

# Kubota

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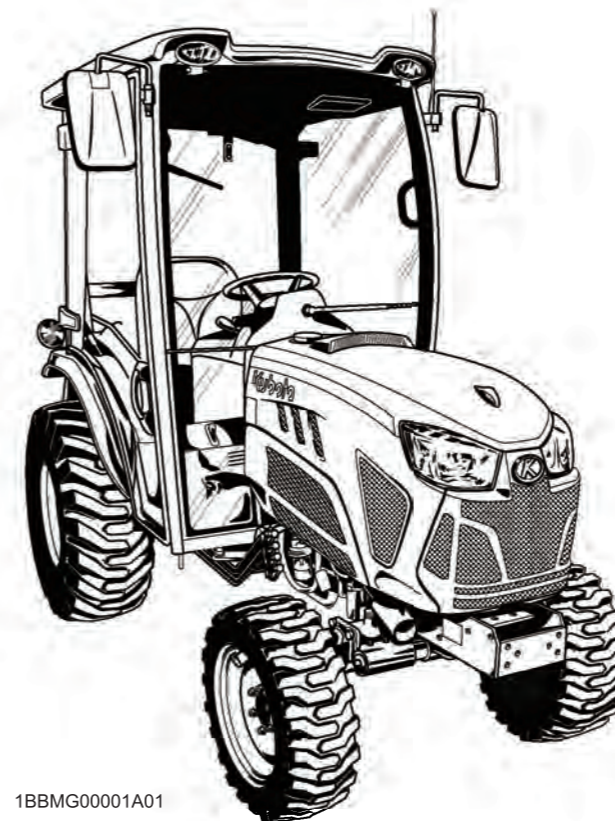
KUBOTA Corporation

English (U.S.A.)  
Code No. 6C830-6311-3

## OPERATOR'S MANUAL

# KUBOTA TRACTOR

MODELS LX2610·LX2610SU·LX3310



1BBMG00001A01



1BBMG00101A01

LX2610 · LX2610SU · LX3310

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# ABBREVIATION LIST

| Abbreviations | Definitions  |
|---------------|--|
| 2WD           | 2 Wheel Drive  |
| 4WD           | 4 Wheel Drive  |
| API           | American Petroleum Institute   |
| ASABE         | American Society of Agricultural and Biological Engineers, USA                             |
| ASTM          | American Society for Testing and Materials, USA  |
| DIN           | Deutsches Institut für Normung, GERMANY  |
| DT            | Dual Traction [4WD]  |
| fpm           | Feet Per Minute  |
| Hi-Lo         | High Speed-Low Speed   |
| HST           | Hydrostatic Transmission   |
| m/s           | Meters Per Second  |
| PTO           | Power Take Off   |
| RH/LH         | Right-hand and left-hand sides are determined by facing in the direction of forward travel |
| ROPS          | Roll-Over Protective Structures  |
| rpm           | Revolutions Per Minute   |
| r/s           | Revolutions Per Second   |
| SAE           | Society of Automotive Engineers, USA   |
| SMV           | Slow Moving Vehicle  |

## KUBOTA Corporation is ...

Since its inception in 1890, KUBOTA Corporation has grown to rank as one of the major firms in Japan.

To achieve this status, the company has through the years diversified the range of its products and services to a remarkable extent, until today, 30 plants and 35,000 employees produce over 1,000 different items, large and small.

All these products and all the services which accompany them, however, are unified by one central commitment. KUBOTA makes products which, taken on a national scale, are basic necessities. Products which are indispensable, products intended to help individuals and nations fulfill the potential inherent in their environment. For KUBOTA is the Basic Necessities Giant.

This potential includes water supply, food from the soil and from the sea, industrial development, architecture, construction and transportation.

Thousands of people depend on KUBOTA's know-how, technology, experience and customer service. You too can depend on KUBOTA.

### California Proposition 65

#### **⚠ WARNING ⚠**

Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### IMPORTANT

The engine in this machine is not equipped by the manufacturer with a standard spark arrester.

It is a violation of California Public Resource Code Section 4442 to use or operate this engine on or near any forest-covered, brush-covered land, or grass-covered land unless the exhaust system is equipped with a working spark arrester meeting state laws. Other states or federal areas may have similar laws.








**The above "IMPORTANT" text for the spark arrester is applicable to Model LX2610/LX2610SU alone.**








**Canadian Electromagnetic Compatibility (EMC):  
This machine complies with Industry Canada ICES-002.**

# UNIVERSAL SYMBOLS













As a guide to the operation of your tractor, various universal symbols have been utilized on the instruments and controls. The symbols are shown below with an indication of their meaning.

**■ General**











-  Safety alert symbol
-  Master system warning
-  Fast
-  Slow
-  Read operator's manual
-  Lock
-  Unlock

-  Engine - stop
-  Diesel preheat / glow plugs (low temperature start aid)
-  Emission control
-  Regeneration
-  Regeneration inhibit
-  Regeneration (switch)
-  Parked regeneration

**■ Engine-related**

-  Diesel fuel
-  Fuel level
-  Hour meter / elapsed operating hours
-  Engine coolant - temperature
-  Engine oil - pressure
-  Water separator
-  Engine - warning
-  Engine speed control
-  Engine - rotational speed  
n/min
-  Engine - rpm increase  
n/min
-  Engine - run
-  Engine - start

**■ Vehicle body-related**

-  Tractor forward movement - overhead view
-  Tractor rearward movement - overhead view
-  4-wheel drive - on
-  4-wheel drive - off
-  Cruise control / speed set
-  Clutch
-  Brake
-  Parking brake
-  Differential lock
-  Steering wheel - tilt control

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■ PTO-related



PTO - off (disengaged)



PTO - off (disengaged)



PTO - on (engaged)



PTO - on (engaged)

■ Hydraulic-related



Position control - raised position



Position control - lowered position



3-point lowering speed control



Remote cylinder - retract



Remote cylinder - extend



Remote cylinder - float

■ Electric-related



Battery charging condition



Headlight



Work light



Turn signal



Hazard warning lights



Audible warning device



Front wiper/washer switch



Rear wiper/washer switch



Rear window defroster

# FOREWORD

You are now the proud owner of a Kubota tractor. This tractor is a product of Kubota quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is Kubota's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. Kubota distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.

## 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.

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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.

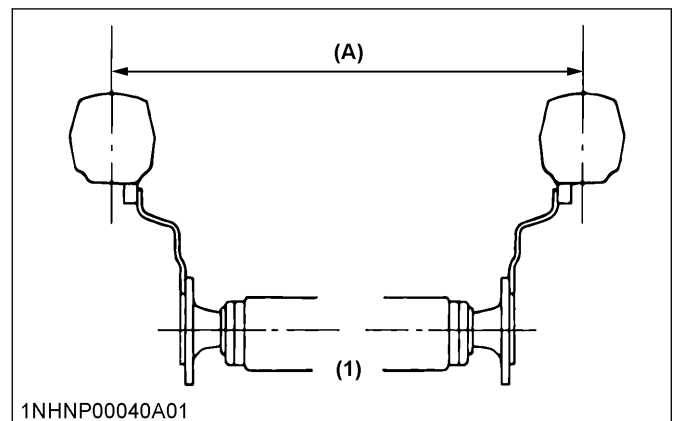
### BEFORE OPERATING THE TRACTOR

Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.

#### 1. General

- Pay special attention to the safety labels on the tractor.
- Do not operate the tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
- Carefully check the vicinity before operating tractor or any implement attached to it.  
Do not allow any bystanders around or near tractor during operation.
- Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
- Never wear loose, torn, or bulky clothing around the tractor. It may catch on moving parts or controls, leading to the risk of an accident.  
Use additional safety items, such as a 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 any time. The operator must remain in the tractor seat during operation.
- 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. (See MAINTENANCE on page 103.)
- Keep your tractor clean. Dirt, grease, and trash buildup may contribute to fires and lead to personal injury.
- Use only implements meeting the specifications listed in this manual or implements approved by Kubota. (See IMPLEMENT LIMITATIONS on page 35.)

- 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 balance 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 TIRES, WHEELS AND BALLAST on page 90.)



(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.

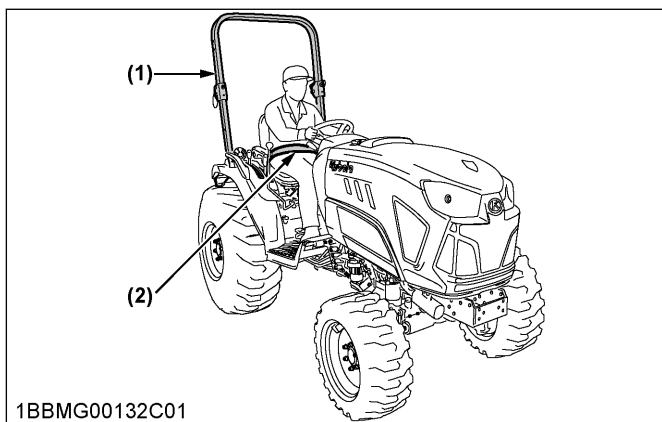
#### 2. CAB and ROPS

- 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.
- 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.
- If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
- Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.

# SAFE OPERATION

- If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
- 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.
- Always use the seat belt if the tractor has a CAB or ROPS. Do not use the seat belt if a foldable ROPS is down or there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.

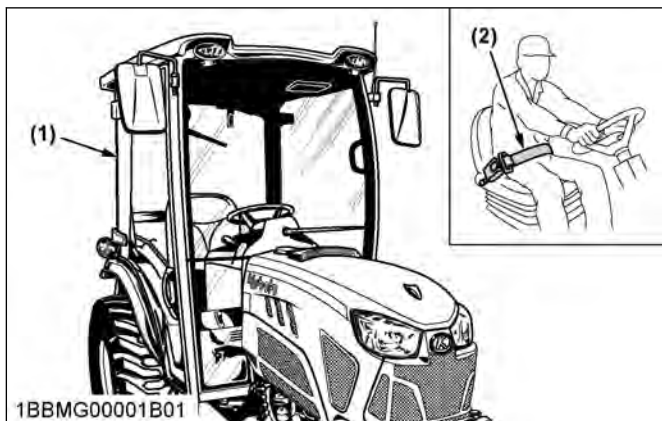
## ROPS model



1BBMG00132C01

- (1) ROPS
- (2) Seat belt

## CAB model



1BBMG00001B01

- (1) CAB
- (2) Seat belt

understanding the equipment and environmental conditions at the time of use.

Some prohibited uses which can affect overturning hazards include traveling and turning with implements, loads carried too high and so on. This manual sets forth some of the obvious risks, but the list is not, and cannot be, exhaustive. It is the operator's responsibility to be alert for any equipment or environmental condition that could compromise safe operation.

## 1. Starting to operate the tractor

- Always sit in the operator's seat when starting the engine or operating levers or controls. Adjust seat per instructions in the operating the tractor section. Never start the engine while standing on the ground.
- Before starting the engine, make sure that all levers (including auxiliary control levers) are in their neutral positions, that the parking brake is engaged, and that both the clutch and the power take-off (PTO) are disengaged or "OFF".  
Fasten the seat belt if the tractor has a CAB or a foldable ROPS in the upright and locked position.
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch. The machine may start in gear and move if the normal starting circuitry is bypassed.
- Do not operate or idle the engine in an unventilated area. Carbon monoxide gas is colorless, odorless, and deadly.
- Check that the operator presence control (OPC) system is functioning correctly before each time you use the tractor.  
Test the safety systems.

(See Checking engine start system on page 117.)

Do not operate unless they are functioning correctly.

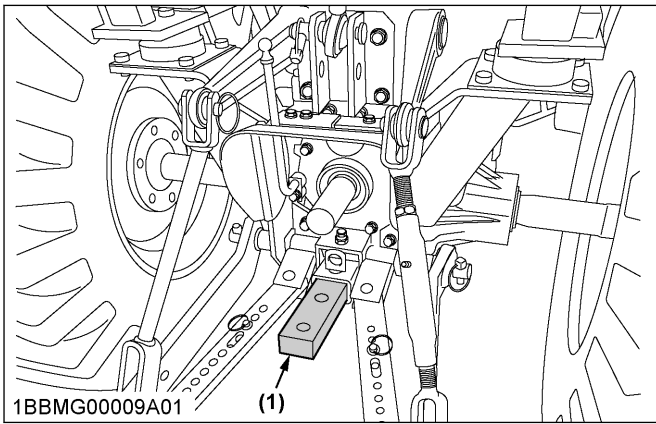
## 2. Working the tractor

- Pull only from the drawbar. Never hitch to axle housing or any other point except the drawbar; such arrangements will increase the risk of serious personal injury or death due to a tractor upset.

## OPERATING THE TRACTOR

Operator safety is a priority. Safe operation, specifically with respect to overturning hazards, entails

# ! SAFE OPERATION



(1) Drawbar

- For trailing PTO-driven implements, set the drawbar to the towing position.
- Attach pulled or towed loads to the drawbar only.
- Keep all shields and guards in place. Replace any that are missing or damaged.
- Avoid sudden starts. To avoid upsets, slow down when turning, on uneven ground, and before stopping.
- The tractor cannot turn with the differential locked and attempting to do so could be dangerous.
- Do not operate near ditches, holes, embankments, or other ground surface features which may collapse under the tractor's weight. The risk of tractor upset is even higher when the ground is loose or wet. Tall grass can hide obstacles; walk the area first to be sure.
- Watch where you are going at all times. Watch for and avoid obstacles. Be alert at row ends, near trees, and other obstructions.
- When working in groups, always let the others know what you are going to do before you do it.
- Never try to get on or off a moving tractor.
- Always sit in the operator's seat when operating levers or controls.
- Do not stand between tractor and implement or trailed vehicle unless the parking brake is applied.

## 3. Safety for children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to machines and the work they do.

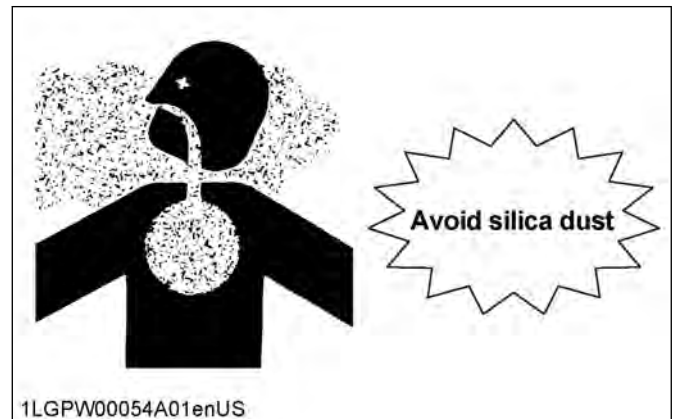
- Never assume that children will remain where you last saw them.
- Keep children out of the work area and under the watchful eye of another responsible adult.
- Be alert and shut your machine down if children enter the work area.
- Never carry children on your machine. There is no safe place for them to ride. They may fall off and be run over or interfere with your control of the machine.

- Never allow children to operate the machine even under adult supervision.
- Never allow children to play on the machine or on the implement.
- Use extra caution when backing up. Look behind and down to make sure area is clear before moving.

## 4. Avoiding crystalline silica (quartz) dust

To avoid serious injury or death from silica dust:

- Avoid exposure to dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis). Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing and boring of material containing crystalline silica can produce dust containing crystalline silica.



- If dust which contains crystalline silica is present, there are guidelines which should be followed:
  - Be aware of the potential health effects of crystalline silica and that smoking may add to the damage.
  - Be aware of and follow OSHA (or other local, State or Federal) guidelines for exposure to airborne crystalline silica.
  - Know the work operations where exposure to crystalline silica may occur.
  - Participate in air monitoring or training programs offered by the employer.
  - Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed CABs with positive pressure air conditioning, if the machine has such equipment. Otherwise respirators shall be worn.
  - Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter

# ! SAFE OPERATION

the respirator in any way. Workers who use tight-fitting respirators cannot have beards/mustaches which interfere with the respirator seal to the face.

- If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- Store food, drink and personal belongings away from the work area.
- Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

## 5. Operating on slopes

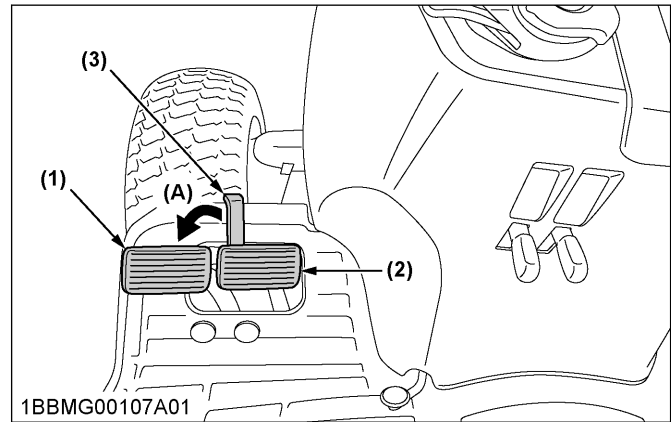
Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution.

- To avoid upsets, always back up steep slopes. If you cannot back up the slope or if you feel uneasy on it, do not operate on it. Stay off slopes too steep for safe operation.
- Driving forward out of a ditch, mired condition or up a steep slope increases the risk of rear rollovers. Always back out of these situations. Extra caution is required with 4-wheel drive models because their increased traction can give the operator false confidence in the tractor's ability to climb slopes.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, direction or braking, nor make sudden motions with the steering wheel.
- Avoid disengaging the clutch or changing gears when climbing or going down a slope. If on a slope, disengaging the clutch or changing gears to neutral could cause the loss of control.
- Special attention should be paid to the weight and location of implements and loads as such will affect the stability of the tractor.
- To improve stability on slopes, set the widest possible wheel tread.  
(See TIRES, WHEELS AND BALLAST on page 90.)  
Follow the recommendations for proper ballasting.

## 6. Driving the tractor on the road

- Lock the 2 brake pedals together to help assure straight-line stops. Uneven braking at road speeds could cause the tractor to tip over.

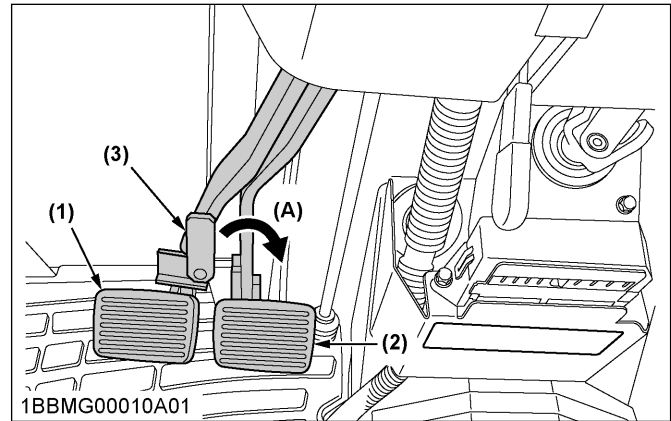
### ROPS model



- (1) Brake pedal (LH)
- (2) Brake pedal (RH)
- (3) Brake pedal lock

(A) "Lock the brake pedals whenever traveling on the road"

### CAB model



- (1) Brake pedal (LH)
- (2) Brake pedal (RH)
- (3) Brake pedal lock

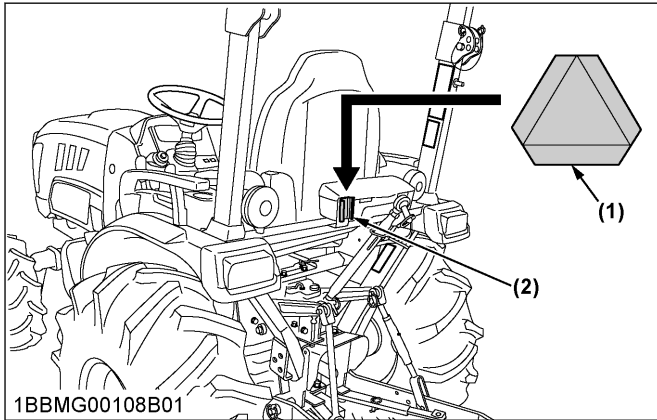
(A) "Lock the brake pedals whenever traveling on the road"

- Check the front wheel engagement. The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.
- Always slow down the tractor before turning. Turning at high speed may tip over the tractor.
- Make sure that the Slow Moving Vehicle (SMV) sign is clean and visible. Use hazard lights and turn signals as required.



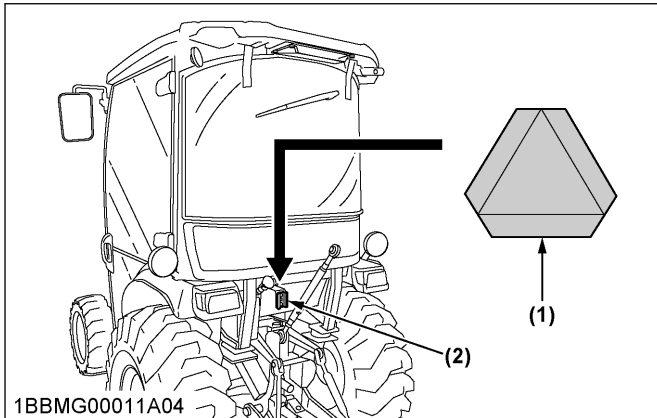
# ! SAFE OPERATION

## ROPS model



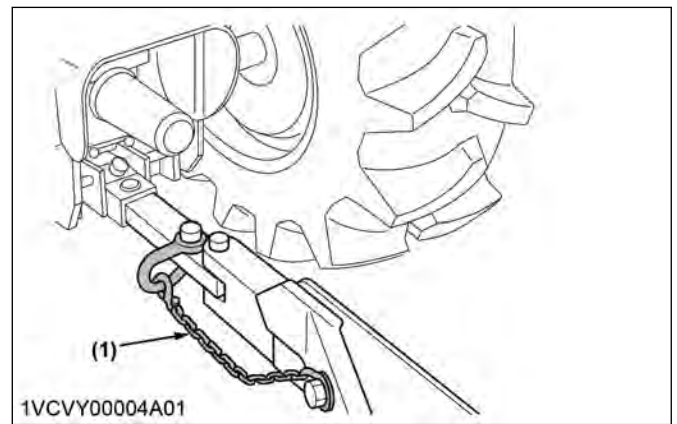
- (1) SMV emblem
- (2) Bracket

## CAB model



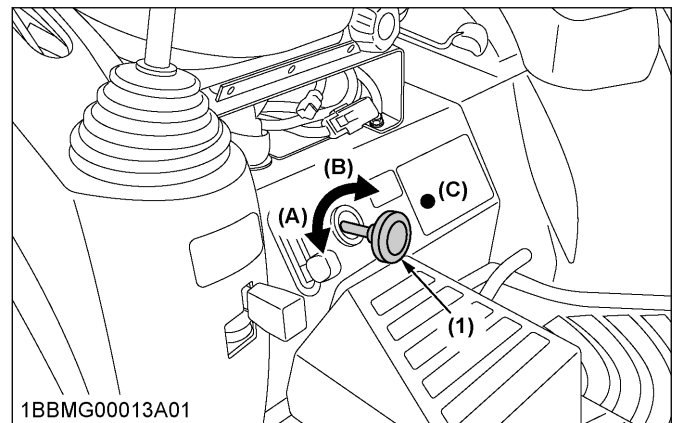
- (1) SMV emblem
- (2) Bracket

- Observe all local traffic and safety regulations.
- Turn the headlights on. Dim them when meeting another vehicle.
- Drive at speeds that allow you to maintain control at all times.
- Do not apply the differential lock while traveling at road speeds. The tractor may run out of control.
- Avoid sudden motions of the steering wheel as they can lead to a dangerous loss of stability. The risk is especially high when the tractor is traveling at road speeds.
- Keep the ROPS in the "UP" position and wear the seat belt when driving the tractor on the road. Otherwise, you will not be protected in the event of a tractor roll-over.
- Do not operate an implement while the tractor is on the road. Lock the 3-point hitch in the raised position.
- When towing other equipment, use a safety chain and place an SMV emblem on it as well.



- (1) Safety chain

- Set the 3-point hitch lowering speed knob in the "LOCK" position to hold the implement in the raised position.



- (1) 3-point hitch lowering speed knob
- (A) "FAST"
- (B) "SLOW"
- (C) "LOCK"

## PARKING THE TRACTOR

- Disengage the PTO, lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine, remove the key from the ignition and lock the CAB door (if equipped).  
Leaving transmission in gear with the engine stopped will not prevent the tractor from rolling.
- Make sure that the tractor has come to a complete stop before dismounting.
- Avoid parking on steep slopes. If at all possible, park on a firm and level surface; if not, park across a slope and chock the wheels.  
Failure to comply with this warning may allow the tractor to move and could cause injury or death.

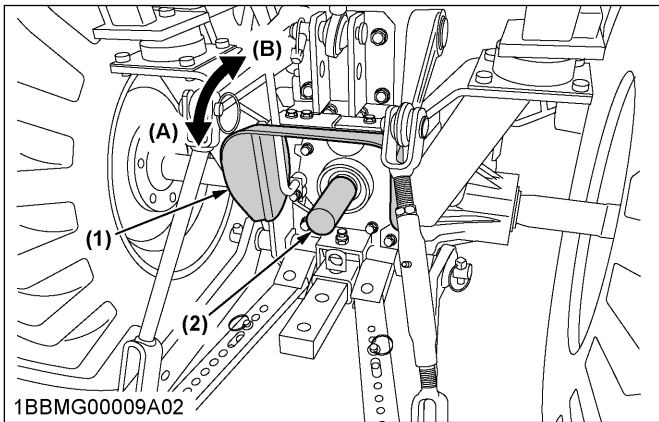
## OPERATING THE PTO

- Wait until all moving components have completely stopped before getting off the tractor, connecting,

# ⚠️ SAFE OPERATION

disconnecting, adjusting, cleaning, or servicing any PTO driven equipment.

- Keep the PTO shaft cover in place at all times. Put back the PTO shaft cap when the shaft is not in use.

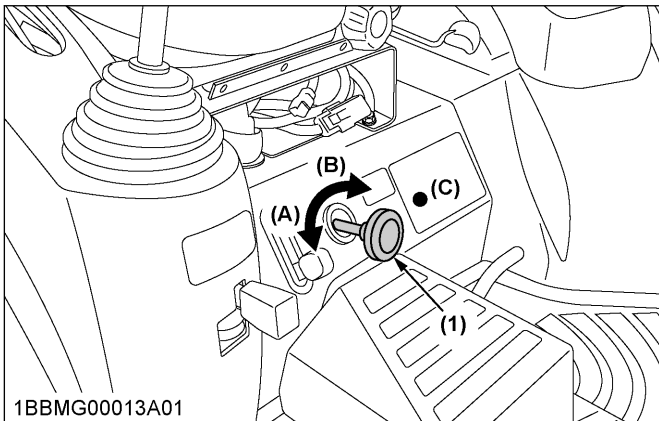


(1) PTO shaft cover (A) "NORMAL POSITION"  
(2) PTO shaft cap (B) "RAISED POSITION"

- Before installing or using PTO driven equipment, read the manufacturer's manual and review the safety labels attached to the equipment.
- When operating stationary PTO driven equipment, always apply the tractor parking brake and place chocks behind and in front of the rear wheels. Stay clear of all rotating parts. Never step over rotating parts.

## USING 3-POINT HITCH

- Use the 3-point hitch only with equipment designed for the appropriate category of 3-point hitch usage.
- When using a 3-point hitch mounted implement, be sure to install the proper counterbalance weight on the front of the tractor.
- When transporting on the road, set the 3-point hitch lowering speed knob in the "LOCK" position to hold the implement in the raised position.

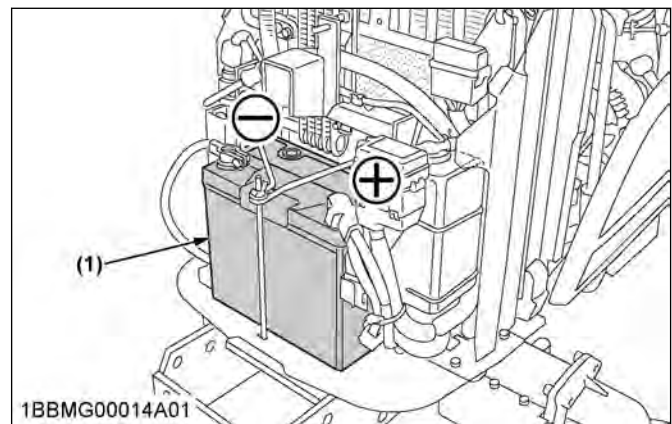


(1) 3-point hitch lowering speed knob (A) "FAST"  
(B) "SLOW"  
(C) "LOCK"

## SERVICING THE TRACTOR

Before servicing the tractor, park it on a firm, flat and level surface, set the parking brake, lower all implements to the ground, place the gear shift lever in neutral, stop the engine and remove the key.

- Allow the tractor time to cool off before working on or near the engine, muffler, radiator and so on.
- Do not remove radiator cap while the coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely. If the tractor has a coolant recovery tank, add coolant or water to the recovery tank, not the radiator. (See Checking coolant level on page 113.)
- Always stop the engine before refueling. Avoid spills and overfilling.
- Do not smoke when working around the battery or when refueling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosive hazard because it gives off hydrogen and oxygen especially when recharging.
- Before "jump-starting" a dead battery, read and follow all of the instructions. (See JUMP STARTING on page 55.)
- Keep first aid kit and fire extinguisher handy at all times.
- Disconnect the battery's ground cable before working on or near electric components.
- To avoid the possibility of battery explosion, do not use or charge the refillable type battery if the fluid level is below the [LOWER] (lower limit level) mark. Check the fluid level regularly and add distilled water as required so that the fluid level is between the [UPPER] and [LOWER] levels.
- To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable (-) first and reconnect it last.

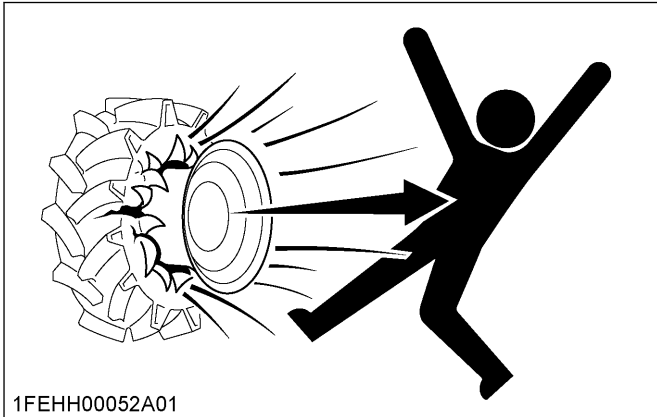


(1) Battery

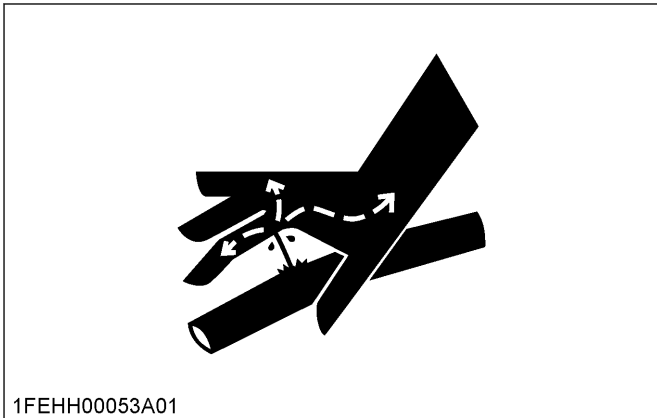
- Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.

# ! SAFE OPERATION

- Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure shown in the operator's manual.

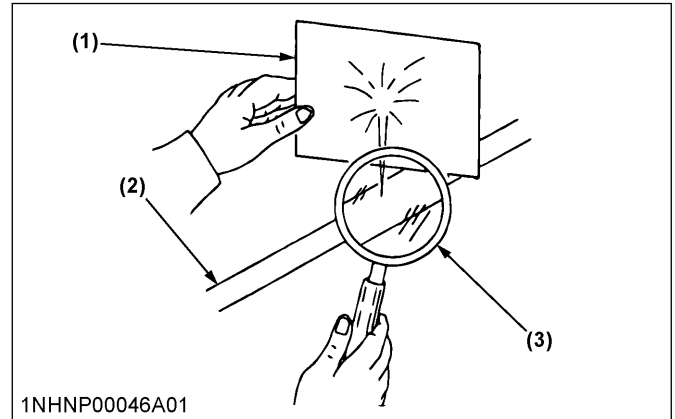


- Securely support the tractor when either changing wheels or adjusting the wheel tread width.
- Make sure that wheel bolts have been tightened to the specified torque.
- Do not work under any hydraulically supported devices. They can settle, suddenly leak down, or be accidentally lowered. If it is necessary to work under the tractor or any machine elements for servicing or adjustment, securely support them with stands or suitable blocking beforehand.
- Escaping hydraulic fluid under pressure has sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting hydraulic lines, be sure to release all residual pressure. Before applying pressure to the hydraulic system, make sure that all connections are tight and that all lines, pipes, and hoses are free of damage.



- To avoid fire hazard:  
After use and pressure-washing, make sure there is nothing flammable near the exhaust pipe. Grass or twigs under the hood may cause fire.
- Fluid escaping from pinholes may be invisible. Do not use hands to search for suspected leaks; use a piece of cardboard or wood. Use of safety goggles or other eye protection is also highly recommended. If injured by escaping fluid, see a medical doctor at

once. This fluid will produce gangrene or severe allergic reactions.



- (1) Cardboard
- (2) Hydraulic line
- (3) Magnifying glass

- The improper disposal or burning of waste causes environmental pollution and can be punishable by your local laws and regulations.
  - When draining fluids from the tractor, place a container underneath the drain port.
  - Do not pour waste onto the ground, down a drain, or into any water source (such as rivers, streams, lakes, marshes, seas, and oceans).
  - Waste products such as used oil, fuel, coolant, hydraulic fluid, urea aqueous solution (DEF/AdBlue®), refrigerant, solvent, filters, rubber, batteries and harmful substances, can harm the environment, people, pets and wildlife. Please dispose of properly. See your local recycling center or KUBOTA Dealer to learn how to recycle or get rid of waste products.
- Do not open the high-pressure fuel system. High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt to repair fuel lines, sensors, or any other components between the high-pressure fuel pump and injectors on engines with high-pressure common rail fuel system.
- To avoid hazardous high voltage, turn the key switch to the "OFF" position if it is necessary to check or repair the computer, harness or connectors.
- During diesel particulate filter (hereinafter called DPF) regenerating operations, exhaust gases and exhaust filter components reach temperatures hot enough to burn people or ignite or melt common materials.
- Keep the tractor away from people, animals or structures which may be susceptible to harm or damage from hot exhaust gases.
- To prevent fires, keep the DPF muffler and its surroundings clear of anything flammable and keep clean at all times.



## SAFE OPERATION

- During regeneration, white exhaust gas may be visible. Do not allow regeneration to happen in an unventilated place.
- During regeneration, do not leave the tractor.

# ! SAFE OPERATION

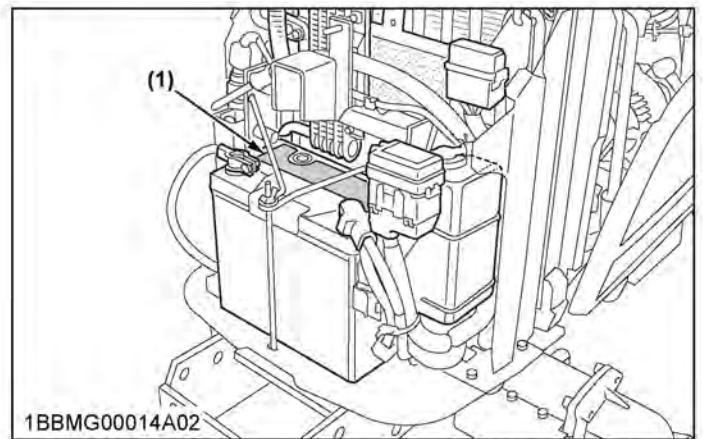
## SAFETY LABELS

(1) Part No. 6C300-3012-3  
[except LX3310HSDCC]

|   |   |  |  |  |
|---|---|--|--|--|
| <b>S.O.C Indicator</b><br> OK<br> Charge<br> Replace |  FLAMMABLES<br> SHIELD EYES<br> KEEP OUT OF THE REACH OF CHILDREN<br> CAUTIONS OF SULFURIC ACID<br> READ INSTRUCTION MANUAL CAREFULLY<br> EXPLOSIVE | <b>! DANGER</b><br>-DUE TO HYDROGEN GAS GENERATED FROM BATTERY, HANDLING WITHOUT CARE CAN CAUSE FIRE AND EXPLOSION.<br>-THIS 12V BATTERY IS ONLY FOR STARTING ENGINE. DO NOT APPLY THIS PRODUCT FOR OTHER USES.<br>-CHARGE THIS BATTERY ONLY AT WELL VENTILATED PLACES, AND AVOID SHORTS OR SPARKS.<br>-REFER TO THE INSTRUCTION MANUAL OF VEHICLE OR BATTERY BEFORE USING BOOSTER CABLE.<br>-SULFURIC ACID MAY CAUSE BLINDNESS OR SEVERE BURN. IN CASE EYES, SKIN, CLOTHES OR ANY ARTICLES ARE STAINED WITH ACID, FLUSH OBJECTS IMMEDIATELY WITH WATER. IF ACID BEING SWALLOWED, DRINK PLENTY OF WATER PROMPTLY. IN CASE OF ACCIDENTAL CONTACT, CONSULT A DOCTOR IMMEDIATELY.<br>-BATTERY FILLED WITH ACID (DO NOT TILT OR SPILL) -FLAMMABLE. DO NOT CHARGE NEAR FIRE OR SPARKS<br>-DO NOT CHARGE RAPIDLY -DO NOT DISASSEMBLE THE BATTERY (SEALED TYPE) | <b>CALIFORNIA PROPOSITION 65</b><br><b>! 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> | <br>RECYCLE<br>DK 85495 |
|   |   |  |  |  |


(1) Part No. 6C430-3012-2  
[LX3310HSDCC]

|   |   |  |  |   |
|---|---|--|--|---|
| <b>S.O.C INDICATOR</b><br> OK<br> CHARGE BATTERY<br> REPLACE BATTERY |  FLAMMABLES<br> SHIELD EYES<br> KEEP OUT OF THE REACH OF CHILDREN<br> CAUTIONS OF SULFURIC ACID<br> READ INSTRUCTION MANUAL CAREFULLY<br> EXPLOSIVE | <b>! DANGER</b><br>-DUE TO HYDROGEN GAS GENERATED FROM BATTERY, HANDLING WITHOUT CARE CAN CAUSE FIRE AND EXPLOSION.<br>-THIS 12V BATTERY IS ONLY FOR STARTING ENGINE. DO NOT APPLY THIS PRODUCT FOR OTHER USES.<br>-CHARGE THIS BATTERY ONLY AT WELL VENTILATED PLACES, AND AVOID SHORTS OR SPARKS.<br>-REFER TO THE INSTRUCTION MANUAL OF VEHICLE OR BATTERY BEFORE USING BOOSTER CABLE.<br>-SULFURIC ACID MAY CAUSE BLINDNESS OR SEVERE BURN. IN CASE EYES, SKIN, CLOTHES OR ANY ARTICLES ARE STAINED WITH ACID, FLUSH OBJECTS IMMEDIATELY WITH WATER. IF ACID BEING SWALLOWED, DRINK PLENTY OF WATER PROMPTLY. IN CASE OF ACCIDENTAL CONTACT, CONSULT A DOCTOR IMMEDIATELY.<br>-BATTERY FILLED WITH ACID (DO NOT TILT OR SPILL) -FLAMMABLE. DO NOT CHARGE NEAR FIRE OR SPARKS<br>-DO NOT CHARGE RAPIDLY -DO NOT DISASSEMBLE THE BATTERY (SEALED TYPE) | <b>PROPOSITION 65 WARNING</b><br>BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM. WASH HANDS AFTER HANDLING. | <br>RECYCLE<br>DK 85495 |
|   |   |  |  |   |



# SAFE OPERATION

(1) Part No. 6C540-4752-1

** WARNING**

**TO AVOID FIRE HAZARD :**  
After use and/or pressure-washing, make sure there is nothing flammable near the exhaust pipe. Grass or twigs under the bonnet may cause fire.

(2) Part No. 3N600-4958-1

[LX3310 only]  
Do not touch hot surface like muffler, etc.



(3) Part No. 3B794-4719-1  
Do not touch hot surface like muffler, etc.



(4) Part No. 6C430-4965-1

** DANGER**

**TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.**

1. Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.
2. Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.

(5) Part No. 6C090-4958-2

Do not get your hands close to engine fan and fan belt.



(6) Part No. 3S205-9868-1  
[LX3310 only]

** WARNING**

**TO AVOID PERSONAL INJURY OR DEATH:**  
When the Diesel Particulate Filter(DPF) is in the regenerating mode, the exhaust gas and the DPF muffler become hot.  
During regeneration, take into account that the muffler will be very hot and keep the machine away from other people, animals, plants, and flammable material. Also keep the area near the DPF muffler clean and away from flammable material.

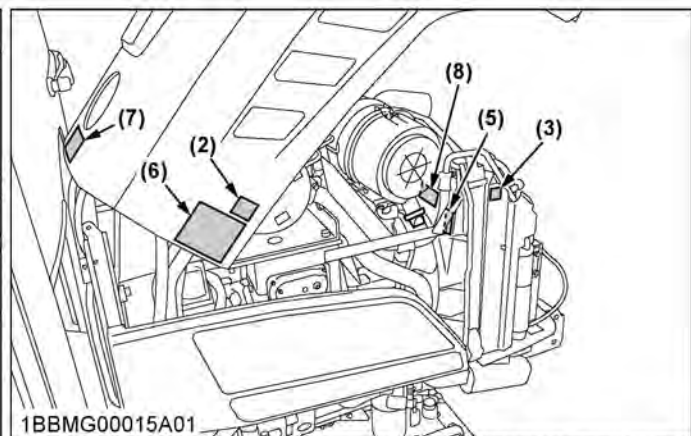
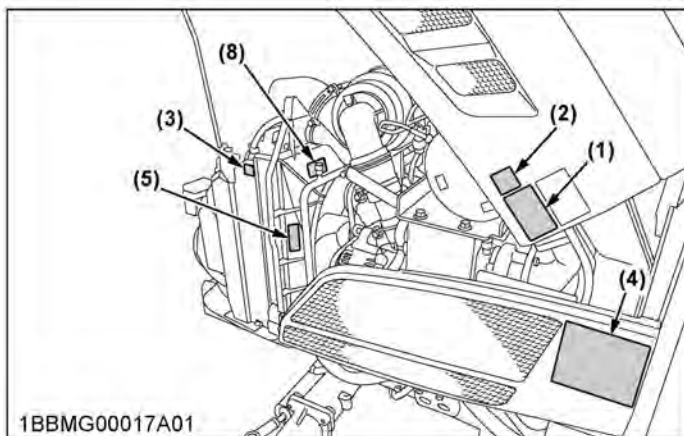
(7) Part No. TC420-4956-1

**ULTRA LOW SULFUR DIESEL FUEL ONLY**

(8) Part No. 6C430-4959-2



[LX3310: both sides, other models: LH side only]  
Do not touch hot surface like muffler, etc.



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ROPS model

(1) Part No. TA240-9848-2

|   |  |
|---|--|
|  | <p><b>! WARNING</b></p> <p><b>TO AVOID INJURY OR DEATH FROM ROLL-OVER:</b></p> <ul style="list-style-type: none"> <li>• Keep Roll-Over Protective Structures (ROPS) in the upright and locked position</li> <li>• Fasten SEAT BELT before operating</li> </ul>   |
|  | <p><b>THERE IS NO OPERATOR PROTECTION WHEN THE ROPS IS IN THE FOLDED POSITION:</b></p> <ul style="list-style-type: none"> <li>• Check the operating area and fold the ROPS only when absolutely necessary</li> <li>• Do not wear SEAT BELT if ROPS is folded</li> <li>• Raise and lock ROPS as soon as vertical clearance allows</li> <li>• Read ROPS related instructions and warnings</li> </ul> |

(2) Part No. 6C540-4743-1

**! WARNING**

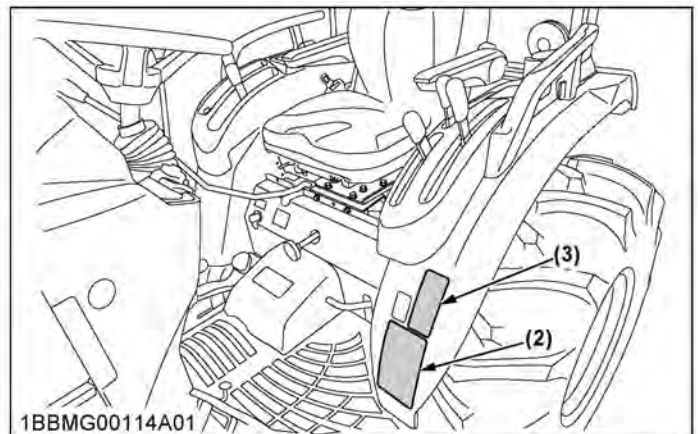
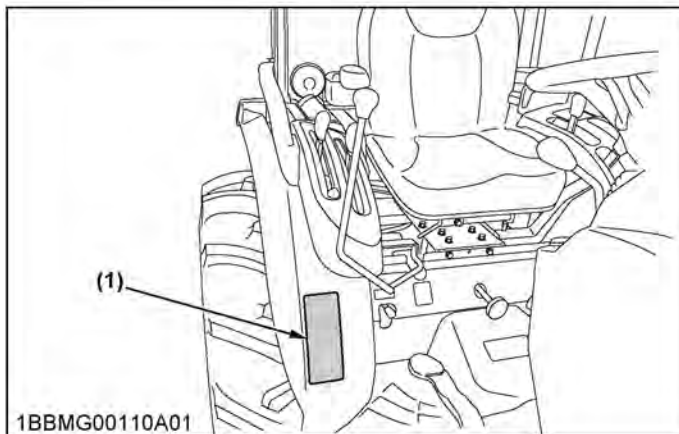
**TO AVOID PERSONAL INJURY OR DEATH:**

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. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

(3) Part No. 6C410-4743-1

|   |   |
|---|---|
| <p><b>! WARNING</b></p>   | <p><b>BEFORE DISMOUNTING TRACTOR:</b></p> <ol style="list-style-type: none"> <li>1. ALWAYS SET PARKING BRAKE.<br/>Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.</li> <li>2. PARK ON LEVEL GROUND WHENEVER POSSIBLE.<br/>If parking on a slope, position tractor across the slope.</li> <li>3. LOWER ALL IMPLEMENTS TO THE GROUND.</li> <li>4. STOP THE ENGINE.</li> </ol> |
|  |   |

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# ⚠️ SAFE OPERATION

ROPS model

(1) Part No. 6C420-4744-1  
[LX2610 only]

(2) Part No. 6C430-4754-1

(3) Part No. 6C540-9554-1

(4) Part No. 6C830-4747-1

**⚠️ WARNING**

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

1AGAIHFAP069A

California Proposition 65

**⚠️ WARNING ⚠️**

Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

1AGBCAAAP795A

**⚠️ 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 :**

- 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.

**⚠️ WARNING**

**TO AVOID EXPOSURE TO DUST CONTAINING SILICA PARTICLES:**

- This dust can cause serious injury to the lungs under some exposure levels.
- Be aware of and follow the OSHA (or other regulatory body) guidelines for exposure to airborne crystalline silica.
- To meet OSHA silica guidelines, use appropriate personal protective equipment and dust abatement systems, such as waterspray systems.

(5) Part No. 6C200-4959-1

**⚠️ WARNING**

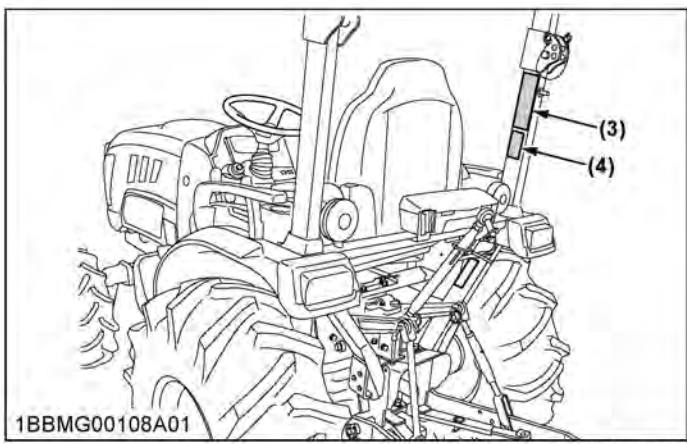
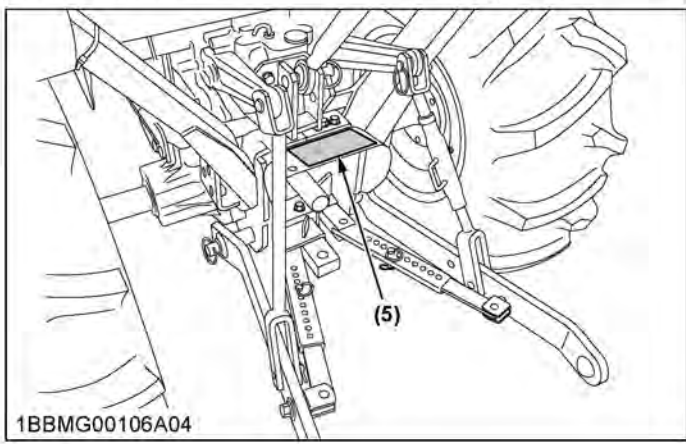
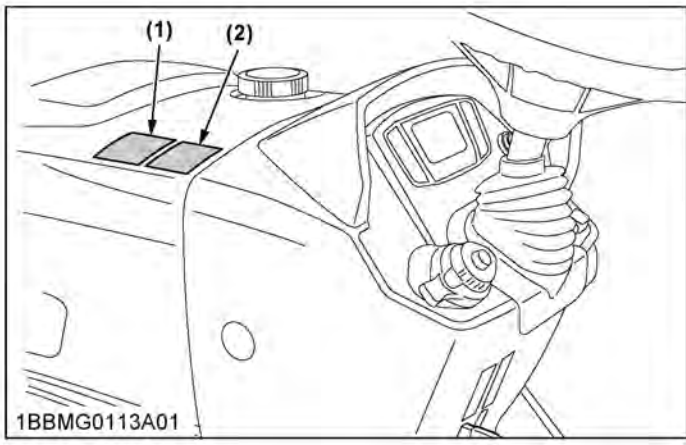
**TO AVOID PERSONAL INJURY:**

1. Attach pulled or towed loads to the drawbar only.
2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.

**⚠️ WARNING**

**TO AVOID PERSONAL INJURY:**

1. Keep PTO shield in place at all times.
2. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.
3. For trailing PTO-driven implements, set drawbar at towing position. (see operator's manual)



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# ! SAFE OPERATION

CAB model

(1) Part No. 6C540-4743-1

**! 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. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

(2) Part No. 6C420-4744-1  
[LX2610 only]

**! WARNING**

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

1AGAIHFAP069A

(3) Part No. 6C430-4752-1

**! CAUTION**

**TO AVOID PERSONAL INJURY:**  
Do not put your hands into the lever guide slot, as the cruise lever will shift back swiftly when the brake pedal is applied.

1AGAEAAP001A

(5) Part No. 6C430-4753-1

**! WARNING**



**TO AVOID INJURY OR DEATH FROM ROLL-OVER:**  
Always use seat belt when driving.

1AGAMAQAP0780

(6) Part No. 6C830-4747-1

**! WARNING**

**TO AVOID EXPOSURE TO DUST CONTAINING SILICA PARTICLES:**

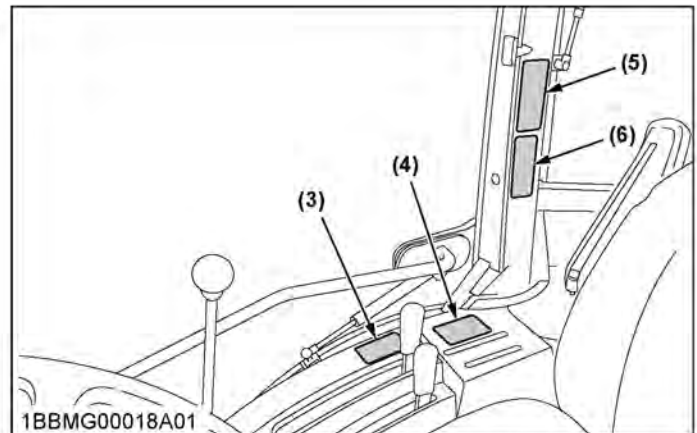
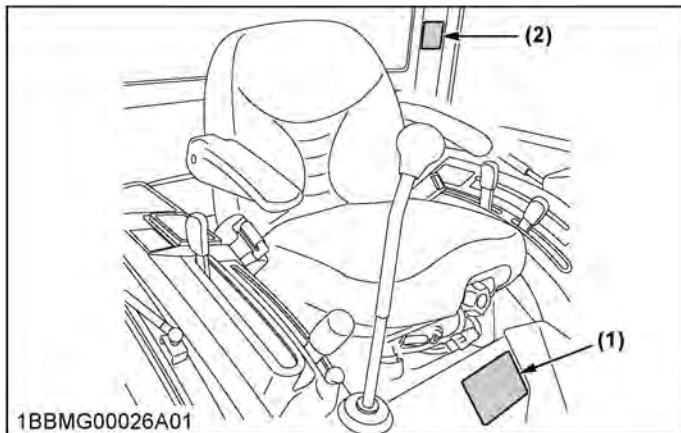
- This dust can cause serious injury to the lungs under some exposure levels.
- Be aware of and follow the OSHA (or other regulatory body) guidelines for exposure to airborne crystalline silica.
- To meet OSHA silica guidelines, use appropriate personal protective equipment and dust abatement systems, such as waterspray systems.

(4) Part No. 6C830-4751-1

**! WARNING**

**TO AVOID PERSONAL INJURY OR DEATH: BEFORE STARTING THE ENGINE**

1. Make sure the parking brake is set.
2. Make sure the range gear shift lever (L-M-H) is in "NEUTRAL" position.
3. Make sure the cruise control lever is in "NEUTRAL" position (Far back position).



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# SAFE OPERATION

CAB model

(1) Part No. 6C230-4743-1

(2) Part No. 6C430-4754-1

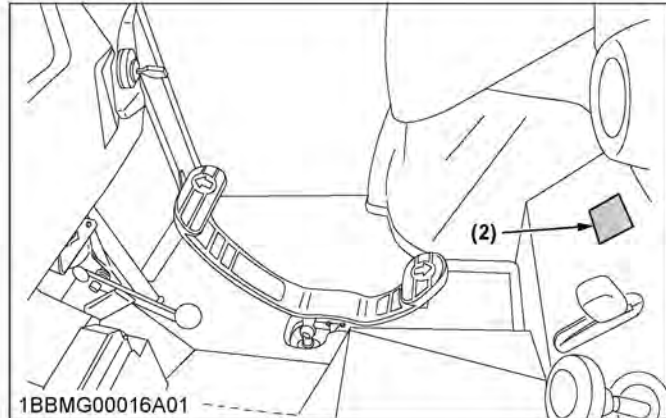
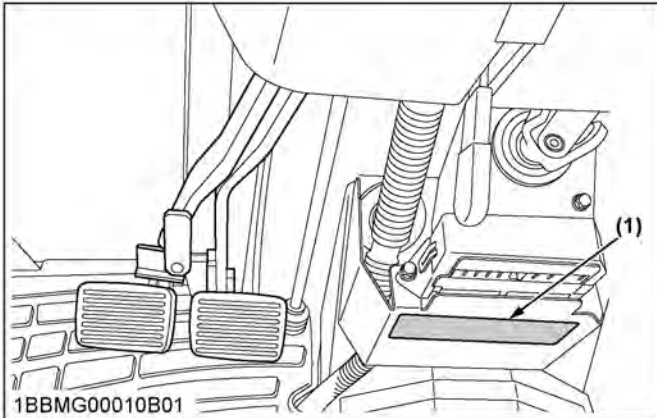
|   |   |
|---|---|
|  | <b>⚠ WARNING</b>  |
|   | <p><b>BEFORE DISMOUNTING TRACTOR:</b></p> <ol style="list-style-type: none"> <li><b>1. ALWAYS SET PARKING BRAKE.</b><br/>Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.</li> <li><b>2. PARK ON LEVEL GROUND WHENEVER POSSIBLE.</b><br/>If parking on a slope, position tractor across the slope.</li> <li><b>3. LOWER ALL IMPLEMENTS TO THE GROUND.</b></li> <li><b>4. STOP THE ENGINE.</b></li> </ol> |

1AGAMAQAP0790


California Proposition 65


|  |  |
|--|--|
| <b>⚠ WARNING ⚠</b>   |  |
| <p>Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> |  |

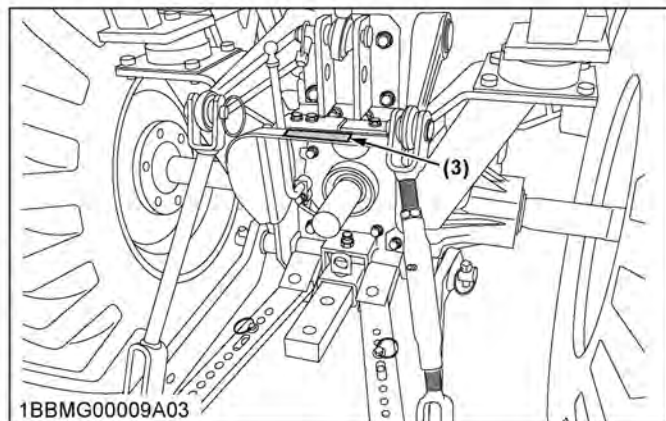
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(3) Part No. 6C200-4959-1

|   |  |
|---|--|
|  | <b>⚠ WARNING</b>   |
|   | <p><b>TO AVOID PERSONAL INJURY:</b></p> <ol style="list-style-type: none"> <li>1. Attach pulled or towed loads to the drawbar only.</li> <li>2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.</li> </ol> |

|   |   |
|---|---|
|  | <b>⚠ WARNING</b>  |
|   | <p><b>TO AVOID PERSONAL INJURY:</b></p> <ol style="list-style-type: none"> <li>1. Keep PTO shield in place at all times.</li> <li>2. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.</li> <li>3. For trailing PTO-driven implements, set drawbar at towing position. (see operator's manual)</li> </ol> |

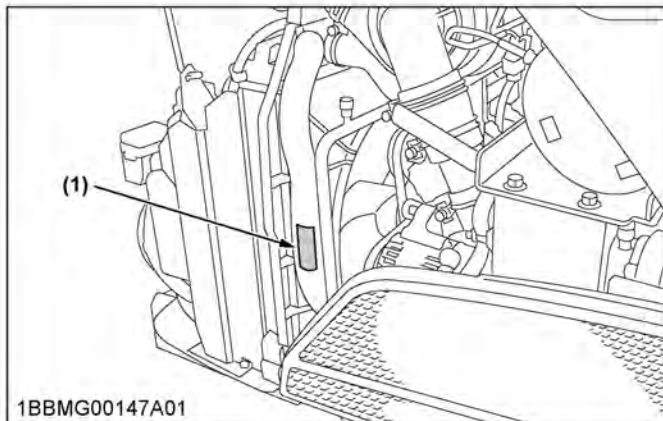


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LX3310HSDCC

(1) Part No. 6C090-4958-2

Do not get your hands  
close to engine fan and fan belt.



1BBMG00147A01

1BBMG00148A01enUS

## **CARE OF THE SAFETY LABELS**

- Keep the safety labels clean and free from obstructing material.
- Clean the safety labels with soap and water, dry with a soft cloth.
- Replace damaged or missing safety labels with new labels from your local KUBOTA Dealer.
- If a component with safety label(s) affixed is replaced with new part, make sure new label(s) is (are) attached in the same location(s) as the replaced component.
- Mount new safety labels by applying on a clean dry surface and pressing any bubbles to outside edge.

# SERVICING OF TRACTOR

Your dealer has knowledge of your new machine and has the desire to help you get the most value from it. After reading this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see your KUBOTA Dealer.

For service, contact the KUBOTA Dealership from which you purchased your machine or your local KUBOTA Dealer.

When in need of parts, be prepared to give your dealer the product identification number (PIN), and the CAB/ROPS and engine serial numbers.

Locate the PIN and serial numbers now, and record them in the space provided.

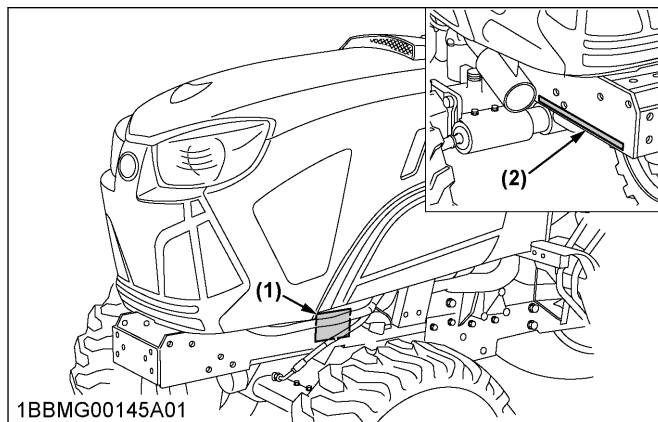
|                  |  |
|------------------|--|
| Date of purchase |  |
| Name of dealer   |  |

To be filled in by the purchaser

|          | Type | PIN / Serial No. |
|----------|------|------------------|
| Tractor  |      |                  |
| CAB/ROPS |      |                  |
| Engine   |      |                  |

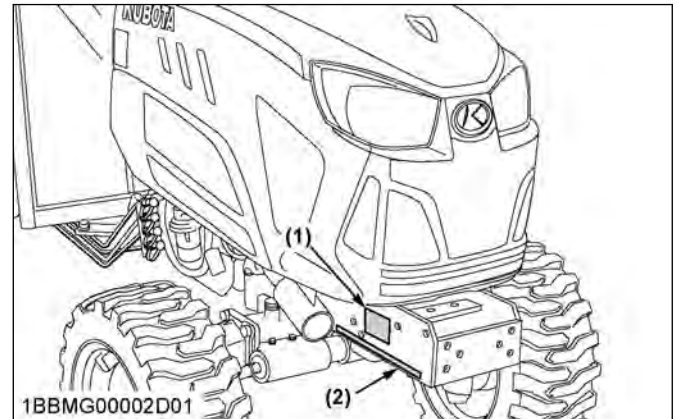
To be filled in by the purchaser

## ROPS model



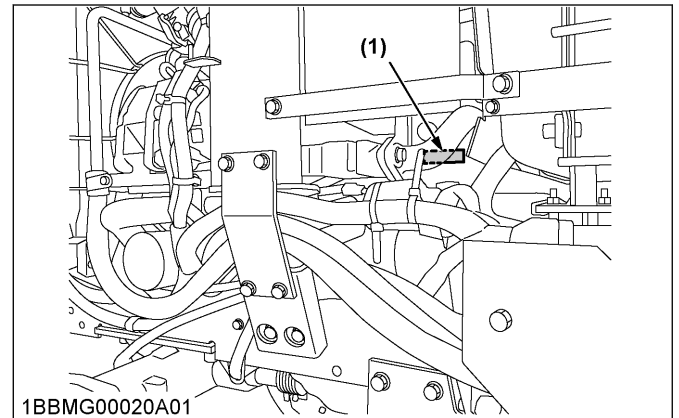
- (1) Identification plate
- (2) Product identification number

## CAB model



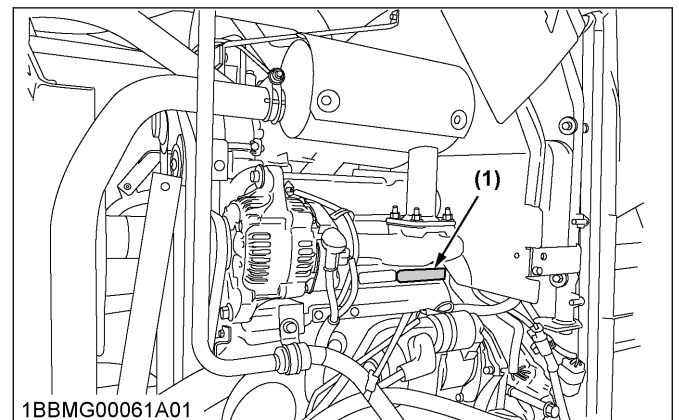
- (1) Identification plate
- (2) Product identification number

## [LX3310]

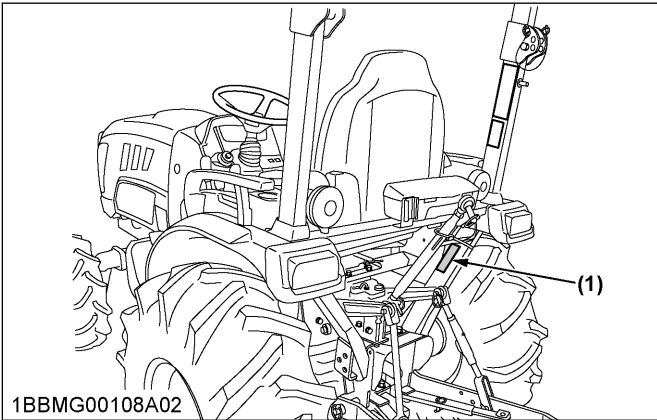


- (1) Engine serial number

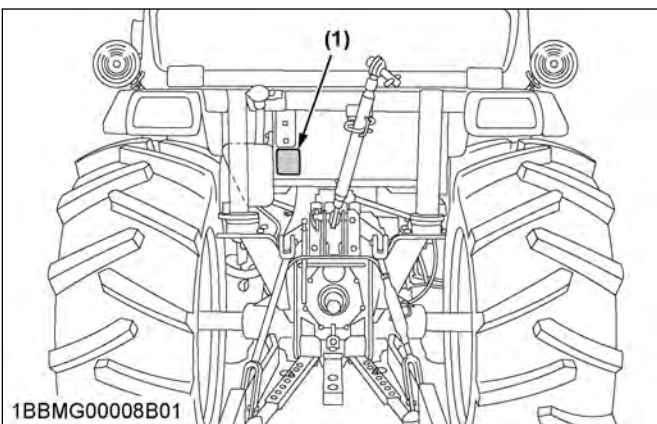
## [LX2610/LX2610SU]



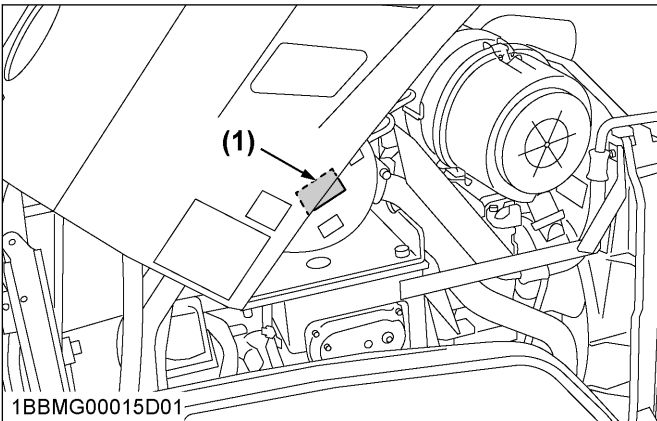
- (1) Engine serial number

**ROPS model**

(1) ROPS identification (ROPS serial number)

**CAB model**

(1) CAB identification plate (CAB serial number)

**[LX3310] only**

(1) Diesel particulate filter (DPF) serial number

**SCRAPPING THE TRACTOR AND ITS PROCEDURE**

To put the tractor out of service, correctly follow the local rules and regulations of the country or territory where you scrap it.

If you have questions, consult your local KUBOTA Dealer.

**WARRANTY**

This tractor is warranted under the **KUBOTA Limited Express Warranty**, a copy of which may be obtained from your selling dealer.

No warranty shall, however, apply if the tractor has not been handled according to the instruction given in the operator's manual, even if it is within the warranty period.

# SPECIFICATIONS

## SPECIFICATION TABLE FOR ROPS MODEL

| Model            |                                | LX2610HSD   | LX2610SUHSD                                      | LX3310HSD  |
|------------------|--------------------------------|---|--|--|
| PTO power*1      |                                | 14.5<br>(19.5)  |  | 20.1<br>(27.0)                                     |
| Engine           | Maker                          | KUBOTA  |  |  |
|                  | Model                          | D1305-E4-D36R   |  | V1505-CR-TE5-D36R1                                 |
|                  | Type                           | Indirect Injection. Vertical, water-cooled 4 cycle diesel |  |  |
|                  | Number of cylinders            | 3   |  | 4  |
|                  | Bore and stroke                | mm<br>(in.)   | $\phi 78 \times 88$<br>( $\phi 3.1 \times 3.5$ ) | $\phi 78 \times 78.4$<br>( $\phi 3.1 \times 3.1$ ) |
|                  | Total displacement             | cc<br>(cu. in.)   | 1261<br>(77.0)                                   | 1498<br>(91.5)                                     |
|                  | Engine gross power*2           | kW<br>(HP)  | 18.5<br>(24.8)                                   | 23.0<br>(30.8)                                     |
|                  | Rated revolution               | rpm   | 2500   |  |
|                  | Low idling revolution          | rpm   | 1100   |  |
|                  | Maximum torque                 | N·m<br>(ft·lb)  | 84.0<br>(62.0)                                   | 105.4<br>(77.7)                                    |
|                  | Battery                        | 12 V, RC : 80min, CCA : 430 A                             |  |  |
| Capacities       | Fuel tank                      | L<br>(U.S.gals.)  | 27<br>(7.1)                                      |  |
|                  | Engine crankcase (with filter) | L<br>(U.S.qts.)   | 4.0<br>(4.2)                                     | 4.7<br>(5.0)                                       |
|                  | Engine coolant                 | L<br>(U.S.qts.)   | 4.3<br>(4.5)                                     |  |
|                  | Transmission case              | L<br>(U.S.gals.)  | 15<br>(4.0)                                      |  |
| Dimensions       | Overall length (without 3P)    |   | mm<br>(in.)                                      | 2585<br>(101.8)                                    |
|                  | Overall width (min. tread)     |   | mm<br>(in.)                                      | 1365<br>(53.7)                                     |
|                  | Overall height                 |   | mm<br>(in.)                                      | 2245<br>(88.4)                                     |
|                  | Wheel base                     |   | mm<br>(in.)                                      | 1666<br>(65.6)                                     |
|                  | Minimum ground clearance       |   | mm<br>(in.)                                      | 370<br>(14.6)                                      |
|                  | Tread                          | Front   | mm<br>(in.)                                      | 935<br>(36.8)                                      |
| Rear             |                                | mm<br>(in.)   | 1050<br>(41.3)                                   |  |
| Weight           |                                | kg<br>(lbs.)  | 830<br>(1830)                                    | 940<br>(2072)                                      |
| Clutch           |                                | Not applicable  |  |  |
| Traveling system | Tires                          | Front   | 7-12   |  |
|                  |                                | Rear  | 12.4-16  |  |

(Continued)

## SPECIFICATIONS

| Model            |                                     |                          | LX2610HSD  | LX2610SUHSD   | LX3310HSD                                   |
|------------------|-------------------------------------|--------------------------|--|---------------|---|
| Traveling system | Steering                            |                          | Hydrostatic type power steering  |               |   |
|                  | Transmission                        |                          | Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse) |               |   |
|                  | Brake                               |                          | Wet disk type  |               |   |
|                  | Minimum turning radius (with brake) | m<br>(feet)              | 2.1<br>(6.9)   |               |   |
| Hydraulic unit   | Hydraulic control system            |                          | Position control   |               |   |
|                  | Pump capacity                       | L / min<br>(gals / min)  | 33.1<br>(8.7)  |               |   |
|                  | 3-point hitch                       |                          | SAE Category 1   |               |   |
|                  | Max. lift force                     | At lift points           | kg<br>(lbs.)   | 970<br>(2139) |   |
|                  |                                     | 24 in. behind lift point | kg<br>(lbs.)   | 760<br>(1676) |   |
| PTO              | Rear-PTO                            |                          | SAE 1-3/8, 6 splines   |               |   |
|                  | PTO / Engine speed                  | rpm                      | 1 speed<br>540 / 2398  |               |   |
|                  | Mid-PTO                             |                          | USA No. 5 (KUBOTA 10-tooth) involute spline                              | —             | USA No. 5 (KUBOTA 10-tooth) involute spline |
|                  | PTO / Engine speed                  | rpm                      | 1 speed<br>2500 / 2500   | —             | 1 speed<br>2500 / 2500                      |

The company reserves the right to change the specifications without notice.

\*1 manufacturer's estimate

\*2 SAE J1995. The engine output value indicated on the EPA exhaust gas label is the ISO 8178 net value without a cooling fan.

- LX2610HSD: 18.2 kW
- LX2610SUHSD: 18.2 kW
- LX3310HSD: 22.7 kW



## SPECIFICATION TABLE FOR CAB MODEL

| Model                          |                             |                  | LX2610HSDC   | LX2610HSDCC                                      | LX3310HSDC         | LX3310HSDCC  |                                   |
|--------------------------------|-----------------------------|------------------|--|--|--------------------|--|-----------------------------------|
| PTO power*1                    |                             | kW<br>(HP)       | 14.5<br>(19.5)   |  | 20.1<br>(27.0)     |  |                                   |
| Engine                         | Maker                       |                  | KUBOTA   |  |                    |  |                                   |
|                                | Model                       |                  | D1305-E4-D26Q  |  | V1505-CR-TE5-D36Q1 |  |                                   |
|                                | Type                        |                  | Indirect Injection. Vertical, water-cooled 4 cycle diesel                |  |                    |  |                                   |
|                                | Number of cylinders         |                  | 3  |  | 4                  |  |                                   |
|                                | Bore and stroke             |                  | mm<br>(in.)  | $\phi 78 \times 88$<br>( $\phi 3.1 \times 3.5$ ) |                    | $\phi 78 \times 78.4$<br>( $\phi 3.1 \times 3.1$ ) |                                   |
|                                | Total displacement          |                  | cc<br>(cu. in.)  | 1261<br>(77.0)                                   |                    | 1498<br>(91.5)                                     |                                   |
|                                | Engine gross power*2        |                  | kW<br>(HP)   | 18.5<br>(24.8)                                   |                    | 23.0<br>(30.8)                                     |                                   |
|                                | Rated revolution            |                  | rpm  | 2500   |                    |  |                                   |
|                                | Low idling revolution       |                  | rpm  | 1100   |                    | 1300   |                                   |
|                                | Maximum torque              |                  | N · m<br>(ft · lb)   | 84.0<br>(62.0)                                   |                    | 105.4<br>(77.7)                                    |                                   |
|                                | Battery                     |                  |  | 12 V, RC : 80 min, CCA : 430 A                   |                    |  | 12 V, RC : 90 min,<br>CCA : 480 A |
|                                | Capacities                  | Fuel tank        |  | L<br>(U.S.gals.)                                 | 32<br>(8.4)        |  |                                   |
| Engine crankcase (with filter) |                             | L<br>(U.S.gals.) | 4.0<br>(4.2)   |  | 4.7<br>(5.0)       |  |                                   |
| Engine coolant                 |                             | L<br>(U.S.gals.) | 4.3<br>(4.5)   |  |                    |  |                                   |
| Transmission case              |                             | L<br>(U.S.gals.) | 15<br>(4.0)  |  |                    |  |                                   |
| Dimensions                     | Overall length (without 3P) |                  | mm<br>(in.)  | 2640<br>(103.9)                                  |                    |  |                                   |
|                                | Overall width (min. tread)  |                  | mm<br>(in.)  | 1365<br>(53.7)                                   |                    |  |                                   |
|                                | Overall height              |                  | mm<br>(in.)  | 2150<br>(84.6)                                   |                    |  |                                   |
|                                | Wheel base                  |                  | mm<br>(in.)  | 1666<br>(65.6)                                   |                    |  |                                   |
|                                | Minimum ground clearance    |                  | mm<br>(in.)  | 370<br>(14.6)                                    |                    |  |                                   |
|                                | Tread                       | Front            | mm<br>(in.)  | 935<br>(36.8)                                    |                    |  |                                   |
| Rear                           |                             | mm<br>(in.)      | 1050<br>(41.3)   |  |                    |  |                                   |
| Weight                         |                             | kg<br>(lbs.)     | 1040<br>(2293)   |  | 1160<br>(2557)     |  |                                   |
| Clutch                         |                             |                  | Not applicable   |  |                    |  |                                   |
| Traveling system               | Tires                       | Front            | 7-12   |  |                    |  |                                   |
|                                |                             | Rear             | 12.4-16  |  |                    |  |                                   |
|                                | Steering                    |                  | Hydrostatic type power steering  |  |                    |  |                                   |
|                                | Transmission                |                  | Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse) |  |                    |  |                                   |
|                                | Brake                       |                  | Wet disk type  |  |                    |  |                                   |

(Continued)

## SPECIFICATIONS

| Model            |                                     |                          | LX2610HSDC           | LX2610HSDCC                                 | LX3310HSDC | LX3310HSDCC |
|------------------|-------------------------------------|--------------------------|----------------------|---|------------|-------------|
| Traveling system | Minimum turning radius (with brake) |                          | m (feet)             | 2.1 (6.9)                                   |            |             |
|                  | Hydraulic control system            |                          |                      | Position control                            |            |             |
| Hydraulic unit   | Pump capacity                       |                          | L / min (gals / min) | 33.1 (8.7)                                  |            |             |
|                  | 3-point hitch                       |                          |                      | SAE Category 1                              |            |             |
|                  | Max. lift force                     | At lift points           | kg (lbs.)            | 970 (2139)                                  |            |             |
|                  |                                     | 24 in. behind lift point | kg (lbs.)            | 760 (1676)                                  |            |             |
| PTO              | Rear-PTO                            |                          |                      | SAE 1-3/8, 6 splines                        |            |             |
|                  | PTO / Engine speed                  |                          | rpm                  | 1 speed<br>540 / 2398                       |            |             |
|                  | Mid-PTO                             |                          |                      | USA No. 5 (KUBOTA 10-tooth) involute spline |            |             |
|                  | PTO / Engine speed                  |                          | rpm                  | 1 speed<br>2500 / 2500                      |            |             |

The company reserves the right to change the specifications without notice.

\*1 manufacturer's estimate

- \*2 SAE J1995. The engine output value indicated on the EPA exhaust gas label is the ISO 8178 net value without a cooling fan.
- LX2610HSDC: 18.2 kW
  - LX2610HSDCC: 18.2 kW
  - LX3310HSDC: 22.7 kW
  - LX3310HSDCC: 22.7 kW

**TRAVELING SPEEDS**

| Model            |                        | LX2610HSD/LX2610SUHSD/LX2610HSDC/LX2610HSDCC |           |                |           |
|------------------|------------------------|--|-----------|----------------|-----------|
| Tire size (Rear) |                        | 12.4 - 16 Farm                               |           | 13.6 - 16 Turf |           |
|                  | Range gear shift lever | km / h                                       | mph       | km / h         | mph       |
| Forward          | Low                    | 0 to 5.7                                     | 0 to 3.6  | 0 to 6.0       | 0 to 3.7  |
|                  | Middle                 | 0 to 8.5                                     | 0 to 5.3  | 0 to 8.9       | 0 to 5.5  |
|                  | High                   | 0 to 18.0                                    | 0 to 11.2 | 0 to 18.9      | 0 to 11.7 |
| Reverse          | Low                    | 0 to 4.3                                     | 0 to 2.7  | 0 to 4.5       | 0 to 2.8  |
|                  | Middle                 | 0 to 6.4                                     | 0 to 3.9  | 0 to 6.7       | 0 to 4.1  |
|                  | High                   | 0 to 13.5                                    | 0 to 8.4  | 0 to 15.0      | 0 to 8.8  |

| Model            |                        | LX2610HSD/LX2610SUHSD/LX2610HSDC/LX2610HSDCC |           |             |           |
|------------------|------------------------|--|-----------|-------------|-----------|
| Tire size (Rear) |                        | 12.4 - 16 Industry                           |           | 14-17.5 R14 |           |
|                  | Range gear shift lever | km / h                                       | mph       | km / h      | mph       |
| Forward          | Low                    | 0 to 5.6                                     | 0 to 3.5  | 0 to 5.5    | 0 to 3.5  |
|                  | Middle                 | 0 to 8.3                                     | 0 to 5.2  | 0 to 8.2    | 0 to 5.1  |
|                  | High                   | 0 to 17.5                                    | 0 to 10.9 | 0 to 17.3   | 0 to 10.8 |
| Reverse          | Low                    | 0 to 4.2                                     | 0 to 2.6  | 0 to 4.2    | 0 to 2.6  |
|                  | Middle                 | 0 to 6.2                                     | 0 to 3.8  | 0 to 6.1    | 0 to 3.8  |
|                  | High                   | 0 to 13.2                                    | 0 to 8.2  | 0 to 13.1   | 0 to 8.1  |

| Model            |                        | LX3310HSD/LX3310HSDC/LX3310HSDCC |           |                |           |
|------------------|------------------------|----------------------------------|-----------|----------------|-----------|
| Tire size (Rear) |                        | 12.4 - 16 Farm                   |           | 13.6 - 16 Turf |           |
|                  | Range gear shift lever | km / h                           | mph       | km / h         | mph       |
| Forward          | Low                    | 0 to 5.7                         | 0 to 3.6  | 0 to 6.0       | 0 to 3.7  |
|                  | Middle                 | 0 to 9.3                         | 0 to 5.8  | 0 to 9.8       | 0 to 6.1  |
|                  | High                   | 0 to 21.9                        | 0 to 13.6 | 0 to 23.0      | 0 to 14.3 |
| Reverse          | Low                    | 0 to 4.3                         | 0 to 2.7  | 0 to 4.5       | 0 to 2.8  |
|                  | Middle                 | 0 to 7.0                         | 0 to 4.3  | 0 to 7.3       | 0 to 4.5  |
|                  | High                   | 0 to 16.5                        | 0 to 10.3 | 0 to 17.3      | 0 to 10.7 |

| Model            |                        | LX3310HSD/LX3310HSDC/LX3310HSDCC |           |             |           |
|------------------|------------------------|----------------------------------|-----------|-------------|-----------|
| Tire size (Rear) |                        | 12.4 - 16 Industry               |           | 14-17.5 R14 |           |
|                  | Range gear shift lever | km / h                           | mph       | km / h      | mph       |
| Forward          | Low                    | 0 to 5.6                         | 0 to 3.5  | 0 to 5.5    | 0 to 3.5  |
|                  | Middle                 | 0 to 9.1                         | 0 to 5.7  | 0 to 9.0    | 0 to 5.6  |
|                  | High                   | 0 to 21.4                        | 0 to 13.3 | 0 to 21.2   | 0 to 13.2 |
| Reverse          | Low                    | 0 to 4.2                         | 0 to 2.6  | 0 to 4.2    | 0 to 2.6  |
|                  | Middle                 | 0 to 6.8                         | 0 to 4.2  | 0 to 6.7    | 0 to 4.2  |
|                  | High                   | 0 to 16.1                        | 0 to 10.0 | 0 to 16.0   | 0 to 9.9  |

## SPECIFICATIONS

| Model            |                        | LX2610HSD/LX2610SUHSD |           |                 |           |
|------------------|------------------------|-----------------------|-----------|-----------------|-----------|
| Tire size (Rear) |                        | 15.0 - 19.5 Industry  |           | 15.0 - 19.5 R14 |           |
|                  | Range gear shift lever | km / h                | mph       | km / h          | mph       |
| Forward          | Low                    | 0 to 6.1              | 0 to 3.8  | 0 to 6.1        | 0 to 3.8  |
|                  | Middle                 | 0 to 9.2              | 0 to 5.8  | 0 to 9.2        | 0 to 5.8  |
|                  | High                   | 0 to 19.5             | 0 to 12.1 | 0 to 19.5       | 0 to 12.1 |
| Reverse          | Low                    | 0 to 4.6              | 0 to 2.9  | 0 to 4.6        | 0 to 2.9  |
|                  | Middle                 | 0 to 6.9              | 0 to 4.3  | 0 to 6.9        | 0 to 4.3  |
|                  | High                   | 0 to 14.6             | 0 to 9.1  | 0 to 14.6       | 0 to 9.1  |

| Model            |                        | LX3310HSD            |           |                 |           |
|------------------|------------------------|----------------------|-----------|-----------------|-----------|
| Tire size (Rear) |                        | 15.0 - 19.5 Industry |           | 15.0 - 19.5 R14 |           |
|                  | Range gear shift lever | km / h               | mph       | km / h          | mph       |
| Forward          | Low                    | 0 to 6.1             | 0 to 3.8  | 0 to 6.1        | 0 to 3.8  |
|                  | Middle                 | 0 to 10.1            | 0 to 6.3  | 0 to 10.1       | 0 to 6.3  |
|                  | High                   | 0 to 23.7            | 0 to 14.7 | 0 to 23.7       | 0 to 14.7 |
| Reverse          | Low                    | 0 to 4.6             | 0 to 2.9  | 0 to 4.6        | 0 to 2.9  |
|                  | Middle                 | 0 to 7.6             | 0 to 4.7  | 0 to 7.6        | 0 to 4.7  |
|                  | High                   | 0 to 17.8            | 0 to 11.1 | 0 to 17.8       | 0 to 11.1 |

At rated engine rpm

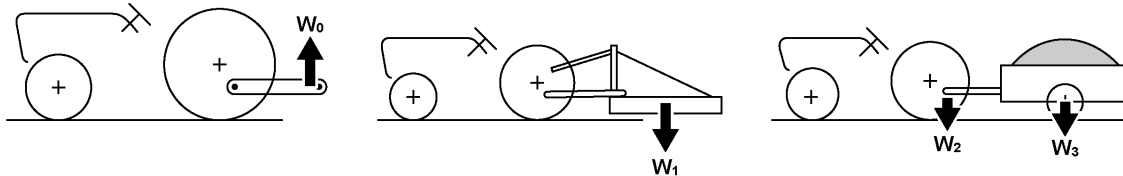
The company reserves the right to change the specification without notice.

# IMPLEMENT LIMITATIONS

The 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 in the following table, or which are otherwise unfit for use with the 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: W0 |
|------------------------------------|--------------------|--|
| Front                              | Rear               |  |
| 935 mm (36.8 in.)                  | 1050 mm (41.3 in.) | 360 kg (800 lbs.)                        |

| Actual figures  |                       |  |
|---|-----------------------|--|
| Implement weight and/or size: W1  | Max. drawbar load: W2 | Trailer loading weight max. capacity: W3 |
| As in the following list<br>(See IMPLEMENT SPECIFICATION TABLE on page 36.) | 500 kg (1100 lbs.)    | 1500 kg (3300 lbs.)                      |



1RVNX00001A02

W0 Lower link end max. loading weight - the max. allowable load which can be put on the lower link end

W1 Implement weight - the implement's weight which can be put on the lower link

W2 Max. drawbar load

W3 Trailer loading weight - the max. loading weight for trailer (with trailer's weight)

## 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:
  - toppling trees, primarily in case a rear-mounted tree grab-crane is mounted at the rear of the tractor.
  - penetrating objects in the operator's enclosure, primarily in case a winch is mounted at the rear of the tractor.

Optional equipment such as operator protective structure (OPS), falling object protective structure (FOPS), and so on, 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.

## IMPLEMENT SPECIFICATION TABLE

| Implement     |                            | Remarks            |                    | LX2610/LX3310 |
|---------------|----------------------------|--------------------|--------------------|---------------|
| Mower         | Mid-mount                  | Max. cutting width | mm (in.)           | 1830 (72)     |
|               |                            | Max. weight        | kg (lbs.)          | 205 (451)     |
|               | Rotary-cutter (1 Blade)    | Max. cutting width | mm (in.)           | 1220 (48)     |
|               |                            | Max. weight        | kg (lbs.)          | 227 (500)     |
|               | Rear-mount (2 or 3 Blades) | Max. cutting width | mm (in.)           | 1830 (72)     |
| Max. weight   |                            | kg (lbs.)          | 227 (500)          |               |
| Flail-mower   | Max. cutting width         | mm (in.)           | 1220 (48)          |               |
| Sickle bar    | Max. cutting width         | mm (in.)           | 1524 (60)          |               |
| Rotary tiller | Max. tilling width         | mm (in.)           | 1270 (50)          |               |
|               | Max. weight                | kg (lbs.)          | 250 (550)          |               |
|               | Slip clutch                |                    | Necessary          |               |
| Bottom plow   | Max. size                  | mm (in.)           | 305 (12) × 2       |               |
| Disc plow     | Max. size                  | mm (in.)           | 559 (22) × 2       |               |
| Cultivator    | Max. size                  | mm (in.)           | 1524 (60)<br>1 Row |               |
| Disc harrow   | Max. harrowing width       | mm (in.)           | 1676 (66)          |               |
|               | Max. weight                | kg (lbs.)          | 250 (550)          |               |
| Sprayer       | Max. tank capacity         | L (U.S.gals.)      | 246 (65)           |               |
| Front blade   | Max. cutting width         | mm (in.)           | 1676 (66)          |               |
|               | Sub frame                  |                    | Necessary          |               |
| Rear blade    | Max. cutting width         | mm (in.)           | 1676 (66)          |               |
|               | Max. weight                | kg (lbs.)          | 250 (550)          |               |
| Front loader  | Max. lifting capacity      | kg (lbs.)          | 420 (926)          |               |
|               | Max. width                 | mm (in.)           | 1524 (60)          |               |
| Box blade     | Max. cutting width         | mm (in.)           | 1372 (54)          |               |
|               | Max. weight                | kg (lbs.)          | 227 (500)          |               |
| Back hoe      | Max. digging depth         | mm (in.)           | 2295 (90)          |               |
|               | Max. weight                | kg (lbs.)          | 400 (880)          |               |
|               | Sub frame                  |                    | Necessary          |               |
| Snow blower   | Max. working width         | mm (in.)           | 1542 (60)          |               |
|               | Max. weight                | kg (lbs.)          | 227 (500)          |               |
| Trailer       | Max. load capacity         | kg (lbs.)          | 1500 (3300)        |               |
|               | Max. drawbar load          | kg (lbs.)          | 500 (1100)         |               |

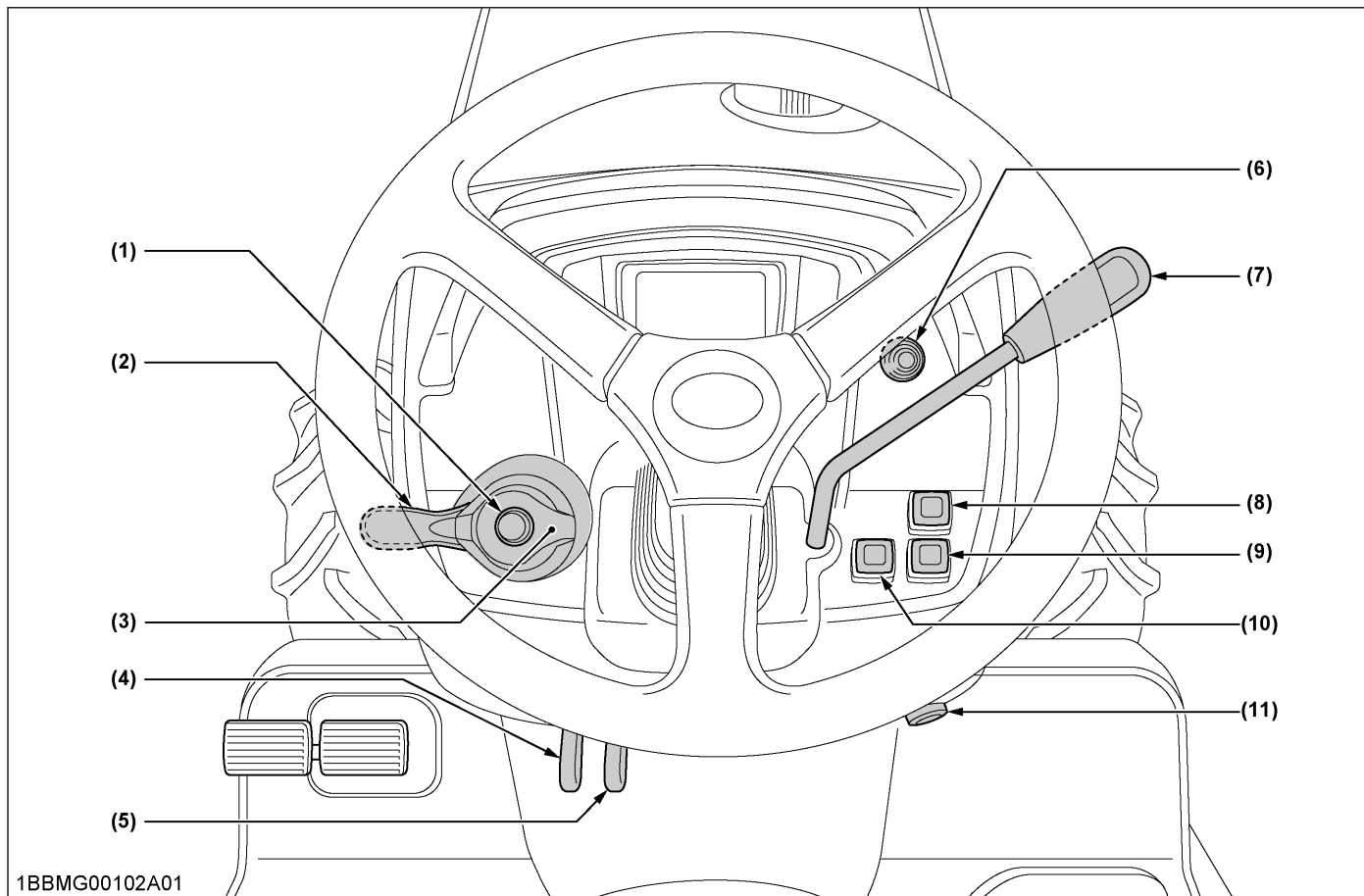
## NOTE :

- Implement size may vary depending on soil operating conditions.

# INSTRUMENT PANEL AND CONTROLS

## SWITCHES AND HAND CONTROLS

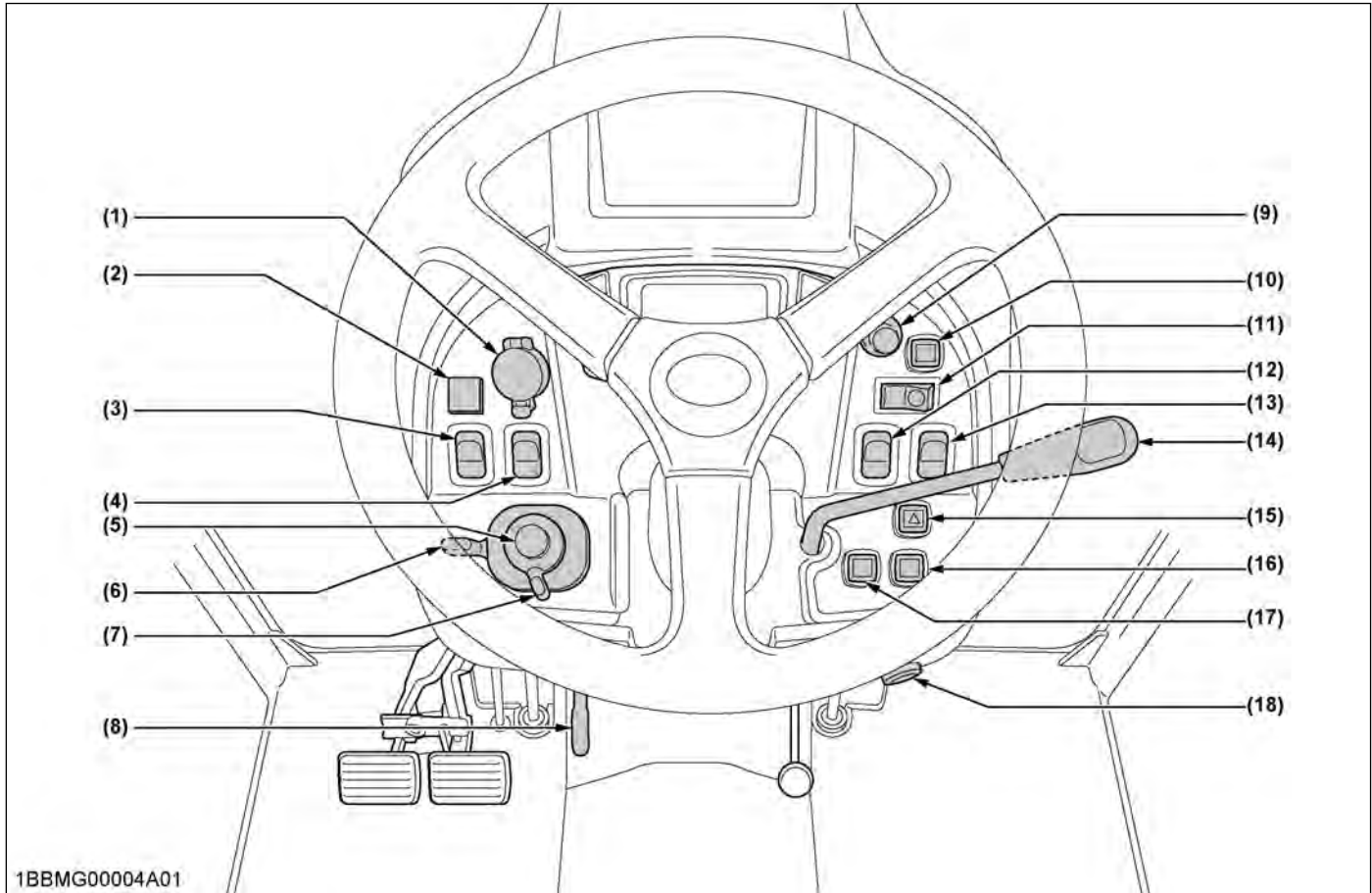
ROPS model



1BBMG00102A01

|  |    |   |    |
|--|----|---|----|
| (1) Hazard light switch.....               | 61 | (6) Display switch (Engine rpm, PTO speed) .....    | 69 |
| (2) Turn signal light switch.....          | 61 | (7) Hand throttle lever .....                       | 65 |
| (3) Headlight switch.....                  | 61 | (8) Stationary PTO.....                             | 77 |
| (4) Parking brake lever.....               | 63 | (9) DPF inhibit switch [LX3310 only] .....          | 47 |
| (5) Speed set lever [except LX2610SU]..... | 65 | (10) Parked regeneration switch [LX3310 only] ..... | 49 |
|  |    | (11) Key switch                                     |    |

CAB model

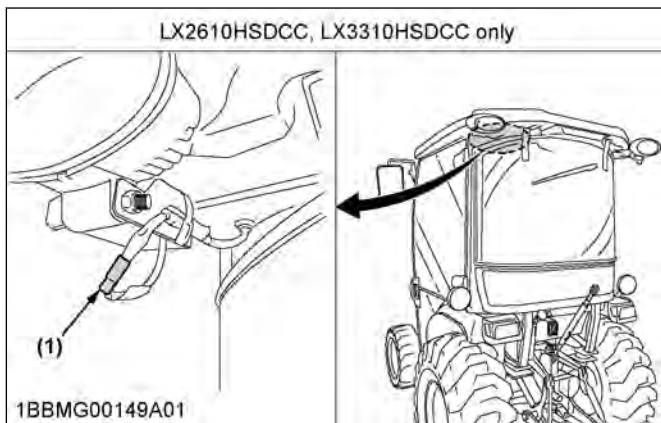


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|  |    |   |     |
|--|----|---|-----|
| (1) Electrical outlet .....                    | 72 | (9) Display switch (Engine rpm, PTO speed) .....    | 69  |
| (2) Beacon switch (if equipped) .....          |    | (10) Stationary PTO .....                           | 77  |
| (3) Front work light switch .....              | 97 | (11) Defogger switch .....                          | 101 |
| (4) Rear work light switch (if equipped) ..... | 97 | (12) Front wiper and washer switch .....            | 97  |
| (5) Horn button .....                          | 62 | (13) Rear wiper and washer switch .....             | 97  |
| (6) Turn signal light switch .....             | 61 | (14) Hand throttle lever .....                      | 65  |
| (7) Headlight switch .....                     | 61 | (15) Hazard light switch .....                      | 61  |
| (8) Parking brake lever .....                  | 63 | (16) DPF inhibit switch [LX3310 only] .....         | 47  |
|  |    | (17) Parked regeneration switch [LX3310 only] ..... | 49  |
|  |    | (18) Key switch .....                               |     |

NOTE :

- See the following figure for beacon connector.

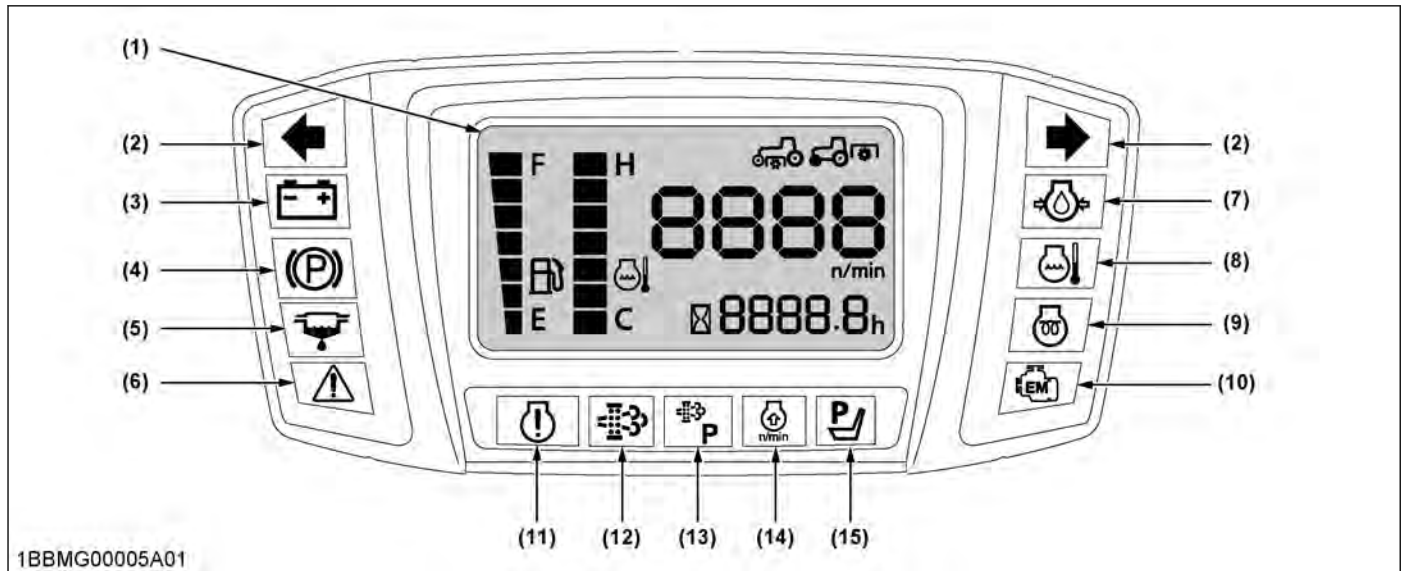


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(1) Beacon connector



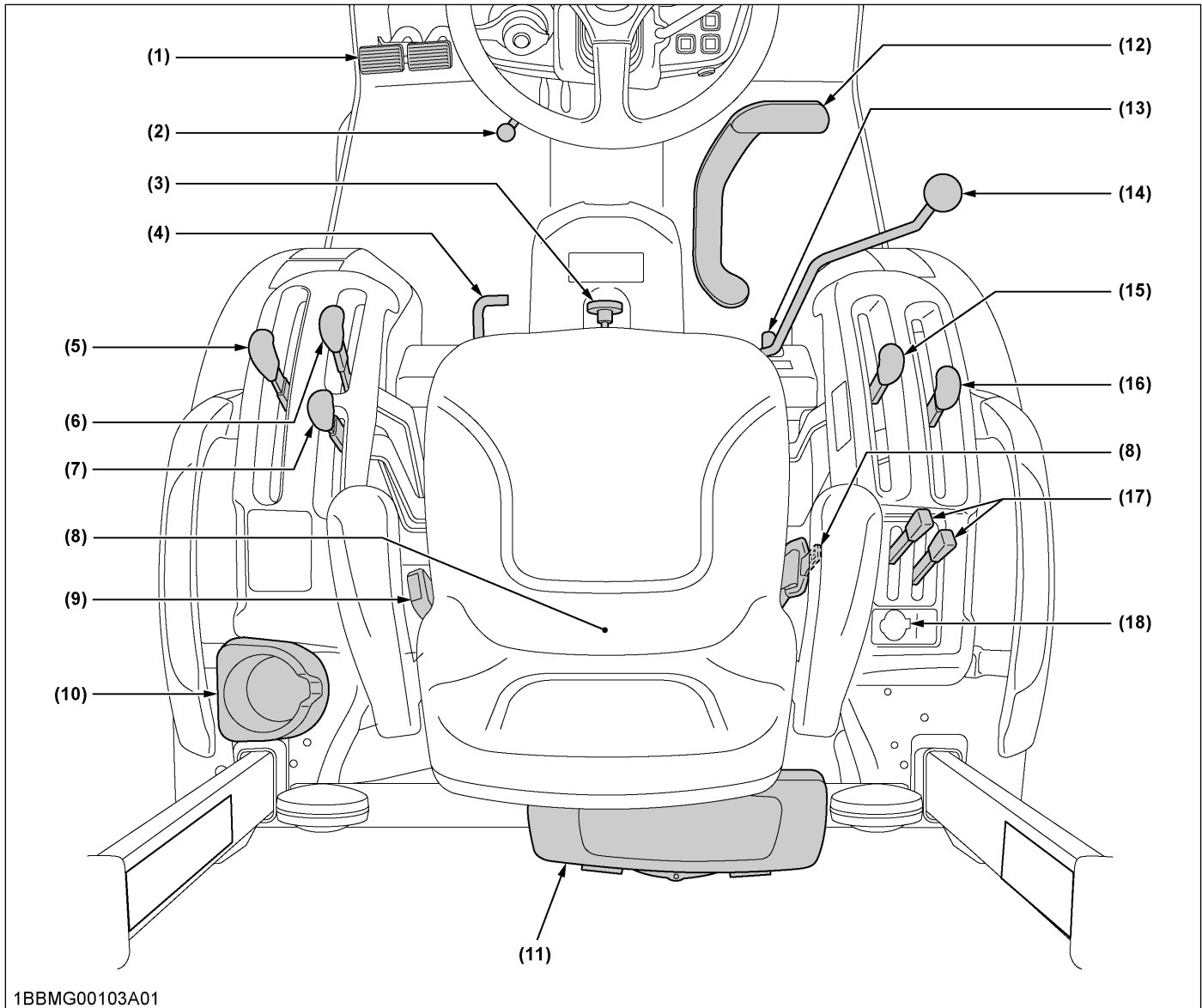
# INSTRUMENT PANEL



|   |  |
|---|--|
| (1) Liquid crystal display                          | (9) Glow plug indicator [LX2610]                         |
| (2) Turn signal indicator..... 61                   | Heater indicator [LX3310]                                |
| Hazard light indicator..... 61                      | (10) Emission indicator [LX3310 only]..... 67            |
| (3) Electrical charge warning indicator..... 67     | (11) Engine warning indicator [LX3310 only]..... 67      |
| (4) Parking brake warning indicator..... 50         | (12) Regeneration indicator [LX3310 only]..... 45        |
| (5) Water separator indicator [LX3310 only]..... 67 | (13) Parked regeneration indicator [LX3310 only]..... 47 |
| (6) Master system warning indicator..... 67         | (14) Engine RPM increase indicator [LX3310 only]..... 45 |
| (7) Engine oil pressure warning indicator..... 67   | (15) Operator presence control(OPC) indicator            |
| (8) Engine overheat warning indicator..... 67       |  |

# FOOT AND HAND CONTROLS FOR ROPS MODEL

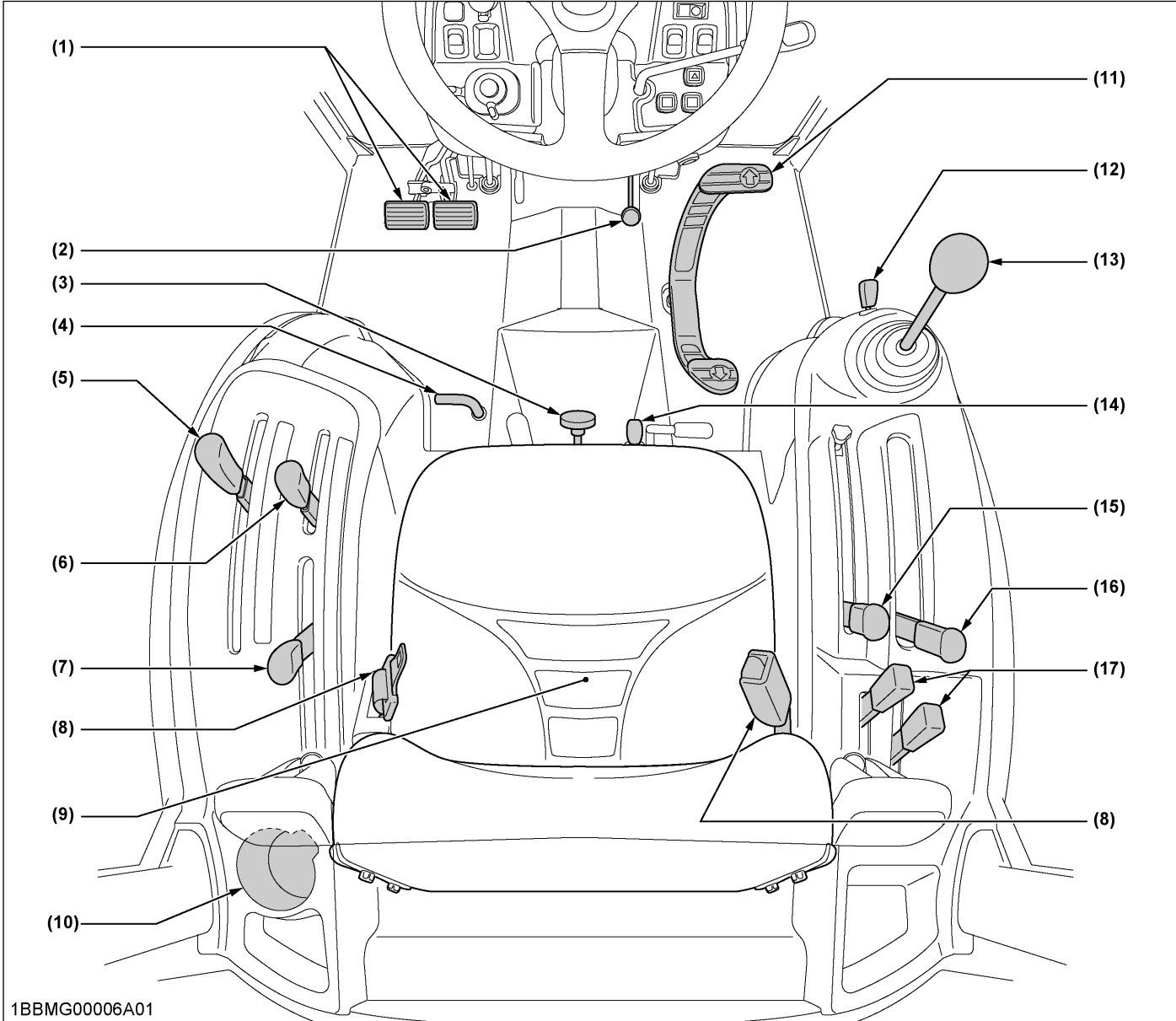
ROPS model



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|   |    |  |    |
|---|----|--|----|
| (1) Brake pedal.....                        | 62 | (12) Speed control pedal.....                      | 65 |
| (2) Steering wheel tilt pedal.....          | 60 | (13) Loader lock lever.....                        | 86 |
| (3) 3-point hitch lowering speed knob.....  | 83 | (14) Loader control lever.....                     | 84 |
| (4) Differential lock pedal.....            | 70 | (15) Front wheel drive lever.....                  | 64 |
| (5) Range gear shift lever.....             | 63 | (16) Position control lever.....                   | 83 |
| (6) PTO clutch lever.....                   | 75 | (17) Remote control valve lever (if equipped)..... | 87 |
| (7) PTO select lever [except LX2610SU]..... | 74 | (18) Electrical outlet.....                        | 72 |
| (8) Operator's seat.....                    | 59 |  |    |
| (9) Seat belt.....                          | 60 |  |    |
| (10) Cup holder.....                        |    |  |    |
| (11) Tool-box.....                          |    |  |    |

CAB model



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|  |    |  |    |
|--|----|--|----|
| (1) Brake pedal.....                       | 62 | (11) Speed control pedal.....                      | 65 |
| (2) Steering wheel tilt pedal.....         | 60 | (12) Loader lock lever.....                        | 86 |
| (3) 3-point hitch lowering speed knob..... | 83 | (13) Loader control lever.....                     | 84 |
| (4) Differential lock pedal.....           | 70 | (14) Front wheel drive lever.....                  | 64 |
| (5) Range gear shift lever.....            | 63 | (15) Position control lever.....                   | 83 |
| (6) PTO clutch lever.....                  | 75 | (16) Cruise control lever.....                     | 66 |
| (7) PTO select lever.....                  | 74 | (17) Remote control valve lever (if equipped)..... | 87 |
| (8) Seat belt.....                         | 60 |  |    |
| (9) Operator's seat.....                   | 59 |  |    |
| (10) Cup holder.....                       |    |  |    |

# PRE-OPERATION CHECK

## DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the tractor. Check it before starting.



### WARNING

To avoid personal injury or death:

- Be sure to check and service the tractor on a level surface with the engine shut off, the parking brake “ON” and the implement lowered to the ground.

### Check item

- Walk around inspection
- Check engine oil level
- Check transmission oil level
- Check coolant level
- Check washer liquid level
- Check water separator [LX3310 only]
- Clean grill and radiator screen
- Clean air conditioner condenser screen [CAB model only]
- Check DPF muffler [LX3310 only]
- Check air cleaner evacuator valve (when used in a dusty place)
- Check brake pedal
- Check indicators, gauges and meter
- Check lights
- Check wire harness
- Check seat belt
- Check ROPS and CAB
- Check movable parts
- Refuel  
(See Checking and refueling on page 111.)
- Care of the safety labels  
(See SAFETY LABELS on page 19.)

# OPERATING THE ENGINE

## WARNING

To avoid personal injury or death:

- Read and understand the safe operation section.  
(See SAFE OPERATION on page 11.)
- Read and understand the safety 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 the engine while standing on the ground. Start the engine only from operator's seat.
- Make it a rule to set all shift levers to the "NEUTRAL" positions and to place the PTO clutch control 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 [LX3310 ONLY]

## WARNING

To avoid personal injury or death:

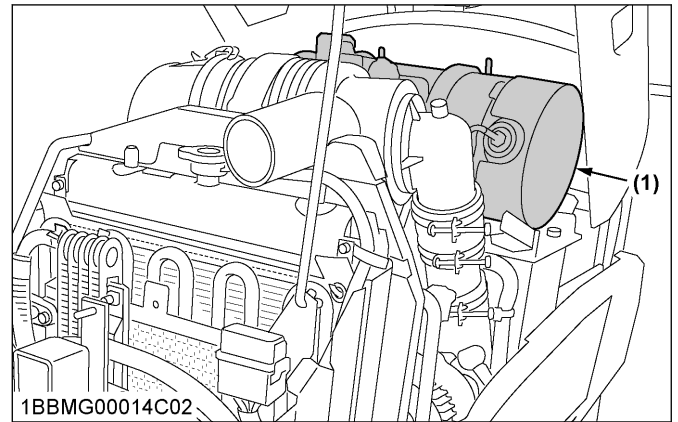
- During diesel particulate filter (DPF) regenerating operations, exhaust gases and exhaust filter components reach temperatures hot enough to burn people or ignite or melt common materials.
- Keep tractor away from people, animals or structures which may be susceptible to harm or damage from hot exhaust gases.
- During regeneration, white exhaust gases may be visible. Do not allow regeneration in an unventilated 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 diesel particulate filter (DPF) muffler which serves to reduce hydrocarbons, carbon monoxide and other toxic gases,

all of which are contained in diesel engine emissions, to harmless carbon dioxide and water. The DPF also traps particulate matter (PM).

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



(1) Diesel particulate filter (DPF)

### 1. Handling points

When a specific amount of particulate matter (PM) 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 burned, and begins to accumulate. Therefore, do not 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 continuing operation while ignoring the warning signs may cause DPF and engine damage.**

**2. DPF regeneration process**

DPF regeneration process can be performed by choosing “*Auto regeneration*” or “*Regeneration inhibit*” mode according to your job conditions.

For jobs not affected by hot gases emitted during regeneration, “*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, the DPF will be automatically regenerated whether the tractor is in motion or parked.

(See Tips on diesel particulate filter (DPF) regeneration on page 50.)

In this way, work efficiency is improved. For more details, read the “*Auto regeneration*” section of this manual.

(See Operating procedure for auto regeneration mode on page 45.)

**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 burned, unless the operator performs the regeneration work manually.

The “*Regeneration inhibit*” mode is effective for work in poorly ventilated workspaces.

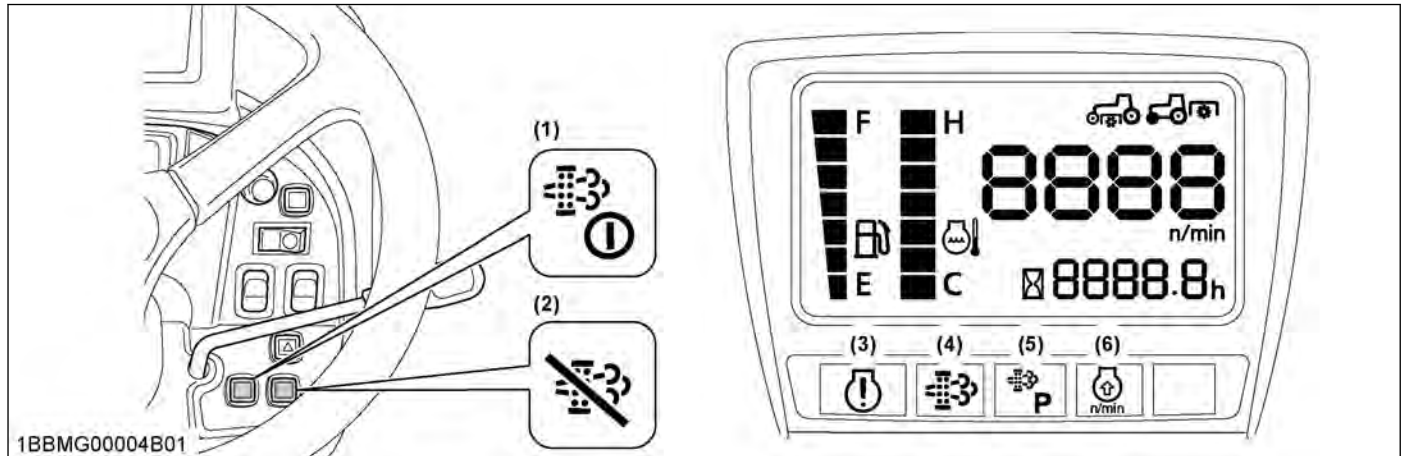
For more details, read the regeneration prohibition section of this manual.

(See Operating procedure for regeneration inhibit mode on page 47.)

**NOTE :**

- **If the engine is stopped once, the “*Auto regeneration*” mode will be activated.**

### 3. Operating procedure for auto regeneration mode



(1) Parked regeneration switch

(2) DPF inhibit switch

(3) Engine warning indicator

(4) Regeneration indicator

(5) Parked regeneration indicator

(6) Engine rpm increase 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 Tips on diesel particulate filter (DPF) regeneration on page 50.)










### 3.1 PM warning level and required procedures

During auto regeneration mode when the PM level has built up in the DPF, the regeneration cycle will begin automatically.

If the regeneration cycle is interrupted or the regeneration conditions are not satisfied, the buzzer starts sounding and the indicator display changes in response to the PM level in order to prompt the operator to perform the required procedure listed in the following table.

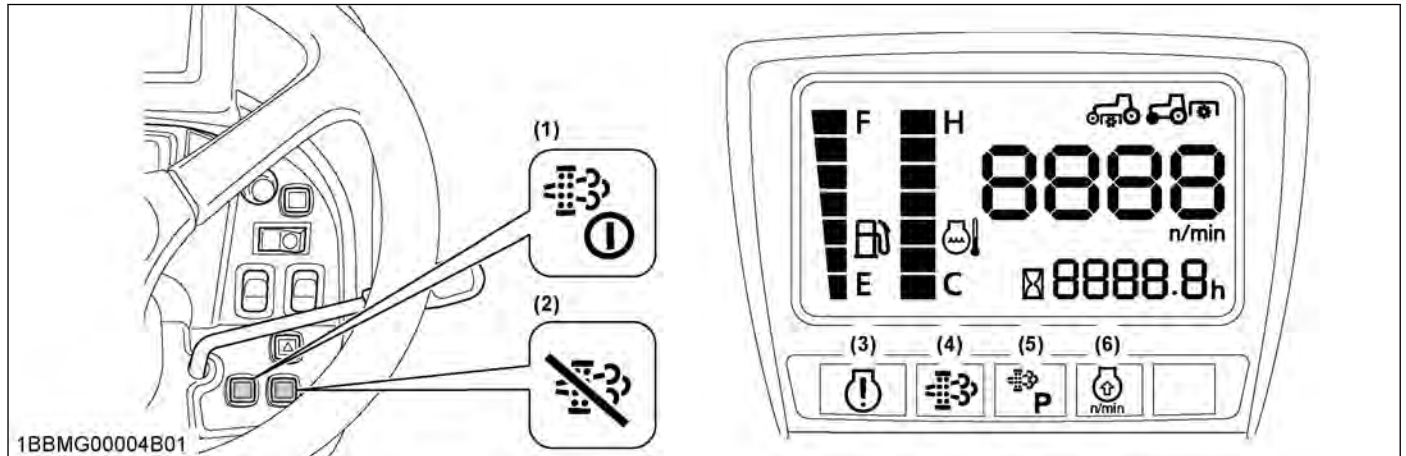
**IMPORTANT :**

- **Once the regeneration level has been reached, immediately perform the required procedure for regeneration.**  
**Interrupting the regeneration cycle or continuing operation while ignoring the warning signs may cause DPF and engine damage.**

| Auto mode  |  |  |
|--|--|--|
|  | DPF system status  | Required procedure   |
| PM warning level: 1<br>Buzzer: Not sounding                                  |  The regeneration indicator starts flashing.<br><br> The parked regeneration indicator starts flashing.<br><br> The regeneration indicator will stop flashing and remain "ON" constantly. | A specific amount of PM has accumulated in the DPF muffler.<br>Continue to work the tractor to raise the DPF temperature.<br><br>Continue the work and increase the engine rpm until the indicator turns "OFF".<br><br>The regeneration cycle begins and continues until cycle is complete then the indicator will turn "OFF".     |
| PM warning level: 2-1<br>Buzzer: Sounding every 5 seconds                    | If the regeneration cycle was interrupted or conditions are not satisfied for regeneration then DPF system is now in Level 2.<br><br> The regeneration indicator starts flashing.   | Start the regeneration, referring to PM warning level: 1 above.<br>Now the parked regeneration indicator starts flashing, and the parked regeneration can also be started.<br>If the regeneration conditions are not met, perform the parked regeneration procedure. (See Operating procedure for parked regeneration on page 49.) |
| PM warning level: 2-2<br>Buzzer: Sounding every 3 seconds                    |  The rpm increase indicator starts flashing.<br><br> The parked regeneration indicator starts flashing.  |  |
| PM warning level: 3<br>Buzzer: Sounding every 1 second<br>Engine output: 50% | If the regeneration fails in the warning level 2:<br><br> The engine warning indicator starts flashing.<br><br> The parked regeneration indicator starts flashing.   | Immediately discontinue working the tractor and begin the parked regeneration cycle process. (See Operating procedure for parked regeneration on page 49.)<br>At this PM warning level, the auto regeneration mode does not function.<br>If the tractor is operated further, the regeneration cycle will be disabled.              |
| PM warning level: 4<br>Buzzer: Sounding every 1 second<br>Engine output: 50% | If the parked regeneration is interrupted or the tractor is continuously operated in the warning level 3:<br><br> The engine warning indicator remains constantly "ON".   | Immediately move the tractor to a safe place, park it there and turn the engine "OFF".<br>Contact your local KUBOTA Dealer. <ul style="list-style-type: none"> <li>• At this level, do not continue to operate the tractor; otherwise, damage will result to the DPF and engine.</li> </ul>  |



## 4. Operating procedure for regeneration inhibit mode



(1) Parked regeneration switch

(2) DPF inhibit switch

(3) Engine warning indicator

(4) Regeneration indicator

(5) Parked regeneration indicator

(6) Engine rpm increase indicator


### Regeneration operating procedure

1. Start the engine.

2. Press the DPF inhibit switch  , and the switch lamp illuminates.

Switch lamp "ON": Regeneration inhibit mode selected.

Switch lamp "OFF": Auto regeneration mode selected.

3. When the parked regeneration indicator  starts flashing:

A specific amount of PM has accumulated in the DPF muffler.

Move the tractor to a safe place and activate the DPF muffler.








(See Operating procedure for parked regeneration on page 49.)

### 4.1 PM warning level and required procedures

In the regeneration inhibit mode, the buzzer starts sounding and the indicator display changes in response to the PM level in order to prompt the operator to perform the required procedure listed in the following table.


**IMPORTANT :**


- **Once the regeneration level has been reached, immediately perform the required procedure for regeneration.**  
**Interrupting the regeneration cycle or continuing operation while ignoring the warning signs may cause DPF and engine damage.**


| Regeneration inhibit mode  |   |   |
|--|---|---|
|  | DPF system status   | Required procedure  |
| PM warning level: 1<br>Buzzer: Not sounding                                  |  The regeneration indicator starts flashing.   | A specific level of PM has built up in the DPF muffler.<br>Continue with the operation as it is.  |
|  |  At PM warning levels range from 1 to 2-2, it is also possible to change DPF inhibit switch to auto regeneration mode, then perform the regeneration.  |   |
| PM warning level: 2-1<br>Buzzer: Sounding every 5 seconds                    |  The regeneration indicator starts flashing.   | Move the tractor to a safe area, then begin the parked regeneration cycle process.<br>(See Operating procedure for parked regeneration on page 49.)   |
| PM warning level: 2-2<br>Buzzer: Sounding every 3 seconds                    |  The parked regeneration indicator starts flashing.  |   |
| PM warning level: 3<br>Buzzer: Sounding every 1 second<br>Engine output: 50% | If the parked regeneration cycle is interrupted or the tractor is continuously operated in the PM warning level 2:  |   |
|  |  The engine warning indicator starts flashing.<br><br> The parked regeneration indicator starts flashing. | Immediately stop working the tractor, move the tractor to a safe area, then begin the parked regeneration cycle process.<br>(See Operating procedure for parked regeneration on page 49.)<br>If the tractor is operated further and the operator ignores the warning signs, then regeneration will be disabled. |
| PM warning level: 4<br>Buzzer: Sounding every 1 second<br>Engine output: 50% | If the regeneration cycle is interrupted or the tractor is continuously operated ignoring the warning signs, in the PM warning level 3:   |   |
|  |  The engine warning indicator remains constantly "ON".   | Immediately move the tractor to a safe place, park it there and turn the engine "OFF".<br>Contact your local KUBOTA Dealer. <ul style="list-style-type: none"> <li>• At this level, do not continue to operate the tractor; otherwise, damage may result to the DPF and engine.</li> </ul>                      |

## 5. Operating procedure for parked regeneration

1. Park the tractor in a safe area away from buildings, people, and animals.
2. Apply the parking brake.
3. Set the speed control pedal to the “NEUTRAL” position.
4. Set the speed set lever to the “OFF” position.
5. Set the PTO clutch lever to the “OFF” position.
6. Lower the implement to the ground.
7. Turn steering wheel so front wheels are in the straight ahead position.
8. Return the engine rpm to the idle speed.



9. Press the DPF inhibit switch  , and the switch lamp turns “OFF”.

10. When the regeneration conditions are satisfied (2 to 5 and 8, 9), the parked regeneration switch lamp  starts flashing.

11. Press the parked regeneration switch  to start the regeneration cycle.

The switch lamp will stop flashing and remain “ON” constantly during the cycle.

12. The engine rpm will automatically rise, and the regeneration process will begin.

13. Both indicators   stay “ON” while regenerating the DPF.

They turn “OFF” when the cycle is complete.

14. After the lamp turns “OFF”, normal tractor work may resume.

When driving in “Regeneration inhibit” mode, press the DPF inhibit switch to turn on the switch lamp.

### NOTE :

- **During the regeneration cycle, do not touch the above levers and switches (in steps 2, 3, 4, 5), nor change the engine rpm other than for an emergency stop. Otherwise, the regeneration will be interrupted.**
- **Never leave the tractor when the parked regeneration process is activated.**
- **If the parked regeneration cycle is interrupted, the engine rpm is fixed at the idling level for about 30 seconds. For this period, keep the hand throttle lever and foot throttle pedal at the idle position. Do not move them. They will function again in 30 seconds.**

## 6. Tips on diesel particulate filter (DPF) regeneration

### • Operation

The higher in speed or load the engine operates, the higher the exhaust temperature rises. As a result, particulate matter (PM) inside the DPF is consumed and the regeneration process is required less frequently over time.

The lower in speed or load the engine operates, the lower the exhaust temperature. Accordingly, less particulate matter (PM) inside the DPF is consumed and more accumulation of PM will occur, which requires frequent regeneration. Therefore, avoid prolonged idling if possible.

### • Necessary conditions for "Regeneration"

If even one condition is deviated, after starting regeneration, the regeneration will be interrupted.

- The engine coolant temperature.
- The DPF temperature.
- The engine speed is 1600 rpm or higher (depending on the environment).

- Usually, it takes 15 to 20 minutes to complete the regeneration cycle.

Actual regeneration time may depend on ambient temperature, exhaust temperature and engine speed.

- It is recommended to do the regenerating while the engine is warm and high revolution.
- Do not unnecessarily start and interrupt the regeneration process. Otherwise, a small amount of fuel becomes mixed with the engine oil, which degrades the oil quality.
- While the DPF is being regenerated, the engine air flow rate is automatically limited to keep up the exhaust temperature. Because of this, the engine may sound differently, but this is normal for this engine.
- Just after the regeneration has ended, the DPF muffler remains hot. It is advisable to keep the engine running for about 5 minutes to allow cooling of the exhaust components.

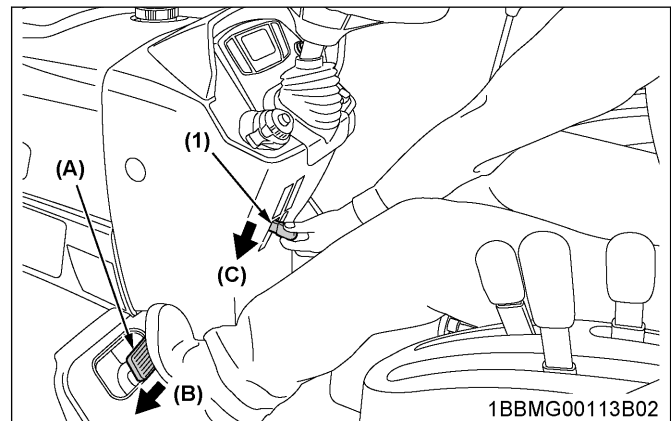
## STARTING THE ENGINE

1. Make sure the parking brake is set.
  - a. Interlock the brake pedals.
  - b. Depress the brake pedals.
  - c. Latch the brake pedals with the parking brake lever.

### NOTE :

- Then the parking brake is set while the key switch is "ON", the parking brake warning indicator light on the Easy Checker™ will turn on.

### ROPS model



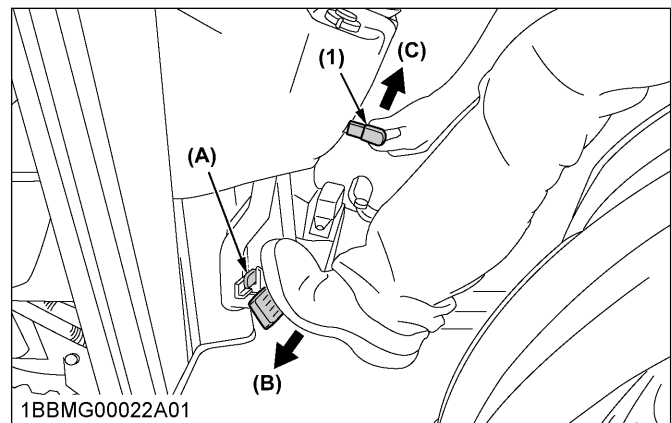
(1) Parking brake lever

(A) "Interlock the brake pedals"

(B) "DEPRESS"

(C) "PULL DOWN"

### CAB model

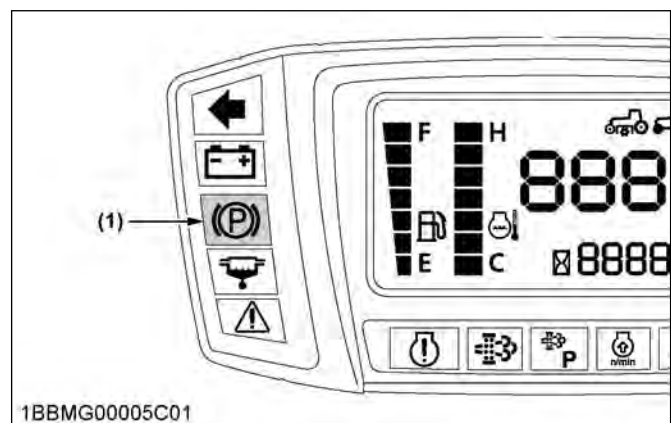


(1) Parking brake lever

(A) "Interlock the brake pedals"

(B) "DEPRESS"

(C) "PULL UP"

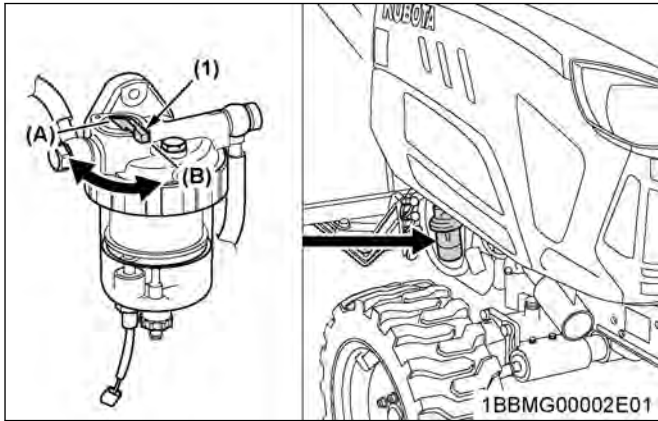


(1) Parking brake warning indicator

### IMPORTANT :

- It is recommended that the operator practice engaging and disengaging the parking brake on a flat surface without the engine running before operating the tractor for the first time.

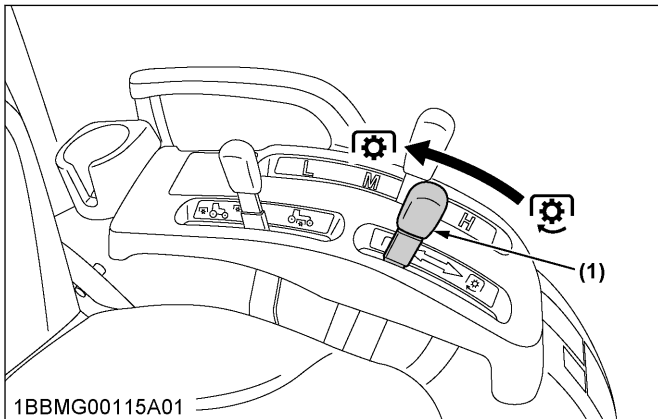
- Make sure the fuel shutoff-valve is in the "OPEN" position. [LX3310 only]



(1) Fuel shutoff-valve  
 (A) "CLOSE"  
 (B) "OPEN"

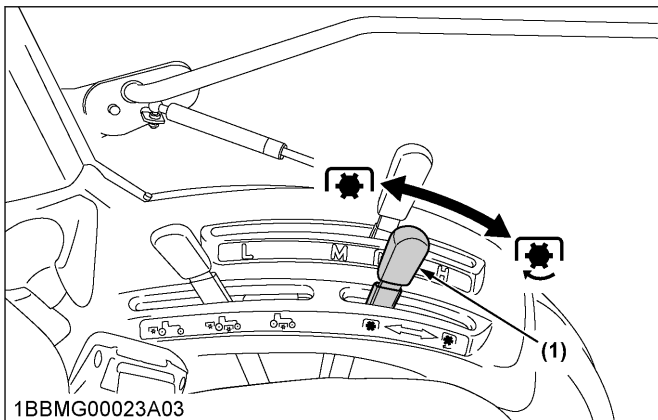
- Place the PTO clutch lever in the "OFF" position.

**ROPS model**



(1) PTO clutch lever  
 "ON" "ENGAGE"  
 "OFF" "DISENGAGE"

**CAB model**

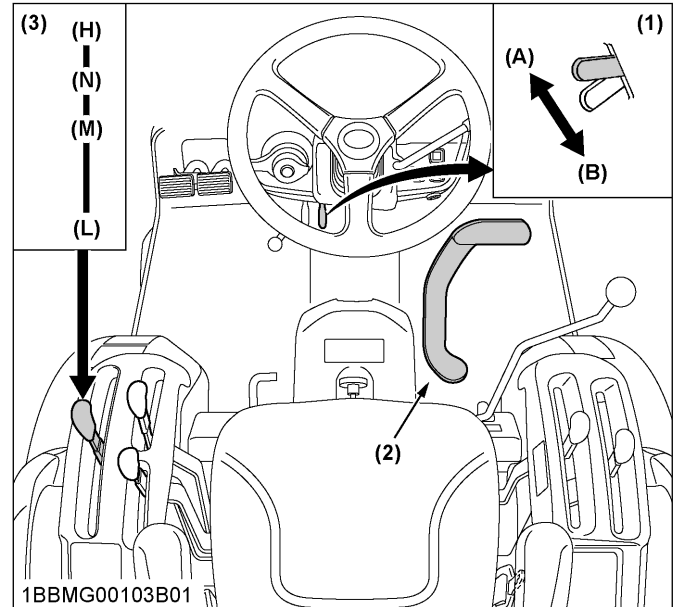


(1) PTO clutch lever  
 "ON" "ENGAGE"  
 "OFF" "DISENGAGE"

- Place the travel speed control device in the "OFF" position or the "NEUTRAL" position.

• **ROPS model**

- Place the speed set lever in "OFF" position. [except LX2610SU]
- Place the speed control pedal in the "NEUTRAL" position.
- Place the range gear shift lever in the "NEUTRAL" position.



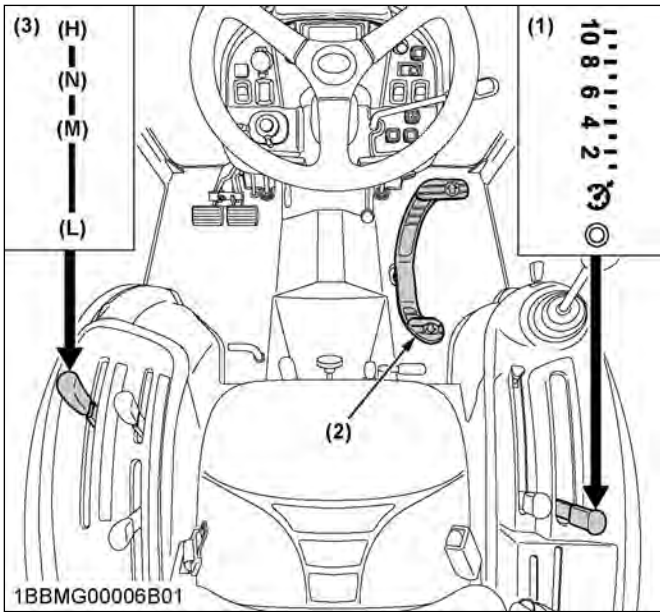
(1) Speed set lever [except LX2610SU]  
 (2) Speed control pedal  
 (3) Range gear shift lever  
 (A) "OFF"  
 (B) "ON"  
 (H) "HIGH"  
 (N) "NEUTRAL POSITION"  
 (M) "MIDDLE"  
 (L) "LOW"

**NOTE :**

- Depress the both brake pedals together, doing so the speed set lever automatically returns to the off position.
- By removing your foot from the speed control pedal, it will allow the pedal to automatically return to the neutral position.

• **CAB model**

- Make sure the cruise control lever is in the "NEUTRAL" position.
- Place the speed control pedal in the "NEUTRAL" position.
- Place the range gear shift lever in the "NEUTRAL" position.



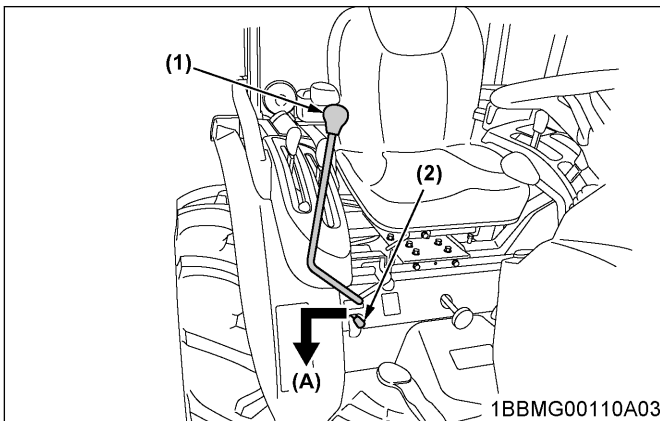
- |                            |                             |
|----------------------------|-----------------------------|
| (1) Cruise control lever   | (H) "HIGH"                  |
| (2) Speed control pedal    | (N) "NEUTRAL POSITION"      |
| (3) Range gear shift lever | (M) "MIDDLE"                |
|                            | (L) "LOW"                   |
|                            | ⊙ Cruise "NEUTRAL POSITION" |

**NOTE :**

- Depress the both brake pedals together, doing so the cruise control lever automatically returns to the off position.
- By removing your foot from the speed control pedal, it will allow the pedal to automatically return to the neutral position.

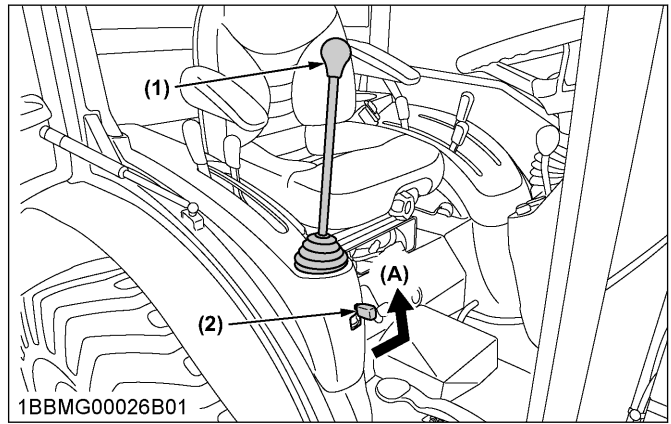
5. Lock the loader control lever in the "LOCK" position.

**ROPS model**



- |                          |            |
|--------------------------|------------|
| (1) Loader control lever | (A) "LOCK" |
| (2) Lock lever           |            |

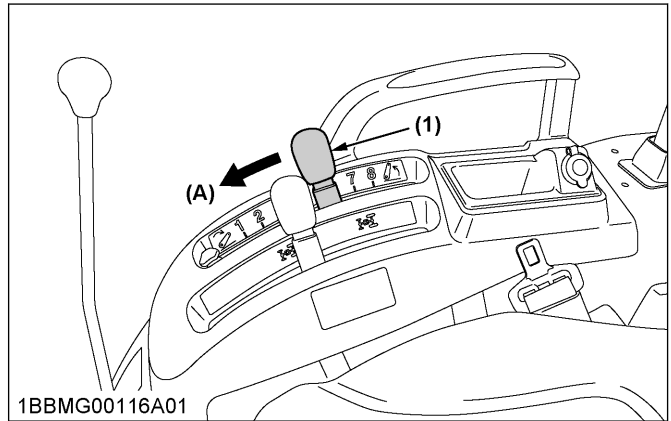
**CAB model**



- |                          |            |
|--------------------------|------------|
| (1) Loader control lever | (A) "LOCK" |
| (2) Lock lever           |            |

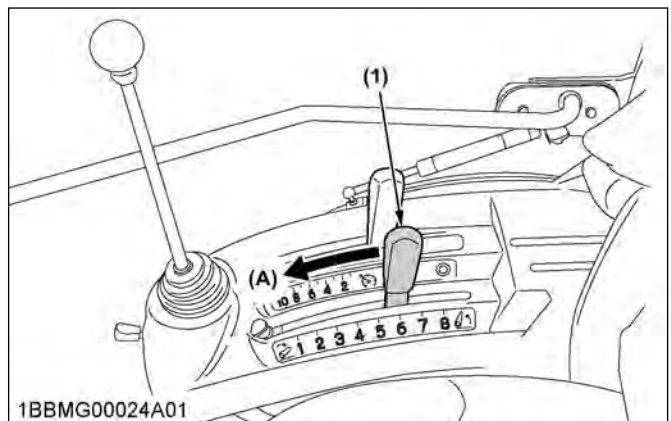
6. Place the position control lever in the "LOWEST" position.

**ROPS model**



- |                            |            |
|----------------------------|------------|
| (1) Position control lever | (A) "DOWN" |
|----------------------------|------------|

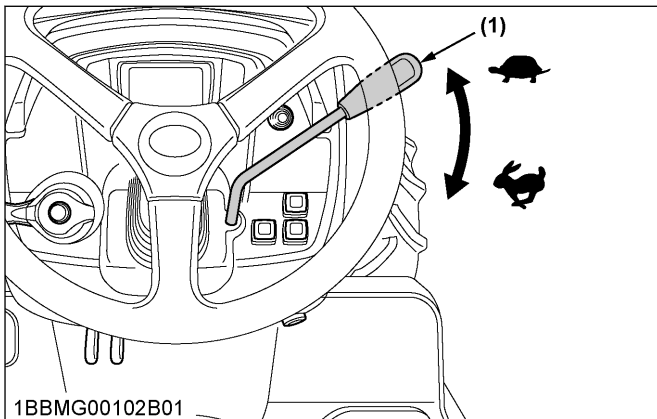
**CAB model**



- |                            |            |
|----------------------------|------------|
| (1) Position control lever | (A) "DOWN" |
|----------------------------|------------|

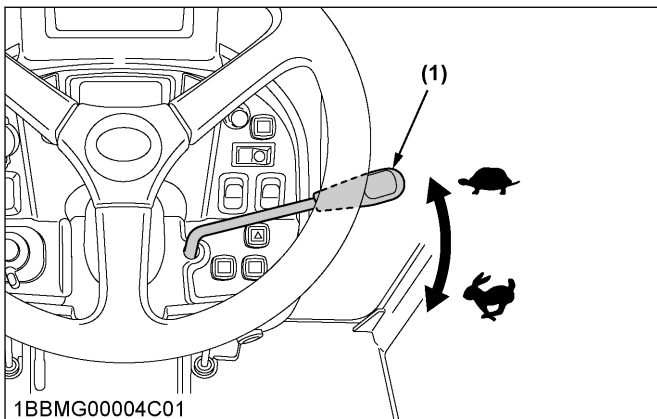
7. Set the throttle lever at the minimum speed position.

**ROPS model**



(1) Hand throttle lever      ↑ "INCREASE"  
    ↓ "DECREASE"

**CAB model**

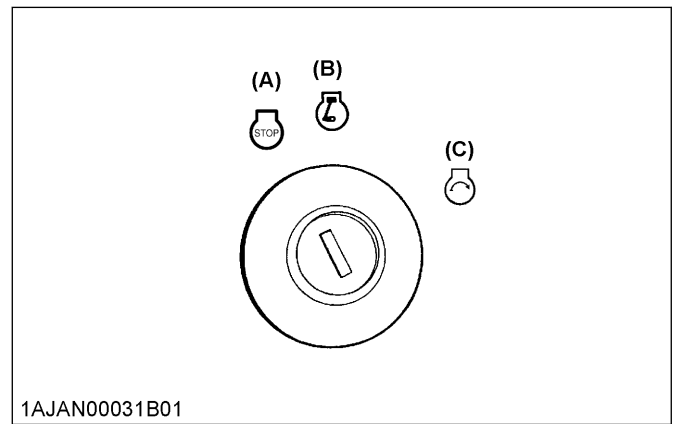


(1) Hand throttle lever      ↑ "INCREASE"  
    ↓ "DECREASE"

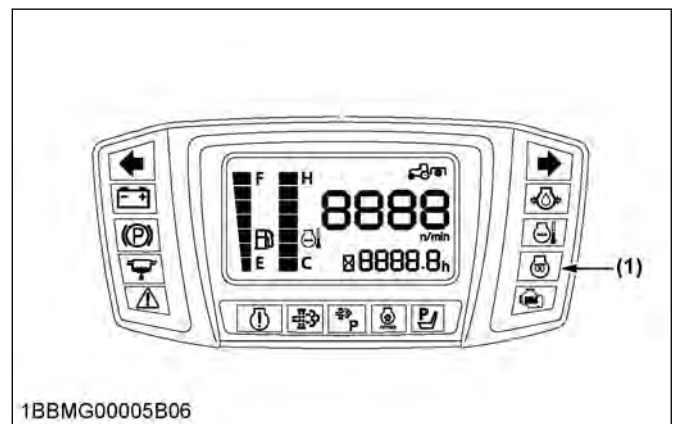
8. Insert the key into the key switch and turn it "ON".

- [LX3310]

If the ambient temperature is below 0 °C (32 °F) and the engine is very cold, turn the key to "ON" position and hold it until the heater indicator turns off.



⏻ "OFF" (Engine - stop)  
 ⏻ "ON" (Engine - run)  
 ⏻ "START" (Engine - start)



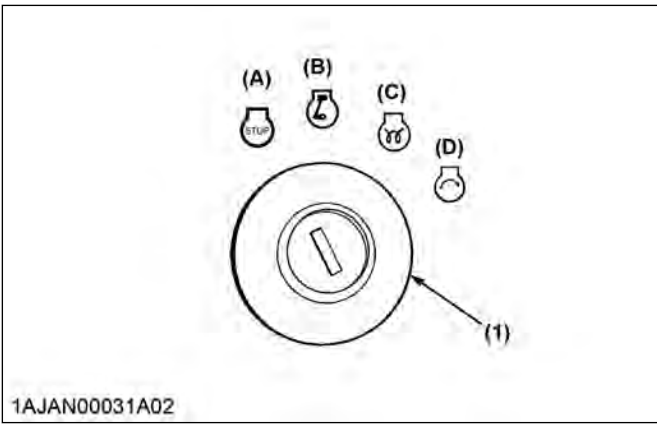
(1) Heater indicator

- [LX2610/LX2610SU]

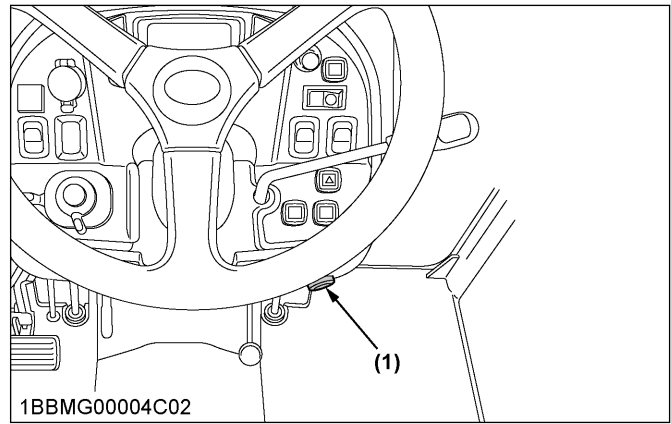
If the ambient temperature is below 0 °C (32 °F) and the engine is very cold, turn the key to the "PREHEAT" position.

For the appropriate preheating time, see to following table.

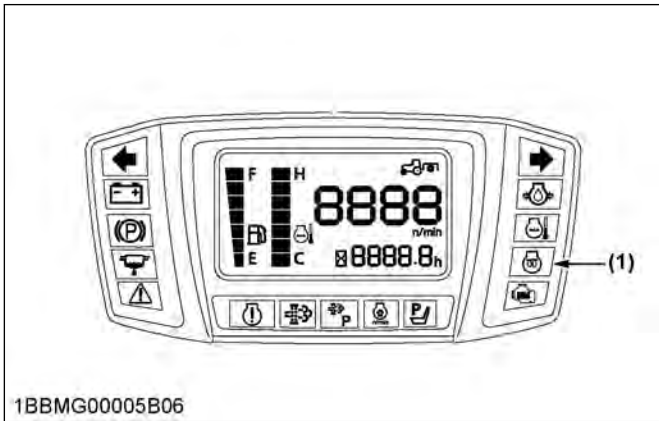
| Temperature               | Preheating time |
|---------------------------|-----------------|
| Over 0 °C (32 °F)         | 2 to 3 sec.     |
| 0 to -5 °C (32 to 23 °F)  | 5 sec.          |
| -5 to -15 °C (23 to 5 °F) | 10 sec.         |



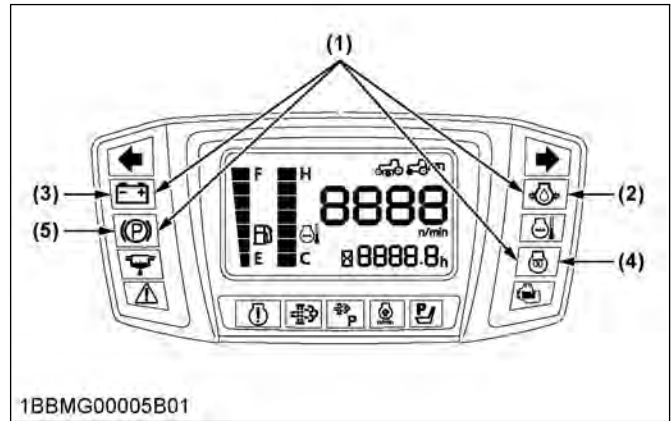
- "OFF"
- "ON"
- "PREHEAT "
- "START"



(1) Key switch



(1) Glow plug indicator



- (1) Easy Checker™
- (2) Engine oil pressure warning indicator
- (3) Electrical charge warning indicator
- (4) Glow plug indicator [LX2610/LX2610SU]  
Heater indicator [LX3310]
- (5) Parking brake warning indicator

**NOTE :**

- Glow plug indicator comes on while engine is being preheated.

9. Check the Easy Checker™ indicators.
  - a. When the key is turned "ON", Engine oil pressure warning indicator and Electrical charge warning indicator should come on. If trouble should occur at any location while the engine is running, the indicator lamp corresponding to problem will turn "ON".
  - b. If the parking brake warning indicator does not illuminate, make sure the parking brake is set.

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

**IMPORTANT :**

- Because of the safety devices, the engine will not start except when the PTO clutch lever is placed in the "OFF" position.
- If the engine fails to start after 10 seconds, turn off the key for 30 seconds. Then repeat steps 8 through 9. To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.

11. Check to see that all the indicators on the Easy Checker™ are "OFF". If an indicator is still on, immediately stop the engine and determine the cause.



## OPERATING THE ENGINE IN FREEZING CONDITIONS

### 1. 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 -15 °C (5 °F).

## STOPPING THE ENGINE

- After slowing the engine to idle.
  - [L3310]  
Wait 3 to 5 minutes for the turbo to slow down and then turn off the key switch to the "OFF" position.
  - [LX2610/LX2610SU]  
Turn off the key switch to the "OFF" position.
- Remove the key.

#### NOTE :

- If removing the key does not stop the engine, consult your local KUBOTA Dealer.

## WARMING UP THE ENGINE



### WARNING

To avoid personal injury or death:

- Be sure to set the parking brake during warm-up.
- Be sure to set all shift levers to the "NEUTRAL" positions and to place PTO clutch lever in "OFF" position during warm-up.

For 5 minutes after engine start-up, allow the engine to warm up without applying any load; this is to allow oil to reach every engine part. If load should be applied to the engine without this warm-up period, trouble such as seizure, breakage or premature wear may develop.

### 1. Warm-up and transmission fluid at low temperature range

Hydraulic oil serves as transmission fluid. In cold weather, the oil may be cold with increased viscosity. This can cause delayed oil circulation or abnormally low hydraulic pressure for some time after engine start-up. This, in turn, can result in trouble in the hydraulic system.

To prevent the above, observe the following instructions:

Warm up the engine at about 50% of rated rpm according to the following table:

| Ambient temperature         | Warm-up time requirement |
|-----------------------------|--------------------------|
| Higher than 0 °C (32 °F)    | Approx. 5 minutes        |
| 0 to -10 °C (32 to 14 °F)   | 5 to 10 minutes          |
| -10 to -20 °C (14 to -4 °F) | 10 to 15 minutes         |
| Below -20 °C (-4 °F)        | More than 15 minutes     |

#### IMPORTANT :

- Do not operate the tractor under full load condition until it is sufficiently warmed up.

## JUMP STARTING



### WARNING

To avoid personal injury or death:

- Battery gases can explode. Keep cigarettes, sparks, and flames away from the battery.
- If the tractor battery is frozen, do not jump start engine.
- Do not connect the other end of the negative (-) jumper cable to the negative (-) terminal of the tractor battery.
- When taking out the dead battery, putting in the battery or fixing the battery, do not allow the positive (+) terminal of the battery to touch other parts.

When jump starting the engine, follow the instructions below to safely start the engine.

- Bring the helper vehicle with a battery of the same voltage as the disabled tractor within easy cable reach.

#### IMPORTANT :

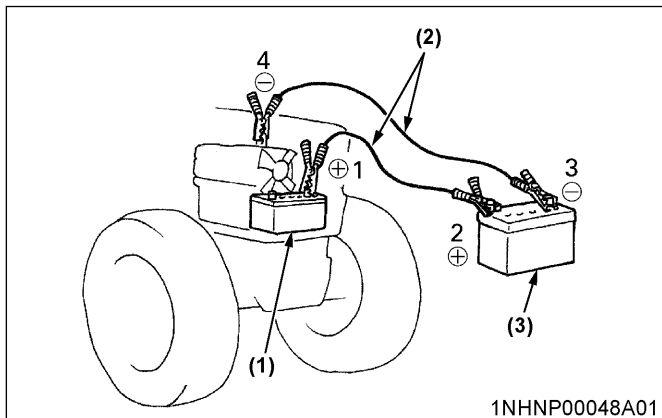
- The vehicles must not touch.
- Engage the parking brakes of both vehicles and put the shift levers in neutral. Shut both engines off.
  - Wear eye protection and rubber gloves.
  - Attach the red clamp to the positive (red, (+) or positive) terminal of the dead battery and clamp the other end of the same cable to the positive (red, (+) or positive) terminal of the helper battery.
  - Clamp the other cable to the negative (black, (-) or negative) terminal of the helper battery.
  - Clamp the other end to the engine block or frame of the disabled tractor as far from the dead battery as possible.
  - Start the helper vehicle and let its engine run for a few moments. Start the disabled tractor.

## OPERATING THE ENGINE

- Disconnect the jumper cables in the exact reverse order of attachment (steps 6, 5 and 4).

Connect cables in numerical order.

Disconnect in reverse order after use.



- (1) Dead battery
- (2) Jumper cables
- (3) Helper battery

### IMPORTANT :

- This tractor has a 12 volt negative (-) ground starting system.
- Use only the same voltage for jump starting.
- Use of a higher voltage source on tractor's electrical system could result in severe damage to tractor's electrical system.  
Use only matching voltage source when "Jump starting" a low or dead battery condition.
- Do not operate the tractor with the battery cable disconnected from the battery.
- Do not operate the tractor without the battery mounted.
- Do not operate the tractor with the battery dead. Charge the battery fully before operating the tractor.  
Otherwise, the tractor might malfunction.

# OPERATING THE TRACTOR

## OPERATING NEW TRACTOR

How a new tractor is handled and maintained determines the life of the tractor.

A new tractor just off the factory production line has been, of course, tested, but the various parts are not accustomed to each other, so care should be taken to operate the tractor for the first 50 hours at a slower speed and avoid excessive work or operation until the various parts become “*broken-in*”. The manner in which the tractor is handled during the “*breaking-in*” period greatly affects the life of your tractor.

Therefore, to obtain the maximum performance and the longest life of the tractor, it is very important to properly break-in your tractor. In handling a new tractor, the following precautions should be observed.

### 1. Do not operate the tractor at full speed for the first 50 hours

- Do not start quickly nor apply the brakes suddenly.
- In winter, operate the tractor after fully warming up the engine.
- Do not run the engine at speeds faster than necessary.
- On rough roads, slow down to suitable speeds. Do not operate the tractor at high speed.

The above precautions are not limited only to new tractors, but to all tractors. However, they should be especially observed in the case of new tractors.

### 2. Changing lubricating oil for new tractors

The lubricating oil is especially important in the case of a new tractor. The various parts are not “*broken-in*” and are not accustomed to each other. Small metal grit may develop during the operation of the tractor, and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than would ordinarily be required.

For more details, read the maintenance section of this manual.

(See MAINTENANCE on page 103.)

## BOARDING AND LEAVING THE TRACTOR

- Never try to get on or off a moving tractor or jump off the tractor to exit.

- Face the tractor when getting into or out of the tractor. Do not use the controls as hand holds to prevent inadvertent machine movements.
- Always keep steps and floor clean to avoid slippery surface.

## OPERATING FOLDABLE ROPS (IF EQUIPPED)

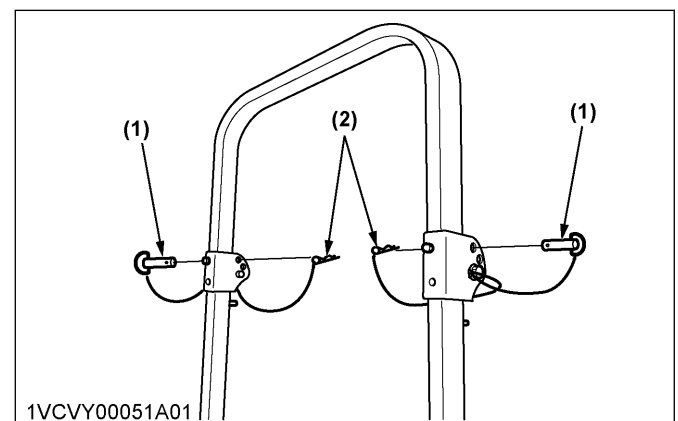
### WARNING

To avoid personal injury or death:

- When raising or folding the ROPS, apply parking brake, stop the engine and remove the key.  
Always perform function from a stable position at the rear of the tractor.
- Fold the ROPS down only when absolutely necessary and fold it up and lock it again as soon as possible.
- Before proceeding to fold ROPS, check for any possible interference with installed implements and attachments.  
If interference occurs, contact your KUBOTA Dealer.

### 1. Folding the ROPS

1. Remove both set bolts, maintain a hold on the ROPS.



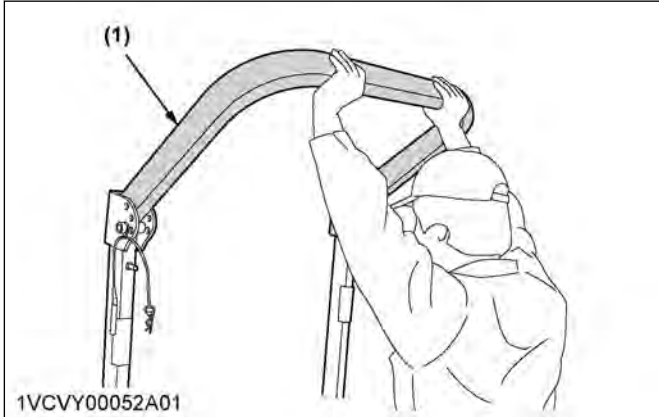
- (1) Set bolt
- (2) Hair pin

2. Fold the ROPS.

**CAUTION**

To avoid personal injury:

- Hold the ROPS tightly with both hands and fold the ROPS slowly and carefully.



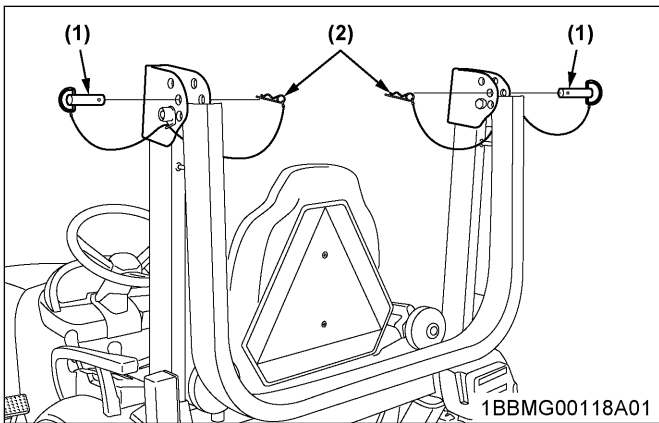
(1) ROPS

3. Insert both set bolts and secure them with the hair pins.

**CAUTION**

To avoid personal injury:

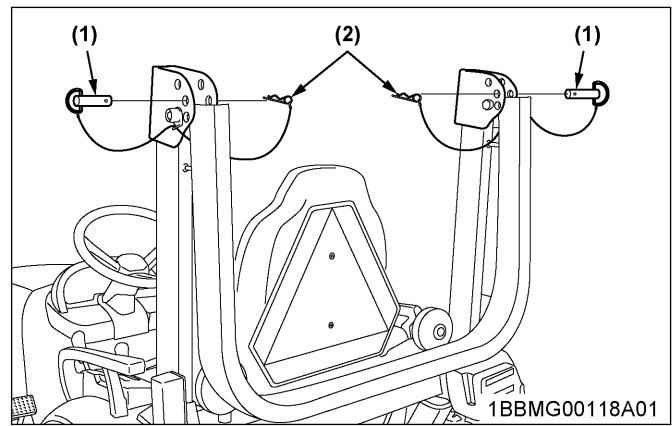
- Make sure that both set bolts are properly installed and secured with the hair pins.



(1) Set bolt  
(2) Hair pin

**2. Raising the ROPS to upright position**

1. Remove both hair pins and set bolts.



(1) Set bolt  
(2) Hair pin

2. Raise ROPS to the upright position, maintain a hold on the ROPS.

**CAUTION**

To avoid personal injury:

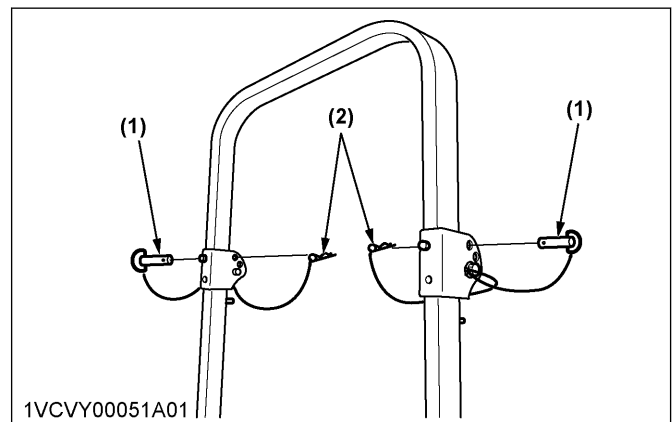
- Raise the ROPS slowly and carefully.

3. Insert both set bolts and secure them with the hair pins.

**CAUTION**

To avoid personal injury:

- Make sure that both set bolts are properly installed as soon as the ROPS is in the upright position and secured with the hair pins.

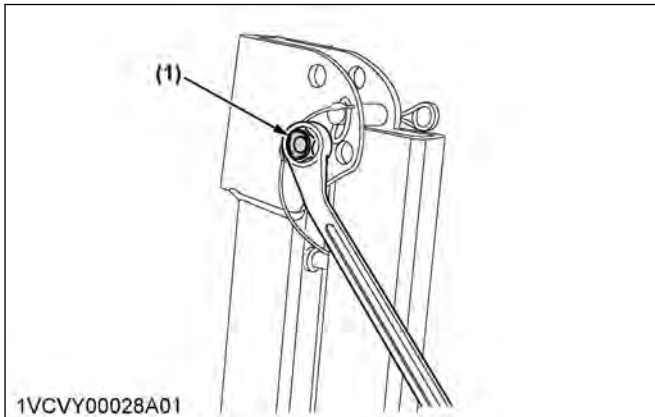


(1) Set bolt  
(2) Hair pin

**3. Adjustment of foldable ROPS**

1. Adjust free fall of the ROPS upper frame regularly.

- If you feel less friction in folding the ROPS, tighten the nut (1) until you feel the right friction in the movement.



(1) Nut

## STARTING THE TRACTOR

- Adjusting the operator's position.

### NOTE :

- The seat and suspension should be adjusted to ensure that the controls are comfortably at hand for the operator, ensuring that the operator maintains a good posture and minimizes risks from whole body vibration.

- Operator's seat on page 59
  - Seat belt on page 60
  - Tilt steering adjustment [except LX2610SU] on page 60
- Selecting light switch position.
    - Headlight switch on page 61
    - Turn signal switch and hazard light switch on page 61
  - Checking the brake pedal.
    - Brake pedals (right and left) on page 62
  - Pull the position control lever to raise the implement.
    - Position control on page 83
  - Selecting the travel speed.
    - Range gear shift lever (L-M-H) on page 63
    - Front wheel drive lever on page 64
  - Accelerate the engine.
    - Hand throttle lever on page 65
  - Unlock the brake pedals.
    - Parking brake lever on page 63
  - Depress the Speed Control Pedal.
    - Speed control pedal on page 65
    - Speed set lever [LX2610/LX3310 ROPS model] on page 65
    - Cruise control lever [LX2610/LX3310 CAB model] on page 66

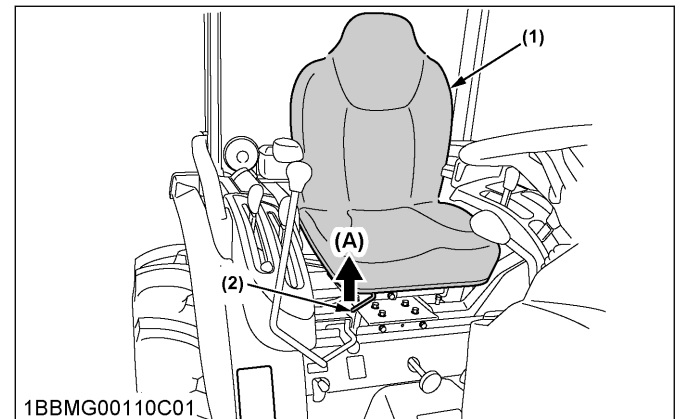
## 1. Operator's seat

### ⚠ WARNING

To avoid personal injury or death:

- Make adjustments to the seat only while the tractor is stopped.
- Make sure that the seat is completely secured after each adjustment.
- Do not allow any person other than the driver to ride on the tractor.

[LX2610/LX3310 ROPS model]



(1) Seat  
(2) Position adjust lever

(A) "PULL UP"

### Position adjustment

Pull in the position adjust lever and slide the seat backward or forward, as required. The seat will lock in position when the lever is released.

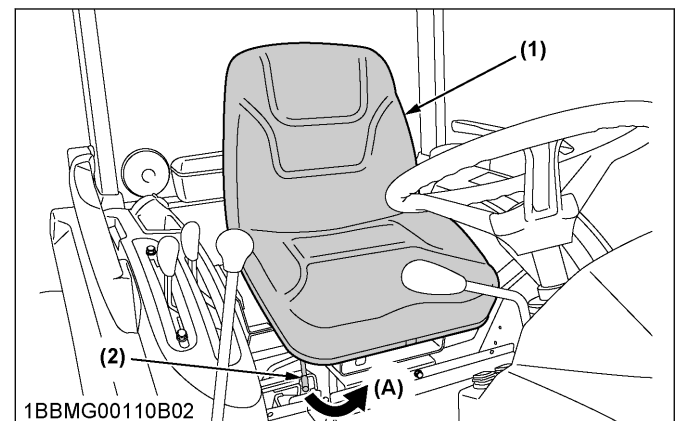
### Armrest angle adjustment

Armrest may be set upright position if desired.

### IMPORTANT :

- After adjusting the operator's seat, be sure to check that the seat is properly locked.

[LX2610SU ROPS]



(1) Seat  
(2) Position adjust lever

(A) "PULL IN"

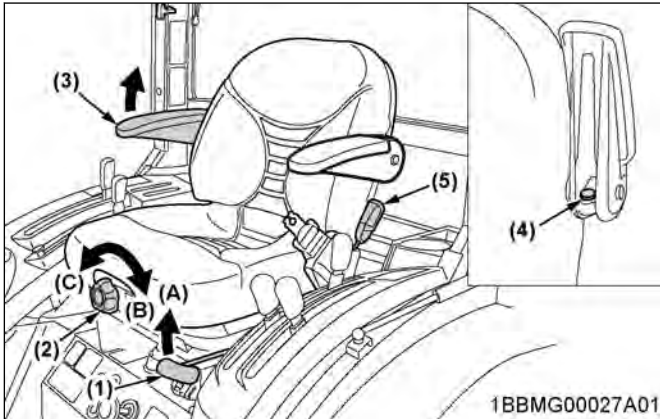
**Position adjustment**

Pull in the position adjust lever and slide the seat backward or forward, as required. The seat will lock in position when the lever is released.

**IMPORTANT :**

- After adjusting the operator's seat, be sure to check that the seat is properly locked.

[LX2610/LX3310 CAB model]



- |                                |                           |
|--------------------------------|---------------------------|
| (1) Travel adjust lever        | (A) "UNLOCK"              |
| (2) Suspension adjust lever    | (B) "TO INCREASE TENSION" |
| (3) Arm rest                   | (C) "TO DECREASE TENSION" |
| (4) Arm rest angle adjust knob |                           |
| (5) Backrest tilt adjust lever |                           |

**Travel adjustment**

Unlock the travel adjust lever and slide the seat backward or forward, as required. The seat will lock in position when the lever is released.

**Suspension adjustment**

Turn the suspension adjust lever to achieve the optimum suspension setting.

**Tilt adjustment**

Pull the backrest tilt adjust lever and tilt the backrest to the desired position.

**Arm rest**

Armrest may be set at upright position if desired.

**Armrest angle adjustment**

Turn the arm rest angle adjust knob to the desired angle.

**IMPORTANT :**

- After adjusting the operator's seat, be sure to check to see that the seat is properly locked.

**2. Seat belt**

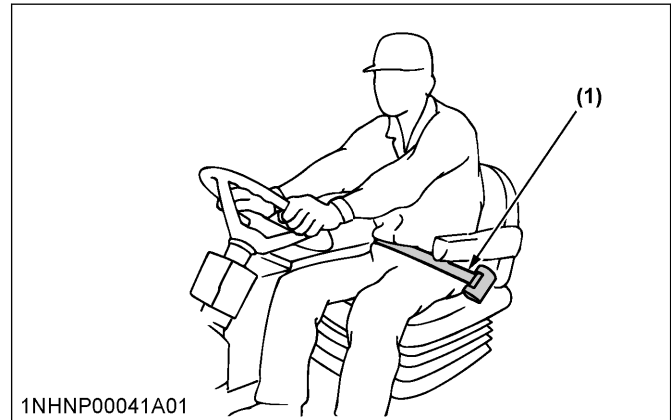
**WARNING**

To avoid personal injury or death:

- Always use the seat belt when a ROPS or CAB is installed.

- Do not use the seat belt if the foldable ROPS is down or if there is no ROPS.

Adjust the seat belt for proper fit and connect the buckle. This seat belt is auto-locking retractable type.



1NHNP00041A01  
(1) Seat belt

**3. Tilt steering adjustment [except LX2610SU]**

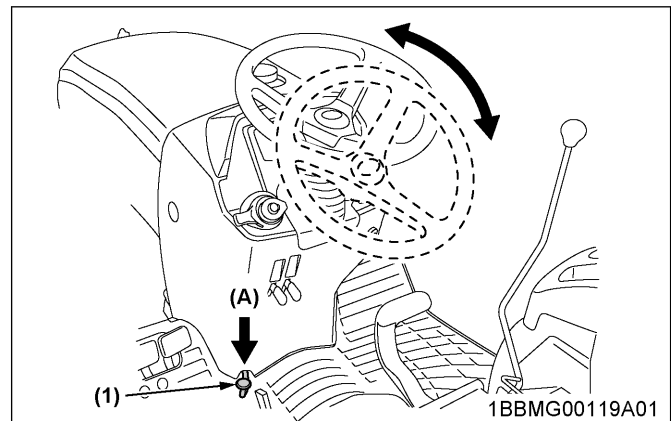
**CAUTION**

To avoid personal injury:

- Do not adjust the steering wheel while the tractor is in motion.

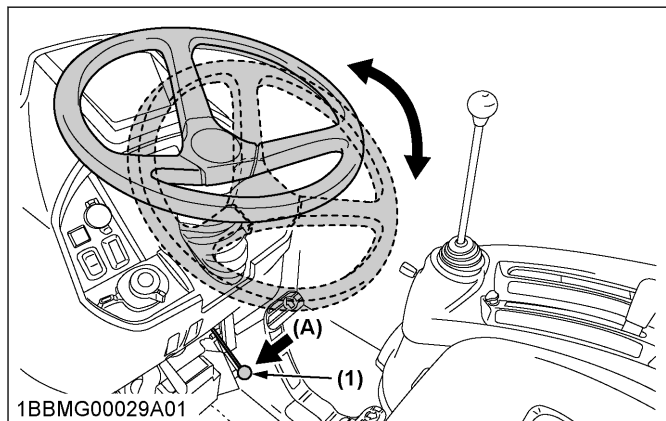
Press down the steering wheel tilt pedal to release the lock, so that the steering wheel can be adjusted to the desired position.

**ROPS model**



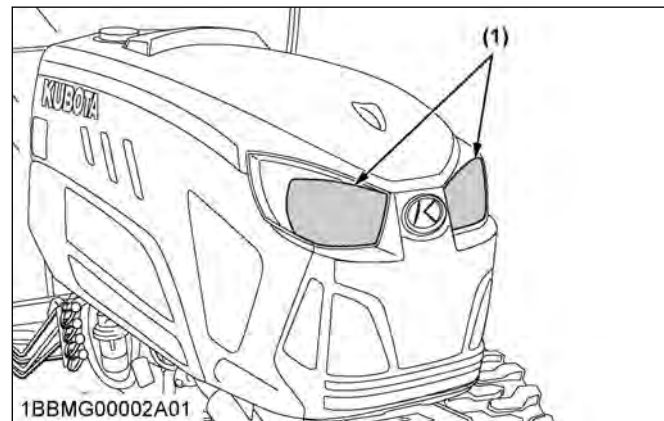
(1) Steering wheel tilt pedal (A) "Press down"

**CAB model**



(1) Steering wheel tilt pedal (A) "Press down"

**All model**

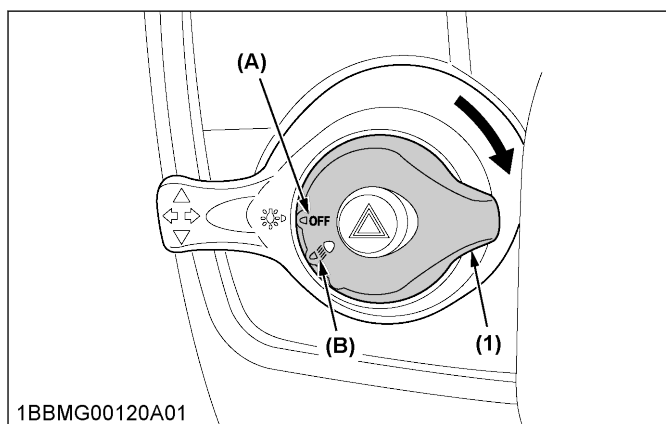


(1) Headlight

**4. Headlight switch**

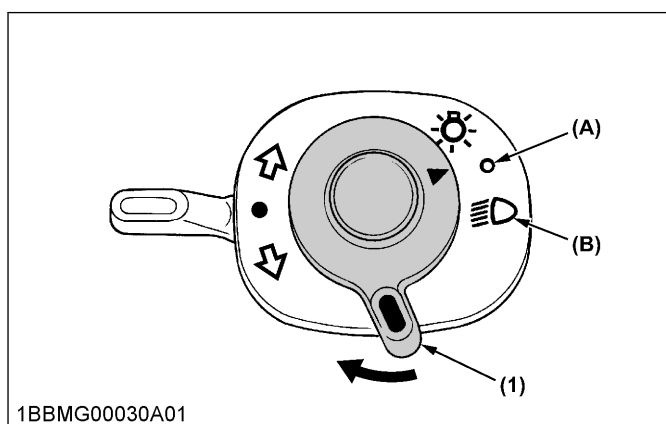
Turn the headlight switch clockwise, and the following lights are activated on the switch position.

**ROPS model**



(1) Headlight switch (A) "OFF" (B) "ON"

**CAB model**



(1) Headlight switch (A) "OFF" (B) "ON"

**5. Turn signal switch and hazard light switch**

**Hazard light**

1. When the hazard light switch is pushed, the hazard lights flash, along with the LH and RH indicators on the instrument panel.
2. Push the hazard light switch again to turn off the hazard lights.

**Turn signal with hazard light switch on**

1. To indicate a right turn with the hazard lights already flashing (hazard switch on), turn the turn signal switch clockwise.
2. To indicate a left turn with the hazard lights already flashing, turn the turn signal switch counterclockwise.
3. When the left or right turn signal is activated in combination with the hazard lights, the indicated turning light will flash and the other will stay on.

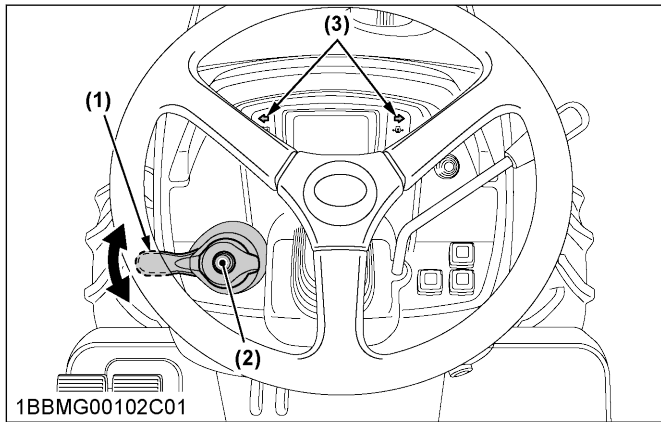
**Turn signal with hazard light switch off**

1. To indicate a right turn without hazard lights (hazard switch off), turn the turn signal switch clockwise.
2. To indicate a left turn without hazard lights, turn the turn signal switch counterclockwise.
3. When the left or right turn signal is activated without the hazard lights, the indicated turning light will flash.

**NOTE :**

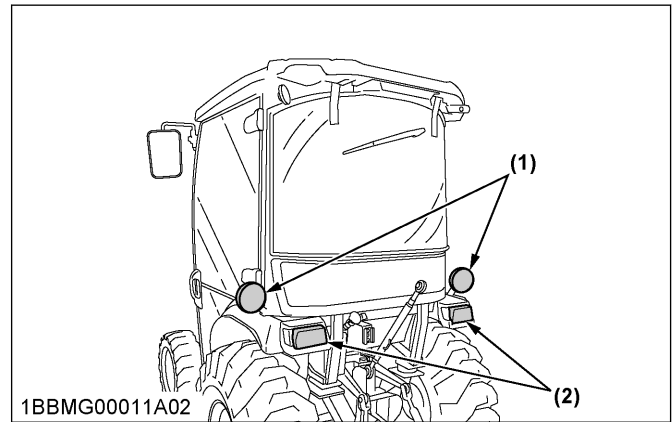
- The hazard light switch is operative when the key switch is in either the "ON" or "OFF" position.
- The turn signal light switch is only operative when the key switch is in the "ON" position.
- The indicator in the hazard light switch will light up when the head light switch is turned on.
- Be sure to return the turn signal switch to its center position after turning.

**ROPS model**



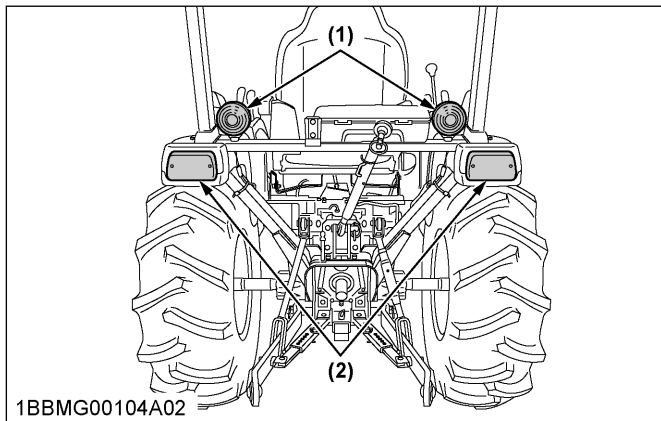
- (1) Turn signal light switch
- (2) Hazard light switch
- (3) Hazard and turn signal indicator

**CAB model**



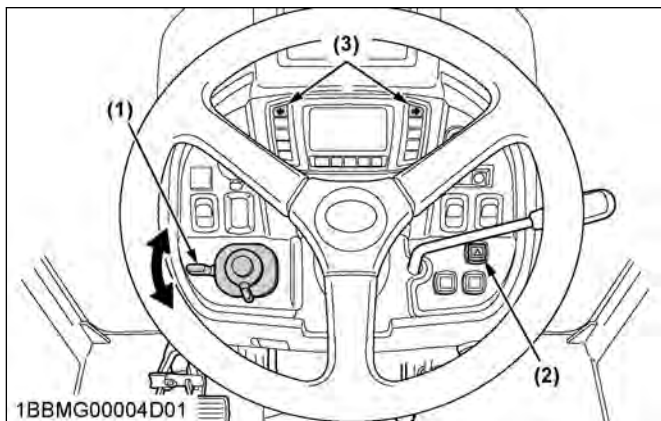
- (1) Turn signal and hazard light
- (2) Tail light and turn signal light and hazard light

**ROPS model**



- (1) Turn signal and hazard light
- (2) Tail light and turn signal light and hazard light

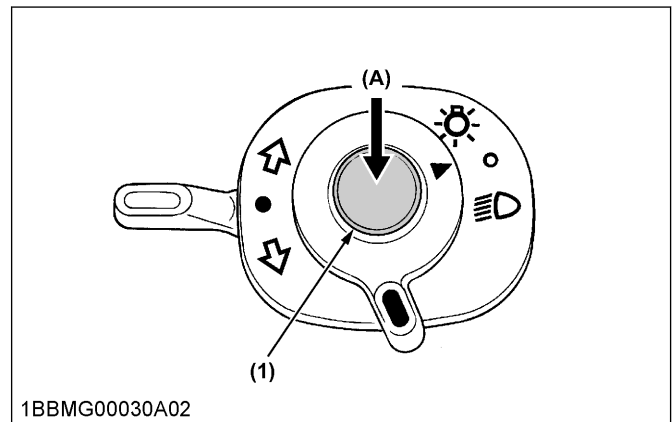
**CAB model**



- (1) Turn signal light switch
- (2) Hazard light switch
- (3) Hazard and turn signal indicator

**6. Horn button [CAB only]**

The horn will sound when the key switch is in "ON" position and horn button is pushed.



- (1) Horn button
- (A) "Push to sound horn"

**7. Brake pedals (right and left)**

**! WARNING**

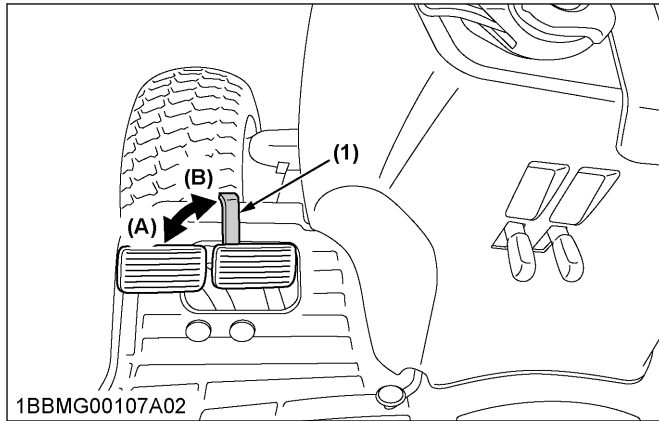
To avoid personal injury or death:

- Be sure to interlock the right and left pedals. Applying only one rear wheel brake at high speeds could cause the tractor to swerve or roll-over.
- Do not brake suddenly. An accident may occur as a result of a heavy towed load shifting forward or loss of control.
- To avoid skidding and loss of steering control when driving on icy, wet, or loose surfaces, make sure the tractor is correctly ballasted, operated at reduced speed and operated with the front-wheel drive engaged (if equipped).
- The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.



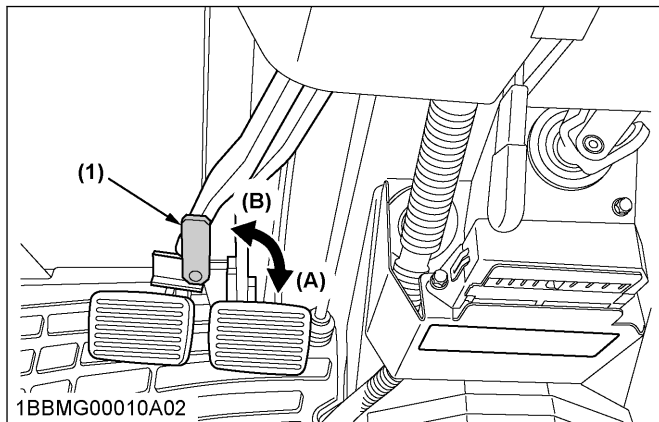
1. Before operating the tractor on the road or before applying the parking brake, be sure to interlock the right and left pedals as in the following illustration.
2. Use individual brakes to assist in making sharp turns at low speeds (field operation only). Disengage the brake pedal lock and depress only one brake pedal.
3. Be sure brake pedals have equal adjustment when being used locked together.

**ROPS model**



(1) Brake pedal lock (A) "LOCK" (B) "RELEASE"

**CAB model**

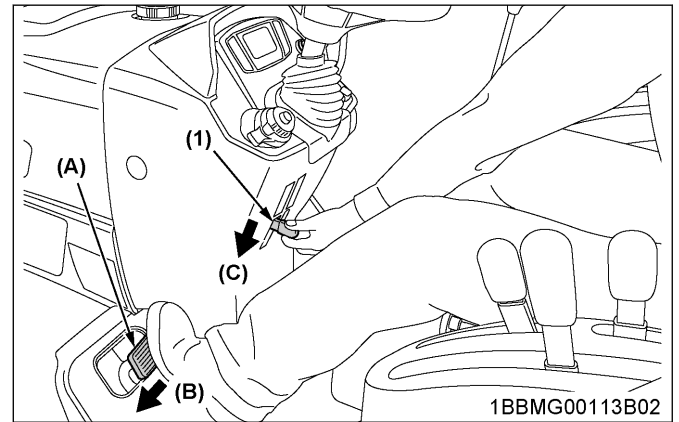


(1) Brake pedal lock (A) "LOCK" (B) "RELEASE"

**8. Parking brake lever**

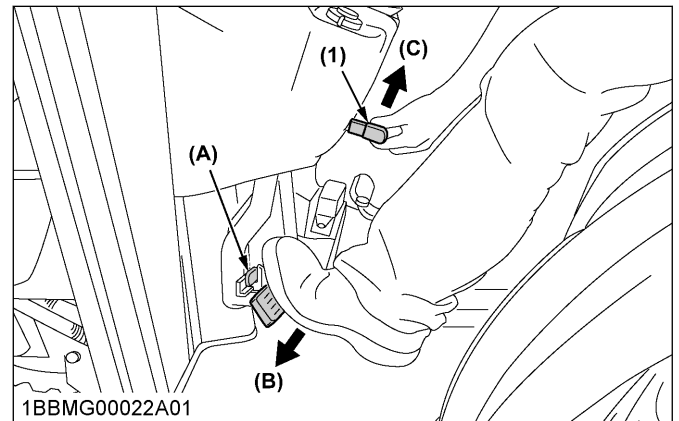
1. To set the parking brake;
  - a. Interlock the brake pedals.
  - b. Depress the brake pedals.
  - c. Latch the brake pedals with the parking brake lever.
2. To release the parking brake, depress the brake pedals again.

**ROPS model**



(1) Parking brake lever (A) "Interlock the brake pedals" (B) "DEPRESS" (C) "PULL DOWN"

**CAB model**



(1) Parking brake lever (A) "Interlock the brake pedals" (B) "DEPRESS" (C) "PULL UP"

**9. Range gear shift lever (L-M-H)**

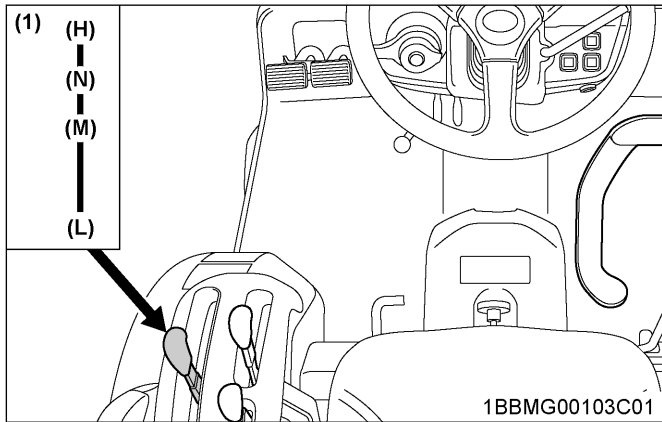
The range gear shift can only be shifted when the tractor is completely stopped.

**IMPORTANT :**

**Do not force the range gear shift lever.**

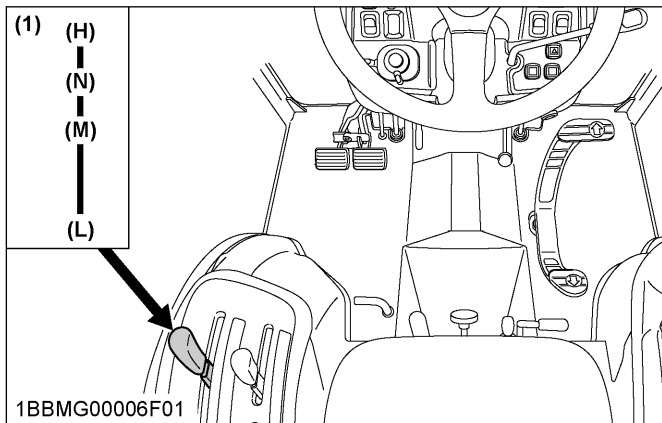
- If it is difficult to shift the range gear shift lever into the neutral position;
  1. Depress the brake pedal firmly for several seconds.
  2. Without reducing the brake pedal force, shift the range gear shift lever.
- If it is difficult to shift the range gear shift lever into "L", "M" or "H" from neutral position;
  1. Slightly depress the speed control pedal to rotate the gears inside of transmission.
  2. Release the speed control pedal to neutral position.
  3. Shift the range gear shift lever.
- To avoid damage of transmission, stop tractor before shifting between ranges.

**ROPS model**



(1) Range gear shift lever  
 (H) "HIGH"  
 (M) "MIDDLE"  
 (L) "LOW"  
 (N) "NEUTRAL POSITION"

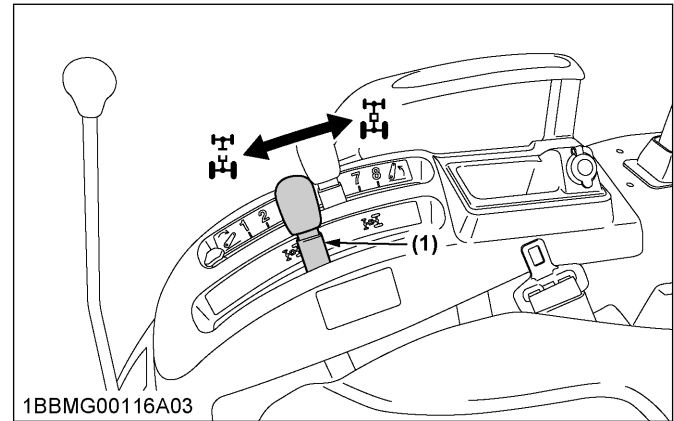
**CAB model**



(1) Range gear shift lever  
 (H) "HIGH"  
 (M) "MIDDLE"  
 (L) "LOW"  
 (N) "NEUTRAL POSITION"

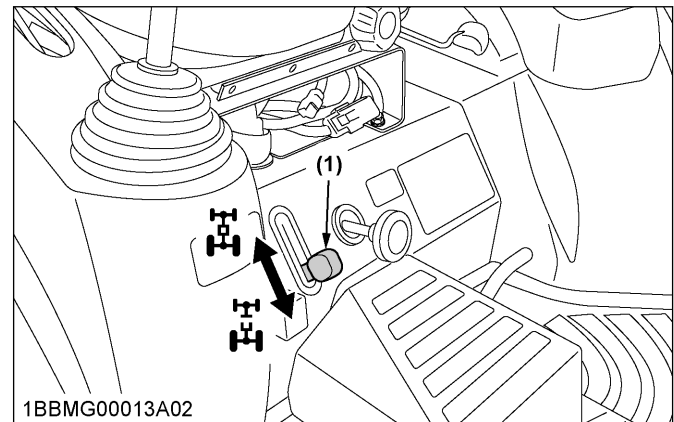
Use the lever to engage the front wheels with the tractor stopped. Shift the lever to "ON" to engage the front wheel drive.

**ROPS model**



(1) Front wheel drive lever  
 "ON"  
 "OFF"

**CAB model**



(1) Front wheel drive lever  
 "ON"  
 "OFF"

**10. Front wheel drive lever**

**WARNING**

To avoid personal injury or death:

- Do not engage the front-wheel drive when traveling at road speed.
- When driving on icy, wet, or loose surfaces, make sure the tractor is correctly ballasted to avoid skidding and loss of steering control. Operate at reduced speed and engage front-wheel drive.
- An accident may occur if the tractor is suddenly braked, such as by heavy towed loads shifting forward or loss of control.
- The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.

**IMPORTANT :**

- To avoid damage of transmission, when front wheel drive lever is not smoothly shifted, slightly step forward or rearward on speed control pedal.
- Tires will wear quickly if front wheel drive is engaged on paved roads.

**10.1 Front-wheel drive (4WD) usage**

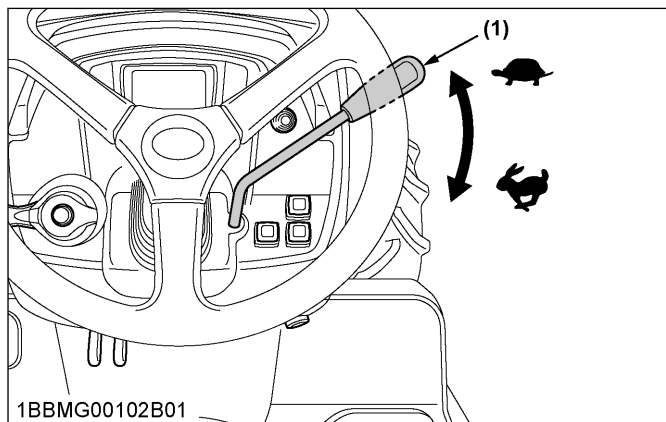
Front-wheel drive is effective for the following jobs:

1. When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a front-end loader.
2. When working in sandy soil.
3. When working on a hard soil where a rotary tiller might push the tractor forward.
4. Additional braking at reduced speeds.

## 11. Hand throttle lever

Pulling the throttle lever back decreases engine speed, and pushing it forward increases engine speed.

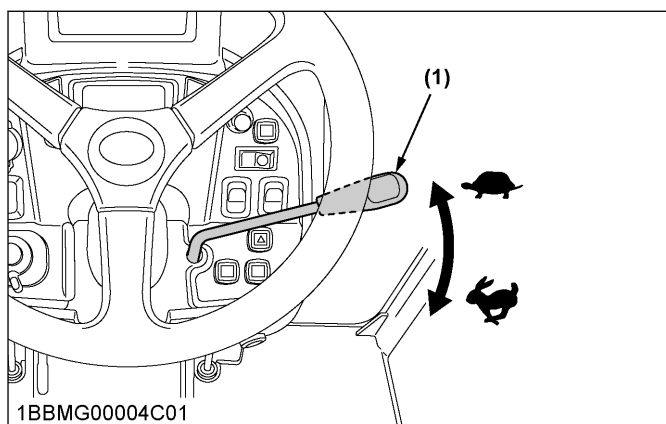
### ROPS model



(1) Hand throttle lever

- "INCREASE"
- "DECREASE"

### CAB model



(1) Hand throttle lever

- "INCREASE"
- "DECREASE"

## 12. Speed control pedal

### WARNING

To avoid personal injury or death:

- Do not operate if the tractor moves on level ground with the operators foot off of the speed control pedal.
- Consult your local KUBOTA Dealer.

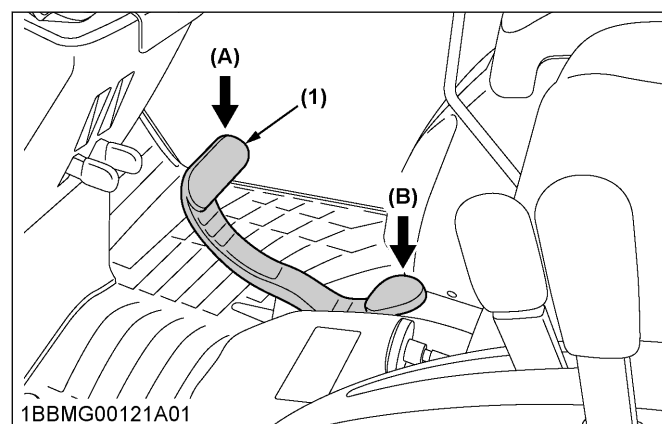
#### Forward pedal

Depress the speed control pedal with the toe of your right foot to move forward.

#### Reverse pedal

Depress the speed control pedal with the heel or toe of your right foot to move backward.

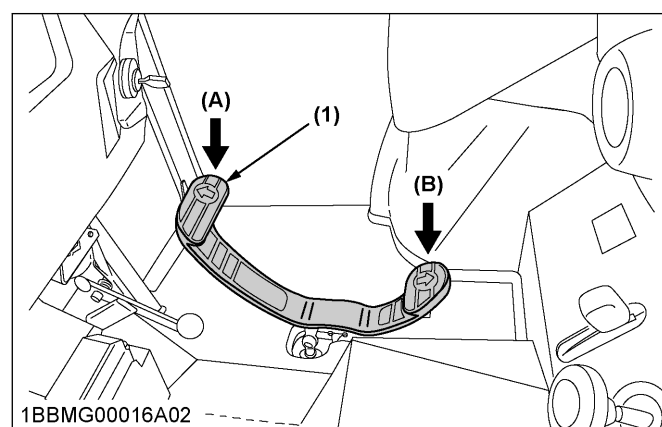
### ROPS model



(1) Speed control Pedal

- (A) "FORWARD"
- (B) "REVERSE"

### CAB model



(1) Speed control Pedal

- (A) "FORWARD"
- (B) "REVERSE"

### IMPORTANT :

- To prevent serious damage to the HST, do not adjust the stopper bolts.

### NOTE :

When you stand up from the seat with either:

- the speed control pedal stepped on
  - the speed set lever engaged (ON) [LX2610/LX3310 ROPS only]
  - the cruise control lever engaged (ON) [LX2610/LX3310 CAB only]
- the engine will stop regardless of whether the tractor is moving or not.

This is because the tractor is equipped with an operator presence control system (OPC).

## 13. Speed set lever [LX2610/LX3310 ROPS model]

### WARNING

To avoid personal injury or death:

- Pull the speed set lever completely to the up position before starting the engine.
- Do not use the speed set lever when driving on the road.
- Be sure to connect both the left and the right brakes to release the speed set lever. The speed set lever won't be released with single brake activation.

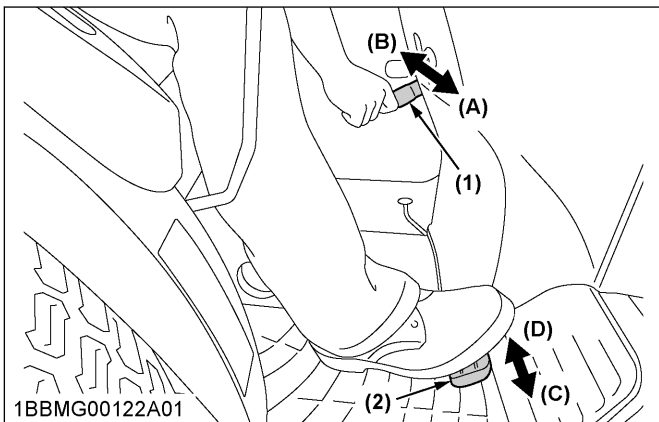
The speed set lever is designed for tractor operating efficiency and operator comfort. This device will provide a constant forward operating speed by mechanically holding the speed control pedal at a selected position.

#### To engage speed set lever

1. Accelerate speed to desired level using speed control pedal, and push the speed set lever down to the "ON" position.
2. Release speed control pedal and desired speed will be maintained.

#### To disengage speed set lever

- Depress both brake pedals.



(1) Speed set lever

(2) Speed control Pedal

(A) "ON"

(B) "OFF"

(C) "Increase"

(D) "Decrease"

#### NOTE :

- If you step on the pedal on the forward acceleration side, the speed set device will disengage.
- The speed set lever does not disengage when the individual right or left brake is applied.
- Speed set lever will not operate in reverse.
- When you stand up from the seat with the speed control pedal stepped on or the speed set lever engaged (ON), the engine will stop regardless of whether the machine is moving or not. This is because the tractor is equipped with Operator Presence Control system (OPC).

#### IMPORTANT :

- To prevent the damage of speed set lever, do not depress the reverse pedal when the speed set lever is engaged.

## 14. Cruise control lever [LX2610/LX3310 CAB model]

### WARNING

To avoid personal injury or death:

- Pull the cruise control lever completely to the rear before starting the engine.
- Do not use the cruise control when driving on the road.
- Be sure to connect both the left and the right brakes to release the cruise control. The speed-cruise-control will not be released with single brake activation.

#### IMPORTANT :

- Do not depress the speed control pedal backward to disengage the cruise control.

Cruise control is designed for tractor operating efficiency and operator comfort.

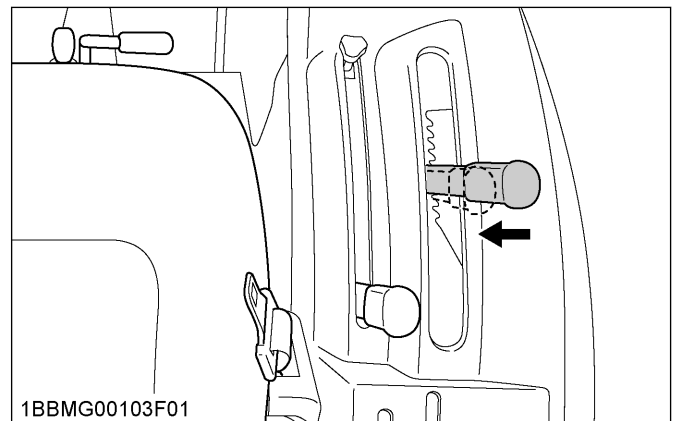
This device will provide a constant forward operating speed by mechanically holding the cruise control lever at the selected position.

#### To engage cruise control device

1. The proper forward speed will be maintained if you apply the cruise control lever at any position.
2. To operate faster than the set speed, depress the speed control pedal further down in this condition. The set speed will be resumed if you release the pedal.

#### To disengage cruise control device

- Tilt the lever toward the seat, move the lever all the way back and then to the "NEUTRAL" position to release the cruise control.
- Depress both brake pedals.

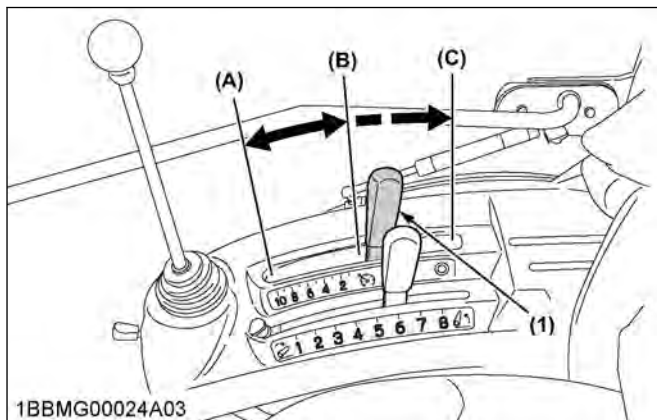


1BBMG00103F01

#### NOTE :

- The cruise control device does not disengage when the individual right or left brake is applied.
- Cruise control device will not operate in reverse.

- Preferably set the cruise control lever, while holding down the speed control pedal. This makes the setting smoother.
- When releasing the cruise mode, be sure to return the cruise control lever fully backward.



(1) Cruise control lever

- (A) "INCREASE"  
 (B) "DECREASE"  
 (C) "NEUTRAL"

**NOTE :**

- When you stand up from the seat with the speed control pedal depressed or the cruise control lever engaged ("ON"), the engine will stop regardless of whether the machine is moving or not. This is because the tractor is equipped with operator presence control (OPC) system.

**STOPPING THE TRACTOR**

1. Slow down the engine.
2. Step on the brake pedal.
3. Wait for the tractor to stop.
4. Disengage the PTO.
5. Lower the implement to the ground.
6. Shift the transmission to neutral.
7. Set the parking brake.

**CHECK DURING DRIVING****IMPORTANT :**

Immediately stop the engine if:

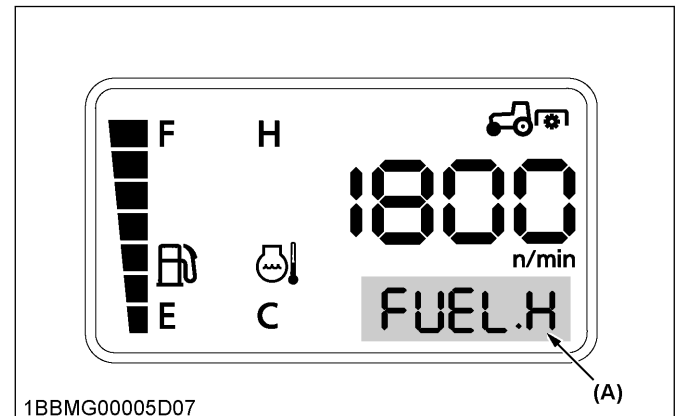
- The engine suddenly slows down or accelerates.
- Unusual noises are suddenly heard.
- Exhaust fumes suddenly become very dark.

**1. Fuel temperature indication**

Fuel temperature indication informs the operator of high fuel temperature by showing a message on the display.

If "FUEL.H" appears on display, immediately stop operation and idle the engine.

When the engine rpm decreases, the message on the display will disappear.



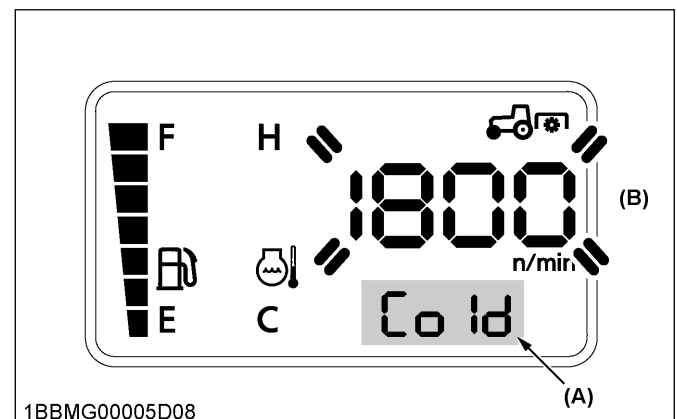
1BBMG00005D07

(A) "FUEL.H"

**2. Engine low temperature regulation**

In order to prevent engine damage due to rapid acceleration, if starting the engine when the coolant temperature is approximately 0 °C (32 °F) or below, the engine rpm will be kept at approximately 1800 for up to 1 minutes. The operator will be informed by "Cold" on display, flash of engine revolution speed, and intermittent buzzer. The regulation time varies in response to the coolant temperature.

During regulation, perform the warm-up operation without using the accelerator. After regulation, the engine rpm can be gradually increased. When regulation has been completely released, the indicator will go off, and the buzzer will stop.



1BBMG00005D08

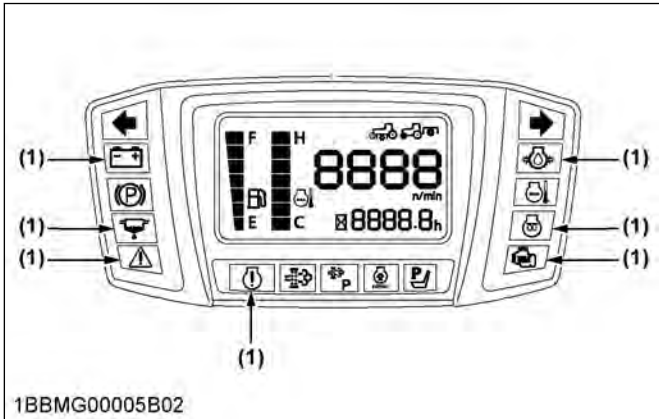
(A) "Cold"

(B) Flash

**3. Easy Checker™**

If the indicators on the Easy Checker™ come on during operation, immediately stop the engine and find the cause as follows.

Never operate the tractor while an Easy Checker™ indicator is on.



(1) Easy Checker™

**⚠ Engine warning [LX3310 only]**

If the regeneration of the DPF has a problem, the warning lamp in the Easy Checker™ will come on. (See PM warning level and required procedures on page 46.)

**🌡 Engine overheat**

If the water temperature gauge reads an unusual level and the indicator on the Easy Checker™ comes on, the engine may have overheated. Check the tractor by reading the troubleshooting section of this manual. (See TROUBLESHOOTING on page 143.)

**🛢 Engine oil pressure**

If the oil pressure in the engine drops below the prescribed level, the indicator on the Easy Checker™ will come on. If this should happen during operation, and it does not go off when the engine is accelerated to more than 1000 rpm, check the engine oil level. (See Checking engine oil level on page 112.)

**🚰 Water separator [LX3310 only]**

If water or impurities collect in the water separator, the indicator on the Easy Checker™ will light up. If this should happen during operation, drain the water from the water separator as soon as possible. (See Checking water separator [LX3310] on page 112.)

**🌫 Emission indicator [LX3310 only]**

If this indicator lights up, take steps to lower the water temperature. This helps keep the emission clean.

**🔋 Electrical charge**

If the alternator is not charging the battery, the indicator on the Easy Checker™ will come on.

If this should happen during operation, check the electrical charging system or consult your local KUBOTA Dealer.

**⚠ Master system warning**

If the trouble is not corrected by restarting the tractor, consult your local KUBOTA Dealer.

**NOTE :**

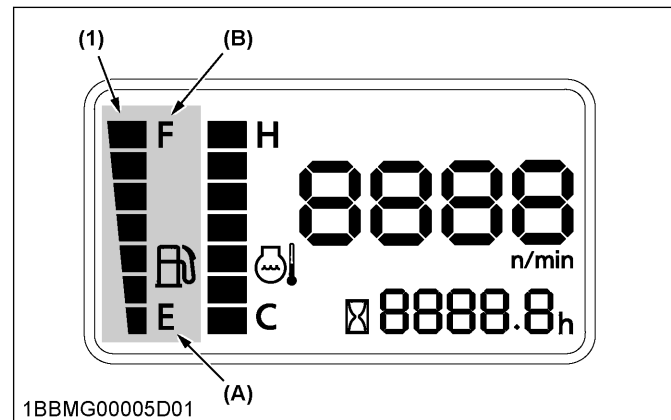
- For checking and servicing of your tractor, consult your local KUBOTA Dealer for instructions.

**4. Fuel gauge**

When the key switch is on, the fuel gauge indicates the fuel level.

Be careful not to empty the fuel tank. Otherwise air may enter the fuel system.

Should this happen, the system should be bled. (See Bleeding fuel system on page 136.)



(1) Fuel gauge

(A) "EMPTY"  
(B) "FULL"

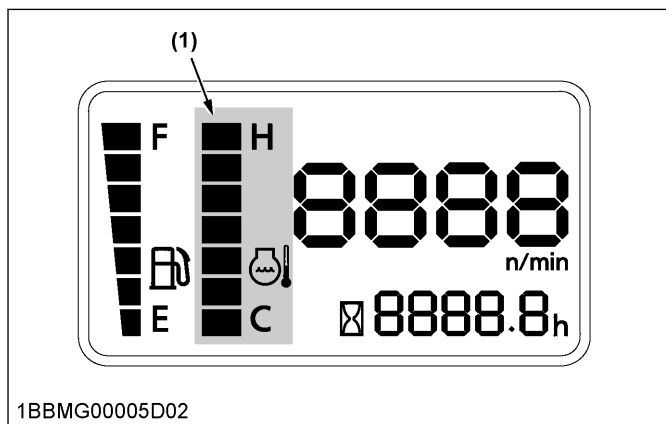
**5. Coolant temperature gauge**

**⚠ WARNING**

To avoid personal injury or death:

- Do not remove the radiator cap until coolant temperature is well below its boiling point. Then, loosen the cap slightly to the first stop to relieve any pressure before removing the cap completely.

1. With the key switch at "ON", this gauge indicates the temperature of the coolant. [C] is for cold and [H] is for hot.
2. If the indicator reaches the [H] position (red zone), the engine coolant is overheated. Check the tractor by reading the troubleshooting section of this manual. (See TROUBLESHOOTING on page 143.)

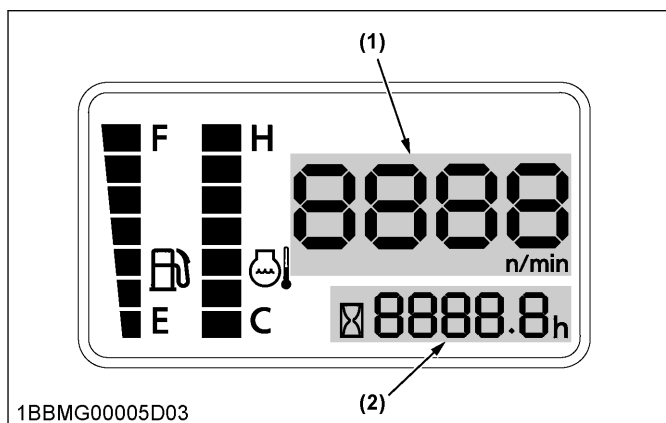


(1) Coolant temperature gauge

### 6. Hourmeter and tachometer

This meter gives readings for engine speed, PTO shaft speed and the hours the tractor has been operated.

- The tachometer indicates the engine speed and the PTO shaft speed location on the dial.
- The hourmeter indicates in 5 digits the hours the tractor has been used; the last digit indicates 1/10 of an hour.



(1) Engine revolution  
(2) Hours used

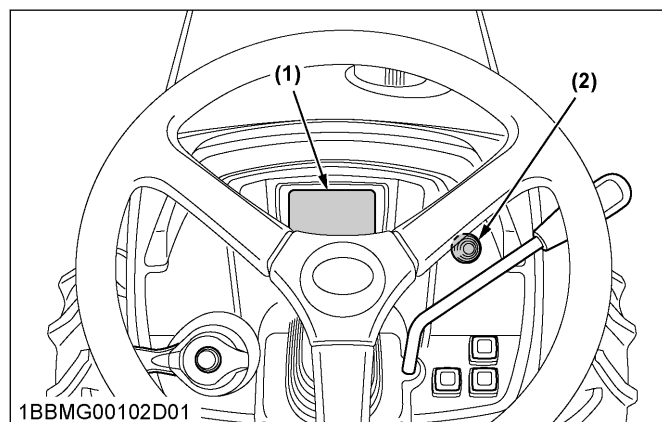
### 7. Changing display mode

1. The LCD monitor give several different displays.
2. The LCD monitor displays "Engine rpm" normally.
3. The display switch is pressed, the display is switched to "Rear PTO speed", "Mid PTO speed", "Engine rpm".

**NOTE :**

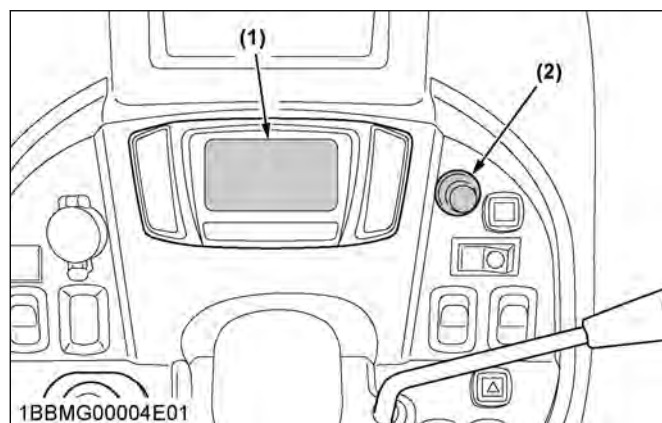
- Models that are not equipped with the "Mid PTO" also display "Mid PTO speed".

### ROPS model



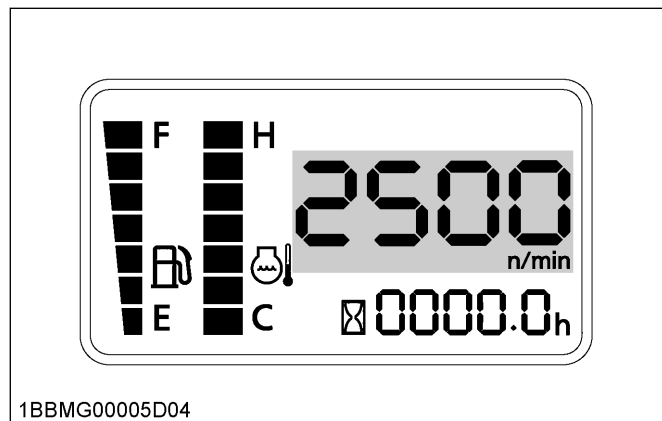
(1) LCD monitor  
(2) Display switch

### CAB model

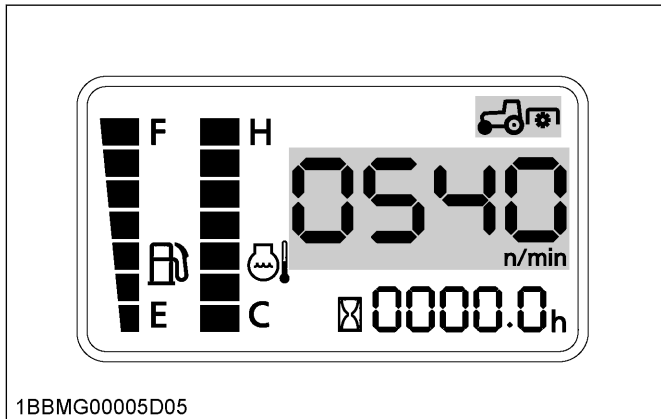


(1) LCD monitor  
(2) Display switch

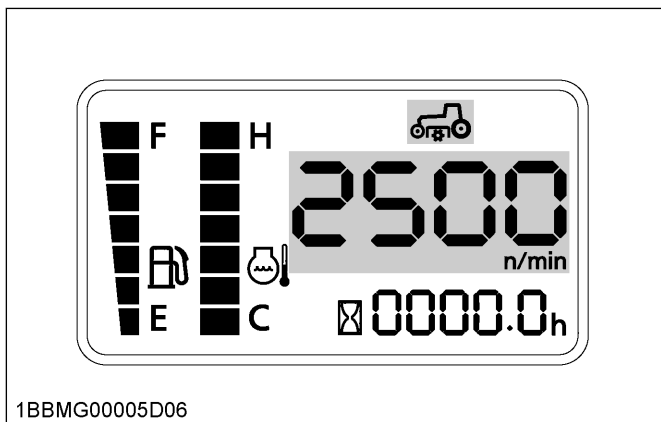
### Engine rpm



Rear PTO speed



Mid PTO speed



PARKING THE TRACTOR

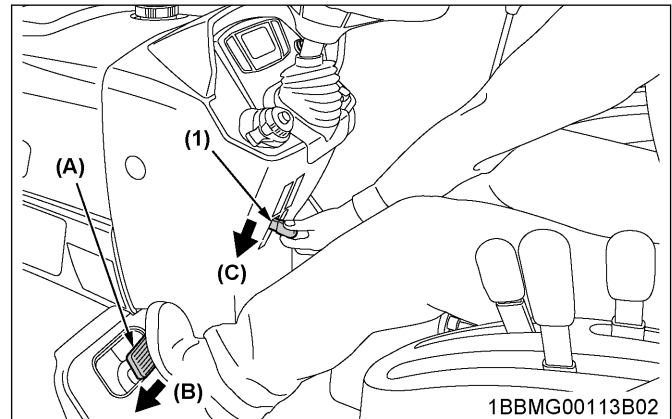
**WARNING**

To avoid personal injury or death:

- Always set the parking brake, stop the engine and remove the key before leaving the tractor seat.

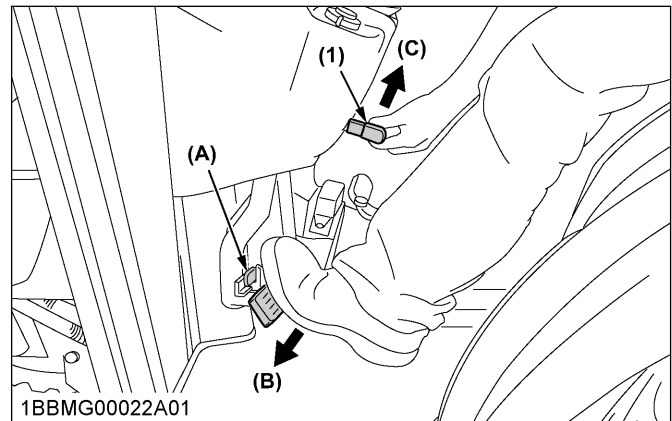
1. When parking, be sure to set the parking brake. To set the parking brake;
  - a. Interlock the brake pedals.
  - b. Depress the brake pedals.
  - c. Latch the brake pedals with the parking brake lever.

ROPS model



- (1) Parking brake lever
- (A) Interlock the brake pedals  
 (B) "DEPRESS"  
 (C) "PULL DOWN"

CAB model



- (1) Parking brake lever
- (A) Interlock the brake pedals  
 (B) "DEPRESS"  
 (C) "PULL UP"

2. Before getting off the tractor, disengage the PTO, lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine and remove the key.
3. If it is necessary to park on an incline, be sure to chock the wheels to prevent accidental rolling of the machine.

OPERATING TECHNIQUES

1. Differential lock

**WARNING**

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

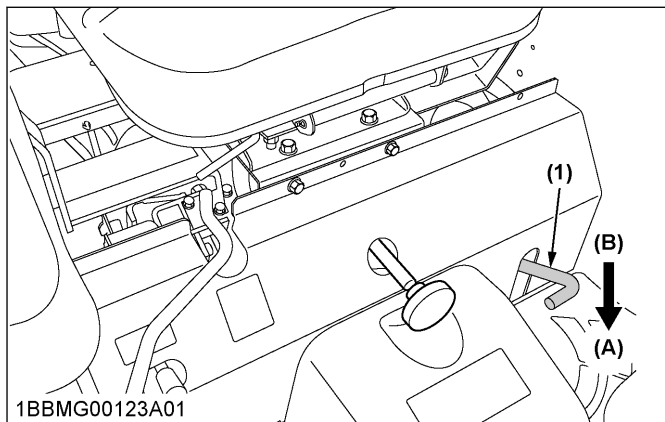
- Do not operate the tractor at high speed with differential lock engaged.
- Do not attempt to turn with the differential lock engaged.
- Be sure to release the differential lock before making a turn in field conditions.



If one of the rear wheels should slip, step on the differential lock pedal. Both wheels will turn together, then reduce slippage.

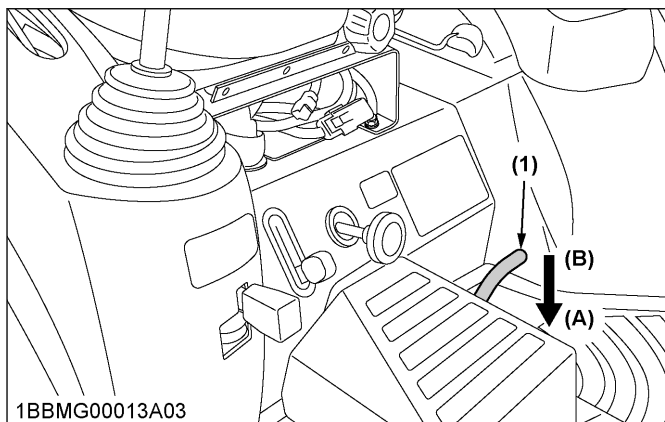
Differential lock is maintained only while the pedal is depressed.

**ROPS model**



(1) Differential lock pedal (A) "Press to engage"  
(B) "Release to disengage"

**CAB model**



(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 the powertrain, do not engage the 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.

**2. 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 the road with a 3-point hitch mounted implement attached, be sure to have sufficient front weight on the tractor to maintain steering ability.

(See Front ballast on page 93, Rear ballast on page 93.)

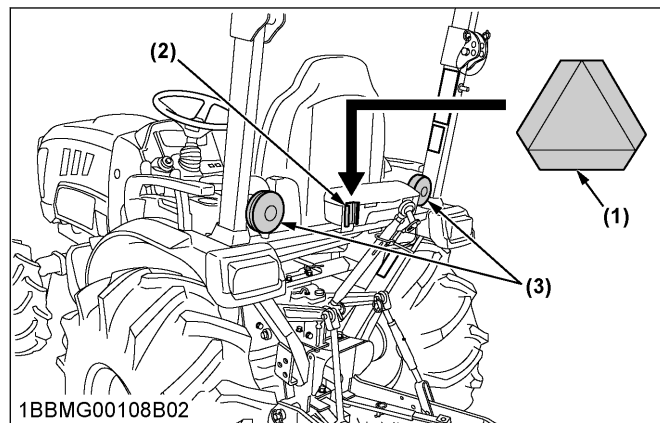
- Towed equipment (without brake) must not exceed 1.5 times the tractor weight when traveling on roads or at high speeds.

Be sure the SMV emblem and hazard lights are clean and visible. If towed or rear-mounted equipment obstructs these safety devices, install the SMV emblem and hazard lights on the equipment.

If towed or rear-mounted agricultural equipment obstructs these safety devices, do not travel on public road.

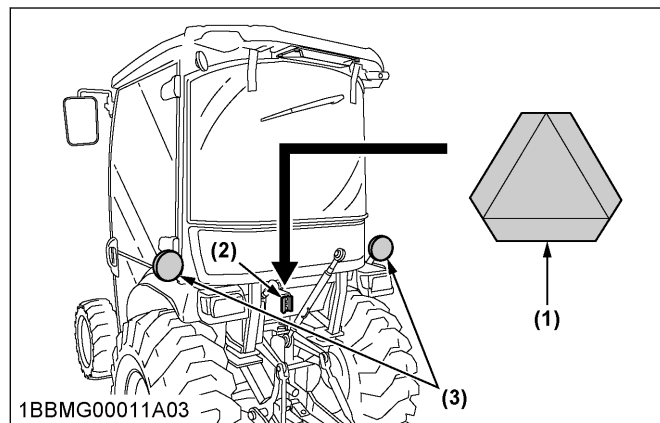
Consult your local KUBOTA Dealer for further details.

**ROPS model**



(1) SMV emblem  
(2) Bracket  
(3) Hazard light

**CAB model**



(1) SMV emblem  
(2) Bracket  
(3) Hazard light

### 3. Operating on slopes and rough terrain

#### WARNING

To avoid personal injury or death:

- Always back up when going up a steep slope. Driving forward could cause the tractor to tip over backward. Stay off hills and slopes too steep for safe operation.
- Avoid changing gears when climbing or descending a slope.
- If operating on a slope, never disengage the shift levers to neutral. Doing so could cause loss of control.
- Do not drive the tractor close to the edges of ditches or banks which may collapse under the weight of the tractor, especially when the ground is loose or wet.

1. Slow down for slopes, rough ground, and sharp turns, especially when transporting heavy, rear mounted equipment.
2. Before descending a slope, shift to a gear low enough to control the speed without using brakes.

### 4. Transporting the tractor safely

1. The tractor, if damaged, must be carried on a truck. Secure the tractor tightly with ropes.
2. Follow the instructions below when towing the tractor. Otherwise, the tractor's powertrain may be damaged.
  - Set all the shift levers to "NEUTRAL" position.
  - If possible, start the engine and select 2WD; if creep speed is fitted ensure that it is disengaged.
  - Tow the tractor using its front hitch or drawbar.
  - Never tow faster than 10 km/h (6.2 mph).

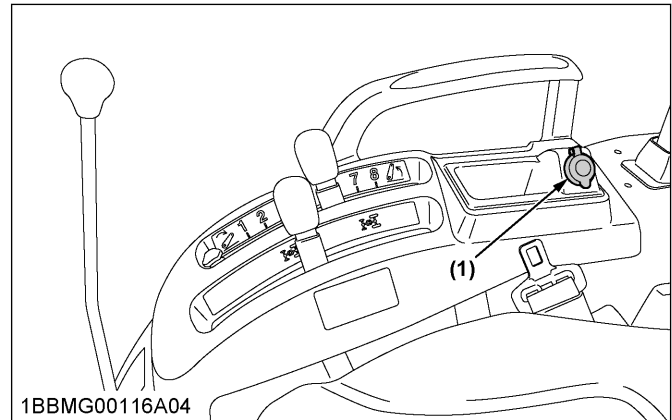
### 5. Directions for the use of power steering

- Power steering is activated only while the engine is running. While the engine is stopped, tractors with power steering function in the same manner as tractors without power steering.
- When the steering wheel is turned all the way to the stop, the relief valve is activated. Do not hold the steering wheel in this position for a long period of time.
- Avoid turning the steering wheel while the tractor is stopped, or tires may wear out sooner.
- The power steering mechanism makes the steering easier. Be careful when driving on the road at high speeds.

### 6. Electrical outlet

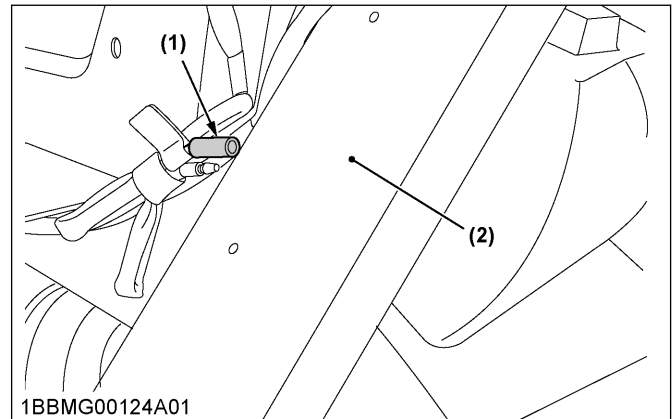
An electrical outlet is supplied for use with implement and electrical equipment.

#### ROPS model



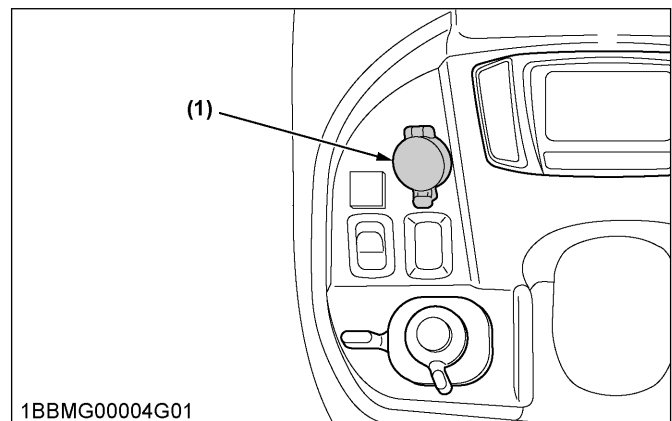
(1) Accessory electrical outlet (DC 12 V, MAX 120 W)

#### ROPS model



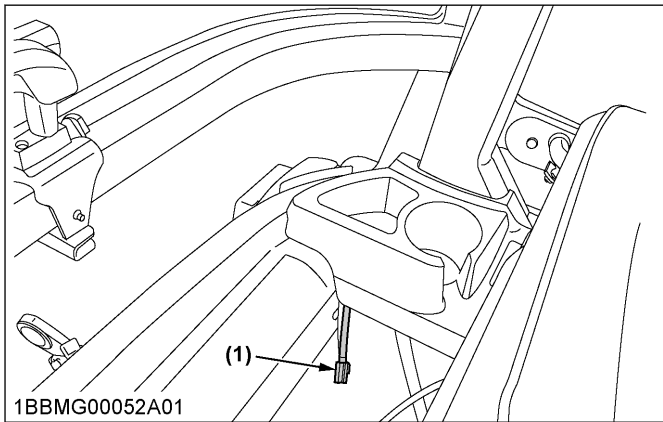
(1) Accessory electrical outlet (DC 12 V, MAX 120 W)  
(2) ROPS (Right side)

#### CAB model



(1) Accessory electrical outlet (DC 12 V, MAX 120 W)

**CAB model**



(1) Accessory electrical outlet (DC 12 V, MAX 120 W)

# PTO

## PTO OPERATION

### **WARNING**

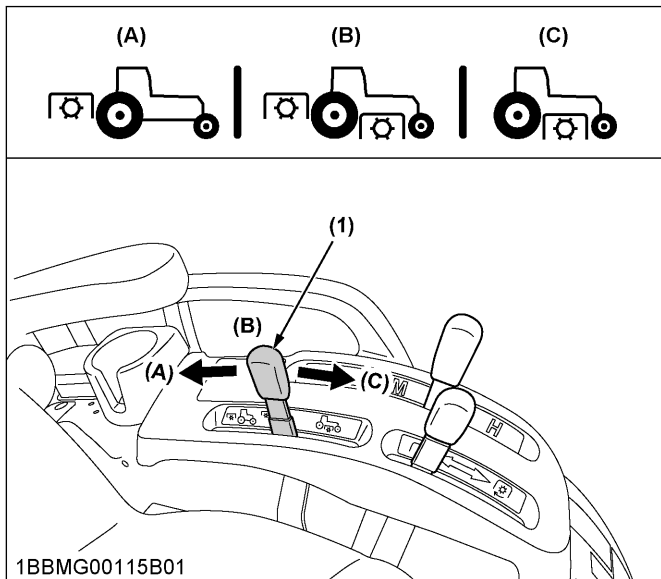
To avoid personal injury or death:

- Before operation, be sure to select the correct PTO lever (mid, mid/rear, rear).
- Disengage the PTO, stop the engine, and allow all rotating components to come to a complete stop before connecting, disconnecting, adjusting, or cleaning any PTO driven equipment.

### 1. PTO select lever [except LX2610SU]

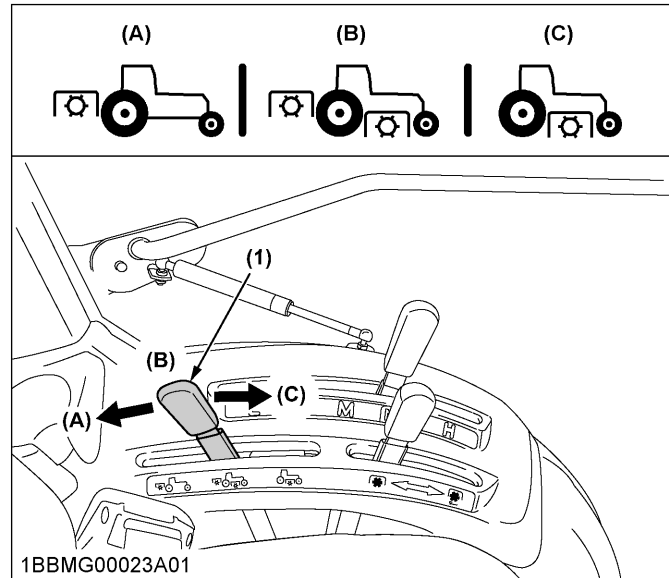
The tractor has a 540 rpm rear PTO speed and a 2500 rpm mid-PTO speed.

#### ROPS model



(1) PTO select lever  
 (A) Rear-PTO position  
 (B) Mid-rear-PTO position  
 (C) Mid-PTO position

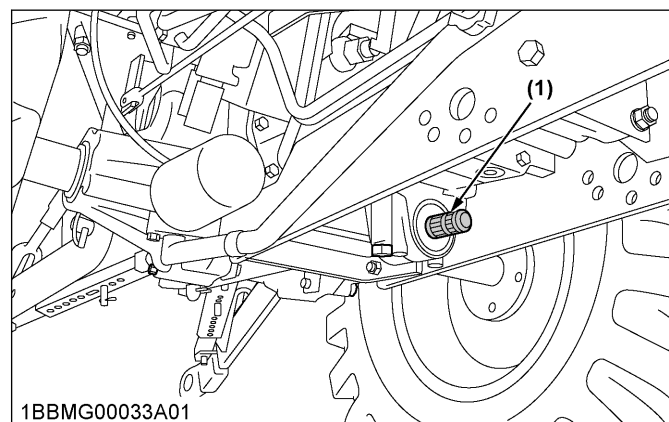
#### CAB model



(1) PTO select lever  
 (A) Rear-PTO position  
 (B) Mid-rear-PTO position  
 (C) Mid-PTO position

#### Mid PTO

To use mid PTO, shift the PTO select lever to mid PTO position and the PTO clutch lever to the "ON" position. The mid PTO is available for KUBOTA approved implements.



(1) Mid PTO

#### Mid rear PTO

To use mid and rear PTO at the same time, shift the PTO select lever to mid rear PTO position and the PTO clutch lever to the "ON" position.

#### Rear PTO

To use rear PTO, shift the PTO select lever to rear PTO position and the PTO clutch lever to the "ON" position.

**Mid PTO speed**

|              | LX2610/LX3310 |
|--------------|---------------|
| Engine speed | 2500 rpm      |
| PTO speed    | 2500 rpm      |

**Rear PTO speed**

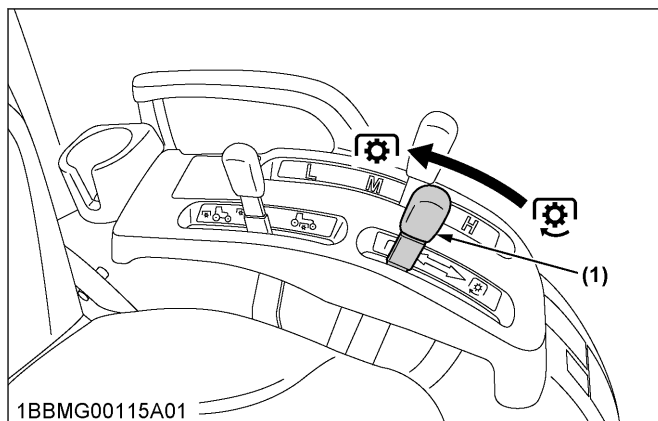
|              | LX2610/LX3310 |
|--------------|---------------|
| Engine speed | 2398 rpm      |
| Shaft        | 6-spline      |
| PTO speed    | 540 rpm       |

**2. PTO clutch lever [LX2610/LX3310]**

**IMPORTANT :**

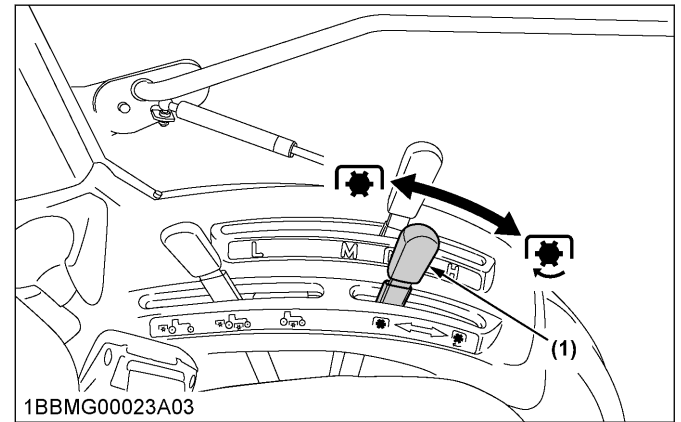
- To avoid shock loads to the PTO, reduce engine throttle from high idle to low idle by pushing up on engine throttle when engaging the PTO, then open the throttle to the recommended engine rpm.
  - To avoid damage to PTO clutch and implement, shift the PTO clutch lever slowly, when engaging the PTO clutch. Do not keep the PTO clutch lever half way.
  - To avoid damage of transmission, when PTO select lever is not smoothly shifted, slightly shift PTO clutch lever.
  - To avoid damage of transmission, do not shift PTO select lever until the PTO has stopped completely.
1. The PTO clutch lever engages or disengages the PTO clutch which gives the PTO independent control.
  2. Shift the lever to "ON" to engage the PTO clutch. Shift the lever to "OFF" to disengage the PTO clutch.

**ROPS model**



(1) PTO clutch lever  
 [Gear with +] "ON" "ENGAGE"  
 [Gear with -] "OFF" "DISENGAGE"

**CAB model**



(1) PTO clutch lever  
 [Gear with +] "ON" "ENGAGE"  
 [Gear with -] "OFF" "DISENGAGE"

**NOTE :**

- Tractor engine will not start if the PTO clutch lever is in the engaged "ON" position.
- When you stand up from the seat with the PTO clutch lever in the "ON" position, the engine will stop regardless of the position of the PTO select lever. This is because the tractor is equipped with operator presence control (OPC) system.

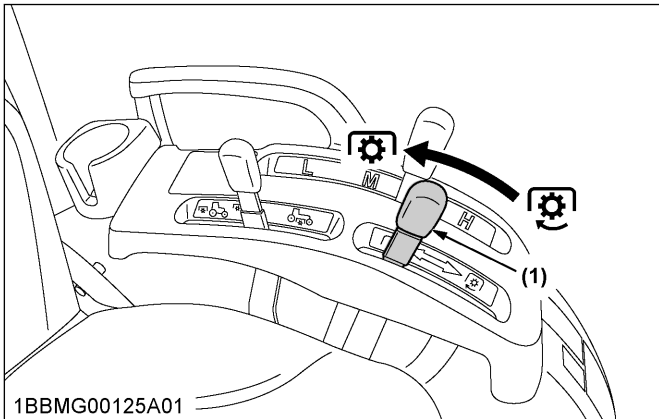
**3. PTO clutch lever [LX2610SU]**

**IMPORTANT :**

- To avoid shock loads to the PTO, reduce engine throttle from high idle to low idle by pushing up on engine throttle when engaging the PTO, then reengage the engine to high idle.
- To avoid damage to PTO clutch and implement, shift the PTO clutch lever slowly, when engaging the PTO clutch. Do not keep the PTO clutch lever half way.

1. The tractor has a 540 rpm speed position.

- Shift the lever to "ON" to engage the PTO clutch. Shift the lever to "OFF" to disengage the PTO clutch.



(1) PTO clutch lever  
 "ON" "ENGAGE"  
 "OFF" "DISENGAGE"

|              | LX2610SU |
|--------------|----------|
| Engine speed | 2398 rpm |
| Shaft        | 6-spline |
| PTO speed    | 540 rpm  |

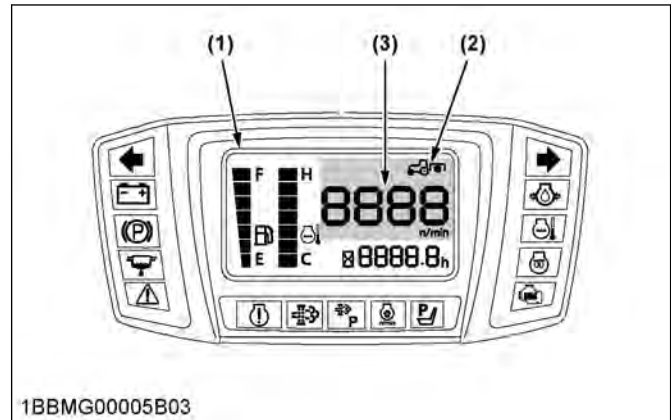
**NOTE :**

- Tractor engine will not start if the PTO clutch lever is in the engaged "ON" position.
- When you stand up from the seat with the PTO clutch lever in the "ON" position, the engine will stop regardless of the position of the PTO select lever.  
 This is because the tractor is equipped with operator presence control (OPC) system.

**4. LCD monitor message**

- The PTO rpm can be checked in the LCD monitor. (See Changing display mode on page 69.)

**Display switch "ON"**



(1) LCD monitor  
 (2) PTO indicator  
 (3) PTO speed

**NOTE :**

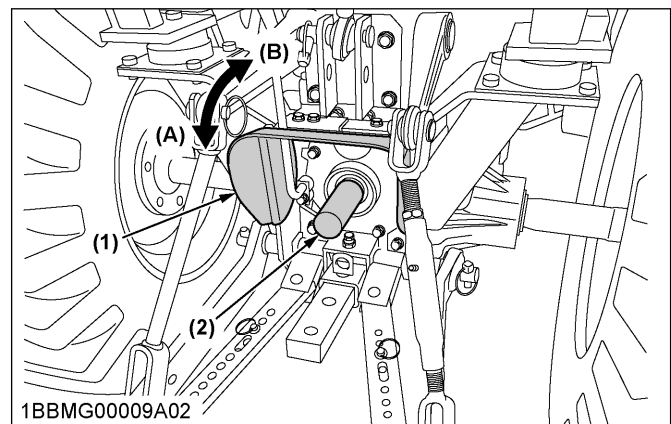
- With the PTO in the "ON" position, a numeric value is displayed on the LCD monitor even if the PTO shaft is not turning.

**5. PTO shaft cover and shaft cap**

**! WARNING**

To avoid personal injury or death:

- Keep the PTO shaft cover in place at all times. Put back the PTO shaft cap when the PTO is not in use.
- Before connecting or disconnecting a drive shaft to the PTO shaft, be sure the engine is off. Also, if a raisable PTO shaft cover is equipped, raise the cover up to the raised position. Afterward be sure to return the PTO shaft cover to the normal position.



(1) PTO shaft cover  
 (2) PTO shaft cap  
 (A) "NORMAL POSITION"  
 (B) "RAISED POSITION"

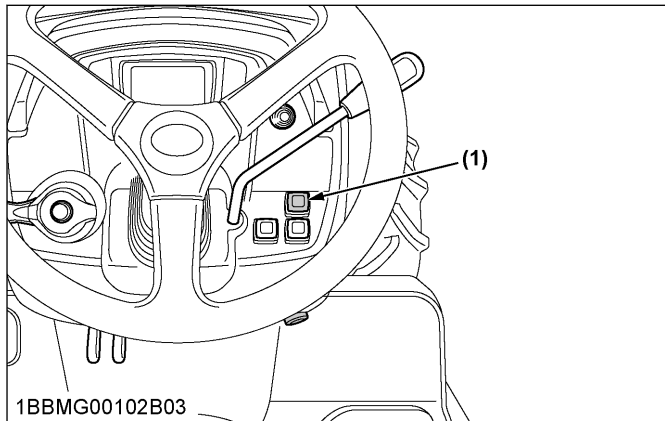
**IMPORTANT :**

- The universal joint of the PTO drive shaft is technically limited in its moving angle. Refer to the PTO drive shaft instructions for proper use.

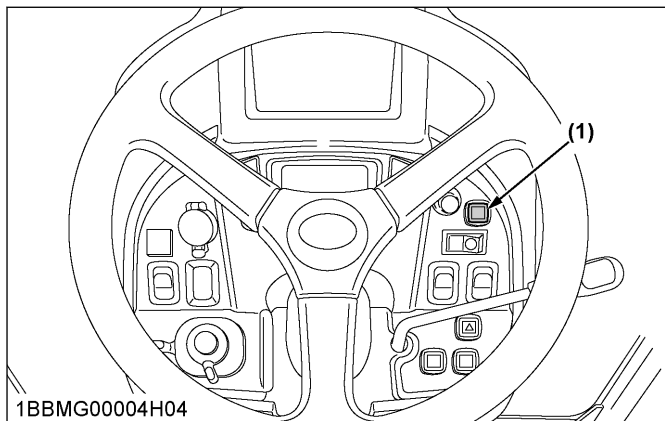
**6. Stationary PTO**

To park the tractor and use the PTO system (for chipper or pump, for example), start the PTO system in the following steps.

1. Apply the parking brake and place blocks at the tires.
2. Make sure the shift levers are at neutral, and start the engine.
3. Set the PTO select lever to "rear PTO" position. [except LX2610SU]
4. Push and hold the stationary PTO switch for more than 1 second and the switch light will turn on.

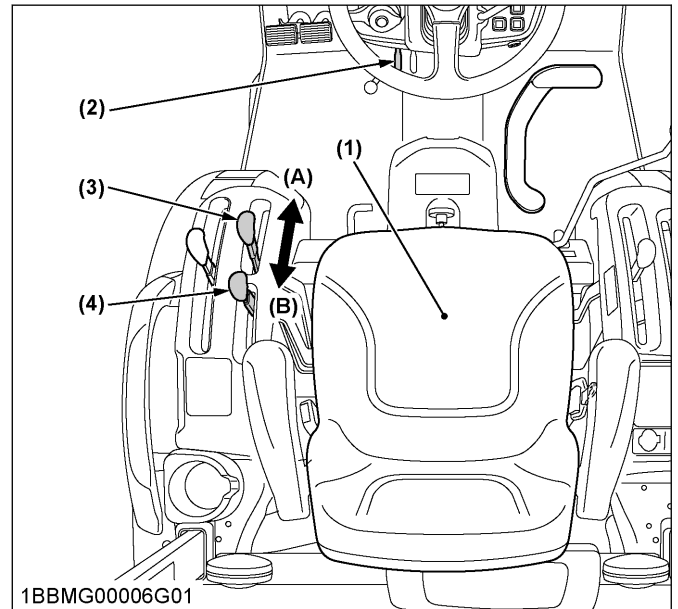
**ROPS model**

(1) Stationary PTO switch

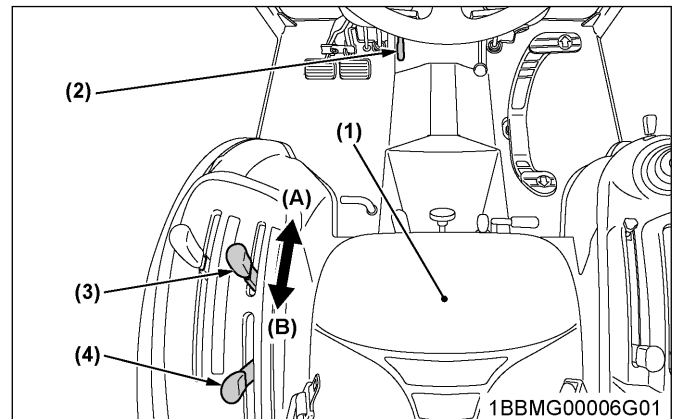
**CAB model**

(1) Stationary PTO switch

5. Set the PTO clutch lever to "ON" position.
6. Set the engine speed to provide recommended rear PTO speed.
7. Get off the tractor.

**ROPS model**

- |  |           |
|--|-----------|
| (1) Seat                               | (A) "ON"  |
| (2) Parking brake lever                | (B) "OFF" |
| (3) PTO clutch lever                   |           |
| (4) PTO select lever [except LX2610SU] |           |

**CAB model**

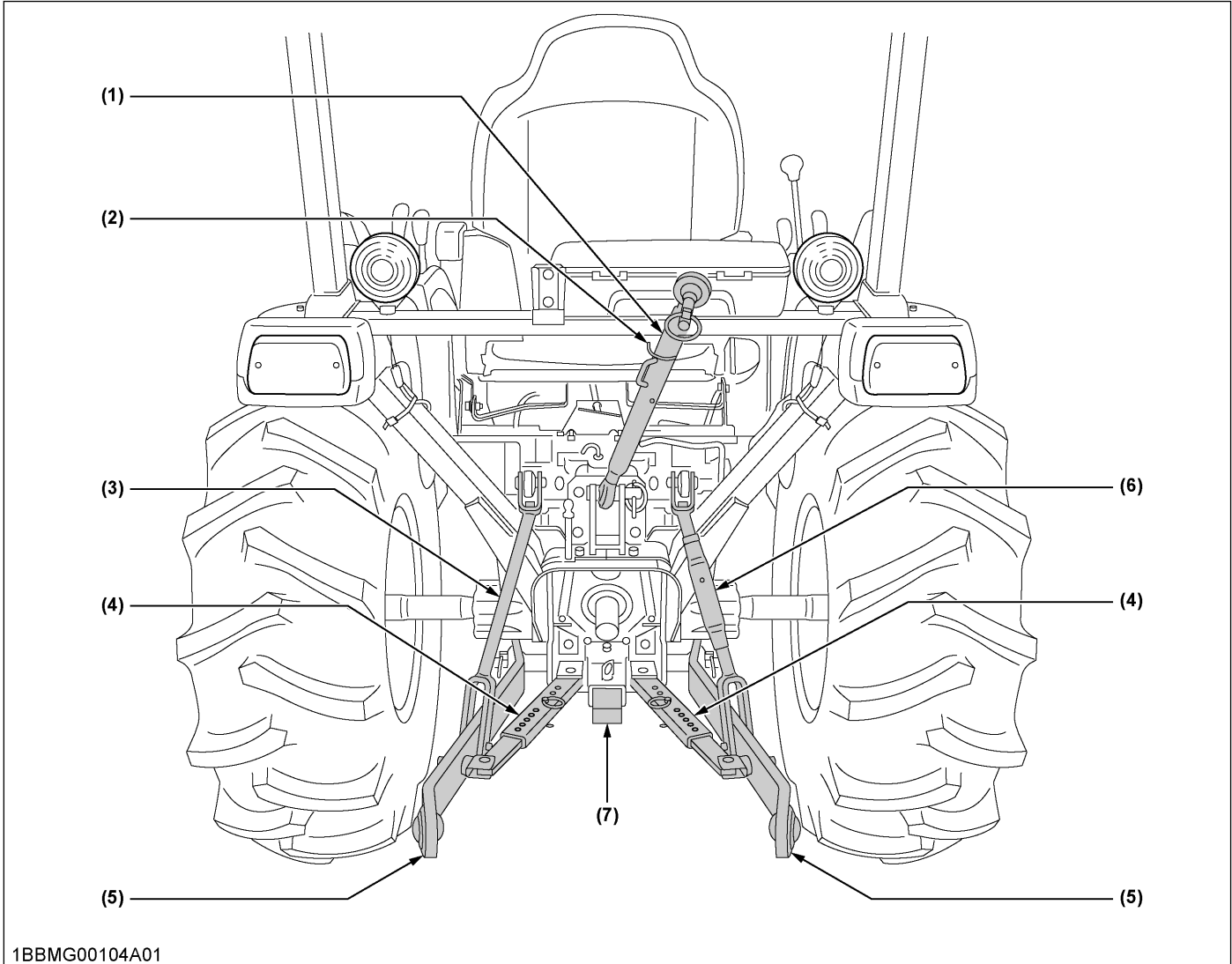
- |                         |           |
|-------------------------|-----------|
| (1) Seat                | (A) "ON"  |
| (2) Parking brake lever | (B) "OFF" |
| (3) PTO clutch lever    |           |
| (4) PTO select lever    |           |

**NOTE :**

- If the PTO system is engaged and you stand up from the seat and release the parking brake, the engine stops automatically.

# 3-POINT HITCH AND DRAWBAR

ROPS model



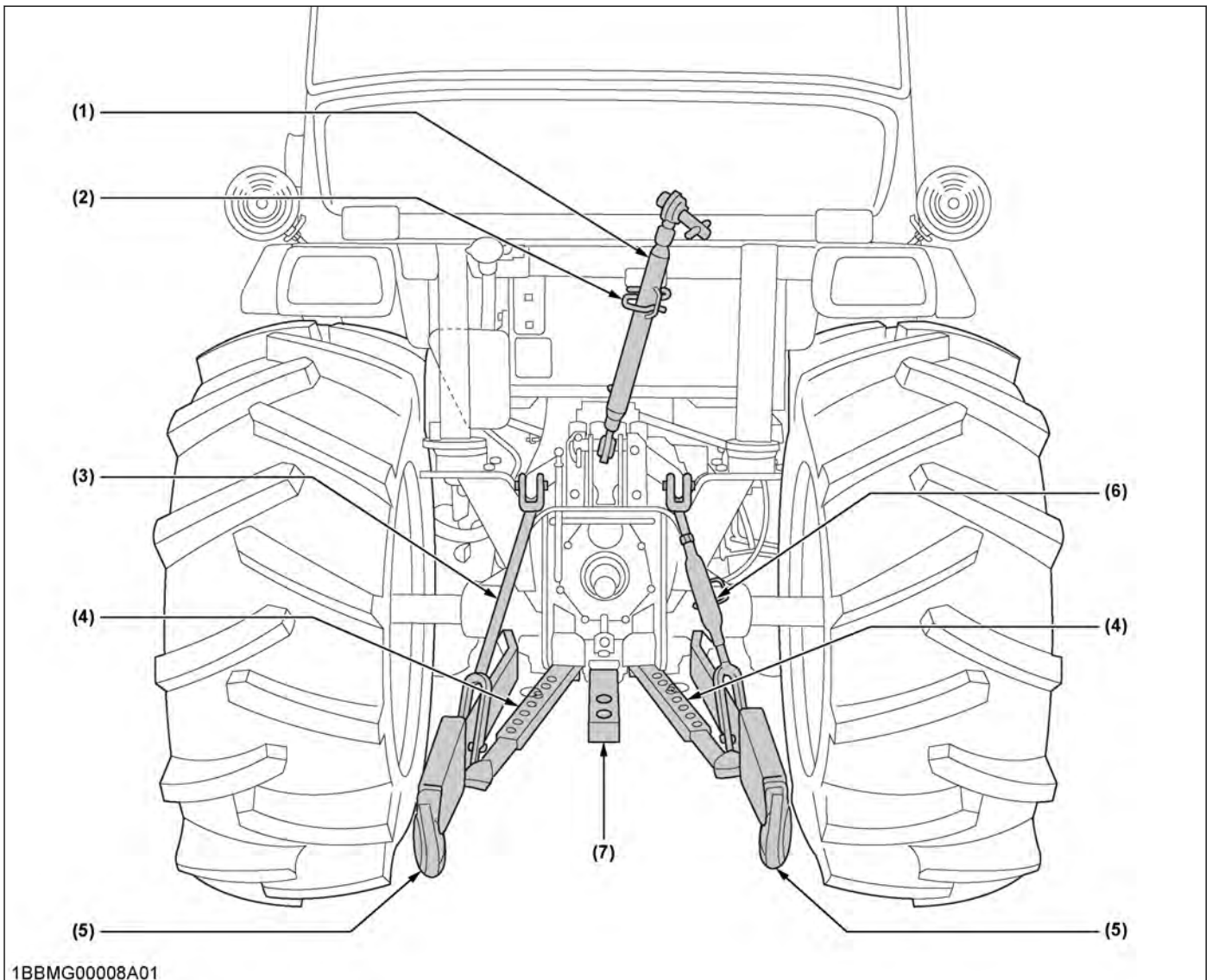
1BBMG00104A01

- (1) Top link
- (2) Top link holder
- (3) Lifting rod (left)
- (4) Telescopic stabilizers

- (5) Lower link
- (6) Lifting rod (right)
- (7) Drawbar



CAB model



1BBMG00008A01

- |                            |                         |
|----------------------------|-------------------------|
| (1) Top link               | (5) Lower link          |
| (2) Top link holder        | (6) Lifting rod (right) |
| (3) Lifting rod (left)     | (7) Drawbar             |
| (4) Telescopic stabilizers |                         |

# THE 3-POINT HITCH SETUP

1. Make preparations for attaching implement.
  - Selecting the holes of lower links on page 80
  - Selecting the top link mounting holes on page 80
  - Drawbar on page 81
2. Attaching and detaching implements

## WARNING

To avoid personal injury or death:

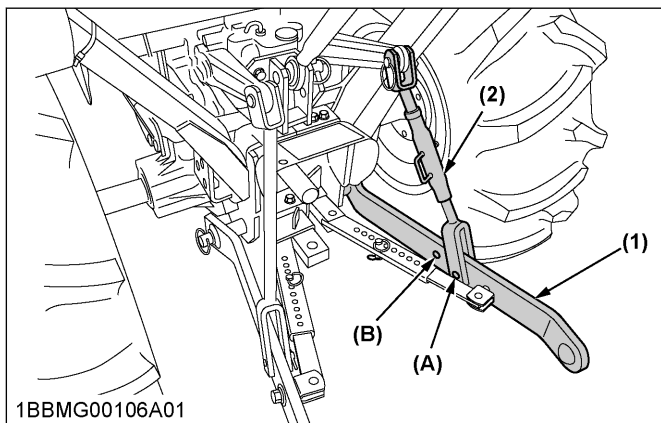
- Be sure to stop the engine and remove the key.
- Do not stand between the tractor and implement unless the parking brake is applied.
- Before attaching or detaching the implement, locate the tractor and implement on a firm level surface.
- Whenever an implement or other attachment is connected to the tractor 3-point hitch, check the full range of operation for interference, binding or PTO separation.

- Lifting rod (right) on page 81
- Top link on page 81
- Telescopic stabilizers on page 81
- Telescopic lower links [CAB model] on page 82

## 1. Selecting the holes of lower links

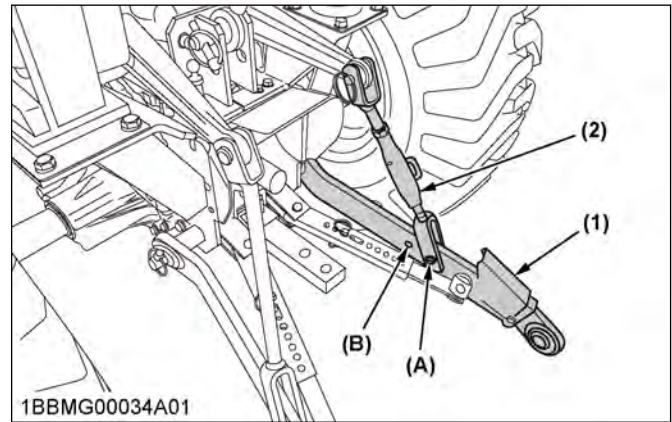
There are 2 holes in the lower links. For most operations, the lifting rods should be attached to the (A) hole.

### ROPS model



(1) Lower link (A) Hole  
(2) Lifting rod (B) Hole

### CAB model



(1) Lower link (A) Hole  
(2) Lifting rod (B) Hole

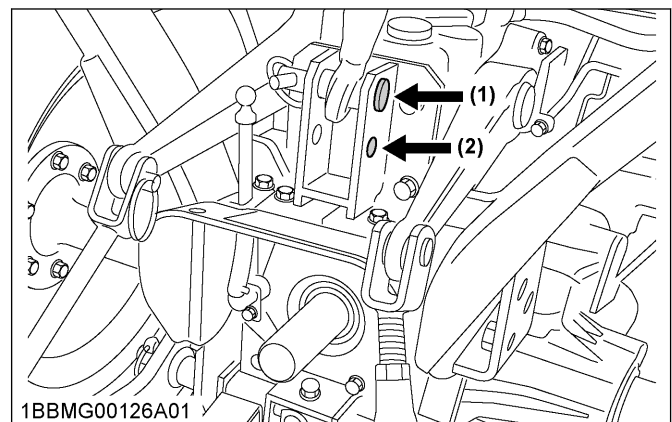
### NOTE :

- The lifting rods may be attached to (B) hole for greater lifting height.

## 2. Selecting the top link mounting holes

Select the proper set of holes.

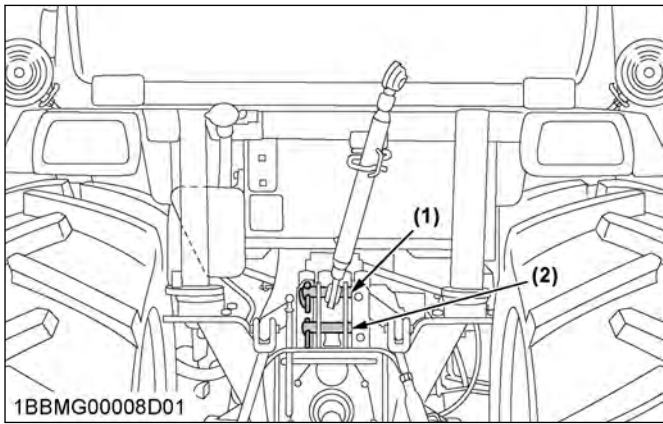
(See Hydraulic control unit use-reference chart on page 89.)



(1) Top link mounting hole 1  
(2) Top link mounting hole 2

### IMPORTANT :

- When storing the top link in its bracket, the top link pin may damage the rear glass of the CAB. Remove the pin from the hole at the end of the top link and insert it in the unused top link mounting hole.



- (1) Top link mounting hole 1
- (2) Top link mounting hole 2

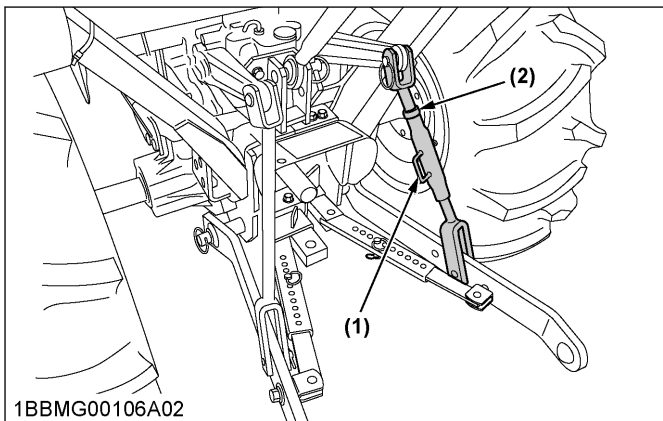
### 3. Drawbar

Remove the drawbar if a close-mounted implement is attached.

### 4. Lifting rod (right)

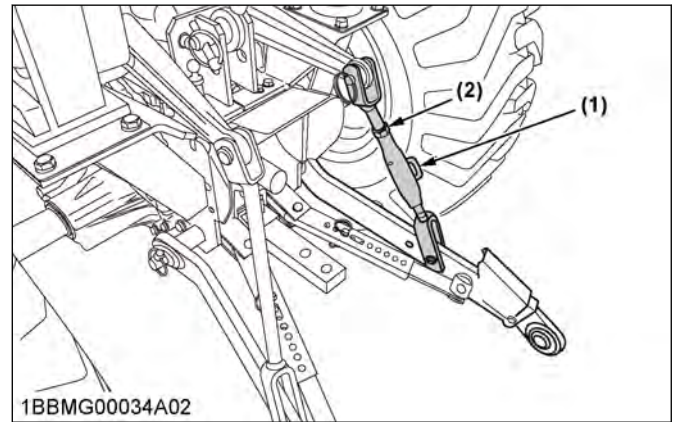
Level a 3-point mounted implement from side to side by turning the adjusting handle to shorten or lengthen the adjustable lifting rod with the implement on the ground. After adjustment, tighten the lock nut securely.

#### ROPS model



- (1) Adjusting handle
- (2) Lock nut

#### CAB model



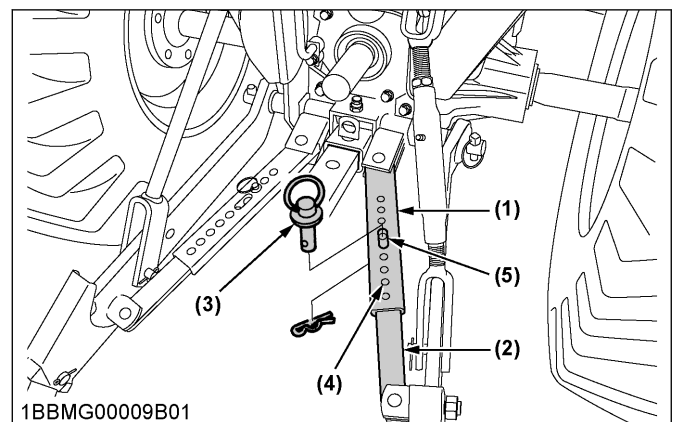
- (1) Adjusting handle
- (2) Lock nut

### 5. Top link

1. Adjust the angle of the implement to the desired position by shortening or lengthening the top link.
2. The proper length of the top link varies according to the type of implement being used.

### 6. Telescopic stabilizers

1. Adjust the telescopic stabilizers to control horizontal sway of the implement.  
Select the proper set of holes.  
(See Hydraulic control unit use-reference chart on page 89.)
2. After aligning satisfactorily, insert the set-pin through any one of the holes on the outer tube that align with one of the holes on the inner bar and both stabilizers will be locked.  
If the set-pin is inserted through the slot to engage one of the holes on the inner bar, a limited degree of sway will be permitted.

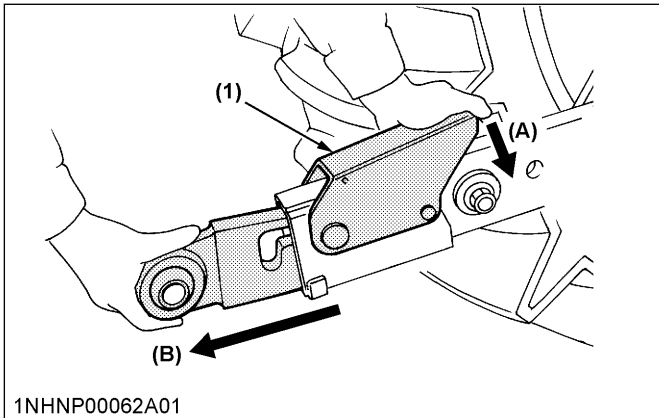


- (1) Outer tube
- (2) Inner bar
- (3) Set-pin
- (4) Hole
- (5) Slot

## 7. Telescopic lower links [CAB model]

To attach an implement, follow the instructions below:

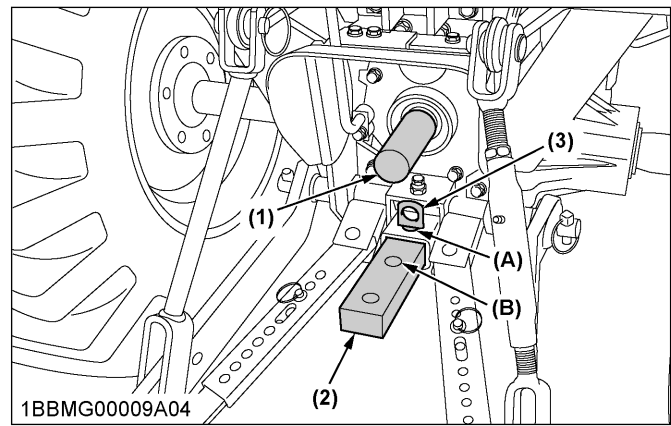
1. Push the levers, pull out the lower link ends, and attach to the implement.
2. Back up the tractor slightly to make sure the lower links are pushed in securely.



(1) Lever

(A) "PUSH"

(B) "PULL OUT"



(1) PTO Shaft cap

(2) Drawbar

(3) Drawbar pin

(A) Hole

(B) Hole

## DRAWBAR

### WARNING

To avoid personal injury or death:

- Never pull from the top link, the rear axle or any point above the drawbar. Doing so could cause the tractor to tip over rearward.

### 1. Adjusting drawbar length

1. When towing an implement, it is recommended that hole (A) in drawbar be utilized.
2. For information about the drawbar load, read the implement limitations section of this manual. (See IMPLEMENT LIMITATIONS on page 35.)

# HYDRAULIC UNIT

## 3-POINT HITCH CONTROL SYSTEM

### WARNING

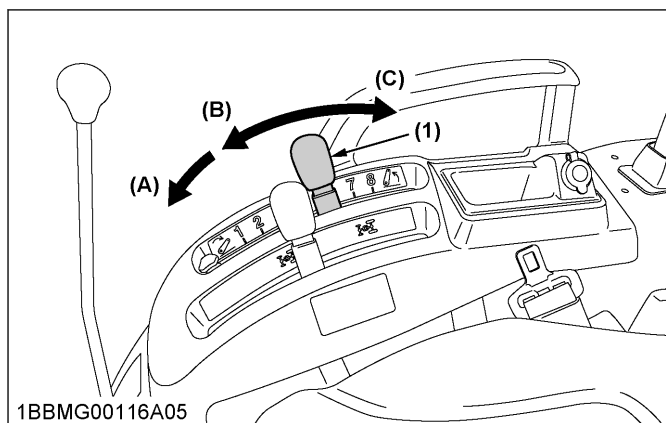
To avoid personal injury or death:

- Before using the 3-point hitch controls, ensure that no person or object is in the area surrounding the implement or 3-point hitch. Do not stand on or near the implement or between the implement and tractor when operating the 3-point hitch controls.

### 1. Position control

This will control the working depth of 3-point hitch mounted implement regardless of the amount of pull required.

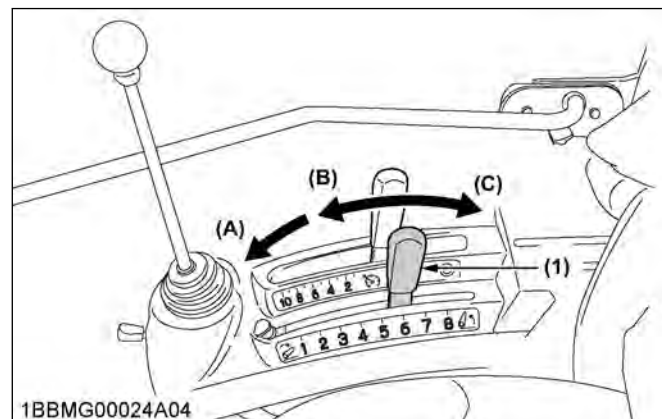
#### ROPS model



(1) Position control lever

- (A) "FLOAT"  
(B) "DOWN"  
(C) "UP"

#### CAB model



(1) Position control lever

- (A) "FLOAT"  
(B) "DOWN"  
(C) "UP"

#### IMPORTANT :

- If the 3-point hitch can not be raised by setting the hydraulic control lever to the "UP" position after long term storage or when changing the transmission oil, turn steering wheel to the right and left several times to bleed air from the system.
- Do not operate until the engine is warmed up. If operation is attempted when the engine is still cold, the hydraulic system may be damaged.
- If noises are heard when implement is lifting after the hydraulic control lever has been activated, the hydraulic mechanism is not adjusted properly.  
Unless corrected, the unit will be damaged.  
Contact your KUBOTA Dealer for adjustment.

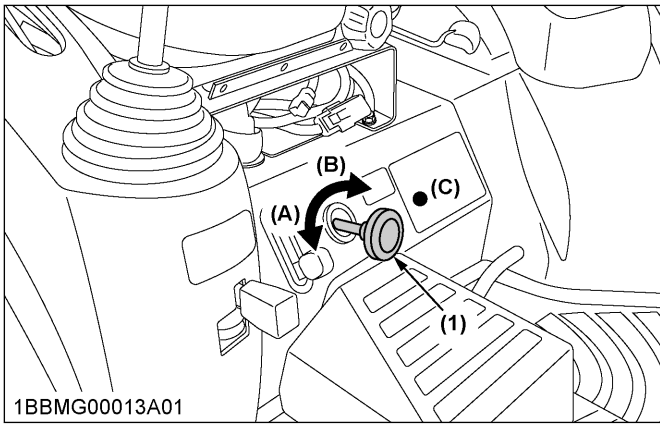
### 2. 3-point hitch lowering speed knob

#### WARNING

To avoid personal injury or death:

- A fast lowering speed may cause damage or injury. The lowering speed of the implement should be adjusted to 2 or more seconds.

The lowering speed of the 3-point hitch can be controlled by adjusting the 3-point hitch lowering speed knob.



1BBMG00013A01

- (1) 3-point hitch lowering speed knob
- (A) "FAST"
- (B) "SLOW"
- (C) "LOCK"

## AUXILIARY HYDRAULICS

Hydraulic outlet is (rear) provided on the tractor.

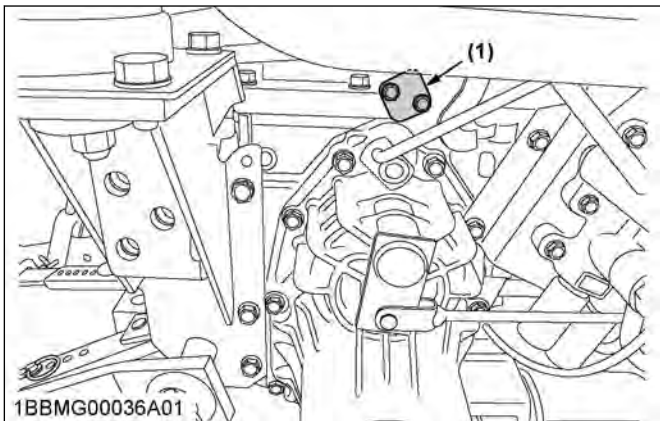
### 1. Hydraulic block type outlet

Hydraulic block type outlet is useful when adding hydraulically operated equipment such as front end loader, front blade, etc.

When an implement is attached

1. Remove the block cover.
2. Attach the block outlet cover (option).

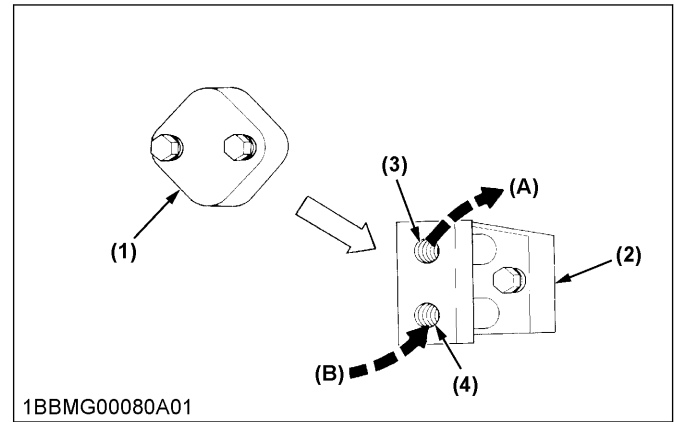
When implement is not attached



1BBMG00036A01

- (1) Block cover

When implement is attached



1BBMG00080A01

- (1) Block cover
- (2) Block outlet cover (option)
- (3) Outlet
- (4) Inlet
- (A) To implement inlet
- (B) From implement outlet

Implement inlet

|               |   |
|---------------|---|
| Max. flow     | 18.9 L/min<br>(5.0 U.S.gals./min)   |
| Max. pressure | 15.8 to 16.6 MPa<br>(161 to 169 kgf/cm <sup>2</sup> )<br>(2292 to 2408 psi) |

NOTE :

- If the control valve of implement has the relief valve, the tank port flow from implement should be connected to the port (c).

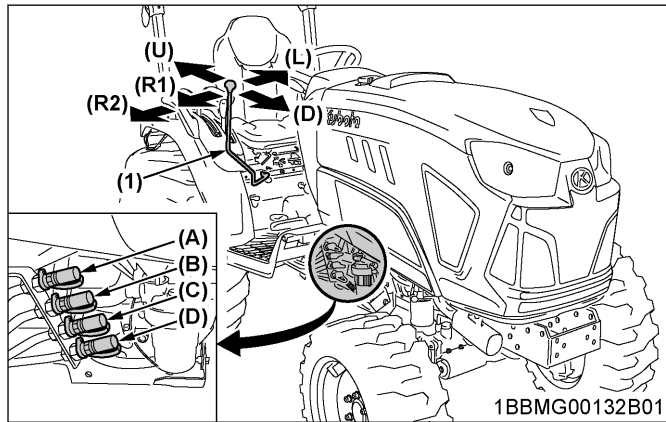
### 2. Dual remote hydraulic control system

The tractor is equipped with the double-acting 2-segment hydraulic control valve for front loader. To apply the hydraulic power take-off for general attachments, keep the following point in mind.

#### 2.1 Control lever and hydraulic hose connections

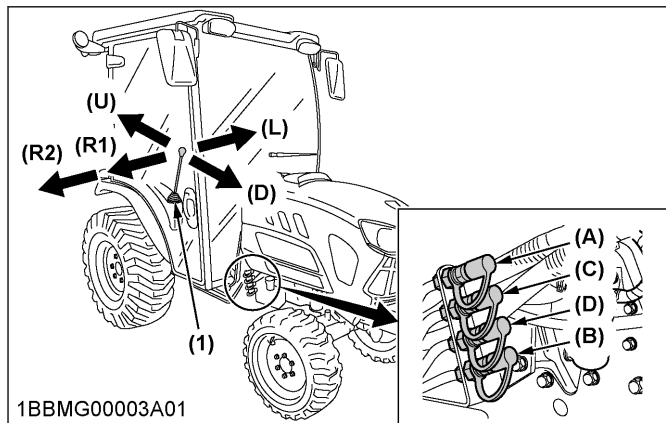
Connect the control lever in its specified direction and the hydraulic hoses to their specified ports.

**ROPS model**

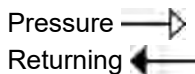


(1) Loader control lever  
 (R) "RIGHT"  
 (L) "LEFT"  
 (U) "UP"  
 (D) "DOWN"

**CAB model**



(1) Loader control lever  
 (R) "RIGHT"  
 (L) "LEFT"  
 (U) "UP"  
 (D) "DOWN"



**Hydraulic outlet ports of first segment**

| Lever |     | UP  |   | DOWN |   |
|-------|-----|-----|---|------|---|
| Port  | (A) | In  | ← | Out  | → |
|       | (B) | Out | → | In   | ← |

**Hydraulic outlet ports of second segment**

| Lever |     | RIGHT |   | LEFT |   |
|-------|-----|-------|---|------|---|
| Port  | (C) | In    | ← | Out  | → |
|       | (D) | Out   | → | In   | ← |

**IMPORTANT :**

To avoid damage of the attachments:

- Do not connect attachments through the hydraulic motor to the [C] and [D] ports. If the control lever is moved to the Regeneration

position (R1), the seals on the hydraulic motor will be damaged.

- This control valve is provided with the Regeneration position. When the [C] and [D] ports are used to take off hydraulic power for the hydraulic cylinder, be sure to connect the [C] port to the "Head-End" side port of the hydraulic cylinder.
- Make the following connections when using this valve to take off hydraulic power for the hydraulic cylinder.

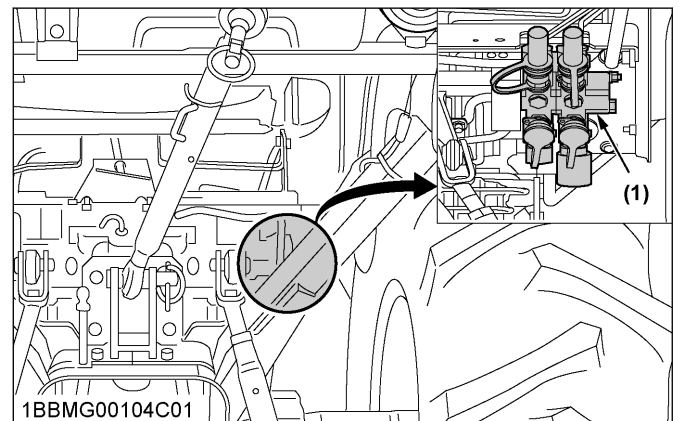
| Colored coupler        | Hydraulic cylinder port |
|------------------------|-------------------------|
| [B: yellow], [C: blue] | Head-end side           |
| [A: white], [D: red]   | Rod-end side            |

- For the attachment side, the couplers made by Parker Hannifin are recommended.

**2.2 Rear hydraulic outlet (if equipped)**

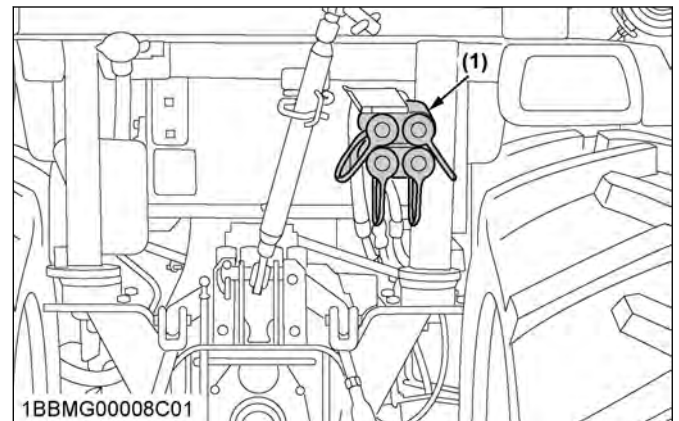
With the optional kit in place, oil can be taken out of the back of the tractor.

**ROPS model**



(1) Rear hydraulic outlet

**CAB model**

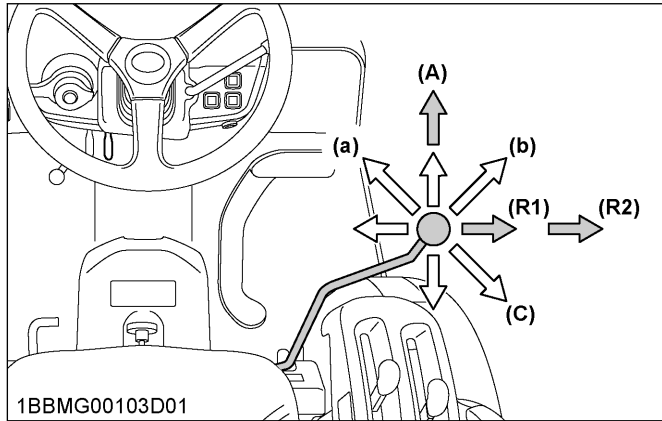


(1) Rear hydraulic outlet

### 2.3 Loader/remote control valve lever

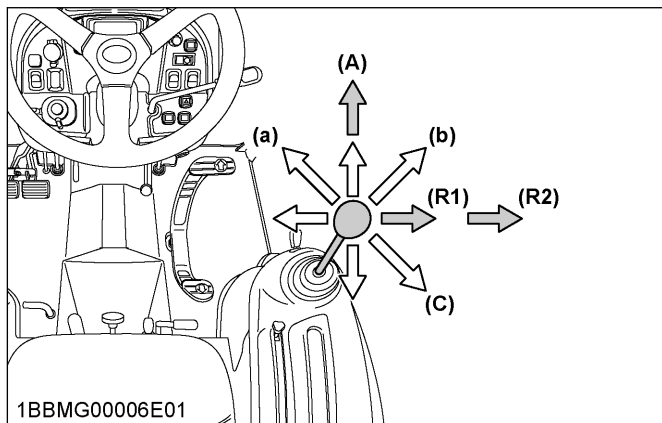
1. Before moving the lever, make sure that the hydraulic hoses for attachments are connected.
2. Move the lever diagonally ((a), (b), (c) shown in the figure), and the first and second segments can be controlled simultaneously.

#### ROPS model



(A) "FLOAT"

#### CAB model



(A) "FLOAT"

#### NOTE :

- Move the lever to the "FLOAT" position, and it will be held there by the detent mechanism. To use the valve as a floating valve with detents, connect the hydraulic hoses to ports [A] and [B].
- When taking off hydraulic power from port [D], the flow rate can be adjusted in 2 stages with the lever. The flow rate is high at position (R1) and low at position (R2). Move the lever to position (R1) or (R2) depending on the attachment in use.

### 2.4 Valve lock

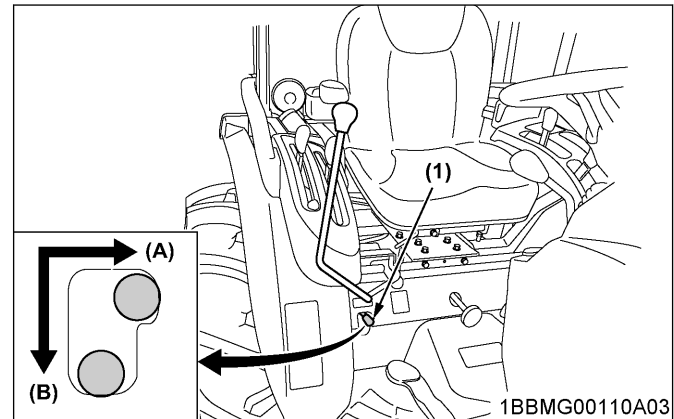
#### WARNING

To avoid personal injury or death from crushing:

- Do not utilize the valve lock for machine maintenance or repair.
- The valve lock is to prevent accidental actuation when implement is not in use or during transport.

The control valve is equipped with a valve lock feature. The control valve is locked in the "LOCK" position. The lock is not intended and will not prevent a leak down of the implement during the period of storage.

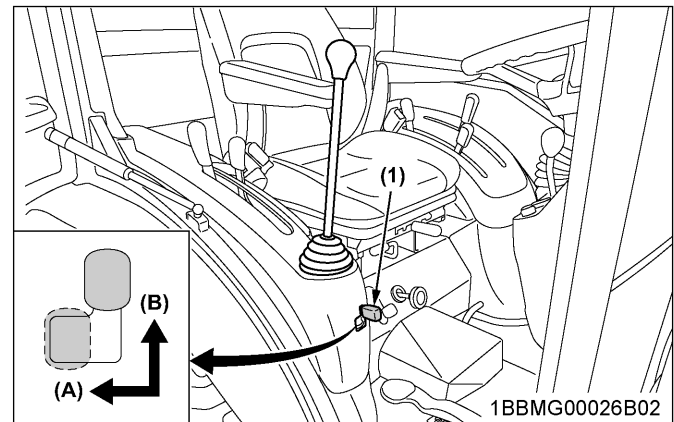
#### ROPS model



(1) Lock lever

(A) "UNLOCK"  
(B) "LOCK"

#### CAB model



(1) Lock lever

(A) "UNLOCK"  
(B) "LOCK"

### REMOTE HYDRAULIC CONTROL SYSTEM (IF EQUIPPED)

The hydraulic auxiliary control valves can be installed with up to 2 segments.



# 1. Remote control valve

There are 2 types of remote valves available for these models.

- Double acting valve.
- Double acting valve with float position:  
This valve may be placed in the float mode with the control lever all the way forward. The cylinder is free to extend or retract, letting an implement such as a loader bucket follow the ground.

**NOTE :**

- **Double acting valve with float position cannot be attached to the 1st position.**

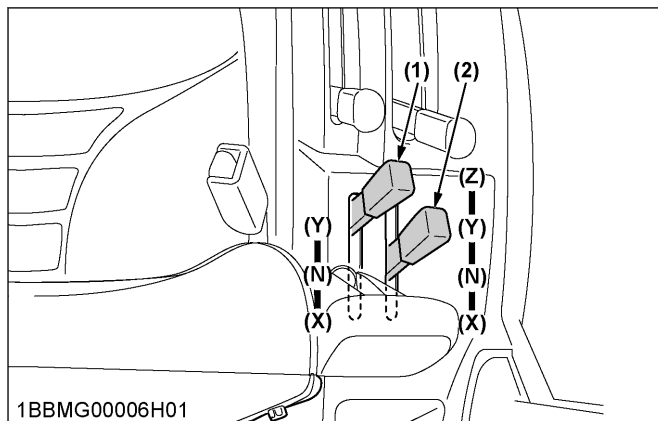
# 2. Remote control valve lever

The remote control valve lever directs pressurized oil flow to the implement hydraulic system.

**Example: Installing double segment valves**

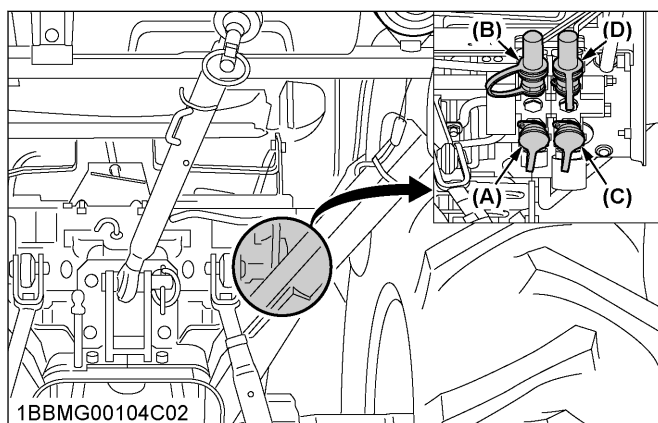
|     |   |
|-----|---|
| 1st | Double acting valve                     |
| 2nd | Double acting valve with float position |

**ROPS model**



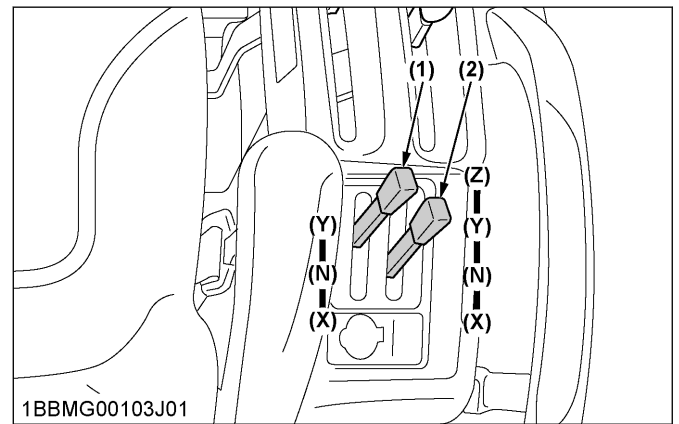
(1) Remote control valve lever 1  
(2) Remote control valve lever 2

**ROPS model**



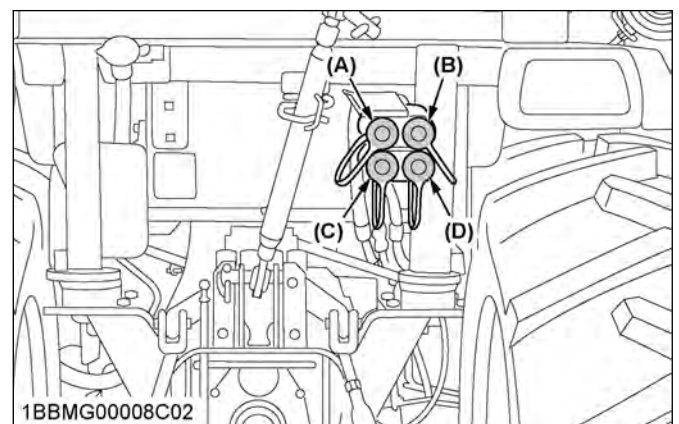
1BBMG00104C02

**CAB model**

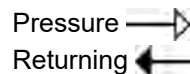


(1) Remote control valve lever 1  
(2) Remote control valve lever 2

**CAB model**



1BBMG00008C02



| Lever 1 |     | Lever position |   |     |   |
|---------|-----|----------------|---|-----|---|
|         |     | Y              |   | X   |   |
| Port    | (A) | In             | ← | Out | → |
|         | (B) | Out            | → | In  | ← |

| Lever 2 |     | Lever position |       |     |   |     |   |
|---------|-----|----------------|-------|-----|---|-----|---|
|         |     | Z (detent)     | Y     | X   |   |     |   |
| Port    | (A) | In             | Float | In  | ← | Out | → |
|         | (B) | Out            | Float | Out | → | In  | ← |

|                      |  | Coupler size |
|----------------------|--|--------------|
| Port [A] [B] [C] [D] |  | 1/4 NPTF     |

**IMPORTANT :**

- Do not hold the lever in the "REARWARD" or "FORWARD" position once the remote cylinder has reached the end of the stroke, as this will cause oil to flow through the relief valve.

- Forcing oil through the relief valve for extended periods will overheat the oil.
- When using the tractor hydraulic system to power the front loader, do not operate the boom and bucket cylinders simultaneously.

**NOTE :**

- To use the single-acting cylinder with the float valve, connect this cylinder to the (C) port. To extend a single-acting cylinder, pull the remote control valve lever rearward. To retract a cylinder, push it fully forward to the “*FLOAT*” position. Do not hold it in the down position or the transmission fluid may overheat.

### 3. Remote control valve coupler

 **WARNING**

To avoid personal injury or death:

- Stop the engine and relieve pressure before connecting or disconnecting lines.
- Do not use your hands to check for leaks.

**Connecting**

1. Clean both couplers.
2. Remove dust plugs.
3. Insert the implement coupler into the tractor hydraulic coupler.
4. Pull the implement coupler slightly to make sure couplers are firmly connected.

**Disconnecting**


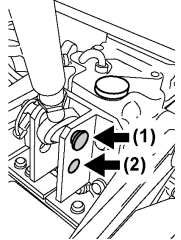
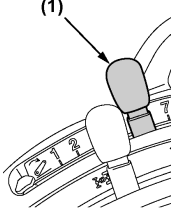
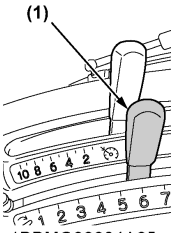
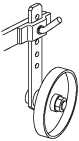
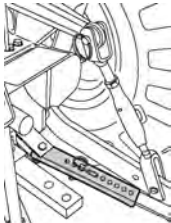
1. Lower the implement to the ground to release hydraulic pressure from the hoses.
2. Clean the couplers.
3. Relieve pressure by moving hydraulic control levers with engine shut off. Pull the hose straight from the hydraulic coupler to release it.
4. Clean oil and dust from the coupler, then replace the dust plugs.

**NOTE :**

- Your local KUBOTA Dealer can supply parts for adapting couplers to hydraulic hoses.

### 4. Hydraulic control unit use-reference chart

In order to handle the hydraulics properly, the operator must be familiar with the following. Although this information may not be applicable to all types of implements and soil conditions, it is useful for general conditions.

| Implement   | <br>1FEHH00035A01<br>Soil condition | <br>1BBMG00055B01<br>Top link mounting holes | ROPS model<br><br>1BBMG00116A06<br>CAB model<br><br>1BBMG00024A05<br>(1) Position control lever | <br>1FEHH00093A01<br>Gauge wheel | <br>1BBMG00034B01<br>(1) Telescopic stabilizers | Remarks  |
|---|--|---|---|---|--|--|
| Moldboard plow  | Light soil<br>Medium soil<br>Heavy soil  | Hole 1:<br>Hole 2 is used only when there is some obstacle that prevents you from using the hole 1.                           | Position control  | Yes/No  | Loose  | Insert the set-pin through the slot on the outer tube that align with one of the holes on the inner bar. For implements with gauge wheels, lower the implements to the ground.                   |
| Disc plow   | —  |   |   |   |  |  |
| Harrow (spike, spring-tooth, disc type)                       | —  |   |   |   |  |  |
| Subsoiler, etc.   | —  |   |   |   |  |  |
| Weeder, ridger, etc.  | —  |   |   | Yes   | Tighten  | Telescopic stabilizer should be tight enough to prevent excessive implement movement when implement is in raised position. For implements with gauge wheels, lower the implements to the ground. |
| Earth mover, digger, scraper, manure fork, rear carrier, etc. | —  |   |   | Yes/No  |  |  |
| Mower (mid-and rear-mount type)<br>Hay rake, tedder, etc.     | —  |   |   |   |  |  |

# TIRES, WHEELS AND BALLAST

## TIRES

### WARNING

To avoid personal injury or death:

- Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.
- Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure shown in the operator's manual.

### IMPORTANT :

- Do not use tires other than those approved by Kubota.

## 1. Inflation pressure

Although the tire pressure is factory-set to the prescribed level, it naturally drops slowly in the course of time. Thus, check it every day and inflate as necessary.

### IMPORTANT :

- When using large diameter industry tire with the mark \*, a separate spacer kit is needed.

### Rear tire

| Tire sizes                         | Inflation pressure                          |
|------------------------------------|---|
| 12.4-16.4, 4PR                     | 110 kPa (1.1 kgf/cm <sup>2</sup> , 16 psi.) |
| 13.6-16, 4PR                       | 100 kPa (1.0 kgf/cm <sup>2</sup> , 14 psi.) |
| 12.4-165 Industry, 4PR             | 138 kPa (1.4 kgf/cm <sup>2</sup> , 20 psi.) |
| 14-17.5 R14, 6PR                   | 210 kPa (2.1 kgf/cm <sup>2</sup> , 30 psi.) |
| 15-19.5 Industry, 4PR* [ROPS only] | 210 kPa (2.1 kgf/cm <sup>2</sup> , 30 psi.) |
| 15-19.5 R14, 8PR [ROPS only]       | 210 kPa (2.1 kgf/cm <sup>2</sup> , 30 psi.) |

### Front tire

| Tire sizes                            | Inflation pressure                          |
|---------------------------------------|---|
| 7-12, 4PR                             | 170 kPa (1.7 kgf/cm <sup>2</sup> , 24 psi.) |
| 24×8.50-14, 4PR                       | 150 kPa (1.5 kgf/cm <sup>2</sup> , 22 psi.) |
| 23×8-14 Industry, 4PR                 | 241 kPa (2.5 kgf/cm <sup>2</sup> , 35 psi.) |
| 23×8.50-12 R14 6PR                    | 234 kPa (2.4 kgf/cm <sup>2</sup> , 34 psi.) |
| 25×8.50-14 Industry, 4PR* [ROPS only] | 250 kPa (2.5 kgf/cm <sup>2</sup> , 35 psi.) |
| 25×8.50-14 R14 6PR [ROPS only]        | 221 kPa (2.2 kgf/cm <sup>2</sup> , 32 psi.) |

## 2. Dual tires

Dual tires are not approved.

## WHEEL ADJUSTMENT

### WARNING

To avoid personal injury or death:

- When working on slopes or when working with a trailer, set the wheel tread as wide as practical for maximum stability.
- Support the tractor securely on stands before removing a wheel.
- Do not work under any hydraulically supported devices. They can settle, suddenly leak, or be accidentally lowered. If necessary to work under the tractor or any machine elements for servicing or adjustments, securely support them with stands or suitable blocking beforehand.
- Never operate the tractor with a loose rim, wheel or axle.

## 1. Front wheels

Front tread width can not be adjusted.

### IMPORTANT :

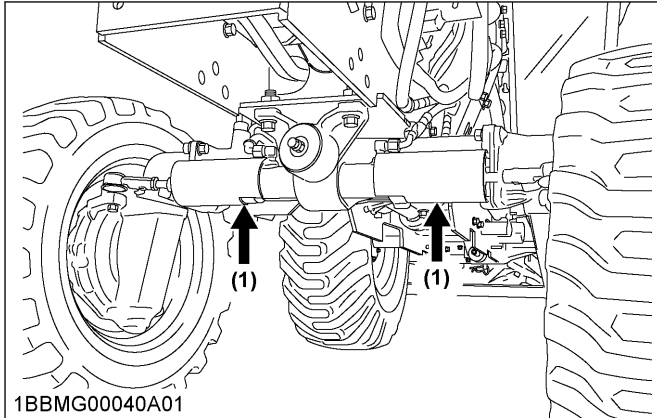
- Do not turn front discs to obtain wider tread. In setting up the front wheels, make sure that the inflation valve stem of the tires face outward.
- When re-fitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor 200 m (200 yard) and 10 times of shuttle movement by 5 m (5 yard), and thereafter according to service interval. (See MAINTENANCE on page 103.)

## 1.1 Front jack point

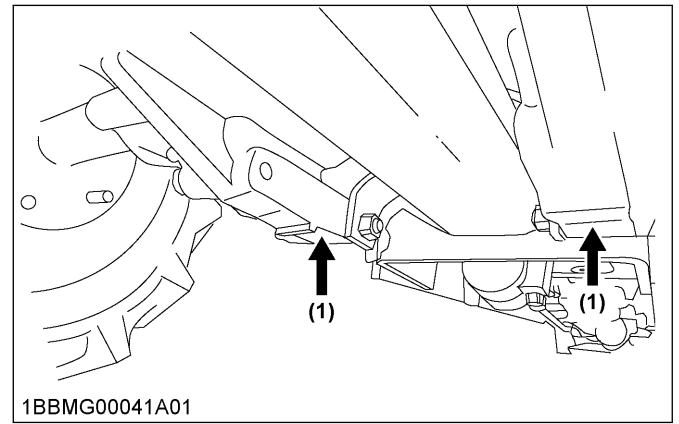
### WARNING

To avoid personal injury or death:

- Before jacking up the tractor, park it on a firm and level ground and chock the rear wheels.
- Fix the front axle to keep it from pivoting.
- Select jacks that withstand the machine weight and set them up as follows.



(1) Jack point



(1) Jack point

## 2. Rear wheels

Rear tread width can not be adjusted.

### IMPORTANT :

- When re-fitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor 200 m (200 yard) and 10 times of shuttle movement by 5 m (5 yards), and thereafter according to service interval.  
(See MAINTENANCE on page 103.)

## 2.1 Rear jack point


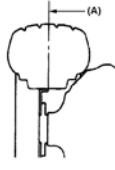
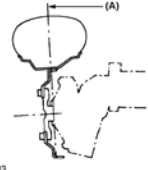
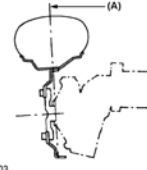
### WARNING

To avoid personal injury or death:

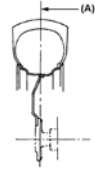
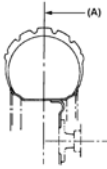
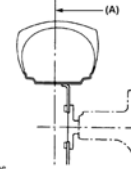
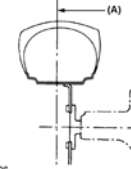
- Before jacking up the tractor, park it on a firm and level ground and chock the front wheels.
- Fix the front axle to keep it from pivoting.
- Select a jack that withstands the machine weight and set it up as follows.

### 3. Treads

#### Front

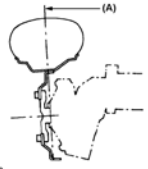
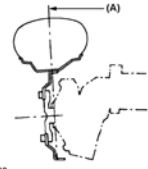
| Tire  | 7-12 Farm  | 24 × 8.50-14 Turf  | 23 × 8.50-14 Industry   | 23 × 8.50-12 R14   |
|-------|--|--|---|--|
| Tread |  <p>1BBMG00042A01<br/>(A) 935 mm<br/>(36.8 in.)</p> |  <p>1BBMG00042A02<br/>(A) 930 mm<br/>(36.6 in.)</p> |  <p>1BBMG00042A03<br/>(A) 905 mm<br/>(35.6 in.)</p> |  <p>1BBMG00042A03<br/>(A) 970 mm<br/>(38.1 in.)</p> |

#### Rear

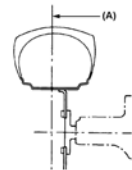
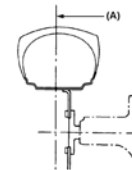
| Tire  | 12.4-16 Farm  | 13.6-16 Turf  | 12.4-16 Industry   | 14-17.5 R14   |
|-------|---|---|--|---|
| Tread |  <p>1BBMG00042A04<br/>(A) 1050 mm<br/>(41.3 in.)</p> |  <p>1BBMG00042A05<br/>(A) 1050 mm<br/>(41.3 in.)</p> |  <p>1BBMG00042A06<br/>(A) 1050 mm<br/>(41.3 in.)</p> |  <p>1BBMG00042A06<br/>(A) 1050 mm<br/>(41.3 in.)</p> |

#### [ROPS model only]

#### Front

| Tire  | 25×8.50-14 Industry  | 25 × 8.50-14 R14   |
|-------|--|--|
| Tread |  <p>1BBMG00042A03<br/>(A) 920 mm<br/>(36.2 in.)</p> |  <p>1BBMG00042A03<br/>(A) 920 mm<br/>(36.2 in.)</p> |

#### Rear

| Tire  | 15-19.5 Industry  | 15-19.5 R14   |
|-------|---|---|
| Tread |  <p>1BBMG00042A06<br/>(A) 1085 mm<br/>(42.7 in.)</p> |  <p>1BBMG00042A06<br/>(A) 1085 mm<br/>(42.7 in.)</p> |

# BALLAST

## WARNING

To avoid personal injury or death:

- Additional ballast will be needed for transporting 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 improved traction.

Heavy pulling and heavy rear mounted implements tend to lift up the front wheels.

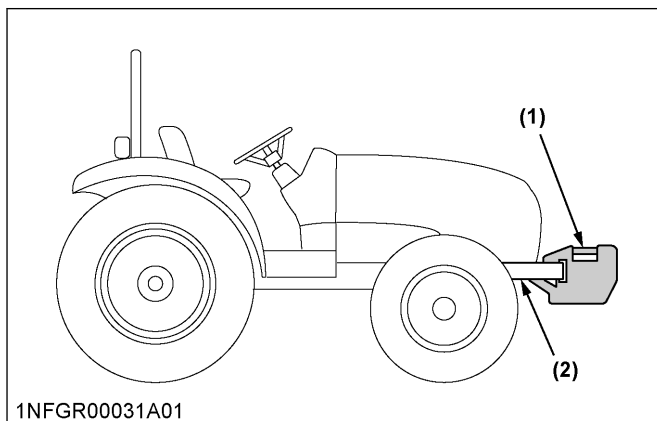
Add enough ballast to maintain steering control and to prevent tipping over. Remove the weight when it is no longer needed.

#### 1.1 Front end weights (option)

Front end weights can be attached to the bumper.

See your implement operator's manual for the required number of weights or consult your local KUBOTA Dealer about their usage.

- [For installation of up to 3 weights] (Except CAB model)  
Besides the weight, mounting bolt kit(s) are required for mounting the weight.
- [For installation of up to 5 weights]  
Besides the weight, a front weight bracket and mounting bolt kit(s) are required for mounting the weight.



1NFGR00031A01  
(1) Front end weights  
(2) Front weight bracket (option)

#### IMPORTANT :

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

|                |   |
|----------------|---|
| Maximum weight | 25 kg × 5 pieces<br>(125 kg (275 lbs.)) |
|----------------|---|

### 2. Rear ballast

Add weight to rear wheels if needed to improve traction or for stability.

The amount of rear ballast should be matched to job and the ballast should be removed when it is not needed.

The weight should be added to the tractor in the form of liquid ballast.

#### 2.1 Liquid ballast in rear tires

A water and calcium chloride solution provides safe and economical ballast. Used properly, it will not damage tires, tubes or rims. The addition of calcium chloride is recommended to prevent the water from freezing.

Use of this method of weighting the wheels has the full approval of the tire companies.

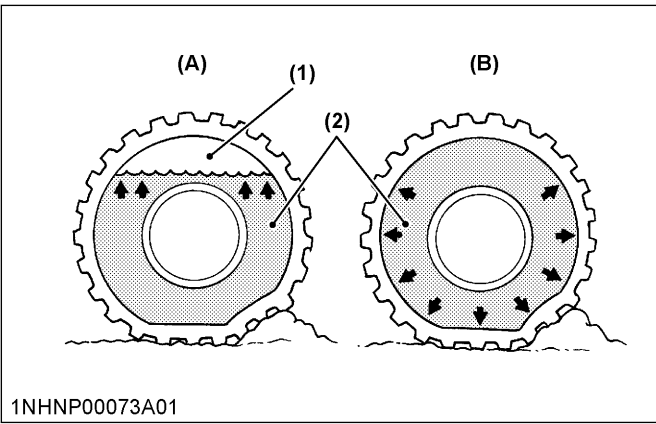
See your tire dealer for this service.

#### Liquid weight per tire (75% filled)

| Tire sizes   | 12.4-16             |
|--|---------------------|
| Slush free at -10 °C (14 °F)<br>Solid at -30 °C (-22 °F)<br>Approx. 1 kg (2 lbs.) CaCl <sub>2</sub> per 4 L (1 gal.) of water      | 85 kg<br>(187 lbs.) |
| Slush free at -24 °C (-11 °F)<br>Solid at -47 °C (-53 °F)<br>Approx. 1.5 kg (3.5 lbs.) CaCl <sub>2</sub> per 4 L (1 gal.) of water | 89 kg<br>(196 lbs.) |
| Slush free at -47 °C (-53 °F)<br>Solid at -52 °C (-62 °F)<br>Approx. 2.25 kg (5 lbs.) CaCl <sub>2</sub> per 4 L (1 gal.) of water  | 94 kg<br>(207 lbs.) |

#### IMPORTANT :

- Do not fill tires with water or solution to more than 75% of full capacity (to the valve stem level).



- (1) Air
- (2) Water
- (A) Correct - 75% full, air compresses like a cushion
- (B) Incorrect - 100% full, water cannot be compressed

- While the backhoe is installed on the tractor, the liquid ballast in the rear tires should be removed.
- While the loader is installed on the CAB tractor, the liquid ballast in the rear tires should be removed.



# CAB OPERATION

## DOORS AND WINDOWS

### 1. Locking and unlocking the door

#### “From the outside”

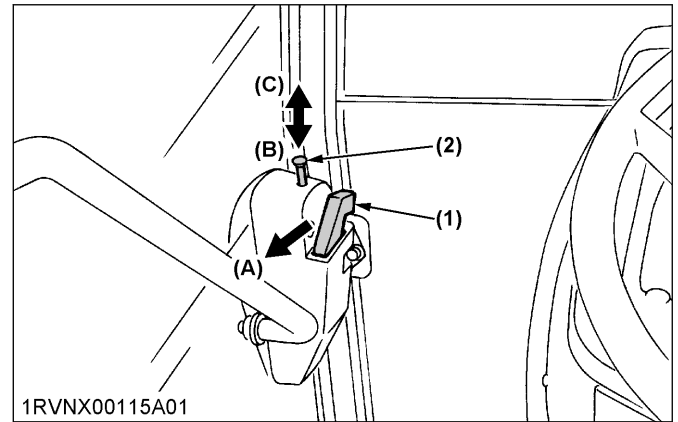
Insert the key into the door lock. Turn the key clockwise to unlock the door. To lock the door, turn the key in the opposite direction.

The key can be removed when it is in the vertical position.

#### “From the inside”

Push down the lock knob to lock the door.

Pull up the lock knob to unlock the door.



1RVNX00115A01

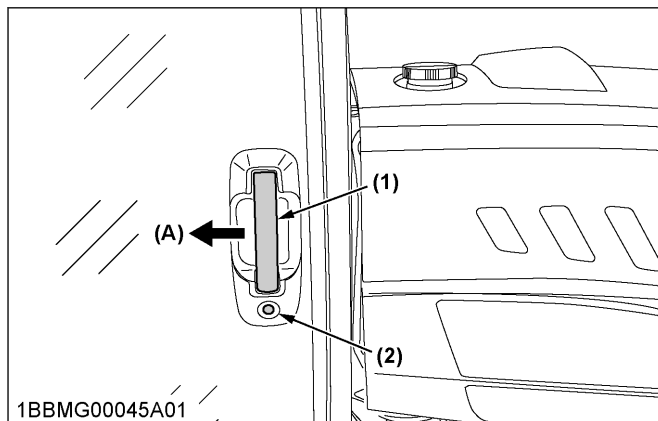
- (1) Inner door handle  
(2) Lock knob

- (A) “PULL”  
(B) “PUSH” (Lock)  
(C) “PULL” (Unlock)

### 2. Opening the door

#### “From the outside”

Unlock the door, and pull the outer door handle.



1BBMG00045A01

- (1) Outer door handle  
(2) Door lock

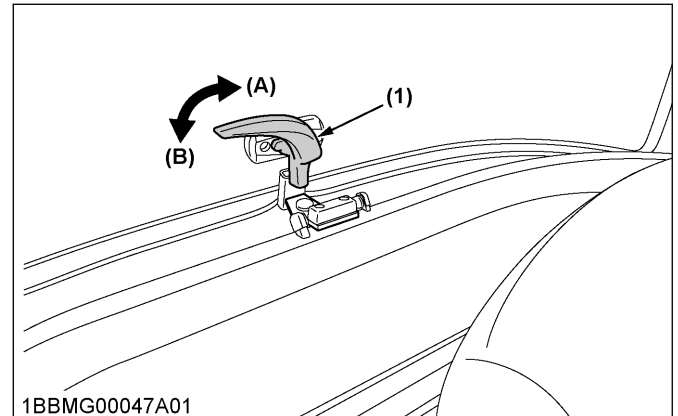
- (A) “PULL”

#### “From the inside”

Unlock the door and pull the inner door handle.

### 3. Rear window

Turn the rear window handle clockwise to the vertical position and push the handle. The rear window is opened by the gas spring cylinder.



1BBMG00047A01

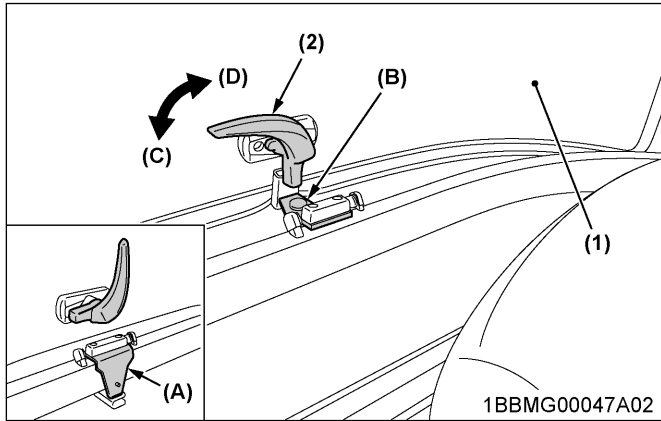
- (1) Rear window handle

- (A) “OPEN”  
(B) “CLOSE”

### 4. Rear window half-lock

1. Grip the rear window handle (2) and slightly open the rear window (1).
2. Adjust the half-lock bracket to the set position (B).

3. Move back the rear window (1) a little and get the rear window handle (2) locked.



- (1) Rear window
- (2) Rear window handle
- (A) Half-lock bracket (storage position)
- (B) Half-lock bracket (set position)
- (C) "LOCK"
- (D) "UNLOCK"

**IMPORTANT :**

- When handling the half-lock mechanism, hold up the window just before being positioned and then slowly get it in position.
- Be careful not to travel the machine in the half-lock mode on rough roads.

**5. Emergency exit**

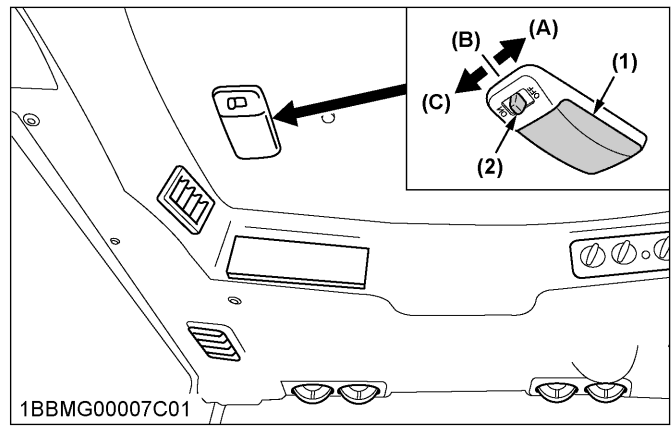
1. In an emergency situation, open the right door of the CAB if the left door is blocked and vice versa.
2. Exit through the rear window if the CAB doors are blocked.

**LIGHT**

**1. Dome light**

Sliding the dome light switch will give the following light condition:

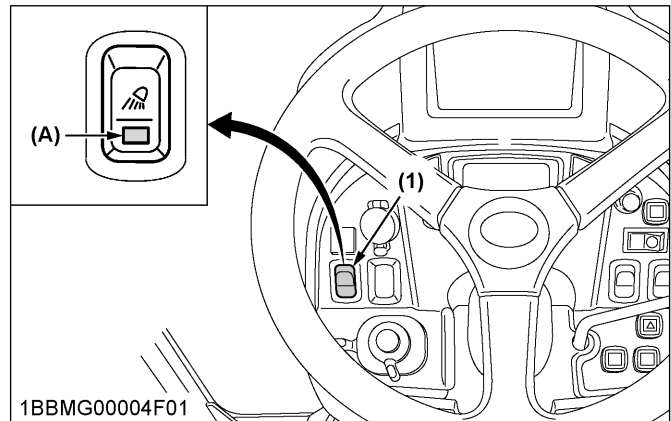
- [OFF]**  
The light does not turn on.
- [ON]**  
The light remains on.



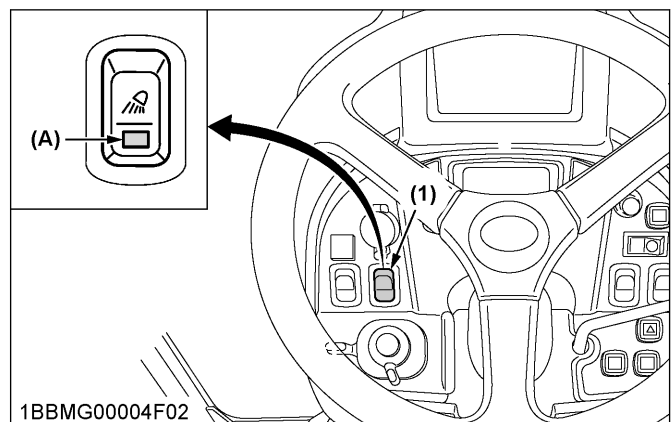
- (1) Dome light
- (2) Dome light switch
- (A) "OFF"
- (B) "OFF"
- (C) "ON"

**2. Work light switch**

Turn on the key switch and press the top half of the work light switch. The work light and the switch's indicator light up. Press the bottom half of the work light switch to turn off the light and indicator.

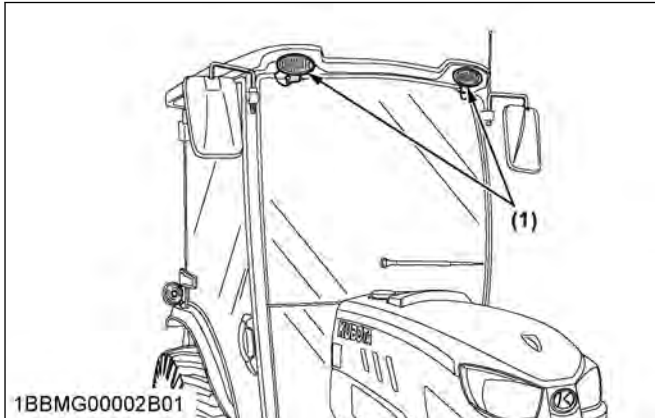


- (1) Front work light switch
- (A) Indicator for work lights



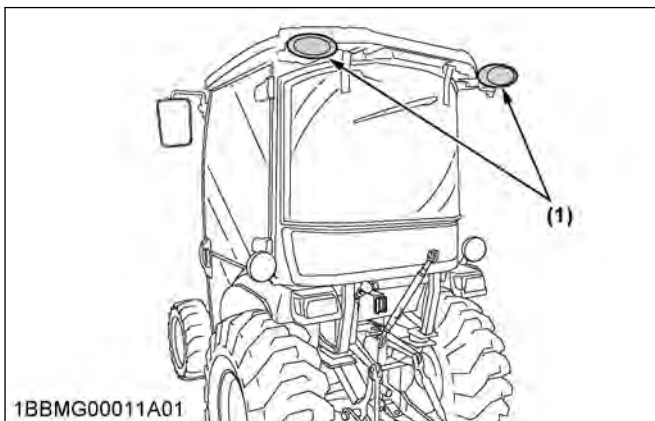
- (1) Rear work light switch (if equipped)
- (A) Indicator for work lights

### 3. Front work light



(1) Front work light

### 4. Rear work light (if equipped)



(1) Rear work light

## WIPER

### 1. Front wiper and washer switch

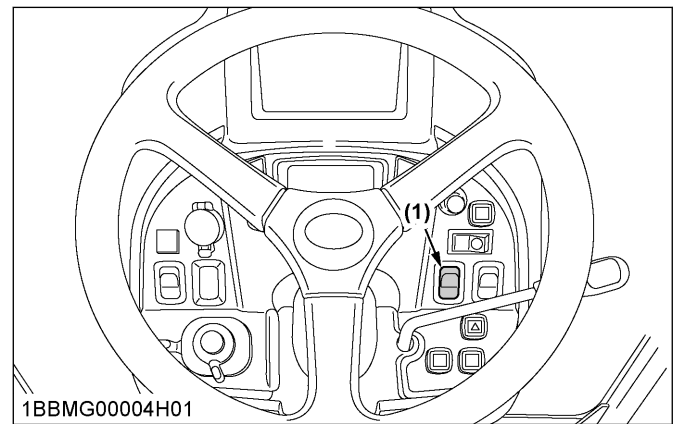
When the button is pressed to the first step, the wiper only is activated.

When the button is pressed further to the second step, washer fluid jets out.

The washing continues while the button is pressed and wiper is activated continuously. (Washer fluid jets out to the rear window also.)

Hold down the bottom half of the switch when the front wiper is off, and washer fluid will keep jets out.

To wet the glass before activating the wipers, press the bottom half of the switch. (Washer fluid jets out to the rear window also.)

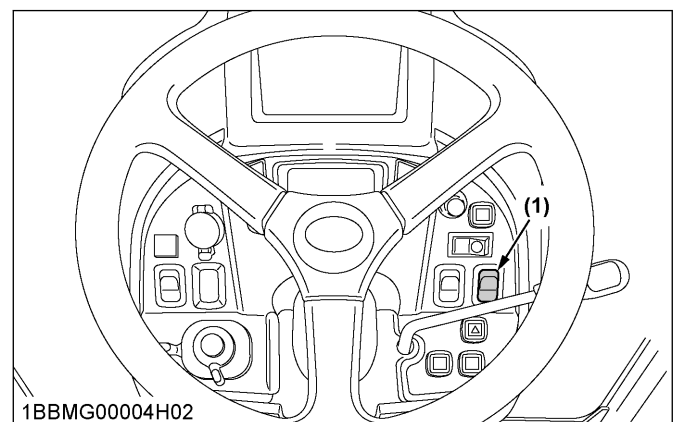


(1) Front wiper and washer switch

### 2. Rear wiper and washer switch

Press the upper half of the wiper switch, and the wiper is activated. Press the lower half of the wiper switch, and the wiper stops at the initial position.

To jet washer fluid, push the front wiper and washer switch. (Washer fluid jets out to the front window also.)



(1) Rear wiper switch

#### IMPORTANT :

- **Do not activate the wipers when the windows are dry, they may be scratched.**  
**Be sure to jet washer fluid first and then activate the wipers.**

### 3. Using the wipers in cold season

1. While not used in cold season, keep the wiper blades off the windshield to prevent them from being frozen to the windshield.
2. If the windshield is covered with snow, scrape it off the windshield before using the wipers.
3. If the wiper blades are frozen to the windshield and fail to move, be sure to turn the main key switch to "OFF" and remove the ice from the blades. Then place the main key switch back to "ON".

- When commercially available cold-season wiper blades are used, make sure their size is the same as or smaller than that of the standard ones.

**IMPORTANT :**

- In the cold season, the wiper blades and the wiper motor may become overloaded, and cause damage. To avoid this, be sure to take the above precautions.

## AIR CONDITIONER

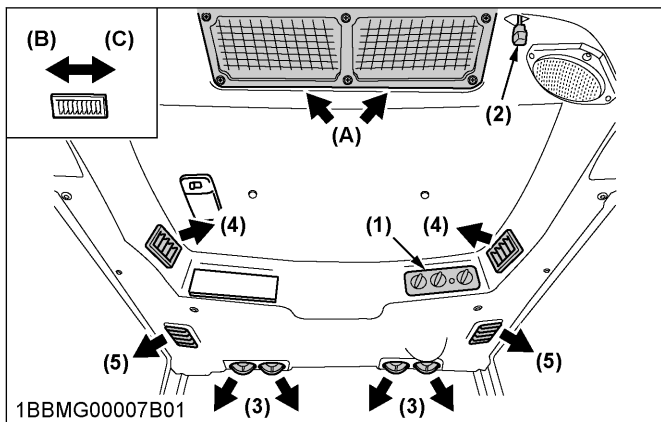
**CAUTION**

To avoid personal injury:

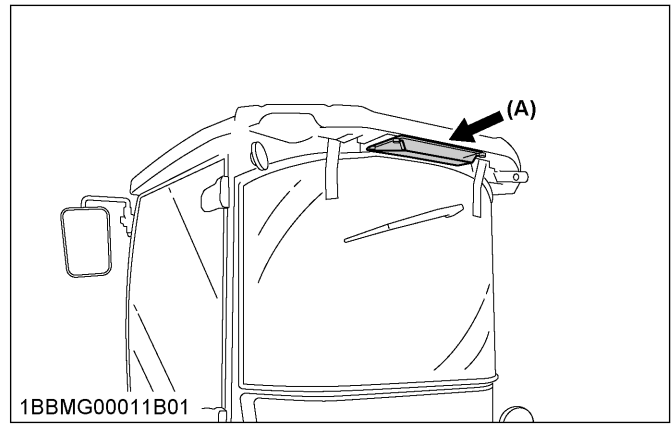
- If the window fails to defrost in extreme conditions or becomes cloudy when dehumidifying the CAB, wipe off moisture with a soft cloth.
- Do not block all the air outlets of the air conditioner. A problem could occur.

### 1. Airflow

Air in the CAB and fresh air introduced into the CAB flows as follows. Adjust the air ports to obtain the desired condition.



- |   |                             |
|---|-----------------------------|
| (1) Control panel                                     | (A) Inner air recirculation |
| (2) Recirculation or fresh air selection lever        | (B) "OPEN"                  |
| (3) Front air outlet (defrost, windshield, foot area) | (C) "SHUT"                  |
| (4) Side air outlet (face, back area)                 |                             |
| (5) Door air outlet (door area)                       |                             |



(A) Fresh air inlet

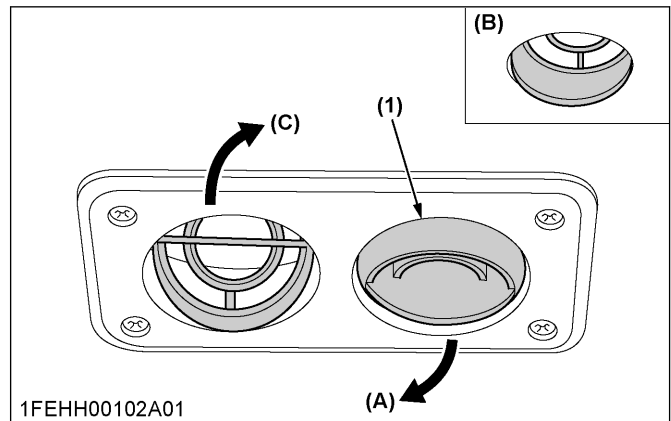
**IMPORTANT :**

- Do not pour water directly into the fresh air port while washing the tractor.

### 2. Air control vent

#### 2.1 Front air outlet

The front air outlets can be independently adjusted as required. To defrost the windshield, rotate the outlets toward the windshield.

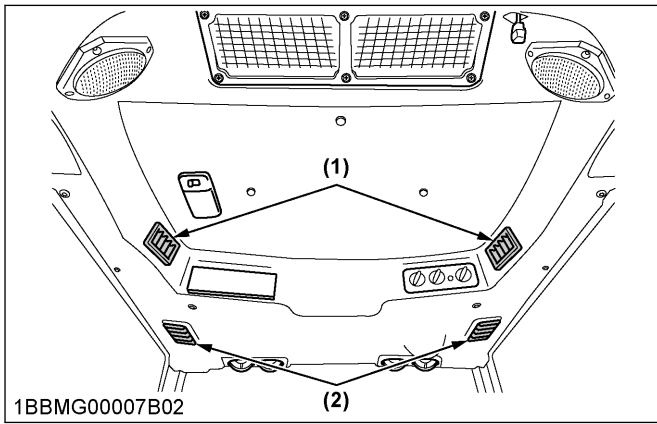


(1) Front air outlet

- (A) "WINDSHIELD"  
 (B) "CLOSED"  
 (C) "CHEST AREA"

#### 2.2 Side air outlet and door air outlet

The side and door air outlets can be adjusted to direct air on to the operator, door window or the rear of the CAB.



(1) Side air outlet  
(2) Door air outlet

**NOTE :**


- If the airflow rate at the face is too low, close the door air outlet.

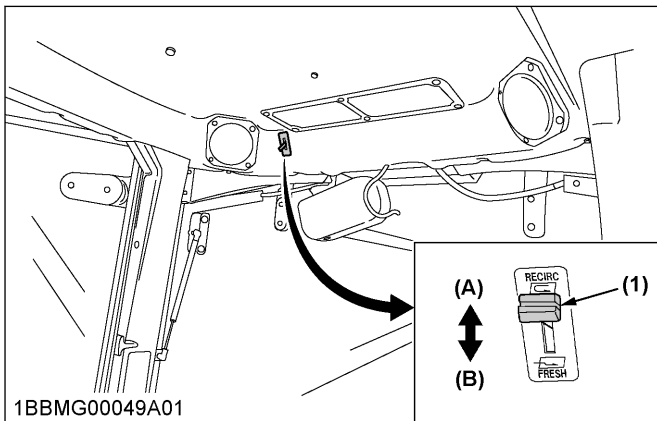
**2.3 Recirculation or fresh air selection lever**

**FRESH AIR:**

Set the lever to the  position, and fresh air will flow into the CAB. This is helpful when you work in dusty conditions or if the glass windows get foggy.

**RECIRCULATION:**

Set the lever to the  position, and the in-CAB air will be recirculated. This is useful for cooling or heating the CAB quickly or keeping it extra cool or warm.



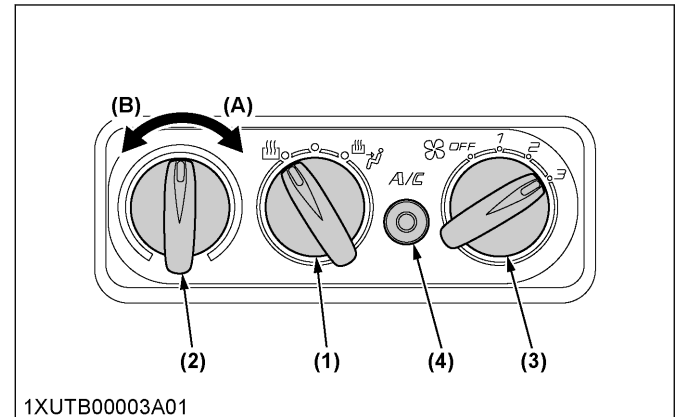
(1) Recirculation or fresh air selection lever  
(A) "RECIRCULATION"  
(B) "FRESH AIR"

**NOTE :**

- When heating, do not keep the lever at the "RECIRCULATION" position for a long time. The windshield easily gets foggy.
- While working in dusty conditions, keep the lever at the "FRESH AIR" position. This



increases the pressure in the CAB, which helps prevent dust from coming into the CAB.

**3. Control panel**



(1) Mode switch (A) "WARM"  
(2) Temperature control dial (B) "COOL"  
(3) Blower switch  
(4) Air conditioner switch with indicator light

**3.1 Mode switch**

Set the mode switch to the desired position.  
 Air is blown from the front and side air outlets.  
 Air is blown from only the front air outlets.

- With this switch at the middle position, air is blown weaker from the side air outlets (head) and stronger from the front air outlets.

**3.2 Temperature control dial**

Set this dial at the desired position to obtain the optimum air temperature. Turn the dial in the "WARM" direction to obtain warmer air. Turn it in the "COOL" direction to obtain cooler air.

**3.3 Blower switch**

Air volume can be changed in 3 steps. At the [3] position, the largest air volume is obtained.

**3.4 Air conditioner switch**

Push this switch to activate the air conditioner. An indicator light will light up when the switch is set to "ON".

Push the switch again to turn the air conditioner off, in which case the indicator light will turn off.

**IMPORTANT :**

- To operate the air conditioner after the tractor has not been used for one week or longer, run the engine at idling speed first and then set the

air conditioner switch to “ON”. Keep this for one minute or so.

If the air conditioner switch is set to “ON” with the engine running at high rpm, the compressor may get in trouble.

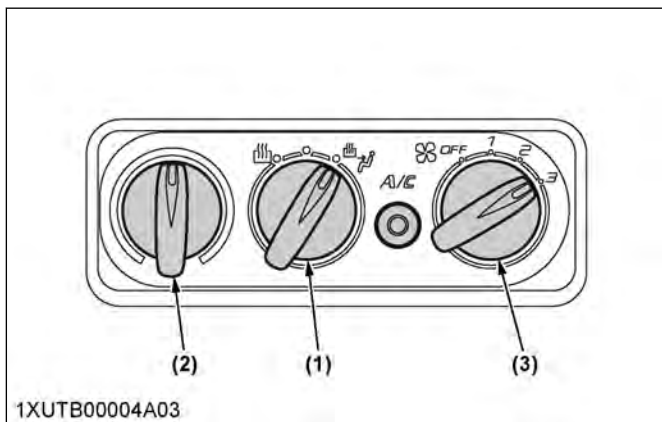
**NOTE :**

- With the blower switch at the “OFF” position, the indicator light will not light up even when the air conditioner switch is set to “ON”.

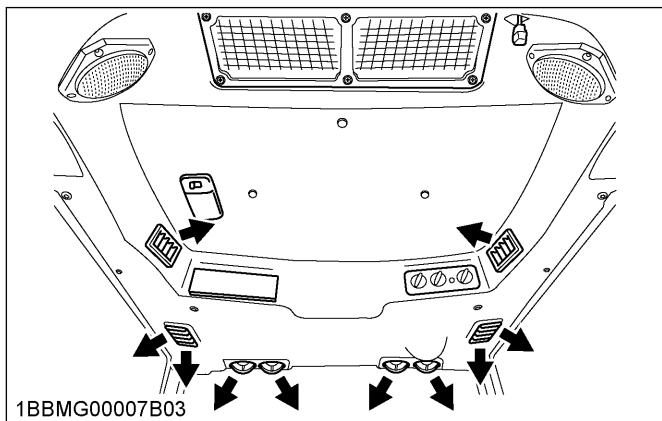
**4. Operation**

**4.1 Heating**

1. Set the mode switch to the , ● or position.
2. Set the recirculation or fresh air selection lever to the “FRESH AIR” position. To raise the temperature in the CAB quickly, set this lever to the “RECIRCULATION” position.
3. Adjust the blower ([1]/[2]/[3]) switch and the temperature control dial to achieve a comfortable temperature level.



- (1) Mode switch
- (2) Temperature control dial
- (3) Blower switch



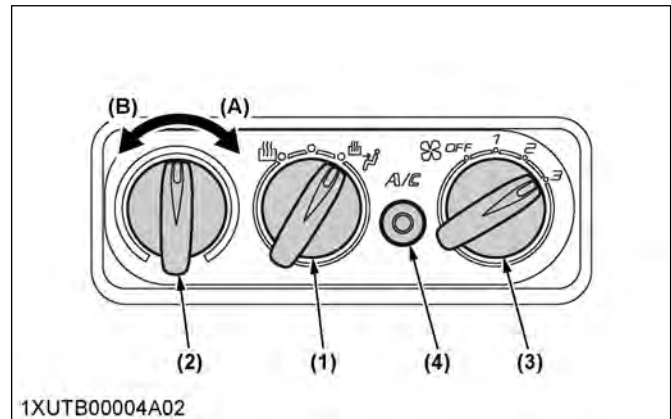
**4.2 Cooling or dehumidifying-heating**

1. Set the mode switch to the position.

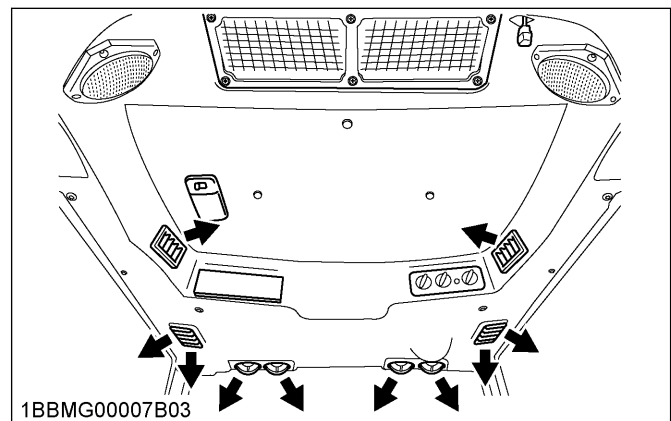
2. Set the recirculation or fresh air selection lever to the “FRESH AIR” position. To lower the temperature in the CAB quickly, set this switch to the “RECIRCULATION” position.
3. Press and turn on the air conditioner switch with indicator.
4. Turn on the blower ([1]/[2]/[3]) switch.
5. Adjust the temperature control dial to “COOL” or intermediate position to achieve a comfortable temperature level.

**NOTE :**

- In summer when the heater is not used, keep the temperature control dial at the max “COOL” (end of counterclockwise) position. Otherwise, hot air will raise the temperature in the CAB.



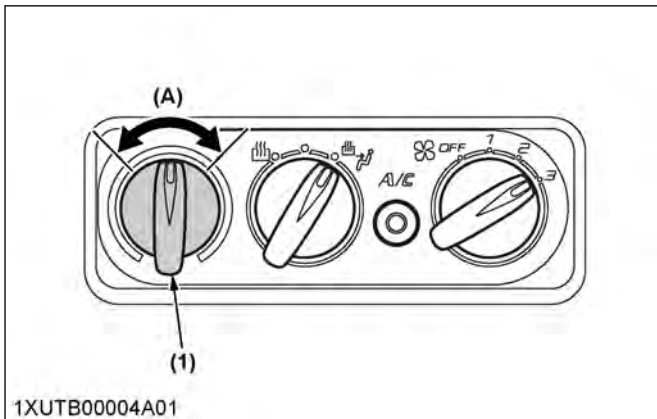
- (1) Mode switch
  - (2) Temperature control dial
  - (3) Blower switch
  - (4) Air conditioner switch with indicator light
- (A) “WARM”  
(B) “COOL”



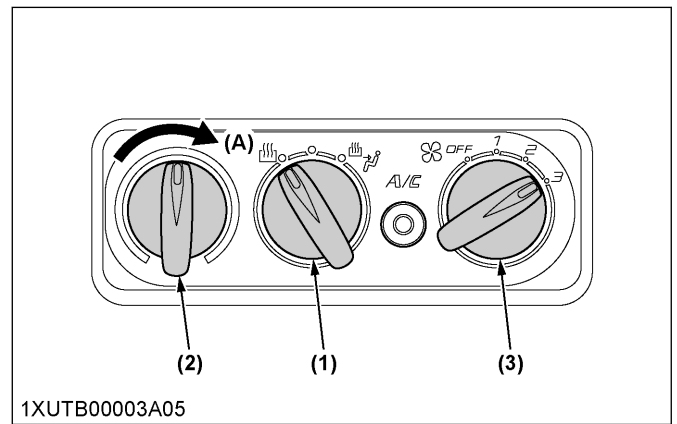
**4.3 Foot warming and head cooling**

1. Set the mode switch to the position.
2. In the cooling or dehumidifying-heating mode, set the temperature control dial at the center position area.

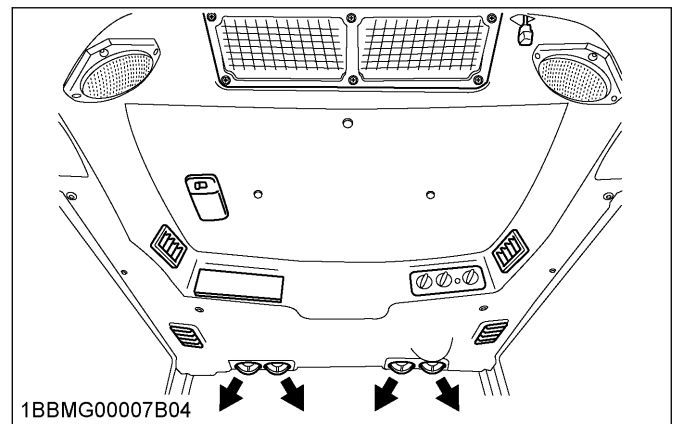
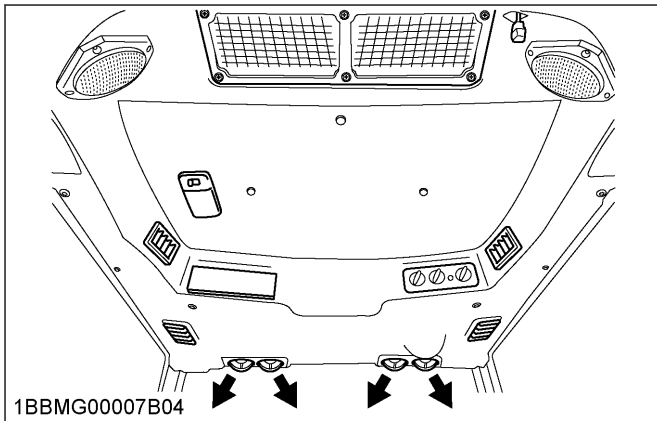
3. Open the front air outlet and the door air outlet direct it to your feet.
4. You can feel your head cool and your feet warm.



(1) Temperature control dial (A) Center position area



(1) Mode switch (A) "WARM"  
 (2) Temperature control dial  
 (3) Blower switch



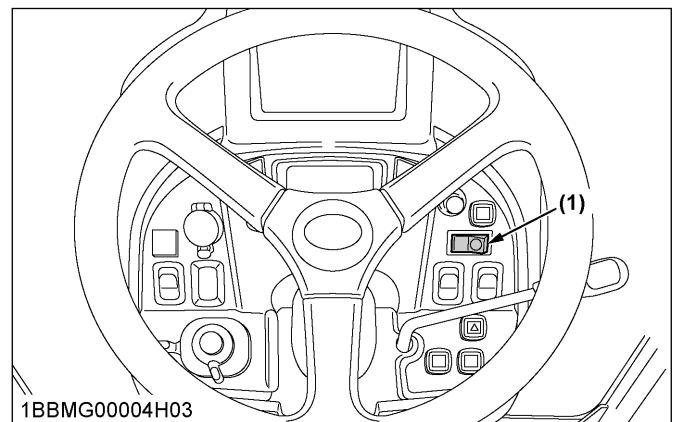
#### 4.4 Defrosting or demisting

To defrost or demist the windshield, take the following steps.

1. Set the mode switch to the [111] position.
2. Open the front air outlet and direct it to the windshield.
3. Set the recirculation or fresh air selection lever to the "FRESH AIR" position.
4. Set the blower switch and the temperature control dial to the [3] and max "WARM" (end of clockwise) positions, respectively.

#### REAR DEFOGGER

To activate the rear window defogger, press the switch marked [111] while the key switch is in the "ON" position. To turn the defogger off, push down the switch marked "OFF".



(1) Defogger switch

#### IMPORTANT :

- The battery will discharge if the defogger and the key switch remain in the "ON" positions with the engine stopped.

Always use the defogger with the engine running.

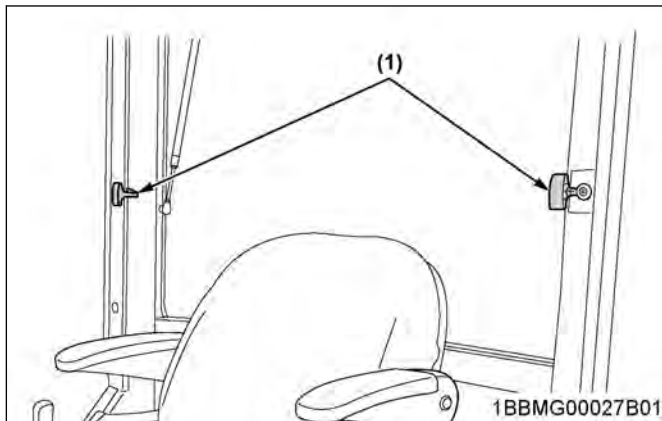
## HANGER

### CAUTION

To avoid personal injury:

- Do not hang anything that is heavier than 3 kg. The hanger may get damaged.
- Make sure anything hanging does not interfere with your operation.

Caps and other small objects can be hung.



(1) Hanger (both sides)



# 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   | Clogging of air conditioner condenser screen (CAB model) | Clean             |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           | Daily                    | 114                      |     |   |
| 2   | Engine oil   | Change            | ◎                        |     |     | ○   |     |     |     |     | ○   |     |     |     |     | ○        |           | every 200 hrs            | 123                      |     |   |
| 3   | Engine oil filter  | Replace           | ◎                        |     |     | ○   |     |     |     |     | ○   |     |     |     |     | ○        |           | every 200 hrs            | 122                      |     |   |
| 4   | Transmission oil filters                                 | Replace           | ◎                        |     |     | ○   |     |     |     |     | ○   |     |     |     |     | ○        |           | every 200 hrs            | 123                      |     |   |
| 5   | Hydraulic oil filter                                     | Replace           | ◎                        |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 128                      |     |   |
| 6   | Transmission fluid                                       | Change            |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 127                      |     |   |
| 7   | Front axle case oil                                      | Change            |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 130                      |     |   |
| 8   | Front axle pivot   | Adjust            |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 130                      |     |   |
| 9   | Engine start system                                      | Check             | ○                        | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○        | ○         | every 50 hrs             | 117                      |     |   |
| 10  | Greasing   | ---               | ○                        | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○        | ○         | every 50 hrs             | 116                      |     |   |
| 11  | Wheel bolt torque  | Check             | ○                        | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○   | ○        | ○         | every 50 hrs             | 118                      |     |   |
| 12  | Battery condition  | Check             |                          | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○        |           | every 100 hrs            | 118                      | *1  |   |
| 13  | Air cleaner element                                      | Primary element   | Clean                    |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |          | ○         | every 100 hrs            | 120                      | *2  | @ |
|     |  | Replace           |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           | every 1000 hrs or 1 year | 131                      | *3  |   |
|     |  | Secondary element | Replace                  |     |     |     |     |     |     |     |     |     |     |     |     |          |           |                          | every 1000 hrs or 1 year | 131 |   |
| 14  | Fuel filter element [LX2610/LX2610SU]                    | Clean             |                          | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○        |           | every 100 hrs            | 121                      |     | @ |
|     |  | Replace           |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 129                      |     |   |
| 15  | Fuel filter [LX3310]                                     | Replace           |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 129                      |     | @ |
| 16  | Water separator [LX3310]                                 | Replace           |                          |     |     |     |     |     |     |     | ○   |     |     |     |     |          |           | every 400 hrs            | 127                      |     |   |
| 17  | Fan belt   | Adjust            |                          | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○        |           | every 100 hrs            | 121                      |     |   |
| 18  | Brake  | Adjust            |                          | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○   |     | ○        |           | every 100 hrs            | 122                      |     |   |

(Continued)

## MAINTENANCE

| No | Items   |         | Indication on hour meter |     |     |     |     |     |     |     |     |     |     |     |     | Interval | Ref. page |   |  |     |  |  |  |                |               |     |    |
|----|---|---------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|---|--|-----|--|--|--|----------------|---------------|-----|----|
|    |   |         | 50                       | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 |          |           |   |  | 700 |  |  |  |                |               |     |    |
| 19 | Tension of air conditioner drive belt (CAB model) | Adjust  |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           | ○ |  |     |  |  |  | every 200 hrs  | 125           |     |    |
| 20 | Clogging of inner air filter (CAB model)          | Clean   |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 200 hrs  | 125           |     |    |
| 21 | Clogging of fresh air filter (CAB model)          | Clean   |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 200 hrs  | 126           |     |    |
| 22 | Clogging of air conditioner condenser (CAB model) | Check   |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 200 hrs  | 126           |     |    |
| 23 | Power steering oil line                           | Check   |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 200 hrs  | 124           |     |    |
|    |   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  |                | every 4 years | 135 | *4 |
| 24 | Radiator hose and clamp                           | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 133           | *5  |    |
|    |   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  |                | every 4 years | 135 | *4 |
| 25 | Fuel line   | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 134           | *5  | @  |
|    |   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  |                | every 4 years | 135 |    |
| 26 | Intake air line                                   | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 134           | *5  | @  |
|    |   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  |                | every 4 years | 135 |    |
| 27 | Toe-in  | Adjust  |                          |     |     | ○   |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 200 hrs  | 125           |     |    |
| 28 | Engine valve clearance                            | Adjust  |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 800 hrs  | 131           | *4  |    |
| 29 | Fuel injection nozzle Injection pressure          | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1500 hrs | 131           | *4  | @  |
| 30 | EGR cooler [LX3310]                               | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1500 hrs | 131           | *4  | @  |
| 31 | Injection pump [LX2610/LX2610SU]                  | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 3000 hrs | 133           | *4  | @  |
| 32 | EGR system [LX3310]                               | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 3000 hrs | 133           | *4  | @  |
| 33 | Supply pump [LX3310]                              | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 3000 hrs | 133           | *4  |    |
| 34 | DPF muffler [LX3310]                              | Clean   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 3000 hrs | 133           | *4  | @  |
| 35 | Turbocharger [LX3310]                             | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 3000 hrs | 133           | *4  |    |
| 36 | Exhaust manifold [LX3310]                         | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 133           |     | @  |
| 37 | Air conditioner pipes and hoses (CAB model)       | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 135           | *5  |    |
|    |   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  |                | every 4 years | 136 | *4 |
| 38 | CAB isolation cushion (CAB model)                 | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |          |           |   |  |     |  |  |  | every 1 year   | 135           | *4  |    |

(Continued)

| No. | Items                                      |         | Indication on hour meter |     |     |     |     |     |     |     |     |     |     |     |     |     | Interval | Ref. page |                           |     |    |
|-----|--|---------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|---------------------------|-----|----|
|     |  |         | 50                       | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |          |           |                           |     |    |
| 39  | Differential pressure sensor hose [LX3310] | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          |           | every 4 years             | 135 | *4 |
| 40  | Cooling system                             | Flush   |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          |           | every 2000 hrs or 2 years | 131 | *6 |
| 41  | Coolant                                    | Change  |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          |           | every 2000 hrs or 2 years | 132 | *6 |
| 42  | Fuel system                                | Bleed   |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          |           | Service as required       | 136 |    |
| 43  | Clutch housing water                       | Drain   |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 136       |                           |     |    |
| 44  | Fuse                                       | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 136       |                           |     |    |
| 45  | Light bulb                                 | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 139       |                           | *4  |    |
| 46  | Headlamp                                   | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 140       |                           |     |    |
| 47  | Lubricating points (CAB model)             | ---     |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 140       |                           |     |    |
| 48  | Washer liquid (CAB model)                  | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 140       |                           |     |    |
| 49  | Amount of refrigerant (gas) (CAB model)    | Check   |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 140       |                           |     |    |
| 50  | Radiator hose and clamp                    | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 141       |                           | *4  |    |
| 51  | Fuel line                                  | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 141       |                           | *4  |    |
| 52  | Intake air line                            | Replace |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 141       | *4                        |     |    |

\*1 When the battery is used for less than 100 hours per year, check the fluid level annually.

\*2 Air cleaner should be cleaned more often in severe dusty conditions. Operation with clogged air cleaner may cause regeneration failure and DPF damage.

\*3 Replace in 1000 hours or 1 year, whichever comes faster.

\*4 Consult your local KUBOTA Dealer for this service.

\*5 Replace if any deterioration (crack, hardening, scar or deformation) or damage occurred. However, must be replaced every 4 years regardless of the condition.

\*6 Replace in 2000 hours or 2 years, whichever comes faster.

**IMPORTANT :**

- The jobs indicated by © must be done after the first 50 hours of operation.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction. Please see Warranty Statement in detail.
- When using biodiesel, be sure to check the maintenance requirements of biodiesel fuel as the intervals will change for some of the items.

# LUBRICANTS, FUEL AND COOLANT

| No. | Locations                         | Capacities              |                         |                         |                         | Lubricants   |                               |
|-----|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|-------------------------------|
|     |                                   | ROPS                    |                         | CAB                     |                         |  |                               |
|     |                                   | LX2610<br>LX2610SU      | LX3310                  | LX2610                  | LX3310                  |  |                               |
| 1   | Fuel                              | 27 L<br>(7.1 U.S.gals.) |                         | 32 L<br>(8.4 U.S.gals.) |                         | No.2-D diesel fuel<br>No.1-D diesel fuel if temperature is below -10 °C<br>(14 °F) |                               |
| 2   | Coolant<br>(with recovery tank)   | 4.3 L<br>(4.5 U.S.qts.) |                         |                         |                         | Fresh clean water with antifreeze  |                               |
| 3   | Washer liquid                     | —                       |                         | 1.5 L<br>(1.6 U.S.qts.) |                         | Automobile washer liquid   |                               |
| 4   | Engine crankcase<br>(with filter) | 4.0 L<br>(4.2 U.S.qts.) | 4.7 L<br>(5.0 U.S.qts.) | 4.0 L<br>(4.2 U.S.qts.) | 4.7 L<br>(5.0 U.S.qts.) | • Engine oil: refer to the following table   |                               |
|     |                                   |                         |                         |                         |                         | Above 25 °C<br>(77 °F)   | SAE30,<br>SAE10W-30 or 15W-40 |
|     |                                   |                         |                         |                         |                         | -10 °C (14 °F) to<br>25 °C (77 °F)   | SAE20,<br>SAE10W-30 or 15W-40 |
| 5   | Transmission case                 | 15 L<br>(4.0 U.S.gals.) |                         |                         |                         | • <b>KUBOTA SUPER UDT-2</b> fluid  |                               |
|     |                                   | 4.7 L<br>(5.0 U.S.qts.) |                         |                         |                         | • <b>KUBOTA SUPER UDT-2</b> or SAE 80-SAE 90 gear oil                              |                               |
|     |                                   | No. of greasing points  |                         |                         |                         | Capacity   | Type of grease                |
| 7   | Top link                          | 1                       |                         | Until grease over-flow. |                         | Multipurpose grease<br><b>NLGI-2</b> or <b>NLGI-1 (GC-LB)</b>                      |                               |
|     | Lifting rod (RH)                  | 1                       |                         | Moderate amount         |                         |  |                               |
|     | Speed control pedal               | —                       |                         | 1                       |                         |  |                               |
|     | Brake pedal                       | 1                       |                         | —                       |                         |  |                               |
|     | Battery terminals                 | 2                       |                         | —                       |                         |  |                               |

**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.

**Engine oil**

- The oil used in the engine should have an American Petroleum Institute (API) service classification and proper SAE engine oil according to the ambient temperatures shown in the previous table.
- Refer to the following table for the suitable API classification engine oil according to the diesel particulate filter (DPF) type engines and the fuel.

| Fuel used                                  | Engine oil classification (API classification)                |  |
|--|---|--|
|  | Oil class of engines except external DPF<br>[LX2610/LX2610SU] | Oil class of engines with external DPF<br>[LX3310] |
| Ultra low sulfur fuel<br><0.0015% (15 ppm) | CF, CF-4, CG-4, CH-4 or CI-4                                  | CJ-4   |

- The CJ-4 engine oil is intended for diesel particulate filter (DPF) type engines.

**Fuel**

- Use the ultra-low sulfur diesel fuel only (below 0.0015% or 15 ppm) for these engines.
- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.

- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service (SAE J313 JUN87).

**Transmission oil**

\***KUBOTA SUPER UDT2**: For an enhanced ownership experience, we highly recommend **SUPER UDT2** to be used instead of standard hydraulic and transmission fluid.

**SUPER UDT2** is a proprietary Kubota formulation that delivers superior performance and protection in all operating conditions.

Regular UDT is also permitted for use in this machine.

**Indicated capacities of water and oil are manufacturer's estimate.**

## 1. Biodiesel fuel (BDF) B0-B20

B0-B20 Biodiesel fuels (BDF): mixed diesel fuels containing 20% or less biodiesel can be utilized under the following conditions.

### IMPORTANT :

- **Refueling and handling fuel should be done with caution in order to avoid contact with the fuel and spillage that could create a potential environmental or fire hazard. Wear appropriate protective equipment when refueling.**

### Applicable BDF:

1. Blended diesel fuels containing 6% through 20% BDF (B6 - B20) which comply with American Society for Testing and Materials (ASTM) D7467 Standard, as revised, can be used without adversely affecting the performance and durability of the engine and fuel system components.
2. Any mineral oil diesel fuel, if used, must conform to ASTM D975 (or the European EN590) Standard, as revised. B100 fuel used to make Biodiesel blended fuels must meet ASTM D6751 (or EN14214) Standard, as revised. The final blended fuel B20 must conform to ASTM D7467 Standard, as revised. Straight vegetable oil is not allowed in any blended fuel.
3. Allowable blended fuel is mineral oil diesel fuel blended with B100 (meaning, 100% BDF). The blended fuel ratio shall be less than 20% B100 and 80% or more diesel fuel. The B100 source used for Biodiesel blends must be purchased from an accredited BQ-9000 marketer or producer. More information about qualified marketer(s) and producer(s) can be found at <http://www.bq-9000.org>.

### Preparation:

1. Before using BDF concentrations greater than B5, you are advised to replace the engine oil, engine oil filter and fuel filter with new oil and filters. Details regarding the replacement procedures can be found in a different section. (See Changing engine oil on page 123, Replacing engine oil filter on page 122, Replacing fuel filter [LX2610/LX2610SU] on page 129, and Replacing fuel filter [LX3310] on page 129.)

### Product warranty, emission and other precautions:

1. The engine emission control system was certified according to current regulations based on the use of non-BDF. When using BDF, the owner is advised to check applicable local and federal emission regulations and comply with all of them.
2. BDF may cause restricted or clogged fuel filters during cold weather conditions, resulting in the engine not operating properly.
3. BDF encourages the growth of microorganisms which may cause degradation of the fuel. This in turn may cause fuel line corrosion or reduce fuel filter flow earlier than expected.
4. BDF inherently absorbs moisture which may cause degradation of the fuel earlier than expected. To avoid this, drain the water separator and fuel filter port often.
5. Do not use Biodiesel concentrations higher than 20% (namely, greater than B20). Engine performance and fuel consumption will be affected, and degradation of the fuel system components may occur.
6. Do not readjust the engine fuel control system as this will violate emission control levels for which the equipment was approved.
7. Compared with soybean-based and rapeseed-based feedstock, palm oil-based feedstock has a thicker consistency (that is, higher viscosity) at lower temperatures. Consequently, fuel filter performance may be reduced, particularly during cold weather conditions.
8. The KUBOTA Warranty, as specified in the owner's warranty information guide, only covers defects in product materials and workmanship. Accordingly, any problems that may arise due to the use of poor quality fuels that fail to meet the above requirements, whether biodiesel or mineral oil based, are not covered by the KUBOTA Warranty.

### Routine handling:

1. Avoid spilling BDF onto painted surfaces as this may damage the finish. If fuel is spilled immediately wipe clean and flush with soapy water to avoid permanent damage.
2. When using BDF, you are advised to maintain a full tank of fuel, especially overnight and during short term storage, to reduce condensation within the tank. Be sure to tighten the fuel cap after refueling to prevent moisture build up within the tank. Water in the biodiesel mixture will damage fuel filters and may damage engine components.

**Maintenance requirements when using BDF B0 through B5:**

Follow the recommended oil change intervals. (See MAINTENANCE on page 103.)

Extended oil change intervals may result in premature wear or engine damage.

**Maintenance requirements when using BDF B6 through B20:**

The maintenance intervals for fuel related parts changes.

See the following table for the new maintenance intervals.

| Items       |         | Interval       | Remarks  |
|-------------|---------|----------------|--|
| Fuel filter | Clean   | Every 50 hrs   | LX2610 or LX2610SU only  |
|             | Replace | Every 200 hrs  | All models   |
| Fuel line   | Check   | Every 6 months | Replace if any deterioration (crack, hardening, scar or deformation) or damage occurred. |
|             | Replace | Every 2 years  | Consult your local KUBOTA Dealer for this service.                                       |

**Long term storage:**

1. BDF easily deteriorates due to oxygen, water, heat and foreign substances.  
Do not store B6 through B20 longer than 1 month and B5 longer than 3 months.
2. When using B6 through B20 and storing the machine longer than 1 month, drain the fuel from the tanks and replace with light mineral oil diesel fuel.  
Subsequently, run the engine at least 30 minutes to remove all of the Biodiesel from the fuel lines.
3. When using B5 fuel and storing machine longer than 3 months, drain the fuel from the tanks and replace with light mineral oil diesel fuel.  
Subsequently, run the engine at least 30 minutes to remove all of the Biodiesel from the fuel lines.

# PERIODIC SERVICE

## WARNING

To avoid personal injury or death:

- Do not work under any hydraulically supported devices. They can settle, suddenly leak, or be accidentally lowered. If necessary to work under the tractor or any machine elements for servicing or adjustments, securely support them with stands or suitable blocking beforehand.

## WASTE DISPOSAL

- The improper disposal or burning of waste causes environmental pollution and can be punishable by your local laws and regulations.
  - When draining fluids from the tractor, place a container underneath the drain port.
  - Do not pour waste onto the ground, down a drain, or into any water source (such as rivers, streams, lakes, marshes, seas and oceans).
  - Waste products such as used oil, fuel, coolant, hydraulic fluid, urea aqueous solution (DEF/AdBlue®), refrigerant, solvent, filters, rubber, batteries and harmful substances, can harm the environment, people, pets and wildlife. Please dispose properly. See your local recycling center or KUBOTA Dealer to learn how to recycle or get rid of waste products.

## HOW TO OPEN THE HOOD

## WARNING

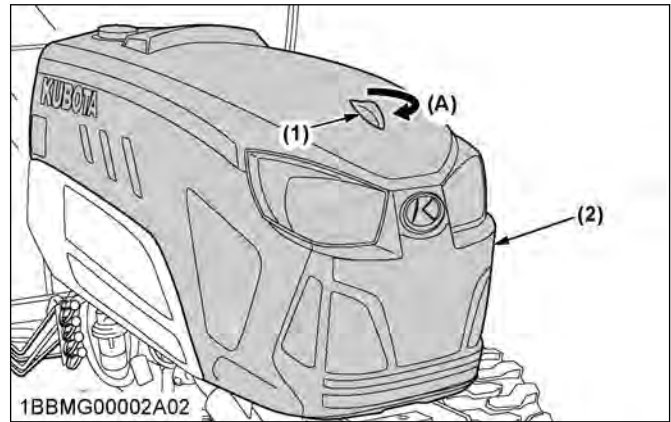
To avoid personal injury or death from contact with moving parts:

- Never open the hood or engine side cover while the engine is running.
- Do not touch the muffler or exhaust pipes while they are hot; severe burns could result.
- Support hood with other hand while unlocking support rod.

### 1. Hood

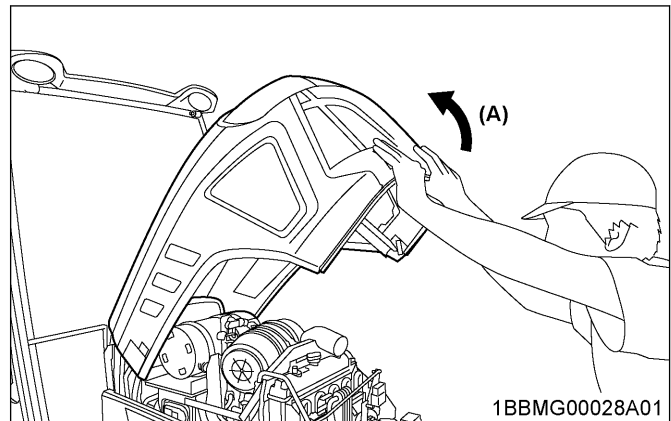
#### 1.1 Open the hood

1. Twist the mascot.



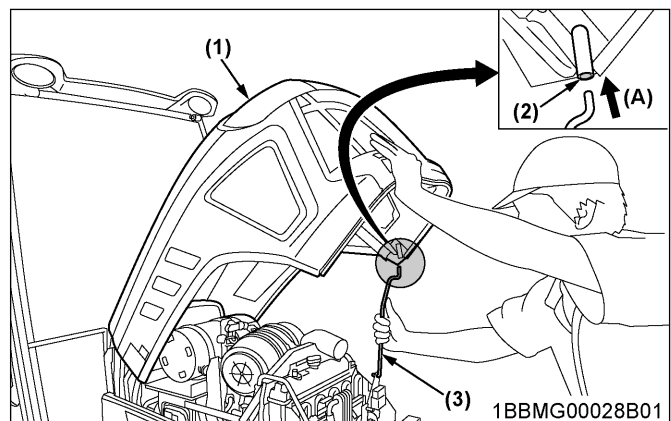
(1) Mascot (A) "TWIST"  
(2) Hood

2. Open the hood by holding its bottom with both hands.



(A) "OPEN"

3. Hold the hood and insert the support rod to the mounting hole.

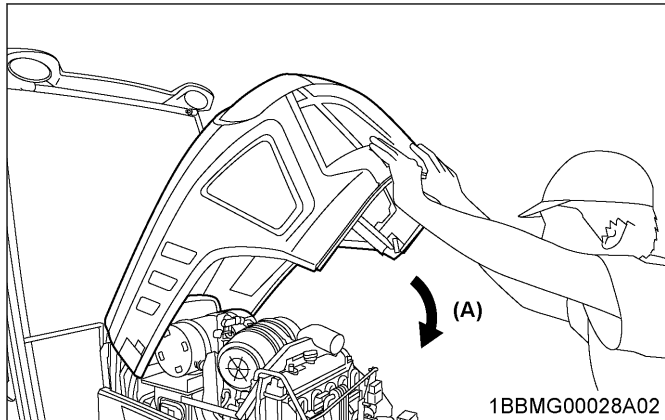


(1) Hood (A) "INSERT"  
(2) Mounting hole  
(3) Support rod



### 1.2 Close the hood

1. To close the hood, hold the hood and release the support rod.
2. In closing the hood, use both hands again.

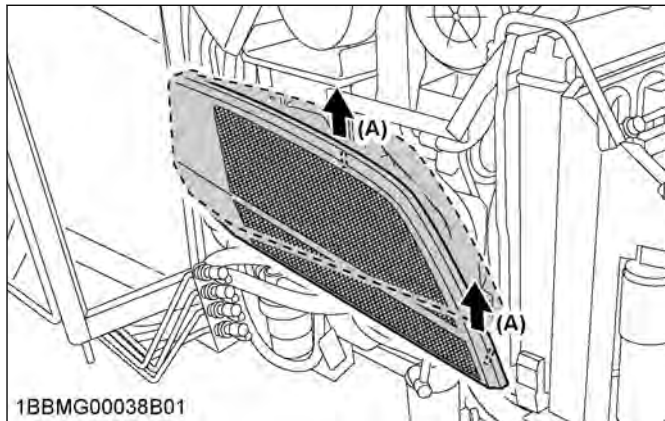


(A) "CLOSE"

### 2. Engine side cover

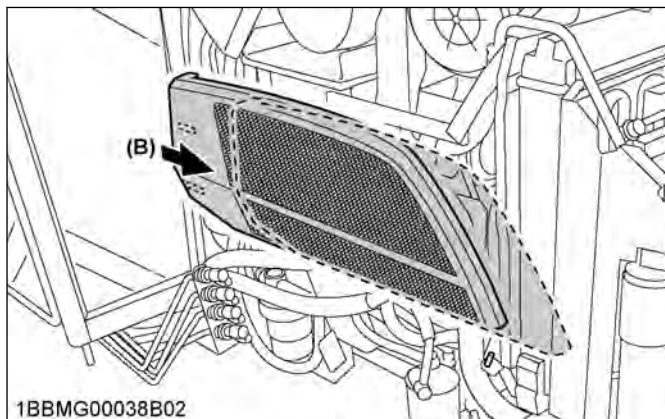
#### Remove the side cover

1. Pull up the cover toward "A".



(A) "PULL UP"

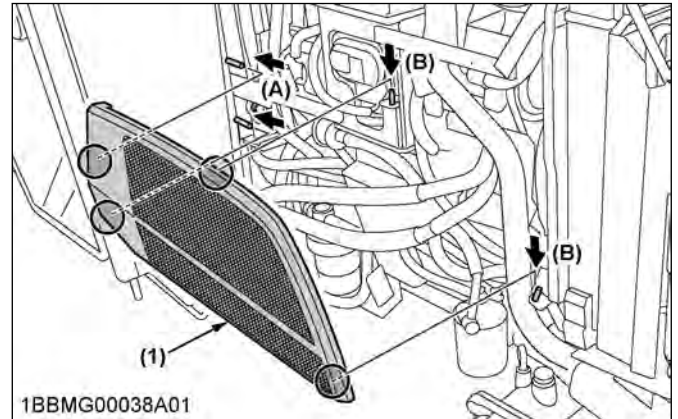
2. Pull the cover toward "B" and detach the notch.



(B) "PULL"

#### Attaching the side cover

1. To attach the cover, take the reverse order.



(A) "INSERT"

(B) "INSERT"

### DAILY CHECK

For your own safety and maximum service life of the machine, make a thorough daily inspection before operating the machine to start the engine.

#### **!** WARNING

To avoid personal injury or death: Take the following precautions when checking the tractor.

- Park the machine on firm and level ground.
- Set the parking brake.
- Lower the implement to the ground.
- Release all residual pressure from the hydraulic system.
- Stop the engine and remove the key.

### 1. Walk around inspection

Look around and under the tractor for items such as loose bolts, trash build-up, oil or coolant leaks, broken or worn parts.

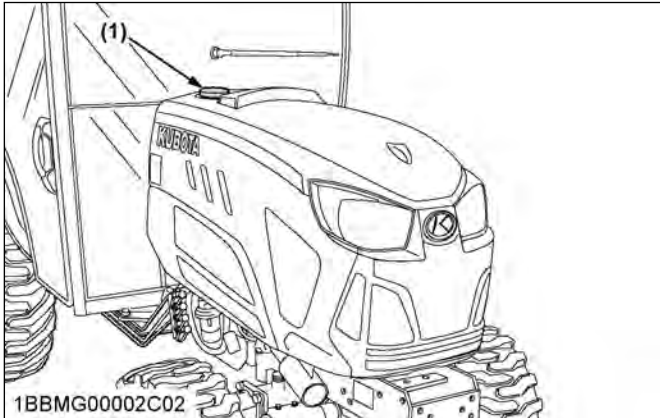
### 2. Checking and refueling

#### **!** WARNING

To avoid personal injury or death:

- Do not smoke while refueling.
- Be sure to stop the engine before refueling.
- Never use fire.
- Be sure to close the fuel tank cap after refueling.
- For refueling, avoid parking the tractor in any place with straws, weeds and other flammable things below and around.

1. Turn the key switch to "ON", check the amount of fuel by fuel gauge.
2. Fill fuel tank when fuel gauge shows 1/4 or less fuel in tank.
3. Use grade No.2-Diesel fuel at temperatures above -10 °C (14 °F). Use grade No.1-Diesel fuel at temperatures below -10 °C (14 °F).
4. After refueling, close the fuel tank cap tight enough.



(1) Fuel tank cap

**Fuel tank capacity**

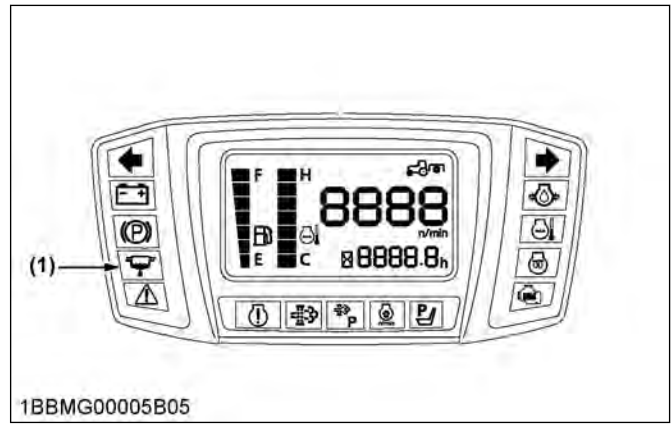
|      |                      |
|------|----------------------|
| ROPS | 27 L (7.1 U.S.gals.) |
| CAB  | 32 L (8.4 U.S.gals.) |

**IMPORTANT :**

- Do not permit dirt or trash to get into the fuel system.
- Be careful not to let the fuel tank become empty. Otherwise, air will enter the fuel system, necessitating bleeding before the next engine start.
- Be careful not to spill during refueling. If a spill occurs wipe it off at once or it may cause a fire.
- To prevent condensation (water) accumulation in the fuel tank, fill the tank before parking overnight.
- Check to see if the fuel tank cap is tight enough.
- Before refueling, make sure there is no flames around and remove static electricity.

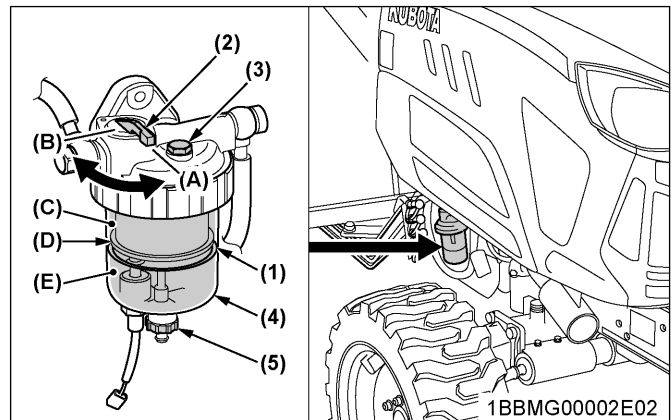
**3. Checking water separator [LX3310]**

1. When the water has collected up to the upper limit in the water separator, the water separator indicator on the instrument panel lights up and a warning buzzer sounds.



(1) Water separator indicator

2. In this case, close the fuel shutoff-valve and loosen the air plug and drain plug by several turns.
3. Allow the water to drain. When no more water comes out and fuel starts to flow out, retighten the air plug and drain plug.
4. Bleed the fuel system. (See Bleeding fuel system on page 136.)



- |                        |                   |
|------------------------|-------------------|
| (1) Red float          | (A) "OPEN"        |
| (2) Fuel shutoff-valve | (B) "CLOSE"       |
| (3) Air plug           | (C) "FUEL"        |
| (4) Cup                | (D) "UPPER LIMIT" |
| (5) Drain plug         | (E) "WATER"       |

**IMPORTANT :**

- If water is drawn through to the fuel pump, extensive damage will occur.

**NOTE :**

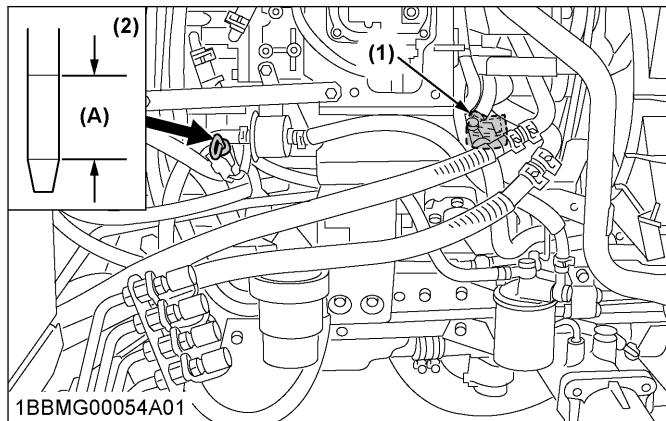
- When the red float reaches near the upper limit level, start from step 2 in the above procedure to drain water from the water separator.

**4. Checking engine oil level**

**! WARNING**  
To avoid personal injury or death:

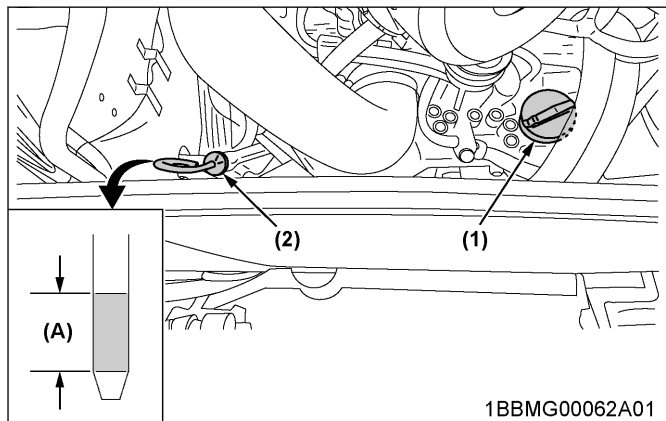
- **Be sure to stop the engine before checking the oil level.**
1. Park the machine on a flat surface.
  2. Check the engine oil before starting the engine or 5 minutes or more after the engine has stopped.
  3. To check the oil level, pull out the dipstick, wipe it clean, replace it, and pull it out again. Check to see that the oil level lies within the crosshatched area. If the level is too low, add new oil to the prescribed level at the oil inlet.  
(See LUBRICANTS, FUEL AND COOLANT on page 106.)

[LX3310]



(1) Oil inlet  
(2) Dipstick  
(A) Oil level is acceptable within this range.

[LX2610/LX2610SU]



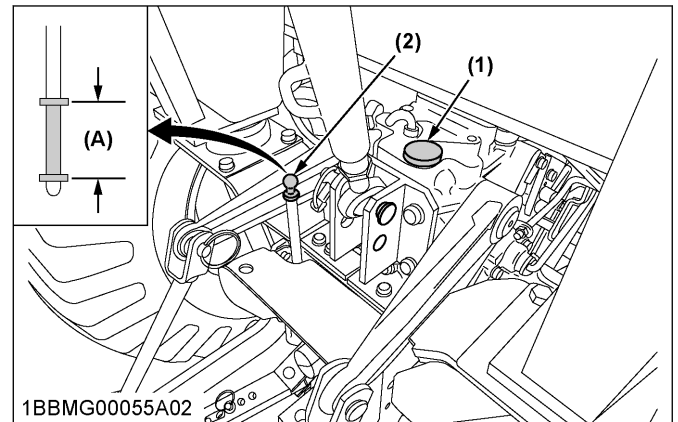
(1) Oil inlet  
(2) Dipstick  
(A) Oil level is acceptable within this range.

**IMPORTANT :**

- **When using an oil of different manufacturer or viscosity from the previous one, remove all of the old oil. Never mix 2 different types of oil.**
- **If the oil level is low, do not run the engine.**
- **In adding engine oil, use a funnel or the like, which could prevent the oil from getting splashed on hot spots.**

## 5. Checking transmission fluid level

1. Park the machine on a flat surface, lower the implement and shut off the engine.
2. To check the oil level, pull out the dipstick, wipe it clean, replace it, and pull it out again. Check to see that the oil level lies within the crosshatched area. If the level is too low, add new oil to the prescribed level at the oil inlet.  
(See LUBRICANTS, FUEL AND COOLANT on page 106.)



(1) Oil inlet  
(2) Dipstick  
(A) Oil level is acceptable within this range.

**IMPORTANT :**

- **If the oil level is low, do not run the engine.**

## 6. Checking coolant level

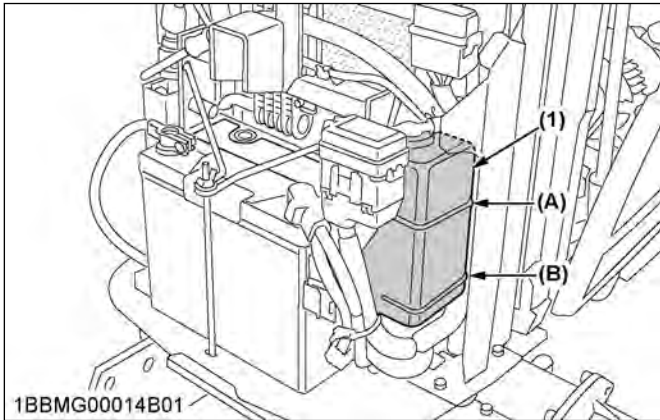
**⚠ WARNING**

To avoid personal injury or death:

- **Do not remove the radiator cap while the coolant is hot. When cool, slowly rotate the cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.**

1. Check to see that the coolant level is between the [FULL] and [LOW] marks of the recovery tank.

- When the coolant level drops due to evaporation, add soft water only up to the full level. In case of leakage, add antifreeze and soft water in the specified mixing ratio up to the full level. (See Flushing cooling system and changing coolant on page 131.)



(1) Recovery tank

(A) [FULL]  
(B) [LOW]

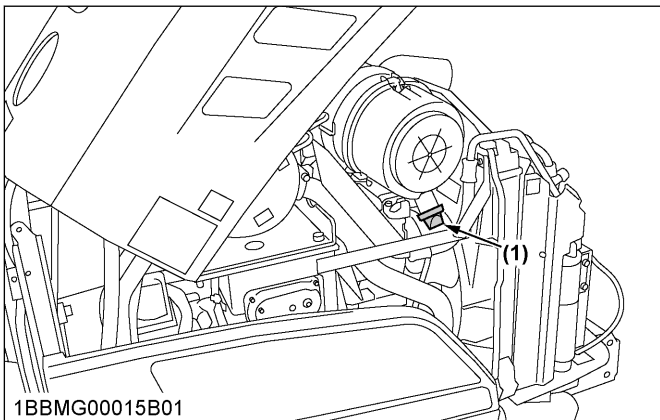
**IMPORTANT :**

- If the radiator cap has to be removed, follow the caution above and securely retighten the cap.
- Use clean and fresh soft water, and antifreeze to fill the recovery tank.
- If coolant should leak, consult your local KUBOTA Dealer.

### 7. Cleaning evacuator valve

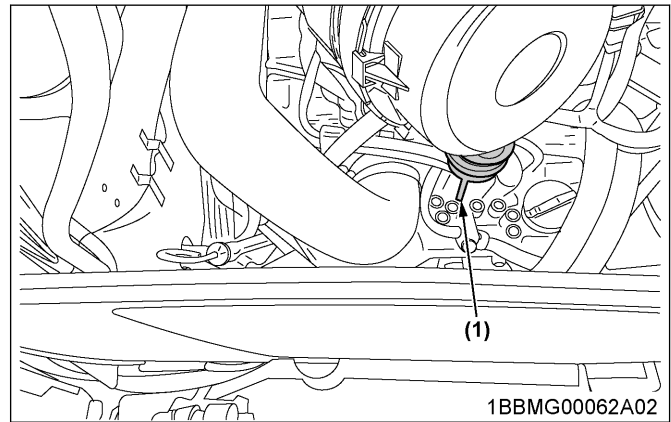
Open the evacuator valve to get rid of large particles of dust and dirt.

[LX3310]



(1) Evacuator valve

[LX2610/LX2610SU]



(1) Evacuator valve

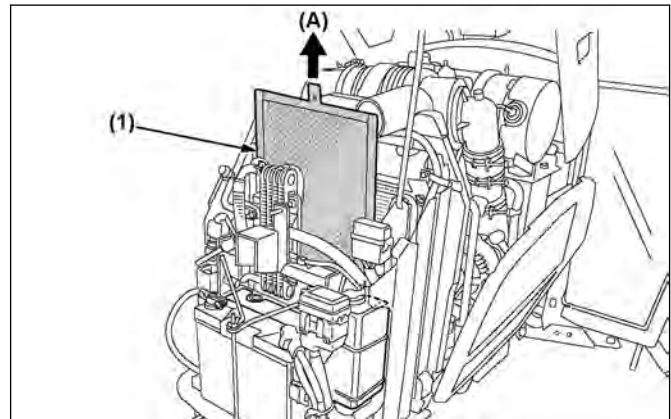
### 8. Cleaning air conditioner condenser screen (CAB model)

**! WARNING**

To avoid personal injury or death:

- Be sure to stop the engine before removing the screen.
- The condenser and receiver become hot while the air conditioner is running. Before checking or cleaning them, wait long enough until they cool down.

- Detach the air conditioner condenser screen and remove all foreign materials.



(1) Air conditioner condenser screen (A) "DETACH" screen

**IMPORTANT :**

- Grill and screen must be clean from debris to prevent engine from overheating and to allow good air intake for air cleaner.

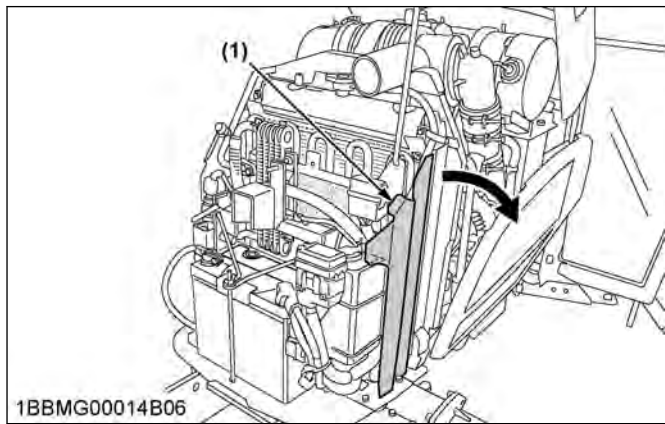
## 9. Cleaning grill and radiator screen

### **⚠ WARNING**

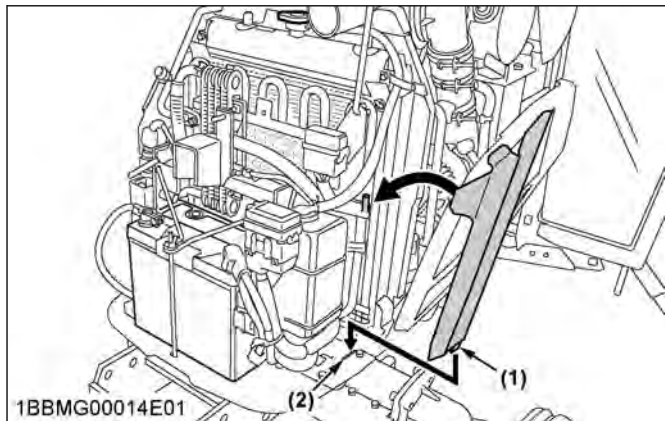
To avoid personal injury or death:

- Be sure to stop the engine and remove the key before removing the screen.
- The condenser and receiver become hot while the air conditioner is running. Before checking or cleaning them, wait long enough until they cool down.

1. Check front grill and side screens to be sure they are clean of debris.
2. Pull the panel upward and outward. Raise the panel until the tip clears the hole, and take out the panel.

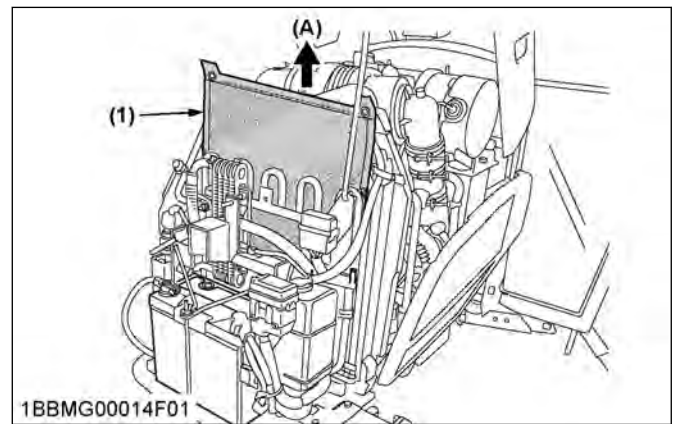


(1) Panel



(1) Tip  
(2) Hole

3. Detach the screen and remove all foreign materials and clean the front of radiator completely.



(1) Radiator screen

(A) "DETACH"

### **IMPORTANT :**

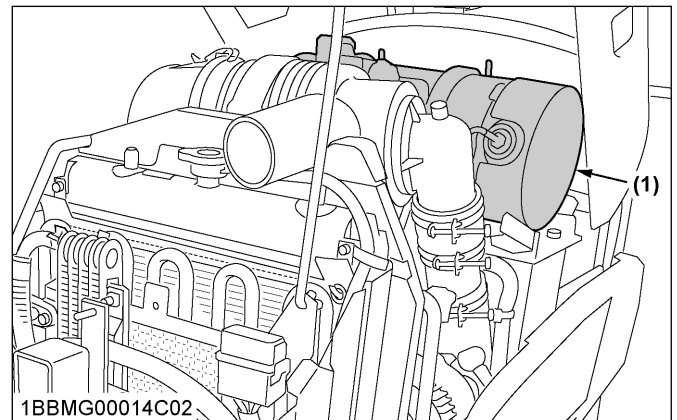
- Grill and screen must be clean from debris to prevent engine from overheating and to allow good air intake for the air cleaner.
- Do not operate the tractor with the panel detached from the battery mount.

## 10. Checking DPF muffler [LX3310]

### **⚠ WARNING**

To avoid personal injury or death:

- Before checking or cleaning the DPF muffler, stop the engine and wait until it is cooled down enough.
- Check the DPF muffler and its surroundings for a buildup of anything flammable. Otherwise, a fire may result.



(1) DPF muffler

## 11. Checking brake pedal

1. Inspect the brake for free travel and smooth operation.
2. Adjust if incorrect measurement is found.  
(See Adjusting brake pedal on page 122.)

## 12. Checking gauges, meter and Easy Checker™

1. Inspect the instrument panel for broken gauge(s), meter(s) and Easy Checker™ indicators.
2. Replace if broken.

## 13. Checking headlight, hazard light, and so on

1. Inspect the lights for broken bulbs and lenses.
2. Replace if broken.

## 14. Checking seat belt and ROPS

1. Always check the condition of the seat belt and ROPS attaching hardware before operating the tractor.
2. Replace if damaged.

## 15. Checking and cleaning of electrical wiring and battery cables

### WARNING

To avoid personal injury or death:

- A loose terminal or connector, or a damaged wire may affect the performance of the electrical components or cause short circuits. Leakage of electricity could result in a fire hazard, a dead battery or damage to electrical components.
- Replace the damaged wires or connections promptly.
- If a fuse blows soon after replacement, do not use a larger than recommended fuse or bypass the fuse system.
- Many wiring connections are protected by waterproof plugs. Plug and unplug these connections carefully and make sure they are sealed correctly after assembly.
- Accumulation of dust, chaff or spilled fuel deposits around the battery, electrical wiring, engine or exhaust system may cause a fire hazard. Clean these areas before starting the work.

To avoid the premature electrical malfunctioning, do not apply high pressure water directly to battery, wiring, connectors, electrical components or instrument panel.

### Inspect the following regularly

1. Check the wiring for chafed or cracked insulation.
2. Check the wiring harness clamps. Replace if necessary.

3. Check the connectors and terminals for looseness, contamination or overheated (discolored) connections.
4. Check the instrument panel for correct operation of the switches and gauges.

Consult your KUBOTA Dealer regarding maintenance, diagnosis and repair.

## 16. Checking movable parts

If any of the movable parts, such as levers and pedals, are not moving smoothly because of rust or sticky material, do not attempt to force them into motion.

In the above case, remove the rust or the sticky material and apply oil or grease to the relevant spot. Otherwise, the machine may be damaged.

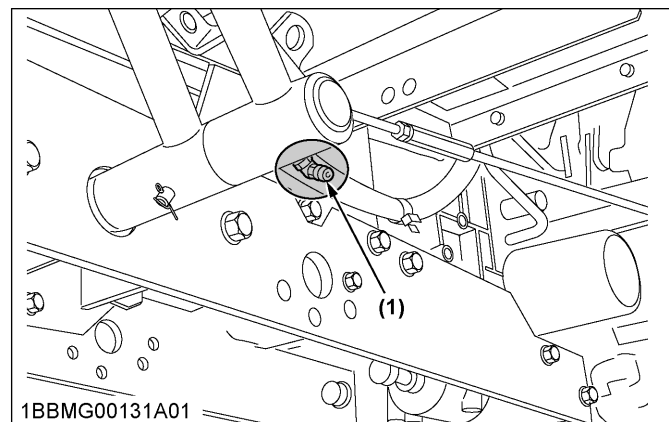
## EVERY 50 HOURS

### 1. Lubricating grease fittings

Apply a small amount of multipurpose grease to the following points every 50 hours.

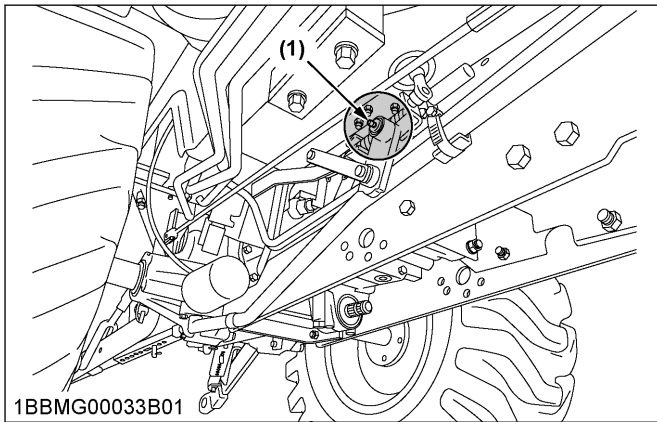
If you have been operating the machine in extremely wet and muddy conditions, lubricate the grease fittings more often.

#### ROPS model



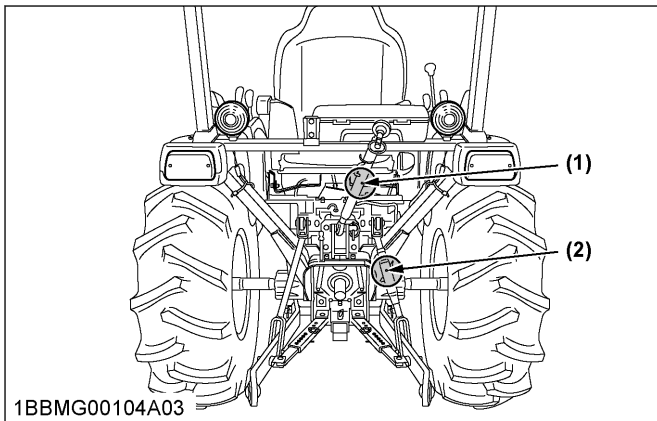
(1) Grease fitting (brake pedal)

**CAB model**



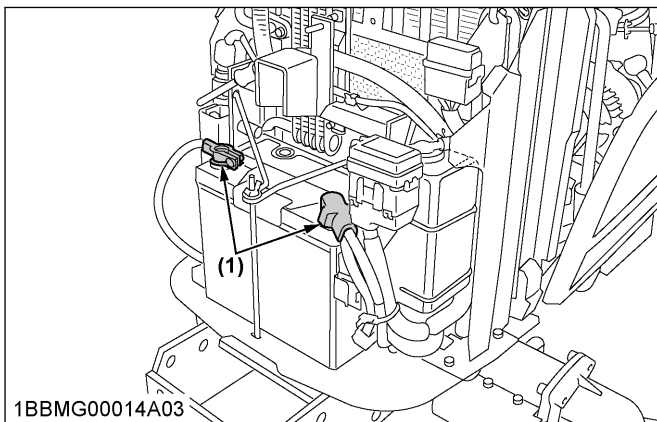
(1) Grease fitting (speed control pedal)

**All models**



(1) Grease fitting (top link)  
(2) Grease fitting (lifting rod, right)

**All models**



(1) Battery terminals

**2. Checking engine start system**

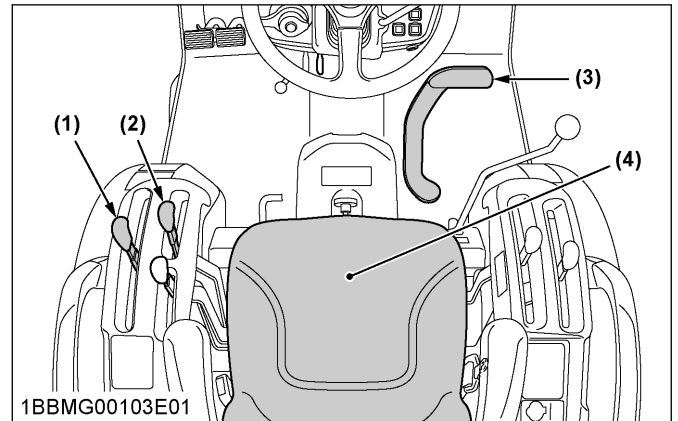
**⚠ WARNING**

To avoid personal injury or death:

- Do not allow anyone near the tractor while testing.
- If the tractor does not pass the test, do not operate the tractor.

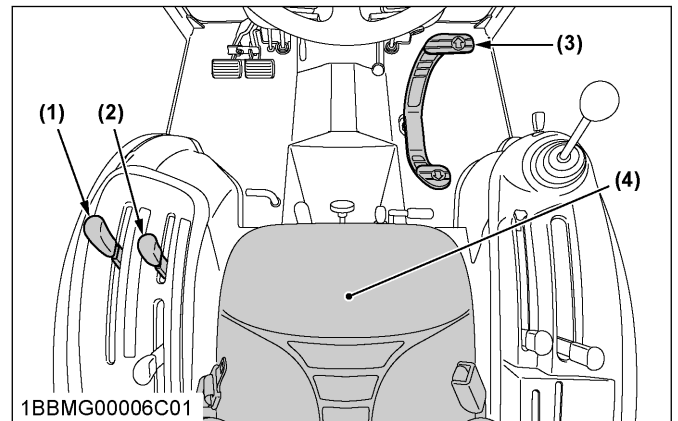
- Detach an implement before testing.

**ROPS model**



(1) Range gear shift lever  
(2) PTO clutch lever  
(3) Speed control pedal  
(4) Operator's seat

**CAB model**



(1) Range gear shift lever  
(2) PTO clutch lever  
(3) Speed control pedal  
(4) Operator's seat

**Preparation before testing**

1. Sit on operator's seat.
2. Set the parking brake and stop the engine.
3. Shift the range gear shift lever to "NEUTRAL" position.
4. Place the speed control pedal in "NEUTRAL" position.
5. Shift the PTO clutch lever to "OFF" position.

**Testing switch for the speed control pedal**

1. Depress the speed control pedal.
2. Turn the key to "START" position.
3. The engine must not crank.
4. If it cranks, consult your local KUBOTA Dealer for this service.

**Testing switch for the PTO clutch lever**

1. Place the speed control pedal in "NEUTRAL" position.
2. Shift the PTO clutch lever to "ON" position.

3. Turn the key to "START" position.
4. The engine must not crank.
5. If it cranks, consult your local KUBOTA Dealer for this service.

**Testing switches for the operator's seat and the PTO clutch lever**

1. Sit on the operator's seat.
2. Start the engine.
3. Shift the PTO clutch lever to "ON" position.
4. Release the parking brake.
5. Stand up. (Do not get off the tractor.)
6. The engine must shut off after approximately 1 second.
7. If it does not stop, consult your local KUBOTA Dealer for this service.

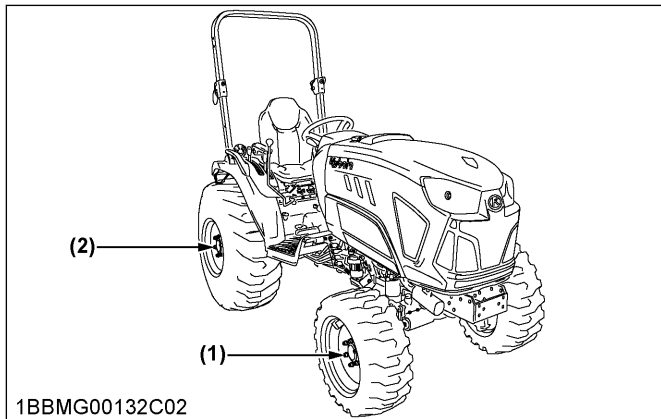
**3. Checking wheel bolt torque**

**⚠ WARNING**  
 To avoid personal injury or death:

- Never operate the tractor with a loose rim, wheel or axle.
- Any time bolts and nuts are loosened, retighten to the specified torque.
- Check all bolts and nuts frequently and keep them tight.

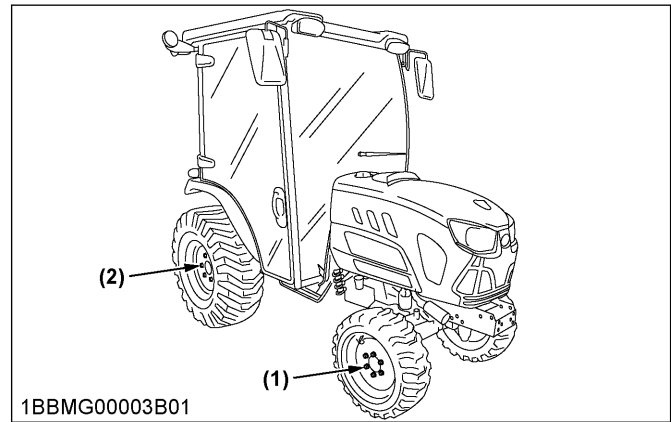
Check wheel bolts and nuts regularly, especially when new. If they are loose, tighten them as follows.

**ROPS model**



- (1) Nut: 77 to 90 N · m / 7.9 to 9.2 kgf · m / 57 to 67 ft · lbs
- (2) Bolt: 196 to 225 N · m / 20 to 23 kgf · m / 145 to 166 ft · lbs  
 Nut: 167 to 191 N · m / 17 to 19.5 kgf · m / 123 to 141 ft · lbs

**CAB model**



- (1) Nut: 77 to 90 N · m / 7.9 to 9.2 kgf · m / 57 to 67 ft · lbs
- (2) Bolt: 196 to 225 N · m / 20 to 23 kgf · m / 145 to 166 ft · lbs  
 Nut: 167 to 191 N · m / 17 to 19.5 kgf · m / 123 to 141 ft · lbs

**EVERY 100 HOURS**

**1. Checking battery condition**

**⚠ DANGER**  
 To avoid the possibility of battery explosion:  
 For the refillable type battery, follow the instructions below.

- Do not use or charge the refillable type battery if the fluid level is below the [LOWER] (lower limit level) mark. Otherwise, battery component parts may prematurely deteriorate, which may shorten the battery's service life or cause an explosion. Check the fluid level regularly and add distilled water as required so that the fluid level is between the [UPPER] and [LOWER] levels.

**⚠ WARNING**  
 To avoid personal injury or death:

- Never remove the battery cap while the engine is running.
- Keep electrolyte away from eyes, hands, and clothes. If you are spattered with it, wash it away completely with water immediately and get medical attention.
- Keep open sparks and flames away from the battery at all times. Hydrogen gas mixed with oxygen becomes very explosive.
- Wear eye protection and rubber gloves when working around the battery.

**NOTE :**

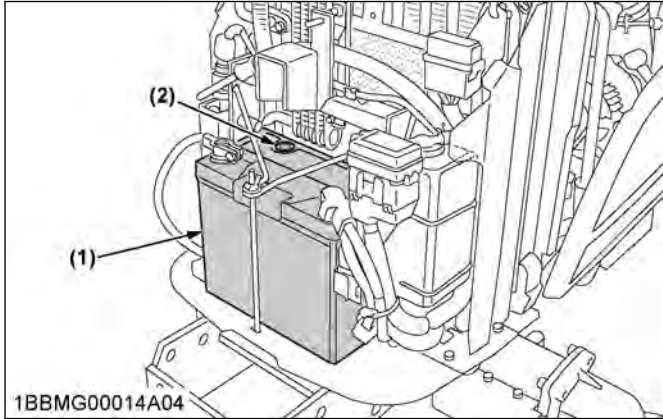
- The factory-installed battery is a non-refillable type. If the indicator turns white, do not charge the battery but replace it with a new one.



Mishandling the battery shortens the service life and adds to maintenance costs.

The original battery is maintenance-free, but needs some servicing.

If the battery is weak, the engine will be difficult to start, and the lights will be dim. It is important to check the battery periodically.



(1) Battery  
(2) Indicator

### 1.1 How to read indicator

Check the battery condition by reading the indicator.

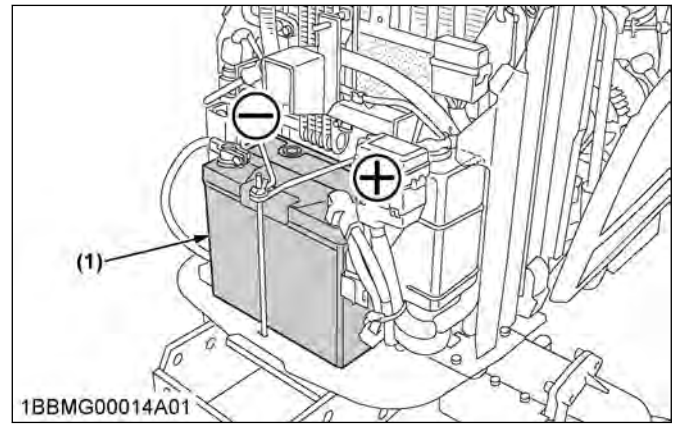
|       |  |
|-------|--|
| Green | Specific gravity of electrolyte and quality of electrolyte are both in good condition. |
| Black | Battery needs charging.  |
| White | Battery needs replacing.   |

### 1.2 Charging the battery

#### WARNING

To avoid personal injury or death:

- When the battery is being activated, hydrogen and oxygen gases in the battery are extremely explosive. Keep open sparks and flames away from the battery at all times, especially when charging the battery.
- When charging the battery, ensure the vent caps are securely in place (if equipped).
- When disconnecting the cable from the battery, start with the negative terminal first. When connecting the cable to the battery, start with the positive terminal first.
- Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.



(1) Battery

1. To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
2. A boost charge is only for emergencies. It will partially charge the battery at a high rate and in a short time. When using a boost-charged battery, it is necessary to recharge the battery as early as possible. Failure to do this will shorten the battery's service life.
3. The battery is charged when the indicator display turns from black to green.
4. When exchanging an old battery for a new one, use a battery of equivalent specification to those shown in the following table.

#### [Except LX3310HSDCC]

| Battery type | Volts (V) | Capacity at 5 hr (A.H) | Re-serve capacity (min) | Cold cranking amps (A) | Normal charging rate (A) |
|--------------|-----------|------------------------|-------------------------|------------------------|--------------------------|
| 55B24L(S)-MF | 12        | 36                     | 80                      | 430                    | 4.5                      |

#### [LX3310HSDCC]

| Battery type | Volts (V) | Capacity at 5 hr (A.H) | Re-serve capacity (min) | Cold cranking amps (A) | Normal charging rate (A) |
|--------------|-----------|------------------------|-------------------------|------------------------|--------------------------|
| 55B24L(S)-MF | 12        | 46                     | 90                      | 480                    | 4.5                      |

### 1.3 Directions for battery storage

1. When storing the tractor for long periods of time, remove the battery from the tractor, adjust the electrolyte to the proper level and store in a dry place out of direct sunlight.

- The battery self-discharges while it is stored. Recharge it once every 3 months in hot seasons and once every 6 months in cold seasons.

## 2. Cleaning air cleaner primary element

### WARNING

To avoid personal injury or death:

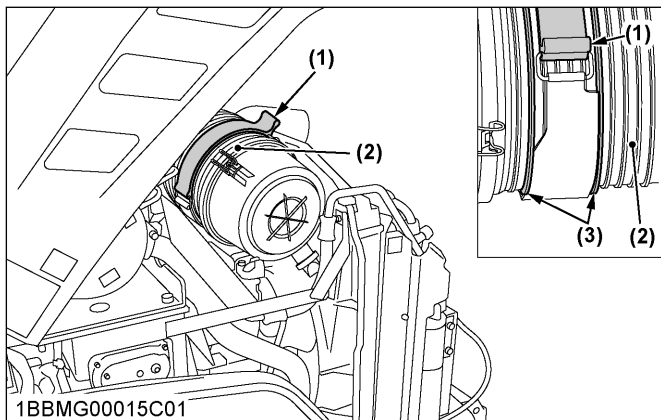
- Be sure to stop the engine and remove the key before cleaning air filter element.

- Unhook air cleaner band and lift body. [LX3310 only]
- Remove the air cleaner cover and primary element.
- Clean the primary element:
  - 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/cm<sup>2</sup>, 30 psi).
  - 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 the element has fully dried, inspect inside of the element with a light and check for damage.
- Replace the air cleaner primary element: Every 1000 hours or once yearly, whichever comes first.
- Fit the 2 convex parts of air cleaner to the bracket end. [LX3310 only]

#### NOTE :

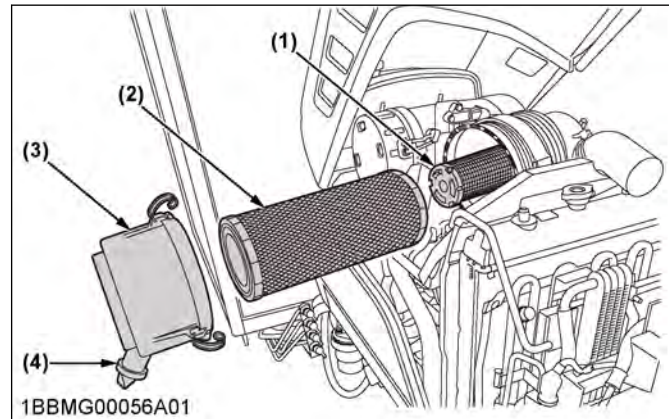
- Check to see if the evacuator valve is blocked with dust.

#### [LX3310]



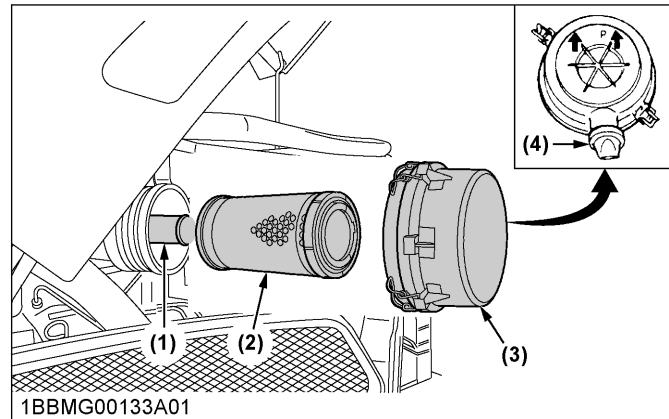
- Air cleaner band
- Body
- Convex part

#### [LX3310]




- Secondary (safety) element
- Primary element
- Cover
- Evacuator valve

#### [LX2610/LX2610SU]



- Secondary (safety) element
- Primary element
- Cover
- Evacuator valve

#### IMPORTANT :

- The air cleaner uses a dry element; never apply oil.
- Do not run the engine with the filter element removed.
- Be sure to refit the cover with the arrow  (of the cover) upright. If the cover is improperly fitted, the 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 primary element and secondary element on page 131.)

#### 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.

### 3. Cleaning fuel filter [LX2610/ LX2610SU]

**⚠ WARNING**

To avoid personal injury or death:

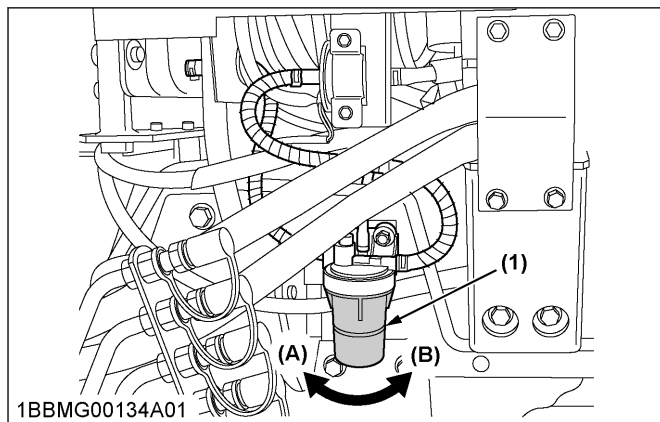
- Stop the engine and remove the key before checking fuel lines and fuel filter.
- Check the fuel lines periodically. The fuel lines are subject to wear and aging. Fuel may leak out onto the running engine, causing a fire.
- Protect your hands when using kerosene to clean components.

This job should not be done in the field, but in a clean place.

1. Loosen and remove the filter bowl, and rinse the inside with kerosene.
2. Remove the element and dip it in the kerosene to rinse.
3. After cleaning, reassemble the fuel filter, keeping out dust and dirt.
4. Bleed the fuel system.  
(See Bleeding fuel system on page 136.)

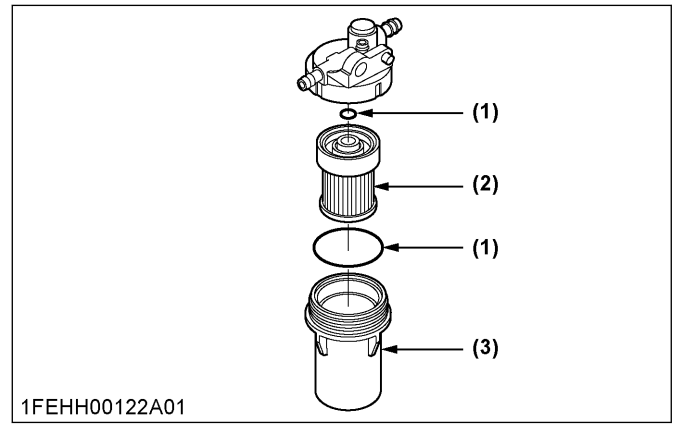
**IMPORTANT :**

- When the fuel filter bowl has been removed, fuel stops flowing from the fuel tank. If the fuel tank is almost full, however, the fuel will flow back from the fuel return pipe to the fuel filter. Before checking, make sure the fuel tank is less than half-full.
- If dust, dirt or water enters the fuel system, the fuel pump and injection nozzles are subject to premature wear. To prevent this, be sure to clean the fuel filter bowl and element periodically.



(1) Fuel filter bowl

(A) "LOOSEN"  
(B) "TIGHTEN"



(1) O ring  
(2) Filter element  
(3) Filter bowl

### 4. Adjusting fan belt tension

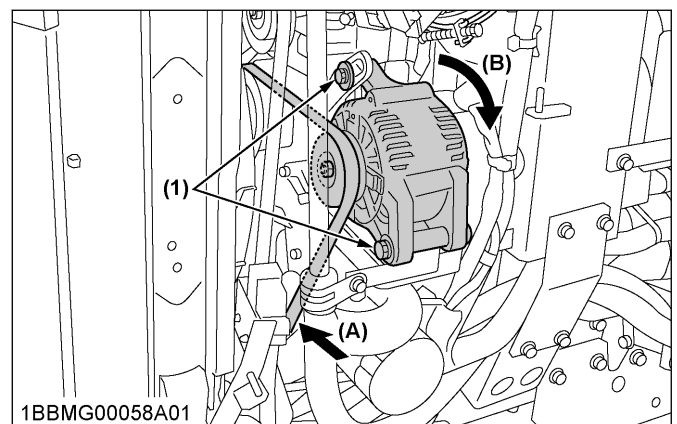
**⚠ WARNING**

To avoid personal injury or death:

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

|                         |  |
|-------------------------|--|
| Proper fan belt tension | A deflection of between 7 to 9 mm (0.28 to 0.35 in.) when the belt is pressed in the middle of the span. |
|-------------------------|--|

1. Stop the engine and remove the key.
2. Apply moderate thumb pressure to the belt between pulleys.
3. If the 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 the fan belt if it is damaged.



(1) Bolt

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

## 5. Adjusting brake pedal

### WARNING

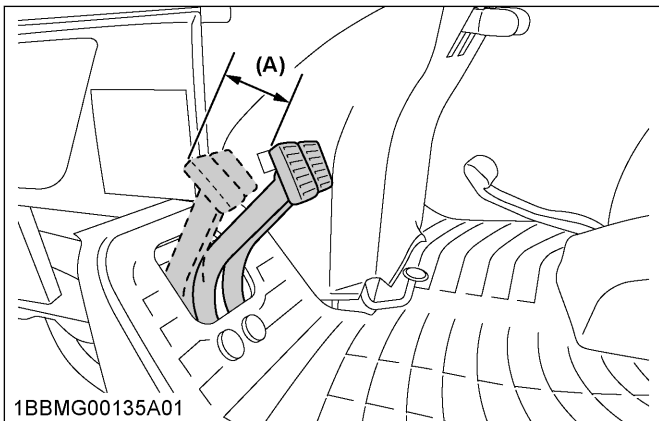
To avoid personal injury or death:

- Stop the engine and chock the wheels before checking the brake pedal.

|                                |  |
|--------------------------------|--|
| Proper brake pedal free travel | 30 to 40 mm (1.18 to 1.57 in.) on the pedal                    |
|                                | Keep the free travel in the right and left brake pedals equal. |

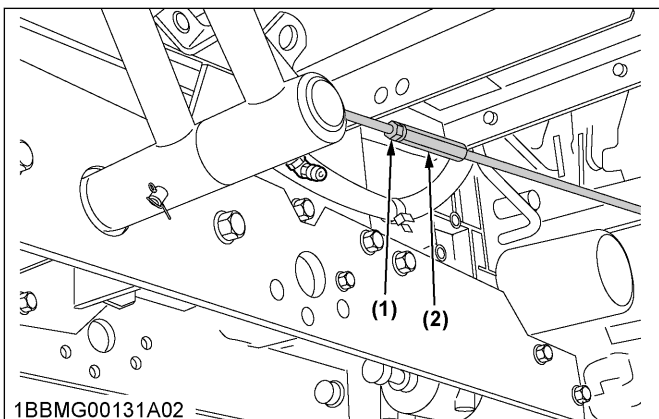
1. Release the parking brake.
2. Disengage the brake pedal lock.
3. Depress the brake pedal several times.
4. Slightly depress the right-hand brake pedal and measure free travel at the top of pedal stroke.
5. Do the same for the left-hand pedal.
6. If adjustment is needed, loosen the lock nut and turn the turnbuckle to adjust the rod length within acceptable limits.
7. Re-tighten the lock nut.

### ROPS model



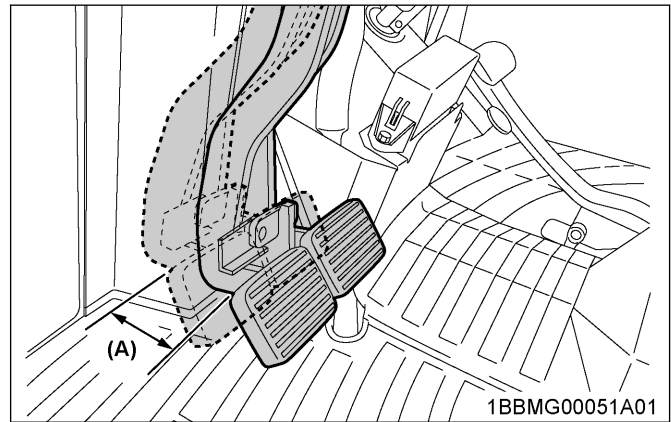
(A) Free travel

### ROPS model



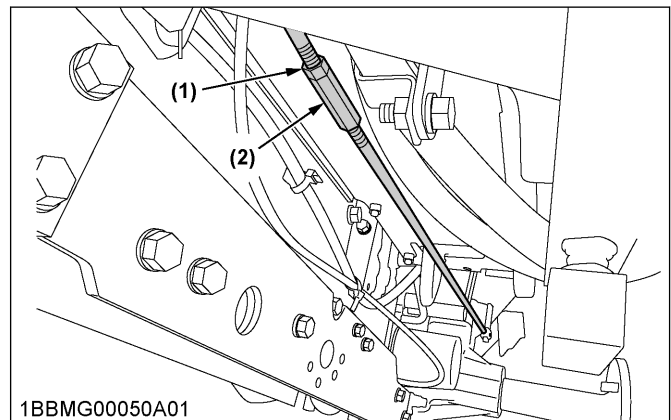
(1) Lock nut (both sides)  
(2) Turnbuckle (Both sides)

### CAB model



(A) Free travel

### CAB model



(1) Lock nut (both sides)  
(2) Turnbuckle (Both sides)

## EVERY 200 HOURS

### 1. Replacing engine oil filter

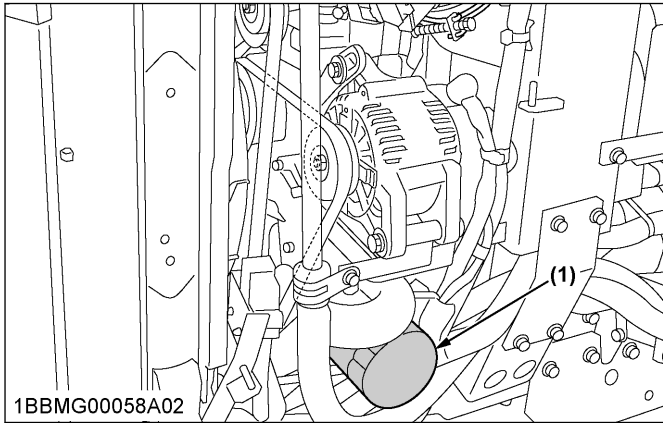
### WARNING

To avoid personal injury or death:

- Be sure to stop the engine before replacing the oil filter cartridge.
- Allow the engine to cool down sufficiently; oil can be hot and can burn.

1. Remove the oil filter.
2. Put a film of clean engine oil on the rubber seal of the new filter.
3. Tighten the filter quickly until it contacts the mounting surface.  
Tighten the filter by hand an additional 1/2 turn only.
4. After the new filter has been replaced, the engine oil normally decreases by a small amount. Make sure that the engine oil does not leak through the seal and be sure to check the oil level on the dipstick. Then replenish the engine oil up to the prescribed level.

5. Properly dispose of used oil.



(1) Engine oil filter

**IMPORTANT :**

- To prevent serious damage to the engine, use only a KUBOTA genuine filter.
- When replacing the engine oil filter:
  - Be careful not to allow any oil onto the harness.
  - Use an oil pan or the like, which could allow no oil to flow into the wire harness.

**2. Changing engine oil**

**⚠ WARNING**

To avoid personal injury or death:

- Be sure to stop the engine before changing the oil.
- Allow the engine to cool down sufficiently; oil can be hot and can burn.

1. To drain the used oil, remove the drain plug at the bottom of the engine and drain the oil completely into the oil pan.
2. After draining, reinstall the drain plug.
3. Fill with new oil up to the upper notch on the dipstick.  
(See LUBRICANTS, FUEL AND COOLANT on page 106.)

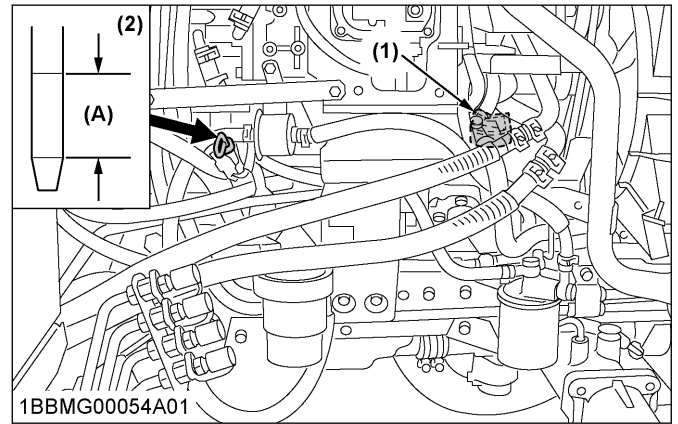
**NOTE :**

- In adding engine oil, use a funnel or the like.

4. Properly dispose of used oil.

|                          |                    |                      |
|--------------------------|--------------------|----------------------|
| Oil capacity with filter | LX3310             | 4.7 L (5.0 U.S.qts.) |
|                          | LX2610<br>LX2610SU | 4.0 L (4.2 U.S.qts.) |

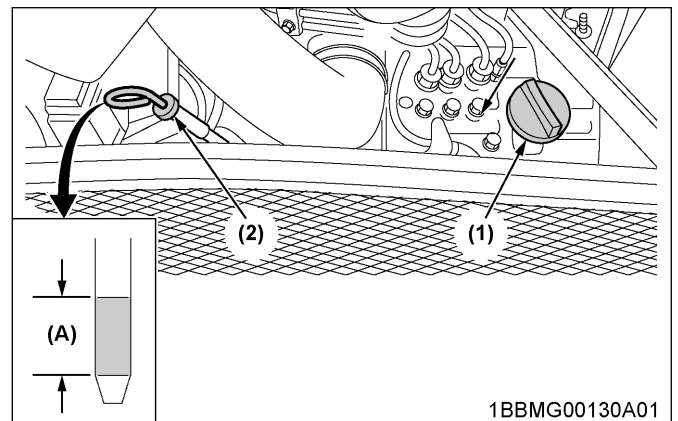
**[LX3310]**



(1) Oil inlet  
(2) Dipstick

(A) Oil level is acceptable within this range.

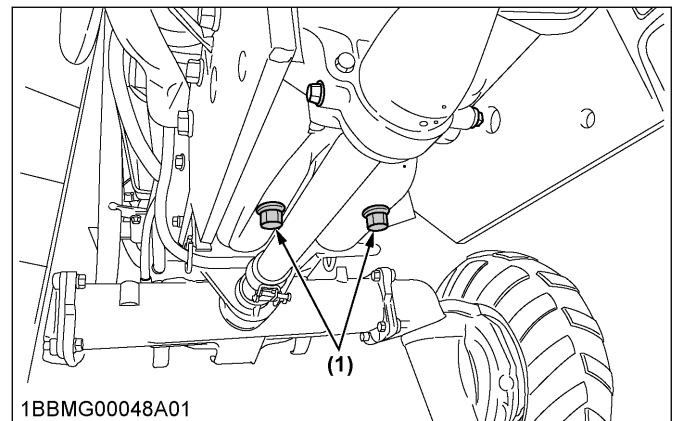
**[LX2610/LX2610SU]**



(1) Oil inlet  
(2) Dipstick

(A) Oil level is acceptable within this range

**All models**



(1) Drain plug (both sides)

**3. Replacing transmission oil filter**

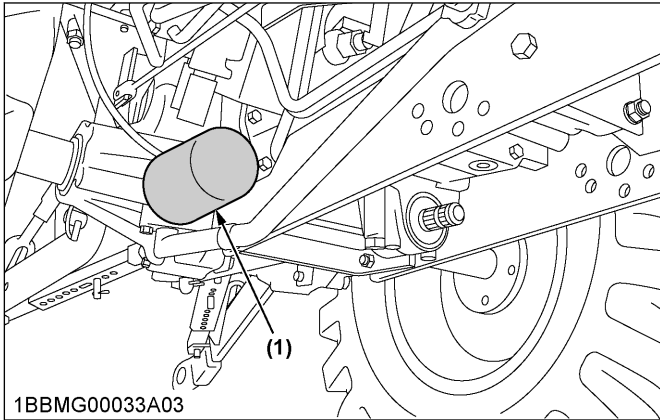
**⚠ WARNING**

To avoid personal injury or death:

- Be sure to stop the engine before changing the oil filter cartridge.
- Allow engine to cool down sufficiently, oil can be hot and can burn.

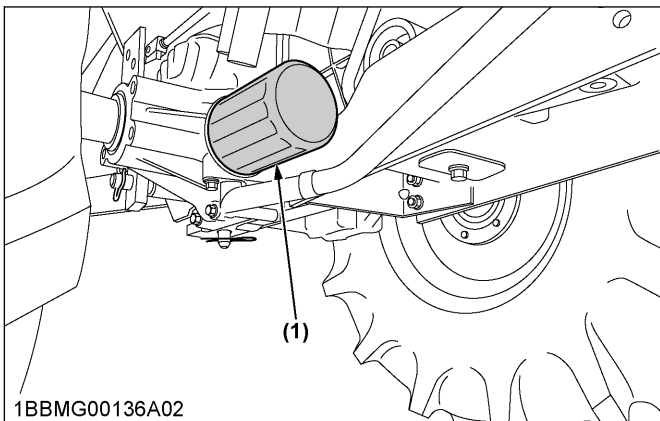
1. Place the oil pan underneath the transmission oil filter and remove the filter.  
Do not remove the hydraulic oil filter. Otherwise, the oil comes out.

[LX2610/LX3310]



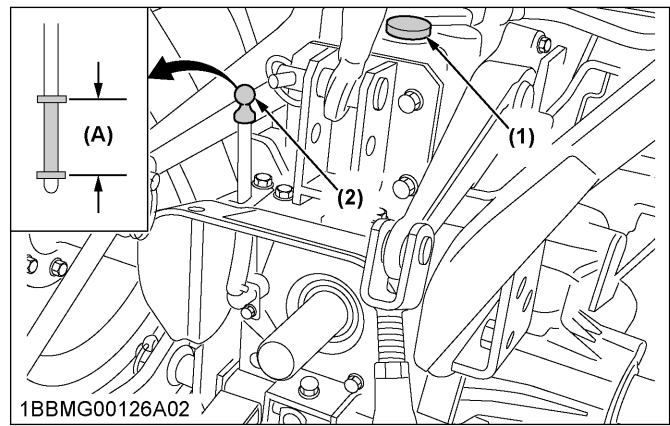
(1) Transmission oil filter

[LX2610SU]



(1) Transmission oil filter

2. Put a film of clean transmission oil on the rubber seal of the new filter.
3. Quickly tighten the filter until it contacts the mounting surface, then, with a filter wrench, tighten it an additional 1 turn only.
4. After the new filter has been replaced, fill the transmission oil up to the upper limit on the dipstick.



(1) Oil inlet  
(2) Dipstick

(A) Oil level is acceptable within this range

5. After running the engine for a few minutes, stop the engine and check the oil level again, add oil to the prescribed level.
6. Make sure that the transmission fluid does not leak past the seal on the filter.

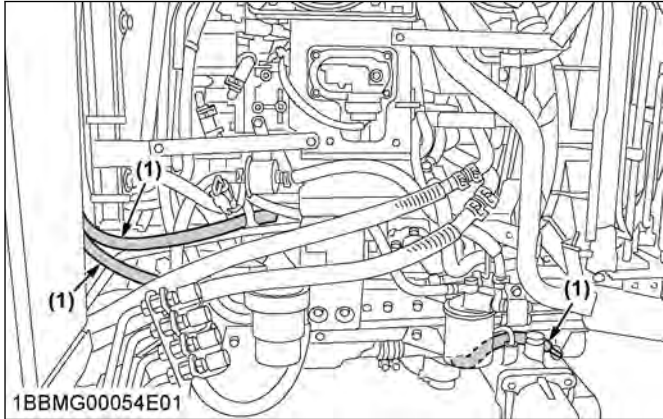
**IMPORTANT :**

- To prevent serious damage to the hydraulic system, use only a KUBOTA genuine filter.
- Do not operate the tractor immediately after changing the transmission fluid.  
Run the engine at medium speed for a few minutes to prevent damage to the transmission.

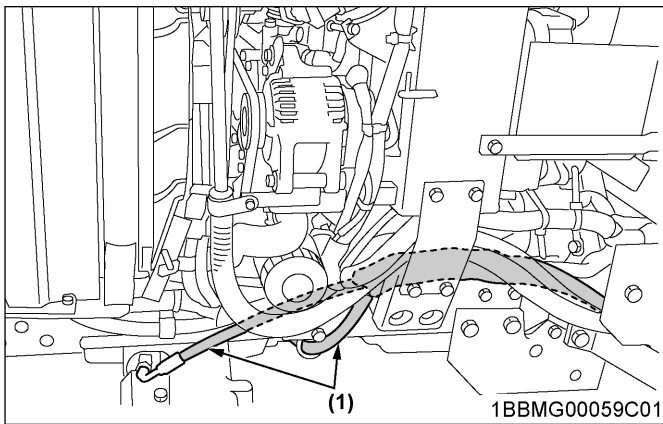
**4. Checking power steering line**

1. Check to see that all lines and hose clamps are tight and not damaged.

- If the hoses and clamps are found to be worn or damaged, replace or repair them at once.

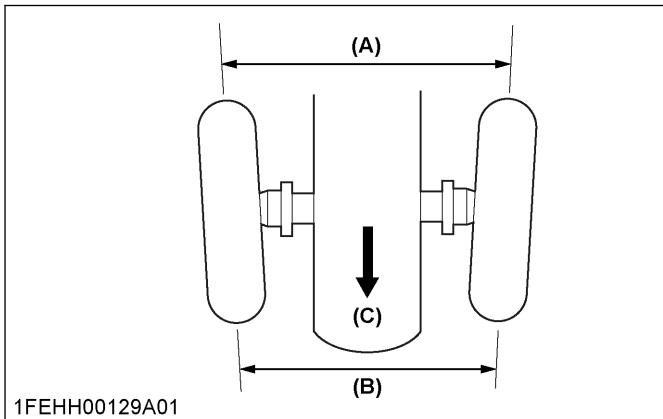


(1) Power steering pressure hoses



(1) Power steering pressure hoses

### 5. Adjusting toe-in



(A) Wheel-to-wheel distance at the rear  
 (B) Wheel-to-wheel distance at the front  
 (C) "FRONT"

- Park the tractor on a flat surface.
- Turn the steering wheel so that the front wheels are in the straight ahead position.
- Lower the implement, lock the park brake and stop the engine.

- Measure the distance between the tire beads at the front of the tire, at hub height.
- Measure the distance between the tire beads at the rear of the tire, at hub height.
- The front distance should be 0 to 20 mm (0 to 0.79 in.) less than the rear distance. If not, adjust the tie rod length.
- If adjust the tie rod length, consult your local Kubota Dealer.

### 6. Adjusting air conditioner belt tension (CAB model)

#### **! WARNING**

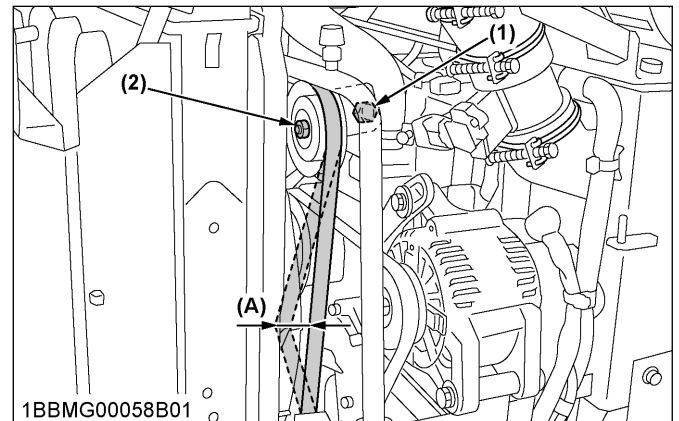
To avoid personal injury or death:

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

Proper air conditioner belt tension

A deflection of between 10 to 12 mm (0.4 to 0.48 in.) when the belt is pressed (98 N / 10 kgf / 22.1 lbs.) in the middle of the span.

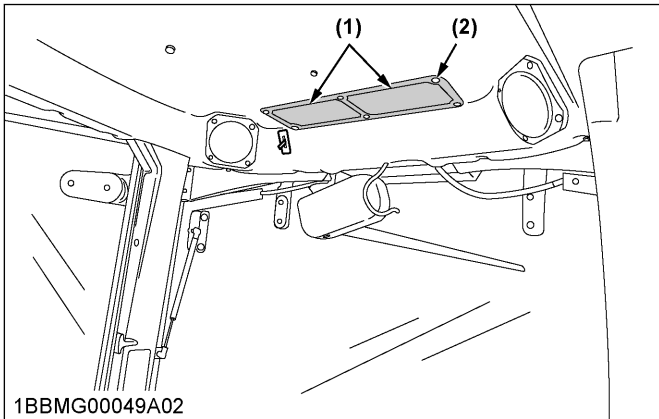
- Stop the engine and remove the key.
- Apply moderate thumb pressure to belt between pulleys.
- If tension is incorrect, loosen the tension pulley mounting nut and turn the adjusting bolt to adjust the belt tension within acceptable limits.
- Replace air conditioner belt if it is damaged.



(1) Adjusting bolt  
 (2) Tension pulley mounting nut  
 (A) Check the belt tension

### 7. Cleaning inner air filter (CAB model)

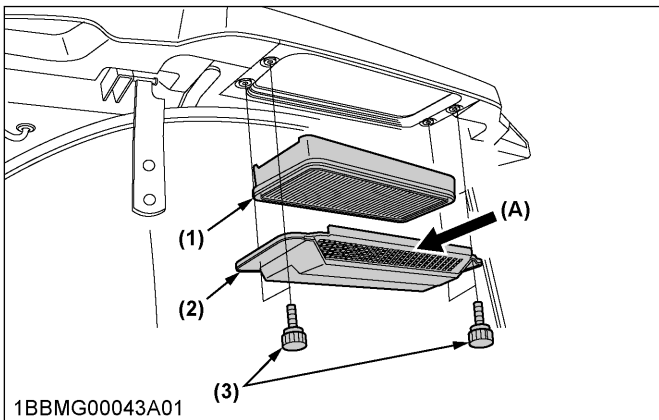
1. Remove the inner filter, and blow air from the direction opposite to the filter's normal air flow.  
Pressure of compressed air must be under 205 kPa / 2.1 kgf/cm<sup>2</sup> / 30 psi.



1BBMG00049A02  
(1) Inner air filter  
(2) Screw

## 8. Cleaning fresh air filter (CAB model)

1. Remove the knob bolts and pull out the filter.



1BBMG00043A01  
(1) Fresh air filter  
(2) Cover  
(3) Knob bolt  
(A) Air inlet port

**NOTE :**

- After cleaning, attach the filter and cover as in the previous illustration.

### 8.1 Cleaning the filter

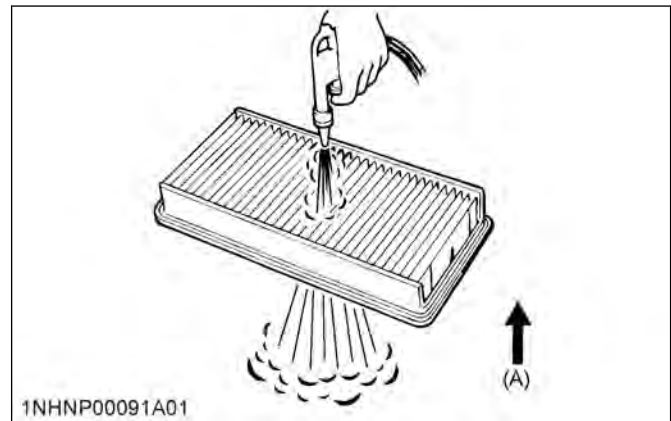
**Normal use**

Blow air from the opposite direction to the filter's normal air flow.

Pressure of compressed air must be under 205 kPa (2.1 kgf/cm<sup>2</sup> / 30 psi).

**IMPORTANT :**

- Do not hit the filter. If the filter becomes deformed, dust may enter into the air-conditioner, which may cause damage and malfunction.



1NHNP00091A01  
(A) "AIR CONDITIONER AIRFLOW"

**NOTE :**

- If the filter is very dirty:  
Dip the filter in lukewarm water with mild dishwashing detergent.  
Move it up and down as well as left and right to loosen dirt. Rinse the filter with clean water and let it air-dry.

**IMPORTANT :**

- Do not use gasoline, thinner or similar chemicals to clean the filter as damage to the filter may occur.
- It may also cause an unpleasant odor in the CAB next time the system is used.

## 9. Checking the air conditioner condenser (CAB model)

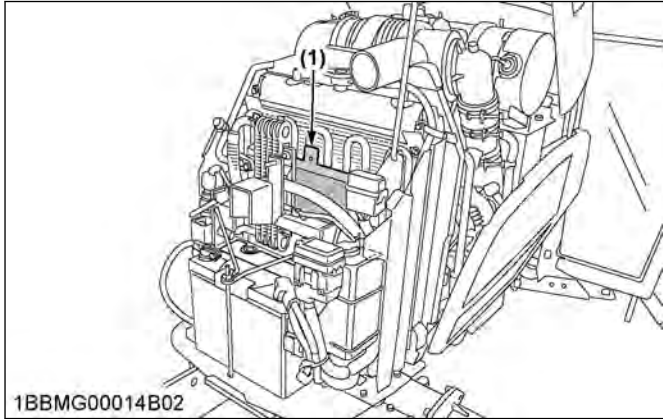
**! WARNING**

To avoid personal injury or death:

- Be sure to stop the engine before removing the screen.
- The condenser and receiver become hot while the air conditioner is running. Before checking or cleaning them, wait long enough until they cool down.



1. Check air conditioner condenser to be sure it is clean of debris.



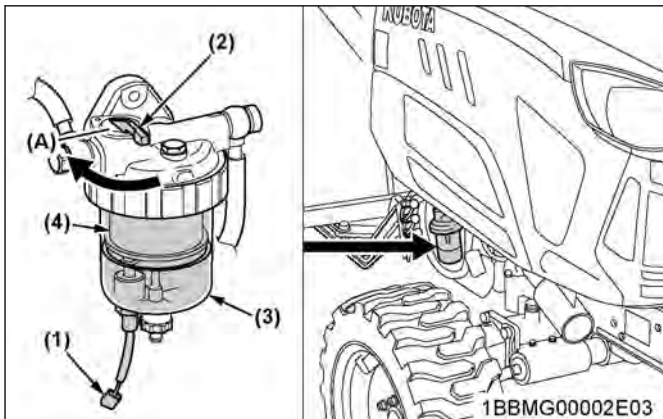
(1) Air conditioner condenser

## EVERY 400 HOURS

### 1. Replacing water separator [LX3310]

This job should not be done in the field, but in a clean environment.

1. Disconnect the water sensor connector.
2. Close the fuel shutoff-valve.
3. Unscrew the cup and remove it, then rinse the inside with kerosene.
4. Take out the element and replace it with a new one.
5. After replacing, reassemble the water separator, keeping out dust and dirt.
6. Connect the water sensor connector.
7. Bleed the fuel system.  
(See Bleeding fuel system on page 136.)



- (1) Water sensor connector
- (2) Fuel shutoff-valve
- (3) Cup
- (4) Element

(A) "CLOSE"

#### IMPORTANT :

- If the water separator and/or fuel filter is not well maintained, the supply pump and

injector may be damaged earlier than expected.

## 2. Changing transmission fluid

### WARNING

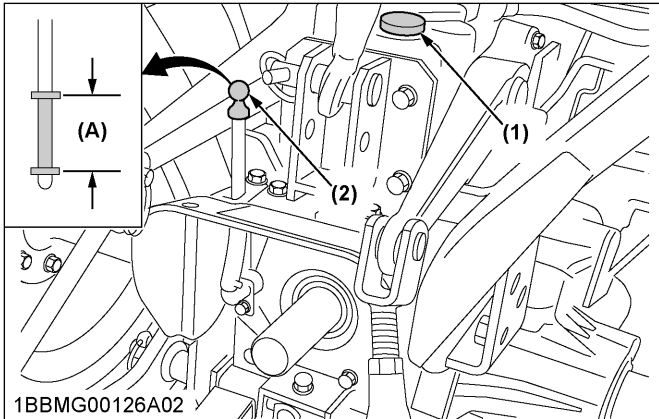
To avoid personal injury or death:

- Allow the engine to cool down sufficiently; oil can be hot and can burn.

1. To drain the used oil, remove the drain plug at the bottom of the transmission case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plug.
3. Fill with new **KUBOTA SUPER UDT** fluid up to the upper notch on the dipstick.  
(See LUBRICANTS, FUEL AND COOLANT on page 106.)
4. After running the engine for a few minutes, stop it and check the oil level again; add oil to prescribed level.

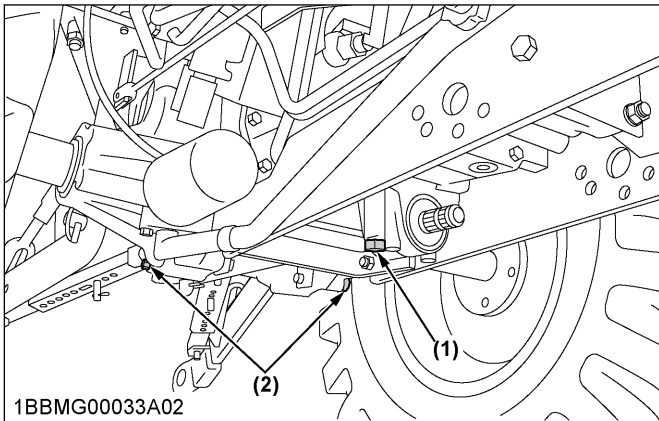
5. Properly dispose of used oil.

|              |                      |
|--------------|----------------------|
| Oil capacity | 15 L (4.0 U.S.gals.) |
|--------------|----------------------|



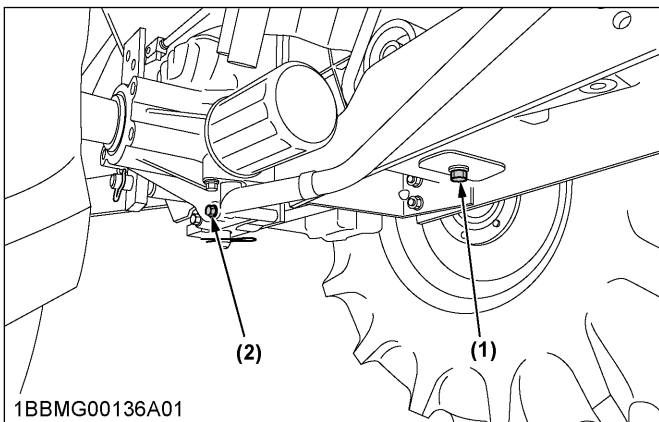
(1) Oil inlet  
(2) Dipstick  
(A) Oil level is acceptable within this range

[LX2610/LX3310]



(1) Drain plug  
(2) Drain plugs

[LX2610SU]



(1) Drain plug  
(2) Drain plug (both sides)

**IMPORTANT :**

- If the 3-point hitch can not be raised by setting the hydraulic control lever to the UP position after long term storage or when

changing the transmission oil, turn steering wheel to the right and left several times to bleed air from the system.

- Do not operate the tractor immediately after changing the transmission fluid. Run the engine at medium speed for a few minutes to prevent damage to the transmission.

3. Replacing hydraulic oil filter

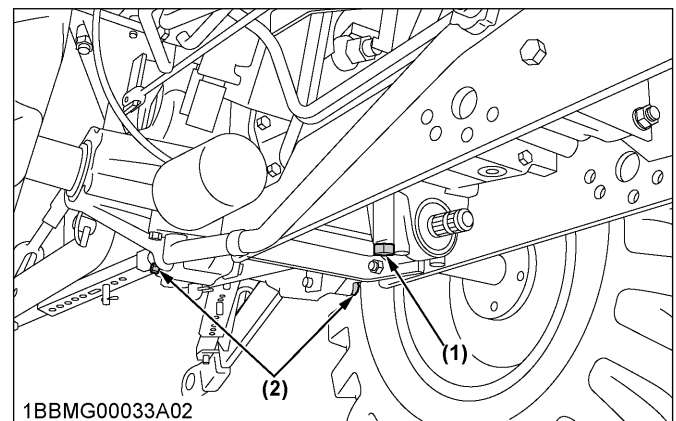
**! WARNING**

To avoid personal injury or death:

- Be sure to stop the engine before changing the oil filter cartridge.
- Allow the engine to cool down sufficiently; oil can be hot and can burn.

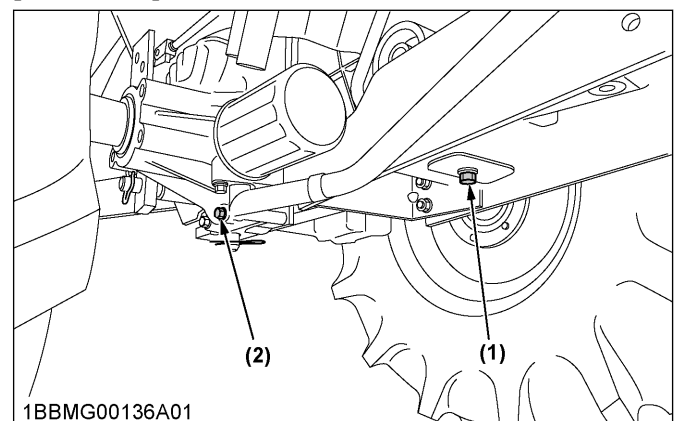
1. Remove the drain plugs at the bottom of the transmission case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plugs.

[LX2610/LX3310]



(1) Drain plug  
(2) Drain plugs

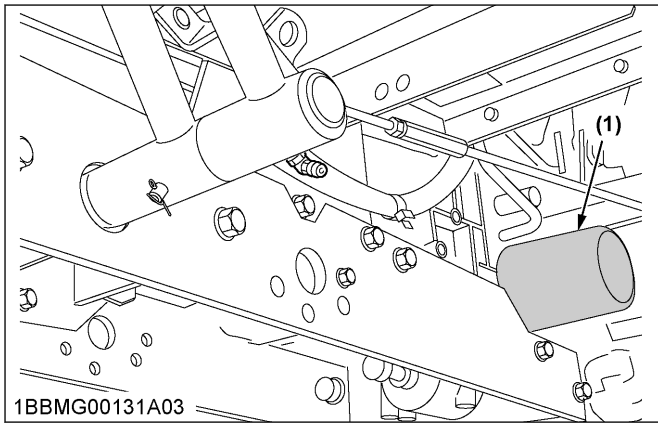
[LX2610SU]



(1) Drain plug  
(2) Drain plug (both sides)

3. Remove the oil filter.

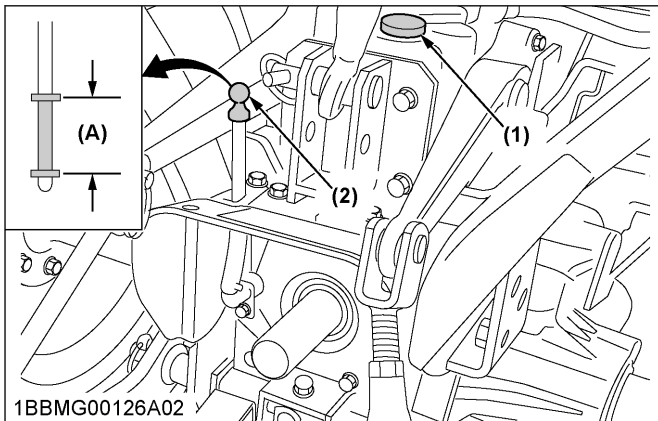
**All models**



(1) Hydraulic oil filter

4. Put a film of clean transmission oil on the rubber seal of the new filter.
5. Quickly tighten the filter until it contacts the mounting surface, then tighten it by hand an additional 1/2 turn only.
6. After the new filter has been replaced, fill the transmission oil up to the upper limit on the dipstick.

**All models**



(1) Oil inlet (A) Oil level is acceptable within this range  
(2) Dipstick

7. After running the engine for a few minutes, stop the engine and check the oil level again, add oil to the prescribed level.
8. Make sure that the transmission fluid doesn't leak past the seal on the filter.

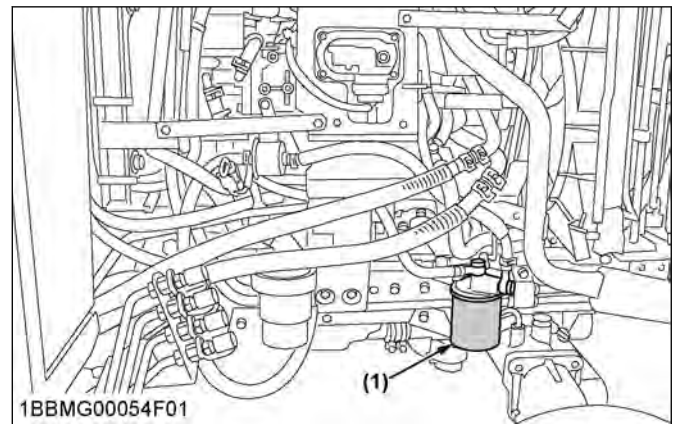
**IMPORTANT :**

- To prevent serious damage to the hydraulic system, use only a KUBOTA genuine filter.

**4. Replacing fuel filter [LX3310]**

1. Remove the fuel filter.
2. Put a film of clean fuel on the rubber seal of the new filter.

3. Tighten the filter quickly until it contacts the mounting surface.  
Tighten the filter by hand an additional 1/2 turn only.
4. Bleed the fuel system.  
(See Bleeding fuel system on page 136.)



(1) Fuel filter

**5. Replacing fuel filter [LX2610/ LX2610SU]**

**⚠ WARNING**

To avoid personal injury or death:

- Stop the engine and remove the key before checking fuel lines and fuel filter.
- Check the fuel lines periodically. The fuel lines are subject to wear and aging. Fuel may leak out onto the running engine, causing a fire.
- Protect your hands when using kerosene to clean components.

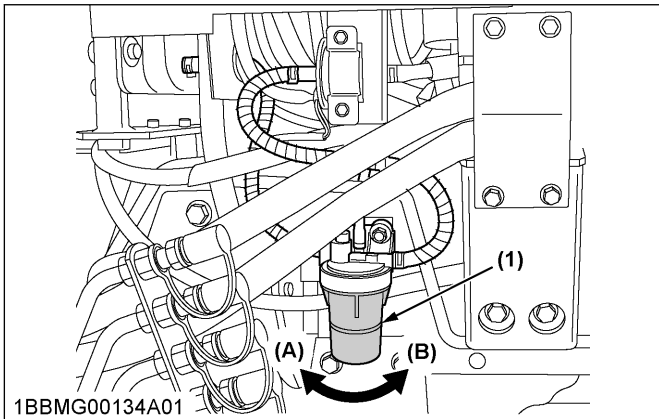
This job should not be done in the field, but in a clean place.

1. Loosen and remove the filter bowl, and rinse the inside with kerosene.
2. Take out the element and replace it with new one.
3. Reassemble the fuel filter, keeping out dust and dirt.

- Bleed the fuel system.  
(See Bleeding fuel system on page 136.)

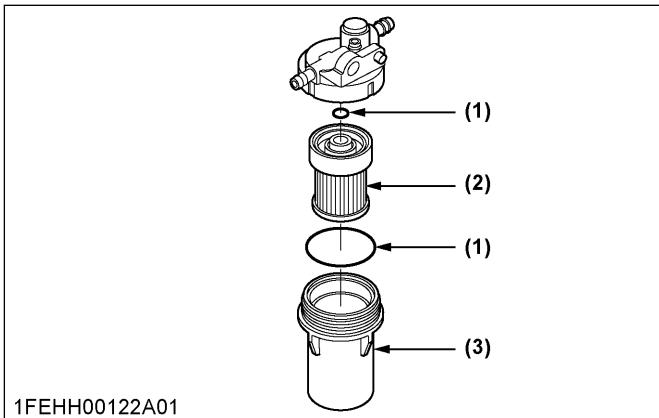
**IMPORTANT :**

- When the fuel filter bowl has been removed, fuel stops flowing from the fuel tank. If the fuel tank is almost full, however, the fuel will flow back from the fuel return pipe to the fuel filter. Before checking, make sure the fuel tank is less than half-full.
- If dust, dirt or water enters the fuel system, the fuel pump and injection nozzles are subject to premature wear. To prevent this, be sure to clean the fuel filter bowl and element periodically.



(1) Fuel filter bowl

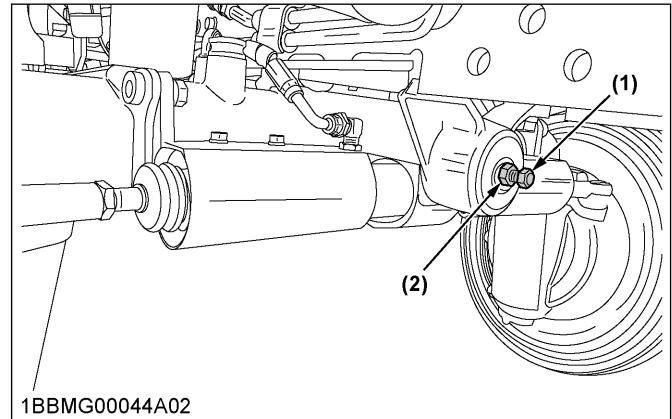
(A) "LOOSEN"  
(B) "TIGHTEN"



(1) O ring  
(2) Filter element  
(3) Filter bowl

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

- Loosen the lock nut, and tighten the adjusting screw.  
The oscillating load is 50 to 100 N / 5.1 to 10.2 kg / 11.2 to 22.5 lbf.  
If the adjusting screw is tightened, loosened and re-tightened, apply liquid gasket to its tip.
- Retighten the lock nut.  
Consult your local KUBOTA Dealer for further details.



(1) Adjusting screw  
(2) Lock nut

## 7. Changing front axle gear case oil

- Park the tractor on a firm, flat and level surface.
- To drain the used oil, remove the right and left drain plugs and filling plugs at the front axle gear case and drain the oil completely into the oil pan.
- After draining, reinstall the drain plugs.
- Fill with the new oil up to the upper notch on the dipstick.  
(See LUBRICANTS, FUEL AND COOLANT on page 106.)

**IMPORTANT :**

- After 10 minutes, check the oil level again; add oil to prescribed level.
- After filling, reinstall the filling plug.

## 6. Adjusting front axle pivot (4WD)

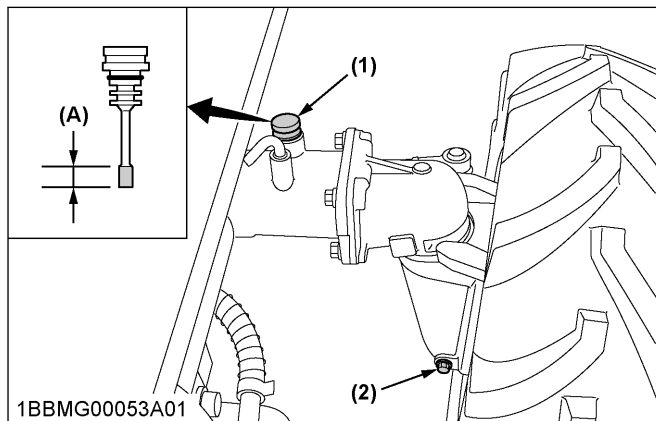
**⚠ WARNING**

To avoid personal injury or death:

- Park the tractor on a flat place.
- Lower the implement, lock the parking brake and stop the engine.

## 6. Properly dispose of used oil.

|              |                      |
|--------------|----------------------|
| Oil capacity | 4.7 L (5.0 U.S.qts.) |
|--------------|----------------------|



1BBMG00053A01

(1) Filling plug with dipstick  
(2) Drain plug

(A) Oil level is acceptable within this range.

## EVERY 800 HOURS

### 1. Adjusting engine valve clearance

Consult your local KUBOTA Dealer for this service.

## EVERY 1000 HOURS OR 1 YEAR

Be sure to do the following servicing once every 1000 hours or yearly, whichever comes first.

### 1. Replacing air cleaner primary element and secondary element

(See Cleaning air cleaner primary element on page 120.)

#### NOTE :

- To prevent serious damage to the engine, use only a KUBOTA genuine filter.

## EVERY 1500 HOURS

### 1. Cleaning fuel injector nozzle injection pressure

Consult your local KUBOTA Dealer for this service.

### 2. Checking EGR cooler [LX3310]

Consult your local KUBOTA Dealer for this service.

## EVERY 2000 HOURS OR 2 YEARS

Be sure to do the following servicing once every 2000 hours or biennially, whichever comes first.

## 1. Flushing cooling system and changing coolant

### ! WARNING

To avoid personal injury or death:

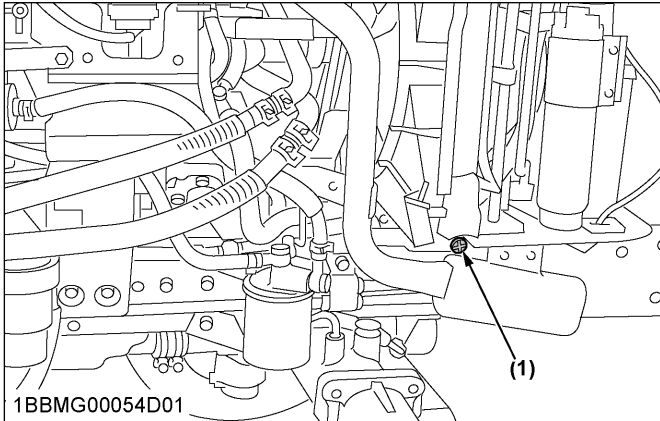
- Do not remove the radiator cap while the coolant is hot. When cool, slowly rotate the cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.

- Stop the engine, remove the key and let it cool down.
- To drain the coolant:
  - [LX2610]  
Open the radiator drain shutoff-valve, and then remove the radiator drain plug and the radiator cap.
  - [LX3310]  
Remove the radiator hose clamp, and then remove the radiator hose and the radiator cap.
- After the coolant has drained:
  - [LX2610]  
Close the drain shutoff-valve and reinstall the drain plug.
  - [LX3310]  
Reinstall the radiator hose, clamp, and drain plug.
- Fill with clean soft water and cooling system cleaner.
- Follow the directions given in the cleaner instruction.
- After flushing, fill with clean soft water and anti-freeze until the coolant level is just below the radiator cap.  
Install the radiator cap securely.
- Fill with coolant up to the **[FULL]** mark of the recovery tank.
- Start up and operate the engine for a few minutes.
- Stop the engine, remove the key and let it cool down.
- Check the coolant level of the recovery tank and add coolant if necessary.

11. Properly dispose of the used coolant.

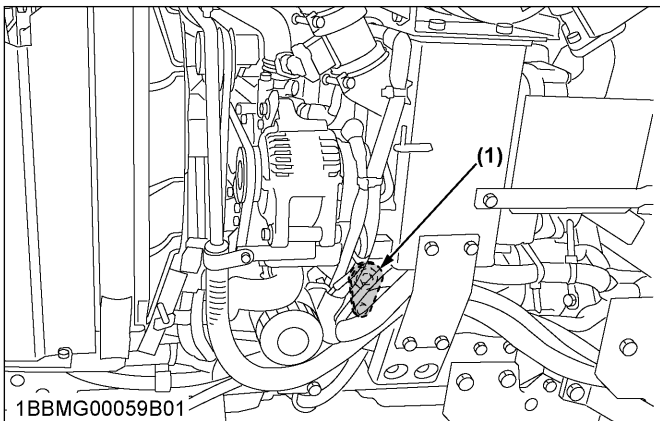
| Model | Coolant capacity (with recovery tank) |
|-------|---------------------------------------|
| ROPS  | 4.3 L (4.5 U.S.qts.)                  |
| CAB   | 5.4 L (5.7 U.S.qts.)                  |

Right side



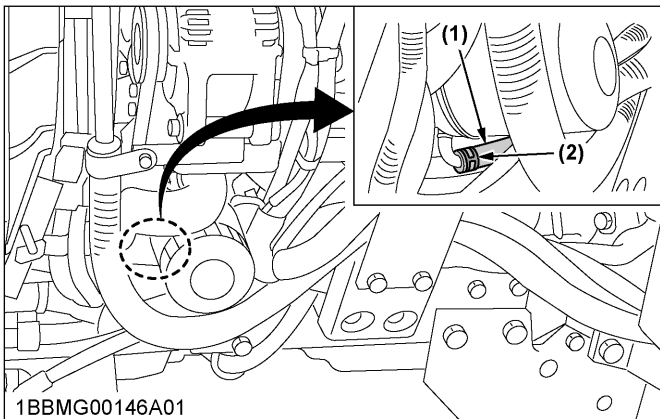
(1) Drain plug

Left side [LX2610]

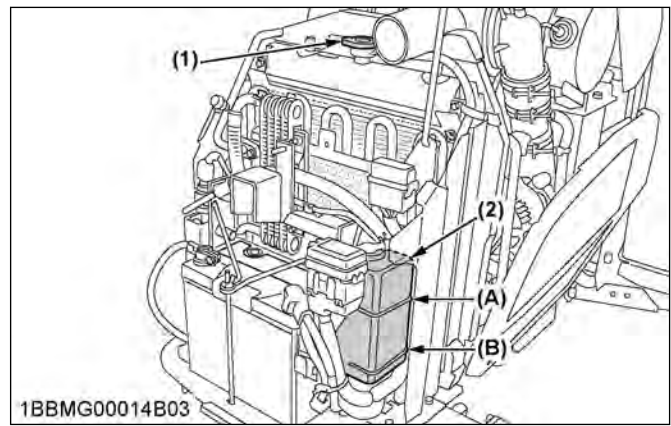


(1) Drain shutoff-valve

Left side [LX3310]



(1) Radiator hose  
(2) Radiator hose clamp



(1) Radiator cap (A) "FULL"  
(2) Recovery tank (B) "LOW"

**IMPORTANT :**

- Do not start the engine without any coolant.
- Use clean, fresh soft water and antifreeze to fill the radiator and recovery tank.
- When mixing the antifreeze with water, the antifreeze mixing ratio is 50%.
- Securely tighten the radiator cap. If the cap is loose or improperly fitted, water may leak out and the engine could overheat.

**2. Antifreeze**

**⚠ WARNING**

To avoid personal injury or death:

- When using antifreeze, put on some protection such as rubber gloves (antifreeze contains poison).
- If you swallow the antifreeze, seek immediate medical help. Do not make a person throw up unless told to do so by a poison control or a healthcare professional. Use standard first aid and CPR for signs of shock or cardiac arrest. Call your local poison control center or your local emergency number for further assistance.
- When antifreeze comes in contact with the skin or clothing, wash it off immediately.
- Do not mix different types of antifreeze. The mixture can produce chemical reactions resulting in harmful substances.
- Antifreeze is extremely flammable and explosive under certain conditions. Keep fire and children away from antifreeze.
- When draining fluids from the engine, place a container underneath the engine body.
- Do not pour waste onto the ground, down a drain, or into any water source.
- Also, observe the relevant environmental protection regulations when disposing of antifreeze.

Always use a 50/50 mix of long-life coolant and clean soft water in KUBOTA engines.

Consult your local KUBOTA Dealer concerning coolant for extreme conditions.

1. Long-life coolant (hereafter LLC) comes in several types. Use ethylene glycol (EG) type for this engine.
2. Before employing LLC-mixed cooling water, fill the radiator with fresh water and empty it again. Repeat this procedure 2 or 3 times to clean up the inside.
3. Mixing the LLC  
Premix 50% LLC with 50% clean soft water. When mixing, stir it up well, and then pour it into the radiator.
4. The procedure for the mixing of water and antifreeze differs according to the make of the antifreeze and the ambient temperature. Refer to SAE J1034 standard, more specifically also to SAE J814c.

| Vol % antifreeze | Freezing point |     | Boiling point*1 |     |
|------------------|----------------|-----|-----------------|-----|
|                  | °C             | °F  | °C              | °F  |
| 50               | -37            | -34 | 108             | 226 |

\*1 At 1.013 x 10<sup>5</sup> Pa (760 mmHg) pressure (atmospheric). A higher boiling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

5. Adding the LLC
  - a. Add only water if the mixture level is reduced by evaporation.
  - b. If there is a mixture leak, add LLC of the same manufacturer and type in the same mixture percentage.

**IMPORTANT :**

- **Never add any long-life coolant from a different manufacturer. Different brands may have different additive components, and the engine may fail to perform as specified.**

6. When the LLC is mixed, do not employ any radiator cleaning agent. The LLC contains anticorrosive agent. If mixed with the cleaning agent, sludge may build up, adversely affecting the engine parts.
7. KUBOTA's genuine long-life coolant has a service life of 2 years. Be sure to change the coolant every 2000 hours or every 2 years, whichever comes first.

**NOTE :**

- **The above data represents industry standards that necessitate a minimum glycol content in the concentrated antifreeze.**

## EVERY 3000 HOURS

### 1. Checking injection pump [LX2610/LX2610SU]

Consult your local KUBOTA Dealer for this service.

### 2. Checking EGR system [LX3310]

Consult your local KUBOTA Dealer for this service.

### 3. Checking supply pump [LX3310]

Consult your local KUBOTA Dealer for this service.

### 4. Cleaning DPF muffler [LX3310]

1. Remove the ash.  
The longer the DPF operates, the more ash (burnt residue) is collected in the filter. Too much ash build-up adversely affects the DPF performance. Consult your local KUBOTA Dealer to clean the filter.

**IMPORTANT :**

- **The DPF needs to be cleaned with a specific cleaning device. Do not disassemble the DPF for cleaning or attempt to clean it yourself. Consult your local KUBOTA Dealer.**

### 5. Checking turbocharger [LX3310]

Consult your local KUBOTA Dealer for this service.

## EVERY 1 YEAR

### 1. Checking exhaust manifold [LX3310]

Consult your local KUBOTA Dealer for this service.

### 2. Checking the radiator hoses and clamps

**⚠ WARNING**

To avoid personal injury or death:

- **Be sure to stop the engine and remove the key before checking radiator hose and clamp.**
- **Allow engine and coolant to cool down sufficiently before checking.**

Inspect every year; replace if any deterioration (crack, hardening, scar, or deformation) or damage occurred.

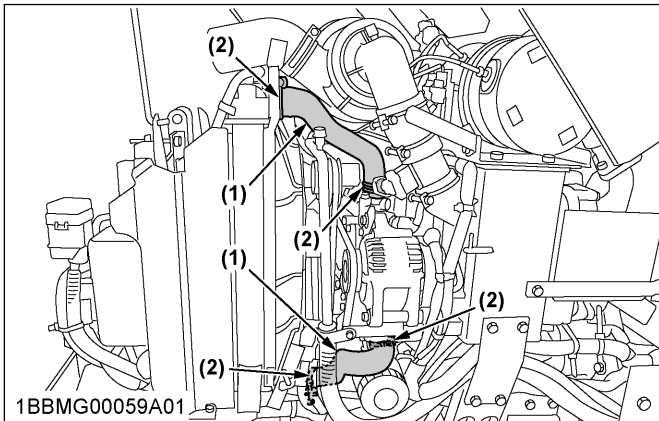
1. If the hose clamps are loose or water leaks, tighten the bands securely.

- Replace the hoses and tighten the hose clamps securely, if the radiator hoses are swollen, hardened or cracked.

**NOTE :**

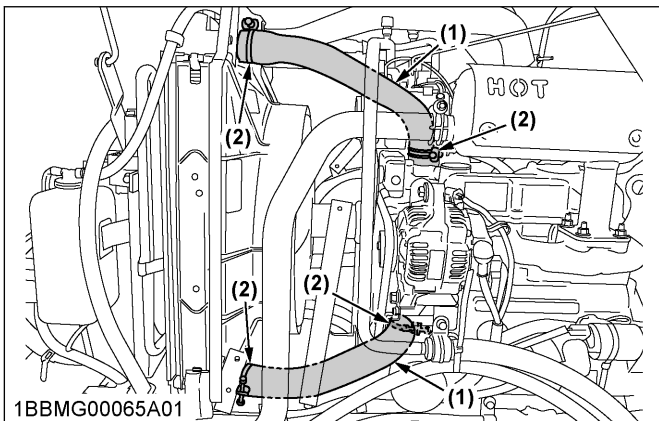
- **Replace the hoses and hose clamps every 4 years or earlier if they are found to be swollen, hardened or cracked.**

**[LX3310]**



1BBMG00059A01  
 (1) Radiator hoses (2 hoses)  
 (2) Clamp bands (4 clamps)

**[LX2610/LX2610SU]**



1BBMG00065A01  
 (1) Radiator hoses (2 hoses)  
 (2) Clamp bands (4 clamps)

**2.1 Overheating countermeasures**

Take the following actions in the event the coolant temperature is nearly at or over the boiling point, also called "overheating".

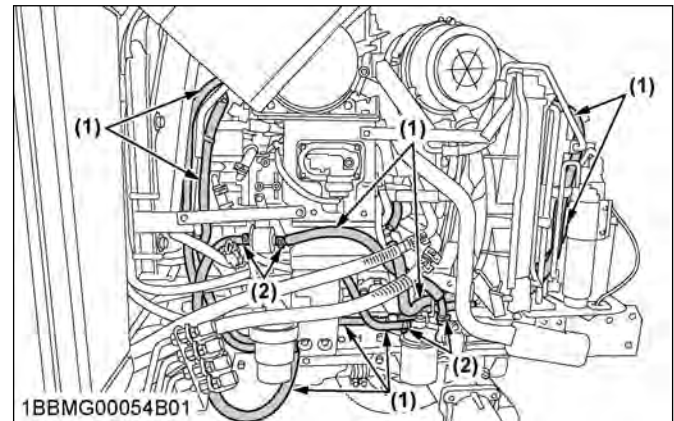
- Park the tractor in a safe place and keep the engine idling unloaded.
- Don't stop the engine suddenly, but stop it after about 5 minutes of unloaded idling.
- Keep yourself well away from the machine for further 10 minutes or while the steam blows out.
- Check that there are no dangers such as burns. Get rid of the causes of overheating according to the troubleshooting section of this manual.

(See TROUBLESHOOTING on page 143.)  
 Afterward, restart the engine.

**3. Checking fuel lines**

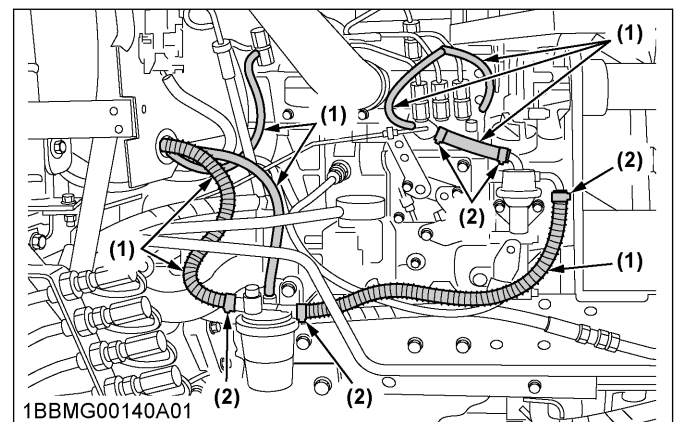
- Check to see that all lines and hose clamps are tight and not damaged.
- If the hoses and clamps are found to be worn or damaged, replace or repair them at once.

**[LX3310]**



1BBMG00054B01  
 (1) Fuel lines  
 (2) Clamp bands

**[LX2610/LX2610SU]**



1BBMG00140A01  
 (1) Fuel lines  
 (2) Clamp bands

**NOTE :**

- **If the fuel line has been replaced, be sure to properly bleed the fuel system.**  
 (See Bleeding fuel system on page 136.)

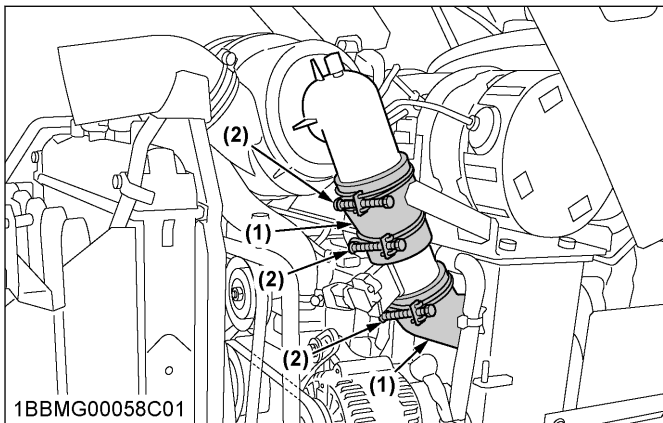
**4. Checking intake air line**

- Check to see that hoses and hose clamps are tight and not damaged.



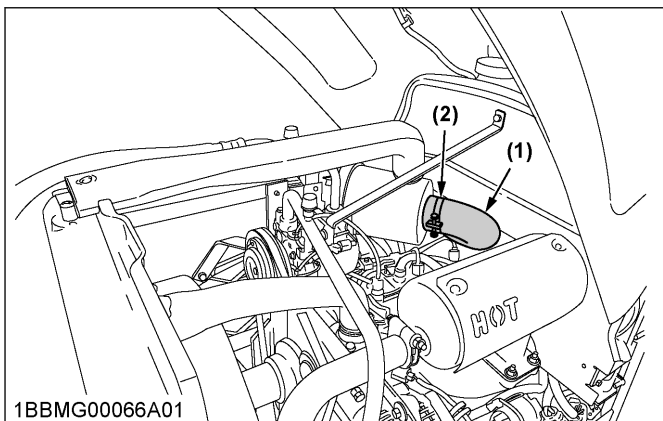
- If the hoses and clamps are found to be worn or damaged, replace or repair them at once.

**[LX3310]**



- Hose
- Hose clamps

**[LX2610/LX2610SU]**



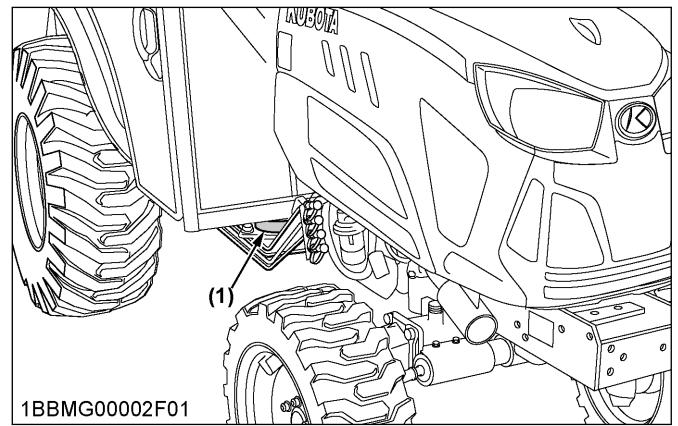
- Hose
- Hose clamps

**5. Checking the air conditioner pipe and hose (CAB model)**

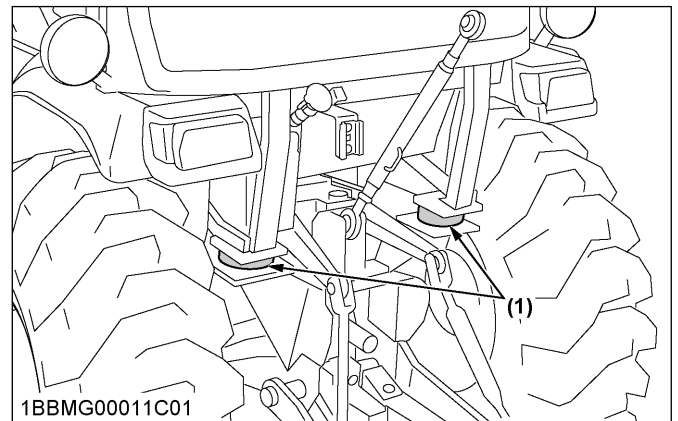
- Check to see that all lines and hose clamps are tight and not damaged.
- If hoses and clamps are found worn or damaged, consult your local KUBOTA Dealer for this service.

**6. Checking CAB isolation cushion (CAB model)**

- Check the cushion for any breakage or fatigue. Replace them if they have deteriorated.



- Cushions (both side)



- Cushion

**EVERY 4 YEARS**

**1. Replacing radiator hose (water pipes)**

Replace the hoses and clamps.  
(See Checking the radiator hoses and clamps on page 133.)

**2. Replacing power steering line**

Consult your local KUBOTA Dealer for this service.

**3. Replacing fuel lines**

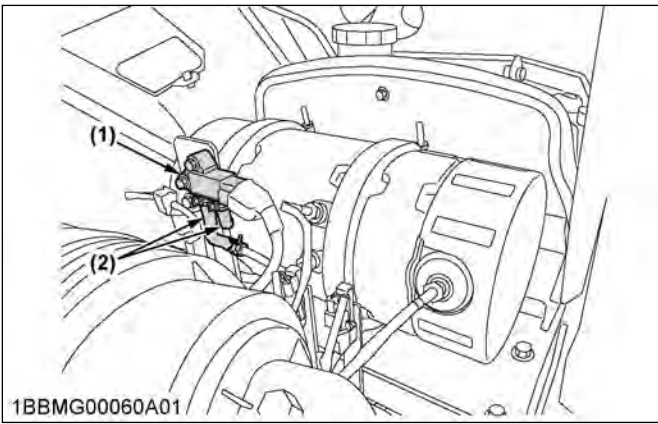
Consult your local KUBOTA Dealer for this service.

**4. Replacing intake air line**

Consult your local KUBOTA Dealer for this service.

**5. Replacing differential pressure sensor hose [LX3310]**

Consult your local KUBOTA Dealer for this service.



1BBMG00060A01  
 (1) Differential pressure sensor  
 (2) Hose

## 6. Replacing air conditioner hose (CAB model)

Consult your local KUBOTA Dealer for this service.

## SERVICE AS REQUIRED

### 1. Bleeding fuel system

Air must be removed:

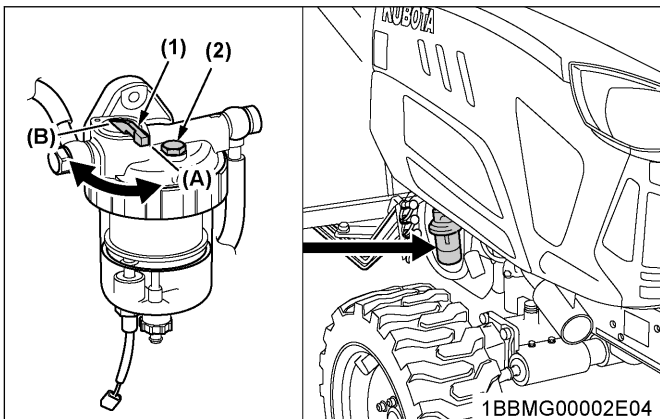
- When the fuel filter or lines are removed.
- When the water is drained from the water separator. [LX3310]
- When the tank is completely empty.
- After the tractor has not been used for a long period of time.

#### Bleeding procedure [LX2610/LX2610SU]

1. Fill the fuel tank with fuel.
2. Start the engine and run for about 30 seconds, and then stop the engine.

#### Bleeding procedure [LX3310]

1. Fill the fuel tank with fuel, and open the fuel shutoff-valve.
2. Loosen the air vent plug until the liquid level rises.



(1) Fuel shutoff-valve  
 (2) Air vent plug  
 (A) "OPEN"  
 (B) "CLOSE"

3. Wait until air in the tank is removed.

- Turn on the key when the increase of liquid level is slow.
4. Set the hand throttle lever at the minimum speed position, turn the key switch to the start position. If the engine does not start, try it several times at 30-second intervals.

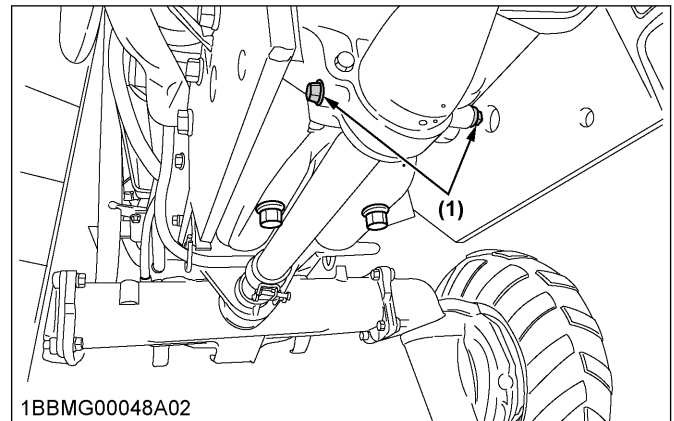
#### IMPORTANT :

- Do not hold the key switch at the engine start position for more than 10 seconds continuously. If more engine cranking is needed, try again after 30 seconds.
5. Accelerate the engine to remove the small portion of air left in the fuel system.
  6. If air still remains and the engine stops, repeat the previous steps.

### 2. Draining clutch housing water

The tractor is equipped with a drain plug under the clutch housing.

After operating in the rain or snow, or if the tractor has been washed, water may get into the clutch housing. Remove the drain plug, drain the water and then reinstall the plug.



1BBMG00048A02  
 (1) Water drain plug

### 3. Replacing fuses

The tractor electrical system is protected from potential damage by fuses.

A blown fuse indicates that there is an overload or short somewhere in the electrical system.

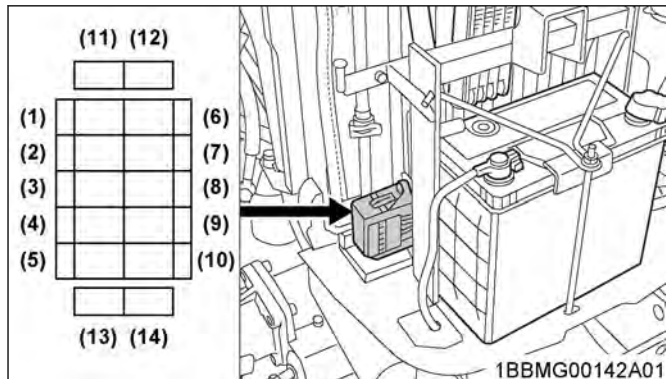
If any of the fuses should blow, replace with a new one of the same capacity.

#### IMPORTANT :

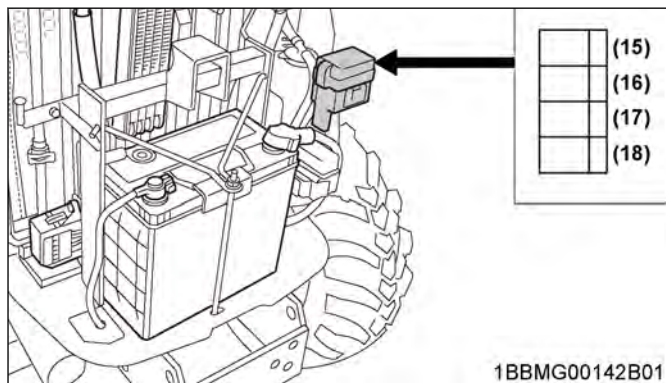
- Before replacing a blown fuse, determine why the fuse blew and make any necessary repairs. Failure to follow this procedure may result in serious damage to the tractor electrical system. For specific information dealing with electrical problems, read the troubleshooting section of

this manual or contact your local KUBOTA Dealer.  
(See TROUBLESHOOTING on page 143.)

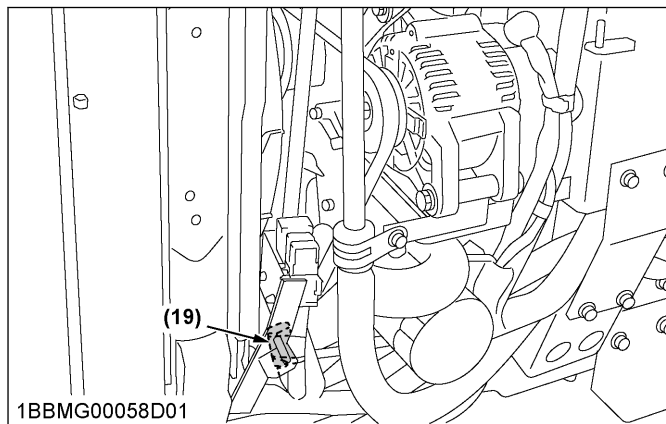
[LX2610/LX3310 ROPS model]



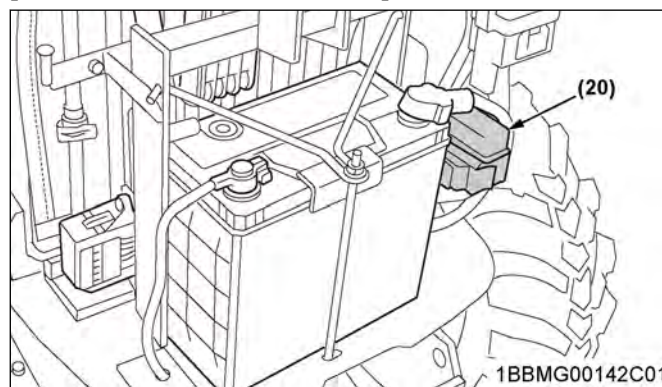
[LX3310 ROPS model]



[LX3310 ROPS model]



[LX2610/LX3310 ROPS model]



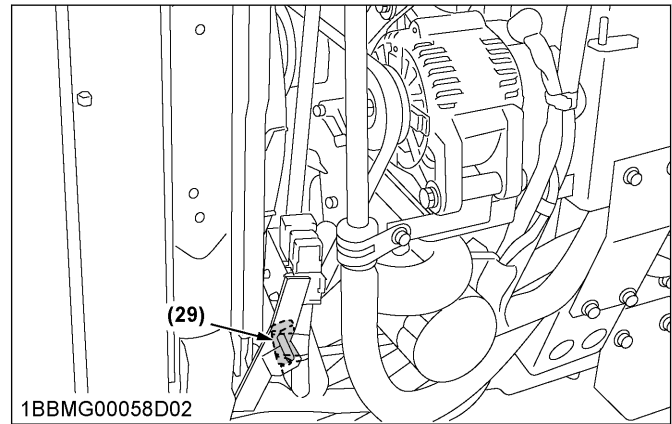
[LX3310 ROPS model]

| Fuse No. | Capacity (A)   | Protected circuit                              |
|----------|----------------|--|
| (1)      | 10             | Key switch                                     |
| (2)      | 10             | ECU  |
| (3)      | 5              | Panel, OPC                                     |
| (4)      | 5              | Alternator                                     |
| (5)      | 10             | ACC relay                                      |
| (6)      | 5              | ECU  |
| (7)      | 15             | Outlet (rear)                                  |
| (8)      | 15             | Outlet (right side)                            |
| (9)      | 5              | Panel  |
| (10)     | 15             | Flasher, hazard                                |
| (11)     | 5              | Spare fuse                                     |
| (12)     | 10             | Spare fuse                                     |
| (13)     | 15             | Spare fuse                                     |
| (14)     | 30             | Spare fuse                                     |
| (15)     | 30             | Engine ECU                                     |
| (16)     | 5              | EGR, air heater                                |
| (17)     | 5              | Air flow sensor                                |
| (18)     | 5              | Main ECU                                       |
| (19)     | 30             | Starter relay                                  |
| (20)     | Slow blow fuse | Check circuit against wrong battery connection |

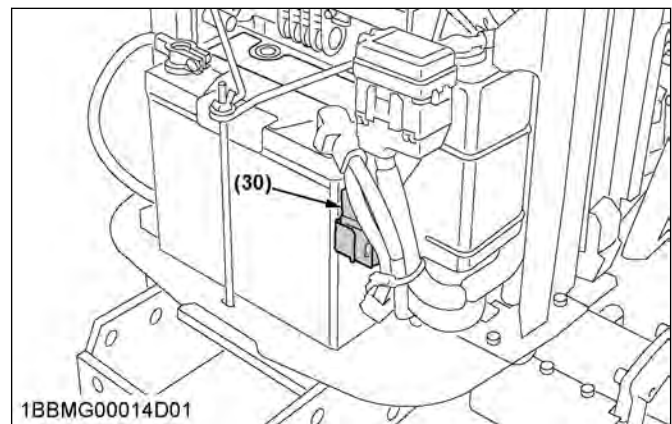
[LX2610/LX2610SU ROPS model]

| Fuse No. | Capacity (A)   | Protected circuit                              |
|----------|----------------|--|
| (1)      | 5              | Key switch (starter)                           |
| (2)      | 15             | OPC controller, hazard                         |
| (3)      | 5              | Panel  |
| (4)      | 30             | Starter relay                                  |
| (5)      | 5              | Grow relay                                     |
| (6)      | 10             | Head light                                     |
| (7)      | 5              | Panel, OPC                                     |
| (8)      | 10             | Alternator, ACC relay                          |
| (9)      | 15             | Outlet (right side)                            |
| (10)     | 15             | Outlet (rear)                                  |
| (11)     | 5              | Spare fuse                                     |
| (12)     | 10             | Spare fuse                                     |
| (13)     | 15             | Spare fuse                                     |
| (14)     | 30             | Spare fuse                                     |
| (20)     | Slow blow fuse | Check circuit against wrong battery connection |

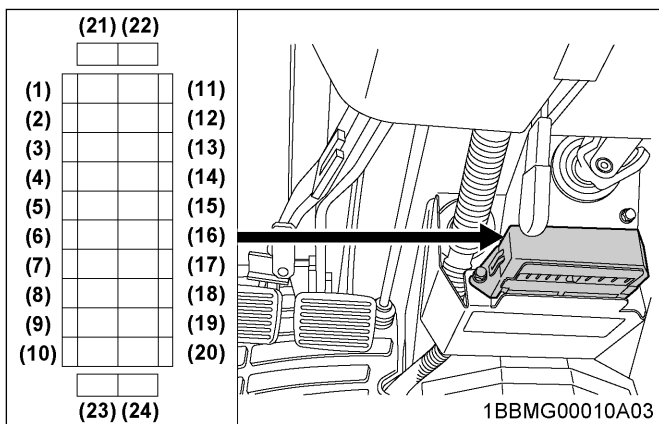
[LX3310 CAB model]



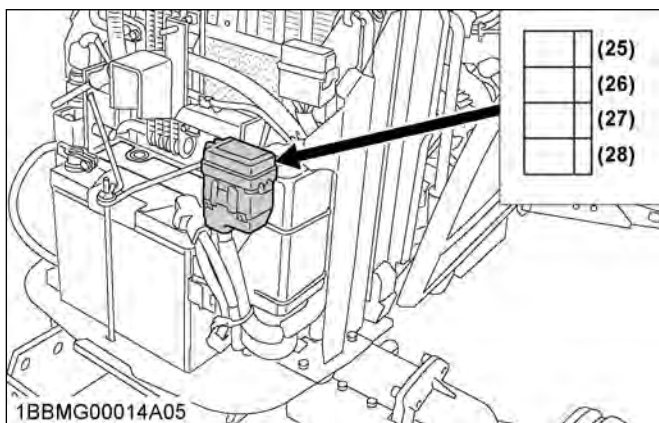
[LX2610/LX3310 CAB model]



[LX2610/LX3310 CAB model]



[LX3310 CAB model]



**[LX3310 CAB model]**

| Fuse No. | Capacity (A)   | Protected circuit                              |
|----------|----------------|--|
| (1)      | 5              | ECU  |
| (2)      | 15             | Work light                                     |
| (3)      | 20             | Defogger                                       |
| (4)      | 15             | Radio, dome light                              |
| (5)      | 20             | Air conditioner blower                         |
| (6)      | 15             | Wiper  |
| (7)      | 7.5            | Air conditioner                                |
| (8)      | 5              | Radio  |
| (9)      | 10             | Key switch                                     |
| (10)     | 15             | ACC1 relay                                     |
| (11)     | —              | —  |
| (12)     | 15             | Outlet (rear)                                  |
| (13)     | 5              | Panel  |
| (14)     | 15             | Outlet (front)                                 |
| (15)     | 15             | Flasher, hazard                                |
| (16)     | —              | —  |
| (17)     | 5              | Alternator                                     |
| (18)     | 5              | ACC relay                                      |
| (19)     | 5              | Panel, OPC                                     |
| (20)     | 10             | ECU  |
| (21)     | 5              | Spare fuse                                     |
| (22)     | 10             | Spare fuse                                     |
| (23)     | 15             | Spare fuse                                     |
| (24)     | 20             | Spare fuse                                     |
| (25)     | 30             | Engine ECU                                     |
| (26)     | 5              | EGR, Air heater                                |
| (27)     | 5              | Air flow sensor                                |
| (28)     | 5              | Main ECU                                       |
| (29)     | 30             | Starter relay                                  |
| (30)     | Slow blow fuse | Check circuit against wrong battery connection |

**[LX2610 CAB model]**

| Fuse No. | Capacity (A)   | Protected circuit                              |
|----------|----------------|--|
| (1)      | 15             | Outlet (rear)                                  |
| (2)      | 15             | Outlet (front)                                 |
| (3)      | 15             | Head light, horn                               |
| (4)      | 15             | OPC, controller, hazard                        |
| (5)      | 5              | Panel  |
| (6)      | 15             | Wiper  |
| (7)      | 7.5            | Air conditioner                                |
| (8)      | 5              | Radio  |
| (9)      | 20             | ACC relay                                      |
| (10)     | —              | —  |
| (11)     | 10             | Key switch                                     |
| (12)     | 30             | Starter relay                                  |
| (13)     | 5              | Panel, OPC                                     |
| (14)     | 10             | Alternator, ACC relay                          |
| (15)     | 5              | Glow relay                                     |
| (16)     | 20             | Defogger                                       |
| (17)     | 15             | Radio, dome light                              |
| (18)     | 20             | Air conditioner, blower                        |
| (19)     | 15             | Work light                                     |
| (20)     | 5              | Key switch (starter)                           |
| (21)     | 10             | Spare fuse                                     |
| (22)     | 5              | Spare fuse                                     |
| (23)     | 20             | Spare fuse                                     |
| (24)     | 15             | Spare fuse                                     |
| (30)     | Slow blow fuse | Check circuit against wrong battery connection |

**4. Replacing light bulb**

- **Headlights:**  
Take the bulb out of the light body and replace it with a new one.
- **Other lights:**  
Detach the lens and replace the bulb.

| Light                        | Capacity    |      |
|------------------------------|-------------|------|
|                              | ROPS        | CAB  |
| Headlight                    | 23 W        |      |
| Tail light                   | 8 W         |      |
| Turn signal and hazard light | 21 W /32 CP |      |
| Front work light             | —           | 35 W |
| Dome light (room lamp)       | —           | 5 W  |

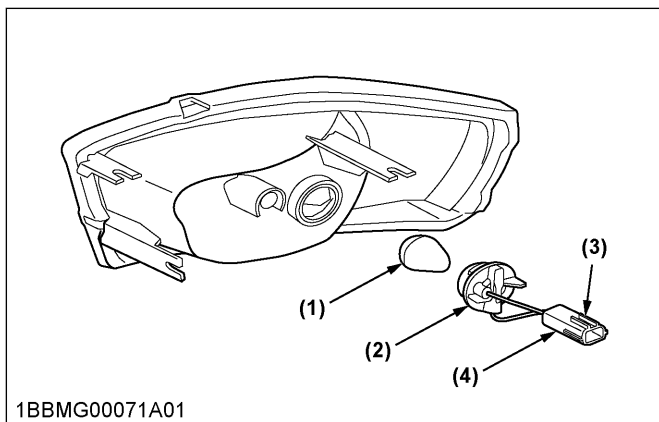
### 5. Replacing headlamp

#### CAUTION

To avoid personal injury:

- Be careful not to drop the bulb, hit anything against the lamp, apply excess force, or get the lamp scratched. If broken, glass may cause injury. Pay more attention to halogen lamps in particular, which have high pressure inside.
- Before replacing the lamp, be sure to turn off the light and wait until the bulb cools down; otherwise, you may get burned.

1. While pushing the center lock buttons, pull and remove the electrical connector.
2. Turn left to remove connector and then remove the bulb.
3. Replace it with a new bulb and reinstall the headlamp assembly in the reverse order.



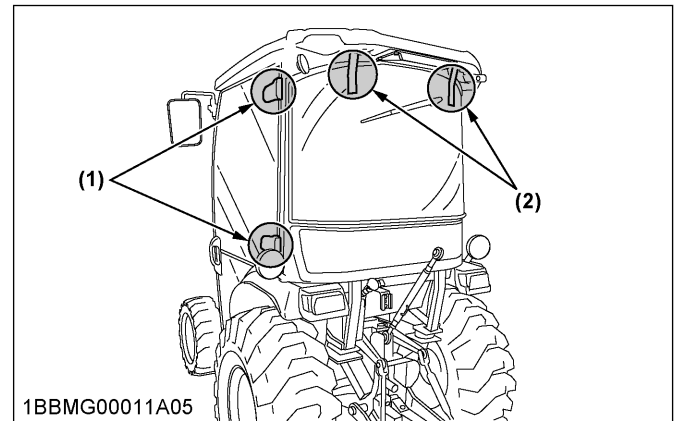
1BBMG00071A01

- (1) Bulb  
 (2) Connector  
 (3) Lock buttons  
 (4) Electrical connector

#### IMPORTANT :

- Be sure to use a new bulb of the specified wattage.
- Never touch the bulb surface (glass) with bare hands. Fingerprints, for example, may break the bulb.

### 6. Lubricating points for door and window (CAB model)

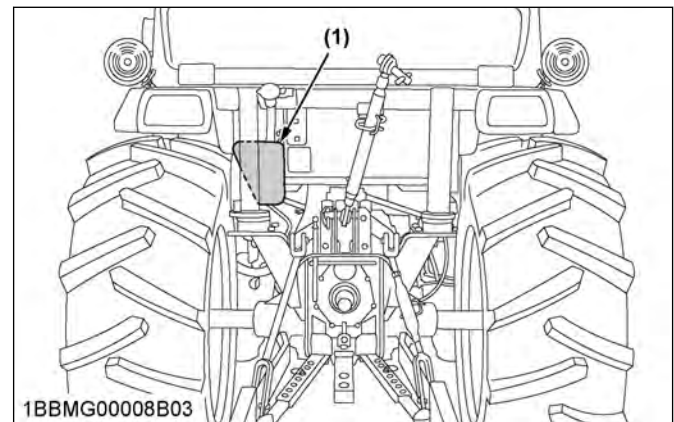


1BBMG00011A05

- (1) Door hinge  
 (2) Rear window hinge

### 7. Adding washer liquid (CAB model)

Add a proper amount of automobile washer liquid.



1BBMG00008B03

- (1) Washer liquid tank

|                      |                        |
|----------------------|------------------------|
| Washer tank capacity | 1.5 L (0.40 U.S.gals.) |
|----------------------|------------------------|

### 8. Checking amount of refrigerant (gas) (CAB model)

#### WARNING

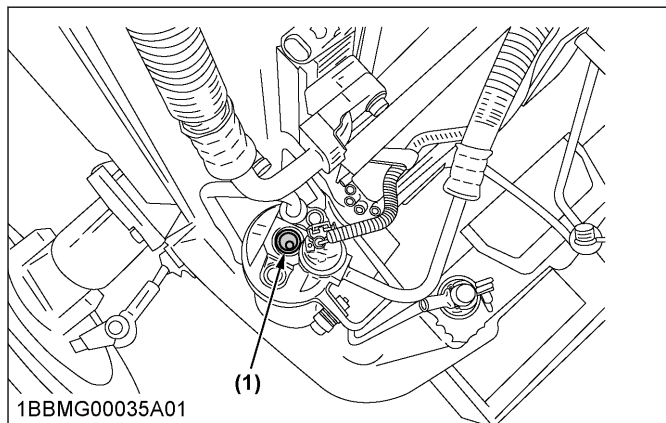
To avoid personal injury or death:

- Liquid contact with eyes or skin may cause frostbite.
- In the event of a leakage, wear safety goggles. Escaping refrigerant can cause severe injuries to eyes.
- In contact with a flame, R134a refrigerant produces a toxic gas.
- Do not disconnect any part of the refrigeration circuit of the air conditioning system. Consult your local KUBOTA Dealer for assistance and service.

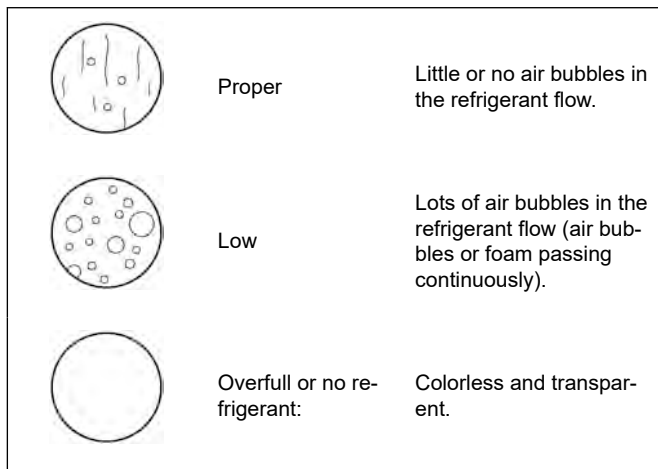
A shortage of refrigerant impairs the air-conditioner performance. Check the following points. If it is indicated that the amount of refrigerant is extremely low, ask your dealer to inspect and charge.

**Checking procedure**

1. Run the air-conditioner in the following conditions.
  - Engine speed - About 1500 rpm
  - Temperature control lever - Maximum cooling position (leftmost)
  - Fan switch - Highest blow
  - Air-conditioner switch - "ON"
2. Look into the sight glass to see if the refrigerant is flowing through its circuit.



(1) Sight glass



**IMPORTANT :**

- Charge only with R134a not R12 refrigerant (gas).

**9. Replacing radiator hose (water pipes)**

Replace the hoses and clamps.  
(See Checking the radiator hoses and clamps on page 133.)

**NOTE :**

- Replace the mentioned parts if any deterioration (crack, hardening, scar or deformation) or damage has occurred. However, they must be replaced every 4 years regardless of the condition.

**10. Replacing fuel lines**

Consult your local KUBOTA Dealer for this service.

**NOTE :**

- Replace the mentioned parts if any deterioration (crack, hardening, scar or deformation) or damage has occurred. However, they must be replaced every 4 years regardless of the condition.

**11. Replacing the intake air line**

Consult your local KUBOTA Dealer for this service.

**NOTE :**

- Replace the mentioned parts if any deterioration (crack, hardening, scar or deformation) or damage has occurred. However, they must be replaced every 4 years regardless of the condition.

# STORAGE

## WARNING

To avoid personal injury or death:

- Do not clean the machine while the engine is running.
- To avoid the danger of exhaust fume poisoning, do not operate the engine indoors without proper ventilation.
- When storing the tractor, remove the key from the key switch to prevent unauthorized persons from operating the tractor and getting injured.

## TRACTOR STORAGE

If you intend to store your tractor for an extended period of time, follow the procedures outlined below.

These procedures will ensure that the tractor is ready to operate with minimum preparation when it is removed from storage.

1. Check the bolts and nuts for looseness and tighten if necessary.
2. Apply grease to tractor areas where bare metal will rust, and also to pivot areas.
3. Detach the weights from the tractor body.
4. Inflate the tires to a pressure a little higher than usual.
5. Change the engine oil and run the engine to circulate oil throughout the engine block and internal moving parts for about 5 minutes.
6. With all implements lowered to the ground, coat any exposed hydraulic cylinder piston rods with grease.
7. Remove the battery from the tractor. Store the battery following the battery storage procedures. (See Checking battery condition on page 118.)
8. Keep the tractor in a dry place where the tractor is sheltered from the elements. Cover the tractor.
9. Store the tractor indoors in a dry area that is protected from sunlight and excessive heat. If the tractor must be stored outdoors, cover it with a waterproof tarpaulin. Jack the tractor up and place blocks under the front and rear axles so that all 4 tires are off the ground. Keep the tires out of direct sunlight and extreme heat.

### IMPORTANT :

- When washing the tractor, be sure to stop the engine. Allow sufficient time for the engine to cool down before washing.

- Cover the tractor after the muffler and the engine have cooled down.

## REMOVING THE TRACTOR FROM STORAGE

1. Check the tire air pressure and inflate the tires if needed.
2. Jack the tractor up and remove the support blocks from under the front and rear axles.
3. Install the battery. Before installing the battery, be sure it is fully charged.
4. Check the fan belt tension.
5. Check all fluid levels (engine oil, transmission and hydraulic oil, engine coolant, and any attached implements).
6. Start the engine. Observe all gauges. If all the gauges are functioning properly and have normal readings, move the tractor outside. Once outside, park the tractor and let the engine idle for at least 5 minutes. Shut the engine off and walk around the tractor and make a visual inspection looking for evidence of oil or water leaks.
7. With the engine fully warmed up, release the parking brake and test the brakes for proper adjustment as you move forward. Adjust the brakes as necessary.



# TROUBLESHOOTING

## ENGINE TROUBLESHOOTING

If something is wrong with the engine, refer to the following table for the cause and its corrective measure.

| Trouble   |               | Cause  | Countermeasure  |
|---|---------------|--|---|
| Engine is difficult to start or will not start. |               | <ul style="list-style-type: none"> <li>No fuel flow.</li> </ul>  | <ul style="list-style-type: none"> <li>Check the fuel tank and the fuel filter. Replace filter if necessary.</li> </ul>   |
|   |               | <ul style="list-style-type: none"> <li>Air or water is in the fuel system.</li> </ul>  | <ul style="list-style-type: none"> <li>Check to see if the fuel line coupler bolt and nut are tight.</li> <li>Bleed the fuel system. (See Bleeding fuel system on page 136.)</li> </ul>   |
|   |               | <ul style="list-style-type: none"> <li>In winter, oil viscosity increases, and engine revolution is slow.</li> </ul>   | <ul style="list-style-type: none"> <li>Use oils of different viscosities, depending on ambient temperatures.</li> <li>Use engine block heater (optional).</li> </ul>  |
|   |               | <ul style="list-style-type: none"> <li>Battery becomes weak and the engine does not turn over quick enough.</li> </ul>   | <ul style="list-style-type: none"> <li>Clean battery cables and terminals.</li> <li>Charge the battery.</li> <li>In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the tractor only when the tractor is going to be used.</li> </ul> |
| Insufficient engine power.                      |               | <ul style="list-style-type: none"> <li>Insufficient or dirty fuel.</li> <li>The air cleaner is clogged.</li> </ul>   | <ul style="list-style-type: none"> <li>Check the fuel system.</li> <li>Clean or replace the element.</li> </ul>   |
| Engine stops suddenly.                          |               | <ul style="list-style-type: none"> <li>Insufficient fuel.</li> </ul>   | <ul style="list-style-type: none"> <li>Refuel.</li> <li>Bleed the fuel system if necessary.</li> </ul>  |
| Exhaust fumes are colored.                      | Black         | <ul style="list-style-type: none"> <li>Fuel quality is poor.</li> <li>Too much oil.</li> <li>The air cleaner is clogged.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Change the fuel and fuel filter.</li> <li>Drain excess oil if necessary.</li> <li>Clean or replace the element.</li> </ul>   |
|   | Blue<br>White | <ul style="list-style-type: none"> <li>The inside of the exhaust muffler is damp with fuel.</li> <li>Injection nozzle trouble.</li> <li>Fuel quality is poor.</li> </ul> | <ul style="list-style-type: none"> <li>Heat the muffler by applying load to the engine.</li> <li>Check the injection nozzle.</li> <li>Change the fuel and fuel filter.</li> </ul>   |
| Engine overheats.                               |               | <ul style="list-style-type: none"> <li>Engine overloaded.</li> </ul>   | <ul style="list-style-type: none"> <li>Shift to lower gear or reduce load.</li> </ul>   |
|   |               | <ul style="list-style-type: none"> <li>Low coolant level.</li> </ul>   | <ul style="list-style-type: none"> <li>Fill cooling system to the correct level; check radiator and hoses for loose connections or leaks.</li> </ul>  |
|   |               | <ul style="list-style-type: none"> <li>Loose or defective fan belt.</li> </ul>   | <ul style="list-style-type: none"> <li>Adjust or replace fan belt.</li> </ul>   |
|   |               | <ul style="list-style-type: none"> <li>Dirty radiator core or grille screens.</li> </ul>   | <ul style="list-style-type: none"> <li>Remove all trash.</li> </ul>   |
|   |               | <ul style="list-style-type: none"> <li>Coolant flow route corroded.</li> </ul>   | <ul style="list-style-type: none"> <li>Flush cooling system.</li> </ul>   |

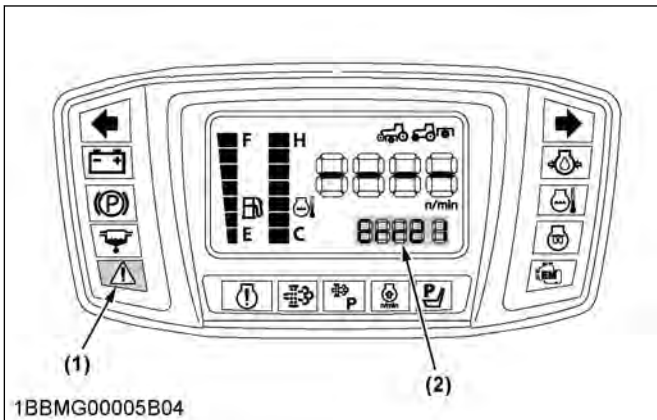
If you have any questions, contact your local KUBOTA Dealer.

| Trouble   | Operator's action   |
|---|---|
| Engine not overheated, but engine warning indicator on. | Stop the engine and get it restarted. If the engine fails to restart or the indicator stays on, immediately contact your local KUBOTA dealer. |

If you have any questions, contact your local KUBOTA Dealer.

## POWERTRAIN TROUBLE SHOOTING

If something is wrong with the powertrain, the master system warning indicator starts blinking and the error code shown below is displayed on the liquid crystal display, indicating the location of the trouble. If an error code appears, immediately contact your local KUBOTA Dealer for repairs.



(1) Master system warning indicator

(2) Error code

### LX3310

| Displayed error code | Trouble                            | Operator's action                 |
|----------------------|------------------------------------|-----------------------------------|
| "Err2"               | Fuel sensor trouble                | Contact your local KUBOTA Dealer. |
| "Err3"               | Meter panel memory reading trouble |                                   |
| "E-84"               | Throttle sensor trouble            |                                   |
| "E-93"               | Starter relay trouble              |                                   |
| "E-94"               | OPC output trouble                 |                                   |
| "E-21"               | CAN communication trouble          |                                   |
| "Err21"              | CAN communication trouble          |                                   |
| "E-40"               | Sensor supply trouble              |                                   |
| "E-30"               | Accelerator adjustment trouble     |                                   |

### LX2610/LX2610SU

| Displayed error code | Trouble                            | Operator's action                 |
|----------------------|------------------------------------|-----------------------------------|
| "Err1"               | Water temperature sensor trouble   | Contact your local KUBOTA Dealer. |
| "Err2"               | Fuel sensor trouble                |                                   |
| "Err3"               | Meter panel memory reading trouble |                                   |

# OPTIONS

## LIST OF OPTIONS

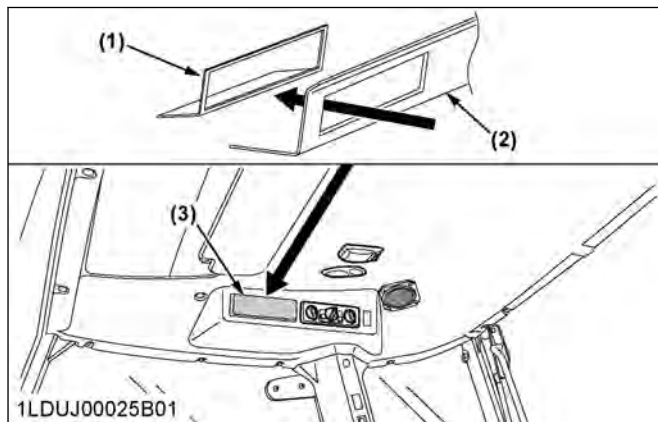
Consult your local KUBOTA Dealer for further details.

- Rear work light  
High visibility for night work
- Front end weights for front ballast
- Mounting kit (front end weights) to mount front end weights
- Engine block heater for extremely cold weather starting
- Radio CD player with weather band (CAB model)
- Rear remote hydraulics
- Spacer kit (ROPS model)

## MOUNTING THE SUPPORT PLATE

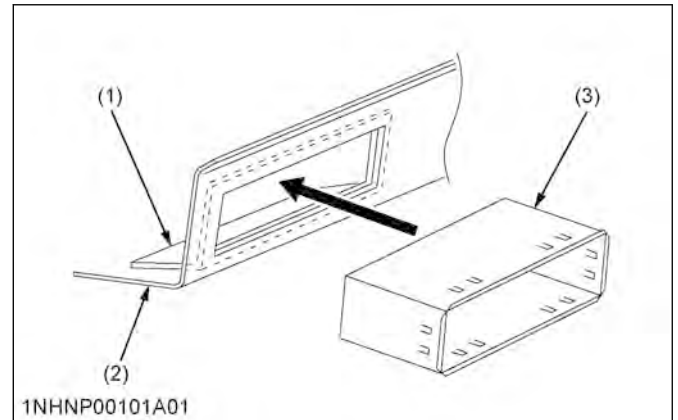
### 1. Installation procedures

1. Insert the support plate through the CD player mounting opening of the inner roof.



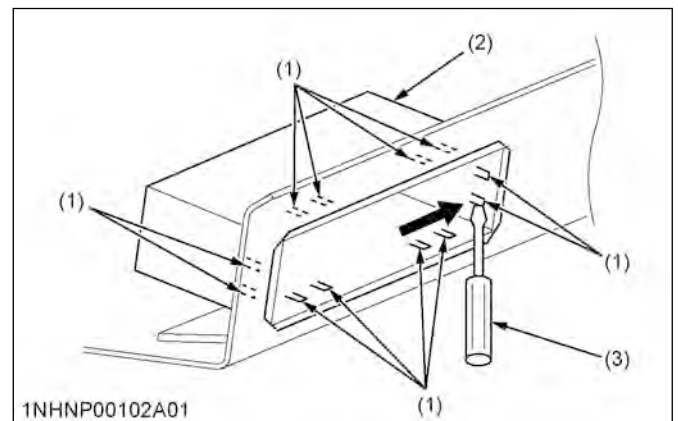
- (1) Support plate
- (2) Inner roof
- (3) CD player mounting opening

2. Insert the mounting collar into the inner roof and support plate.



- (1) Support plate
- (2) Inner roof
- (3) Mounting collar

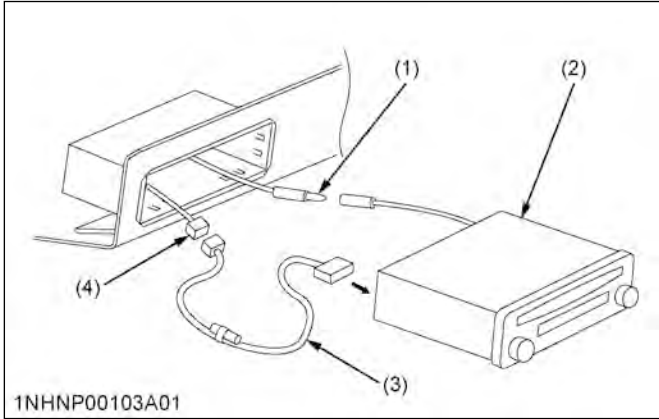
3. Bend the mounting tabs of the mounting collar out with a screwdriver.



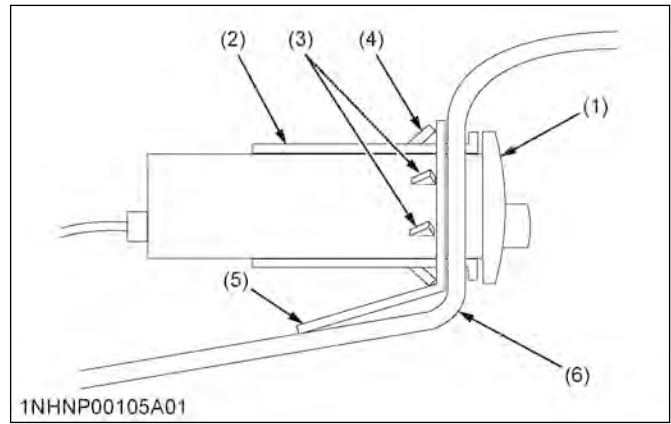
- (1) Mounting tabs
- (2) Mounting collar
- (3) Screwdriver

4. Connect the antenna lead to the CD player.

- Connect the power connector to the CAB wire harness.

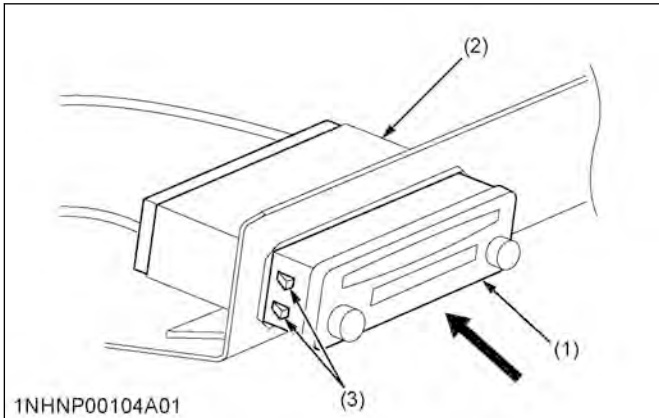


- Antenna lead
- CD player
- Power connector
- CAB wire harness



- CD player
- Mounting collar
- Side tabs
- Mounting tabs
- Support plate
- Inner roof

- Insert the CD player into the mounting collar and push it in until "click" is heard. The CD player is secured to the mounting collar by the side tabs.



- CD player
- Mounting collar
- Side tabs

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