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English (U.S.A.)
Code No. TC650-1971-2

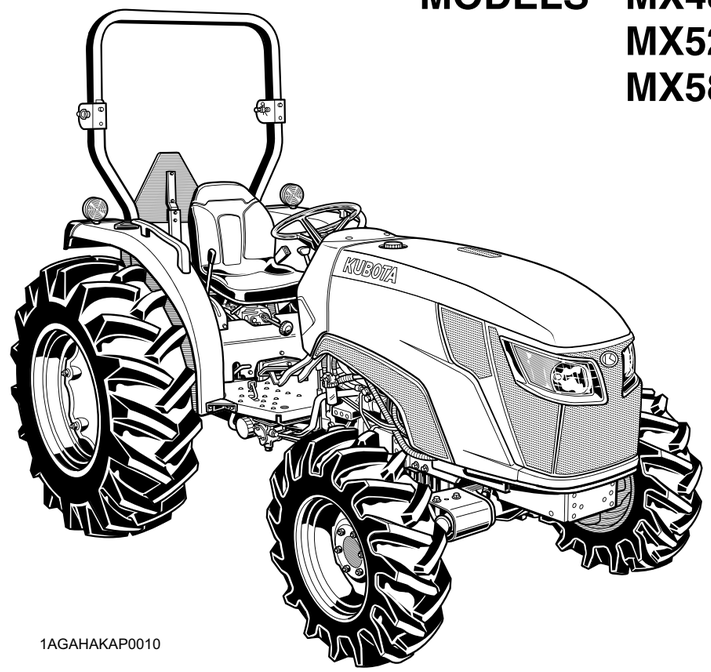
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MX4800.MX5200.MX5800

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS MX4800
MX5200
MX5800



1AGAHAKAP0010

READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

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Kubota

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⚠ SAFE OPERATION

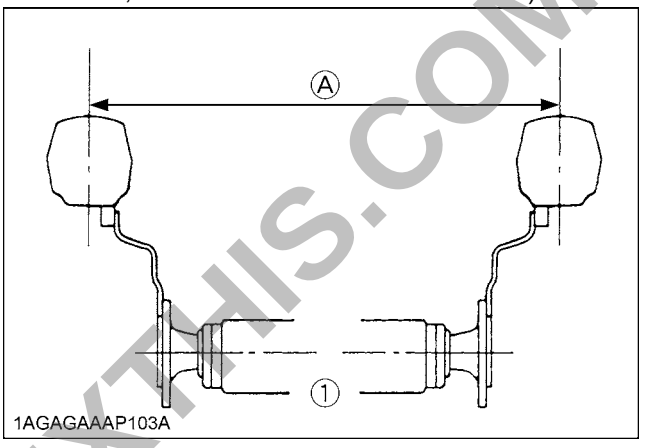
Careful operation is your best insurance against an accident.

Read and understand this manual carefully before operating the tractor.

All operators, no matter how much experience they may have, should read this and other related manuals before operating the tractor or any implement attached to it. It is the owner's 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 danger, warning and caution labels on the tractor.
3. Do not operate the tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
4. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
5. Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. hard hat, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
6. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
7. Check brakes, clutch, linkage pins and other mechanical parts for improper adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
8. Keep your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
9. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.
10. Use proper weights on the front or rear of the tractor to reduce the risk of upsets. When using the front loader, put an implement or ballast on the 3-point hitch to improve stability. Follow the safe operating procedures specified in the implement or attachment manual.
11. The narrower the tread, the greater the risk of a tractor upset. For maximum stability, adjust the wheels to the widest practical tread width for your application. (See "TIRES, WHEELS AND BALLAST" section.)



(1) Rear wheels *(A) Tread Width*

12. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

◆ **CAB, ROPS**

1. KUBOTA recommends the use of a CAB or 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. Check for overhead clearance which may interfere with a CAB or ROPS.
2. Set parking brake and stop engine. Remove any obstruction that may prevent raising or folding of the ROPS. Do not allow any bystanders. Always perform function from a stable position at the rear of the tractor. Hold the top of the ROPS securely when raising or folding. Make sure all pins are installed and locked.
3. If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
4. Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
5. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
6. If the tractor is equipped with a foldable ROPS it may be temporarily folded down only when absolutely necessary for areas with height constraints.
   (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)

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SPECIFICATIONS

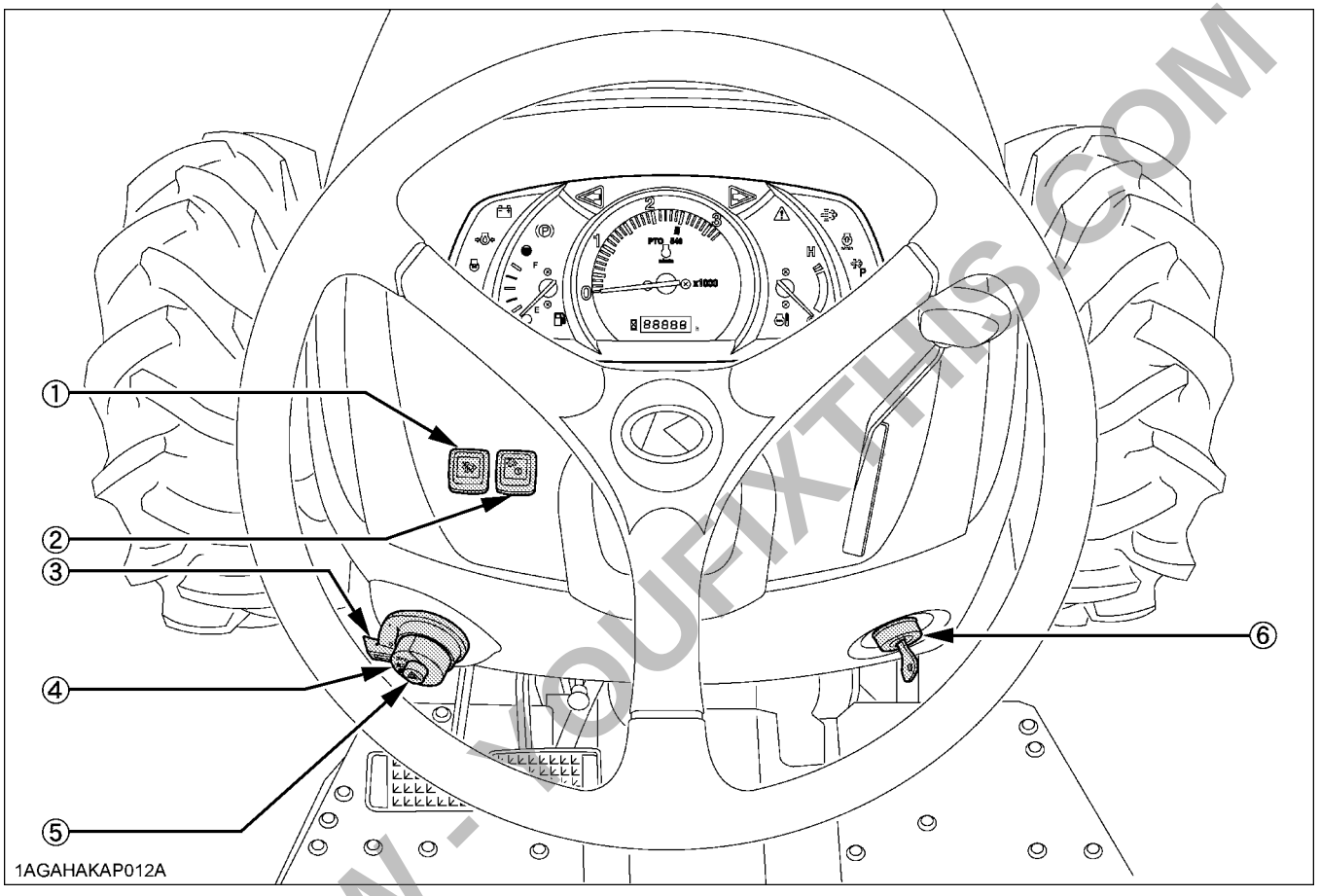
SPECIFICATION TABLE

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)

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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



ILLUSTRATED CONTENTS

(1) *DPF INHIBIT switch..... 13*
(2) *Parked regeneration switch..... 13*
(3) *Turn signal switch..... 30*
(4) *Head light switch..... 30*
(5) *Hazard light switch..... 30*
(6) *Key switch..... 20*

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OPERATING THE ENGINE

WARNING

To avoid personal injury or death:

- **Read "Safe Operation" in the front of this manual.**
- **Read 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

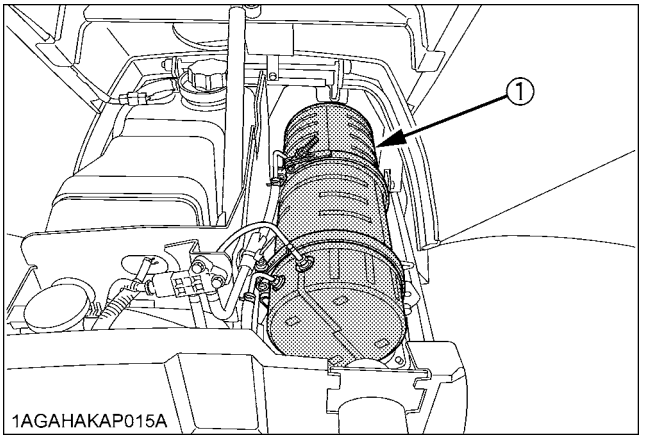
To avoid personal injury or death:

- **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)

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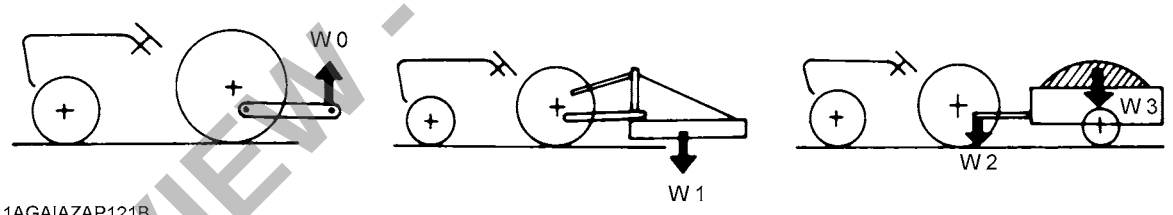
IMPLEMENT LIMITATIONS

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 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.

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9. Turn the key to "START" position and release when the engine starts.

IMPORTANT:
[Manual Transmission Type]

- Because of the safety devices, the engine will not start except when the PTO clutch control switch is placed in the "OFF" position and shuttle shift lever is placed in the "NEUTRAL" position.

[HST Type]

- Because of the safety devices, the engine will not start except when the PTO clutch control switch is placed in the "OFF" position, the speed control pedal is placed in the "NEUTRAL" position.

10. Check to see that all the lamps on the Easy Checker(TM) are "OFF".

If the lamp is still on, immediately stop the engine and determine the cause.

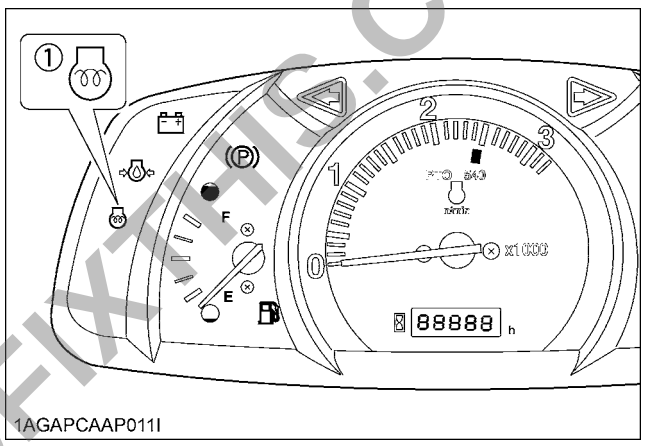
11. Release the clutch pedal.

[Manual Transmission Type]

COLD WEATHER STARTING

If the ambient temperature is below -5℃(23℉) and the engine is very cold, follow the procedure below after taking the step 1 through 8 in the previous pages.

9. Turn the key to "ON" (glow plug) and keep it there until glow plug indicator goes off.



(1) Glow plug indicator

10. Turn the key to the start position and the engine should start.

(If the engine fails to start after 10 seconds, turn off the key for 30 seconds. Then repeat steps (9) and (10). To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.)

■Block Heater (if equipped)

A block heater is available as an option from your dealer. It will assist you in starting your tractor when the ambient temperature is below -20℃(-4℉).

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OPERATING TECHNIQUES

■Differential Lock

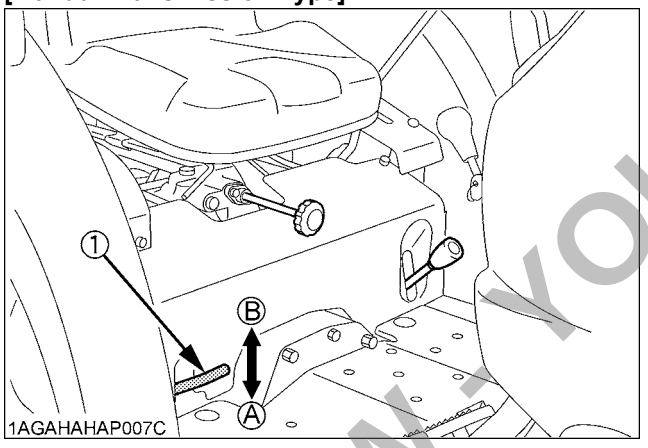
WARNING

To avoid personal injury or death due to loss of steering control:

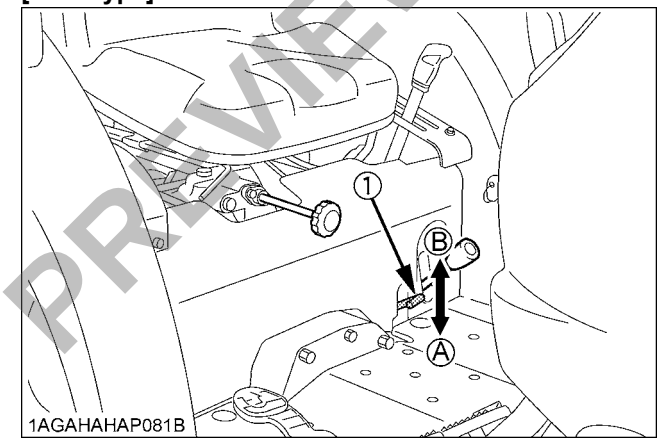
- **Do not operate the tractor at high speed with differential lock engaged.**
- **Do not attempt to turn with the differential lock engaged.**
- **Be sure to release the differential lock before making a turn in field conditions.**

If one of the rear wheels should slip, step on the differential lock pedal. Both wheels will turn together, then reduce slippage.
Differential lock is maintained only while the pedal is depressed.

[Manual Transmission Type]



[HST Type]



(1) Differential lock pedal
(A) Press to "ENGAGE"
(B) Release to "DISENGAGE"

IMPORTANT :

- When using the differential lock, always slow the engine down.
- To prevent damage to power train, do not engage differential lock when one wheel is spinning and the other is completely stopped.
- If the differential lock cannot be released, step lightly on the brake pedals alternately.

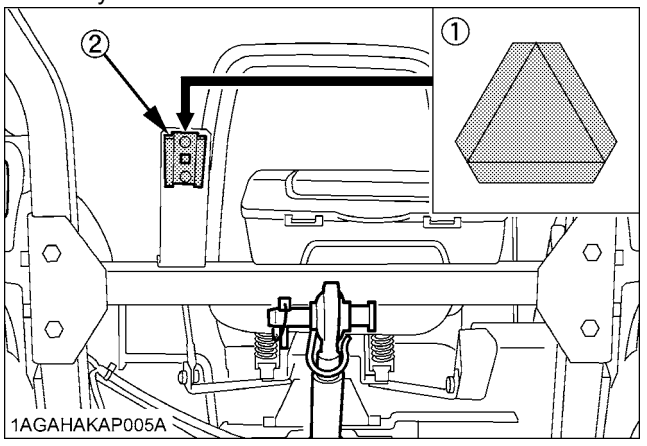
■Operating the Tractor on a Road

WARNING

To avoid personal injury or death:

- **To help assure straight line stops when driving at transport speeds, lock the brake pedals together. Uneven braking at road speeds could cause the tractor to roll-over.**
- **When traveling on road with 3-point hitch mounted implement attached, be sure to have sufficient front weight on the tractor to maintain steering ability.**

Be sure SMV emblem and warning lamps are clean and visible. If towed or rear-mounted equipment obstructs these safety devices, install SMV emblem and warning lamps on equipment.
Consult your local KUBOTA Dealer for further details.



(1) SMV emblem
(2) Bracket

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LUBRICANTS, FUEL AND COOLANT

<table>
<tr><th rowspan="2">No.</th><th rowspan="2">Locations</th><th colspan="3">Capacities</th><th colspan="2" rowspan="2">Lubricants</th></tr>
<tr><th>MX4800</th><th>MX5200</th><th>MX5800</th></tr>
<tr><td>1</td><td>Fuel</td><td colspan="3">51 L
(13.5 U.S.gals.)</td><td colspan="2">No. 2-D S15 diesel fuel
No. 1-D S15 diesel fuel
if temperature is below -10 ℃ (14℉)</td></tr>
<tr><td>2</td><td>Coolant</td><td colspan="3">6.5 L
(6.9 U.S.qts.)</td><td colspan="2">Fresh clean soft water with anti-freeze</td></tr>
<tr><td rowspan="4">3</td><td rowspan="4">Engine crankcase
(with filter)</td><td rowspan="4">8.2 L
(8.7
U.S.qts.)</td><td rowspan="4">9.4 L
(9.9 U.S.qts.)</td><td>• Engine oil :
Refer to next page</td><td>CJ-4
(DPF type engine)</td></tr>
<tr><td>Above 25℃ (77℉)</td><td>SAE30, SAE10W-30
or 15W-40</td></tr>
<tr><td>-10 to 25℃ (14 to 77℉)</td><td>SAE20, SAE10W-30
or 15W-40</td></tr>
<tr><td>Below -10℃ (14℉)</td><td>SAE10W-30</td></tr>
<tr><td>4</td><td>Transmission case</td><td colspan="3">44.0 L (11.6 U.S.gals.)</td><td colspan="2">• KUBOTA SUPER UDT-2 fluid</td></tr>
<tr><td>5</td><td>Front axle case
[4WD]</td><td colspan="3">8.5 L
(8.9 U.S.qts.)</td><td colspan="2">• KUBOTA SUPER UDT-2 fluid or
SAE80 - SAE 90 gear oil</td></tr>
<tr><td rowspan="9">6</td><td>Greasing</td><td colspan="3">No. of greasing points</td><td>Capacity</td><td>Type of grease</td></tr>
<tr><td>• Front wheel hub [2WD]</td><td colspan="3">2</td><td>Moderate amount</td><td rowspan="9">Multipurpose Grease
NLGI-2 OR
NLGI-1(GC-LB)</td></tr>
<tr><td>• Knuckle shaft [2WD]</td><td colspan="3">2</td><td rowspan="7">Until grease overflows.</td></tr>
<tr><td>• Front wheel case
support [4WD]</td><td colspan="3">2</td></tr>
<tr><td>• Front axle support [4WD]</td><td colspan="3">2</td></tr>
<tr><td>• Top link</td><td colspan="3">2</td></tr>
<tr><td>• Top link bracket</td><td colspan="3">2 [with Draft Control (if equipped)]</td></tr>
<tr><td>• Lift rod</td><td colspan="3">1</td></tr>
<tr><td>• Battery terminals</td><td colspan="3">2</td><td>Moderate amount</td></tr>
</table>

NOTE :

The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

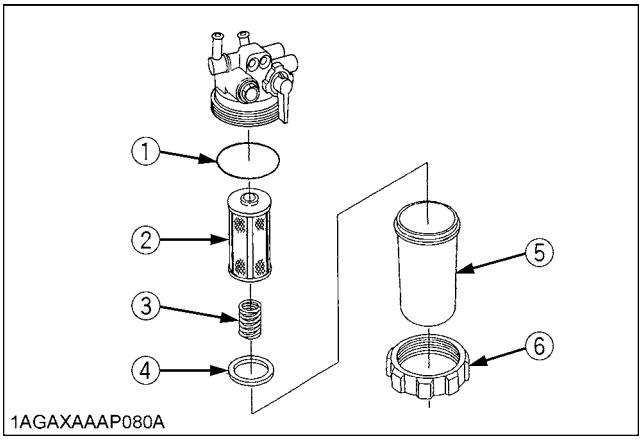
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MAINTENANCE

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	75		
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	76		
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	74		
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	79	*3	
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	77		
6	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	78		
7	Clutch [MT]	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	78		
8	Air cleaner element Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	77	*1	@
		Replace															every 1000Hr or 1 year	86	*4	
	Secondary element	Replace															every 1000Hr or 1 year	86	*4	
9	Transmission oil filter [HST]	Replace	◎			○				○				○			every 200 Hr	80		
10	Toe-in	Adjust				○				○				○			every 200 Hr	81		
11	Engine oil	Change	◎							○							every 400 Hr	82		
12	Engine oil filter	Replace	◎							○							every 400 Hr	83		
13	Water separator	Clean								○							every 400 Hr	84		
14	Fuel filter	Replace								○							every 400 Hr	84		@
15	Hydraulic oil filter [HST]	Replace	◎							○							every 400 Hr	83		
16	Hydraulic oil filter [Except HST]	Replace								○							every 400 Hr	83		
17	Transmission fluid	Change								○							every 400 Hr	83		
18	Greasing (2WD front wheel hub)	-								○							every 400 Hr	85		
19	Front axle pivot	Adjust												○			every 600 Hr	85		
20	Front axle case oil (4WD)	Change															every 800 Hr	85		

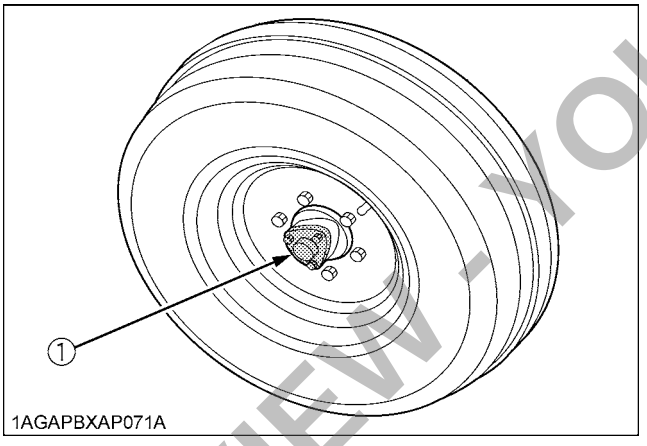
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(1) O ring
(2) Element
(3) Spring
(4) Red float
(5) Cup
(6) Retainer ring

■Lubricating Grease Fitting [2WD Model]

Detach the cover, and apply bearing grease.



(1) Front wheel hub cover

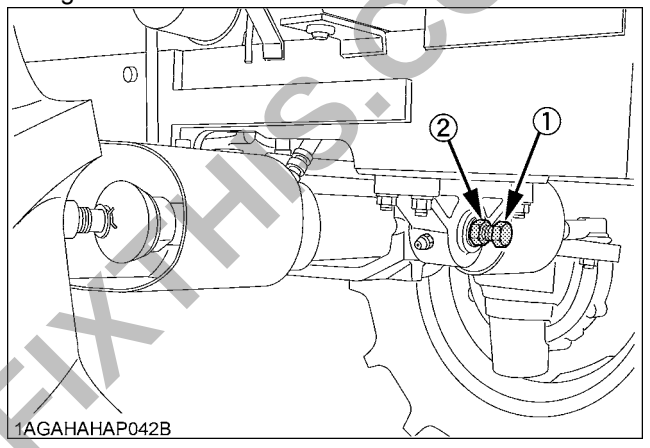
EVERY 600 HOURS

■Adjusting Front Axle Pivot

If the front axle pivot pin adjustment is not correct, front wheel vibration can occur causing vibration in the steering wheel.

◆ Adjusting procedure

Loosen the lock nut, screw-in the adjusting screw until seated, then tighten the screw with an additional 1/6 turn. Re-tighten the lock nut.



(1) Adjusting screw
(2) Lock nut

EVERY 800 HOURS

■Changing Front Axle Case Oil

[4WD]

1. To drain the used oil, remove the right and left drain plugs and filling plug at the front axle case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plugs.
3. Remove the oil level check plug.
4. Fill with the new oil up to the check plug port. (See "LUBRICANTS" in "MAINTENANCE" section.)
5. After filling reinstall the filling plug and check plug.

Oil capacity	8.5 L (8.9 U.S.qts.)

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