SAFE OPERATION

Careful operation is your best insurance against an accident.
The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property. Read and understand this manual carefully before operating the machine. All operators, no matter how much experience they may have had, must read and understand 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.
If the operator(s) or mechanic(s) cannot understand the contents, it is the owner's responsibility to explain this material to them. This mowing machine is capable of amputating hands, feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

BEFORE OPERATING THE MACHINE

Know your equipment and its limitations. Read all instructions in this manual before attempting to start and operate the machine.

1. General

- 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 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 operator's manual before operating the machine. Practice operating the machine at low engine speed in an unobstructed area without engaging the mower.
- Pay special attention to the safety labels on the machine itself.
- Do not operate the machine or any attachments while under the influence of alcohol, medication, controlled substances or when fatigued.
- Do not wear loose, torn, or bulky clothing around the machine. The clothing may catch on moving parts or controls, leading to the risk of an accident. Wear and use any additional safety items such as a hard hat, safety boots or shoes, eye and hearing protection, gloves and so on, as appropriate or required.
- Do not wear radio or music headphones while operating the machine.
- Do not operate the machine or any attachments while using or texting with a cellphone or any other electronic device.
  Safe operation requires your full attention.
- Carefully check the vicinity before operating machine or any implement attached to it. Clear the work area of objects (such as wires and rocks,) that might be picked up and thrown. Check for overhead clearance which may interfere with a grass catcher.
- Check parking brake and other mechanical parts for correct adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly.
  (See PERIODIC SERVICE on page 52 and ADJUSTMENT on page 87.)
- Keep all shields and guards in place. Replace any that are damaged or missing. Do not operate unless they are functioning properly.
- Before allowing other people to use your machine, explain how to operate and have them read this manual before operation.
- Do not allow any bystanders around or near machine during operation.
- 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.
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern and prudence of personnel involved in the operation, transport, maintenance of the equipment.
- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Keep the machine and attachments in good operating condition and keep safety devices in place and in proper working condition. Do not operate unless they are functioning properly.
- Do not modify the machine. Unauthorized modification may affect the function of the machine, which may result in personal injury.
- Use only implements approved by KUBOTA. Use proper ballast on the front or rear of the machine to reduce the risk of upsets. Follow the safe operating procedures specified in the manuals of the equipment.
- Keep your machine clean. Accumulations of dirt, grease, and trash can contribute to fires and lead to personal injury.
- The exhaust gas from the muffler is very hot. To prevent fire, do not expose dry grass, mowed

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SPECIFICATIONS

SPECIFICATION TABLE

Model				ZD1211-AU	ZD1221R-AU	ZD1221L-AU	ZD1221RL-AU
Engine	Model			D1105	D1305		
	Power		kW (HP)	18.5 (24.8) *1*2*3	21.7 (29.1) *1*3		
	Type			Liquid-cooled			
	Number of cylinders			3			
	Bore and stroke		mm (in.)	78 × 78.4 (3.07 × 3.09)	78 × 88.0 (3.07 × 3.46)		
	Total displacement		cm^3 (cu. in.)	1123 (68.5)	1261 (77.0)		
	Rated revolution		rpm	3000			
	Low idling revolution		rpm	1400 to 1500			
	Fuel			Diesel fuel No.1 (below -10 ℃ (14 ℉)) Diesel fuel No.2 (above -10 ℃ (14 ℉))			
	Starter			Electric starter with battery, glow plug, 12 V, 1.2 kW			
	Lubrication			Forced lubrication by gear pump			
	Cooling			Liquid with pressurized radiator			
	Battery			SMF51R (12 V, RC:80 min, CCA:430 A)			
Capacities	Fuel tank		L (U.S.gals.)	49 (12.9)			
	Engine crankcase (with filter)		L (U.S.qts.)	3.9 (4.1)	5.7 (6.0)		
	Engine coolant		L (U.S.qts.)	3.5 (3.7)			
	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) *4			
Dimensions	Overall length		mm (in.)	2260 (89.0)		2380 (93.7)	
	Overall width without mower deck		mm (in.)	1510 (59.4)		1540 (60.6)	
	Overall height	With ROPS upright	mm (in.)	2000 (78.7)			
		With ROPS folded	mm (in.)	1640 (64.6)			
	Wheelbase		mm (in.)	1440 (56.7)		1560 (61.4)	
	Min. ground clearance		mm (in.)	130 (5.12) with 60"		130 (5.12) with 72"	
	Tread	Front	mm (in.)	1064 (41.9)		1250 (49.2)	
		Rear	mm (in.)	1210 (47.6)			
Weight (without fuel, with mower deck)			kg (lbs.)	765 (1687) with 60"	780 (1720) with 60"	800 (1764) with 72"	810 (1786) with 72"
Traveling system	Tires	Front		15 × 6.5 - 8 Smooth semi-pneumatic low profile tire			
		Rear		26 × 12.0 - 16 4PR turf low profile tire			
	Traveling speeds	Forward	mph (km/h)	0 to 10.6 (0 to 17.0) *3			
		Reverse	mph (km/h)	0 to 5.3 (0 to 8.5) *3			
	Steering			2 - hand levers			

(Continued)

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SERVICING OF MACHINE

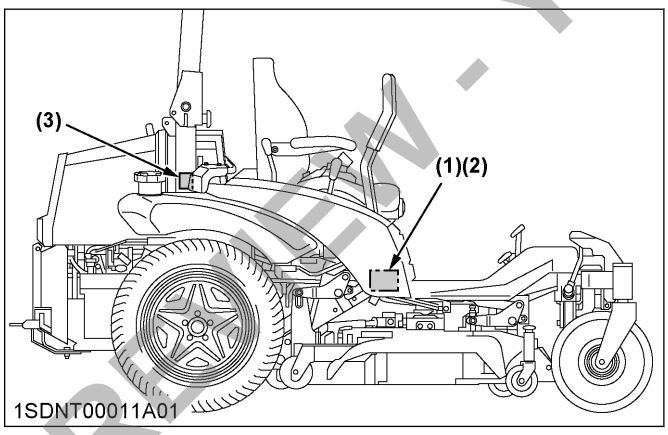
After reading this manual thoroughly, you will find that you can do some of the regular maintenance yourself. Your dealer has knowledge of your new machine and has the desire to help you get the best performance and the most value from it.
However, when in need of parts or major service, be sure to consult your local KUBOTA Dealer. When in need of parts, be prepared to give your dealer the product identification number (PIN), and the ROPS, engine and mower serial numbers.
Locate the PIN and serial numbers now, and record them in the space provided.

Date of purchase	
Name of dealer	

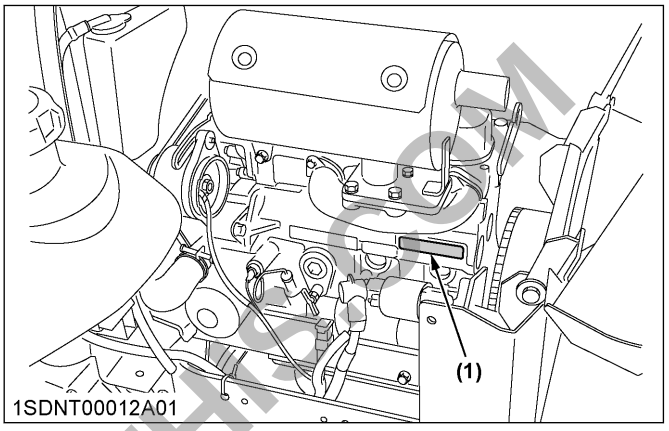
To be filled in by purchaser

	Type	PIN/Serial number
Machine		
ROPS		
Engine		
Mower		

To be filled in by purchaser

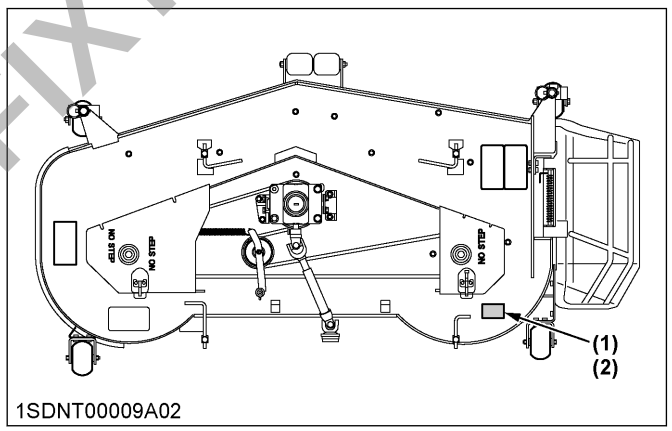


(1) Machine identification plate
(2) Product identification number
(3) ROPS serial number



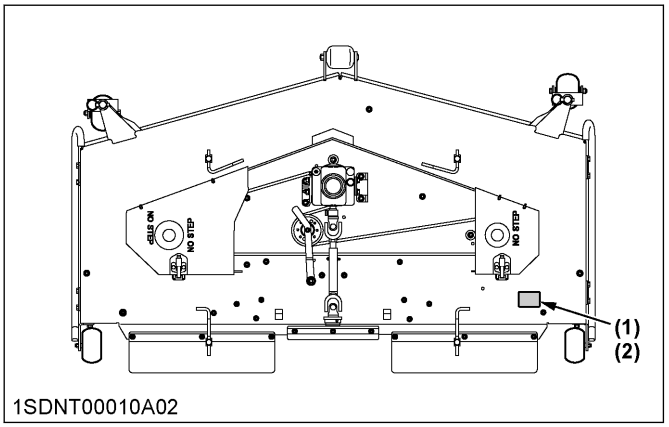
(1) Engine serial number

RCK60P, RCK72P



(1) Mower identification plate
(2) Mower serial number

RCK60R, RCK72R



(1) Mower identification plate
(2) Mower serial number

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LUBRICANTS, FUEL AND COOLANT

<table>
<tr><th rowspan="2">Place</th><th colspan="4">Capacities</th><th rowspan="2" colspan="2">Lubricants</th></tr>
<tr><th>ZD1211-AU</th><th>ZD1221R-AU</th><th>ZD1221L-AU</th><th>ZD1221RL-AU</th></tr>
<tr><td>Fuel</td><td colspan="4">49 L (12.9 U.S.gals.)</td><td colspan="2">• No.2-D diesel fuel
• No.1-D diesel fuel if temperature is below -10 ℃ (14 ℉)</td></tr>
<tr><td>Coolant</td><td colspan="4">3.5 L (3.70 U.S.qts.)</td><td colspan="2" rowspan="2">Fresh clean water with anti-freeze</td></tr>
<tr><td>Recovery tank</td><td colspan="4">0.25 L (0.26 U.S.qts.)</td></tr>
<tr><td>Engine crankcase</td><td>3.9 L
(4.1 U.S.qts.) *1</td><td colspan="3">5.7 L (6.0 U.S.qts.) *1</td><td colspan="2">• Engine oil: API service Classification CF, CF-4, CG-4, CH-4 or CI-4
Above 25 ℃ (77 ℉)...SAE30, SAE10W-30 or 15W-40
0 to 25 ℃ (32 to 77 ℉).....SAE20, SAE10W-30 or 15W-40
Below 0 ℃ (32 ℉).....SAE10W, SAE10W-30 or 15W-40</td></tr>
<tr><td>Transmission case with filter and hose
Rear axle gear case (RH and LH)</td><td colspan="4">12.1 L (12.8 U.S.qts.)</td><td colspan="2">• KUBOTA SUPER UDT-2 fluid *2</td></tr>
<tr><td rowspan="2">Mower gear box</td><td colspan="4">0.4 L (0.42 U.S.qts.) *3</td><td colspan="2">Gasoline engine oil: API Service Category: SH or higher, SAE 10W-30</td></tr>
<tr><td colspan="2">—</td><td colspan="2">0.4 L (0.42 U.S.qts.) *3</td><td colspan="2">Gear oil: API Service Category: more than GL-3, SAE 90</td></tr>
<tr><td>Greasing</td><td colspan="4">No. of greasing points</td><td>Capacity</td><td>Type of grease</td></tr>
<tr><td>King pin</td><td colspan="4">2</td><td rowspan="11">Until grease overflows</td><td rowspan="11">• Multipurpose EP2 Grease (NLGI Grade No.2)</td></tr>
<tr><td>Center pin</td><td colspan="4">1</td></tr>
<tr><td>Front wheel</td><td colspan="4">2</td></tr>
<tr><td>Rear mower link bushing</td><td colspan="4">4</td></tr>
<tr><td>Front mower link bushing</td><td colspan="4">2</td></tr>
<tr><td>Tilt lever</td><td colspan="4">1</td></tr>
<tr><td>Universal joint</td><td colspan="4">3</td></tr>
<tr><td>Seat adjuster</td><td colspan="4">2</td></tr>
<tr><td>Parking brake lock pedal</td><td colspan="4">1</td></tr>
<tr><td>Cable (throttle)</td><td colspan="4">2</td><td>Moderate amount</td><td>• Oil</td></tr>
<tr><td></td><td colspan="4">MOWER</td><td colspan="2"></td></tr>
<tr><td>Universal joint</td><td colspan="4">3</td><td rowspan="7">Until grease overflows</td><td rowspan="7">• Multipurpose EP2 Grease (NLGI Grade No.2)</td></tr>
<tr><td>3 spindle shafts</td><td colspan="4">3</td></tr>
<tr><td>Belt tension pulley</td><td colspan="4">1</td></tr>
<tr><td>Belt tension pivot</td><td colspan="4">1</td></tr>
<tr><td>Front anti scalp roller pivot boss</td><td colspan="4">2</td></tr>
<tr><td>Front anti scalp roller</td><td colspan="4">2</td></tr>
</table>

*1 Oil amount when the oil level is at the upper level of the oil level gauge.

*2 The product name of KUBOTA genuine UDT fluid may be different from that in the operator's manual depending on countries or territories. Consult your local KUBOTA Dealer for further detail.

*3 Check a label on the mower gear box to know which oil you must use in it. (See Checking gear box oil level on page 67 or Changing gear box oil on page 74.)

IMPORTANT :

- **To prevent serious damage to gears, bearings and oil seals, do not mix different kinds of oil.**

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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 start system	Check	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	66		
2	OPC system	Check	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	66		
3	Mower gear box oil	Check	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	67		
		Change			●			●			●			●	every 150Hr	74		
4	Except mower and mower link bushings	Grease	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	68		
5	Throttle cable	Oil	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	69		
6	Mower link bushings, pivot	Grease		●		●		●		●		●		●	every 100Hr	72		
7	Air cleaner primary element	Clean		●		●		●		●		●		●	every 100Hr	69	*1	@
		Replace													every 1000Hr or 1 year	79	*2	
	Secondary element	Replace													every 1000Hr or 1 year	79	*2	
8	Fuel filter element	Check		●		●		●		●		●		●	every 100Hr	70		@
		Replace								●					every 400Hr	79	*3	
9	Fan belt	Adjust		●		●		●		●		●		●	every 100Hr	71		
10	Parking brake	Adjust		●		●		●		●		●		●	every 100Hr	71	*4	
11	Battery condition	Check		●		●		●		●		●		●	every 100Hr	73	*5	
12	Engine oil	Change	◎			●				●				●	every 200Hr	76	*6	
13	Engine oil filter	Replace	◎			●				●				●	every 200Hr	76	*6	
14	Transmission oil filter (HST)	Replace	◎			●				●				●	every 200Hr	76	*6	
15	Front axle pivot	Adjust		◎		●				●				●	every 200Hr	77	*7	
16	Transmission fluid and rear axle gear case (RH and LH) fluid	Change								◎					every 400Hr	77		
17	Hydraulic oil filter	Replace								●					every 400Hr	78		
18	Engine valve clearance	Adjust													every 800Hr	79	*3	
19	Fuel injection nozzle injection pressure	Check													every 1500Hr	80	*3	@
20	Radiator	Clean													every 2000Hr or 2 years	80	*8	
21	Coolant	Change													every 2000Hr or 2 years	80	*8	
22	Injection pump	Check													every 3000Hr	82	*3	@

(Continued)

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

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

Symptom (if)		Cause	Remedy
The engine is difficult to start or will not start.		• No fuel flow.	• Check the fuel tank and the fuel filter. Replace filter if necessary. • Check the fuel valve position.
		• Air or water is in the fuel system.	• Check to see if the fuel line coupler bolt and nut are tight. • Bleed the fuel system. (See SERVICE AS REQUIRED on page 84.)
		• In winter, oil viscosity increases, and engine revolution is slow.	• Use oils of different viscosities, depending on ambient temperatures.
		• The 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.
Insufficient engine power.		• Insufficient or dirty fuel.	• Check the fuel valve position. • Check the fuel system.
		• Air cleaner clogged.	• Clean the element.
The engine stops suddenly.		• Insufficient fuel.	• Check the fuel valve position. • Refuel. • Bleed the fuel system if necessary.
Exhaust fumes are colored.	Black	• Fuel quality is poor. • Too much oil. • Engine is overloaded.	• Change the fuel and fuel filter. • Check the proper amount of oil. • Reduce engine load.
	Blue white	• The inside of exhaust muffler is damp from fuel. • Injection nozzle trouble. • Fuel quality is poor.	• Heat the muffler by applying load to the engine. • Check the injection nozzle. • Change the fuel and fuel filter.
Engine overheats.		• Engine overloaded.	• Lower speed or reduce load.
		• Low coolant level.	• Fill cooling system to the correct level; check radiator and hoses for loose connections or leaks.
		• Loose or damaged fan belt.	• Adjust or replace fan belt.
		• Dirty radiator core or grille screens.	• Remove all trash.
		• Coolant flow route corroded.	• Flush cooling system.
Engine does not stop when key switch is turned *"OFF"*.		• Fuse blown (20 A)	• Replace the fuse.

If you have any questions, contact your local KUBOTA dealer.

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MOWER MOUNTING

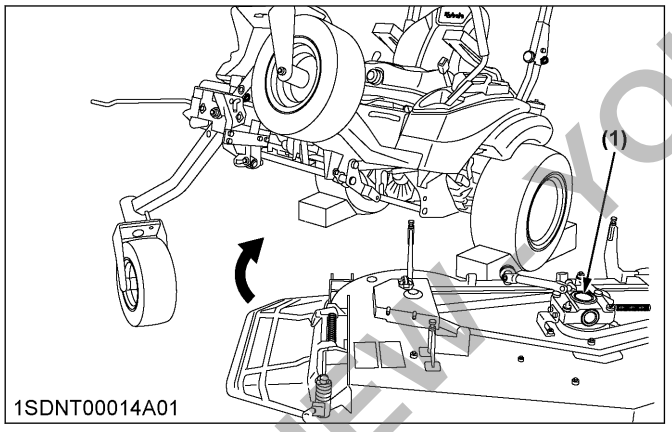
MOUNTING THE MOWER DECK

⚠ WARNING

To avoid serious injury or death:

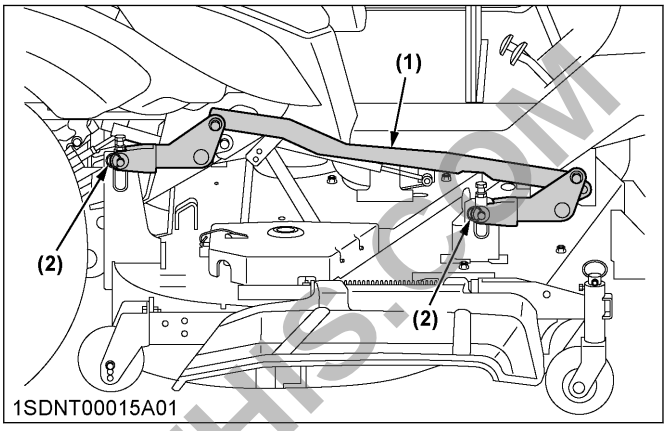
- **Park the machine on a firm and level surface.**
- **Apply the parking brake.**
- **Chock the rear tires.**
- **Stop the engine and remove the key.**

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. Tilt up the machine with the maintenance lift system. (See TILTING UP THE MACHINE on page 53.)
4. Place the mower deck at the left side of the machine.



(1) Gear box

5. Slide the mower deck under the machine, and make sure that the mower gear box is placed properly in the center of the machine, lower the axle from the *"TILT-UP"* position to the *"NORMAL"* position.
6. Place 50 mm (2 in.) wood blocks under each side of the mower deck.
7. Depress the hydraulic lift control pedal (DOWN) 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

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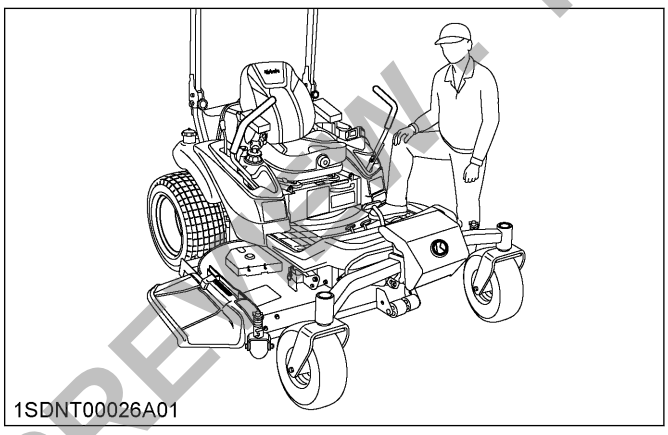
OPERATING THE ENGINE

⚠ WARNING
To avoid serious injury or death:
- **Read and understand the safe operation section.**
- **Read and understand the safety labels located on the machine.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine indoors without proper ventilation.**
- **Never start the engine while standing on the ground. Start the engine only from the operator's seat.**

Details regarding safe operation can be found in a different section.
(See SAFE OPERATION on page 5.)

GETTING ON AND OFF THE MACHINE SAFELY

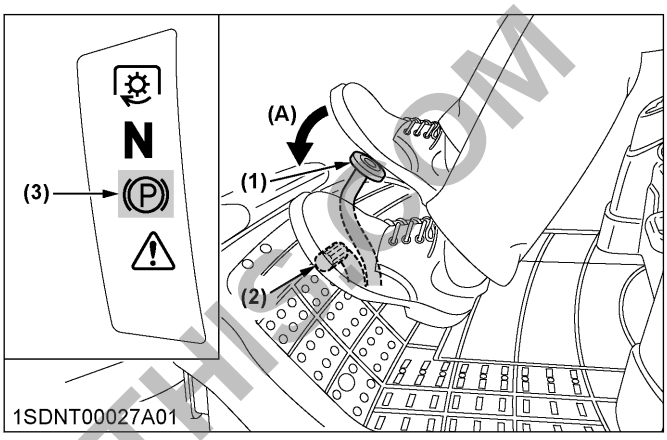
Do not step on either side of the mower deck when you get on and get off the machine. When you get on and off the machine use LH side and step over the mower deck.



STARTING THE ENGINE

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

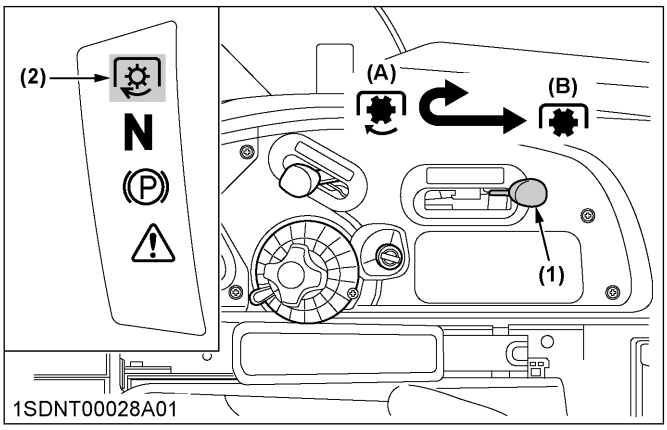
   To apply the parking brake:
   a. Depress the parking brake pedal firmly with your right foot and the parking brake lock pedal simultaneously with your left foot.
   b. Then release the parking brake pedal while holding the parking brake lock pedal down.
   c. Parking brake warning indicator will come on.



(1) Parking brake pedal
(2) Parking brake lock pedal
(3) Parking brake warning indicator
(A) "DEPRESS"

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

3. Place the PTO lever in the *"DISENGAGED"* (OFF) position.
   PTO clutch indicator will come off.



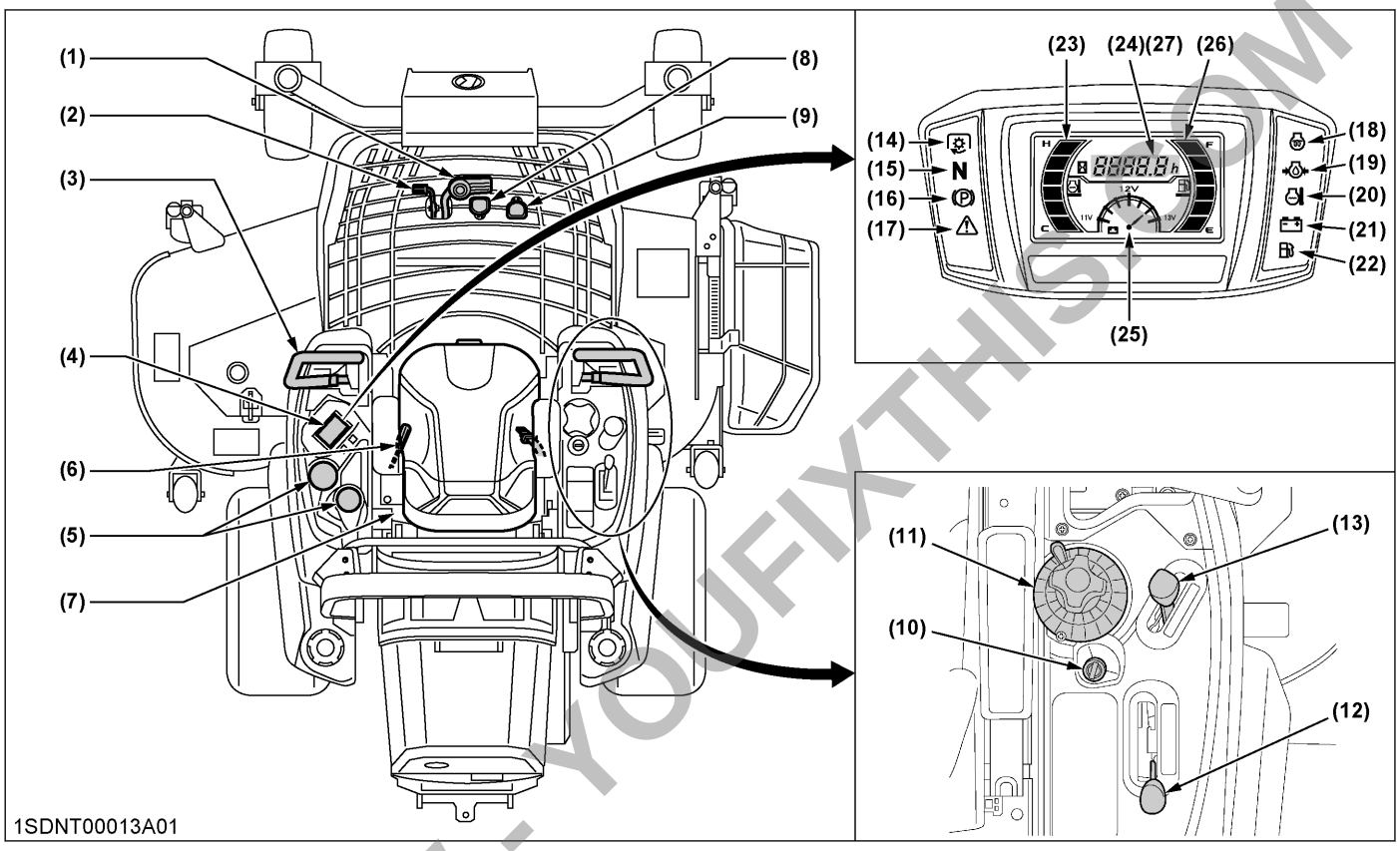
(1) PTO lever
(2) PTO clutch indicator
(A) "ENGAGED" (ON)
(B) "DISENGAGED" (OFF)

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INSTRUMENT PANEL AND CONTROLS

INSTRUMENT PANEL, SWITCHES AND HAND CONTROLS



Illustrated contents

(1) Parking brake pedal…27, 38
(2) Parking brake lock pedal…27, 38
(3) Motion control lever…27, 39
(4) LCD monitor…30
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(17) Master system warning indicator…29
(18) Glow plug indicator…29
(19) Engine oil pressure warning indicator…29
(20) Engine overheat warning indicator…29
(21) Electrical charge warning indicator…29
(22) Fuel level warning lamp…29, 32
(23) Coolant temperature gauge…31
(24) Hour meter…31
(25) Battery voltage meter…31
(26) Fuel gauge…30
(27) Service code display…31

NOTE :

- **Items (17) to (22) correspond to the Easy Checker™.**

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EVERY 50 HOURS

1. Checking the engine start system

The engine start system in your machine is designed to protect you while operating. Check the engine start system periodically (daily is best) to test the function of the engine start system before operation.

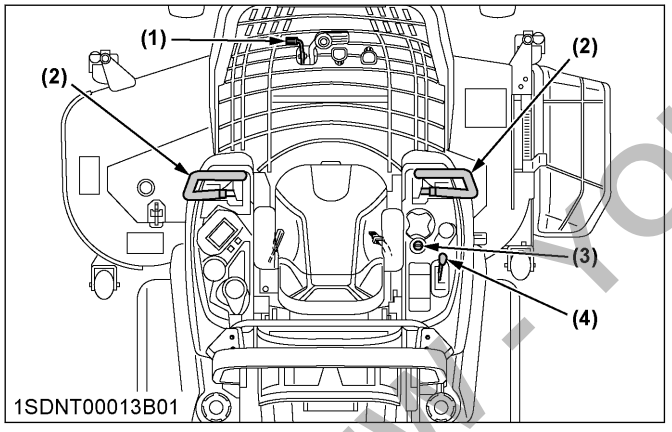
⚠ WARNING

To avoid serious injury or death:

- **Park the machine on a firm and level surface.**
- **Do not allow anyone near the machine while testing.**
- **If the machine does not pass one of the following tests, do not operate the machine. See your local KUBOTA Dealer.**
- **Sit on the operator's seat for all tests except for test 1.**

IMPORTANT :

- **Test the following before operating the machine:**



(1) Parking brake lock pedal
(2) Motion control lever
(3) Key switch
(4) PTO lever

Test 1 (operator not on the seat)

1. Securely set the parking brake.
2. Set the PTO lever to the *"DISENGAGE"* (OFF) position.
3. Set the motion control levers to the *"NEUTRAL LOCK"* position.
4. Turn the key switch to the *"START"* position.
5. The engine must not crank.

Test 2 (operator on the seat)

1. Do not set the parking brake (release it from test 1).
2. Set the PTO lever to the *"DISENGAGE"* (OFF) position.
3. Set the motion control levers to the *"NEUTRAL LOCK"* position.
4. Turn the key switch to the *"START"* position.
5. The engine must not crank.

Test 3 (operator on the seat)

1. Securely set the parking brake.
2. Shift the PTO lever to the *"DISENGAGE"* (OFF) position.
3. Grasp the motion control levers and move them inward from the *"NEUTRAL LOCK"* position to the *"NEUTRAL"* position and then release the levers.
4. Turn the key switch to the *"START"* position.
5. The engine must not crank.

Test 4 (operator on the seat)

1. Securely set the parking brake.
2. Shift the PTO lever to the *"ENGAGE"* (ON) position.
3. Set the motion control levers to the *"NEUTRAL LOCK"* position.
4. Turn the key switch to the *"START"* position.
5. The engine must not crank.

NOTE :

- **If the engine cranks in tests 1 through 4, consult your local KUBOTA Dealer to have the unit checked before operation.**

Test 5 (operator on the seat)

1. Start the engine.
2. Keep the parking brake securely set.
3. Shift the PTO lever to the *"DISENGAGE"* (OFF) position.
4. Grasp the motion control levers and move them inward from the *"NEUTRAL LOCK"* position to the *"NEUTRAL"* position and then release the levers.
5. The engine must shut off after a short time delay.

IMPORTANT :

- **For this test only, the engine will shut off in a few seconds.**

NOTE :

- **If the engine keeps running in test 5, consult your local KUBOTA Dealer to have the unit checked before operation.**

2. Checking the OPC system

The operator presence control (OPC) system in your machine is designed to protect you while operating. Check the OPC system periodically (daily is best) to test function of the OPC system before operation.

⚠ WARNING

To avoid serious injury or death:

- **Park the machine on a firm and level surface.**
- **Do not allow anyone near the machine while testing.**
- **If the machine does not pass one of the following tests, do not operate the machine. See your local KUBOTA Dealer.**

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