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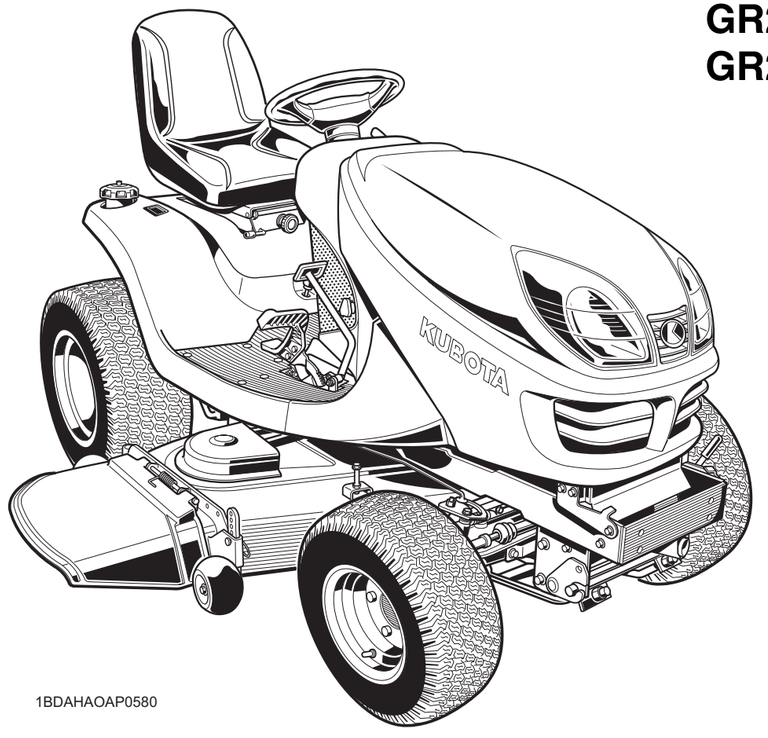
GR2020G·GR2120·GR2120AU

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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CONTENTS

⚠SAFE OPERATION ..... ⚠-1

SERVICING OF LAWN AND GARDEN TRACTOR 1

SPECIFICATIONS 2

IMPLEMENT LIMITATIONS 4

INSTRUMENT PANEL AND CONTROLS 6

MOWER MOUNTING 7
- ATTACHING THE MOWER 7
  - Mounting the Mower Deck 7
- ADJUSTING THE PARALLEL LINKAGE 9
- ADJUSTING THE MOWER DECK (SIDE TO SIDE) 9
- ADJUSTING THE MOWER LIFT STOPPERS 10
- DISMOUNTING THE MOWER DECK 10

OPERATING THE ENGINE 11
- STARTING THE ENGINE 11
  - Key Switch 12
  - Throttle Lever and Choke Lever 13
  - Cold Weather Starting 14
  - Block Heater (Option) 14
- STOPPING THE ENGINE 14
  - Engine Stop Lever (Inside the hood) 15
  - Engine Stop (By manual) 15
- WARMING UP 15
  - Warm-up and Transmission Oil in the Low Temperature Range 15
- JUMP STARTING 16
- HIGH ALTITUDE OPERATION 16

OPERATING THE MACHINE 17
- OPERATING NEW MACHINE 17
  - Changing Lubricating Oil for New Machines 17
  - Engine Break-in 17
  - Machine Break-in 17
- STARTING 18
  - Operator's Seat 18
  - Head Light Switch 18
  - Hydraulic Lift Lever 19
  - Throttle Lever 19
  - Parking Brake 19
  - Speed Control Pedal 20
  - Cruise Control Device 20
- STOPPING 21
  - Stopping 21
- CHECK DURING DRIVING 21
  - Immediately Stop the Engine if: 21
  - Easy Checker (TM) 21

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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 the controls and how to stop quickly.
2. Pay special attention to the safety labels on the machine and mower.
3. 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.
4. 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.
5. Do not operate machine or any implement attached to it while under the influence of alcohol, drugs, or other substances or while fatigued.
6. 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.)
7. Keep the machine and attachments in good operating condition and keep safety devices in place and in proper working condition.
8. This machine is equipped with many safety devices. Do not attempt to remove or alter them.
9. Keep all shields and guards in place. Replace all missing or damaged items for your safety.
10. 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.
11. Before allowing other people to use your machine, explain proper operation to them and have them read this manual before operation.
12. Never allow passengers or non-qualified operators on the machine at any time. You must operate the machine from the seat only.
13. 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.
14. Keep your machine clean. Dirt, grease, and trash accumulations contribute to fires or lead to personal injury.
15. 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.
16. 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.
17. Follow the maintenance recommendations. See "MAINTENANCE" section.
18. 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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MOWER MOUNTING

ATTACHING THE MOWER

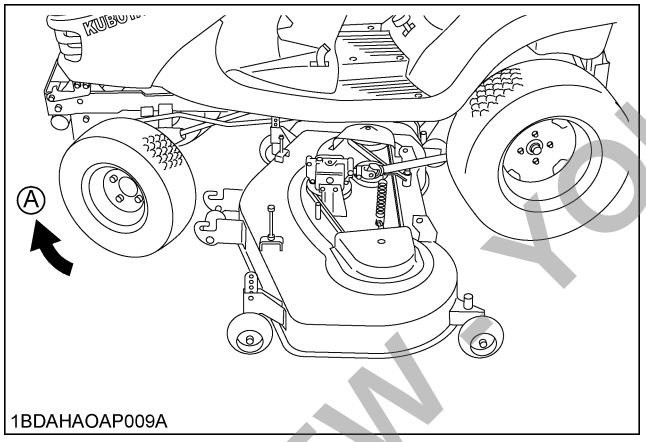
WARNING

To avoid serious injury or death:

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

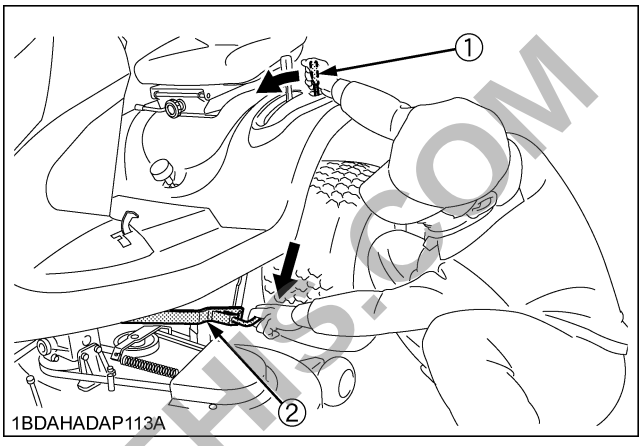
■Mounting the Mower Deck

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.



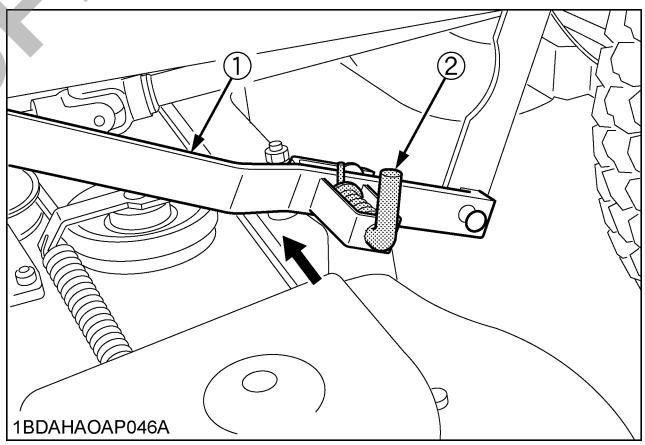
(A) "RIGHT"

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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SPECIFICATIONS

	Model			GR2020G	GR2120	GR2120AU
Engine	Model			GH631	D782	
	Type			Air-cooled Gasoline	Liquid-cooled Diesel	
	Total displacement		cm^3 (cu. in.)	674 (41)	778 (47.5)	
	Gross power		kW (HP)	15.3 (20.5)*1	12.7 (17)*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)		

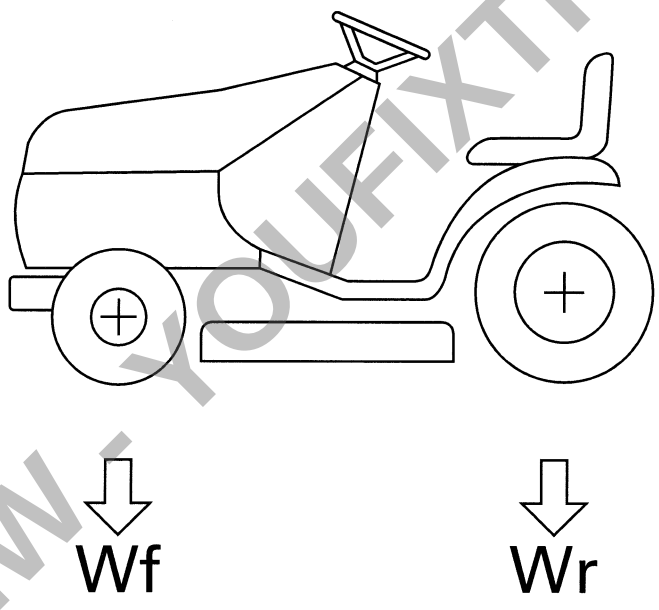
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IMPLEMENT LIMITATIONS

The KUBOTA Machine has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use of implements which exceed the maximum loading weight listed below, or which are not recommended for use with the KUBOTA Machine may result in malfunctions or failures of the machine, damage to other property and injury to the operator or others. (Any malfunctions or failures of the machine resulting from use with improper implements are not covered by the warranty.)

	Maximum axle loading weight		
MODEL	Front axle Wf	Rear axle Wr	Total gross vehicle weight
GR2020G GR2120 GR2120AU	300 kg (661 lbs)	500 kg (1102 lbs)	700 kg (1543 lbs)



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6. Depress the Speed Control Pedal.

■Speed Control Pedal

WARNING

To avoid serious injury or death:

- **Do not operate if the machine moves on a level ground with foot off Speed Control Pedal.**

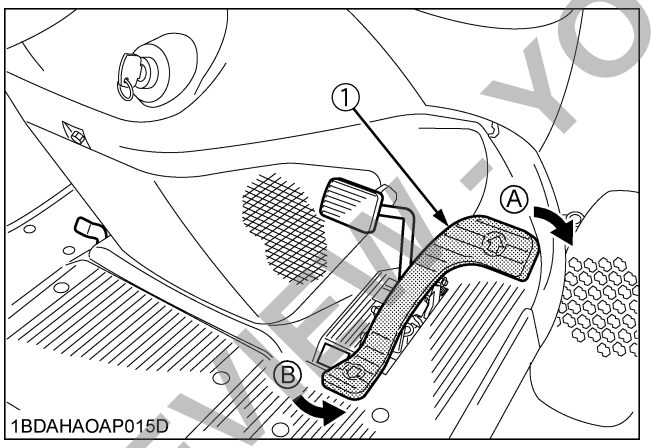
"FORWARD" (⇧)
Depress the speed control pedal with the toe of your right foot to move forward.

"REVERSE" (⇩)
Depress the speed control pedal with the heel of your right foot to move in reverse.

Depress the speed control pedal a little and you can drive slowly.
To increase travel-speed, depress the speed control pedal more until the desired speed is reached.

NOTE :

- When the parking brake is applied, the speed control pedal is locked in the "NEUTRAL" position.



(1) Speed control pedal *(A) "FORWARD"* *(B) "REVERSE"*

■Cruise Control Device

The cruise control device is designed for machine operating efficiency and operator's comfort. This device will provide a constant forward operating speed by mechanically holding the speed control pedal at a selected position.

◆ **To engage cruise control device**

1. Accelerate speed to desired level using speed control pedal.
2. Pull the cruise control knob.
3. Release the speed control pedal while pulling the cruise control knob.
4. Release the cruise control knob and desired speed will be maintained.

◆ **To disengage speed set device**

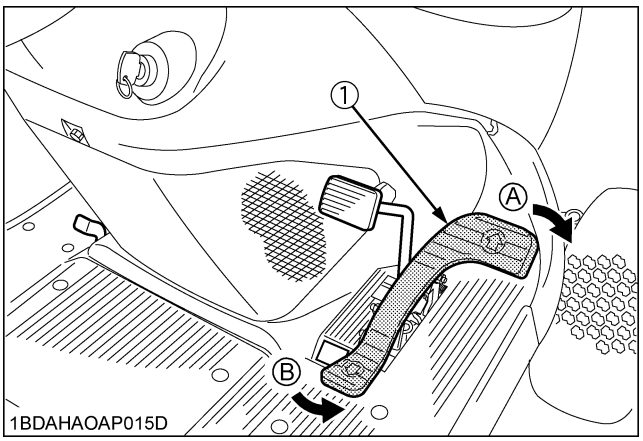
- Step on the forward acceleration side of the pedal or depress the brake pedal.

NOTE :

- Cruise control device will not operate in reverse.

IMPORTANT :

- To prevent the damage of cruise control device, do not depress the reverse pedal when the cruise control device is engaged.



(1) Speed control pedal *(A) "FORWARD"* *(B) "REVERSE"*

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7. Turn the key switch to the "START" position and release the key to the "ON" position when the engine starts.

■Cold Weather Starting

[GR2020G]

If the ambient temperature is below 0℃ (32℉) and the engine is very cold, start it in the following manner:

1. Pull the choke knob out.
2. Turn the key switch to the "START" ("") position.
   - Operate the starter 5 seconds.
   - If the engine does not start, wait 10 seconds.
   - Repeat this procedure until the engine starts.
3. When the engine starts, release the key to the "ON" ("") position.
4. Place the throttle lever midway between the "SLOW" and the "FAST" positions.

[GR2120, GR2120AU]

When the ambient temperature is below -5℃ (23℉) and the engine is very cold. (If the engine fails to start after 10 seconds, turn off the key for 30 seconds. Then repeat steps 6 and 7. To protect the battery and the starter, make sure that the starter is not continuously turned for more than 30 seconds.)

■Block Heater (Option)

A block heater is available as an option from your local dealer. It will assist you in starting your machine when the ambient temperature is below -15℃ (5℉).

8. Check to see that all the lamps on the Easy Checker(TM) are "OFF".

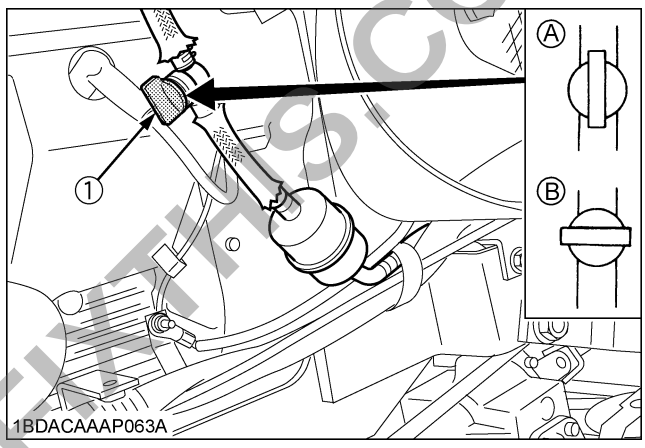
If the lamp is still on, immediately stop the engine and determine the cause.

9. Warm the engine by running at medium speed.

STOPPING THE ENGINE

[GR2020G]

1. After slowing the engine to half speed, turn the key switch to the "OFF" position.
2. Remove the key.
3. Do not leave the key switch "ON" (key in the "ON" position) as the battery will discharge when the engine is not running.
4. Apply the parking brake.
5. Close the fuel shutoff-valve.



(1) Fuel shutoff-valve *(A) "OPEN"* *(B) "CLOSE"*

IMPORTANT :

- Do not stop the engine when the machine is on an incline for a long time. The engine oil may go into the carburetor and the muffler through the valve system.
- Place the throttle lever in the half speed position to help prevent the engine from backfiring before stopping the engine.

[GR2120, GR2120AU]

1. After slowing the engine to idle, turn the key switch to the "OFF" position.
2. Remove the key.
3. Do not leave the key switch "ON" (key in the "ON" position) as the battery will discharge when the engine is not running.
4. Set the parking brake.

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LUBRICANTS, FUEL AND COOLANT

Place	Capacities		Lubricants, fuel and coolant
	GR2020G	**GR2120, GR2120AU**	
Fuel	---	18 L (4.8 U.S.gals.)	• No.2-D diesel fuel • No.1-D diesel fuel if temperature is below -10 ℃ (14 ℉)
	16 L (4.2 U.S.gals.)	---	• Automobile unleaded or regular gasoline • Unleaded gasoline 87 octane or higher • Gasohol • Methyl Tertiary Butyl Ether
Coolant	---	2.1 L (2.2 U.S.qts.)	Fresh clean water with anti-freeze
Recovery tank	---	0.25 L (0.26 U.S.qts.)	
Engine crankcase	---	2.8 L *1 (3.0 U.S.qts.)	• Engine oil: API Service Classification (See following "Engine Oil".) 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
	1.9 L *1 (2.0 U.S.qts.)	---	• Engine oil: API Service Classification SJ or higher Above -18 ℃ (0 ℉).....SAE10W-30 Below 0 ℃ (32 ℉).....SAE5W-30
Transmission case	3.3 L (3.5 U.S.qts.)		• KUBOTA SUPER UDT-2 fluid*2
Front axle case	1.9 L (2.0 U.S.qts.)		
Mower gear box	0.15 L (0.16 U.S.qts.)		

Note *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.

NOTE :

- Check the oil level of the transmission case with the mower lifted up.

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OPERATING THE ENGINE

WARNING

To avoid serious injury or death:

- **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.**

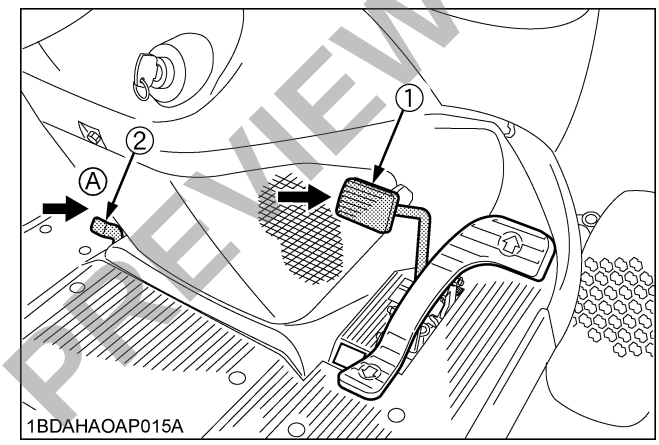
STARTING THE ENGINE

1. Sit on the operator's seat.

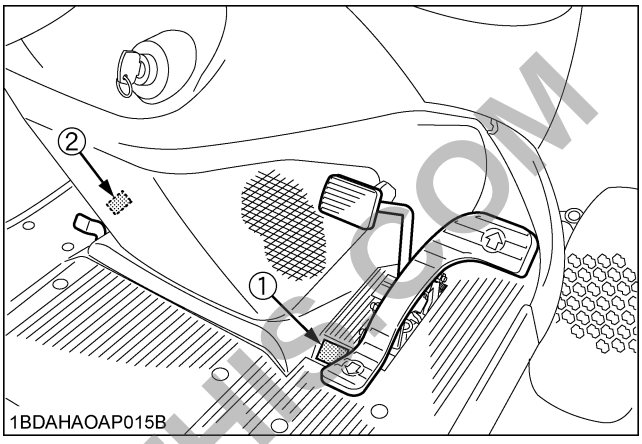
2. Apply the parking brake.

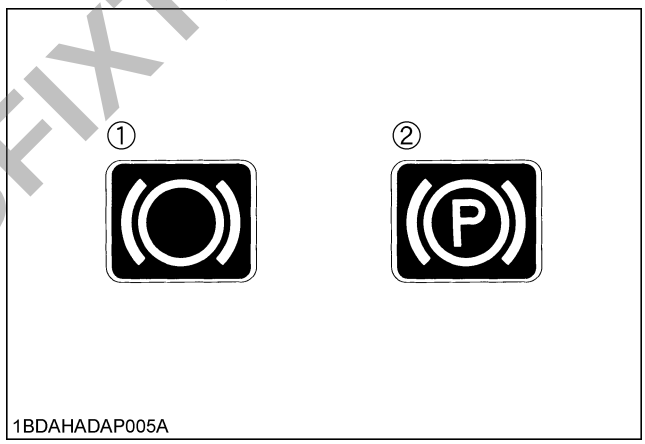
To apply the parking brake:
Depress the brake pedal firmly with your right foot and the parking brake pedal simultaneously with your left foot. Then release the brake pedal while holding the parking brake pedal down.

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



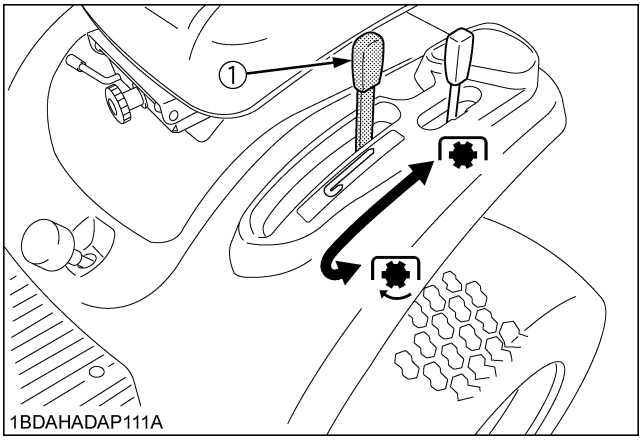
(1) Brake pedal
(2) Parking brake pedal
(A) "DEPRESS"





(1) Brake
(2) Parking brake

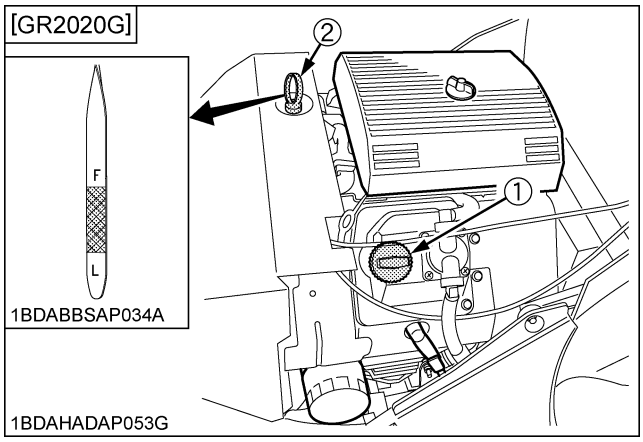
3. Make sure that the PTO lever is in the "DISENGAGED" position.



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

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(1) Engine oil port
(2) Oil level dipstick
(F) "UPPER LEVEL"
(L) "LOWER LEVEL"

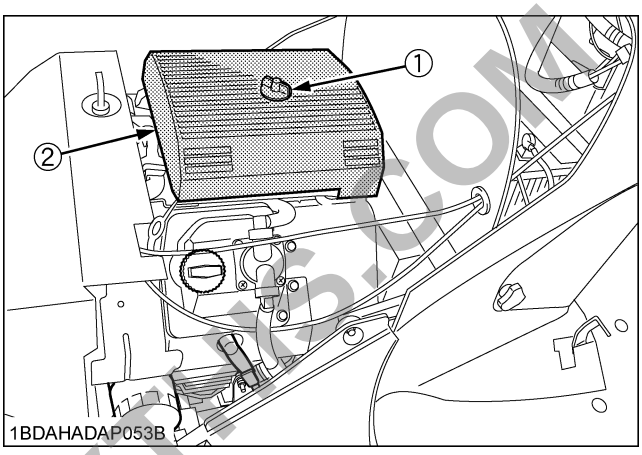
6. To check the oil level. Remove the dipstick, wipe it clean, insert it and draw it out again. Check to see that the oil level is between the 2 marks.
7. Reinstall the oil fill cap and tighten it securely. Reinstall the dipstick.

NOTE :
- To prevent extensive engine wear or damage, always maintain the proper oil level in the crankcase. Never operate the engine with the oil level below the "L" mark or over the "F" mark on the dipstick.

■Replacing Air Cleaner Paper Element

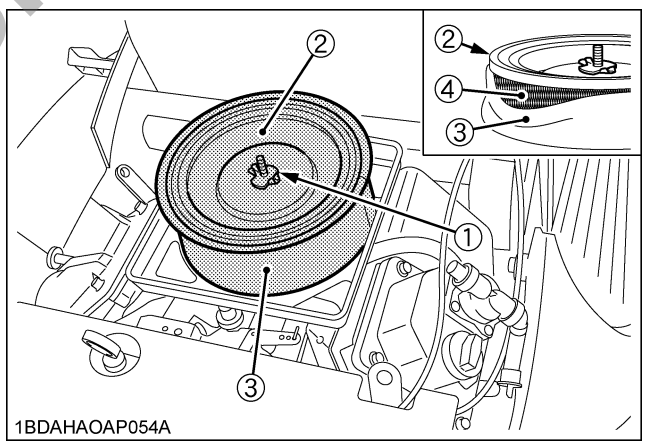
[GR2020G]

1. Loosen the cover retaining knob and remove the cover.



(1) Cover retaining knob
(2) Cover

2. Remove the element cover nut, the element cover, and the paper element with the precleaner.



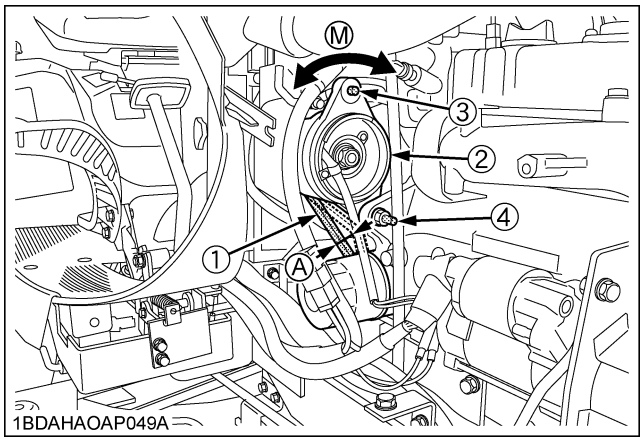
(1) Element cover nut
(2) Element cover
(3) Precleaner
(4) Paper element

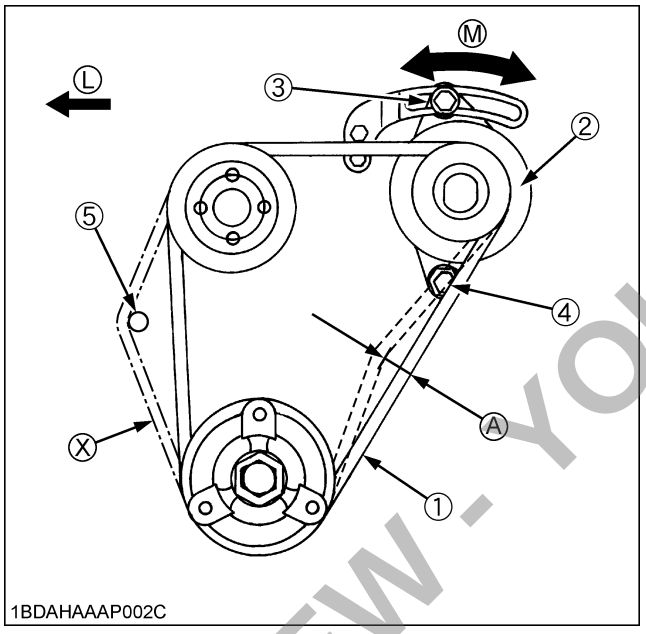
3. Carefully remove the precleaner from the paper element. Service the precleaner as described. (See "Cleaning Precleaner and Air Cleaner Paper Element" in EVERY 25 HOURS.)

NOTE :
- Operating in dusty condition may require more frequent maintenance than above.

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(1) Fan drive belt
(2) Dynamo
(3) Tension bolt
(4) Adjusting bolt
(5) Cap
(A) Approx. 10 mm (0.39 in.)
(M) "MOVE"
(L) "LEFT"
(X) Incorrect belt pass

IMPORTANT :
- When replacing the fan drive belt, be careful not to catch it on the cap under the water pump.

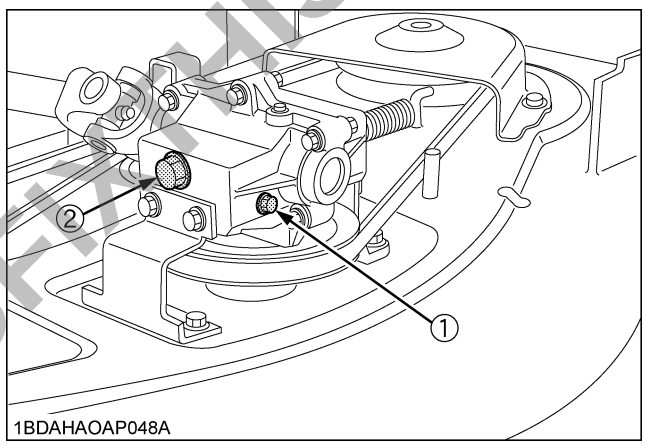
EVERY 150 HOURS

■Changing Gear Box Oil

WARNING

To avoid serious injury or death:
- **Be sure to stop the engine and remove the key before changing the oil.**

1. To drain the used oil, remove the filler plug at the gear box, tilt the mower deck and drain the oil completely into the oil pan.
2. Fill with the new oil up to the check plug port. (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)
3. After filling reinstall the filler plug and the check plug.



(1) Check plug (Bolt)
(2) Oil filler plug

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