WORKSHOP MANUAL COMBINE HARVESTER

DC-60-PH

Kubota

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TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of DC-60-PH. It is divided into three parts, "General", "Mechanism" and "Servicing".

■ General

Information on the machine body and engine identifications, the general precautions, tightening torque and special tools are described.

Mechanism

Information on the construction and function are included. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

Servicing

Information on the troubleshooting, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information illustrations and specifications contained in this manual are based on the latest product information available at the time of publication.

Specifications and other content contained in this manual are subject to change without prior notice.

August 2010

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INFORMATION

INFORMATION

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1. SAFETY FIRST

A SAFETY FIRST

• This symbol, the Safety Alert Symbol, is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.

• It is essential that you read the instructions and safety regulations before you attempt to repair this unit.



DANGER

 Indicates an imminently hazardous situation which will result in death or serious injury if you do not follow the instruction.



WARNING

 Indicates a potentially hazardous situation which could result in death or serious injury if you do not follow the instruction.



CAUTION

• Indicates a potentially hazardous situation which may result in injury if you do not follow the instruction.

■ IMPORTANT

• Indicates that machinery damage or failure could be caused if you do not follow the instruction.

■ NOTE

• Indicates useful information for operation.

(Reference)

· Indicates other suggestions for your reference.

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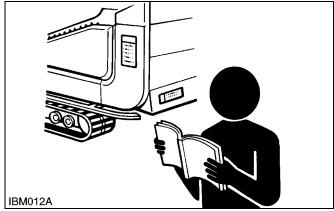
2. FOR YOUR SAFETY OPERATION

Before using the combine harvester, carefully read the operator's manual and fully understand the machine and information to ensure safe operation. For your safety operation, instructions mentioned below must be followed; in addition, pay particular attention to the \(\hat{\pmathbb{A}}\)DANGER, \(\hat{\pmathbb{A}}\)WARNING, \(\hat{\pmathbb{A}}\)CAUTION, (IMPORTANT), and (NOTE) warnings in this manual.

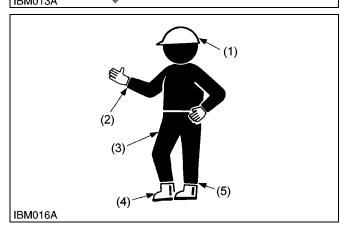
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[1] FOR YOUR SAFETY OPERATION, INSTRUCTIOMS MENTIONED BELOW MUST BE FOLLOWED

(1) General Precautions



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A Carefully read the operator's manual and warning labels on the combine harvester for correct operation and work sequence.

 In addition to the precautions provided in this book, pay enough attention to safety. Warning Labels must be clean at all times.

(Failure to do so)

· May result in death or serious injury.

9Y1210019INI0004US0

ADo not operate when you don't feel well.

- The operation needs the right response and judgement. Do not operate the machine when you are;
 - Drunk
 - Lacking sleep
 - Pregnant
 - Overworked or sick
 - Under 16 years of age

(Failure to do so)

· May lead to unexpected accidents.

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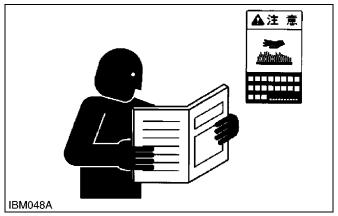
⚠Both the operator and assistant(s) must wear clothes suitable for work.

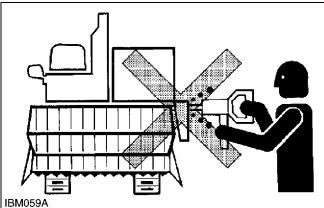
- · Do not wear loose-fitting clothes.
- Button cuffs tightly.
- Do not wear a neckerchief. Do not have a towel around your head or waist either.
- · Do not wear sandals or slippers.

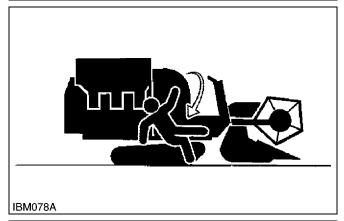
(Failure to do so)

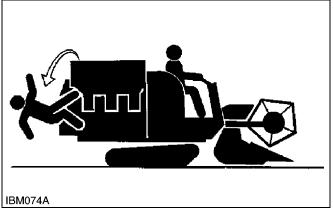
- Loose clothing may become caught in rotating parts and levers or slippery footwear may cause serious injury.
- (1) Hard Hat
- (2) Tight Cuffs
- (3) Well-fitting Clothes
- (4) Non-skid Shoes
- (5) Neat Pants Bottom

9Y1210019INI0006US0









A Children and persons who cannot understand the operator's manual or the A warning labels should never attempt to operate the combine harvester.

 If you lend the combine harvester to others or allow others to operate the machine, instruct them to read the operator's manual while explaining the proper procedures for safe operation.

(Failure to do so)

May result in death or serious injury.

9Y1210019INI0007US0

▲Do not modify the combine harvester.

(Failure to do so)

 May lead to improper function causing unexpected accidents.

9Y1210019INI0008US0

⚠Do not jump in or out of the operator's seat.

 When getting on/off the combine harvester, firmly grasp the handrail while parked on level grounded and watch your step.

(Failure to do so)

 May result in the operator falling from the machine causing serious injury.

9Y1210019INI0009US0

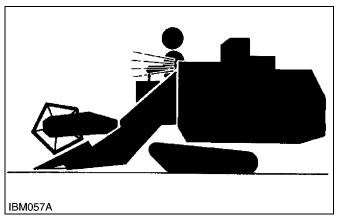
ANo one other than the operator should ride in the combine harvester.

• Do not jump onto the operator's seat or jump out of the seat while the combine harvester is moving.

(Failure to do so)

• You may be thrown off or hit by the combine harvester causing death or serious injury.

9Y1210019INI0010US0



harvester during the night.

· If you are forced to operate at night, use the head light and the work lamp.

Avoid operating and traveling in the combine

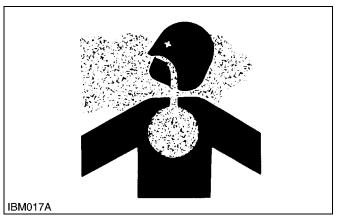
If you are forced to travel at night, use the rear work lamp.

(Failure to do so)

May result in traffic accidents or the operator falling from the machine causing death or serious injury.

9Y1210019INI0011US0

Precautions before Operation



Adequate ventilation must be provided to remove the exhaust gas when you operate indoors.

 To let in fresh air, extend the exhaust pipe outdoors or keep the door and windows open.

(Failure to do so)

 The exhaust gas from the engine is toxic. May cause life-threatening poisoning.

9Y1210019INI0012US0



ANo fire or flame is allowed during refueling. Do not smoke or hold an open flame near the fuel.

- Be sure to turn off the engine and take out the main switch key during refueling.
- Thoroughly wipe off fuel or oil spills, if any.

(Failure to do so)

May lead to fire.

9Y1210019INI0013US0



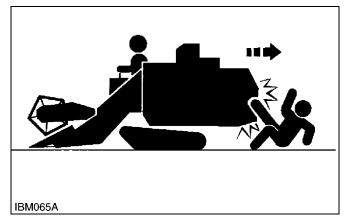
ACheck the surrounding area and ensure safety before starting the combine harvester.

- Sit in the operator's seat and set main shift lever to the (STOP) position before starting the engine. Threshing and reaping clutch levers should be set to the (OFF) position and horn sounded.
- Horn should be sounded when you start driving or when putting the threshing and reaping clutch levers in gear.

(Failure to do so)

Bystanders may become caught in rotating parts or the machine causing serious injury.

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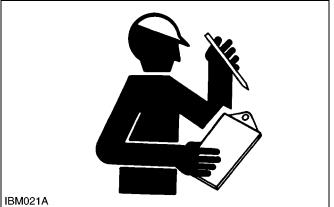


■ Those who operate the machine for the first time must run it at low speed.

(Failure to do so)

· May lead to unexpected accidents.

9Y1210019INI0015US0



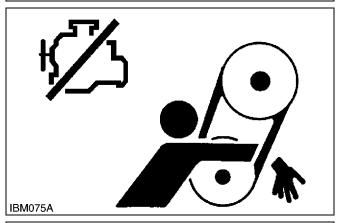
▲Perform daily check before operation.

Conduct periodic inspections with the checklist (refer to the operator's manual) before operation. If any abnormalities are observed, do not operate until abnormality is corrected.

(Failure to do so)

• Faulty maintenance may lead to serious injury.

9Y1210019INI0016US0

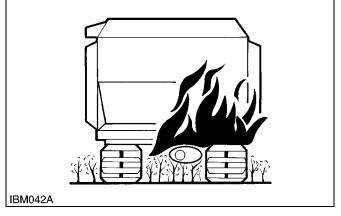


- Be sure to turn off the engine and take out the main switch key during inspection, servicing, cleaning, and refueling.
- Be sure to reinstall the safety and protective covers back into their respective positions.

(Failure to do so)

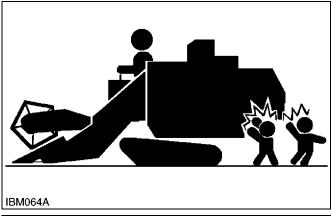
 You may become caught in rotating parts causing serious injury.

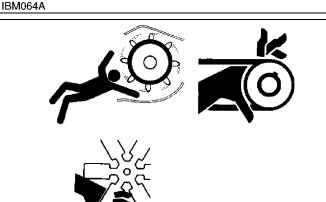
9Y1210019INI0017US0



- Completely remove any straw accumulated around the muffler, belt cover, and battery. (Failure to do so)
- May lead to fire.

9Y1210019INI0018US0





IBM076A

■ Keep children away from the machine during inspection and maintenance.

(Failure to do so)

• Children may become caught in rotating parts or the machine causing serious injury.

9Y1210019INI0019US0

ABe sure to turn off the engine and take out the main switch key when you open/close the engine room side cover, thresher side cover, or thresher upper cover.

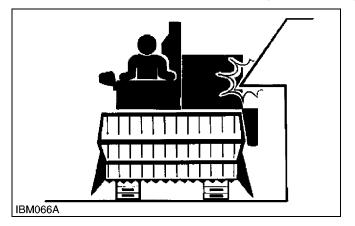
- Open/close each cover while parking on level ground.
- Lock the stopper in position when the thresher side cover is open.
- Do not start the engine while any of the covers are open.

(Failure to do so)

 You may become caught in rotating parts causing serious injury.

9Y1210019INI0020US0

(3) Precautions for Traveling, Entering/exiting the Field, and Parking



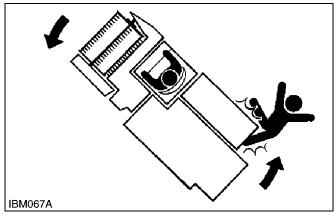
≜Observe the following instructions when traveling.

- Combine harvester may not be driven on the public highway by law. Transport it by the truck.
- Make sure to set the threshing and reaping clutch levers into the (OFF) position. No one other than the operator should ride in combine harvester.
- · Make sure to discharge all paddy.
- When shifting the sub shift lever, stop traveling and set the main shift lever to the (STOP) position while parked on level ground.
- Do not set the sub shift lever to the P (parking brake) position while driving.
- Put back the auxiliary deck to make the combine harvester narrower.
- Raise the reaper and install the lock plate to prevent the reaper from falling.

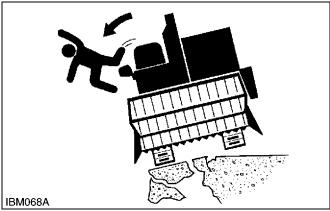
(Failure to do so)

 May cause human injury or damage objects. In addition, poor balance increases the risk of falling.

9Y1210019INI0021US0



IBM069A





▲Do not rapidly change direction while driving fast.

 Reduce travel speed (run at low speed) and slowly move the power steering lever to change the direction.

(Failure to do so)

 You may be thrown off the combine harvester or it may turn over.

9Y1210019INI0022US0

A Slow down the travel speed while traversing a slope.

- Do not operate the power steering lever or the sub shift lever on the slope.
- Do not travel sideways or change direction on the slope.

(Failure to do so)

Combine harvester may run out of control or turn over.

9Y1210019INI0023US0

⚠Do not travel on elevated, narrow roads (banks).

- Be careful when driving through farm roads and pay attention to the uneven shoulders of a road.
- Do not drive near ditches, holes, or banks.
- When visibility is poor due to puddles or overgrown grass, alight the combine harvester and check area prior to operation.

(Failure to do so)

 The combine harvester may lose balance and turn over.

9Y1210019INI0024US0

AUse the bridges to enter/exist fields where much difference in ground level.

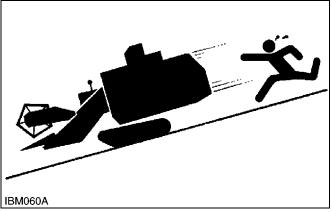
- Where the difference in ground height is more than 10 cm, use the standard bridges 4 times the length of the difference in ground height.
- Place the bridges in the perpendicular to a border.
- Make sure to discharge all paddy.

(Failure to do so)

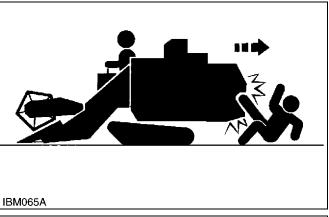
 The combine harvester may lose balance and turn over.

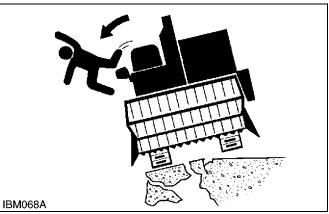
9Y1210019INI0025US0





(4) Precautions during Operation





Approach ridge at a perpendicular angle at slow speed to cross.

- Where the difference in ground height is more than 10 cm, use a standard bridges 4 times the length of the difference in ground height.
- Make sure to discharge all paddy.

(Failure to do so)

 The combine harvester may lose balance and turn over.

9Y1210019INI0026US0

ASet the sub shift lever to (P) (parking brake) and apply the parking brake on a level ground area when you park or leave the combine harvester. Lower the reaper until it touches the ground. Be sure to turn off the engine and then remove the main switch key.

 If you are forced to park on a slope, place the stop blocks under the crawlers to prevent the combine harvester from moving.

(Failure to do so)

The combine harvester may roll causing an unexpected accident.

9Y1210019INI0027US0

AWhen working with others, use the horn, etc. to signal operations.

- Using the horn as a signal, get the understanding from an assistant before turning on the engine, engaging clutches, and using switches.
- When the assistant approaches the combine harvester, he or she must make it known to the operator.

(Failure to do so)

 May lead to an unexpected accident as visibility of others is restricted during operation.

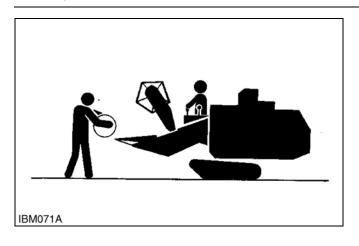
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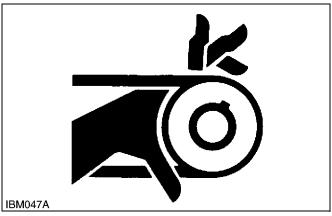
APay particular attention to looking to the rear before corner-reaping.

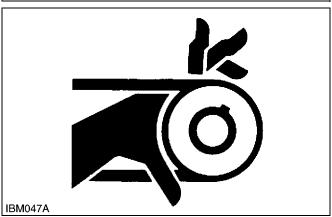
(Failure to do so)

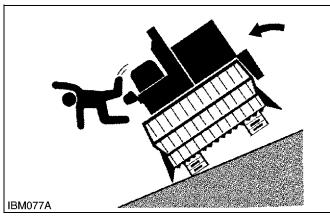
• Improper handling may cause the combine harvester to fall or turn over.

9Y1210019INI0029US0









AKeep away from the reaper and supply crops in small amounts to perform throw away threshing

- Park the combine harvester on level ground, turn off the reaper, and apply the parking brake.
- · Do not stand in front of the reaper.
- Assistants should sit in the operator's seat and be ready to turn off the engine if necessary.
- Raise the reaper and the reel to the highest position.
 Install the lock plate to prevent the reaper from falling and then throw crops little by little.
- Button cuffs tightly. Do not wear gloves, headbands or wear towels around your head or neck, etc.

(Failure to do so)

 You may become caught in the reel causing serious injury.

9Y1210019INI0030US0

Alf any abnormalities are observed, immediately turn off the engine and remove the main switch key.

- When removing twine/clogging, checking paddy or cleaning, disengage the threshing and reaping clutch levers to the (OFF) position. Be sure to turn off engine.
- Wear thick gloves when removing the straw stuck in the thresher. Remove little by little.
- Do not touch the edge of blade with hands.

(Failure to do so)

• You may become caught in moving parts (chain, etc.) causing serious injury.

9Y1210019INI0031US0

ABe sure to reattach safety covers.

• Do not operate without reattaching belt/chain covers and cleaning port.

(Failure to do so)

 You may become caught in rotating parts causing serious injury.

9Y1210019INI0032US0

<u>ADO not operate on surfaces where the angle of inclination is over 5 degrees.</u>

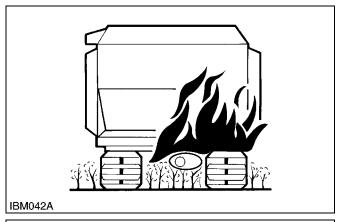
• Stop traveling and move to a level ground area. Make sure the combine harvester is not lean to one side and then resume the operation.

(Failure to do so)

 You may lose control of the combine harvester causing fall down.

9Y1210019INI0033US0

(5) Considerations when Storing after Use

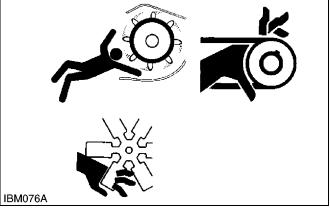


⚠Do not park the combine harvester on straw or dry weeds/grass.

(Failure to do so)

 Straw and dry weeds/grass burn easy and may catch fire.

9Y1210019INI0034US0



Be sure to turn off the engine and remove the main switch key before checking or cleaning.

(Failure to do so)

 You may become caught in the combine harvester causing serious injury.

9Y1210019INI0035US0



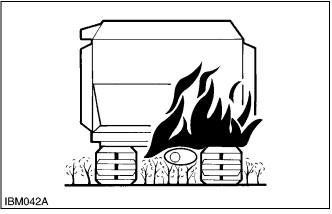
AWhen checking or cleaning, be sure to stop the engine and wait until each part sufficiently cools down.

• Do not touch the engine or muffler right after stopping the engine.

(Failure to do so)

• May result in serious burns.

9Y1210019INI0036US0



A Check the engine body, muffler, wiring inside belt cover, battery and its surrounding area for any accumulated straw. Remove as necessary.

(Failure to do so)

May lead to fire.

9Y1210019INI0037US0

⚠When cleaning, do not touch blade edge.

(Failure to do so)

May result in serious injury.

9Y1210019INI0038US0

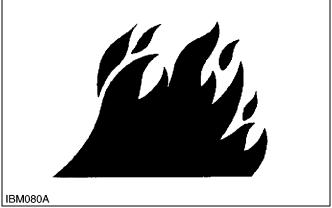


AKeep any naked flame (match, lighter, cigarette) away from the battery. Be careful not to short battery.

(Failure to do so)

 Hydrogen gas may generate from the battery and cause an explosion.

9Y1210019INI0039US0

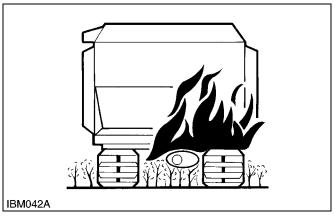


ACheck the electrical wiring such as the wire harness and the battery cable for damage and disconnection.

(Failure to do so)

· A short in the electrical wiring may cause fire.

9Y1210019INI0040US0



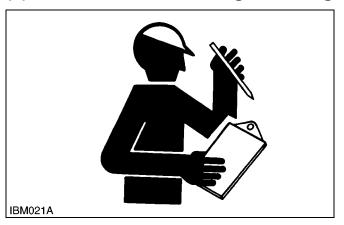
AWhen putting a cover over the combine harvester, wait until the engine and muffler sufficiently cool down.

(Failure to do so)

· May lead to fire.

9Y1210019INI0041US0

(6) Considerations During Checking and Maintenance

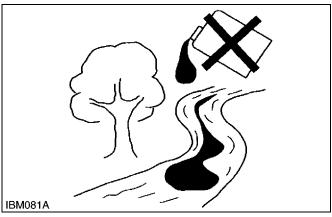


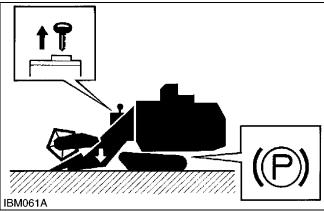
APrecautions for inspection and maintenance on each part.

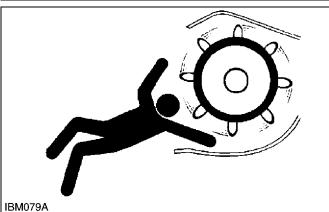
(Failure to do so)

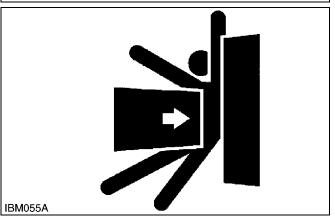
• Faulty maintenance may lead to serious injury.

9Y1210019INI0042US0









▲ Do not recklessly dispose or burn waste.

- · Use a container when draining waste oil.
- Do not dispose waste oil into river, pond, ocean or earth.
- When disposing/burning waste oil, fuel, cooling water, coolant, solvent, filters, batteries, rubber products and other hazardous materials, consult with the seller or an industrial waste disposer. Be sure to conform to the rules when disposing waste.

(Failure to do so)

 May pollute the environment and you may be punished by law.

9Y1210019INI0043US0

AWhen checking, servicing, replacing or cleaning parts, be sure to park the combine harvester on level ground. Shift the clutch levers to the (OFF) position and apply the parking brake. Be sure to turn off the engine and remove the main switch key.

(Failure to do so)

 You may become caught in the combine harvester causing serious injury.

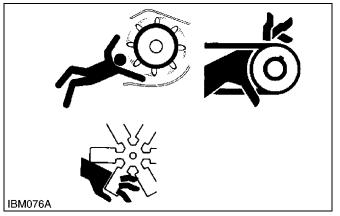
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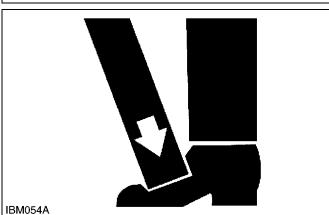
ALock with the stopper in position when the thresher side cover is open.

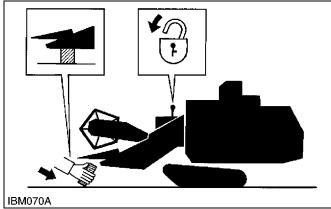
(Failure to do so)

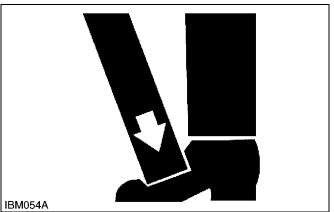
 You may become caught in the combine harvester causing serious injury.

9Y1210019INI0045US0









⚠Do not start the engine with the engine room side cover, thresher side cover or thresher upper cover open.

(Failure to do so)

 You may become caught in rotating parts causing serious injury.

9Y1210019INI0046US0

⚠When replacing heavy items like the sieve case, replace with two people or more.

(Failure to do so)

· Falling may result in serious injury.

9Y1210019INI0047US0

When checking, adjusting or cleaning with the reaper raised, lock the hydraulic cylinder and place stop blocks under the reaper to prevent the reaper from falling.

- Be sure to stop the engine and apply the parking brake before operation.
- Do not go under the reaper or place your hand or foot below the reaper.

(Failure to do so)

 You may become caught in the combine harvester, causing serious injury.

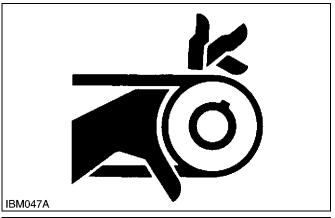
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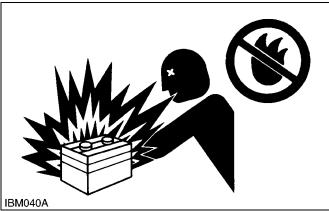
When adjusting/replacing the reaping blade or received blade, wear gloves and do not touch the blade edges with your hands.

(Failure to do so)

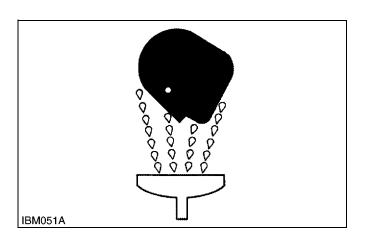
· May result in serious injury.

9Y1210019INI0049US0









ABe sure to reinstall the safety covers in their respective positions.

(Failure to do so)

 You may become caught in rotating parts, causing serious injury.

9Y1210019INI0050US0

AWhen detaching the battery, disconnect the negative (-) battery cable first.

- Keep any naked flame (match, lighter, cigarettes) away from the battery. Also, avoid sparks due to battery cable shorts.
- When installing the battery, reconnect the positive (+) battery cable first to the positive (+) terminal.

(Failure to do so)

Serious burns or explosion may result.

9Y1210019INI0051US0

▲ Do not use or charge the battery when the battery electrolyte is below the lower (lowest level) limit.

- When the battery electrolyte is below the limit, immediately refill the electrolyte. It should be between the (UPPER LEVEL) (upper limit) and (LOWER LEVEL) (lower limit).
- To charge the battery, remove it from the machine.
- Charge the battery in a well-ventilated area.
- Carefully read accompanying documents and follow instructions when connecting the booster cable with the discharged battery.

(Failure to do so)

 Using/charging the battery when the battery electrolyte is below the LOWER (lowest level) limit could cause shortened the battery life or may result in explosion.

9Y1210019INI0052US0

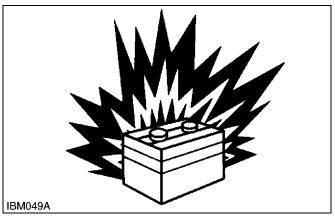
Avoid direct contact with the electrolyte (dilute sulfuric acid).

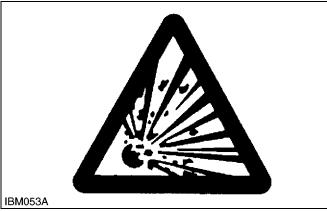
- If you get the battery electrolyte in your eyes, rinse well with water and see a doctor.
- If you get the electrolyte on your skin or clothes, immediately rinse thoroughly with water.

(Failure to do so)

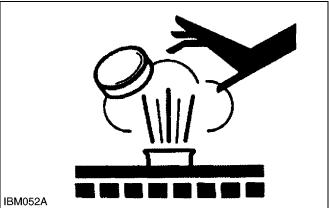
· May result in blindness or serious burns.

9Y1210019INI0053US0









▲ Do not use unspecified batteries.

• Use a battery specified in the manual.

(Failure to do so)

May cause an accident.

9Y1210019INI0054US0

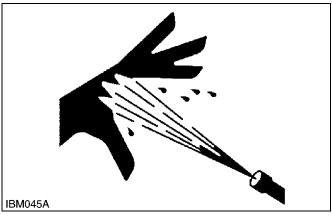
AWhen opening the radiator cap or reserve tank, wait until the engine has cooled down considerably.

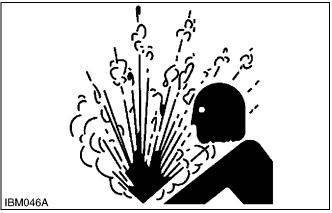
 Stop the engine and wait for 30 minutes or longer before removing radiator cap. Gradually open the cap to reduce steam pressure.

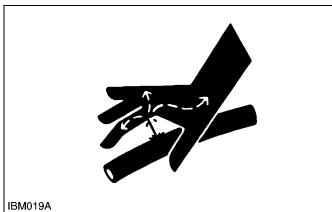
(Failure to do so)

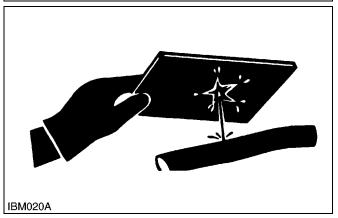
 Hot water or steam may gush out, causing serious burns or injury.

9Y1210019INI0055US0









AReplace the fuel hose, radiator hose and drain hose every 2 years.

• Periodically replace the rubber products, since they deteriorate over time.

(Failure to do so)

• Fuel or hot water may leak out, causing serious burns or injury.

9Y1210019INI0056US0

AWhen checking the fuel injection pipe or hydraulic pipe for a leakage of high-pressure oil, use a cardboard or plate.

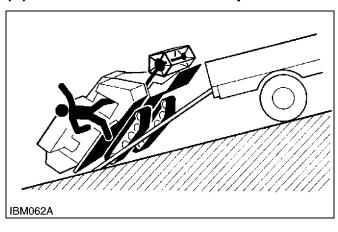
• Do not touch the high-pressure oil with your hands.If you come into contact with the high-pressure oil, immediately consult a doctor.

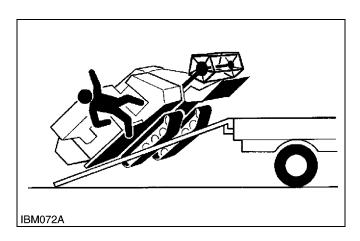
(Failure to do so)

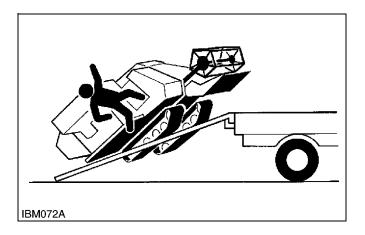
• The oil may penetrate your skin, causing gangrene.

9Y1210019INI0057US0

(7) Precautions for Transportation







Load/unload the combine harvester on/from the truck onto a level surface.

- Before loading/unloading the combine harvester, make sure the bridges are not leaning to one side.
- Park the truck and apply the parking brake. Set the shift lever in (R) (reverse) or (FIRST) position and then place the stop blocks under the crawlers to prevent the truck from moving.
- If at all possible, work with your assistant(s) and ensure good communication with them.
- Make sure no one else is near around the bridges.

(Failure to do so)

• The bridges may fall off or the truck may move, causing the combine harvester to fall.

9Y1210019INI0058US0

<u>A</u>Use bridges meeting the standard for loading/unloading.

· Bridge requirements

Length	More than 4 times the height of the truck bed
Width	More than 55 cm
Quantity	One pair
Strength	A bridge that can support a weight of 2800 kg or more

- Use the bridges with hooks or a non-skid surface.
- The bridges should be square with the truck bed when placed.

(Failure to do so)

 The bridges may slip off or move, causing the combine harvester to fall.

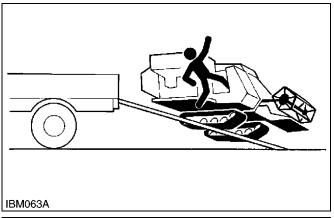
9Y1210019INI0059US0

Make sure to discharge all paddy before loading/unloading.

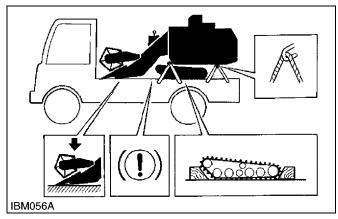
(Failure to do so)

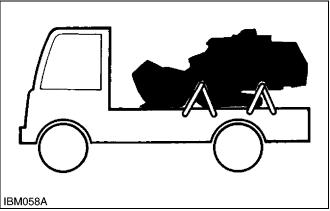
 You may lose control of the combine harvester, causing it to fall.

9Y1210019INI0060US0



IBM072A





Loading/unloading the combine harvester on/from the truck should be performed at slow speed.

• When loading, travel forwards. When unloading, travel backwards.

(Failure to do so)

 You may lose control of the combine harvester, causing it to fall.

9Y1210019INI0061US0

⚠ Drive only straight while on the bridges.

- Do not use the power steering lever or the sub shift lever on the bridges.
- To change direction, move to level ground or the truck bed first and then correct the direction.

(Failure to do so)

 May result in quick turning or loss of control, causing the combine harvester to fall.

9Y1210019INI0062US0

⚠On the truck, lower the reaper until it touches the ground and apply the parking brake.

- Set the sub shift lever to the (P) (parking brake) position.
- Use the specified (ROPE HOOK (for 4 places)) and firmly fasten to the truck bed.
- Be sure to set a stopper.

(Failure to do so)

 The combine harvester may move, resulting in an accident.

9Y1210019INI0063US0

Avoid sudden acceleration, sudden braking and quick turning.

(Failure to do so)

The combine harvester may move, causing an accident.

9Y1210019INI0064US0

3. WARNING LABELS DESIGNED FOR SAFE OPERATION

[1] DESCRIPRION OF WARNING LABELS AND LABELED POSITION

(1) Part No. 5T019-4352-1



Extreme danger. Never touch the reel while it is rotating.

(2) Part No. 5T019-4353-1



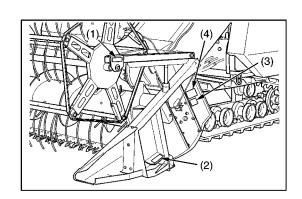
Don't insert hands during operation since you may be injured with the blade.

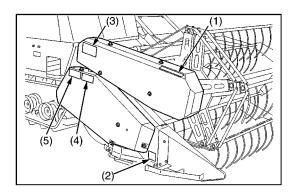
(3) Part No. 5T019-4355-1



If threshing manually (throwing the crop into the combine by hand):

- 1. Stop the combine on flat ground, and apply the parking brake.
- There is the possibility of becoming entangled and injured in the reel, therefore:
 - Button your cuffs. Do not tie a towel around your head, wear a neck scarf, or hang a towel at your side.
 - Stand in an elevated position slightly away from the reaper and throw in the crop a little at a time.
 - Have an assistant sit in the driver's seat, who can stop the engine immediately if necessary.





(4) Part No. 5T019-4354-1



▲ WARNING

Stop the engine before removing any wound or clogged straw. Risk of injury.

(5) Part No. 5T019-4368-1



A CAUTION

- Don't put a hand in the cover bottom since you may be injured with rotating objects.
- 2. Surely stop engine at the time of check and adjustment.
- Don't fail to put again the cover onto the belt after completion of check and adjustment.
- 4. Always operate the machine with the cover fitted on the belt.

9Y1210019ICO001US

(1) Part No. 5T019-4338-1



CAUTION

Always stop the engine before dealing with any malfunction.

(2) Part No. 5T019-4335-1



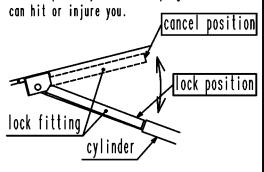
When the crawler stalls in ill-drained paddy field, etc., do not press down the main shift lever continuously for longer than 10 seconds. Otherwise, the HST may be broken.

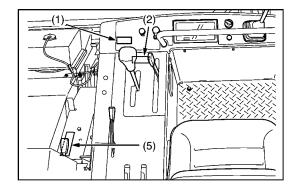
(3) Part No. 5T019-4351-1



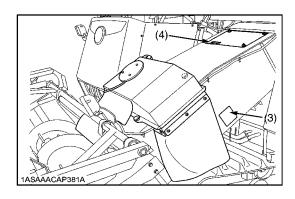
WARNING

When you perform check or adjustment with the reaping device raised, it is absolutely necessary to attach a lock fitting to the reaping lift cylinder. Otherwise, the unexpectedly lowered reaping device





"H Type shown here"



(4) Part No. 5T019-4361-1

CLEANING PORT

Since the rotating device is inside the cover, stop the engine surely when cleaning.

Do not fail to close the cover after cleaning.

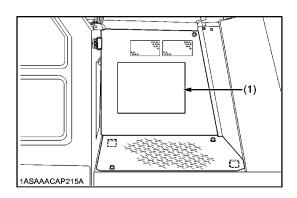
(5) Part No. 5T019-4368-1



A CAUTION

- 1. Don't put a hand in the cover bottom since you may be injured with rotating objects.
 Surely stop engine at the time of check and adjustment.
- 3. Don't fail to put again the cover onto the belt after completion of check and adjustment.
- 4. Always operate the machine with the cover fitted on the belt.

9Y1210187ICO001US



(1) Part No. 5T019-4397-1



CAUTION

[Before operation]

1. In order to work safely, carefully read the operation manual of the machine to master how to operate it. 2.To start engine, turn all clutches off and put the main shift lever into "STOP" position.

3. Ventilate indoor frequently since exhaust gas tends to collect and there may be a danger of gas poisoning.

4 Turn all clutches off and surely suspend engine at the time of cleaning, check and adjustment since there is a possibility that you may be injured.

[Under novement/work]

1. When you start the machine or operate its threshing or reaping devices, make certain the surrounding safety and don't bring people close to the machine. 2.Since there may be a danger of fall/rollover accident,

don't run in inclination grounds, roads of weak shoulder, cliff and etc.

3. When the machine moves, raise the reaping device. 4. When the machine moves, run engine at 2000 rpm or more.

5. Slowly run the machine on cornering in the road.

5.3 of the machine, put the main shift lever into "SIDP" position.
7. Except for the time of reaping work, that is, at the time of climbing over levees, a move run, conveyance or hangaring, grain has to be completely discharged or removed and every working clutch has to be put into "OFF" position.

[Stop of engine]

Return the accelerator lever to the position of a "TORTOISE" mark.

2. In order to stop engine, pull an orange button "STOP

at the left of the front panel. 3.First return the main switch to "STOP" position and take out the key.

[Parking and waiting]

1.Don't stop the machine on chaff or weeds since there may be a danger of fire.

2. In order to switch the range gear shift lever, put the main shift lever into "STOP" position on a flat ground. Otherwise, the machine will start suddenly or run a way.

3. When you leave the machine, first lower the reaping device, remove the key after stop the engine and set the range gear shift lever to the "Parking" position. Moreover, when you park the machine on a slope, prepare a buffer stop to prevent its reckless run.



CAUTION

Observe the following conditions when loading to a trailer or getting over a ridge; otherwise the combine might turn over to cause a serious accident

(1)Drive forward when loading and drive back when unloading. (2)Shift the range gear shift lever into "Low" position and increase the engine speed to 2000 rpm or higher. After this, slowly operate the main gear shift lever and travel at low speed.

(3)Do not operate the power steering lever while halfway up a bridge plate. If you need to change the direction of the combine, drive back down to the ground or drive forward onto the trailer's bed and start over again

(4) The length of each bridge plate must be more than 4 times longer than the difference in height between the ground surface and the trailer bed. Use nonskid bridge plates which meet the applicable standards.

[During transportation]

When transporting the combine, lower the reaper section to the lowest position, apply and set the range gear shift lever to the "Parking" position and hold the combine body in place with ropes and chains.

(No not use parts other than the books for this nurnose Failure to do this will cause damage to the machine.)

9Y1210552ICO006US

(1) Part No. 5T019-4343 -1



- ■To open engine cover and check for overheat or the like, take steps below.
- (1)Stop engine.
- (2) Wait for 30 minutes or more before opening cover.
- ●Never open engine cover before engine cools down. Otherwise, you may get scalded or burnt by hot water gushing out of radiator or reserve tank or by contact with hot spot.





A CAUTION



When servicing in opening the engine room, do not touch hot surface like muffler, exhaust pipe, engine, etc.



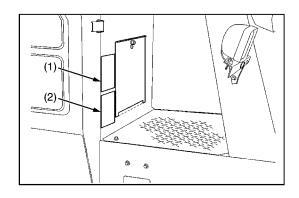
CAUTION

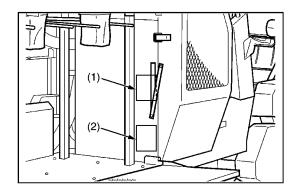


TO AVOID PERSONAL INJURY: Stop the engine before opening the engine room.

Set the engine room lock before starting the engine.

9Y1210552ICO001US





(1) Part No. 5T019-4362 -1



Don't insert hands during operation since you may be injured with rotating objects.

(2) Part No. 5T019-4326-1





- Stop the engine before fueling up.
- Be positively sure to keep fire away to prevent fuel from catching fire.
- Wipe up spilt fuel completely.



(3) Part No. 5T019-4364-1



AWARNING

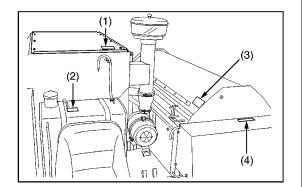
- Never fail to close the threshing drum and set the cover while working.
- Stop the engine surely when opening the threshing drum since the threshing teeth rapidly spinning inside and you may be injured if you touch it.

(4) Part No. 5T019-4369-1



Do not step on this cover.

9Y1210552ICO002US

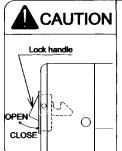


(1) Part No. 5T019-4362-1

A CAUTION

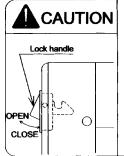
Don't insert hands during operation since you may be injured with rotating objects.

(2) Part No. 5T019-4366-1

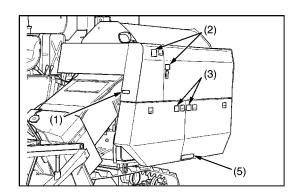


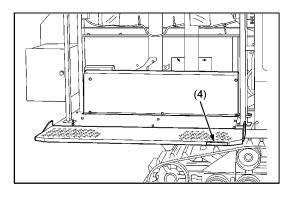
- 1. Always put the lock handle in the "CLOSE"position when closing this cover.
- If it is not securely locked, there is a danger that the cover may fall off.

(3) Part No. 5T019-4367-1



- I. Always put the lock handle in the "CLOSE"position when closing this cover.
- 2. If it is not securely locked, there is a danger that the cover may fall off.





(4) Part No. 5T019-4329-1

ACAUTION Keep this deck upright position when traveling.

(5) Part No. 5T019-4368-1



A CAUTION

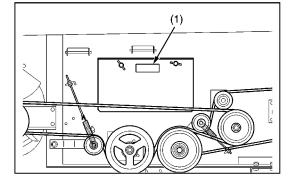
- 1. Don't put a hand in the cover bottom since you may be injured with rotating objects.
- 2. Surely stop engine at the time of check and adjustment.
- 3. Don't fail to put again the cover onto the belt after completion of check and adjustment.
- 4. Always operate the machine with the cover fitted on the belt.

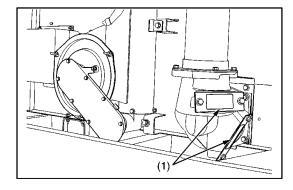
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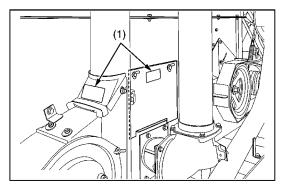
(1) Part No. 5T019-4361-1

CLEANING PORT

Since the rotating device is inside the cover, stop the engine surely when cleaning.
Do not fail to close the cover after cleaning.







9Y12100552CO004US

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