

Product: Kubota BX1880-AU BX2380-AU BX2680-AU RCK60 RCK54 RCK48 Service Manual  
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# WSM

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## WORKSHOP MANUAL **TRACTOR, ROTARY MOWER**

**BX1880-AU, BX2380-AU,  
BX2680-AU, RCK60B-23BX,  
RCK54-23BX, RCK48-18BX,  
RCK60D-26BX, RCK54D-26BX**

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KISC Issued 02, 2022 A

## TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of *BX1880-AU*, *BX2380-AU*, *BX2680-AU*, *RCK60B-23BX*, *RCK54-23BX*, *RCK48-18BX*, *RCK60D-26BX* and *RCK54D-26BX*. It contains 4 parts: "Information", "General", "Mechanism", and "Servicing".

### Information

This section primarily contains information below.

- Safety first
- Safety decal
- Specifications
- Dimensions

### General

This section primarily contains information below.

- Engine identification
- Model identification
- General precautions
- Maintenance check list
- Check and maintenance
- Special tools

### Mechanism

This section contains information on the structure and the function of the unit. Before you continue with the subsequent sections, make sure that you read this section.

### Servicing

This section primarily contains information below.

- Troubleshooting
- Servicing specifications (Service specifications)
- Tightening torques
- Checking, disassembling and servicing

All illustrations, photographs and specifications contained in this manual are of the newest information available at the time of publication.

Kubota reserves the right to change all information at any time without notice.

Since this manual includes many models, information or illustrations and photographs can show more than one model.

January 2018

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# RECORD OF REVISIONS

For pdf, use search function [Search word] to find all the revised locations.

Last digit of the code No.	Month of revision	Main revised point and corrective measure [Search word]	Reference page
1	2018 August	Added quick coupler disassembly and assembly.	2-85 7-50
		Revised service intervals: <ul style="list-style-type: none"> <li>• Transmission fluid</li> <li>• Transmission strainer</li> </ul>	2-27
2	2019 September	Added "Checking 3 point hitch oil flow" topic.	7-34
		Revised "Removing center section" topic.	4-41
3	2021 March	Addition of R14 tires	2-63 2-64 2-65
		Revised "Removing adapter and tie rod" topic.	6-11
		Addition of relays for engine stop solenoid	8-1
4	2022 February	Added information of serial numbers. (serial No.: 10001 to G9999)	2-54
		Added "Replacing fuse (serial No.: above H0001)" topic.	2-55



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# 1. INFORMATION

# SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

## DANGER

- Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

## WARNING

- Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

## CAUTION

- Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

## ■ IMPORTANT

- Indicates that equipment or property damage could result if instructions are not followed.

## ■ NOTE

- Gives helpful information.

## 1. Preparing for emergencies

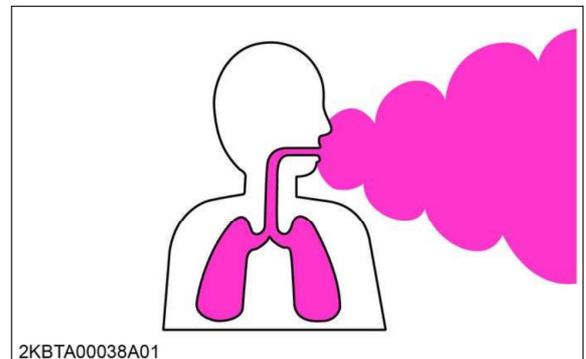


- Keep a first aid kit and fire extinguisher ready at all times.
- Keep emergency numbers near your telephone at all times.

## 2. Working cautions



- Wear proper service attire when performing work. Do not wear loose clothing as they could get caught on machine components.
- Wear the proper protective equipment when working around the machine. For example helmet, eye protector and protective shoes.
- Do not work around the machine if you are tired or have consumed alcohol or drugs.



- Keep the machine away from obstacles and hazardous materials.
- Ensure the working environment is properly ventilated.
- Do not allow third parties to come near the machine.

## 1. INFORMATION

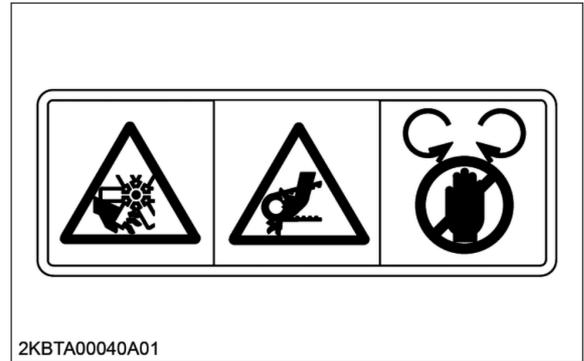


- Make sure you have the support of the 3 points with both hands holding the handle and one foot at the step when getting on and off the machine.
- When working under the machine, make sure the machine does not move back and forth or side-to-side.
- When working under the machine, provide secure support for the machine.
- When using a hydraulic jack, always use with a rigid rack to prevent the machine from falling.

## 3. Starting machine safely

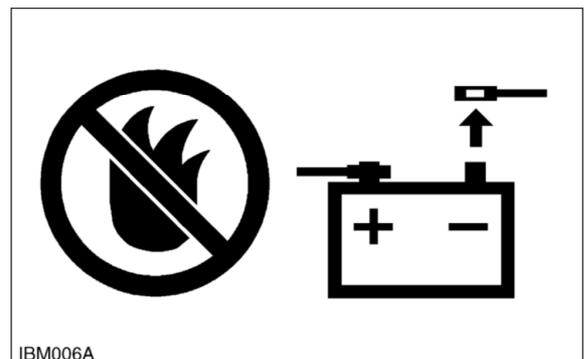


- Do not do the following work when starting the engine.
  - Short across starter terminals.
  - Bypass the safety start switch.
- Make sure there are no bystanders or obstacles present around the machine before starting the engine.
- Do not start the engine unless the operator is seated in the operator's seat.
- Make sure that the pilot levers are in neutral before starting the engine.



- Lock the covers before starting the machine.
- Keep away from rotating and moving objects.
- Keep tools and waste cloth away from rotating and moving objects.

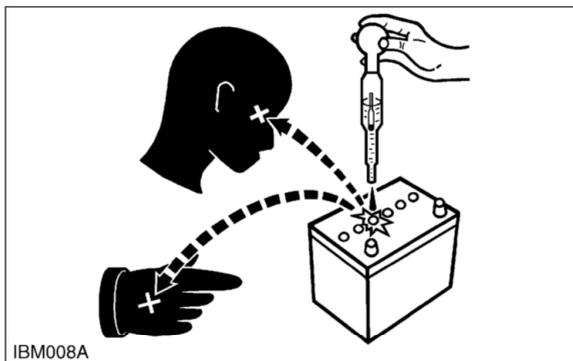
## 4. Preventing fires



- Keep fire (welding sparks, grinding sparks, cigarettes) away from the fuel.
- Wipe the fuel off when spilled.
- Keep fire (welding sparks, grinding sparks, cigarettes) away from the battery. The battery produces oxygen and hydrogen gas that are flammable.
- Disconnect the negative (-) terminal first when disconnecting the battery cable.

- Connect the positive (+) terminal first when connecting the battery cable.
- Do not short circuit the machine.
- Do not splash the hydraulic oil on the exhaust components.

## 5. Preventing acid burns

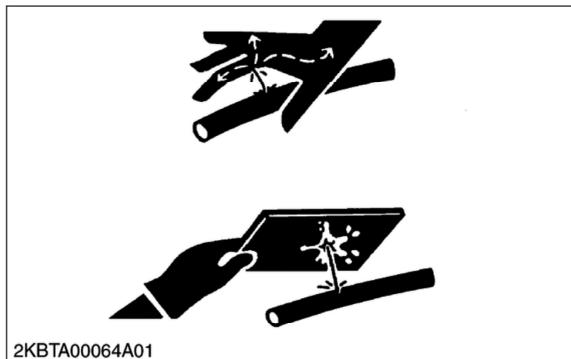


- Keep the electrolyte away from your eyes, hands, and clothes. Sulfuric acid in the battery electrolyte is poisonous: it can cause blindness and is strong enough to burn your skin and clothing. If you spill electrolyte on yourself, clean yourself with water and get a medical aid immediately.

## 6. Avoiding high pressure fluid

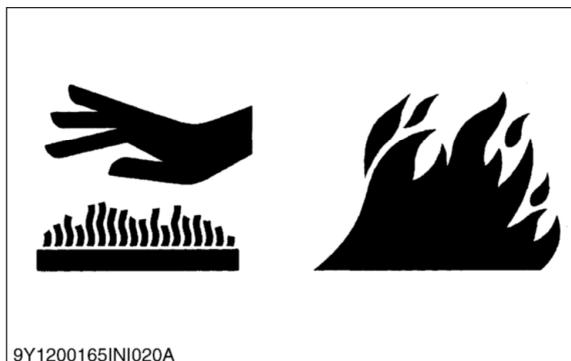


- Keep away from high pressure fluids bursting from a hose or pipe. The fluid can penetrate your skin and cause serious injuries.
- Get a medical aid immediately if an accident occurs.

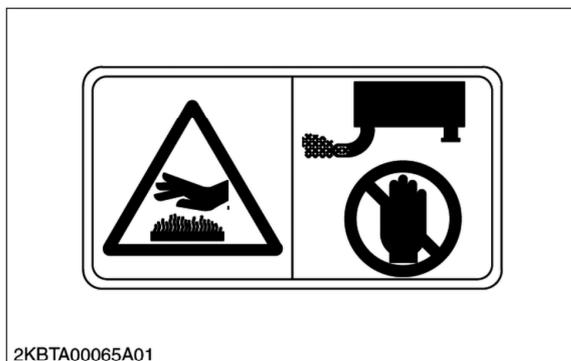


- Release residual pressure in the hydraulic circuit before removing the hydraulic components.
- Pay attention when releasing pressure in hydraulic circuit, because the machine or attachment might move unexpectedly.
- Check the coolant temperature and release the pressure before opening the radiator cap.

## 7. Avoiding hot exhaust



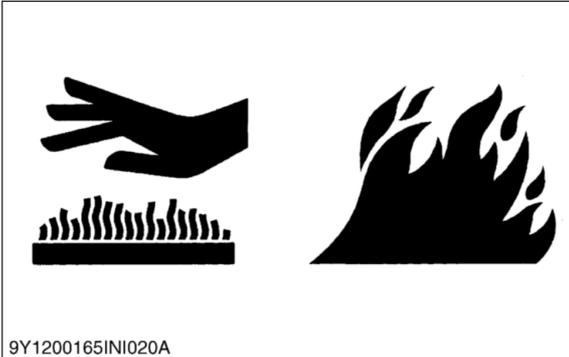
- Avoid skin exposure and contact with hot exhaust gas or components.
- Exhaust gas and components are extremely hot during operation.



## 1. INFORMATION

- Do not work immediately after stopping the engine. The engine, muffler, radiator, and hydraulic components are extremely hot.
- Do not remove caps and plugs soon after stopping the engine. The temperature and pressure of the coolant, hydraulic oil, and fuel are still high.

## 8. Cleaning exhaust filter



- Avoid skin exposure and contact with hot exhaust gas or components. Exhaust gas and components are extremely hot during regeneration of the diesel particulate filter (DPF).

# SAFETY LABEL

## 1. Safety labels for BX tractor

The safety labels are installed on the machine. If a label becomes damaged, illegible or is not on the machine, replace it. The label part number is listed in the parts list.

1. INFORMATION

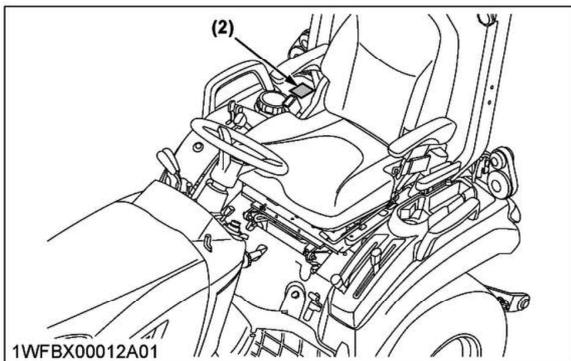
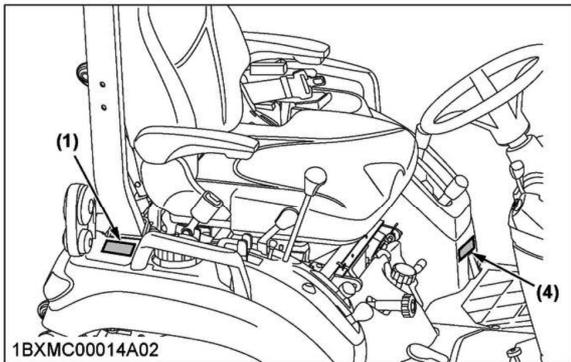
(1) Part No. K2871-6548-1

**WARNING**

**TO AVOID PERSONAL INJURY OR DEATH:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Slow down for turns, or rough roads.

1AGAJBMAP0460



2RDZZ00001A01enUS

(2) Part No. K1272-6585-2  
(Serial No.: 10001 to G9999)  
Diesel fuel No fire only

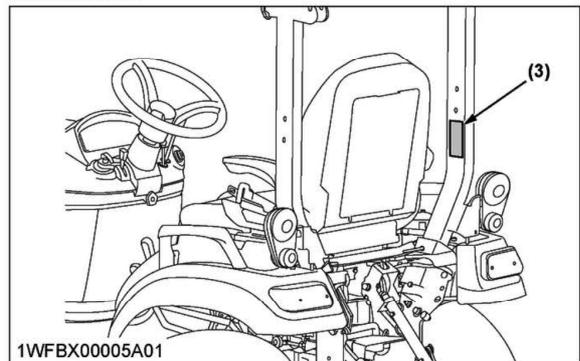
**ULTRA LOW SULFUR  
DIESEL FUEL ONLY**

1BDAHAOAP002A

(2) Part No. K2C51-6585-1  
(Serial No.: above H0001)  
Diesel fuel No fire only

(4) Part No. K3603-4718-1  
Use ear protection to avoid damage to hearing.  
Always wear protective glasses.

1BDABDMP011A



(3) Part No. K2591-6557-2  
Part No. K3611-8143-1

**WARNING**

**TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:**

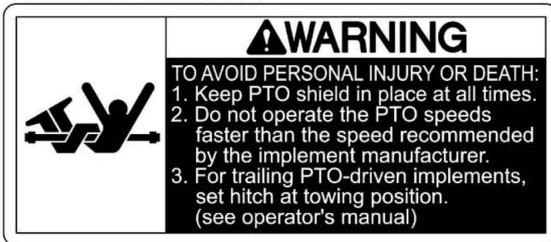
1. Keep Roll-Over Protective Structures (ROPS) in the upright and locked position.
2. Fasten SEAT BELT before operating.

**THERE IS NO OPERATOR PROTECTION WHEN THE ROPS IS IN THE FOLDED POSITION.**

1. Check the operating area and fold the ROPS only when absolutely necessary.
2. Do not wear SEAT BELT if ROPS is folded.
3. Raise and lock ROPS as soon as vertical clearance allows.
4. Read ROPS related instructions and warnings.

1HNAAACAP014E  
1HNAAACAP0690

- (1) Part No. K2581-6554-1  
Part No. K2871-6554-1



1AGAJBMAP0470

- (2) Part No. K2581-6555-1  
Part No. K2871-6555-1



1AGAJBMAP0480

- (3) Part No. K2871-6556-1



1AGAJBMAP0490

- (4) Part No. K2871-6552-2



1AGAJBMAP0500

- (5) Part No. K2651-6568-1  
Part No. 6C420-4744-1

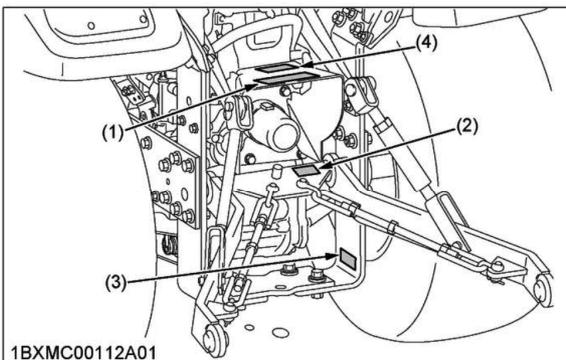


1AYAACAAP1000

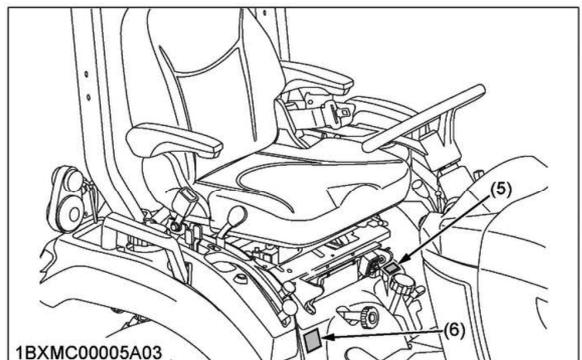
- (6) Part No. K2871-6558-1



1AGAJBMAP0530



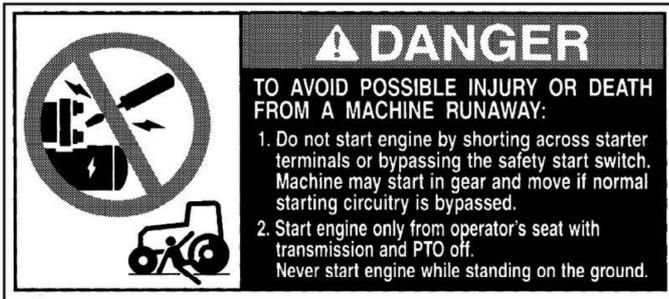
2RDZZ00002A01enUS



1BXMC00005A03

1. INFORMATION

(1) Part No. K2871-6541-1



1AGA JAXAP048E

(2) [BX1880, BX2380]

Part No. K2581-6547-1  
Part No. 6C090-4958-2  
Stay clear of engine fan and fanbelt.



1AGA JAXAP049E

(3) Part No. K2581-6543-1

Stay clear of engine fan and fanbelt.



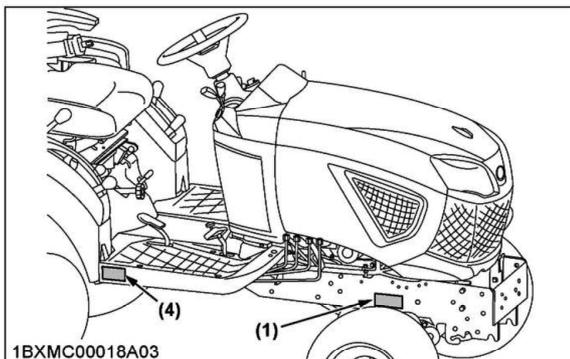
1AGA JAXAP052E

(4) [BX2380, BX2680]

Part No. K2774-6528-1  
Part No. K2C54-6528-1  
LH and RH  
Do not reach hands underneath fender to avoid pinching.

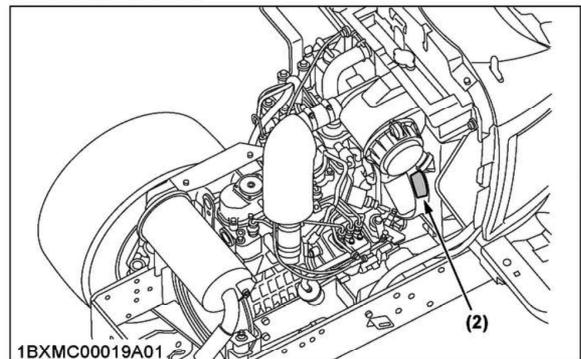


1WFBX00013000



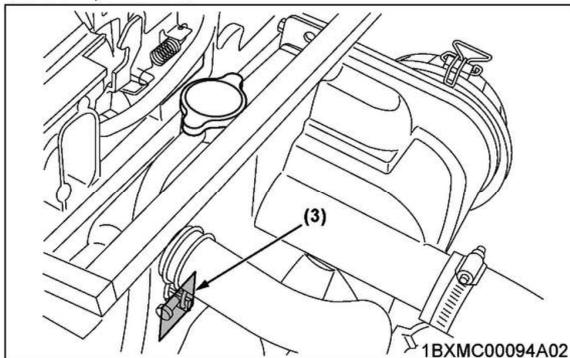
1BXM C00018A03

[BX1880, BX2380]



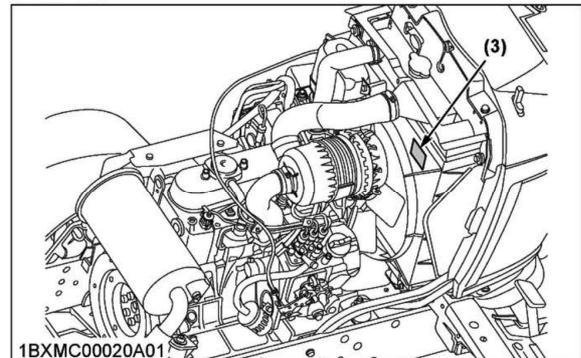
1BXM C00019A01

[BX1800, BX2380]



1BXM C00094A02

[BX2680]



1BXM C00020A01

2RDZZ00003A01enUS

(1) Part No. K2054-6545-2

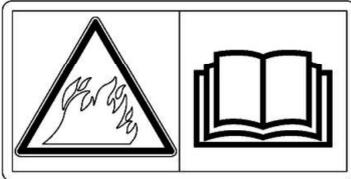
Part No. 6C446-4752-1

Before operating the machine, clean inside of the hood and around the mower belt.

Especially, dry grass and leaves around the exhaust manifold, the muffler or around the mower belt may ignite.

After using, air-blowing and pressure-washing, make sure there is nothing flammable around the exhaust manifold, the muffler or around the mower belt.

Grass, twigs, dirt or chaff in the hood may cause fire.



(2) Part No. K2871-6564-1

Part No. K2C51-6564-1

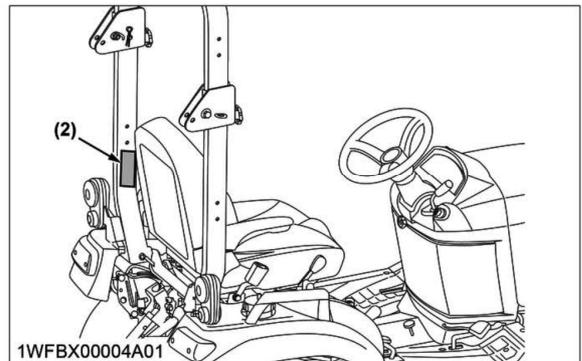
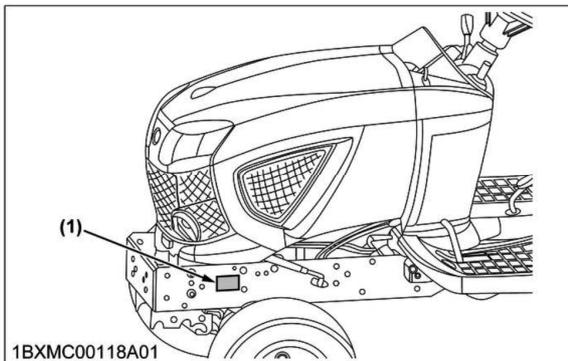
### **WARNING**

Never modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.

### **WARNING**

TO AVOID PERSONAL INJURY OR DEATH WHEN RAISING OR FOLDING ROPS:

1. Set parking brake and stop engine.
2. Remove any obstruction that may prevent raising or folding of the ROPS.
3. Do not allow any bystanders.
4. Always perform function from a stable position at the rear of the tractor.
5. Hold the top of the ROPS securely when raising or folding.
6. Make sure all pins are installed and locked.



2RDZZ00004A01enUS

1. INFORMATION

(1) Part No. K7591-6114-3

(A)	(B)	(C)	<p><b>DANGER EXPLOSIVE GASES</b> CIGARETTES, FLAMES OR SPARKS COULD CAUSE BATTERY TO EXPLODE. ALWAYS SHIELD EYES AND FACE FROM BATTERY. DO NOT CHARGE OR USE BOOSTER CABLES OR ADJUST POST CONNECTIONS WITHOUT PROPER INSTRUCTION AND TRAINING.</p> <p><b>POISON CAUSES SEVERE BURNS</b> CONTAINS SULFURIC ACID. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. IN EVENT OF ACCIDENT FLUSH WITH WATER AND CALL A PHYSICIAN IMMEDIATELY.</p> <p><b>KEEP OUT OF REACH OF CHILDREN</b></p> <p><b>California Proposition 65 WARNING :</b> This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.</p>
 FLAMMABLES	 SHIELD EYES	 KEEP OUT OF THE REACH OF CHILDREN	
 CAUTIONOUS OF SULFURIC ACID	 READ INSTRUCTION MANUAL CAREFULLY	 EXPLOSIVE	
(D)	(E)	(F)	

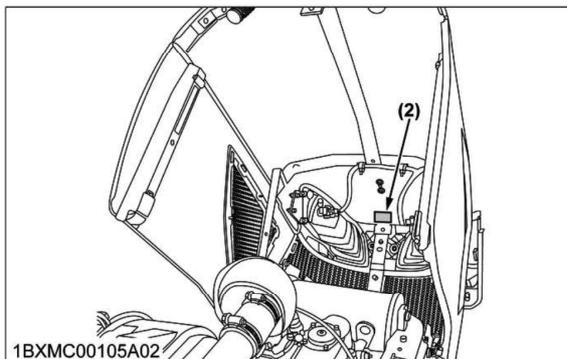
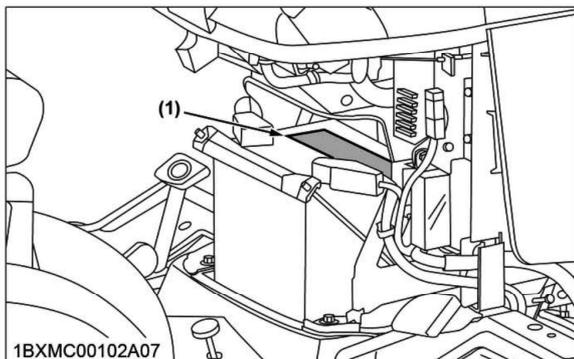
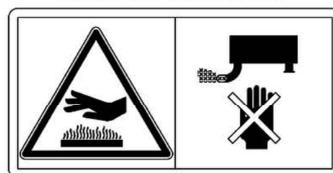
**TO AVOID INJURY FROM BATTERY GASES AND ACIDS**

- (A) • Keep away cigarettes, flames or sparks.
- (B) • Always shield eyes and face from the battery.
- (C) • Keep out of reach of children.
- (D) • Poison causes severe burns.
  - Contains sulfuric acid.
- (E) • Read and understand the operator's manual.
- (F) • Danger explosive gases.

(2) Part No. K2883-6527-1

Part No. K2C51-6527-1

Do not touch hot surface like muffler, etc.



2RDZZ00005A01enUS

SAFETY LABEL

2. Safety labels for mower

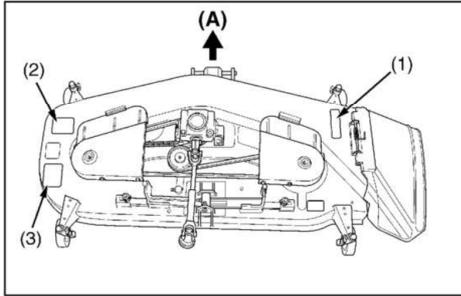
1. INFORMATION

Product: Kubota BX1880-AU BX2380-AU BX2680-AU RCK60 RCK54 RCK48 Service Manual  
Full Download: <https://www.aresairmanual.com/downloads/kubota-bx1880-au-bx2380-au-bx2680-au-rck60-rck54-rck48-service-manual/>

2. Safety labels for mower

The safety labels are installed on the mower. If a label becomes damaged, illegible or is not on the mower, replace it. The label part number is listed in the parts list.

[RCK60B-23BX, RCK54-23BX, RCK48-18BX]



(A) Forward

(1) Part No. K5112-7311-1

(3) Part No. K5763-4715-1



1BDACADAP003E



1BDACADAP002E

(2) Part No. K5112-7312-1



1BDACADAP004E

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