OPERATOR'S MANUAL

KUBOTA TRACTOR

MODEL B8200



F-3240

B1600 DT

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KUBOTA

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SAFE OPERATION

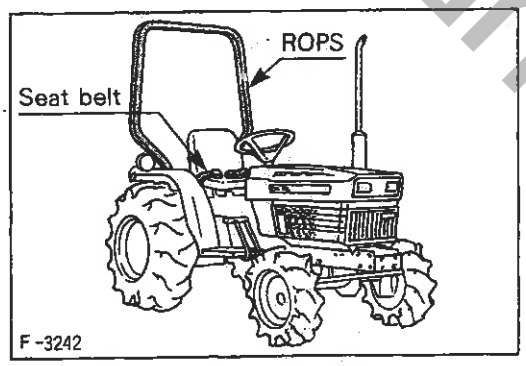
Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor. All operators, no matter how much experience they may have had, should read this and other related manuals before operating tractor or any implement attached to it. It is the owner's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

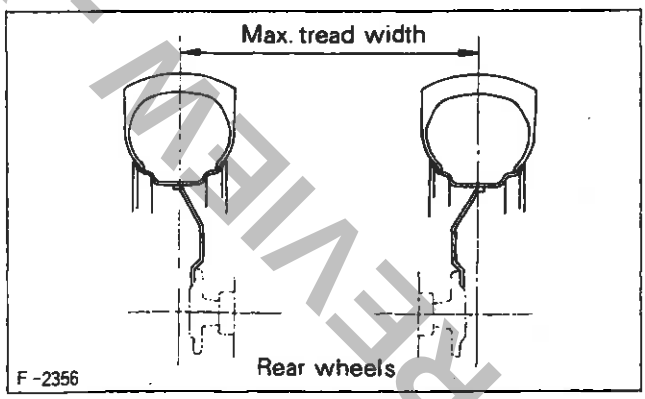
(9) Do not allow passengers or non-qualified operators on the tractor at any time. The operator must remain in the tractor seat throughout operation.

(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 24).



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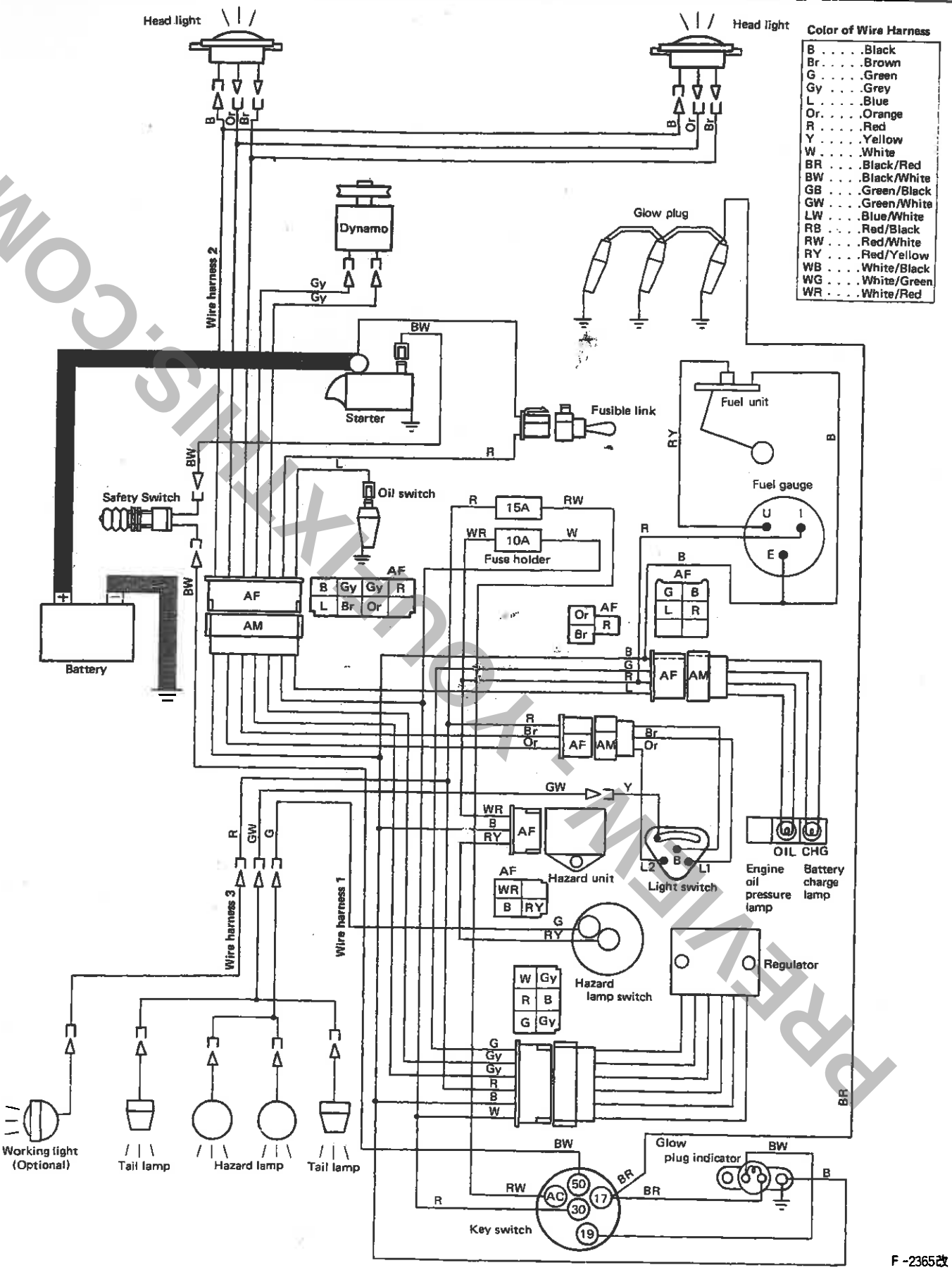
2. SPECIFICATIONS

Model			B8200E (2WD)			B8200D (4WD)		
Engine gross power			14.2 kW (19HP)*					
PTO power			11.9 kW (16HP)*					
Engine	Model		D950					
	Type		Vertical, water-cooled, 4-cycle diesel					
	No. of cylinders		3					
	Bore and stroke		75mm x 70mm (3.0 in. x 2.8 in.)					
	Total displacement		927 cm³ (56.6 cu.in.)					
	Rated revolution		43.3 r/s (2600 rpm)					
	Fuel		Diesel fuel No. 2–D					
	Starter		Electric starter with battery, glow plug and decompression device, 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		3.1 ℓ (3.3 U.S. qts.)					
	Engine coolant		4.0 ℓ (4.2 U.S. qts.)					
	Transmission case		18 ℓ (19 U.S. qts.)					
	Steering 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 x 8.5–12	Farm 6–12	Farm 6–12	Turf 24 x 8.5–12
		Rear	8.3–24	12.4–16	13.6–16	12.4–16	8.3–24	13.6–16
Dimensions	Overall length	mm (in.)	2710 (106.7)	2710 (106.7)	2710 (106.7)	2710 (106.7)	2710 (106.7)	2710 (106.7)
	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
	Wheel base	mm (in.)	1535 (60.4)	1535 (60.4)	1535 (60.4)	1535 (60.4)	1535 (60.4)	1535 (60.4)
	Min. ground clearance	mm (in.)	280 (11.0)	260 (10.2)	275 (10.8)	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.)	645 (1420)	662 (1460)	668 (1475)	710 (1565)	708 (1560)	720 (1590)
PTO Shaft			Transmission case rear (rear PTO) and engine front (front PTO)					
Rear PTO			SAE 1-3/8 (with over running clutch) 2 speed (9 and 12.5 r/s at 42.2 engine r/s) (540 and 748 rpm at 2534 engine rpm)					
Clutch			Dry single plate					
Steering			Ball screw type					
Transmission			Gear shift, 9 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

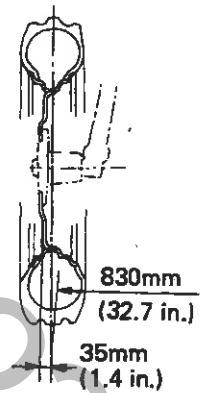
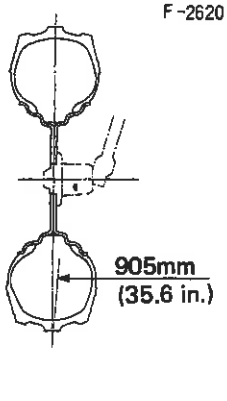
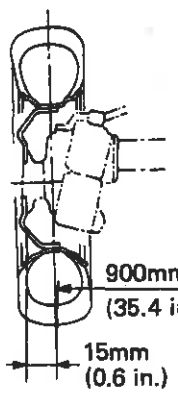
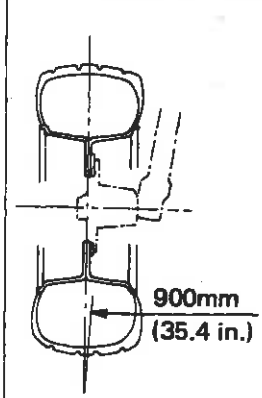
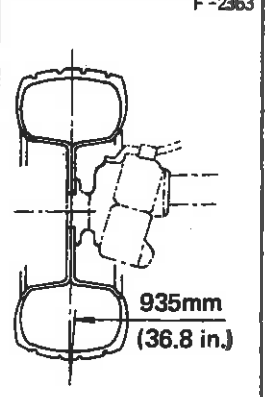
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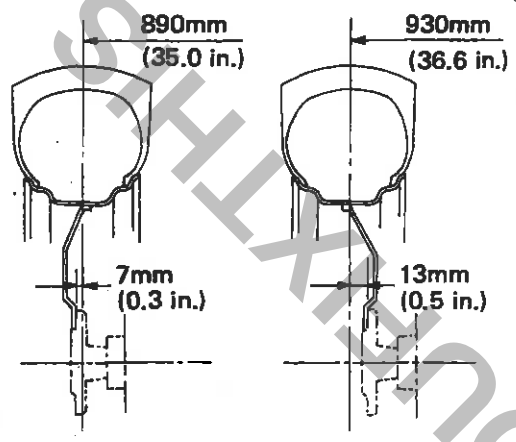
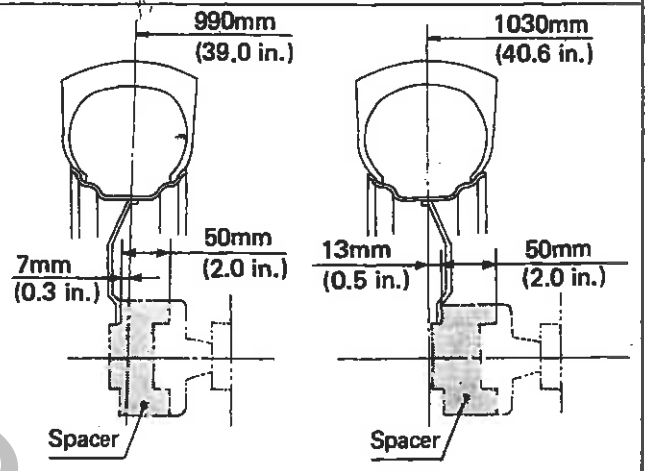
16. WIRING DIAGRAM

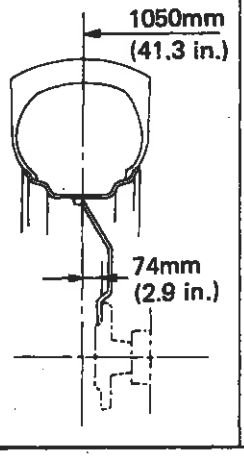
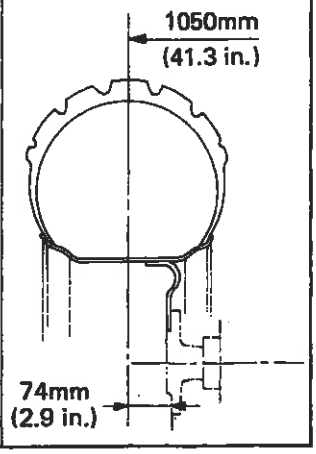


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7.1 TREAD

	4.00–12 Farm (2WD)	6.50–10 Farm (2WD)	6–12 Farm (4WD)	23x8.50–12 Turf (2WD)	24x8.5–12 Turf (4WD)
Front		F-2620 			F-2363 

	8.3–24 Farm (2WD/4WD)	8.3–24 Farm with spacer (optional) (2WD/4WD)
Rear	 F-2192	 F-2621

12.4–16 Farm (2WD/4WD)	13.6–16 Turf (2WD/4WD)
	

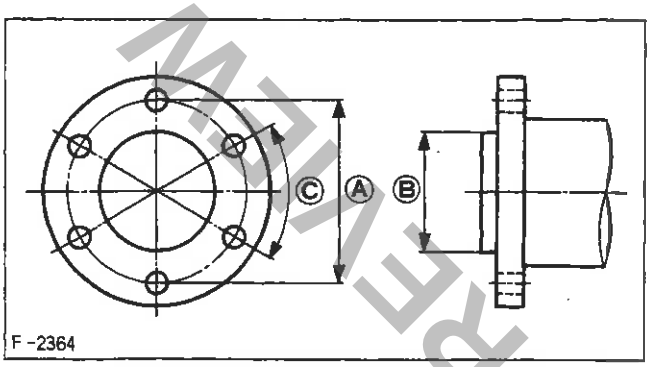
IMPORTANTS:

(1) Always attach tires as shown in the above drawings.

(2) If not attached as illustrated, transmission parts may be damaged.

Do not use tires larger than specified.

7.2 WHEEL HUB



F-2364

	Front wheel hub	Rear wheel hub
Bolt circle diameter Ⓐ	115mm (4.53in.)	150mm (5.91in.)
Number of bolts	6	6
Bolt specifications (mm)	M12 x Pitch 1.25	M16 x Pitch 1.5
Pilot bore diameter Ⓑ	69.5mm (2.74in.)	110mm (4.33in.)
Hole spacing Ⓒ	Equal 60 deg.	Equal 60 deg.

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7. WHEELS, TIRES AND BALLAST

CAUTIONS:

Never operate tractor with a loose rim, wheel, or axle.

(1) Any time bolts are loosened, retighten to specified torque.

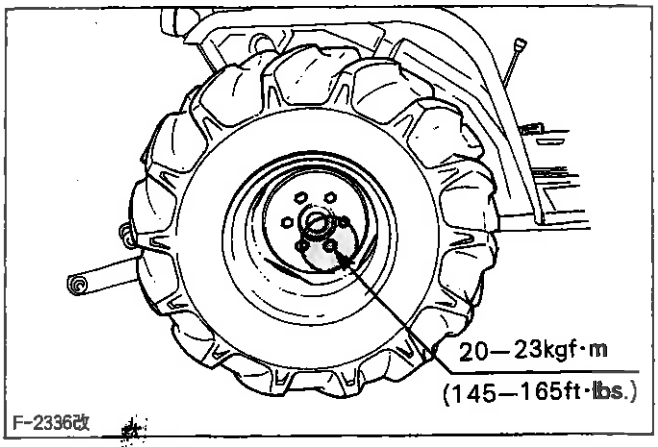
(2) Check all bolts frequently and keep them tight.

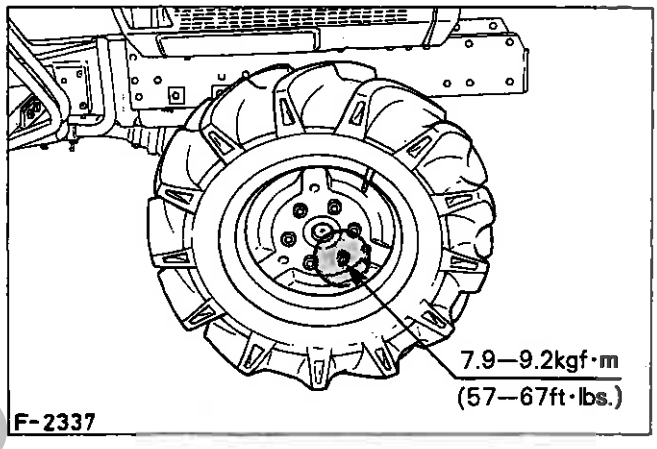
IMPORTANT:

- Follow same checking procedure when tractor is first used.

CAUTION:

- **When working on slopes or when working with trailer, set the wheel tread as wide as practical for the job for maximum stability.**





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12. TROUBLESHOOTING

12.1 ENGINE TROBLESHOOTING

■ 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.
Valve clearance is wrong	* Adjust valve clearance. See your KUBOTA dealer.
Leaking valves	* Grind valve.
Fuel injection timing is wrong	* 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.
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 wrong	* Adjust to proper pressure. See your KUBOTA dealer.

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