

Product: Kubota M6040, M7040 Service Manual

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WSM

WORKSHOP MANUAL
TRACTOR

M6040, M7040

Kubota

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KISC issued 01, 2022 A

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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 M6040 and M7040. It is divided into three parts, "General", "Mechanism" and "Servicing".

■ General

Information on the tractor identification, the general precautions, maintenance check list, check and maintenance 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.

Refer to Diesel Engine / Tractor Mechanism Workshop Manual (Code No. 9Y021-01874 / 9Y021-18201) for the one which has not been described to this workshop manual.

■ Servicing

Information on the troubleshooting, servicing specification lists, tightening torque, 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.

The right is reserved to make changes in all information at any time without notice.

Due to covering many models of this manual, information or picture being used, have not been specified as one model.

January 2007

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Record of Revisions

For pdf, use search function {Search word} to find all the revised locations.

Last digit of the Code No.	Month of Revision	Main Revised Point and Corrective Measures {Search word}	Reference Page
4	2019.01	Changed the order of replacing the meter panel.	9-S18 to 9-S21
5	2020.07	Additional information • Tightening torques for the cylinder head mounting screw were changed.	1-S11, 1-S30, 1-S52
6	2022.01	Addition of note regarding assembly of piston.	1-S48



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

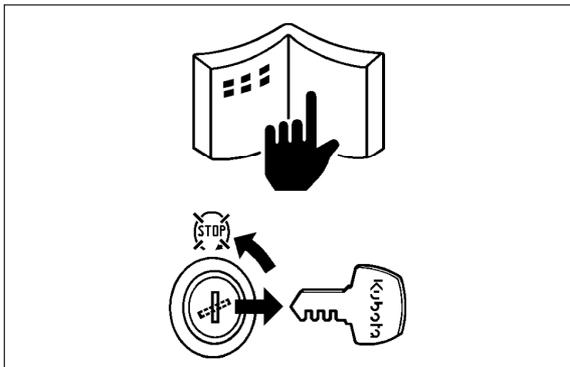
: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

■ IMPORTANT

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

■ NOTE

: Gives helpful information.



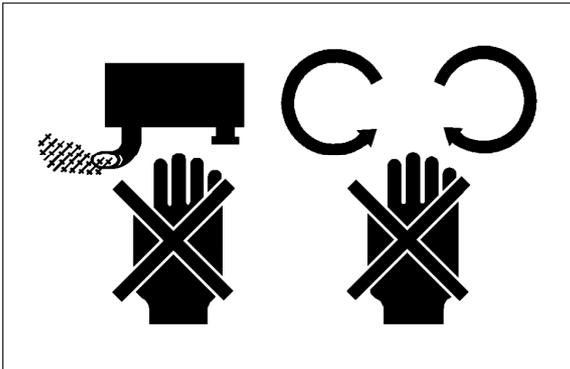
BEFORE SERVICING AND REPAIRING

- 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 firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "DO NOT OPERATE" tag in operator station.



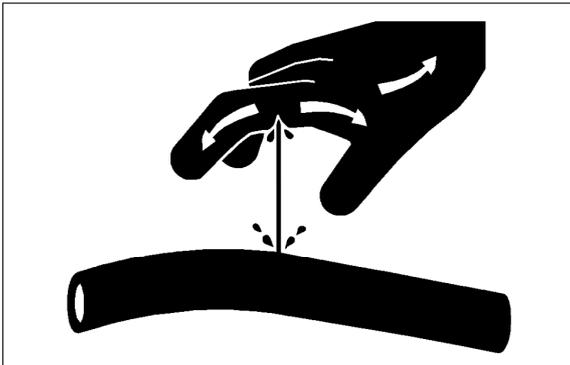
SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



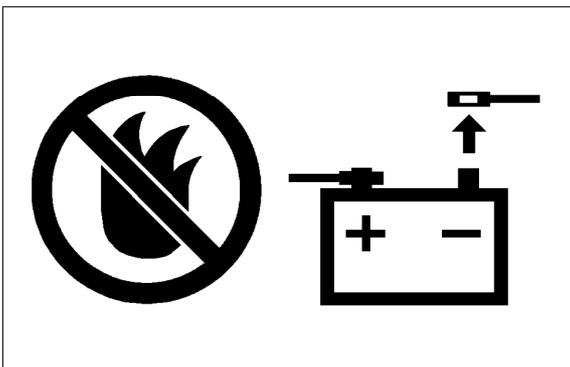
SAFETY WORKING

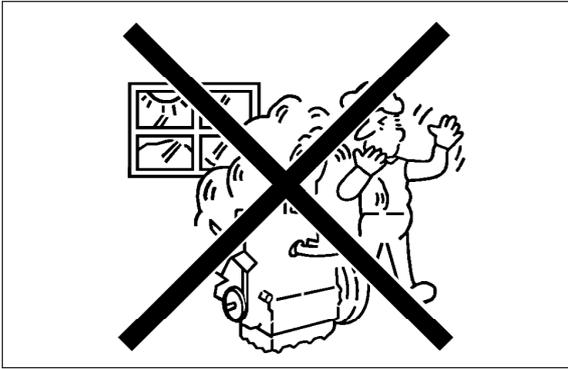
- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.



AVOID FIRES

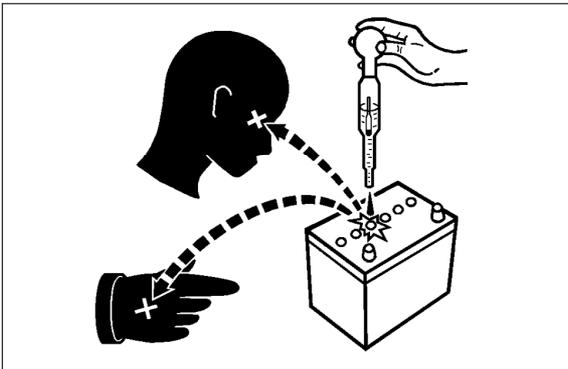
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.





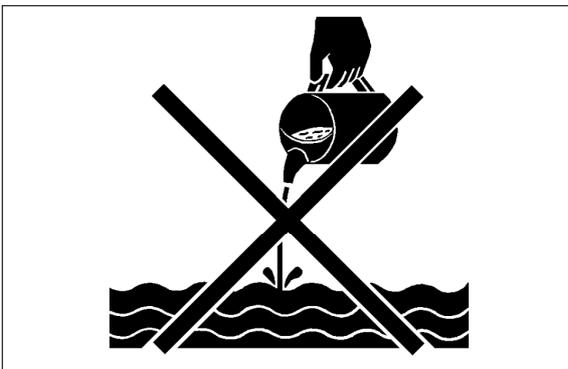
VENTILATE WORK AREA

- If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.



PREVENT ACID BURNS

- Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.



DISPOSE OF FLUIDS PROPERLY

- Do not pour fluids into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, electrolyte and other harmful waste.



PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher handy at all times.
- Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

SAFETY DECALS

The following safety decals are installed on the machine.

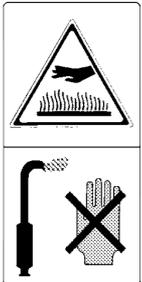
If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

■ ROPS Model

(1) Part No. 6C090-4958-2
Stay clear of engine fan and fanbelt.



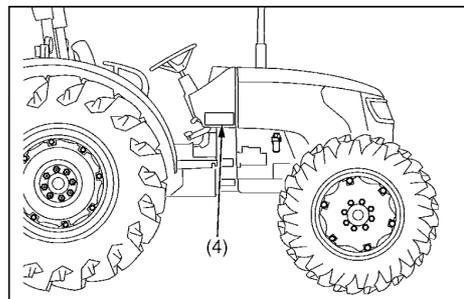
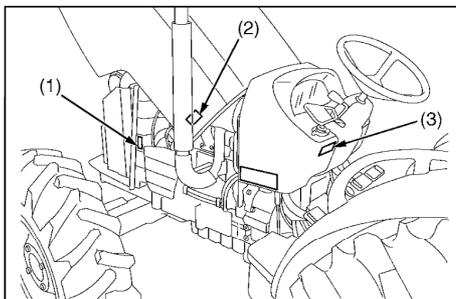
(2) Part No. 3N300-4958-1
Do not touch hot surface like muffler, etc.



(3) Part No. 3F240-9857-1 [Hydraulic shuttle model]



(4) Part No. TA040-4965-2



3TMACAPCP001A

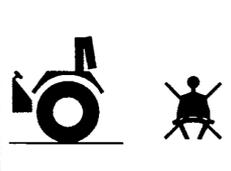
(1) Part No. 6C070-4742-2

⚠ 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.

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

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

(4) Part No. TA040-4956-2

Diesel fuel only

No fire



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

⚠ CAUTION

TO AVOID INJURY FROM SEPARATION:

GROOVE



LH

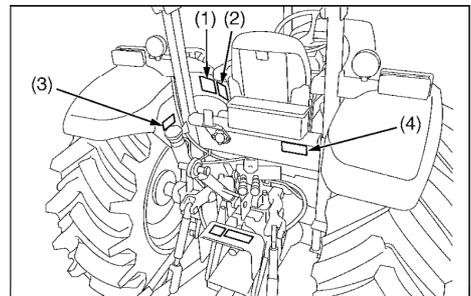
DO NOT EXTEND LIFT ROD BEYOND THE GROOVE ON THE THREADED ROD.

GROOVE



RH

1AGAICVAP046E



3TMACAPCP002A

(1) Part No. 6C150-4743-1 [Hydraulic shuttle model]

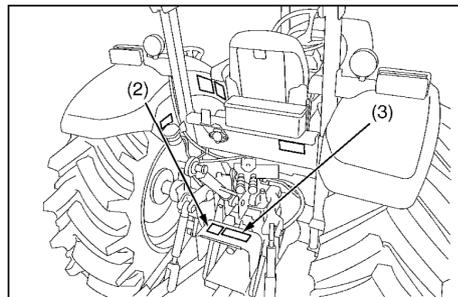
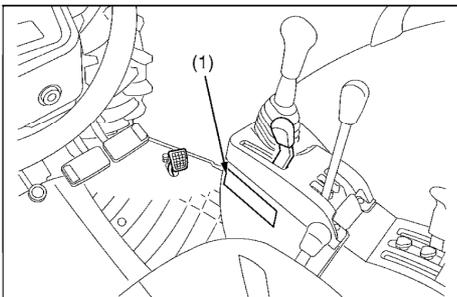
 WARNING	<p>BEFORE DISMOUNTING TRACTOR:</p> <ol style="list-style-type: none"> 1. ALWAYS SET PARKING BRAKE. Leaving transmission in gear with the engine stopped will not prevent tractor from rolling. 2. PARK ON LEVEL GROUND WHENEVER POSSIBLE. If parking on a slope, position tractor across the slope. 3.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

(2) Part No. TA040-4935-1

 WARNING
<p>TO AVOID PERSONAL INJURY:</p> <ol style="list-style-type: none"> 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.

(3) Part No. TA040-4959-3

	<p style="text-align: center;"> WARNING</p> <p>TO AVOID PERSONAL INJURY.</p> <ol style="list-style-type: none"> 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)
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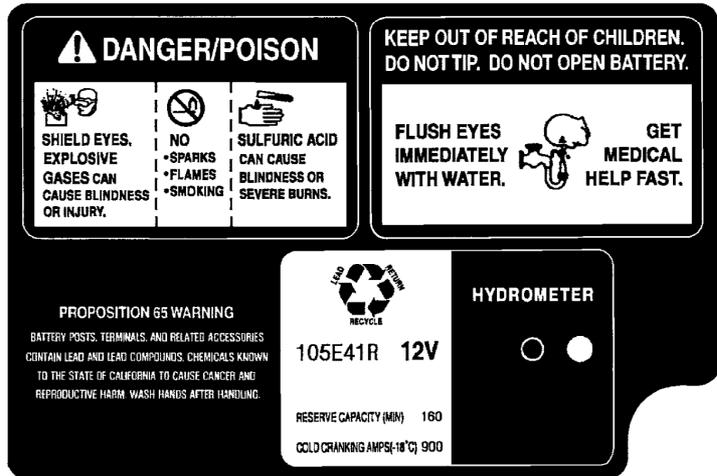


3TMACAPCP003A

(1) Part No. 6C090-4958-2
Stay clear of engine fan and fanbelt.



(2) Part No. 3N300-9892-1

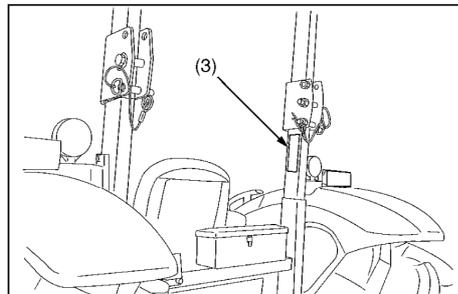
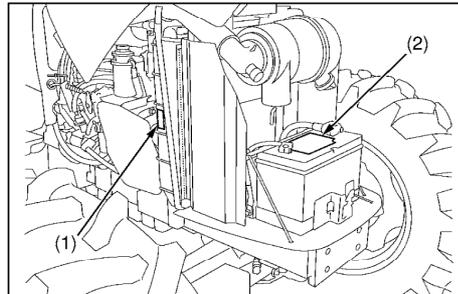


(3) Part No. 3A111-9554-1

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.



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 or caution label (s) affixed is replaced with new part, make sure new label (s) is (are) attached in the same location (s) as the replaced component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

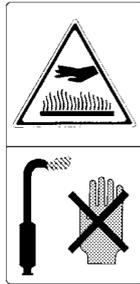
3TMACAPCP004A

■ CABIN Model

(1) Part No. 6C090-4958-2
Stay clear of engine fan and fanbelt.



(2) Part No. 3N300-4958-1
Do not touch hot surface like muffler, etc.



(3) Part No. 6C040-4741-1
No fire



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

CAUTION REFRIGERANT UNDER HIGH PRESSURE

Improper service methods may cause injury. Air conditioning system should be serviced by qualified personnel. See Repair Manual.

Refrigerant HFC134a Max. 0.95kg (2.09lbs.) USE ONLY Min. 0.85kg (1.87lbs.)
Oil ND-OIL OR EQUIVALENT 8 SAE J-639

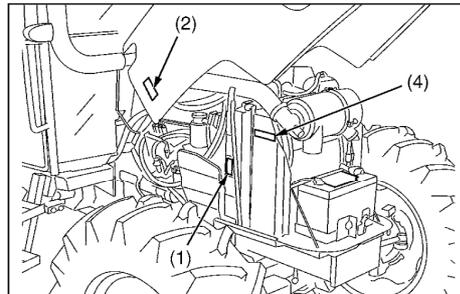
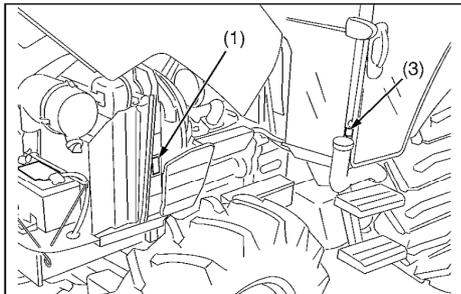
MFD. BY DENSO CORPORATION JAPAN.

ATTENTION REFRIGERANT SOUS HAUTE PRESSION

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.) UNIQUEMENT Min. 0.85kg (1.87lbs.)
Huile ND-OIL OU EQUIVALENTS 8 SAE J-639

FABRIQUE PAR DENSO CORPORATION JAPON.



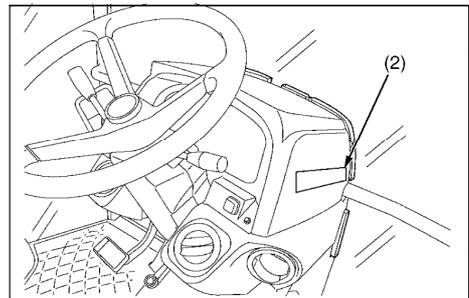
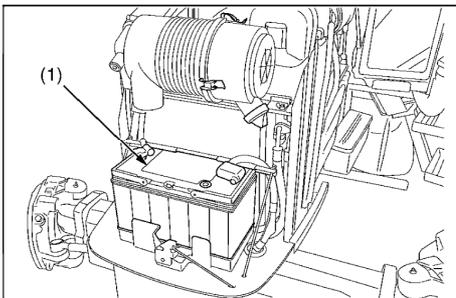
3TMACAPCP005A

(1) Part No. 3N300-9892-1

<p>⚠ DANGER/POISON</p>			<p>KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY.</p>	
<p>SHIELD EYES. EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.</p>	<p>NO • SPARKS • FLAMES • SMOKING</p>	<p>SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.</p>	<p>FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.</p>	
<p>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.</p>			<p>HYDROMETER</p>	
<p>105E41R 12V</p>			<p>○ ●</p>	
<p>RESERVE CAPACITY (MIN) 160 COLD CRANKING AMPS(-18°C) 900</p>				

(2) Part No. TA040-4965-2

	<p>⚠ DANGER</p>
	<p>TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.</p> <ol style="list-style-type: none"> 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.



3TMACAPCP006A

(1) Part No. 3F240-9857-1 [Hydraulic shuttle model]

⚠ 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.

(2) Part No. 6C150-4743-1 [Hydraulic shuttle model]

⚠ 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.**

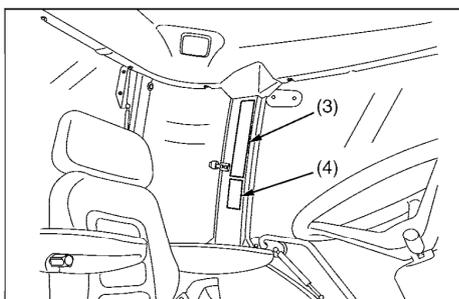
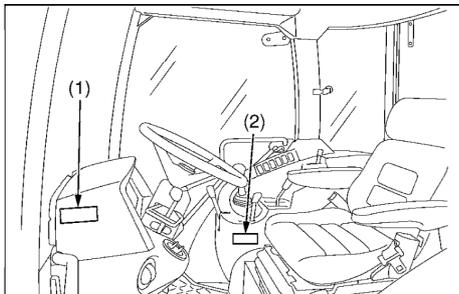


(3) Part No. 3F240-9836-2

⚠ 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.



(4) Part No. TA040-4902-1

⚠ WARNING



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

3TMACAPCP007A

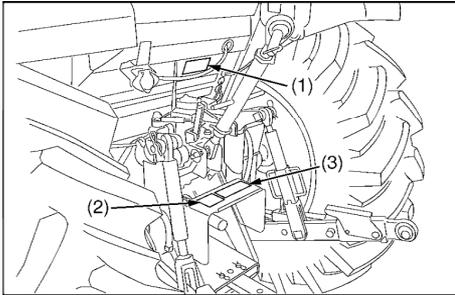
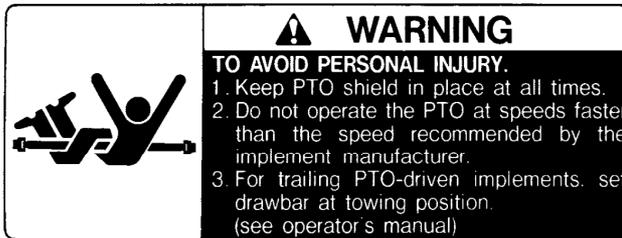
(1) Part No. 3P305-9856-1



(2) Part No. TA040-4935-1



(3) Part No. TA040-4959-3

**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 or caution label (s) affixed is replaced with new part, make sure new label (s) is (are) attached in the same location (s) as the replaced component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

3TMACAPCP008A

SPECIFICATIONS

Model		M6040	M7040		
		4WD	2WD	4WD	
Engine	Model	V3307-DI-E2	V3307-DI-E2-1		
	Type	Vertical, water-cooled, 4-cycle direct injection diesel engine			
	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	2600 min ⁻¹ (rpm)			
	Net power ^{*1}	46.2 kW (62 HP)	50.7 kW (68 HP)		
	PTO power ^{*1}	41.0 kW (55 HP)	46.2 kW (62 HP)		
	Maximum torque	213 N·m (21.7 kgf·m, 157.1 lbf·ft) / 1300 to 1500 min ⁻¹ (rpm)	232 N·m (23.7 kgf·m, 171.1 lbf·ft) / 1300 to 1500 min ⁻¹ (rpm)		
	Battery capacity	12 V, RC : 160 min, CCA : 900 A			
	Fuel	Diesel fuel No. 1 [below -10 °C (14 °F)], Diesel fuel No. 2-D [above -10 °C (14 °F)]			
	Fuel tank capacity	ROPS Model	70 L (18.5 U.S.gals., 15.4 Imp.gals.)		
		CABIN Model	90 L (23.8 U.S.gals., 19.8 Imp.gals.)		
	Engine oil capacity	11 L (11.6 U.S.qts., 9.7 Imp.qts.)			
Coolant capacity	8 L (8.5 U.S.qts., 7.0 Imp.qts.)				
Dimensions	Overall length	ROPS Model	3445 mm (136 in.)	–	3445 mm (136 in.)
		CABIN Model	3505 mm (138 in.)		
	Overall width (min. tread)	1860 mm (73 in.)			
	Overall height	ROPS Model	2460 mm (96.85 in.)	2470 mm (97.2 in.)	
		CABIN Model	2555 mm (100.6 in.)	2565 mm (101 in.)	
	Wheel base	ROPS Model	2050 mm (81 in.)	–	2050 mm (81 in.)
		CABIN Model	2110 mm (83.1 in.)	2145 mm (84.4 in.)	2110 mm (83.1 in.)
	Tread	Front	1420, 1520 mm (55.9, 59.8 in.)	1420 to 1820 mm (55.9 to 71.7 in.)	1420, 1520 mm (55.9, 59.8 in.)
		Rear	1420 to 1720 mm (55.9 to 67.7 in.)		
	Minimum ground clearance	ROPS Model	390 mm (15.4 in.) (Fuel tank stay)	–	415 mm (16.3 in.) (Fuel tank stay)
CABIN Model		430 mm (16.9 in.) (Fuel tank stay)	440 mm (17.3 in.) (Fuel tank stay)		
Weight	ROPS	2170 kg (4784 lbs)	–	2180 kg (4806 lbs)	
	CABIN	2430 kg (5357 lbs)	2380 kg (5247 lbs)	2440 kg (5379 lbs)	
Traveling system	Standard tire size	Front	9.5-24	7.5-16	9.5-24
		Rear	16.9-28	16.9-30 ^{*2}	
	Clutch	Multiple wet discs	Dry, single plate	Multiple wet discs	
	Shuttle	Hydraulic	Wet disc type synchro	Hydraulic	
	Number of speed	F12/R12 (with creep)			
	Transmission	F8/R8 fully synchronized			
	Steering	Hydraulic power steering			
	Braking system	Multiple wet discs mechanical			
	Differential	Front	Bevel gears	–	LSD (Limited Slip Differential)
		Rear	Bevel gears with differential lock		

Note : *1 : Manufacture's estimate

*2 : Cast iron discs available for wheels

*3 : At lower link end with links horizontal.

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

W10281170

Model		M6040		M7040	
		4WD		2WD	4WD
Hydraulic system	Hydraulic control system		Position, draft (top link sensing) and mix control		
	Pump capacity		41.6 L (11.0 U.S.gals., 9.2 Imp.gals.) / min.		
	3-point hitch		SAE Category 1 and 2		
	Max. lifting force	At lift points ^{*3}	1900 kg (4189 lbs)		
		24 in. behind lift points ³	1500 kg (3307 lbs)		
	Remote hydraulic control		Two remote valves (3rd valve option)		
System pressure		19.1 MPa (195 kgf/cm ² , 2270.3 psi)			
Traction system		Swinging drawbar, adjustable in direction			
PTO	Live PTO (Independent)	Direction of turning	Clockwise, viewed from tractor rear		
		PTO speed	540 min ⁻¹ (rpm) / 2160 min ⁻¹ (rpm) engine speed 540E min ⁻¹ (rpm) / 1825 min ⁻¹ (rpm) engine speed		

Note : *1 : Manufacture's estimate

*2 : Cast iron discs available for wheels

*3 : At lower link end with links horizontal.

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

W10309210

TRAVELING SPEEDS

(At rated engine rpm)

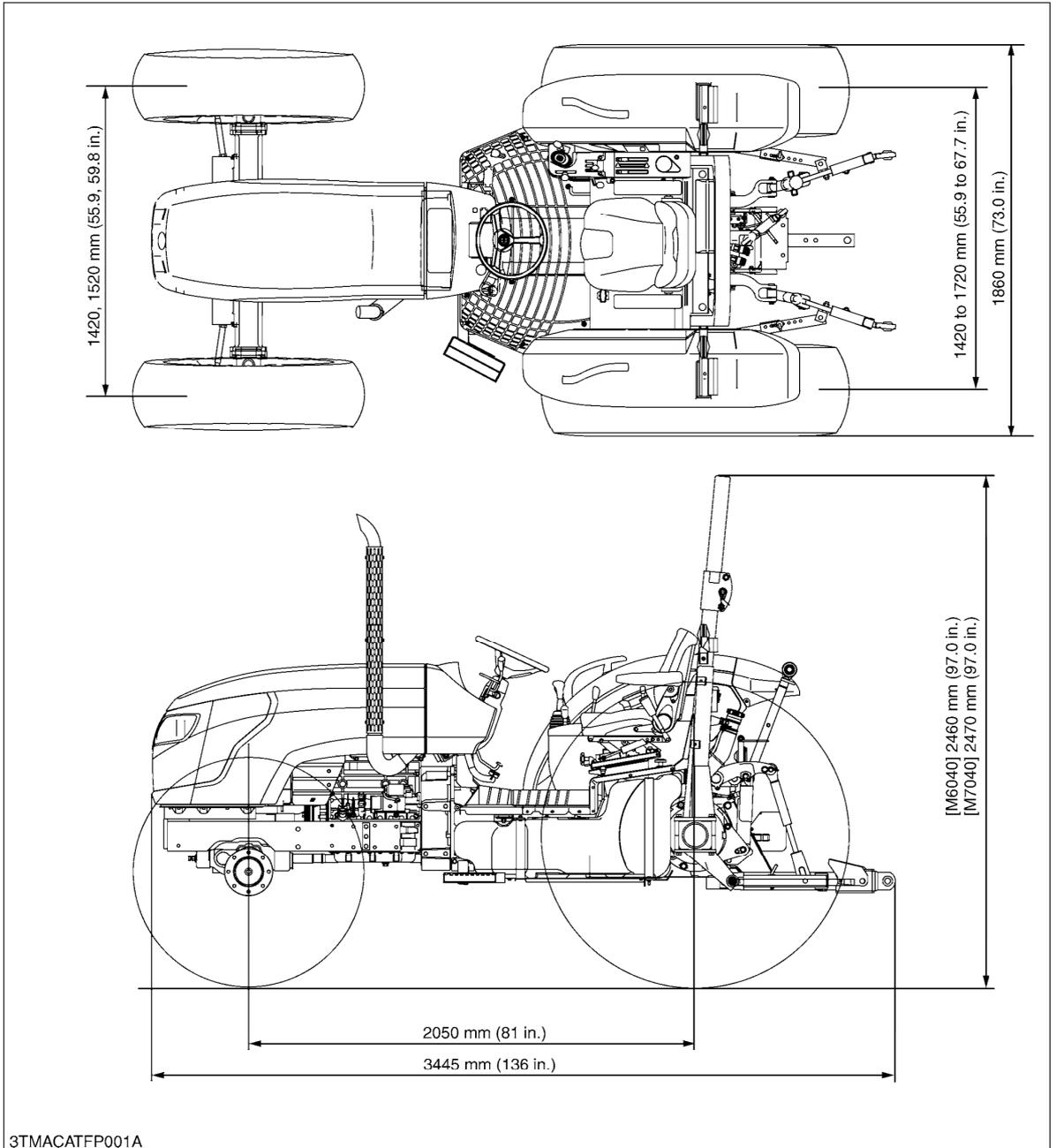
Model			M6040	M7040
Tire size (Rear)			16.9-28	16.9-30
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h (mph)	
Forward	CREEP	1	0.34 (0.21)	0.35 (0.22)
		2	0.48 (0.30)	0.50 (0.31)
		3	0.64 (0.40)	0.67 (0.42)
		4	1.0 (0.65)	1.1 (0.68)
	L	1	2.4 (1.5)	2.5 (1.5)
		2	3.4 (2.1)	3.5 (2.2)
		3	4.5 (2.8)	4.7 (2.9)
		4	7.4 (4.6)	7.7 (4.8)
	H	1	9.3 (5.8)	9.6 (6.0)
		2	13.1 (8.2)	13.6 (8.5)
		3	17.6 (10.9)	18.2 (11.3)
		4	28.6 (17.8)	29.7 (18.5)
Reverse	CREEP	1	0.34 (0.21)	0.35 (0.22)
		2	0.49 (0.30)	0.51 (0.31)
		3	0.65 (0.41)	0.68 (0.42)
		4	1.1 (0.66)	1.1 (0.69)
	L	1	2.4 (1.5)	2.5 (1.6)
		2	3.4 (2.1)	3.6 (2.2)
		3	4.6 (2.9)	4.8 (3.0)
		4	7.5 (4.6)	7.8 (4.8)
	H	1	9.4 (5.8)	9.7 (6.1)
		2	13.3 (8.3)	13.8 (8.6)
		3	17.8 (11.1)	18.5 (11.5)
		4	29.0 (18.0)	30.1 (18.7)

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

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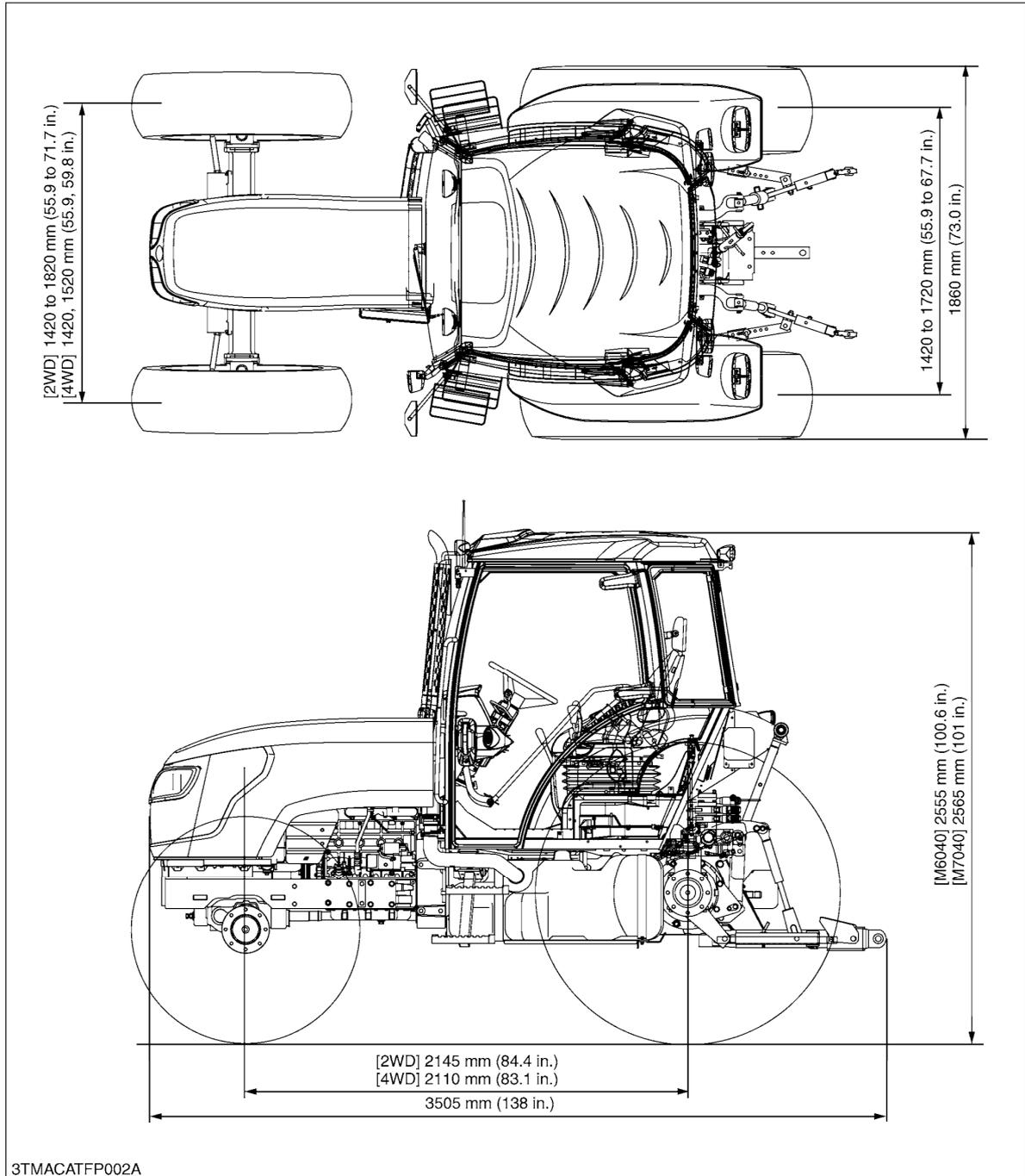
DIMENSIONS

ROPS Model



3TMACATFP001A

CABIN Model



G GENERAL

GENERAL

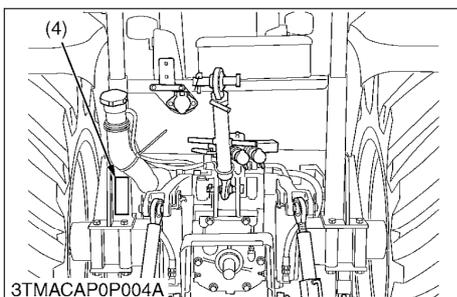
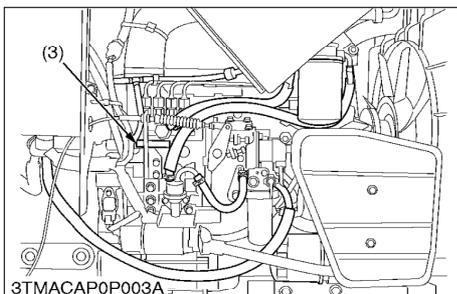
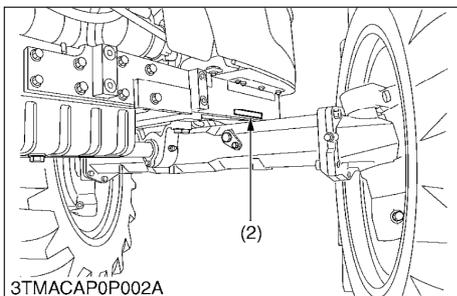
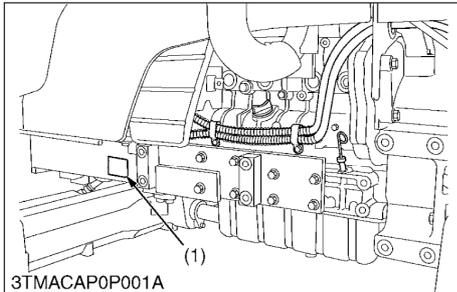
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1. TRACTOR IDENTIFICATION

[1] MODEL NAME AND SERIAL NUMBERS

(1) ROPS Model

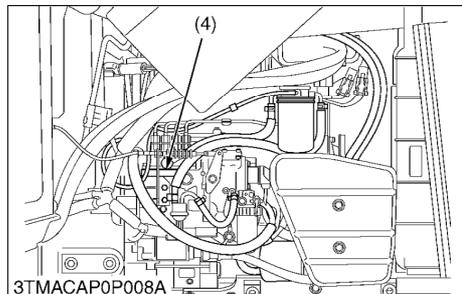
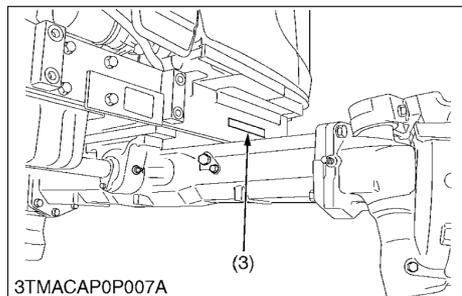
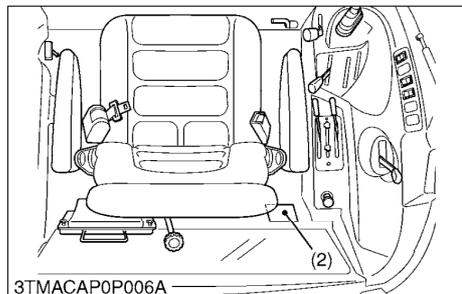
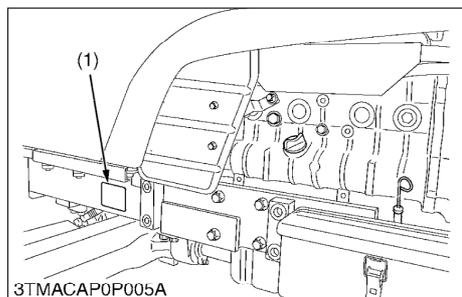


When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hourmeter reading.

- (1) Tractor Identification Plate
- (2) Tractor Serial Number
- (3) Engine Serial Number

- (4) ROPS Identification Plate
(ROPS Serial Number)

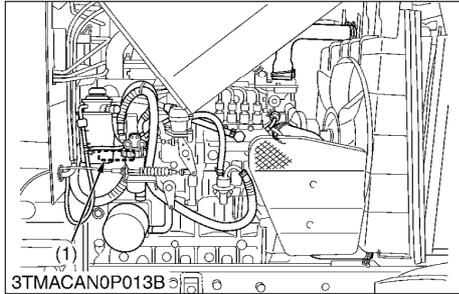
W1030262

(2) CABIN Model

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

W1030474



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

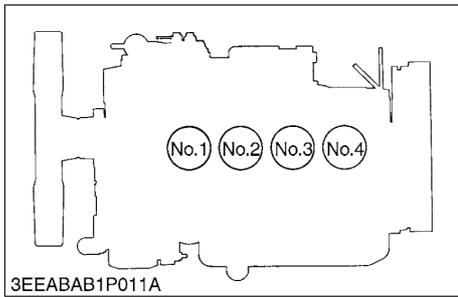
“6” indicates 2006 and “A” indicates January.

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

(1) Engine Model and Serial Number

W1010477

[2] CYLINDER NUMBER

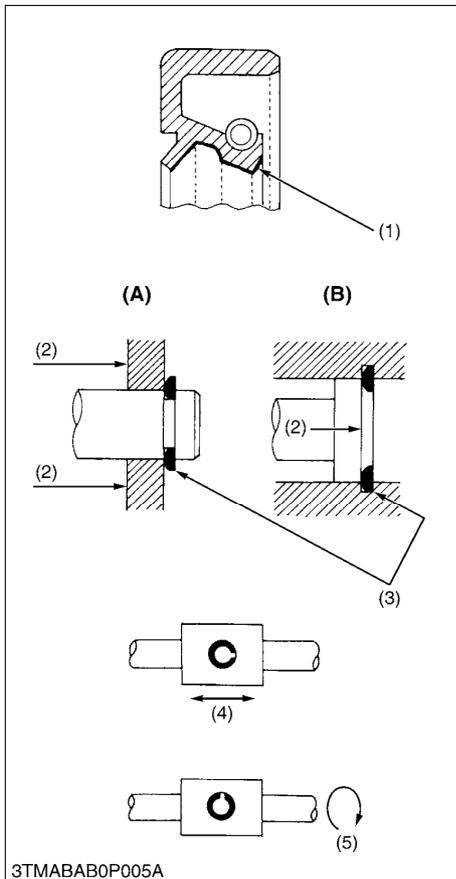


The cylinder numbers of KUBOTA diesel engine is designated as shown in the figure.

The sequence of cylinder numbers is given as No.1, No.2, No.3 and No.4 starting from the front cover side.

W1011077

2. GENERAL PRECAUTIONS



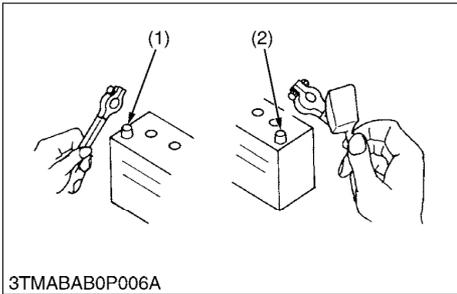
- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws, bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently used should be made according to the drawings provided.
- Before disassembling or servicing electrical wires, always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before measuring.
- Use only KUBOTA genuine parts for parts replacement to maintain machine performance and to assure safety.
- Gaskets and O-rings must be replaced during reassembly. Apply grease to new O-rings or oil seals before assembling. See the figure left side.
- When reassembling external snap rings or internal snap rings, they must be positioned so that sharp edge faces against the direction from which a force is applied. See the figure left side.
- 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.

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

- (A) External Snap Ring
- (B) Internal Snap Ring

W1010904

3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING



3TMABAB0P006A

To ensure safety and prevent damage to the machine and surrounding equipment, heed the following precautions in handling electrical parts and wiring.

■ IMPORTANT

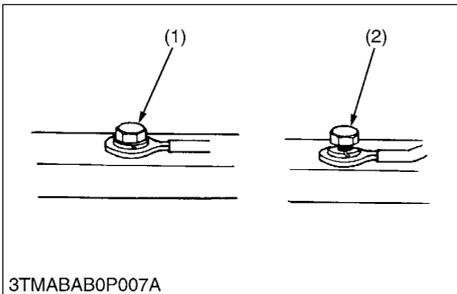
- Check electrical wiring for damage and loosened connection every year. To this end, educate the customer to do his or her own check and at the same time recommend the dealer to perform periodic check for a fee.
- Do not attempt to modify or remodel any electrical parts and wiring.
- When removing the battery cables, disconnect the negative cable first. When installing the battery cables, connect the positive cable first.

(1) Negative Terminal

(2) Positive Terminal

W1011114

[1] WIRING



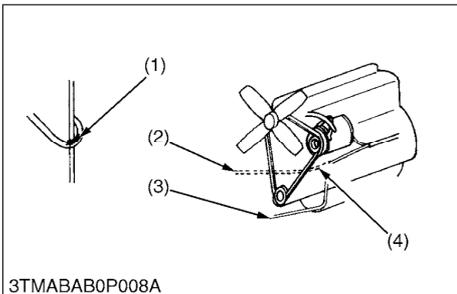
3TMABAB0P007A

- Securely tighten wiring terminals.

(1) Correct
(Securely Tighten)

(2) Incorrect
(Loosening Leads to Faulty Contact)

W1011216



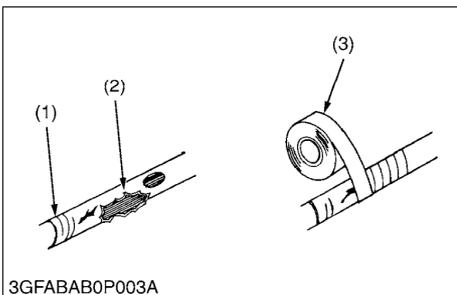
3TMABAB0P008A

- Do not let wiring contact dangerous part.

(1) Dangerous Part
(2) Wiring (Incorrect)

(3) Wiring (Correct)
(4) Dangerous Part

W1011313



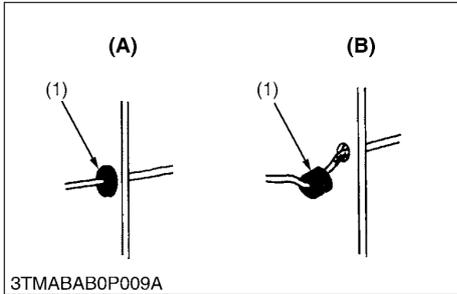
3GFABAB0P003A

- Repair or change torn or aged wiring immediately.

(1) Aged
(2) Torn

(3) Insulating Vinyl Tape

W1012292

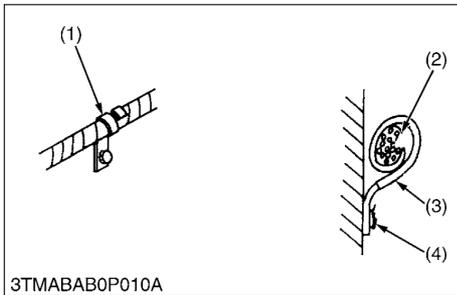


- Securely insert grommet.

(1) Grommet

(A) Correct
(B) Incorrect

W1011388



- Securely clamp, being careful not to damage wiring.

(1) Clamp

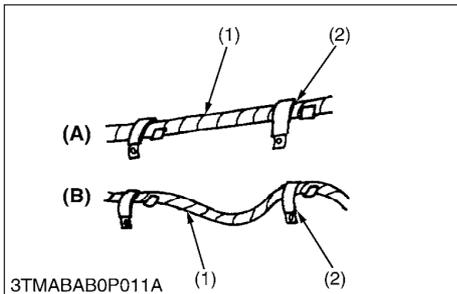
(3) Clamp

- Wind Clamp Spirally

(4) Welding Dent

(2) Wire Harness

W1011458



- Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag be required.

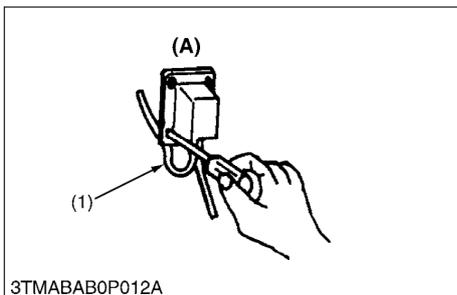
(1) Wiring

(A) Correct

(2) Clamp

(B) Incorrect

W1011587

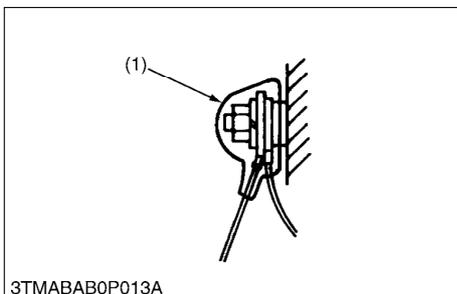


- In installing a part, take care not to get wiring caught by it.

(1) Wiring

(A) Incorrect

W1011670



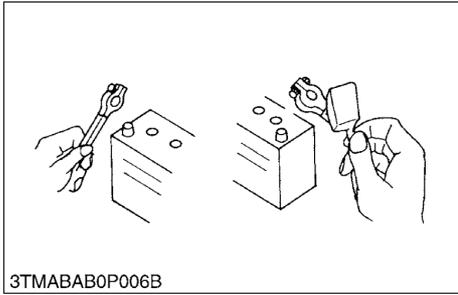
- After installing wiring, check protection of terminals and clamped condition of wiring, only connect battery.

(1) Cover

- Securely Install Cover

W1011735

[2] BATTERY



3TMABAB0P006B

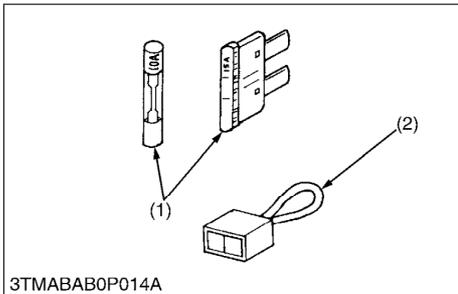
- Take care not to confuse positive and negative terminals.
- When removing battery cable, disconnect negative wire first. When installing battery cable, check for polarity and connect positive wire first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting cable to battery terminals, apply grease to them and securely install terminal covers on them.
- Do not allow dirt and dust to collect on battery.

⚠ CAUTION

- Take care not to let battery liquid spill on your skin and clothes. If contaminated, wash it off with water immediately.
- Before recharging the battery, remove it from the machine.
- Before recharging, remove cell caps.
- Do recharging in a well-ventilated place where there is no open flame nearby, as hydrogen gas and oxygen are formed.

W1011816

[3] FUSE



3TMABAB0P014A

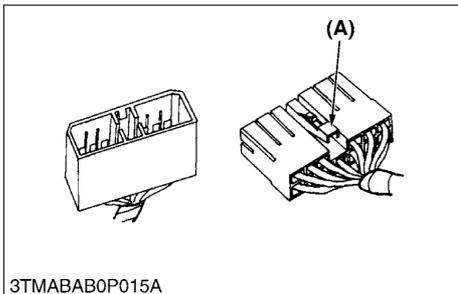
- Use fuses with specified capacity. Neither too large or small capacity fuse is acceptable.
- Never use steel or copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of reserve power supply is exceeded.

(1) Fuse

(2) Slow Blow Fuse

W1012092

[4] CONNECTOR

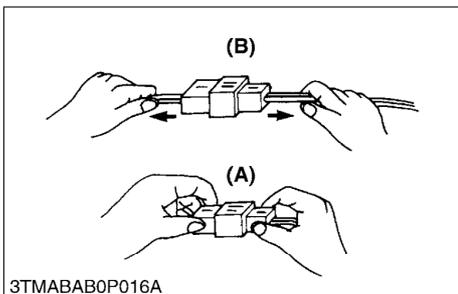


3TMABAB0P015A

- For connector with lock, push lock to separate.

(A) Push

W1012211



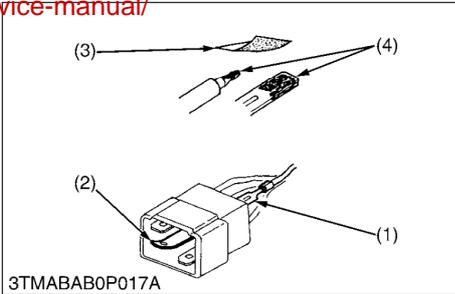
3TMABAB0P016A

- In separating connectors, do not pull wire harnesses.
- Hold connector bodies to separate.

(A) Correct

(B) Incorrect

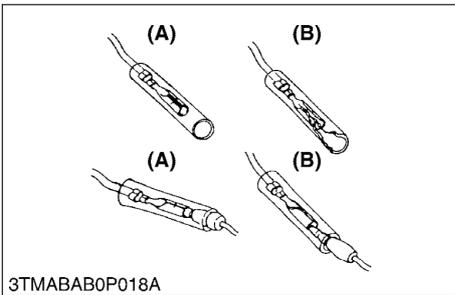
W1012272



- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

(1) Exposed Terminal (3) Sandpaper
 (2) Deformed Terminal (4) Rust

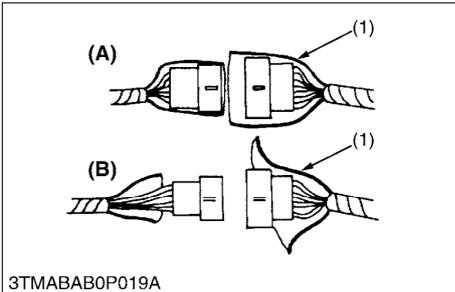
W1012346



- Make certain that there is no female connector being too open.

(A) Correct (B) Incorrect

W1012430

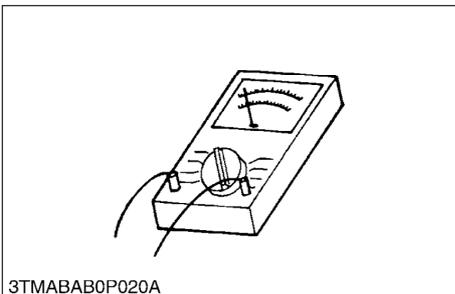


- Make certain plastic cover is large enough to cover whole connector.

(1) Cover (A) Correct (B) Incorrect

W1012519

[5] HANDLING OF CIRCUIT TESTER



- Use tester correctly following manual provided with tester.
- Check for polarity and range.

W1012684