OPERATOR'S MANUAL

KUBOTA TRACTOR

MODEL L4600



1AGAPBXAP0010

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Kubota

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SAFE OPERATION

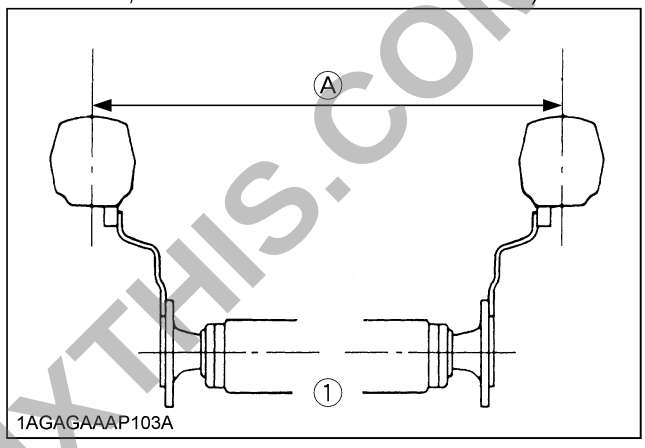
Careful operation is your best insurance against an accident.

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 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. A damaged CAB or ROPS structure must be replaced, not repaired or revised.
6. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.

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SPECIFICATIONS

SPECIFICATION TABLE

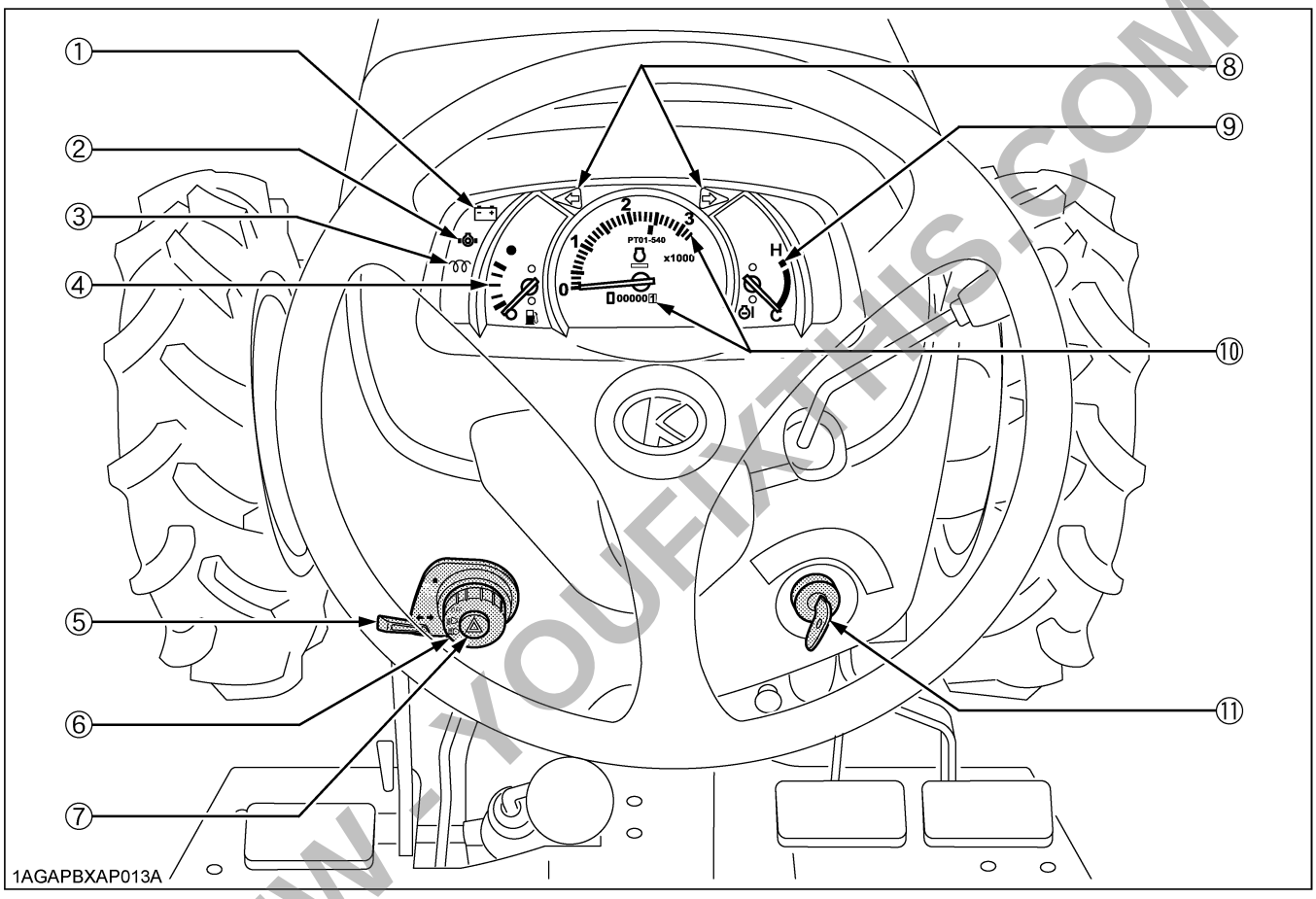
Model				L4600		
				Manual Transmission		HST
				2WD	4WD	
Engine	Model			V2203-M-E3-LB3		
	Type			Indirect injection, Vertical, Water-Cooled 4 cycle diesel		
	Number of cylinders			4		
	Total displacement		L (cu.in.)	2.197 (134.1)		
	Bore and stroke		mm (in.)	87 x 92.4 (3.4 x 3.6)		
	Rated revolution		rpm	2600		
	Low idling revolution		rpm	900 - 1000		
	Net power*		kW (HP) / rpm	32.7 (43.8) / 2600		
	PTO power* (factory observed)		kW (HP) / rpm	28.6 (38.3) / 2600		27.4 (36.8) / 2600
	Maximum torque : Gross		N-m (ft-lbs.)	143.2 (105.6)		
	Battery capacity			12V, RC : 133min, CCA : 582A		
Capacities	Fuel tank		L (U.S.gals.)	48 (12.7)		
	Engine crankcase (with filter)		L (U.S.qts.)	7.6 (8.0)		
	Engine coolant		L (U.S.qts.)	6.5 (6.9)		
	Transmission case		L (U.S.gals.)	40 (10.6)		
Dimensions	Overall length (without 3p)		mm (in.)	3120 (122.8)	2995 (117.9)	
	Overall width (min. tread)		mm (in.)	1585 (62.4)		
	Overall height (with ROPS)		mm (in.)	2330 (91.7)		
	Wheel base		mm (in.)	1850 (72.8)	1845 (72.6)	
	Min. ground clearance		mm (in.)	385 (15.2)		
	Tread	Front	mm (in.)	1280 (50.4), 1380 (54.3), 1480 (58.3), 1580 (62.2)	1155 (45.5)	
		Rear	mm (in.)	1180 (46.5), 1200 (47.2), 1300 (51.2), 1450 (57.1), 1545 (60.8)		
Weight (with ROPS)			kg (lbs.)	1410 (3109)	1445 (3186)	1450 (3197)
Traveling system	Standard tire size	Front		7.5L - 15	8.3 - 16	
		Rear		14.9 - 24		
	Clutch			Dry type single stage		
	Steering			Hydrostatic power steering		
	Transmission			Gear shift, 8 forward and 8 reverse		Hydrostatic transmission 3 range speed
	Braking system			Mechanical, Wet disk type		
	Min. turning radius (with brake)		m (feet)	2.7 (8.9)	2.6 (8.5)	

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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



ILLUSTRATED CONTENTS

(1) *Electrical charge lamp..... 28*
(2) *Engine oil pressure lamp..... 28*
(3) *Glow plug indicator..... 14*
(4) *Fuel gauge..... 29*
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(8) *Turn signal / Hazard light indicator..... 20*
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(10) *Hourmeter / Tachometer..... 29*
(11) *Key switch..... 11*

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OPERATING THE ENGINE

CAUTION

To avoid personal injury:

- **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 PTO clutch control switch in "OFF" position before starting the engine.**

IMPORTANT :

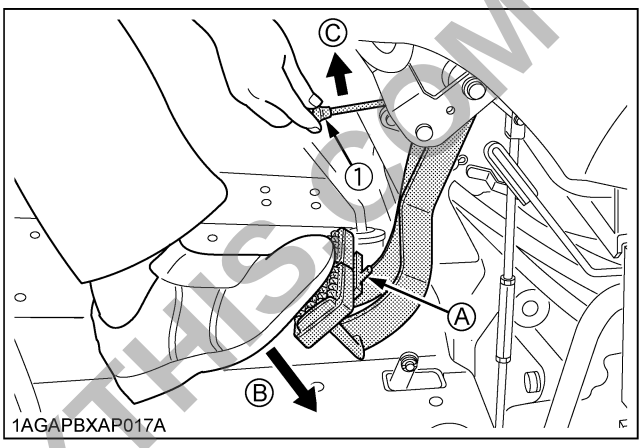
- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.

STARTING THE ENGINE

1. Make sure the parking brake is set.

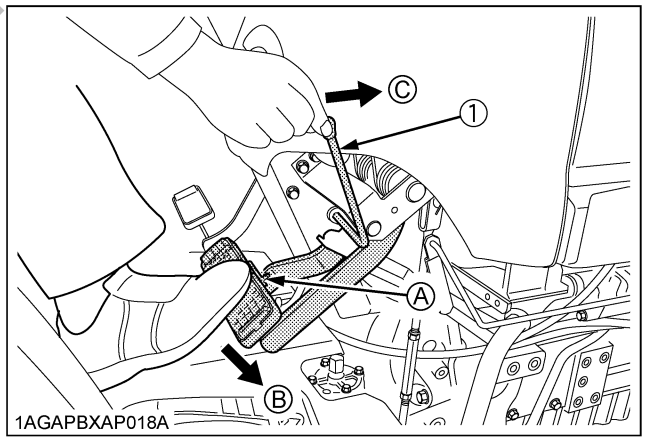
1. To set the parking brake;
   (1) Interlock the brake pedals.
   (2) Depress the brake pedals.
   (3) Latch the brake pedals with the parking brake lever.
2. To release the parking brake, depress the brake pedals again.

[Manual Transmission Type]



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

[HST Type]



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

IMPORTANT :

- To prevent damage to the parking brake lever, make sure that brake pedals are fully depressed before pushing or pulling the parking brake lever.

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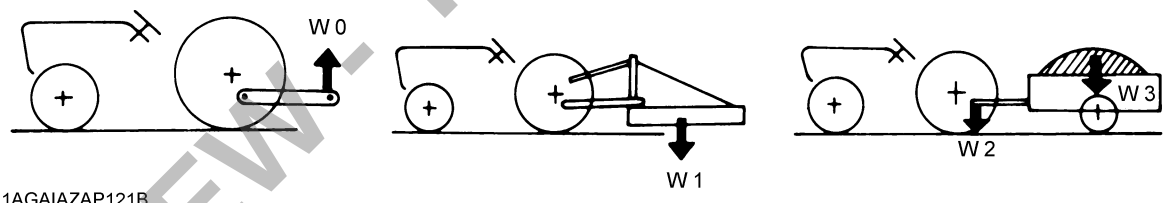
IMPLEMENT LIMITATIONS

The KUBOTA Tractor has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which are not sold or approved by KUBOTA and which exceed the maximum specifications listed below, or which are otherwise unfit for use with the KUBOTA Tractor may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

	Tread (max. width) with farm tires			Lower link end max. lifting capacity W 0
	Front		Rear	
	2WD	4WD		
L4600	1580 mm (62.2 in.)	1155 mm (45.5 in.)	1545 mm (60.8 in.)	1300 kg (2870 lbs.)

	Actual figures		
	Implement weight W 1 and/or size	Max. Drawbar Load W 2	Trailer loading weight W 3 Max. capacity
L4600	As in the following list (Shown on the next page)	650 kg (1430 lbs.)	3000 kg (6600 lbs.)

Lower link end max. hydraulic lifting capacity .....W 0
Implement weight .....The implement's weight which can be put on the lower link : W 1
Max. drawbar load .....W 2
Trailer loading weight .....The max. loading weight for trailer (without trailer's weight) : W 3



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NOTE :
- Implement size may vary depending on soil operating conditions.

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◆ **Safety for children**

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to machines and the work they do.

1. Never assume that children will remain where you last saw them.
2. Keep children out of the work area and under the watchful eye of another responsible adult.
3. Be alert and shut your machine down if children enter the work area.
4. Never carry children on your machine. There is no safe place for them to ride. They may fall off and be run over or interfere with your control of the machine.
5. Never allow children to operate the machine even under adult supervision.
6. Never allow children to play on the machine or on the implement.
7. Use extra caution when backing up. Look behind and down to make sure area is clear before moving.

◆ **Operating on slopes**

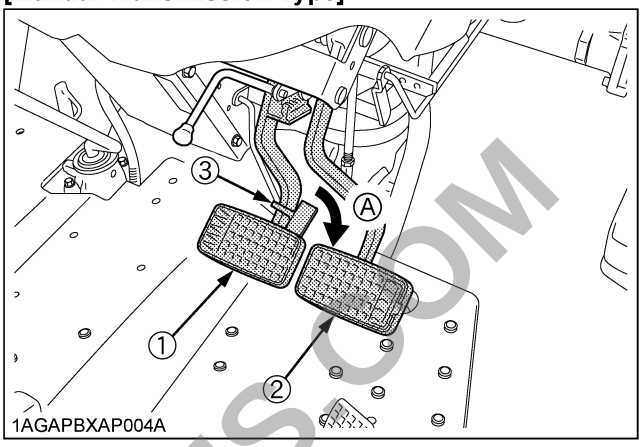
Slopes are major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution.

1. To avoid upsets, always back up steep slopes. If you cannot back up the slope or if you feel uneasy on it, do not operate on it. Stay off slopes too steep for safe operation.
2. Driving forward out of a ditch, mired condition or up a steep slope increases the risk of a tractor to be upset backward. Always back out of these situations. Extra caution is required with four-wheel drive models because their increased traction can give the operator false confidence in the tractor's ability to climb slopes.
3. Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, direction or apply brake and make sudden motions of the steering wheel.
4. Avoid disengaging the clutch or changing gears speed when climbing or going down a slope. If on a slope disengaging the clutch or changing gears to neutral could cause loss of control.
5. Special attention should be made to the weight and location of implements and loads as such will affect the stability of the tractor.
6. To improve stability on slope, set widest wheel tread as shown in "TIRES, WHEELS AND BALLAST" section.
   Follow recommendations for proper ballasting.

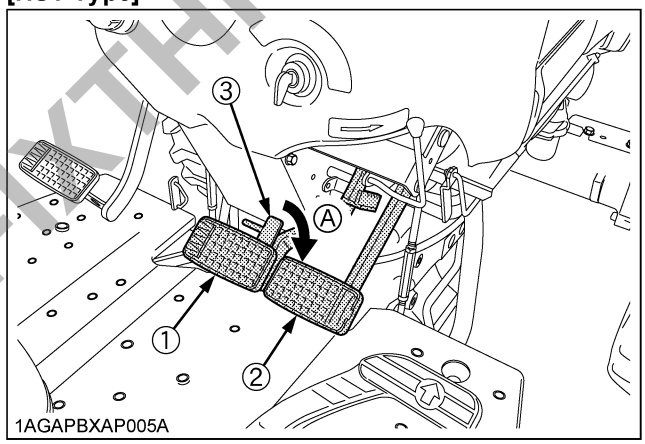
◆ **Driving the tractor on the road**

1. Lock the two brake pedals together to help assure straight-line stops. Uneven braking at road speeds could cause the tractor to tip over.

[Manual Transmission Type]



[HST Type]



(1) Brake Pedal (LH)
(2) Brake Pedal (RH)
(3) Brake Pedal Lock
(A) Whenever travelling on the road

2. Check the front wheel engagement. The braking characteristics are different between two and four wheel drive. Be aware of the difference and use carefully.
3. Always slow the tractor down before turning. Turning at high speed may tip the tractor over.

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