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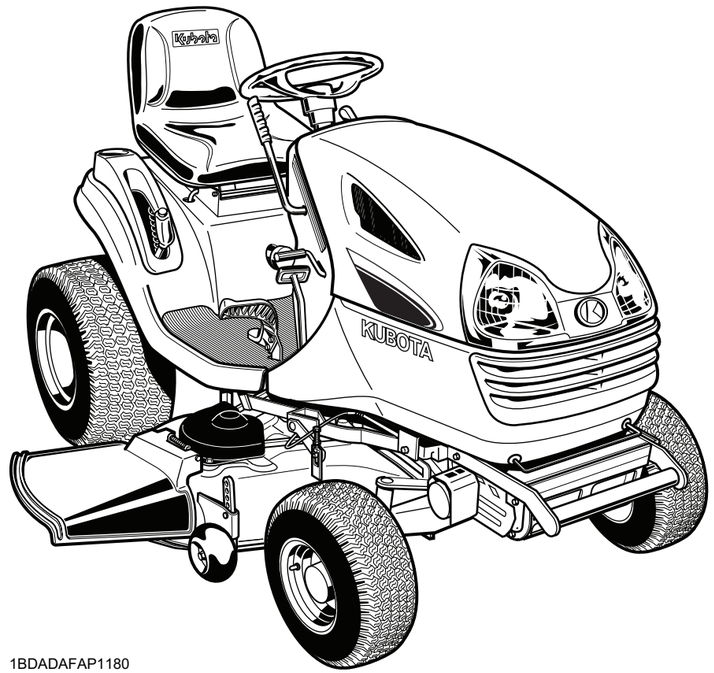
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T1880.T2080.T2380

OPERATOR'S MANUAL

KUBOTA
LAWN TRACTOR

MODELS T1880
T2080
T2380



1BDADAFAP1180

READ AND SAVE THIS MANUAL

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⚠ SAFE OPERATION

Careful operation is your best insurance against an accident. Read and understand this section carefully before operation. All operators, no matter how experienced they may be, should read this and other related manuals before operation of the machine or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.
This cutting 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. Know your equipment and its limitations. Read, understand and follow all instructions in this manual before attempting to start and operate the machine.
2. Know the controls and how to stop quickly.
3. Pay special attention to the safety labels on the machine and mower.
4. The exhaust gas from the muffler is very hot. To prevent fire, do not expose dry grass, mowed grass, oil or any other combustible materials to exhaust gas. Also keep the engine and muffler clean all the time.
5. Never wear loose, torn, or bulky clothing. It may catch on moving parts or controls, leading to the risk of accident. Safety boots or shoes, eye and hearing protection, gloves, etc. are recommended.
6. Do not operate machine or any implement attached to it while under the influence of alcohol, drugs, or other substances or while fatigued.
7. Check brakes, and other mechanical parts for faulty adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
8. Keep the machine and attachments in good operating condition and keep safety devices in place and in proper working condition.
9. This machine is equipped with many safety devices. Do not attempt to remove or alter them.
10. Keep all shields and guards in place. Replace all missing or damaged items for your safety.
11. Never allow any bystanders around or near machine during operation.
    Be sure the area is clear of other people before mowing.
    Stop machine if anyone enters the area.
12. Before allowing other people to use your machine, explain proper operation to them and have them read this manual before operation.
13. Never allow passengers or non-qualified operators on the machine at any time. You must operate the machine from the seat only.
14. Carefully check the area to be mowed and clear any objects such as rocks, bottles, cans, toys, etc., that may damage the mower, the grass catcher or cause personal injury.
15. Keep your machine clean. Dirt, grease, and trash accumulations contribute to fires or lead to personal injury.
16. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
    Check the mower blade mounting bolts for proper tightness at frequent intervals.
17. Use only implements recommended by KUBOTA. Use proper ballast to front or rear of machine to reduce the risk of upsets. Follow the "SAFE OPERATION" procedures, specified in the Equipment's Manual.
18. Follow the maintenance recommendations. See "MAINTENANCE" section.
19. It is recommended that your machine be thoroughly inspected at least once a year by an authorized KUBOTA Dealer.

2. OPERATING

◆ **Starting**

1. Never start engine or operate levers from anywhere other than the seat.
2. Before starting the engine, make sure that all levers (including auxiliary control levers) are in their neutral positions, that the parking brake is engaged, and that both the mower clutch and the Power Take-Off (PTO) are disengaged.
3. Do not start engine by shorting across starter terminals or by by-passing the safety start switch. The machine may start and move if normal starting circuitry is bypassed.
4. Do not operate or idle engine in a poorly ventilated area. Exhaust contains poisonous carbon monoxide, a colorless and odorless gas.

◆ **Working**

1. Watch where you are going at all times. Watch for and avoid obstacles. Be alert near trees and other obstructions.
2. When working in groups, always let others know what you are doing ahead of time.
3. Never try to get on or off a moving machine.
4. When using any attachments, never direct discharge material toward bystanders. Do not allow anyone near the attachments while in operation.
   Do not mow when bystanders are present in the mowing area.

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SPECIFICATIONS

Model				T1880	T2080	T2380
Engine	Model			GH540V	GH737V	GH738V
	Type			OHV air cooled gasoline engine		
	Number of cylinders			1	2	
	Total displacement		cm^3 (cu. in.)	597 (36.4)	725 (44.2)	
	Max.horse power		kW (HP)	13.4 (18)	14.9 (20)	16.4 (22)
	Cylinder bore and stroke		mm (in.)	89 x 86 (3.50 x 3.38)	83 x 67 (3.27 x 2.64)	
	Fuel			Automobile unleaded or regular gasoline		
	Starter			Electric starter with battery		
	Lubrication			Full pressure lubrication		
	Cooling			Forced air cooled		
	Battery type			10U1L (12V, 300CCA)		
	Spark plug			Champion RC12YC		
Capacities	Fuel tank		L (U.S. gals.)	13.5 (3.6)		
	Engine crankcase		L (U.S. qts.)	1.5 (1.6)	1.8 (1.9)	
	Hydrostatic transmission case		L (U.S. qts.)	2.75 (2.9)		
Machine	PTO			Belt		
	Direction of revolution			Clockwise viewed from top		
	Revolution (PTO speed)		rpm	3200		
	PTO clutch			Belt tension		
	Transmission			Hydrostatic transmission		
	Traveling speeds	Forward	km/h (mph)	0 to 9.0 (0 to 5.6)		
		Reverse	km/h (mph)	0 to 5 (0 to 3.1)		
	Brake			External disktype		
	Tires	Front		15 x 6.00-6		
		Rear		22 x 11.00-10		
Dimensions	Overall length		mm (in.)	1955 (77.0)		
	Overall width (with mower)		mm (in.)	1392 (54.8)		1544 (60.8)
	Overall height		mm (in.)	1090 (42.9)	1125 (44.3)	
	Wheelbase		mm (in.)	1290 (50.8)		1380 (54.3)
	Treads	Front	mm (in.)	783 (30.8)		
		Rear	mm (in.)	727 (28.6)		
	Weight (with mower)		kg (lbs.)	290 (639)	295 (650)	300 (661)

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OPERATING THE ENGINE

WARNING

To avoid serious injury:

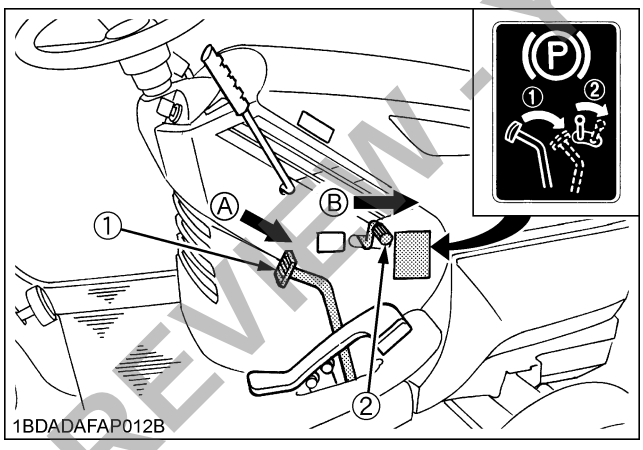
- **Read "SAFE OPERATION" in the front of this manual.**
- **Read the danger, warning and caution labels located on the machine.**
- **To avoid danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start the engine while standing on the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

STARTING THE ENGINE

1. Apply the parking brake.

■Parking Brake Lock Pedal

- To apply the parking brake, depress the brake pedal and the parking brake lock pedal simultaneously with your right foot. Then release the brake pedal while holding the parking brake lock pedal down.
- To release the parking brake, depress the brake pedal and release slowly with your right foot.

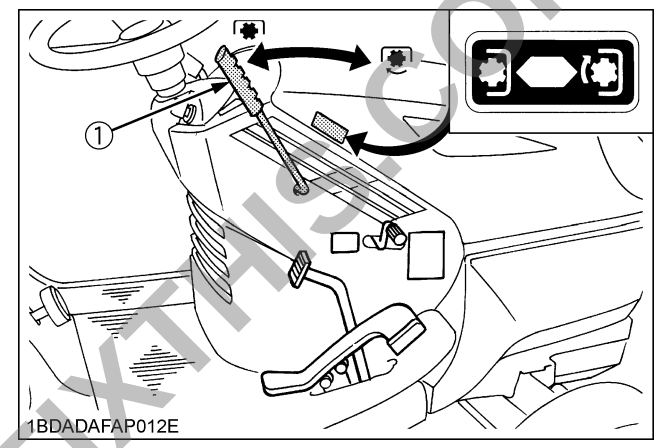


(1) Brake pedal
(2) Parking brake lock pedal
(A) "DEPRESS"
(B) "PUSH FORWARD WHILE DEPRESSING (1)"

NOTE :

- This machine is equipped with safety devices.
  If you dismount from the seat and the parking brake is not applied, the engine will stop automatically.
  (Operator presence control)

2. Make sure that the PTO lever is in the "DISENGAGED" position.

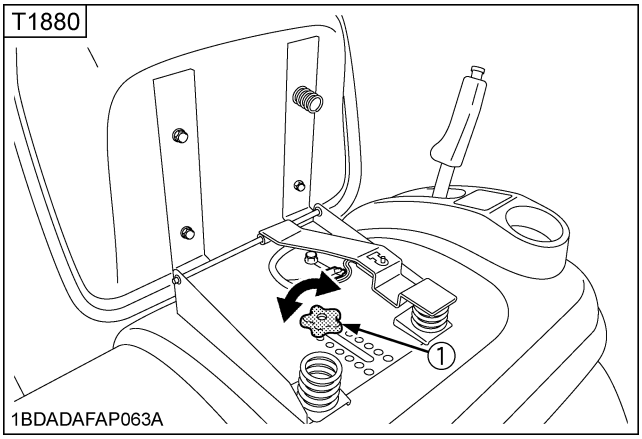


(1) PTO lever
: "ENGAGED"
: "DISENGAGED"

3. Adjusting the operator's position.

[T1880]

The operator's seat position can be adjusted forward and rearward. Loosen the seat adjustment knob, slide the seat to the desired position and then retighten the knob.



(1) Seat adjustment knob

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MOWER MOUNTING

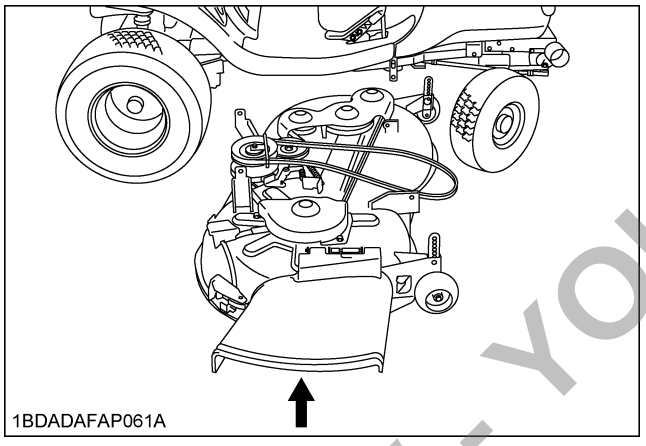
ATTACHING THE MOWER

WARNING

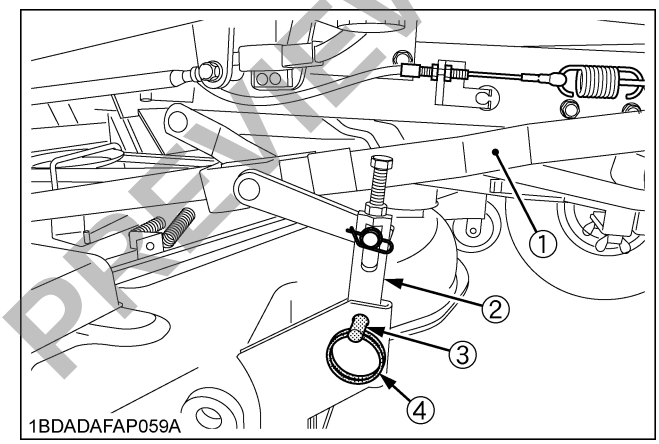
To avoid serious injury:

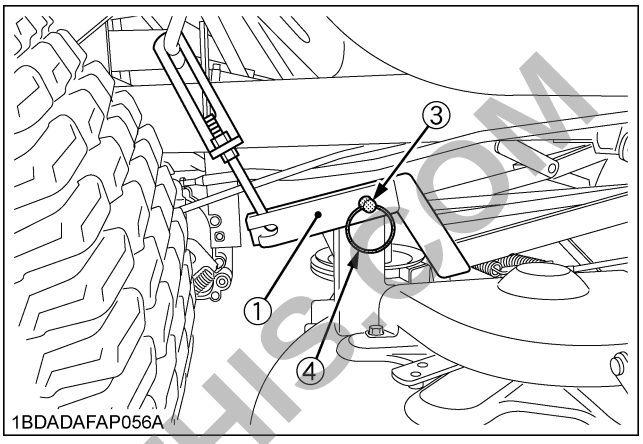
- **Shut off the engine and remove the key before attaching the mower.**

1. Park the machine on level ground and place the mower deck at the right side of machine.
   Raise mower lift lever and lock in raised position.
2. Turn the front wheels to the left. Slide the mower under the machine, then return wheels to straight ahead position. Adjust height control dial to 1" and lower mower lift lever and lock in lower position.



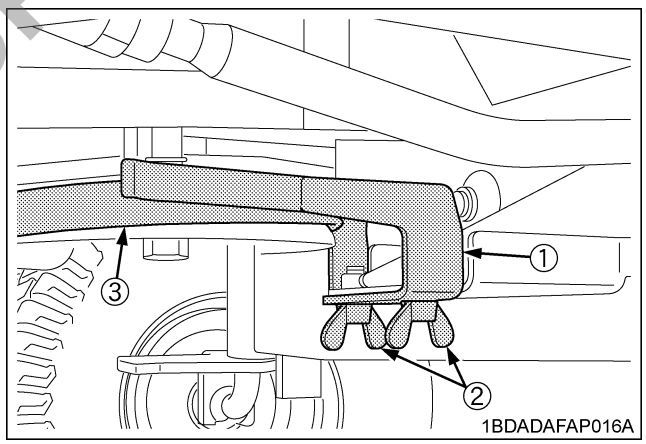
3. Attach the mower deck to the link and mower link with 4 clevis pins and snap rings.





(1) Mower link
(2) Link
(3) Clevis pin
(4) Snap ring

4. Attach the PTO belt to the engine pulley then attach the belt support bracket.



(1) Belt support bracket
(2) Wing bolt
(3) PTO belt

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If the engine is not performing correctly, refer to the table below for the cause and its corrective measure.

If	Check
Engine is difficult to start.	● Fuel tank or fuel filter is clogged by dirt.
	● Spark plug malfunction.
	● Dirt or water in the fuel system.
	● In winter, oil viscosity increases, and engine cranks slow.
	● Battery is discharged.
Insufficient engine power.	● Air cleaner element is clogged. ● Insufficient fuel flow or quality.
Engine stops suddenly.	● Insufficient fuel.
Exhaust fumes are colored.	● Fuel quality is poor.
Black smoke is emitted from the muffler during operation; power output is lowered.	● Air cleaner element is clogged.
	● Choke not fully opened.
Bluish white smoke is emitted from the muffler during operation.	● Too much engine oil.
Engine will not idle.	● Spark plug not gapped correctly.
	● Faulty spark plug.
Engine loses power or overheats.	● Engine overheating.
	● Dirty air cleaner.
	● Dirt or water in fuel lines, filter, etc.
	● Out of fuel.
	● Engine cooling air intake screen or air cleaner element plugged.
Engine knocks.	● Stale or low octane fuel.

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

BATTERY TROUBLESHOOTING

If	Check
Starter does not function.	● Battery discharged.
	● Poor terminal connection.
	● Battery life expired.
When viewed from top, the top of plates looks whitish.	● Electrolyte level is low.
	● Battery was used too much without recharging.
Recharging is impossible.	● Battery life expired.
Terminals are severely corroded and heat up.	● Poor terminal connection or stained terminal.

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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			Used hours (Hr)														Ref. page	
				25	50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Belt tension		Adjust	◎	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	39	*2
2	Mower brake		Check Adjust		○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	41	*2
3	Brake		Check	◎	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	41	*2
4	Greasing		-	◎	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	42	
5	Air cleaner [T2080, T2380]	Precleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hrs	38	*1
			Replace			○		○		○		○		○		○	every 100 Hrs	49	
		Air cleaner element	Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	43	*3
			Replace			○		○		○		○		○		○	every 100 Hrs	49	
	Air cleaner [T1880]	Precleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hrs or 2 months	38	*1
		Air cleaner element	Replace			○		○		○		○		○		○	every 100 Hrs or annually	49	
6	Carbon canister air filter		Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	43	*3
7	Tire		Check		○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hrs	42	
8	Engine oil		Change			○		○		○		○		○		○	every 100 Hrs or annually	43	
9	Engine shroud		Clean			○		○		○		○		○		○	every 100 Hrs	44	
10	Spark plug condition and gap		Check			○		○		○		○		○		○	every 100 Hrs	45	
11	Engine oil filter		Replace			○		○		○		○		○		○	every 100 Hrs or annually	51	
12	Transaxle fluid		Change													○	every 600 Hrs	53	
13	Transaxle oil filter		Replace													○	every 600 Hrs	52	
14	Fuel line		Check			○		○		○		○		○		○	every 100 Hrs or annually	45	
			Replace														every 2 years	53	*2
15	Fuel filter		Replace			○		○		○		○		○		○	every 100 Hrs or annually	51	

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