

# OPERATOR'S MANUAL

# KUBOTA ROTARY MOWER

MODELS RC60-25  
RC72-25  
RC72-28  
RC72-29  
RC72-36



G-2006

READ AND SAVE THIS BOOK

**Kubota**



## SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the mower itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

## ABBREVIATION LIST

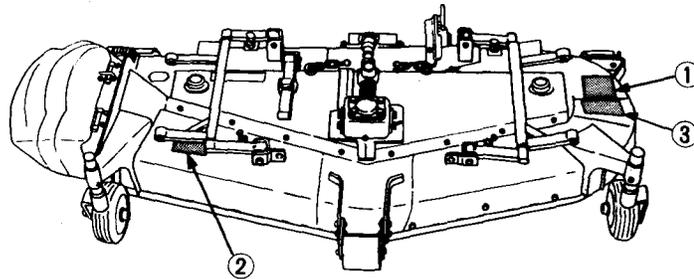
Abbreviations	Definitions
PTO	Power Take Off
SAE	Society of Automotive Engineers
r/s	Revolutions Per Second
rpm	Revolutions Per Minute
fpm	Feet Per Minute
m/s	Meters Per Second
ROPS	Roll-Over Protective Structures
RH	Right Hand
LH	Left Hand
2WD	Two Wheel Drive
4WD	Four Wheel Drive
Hi-Lo	High speed—Low speed
DT	Dual Traction [4WD]

# **SAFE OPERATION**

Careful operation is your best insurance against an accident. Read this section carefully before operating the mower. All operators, no matter how much experience they may have had, should read this and other related manuals before operating mower. It is the owner's legal obligation to instruct all operators in safe operation.

1. Keep bystanders at a safe distance from the machine during mowing operations.
2. Prior to mowing operations, clear area to be mowed of all objects which might be picked up and thrown by the mower. Mow only in daylight or in good artificial light.
3. Do not wear loose clothing while operating the mower. Loose clothing could become entangled in moving parts, causing personal injury.
4. Do not stand on the mower.
5. Before dismounting the tractor:
  - a) Shut off the engine,
  - b) remove the key,
  - c) set the parking brake,
  - d) allow the blades to stop.
6. Securely tighten all hardware before operating the mower.
7. Read this manual and the tractor operator's manual before operating mower. Allow only a properly trained person to operate the tractor.
8. Before starting the engine, disengage the MID PTO and shift the tractor transmission into neutral.
9. Hillside operation is dangerous and is not recommended. If it is necessary to mow on a hillside, use extreme caution. Never mow across the face of a slope.
10. While making turns in rough terrain, reduce tractor speed.
11. Upon striking a foreign object, stop and inspect the tractor and the mower for damage. Repair the damage before resuming equipment operation.
12. If the mower discharge chute becomes clogged, stop the tractor; disengage the mower drive; shut off the engine and remove the key, and clean out the deflector before continuing.
13. Know how to stop the mower and engine quickly. Be prepared for any emergency situation.
14. When mowing in rough terrain or in high grass, set the mower at the highest cutting level to reduce the possibility of the mower striking debris or hidden objects.
15. Before operating the tractor in reverse, look to see if the area is clear of all objects.
16. Do not operate the mower without all shields and guards in place.
17. Kubota recommends the use of ROPS and seat belt in almost all applications. Always use seat belt when the tractor is equipped with a ROPS. Never use the seat belt when the tractor is not equipped with a ROPS.
18. Never attempt to make adjustment or repairs of any kind while the tractor and mower are running. Shut off the engine, remove the key and allow the blades to stop.
19. Replace damaged or illegible safety decals. See next page for required labels.
20. Do not operate rear-PTO driven implements and mid-PTO driven mower at the same time.

## MOWER SAFETY LABELS

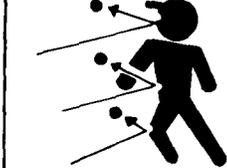


G-3038改

**LABEL ②** Part No. 66071-6178-1

# ! DANGER





1. STAY CLEAR OF DISCHARGE OPENING AT ALL TIMES.
2. DO NOT PUT HANDS OR FEET INTO MOWER WHEN ENGINE IS RUNNING.
3. DO NOT OPERATE MOWER WITHOUT DISCHARGE DEFLECTOR.

66071-61781

**LABEL ①** Part No. 70720-4715-4

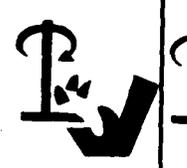
# ! CAUTION

1. Keep all shields in place.
2. Stop engine and wait until blade stops before leaving operator position.
3. Keep hands, feet and clothing away from all moving or rotating parts.
4. Make sure area of operation is clear of all persons and foreign objects.
5. Stop mower blades when crossing gravel drives walks or roads.

70720-47154

**LABEL ③** Part No. 66071-6179-1

# ! DANGER





**DO NOT PUT HANDS OR FEET INTO MOWER WHEN ENGINE IS RUNNING.**

66071-61791

### CARE OF SAFETY SIGNS

- (1) Keep safety signs clean and free from obstructing material.
- (2) Clean safety signs with soap and water followed by drying with cloth.
- (3) Replace damaged or missing safety signs with new safety signs from your KUBOTA dealer.
- (4) If a component with safety sign(s) affixed is replaced with new part, make sure new safety sign(s) are attached in same location as replaced component.
- (5) Mount new safety signs by applying on clean dry surface and press any bubbles to outside edge.

# IMPORTANT

To obtain maximum productivity from your mower, the following items should be read and observed.

- Adjust the anti-scalp rollers according to the mowing height. Refer to the chart below.  
(RC60-25)

	FRONT WHEEL	REAR WHEEL	ANTI-SCALP ROLLER
CUTTING HEIGHT			
1 1/2 in.	C — X	1	I
2 in.	C — Y	2	
2 1/2 in.	B — X	3	II
3 in.	B — Y	4	
3 1/2 in.	A — X	5	III
4 in.	A — Y	6	

(Only for RC72)

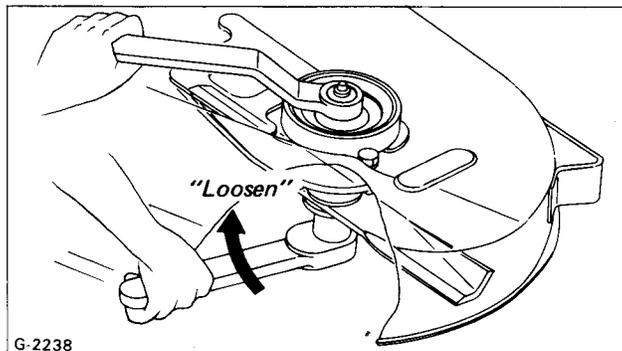
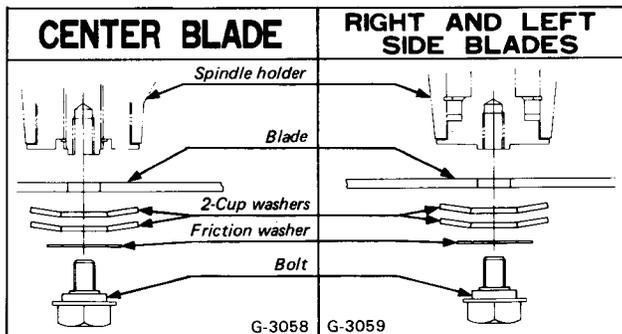
	FRONT WHEEL	REAR WHEEL	ANTI-SCALP ROLLER
CUTTING HEIGHT			
1 1/2 in.	D — Y	1	I
2 in.	C — X	2	
2 1/2 in.	C — Y	3	II
3 in.	B — X	4	
3 1/2 in.	B — Y	5	III
4 in.	A — X	6	
4 1/2 in.	A — Y	7	

76550 4/1/42

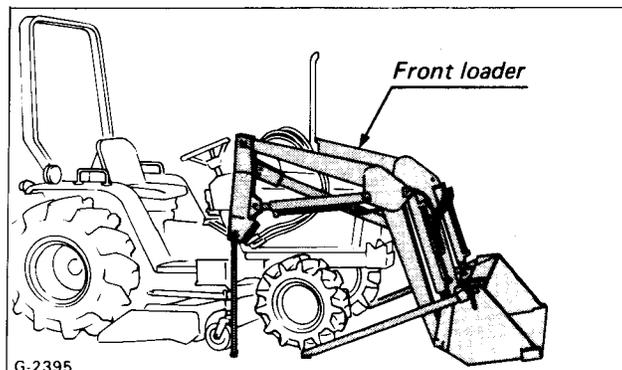
- Use the 2nd mid PTO speed of the tractor.  
(Read item 7.3 on page 16) (for RC60-25, RC72-25, RC72-28)
- Before attaching the mower connecting rod, make sure the length (L) of the mower connecting rod is approximately.
  - 900 mm (35 3/8 in.) ..... RC60-25, RC72-25  
RC72-29, RC72-36
  - 870 mm (34 1/4 in.) ..... RC72-28
 (Read item (10) on page 12)
- Grease the following parts every 50 hours:
  - A. Universal Joint
  - B. Gauge Wheel (Front, Rear)
  - C. Three Spindle Cases
  - D. Fulcrum of the Belt Tension Lever
- Check the length of the belt tension pulley spring. (Read item 8.3 on page 21)
- Remove the belt shield from the mower deck and clean out debris every 150 hours.

- When replacing the mower deck belt,
  - Before removing the right hand bracket, loosen the tension screw.
  - Before retightening the tension screw, attach the right hand bracket securely.
 (Read item 8.3 on page 21)

- When replacing the blades, follow the instructions as shown below. (Read item 8.2 on page 20)



- [CAUTION]**
- WHEN OPERATING THE LOADER IN ROUGH TERRAIN, REMOVE THE MOWER TO AVOID UNEXPECTED DAMAGE OF MOWER.
  - WHEN OPERATING THE MOWER ON A HILLSIDE, BE SURE TO REMOVE THE LOADER TO REDUCE THE RISK OF ROLL OVER.



# CONTENTS

<b>1. Foreword</b> .....	1	<b>6. Mower adjustments</b> .....	14
<b>2. Service</b> .....	2	6.1 Adjusting the mower connecting rod ....	14
<b>3. Introduction</b> .....	2	<b>7. Operation</b> .....	15
3.1 Specifications.....	2	7.1 Making the most of your mower.....	15
3.2 Suitable tires.....	3	7.2 Cutting height .....	15
3.3 Mower terminology.....	4	7.3 Operating mower .....	16
<b>4. Setting up</b> .....	5	7.4 Using 3 points hitch implements and front loader.....	16
4.1 Pre-assembly.....	5	<b>8. Maintenance</b> .....	18
4.2 Setting up the mower.....	5	8.1 Periodic lubrication and maintenance check.....	18
4.3 Change the water drain plug (Only for RC72-29, RC72-36).....	7	8.2 Blade replacement.....	20
4.4 Mounting the hanger bracket to the tractor .....	7	8.3 Belt replacement.....	21
4.5 Mounting the hanger bracket to the tractor with front loader (Models LA450, LA480, LA650, LA680) ....	9	8.4 Tightening torque chart.....	21
<b>5. Mounting to the tractor</b> .....	10	<b>9. Troubleshooting</b> .....	22
		<b>10. Long-term storage</b> .....	23
		10.1 Winter storage .....	23

## 1. FOREWORD

Thank you for your purchase of a new KUBOTA Rotary Mower.

This new KUBOTA Mower has been developed to provide the optimum combination of power output and fuel economy with consideration for human requirements. As KUBOTA is constantly seeking ways to improve its products, the rotary mower which you have purchased may differ slightly from the specifications in this manual. Please make yourself familiar with this instruction manual before installing or operating your mower so that it will give you maximum service life and performance.

If you have any questions or problems regarding your mower, contact your nearest KUBOTA dealer.

## 2. SERVICE

- (1) When in need of parts or of service, give the serial number of the Mower to the dealer.
- (2) The serial number is located on the right side of the deck.
- (3) For your reference, please record the serial number in the space provided.

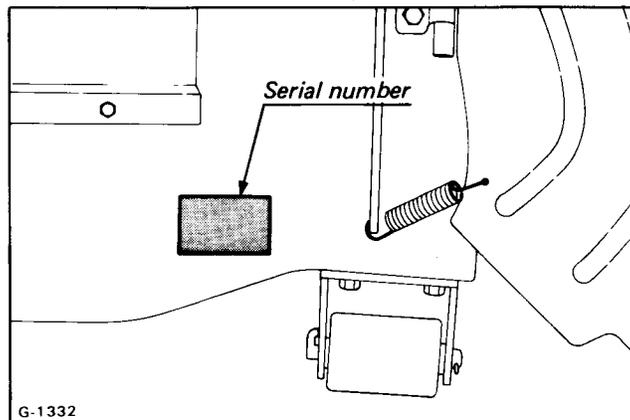
KUBOTA MOWER

MODEL \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

NAME OF DEALER \_\_\_\_\_



## 3. INTRODUCTION

### 3.1 SPECIFICATIONS

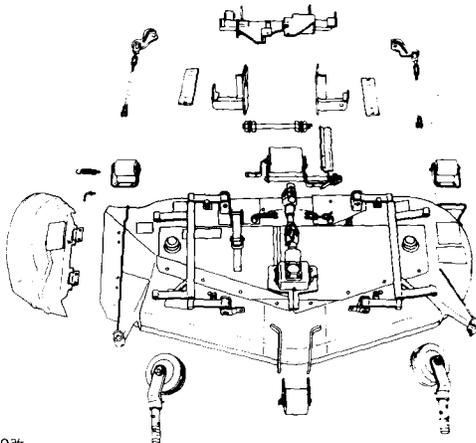
Model	RC60-25	RC72-25	RC72-28	RC72-29	RC72-36
Suitable tractor	L2650	L2650, L2950	L3450	L2900, L3300	L3600
Mounting method	Pantograph linkage				
Adjustment of cutting height	Gauge wheel				
Cutting height	mm (in.)	38 to 102 (1.5 to 4.0)	38 to 115 (1.5 to 4.5)		
Cutting width	mm (in.)	1520 (60)	1826 (72)		
Weight (Approx.)	kg (lbs.)	150 (331)	216 (476)		
Blade spindle speed	r/s (rpm)	49.8 (2986)	41.8 (2509)		
Blade tip velocity	m/s (fpm)	81.3 (16000)	82.1 (16160)		
Blade length	mm (in.)	520 (20.5)	625 (24.6)		
Number of Blades	3				
Dimensions	Total length	mm (in.)	1034 (40.7)	1210 (47.6)	
	Total width	mm (in.)	1840 (72.4)	2250 (88.6)	
	Total height	mm (in.)	356 (14.0)	430 (16.9)	

# 4. SETTING UP

When the mower is shipped, some of the parts are removed and packed separately. Read the following procedure to properly assemble the mower.

## 4.1 PRE-ASSEMBLY

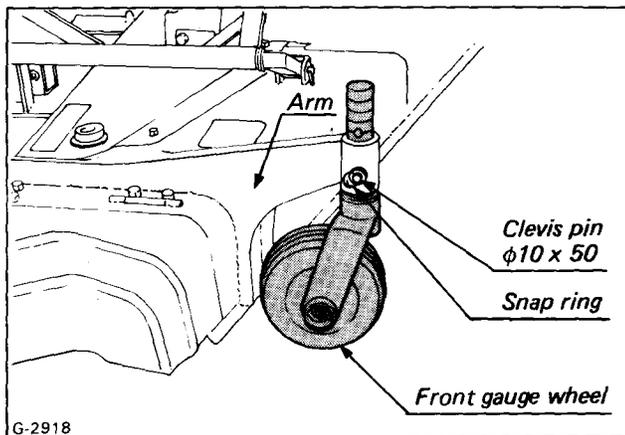
Take out all mower components from the case and check the parts by the illustration.



G-2009改

## 4.2 SETTING UP THE MOWER

- (1) Attach the front gauge wheels to the arms of the deck with the clevis pins and snap pins.

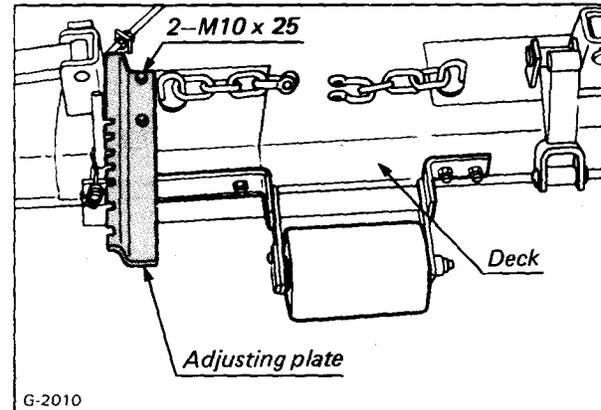


G-2918

### [NOTE] (Only for RC72)

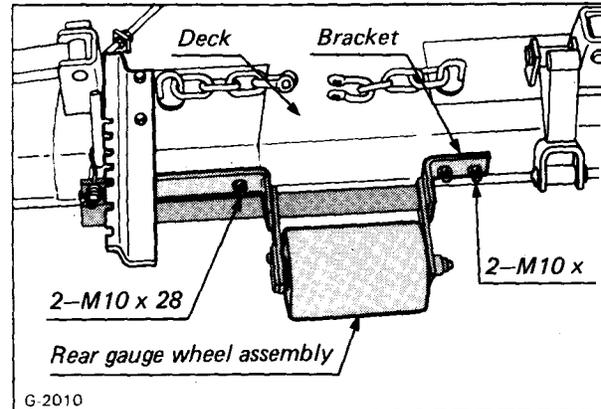
- To mount the mower to the tractor easily, attach only the right gauge wheel at this time. [Refer to item 5 (1), (3) on page 10]

- (2) Attach the adjusting plate to the deck with 2-M10 bolts, spring washers and nuts.



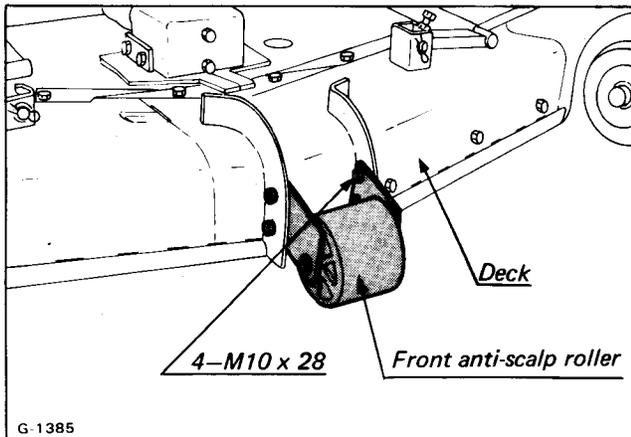
G-2010

- (3) Attach the bracket to the deck with M10 bolts, plain washers, spring washers and nuts. Then attach the rear gauge wheel assembly to the deck with M10 bolts, spring washers and nuts.



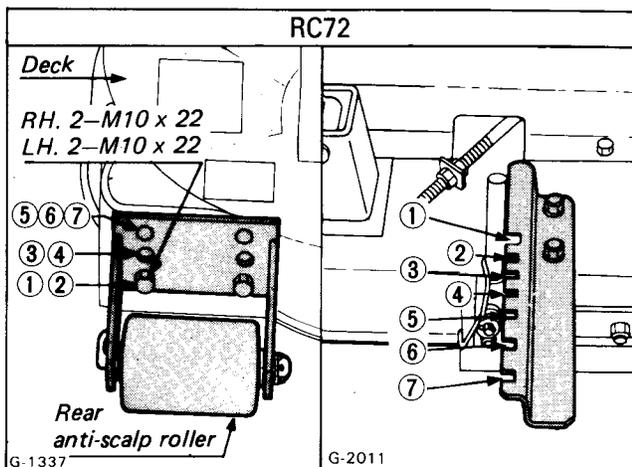
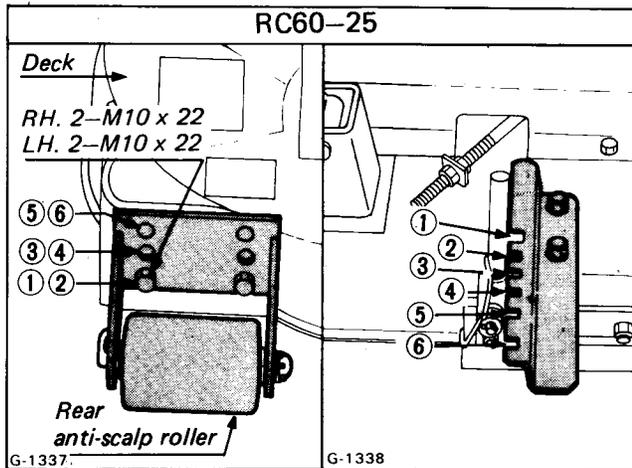
G-2010

- (4) Attach the front anti-scalp roller to the deck with M10 bolts, spring washers and nuts.



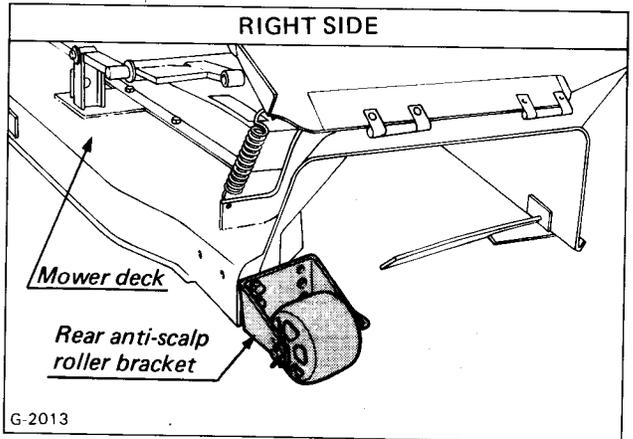
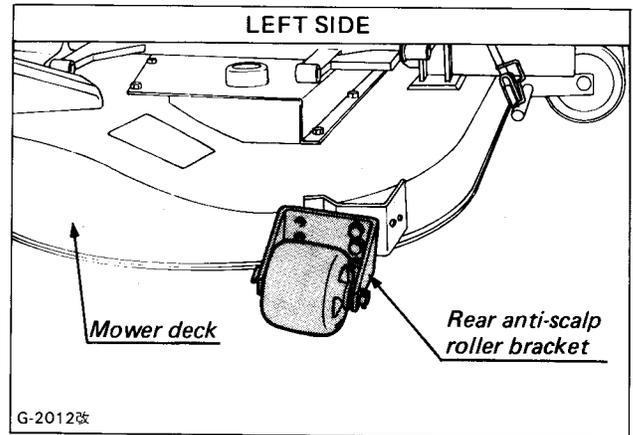
- (5) Attach the rear anti-scalp roller to the deck with M10 bolts, and spring washers.

The three mounting holes in the rear anti-scalp roller bracket correspond to the cutting heights as shown in the figure below. Select the proper mounting holes to obtain the desired cutting height.



**[NOTE] (Only for RC72)**

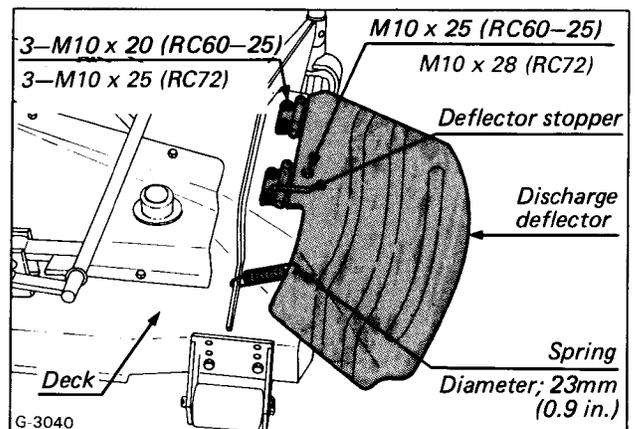
- To mount the mower to the tractor easily, attach the rear anti-scalp roller bracket to the mower deck as illustrated. [Refer to item 5 (1), (3) on page 10]



- (6) Attach the discharge deflector and deflector stopper to the deck with M10 bolts, spring washers and nuts. Secure the spring to the discharge deflector as illustrated.

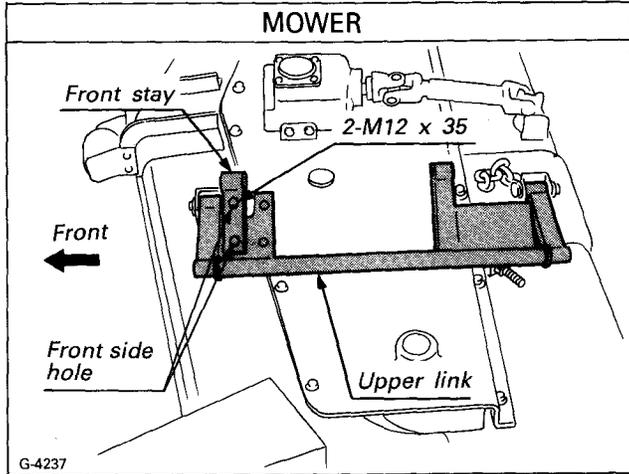
**[NOTE]**

- Deflector stopper should be set as shown for mowing operation.

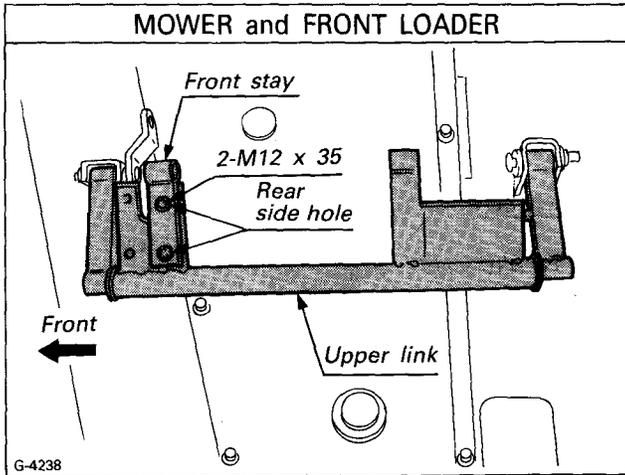


(7) Install the front stay to the upper link with M12 bolts. (Only for RC72-29)

- When using mower only:  
Use front side hole as illustrated.

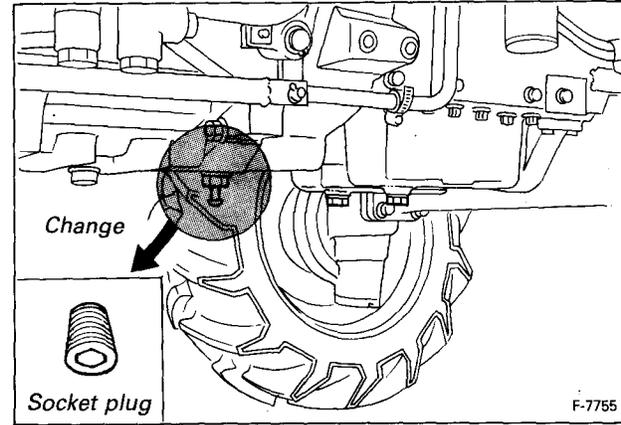


- When using mower with front loader:  
Use rear side hole as illustrated.



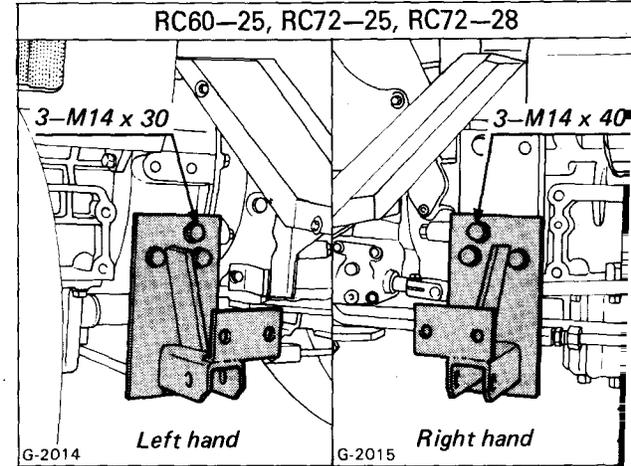
### 4.3 CHANGE THE WATER DRAIN PLUG (Only for RC72-29, RC72-36)

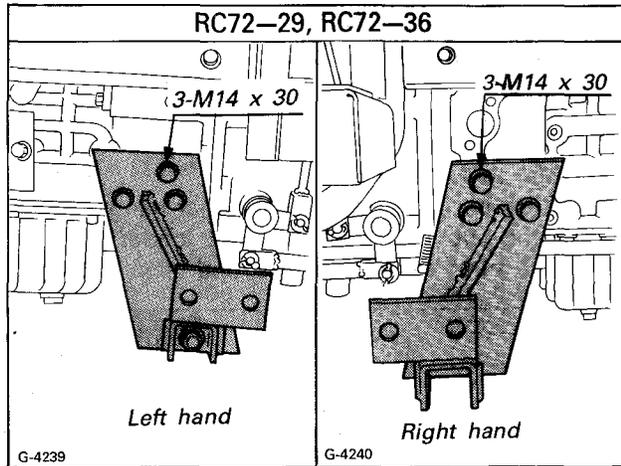
Remove the drain plug, then install the new socket plug.



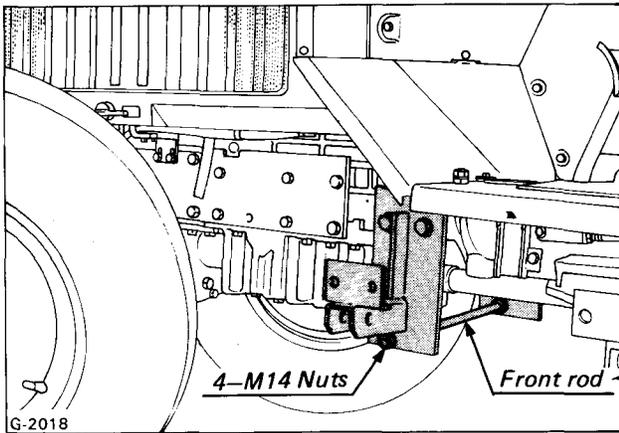
### 4.4 MOUNTING THE HANGER BRACKET TO THE TRACTOR

(1) Attach the front hanger brackets (LH front, RH front) to the tractor with the M14 bolts, and spring washers.

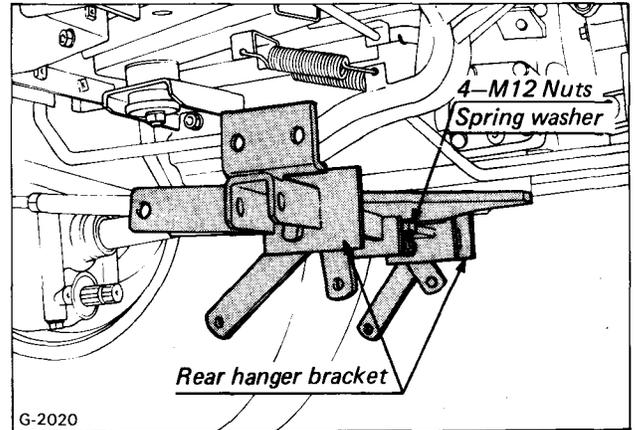
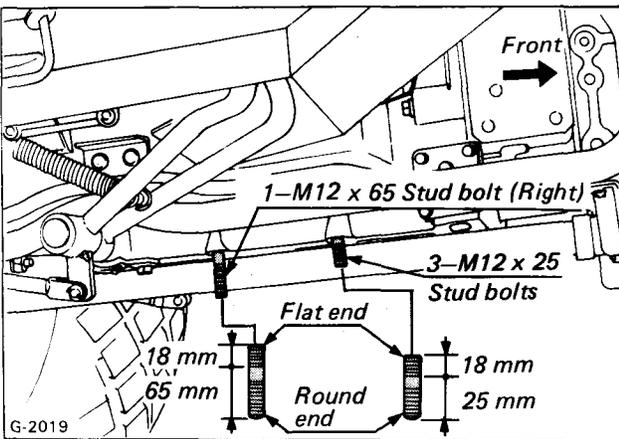




(2) Attach the front rod to the front hanger brackets with M14 nuts and spring washers.

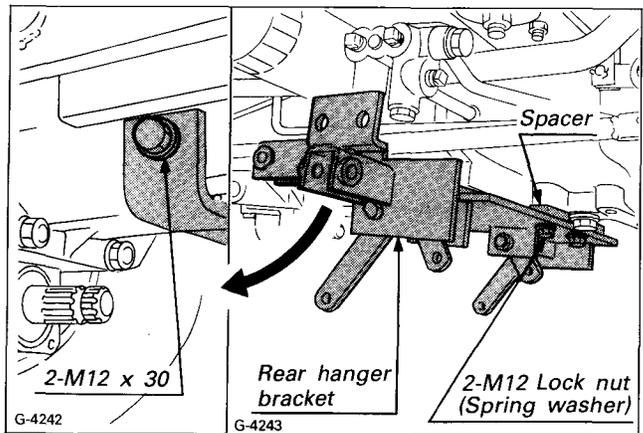
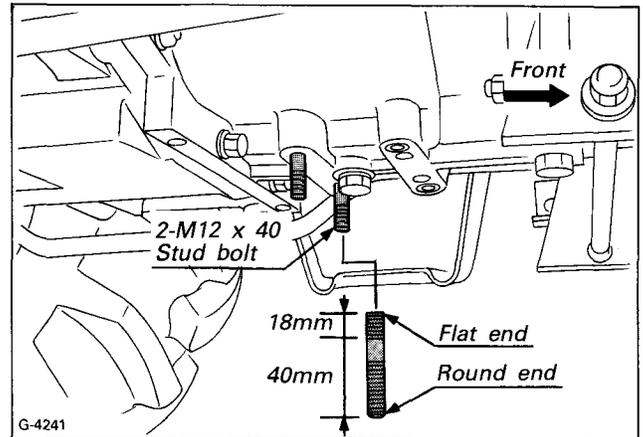


(3) [Only for RC60-25, RC72-25, RC72-28] Attach the rear hanger bracket to the tractor.

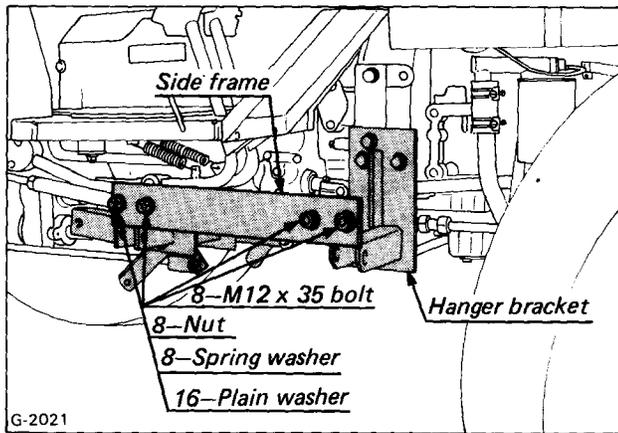


[Only for RC72-29, RC72-36]

Put spacer on stud bolt and install the rear hanger bracket to the tractor.



- (4) Attach the side frame (LH, RH) to the hanger brackets with M12 bolts, nuts, spring washers, and plain washers.



#### 4.5 MOUNTING THE HANGER BRACKET TO TRACTOR WITH FRONT LOADER (MODELS LA450, LA480, LA650, LA680)

- (1) Attach the rear hanger bracket to the tractor. Refer to 4.4 (3).
- (2) Attach both side stays of the rear hanger bracket to the sub frame of the front loader with M12 bolts, nuts, spring washers, and plain washers.

