

Product: Kubota RCK54-32 RCK60-32 Service Manual

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WSM

WORKSHOP MANUAL ROTARY MOWER

RCK54-32, RCK60-32

Kubota

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KiSC issued 10, 2015 A

TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the RCK54-32 and RCK60-32. It contains 4 parts: "**Information**", "**General**", "**Mechanism**" and "**Servicing**".

■ Information

This section primarily contains information below.

- Safety First
- Safety Decal
- Terminology
- Specification

■ General

This section primarily contains information below.

- Model Identification
- General Precautions
- Maintenance Check List
- Check and Maintenance

■ Mechanism

This section contains information on the structure and the function of the unit. Before you continue with the subsequent sections, make sure that you read this section.

■ Servicing

This section primarily contains information below.

- Troubleshooting
- Servicing Specifications
- Tightening Torques
- Checking, Disassembling and Servicing

All illustrations, photographs and specifications contained in this manual are of the newest information available at the time of publication.

KUBOTA reserves the right to change all information at any time without notice.

Since this manual includes many models, information or illustrations and photographs can show more than one model.

October, 2015

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I INFORMATION

INFORMATION

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1. SAFETY FIRST

SAFETY FIRST

- This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine 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 try to repair or use this unit.

DANGER

- Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

- Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

- Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

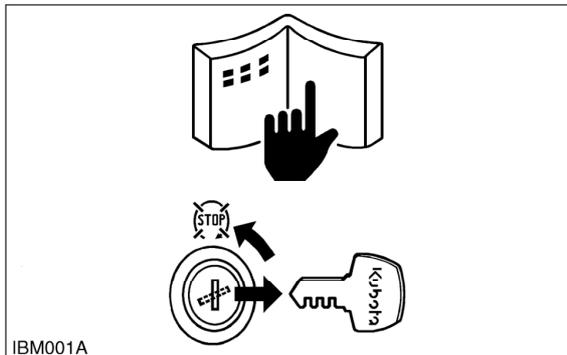
■ IMPORTANT

- Indicates that equipment or property damage could result if instructions are not followed.

■ NOTE

- Gives helpful information.

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BEFORE YOU START SERVICE

- Read all instructions and safety instructions in this manual and on your engine safety decals.
- Clean the work area and engine.
- Park the machine on a stable and level ground.
- Let the temperature of the engine decrease before you start a job.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in the operator station.

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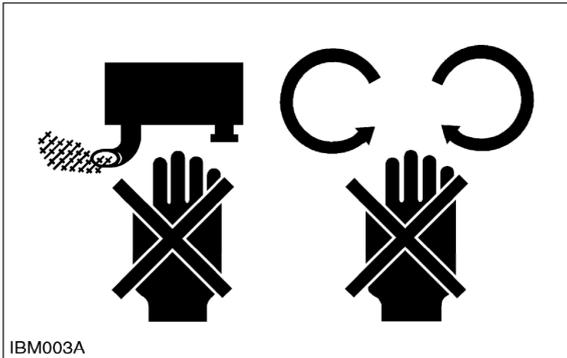


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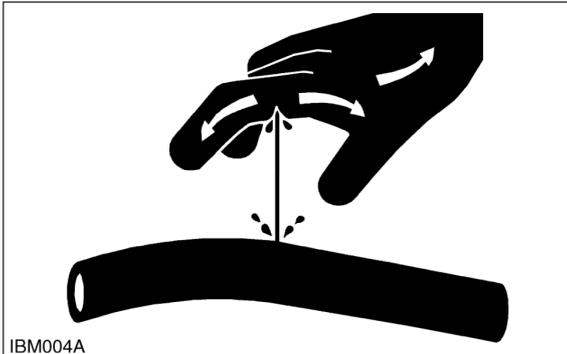
START SAFELY

- Do not do the procedures below when you start the engine.
 - short across starter terminals
 - bypass the safety start switch
- Do not make unauthorized modifications to the engine. This can cause damage and decrease the engine life.

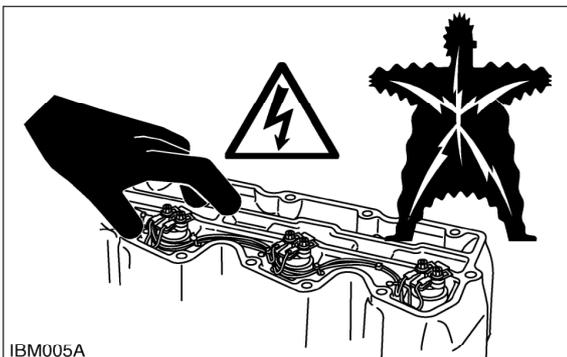
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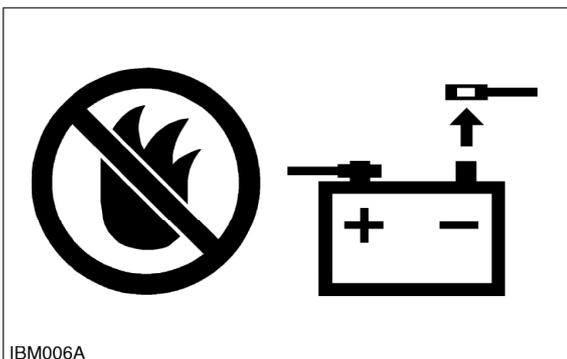
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OPERATE SAFELY

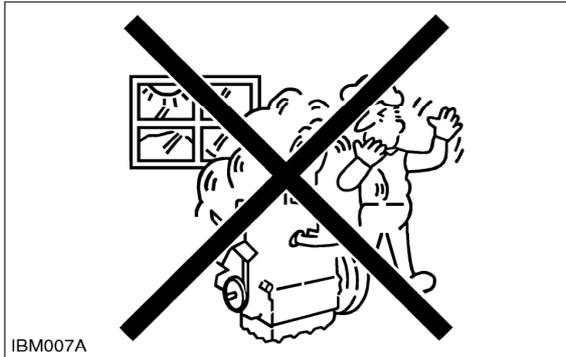
- Do not use the machine after you consume alcohol or medication or when you are tired.
- Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not touch the hot parts or parts that turn when the engine operates.
- Do not remove the radiator cap when the engine operates, or immediately after it stops. If not, hot water can spout out from the radiator. Only remove the radiator cap when it is at a sufficiently low temperature to touch with bare hands. Slowly loosen the cap to release the pressure before you remove it fully.
- Released fluid (fuel or hydraulic oil) under pressure can cause damage to the skin and cause serious injury. Release the pressure before you disconnect hydraulic or fuel lines. Tighten all connections before you apply the pressure.
- Do not open a fuel system under high pressure. The fluid under high pressure that stays in fuel lines can cause serious injury. Do not disconnect or repair the fuel lines, sensors, or any other components between the fuel pump and injectors on engines with a common rail fuel system under high pressure.
- Put on an applicable ear protective device (earmuffs or earplugs) to prevent injury against loud noises.
- Be careful about electric shock. The engine generates a high voltage of more than DC100 V in the ECU and is applied to the injector.

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PREVENT A FIRE

- Fuel is very flammable and explosive under some conditions. Do not smoke or let flames or sparks in your work area.
- To prevent sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- The battery gas can cause an explosion. Keep the sparks and open flame away from the top of battery, especially when you charge the battery.
- Make sure that you do not spill fuel on the engine.

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KEEP A GOOD AIRFLOW IN THE WORK AREA

- If the engine is in operation, make sure that the area has good airflow. Do not operate the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.

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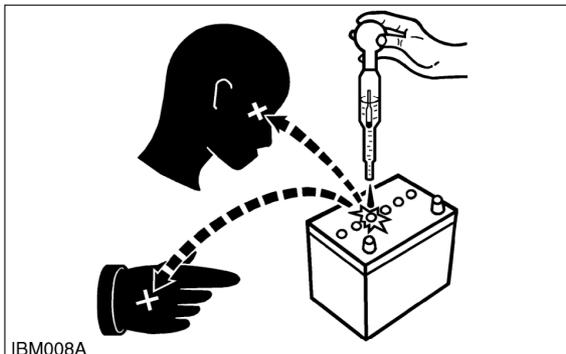


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DISCARD FLUIDS CORRECTLY

- Do not discard fluids on the ground, down the drain, into a stream, pond, or lake. Obey related environmental protection regulations when you discard oil, fuel, coolant, electrolyte and other dangerous waste.

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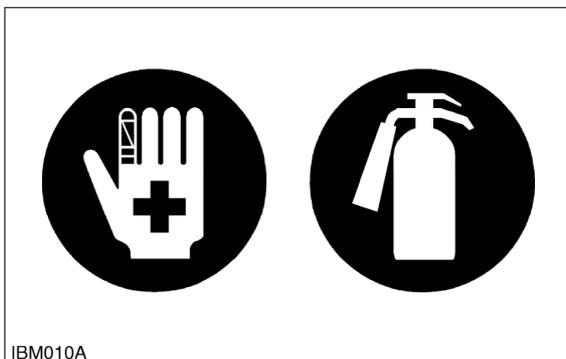


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PREVENT ACID BURNS

- Keep electrolyte away from your eyes, hands and clothing. Sulfuric acid in battery electrolyte is poisonous and it can burn your skin and clothing and cause blindness. If you spill electrolyte on yourself, clean yourself with water, and get medical aid immediately.

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PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher ready at all times.
- Keep the emergency contact telephone numbers near your telephone at all times.

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2. SAFETY DECALS

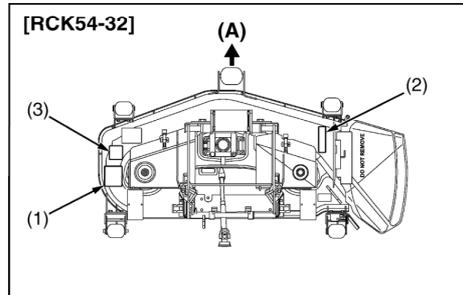
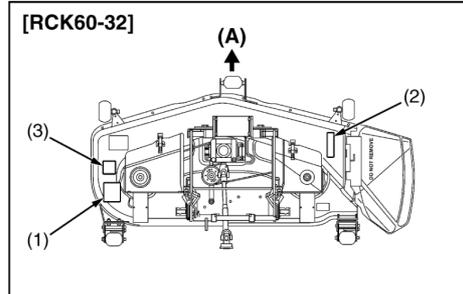
The following safety decals are installed on the machine. If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

WSM000001INI0013US0

(1) Part No. K5384-4715-1



1BDACBLAP051A



(A) Forward

(2) Part No. K5112-7311-1



1BDACADAP003E

(3) Part No. K5112-7312-1



1BDACADAP004E

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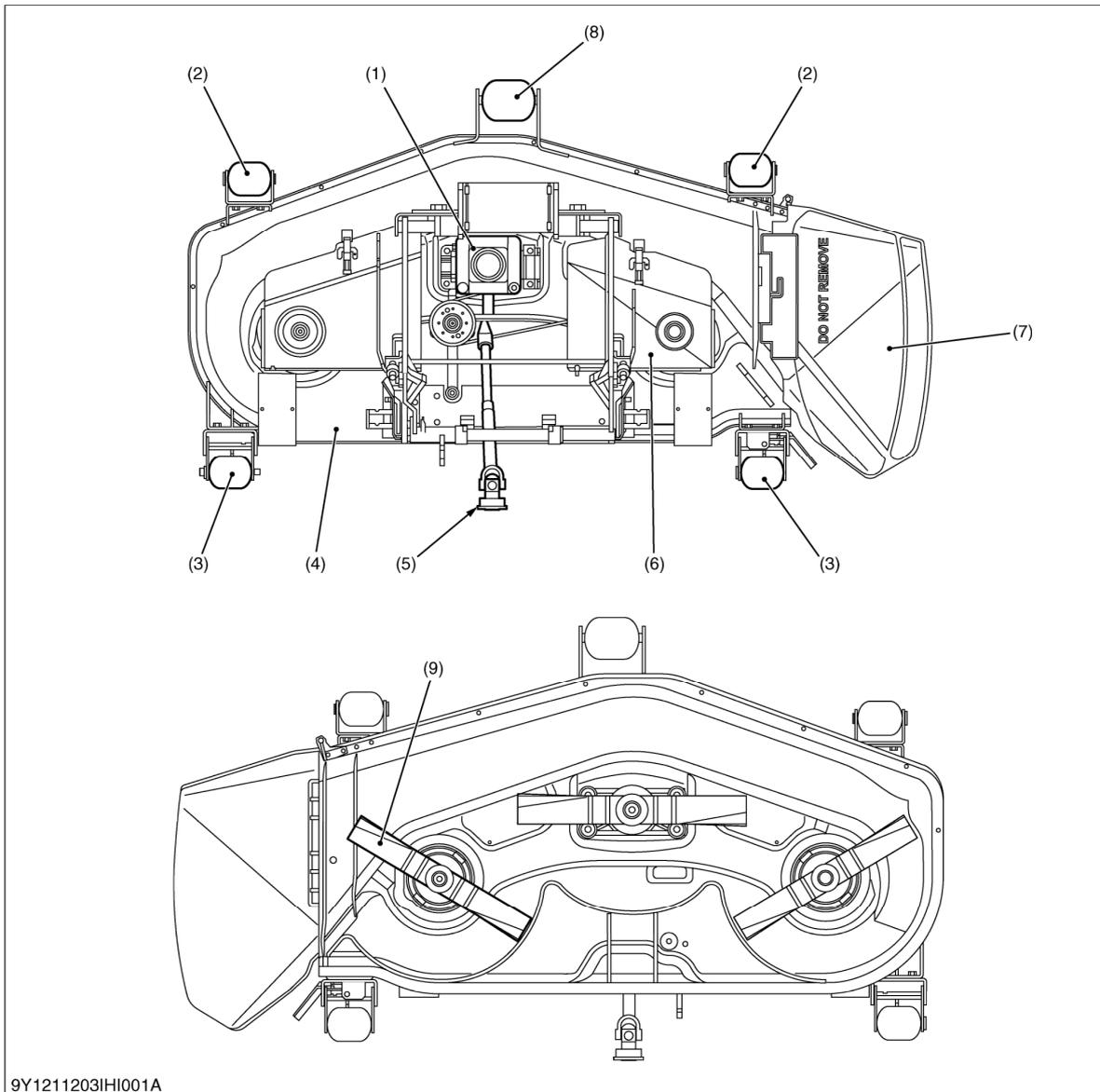
CARE OF DANGER, WARNING AND CAUTION LABELS

1. Keep danger, warning and caution labels clean and free from obstructing material.
2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing danger, warning and caution labels with new labels.
4. If a component with danger, warning and caution label(s) affixed is replaced with new part, make sure new label(s) is (are) attached in the same location(s) as the replace component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

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3. TERMINOLOGY

[1] RCK54-32

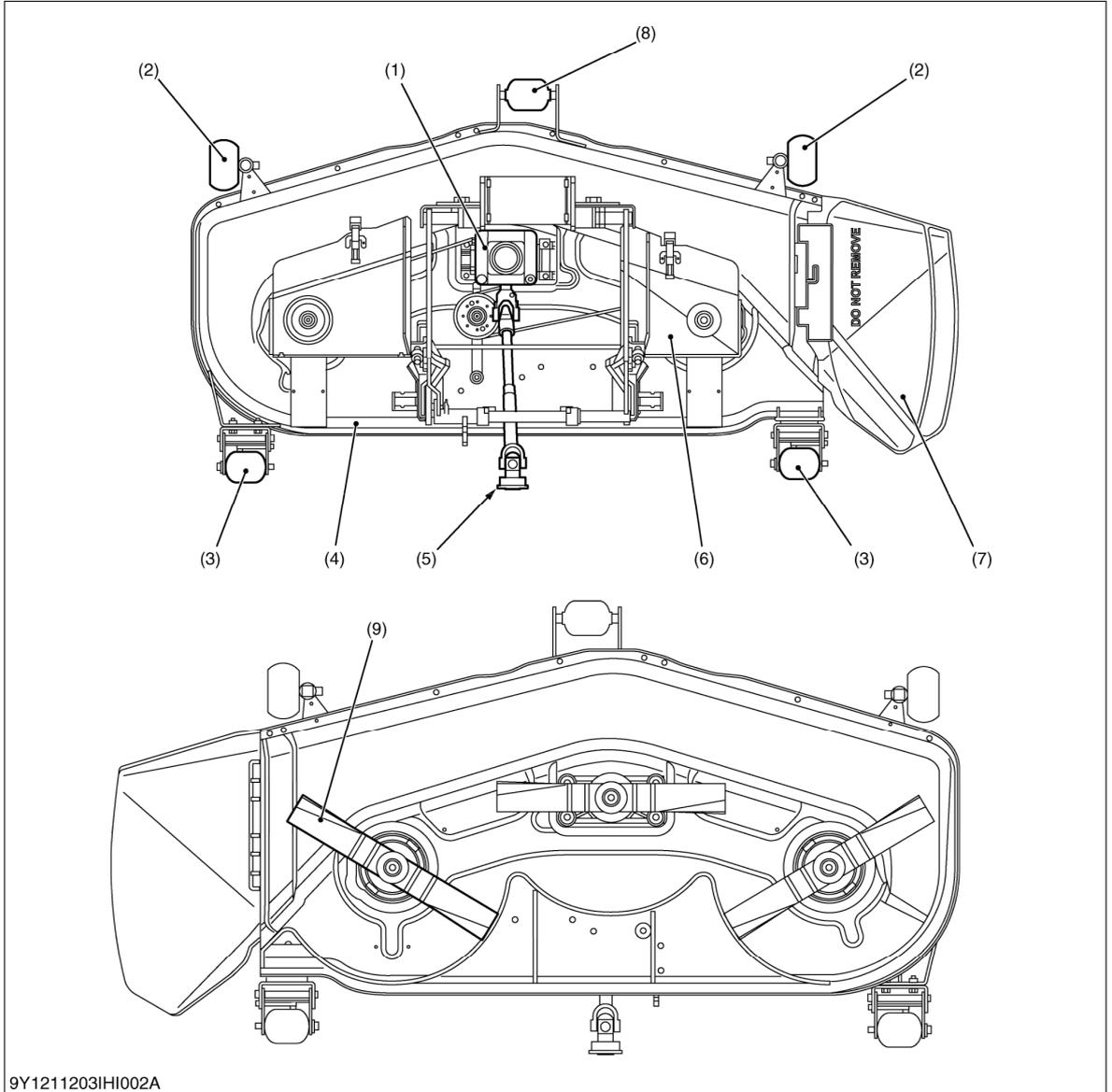


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- | | | | |
|-----------------------------|---------------------|-------------------------|------------------------------|
| (1) Gear Box | (4) Deck | (6) Belt Cover | (8) Center Anti-scalp Roller |
| (2) Front Anti-scalp Roller | (5) Universal Joint | (7) Discharge Deflector | (9) Blade |
| (3) Rear Anti-scalp Roller | | | |

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[2] RCK60-32



- | | | | |
|-----------------------------|---------------------|-------------------------|------------------------------|
| (1) Gear Box | (4) Deck | (6) Belt Cover | (8) Center Anti-scalp Roller |
| (2) Front Anti-scalp Roller | (5) Universal Joint | (7) Discharge Deflector | (9) Blade |
| (3) Rear Anti-scalp Roller | | | |

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4. SPECIFICATIONS

Model		RCK54-32	RCK60-32
Suitable tractor		B2301, B2601	
		Quick Joint, Parallel linkage	
Mounting method		Suspended linkage	
Adjustment of cutting height		Dial gauge	
Cutting width		1372 mm (54 in.)	1524 mm (60 in.)
Cutting height		25 to 102 mm (1.0 to 4.0 in.)	
Weight (Approx.)		136 kg (299.8 lbs)	146 kg (321.8 lbs)
Blade spindle speed		50.0 r/s (3000 min ⁻¹ (rpm))	44.7 r/s (2680 min ⁻¹ (rpm))
Blade tip velocity		74.6 m/s (14680 fpm)	73.4 m/s (14439 fpm)
Blade length		475 mm (18.7 in.)	523 mm (20.6 in.)
Number of blades		3	
Dimensions	Total length	940 mm (37.0 in.)	1100 mm (43.3 in.)
	Total width	1780 mm (70.0 in.)	1930 mm (76.0 in.)
	Total height	250 mm (9.8 in.)	

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G GENERAL

GENERAL

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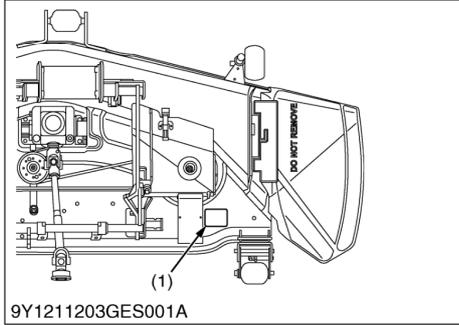
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1. MOWER IDENTIFICATION

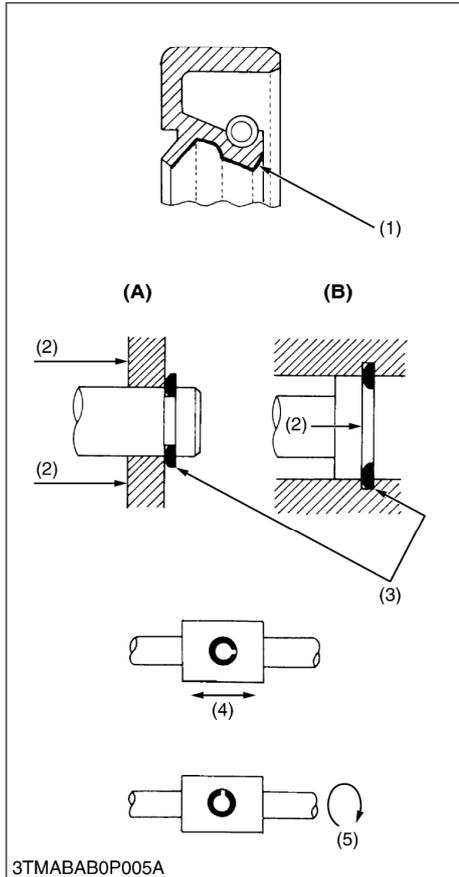
When contacting your local KUBOTA distributor, always specify mower serial number.

- (1) Mower Serial Number

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2. GENERAL PRECAUTIONS



- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors.
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when you make special tools that you do not use frequently.
- Before you disassemble or repair machine, make sure that you always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before you measure.
- Use only KUBOTA genuine parts for replacement to keep the machine performance and to make sure of safety.
- You must replace the gaskets and O-rings when you assemble again. Apply grease (1) to new O-rings or oil seals before you assemble.
- When you assemble the external or internal snap rings, make sure that the sharp edge (3) faces against the direction from which force (2) is applied.
- When inserting spring pins, their splits must face the direction from which a force is applied. See the figure on the left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.
- Clean the parts before you measure them.
- Tighten the fittings to the specified torque. Too much torque can cause damage to the hydraulic units or the fittings. Not sufficient torque can cause oil leakage.
- When you use a new hose or pipe, tighten the nuts to the specified torque. Then loosen (approx. by 45 °) and let them be stable before you tighten to the specified torque (This is not applied to the parts with seal tape).
- When you remove the two ends of a pipe, remove the lower end first.
- Use two pliers in removal and installation. One to hold the stable side, and the other to turn the side you remove to prevent twists.
- Make sure that the sleeves of flared connectors and tapers of hoses are free of dust and scratches.
- After you tighten the fittings, clean the joint and apply the maximum operation pressure 2 to 3 times to check oil leakage.

- (1) Grease
 (2) Force
 (3) Sharp Edge
 (4) Axial Force
 (5) Rotating Movement

- (A) External Cir-clip
 (B) Internal Cir-clip

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3. LUBRICANTS

No.	Place	Capacity		Lubricants
		RCK54-32	RCK60-32	
1	Gear Box	0.36 L 0.38 U.S.qts 0.32 Imp.qts		SAE 90 gear oil (API Service GL-5 gear oil)
Greasing				
2	Universal joint	Until grease overflows		Multipurpose EP2 grease (NLGI Grade No.2) NLGI
3	Front anti-scalp roller			
4	Spindle shafts			
5	Belt tension pulley			
6	Belt tension pivot			
7	Center spindle shaft			
8	Center anti-scalp roller			
9	Lift arm			

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4. TIGHTENING TORQUES

Tighten screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual according to the table below.

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[1] GENERAL USE SCREWS, BOLTS AND NUTS

Indication on top of bolt	 4 No-grade or 4T						 7 7T						 9 9T					
Indication on top of nut	  No-grade or 4T												   6T					
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness					
	Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft		
M6	7.9	0.80	5.8	7.9	0.80	5.8	9.81	1.00	7.24	7.9	0.80	5.8	12.3	1.25	9.05			
	to 9.3	to 0.95	to 6.8	to 8.8	to 0.90	to 6.5	to 11.2	to 1.15	to 8.31	to 8.8	to 0.90	to 6.5	to 14.2	to 1.45	to 10.4			
M8	18	1.8	13	17	1.7	13	24	2.4	18	18	1.8	13	30	3.0	22			
	to 20	to 2.1	to 15	to 19	to 2.0	to 14	to 27	to 2.8	to 20	to 20	to 2.1	to 15	to 34	to 3.5	to 25			
M10	40	4.0	29	32	3.2	24	48	4.9	36	40	4.0	29	61	6.2	45			
	to 45	to 4.6	to 33	to 34	to 3.5	to 25	to 55	to 5.7	to 41	to 44	to 4.5	to 32	to 70	to 7.2	to 52			
M12	63	6.4	47	-	-	-	78	7.9	58	63	6.4	47	103	10.5	76.0			
	to 72	to 7.4	to 53	-	-	-	to 90	to 9.2	to 66	to 72	to 7.4	to 53	to 117	to 12.0	to 86.7			
M14	108	11.0	79.6	-	-	-	124	12.6	91.2	-	-	-	167	17.0	123			
	to 125	to 12.8	to 92.5	-	-	-	to 147	to 15.0	to 108	-	-	-	to 196	to 20.0	to 144			
M16	167	17.0	123	-	-	-	197	20.0	145	-	-	-	260	26.5	192			
	to 191	to 19.5	to 141	-	-	-	to 225	to 23.0	to 166	-	-	-	to 304	to 31.0	to 224			
M18	246	25.0	181	-	-	-	275	28.0	203	-	-	-	344	35.0	254			
	to 284	to 29.0	to 209	-	-	-	to 318	to 32.5	to 235	-	-	-	to 402	to 41.0	to 296			
M20	334	34.0	246	-	-	-	368	37.5	272	-	-	-	491	50.0	362			
	to 392	to 40.0	to 289	-	-	-	to 431	to 44.0	to 318	-	-	-	to 568	to 58.0	to 419			

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[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
	Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m
M8	12	1.2	8.7	8.9	0.90	6.5
	to 15	to 1.6	to 11	to 11	to 1.2	to 8.6
M10	25	2.5	18	20	2.0	15
	to 31	to 3.2	to 23	to 25	to 2.6	to 18
M12	30	3.0	22	31	3.2	23
	to 49	to 5.0	to 36			
M14	62	6.3	46	-	-	-
	to 73	to 7.5	to 54	-	-	-
M16	98.1	10.0	72.4	-	-	-
	to 112	to 11.5	to 83.1	-	-	-
M18	172	17.5	127	-	-	-
	to 201	to 20.5	to 148	-	-	-

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[3] METRIC SCREWS, BOLTS AND NUTS

Grade	 Property class 8.8			 Property class 10.9			
	Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8		24 to 27	2.4 to 2.8	18 to 20	30 to 34	3.0 to 3.5	22 to 25
M10		48 to 55	4.9 to 5.7	36 to 41	61 to 70	6.2 to 7.2	45 to 52
M12		78 to 90	7.9 to 9.2	58 to 66	103 to 117	10.5 to 12.0	76.0 to 86.7
M14		124 to 147	12.6 to 15.0	91.2 to 108	167 to 196	17.0 to 20.0	123 to 144
M16		197 to 225	20.0 to 23.0	145 to 166	260 to 304	26.5 to 31.0	192 to 224

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[4] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS

Grade	 SAE GR.5			 SAE GR.8			
	Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
1/4		11.7 to 15.7	1.20 to 1.60	8.63 to 11.5	16.3 to 19.7	1.67 to 2.00	12.0 to 14.6
5/16		23.1 to 27.7	2.36 to 2.82	17.0 to 20.5	33 to 39	3.4 to 3.9	25 to 28
3/8		48 to 56	4.9 to 5.7	36 to 41	61 to 73	6.3 to 7.4	45 to 53
1/2		110 to 130	11.3 to 13.2	81.2 to 95.8	150 to 178	15.3 to 18.1	111 to 131
9/16		150 to 178	15.3 to 18.1	111 to 131	217 to 260	22.2 to 26.5	160 to 191
5/8		204 to 244	20.8 to 24.8	151 to 179	299 to 357	30.5 to 36.4	221 to 263

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5. MAINTENANCE CHECK LIST

WARNING

To avoid serious injury:

- Stop the engine and remove the key.

No.	Check Point	Used hours (Change or check every interval)				Reference page	
		Daily check	50 hrs	150 hrs	1 year		4 years
1	Oil leakage check	☆					G-9
2	Make sure blade bolts are tight.	☆					G-8
3	Blade and belt wear check	☆					G-8, G-9, G-10
4	All hardware check	☆					–
5	Make sure all pins are in place.	☆					–
6	Mower deck cleaning	☆					–
7	Greasing <ul style="list-style-type: none"> • Universal joint • Three spindle shafts • Belt tension pulley • Belt tension pivot • Front anti-scalp roller (60" only) 	☆					G-7
	<ul style="list-style-type: none"> • Center anti-scalp roller • Lift arm 		☆				G-9
8	Gear box oil check	☆					G-9
9	Gear box oil change		★	☆			G-9
10	Gear box oil seal check				☆☆		–
11	Gear box oil seal replace					☆	–

■ IMPORTANT

- The jobs indicated by ★ must be done after the first time at 50 hrs.
- ☆☆: Replace if any deterioration (crack, hardening, scar or deformation) or damaged occurred.
- ★: The initial 50 hours should not be a replacement cycle.

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6. CHECK AND MAINTENANCE

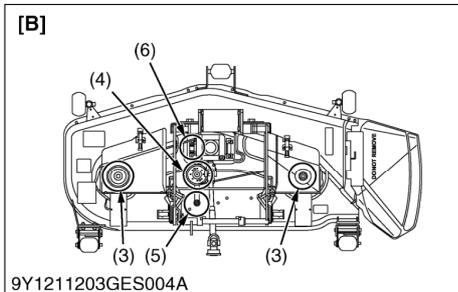
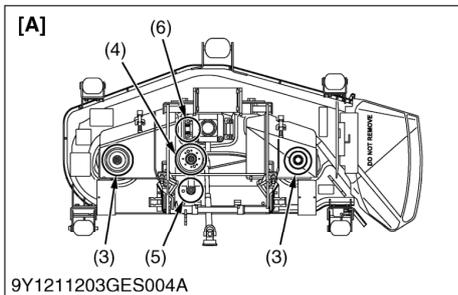
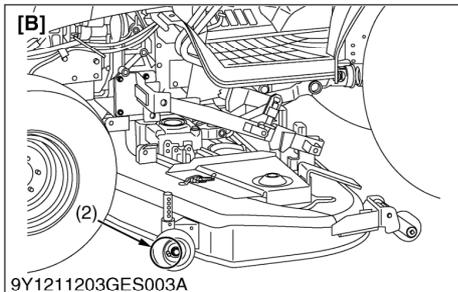
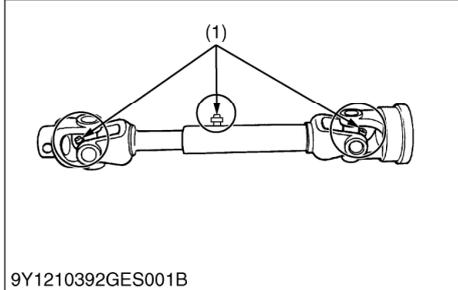
WARNING

To avoid serious injury:

- Stop the engine, set the parking brake and remove the key.

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[1] DAILY CHECK

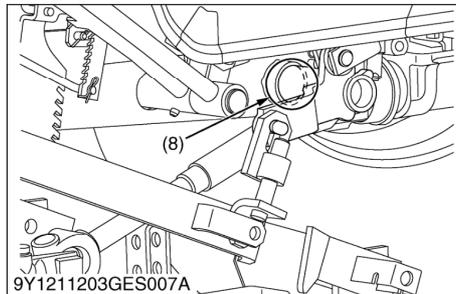
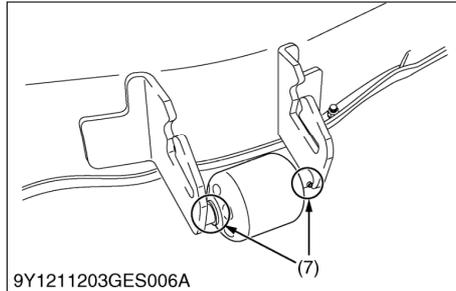


Greasing [Use multipurpose EP2 grease (NLGI Grade No. 2)]

1. Apply a greasing to the following position as figures.

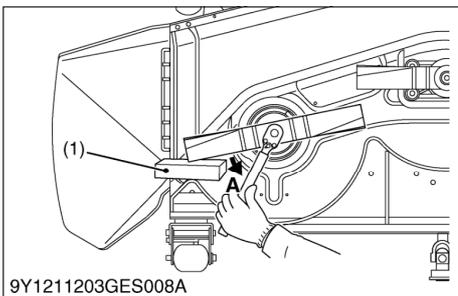
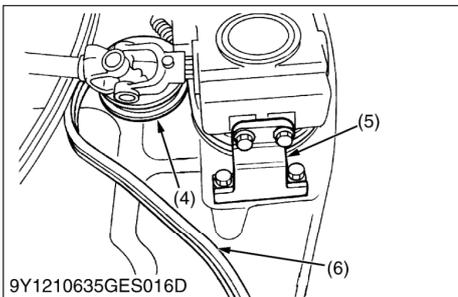
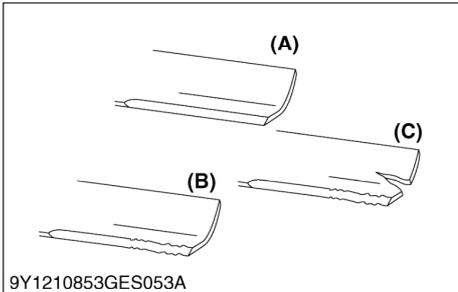
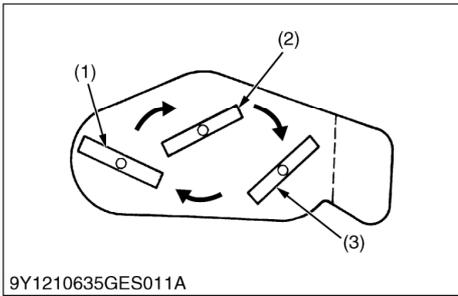
■ IMPORTANT

- After checking above items, replace any worn, damaged or missing parts.
- Dry deck completely before storage, or pulleys become rusty and damage can result.



- | | |
|--|---|
| (1) Grease Fitting (Universal Joint) | (6) Grease Fitting (Center Spindle Shaft) |
| (2) Grease Fitting (Front Anti-scalp Roller) | (7) Roller pin (Center Anti-scalp Roller) |
| (3) Grease Fitting (Spindle Shaft) | (8) Lift Arm |
| (4) Grease Fitting (Belt Tension Pulley) | [A] RCK54-32 |
| (5) Grease Fitting (Belt Tension Pivot) | [B] RCK60-32 |

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Blade and Belt Wear Check

⚠ WARNING

To avoid serious injury:

- Wear heavy gloves or wrap end of blade with a rag when you handle blades.

■ IMPORTANT

- The blade bolts have right hand threads. Turn them counterclockwise to loosen.
- To prolong the service life of the blades, reposition them as shown in the figure periodically.

1. The blade cutting edges should be kept sharp at all times.
2. Sharpen the cutting edges, if they resemble the blade in figure (B).
3. Replace the blades if they appear similar to the blade as shown in figure (C).
4. Check if the mower belt (6) is worn or damaged.
5. If it is worn or damaged, replace the belt. (Refer to G-10)

- | | |
|--------------------|-------------------|
| (1) LH Blade | (A) New Blade |
| (2) Center Blade | (B) Worn Blade |
| (3) RH Blade | (C) Cracked Blade |
| (4) Tension Pulley | |
| (5) Bracket (RH) | |
| (6) Mower Belt | |

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Retightening Mower Blade Screw

⚠ WARNING

To avoid serious injury:

- Wear heavy gloves when removing blades.

■ IMPORTANT

- Use the proper metric size box or socket wrench to tighten or loosen the blade mounting bolt.

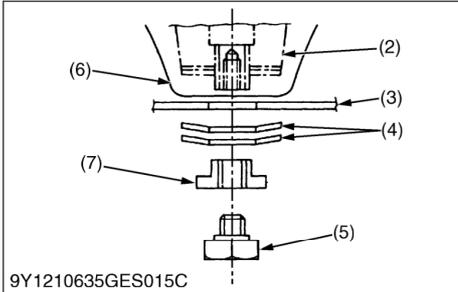
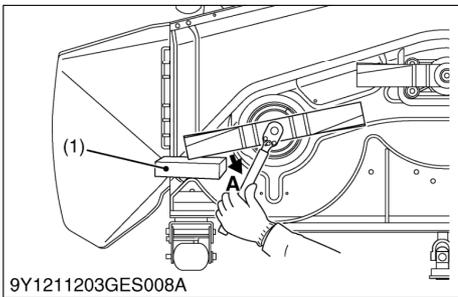
1. Dismount the mower and turn it over to expose the mower blades.
2. Wedge a block of wood securely between the mower blade and mower deck.
3. Retighten the mower blade screw to the specified torque.
4. If the mower blade screw is worn or broken, replace it.

Tightening torque	Blade screw	103 to 118 N·m 10.5 to 12.0 kgf·m 76.0 to 87.0 lbf·ft
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- (1) Block **A: "LOOSEN" (Counterclockwise)**

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[5] OTHERS



Blade Replacement

1. Remove the mower from the tractor and turn it over to expose the blades.
2. Wedge a block (1) of wood between the blade and mower housing or use a box wrench over the pulley nut to prevent the spindle from rotating while removing the blade bolts; loosen the blade bolt as illustrated.

WARNING

To avoid serious injury:

- Wear heavy gloves when removing blades.

■ IMPORTANT

- Use the proper metric size box or socket wrench to tighten or loosen the blade mounting bolt (5).
3. To sharpen the blades, clamp the blades one at a time 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. The blade should balance on this rod. If the blade is not balanced, file the heavy side of the blade until balance is achieved.
 5. Install the blade (3) in position together with the lock washer and the 2 cup washers (4). Tighten them up with the bolts (5).

■ NOTE

- Make sure that the belleville washer (cup washer) (4) are not flattened out or worn; this cause blade to slip excessively. Replace cup washers if either is damaged.

(When reassemble)

Tightening torque	Blade screw	103 to 118 N·m 10.5 to 12.0 kgf·m 76.0 to 87.0 lbf·ft
-------------------	-------------	---

- | | |
|------------------------------------|---------------------------------------|
| (1) Block | (6) Spindle Guard |
| (2) Spindle Holder | (7) Spline Boss |
| (3) Blade | |
| (4) Belleville Washer (Cup Washer) | A: "LOOSEN" (Counterclockwise) |
| (5) Blade Bolt | |

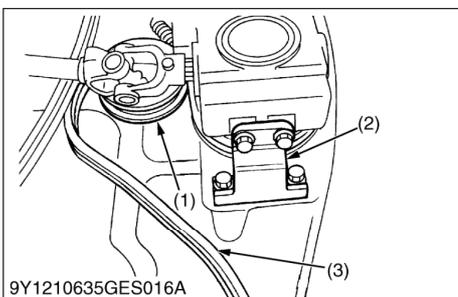
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Belt Replacement

1. Remove the mower from the tractor.
2. Remove the left and right hand belt cover from the mower deck.
3. Clean around the gear box.
4. Remove the mower belt (3) from the tension pulley (1).
5. Remove the right hand bracket (2) which mounts the gear box to the mower deck and slip the belt over the top of the gear box.
6. To install a new belt, reverse the above procedure.

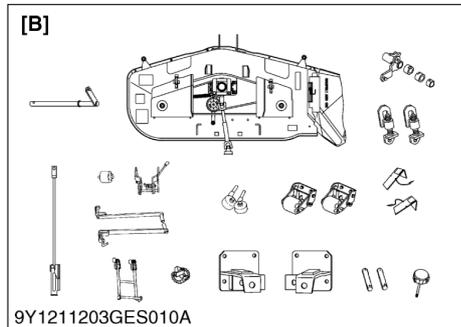
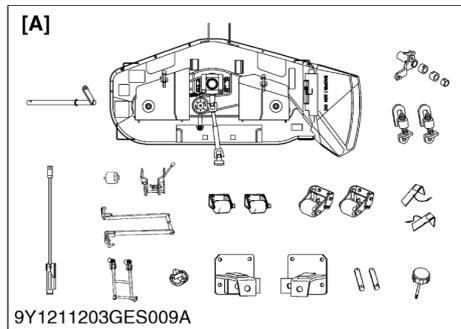
- | | |
|--------------------|----------------|
| (1) Tension Pulley | (3) Mower Belt |
| (2) Bracket (RH) | |

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7. SETTING UP

[1] PRE-ASSEMBLY



Pre-Assembly

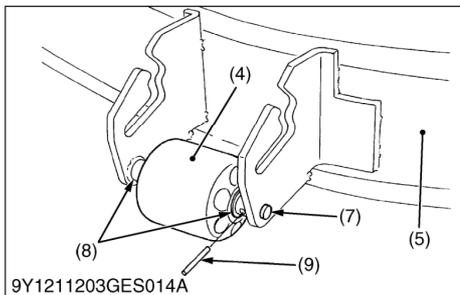
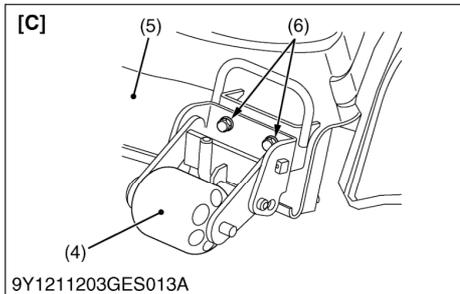
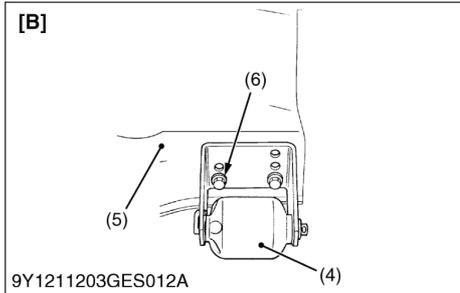
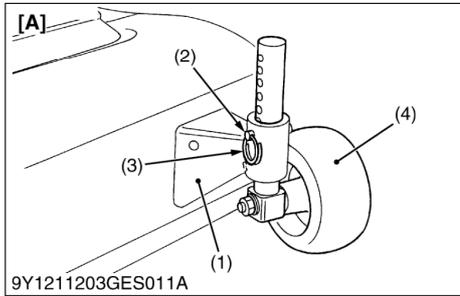
1. Remove all mower components from the case and check the parts as illustrated. (Some of these parts may already be assembled to the mower deck.)

[A] RCK54-32

[B] RCK60-32

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[2] Full Download: <https://www.arepairmanual.com/downloads/kubota-rck54-32-rck60-32-service-manual/>



Setting Up The Mower

1. Attach the anti-scalp rollers (4) to the arms of the deck with the clevis pins (2) and snap rings (3). (RCK60-32)
2. Attach the anti-scalp rollers (4) to the deck (5) with M10 bolts and spring washers (6). (RCK54-32)
3. Attach the center anti-scalp roller (4) to the deck (5) with roller pin (7), plain washer (8) and spring pin (9).

- | | |
|-------------------------|------------------|
| (1) Arm | (8) Plain Washer |
| (2) Clevis Pin | (9) Spring Pin |
| (3) Snap Ring | |
| (4) Anti-scalp Roller | |
| (5) Deck | |
| (6) Bolt, Spring Washer | |
| (7) Roller Pin | |

[A] RCK60-32 Front side

[B] RCK54-32 Front side

[C] Rear side

(To be continued)