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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.**

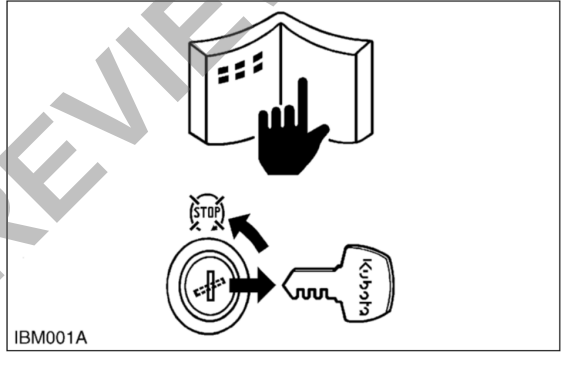
WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

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

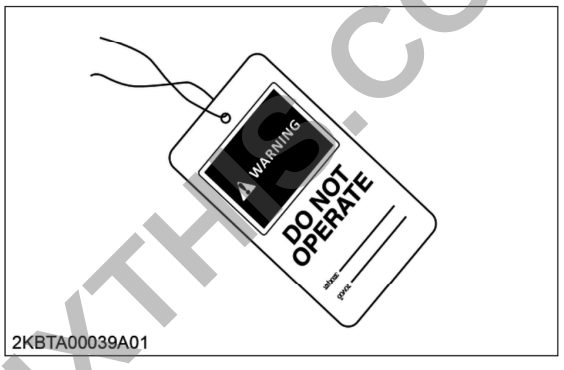
IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

NOTE
- **Gives helpful information.**

1. Working precautions



- Understand all safety instructions and safety labels in this manual.
- Park the machine on a stable and level ground then lower the attachment to check the machine safely.
- Stop the engine and remove the key when leaving the operator's seat for cleaning, maintenance, and servicing.



- Hang a DO NOT OPERATE tag near the operator's seat.
- Do not use worn or cracked tools. Use tools in a proper way with enough strength.
- In regards to the facility which is used in the workshop, follow each safety instruction.

2. Preparing for emergencies



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

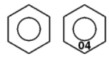
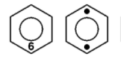
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TIGHTENING TORQUES

Refer to the following table if the tightening torques of screws, bolts and nuts are not specified in each part.

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

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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SERVICING

1. Troubleshooting for mower

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	—
	3. Cutting too low	Raise cutting height	—
	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	4-7
	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	4-7
	4. Blades worn	Replace blades	4-7
	5. Low tire inflation	Add air to correct	—
	6. Gauge wheels not adjusted correctly	Adjust gauge wheels	4-8 4-8
Blades scalping grass	1. Cutting height too low	Raise cutting height	—
	2. Turning speed too fast	Reduce speed on turns	—
	3. Ridges in terrain	Change mowing pattern	—
	4. Rough or uneven terrain	Adjust gauge wheels and antiscalp rollers	4-8 4-8
	5. Gauge wheels not adjusted correctly	Adjust gauge wheels and antiscalp rollers	4-8 4-8
	6. Bent blade(s)	Replace blade(s)	4-9
Belt slipping	1. Mower deck plugged	Unplug and clean mower deck	—
	2. Debris in pulleys	Clean pulleys	—

(Continued)

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MAINTENANCE CHECK LIST

WARNING
To avoid serious injury or death:
- **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	•					3-5
2	Make sure blade bolts are tight.	•					3-9
3	Blade and belt wear check	•					3-9 3-11
4	All hardware check	•					—
5	Make sure all pins are in place.	•					—
6	Mower deck cleaning	•					3-9
7	Greasing • Universal joint • 3 spindle shafts • Belt tension pulley • Belt tension pivot • Front anti-scalp roller • Rear anti-scalp roller (72" only) • Lift arms	•					3-5
	• Front and rear gauge wheels • Link joint		•				3-5
8	Gear box oil check	•					3-5
9	Gear box oil change		◎	•			3-5
10	Gear box oil seal check				•*1		—
11	Gear box oil seal replace					•	—

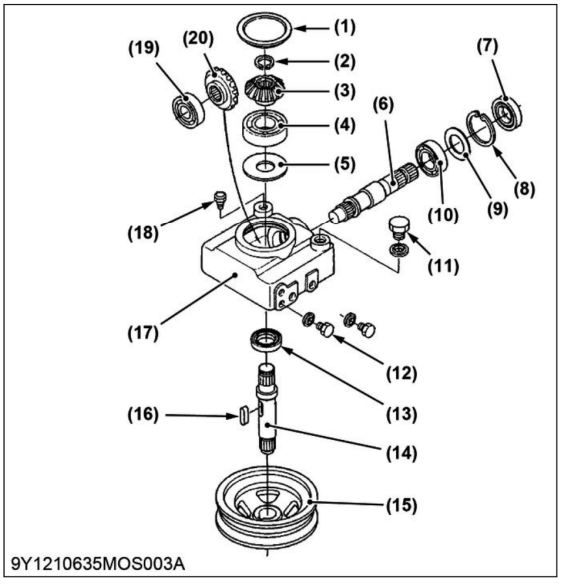
IMPORTANT
- **The jobs indicated by ◎ must be done the first time at 50 hrs.**

*1 Replace if any deterioration (crack, hardening, scar, or deformation) or damage occurred.

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7. Remove the bevel gear (3), ball bearing (4), shim (5) and oil seal (13).



(1) Gear box cap
(2) External circlip
(3) Bevel gear
(4) Ball bearing
(5) Shim
(6) Pinion shaft
(7) Oil seal
(8) Internal circlip
(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) Bevel gear

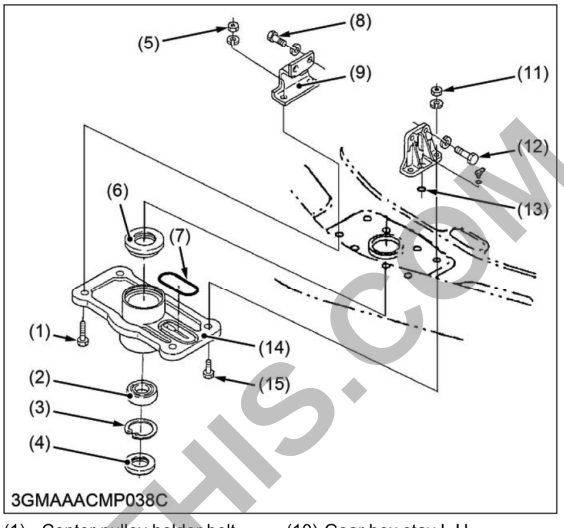
(When reassembling)

- 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).

RELATED PAGE
6.1 Adjusting turning torque of pinion shaft on page 4-12
6.2 Adjusting backlash between bevel gears on page 4-13

5.6 Removing center pulley holder

1. Remove the center pulley holder bolts (1), (15) / center pulley nut (5), (11).
2. Remove the upper oil seal (6) and lower oil seal (4).
3. Remove the internal circlip (3) and ball bearing (2).



(1) Center pulley holder bolt
(2) Ball bearing
(3) Internal circlip
(4) Lower oil seal
(5) Nut
(6) Upper oil seal
(7) O-ring
(8) Gear box bolt
(9) Gear box stay R.H.
(10) Gear box stay L.H.
(11) Nut
(12) Gear box reamer bolt
(13) O-ring
(14) Center pulley holder
(15) Center pulley holder reamer bolt

(When reassembling)

■ NOTE

- **When reassembling the center pulley holder (14), gear box and gear box stays (9), (10), tighten the bolts and nuts in the order as below, to prevent the incline the gear box.**
- **Tighten the gear box reamer bolt (12) to the gear box first, then tighten the center pulley holder reamer bolts (15) and nut (11) to the center pulley holder (14) with the specified torque.**
- **Tighten the gear box bolts (8) to the gear box, then tighten the center pulley holder bolts (1) and the nut (5) with the specified torque.**

- Tighten to the specified tightening torque.

Tightening torque	Center pulley holder bolt and nut	77.4 to 90.2 N·m 7.90 to 9.19 kgf·m 57.1 to 66.5 lbf·ft

5.7 Removing outer pulley and blade shaft

1. Remove the outer pulley mounting nut (2), and remove the outer pulley (5) and feather key (10).
2. Remove the pulley holder mounting bolts (17), and separate the left pulley holder (9) from the mower deck.

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CHECKING AND REPLACING THE BLADE

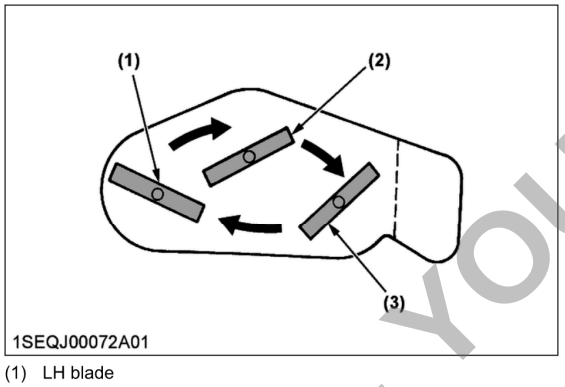
⚠ WARNING

To avoid serious injury or death:

- **Be sure to stop the engine and remove the key.**
- **Blades may be sharp. When you handle the blades, wear heavy gloves or wrap the end of the blade with a rag.**

■ IMPORTANT

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



(1) LH blade
(2) Center blade
(3) RH blade

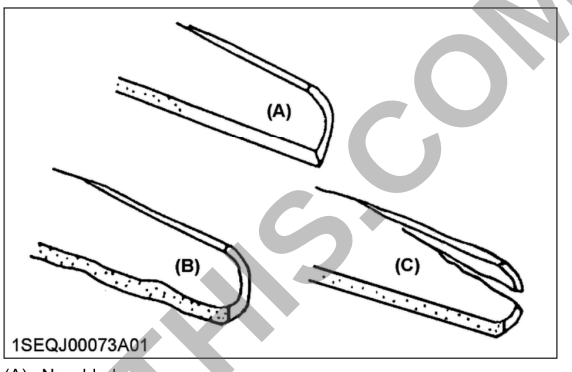
1. Cleaning the mower deck

- Before checking or replacing the blade, wipe grass and mud off the top and inside of the mower. Especially clean up the inside of the belt cover, otherwise the belt life will be reduced.

2. Checking the blade

The blade cutting edges should be kept sharp at all times.

1. Sharpen the cutting edges if they look like the blade (B).
2. Replace the blades if they look like the blade (C).



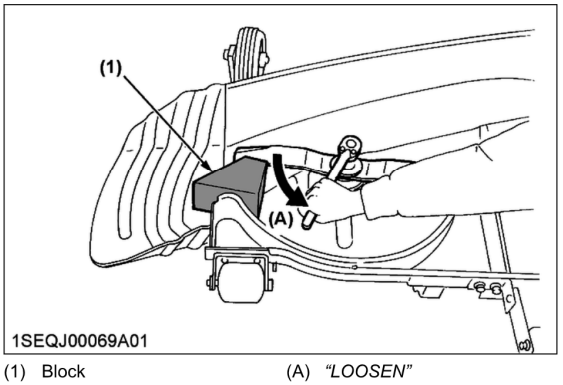
(A) New blade
(B) Worn blade
(C) Cracked blade

3. Replacing the blade

■ IMPORTANT

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

1. Remove the mower from the tractor.
2. Turn the mower over to expose the blades.
3. To prevent the spindle from rotating while removing the blade bolts, perform one of the following methods:
   - Wedge a block of wood between the blade and mower housing.
   - Use a box wrench over the pulley nut.
4. Loosen the blade bolts as follows.



(1) Block (A) *"LOOSEN"*

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