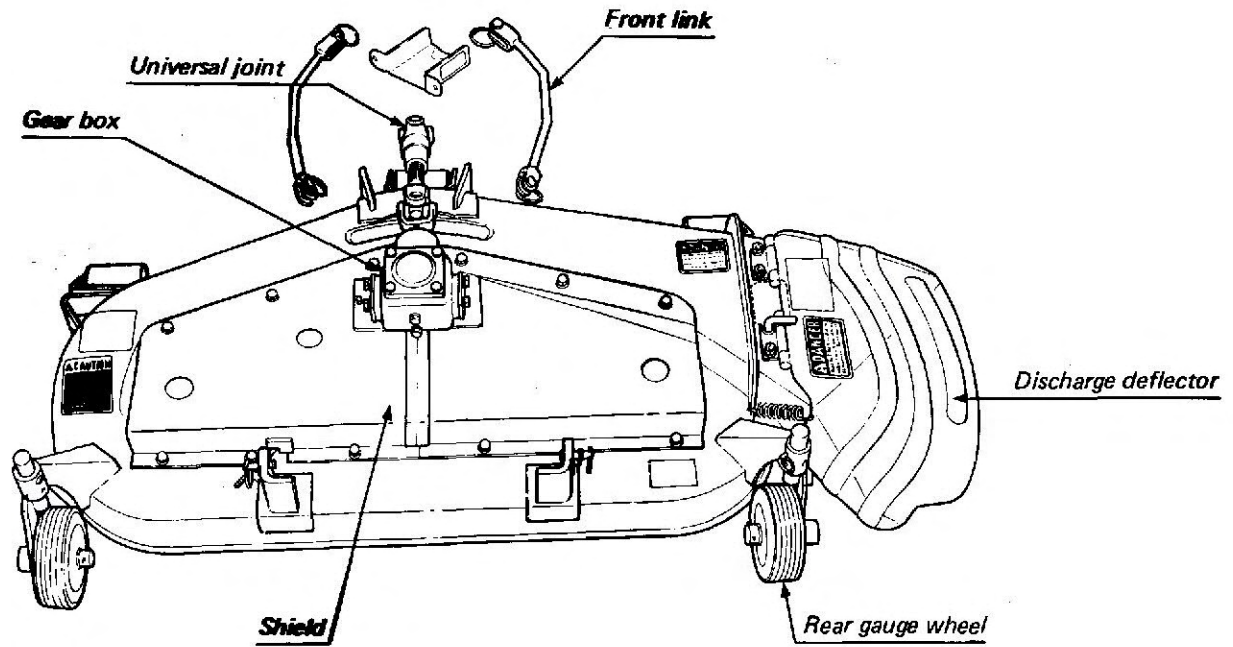
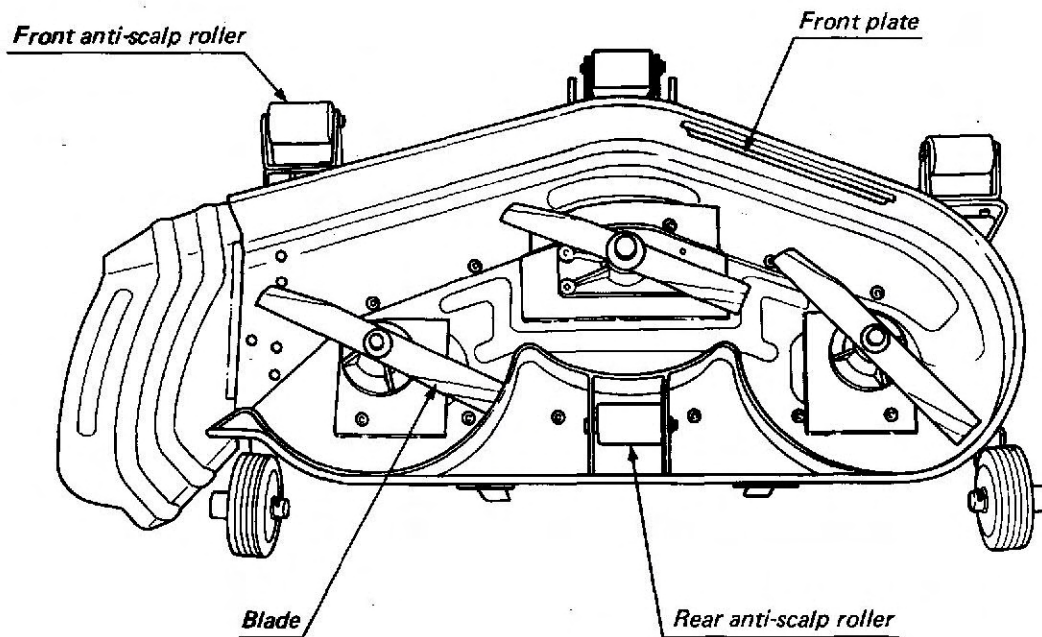


3.2 MOWER TERMINOLOGY



F-2995



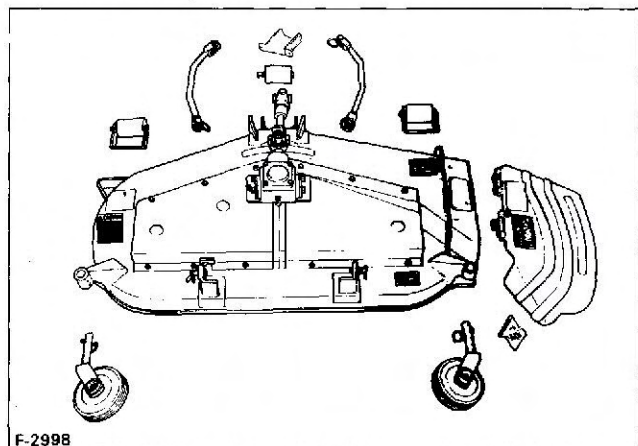
F-2997

4. SETTING UP

When the RC40-G, RC44-G or RC48-G is shipped, some of the parts are removed and packed separately. Read the following procedure to properly assemble the mower.

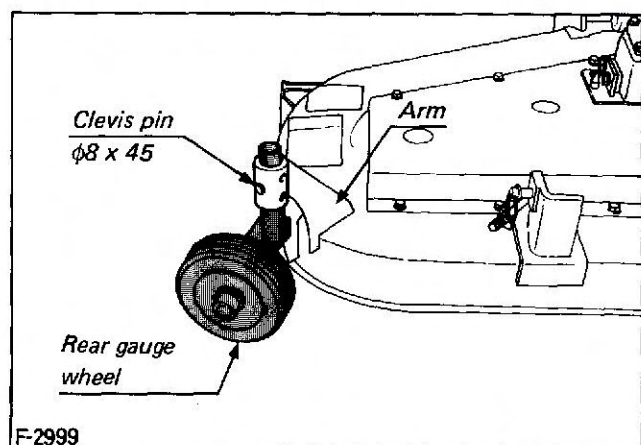
4.1 PRE-ASSEMBLY

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

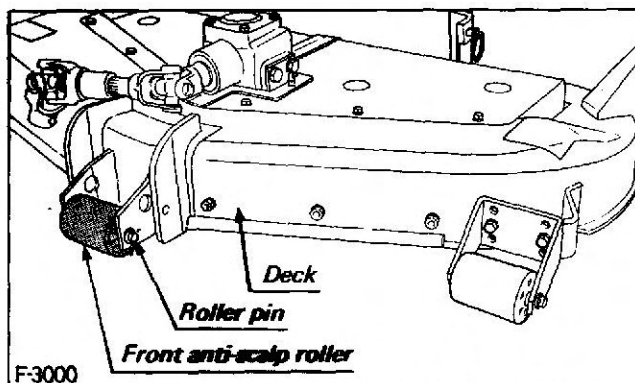


4.2 SETTING UP THE MOWER

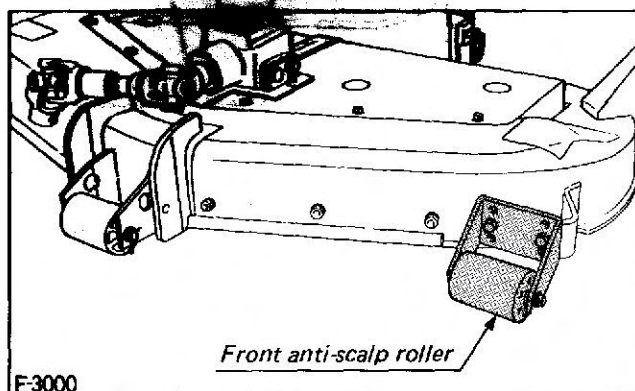
- (1) Attach the rear gauge wheels to the arms of the deck with the clevis pins.



- (2) Attach the front anti-scalp roller to the deck with roller pin, plain washer and cotter pin.



- (3) Attach the front anti-scalp rollers to the deck with M10 x 22 bolts (RC40-G, RC48-G) or M10 x 25 bolts (RC44-G).



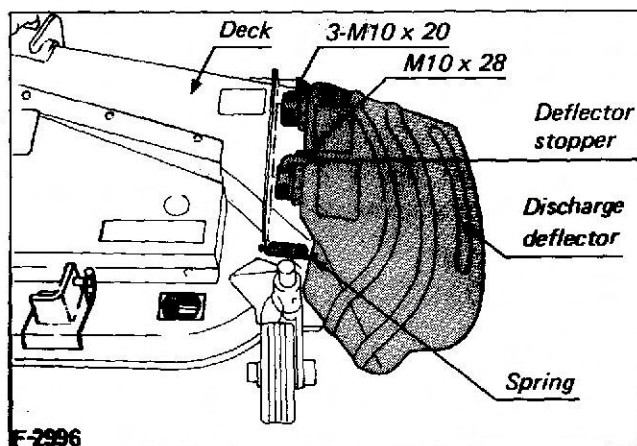
The three mounting holes in the front anti-scalp roller bracket correspond to the cutting heights as shown in the figure below. Select the proper mounting holes to obtain the desired cutting height.

	REAR WHEEL	ANTI-SCALP ROLLER
CUTTING HEIGHT		
36mm (1.4in.)	X - D	1
45mm (1.8in.)	Y - E	1
54mm (2.1in.)	X - C	1
63mm (2.5in.)	Y - D	2
72mm (2.8in.)	X - B	2
81mm (3.2in.)	Y - C	3
90mm (3.5in.)	X - A	3

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

[NOTE]

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



5. MOUNTING TO THE TRACTOR

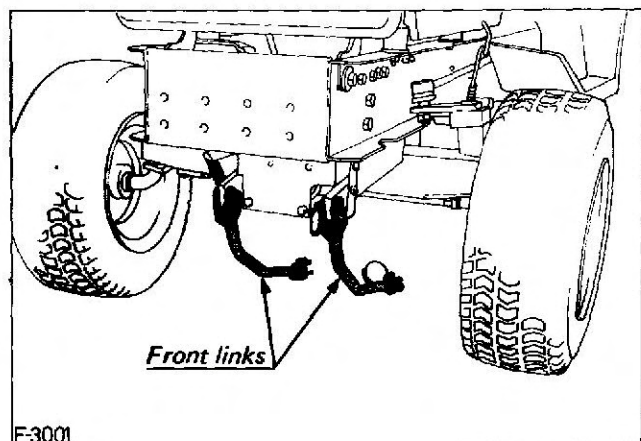
- (1) Park the tractor on level ground and place the mower at the right side of tractor.



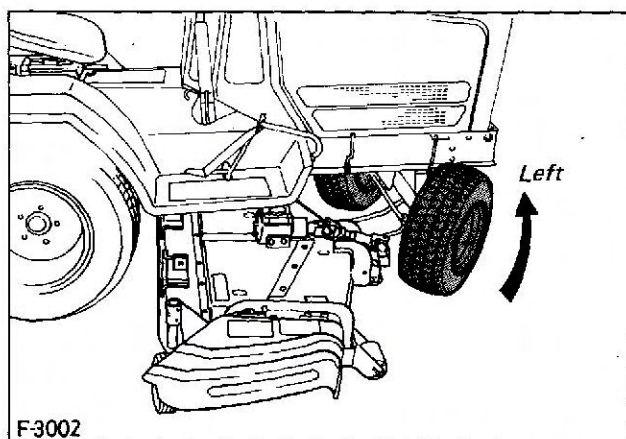
[CAUTION]

- SHUT OFF THE ENGINE AND REMOVE THE KEY.

- (2) Attach both front links to the tractor with clevis pins, plain washers and snap rings as illustrated.



- (3) Turn the front wheels to the left. Pull the mower under the tractor from the left, then return the front wheels straight.



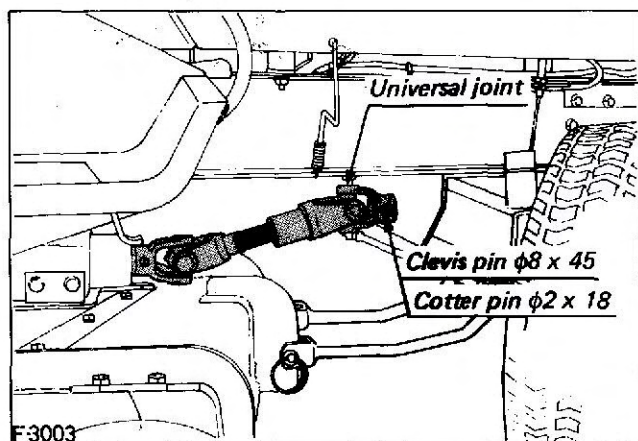
- (4) Slide the universal joint onto the front P T O shaft and secure it with the clevis pin, plain washer and cotter pin.

[NOTE]

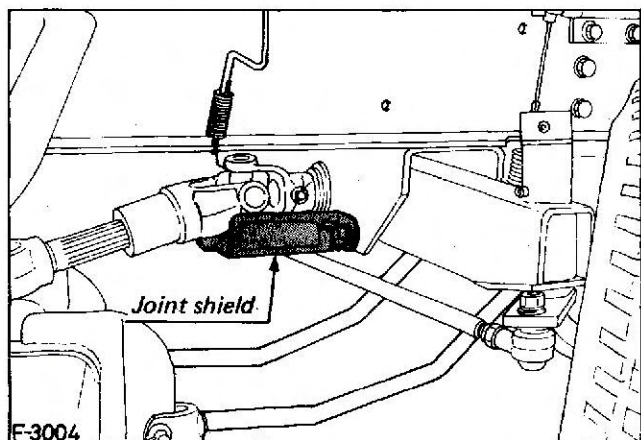
- The shaft has a master spline to prevent incorrect alignment.

[IMPORTANT]

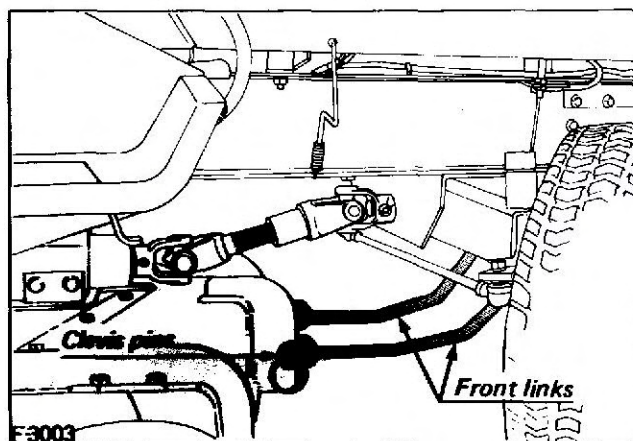
- **SPREAD THE COTTER PIN COMPLETELY.**



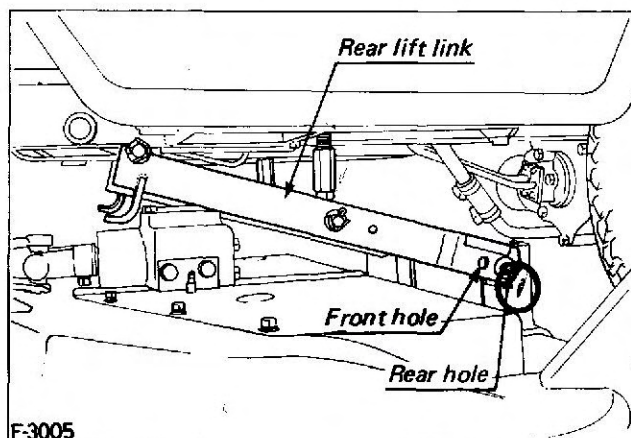
- (5) Attach the joint shield to the tractor with wing bolts, lock washers and plain washers.



- (6) Attach both front links to the mower deck with clevis pins, plain washers and snap rings as illustrated.



- (7) Attach the mower deck to the rear lift link with clevis pins, plain washers and snap rings.



[NOTE]

- Use front hole RC40-G, RC48-G.
- Use rear hole RC44-G.

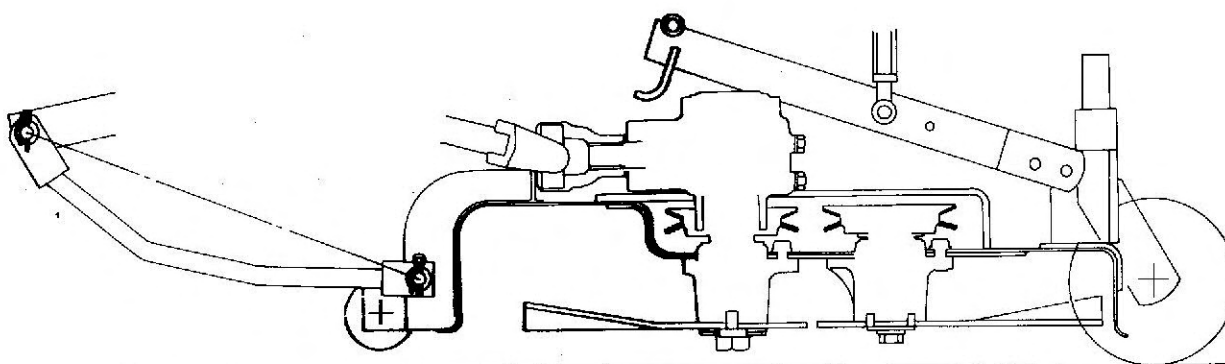
6. MOWER ADJUSTMENTS

6.1 ADJUSTING THE PARALLEL LINKAGE



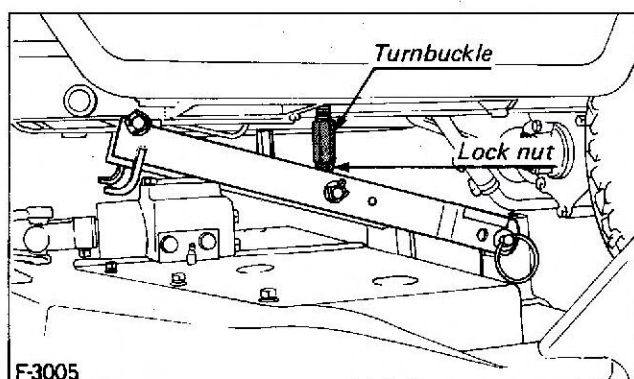
[CAUTION]

- SHUT OFF THE ENGINE AND ALLOW THE BLADES TO STOP BEFORE MAKING ADJUSTMENTS.

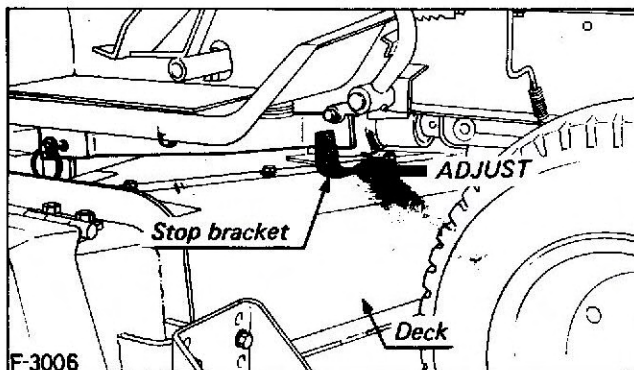


F-3048

- (1) Adjust the length of both lift rods with the turnbuckles until the stop bracket just contact the mower deck at the maximum lifting position of the mower, then secure the turnbuckles with locknuts.

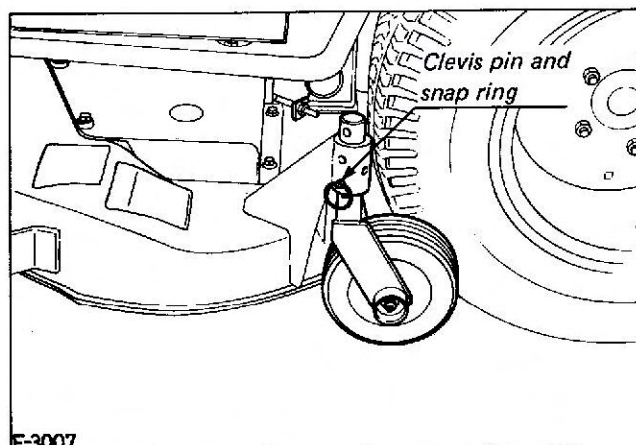


F-3005



F-3006

- (2) Reattach the rear gauge wheels to the arms of the deck with the clevis pins and snap rings as illustrated.



F-3007

7. OPERATION

7.1 MAKING THE MOST OF YOUR MOWER

- (1) When using your mower for the first time, choose a smooth level area and cut in straight and slightly overlapping strips.
- (2) The size and type of the area to be mowed will determine the proper mowing pattern. Take into account obstructions, such as trees, fences and buildings. To keep grass cuttings off fences, sidewalks, etc., it is advisable to go over the outside of the area to be mowed several times in a clockwise direction. To mow the area remaining, work in a counterclockwise direction so the cuttings are dispersed onto the previously cut area.
- (3) Always keep the left side of the mower toward trees, posts or other obstacles on the first trip around the obstacle.
- (4) Most lawns should be mowed to keep the grass approximately 5 to 8cm (2 to 3 in.) high. Best results are obtained by cutting often and not too short. To keep a green lawn, never mow more than one third off the height of the grass or a maximum of 2.5cm (1 in.) in one mowing. For extremely tall grass, set the cutting height at maximum for the first mowing, then reset to the desired height and mow again. Allow the grass to grow to three inches, then cut off only the top inch.
- (5) On thick or springy grass or soft ground, the mower rollers may sink into the ground giving too low a cut. Adjust the cutting height to get the desired height of cut.
- (6) For best appearance, grass should be cut in the afternoon when it is free of moisture.

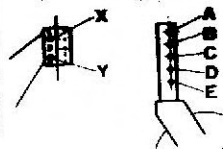
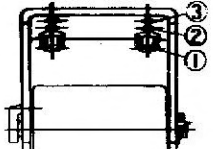
7.2 CUTTING HEIGHT



[DANGER]

• NEVER OPERATE MOWER IN TRANSPORT POSITION.

- (1) To set the cutting height, adjust both of the rear gauge wheels and the front anti-scalp rollers as shown in the figure below. Cutting height can be adjusted from 36mm to 90mm (1.4 in. to 3.5 in.). The recommended cutting height is approximately 54mm (2.1 in.).

	REAR WHEEL	ANTI-SCALP ROLLER
CUTTING HEIGHT		
36mm(1.4in.)	X - D	1
45mm(1.8in.)	Y - E	1
54mm(2.1in.)	X - C	1
63mm(2.5in.)	Y - D	2
72mm(2.8in.)	X - B	2
81mm(3.2in.)	Y - C	3
90mm(3.5in.)	X - A	3

- (2) Lower the mower deck by pushing the manual control lever forward. This lowers the mower deck from the transport position to the operating position.
- (3) Use the higher setting for mowing in a rough area or when mowing high grass. Lower setting should be used only for smooth lawns where short grass is desired.

7.3 OPERATING MOWER



[DANGER]

- DO NOT OPERATE MOWER WITHOUT DISCHARGE DEFLECTOR PROPERLY BOLTED IN PLACE.



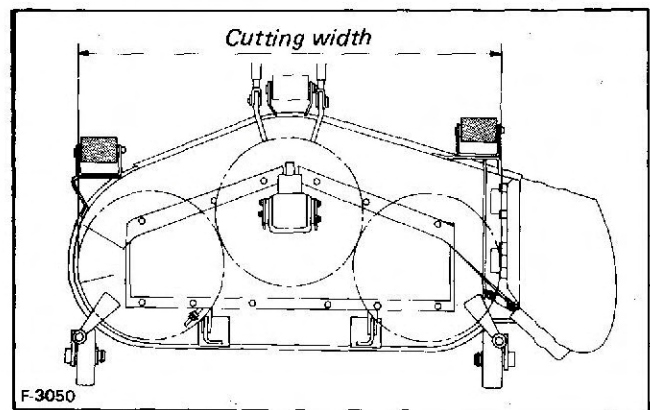
[CAUTIONS]

- CLEAR THE WORK AREA OF OBJECTS WHICH MIGHT BE PICKED UP AND THROWN BY BLADES.
- DO NOT DIRECT THE OPENING OF THE DEFLECTOR AT BYSTANDERS OR ANIMALS. EJECTED OBJECTS MAY CAUSE INJURY. PLAN YOUR MOWING CAREFULLY BEFORE STARTING OPERATIONS.
- KEEP BYSTANDERS AND ANIMALS AWAY FROM THE MOWING AREA.
- BE SURE TO DISENGAGE THE FRONT PTO AND SIT ON THE SEAT BEFORE STARTING THE TRACTOR ENGINE.

- (1) Keep the engine running at full throttle for best results. Control ground speed by changing gear shift lever or using the control pedal of the tractor.
- (2) During heavy duty use, operate the tractor at a slower ground speed or go over the area twice.
- (3) Keep the mower deck and gauge wheels in the raised position when the mower is not being used.
- (4) The mower will not cut cleanly if the ground speed is too high or if the blade speed drops due to an overload.

[NOTE]

- To prevent the engine from overheating, keep the tractor's radiator net clean.
- (5) Cutting width is the outside of the front anti-scalp roller.



8. MAINTENANCE

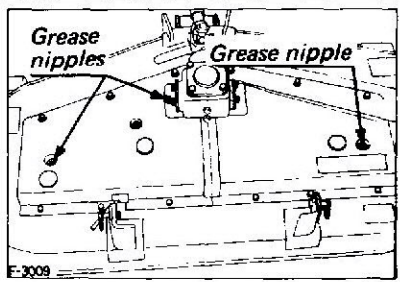
8.1 PERIODIC LUBRICATION AND MAINTENANCE CHECK



[CAUTION]

- STOP THE ENGINE AND REMOVE THE KEY.

Interval	Item	Remarks	
Break in period	Change oil in gear box after the first 50 hrs. of operation.		
Daily checks (before use)	1. Anything unusual in previous day's operation.		
	2. Oil leakage.		
	3. Make sure blade capscrews are tight.		
	4. Check wear of blades.		
	5. Check all hardware.	Tighten if loose.	
	6. Make sure all pins are in place.		
Every 25 hrs.	Check belt tension.	The length of tension spring should be: 150mm (5.9 in.) ··· RC40-G, RC48-G 135mm (5.3 in.) ··· RC44-G	Refer to 8.3 BELT REPLACEMENT
Every 50 hrs.	1. Check oil level in gear box.	Place mower on level surface. Loosen check plug. Oil should seep from the opening. If low, add oil. (Use SAE 90 gear oil)	Lubrication cap Check plug (Bolt) Drain plug (Bolt) F-3008
	2. Grease internal splines and grease nipples of universal joint.	(Use SAE multipurpose grease)	Spline Grease nipple G-1398
	3. Grease wheels.	Grease nipples of rear gauge wheels. (Use SAE multipurpose grease.)	Grease nipple F-3007

Interval	Item	Remarks	
Every 50 hrs.	4. Grease three spindle shafts.	Grease nipples under cap.	
Every 150 hrs.	1. Clean mower deck beneath shield.	1. Remove shield. 2. Remove grass clippings, chaff and debris from the top of the mower deck. 3. Reinstall shield.	
	2. Change gear oil.	1. Remove drain plug and drain oil. 2. Refill with 0.30 l (0.32 U.S. qt.) of SAE 90 gear oil.	

- [NOTE] (1) Use SAE 90 gear oil in all seasons.
 (2) Change oil in gear box after first 50 hrs. and every 150hrs. thereafter.
 (3) Check oil level of gear box before operation.
 (4) After checking above items, if you find out any worn, damaged or missing parts, replace them.

8.2 BLADE REPLACEMENT



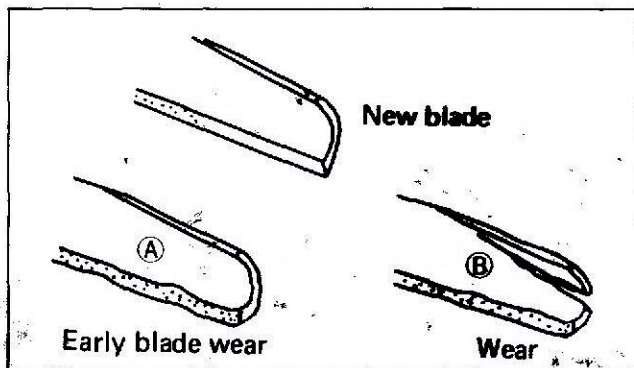
[CAUTION]

- ALWAYS HANDLE THE BLADE WITH CARE TO AVOID INJURY.

[IMPORTANT]

- THE BOLT (BLADE) HAS R.H. THREADS. TURN IT COUNTERCLOCKWISE TO LOOSEN.

The blade cutting edges should be kept sharp at all times. Sharpen the cutting edges if they resemble the blade in figure (A). Replace the blades if they appear similar to the blade as shown in figure (B).

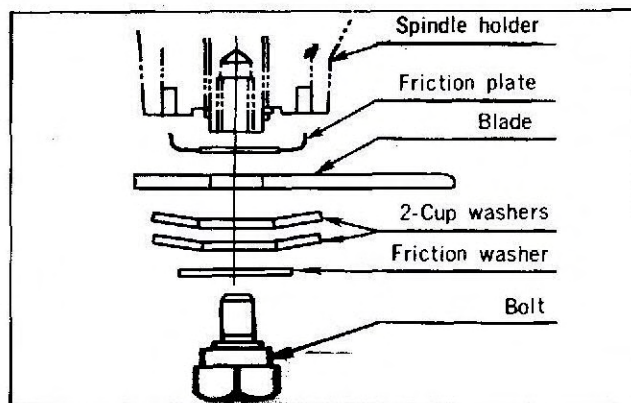


- (1) Remove the mower from the tractor and turn it over to expose the blades.
- (2) To remove the blades, securely wedge a block of wood between one blade and the housing, in such a position that it will safely hold the blade while loosening or tightening the blade mounting bolts.

[NOTE]

- Use the proper metric size box or socket wrench to tighten or loosen the blade mounting bolt.
- (3) To sharpen the blades yourself, clamp the blade securely in a vise. Use a large mill file and file along the original bevel until sharp.
 - (4) To check the blade for balance, place a small rod through the center hole. If the blade is not balanced, file the heavy side of the blade until balance is achieved.

- (5) To attach the center blade, be sure to install the friction plate between the blade and spindle and then the friction washer and two cup washers between the blade and bolt head.



[NOTE]

- Make sure the cup washer is not flattened out or worn, causing blade to slip easily. Replace both cup washers and friction washer if either is damaged.

[IMPORTANT]

- TIGHTEN THE BOLT OF CENTER BLADE TO 10 TO 12 kgf-m (72 TO 87 ft-lbs.) OF TORQUE.

The wording blacked out above states the following:

NOTE:

Make sure the cup washer is not flattened out or worn, causing blade to slip easily. Replace both cup washers and friction washer if either is damaged.

8.4 TIGHTENING TORQUE CHART

Size	No mark			7T		
	ft·lbs.	N·m	kgf·m	ft·lbs.	N·m	kgf·m
M 8	13.0 ~ 15.2	17.7 ~ 20.6	1.80 ~ 2.10	17.4 ~ 20.3	23.5 ~ 27.5	2.40 ~ 2.80
M10	28.9 ~ 33.3	39.2 ~ 45.1	4.00 ~ 4.60	35.4 ~ 41.2	48.1 ~ 55.9	4.90 ~ 5.70
M12	46.3 ~ 53.5	62.8 ~ 72.6	6.40 ~ 7.40	57.1 ~ 66.5	77.5 ~ 90.2	7.90 ~ 9.20
M14	79.6 ~ 92.6	107.9 ~ 125.5	11.00 ~ 12.80	91.1 ~ 108.5	123.6 ~ 147.1	12.60 ~ 15.00

[NOTE]

- (1) Figure "7" on the top of the bolt indicates that the bolt is of special material.
- (2) Before tightening, check the figure on the top of bolt.

