SAFE OPERATION

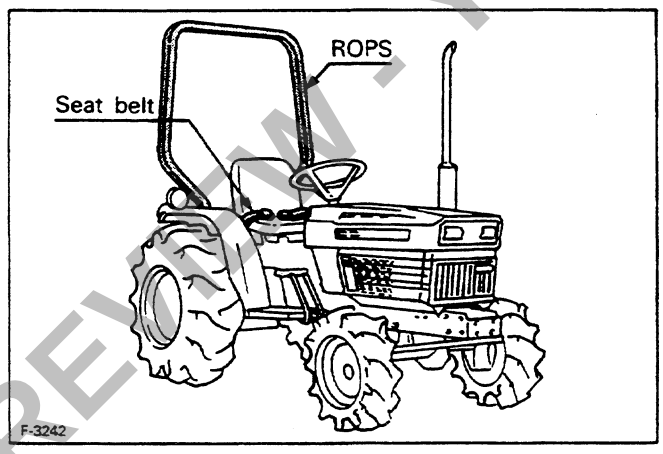
Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor. All operators, no matter how much experience they may have had,should read this and other related manuals before operating tractor or any implement attached to it. It is the owner's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

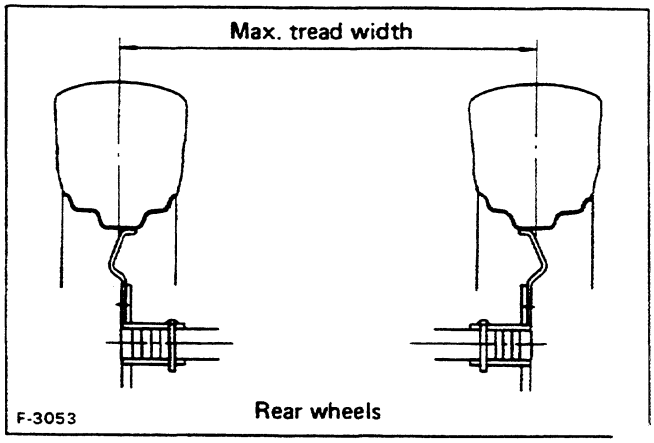
(9) Do not allow passengers or non-qualified operators on the tractor at any time. The operator must remain in the tractor seat throughout operation.

(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			B6200HSTE (2WD)			B6200HSTD (4WD)		
Engine gross power			11.2kW (15HP)*					
PTO power			9.3kW (12.5HP)*					
Engine	Model		D850					
	Type		Vertical, water-cooled, 4-cycle diesel					
	No. of cylinders		3					
	Bore and stroke		72mm x 70mm (2.8 in. x 2.7 in.)					
	Total displacement		855cm³ (52.2 cu.in.)					
	Rated revolution		41.7r/s (2500 rpm)					
	Fuel		Diesel fuel No. 2-D [No. 1 diesel fuel if temperature is below −10°C (15°F)]					
	Starter		Electric starter with battery, glow plug and decompression device, 12V, 0.8kW					
	Lubrication		Forced lubrication by trochoidal pump					
	Cooling		Water with pressurized radiator (natural circulation)					
	Battery		12V (45 Ah)					
Capacities	Fuel tank		20ℓ (5.3 U.S. gals.)					
	Engine crankcase		3.1ℓ (3.3 U.S. qts.)					
	Engine coolant		2.8ℓ (3.0 U.S. qts.)					
	Transmission case		13.5ℓ (14.3 U.S. qts.)					
	Steering gear box		0.2ℓ (0.2 U.S. qt.)					
	Front axle diff. case		—			0.5ℓ (0.5 U.S. qt.)		
	Front axle gear case		—			0.15ℓ (0.15 U.S. qt.)		
Tires		Front	Farm 4.50–10	Farm 5.00–10	Turf 18x9.50–8	Farm 5–12	Farm 6–12 B	Turf 20.5x8.00–10
		Rear	7–16	8–16	29x12.00–15	7–16	8–16	29x12.00–15
Dimensions	Overall length	mm (in.)	2590 (102.0)	2590 (102.0)	2590 (102.0)	2590 (102.0)	2590 (102.0)	2590 (102.0)
	Overall width	mm (in.)	910 (35.8) 960 (37.8) 1080 (42.5)	990 (39.0) 1110 (43.7)	1140 (44.9)	940 (37.0) 960 (37.8) 1080 (42.5)	980 (38.6) 1110 (43.7)	1140 (44.9)
	Overall height with muffler	mm (in.)	1795 (70.7)	1815 (71.5)	1785 (70.3)	1810 (71.3)	1825 (71.9)	1800 (70.9)
	Wheel base	mm (in.)	1470 (57.9)	1470 (57.9)	1470 (57.9)	1470 (57.9)	1470 (57.9)	1470 (57.9)
	Min. ground clearance	mm (in.)	230 (9.1)	255 (10.0)	240 (9.4)	230 (9.1)	240 (9.4)	215 (8.3)
	Treads	Front mm (in.)	710 (28.0)	710 (28.0)	850 (33.5)	785 (30.9)	795 (31.3)	825 (32.5)
		Rear mm (in.)	740 (29.1) 790 (31.1) 910 (35.8)	790 (31.1) 910 (35.8)	840 (33.1)	740 (29.1) 790 (31.1) 910 (35.8)	790 (31.1) 910 (35.8)	840 (33.1)
Weight		kg (lbs.)	525 (1158)	535 (1180)	545 (1202)	580 (1279)	595 (1312)	600 (1323)
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 (9.0 and 14.3 r/s at 41.9 engine r/s) (540 and 858 rpm at 2517 engine rpm)					
		Mid PTO	USA No.5 (KUBOTA 10 tooth) Involute spline 2 speeds (25.8 and 40.9 r/s at 41.9 engine r/s) (1546 and 2455 rpm at 2517 engine rpm)					
Clutch			Dry single plate					
Steering			Ball screw type					
Transmission			Main-hydrostatic transmission, High-Low gear shift (2 forward, 2 reverse)					
Min. turning radius		m (feet)	2.1 (6.9)			2.3 (7.5)		
Brake			Internal expanding type, right and left independent with interlocking device					
Differential			Bevel gear					

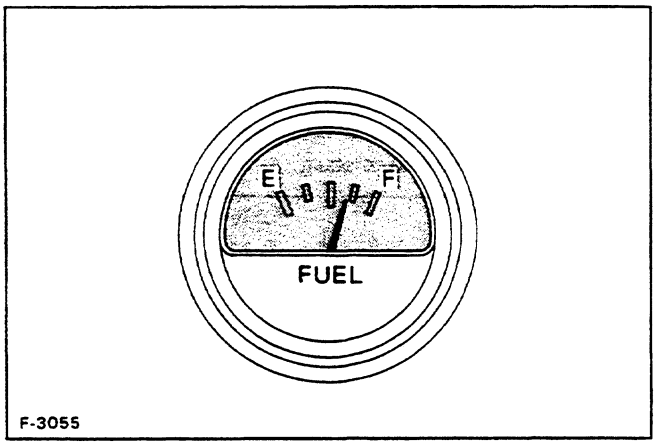
Note: *Manufacturer's estimate

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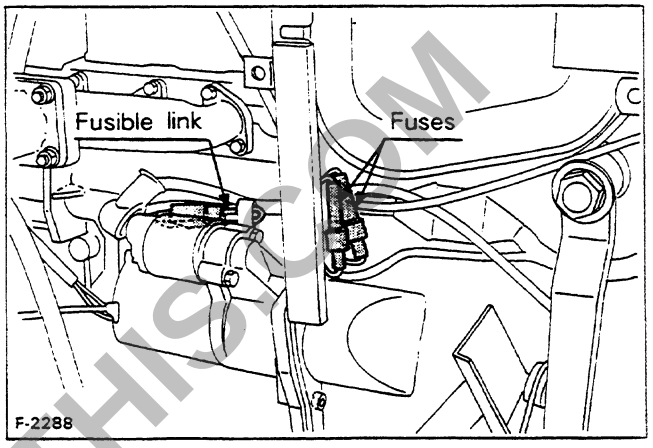
■ Fuel gauge

When the key switch is on, the fuel gauge indicates the fuel level.

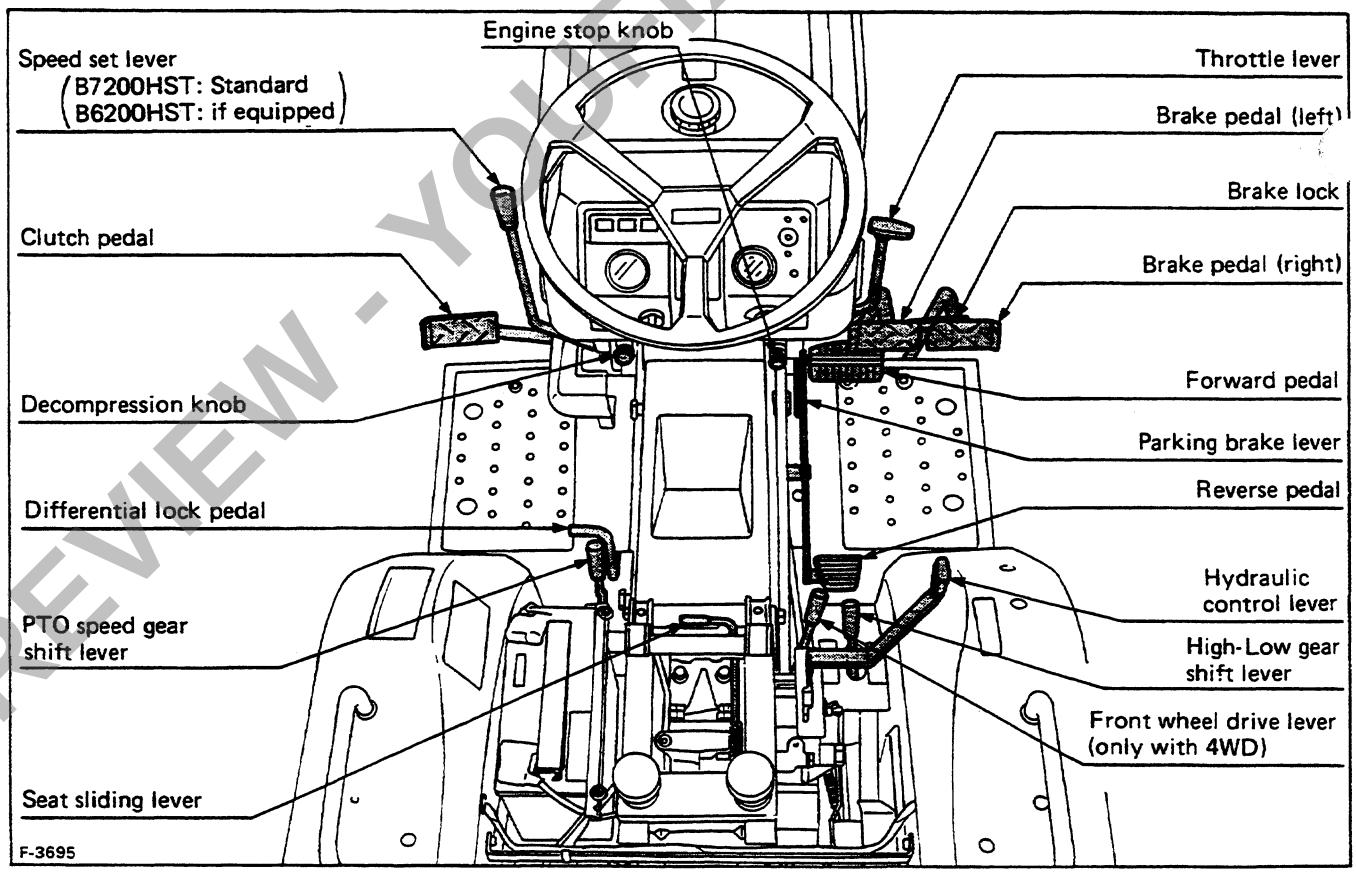


■ Fuses

Fuse	5 ampere
	10 ampere
Fusible link	200 ampere



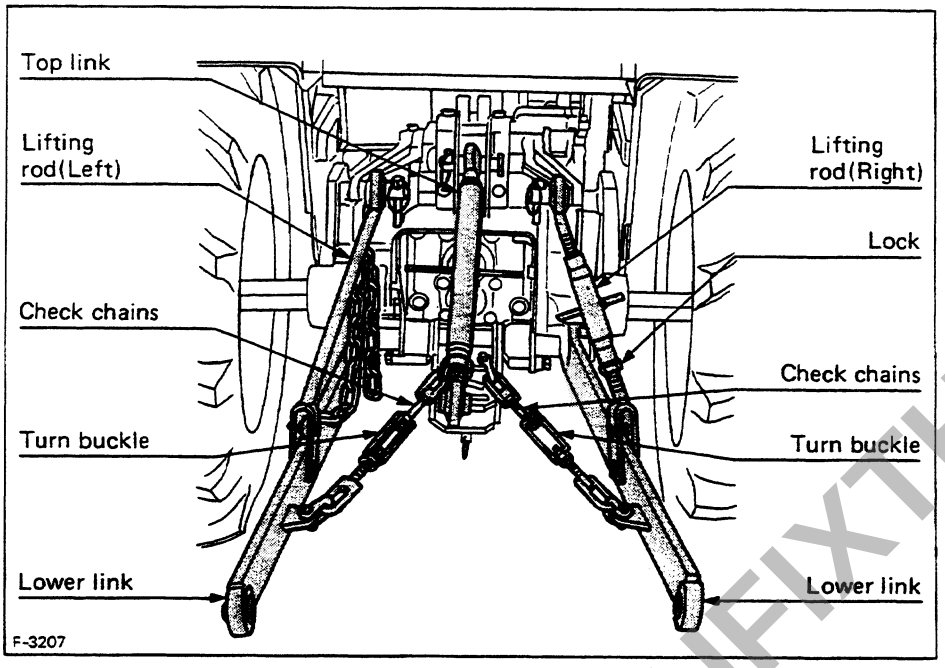
5.2 CONTROLS

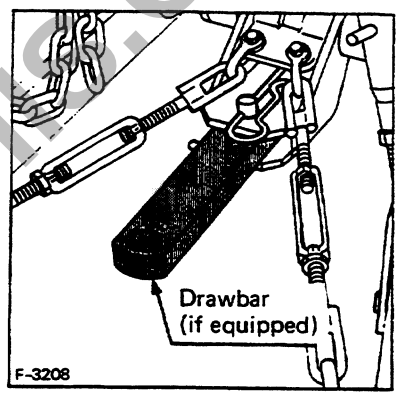


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6. THREE-POINT HITCH & DRAWBAR



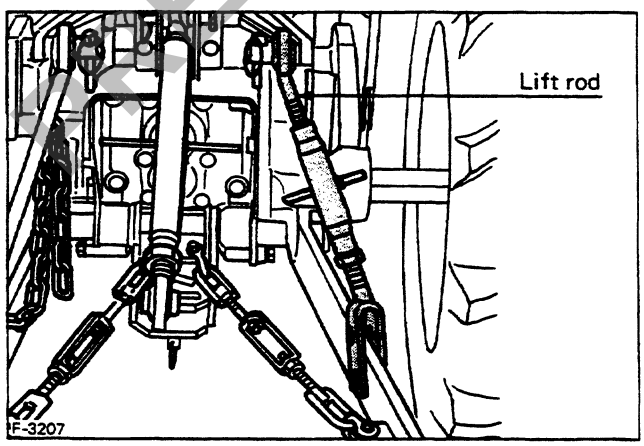


■ Adjustment of Top Link

(1) Adjust the angle of the implement to the desired position by shortening or lengthening the Top Link.
(2) The proper length of the top-link varies according to the type of implement being used.

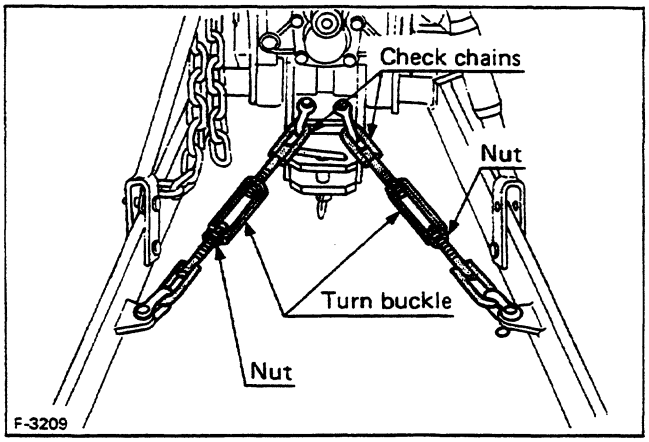
■ Adjustment of Lifting Rod

(1) Level a 3-point mounted implement from side to side by turning the lifting rod lever to shorten or lengthen the adjustable lifting rod.
(2) After the adjustment is completed, secure with the lock.
(3) Correct positioning of the lifting rod to the lower link is shown below. Positioning varies according to the type of implement being used.



■ Adjustment of Check Chains

Adjust the turn-buckle to control horizontal sway of the implement.



Type of implement	Chain adjustment
Plow, furrower, sub-soiler, cultivator, ditcher	Loosen until the implement can be moved 50~60 mm (2~2.5 in.) horizontally.
Rotary, mower, hayrake, tedder, ridger	Tighten

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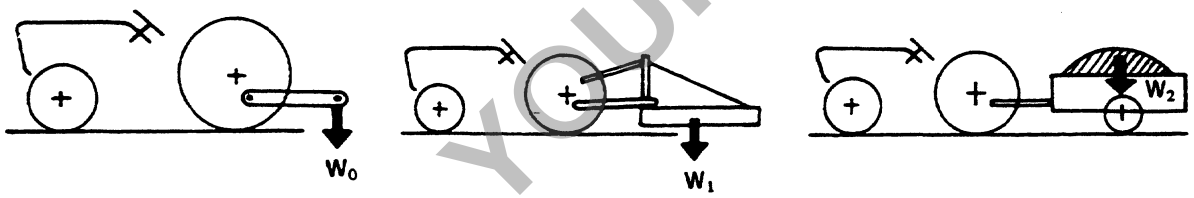
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3. SPECIFICATIONS OF IMPLEMENT LIMITATIONS

The Kubota tractor has been thoroughly tested for proper performance with implements sold or approved by us. Use with implements 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.]

Model		B6200HST	B7200HST
Operating condition		General control operation (Flat ground and slope condition)	
Lower link end max. loading weight W_0		Below 180 kg (400 lbs.)	
Actual figures	Implement weight W_1	As in the following list	
	Trailer loading weight W_2	Below 500 kg (1100 lbs.) (without brake) Below 1000 kg (2200 lbs.) (with brake)	

Lower link end max. loading weight..... The max. allowable load which can be put on the lower link end: W_0
Implement weight..... The implement's weight which can be put on the lower link: W_1
Trailer loading weight ..... The max. loading weight for trailer (without trailer's weight): W_2



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Liquid weight per tire (75 Percent filled)

Tire sizes	7–16	8–16	9.5–16
Slush free at –10°C(13°F) Solid at –30°C(–23°F) [Approx. 1 kg (2 lbs.) $CaCl_2$ per 4ℓ (1 gal) of water]	26 kg (58 lbs.)	35 kg (78 lbs.)	54 kg (119 lbs.)
Slush free at –24°C (–12°F) Solid at –47°C (–52°F) [Approx. 1.5 kg (3.5 lbs.) $CaCl_2$ per 4ℓ (1 gal) of water]	28 kg (61 lbs.)	37 kg (82 lbs.)	57 kg (125 lbs.)
Slush free at –47°C (–52°F) Solid at –52°C (–62°F) [Approx. 2.25 kg (5 lbs.) $CaCl_2$ per 4ℓ (1 gal) of water]	29 kg (64 lbs.)	39 kg (86 lbs.)	60 kg (132 lbs.)

IMPORTANT:

- Do not fill the following tires with water.

  4.50–10 5–12 18x9.50–8 29x12.00–15
  5.00–10 6–12 20.5x8.00–10 31x13.5–15

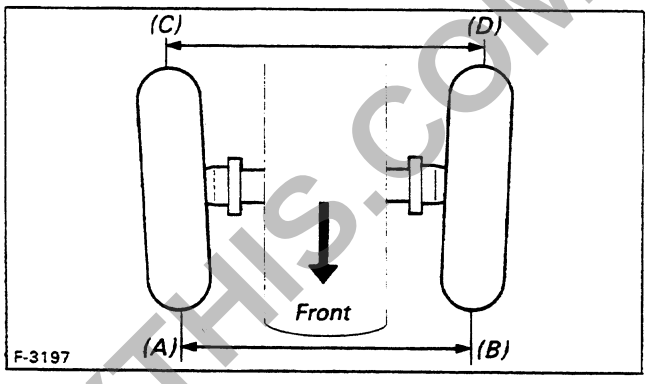
■ Inflation Pressure

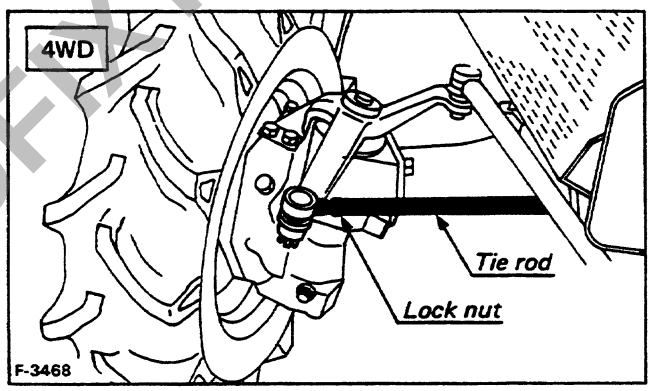
Front	4.50–10, 4PR	140kPa (1.4kgf/cm^2, 20psi)
	5.00–10, 4PR	270kPa (2.8kgf/cm^2, 40psi)
	5–12, 4PR	220kPa (2.2kgf/cm^2, 31psi)
	6–12, 4PR	200kPa (2.0kgf/cm^2, 28psi)
	18x9.50–8, 4PR	140kPa (1.4kgf/cm^2, 20psi)
	20.5x8.00–10,4PR	160kPa (1.6kgf/cm^2, 23psi)
Rear	7–16, 4PR	180kPa (1.8kgf/cm^2, 26psi)
	8–16, 4PR	160kPa (1.6kgf/cm^2, 23psi)
	9.5–16, 4PR	140kPa (1.4kgf/cm^2, 20psi)
	29x12.00–15, 4PR	140kPa (1.4kgf/cm^2, 20psi)
	31x13.5–15, 4PR	140kPa (1.4kgf/cm^2, 20psi)

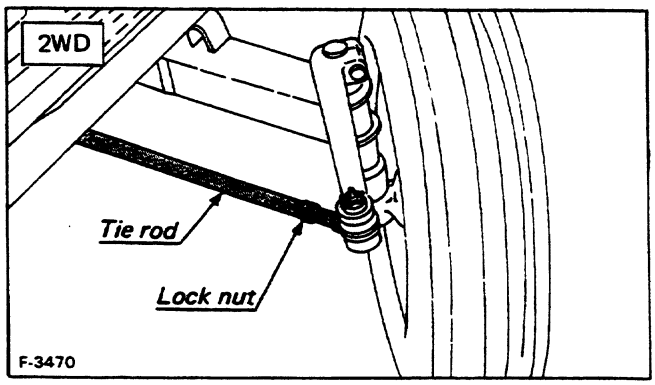
7.5 TOE-IN

Toe-in equals distances (C)(D)–(A)(B), or 0 to 5 mm (0 to 0.2 in.).

To adjust toe-in loosen the lock nut and adjust the length of the tie rod until the proper toe-in measurement is obtained. Retighten the lock nut.







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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. * See your KUBOTA dealer.
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.

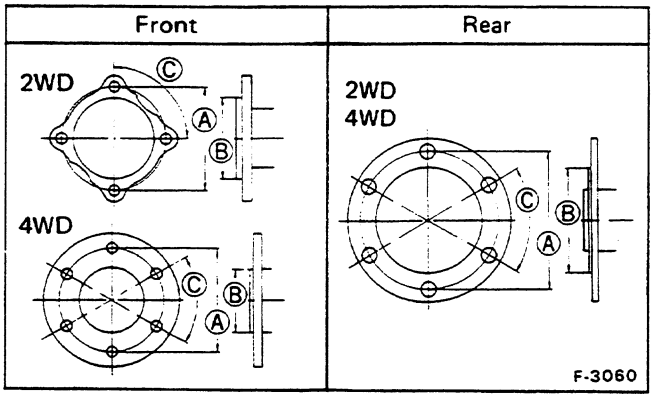
■ When output is insufficient

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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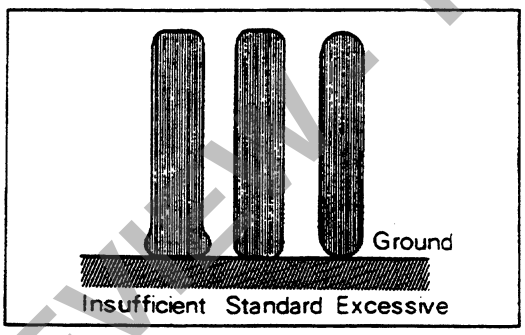
7.2 WHEEL HUB



	Front wheel hub		Rear wheel hub
	2WD	4WD	2WD/4WD
Bolt circle diameter Ⓐ	115 mm (4.53 in)	115 mm (4.53 in)	152 mm (6.0 in)
Number of bolts	4	6	6
Bolt specifications(mm)	M12 x Pitch 1.25	M12 x Pitch 1.25	M14 x Pitch 1.5
Pilot bore diameter Ⓑ	90 mm (3.54 in)	69.5 mm (2.74 in)	114 mm (4.49 in)
Hole spacing Ⓒ	Equal 90 deg.	Equal 60 deg.	Equal 60 deg.

7.3 TIRES

Though the tire pressure is factory-set to the prescribed level, it naturally drops slowly in the course of time. Thus, check it everyday and inflate as necessary.



CAUTION:

- **Do not attempt to mount a tire. This should be done by a qualified person with the proper equipment.**

  Qualified persons with the proper tire mounting equipment should recognize the following warning.

WARNING:

- **Never exceed the pressure shown below (maximum limit) when attempting to seat a bead. If beads have not been seated by the time the pressure reaches maximum limit, deflate the assembly, reposition the tire on the rim, relubricate and reinflate. After seating the bead, adjust inflation pressure as recommended in the inflation pressure chart.**

Maximum Limit of Inflation Pressure (In seating a bead)

Farm tire	4.50–10, 2PR 5.00–10, 4PR 5–12, 4PR 6–12, 4PR 7–16, 4PR 8–16, 4PR 9.5–16, 4PR	345kPa (3.5 kgf/cm², 50psi)
Turf tire	18x9.50–8, 4PR 20.5x8.00–10, 4PR 29x12.00–15, 4PR 31x13.5–15, 4PR	296kPa (3.0 kgf/cm², 43psi)

7.4 BALLAST

(1) Selecting Front Ballast

Add weight to front end if needed for stability. Heavy pulling and heavy rear mounted implements tend to lift front wheels. Add enough ballast to maintain steering control and prevent tip over.

Remove weight where it is no longer needed. Front weights are available from your Kubota Dealer.

Your dealer can help you decide how much is required for your particular application.

CAUTION:

- **Additional ballast may be needed for transporting heavy integral implements. When implement is raised, drive slowly over rough ground, regardless of how much ballast is used.**

(2) Select rear ballast carefully.

Add weight to rear wheels if needed to improve traction or for stability. Amount of rear ballast should be matched to job and ballast should be removed when it is not needed. Rear wheel weights are available or liquid may be added to the tires. Consult your Kubota Dealer for the correct ballasting necessary for your particular application.

(2-1) Using liquid weight in rear tires.

Water and calcium chloride solution provides, safe economical ballast. Used properly, it will not damage tires, tubes or rims. The addition of calcium chloride is recommended to prevent the water from freezing. Use of this method of weighting the wheels has the full approval of the tire companies. See your tire dealer for this service. Do not fill any tire more than 75% full (to valve stem level).

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