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.**

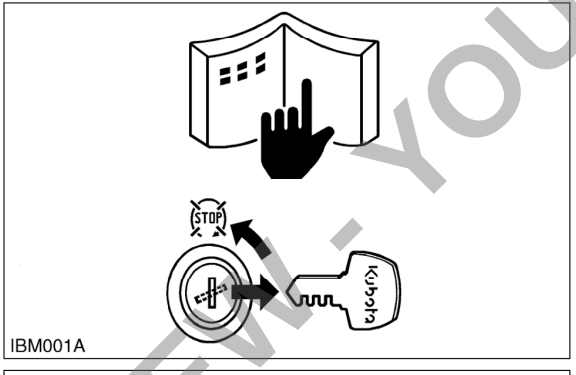
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ 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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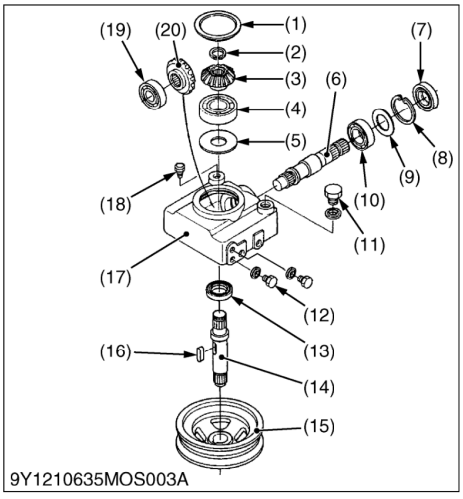
START SAFELY

- 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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Disassembling Gear Box

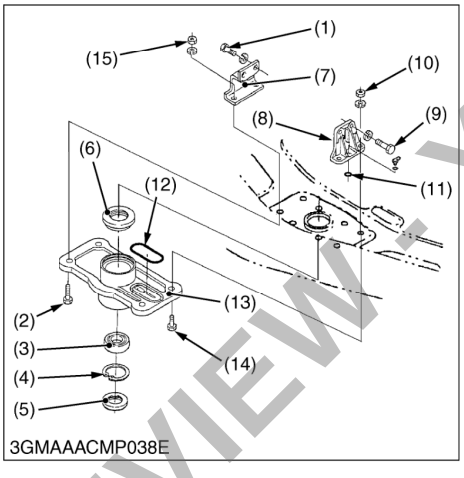
1. Remove the drain plug (12), and drain the gear box oil.
2. Remove the center pulley (15) with a puller, and remove the feather key (16) on the bevel gear shaft (14).
3. Remove the gear box caps (1).
4. Remove the oil seal (7), internal snap ring (8) and shim (9).
5. Remove the pinion shaft (6) with the ball bearing (10), and remove the bevel gear (20) with bearing (19).
6. Remove the external snap ring (2), and draw out the bevel gear shaft (14).
7. Remove the bevel gear (3), ball bearing (4), shim (5) and oil seal (13).

(When reassembling)

- Replace the oil seals (7), (13) and gear box cap (1) with new ones.
- Check the backlash and turning torque.
  If not proper, adjust with the shims (5) and (9).
  (See page 1-S11.)

(1) Gear Box Cap
(2) External Snap Ring
(3) 16T Bevel Gear
(4) Ball Bearing
(5) Shim
(6) Pinion Shaft
(7) Oil Seal
(8) Internal Snap Ring
(9) Shim
(10) Ball Bearing
(11) Oil Filler Plug
(12) Drain Plug
(13) Oil Seal
(14) Bevel Gear Shaft
(15) Center Pulley
(16) Feather Key
(17) Gear Box
(18) Breather
(19) Ball Bearing
(20) 21T Bevel Gear

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Center Pulley Holder

1. Remove the center pulley holder screws (2), (14).
2. Remove the upper oil seal (6) and lower oil seal (5).
3. Remove the internal snap ring (4) and ball bearing (3).

(When reassembling)

- Replace the oil seals (5), (6) with new ones.

■ **NOTE**

- **When reassembling the center pulley holder (13), gear box and gear box stays (7), (8), screw the all screws by hand temporarily.**
- **Tighten the screws in the order as below, to prevent the incline the gear box.**
- **Tighten the reamer screws (9) to the gear box first, then tighten the reamer screws (14) to the center pulley holder (13) with specified torque.**
- **Tighten the gear box screws (1) to the gear box, then tighten the center pulley holder screws (2) with specified torque.**
- **See page 1-S7for tightening torque of gear box screw.**

Tightening torque	Center pulley holder screw (Reamer type)	77.4 to 90.2 N·m 7.9 to 9.2 kgf·m 57.1 to 66.5 lbf·ft

(1) Gear Box Screw
(2) Center Pulley Holder Screw
(3) Ball Bearing
(4) Snap Ring
(5) Oil Seal
(6) Oil Seal
(7) Gear Box Stay RH
(8) Gear Box Stay LH
(9) Gear Box Reamer Screw
(10) Nut
(11) O-ring
(12) O-ring
(13) Center Pulley Holder
(14) Center Pulley Holder Reamer Screw
(15) Nut

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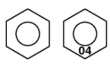
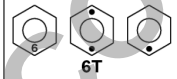
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4. TIGHTENING TORQUES

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	 No-grade or 4T						 7T						 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 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 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	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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1. TROUBLESHOOTING

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Discharge Cover Plugged	1. Grass too wet	Wait for grass to dry	–
	2. Grass too long	Raise cutting height and cut grass twice	1-S6
	3. Cutting too low	Raise cutting height	1-S6
	4. Engine rpm too low	Mow at full throttle	–
	5. Ground speed too fast	Slow down	–
Streaking of Uncut Grass	1. Ground speed too fast	Slow down	–
	2. Engine rpm too low	Mow at full throttle, check and reset engine rpm	–
	3. Grass too long	Cut grass twice	–
	4. Blades dull or damaged	Replace blades or have blades sharpened	G-8, G-10
	5. Debris in mower deck	Clean mower deck	–
Uneven Cut	1. Mower deck not level	Level mower deck	–
	2. Ground speed too fast	Slow down	–
	3. Blades dull	Have blades sharpened	G-8
	4. Blades worn	Replace blades	G-10
	5. Low tire inflation	Add air to correct	–
Blades Scalping Grass	1. Cutting height too low	Raise cutting height	1-S6
	2. Turning speed too fast	Reduce speed on turns	–
	3. Ridges in terrain	Change mowing pattern	–
	4. Rough or uneven terrain	Adjust anti-scalp rollers	1-S6
	5. Anti-scalp rollers not adjusted correctly	Adjust anti-scalp rollers	1-S6
	6. Bent blade(s)	Replace blade(s)	G-8
Belt Slipping	1. Mower deck plugged	Unplug and clean mower deck	–
	2. Debris in pulleys	Clean pulleys	–
	3. Worn belt	Replace belt	G-10
Excessive Vibration	1. Debris on mower deck or in pulleys	Clean mower deck and pulleys	–
	2. Damaged mower belt	Replace mower belt	G-10
	3. Damaged pulleys	Replace pulleys	1-S9
	4. Pulleys out of alignment	Replace pulleys	1-S9
	5. Blades out of balance	Have blades balanced	G-8
Mower Loads Down Tractor	1. Engine rpm too low	Mow at full throttle check and reset engine rpm	–
	2. Ground speed too fast	Slow down	–
	3. Debris wrapped around mower spindles	Clean mower	–

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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.)	

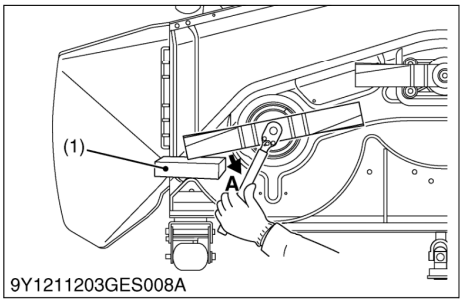
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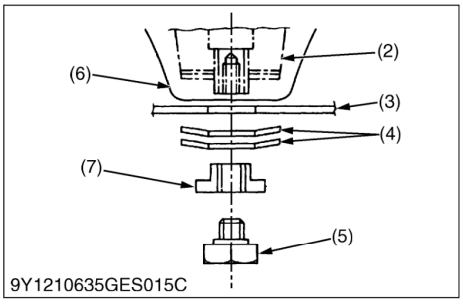
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[5] OTHERS



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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.**

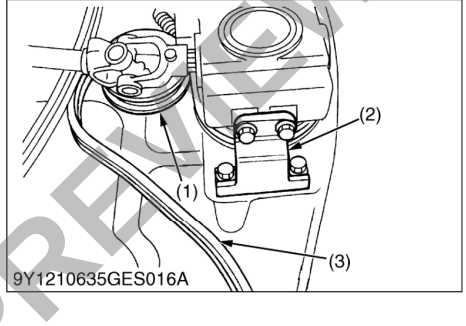
(When reassemble)

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
(2) Spindle Holder
(3) Blade
(4) Belleville Washer (Cup Washer)
(5) Blade Bolt
(6) Spindle Guard
(7) Spline Boss

A: "LOOSEN" (Counterclockwise)

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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
(2) Bracket (RH)
(3) Mower Belt

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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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