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Branson TRACTORS

Branson K series

Operator's Manual

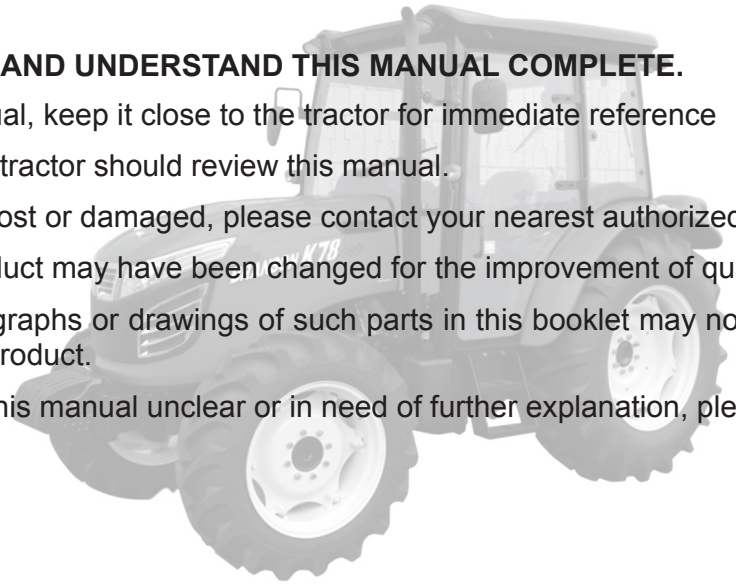


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PREFACE

THANK YOU FOR PURCHASING A BRANSON K SERIES TRACTOR.

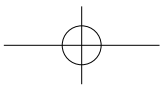


► BEFORE USE, READ AND UNDERSTAND THIS MANUAL COMPLETE.

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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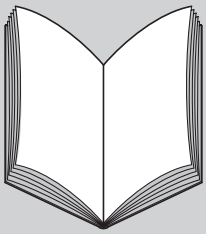




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SAFETY AND VEHICLE DAMAGE WARNING

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.

	Warning Lamp		DPF		Fuel Empty
	Direction Lamp(LH)		Auto PTO		T/M Warning Lamp
	Direction Lamp(RH)		PTO		Lift Up Lamp
F	Forward		Air Flow Sensor		Towing Power
N	Neutral		Parking Brake		Auto TBS
R	Reverse		Fuel Water Separator		Vertical Up
	Low Beam		Preheat		Turn Up
	High Beam		Engine Oil Pressure Lamp		Quick Turn
	Brake Pedal Connection		Battery Charging Lamp		4WD

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"USE AND DISPOSAL" POLICY CONCERNED WITH ENVIRONMENT PRESERVATION

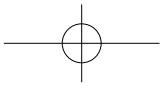
We try our best to preserve the environment, always concerned about our environmental impact at each step of planning, development, production, distribution, use and disposal of products, and for our overall operations through “environmentally friendly” management system. We comply with international 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.

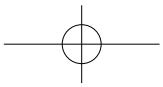
Here we introduce “Use and Disposal” policy concerned with environment preservation as follows.

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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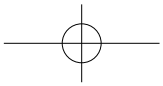
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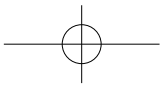
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1. GENERAL PRECAUTIONS

TO ENSURE SAFE OPERATION 1-2

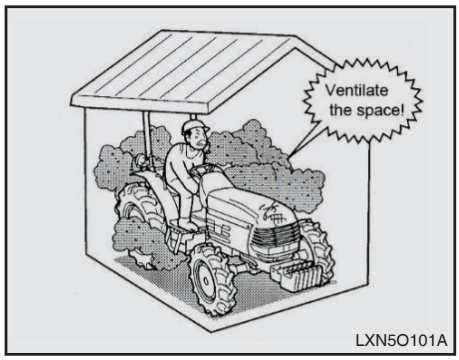


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TO ENSURE SAFE OPERATION

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



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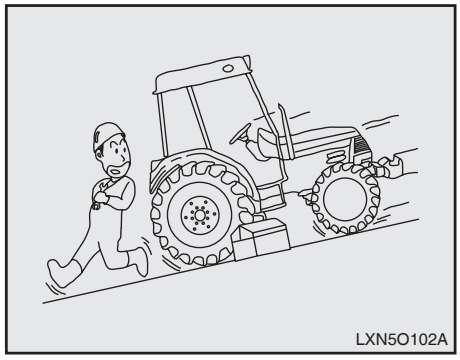
⚠ WARNING

Beware of exhaust gas;

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

[Otherwise]

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

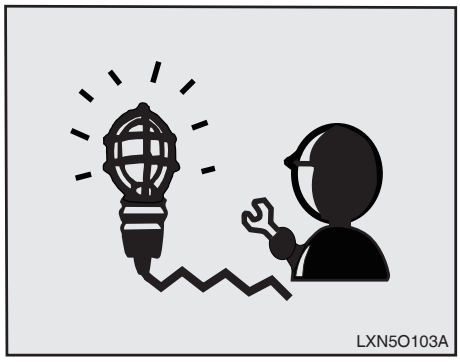

LXN5O102A

⚠ WARNING

- **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

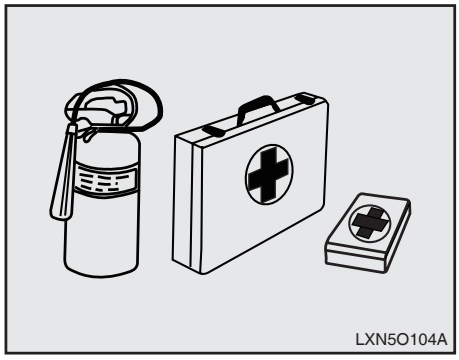
- **Make sure work area is properly lighted.**
- **Use safety work lights with protection covering.**

[Otherwise]

An unexpected accident may occur, possibly fire or explosion.

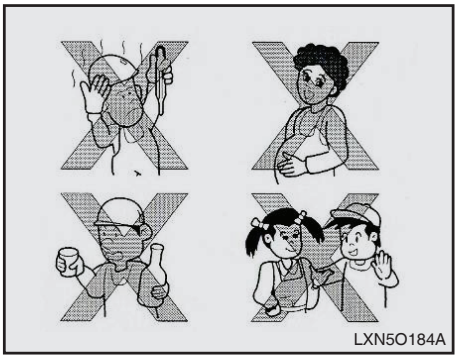
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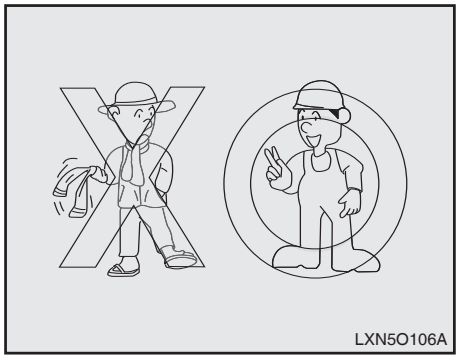
⚠ WARNING

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


LXN5O184A

⚠ WARNING

- **Do not operate tractor or any implement attached to tractor while under the influence of alcohol, medication, controlled substances or while fatigued.**


LXN5O106A

⚠ WARNING

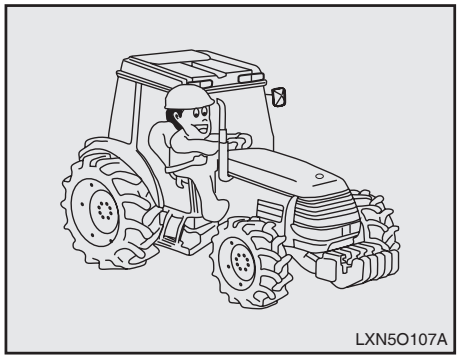
- **Never wear loose, torn or bulky clothing around tractor.**

[Otherwise]

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

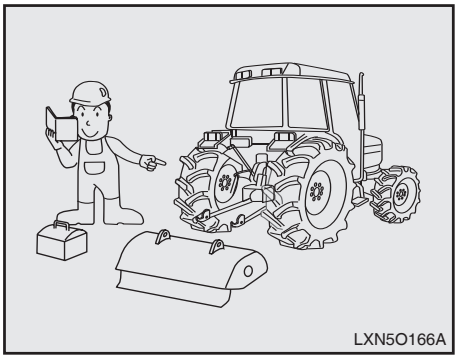
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LXN5O118A


LXN5O166A

⚠ WARNING

- **Fasten your seat belt at all times.**

[Otherwise]

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

⚠ WARNING

- **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.

⚠ WARNING

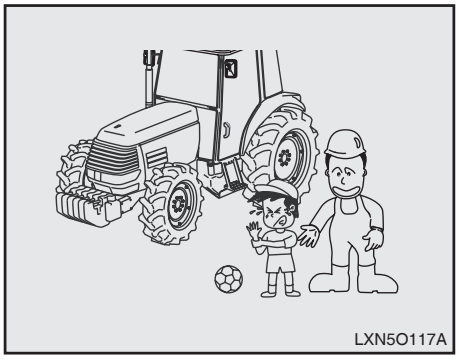
- **Be sure to use only implements which are recommended by manufacturer.**

[Otherwise]

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

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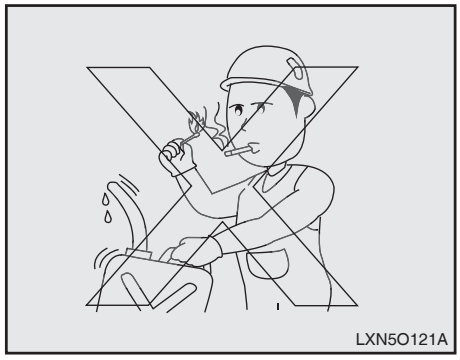

LXN5O117A

⚠ WARNING

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

[Otherwise]

There is a risk of injury.

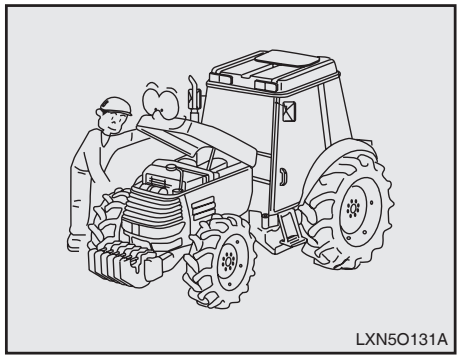

LXN5O121A

⚠ WARNING

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

[Otherwise]

Fire or explosion may occur.


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⚠ WARNING

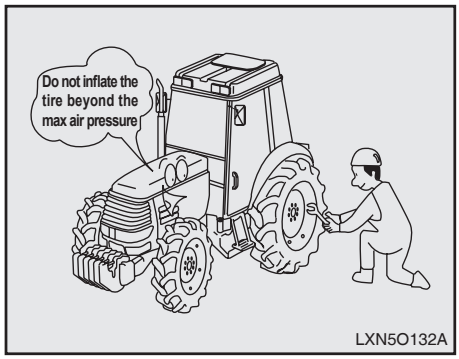
- **Inspect electrical wiring contact insulation to avoid shorting or spark.**

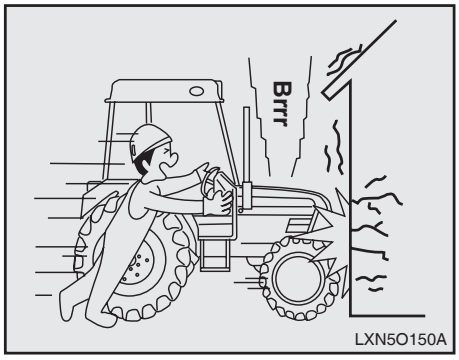
[Otherwise]

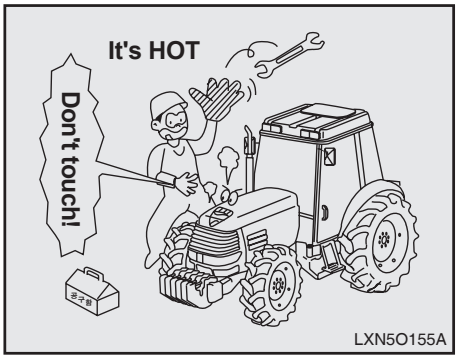
There is a risk of fire due to short circuit.

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⚠ WARNING

- **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.

⚠ WARNING

- **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.

⚠ CAUTION

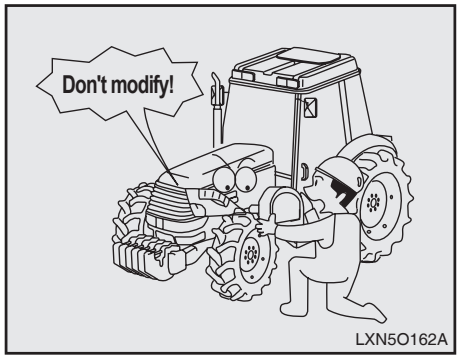
- **During operation and right after the engine is turned off, the muffler is very hot. Avoid touching it, as you may get burnt.**

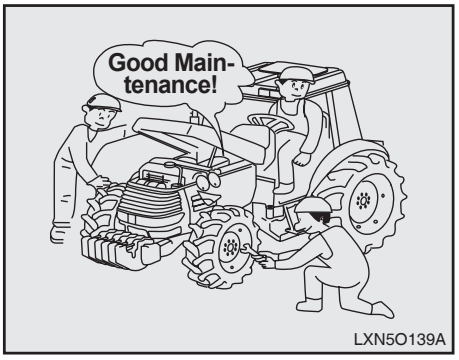
[Otherwise]

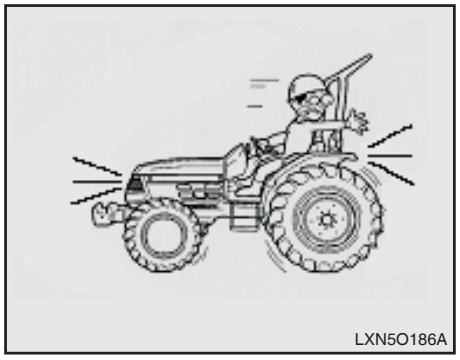
There is a risk of getting burnt.

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⚠ 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

- **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.

⚠ WARNING

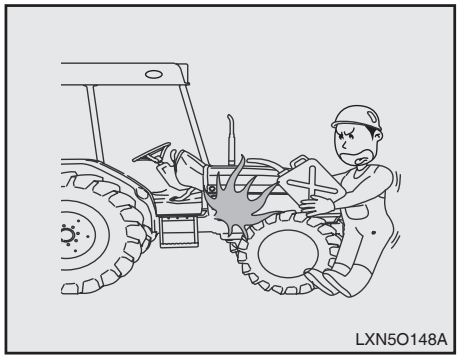
- **Check carefully that the various safety lamps such as direction indication lamp works well before driving the tractor**

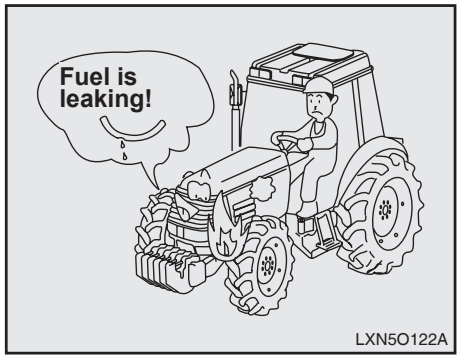
[Otherwise]

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

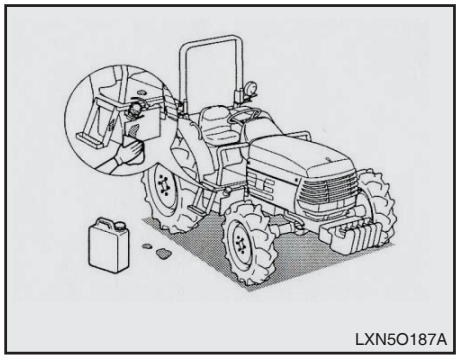
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LXN5O122A


LXN5O187A

⚠ DANGER

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

[Otherwise]

The fuel may ignite and fire may break out.

⚠ DANGER

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

[Otherwise]

There is a danger of fire.

⚠ DANGER

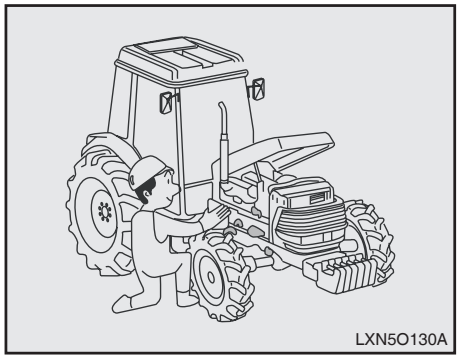
- **After filling the fuel tank, close the fuel filler cap completely and wipe off the excess fuel thoroughly.**

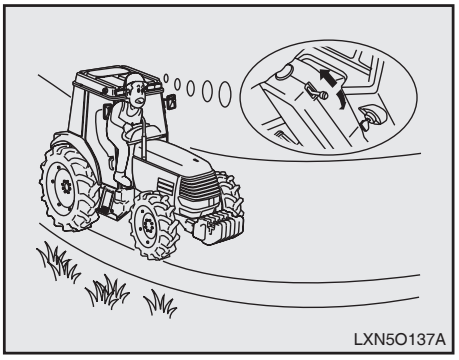
[Otherwise]

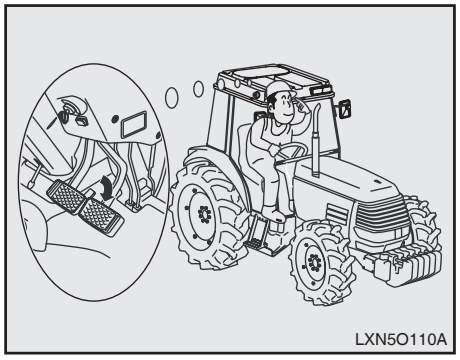
It may result in a fire accident or environmental pollution.

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LXN5O130A


LXN5O137A


LXN5O110A

⚠ 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.

⚠ WARNING

- **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.

⚠ WARNING

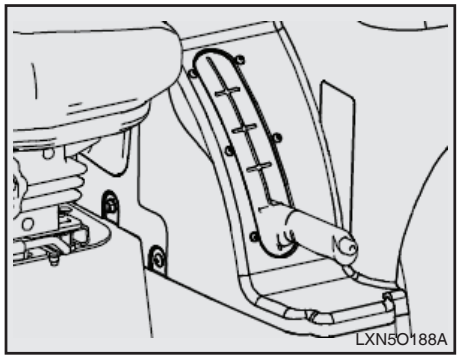
- **Check if the brakes work properly and evenly on both sides or if the steering wheel is loose.**

[Otherwise]

There is a risk of accident.

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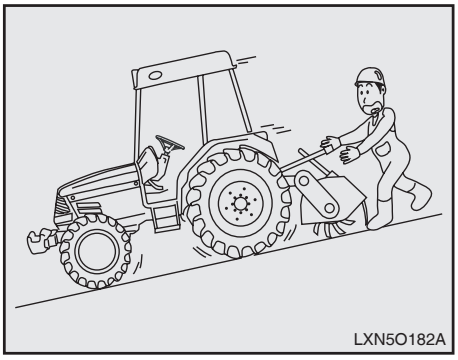


⚠ WARNING

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

[Otherwise]

The tractor may move and cause an accident or injury.

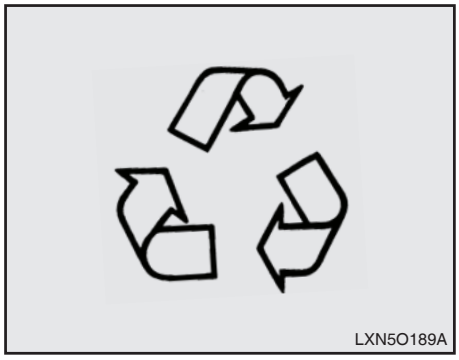


⚠ WARNING

- **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.

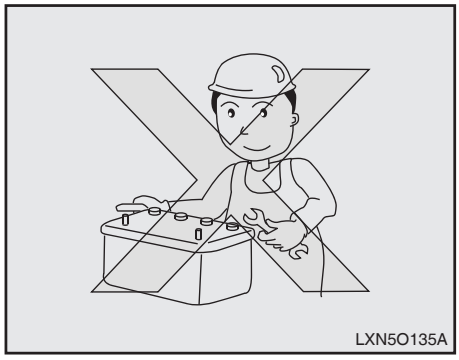


Treatment of hazardous materials

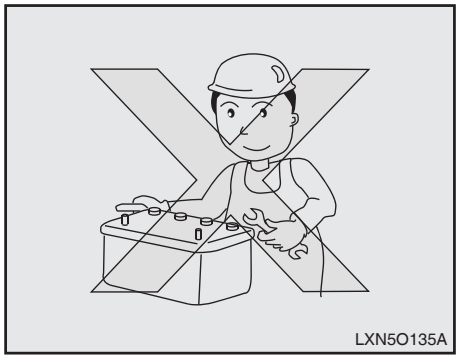
- Properly discard hazardous materials.
- Hazardous materials from tractor are the following: Coolant, brake oil, oil, filter elements, battery and so on.
- When draining fuel, oil or other liquids, use a container without holes. Do not dispose of chemicals on the ground or in rivers or waterways

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⚠ DANGER

- **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.

⚠ WARNING

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

[Otherwise]

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

⚠ CAUTION

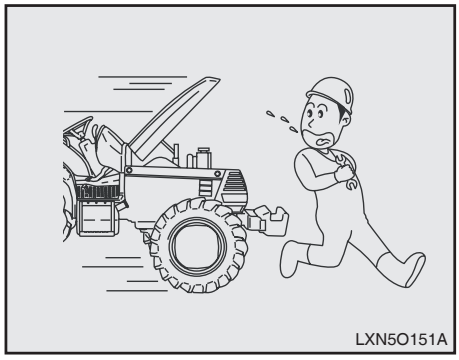
- **Connect the (+) terminal first when installing the battery, and disconnect the (-) terminal first when removing it.**

[Otherwise]

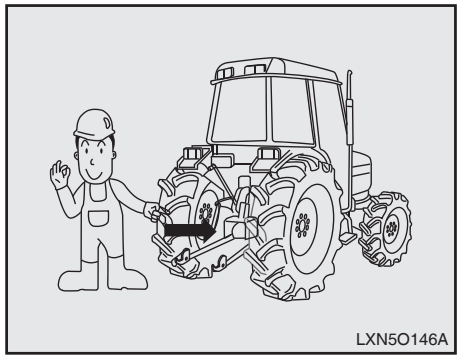
There is a risk of burn or fire due to short circuit.

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LXN5O151A


LXN5O149A


LXN5O146A

⚠ CAUTION

- **When checking, repairing, maintaining, or cleaning the tractor, make sure to stop the engine.**

[Otherwise]

There is a danger of injury.

⚠ CAUTION

- **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.

⚠ CAUTION

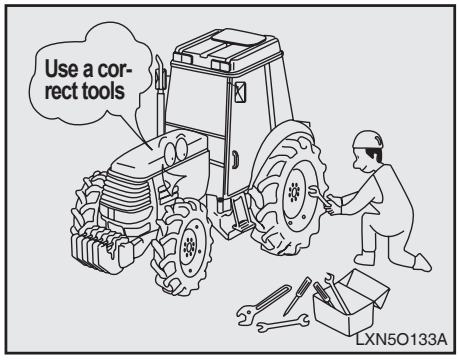
- **When the PTO shaft is not in use, apply grease to it and keep it covered.**

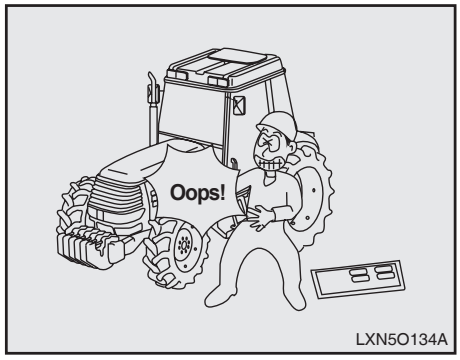
[Otherwise]

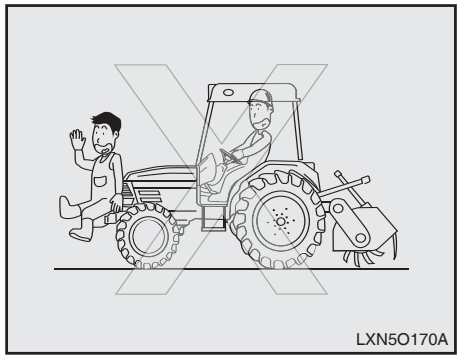
There is a risk that you may get entangled or get injured.

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⚠ CAUTION

- **Manage the maintenance tools properly, and use the correct tools for the type of maintenance. Also, always keep the tools for repairs and minor adjustment available on the tractor.**

[Otherwise]

There is a danger of accident due to poor maintenance.

⚠ CAUTION

- **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.

⚠ WARNING

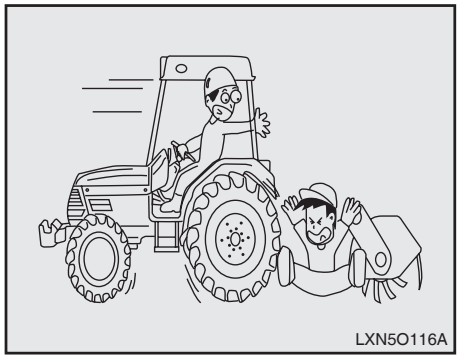
- **Do not use a person on anything else in place of the balance weight. Use only recommended balance weight for the work.**

[Otherwise]

There is a danger of accident or injury.

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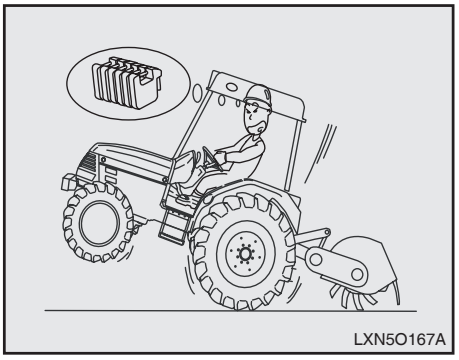


⚠ WARNING

- **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.

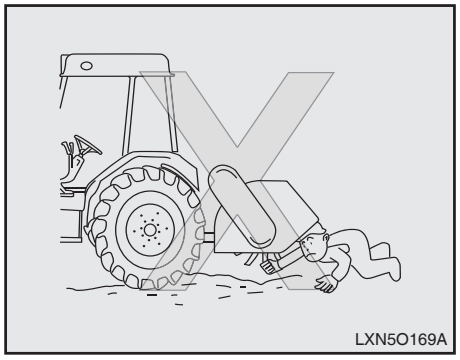


⚠ WARNING

- **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.



⚠ WARNING

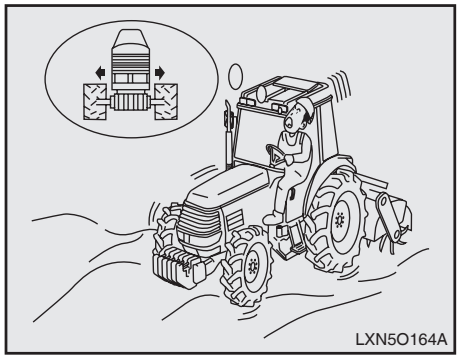
- **Do not get under implement or put your feet under it.**

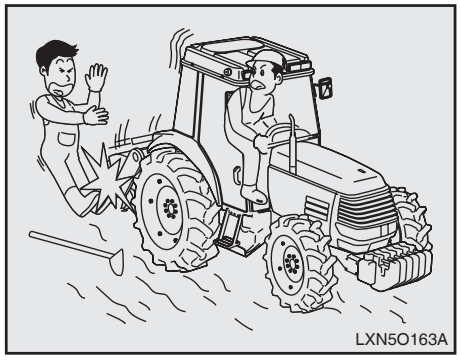
[Otherwise]

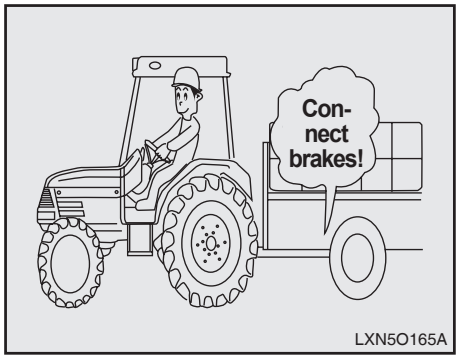
The implement unit may fall down and there is a risk of injury.

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LXN5O164A


LXN5O163A



LXN5O165A

⚠ WARNING

- **Increase the wheel tread (width between left and right tires) on a slope or when towing.**

[Otherwise]

There is a danger of turning over.

⚠ WARNING

- **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 danger of person injury or a collision of the implement.

⚠ WARNING

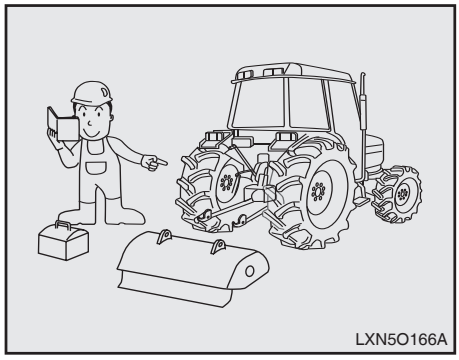
- **Link the brake of the trailer with the brake of the tractor. Do not shift gear when driving on a hill.**

[Otherwise]

There is a risk of accident or injury.

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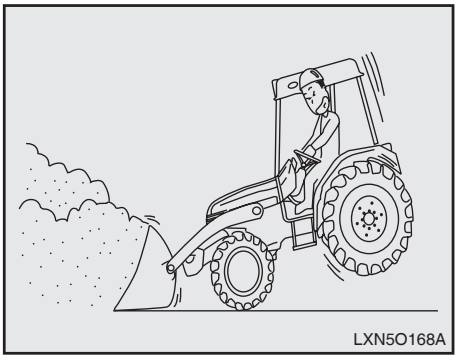


⚠ WARNING

- **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.

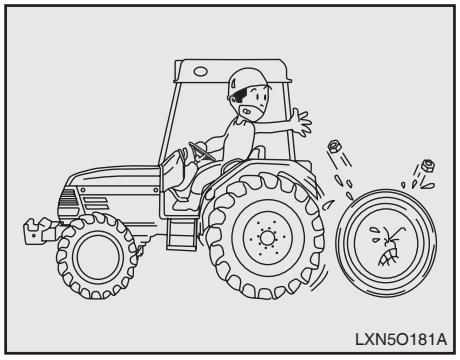


⚠ WARNING

- **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.



⚠ WARNING

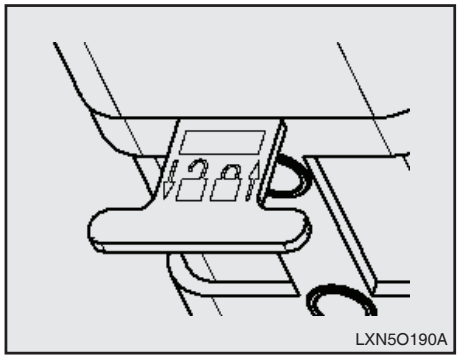
- **Do not use a low-revolution implement at high revolution. Be sure to the designated PTO requirements for the implements.**

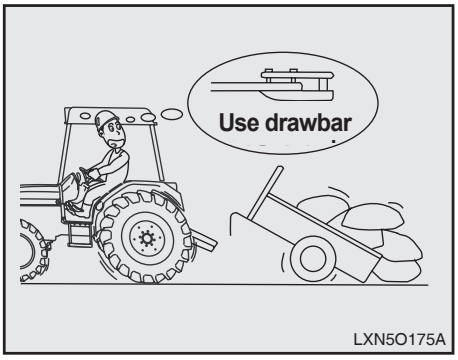
[Otherwise]

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

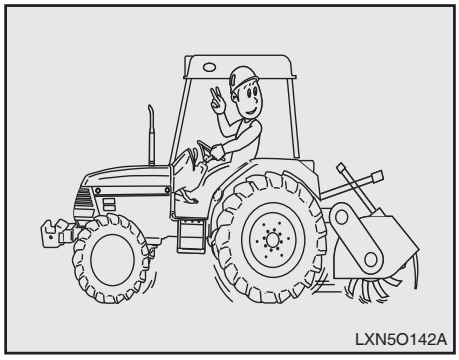
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LXN5O190A



LXN5O175A


LXN5O142A

⚠ 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.

⚠ WARNING

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

[Otherwise]

Tractor may turn over.

⚠ WARNING

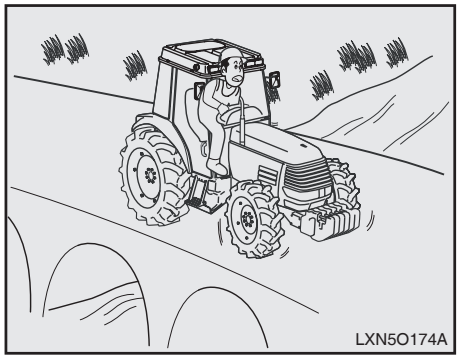
- **When working with the rotary, put the rotary slowly on soft or rocky ground. The tractor may be pushed in an unexpected direction by the rotating force of the rotary.**

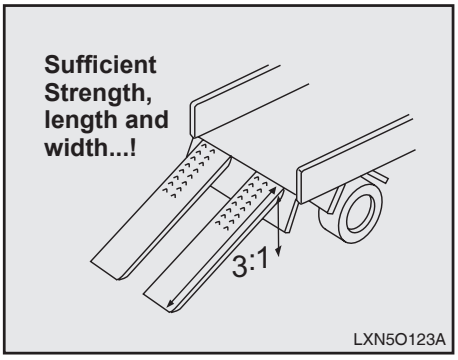
[Otherwise]

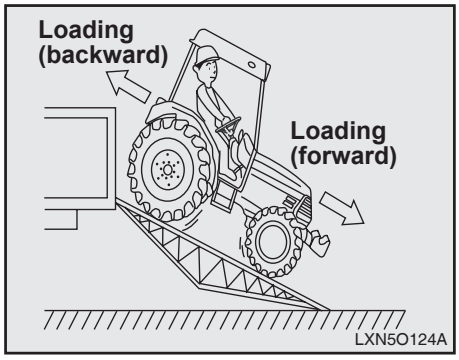
There is a risk of accident or injury.

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⚠ 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

- **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

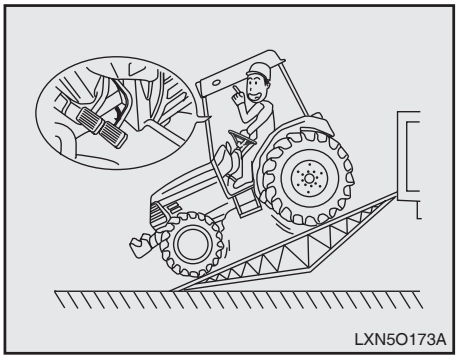
- **Move the tractor backward when loading it on the truck, and forward when unloading from the truck.**

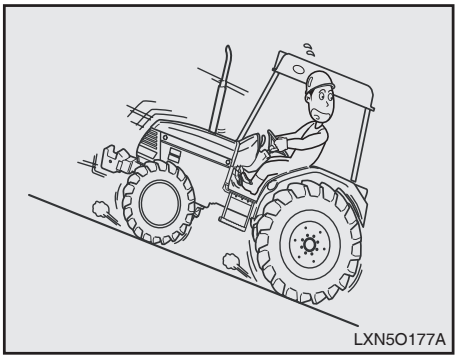
[Otherwise]

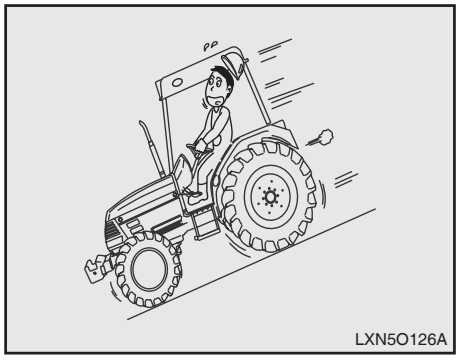
The tractor may roll backward or fall off causing accident or injury.

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LXN5O173A


LXN5O177A


LXN5O126A

⚠ 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

- **Pay particular attention to driving on the loading ramp. Do not operate the tractor as you do with normal use, such as stepping on the clutch, or putting the main gear or range gear or shuttle lever to "Neutral".**

[Otherwise]

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

⚠ WARNING

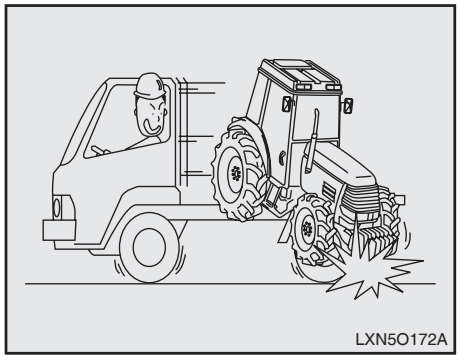
- **When driving on slopes or on the loading ramps, select the proper gear and then do not shift the gear.**

[Otherwise]

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

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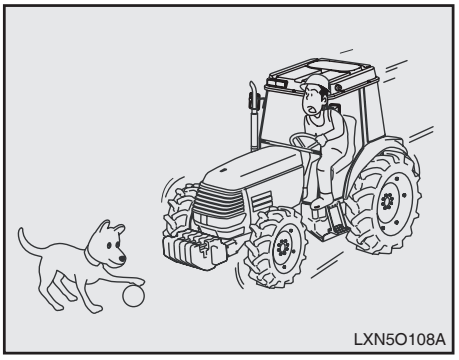


⚠ WARNING

- **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.

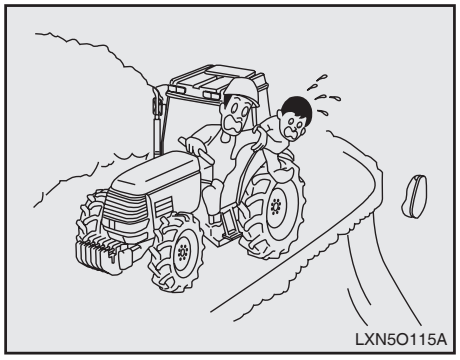


⚠ WARNING

- **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.



⚠ WARNING

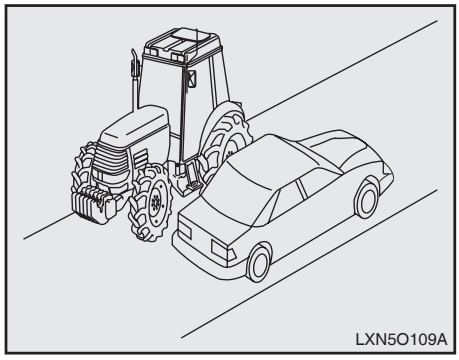
- **Do not allow passengers to ride on any part of the tractor at any time.**
- **The operator must remain in the seat at all time(Especially, children).**

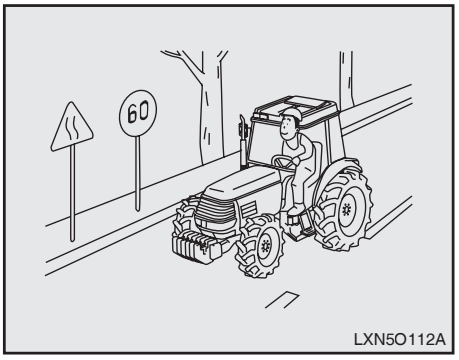
[Otherwise]

An un expected accident may occur.

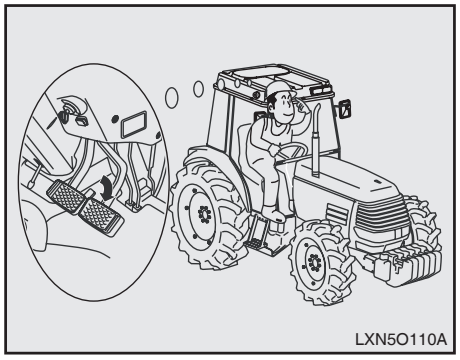
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LXN5O109A



LXN5O112A


LXN5O110A

⚠ WARNING

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

[Otherwise]

There is a risk of falling over.

⚠ WARNING

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

[Otherwise]

There is a danger of accident or injury.

⚠ WARNING

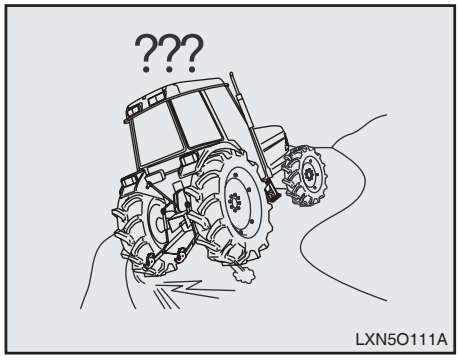
- **Make sure to connect the brake pedals when driving on a road.**

[Otherwise]

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

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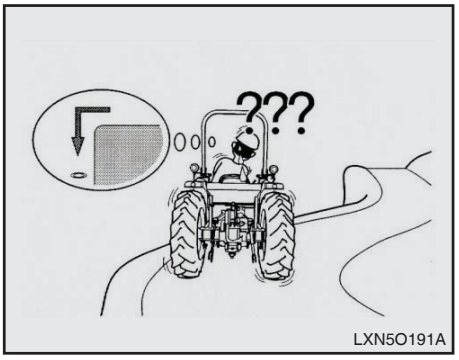


⚠ WARNING

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

[Otherwise]

There is a risk of overturning.

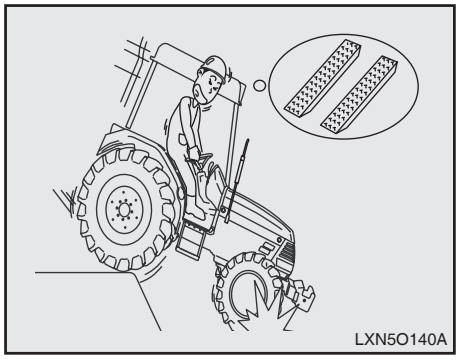


⚠ WARNING

- **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.



⚠ WARNING

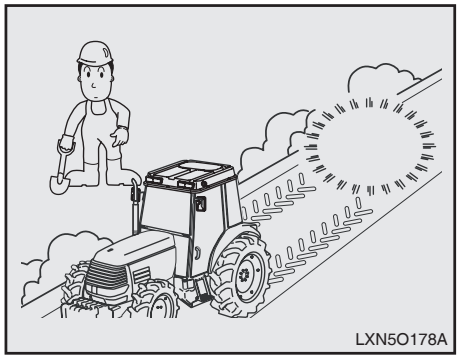
- **Be sure to use the loading ramps when crossing a ditch or dike, or when passing through soft land. The loading ramps must be suitable for the tractor in width, length and strength.**

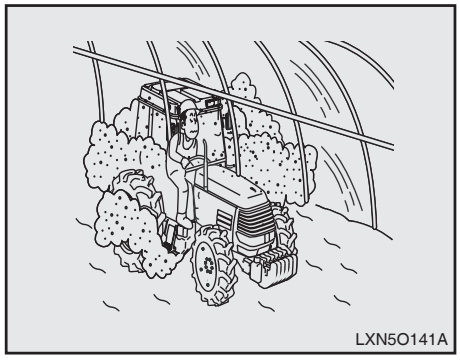
[Otherwise]

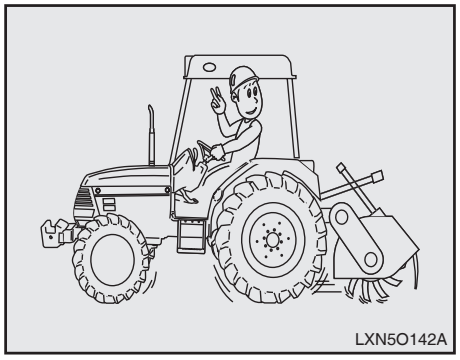
There is a risk of accident that the tractor may slip or turn over.

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LXN5O178A


LXN5O141A


LXN5O142A

⚠ WARNING

- **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.

⚠ WARNING

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

[Otherwise]

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

⚠ WARNING

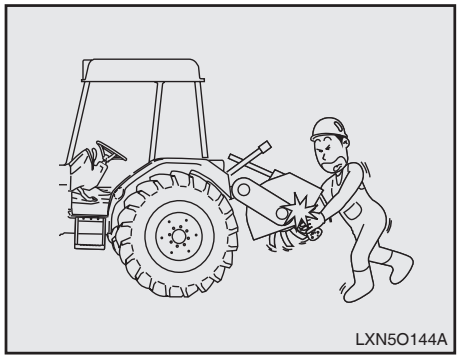
- **Pay attention and keep hands on the steering wheel while driving.**

[Otherwise]

There is a risk of accident to injury.

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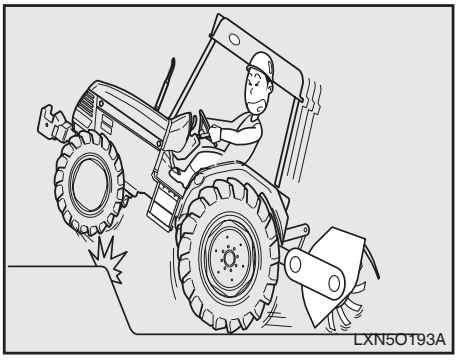


⚠ WARNING

- **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.

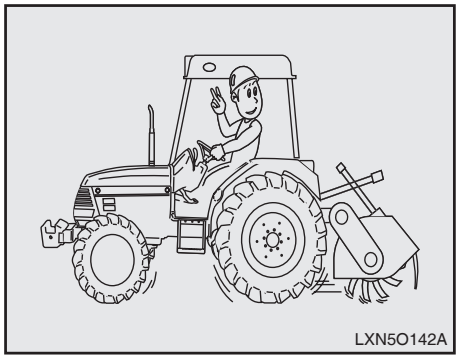


⚠ WARNING

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

[Otherwise]

There is a danger of accident or injury.



⚠ WARNING

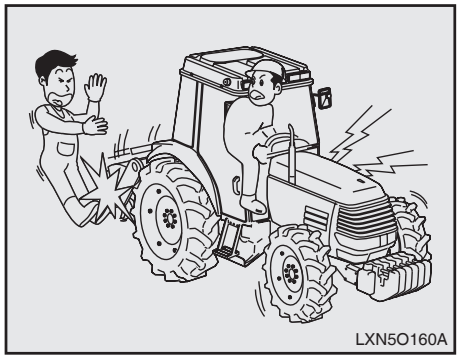
- **When entering or leaving the farming field, or moving across a dike or a raised ground, use the loading ramp and lower the implement as much as possible and so that it does not touch the ground.**

[Otherwise]

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

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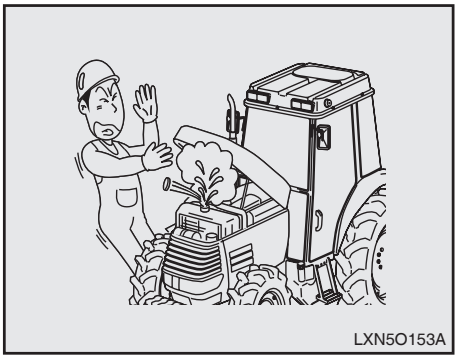

LXN5O160A

⚠ WARNING

- **When starting the engine, confirm that the implement is down on ground.**

[Otherwise]

The implement may come down suddenly and cause an injury.

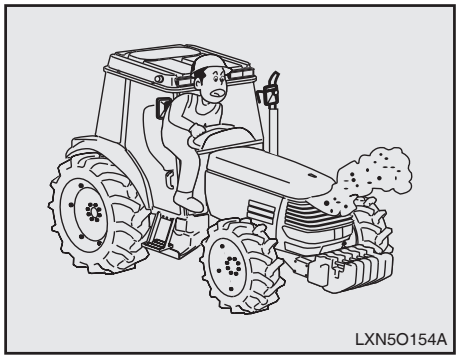

LXN5O153A

⚠ WARNING

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

[Otherwise]

Hot water may splash, causing burns or damage.


LXN5O154A

⚠ WARNING

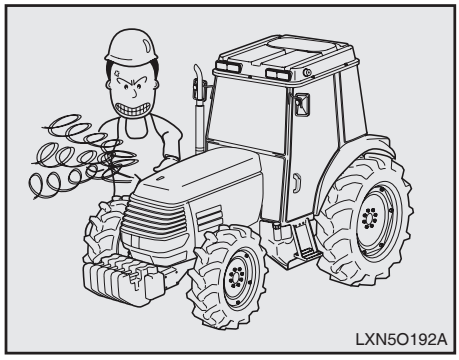
- **Every day before operating the tractor, check if the electrical wiring is contact with other parts, or if the insulation is peeling off, or the contact points are loose.**

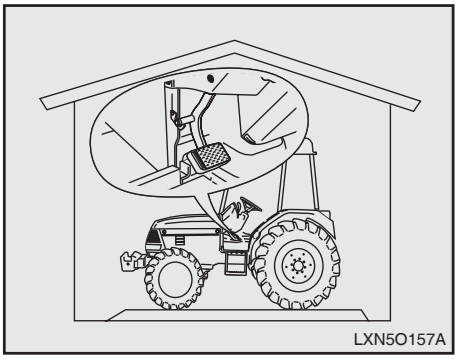
[Otherwise]

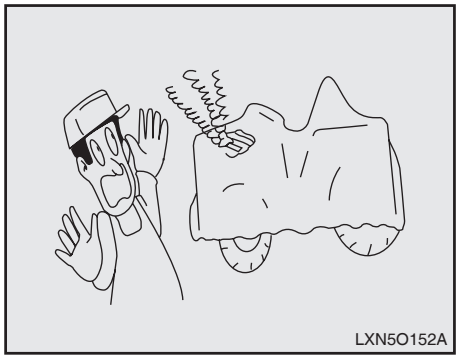
There is a danger of fire due to short circuit.

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LXN5O192A


LXN5O157A


LXN5O152A

⚠ 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

- **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

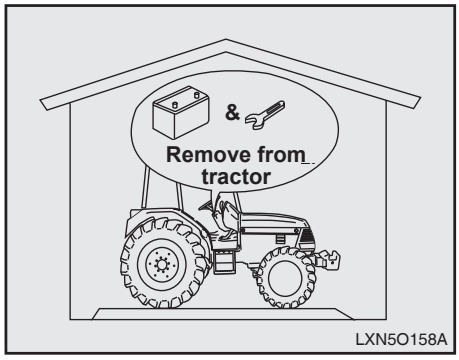
- **Put tractor cover on only after parts such as the engine and muffler cooled down.**

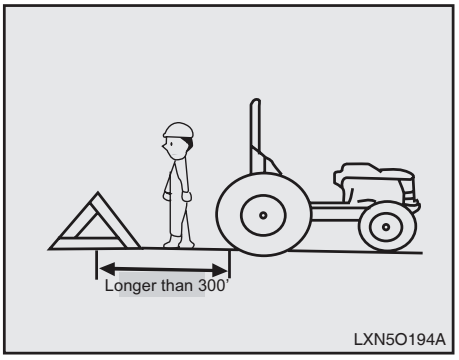
[Otherwise]

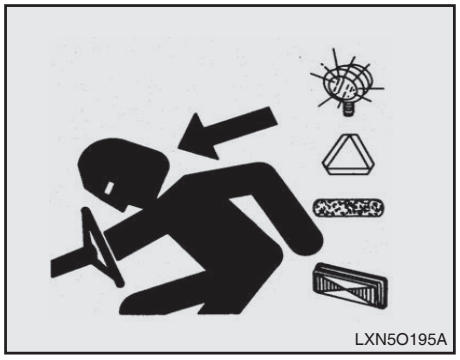
There is a risk of fire.

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⚠ WARNING

- **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.

⚠ WARNING

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

[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)**

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 preapproval 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.

Use agricultural chemicals in a safe manner.

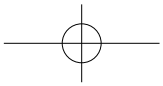
1. Agricultural chemicals must be sprayed properly.
2. Spraying of agricultural chemicals must be noticed in advanced and damage to surroundings.
3. Do wear the protective clothing(mask, glove) for agricultural chemicals before spray work.
4. Clean the equipment and tractor just after spraying work.

[Otherwise]

You may be exposed to agricultural chemicals by wind.

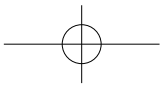
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2. ABOUT WARRANTY

WARRANTY.....2-2
TROUBLE SHOOTING.....2-2



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WARRANTY

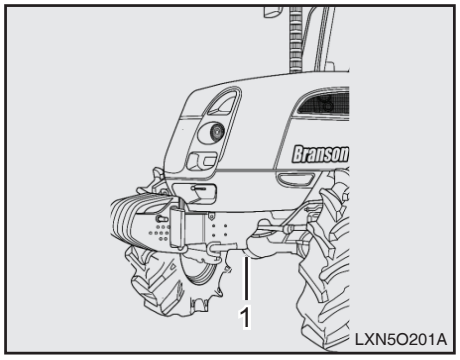
You will need the “Warranty paper work” when your tractor requires warranty service. Read it and keep in a safe place.

TROUBLE SHOOTING

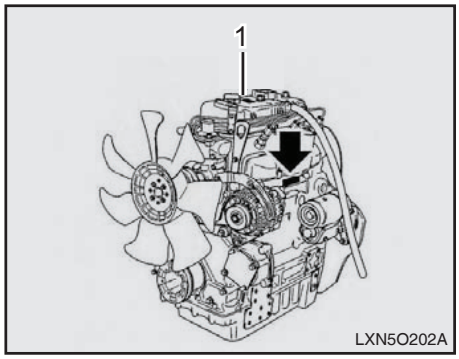
In case of mechanical trouble, refer to “Trouble shooting” on end of this manual. If the problem cannot be corrected, please contact your nearest authorized dealer.

<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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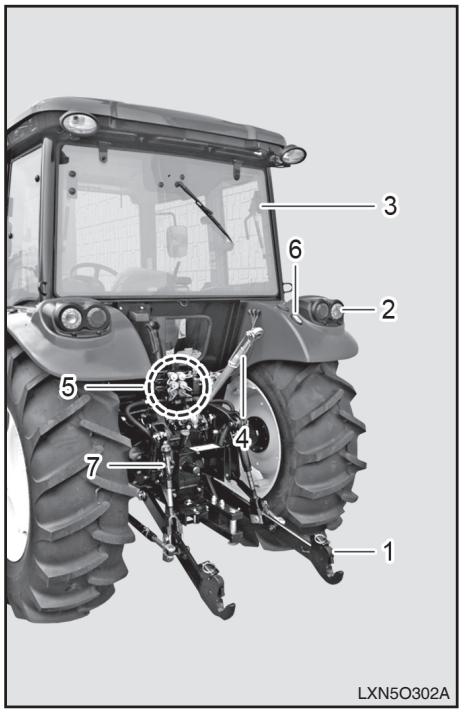
EXTERIOR VIEW



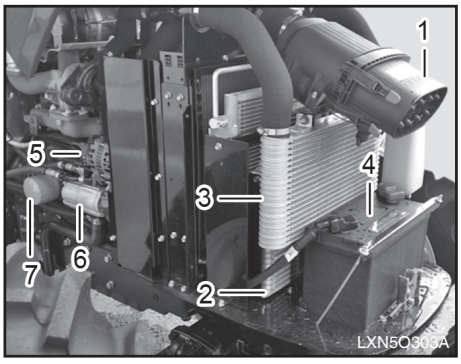
(1) Work Lamp
(2) Roof
(3) Side Mirror
(4) Hood
(5) Rear Tire
(6) Front Tire
(7) Step

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(1) Lower Link
(2) Rear Combination Lamp
(3) Rear Window
(4) Center Link
(5) Rear Remote Valve
(6) 3pt Control Switch
(7) Lift Link



(1) Air Cleaner
(2) Oil Cooler
(3) Inter Cooler (Except Tier 3)
(4) Battery
(5) Alternator
(6) Hydraulic Pump
(7) Engine Oil Filter

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MEMO

Branson TRACTORS Branson Machinery LLC

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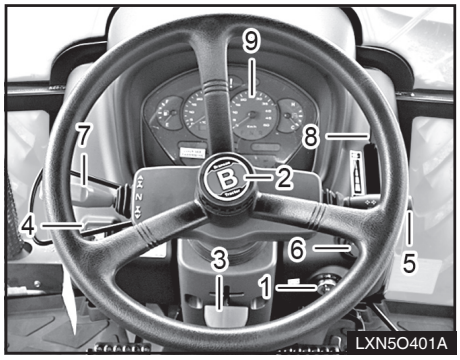
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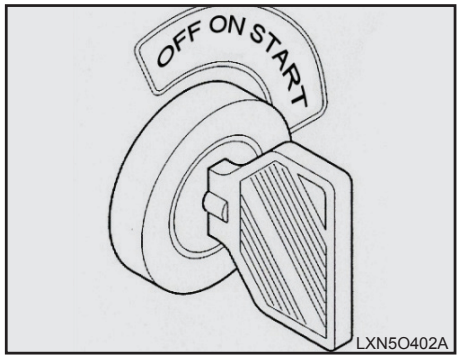
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SWITCHES AND LEVERS



(1) Main Key Switch
(2) Telescopic Adjust Cap
(3) Steering Column Tilt Lever
(4) Emergency Lamp Switch
(5) Combination Lamp Switch
(6) 4wd Shift Switch
(7) F/R Shuttle Lever
(8) Hand Throttle
(9) Dash Meter

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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TELESCOPIC ADJUST CAP



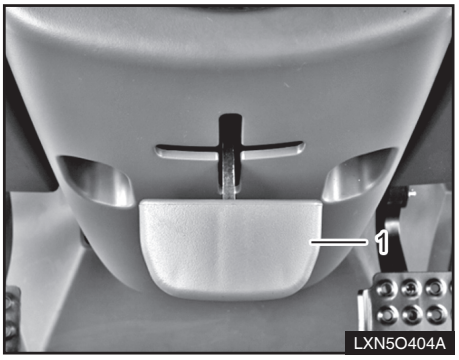
(1) Telescopic Adjust Cap

Turn telescopic adjust cap CCW, then fix handle at a desirable position and turn telescopic adjust cap CW for adjustment.

⚠ CAUTION

- **Must not be adjusted while driving.**

STEERING COLUMN TILT LEVER



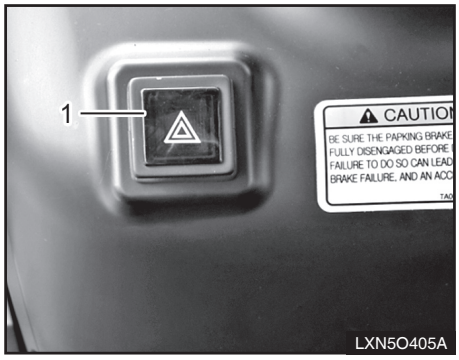
(1) Steering Column Tilt Lever

Confirm that the steering wheel is firmly fixed.

⚠ CAUTION

- **Must not be adjusted while driving.**

EMERGENCY LAMP SWITCH



(1) Emergency Lamp Switch

Used to prevent accident in an emergency 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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COMBINATION LAMP SWITCH



(1) Combination Lamp Switch

Tail lamp and dash meter will be lit when light switch is turned CCW once. When turned once again, high beam or lower beam will be lit. For direction light, bring the lever forward to light for right and backward to light for left.

To use horn, press on side of light switch.

4WD SHIFT SWITCH



2WD: Rear wheel drive high range – This is for driving on dry hard surfaces.

4WD AUTO: 4WD Auto range – This is automatically disengaged when either brake pedal is pressed or if speed exceeds 9.3mph(15km/h)

4WD: Four-wheel drive – This range provides full time four –wheel drive

F/R SHUTTLE LEVER



(1) F/R Shuttle Lever

It is used for shifting between “forward” and “reverse” drive.

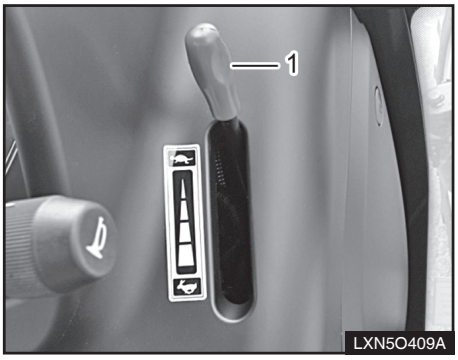
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HAND THROTTLE

⚠ 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.**



(1) Hand Throttle Lever

: Faster Engine RPM

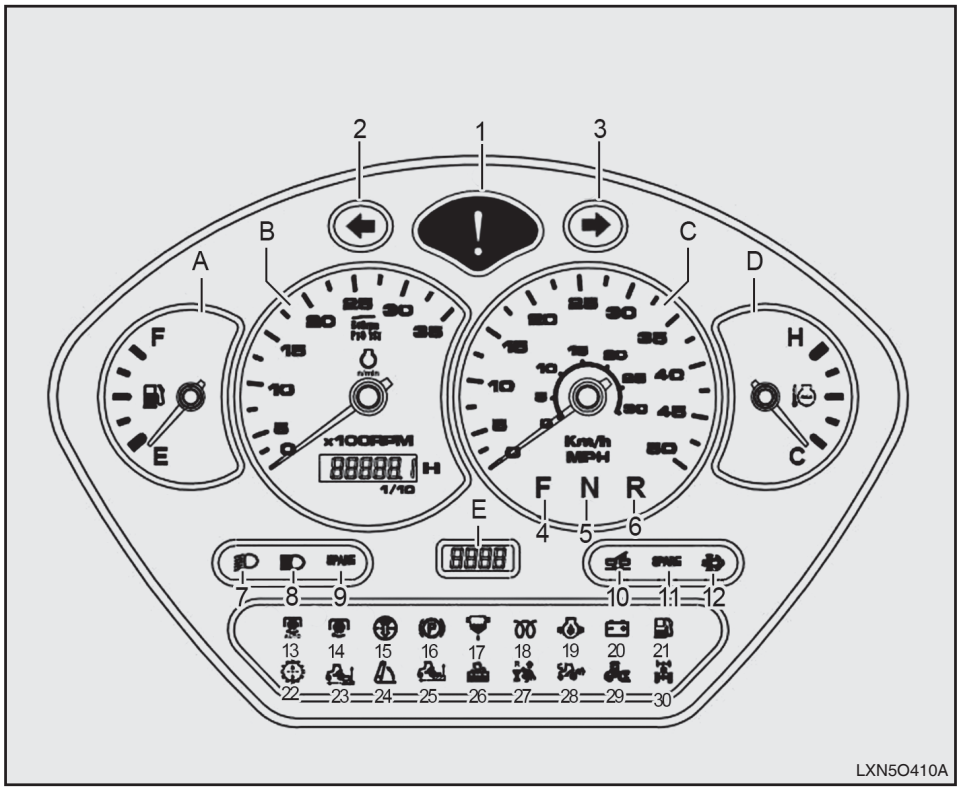
: Slower EnginE RPM

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

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DASH METER ASSY



(A) Fuel Gauge
(B) RPM Gauge
(C) Speed Meter
(D) Coolant Temp Gauge
(E) Error Code Display

(1) Warning Lamp
(2) Direction Lamp(LH)
(3) Direction Lamp(RH)
(4) Forward
(5) Neutral
(6) Reverse
(7) Low Beam
(8) High Beam
(9) N/A
(10) Brake Pedal Connection
(11) N/A
(12) DPF
(13) Auto PTO
(14) PTO
(15) Air Flow Sensor
(16) Parking Brake
(17) Fuel Water Separator
(18) Preheat
(19) Engine Oil Pressure Lamp
(20) Battery Charging Lamp
(21) Fuel Empty
(22) T/M Warning
(23) N/A
(24) Lift Up Lamp
(25) Towing Power
(26) Auto TBS
(27) Vertical Up
(28) Turn Up
(29) Quick Turn
(30) 4WD

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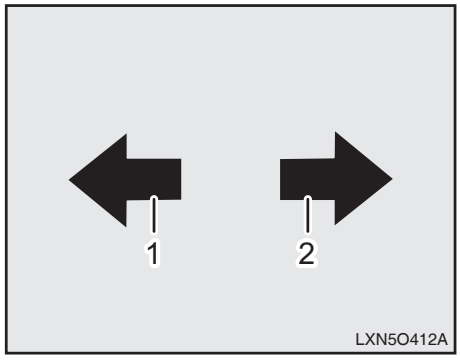
WARNING LAMP



Center warning indicator lamp will light up when trouble occurs with tractor.

- Error code will be displayed at same time.

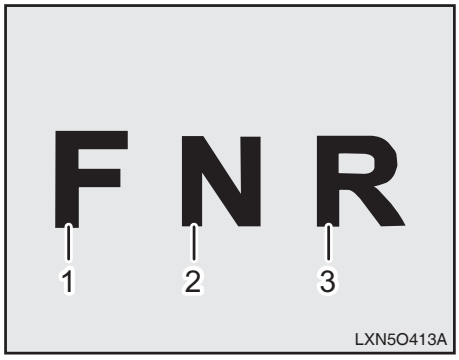
DIRECTION INDICATOR LAMP



(1) Left Turn Signal Lamp
(2) Right Turn Signal Lamp

The indicator lamp will light up when direction lever is pulled / pushed to each direction.

FORWARD/NEUTRAL/REVERSE INDICATOR



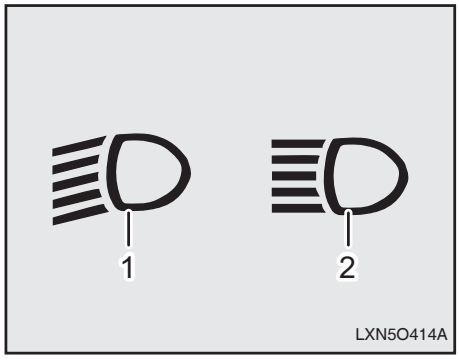
(1) Forward Driving Indicator
(2) Neutral Indicator
(3) Reverse Driving Indicator

Forward / Neutral / Reverse lamp will light up when shuttle lever is positioned in each: forward / neutral /reverse

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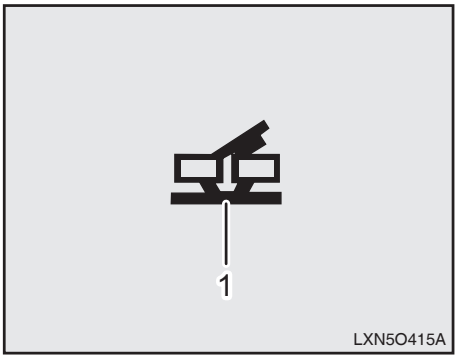
LOW BEAM/HIGH BEAM LAMP



(1) Low Beam Lamp
(2) High Beam Lamp

With the main switch in the “ON” position, turn the light switch one click to the right for low-beam and pull it up for high-beam.

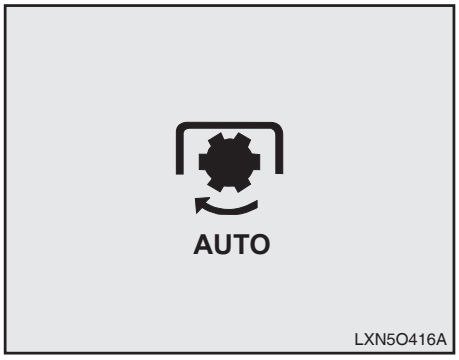
BRAKE PEDAL CONNECTION



(1) Brake Pedal Connection

Brake pedals connection lamp will light up when left and right fixed connection plate of brake is released.

AUTO PTO LAMP



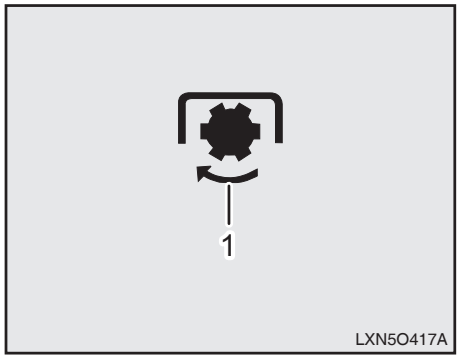
(1) Auto PTO Lamp

AUTO PTO indicator lamp will light up when PTO auto switch on control panel is turned on.

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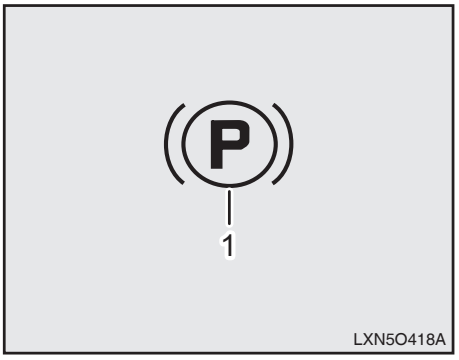
PTO LAMP



(1) PTO Lamp

PTO indicator lamp will light up when PTO ON/OFF switch is turned on.

PARKING BRAKE LAMP



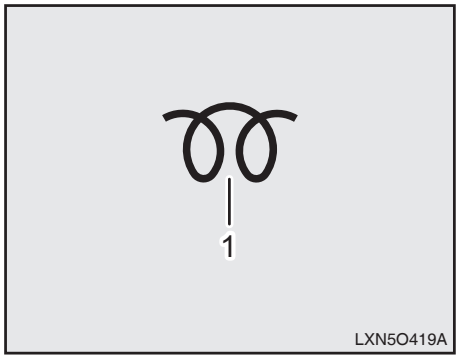
(1) Parking Brake Lamp

Lamp will light up when parking brake is pulled up.

At this stage, drive is not possible even when gear is changed with shuttle lever.

Release parking brake and change shuttle lever.

PRE-HEAT LAMP



(1) PRE-HEAT Lamp

Lamp will light on/off depending on temperature of engine coolant when main key switch is turned on.

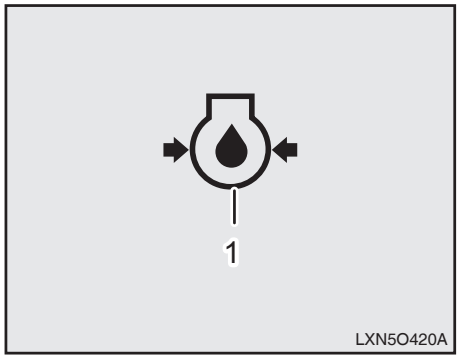
Lamp will be turned off when heater coil is heated. Start engine after this lamp is turned off.

It is difficult to start engine in winter when starting engine before warm up lamp is turned off. It also causes early discharge of battery.

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ENGINE OIL PRESSURE LAMP

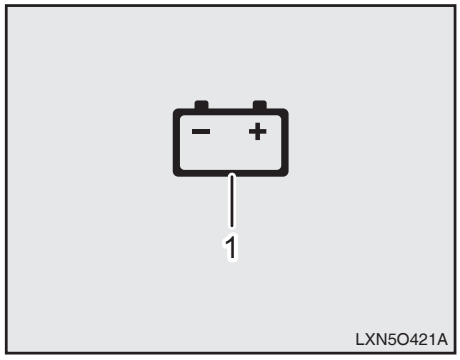


(1) Engine Oil Pressure Lamp

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.

BATTERY CHARGING LAMP

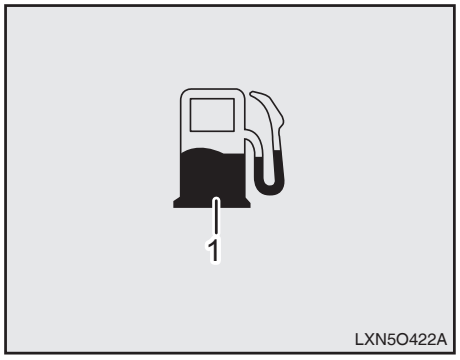


(1) Battery Charge Lamp

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)

FUEL EMPTY LAMP



(1) Fuel Empty Lamp

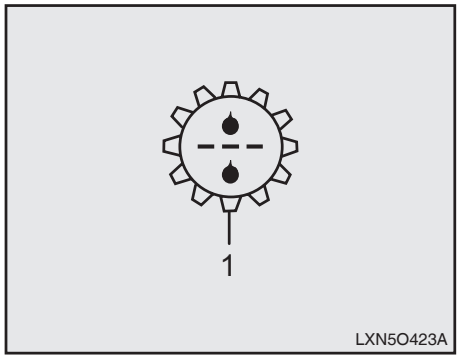
It will light up when there is little fuel in fuel tank.

Refuel immediately as empty fuel tank may cause inhalation of air.

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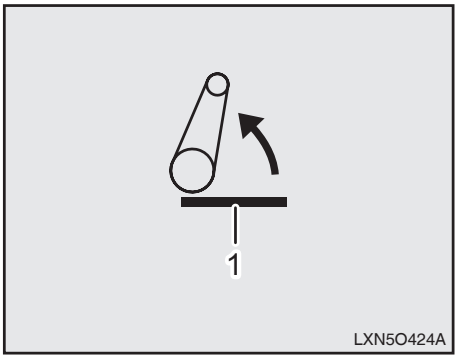
TRANSMISSION WARNING LAMP



(1) Transmission Warning Lamp

Transmission warning lamp will light up when trouble occurs with shuttle or PTO or four-wheel driving part of transmission part.

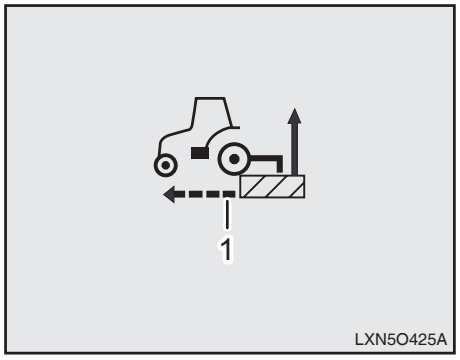
LIFT UP LAMP



(1) Lift Up Lamp

Lift up lamp will light up when lift arm is lifted up by onetouch moving up, or reverse moving up or turning increase to maximum position.

TOWING POWER LAMP



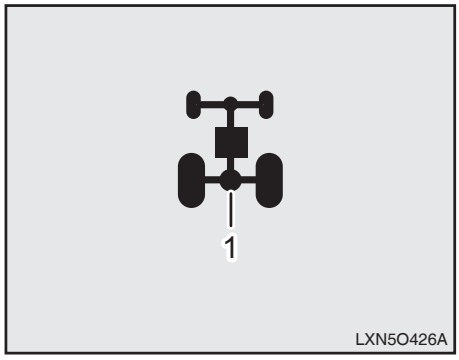
(1) Towing Power Lamp

Towing power lamp will light up when towing power setup dial is set at desired level.

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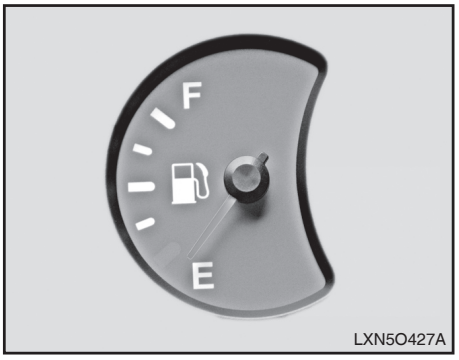
MFWD LAMP



(1) Mfwd lamp

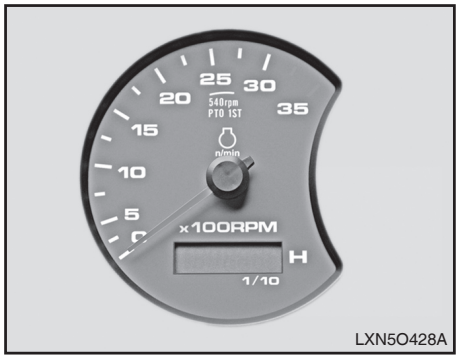
MFWD lamp will light up when MFWD lever is put at “ON”.

FUEL GAUGE



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

RPM GAUGE/ENGINE USING HOUR METER

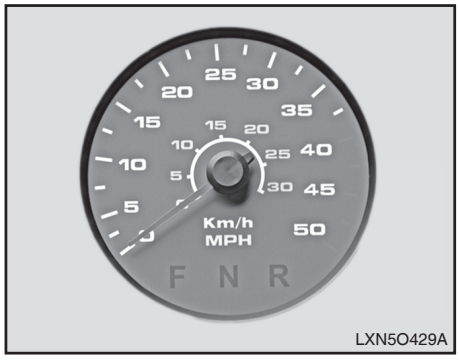


The needle indicates the number of engine RPM It indicates the tractor’ s running hours. By multiplying the digit in the far right position by 6, you will get the time in minute.

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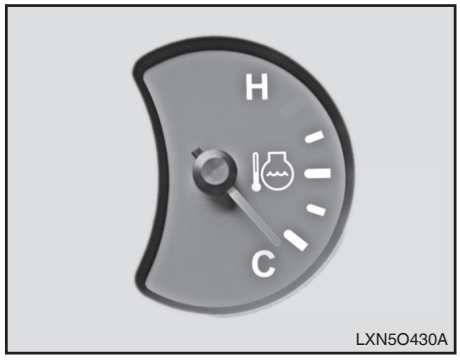
SPEEDOMETER



LXN5O429A

The needle indicates speed of tractor.

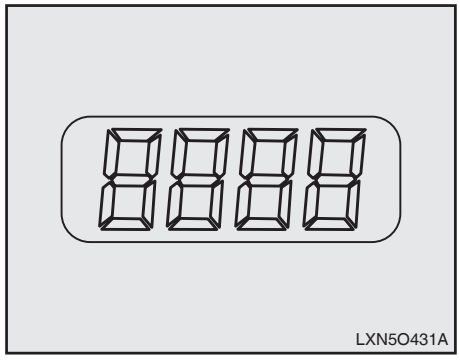
WATER TEMP GAUGE



LXN5O430A

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.

ERROR CODE DISPLAY MONITOR


LXN5O431A

The error code display monitor indicates the relevant error code when the tractor is malfunctioned as below.

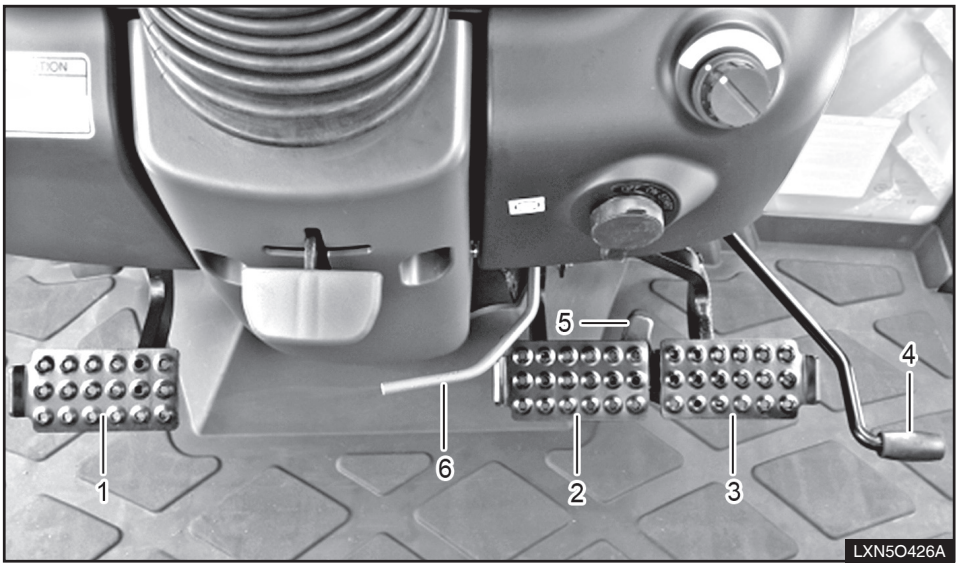
#	ERROR CODE	DESCROPTION
1	1401	Trouble with 4wd solenoid circuit
2	1403	Trouble with forward solenoid valve
3	1404	Trouble with reverse solenoid valve

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PEDALS

#	ERROR CODE	DESCROPTION
4	2301	Trouble with shuttle lever switch
5	2302	F/r shuttle shift with parking brake lever pulled
6	3101	Trouble with controller power
7	3102	Trouble with battery power
8	3202	Trouble with 3p control lever signal
9	3203	Signal error from lift sensor
10	3204	Signal error from towing sensor
11	3301	Trouble with fender control switch (up)
12	3302	Trouble with fender control switch (down)
13	3401	Trouble with 3p hitch raising power
14	3402	Trouble with 3p hitch lowering power
15	3403	Trouble with 3p lift solenoid
16	5101	Can communication error

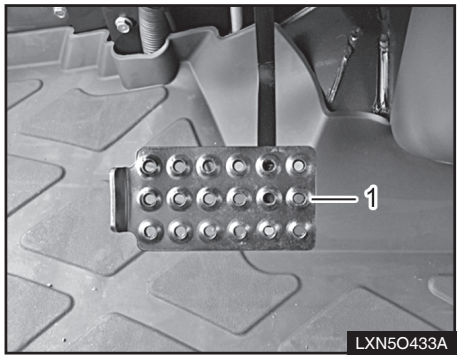


(1) Clutch Pedal
(2) Brake Pedal (Left)
(3) Brake Pedal (Right)
(4) Accelerator Pedal
(5) Brake Pedal Coupler
(6) Parking Brake

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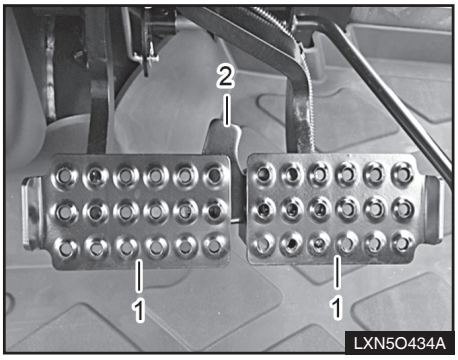
CLUTCH PEDAL



(1) Clutch pedal

It is used to transmit the engine power.

BRAKE PEDALS AND COUPLER



(1) Brake Pedal *(2) 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.

⚠ WARNING

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

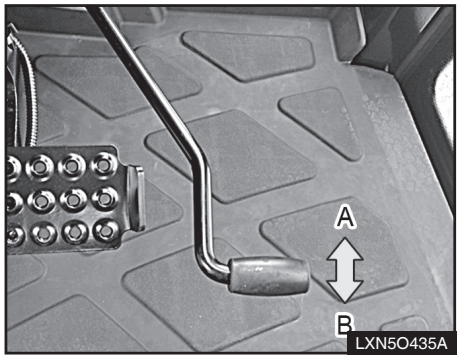
[Otherwise]

There is a risk of abrupt turning or overturning due to one-sided braking.

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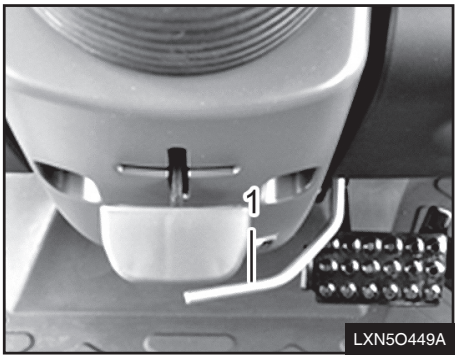
ACCELERATOR PEDAL



(A) RPM decreases (B) RPM increase

It is used to make the engine run faster or slower. It is usually used when driving on a road.

PARKING BRAKE LEVER



(1) Parking 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.

- Coupler both brake pedals with the connector.

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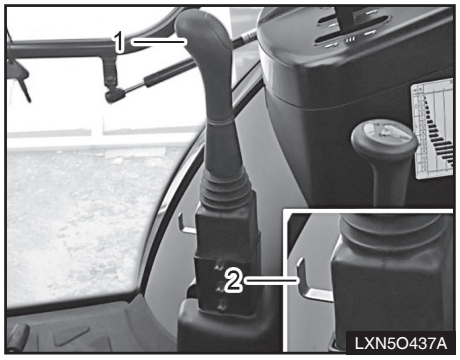
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LEVER OPERATION (R)



(1) Mid Remote Valve Joystick
(2) Main Gear Shift Lever
(3) Rear Remote Control Lever(I,II,III)
(4) Hitch Control Lever
(5) PTO ON/OFF Switch

MID REMOTE VALVE JOYSTICK



(1) Mid Remote Valve Joystick
(2) Bucket

Front-loader exclusive valve is attached and joystic 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 must be locked when driving while loader is lifted. Otherwise it may cause accident.

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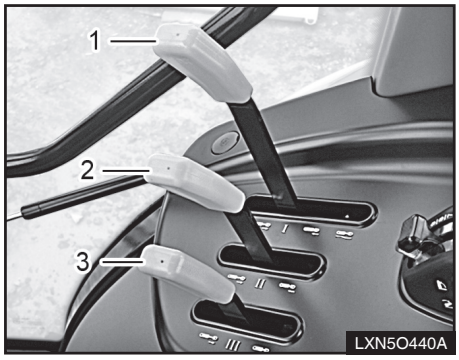
MAIN GEAR SHIFT LEVER



(1) Main Gear Shift Lever

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

REAR REMOTE CONTROL LEVER



(1) Rear Remote ControL Lever I
(2) Rear Remote ControL Lever II
(3) Rear Remote ControL Lever III

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

▶ LOCATION OF DETENT FUNCTION

Lever #	1	2	3
Detent	Front / Rear	N/A	N/A

HITCH CONTROL LEVER



(1) Hitch Control Lever
(2) One-touch Switch

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Hitch control lever can freely lift up or move down the rear implement. It will lift up when lever is pulled back and move down when lever is pushed forward.

One-touch lifting up/down switch can make lifting up to the point set by upper limit control dial and moving down to position of control lever.

⚠ WARNING

- **To avoid personal injury, do not use onetouch switch when engaging or disengaging the implement.**

DRAFT CONTROL DIAL



(1) Draft Control Dial

Draft control dial allows the implement to be automatically lifted up depending on the load on the rear implement.

It will operate with larger weight as dial is turned CW.

It will operate manually when dial is completely turned CCW and towing power lamp is turned off in gauge.

STOP / SLOW RETURN DIAL



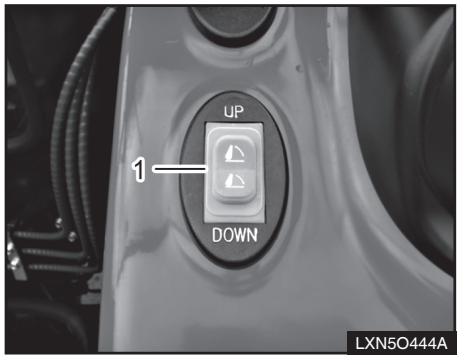
(1) Stop / Slow Return Dial

The rate at which the hitch and mounted implement will drop is controlled by turning the dial. The rate of down varies with the setting of control and the weight of the mounted implement. The heavier the implement, the faster the rate of down. The lighter the implement, the slower the rate of down.

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FENDER REMOTE SWITCH



(1) Fender Remote Switch

It is used to control hitch height.

PTO ON/OFF SWITCH



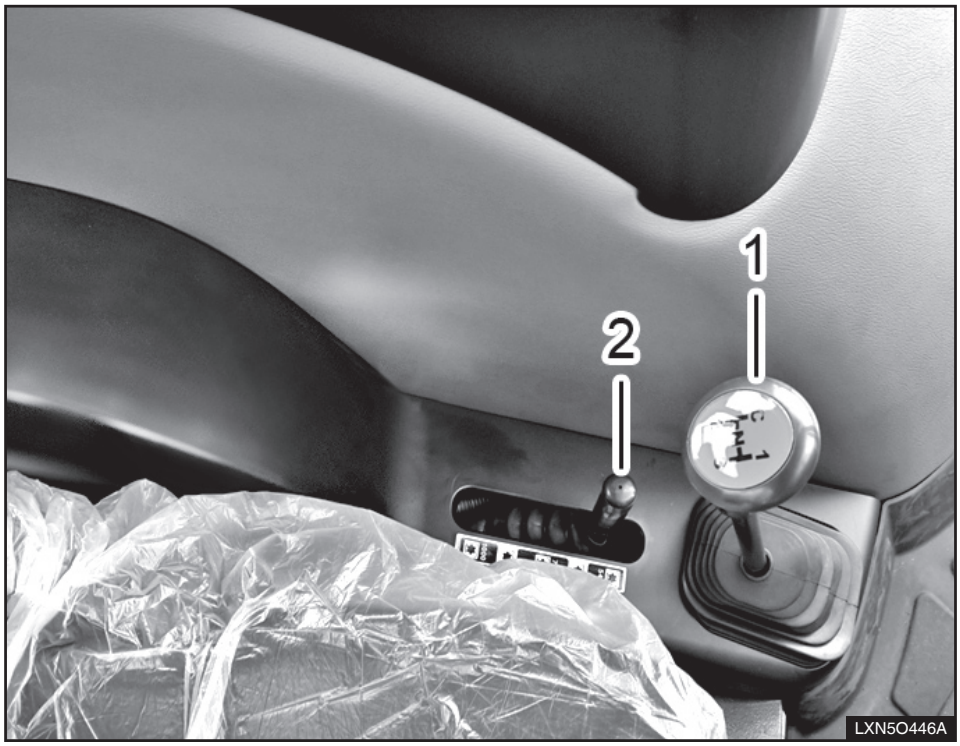
It is used for turning on or off PTO.

※The engine does not start up, when the PTO ON/OFF switch is in “ON”. Put to “OFF” position for starting up the engine.

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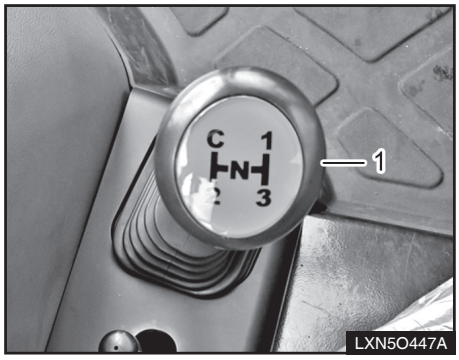
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LEVER OPERATION (L)



(1) Range Gear Shift Lever *(2) PTO Shift Lever* *(3) Parking Brake Lever*

RANGE GEAR SHIFT LEVER



(1) Range Gear Shift Lever

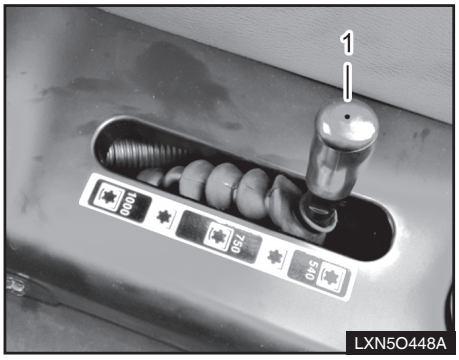
The range gear is shifted in four levels(C-1-2-3). The combination with the main gear provides 16 level of gear shifting.

When shifting the range gear, depress clutch fully

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PTO SHIFT LEVER



(1) PTO Shift Lever

⚠ CAUTION

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

The revolution of the PTO shaft can be shifted in three levels. When shifting lever, Put PTO ON/OFF switch to 'OFF' position

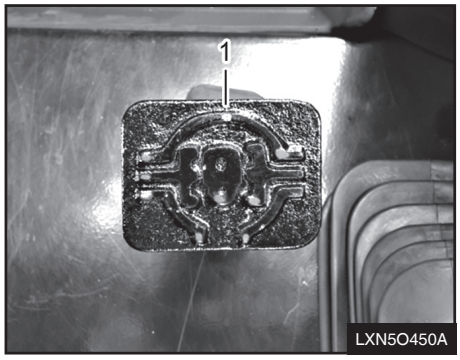
1st	529 rpm
2nd	714 rpm
3rd	1,000 rpm

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OTHERS

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.**

WORK LAMP SWITCH



(1) Front Working Lamp Switch
(2) Rear Working Lamp Switch

It is used to turn on front & rear working lamps on top roof

⚠ WARNING

- **Working lamp must be TURNED OFF while driving at night, or any sudden accidents may occur.**

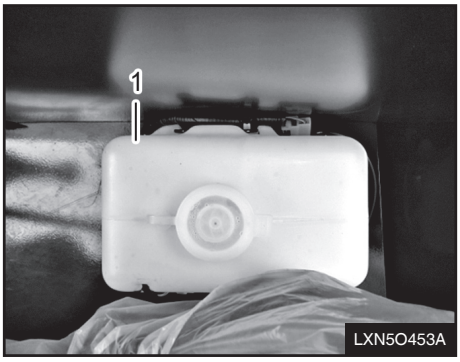
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WIPER SWITCH



(1) Front Wiper Switch
(2) Rear Wiper Switch



(1) Washer Fluid Reservoir Tank

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 lower buttons of wiper switch are pressed.

Wash liquid tank for cleaning is located on rear right side of cabin interior.

⚠ CAUTION

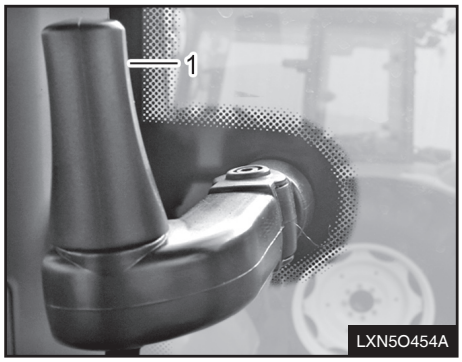
- **Do not use the washers when the washer fluid reservoir is empty, otherwise you will damage the washer pump.**
- **Do not use the washers if there is any danger that the fluid will freeze on the windshield. If you do, your vision could be obscured. For this reason, use antifreeze**

4

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SIDE WINDOW HANDLE



(1) Side Window Handle



(1) Side Window Handle

It is used to open side window.

⚠ CAUTION

- **Be aware of possible hand injury in hinge part and glass windows while opening and closing.**

POWER OUTLET



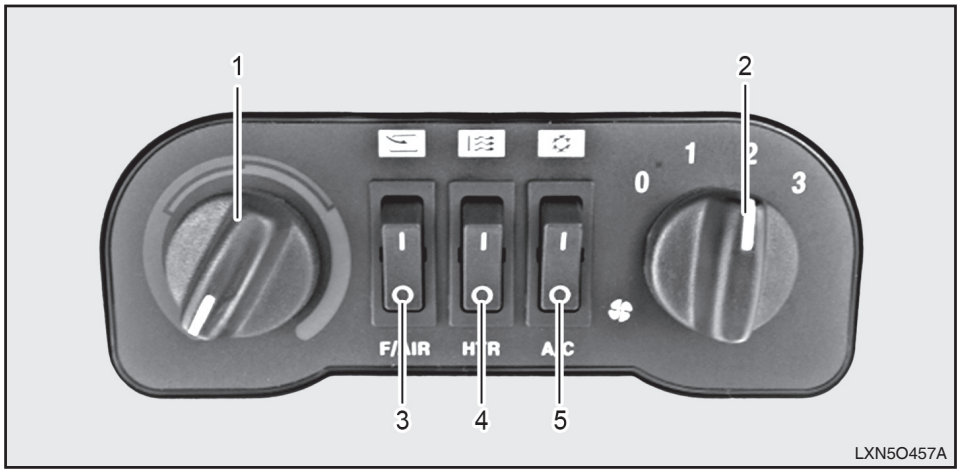
(1) Power Outlet

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

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CLIMATE CONTROL



(1) Temperature
(2) Fan Speeds
(3) Air Circulate Control
(4) Heater Control
(5) Cooling Function

1. TEMPERATURE

Red, to increase the temperature.

Blue, to decrease the temperature.

2. FAN SPEEDS

Adjust the fan speeds. The higher the rate, the more effective the heating or cooling will be.

3. AIR CIRCULATE CONTROL

Used to shift the supply of outside air and recirculates the inside air.

4. HEATER CONTROL

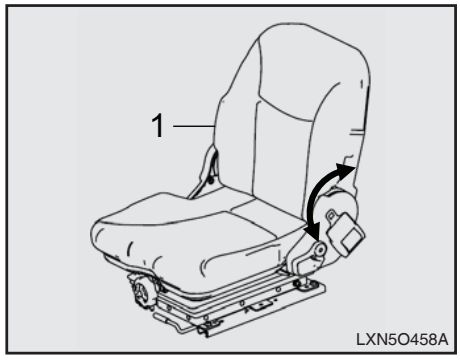
5. COOLING FUNCTION

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

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SEAT



(1) Seat

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 ensuring loss of tractor control could lead to an accident.**

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5. OPERATION & WORK

CHECKING BEFORE OPERATION 5-2

STARTING / STOPPING THE ENGINE 5-8

TO START THE ENGINE 5-9

TO STOP THE ENGINE 5-12

DRIVING ON THE ROAD 5-12

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TURNING ON THE PAVEMENT 5-14

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ADJUSTING WHEEL TREAD 5-19

POWER STEERING 5-19

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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.

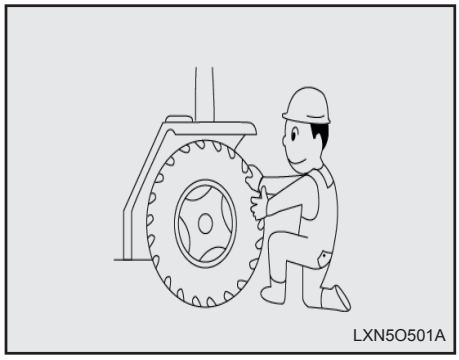
[Otherwise]
There is risk of burn.

- 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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LXN5O501A

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.

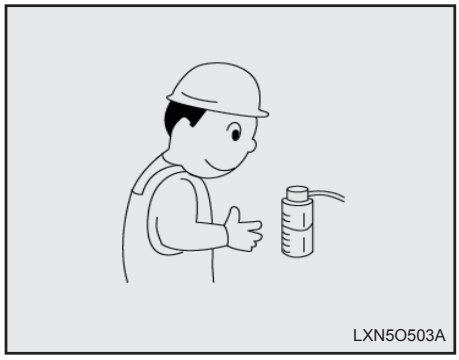
2. Check around the tractor.
   - Parking deformation, damage or stains.
   - Tire pressure and abrasion.
   - Damage to the tractor, or loosened bolts.
   - Loosening of wheel bolts.
   - Fuel quantity, fuel leaks, or damage to the fuel hose.


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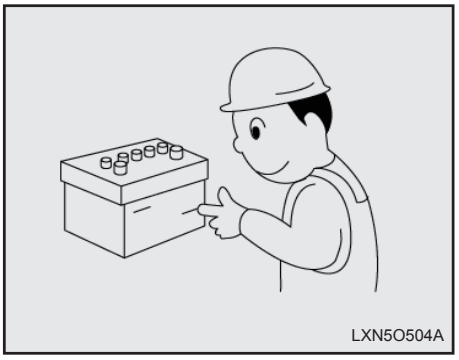
3. Open the engine hood.
   - Engine oil level, contamination, or leakage.

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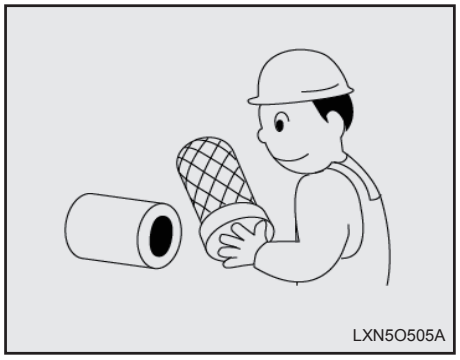
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• Engine coolant level, leakage, or damage to the hose.



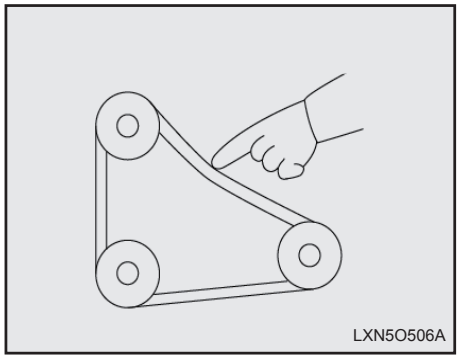
• Battery solution level.

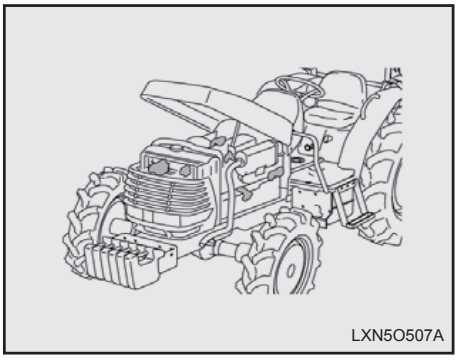


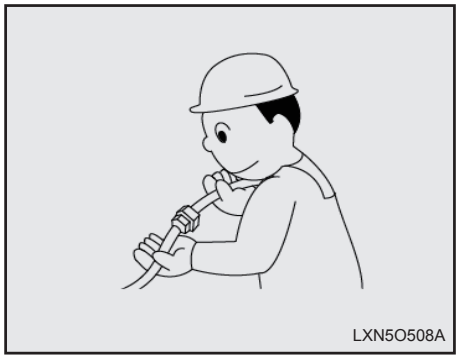
• Air cleaner.

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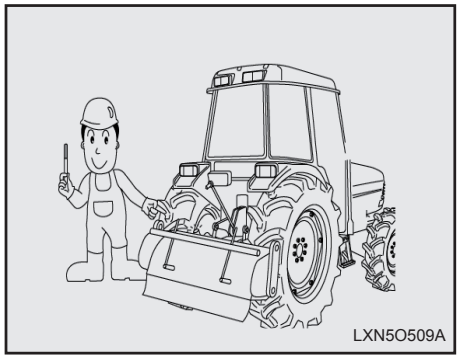
• Cooling fan belt tension, damage.

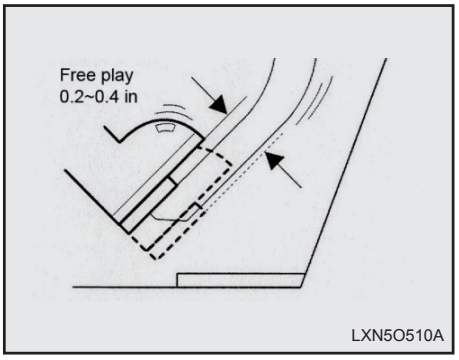
• Dust or straw on the radiator grill or the engine.

• Damage to the coating of the cables, or loosening of the contacts.

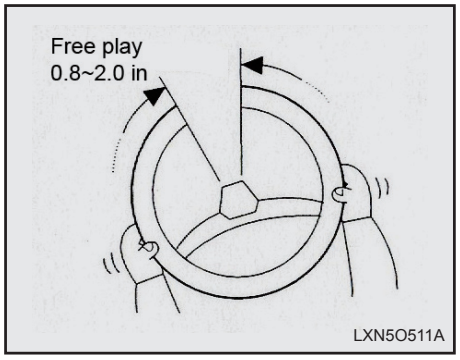
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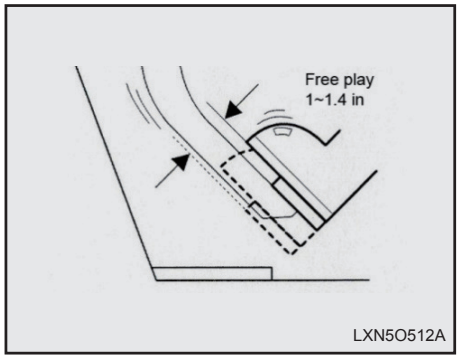
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4. Check around the implement.
   - Condition of the locking pin of the universal joint inserted in the PTO shaft.
   - Condition of R pins in each part.
   - Loosening of the bolts holding the blade.
   - Quantity of oil in each part. For more details,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

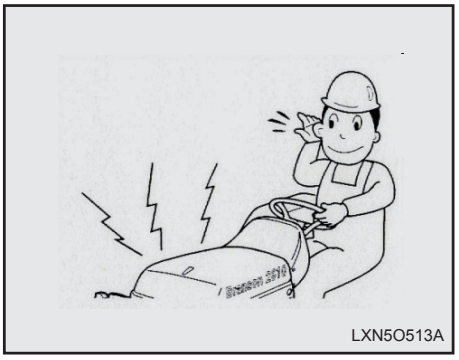
5. Check on the driver seat.
   - Operational condition and free play of the brake. (0.2~0.4in)
   - Free play of the steering wheel. (0.8~2.0in)

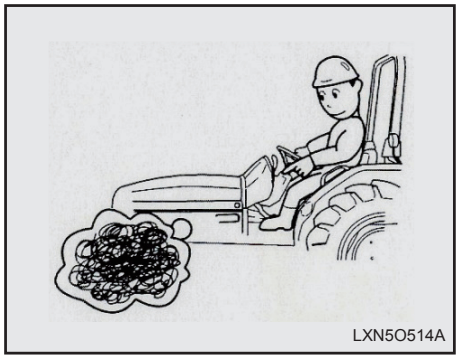
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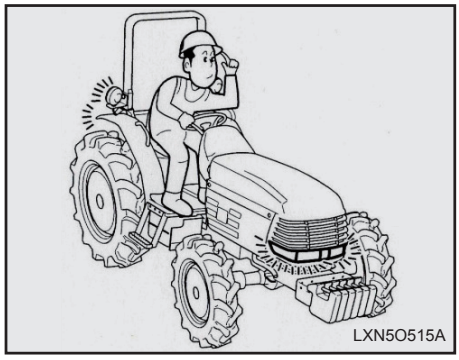
• Operational condition and free play of the clutch pedal. (Manual transmission only)

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

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STARTING / STOPPING THE ENGINE



• Operation of lamps and gauges

▶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.

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TO START THE ENGINE

⚠ 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.

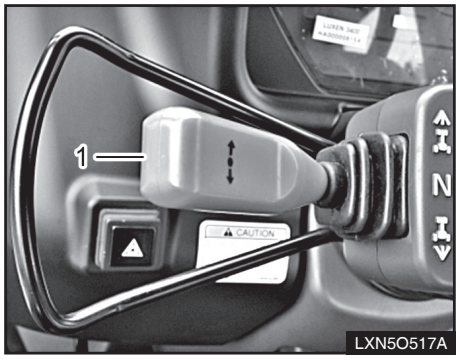
- **Don't crank engine unless hitch control lever is in the lowest position.**

[Otherwise]

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



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



(1) Shuttle Lever

2. F-R shuttle lever into "NEUTRAL" position.

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(A) Lowering



⚠ WARNING

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

[Otherwise]
There is a risk of injury.

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

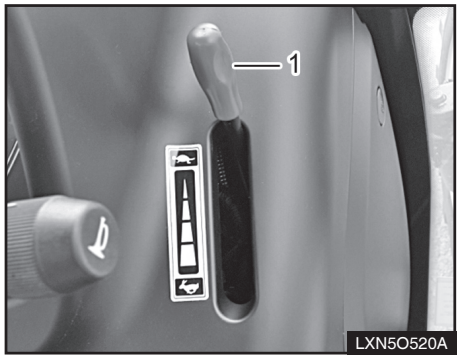
⚠ WARNING

- **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.

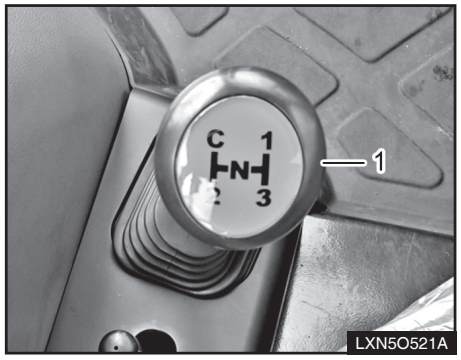
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(1) Hand Throttle Lever

4. Put the hand throttle to low position.



(1) Range Gear 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 the MAIN KEY SWITH to START.
7. Once the engine has started, take your hand off the MAIN KEY SWITCH.



(1) Main Gear Shift Lever

8. Increase the engine to about 1,500rpm and warm it up for about five minutes without a load.

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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.**

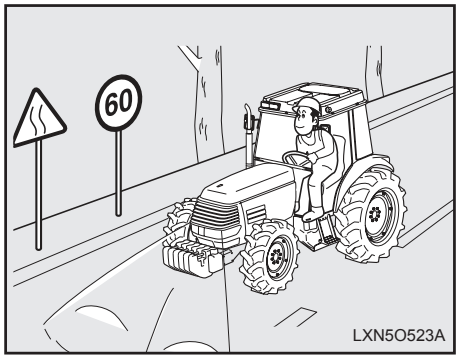
⚠ WARNING

- **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.

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.**

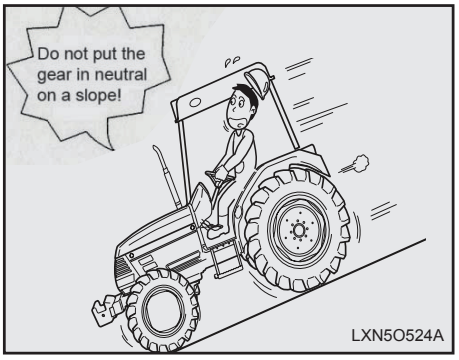
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DRIVING ON THE SLOPE

⚠ 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.



⚠ 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.

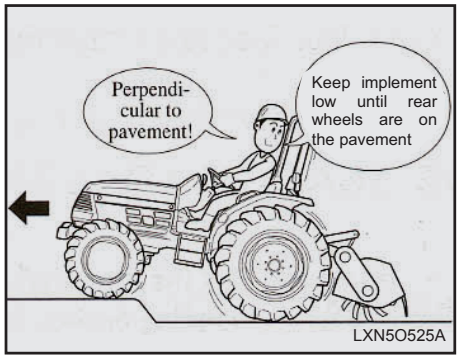
⚠ WARNING

- 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.

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ENTERING AND LEAVING THE PAVEMENT



⚠ 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.**

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.

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⚠ 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

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.

TRACTOR LOADING / UNLOADING

⚠ 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

- **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]

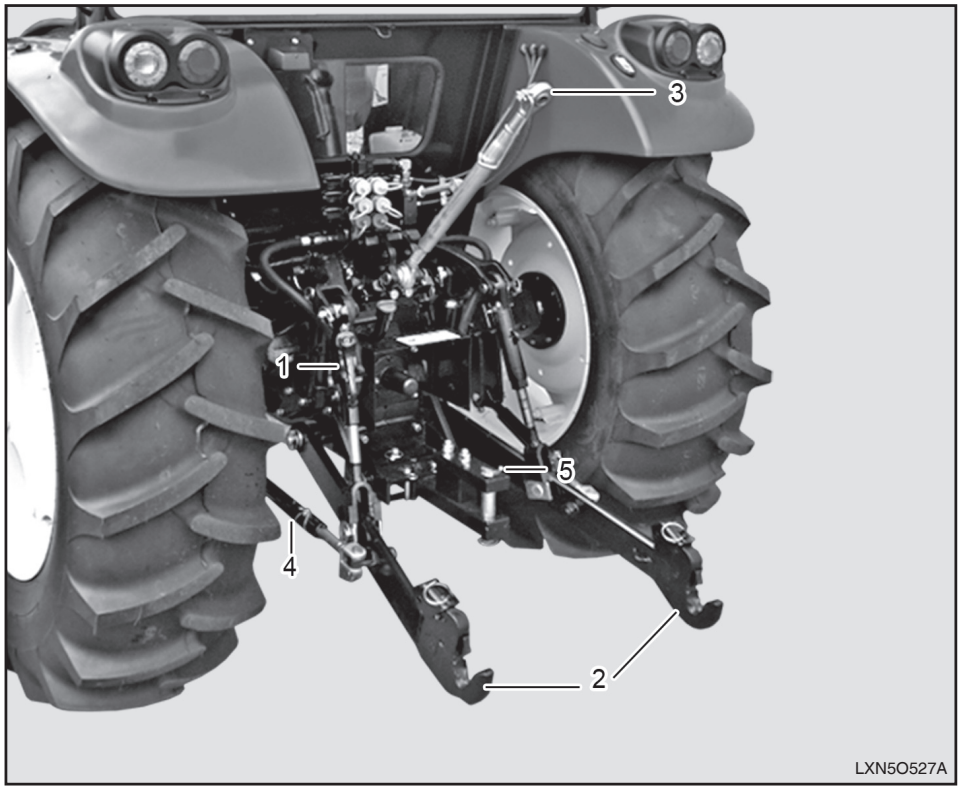
The tractor may fall off the truck and cause an accident.

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INSTALLING 3POINT LINK



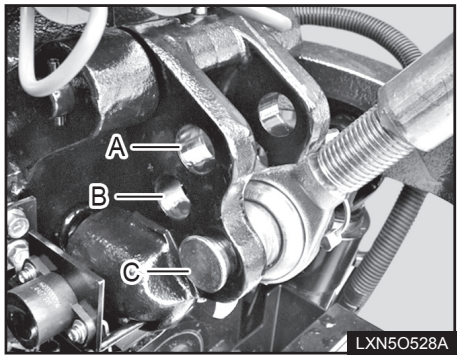
(1) Lift Link
(2) Lower Link
(3) Center Link
(4) Check Bar
(5) Draw Bar

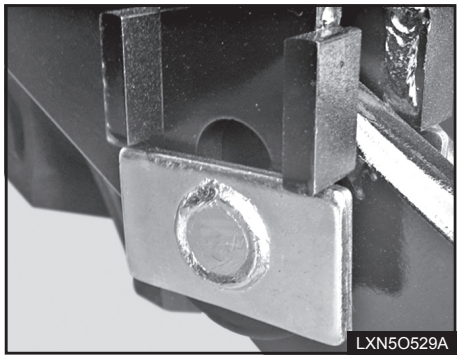
1. Attach the lower link to the link hook and insert pin into hook.
2. Connect Check chain to bracket & Lift link mounting hole and adjust length.

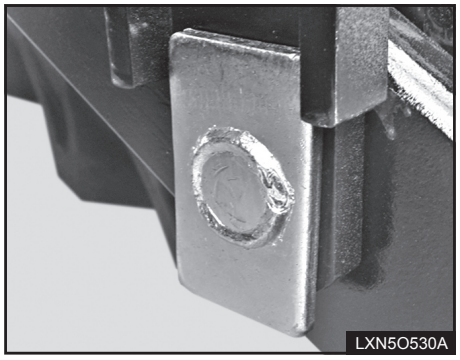
   Refer to instruction of implement for adjusting swing clearance.

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

3. There are 3- holes in center link mounting bracket.

Center 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.

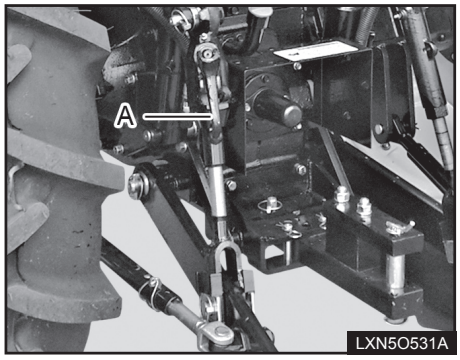
NOTE

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

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PRECAUTIONS FOR CONNECTING THE IMPLEMENT



(1) Lift Link

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

- **After adjusting, turn down the lever for locking.**

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 drawbar.
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.**

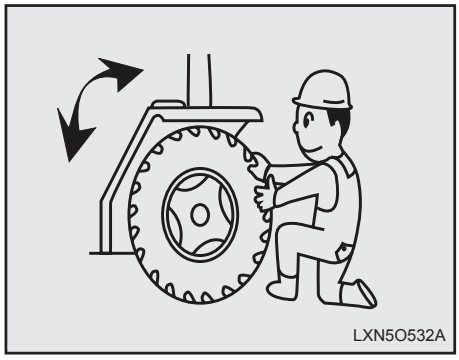
[Otherwise]

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

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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.

⚠ 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.

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

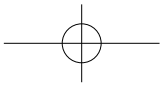
POWER STEERING

⚠ 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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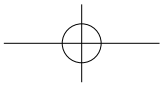




MEMO

Branson TRACTORS Branson Machinery LLC

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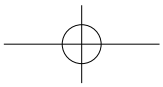
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6. MAINTENANCE AFTER WORK

MAINTENANCE AFTER WORK.....6-2

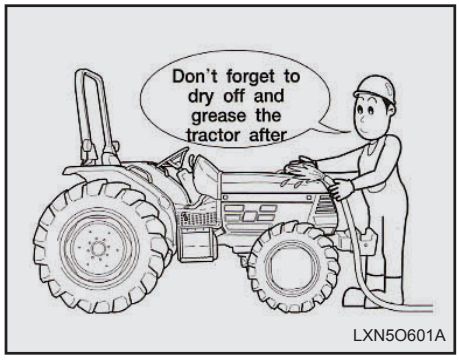
MAINTENANCE FOR PROLONGED STORAGE 6-2



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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.

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.

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⚠ WARNING

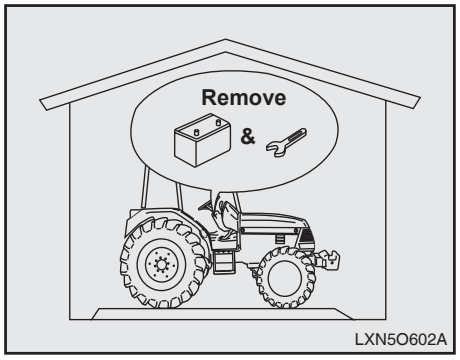
- **Carry out maintenance on a flat and safe place where the tractor will not fall or move and there is no traffic danger. Also, block the front tires to prevent moving of the tractor. Otherwise, there is a risk of accident, such as overturning of the tractor.**
- **Carry out checking and maintenance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

⚠ WARNING

- **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.



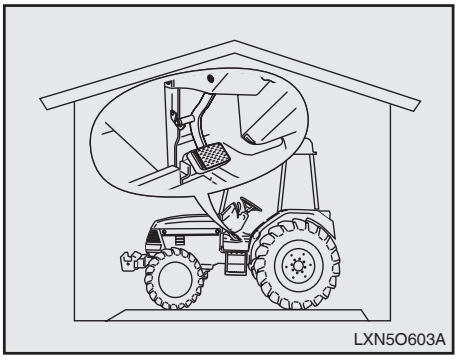
When the tractor will not be used for a long time, store it in the following manner.

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.


LXN5O603A

⚠ 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

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PERIODIC MAINTENANCE SCHEDULE

CHECK ITEMS \ RUNNING HOURS	50	100	150	200	250	300	350	400	450	500	550	600
1. Engine oil	R	R		R		R		R		R		R
2. Transmission fluid	R	○	○	○	○	R	○	○	○	○	○	R
3. Front axle fluid	R	○	○	○	○	R	○	○	○	○	○	R
4. Engine oil filter	R					R						R
5. Transmission fluid filter	R					R						R
6. Radiator cleaning	At the time the coolant is replaced											
7. Fuel oil filter and element		○		○		R		○		○		R
8. Coolant	Check before every work (Replace every year)											
9. Air cleaner element	○	○	○	○	○	○	○	○	○	R	○	○
10. Air filter cleaning	○	○	○	○	○	○	○	○	○	○	○	○
11. Fan and radiator cleaning	○	○	○	○	○	○	○	○	○	○	○	○
12. Battery solution	Replace every two years											
13. Battery (Specific gravity)		○		○		○		○		○		○
14. Fuel pipe and connection	○	○	○	○	○	○	○	○	○	○	○	○
15. Steering wheel hose	○	○	○	○	○	○	○	○	○	○	○	○
16. Radiator hose	○	○	○	○	○	○	○	○	○	○	○	○
17. Hydraulic fluid hose	○	○	○	○	○	○	○	○	○	○	○	○
18. Fuel hose, electric cables	○	○	○	○	○	○	○	○	○	○	○	○
19. Electric cables	○	○	○	○	○	○	○	○	○	○	○	○
20. Greasing	○	○	○	○	○	○	○	○	○	○	○	○

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CHECK ITEMS \ RUNNING HOURS	50	100	150	200	250	300	350	400	450	500	550	600
21. Tightening handles		○		○		○		○		○		○
22. Tightening bolts	○	○		○		○		○		○		○
23. Cooling fan belt	○	○		○		○		○		○		○
24. Engine breathe pipe	○	○		○		○		○		○		○
25. Engine crankcase cleaning						○						○
26. Intake/exhaust gas valves												○
27. Fuel injection valve												○
28. Alternator	○	○				○				○		
29. Hydraulic system	○	○				○				○		

IMPORTANT

- **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.**
- **Replace the steering wheel hose every two years.**

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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
		K62	K68 / K72 / K78	
1	Fuel	23.8 gal (90L)	23.8 gal (90L)	
2	Engine oil	1.7 gal (6.4L)	2.4 gal (9L)	
3	Coolant	2.3 gal (8.6L)	2.3 gal (8.6L)	
4	Transmission / Hyd oil	16.7 gal (63L)	16.7 gal (63L)	
5	Front axle	3.17 gal (12L)	3.17 gal (12L)	

※ The capacity of K78 Tier 3 model is same as K78 Tier 4 model.

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.

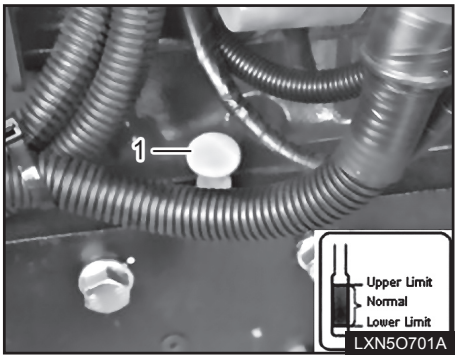
⚠ CAUTION

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

[Otherwise]

There is a danger of getting burnt.

ENGINE OIL



(1) Engine Oil

►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.**

►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.

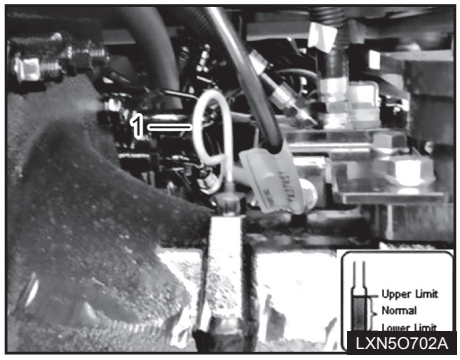
⚠ CAUTION

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

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TRANSMISSION / HYD OIL FLUID

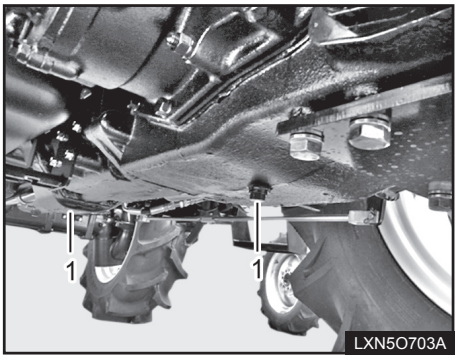


(1) Oil Gauge

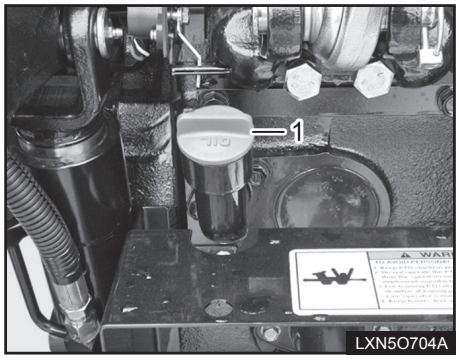
►CHECKING OIL

Check the fluid level through the dipstick at the right side of the rear axle housing. If the oil level is below the lower limit, add oil.

CHANGING OIL



(1) Drain Plug



(1) Oil Filler

►CHANGING OIL

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

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

⚠ CAUTION

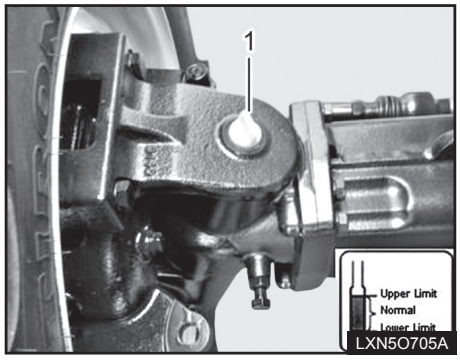
- **Drain the oil when oil is warm but be careful. If oil is hot, there is a risk of getting burnt.**

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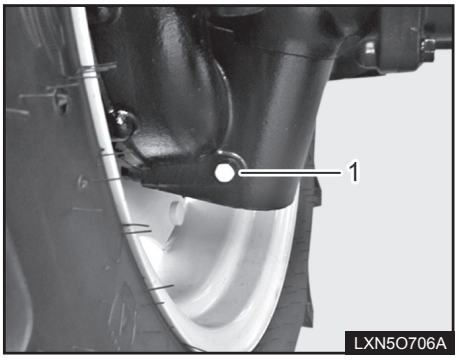
FRONT AXLE FLIUD



(1) Front Axle Oil

►CHECKING OIL

Pull out the dipstick, clean the tip of dipstick, put it back into the front axle, 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.



(1) Drain Plug

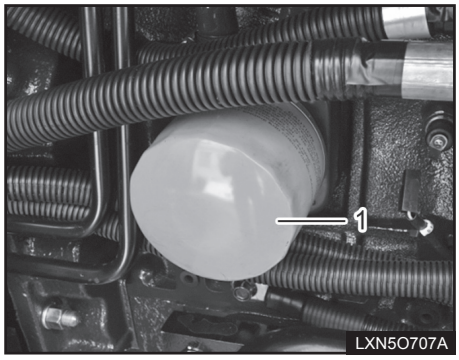
►CHANGING OIL

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

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

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.**

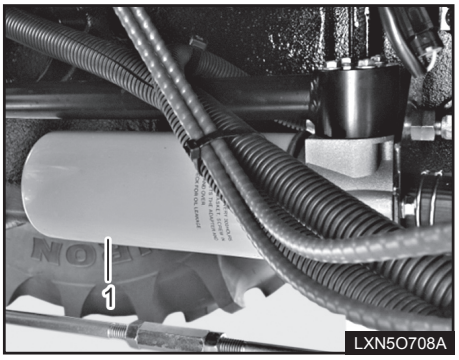
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TRANSMISSION / HYD FUILD FILTER

►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.



(1) Hydraulic Oil Filter

The filter is a cartridge type.

NOTE

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

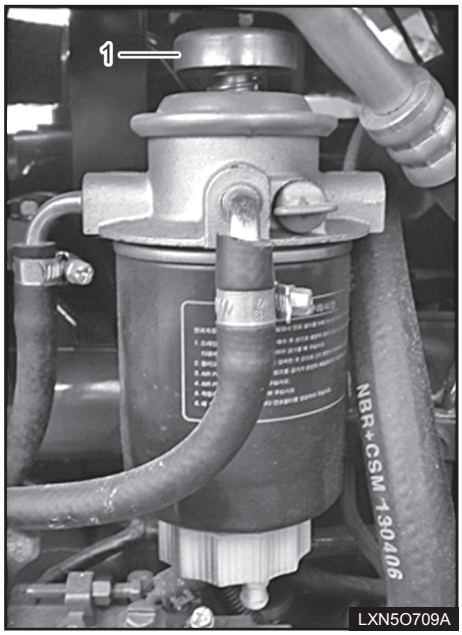
►REPLACEMENT

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.

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FUEL FILTER



(1) Fuel Filter

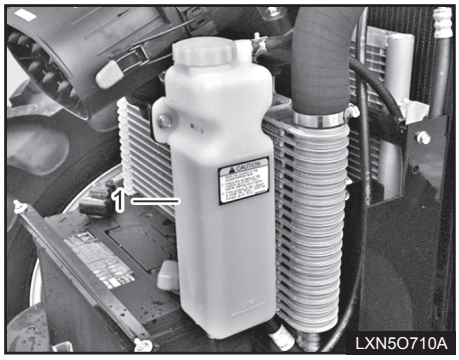
Drain the air from the fuel tank, fuel filter, and fuel filter element when the engine stops as the fuel runs out or during maintenance.

1. Refill fuel to fuel tank.
2. Press top button of fuel filter until pressure is formed, this allows air removal automatically.

NOTE

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

COOLANT



(1) Reservoir Tank

►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.

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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.

►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

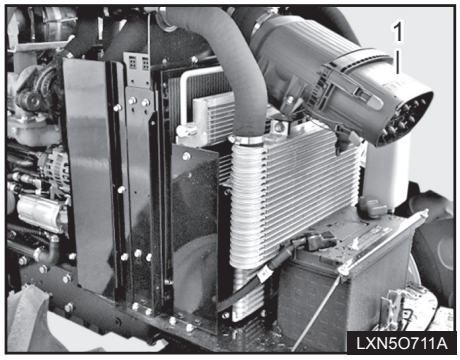
- **When replacing the coolant, add anti-corrosive solution and run the engine for about five minutes to mix it with the water.**
- **For correct mixture ratio, refer to the manufacturer’s instructions.**
- **When refilling the coolant, add only tap water.**
- **As anti-freeze expires in one year, replace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

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OTHERS
RADIATOR SCREEN / AIR CLEANER



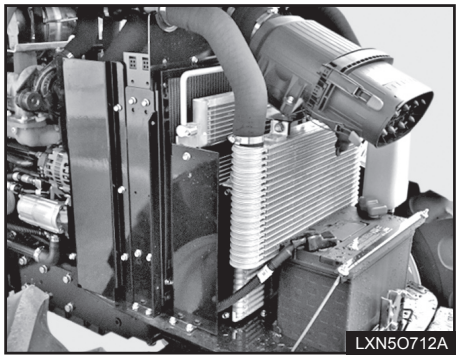
(1) Air Cleaner

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.

►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.

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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.

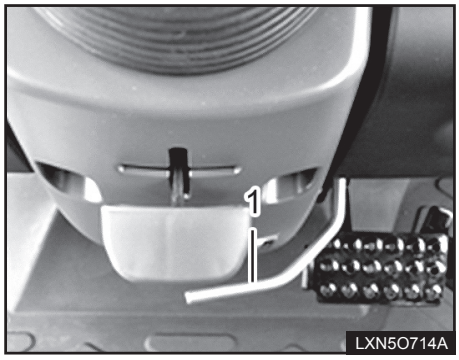
⚠ CAUTION

- **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.

ADJUSTING PARKING BRAKE

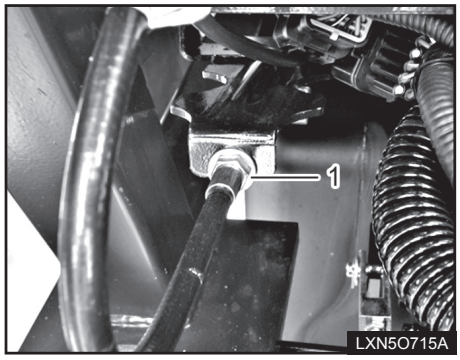


(1) Parking Brake

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

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(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.

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

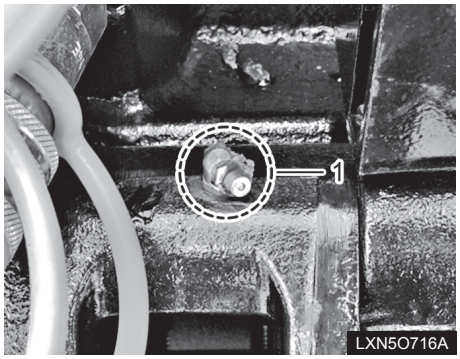
- **Before starting to work everyday, check if any cable is in contact with other parts, or if any insulation is peeled off or damaged, or any contact is loosened.**
- **Before and after work, remove any straw or dust on the battery or cables.**

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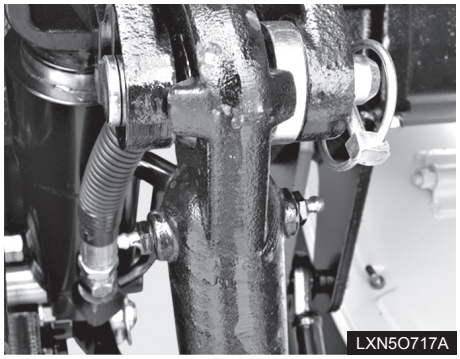
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GREASING

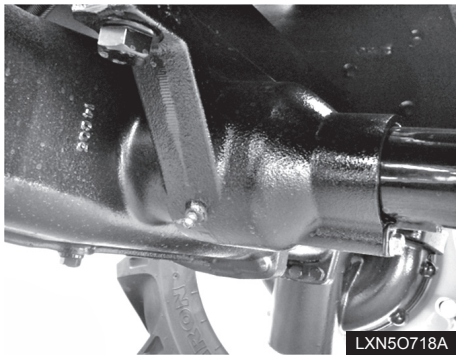
Apply grease every 50 hours. Check the relevant parts before starting work everyday and add grease as necessary. After working on wet areas, make sure to apply grease to the tractor.



(1) Center Link Hinge



(1) Lift Link (R)



(1) Front Axle Support (R)



(1) Lift Link (L)



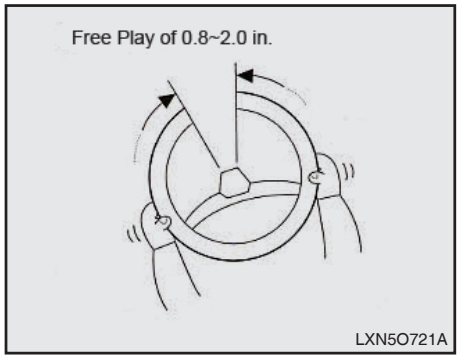
(1) Front Axle Support (F)

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STEERING WHEEL

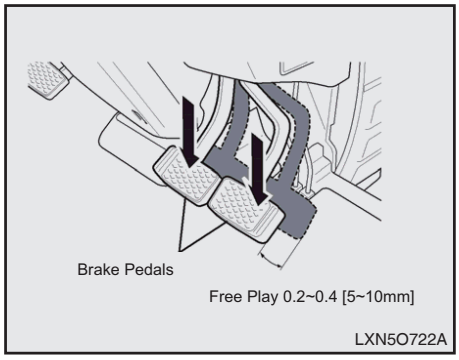


⚠ WARNING

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

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.

BRAKE



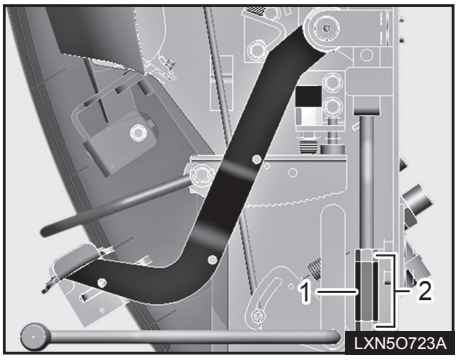
⚠ WARNING

- **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 (5~10mm).
- Adjust both of the brake pedals.

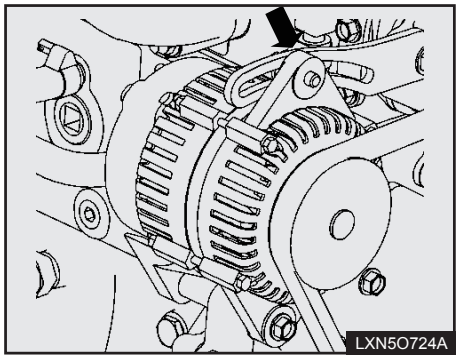


(1) Brake Rod
(2) Nut

►HOW TO ADJUST BRAKE FREE PLAY

1. Remove dashboard.
2. Loosen fixing nut.
3. Adjust the brake rod to adjust the gap.
4. Tighten the fixing nut.

FAN BELT



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 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.

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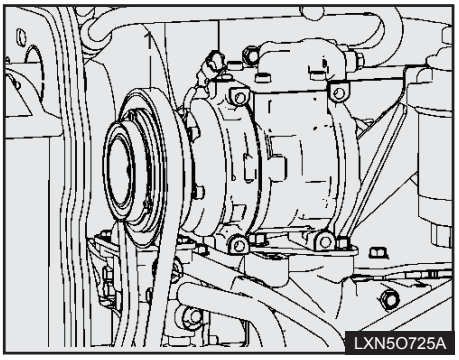
AIR COMPRESSOR BELT

⚠ CAUTION

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

[Otherwise]

There is a risk of getting burnt.



(1) Air Compressor Belt

⚠ CAUTION

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

[Otherwise]

There is a risk of getting burnt

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.

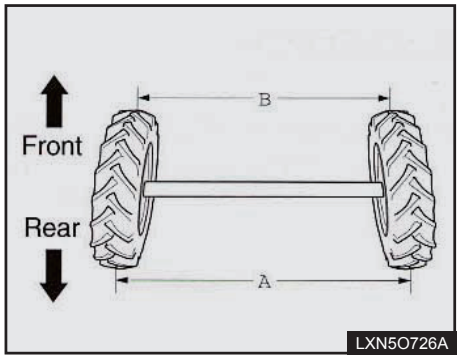
When it is not sagging enough, adjust tension by using adjusting bolt at the front of compressor.

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

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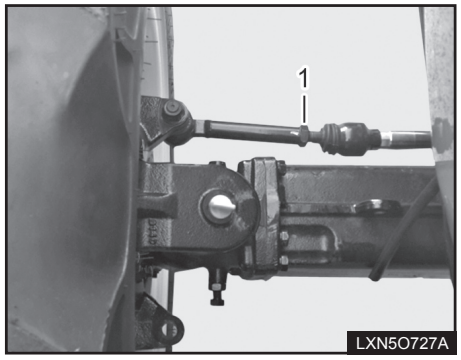
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TOE-IN



►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).



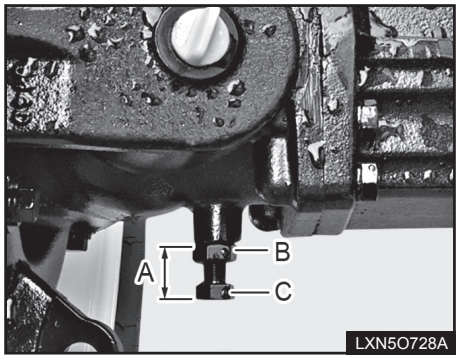
(1) Nut

►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.

FRONT AXLE SWING



(A) Stop Bolt Retaining Lock Nut
(B) Lock Nut (C) Stop Bolt

1. Slowly turn the steering wheel to the left until the steering cylinder travel has reached its limit, the steering stops.
2. Measure between bottom of bolt head and case “A”. It should be 1.2 in (30 mm).

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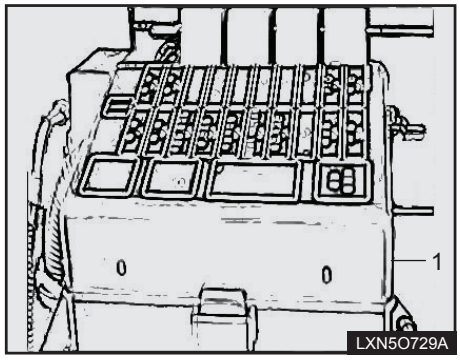
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FUSE & FUSEABLE LINKS

►HOW TO ADJUST

1. Loosen the lock nut (B) and adjust stop bolt (C).
2. Tighten stop bolt retaining lock nut (A) to 92 lb-ft.
3. Repeat above step for the other side.



(1) Main Fuse

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

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

A fuseable 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.

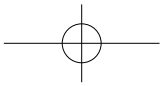
If the fuse burns immediately after being replaced, it must be checked by the authorized dealer.

⚠ WARNING

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

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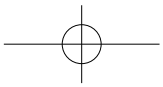




COLOR OF EXHAUST GAS

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.



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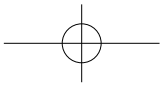
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MEMO

Branson TRACTORS Branson Machinery LLC

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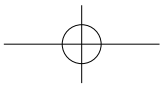
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8. TROUBLE SHOOTING

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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? • Is the battery discharged?	• Fill the battery solution and fully charge the battery.
	• Is the PTO ON/OFF switch is turned on?	• Turn off PTO ON/OFF switch.
	• 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 defective?	• Contact the dealer for repair or replacement.
2. The motor starts, but 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.
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 core clogged?	• Clean the radiator core
	• 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 defective?	• Replace the switch
	• Is the oil pump defective?	• Contact dealer for repair
8. Thermostat lamp is not turned on.	• Is the fuse burnt out?	• Replace the fuse
9. Battery warning lamp is on during operation.	• Is the regulator (current limit) defective?	• 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 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 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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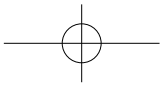
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ELECTRICAL SYSTEM

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.

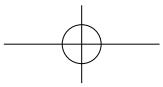
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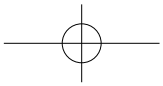

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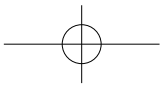
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SPECIFICATIONS

MODEL				TIER 4				TIER 3
				K62	K68	K72	K78	K78
1. Drive System				4 Wheel Drive				
2. Dimensions	Overall Length		in. (mm)	152.7 (3,879)				
	Overall Width		in. (mm)	68.5~77.5 (1,741~1,968)				74.5 (1,893)
	Overall Height		in. (mm)	98.5~103.6 (2,501~2,632)				102.6 (2,605)
	Wheelbase		in. (mm)	86.6 (2,200)				
	Tread	Front	in. (mm)	55.5~62 (1,410~1,575)				56.4 (1,433)
		Rear	in. (mm)	54.3~59.6 (1,380~1,515)				57.0 (1,448)
	Ground Clearance		in. (mm)	15.1~20.3 (384~515)				16.8 (427)
	Weight		Lbs (kg)	6250 (2,835)				



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MODEL			TIER 4				TIER 3
			K62	K68	K72	K78	K78
3. Engine	Model		A2300T1	D3400TCI3	D3400TCI2	D3400TCI1	D3400T-ATAC
	Type(*)		Vertical, 4 Cycle, Water Cooled, Diesel, EPA Tier 4 Certified				Tier 3
	Combustion System		Indirect Injection	Direct Injection			
	Aspiration		Turbo charged				
	Engine Output	HP	60	65	70	74	78
	Engine RPM	rpm	2,600	2,500			
	No of Cylinder		4				
	Bore x Stroke	In. (mm)	3.46 x 3.70 (88 x 94)	3.85 x 4.44 (98 x 113)			
	Displacement	cu in (cc)	139.5 (2,286)	208 (3,409)			
	Type of air cleaner		Dry, Double Filter Elements				
	Fuel tank capacity	gal (L)	23.8 (90)				
4. Steering			Hydrostatic				
5. Clutch			Multi, Wet				
6. Battery			12V				
7. Brake			Wet Disc				

※ Engine Type(*): Tier 3(Except USA and EU), Tier 4 (Only USA and EU)

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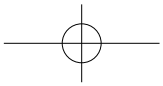
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MODEL			TIER 4				TIER 3
			K62	K68	K72	K78	K78
8. Transmission	Main Shifting		Fully Synchronized (4 speed)				
	Forward Reverse Method		Power Shuttle (hydraulic shuttle)				
	Gear Shifting (Front x Rear)		F16 x R16				
	Travel Speed	mph	Forward (0.19~24.8) / Reverse (0.19~25.6)				
9. PTO	Type		Independent P.T.O. (6 Spline shaft)				
	Speed	rpm	529 / 714 / 1,000				
10. Hydraulic System	Type		Electric over hydraulic control (position, draft & mixed)				
	3 Point Hitch		Telescopic lower link / Telescopic stabilizers				
	Category		Category II				
	Pump Flow @ 2,600 rpm	Steering Pump	6.9 GPM (10cc)	8.3 GPM (12cc)			
		Main Pump	11.1 GPM (16cc)	12.4 GPM (18cc)			

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

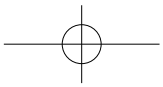
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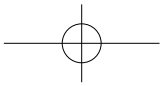
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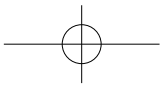
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