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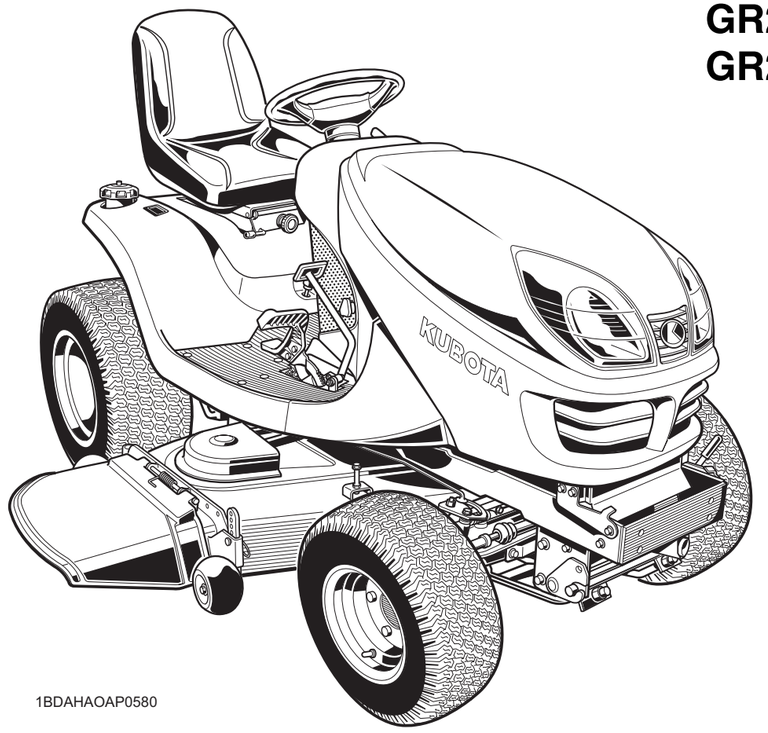
GR2020G.GR2120.GR2120AU

OPERATOR'S MANUAL

KUBOTA

LAWN AND GARDEN TRACTOR

MODELS **GR2020G**
GR2120
GR2120AU



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READ AND SAVE THIS MANUAL

Kubota

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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. Use a spark arrester where required. 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 attachments 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			GR2020G	GR2120	GR2120AU
Engine	Model			GH630	D782	
	Type			Air-cooled Gasoline	Liquid-cooled Diesel	
	Total displacement		cm^3 (cu. in.)	624 (38.1)	778 (47.5)	
	Gross power		kW (HP)	15.3 (20.5)*1	15.6 (21)*1	
	Rated revolution		rpm	---	3000	
	Low idling revolution		rpm	---	1200 to 1350	
	No. of cylinders			2	3	
	Starter			Electric starter with battery		
	Battery			10U1L (12V, 300CCA)	51R (12V, 475CCA)	
	Fuel			Automobile unleaded or regular gasoline Gasohol*2 MTBE*2	Diesel fuel No.1 (below -10℃) Diesel fuel No.2 (above -10℃)	
	Preheating system			---	Super glow	
	Engine stop			Key stop		
Capacity	Fuel tank		L (U.S.gals.)	16 (4.2)	18 (4.8)	
	Engine oil		L (U.S.qts.)	1.9 (2.0)	2.8 (3.0)	
	Radiator coolant		L (U.S.qts.)	---	2.1 (2.2)	
	Hydrostatic transmission oil		L (U.S.qts.)	3.3 (3.5)		
Machine	PTO			Shaft drive		
	PTO clutch			Hydraulic Wet Multi Discs		
	PTO brake			Wet Multi Discs		
	Tires	Front	Size	16 x 7.50 - 8		
			Type	Turf, Bar	Turf, Bar	Turf
		Rear	Size	23 x 10.50 - 12		
			Type	Turf, Bar	Turf, Bar	Turf
	Steering type			Full hydraulic power steering (Glide steer)		
	Brake			Internal expanding brake		
	Travel speed control			Foot pedal		
	Transmission			Hydrostatic		
	Traveling speeds	Forward	km/h (mph)	0 to 10 (0 to 6.2)		
		Reverse	km/h (mph)	0 to 5 (0 to 3.1)		

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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.**

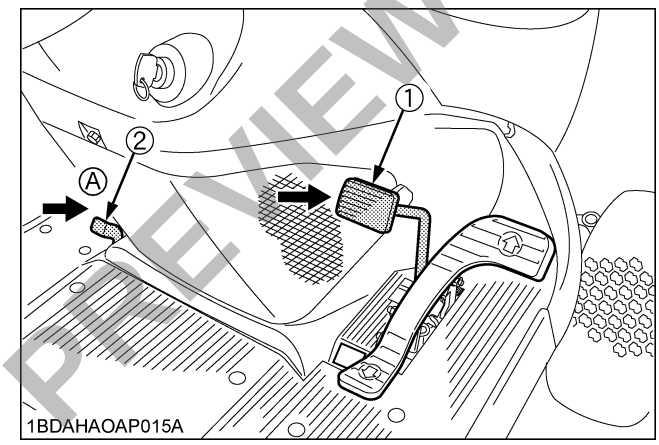
STARTING THE ENGINE

1. Sit on the operator's seat.

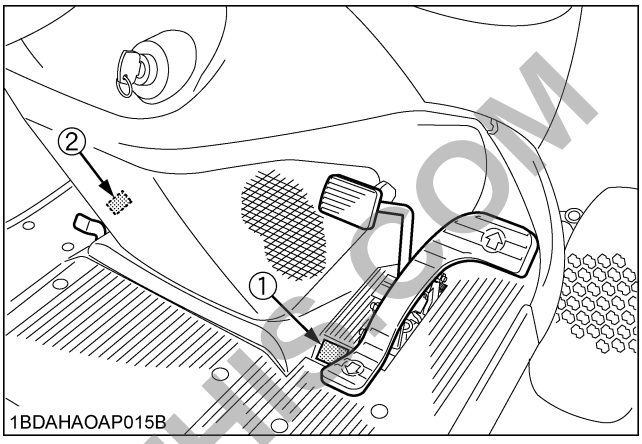
2. Apply the parking brake.

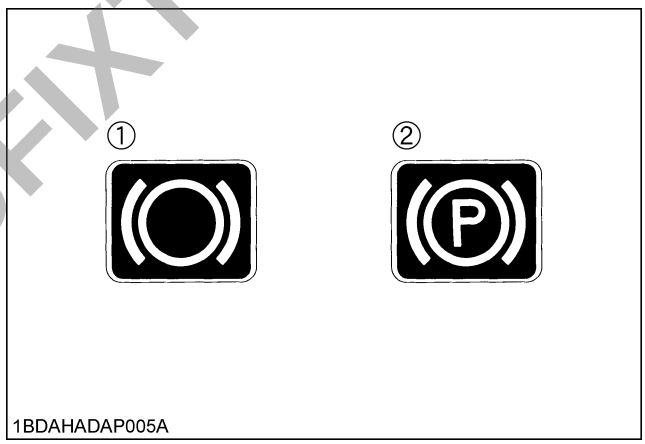
To apply the parking brake:
Depress the brake pedal firmly with your right foot and the parking brake pedal simultaneously with your left foot. Then release the brake pedal while holding the parking brake pedal down.

To release the parking brake:
Depress the brake pedal and release slowly.



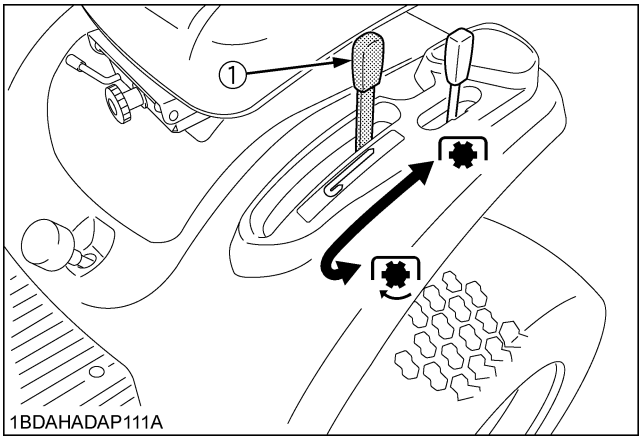
(1) Brake pedal
(2) Parking brake pedal
(A) "DEPRESS"





(1) Brake
(2) Parking brake

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



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

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MOWER MOUNTING

ATTACHING THE MOWER

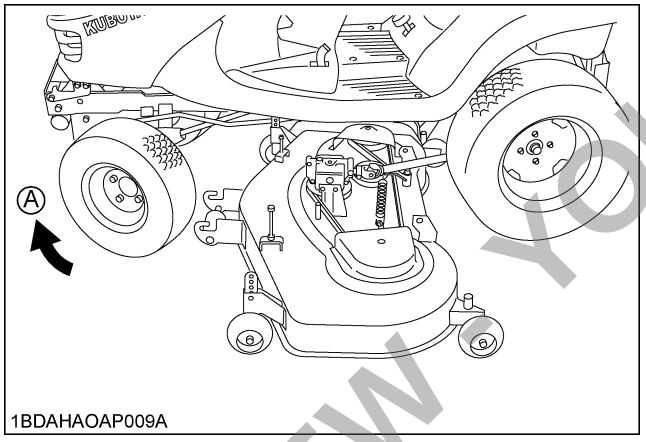
WARNING

To avoid serious injury:

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

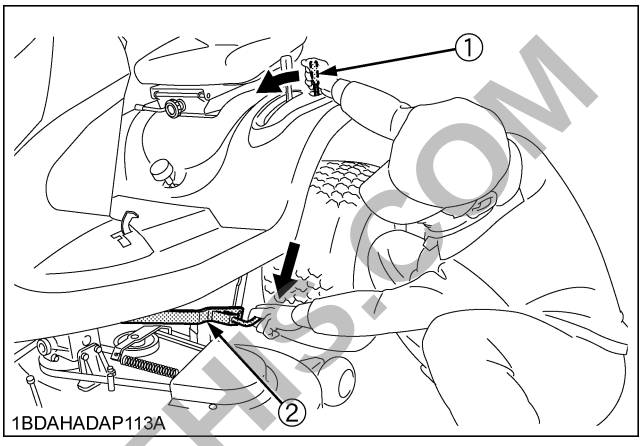
■Mounting the Mower Deck

1. Park the machine on level ground and place the mower deck at the left side of the machine.
2. Set the front anti-scalp rollers at the topmost position. Turn the front wheel to the right.
3. Pull the hydraulic lift lever to raise rear links.
4. Adjust the height control dial to "1". Slide the mower deck under the machine, and then return wheels to straight ahead position.



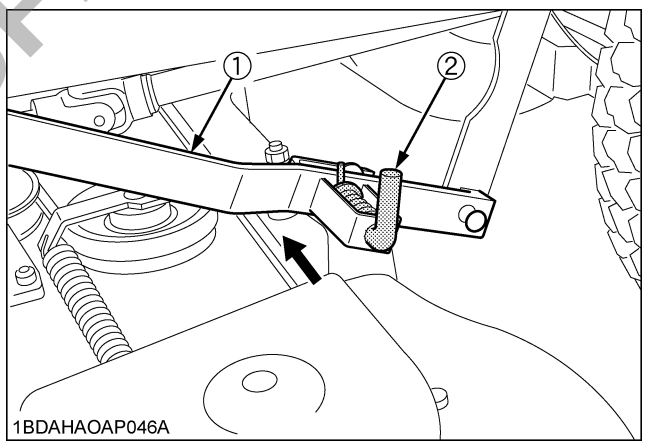
(A) "RIGHT"

5. Place the hydraulic lift lever in the "DOWN" position. Push down the rear links to align with the mower bracket.



(1) Hydraulic lift lever
(2) Mower's rear link

6. Release the L pins lock to attach the rear links to the mower deck.



(1) Mower's rear link
(2) L pin

7. Attach the front links to the front roller brackets.

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MAINTENANCE

SERVICE INTERVALS

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

[GR2020G]

No.	Items			Indication hour meter (Hr)																										Ref. Page	
				25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	After 600 Hr		
1	Engine oil		Change		◎						○								○								○	every 200 Hr	64	
2	Engine oil filter		Replace		◎						○								○								○	every 200 Hr	63	
3	Transmission fluid		Change																○									every 400 Hr	69	
4	Transmission oil filter		Replace		◎						○								○								○	every 200 Hr	65	
5	Transmission strainer		Clean																○									every 400 Hr	70	
6	Front axle case oil		Change																○									every 400 Hr	70	
7	Front axle pivot		Adjust				◎				○								○								○	every 200 Hr	68	*2
8	Engine shroud panel		Clean				○				○				○				○				○				○	every 100 Hr	59	*2
9	Engine shroud		Clean								○								○								○	every 200 Hr	68	*2
10	Engine start system		Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	49	
11	OPC system		Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	50	
12	PTO control system		Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	50	
13	Oiling		-		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	54	
14	Greasing		-		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	53	
15	Mower gear box oil		Check		○		○		○		○		○		○		○		○		○		○		○		○	every 50 Hr	53	
			Change		◎				○						○						○						○	every 150 Hr	62	
16	Air cleaner	Pre-cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	48	*1
		Air cleaner element	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 25 Hr	48	
			Replace				○				○				○				○				○				○	every 100 Hr	58	

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