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KUBOTA Corporation

English (Australia)
Code No. 6C435-6311-1

B3150·B3150SU

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS B3150·B3150SU



1AGAEEHAP0010

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READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

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Kubota

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⚠SAFE OPERATION ..... ⚠-1

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⚠ SAFE OPERATION

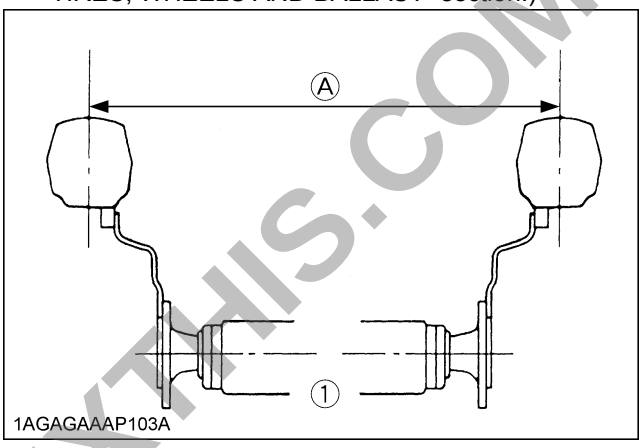
Careful operation is your best insurance against an accident.

Read and understand this manual carefully before operating the tractor.

All operators, no matter how much experience they may have, should read this and other related manuals before operating the tractor or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.

1. BEFORE OPERATING THE TRACTOR

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.
2. Pay special attention to the danger, warning and caution labels on the tractor.
3. Do not operate the tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
4. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
5. Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. hard hat, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
6. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
7. Check brakes, clutch, linkage pins and other mechanical parts for improper 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 your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
9. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.
10. Use proper weights on the front or rear of the tractor to reduce the risk of upsets. When using the front loader, put an implement or ballast on the 3-point hitch to improve stability. Follow the safe operating procedures specified in the implement or attachment manual.
11. The narrower the tread, the greater the risk of a tractor upset. For maximum stability, adjust the wheels to the widest practical tread width for your application. (See "TIRES, WHEELS AND BALLAST" section.)



(1) Rear wheels *(A) Tread Width*

12. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

◆ **CAB, ROPS**

1. KUBOTA recommends the use of a CAB or Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death, should the tractor be upset. Check for overhead clearance which may interfere with a CAB or ROPS.
2. Set parking brake and stop engine. Remove any obstruction that may prevent raising or folding of the ROPS. Do not allow any bystanders. Always perform function from a stable position at the rear of the tractor. Hold the top of the ROPS securely when raising or folding. Make sure all pins are installed and locked.
3. If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
4. Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
5. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
6. If the tractor is equipped with a foldable ROPS it may be temporarily folded down only when absolutely necessary for areas with height constraints.
   (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)

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SPECIFICATIONS

SPECIFICATION TABLE

Model				B3150 HSD	B3150SU HSD	B3150 HSD CC
				With ROPS	With ROPS	With CAB
PTO power			kW (HP)	17.7 (23.7)*		
Engine	Maker			KUBOTA		
	Model			V1505-E3-D26BH-A		V1505-T-E3-D26BHQ-A
	Type			Indirect Injection. Vertical, water-cooled 4 cycle diesel		
	Number of cylinders			4		
	Bore and stroke		mm (in.)	ϕ78x78.4 (ϕ3.1x3.1)		
	Total displacement		cc (cu.in.)	1498 (91.5)		
	Engine gross power		kW (HP)	22.8 (31.0)*		
	Rated revolution		rpm	2500		
	Low idling revolution		rpm	1100		
	Maximum torque		N-m (ft-lb)	97.9 (72.2)		
	Battery			12V, RC : 80min, CCD : 430A		
Capacities	Fuel tank		L (U.S.gals.)	27 (7.1)		
	Engine crankcase (with filter)		L (U.S.qts.)	4.0 (4.2)		
	Engine coolant		L (U.S.qts.)	4.3 (4.5)		5.4 (5.7)
	Transmission case		L (U.S.gals.)	15 (4.0)		
Dimensions	Overall length (without 3P)		mm (in.)	2570 (101.2)		2640 (103.9)
	Overall width (min. tread)		mm (in.)	1365 (53.7)		
	Overall height		mm (in.)	2245 (88.4)		2150 (84.6)
	Wheel base		mm (in.)	1666 (65.6)		
	Minimum ground clearance		mm (in.)	370 (14.6)		
	Tread	Front	mm (in.)	935 (36.8)		
		Rear	mm (in.)	1050 (41.3)		
Weight			kg (lbs.)	850 (1874)		1070 (2359)
Clutch				Not applicable		
Traveling system	Tires	Front		7-12		
		Rear		12.4-16		
	Steering			Hydrostatic type power steering		
	Transmission			Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse)		
	Brake			Wet disk type		
	Minimum turning radius (with brake)		m (feet)	2.1 (6.9)		

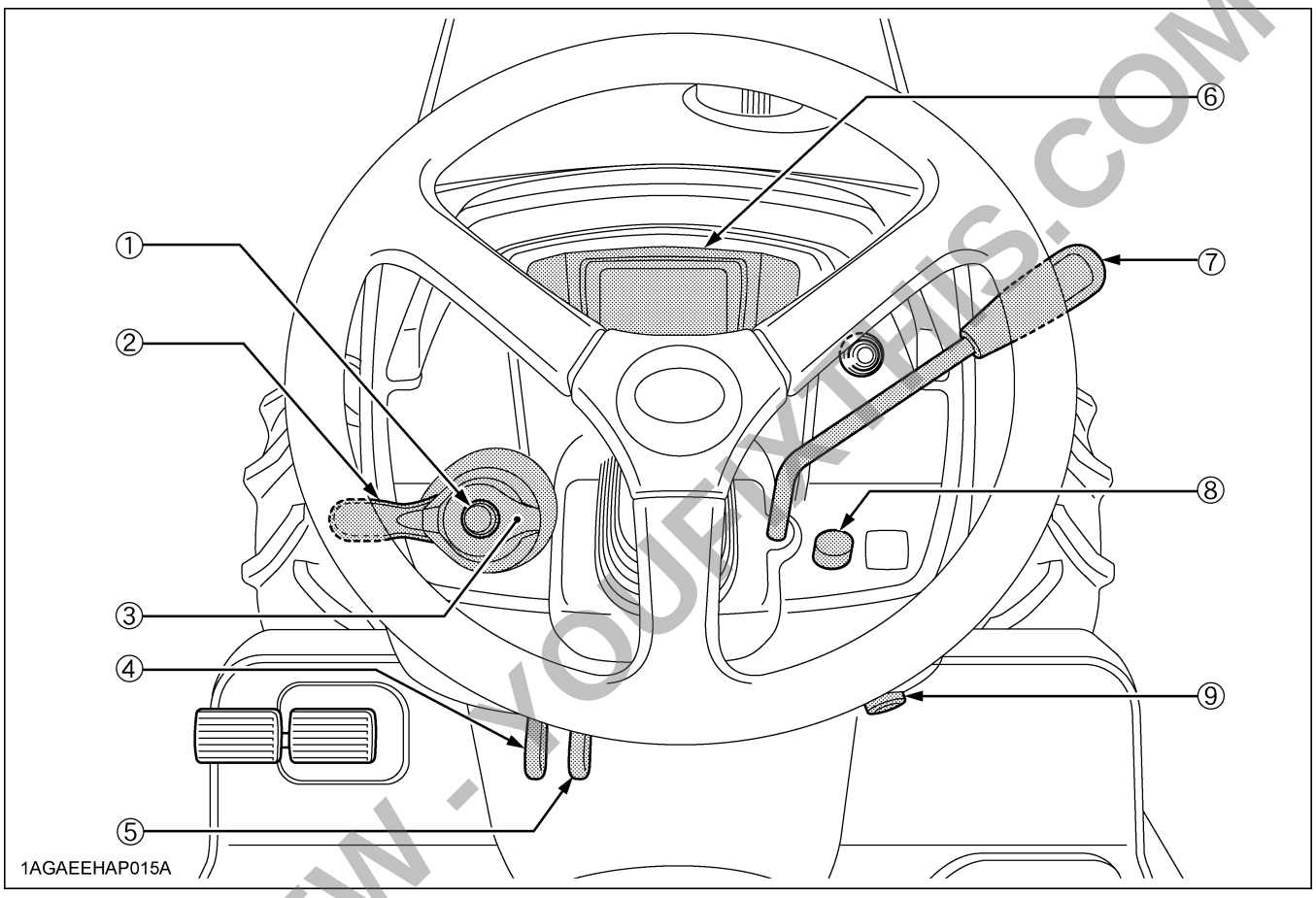
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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls

◆ ROPS Type



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OPERATING THE ENGINE

WARNING

To avoid personal injury or death:

- **Read "Safe Operation" in the front of this manual.**
- **Read the danger, warning and caution labels located on the tractor.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start engine while standing on ground. Start engine only from operator's seat.**
- **Make it a rule to set all shift levers to the "NEUTRAL" positions and to place the PTO lever in "OFF" position before starting the engine.**

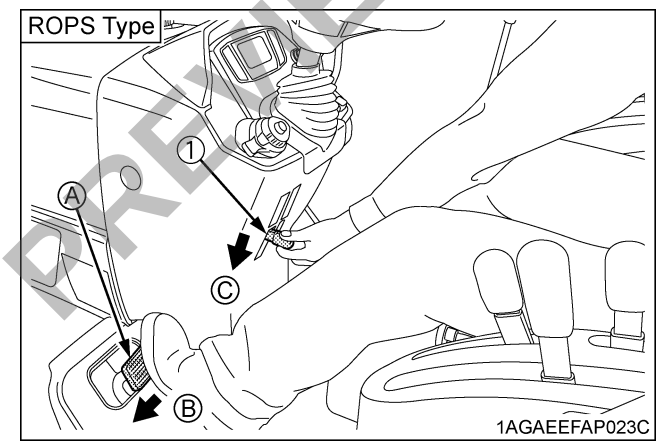
IMPORTANT :

- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 30 seconds.

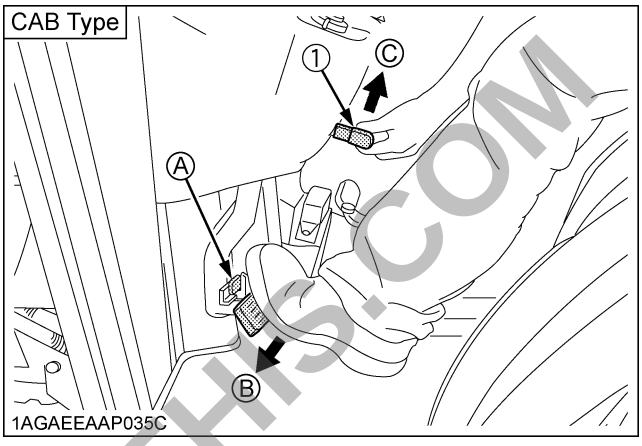
STARTING THE ENGINE

1. Make sure the parking brake is set.

1. To set the parking brake:
   (1) Interlock the brake pedals.
   (2) Depress the brake pedals.
   (3) Latch the brake pedals with the parking brake lever.
2. To release the parking brake, depress the brake pedals again.



(1) Parking brake lever
(A) Interlock the brake pedals
(B) "DEPRESS"
(C) "PULL DOWN"

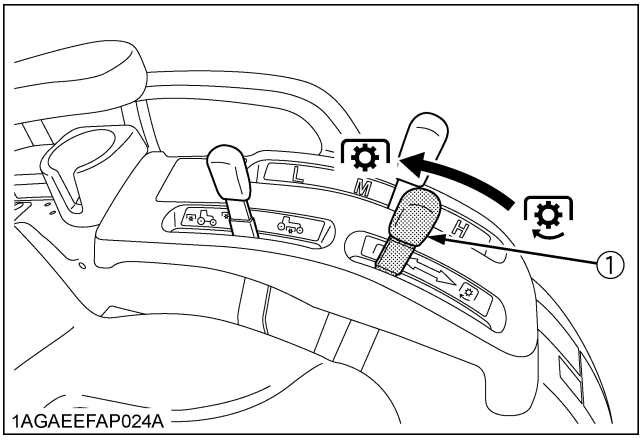


(1) Parking brake lever
(A) Interlock the brake pedals
(B) "DEPRESS"
(C) "PULL UP"

NOTE :

- It is recommended that the operator practice engaging and disengaging the parking brake on a flat surface without the engine running before operating the tractor for the first time.

2. Place the PTO clutch lever in the "OFF" position.



(1) PTO clutch lever
"ON" "ENGAGE"
"OFF" "DISENGAGE"

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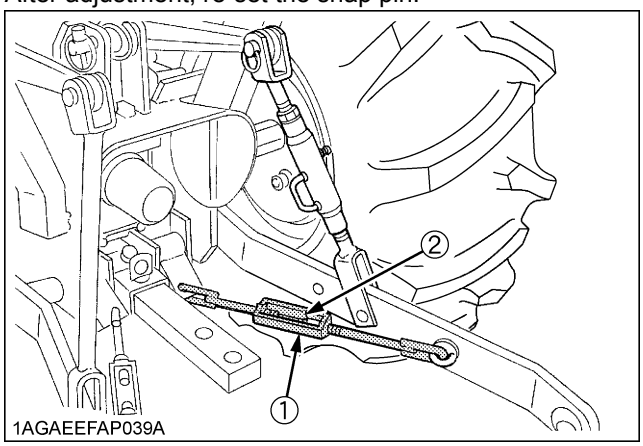
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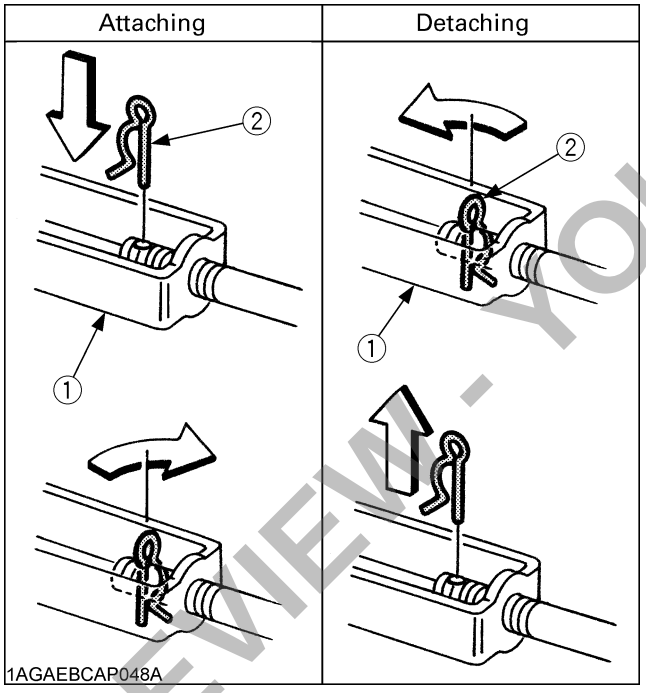
■Check Chains

[B3150SU]

Remove the snap pin and adjust the turnbuckle to control horizontal sway of the implement.

After adjustment, re-set the snap pin.





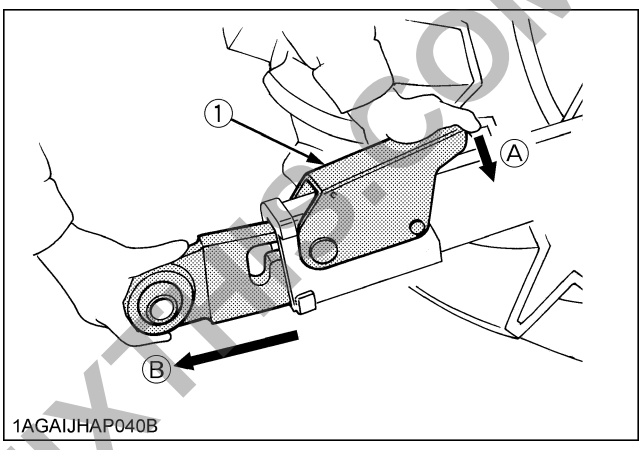
(1) Turnbuckle
(2) Snap pin

■Telescopic Lower Links

[B3150]

To attach an implement, follow the instructions below:

1. Push the levers, pull out the lower link ends, and attach to the implement.
2. Back up the tractor slightly to make sure the lower links are pushed in securely.



(1) Lever
(A) "PUSH"
(B) "PULL OUT"

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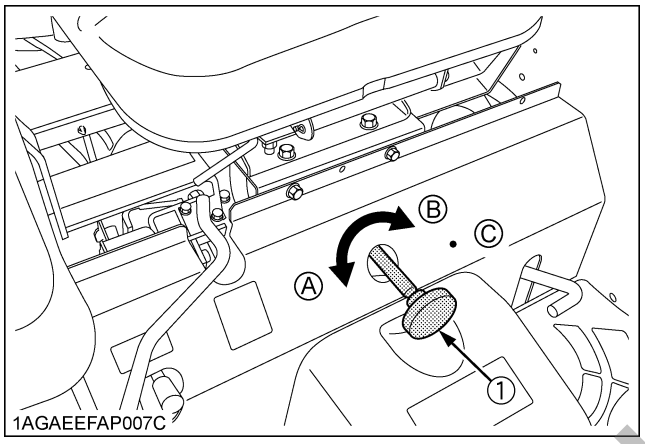
■3-point Hitch Lowering Speed

WARNING

To avoid personal injury or death:

- **Fast lowering speed may cause damage or injury. Lowering speed of implement should be adjusted to 2 or more seconds.**

The lowering speed of the 3-point hitch can be controlled by adjusting the 3-point hitch lowering speed knob.



(1) 3-Point hitch lowering speed knob
(A) "FAST"
(B) "SLOW"
(C) "LOCK"

AUXILIARY HYDRAULICS

Hydraulic outlet (rear) is provided on the tractor.

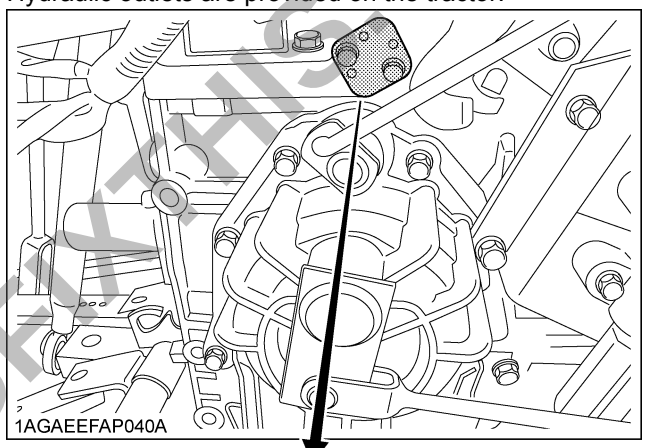
■Hydraulic Block Type Outlet

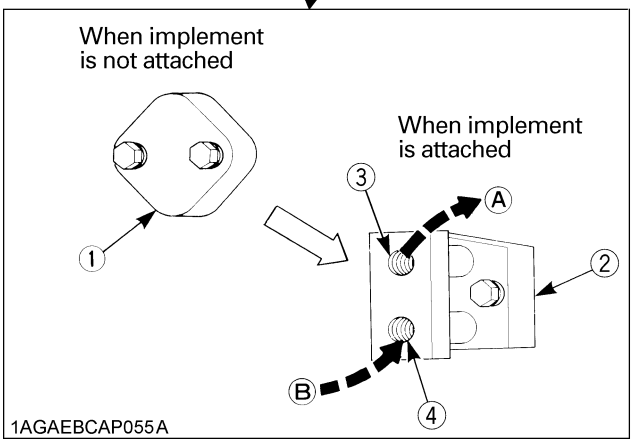
Hydraulic block type outlet is useful when adding hydraulically operated equipment such as front end loader, front blade, etc.

When an implement is attached
1. Remove the block cover.
2. Attach the block outlet cover. (option)

[Rear outlet]

Hydraulic outlets are provided on the tractor.





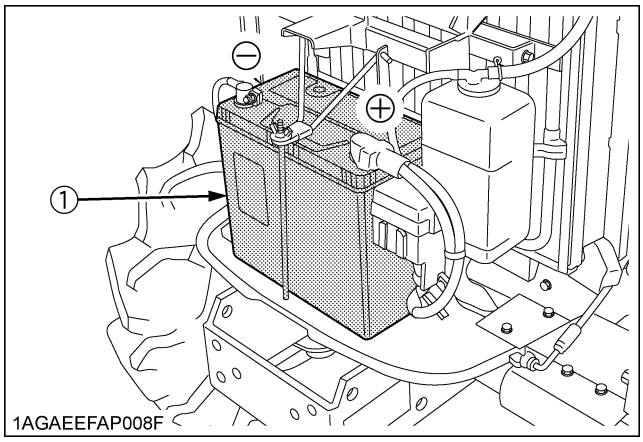
(1) Block cover
(2) Block outlet cover (option)
(3) Outlet
(4) Inlet
(A) To implement inlet
Max. flow
20.1 L/min
(5.3 U.S.gals./min)
Max. pressure
15.8 to 16.6 MPa
(161 to 169 kgf/cm²)
(2292 to 2408 psi)
(B) from implement outlet

NOTE :

- If the implement control valve has a relief valve, the tank port flow from implement should be connected to the port located on the right hand side of transmission case.

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(1) Battery

1. To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
2. A boost charge is only for emergencies. It will partially charge the battery at a high rate and in a short time. When using a boost-charged battery, it is necessary to recharge the battery as early as possible. Failure to do this will shorten the battery's service life.
3. The battery is charged if the indicator display turns green from black.
4. When exchanging an old battery for a new one, use battery of equal specification shown in **table 1**.

[TABLE 1]

Battery Type	Volts (V)	Capacity at 5 hr (Ah)	Reserve at (min)	Cold Cranking Amps (A)	Normal Charging Rate (A)
55B24L(S)-MF	12	36	80	430	4.5

◆ **Direction for Storage**

1. When storing the tractor for a long period, remove the battery from tractor, adjust the electrolyte to the proper level and store in a dry place out of direct sunlight.
2. The battery self-discharges while it is stored. Recharge it once every 3 months in hot seasons and once every 6 months in cold seasons.

■Cleaning Air Cleaner Primary Element

CAUTION

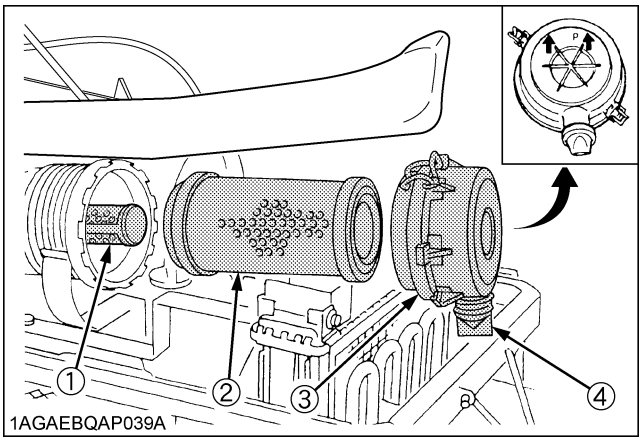
To avoid personal injury:

- **Be sure to stop the engine and remove the key before cleaning air filter element.**

1. Remove the air cleaner cover and primary element.
2. Clean the primary element:
   (1) When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under 205 kPa (2.1 kgf/cm^2, 30 psi).
   (2) When carbon or oil adheres to the element, soak the element in detergent for 15 minutes then wash it several times in water, rinse with clean water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if it is damaged or not.
3. Replace air cleaner primary element:
   Once yearly or after every sixth cleaning, whichever comes first.

NOTE :

- Check to see if the evacuator valve is blocked with dust.



(1) Secondary (safety) element
(2) Primary element
(3) Evacuator valve
(4) Cover

IMPORTANT :

- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit the cover with the arrow ⬆ (on the rear of cover) upright. If the cover is improperly fitted, evacuator valve will not function and dust will adhere to the element.
- Do not touch the secondary element except in cases where replacing is required.
  (See "Replacing Air Cleaner Secondary Element" in "EVERY 1 YEAR" in "PERIODIC SERVICE" section.)

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FOREWORD

You are now the proud owner of a KUBOTA Tractor. This tractor is a product of KUBOTA quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is KUBOTA's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. KUBOTA distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.

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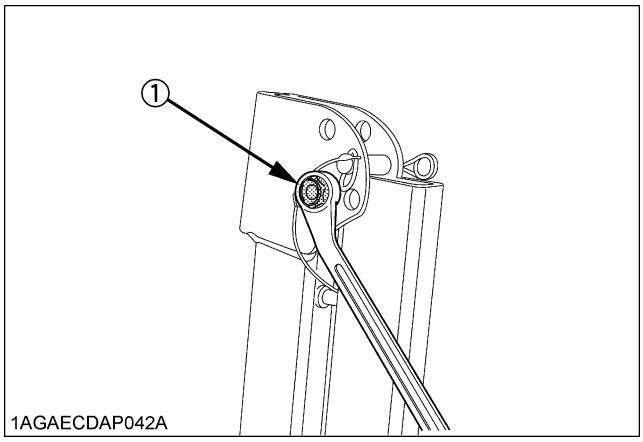
SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

DANGER :	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING :	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION :	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
IMPORTANT :	Indicates that equipment or property damage could result if instructions are not followed.
NOTE :	Gives helpful information.

■Adjustment of Foldable ROPS

- Adjust free fall of the ROPS upper frame regularly.
- If you feel less friction in folding the ROPS, tighten the nut (1) until you feel the right friction in the movement.



(1) Nut

STARTING

1. Adjusting the operator's position.

NOTE :

- The seat and suspension should be adjusted to ensure that the controls are comfortably at hand for the operator, ensuring that the operator maintains a good posture and minimizes risks from whole body vibration.

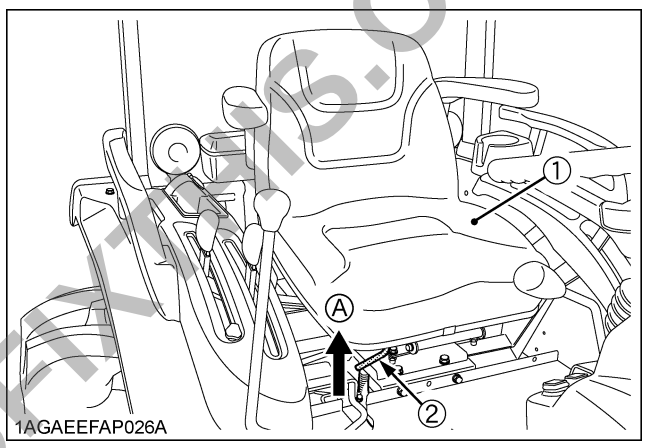
■Operator's Seat

WARNING

To avoid personal injury or death:

- **Make sure that the seat is completely secured after each adjustment.**
- **Do not allow any person other than the driver to ride on the tractor.**

[B3150 ROPS]



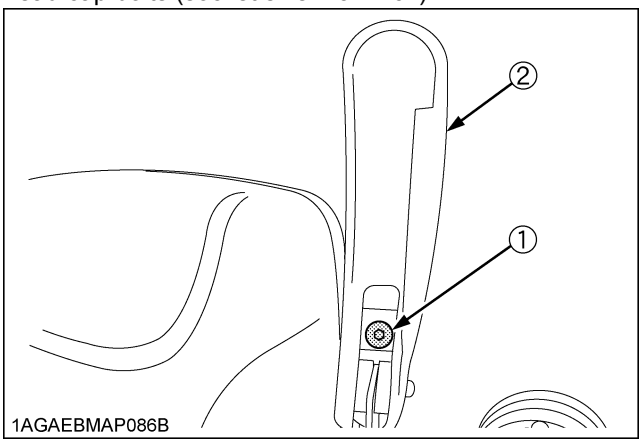
(1) Seat *(A) "PULL UP"*
(2) Position adjust lever

◆ Travel adjustment

Pull in the position adjust lever and slide the seat backward or forward, as required. The seat will lock in position when the lever is released.

◆ Armrest angle adjustment

The armrest angle can be adjusted by the hex socket head cap bolts (socket size 7/32 inch).



(1) Hex socket head cap bolt
(2) Armrest

IMPORTANT :

- After adjusting the operator's seat, be sure to check to see that the seat is properly locked.

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WIPER

■Front Wiper / Washer Switch

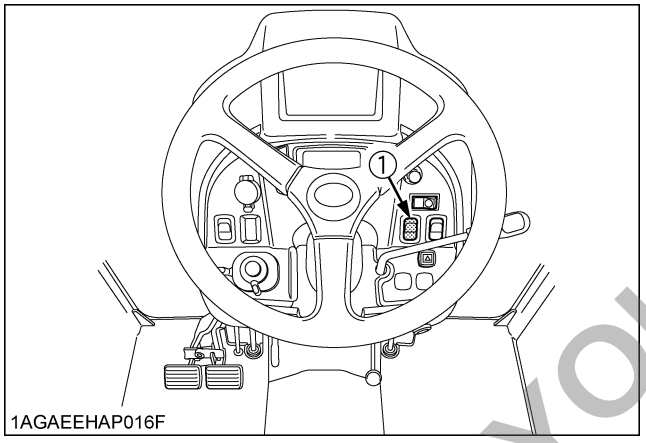
When the button marked is pressed to the first step, the wiper only is activated.

When the button is pressed further to the second step, washer fluid jets out.

The washing continues while the button is pressed and wiper is activated continuously. (Washer fluid jets out to the rear window also.)

Hold down the bottom half of the switch when the front wiper is off, and washer fluid will keep jets out.

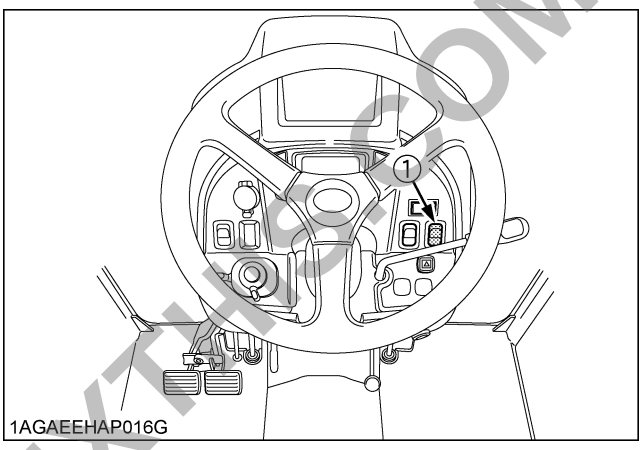
To wet the glass before activating the wipers, press the bottom half of the switch. (Washer fluid jets out to the rear window also.)



(1) Front wiper / washer switch

■Rear Wiper Switch

1. Press the upper half of the wiper switch, and the wiper is activated. Press the lower half of the wiper switch, and the wiper stops at the initial position.
2. To jet washer fluid, push the front wiper / washer switch. (Washer fluid jets out to the front window also.)



(1) Rear wiper switch

IMPORTANT :

- Do not activate the wipers when the windows are dry, they may be scratched.
  Be sure to jet washer fluid first and then activate the wipers.

■Using the Wipers in Cold Season

1. While not used in cold season, keep the wiper blades off the windshield to prevent them from sticking with ice.
2. If the windshield is covered with snow, scrape it off the windshield before using the wipers.
3. If the wiper blades are stuck on the windshield with ice and fail to move, be sure to turn the main key switch to "OFF" and remove the ice off the blades. Then place the main key switch back to "ON".
4. When commercially available cold-season wiper blades are used, make sure their size is the same as or smaller than that of the standard ones.

IMPORTANT :

- In cold season, the wiper blades and the wiper motor might get overloaded causing damage. To avoid this, be sure to take the above precautions.

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