WSM

WORKSHOP MANUAL
ROTARY MOWER

RC72-38

Kubota

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GENERAL

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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 attempt to repair or use this unit.

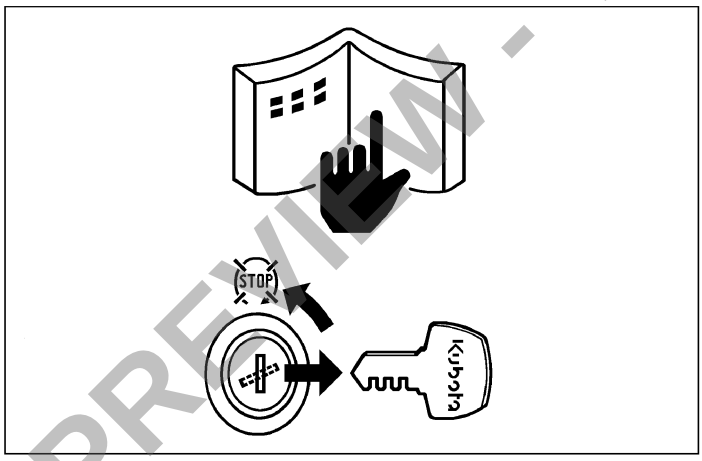
DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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, may result in minor or moderate injury.

■ IMPORTANT : Indicates that equipment or property damage could result if instructions are not followed.

■ NOTE : Gives helpful information.

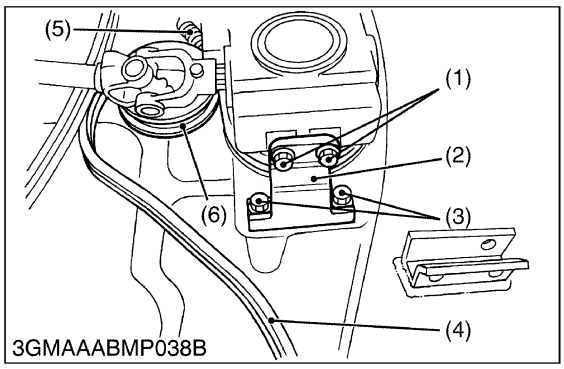


BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

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Gear Box and Mower Belt

1. Turn over the mower.
2. Remove the left and right hand belt cover from the mower deck.
3. Remove the mower belt (1) from the tension pulley (6).
4. Unscrew the left and right gear box mounting screws (3), (4) and remove the bracket (RH) (2) from the mower deck.
5. Remove the right hand bracket which mounts the gear box to the mower deck and slip the belt over the top of the gear box.

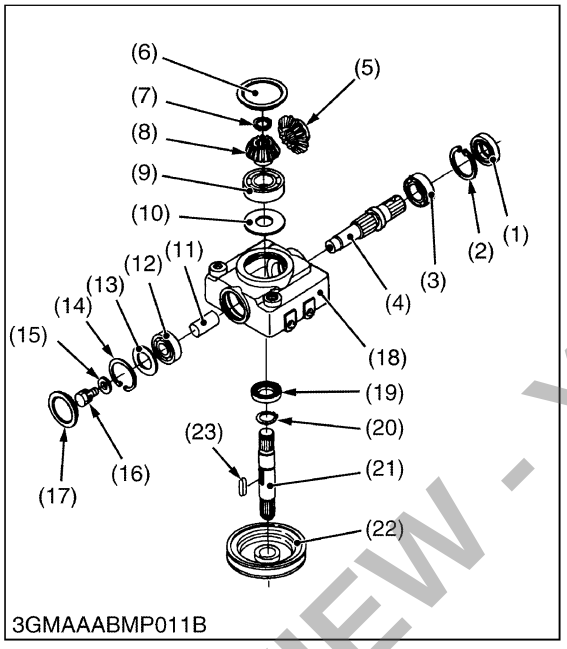
(When reassembling)

- Install the reamer screws (3) at their original positions as shown in the figure.

Tightening torque	Gear box mounting screw	77.6 to 90.2 N·m 8.0 to 9.2 kgf·m 57.1 to 66.5 ft-lbs

(1) Gear Box Mounting Screw (Reamer Screw)
(2) Bracket (RH)
(3) Gear Box Mounting Screw
(4) Mower Belt
(5) Tension Spring
(6) Tension Pulley

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Disassembling Gear Box

1. Unscrew the drain plug, and drain the gear box oil.
2. Remove the center pulley (22) with a puller, and remove the feather key (23) on the bevel gear shaft.
3. Remove the gear box caps (6), (17).
4. Remove the oil seal (1) and internal snap ring (2).
5. Remove the screw (16), washer (15) and tap out the pinion shaft (4) with ball bearing (3).
6. Remove the 19T bevel gear (5) and pinion shaft collar (11).
7. Remove the internal snap ring (14) and shims (13).
8. Remove the ball bearing (12).
9. Remove the external snap ring (7), and draw out the bevel gear shaft (21).
10. Remove the 16T bevel gear (8) with ball bearing (9).

(When reassembling)

- Replace the oil seals (1), (19) and gear box caps (6), (17) with new ones.
- Check the backlash and turning torque.
  If not proper, adjust with the shims (10) and (13). (See page S-10, 11)

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

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4. TIGHTENING TORQUES (GENERAL USE SCREWS, BOLTS AND NUTS)

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	⬡ 4 No-grade or 4T						⬡ 7 7T						⬡ 9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M6 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	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 (16 mm, 0.63 in.)	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 (18 mm, 0.71 in.)	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 (20 mm, 0.79 in.)	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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Grade / Unit / Nominal Diameter	SAE GR.5 ⬡ N·m	SAE GR.5 kgf·m	SAE GR.5 ft-lbs	SAE GR.8 ⬡ N·m	SAE GR.8 kgf·m	SAE GR.8 ft-lbs
5/16	23.1 to 27.8	2.35 to 2.84	17.0 to 20.5	32.5 to 39.3	3.31 to 4.01	24.0 to 29.0
3/8	47.5 to 57.0	4.84 to 5.82	35.0 to 42.0	61.0 to 73.2	6.22 to 7.47	45.0 to 54.0
1/2	108.5 to 130.2	11.07 to 13.29	80.0 to 96.0	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0
9/16	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0	217.0 to 260.4	22.14 to 26.57	160.0 to 192.0
5/8	203.4 to 244.1	20.75 to 24.91	150.0 to 180.0	298.3 to 358.0	30.44 to 36.53	220.0 to 264.0

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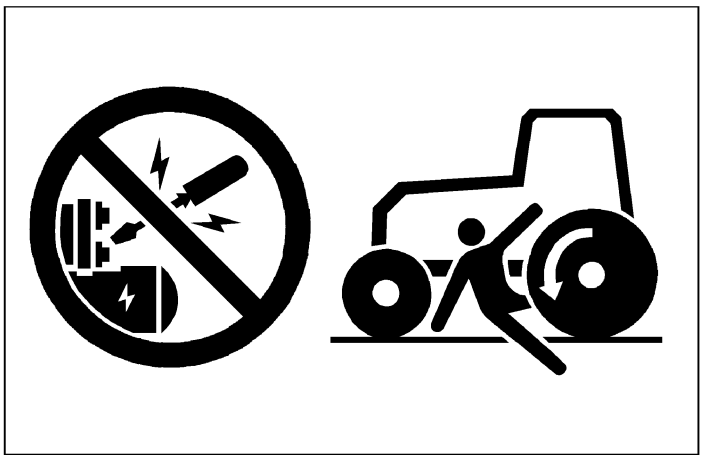
SPECIFICATIONS

Model		RC72-38
Suitable tractor		L3130, L3430, L3830
Type		Side discharge rotary mower
Mounting method		Parallel linkage
Adjustment of cutting height		Gauge wheel
Cutting width		1826 mm (72 in.)
Cutting height		38 to 114 mm (1.5 to 4.5 in.)
Weight (Approx.)		210 kg (463 lbs)
Blade spindle speed		49.7 s^{-1} (r/s) [2980 min^{-1} (rpm)]
Blade tip velocity		81.4 m/s (16013 fpm)
Blade length		625 mm (24.6 in.)
Number of blades		3
Dimensions	Total length	1203 mm (47.4 in)
	Total width	2235 mm (88.0 in.)
	Total height	376 mm (14.8 in.)

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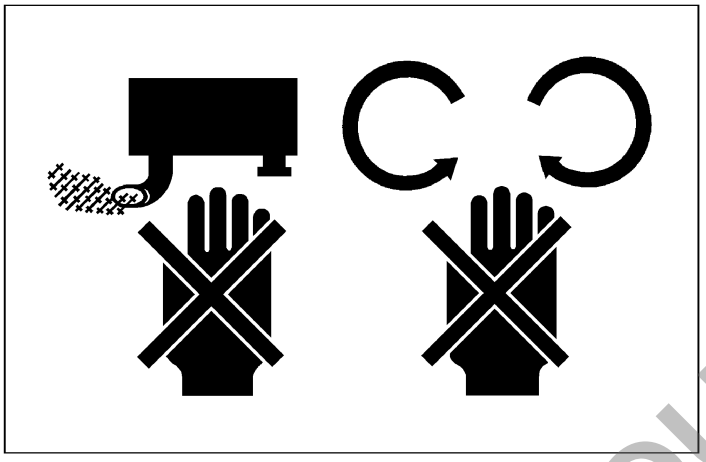
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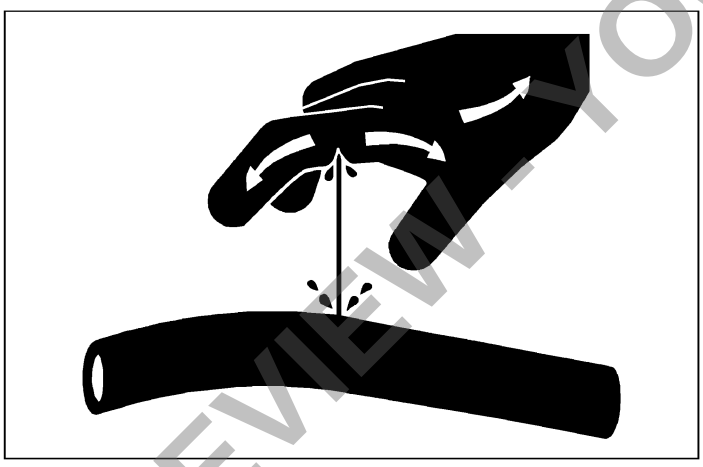
SAFETY STARTING

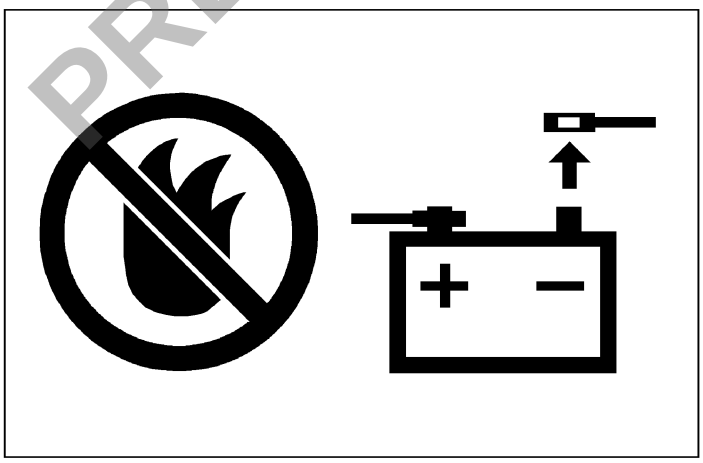
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.



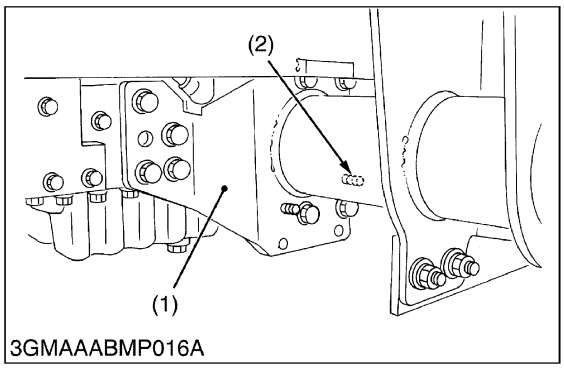


AVOID FIRES

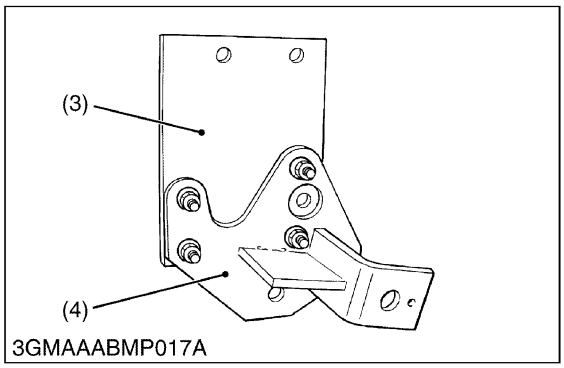
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Mark sure that no fuel has been spilled on the engine.

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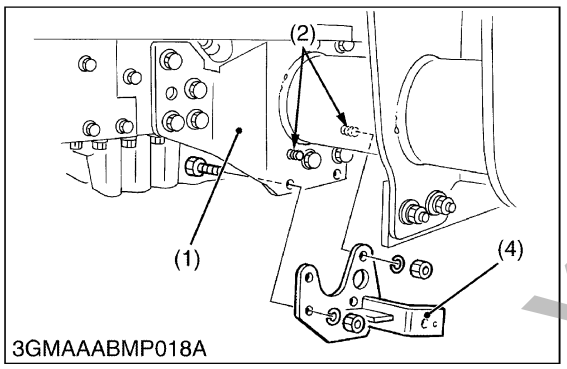
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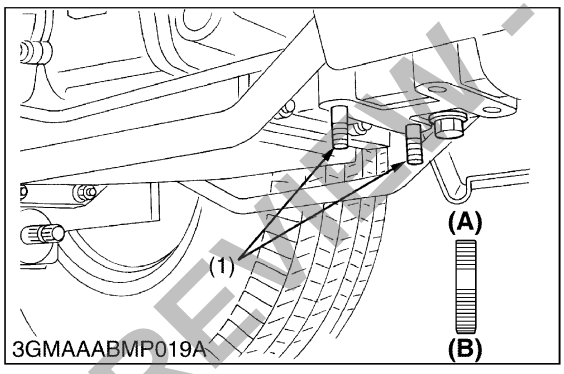
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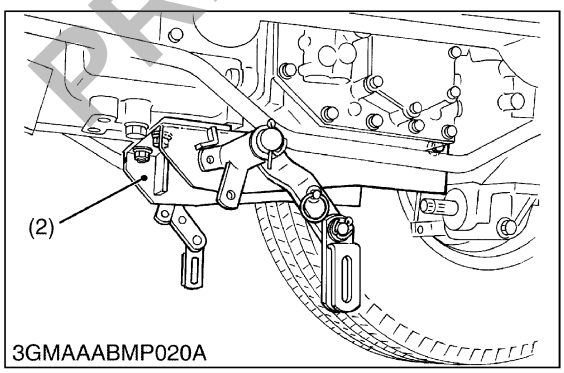
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Mid Hanger Bracket (for Tractor with Front Loader)

1. Dismount the front loader assembly from the loader main frame (1).
2. Set the M12 stud bolts (2) to the loader main frame (1).
3. Loosen the nuts of mid hanger bracket (4) and remove the spacers (3).
4. Install the mid hanger bracket to loader main frame (1).

(1) Loader Main Frame
(2) M12 Stud Bolt
(3) Spacer
(4) Mid Hanger Bracket

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Rear Hanger Bracket

1. Set the M12 stud bolts (1).
2. Install the rear hanger bracket (2).

(1) M12 Stud Bolt
(2) Rear Hanger Bracket
(A) Flat End (Transmission Case Side)
(B) Round End

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