

Product: 2012 Kubota WSM M8560,M9960 Tractor Service Repair Workshop Manual  
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# WSM

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WORKSHOP MANUAL  
**TRACTOR**

**M8560, M9960**

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**Kubota**

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## TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the M8560 and M9960. It contains 4 parts: "**Information**", "**General**", "**Mechanism**" and "**Servicing**".

### ■ **Information**

This section primarily contains information below.

- Safety First
- Safety Decal
- Specification
- Dimension

### ■ **General**

This section primarily contains information below.

- Engine Identification
- Model Identification
- General Precautions
- Maintenance Check List
- Check and Maintenance
- Special Tools

### ■ **Mechanism**

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

Refer to the latest version of Workshop Manual (Code No. 9Y021-01870 / 9Y021-18200) for the diesel engine / tractor mechanism that this workshop manual does not include.

### ■ **Servicing**

This section primarily contains information below.

- Troubleshooting
- Servicing Specifications
- Tightening Torques
- Checking, Disassembling and Servicing

Regarding the servicing of Common Rail System (CRS), refer to "DIAGNOSIS MANUAL" (9Y111-01920).

Regarding the servicing of Diesel Particulate Filter (DPF), refer to "DIESEL PARTICULATE FILTER HANDLING MANUAL" (9Y111-08130).

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

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

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

**August, 2012**

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# **I INFORMATION**

# INFORMATION

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- 5. DIMENSIONS ..... I-28

# 1. SAFETY FIRST

## SAFETY FIRST

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

### DANGER

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

### WARNING

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

### CAUTION

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

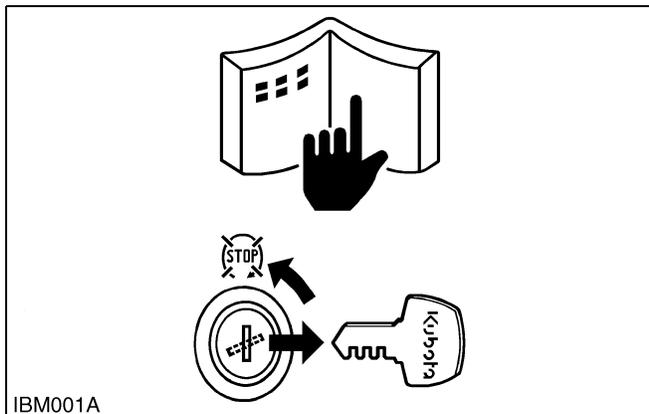
### ■ IMPORTANT

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

### ■ NOTE

- Gives helpful information.

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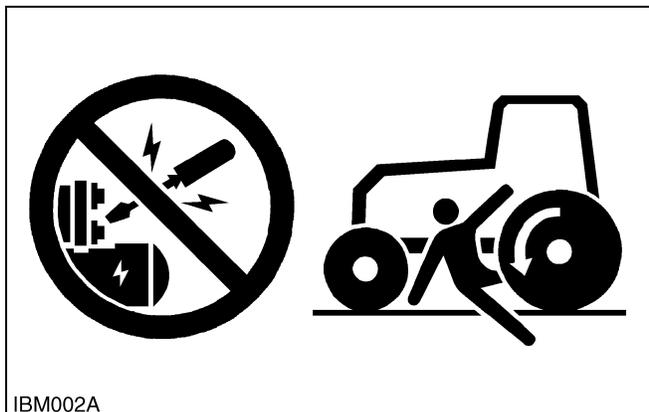


IBM001A

### BEFORE YOU START SERVICE

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a stable and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a "DO NOT OPERATE" tag in the operator station.

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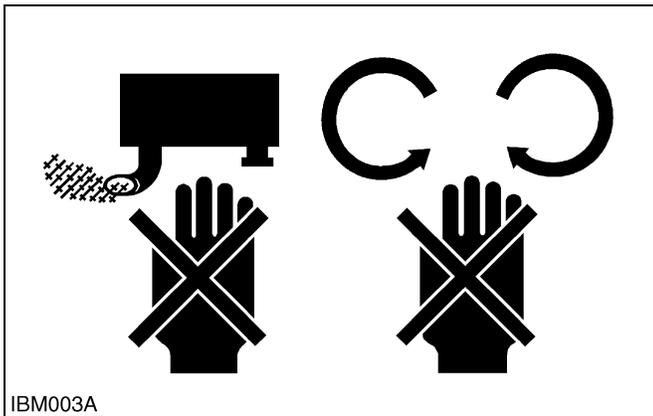


IBM002A

### START SAFELY

- Do not do the procedures below when you start the engine.
  - short across starter terminals
  - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Do not start the engine when you stay on the ground. Start the engine only from operator's seat.

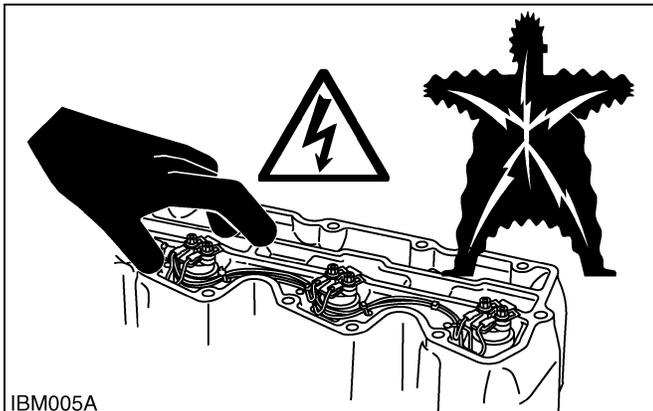
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IBM003A



IBM004A



IBM005A



9Y1200165INI019A

## OPERATE SAFELY

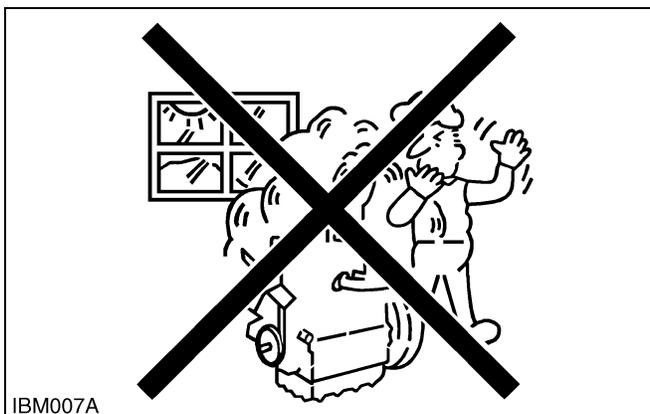
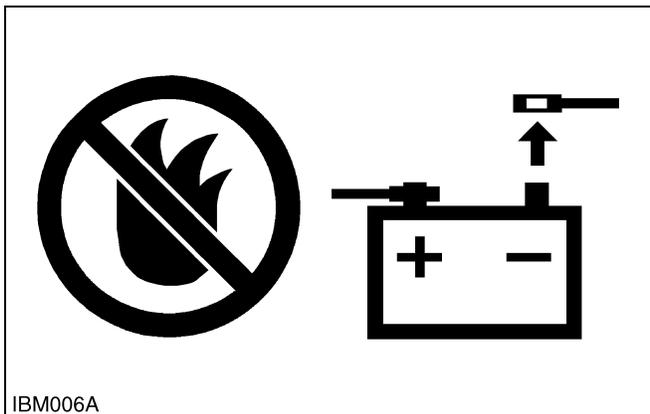
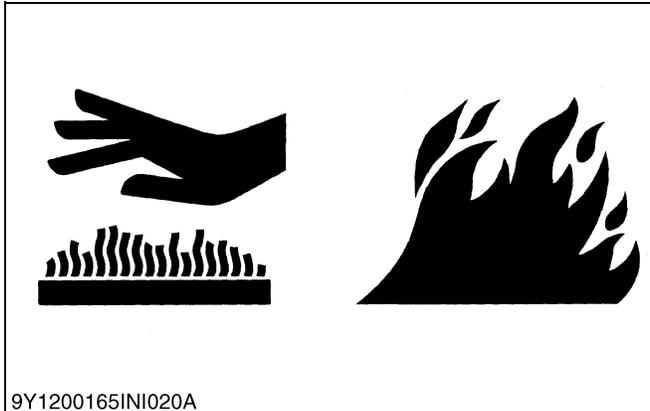
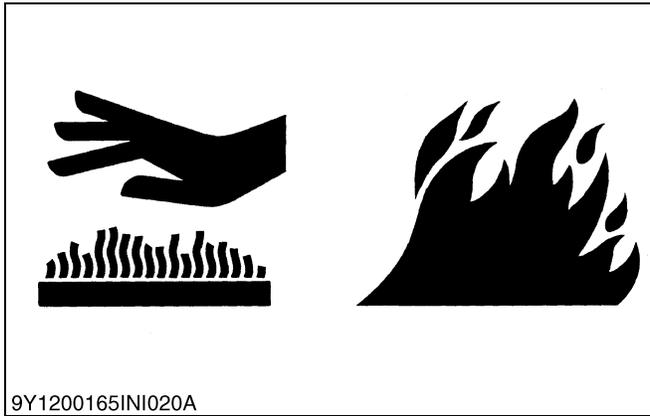
- Do not use the machine after you consume alcohol or medication or when you are tired.
- Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not operate below the machine that only a jack holds. Always use a safety stand to hold the machine.
- Do not touch the hot parts or parts that turn when the engine operates.
- Do not remove the radiator cap when the engine operates, or immediately after it stops. If not, hot water can spout out from the radiator. Only remove the radiator cap when it is at a sufficiently low temperature to touch with bare hands. Slowly loosen the cap to release the pressure before you remove it fully.
- Released fluid (fuel or hydraulic oil) under pressure can cause damage to the skin and cause serious injury. Release the pressure before you disconnect hydraulic or fuel lines. Tighten all connections before you apply the pressure.
- Do not open a fuel system under high pressure. The fluid under high pressure that stays in fuel lines can cause serious injury. Do not disconnect or repair the fuel lines, sensors, or any other components between the fuel pump and injectors on engines with a common rail fuel system under high pressure.
- Put on an applicable ear protective device (earmuffs or earplugs) to prevent injury against loud noises.
- Be careful about electric shock. The engine generates a high voltage of more than DC100 V in the ECU and is applied to the injector.

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## PROTECT AGAINST HIGH PRESSURE SPRAY

- Spray from high pressure nozzles can penetrate the skin and cause serious injury. Keep spray from contacting hands or body.
- If an accident occurs, see a doctor immediately. Any high pressure spray injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

9Y1210651INI0014US0



### AVOID HOT EXHAUST

- Servicing machine or attachments with engine running can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.
- Exhaust parts and streams become very hot during operation. Exhaust gases and components reach temperatures hot enough to burn people, ignite, or melt common materials.

9Y1210651INI0015US0

### EXHAUST FILTER CLEANING

- Servicing machine or attachments during exhaust filter cleaning can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.
- During auto or manual/stationary exhaust filter cleaning operations, the engine will run at elevated idle and hot temperatures for an extended period of time. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite, or melt common materials.

9Y1210651INI0016US0

### PREVENT A FIRE

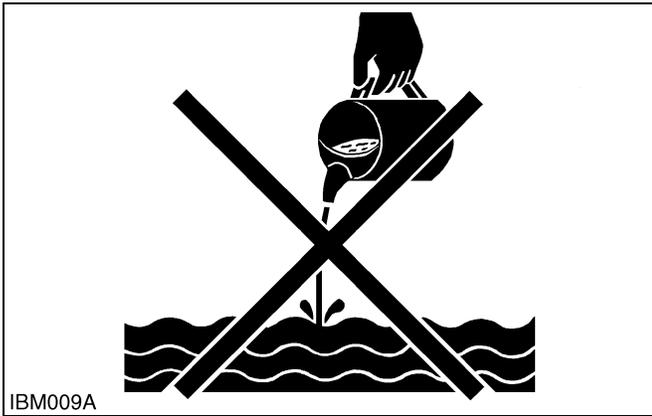
- Fuel is very flammable and explosive under some conditions. Do not smoke or let flames or sparks in your work area.
- To prevent sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- The battery gas can cause an explosion. Keep the sparks and open flame away from the top of battery, especially when you charge the battery.
- Make sure that you do not spill fuel on the engine.

WSM000001INI0005US1

### KEEP A GOOD AIRFLOW IN THE WORK AREA

- If the engine is in operation, make sure that the area has good airflow. Do not operate the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.

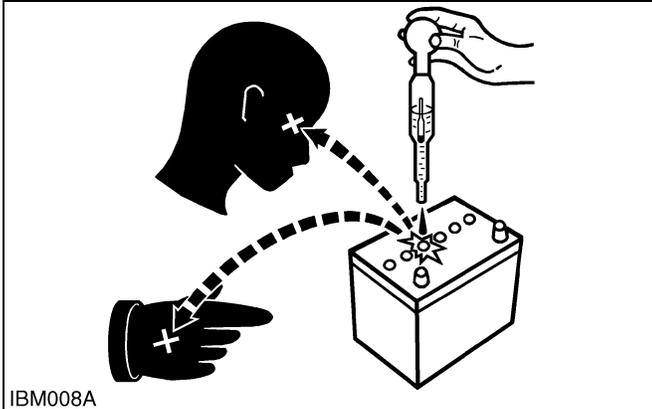
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### **DISCARD FLUIDS CORRECTLY**

- Do not discard fluids on the ground, down the drain, into a stream, pond, or lake. Obey related environmental protection regulations when you discard oil, fuel, coolant, electrolyte and other dangerous waste.

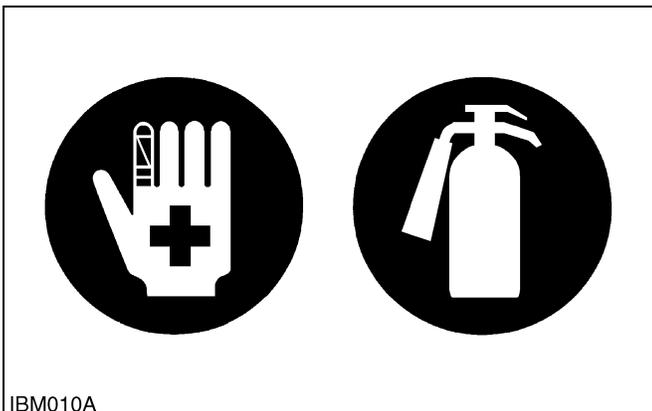
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### **PREVENT ACID BURNS**

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

WSM000001INI0008US1



### **PREPARE FOR EMERGENCIES**

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

WSM000001INI0009US1

# 2. SAFETY DECALS

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

WSM000001INI0013US0

## ROPS Model

(1) Part No. 6C040-4742-2

**CAUTION**

**TO AVOID PERSONAL INJURY:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

1AGAIAZAP109A

(4) Part No. TC420-4956-1

Diesel fuel only
No fire




**ULTRA LOW SULFUR DIESEL FUEL ONLY**

1AGAIDHAP154E

(2) Part No. 3A111-9848-2

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

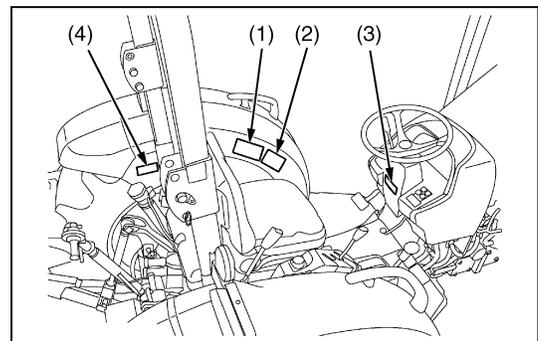
1AGAIDCAP066E

(3) Part No. 3F240-9857-1

**WARNING**

To avoid free wheeling when shifting the shuttle lever while on a slope: Stop completely by using the brake and by depressing the clutch pedal. Start off after selecting shuttle direction by releasing the clutch pedal.

1AGAIBDAP039A



9Y1210686ICI001US

9Y1210686INI0001US0

(1) Part No. 3A111-9801-1

	<p><b>⚠ WARNING</b></p> <p><b>TO Avoid Serious Crushing Injuries or Death. Do not ride or stand on the step during operation. Riding or standing there could result in being crushed under the rear tire due to slippage or the step fracturing or displacing due to unintended loading.</b></p> 
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1AGAIDHAP099A

(2) Part No. 6C150-4743-1

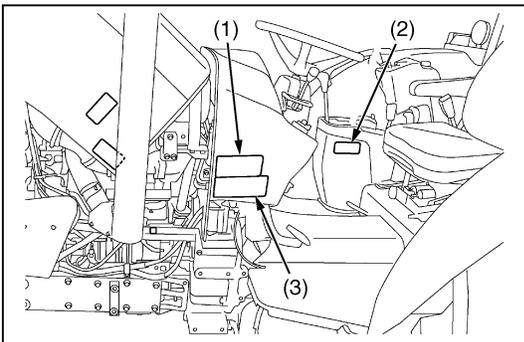
<p><b>⚠ WARNING</b></p>	<p><b>BEFORE DISMOUNTING TRACTOR:</b></p> <ol style="list-style-type: none"> <li><b>1. ALWAYS SET PARKING BRAKE.</b> Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.</li> <li><b>2. PARK ON LEVEL GROUND WHENEVER POSSIBLE.</b> If parking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

1AGAIBDAP040E

(3) Part No. TA040-4965-2

	<p><b>⚠ DANGER</b></p> <p><b>TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.</b></p> <ol style="list-style-type: none"> <li>1. Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.</li> <li>2. Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.</li> </ol>
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1AGAIAZAP009A



9Y1210686ICI002US

9Y1210686INI0002US0

(1) Part No. 3A111-9554-1

**⚠ WARNING**

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

**⚠ CAUTION**

**TO AVOID INJURY WHEN RAISING OR FOLDING ROPS:**

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

1AGAIAZAP076A

(2) Part No. 3P305-9856-1

**⚠ CAUTION**

**TO AVOID INJURY FROM SEPARATION:**

**DO NOT EXTEND LIFT ROD BEYOND THE GROOVE ON THE THREADED ROD.**



1AGAICVAP046E

(3) Part No. TA040-4959-3

**⚠ WARNING**

**TO AVOID PERSONAL INJURY.**



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

1AGAIAZAP116A

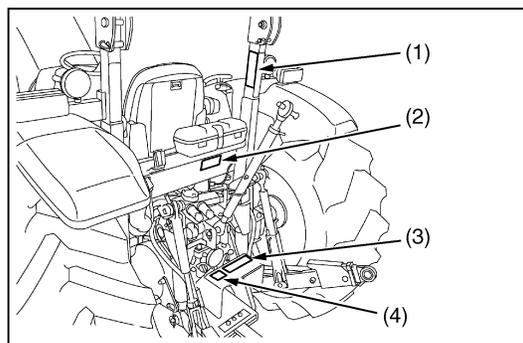
(4) Part No. TA040-4935-1

**⚠ WARNING**

**TO AVOID PERSONAL INJURY:**

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

1AGAIAZAP056A



9Y1210686ICI003US

9Y1210686INI0003US0

- (1) Part No. 6C090-4958-2  
Do not get your hands close to engine fan and fan belt.



1AGAIAZAP110A

- (4) Part No. 3Y205-9892-1

**! DANGER/POISON**

<p><b>SHIELD EYES. EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.</b></p>	<p><b>NO SPARKS, FLAMES, SMOKING, SEVERE BURNS.</b></p>	<p><b>SULFURIC ACID CAN CAUSE BLINDNESS OR INJURY.</b></p>
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**KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY.**

**FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.**

**PROPOSITION 65 WARNING**  
BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM. WASH HANDS AFTER HANDLING.

<b>105E41R 12V</b>	
AMP. HR (5HR)	80
AMP. HR (20HR)	100
RESERVE CAPACITY (MIN)	160
BCI CCA	900
EN CCA	800

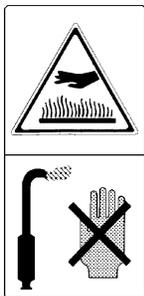
S.O.C. INDICATOR

Pb

DK 85330

1AGAIJHAP083A

- (2) Part No. 32310-4958-1  
Do not touch hot surface like muffler, etc.



1AGAIAZAP071A

- (3) Part No. K3512-4719-1  
Do not touch hot surface like muffler, etc.



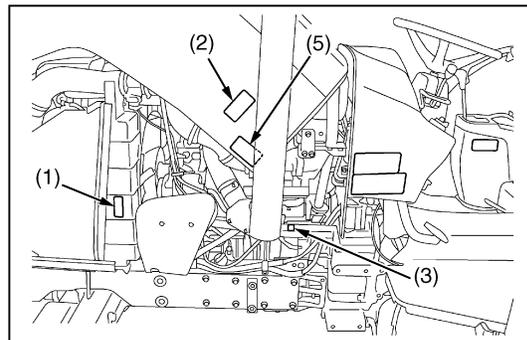
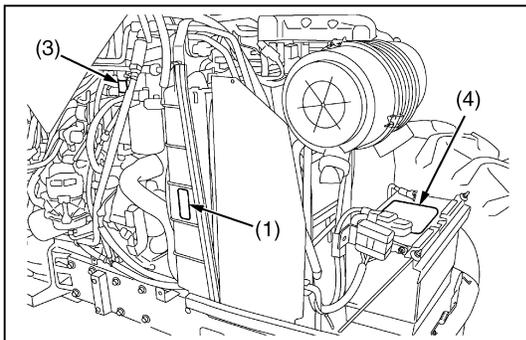
1BDABANAP080A

- (5) Part No. 3C151-9861-1

**! CAUTION**

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

1AGAIJHAP084A



**ROPS (Low Profile) Model**

- (1) Part No. 6C090-4958-2  
Do not get your hands close to engine fan and fan belt.



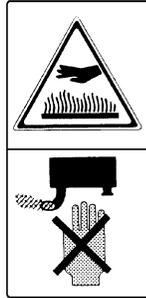
1AGAIAZAP110A

- (2) Part No. K3512-4719-1  
Do not touch hot surface like muffler, etc.



1BDABANAP080A

- (3) Part No. TA040-4958-1  
Do not touch hot surface like muffler, etc.



- (4) Part No. TA040-4965-2



**⚠ DANGER**

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

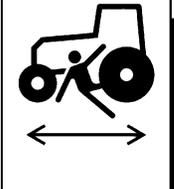
1. Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.

2. Start engine only from operator's seat with transmission and PTO OFF.

Never start engine while standing on the ground.

1AGAIAZAP009A

- (5) Part No. 3A111-9801-1



**⚠ WARNING**

**TO Avoid Serious Crushing Injuries or Death.**

Do not ride or stand on the step during operation. Riding or standing there could result in being crushed under the rear tire due to slippage or the step fracturing or displacing due to unintended loading.



1AGAIDHAP099A

- (6) Part No. 3F240-9857-1

**⚠ WARNING**

**To avoid free wheeling when shifting the shuttle lever while on a slope: Stop completely by using the brake and by depressing the clutch pedal. Start off after selecting shuttle direction by releasing the clutch pedal.**

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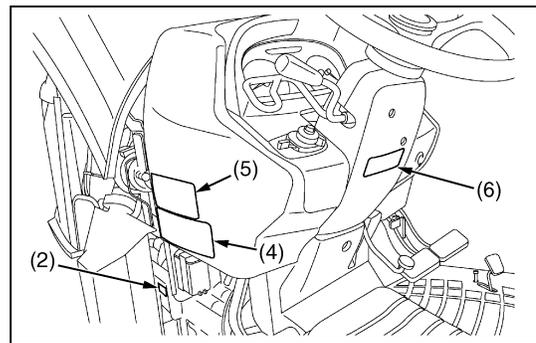
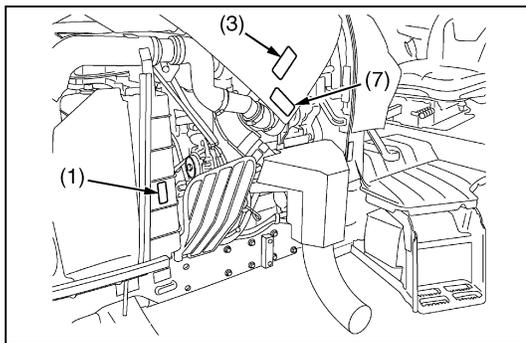
- (7) Part No. 3C151-9861-1

**⚠ CAUTION**

**TO AVOID PERSONAL INJURY:**

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

1AGAIJHAP084A



(1) Part No. 6C040-4742-2

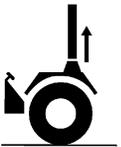
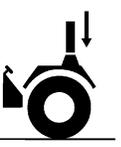
**⚠ CAUTION**

**TO AVOID PERSONAL INJURY:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

1AGAIAZAP109A

(2) Part No. 3A293-9848-1

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

1AGAOAPAP004A

(3) Part No. TC420-4956-1

Diesel fuel only      No fire

	
<p><b>ULTRA LOW SULFUR DIESEL FUEL ONLY</b></p>	

1AGAIHAP154E

(4) Part No. 3P305-9856-1

**⚠ CAUTION**

**TO AVOID INJURY FROM SEPARATION:**

GROOVE



LH

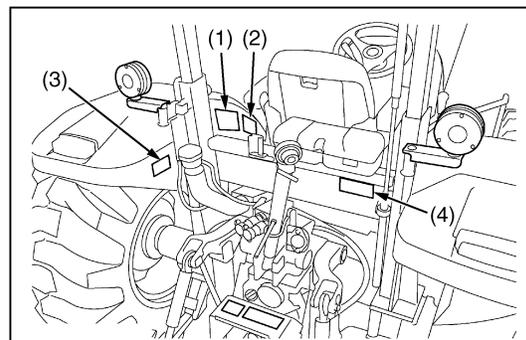
**DO NOT EXTEND LIFT ROD BEYOND THE GROOVE ON THE THREADED ROD.**

GROOVE



RH

1AGAIKVAP046E



9Y1210686IC1011US

9Y1210686INI0011US0

(1) Part No. 6C150-4743-1

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

1AGAIBDAP040E

(4) Part No. 3A294-9554-1

 <b>WARNING</b>	<p>Never modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.</p>
 <b>CAUTION</b>	<p><b>TO AVOID INJURY WHEN EXTENDING OR RETRACTING ROPS:</b></p> <ul style="list-style-type: none"> <li>• Set parking brake and stop engine.</li> <li>• Remove any obstruction that may prevent extending or retracting of the ROPS.</li> <li>• Do not allow any bystanders.</li> <li>• Always perform function from a operator's seat.</li> <li>• Hold the top of the ROPS securely when extending or retracting.</li> <li>• Make sure all pins are installed and locked.</li> </ul>

1AGAOAAP077A

(2) Part No. TA040-4935-1

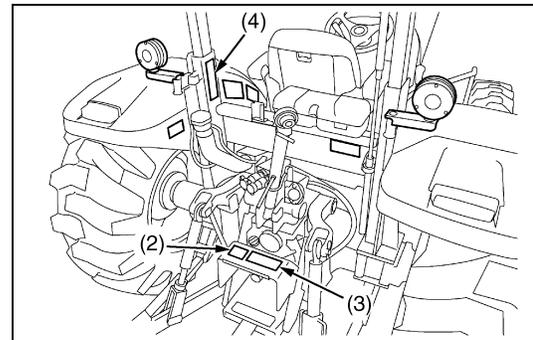
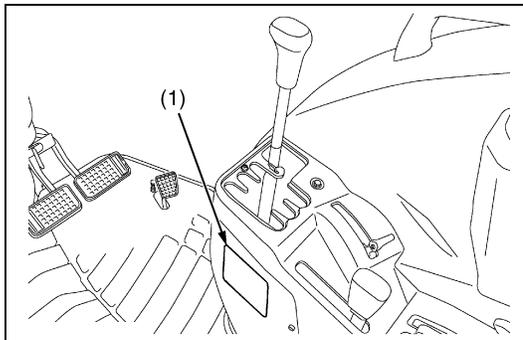
 <b>WARNING</b>
<p><b>TO AVOID PERSONAL INJURY:</b></p> <ol style="list-style-type: none"> <li>1. Attach pulled or towed loads to the drawbar only.</li> <li>2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.</li> </ol>

1AGAIAZAP056A

(3) Part No. TA040-4959-3

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

1AGAIAZAP116A



9Y1210686ICI012US

9Y1210686INI0012US0

- (1) Part No. K3512-4719-1  
Do not touch hot surface like muffler, etc.



1BDABANAP080A

- (2) Part No. 6C090-4958-1  
Do not get your hands close to engine fan and fan belt.



1AGAIAZAP110A

- (3) Part No. 3Y205-9892-1

**⚠ DANGER/POISON**

SHIELD EYES. EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.	NO SPARKS FLAMES SMOKING	SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.
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KEEP OUT OF REACH OF CHILDREN.  
DO NOT TIP. DO NOT OPEN BATTERY.

**FLUSH EYES IMMEDIATELY WITH WATER.**      **GET MEDICAL HELP FAST.**

**PROPOSITION 65 WARNING**  
BATTERY POSTS, TERMINALS,  
AND RELATED ACCESSORIES  
CONTAIN LEAD AND LEAD COMPOUNDS,  
CHEMICALS KNOWN  
TO THE STATE OF CALIFORNIA  
TO CAUSE CANCER AND  
REPRODUCTIVE HARM.  
WASH HANDS AFTER HANDLING.

DK 85330

<b>105E41R 12V</b>	<b>80</b>
AMP. HR (5HR)	80
AMP. HR (20HR)	100
RESERVE CAPACITY (MIN)	160
BCI CCA	900
EN CCA	800

S.O.C  
INDICATOR

CH

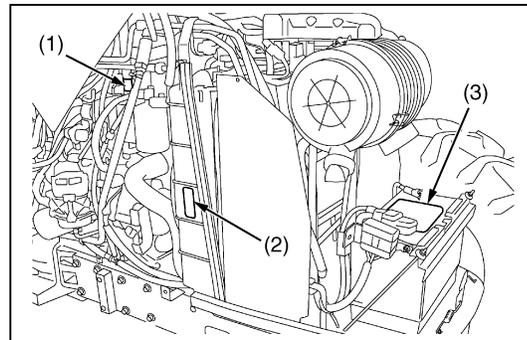
CHARGE

REPLACE

BATTERY

**Pb**

1AGAIJHAP083A



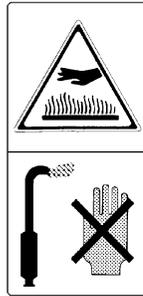
**CABIN Model**

- (1) Part No. 6C090-4958-2  
Do not get your hands close to engine fan and fan belt.



1AGAIAZAP110A

- (2) Part No. 32310-4958-1  
Do not touch hot surface like muffler, etc.



1AGAIAZAP071A

- (3) Part No. K3512-4719-1  
Do not touch hot surface like muffler, etc.



1BDABANAP080A

- (4) Part No. TC420-4956-1

Diesel fuel only

No fire



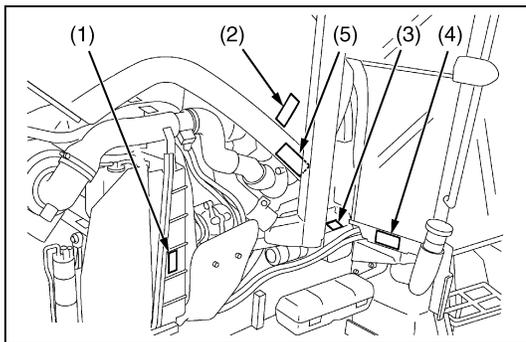
1AGAIHAP154E

- (5) Part No. 3C151-9861-1

**CAUTION**

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

1AGAIJHAP084A



9Y1210686ICI005US

9Y1210686INI0005US0

- (1) Part No. K3512-4719-1  
Do not touch hot surface like muffler, etc.



1BDABANAP080A

- (3) Part No. 3A851-7295-1

<b>CAUTION REFRIGERANT UNDER HIGH PRESSURE</b>	<b>ATTENTION REFRIGERANT SOUS HAUTE PRESSION</b>
Improper service methods may cause injury. Air conditioning system should be serviced by qualified personnel. See Repair Manual.	Un entretien incorrect peut provoquer des blessures. Le système de climatisation doit être entretenu par une personne qualifiée. Voir le manuel de réparation.
Refrigerant (HFC134a Max. 0.95kg (2.09lbs.) USE ONLY Min. 0.85kg (1.87lbs.))	Refrigerant (HFC134a Max. 0.95kg (2.09lbs.) UNIQUEMENT Min. 0.85kg (1.87lbs.))
Oil (ND-OIL 8 SAE J-639 OR EQUIVALENT)	Huile (ND-OIL 8 SAE J-639 OR EQUIVALENT)
MFD. BY DENSO CORPORATION JAPAN.	FABRIQUE PAR DENSO CORPORATION JAPON.

1AGAIDGAP074A

- (2) Part No. 6C090-4958-2  
Do not get your hands close to engine fan and fan belt.



1AGAIAZAP110A

- (4) Part No. 3Y205-9892-1

**! DANGER/POISON**

<p><b>SHIELD EYES. EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.</b></p>	<p><b>NO SPARKS, FLAMES OR SMOKING.</b></p>	<p><b>SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.</b></p>
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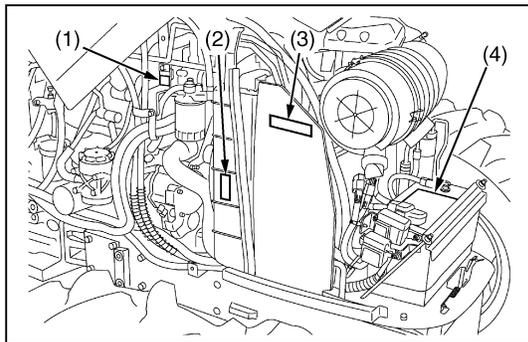
**KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY.**

**FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.**

**PROPOSITION 65 WARNING**  
BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM. WASH HANDS AFTER HANDLING.

DK 85330

1AGAIJHAP083A



9Y1210686ICI006US

9Y1210686INI0006US0

(1) Part No. 3F240-9857-1

**⚠ WARNING**

To avoid free wheeling when shifting the shuttle lever while on a slope: Stop completely by using the brake and by depressing the clutch pedal. Start off after selecting shuttle direction by releasing the clutch pedal.

1AGAIBDAP039A

(2) Part No. 3C581-9858-1

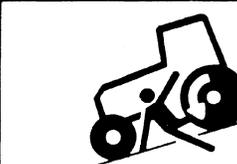
**⚠ DANGER**

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

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

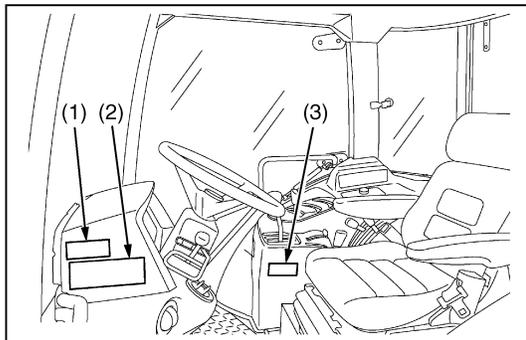
1AGAIAZAP009A

(3) Part No. 6C150-4743-1

**⚠ WARNING****BEFORE DISMOUNTING TRACTOR:**

1. ALWAYS SET PARKING BRAKE.  
Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
2. PARK ON LEVEL GROUND WHENEVER POSSIBLE.  
If parking on a slope, position tractor across the slope.
3. LOWER ALL IMPLEMENTS TO THE GROUND.
4. STOP THE ENGINE.

1AGAIBDAP040A



9Y1210686ICI007US

9Y1210686INI0007US0

(1) Part No. 3F240-9836-2

**CAUTION**

**TO AVOID PERSONAL INJURY:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from tractor and the PTO is off.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

1AGAICHAP113A

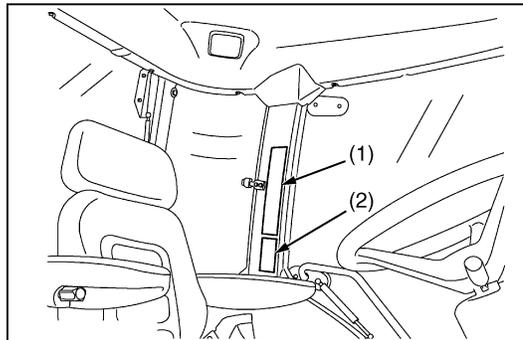
(2) Part No. TA040-4902-1

**WARNING**



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

1AGAMAOAP078A



9Y1210686ICI008US

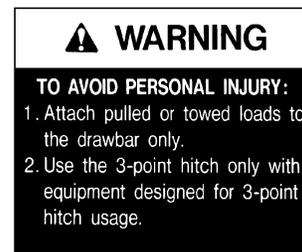
9Y1210686INI0008US0

(1) Part No. 3P305-9856-1



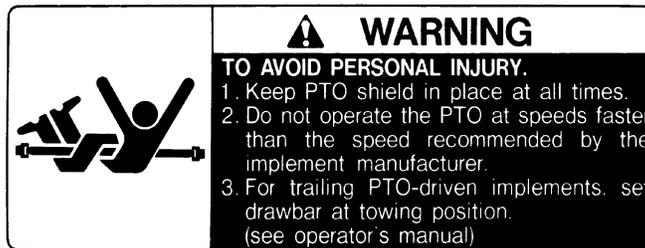
1AGAICVAP046E

(2) Part No. TA040-4935-1

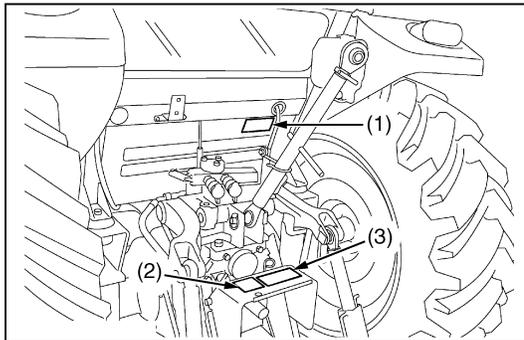


1AGAIAZAP056A

(3) Part No. TA040-4959-3



1AGAIAZAP116A



9Y1210686ICI009US

9Y1210686INI0009US0

**CARE OF DANGER, WARNING AND CAUTION LABELS**

1. Keep danger, warning and caution labels clean and free from obstructing material.
2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing danger, warning and caution labels with new labels.
4. If a component with danger, warning and caution label(s) affixed is replaced with new part, make sure new label(s) is (are) attached in the same location(s) as the replace component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

9Y1210686INI0014US0

### 3. SPECIFICATIONS

Model		M8560		M9960		
		2WD	4WD	2WD	4WD	
Engine	Model	V3800-CR-TE4		V3800-CR-TIE4		
	Type	4 cylinder in-line, Common Rail System, direct injection		4 cylinder in-line, Common Rail System, direct injection with inter cooler		
	Number of cylinders	4				
	Total displacement	3769 cm <sup>3</sup> (230 cu.in.)				
	Bore and stroke	100 × 120 mm (3.9 × 4.7 in.)				
	Rated revolution	ROPS	2400 min <sup>-1</sup> (rpm)			
		CABIN	2600 min <sup>-1</sup> (rpm)			
	Low idling revolution	800 to 850 min <sup>-1</sup> (rpm)				
	Net power *1	63.8 kW (85.5 HP)		74.6 kW (100 HP)		
	PTO power *1 (factory observed)	56.7 kW (76 HP)		66.4 kW (89 HP)		
	Maximum torque	293 N·m (29.9 kgf·m, 216 lbf·ft) / 1400 to 1600 min <sup>-1</sup> (rpm)		342 N·m (34.9 kgf·m, 252 lbf·ft) / 1400 to 1600 min <sup>-1</sup> (rpm)		
	Battery capacity	12V, RC: 160 min, CCA 900A				
	Fuel tank capacity	ROPS	90.0 L (23.8 U.S.gals, 19.8 Imp.gals)			
		CABIN	110 L (29.1 U.S.gals, 24.2 Imp.gals)			
	Engine oil capacity	10.7 L (11.3 U.S.qts, 9.41 Imp.qts)				
Coolant capacity	9.0 L (9.5 U.S.qts, 7.9 Imp.qts)					
Dimensions	Overall length	3885 mm (153 in.)	3760 mm (148 in.)	3885 mm (153 in.)	3760 mm (148 in.)	
	Overall width (minimum tread)	ROPS	1960 mm (77 in.)	1990 mm (78 in.)	1990 mm (78 in.)	2010 mm (79 in.)
		ROPS (Low Profile)	–	–	–	1970 mm (77.6 in.)
		CABIN	1960 mm (77 in.)	1990 mm (78 in.)	1990 mm (78 in.)	2010 mm (79 in.)
	Overall height	ROPS	2510 mm (99 in.)		2535 mm (100 in.)	
		ROPS (Low Profile)	–	–	–	2300 mm (90.6 in.)
		CABIN	2545 mm (100 in.)		2570 mm (101 in.)	
	Wheel base	2250 mm (88.6 in.)				
	Tread (Front)	1440 to 2040 mm (56.7 to 80.3 in.)	1520, 1620 mm (59.8, 63.8 in.)	1440 to 2040 mm (56.7 to 80.3 in.)	1520, 1620 mm (59.8, 63.8 in.)	
	Tread (Rear)	ROPS	1520 to 1920 mm (59.8 to 75.6 in.)			
		ROPS (Low Profile)	–	–	–	1500 to 1900 mm (59.2 to 74.8 in.)
		CABIN	1520 to 1920 mm (59.8 to 75.6 in.)			
	Minimum ground clearance	ROPS	425 mm (16.7 in.) (Drawbar bracket)		450 mm (17.7 in.) (Drawbar bracket)	
		ROPS (Low Profile)	–	–	–	330 mm (13.0 in.) (Drawbar bracket)
		CABIN	425 mm (16.7 in.) (Drawbar bracket)		450 mm (17.7 in.) (Drawbar bracket)	
Weight	ROPS	2450 kg (5400 lbs)	2640 kg (5820 lbs)	2510 kg (5535 lbs)	2700 kg (5950 lbs)	
	ROPS (Low Profile)	–	–	–	2610 kg (5750 lbs)	
	CABIN	2840 kg (6260 lbs)	3030 kg (6680 lbs)	2900 kg (6395 lbs)	3090 kg (6810 lbs)	
Traveling system	Standard tire size (Front)	ROPS	7.5-18	11.2-24	7.5-18	12.4-24
		ROPS (Low Profile)	–	–	–	9.5-20
		CABIN	7.5-18	11.2-24	7.5-18	12.4-24
	Standard tire size (Rear)	ROPS	16.9-30	16.9-30	18.4-30	18.4-30
		ROPS (Low Profile)	–	–	–	16.9-24
		CABIN	16.9-30	16.9-30	18.4-30	18.4-30
	Clutch	Multiple wet disk				
	Steering	Hydraulic Power Steering				
	Braking system	Hydraulic wet disk				
	Differential	Bevel gears with differential lock (Rear)				

Model		M8560		M9960		
		2WD	4WD	2WD	4WD	
Hydraulic unit	Hydraulic control system		Position, draft (top link sensing) and mix control			
	Pump capacity	ROPS	60.0 L/min.(15.9 U.S.gals/min, 13.2 Imp.gals/min)			
		CABIN	64.3 L/min.(17.0 U.S.gals/min, 14.1 Imp.gals/min)			
	Three point hitch		Category 2			
	Max. lifting force	At lifting points *3	3200 kg (7055 lbs), 3900 kg (8600 lbs) with Hydraulic High Capacity Lift Cylinders (F12 / R12 model: standard, F8 / R8 model: option)			
		24 in. behind lifting point *3	2100 kg (4630 lbs), 3300 kg (7275 lbs) with Hydraulic High Capacity Lift Cylinders (F12 / R12 model: standard, F8 / R8 model: option)			
	Remote hydraulic control		1 standard (2nd, 3rd and flow control valve optional)			
	System pressure		19.6 MPa (200 kgf/cm <sup>2</sup> , 2840 psi)			
Traction system		Swinging drawbar, adjustable in direction				
PTO	Live PTO (Independent)	Direction of turning	Clockwise, viewed from tractor rear			
		PTO/Engine speed	6 spline: 540 min <sup>-1</sup> (rpm) / 2205 min <sup>-1</sup> (rpm)			

■ **NOTE**

- **The company reserves the right to change the specifications without notice.**
- **\*1 : Manufacturer's estimate**
- **\*2 : Cast iron disks available for wheels. (Except Low Profile Model)**
- **\*3 : At lower link end with links horizontal.**

9Y1210686INI0015US0

## 4. TRAVELING SPEEDS

**ROPS Model (without Low Profile Model)**

(At rated engine rpm)

Model			M8560 / M9960			
			F8/R8 Model		F12/R12 Model	
Tire size (Rear)			18.4-30			
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph	km/h	mph
Forward	CREEP (option)	1	0.35	0.22	0.36	0.23
		2	0.54	0.34	0.49	0.31
		3	0.78	0.49	0.64	0.40
		4	1.11	0.69	0.82	0.51
		5	–	–	1.01	0.63
		6	–	–	1.45	0.91
	L	1	2.5	1.5	2.5	1.5
		2	3.7	2.3	3.4	2.1
		3	5.4	3.4	4.3	2.7
		4	7.7	4.8	5.6	3.5
		5	–	–	6.9	4.3
		6	–	–	9.9	9.9
	H	1	9.5	5.9	10.8	6.8
		2	14.4	9.0	14.8	9.3
		3	20.7	13.0	19.1	11.9
		4	29.7	18.6	24.7	15.4
		5	–	–	30.5	19.0
		6	–	–	37.8	23.6

The company reserves the right to change the specifications without notice

(At rated engine rpm)

Model			M8560 / M9960			
			F8/R8 Model		F12/R12 Model	
Tire size (Rear)			18.4-30			
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph	km/h	mph
Reverse	CREEP (option)	1	0.35	0.22	0.36	0.22
		2	0.53	0.33	0.49	0.31
		3	0.77	0.48	0.63	0.40
		4	1.10	0.69	0.82	0.51
		5	–	–	1.01	0.63
		6	–	–	1.44	0.90
	L	1	2.4	1.5	2.4	1.5
		2	3.7	2.3	3.3	2.1
		3	5.3	3.3	4.3	2.7
		4	7.7	4.8	5.6	3.5
		5	–	–	6.9	4.3
		6	–	–	9.8	6.1
	H	1	9.4	5.9	10.8	6.7
		2	14.3	8.9	14.7	9.2
		3	20.6	12.9	19.0	11.9
		4	29.5	18.4	24.5	15.3
		5	–	–	30.3	18.9
		6	–	–	37.6	23.5

The company reserves the right to change the specifications without notice

9Y1210686INI0016US0

**ROPS Model (with Low Profile Model)**

(At rated engine rpm)

Model			M9960	
			F12/R12 Model	
Tire size (Rear)			16.9-24	
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph
Forward	CREEP (option)	1	0.31	0.19
		2	0.42	0.26
		3	0.54	0.34
		4	0.70	0.44
		5	0.86	0.54
		6	1.23	0.77
	L	1	2.1	1.3
		2	2.8	1.8
		3	3.7	2.3
		4	4.7	3.0
		5	5.9	3.7
		6	8.4	5.2
	H	1	9.2	5.8
		2	12.6	7.9
		3	16.2	10.1
		4	21.0	13.1
		5	25.9	16.2
		6	32.1	20.1

The company reserves the right to change the specifications without notice

(At rated engine rpm)

Model			M9960	
			F12/R12 Model	
Tire size (Rear)			16.9-24	
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph
Reverse	CREEP (option)	1	0.30	0.19
		2	0.42	0.26
		3	0.54	0.34
		4	0.69	0.43
		5	0.86	0.54
		6	1.23	0.77
	L	1	2.1	1.3
		2	2.8	1.8
		3	3.7	2.3
		4	4.7	2.9
		5	5.8	3.6
		6	8.3	5.2
	H	1	9.2	5.7
		2	12.5	7.8
		3	16.1	10.1
		4	20.8	13.0
		5	25.7	16.1
		6	31.9	20.0

The company reserves the right to change the specifications without notice

9Y1210686INI0017US0

**CABIN Model (without Dual Speed Type)**

(At rated engine rpm)

Model			M8560 / M9960			
			F8/R8 Model		F12/R12 Model	
Tire size (Rear)			18.4-30			
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph	km/h	mph
Forward	CREEP (option)	1	0.38	0.24	0.39	0.24
		2	0.58	0.36	0.53	0.33
		3	0.84	0.53	0.69	0.43
		4	1.2	0.75	0.89	0.56
		5	–	–	1.10	0.69
		6	–	–	1.57	0.98
	L	1	2.7	1.7	2.7	1.7
		2	4.0	2.5	3.6	2.3
		3	5.8	3.6	4.7	2.9
		4	8.3	5.2	6.1	3.8
		5	–	–	7.5	4.7
		6	–	–	10.7	6.7
	H	1	10.3	6.4	11.7	7.3
		2	15.6	9.7	16.1	10.0
		3	22.5	14.0	20.7	12.9
		4	32.2	20.1	26.7	16.7
		5	–	–	33.0	20.6
		6	–	–	37.8	23.6

The company reserves the right to change the specifications without notice

(At rated engine rpm)

Model			M8560 / M9960			
			F8/R8 Model		F12/R12 Model	
Tire size (Rear)			18.4-30			
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	mph	km/h	mph
Reverse	CREEP (option)	1	0.38	0.24	0.39	0.24
		2	0.58	0.36	0.53	0.33
		3	0.84	0.52	0.68	0.43
		4	1.2	0.75	0.88	0.55
		5	–	–	1.09	0.68
		6	–	–	1.56	0.98
	L	1	2.6	1.7	2.6	1.7
		2	4.0	2.5	3.6	2.3
		3	5.8	3.6	4.7	2.9
		4	8.3	5.2	6.0	3.8
		5	–	–	7.4	4.6
		6	–	–	10.6	6.6
	H	1	10.2	6.4	11.7	7.3
		2	15.5	9.7	16.0	10.0
		3	22.3	14.0	20.6	12.9
		4	32.0	20.0	26.6	16.6
		5	–	–	32.8	20.5
		6	–	–	37.6	23.5

The company reserves the right to change the specifications without notice

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Product: 2012 Kubota WSM M8560, M9960 Tractor Service Repair Workshop Manual  
**CABIN Model (with Dual Speed Model)**

Full Download: <https://www.arepairmanual.com/downloads/2012-kubota-wsm-m8560m9960-tractor-service-repair-workshop-manual/>

(At rated engine rpm)

Model			M9960			
			F24/R24 Model			
Tire size (Rear)			18.4-30			
Shuttle shift lever	Range gear shift lever	Main gear shift lever	Dual speed : H		Dual speed : L	
			km/h	mph	km/h	mph
Forward	CREEP (option)	1	0.39	0.24	0.33	0.20
		2	0.53	0.33	0.45	0.28
		3	0.68	0.43	0.57	0.36
		4	0.88	0.55	0.74	0.46
		5	1.09	0.68	0.92	0.57
		6	1.56	0.97	1.31	0.82
	L	1	2.6	1.6	2.2	1.4
		2	3.6	2.2	3.0	1.9
		3	4.6	2.9	3.9	2.4
		4	6.0	3.7	5.0	3.2
		5	7.4	4.6	6.2	3.9
		6	10.6	6.6	8.9	5.6
	H	1	11.6	7.3	9.8	6.1
		2	15.9	9.9	13.4	8.4
		3	20.5	12.8	17.3	10.8
		4	26.5	16.6	22.3	13.9
		5	32.7	20.4	27.5	17.2
		6	37.5	23.4	31.5	19.7

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