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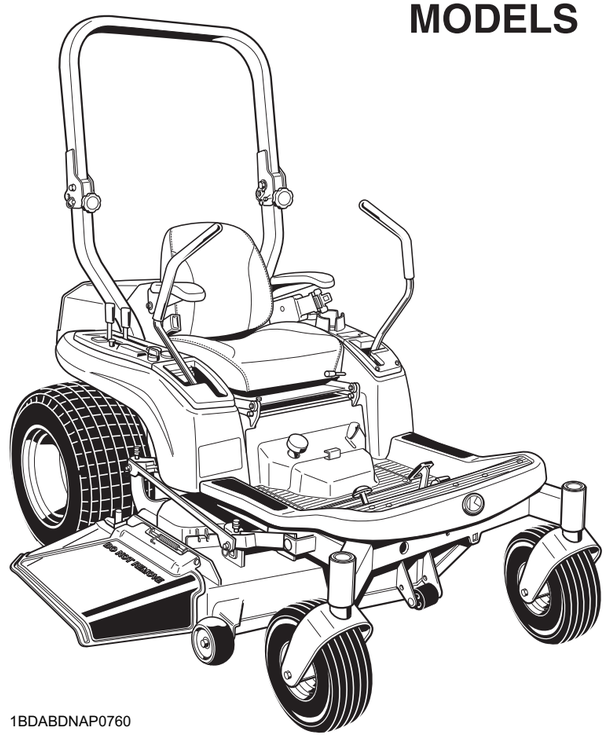
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ZG222A-AU · ZG227A-AU

OPERATOR'S MANUAL

KUBOTA
ZERO TURN MOWER

MODELS ZG222A-AU
ZG227A-AU



1BDABDNAP0760

READ AND SAVE THIS MANUAL

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Kubota

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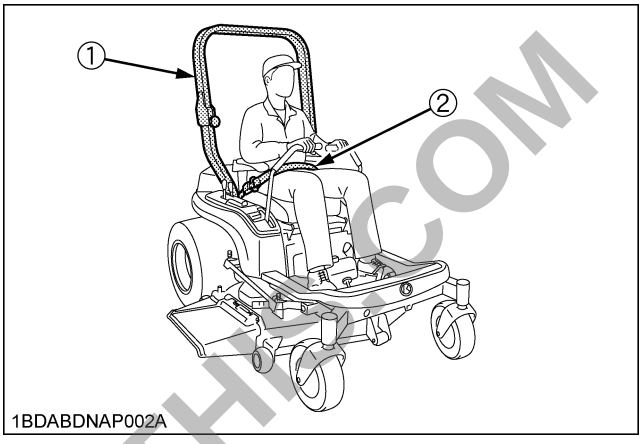
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⚠ SAFE OPERATION

Careful operation is your best insurance against an accident. Read and understand this manual carefully before operating the machine. All operators, no matter how much experience they may have had, should read this and other related manuals before operating the machine or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.
This mowing machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

1. BEFORE OPERATING

1. The ZERO TURN MOWING MACHINE has different steering characteristics than other machines with a steering wheel and does not have a service brake pedal (but, has a parking brake lock pedal that can be used to stop the machine in an emergency. Normal slowing down and stopping is done with the motion control levers.). Read and understand the operators manual before operating the machine. Practice operating machine at low engine speed without mower engaged in an unobstructed area.
2. Know your equipment and its limitations. Read all instructions in this manual and machine safety labels before attempting to start and operate the machine.
3. Pay special attention to the safety labels on the machine itself.
4. KUBOTA recommends the use of a Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death, should the machine be upset.
   The machine is equipped with a Foldable ROPS, which may be temporarily folded down only when absolutely necessary for areas with height constraints. (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)
   If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the machine.
   Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
   A damaged ROPS structure must be replaced, not repaired or revised.
   If any structural member of the ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) ROPS
(2) Seat belt

5. Always use the seat belt when the ROPS is upright. Do not use the seat belt if the ROPS is down or if there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.
6. Do not allow any bystanders around or near machine during operation.
7. Do not allow passengers, children or non-qualified operators on the machine at any time. The operator must remain in the machine seat throughout operation.
8. Do not operate the machine or any attachments while under the influence of alcohol, medication, controlled substances or when fatigued.
9. Do not wear loose, torn, or bulky clothing around machine. The clothing may catch on moving parts or controls, leading to the risk of accident. Wear and use any additional safety items such as hard hat, safety boots or shoes, eye and hearing protection, gloves, etc. as appropriate or required.
10. Do not wear radio or music headphones while operating the machine.
    Safe operation requires your full attention.
11. Carefully check the vicinity before operating machine or any implement attached to it. Clear the work area of objects (wires, rocks, etc.) that might be picked up and thrown. Check for overhead clearance which may interfere with a grass catcher.
12. Check brakes and other mechanical parts for correct adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "PERIODIC SERVICE" and "ADJUSTMENT" section.)
13. Keep all shields and guards in place. Replace any that are damaged or missing.

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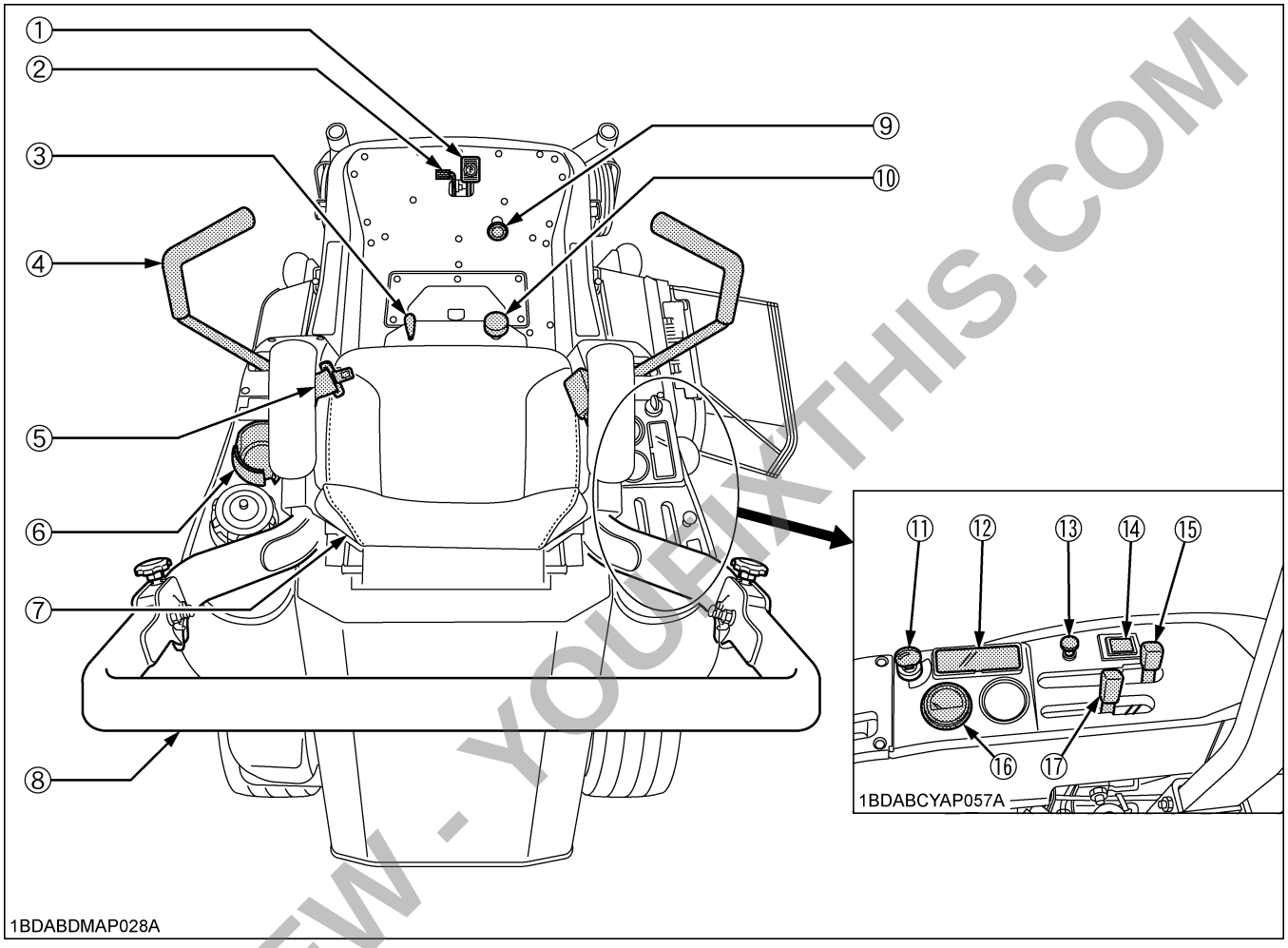
SPECIFICATIONS

Model				ZG222A-AU	ZG227A-AU
Engine	Model			KGZ770-MA3	KGZ770-MA2
	Max. engine power (Gross)		kW (HP)	16.4 (22) (*1)	20.1 (27) (*1)
	Type			Air-cooled gasoline engine	
	Number of cylinders			2 (V-Twin)	
	Bore and stroke		mm (in.)	84.2 x 69 (3.31 x 2.72)	
	Total displacement		cm^3 (cu. in.)	768 (46.9)	
	Rated revolution		rpm	3200	
	Fuel			Automobile unleaded or regular gasoline	
	Starter			Electric starter with battery	
	Lubrication			Full pressure lubrication	
	Cooling			Forced air cooled	
	Battery			U1L-10 (12 V, RC: 22 min, CCA: 300, CA: 365)	
Capacities	Fuel tank		L (U.S.gals.)	27 (7.1)	
	Engine crankcase (with filter)		L (U.S.qts.)	1.8 (1.9)	2.0 (2.1)
	Transmission case including Rear axle gear case		L (U.S.qts.)	7.5 (7.9) (*3)	
Dimensions	Overall length		mm (in.)	2096 (82.5)	
	Overall width w/o mower deck		mm (in.)	1210 (47.7)	
	Overall height	With ROPS upright	mm (in.)	1775 (69.9)	
		With ROPS folded	mm (in.)	1340 (52.8)	
	Wheelbase		mm (in.)	1295 (51.0)	
	Min. ground clearance		mm (in.)	130 (5.12) W/48"	130 (5.12) W/54"
	Tread	Front	mm (in.)	870 (34.3)	
		Rear	mm (in.)	930 (36.6)	
Weight (W/MOWER DECK)			kg (lbs.)	530 (1168) with 48"	540 (1190) with 54"
Traveling system	Tires	Front		13 x 5.0 - 6 (4PR) Rib	
		Rear		23 x 10.5 - 12 (4PR) Turf	
	Traveling speeds *2	Forward	mph (km/h)	0 to 9.0 (0 to 14.5)	
		Reverse	mph (km/h)	0 to 5.0 (0 to 8.0)	
	Steering			2 - Hand levers	
	Transmission			2 - HST w / Gear	
	Parking brake			Wet multi disk / Foot applied, released	
	Min. turning radius		mm (in.)	0 (0)	

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INSTRUMENT PANEL AND CONTROLS



ILLUSTRATED CONTENTS

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ILLUSTRATED CONTENTS

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OPERATING THE MACHINE

OPERATING NEW MACHINE

How a new machine is operated and maintained determines the life of the machine.

A new machine just off the factory production line has been, of course, tested, but the various parts are not accustomed to each other, so care should be taken to operate the machine for the first 50 hours at a slower speed and avoid excessive work or operation until the various parts become "broken-in." The manner in which the machine is handled during the "breaking-in" period greatly affects the life of your machine. Therefore, to obtain the maximum performance and the longest life of the machine, it is very important to properly break-in your machine. In handling a new machine, the following precautions should be observed.

■Changing Lubricating Oil for New Machines

The lubricating oil is especially important in the case of a new machine. The various parts are not "broken-in" and are not accustomed to each other; small metal grit may develop during the operation of the machine; and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than would ordinarily be required.

For further details of change interval hours.

(See "SERVICE INTERVALS" in "MAINTENANCE" section.)

■Engine Break-in

After the first 50 hours of operation, change the engine oil and filter. (See "EVERY 100 HOURS" "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)

■Machine Break-in

After the first 400 hours of operation, change the transmission fluid. (See "EVERY 400 HOURS" in "PERIODIC SERVICE" section.)

After the first 50 hours of operation, change the oil filter cartridge. (See "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)

DANGER

To avoid serious injury or death:

- **Do not operate the mower without the deflector shield in the down position.**

WARNING

To avoid serious injury or death:

- **The machine relies upon the engine driven transmission for speed, direction and motion control. If the engine is not running, the machine cannot be driven or controlled.**
  If the engine stops when operating on a slope, apply the parking brake immediately to prevent machine runaway.
- **Do not allow any person other than the driver to ride on the machine.**
- **Do not drive the machine close to the edges of ditches or banks which may collapse under the weight of the machine, especially when the ground is loose or wet.**
- **When turning the machine, be sure to reduce the travel speed and operate motion control levers carefully.**
- **To avoid tip over, operate across slopes, not up and down. Avoid sudden starts and stops on slopes. Slow down, and use extra caution when changing direction on a slope.**
  Park the machine on a firm and level surface.
- **Watch where you are going at all times. Watch for and avoid obstacles. Be alert at curbs, near trees, and other obstructions and hidden hazards.**
- **Do not mow near drop-offs, ditches or embankments. The mower could turn over if a wheel is over the edge of cliff or ditch, or if an edge caves in.**
- **Do not drive machine on streets or highways. Watch for traffic when you cross roads or operate near roads.**
- **Look to the rear before and when backing. Make sure the area immediately behind you is clear of obstructions or holes and small children. Use extra caution when machine is equipped with Grass Catcher.**
- **Keep bystanders especially children and animals away from the mowing area.**

CAUTION

To avoid personal injury:

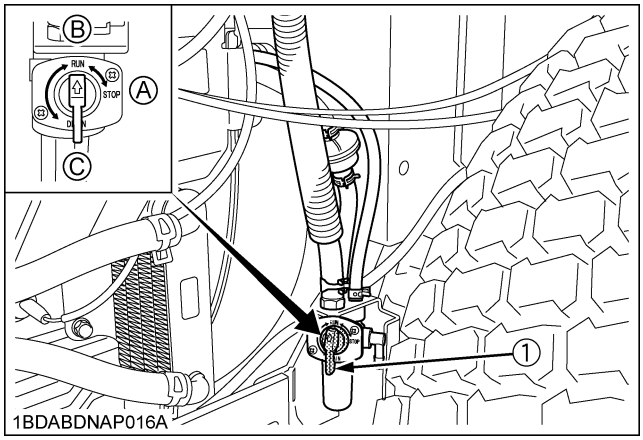
- **Clear the work area of objects which might be picked up and thrown by blades.**
- **Do not direct the opening of the chute at bystanders or animals. Ejected objects may cause injury. Plan your mowing carefully before starting operation.**
- **Be sure to disengage the PTO and sit on the operator's seat before starting the engine.**

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STOPPING THE ENGINE

1. After slowing the engine to half speed, turn the key switch to the "OFF" position.
2. Remove the key.
3. Do not leave the key switch "ON" (key in the "ON" position) as the battery will discharge when the engine is not running.
4. Apply the parking brake.
5. Turn the carburetor fuel valve to "STOP" (CLOSE) position.



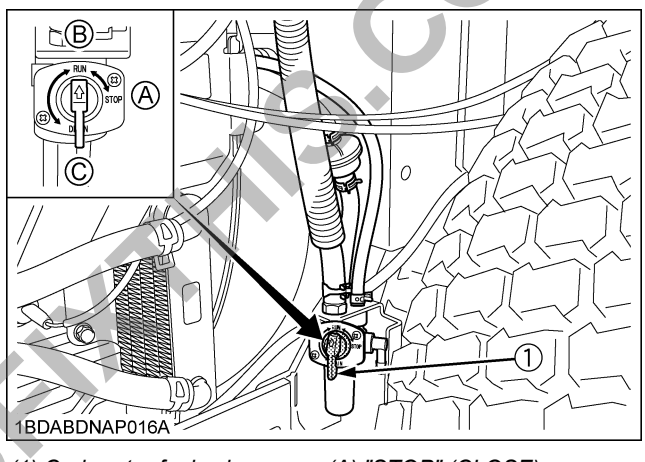
(1) Carburetor fuel valve
(A) "STOP" (CLOSE)
(B) "RUN" (OPEN)
(C) "DRAIN"

IMPORTANT :

- Do not stop the engine when the machine is on an incline for a long time. The engine oil may go into the carburetor and the muffler through the valve system.
- Place the throttle control lever in the half speed position to help prevent the engine from backfiring before stopping the engine.

■Engine Stop (By manual)

The engine stops when the key switch is turned off. If the engine does not stop, make sure the motion control levers are in "NEUTRAL LOCK" position, the PTO lever is "OFF", the mower lowered to the ground, apply the parking brake, and confirm it is set, then carefully get off the machine. Turn the carburetor fuel valve to "STOP" (CLOSE) position and wait until the engine stops. Then contact your local KUBOTA Dealer immediately.



(1) Carburetor fuel valve
(A) "STOP" (CLOSE)
(B) "RUN" (OPEN)
(C) "DRAIN"

CAUTION

To avoid personal injury:

- **Do not operate the machine until the engine stop system is repaired.**

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, refer to the table below for the cause and its corrective measure.

Symptom (If)	Cause	Remedy
Engine is difficult to start or will not start.	● No operator on the seat.	● Sit on the operator's seat.
	● Parking brake pedal not in the proper position.	● Apply the parking brake.
	● PTO lever not in the proper position.	● Make sure PTO lever is in "DISENGAGED" (OFF) position.
	● Motion control levers not in the proper position.	● Make sure motion control levers are in "NEUTRAL LOCK" position.
	● Key switch is not in the proper position.	● Make sure key switch is in "ON" position.
	● Carburetor fuel drain valve in the "STOP" (CLOSE) position.	● Open the carburetor fuel valve. "RUN" (OPEN) position.
	● No fuel.	● Replenish fuel.
	● Improper or stale fuel. (Fuel quality is poor.)	● Replace fuel and the fuel filter.
	● Water or dirt in the fuel system.	● Replace fuel and see your Kubota dealer.
	● Fuel hose or fuel filter clogged or damaged.	● Clean or replace fuel lines, and see your Kubota dealer.
	● Air cleaner is clogged.	● Clean or replace the air cleaner.
	● Spark plug defective.	● Adjust the spark plug gap or replace the spark plug.
		● Check the spark plug wire connection.
	● Fuse is blown.	● Replace the fuse.
	● Engine oil viscosity is wrong.	● Use oils of different viscosities, depending on ambient temperature.
	● Battery becomes weak and the engine does not turn over quick enough.	● Clean battery cables and terminals.
		● Charge the battery.
		● In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the machine only when the machine is going to be used.
	● Over choking or choke is adjusted incorrectly.	● Check and see your Kubota dealer.
Insufficient engine power.	● Insufficient or dirty fuel.	● Check the fuel system.
	● Fuel filter is clogged.	● Replace the fuel filter.
	● Air cleaner is clogged.	● Clean or replace the air cleaner.
	● Spark plug defective.	● Adjust the spark plug gap or replace it.

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MOWER MOUNTING

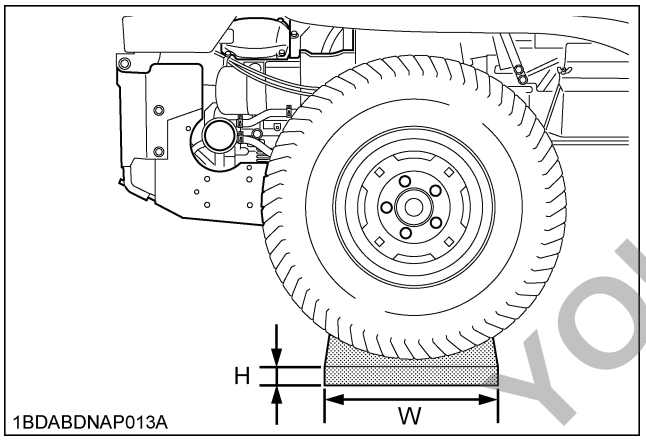
MOUNTING THE MOWER DECK

CAUTION

To avoid personal injury:

- **Park the machine on a firm and level surface.**
- **Apply the parking brake.**
- **Stop the engine and remove the key.**

1. Before mounting the mower deck, raise the lift links to the full up position.
2. Adjust the cutting height control dial to 1 in. position.
3. Go backward so that right and left rear tires would be on the board 40 mm (1.57 in.) high.

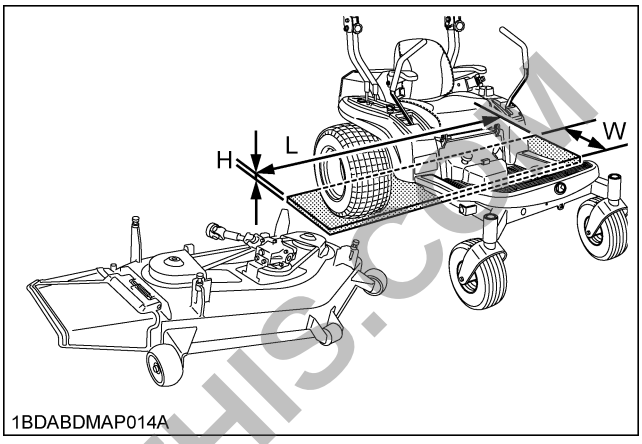


H: 40 mm (1.57 in.) *W: 300 mm (11.8 in.)*

IMPORTANT :

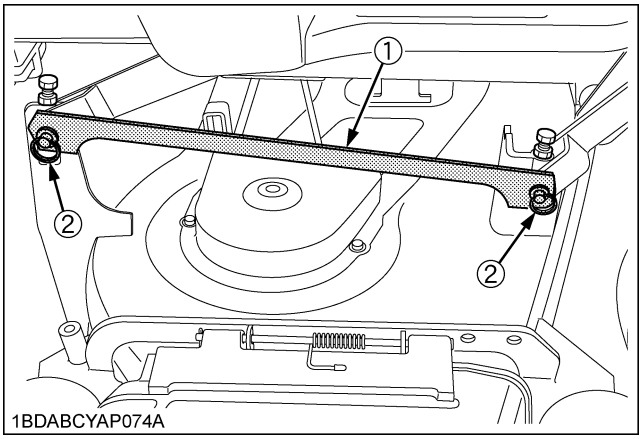
- Use a board more than 300 mm (11.8 in.) wide and 1400 mm (55.1 in.) long.
- Make sure that right and left rear tires are firm on the board.

4. Change the direction of the front tires as shown in the figure.
5. Place the mower deck at the right side of the machine.



H: 40 mm (1.57 in.) *W: 300 mm (11.8 in.)*
L: 1400 mm (55.1 in.)

6. Slide the mower deck under the machine, and make sure that the mower gear case is placed properly in the center of the machine.
7. Adjust the lift pedal to the lowest position and pull down the lift links.
8. Attach the lift links to the mower deck with attaching hardware.



(1) Lift link
(2) Clevis pin, Plain washer, Snap ring

9. Install universal joint.
   Pull back the coupler of the universal joint.
   Push the universal joint onto the PTO shaft until the coupler locks.

IMPORTANT :

- Tug the universal joint backward and forward to make sure it is locked securely.

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LUBRICANTS AND FUEL

Place	Capacities		Lubricants
	ZG222A-AU	**ZG227A-AU**	
Fuel	27 L (7.1 U.S. gals.)		• Automobile unleaded or regular gasoline • Unleaded gasoline 87 octane or higher
Engine crankcase	1.8 L (1.9 U.S.qts.)*1	2.0 L (2.1 U.S.qts.)*1	• Engine oil: API service Classification SG, SH, SJ or higher Above -18 ℃ (0 ℉)...SAE10W-30 or 10W-40 Below 0 ℃ (32 ℉).....SAE5W-20 or 5W-30
Transmission case with filter & hose Rear axle gear case (RH &LH)	7.5 L (7.9 U.S.qts.)		• KUBOTA UDT or SUPER UDT fluid*2
Mower gear box	0.4 L (0.42 U.S.qts.)		SAE90 gear oil (API service classification: more than GL-3)

Greasing	No. of greasing points	Capacity	Type of grease
Front axle	2	Until grease overflows	• Multipurpose EP2 Grease (NLGI Grade No.2)
Front wheel	2		
Front lift arm	2		
Parking brake lock pedal	1		
Motion control lever pivot bushing, and contact position	6		
Universal joint	1		
Seat adjuster	2		
Cable (throttle cable, mower lift cable, choke cable)	5	Moderate amount	• Oil
[MOWER]		Until grease overflows	• Multipurpose EP2 Grease (NLGI Grade No.2)
Universal joint	3		
Three spindle shafts	3		
Belt tension pulley	1		
Belt tension pivot	1		
Anti scalp roller	4		

Note *1 Oil amount when the oil level is at the upper level of the oil level gauge.
*2 KUBOTA original transmission hydraulic fluid

IMPORTANT :
- To prevent serious damage to hydraulic systems, use only KUBOTA genuine fluid or its equivalent.

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MAINTENANCE

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.

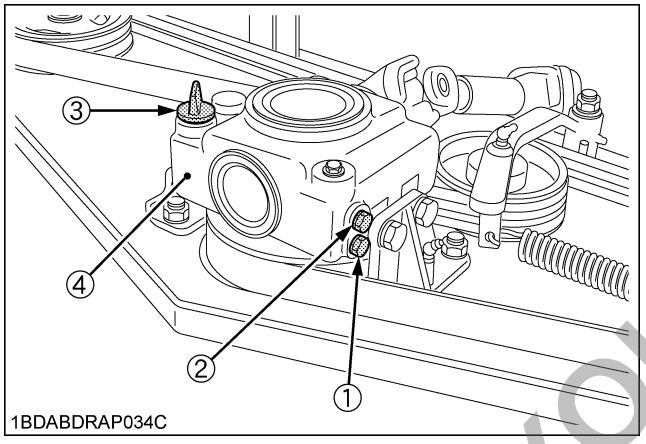
No.	Items		Indication hour meter (Hr)													Ref. Page	
			50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Engine oil	Change	◎		○		○		○		○		○		every 100Hr	51	
2	Engine oil filter	Replace	◎				○				○				every 200Hr	60	
3	Transmission oil filter	Replace	◎			○				○				○	every 200Hr	63	
4	Transmission strainer	Clean								◎					every 400Hr	66	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								◎					every 400Hr	64	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	48	
		Change			○			○			○			○	every 150Hr	59	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	47	
8	Greasing (except mower)	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	49	
9	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	50	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	51	*1
		Replace													every 1 year	66	
	Secondary element	Replace													every 1 year	66	
11	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	54	
		Replace								○					every 400Hr	66	*2
12	Fuel line	Check		○		○		○		○		○		○	every 100Hr	54	
		Replace													every 2 years	67	*2
13	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	56	*2
14	Battery condition	Check		○		○		○		○		○		○	every 100Hr	57	
15	Engine shroud panel	Clean		○		○		○		○		○		○	every 100Hr	52	*2
16	Engine oil cooler fins [ZG227 only]	Clean		○		○		○		○		○		○	every 100Hr	53	*1 *2
17	Fuel filter bowl	Clean		○		○		○		○		○		○	every 100Hr	55	
18	Throttle cable	Adjust		○		○		○		○		○		○	every 100Hr	59	
19	Spark plug condition and gap	Check				○				○				○	every 200Hr	61	
20	Hydraulic hose	Check				○				○				○	every 200Hr	62	
		Replace													every 2 years	67	*2
21	Intake air line	Check				○				○				○	every 200Hr	64	
		Replace													every 2 years	67	*4
22	Engine breather hose	Replace													every 2 years	67	*3
23	Motion control lever pivot	Adjust				○				○				○	every 200Hr	63	
24	Engine shroud	Clean				○				○				○	every 200Hr	64	*3
25	Engine valve clearance	Adjust										○			every 500Hr	66	
26	Combustion chamber	Clean													*5	66	
27	Mower gear box oil seal	Replace													every 2 years	67	*2

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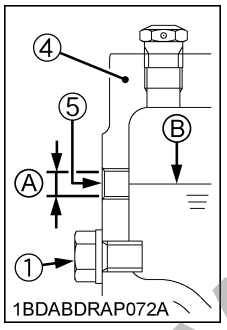
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If serial numbers of mower are as indicated below
RCK48P-222Z:30001 and above
RCK54P-227Z:30001 and above

1. To drain the used oil, remove the drain plug and oil inlet plug with gauge at the gear box and drain the oil completely into the oil pan.
2. After draining reinstall the drain plug.
3. Remove the oil level check plug.
4. Fill with the new oil up to the check plug port. (See "LUBRICANTS AND FUEL" in "MAINTENANCE" section.)
5. After filling reinstall the check plug and oil inlet plug with gauge securely.



1BDABDRAP034C



1BDABDRAP072A

(1) Drain plug
(2) Check plug
(3) Oil inlet plug with gauge
(4) Gear case
(5) Check plug port
(A) Oil level is acceptable within this range.
(B) Oil level

EVERY 200 HOURS

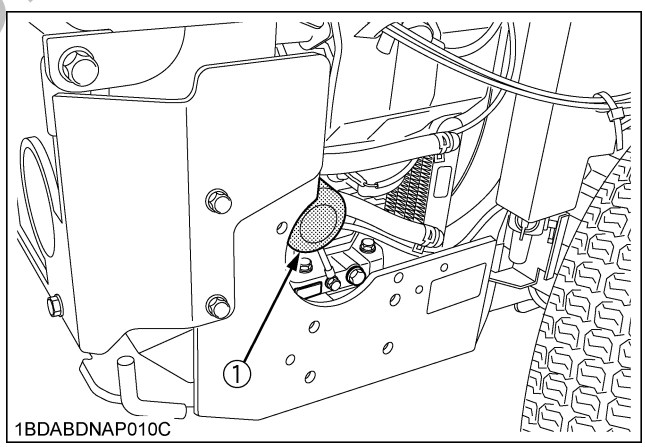
■Replacing Engine Oil Filter

CAUTION

To avoid personal injury:
- **Be sure to stop the engine and remove the key before changing the oil and the oil filter.**
- **Allow engine to cool down sufficiently; oil can be hot and may cause burns.**

1. The oil filter must be changed every 200 service hours.
2. Apply a slight coat of oil onto the rubber gasket of new filter.
3. Tighten the filter quickly until it contacts the mounting surface. Tighten filter by hand an additional 1/2 turn only.
4. After the new filter has been replaced, the engine oil level normally lowers a little. Add engine oil to proper level. Check for oil leaks around filter gasket.

IMPORTANT :
- To prevent serious damage to the engine, replacement element of the recommended type must be used. Use only a genuine KUBOTA filter or its equivalent.



1BDABDNAP010C

(1) Engine oil filter

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