Kubota

U.S.A. : **KUBOTA TRACTOR CORPORATION**
1000 Kubota Drive, Grapevine, TX 76051
Telephone : 888-4KUBOTA

Canada : **KUBOTA CANADA LTD.**
5900 14th Avenue, Markham, Ontario, L3S 4K4, Canada
Telephone : (905)294-7477

France : **KUBOTA EUROPE S.A.S**
19-25, Rue Jules Vercruysse, Z.I. BP88, 95101 Argenteuil Cedex, France
Telephone : (33)1-3426-3434

Italy : **KUBOTA EUROPE S.A.S Italy Branch**
Via Grandi, 29 20068 Peschiera Borrome (MI) Italy
Telephone : (39)02-51650377

Germany : **KUBOTA (DEUTSCHLAND) GmbH**
Senefelder Str. 3-5 63110 Rodgau /Nieder-Roden, Germany
Telephone : (49)6106-873-0

U.K. : **KUBOTA (U.K.) LTD.**
Dormer Road, Thame, Oxfordshire, OX9 3UN, U.K.
Telephone : (44)1844-214500

Spain : **KUBOTA ESPAÑA S.A.**
Avenida Recomba No.5, Poligno Industrial la Laguna, Leganes, 28914 (Madrid) Spain
Telephone : (34)91-508-6442

Australia : **KUBOTA AUSTRALIA PTY LTD.**
25-29 Permas Way, Truganina, VIC 3029, Australia
Telephone : (61)-3-9394-4400

Malaysia : **KUBOTA MALAYSIA SDN. BHD.**
No.3 Jalan Sepadu 25/123 Taman Perindustrian Axis,
Seksyen 25, 40400 Shah Alam, Selangor Darul Ehsan Malaysia
Telephone : (60)3-736-1388

Philippines : **KUBOTA PHILIPPINES, INC.**
232 Quirino Highway, Baesa, Quezon City 1106, Philippines
Telephone : (63)2-422-3500

Taiwan : **SHIN TAIWAN AGRICULTURAL MACHINERY CO., LTD.**
16, Fengping 2nd Rd, Taliao Shiang Kaohsiung 83107, Taiwan R.O.C.
Telephone : (886)7-702-2333

Indonesia : **PT KUBOTA MACHINERY INDONESIA**
Tower A at EightyEight@Kasablanka Lantai 16
Jalan Raya Casablanka Kav. 88, Jakarta 12870 Indonesia
Telephone : (62)-21-29568-720

Thailand : **SIAM KUBOTA CORPORATION CO., LTD.**
101/19-24 Moo 20, Navanakorn Industrial Estate, Tambon Khlongnueng, Amphur Khlongluang,
Pathumthani 12120, THAILAND
Telephone : (66)2-909-0300

Korea : **KUBOTA KOREA CO., LTD.**
41-27, Jayumuyeok-gil, Baeksan-myeon, Gimje-si, Jeollabuk-do, Korea
Telephone : (82)-63-544-5822

India : **KUBOTA AGRICULTURAL MACHINERY INDIA PVT. LTD.**
No.15, Medavakkam Road, Sholinganallur, Chennai-600119, T.N., India
Telephone : (91)44-6104-1500

Vietnam : **KUBOTA VIETNAM CO., LTD.**
Lot B-3A2-CN, My Phuoc 3 Industrial Park, Thoi Hoa Ward, Ben Cat Town, Binh Duong Province, Vietnam
Telephone : (84)-274-3577-507

KUBOTA Corporation

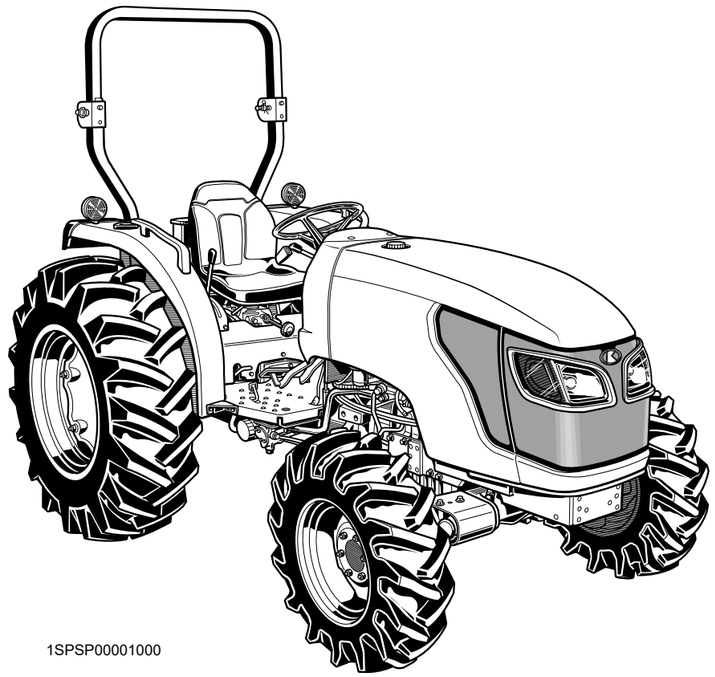
English (Oceania)
Code No. TC457-1974-2

M X 5 2 0 0

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODEL MX5200



1SPSP00001000

PREVIEW - YOUFIXTHIS.COM

READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

© KUBOTA Corporation 2018

Kubota

CONTENTS

SAFE OPERATION 5

SERVICING OF THE TRACTOR 15

DEALER SERVICE 15
1. Warranty of the tractor 15
2. Scrapping the tractor and its procedure 16

SPECIFICATIONS 17

SPECIFICATION TABLE 17
TRAVELING SPEEDS TABLE [MANUAL TRANSMISSION TYPE] 19
TRAVELING SPEEDS TABLE [HST TYPE] 20

IMPLEMENT LIMITATIONS 21

IMPLEMENT LIMITATION TABLES 21

INSTRUMENT PANEL AND CONTROLS 23

INSTRUMENT PANEL, SWITCHES, AND HAND CONTROLS 23
1. Head light switch 24
2. Hazard light switch and turn signal light switch 24
3. Warning lamps 25
4. Key switch 25
5. Horn button 26
FOOT CONTROLS AND HAND CONTROLS 27
1. Foot controls and hand controls [Manual transmission type] 27
2. Foot controls and hand controls [HST type] 28
3. Clutch pedal 29
4. Front wheel drive lever 29
5. Seat belt 30
6. Operator's seat 30
7. Hand throttle lever 31
8. Brake pedals (right and left) 31
8.1 How to use the parking brake 31
9. Main gear shift lever [Manual transmission type only] 32
10. Synchro-shuttle shift lever [Manual transmission type only] 32
11. Range gear shift lever [Manual transmission type] 32
12. Foot throttle [Manual transmission type only] 33
13. Range gear shift lever (L-M-H) [HST type] 33
14. Cruise control lever [HST type only] 33
14.1 How to use the cruise control lever [HST type only] 34
15. Speed control pedal [HST type only] 34
ELECTRICAL OUTLET 35

PRE-OPERATION CHECK 36

DAILY CHECK ITEMS BEFORE OPERATION OF THE TRACTOR 36

OPERATING THE ENGINE 37

PRECAUTIONS FOR OPERATING THE ENGINE 37
STARTING THE ENGINE [MANUAL TRANSMISSION TYPE] 37
STARTING THE ENGINE [HST TYPE] 39
STARTING THE ENGINE IN COLD WEATHER 41
1. Block heater (if equipped) 41
STOPPING THE ENGINE 41
WARMING UP OF THE ENGINE 41
1. Warm-up of the engine and transmission oil in the low temperature range 42
JUMP STARTING THE ENGINE 42

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

INDEX

Symbols

3-point hitch
overview....62
precautions for using....9
3-point hitch control system
precautions....66
3-point hitch implement
changing category 1 and 2....63
3-point hitch lowering speed
function....68
3-point hitch mounted implement
draft....67
draft control....66
position control....66

A

air cleaner primary element
Replacing....96
air cleaner primary element [double element type]
cleaning....87
air cleaner secondary element
Replacing....96
antifreeze....97

B

ballast
precautions....75
battery condition
checking....89
block heater
outline....41
brake pedal
adjusting....89
checking....84
function....31

C

clutch housing water
draining water....101
clutch pedal
adjusting....89
checking....84
function....29
coolant....79
changing....96
coolant level
checking....83
coolant temperature
dealing with overheated....56
coolant temperature gauge
function....56
cooling system
flushing....96
cruise control lever [HST type]
function....33
operating....34

D

daily check items
before operation of the tractor....36
dealer service....15
differential lock
function....57
double element type
cleaning air cleaner primary element....87
drawbar
adjusting length....65
dealing with....63
overview....62
precautions....65
dual tire
notification....72

E

Easy Checker (TM)....55
checking....84
electrical charge warning indicator....25
electrical outlet....35
engine
cases to stop immediately....55
jump starting....42
starting in cold weather....41
stopping....41
warming up....41
warming up in the low temperature range....42
engine [HST type]
starting....39
engine [manual transmission type]
starting....37
engine oil
changing....91
checking level....82
engine oil filter
replacing....90
engine oil pressure warning indicator....25
engine start system [HST type]
checking....86
engine start system [manual transmission type]
checking....85
engine valve
adjusting clearance....96

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SAFE OPERATION

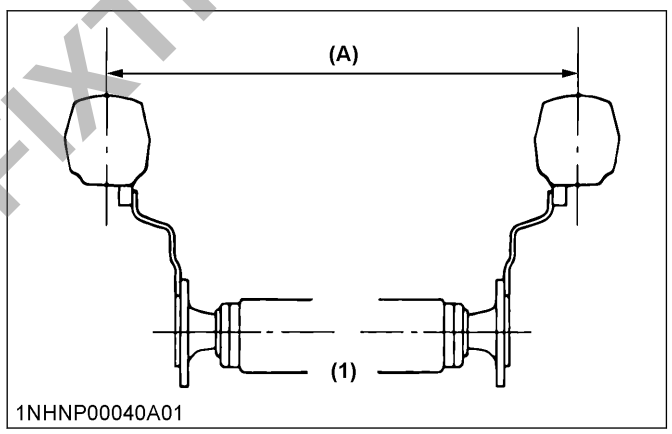
Careful operation is your best insurance against an accident.
Read and understand this manual carefully before operating the tractor.
All operators, no matter how much experience they may have, should read this and other related manuals before operating the tractor or any implement attached to it. It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

PRECAUTIONS BEFORE OPERATING THE TRACTOR

Know your equipment and its limitations.
Read this entire manual before starting and operating the tractor.

1. General precautions

- Pay special attention to the safety labels on the tractor.
- Do not operate the tractor or any implement attached to the tractor while under the influence of alcohol, medication, controlled substances, or while you are fatigued.
- Carefully check the vicinity of tractor before operating it or any implement attached to it. Do not allow any bystander around or near the tractor during operating it.
- Before allowing other people to use your tractor, explain them how to operate it and require them to read this manual before operating your tractor.
- Never wear loose, torn, or bulky clothing around the tractor. Loose, torn, or bulky clothing may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items: hard hat, safety boots or shoes, eye and hearing protection, gloves, and so on, as appropriate or required.
- Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the operator's seat during operating the tractor.
- Check the 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 SERVICE INTERVALS TABLE on page 77)
- Keep your tractor clean. Buildups of dirt, grease, and trash may contribute to fires and lead to personal injury.
- Use only implements meeting the specifications listed under IMPLEMENT LIMITATION TABLES on page 21, or implements approved by KUBOTA.
- 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 maintain proper ballast and braking. Follow the safe operating procedures specified in the implement or attachment manual.
- 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 WHEEL ADJUSTMENT on page 72)



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

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

2. Precaution for CAB and ROPS

KUBOTA recommends the use of a CAB or roll-over-protective-structures (ROPS), and seat belt in almost all applications. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the tractor should be upset.

- Check for overhead clearance which may interfere with a CAB or ROPS.
- Set the parking brake and stop the engine. Remove any obstructions which may prevent raising or folding the ROPS. Do not allow any bystander. Always perform function of ROPS from a stable position at the rear of the tractor. Hold the top of the ROPS securely when raising or folding it. Make sure that all pins are installed and locked.
- If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

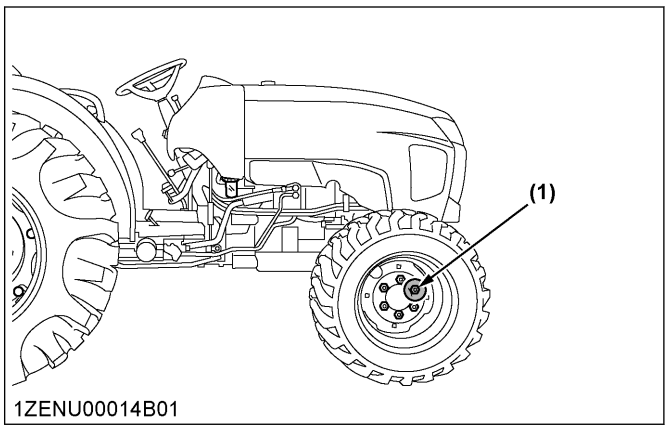
SPECIFICATION TABLE

Model				MX5200	
				Manual transmission	HST
Engine	Model			V2403-M-TE3	
	Type			Indirect injection, Vertical, Water-Cooled 4 cycle diesel (E-TVCS)	
	Number of cylinders / Aspiration			4 / Turbocharged	
	Total displacement		L	2.434	
	Bore and stroke		mm	87 x 102.4	
	Net power*1		kW (PS) / rpm	38.2 (51.9) / 2700	37.8 (51.4) / 2700
	PTO power (factory observed)*1		kW (PS) / rpm	33.6 (45) / 2700	32.4 (43.5) / 2700
	Maximum torque		N·m (kgf·m)	166.3 (16.8)	
	Battery capacity			12 V, RC : 133 min, CCA : 582 A	
Capacities	Fuel tank		L	48.0	
	Engine crankcase (with filter)		L	8.0	
	Engine coolant		L	7.0	
	Transmission case		L	44.0	
Dimensions	Overall length (without 3p)		mm	3245	
	Overall width (min. tread)		mm	1770	
	Overall height (with ROPS)		mm	2430	
	Wheel base		mm	1895	
	Min. ground clearance		mm	385	
	Tread	Front	mm	1325	
		Rear	mm	1375, 1490	
Weight (with ROPS)			kg	1642	1712
Traveling system	Standard tire size	Front		9.5-16	
		Rear		14.9-26	
	Clutch			Dry type single stage	
	Steering			Hydrostatic power steering	
	Transmission			Gear shift, 8 forward and 8 reverse	Hydrostatic transmission, 3 range speed
	Braking system			Mechanical, Wet disk type	
	Min. turning radius (with brake)		m	2.7	
Hydraulic unit	Hydraulic control system			Position control	
	Pump capacity		L / min	35.8	
	3-point hitch			SAE Category 1, 2	

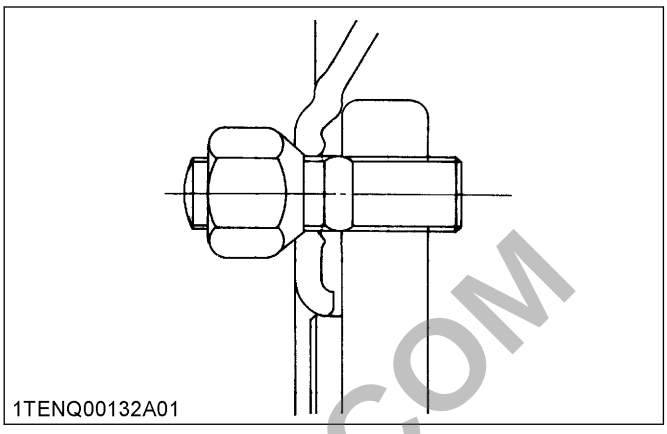
(Continued)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



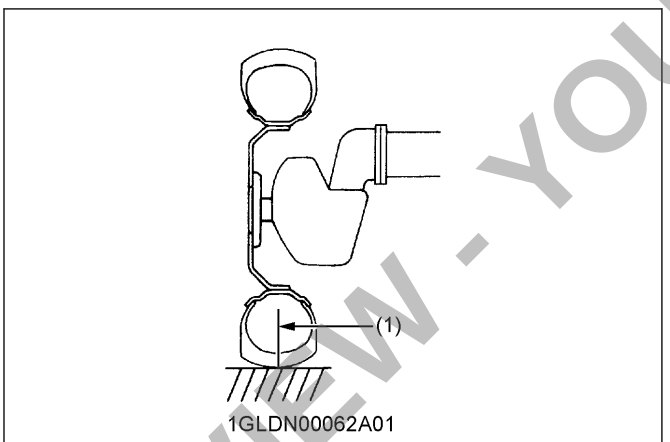
(1) Bolt



Bolt (1)	Tightening torque	124.0 N·m to 147.0 N·m (12.6 kgf·m to 15.0 kgf·m) [91.5 ft·lbs to 108.4 ft·lbs]

Then recheck after driving the tractor as follows, and thereafter according to SERVICE INTERVALS TABLE on page 77.

Driving tractor	200 m (200 yards) and 10 times of shuttle movement by 5 m (5 yards)



(A) Tread

Tire	Tread
9.5-16 Farm	1325 mm (52.2 in.)
12-16.5 IND	1325 mm (52.2 in.)
29 x 12.5-15 Turf	1305 mm (51.4 in.)

IND
For industrial

NOTE :

- **For wheels with beveled or tapered holes, use the tapered side of lug nut.**

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, see the following table for the cause of the trouble and its corrective measure.

Trouble		Cause	Countermeasure
Engine is difficult to start or will not start.		• No fuel flow	• Check the fuel tank and the fuel filter. Replace the filter if necessary.
		• Air or water is in the fuel system.	• Check to see if the bolt and nut of fuel-line-coupler are tight. • Bleed the fuel system. (See Bleeding the fuel system on page 100)
		• In winter, oil viscosity increases, and engine revolution is slow.	• Use the oils of different viscosity, depending on ambient temperatures. • Use the engine-block-heater (option).
		• Battery becomes weak and the engine does not turn over quick enough.	• Clean battery cables and terminals. • Charge the battery. • In cold weather, always remove the battery from the engine, and charge and store the battery indoors. Install the battery on the tractor only when the tractor is going to be used.
Insufficient engine power.		• Insufficient or dirty fuel	• Check the fuel system.
		• The air cleaner is clogged.	• Clean or replace the air cleaner element.
Engine stops suddenly.		• Insufficient fuel	• Refuel. • Bleed the fuel system if necessary.
Exhaust fumes are colored.	Black	• Fuel quality is poor.	• Change the fuel and the fuel filter.
		• Too much oil	• Check the proper amount of oil.
		• The air cleaner is clogged.	• Clean or replace the air cleaner element.
	Blue or white	• The inside of exhaust muffler is damped from fuel.	• Heat the muffler by applying load to the engine.
		• Trouble of injection nozzle	• Check the injection nozzle.
		• Fuel quality is poor.	• Change the fuel and fuel filter.
Engine overheats.		• Engine overloaded.	• Shift to lower gear or reduce load.
		• Low coolant level.	• Fill cooling system to the correct level. Check the radiator and the hoses for loose connections or leaks.
		• Loose or damaged fan belt.	• Adjust or replace the fan belt.
		• Dirty radiator core or grille screens.	• Remove all trash.
		• Coolant flow route corroded.	• Flush the cooling system.

If there are any questions about the engine, consult your local KUBOTA Dealer.

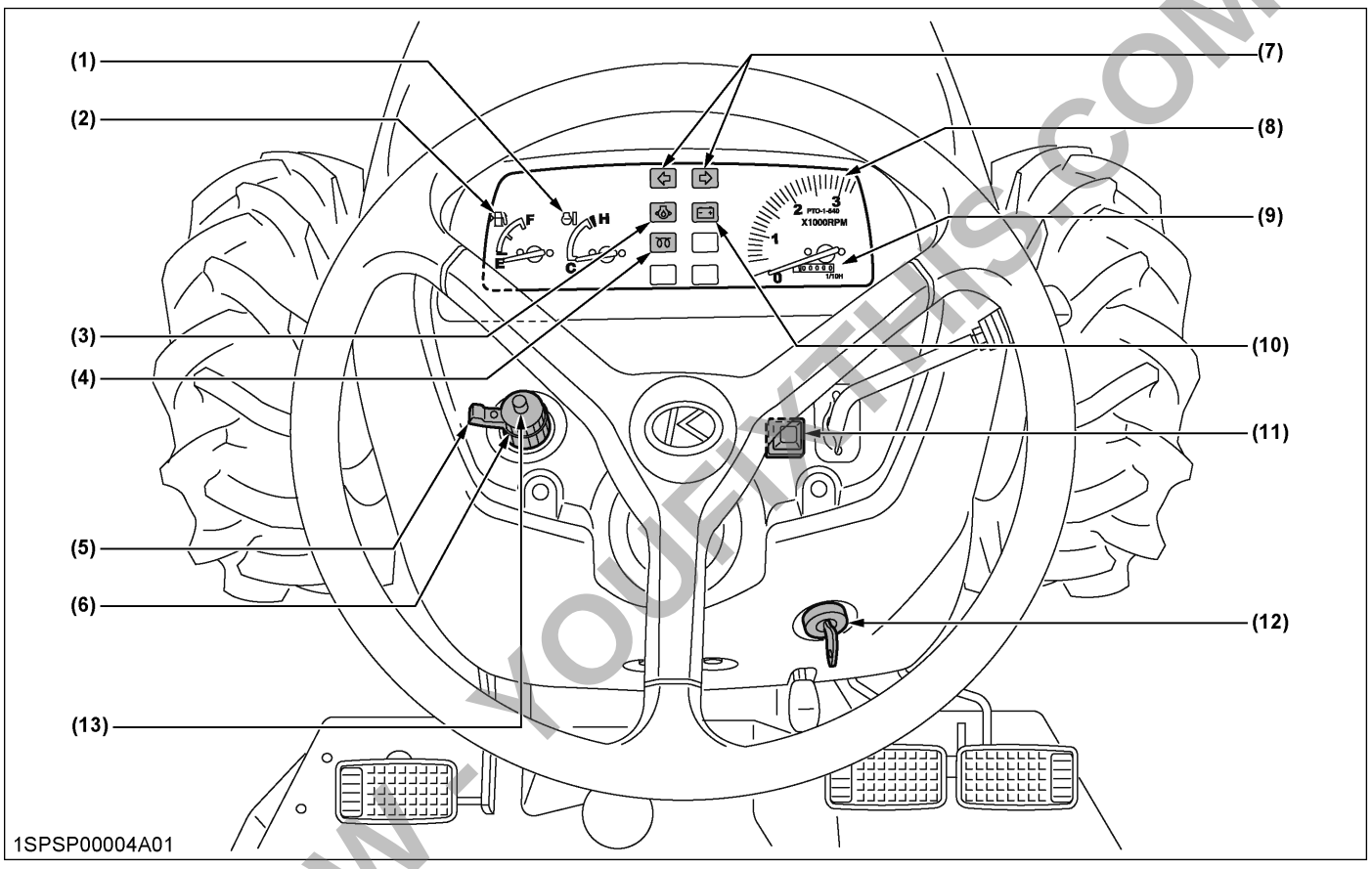
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

INSTRUMENT PANEL AND CONTROLS

INSTRUMENT PANEL, SWITCHES, AND HAND CONTROLS

Instrument panel, switches, and hand controls

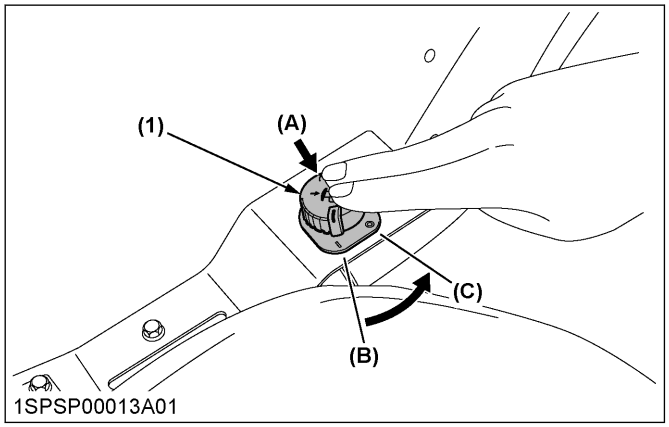


(1) Coolant temperature gauge 56
(2) Fuel gauge 55
(3) Engine oil pressure warning indicator 55
(4) Glow plug indicator 25
(5) Turn signal light switch 25
(6) Head light switch 24
(7) Turn signal / hazard light indicator 24
(8) Hour meter 56
(9) Tachometer 56
(10) Electrical charge warning indicator 55
(11) Hazard light switch 25
(12) Key switch 25
(13) Horn button 26

PREVIEW - YOUFIXTHIS.COM

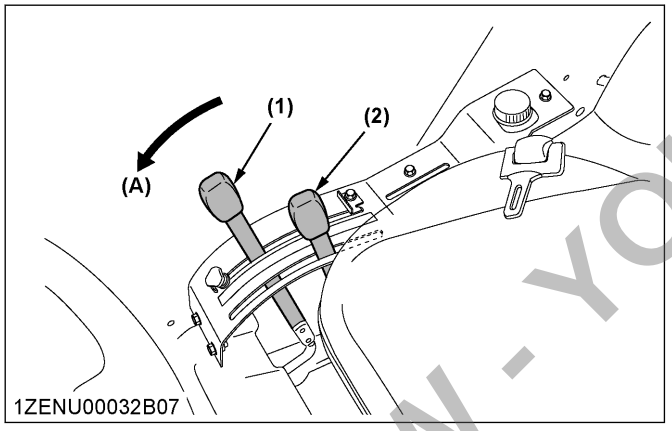
Download full manual at youfixthis.com

5. Place the PTO-clutch-control-switch in the *"OFF"* position.



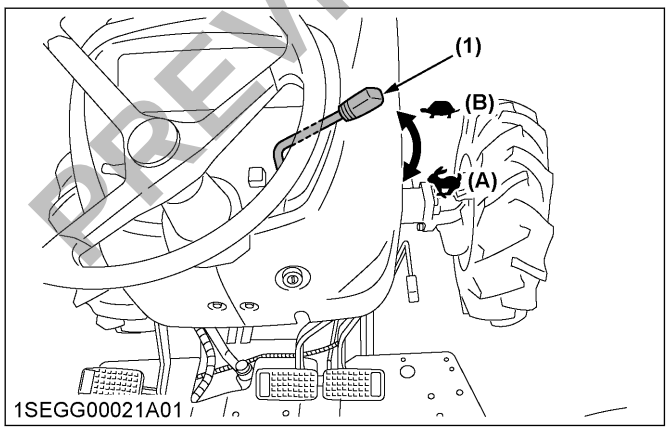
(1) PTO clutch control switch
(A) Push
(B) On
(C) Off

6. Place the position-control-lever and the draft-control-lever (if equipped) in the *"LOWEST"* position.



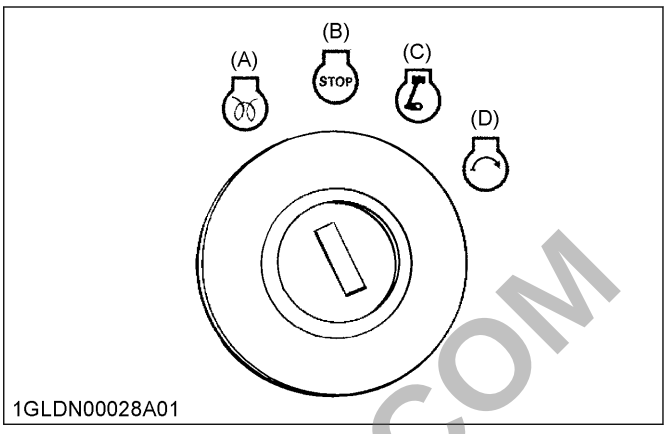
(1) Position control lever
(2) Draft control lever (if equipped)
(A) Down

7. Set the hand-throttle-lever to about 1/2 way.



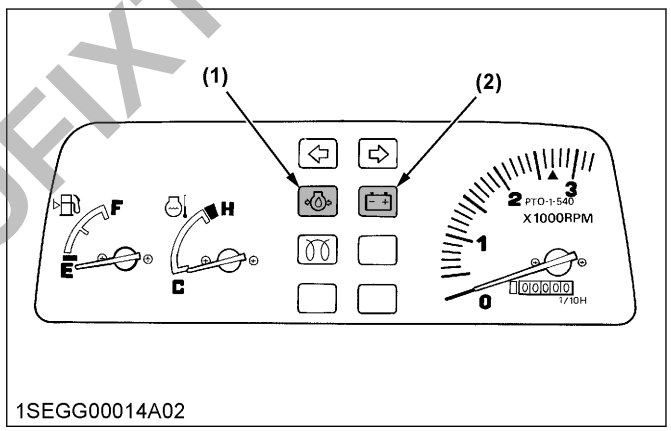
(1) Hand throttle lever
(A) Increase
(B) Decrease

8. Insert the starter key into the key switch and turn it on.



(A) Preheat
(B) Off
(C) On
(D) Start

9. Check the Easy Checker™ lamps.
When you turn *"ON"* the starter key, engine-oil-pressure-warning-indicator (1) and electrical-charge-warning-indicator (2) should come on.



(1) Engine oil pressure warning indicator
(2) Electrical charge warning indicator

10. Fully depress the clutch pedal.
11. Turn the starter key to the *"START"* position and release it when the engine starts.

IMPORTANT :
- **Because of 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, and the clutch pedal is depressed.**

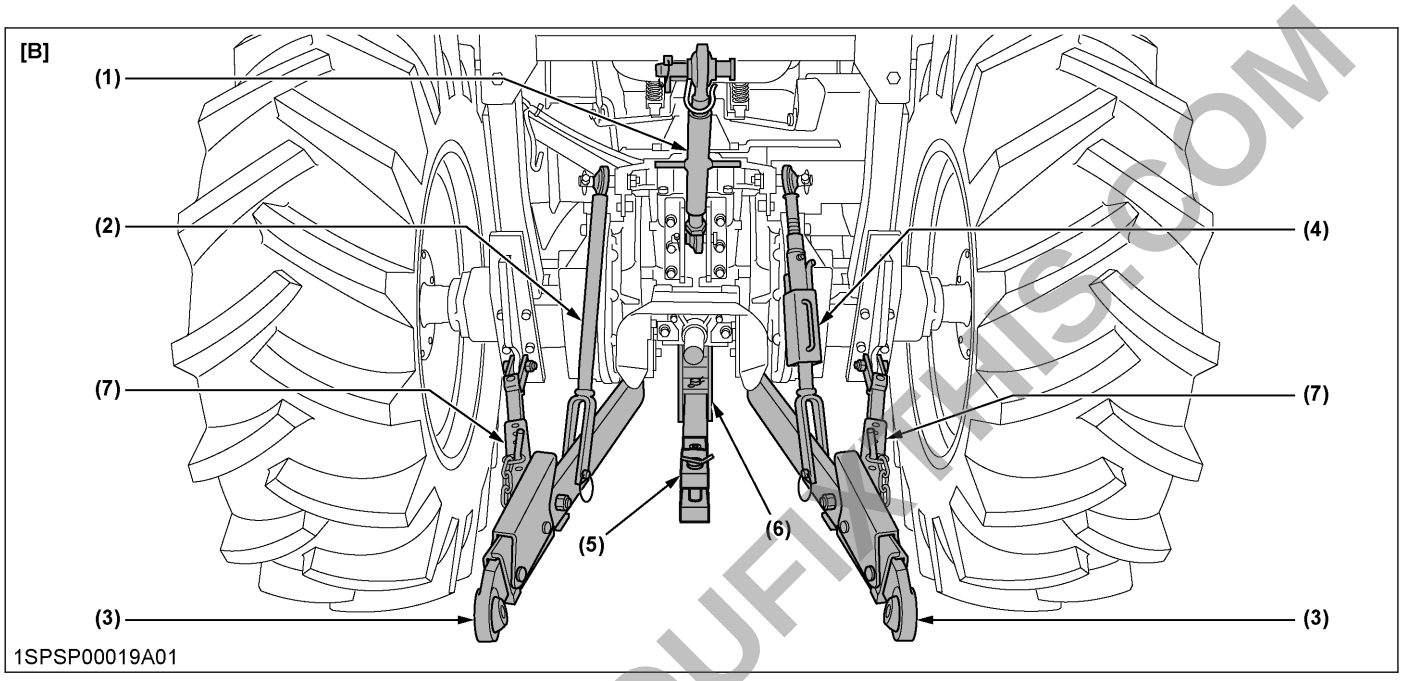
12. Check to see that engine-oil-pressure-warning-indicator and electrical-charge-warning-indicator are *"OFF"*.
If the engine-oil-pressure-warning-indicator or electrical-charge-warning-indicator is still on, immediately stop the engine and determine the cause.
13. Release the clutch pedal.

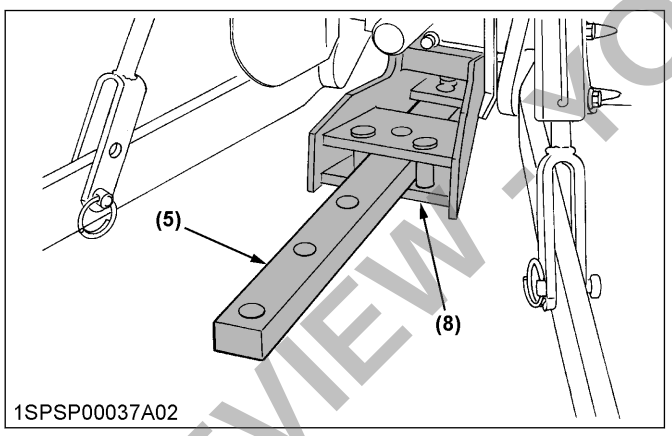
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3-POINT HITCH AND DRAWBAR

OVERVIEW OF THE 3-POINT HITCH AND DRAWBAR





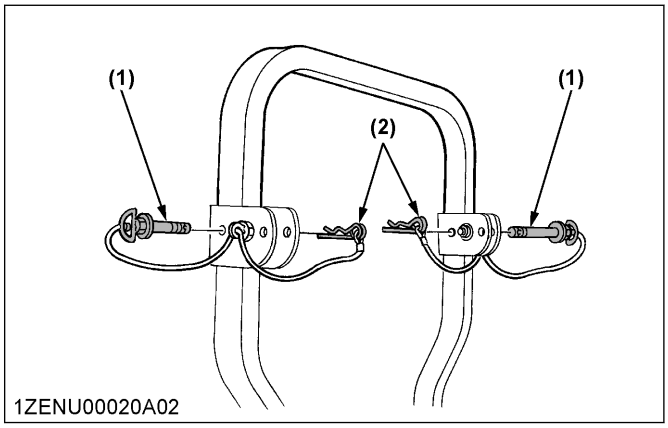
(1) Top link
(2) Lifting rod (left)
(3) Lower link
(4) Lifting rod (right)
(5) Drawbar
(6) Fixed drawbar frame
(7) Telescopic stabilizers
(8) Swing drawbar frame (if equipped)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. Folding the ROPS (if equipped)

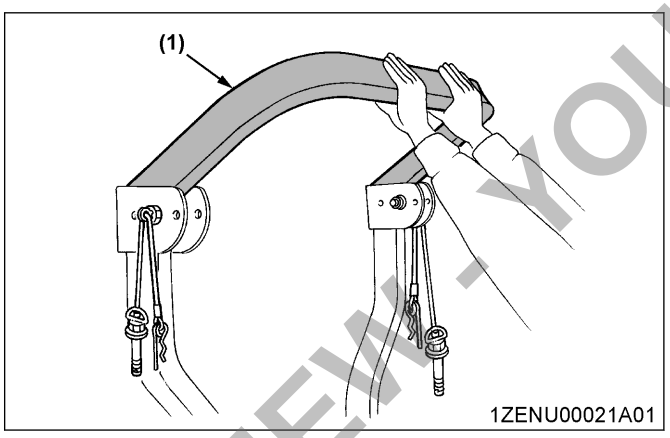
1. Remove both hair-pin-cotters and set bolts.



(1) Set bolt *(2) Hair pin cotter*

2. Fold the ROPS.

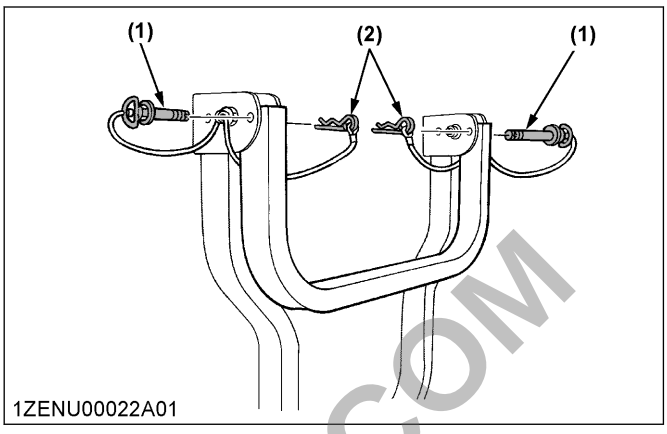
CAUTION
To avoid personal injury:
- **Hold the ROPS tightly with both hands and fold the ROPS slowly and carefully.**



(1) ROPS

3. Align the set-bolt-holes and insert both set bolts. Slightly tighten the set bolts and secure them with the hair-pin-cotters.

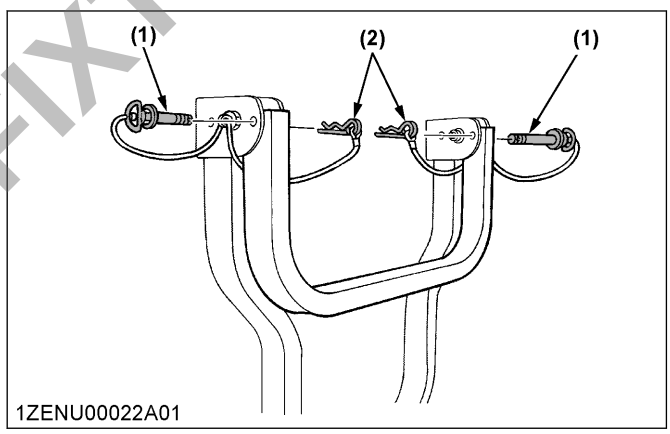
CAUTION
To avoid personal injury:
- **Make sure that both set bolts are properly installed and secured with the hair-pin-cotters.**



(1) Set bolt *(2) Hair pin cotter*

2. Raising the ROPS to upright position (if equipped)

1. Remove both the hair-pin-cotters and the set bolts.



(1) Set bolt *(2) Hair pin cotter*

2. Raise the ROPS to the upright position.

CAUTION
To avoid personal injury:
- **Raise the ROPS slowly and carefully.**

PREVIEW - YOUFIXTHIS.COM

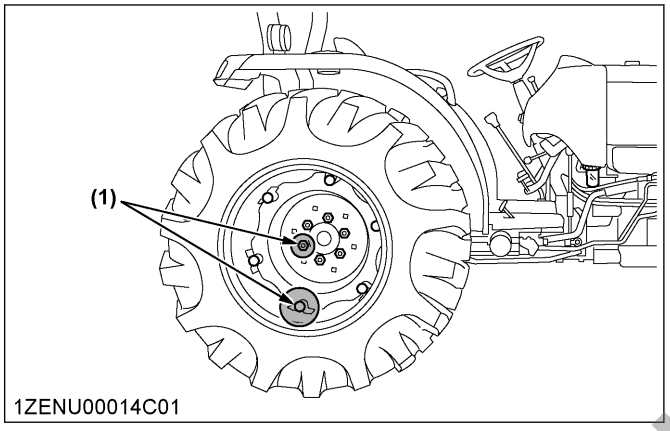
Download full manual at youfixthis.com

2.1 Adjusting the rear wheels

This section describe the procedure to change the width of the rear tread.

IMPORTANT :

- **Always attach the wheels as shown in the following figure.**
- **If you do not attach the rear wheel as the following figure, transmission parts may be damaged.**
- **When re-fitting or adjusting a wheel, tighten the bolts to the following torques.**



(1) Bolt

Bolt (1)	Tightening torque	196.0 N·m to 225.0 N·m (20.0 kgf·m to 23.0 kgf·m) [144.6 ft·lbs to 166.0 ft·lbs]

Then recheck the wheel after driving the tractor as follows, and thereafter according to SERVICE INTERVALS TABLE on page 77.

Driving tractor	200 m (200 yards) and 10 times of shuttle movement by 5 m (5 yards)

1. Remove the bolts which mount the wheel rim and / or disk.
2. Change the position of the rim and / or disk (right and left) to the desired position.
3. Tighten the bolts which mount the wheel rim and / or disk.

BALLAST

⚠ WARNING

To avoid personal injury or death:

- **You will need the additional ballast for transporting the heavy implements. When the implement is raised, drive slowly over rough ground, regardless of how much ballast is used.**
- **Do not fill the front wheels with liquid to maintain steering control.**

1. Front ballast

Add weights if needed for stability and improve traction. Heavy pulling and heavy rear mounted implements tend to lift the front wheels.
Add enough ballast to maintain the steering control and prevent tip over.
Remove the weight when no longer needed.

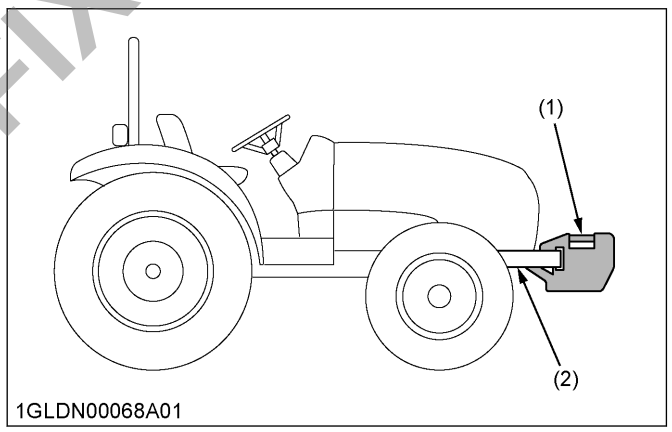
IMPORTANT :

- **Do not overload the tires.**
- **Add no more weight than indicated in the following table.**

Maximum weight	25 kg x 7 pieces

1.1 Front end weights (option)

You can attach the front-end-weights to the bumper.
Refer to your implement operator's manual for required number of weights or consult your local KUBOTA Dealer to use it.



(1) Front end weights (2) Bumper

2. Rear ballast

Add weights to rear wheels if needed to improve traction or for stability. you should match the amount of rear ballast to job and remove the rear ballast when it is not needed.
You should add the weight to the tractor in the form of liquid ballast, rear wheel weights, or a combination of both.

IMPORTANT :

- **Do not overload the tires.**
- **Add no more weight than indicated in the following table.**

Maximum weight per wheel	47 kg x 3 pieces

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 115 pages

The full manual includes:

- All 115 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota MX5200 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual