

SPECIFICATIONS

SPECIFICATION TABLE

Model			MX4800			MX5200			MX5800	
			Manual Transmission		HST	Manual Transmission		HST	HST	
			4WD	2WD	4WD	4WD	2WD	4WD	4WD	
Engine	Model		V2403-CR-E4			V2403-CR-TE4				
	Type		4 cylinder in-line, Common Rail System, direct injection							
	Number of cylinders / Aspiration		4 / Natural			4 / Turbocharged				
	Total displacement	L (cu.in.)	2.434 (148.6)							
	Bore and stroke	mm (in.)	87 x 102.4 (3.4 x 4.0)							
	Rated revolution	rpm	2700							
	Low idling revolution	rpm	800 to 900							
	Net power*	kW (HP) / rpm	35.0 (46.9) / 2700		34.5 (46.3) / 2700	38.9 (52.1) / 2700		38.4 (51.5) / 2700	42.9 (57.5) / 2700	
	PTO power* (factory observed)	kW (HP) / rpm	30.2 (40.5) / 2700		29.1 (39.0) / 2700	34.1 (45.7) / 2700		33.0 (44.2) / 2700	37.4 (50.2) / 2700	
	Maximum torque	N-m (ft.-lbs.)	157.7 (116.3)			167.7 (123.7)			187.3 (138.2)	
	Battery capacity		12V, RC : 120 min, CCA : 600A							
Capacities	Fuel tank	L (U.S.gals.)	51 (13.5)							
	Engine crankcase (with filter)	L (U.S.qts.)	8.2 (8.7)			9.4 (9.9)				
	Engine coolant	L (U.S.qts.)	6.5 (6.9)							
	Transmission case	L (U.S.gals.)	44.0 (11.6)							
Dimensions	Overall length (without 3p)		mm (in.)	3180 (125.2)	3245 (127.8)	3180 (125.2)	3180 (125.2)	3245 (127.8)	3180 (125.2)	3180 (125.2)
	Overall width (min. tread)		mm (in.)	1770 (69.7)						
	Overall height (with ROPS)		mm (in.)	2430 (95.7)						
	Wheel base		mm (in.)	1895 (74.6)						
	Min. ground clearance		mm (in.)	385 (15.2)						
	Tread	Front	mm (in.)	1325 (52.2)	1280 (50.4) 1380 (54.3) 1480 (58.3) 1580 (62.2)	1325 (52.2)	1325 (52.2)	1280 (50.4) 1380 (54.3) 1480 (58.3) 1580 (62.2)	1325 (52.2)	1325 (52.2)
		Rear	mm (in.)	1375 (54.1), 1490 (58.7)						
Weight (with ROPS)		kg (lbs.)	1684 (3712)	1574 (3469)	1692 (3729)	1686 (3716)	1576 (3474)	1694 (3734)	1694 (3734)	

Model			MX4800			MX5200			MX5800
			Manual Transmission		HST	Manual Transmission		HST	HST
			4WD	2WD	4WD	4WD	2WD	4WD	4WD
Traveling system	Standard tire size	Front	9.5 - 16	7.5L - 15	9.5 - 16	9.5 - 16	7.5L - 15	9.5 - 16	9.5 - 16
		Rear	14.9 - 26						
	Clutch		Dry type single stage		---	Dry type single stage		---	---
	Steering		Hydrostatic 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	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)	2.7 (8.9)	2.7 (8.9)	2.6 (8.5)	2.7 (8.9)
Hydraulic unit	Hydraulic control system		Position control						
	Pump capacity		L (U.S.gals.) / min	35.8 (9.5)					
	3-point hitch		SAE Category 1, 2						
	Max. lift force	At lift points	kg (lbs.)	1300 (2870)					
		24in. behind lift points	kg (lbs.)	1050 (2310)					
	System pressure		MPa (kgf / cm ²) [psi]	17.7 (180) [2560]					
PTO	Rear PTO		SAE 1-3/8, 6-splines						
	PTO / Engine		rpm	540 / 2700					

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 0
	Front		Rear	
	2WD	4WD		
MX4800 MX5200	1530 mm (60.2 in.)	1325 mm (52.2 in.)	1490 mm (58.7 in.)	1300 kg (2870 lbs.)
MX5800	---	1325 mm (52.2 in.)	1490 mm (58.7 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
MX4800 MX5200 MX5800	As in the following list (Shown on the next page)	750 kg (1650 lbs.)	3500 kg (7700 lbs.)

Lower link end max. hydraulic lifting capacityW 0

Implement weightThe implement's weight which can be put on the lower link : W 1

Max. drawbar loadW 2

Trailer loading weightThe max. loading weight for trailer (without trailer's weight) : W 3

The diagrams show a tractor with a front wheel and a rear wheel. The first diagram shows a vertical arrow pointing up from the rear wheel labeled W0. The second diagram shows a vertical arrow pointing down from the rear wheel labeled W1. The third diagram shows a vertical arrow pointing down from the rear wheel labeled W2, and a shaded area on the rear wheel labeled W3.

1AGAIAZAP121B

- 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		MX4800 / MX5200 / MX5800
1	Trailer		Max. load capacity	kg (lbs.)	3500 (7700)
			Max. drawbar load	kg (lbs.)	750 (1650)
2	Mower	Rotary-Cutter	Max. cutting width	mm (in.)	2130 (84)
			Max. weight	kg (lbs.)	450 (1000)
		Flail Mower	Max. cutting width	mm (in.)	1830 (72)
			Max. weight	kg (lbs.)	500 (1100)
		Sickle Bar	Max. cutting width	mm (in.)	2130 (84)
			Max. weight	kg (lbs.)	500 (1100)
3	Sprayer	Rear mounted	Max. tank capacity	L (gals.)	500 (130)
		Pull type	Max. tank capacity	L (gals.)	2000 (529)
4	Rotary Tiller		Max. tilling width	mm (in.)	1830 (72)
5	Bottom Plow		Max. size		16 in. x 2
6	Disk harrow : Pull type		Max. harrowing width	mm (in.)	2130 (84)
			Max. weight	kg (lbs.)	400 (880)
7	Chisel Plow		Max. width	mm (in.)	1830 (72)
			Max. weight	kg (lbs.)	350 (770)
8	Broad Caster		Max. tank capacity	L (gals.)	300 (80)
			Max. weight	kg (lbs.)	100 (220)
9	Manure Spreader		Max. capacity	kg (lbs.)	2000 (4400)
10	Cultivator		Max. width	mm (in.)	2450 (96)
			Number of rows		4
			Max. weight	kg (lbs.)	400 (880)
11	Front Blade		Max. cutting width	mm (in.)	1830 (72)
			Max. oil pressure	MPa (psi)	17.2 (2490)
			Sub frame		Necessary
12	Rear Blade		Max. cutting width	mm (in.)	1830 (72)
			Max. oil pressure	MPa (psi)	17.2 (2490)
13	Front-end Loader		Max lifting capacity	kg (lbs.)	850 (1870)
			Max. oil pressure	MPa (psi)	17.2 (2490)
			Sub frame		Necessary
14	Box Blade		Max. cutting width	mm (in.)	1830 (72)
			Max. weight	kg (lbs.)	450 (1000)
15	Back Hoe		Max. digging depth	mm (in.)	2288 (90)
			Max. weight	kg (lbs.)	450 (990)
			Sub frame		Necessary
16	Snow Blade		Max. width	mm (in.)	1830 (72)
			Max. weight	kg (lbs.)	400 (880)

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 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.

EXHAUST AFTERTREATMENT DEVICES



WARNING

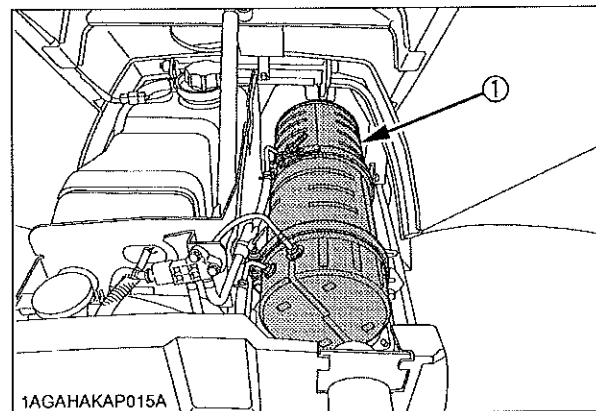
To avoid personal injury or death:

- 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

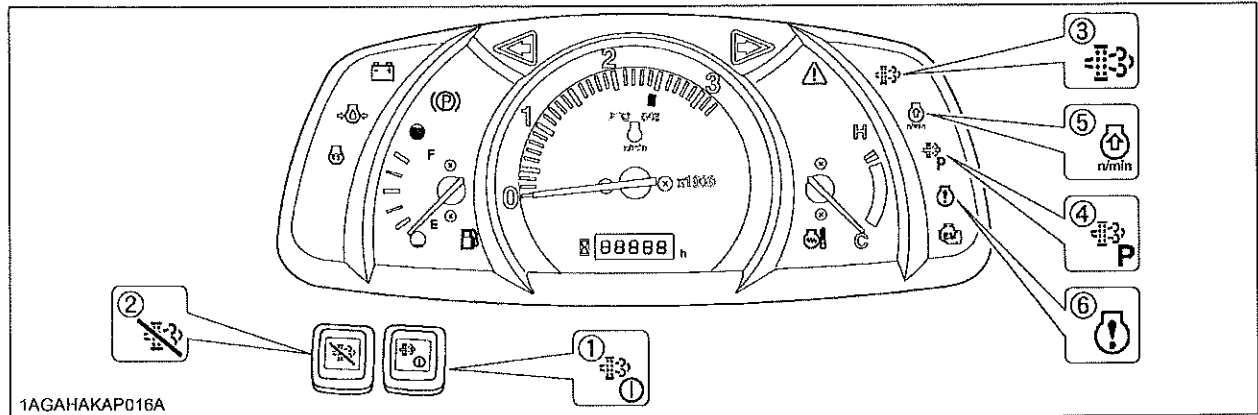
DPF regeneration process can be performed by choosing from "Auto Regeneration" or "Regeneration inhibit" mode according to your job conditions. For jobs not affected by hot gases emitted during regeneration, the "Auto Regeneration" is advisable.

- ◆ 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")

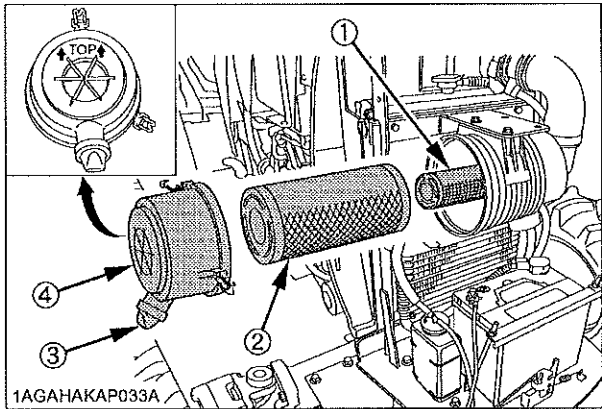
EVERY 100 HOURS

■Cleaning Air Cleaner Primary Element

1. Remove the air cleaner cover and primary element.
2. Clean the primary element:
 - (1) When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under 205 kPa (2.1 kgf/cm², 30 psi).
 - (2) When carbon or oil adheres to the element, soak the element in detergent for 15 minutes then wash it several times in water, rinse with clean water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if it is damaged or not.
3. Replace air cleaner primary element:
Once every 1000 hours or yearly, whichever comes first.

NOTE :

- Check to see if the evacuator valve is blocked with dust.



- (1) Secondary (safety) element
(2) Primary element
(3) Evacuator valve
(4) Cover

IMPORTANT :

- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit the cover with the arrow ↑ (on the rear of cover) upright. If the cover is improperly fitted, evacuator valve will not function and dust will adhere to the element.
- Do not touch the secondary element except in cases where replacing is required.
(See "Replacing Air Cleaner Secondary Element" in "EVERY 1000 HOURS or 1 YEAR" in "PERIODIC SERVICE" section.)

◆ Evacuator Valve

Open the evacuator valve once a week under ordinary conditions - or daily when used in a dusty place - to get rid of large particles of dust and dirt.

■Adjusting Fan Belt Tension



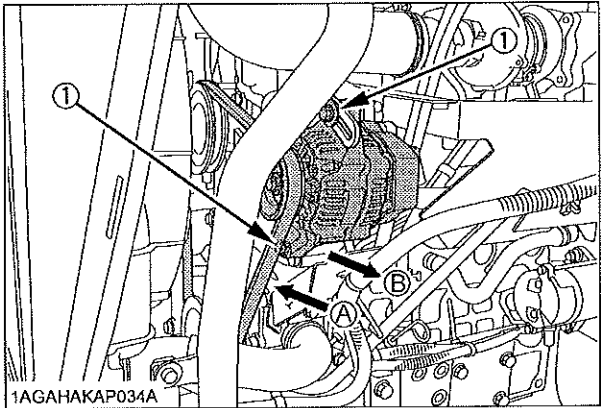
WARNING

To avoid personal injury or death:

- Be sure to stop the engine before checking belt tension.

Proper fan belt tension	A deflection is 12 mm (0.48 in.) when the belt is pressed (68.6 N [7 kgf, 15.4 lbs]) in the middle of the span.
-------------------------	---

1. Stop the engine and remove the key.
2. Apply moderate thumb pressure to belt between pulleys.
3. If tension is incorrect, loosen the alternator mounting bolts and, using a lever placed between the alternator and the engine block, pull the alternator out until the deflection of the belt falls within acceptable limits.
4. Replace fan belt if it is damaged.



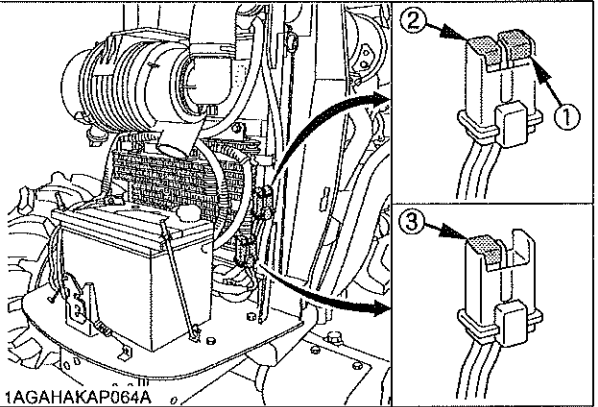
(1) Bolt

(A) Check the belt tension
(B) To tighten

FUSE No.	CAPACITY(A)	Protected circuit
(1)	5	Engine ECU (Ignition key)
(2)	5	Main ECU (Ignition key)
(3)	5	Meter panel (Ignition key)
(4)	5	Combination switch
(5)	15	Work light
(6)	5	Starter relay
(7)	20	Engine ECU (Battery)
(8)	5	Main ECU (Battery)
(9)	5	Meter panel (Battery)
(10)	10	Hazard
(11)	10	Head Light
(12)	5	Heater relay (if equipped)
(13)	10	Heater (Oil separator, IN 1) (if equipped)
(14)	10	Heater (Oil separator, IN 2) (if equipped)
(15)	10	Heater (Oil separator, OUT 1) (if equipped)
(16)	10	Heater (Oil separator, OUT 2) (if equipped)

■Replacing Slow-Blow Fuses

The slow-blow fuses are intended to protect the electrical cabling. If any of them has blown out, be sure to pinpoint the cause. Never use any substitute, use only a KUBOTA genuine part.



No.	Capacity (A)	Protected circuit
1	40	LOAD
2	60	BATTERY
3	40	Heater (Oil separator) (if equipped)

■Replacing Light Bulb

1. Head light and rear combination lights :
Take the bulb out of the light body and replace with a new one.
2. Other lights :
Detach the lens and replace the bulb.

Light	Capacity
Head lights	35W / 35W
Tail light	5W
Turn signal / Hazard light (Left)	21W
Turn signal / Hazard light (Right)	27W
Instrument panel light	1.7W