

SPECIFICATIONS

SPECIFICATION TABLE

Model			L3301			L3901			
			Manual Transmission		HST	Manual Transmission		HST	
			2WD	4WD	4WD	2WD	4WD	4WD	
PTO power*		kW (HP)	20.7 (27.7)		19.5 (26.2)	23.9 (32.1)		22.8 (30.6)	
Engine	Model		D1803-CR-E4						
	Type		Direct injection, Vertical, Water-Cooled 4 cycle diesel						
	Number of cylinders		3						
	Bore and stroke		mm (in.)		87 x 102.4 (3.4 x 4.0)				
	Total displacement		L (cu.in.)		1.826 (111.4)				
	Engine gross power*		kW (HP)		24.6 (33.0)		28.0 (37.5)		
	Engine net power*		kW (HP)		23.4 (31.4)		27.1 (36.3)		
	Rated revolution		rps (rpm)		45.0 (2700)				
	Low idling revolution		rps (rpm)		15.0 (900)				
	Maximum torque		N-m (ft-lbs.)		101.7 (75.0)		115.8 (85.4)		
Battery			[75D23R]12V. RC : 110 min, CCA : 580 A						
Capacities	Fuel tank		L (U.S.gals.)		42.0 (11.0)				
	Engine crankcase (with filter)		L (U.S.qts.)		6.7 (7.1)				
	Engine coolant		L (U.S.qts.)		6.0 (6.3)				
	Transmission case		L (U.S.gals.)		28.0 (7.4)	28.5 (7.5)	23.5 (6.2)	28.0 (7.4)	28.5 (7.5)
Dimensions	Overall length (without 3p)		mm (in.)	2810 (110.6)	2740 (107.9)		2810 (110.6)	2740 (107.9)	
	Overall width (min.tread)		mm (in.)	1400 (55.1)					
	Overall height (with ROPS)		mm (in.)	2330 (91.7)					
	Overall height (Top of steering wheel)		mm (in.)	1475 (58.1)					
	Wheel base		mm (in.)	1610 (63.3)					
	Min. ground clearance		mm (in.)	345 (13.6)	340 (13.4)		345 (13.6)	340 (13.4)	
	Tread	Front	mm (in.)	1050 (41.3)	1095 (43.1)		1050 (41.3)	1095 (43.1)	
Rear		mm (in.)	1115 (43.8), 1195 (47.1), 1290 (50.8)						
Weight (with ROPS)		kg (lbs.)	1160 (2557)	1240 (2734)	1260 (2778)	1175 (2590)	1255 (2767)	1260 (2778)	
Traveling system	Tires	AG Front	5.00 - 15		7.2 - 16		5.00 - 15	7.2 - 16	
		AG Rear	11.2 - 24						
	Indust. (option)	Front	N / A		27 x 8.50 - 15		N / A	27 x 8.50 - 15	
		Rear	N / A		15 - 19.5R4		N / A	15 - 19.5R4	
	Clutch		Dry type Single stage			Dry type Dual stage		Dry type Single stage	
	Steering		Integral type power steering						
	Transmission		Gear shift, 8 forward and 8 reverse		Hydrostatic transmission, 3 range speed	Gear shift, 8 forward and 8 reverse		Hydrostatic transmission, 3 range speed	
	Brake		Wet disk type						
	Min. turning radius (with brake)		m (feet)	2.4 (7.9)	2.5 (8.2)		2.4 (7.9)	2.5 (8.2)	

4 SPECIFICATIONS

Model				L3301		L3901	
				Manual Transmission		HST	
				2WD	4WD	2WD	4WD
Hydraulic unit	Hydraulic control system			Position control			
	Pump capacity (main)		L / min (gal / min)	23.9 (6.3)			
	Pump capacity (PS)		L / min (gal / min)	14.5 (3.8)			
	3 point hitch			Category 1			
	Max. lift force	At lift points	kg (lbs.)	906 (1998)			
		24 in. behind lift points	kg (lbs.)	651 (1435)			
PTO	System pressure		MPa (kgf / cm ²) [psi]	16.2 (165) [2349]			
	Rear PTO	PTO shaft size		SAE 1-3 / 8, 6-splines			
		Type		Transmission driven with overrunning	Live-continuous running		
	PTO / Engine speed		rpm	540 / 2430	540 / 2580	540 / 2425	540 / 2580

NOTE: *Manufacturer's estimate The company reserves the right to change the specifications without notice.

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 _o
	Front		Rear	
	2WD	4WD		
L3301 L3901	1050 mm (41.3 in.)	1095 mm (43.1 in.)	1290 mm (50.8 in.)	900 kg (1985 lbs.)

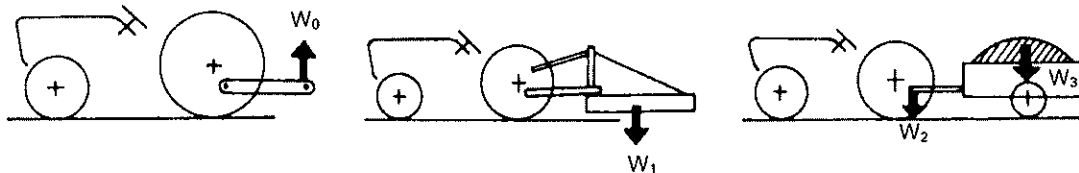
	Actual figures		
	Implement weight W_1 and/or size	Max. Drawbar Load W_2	Trailer loading weight W_3 Max. capacity
L3301 L3901	As in the following list (Shown on the next page)	330 kg (730 lbs.)	1000 kg (2200 lbs.)

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



NOTE :

- Implement size may vary depending on soil operating conditions.
- Strictly follow the instructions outlined in the operator's manual of the mounted or trailed machinery or trailer, and do not operate the combination tractor - machine or tractor - trailer unless all instructions have been followed.
- Forestry Application
Following hazards exist;
 - (a) toppling trees, primarily in case a rear-mounted tree grab-crane is mounted at the rear of the tractor;
 - (b) penetrating objects in the operator's enclosure, primarily in case a winch is mounted at the rear of the tractor.
 Optional equipments such as OPS (Operator Protective Structure), FOPS (Falling Object Protective Structure), etc. to deal with these hazards and other related hazards are not available for this tractor. Without such optional equipment use is limited to tractor specific applications like transport and stationary work.

No.	Implement		Remarks	L3301	L3901
1	Trailer		Max. load capacity kg(lbs.)	1000 (2200)	
			Max. drawbar load kg (lbs.)	330 (730)	
2	Mower	Rotary-Cutter	Max. cutting width mm (in.)	1829 (72)	
			Max. weight kg (lbs.)	350 (770)	
		Flail Mower	Max. cutting width mm (in.)	1270 (50)	
			Max. weight kg (lbs.)	350 (770)	
		Sickle Bar	Max. cutting width mm (in.)	1829 (72)	
			Max. weight kg (lbs.)	400 (880)	
3	Sprayer	Rear mounted	Max. tank capacity L (gals.)	300 (80)	
		Pull type	Max. tank capacity L (gals.)	800 (210)	
4	Rotary Tiller		Max. tilling width mm (in.)	1370 (54)	
5	Bottom Plow		Max. size	12 in. x 2, 16 in. x 1	
6	Disk harrow : Pull type		Max. harrowing width mm (in.)	1524 (60)	
			Max. weight kg (lbs.)	300 (660)	
7	Chisel Plow		Max. width mm (in.)	1829 (72)	
			Max. weight kg (lbs.)	350 (770)	
8	Broad Caster		Max. tank capacity L (gals.)	200 (53)	
			Max. weight kg (lbs.)	100 (220)	
9	Manure Spreader		Max. capacity kg (lbs.)	1000 (2200)	
10	Cultivator		Max. width mm (in.)	1524 (60)	
			Number of rows	1	
			Max. weight kg (lbs.)	250 (550)	
11	Front Blade		Max. cutting width mm (in.)	1829 (72)	
			Max. oil pressure MPa (psi)	15.9 (2311)	
			Sub frame	Necessary	
12	Rear Blade		Max. cutting width mm (in.)	1829 (72)	
			Max. oil pressure MPa (psi)	15.9 (2311)	
13	Front-end Loader		Max lifting capacity kg (lbs.)	460 (1014)	
			Max. oil pressure MPa (psi)	15.9 (2311)	
			Sub frame	Not necessary	
14	Box Blade		Max. cutting width mm (in.)	1321 (52)	
			Max. weight kg (lbs.)	315 (694)	
15	Backhoe		Max. digging depth mm (in.)	2288 (90)	
			Max. weight kg (lbs.)	420 (926)	
			Sub frame	Necessary	
16	Snow Blade		Max. width mm (in.)	1524 (60)	
			Max. weight kg (lbs.)	300 (660)	
17	Snow Blower		Max. working width mm (in.)	1524 (60)	
			Max. weight kg (lbs.)	250 (550)	

NOTE :

- Implement size may vary depending on soil operating conditions.

OPERATING THE ENGINE



WARNING

To avoid personal injury or death:

- Read and understand "Safe Operation" in the front of this manual.
- Read and understand 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 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 10 seconds.

EXHAUST AFTERTREATMENT DEVICES



WARNING

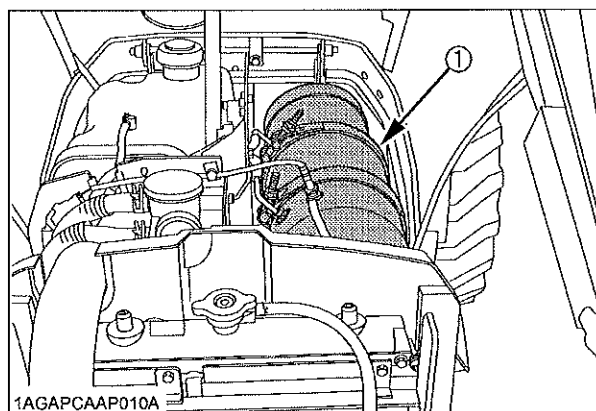
To avoid personal injury or death:

- During Diesel Particulate Filter (DPF) regenerating operations, exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite or melt common materials.
- Keep tractor away from people, animals or structures which may be susceptible to harm or damage from hot exhaust gases.
- During regeneration, white exhaust gases may be visible. Do not allow regeneration in a non ventilated garage or confined area.
- During regeneration, do not leave the tractor.

■ Diesel Particulate Filter (DPF) Muffler

This tractor is equipped with an engine with a DPF (Diesel Particulate Filter) muffler which serves to reduce hydrocarbons, carbon monoxide and other gases, all of which are contained in diesel engine emissions, to harmless carbon dioxide and water. The DPF also traps PM (particulate matter).

Please handle exhaust aftertreatment devices correctly and in an environmentally responsible manner.



(1) Diesel Particulate Filter (DPF)

■ Handling Points

When a specific amount of PM (particulate matter) has accumulated in the DPF muffler, it is necessary to refresh the DPF muffler by burning the PM inside it. This burning off work is called "Regeneration".

To extend operating time to reach this regeneration, and to avoid DPF muffler trouble, make sure to observe the following handling matters.

◆ Fuel

Be sure to use Ultra Low Sulfur Fuel (S15).

IMPORTANT :

- Use of diesel fuel other than Ultra Low Sulfur Fuel may adversely affect the engine and DPF performance.
Use of fuels other than Ultra Low Sulfur Fuel (S15) may not meet regulations for your region.

◆ Engine oil

Use DPF-compatible oil (CJ-4) for the engine.

IMPORTANT :

- If any engine oil other than CJ-4 is used, the DPF may become clogged earlier than expected and the fuel economy may drop.

◆ Prohibition of unnecessary idling operation

Generally, the lower the engine speed, the lower the exhaust gas temperature is, so the PM contained in exhaust gas will not be burnt, and begins to accumulate. Therefore, don't idle unnecessarily.

◆ Regeneration

When there is "Regeneration" instruction sign by lamp or buzzer, immediately perform the required procedure for regeneration.

IMPORTANT :

- Interrupting the regeneration cycle or continued operation by ignoring the warning signs may cause DPF and engine damage.

■ DPF Regeneration Process

DPF regeneration process can be performed by choosing from "Auto Regeneration" or "Regeneration inhibit" mode according to your job conditions. For jobs not affected by hot gases emitted during regeneration, the "Auto Regeneration" is advisable.

◆ Auto Regeneration Mode;

When starting the engine (switch operation is unnecessary), the "Auto Regeneration" mode is automatically activated.

With the auto regeneration mode on, when a specific amount of PM has accumulated, and the regeneration conditions are satisfied (See the "Tips on Diesel Particulate Filter [DPF] Regeneration"), the DPF will be automatically regenerated whether the tractor is in motion or parked.

By this way, work efficiency is improved. For details of auto regeneration, refer to "Operating Procedure for Auto Regeneration Mode" section.

◆ Regeneration Inhibit Mode;

After starting the engine, if the "DPF INHIBIT switch" is pressed to turn on the switch lamp, the "Regeneration inhibit" mode will be activated.

With "Regeneration Inhibit" mode on, the PM which has accumulated inside the DPF will not be burnt, unless the operator performs the regeneration work manually.

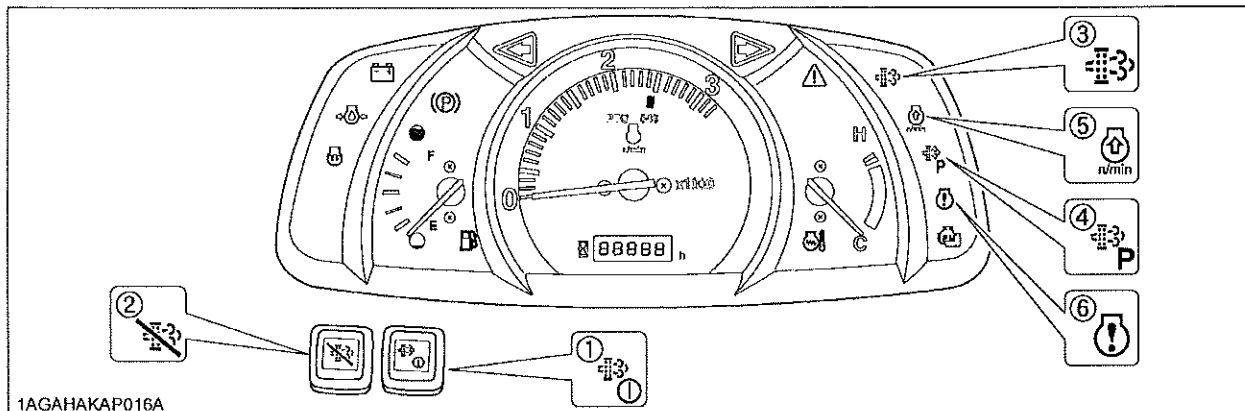
The "Regeneration Inhibit" mode is effective for work in poorly ventilated work spaces.

For details of regeneration prohibition, refer to "Operating Procedure for Regeneration Inhibit Mode" section.

NOTE :

- If stop the engine once, the "Auto Regeneration" mode will be activated.

Operating Procedure for Auto Regeneration Mode



- (1) Parked regeneration switch (3) Regeneration indicator (5) Engine RPM increase indicator
(2) DPF INHIBIT switch (4) Parked regeneration indicator (6) Engine warning indicator

■Regeneration Operating Procedure

1. Start the engine.
(Make sure that the DPF INHIBIT switch lamp  is "OFF".)

Switch lamp OFF: Auto Regeneration Mode activated.

Switch lamp ON: Regeneration Inhibit Mode activated.

NOTE :

- When the engine is started, the "Auto Regeneration" mode is automatically activated.
- "Regeneration Inhibit" mode is activated, when the DPF INHIBIT switch is pushed after the engine is started.

2. When the regeneration indicator  starts flashing:

A specific amount of PM has built up in the DPF.

Continue to operate the tractor, and the regeneration process will begin automatically, make sure the working place is in a safe area as DPF and exhaust temperature will rise.

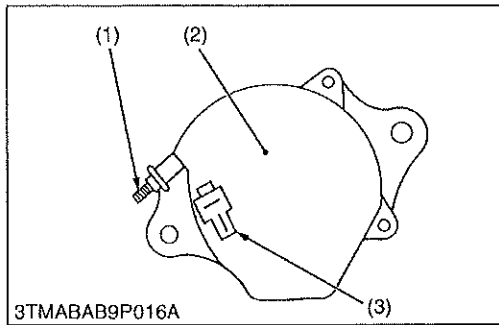
3. When the engine rpm increase indicator  starts flashing:

Keep on working and increase the engine rpm until the indicator turns "OFF".

NOTE :

- Even if the Auto Regeneration Mode is selected, DPF regeneration may not begin because system requirements have not been satisfied.
- The engine rpm increase indicator is used as a guide to satisfy the regeneration conditions. If the engine load is too heavy, the engine rpm increase indicator may continue to flash, even though regeneration system conditions are satisfied and regeneration may begin automatically. (See the "Tips on Diesel Particulate Filter [DPF] Regeneration")

[9] CHARGING SYSTEM

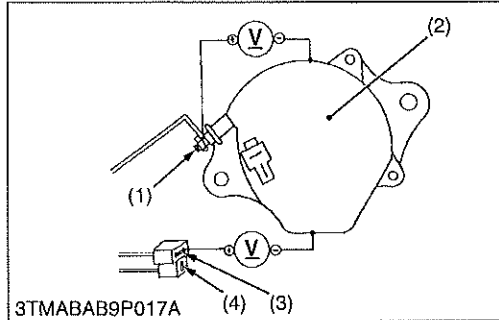


Alternator

1. Disconnect the 2P connector (3) from alternator after turning the key switch "OFF".
2. Perform the following checkings.

- | | |
|----------------|------------------|
| (1) B Terminal | (3) 2P Connector |
| (2) Alternator | |

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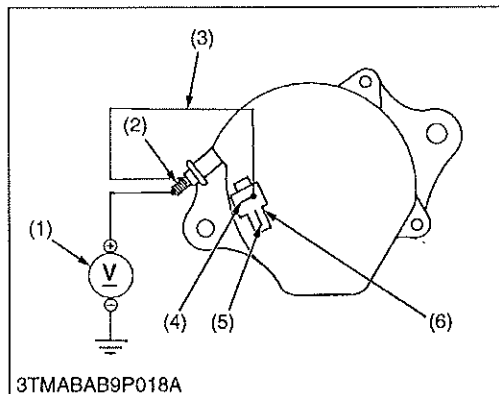
Connector Voltage

1. Turn the key switch "OFF". Measure the voltage between the B terminal (1) and the chassis.
2. Turn the key switch "ON". Measure the voltage between the IG terminal (3) and the chassis.

Voltage (Key switch at OFF)	B terminal – Chassis	Approx. battery voltage
Voltage (Key switch at ON)	IG terminal – Chassis	Approx. battery voltage

- | | |
|----------------|-----------------|
| (1) B Terminal | (3) IG Terminal |
| (2) Alternator | (4) L Terminal |

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No-Load Test

1. Connect the 2P connector (6) to previous positions of the alternator after turning the key switch OFF.
2. Connect the jumper lead (3) between IG terminal (4) and B terminal (2).
3. Start the engine and then set at idling speed.
4. Disconnect the negative cable from the battery.
5. Measure the voltage between the B terminal (2) and the chassis.
6. If the measurement is less than the factory specifications, disassemble the alternator and check the IC regulator.

Voltage	Factory specification	More than 14 V
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(Reference)

- Once the engine started, the alternator temperature increases quickly up to an ambient temperature of 70 to 90 °C (158 to 194 °F). As the temperature goes higher than 50 °C (122 °F), the alternator voltage slowly decreases; at higher than 100 °C (212 °F), it decreases by about 1 V.

- | | |
|-----------------|------------------|
| (1) Voltmeter | (4) IG Terminal |
| (2) B Terminal | (5) L Terminal |
| (3) Jumper Lead | (6) 2P Connector |

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