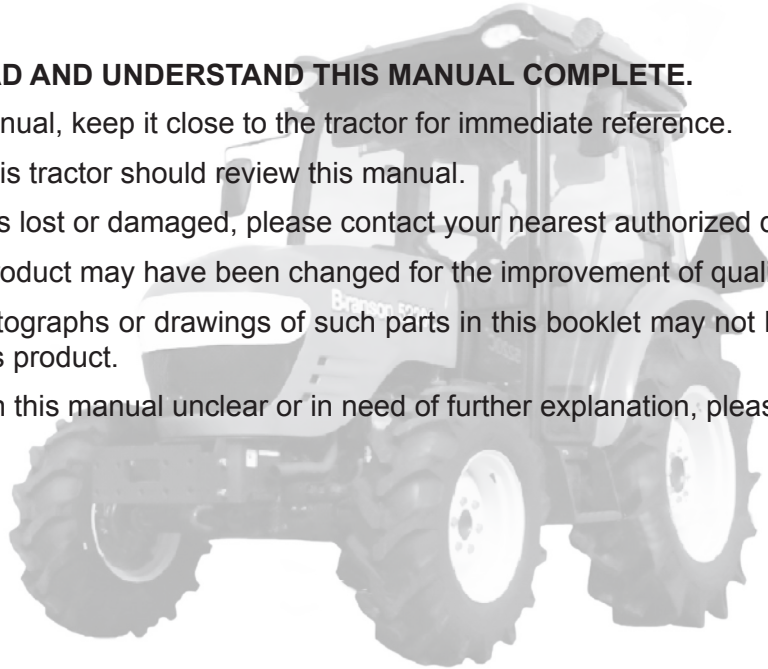
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PREFACE

THANK YOU FOR PURCHASING A BRANSON 25 SERIES TRACTOR.



► BEFORE USE, READ AND UNDERSTAND THIS MANUAL COMPLETE.

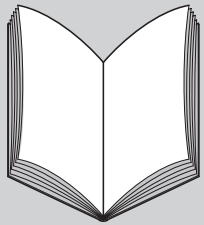
1. After reading this manual, keep it close to the tractor for immediate reference.
2. Any one operating this tractor should review this manual.
3. In case this manual is lost or damaged, please contact your nearest authorized dealer for a copy.
4. Some parts of this product may have been changed for the improvement of quality or for safety reason.
5. In this case, the photographs or drawings of such parts in this booklet may not be the same as the actual parts installed on this product.
6. If you find anything in this manual unclear or in need of further explanation, please contact your authorized dealer for inquiry.

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SAFETY AND VEHICLE DAMAGE WARNING

The instructions given with the following marks are very important for your safety.

DANGER	**Failure to observe the instruction given with this mark may result in death or injury.**
WARNING	**Failure to observe the instruction given with this mark may expose you to the risk of death or injury.**
CAUTION	**Failure to observe the instruction given with this mark may expose you to injury.** **• The section, " To Ensure Safe Operation," on the following pages details safety points to be observed to ensure safe operation of your tractor.** **• Please make sure you read it carefully before operating the tractor.**
NOTE	**This instruction is to give additional description to operator so that he/she can operate the machine more effectively.**
IMPORTANT	**Read this Manual for correct and safe use of the product. Failure to use the product properly may result in an accident. Keep this Manual close to the tractor after you have read it.**

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SYMBOL MARKS OF CONTROLLER

This manual includes symbol marks of controller to ease tractor's maneuverability and maintenance. These meanings are as below, so carefully read it for a proper function.

Direction Lamp (LH)	DPF	Engine Oil Pressure Lamp
Direction Lamp (RH)	PTO	Battery Charging Lamp
Low Beam	Parking Brake	4WD
High Beam	Preheat	

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"USE AND DISPOSAL" POLICY CONCERNED WITH ENVIRONMENT PRESERVATION

We try our best to preserve the environment, always concerned about our environmental impact at each step of planning, development, production, distribution, use and disposal of products, and for our overall operations through “environmentally friendly” management system. We comply with international environmental regulations, environmental regulations designated by country and local authorities and other requirements with which we are in agreement, and we work towards the prevention of environmental pollution and the conservation of resources. We provide environmental education and have an awareness campaign to raise environmental awareness among all our employees and members of the supporting companies.

Here we introduce “Use and Disposal” policy concerned with environment preservation as follows.

1. Please read the operator’s manual though for global environment protection and avoid overload job. Overload on the machine shortens the product life and increases the harmful exhaust gas which cause air pollution due to the incomplete combustion.
2. When replacing various fluids (for engine, transmission, hydraulics, etc.) by yourself, don’t dispose the used oil to anywhere not recommended. It can pollute the ground and water seriously. Please contact our local dealer to dispose it legally.
3. Observe the operator’s manual and store or dispose the waste product properly. Rust, oil, etc leaked from waste product improperly stored can pollute the ground and water. Accordingly for a waste product disposal, contact the necessarily “approved waste collection and recycling facility” to discard the used machinery legally.

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1. GENERAL PRECAUTIONS

TO ENSURE SAFE OPERATION 1-2

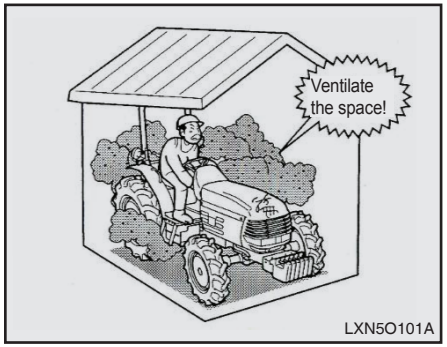
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TO ENSURE SAFE OPERATION
BEFORE USING THE MACHINE

Make sure to observe the instruction given in this section to avoid equipment failure or personal injury or death.



LXN5O101A

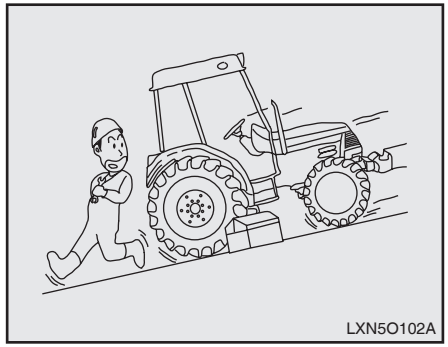
⚠ WARNING

Beware of exhaust gas;

- **Start engine in a well ventilated area.**

[Otherwise]

The exhaust gas can cause intoxication and lead to fatal consequences.


LXN5O102A

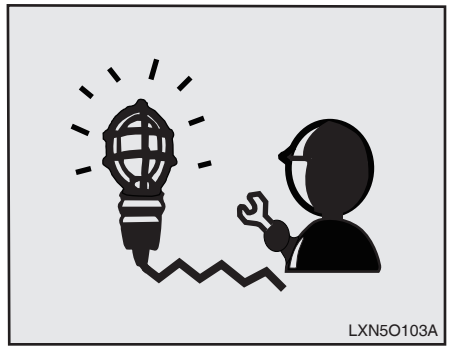
⚠ WARNING

Maintenance on a flat and safe place:

- **Select a flat and safe location to secure the tractor in place and will not cause a risk to people passing by. Before carrying out the maintenance. Block the front and rear tires to prevent moving while servicing tracks.**

[Otherwise]

An unexpected accident may occur, such as overturning of the tractor.


LXN5O103A

⚠ WARNING

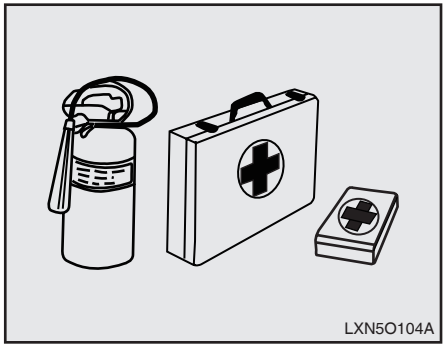
Carry out maintenance in a well-lit place:

- **Make sure work area is properly lighted.**
- **Use safety work lights with protection covering.**

[Otherwise]

An unexpected accident may occur, possibly fire or explosion.

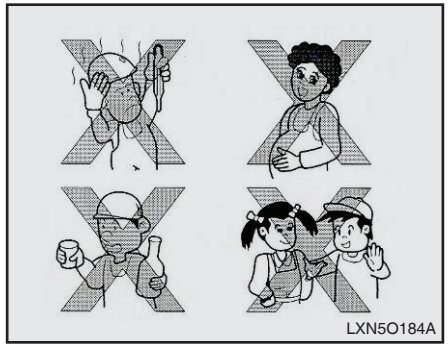
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LXN5O104A

⚠ WARNING

Prepare for emergencies:

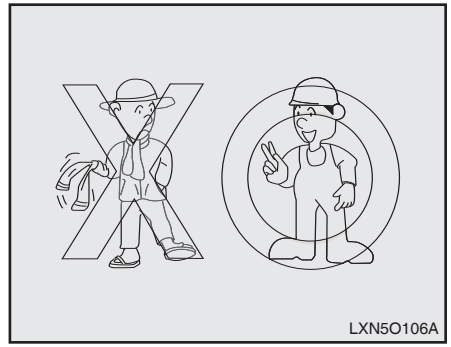
- **Keep a first aid kit and fire extinguisher handy at all times while operating equipment.**


LXN5O184A

⚠ WARNING

Do not drive if you are:

- **Unable to concentrate because of fatigue, under treatment of medicine.**
- **Under the influence on alcohol.**
- **Pregnant.**
- **Under the age of 18.**


LXN5O106A

⚠ WARNING

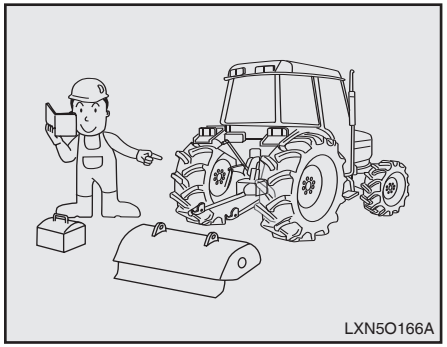
Wear the appropriate clothing when operating equipment

- **Do not wear loose fitting clothes.**
- **Do wear proper foot wear with anti-slip soles, safety helmet and protective comfortable clothes to allow freedom of movement.**

[Otherwise]

You will be exposed to a risk of being entangled will equipment resulting in injury.

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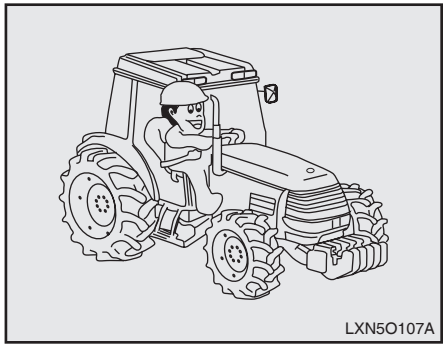

LXN5O166A

Use only recommended implements:

- Be sure to use only implements which are recommended by manufacturer.

[Otherwise]

An un expected accident may occur or tractor may not perform properly.


LXN5O107A

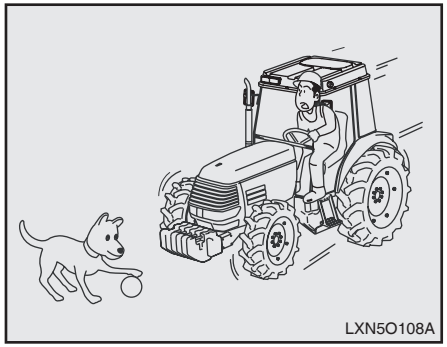
⚠ WARNING

Fasten your seat belt at all times.

- Keep your seat belt fasten at all times while operation tractor.

[Otherwise]

You will be exposed to a risk of death or serious injury if the tractor overturns.


LXN5O108A

⚠ WARNING

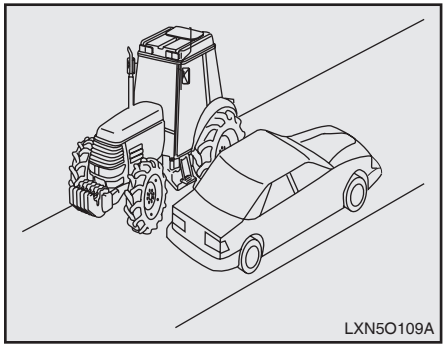
Check the safety of the tractor and start to move slowly:

- Only operate tractor while people or animals are at safe distance away.
- Check around the tractor, start the engine, and move slowly.

[Otherwise]

There is a risk of injury.

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LXN5O109A

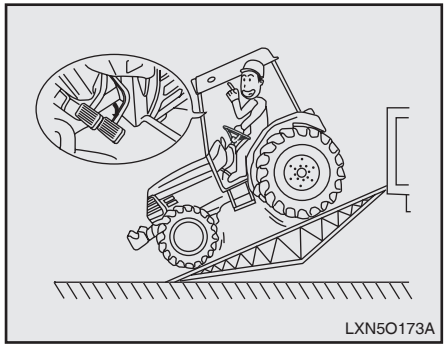
⚠ WARNING

Pay attention to the shoulder of the road :

- **When moving along the unpaved road with ditches or slanted sides, pay attention to the shoulders.**

[Otherwise]

There is a risk of falling over.


LXN5O173A

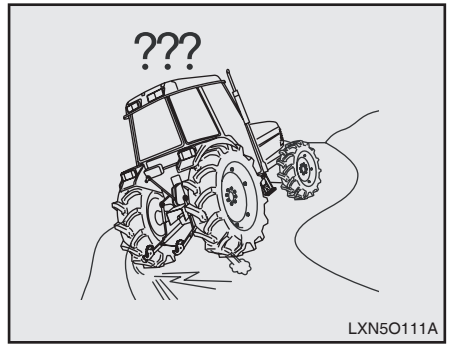
⚠ WARNING

Connect the break pedals when driving on a road:

- **Make sure to connect the brake pedals when driving on a road.**

[Otherwise]

There is a danger of abrupt turning or overturning due to one-sided braking when the brake pedal is depressed.



LXN5O111A

⚠ WARNING

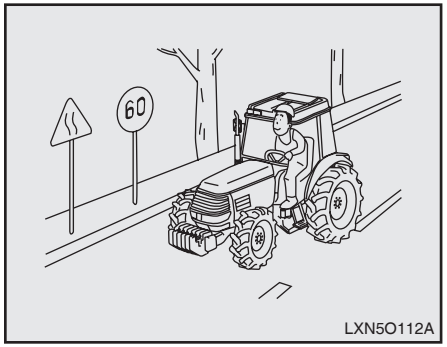
Avoid braking, or turning at excessive Speed:

- **Reduce throttle speed when making a turn, apply brake when driving on a hilly or curved roads.**

[Otherwise]

There is a risk of overturning.

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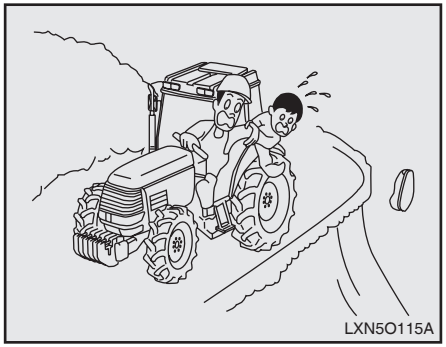
⚠ WARNING

Observe traffic regulations and drive safely:

- **When driving on the road, observe the traffic regulations and wear a helmet.**

[Otherwise]

There is a danger of accident or injury.



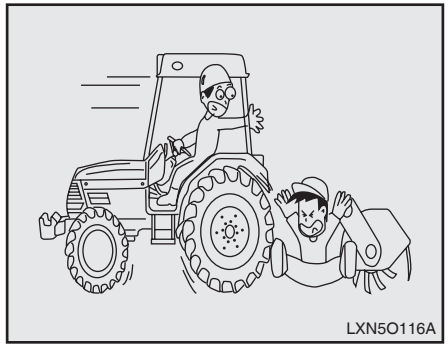
⚠ WARNING

Only driver should be aboard the tractor while in operation:

- **This tractor is designed to allow only one operator. The driver must not allow anyone else to get on the tractor. (Especially, children).**

[Otherwise]

An un expected accident may occur.



⚠ WARNING

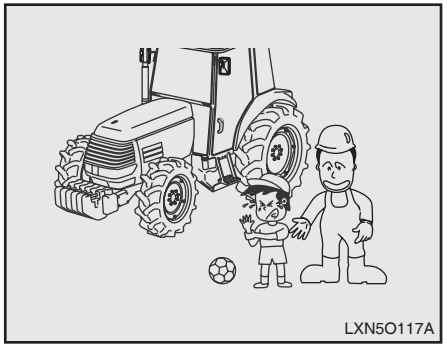
Do not allow anyone near while operating the tractor or implement:

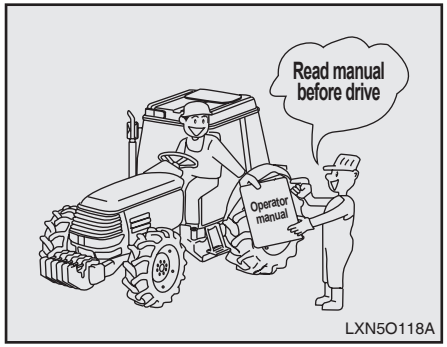
- **When engaging or disengaging the implement by moving the tractor, make sure that no one is allowed around the tractor or between the implement or attachment and the tractor.**

[Otherwise]

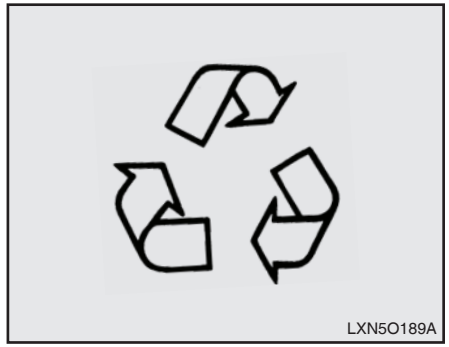
There is a danger of accident or injury.

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LXN5O117A



LXN5O118A


LXN5O189A

⚠ WARNING

Keep children away from the tractor:

- **Fully warn children and keep them away from the tractor at all times.**

[Otherwise]

There is a risk of injury.

⚠ WARNING

Properly train anyone operating:

- **Before allowing other people to use your tractor, explain how to operate and have them read this manual.**

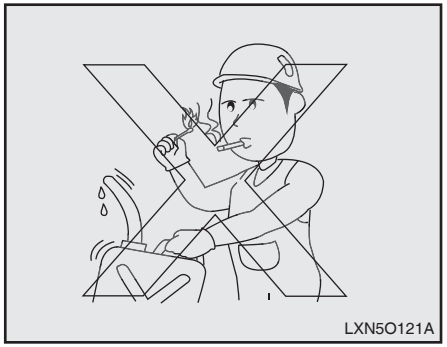
[Otherwise]

There is a danger of death, serious injury, or damage to the tractor.

Treatment of hazardous materials

- Properly discard hazardous materials.
- Hazardous materials from tractor are the following: Coolant, brake oil, oil filter elements, battery and so on.
- When draining fuel, oil or other liquids, use a container without holes. Do not dispose of chemicals on the ground or in rivers or waterways

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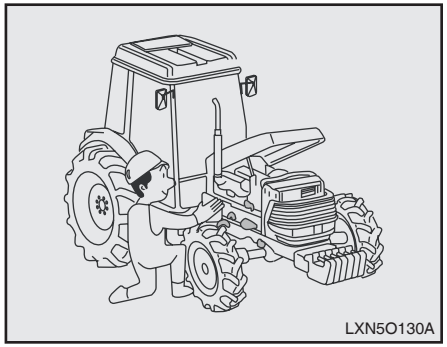

LXN5O121A

No smoking or open flame when fueling:

- Absolutely no lit cigarettes, matches, or lighters anywhere near when fueling the tank.

[Otherwise]

Fire or explosion may occur.

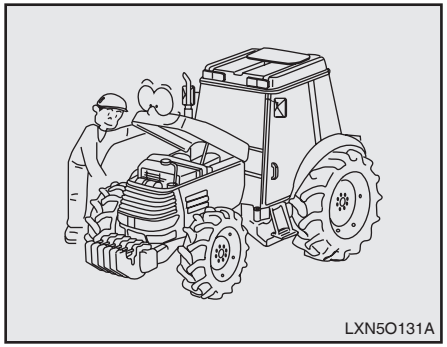

LXN5O130A

⚠ WARNING

- Every day before operating the tractor, check for straws, dust, fuel, or other residue on and around the muffler and the engine and remove them.

[Otherwise]

It may result in a fire.


LXN5O131A

⚠ WARNING

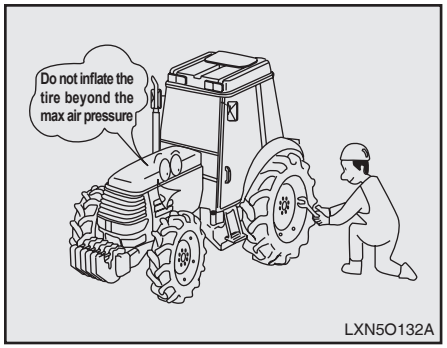
Frequency inspects the electrical parts and wiring:

- Inspect electrical wiring contact insulation to avoid shorting or spark.

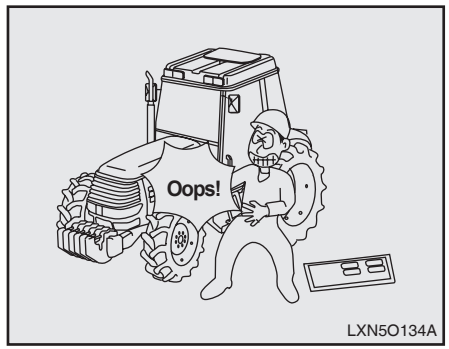
[Otherwise]

There is a risk of fire due to short circuit.

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⚠ CAUTION

Do not over inflate tires:

- **When filling tires with air, do not inflate it beyond the maximum pressure stated in this booklet.**

[Otherwise]

The tire may blow out, causing an injury.

⚠ CAUTION

Use correct tools:

- **Use proper tools to carry out all maintenance procedure.**

[Otherwise]

There is a danger of accident due to poor maintenance.

⚠ CAUTION

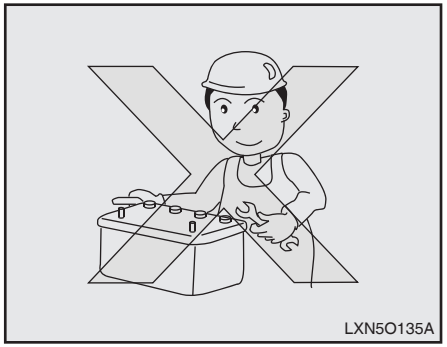
Secure hood and side covers before operate tractor:

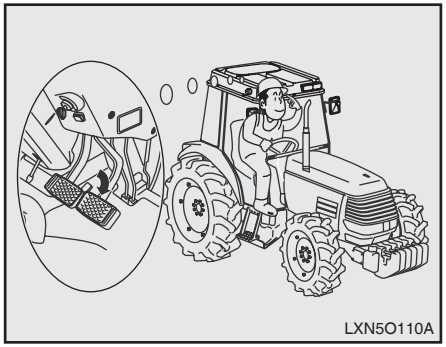
- **After opening the hood for checking or maintenance, make sure to put them in their place.**

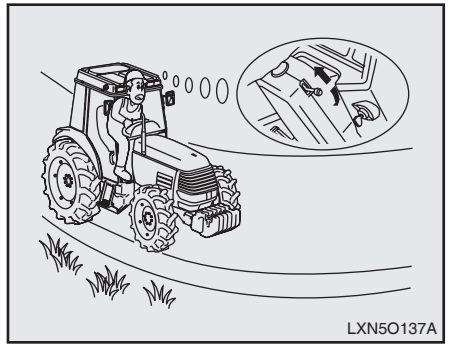
[Otherwise]

There is a risk that you may get entangled in the tractor or get injured.

https://truckmanualshub.com/


LXN5O135A


LXN5O110A


LXN5O137A

⚠ CAUTION

Observe correct procedures when installing or removing the battery:

- **Connect the (+) terminal first when installing the battery, and disconnect the (-) terminal first when removing it.**

[Otherwise]

There is a risk of burn or fire due to short circuit.

⚠ WARNING

Connect dual brake pedal before moving tractor:

- **Check if the brakes work properly and evenly on both sides or if the steering wheel is loose.**

[Otherwise]

There is a risk of accident.

⚠ WARNING

Lock steering tilt before moving tractor:

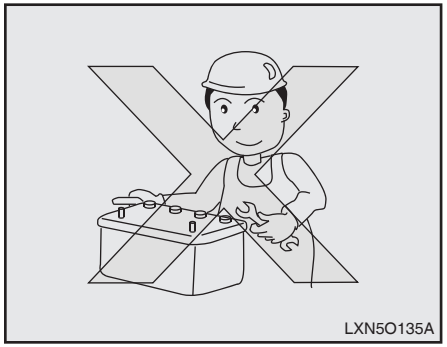
- **Except when you adjust the steering wheel, make sure that the tilt lever is placed in the <Lock> position.**

[Otherwise]

The tractor may not turn to the direction you want and may cause an accident.

https://truckmanualshub.com/

WHILE WORKING


LXN5O135A

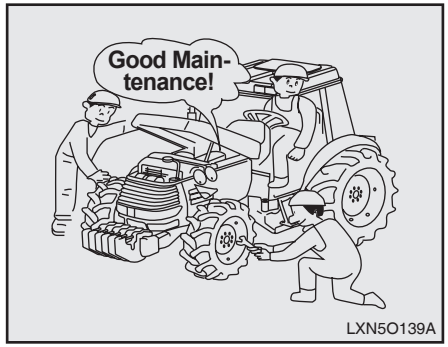
⚠ DANGER

Avoid contact with the battery solution:

- **Be careful that your body or your clothes do not come in contact with the battery solution. If you come in contact with the battery solution, rinse it off with water immediately.**

[Otherwise]

You may get burnt or your clothes may be damaged.



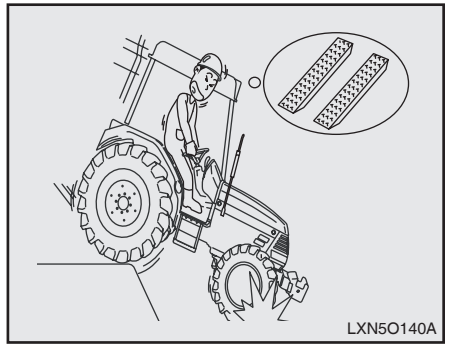
LXN5O139A

⚠ WARNING

- **Perform periodic maintenance, keep each part of the tractor in normal condition.**
- **Make sure to replace all hydraulic hoses and brake hoses once every two years.**

[Otherwise]

There is danger of accident or equipment failure due to poor maintenance.


LXN5O140A

⚠ WARNING

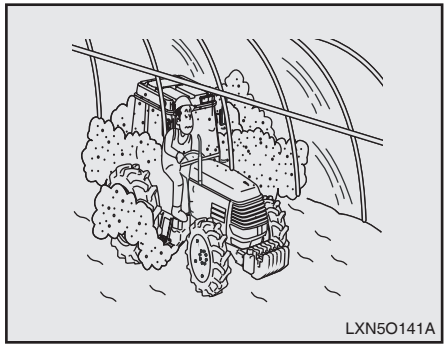
Use the loading ramps when crossing a ditch or a dike:

- **Be sure to use the loading ramps when crossing a ditch or dike, or when passing through soft land. The loading ramps must be suitable for the tractor in width, length and strength.**

[Otherwise]

There is a risk of accident that the tractor may slip or turn over.

https://truckmanualshub.com/


LXN5O141A

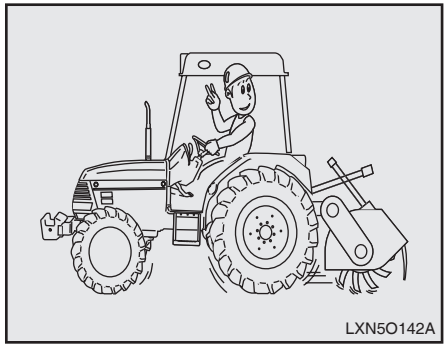
⚠ WARNING

Properly ventilate when working in a green house:

- **Ventilate the area to let out the exhaust gas.**

[Otherwise]

The exhaust gas can cause intoxication and lead to fatal consequences.

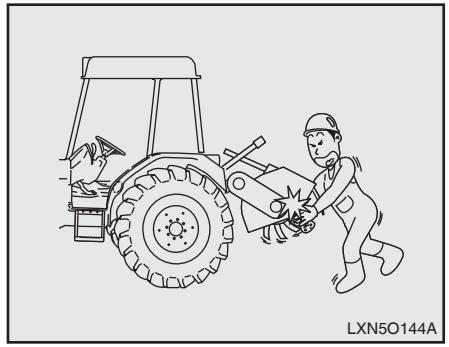

LXN5O142A

⚠ WARNING

- **Pay attention and keep hands on the steering wheel while driving.**

[Otherwise]

There is a risk of accident to injury.


LXN5O144A

⚠ WARNING

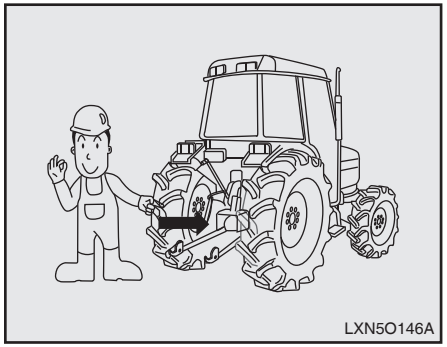
- **Stop the engine when removing grass, etc. from the blades of the cultivator.**

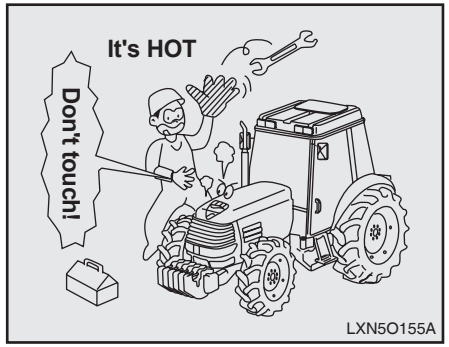
[Otherwise]

There is a danger that you will get entangled in the cultivator or sustain a serious injury.

https://truckmanualshub.com/

AFTER USING THE MACHINE


LXN5O146A



LXN5O155A


LXN5O149A

⚠ CAUTION

Cover the PTO shaft when not in use.

When the PTO shaft is not in use, apply grease to it and keep it covered.

[Otherwise]

There is a risk that you may get entangled or get injured.

⚠ CAUTION

- **During operation and right after the engine is turned off, the muffler is very hot. Avoid touching it, as you may get burnt.**

[Otherwise]

There is a risk of getting burnt.

⚠ CAUTION

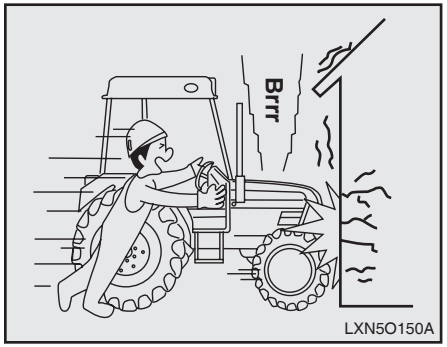
Be careful of high oil pressure:

- **Make sure that the hydraulic coupling or the hose is not loose or damaged. Before separating the hydraulic coupling or the hose, eliminate the high pressure inside the hydraulic system.**

[Otherwise]

The oil under high pressure may cause damage to the skin or injury.

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LXN5O150A

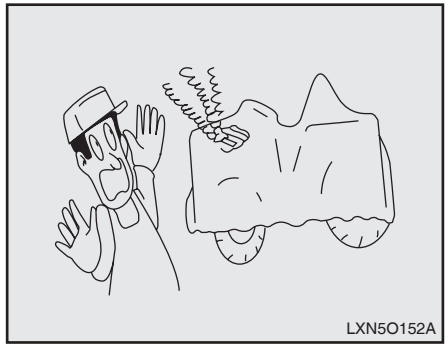
⚠ WARNING

Make sure that you are seated in the driver's seat with your seat belt fastened before start engine:

- **When starting the engine, make sure that you are seated in the driver's seat with your seat belt fastened and the safety inspection has been performed.**

[Otherwise]

An unexpected accident may occur.


LXN5O152A

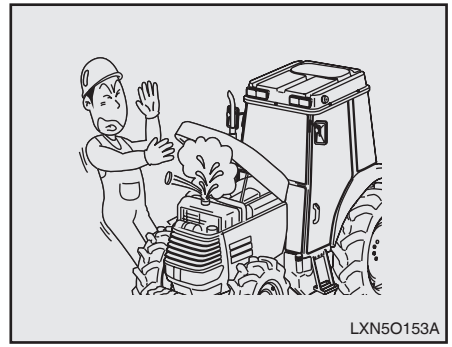
⚠ DANGER

Put tractor cover on only after tractor has cooled down:

- **Put tractor cover on only after parts such as the engine and muffler cooled down.**

[Otherwise]

There is a risk of fire.


LXN5O153A

⚠ DANGER

Do not open the radiator cap when the radiator is hot:

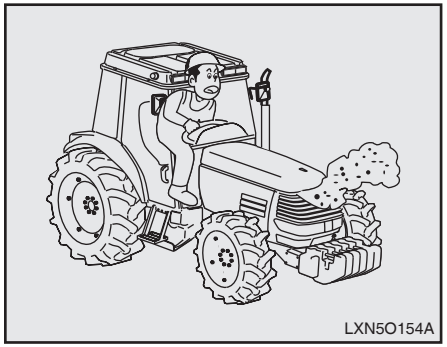
- **Never open the radiator cap when the radiator is heated.**

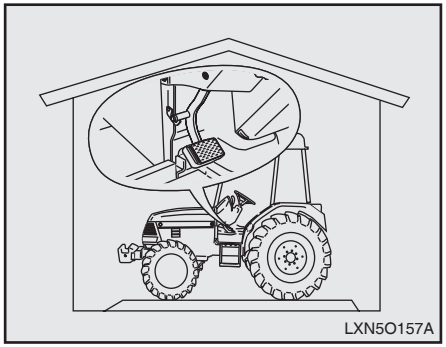
[Otherwise]

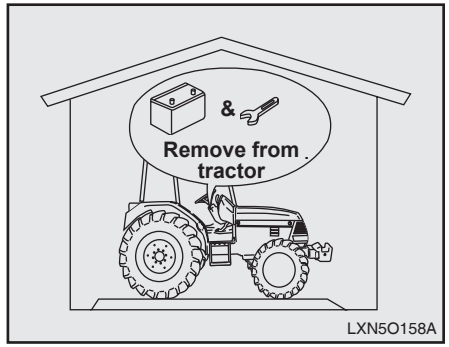
Hot water may splash, causing burns or damage.

https://truckmanualshub.com/

PRECAUTION FOR PROLONGED STORAGE


LXN5O154A


LXN5O157A



LXN5O158A

⚠ WARNING

- **Every day before operating the tractor, check if the electrical wiring is contact with other parts, or if the insulation is peeling off, or the contact points are loose.**

[Otherwise]

There is a danger of fire due to short circuit.

⚠ CAUTION

Disconnect the clutch when storing the tractor for a long time:

- **When storing the tractor for a long period of time, make sure to put the clutch pedal in the "Disconnect" position.**

[Otherwise]

The tractor may move and cause injury or an accident.

⚠ WARNING

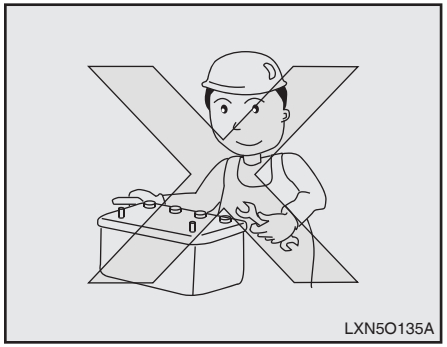
Disconnect the Battery and the key when storing the tractor for a long period of time:

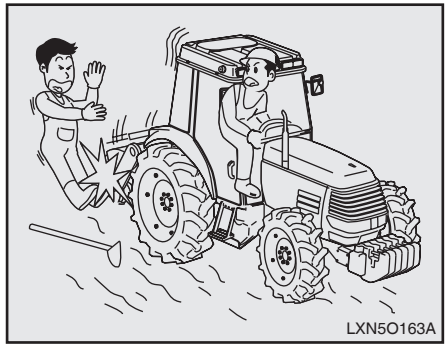
- **When storing the tractor without use for a long period of time, remove the battery and keep the key in a safe place.**

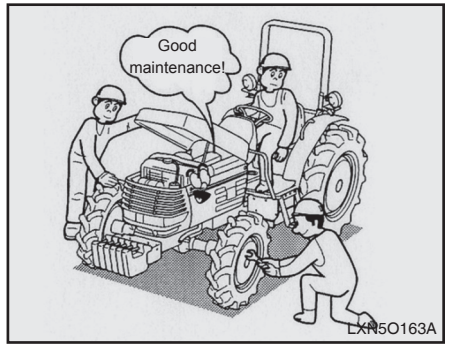
[Otherwise]

There is a risk of an accident.

https://truckmanualshub.com/


LXN5O135A


LXN5O163A



LXN5O163A

⚠ CAUTION

Be sure to connect battery cable on the right side and sequence:

- **When connecting battery to tractor, connect + terminal first then – terminal but when disconnecting battery from tractor disconnect – terminal first then + terminal**

[Otherwise]

There is a risk of fire or injury

⚠ WARNING

Confirm that the implement is down on the ground when starting the engine:

- **When starting the engine, confirm that the position lever is on "Lowest" and that the auto rotary lever is on "Release".**

[Otherwise]

Implement may come down suddenly and cause an injury.

⚠ CAUTION

Maintenance periodically:

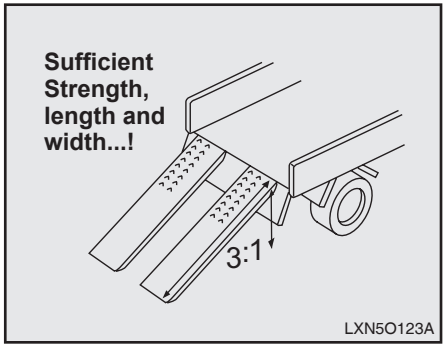
- **After using tractor, visit your local dealer for maintenance, such as oil change and filters.**

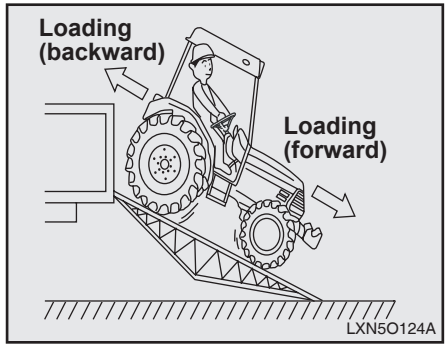
[Otherwise]

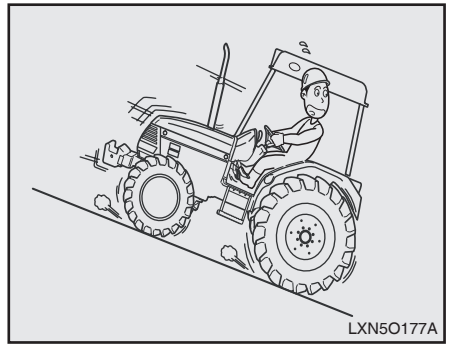
There is a risk of accident due to poor maintenance.

https://truckmanualshub.com/

PRECAUTIONS IN INCLINED AREA







⚠ WARNING

Use loading ramps with proper slope & loading capacity:

- **Loading or unloading must be done on a flat and safe place, the tractor engine switched off, and the parking brake engaged.**
- **The loading ramps must be non-slip and have sufficient strength, length, and width for the tractor.**

[Otherwise]

The tractor may roll backward or fall off causing accident or injury.

⚠ WARNING

Move the tractor backward when loading, and forward when unloading:

- **Move the tractor backward when loading it on the truck, and forward when unloading from the truck.**

[Otherwise]

The tractor may roll backward or fall off causing accident or injury.

⚠ WARNING

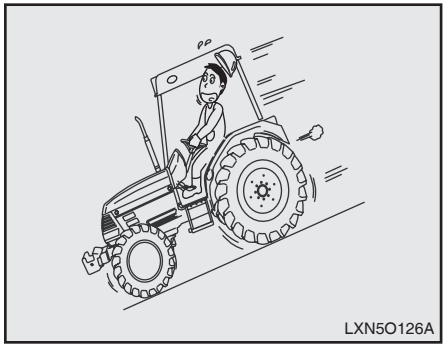
- **Be careful when driving on the loading ramps.**

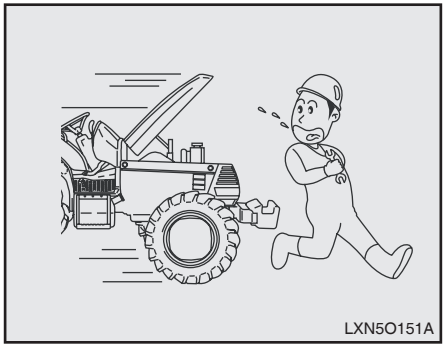
[Otherwise]

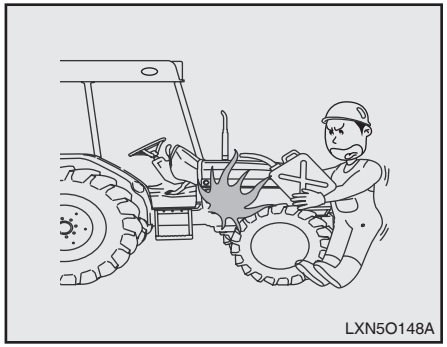
The tractor may roll backwards or fall causing accident or injury.

https://truckmanualshub.com/

MAINTENANCE BEFORE OPERATING


LXN5O126A


LXN5O151A


LXN5O148A

⚠ WARNING

Do not shift gears on slopes or on the loading ramps:

- **When driving on slopes or on the loading ramps, select the proper gear and then do not shift the gear.**

[Otherwise]

There is a risk of slipping, rolling, or overturning.

⚠ CAUTION

Stop the engine before maintenance:

- **Turn engine off before performing any maintenance on tractor.**

[Otherwise]

There is a risk of injury.

⚠ DANGER

Fill the fuel tank only after the engine has cooled:

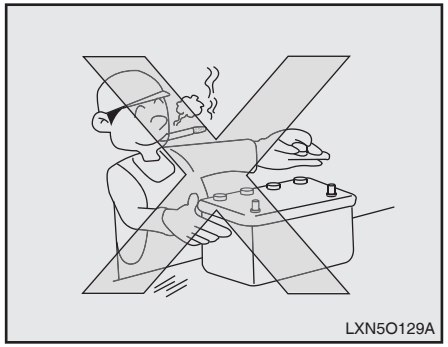
- **Never add the fuel while the engine is running or hot.**

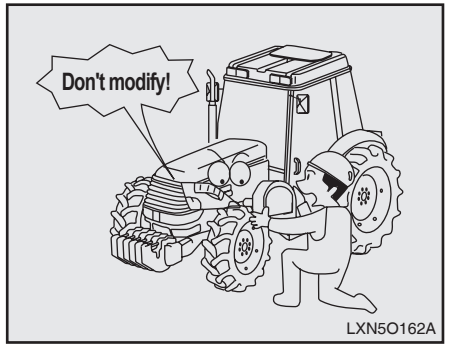
[Otherwise]

The fuel may ignite and result in fire.

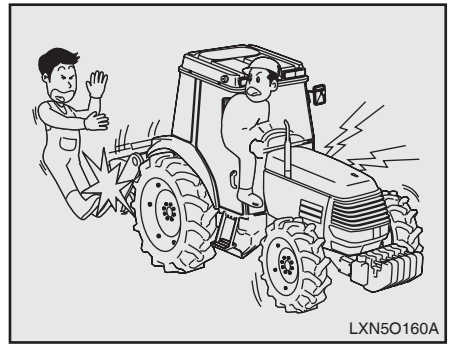
https://truckmanualshub.com/

OTHERS


LXN5O129A



LXN5O162A


LXN5O160A

⚠ DANGER

Use caution when checking the battery:

- **Avoid fire when checking or charging the battery.**

[Otherwise]

You may get burnt due to ignition or explosion of the battery.

⚠ CAUTION

- **Use only the genuine parts or other approved parts. Do not modify the tractor.**

[Otherwise]

There is a danger of accident or injury or equipment failure. Please remember that the failure due to modification may not be covered by warranty.

⚠ WARNING

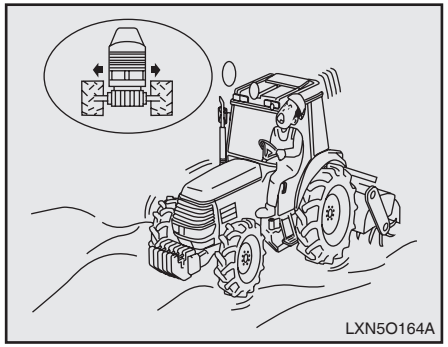
Pay attention when turning with implement.

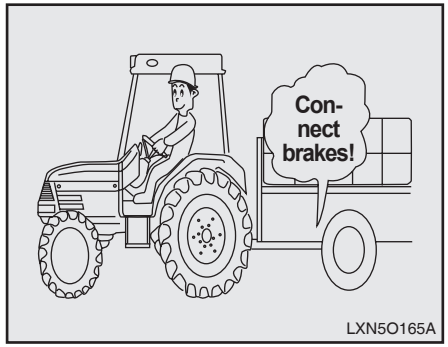
- **Depending on implements, the overall length may become very long. Pay particular attention to people or objects nearby when making a turn.**

[Otherwise]

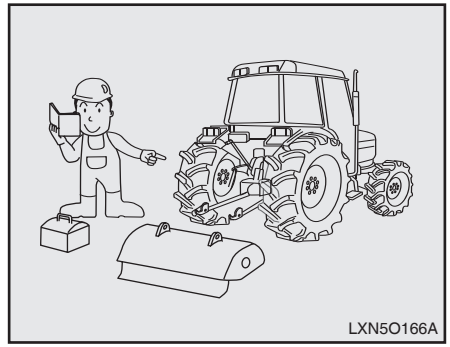
There is a risk of person injury or a collision of the implement.

https://truckmanualshub.com/


LXN5O164A



LXN5O165A


LXN5O166A

⚠ WARNING

Do not shift gears on slopes or on the loading ramps:

- **When driving on slopes or on the loading ramps, select the proper gear and then do not shift the gear.**

[Otherwise]

There is a risk of slipping, rolling, or overturning.

⚠ CAUTION

Stop the engine before maintenance:

- **Turn engine off before performing any maintenance on tractor.**

[Otherwise]

There is a risk of injury.

⚠ WARNING

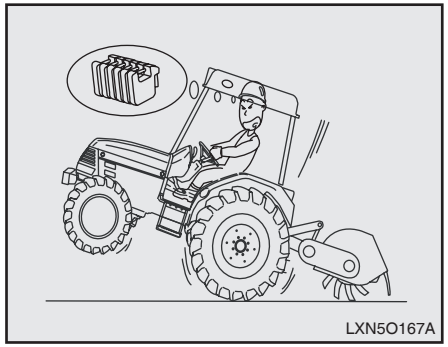
Follow the instruction manual when engaging an implement:

- **When engaging an implement to the tractor, follow the instruction manual for the implement.**

[Otherwise]

There is a risk of personal injury or damage to the tractor.

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LXN5O167A

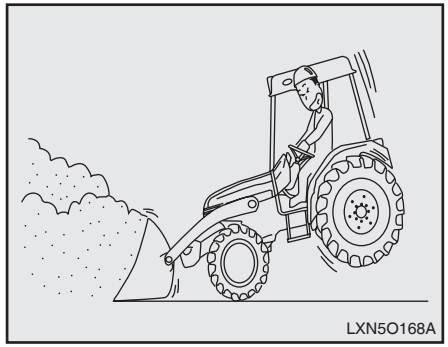
⚠ WARNING

Balance a heavy implement with weights:

- **When engaging a heavy implement or attachment, load the weight on the front to keep the balance of the tractor.**

[Otherwise]

There is a danger of accident or injury due to loss of balance.


LXN5O168A

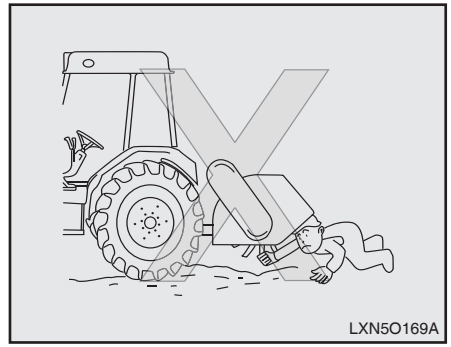
⚠ WARNING

Pay attention to the balance between the front and rear side during loader operation:

- **During loader operation, apply weights or a implement to avoid loosing balance between the front and the rear side tractor.**

[Otherwise]

There is a risk of overturning accident due to loss of balance.


LXN5O169A

⚠ WARNING

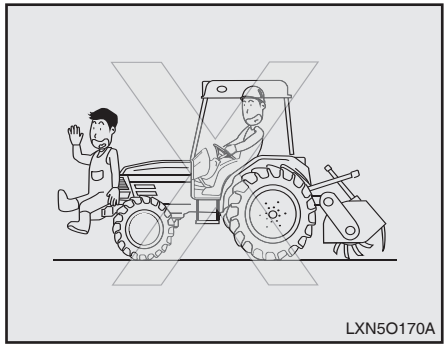
Do not put hands or feet under or near implement:

- **Do not get under implement or put your feet under it.**

[Otherwise]

The implement unit may fall down and there is a risk of injury.

https://truckmanualshub.com/


LXN5O170A

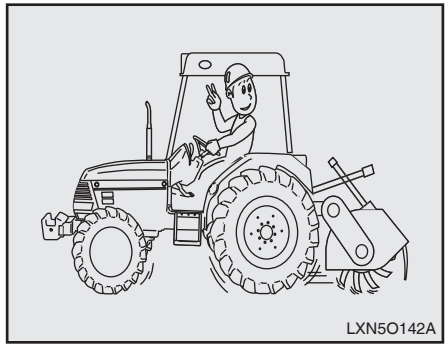
⚠ WARNING

Do not substitute balance weights with a person or anything else:

- **Do not use a person on anything else in place of the balance weight. Use only recommended balance weight for the work.**

[Otherwise]

There is a danger of accident or injury.


LXN5O142A

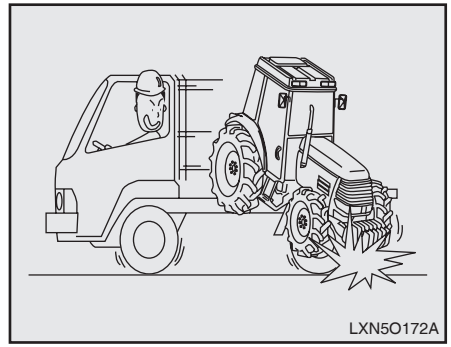
⚠ WARNING

Be careful of unexpected movement when using a the rotary:

- **When working with the rotary, put the rotary slowly on soft or rocky ground. The tractor may be pushed in an unexpected direction by the rotating force of the rotary.**

[Otherwise]

There is a risk of accident or injury.


LXN5O172A

⚠ WARNING

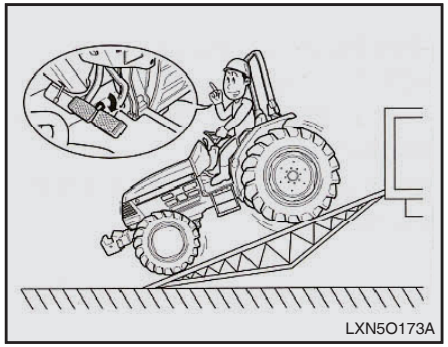
Properly secure tractor during transports:

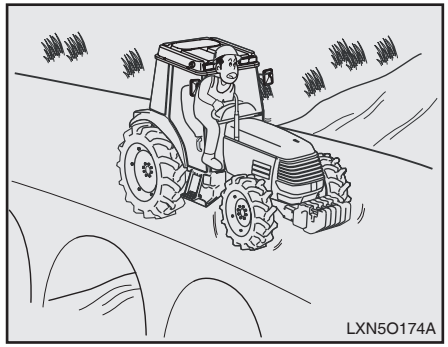
- **When transporting the tractor, apply the parking brake with gear engaged and fasten the tractor to the truck securely sufficient strength.**

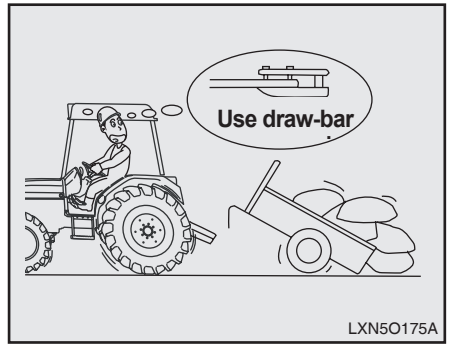
[Otherwise]

There is a risk of accident that the tractor may fall off the truck.

https://truckmanualshub.com/


LXN5O173A


LXN5O174A



LXN5O175A

⚠ DANGER

- **Make sure to connect the brakes on both sides when loading or unloading the tractor.**

[Otherwise]

The tractor may overturn due to one-sided braking when the brake pedal is depressed in an emergency.

⚠ WARNING

- **Make sure to release the differential gear lock when making a turn.**

[Otherwise]

The tractor may not turn to the direction you want and cause an accident and damage the tractor.

⚠ WARNING

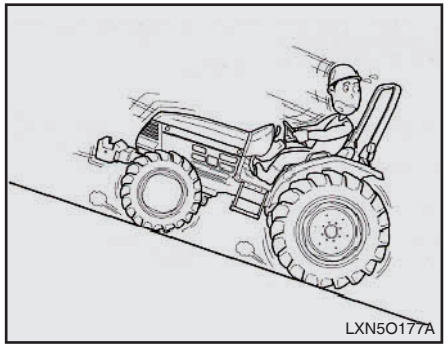
Use the draw-bar when towing:

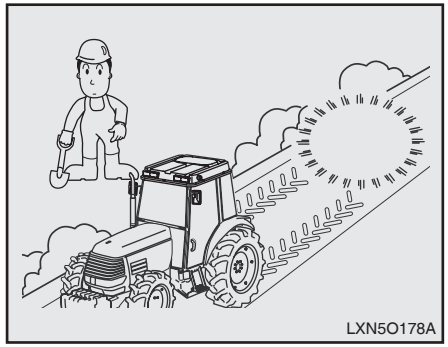
- **Make sure to use the draw-bar when towing. Never tow anything with the top link or the lower link.**

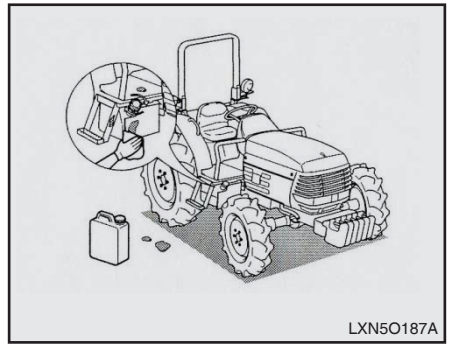
[Otherwise]

Tractor may turn over.

https://truckmanualshub.com/


LXN5O177A


LXN5O178A


LXN5O187A

⚠ WARNING

Pay special attention when on a slope or loading ramps:

- **Pay special attention to driving on a slope or the loading ramps.**

[Otherwise]

There is a risk of accident that the tractor may slip, roll, or overturn.

⚠ WARNING

Turn off engine in a flat area when leaving the tractor:

- **When leaving the tractor, park the tractor on a flat and safe area, turn off the engine, and apply the parking brake. Also, let the implement rest on the ground.**

[Otherwise]

The tractor may move and cause an accident.

⚠ DANGER

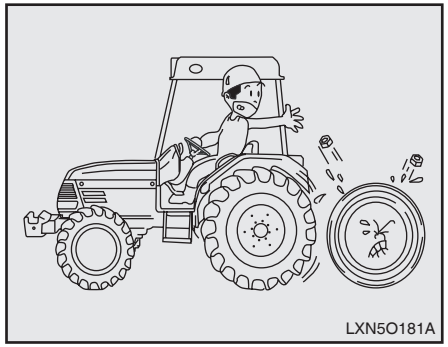
Remove spilled excess fuel before starting engine:

- **After filling the fuel tank, close the fuel filler cap completely and wipe off the excess fuel thoroughly.**

[Otherwise]

It may result in a fire accident or environmental pollution.

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LXN5O181A

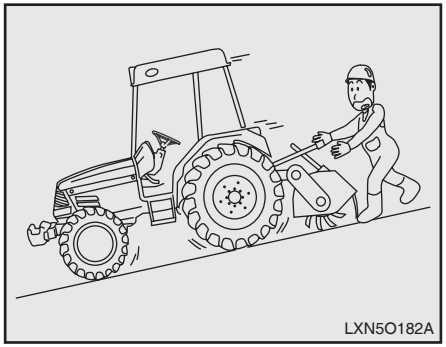
⚠ WARNING

Be aware of the PTO RPM requirements for the implements:

- **Do not use a low-revolution implement at high revolution. Be sure to the designated PTO requirements for the implements.**

[Otherwise]

The performance of the implement may not properly work and there is a risk of accident or injury or damage to the tractor.


LXN5O182A

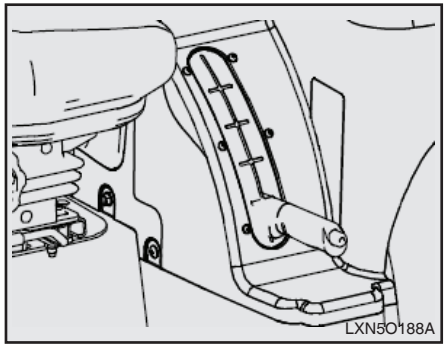
⚠ WARNING

Only engage or disengage implements on flat, level area:

- **Engage or disengage the implement on a flat and safe place. Supply proper lighting at all times and especially night.**

[Otherwise]

There is a danger of accident.


LXN5O188A

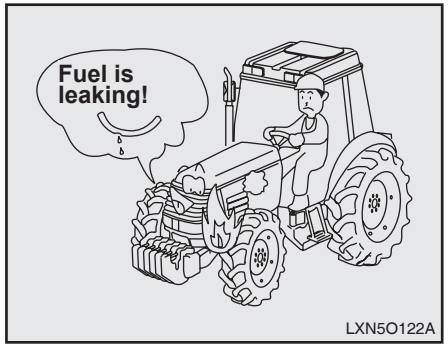
⚠ WARNING

- **Engage the parking brake during warm of engine.**

[Otherwise]

The tractor may move and cause an accident or injury.

https://truckmanualshub.com/



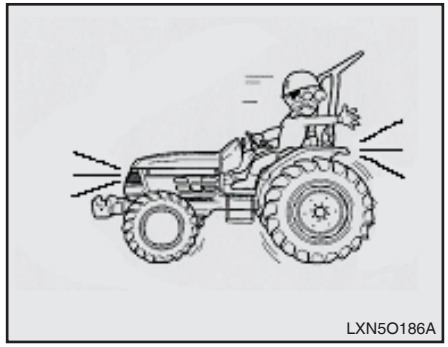
LXN5O122A

⚠ DANGER

- **If fuel pipe is damaged, fuel will leak. Make sure that you check for any leakage.**

[Otherwise]

There is a danger of fire.

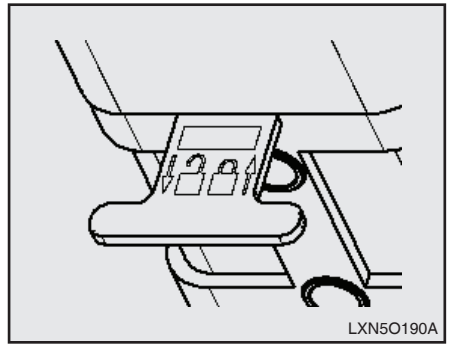

LXN5O186A

⚠ WARNING

- **Check carefully that the various safety lamps such as direction indication lamp works well before driving the tractor**

[Otherwise]

Because signal cannot be send to nearby workers, agricultural equipment, automobiles, etc. It may result in a cause of accident.


LXN5O190A

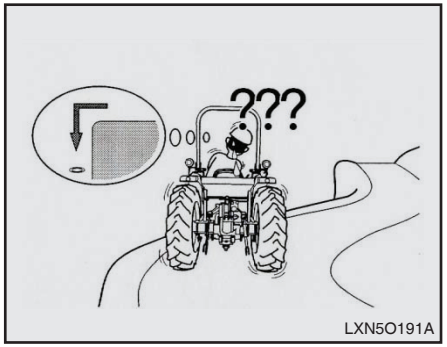
⚠ WARNING

- **Check and perform maintenance to loader after lifting it. And fix the joystick safety lever when dismantling .**

[Otherwise]

There is a danger of an unexpected death accident.

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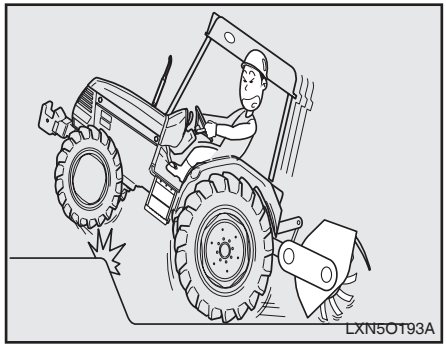
LXN5O191A

⚠ WARNING

- **Check if the brakes work properly and evenly on both sides or if the steering wheel is loose.**

[Otherwise]

There is a risk of overturning.

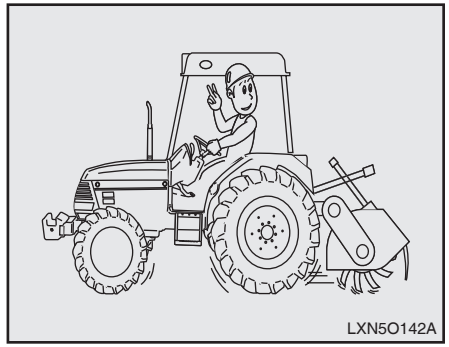

LXN5OT93A

⚠ WARNING

- **Do not look away or take hands off the steering wheel while driving.**

[Otherwise]

There is a danger of accident or injury.


LXN5O142A

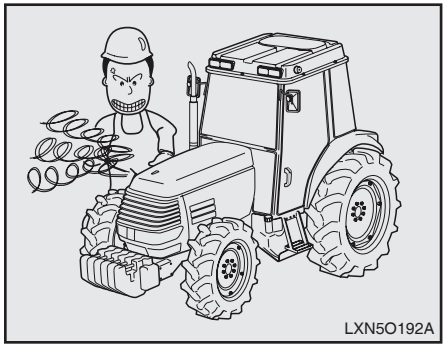
⚠ WARNING

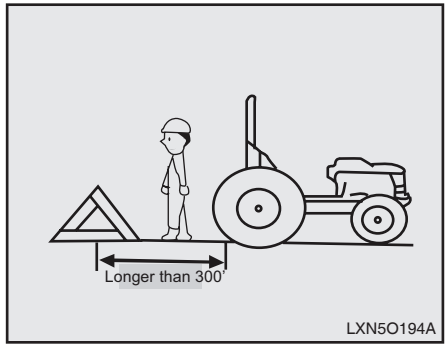
- **When entering or leaving the farming field, or moving across a dike or a raised ground, use the loading ramp and lower the implement as much as possible and so that it does not touch the ground.**

[Otherwise]

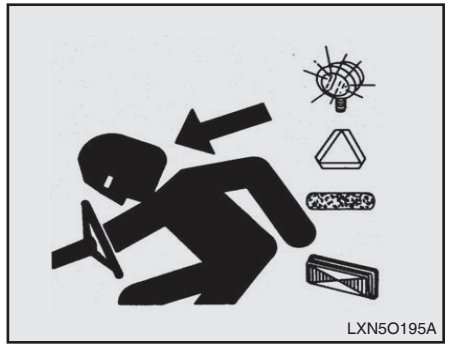
There is a danger that the tractor may turn over due to loss of balance.

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LXN5O192A



LXN5O194A


LXN5O195A

⚠ WARNING

- **Every day before operating the tractor, check for straw, dust fuel, or other residue on and around the muffler and the engine and remove them.**

[Otherwise]

There is a danger of fire.

⚠ WARNING

- **Install the indication of disable car in accordance with the local regulation when a failure occurs during travelling at the 300' rear place from the tractor.**

[Otherwise]

It may cause a danger of rear-end accident.

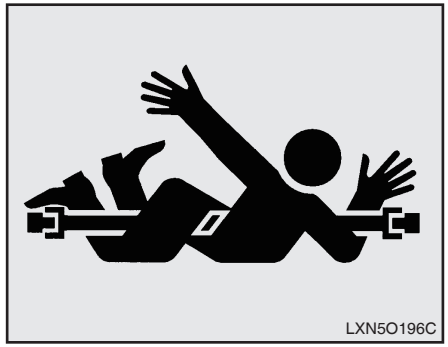
1. When the tractor has an implement attached or is moving slowly, you must often watch the rear side traffic status to avoid a collision accident when travelling on the road. In particular, be careful when you change directions. If necessary, the signal must be given by hand or direction indication lamp must be used.
2. Always turn on the head light, and/or emergency lamp at night and day as requested by the local traffic regulation.

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3. Maintain the light and indication plate so it can be visible always. Immediately repair or attach the broken or missed light and indicating plates.

⚠ CAUTION

- **Item regarding lighting devices. (alarm lamp and safety device)**


LXN5O196C

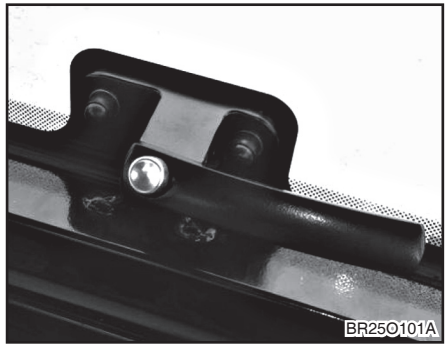

LXN5O197C

1. Entanglement in rotating drive-line can cause serious injury or death.
2. Keep tractor master shield and drive-line shields in place at all times. Make sure rotating shields turn freely.
3. Understand service procedure before doing work. Keep area clean and dry.
4. Never lubricate, service, or adjust machine while it is moving. Keep hands, feet , and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.
5. Securely support any machine elements that must be raised for service work.
6. Keep all parts in good condition

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and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

7. On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.
8. On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.



▶LOCATION AND METHOD OF OPENING OF EMERGENCY EXITS

Removable rear cab window provides a large exit path if

the cab door is blocked in an emergency situation.

The following items, maintenance and adjustment should not be attempted, but contact the nearest authorized dealer, if necessary.

1. Adjustment of engine injection pump

   Adjustment of injection pump without pre-approval may cause to deteriorate the durability and performance of the engine and may cause a fatal malfunction.
2. Adjustment of hydraulic pressure

   Adjustment of hydraulic pressure set at shipment may cause a fatal failure of related components and a subsequent accident.
3. If you intend to adjust the components that may deteriorate durability and performance, always contact your nearest authorized dealer or service department of the head office.

[Otherwise]

Be careful it may cause a fatal error or may not be covered by the warranty.

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Use agricultural chemicals in a safe manner.

1. Agricultural chemicals must be sprayed properly.
2. Spraying of agricultural chemicals must be noticed in advanced and damage to surroundings.
3. Do wear the protective clothing (mask, glove) for agricultural chemicals before spray work.
4. Clean the equipment and tractor just after spraying work.

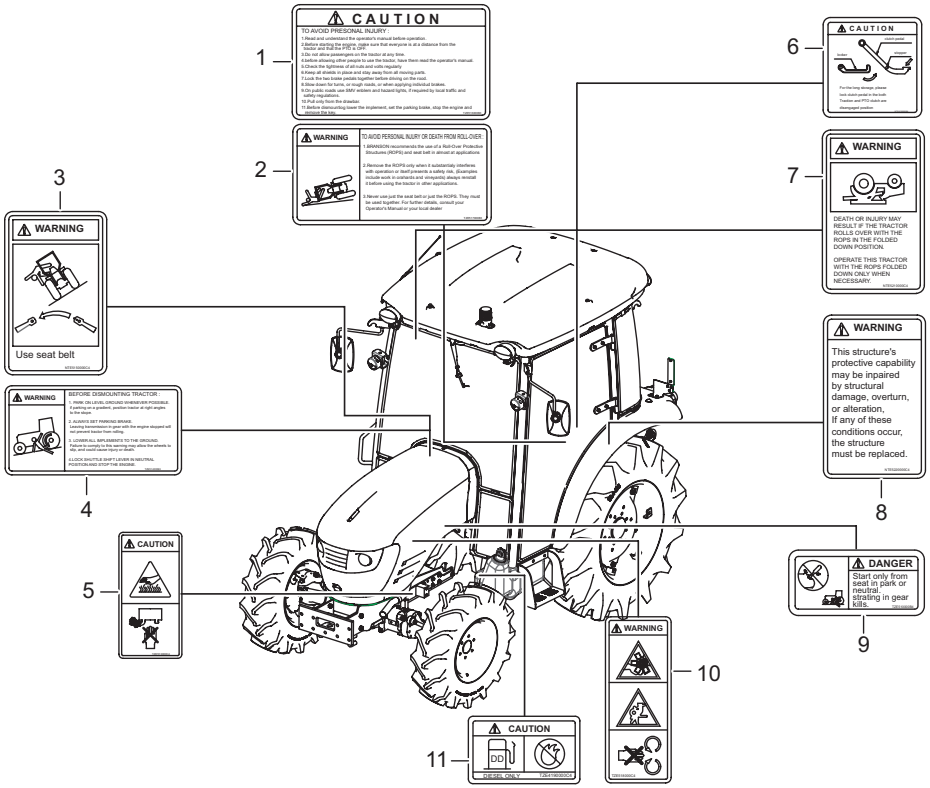
[Otherwise]

You may be exposed to agricultural chemicals by wind.

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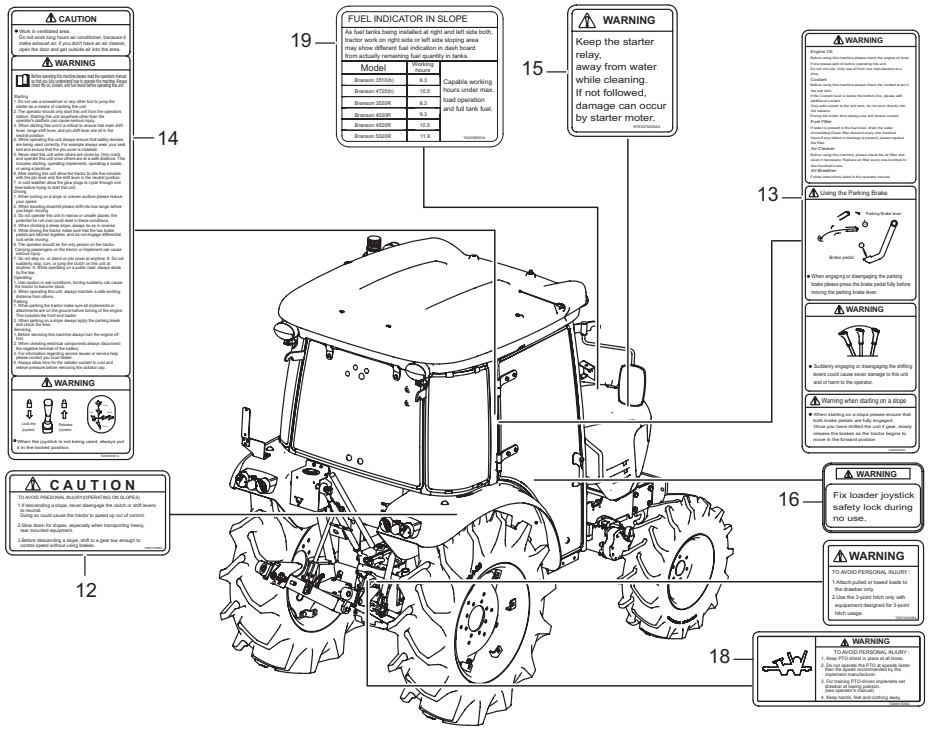
OVERVIEW OF SAFETY DECAL

[CABIN]



No	Part Code	Part Description
1	TZE516000B3	CAUTION-SAFETY
2	TZE517000B3	ROPS
3	NTE5150000C4	SEAT
4	FTE4140000A4	CAUTION-GETTING OFF
5	TZE513000C4	CAUTION
6	NTE4130000B4	CLUTCH PEDAL
7	NTE5210000C4	CAUTION ROPS
8	NTE5220000C4	DANGER
9	TZE510000B4	START
10	TZE518000C4	CAUTION-ROTATION
11	TZE4190000C4	REFUEL

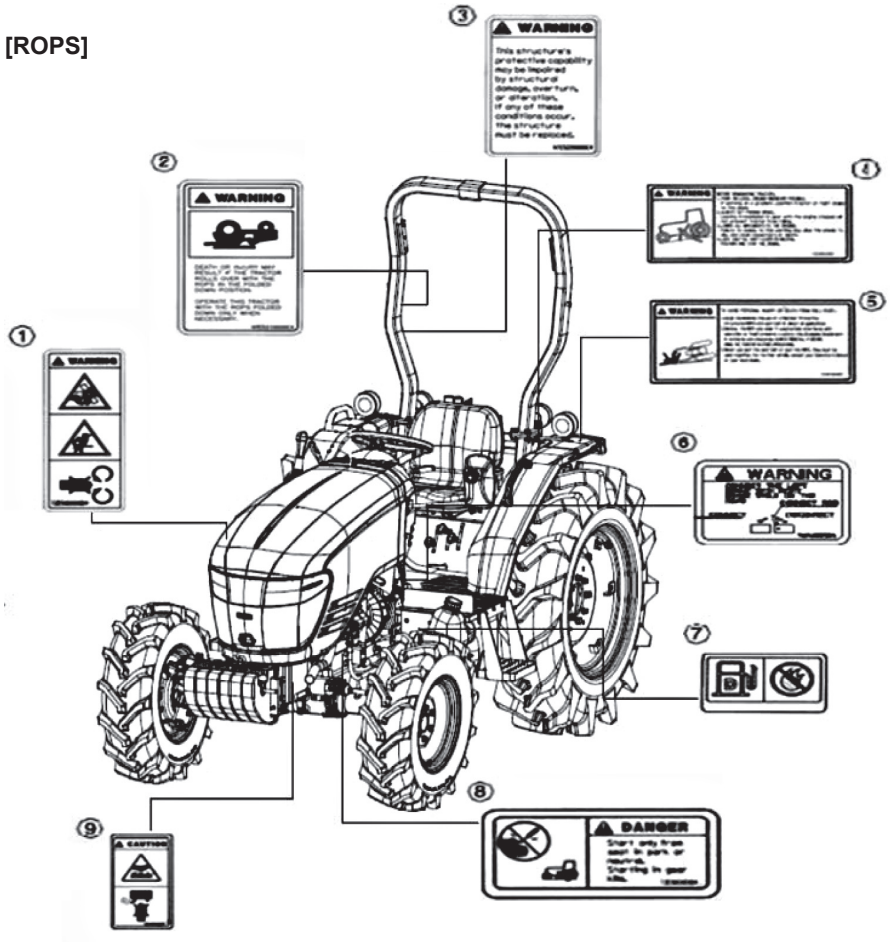
https://truckmanualshub.com/



No	Part Code	Part Description
12	TZE577000B3	CAUTION-SAFETY
13	TA00028504A	WARNING CAUTION
14	TA00028501A	WARNING CAUTION
15	NTE5270000A4	STARTER RELAY
16	-	LOADER
17	TZE512000B4	CAUTION-CONNECTION
18	TA00015596A	PTO COVER
19	TA00026053A	CAUTION-FUEL

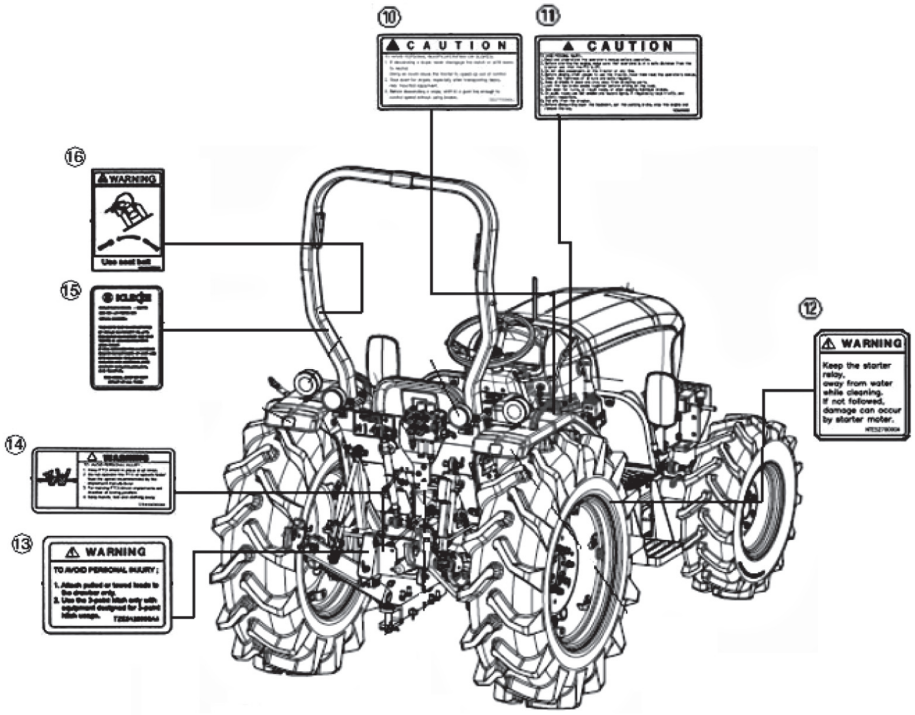
https://truckmanualshub.com/

[ROPS]



No	Part Code	Part Description
1	NTE5210000C4	CAUTION ROPS
2	FTE4140000A4	CAUTION-GETTING OFF
3	TZE513000C4	CAUTION
4	TZE4190000C4	REFUEL
5	NTE5220000C4	DANGER
6	TZE517000B3	ROPS
7	TZE516000B3	CAUTION-SAFETY
8	TZE510000B4	START
9	TZE518000C4	CAUTION-ROTATION

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No	Part Code	Part Description
10	TA00026053A	CAUTION-FUEL
11	TZE577000B3	CAUTION-SAFETY
12	NTE5150000C4	SEAT
13	NTE5270000A4	STARTER RELAY
14		LOADER
15	TZE512000B4	CAUTION-CONNECTION
16	TA00015596A	PTO COVER
17	TZE512000B4	CAUTION-CONNECTION
18	TA00015596A	PTO COVER
19	TA00026053A	CAUTION-FUEL

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Safety decals are provided to ensure safe operation.

Keep the safety decals clean at all times and protect them from damage.

In case of loss or damage, replace with a new decal.

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2. ABOUT WARRANTY

WARRANTY **2-2**

TROUBLE SHOOTING **2-2**

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WARRANTY

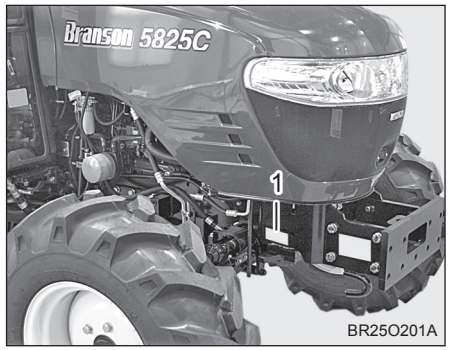
You will need the “Warranty paper work” when your tractor requires warranty service. Read it and keep in a safe place.

TROUBLE SHOOTING

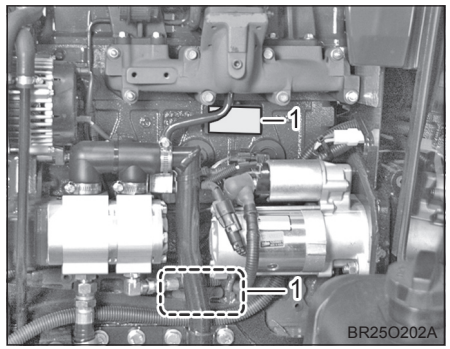
In case of mechanical trouble, refer to “Trouble shooting” on end of this manual. If the problem cannot be corrected, please contact your nearest authorized dealer.

<Information you will need when contacting the dealer for service>

- Type of model and tractor s/n number.
- In case of engine, the engine s/n number.
- Circumstances of breakdown. (What kind of work, gear position, etc)
- Amount of work done. (Square footage or number of hours)
- Other information in as much detail as possible surrounding the circumstanced of the breakdown.



(1) Tractor Serial number.



(1) Engine Serial Number

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3. OVERVIEW OF THE TRACTOR

EXTERIOR VIEW.....3-2

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EXTERIOR VIEW

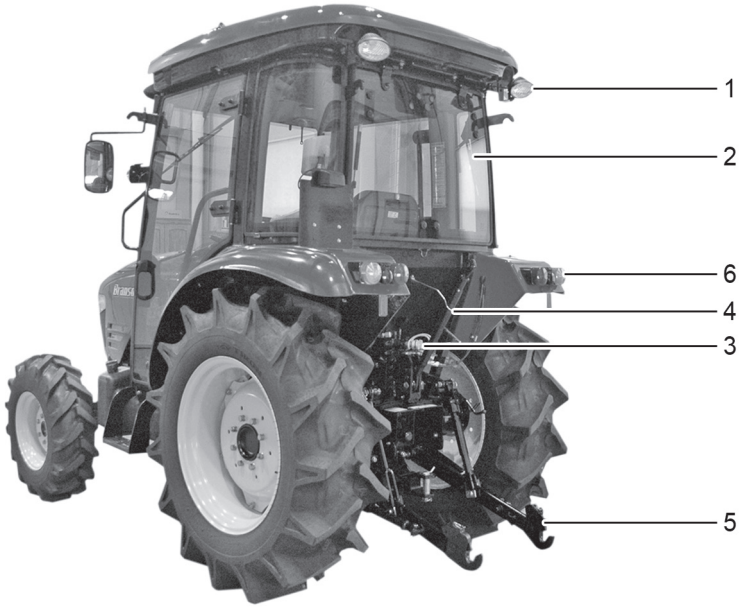
[CABIN]



(1) Work Lamp (F)
(2) Side Mirror
(3) Door Glass
(4) Rear Tire
(5) Step
(6) Front Tire
(7) Head Lamp
(8) Hood

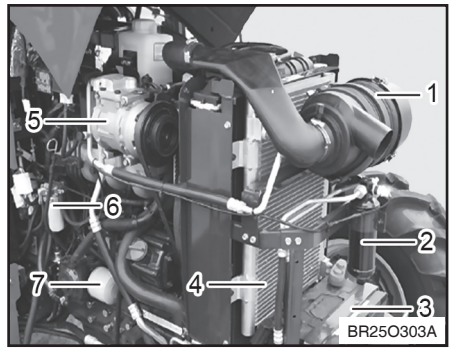
BR25O301A

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BR25O302A

(1) Work Lamp (R)
(2) Rear Window
(3) Rear Remote Valve
(4) Top Link
(5) Lower Link
(6) Rear Combination Lamp



(1) Air Cleaner
(2) Receiver Dryer
(3) Battery
(4) Condenser
(5) Compressor
(6) Fuel Filter
(7) Engine Oil Filter

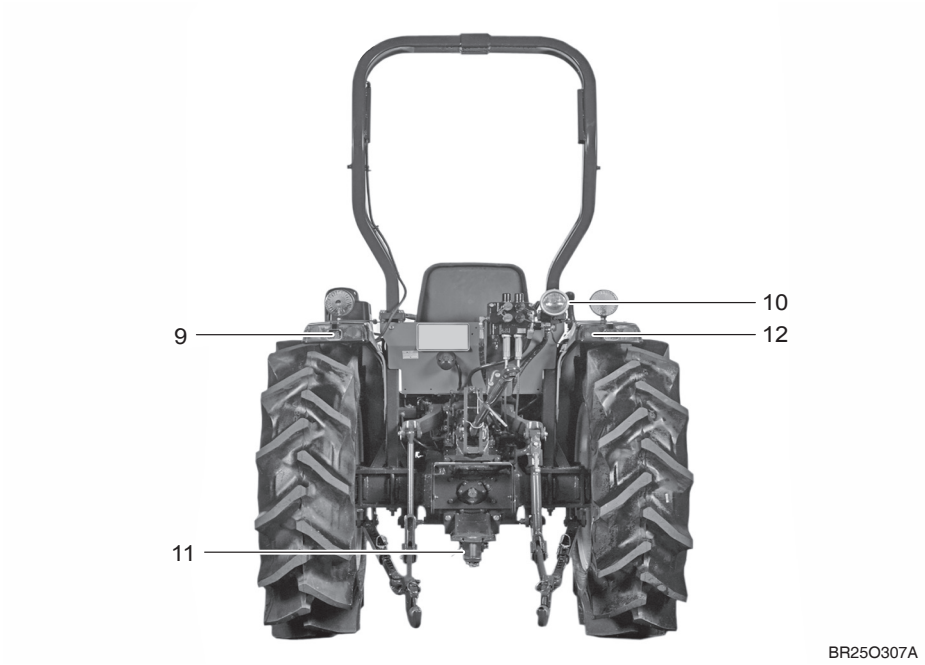
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[ROPS]

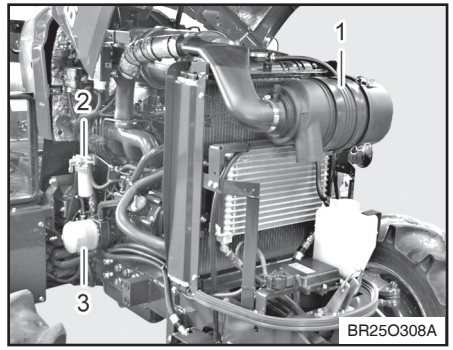


(1) Steering Wheel
(2) Head Lamp
(3) Muffler
(4) Front Tire
(5) Rear Tire
(6) Direction Lamp
(7) Road Lamp
(8) ROPS Frame

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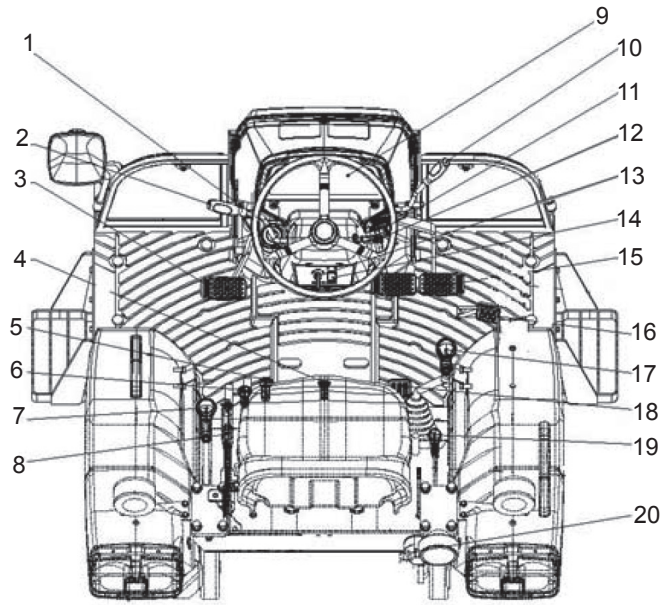
(9) Back Up Lamp
(10) Work Lamp
(11) Draw Bar
(12) Brake Lamp



(1) Air Cleaner
(2) Fuel Filter
(3) Engine Oil Filter

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[MANUAL]

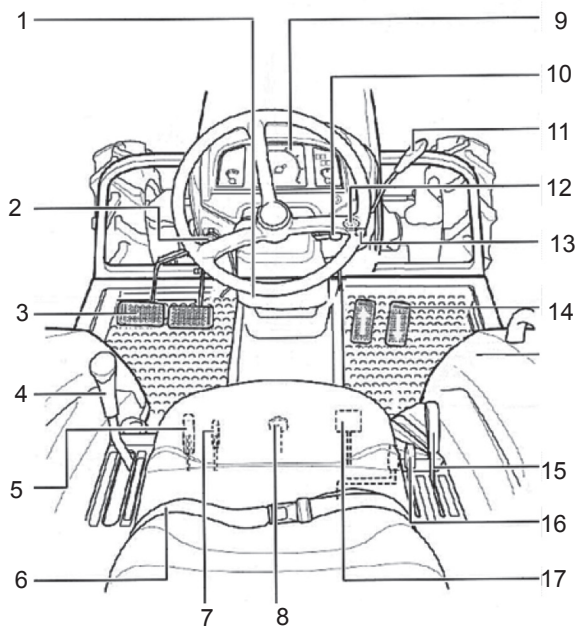


BR25O305A

(1) Combination Lamp Switch Horn Switch
(2) F-R Shuttle Lever
(3) Clutch Pedal
(4) Hyd. Stop Valve
(5) MFWD Lever
(6) PTO Shift Lever
(7) Range Shift Lever
(8) Parking Brake Lever
(9) Instrument Panel
(10) Accelerator Lever
(11) Main Key Switch
(12) Steering Wheel Tilt Lever
(13) PTO Switch
(14) Hazard Lamp Switch
(15) Brake Pedal
(16) Accelerator Pedal
(17) Main Gear Shift Lever
(18) Diff. Lock Pedal
(19) Position Control Lever
(20) Work Lamp

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[HST]



BR25O305A

(1) Control Panel
(2) Combination S/W
(3) Brake Pedals
(4) Range Shift Lever
(5) PTO Shift Lever
(6) Seat Belt
(7) MFWD Lever
(8) Slow Return Valve
(9) Instrument Panel
(10) Steering Tilt Lever
(11) Accelerator Lever
(12) Key Switch
(13) Emergency Lamp S/W
(14) F-R HST Pedals
(15) Position Lever
(16) Draft Lever
(17) Differential Lock Pedal

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MEMO

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4. FUNCTIONS

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PTO LEVER..... 4-18

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4. FUNCTIONS

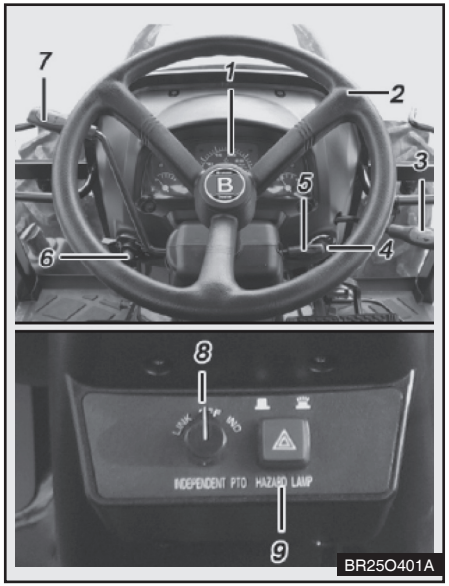
DIFFERENTIAL LOCK PEDAL..... 4-19

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BRAKE LAMP..... 4-23
REVERSE DRIVE LAMP..... 4-23
WORK LAMP..... 4-24

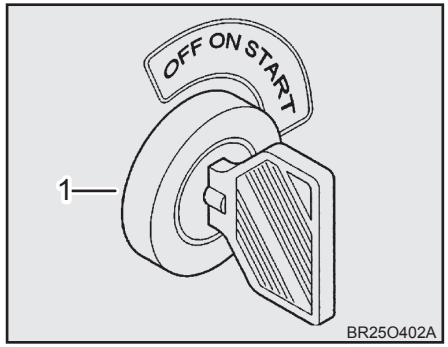
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SWITCHES AND LEVERS



(1) Dash Meter
(2) Steering Wheel
(3) Accelerator Lever
(4) Main Key Switch
(5) Steering Column Tilt Lever
(6) Combination Lamp Switch
(7) F/R Shuttle Lever
(8) PTO Shift Switch
(9) Emergency Lamp Switch

MAIN KEY SWITCH



(1) Main Key Switch

It is used to start the engine.

- "OFF"

The engine is stopped, and current does no flow. (The key can be taken out)

- "ON"

Electric current flows to the switched of all electrical parts. If the engine is stopped, the engine oil pressure pilot lamp and the battery charge pilot lamp are lit. Depending on the outside temperature, the thermostat pilot lamp may also be lit.

- "START"

Starting motor turns and the engine is started.

Once the engine is started, take your hand off the key.

The key will return to the “ON” position automatically and the engine will keep running.

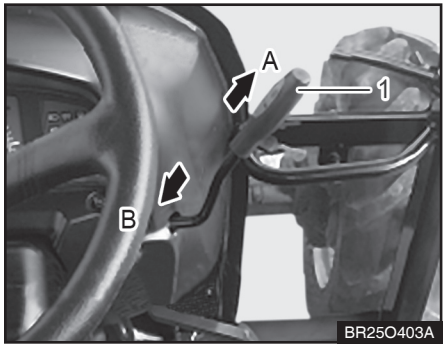
Turn engine off before performing any maintenance on tractor

⚠ CAUTION

- **When the tractor is not in use, take out the key and keep it in a safe place.**

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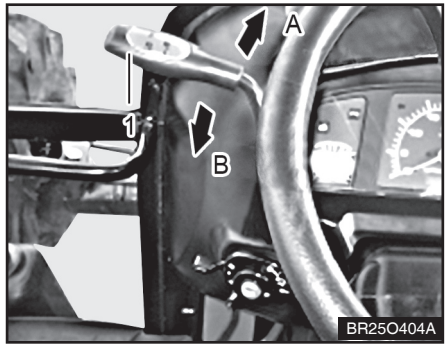
ACCELERATOR LEVER



(1) Accelerator Lever
(A) Decreases (B) Increases

It is used to make the engine run faster or slower. It is also used when working at a constant speed.

F/R SHUTTLE LEVER



(1) F/R Shuttle Lever
(A) Forward (B) Reverse

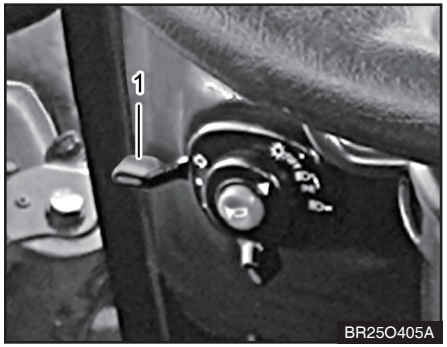
It is used for shifting between “Forward” and “Reverse” drive. When shifting the gear, depress the clutch fully.

⚠ CAUTION

- **For safety, when shifting from “forward” to “reverse” or from “reverse” to “forward”, put the lever in the “neutral” position and wait for the tractor to stop moving before shifting the gear to the opposite direction. To ensure safety, the lever must first be pulled upward for shifting to another position.**

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DIRECTOR LAMP S/W

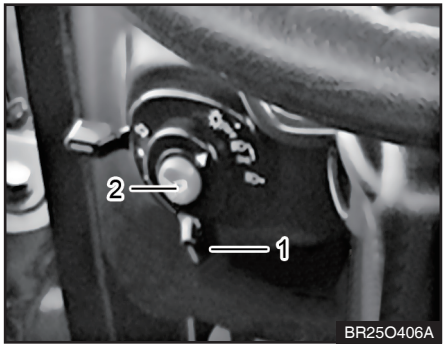


(1) Director Lamp S/W

With the key switch in the “ON” position, turn the direction

indicator switch to the right to turn on the direction indicator lamp in the right side, and turn the indicator switch to the left to turn on the lamp on the left.

HEAD LAMP & HORN S/W



(1) Head Lamp (2) Horn

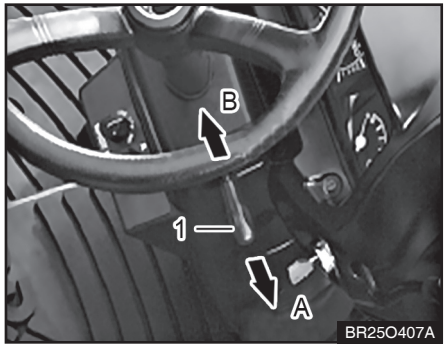
▶ HEAD LAMP S/W

With the main switch in the “ON” position, turn the light switch one click to the right for high beam and two clicks to the right for low beam.

▶ HORN S/W

With the main switch in the “ON” position, press the horn button to sound the horn.

STEERING WHEEL TILT LEVER



(1) Steering Wheel Tilt Lever
(A) Lock (B) Release

Confirm that the steering wheel is firmly fixed.

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PTO SHIFT SWITCH



(1) PTO Shift Switch

It is used for turning on or off the PTO clutch.

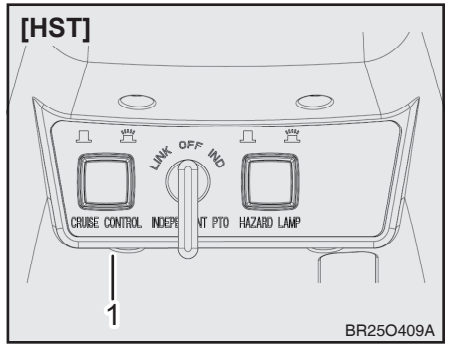
▶PTO CLUTCH SWITCH [IND]
PTO gets independent, and even when the lift arm is lifted, PTO continues to rotate and PTO lamp lights on the instrument panel.

▶PTO CLUTCH SWITCH [LINK]
PTO gets connected, and when the lift arm is lifted, PTO stops to rotate. And when the lift arm is lowered, PTO rotates and PTO lamp lights on the instrument panel.

▶PTO CLUTCH SWITCH [OFF]
PTO does not rotate. When not working, put to this position.

※The engine does not start up, when the PTO clutch is in “IND” or “LINK”. Put to “OFF” position for starting up the engine.

CRUISE CONTROL SWITCH



(1) Cruise Control Switch

1. When the machine has reached the desired speed, press cruise control switch to “ON”. Release the HST pedal and the machine will operate at the selected speed.
2. When applying full pressure to the Brake pedals, the cruise control will deactivated and it will be necessary to reset the cruise control to the desired speed.

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3. When applying light pressure to the Brake pedals, the machine's ground speed will be reduced until the Brake pedals released. At that point the machine will continue at the previous setting.
4. To reset the desired speed, you should turn off the cruise control switch then increase machine speed to reach the desired speed push cruise switch to on.

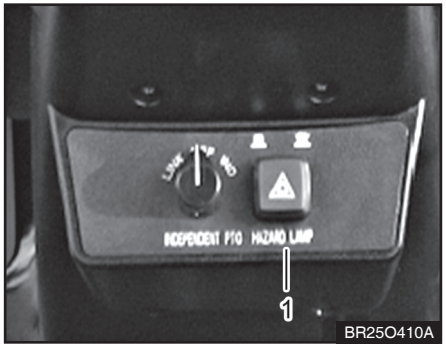
⚠ CAUTION

- **When stop the machine cruise control keep machine stop status.**
- **Make sure connecting the both Brake pedals when use cruise control function.**

[Otherwise]

There is a risk abrupt turning or overturning due to onesided Braking when the Brake pedal is depressed.

EMERGENCY LAMP SWITCH

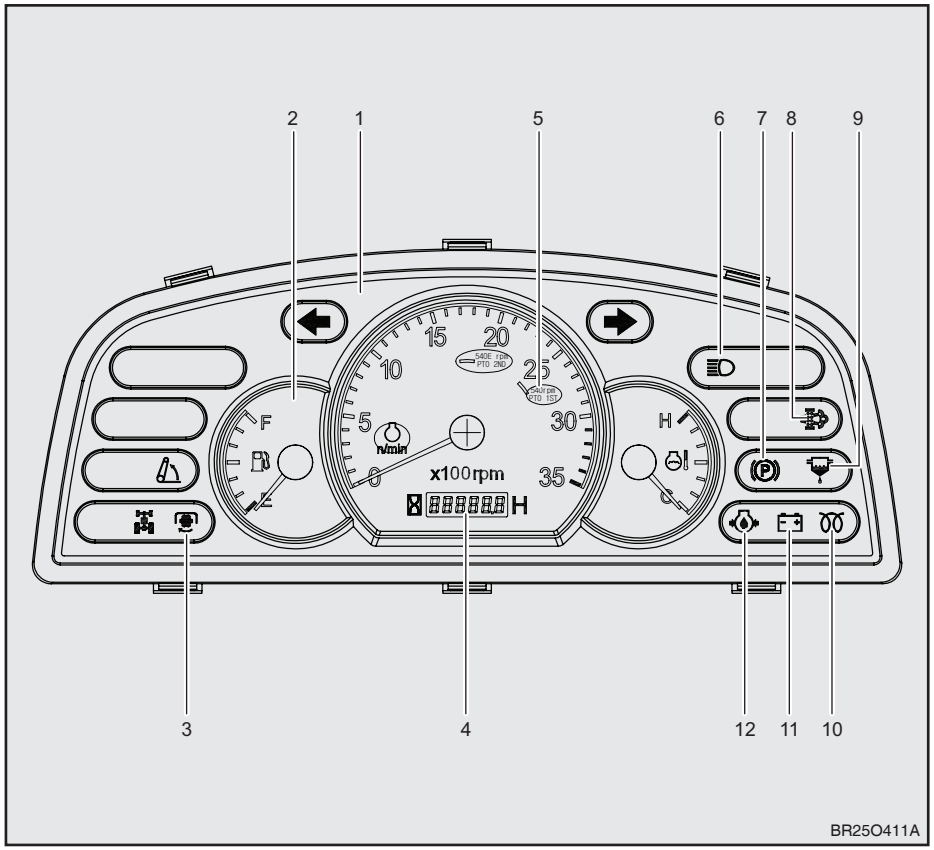


(1) Emergency Lamp Switch

Used to prevent accidents in an emergency. Activate by pressing switch as to warn other vehicles. Emergency lamp operates regardless of main switch and every direction lamp will cease at once. Press once again to cancel.

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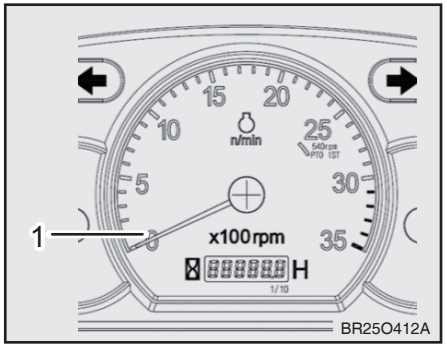
INSTRUMENT PANEL



(1) Meter Panel
(2) Fuel Gauge
(3) PTO Lamp
(4) Hour Meter
(5) PTO Position
(6) Head lamp High beam
(7) Park Brake Lamp
(8) DPF Lamp
(9) Engine oil pressure Pilot lamp
(10) Pre-heat Lamp
(11) Battery Charge Lamp
(12) Water Temp Gauge

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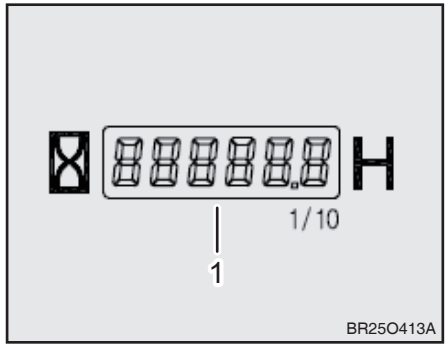
ENGINE RPM INDICATOR



(1) Engine Rpm Indicator

The needle indicates the number of engine RPM.

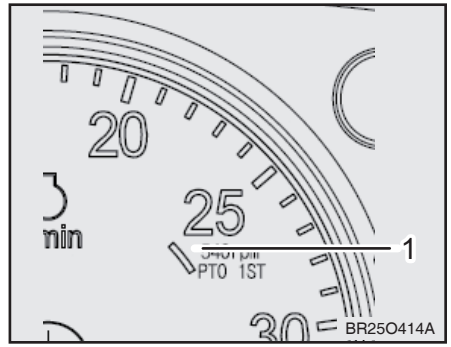
ENGINE HOUR METER



(1) Engine Hour Meter

It indicates the tractor's running hours. By multiplying the digit in the far right position by 6, you will get the time in minute.

PTO POSITION



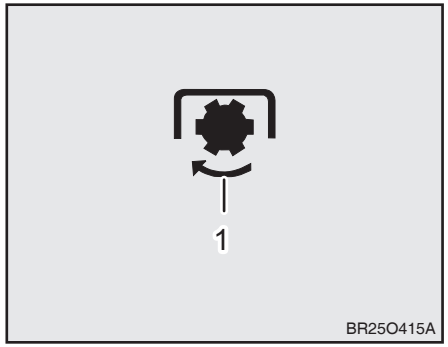
(1) PTO Position

It indicates the position where PTO achieves 540 rpm when engine rpm is 2,600 rpm at PTO 1st stage.

It indicates the position where PTO achieves 1,000 rpm when engine rpm is 2,600 rpm or where PTO achieves 540 rpm when engine rpm is 1,000 rpm at PTO 2nd stage. (Eco-no-position).

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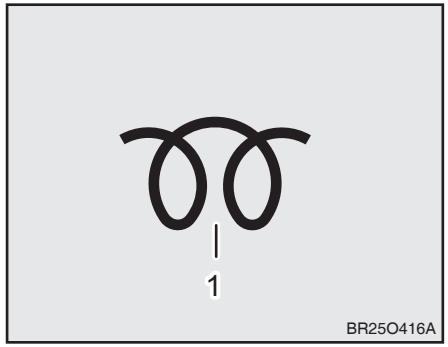
PTO LAMP



(1) PTO Lamp

Lamp will come on when PTO is engaged. On the contrary, if PTO is disengaged, lamp will be turned off.

PRE-HEAT LAMP



(1) Pre-heat Lamp

Lamp will come on when the ignition switch is put into the “ON” position with outside temperature of around 40°F, indicating that electricity is supplied to the heater or glow plugs. Turn the ignition switch to “START” after the lamp has been turned off (it is turned off automatically) then it will start the engine.

NOTE

- **The length of time the thermostat stays on will depend on the temperature of the engine coolant.**

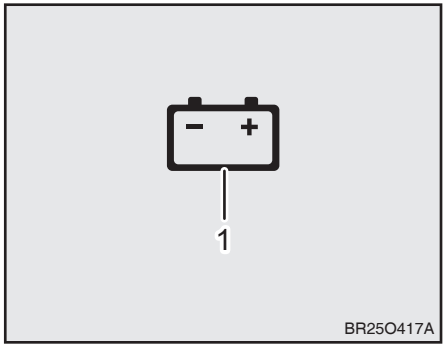
※Coolant temp :

32°F ~ 60°F 10 sec

32°F ~ 5°F 20 sec

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BATTERY CHARGING LAMP

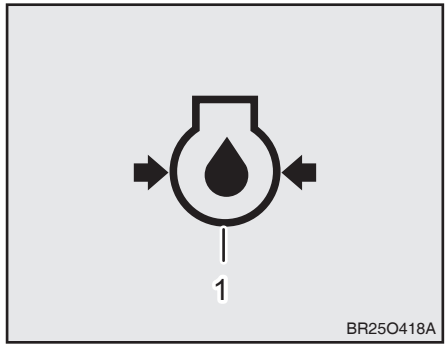


(1) Battery Charge Lamp

It will be turned on when the key switch is put into the “ON” position, and will be turned off when the battery starts being charged after engine is started and the engine revolution increases.

The battery will not be charged with the engine below 1,000 rpm. (The rpm should be 1,500 rpm or higher)

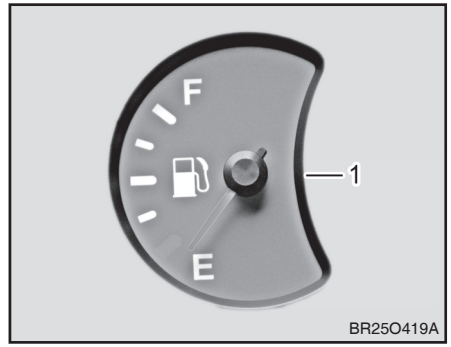
ENGINE OIL PRESSURE LAMP



(1) Engine Oil Pressure Lamp

Lamp will come on when the ignition switch is put into the “ON” position. It will turn off when the engine is started. If this lamp comes on while the engine is running, it indicates a problem in the engine oil system. Stop the engine immediately and check for problems.

FUEL GAUGE

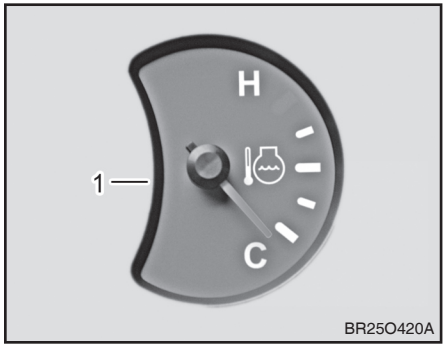


(1) Fuel Gauge

Indicates the quantity of fuel remaining in the tank. If the needle is in the red zone, refill immediately.

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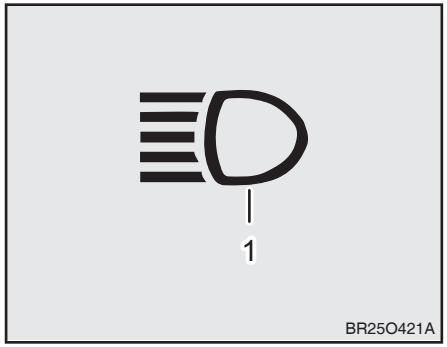
WATER TEMP GAUGE



(1) Water Temp Gauge

The needle indicates the temperature of the engine coolant during running. If the needle is in the red zone, stop running the engine and check for problems.

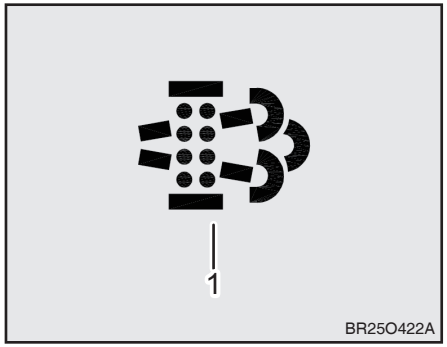
HEAD LAMP (HIGH BEAM)



(1) High Beam Head Lamp

Indicates the head lamps beam's position. It will come on when the head lamps are on Hi beam. On the contrary, if the head lamps are in the low beam, this indicator will not be lit.

DPF LAMP

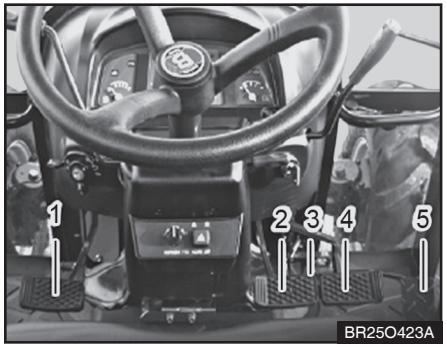


(1) DPF Lamp

Lamp will be turned on when DPF is forced to be operated.

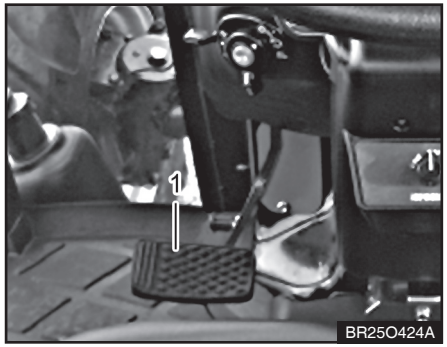
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PEDALS



(1) Clutch Pedal
(2) Brake Pedal (L)
(3) Brake Pedal Coupler
(4) Brake Pedal (R)
(5) Accelerator Pedal

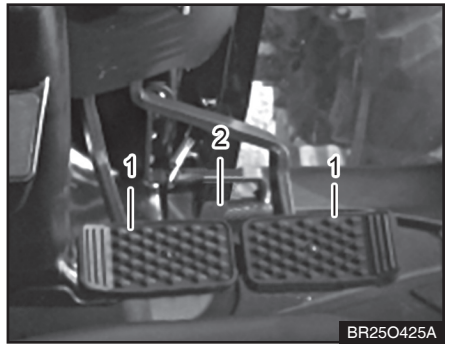
CLUTCH PEDAL



(1) Clutch Pedal

It is used to transmit the engine power.

BRAKE PEDALS AND COUPLER



(1) Brake Pedal *(2) Brake Pedal Coupler*

Brake pedals are independent of each other and can be used for making a small turn on the pavement.

Depressing the Brake pedal on the side to which to make a turn, the rear wheel on that side is stopped and the tractor can make a small turn.

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⚠ WARNING

- **Make sure to connect the Brake pedals with the coupler when driving on a road.**

  [Otherwise]
  There is a risk of abrupt turning or overturning due to one-sided Braking.

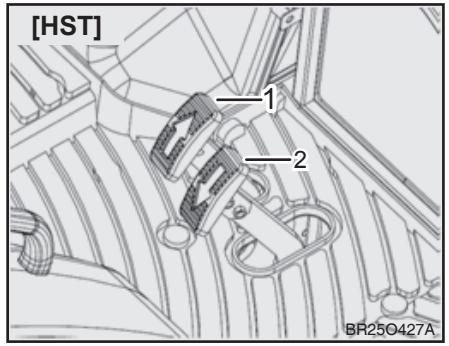
ACCELATOR PEDAL



(1) Accelator Pedal

It is used to make the engine run faster or slower. It is usually used when driving on a road. (Manual transmission only)

F-R HST PEDAL (HST)



(1) HST Pedal Forward
(2) HST Pedal Reverse

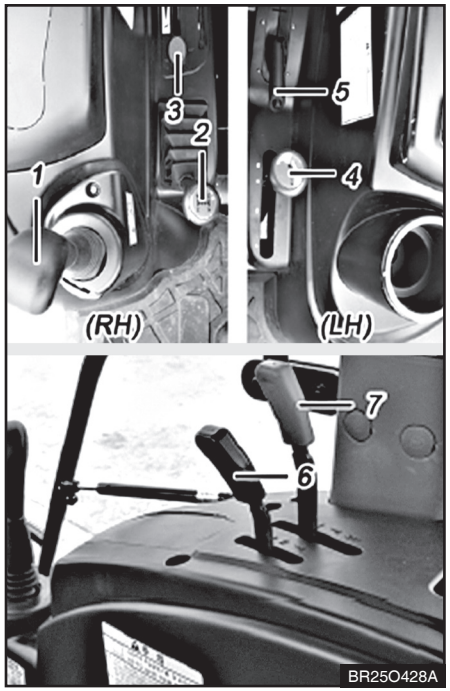
It is used for shifting between “forward” and “reverse” drive. And stay pedals at neutral machine should be stopped.

⚠ CAUTION

- **For safety, do not shift quickly from “forward” to “reverse” or from “reverse” to “forward”. Engage Brake pedals when the machine for machine to stop quickly.**

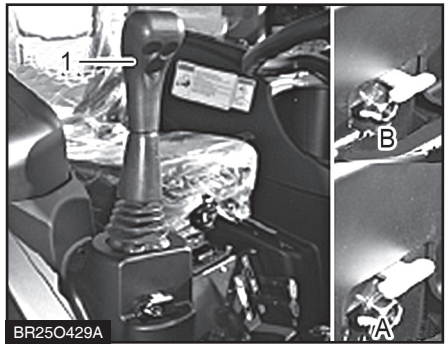
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LEVER OPERATION (R)



(1) Mid Remote Valve Joystick
(2) Main Gear Shift Lever
(3) 3-PT Position Lever
(4) Range Shift
(5) Park Brake Lever
(6,7) Rear Remote Control Lever (I,II)

MID REMOTE VALVE JOYSTICK



(1) Mid Remote Valve Joystick
(A) Lock (B) Unlock

Front-loader exclusive joystick valve is attached and control lever is attached on right-front side of driver's seat.

Loader will move up when pushed forward and move down when pulled backward. Bucket will move up when pushed to the left and move down when pushed to the right. Joystick lever must be locked when driving while loader is lifted. Otherwise it may cause accident.

MAIN GEAR SHIFT LEVER



(1) Main Gear Shift Lever

The gear is shifted in four levels. When shifting the gears depress the clutch fully.

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3-PT POSITION CONTROL LEVER



(1) 3-PT Position Control Lever

⚠ WARNING

- **Confirm that no one or a foot is under the implement before operating the system.**

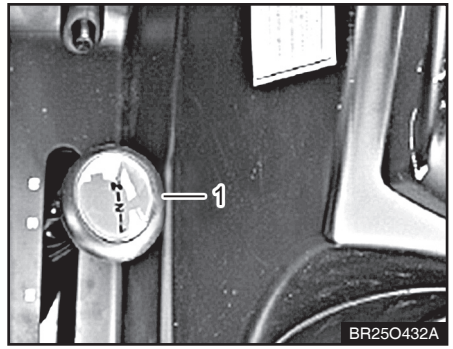
[Otherwise]

There is a danger of injury.

It is used to keep the implement constantly at a certain position. When the lift lamp is on, the implement cannot be lowered with position control lever. A stopper is used to fix the position control lever in the “UP” position while driving on a road.

When lowering the implement, set the position control lever, and the implement will go down to the set position.

RANGE SHIFT LEVER



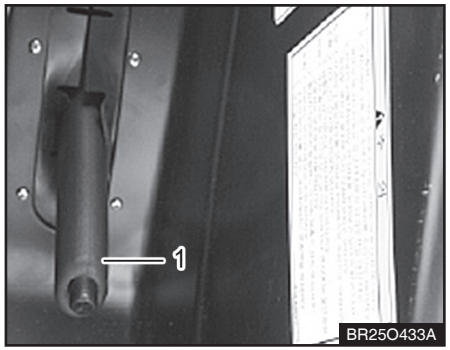
(1) Range Shift Lever

The range gear is shifted in three levels (A-B-C). The combination with the main gear provides 12 levels (3 levels: HST only) of gear shifting.

When shifting the range gear, stop tractor and depress clutch pedal fully.

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PARK BRAKE LEVER

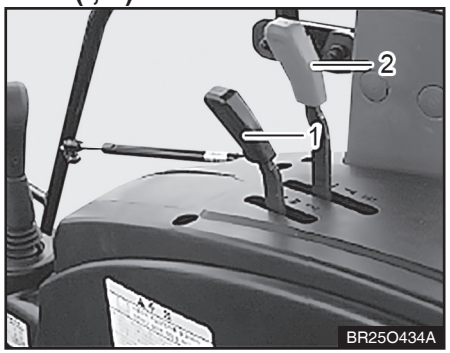


(1) Park Brake Lever

Pull the lever up while depressing the Brake pedal fully to engage the parking Brake. To release the parking Brake, step on the Brake pedal and push the lever down.

Connect both Brake pedals with the connector.

REAR REMOTE CONTROL LEVER (I, II)

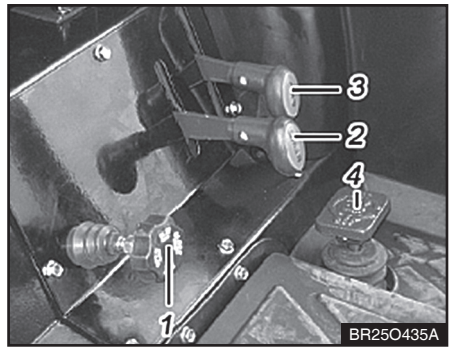


(1) Rear Remote Control Lever (Ⅰ)
(2) Rear Remote Control Lever (Ⅱ)

It is used to for the rear implement hyd-function.

LEVER #	I	II
DETENT	N/A	REAR

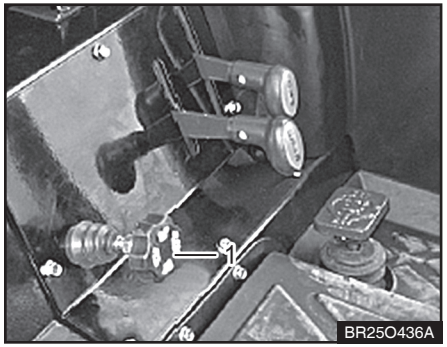
LEVER OPERATION (L)



(1) Stop / Slow Return Valve
(2) MFWD Lever
(3) PTO Lever
(4) Differential Lock Pedal

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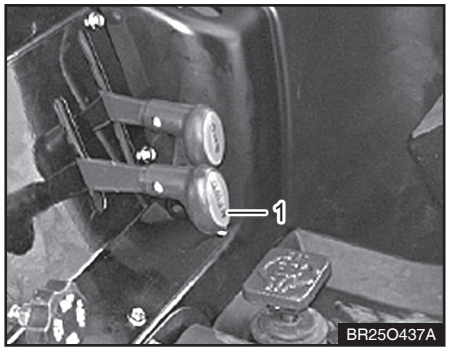
STOP/SLOW RETURN VALVE



(1) Stop / Slow Return Valve

It is used to regulate the lowering speed of the implement (slow return function). Also, if you wind the valve fully to the right, the hydraulic pressure to the device raising the implement is stopped.

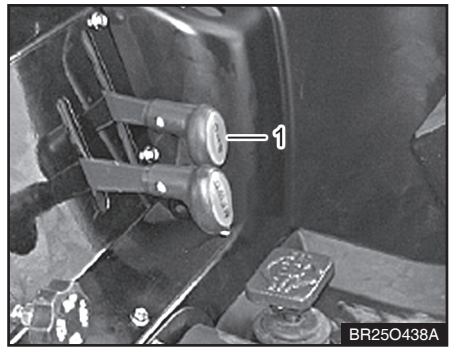
MFWD LEVER



(1) MFWD Lever

It is used to shift between 2-wheel drive and 4-wheel drive. Depress the clutch pedal when shifting the lever.

PTO LEVER



(1) PTO Lever

The revolution of the PTO shaft can be shifted in two levels. When shifting level, shift PTO switch to “OFF” position.

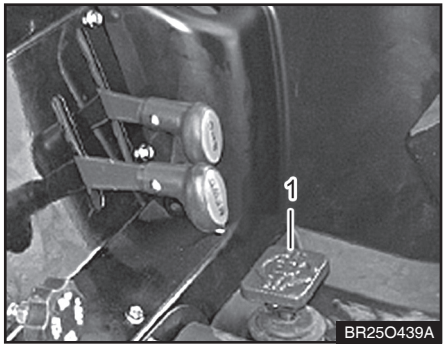
PTO 1	540 RPM
PTO 2	790 RPM (540E)

⚠ CAUTION

- **Observe the PTO speed designated on the implement. Otherwise, the implement may be damaged and cause an accident.**

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DIFFERENTIAL LOCK PEDAL



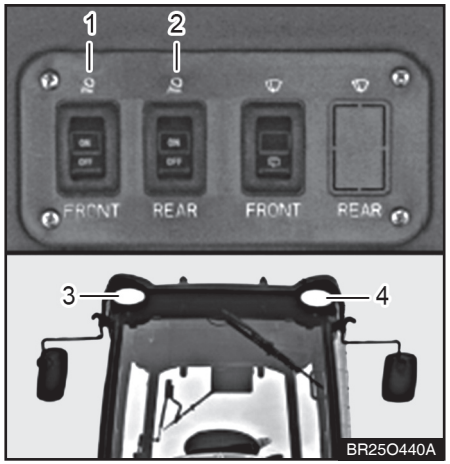
(1) Differential Lock Pedal

It is used to transmit the same power to both rear wheels and serves to prevent slipping when one of the rear wheels is idling.

⚠ WARNING

- **Release the differential gear lock when making a turn. Otherwise, the tractor may not turn in the direction you want and cause an accident..**

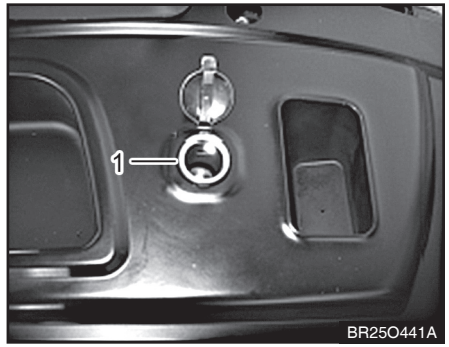
PARTS FOR OTHER WORK LAMP SWITCH



(1) Work Lamp Switch (FRT)
(2) Work Lamp Switch (RR)
(3) Work Lamp (R) *(4) Work Lamp (L)*

It is used to turn on work lamps on the top roof.

POWER OUT 12V



(1) Power Out 12V

Accessory 12-volt electrical outlet is used when connect-ing auxiliary equipment.

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WIPER SWITCH



(1) Wiper Switch

Wiper blades will operate when upper buttons of wiper switch are pressed.

Washer fluid is sprayed on to windshield and the wipers are operated when buttons are pressed once more.

Lower buttons will only spout wash liquid. Wash liquid tank for cleaning is located on rear left side of cab exterior.



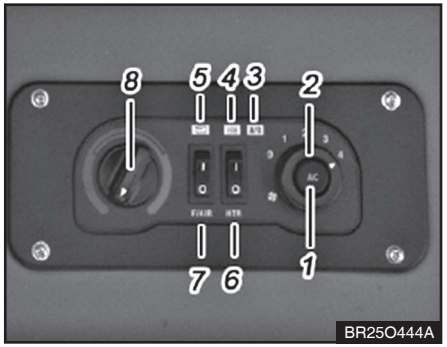
(1) Wash Liquid Tank

⚠ CAUTION

- **Do not use the washers when the washer fluid reservoir is empty, otherwise you will damage the washer pump.**
- **Do not use the washers if there is any danger that the fluid will freeze on the windshield. If you do, your vision could be ob-scured. For this reason, use antifreeze**

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CLIMATE CONTROL



(1) Cooling Function
(2) Air Flow Rate
(3) Air-conditioning Indicator
(4) Heater Indicator
(5) Air Circulate Indicator
(6) Heater Control
(7) Air Circulate Control
(8) Temperature

▶ COOLING FUNCTION

When the cooling function is on, the air compressor is worked then re-heated according to the temperature setting.

▶ AIR FLOW RATE

Adjust the air flow rate. The higher the rate, the more effective the heating or cooling will be.

▶ AIR CIRCULATE CONTROL

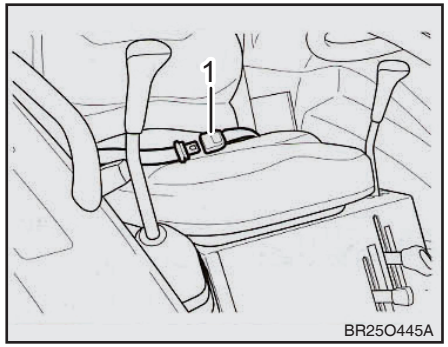
Used to shift the supply of outside air and re-cir-culates the inside air

▶ TEMPERATURE:

Red, to increase the temperature.

Blue, to decrease the temperature.

SEAT BELT



(1) Seat Belt

⚠ WARNING

- **Do not wear the seat belt when the safety frame is folded down. With the frame folded down, it does not provide safety.**
- **When operating the tractor, make sure to keep the safety frame in the upright position and wear the seat belt.**

4

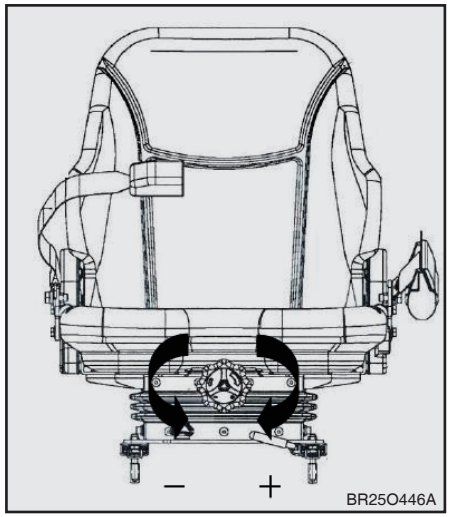
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SEAT ADJUSTMENT

⚠ WARNING

[Otherwise]

There is a risk of death or injury if the tractor turns over. Adjust the seat to the driver and keep the upper body upright. Wrap the seat belt around the waist and insert it into the buckle until the clicking sound is heard. When releasing the seat belt, use the "PRESS" button.



▶ FORE AND AFT POSITIONING

Lift handle and move the seat forward or rearward. Release the handle at one of several positions.

▶ BACK CUSHION ANGLE ADJUSTMENT

Lift the handle and let the back cushion spring forward, or lean backward into the cushion. Release the handle at desired position

▶ WEIGHT ADJUSTMENT

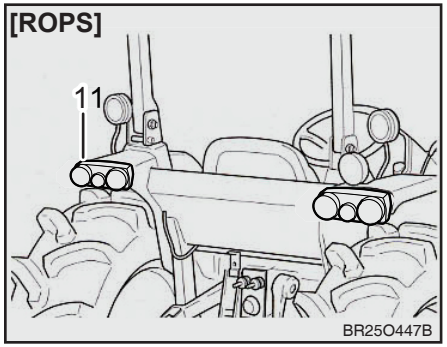
With seat in mid-position, extend the crank lever from knob and rotate minus(-) direction for less support or Plus(+) for more support. Use the indicator for approximate weight setting. Release crank lever

⚠ CAUTION

- **Never attempt to adjust your seat while the tractor is moving. The seat could respond with unexpected movement, and the ensuing loss of tractor control could lead to an accident.**

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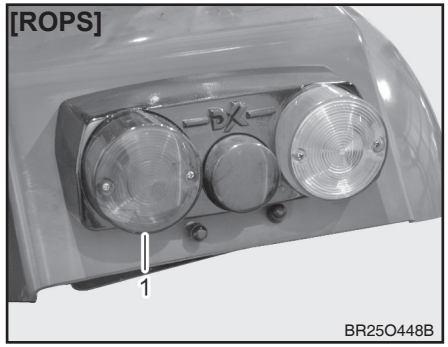
TAIL LAMP



(1) Tail Lamp

It is connected with the headlamp and is turned on when the headlamp is turned on.

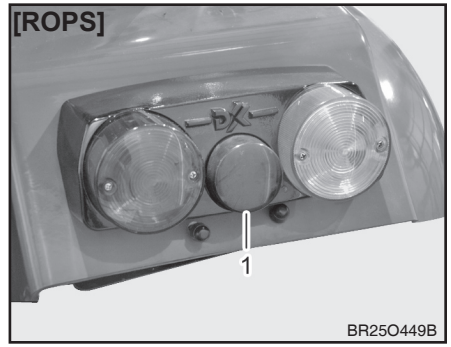
BRAKE LAMP



(1) Brake Lamp

It is turned on when the Brake pedal is depressed.

REVERSE DRIVE LAMP

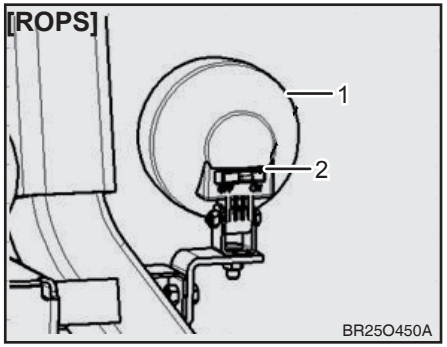


(1) Reverse Drive Lamp

This lamp flashed on when connecting the shuttle lever to R (backward).

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WORK LAMP



(1) Work Lamp *(2) Work Lamp switch*

It is used for work at rear side at night. The work lamp has an on-off switch itself.

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5. OPERATION & WORK

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CHECKING BEFORE OPERATION

⚠ DANGER

- **Do not provide illumination with a lit cigarette or a lighter when fueling.**
- **Never fill the fuel tank while the engine is running or hot.**
- **After filling the fuel tank, close the fuel filler cap completely and wipe off the excess fuel thoroughly.**
- **If the fuel hoses are damaged, fuel will leak. Make sure that you check for any leakage.**

⚠ WARNING

- **Perform the maintenance on a flat and safe location that will keep the tractor in place and will not cause a risk to people passing by. Before carrying out the maintenance, place blocks at the front tires to prevent movement.**

[Otherwise]

An unexpected accident may occur, such as overturning of the tractor.

- **When going under the implement, fully close the slow/stop valve.**

[Otherwise]

There is a risk of injury due to implement falling.

⚠ CAUTION

- **Stop the engine during checking, maintenance, or repair**
- **Carry out the maintenance work after heated area such as the muffler or the engine have fully cooled down.**

[Otherwise]

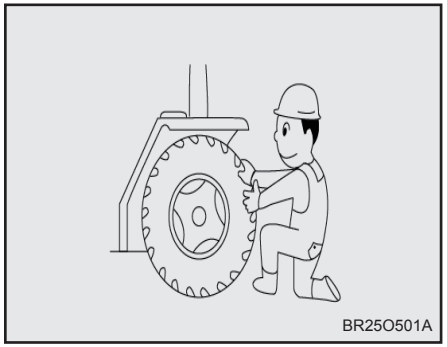
There is risk of burn.

- **After detaching the covers for checking or maintenance, make sure to put them back in their place.**

[Otherwise]

There is a risk that you may get entangled in the tractor or get injured.

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To ensure a safe and comfortable operation, please carry out the routine check-up everyday before starting work. Correct any problem immediately, and also check for problems after work. This checking should be done in the following sequence.

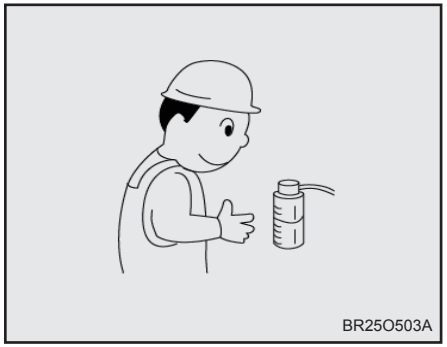
1. Check the suspicious parts of the previous day.
   - Check the parts that you thought were not normal during the work of previous day.

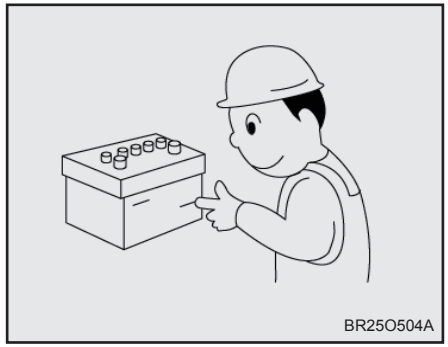
2. Check around the tractor.
   - Parking deformation, damage or stains.
   - Tire pressure and abrasion.
   - Damage to the tractor, or loosened bolts.
   - Loosening of wheel bolts.
   - Fuel quantity, fuel leaks, or damage to the fuel hose.

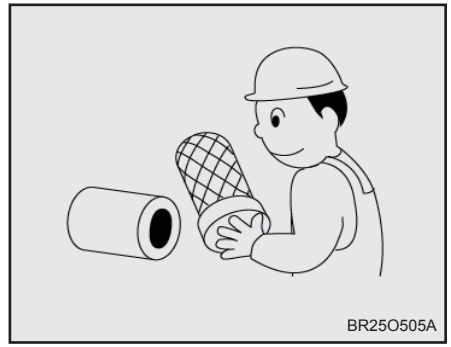

BR25O502A

3. Open the engine hood.
   - Engine oil level, contamination, or leakage.

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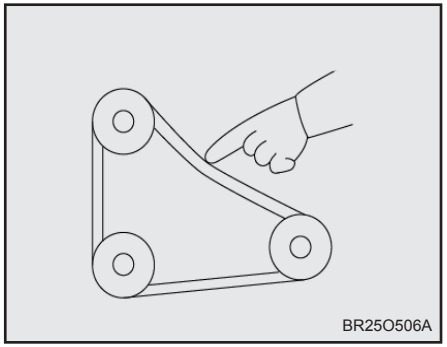

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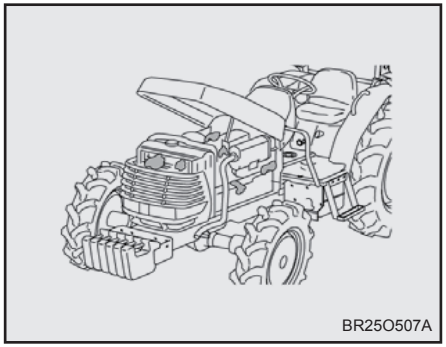

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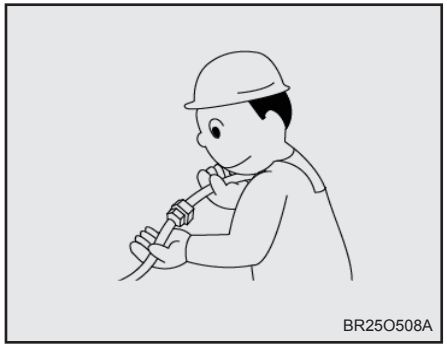

BR25O505A

- Engine coolant level, leakage, or damage to the hose.
- Battery solution level.
- Air cleaner.

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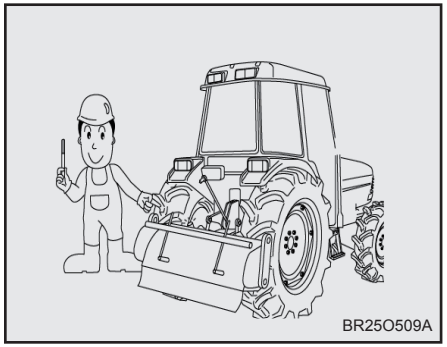

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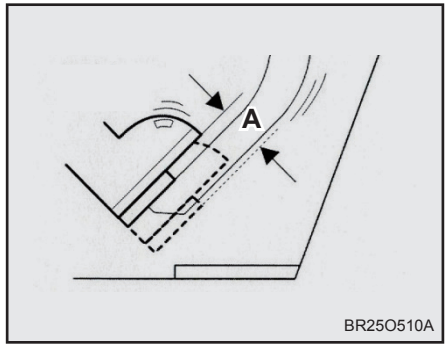

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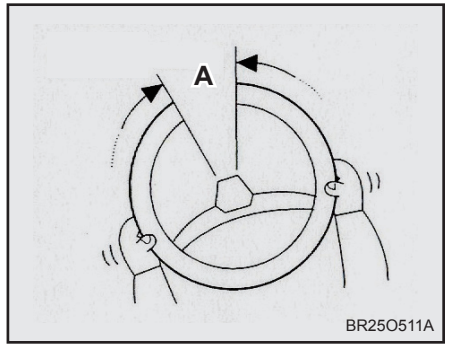
- Cooling fan belt tension, damage.
- Dust or straw on the radiator grill or the engine.
- Damage to the coating of the cables, or loosening of the contacts.

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(A) Free play 0.2 ~ 0.4 in

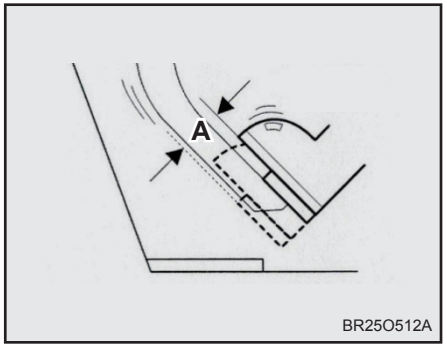


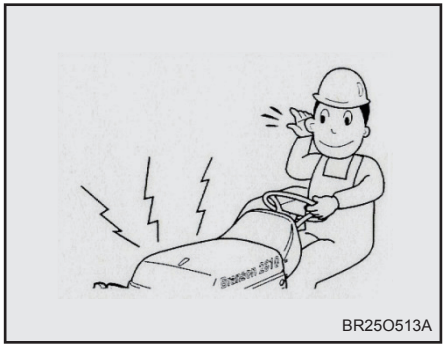
(A) Free play 0.8 ~ 2.0 in

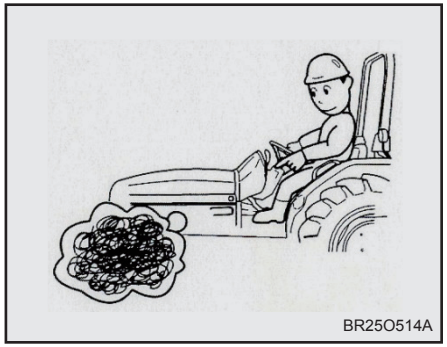
4. Check around the implement.
   - Condition of the locking pin of the universal joint inserted in the PTO shaft.
   - Condition of R pins in each part.
   - Loosening of the bolts holding the blade.
   - Quantity of oil in each part. For more details, please refer to the implement manufacturer's instructions.

5. Check on the driver seat.
   - Operational condition and free play of the brake. (0.2~0.4 in)
   - Free play of the steering wheel. (0.8~2.0 in)

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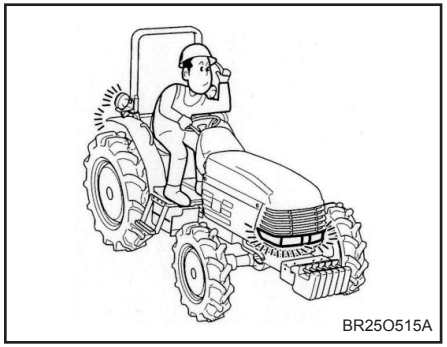


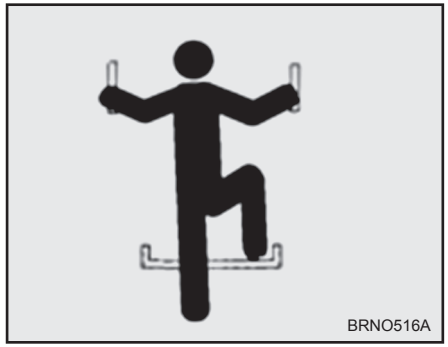
(A) Free play 1.0 ~ 1.4 in

- Operational condition and free play of the clutch pedal. (Manual transmission only)

6. Start the engine.
   - Abnormal noise from the engine.
   - Color of the exhaust gas.

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BR25O515A


BRNO516A

• Operation of lamps and gauges

▶ **Boarding And Leaving The Tractor**

Use Steps and Hand-holds Correctly

1. Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps and handrails. Never use machine controls as hand-holds.
2. Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine

⚠ DANGER

- **Getting off the tractor, make the implement descend.**

[Otherwise]

The implement descends itself, and then causes some unexpected accident.

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STARTING / STOPPING THE ENGINE

▶ Note: Breaking in your tractor (First 50 hours)

The operation of a new tractor during the first 50 hours in very important, as it will greatly influence the life and performance of the tractor.

Pay attention to the following precautions during the break-in period.

1. Avoid rapid accelerating and abrupt stopping.
2. Avoid over-speeding and overloads.
3. Drive the tractor after the engine has been warmed up.
4. Reduce the speed while driving on a rough road or a slope.
5. At the first 50th hour, carry out inspections of each part and replace the engine oil.

⚠ DANGER

- **When starting the engine, make sure that you are seated in the driver's seat and check position of the levers and the safety around the tractor.**

[Otherwise]

There is a risk of injury.

- **Do not start the engine in an enclosed space. You must start the engine outside where there is open air. If you should have to start the engine inside a building, make sure that the space is well ventilated.**

[Otherwise]

The exhaust gas can cause intoxication and can lead to fatal consequences.

⚠ CAUTION

- **Make sure to carry out checking and maintenance before and after the use of the tractor, particularly the operating devices such as the clutch and the brake lever.**

[Otherwise]

There is a risk of injury or machinery breakdown. Engage the parking brake during warming-up. Otherwise, the tractor may move and cause an accident.

- **Don't crank engine unless hitch control lever is in the lowest position.**

[Otherwise]

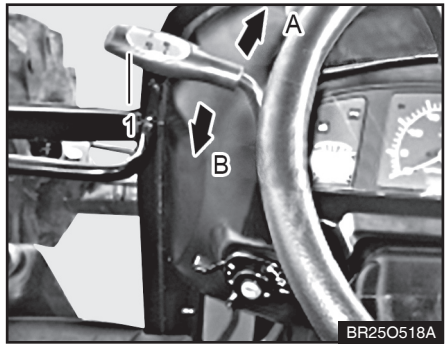
Implement might rise quickly and there is a risk of injury or machinery breakdown.

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TO START THE ENGINE



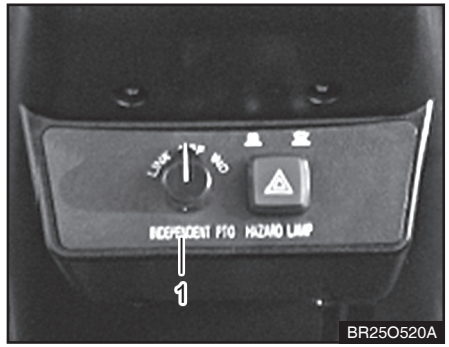
1. Check fuel.
   - Check if there is enough fuel by observing fuel gauge.



(1) Shuttle Lever
(A) Forward *(B) Reverse*

2. Shuttle lever into “Neutral” position.





(1) PTO Switch *(2) PTO Shift Switch*

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3. Put the position control lever into the “lowest” position and PTO switch turn to OFF position.

⚠ WARNING

- **Don’t crank engine unless position control lever is in the lowest position.**

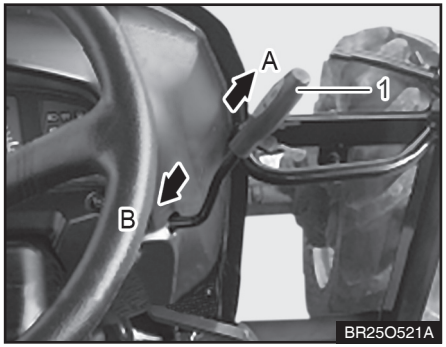
[Otherwise]

Implement might rise quickly and there is a risk of injury or machinery breakdown.

- **Check the safety around the tractor and start to move slowly.**

[Otherwise]

There is a risk of injury.



(1) Accereration Lever
(A) Decrease (B) Increase

4. Put the acceleration lever to Min.

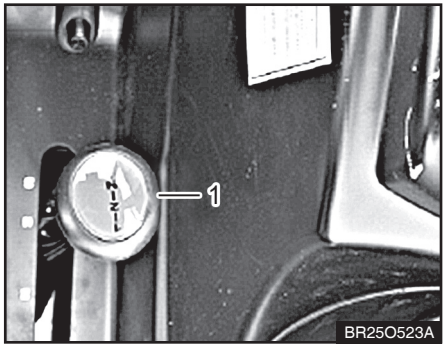


(1) Main Shift Lever

5. Main shift lever / range shift lever into “NEUTRAL” position.
6. After the thermostat lamp has turned off, depress the clutch pedal fully and turn main key switch to start.

5

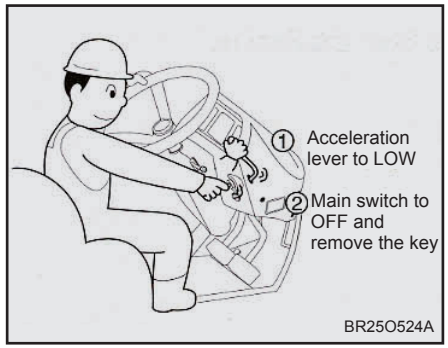
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(1) Range Shift Lever

7. Once the engine has started, take your hand off the ignition switch.
8. Increase the engine to about 1,500 rpm and warm it up for about five minutes without a load.

TO STOP THE ENGINE



1. Put the acceleration lever on LOW, and turn the main switch to “OFF”.
2. Put shuttle lever, main gearshift lever and PTO shift lever to “N”. put PTO ON/OFF switch in to the “OFF” position and front wheel lever to the “OFF”.
3. Put the hitch control lever on “DOWN”

⚠ CAUTION

- **When stopping the engine, never stop it with the reducer lever.**
- **After stopping the engine, make sure to apply the parking brake.**

NOTE

- **For warming-up operation, strongly step on the brake pedal and pull your parking brake.**

⚠ WARNING

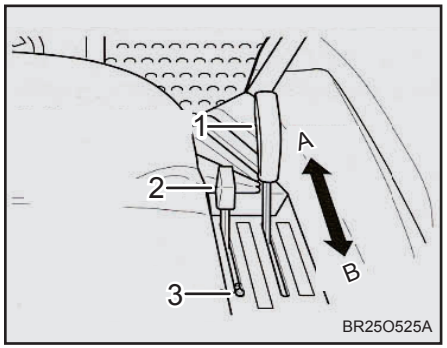
- **When leaving the tractor, park the tractor in a flat and safe place, put the shuttle lever and the main shift lever to “N”, and block the tires.**

[Otherwise]

The tractor may move and cause an accident. Always set the parking brake.

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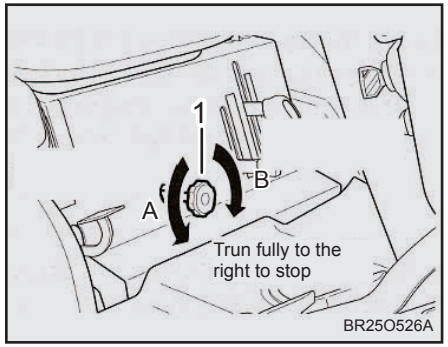
TO RAISE OR LOWER THE IMPLEMENT



(1) Position Control Lever
(2) Draft Control Lever (3) Restriction Bracket
(A) Down (B) Up

1. Move the position control lever forward or backward to lower or raise the implement.

ADJUSTING THE LOWERING SPEED OF THE IMPLEMENT



(1) Stop/Slow Return Valve
(A) Fast (B) Slow

For adjusting the lowering speed, turn the stop/slow return valve (A) to the left for faster movement or to the right for slower movement. Turning the valve fully to the right will block the hydraulic pressure and will cause the implement to stop.

⚠ WARNING

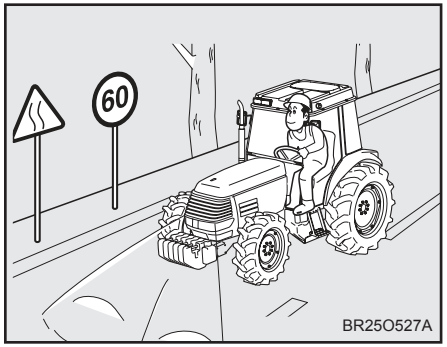
- **Do not work under or put a foot under the implement.**

[Otherwise]

The implement may fall and cause an injury.

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DRIVING ON THE ROAD



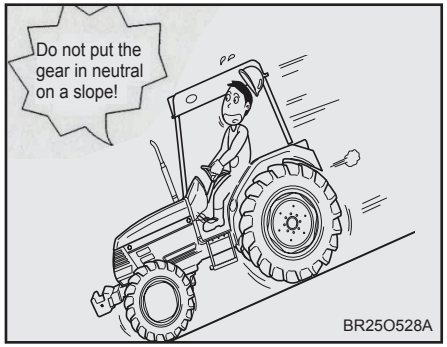
⚠ WARNING

- **When driving on a road or crossing a dike, make sure to connect the brake pedals. Otherwise, the tractor may turn abruptly or turn over due to one-sided braking.**
- **Observe the traffic regulations when driving on the road. Otherwise, you may be involved in an accident.**

⚠ WARNING

- **This tractor is designed to accommodate only one person. Do not allow anyone on the tractor other than the driver. Otherwise, you will be exposed to a risk of accident.**
- **Put the PTO lever into "N" and connect the brake pedals.**
- **When making a turn, turn on the direction indicator lamp to inform other vehicles of your intention.**
- **Pay particular cautions to narrow farm roads, slopes, and grassy shoulders, and reduce the speed.**
- **Put the position control lever to UP and lock it with the stopper. Otherwise, you will be exposed to a risk of an accident.**
- **Connect the brake pedals when driving on a road. Otherwise, there is a risk of abrupt turning or overturning due to one-sided braking.**
- **Before every operation, make sure that operator wears safety belt.**

DRIVING ON THE SLOPE



⚠ WARNING

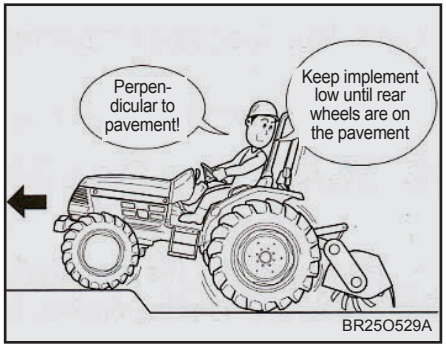
- **Select a proper speed, and do not shift the gear.**
- **Do not park on a slope. Otherwise, the tractor may slip or overturn and cause an accident.**
- **Reduce speed and pay special attention to the speed.**

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ENTERING AND LEAVING THE PAVEMENT

⚠ WARNING

- **Do not depress the clutch pedal when driving on a slope. The tractor may slide down and lead to a serious situation.**
- **When starting the tractor upwards on a slope, start slowly in low gear with low engine rpm. Otherwise, the front of the tractor may be lifted and cause a very dangerous situation.**
- **You may shift the gear when you are no longer on the slope. If you stop on a slope, apply the parking brake. Otherwise, you may be exposed to a risk of accident.**



⚠ WARNING

- **Make sure to connect the brake pedal. Otherwise, the tractor may turnover due to one-sided braking.**

⚠ WARNING

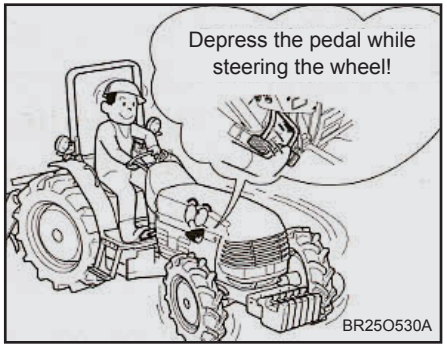
- **When you cross a dike or raised ground to enter or leave the pavement, use loading ramps with sufficient strength, and lower the implement to achieve a lower center of gravity.**
- **Drive backward when climbing up a steep slope, and drive forward when climbing down.**

NOTE

- **Enter or leave the pavement in a perpendicular direction. When climbing onto the pavement, lower the implement to achieve a lower center of gravity. Once all wheels of the tractor are on the pavement, raise the implement.**

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TURNING ON THE PAVEMENT



When making a turn, reduce the engine rpm and make a slow turn. When making a turn on the pavement, remove the connector of the brake pedals. Depress the brake pedal on the side to which to make a turn, while steering the wheel, this will allow the tractor to make the turn without moving ahead. Make sure to keep the implement in the up position when making a turn.

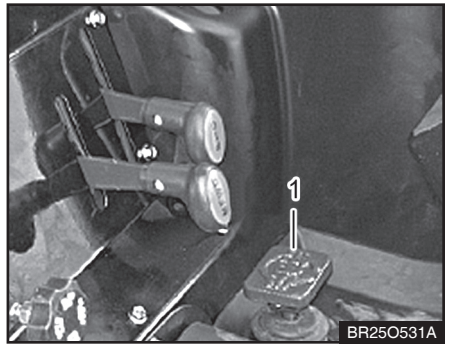
⚠ WARNING

- **Make sure to release the differential gear lock before making a turn.**

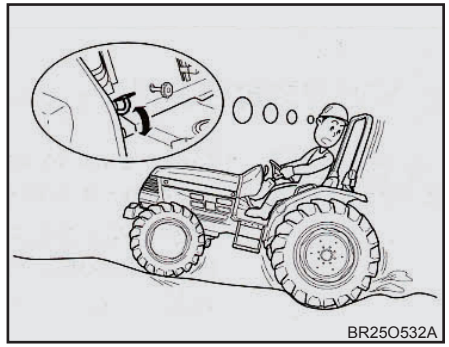
[Otherwise]

The tractor will not turn in the intended direction but may cause an accident.

DIFFERENTIAL GEAR LOCK



(1) Diffrential Gear Lock



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TRACTOR LOADING /UNLOADING

Depressing the differential gear lock pedal will make both rear wheels roll at the same speed. Releasing the pedal will automatically unlock the differential gear..

⚠ WARNING

- **Make sure to release the differential gear lock when making a turn.**

[Otherwise]

The tractor will not turn in the intended direction and may cause an accident.

⚠ CAUTION

- **Never lock the differential gear when driving on a road.**

[Otherwise]

Driving will be unstable and the tractor may cause an accident.

⚠ DANGER

- **Fix the direction so that the tractor will not have to modify its direction on the loading bridge, and proceed at the lowest speed.**
- **Never depress the clutch pedal to change direction or stop.**

[Otherwise]

There is a danger that the tractor may turn over.

⚠ WARNING

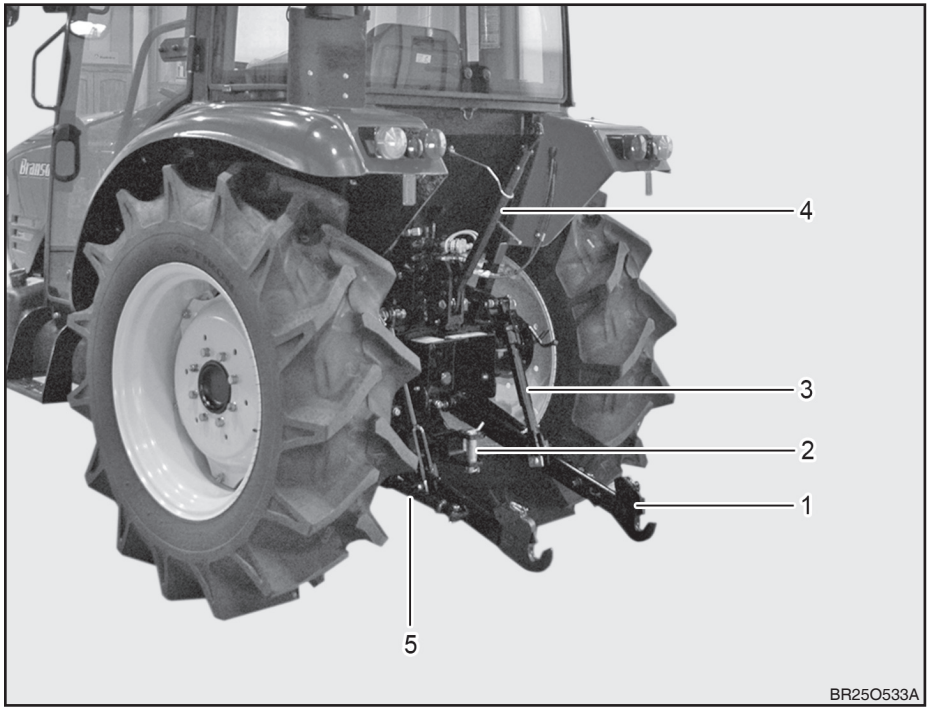
- **Loading and unloading must be done on flat and safe place, with the engine turned off and the parking brake engaged. The loading lamp must be non-slippery and have sufficient strength, length, and width for the tractor. To avoid slipping of the loading lamp, latch it securely onto the truck. Move the tractor backward when loading, and forward when unloading. Fasten the tractor to the truck securely with rope.**

[Otherwise]

The tractor may fall off the truck and cause an accident.

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INSTALLING 3POINT LINK

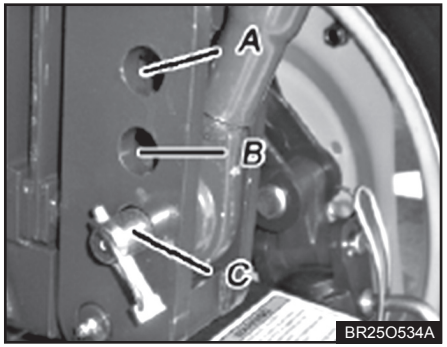


(1) Lower Link
(2) Draw Bar
(3) Lift Link
(4) Center Link
(5) Stabilizer Link

1. Attach the lower link to the link hook and insert pin into hook.
2. Connect Check chain to bracket & Lift link mounting hole and adjust length.

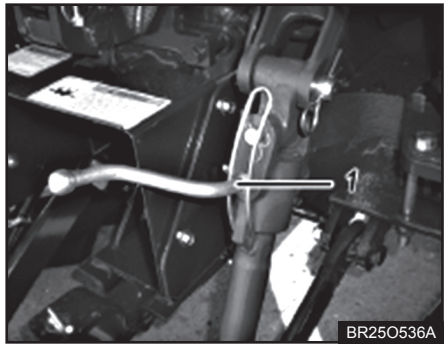
※ Refer to instruction of implement for adjusting swing clearance.

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(A) Low Traction (B) Middle Traction
(C) High Traction





(1) Lift Link

3. There are 3- holes in top link mounting bracket Top link needs to be moved from (A) to (C) as followed.
   - The Position “A” allows the minimum pressure.
   - The Position “B” is standard.
   - The Position “C” allows the maximum pressure.

4. Adjusting for vertical float.

   Depending on the position of the steel plate, lift links can be adjusted to allow for vertical float or to lock out float.

NOTE

- **May be damaged the screw thread when center link excessively over the adjustment range.**

5. Turn the A-lever clockwise to rise up lift links. On the contrary, turn the A-lever counter clockwise to lower down lift links.

⚠ CAUTION

- **When stopping the engine, never stop it with the reducer lever.**
- **After stopping the engine, make sure to apply the parking brake.**

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PRECAUTIONS FOR CONNECTING THE IMPLEMENT

1. When engaging or disengaging the implement by moving the tractor, make sure that no one is allowed around the tractor or between the implement and the tractor.
2. Engage or disengage the implement on a flat and safe place. Supply proper lighting at all times and especially at night.
3. When engaging a heavy implement, load the weight on the front to keep the balance of the tractor.
4. When adjusting the implement, apply the parking brake, switch off the engine, and confirm that the PTO lever is on the “N” position.
5. When towing something, make sure to use the draw-bar.
6. Increase the wheel tread on a slope or when towing.
7. Depending on the implement, the overall length may become very long. Pay particular attention to people or objects nearby when making a turn.
8. Do not substitute the balance weight with a person or anything else. Always use the recommended balance weight.
9. For front loader work, mount an implement on the rear to keep the balance of the tractor.
10. Read the instruction manual of the implement mounted to the tractor.

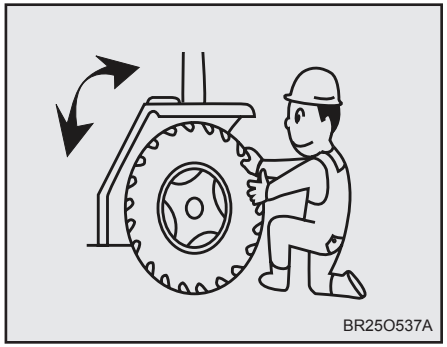
⚠ WARNING

- **When the PTO shaft is not in use, affix the safety cover on it.**

[Otherwise]

There is a risk of getting entangled in the tractor or injured.

ADJUSTING WHEEL TREAD



Adjust the wheel tread depending on the type and condition of the work. Also, increase the wheel tread when working on a slope or towing.

1. Pull the parking brake, block the front wheels, and raise the body with a jack to make the rear wheel separate from the ground.
2. To make sure adjustments alternatively between the left and right wheel.

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POWER STEERING

⚠ WARNING

- **When changing tires, please use a hoist or strong support and make sure the tractor does not move.**

[Otherwise]

There is a risk of death or injury.

[CABIN]

	DESCRIPTION	TIGHTENING TORQUE
FRONT & REAR WHEEL	Bolts on wheels and axle	280 lbf-ft (40 kgf.m)
	Bolts on rim and disk of wheels	250 lbf-ft (35 kgf.m)

[ROPS HST]

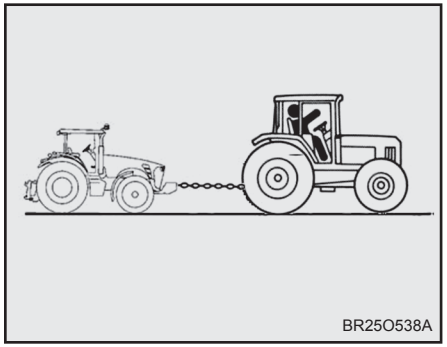
	DESCRIPTION	TIGHTENING TORQUE
FRONT WHEEL	Bolts on wheels and axle	130 (18 kgf.m)~ 145 lb-ft (20 kgf.m)
	Bolts on rim and disk of wheels	160 (22 kgf.m) ~ 175 lb-ft (24 kgf.m)
REAR WHEEL	Bolts on wheels and axle	130 (18 kgf.m)~ 145 lb-ft (20 kgf.m)
	Bolts on rim and disk of wheels	125 (17 kgf.m)~ 150 lb-ft (21 kgf.m)

⚠ CAUTION

- **Pay attention to the steering wheel while driving, because it can be very lightly manipulated when the engine is running.**
- **Power steering will run only when engine is running. When engine is idling, power steering may feel a little heavy.**
- **If the wheel is steered to the maximum, the relief valve is opened and a warning sound will be made. Do not continue to operate the tractor with the warning sound.**
- **Do not steer the wheel unnecessarily, because steering the wheel without moving will attribute to early wear of tires and rims.**

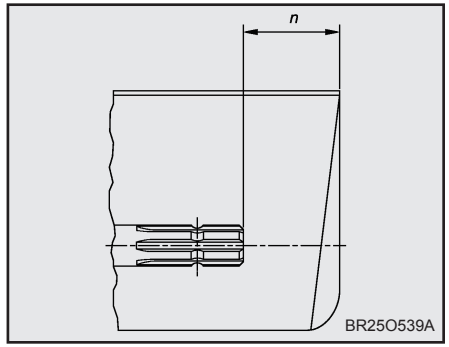
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TOWING INSTRUCTIONS



1. Tractor traction should be conducted in short distance. (For instance, from inside to outside)
2. Long distance towing is not allowed in traffic congestion.
3. In case tractor needs to tow, use strong and safe checked chain.
4. Traction must be conducted from the rear in usage of tow bar, tow hook and 3-point linkage.
5. When driver turns the handle, use the brake if necessary.
6. During traction, the transmission, not being lubricated but rotating or other parts in order to prevent breakage, please note the following:
7. Towing should be in short distance.
8. Traction speed is restricted to less 8 km/h.
9. If possible, start the engine in order to make the power steering lubricated.
10. Place the main gearshift and sub gearshift in neutral.

PTO SPECIFICATIONS & PRECAUTIONS



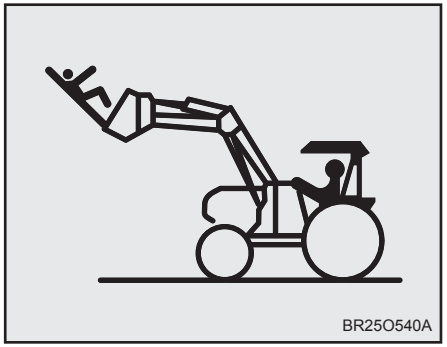
Wear close fitting clothing. Stop the engine and be sure that PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.

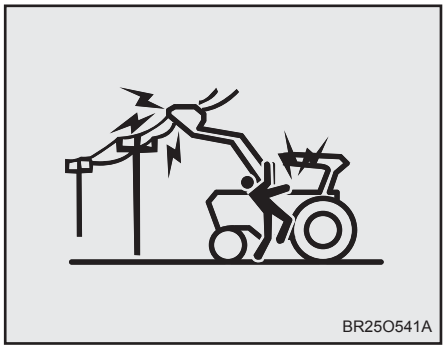
Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft and the added adaptor device as outlined in the table.

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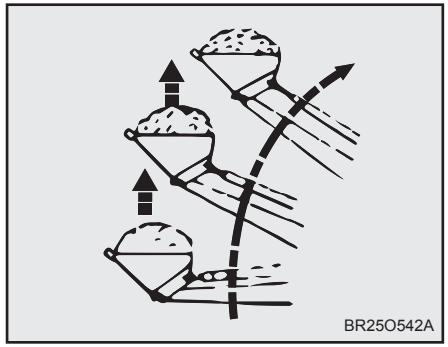
LOADER OPERATION

PTO Type	Diameter	Splines	0.20 in. (n ± 5 mm)
1	1.378 in. (35 mm)	6	3.58 in (91 mm)


BR25O540A


BR25O541A

Work with front-end loader. (Risk of falling objects)


BR25O542A

⚠ WARNING

To avoid serious in jury or death:

- **Do not lift or carry anyone on buckets, forks spears or any other portions of the loader or loader attachments.**
- **Inadvertent movement of the loader or attachment could result in serious injury or death.**

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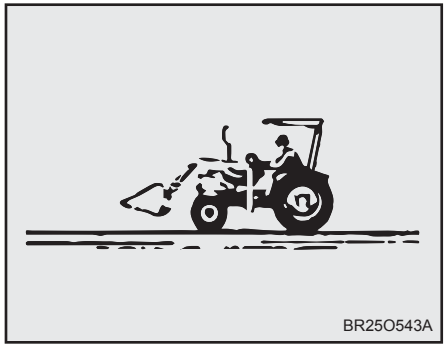
CARRYING THE LOAD

⚠ WARNING

- **Avoid contact with electrical power lines by loader or attachments.**
- **Do not lift or carry anyone in the bucket or on any other position of loader attachment.**
- **Inadvertent movement of the loader or attachment could result in serious injury or death from falling or crushing.**

⚠ CAUTION

- **Make sure material in bucket cannot roll out and down on tractor when bucket is raised to full height.**
- **Keep clear of overhead obstructions such as trees, limbs or power lines when raising bucket.**
- **When lifting the load, keep the bucket positioned to avoid spillage.**



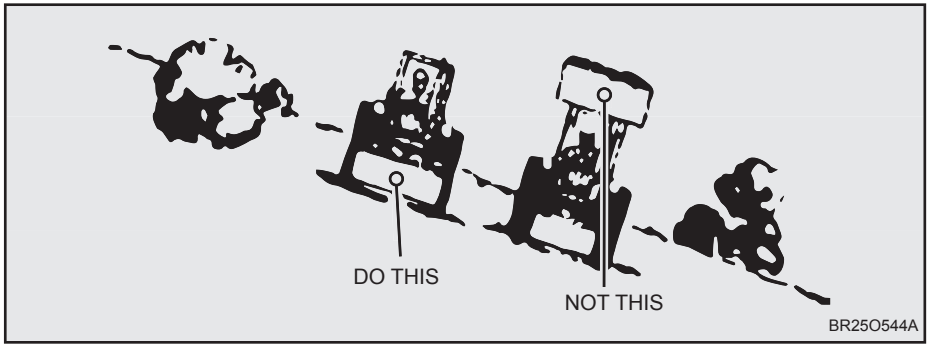
1. Position the bucket just below the level of the tractor hood for maximum stability and visibility, whether the bucket is loaded or empty.
2. Use extreme caution when operating the loader on a slope, keep the bucket as low as possible, this keeps the bucket and tractor center of gravity low and will provide maximum tractor stability.

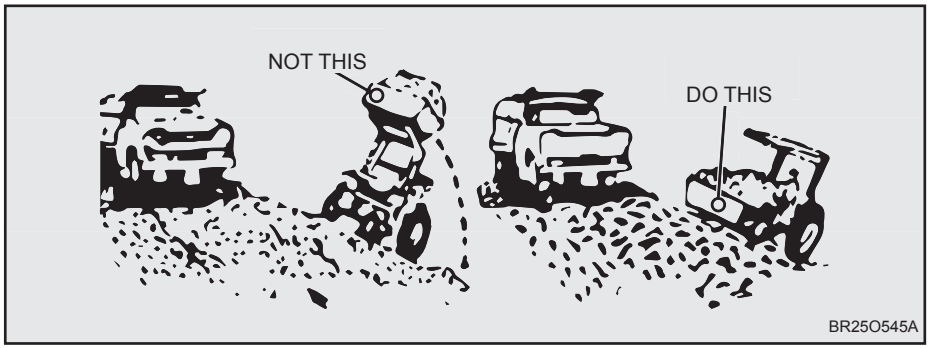
⚠ CAUTION

- **Operating the loader on a hillside is dangerous. extreme care is recommended.**

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HANDLING LARGE HEAVY OBJECTS





When transporting the load, keep the bucket as low as possible to avoid tipping, in case a wheel drops in a rut.

⚠ WARNING

- **Do not use front end loaders for handling large, heavy objects such as large, round or rectangular bales, logs and oil drums.**
- **Handling large heavy objects can be extremely dangerous due to.**
  1. **Possibility of rolling the tractor over.**
  2. **Possibility of upending the tractor.**
  3. **Possibility of the object rolling or sliding down the loader arms onto the operator.**

⚠ CAUTION

- **When transporting the load, keep the bucket as low as possible to resist tipping, in case a wheel drops in a rut. This will avoid tipping and possible injury.**

5

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ROPS FOLDING METHOD

HOW TO FOLD DOWN THE ROPS

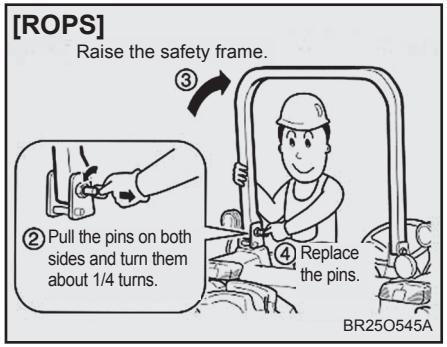
⚠ CAUTION

The following safety precautions should be thoroughly understood before attempting machine assembly.

- **Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks, or other mechanical devices.**
- **Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.**
- **Arrange parts to be assembled neatly in the work area and have tools and other mechanical assisting devices in easy reach.**
- **Inspect all parts and assemblies thoroughly and remove any sharp edges, grease, oil, or dirt which might cause pieces to slip when handling.**

⚠ CAUTION

- **Preview the assembly instructions in your operator's manual before proceeding further.**
- **If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also, insure that the blocking material is on a clean, dry surface.**
- **Never put hands or any other body under blocked up assemblies if at all possible.**
- **Always wear goggles or safety glasses when hammering, grinding or drilling metal parts.**
- **If the assembly calls for welding or cutting, be sure that there are no flammable materials close at hand and that bystanders have taken necessary precautions.**



1. Turn the handle to separate the push plate and the ROPS.
2. Pull the pins on both sides of the tractor and turn them about 1/4 turns to release the lock of the ROPS.
3. Raise the ROPS a little.
4. Replace the pin.
5. Fold down the ROPS, and the pins will lock into place.

※ If it is not certain whether the pins are fixed, shake the frame a little bit to fix the pins for sure.

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HOW TO FOLD DOWN THE ROPS

1. Pull the pins on both sides of the tractor and turn them about 1/4 turns to release the lock of the ROPS.
2. Raise the ROPS a little.
3. Replace the pins.
4. Stand the ROPS up, and the pins will lock into place.

※ If it is not certain whether the pins are fixed, shake the ROPS a little bit to fix the pins for sure.

5. Turn the handle to fix the push plate and the frame.

⚠ CAUTION

- **Don't fasten your seat belt after folding ROPS.**
- **When you drive tractor, fold up vertically.**
- **Fasten your seat belt after folding up ROPS.**
- **When working with the tractor, don't fold down ROPS.**
- **Don't change ROPS without authority.**
- **Before using tractor, check your ROPS support and other parts.**
- **If there is damage to the ROPS, change ROPS at once.**

[Otherwise]

If the tractor rolls over, you could be injured or death may occur.

※ROPS Are a very important structure for protection on roll over, always check your ROPS.

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MEMO

Branson TRACTORS Branson Machinery LLC

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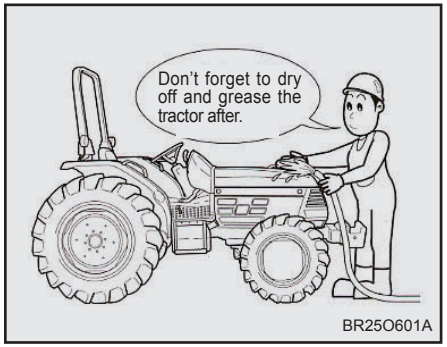
6. MAINTENANCE AFTER WORK

MAINTENANCE AFTER WORK.....6-2

MAINTENANCE FOR PROLONGED STORAGE 6-2

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MAINTENANCE AFTER WORK



After work, clean the tractor. After cleaning, dry the moisture and supply grease into each grease nipple.

Avoid water on electrical parts whenever possible, as it will cause equipment breakdown.

⚠ DANGER

- **When covering the tractor, make sure that the engine or the muffler has fully cooled down.**

[Otherwise]

There is a risk of fire.

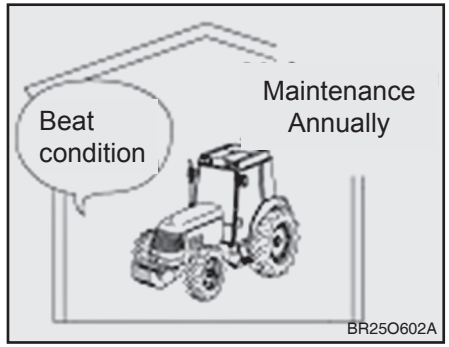
⚠ CAUTION

- **When carrying out checking, maintenance, or repair, make sure to turn off the engine.**

[Otherwise]

There is a risk that you may be entangled in the tractor or get injured.

MAINTENANCE FOR PROLONGED STORAGE



If you carry out maintenance during the off season, you can ensure optimum condition of the tractor as well as safe and comfortable working conditions during the busy season. Also, in order to secure the safety of each part of the tractor and to prevent an accident that may occur due to poor maintenance, arrange with your authorized dealer for periodic maintenance once a year.

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In particular, we recommend that the electrical cables and the rubber hoses, such as fuel hose, steering wheel hoses and radiator hoses, be replaced every two years.

⚠ CAUTION

- **When storing the tractor for a long time, take out the key and keep it in a safe place. Otherwise, there is a risk of accident.**

[Otherwise]

There is a risk of getting entangled in the tractor or injured.

⚠ WARNING

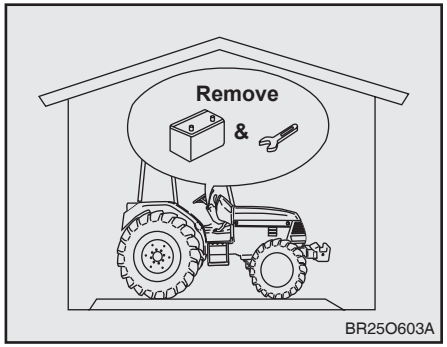
- **Carry out maintenance on a flat and safe place where the tractor will not fall or move and there is no traffic danger. Also, block the front tires to prevent moving of the tractor. Otherwise, there is a risk of accident, such as overturning of the tractor.**

⚠ WARNING

- **Carry out checking and maintenance for each part every year.**
- **In particular, replace the fuel pipe and the steering wheel hose every two years. Otherwise, there is a risk of accident or machinery breakdown due to poor maintenance.**
- **When carrying out checking or maintenance, make sure to stop the engine.**
- **Replace the covers that have been detached for checking or maintenance.**
- **Carry out checking or maintenance after heated parts, such as muffler, engine or transmission, have fully cooled down.**

[Otherwise]

There is a risk of getting burnt.



When the tractor will not be used for a long time, store it in the following manner.

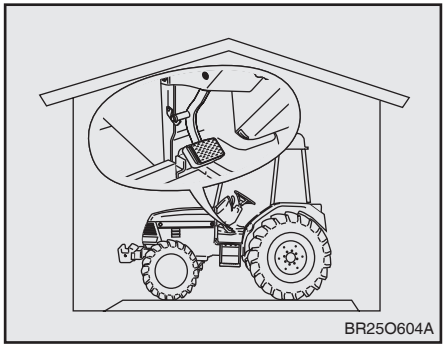
1. For long storage, put the ignition switch to “OFF”
2. Select a dry and well-drained place for storage. Remove the weights & implement or put it down onto the ground.
3. Apply the anti-corrosion oil or engine oil and grease on the parts that are subject to rust.

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4. Fill up the fuel tank. Empty space in the fuel tank will produce dew-drops that will produce condensation that will be the cause of rust formation. And lock the fuel cock to “C”. (Closed)
5. Disconnect the battery completely and store it away from the tractor in a well-ventilated, dry, dark place if possible. When the battery is attached to the tractor, make sure to connect the (+) terminal first

⚠ CAUTION

- **The battery will be discharged even if it is not in use. Recharge it fully every 12 months.**



6. Drain the coolant.
7. Cover the air cleaner, muffler, and engine oil inlet with plastic sheets to keep moisture away.
8. Keep the clutch pedal in a depressed position to avoid rust on the clutch.
9. Maintain the air pressure in the tires.

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7. PERIODIC MAINTENANCE AND ADJUSTMENT

PERIODIC MAINTENANCE SCHEDULE.....7-2

OIL, GREASE AND ANTI-FREEZE CHART 7-4

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PERIODIC MAINTENANCE SCHEDULE

CHECK ITEMS \ RUNNING HOURS		50	100	150	200	250	300	350	400	450	500	550	600	650	700	1YR	2YR
1. Engine oil	R	◎					●				●						
2. Engine oil filter	R	◎					●					●					
3. Transmission fluid	R	◎						●						●			
4. Transmission fluid filter	R	◎						●						●			
5. Front axle fluid	R	◎						●						●			
6. Radiator cleaning		At the time the coolant is replaced															
7. Fuel oil filter and element	C		●		●		●		●		●		●		●		
	R						●						●				
8. Coolant		Check before every work (Replace every year)															
9. Air cleaner element	CL	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	R										R						
10. Fan and radiator cleaning	CL	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
11. Battery solution		Replace every two years															
12. Battery (specific gravity)	C		●		●		●		●		●		●		●		
13. Fuel pipe and connection	C	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	R																●
14. Steering wheel hose	C	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	R																●
15. Radiator hose	C				●				●				●				
	R																●

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CHECK ITEMS \ RUNNING HOURS		50	100	150	200	250	300	350	400	450	500	550	600	650	700	1YR	2YR
16. Hydraulic fluid hose	C		●		●		●		●		●		●		●		
	R															●	
17. Fuel hose	C		●		●		●		●		●		●		●		
	R															●	
18. Electric cables	C	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
19. Greasing	C	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
20. Tightening handles	C		●		●		●		●		●		●				
21. Tightening bolts & Nuts	C	●	●		●		●		●		●		●		●		
22. Cooling fan belt	A	●	●		●		●		●		●		●		●		
23. Clutch	A		●		●		●		●		●		●		●		
24. Brake	A		●		●		●		●		●		●		●		
25. Engine breed pipe	C	●	●		●		●		●		●		●		●		
26. Engine crankcase cleaning	CL						●						●				
27. Intake/exhaust gas valves	C												●				
28. Fuel injection valve	C												●				
29. Generator motor	C	●	●				●				●						
30. Hydraulic system	C	●	●				●				●						

※ Meanings of symbols=R: Replace C: Check A: Adjust CL: Clean
※ Inspection should be done every 50 hours. If the tractor is not used much, inspect every year.
※ Replace parts every two years regardless of running hours.

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OIL, GREASE AND ANTI-FREEZE CHART

NO	ITEM	TYPE	REMARK
1	Fuel	Diesel (Summer : S, Winter : W)	Use winter diesel when temperature in below 50°F
2	Engine oil	SAE 10W-40	
3	Grease	Arctic Grease Below 14°F (-10°C) SAE (NLGI) #0, #1 32~-22°F (0~-30°C) SAE (NLGI) #2 32~122°F (0~50°C)	
4	Coolant Anti - Freeze	ASTM D4985 Extended Lift antifreeze	
5	Transmission / Hyd oil	Branson Origin Oil Texaco TDH oil, 1893	
6	Front axle oil	SAE 80W-90	

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FUEL, OIL AND COOLANT CHART

NO	ITEM	CAPACITY		REMARK
		CABIN	ROPS	
1	Fuel	12 gal (45 L)	12 gal (45 L)	※ HST: 9.51 gal (35 L)
2	Engine oil	1.4 gal (5.3 L)	1.2 gal (4.3 L): 3225R/3625R 1.7 gal (6.4 L): 4125R/5025R/5845R	
3	Coolant	1.58 gal (6 L)	1.58 gal (6 L)	
4	Transmission / Hyd oil	9.7 gal (37 L)	9.7 gal (37 L)	
5	Front axle	1.9 gal (7 L)	1.9 gal (7 L)	

IMPORTANT

- **Above listed fuel, oil and coolant table is only for initial filling, and may be reduced at the time of replace.**

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CHECKING AND CHANGING OF OIL

Do not dispose of waste oils in waterways or in sewage system, but take appropriate measures such as contacting a waste oil disposal specialists.

⚠ DANGER

- **Never fill the fuel tank when the engine is running or hot. .**

[Otherwise]

There is a danger of fire.

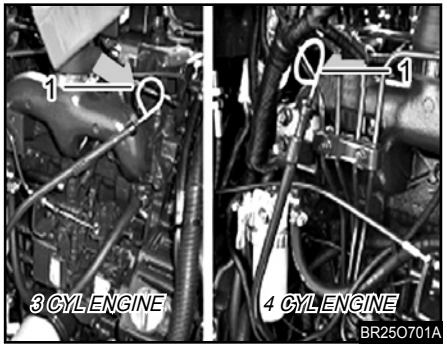
⚠ CAUTION

- **Do not change oil just after stopping the engine.**

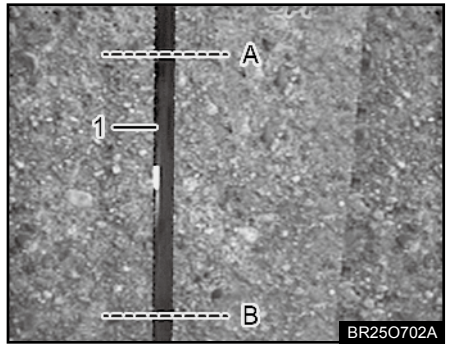
[Otherwise]

There is a danger of getting burnt.

ENGINE OIL



(1) Engine Oil Filler



(1) Dipstick
(A) Upper Limit *(B) Lower Limit*

► CHECKING OIL

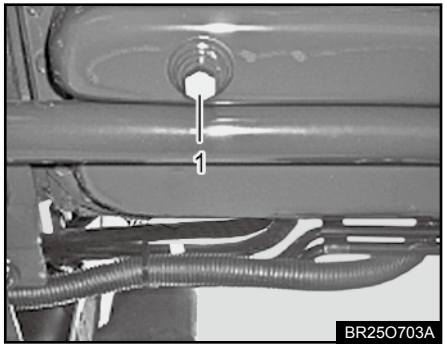
Pull out the dipstick, clean the tip of dipstick, put it back into the engine, and pull it out again to see if the oil level is between the upper and lower limit. If the oil level is below the lower limit, add oil.

⚠ CAUTION

- **Check the oil lever before the engine is started or after the engine is cooled down.**

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TRANSMISSION / HYD OIL FLUID



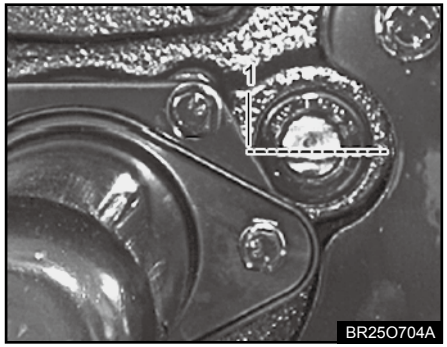
(1) Drain Plug

► CHANGING OIL

Drain the oil by removing the plug under the engine. Put new oil through the engine oil filler hole. Change the oil periodically, and select the right type of oil depending on the temperature and usage.

⚠ CAUTION

- **Drain the oil when oil is warm but be careful. If oil is hot, there is a risk of getting burnt.**

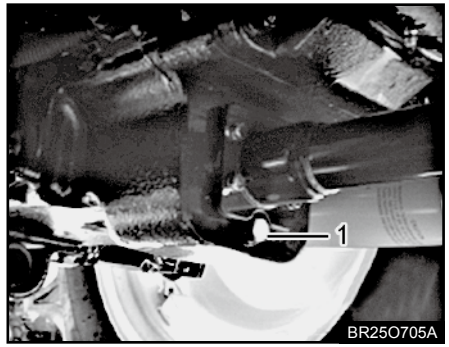


(1) Inspection Window

► CHECKING OIL

Check the fluid level through the inspection window at the rear side of the transmission compartment.

The level should be 1/3 above in upper window. If the fluid level is below proper lever, add fluid



(1) Drain Plug

► CHANGING OIL

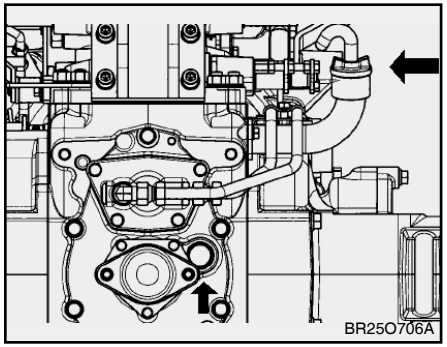
Drain the fluid through the drain holes under the rear axle case and rear axle housing. Supply the fluid through the filler hole behind the hydraulic case.

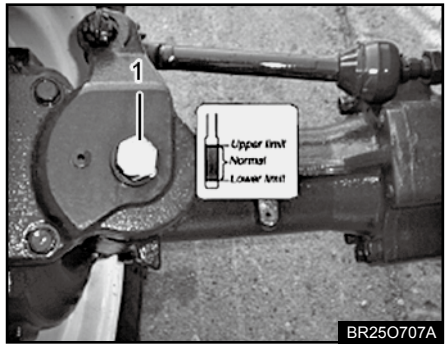
1. Transmission oil can be used for the hydraulic system and for the power steering unit.
2. Make sure to use the genuine Branson transmission fluid.

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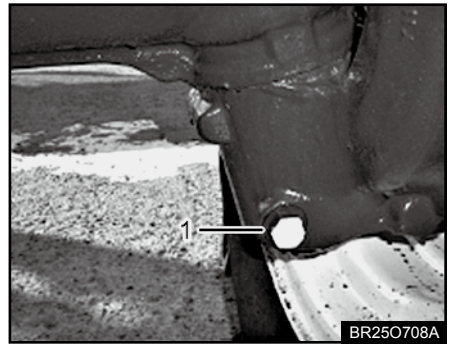
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FRONT AXLE FLUID





(1) Front Axle Oil



(1) Drain Plug

⚠ CAUTION

- **Drain the oil when oil is warm but be careful. If oil is hot, there is a risk of getting burnt.**

► CHECKING

Open the fluid filler cap at the upper right side of the front axle, clean the tip of the gauge, dip the cap without screwing in, and take it out again to read the fluid level.

Refill the fluid as necessary, and also check for leaks.

► CHANGING OIL

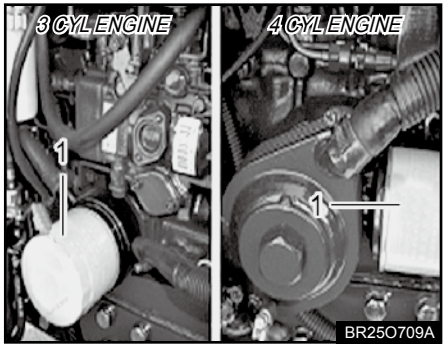
Drain the fluid through the drain holes under the front axle.

Refill the fluid from the upper right side of the front axle.

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FILTERS / COOLANT REPLACEMENT

ENGINE OIL FILTER



(1) Engine Oil Filter

Replace it every 300 hours or when engine oil is changed.

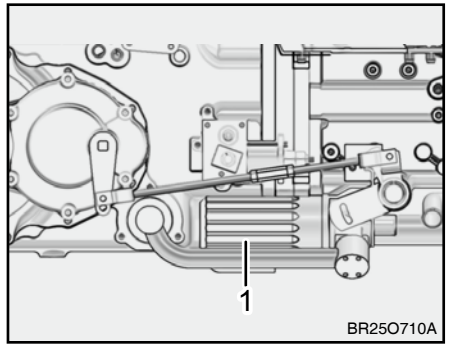
NOTE

- **First 50HR filter has to be changed.**

► REPLACEMENT

1. After draining the engine oil, turn the cartridge to the left with the filter wrench.
2. Apply a thin film of oil over the rubber ring on the bottom of the new cartridge and attach the new filter securely.
3. After changing the engine oil, start the engine and run it until the engine oil pressure warning lamp is turned off .
4. After the oil pressure warning lamp is turned off, check the oil level again. Add oil as necessary.

TRANSMISSION OIL FILTER



(1) Transmission Oil Filter

The filter is a cartridge type.

NOTE

- **First 50HR, filter has to be changed.**

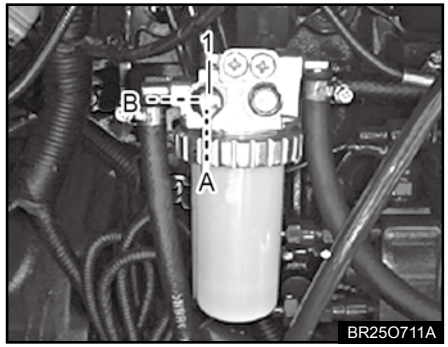
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► REPLACEMENT

1. After draining the transmission fluid, turn the cartridge to the left to take it out.
2. Apply a thin film of fluid over the rubber ring on the bottom of the new cartridge and attach the new filter securely.
3. After changing the transmission fluid, start the engine to circulate the fluid and then stop the engine. Check the fluid level at dipstick on left axle housing and add fluid as necessary.

FUEL FILTER

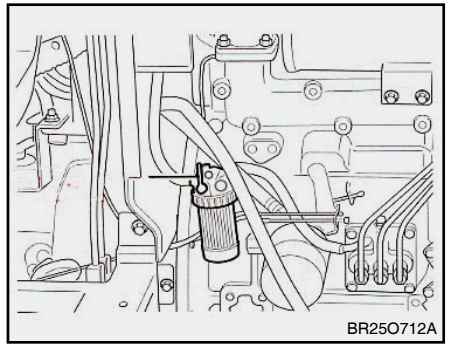


(1) Fuel Filter
(A) Open *(B) Close*

Cleaning and replacement of fuel filter element

1. Put the fuel cock to “B” position
2. Take out the filter and remove water and dust inside the filter.
3. After cleaning the filter, replace it and put the fuel cock to “A” position. Remove the air.
4. Replace the filter element.

DRAINING AIR IN FUEL LINE

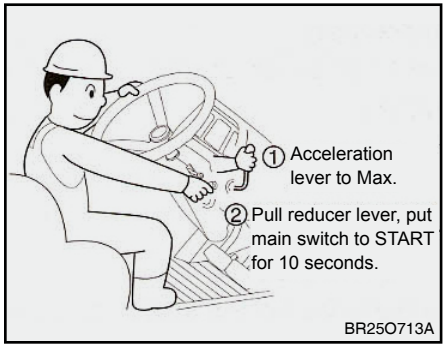


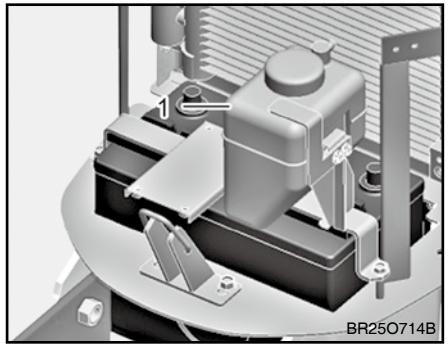
Drain the air from the fuel tank, fuel filter, and fuel filter element when the engine stops as the fuel runs out or during maintenance

1. Refill fuel to fuel tank.
2. Put the fuel filter valve to “OPEN.”
3. Put the acceleration lever to MAX and the key switch to START to run the starting motor for about 10 seconds. That completes the procedure.

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COOLANT





(1) Wash Liquid Tank

NOTE

- **If air is not removed, then there will be air in the fuel lines. Please check fuel lines for leakage or breakage.**

► CHECKING

Open the engine hood and see if the water lever in the reservoir is between the upper and lower limit. Add clean water as necessary.

► REPLACEMENT

1. Open the radiator cap and the drain plug to completely drain the water from the radiator.
2. Rinse the radiator with tap water until no dirt or rust comes out.

※For better results, fill the radiator with water mixed with radiator flush, run the engine for over 15 minutes, and drain the water solution

3. Replace the drain plug, add anti-freeze and fill the radiator with tap water.
4. Replace the radiator cap and run the engine to mix the anti-freeze and water.

⚠ DANGER

- **Do not open the radiator cap while the engine is running or right after the engine is stopped. Open the radiator cap only after the engine is stopped and fully cooled down.**

[Otherwise]

Hot water will splash and may cause burn injury.

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► HANDLING OF ANTI-FREEZE

Anti-freeze has an effect of lowering the freezing point of water. This tractor is filled with international genuine anti-freeze when delivered from the factory. As the freezing point may differ depending on the mixture ratio, refer to the following table in very cold weather to ensure safety.

► ANTI-FREEZE MIXTURE RATIO

Outdoor Temp (‘F)	23	14	5	-4	-13	-22
Ratio (%)	82	73	66	61	55	49
Anti-Freeze (%)	18	27	34	39	45	51

⚠ CAUTION

- **When replacing the coolant, add anti-corrosive solution and run the engine for about five minutes to mix it with the water.**
- **For correct mixture ratio, refer to the manufacturer’s instructions.**
- **When refilling the coolant, add only tap water.**
- **As anti-freeze expires in one year, replace the coolant every year.**

OTHERS

RADIATOR SCREEN AND AIR CLEANER



(1) Air Cleaner

The Air cleaner removes the dust mixed in the intake air, thereby preventing abrasion of cylinder liners and piston rings to keep the engine in good condition. When working in dusty environments clean the air filter every 50 hours and replace it every 400 hours.

In normal working environments, clean the air filter every 100 hours and replace it every 1,000 hours. If the running hours are shorter, replace the element after one year.

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► CLEANING OF AIR CLEANER

Open the cover and take out the element. Blow air inside the element or shake it to take the dust off the element. Be careful to avoid damage to the pins.

► CLEANING OF RADIATOR SCREEN

Pull out the air cleaner fixing band for radiator disassembly. Pull up the radiator cleaner in the direction of arrow mark and unfold it upward and pull out upward.

Remove straw and dust. Clean it before and after work.

BATTERY



1. When replacing the battery, make sure to install the battery of the same capacity as designated in the instruction manual.
2. To preserve the environment and to recycle resources, do not discard the old battery and hand it over to the battery dealer for proper disposal.

⚠ DANGER

- **Avoid heat when checking or charging the battery.**

[Otherwise]

The battery may explode and cause burns or other injury.

⚠ CAUTION

- **When connecting the battery cable, connect the (+) terminal first. When disconnecting the cable, disconnect the (-) terminal first.**

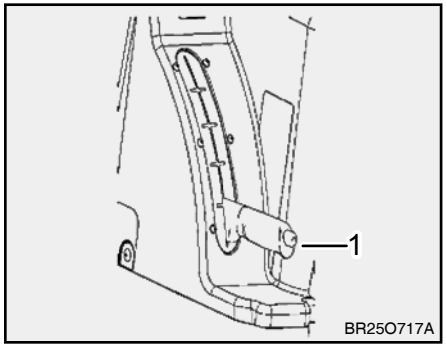
[Otherwise]

There is a risk of getting burnt due to shorting of the battery.

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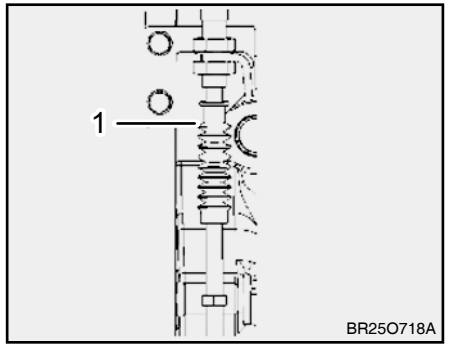
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ADJUSTING PARKING BRAKE



(1) Parking Brake Lever

1. Unscrew fixing nuts of parking brake cable with parking brake released.



(1) Parking Brake Cable

2. Tighten fixing nuts of parking brake cable and fix them at position where clearance amount is 0.8~1 in (20~25 mm) from the end of parking brake lever.

FUEL PIPES AND HOSES

Check for damage to fuel hoses, steering wheel hoses (pipe), and radiator hoses, and see if there is any leakage or loosening of bolts.

Replace the pipes and hoses every two years even though they are not damaged.

⚠ CAUTION

- **When replacing the fuel hose, drain air.**

⚠ DANGER

- **Inspect the condition of the fuel hoses and check for fuel leakage from any damaged parts of the hoses.**

[Otherwise]

There is a risk of fire.

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ELECTRICAL CABLES

Open the hood of the engine and check if any cable is in contact with other parts, or if any insulation is peeled off or damaged, or any contact is loosened.

Damaged cables must be repaired by an authorized dealer. Arrange for periodic maintenance for cables every 50 hours or once a year even thought the cables are not damaged.

⚠ DANGER

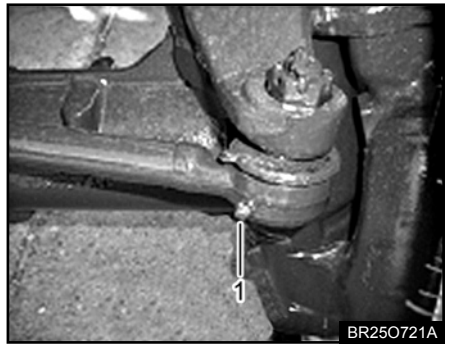
- **Before starting to work everyday, check if any cable is in contact with other parts, or if any insulation is peeled off or damaged, or any contact is loosened.**
- **Before and after work, remove any straw or dust on the battery or cables.**

GREASING

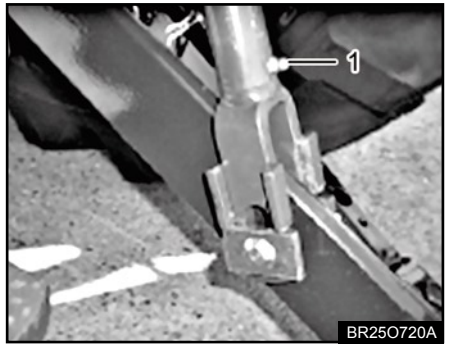
Apply grease every 50 hours. Check the relevant parts before starting work everyday and add grease as necessary. After working on wet areas, make sure to apply grease to the tractor.



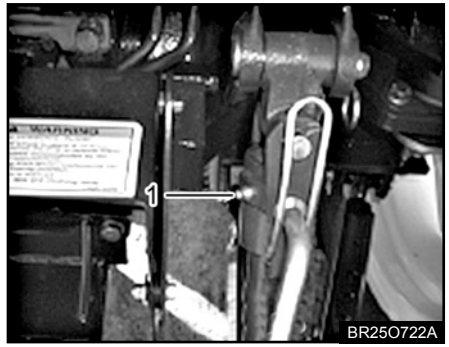
(1) Front Axle Support



(1) Tie Rod LH / RH



(1) Lift Link (R)

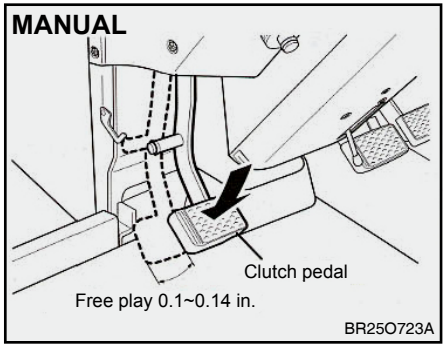


(1) Lift Link (L)

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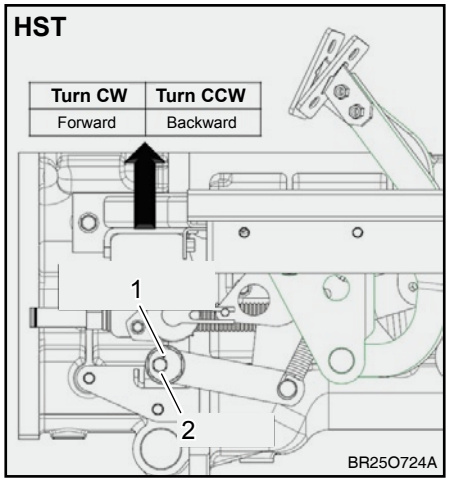
CLUTCH



(1) Clutch Pedal
(A) Free Play : 0.1~1.4 in (2.5~35.6 mm)

Depress the clutch pedal and check if the free play is as required. If not, adjust the free play with the stopper bolt and cable. After you adjust free play, make sure to retighten the retaining nut.

HST PEDAL



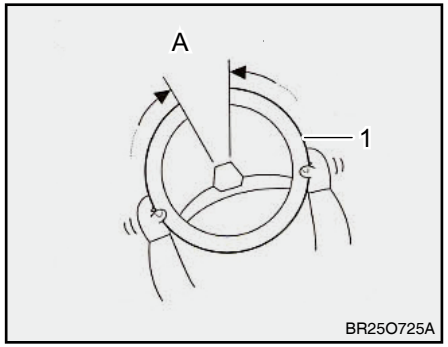
(1) Neutral Adjust Shaft (B) Fox Bolt

When machine is move without depressing HST pedals, need to adjust as below HST pedal adjustment procedure.

1. Release fix bolt
2. Turn neutral shaft slightly to CW or CCW (CW – Forward, CCW – Backward)
3. Tighten fix bolt.
4. Run engine and check moving without HST pedal operation.
5. If machine should move after adjustment repeat 1 to 4 steps.

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STEERING WHEEL



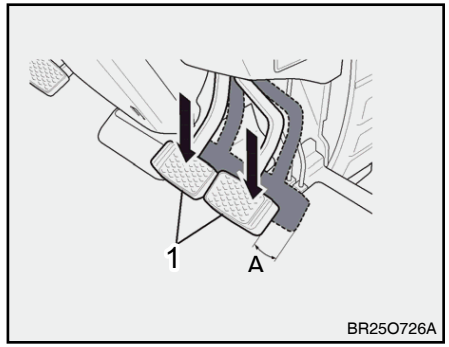
(1) Steering Handle
(A) Free Play : 0.8~ 2.0 in (20.3 ~50.8 mm)

When the steering wheel is turned lightly, there should be free play 0.8~2.0 in. If the extent of the free play exceeds this range, the steering wheel may feel heavy or the tractor may not move straight. If the free play is not normal, have it fixed at your nearest authorized dealer.

⚠ WARNING

- **Check if the steering wheel vibrates severely or has no free play. Otherwise, there is a risk of accident.**

BRAKE



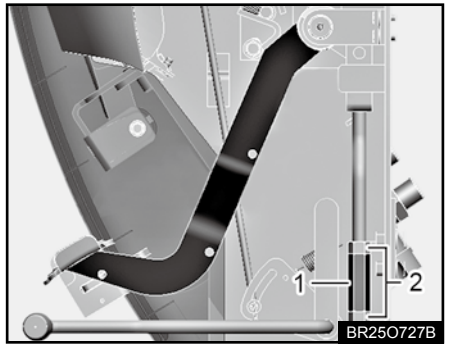
(1) Brake Pedal
(A) Free Play : 0.2 in~ 0.4 in (5~10.2 mm)

⚠ WARNING

- **Check the brakes to avoid one-sided braking. Otherwise, there is a risk of accident.**
- **If the extent of free play different between the two brakes pedals, one-sided braking will occur. Make sure that the free play of both brake pedals is the same.**

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- In this case, the free play of the brake pedal is 0.2~0.4 in (5~10 mm).
- Adjust both of the brake pedals.

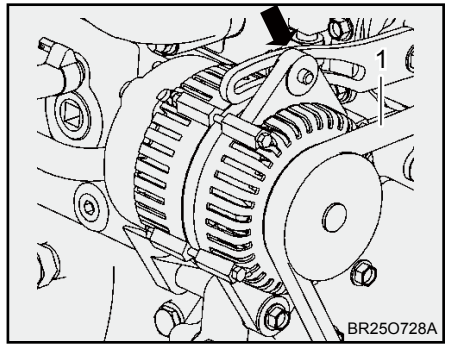


(1) Brake Rod
(2) Nut

►HOW TO ADJUST BRAKE FREE PLAY

1. Remove dashboard.
2. Loosen fixing nut.
3. Adjust stopper bolt so that the gap between bolt head and brake pedal arm is 0~0.02 in (0~0.5 mm).
4. Tighten the fixing nut.

FAN BELT



(1) Fan Belt

After removing right side of dashboard, loosen fixing nut and adjust stopper bolt so that the gap between stopper bolt head and brake pedal arm is 0~0.02 in (0~0.5 mm) and tighten the fixing nut again.

Open the engine hood and press the middle of fan belt with finger to see if the belt sags about 0.4~0.6 in or if there is any damage to the belt. If the sagging is not correct, loosen the

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generator bolt and move the generator to adjust the tension of the fan belt. If the fan belt still slips after the generator is moved to the maximum, replace the belt with a new one. New belts must be inspected after 50 hours of use.

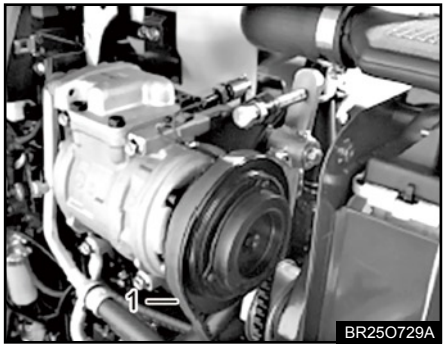
⚠ CAUTION

- **Carry out inspection or maintenance after the engine if fully cooled down.**

[Otherwise]

There is a risk of getting burnt.

AIR COMPRESSOR BELT



(1) Air Compressor Belt

Check if belt is sagging for about 0.39~0.6 in (10~15 mm) or check for any damage to the belt by opening bonnet and engine side cover and pressing the middle of fan belt.

When it is not sagging enough, adjust tension by using adjusting bolt at the front of compressor.

Change the belt when tension cannot be adjusted even when the bolt is tightened as much as possible.

⚠ CAUTION

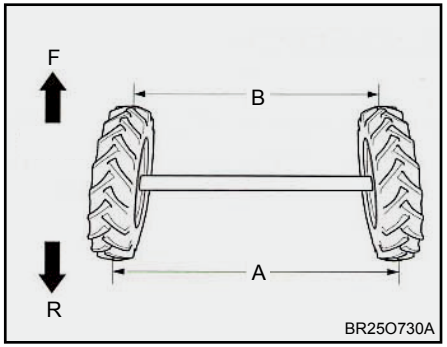
- **Carry out inspection or maintenance after the engine if fully cooled down.**

[Otherwise]

There is a risk of getting burnt

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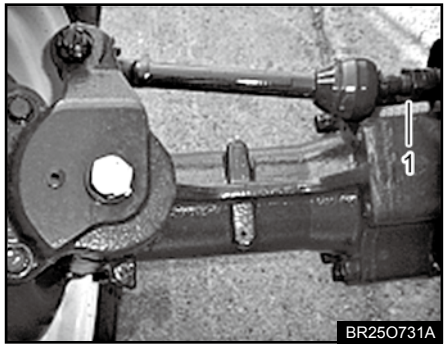
TOE-IN



(F) Front *(R) Rear*

►CHECKING

If the toe-in is not properly aligned, the steering wheel may be uncontrollable or the tractor may produce an abnormal vibration. Measure the distance A and the distance B of the front wheels and see if the different between the two measurements is 0.16~0.3 in (4~8 mm).



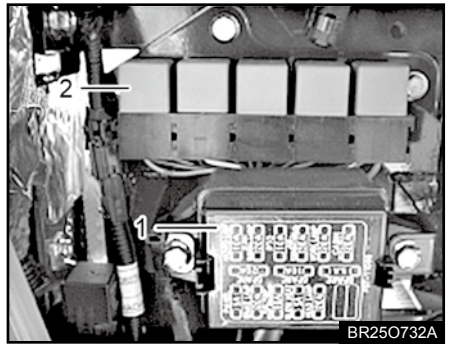
(1) Nut

►ADJUSTING

If not, loosen nuts at the end of the cylinder rod on both sides and adjust the length of the screws. Tighten the nuts when the toe-in is 0.16~0.3 in (4~8 mm).

Left and right adjustment of screw length must be same.

FUSE & FUSIBLE LINKS



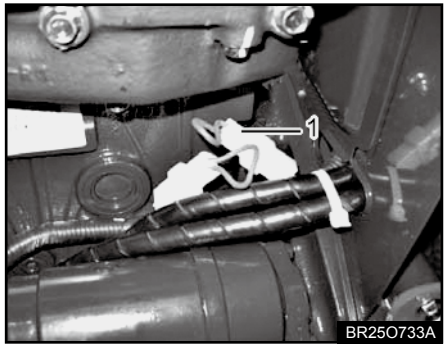
(1) Main Fuse *(2) Relay Box*

Stop the engine and check the main fuse. (Fusible link)

Open the fuse box cover and check the fuses. Replace any burnt-out fuses with new ones of required capacity.

A fusible link is a type of fuse, which burns and disconnects the current in the event of excessive current flowing in the circuit , if plastic coating is discolored when it is cut off, it should be inspected by a authorized dealer.

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(1) Fusible Links

If the fuse burns immediately after being replaced, it must be checked by the authorized dealer.

⚠ WARNING

- **When replacing the fuse, use only the on of the same capacity.**

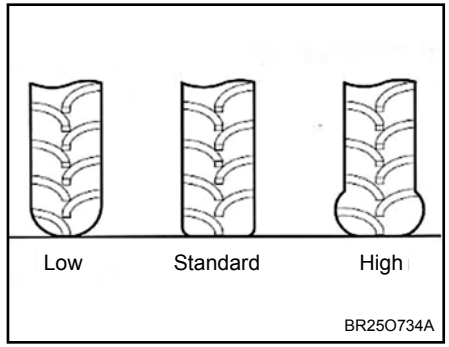
COLOR OF EXHAUST GAS

The exhaust gas may be a little black at the time of starting the engine, but normally its color is clear.

- Black – incomplete combustion due to too much fuel intake.
- White – misfiring or cold temperature.
- Blue – burning of engine oil

If the color of the exhaust gas remains black or white during operation, have the tractor inspected at your nearest authorized dealer.

TIRES PRESSURE



Adjust air pressure in front and rear tires to standard pressure.

Also, check if there are any cracks on the tires. When front wheels are put under a load of the front weights or a front loader, air pressure in the front wheels must be adjusted to the maximum in the chart as followed.

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[Air pressure in tires]

		Air pressure (psi)
With Implement	Front	29
	Rear	19
With loader	Front	44
	Rear	29

[Torque of wheel bolts]

Type	Torque (lb-ft)
Front wheel	130 ~ 145
Rear wheel	130 ~ 145

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8. TROUBLE SHOOTING

TROUBLESHOOTING 8-2

ENGINE 8-2
CLUTCH AND BRAKE 8-4
HYDRAULIC SYSTEM 8-5
ELECTRICAL SYSTEM 8-6

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TROUBLESHOOTING
ENGINE

If the tractor is not working properly, stop the engine and carry out an inspection based on the following table.

SITUATION	INSPECTION ITEM	SOLUTION
1. The motor does not start when the main switch is turned to START.	• Are you depressing the clutch?	• Depress the clutch fully and turn the main switch to START
	• Is the battery solution enough?	• Fill the battery solution and fully charge the battery.
	• Is the battery discharged?	
	• Is the battery terminal loosened or corroded?	• Clean and tighten the terminals. Apply grease to avoid rust
	• Is the main fuse burnt out?	• Replace the fuse
	• Is the key switch broken?	• Contact the dealer for repair or replacement.
	• Is the starting motor out of order?	• Contact the dealer for repair or replacement.
2. The motor starts, nut the engine does not start.	• Is the fuel tank empty?	• Fill up the fuel tank and drain the air.
	• Is the fuel mixed with air?	• Drain the air from the fuel.
	• Does the engine run only when the reducer lever is pulled?	• Charge the battery.
	• Is the fuel cock on “C”?	• Put the fuel cock on “O”
3. The engine revolution is irregular.	• Is the air mixed in the fuel system?	• Drain the water and replace the fuel.
	• Is the injection nozzle clogged?	• Have the injection nozzle repaired or replaced
	• Is the fuel filter clogged?	• Have the fuel filter washed or replaced.

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SITUATION	INSPECTION ITEM	SOLUTION
4. The engine is over heated	• Is the coolant lever low?	• Refill the coolant.
	• Is the fan belt slack or damaged?	• Adjust or replace the fan belt.
	• Is the radiator fin clogged?	• Clean the radiator fin.
	• Is the engine oil lever low?	• Refill the engine oil.
	• Is the engine running under too much load?	• Reduce the load.
5. The engine power is too weak.	• Is the air cleaner clogged?	• Inspect the air cleaner
	• Is the nozzle stained with carbon?	• Contact the dealer for repair
	• Is the compression force weak?	
	• Is the valve clearance adjusted properly?	
	• Is the injection timing bad?	
6. Coolant warning lamp is in during operation.	• Is the coolant level in the reservoir low?	• Refill the coolant
7. Engine oil warning lamp is on during operation.	• Is the engine oil level low?	• Refill the engine oil
	• Is the viscosity of the engine oil low?	• Replace the engine oil with the one with proper viscosity.
	• Is the pressure switch out of order?	• Replace the switch
	• Is the oil pump out of order?	• Contact dealer for repair
8. Thermostat lamp is not turned on.	• Is the fuse burnt our?	• Replace the fuse
9. Battery warning lamp is on during operation.	• Is the regulator (current limit) out of order?	• Contact dealer for repair
	• Is the fan belt slack or damaged?	• Adjust or replace the fan belt

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CLUTCH AND BRAKE

Situation	Inspection item	Solution
1. The clutch slips or cannot be disconnected	• Is the extent of free play of the clutch pedal proper?	• Adjust the free play of the pedal
2. The brake does not work or works on one side.	• Is the extent of free play of the brake pedal proper?	• Adjust the free play of the pedal
3. The brake pedal squeaks and does not return well	• Is the brake pedal return spring damaged?	• Replace the spring
	• Is each part well greased?	• Remove the rust and apply grease.

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HYDRAULIC SYSTEM

Situation	Inspection item	Solution
1. The implement cannot be lifted	• Is the hydraulic stop/slow return control dial is in all the way right?	• Put the hydraulic stop/slow return control dial turn to left.
	• Is the hydraulic stop/slow return valve put to “Close”?	• Put the hydraulic stop/slow return valve to “Open.”
	• Is the transmission fluid level low?	• Refill the transmission fluid.
	• Is the air taken in the intake pipe system?	• Tighten the filter case or connection parts. Replace the pipe or O-ring if damaged.
	• Is the oil filter clogged?	• Clean or replace it.
	• Is the hydraulic pump defective?	• Contact the dealer for repair.
	• Is the hydraulic pump out of order?	• Contact the dealer for repair.
	• Is the control valve dusty or is the O-ring damaged?	• Contact the dealer for repair.
2. The implement cannot be lowered.	• Is the cylinder damaged?	• Contact the dealer for repair.
	• Is the hydraulic stop/slow return valve put to “Close”?	• Put the hydraulic stop/slow return valve to “Open.”
	• Is the control valve dusty or stuck with foreign substance?	• Consult the dealer for repair.
	• Is the cylinder damaged?	• Consult the dealer for repair.
	• Is the position control lever on the shallowest position?	• Move the position control lever to the releasing direction.

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ELECTRICAL SYSTEM

Situation	Inspection item	Solution
1. The headlamp will not turn on.	• Is the bulb burnt out?	• Replace the bulb.
	• Is the fuse burnt out?	• Replace the fuse.
	• Is the cable separated from the socket?	• Inspect cable.
2. The direction indicator lamp will not operate.	• Is the bulb burnt out?	• Replace the bulb.
	• Is the fuse burnt out?	• Replace the fuse.
	• Is the flasher unit defective?	• Replace the flasher unit.
	• Is the contact in bad condition?	• Inspect and clean the grounding and terminals.
3. The lamps will not turn on.	• Is the bulb burnt out?	• Replace the bulb.
	• Is the fuse burnt out?	• Replace the fuse.
	• Is the contact of the cable in bad condition?	• Inspect the cable and secure the contact.
	• In the switch defective?	• Replace the switch.
	• Is the grounding in bad condition?	• Connect the grounding cable securely to the body.
	• Is the battery discharged?	• Charge the battery.
4. The horn does not sound.	• Is the fuse burnt out?	• Replace the fuse.
	• Is the horn switch contact in bad condition?	• Inspect the horn switch.

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9. SPECIFICATION

SPECIFICATIONS.....9-2

BRANSON 25 SERIES 트랙터-영문판-09.ind1 1 2016-06-22 오후 3:22:16

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SPECIFICATIONS

[CABIN]

MODEL			5025C	5825C	6225C
1. Drive System			4 Wheel Drive		
2. Dimensions	Overall Length	in. (mm)	138.2 (3,511)		
	Overall Width	in. (mm)	56.5 ~ 79.2 (1,434 ~ 2,012)		
	Overall Height	in. (mm)	89.2 ~ 95.2 (2,266 ~ 2,419)		
	Wheelbase	in. (mm)	70.9 (1,800)		
	Ground Clearance	in. (mm)	7.9 ~ 13.8 (201 ~ 351)		
	Weight	lbs (kg)	4,442 (2,015)		

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MODEL			5025C	5825C	6225C
3. Engine	Model		A2300N2	A2300T3	A2300T1
	Type(*)		Vertical, 4 Cycle, Water Cooled, Diesel, EPA Tier Certified		
	Combustion System		Swirl chamber		
	Aspiration		Naturally	Turbo Charged	
	Engine Output	HP (kw)	47 (35)	55 (40.5)	59(43.4)
	Engine RPM	rpm	2,600		
	No of Cylinder		4		
	Bore x Stroke	In. (mm)	3.46 x 3.7 (88 x 94)		
	Displacement	cu in (cc)	139.5 (2,286)		
	Type of air cleaner		Dry, Double Filter Elements		
	Fuel tank capacity	gal (L)	12 (45)		
4. Electronic	Alternator	Amps	70		
	Battery	Volt	12		
5. Steering			Hydrostatic		
6. Clutch			Dry, Single		
7. Brake			Wet Disc, Band Brake		

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MODEL			5025C	5825C	6225C
8. Transmission	Main Shifting		Fully Synchronized (4 speed)		
	Forward Reverse Method		Synchro-shuttle		
	Gear Shifting (Front x Rear)		F12 X R12		
	Travel Speed	Mph (km/h)	Forward : 1.14 ~ 20 (1.83 ~ 32.2) / Reserve : 1.09 ~ 19.1 (1.75 ~ 30.8)		
9. PTO	Type		Independent P.T.O. (6 Spline shaft)		
	Speed	rpm	540 / 790		
	PTO Power @ 2,600 rpm	HP(KW)	42 (31)	47.5 (35)	54 (39.7)
10. Hydraulic System	Type		Position control		
	3 Point Hitch		Telescopic lower link / Telescopic stabilizers		
	Category		Category I		
	Pump Flow @ 2,500 rpm	Steering Pump	5 GPM (7.2cc/rev)		
		Main Pump	11.1 GPM (16cc/rev)		

※ Specifications are subject to change without notice. Contact your local McCormick dealer for more information.

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[REAR ROPS]

MODEL			3125R	3625R	4125R	5025R	5825R	6225R
1. Drive System			4 Wheel Drive					
2. Dimensions	Overall Length	in. (mm)	138.2 (3,511)					
	Overall Width	in. (mm)	56.5 ~ 79.2 (1,434 ~ 2,012)					
	Overall Height	in. (mm)	93.4 ~ 98.4 (2,372 ~ 2,500)					
	Wheelbase	in. (mm)	70.9 (1,800)					
	Ground Clearance	in. (mm)	7.9 ~ 13.8 (201 ~ 351)					
	Weight	lbs (kg)	4,053 (1,838)	←	4,063 (1,843)	4,118 (1,868)	4,123 (1,870)	←

[MID ROPS]

MODEL			3125R	3625R	4125R	5025R	5825R	6225R
1. Drive System			4 Wheel Drive					
2. Dimensions	Overall Length	in. (mm)	138.2 (3,511)					
	Overall Width	in. (mm)	56.5 ~ 79.2 (1,434 ~ 2,012)					
	Overall Height	in. (mm)	83.7 ~ 89.7 (2,127 ~ 2,280)					
	Wheelbase	in. (mm)	70.9 (1,800)					
	Ground Clearance	in. (mm)	7.9 ~ 13.8 (201 ~ 351)					
	Weight	lbs (kg)	3,880 (1,760)	←	←	3,961 (1,797)	←	←

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MODEL			3125R	3625R	4125R	5025R	5825R	6225R
3. Engine	Model		A1700N3	A1700N2	A1700T	A2300N2	A2300T3	A2300T1
	Type(*)		Vertical, 4 Cycle, Water Cooled, Diesel, EPA Tier Certified					
	Combustion System		Swirl chamber					
	Aspiration		Naturally	←	Turbo	Naturally	Turbo Charged	
	Engine Output	HP (kw)	31 (23.1)	35 (26.1)	40 (29.8)	47 (35)	55 (40.5)	59 (43.4)
	Engine RPM	rpm	2,600					
	No of Cylinder		3			4		
	Bore x Stroke	In. (mm)	3.3 x 3.7 (84 x	3.46 x 3.7 (88 x 94)				
	Displacement	cu in (cc)	95.3 (1,562)	104.6 (1,714)		139.5 (2,286)		
	Type of air cleaner		Dry, Double Filter Elements					
	Fuel tank capacity	gal (L)	12 (45)					
4. Electronic	Alternator	Amps	12V - 45A					
	Battery	Volt	12					
5. Steering			Hydrostatic					
6. Clutch			Dry, Single					
7. Brake			Wet Dise					

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MODEL			3125R	3625R	4125R	5025R	5825R	6225R
8. Transmission	Main Shifting		Fully Synchronized (4 speed)					
	Forward Reverse Method		Synchro-shuttle					
	Gear Shifting (Front x Rear)		F12 X R12					
	Travel Speed	Mph (km/h)	Forward : 1.14 ~ 20 (1.83 ~ 32.2) / Reserve : 1.09 ~ 19.1 (1.75 ~ 30.8)					
9. PTO	Type		Independent P.T.O. (6 Spline shaft)					
	Speed	rpm	540 / 790					
	PTO Power @ 2,600 rpm	HP (KW)	26.5 (19.5)	29 (22)	35.5 (26.1)	42 (31)	47.5 (35)	54 (39.7)
10. Hydraulic System	Type		Position control					
	3 Point Hitch		Telescopic lower link / Telescopic stabilizers					
	Category		Category I					
	Pump Flow @ 2,500 rpm	Steering Pump	4.8 GPM (7 cc/rev)			5 GPM (7.2cc/rev)		
		Main Pump	8.9 GPM (13 cc/rev)			11.1 GPM (16cc/rev)		

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[HST]

MODEL			4125H	5025H / 5025CH	5825H / 5825CH	6225H / 6225CH
1. Drive System			4 Wheel Drive			
2. Dimensions	Overall Length	in. (mm)	138.2 (3,511)			
	Overall Width	in. (mm)	56.5 ~ 79.2 (1,434 ~ 2,012)			
	Overall Height	in. (mm)	89.2 ~ 98.4 (2,266 ~ 2,500)			
	Wheelbase	in. (mm)	70.9 (1,800)			
	Ground Clearance	in. (mm)	7.9 ~ 13.8 (201 ~ 351)			
	Weight	lbs (kg)	4,442 (2,015)			

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MODEL			4125H	5025H / 5025CH	5825H / 5825CH	6225H / 6225CH
3. Engine	Model		A1700N2	A2300N2	A2300T3	A2300T1
	Type(*)		Vertical, 4 Cycle, Water Cooled, Diesel, EPA Tier Certified			
	Combustion System		Swirl chamber			
	Aspiration		Naturally	Naturally	Turbo Charged	
	Engine Output	HP (kw)	35 (26.1)	47 (35)	55 (40.5)	59 (43.4)
	Engine RPM	rpm	2,600			
	No of Cylinder		4			
	Bore x Stroke	In. (mm)	3.46 x 3.7 (88 X 94)			
	Displacement	cu in (cc)	139.5 (2,286)			
	Type of air cleaner		Dry, Double Filter Elements			
	Fuel tank capacity	gal (L)	9.3 (35)			
4. Electronic	Alternator	Amps	70			
	Battery	Volt	12			
5. Steering			Hydrostatic			
6. Clutch			Dry, Single			
7. Brake			Wet Disc, Band Brake			

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Model			4125H	5025H / 5025CH	5825H / 5825CH	6225H / 6225CH
8. Transmis-sion	Main Shifting		HST			
	Forward Reverse Method		-			
	Gear Shifting (Front x Rear)		3 Range			
	Travel Speed	Mph (Kmh)	Forward : 1.14 ~ 20 (1.83 ~ 32.2) / Reverse : 1.09 ~ 19.1 (1.75 ~ 30.8)			
9. PTO	Type		Independent PTO (6 Spline shaft)			
	Speed	rpm	540 / 790			
	PTO Power @ 2,600 rpm	HP (KW)	29 (22)	42 (31)	47.5 (35)	51 (37.8)
10. Hydraulic System	Type		Position Control			
	3 Point Hitch		Telescopic lower link / Telescopic stabilizers			
	Category		Category I			
	Pump Flow @ 2,600 rpm	Steering Pump	5 GPM (7.2cc/rev)			
		Main Pump	11.1 GPM (16cc/rev)			

※ Specifications are subject to change without notice. Contact your local McCormick dealer for more information.

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