQU Þ

- Q•]^&o/\u00e9alash^• Ása} å Á\u00e9alash/&u[|or Á[¦Á[[•^}^^•• a) å Á\u00e9c&\u00e9a å Á\u00e9c&\u00e9a å Á\u00e9c&\u00e9c&\u00e9c
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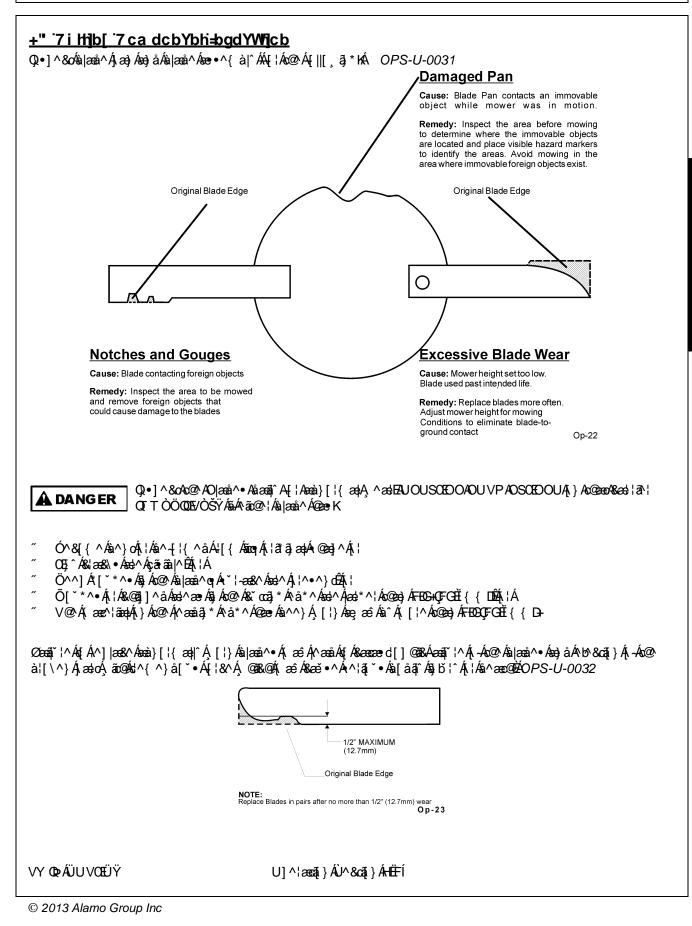
‴ Q•]^&oÁv@Á&[}åãāā[}Á(ÁsåA&\Á\ãâÁ@[^•Áæ)åÁ@æåå,æhÀĖOPS-R-216

AWARNING

O[A][O], `O]@ee)å•A[, |A^^O]; A^A^A; A[[, ^|A^A^A]; A[A][, ^|A^A^A]; A[A][, ^|A^A^A]; A[A^A];


VY O⊋ÁÜU VOEÜŸ

U]^¦æaā[}ÂÛ^&cā[}ÅHËFI



<u>+"(`6`UXY`6c`hi=bgdYWF]cb</u>

Q,•]^&o∕Ó|æå^ÁÓ[|o⁄₽^æåÁåæaĵî Á[¦Á,^æłÁæ Á[||[,^åK

Excessive Blade Bolt Wear

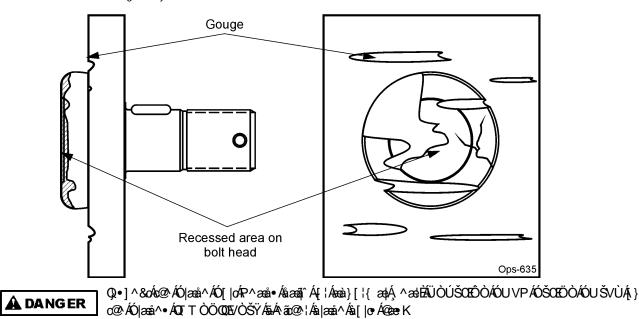
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

Remedy: Inspect the area before mowing to determine where the foreign objects are located and place visible hazard markers to identify the areas where immovable foreign objects exist, and avoid hitting the objects.

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

Remedy: Inspect area to be mowed and remove foreign objects that could cause damage to the blade bolt.



- ‴Xãrãa|^Á&¦æ&∖∙Á(¦Á
- ‴ QÁo@Á^&^∙•^åÁsd^æ/ឦ{}Áà|æå^Áà[|dáa;Á́[¦}Áį~~Á;¦Á
- ″ Q4Ó |æå^ÁÓ[|cÁ@æ•Á*[`*^•Á¦¦Á&@a]]^åÁse^æÈ

5 k Ung f Yd WY 6 UXY 6 c hg k jh bYk Vc hg k YbYj Yf f Yd Wyb[h Y 6 UXYg % PS-U-0037

VY OD ÁÜU VOEÜŸ

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Tractor PRE-OPERATION Inspection Mower ID# Make Date: Shift 6 YZcfY WcbXi Wijb['h\ Y']bgdYWijcbža U_Y'gi fY'h\ Y'lfUWicf'Yb[]bY']g'cZZU`'fcHUijcb AWARNING \Ug`ghcddYX`UbX`h\Y`hfUWhcf`]g`]b`dUf_`k]h\`h\Y`dUf_]b[`VfU_Y`Yb[U[YX''AU_Y`gifY h\Y`ackYf`]g`fYgh]b[`cb`h\Y`[fcibX`cf`gYWifY`miV`cW_YX`id`UbX`U``\mXfUi`]W dfYggi fY`\ Ug`VYYb`fY`]Yj YX" Condition at Start **Specific Comments** Item of Shift 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

Operator's Signature:

The brake fluid level is full

The fuel level is adequate

The radiator is free of debris The air filter is in good condition

The power steering fluid level is full

The engine coolant fluid level is full

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

VY OD ÁÜU VOEÜŸ

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CD9F5HCB

]	Rotary Mower PRE-	OPERATION	N Inspection			
	Mower ID#		Make			
Date:		Shift				
AWARNING ghcdd a ck Yf	″WcbXiWNjb['ŀ\Yʻ]bgdYWNjc /X'UbX'l\YʻhfUWhcf`]gʻ]bʻdU "]gʻfYgh]b[ʻcbʻl\Yʻ[fcibXʻ Y`]YjYX"	Jf_`k]h\`h\Y`dUf_	_]b[`VfU_Y`Yb[U[YX‴AU_Y`gi fY`h\Y		
Table 1:						
Item			Condition at Start of Shift Start of Shift	Specific Comments if not O.K.		
The Operator's Manua	al is in the canister on the	mower				
All safety decals are in						
The hitch connection bolts & pins are tight						
There are no cracks in	1 0					
The hydraulic cylinders pins are tight						
There are no leaking or damaged hoses						
The mower deck is clear of cut grass and debris						
Chain guards/deflector	rs are in place & in good of					
Blade carrier retaining	g nut is tight					
Blades are not chipped	d, cracked or bent					
Blade bolts are tight						
Wheel lug nuts are tight						
Transport locks are in	good condition					

Operator's Signature:

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

VY O⊋ÁÜUVOEÜŸ

U]^¦æqāį}ÂÛ^&caį́}ÁHËÈÌ

DRIVING THE TRACTOR AND IMPLEMENT

æ) å Ásilæ).^• Áse^ Ási Át [[å Ási]} å ãããi } Áse) å Ái]^!æe^ Ái []^!|^È

Ùæ^Átæst[¦Átæ)•][¦dÁ^˘ă^•Á@Ą́]^¦æt[¦Á][••^••ÁœÁ@Į'[`*@Á}[, |^å*^Ą́, ÁœĄ́([å^|Áa^ā)*Ą́,]^¦æt*åÁæ)å]¦^&æčqī}•Át[Áæa^Á, @ap^Ás¦āçā)*Á, ão@ásej Áseccæs@åÁtī]|^{ ^}dĚÒ}•`¦^Ás@Átæstd[¦Áœe Ás@Ásæa]æsäĉÁt[Áœa)å|^Ác@ _^ã @Ą́, Ác@Atī]|^{ ^}ofæjåÁs@Átæstd[¦Á]^¦æetā]*Ás[}d[|•Áset^ÁroÁ[¦Áræ^Átæ)•][¦dĚÁM[Ár}•`¦^Áræ^ĉÁ;@ap^ å¦āçā]*Ás@Átæstd[¦Ájãs@ásej Áseccæs&@åÁtī]]^{ ^}dĚÁ^çã, Ás@Át[|[,ā]*ĚÁOPS-U-0012

A DANGER

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Ó^-[¦^Ád;æ)•][¦æ];*Ás@:Áv¦æ&q[¦Áæ);åÁQ;]|^{ ^}dÉås^cv¦{ ā}^Ác@:Á;[[]^¦Ád;æ)•][¦oÁ;]^^å•Á[¦ ^[`Áæ);åÁs@:Á``ā]{ ^}dÉÁT æ\^Át`¦^Á[`Áæàāå^Áà^Ás@:Á[||[,ā]*Á`|^•K

V • o Kar@ Átæ&d; | ÁwaÁaA |[, Á] ^ ^ å Áa) å Áa) & ki & ki ^ æ ^ Ás@ Á] ^ ^ å Á |[, | ĚÁOE]] | ^ Ás@ ÁÓ kæt ^ • Á { [[co@` q[Áå ^ c^ | { ∄ ^ Ás@ Á q[]] ∄ * Á&@eetæ&c^ ¦ãr ca3e Á; ~Ás@ Á/!æ&d; ¦ Áa) å ÁQ] | ^ { ^ } dĚÁOE Á [č Áa) & ki ^ æ ^ c@ Á] ^ ^ å Á; ~Ás@ Á / kæ&d; | Ác@ Á q[]] ∄ * Ásãr cae) & ^ Áa) & ki ~ ær ^ • ÈÉÁÓÖ ^ c' \{ ∄ ^ Ás@ Á[æçã; č dæ) •] [¦ cÁ] ^ ^ å Á; [cÁt[Á¢& ^ à ÁOEÁ;] @ÁQHEÁ] @DÁ; ¦ Átæ) •] [¦ c∄ * Ás@i Á`č ã { ^ } dÈ

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Ó^kág æl^Á[-Ác@Á[]^¦ææ]}*Ák[}åãaā]}•ĚÖ[Á[cÁ]]^¦ææ?Ác@Á/¦æ&d[¦Á]āc@Á]^æb4Á[¦Áæĕ]cÂka;æl^* [¦Á][¦}Ásā^•ĚÁY@}Á[]^¦ææ]}*Áka[]}Ásæ40@4Á;lÁ[Å]Å,^oÁ[¦ÁæanjÁ|a&\Á[æå•Ěka@Aka;læba]*Ákaāra æl &^ ā]&\^æe^•ká*•^Ár¢d^{ ^{kæah}sa}åÁ^å*&^A[`¦Á]^^åĚWY@}Á;]^!ææ]*ÁsjÁtæ-ækkæ;] æl*Á* c@Á/!æ&d[¦qA[æ=@3]*Á]æ]å*Á#?@=kab}åÁ^å*&^A[`¦Á]^^åĚWÓ^Ásçæ^AÁ[-Átæ-ækkæ;[`}åÁ[` æ)åÁ æ&&@A[`óÁt]¦Ác@Á[c@¦Á*`ĚWWkjö⊞JD



VY Op ÁÜU VOEÜŸ

U]^¦æaāį}ÂÛ^&cāį}ÅHËFJ

+') GHUIHib['h Y'HIUWIcf

V@Aj | [&^å` | ^ Át Á cæloko@ Át æ&d | Á tá Á [å^ | Å] ^ &ãæ& Ü^-^ | Át Ác@ Át æ&d | Á] ^ | æt [' e Á æ) `æt Át [Å cæl æ] *] | [&^å` | ^ - Át | Á [` | Á] æl cæl či | æl Át æ&d | EÁÔ[} •` | oÁæ) æ` c@ ! ã ^ å Åa ^æt ^ Å f [` | Á] æl cæl či * A i ! [& ^ å` | ^ Áæ æ` c@ ! ã ^ å Åa ^æt ^ Å f [č] Á æl cæl či * A i ! [& ^ å` | ^ Áæ * } & | ^ æl ÉÁÔ] •` | ^ Ác@ Á E [] ē oÆ [} d [| Á ^ ç ^ ! Æ Ái Ác@ | [, ^ ! ^ å Å [• ãti] Áæ] å Ác@ ÁÚVU Æ Æ Åa Æ ^ å Áa ^ t * • cæl ci * Ác@ Át æ&d | ÉÉÓPS-U-0033





A DANG ER

Ucælókiæ&q[¦Á]; |^ Á] @} Á] ![] ^\|^ Ár ^æc^å Á§, Ác@ Á/¦æ&q[¦Ár ^ædÉAUcælcā] * Áæ dæ&q[¦Á§; Á* ^æbÁ&æ) Á^• ĭ |o∕§; Á§; bĭ ¦^ Á[¦Áå; ^æc@ÉAÜ^æå; Ác@ Á/¦æ&q[¦Á],]^¦æq[!• {æ} ĭæ¦Á[¦Á]; [] ^\|Á(æelcā] * Á§; • dĭ & cāī; } • ÉÁ\;io∄+no



<u>+"* '6 fU Y'UbX'8]ZZ/f YbhlU'@W 'GYhlb[</u>

CĘ, zê•Áŝā*^}* zē*^Ác@Átzzsz(;¦Áŝā-^\^}cāzeļÁ[&\Á @} č';}āj*ĚÁY @}}Á*}* zē*^åÁc@Áŝā-^\^}cāzeļÁ[&\Á ā]]!^ç^}c^{(;}Åā[āch@Átzzsc(;¦Á;[{Áč';}ā]*ĚČČ`;ā]* }[:{ zeļÁ&čcā]*ÁS[}åācā]}•ÉÅ[&\ā]*Ác@Áŝā-^\^}cāzeļ]:[çãå^•Á,[Ás^}~ācAze]åA(@[č]åÅ;[cÁs^Á*•^åÈÁ 0-25

OPS-U- 0013

U]^¦æcāį}ÂÛ^&cāį}ÁHËG€

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VY OD ÁÜU VOEÜŸ

+"+FUlg]b[h YAck Yf

W•āj*Ác@Ádæ&q[¦Á+Ëj[āj cÁ@ña&@ks[}d[|Á/\ç^¦ÊÅæña^ c@Á[[, ^¦Á] ~~Ác@Á*¦[`}åÁæà[`cÂi+ÊÄ,¦Áŏ•cÁ@ñ:@ ^}[`*@kt[Á&|^æb/æb/ˆA*¦[`}åÁţà•cæ&|^•È OPS-R-0042_A



<u>+", '8 f]j]b['h, Y'HfUWrcf'UbX'=a d`Ya Ybh</u>

Ù cæło Á; --Áål áçāj * Ásæk Áser Áser Áser ás ását i zeát a zel ^ Ási & kaz e ^ Á [* I Ási ^ a ását æst ását i zet a zel ^ ási & kaz és a zel & kaz és a ze

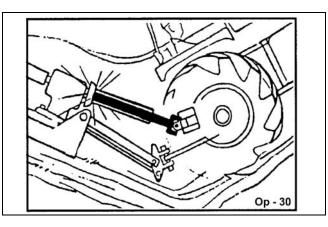
 $\begin{array}{l} \dot{U}^{+}\left[\left\{ \begin{array}{l} \dot{A}c \end{array} \right\} \bullet \dot{A} \end{array} \\ \tilde{a}c \otimes \dot{A}c

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+"- '7 fcgg]b['8]hW Yg UbX GhYYd =bW]bYg

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OPS-R-0020_A



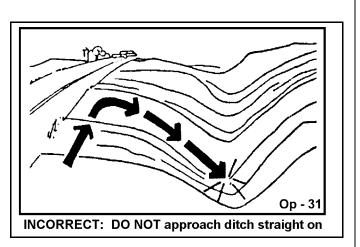
VY OQA ÄÜU VOEÜŸ

U]^¦æqāį}ÂÛ^&cāj}ÅHËGF

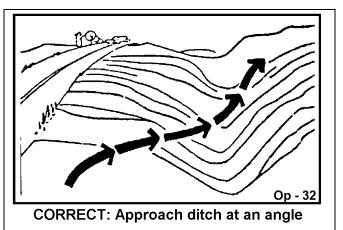
<u>+"%\$`</u>

Y@}}&&[}-¦[}c^åA,ãc@kaa)A5;&|3}^A[¦&lãa&@E&a[[A][c æ]]¦[æ&@Á+[{ Áaa)Áaa)*|^Á,@a&@Áaa Á,^¦]^}å&&`|æ\Á;¦ •dæa≣@A∱}Åæa4,æ*^Á;æ`Á;&&`¦È

Y@}Á&i[••ā]*Á*&@ácv¦¦æājÉkā@?Áξ[]|^{ ^}œ4@[*|å à^Á*||^Á[[,^¦^åÁ{[¦Áæá∦[,^¦Á&^}cv¦á(,-át¦æçãcÂæ);å æåå^åÁrææàāþãcÉkÁOPS-*R-0021_A*



Q & | ā ^ • Aæj å Astāt&@ • A @ ` | å Ast ^ Aæj] ¦[æ&@ å Aæf[} * Aæ | ā ^ Á @& @& Aœ/æj Aæj * |^ Áæ A @] } EÁA/@# A î] ^ Á ~] æ@Á ā | Á ^ å ` & ^ Áœ Á [• • ãa ā ā î ´ Á - Asa a z * EÁQÁc@ * ! æstā? } cÁ# Á [Á c^] Á cœæc * ` & @Aæj Aæj] ![æ&@ ā & |^ æ ^ • Á @ Á [• • ãa ā ā î ´ A - Ása k æsc [¦ Á [|| Ё ç^ | Ē * /| ^ & c æj Ást c' } æ ^ / & " (• ē a * Á æc @ž



VY OD ÁÜU VOEÜŸ

U]^¦æeāį}ÂÛ^&cāį}ÅHËGG

CD9F5HCB

<u>"CD9F5H=B; H<9HF57HCF5B8=AD@A9BH</u>

H<9`CD9F5HCF`AIGH`7CAD@9H9@MTIB89FGH5B8`<CK`HC`CD9F5H9`H<9`HF57HCF`5B8 =AD@9A9BH`5B8`5@@7CBHFC@G`69:CF9`5HH9ADH=B;`HC`CD9F5H9''Á/@´A[]^¦æe[¦Á[`•OÁ^æåÁæ)å `}å^\+•œa}åÁc@ÂÙæ^c`Áæ}åÁU]^¦æeā]`ÂÛ^&cā]}•Á[-Ác@Áã[]|^{{ ^}ofae}åÁdæ&c[¦Á]]^¦æe[¦q´A[æa]`æ†EÁV@•^ { æ}`憕Á[`•OÁa^áaÅdæåÁæ}åÁv¢]|æā}^åÁt[Áæ}^Á[]^¦æeā[¦Á]@[Á&æa}}[OÁ^æåEÁAÞ^ç^¦Áæ][_`Á[{ ^[}^Át[Á]]';æe^Ác@ ã[]|^{{ ^}ofae}åÅdæ&c[¦Á]ãr@[`óKe[{]|^c^Á[]^¦ææā]*Á9•d`&cā]}•È

$$\begin{split} & (\hat{A}_{1} \otimes \hat{A}_{2}) + \hat{A}_{2} \otimes \hat{A}_{1} \otimes \hat{A}_{2} \otimes \hat{A}_{1} \otimes \hat{A}_{2} \otimes \hat{$$

AWARNING

▲WARNING T[___A[}|^A], A&], A&] & aŭaĵ} • A, @:|^A[`A@aç^A&|^ad-Açã aŭaĵaĉ AB, Aba e) | â`@Aţ, | A, aŭ@Abada^``ae^Abecă aBăad | â`@a] * EĂD-^ç^|A[[___AB, Abade\]^•••Aţ | Áţ **^ A&[} åŭaĵ] • Á_ @:|^A[`Abade]^A{^}ae^A = c HEEA^^oAÇ] €Aţ DAB, A'[] oAbej å Áţ Ás@ A ãa^• Aţ -Ás@ Ástased[| Ábej å Áţ [___^ A'EĂAT ab ^Á` |^Ás@ezA[`Ábade] &|^ae|^A(^Abej å Abade]^Aae */!•à`EAc^] A'[] ^• Ebbade@ • Ebba![] Ëţ -• Ebţ ç^!@ asbade] * É] [__^!Aj ^• Ebba^a | â Abade] å Aţ | ^ā } Aţ ab & or EbGA^[` Ábe^A`] & ab |^At[Á&|^ae|^A(^Ab@ •^Ac]^A, -Æ aŭa &[] c]`^A(] ;] * Ebbo = Ebbade] A [___] a * Ebbo = Ebbade] & At[| ^ā } Aţ ab & or EbGA^[` Ábe^A`] & ab |^At[Abade]^A(^Abade]^A(

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 U]^¦æetā[}ÁÛ^&cā[}ÁHËGH

VY OD ÁÜU VOEÜŸ

<u>, '%: cfY][b`8 YVf]g`< UhUfXg</u>

GÁ [`Á@ávává [|ãá Á; à b & cá; ¦Á[¦^ā'} Åå^à lã Ét d[] Á@ { [, ^ | Áæ) å Át æ&d[¦Áæa Á; } & ^ E¥ æð Á[¦Áæ||Á; [, ^ | ![cæaā] * Á; [cā] } Á; Á d] Éx@} Á æð ^ Ác@ Á; [, ^ | Áæ) å { [ç^Ác@ Át æ&d[¦Áæ) å Áā[] |^{ { ^} ch; ~Ác@ Á; à b & cÈ Q•] ^ & cá@ Áz æ&d[¦Áæ) å Áā[] |^{ { ^} ch; ~Ác@ Á; à b & cÈ Q•] ^ & cá@ Áz æ Åz à à á A { [ç^ É]; lÁ; æ \ Ác@ Á; & & & & [~Ác@ Áa^à lã ÈQ•] ^ & các@ Á&[} å ãā] } Á; ~Ác@ Á; [, ^ | æ) å Á; æ ^ Áæ) ^ Á; ^ å^å Å [] æð Åā; { ^ å ãæ / î ÉÁT æ ^ • ` |^ Ác@ Áa |æå ^ Áæ} ^ Á; [cásæ; æ * ^ å Åæ) å Ác@ Á& & & [æ à á A; ~ = !^ Á.^ * {] * Á;] ^ !æaā] } È



FYa cj Y': cfY][b'A UhYf]U

 $\begin{array}{l} CF_{\downarrow} & \widehat{a} \circ A_{\downarrow} \circ A & \widehat{a} \circ A_{\downarrow} \circ A & \widehat{a} \circ A_{\downarrow} \circ A & \widehat{a} & \widehat{a} \circ A_{\downarrow} \circ A & \widehat{a} &$



FU]gY'Ack Yf'cj Yf'gc`]X'cV**^yW**g

<u>, "&`6 mghUbXYfg#DUggYfgVmDfYWUih]cbg</u>

QÁceásî•cæ)å^¦Á&[{ ^•Á, ãc@3,ÁH€€Á^^cÁ; -Ác@Áclæ&d[¦Á, @4^Ác@Á; [¸ ^¦ÁārÁsi^āj*Á;]^¦æz^åÉArd[]Ác@Áclæ&d[¦Áe)å { [¸ ^¦•ÁæzÁ;}&^ÈÁÖ[Á,[cÁ:cæicÁs@Á; [¸ ^¦•Áetlæ3d;Á}cājÁed|Ásî°•cæ)å^¦•Áez^Á; ^||Á;æicás@Á+€€Á[[cÁsiārcæ)&^ÈÁOPS-*R-0024_A*



VY O⊋ÁÜU VOEÜŸ

U]^¦æqāį}ÂÛ^&cāį}Á+HËGI

A WARN IN G	O[A,[ơA, ˘ơA@ea)å •A, ¦A^^ơA;}å^¦A, [ֻ^¦Aå^&\ •EXO æå^AO[}œæ8o4&ea)A^•č c ājÁ~^¦āį ˘•Áā;bč¦^Á;¦Á^ç^}Áå^æe@ěÁÛcæêÁeç æêÁ;}cāļÁea Á, [cāį}Á@eeÁ;d[]]^å æ)åÁx@?Aå^&\ •Áec^Á-Á*^&č¦^ ^Áa [&\^åA]ĚÁçuörneud	
A WARN IN G	Ö[Å][ơÁ/ơÁo@ÁÓ æå^•Áč¦}Á,@}Áo@ÁT[,^¦ÁÖ^&\Á&Aæá^åÁ(¦Áæ)^ ¦^æ•[}ÊÁ;&{`åā]*Á&{/æaa)&^Á(¦Á{¦Áč¦}ā*ÈÁÜææ*ā]*Áo@ÁT[,^¦Áå^&\ ^¢][•^•Á@ÁÔ゙œā]*ÁÓ æå^•Á,@&&@&&] æ)åÁ&{` åÁ&æ*•^Á^¦ā[`•Áā;b`¦^Á;¦Árç^}Áå^ææ@Á¦[{Á;àb^&œAœ[,}Á4'[{ c@ÁÓ æå^•ÈÁçuurmeid	
by the blades, the intermediate heig mowed again at a wear and tear or	here are grass and weeds high enough to hide debris that could be struck be area should be: inspected and large debris removed, mowed at an ght, inspected, closely with any remaining debris being removed, and desired final height. (This will also reduce power required to mow, reduce the Mower drivetrain, spread cut material better, reduce streaking, and t more uniform). Kut the mo	
ËOĘ Áæc\^æeÁ@æç^Áa; * æ•Ēæe)åÁt^}^¦;	\^^}Áv@[¦[ૻ*@[^Á5]•]^&c^åÁæ)åÁæ)åÁæ Á{[¦^ãt}Á(, æe^¦ãæ4Árĭ&@Áæ•Á[&\•Ê&&æ)●Ê æ4Áå^à¦ãrÁ@æe/Áa^}Á^{{[ç^åÈ	
	čoraãa^Ás@eÁ\¢ã;cā,*Ás@[,}ˇàb∿8oÁ.[}^LÁ	
&[}åãaấį}L ËT[^¦∙Áad-^Áĭ`}}	āj*Á& [•^Á{[Áæ]åÁ]æælae ^ Á{[Á@ŰÁ"¦[ັ}åÁjão@[čóA*¢][•^åÁÓ æå^•L	
	Ö^-∤^&q[¦●ÊÉÔ@æa∄ÁÕ˘æ¦å●ÊÉ{\¦ÁÓæ)å●Áæk<^Á5}●æa⊭ ^åÁæ)åÁ58jÁ*[[åÊÉ,[¦\æà ^	
GHCD'ACK=B;	= `D5 GG9 F G6 M 5 F 9 `K ≠ H< =B'' \$\$`: YYhi B @9 GG.	
A DANGER	Ü[cæ¦^ÁT[,^¦•Áæ¦^Á&æ]jæà ^Á;}å^¦Áæåç^¦•^Á&[}åãā[}•Á;Ác@[,ā]* [àb%∨Á[¦Á;¦^æd%säcæ)j&^•ÁÇH€€Á^^cA[¦Á[[¦^DÁæ)jåÁ&æĕ•āj*Á^¦ā[`•Á§jb`¦^ [¦Á\$s^æc@DÁX2[[,Áæ^cʿÁ[^••ez*^•Á&æ^~č ^È	
AWARNING	Tæ)^Açælaða Á, alb & or En+`& @ & er A, ā^E& & eaai ^EA'[]^EA, A& @ eaai e E& & eaai Aa^&[{ ^A []^¦ææ]i*Á, æorá, ~Á@ Á, [, ^¦Á@ æai ĚÁ/@•^Áar{ • Á&[` âÁ@}A`, ā]*Á,`or ā *¦^ææ}¦&ç^ [& ãaai • Á@ eaai Aa@ Aai æai ^• ĚÁÙ`& @ & Aaai a æaāi } Áai Ar¢d^{ ^ Â@ea æda[`` ā, Á^¦ā]`•Áāj b` ^Á, Á`ç^} & & @ & a@ & a@ & & & & & & & & & & & &	ı∧Ác@·Á@(`●∄ *Áæc ●Áæ)åÁ&[` åÁ^●` c Áå^-{ ¦^Á([, ∄ *È

<u>, " 'FDA 'UbX'; fci bX'GdYYX</u>



A DANGER

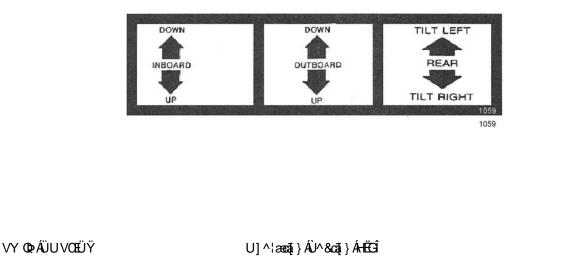
U]^¦ææ^&@AV¦æ&£q[¦&aajå⊕D|AQ0]]/{^}0%8[}d[[•4[\]^A,@A^&@AV|æ&d[}&aac] _ ão@ko@Ar^æeAa^aAa}o@A^&&`|^|^Áæe.c?}^åÁæ[`}åÁ[``ÈÄÁQ0æåç^\c?}oA([ç^{ ^}oA[A-&c@A/\æ&d[\A[Q]]^{ ^}oA(æâA&e`•^A^\ã]`•A(abc)`;A(\&aac@ÉA(oc)coo

<u>- "CdYfUh]b['h Y'7 cblfc``JU j Yg</u>

DCG+++CB'7CBHFC@J5@9

V@Áxaqç^/ārÁ[&ææ*åÁ{Áœ/Á∄@Áţ-Á@Áţ]^¦æd[¦Áæókæá&[}ç^}ār}ơÁ@ãt@Áţ}ÁæÁչ[}Ë&æàÁ`}ãdÉÁV@Áxaqç^/ārÁ[&ææ*å à^@3jåÁ@Á^æá{j3jå[,Á5jÁæá&æàÁ;æ&q[¦ĚÁV@Áxaqç^Áţ]^¦æeāį}}Áj|æe*ÁārÁ[&ææ*åáţ}Áo@Á^}å^¦Á{[¦Áj[}Ë&æàÁ`}ão æ)åÁţ}Á©Á`,ã&@a[¢Á{¦Á&æàÁ}ãorÈ

ACK9F'J5@9'CD9F5H=CB'D@5H9Á



<u>ACK9F`@=H</u>

 $V @ \acute{A} @ a | ^ {A} ^ a - \dot{A} @ \acute{A} ^ a - \dot{A} @ \acute{A} a - \dot{A} @ \dot{A} -$

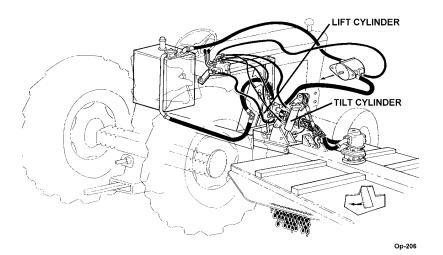
$$\begin{split} & U^* ||\mathbf{\hat{a}} * \mathbf{\hat{A}} \otimes \mathbf{\hat{A}}_{\mathbf{c}} & \mathbf{\hat{A}}$$

$$\begin{split} & \dot{U} \cdot \mathbf{G}_{3} * \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{0} \otimes \mathbf{A}_{1} \\ & \dot{A}_{0} \otimes \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{0} & \mathbf{A}_{0} \otimes \mathbf{A}_{0} & \mathbf{A}_{$$

<u>ACK9F`H=@H</u>

V@ Á@ea)å|^Á;¦c@ • cÁ{ Á@ Á&^} c^¦Á(, Ás@ Ás æ&d; ¦É£se&c`æe^ • Ás@ Á/ājcÁÔ^ |ā]å^¦È

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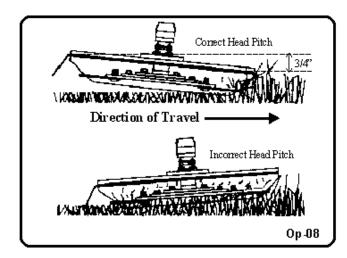


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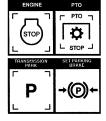
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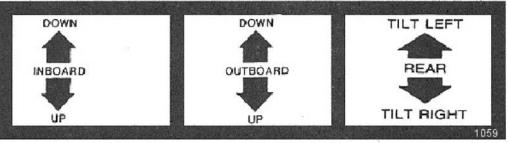
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V@Á^æłĄ([,^¦Á@ã@á¥a A&[}d[||^åÁ,ão@á@Á+HEj[ā)oÁ@áa&@á&[}d[|A^ç^¦HÁZO[||[,Á@A¥a•d`&aā[}•Á{[¦Áo@áA&[}d[|/áş c@Ás!æ&d[¦Ái]^¦æa[¦q=Á;æa]`æHHÁV@ÁsājoÁ;~Ás@Á^æłĄ([,^¦Á¥a A&[}d[||^åÅ,ão@ás@Ás@áaÅ][[|Á;~Ás@ÁãaÁşæ4ç^HÁæ)åÆ &[[¦åā]æas^åÁæ•Á@[,}Á5JÁ][ifY°\$\$)-"

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VY OÞÁÜU VOEÜŸ

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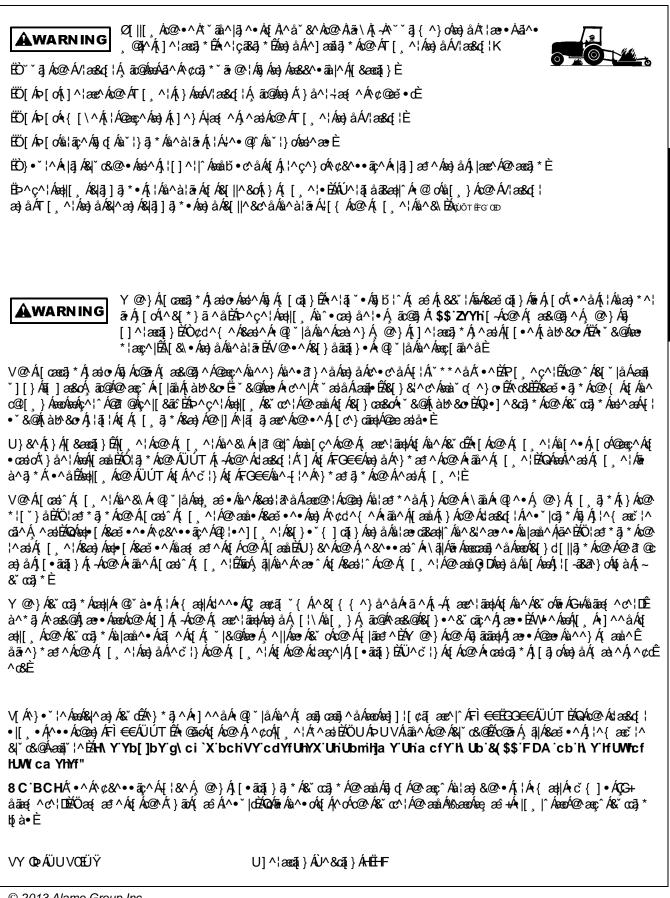
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V@Á([,^¦Á, áļ|Á,]^¦æe^Á([¦^Á~a&a) d^Ág Á(* * @¦Á&(} aãa) + Áe) åÁ āc@Á(*•A,[, ^¦ÁsÁc@Á} ã,~*Áe^ÁA^] cÁ @e) È QÁc@Á([, ^¦Ás^*ā) + Á(*Á;ãa) ae^ÉA(] Ác@Á(*a&a(*É&@&A(!Á;ãa)]^å/á) Ác@Á] a å/A, ¦Ásae(* a* ^åA} ã,~*È Y @}Á^] |æ&a] *Á} ã,~*ÉA^] |æ&A Áe(A) ã, ~*Á ãc@Á, ^, Á} ã,~*Á ácA A(*A) * '\^A, A] (] ^¦Ásae(* a* ^åA) ã, *È Y @}Á^] |æ&a] *Á} ã,~*ÉA^] |æ&A Áe(A) ã, ~*Á ãc@Á, ^, Á} ã, *A A(*A) * '\^A, A(*A) * '\^A, A(*A) * '\^A, A(*A) * Çãa] ae^ÉAU^c, '\^Á;ãa] aea] } Á, á|Á^* (CÉASÁ) ã, *A A ãcA A(*A) * Céãa Aec^ÉAU^c, '\^Á;ãa] aea] } Á, á|Á^* (CÉASÁ) ã, *A A ãcA A(*A) * A UJbhYbUbWY GYWIJcbÁ&[(*^|^Á, @}A^] |æ&a] *Á} ã, *A A(*A) *



GANa^•cæ)å^\•Áæ]]\[æ&@Á,ãc@3,Á+E€EÁ^^cý@a*Át,[,^\ÁsiA6JÁ;]^\ææāi}ÊAč`\}Át,[,^\Á;ãa&@ %ulØØ+Æi{{^åãæe^\^ÂACEe^\Á@`cå[,}ÊA,^ç^\Á^æç^Ás@`Aslæ&d;\Át\Aæ|[, Ási^•cæ)å^\•Át[Áæ]]\[æ&@ ,ãc@3,Á \$\$:"ZYYhá,-Ás@`A´}ãa´A`;daÁæd|Át,[cāi;}Á`d[]•Á&[{]|^cv|^È

Y@}Á\}&[`}c\¦ā]*Áæáç^¦^Á<^ç^¦^Á&[}åãaā[}Á;@3&@4&æĕ•^•Áo@Ád;æ&d[¦Át[Á+cæ||Ê&åā^}*æ*^Át[,^\¦É4+cæ+ó4;æ&d[¦Ê ¦ææ*^Áo@Át[[,^\¦Á+[{ Áo@Á&`dÉU@ ó4d;æ&d[¦Át,~Áæ)åÁ5j•]^&ó4o@Át[,^\¦É4a|æå^•Áæ)åÁ&ã\\Át[¦Á&æ{ æ*^Áa^-{¦^ ^}*æ*ā]*Át[,^\¦Áæ*æa3jÈ

QÁv@Ás|æå^•Áæa‡(Á;¦Ád[]Éásãa^}*æ*^Ás@Á;[,^¦Áæ}åÁæãa^Ás@Á@æåÁ|ð1@qî^Á;¦Ásæ&&As@Áslæ&d;¦Á]Èás[¦{æ|îÉás@á ,ā|Á&|^æ}Ás@Á&`co^¦Á@æåÈÁQA;[cÉ4:@o4;~Ás@Á;[,^¦G)DÉÁæãa^Ás@Á&`co^¦Á@æå•É&č;}}Á;~Ás@Áslæ&d;¦Áæ}åA*^oAs@]æ\āj*Áslæ\^ÈASE&'¦Áæ|A;[cā;}Ád[]•Á&[{]|^c^\îÉ4^æç^Ás@Áslæ&d;¦Áæ}åA&|^æAs@Ásïcāj*Á@æå•Á;æ}`æ}``æ}î`È

5 ZhYf`h\Y`ZjfghiXUmicZcdYfUhjcbžU``Vc`hg`g\ci`X`VY`W\YW_YX`UbX`hj[\hhYbYX`gYWifY`ml`V@&A`@``|åÁa^Áa[}^]^¦ā[åã&æa|^Á{[Á^}•`¦^Á@Áa[|orÁa[Á,[cÁa^&[{ ^Á[[•^Áæ]åÁ&æě•^Áaæ{æ*^Áa[Á@Ad:a&d[¦Á¦lÁ[[, ^¦Éá[lÁa]b`¦^Áa[Á@ []^¦æa[lÈ

Y @} Á[`Á^cká[Á© Á'}åA, -Ázá, æ• ÉA | at @|`Áæa ^Ás@ { [, ^¦ÁÇEİ +DÁa^-{ |^Áč |} a * ÈÁÞ ^ ç^¦Áæa ^Ás@ { [, ^¦Á'}cā^|^Á, @A^Ác@ Áa | æa ^• Áz '} a * ÈÁCÁc@ { [, ^¦Á', `• cÁa ^Áæa ^å Á@a @| Ás@a) ÁFG+Á'[{ Á';[`}å |^ç^|ÉÅ æa Á[¦Áze|A [, ^¦Á[cæa] } Á[ÁS[{ ^Á[Áze &[{] |^c^Á c[] Aa^-{ |^A] |[&^^ a] * Á[Áæa ^Ác@ { [, ^¦ÈÁÞ ÒX ÒÜÁæa ^Ás@ Á; [, ^¦•Å @A^Ás@ Áa | æa ^• æ^Áz !} a *È



OPS-R-0027_A



Ö[A][d4/ooko@AÓ|æå^•Ač¦}A]@}Aœ0AT[,^¦AÖ^&\AãrAæãr^åA[¦Aæ}^ ¦^ær[}ÊÁB&|čå3]*A&|^ææa)&^A[¦Á{¦Áč¦}3]*ÈÁÜæãr3]*Aœ0AT[,^¦Aå^&\ ^¢][•^•Á∞AÔčœ3]*ÁÓ|æå^•Á,@3&@A&\Ai¦Ač¦}3]*ÈÁÜæãr3]*Aœ0AT[,^¦Åå^&\ æ)åA&[č|åÅ&æě•^Á~¦3]č•A&B;bč¦^A;¦Á°ç^}Aå^æc@A¦[{Aî;àb^&orAc@[,}}A+{[{ c@AÓ|æå^•ÈAçuurnein



VY Qe ÁÜU VOEÜŸ

U]^¦æetā[}ÂÛ^&cā[}ÅHËHG



Šæł*^Éå^}•^Éţ; ¦Á ^ ‹Áç^* ^ ‹ææi]; Á; æ Â; ^^ àÁ[Áኔ^ { [^ âÁ]; Áç [Á; ¦Á; [¦^Á; æ• ^• Á[Áæ&@î ç^ ÁǽA; ã[¦{ & ʿĚÁQ; Á` &@í&[} åãā]; •ÉÅæã ^ Á@ Á&` cā] * Á@ â`@Á[FG-Á; ¦Á; [¦^Á; } Á@ Áã• cÁ; æ• ĚѠ́OPS-R-0043

V@}Á[, ^¦Ác@ Á[[, ^¦Át[Ác@ Áŝ^•ā^åÁ@ â @ Ás)å { [, Ác@ Áç^*^cæaā]}ÁccÁ ^&[}åÁcã[^ÈÁcAÁ][••ãå|^Ê •^|^&cÁscÁ [, ā]*Ájæac^\}ÁcœacÁā ÁsceÁscÁ)€Ás(*!^^Ás)*|^ d[Ác@ Áã•cÁ]æ•Á[Á^å`&^Ácd^æàā]*Á[¦ÁccÁ [!^ `}ã[¦{ Ásč dĚ∰OPS-R-0044





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- ✓ V@•ÁÜ[cæl-ÁÔ*cca]*ÁP^æláãeÁæ:d^aÁ@(Á&čc ç^*^cæaa[}Á]Á§(ÁG-A§)Á\$åãæe(^d°¦È
- Üàb/sorÁc/åÅq[Áà/Ác@[, }Á[čÁ\[{ Á`}å^\Ác@ @æåÁā]Ás@^Áåā^scāl;}Á[-Ás]æå^Á\[cæaā];Åæ)å d[,æååÁc@Áæai^åÁ^å*^Á[-Ás]æå^Á\[cæaā];Åæ)å d[,æååÁc@Áæai^åÁ^å*^Á[-Ác@AiA &`caa]*Á,ãc@Ac@A@æáAcādc^åÁæaAæa)Åæ)*|^Ác@æc [àb/sorÁ, [č]åÁà^Ác@[, }Ád],æåå•Ás@A`}ãc []^\æd[\Å[•ãaā];È



OPS-B- 0039_A

AWARNING

Tæ)^Açæ3a³åA{i àb%ær E* & @eser Aj ā^E5&æaài/PEX[]^E4, i/& @eaāj • E5&æaði Aà^& {{ ^A} æði * i/å A5g Ac@ []^¦ææ3j * Áj ætor Á[-Át@ Át [] ^¦Á@ æat ĚÉÁV@•^Ásēr{ •Ás[` |å Ác@}} Á j * Á[` or ãa^Áto@ ÁQ` • āj * Ásec *¦^ææ^¦Áç^|[& ãaā*•Ác@aði Ás@Asi|æå^•ÈÁÚ` & @éserk ãč ææ3i]}Ås Ár¢d^{ ^|^Á@ee æ3a[` •Ásði àf&[` |å Á^•` |c āj Ár^¦āj`•Á5j Ď ¦^Á[¦Árç^} Ása æ@ĚÁQ•] ^& cóc@ Á&` ccāj * Áse^æAt[¦Ár`&@áti àb%ær Ása^-{ ¦^Á{ [] a} * È Ü^{{ [ç^Ásað]^ Átǎ ^Áti àb%æck'[{ Ás@ Ár ãc ĚÁÞ-^ç^¦Ásel[] Ás@ Á&` ccāj * Ási|æå^• Átí Ás[} ææ8cÁ` & @áser{ •È çuð tiel D

VY OD ÁÜU VOEÜŸ

U]^¦æaāį}ÂÛ^&cāį}Á+ËH

<u>-"(`G\ilh1]b[`8 ck b`h\Y`=a d`Ya Ybh</u>

 V[Á:@ chái[] } Áxæccæ&@ å Ái[], ^¦Á@ æå ÉÁã • chái ậ * Áx@

 dæ&d; !Ái[Áxékxi {] |^c^Á; d] ÉÖ^&!^æ^^Ái } # Å

 dæ&d; !Ái[Áxékxi {] |^c^Á; d] ÉÖ^&!^æ^^Åi } # Å

 dæ&d; !Ái[Áxékxi {] |^c^Á; d] ÉÖ^&!^æ^^Åi } # Å

 dæ&d; !Ái[Áxékxi {] |^c^Á; d] ÉÖ^&!^æ^^Åi } # Å

 dæ&d; !Ái[{] |^c^Á; d] ÉÖ^&!^æ

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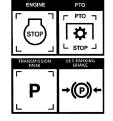
 $\dot{U}_{ab} \ \dot{A}_{ab} \ \dot{A}$

dæ)•{ã••ã[}Á§jÁ]æ¦\Á[¦Á]^*dæ¦Á[ad;]|^Ác@

]æ\āj*Ásiæ\^ÉA[, ^¦Ás@Aseccæ&@åA5[]|^{ ^} ó\${Ás@Á*![`}åÉA@ó4s[, }Ás@Á*}*āj^ÉA^{ [ç^Ás@Á^^É&ə)åÁ;æãóA[¦ æ|A[[cā]}Ás[{^Ás[{ ^Ás[{ ^ÁseAs[{]|^<^Á(]}Ás^-{ !^^Á;¢ãã]}*Ás@Ás!æskd[¦ÉAOPS-U-0016_A

Op-37

OOQUUOA^æçā] * A@ Ata&d : A^æEæ, ଛê • A^ A@@ Ajæ\ā] * Asi at Aæ) at D: A^c c@ Áta&d : Áta) • { تَعْنَوْ الْمَعْنَى الْعَلَى الْعَلَى الْعَلَى الْحَافَ الْعَلَى الْحَاف الْعَلى الْعَلى الْحَاف ^} *ā] ^ÊÁ\{ [ç^ Ás@ Á ^ Éæa) a Áj æatá[: Áæa|Á, [çā] * Áj æto Át Á d] EÁÚ |æ& Ác@ dæ&d : Á @acóA ç^: Á5j d[Áæá][` Áæa) * ^Á : Áj æto āj * Á* æbÁt Áj : A'c?} o Ás@ Átæ&d : - '[{ Á[||ā] * ĚÁD ^ ç^: / Ásiā { [` كَفَتَصُلاً الْعَلَى الْحَافِي الْحَاف الْحَاف الْحَاف الْحَاف الْحَاف الْحَاف الْحَاف الْحَاف ā: Áš@acóA construction at the above for th



<u>%\$"8=G7CBB97H=B; H<9ACK9F:FCAH<9HF57HCF</u>

W•^Á^¢d^{ ^Á&æd^Á([Á^^] Á^^óæd) åÁ@æd) å•Á{[{ ´A } å^\Á@@^Á([, ^\Áæd) å Á&|^æd/(, Áæd) ^Á), að &@A[[a]; o•È OPS-R-0030_A

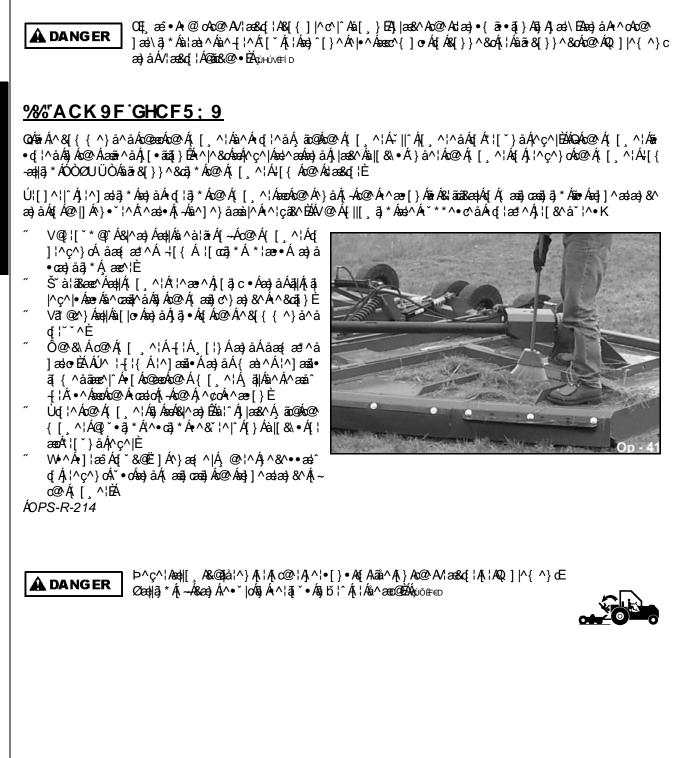
VY QDÁÜU VOLÜŸ

A DANGER

U]^¦æaāį}ÂÛ^&cāį}ÁHËHÍ

_@}Á\$uãa &[}}^&cāj*Ás@A5[]|^{^}oÁ+[[{Ás@A5taasd[¦Á+Η][[ā]oÁ@ãa&@È]

Þ^ç^¦Árcæ) å Á; ¦Áæ|[, Áæ) [c@;¦Á]^¦•[} Át[Árcæ) å Áå^ç, ^^} ÁæÁ`}}] ā] * Átlæ&d[¦Áæ) å Átc@; Á[, ^¦



CD9F5HCB

VY O⊋ÁÜUVOEÜŸ

U]^¦æaāį}ÂÛ^&cāį}ÁHËHÎ

<u>%&"HF5BGDCFH=B; H<9HF57HCF5B8 = AD@A9BH</u>

Q,@;\^}óA@ee ætå•Á;-Á;]^¦ææji*Ás@ Átæsd[;Áæ)åÆj]|^{{^}of&ey}åÁc@;Å;[••āàājāĉÁ;-Áæs&&ãa^}orÁed^A;[ofA~~Aba^@g)å , @}Á[`Áājāi@Á,[¦\āj*ÁsjÁæ)Áæ}AæbÄV@;\^-{¦^Éxs@A;]^¦æe[¦Á;`•oÁ{{]|[^Á[[åÅŏå*^{ ^}of&ej}åÅ;æe^Á;]^¦æeāj}]];æs&a&^•Á;@}Åtæ)•][¦cāj*Ás@ Átæsd[;Áæ)åÁā[]|^{{ ^}of&^c;^^}Å[&ææāj}•ĚXÓ^Á*•āj*Á*[[åÅŏå*^{ ^}of&ejå -{||[_,ā]*Á æ^Átæ)•][¦cÁj;[&^å`;^•Éxc@ Á;[••ãaājāĉÁ;-Áæs&&ãa^}orÁ;@aj^Á;[çāj*Áa^c;^^}Å[&ææāj})•Á&æjÁa •`à•æa;œaaj^áæ]^Á;ājājã^a^àÈÁOPS-U-0017

Ó^-{ ¦^Átæ)•] [¦cā) * Ác@ Átæ&q ¦Áæ) å Á([ֻ ^¦Èﷺ / Ác@ dæ&q ¦Á?} * ā) ^ Áæ) å Á, æði Á{, i ﷺ Át [¸ ^¦Á[[çā) * Á] æðo q Á&[{ ^ Át[ÁæÁ&[{] |^ c \ Á q] EÁU} & ^ Áæ] Á([¸ ^¦Á] æðo æh Á&[{] |^ c \ (q]] ^ å ÉA æði ^ Ác@ Á[[¸ ^¦Á] dæ)•] [¦cÁ@ ât @ÈÉÁOPS-*R-0033_A*

 Tæin ^ A&^ ¦ cæiði Ac@eee Ac@ Akul[, AT [çði * AX ^ @Bk|^ +AÇUT X DA ði } Afa Aði • cæi|^ å Aði

 • * & @Áæá, æi Áæe Át Áa ^ Á&| ^ æi |^ Áçã ða |^ Áæi à Á^* ða |^ ÉÁY @ } Átæi e] [¦ cði * Ác@

 • * & @Áæá, æi Áæe Át Áa ^ Á&| ^ æi |^ Áçã ða |^ Áæi à Á^* ða |^ ÉÁY @ } Átæi e] [¦ cði * Ác@

 O` * ði { ^} cf. • ^ Ác@ Á/: æ&ci | 'Álæe @ði * Á æi } ði * Áði @e Áæi à Á{ [||[, Áæi| Á[&æi

 dæ-ða Á/^* * | æði } • ÉÁviofi)

<u>%&'%HfUbgdcfhjb[`AckYf</u>

HF5BGDCFHB; IB89FH<9IB+HBGCKBDCK9F

Y@}Ástæ)•][¦cāj*Ásh^ç^^}ÁstàÁsã^•Á;¦Ásh^ç^^}Ástöcaj*Ájæe•^•Éas@Át[||[¸āj*Áj¦[&^åč¦^Á;@tě`åÁsh^Át[||[¸^åK

- $\mathsf{F} \doteq \mathsf{U} @ of_{\mathsf{k}} \sim \mathsf{A} \otimes \mathsf{A}_{\mathsf{k}} [\ ^{\mathsf{h}} \mathsf{A} \ \mathsf{A} \ \mathsf{A} \otimes \mathsf{A} \ \mathsf{C} \ \mathsf{A} \$
- GÈ Üæãa^Ás@éAs¦æoÁsa^æ(Át[ÁãorÁ@ãt@•oÁ][•ãaā]}È
- $\label{eq:height} \begin{array}{c} \mathsf{H} \dot{\mathsf{E}} & \ddot{\mathsf{H}} \dot{\mathsf{E}} & \ddot{\mathsf{H}} \dot{\mathsf{E}} & \dot{\mathsf{H}} \dot{\mathsf{H}} & \dot{\mathsf{H}} \dot{\mathsf{E}} & \dot{\mathsf{H}} \dot{\mathsf{H}} & \dot{\mathsf{H}$
- $\label{eq:linear_line$

HF5BGDCFH=B; 'I B=H'6M': @5H698'HF5=@9F

T [• cÁt'æ&d[¦• Á, ão@ÁceÁ ãå^Á{ [`} c^åÁ{ [, ^¦ Á@ æåÁeecæ&@ åÁ, āļ|Áà^Á; ç^¦ Á/* æþÁt'æ}•] [¦cāj* Á, ãå c@ÁÇF€G+Á, ãå^DĎAØ[¦ c@ã Á^æe[} ĚÁ;}^Á; -ÁœÁ4[||[, āj* Á; |[&^å` ¦^• Á; `• cÁa^Á[||[, ^åK

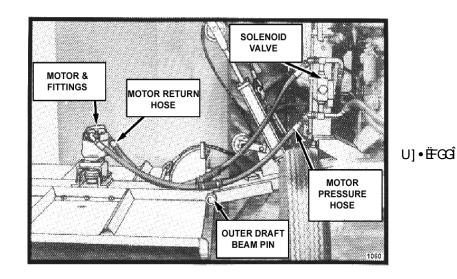
VY OÞÁÜU VOEÜŸ

U] ^ ¦æcāj } ÁÛ^&cāj } Á+ËHÏ





GÈ <u>Viag •] [| ca] * Á ão@ k ãa ^ Á; [_ ^| Á^{ { [c^åhÁUæ\ Ár@ Á:ææc[¦ Áæg] å Áč ¦ } Ár@ Á } * ā ^ Á; ~-ĚÜ^{ { [c^ Ár@ Á ^^ Át { Áæc[ãa ææs] * Ár@ Á [_ c^åhÁUæ] Ár@ Á [&æc] ãa ææs] * Ár@ Á @ å | æ æ&&ãa^} cæhÁ* cæica] * ÈÉÔ [[• ^ Ásiæ|| Áçæ‡ç^ • Á] } Ár@ Á@ å | æ | ã&Á\^ • ^ ! ç[ãiÈÁV[Áæç[ãa Á&[} cæ{ ā] ææā] * Ár@ Á@ å | æ | ã& • ^ • c^{ { Ét a ^ A` | ^ Ár∯ Á ärcā] * • Á; } Ár@ Ár ãa ^ A[[_ ^ !Át [d | Áæg] á Ár []^ } [ãa Á&[} d [| Ácæc Áæd ^ Á8] * a c@ Á[[d | Á] | ^ • • ` ! ^ Á@ • ^ ÁræÁr@ Ár []^ } [ãa Áçæ‡ç^ Áæ} å Ár@ Á[[d | ÁA^ č | } Á@ • ^ ÁræÁr@ Á[[d | ÈÙ^ ^ Á] [i fY`C dg! %&&* "</u>



$$\begin{split} & \mathsf{M} \wedge \mathsf{A}\mathsf{ed}_{\mathsf{A}} = \mathsf{A}_{\mathsf{A}} $

VY OD ÁÜU VOEÜŸ

U]^¦æaā[}ÂÛ^&cā[}ÁHËHÌ

CD9F5HCB

<u>%&"&"HiUbgdcfhib[`cb`DiV`]WFcUXkUmg</u>

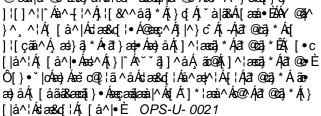
Ò¢d^{ ^ Á&æč cā[} Á @ ` |åÅs^Á • ^ å Å @ } Ás æ) [| cā] * Áv@ Áslæ&c[! Ása) å Áā[] |^{ ^ } ofs } Á, ` à | a&Á[æå, æ° EÁA/@ Áslæ&c[! { ` • Óhs^Á ` ǎ]] ^ å Á áro@ Áslæ* (` * ásl a * ásl a * Ásæč ! ^ Afg & ` åā] * Ásæð UT X Á { à | { Ása) å Áfæ @ } * Á æ} ā] * | ā @ • Át[Ása+ ! ofs i āç^! • Át] ^ å A & æ^ c Á æ} ā] * Á^ æč ! ^ Afg & ` åā] * Ásæð UT X Á { à | { Ása) å Áfæ @} * Á æ} ā] * | ā @ • Át[Ása+ ! ofs i āç^! • Át] ^ å A æ^ c Á æ& ` A & æč ! ^ A & æč ! ^ Afg & ` åā] * Ásæð UT X Á { à | { Ása) å Áfæ @} * Á æ} ā] * | ā @ • Át[Ása+ ! ofs i āç^! • Át] ^ å A & æč c Á æ} ā] * Á^ æč ! ^ A & æč ! ^ Afg & ` åā] * Ásæð Í] * [ása a Ås ^ eã] * ása | ā @ • Át[Ása+ ! ofs i āç^! • Át] ^ å Åt æ & ` a A & æč c Á & ` A & EÁU' { ^ { ` a A } & A & æč ! ^ A & ` A & ` a ` A & ` A & ` A & ` A & ` A & ` A & ` A & ` A & ` A & ` A & ` ofs & A [` ! Á āa ^ Áç ā ! [! • Át ^ ` ^ }] A [Ósa ^ A [[\]] * Á ` ó4t[! Át [` Ékœ! ^ _ I & ` A & ` A & ` A & ` ofs & A & ` A



Tæ\^A&^¦ææjAc@æøAc@A&u|[_AT[çj]*AX^@3&|^+AQUTXDA*ä}A§•œa|^åAj •`&@¢æýæá æ Áæ Át[Áa\^Á&|^æ]^Áçã ãa|^Áæ)åÁ{^*ãa|^ĚÁY @}Átæ)•][¦cj]*Ác@ Ò``j]{ ^}c^*•^Ác@ Áv¦æ&c[¦Á|æe @j]*Ájæ}åá{^*ãa}}j*Ájä @rÆejåAf[||[_∫Áæ||Á[&æ dæ-æ3AÁ^*`|ææj]}•Ě¢uo#)

V@ÁÙT XÁQÙ |[, ËT [çā] * ÁX^@88 |^ DÁ\{ à |^{ { Áā } āç^! • æļÁ^ { à [|Á • ^åÁ(Áæ]^! oĆå | āc^! • Á[~Á@^] !^•^} & A´ * ³] { ^} oÁdæç^]ā] * Á[Å [æå , æê ÁæeÁæ • |[, Á] ^^ åĚÁÙT XÁ ā } • Áæ ÁæÁtāæ) * ` |ælÁà! ā @c [!æ] * ^Á ão@Á^- /^&aç^Á^å Aʿtā Ă[!Ái[o@Á æ ^Áåæê æ) å Å ā @Áçã ãa ā ãč ÈÁT æ} ^Á * ` !^Ác@ ÁÙT XÁ ā } Áæ &|^æ) åÁçã ãa jāč ÈÁT æ} ^Á * ` !^Ác@ ÁÙT XÁ ā } Áæ &|^æ) åÁçã ãa |^Á![{ Ác@ Á^æá Á æÁ[.Ác@ Á } ãóÁà^-{ !^ dæ] •][!cā] * Ác@ Átæ&c[!Áæ] åÁ[] |^{ ^} o∱_} ÁæA] * à jā& ![æå , æÈÁÜ^]] æ& Ác@ ÁUT XÁ { à |^{ { ÆAæ^ à Ê åæ[æ* ^åÊA; IÁ[} * !Á^-/^&cã;^È OPS-U-0020

 $T \approx A^{A^{*}} A^{A} = A^{A}$





U]^¦æaāį}ÂÛ^&cāį}ÁHËH



Op-43

VY OD ÁÜU VOEÜŸ



CD9F5HCB

] Þ^ç^¦&aa|[, &&@ajå¦^}Aj¦Ajc@'¦Aj^¦•[}•At[Aäå^Aj}&a@A/¦æ&at[¦Aj¦AQ]|^{ ^}GE Øæl|ðj*Áj~Á&æajÁ^•`|o45jÁ^^¦ðj`•Ásjb`¦^Áj¦Åå^æc@EXAsjö≣e⊡



AWARNING



Ü^å`&^A]^^åAsA^{['Ač'}]}₫*Aţ[Aœ]]^ā;*Aç@Asilæt^•Ė Ò}•`¦^Áx@eeeAs[c@Asilæt^Áj^åæ]•Áæd^Á[&\^åÁt[*^œ] ;@}A[]^!æeā;*Aţ}Áj`à]&BÁ[æt+E`OPS-U-0023



U]^¦æaāį}ÂÛ^&cāį}Á+Ë €

VY OD ÁÜU VOEÜŸ

Ó^-{ ¦^Át;æ}•] [¦cāj * ÁæÁ¶ æå^åÁt;æ&d; ¦Áæ) åÁ§[] |^{ ^} Ĉ Op - 46

W•^Áæå^ĭ *æc^|^Á+ã^åÁæ}åÁkæc^åÁclæã[^¦•Áæ}å Ô[}•`|cÁse) Ásĕ c@;¦ã^åAŝ^æ†^¦Át[Áŝ^c^\{ ā}^Ás@^Á;![]^¦ ^``ā]{^}ơÁ^``ā^àĚÁM•ā]*Áæå^``æe^|^Á+ã^åÁ&@æaaj•Ê @ æ ā Áš č Á d æ + É&æ à |^ Áz à a D ¦ Ás ā a ^ ! + É A & ` !^ |^ Áz A å[,}Å\$a[c@\$c@^Á+;[}c%se)åÁ^æ+Á;~Ás@^Ás!æ&d;¦Áca‡ãāj*Ás@] ¦[] ^ ¦ Ázð Ákå[, } Á[&ææð] } • Áse Á] ^ &ãð à Áà^ Ác@ Ád æ&d[¦ { æ} ~æsč ¦^¦ÈOPS-U- 0025

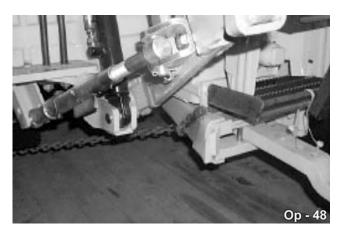
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{ ^æ* \^Ás@ Á@ â @Áse) å Á ãa c@Ásiã ^} •ãi } •Áse) å Á ¦[•• ^ ât @cÁt, -Ác@: Á&l {] |^ c^ Át aså^ å Á } ãdÉÁÓ} • ` ¦^ Ác@eeÁc@ |[æåÁ,ā|Áà^Á§iÁ&[{]|ãæ);&^Á,ão@ko@A^*æAájiãæA^oÁ[; c@ Áse^æ Ás@æÁ ālÁs^Átæç^|^å Ás@[** @ÉOPS-U-0024



OE¦æ}*^Ác@^Á&@æa}•Á*[Ác@æaA,@^}Ácā*@c^}^åÊÁc@^ &@æðð)•Áæl^Áj`||ð)*Áå[,},ælåÁæð)åÁæð*æðð)•c c@{ •^|ç^•ĔÁÔæ{^~`||^ Áæã @^} Á@^Á^&`¦āj * Á&@æaj • Á¦; [c@^\羥c^}^\•Á•ā]*Áà[[{ ^\•Á\Aàā}å^\•Át[Áæ]]|^ { æ¢ã{ `{ Ác^}•ã{ } ÈÁW•^Á^¢d^{ ^{ A&æ}^A @^} æcæ&@];*Áæ)åÁ^{ [ç];*Á∞)Á^&`¦];*Áå^ç3&^•ÁæÁ@ ^¢d^{ ^Ác^}•ã[}Á6]ç[|ç^åÁ,@^}Á^|^æ^åÁ@æÁ@][c^}cãæ‡Á⊈Á§;,4ã8cA{^¦ã[ĭ●Á§;bč¦^È

Y@a‡^Á@zeĭ |ā] * Ác@^Áci æ&c[¦Áæ) å Áā[] |^{ ^} dÊ4(æ\ ^ [&&æ•ā]}æ‡Á•q[]•Áq[Á&@^&\Ác@æeÁc@^Áclæ&q[¦Áæ}å ā[]|^{ ^} oÁ@æç;^Á;[oÁ;[ç^åÁ;¦Á:@ãec^åÁæ)åÁo@æeÁo@^ •^&`¦āj*Á&@æaāj•Á@æaç^Á(; æaājcæaāj^åÁc^}•ā(;)ÈÁQÁsi`¦āj* dæ)•][¦oÁæÁ@æelåÁalæalā]*ÉÁk@æel]Áč'|}ā]*ÉÁ(¦Á`,^¦çā]* $ascai_{A} \approx A_{A} + \{ \ ascai_{A} \in A_{A}$ ([Á§]•]^&oÁ@Á^&`¦ãĉÁ(Á@Á(æåĚÁOPS-U-0026



VY OD ÁÜU VOEÜŸ

U]^¦æeá)}ÂÛ^&cá)}ÅHËF

<u>% "HFCI6@9G<CCH=B; ; I=89</u>

NOTE: Refer to repair parts section on valve bank settings on individual relief cartridges.

< M8 F5 I@e7 `A CHCF`BCH`K CF?=B; Æ Ö @ &\Á]a^•Á[¦Á]a] \•Á[¦Á]ā] &@ åÁ] |æ &^ÈÁQÁc@ Á[[d[¦ÁārÁAa[**ā]* å[]}+Á}å^¦Á[æåÊÁ^&@ &\Áo@Á^]ā∿Á;æç^Á^caā]*Á}Ác@ Á&ĭcc^¦Á;æqc^ÁÆ Ö €€ÁLÈUÈDÈ

ACK9F

V@Á&[}d[|Áçæqç^Á&[}•ã•oA;Á∞Áa[å^É&a@^^Á+][[|Áæ••^{à|ð*•ÉA;}^Á@ä"@4;¦^••*`¦^Á^|ð*~Áçæqç^É&æ)åÁç;[Á@e)å|^ æ•^{à|ð*•ÉAU}|^Ás@A;¦^••`¦^Á^|ð*~Áçæqç^Áæ)åÁ@e)å|^Áæ••^{à|ð*•Á&e)Áa^ÁsA;ÅaÁšÁsæ{æ*^åÉAUc@;¦ã*^É&@ ;@!|^Áçæqç^Á;`•ó&a^Á^]|æ&^åÈ

GHFI7HIF5@A9A69FG

Øæajǐ ¦^ÁajÁd čš ¦æþÁ, ^{à^|•Á', }'aaļ^Á^` jo Á¦[{Á[`*@kt/æaz{ ^}džA'@aj^Áæo^Ákaz4]} ed čšca áki [Á ão@ cæ)å æà * * Æko@ ^ Ásæaj}[o Ás ^ Á; æå ^ Á; d[] * Á}[`*@kt Á; ão@ cæ)å Åææ}][{ æþkæà * * Æko@ Áæsæd; ¦^ Ås[^ * Å, d[] * Á}][* @kt Á; ão@ cæ)å æà * * Æko@ ^ Ásæaj}[o Ás ^ Á; æå ^ Á; d[] * Á}][* @kt Á; ão@ cæ)å Åææ}][{ æþkæà * * Æko@ Áæsæd; ¦^ Ås[^ * Å,] æb o Át Ásæj ^ Á¢c*} o Æ o@ ¦ Ás@æj Ásj Á; [{ æþੱ * ^ Ásj Át ¦æ * Æj ^ ^ å * Æsi } [{ æþkæà * * Æko@ Áæsæd; ¦^ Ås[^ * Å,] æb o Át Ásæj ^ Á¢c*} o Æ o@ ¦ Ás@æj Ásj Á; [¦ æþੱ * ^ Ásj Át ¦æ * Æj ^ ^ å * Æsi } * @Æk { æļ|Ási * @ * Æsi å åsæå } Åsæ * ^ Åj æs@k@ ` } ãoÆsi Ås * a å Ås át Ás @ Åsi Á; [` } c* å Æsi] |^{ { ^ } o Å ^ Æj } Ås * Æsi } * @ * å ásæj ^ ás@áj [* æ] ^ Å; for å Æsi] |^{ { ^ } o Å Åsj Át ¦æ * Æj ^ Å æ o Å { [c^ * Å ^ Å æ Åsæd;] [{ Át] } æj å Åsæj Åsæ * ^ Åj * * • c* \;æ * Å ác@áj [* æ] ^ Å; c* ! E ÆkOæ å Å{!] } o Å } å Å ^ æ @ A } æ Æsi } Åsæd; ! Át ! æ æ æ Å ^ æ @ A æsæd; ! Át !æ * • c* \;æ Å Æj Ás Æsj Åtæj *] [!o Á; [* ãaj à Á{ ! æ * c* Ás Åsj Å; !~ o Å } æ Å æ * Å æ * c* æ * Ås æ Å æ * c* æ * Ås æ * Åsæd; ! Åt ! æ * æ * Åsæd; ! Åt ! æ * æ * Å æ * c* æ * æ * ásæd; ! Åt !æ * Æsi ås Åsæd; ! Åt !] o Å * ` !~æst Åst Ås Åtæj *] [!o Æsi } Åt[] o Å; @ ^ !* Æst ` Æst Å ã æ * Å æ * c* æ * Ås ã æ * Åsæd; ! æ * * ` !~æst Åst Ås Åsæd; * Åt[] > o Å; @ ^ !* Át * !~æst Å ã æ * Å æ * & æ * Ås ã * Æst * Æsi

VY OD ÁÜU VOEÜŸ

U]^¦æaāį}ÂÛ^&cāį}ÁHËG

A 5 = BH9 B5 B7 9 G97 H=C B

Tæn∄c^}æ)&^ÁÛ^&ca[}}ÁÉË

;9B9F5@=BGHFI7H=CBG

Vāt^¦ÁT[,^¦•Áæd^Áå^•āt}^åÁ[¦Á@at@Aj^¦-{¦{ æj &^Áæj åÁ`***^åÁå`¦ææiājāĉ ÉŔ^óA, ão@Arāt,]|ãæð åÁ(æaj)c*}æj &^ÉA/@]`¦][•^Á[Áo@arÁe^&aqi}}Á[Áo@A[æj`æahÆi Át[Á@]]Áo@A[]^¦ææ[¦ÁājÁo@Á/**`|æeÅ*^¦çæ3āj*Á[Áo@Á([,^¦ÉÜ/**'|æ {æaj:c*}æj &^ÁæeAv@Ásj:c*¦çæaþÁ(^}caj}^åÁ,ājlÁ^•`|cAsj Ás@A(æetāj`{Á^~æ8að}}&^Áæj åÁ[}*Áā^Á(Ás@Á/ð*^¦ÁT[,^¦È

Y@}Á`[`Áj`¦&@ee^ÁæÁVã*^¦ÁT[,^¦Á[`Áæq+[Áæ&č`ā^Áæ)[c@¦Áçæpĕæà|^Áæe+^dÊAVã*^¦qAjækorÁ[¦*æ)ãææāj}ÈÉU`¦ ¦æjãåÁæ)åÁ^~æ&ð}có+^¦ç&&^Á@eeÁ*`æ}æ)c^^åÁc@Á&`+q[{^¦Árææā*~æ&qāj}Á[¦Á[æ)^Á^æ+ĚVã*^¦ÁjækorÁ^^]Á]Ájã@ c@Áå^{æ}å+Á[¦Á^~æ&ð}&ÊÉræ^c´Áæ)åÁ*}å`¦æ)&^Á*¢]^&co°åÁ[~Ác@Á/ã*^¦ÁT[,^\È

A∲5=BH9B5B79[°]DF9751 H=CBG

- ´`Ó^Á`¦^Á*}å,Ąi.4*;\^æ•^Áč`}Áæ);åÁ^¦\•Áæ\^Á&,\æ}Áa^;j-4^\^Á+āj*ÈÖ^à¦ã:Áşb%&c^åÅşid;Áa^æ\$j*•Ê%&&È,ã©A*¦^æ•^Á يāļÁ&æ*•^Áąį{ ^åãæe^Á&a; æ*^È
- ´´ Š^¢æ)Ą́jå[、ِ•Á@(`)å&a^Ą́æ@°åĄ́āc@kį́jååA[æ)Ą́i/åå^৫\;*^}ó&e)åĄ́i/á, æ}áĄ́i/á, æ*\£Á•j,*ÁœAí[-ó&a/æ)Á Á •][}*^Á;¦Á[-ó&a]GoŽÖUÁÞUVÁ •^Áœà;æ āç^Á;iÁæ;\æajA^&ajA;•Á;iÁ;^œadA&a;a}^\+Ą;iÁ;^œadA&a;a}^i+Á;}Áî^¢æ)Ą́jå[、•Â
- ´ Ó^Á=d^\loÁg[Á;æ=ā]c^}æ)&^Á5jåa3&æ=g[l●Á`&@Á=æé Á:@Á5jЁæa)\Áā]c^\Á]k^•●`\^Á*æ`*^Ê2@妿`|a3&Á^•^\ç[ālÁ;ā*@Á *æ`*^ÊA\d&ÈA/æ\^Áx@Á^``ā1^åÁ=&&a;}}Ág[l\^&oA=A]([à]^{{●Á5j{{ azer^|`È
- <u>Ü^|^æ•^Á; -Á; }^!*^Á![{ Á:|^••`¦ã^åÁ^•c^{ Á; æ Á&æ •^Á; æ á&æ •^Á; æåç^!c'} ó&æ č æ ā; } Á; -Á& jå å^!•Êá; !Á`åå^} Á

 <u>I^|^æ•^Á; -Á&[{]:^••^åA]:] ā *•È</u>Ó^-{ !^Å; ã & [} }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^&æ á &] }^& &] / </u>

6F95? = B D9F=C8

Q Áseááããų }Áų[ÁĮ||[, ā) *Ás@ Ásl^æ Ëa) Ásj•d`&caų }•Áų ¦Á[`¦Á]æ ca&`|æ Áslæ&d; ¦Éás@ Ásj Ĕcæ) \Á@ 妿 |a&Áųč*lÁ @[`|å à^Á'^]|æ&^å Áeæ č¦Ác@ Áai•oÆí €Á@[`¦•Áu -Á*^¦ça&^ÈÁ/@`¦^æ c*¦Ác@ Áaje č¦Á* @[`|å Áa^Á^]|æ&^å Á^ç^¦^Áí €€Á@[`¦•É4 ^^æ|îÉų @a&@ ç^¦Á&u { ^•Áai•dÈ

Ü^ËĘ[¦˘`^Á, @^|Á;*•Áæơ\¦Áã•ÓÁãç^Á@Į覕Á[-Á[]^¦æãā[}Áæ)åÁ]^¦ā[åã&æa|^Ác@\^æơ\¦ÈÈÙ^^Á[¦č`^Á+]^&ãã&æaā[}• |ãrơ\åÁð;Ác@Ádæ&q[¦qÁ•^¦çã&^Á(æ)ča#Á[¦Á^[č|Á]ædã&č|æÁ{[[å^|È¥K \YY```i[g`a ighiUk Umg`VY`fY!hcfeiYX k \YbYjYf'Uk \YY``]g`fYa cjYX`UbX`fY]bghU`YX"

> Þ^ç^¦Á, [¦\Á`}å^¦Ác@ÁQ,]|^{ ^}dÃc@Á', æ{ ^, [¦\ЁA[¦Áæ)^Áã-c∿å &[{][}^}cÁ}cÁ`}|^••Ác@ÁQ,]|^{ ^}cÁ<u>ë</u>Á^&č'!^|^Á*`]][¦c°åÁ;¦Áè|[&\^åÁ`] q[Á]¦^ç^}cÁ`čå^}Á[¦Áā)æåç^!c^}cÁæ|jā*Á, @3&@Á&[č'|åÁ&æč•^Á^¦ājč• ā)ぢ¦^Á;¦Áç^}Áå^æc@Áçiö音।□



A 5 = B H 9 B 5 B 7 9

VY QDÁÜU VOEÜŸ

A DANGER

Tæn∄ c^}æ)&^ÁÛ^&ca‡i}Á.ËG

A5=BH9B5B79

	åã^Á[¦Áæ‡c^¦Ác@ãrÁQ]]/^{^}dŹæ¥Á Žæ9)^Á[-ÁãorÁ&[{][}^}orÁ[¦Áæ9)^ÁQ]	Ö[Á}[cÁ]^¦{ãúÁæ}^[}^Áq[Á{[åã≎Á[¦Áæ‡e∧¦Ác@ãa] ^{{ ^}oÁř}&aã[}bÁÁçiö≋⊳					
▲WARNING Ú¦æ&^Ás@ÁT c@ÁÚVUÊæ	[,^¦Á?^æåÁ;}Ás@^Á*¦[`}åÁ;¦Á^&	ʿÁ, ænājoc^}æaj&^Á,¦Á^]ænāÁ,[¦\Á,}Áo@ÁQ,] ^{^}oÈ ː¦^ ^Á`]][¦oc*åÁ,}Áai [&∖•Á,¦Áraæajå•Éaåär^}*æ*^ j` Ao@Á&[}d[AŠ^ç^¦•Á,¦Ára[^•o33&\Á^ç^¦æa∳Áaā[^• or}æaj&^Á,¦Á^]ænāÁ,[¦\ĚÁAquornip					
A DANGER à^-{ ¦^Á, ' - [\ā]*Á[} à^-{ ¦^Á, [\ā]*Á} أحر [، 'اÁ; lÁ	&[}}^&cÁc@A, ā^Á/>æå•Á+ [{Ác ;!{ā;*Á~\;çã&^Á;}Ác@Á/!æ&d[!Á;!A Ác@ÁV!æ&d[!Á[!ÁT[,^!ÈÁÁY!æ&d '!æ&d[!È∰V@ÁT[,^!ÁÓ æå^•Á&[č å {^åãæe∿Áåãr{^{à^!{^}}d	ĬT[,^¦ĎÁŴ\•^Á&æčαậ}Å,@?} ¦Á^}*∄,^Á(`•oÁà^Á•q[]]^å jÁ§jæåç^¦c^}q^Åa^Áč;¦}åÅį					
F9;I@5F`A5=BH9B5B79 V@Aşc^¦çæ+ÁæA,@3&@A^*` æ\Á^¦ç3&aj*Á@(` åAs^As[}^Áæ^Asæ^åa;A}A@(` •Á,-Á]^¦æaāt}}ĚA∿•^Ás@Asæ&d¦•Á@(`							
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-++9A'	8 U]`micf ⁻ 9 jYfmi, ⁻ _{G9FJ} <i>⊒</i> 9	⁷ <cifg 7САА9ВНG</cifg 					
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∔+19 Α΄ Ö¦ąĩ,^ÂÙ@eeeAŸ[∖^ĒŹWĒҢ[ậ]c BÂĴJčàÂĴ@eec	G9FJ <i>≓</i> 9 Õ¦^æ^	7 CA A 9 BHG Õ¦^æ•^Áæ•Á§j•dੱ&c∿åÁ§j å^cæaật^åÁTæa≆jc*}æ9j&^ÁÛ∕^&caật}}					
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∔+19 A Ö¦ãç^ÂÙ@eeeAŸ[\^ÊÉWÊR[ð]c BÂÙčàÂÙ@eec Ú*{]ÁÖ¦ãç^ÂÙ@eec Ô¦æ}\∙@eeeÁOEaæ]c^¦Á	G9FJ <i>≓</i> 79 Õ¦^æ^ Ô@&\Á⊕)åÁŠčà^ Ô@&\Áčàà^¦Át¦[{{^œ	7 CA A 9 BHG Õ!^æ^Áæ Áş • d` &c^à Áş å^œaţ^å/a ÁT æş c'} æ) & ÅÁ/A Q•` !^Áŝ:lãç^Á @eeoÁ*} å Áj æ? Ü^] æ&^Át ![{ { ^ c /ās/åsæ{ æt ^ å [!Á; ã • ð] *					

VY O⊋ÁÜUVOEÜŸ

Tæn∄c^}æ)&^ÁÛ^&ca[}}Á/ËH

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	Ò ^&d[}a&Á{[^}[aåÁæĕ ⊄	æbĂY ão Q `oko@ Átæsto[¦Á` } } ā * Ékč ¦} Ás@ Á { [, ^¦Á`, ãa&@Át Át } ĚAOEÁ [, Áæč å ãa ^Á&Ja& Áæ } [oÁ@ æbå Áã Áo @ Á [^} [ãa Áã Á^ * * æt ā] * Áo@ • [^} [ãa Á] [[IÉQÁ&Ja& Áæ Á] [oÁ@ æbå ÉÅ/æç^ • , ãa&@Á ā] Á [} Á] [•ãa] } Á æb å Á , ão @Á æ • & ', å lãç^! A [} Á] [•ãa] } Á æb å Á , ão @Á æ • & ', å lãç^! A [} Á] [•ãa] } Á æb å Á , ão @Á æ • & ', å lãç^! A [} Á] [•ãa] } Á æb å Á , ão @Á æ • & ', å lãç^! A [} Á] [•ãa] } Á æb å Á , ão @Á æ • & ', å lãç^! A [Å [A @ A Å A @ A Å] Å @ A Å • & @ A Å @ A Å A @ A Å A Æ Ø A Å A Å A @ A Å] ^ & & @ & A ô @ Á ~ • ^ Á æb & A Å að * A { [/^}] & & & & & A ô @ Á ~ • ^ Á æb & A Å að Å æ d æs a Å Å ` A Å] [%&Ja& & Æ Á@ æb å ÉÅ^] æ& Á @ A [^} [ãa È		
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NOTE: If flow meter is available, check pressure and flow volume for all suspected hydraulic problems.

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VY OD ÁÜU VOEÜŸ

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HCFEI 9 GD97 = 75H-CBG

49 in-lb 49 in-lb 101 15 ft-lb 24 37 53	Lubed K = 0.15 49 in-lbs 101 15 ft-lbs 24	htening Tor Dry Plated K = 0.17 59 in-Ibs 122 18 ft-Ibs	Grade 2 que Dry plain K = 0.20 66 in-lbs	Tig Lubed K = 0.15	htening To Dry Plated K = 0.17	Grade 5 rque Dry plain		htening Tor Dry Plated	Dry plain	Lubed	htening Tor Dry Plated	
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49 in-lb 49 in-lb 101 15 ft-lb 24 37 53	Lubed K = 0.15 49 in-lbs 101 15 ft-lbs 24	Dry Plated K = 0.17 59 in-lbs 122	Dry plain K = 0.20 66 in-lbs	Lubed K = 0.15	Dry Plated K = 0.17	Dry plain	Lubed	Dry Plated	Dry plain	Lubed		
49 in-lb 101 15 ft-lb 24 37 53	K = 0.15 49 in-lbs 101 15 ft-lbs 24	K = 0.17 59 in-lbs 122	K = 0.20	K=0.15	K=0.17							Dry plai
101 15 ft-lb: 24 37 53	101 15 ft-lbs 24	122		Uni			K = 0.15	K=0.17	K=0.20	K=0.15	K=0.17	K=0.20
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15 ft-lb: 24 37 53	15 ft-lbs 24			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-lb
24 37 53	24	18 ft-lbs	135	157	178	209	221	251	295	259	294	346
37 53				23 ft-lbs		31 ft-lbs	33 ft-lbs		44 ft-lbs	38 ft-lbs	43 ft-lbs	
53	27	29	32	37	42	49	52	59	70	61	70	82
		44	49	57	64	75	80	90	106	94	106	125
		63	70	82	92	109	115	130	154	135	153	180
	73	87	97	113	128	150	159	180	212	186	211	248
129		155	172	200	227	267	282	320	376	331	375	441
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17 ft-lb 27	27	20 ft-lbs 32	23 ft-lbs 36	26 ft-lbs 41	197 30 ft-lbs 47	231 35 ft-lbs 55	245 37 ft-lbs 58	278 42 ft-lbs 66	327 49 ft-lbs 78	287 43 ft-lbs 68	325 49 ft-lbs 78	383 58 ft-lb 91
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17 ft-lb 27 41 59 82 144 138	27 41 59 82 144 138	20 ft-lbs 32 49 71 99 173 165	23 ft-lbs 36 55 78 110 192 184	26 ft-lbs 41 64 91 127 223 355	197 30 ft-lbs 47 72 103 144 253 403	231 35 ft-lbs 55 85 121 170 297 474	245 37 ft-lbs 58 90 128 180 315 502	278 42 ft-lbs 66 102 146 204 357 568	327 49 ft-lbs 78 120 171 240 420 669	287 43 ft-lbs 68 105 151 211 369 588	325 49 ft-lbs 78 120 171 239 418 666	383 58 ft-lb 91 141 201 281 492 784
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 Tightening Torque
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 Lubed
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 Dry plain</td Nominal Pitch Dia 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 (mm) (ft-lbs) 0.5 0.28 0.32 0.38 0.73 0.82 0.97 1.0 1.2 1.4 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 0.7 0.66 0.74 0.87 2.3 2.4 2.7 3.2 3.8 0.8 1.3 1.5 1.8 3.4 3.9 4.5 4.9 5.5 6.5 5.7 7.6 2.3 2.6 3.0 5.8 6.6 7.7 8.3 9.4 9.7 1.25 2.1 2.3 2.7 5.0 7.0 7.6 5.3 6.0 8.6 8.8 3.8 4.3 9.7 5.9 7.8 6.6 7.3 1.25 5.5 6.2 1.25 1.5 1.25 1.5 1.75 1.25 1.5 1.5 1.5 2.5 1.5 2.5 91 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 Tæn∯o?}æ)&^ÁÙ^&aqã[}ÁİË

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VY OD ÁÜU VOEÜŸ

89G7F=DH=CB	5 DD@75H-CB	;9B9F5@GD97 	F97CAA9B898 AC6=@@t6F=75BH
V¦æ&d[¦ÁR^妿ĭ∣&&∙	Ü^∙^¦ç[ã	RÖËG€Ô TØÁTFFHÍÉÄTFFIF ØÞPTGÔFHIÖÁÇØÞPG€FD	T[àậ⊣ĭãáíÁíGi
T[,^¦ÁP^妿ĕ && Ô[åÁ/^{]^¦æeč¦^ Þ[¦{æ‡Á/^{]^¦æeč		ŴUÁIÎÁOE;o2ËY^a≱ËŠ[,Á^{] RÖËG€Ô TØÁTFFHÍÊATFFIF ØÞPÁTGÔFHIÖÁØ2ÞPG€FD	T[àãµ/ÖVÒ/∓ÍT T[àã]⊣ĭãâ/ÁGI
Þ[¦{æ Á/^{]^¦æeč Pāt@ÁU]^¦æeāj*Á/^	¦^•Á≂Í »ØÁÙæ÷dË/\] {]ÈÃOEa[ç^ÁJ€»Ø	ù∪ÁÎÁŒ,œËY^æ ù∪Æ€€ÁŒ,œËY^æ	T[àậÁÖVÒÁGÍ T[àậÁÖVÒÁFÌT
Ö¦ãç^ÁÙ@eee4Ô[`] ^¦	Õ¦^æ^ÁÕ`}	Šãc@ã{ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕQÁCÁÉÃÒÙUÁHG€	T[àậ*¦^æ•^ÁÔTËÙ
Ö¦ãç^ÁÙ@æeéŸ[∖^Ê WˇjājóÆAÛčàÁÙ@æec	Õ¦^æ^ÁÕ`}	Šão@ã{ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^•••`¦^ ÞŠÕŒ(AÄÄÖQ)UÁHG€	T[àậ*¦^æe^ÁÔTËÙ
Ö^&\ÂĴ]ðjå ^ÂÇÜ[œes^D	Õ¦^æ^Æ`}	Vãt^¦ÁÚæióÂĴ]ājå ^ÁŠčà¦ã&æ)c ÚæióApč{à^¦Á€ÎÍI €€€€	T[à‡ñã@ÂÙPÔÁGG€
			T[[^] ÁG

А 5-В Н9 В5 В 7 9

VY OD ÁÜU VOEÜŸ

Tæn∄c^}æ)8^ÁÛ^&ca[}}Á,ËJ

DC @M75F6CB5H9'75F9'/ 'A5=BH9B5B79

V@^Áj ¦[] ¦āʰœaʰ ÁłWX Áæj å ÁŒa ¦æ•āţ } ÁÜ^+ãi œaj ó́•́*` ¦-æ&^ Á&[ææj * Á[} ÁÙP OÒŠÖÙÁÙWÚÒÜÔU O5/ÒÖÁ] [| ^ &æaà [} æơ •āť }ãā&æj qˆ Áāţ] ¦[ç^•Á] ^ ¦-{ ¦{ æj &^ ÈŹU^} ¦āţ åã&Á&|^æj āj * Á` •āj * Áj ¦[] ^ ¦Áj ¦[&^a` ¦^•Áæj åÁ&[{] ææâi|^Á&|^æj ^ ¦•Áæ^ ¦^&[{ { ^} å^àÁx[Á, ¦[|[} *Á ^ ¦çã&^Áã^ÈÁ/ã ^ ¦ÁÔ[¦] ÈÁ, [| ^ &æaà [} æơ Áã ÁUWÚÒÜÔU O5/ÒÖÁ; } Áb[co≦Á ãa^•È

7 @95 B=B; H<9 GI D9F7C5H<5F8!7C5H

FÈ Yæn @Á,ão@Ásaá,ā¦a`Á{[|čaā]}Á{,Á^{[æ]}Á{,¦Ås^c^\;*^}oÁse)åÁ`\^,æd{ Á,æc^\;`

- CÈ W+ā; * Áæá [-∞á& [[c@á, lÁ]][} * ^ÊX ^} d^Á; æ @ác@ Á @ ^ cát[Á][[•^} Á&ācáæ) å Á* lã; ^ Áæ) å Áā; •^Á, ^ ||Á; ãc@á& / æ) Á ; æc^lÈ
- HÈ V[Á,¦^ç^}ơ´, æe^\'Á][ccā,*Éás@;¦[`*@;Áå;¦^´, ãc@á&@æ;[ã;Á,¦Á&^||`|[•^Á][}*^È
- À * `] À \ إُجْهَعَ اللَّحَةُ (هَ الْجُمْعَ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ ال مُعْلَمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ ال مُعْلَمُ اللَّهُ اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ ا

7 @95 B=B; `5; 9 BHG`K < =7 < `<5 J9`699 B`: CIB8`HC`69`7 CAD5 H=6 @9`IB89 F`@56 CF5 HCFM 7 CB8 =H=CBG.

″ OE `^[`•ÂIJ[|`qā[}•Á[AÛ[aa]•Áæ)åÄÖ^♂\'*^}o•

	Yājå^¢	V[]ÁR[à	R[^	T¦ÈŽÔ ^æ)
	Øæ)cæecã	Ø[¦{ ĭ æÁi€J	Ù`{æ¢åî@o∕#ÖFG	Ó¦ĭ&[å^&ãã
"	U¦*æ)æÂÛ[ç^}o Óčć¦ÂÔ^ [•[ç^ Þ^ ^&[ËÚ æ&^¦	S^¦[•^} ^ V″ ¦&[Ấ€I G	P^¢^ Ê£ØÈÙÈĂÍÍI	Þæ]@œeÁÇXTBÚÁÕ¦æå∧D

″ O\$\$&{@{}|• T^o@æ∳[| @{[]¦[]^|

CE|Á^•ãã ǎaþÁ;¦*æ) 3&Á[lç^} o•Á@{`|åÁà^Á^{ [ç^åÅ ão@ÁæÁ^&[}åæ}^Áð] •^È

; F5::===F9ACJ5@

Ó č |Á&^||[•[|ç^ÁĢ[¦Á^{ [çæ‡Á[¦Á;æā]orÊ4(æd\ā]*Á]^}Á9]\•Ê4j]•æ38\Ê4\&BAZ [¦Áā]\Á^{ [çæ‡Át[[•Á,[¦\Á,^||Át[¦Áācā]*Á;~Á[å:4]*Á]~æ@?|^åÅ;æa]orÈ

V[Á'^{ [ç^Á;aaà^|•Êf+ca3&\^¦•Êf^co&ÉÉ+co@Á`•^Á[-Á\^¦[•^}^Á[-ÁXTBÚÁ;aa]@co@axáaa^Á*^}^\a#|^Á~~^&coaţ^ÈAY@}}Áco@ •[|ç^}c4,āl;Á[c4],^}^c1;æe*Áca3&\^¦Á(;æe*¦ãaa;É5aa;]|^Á@iaexÁç@easiás¦^^¦Dág[Á=[-æ*}Ác@Áaaå@•ãç^Áaa;åA;¦[{[c4A^{[c2]}

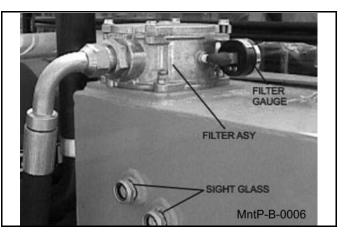
VY OÞÁÜU VOEÜŸ

Tæn∄ (?)æ)&^ÁÙ^&ca[}}ÁËF€

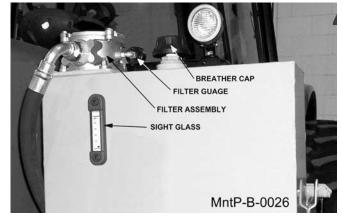
F97CAA9B898':=@@#B;'=BGHFI7H=CBG':CF'<M8F5I@#7' F9G9FJC=FG

Y @}Á4]|3] * Á; ¦Á&@ & 3] * Á; @Á; 1]Á^, c^|É&@ Á`} ãnÁ @` |å à^Á] æ\^åÁ[} ÁæÁ|^c^|Á•`¦-æ&^ÈÉ*•@ c´Í C::ÎÊ&æ}å æ|[], Á`~-a8æ}} oÁaā[^Á[[Á&[[|Á[[Áæ] à a]} oÁc^{{]}.]*æč'|^È W•^Á &æč qā]}Á, @}A`!^{{[çā] * Á c@ Á]}^*••`¦ã^å à!^æc@'ŀÉÅÖ[Á, [oÁ]] æ&^Á-æ&^Á[, c^!Á[]^}3] * Á, @} !^{{[cā] * Ás]^æc@'!ÉÅ

QÁ`[`¦Á\•^¦ç[āÁœeÁ[}^Árā@Á'|æ•Ð∆{]^¦æč¦^ *æ'\ÁÁ\@Á\•^¦ç[āÁ@e`|åÁà^Áā|\^åÁ[A@A`&A [Á@Áā@Á'|æ•Á]}Á@A`āâ^Á[Á@A`àà\`ÈÁÖ[Á][c [ç^¦Ëā]IĚÁQÁ@Á:æ}\ÁœeÁ[[Á[`&@Á]āÊÁ@Á*¢&\•• { æُÁà^Á*¢]^||^åÁ@[`*@Á@Á;¦^••`¦ã^åÁs¦^æ@¦È



A 5 - **B H9** B5 B7 9



F9D@57=B; '=B!H5B?'<M8F5I@47':=@H9F

Š[[•^}Åc@·Á{[`¦Áè[|o·Á[}Åc@·Á{]Å&[ç^¦Á[-Ác@·Áậdơ¦ @[`•ā]*ÈÁ/´¦}Á&[ç^¦Á&[`}ơ\Ë&|[&\,ã*^Á}dāA&[ç^¦Áæ ⊣^^ÈÜ'\{[ç^Áea)åÁ\^]|æ&^Áą∂ơ\ÈÉÜ^]|æ&^Á{[]Á&[ç^¦ æ)åÁ&[ç^¦Áà[|o·Áa)Á,]][•ãơ\Á;¦å^¦ÁœA{{[ç^àÈ

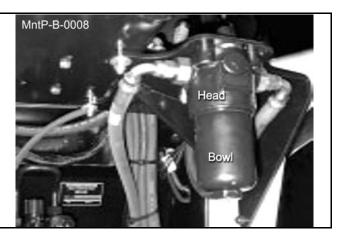


VY OD ÁÜU VOLÜŸ

Tæn∄ c^}æ) &^ÂÛ^&ca[i} }Á/ËFF

F9D@57=B; '<=; < 'DF9GGIF9'<M8F5I@=7':=@+19F'9@9A9BH

Qē•`¦^Á •^•c^{ Á @æ•Á à^^}Å • @ cÅ å[, }Å æ)å å^];^••`;ã^åĚĂ Š[&ææ^Á P∄ @Á Ú;^••`;^Á Øậc'; @`•ā,*ĚÔ[}-ā{ Ác@æcÁ@ Á^|^{ ^} cÅ@æcÆ à^Áā,•cæh^åÁ(ææ&@•Ác@ Á^|^{ ^} cÅ] Ð Á[¿A@ Áāc'; { [å^|Áæ*ÉÀOcæ;] |^KÁXHÈÉ FEËÊ ÁÇ [;|åÅ|ā,^ÁF€EÊ PÖ€ JÁ{ [å^|DÅŠ[&ææ^Ác@ Áà] cf { Á[-Ác@ Á₽∄ @ Ú;^••`;^ÁÔ[, [Éæa)åÅ`•^Ác@ Áà] cf { Á[-Ác@ ÁP∄ @ Ú;^••`;^ÁÔ[, [Éæa)åÅ`;}ā,*áşÁææ{`}c@ Áa] a}}`; , 'A} &@Ê; !Ëææ&@ cæa)åÅ`;}ā,*áşÁææ{`} c% ka[[&], ā^ ;'A &@Ê; !Ëææ&@ cæa)åÅ`;}ä,*áşÁææ{`} c% ka[, a^ '[cææā; }ÊÅQ[[\ā,*ÁæeA@ Aa[cq { Á[-Ác@ ÁP∄ @ Ú;^••`;^AÔ[, [Éæa)åÅ`;}ā,*áşÁææ{`},*a@ Aa[, a],*a^ '[cææā; }ÊÅQ[[\ā,*ÁæeA@ Aa[cq { Á; -Ác@ Aa[, a], a^ '[cææā; }ÊÅQ[[\ā,*ÁæeA@ Aa[cq { Á; -Ác@ Aa[, a], a^ ']cæā; }ÊÅQ[[\ā,*A@ A@ a±ÊÊV@ Áã•cÁ&[`]]^Á[[cææā; } ; a]A^^{{ (A}^{{ (A} @ Aa@ a±ÊEV@ Áã•cÁ&[`]]^Á]; cÁ@ Aa@ Ê [] &^Ac@ A[Ëā; A@æ Á&]^a; Aa@ Aa@ Aa]; Aaæ Ê [] &^Ac@ A[Ëā; A@æ Á&]^a; Aa@ Aa@ Aa]; Aaæ Âc@ a[, [Aa@;]aA;]ā, A;^^]Ê¥æa; A&æA^A[cAd;]Aa@ Âc@ a[, [Éæa; ã @Á^{{ (cā; *á@ Aa],]A}[(Á[Åa;[] Ác@ a], [Éæa; ã @Á^{{ (cā; *á@ Aa],]A}[(Ac@ A@ a±Ê



 $\begin{array}{l} \textbf{WARNING: Bowl will be full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of oill here in the full of full here in the full here in the full here in the full here in the full here in the full here in the full here in the full here in$

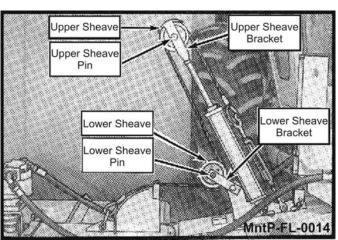
VY Op ÁÜU VOEÜŸ

Tæn∄ c^}æ) &^ÂÙ^&ca‡} ÅËFG

A 5 = BH9 B 5 B 7 9

; F95G=B; 'H<9'I DD9F'5B8'@CK9F'G<95J9G

Š[&ææ^Ác@ Át¦^æ^Á ^¦\•Á[}Ás@ Á^}å•Á[_Ás@^Áĭ]]^¦ æ)åÁ|[,^¦Á•@æç^Á]ā)•Áæ Á @,}}Áà^|[,ÈÁQ,b^&c Šãc@ã { ËD[{]|^¢Á O¢d^{ ^Á Ú¦^••`¦^Át¦^æ^ &[}-{!{ā}*Áq!ÁÞŠÕOOEDUUÁHG€Á•]^&ãã8ææā;}•Áā)q[^æ&@Á]ājÁĭ}cājÁãaÁ]![d`å^•Á+]{{ Ác@ Á^}å•ÈÁV@•^ •@,`|åÁ懕[Ás^Át¦^æ^å/åsæājî Át¦Át¦!Árç^¦^ÂtÁ@,`¦•Át~ •^¦çã&∧È

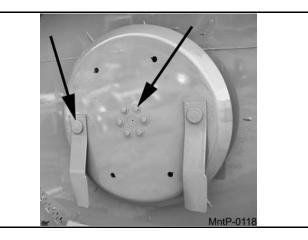


H=; < H9 B=B; `6 @5 8 9 `6 C @HG `5 B8 `8 =G? `6 C @HG

Œe^\¦Á^ç^\¦^ÂÌÁ@Į`¦•ÁĮ ~Á[]^\¦æeāj}}Á[¦ÁåæaājîÊźc@∘Á}ã^ à[|orÁæ);åÁ&ã`\Áa[|orÁ:@[`]åÁà^Áæî@e^}^åÁæeA[||[, •K

S}ã^ÁT[`}cāj*ÁÓ[|orÁÇHÁ^æaÈDÁt[¦``^Át[Â`€€Á[ā/^åÁdÈ |à•È

Öãr∖ÁT[`}cāj*ÁÓ[|orÁQÎÁræÈDÁg¦``^Áş[ÁG€IÁå¦^Áç¦ÁrÌ| [ā/∿åÁdÈÐà•È



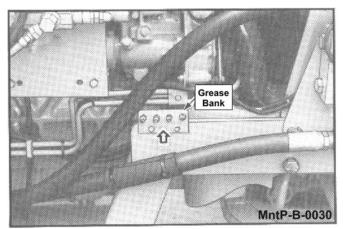
VY OD ÁÜU VOEÜŸ

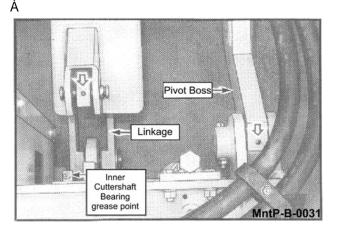
Tænijo?}ænj&^ÁÛ^&ca[i}ÁİËFH

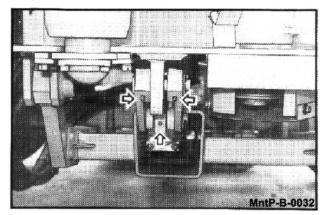
A 5 - B H9 B5 B 7 9

; F95G=B; '=BB9F'5B8'CI H9F'8F5: H'695A'D=JCH'DC=BHG

Š[&ææ^Á@^Á¦^æ^Á^!\•Ą́}&@^Áj}^!ÁæjåĄ́`ơ'¦Áá¦æɛ à^æ{Á]ā;[cÁà[••^•ÈÁQbb&cÁŠāc@ã{ËÔ[{]|^¢ Ò¢d^{^Á¦^••`¦^Á¦^æ^Á&]}-{i{ 3* ÁţÁ*SÕCOEÊDU HO€Á•]^&ãã&æa‡i}•Á∄dţÁ^æ&@Á:^¦\Á`}d‡Á*!^æ^]![d`å^•Á¦[{Ábjā]o•ÈÁÁÕ!^æ^Áæl|Á]ā;[o•Á忇i`Á[¦ ^ç^!^ÂÁQ°`!•Á;Á^A^|çã&^È

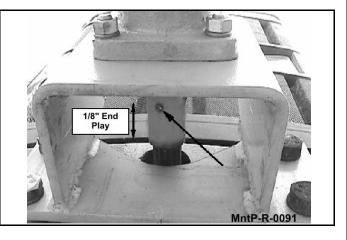






; F95G=B; DIAD'8F=J9'G<5:H7CID@9F

Y ãu@Ár}* āj ^ Ár ([]] ^ åÉr} • ` !^ Áå !ãç^ Ár @eeoÁæ‡ā } { ^} c à^ Á* !æ] āj * Á&[`] |^ ! Áæj åÁ• [ãā āj * Áàæ&\ Áæj å Á-[!c@È Ô[`] |^ ! Ár @[` |å Ár |ãā ^ Á!^^| Á ãu@Áæj] ! [cā[ææ^| ^ ÁFÐ + [~ÁY} å Áj |æÊĖGÁ&[`] |^ ! Åå[^• Áj [cá |ãā ^ Á!^^| É&j •] ^&c - { ! Á[[• ^ Áj ` {] Á [[` } cÁa[] o Éź[!Áåæ{ æ* ^ å Á[! Á[[• ^ &!æ) \ Á • @eeoÁ æåæ] c^ ! ĚÁ Q b/> &cEŠãu@ã { Á Ô[{] |^ c Ò¢d { ^ Áú! ^ • • ` !^ Á !^ æ ^ Á&[} - { ! { aj * Át Ár ŠÕ QEED)U HO€Ár] ^ &ãã&ææt } • Áðj (t Á&[`] |^ ! { aj * Át Ár ŠÕ QEED)U HO€Ár] ^ &ãã&ææt } • Áðj (t Áx[`] |^ ! { áj * Át Ár ŠÕ QEED)U Q ` ! • ĚÖ[Á, [cá ç^ ! Át !^ æ ^ É

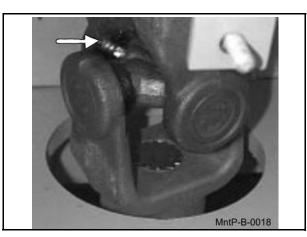


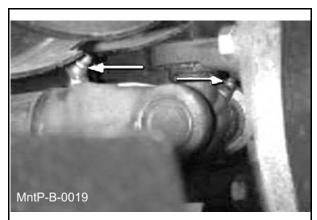
VY OD ÁÜU VOEÜŸ

Tæājc^}æ)&^ÁÛ^&cāj}ÅÉFI

8F=J9'G<5:H'MC?9žI !>C=BH'/ 'GHI 6'G<5:H

Yão@Á^}*āj^Á•d[]]^åÉÁājb%&ÁŠão@ã{ËÔ[{]|^¢Á^¢d^{^A]¦^••`¦^Á*¦^æ^Á&{]}_{}*@*Á&{]}~{#}{{ā}*Ád[ÁÞŠÕODEDDUÁHO€ •]^&ãã&ceaāj}•Ásjd[Á]ãç^¦•æhÁsjājorÁesjåÁ|j3jÁ[\^Á}cājÁ*¦^æ^Áæ]]^æt•ÁseaÁc@Á^æhŽÕ¦^æ^Ác@{Ásæaãj^Á;¦Áç^¦^Â @@`¦•È

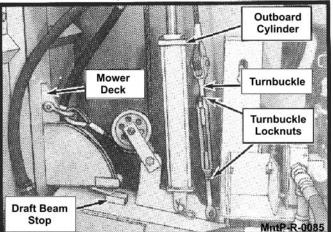




58>IGH=B; 'H<9'756@9'@=;H

NOTE: Make sure the cable turnbuckle is loose enough to allow the cylinder to reach full extension before the head reaches the stop.

Þ[, Á@; |åÁc@ Á@ æåÁæt æð] • Ók@ Ár (t] Áæ) åÁæt @c^} Ár@ č ¦} à č & |^ Ár } dð Ác@ Á&æå |^ Áña Ác# @ÉÉŠ[, ^ | Áæ) å Álæða ^ c@ Á@ æå Át[Á&@ & Ác@ Áæå b • ct ^ } dÉ / @ Á@ æå Ár @ č |å q č & @ fær Ár (t] Áæn Ác@ Áræt ^ Áræt ^ Áræt ^ Áræ Áræt @ č |å q č & @ fær Ár (t] Áæn Ác@ Áræt ^ Áræt ^ Áræt ^ Åræ År æ& @ • ~ || Ár¢c^} • 51; È / 21 @c^} Ár ;} à č & |^ Át[& Á, č or Ár ^ & č |^ | æc* ¦ Áræå b • ct ^ } of fær Ást { }] / c^È

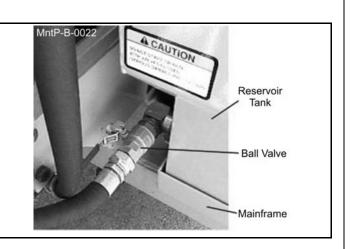


VY OD ÁÜU VOLÜŸ

Tæn∄ c^}æ) &^ÂÙ^&cã[}}Á Ë⊏Í

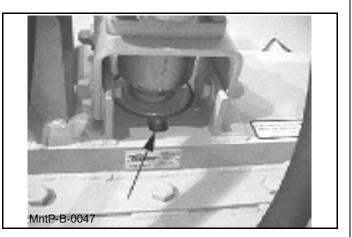
65 @@J5 @9G

V@ ÁaæļlÁçæ¢ç^• ÁææÁœ Á@ ålæĕ |æÃÁ^• ^\ç[ālÁ(æâ Á,^^å d[Áa^Á&][•^åAå` ¦ā) * Á&^ ¦ææð Á(æð) c^}æ) &^Á[¦Á^]æði] ¦[&^å` ¦^• EĂH<9`65 @@J5 @J9G`A I GH`69`CD9B fl UbX`Y`dUFU`Y` k]h` j U j YŁK <9B`HF57 HCF`=G F9!GH5 FH98` CF` DI A D`=G`7 CI D@98` HC A CHCF`CF`D'HC'"ÁZæãjĭ ¦^Ád[Áa[Á [Á]áļÁ'.•ĭ |∞áðj &[{][}^} oÁæãjĭ ¦^Â



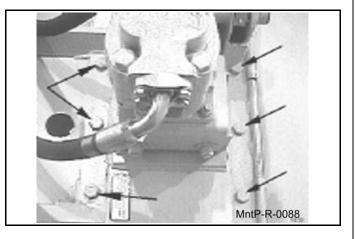
; F95G=B; GD=B8 @

Š[&ææ^Á*¦^æe^Á-āccāj*Á;}}Áāj•ãa^Á[-Ás^&\ÁQ* •āj*È Qub*&oÁ Vãt^¦Á Ù]ājå|^Á Š`à¦ā&æojdÉA]æboÁ }`{à^¦ €ÎÍI€€€€Á3jd[Á]ājå|^ÁQ* •āj*ÈÁOãa|Ájão@Á|`à¦ã&æo)c `}dājÁ|`à¦ã&æo)dÁ_^^]•Á[čd{[-Át[]Å•]ājå|^Á•^ædÈ Š`à¦ã&ææ^Áa]ājå|^Á,^^\|^Á;¦Árç^\;^Át€ÁQ*`¦•Át-Á*•^È



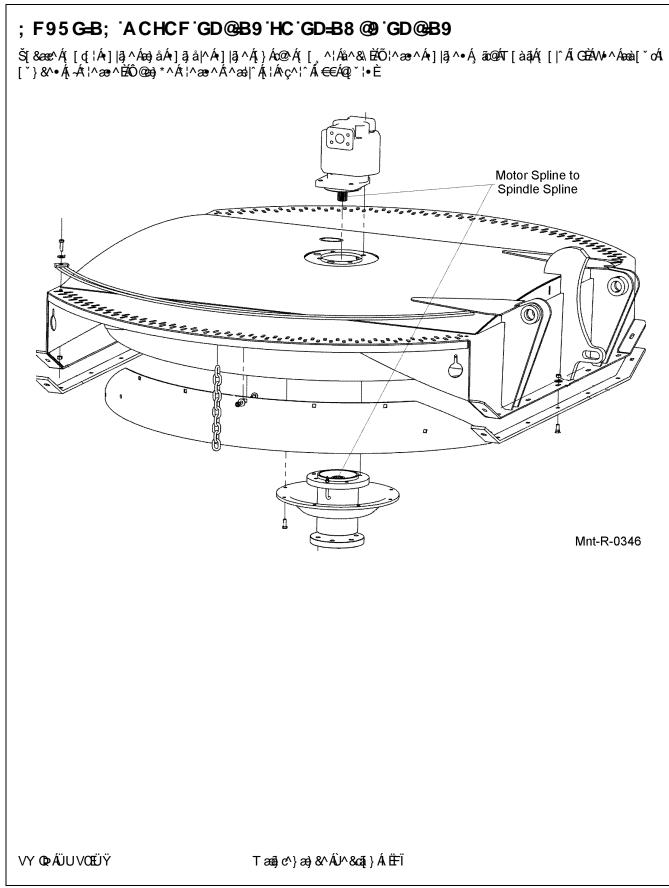
H=; < H9 B=B; 'GD=B8 @9 '6 C @HG

V@:Á*]ājå|^Á;[č}cāj*Áà[|o:Á:@[č|åÁà^Á&@ & \^åÁa)å ¦^q[¦č*^åÁåæaaĵÁ;¦Á;ç^!^Á;€Á@[č]•Á;Á^\;ça&^ÈV[¦č*^ c@:ÁŷDÁà[|o:Á:@[;}Áà^|[;Át]FÁdĚÅà+È



VY OD ÁÜU VOEÜŸ

Tænjo?}æ)&^ÁÛ^&anj}ÅÉËÎ



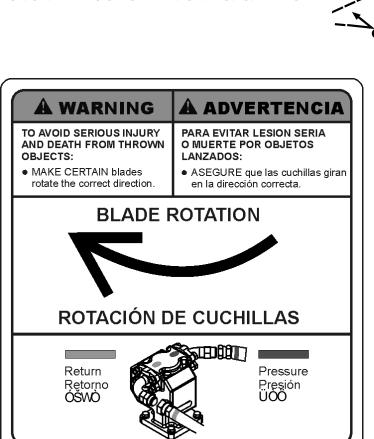
6`UXYg

Ô@&\Ác@ÁÓ|æå^•Á[¦Á&¦æ&\•Áæ)åÁ, ^æ}Áæ)åÁÓ|æå^ÁÓ[|orÁ[¦Áæ]@}^••EåæajîĚÓ|æå^•Á@[`|åÁà^Á^]|æ&^åÁ, @} c@^Áæ}^Á,[¦}Á^¢&^••ãç^|^Êbà^}dÊå^-{|{ { ^åÊá,¦Á; c4, -Æiæ;æ;æ; & ```





Tæ\^Á•`¦^Ác@Á([,^¦Áa|æ&^•Áæk^Áč'}]ð]*Á&|[&\, ã*^Á, @}Å[[\ð]* å[,}Á+[{ Ác@Ád[]Á(-Ác@Á([,^'ÈA2[||[, Ác@Á&[|[¦Á&[åð]*Á[}Á@ @妿`|ã&Á@[•^•Áæ]åÁāccā]*•Ád[Å(æ\^Á*`!^Ác@Á([d]¦Áæ]åÁ@åæ`|ã& @[•^•Áæ^Áæ•^{{`a|^åA;|[]^!|^ÈÅC[}}^&cA2@Á([d]¦Áæ]åÁ@åæ`]ã& q[•^•ÁæAáaccā]*ÈÅC[}}^&cA2@Áa]`^Á@[•^Á&[}}^&ca2[}} d[Á!^åAáaccā]*ÈÅC[}}^&cAc2@Áa]`^Á@[•^Á&[}}^&ca2]} 4[Á!^åAáaccā]*ÈÅC[}}^A&cA2@Áa]`^Á@[*^Á&[}}^&ca2]} ača3*ÈÅ/@Áa]æå^Á[cæa2a]iÅ4[}Å@A{^æåj3*Á*a*^Á[-Ás@Á{[]^!æe[iÉÅ



VY OÞÁÜU VOEÜŸ

Tæn∄c^}æ)&^ÁÛ^&ca[i}}ÁiËFÌ

FCH5FM?B≓9°F9D@579A9BH

- $\label{eq:FE_field} FE_{fi} = \int d^{A} \hat{A} + \int d^$
- $\begin{array}{c} \dot{\mathbf{C}} \dot{\mathbf{C}} &$
- HÈ Š`à^Áo@^æå•Á,ão@4æå•á,ão@4æå•á,ãeË4,[d;¦Á;ã44,¦Á'¦^æ•^ÈAQ,•œa|Áå[|orÁo@[`*@Á}ã^Áæà,å&ã \Á4][{Áå[cd[{Áãã^A, Å åã \ÈAQ,•œa|Á,^,Á^|-Ё[&\ã]*Á,`orÁæ}åÁg{¦``^Aó@{{Á[€€ÁdĚ|à•È
- IÈ V@^Á}ãç^•Á@{*`|åÁ;ðj*Á¦^^|^Á[Áæà•[¦àÁ@{&&•Á¦[{Áã[]æ&oÁ;@}}Ádãðj*Á;àb%&o•ÈĂ

A WARNING Y PÒÞÁÔWWVQ ÕÆÒŒXŸÁÓÜWÙPÉSÞŒ⊘ÒÁÓUŠVÙÂJPUWŠÖÁÓÒÁQ⇒ÙÚÒÔVÒÖÆUWÜŠŸÁŒÞÖ ÜÒVUÜÛWÒÖÁ∕UÆF€Ĩ€ÆÖÜŸÁJÜ€€ÆJŒŠÒÖÆ∕WÈŠÓÙÈ

F9D@579A9BHC: FCH5FM8=G?

لاَمْظَمَّا الْمَرْكَبُولَا اللَّامَةِ اللَّامِ عَلَيْهُمْ اللَّالِي عَلَيْهُمْ عَلَيْهُمُ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمُ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمُ عَلَيْ عَلَيْ عَلَيْهُمُ عَلَيْهُمُ عَلَيْ عَلَيْهُمُ عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمُ عَلَيْهُمُ عَلَيْهُمُ عَلَيْ عَلَيْهُمُ عَلَيْهُمْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْكُمُ عَلَيْهُمْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْهُمْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ عَلَيْ مُوالا اللَّالِي مَا عَلَيْهُمْ عَلَيْهُمْ عَلَيْهُمْ عَلَيْ عَلَيْ عَلَيْ عَلَيْهُمْ عَلَيْ عَلَيْ عَلَيْ عَل

V@Ab[|orÁc@eerÁeecce&@ko@Á}ã^Át[`}cāj*Ábã`\Át[Ác@Á]ājå|^Át`•oAb^Át¦æå^ÂiÈÁ/@•^ÄiÐÁbj&@Áāj^Ác@^æåÁ^¦ã*• à[|orÁed^Át[{ab^Át[¦``^åÁees&[¦åāj*Át[Ác@Á&@eebc4bjÁc@earÁ*A*&cat]}È

CBÁc@^æåÁ[&\ā]*Áe*^}o4; æ^Áa^Áea]]a?åÁt[Ác@^æå•Á;-Áea|Á;[`}cā]*Áa[|o•Áa^-{;\^Ác@^^Áea^A5;•cæ|^åEA

8]g_gʻa i ghʻVY`]bgdYWMXXUJ`miZcfʻ\Ujf`]bY`WUW_gʻVYhkYYbʻgd]bX`Y`a ci bh]b[`Vc`hgʻcfʻUfci bX`h\Y`_b]ZY a ci bh]b[`Vc`hg"H\YgY`WUW_g`]bX]WUM'a YhU`ZUh][i Y`WUi gYX`VmigYj YfY`UVi gY"=ZWUW_gʻUfY`dfYgYbH"h\Y X]g_`a i gh`VY`fYd`UWYX"

Q,•]^&ofo@/&iā\/4;[`}caj*/&i[|or/&iaaa‡^^, @}/&&@&&;aj*/&at@op^+••/4;~/&i|aaå^4;([`}caj*/&i[|orExtoxAxa&ia*/A;[`}caj*/&i[|ofa; |[[•^Êban4;`*orAi^A/{[c^aiExc@/~aaå*•/&i/~aa}^aEt+/~*@Ac@^aaå/A[&\aj*/&at^?}orAad;]|ataEtaaa}a/Acat@^}^aAdat@A ;caat^^È

QÁ∞aÁ}ã^Á([`}@3*Áði[|óÆiÁ[[•^Êbo@Ai^|-Á[&\ā]*Á,`oÁ(`•oÁs)^Á^]|æ&∆åÁee Áæá׿^ćÂ,¦^&æč@ā}}È&Š`à¦a8ææ∿Áo@^æå• ,ã@Áæ)aãe¯^ã^Ê*¦^æ•^Á;¦Á([dː¦Á;ãÈÁu|æ&∧Ási[|orÁc@[`*@Ái}ã^Áæ)åÁåã\Á¦[{ Áà[cd[{ Árãå^Á;~Áåã\ÈÓQ•œa|Ár^|~ |[&\ā]*Á,`orÁæ)åÁt[¦``^Áxo@{ Át[€€ÁdĚÅà•È

- FÈ K5FB=B; .Án YX]g_`UcbY`kY][\hg`cjYf`%\$\$``Vg"ÁÓ^Á` \^&ar Á ^ã @x%aa) Áa^Á`]][\c^àÁa^-{ \^&arcomecondot } cip * q Á^]|ast^ÈV@ Á • ^Á; ^&ardíacá(^&@arcomecondot) ast^{ ^} data
- GÈ Ü^{ [ç^Ás@ Á ãcÁsã \Á, [č} cā) * Ás[|or Ása) å Ás@ Ásã \Á¦[{ Ás@ Á] ā; å|^È
- HÈ Q,• cæ|Á,^, Á‰ã*∖Áæ) å Áæ¢ã*} Á, ãc@Á, [`} cāj* Á‰[|cÁ@2|^•È
- IÈ CE]]^ÁæÁv@^æåÁ[&\j}*Áæ*^}cÁt[Áæ#|Á;Áv@Át[``}cāj*Áù[|orÁæ}å/§j•cæ#|Áv@Áù[|orÁv@[`*@kv@Abaã\È NOTE: Disk bolts must be Grade 8.
- ÍÈ Vãt@c^}Áa[|o•Áa[,}Áæ);åAg[¦˘`^Áq[Áçæ|č^•Á,[c^àÈ
- ÎÈÙ^^Á}ã^Á^]|æ&^{ ^}ơ\$\$;•d`&qā;}•Á{¦Á^]|æ&ā;*Á@A}ãç^•Á;}q[Ás@A,^_Á&ã*\È

VY OD ÁÜU VOEÜŸ

Tænjor}æ)æ}&^ÁÙ^&aa[}ÅËFJ

<95 J M 8 I HM GD=B8 @9 5 GG9 A 6 @M = BGH5 @@5 H=C B 5 B8 6 95 F=B; 58 > I GHA 9 BH

 شکل ۲۰۰۰
 ÁT WÙVÁs^ÁŤ •^åÁť Áðj • cællÁs² ælðj * Á&č] • ÉÁs² ælðj * Á&í } • ÉÁæl åÁr ^ æle ÉÖÜ ÁP UVÁ • ^ Áæ

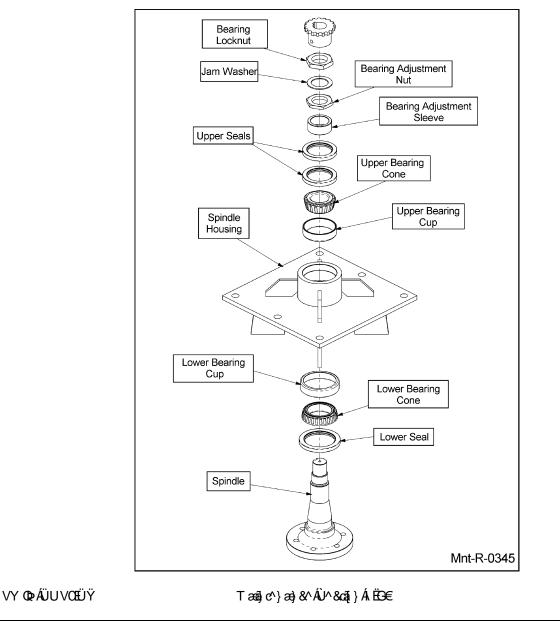
 شکل ۲۰۰۰
 ÁT WÙVÁs² Áť •^åÁť Áðj • cællÁs² ælðj * Óťát í Ás² ælði * Ášč] • ÉÁs² ælði * Áší } • Éás² ælði * Óťát í ás² ælði * Óťát í ælði * Áť ælði * Áť ælði * Áť ælði * Áť ælði * Áť ælði * Áť ælði * Áť ælði * Óťát í ælði * Áť

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

6 Y`gifY`hc`k YUf`YmY`dfchYWN]cb`UbX`ch\Yf`dfchYWN]jY`Yei]daYbh`Ug`bYYXYX`k \Yb`k cf_]b[`cb`gd]bX`Y UggYaV`m'

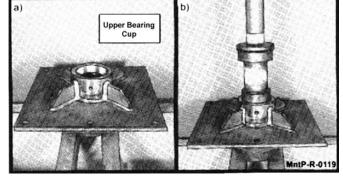
H<9 GD=B8 @9 5 GG9 A 6 @M

Ù^^Ás@e/Åsãeet'¦æ{Ás^|[,Á{;/Áss^}cãa8ææaā[}Á[,Á]]]ajå|^ÁjætorÉÄ;@aj^Á^¦çã&a]*È



695F=B; =BGH5@@5H=CB

- FÈ Ú¦^••Á`]]^¦Áà^æðð *Á&`]Áðð (É Á c@Á•]ðð å|^ @(* •ðð *Á
- CÈ \\" \} Ác@ Ár] āj å |^ Á@ `•āj * Ái ç^\ \ Áæj å Áj \ ^•• Áij Ác@ [[, ^\ Áæ) a áj * Ái] È
- HÈ Úļæ&^Ác@ Áļ[, ^¦Áà^æłā,* Á&[}^Áaj,Ác@ Áà^æłā,* &`]ÈÁ Þ^¢cÁ] ¦^••Ác@ Á•^æļÁāj (‡Ác@ Á•]āj å|^ @ţ`•āj,* ÈÁV@ Áāj }^!Á[aj,Á[_Ác@ Á•^æļÁ(`•cÁà^ ÖUY ÞÉÁ(],ælå•Ác@ Áà^ælā,* ÉÁ•[Á;àlá&æ),c/æ •^æ/å/Ag,•ãa^Á@, Á@;`•ā,* È
- IÈ Q• cællÁc@ Á] āj å |^Áşi Ác@ ÁQ * •āj * ÈŠŠät @l^ Ácælj Ác@ ^} å Á[Ác@ Á] āj å |^Áj ãt@ Ace fi = có æ&^ å Ácælj { ^!Át • ^ ær Ác@ Á] āj å |^ Áce tæs] • có @l Ás ^ æstāj * Áşi } ^ ! Á æ&^ È



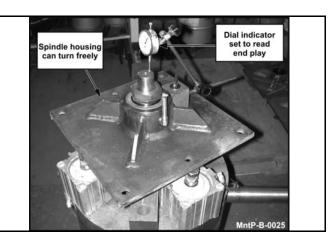
- ÍÈ \/`¦}Áv@A´]ājå|^Á@[`•āj*Á;ç^¦ÁÇ]Á;[•ãaā;}DÁæjåÁā;|Ájão@Á/ã*^¦ÁÙ]ājå|^ÁŠ`à¦a&æjAÁ;‡æoÁ;`{à^¦ÁÊÎÍI€€€€DÁ; c@A{i]Á^{*}a*^Á;-Ás@A´]]^¦Ásà*a&āj*Ásč]È
- ÎÈÙ`]][¦ơÁ@Áà[ɑ[{Áį,-Áo@Ái]ājå|^ÁæjåÁj:\^••Áo@Á`]]^¦Áà^æðāj*Á&[}^ÁæjåÁà^æðāj*Áæåbi*d{ ^}oÁ;\^ç^Ái}d c@Ái]ājå|^È

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

- iÈ Ú¦^•• Áx@ Áx [Á]] ^¦Á^ 懕 Ákk q (Áx@ Á] ð å|^ÁQ * ð * ÈV @ Ákk } ^¦Áð Áx 懕 Ák * ofta ^ ÁNÚÉ æç æ Âk [{ Áx@ Á * æ‡ Åk * ofta ^ ÁNÚÉ æç æ Âk [{ Áx@ Á * æ‡ Åk * êk æt * ofta ^ ÁNÚÉ æç æ Âk [Á ¢ & * Á * à ! & æ ð of & æ ð ^ È
- ÌÈQ•cællÁ@Áå^ælā*Áæåb*•q(^}ch}chQ@JÁ,*ChQ@JA,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JÁ,*ChQ@JA,*C ChQ@JA,*Ch

695F=B; 58>IGHA9BH

- FÈ Ô|æ{] Á@ Áa[cd[{ Á} à Å[Á@ Á] ā å |^ Á^&` |^ Áa æáşã^Á[Á@ Á] ā å |^ Á@ ` • ā * Ás` |} • Á\^^| È
- CÈ Ú[•ãā] À ÁœÁ{ æ³ } ^cã&Áàæ• ^ ÁåãædÁðj å ã&ææ[¦Á[} Ác@ [čc¦Áåãæ{ ^c'¦Á[~Ác@ Á*] āj å|^Á@[č•ā] * ĚÁŠ[&ææ^ c@ Á*} å Á[~Ác@ Á\$ãædÁðj å ã&ææ[¦Áæ* æðj • chc@ Á|ææÁ*} å [~Ác@ Á*] āj å |^Á* @eectĚA/@ ÁsãædÁðj å ã&ææ[¦Áj ā]A[] { ^æ* |^Ásæ&&` |æe^\[^Ásh^ædā] * Á*} å Á] |æÊ È
- HÈ Vã @c^}Ás@Aá^ædā]*Áseåbš•c{^}cÁ`}čÁ`}čAáAô@~¦^Áār €ÈEFGÁ53&@ák[[ç^{^}cÅ]@?}Ás@(Á]]ā]å|^Á@[*•ā]* ã-Á;¦ã∿åÁ]]ædåÁseçæ∂Á¦[{Ás@Aýār^Áseç•È
- IÈY@}Â&@¦^ÁarÁÉEEFGÁB;&@Á\^^Á,|æêÁâ^cç^^}Áo@ •]]];å|^Áæ);åÁ@;č•]]*ÉBB;•œe|Áx@.Áa^æe]]*Á[[&\Á`c Ç@BK\Á;č0DEAP[|åÁv@.Áæåbč•c3]*Á]čóArA&č¦^|^Áæ);å c3*@^}Áx@.Á[&\Á;čAtEAÆÅå•EA_Æ{[-***



ÍÈ CEơ\Áo@Á[&\Á`ó≦a Ác∄ @^}^åÊo@\^Á(`•o/ás^ÁEÈE€FÁ§&@Át[ÁEÈE€HÁ§&@Át[ÁEÈE€HÁ§&@Át[ÁEÈE€HÁ§&@Át[Á±^ậ*Á]Á; c@Á]]]] å å \^ÁQ; `•]] * ÈÁ

ĢÁc@Á*}åÁ;|æ?Á\$āÁ&[!!^&c£ÉEEFÁ\$J&@Át[ÁEÈEEHÁ\$J&@ÉÈà^}åÁææà∙Á*]Á;}Áææ{Á,æ®@¦Át[Á;!^ç^}óÁc@Át[&\Á;`óÁ+[{ |[[•^}}āj*ÈGÁc@Á*}åÁ;|æ?Á\$āÁ¤UVÁ&[¦!^&c£Ék[[•^}Ác@Át[&\Á,čóAæ}åÁč'}Ác@Áæåbĭ•c{^}ơ4;čóAæÅA*čä^åÁæ}åÁ^Ë cāt@^}Ás@Át[&\Á`óÉkÜ^]^æxÁā•oA;ædA[~Ác?]Á ÉÁ

VY OÞÁÜU VOEÜŸ

Tæn∄ c^}æ) &^ÂÛ^&ca∦}ÅËGF

A 5 - BH9 B5 B7 9

85 = @	√TA 5 =BH9 B5 B7 9 [−] G7 < 98 I @9
	[¸ā]*Á•^¦ça&∧•Á•@[` åÁà^Á]^¦-{¦{ ^åÁåæaaî^Á[¦Á^ç^¦^ÁÌÁ@[[`,é•^¦ça&^ÊÁ-[[¸ā]*Ác@∘Áå^cæaa‡^å æ)&^Á§j•d`&caā[}•Á§JÁc@A[]^¦æe[¦©A[æ);≊aþÈ
	Úč{]ÁÖ¦ãç^ÁÛ@eedxÁÔ@^&\Á[¦Á^}åÁ; æ∂Áşi/ås¦ãç^∙@eeo/fa%s[č] ^¦Áse}åÁjčà¦ã&æe∿ÁseeÁ.^¦\•È
	Ô¦æ)\•@eeoÁscåæ)aejo^¦KÁQÁ^``a]]^åÁ,ão@Á`àà^¦Á'¦[{{ ^orÁ&@~&\Á&[}åãaā[}ÉÁ^] æ&^Á&Á(ã•ā]*Á(¦Á åæ{æ*^åÈ
	Úãç[ơ∱,[ậ]o•kkQ,b/skoÁ;¦^æ•^Á};đ≱ãaÁa‡]^æ;•ÁæaÁ}å•È
	P^妿ĭ a&Á-āncāj*∙kkÔ@∿&\Á-{¦Á ^æè∙Á,ãn@Á]æ}}^¦Á[¦Á&æååà[æååĚÁVã*@e^}Á-āncāj*∙Á[¦Á¦^] æ&∿Á@[•^• ā[{ ^åãaae^\ ^
	S}ãç^•kÁQ•]^&oÁ[¦Á(ã•ā)*Á;¦Áŝæ(æ*^åÁ}ãç^•Ê&@ee)*^ÁQ;} ^Á&[{] ^c^Á^o•DÁse Á,^^åÅ
	Tæn∄Á⊘tæ{^EDÖ^&\KÁW} ^∙∙Á[c@\¦,ãr^Ár]^&ãað\åÁ'^q[¦˘`^Áà[orÁæ&&[¦åā]*Áq[Áq[¦˘`^Ár]^&ãa&ææa[}•Áāj c@àÁr^&cā[}È
	P^妿ĭ ã&ÁQ ĭããÁŠS^ç^ KÁO2ååÉÁ5Á^˘ĭãl^åÉÁj,^¦Á↓ĭãåÁ^&[{{ ^}åæaã[}}●È
Ù^¦çã&^∕j́	Ĵ\^¦-{`¦{`^åÁà^K´´´´´`´´´´´´´´´´´´´´´´´´´´´´´´´´´´´´´
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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.

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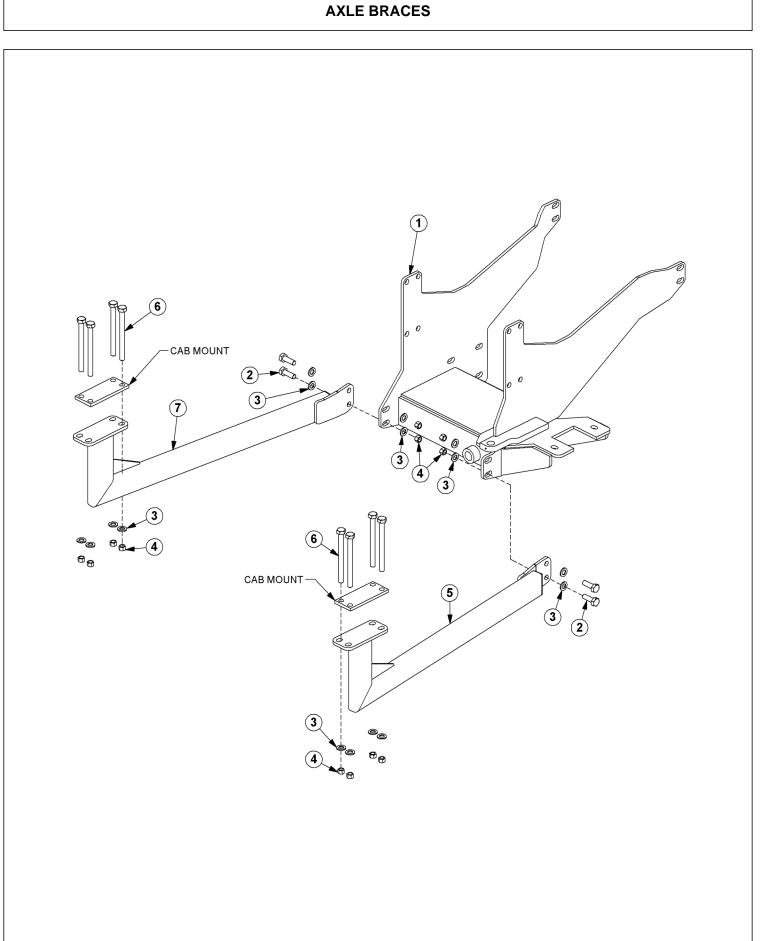


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Direct any questions regarding parts to:

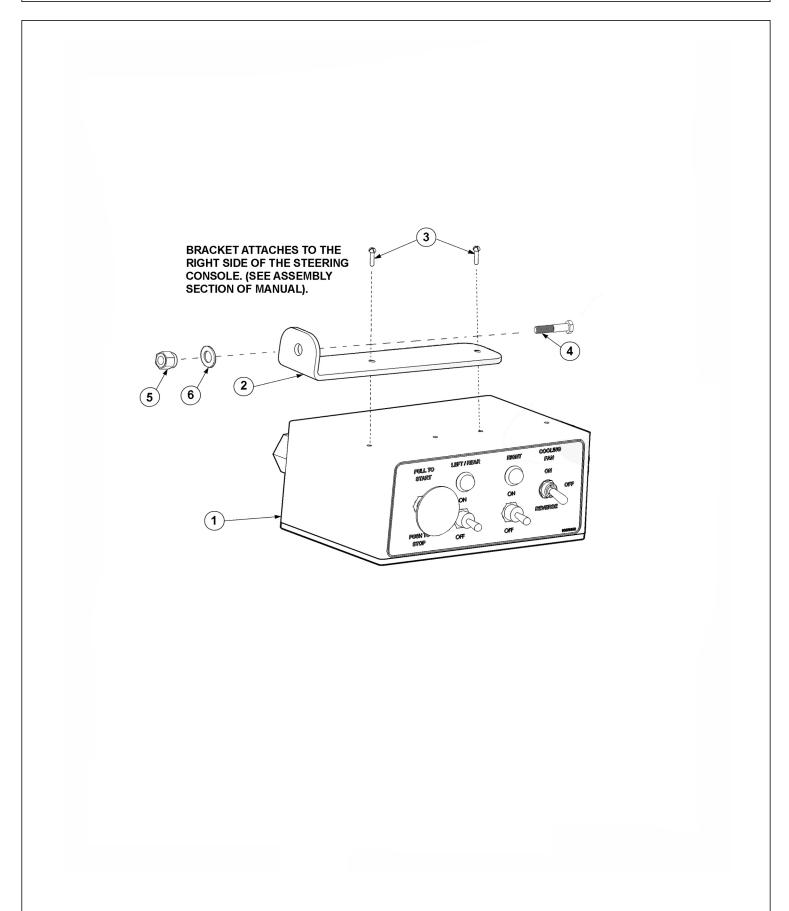
Tiger Corporation

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



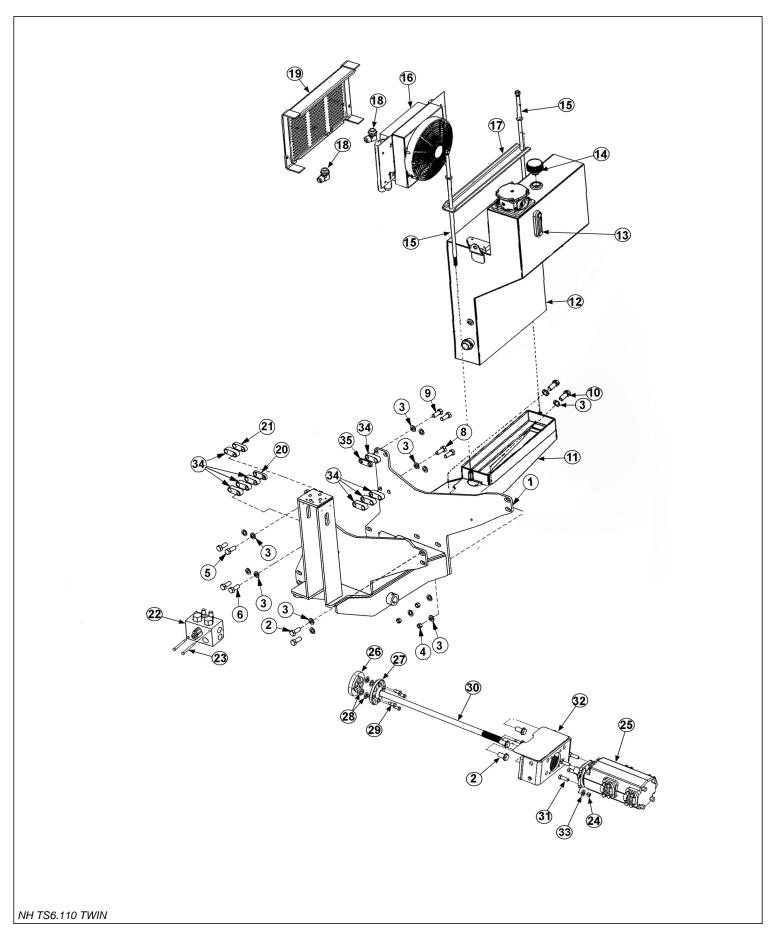
KIT PAGE

SWITCHBOX MOUNT



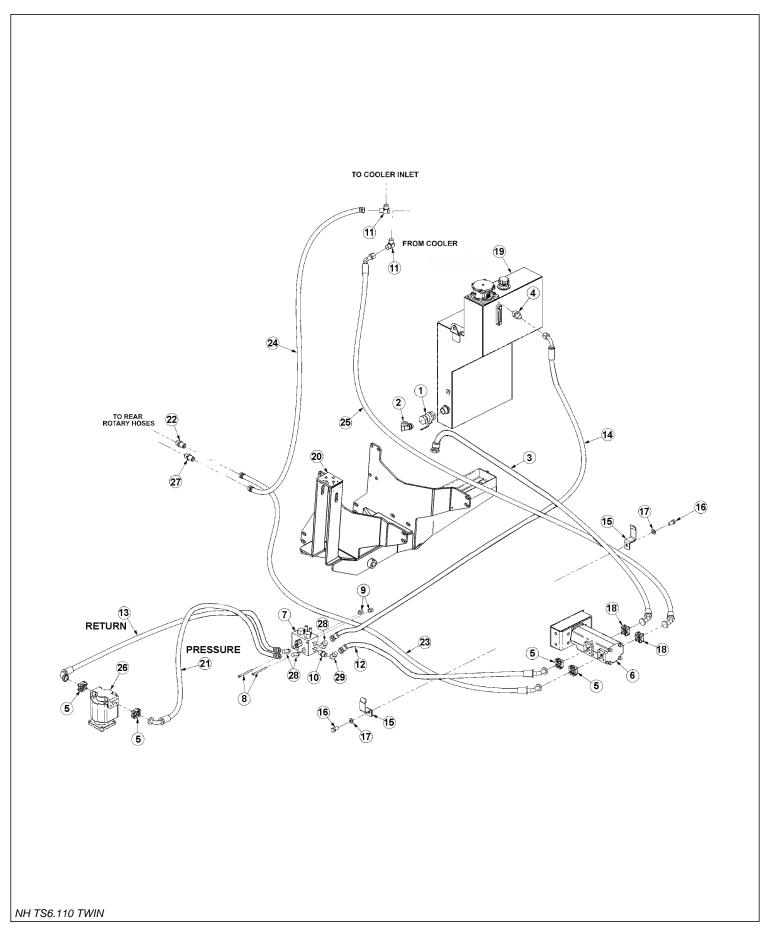
ITEM	PART NO.	QTY.	DESCRIPTION
1	06510097	1	SWITCHBOX, TWIN/T3F, GND
2	34496	1	BRKT, SWITCHBOX, UNI
3	32359	2	SCREW, MACHINE
4	21530	1	CAPSCREW, 1/4" X 1" NC
5	21527	1	NYLOCK NUT 1/4" NC
6	22014	1	FLATWASHER 1/4"

TRACTOR MOUNT KIT



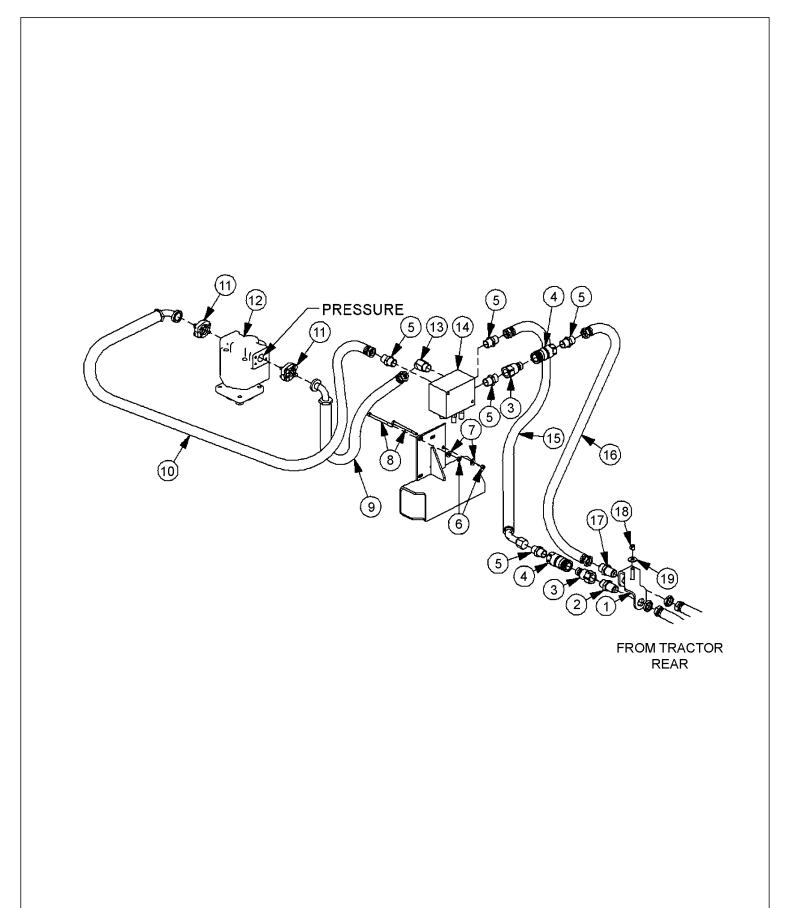
ITEM	PART NO.	QTY.	DESCRIPTION
1	06300222	1	MAINFRAME, TS6.110, TM, TSF
2	21831	10	CAPSCREW, 3/4 X 1-3/4 NC
3	33880	42	FLATWASHER, 3/4, GR 8, SAE
4	21825	16	HET NUT, 3/4 NC
5	30708	2	CAPSCREW, 20MM X 90MM, 2.5P, GR10.9
6	06530542	2	CAPSCREW, 20MM X 130MM, 2.5P, GR10.9
7	21627	5	NYLOCK NUT, 3/8, NC
8	06530537	2	CAPSCREW, 20MM X 120MM, 2.5, GR10.9
9	32285	2	CAPSCREW, 20MM X 75MM 2.5P, GR10.9
10	21833	8	CAPSCREW, 3/4 X2-1/4 NC
11	06300060	1	MNT, HYDRO TANK, JD6000
12	06380012	1	TANK, RES
13	06505067	1	SIGHT GAUGE
14	06505077	1	CAP, BREATHER, O-RING
15	06380014	2	TIE-BOLT, SIDE TANK, HYDRO
16	06510026	1	COOLER, FRONT MNT
17	06410352	1	CHANNEL, MNT, TANK, TIE-BOLT
18	34117	2	ELBOW, 1MBX1MJ, FORGED
19	6370015	1	SCREEN, COOLER, FRNT
20	06401629	1	SPACER, 1/2"
21	06401628	1	SPACER, 3/4"
22	06510083	1	VALVE, BRAKE, SOL, 3000PSE, METRI
23	21644	2	CAPSCREW, 3/8 X 5 NC
24	21725	4	HEX NUT, 1/2 NC
25	06504002	1	PUMP, TNDM, P350 1-3/4 X 1-3/4
26	06420144	1	SPACER, CRNKSHFT, T6020
27	6T0389	1	CRNKSHFT ADPT, IHC 885
28	06537004	4	WASHER, NEOPRENE .75X1.25X19
29	06535000	4	CAPSCREW, 7/16 X 1-1/4 CUTOFF
30	06420153	1	DRV SHFT, 30.00 LH, TS6.110
31	21732	4	CAPSCREW, 1/2 X 1-3/4 NC
32	06380042	1	MNT, PUMP, TS6020
33	06533004	4	FLATWASHER, 1/2, SAE, GR8
34	06401627	8	SPACER, 1"
35	06401630	1	SPACER, 5/16"

TRACTOR MOUNT KIT HYDRAULICS



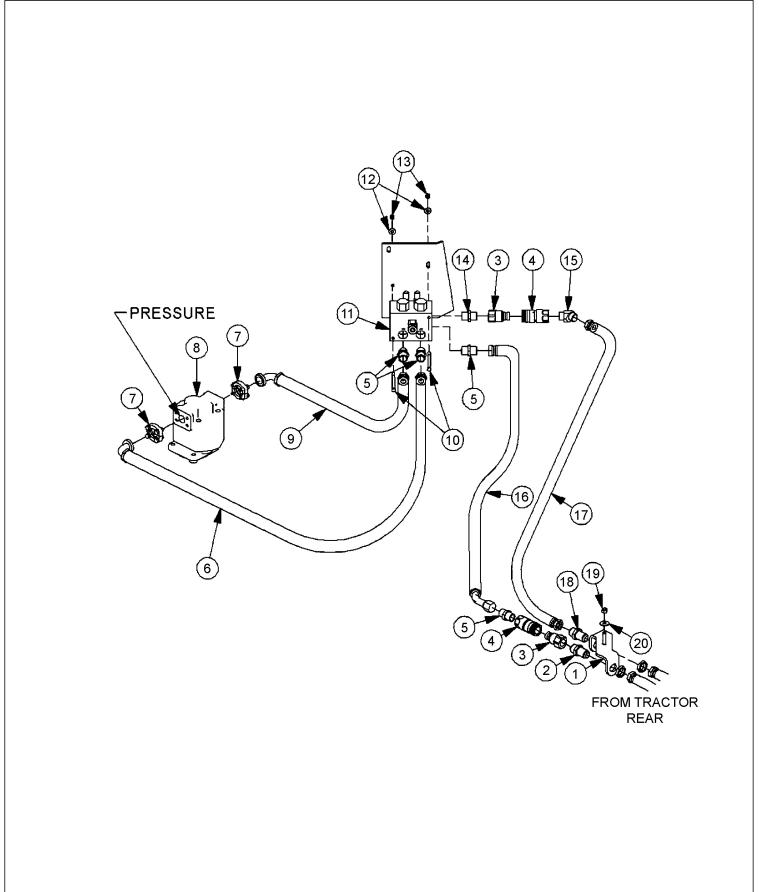
ITEM	PART NO.	QTY.	DESCRIPTION
1	34309	1	BALL VALVE, 1-1/2" FOR
2	34655	1	ELBOW, 1-1/2" MOR X 1-1/2" MJ
3	06500306	1	HOSE, #24X70"
4	34064	1	ADAPTER, 1-1/4" MOR X 1"MJ
5	TF4852	4	KIT, FLANGE, #20
6		-	PUMP,*REFER TO TRACTOR MOUNT KIT PAGE
7	06510083	1	VALVE, BRAKE, SOL, 3000PSI
8	21644	2	CAPSCREW, 3/8" X 5", NC
9	21699	2	NYLOCK NUT, 3/8" NC
10	35555	1	ADAPTER, 1" MOR X 1" MJ
11	34117	2	ELBOW, 1" MOR X 1" MJ90°, FORGED
12	06500594	1	HOSE, #16 X 68"
13	34416	1	HOSE, #16 X 75" (TM50)
	34293	1	HOSE, #16 X 80" (TM60)
14	06500328	1	HOSE, #16 X 96"
15	32382	2	BRACKET, HOSE
16	24860	2	CAPSCREW, 20MM X 40MM, 2.5P
17	33880	2	FLATWASHER, 3/4" SAE
18	TF4854	2	KIT, FLANGE, #24
19		-	TANK *REFER TO TRACTOR MOUNT KIT PAGE
20		-	MAIN FRAME *REFER TO TRACTOR MOUNT KIT PAGE
21	30309	1	HOSE, #16 X 78" (TM50)
	06200285	-	HOSE, #16 X 85" (TM60)
22	34183	1	ADAPTER, BULKHEAD
23	34199	1	HOSE, #16 X 153"
24	06500303	1	HOSE, #16 X 121"
25	06500305	1	HOSE, #20 X 110"
26		-	MOTOR *REFER TO COMMON PARTS SECTION
27	33287	1	FITTING, BULKHEAD
28	33554	3	ELBOW, 1MOR X 1MJ 45°
29	24724	1	ELBOW, 1FJ X 1MJ 45°

REAR MOWER HYDRAULICS - TSR MOWER



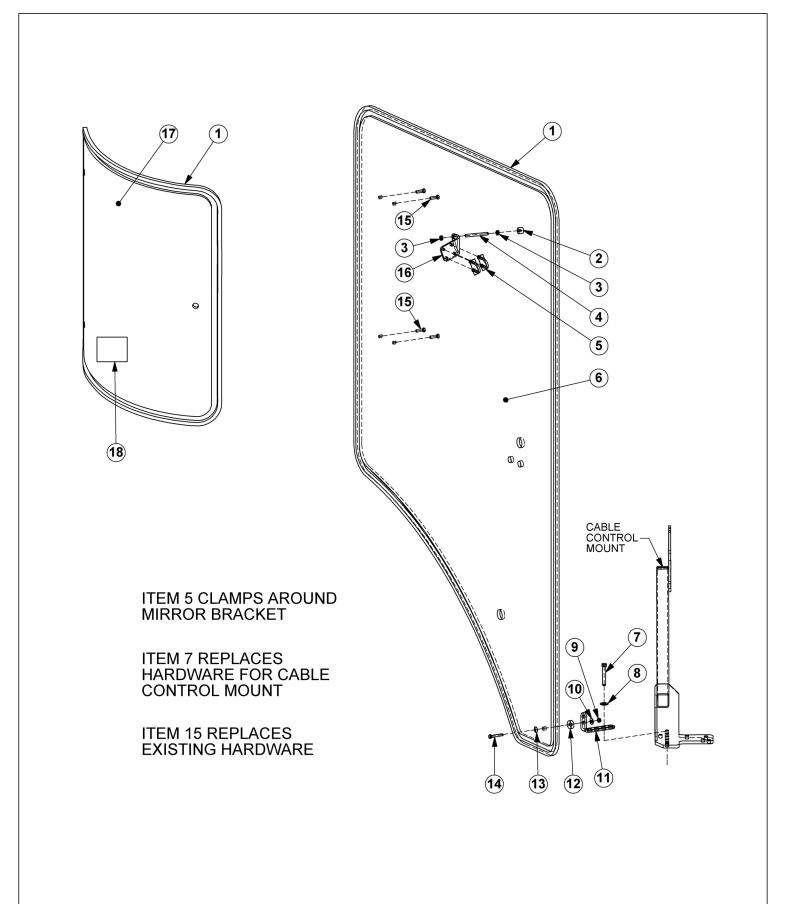
ITEM	PART NO.	QTY.	DESCRIPTION
1	34181	1	UNION BLOCK,TRR
2	33287	1	FITTING,BULKHEAD,1"MJ X 1"MOR
3	06503028	2	QUICK COUPLER,1"SAE,MALE,FLAT
4	06503027	2	QUICK COUPLER,1"SAE,FEM,FLAT
5	33555	5	ADAPTER,1"MOR X 1"MJ
6	21625	2	HEX NUT,3/8",NC
7	22016	2	FLATWASHER,3/8"
8	21644	2	CAPSCREW,3/8" X 5",NC
9	06500086	1	HOSE,1" X 24" (PRESSURE)
10	06500087	1	HOSE,1" X 42" (RETURN)
11	TF4852	2	KIT,FLANGE,#20
12		-	PUMP *REFER TO TRACTOR MOUNT KIT PAGE
13	33554	1	ELBOW 1"MOR X 1"MJ 45°
14	06510083	1	VALVE,BRAKE
15	06500104	1	HOSE,1" X 64"
16	34865	1	HOSE,1" X 57"
17	34183	1	ADAPTER,BULKHEAD,1"MJ X 1"MJ
18	21725	1	HEX NUT,1/2",NC
19	22018	1	FLATWASHER,1/2",WIDE

REAR MOWER HYDRAULICS - TM MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	34181	1	UNION BLOCK,TRR
2	33287	1	FITTING,BULKHEAD,1"MJ X 1"MOR
3	06503028	2	QUICK COUPLER,1"SAE,MALE,FLAT
4	06503027	2	QUICK COUPLER,1"SAE,FEM,FLAT
5	33555	5	ADAPTER,1"MOR X 1"MJ
6	34198	1	HOSE,1" X 40" (PRESSURE)
7	TF4852	2	KIT,FLANGE,#20
8		-	PUMP *REFER TO TRACTOR MOUNT KIT PAGE
9	34197	1	HOSE,1" X 33" (RETURN)
10	21644	2	CAPSCREW,3/8" X 5",NC
11	06510083	1	VALVE,BRAKE
12	22016	2	FLATWASHER,3/8"
13	21625	2	HEX NUT,3/8",NC
14	06503074	1	UNION,1"MOR X 1"MOR
15	33554	1	ELBOW 1"MOR X 1"MJ 45°
16	06500104	1	HOSE,1" X 64"
17	34865	1	HOSE,1" X 57"
18	34183	1	ADAPTER,BULKHEAD,1"MJ X 1"MJ
19	21725	1	HEX NUT,1/2",NC
20	22018	1	FLATWASHER,1/2",WIDE

POLYCARBONATE SAFETY WINDOW



ITEM	PART NO.	QTY.	DESCRIPTION
1	31965	23	TRIMLOCK (IN FEET)
2	33477	1	ISOLATOR
3	21575	2	HEX NUT,5/16",NC
4	33478	1	ROD, THREADED, 5/16" X 3"
5	32550	2	U-BOLT,ASSY
6	06490039	1	POLYCARBONATE, DOOR
7	21636	1	CAPSCREW,3/8" X 2-1/2",NC
8	22016	1	FLATWASHER,3/8"
9	21527	1	NYLOCK NUT,1/4",NC
10	22014	1	FLATWASHER,1/4"
11	06410672	1	BRACKET,BOTTOM
12	06537000	1	WASHER, NEOPRENE
13	06537001	1	WASHER,RUBBER
14	21533	1	CAPSCREW,1/4" X 1-3/4",NC
15	28583	4	CAPSCREW,8MM X 25MM,1.25P
16	06411375	1	BRACKET, TOP
17	06490040	1	POLYCARBONATE,REAR
18	22645	1	DECAL

NOTES

PARTS SECTION

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COMMON TWIN

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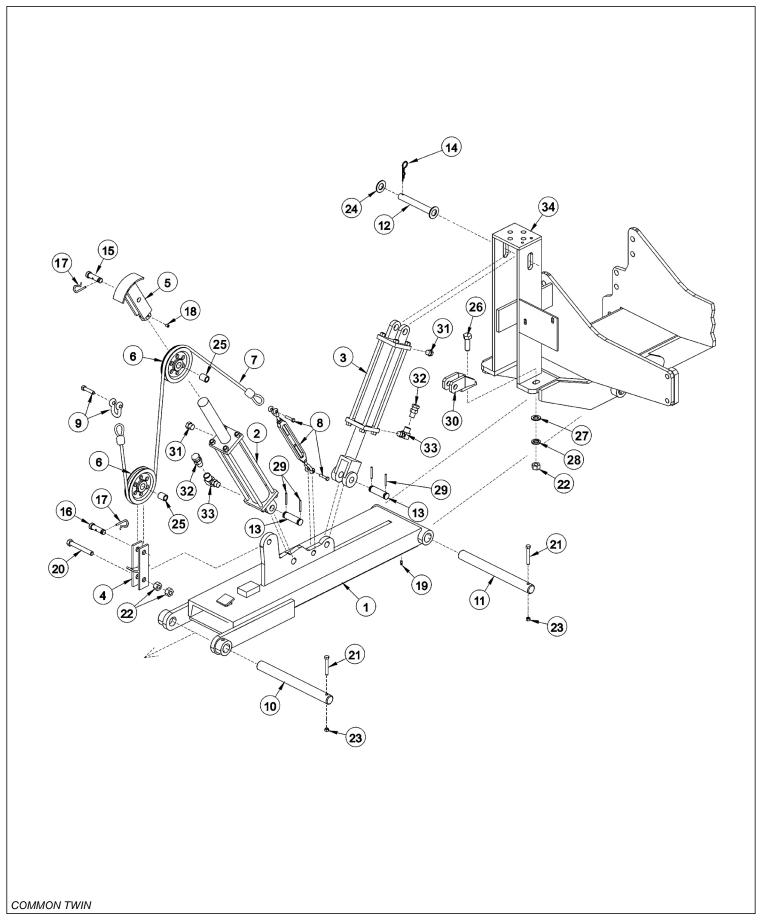
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3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

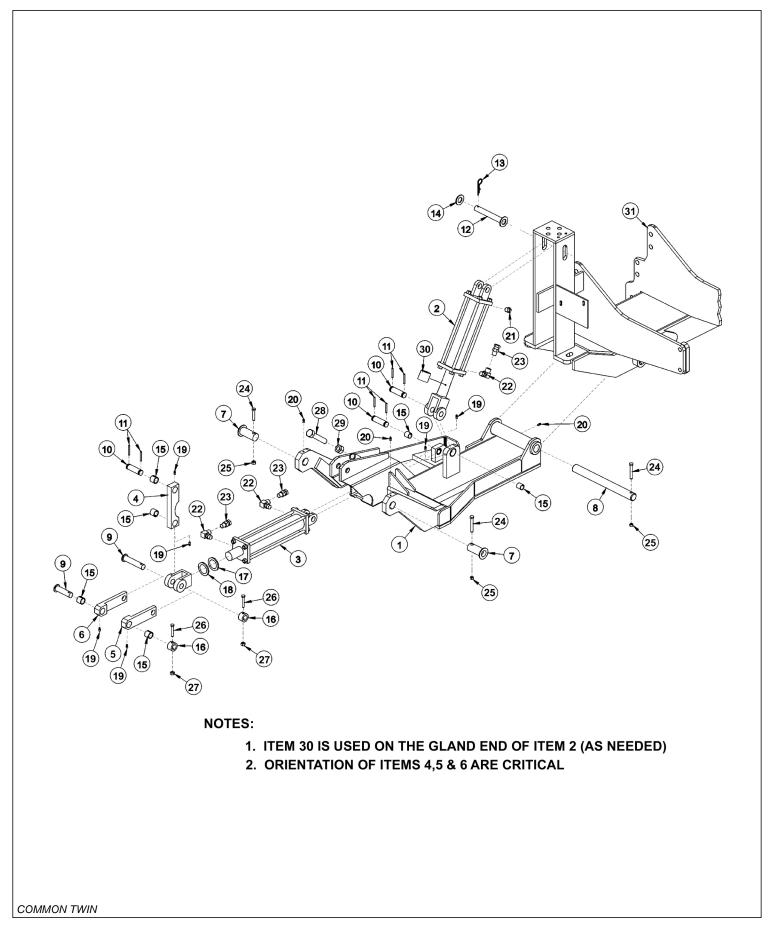
CABLE DRAFT BEAM ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	6T0105	-	DRAFT BEAM (STD WITH TRAVEL LOCK)
	27241	-	DRAFT BEAM (EXTENDED 6")
2	6T0150	1	CYLINDER 3" X 18"
3	6T0151R	1	HYD. CYLINDER 3" X 10"
4	6T0100	1	LOWER SHEAVE BRACKET
5	6T0101	1	UPPER SHEAVE BRACKET
6	33768	2	SHEAVE
7	6T0110	1	LIFT CABLE (STD 1/2" X 87 1/2")
	6T0110E	-	LIFT CABLE (EXTENDED 6")
8	6T0115	1	TURN BUCKLE
9	6T0112	1	SHACKLE WITH PIN
10	6T2999	1	OUTER DRAFT BEAM PIN 1 1/2" X 14 1/2"
11	6T3001	1	INNER DRAFT BEAM PIN 1 1/2" X 15 3/4"
12	6T3005	1	CYLINDER PIN 1" X 6 5/8"
13	TB1033	2	CLEVIS PIN 1" X 4"
14	6T3004	1	R - CLIP 3/16"
15	6T3010	1	UPPER SHEAVE PIN WITH ZERK 3/4" X 3"
16	6T3009	1	LOWER SHEAVE PIN WITH ZERK 3/4" X 2 1/2"
17	6T3020	2	R - CLIP 5/32"
18	6T2272	1	SET SCREW 3/8" X 1/2"
19	6T3211	1	GREASE ZERK 1/8" STRAIGHT
20	21837	1	CAPSCREW 3/4" X 3 1/4"
21	21688	2	CAPSCREW 7/16" X 3 1/4"
22	21825	2	HEX NUT 3/4"
23	21677	2	NYLOCK NUT 7/16"
24	22023	1	FLAT WASHER 1"
25	6T0104N	2	SHEAVE PIN BUSHING 1" OD X 3/4" ID
26	21833	1	CAPSCREW 3/4" X 2 1/4"
27	22021	1	FLAT WASHER 3/4"
28	21993	1	LOCK WASHER 3/4"
29	06537021	4	ROLL PIN
30	6T0106	1	TRAVEL LOCK BRACKET
31	6T4258	2	BREATHER 1/2"
32	34396	2	RESTRICTOR
33	34244	2	ELBOW FITTING 1/2"
34		-	MAIN FRAME *REFER TO TRACTOR PARTS SECTION

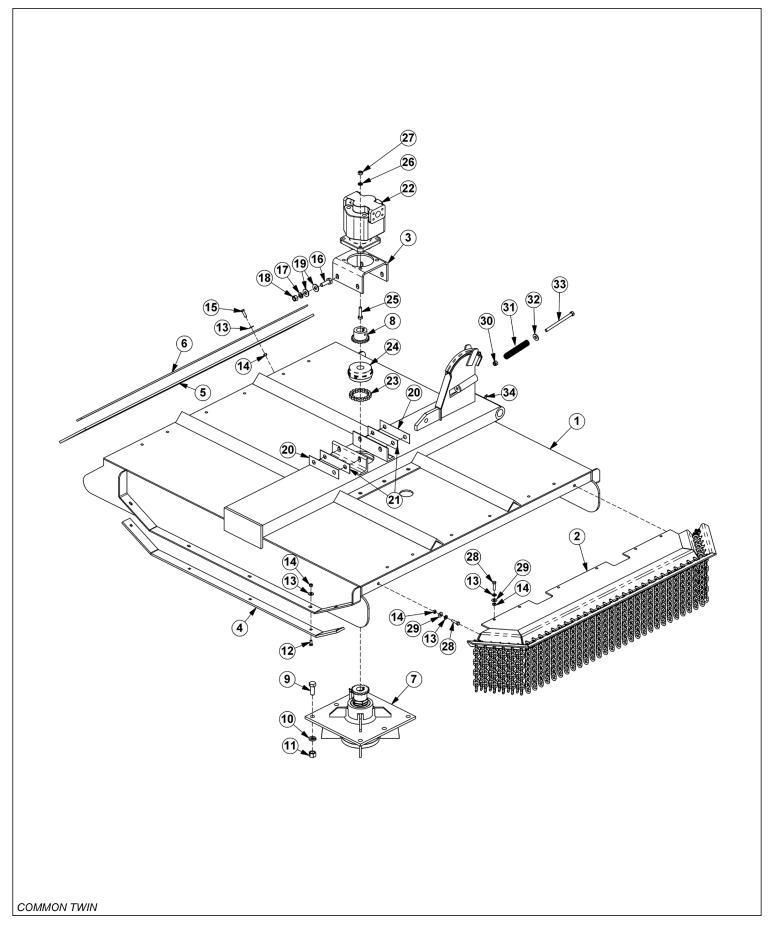
COMMON TWIN

COMBO DRAFT BEAM ASSEMBLY



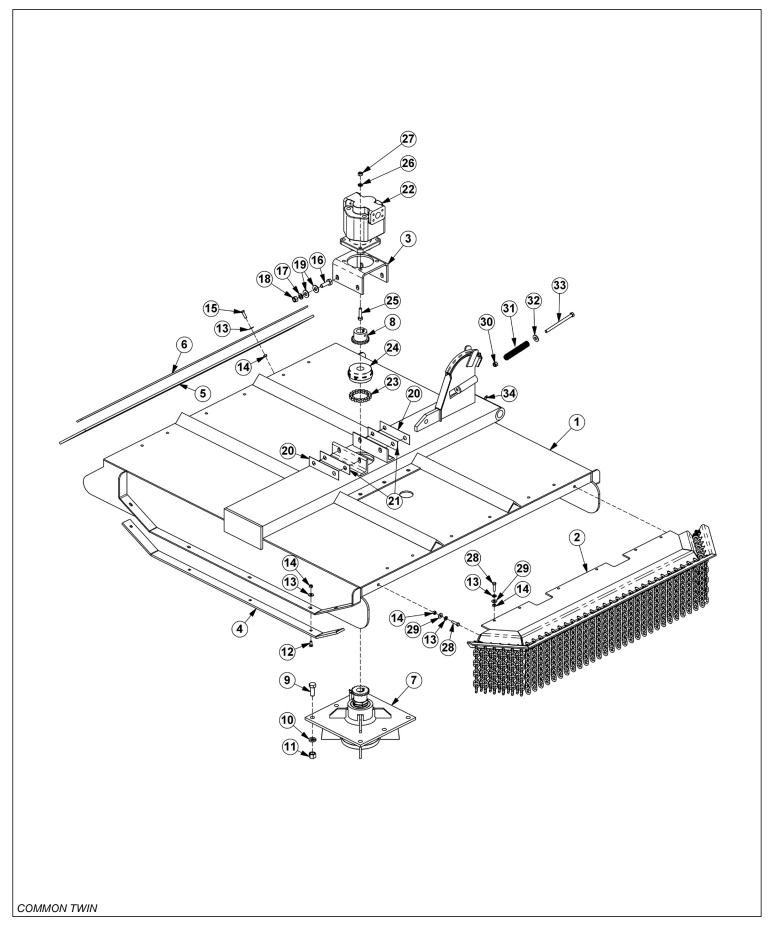
ITEM	PART NO.	QTY.	DESCRIPTION
1	06350001	1	COMBO DRAFT BEAM - STD DTY ROTARY
	31063	-	COMBO DRAFT BEAM - HVY DTY ROTARY
2	6T0151R	1	HYD. CYLINDER 3" X 10"
3	32215	1	HYD. CYLINDER 3" X 12" - STD DTY
	25343	-	HYD. CYLINDER 3" X 12" - HVY DTY
4	TF4500A	1	PIVOT ARM
5	TF4507B	1	RIGHT LINKAGE ARM
6	TF4506B	1	LEFT LINKAGE ARM
7	30126B	2	PIN, HEAD PIVOT - STD DTY
	TF4514A	-	PIN, HEAD PIVOT - HVY DTY
8	6T3001	1	PIN, BEAM PIVOT
9	TF4519	2	PIN, LINKAGE
10	TB1033	3	PIN, CLEVIS
11	06537021	6	ROLLPIN
12	6T3005	1	PIN,1" W/ CAP
13	6T3004	1	R-CLIP HAIRPIN
14	6T2614	1	FLATWASHER 1"
15	TB3010	8	BUSHING 1"
16	22847	2	BOSS, LINKAGE PIN
17	22076	1	SPACER, HYD. CYLINDER 1/4"
18	22077	1	SPACER, HYD. CYLINDER 5/16"
19	6T3207	6	GREASE ZERK 1/4"
20	6T3211	3	GREASE ZERK 1/8"
21	6T4258	1	BREATHER 1/2"
22	34244	3	ELBOW FITTING 1/2"
23	34396	3	SWIVEL RESTRICTOR
24	21688	3	CAPSCREW 7/16" X 3 1/4"
25	21677	3	NYLOCK NUT 7/16"
26	21635	2	CAPSCREW 3/8" X 2 1/4"
27	21625	2	HEX NUT 3/8"
28	21831	1	CAPSCREW 3/4" X 1 3/4"
29	21825	1	HEX NUT 3/4"
30	06700095	1	CYLINDER SPACER W/SET SCREW
31		-	MAIN FRAME *REFER TO TRACTOR MOUNT PAGE

60IN SIDE CABLE TM ROTARY MOWER



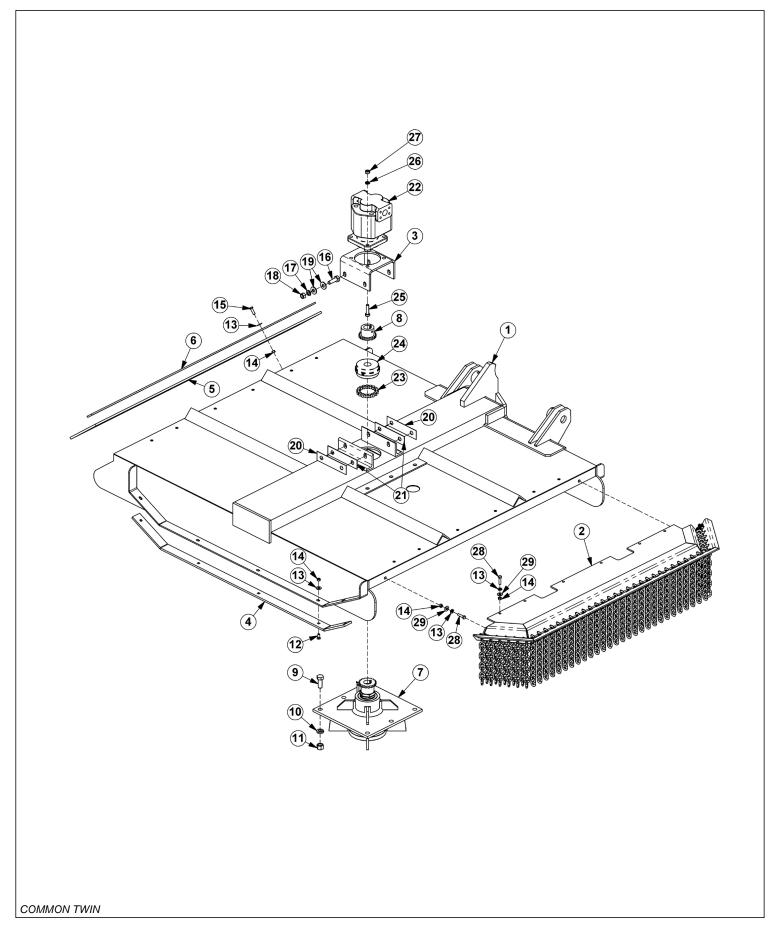
ITEM	PART NO.	QTY.	DESCRIPTION
1	32099	1	RTRY, 60" DECK, CABLE
2	31773	1	GAURD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	6T0820H	2	SKID SHOE, TM60
5	22592	1	FLAP, DEFLECTOR, TM60
6	6T0823	1	BAR, FLAP, TM60
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	6504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"
30	21727	1	NYLOCK NUT,1/2",NC
31	27005	1	SPRING, PUSHOFF, SIDE RTRY
32	22018	1	FLATWASHER,1/2",WIDE
33	21745	1	CAPSCREW,1/2" X 7",NC
34	6T3211	1	GREASE ZERK

72IN SIDE CABLE TM ROTARY MOWER



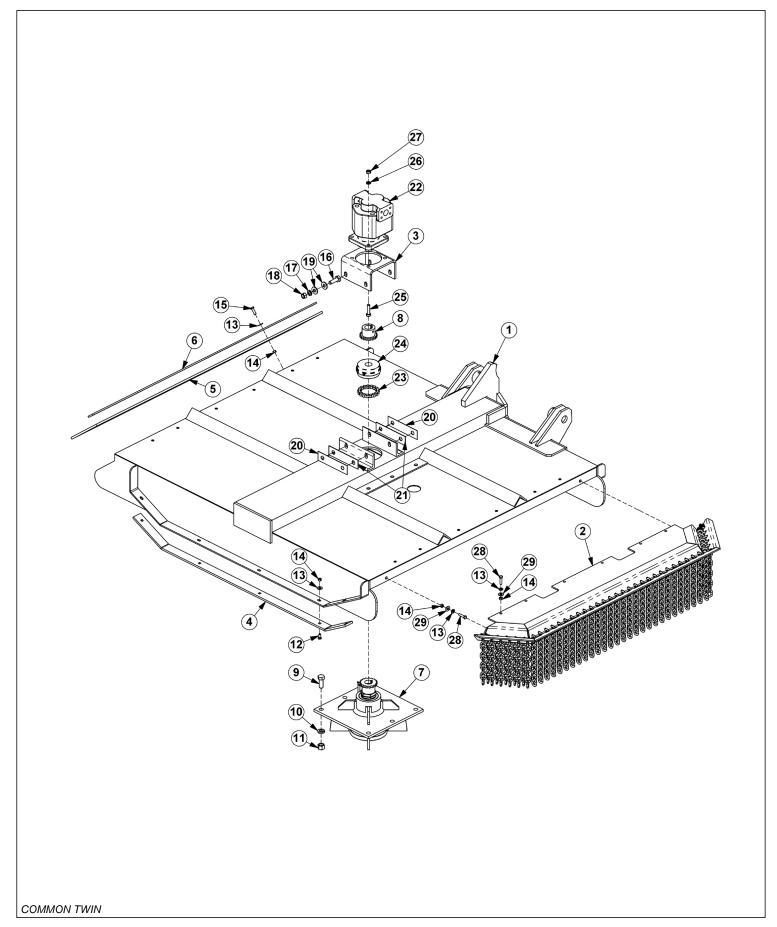
ITEM	PART NO.	QTY.	DESCRIPTION
1	21225B	1	RTRY,72" DECK, CABLE
2	31931	1	GUARD, CHAIN, FRONT, SR72
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	21248	2	SKID SHOE, TM72
5	21295B	1	FLAP, DEFLECTOR, TM72
6	21242A	1	BAR, FLAP, TM72
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"
30	21727	1	NYLOCK NUT,1/2",NC
31	27005	1	SPRING, PUSHOFF, SIDE RTRY
32	22018	1	FLATWASHER,1/2",WIDE
33	21745	1	CAPSCREW,1/2" X 7",NC
34	6T3211	1	GREASE ZERK

60IN SIDE COMBO TM ROTARY MOWER



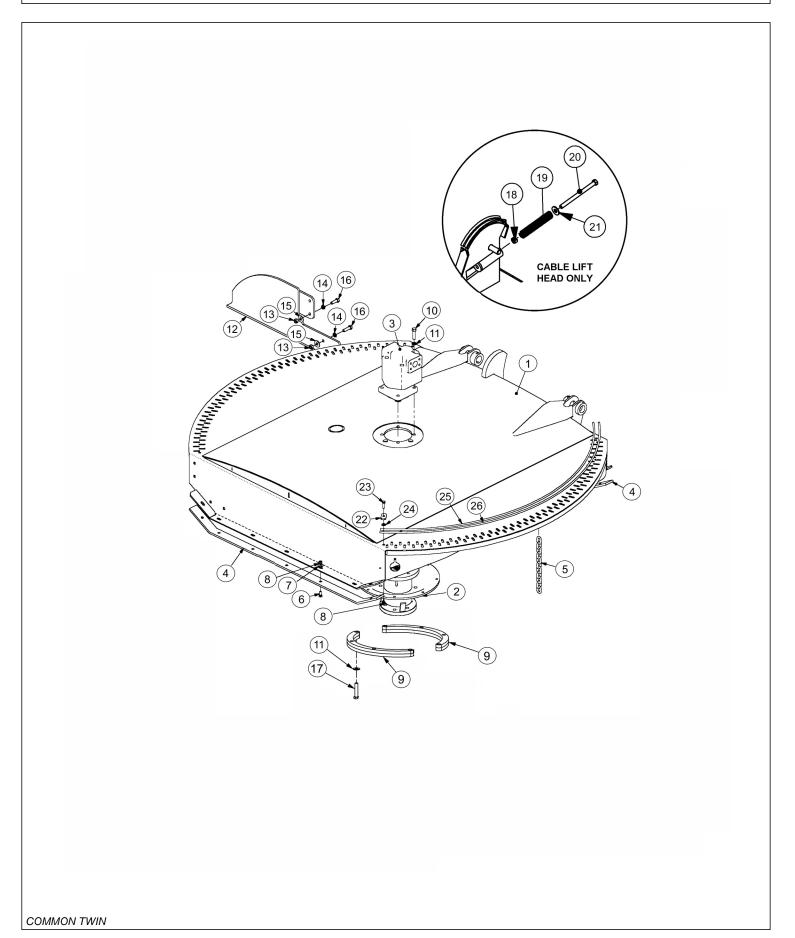
ITEM	PART NO.	QTY.	DESCRIPTION
1	30087D	1	RTRY, 60" DECK, COMBO - STD DUTY
	32617	1	RTRY, 60" DECK, COMBO - HVY DUTY
2	31773	1	GAURD,CHAIN,FRONT,SR60
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	6T0820H	2	SKID SHOE, TM60
5	22592	1	FLAP, DEFLECTOR, TM60
6	6T0823	1	BAR, FLAP, TM60
7	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"

72IN SIDE COMBO TM ROTARY MOWER



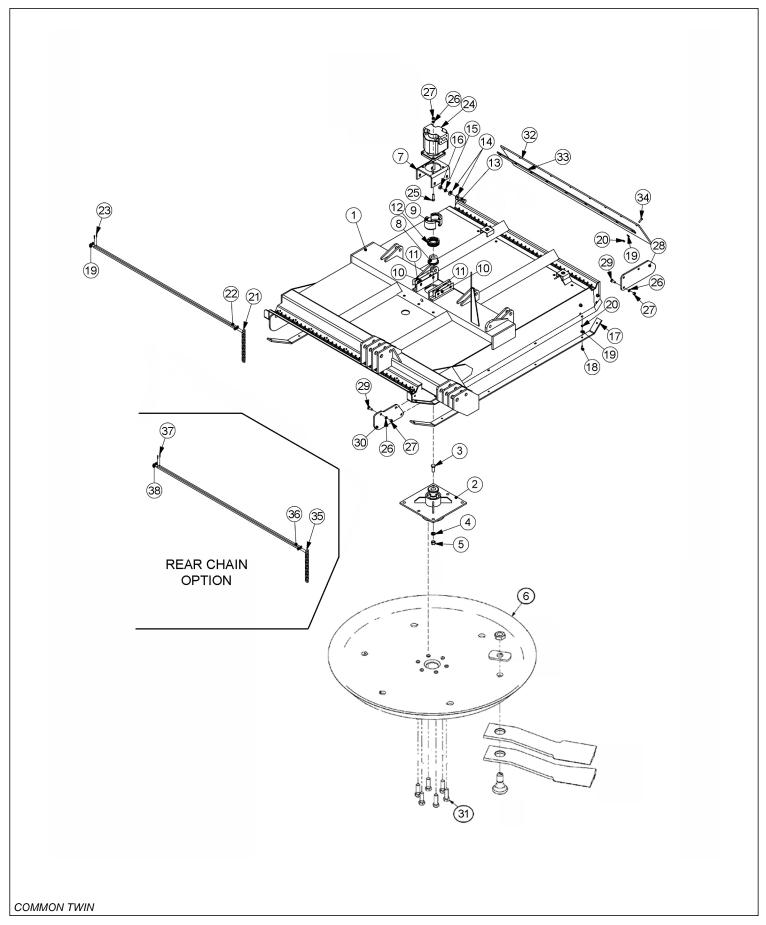
ITEM	PART NO.	QTY.	DESCRIPTION
1	34260	1	RTRY, 72" DECK, COMBO - STD DUTY
	31408A	1	RTRY, 72" DECK, COMBO - HEAVY DUTY
2	31931	1	GUARD, CHAIN, FRONT, SR72
3	6T1001	1	BRKT, MOTOR MTG, 60"SIDE RTRY
4	21248	2	SKID SHOE, TM72
5	21295B	1	FLAP, DEFLECTOR, TM72
6	21242A	1	BAR, FLAP, TM72
7	6T1024H5	1	SPINDLE ASSY, CPLT, HD, 5/8" HOLES
8	21223	1	SPROCKET, 1-1/4" BORE
9	6T2277	6	CAPSCREW,3/4" X 2",NF
10	21993	6	LOCKWASHER,3/4",GR 8
11	6T2413	6	HEX NUT,3/4",NF,GR 8
12	6T2270	10	PLOW BOLT,3/8" X 1",NC
13	22016	29	FLATWASHER,3/8"
14	21625	29	HEX NUT,3/8",NC
15	21631	11	CAPSCREW, 3/8" X 1-1/4",NC
16	21783	4	CAPSCREW, 5/8" X 2",NC
17	21992	4	LOCKWASHER, 5/8"
18	21775	4	HEX NUT, 5/8"
19	25270	8	FLATWASHER,5/8",GR 8
20	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
21	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
22	06504011	1	MOTOR,(M365-2 1/4" GEAR)
23	6T1029	1	CHAIN, COUPLING
24	6T1033	1	COVER, COUPLING
25	21733	4	CAPSCREW, 1/2" X 2",NC
26	21990	4	LOCKWASHER,1/2"
27	21725	4	HEX NUT, 1/2",NC
28	21632	8	CAPSCREW,3/8" X 1-1/2",NC
29	21988	8	LOCKWASHER,3/8"

60IN SIDE TSR ROTARY MOWER



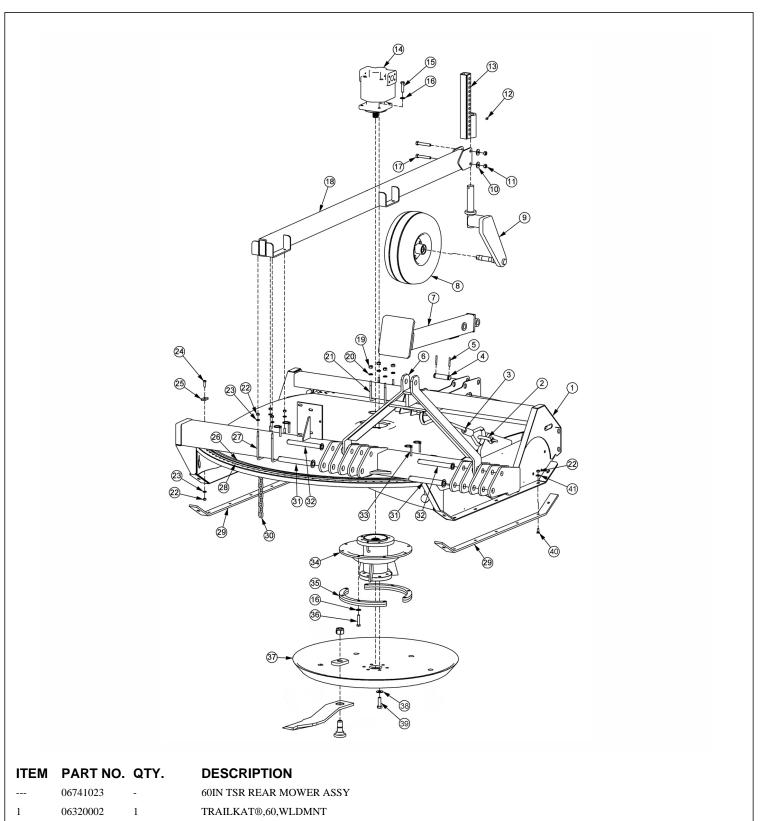
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	ITEM	PART NO.	QTY.	DESCRIPTION
	1	34975	1	HEAVY DUTY GRASSKAT COMBO
		06320005	1	STD DUTY GRASSKAT COMBO
		06320008	1	HEAVY DUTY GRASSKAT CABLE
	2	34980	1	SPINDLE ASSY,TM 60"
	3	06504016	1	CURRENT MOTOR,(M365-1 1/4" 14-SPLINE)
	4	06410254	2	SKID,OUTBOARD,TM60
	5	22992	156	CHAIN,10 LINK
	6	6T2270	14	PLOW BOLT,3/8" X 1" NC
	7	22016	26	FLATWASHER,3/8"
	8	21625	30	HEX NUT,3/8",NC
	9	06320011	2	SPACER, TSF, SPINDLE
	10	6T1025	4	CAPSCREW, 1/2 X 2,GR 8,NC
	11	06533006	4	FLATWASHER,1/2,SAE,GR 8
	12	06370029	1	TIRE GUARD, LEFT
	13	21725	8	HEX NUT, 1/2",NC
	14	21990	8	LOCKWASHER, 1/2"
	15	22018	8	FLATWASHER, 1/2",WIDE
	16	21731	4	CAPSCREW, 1/2" X 1-1/2" NC
	17	21732	4	CAPSCREW, 1/2" X 1-3/4" NC
	18	21745	1	NYLOCK NUT, 1/2
	19	21727	1	SPRING, PUSHOFF, SIDE RTRY
	20	27005	1	CAPSCREW, 1/2 X 7,NC
	21	22018	1	FLATWASHER,1/2",WIDE
	22	34972	4	PLATE,CAP,CHAIN
	23	21631	16	CAPSCREW, 3/8 X 1-1/4,NC
	24	21988	16	LOCKWASHER, 3/8"
	25	34974	2	ROD,CHAIN,INNER,TM60
	26	34973	2	ROD,CHAIN,OUTER,TM60
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60IN REAR TM ROTARY MOWER



	ITEM	PART NO.	QTY.	DESCRIPTION
		23003	-	REAR RTRY, 60" W/REAR CHAINS
	1	32616	1	RTRY, 60" DECK, TRR
	2	6T1024H5	1	SPINDLE ASSY,CPLT,HD,5/8 HOLES
	3	6T2277	6	CAPSCREW, 3/4" X 2" NF
	4	21993	6	LOCKWASHER,3/4",GR 8
	5	6T2413	6	HEX NUT,3/4",NF,GR 8
	6		-	DISK *REFER TO DISK & KNIVES PAGE
	7	6T1001	1	BRKT, MOTOR MTG, 60"
	8	21223	1	SPROKET, 1-1/4" BORE
	9	6T1033	1	COVER, COUPLING
	10	6T0822	2	SHIM, MOTOR MOUNT, 14GA. (AS NEEDED)
	11	6T0822A	2	SHIM, MOTOR MOUNT, 18 GA. (AS NEEDED)
	12	6T1029	1	CHAIN, COUPLING
	13	21783	4	CAPSCREW, 5/8" X 2",NC
	14	25270	8	FLATWASHER,5/8", GR 8
	15	21992	10	LOCKWASHER, 5/8"
	16	21775	4	HEX NUT, 5/8"
	17	23160A	2	SKID SHOE
	18	6T2270	12	PLOW BOLT,3/8" X 1" NC
	19	22016	21	FLATWASHER,3/8"
	20	21625	21	HEX NUT,3/8",NC
	21	22993	71	CHAIN, 5/16" GR30, 9 LINK
	22	22054	2	ROD, CHAIN HOLDER
	23	6T3028	2	COTTER PIN, 1/8" X 1"
	24	06504011	1	MOTOR, (M365 - 2" GEAR)
	25	21733	4	CAPSCREW, 1/2" X 2",NC
	26	21990	16	LOCKWASHER, 1/2"
	27	21725	16	HEX NUT, 1/2" NC
	28	33656	2	PLATE,GUARD,SAFETY,REAR,RTRY
	29	6T2267	12	CARRIAGE BOLT, 1/2" X 2" NF, GR8
	30	33655	2	PLATE, GAURD, SAFETY, FRONT, RTRY
	31	6T2290	6	CAPSCREW,5/8" X 2",NF GR 8
	32	24347	1	REAR DEFLECTOR FLAP
	33	24349	1	FLAP MOUNTING BAR
	34	21631	9	CAPSCREW, 3/8" X 1-1/4" NC
	35	22992	71	CHAIN, 5/16" GR30, 10 LINK
	36	22054	2	ROD, CHAIN HOLDER
	37	6T3028	2	COTTER PIN, 1/8" X 1"
	38	22016	2	FLATWASHER,3/8"
1				

60IN REAR TSR ROTARY MOWER



6T0112 2 SHACKLE,W/PIN,CPLT

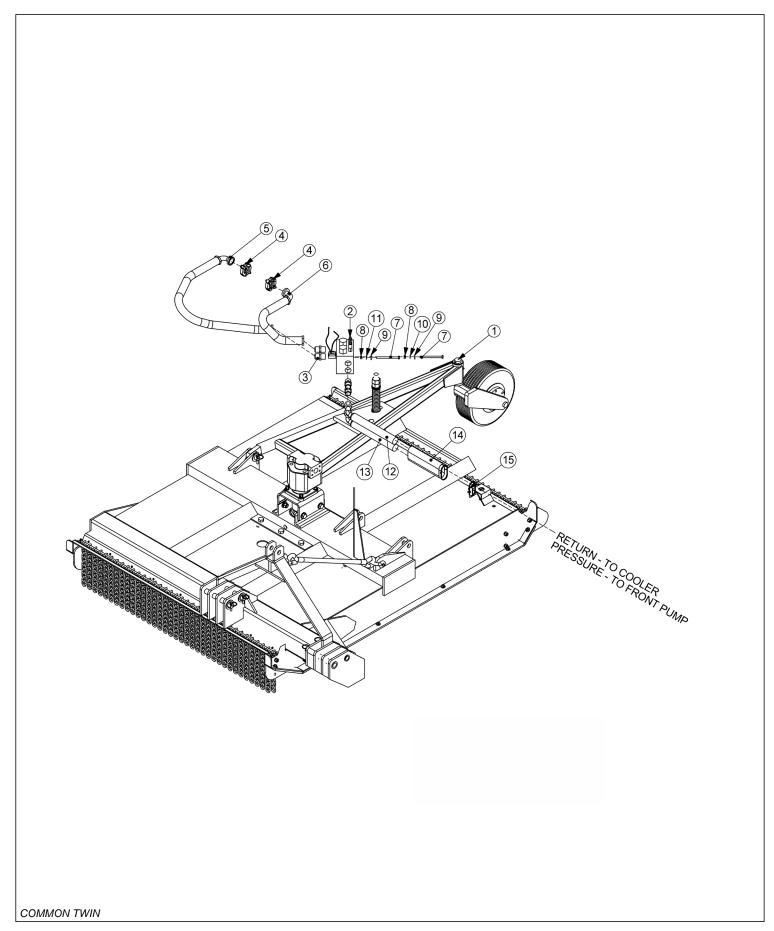
3 22051 1 CABLE,LIFT,TRR,60

COMMON TWIN

2

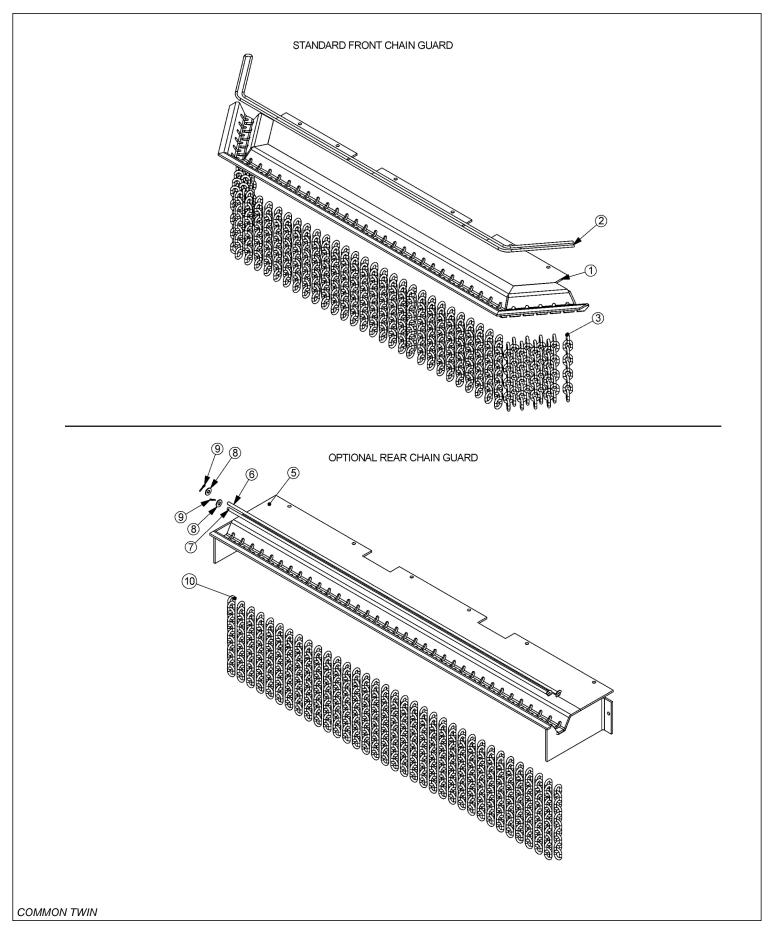
ITEM	PART NO.	QTY.	DESCRIPTION
4	06520425	2	PIN
5	06537021	4	ROLLPIN,5MM X 50MM,SS
6	21474A	1	HITCH,3PT,TRR
7	28511	1	STAND, SAFETY SUPPORT W/PAD
8	23329	1	CASTER WHL, SOLID TIRE W/SPIND
9	22057	1	SPINDLE,CASTER AXLE,ASSY
10	22018	2	FLATWASHER,1/2,WIDE
11	21725	2	HEX NUT,1/2,NC
12	6T3211	1	GREASE ZERK,1/8
13	06370003	1	CASTER ADJ,TRAILKAT
14	06504016	1	MOTOR,M365-1 1/4",SPLINE,SEALED
15	6T1025	4	CAPSCREW,1/2 X 2,NC,GR8
16	06533004	12	FLATWASHER,1/2,SAE,GR8
17	21738	2	CAPSCREW,1/2 X 3-1/4,NC
18	06370004	1	CASTER MNT, TRAILKAT
19	21700	4	HEX NUT,1/2,NF
20	21990	4	LOCKWASHER,1/2
21	06420003	2	U-BOLT,.50 X 3.25 X 5.00
22	21625	20	HEX NUT,3/8,NC
23	21988	6	LOCKWASHER,3/8
24	21631	2	CAPSCREW,3/8 X 1-1/4,NC,GR8
25	34972	2	PLATE,CAP,CHAIN
26	34974	1	ROD,CHAIN,INNER,TM60
27	06420005	2	U-BOLT,.38 X 5.63 X 6.31
28	34973	1	ROD,CHAIN,OUTER,TM60
29	06410254	2	SKID SHOE,TSR
30	22992	78	CHAIN,10 LINK
31	33698	2	PIN,1.13 X 9.00
32	33699	2	PIN,1 X 8.88
33	TF1143	4	LYNCH PIN
34	34980	1	SPINDLE ASSY,TM60
35	06320011	2	SPACER, TSR, SPINDLE
36	06530221	8	CAPSCREW,1/2 X 2-1/4,NF,GR8
37		-	DISK *REFER TO DISK & KNIVES PAGE
38	25270	6	FLATWASHER,5/8",USS,GR8
39	6T2290	6	CAPSCREW,5/8" X 2",NF,GR8
40	6T2270	14	PLOW BOLT,3/8" X 1",NC
41	22016	14	FLATWASHER,3/8",GR8

REAR ROTARY HYDRAULICS



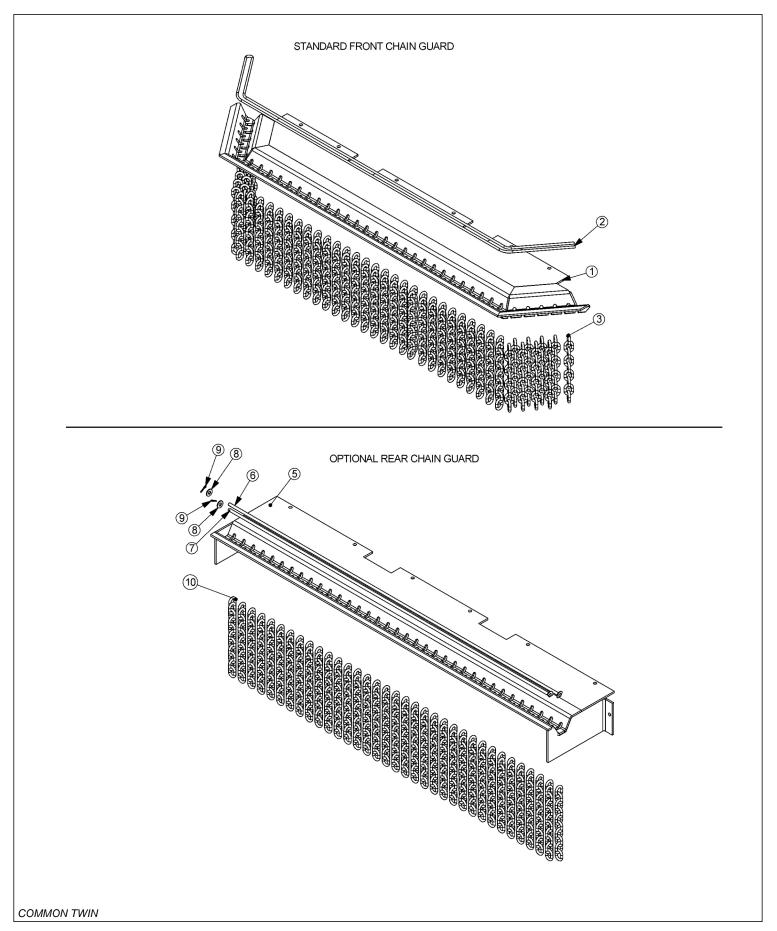
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	REAR ROTARY MOWER
2	06510083	1	VALVE,BRAKE,SOL,3000PSI,METRI
3	33555	4	ADAPTER,1MORB X 1MJIC (3 FOR TSR)
	33554	1	ELBOW,1MORB X 1MJIC,45 (TSR PRESSURE TO MOTOR)
4	TF4852	2	KIT, FLANGE, #20
5	34198	1	HOSE, 1" X 40" (TM MOWER RETURN)
	06500087	-	HOSE, 1" X 42" (TSR MOWER RETURN)
6	34197	1	HOSE, 1" X 33" (TM MOWER PRESSURE)
	06500086	-	HOSE, 1" X 24" (TSR MOWER PRESSURE)
7	21644	2	CAPSCREW,3/8" X 5" NC
8	21625	2	HEX NUT,3/8",NC
9	22016	2	FLATWASHER,3/8"
10	21988	1	LOCKWASHER, 3/8"
11	6T2665	1	STAR LOCKWASHER, 3/8"
12		1	HOSE (RETURN)
13		1	HOSE (PRESSURE)
14	33930	1	HOSE SLEEVE, TRR
15	6T1823	2	ZIP TIE, 14" STRAPS

60IN SIDE TM CHAIN GUARDS



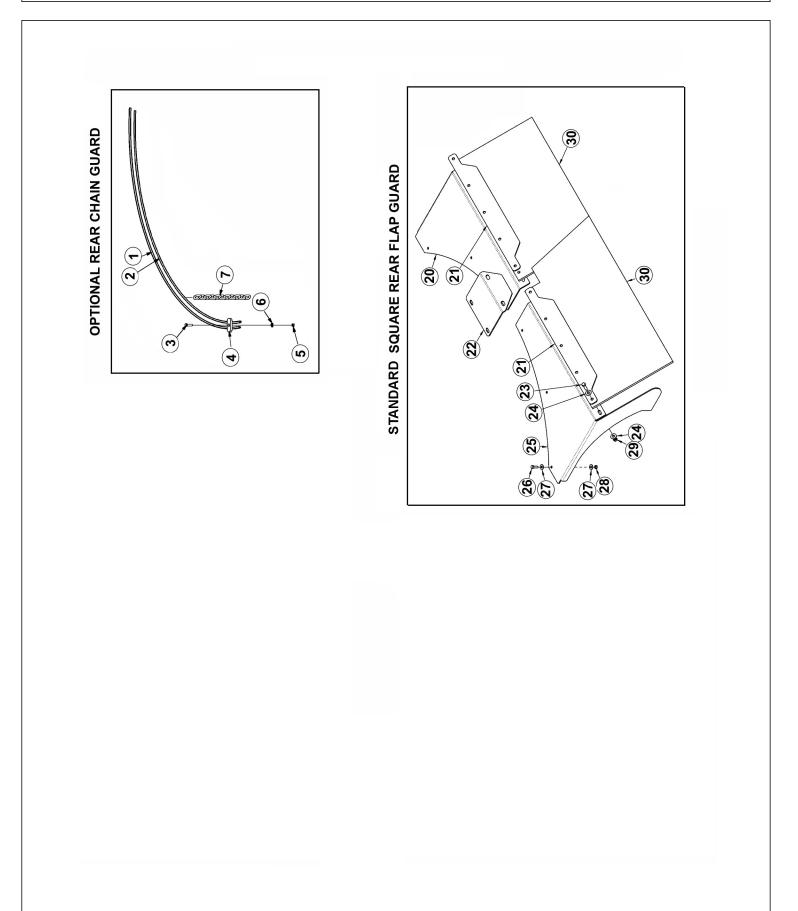
ITEM	PART NO.	QTY.	DESCRIPTION
	31773	-	GUARD, CHAIN, TM60, FRONT, ASSY
1	31762	1	GUARD, CHAIN, TM60, FRONT
2	28407	12	CABLE,5/16",BULK (QTY IN FEET)
3	22993	77	CHAIN,5/16",GR30,9 LINK
4	28408	4	U-BOLT,CABLE,5/16" (NOT SHOWN)
	31774	-	GUARD, CHAIN, TM60, REAR, ASSY
5	31763	1	GUARD, CHAIN, TM60, REAR
6	31879	1	ROD,SHORT,TM60
7	31878	1	ROD,LONG,TM60
8	22016	2	FLATWASHER,3/8",GR8
9	6T3028	2	COTTER PIN,1/8" X 1"
10	22992	69	CHAIN,5/16",GR30,10 LINK

72IN SIDE TM CHAIN GUARDS



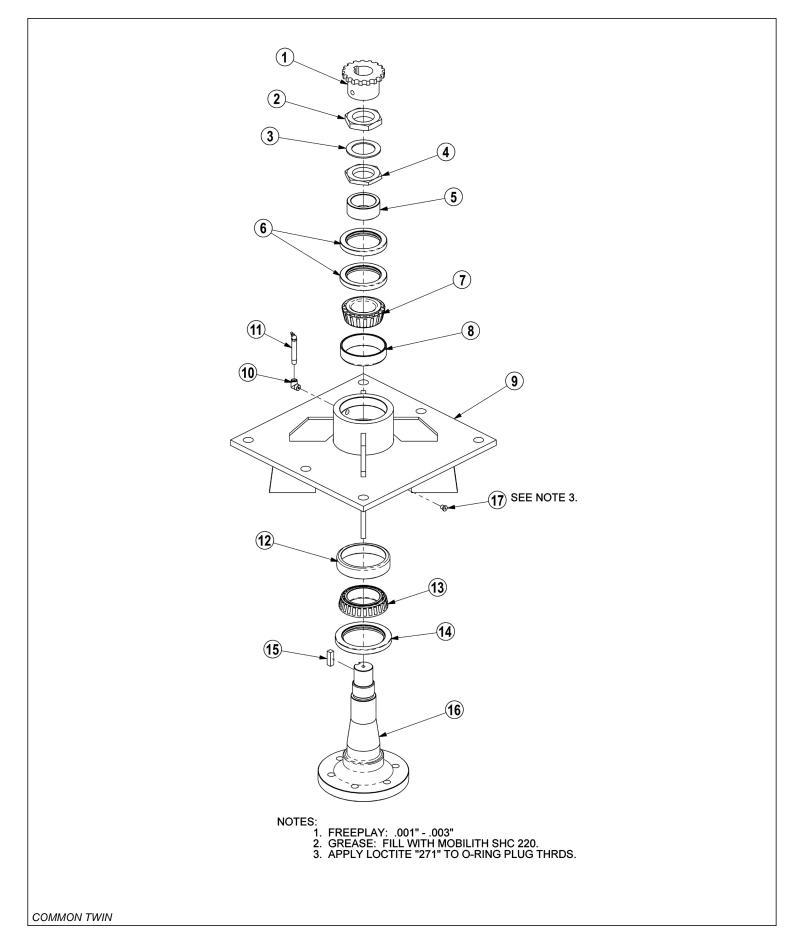
ITEM	PART NO.	QTY.	DESCRIPTION
	31931	-	GUARD, CHAIN, TM72, FRONT, ASSY
1	31863	1	GUARD, CHAIN, TM72, FRONT
2	28407	14	CABLE,5/16",BULK (QTY IN FEET)
3	22993	91	CHAIN,5/16",GR30,9 LINK
4	28408	4	U-BOLT,CABLE,5/16" (NOT SHOWN)
	31932	-	GUARD, CHAIN, TM60, REAR, ASSY
5	31864	1	GUARD, CHAIN, TM60, REAR
6	31934	1	ROD,LONG,TM72
7	31933	1	ROD,SHORT,TM72
8	22016	2	FLATWASHER,3/8",GR8
9	6T3028	2	COTTER PIN,1/8" X 1"
10	22992	83	CHAIN,5/16",GR30,10 LINK

60IN TSR REAR GUARDS



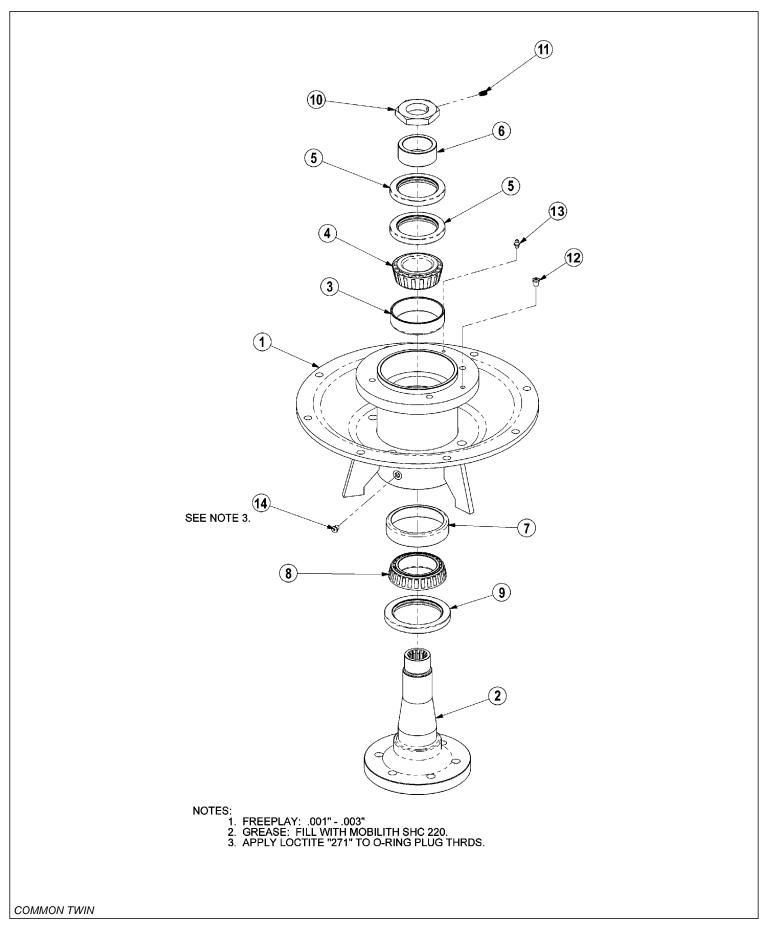
ITEM	PART NO.	QTY.	DESCRIPTION
1	34973	2	ROD, CHAIN, OUTER, TM60
2	34974	2	ROD,CHAIN,INNER,TM60
3	21631	16	CAPSCREW, 3/8 X 1-1/4,NC
4	34972	4	PLATE,CAP,CHAIN
5	21625	30	HEX NUT,3/8",NC
6	21988	16	LOCKWASHER, 3/8"
7	22992	156	CHAIN,10 LINK
20	06410947	1	MNT,FLAP,RH,EXT,TSR
21	06401184	2	STRAP,FLAP,EXT,TSR
22	06410948	1	COVER,FLAP,EXT,TSR
23	21632	10	CAPSCREW,3/8" X 1-1/2" NC
24	22016	20	FLATWASHER,3/8",GR8
25	06410946	1	MNT,FLAP,LH,EXT,TSR
26	21580	6	CAPSCREW,5/16 X 1 NC
27	22015	12	FLATWASHER,5/16
28	21577	6	NYLOCK NUT, 5/16,NC
29	21625	10	HEX NUT,3/8",NC
30	06520331	2	FLAP,EXT,TSR

TM MOWER SPINDLE ASSEMBLY



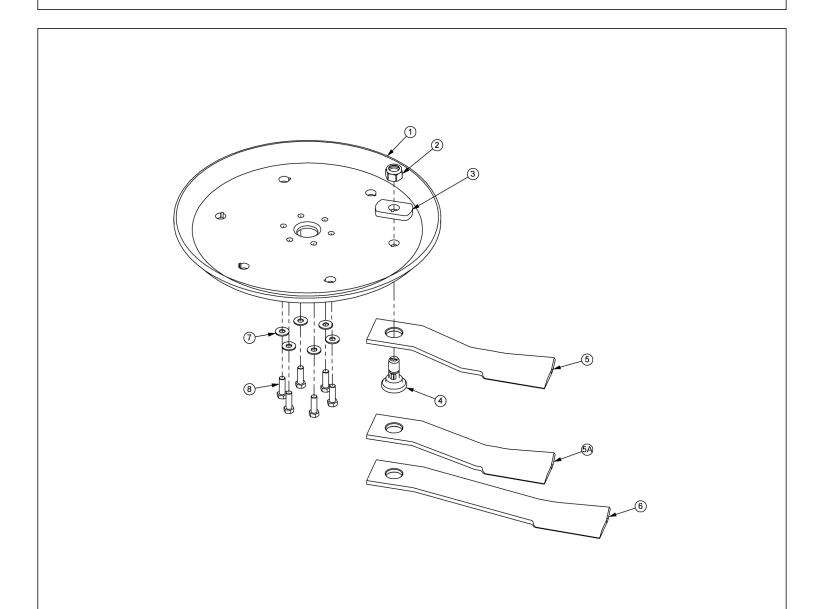
ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP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

TSR MOWER SPINDLE ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
	34980	-	SPINDLE ASSEMBLY COMPLETE
1	34978	1	SPINDLE MOUNT
2	34979	1	SPINDLE,TM60
3	6T1013	1	BEARING CUP
4	6T1012	1	BEARING CONE
5	6T1011	1	UPPER SEAL - SET OF 2
6	6T1014	1	BEARING ADJUSTMENT SLEEVE
7	6T1013H	1	BEARING,CUP,HD
8	6T1012H	1	BEARING CONE,HD
9	6T1011H	1	SEAL,LOWER,HD
10	34985	1	NUT W/SETSCREW
11	6T2275	1	SETSCREW,5/16" X 1/2",NC
12	34988	1	RELIEF,1PSI,1/8" NPT
13	6T3207	1	ZERK,1/4" X STR
14	06503064	1	O-RING PLUG, 1/8"

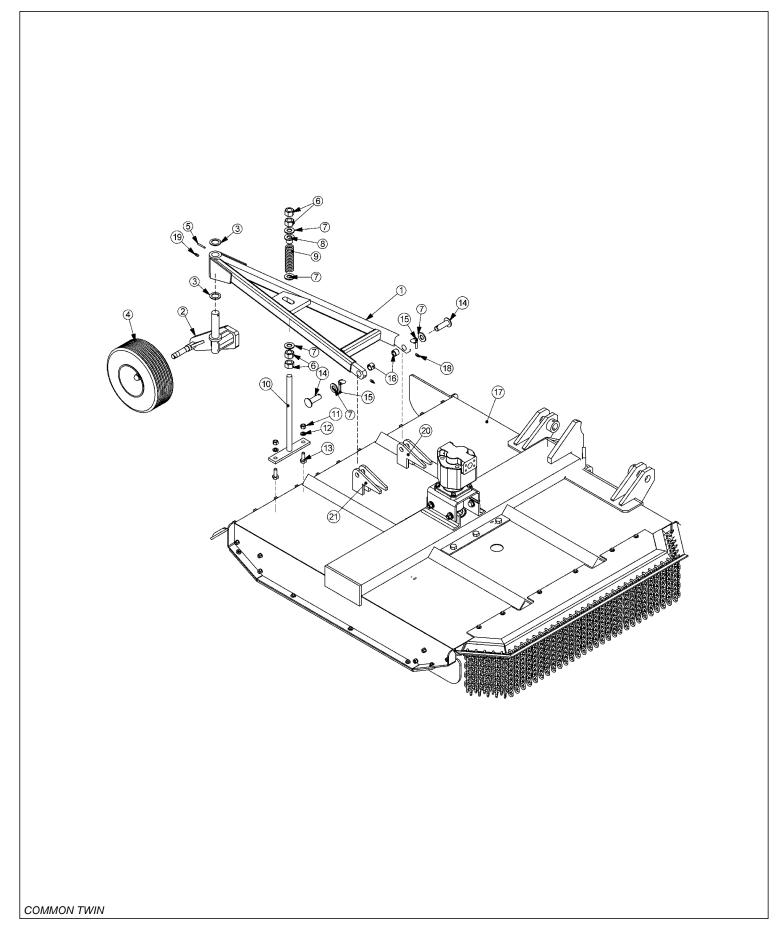
ROTARY DISK AND KNIVES



ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK NUT,1-1/8"
3	34878	2	SPACER
4	34497	2	KNIFE MOUNTING BOLT
5	34685	2	KNIFE,60" HIGH SUCTION - STANDARD
5A	34684	2	KNIFE,60" - OPTIONAL
6	34682	2	KNIFE 72" (MOUNT ON 72" MOWER ONLY)
7	25270	6	FLATWASHER,5/8",USS,GR8
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF
	6T1825	-	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
	27167	-	BOLT KIT (INCLUDE ITEMS 7 & 8)
	06700002	-	KIT,60/72,DISK,KNF MTG (INCLUDE ITEM 1, 3,7 & 8)

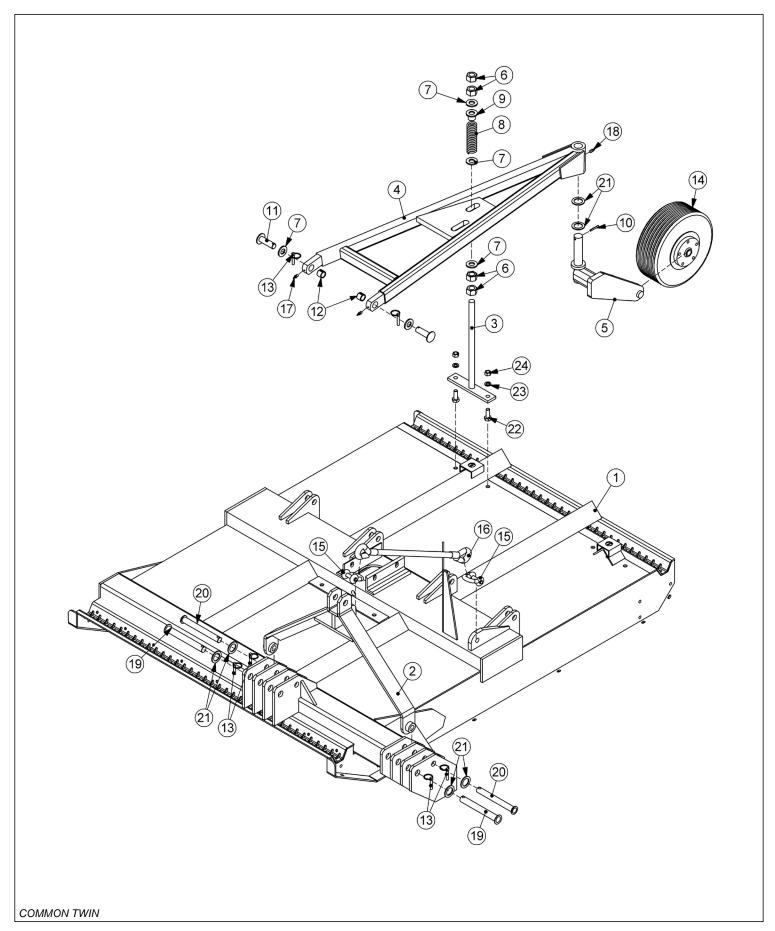
NOTES

SIDE ROTARY CASTER WHEEL ASSEMBLY



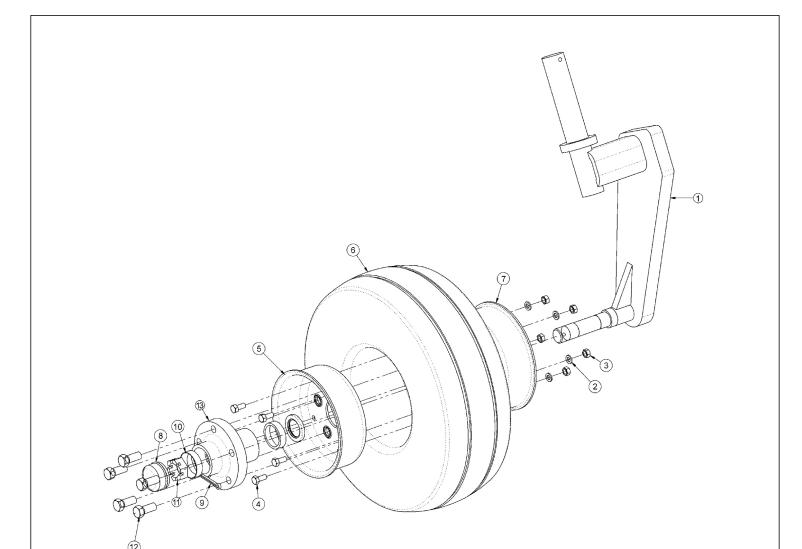
ITEM	PART NO.	QTY.	DESCRIPTION
1	25214C	1	FRAME,CASTER,WHL (TM60)
	28297A	-	FRAME, CASTER WHL (TM72)
2	22057	1	SPINDLE,CASTER AXLE,ASSY
3	6T2617	2	BUSHING, MACH, 1-1/2IDX 2-1/4OD
4	28548	1	CASTER WHEEL, SOLID TIRE
	22065	1	HUB,ASSY,CASTER
	22066	1	HUB,CASTER
	22070	1	DUST CAP
	22071	5	HUB STUD
	22073	1	HEX NUT,1",NF (SLOTTED)
	22533	1	COTTER PIN,3/16" X 2"
	6T0830	2	BEARING,CONE,CASTER WHEEL
	6T0838	1	SEAL
	23329	1	WHEEL, CPLT, SOLID TIRE
	21416	1	TIRE,SOLID
	22697	1	RIM,OUTER
	22696	1	RIM,CASTER
5	6T3014	1	ROLL PIN,1/4" X 2"
6	21925	4	HEX NUT,1",NC
7	22023	5	FLATWASHER,1"
8	22753	1	TUBE, PROTECTOR
9	22058	1	SPRING,REAR RTRY
10	22059B	1	ADJ ROD,TRR
11	21775	2	HEX NUT,5/8"
12	21992	2	LOCKWASHER,5/8"
13	21782	2	CAPSCREW,5/8" X 1-3/4",NC
14	22060	2	CASTER FRAME PIN
15	TF1143	2	PIN,LYNCH,7/16" X 2"
16	TB3010	2	BUSHING,1"
17		1	RTRY,CPLT,TM
18	6T3207	2	GREASE ZERK,1/4" X STR
19	6T3211	1	GREASE ZERK,1/8" X STR
20	21441	2	CASTER FRAME ANCHOR (TM60)
	42527	2	CASTER FRAME ANCHOR (TM72)
21	21442	2	CASTER FRAME ANCHOR (TM60)
	42527	2	CASTER FRAME ANCHOR (TM72)

60IN TM REAR CASTER WHEEL & 3PT ASSY

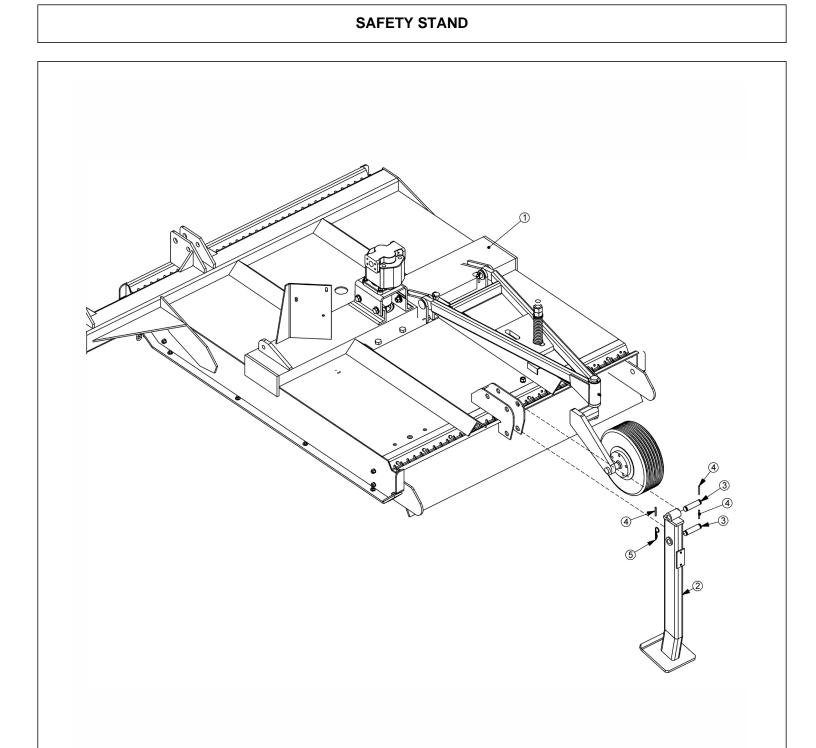


ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MOWER,REAR,60IN,TM
2	21474A	1	HITCH, 3PT, TRR
3	22059B	1	ADJ ROD, TRR
4	25095A	1	FRAME, CASTER WHEEL, TRR 60"
5	22057	1	SPINDLE, CASTER AXLE, ASSY
6	21925	4	HEX NUT,1" NC
7	22023	5	FLATWASHER,1"
8	22058	1	SPRING, REAR RTRY
9	22753	1	TUBE, PROTECTOR
10	6T3014	1	ROLL PIN, 1/4" X 2"
11	22060	2	CASTER FRAME PIN
12	TB3010	2	BUSHING,1"
13	TF1143	6	PIN, LYNCH, 7/16" X 2"
14	28548	1	CASTER WHEEL, SOLID TIRE
15	6T0112	2	SHACKLE, W/PIN, CPLT
16	22051	1	CABLE, LIFT, TRR, 60"
17	6T3207	2	GREASE ZERK,1/4" X STR
18	6T3211	1	GREASE ZERK,1/8" X STR
19	33698	2	PIN, CAPPED, 1-1/8" X 9"
20	33699	2	PIN, CAPPED, 1" X 9"
21	6T2617	6	BUSHING, MACH, 1-1/2IDX 2-1/4OD
22	21782	2	CAPSCREW, 5/8 X 1 3/4,NC
23	21992	2	LOCKWASHER, 5/8
24	21775	2	HEX NUT, 5/8

CASTER WHEEL ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	22057	1	SPINDLE,CASTER AXLE,ASSY
2	21987	5	LOCKWASHER,5/16"
3	21575	5	HEX NUT,5/16"
4	28548	5	CAPSCREW,5/16" X 3/4",NC
5	22697	1	RIM,OUTER,CASTER ASSY
6	21416	1	TIRE,SOLID
7	22696	1	RIM,CASTER WHEEL
8	22070	1	DUST CAP
9	22533	1	COTTER PIN,3/16" X 2"
10	6T0836	2	CUP,CASTER WHEEL
11	22073	1	HEX NUT,1",NF (SLOTTED JAM NUT)
12	22071	5	HUB STUD
13	22066	1	HUB,CASTER WHEEL

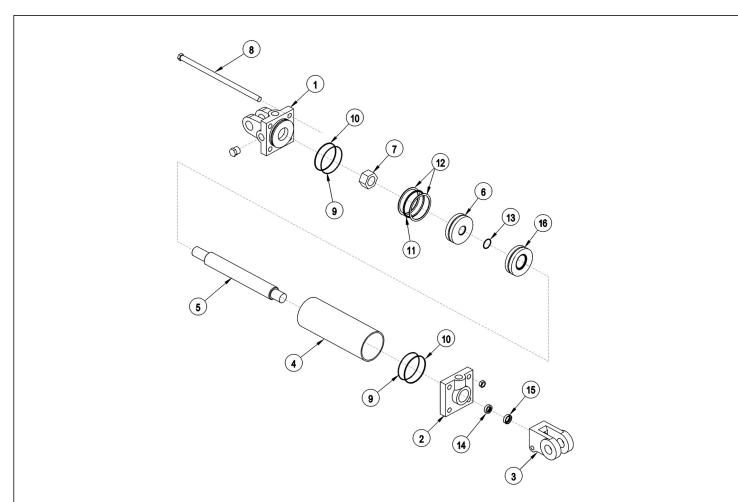


ITEM	PART NO	QTY.
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DESCRIPTION

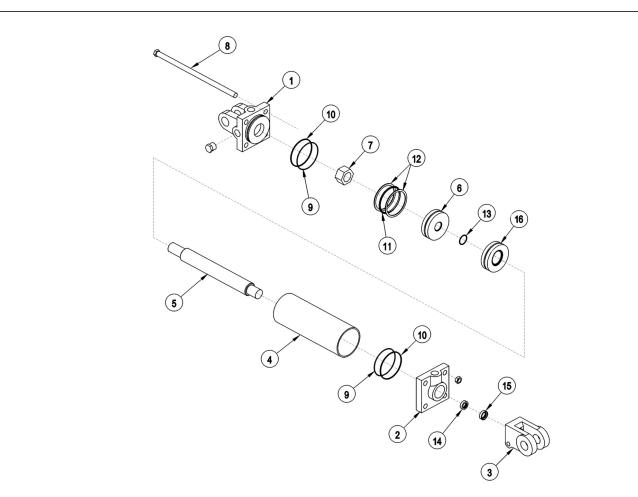
1		-	REAR RTRY - REFER TO REAR RTRY DECK ASSY
2	28511	1	REAR RTRY STAND
3	06520425	2	PIN
4	6T3014	3	ROLL PIN, 1/4" X 2"
5	6T3004	1	R-CLIP (HAIRPIN COTTER, 3/16")

3IN X 10IN HYDRAULIC CYLINDER BREAKDOWN



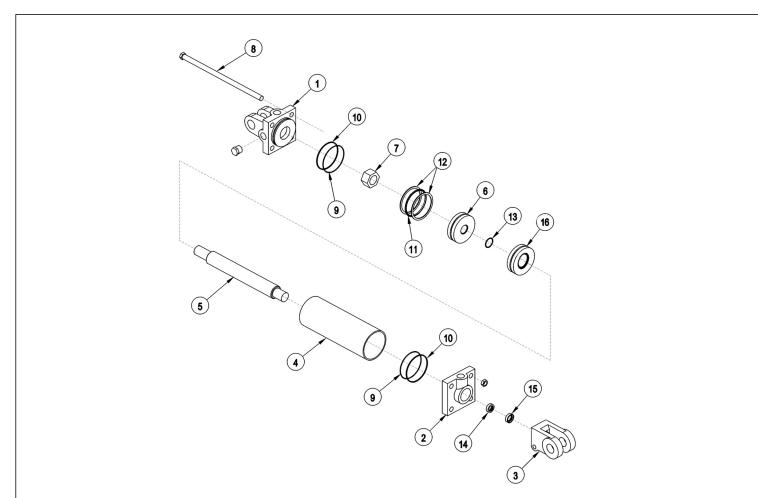
ITEM	PART NO.	QTY.	DESCRIPTION
	6T0151R	-	HYD. CYLINDER 3" X 10"
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0164	1	CYLINDER TUBE
5	6T0161	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0176	4	TIE ROD ASY
	6T0187	-	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER

3IN X 12IN HYDRAULIC CYLINDER BREAKDOWN



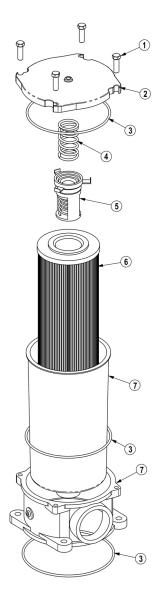
ITEM	PART NO.	QTY.	DESCRIPTION
	32215	-	HYD. CYLINDER 3" X 12" (STD DUTY)
	25343	-	HYD. CYLINDER 3" X 12" (HVY DUTY)
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0204	1	CYLINDER TUBE
5	6T0203	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0205	4	TIE ROD ASY
	6T0187	-	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

3IN X 18IN HYDRAULIC CYLINDER BREAKDOWN



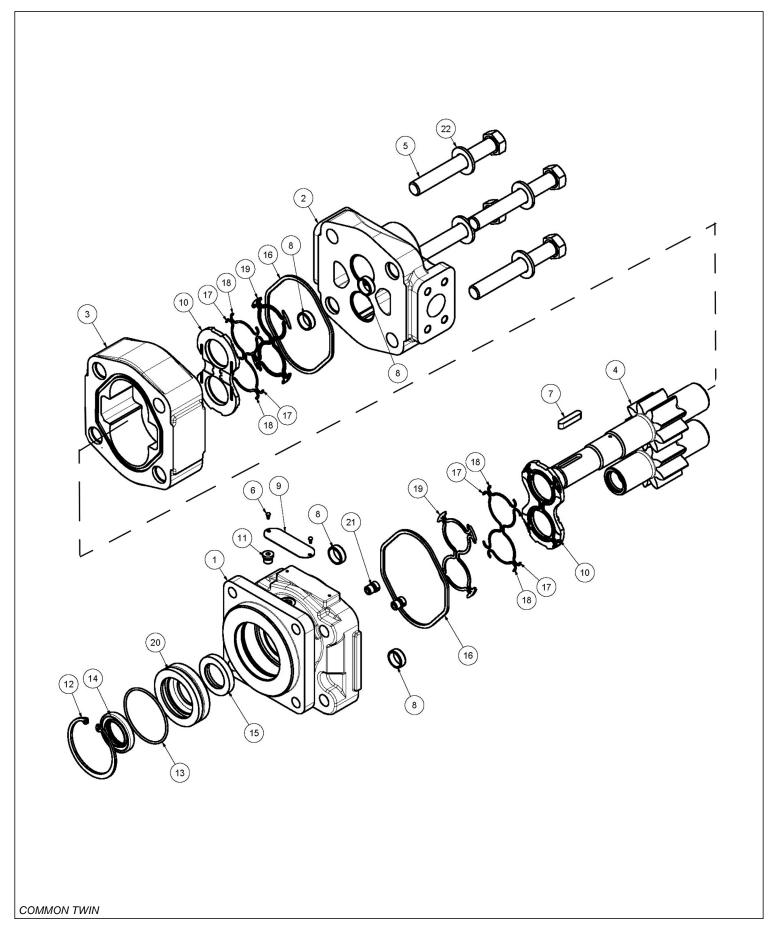
ITEM	PART NO.	QTY.	DESCRIPTION
	6T0150	-	CYLINDER 3" X 18"
1	6T0167	1	CYLINDER BUTT
2	6T0170	1	CYLINDER GLAND
3	6T0178	1	CLEVIS END
4	6T0165	1	CYLINDER TUBE
5	6T0162	1	PISTON ROD
6	6T0173	1	PISTON
7	6T0179	1	LOCKNUT
8	6T0177	4	TIE ROD ASY
	6T0187	-	SEAL KIT
9		2	O - RING
10		2	BACK - UP WASHER
11		1	O - RING
12		2	BACK - UP WASHER
13		1	O - RING
14		1	U - CUP
15		1	WIPER
16	6T0206	1	SPACER

RESERVOIR TANK FILTER ASSEMBLY



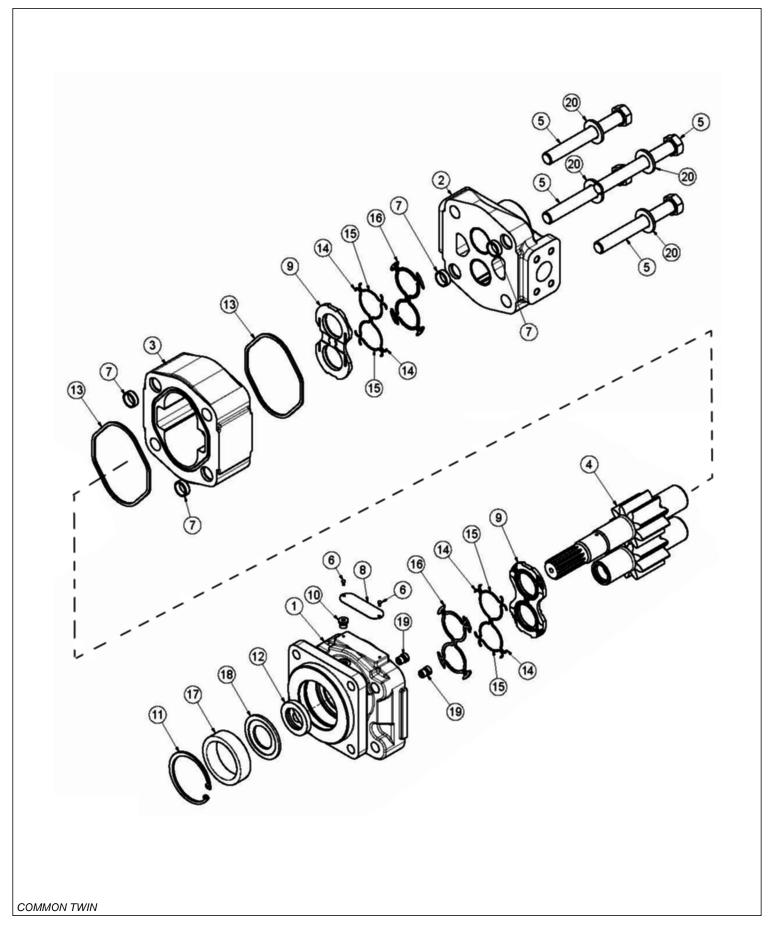
ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	-	FILTER ASSY SAE 10 MICRON
1	28583	4	CAPSCREW,8MM X 25MM(1.25 PITCH)
2	06505045	1	COVER
3	06505046	1	SEAL KIT
4	06505047	1	SPRING
5	06505048	1	BYPASS
6	35259	1	FILTER,10 MIC,RETURN LINE
7	06505049	1	CAN/BODY

ROTARY MOTOR BREAKDOWN



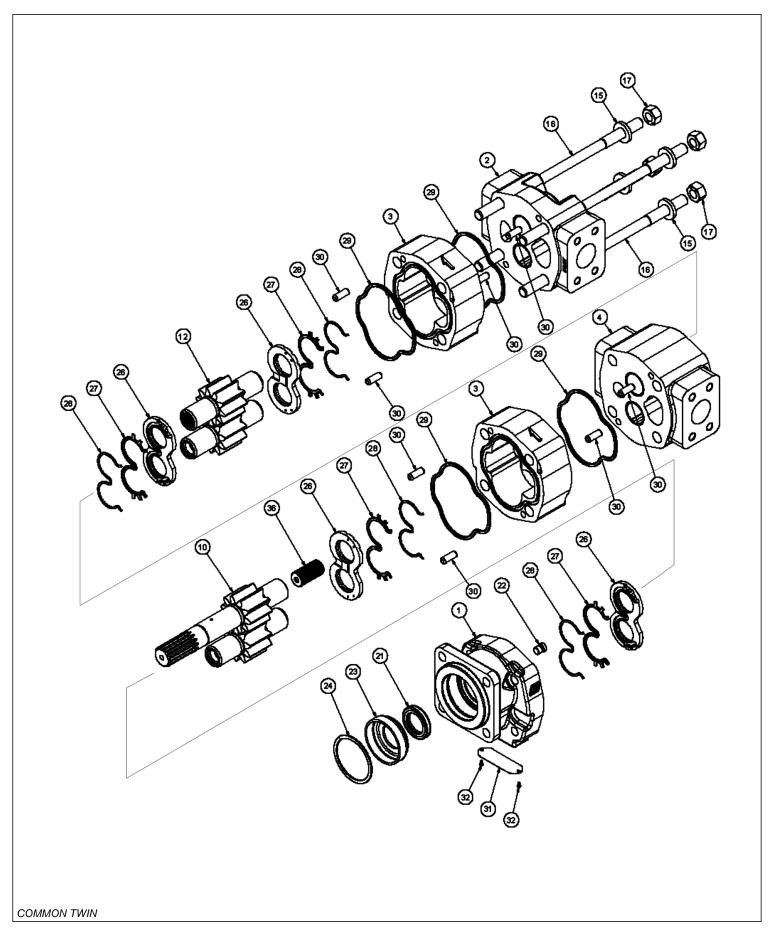
ITEM	PART NO.	οτγ	DESCRIPTION
	06504011	Q (11)	MOTOR ASSEMBLY
1	22790	1	END,COVER
-		-	
2	06504088	1	HOUSING, PEC
3	06504111	1	HOUSING, GEAR
4	06504026	1	SET, GEAR SHAFT
5	06504104	4	CAPSCREW
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	2961940	1	PLUG, ODT
12	2962200	1	RING, SNAP
13	06504096	1	O RING
14	6T5101	1	SEAL, LIP
15	06504097	1	SEAL, LIP
16	22797	2	SEAL, SQ-R
17	06504098	4	SEAL, SIDE CHAN
18	06504099	4	SEAL, END CHAN
19	06504100	2	SEAL, BK-UP
20	06504101	1	RTNR, SEAL
21	6T5809	2	CHECK ASS'Y
22	06504102	4	WASHER
	06504103	-	SEAL KIT

60IN TSR ROTARY MOTOR BREAKDOWN

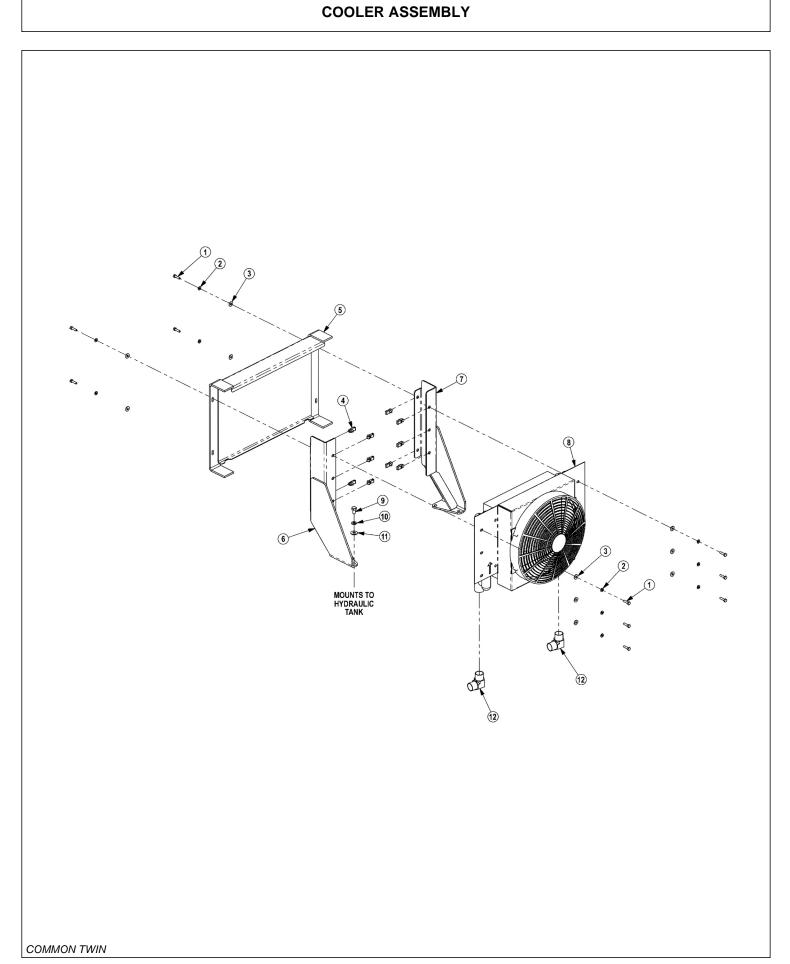


ITEM	PART NO.	QTY.	DESCRIPTION
	06504016	-	MOTOR(M365-1 1/4SPLINE),SEALED
1	22790	1	COVER,END
2	06504088	1	HOUSING,PEC
3	06504111	1	HOUSING,GEAR
4	06504110	1	SET,GEAR SHAFT
5	06504104	4	CAP SCREW
6	06504078	2	SCREW, DRIVE
7	06504093	4	PIN,DOWEL
8	06504094	1	NAME PLATE
9	06504095	2	THRPL
10	02961940	1	PLUG,ODT (0.25)
11	6T5200	1	RING,SNAP
12	06504097	1	SEAL,LIP
13	22797	2	SEAL,SQ-R
14	06504098	4	SEAL,SIDE CHAN
15	06504099	4	SEAL,END CHAN
16	06504100	2	SEAL,BK-UP
17	06504112	1	SPACER
18	06504113	1	RTNR,SEAL
19	6T5809	2	CHECK ASS'Y
20	06504102	4	WASHER
	06504022	1	SEAL KIT

FRONT HYDRAULIC PUMP BREAKDOWN

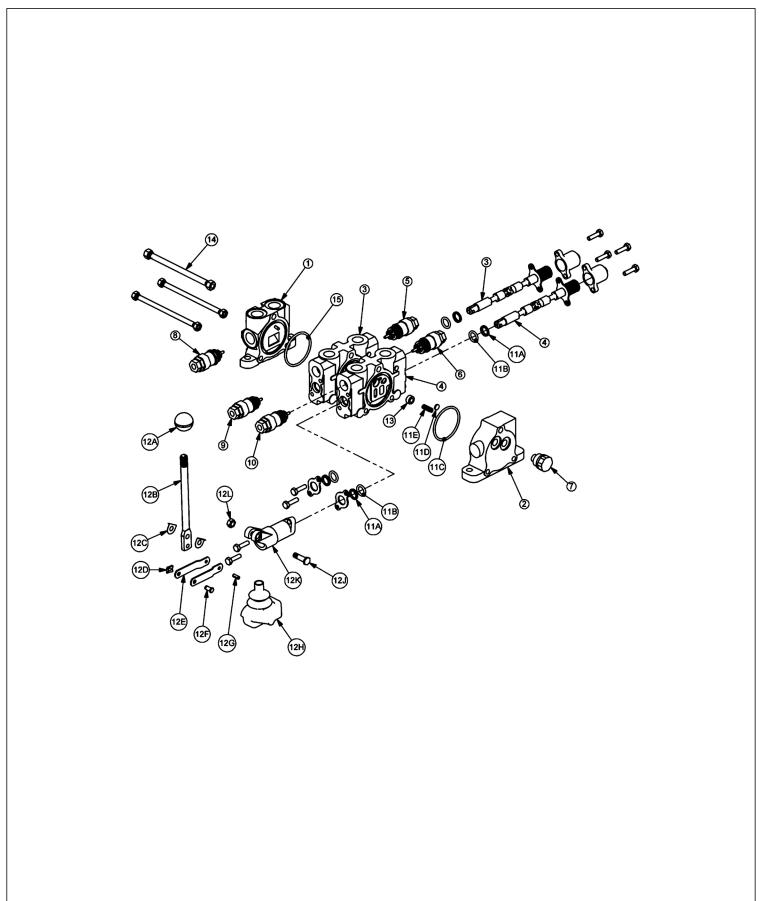


ITEM	PART NO.	QTY.	DESCRIPTION
	06504002	1	PUMP,ASSY
1	22766	1	HOUSING,SEC
2	06504068	1	HOUSING,PEC
3	02965092	2	HOUSING,GEAR
4	06504069	1	HOUSING, BEARING CARRIER
10	06504070	1	SET,GEARSHAFT
12	06504071	1	GEAR,SET
15	02961917	4	WASHER
16	06504072	4	STUD
17	06504073	4	NUT,HEX
21	22765	1	SEAL,LIP
22	6T5121	1	PLUG
23	02979970	1	SPACER
24	02979971	1	RING,SNAP
26	02965611	4	THRPL
27	06504074	4	SEAL,CHAN
28	06504075	4	SEAL,BK-UP
29	06504076	4	SEAL,SQ-R
30	02961924	8	PIN,DOWEL
31	06504077	1	NAMEPLATE
32	06504078	2	SCREW, DRIVE
36	06504079	1	SFT,CONN
	22764	1	SEAL KIT (ITEMS 21, 27, 28 & 29)



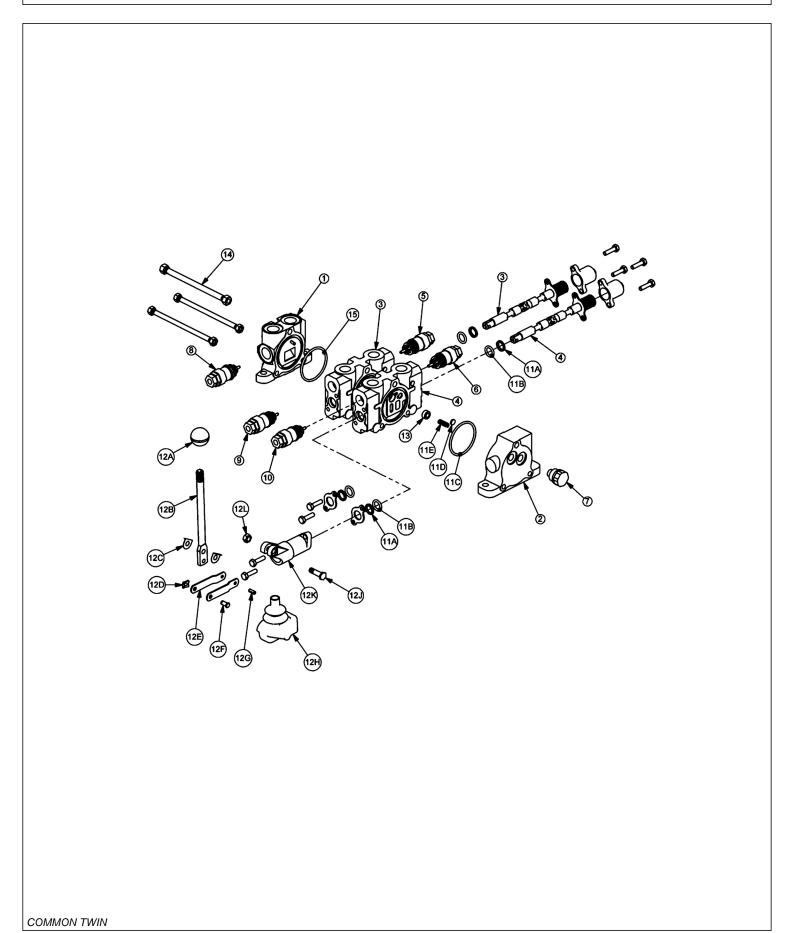
ITEM	PART NO.	QTY.	DESCRIPTION
1	21530	10	CAPSCREW,1/4 X1 NC
2	21986	10	LOCKWASHER,1/4
3	22014	10	FLATWASHER,1/4
4	35176	10	1/4 U-NUT
5	06370015	1	SCREEN,COOLER,FRNT
6	06380006	1	MNT,COOLER,BUMPER TANK,RH
7	06380007	1	MNT,COOLER,BUMPER TANK,LH
8	06510026	1	COOLER, FRONT MNT
	06510029	1	FAN ASSY ONLY
9	21629	4	CAPSCREW,3/8 X 3/4 NC
10	21988	4	LOCKWASHER,3/8
11	22016	4	FLATWASHER,3/8
12	34117	2	ELBOW,1MOR X 1MJ90,FORGED

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31320



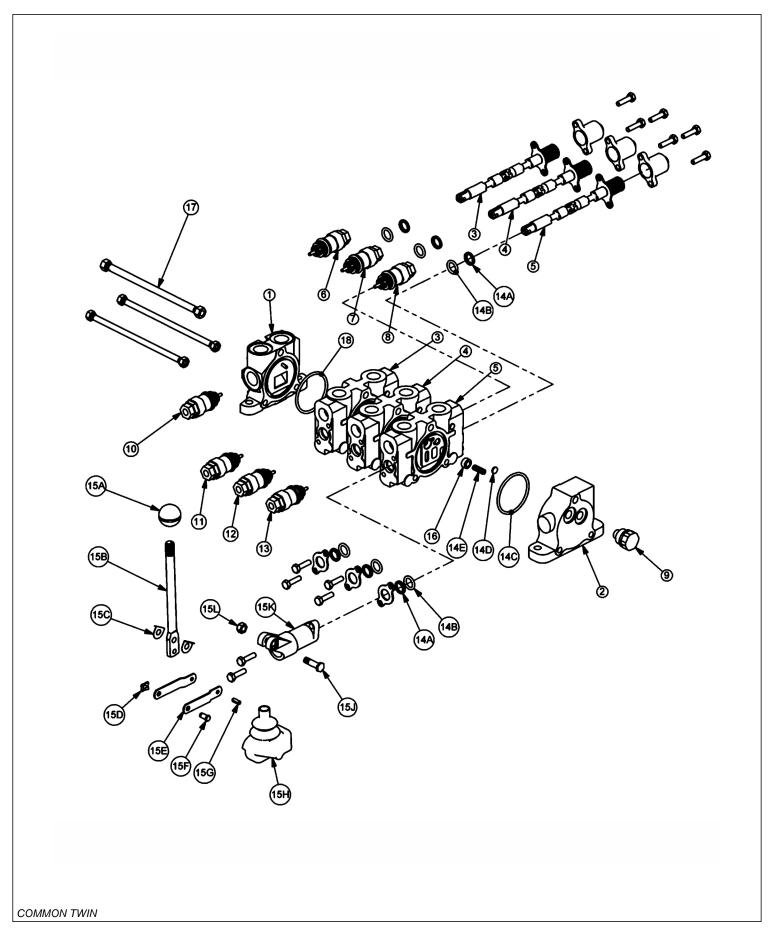
	ITEM	PART NO.	QTY.	DESCRIPTION
	1	31595	1	INLET END COVER
	2	31594	1	END COVER, LOAD SENSE
	3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
	4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
	5	06503067	1	RELIEF PLUG
	6	06503067	1	RELIEF PLUG
	7	N/A	-	N/A
	8	6T4209	1	RELIEF PLUG
	9	31862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

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 31321



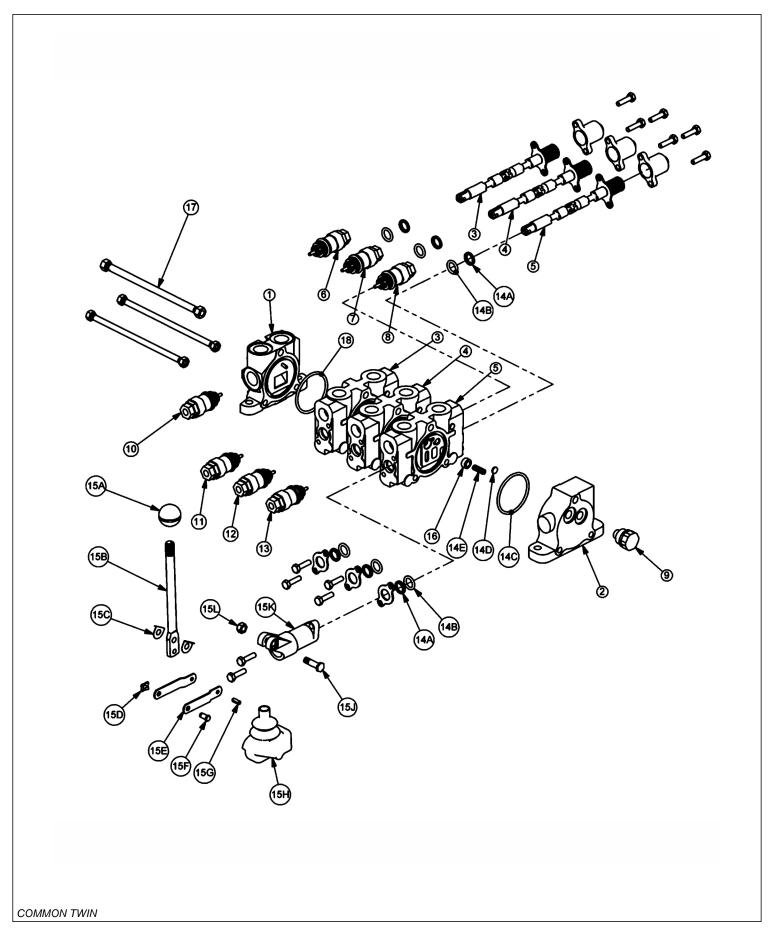
	ITEM	PART NO.	QTY.	DESCRIPTION
	1	31595	1	INLET END COVER
	2	31594	1	END COVER, LOAD SENSE
	3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
	4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
	5	06503067	1	RELIEF PLUG
	6	31861	1	RELIEF VALVE, 360 PSI
	7	N/A	-	N/A
	8	6T4209	1	RELIEF PLUG
	9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

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502043



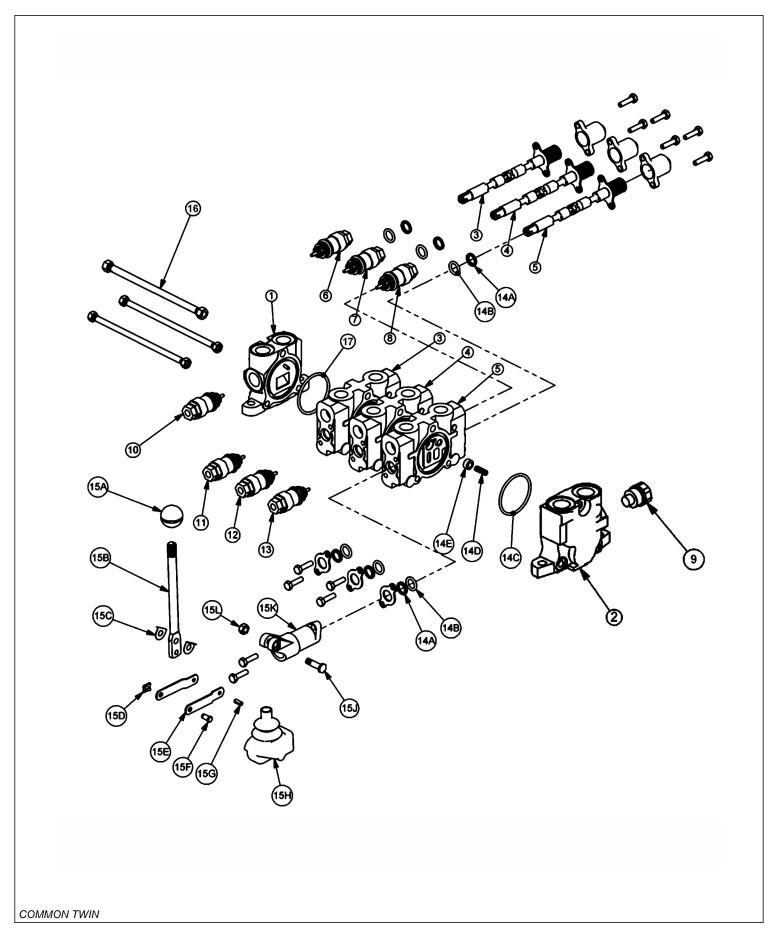
ITEM	PART NO.	QTY.	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)
6	06503067	1	RELIEF PLUG
7	06503067	1	RELIEF PLUG
8	28816	1	RELIEF VALVE, 1812 PSI
9	06503068	1	RELIEF PLUG
10	6T4209	1	RELIEF PLUG
11	31862	1	RELIEF VALVE, 2175 PSI
12	31862	1	RELIEF VALVE, 2175 PSI
13	28816	1	RELIEF VALVE, 1812 PSI
14	31593	3	VALVE SEAL KIT (FOR ONE SECTION)
14A		2	WIPER
14B		2	O-RING SMALL
14C		1	O-RING LARGE
14D		1	SHUTTLE DISC
14E		1	SPRING
15	TB1017L	3	LEVER KIT (FOR ONE SECTION)
15A		1	LEVER KNOB
15B		1	LEVER
15C		2	LEVER WASHER
15D		1	LEVER CLIP
15E		2	LINKAGE
15F		1	LEVER PIN
15G		1	ROLL PIN
15H		1	LEVER BOOT
15J		1	LEVER BOLT
15K		1	LEVER DUST COVER
15L		1	LEVER NUT
16	31603	3	COMPENSATOR
17	23397	1	TIE ROD KIT
18	24214	1	O-RING, LARGE

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502044



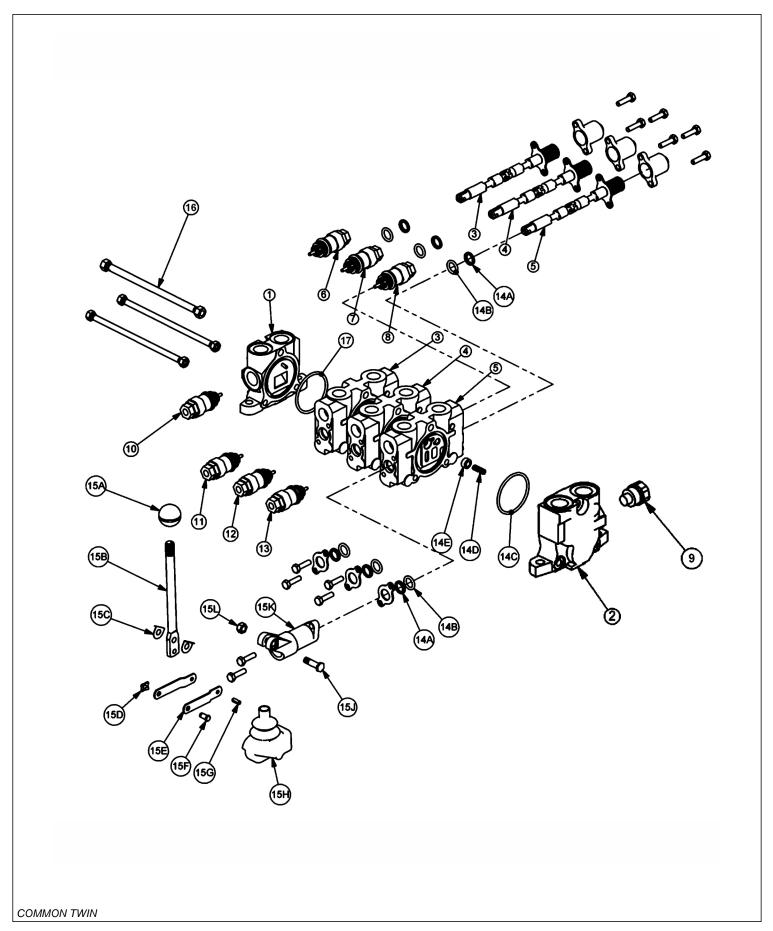
ITEM	PART NO.	QTY.	DESCRIPTION
1	31595	1	INLET END COVER
2	31594	1	END COVER, LOAD SENSE
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)
6	06503067	1	RELIEF PLUG
7	31861	1	RELIEF VALVE, 360 PSI
8	28816	1	RELIEF VALVE, 1812 PSI
9	06503068	1	RELIEF PLUG
10	6T4209	1	RELIEF PLUG
11	31862	1	RELIEF VALVE, 2175 PSI
12	31862	1	RELIEF VALVE, 2175 PSI
13	28816	1	RELIEF VALVE, 1812 PSI
14	31593	3	VALVE SEAL KIT (FOR ONE SECTION)
14A		2	WIPER
14B		2	O-RING SMALL
14C		1	O-RING LARGE
14D		1	SHUTTLE DISC
14E		1	SPRING
15	TB1017L	3	LEVER KIT (FOR ONE SECTION)
15A		1	LEVER KNOB
15B		1	LEVER
15C		2	LEVER WASHER
15D		1	LEVER CLIP
15E		2	LINKAGE
15F		1	LEVER PIN
15G		1	ROLL PIN
15H		1	LEVER BOOT
15J		1	LEVER BOLT
15K		1	LEVER DUST COVER
15L		1	LEVER NUT
16	31603	3	COMPENSATOR
17	23397	1	TIE ROD KIT
18	24214	1	O-RING, LARGE

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502087

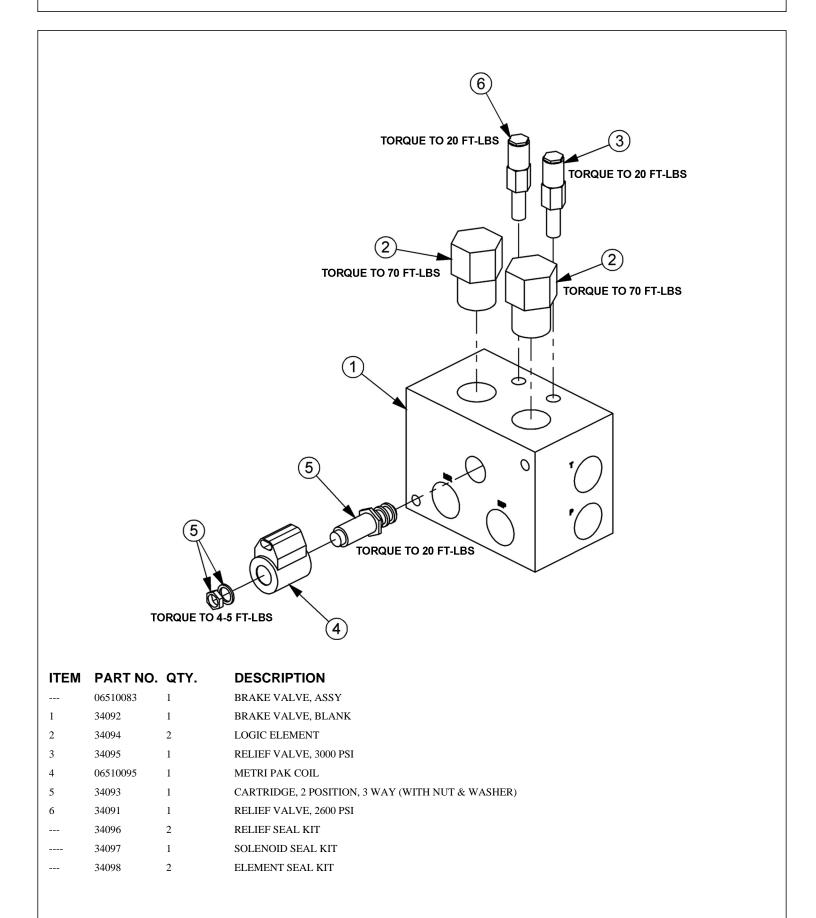


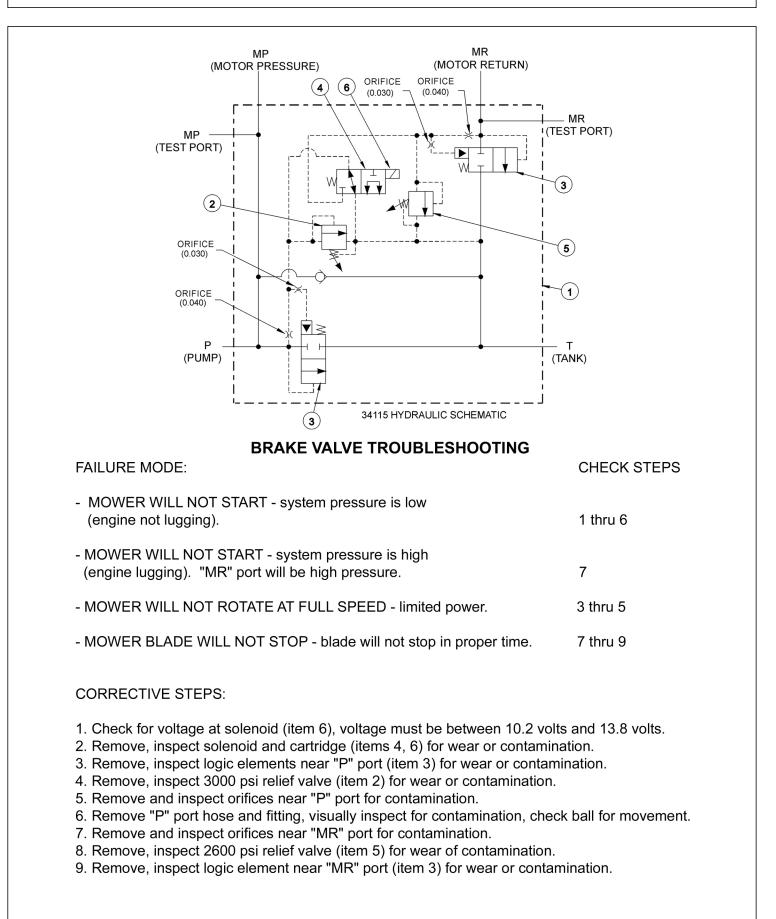
ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
5	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6		-	N/A
7		-	N/A
8	28816	1	RELIEF VALVE, 1812 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	06502085	1	RELIEF VALVE, 3000 PSI
11	31862	1	RELIEF VALVE, 2175 PSI
12	31862	1	RELIEF VALVE, 2175 PSI
13	28816	1	RELIEF VALVE, 1812 PSI
14	TB1017A	4	VALVE SEAL KIT (FOR ONE SECTION)
14A		2	WIPER
14B		2	O-RING SMALL
14C		1	O-RING LARGE
14D		1	SPRING
14E		1	PUCKET
15	TB1017L	4	LEVER KIT (FOR ONE SECTION)
15A		1	LEVER KNOB
15B		1	LEVER
15C		2	LEVER WASHER
15D		1	LEVER CLIP
15E		2	LINKAGE
15F		1	LEVER PIN
15G		1	ROLL PIN
15H		1	LEVER BOOT
15J		1	LEVER BOLT
15K		1	LEVER DUST COVER
15L		1	LEVER NUT
16	23397	1	TIE ROD KIT
17	24214	1	O-RING, LARGE

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502088

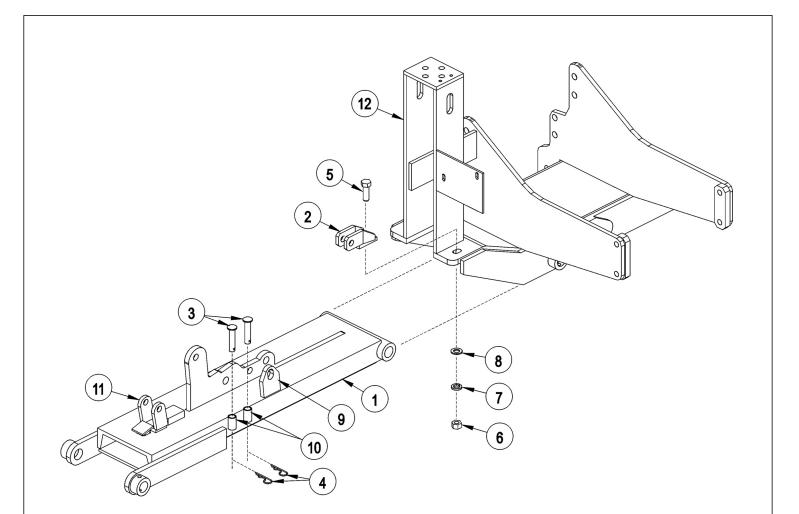


ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1017S	1	INLET END COVER
2	TB1702	1	END COVER, POWER BEYOND
3	TB1017P	1	VALVE SECTION (SINGLE ACTING, SPRING DETENT)
4	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
5	TB1017N	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)
6		-	N/A
7	31861	1	RELIEF VALVE, 360 PSI
8	28816	1	RELIEF VALVE, 1812 PSI
9	TB1017M	1	SHUT-OFF PLUG
10	06502085	1	RELIEF VALVE, 3000 PSI
11	31862	1	RELIEF VALVE, 2175 PSI
12	31862	1	RELIEF VALVE, 2175 PSI
13	28816	1	RELIEF VALVE, 1812 PSI
14	TB1017A	4	VALVE SEAL KIT (FOR ONE SECTION)
14A		2	WIPER
14B		2	O-RING SMALL
14C		1	O-RING LARGE
14D		1	SPRING
14E		1	PUCKET
15	TB1017L	4	LEVER KIT (FOR ONE SECTION)
15A		1	LEVER KNOB
15B		1	LEVER
15C		2	LEVER WASHER
15D		1	LEVER CLIP
15E		2	LINKAGE
15F		1	LEVER PIN
15G		1	ROLL PIN
15H		1	LEVER BOOT
15J		1	LEVER BOLT
15K		1	LEVER DUST COVER
15L		1	LEVER NUT
16	23397	1	TIE ROD KIT
17	24214	1	O-RING, LARGE



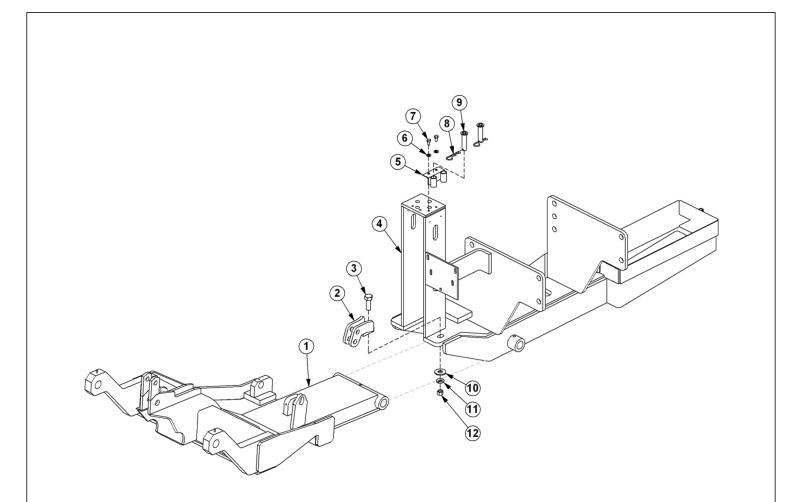


CABLE DRAFT BEAM TRAVEL LOCK



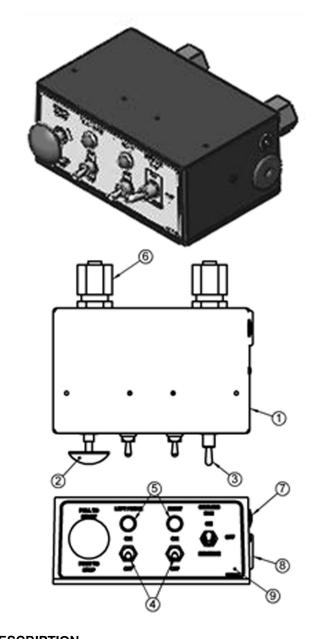
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	CABLE DRAFT BEAM
2	6T0106	1	TRAVEL LOCK BRACKET
3	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
4	6T3020	2	R - CLIP 5/32"
5	21833	1	CAPSCREW 3/4" X 2 1/4"
6	21825	1	HEX NUT 3/4"
7	21993	1	LOCK WASHER 3/4"
8	22021	1	FLAT WASHER 3/4"
9	22600	1	TRAVEL LOCK EAR
10	22604	2	PIN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

COMBO DRAFT BEAM TRAVEL LOCK



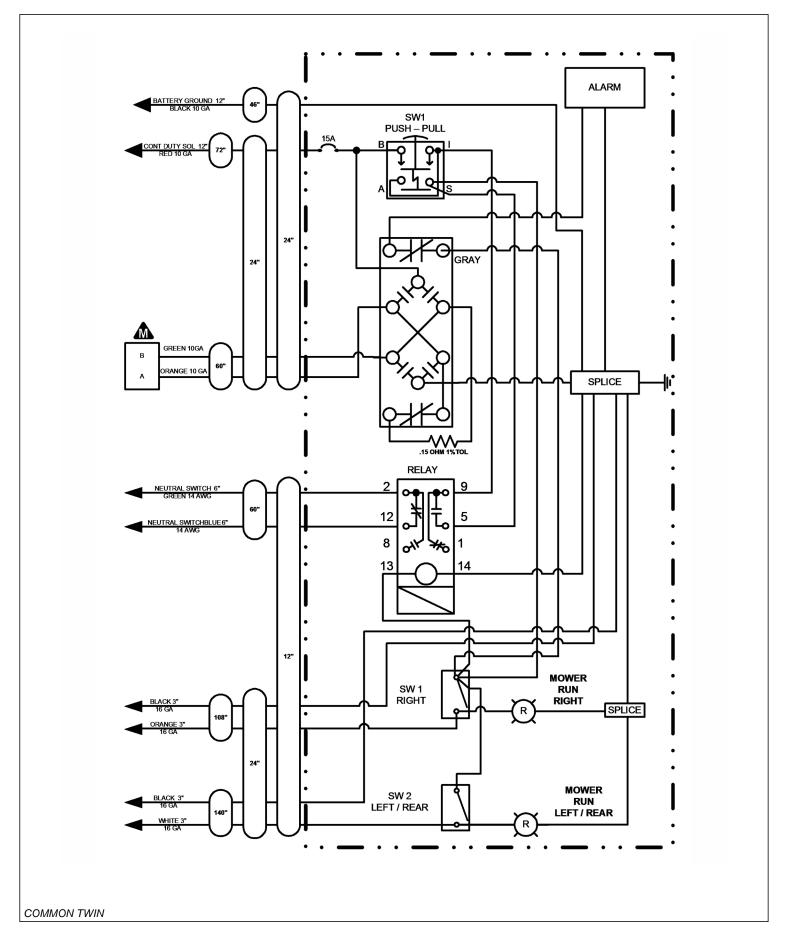
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	COMBO DRAFT BEAM
2	6T0106	1	TRAVEL LOCK BRACKET
3	21833	1	CAPSCREW 3/4" X 2 1/4"
4		-	MAIN FRAME *REFER TO PARTS SECTION
5	33856	1	BRKT,PIN HOLDER
6	21988	2	LOCK WASHER 3/8"
7	21629	2	CAPSCREW 3/8" X 3/4"
8	6T3020	2	R - CLIP 5/32"
9	6T0107	2	TRAVEL LOCK PINS 3/4" X 3 1/4"
10	22021	1	FLAT WASHER 3/4"
11	21993	1	LOCK WASHER 3/4"
12	21825	1	HEX NUT 3/4"

SWITCH BOX



	ITEM	PART NO.	QTY.	DESCRIPTION
	1	06514011	1	SWBX,ALUM,BLK,06510097
	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
1				

SWITCH BOX SCHEMATIC



NOTES 1

NOTES

WARRANTY SECTION

Warranty Section 7-1

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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.

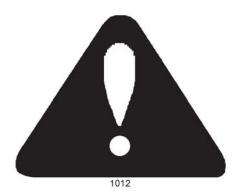
No agent or person has authority to alter, add to or waive the above warranties which are agreed to be in the only warranties, representations or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty of merchantability or 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!**



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

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

TO THE OWNER / OPERATOR / DEALER



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

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

OWNER REQUIREMENTS:

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

OPERATOR REQUIREMENTS:

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



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