WSM

WORKSHOP MANUAL
TRACTOR

M6060,M7060

Kubota

KiSC issued 08, 2013 A

TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the M6060 and M7060. It contains 4 parts: **"Information"**, **"General"**, **"Mechanism"** and **"Servicing"**.

■ Information

This section primarily contains information below.

- Safety First
- Safety Decal
- Specifications
- Dimensions

■ 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". (9Y120-02440)

Regarding the servicing of Diesel Particulate Filter (DPF), refer to "DIESEL PARTICULATE FILTER HANDLING MANUAL" (9Y111-08131).

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, 2013

I INFORMATION

INFORMATION

CONTENTS

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 try 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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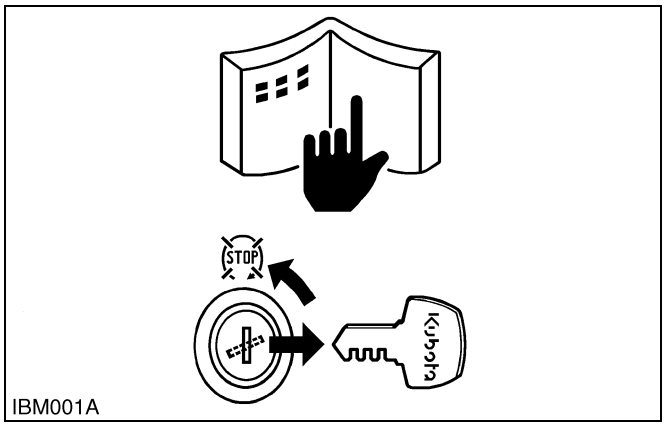

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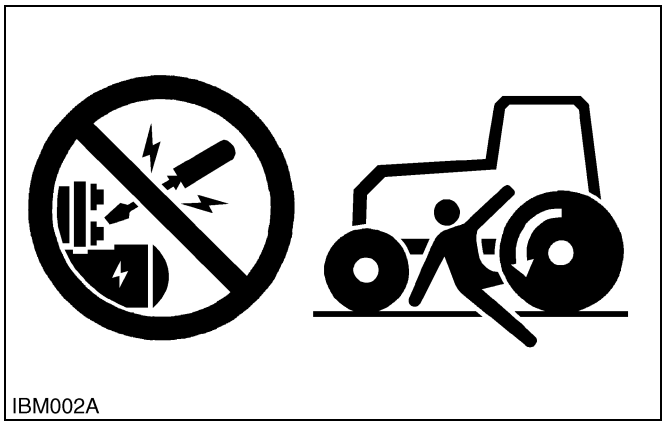
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BEFORE YOU START SERVICE

- 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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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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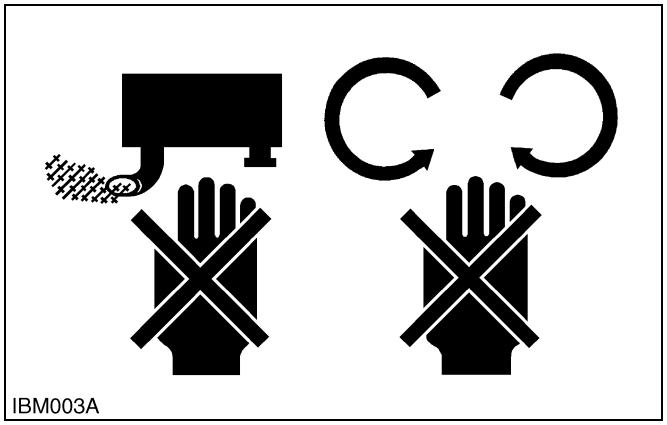
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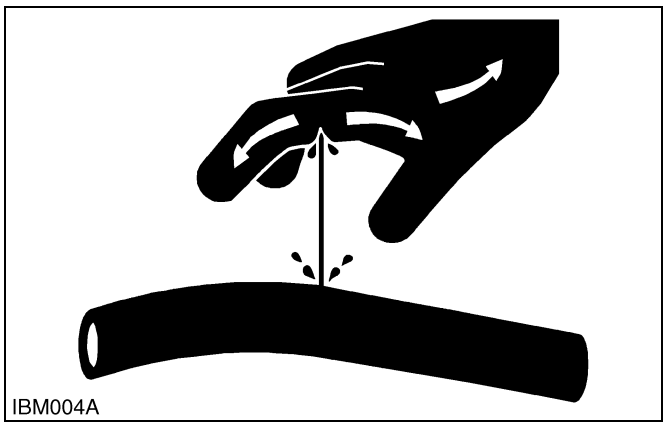
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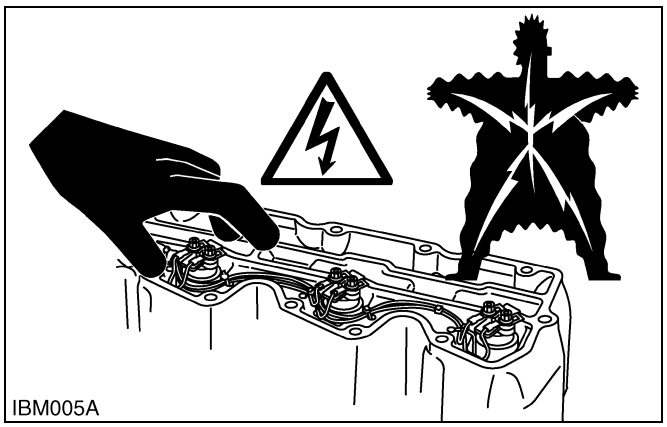
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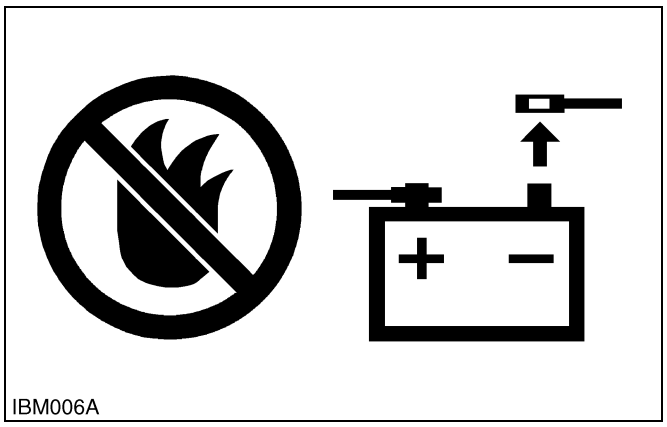
IBM006A

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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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.

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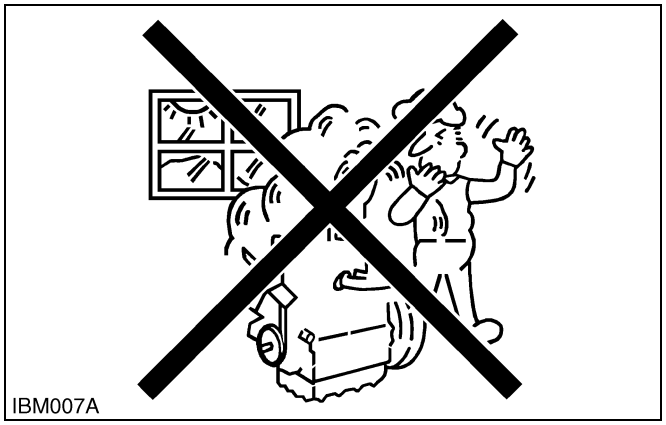
IBM007A

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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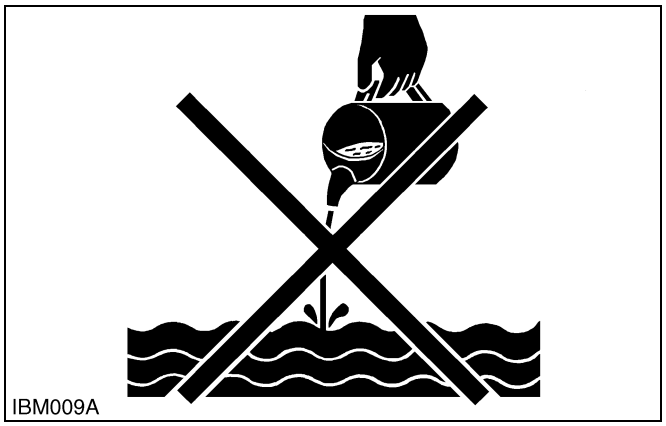
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DISCARD FLUIDS CORRECTLY

- 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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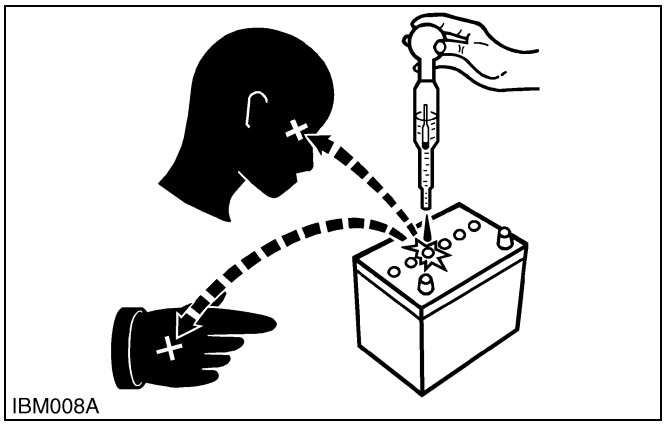
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PREVENT ACID BURNS

- 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.

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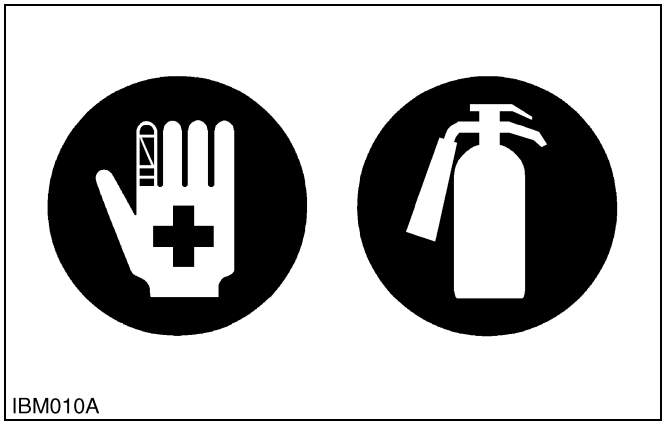

IBM010A

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.

WSM000001INI0009US0

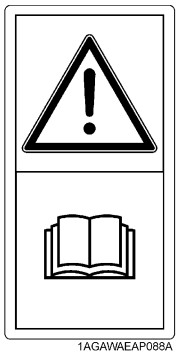
2. SAFETY DECALS

The following safety decals (pictorial safety labels) 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.

WSM000001INI0014US0

ROPS Model

(1) Part No. TD179-3491-1
Carefully read operator's manual before handling the machine.
Observe instructions and safety rules when operating.

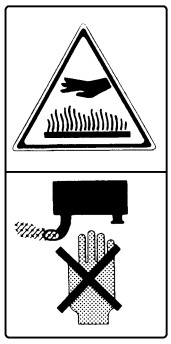


1AGAWAEAP088A

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

1AGAIAZAP110A

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



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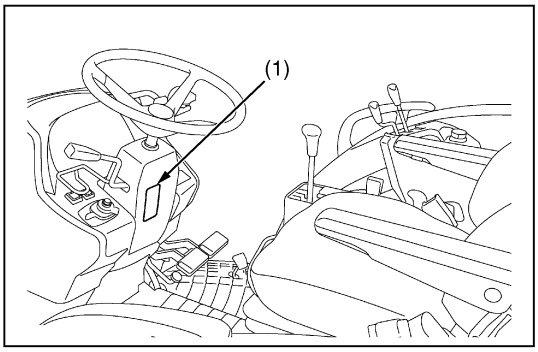
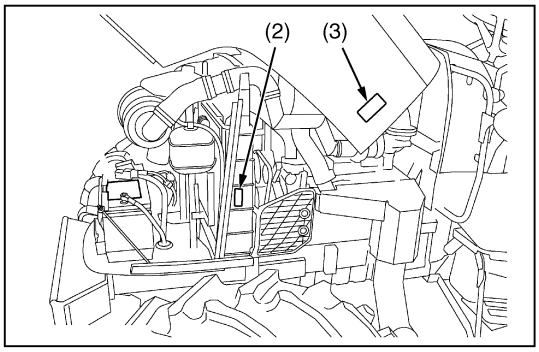
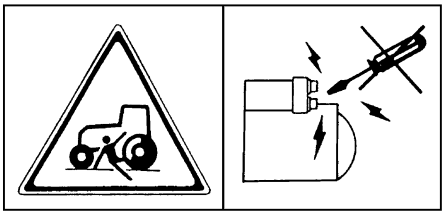




9Y1210828ICI001US

9Y1210828INI0001US0

(1) Part No. K3512-4718-1
Start engine from operator's seat only.



1BDABANAP083B

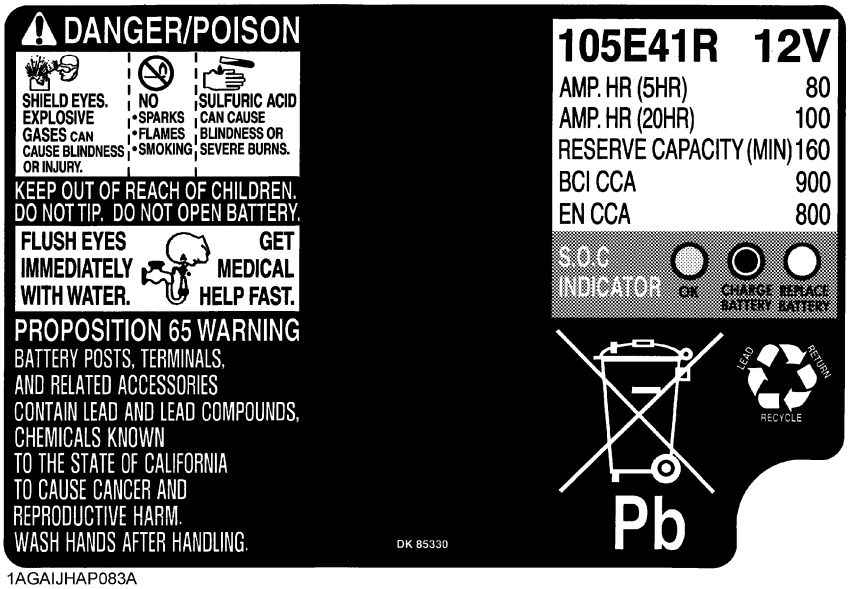
(2) Part No. K3512-4719-1
Do not touch hot surface like muffler, etc.

1BDABANAP080A

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

1AGAIAZAP110A

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



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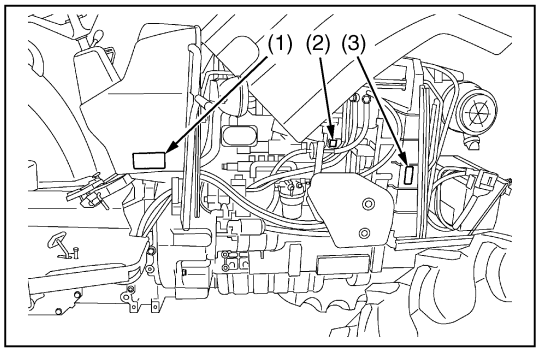

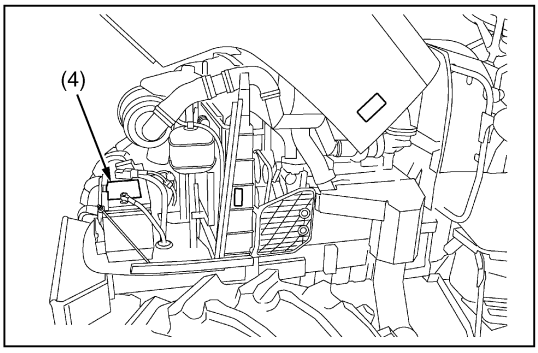

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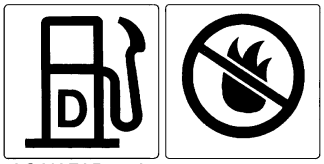
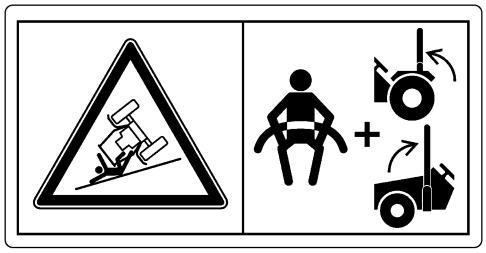
9Y1210828INI0002US0

(1) Part No. 3A481-9853-1
Diesel fuel only. No fire.



1AGAIAZAP118A

(2) Part No. TD169-9848-1
Always lock ROPS in upright position unless it has to be folded down to allow operation underneath trees or bushes.
When ROPS is locked in upright position seat belt should be used.



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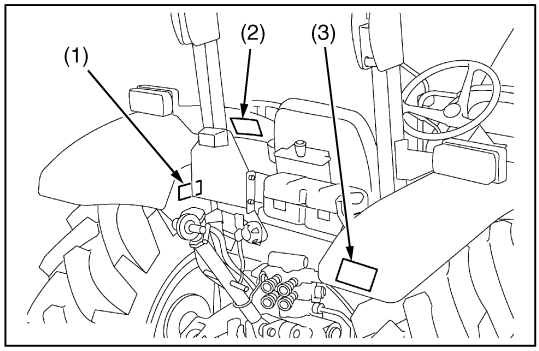
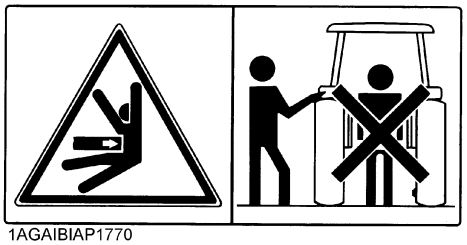


(3) Part No. 3F240-9819-1
Do not stand by IMPLEMENT or between implement and tractor while operating remote hitch switch.



1AGAIBIAP1770

9Y1210828ICI003US

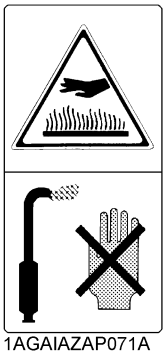
9Y1210828INI0003US0

CABIN Model

(2) 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.

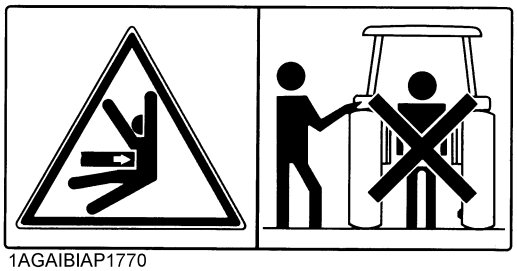


1AGAIAZAP071A

(3) Part No. 6C040-4741-2
No fire.

1AGAIAZAP104A

(4) Part No. 3F240-9819-1
Do not stand by IMPLEMENT or between implement and tractor while operating remote hitch switch.



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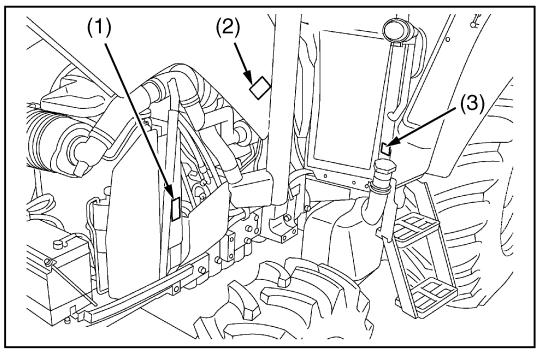
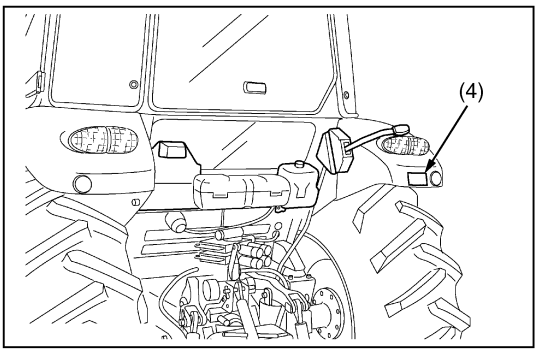




9Y1210828ICI004US

9Y1210828INI0004US0

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

1BDABANAP080A

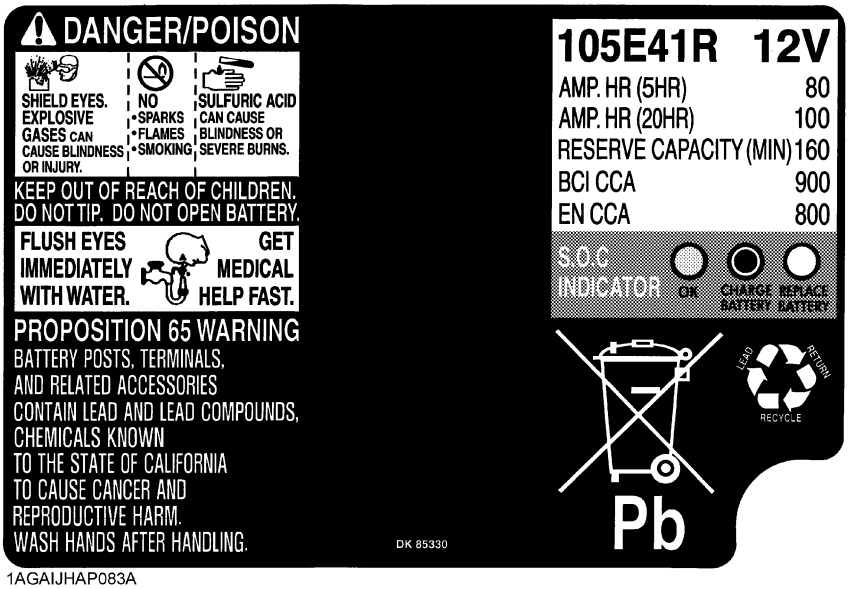
(2) Part No. 6C090-4958-2
Do not get your hands close to engine fan and fan belt.

1AGAIAZAP110A

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

1AGAIDGAP074A

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



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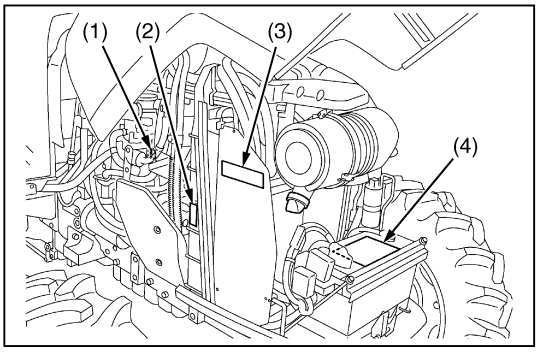

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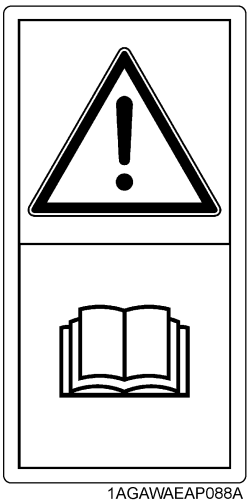
9Y1210828INI0005US0

(1) Part No. TD179-3491-1
Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.



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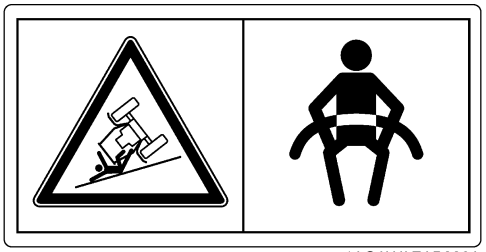
(2) Part No. TD179-4902-1
Seat belt should be used.



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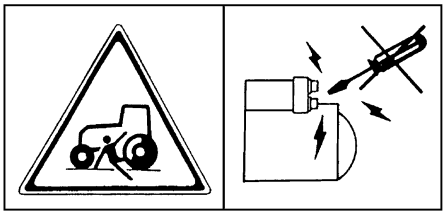
(3) Part No. K3512-4718-1
Start engine from operator's seat only.



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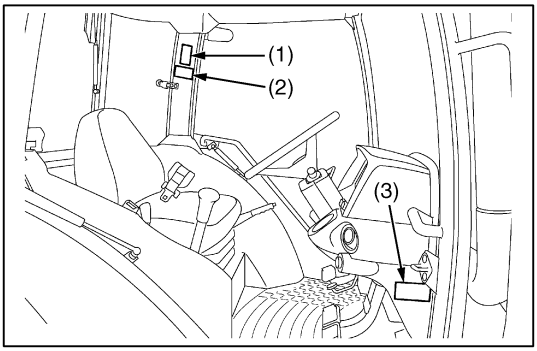


9Y1210828ICI006US

9Y1210828INI0006US0

CARE OF PICTORIAL SAFETY LABELS

1. Keep pictorial safety labels clean and free from obstructing material.
2. Clean pictorial safety labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing pictorial safety labels with new labels.
4. If a component with pictorial safety 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 pictorial safety labels by applying on a clean dry surface and pressing any bubbles to outside edge.

9Y1210828INI0010US0

3. SPECIFICATIONS

ROPS Model

Model			M6060	M7060	M6060-SPA	M7060-SPA
			4WD			
Engine	Model		V3307-CR-TE4			
	Type		4-cylinder in-line, Common Rail System, direct injection			
	Number of cylinders		4			
	Total displacement		3331 cm^3 (203 cu.in.)			
	Bore and stroke		94 × 120 mm (3.7 × 4.7 in.)			
	Rated speed		2400 min^{-1} (rpm)			
	Net power*1		47.3 kW (63.5 PS)	52.9 kW (71.9 PS)	47.3 kW (63.5 PS)	52.9 kW (71.9 PS)
	Gross power*1		49.5 kW (67.3 PS)	55.4 kW (75.3 PS)	49.5 kW (67.3 PS)	55.4 kW (75.3 PS)
	Maximum torque		230 N·m (23.5 kgf·m, 170 lbf·ft) / 1400 min^{-1} (rpm)	260 N·m (26.5 kgf·m, 192 lbf·ft) / 1400 min^{-1} (rpm)	230 N·m (23.5 kgf·m, 170 lbf·ft) / 1400 min^{-1} (rpm)	260 N·m (26.5 kgf·m, 192 lbf·ft) / 1400 min^{-1} (rpm)
	Battery capacity		12 V, RC: 160 min, CCA: 900 A			
	Fuel tank capacity		70 L (18.5 U.S.gals, 15 Imp.gals)			
	Engine oil capacity		12 L (12.7 U.S.qts, 11 Imp.qts)			
	Coolant capacity		8 L (8.5 U.S.qts, 7.0 Imp.qts)			
Dimensions	Overall length		3675 mm (144.7 in.)			
	Overall width (minimum tread)		1855 mm (73.03 in.)		1965 mm (77.36 in.)	
	Overall height		2515 mm (99.02 in.)		2455 mm (96.65 in.)	
	Wheel base		2110 mm (83.07 in.)			
	Tread	Front	1450 to 1540 mm (57.09 to 60.63 in.)		1365 to 1415 mm (53.74 to 55.71 in.)	
		Rear	1415 to 1735 mm (55.71 to 68.31 in.)		1545 to 1740 mm (60.83 to 68.30 in.)	
	Minimum ground clearance		400 mm (15.7 in.)		340 mm (13.4 in.)	
Weight			2490 kg (5490 lbs)		2420 kg (5335 lbs)	
Traveling system	Standard tire size	Front tire	320/85R30		320/70R20	
		Rear tire *2	420/85R30 (16.9-30)		420/70R28	
	Clutch		Hydraulic multiple wet disks			
	Steering		Hydraulic power steering			
	Braking system		Hydraulically operated wet disks			
	Trailer brake		Hydraulic			
	Trailer brake couple		ISO 5676			
	Differential		Bevel gears with differential lock (Rear)			
Hydraulic system	Hydraulic control system		Position, draft (top link sensing) and mix control			
	Pump capacity		61.5 L (16.2 U.S.gals, 13.5 Imp.gals) /min			
	3-point hitch		SAE Category 1 and 2			
	Max. lifting force	At lifting points*3	2300 kg (5071 lbs)			
	Remote hydraulic control		2 standard (3rd and flow control valve optional)			
	Remote control valve coupler		ISO 7241-1 standards "A"			
	System pressure		19.1 MPa (195 kgf/cm^2, 2770 psi)			
	Traction system		Swinging drawbar, adjustable in direction			
PTO	Live PTO (Independent)	Direction of turning	Clockwise, viewed from tractor rear			
		PTO speed	6 spline: 540 min^{-1} (rpm) / 2160 min^{-1} (rpm) engine speed 6 spline: 540E min^{-1} (rpm) / 1828 min^{-1} (rpm) engine speed			
The level of protection against hazardous substance *4			Category 1			

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

■ **NOTE**

- ***1: Manufacture's estimate**
  ***2: Cast iron disks available for wheels**
  ***3: At lower link end with links horizontal.**
  ***4: According to EN 15695-1: 2009**

Model			M6060	M7060	M6060-SPA	M7060-SPA
			4WD			
Noise at the operator's ear *5			85.3 dB (A)			
Noise of the tractor in motion *6			90 dB (A)			
Value of the vibration level *7	Grammer MSG95A/ 721	Light driver	1.24 m/s^2 (124 cm/s^2, 0.126 G)			
		Heavy driver	1.1 m/s^2 (110 cm/s^2, 0.11 G)			
	Grammer DS44/1HB	Light driver	1.04 m/s^2 (104 cm/s^2, 0.106 G)			
		Heavy driver	0.83 m/s^2 (83 cm/s^2, 0.085 G)			
	KAB11/E6	Light driver	1.19 m/s^2 (119 cm/s^2, 0.121 G)			
		Heavy driver	0.90 m/s^2 (90 cm/s^2, 0.092 G)			
	KAB15/E6	Light driver	1.09 m/s^2 (109 cm/s^2, 0.111 G)			
		Heavy driver	0.90 m/s^2 (90 cm/s^2, 0.092 G)			

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

■ **NOTE**

- ***5: Measured according to Directive 2009/76/EC**
  ***6: Measured according to Directive 2009/63/EC**
  ***7: Measured according to Directive 78/764/EEC**

9Y1210828INI0007US0

CABIN Model

Model			M6060	M7060	M7060-SPA
			4WD		
Engine	Model		V3307-CR-TE4		
	Type		4-cylinder in-line, Common Rail System, direct injection		
	Number of cylinders		4		
	Total displacement		3331 cm^3 (203 cu.in.)		
	Bore and stroke		94 × 120 mm (3.7 × 4.7 in.)		
	Rated speed		2400 min^{-1} (rpm)		
	Net power*1		47.3 kW (64.3 PS)	52.9 kW (71.9 PS)	
	Gross power*1		49.5 kW (67.3 PS)	55.4 kW (75.3 PS)	
	Maximum torque		229 N·m (23.4 kgf·m, 169 lbf·ft) / 1400 min^{-1} (rpm)	258 N·m (26.3 kgf·m, 190 lbf·ft) / 1400 min^{-1} (rpm)	
	Battery capacity		12 V, RC: 160 min, CCA: 900 A		
	Fuel tank capacity		90 L (24 U.S.gals, 20 Imp.gals)		
	Engine oil capacity		12 L (12.7 U.S.qts, 11 Imp.qts)		
	Coolant capacity		8 L (8.5 U.S.qts, 7 Imp.qts)		
Dimensions	Overall length		3675 mm (144.7 in.)		
	Overall width (minimum tread)		1855 mm (73.03 in.)		1965 mm (77.36 in.)
	Overall height		2580 mm (101.6 in.)		2520 mm (99.21 in.)
	Wheel base		2110 mm (83.07 in.)		
	Tread	Front	1450 to 1540 mm (57.09 to 60.63 in.)		1365 to 1415 mm (53.74 to 55.71 in.)
		Rear	1415 to 1735 mm (55.71 to 68.31 in.)		1545 to 1740 mm (60.83 to 68.30 in.)
	Minimum ground clearance		390 mm (15.4 in.)		330 mm (13.0 in.)
Weight			2725 kg (6008 lbs)		2655 kg (5853 lbs)
Traveling system	Standard tire size	Front tire	320/85R20		320/70R20
		Rear tire *2	420/85R30 (16.9-30)		420/70R28
	Clutch		Hydraulic multiple wet disks		
	Steering		Hydraulic power steering		
	Braking system		Hydraulically operated wet disks		
	Trailer brake		Hydraulic		
	Trailer brake couple		ISO 5676		
	Differential		Bevel gears with differential lock (Rear)		
Hydraulic system	Hydraulic control system		Position, draft (top link sensing) and mix control		
	Pump capacity		61.5 L (16.2 U.S.gals, 13.5 Imp.gals) /min		
	3-point hitch		SAE Category 1 and 2		
	Max. lifting force	At lifting points*3	2300 kg (5071 lbs)		
	Remote hydraulic control		2 standard (3rd and flow control valve optional)		
	Remote control valve coupler		ISO 7241-1 standards "A"		
	System pressure		19.1 MPa (195 kgf/cm^2, 2770 psi)		
	Traction system		Swinging drawbar, adjustable in direction		
PTO	Live PTO (Independent)	Direction of turning	Clockwise, viewed from tractor rear		
		PTO speed	6 spline: 540 min^{-1} (rpm) / 2160 min^{-1} (rpm) engine speed 6 spline: 540E min^{-1} (rpm) / 1828 min^{-1} (rpm) engine speed		
The level of protection against hazardous substance *4			Category 1		

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

■ **NOTE**

- ***1: Manufacture's estimate**
  ***2: At lower link end with links horizontal.**
  ***3: At lower link end with links horizontal.**
  ***4: According to EN 15695-1: 2009**

Model			M6060	M7060	M7060-SPA
			4WD		
Noise at the operator's ear *5	CAB/door closed		78.9 dB (A)		
	CAB/door closed		80.3 dB (A)		
Noise of the tractor in motion *6			80 dB (A)		
Value of the vibration level *7	Grammer MSG95A/721	Light driver	1.24 m/s^2 (124 cm/s^2, 0.126 G)		
		Heavy driver	1.1 m/s^2 (110 cm/s^2, 0.11 G)		
	Grammer DS85H/90	Light driver	1.24 m/s^2 (124 cm/s^2, 0.126 G)		
		Heavy driver	0.98 m/s^2 (98 cm/s^2, 0.10 G)		
	KAB 11/E6	Light driver	1.19 m/s^2 (119 cm/s^2, 0.12 G)		
		Heavy driver	0.90 m/s^2 (90 cm/s^2, 0.092 G)		
	KAB 15/E6	Light driver	1.09 m/s^2 (109 cm/s^2, 0.111 G)		
		Heavy driver	0.90 m/s^2 (90 cm/s^2, 0.092 G)		
	Sears 3045	Light driver	1.20 m/s^2 (120 cm/s^2, 0.122 G)		
		Heavy driver	1.12 m/s^2 (112 cm/s^2, 0.114 G)		

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

■ **NOTE**

- ***5: Measured according to Directive 2009/76/EC**
  ***6: Measured according to Directive 2009/63/EC**
  ***7: Measured according to Directive 78/764/EEC**

9Y1210828INI0008US0

4. TRAVELING SPEEDS

(At rated engine rpm)

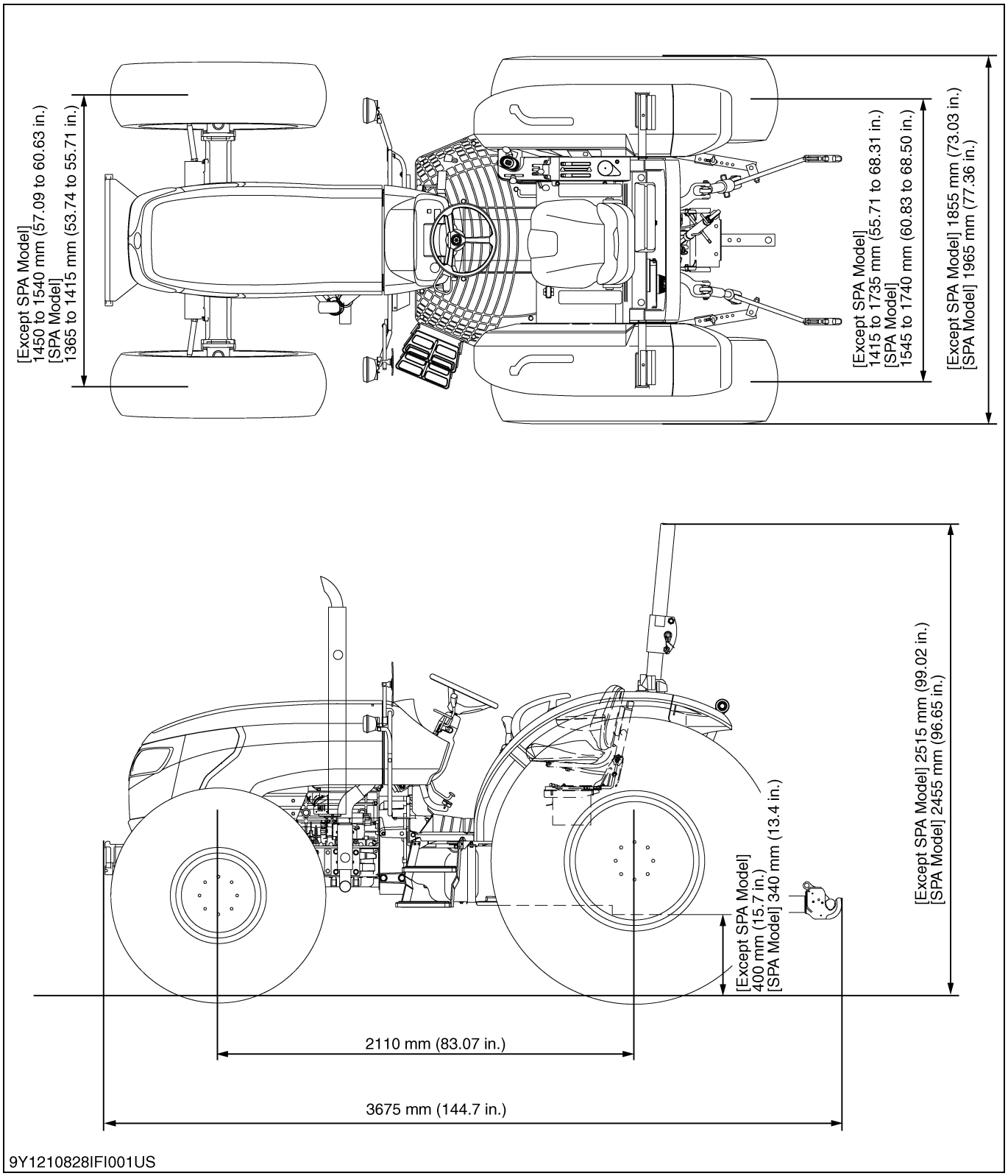
Model			M6060 / M7060	M6060-SPA / M7060-SPA
Tire size (Rear)			420/85R30 (16.9-30)	420/70R28
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h (mph)	km/h (mph)
Forward	CREEP	1	0.4 (0.2)	0.4 (0.2)
		2	0.6 (0.4)	0.6 (0.4)
		3	0.8 (0.5)	0.7 (0.4)
		4	1.0 (0.62)	0.9 (0.6)
		5	1.3 (0.81)	1.2 (0.75)
		6	1.7 (1.1)	1.6 (0.99)
	L	1	2.6 (1.6)	2.4 (1.5)
		2	3.7 (2.3)	3.3 (2.0)
		3	4.7 (2.9)	4.3 (2.7)
		4	6.1 (3.8)	5.5 (3.4)
		5	7.7 (4.8)	7.1 (4.4)
		6	10.2 (6.34)	9.4 (5.8)
	H	1	12.3 (7.64)	11.3 (7.02)
		2	17.4 (10.8)	16.0 (9.94)
		3	22.5 (14.0)	20.6 (12.8)
		4	28.9 (18.0)	26.4 (16.4)
		5	37.0 (17.7)	33.9 (21.1)
		6	39.9 (*1) (24.8)	36.5 (*1) (22.7)
Reverse	CREEP	1	0.4 (0.2)	0.4 (0.2)
		2	0.6 (0.4)	0.6 (0.4)
		3	0.8 (0.5)	0.7 (0.4)
		4	1.0 (0.62)	0.9 (0.6)
		5	1.3 (0.81)	1.2 (0.75)
		6	1.7 (1.1)	1.6 (0.99)
	L	1	2.5 (1.6)	2.3 (1.4)
		2	3.6 (2.2)	3.3 (2.0)
		3	4.6 (2.9)	4.3 (2.7)
		4	5.9 (3.7)	5.4 (3.4)
		5	7.6 (4.7)	7.0 (4.3)
		6	10.1 (6.28)	9.2 (5.7)
	H	1	12.1 (7.52)	11.1 (6.90)
		2	17.1 (10.6)	15.7 (9.76)
		3	22.2 (13.8)	20.3 (12.6)
		4	28.4 (17.6)	26.0 (16.2)
		5	36.3 (22.6)	33.3 (20.7)
		6	39.2 (*1) (24.4)	35.9 (*1) (22.3)

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

9Y1210828INI0009US0

5. DIMENSIONS

ROPS Model



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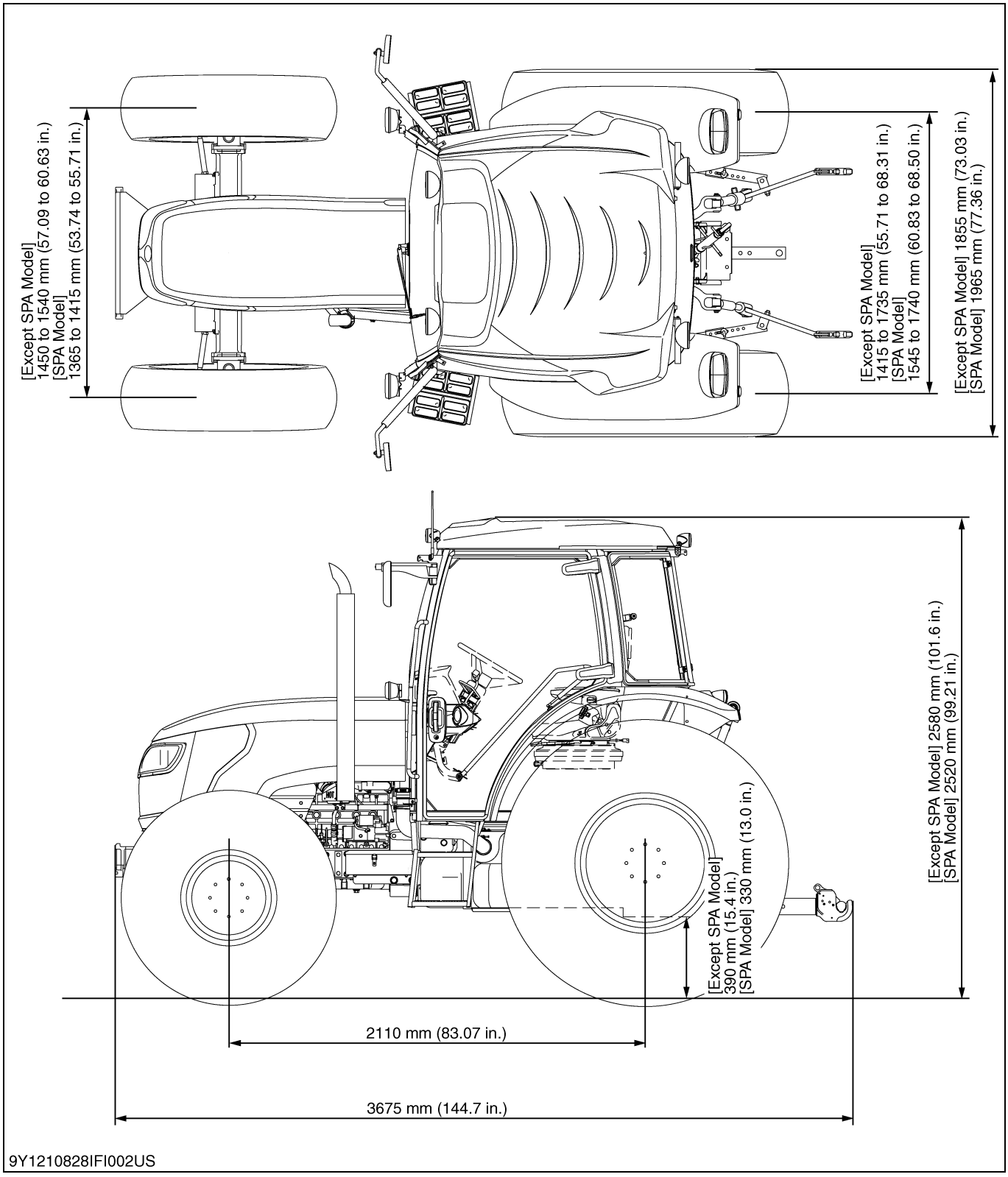
9Y1210828INI0011US0

CABIN Model



9Y1210828IFI002US

9Y1210828INI0012US0

G GENERAL

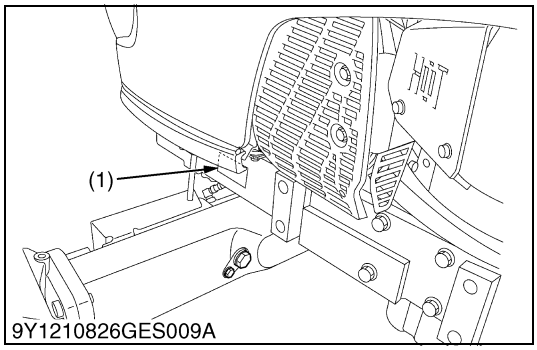
GENERAL

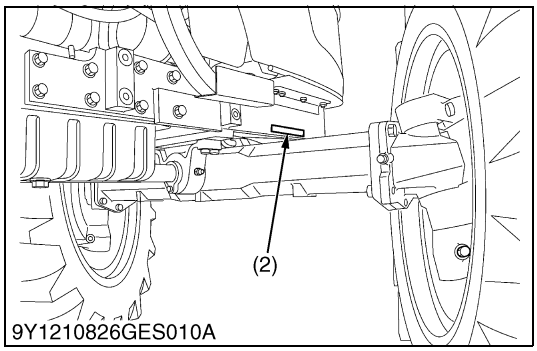
CONTENTS

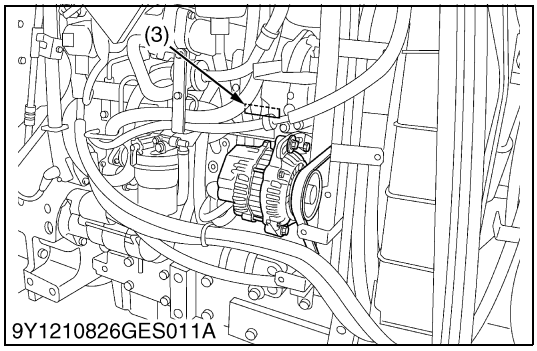
1. TRACTOR IDENTIFICATION

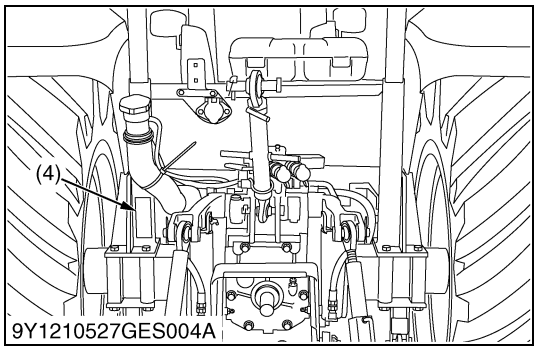
[1] MODEL NAME AND SERIAL NUMBERS

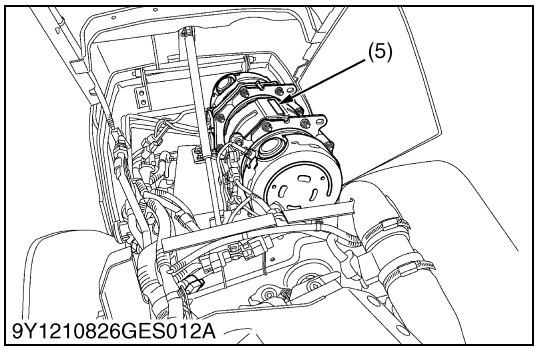
(1) ROPS Model









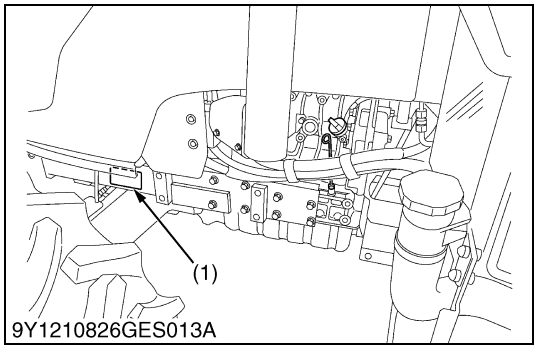


When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hourmeter reading.

(1) Tractor Identification Plate
(2) Tractor Serial Number
(3) Engine Serial Number
(4) ROPS Identification Plate (ROPS Serial Number)
(5) Diesel Particulate Filter (DPF) Serial Number

9Y1210828GEG0001US0

(2) CABIN Model



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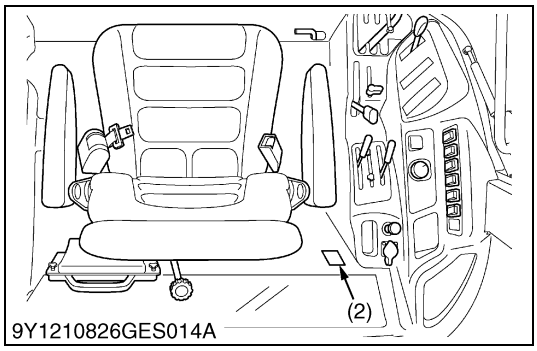

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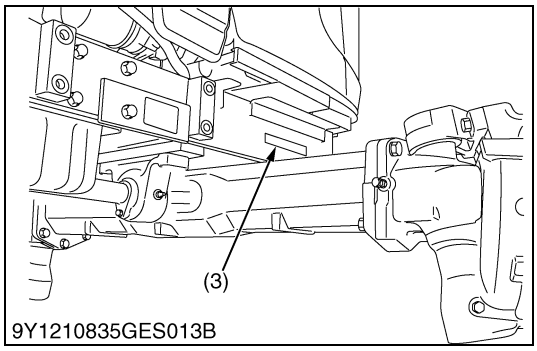

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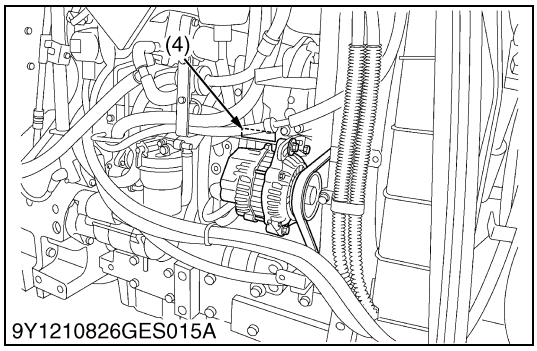

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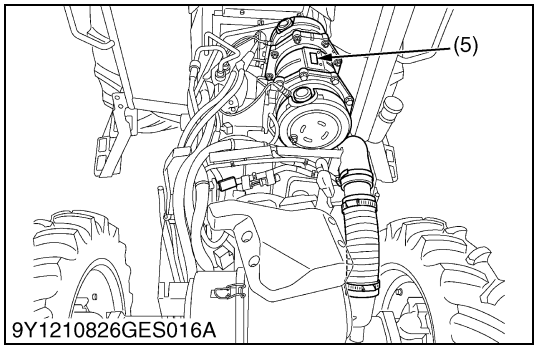


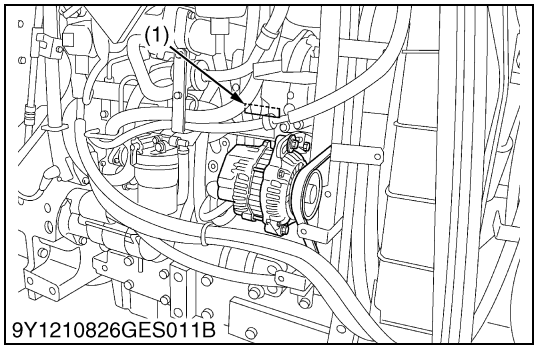
9Y1210826GES016A

When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hourmeter reading.

(1) Tractor Identification Plate
(2) CABIN Identification Plate (CABIN Serial Number)
(3) Tractor Serial Number
(4) Engine Serial Number
(5) Diesel Particulate Filter (DPF) Serial Number

9Y1210828GEG0002US0

(3) Engine Serial Number



The engine serial number is an identified number for the engine. It is marked after the engine model number.

It indicates month and year of manufacture as follows.

- **Year of manufacture**

Alphabet or Number	Year	Alphabet or Number	Year
1	2001	F	2015
2	2002	G	2016
3	2003	H	2017
4	2004	J	2018
5	2005	K	2019
6	2006	L	2020
7	2007	M	2021
8	2008	N	2022
9	2009	P	2023
A	2010	R	2024
B	2011	S	2025
C	2012	T	2026
D	2013	V	2027
E	2014		

- **Month of manufacture**

Month	Engine Serial Number	
	0001 ~ 9999	10000 ~
January	A0001 ~ A9999	B0001 ~
February	C0001 ~ C9999	D0001 ~
March	E0001 ~ E9999	F0001 ~
April	G0001 ~ G9999	H0001 ~
May	J0001 ~ J9999	K0001 ~
June	L0001 ~ L9999	M0001 ~
July	N0001 ~ N9999	P0001 ~
August	Q0001 ~ Q9999	R0001 ~
September	S0001 ~ S9999	T0001 ~
October	U0001 ~ U9999	V0001 ~
November	W0001 ~ W9999	X0001 ~
December	Y0001 ~ Y9999	Z0001 ~

e.g. V3007-6A0001

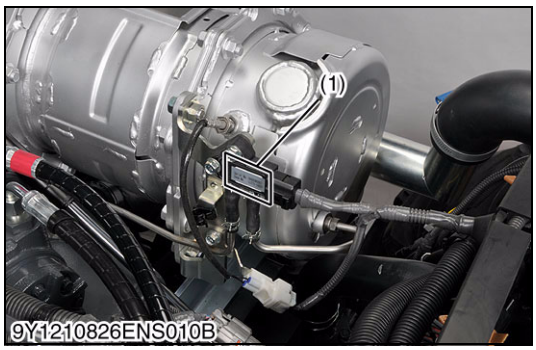
"6" indicates 2006 and "A" indicates January.

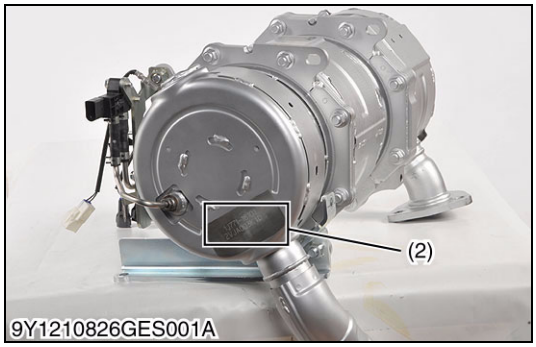
So, 6A indicates that the engine was manufactured on January, 2006.

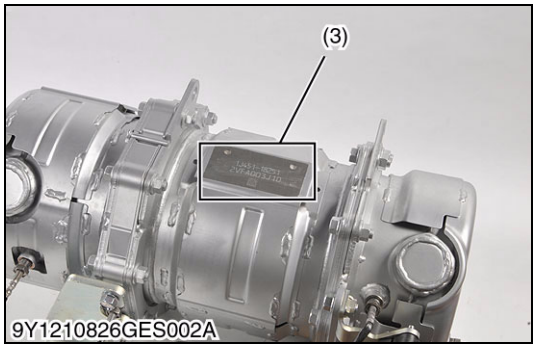
(1) Engine Model and Serial Number

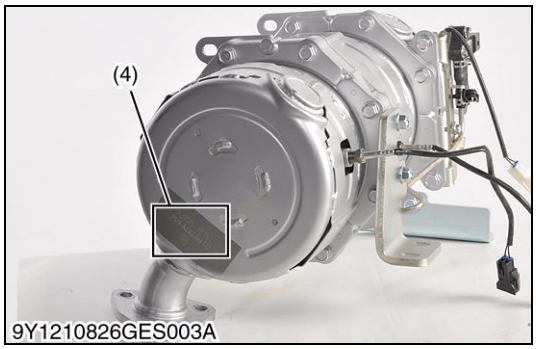
9Y1210828GEG0003US0

(4) DPF Muffler Number









The DPF muffler full assembly serial number is an identified number for the DPF muffler full assembly.

It shows the month and year of manufacture as below.

(1) DPF Muffler Full Assembly Part Number and Serial Number
(2) Body (DPF Outlet) Part Number and Serial Number
(3) Filter Comp (DPF) Part Number and Serial Number
(4) Catalyst (DOC) Part Number and Serial Number

(To be continued)

(Continued)

Year of manufacture

Alphabet or Number	Year	Alphabet or Number	Year
1	2001	F	2015
2	2002	G	2016
3	2003	H	2017
4	2004	J	2018
5	2005	K	2019
6	2006	L	2020
7	2007	M	2021
8	2008	N	2022
9	2009	P	2023
A	2010	R	2024
B	2011	S	2025
C	2012	T	2026
D	2013	V	2027
E	2014		

Month of manufacture

Month	DPF Muffler Full Assembly Lot Number	
January	A0001 ~ A9999	B0001 ~ BZ999
February	C0001 ~ C9999	D0001 ~ DZ999
March	E0001 ~ E9999	F0001 ~ FZ999
April	G0001 ~ G9999	H0001 ~ HZ999
May	J0001 ~ J9999	K0001 ~ KZ999
June	L0001 ~ L9999	M0001 ~ MZ999
July	N0001 ~ N9999	P0001 ~ PZ999
August	Q0001 ~ Q9999	R0001 ~ RZ999
September	S0001 ~ S9999	T0001 ~ TZ999
October	U0001 ~ U9999	V0001 ~ VZ999
November	W0001 ~ W9999	X0001 ~ XZ999
December	Y0001 ~ Y9999	Z0001 ~ ZZ999

* Alphabetical letters "I" and "O" are not used.

(a)(b) (c)
e.g. B L 0019

(a) Year: B indicates 2011
(b) Month: L or M indicates June
(c) Lot Number: (**0001 ~ 9999** or **A001 ~ Z999**)

9Y1210828GEG0004US0

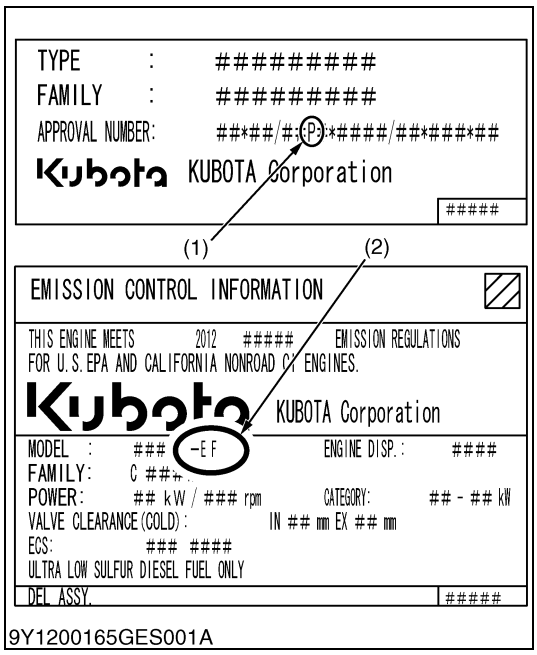
[2] E4B ENGINE

[Example: Engine Model Name V3307-CR-TE4B-XXXX]

The emission controls previously implemented in various countries to prevent air pollution will be stepped up as Nonroad Emission Standards continue to change. The timing or applicable date of the specific Nonroad Emission regulations depends on the engine output classification.

Over the past several years, KUBOTA has been supplying diesel engines that comply with regulations in the respective countries affected by Nonroad Emission regulations. For KUBOTA Engines, E4B will be the designation that identifies engine models affected by the next emission phase (See the table below).

When servicing or repairing ###-E4B series engines, use only replacement parts for that specific E4B engine, designated by the appropriate E4B KUBOTA Parts List and perform all maintenance services listed in the appropriate KUBOTA Operator's Manual or in the appropriate E4B KUBOTA Workshop Manual. Use of incorrect replacement parts or replacement parts from other emission level engines (for example: E3B engines), may result in emission levels out of compliance with the original E4B design and EPA or other applicable regulations.Please refer to the emission label located on the engine head cover to identify Output classification and Emission Control Information. E4B engines are identified with "EF" at the end of the Model designation, on the US EPA label. Please note: E4B is not marked on the engine.



9Y1200165GES001A

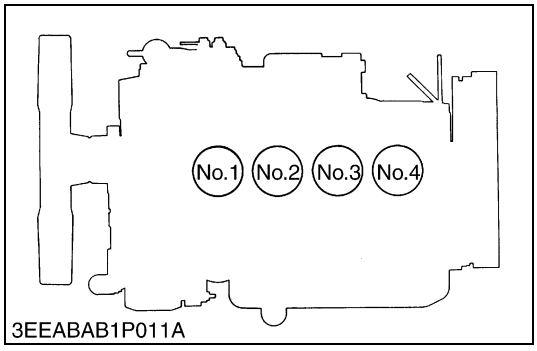
Category (1)	Engine output classification	EU regulation
P	From 37 to less than 56 kW	STAGE IIIB
N	From 56 to less than 75 kW	STAGE IIIB
M	From 75 to less than 130 kW	STAGE IIIB

Category (2)	Engine output classification	EPA regulation
EF	Less than 19 kW	Tier 4
	From 19 to less than 56 kW	Interim Tier 4
	From 56 to less than 75 kW	Interim Tier 4
	From 75 to less than 130 kW	Interim Tier 4

(1) EU regulation engine output classification category
(2) "E4B" engines are identified with "EF" at the end of the Model designation, on the US EPA label.
"E4B" designates some Interim Tier 4 / Tier 4 models, depending on engine output classification.

9Y1210828GEG0005US0

[3] CYLINDER NUMBER



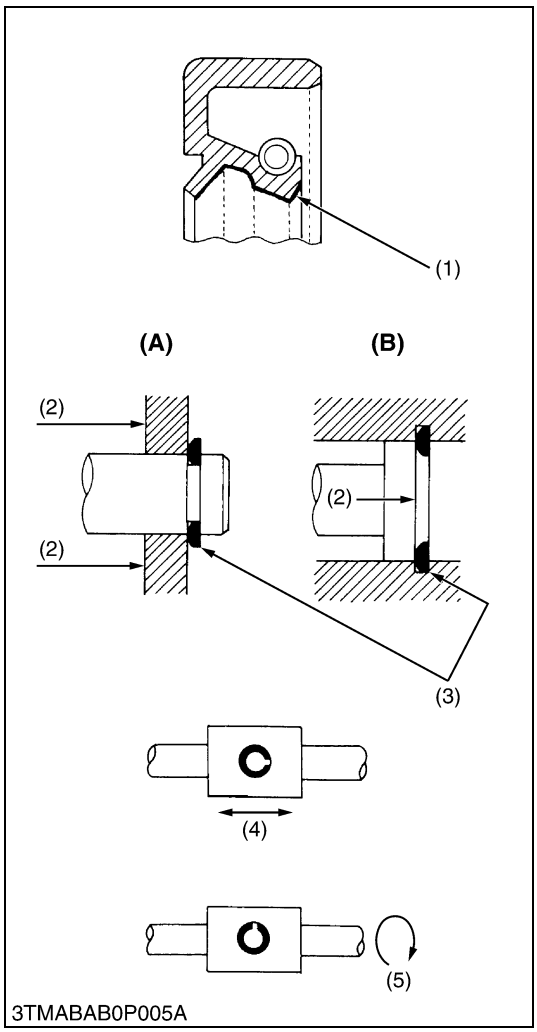
3EEABAB1P011A

You can see the cylinder numbers of KUBOTA diesel engine in the figure.

The sequence of cylinder numbers is No.1, No.2, No.3 and No.4 and it starts from the gear case side.

9Y1210828GEG0006US0

2. GENERAL PRECAUTIONS



- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors.
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when you make special tools that you do not use frequently.
- Before you disassemble or repair machine, make sure that you always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before you measure.
- Use only KUBOTA genuine parts for replacement to keep the machine performance and to make sure of safety.
- You must replace the gaskets and O-rings when you assemble again. Apply grease (1) to new O-rings or oil seals before you assemble.
- When you assemble the external or internal snap rings, make sure that the sharp edge (3) faces against the direction from which force (2) is applied.
- When inserting spring pins, their splits must face the direction from which a force is applied. See the figure left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.
- Clean the parts before you measure them.
- Tighten the fittings to the specified torque. Too much torque can cause damage to the hydraulic units or the fittings. Not sufficient torque can cause oil leakage.
- When you use a new hose or pipe, tighten the nuts to the specified torque. Then loosen (approx. by 45 °) and let them be stable before you tighten to the specified torque (This is not applied to the parts with seal tape).
- When you remove the two ends of a pipe, remove the lower end first.
- Use two pliers in removal and installation. One to hold the stable side, and the other to turn the side you remove to prevent twists.
- Make sure that the sleeves of flared connectors and tapers of hoses are free of dust and scratches.
- After you tighten the fittings, clean the joint and apply the maximum operation pressure 2 to 3 times to examine oil leakage.

(1) Grease
(2) Force
(3) Sharp Edge
(4) Axial Force
(5) Rotating Movement

(A) External Circlip
(B) Internal Circlip

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