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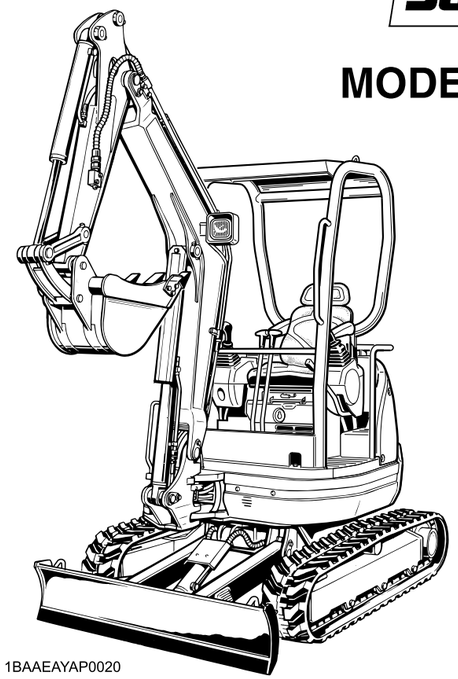
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OPERATOR'S MANUAL

KUBOTA EXCAVATOR

Super Series

MODEL U25



1BAAEAYAP0020

READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

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Kubota

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SAFE OPERATION

The best insurance against accidents is to abide by the safety regulations.

Read and understand this section carefully, before operating the excavator.

Every user, however experienced, should carefully read and understand this section and those of the attachments and accessories before taking the excavator into operation. The owner is obliged to inform the operators of these instruction in detail.

Keep this manual in the storage place. (See "Operator's Manual Storage" in "CHECKS BEFORE START" section.)

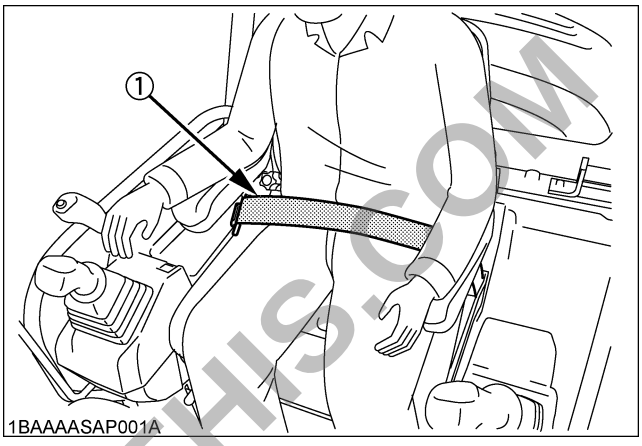
1. BEFORE OPERATION

1. Make yourself acquainted with the excavator and be aware of its limits. Read the operating instructions carefully before starting the excavator.
2. Obey the danger, warning and caution labels on the machine.
3. For your safety, a ROPS/OPG (Top Guard Level I) with a seat belt is installed by KUBOTA.
   - ROPS: Roll-Over Protective Structure
   - OPG (Top Guard Level I): Operator Protective Guards of Top Guard Level I

     OPG (Top Guard Level I) in accordance with ISO10262 is equivalent in definition to FOPS (Falling Object Protective Structure).

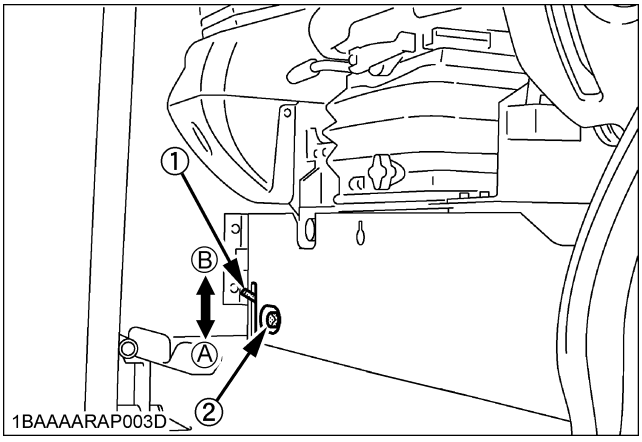
     Always use the seat belt when the machine is equipped with a ROPS/OPG (Top Guard Level I).

     Do not modify structural members of ROPS by welding, drilling, bending, grinding or cutting, as this may weaken the structure. If any component is damaged, replace it. Do not attempt repairs. If ROPS is loosened or removed for any reason, make sure all parts are reinstalled correctly. Tighten mounting bolts to proper torque.
4. The seat belt must be inspected regularly and replaced if damaged.



(1) Seat belt

5. Always sit in the operator's seat when starting engine or operating levers or controls.
6. Study control lever pattern A and pattern B. Then choose the one which is most familiar. Familiarize yourself with the pattern selected by operation slowly at low engine speed.
   - Engage the lever lock to prevent accidental pattern change.



(1) Pattern selector lever
(Two Pattern Selection System:TPSS)
(2) Lever lock knob

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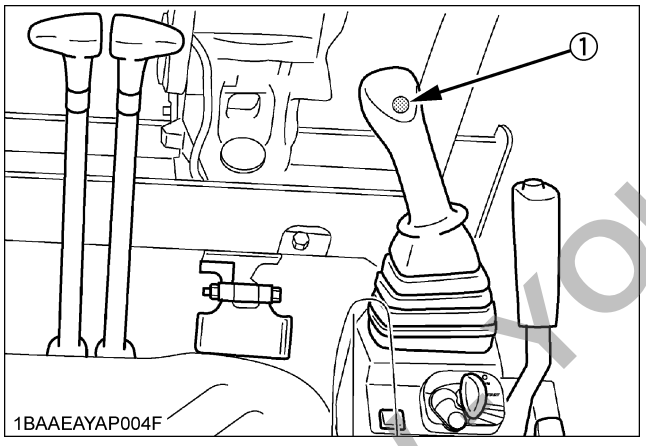
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OPERATION OF THE ENGINE

CAUTION

To avoid personal injury:

- **Read "SAFE OPERATION" at the beginning of this operator's manual.**
- **Obey the danger, warning and caution labels on the excavator.**
- **To avoid the danger of exhaust fume poisoning, do not operate the machine in a closed building without proper ventilation.**
- **Always start the engine from the operator's seat. Do not start the engine while standing next to the excavator. Before starting the engine, sound the horn to get the attention of persons standing nearby.**



(1) Horn switch

IMPORTANT :

- Do not use starting fluid or ether.
- In order not to overload the battery and starter, avoid engaging the starter more than 10 sec.
- When engine does not start in 10 sec., please wait 20 sec. or more, before attempting to restart.

STARTING THE ENGINE

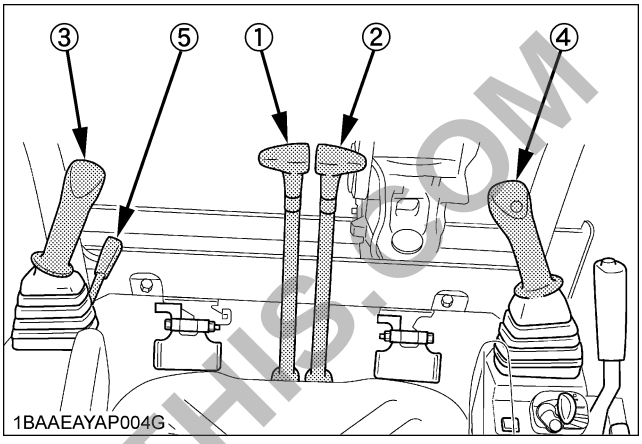
CAUTION

To avoid personal injury:

- **The operator should not depend solely on the warning lamps, but should always conduct the routine checks (see "MAINTENANCE").**

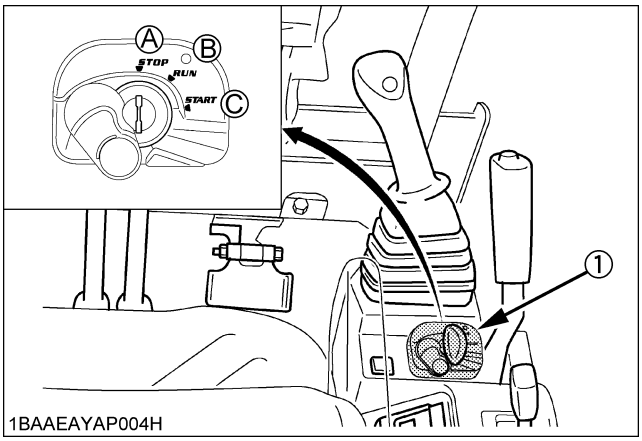
Start the engine in the following manner:

1. Before starting the engine, make sure that all control levers are in the neutral positions.



(1) Drive lever (left)
(2) Drive lever (right)
(3) Attachment control lever (left)
(4) Attachment control lever (right)
(5) Lock lever

2. Pull the lock levers all the way back. (lock position)
   - Put the throttle lever towards 🐢 .
3. Insert the key into the starter switch and turn it to the position "Run". The glow lamp indicator will light up while the engine is preheated and will go out automatically after preheating is finished.



(1) Starter switch
(A) "STOP"
(B) "RUN"
(C) "START"

4. Turn the key to the position "START" and release after the engine has started.
5. Check if oil lamp and charge lamp have gone out. Should a warning lamp still be lit up, stop the engine then remove the key and check for the cause.

NOTE :

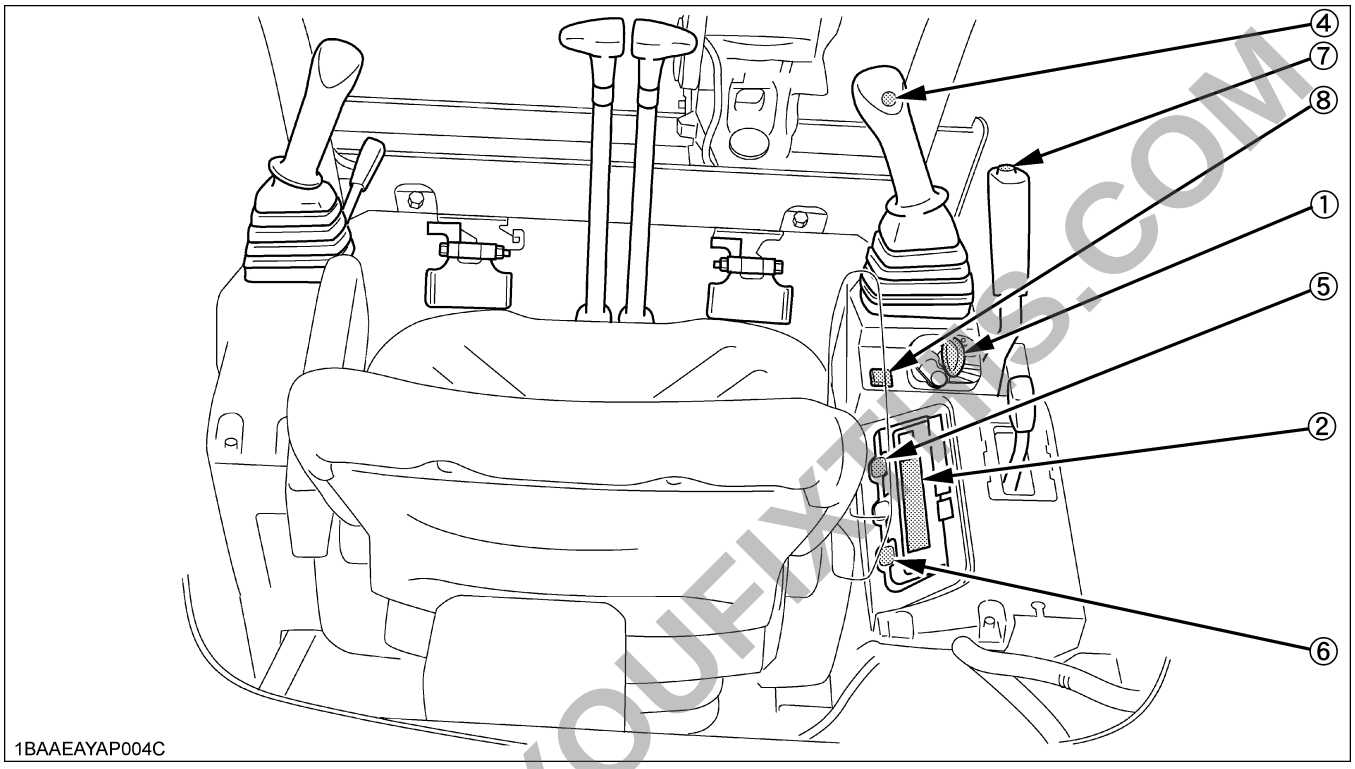
- When the lock levers are in "UNLOCK" position, the engine does not start.

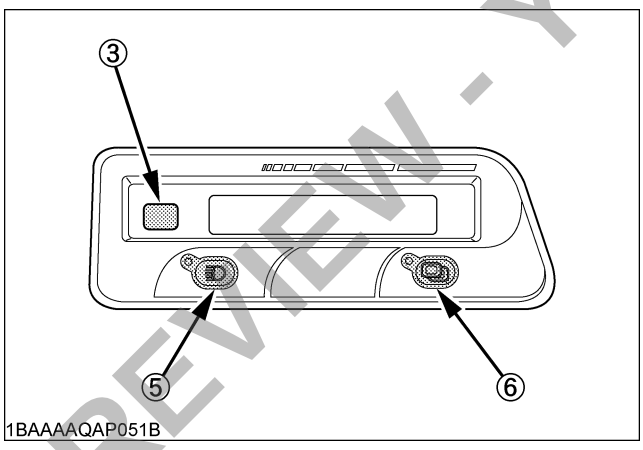
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INSTRUMENT PANEL AND CONTROL ELEMENTS

■ Instrument Panel, Switch





DEPICTED CONTENTS
(1) Starter switch
(2) LCD display
(3) Warning lamp
(4) Horn switch
(5) Working light switch
(6) Display selector switch
(7) Travel speed switch
(8) Speed indicator light

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MAINTENANCE

MAINTENANCE INTERVALS

No.	Check points		Intervals	Hour meter indicator									Consequently	Ref. page		
				50	100	150	200	250	300	350	400	450				
1	Coolant		check	Daily check										35		
			change										every 2 years	48		
2	Fuel		check	Daily check										33		
3	Engine oil		check	Daily check										34		
			change	◉					○				every 250 hrs	42		
4	Hydraulic oil		check	Daily check										34		
			change										every 1000 hrs	46	*1	
5	Lubrication points		-	Daily check										35		
6	Radiator and oil cooler		check	Daily check										36		
7	Engine and electrical wiring		check	Daily check										36		
8	Fuel tank, Water separator		drain	○	○	○	○	○	○	○	○	○	every 50 hrs	37,37		
9	Battery condition		check	○	○	○	○	○	○	○	○	○	every 50 hrs	38		
10	Greasing swing bearing teeth		-	○	○	○	○	○	○	○	○	○	every 50 hrs	39		
11	Fan belt tension		check	Daily check										36		
			adjust				○				○		every 200 hrs	40		
12	Radiator hoses and clamps		check				○				○		every 200 hrs	40		
			replace										every 2 years	48		
13	Air filter element	Outer element	clean				○				○		every 200 hrs	41	*2	@
			replace										every 1000 hrs	47	*2	
		Inner element	replace										every 1000 hrs	47	*2	
14	Greasing swing ball bearings		-				○				○		every 200 hrs	41		
15	Fuel filter cartridge		replace										every 500 hrs	44		@
16	Engine oil filter		replace	◉					○				every 250 hrs	43		
17	Drive unit oil		change		◉								every 500 hrs	44		
18	Hydraulic return filter element		replace					◉					every 500 hrs	45		
19	Hydraulic suction filter element		replace										every 1000 hrs	46		
20	Filter in the pilot hydraulic system		replace										every 1000 hrs	45		
21	Fuel injection nozzle injection pressure		check										every 1500 hrs	47	*4	@
22	Front idler and track roller oil		change										every 2000 hrs	47		
23	Alternator and starter motor		check										every 2000 hrs	47		
24	Injection pump		check										every 3000 hrs	47	*4	@
25	Radiator system		rinse										every 2 years	48		
26	Fuel line and Intake air line		check				○				○		every 200 hrs	42		@
			replace										every 2 years	49	*3	
27	Greasing pilot valve linkage		-					○					every 250 hrs	43		
28	Pilot circuit filter		clean										every 1000 hrs	45		

∗ 500 thru 1000 continued to the following table.

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TROUBLESHOOTING

If the excavator dose not show the desired performance, or when trouble arises, refer to the table below and undertake appropriate measures.

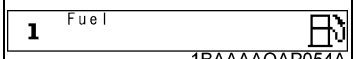
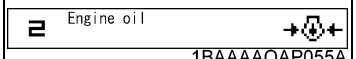
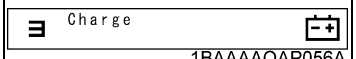
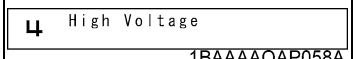
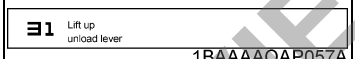
Trouble		Cause	Countermeasure
Engine	Starting difficulties	Fuel is too viscous	*Check fuel tank and filter *Remove impurities and water *If necessary, replace filter
		Air or water in the fuel system	*Remove water from the fuel tank *Check fuel pipe joint bolts and nuts for looseness *Purging of the fuel system (for fuel filter and injection pump, see "PURGING OF THE FUEL SYSTEM" in "OTHER ADJUSTMENTS AND REPLACEMENTS".)
		Oil viscosity is too high the engine runs sluggishly in winter	*Pour hot water over the radiator *Use oils of different viscosities depending on the ambient temperature. (Use SAE10W, SAE10W-30 or SAE10W-40)
		Battery is almost dead; insufficient compression	*Recharge battery
	Insufficient engine power	Low fuel level	*Check fuel and add if necessary
		Clogged air cleaner	*Clean the air filter element
	Engine suddenly stops	Low fuel level	*Check fuel and add if necessary *Purge the fuel system
	Abnormal exhaust gas color	Poor fuel	*Use high quality fuel
		Too much engine oil	*Drain engine oil to prescribed oil level
	Water temperature too high (Overheating)	Worn or torn fan belt	*Adjust or replace
		Coolant level too low	*Fill to prescribed level
		Radiator grill or fins are clogged	*Clean
		Coolant is contaminated with rust from the cylinder head or crank case	*Replace coolant fluid and add anti-rust
		Defective radiator cap (Evaporation)	*Replace
		Corroded coolant pipes	*Clean
		Continuous operation under full load	*Reduce load
		Engine oil level too low	*Fill to prescribed level
		Use of poor fuel	*Use prescribed fuel
Hydraulic System	Boom, arm, bucket, drive, swing and dozer power is too low	Hydraulic oil level too low	*Add oil
		Leakages of hoses and / or joints	*Replace hose or joint
	Swing motor and front attachment does not work	Lock lever in "LOCK" position	*Bring lock lever into "UNLOCK" position
Drive System	Deviation of drive direction	Blocked through stones	*Remove
		Track too loose or too tight	*Adjust accordingly
	Drive lever does not move	Lock lever in "LOCK" position	*Bring lock lever into "UNLOCK" position

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KUBOTA I.C.S. NAVIGATION LIST OF MESSAGES

If an error occurs with the machine, one of the following messages appears in the LCD display.
In case of a trouble, immediately contact your local dealer for inspection and repair.

Message	Warning lamp Color	Problem or failure (what happened)	Machine behavior (provisional measure)	Correction
 1BAAAAQAP054A	yellow	Fuel running out.	-	Add fuel.
 1BAAAAQAP055A	red	Engine oil circuit error (clogged) or engine oil shortage.	Immediately stop the engine.	The engine may be seized, failing to restart the engine. Immediately contact your local dealer for repair.
 1BAAAAQAP056A	red	Charging line in trouble. Charging failure.	Check the fan belt. (When the belt is in good condition, keep running until the battery becomes dead.)	Immediately contact your local dealer for repair.
 1BAAAAQAP058A	red	24V line engine startup alternator defective.	[Do not start the engine on 24V line. Get it restarted to see if there is the message again.]	If the message does not reappear, no repair is needed. If the message stays on, contact your local dealer for repair.
 1BAAAAQAP057A	yellow	The engine has been started with the lock lever down.	The engine fails to start.	Pull up the lock lever and start the engine.
 1BAAAAQAP059A	yellow	The hour meter has reached the specified count-up. Carry out the maintenance job.	-	Carry out the specified maintenance job.
No message (warning lamp flashing)	red	Sensor power line short circuited.	The work light lights up.	Immediately contact your local dealer for repair.

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