OPERATOR'S MANUAL

KUBOTA TRACTOR

MODEL B9200HST



F-4380

READ AND SAVE THIS BOOK

Kubota

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SAFE OPERATION

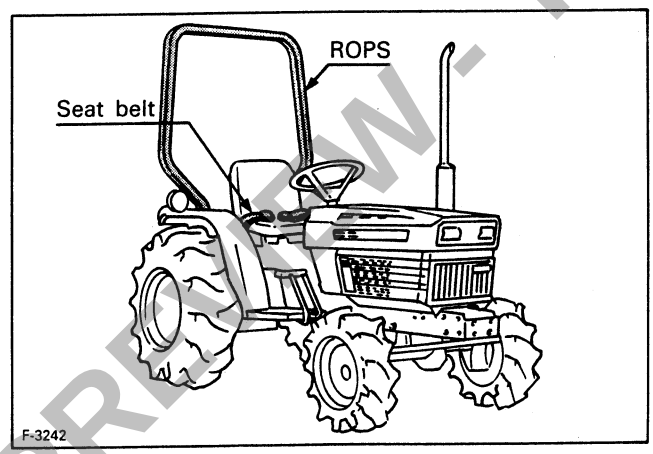
Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor. All operators, no matter how much experience they may have had,should read this and other related manuals before operating tractor or any implement attached to it. It is the owner's legal 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 warning and caution labels on the tractor itself.

(3) Kubota recommends the use of a 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.
If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting any portion may weaken the structure.
A damaged ROPS structure must be replaced, not repaired or revised. If any structural member of the ROPS is damaged, replace the entire structure at your local Kubota dealer.



(4) Always use the seat belt if the tractor has a ROPS. Do not use it if there is no ROPS. Check the seat belt daily and replace if frayed or damaged.

(5) Do not operate tractor or any implement attached to it while under the influence of alcohol, medication, or other substances or while fatigued.

(6) Carefully check the vicinity before operating tractor or any implement attached to it. Check for overhead clearance which may interfere with a ROPS. Do not allow any bystanders around or near tractor during operation.

(7) Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.

(8) Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of accident. Use additional safety items.....hard hat, safety boots or shoes, eye and hearing protection, gloves, etc.....as appropriate or required.

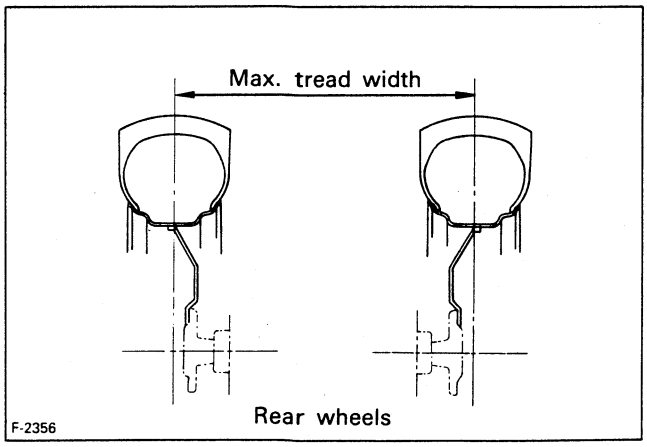
(9) Do not allow passengers or non-qualified operators on the tractor at any time. The operator must remain in the tractor seat throughout operation.

(10) Check brakes, clutch, 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 AND ADJUSTMENTS.)

(11) Keep your tractor clean. Dirt, grease, and trash accumulations contribute to fires and lead to personal injury.

(12) Use only implements meeting the specifications listed under IMPLEMENT LIMITATIONS in this manual. Use proper weights to front or rear of tractor to reduce the risk of upsets. Follow the safe operating procedures specified in the manuals included with the equipment.

(13) The narrower the tread, the greater, the risk of a tractor upset. For maximum stability, adjust the wheels to the largest practical tread width.(See page 23).



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12. TROUBLESHOOTING

12.1 ENGINE TROUBLESHOOTING

■ When engine is difficult to start

Cause	Countermeasures
Fuel is thick and doesn't flow	* Check the fuel oil tank and fuel oil filter. * Remove water, dirt and other impurities * As all fuel oil will be filtered by the filter, if there should be water or other foreign matters on the filter, replace the filter. * See your KUBOTA dealer.
Air or water mixed in fuel system	* If air is in the fuel filter or injection lines, the fuel pump will not work properly. To attain proper fuel injection pressure, check carefully for loosened fuel lines, cap nut, etc. * Loosen air vent screws atop fuel filter and fuel injection pump to eliminate all the air in the fuel oil system.
Thick carbon deposits on orifice of injection nozzle.	* This is caused when water or dirt is mixed in the fuel. Clean the nozzle injection piece, being careful not to damage the orifice. * Check to see if nozzle is working properly or not. If not, install a new nozzle. * See your KUBOTA dealer.
Valve clearance is incorrect	* Adjust valve clearance. See your KUBOTA dealer.
Leaking valves	* Grind valve.
Fuel injection timing is incorrect	* Adjust injection timing. See your KUBOTA dealer.
Engine oil becomes thick in cold weather and engine cranks slow.	* Change grade of oil according to the weather(temperature).
Low compression	* Bad valve or excessive wear of rings, pistons and liners cause insufficient compression. Replace with new parts.
Battery is discharged and the engine will not crank.	* Charge battery. * Use decompression device. * In winter, always remove battery from tractor, charge fully and keep indoors. Install in tractor at time of use.

■ When output is insufficient

Cause	Countermeasures
Air cleaner is dirty Fuel filter is dirty	* Clean the element every 100-200 hours of operation.
Carbon around orifice of nozzle piece	* Clean orifice and needle valve, being very carefully not to damage the nozzle orifice. * Check nozzle. If defective, replace with new parts. * See your KUBOTA dealer.
Compression is insufficient. Leaking valves	* Bad valve and excessive wear of rings, pistons and liners cause insufficient compression. Replace with new parts. * Grind valves.
Fuel is insufficient	* Check fuel system.
Overheating of moving parts	* Check lube oil system. * Check to see if lube oil filter is working properly. * Filter screens or elements deposited with impurities would cause poor lubrication. Clean screens. * Check to see if bearing clearance are within factory specs. * Check engine timing.
Valves out of adjustment	* Adjust to proper valve clearance. See your KUBOTA dealer.
Fuel injection pressure is incorrect	* Adjust to proper pressure. See your KUBOTA dealer.

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2. SPECIFICATIONS

2.1 SPECIFICATION TABLE

Model			B9200HST-E (2WD)			B9200HST-D (4WD)		
Engine gross power			16.8 kW (22.5 HP)*					
PTO power			11.9 kW (16 HP)*					
Engine	Model		V1200—A					
	Type		Vertical, water-cooled, 4-cycle diesel					
	No. of cylinders		4					
	Bore and stroke		75 mm × 70 mm (3.0 in. × 2.8 in.)					
	Total displacement		1237 cm^3 (75.4 cu.in.)					
	Rated revolution		41.7 r/s (2500 rpm)					
	Fuel		Diesel fuel No. 2—D					
	Starter		Electric starter with battery, glow plug, 12V, 1.0 kW					
	Lubrication		Forced lubrication by trochoidal pump					
	Cooling		Water with pressurized radiator					
	Battery		12V (65 AH)					
Capacities	Fuel tank		20 ℓ (5.3 U.S.gals)					
	Engine crankcase		4.2 ℓ (4.4 U.S.qts.)					
	Engine coolant		3.9 ℓ (4.1 U.S.qts.)					
	Transmission case		18 ℓ (19 U.S.qts.)					
	Steering gear box		0.2 ℓ (0.2 U.S.qt.)					
	Front axle diff. case		—			2.1 ℓ (2.2 U.S.qts)		
	Front axle gear case		—			0.5 ℓ (0.5 U.S.qt.)		
Tires		Front	Farm 4.00—12	Farm 6.50—10	Turf 23×8.50—12	Farm 6—12	Farm 6—12	Turf 24×8.50—12
		Rear	8.3—24	12.4—16	13.6—16	12.4—16	8.3—24	13.6—16
Dimensions	Overall length mm (in.)		2780 (109.4)	2780 (109.4)	2780 (109.4)	2780 (109.4)	2780 (109.4)	2780 (109.4)
	Overall width mm (in.)		1095 (43.1) / 1135 (44.7)	1365 (53.7)	1405 (55.3)	1365 (53.7)	1095 (43.1) / 1135 (44.7)	1405 (55.3)
	Overall height with muffler mm (in.)		1890 (74.4) Vertical	1900 (74.8) Vertical	1925 (75.8) Vertical	1900 (74.8) Vertical	1890 (74.4) Vertical	1920 (79.6) Vertical
	Wheelbase mm (in.)		1575 (62)	1575 (62)	1575 (62)	1575 (62)	1575 (62)	1575 (62)
	Min. ground clearance (Mid PTO case) mm (in.)		235 (9.3)	235 (9.3)	235 (9.3)	235 (9.3)	235 (9.3)	235 (9.3)
	Treads	Front mm (in.)	830 (32.7)	905 (35.6)	900 (35.4)	900 (35.4)	900 (35.4)	935 (36.8)
		Rear mm (in.)	890 (35.0) / 930 (36.6)	1050 (41.3)	1050 (41.3)	1050 (41.3)	890 (35.0) / 930 (36.6)	1050 (41.3)
Weight kg (lbs.)			710 (1566)	727 (1603)	733 (1616)	780 (1720)	778 (1715)	790 (1742)
PTO shaft			Transmission case rear (rear PTO), Transmission case bottom (mid PTO) and engine front (front PTO)					
		Rear PTO	SAE 1-3/8 (with over running clutch) 2 speeds (9 and 12.5 r/s at 38.4 engine r/s) (540 and 748 rpm at 2303 engine rpm)					
		Mid PTO	USA No.5 (KUBOTA 10 tooth) Involute spline 2 speeds (30.8 and 42.6 r/s at 41.7 engine r/s) (1847 and 2557 rpm at 2500 engine rpm)					
Clutch			Dry single plate					
Steering			Ball screw type					
Transmission			Main-hydrostatic transmission; range-gear shift, 3 forward and 3 reverse					
Min. turning radius m (feet)			2.4 (7.9)			2.8 (9.2)		
Brake			Internal expanding type, right and left independent with interlocking device					
Differential			Bevel gear					

Note: *Manufacturer's estimate

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9.3 MAINTENANCE CHECK LIST

Frequency of Checks	Check Points	Reference Pages
Initial operation (initial 60 hours)	During this period, pay special attention to the following. (1) After the initial 35 hours of use, change the engine oil. (2) After the initial 50 hours of use, change the transmission fluid and oil filter cartridge and clean the transmission strainer. (3) Quick starts or sudden braking should be avoided.	32 to 33 33 to 34 —
Every 75 hours	Change engine oil.	33
Every 100 hours	Lubricate the following points. King pins, Pedal shaft, Center pin, Range selector lever.	34 to 36
	Check the following points to be connected securely. Hydraulic inlet pipe clamps, Fuel pipe clamps.	31
	Clean air cleaner element.	39
	Clean fuel filter.	32
	Check battery electrolyte level.	39
	Check fuel pipe.	31
	Check fan drive belt tension.	41
	Check clutch play.	41
	Check brake play.	41
	Check steering wheel play.	41
Every 150 hours	Change engine oil filter cartridge.	33
	Check radiator hose.	37
Every 200 hours	Change transmission oil filter cartridge.	34
Every 300 hours	Change transmission fluid. Transmission case, front axle differential case (4WD), front axle gear case (right and left) (4WD). ● Clean transmission strainer.	33 to 35
Every 400 hours	Change fuel filter.	—
Every 500 hours	Flush radiator.	38
Every one to two months	Recharge battery if necessary.	40
Every 3 months	Change scale inhibitor and coolant.	36 to 37
Every year or every 6 times of cleaning	Change air cleaner element.	39
Every year	Change anti-freeze and coolant.	37
2 years after purchase	Change battery, if necessary.	—
	Change radiator hose and clamps, if necessary.	37
	Change fuel line and clamps, if necessary.	31 to 32
	Change hydraulic hoses and clamps, if necessary.	—

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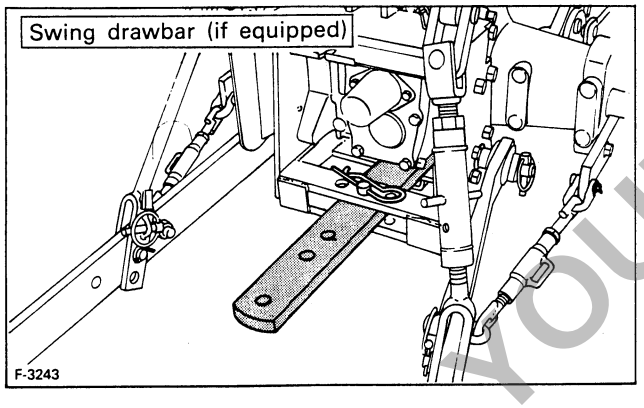
2. OPERATING THE TRACTOR

(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 clutch and the Power Take-Off (PTO) are disengaged.
Fasten the seat belt if the tractor has a ROPS.

(3) Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.

(4) Pull only from the drawbar or hitch. Never hitch to axle housing or any other point except drawbar; such arrangements only increase the risk of serious personal injury or death due to a tractor upset. (fixed or swinging type)



(5) Do not operate or idle engine in a non-ventilated area. Carbon monoxide gas is colorless, odorless, and deadly.

(6) Keep all shields and guards in place. Replace any that are missing or damaged.

(7) Avoid sudden starts. To avoid upsets, slow down when turning, on uneven terrain, and before stopping.

(8) The tractor cannot turn with the differential locked and attempting to do so could be dangerous.

(9) Do not operate near ditches, holes, embankments, or other terrain features which may collapse under the tractor's weight. The risk of tractor upset is even higher when the ground is loose or wet.

(10) Driving forward out of a ditch or mire or up a steep slope risks a tractor upset backward. Always back out of these situations. Extra caution is required with four-wheel drive models because their higher traction can give the operator false confidence in the tractor's ability to climb slopes.

(11) To avoid upsets, always back up steep slopes. Stay off hills and slopes too steep for safe operation.

(12) Watch where you are going at all times. Watch for and avoid obstacles. Be alert at row ends, near trees, and other obstructions.

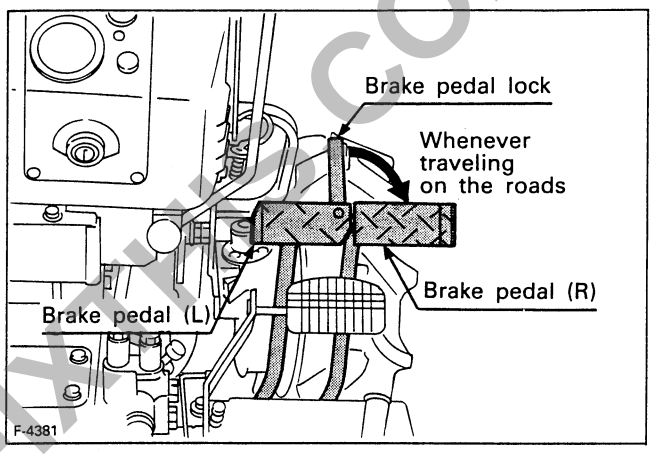
(13) When working in groups, always let the others know what you are going to do before you do it.

(14) Never "freewheel". Disengaging the clutch or shifting into neutral while descending a slope could lead to a loss of control.

(15) Never try to get on or off a moving tractor.

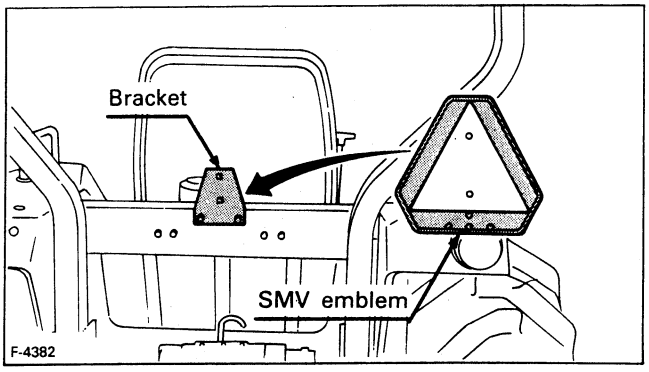
3. DRIVING THE TRACTOR ON THE ROAD

(1) Lock the two brake pedals together to help assure straightline stops. Uneven braking at road speeds could cause the tractor to roll over.



(2) Always slow the tractor down before turning. Turning at high speed may tip the tractor over.

(3) Make sure that the Slow-Moving Vehicle (SMV) emblem is clean and visible. Use hazard lights as required.



(4) Observe all local traffic and safety regulations.

(5) Turn the headlights on. Dim them when meeting another vehicle.

(6) Drive at speeds that allow you to maintain control at all times.

(7) Do not apply the differential lock while traveling at road speeds. The tractor may run out of control.

(8) Avoid sudden motions of the steering wheel as they can lead to a dangerous loss of stability. The risk is especially great when the tractor is traveling at road speeds.

(9) Do not operate an implement while the tractor is on the road. Lock it in the raised position.

(10) When towing other equipment, use a safety chain and place an SMV emblem on it as well.

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