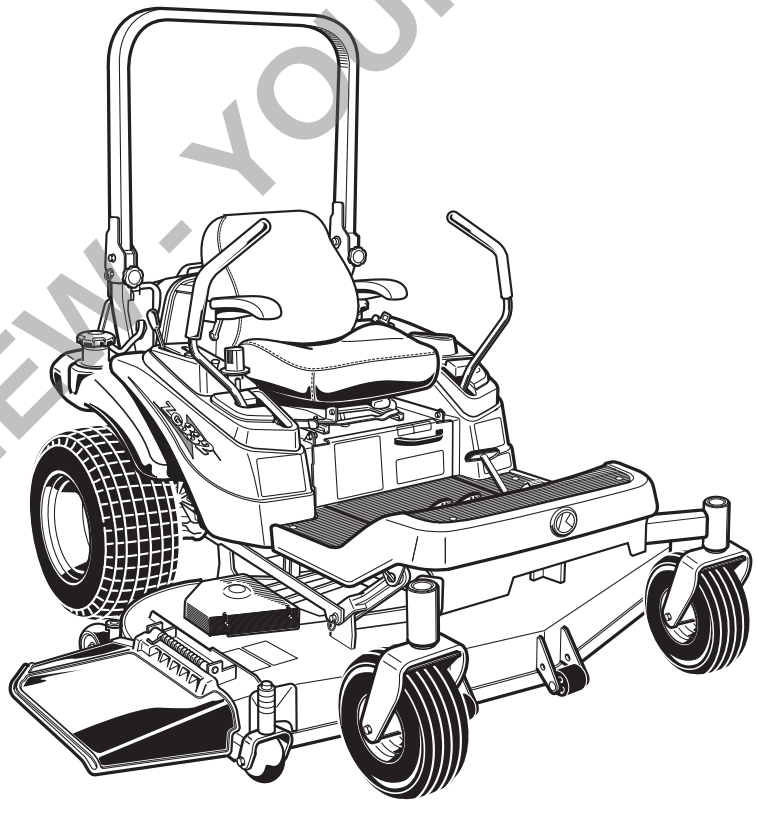
OPERATOR'S MANUAL

ENGLISH

KUBOTA
ZERO TURN MOWER

MODEL ZG332



1BDABDRAP0010

K3241-7128-4

READ AND SAVE THIS MANUAL

Kubota

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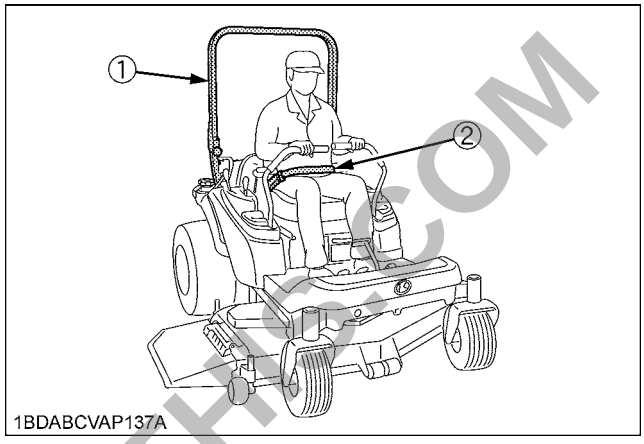
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SAFE OPERATION

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 before attempting to start and operate the machine.
3. Pay special attention to the danger, warning and caution 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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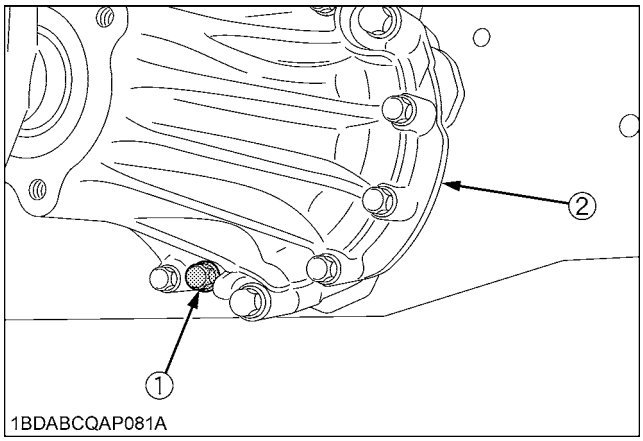
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SPECIFICATIONS

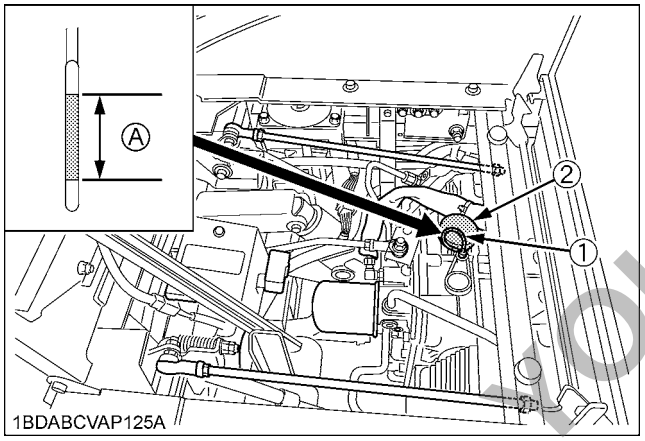
Model				ZG332P	ZG332LP
Engine	Model			WG972-G-E3-ZG-1	
	Max. engine power (Gross)		kW (HP)	24.2 (32.5) (*1)	
	Type			Liquid-cooled gasoline engine	
	Number of cylinders			3	
	Bore and stroke		mm (in.)	74.5 x 73.6 (2.93 x 2.90)	
	Total displacement		cm^3 (cu. in.)	962 (58.7)	
	Fuel			Automobile unleaded or regular gasoline	
	Starter			Electric starter with battery	
	Lubrication			Forced lubrication by gear pump	
	Cooling			Liquid with pressurized radiator	
	Battery			51R (12 V, RC: 70 min, CCA: 475A)	
Capacities	Fuel tank		L (U.S.gals.)	49 (12.9)	
	Engine crankcase (with filter)		L (U.S.qts.)	3.5 (3.7)	
	Engine coolant		L (U.S.qts.)	2.7 (2.85)	
	Recovery tank		L (U.S.qts.)	0.25 (0.26)	
	Transmission case including Rear axle gear case		L (U.S.qts.)	12.1 (12.8) (*3)	
Dimensions	Overall length		mm (in.)	2329 (91.7)	2414 (95.0)
	Overall width w/o mower deck		mm (in.)	1460 (57.5)	
	Overall height	With ROPS upright	mm (in.)	1915 (75.4)	
		With ROPS folded	mm (in.)	1645 (64.8)	
	Wheelbase		mm (in.)	1410 (55.5)	1495 (58.8)
	Min. ground clearance		mm (in.)	130 (5.12) W/60", W/72"	
	Tread	Front	mm (in.)	975 (38.4)	1070 (42.1)
		Rear	mm (in.)	1150 (45.3)	
Weight (W/MOWER DECK)			kg (lbs.)	749 (1651) with 60"	800 (1763) with 72"
Traveling system	Tires	Front		15 x 6.0 - 6 (Semi-pneumatic Non Flat Tire) Rib	
		Rear		26 x 12.0 - 12 (4PR) Turf	
	Traveling speeds *2	Forward	mph (km/h)	0 to 10.6 (0 to 17.0) (*2)	
		Reverse	mph (km/h)	0 to 5.3 (0 to 8.5) (*2)	
	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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(1) Drain plug
(2) Rear axle gear case LH



(1) Oil level dipstick
(2) Oil plug and breather cup
(A) Oil level is acceptable within this range.

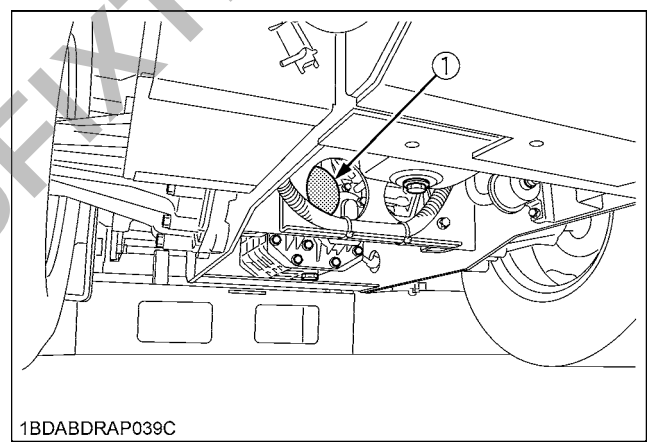
■Replacing Hydraulic Oil Filter

CAUTION

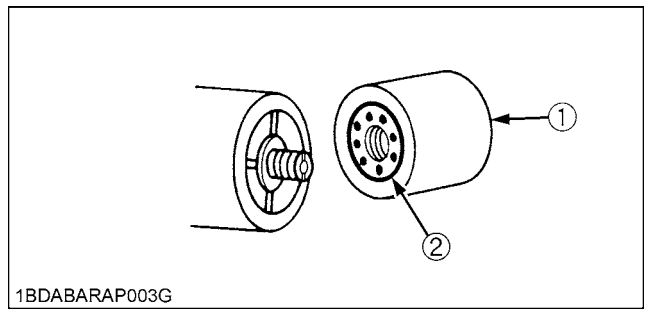
To avoid personal injury:

- **Be sure to stop the engine and remove the key before changing the oil filter.**
- **Allow transmission case to cool down sufficiently; oil can be hot and may cause burns.**

1. The oil filter must be changed every 400 service hours.
2. To drain the transmission oil, place oil pan underneath the transmission case and the rear axle gear case (RH&LH) and remove the drain plug at the bottom of the transmission case and the rear axle gear case (RH&LH).
3. After draining, reinstall the drain plugs.
4. Remove the oil filter by using the filter wrench.



(1) Oil filter



(1) Oil filter *(2) Gasket*

5. Apply a slight coat of oil onto the gasket of new filter.
6. Tighten the filter quickly until it contacts the mounting surface. Tighten filter by hand an additional 1/2 turn only.
7. After the new filter has been replaced, the transmission fluid level normally lowers a little. Add fluid to proper level. Check for oil leaks around filter gasket.

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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	55	
2	Engine oil filter	Replace	◎				○				○				every 200Hr	65	
3	HST transmission oil filter	Replace	◎			○				○				○	every 200Hr	67	
4	Hydraulic oil filter	Replace								◎					every 400Hr	69	
5	Transmission fluid and Rear axle gear case (RH & LH) fluid	Change								◎					every 400Hr	68	
6	Mower gear box oil	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	51	
		Change			○			○			○			○	every 150Hr	64	
7	Safety device	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	50	
8	Greasing (except mower)	---	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	52	
9	Oiling	---	○	○	○	○	○	○	○	○	○	○	○	○	every 50Hr	54	
10	Air cleaner primary element	Clean		○		○		○		○		○		○	every 100Hr	56	*1
		Replace													every 1 year	70	
	Secondary element	Replace													every 1 year	70	
11	Carbon canister air filter	Check		○		○		○		○		○		○	every 100Hr	63	*2
		Replace													every 2 years	73	
12	Fuel filter element	Check		○		○		○		○		○		○	every 100Hr	57	
		Replace								○					every 400Hr	70	*2
13	Fuel line	Check		○		○		○		○		○		○	every 100Hr	57	
		Replace													every 2 years	73	*2
14	Fan belt	Adjust		○		○		○		○		○		○	every 100Hr	59	
15	Parking brake	Adjust		○		○		○		○		○		○	every 100Hr	60	*2
16	Battery condition	Check		○		○		○		○		○		○	every 100Hr	61	

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OPERATING THE ENGINE

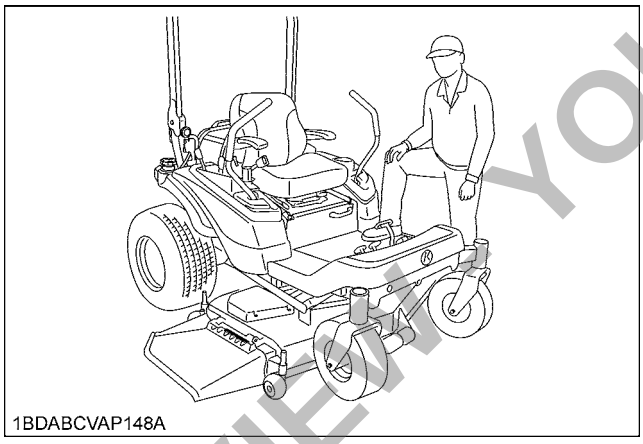
CAUTION

To avoid personal injury:

- **Read "SAFE OPERATION" in the front of this manual.**
- **Read the danger, warning and caution labels located on the machine.**
- **To avoid danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start the engine while standing on the ground. Start the engine only from operator's seat.**

MOUNT AND DISMOUNT MACHINE SAFELY

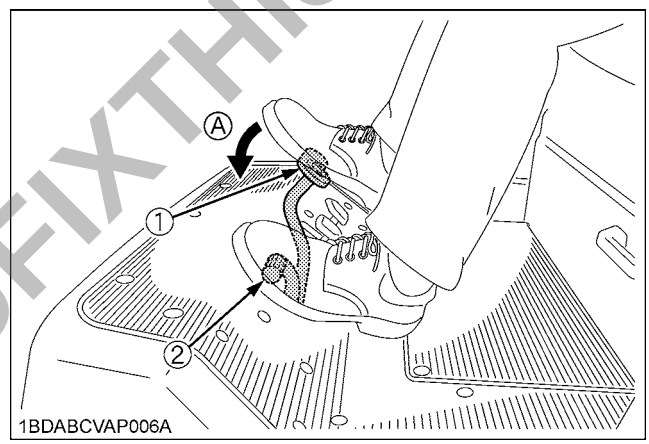
DO NOT step on either side of the mower deck when mounting and dismounting the machine. When mounting the machine from either side, step over the mower deck.



STARTING THE ENGINE

1. **Sit on the operator's seat.**
2. **Apply the parking brake.**

To apply the parking brake:
Depress the parking brake pedal firmly with your right foot and the parking brake lock pedal simultaneously with your left foot. Then release the parking brake pedal while holding the parking brake lock pedal down.



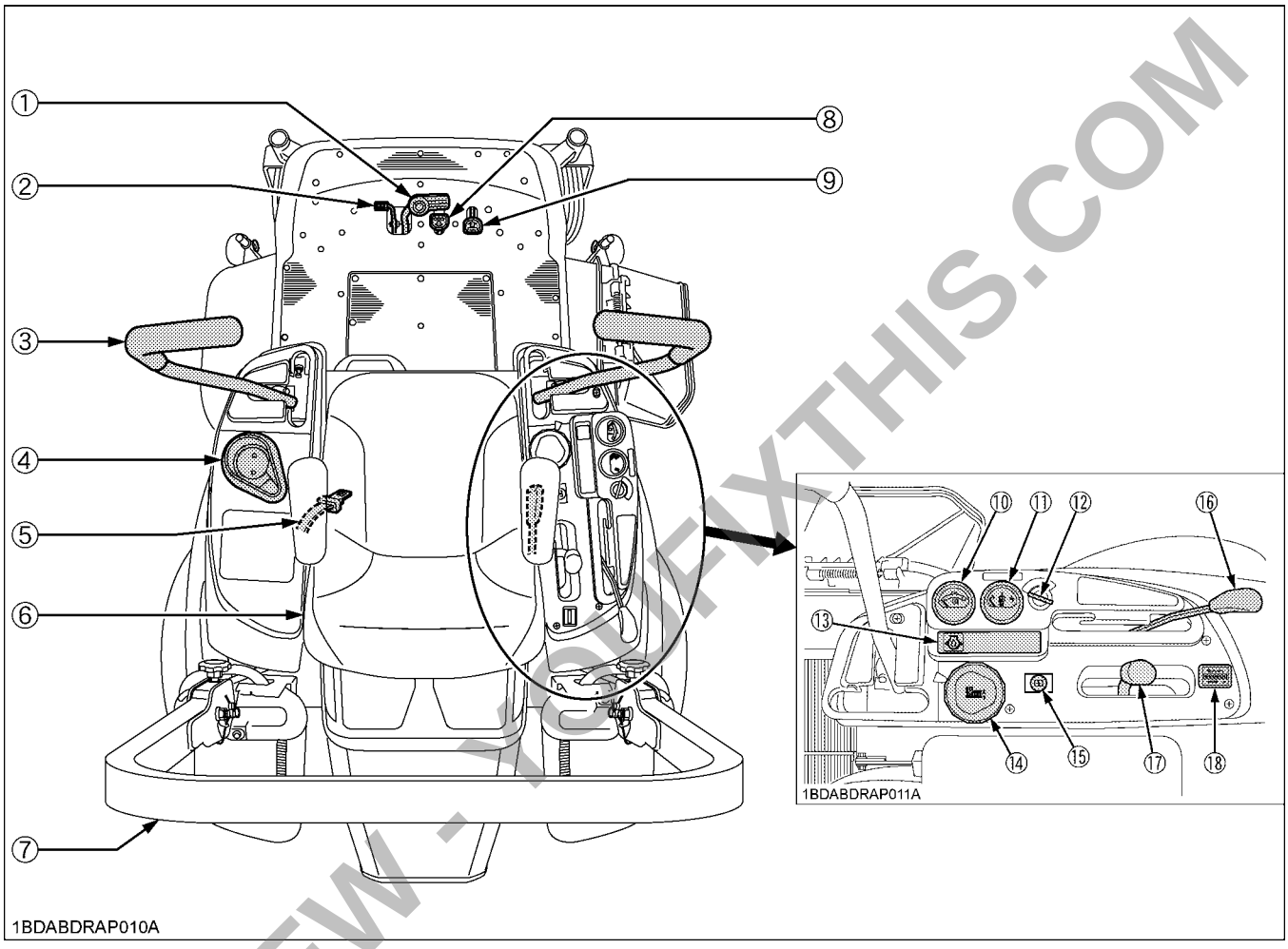
(1) Parking brake pedal *(A) "DEPRESS"*
(2) Parking brake lock pedal

To release the parking brake:
Depress the brake pedal and release slowly with your right foot without pressing the parking brake lock pedal.

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INSTRUMENT PANEL AND CONTROLS



ILLUSTRATED CONTENTS

(1)	Parking brake pedal	12, 25
(2)	Parking brake lock pedal	12, 25
(3)	Motion control lever	12, 25
(4)	Cup holder	-
(5)	Seat belt	24
(6)	Operator's seat	23
(7)	ROPS	21
(8)	Hydraulic lift control pedal (DOWN)	24
(9)	Hydraulic lift control pedal (UP)	24

ILLUSTRATED CONTENTS

(10)	Coolant temperature gauge	16
(11)	Fuel gauge (LH tank only)	15
(12)	Key switch	14
(13)	Easy checker (TM)	15
(14)	Cutting height control dial	30
(15)	Choke knob	14
(16)	PTO lever	33
(17)	Throttle lever	24
(18)	Hour meter	17

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MOWER MOUNTING

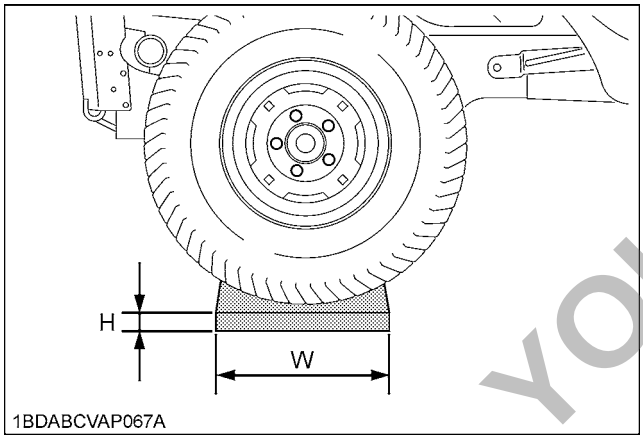
MOUNTING THE MOWER DECK

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.

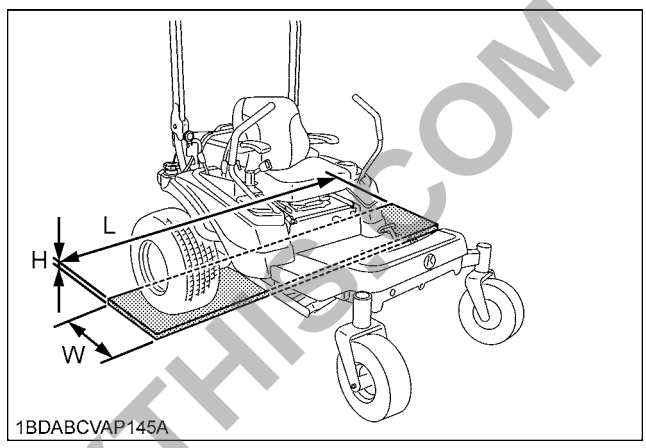


H: 40 mm (1.57 in.) *W: 300 mm (11.8 in.)*

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.



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

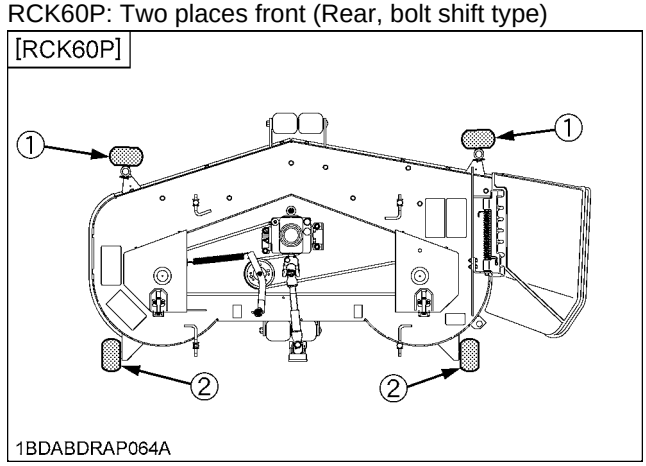
5. Place the mower deck at the right side of the machine.
6. Slide the mower deck under the machine, and make sure that the mower gear case is placed properly in the center of the machine.

NOTE :

- For easy installation set the anti scalp roller as shown below.

RCK60P: Two places front (Rear, bolt shift type)

[RCK60P]



(1) Anti scalp roller (pin shift type)
(2) Anti scalp roller (bolt shift type)

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TRANSPORTING

IMPORTANT :

1. Transport the machine on a trailer.
   - Turn the fuel valve to the "OFF" position.
   - Fasten the machine to the trailer properly and comply with the federal and local regulations.
   - To prevent the hood from opening by wind while in transit, it is necessary to either load the machine backward or use a suitable tie down for the hood.
2. Do not attempt to tow this machine, or damage to the transmission may result.
3. When transporting the machine over a long distance:
   - Turn the cutting height control dial to 5 in. position.
   - Lower the mower deck by depressing the hydraulic lift control pedal (DOWN).

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GENERAL TORQUE SPECIFICATION

American standard cap screws with UNC or UNF threads				Metric cap screws			
SAE grade No.		GR.5 	GR.8 	Property class		Class 8.8 	Class 10.9 
	(lbf-ft)	8 - 9.6	12 - 14.4		(lbf-ft)	7.2 - 8.3	
1/4	(N-m)	10.7 - 12.9	16.1 - 19.3	M6	(N-m)	9.81 - 11.3	
	(kgf-m)	1.11 - 1.33	1.66 - 1.99		(kgf-m)	1.0 - 1.15	
	(lbf-ft)	17 - 20.5	24 - 29		(lbf-ft)	17.4 - 20.2	21.7 - 25.3
5/16	(N-m)	23.1 - 27.8	32.5 - 39.3	M8	(N-m)	23.6 - 27.4	29.4 - 34.3
	(kgf-m)	2.35 - 2.84	3.31 - 4.01		(kgf-m)	2.4 - 2.8	3.0 - 3.5
	(lbf-ft)	35 - 42	45 - 54		(lbf-ft)	35.5 - 41.2	44.9 - 52.1
3/8	(N-m)	47.5 - 57.0	61.0 - 73.2	M10	(N-m)	48.1 - 55.8	60.8 - 70.5
	(kgf-m)	4.84 - 5.82	6.22 - 7.47		(kgf-m)	4.9 - 5.7	6.2 - 7.2
	(lbf-ft)	80 - 96	110 - 132		(lbf-ft)	57.2 - 66.5	76.0 - 86.8
1/2	(N-m)	108.5 - 130.2	149.2 - 179.0	M12	(N-m)	77.5 - 90.1	103 - 117
	(kgf-m)	11.07 - 13.29	15.22 - 18.27		(kgf-m)	7.9 - 9.2	10.5 - 12.0
	(lbf-ft)	110 - 132	160 - 192		(lbf-ft)	91.2 - 108	123 - 144
9/16	(N-m)	149.2 - 179.0	217.0 - 260.4	M14	(N-m)	124 - 127	167 - 196
	(kgf-m)	15.22 - 18.27	22.14 - 26.57		(kgf-m)	12.6 - 15.0	17.0 - 20.0
	(lbf-ft)	150 - 180	220 - 264		(lbf-ft)	145 - 166	192 - 224
5/8	(N-m)	203.4 - 244.1	298.3 - 358.0	M16	(N-m)	196 - 225	260 - 303
	(kgf-m)	20.75 - 24.91	30.44 - 36.53		(kgf-m)	20.0 - 23.0	26.5 - 31.0

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■Remove and Install Front Caster Wheels

◆ **Removing**

1. Park the machine on a firm and level surface.
2. Stop the engine and apply parking brake.
3. Lift the front of machine with a safe lifting device.
4. Remove the lock nut with nylon sleeve and the wheel bolt.
5. Remove the wheel and dust cover from assembly yoke.

◆ **Installing**

1. Install the replacement wheel and dust cover.
2. Install the wheel bolt and the lock nut with nylon sleeve.
3. Tighten the nut.
4. After installing, grease to the nipples.

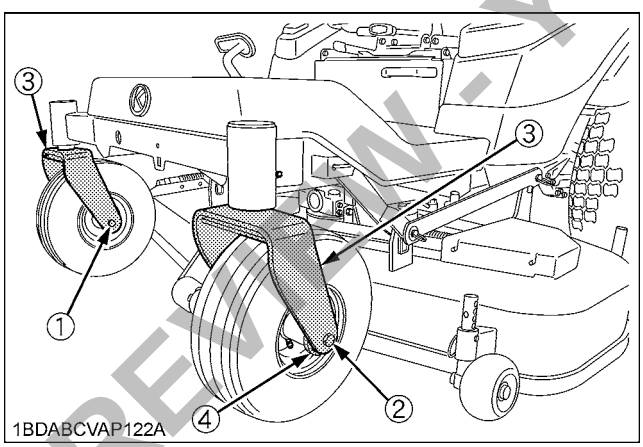
IMPORTANT :

- Insert the wheel bolt from the outside of the yoke.
- Tighten the nut gradually until wheel bearing play is eliminated and wheel turns freely by hand.

Reference

Tightening torque	20 to 25 N-m (14.8 to 18.4 lbf-ft) (2 to 2.5 kgf-m)

5. Lower machine.



(1) Lock nut
(2) Wheel bolt
(3) Yoke
(4) Dust cover

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