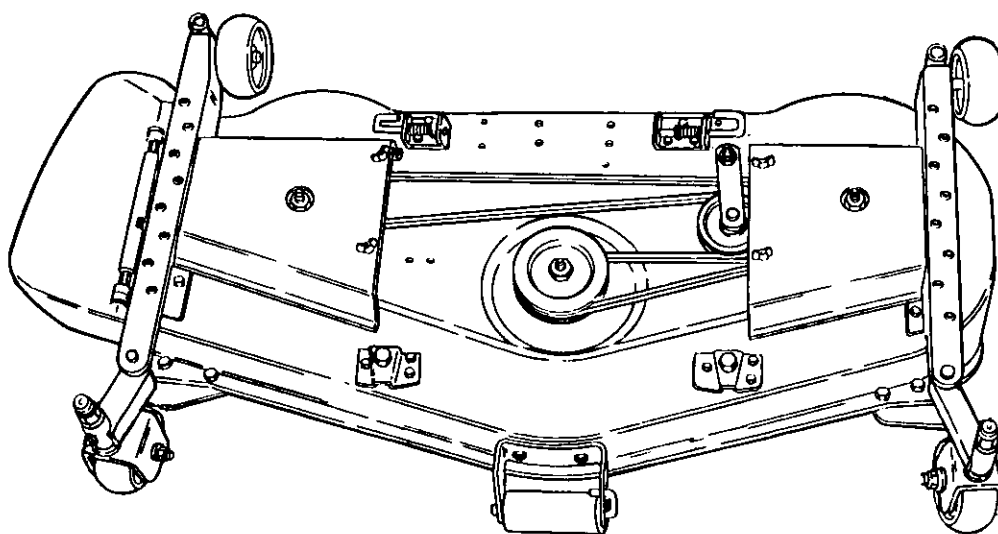


Cub Cadet

Power Equipment

Owner's Manual

48" GARDEN TRACTOR DECK



INSTALLATION AND MAINTENANCE INSTRUCTIONS

Model Number 317

**Important:
Read Safety Rules and Instructions Carefully**

Thank you for purchasing an American-built product

CUB CADET CORPORATION • P.O. BOX 368023 • CLEVELAND, OHIO 44136-9723

LIMITED WARRANTY

**TWO-YEAR RESIDENTIAL
ONE-YEAR COMMERCIAL**

Proper maintenance of your Cub Cadet equipment is the owner's responsibility. Follow the instructions in your owner's manual for correct lubricants and maintenance schedule. Your Cub Cadet dealer carries a complete line of quality lubricants and filters for your equipment's engine, transmission, chassis and attachments.

RIDING MOWERS, LAWN TRACTORS, GARDEN TRACTORS, CUB CADET ATTACHMENTS AND HOME MAINTENANCE PRODUCTS

This limited warranty for residential users, covers any defect in materials or workmanship in your Cub Cadet equipment for two years from the date of purchase for the first user purchaser.

We will replace or repair any part or parts without charge through your authorized Cub Cadet dealer.

Batteries have a one-year prorated limited warranty with 100% replacement during the first three months.

V-belts for either the traction drive or any attachments are covered for one year only.

Cub Cadet equipment used commercially is warranted for one year only.

(Commercial use is defined as either having hired operators or used for income producing purpose.)

ITEMS NOT COVERED

The warranty does not cover routine maintenance items such as lubricants, filters (oil, fuel, air and hydraulic), cleaning, tune-ups, brake and/or clutch inspection, adjustments made as part of normal maintenance, blade sharpening, set-up, abuse, accidents and normal wear. It does not cover incidental costs such as transporting your equipment to and from the dealer, telephone charges or renting a product temporarily to replace a warranted product.

There is no other express warranty.

HOW TO OBTAIN SERVICE

Contact your authorized Cub Cadet servicing dealer who sold you your Cub Cadet equipment. If this dealer is not available, see the Consumer Yellow Pages under "lawn mowers" for the name of a dealer near you.

If you need further assistance in finding an authorized Cub Cadet servicing dealer, contact:

**Cub Cadet Corporation
Post Office Box 368023
Cleveland, Ohio 44136**

HOW DOES STATE LAW APPLY?

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

CONTENTS

Section		Page
	Warranty	2
	Safe Operation Practices	3
	Product Graphics	6
	Model Plate Location	6
	To The Owner	7
I	Deck and Installation Components	7
II	Lift Frame Assembly Preparation	9
III	Lift Frame and Deck Installation	11
IV	Adjustments	15
V	Maintenance	17
	Lubrication Guide	20

IMPORTANT

SAFE OPERATION PRACTICES



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR UNIT. WHEN YOU SEE THIS SYMBOL – **HEED ITS WARNING.**



DANGER:

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in injury. This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.



I. GENERAL OPERATION

1. Read, understand and follow all instructions in the manual and on the machine before starting. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Only allow responsible individuals familiar with the instructions to operate the machine. Know controls and how to stop the machine quickly.
3. Do not put hands or feet under cutting deck or near rotating parts.
4. Clear the area of objects such as rocks, toys, wire, etc. which could be picked up and thrown by the blade. A small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury to you or a bystander. To help avoid a thrown objects injury, keep children, animals, bystanders and helpers at least 75 feet from the mower while it is in operation. Always wear safety glasses with side shields or safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects. Stop the blade(s) when crossing gravel drives, walks or roads.
5. Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
6. Never carry passengers.
7. Disengage blade(s) before shifting into reverse and backing up. Always look down and behind before and while backing.
8. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the chute guard in place.
9. Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.

10. Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set park brake, stop engine and remove key before dismounting.
11. Turn off blade(s) when not mowing.
12. Stop engine and wait until blade(s) comes to a complete stop before (a) removing grass catcher or unclogging chute, or (b) making any repairs, adjusting or removing any grass or debris.
13. Mow only in daylight or good artificial light.
14. Do not operate the machine while under the influence of alcohol or drugs.
15. Watch for traffic when operating near or crossing roadways.
16. Use extra care when loading or unloading the machine into a trailer or truck. This unit should not be driven up or down a ramp onto a trailer or truck under power, because the unit could tip over causing serious personal injury. The unit must be pushed manually on a ramp to load or unload properly.
17. Never make a cutting height adjustment while the engine is running if operator must dismount to do so.
18. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals or sneakers.
19. Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
20. Disengage all attachment clutches, thoroughly depress the brake pedal and shift into neutral before attempting to start engine.
21. Your mower is designed to cut normal residential grass of a height no more than 10". Do not attempt to mow through unusually tall, dry grass (e.g. pasture) or piles of dry leaves. Debris may build up on the mower deck or contact the engine exhaust presenting a potential fire hazard.

II. SLOPE OPERATION

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. **All slopes require extra caution.** If you cannot back up the slope or if you feel uneasy on it, do not mow it.

For your safety, use the slope gauge included as part of the tractor owner's manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

DO:

Mow up and down slopes, not across.

Remove obstacles such as rocks, limbs, etc.

Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. **Tall grass can hide obstacles.**

Use slow speed. Choose a low enough gear so that you will not have to stop or shift while on the slope. Always keep machine in gear when going down slopes to take advantage of engine braking action.

Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.

Use extra care with grass catchers or other attachments. These can change the stability of the machine.

Keep all movement on the slopes **slow and gradual**. Do not make sudden changes in speed or direction. Rapid engagement or braking could cause the front of the machine to lift and rapidly flip over backwards which could cause serious injury.

Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly **straight** down the slope.

DO NOT:

Do not turn on slopes unless necessary; then, turn slowly and gradually downhill, if possible.

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

Do not mow on wet grass. Reduced traction could cause sliding. **Do not** try to stabilize the machine by putting your foot on the ground.

Do not use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. **Never** assume that children will remain where you last saw them.

1. Keep children out of the mowing area and in watchful care of an adult other than the operator.
2. Be alert and turn machine off if children enter the area.
3. Before and when backing, look behind and **down** for small children.
4. Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
5. Never allow children under 14 years old to operate the machine. Children 14 years and over should only operate machine under close parental supervision and proper instruction.
6. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure your vision of a child or other hazard.
7. Remove key when machine is unattended to prevent unauthorized operation.

IV. SERVICE

1. Use extreme care in handling gasoline and other fuels. They are extremely flammable and the vapors are explosive.
 - A. Use only an approved container.
 - B. Never remove fuel cap or add fuel with the engine running. Allow engine to cool at least two minutes before refueling.
 - C. Replace fuel cap securely and wipe off any spilled fuel before starting the engine as it may cause a fire or explosion.
 - D. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
 - E. Never refuel the machine indoors because fuel vapors will accumulate in the area.
 - F. Never store the fuel container or machine inside where there is an open flame or spark, such as a gas hot water heater, space heater or furnace.
2. Never run a machine inside a closed area.
3. To reduce fire hazard, keep the machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage. Allow machine to cool at least 5 minutes before storing.
4. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
5. Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also visually inspect blade for damage (e.g., excessive wear, bent, cracked). Replace with blade which meets original equipment specifications.
6. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
7. Never tamper with safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
8. After striking a foreign object, stop the engine, remove the wire from the spark plug and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
9. Grass catcher components are subject to wear, damage and deteriorate, which could expose moving parts or allow objects to be thrown. For your safety protection, frequently check components and replace with manufacturer's recommended parts when necessary.
10. Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing blade(s).
11. Check brake operation frequently. Adjust and service as required.
12. Muffler, engine and belt guards become hot during operation and can cause a burn. Allow to cool down before touching.
13. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
14. Observe proper disposal laws and regulations. Improper disposal of fluids and materials can harm the environment and the ecology.
 - A. Prior to disposal, determine the proper method to dispose of waste from your local Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.
 - B. Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them. Properly dispose of the containers immediately following the draining of fluids.

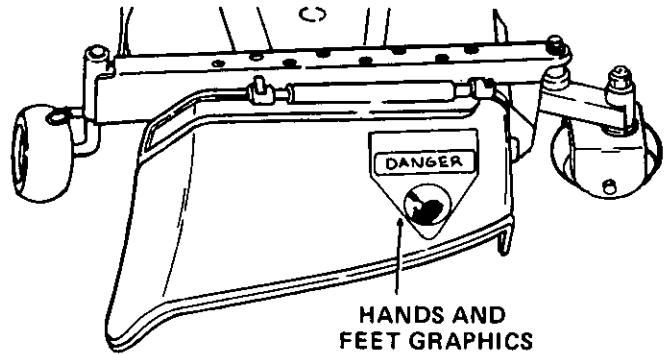
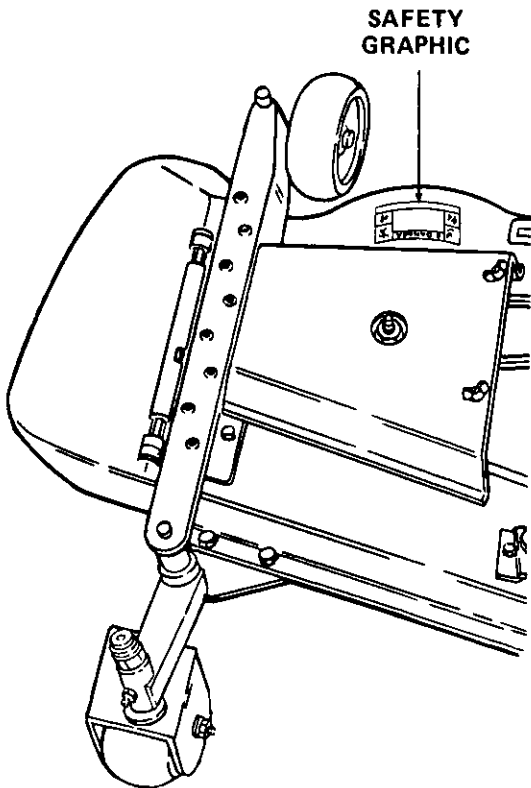
- C. DO NOT pour oil or other fluids into the ground, down a drain or into a stream, pond, lake or other body of water. Observe Environmental Protection Agency regulations

when disposing of oil, fuel, coolant, brake fluid, filters, batteries, tires and other harmful waste.

		<p>WARNING - YOUR RESPONSIBILITY</p> <p>Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.</p>
<p>OWNER'S MANUAL</p>	<p>SAFETY LABEL</p>	

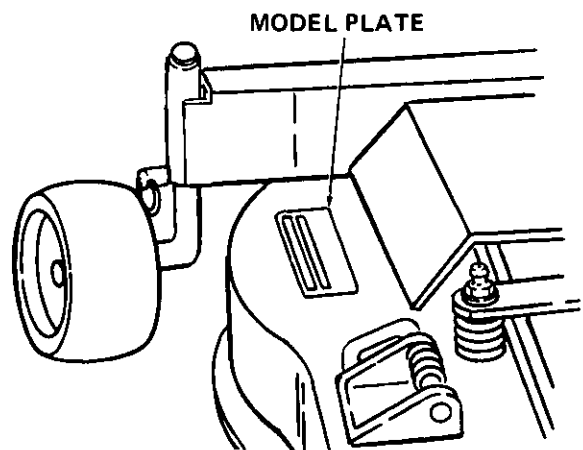
PRODUCT GRAPHICS

Keep safety product graphics (decals) clean. Replace any safety graphic that is damaged, destroyed, missing, painted over or can no longer be read. Replacement safety graphics are available through your dealer.



MODEL PLATE LOCATION

Model plate is on the left hand side of the mower deck.



TO THE OWNER

Contained in this manual are instructions covering installation and maintenance of the *Cub Cadet* 48 inch mower deck, Model 317.

Maintenance instructions outlined in this manual will provide for a continued high level of performance and longevity from the mower deck.

Throughout this manual, the reader will be directed to refer to various figures. These figures depict and identify parts which are relevant to the associated text. Careful attention to these figures will greatly assist the

reader during both the installation and the maintenance process.



LEFT and RIGHT indicate the left and right sides of the tractor when facing forward in the driver's seat. Reference to FRONT indicates grille end of the tractor; to REAR the drawbar end.

SECTION I. DECK AND INSTALLATION COMPONENTS



WARNING

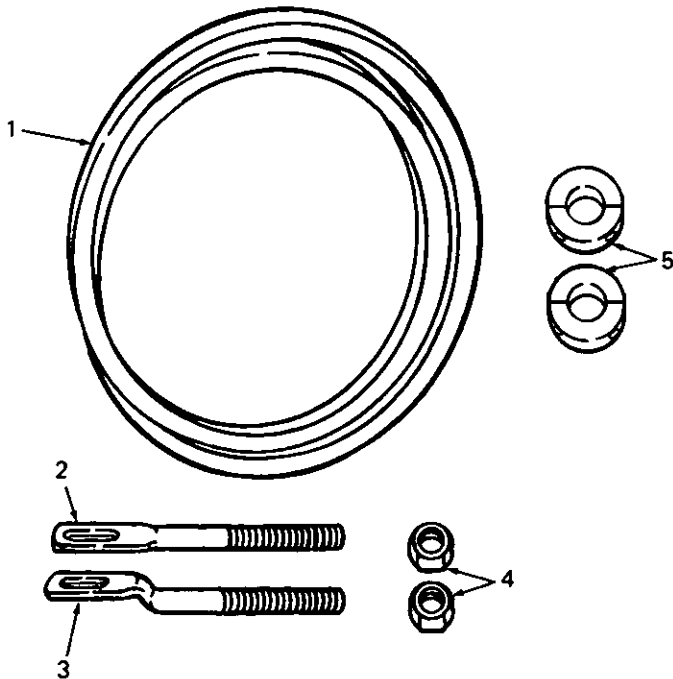
When handling the mower deck, be careful not to cut yourself on the sharp blades.

Installation of the 48 inch deck requires two separate packages: the appropriate adapter package (323 for

standard garden tractor, or 322 for super garden tractors) shown in Figure 1 and the deck components (317) shown in Figure 2.

Remove components from the packages to ensure that all parts are present and to acquaint yourself with parts nomenclature.

ADAPTER PACKAGE 322 Super Garden Tractors



ADAPTER PACKAGE 323 Standard Garden Tractors

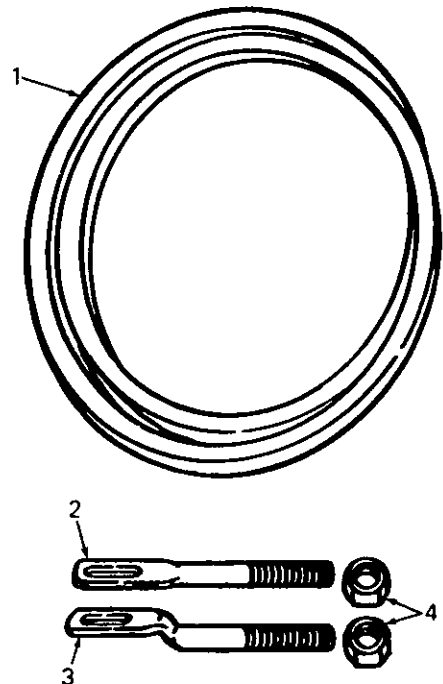


Figure 1

1. Belt
2. Adjustable Lift Link
3. Offset Adjustable Lift Link
4. Hex Center Lock Nut
5. Stop Collar

1. Belt
2. Adjustable Lift Link
3. Offset Adjustable Lift Link
4. Hex Center Lock Nut

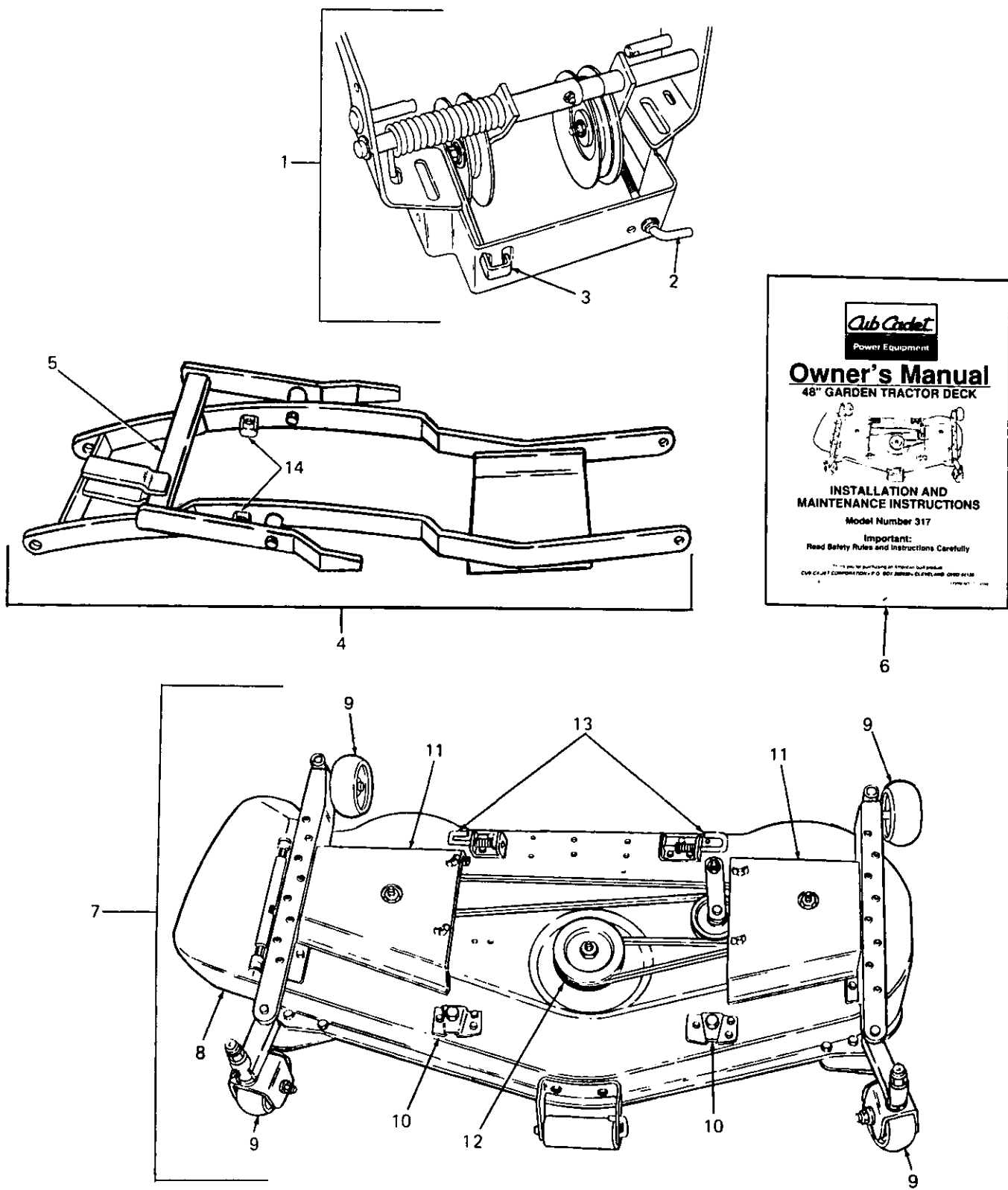


Figure 2

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> 1. Front Hanger Assembly (remove from tractor) 2. Idler Adjusting Rod 3. Idler Ratchet 4. Lift Frame 5. Center Frame Bar | <ul style="list-style-type: none"> 6. Owner's Manual 7. Mower Deck 8. Deflector Chute 9. Ball Wheel | <ul style="list-style-type: none"> 10. Front Lift Bracket 11. Belt Shield 12. Double Belt Pulley 13. Support Pin 14. Ferrule |
|--|---|---|

SECTION II. LIFT FRAME ASSEMBLY PREPARATION

A. LIFT FRAME PREPARATION FOR STANDARD GARDEN TRACTORS (USE ADAPTER KIT 323)

1. Attach front hanger to the lift frame with shoulder bolts and hex flanged locknuts. Refer to Figure 3 to determine proper mounting hole. Head of shoulder bolts is positioned to inside of frame. Torque nuts to 33 to 37 ft-lbs. (45 to 50 N-m).

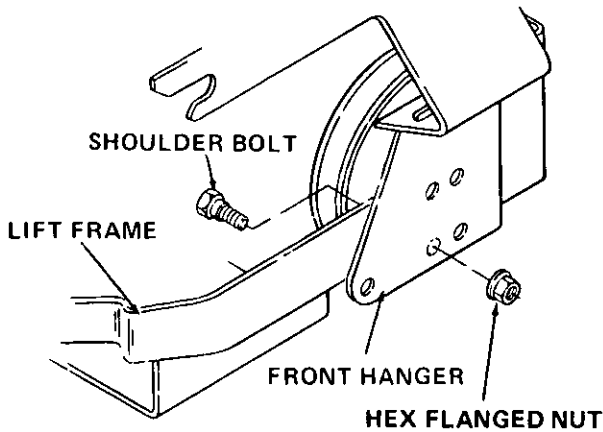


Figure 3

2. Place adjustable lift link and offset adjustable lift link in a ferrule and secure each lift link with a hex center lock nut until 1/2 inch of threads are visible at bottom of each lift link. Refer to Figure 4.
3. Install ferrule with adjustable lift link to right side of lift frame (in rear mounting hole as shown) with lift link on outside of frame. Refer to Figure 4.
4. Install ferrule with offset adjustable lift link to left side of lift frame (in rear mounting hole as shown) with lift link on inside of frame. Refer to Figure 4.
5. Proceed to Section III.

B. LIFT FRAME PREPARATION FOR SUPER GARDEN TRACTORS (USE ADAPTER KIT 322)

1. Attach front hanger to the lift frame with shoulder bolts and hex flanged locknuts. Refer to Figure 5 to determine proper mounting hole. Head of shoulder bolts is positioned to inside of frame. Torque nuts to 33 to 37 ft-lbs. (45 to 50 N-m).

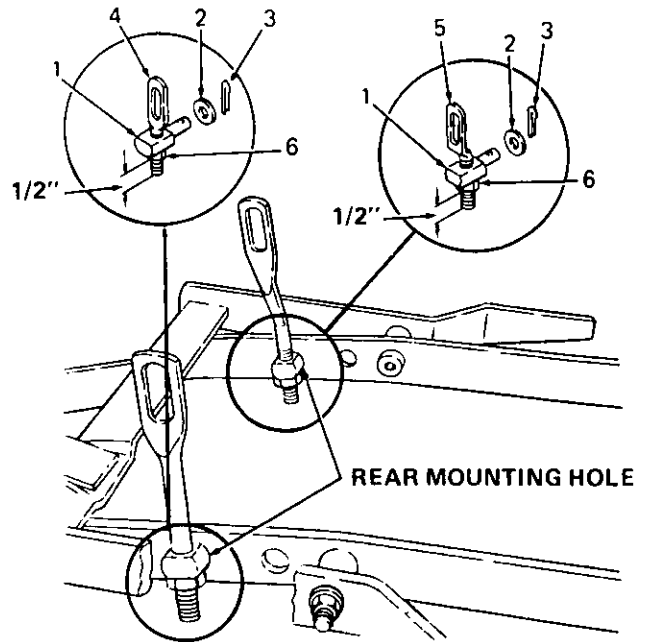


Figure 4

1. Ferrule
2. Flat Washer
3. Cotter Pin
4. Adjustable Lift Link
5. Offset Adjustable Lift Link
6. Hex Center Lock Nut

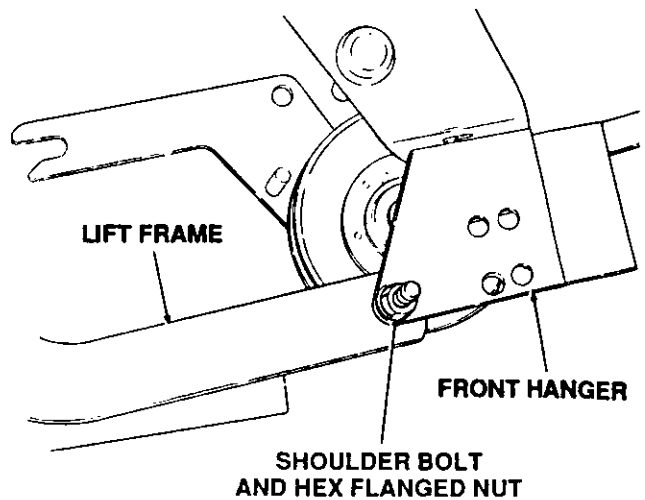


Figure 5

2. Place adjustable lift link and offset adjustable lift link in a ferrule and secure each lift link with a hex center lock nut until 1/2 inch of threads are visible at bottom of each lift link. Refer to Figure 6.
3. Install ferrule with adjustable lift link to right side of lift frame (in front mounting hole as shown) with lift link on outside of frame. Refer to Figure 6.
4. Install ferrule with offset adjustable lift link to left side of lift frame (in front mounting hole as shown) with lift link on inside of frame. See Figure 6.

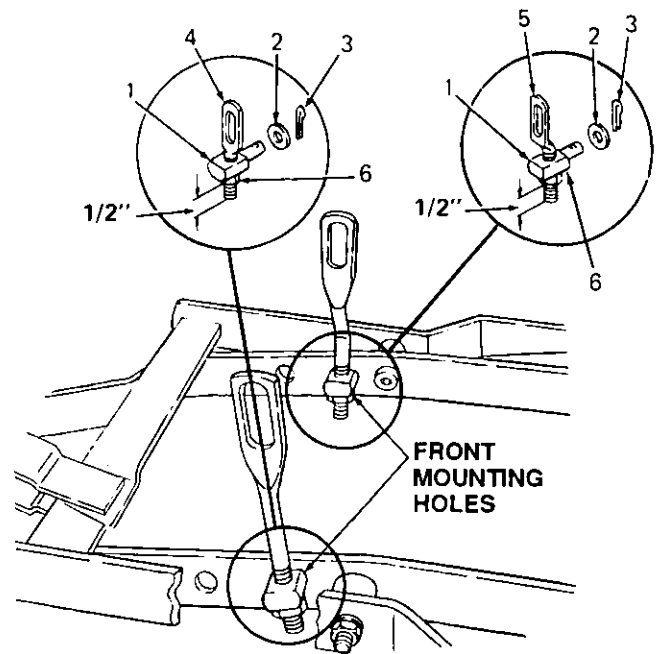


Figure 6

- | | |
|-----------------------|---------------------------------------|
| 1. Ferrule | 4. Adjustable Lift Link |
| 2. Flat Washer | 5. Offset Adjustable Lift Link |
| 3. Cotter Pin | 6. Hex Center Lock Nut |

SECTION III. LIFT FRAME AND DECK INSTALLATION



WARNING

Before installing the lift frame or mower deck, stop the tractor engine, disengage the PTO, place all controls in neutral and engage the brake lock.



CAUTION

The tractor should be placed on a firm and level surface prior to installing the lift frame or mower deck.

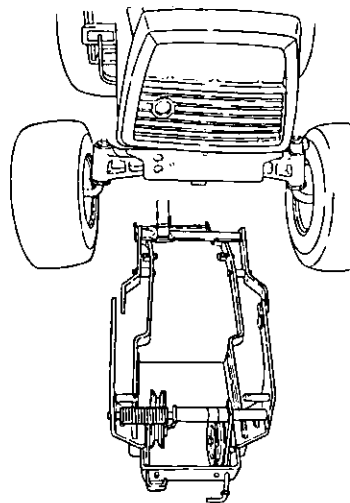


Figure 8

A. LIFT FRAME INSTALLATION

Install the lift frame assembly as follows:

1. For **Super Garden Tractors only** loosely attach stop collars from Kit 322 onto brake shaft as shown in Figure 7.

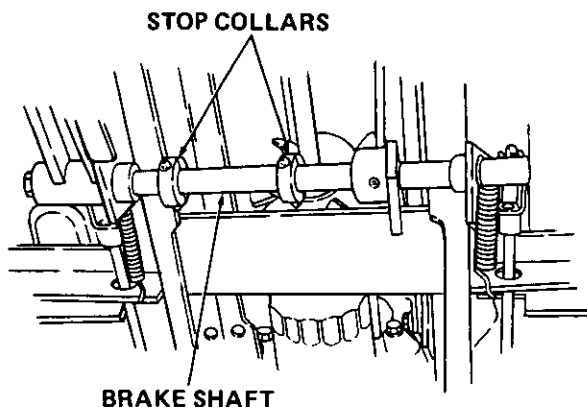


Figure 7

2. Position the lift frame assembly in front of the tractor with the front hanger assembly facing away from the tractor grille as shown in Figure 8.
3. While holding the quick latch rod downward in the unlocked position, slide the mower frame assembly under the tractor.
4. Lift the front of the lift frame assembly and push the front hangers against the shoulder bolts. Refer to Figure 9.
5. Push the quick latch pins into the latch receiver as shown in Figure 10. The quick latch handle will lock up in place when the quick latch pins are installed.

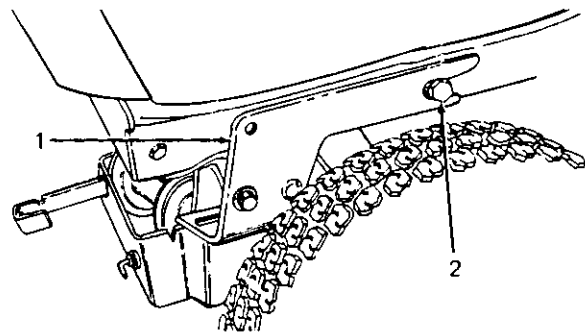


Figure 9

Left Side

1. Front Hanger
2. Shoulder Bolt

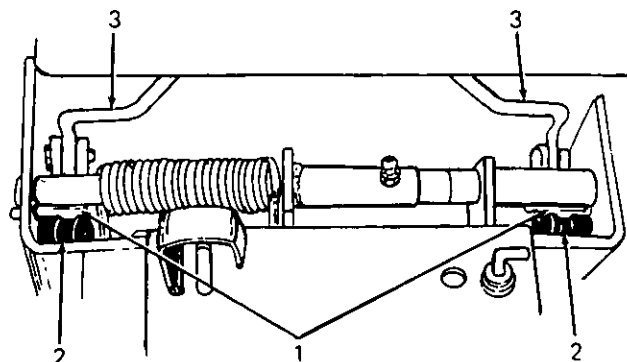


Figure 10

Front of Tractor

1. Quick Latch Pins
2. Latch Receivers
3. Quick Latch Handle

- On **Standard Garden Tractors only**, engage the center frame bar with the cross shaft located under the tractor. Refer to Figure 11.

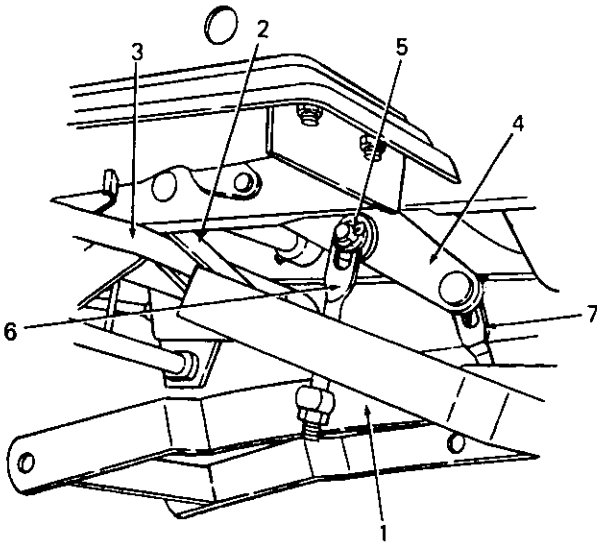


Figure 11

- Lift Frame Assembly
- Center Frame Bar
- Cross Shaft
- Rockshaft Lift Arm
- Cotter Pin and Flat Washer
- Adjustable Lift Link
- Offset Adjustable Lift Link

- On **Super Garden Tractors only**, engage center frame bar with the brake shaft as shown in Figure 12.
- Slide stop collars against center frame bar fork and tighten. See Figure 12.

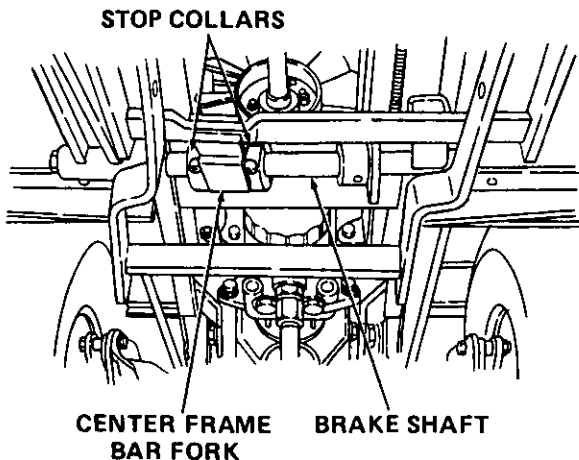


Figure 12

- Attach each of the lift links to the appropriate rockshaft lift arm using a flat washer and cotter pin. Refer to Figure 11.

NOTE

When installing the offset adjustable lift link to the rockshaft lift arms, refer to Figures 4 or 6 and note proper positioning of lift link.

B. DECK INSTALLATION

Install the mower deck as follows:

WARNING

When handling the mower deck, be careful not to cut yourself on the sharp blades.

NOTE

The following steps must be performed in order to provide sufficient clearance to slide the deck under the tractor.

- Place the rockshaft lift arms in the highest position using the lift lever.
- Lower each of the two front leveling bolts by raising the jam nut up to the head of the front leveling bolt. Refer to Figure 13.

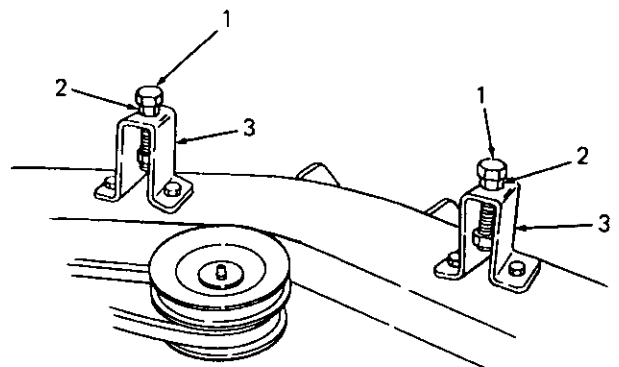


Figure 13

- Deck Leveling Bolt
- Jam Nut
- Deck Lift Bracket

- Position the mower deck on the right side of the tractor as shown in Figure 14.

- In order to facilitate sliding the deck under the tractor, reposition the ball wheels as shown in Figure 14. First retract the quick release pins, then rotate right rear wheel outward 90 degrees and left rear wheel inward 90 degrees. Secure both rear balls with quick release pins so deck is in the lowest position possible.

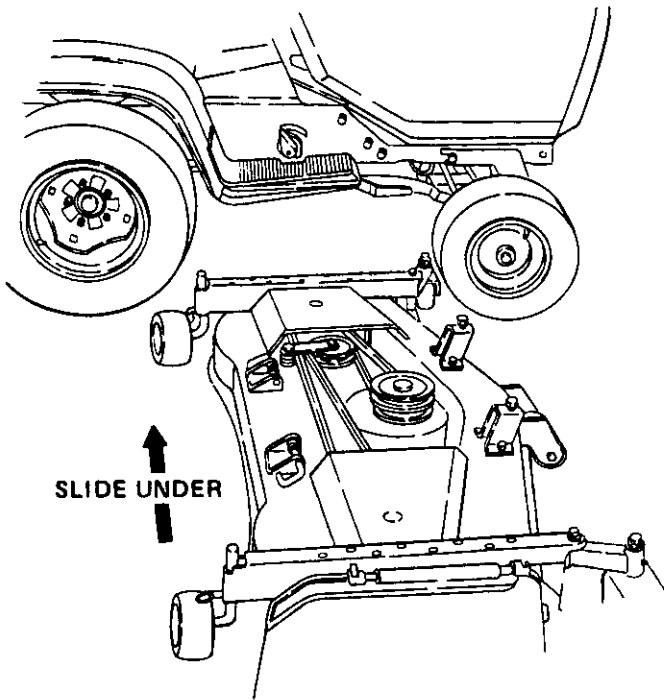


Figure 14

- Retract the quick release pins from the left and right front ball wheels. Resecure the right front wheel at the same angle so deck is in the lowest position possible. Rotate the left front wheel outward 80 degrees. It will not be possible to secure the left front wheel with the quick release pin in this position.
- Slide the deck in position under the tractor until the front deck lift brackets are aligned in front of the legs of the center frame.
- Raise deck leveling bolts to their highest position by turning jam nut down.
- Reposition ball wheels back to original position and repin.
- Place the rockshaft lift arms in the lowest position.
- Position the mower deck front deck lift brackets over each leg of the center frame. Refer to Figure 15.

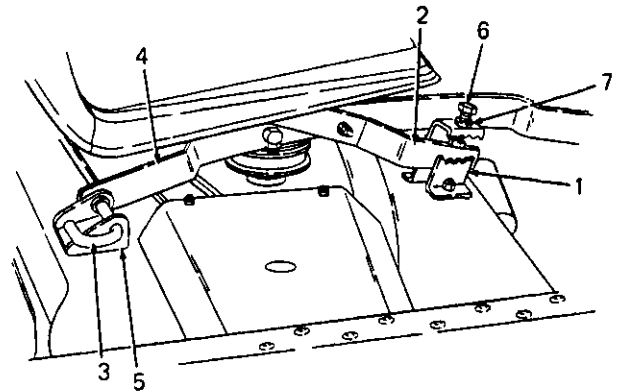


Figure 15

- | | |
|----------------------|------------------------|
| 1. Lift Bracket | 5. Support Pin Bracket |
| 2. Center Frame Leg | 6. Deck Leveling Bolt |
| 3. Mower Support Pin | 7. Jam Nut |
| 4. Lift Frame Rail | |

- Pull and turn the support pins away from the support pin brackets. Align the support pin holes in the support brackets with the holes in the lift frame rails. Release the support pins into the lift frame rails. Refer to Figure 15.
- Lower right and left deck leveling bolts until bottom of each bolt rests on top of center frame leg. Refer to Figure 15.

C. DRIVE BELT INSTALLATION

Install the drive belt as follows:

- Remove the grille insert by pushing down on the top of the grille insert and pulling forward as shown in Figure 16. Lift the grille insert up removing the tabs from the bottom of the grille housing.

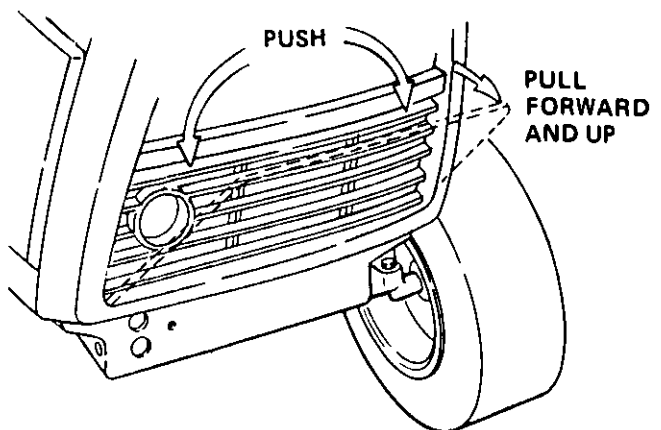


Figure 16

- Place belt included in adapter kit over PTO clutch pulley as shown in Figure 17.

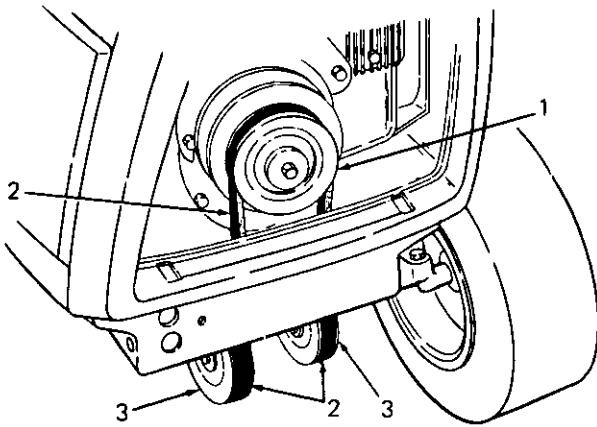


Figure 17

- Power Take-Off Pulley
- Drive Belt
- Idler Pulleys

- Place belt over top pulley of double pulley assembly on deck.
- Push the idler ratchet in and up to engage the lock notch. Refer to Figure 18.

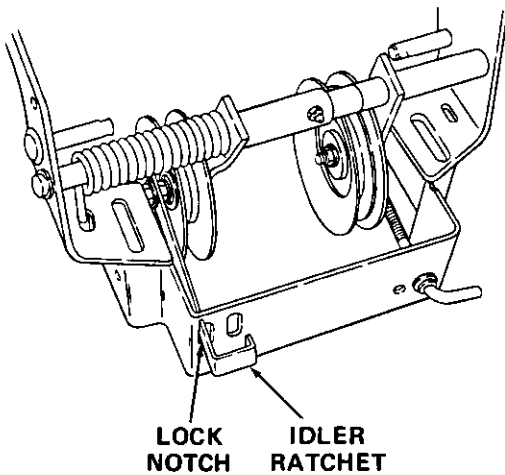


Figure 18

- Pull the drive belt forward and route the belt around the idler pulleys. The narrow side of the belt must be in the bottom of the pulley grooves. Refer to Figure 17.

- Replace the grille insert in reverse order of removal. After installing the drive belt, release the idler ratchet handle.

NOTE

Following drive belt installation, adjust the drive belt tension per "DRIVE BELT TENSION" on page 16.

D. DECK REMOVAL

WARNING

Stop the tractor engine, disengage the PTO, place all controls in neutral and engage the brake lock before performing deck removal.

WARNING

When handling the mower deck, be careful not to cut yourself on the sharp blades.

CAUTION

The tractor must be placed on a hard and level surface during deck removal.

CAUTION

Do not remove the deck immediately after running the unit. Both grille insert and engine PTO clutch are hot!

Removal of the mower deck is achieved by reversing the deck installation procedure described under "DRIVE BELT INSTALLATION" on page 13, and "DECK INSTALLATION" on page 12.

SECTION IV. ADJUSTMENTS

A. CUTTING HEIGHT



The deck is designed so when in use all four ball wheels are always in contact with the ground. Therefore, cutting height is adjusted by raising or lowering ball wheels.



Check the tires for proper inflation before making a height adjustment.

Mowing height adjustment is made by pinning the ball wheels into various adjustment holes for desired height of cut.

Adjustment holes are spaced in 9/16 inch increments.

B. FRONT AND REAR BALL WHEEL ADJUSTMENT

When adjusting the mower deck cutting height via the ball wheels and using the quick release pins, take note of the following: For the front ball wheels, the highest mounting hole corresponds to the lowest cutting height for the deck. For the rear ball wheels, the lowest mounting hole corresponds to the lowest cutting height for the deck. See Figure 19.

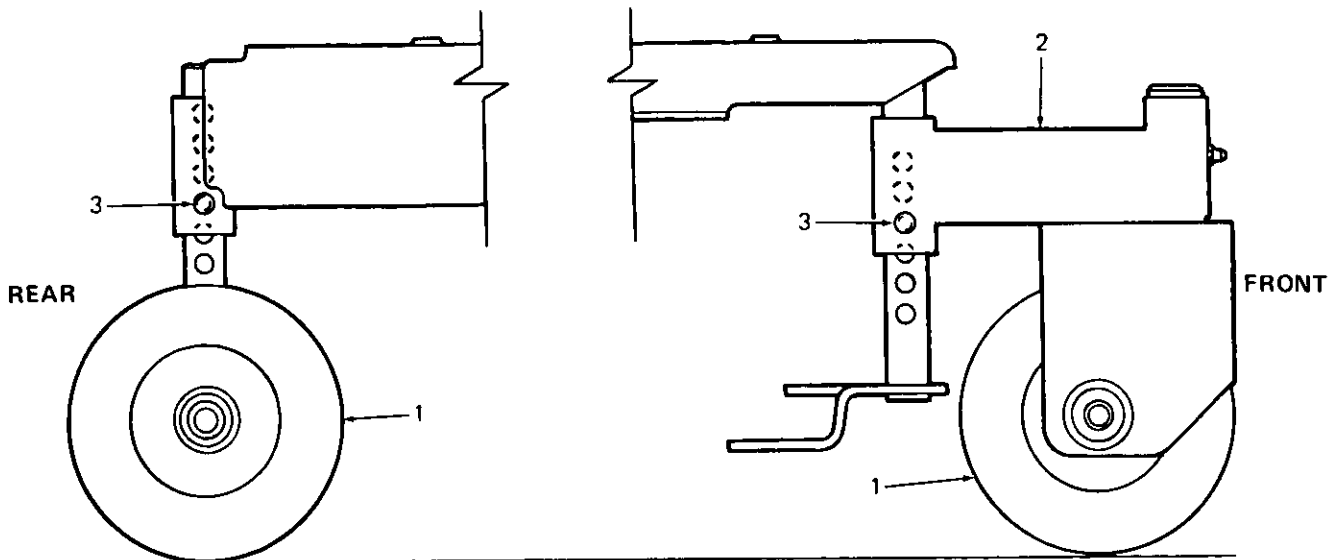


Figure 19

1. Ball Wheel
2. Ball Wheel Adjusting Bracket
3. Quick Release Pin



Before making any adjustments, stop the tractor engine, disengage the PTO, place all controls in neutral and engage the brake lock.



Remove the spark plug high tension leads.



When handling the mower deck, be careful not to cut yourself on the sharp blades.



Wheel height adjustment should be performed only AFTER the deck has been properly installed.

In order to adjust the height of the ball wheels, refer to Figure 19 and proceed as follows:

1. Use hydraulic lift lever to raise the deck to its highest setting in order to release pressure on the ball wheels.

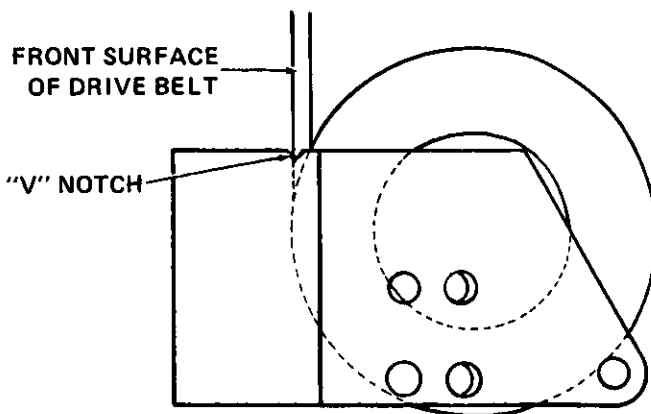
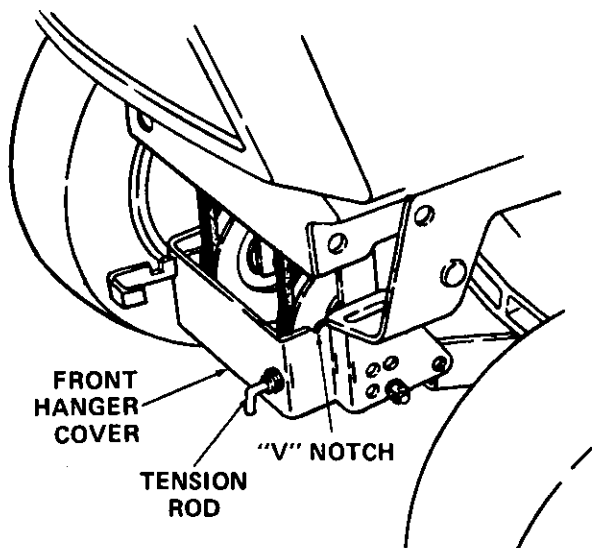


Figure 20

2. Pull out the quick release pin.
3. With pin pulled out, slide the front and rear ball wheel assemblies up or down until desired height is reached.
4. Reinsert the quick release pin.
5. Lower the deck and check for proper wheel adjustment. If adjustment is not adequate, repeat steps 1 through 5.

C. DRIVE BELT TENSION (NEW INSTALLATION)

Drive belt tension should be checked at installation, after the first 1/2 hour and again after the first 7 hours of mower operation.

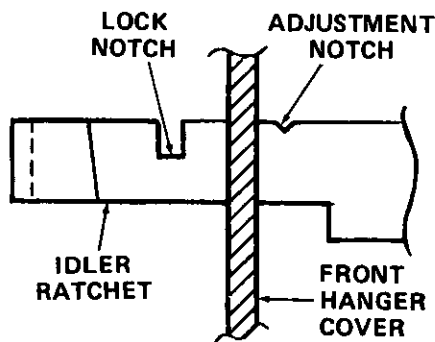
Adjust new drive belt tension as follows:

Turn tension rod in or out until front surface of belt aligns with "V" notch on left side of front hanger. Refer to Figure 20.

D. DRIVE BELT TENSION (AT FIRST 10 HOURS OF MOWER OPERATION AND EVERY 10 HOURS THEREAFTER)

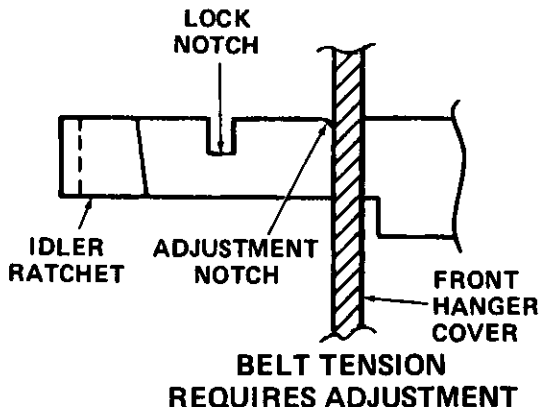
To check drive belt tension, look at the position of the idler ratchet at the point it passes through the front hanger cover. Check the location of the adjustment notch in the idler ratchet. If the idler ratchet is positioned so that the front hanger cover is between the adjustment notch and the lock notch, drive belt tension is acceptable. See Figure 21.

If the adjustment notch is on the left side of the front hanger cover, as shown in Figure 22, turn the tension rod clockwise until the adjustment notch is on the right side of the front hanger cover as shown in Figure 21.



PROPER BELT TENSION

Figure 21



BELT TENSION REQUIRES ADJUSTMENT

Figure 22

SECTION V. MAINTENANCE

A. CLEANING AND BLADE CARE



WARNING

Before performing any maintenance, stop the tractor engine, disengage the PTO, place all controls in neutral and engage the brake lock.



WARNING

Remove the spark plug high tension leads.



WARNING

When handling the mower deck, be careful not to cut yourself on the sharp blades.

After each use, flush the underside of the mower deck with a garden hose. Periodically and at the end of the mowing season, remove the belt covers and remove any accumulation.

The cutting blades must be kept sharp at all times.



NOTE

Sharpen ends evenly so that the blades remain balanced and the same angle of sharpness is maintained. However, if the cutting edge of a blade has been sharpened to within 3/8 inch of the wind wing, it is recommended that new blades be installed. Refer to Figure 23. New blades are available at your authorized dealer.

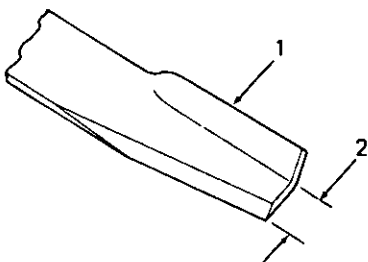


Figure 23

1. Wind Wing
2. Dimension is 3/8 Inch

When removing the blades, hold the hex shaped pulley hub with a 1-1/4 inch socket wrench to remove the hex nut holding the blade. A block of wood may be placed between housing and cutting edge of blade to assist in removal of hex nut securing blade. Refer to Figure 24.

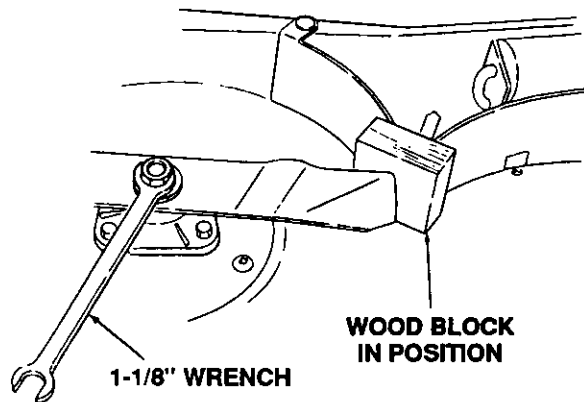


Figure 24

After replacing blades, grease the threaded end of the shaft to prevent rust buildup.

When replacing the blades, be sure they are assembled so the cutting edges are in the direction of rotation with the wind wings pointed upward. Tighten the nuts to 90 to 110 ft-lbs. (122 to 149 N-m).



NOTE

If the spindle pulley nuts are removed for any reason, they should be retightened to 50 to 60 ft-lbs. (68 to 81 N-m) torque when replaced.

B. LUBRICATION

After every 50 hours of operation and/or before putting into winter storage, lubricate the blade spindles, ball wheels, idler pivot bolt and idler pivot shaft using 251H EP grease or equivalent No. 2 multipurpose lithium grease. Refer to Figure 25.

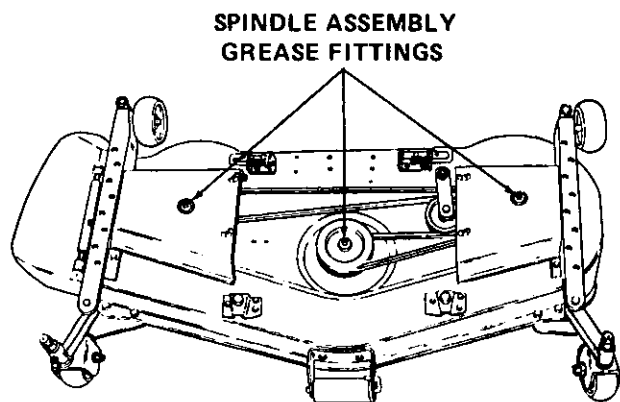


Figure 25



NOTE

When greasing spindles use a sufficient amount to flush out the old grease and dirt.

C. DRIVE BELT REPLACEMENT

To replace the drive belt, proceed as follows:

1. Push the idler ratchet in and up to position it in the lock notch. Refer to Figure 18.
2. Place the mower deck in the lowest position and disengage the mower deck from the lift frame.
3. Raise the lift frame and remove the deck from beneath the tractor.
4. Remove the belt and inspect the pulleys. If they are not in satisfactory condition, replace them.



Be sure narrow side of belt is in bottom of pulley grooves.

5. Position a new belt on the mower and install the deck as directed in "DECK INSTALLATION" located on page 12.
6. Install the drive belt on the tractor as directed in "DRIVE BELT INSTALLATION" on page 13.
7. After installing the drive belt, adjust it as described in "DRIVE BELT TENSION" on page 16.

D. SPINDLE DRIVE BELT REPLACEMENT

In order to replace the spindle drive belt, remove the deck from the unit and proceed as follows:

1. Remove the thumb screws that secure both spindle belt covers to the deck. Refer to Figure 26.

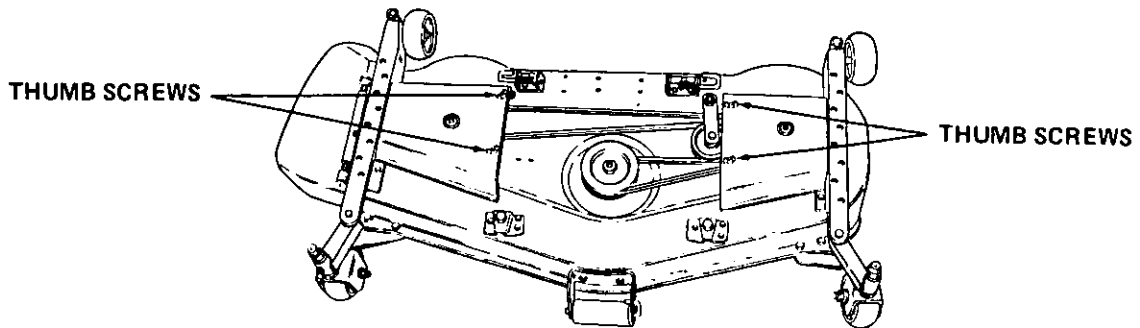


Figure 26

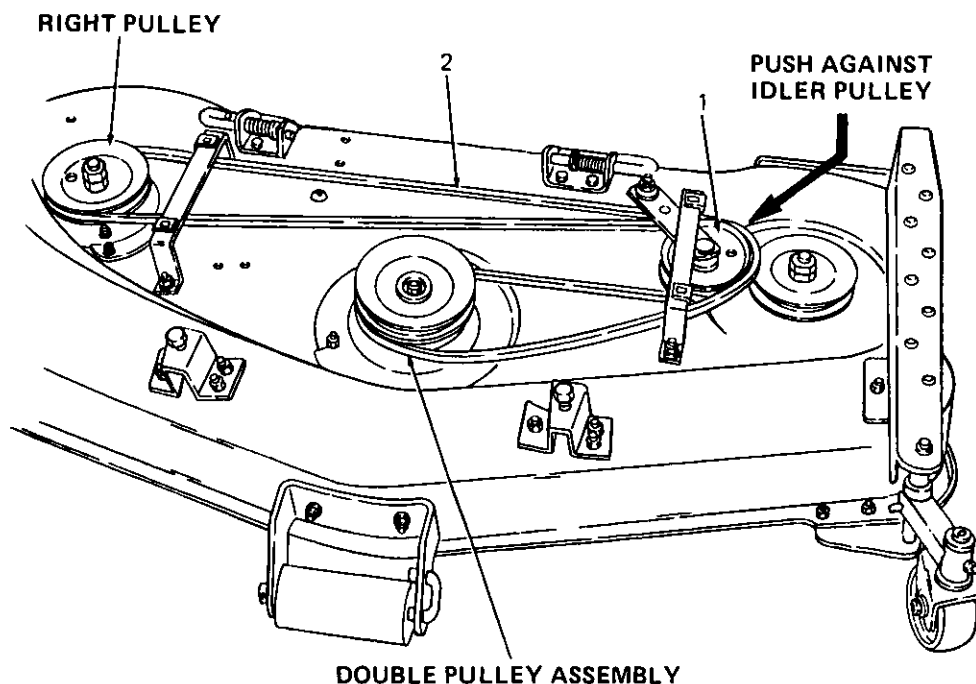


Figure 27

1. Idler Pulley

2. Spindle Drive Belt

2. Remove the spindle belt covers to expose the belt.
3. Push against the idler pulley to release tension on drive belt and remove old belt.
4. Place belt over right pulley, under idler arm between idler pulley and post, and over lower pulley of double pulley assembly. Refer to Figure 27.
5. Place belt on left pulley. Carefully turn left pulley to set belt onto left pulley. Refer to Figure 28.
6. Install spindle belt covers and hardware.

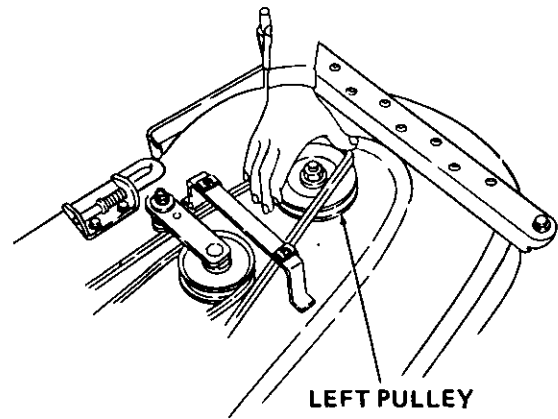


Figure 28

LUBRICATION GUIDE

The life of any machine depends upon the care it is given. Proper lubrication is a very important part of that care.

Be certain that all lubrication fittings are assembled in place, using the lubrication illustrations as a guide.

Always lubricate the deck thoroughly before taking it to the field. Use a pressure lubricating gun.

Be sure all fittings are free from dirt and paint so the lubricant is certain to enter the bearing.

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

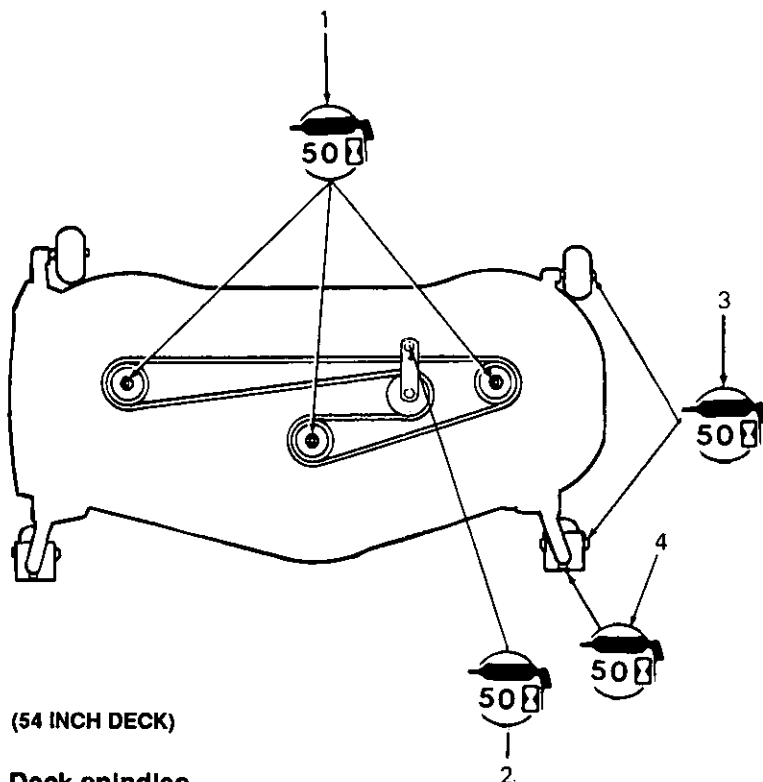
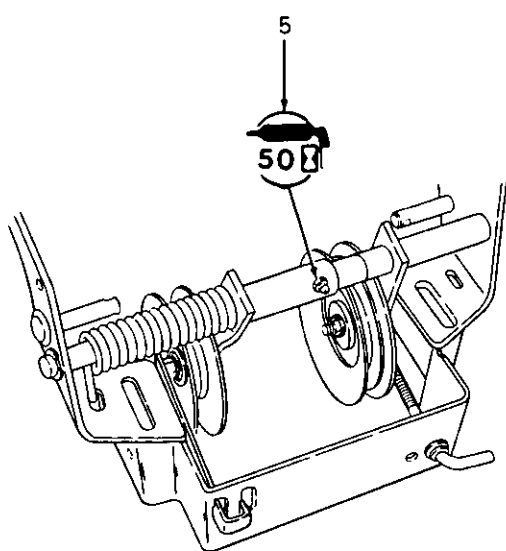
Lubricant is cheap. Use plenty of it. Worn parts can be expensive to replace.

Keep your supply of lubricating oil and grease stored in clean containers, and covered to protect from dust and dirt.

Keep the lubricating gun nozzle clean and wipe dirt from grease fittings before lubricating.

The symbol in the illustration indicates the method of application and the hourly intervals to apply the lubricant.

Use a pressure lubricating gun and apply 251H EP grease (or equivalent No. 2 multi-purpose lithium grease). Lubricate at hourly intervals indicated on symbol.



- (54 INCH DECK)
1. Deck spindles
 2. Idler pivot bolt
 3. Ball wheels
 4. Adjusting bracket
 5. Idler pivot shaft

-EVERY 50 HOURS OF OPERATION

Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease.