

44"
Cut



ROTARY MOWER

J40, J44, J46

Operator's Manual No. 9-50556

Written In **Clear**
And
Simple
English

SN C 66054

DRIVE BELT
GATES 6665

casecoltingersoll.com

JI Case
A Tenneco Company





This Safety Alert Symbol Indicates Important Safety Messages In This Manual When You See This Symbol Carefully Read The Message That Follows and Be Alert To The Possibility Of Personal Injury Or Death

IF THIS MACHINE IS USED BY AN EMPLOYEE OR IS LOANED OR RENTED, MAKE ABSOLUTELY CERTAIN THAT THE OPERATOR(S), PRIOR TO OPERATING:

1. IS INSTRUCTED IN SAFE AND PROPER USE.
2. REVIEWS AND UNDERSTANDS THE MANUAL(S) PERTAINING TO THE MACHINE.

751253



WARNING

BEFORE STARTING ENGINE

STUDY OPERATOR'S MANUAL SAFETY MESSAGES
READ ALL SAFETY SIGNS ON MACHINE
CLEAR THE AREA OF OTHER PERSONS

**LEARN & PRACTICE SAFE USE OF
CONTROLS BEFORE OPERATING**

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION, SERVICE, AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR AND SERVICE MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.

SAFETY MESSAGES



The safety messages contained in this manual are to be used together with the safety messages appearing in the tractor operators manual. Be sure to review both carefully before operating the tractor-mower combination.



Regard your rotary mower as a piece of power equipment and be sure this manual is read and understood by all who operate it.



CAUTION: Fill gas tank out of doors and avoid spilling gasoline. Do not fill tank with gasoline while smoking or while engine is running.



Maintain your tractor and rotary mower in top operating condition.



CAUTION: Never allow children or young teenagers to operate the tractor and rotary mower.



CAUTION: Clear the lawn or area to be mowed of sticks, stones or any hard objects which could come in contact with the blades and be hurled out the discharge opening.



WARNING: Be sure that the attachment drive clutch is off, the engine is shut off, the key removed and the blades have stopped spinning before attempting to clean a plugged discharge chute.



CAUTION: Do not permit children or pets in the area while mowing and never direct the mower discharge at buildings, people, pets, windows or cars.



CAUTION: Unbalanced blades are a hazard and will cause premature wear and failure of bearings and spindles. If the blades cannot be balanced by resharpening, replace them with new ones.



WARNING: Keep feet and hands away from discharge opening and make no repairs unless both the tractor engine and attachment drive are shut off and the key is removed from the tractor.



CAUTION: Never get on or off the tractor while the mower is running.



CAUTION: Give complete and undivided attention to the job at hand.



CAUTION: Stop engine, disengage attachment drive, set parking brake and remove key when tractor is unattended.



CAUTION: Do not allow anyone other than the operator to ride on the tractor.



CAUTION: Stop and inspect the mower for damage immediately after striking a foreign object and repair damage before restarting and operating the machine.



DANGER: Spinning Blade. Keep clear. Contact can injure.



CAUTION: Disengage attachment drive lever, stop engine and remove key and spark plug wire(s) before making adjustments.



CAUTION: Shut off engine, allow engine to cool and remove key and spark plug wire(s) before replacing mower drive belt.



CAUTION: Disengage attachment drive clutch when someone approaches or whenever the mower is being transported.



CAUTION: Be sure you know how to stop the tractor and mower at a moments notice.



WARNING: Improper operation of your tractor on hillsides and slopes can be dangerous. Avoid improper operation! Read and follow the instructions given in the section titled "Hillside Operation" in this manual before operating your tractor.

IMPORTANT:

Always install new decals whenever the old decals are destroyed, lost, painted over or illegible. When individual parts are replaced that have decals attached, be sure to install a new decal with the new part. Replacement decals are available from your Case dealer.

HILLSIDE (SLOPE) OPERATION



WARNING: Improper operation of your tractor on hillsides and slopes can be dangerous. Avoid improper operation! Read and follow the instructions given in the section titled "Hillside Operation" in this manual before operating your tractor.

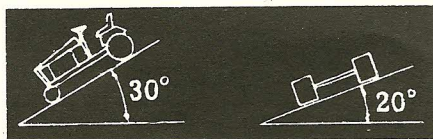
Avoid operating tractor on hillsides and slopes. To minimize the possibility of accidents while operating on hills and/or rough terrain, obey a combination of rules, practices and good common sense.

These include:

1. Reading, understanding, and obeying all written safety messages appearing on decals on the machine and in operator's manuals.
2. Learning from your operator's manual and carefully from EXPERIENCE how to operate your tractor correctly. Know your tractor's limitations.
3. Knowing the terrain on which you are operating your tractor. There are terrain conditions on which your tractor cannot be operated!
4. Learning to expect changes in operating conditions. Adding or removing attachments or weight to your tractor will make your tractor perform differently. Rain, snow, loose gravel, wet grass, etc., change the tractive conditions of the terrain requiring changes in your operating technique or not to operate on that terrain.

The following paragraphs will cover these practices one at a time. Read and study them. The examples provided are not all inclusive but will give you a firm understanding of the requirements for avoiding accidents while operating your tractor.

Case Lawn and Garden Tractors are designed and built to comply with the Voluntary Standard ANSI B71.1 - 1972 and B71.1a - 1974 (American National Standards Institute).



The diagram depicts the maximum angles that the stationary tractor, less mounted equipment, was subjected to without tipping, measured on a perfectly flat, smooth, and hard surface. This illustration does not recommend safe operating limits as the slope, type of terrain and all applicable factors as discussed in this manual must be taken into consideration by any person whenever operating the tractor.

THE OPERATOR IS THE SOLE JUDGE AS TO THE DEGREE OF SLOPE ON WHICH THIS TRACTOR CAN BE SAFELY OPERATED. IF IN DOUBT THAT THIS TRACTOR CAN BE SAFELY OPERATED ON A PARTICULAR SLOPE, DO NOT OPERATE ON THAT SLOPE! COMMON SENSE MUST PREVAIL.

Read, Understand, Obey:

Safety messages are found on the tractor and in the operator's manuals. These must be understood by the tractor operator to be of value. Be sure that these messages are studied before starting and/or operating the tractor by an operator not familiar with this particular tractor.

Learn to Operate:

Learn your tractors controls from decals on the tractor and from instructions in the operator's manual. Practice how to properly manipulate these controls. Practice must be done in a flat area, clear of obstacles and bystanders. Learn your tractor's operating characteristics and limitations. These include:

- a. amount of engine power available
- b. engine governor response
- c. tractive ability
- d. steering characteristics
- e. braking characteristics
- f. movement of travel lever
- g. forward and reverse ground speeds
- h. speed of attachment lift
- i. and others

Attempting any operation which approaches or exceeds the tractor's limitation is risking an accident.

Know the Terrain:

Know the terrain on which you are working. Find hidden obstacles by walking through and inspecting the area prior to operating your tractor on it. Mark obstacles, such as, rocks, ruts or holes with a 6 ft. long pole and red flag and stay well clear of these obstacles when operating.

Operate your tractor at a ground speed slow enough to insure complete control at all times.

Place the transmission in low range and regulate the travel control lever slowly and smoothly to maintain this safe speed.

Always drive in a forward direction when proceeding downhill. Never drive up a hill. If necessary, back up a hill to the desired position. Always back up loading ramps and tilt bed trailers. If necessary to turn while on a hill, always turn downward.

Your judgement, based on operating experience is the final word in deciding if you should negotiate any given hill or slope. If you are in doubt about safety - STAY OFF THE SLOPE.

Under no circumstances should an inexperienced operator attempt to use your tractor on slopes or hillsides.

You may encounter some terrain on which your tractor cannot be operated even if a different piece of equipment has operated there in the past.

Learn to Compensate for Changes in Operating Conditions:

Adding or removing attachments or ballast (such as wheel weights or fluid) change the weight and weight distribution of your tractor and, therefore, change your tractors operating characteristics.

Be alert to these changes. Practice operating the tractor after each change has been made.

Adding an attachment (weight) to the rear of the tractor reduces the weight on the front axle. Adding an attachment (weight) to the front of the tractor reduces weight on the rear of the tractor. You must add counterweight to the front if a rear mounted attachment is installed. You must add counterweight to the rear if a front mounted attachment is installed.

Traction conditions will vary with weather and terrain and equipment.

Areas wet with dew, rain or snow will be more slippery than when dry. Areas covered with loose gravel are more slippery than firm dry ground. Greater stopping distances are required in these slippery areas.

Spinning rear wheels tend to move the tractor sideways. The addition of tire chains will provide more traction to the rear wheels in the forward-reverse direction but less stability in the sideways direction. Chains will cause more abrupt starting and stopping.

The final word in safe tractor operation rests on your judgement.

If in doubt of your safety - STAY OFF THE SLOPE.

INTRODUCTION

This operator's manual is for the Model J40, J44, and J46 rotary mower. This operator's manual includes:

- a. Safety Rules
- b. Installation Procedure
- c. Operating Procedure
- d. Adjustments
- e. Maintenance

Read this manual before operating your rotary mower.

See your J I Case dealer for parts or repairs.

The words "Right, Left, Front and Rear" as used in this manual indicate directions when you are in the operator's seat in the normal operating position.

ATTACHMENT APPLICATION CHART

MODEL	SIZE	TRACTOR MODEL (Beginning with P.I.N. 9646800)
J40	38" (965 mm)	210, 220, 222
J44	44" (1115 mm)	222, 224, 444, 446, 448, 644, 646
J46	48" (1220 mm)	224, 444, 446, 448, 644, 646

BELT APPLICATION CHART

<u>TRACTOR MODEL</u>	<u>BELT PART NUMBER</u>
210 All	C23358
220 Before P.I.N. 9656747	C23807
220 P.I.N. 9656747 and after	C23358
222 Before P.I.N. 9658189	C23807
222 P.I.N. 9658189 and after	C23358
224 All	C23358
442 All	C23809
444 Before P.I.N. 9661261	C23809
444 P.I.N. 9661261 and after	C23359
446, 448 All	C23359
644 Before P.I.N. 9698343	C23807
644 P.I.N. 9698343 and after	C23810*
646 All	C23808*

* Belt included with loader tractor

SPECIAL INFORMATION

<u>TRACTOR MODEL</u>	
446 and 448	Part Number C19642 lift link included with tractor

INSTALLATION ON TRACTORS BEFORE PRODUCT IDENTIFICATION NUMBER 9646800

<u>TRACTOR MODEL</u>	<u>USE KIT</u>
220, 222	H-38
442, 444	H-39

NOTE: Part numbers can change. See your J I Case Dealer.

OPERATING CONTROLS

ATTACHMENT CLUTCH LEVER

The rotary mower is started and stopped with the attachment clutch lever.

See your tractor operator's manual for correct use of your tractor controls.

ATTACHMENT LIFT LEVER

The rotary mower is raised and lowered with the attachment lift lever.

HYDRAULIC LIFT

When mowing, put the attachment lift lever in the "LOWER" position until the lift arms are midway in the lift link slots.

See your tractor operator's manual for correct use of your tractor controls.

HEIGHT SELECTOR LEVER

The cutting height is controlled by the height selector lever.

TO INCREASE THE CUTTING HEIGHT: Disengage the pin and pull the height selector lever up.

TO DECREASE THE CUTTING HEIGHT: Disengage the pin and push the height selector lever down.

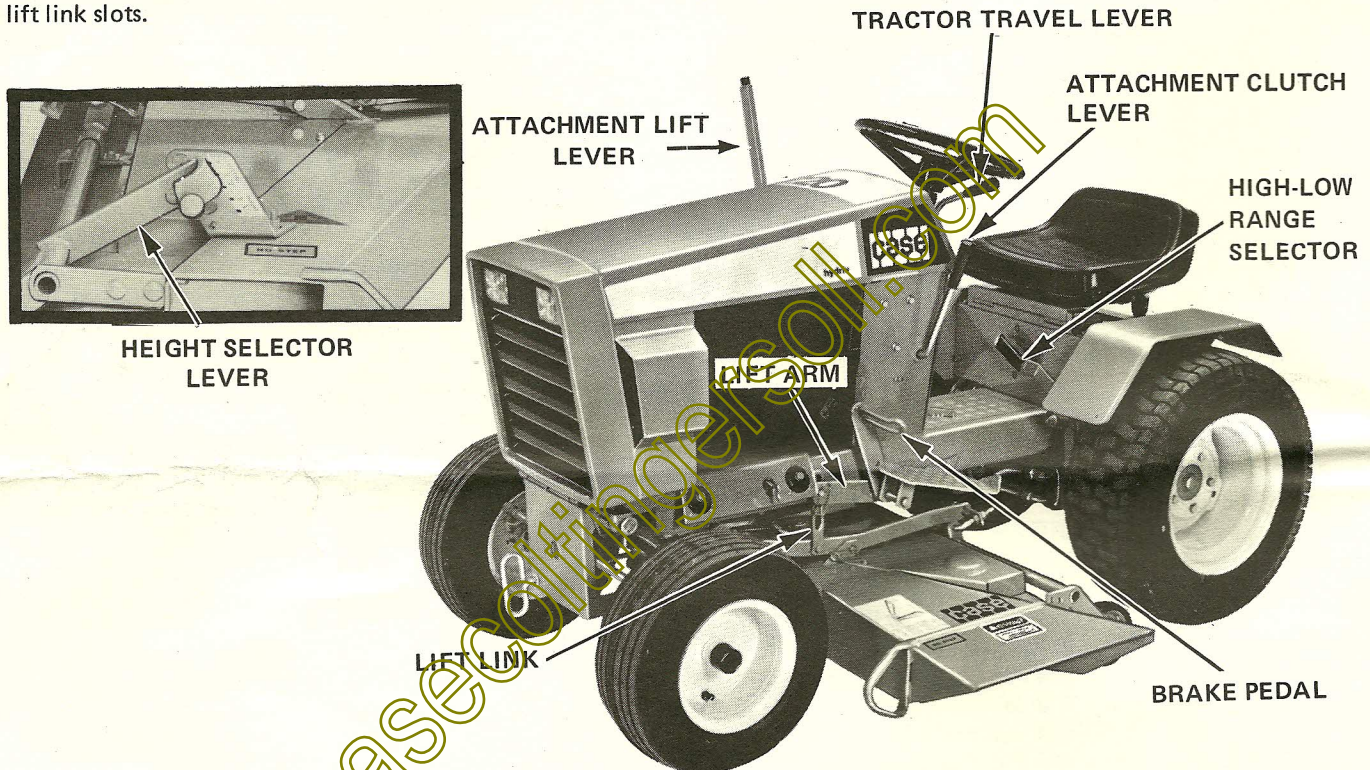


FIGURE 1 (MODEL 220 WITH MODEL J40 ROTARY MOWER)

OPERATION

1. See the "ADJUSTMENTS" and "MAINTENANCE" sections of this manual before operating your rotary mower.
2. See your tractor operator's manual for correct use of your tractor controls.
3. Learn to operate the tractor and rotary mower in an area clear of persons and obstructions.
4. Check the work area for obstructions. Remove the small obstructions. Mark the large obstructions so you can see them. Do not hit the large obstructions.
5. Get on and get off the tractor correctly. Never use the lawn mower frame for a step.



WARNING: Be sure that the attachment drive clutch is off, the engine is shut off, the key removed and the blades have stopped spinning before attempting to clean a plugged discharge chute.

TO GET ON THE TRACTOR FROM THE RIGHT SIDE:

- a. put your right foot on the right foot rest
- b. put your right hand on the steering wheel
- c. put your left hand on the seat back
- d. swing your left leg between the steering wheel and seat

TO GET ON THE TRACTOR FROM THE LEFT SIDE:

- a. put your left foot on the left foot rest
- b. put your left hand on the steering wheel
- c. put your right hand on the seat back
- d. swing your right leg between the steering wheel and seat

Use the reverse procedure to get off the tractor.



CAUTION: Never get on or off the tractor while the mower is running.

6. Start the rotary mower by smoothly engaging the attachment clutch lever.



Be certain whoever operates the mower has read and understands the Safety Rules in the front of this manual.

7. Lower the lawnmower to the cutting position. Make sure the lift arms are located in the center of the slots in the lift links. This permits free movement of the lawnmower.



DANGER: Spinning Blade. Keep clear. Contact can injure.

On tractors with hydraulic lift, do not put the attachment lift lever in the "FLOAT" position.



WARNING: Improper operation of your tractor on hillsides and slopes can be dangerous. Avoid improper operation! Read and follow the instructions given in the section titled "Hillside Operation" in this manual before operating your tractor.

MOWING CONDITIONS

Mowing conditions can be different. You must use the correct operating methods according to the following chart:

CONDITION

1. Short or thin grass.

METHOD

1. a. move the height selector lever to the cutting height needed.
- b. move the throttle lever to a position between 3/4 and full throttle.
- c. adjust ground speed as needed.
- d. you may decrease engine speed or put the range selector in the "HIGH" position if this doesn't cause an overload to the engine. The engine will become too hot and the rotary mower will not work correctly if the engine is operated with an overload.

CONDITION

2. Long or thick grass.

3. Wet grass.

4. Rough terrain.

5. Cutting near objects.

6. When grass will not be swept.

7. When grass will be swept.

8. Wind.

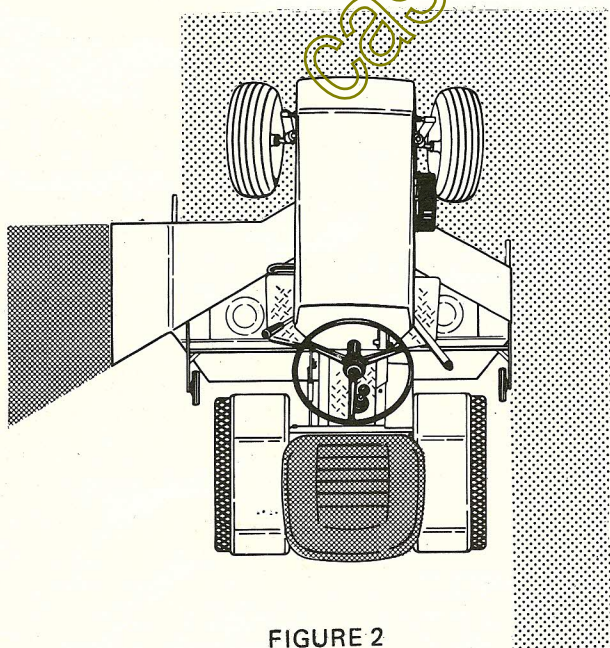


FIGURE 2

METHOD

2. a. move the height selector lever to the highest position.

b. increase engine speed to the "FULL THROTTLE" position.

c. reduce ground speed.

d. cut long or thick grass twice.

e. operate with the chute facing the cut area.

3. a. do not cut wet grass.

4. a. raise the mower into the transport position.

b. put the gauge wheels in the 2" position.

c. operate the mower in the transport position to keep the gauge wheels off the ground.

d. reduce ground speed.

5. a. use the right side of the rotary mower.

The cut material will be moved away from the object.

6. a. operate with chute facing the cut area.

7. a. operate with chute facing the uncut area.

b. the grass will be in one strip and can be removed with a sweeper.

8. turn the tractor so the wind will move grass away from you.

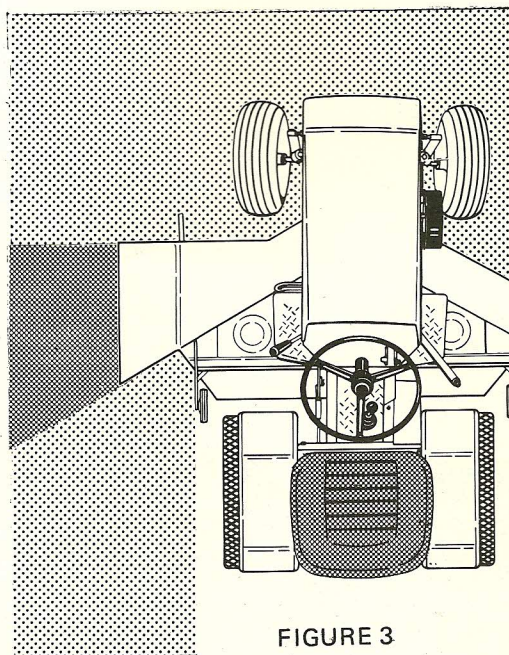


FIGURE 3

ADJUSTMENTS

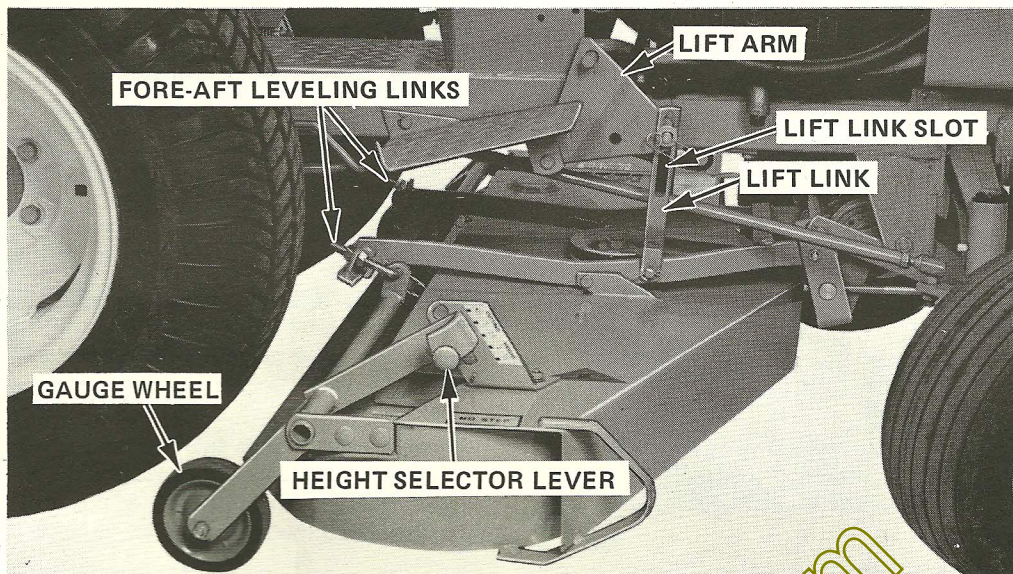


FIGURE 4 (Special Lift Link used with Tractor Model 446 and 448 shown.)



CAUTION: Disengage attachment drive lever, stop engine and remove key and spark plug wire(s) before making adjustments.

HEIGHT SELECTOR LEVER. (See Figure 4.)

You can adjust the lawnmower height from 1-1/2" (40 mm) to 3-1/2" (90 mm) in 1/2" (12 mm) units.

TO CHANGE THE CUTTING HEIGHT:

1. Raise the lawnmower into the transport position. This will decrease the weight on the height selector lever.
2. Pull outward on the pin.
3. Move the lever up or down to the needed height.
4. Push the pin into the hole selected.

GAUGE WHEELS. (See Figure 4.)

SMOOTH TERRAIN

1. Always operate the rotary mower with the gauge wheels on the ground. Make sure all weight is off the lift links for the rotary mower. The lift links must move freely to cut level and even.
2. The gauge wheels must not contact the ground while the lawnmower is in the transport position.

ROUGH TERRAIN

1. Operate the rotary mower in the transport position and with the height selector lever in the 2" position. This will keep the gauge wheels from contacting the ground.

2. Reduce ground speed.

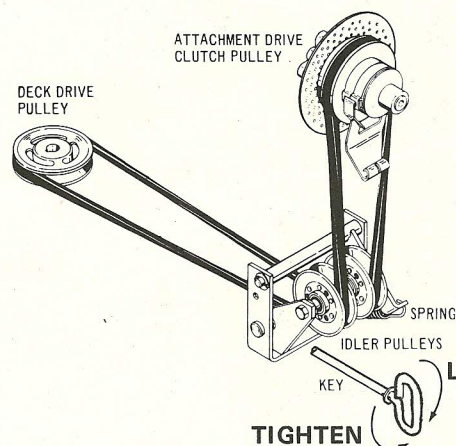
DRIVE BELT TENSION. (See Figure 5.)

The belt tension is correct when the spring has 1/8" (3 mm) gap between coils.

TO INCREASE BELT TENSION: Turn the adjusting handle counterclockwise.

TO DECREASE BELT TENSION: Turn the adjusting handle clockwise.

IMPORTANT: The length of a new belt will increase during the run-in period. When you use a new belt for the first 20 minutes, check and adjust the tension. After the next hour, check and adjust the tension again.



1) WIND KEY CLOCKWISE BY HAND AS FAR AS POSSIBLE AND PLACE ATTACHMENT DRIVE IN ENGAGEMENT POSITION.

2) INSTALL BELT OVER PULLEYS AND IDLER PULLEYS AS SHOWN. DOUBLE CHECK THAT THE BELT IS PROPERLY SEATED IN EACH PULLEY WITH ONLY ONE 90 DEGREE TWIST BETWEEN SUCCEEDING PULLEYS.

3) WIND KEY COUNTERCLOCKWISE UNTIL SPRING SHOWS 1/8 INCH GAP BETWEEN COILS AS VIEWED FROM THE SIDE. THE TWO IDLER PULLEYS SHOULD BE APPROX. EVEN OR CLOSE TO A COMMON CENTER LINE.

4) AT PERIODIC INTERVALS RECHECK FOR 1/8 INCH CLEARANCE BETWEEN COILS AND ADJUST AS REQUIRED.

FIGURE 5

LAWNMOWER FRONT TO REAR LEVEL.

(See Figure 6.)

Smooth cutting and minimum horsepower consumption are a result of a level rotary mower.

BEFORE STARTING THE PROCEDURE:

1. Put the tractor and rotary mower on a level surface, like a concrete floor.
2. Put the height selector lever in the 2-1/2" position.
3. Lower the lawnmower to the cutting position.

TO RAISE THE FRONT OF THE LAWMOWER:

1. Loosen the rear nuts that hold the leveler links.
2. Turn the two front nuts rearward an equal number of turns.

TO LOWER THE FRONT OF THE LAWMOWER:

1. Loosen the front nuts that hold the leveler links.
2. Turn the two rear nuts forward an equal number of turns.

TO CHECK FOR LEVEL:

1. Rotate the blades until they are parallel to the tractor frame from front to rear.
2. Make sure the nuts on the leveler links are tight.

3. Measure the distance from the blade ends to the level surface. Make sure you measure as near the blade end as possible.

The lawn mower is level when both front and rear blade measurements are the same. The front end may be 1/8" (3 mm) lower than the rear end. Never permit the rear end to be lower than the front end. This will cause more than normal power consumption.

LAWN MOWER SIDE TO SIDE LEVEL (See Figure 6.)

Make sure the problem is not the air pressure in the tires. The air pressure in both tires must be correct and equal.

Lawn mower side to side level is adjusted at the factory. If additional adjustment is necessary:

1. make sure the lawn mower is level "front to rear"
2. move the tractor and lawn mower to a level surface
3. move the height selector lever to the 2-1/2" position
4. lower the lawn mower to the cutting position
5. loosen the two bolts that fasten the gauge wheel carrier to the lawn mower
6. raise or lower the carrier as required. Make the holes larger if additional adjustment is needed.
7. tighten the bolts

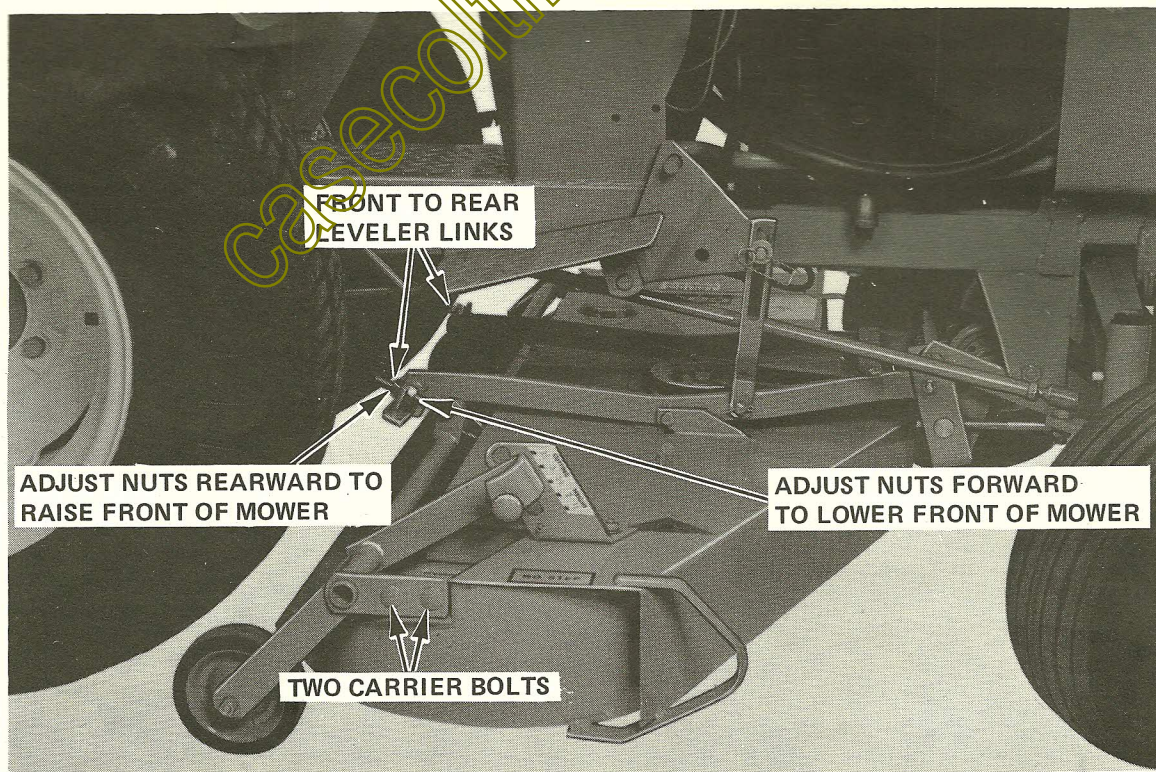


FIGURE 6 (Special Lift Link used with Tractor Model 446 and 448 shown.)

MAINTENANCE



CAUTION: Disengage attachment drive lever, stop engine and remove key and spark plug wire(s) before making adjustments.

BLADE BOLTS. (See Figure 7.)

Before you operate the lawn mower for the first time, check the bolts holding the blades. The bolts must be tight. After the first eight hours of operation, check the bolts again. Each time the blades are removed, install new lock washers under the bolt heads. Tighten the bolts and check again after 8 hours of operation.

BENT BLADES. (See Figure 7.)

Check for a bent blade before you install the lawn mower on the tractor. Check the blades for damage after you hit foreign material.

The ends of the blades must be aligned horizontally. A $1/8''$ (3 mm) difference is acceptable.

Align two blades as shown in Figure 7. Check all six ends in a similar way. Replace all bent blades.

Bent blades will leave strips of grass not cut.

MOWER GAUGE WHEELS. (See Figure 8.)

Two acceptable methods of lubrication:

- Lubricate the gauge wheels every eight hours. Remove the gauge wheels to apply grease to the bushings.
- Apply oil every four hours to the bolts and bushings of the gauge wheels. You do not need to remove the gauge wheels to apply oil. Tilt the lawn mower chassis. Let the oil flow into the bushings.

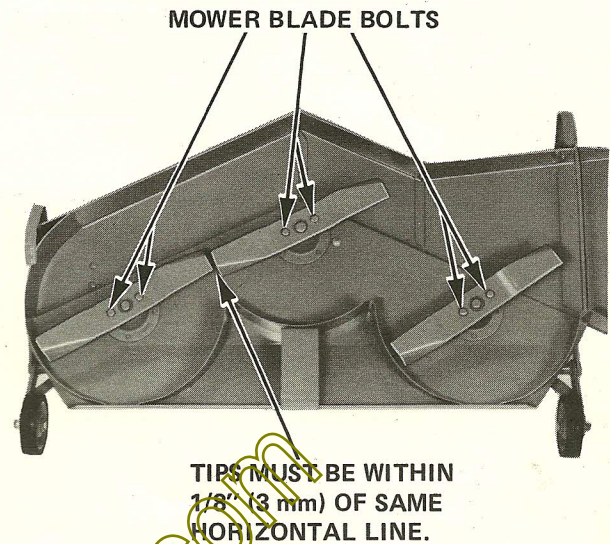


FIGURE 7

BELT REPLACEMENT ON THE LAWN MOWER CHASSIS. (See Figure 8.)

- Remove the chassis belt guard.
- Release the idler pulley tension. Put a $9/16''$ wrench on the nut which holds the idler pulley. Rotate the wrench towards the front of the chassis.
- Remove the old belt.
- Put the new belt around the three spindle pulleys and idler pulley.
- Manually rotate the belt. Check for free movement of the belt. Make sure the idler pulley has tension.
- Install chassis belt guard.

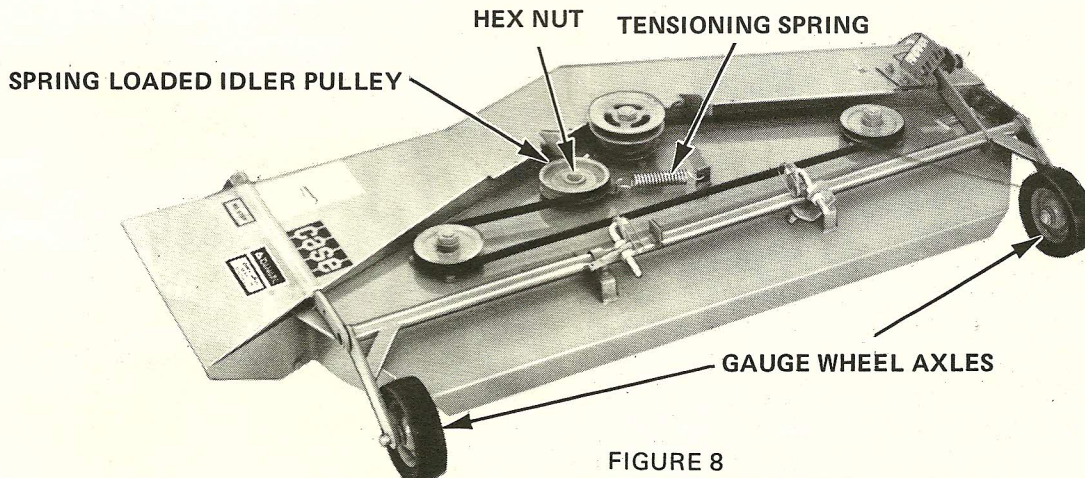


FIGURE 8
J-46 MOWER WITH
BELT GUARD REMOVED FOR A CLEAR VIEW

SHARP BLADES. (See Figure 9.)

Stop the engine. Wait for all motion to stop. Be careful while you check the lawn mower blades. After each job check for damage or blade wear.

A blade that is worn can give a rough cut and brown areas of grass can result.

See Figure 9 for the correct angle of the cutting edge. The cutting edge must be at least 2-1/2" (65 mm) long.

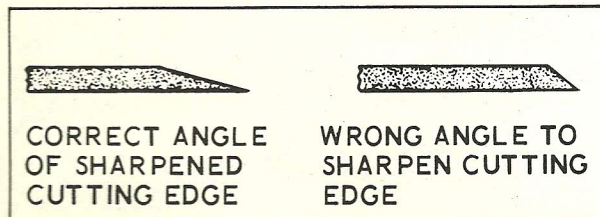


FIGURE 9

NOTE: The J46 lawn mower blades have different lengths. The center blade is 1" (25 mm) shorter than the outside blades.

Make sure the shorter blade is installed on the center spindle.

Manually rotate the blades after installation. Check for correct clearance through one complete turn.

After grinding a blade, check for balance. Use a balance tool as shown. A balanced blade will stay in a horizontal position.

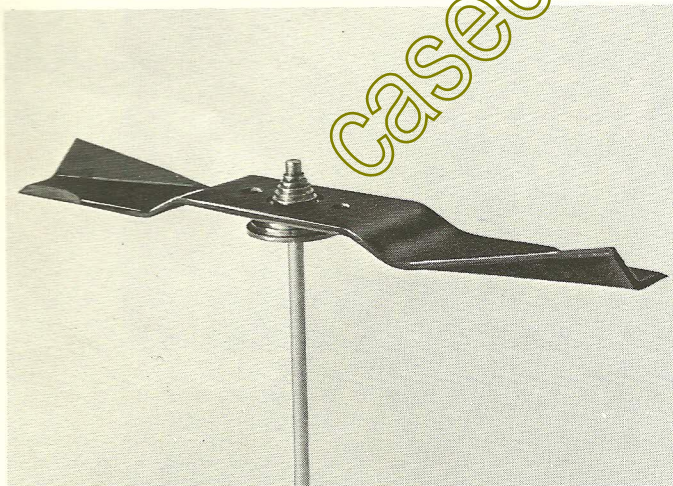


FIGURE 10

CAUTION: Unbalanced blades are a hazard and will cause premature wear and failure of bearings and spindles. If the blades cannot be balanced by resharpener, replace them with new ones.

CLEANING THE LAWN MOWER CHASSIS

Large amounts of grass in the blade chassis will:

1. cause more than normal horsepower consumption
2. cause an obstruction
3. cause a bad cutting job
4. cause corrosion
5. damage bearings or seals



DANGER: Spinning Blade. Keep clear. Contact can injure.

Stop the engine. Wait for all motion to stop. Use caution when you check the lawn mower chassis. Periodically check and clear the chassis. Remove the grass wound between the blade mounting plates and spindle housings.

TRACTOR AND ENGINE MAINTENANCE

Complete instructions for tractor and engine maintenance are in your tractor operator's manual.

CHECK AND CLEAN DAILY:

1. Fins of the heat exchanger.
2. Air intake screen of the engine.
3. Air cleaner element.

During dust or dry conditions use a precleaner. The precleaner fits over the air cleaner element and gives the element a longer life.

The precleaner can be washed with detergent and water. See Figure 11.

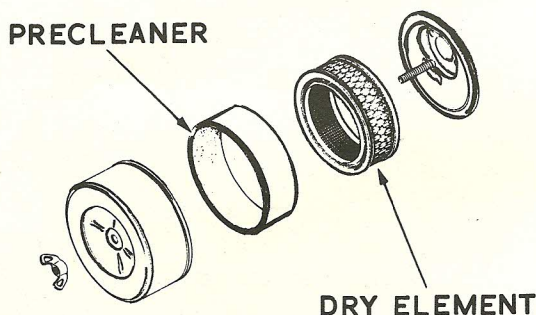


FIGURE 11

TIRE AIR PRESSURE

Keep the tires at the correct air pressures. See your tractor operator's manual.

INSTALLATION

ASSEMBLY

1. Remove the components from the box. Check for damage or missing parts.
2. Use the chart on page 7 and select the correct belt. The belt part number is on the outer covering of the belt.

NOTE: The belt for the 600 series tractors is included with the tractor.

3. Select the correct lift links.

- a. The short lift links are used on the 200 or 600 series tractors.
- b. The long lift links are used on the Model 444 tractor.

- c. One long lift link and one offset lift link are used on the Model 446 and 448 tractor. The offset link, part number C19652, is included with the tractor.

4. Use cotter pins to fasten the lift links to the mounting bracket. See Figure 13.

NOTE: On Model 446 and 448 tractors, the offset lift is fastened to the R.H. side of the tractor.

NOTE: Do not assemble the mounting bracket to the lawn mower chassis as shown in Figure 13. It is easier to first install the mounting bracket on the tractor.

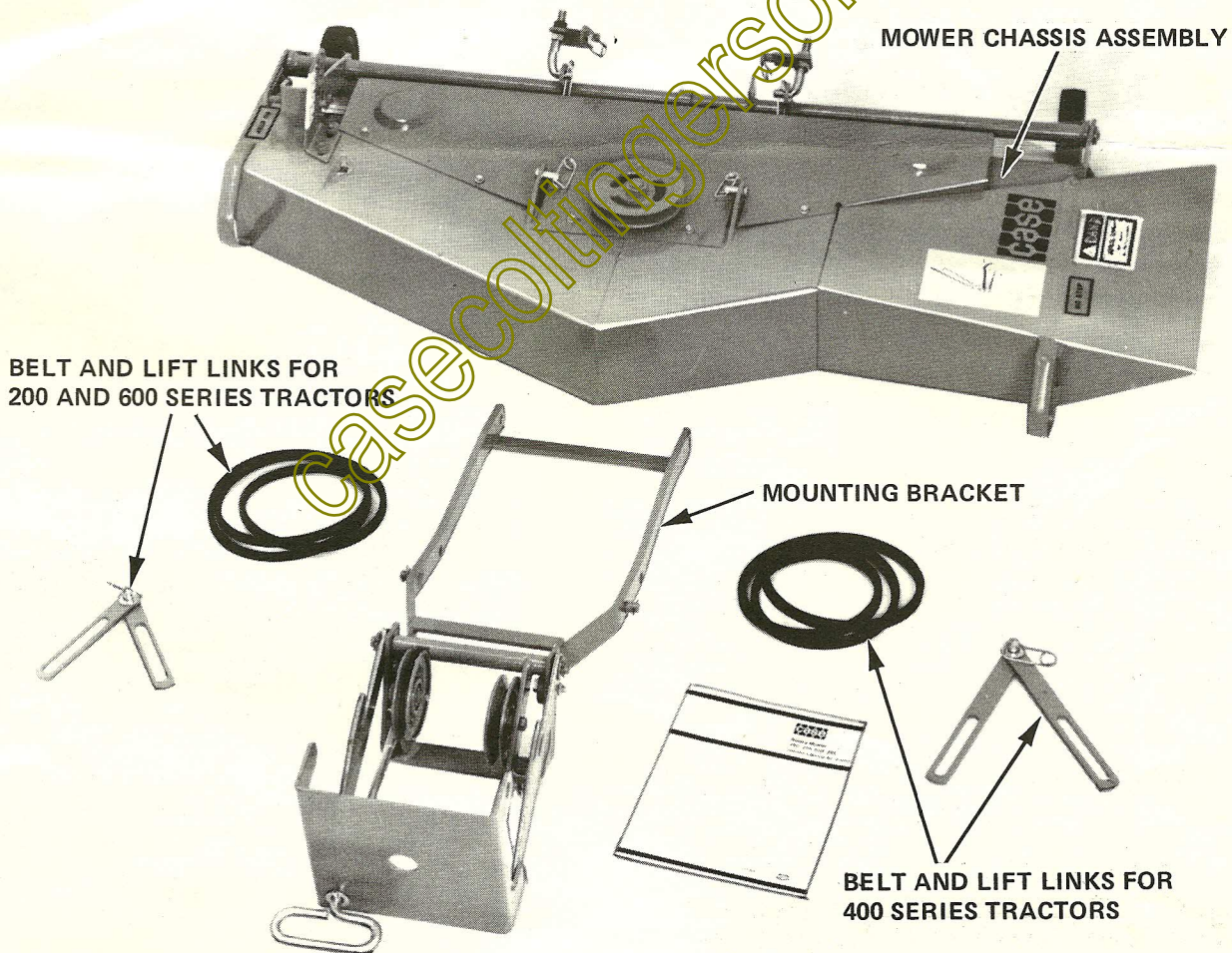
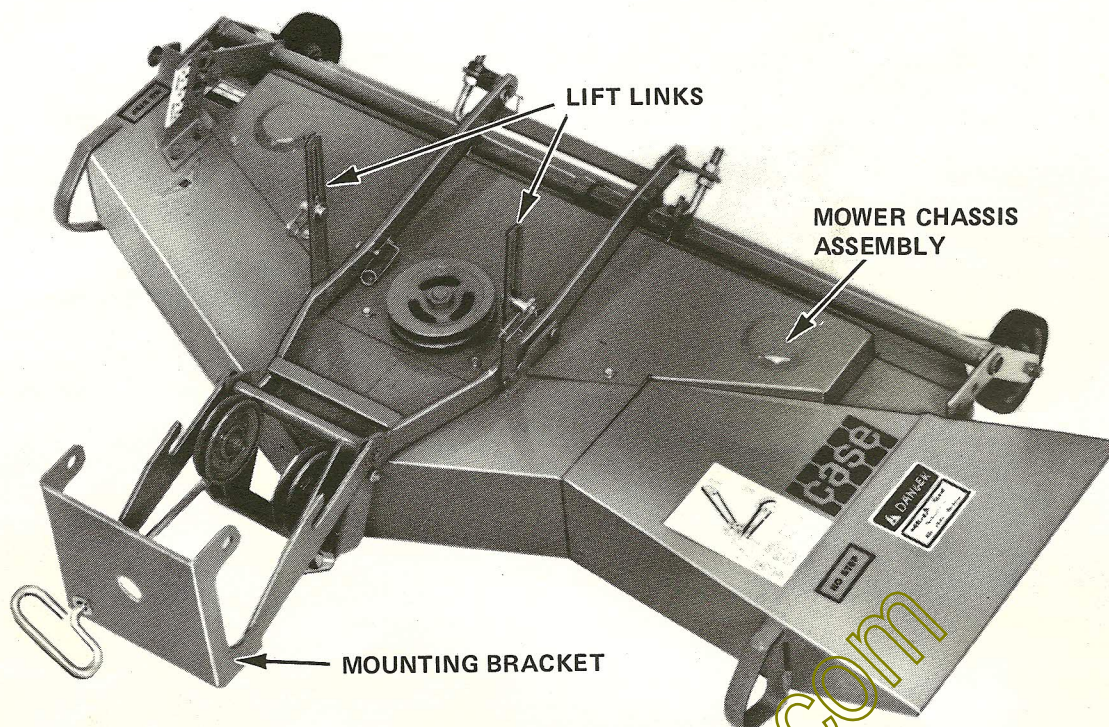


FIGURE 12 MODEL J-46 ROTARY MOTOR - DISASSEMBLED



NOTE: DO NOT ASSEMBLE MOUNTING BRACKET TO MOWER CHASSIS AS SHOWN. REFER TO STEP 3 - ASSEMBLY.

FIGURE 13 MODEL J-46 ROTARY MOWER - ASSEMBLED

INSTALLING

1. Put the tractor on a level surface like a concrete floor.
2. Completely turn the belt adjuster handle counter-clockwise. This will permit mounting clearance at the front axle. See Figure 14.

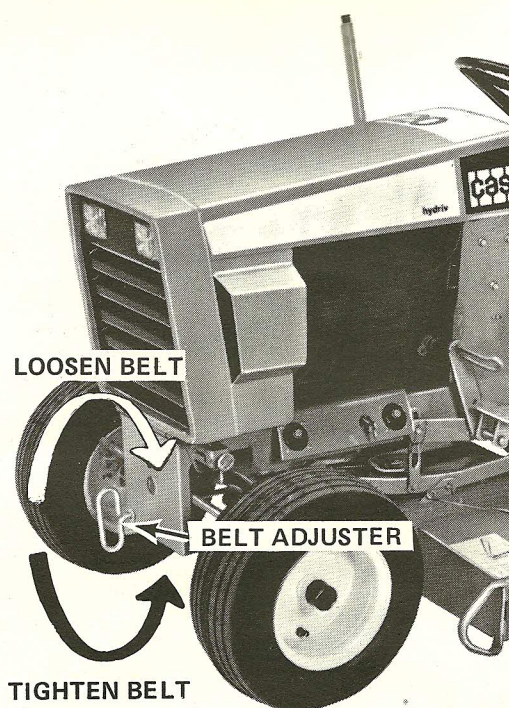


FIGURE 14 BELT ADJUSTMENT

6. Put the height selector lever in the 1-1/2" (40 mm) position. From the right side, slide the lawnmower under the tractor. Align the mounting tabs with the mounting bracket.

Raise the lawn mower to the 2-1/2" (65 mm) position. Lower the mounting bracket to the lawn mower chassis. See Figure 16.

7. Fasten the leveler links to the mounting bracket as shown in Figure 16.
8. Connect the tab on the lawn mower to the mounting bracket. Use two clevis pins and safety pins.

NOTE: Manually lift the lawn mower to align the bracket and tab holes.

9. Select the correct belt according to the chart on Page 7.

Before you install the belt:

- a. stop the engine
- b. remove the ignition key
- c. permit the engine to cool
- d. engage the attachment drive clutch
- e. raise the hood and remove the spark plug wire



CAUTION: Shut off engine, allow engine to cool and remove key and spark plug wire(s) before replacing mower drive belt.

To install the belt:

- a. pull the belt up in front of the idler pulleys
 - b. pull the belt up and between the heat exchanger and the fan
 - c. put the belt on the pulley of the attachment drive clutch
 - d. turn the belt adjuster lever clockwise to allow the belt to go around the idler pulleys
 - e. align the belt on the idler pulleys
 - f. put the belt on the pulley of the lawn mower
10. Make sure the belt is correctly located on each pulley. See Figure 5.
 11. Turn the adjuster lever counterclockwise for belt tension. A 1/8" (3 mm) gap, between the coils of the idler spring, will indicate correct tension.

IMPORTANT: Before operating the lawn mower, read and follow the Adjustments and Maintenance sections of this manual.

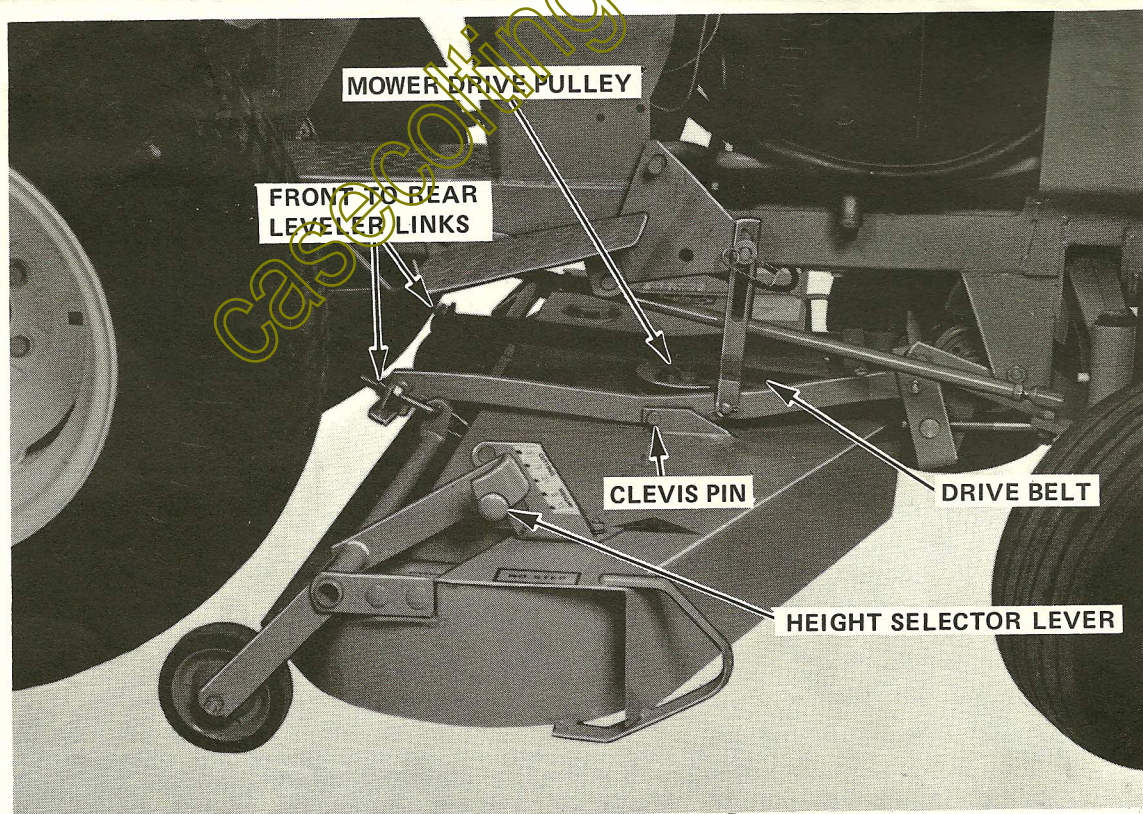


FIGURE 16 MOUNTING THE J-46 MOWER CHASSIS
(Special Lift Link used with 446 and 448 Tractors shown)

TROUBLESHOOTING CHART

LAWN MOWER NOT CUTTING EVEN OR LEAVING A STRIP OF GRASS

POSSIBLE CAUSE	CORRECTION
1. Obstruction in bottom of mower chassis.	1. Remove chassis and clean.
2. Blades not sharp.	2. Cutting edge must be sharp and at least 2-1/2" (65 mm) long.
3. Engine speed too slow.	3. Adjust engine speed to 3600 RPM.
4. Travel speed too fast.	4. Decrease travel speed.
5. Grass too long.	5. Cut twice. First at highest position then at needed height.
6. Drive or chassis belt slippage.	6. Check belts. Adjust tension or replace.
7. Attachment drive clutch slippage.	7. Adjust or repair attachment drive clutch.

LAWN MOWER CUTS HIGH ON ONE SIDE

POSSIBLE CAUSE	CORRECTION
1. Lawn mower chassis not level side to side.	1. Adjust side to side level (first check for equal tire pressure).

TOO MUCH POWER CONSUMPTION AND CUTS BADLY

POSSIBLE CAUSE	CORRECTION
1. Blades not sharp.	1. Make blades sharp.
2. Lawn mower chassis not level front to rear.	2. Chassis must be level or no lower than 1/8" (3 mm) in front (first check air pressure in tires).
3. Blades installed upside down.	3. Install correctly. Blades rotate counterclockwise. Cutting edge must lead.
4. Blade not straight.	4. Replace blade.

CENTER BLADE ONLY CUTTING

POSSIBLE CAUSE	CORRECTION
1. Chassis belt broken.	1. Replace belt.

The J I Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligations to install them on units previously sold.

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