

411 LBS  
MULTI PURPOSE  
LITHIUM GREASE

# Mahindra

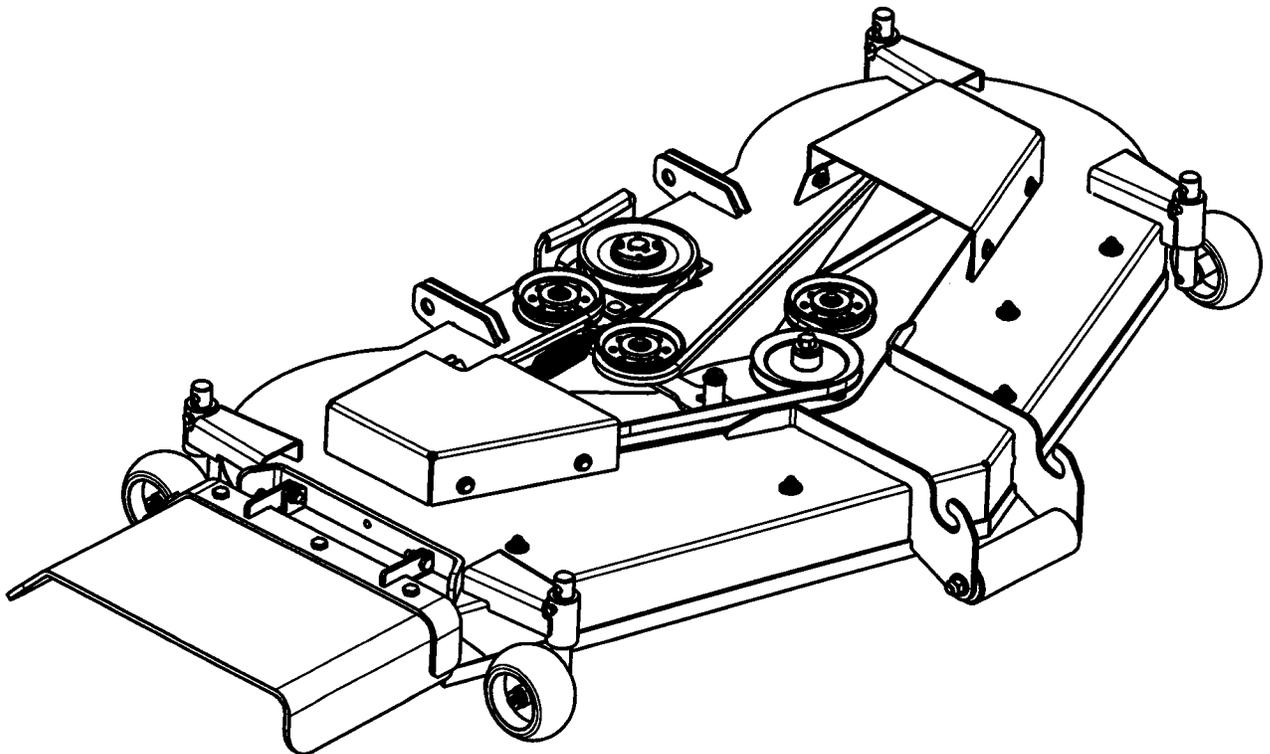
## MODEL MAX 24M 60" MOWER AND MOUNTING WITH DIAL HEIGHT-OF-CUT FEATURE FOR MAX 24 SERIES TRACTORS

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INCLUDES OPERATOR'S MANUAL,  
INSTALLATION INSTRUCTIONS AND PARTS CATALOG

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SERIAL NUMBER MAX24M-6001 AND LATER



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## WARRANTY CONDITIONS

### Warranty Coverage:

Mahindra, Ltd, Inc., herein referred to as Mahindra, undertakes to replace or repair any part of a Mahindra mower deck where damage has been proven to be caused by defects in material or workmanship.

This Warranty is valid for a period of 2 years for mower deck components from the date of the original retail sale. Parts replaced or repaired under the terms of this Warranty are guaranteed only until the original warranty expires.

It is further understood and agreed that the defect should be immediately reported to the Selling Dealer. The Selling Dealer will generally perform Warranty repairs or replacements and the Purchaser shall deliver the Mahindra Mower Deck to the Dealer's place of business for repair. In the event Purchaser is located more than 75 miles from the Selling Dealer, any Mahindra Dealer authorized to sell and service Mahindra Products may perform the repair at its dealership.

The obligation of Mahindra to the Purchaser under this Warranty is limited to the repair or replacement of defective parts by an authorized Mahindra dealer. Repair or replacement in accordance with this Warranty shall constitute fulfillment of all liabilities of Mahindra and the Selling Dealer in respect to Mahindra Mower Decks.

**There are no warranties beyond those which expressly appear herein. Any implied warranty of merchantability or fitness for a particular purpose is specifically excluded here from.**

### Warranty Provisions:

Mahindra's liability under this Warranty is subject to the observance by the Purchaser of the following provisions:

- The purchaser shall at all times in the operation of any Mahindra Product, use those brands and grades of lubricating oils, lubricants and spare parts officially approved by Mahindra.
- The Mahindra Mower Decks shall have been used in accordance with the procedures specified in the Operator's Manual. This Warranty does not extend to damage resulting from misapplication, abuse, misuse, failure to perform maintenance, negligence, fire, accidents or changes or faulty mounting carried out by the Purchaser. When making a Warranty exchange of parts, the Purchaser shall compensate Mahindra for the time that the parts have been used if they have been exposed to extreme wear.
- Compensation is not paid for physical harm, deadlock, resulting damages, or other losses.
- To obtain warranty service, the Purchaser must (1) report the product defect to an authorized Mahindra dealer and request repair within the applicable warranty term and (2) present evidence of purchase or date of original use.
- The Warranty shall be void if the Mahindra Mower Deck has been altered or repaired outside of a Mahindra dealership in a manner, which, in the sole judgment of Mahindra, affects its performance, stability, or reliability.
- The customer shall be responsible for transportation expenses for the Mahindra Mower Deck to the dealership or travel of dealer personnel to customer location for Warranty repair. The customer shall also pay any premium for overtime labor requested by the customer.
- Temporary repairs or additional costs due to the work being performed after normal working hours will not be compensated.
- The above warranty is in lieu of all other warranties on Mahindra's behalf and neither party assumes any other liability in connection with Mahindra's Products.
- Any dispute arising between Mahindra and the Purchaser concerning the liability of Mahindra under this warranty shall be subject to the laws of the State of Texas.

### Right To Make Design and Product Changes:

Mahindra reserves the right to make changes in the design and other changes in its Mahindra Products at any time without incurring any obligation with respect to any product previously ordered, sold or shipped.

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## DEALER PREPARATION CHECK LIST

### BEFORE DELIVERING MACHINE:

The following check list should be completed.

Use the Operator's Manual as a guide.

**Before operating mower deck, check that your Dealer has covered the following information with you:**

- Equipment has been completely assembled as directed.
- Equipment has been functionally tested for proper operation.
- All safety decals are readable (see decal pages).
- Purchaser has been instructed in proper & safe operating methods:
  - Operators Safety Precautions
  - Tractor Wheel Tread-Tire & Inflation Recommendations
  - Proper Mower Deck Operation
  - Mower Deck Dismounting
  - Mower Deck Mounting
  - Lubrication - Service Care
  - Storage
- Warranty Coverage & Operators Manual explained to purchaser.
- Operators Manual has been delivered to purchaser.

Dealer's Signature \_\_\_\_\_



**CAUTION:** It is recommended that the tractor be equipped with Rollover Protection System (ROPS) and seat belt be used for all implement operations.

**NOTE:** This checklist is to remain in owner's manual.  
It is the responsibility of the dealer to complete the procedures listed above before delivery of this implement to the customer.

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## CONGRATULATIONS

You are now the proud owner of a MAHINDRA MAX 24M Mower Deck. This mower deck is a product of quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your mower deck, please read this manual carefully. It will help you become familiar with the operation of the mower deck and contains many helpful hints about mower deck maintenance. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. Mahindra dealers will have the most up-to-date information. Please do not hesitate to consult with them.

Because Mahindra maintains an ongoing program of product improvement, we reserve the right to make improvements in design or changes in specifications without incurring any obligation to install them on units previously sold.

Because of the possibility that some photographs in this manual were taken of prototype models, production models may vary in some detail. In addition, some photographs may show shields removed for purposes of clarity. Never operate this implement without all shields in place.

## RETAIL CUSTOMER'S RESPONSIBILITY UNDER THE MAHINDRA WARRANTY

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer's responsibility to deliver the product to the authorized Mahindra dealer from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer's responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

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## IMPORTANT SAFETY PRECAUTIONS

### UNDERSTAND SIGNAL WORDS

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE** is used to address practices not related to physical injury.



### SAFETY ALERT SYMBOL

This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel in the operation, transport, maintenance and storage of equipment. Lack of attention to safety can result in accident, personal injury, reduction of efficiency and worst of all – loss of life. Watch for safety hazards and correct deficiencies promptly. Use the following safety precautions as a general guide to safe operations when using this machine. Additional safety precautions are used throughout this manual for specific operating and maintenance procedures. Read this manual and review the safety precautions often until you know the limitations. Do not allow children or untrained persons to operate equipment. Do not operate equipment under the influence of drugs or alcohol.

### THE TRACTOR

1. Read, understand and follow all instructions in the manual and on the machine before starting. Failure to do so could result in serious injury or death and equipment damage. Keep this manual in a safe place for future and regular reference and for ordering service parts.
2. Read and understand all Safety Precautions in the Tractor Operator's Manual.
3. Allow only responsible operators familiar with the instructions to operate the machine. Know the controls and how to stop tractor engine and mower quickly in an emergency.
4. Tractor must be equipped with Rollover Protective System (ROPS) and seat belt for all mower operations. Keep foldable ROPS systems locked in the up position at all times when operating the mower. Falling off or overturning a tractor can result in death from being run over or crushed.
5. Always wear seat belt on Rollover Protective System (ROPS) equipped tractors. Do not wear a seat belt if the tractor Rollover Protective System (ROPS) has been removed.
6. Wear personal protective equipment (PPE), such as, but not limited to, protection for eyes, ears, lungs, head, hair, hands and feet when operating, servicing, or repairing the equipment. Avoid wearing loose clothing or jewelry that may catch and entangle on equipment moving parts.
7. Stop tractor engine, place transmission in park (or neutral), engage parking brake, lower mower deck to ground, allow machine moving parts to stop, remove ignition key to prevent unauthorized person from starting tractor before servicing, repairing, or making adjustments to the equipment.
8. Never leave the tractor seat with the mower blades rotating, with the tractor in motion, or the engine running.
9. Use fender hand holds and steps when mounting and dismounting tractor to prevent falls. Keep steps and Operator's platform clean and free of debris.

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10. All tractor three point hitch components and hardware must be tightened to proper specifications to avoid damage to tractor or mower prior to operation. Please review tractor Operator's Manual or consult your local dealer for proper torque and tightening specifications of tractor three point hitch components.

11. Move and turn the tractor at low speeds. Avoid erratic operation and excessive speed.

12. Keep the tractor in gear when traveling down hill.

13. Do not mow near drop-offs, ditches, or embankments. The tractor could suddenly over turn if a wheel travels over the edge of a ditch, or if an edge caves in.

14. Add wheel ballast for stability when operating on slopes. Use extreme care when operating on slopes to maintain stability.

15. Do not allow anyone but the operator on the tractor or mower. Never allow riders on tractor.

16. Use extreme caution when loading or unloading the tractor and mower from a trailer or truck.

### **THE MOWER**

1. Do not operate the mower unless it is rigidly attached to the tractor. Failure to do so could result in serious injury or death and equipment damage.

2. Make sure spring activated locking collar on Drive Shaft slides freely and is seated firmly in tractor PTO spline groove.

3. Keep all shields and guards securely in place.

4. Never operate the mower with the discharge deflector in the raised position.

5. Stop tractor and mower immediately upon striking a foreign object. Exit tractor using proper technique and procedure. Inspect and repair any damage before continuing with mowing operation.

6. Stop tractor using proper procedure and wait until the mower blades come to a complete stop before unclogging discharge chute, making adjustments, or removing any grass or debris from mower deck.

7. Make sure all hardware is properly torqued before operating the tractor and mower. See torque chart specifications in this manual as well as the tractor manual. If none are available, contact your dealer for proper values.

8. Never adjust cutting height while tractor engine or mower is running.

9. Make sure all Safety Decals are installed, clean, and free of debris so they are readable. Replace if damaged or worn.

10. Wear gloves when installing belt. Be careful to prevent fingers from being caught between belt and pulleys.

11. Be careful when installing or removing belt from spring loaded idler. Springs store energy when extended and if released suddenly, can cause injury.

### **GENERAL OPERATION**

1. Know your controls. Read this operator's manual and the manual provided with your tractor. Learn how to stop the tractor, the engine, and the mower quickly in an emergency.

2. Watch overhead clearances carefully before driving under power lines, bridges, tree branches, or when exiting or entering buildings. These situations may allow the operator to be struck or pulled from the tractor, which could result in serious injury or death.

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3. Do not put hands or feet under the mower deck or near rotating parts.
  4. Always wear safety glasses with side shields or safety goggles during operation.
  5. Clear the area to be mowed of objects such as rocks, toys, wire, etc. which could be struck and thrown by the mower blades. A thrown object by the mower could travel in any direction and cause injury to the operator or a bystander. To help avoid injury, keep bystanders, children, and pets at least 75 feet from mower while in operation. Stop the mowing operation if anyone enters the area.
  6. Watch for hidden hazards in the area being cut during operation.
  7. Disengage the mower before shifting tractor into reverse and backing up. Always look down and behind before and while backing.
  8. Stop the mower blades when crossing gravel driveways, walks or roadways.
  9. Watch for traffic when operating near or crossing roadways.
  10. Never direct discharge towards people, pets or property.
  11. To avoid injury from thrown debris, never operate the mower when it is raised in the transport position.
  12. Never allow riders on tractor.
  13. Operate only in daylight or with good artificial light.
  14. Do not attempt to mow through unusually tall, dry grass or piles of dry leaves. Debris may build up on the mower deck or contact the tractor exhaust presenting a potential fire hazard.

#### **SLOPE OPERATION**



**WARNING** – Slopes are a major factor leading to loss of control and tip over accidents, which can result in severe injury or death. All slopes require extra caution. If slopes are greater than 15 degrees, do not operate the mower on that area or serious injury or death could result.

1. Add wheel ballast for stability when operating on slopes. Use extreme care when operating on slopes to maintain stability.
2. Use extreme caution and reduce ground speed on slopes.
3. Do not stop, start, or change directions suddenly on slopes. If the tractor tires lose traction, stop mower and proceed slowly straight down the slope.
4. To prevent loss of control and overturning the tractor and mower, always mow up and down slopes, never across.
5. Do not operate or transport on steep slopes.
6. Do not mow on wet grass. Reduced traction could cause sliding on slopes.
7. Keep the tractor in gear when traveling down hill.

#### **TRANSPORTATION**

1. Always engage lift lockouts before transporting the mower.
2. Never allow riders on tractor.

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3. Always use accessory lights and devices when transporting on a road or highway to warn operators of other vehicles. Check your local government regulations.
  4. Be sure the Slow Moving Vehicle (SMV) emblem is visible to the rear. If the SMV sign is worn, faded, or damaged replace immediately.
  5. Use caution and reduce speed when transporting under adverse conditions, turning, or on inclines.
  6. Do not operate PTO during transport.

## **MAINTENANCE**

1. Protect your eyes – Wear Safety Glasses.
2. Never run the tractor and mower inside a closed area. Engine exhaust fumes can be lethal.
3. Always engage lift lockouts before servicing the mower.
4. Before performing any service work make sure hoists, floor jacks, and jack stands are in good working order and are properly rated to support the tractor and mower.
5. Do not work under the tractor or mower unless they are secured by a hoist and jack stands. Never place any body part underneath equipment or between moveable parts even after tractor has been turned off. Hydraulic system leak downs, hydraulic system failures, mechanical failures, or control lever movement can cause mower and tractor components to drop or rotate unexpectedly and cause serious injury or death.
6. Avoid injury, do not adjust, service, clean, or unclog the mower when the tractor engine is running.
7. Frequently check the mower blades. They must be sharp and free of nicks, cracks and securely fastened.
8. Do not handle mower blades with bare hands. Wear leather gloves or wrap blades in the area where they will be handled. Improper handling may result in serious injury.
9. Your Dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous if installed.
10. To reduce fire hazard, keep the tractor and mower free of grass, leaves, or other debris build up. Debris may build up on the mower deck or contact the tractor exhaust presenting a potential fire hazard.
11. Never alter safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
12. It is not recommended to use a pressure washer to clean the mower assembly. High pressure water may cause damage to spindles, pulleys, belts, or bearings shortening life and reducing serviceability



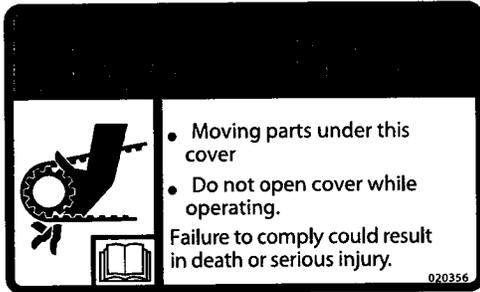
### **AVOID HIGH-PRESSURE FLUIDS**

ESCAPING fluid under pressure can have sufficient force to penetrate the skin and cause serious injury. Be sure to stop engine and relieve all pressure before disconnecting lines. Be sure all connections are tight and that lines, pipes, and hoses are not damaged before applying pressure to the system. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood – not your hands – to search for suspected leaks.

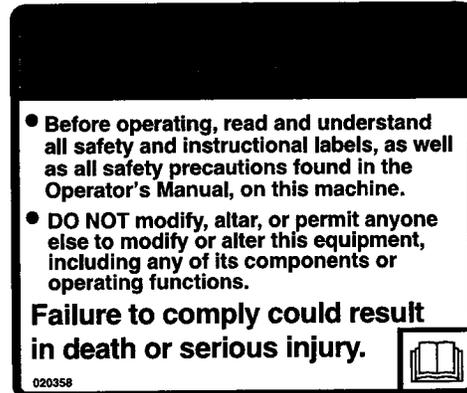
**SEE A DOCTOR** at once if injured by escaping fluid. Serious infection or gangrene can develop if proper medical treatment is not administered immediately.

## SAFETY DECALS

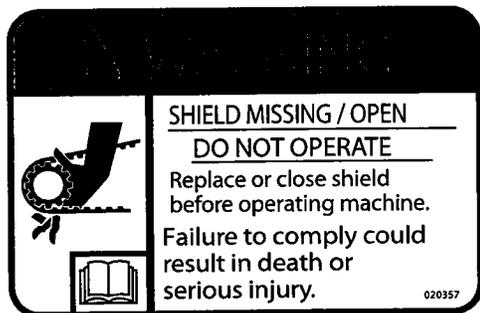
The safety of the operator was the prime consideration in the design of the mower. Proper shielding, convenient controls, simple adjustments, and other safety features have been built into this implement. The following decals are located on the mower deck. Keep decals clean and replace them immediately if they are missing or damaged. Contact your dealer for replacements.



Part No. 020356  
Located on RH and LH Belt Shields



Part No. 020358  
Located on Deck Weldment

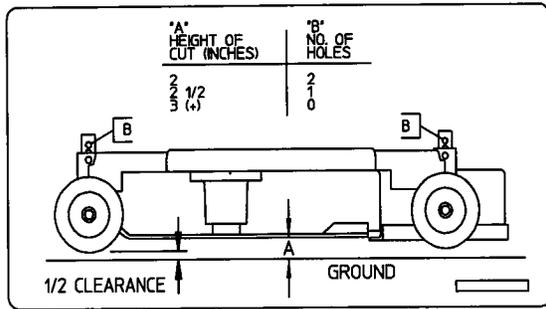


Part No. 020357  
Located on Deck Weldment

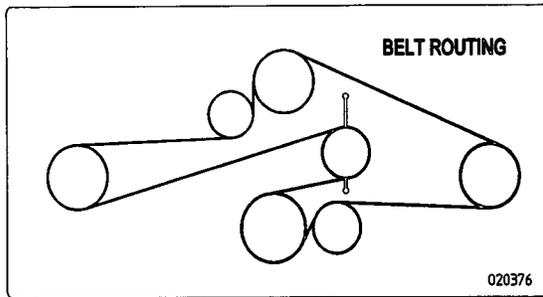


Part No. 020359  
Located on Deck Weldment

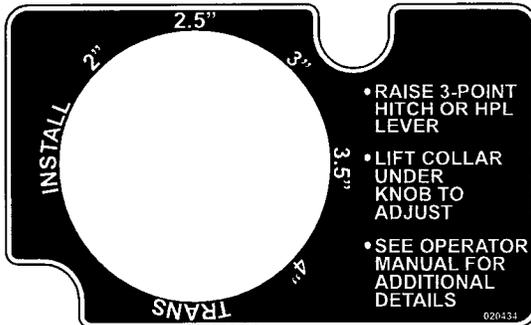
## INFORMATIONAL DECALS



Part No. 020375



Part No. 020376



Part No. 020434

## SERIAL NUMBER INFORMATION

A product identification label is provided for your mower. The numbers on this label are important if your mower should require dealer service, or if you need additional information on the equipment. Prior to using the mower for the first time, record the numbers from the identification label in the appropriate spaces provided below.

MODEL NO. \_\_\_\_\_

SERIAL NO. \_\_\_\_\_



# Mahindra max

Part No. 020406

# 60"

Part No. 020409

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## **IMPORTANT FEDERAL LAWS AND REGULATIONS\* CONCERNING EMPLOYERS, EMPLOYEES AND OPERATIONS.**

\*(This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such).

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 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**

Current 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." These will include (but are not limited to) instructions to:

- Keep all guards in place when the machine is in operation.
- Permit no riders on equipment.
- Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.
- Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

### **EMPLOYEE TRACTOR OPERATING INSTRUCTIONS:**

1. Securely fasten your seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near 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 drawbar and hitch points recommended by tractor manufacturers.
9. When tractor is stopped, set brakes securely and use park lock if available.

### **Child Labor Under 16 Years Old**

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 situations. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

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## OPERATION



**WARNING - Make sure Deflector Chute is installed and correctly functioning to prevent injury. Never operate mower with chute removed or raised out of operating position.**



**WARNING - To avoid injury never direct the discharge of material towards bystanders or allow anyone near the machine while in operation.**



**CAUTION - To avoid injury and damage, re-torque all fastening hardware, including blades and spindle retaining hardware after the first hour of operation.**

**NOTICE: The mower is not equipped with ground engaging gauge wheels and is not designed to be operated with the wheels on the ground.**

Safe operation of the tractor and mower is the responsibility of the operator. Operator must be familiar with tractor and mower controls and how they function, and all Safety Precautions before starting operation. The mower is designed as a finish cut mower.

Do not allow anyone but the operator on the tractor or mower. Never allow riders on tractor.

The deck cutting height is set by positioning the Clevis Pin at the Rear Three-Point Hitch area and allowing the Clevis Pin to rest on the draw bar. Refer to "Cutting Height Adjustment" section of this manual for proper adjustment.

The anti-scalp wheels on each side of the mower deck can serve as a guide for mowing. When mowing, position the mower deck such that the anti-scalp wheel overlaps the edge of the grass previously cut. This will assure full mower cut coverage.

Mowing should be performed with the tractor engine operating at the recommended RPM. Do not mow at high ground speed. Operating at recommended RPM will insure proper blade speed for effective cutting and discharge of grass from the deck.

For best results, it is recommended that the first two passes around the area to be mowed has the discharge chute directed towards the center. After the first two passes have been completed, reverse direction to have the discharge chute pointed outward. This will give a better appearance to the lawn.

Blade sharpness will affect the appearance of the area cut. Dull or damaged blades will cause the grass to appear torn, rather than cut cleanly.

Do not cut the grass too short. Short grass will promote weed growth and yellows in dry weather. Allow grass to grow longer in hot, dry conditions. The additional length reduces heat build-up, preserves needed moisture and protects the grass from heat damage.

Mow often. Do not allow the grass to get too tall. Mowing areas with tall grass may require cutting at the maximum height as a first pass. After completing the mowing operation at the maximum height, the area can be recut with the mower set at the desired height.

At certain times of the year and under some conditions, the mower may leave streaks of uncut grass. The general cause is tall grass and weeds. With this type of condition, it may be necessary to make a second pass over the cut area to get an even cut.

Cutting off too much at one time shocks the plant's growth system and weakens the grass plants. A good guideline to follow is the 1/3 rule: cut no more than one third of the grass height, and never more than 1 inch at a time.

Mow when the grass is 3 to 4 inches tall.

The time of day and condition of the grass will affect the results you obtain when mowing. Mow at the time of day when the grass is cool and dry. Late afternoon or early evening will provide the most ideal conditions. Do not mow when the grass is wet or heavy with dew. Wet grass can build up on the underside of the deck, creating an imbalance through the blades and spindles, causing possible damage to the mower deck belt. Wet grass also leaves unsightly clumps on the lawn.

Should the mower deck become plugged, raise deck, shut off engine, set parking brake, and lock the deck in the transport position.

Clean the underside of the mower deck using a scraper.

Operate the mower only in daylight or with good artificial light.

## ASSEMBLY

The mower deck has been partially disassembled and secured to the shipping skid within the crate assembly. Initial installation on the tractor will require a hoist or other device capable of safely lifting the entire mower deck assembly from the shipping crate.

**NOTICE - Tighten all hardware to torque requirements specified in torque chart at back of manual.**

1. Remove crate top and all straps securing deck to crate sides. Remove crate sides.

2. Remove any miscellaneous items which have been fastened to the mower deck or crating and arrange conveniently. Remove strapping securing deck to skid.



### CAUTION

Be sure hoist being used is suitable, has sufficient capacity and is in the proper position. Do not allow anyone under the mower deck assembly supported by hoist.

3. Raise and support deck assembly with hoist. Remove crate skid from underneath deck assembly.

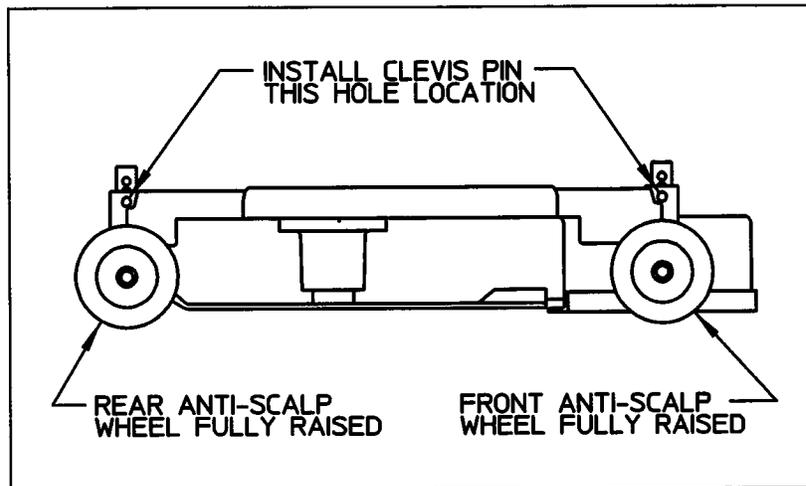
4. Remove Locking Rings from clevis pins and "fully" raise rear anti-scalp wheels. Install clevis pins in holes shown and secure with Locking Rings.

5. Remove Locking Rings from clevis pins and "fully" raise front anti-scalp wheels. Install clevis pins in holes shown and secure with Locking Rings.

6. Carefully lower mower deck assembly to ground.

7. Install Chute Mount Weldment (48) to mower deck using two 3/8 x 1-1/4" Bolts (8) and Locknuts (15). Do not torque hardware, snug hardware to allow chute to pivot.

8. Proceed to the Mount Kit Assembly Instructions to complete the mower to tractor installation. Check the installation carefully and make sure that all components are correctly installed and securely fastened.



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## MOWER DECK INSTALLATION TO TRACTOR

*NOTE – If there is access to an overhead hoist with the proper lift rating, the operator has the option of installing the deck to the tractor by raising the front of the tractor and rolling the mower deck rearward, under the tractor.*

*NOTE - The most common method for installation is to drive the tractor over the mower deck. Remove loader and backhoe if installed prior to installing deck.*

Begin the process by selecting and placing wood "blocking" which will act as a "ramp" at the back and front of the mower.

Start tractor and place tractor in the lowest 4WD gear possible. Carefully drive forward and align front wheels with "ramp" created earlier. Proceed forward and continue until deck is located between front and rear wheels of tractor.

Shut off engine and remove key. Remove blocking material from front and back of deck.

*NOTE: For optimum cutting, it is recommended to leave the base loader and backhoe off the tractor. Leaving the base loader and backhoe off the tractor will reduce ground compaction by the tires, improve overall maneuverability and improve the view of the cutting area from the operator's seat.*

### SEE DIAGRAM NEXT PAGE

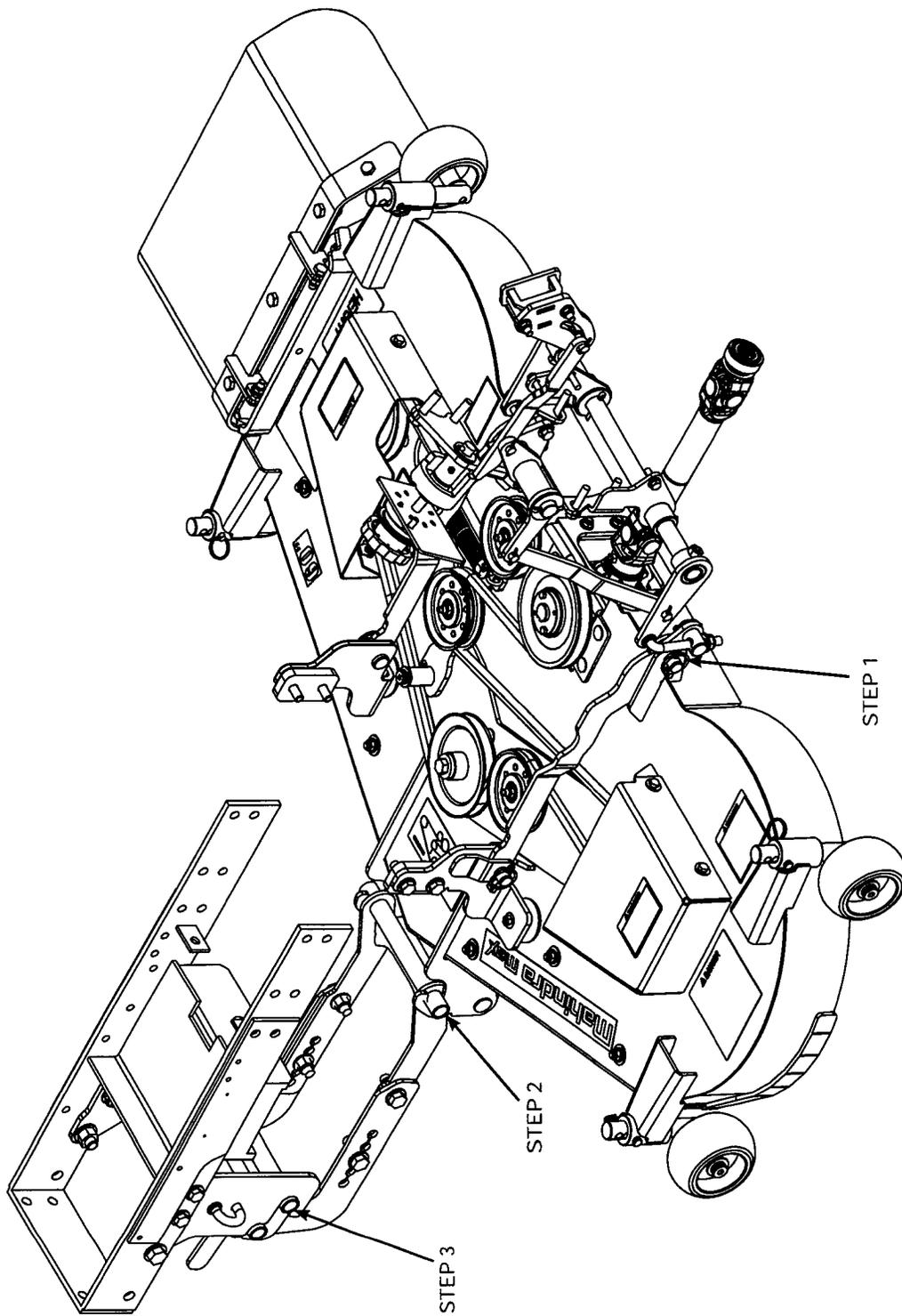
**Step 1.** Secure Right and Left Hand Link Assemblies to back of deck. Use Clevis Pins and Lynch Pins.

**NOTICE: Lynch Pin must be assembled to outside of deck as shown. Failure to assemble the Lynch Pin in the correct manner will lead to Clevis Pin falling out in due course of time. This may lead to severe damage to mower and tractor and impact warranty.**

**Step 2.** Install rod portion of Lower Mount Link Weldment to hook area at front of mower deck.

**Step 3.** At front of tractor, pull out spring loaded J-Pin located on left hand side of tractor. Raise Lower Mount Link Assembly into hooks on Latch Weldment. Be careful not to pinch fingers or hand and rotate handle of Latch Weldment upward to secure assembly into Front Mount Plates. Release J-Pin into hole on Front Mount Plates and through hole in Latch Weldment.

MOWER DECK INSTALLATION TO TRACTOR



## MOWER DECK INSTALLATION TO TRACTOR CONTINUED

### **NOTE - First Time Installation Adjustments.**

Insert front bolts into the 2nd from the front set of holes of the two halves. This will be a starting point for front to rear pitch of the mower deck. Tighten bolts in place but do not torque at this time.

Adjust link assembly length until rod fits snugly in hooks at front of mower deck. See diagram at right.

**NOTICE - Due to variations in mower deck lift geometry, adjustment of link assembly should take place with mower set to desired cut height. See Cutting Height Adjustment section.**

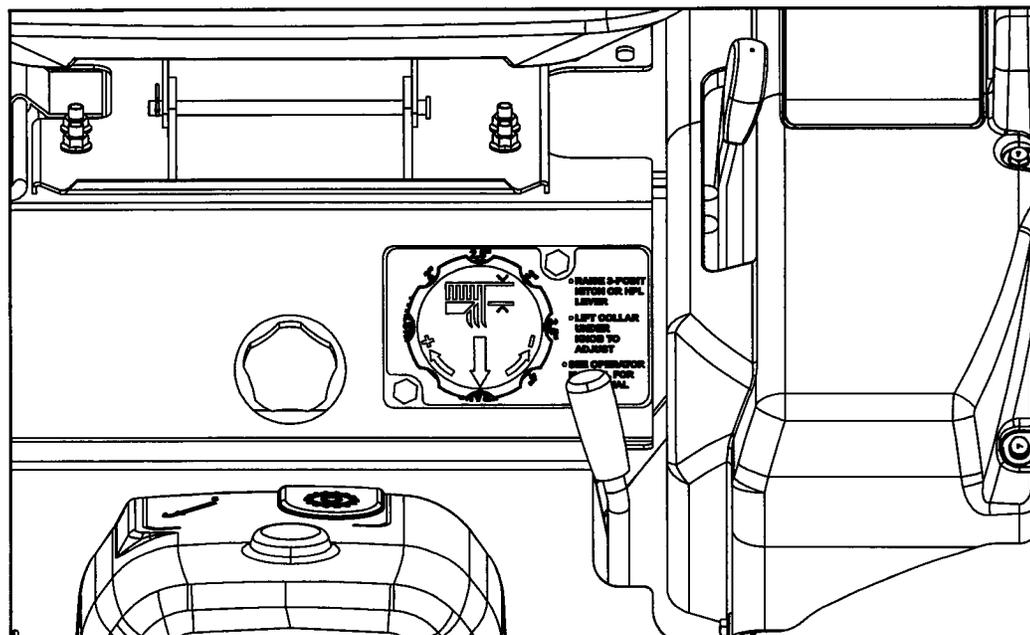
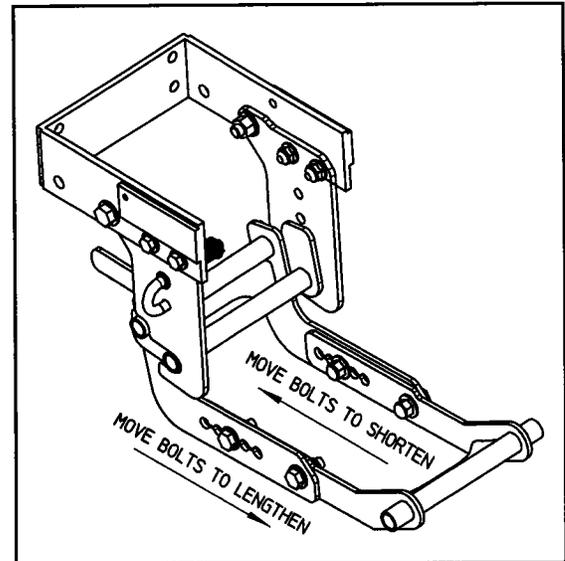
Raise and connect the mower drive shaft assembly to the tractor mid-PTO.

Start tractor and raise deck assembly. Shut off engine and remove key.

Remove Locking Rings from Clevis Pins and position rear Anti-scalp Wheels to desired cut setting. Refer to decal on mower deck or "Mower Cut Height Adjustment" section in manual. Install Clevis Pins in holes and secure with Locking Rings.

Remove Locking Rings from Clevis Pins in front Anti-scalp Wheels and position to desired cut setting. Refer to decal on mower deck or "Mower Cut Height Adjustment" section in manual. Install Clevis Pins in holes and secure with Locking Rings.

Adjust Height of Cut Knob to match "Height of Cut" selected on Anti-Scalp Wheels.



## MOWER DECK REMOVAL FROM TRACTOR

Park the unit on a smooth hard surface. Raise deck. Stop the engine. Set parking brake and remove key.

Remove Locking Rings from Clevis Pins and "fully" raise rear Anti-scalp Wheels. Install Clevis Pins in holes shown and secure with Locking Rings.

Remove Locking Rings from Clevis Pins and "fully" raise front Anti-scalp Wheels. Install Clevis Pins in holes shown and secure with Locking Rings.

Lower the mower deck to the ground using the three point hitch lever.

Disconnect the mower drive shaft assembly from the tractor mid-PTO. Lower the drive shaft so it rests on ground.

Remove Clevis Pins and Lynch Pins from the Right and Left Hand Link Assemblies at back of deck. Reinstall Clevis Pins and Lynch Pins to deck.

At front of tractor, pull out spring loaded J-Pin located on left hand side of tractor. Rotate handle weldment downward to release assembly from Front Mount Plates.

Remove link assembly from hook area at front of mower deck.

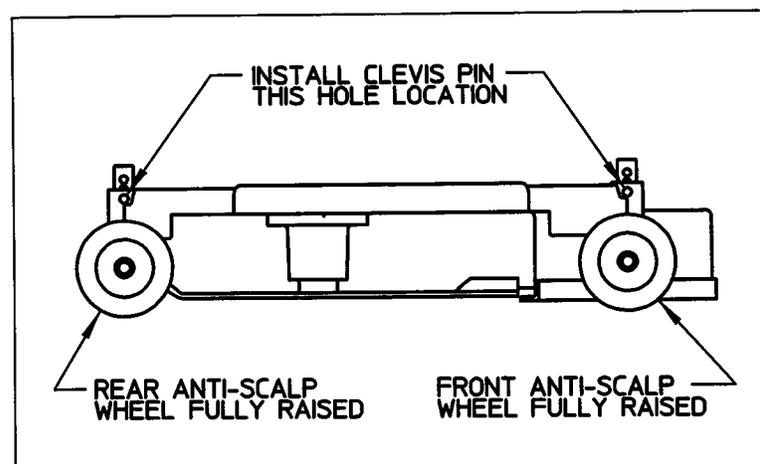
*NOTE – If there is access to an overhead hoist with the proper lift rating, the operator has the option of removing the deck from under the tractor by raising the front of the tractor and rolling the mower deck forward, from under the tractor.*

*NOTE - The most common method for removal is to drive the tractor over the mower deck. Make sure loader and backhoe is removed from tractor if installed.*

Begin the process by selecting and placing wood "blocking" which will act as a "ramp" at the back and front of the mower.

Start tractor and place tractor in the lowest 4WD reverse gear possible. Carefully back up while aligning front wheels with "ramp" created earlier. Proceed rearward and continue until deck is located at front of tractor.

Shut off engine and remove key. Remove blocking material from front and back of deck.



## LUBRICATION

**NOTICE:** It is not recommended to use a pressure washer to clean the mower assembly. High pressure water may cause damage to spindles, pulleys, belts, or bearings shortening life and reducing serviceability.

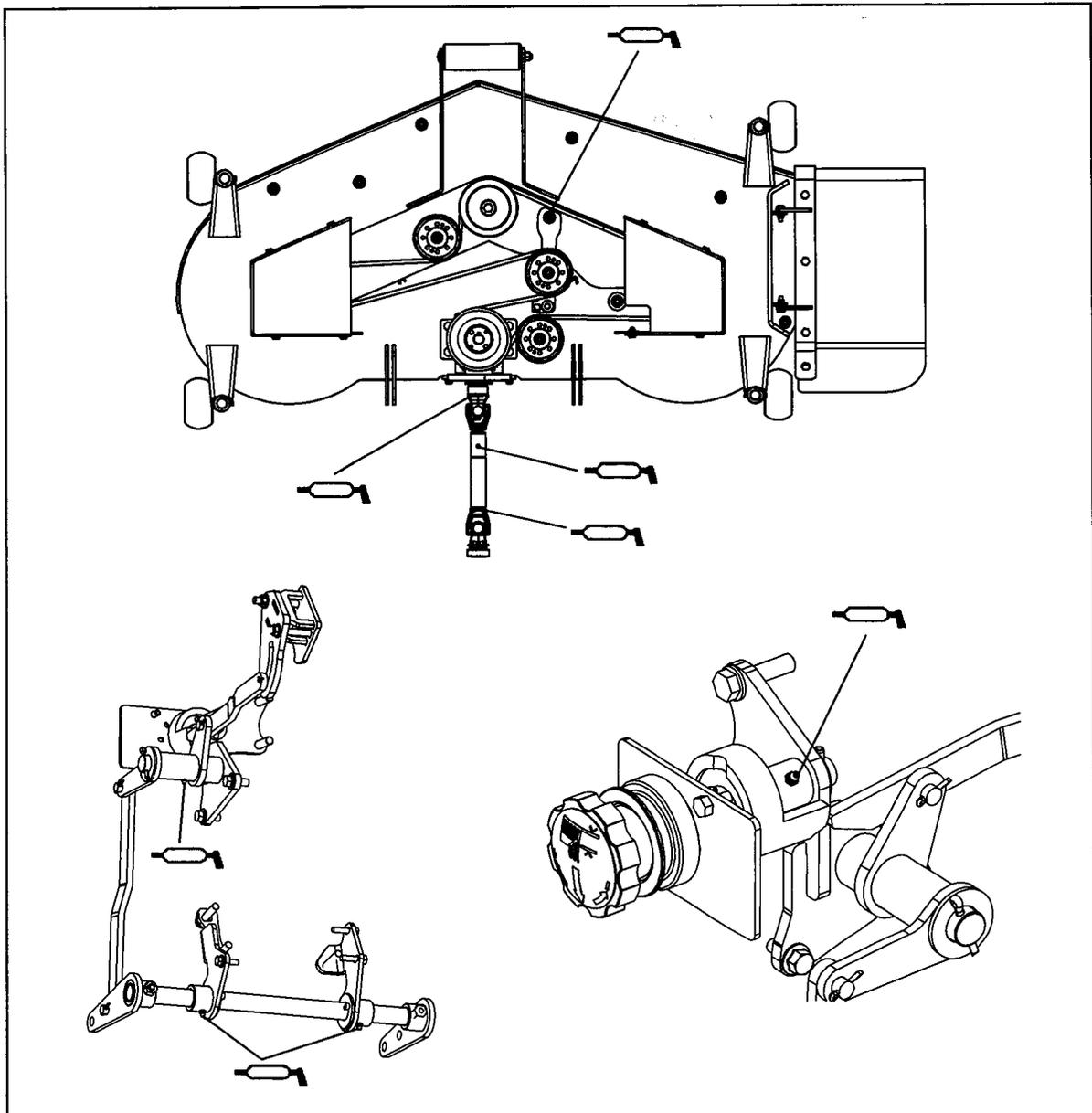
Life of the mower depends upon the maintenance given. Proper lubrication is very important. Always lubricate the deck and lift components before operation.

Always wipe the fittings to be lubricated with a clean cloth before greasing. Dirt injected into the fitting will cause damage to the machined parts.

Use SAE Multi-purpose lithium base grease on all lubrication locations shown below. Remember to wipe away excess grease, which has built up around parts.

Lubricate grease fittings after every 50 hours of operation.

Miscellaneous working parts not provided with lubrication fittings should be oiled daily with a good grade of lubricating oil.



## CUTTING HEIGHT ADJUSTMENT

**NOTICE:** The Mower is to be operated with the front anti-scalp wheels and rear anti-scalp wheels above the ground.

The anti-scalp height is set by positioning the right and left wheels in one of three index hole settings. The hole settings range in 1/2" increments from a cutting height of approximately 2 inch (bottom hole) to 4 inches (top hole).

### INITIAL SET UP

To initially adjust the deck, park on level ground and set the Height of Cut Knob to the 4 inch height of cut. Lower the 3 point arms. Have each of the anti-scalp wheels placed in the middle hole position. Place a 2 x 4 horizontally under each of the anti-scalp wheels. Tighten or loosen the nuts on the Lift Link Rods until you can slide the 2 x 4 under the wheel with wheel slightly touching.

After selecting the height of cut, the anti-scalp wheels are adjusted as follows.

Start the tractor and raise the mower deck to the upmost position by raising the three point hitch lever. Set parking brake, shut off engine and remove key.



**WARNING** – Use caution when adjusting deck cutting height. Block mower deck before proceeding with adjustment. The mower deck's weight is supported by the tractor lift system. The deck could drop if the three point lift lever is accidentally shifted.

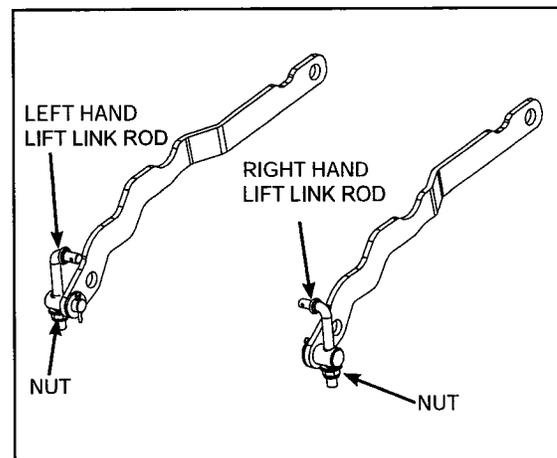
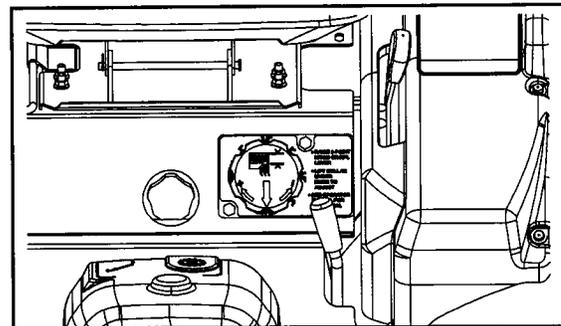
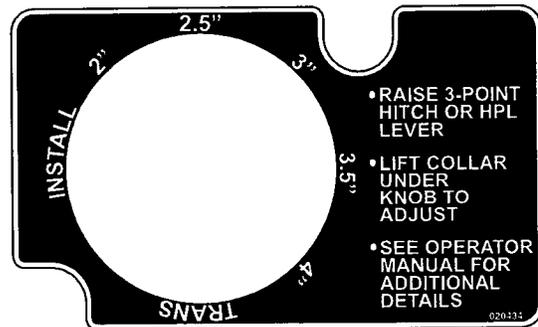
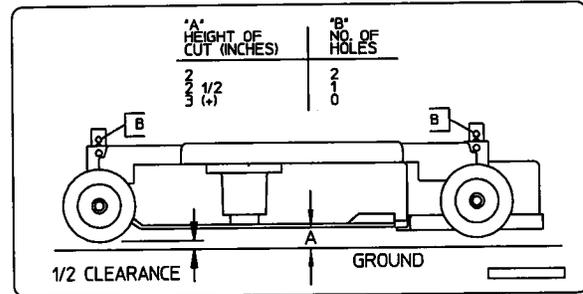
After determining the desired cut height as shown in the chart, and on the mower deck itself, adjust each anti-scalp wheel.

Remove Locking Ring and Clevis Pin from deck bushing. Align the hole in the wheel spindle with the hole in the deck bushing and install Clevis Pin. Secure with Locking Ring.

Repeat process for other three anti-scalp wheel spindles.

**NOTE** - Make sure the corresponding height hole setting is used in all four anti-scalp wheel settings.

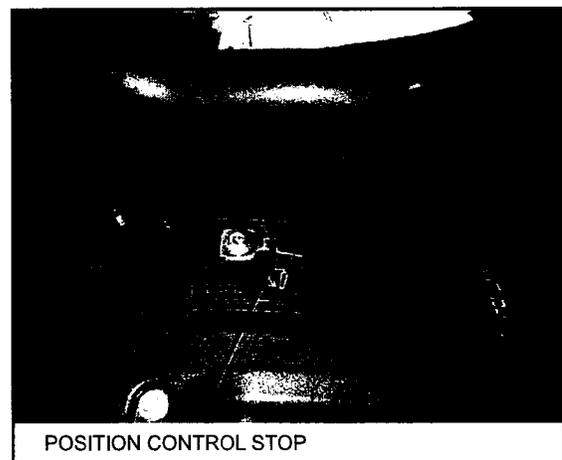
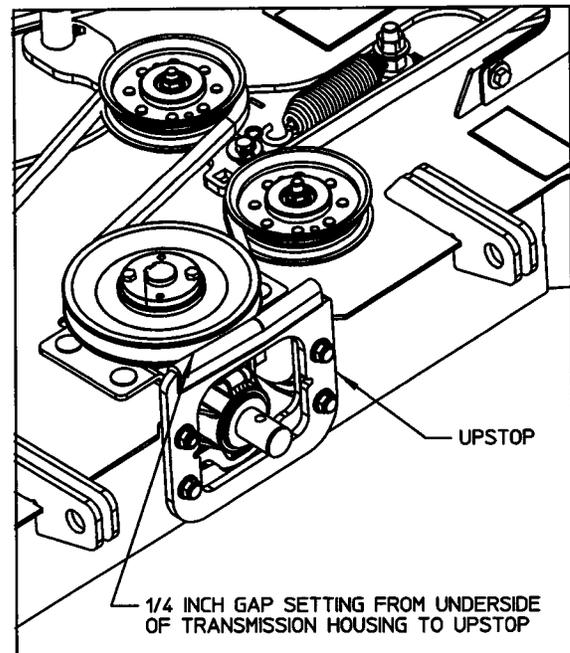
Adjust Height of Cut Knob to match "Height of Cut" selected on Anti-Scalp Wheels.



## POSITION CONTROL LEVER STOP ADJUSTMENT

Raise the mower deck until Up-stop is 1/4" from the bottom of the transmission housing. Adjust the Position Control Stop to set this as the maximum lift height.

**NOTICE:** Failure to make proper adjustment may result in damage to mower and/or dead heading and over heating the tractor hydraulic system.



## MOWER BLADE REMOVAL, SHARPENING, AND INSTALLATION



**DANGER Avoid Injury – A worn or damaged blade can break, and a piece of the mower blade could be thrown into the operator's or bystander's area, resulting in serious injury or death.**

Never weld or attempt to straighten bent mower blades.

The mower blades must be kept sharp for a proper cut quality. Inspect blades before each use to make sure they are in good condition. Replace any blade that is damaged or worn.

### BLADE REMOVAL

*NOTE – Remove mower deck from tractor. Refer to "Mower Deck Removal From Tractor" section.*



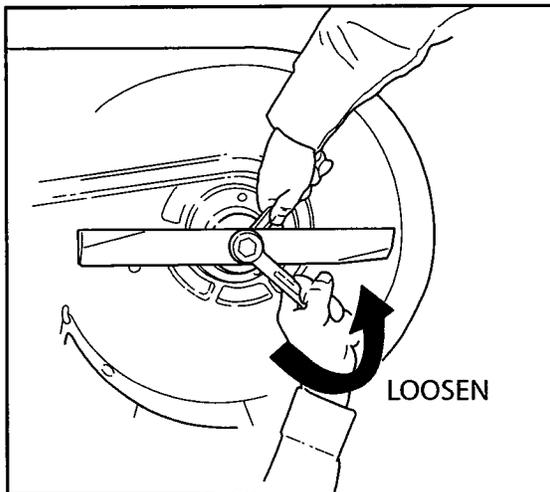
**WARNING – Do not work under a raised mower deck unless it is securely supported by a hoist or jack stands.**



**WARNING – Avoid injury when handling blades as they are sharp, wear leather gloves or protectively wrap the blades.**

Remove the blades using a 15/16" wrench to loosen bolt securing the blade.

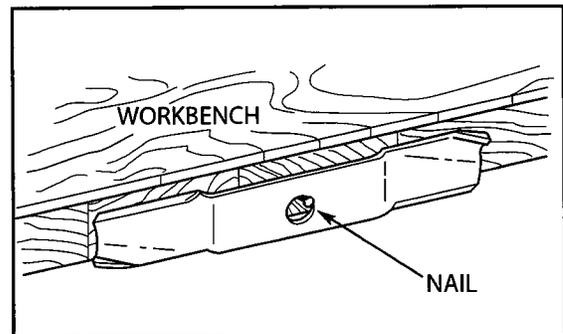
A block of wood must be placed between the deck housing and the blade to assist in removal of the bolt.



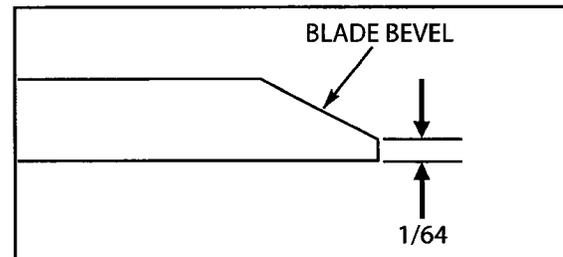
### BLADE SHARPENING

Sharpen the cutting edges of the blade evenly and at the same angle so the blades remain balanced. Unbalanced blades will cause excessive vibration, which could lead to gear box damage or damage to other mower components.

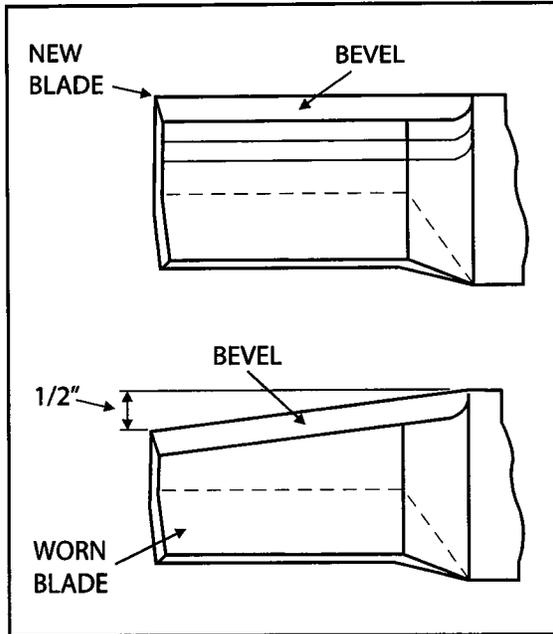
Check the blade for balance by centering the blade's hole on a nail lubricated with a drop of oil. The heavy side of the blade will drop. Sharpen the heavy side until the blade remains balanced on the rod.



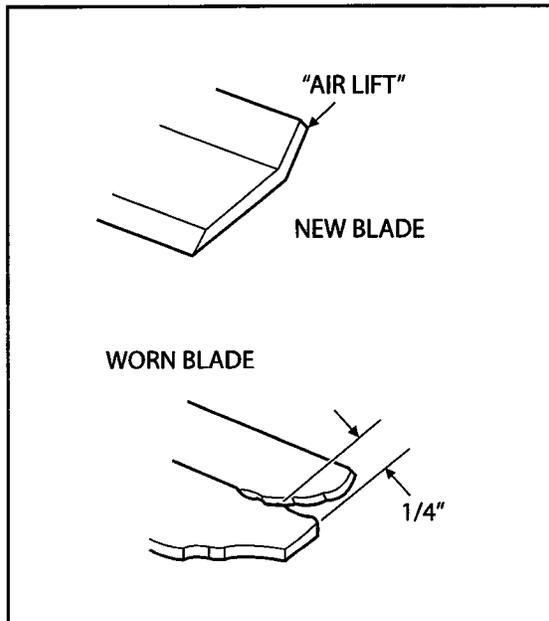
Sharpen the blade following the original blade angle. When using a grinder or grinding disk, use care such that the cutting edge does not get hot, causing the blade to lose its heat treatment. Loss of heat treatment will result in rapid blade wear and could fail in a hazardous manner. Do not sharpen to a razor edge. See diagram for proper method of sharpening.



If the cutting edge of the blade has had more than a 1/2" of the metal removed from sharpening or wear, the blade must be replaced.



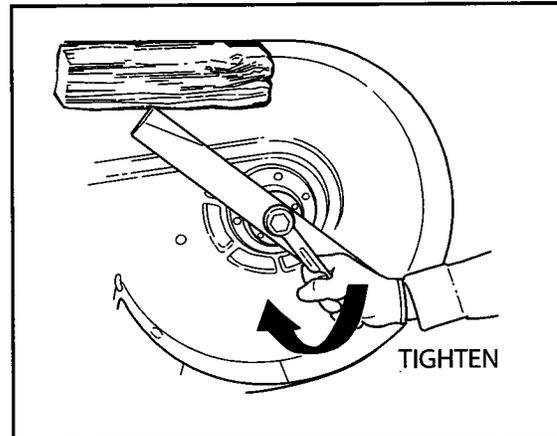
If the "air lift" area of the blade has eroded and a notch has developed and is 1/4" deep or greater, the blade must be replaced.



## BLADE INSTALLATION

When reinstalling the blade note orientation, the "wing" must be pointing upward toward the top of the deck. Torque the bolt to 204 ft-lbs.

Check and re-torque the blade retaining bolt after the first hour of mower operation.



## BELT REPLACEMENT

The mower deck belts should be replaced every 200 hours of mower operation, or anytime the belts shows signs of wear, cracking, or other damage.

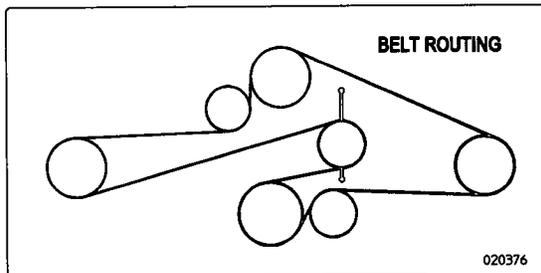
**NOTICE** – The mower **MUST** be removed from the tractor for belt replacement.  
See **“Mower Deck Removal”** section for proper procedure.

### REMOVAL

Remove hardware securing the Right Hand Belt cover to the deck.

Remove hardware securing the Left Hand Belt cover to the deck.

Note the routing of the belt to help ensure proper installation of the new belt. Refer to belt diagram decal on deck.



**CAUTION** – The Idler Arm with Idler Pulley are under spring tension. To prevent possible injury, use caution when handling the Idler Arm assembly.

Place a “Breaker Bar” in the square hole provided in the Idler Arm. Carefully push the Idler Arm towards the left hand side, away from discharge opening to relieve tension from the belt. Slip the belt off of the Right Hand Spindle Pulley, then carefully release the Idler Arm.

Remove the belt from the Center Spindle Pulley.

Remove the belt from the first fixed Idler Pulley.

Remove the belt from the Left Hand Spindle Pulley.

Remove the belt from the Idler Arm Pulley.

Remove the belt from the Gear Box Pulley.

Remove the belt from the second Idler Pulley.

Remove the belt from the deck and discard.

### INSTALLATION

Route the “backside” of the belt around the fixed Idler Pulley near Gear Box.

Route belt around Gear Box Pulley.

Route the belt around the Idler Arm Pulley. The “backside” of the belt will be making contact with the Idler Arm Pulley.

Route belt around the Left Hand Spindle Pulley.

Route the “backside” of the belt around the fixed Idler Pulley near Center Spindle.

Route belt around the Center Spindle Pulley.

Make certain the belt is properly engaged in each pulley, then place a “Breaker Bar” in the square hole provided in the Idler Arm. Carefully push the Idler Arm towards the left hand side, away from discharge opening to relieve tension. Slip the belt over the Right Hand Spindle Pulley, then carefully release the Idler Arm.

Reinstall Right Hand and Left Hand Belt covers to the deck.

## GEAR BOX

Make sure the mower deck and tractor are located on level ground for service. The correct oil level will be filled to the drive shaft center line.



**CAUTION – Prior to operation, make sure the gear box contains the correct amount of oil (6 ounces). If under filled or overfilled, damage to the gearbox or personnel injury may result.**

Approved lubricants for units operating in ambient temperatures up to 125 degrees Fahrenheit, and oil temperatures to 200 degrees Fahrenheit is "Mobilube HD80W-90" (or equivalent) is recommended. For gear drives operating continuously above 200 degrees Fahrenheit, "Mobilube synthetic SHC 75W-90" (or equivalent) is recommended.

**NOTICE: Do not combine synthetic with non-synthetic oils in the gearbox.**

The lubricant level should be checked each 24 hours of operation. After the first initial 50 hours of operation, drain the oil and refill to the proper level. Thereafter, oil changes should take place after every 250 hours of operation.

Remove plug located on side of gear box located on the side opposite of the fixed Idler Pulley.

Correct oil level is to the center line of the drive shaft.

### DISASSEMBLY

Remove the mower from under the tractor and prepare it for gearbox removal.

1. Remove all fasteners retaining the mower gearbox brackets to the top of the deck and remove the gearbox assembly.
2. Loosen and remove the collet hub and pulley from the output shaft on the gearbox.
3. Remove the bracket(s) from the gearbox. Remove both side pipe plugs, lay the box on one side and drain all old oil.
4. Remove all eight socket head bolts securing the gearbox halves together. Tap the seam with soft wood or plastic hammer to break the seal. Lay the gearbox on its side and remove the top half. The top half contains thru holes.

5. Lift both shafts from the case and completely disassemble the gearbox. Remove old sealer from both housing halves, wash parts in a clean solvent and inspect for signs of excessive wear or damage.

### REASSEMBLY

1. Place both shaft assemblies in the bottom case half, identified by the threaded holes. Make sure all parts are correctly positioned, especially the seals. The pinion shaft seal must be against the front lip of the casting.

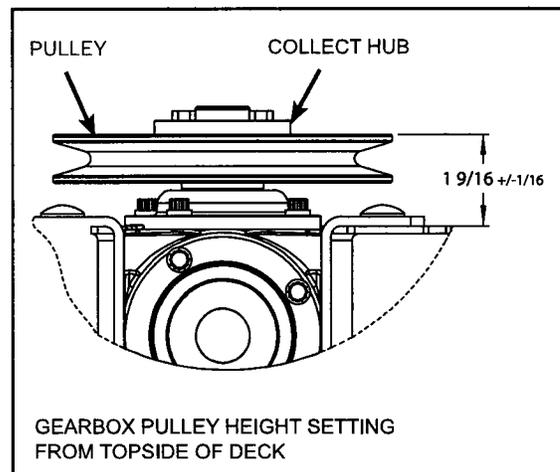
**NOTICE: DO NOT allow liquid gasket material to get into the seal recesses in the housing.**

2. Apply a 1/16 inch (1.6mm) bead of Loctite Number 515 liquid gasket material to the flat surface of the bottom case half only.

3. Place the cases together, insert and torque the socket head bolts to 15-20 ft. lbs (20-27 Nm). Lightly tap the shaft ends with a soft hammer to seat the bearings against the retaining rings.

4. Position the gearbox with output shaft pointing up, as it will be on the mower and fill it with oil.

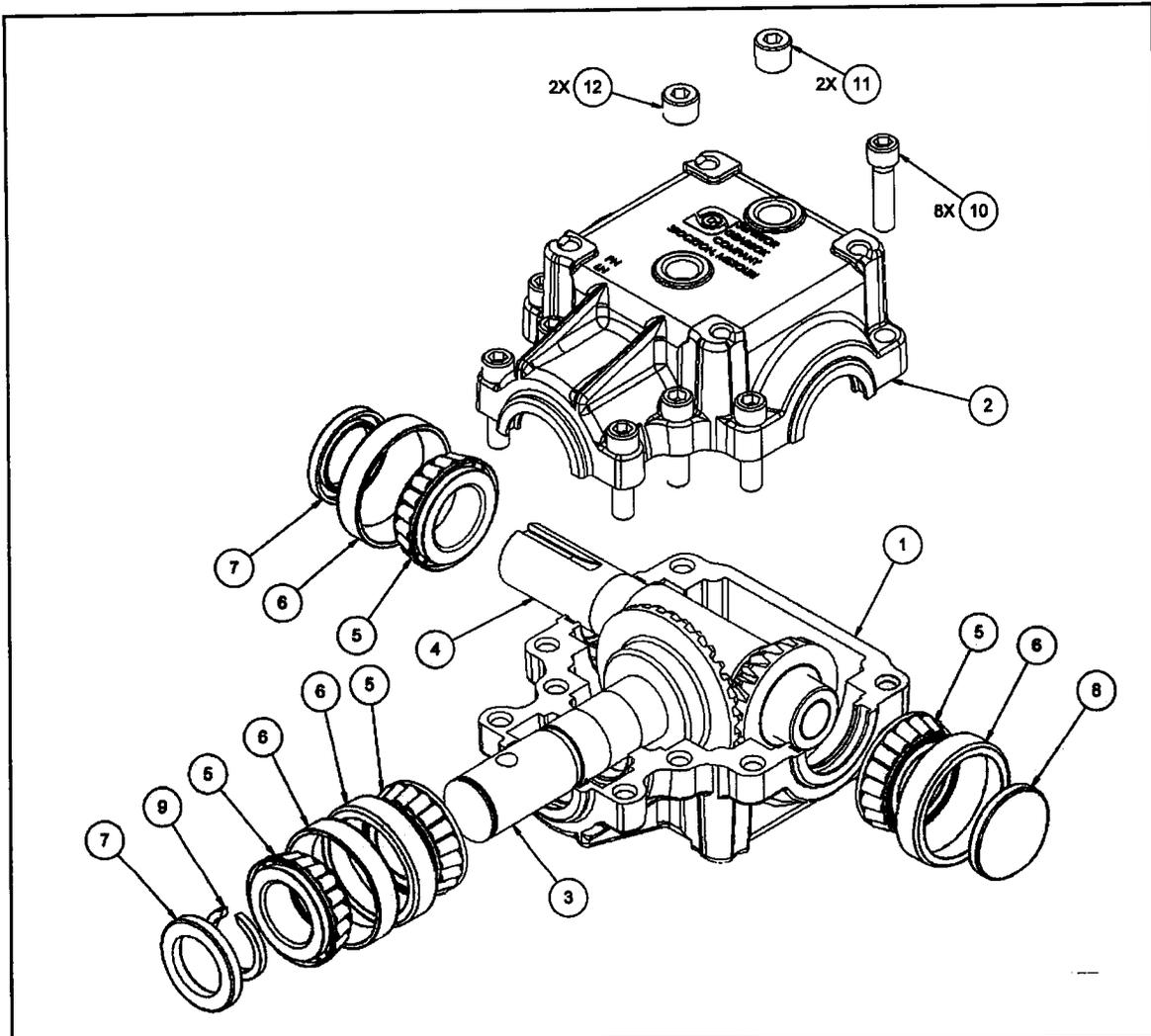
5. Reinstall the mount brackets to the gearbox. Replace the gearbox and bracket assembly on the mower deck with its removed fasteners. Install the pulley and collet hub on the output shaft on the gearbox. The collet hub and pulley must be set at the 1-9/16" dimension to maintain proper belt clearances. The collet hub will move slightly as it is tightened, check dimension.



## GEARBOX SERVICE PARTS BREAKDOWN

SYM	QTY	DESCRIPTION
1	1	HSG, R100 MACH TAP STD
2	1	HSG, R100 MACH THRU STD
3	1	ASSY, STUB SHAFT/GEAR
4	1	ASSY, CROSS SHAFT/GEAR
5	4	BRG, CONE TK# L44463 1.000
6	4	BRG, CUP TK#L44610 1.9800
7*	2	SEAL, 1.00-1.50-.187 (R) TC
8	1	SEAL, END CAP, 1.50-.187
9	1	RETAINING RING, EXT 1.000 SHFT
10	8	BOLT, 5/16-18 X 1.25 SHCS GR8
11	2	PLUG, 1/4-18 NPT SCHD W/3M
12	2	PLUG, 1/4-18 NPT SCHD SHORT GB
13	6	LUBE/EX 80W90

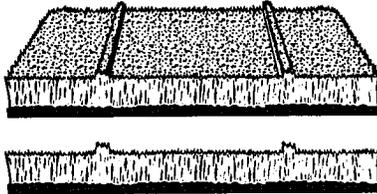
\*PARTS SUPPLIED WITH GEAR BOX SERVICE KIT 015286, OTHER COMPONENTS ARE NOT SERVICEABLE.  
FOR COMPLETE GEAR BOX, ORDER PART NO. 015285



## COMMON MOWING PROBLEMS

### STREAKING

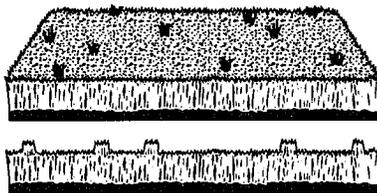
Streaking is when thin strips of uncut grass are left behind the mower. Streaking is usually caused by operator error or poor blade maintenance.



CAUSE	SOLUTION
<i>Blades are not sharp.</i>	Sharpen your blades.
<i>Blades are worn down too far.</i>	Replace your blades.
<i>Engine speed is too slow.</i>	Always mow at rated PTO engine speed.
<i>Ground speed is too fast.</i>	Slow down.
<i>Deck is plugged with grass.</i>	Clean out the mower.
<i>Not overlapping cutting rows enough.</i>	Overlap your cutting rows.
<i>Not overlapping enough when turning.</i>	When turning your effective cutting width decreases - overlap more when turning.

### STINGERS

Stingers are sparse patches of uncut grass left behind the mower. Stingers are usually caused by operator error or poor blade maintenance.

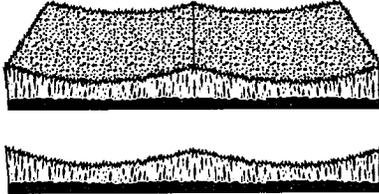


CAUSE	SOLUTION
<i>Blades are not sharp or are nicked.</i>	Sharpen your blades.
<i>Blades are worn down too far.</i>	Replace your blades.
<i>Engine speed is too slow.</i>	Always mow at rated PTO engine speed.
<i>Ground speed is too fast.</i>	Slow down.
<i>Deck is plugged with grass.</i>	Clean out the mower.

## COMMON MOWING PROBLEMS

### UNEVEN CUTTING

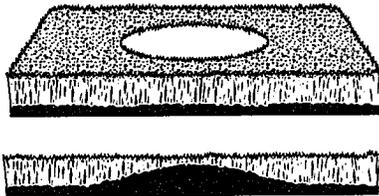
Uneven cutting is waviness or smooth troughs in the lawn surface. Uneven cutting is usually caused by mower deck damage or mis-adjustment.



CAUSE	SOLUTION
<i>Deck is not leveled correctly.</i>	Level the deck correctly.
<i>Blades are dull or worn.</i>	Sharpen or replace the blades.
<i>Blades are damaged.</i>	Replace the blades.
<i>Deck is clogged with grass clippings.</i>	Clean out the deck.
<i>Deck shell is damaged.</i>	Repair or replace the deck.
<i>Mower spindle is bent or loose.</i>	Repair or replace the spindle.
<i>Blades are installed incorrectly.</i>	Reinstall the blades correctly.

### SCALPING

Scalping is when the mower deck comes close to or hits the ground. Scalping can be caused by the mower deck misadjustment, unevenness in the lawn, or by mower deck bouncing because the ground speed is too fast.



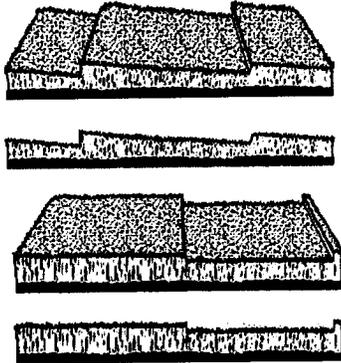
CAUSE	SOLUTION
<i>Lawn is uneven or bumpy.</i>	Roll or level the lawn.
<i>Mower deck cutting height is set too low.</i>	Raise the cutting height.
<i>Ground speed is too fast.</i>	Slow down.
<i>Deck is not leveled correctly.</i>	Correctly level the deck.
<i>Tire pressure is low or uneven.</i>	Check and inflate the tires.

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## COMMON MOWING PROBLEMS

### STEPPED CUTTING

Stepped cutting is sharp ridges or uneven levels left in the lawn surface. Stepped cutting is usually caused by mower deck damage or mis-adjustment, or damage to mower blades.



CAUSE	SOLUTION
<i>Deck is not leveled correctly.</i>	Level the deck correctly.
<i>Tires are not properly inflated.</i>	Check and inflate the tires.
<i>Blades are damaged.</i>	Replace the blades.
<i>Deck shell is damaged.</i>	Repair or replace the deck.
<i>Mower spindle is bent or loose.</i>	Repair or replace the spindle.
<i>Blades are installed incorrectly.</i>	Reinstall the blades correctly.

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## TROUBLESHOOTING THE MOWER

<b><u>PROBLEM</u></b>	<b><u>CAUSE</u></b>	<b><u>CORRECTION</u></b>
<b>Mower will not raise.</b>	<ul style="list-style-type: none"><li>• Lift linkage not properly attached or damaged.</li><li>• Dirt in hydraulic lines.</li></ul>	Attach or repair.  Change hydraulic system filter.
<b>Mower cut is uneven.</b>	<ul style="list-style-type: none"><li>• Mower not leveled properly.</li><li>• Tractor tires not inflated equally or properly.</li><li>• Cutting with attachment lift in raised position.</li></ul>	See Mower Adjustment. See Tractor Manual Maintenance Section. Lower attachment lift.
<b>Mower cut is rough looking.</b>	<ul style="list-style-type: none"><li>• Engine speed too slow.</li><li>• Ground speed too fast.</li><li>• Blades are dull.</li><li>• Mower drive belt slipping because it is oily or worn.</li><li>• Blades not properly fastened to arbors.</li></ul>	Set to full throttle. Slow down. Sharpen or replace blades. See Mower Blade Service Section. Clean or replace belt as necessary.  See Mower Blade Service Section.
<b>Engine stalls easily with mower engaged.</b>	<ul style="list-style-type: none"><li>• Engine speed too slow.</li><li>• Ground speed too fast.</li><li>• Mower choked with grass.</li><li>• Cutting height set too low.</li><li>• Discharge chute jamming with cut grass.</li><li>• Engine not up to operating temperature.</li><li>• Starting mower in tall grass.</li></ul>	Set to full throttle. Slow down. Clean out mower deck. Cut tall grass at maximum cutting height during first pass. Cut grass with discharge pointing toward previously cut area. Run engine for several minutes to warm-up. Start the mower in a cleared area.
<b>Excessive mower vibration.</b>	<ul style="list-style-type: none"><li>• Blade mounting bolts are loose.</li><li>• Mower blades, arbors, or pulleys are bent.</li><li>• Mower blades are out of balance.</li><li>• Mower choked with grass.</li></ul>	Tighten 204 ft. lbs.  Check and replace as necessary.  Remove, sharpen, and balance blades. See Mower Blade Service Section. Clean out mower deck.
<b>Excessive belt wear or breakage.</b>	<ul style="list-style-type: none"><li>• Bent or rough pulleys.</li><li>• Using incorrect belt.</li><li>• Excessive debris under cover.</li></ul>	Repair or replace. Replace with correct belt. Remove covers and clean out mower deck.
<b>Mower drive belt slips or fails to drive.</b>	<ul style="list-style-type: none"><li>• Idler pulley spring broken or not properly attached.</li><li>• Excessive debris under covers.</li><li>• Mower drive belt broken.</li></ul>	Repair or replace as needed.  Clean out mower deck. Replace drive belt.

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## SPECIFICATIONS - 60" MOWER DECK

<b>Tractor Required</b>	Mahindra Max 24
<b>Cutting Width</b>	60 inches
<b>Overall Width</b>	74 inches
<b>Cutting Height Range</b>	2 to 4 inches
<b>Deck Shell Thickness</b>	10 Gauge (.1345 inches) Grade 50 Steel
<b>Spindle Speed at 2800 RPM</b>	3150 RPM
<b>Blade Tip Speed</b>	17,350 Feet per Minute
<b>Number of Blades</b>	3
<b>Blade Length</b>	21 inches
<b>Blade Width</b>	2-1/2 inches
<b>Blade Thickness</b>	1/4 inches
<b>Shipping Weight of Base 60" Deck and Mounting</b>	411 pounds

Specifications may vary depending on tractor model and are subject to change without notification.

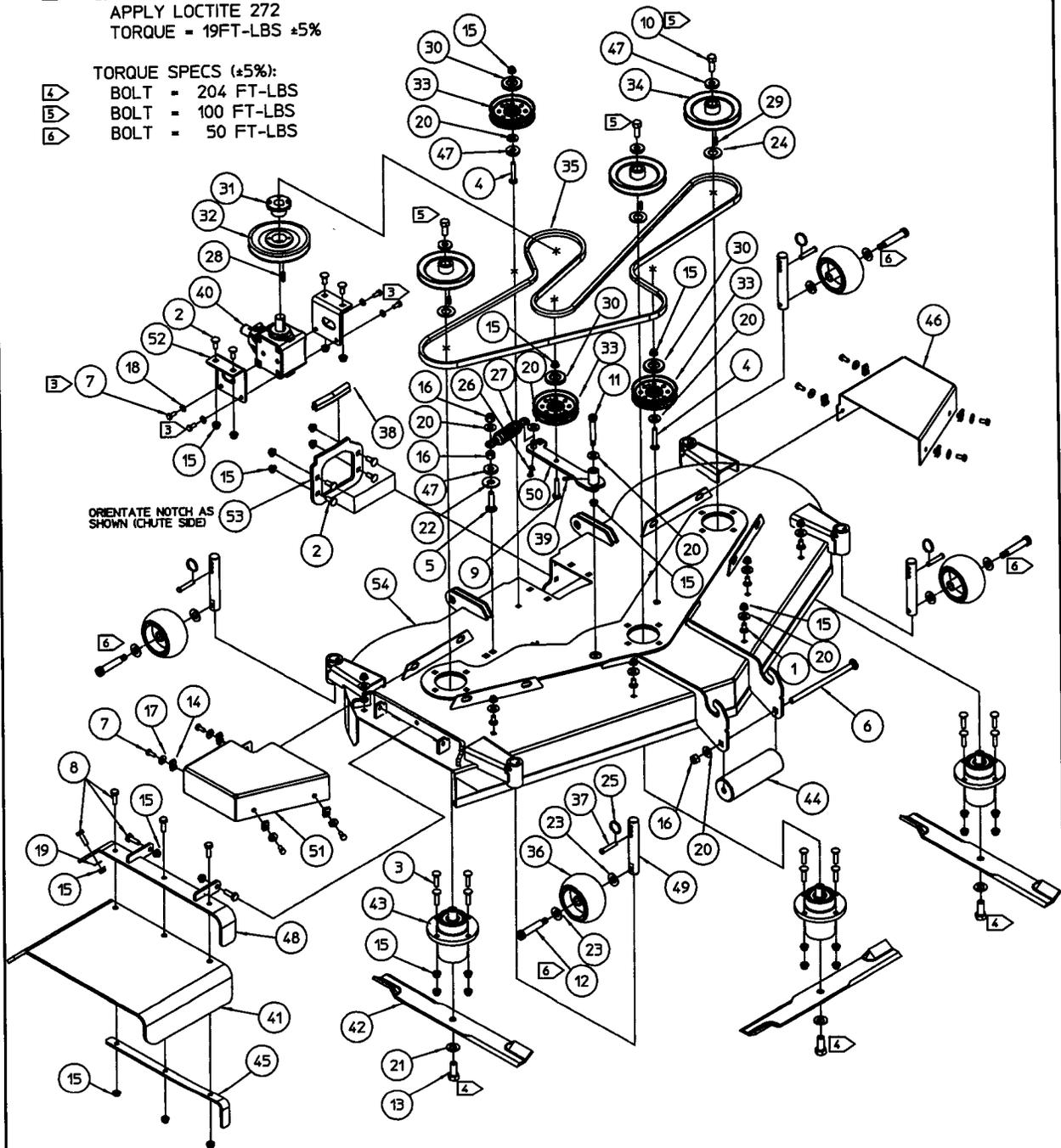
Tractors must be equipped with a Rollover Protective System (ROPS) and seat belt that will provide better safety.

# MOWER DECK SERVICE PARTS BREAKDOWN

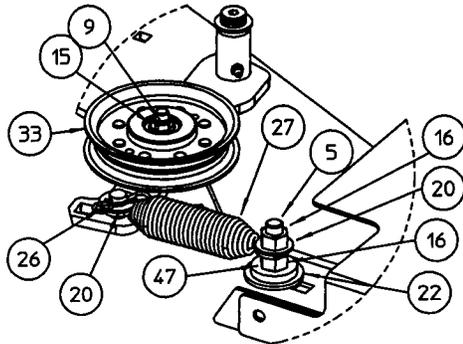
**3** GEARBOX MOUNTING BOLT:  
 APPLY LOCTITE 272  
 TORQUE = 19FT-LBS  $\pm$ 5%

**TORQUE SPECS ( $\pm$ 5%):**

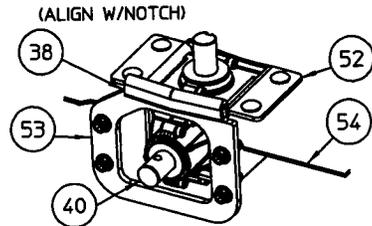
<b>4</b>	BOLT = 204 FT-LBS
<b>5</b>	BOLT = 100 FT-LBS
<b>6</b>	BOLT = 50 FT-LBS



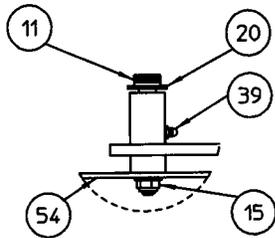
# MOWER DECK SERVICE PARTS BREAKDOWN



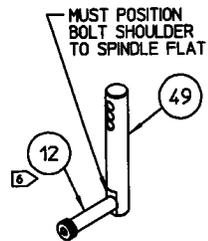
BELT TENSION SPRING MOUNTING ORIENTATION  
(INITIAL INSTALLATION: USE SPRING MOUNT HOLE NEAREST IDLER ARM)



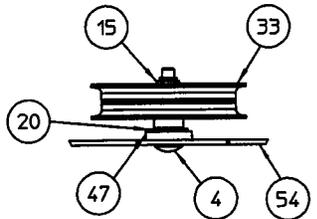
GEARBOX MOUNTING ORIENTATION



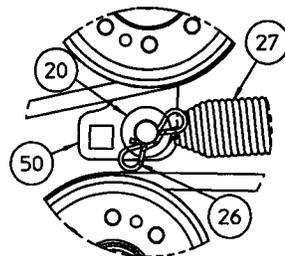
TENSION ARM MOUNTING ORIENTATION



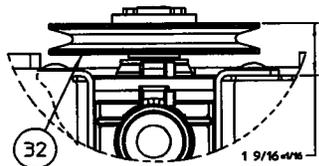
SPINDLE AND BOLT ORIENTATION  
(WHEEL AND WASHER NOT SHOWN FOR CLARITY) (4 PL)



IDLER PULLEY MOUNTING ORIENTATION



BOW PIN ORIENTATION



GEARBOX PULLEY HEIGHT SETTING FROM TOPSIDE OF DECK

## MOWER DECK SERVICE PARTS BREAKDOWN

SYM	QTY	PART	DESCRIPTION
1	6	006606	Carriage Bolt, 3/8-16 x .75
2	8	006608	Carriage Bolt, 3/8-16 x 1.0
3	12	006616	Carriage Bolt, 3/8-16 x 1.50 Gr 5 SAE
4	2	006618	Carriage Bolt, 3/8-16 x 2.25 Gr 5
5	1	006672	Carriage Bolt, 1/2-13 x 2.0
6	1	006680	Carriage Bolt, 1/2-13 x 9
7	12	006787	Hex Head Capscrew, 5/16-18 x .75 Gr 5
8	6	006855	Hex Head Capscrew, 3/8-16 x 1-1/4
9	1	006872	Hex Head Capscrew, 3/8-16 x 2.00 Gr 5
10	3	007017	Hex Head Capscrew, 1/2-20 x 1.25
11	1	007052	Shoulder Bolt, Hex 3/8-16 x .5 x 2.5
12	4	007057	Shoulder Bolt, Hex 1/2-13 x .625 x 2.75
13	3	007130	Hex Head Capscrew, 5/8-18 x 1.50 Gr 8
14	8	007432	Spring Nut, 5/16-18
15	36	007457	Nut, Hex Flange 3/8-16 GF Lock Nylon
16	3	007508	Nut, Hex 1/2-13 Gr 5 Lock
17	8	008151	Flat Washer, 5/16
18	4	008152	Flat Washer, 5/16 SAE
19	1	008158	Flat Washer, 3/8 SAE
20	12	008173	Flat Washer, 1/2 SAE
21	3	008178	Flat Washer, 5/8 Hardened SAE
22	1	008180	Flat Washer, 5/8 .687 x 1.75 x .115
23	8	008183	Flat Washer, 5/8 SAE
24	3	008197	Flat Washer, 7/8 .938 x 1.75 x .134 SAE
25	4	008547	Locking Ring
26	1	008548	Clip, Bow Tie Pin
27	1	008751	Spring, Swivel End
28	1	008920	Key, 1/4 x 1.0
29	3	008921	Key, 3/16 square
30	3	011921	Dust Cover
31	1	012749	Bushing, Mower Gear Box
32	1	012752	Pulley, Gearbox
33	3	012756	Pulley, Idler 4"
34	3	012760	Pulley, Spindle
35	1	012763	V-Belt
36	4	012969	Wheel
37	4	013459	Clevis Pin
38	1	014212	Stop, Rubber Lip
39	1	014505	Grease Fitting, Straight 1/4-28
40	1	015285	Gearbox
41	1	050005	Chute, Discharge Rubber
42	3	050008	Blade, Mower 21"
43	3	050012	Spindle Assembly
44	1	066167	Anti-Scalp Roller
45	1	451186	Chute Retainer Plate
46	1	451470	LH Belt Guard Plate with Decal
47	5	451709	Pulley Spacer Plate
48	1	451760	Chute Mount Weldment
49	4	451764	Spindle, Wheel (Threaded)
50	1	451800	Idler Arm Weldment
51	1	451890	RH Belt Guard Plate with Decal
52	2	451804	Gear Box Mount Plate
53	1	451853	Rear Upstop Plate
54	1	451770	60" Deck Weldment with Decals

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# MAHINDRA 60" MOWER MOUNT KIT INSTRUCTIONS FOR MAX 24 TRACTORS

## GENERAL DESCRIPTION

Tractor will require setup, please consult your tractor Operator's Manual for important safety precautions.

**NOTICE: Mower Mounts not compatible with Remote Valve.**

**NOTICE: Mower and Mount is not compatible with older tractor/loader combinations that would have the loader mount reinforcement (candy bracket).**

**NOTICE: Tractor will require the installation of mid-PTO Kit if one has not already been installed from the factory, before installation of mower deck.**

## TRACTORS WITHOUT LOADERS

**NOTICE: For those tractors NOT equipped with a loader, additional components are required to complete this kit installation. Please see that section within this installation manual.**

## TRACTORS WITH LOADER

**NOTICE: Remove Loader from tractor prior to installation of this kit. Refer to your Loader Operator's Manual for proper removal procedure. Some loader mounting components attached to tractor will be removed and discarded.**

**NOTICE: Tighten all hardware to the torque requirements specified in the installation instructions or torque chart.**

The terms RIGHT, LEFT, FORWARD and REAR are determined when in the correct operating position on the tractor seat.

**NOTICE: For ease of assembly do not tighten any hardware until specified in the following instructions.**

## PTO DRIVE SHAFT INSTALLATION

1. Install the PTO Drive Shaft (26) onto the mower deck gearbox input shaft. See Mount Kit parts breakdown, page 42.

2. Secure PTO Drive Shaft (26) to the gearbox input shaft using a Retaining Ring (20), and Internal Socket Head 5/16 NC x 1-3/4" Bolt (2) with Locknut (7). The Lock Nut must NOT be torqued. The Lock Nut should only be tightened until "snug" against the PTO Drive Shaft Yoke. Do not over tighten.

**NOTICE: The Retaining Ring MUST be installed onto the gear box input shaft. Failure to install Retaining Ring will allow the PTO Drive Shaft to come off in the event the Shear Bolt breaks. Severe damage to mower and tractor components will result.**

**NOTICE: Should the two halves of the PTO Drive Shaft separate, please note the following reassembly process.**

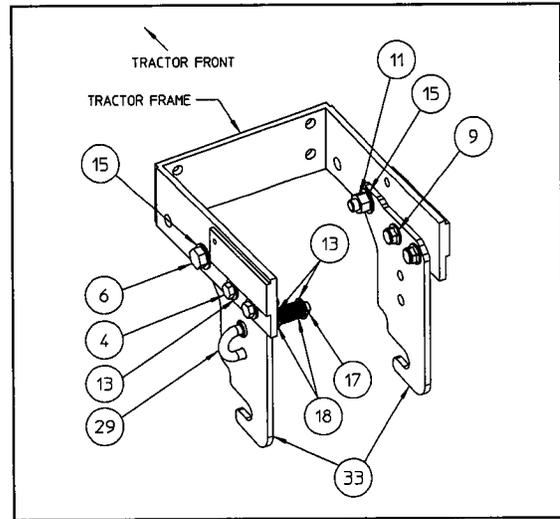
There is a blind spline between the drive shaft halves. The blind portion on the female spline on the tractor half, is located 180 degrees (opposite side) from the grease fitting. This portion should be matched up with the male spline on the mower half of the drive shaft.

Use a SAE multipurpose grease to lubricate all three fittings.

## FRONT MOUNT HANGER PLATE INSTALLATION

1. Install Front Mount Hangers (33) as shown on the inside of the tractor frame. Secure Hanger Plates using four 1/2-20 x 1-3/4 Bolts (4), four 1/2 Hardened Washers (13), four 1/2 Flange Head Lock Nuts (9), two 5/8-18 x 1-3/4 Bolts (6), four 5/8 Hardened Washers (15) and two 5/8 Nuts (11). Torque Hardware.

**NOTE:** Left Hand Front Mount Hanger has the pre-assembled spring loaded J-latch.



## MID-MOUNT WELDMENT INSTALLATION

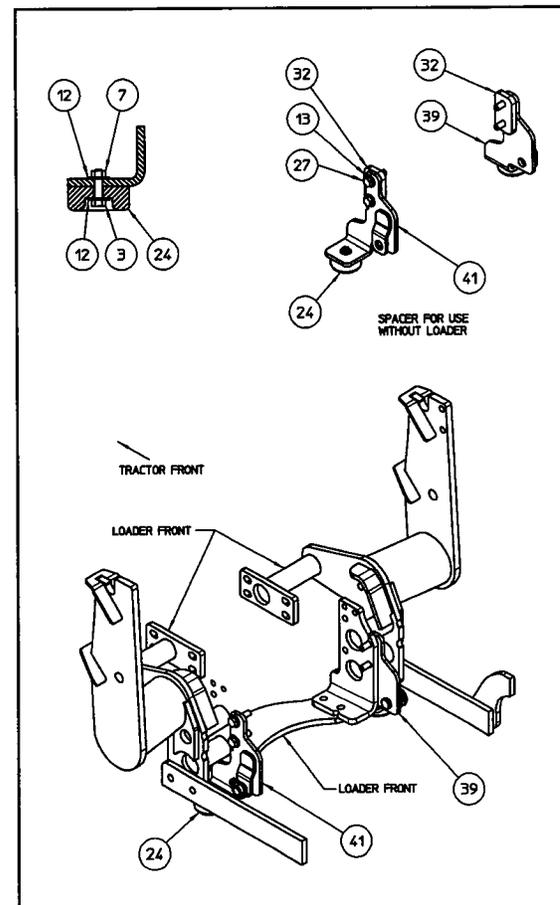
1. Assemble Rubber Bumper (24) to RH Mount Weldment (39) using one 5/16-18 x 1-1/4 Bolt (3), 5/16 Lock Nut (7) and two 5/16 Washers (12). Snug hardware.

2. Assemble Rubber Bumper (24) to LH Mount Weldment (41) using one 5/16-18 x 1-1/4 Bolt (3), 5/16 Lock Nut (7) and two 5/16 Washers (12). Snug hardware.

**NOTE:** Spacers (32) are only installed on tractors without loader. If tractor has loader installed, install Mount Weldments (39, 41) on the outside of the loader mounts.

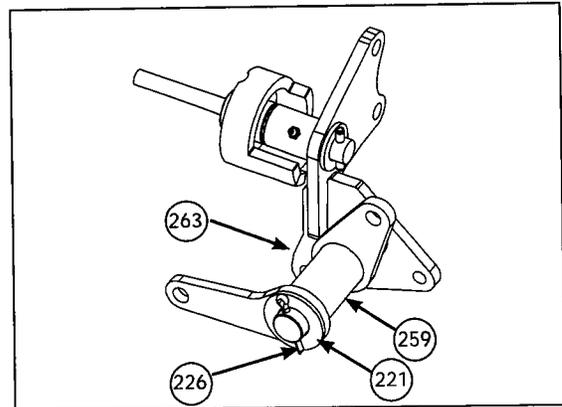
3. Assemble RH Mount Weldment (39) to right hand side of tractor with (optional) Spacer (32) located between mount and tractor. Attach using two M12 x 1.75 x 45mm Bolts (27) and 1/2 Hardened Washers (13). Torque hardware.

4. Assemble LH Mount Weldment (41) to left hand side of tractor with (optional) Spacer (32) located between mount and tractor. Attach using two M12 x 1.75 x 45mm Bolts (27) and 1/2 Hardened Washers (13). Torque hardware.

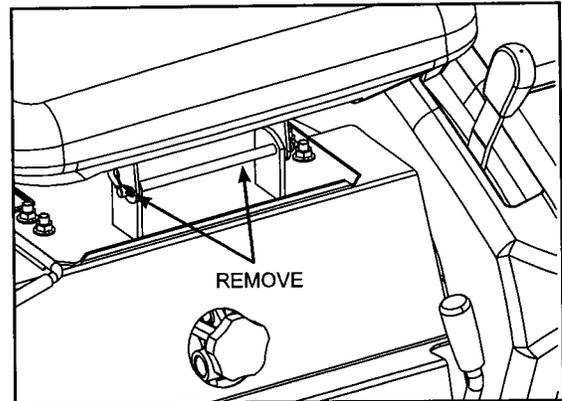


## PIVOT BASE WELDMENT INSTALLATION

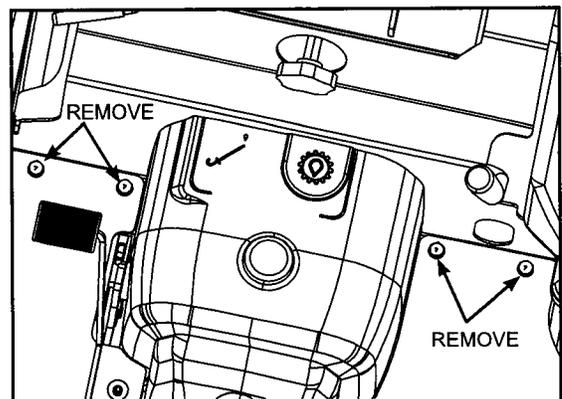
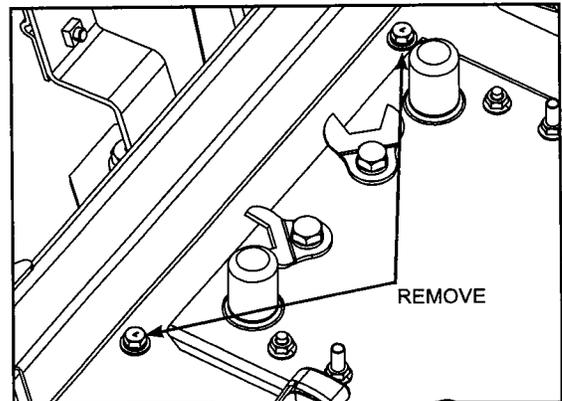
1. Assemble Crank Weldment (259) to Pivot Base Weldment (263). Secure in place using one 1" SAE Washer (221) and one Cotter Pin (226).



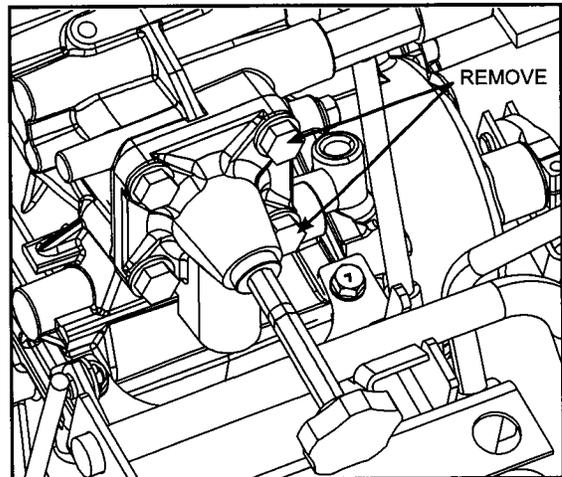
2. Remove Hairpin and Clevis Pin holding seat in place and remove seat from base.



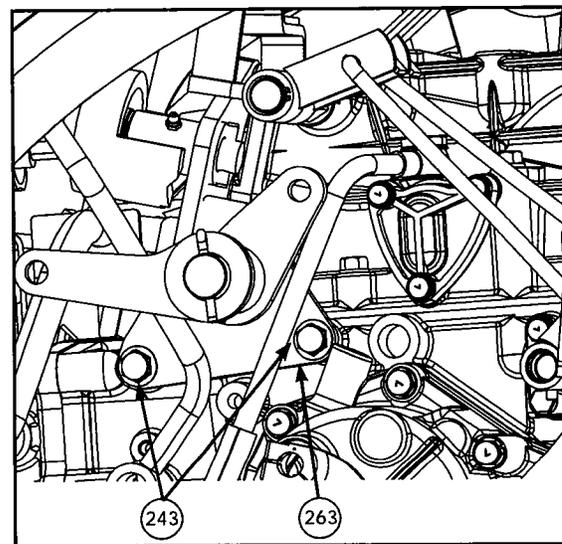
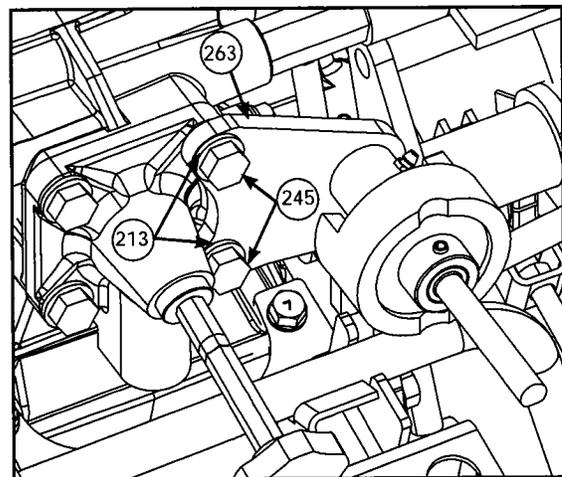
3. Remove six bolts holding seat pan in place and remove seat pan from tractor.



4. Remove the two left hand bolts on the Lowering Speed Control Knob Base.

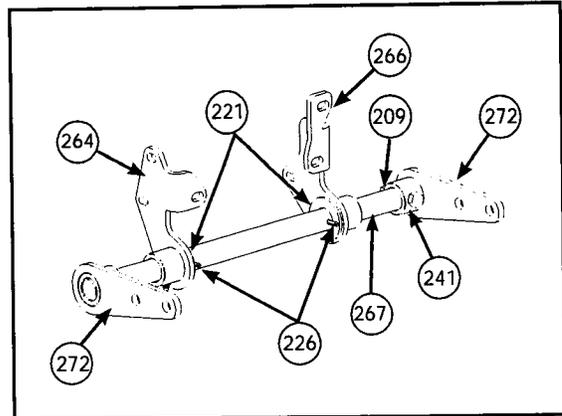


5. Install the assembled Pivot Base Weldment (263) to the Lowering Speed Control Knob Base and Transmission Housing as shown. Secure to Lowering Speed Control Knob Base using two M12 x 1.25 x 50mm Bolts (245) and two M12 SAE Hardened Washers (213). Secure to Transmission Housing using two M10 x 1.50 x 25mm Bolts (243). Torque M12 Bolts to 85 ft-lb and M10 Bolts to 50 ft-lb.

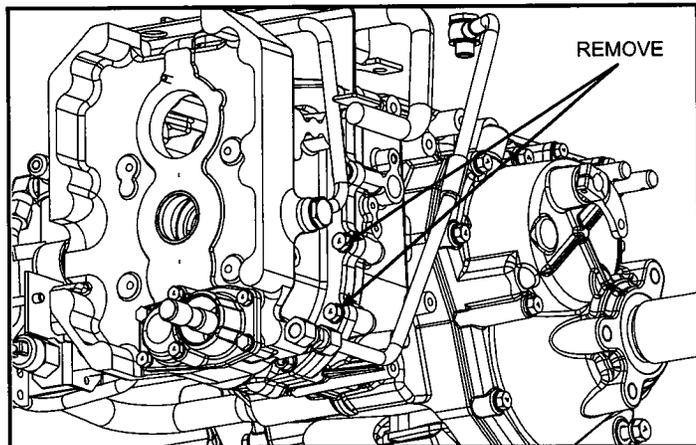
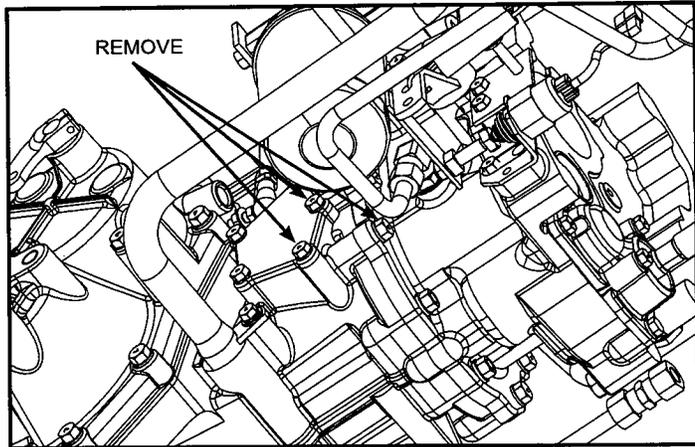


## BELL CRANK INSTALLATION

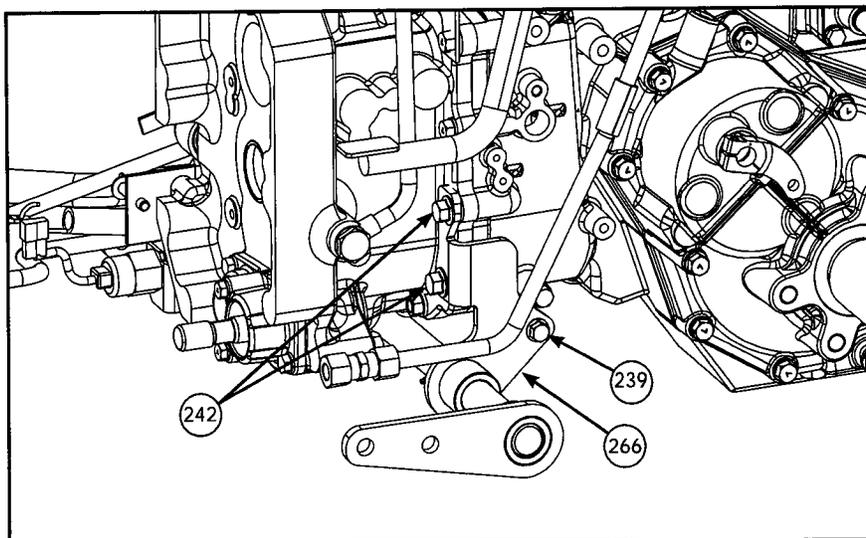
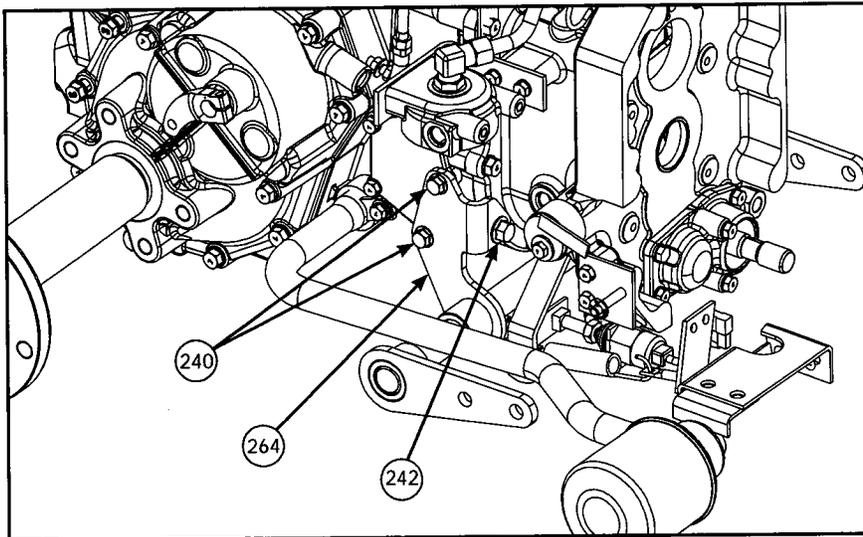
1. Preassemble Bell Crank Rod (267), Bell Cranks (272), and Right (264) and Left (266) Hand Mounting Brackets as shown. Install Cotter Pins (226) in Bell Crank Rod. Slide a 1" SAE Washer (220) on each end up to the Cotter Pin. Slide Right and Left Hand Mounting Brackets on opposite sides with the formed edges pointing towards the middle of the Rod, as shown. Slide a Bell Crank on each end, with the bushings towards the middle of the Rod. Ensuring that the holes on the Bell Cranks are aligned, secure each Bell Crank in place using one M10 x 1.25 x 50mm Bolt (241) and one M10 x 1.25 Nut (209). Torque M10 Bolts to 50 ft-lb.



2. Remove chassis bolts as shown.

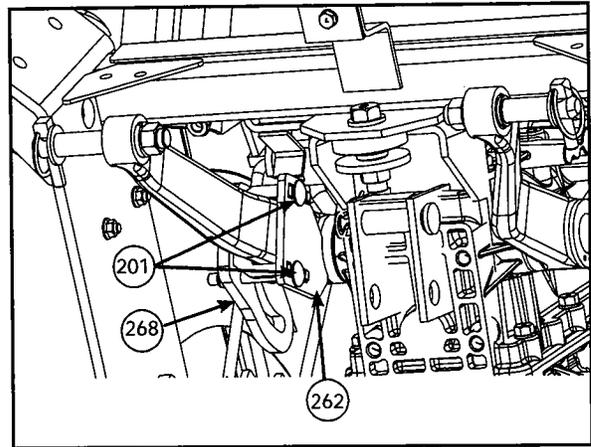
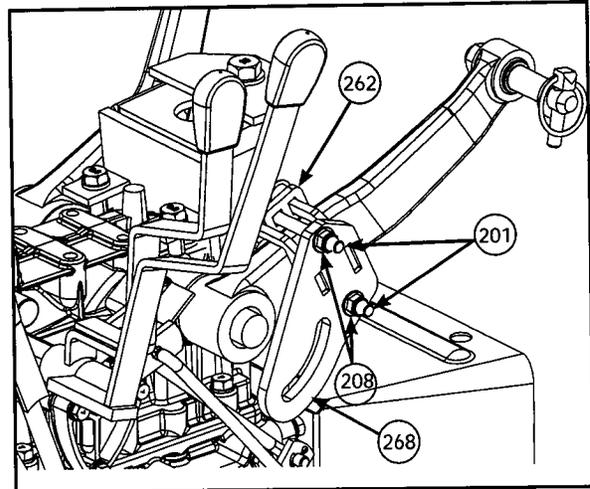


3. Install Right (264) and Left (266) Hand Bell Crank Rod Mounting Brackets as shown. Secure Right Hand Bracket in place using one M10 x 1.50 x 45mm Bolt (242) and two M8 x 1.25 x 30mm Bolts (240). Secure Left Hand Bracket in place using two M10 x 1.50 x 45mm Bolts (242) and one M8 x 1.25 x 25mm Bolt (239). Torque M10 Bolts to 50 ft-lb and M8 Bolts to 25 ft-lb.



## ROCKSHAFT BRACKET INSTALLATION

1. Install Rockshaft Bracket (268) and Base (262) over the rockshaft arm as shown, with the bracket towards the outside of the tractor, and the base towards the inside. Secure using two 3/8-16 x 3" Carriage Bolts (201) and two 3/8-16 Nylock Flange Nuts (208). Torque Hardware.

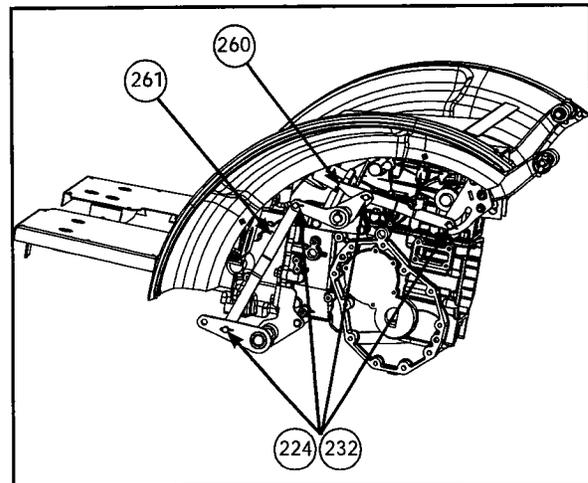


## LIFT LINKAGE INSTALLATION

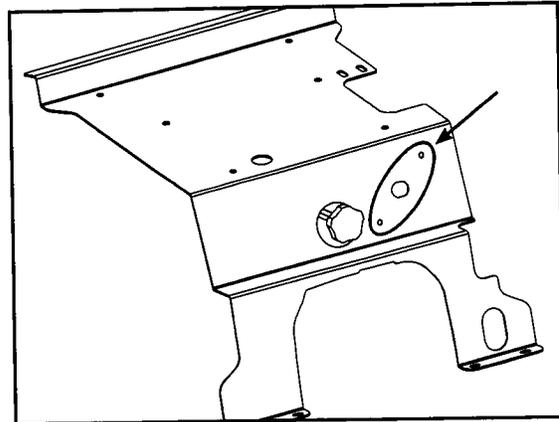
1. Install Upper (260) and Lower (261) Linkages as shown. Secure each rod in place using one 1/2 x 1" Clevis Pin (232) and one Cotter Pin (224) on each end.

2. After Linkages are installed, reinstall Seat Pan using original hardware. Torque hardware.

3. Reinstall Seat using original hardware.

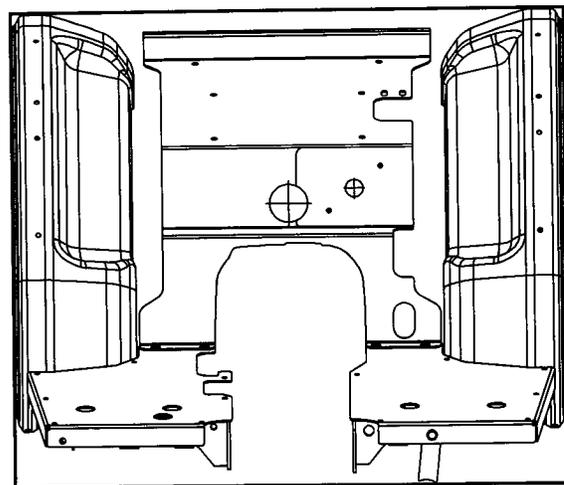


**NOTICE:** Tractors that do not have 3 holes as shown on seat pan will require to be drilled for mount kit installation.



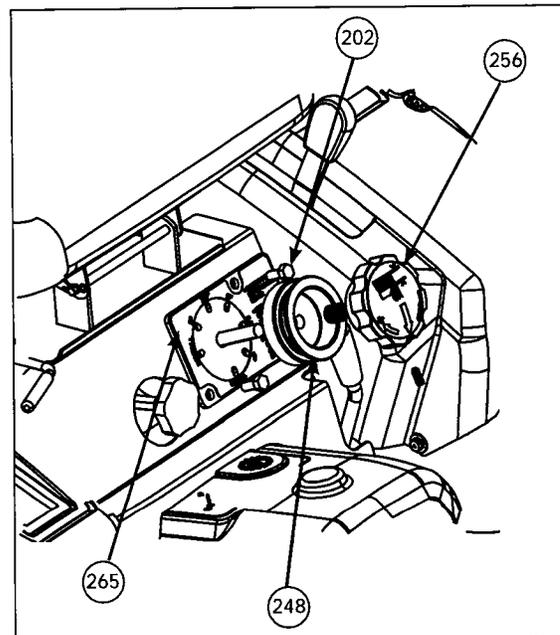
#### TEMPLATE USE

1. Cut template out located in back of manual, page 53.
2. Tape template onto seat pan as shown.
3. Use a punch to mark the three hole locations.
4. Drill holes to size as noted on template.



#### HEIGHT OF CUT KNOB INSTALLATION

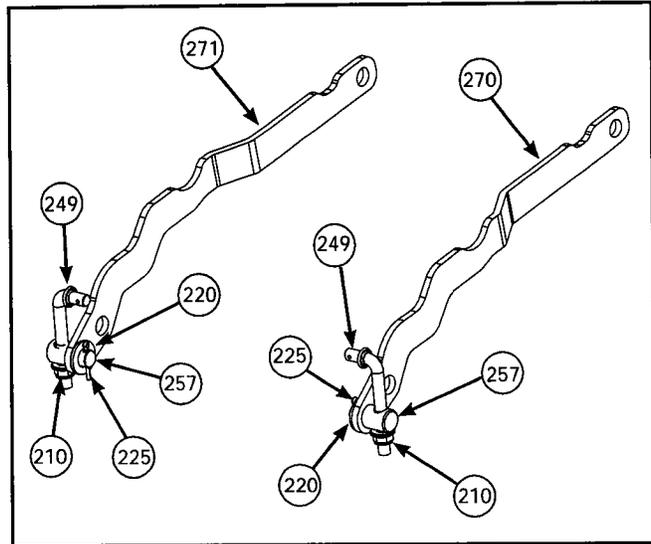
1. Install HOC Index Plate (265) onto seat plate and retain with two 5/16 x 3/4 self-threading Screws (202).
2. Slide HOC Locking Collar (248) over shaft and seat against HOC Index Plate.
3. Slide Spring (227) onto shaft and seat against HOC Locking Collar.
4. Partially thread Set Screw (222) into HOC Knob (236).
5. Install HOC Knob (236) onto shaft aligning set screw against shaft flat. Position knob so button edge of set screw bore is aligned to top face of HOC Locking Collar. Tighten set screw.



## MID LINKAGE INSTALLATION

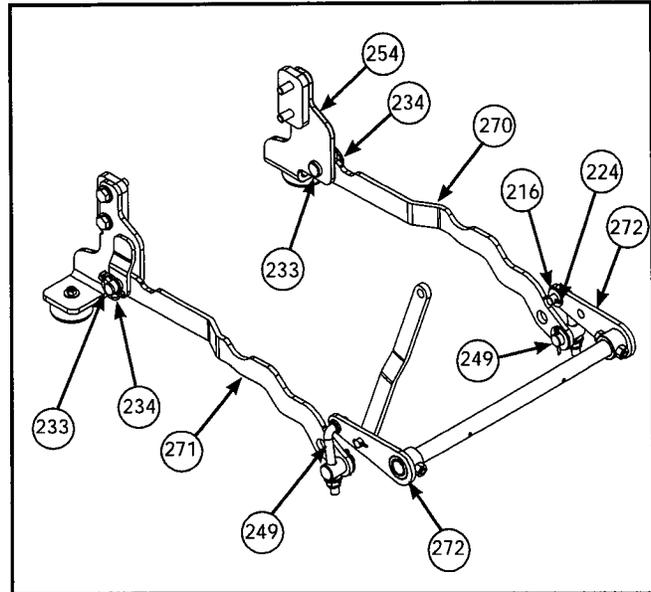
1. Preassemble Lift Pins (257) to Right (270) and Left (271) Hand Links as shown, with the Pin facing the outside of the Link. Secure using one  $\frac{3}{4}$ " SAE Hardened Washer (220) and one Cotter Pin (225).

2. Preassemble Lift Link (249) into Lift Pin (257) as shown. Secure with  $\frac{1}{2}$ -20 Nylock Flange Nut (210). Tighten Nut until  $\frac{1}{2}$ " of thread is protruding through Nut.



3. Connect Right (270) and Left (271) Hand Links to Right (254) and Left (256) Hand Mid Mount Weldments, as shown, using one  $\frac{3}{4}$  x 1  $\frac{3}{4}$  Clevis Pin (233) and one Lynch Pin (234).

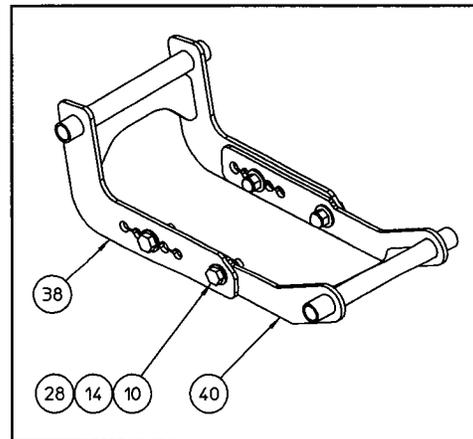
4. Connect preassembled Lift Links (249) to Bell Crank Weldments (272), as shown, using one  $\frac{1}{2}$ " SAE Washer (216) and one Cotter Pin (224) on each side.



## LOWER MOUNT LINK ASSEMBLY

1. Preassemble Lower Link Weldment (40) and Front Link Weldment (38) using four M14 x 2.00 x 40mm Bolts (28), eight 9/16 SAE Hardened Washers (14) and Lock Nuts (10) as shown. Final adjustments will be made when the Mower Deck is installed onto the tractor. Snug hardware. Do not tighten at this time.

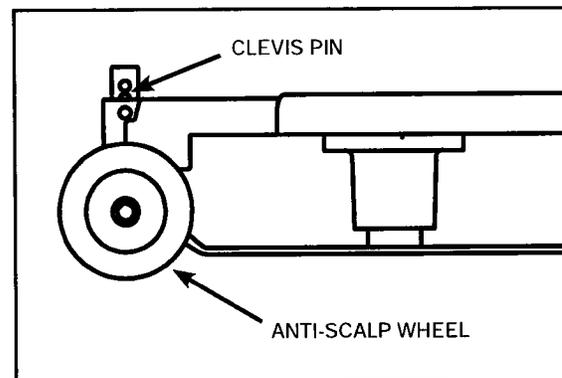
**NOTE:** Insert front bolts into center set of holes of the two halves. This is a starting point for front to rear pitch of the mower deck.



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## MOWER DECK ADJUSTMENT - DECK LEVELNESS AND PITCH

1. Park tractor on level ground.
2. Check tire pressures, make sure tire pressures are equal on right and left sides of same axle.
3. Start the tractor and slowly move the 3-point hitch control lever rearward until 3-point hitch arms are at full lift height.
4. Rotate knob to 4" cut of height position.
5. Lower 3-point hitch arms until deck stops lowering. Upper Link will be in contact with Height of Cut Cam at this time.
6. Place all four anti-scalp wheels in the middle hole position.



7. Adjust nut on lift link to level the deck side to side.
8. To check and adjust side to side levelness, place a 2 x 4 inch piece of wood horizontally under the rear anti-scalp wheels. Adjust the nuts on the lift links until you can slide the 2 x 4 under the wheel with wheel slightly touching.

**NOTE:** *The adjustment of the nuts on the lift links may be uneven to obtain the correct height adjustment.*