

Product: Kubota B2630HSD B3030HSD B3030HSDC Service Manual

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WSM

WORKSHOP MANUAL TRACTOR

B2630HSD, B3030HSD, B3030HSDC

Kubota

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KISC issued 08, 2018 A

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of B2630HSD, B3030HSD and B3030HSDC for Oceania. 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 (service specifications) and allowable limits (service 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.

June 2005

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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	2018.08	Change the lift arm free play value.	7-S5, 7-S11



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

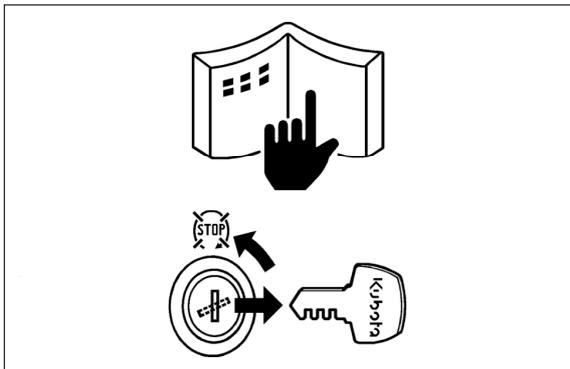
: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

■ IMPORTANT

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

■ NOTE

: Gives helpful information.



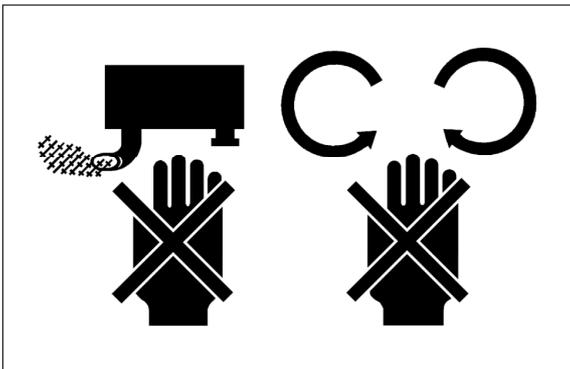
BEFORE SERVICING AND REPAIRING

- 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.



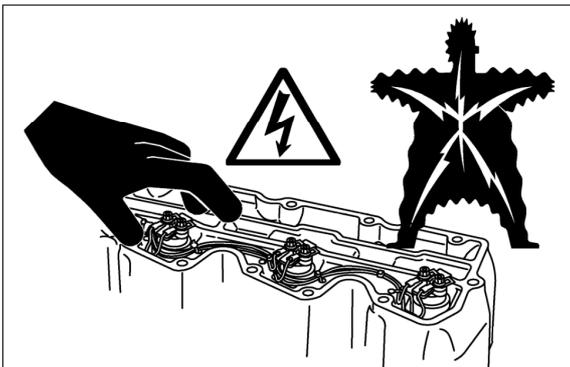
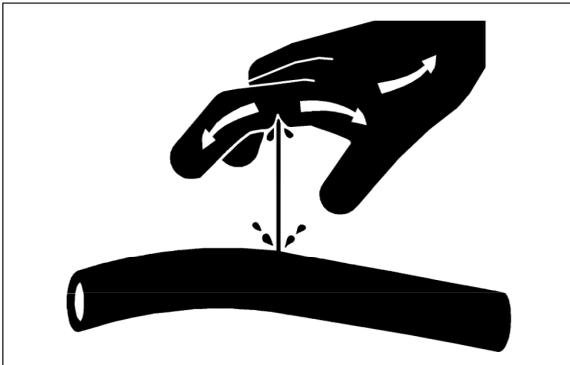
SAFETY STARTING

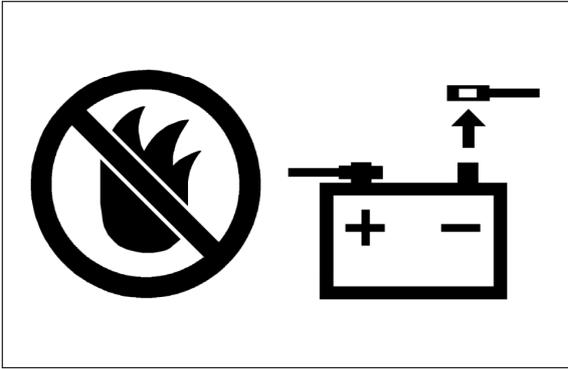
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine 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.
- Do not open high-pressure fuel system. High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt repair fuel lines, sensors, or any other components between the high-pressure fuel pump and injectors on engines with high pressure common rail fuel system.
- High voltage exceeding 100 V is generated in the ECU, and is applied to the injector. Pay sufficient caution to electric shock when performing work activities.





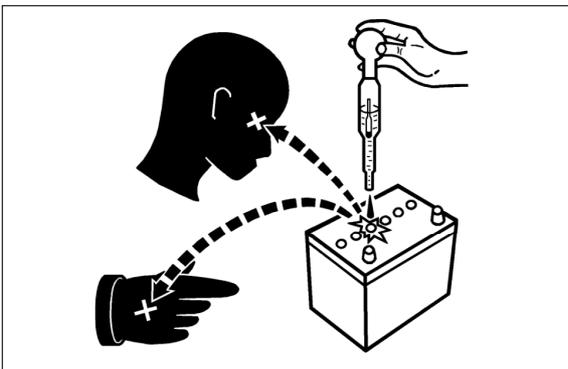
AVOID FIRES

- 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.



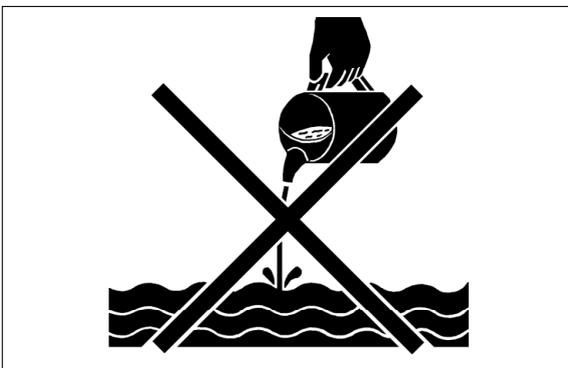
VENTILATE WORK AREA

- 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.



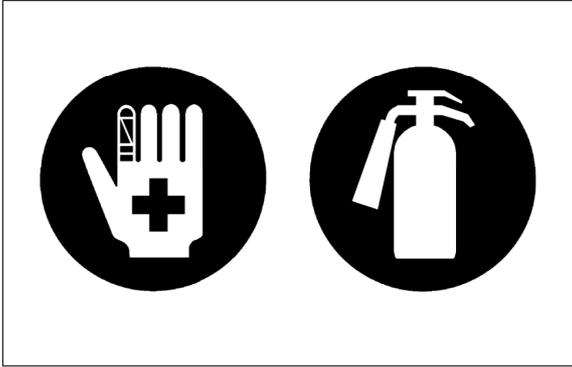
PREVENT ACID BURNS

- 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.

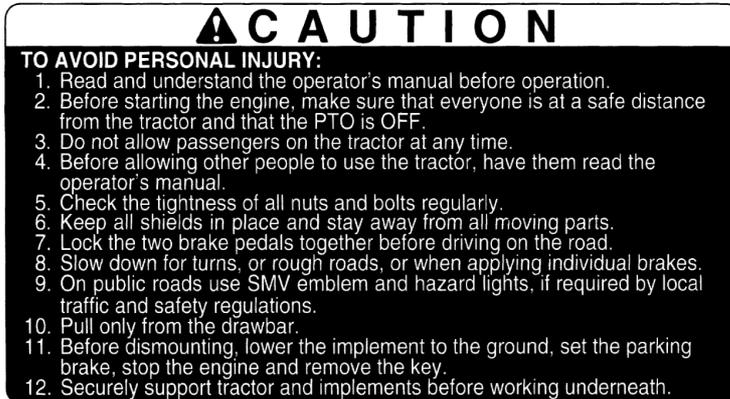
SAFETY DECALS

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.

[1] ROPS AND CABIN

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

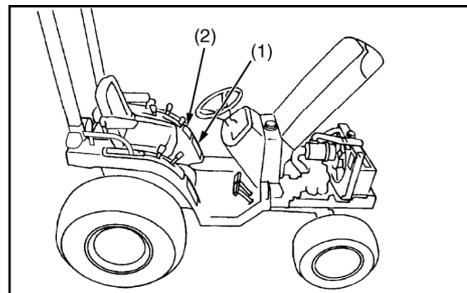


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(2) Part No. 6C150-4743-1

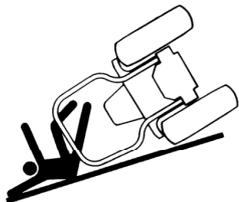


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3TBAAAGCP001A

(1) Part No. TA040-4932-2 [Rigid ROPS type]

 <p>WARNING</p>	<p>TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:</p> <ol style="list-style-type: none"> 1. Kubota recommends the use of a Roll-Over Protective Structures (ROPS) and seat belt in almost all applications. 2. Remove the ROPS only when it substantially interferes with operation or itself presents a safety risk. (Examples include work in orchards and vineyards.) ALWAYS REINSTALL IT BEFORE USING THE TRACTOR IN OTHER APPLICATIONS. 3. Never use just the seat belt or just the ROPS. They must be used together. For further details, consult your Operator's Manual or your local dealer.
	<p>1AGAEBMAP070E</p>

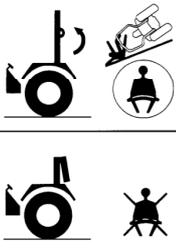
(2) Part No. 32751-4958-1

Stay clear of engine fan and fanbelt



1AGAEBMAP073A

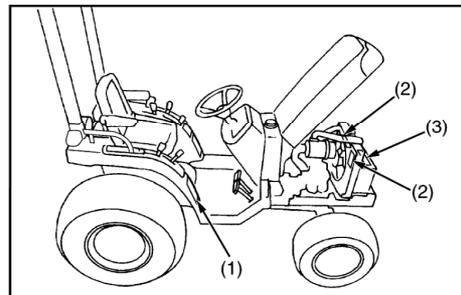
(1) Part No. TA240-9848-1 [Foldable ROPS type]

 <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.
	<p>1AGAEBMAP071E</p>

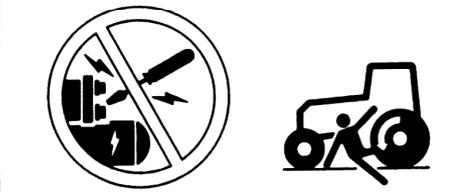
(3) Part No. 6C040-5559-1

<p>DANGER EXPLOSIVE GASES Cigaretts, flames or sparks could cause battery to explode. Always shield and face from battery. Do not charge or use booster cables or adjust post connections without proper instruction and training. KEEP VENT CAPS TIGHT AND LEVEL</p> <p>POISON CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. In event of accident flush with water and call a physician immediately. KEEP OUT OF REACH OF CHILDREN</p>
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1AGAEBMAP072E



(1) Part No. 6C090-4965-1



⚠ 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.

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(2) 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)

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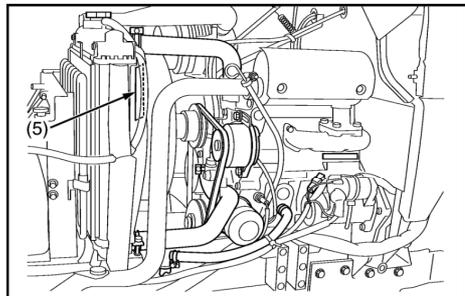
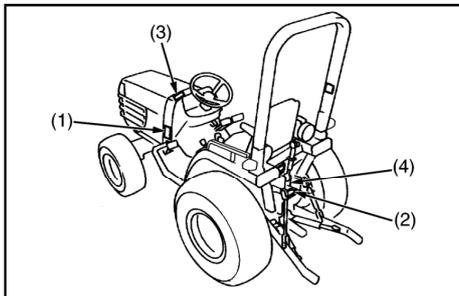
(4) Part No. 6C140-4744-1

⚠ 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.

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3TBAAAGCP003A

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

No fire



1AGAEBMAP077A

(5) Part No. TA040-4958-1

Do not touch hot surface like muffler, etc




1AGAEBMAP078A

(1) Part No. 6C140-4746-1 [Rigid ROPS type]

⚠ WARNING

TO AVOID PERSONAL INJURY:

Do not modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.

1AGAEBMAP079E

(2) Part No. 3A111-6554-1 [Foldable ROPS type]

⚠ WARNING

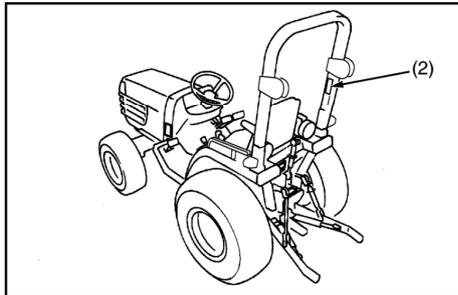
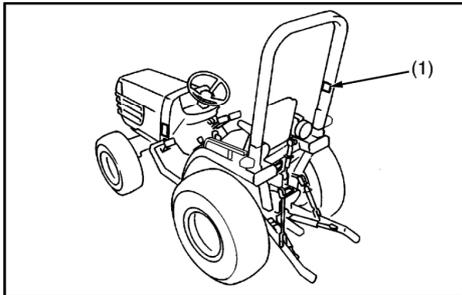
Never modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.

⚠ 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.

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3TBAAAGCP004A

[2] CABIN

(1) Part No. TA040-4902-1

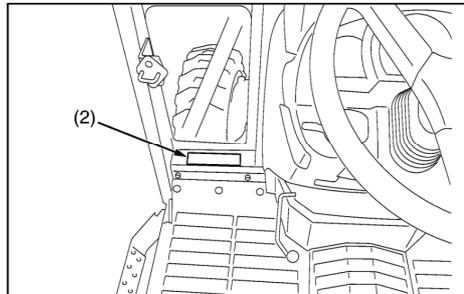
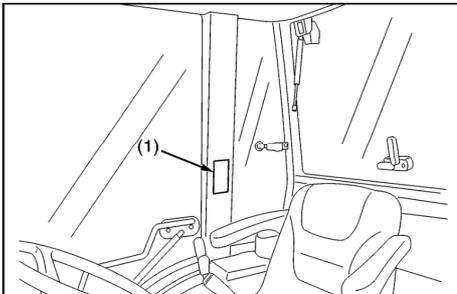


1AGAMAOAP0780

(2) Part No. 6C230-4743-1



1AGAMAOAP0790



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.

3TBAAAGCP008A

SPECIFICATIONS

Model		B2630HSD		B3030HSD		B3030HSDC	
PTO power		14.5 kW (19.5 HP)*		17.1 kW (23.0 HP)*		17.1 kW (23.0 HP)*	
Engine	Maker	KUBOTA					
	Model	D1105-E2/E3-D21		V1505-E2/E3-D21		V1505-E2/E3-D21-Q	
	Type	E-TVCS, water-cooled, 4-cycle diesel					
	Number of cylinders	3		4		4	
	Bore and stroke	78 x 78.4 mm (3.1 x 3.1 in.)					
	Total displacement	1123 cm ³ (68.5 cu.in.)		1498 cm ³ (91.5 cu.in.)		1498 cm ³ (91.5 cu.in.)	
	Engine gross power	19.4 kW (26 HP)*		22.3 kW (30.0 HP)*		22.3 kW (30.0 HP)*	
	Rated revolution	2800 min ⁻¹ (rpm)		2600 min ⁻¹ (rpm)		2600 min ⁻¹ (rpm)	
	Maximum torque	77.6 N·m (57.2 lbf-ft)		98.7 N·m (72.7 lbf-ft)		98.7 N·m (72.7 lbf-ft)	
	Battery	12 V, RC : 79 min, CCA : 433 A					
	Starting system	Electric starting with cell starter 12 V, 1.4 kW					
	Lubricating system	Forced lubrication by trochoidal pump					
	Cooling system	Pressurized radiator, forced circulation with water pump					
Fuel	Diesel fuel No. 2-D [above -10 °C (14 °F)], Diesel fuel No. 1 [below -10 °C (14 °F)]						
Capacities	Fuel tank	31 L (8.1 U.S.gals, 6.8 Imp.gals)					
	Engine crankcase (with filter)	3.0 L (3.2 U.S.qts, 2.6 Imp.qts)		4.1 L (4.3 U.S.qts, 3.6 Imp.qts)		4.1 L (4.3 U.S.qts, 3.6 Imp.qts)	
	Engine coolant	4.5 L (4.7 U.S.qts, 4.0 Imp.qts)				5.2 L (5.5 U.S.qts, 4.6 Imp.qts)	
	Transmission case	15 L (4.0 U.S.gals, 3.3 Imp.qts)					
	Front axle case	4.7 L (5.0 U.S.qts, 4.1 Imp.qts)					
	Tires	Front	Farm: 7 - 12	Turf: 24 x 8.5 - 12	Farm: 7 - 12	Turf: 24 x 8.5 - 12	Farm: 7 - 12
Rear		12.4 - 16	13.6 - 16	12.4 - 16	13.6 - 16	12.4 - 16	13.6 - 16
Dimensions	Overall length (without 3P)	2520 mm (99.2 in.)				2640 mm (103.9 in.)	
	Overall width	1365 mm (53.7 in.)					
	Overall height (with ROPS)	1995 mm (78.5 in.)				2150 mm (84.6 in.)	
	Wheel base	1666 mm (65.6 in.)					
	Minimum ground clearance	370 mm (14.6 in.)					
	Tread	Front	935 mm (36.8 in.)				
Rear		1050 mm (41.3 in.)					

Model		B2630HSD	B3030HSD	B3030HSDC	
Weight (with ROPS)		810 kg (1786 lbs)	840 kg (1852 lbs)	1030 kg (2271 lbs)	
Travelling system	Clutch	N/A			
	Steering	Hydrostatic power steering			
	Transmission	Main-hydrostatic transmission, 3 range gear shift (3 forward and 3 reverse)			
	Brake	Wet disk type			
	Min. turning radius (with brake)	2.1 m (6.9 feet)			
	Differential	Bevel gear			
Hydraulic system	Hydraulic control system	Position control			
	Pump capacity	3P: 21.2 L/min (8.0 gals/min) Power steering: 16.0 L/min (6.1 gals/min)	3P: 19.7 L/min (7.5 gals/min) Power steering: 14.8 L/min (5.6 gals/min)	3P: 19.7 L/min (7.5 gals/min) Power steering: 14.8 L/min (5.6 gals/min)	
	Three point hitch	SAE Category 1			
	Max. lift force	At lift points	970 kg (2139 lbs)		
		24 in. behind lift points	760 kg (1676 lbs)		
PTO system	Rear	PTO shaft	SAE 1-3/8, 6 splines		
		Revolution	1 speed (540 min ⁻¹ (rpm)) at 2768 engine min ⁻¹ (rpm))	1 speed (540 min ⁻¹ (rpm)) at 2592 engine min ⁻¹ (rpm))	
	Mid	PTO shaft	U.S.A. No.5 (KUBOTA 10-tooth) involute spline		
		Revolution	1 speed (2500 min ⁻¹ (rpm)) at 2753 engine min ⁻¹ (rpm))	1 speed (2500 min ⁻¹ (rpm)) at 2600 engine min ⁻¹ (rpm))	1 speed (2500 min ⁻¹ (rpm)) at 2600 engine min ⁻¹ (rpm))

NOTE: * Manufacture's estimate
the company reserves the right to change the specifications without notice.

TRAVELLING SPEEDS

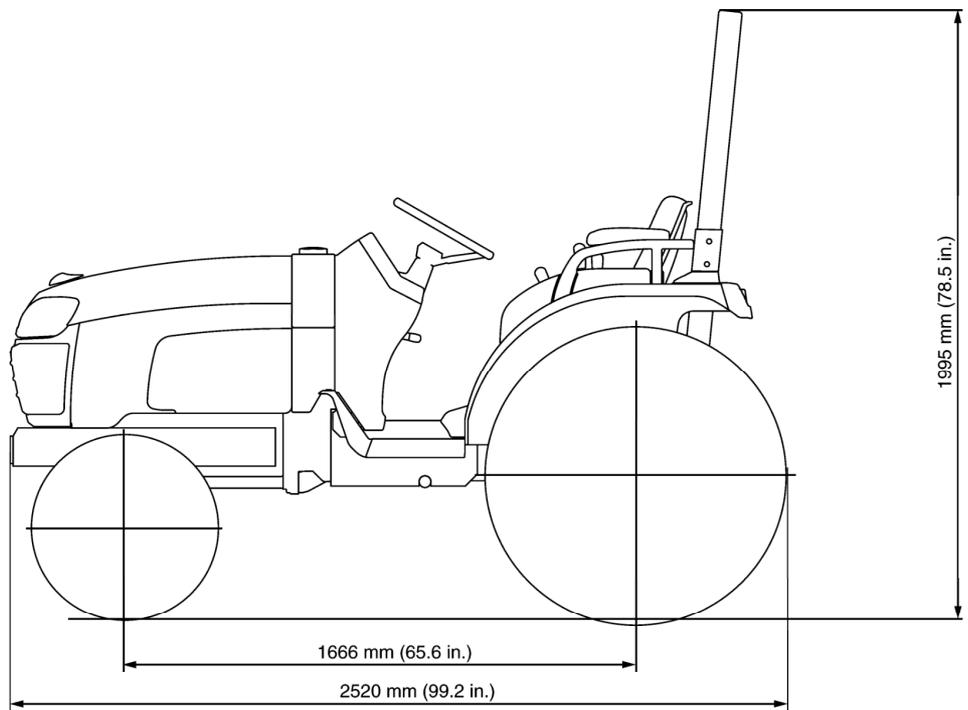
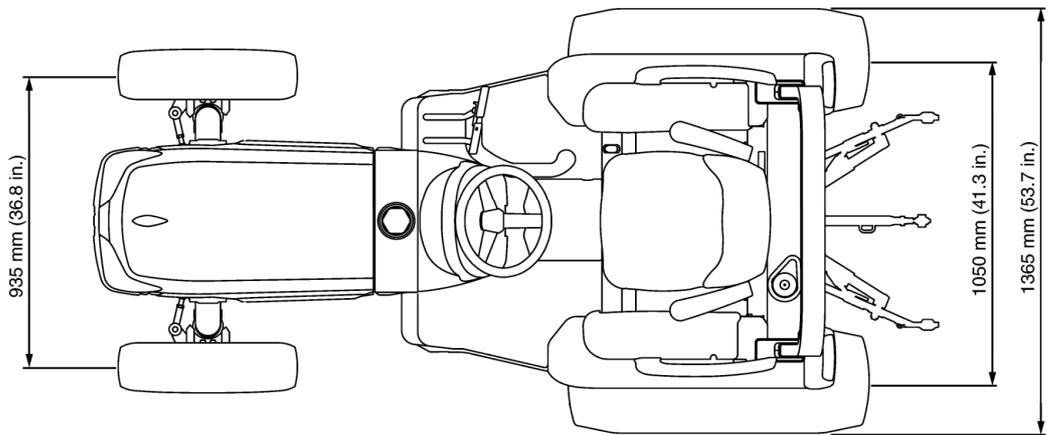
Model		B2630			
Tire Size (Rear)		12.4 - 16 Farm		13.6 - 16 Turf	
	Range gear shift lever	km/h	mph	km/h	mph
Forward	Low	0 to 4.8	0 to 3.0	0 to 4.9	0 to 3.1
	Middle	0 to 8.9	0 to 5.5	0 to 9.1	0 to 5.7
	High	0 to 18.6	0 to 11.5	0 to 19.0	0 to 11.8
Reverse	Low	0 to 3.8	0 to 2.4	0 to 3.9	0 to 2.4
	Middle	0 to 7.1	0 to 4.4	0 to 7.3	0 to 4.5
	High	0 to 14.8	0 to 9.2	0 to 15.2	0 to 9.4

Model		B3030			
Tire Size (Rear)		12.4 - 16 Farm		13.6 - 16 Turf	
	Range gear shift lever	km/h	mph	km/h	mph
Forward	Low	0 to 5.0	0 to 3.1	0 to 5.2	0 to 3.2
	Middle	0 to 9.4	0 to 5.8	0 to 9.6	0 to 6.0
	High	0 to 19.5	0 to 12.1	0 to 20.0	0 to 12.4
Reverse	Low	0 to 4.0	0 to 2.5	0 to 4.1	0 to 2.6
	Middle	0 to 7.4	0 to 4.6	0 to 7.6	0 to 4.7
	High	0 to 15.5	0 to 9.6	0 to 15.9	0 to 9.9

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

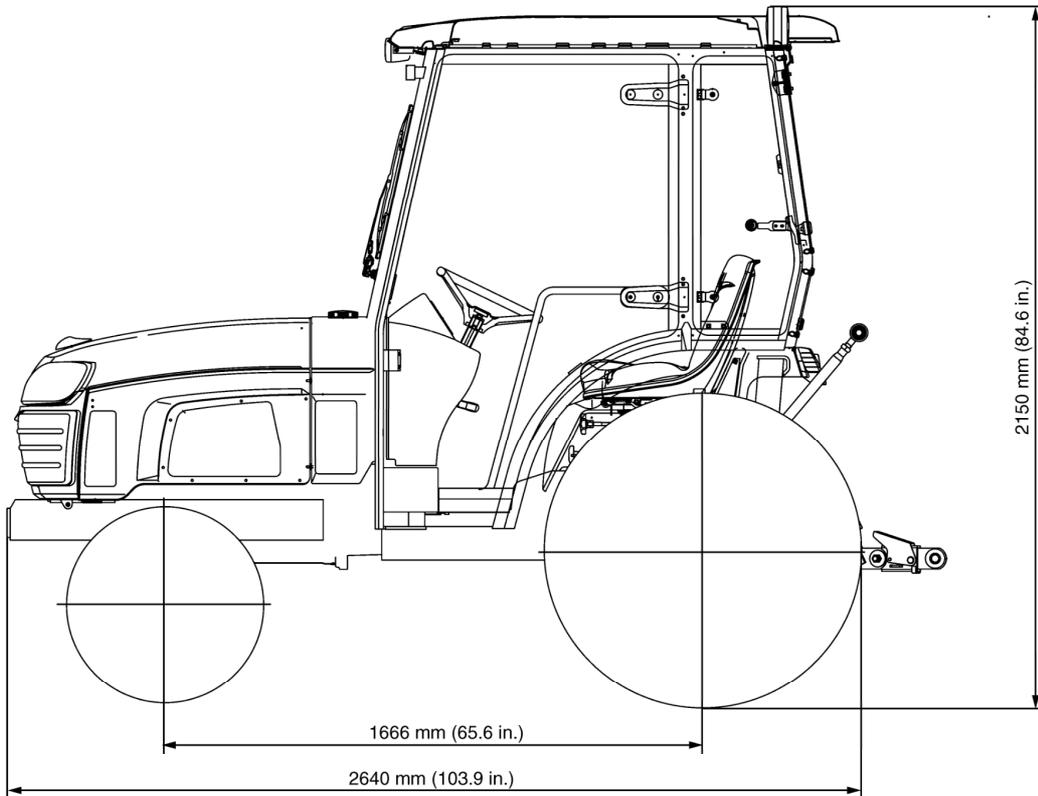
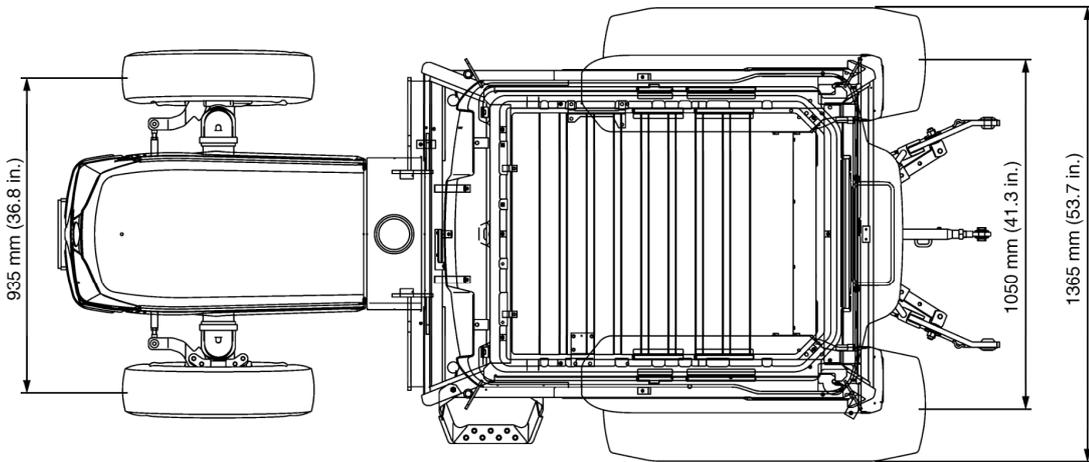
DIMENSIONS

[ROPS]



3TBAAAGFP001B

[CABIN]



3TBAAAGFP002B

G GENERAL

GENERAL

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10. IMPLEMENT LIMITATIONS	G-64

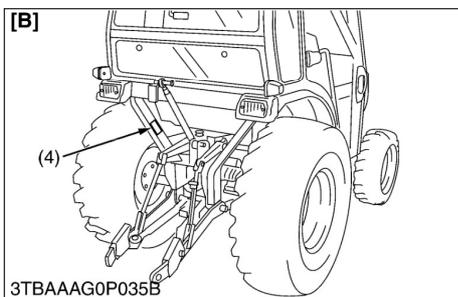
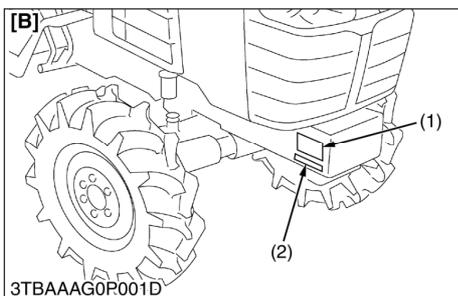
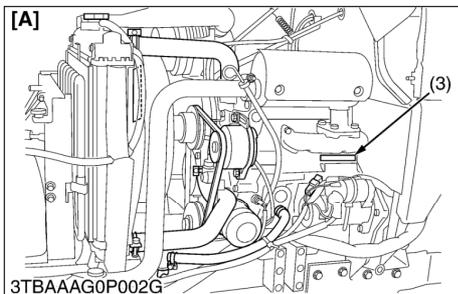
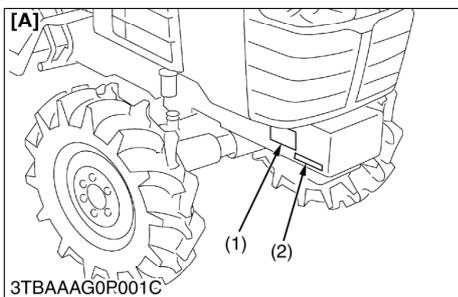
1. TRACTOR IDENTIFICATION

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

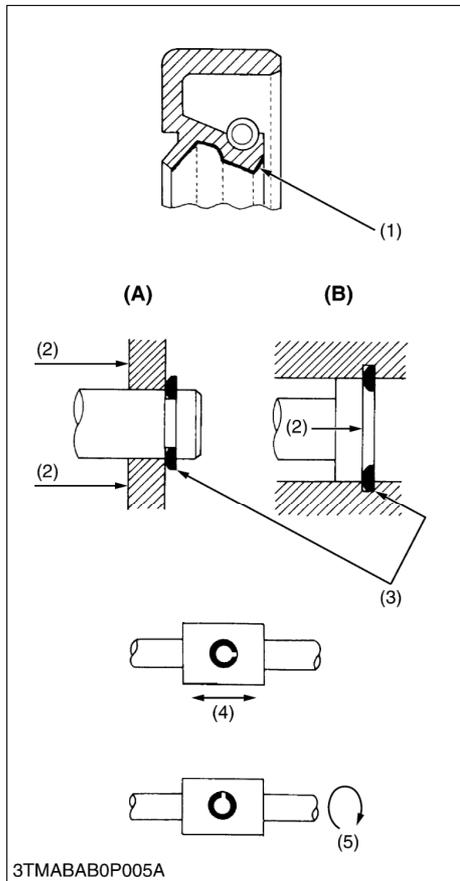
- (1) Tractor Identification Plate
- (2) Tractor Serial Number
- (3) Engine Serial Number
- (4) CABIN Identification Plate (CABIN Serial Number)

- [A] ROPS
- [B] CABIN

W1010597



2. GENERAL PRECAUTION



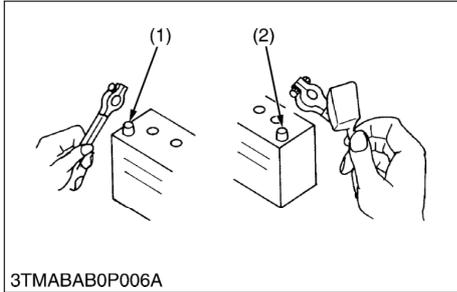
- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws, bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently 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

W1010823

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

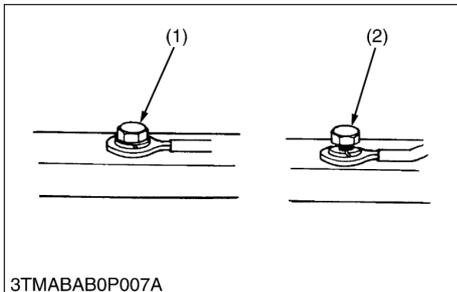
- Check electrical wiring for damage and loosened connection every year. To this end, educate the customer to do his or her own check and at the same time recommend the dealer to perform periodic check for a fee.
- Do not attempt to modify or remodel any electrical parts and wiring.
- When removing the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

(1) Negative Terminal

(2) Positive Terminal

W1011198

[1] WIRING



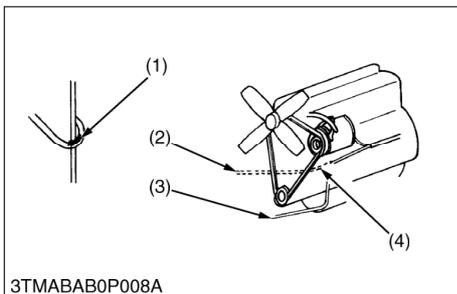
3TMABAB0P007A

- Securely tighten wiring terminals.

(1) Correct
(Securely Tighten)

(2) Incorrect
(Loosening Leads to Faulty Contact)

W1011402



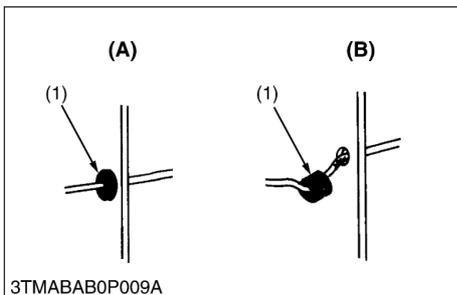
3TMABAB0P008A

- Do not let wiring contact dangerous part.

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

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

W1011530



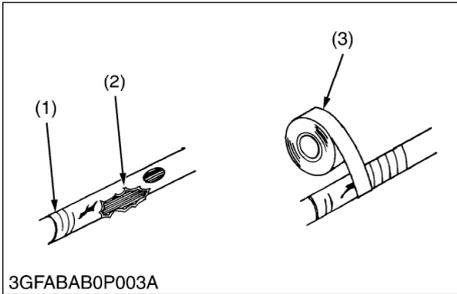
3TMABAB0P009A

- Securely insert grommet.

(1) Grommet

(A) Correct
(B) Incorrect

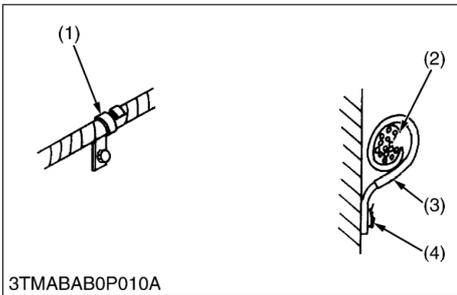
W1011611



• Repair or change torn or aged wiring immediately.

- (1) Aged
- (2) Torn
- (3) Insulating Vinyl Tape

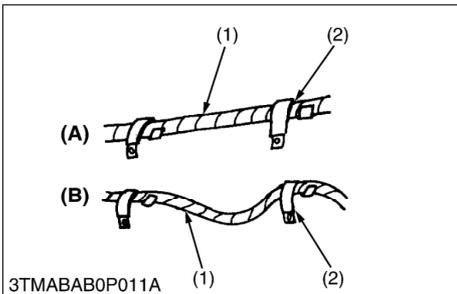
W1011683



• Securely clamp, being careful not to damage wiring.

- (1) Clamp
- (2) Wire Harness
- (3) Clamp
- (4) Welding Dent

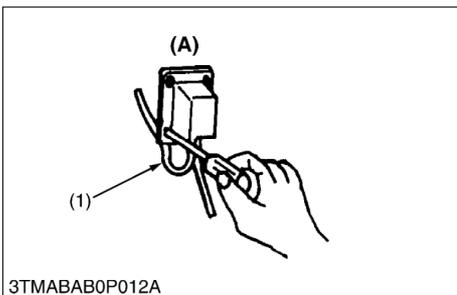
W1011755



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

- (1) Wiring
- (2) Clamp
- (A) Correct
- (B) Incorrect

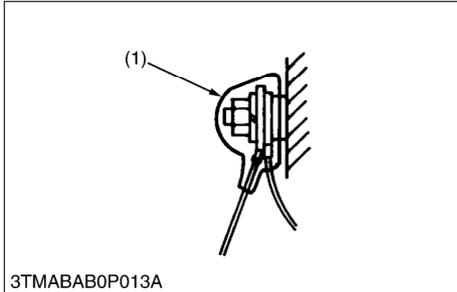
W1011827



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

- (1) Wiring
- (A) Incorrect

W1011899

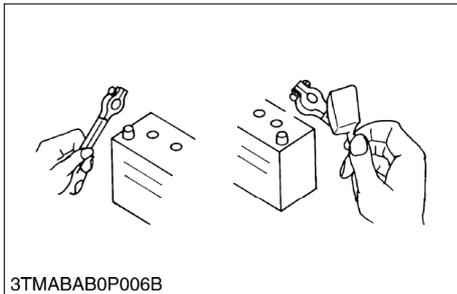


- After installing wiring, check protection of terminals and clamped condition of wiring, only connect battery.

(1) Cover
*Securely Install Cover

W1011971

[2] BATTERY



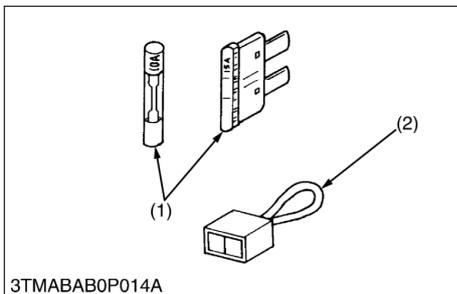
- Take care not to confuse positive and negative terminal posts.
- When removing battery cables, disconnect negative cable first. When installing battery cables, check for polarity and connect positive cable first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting cables to battery terminal posts, apply high temperature 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.**

W1012043

[3] FUSE



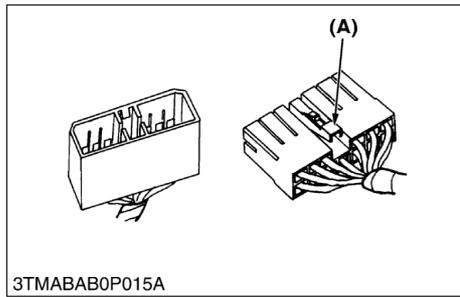
- Use fuses with specified capacity. Neither too large or small capacity fuse is acceptable.
- Never use steel or copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of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

(1) Fuse

(2) Fusible Link

W1012127

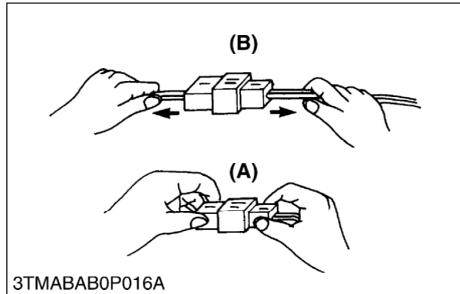
[4] CONNECTOR



- For connector with lock, push lock to separate.

(A) Push

W1012207

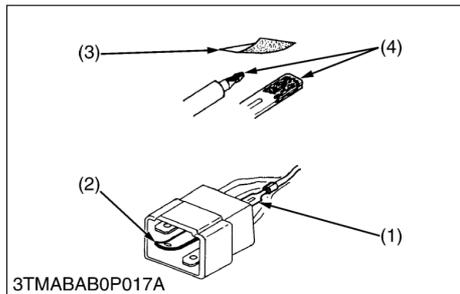


- In separating connectors, do not pull wire harnesses.
- Hold connector bodies to separate.

(A) Correct

(B) Incorrect

W1012279

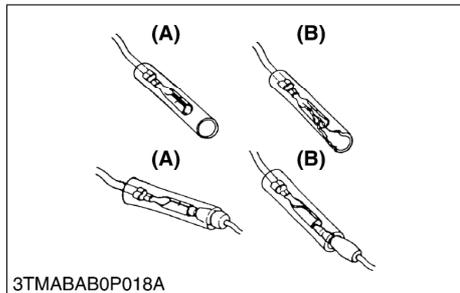


- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

(1) Exposed Terminal
(2) Deformed Terminal

(3) Sandpaper
(4) Rust

W1013297

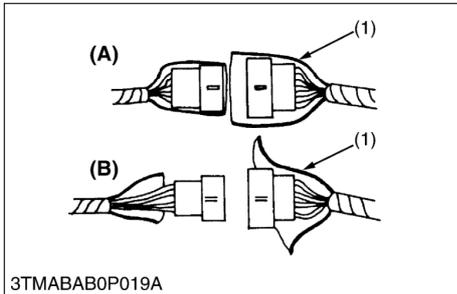


- Make certain that there is no female connector being too open.

(A) Correct

(B) Incorrect

W1016068



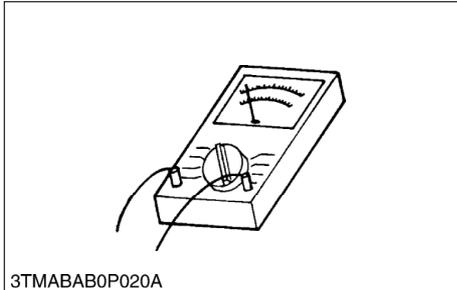
- Make certain plastic cover is large enough to cover whole connector.

(1) Cover

(A) Correct
(B) Incorrect

W1013369

[5] HANDLING OF CIRCUIT TESTER



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

W1013441

4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacity			Lubricants, fuel and coolant
		B2630HSD	B3030HSD	B3030HSDC	
1	Fuel tank	31 L 8.1 U.S.gals 6.8 Imp.gals			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with recovery tank)	4.5 L 4.7 U.S.qts 4.0 Imp.qts		5.2 L 5.5 U.S.qts 4.6 Imp.qts	Fresh clean water with anti-freeze
3	Engine crankcase (with filter)	3.0 L 3.2 U.S.qts 2.6 Imp.qts	4.1 L 4.3 U.S.qts 3.6 Imp.qts		Engine oil: API service CD, CE or CF class Below 0 °C (32 °F) : SAE10W, 10W-30 or 10W-40 0 to 25 °C (32 to 77 °F) : SAE20, 10W-30 or 10W-40 Above 25 °C (77 °F) : SAE30, 10W-30 or 10W-40
4	Transmission case	15 L 4.0 U.S.gals 3.3 Imp.gals			KUBOTA SUPER UDT fluid*
5	Front axle case	4.7 L 5.0 U.S.qts 4.1 Imp.qts			KUBOTA SUPER UDT fluid or SAE80, 90 gear oil
6	Washer liquid tank	-		1.5 L 0.40 U.S.gals 0.33 Imp.gals	Automobile washer liquid
Grease					
	Place	No. of greasing point		Capacity	Type of grease
7	Brake pedal shaft	1		Until grease overflows	Multipurpose type grease
	Top link	1			
	Lift rod [RH]	1			
	Speed control pedal	1			
	Battery terminals	2		Moderate amount	

*KUBOTA original transmission hydraulic fluid.

5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolt and nuts whose tightening torque are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit															
Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	-	-	-	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	108 to 125	11.0 to 12.8	79.6 to 92.5	-	-	-	124 to 147	12.6 to 15.0	91.2 to 108	-	-	-	167 to 196	17.0 to 20.0	123 to 144
M16 (16 mm, 0.63 in.)	167 to 191	17.0 to 19.5	123 to 141	-	-	-	197 to 225	20.0 to 23.0	145 to 166	-	-	-	260 to 304	26.5 to 31.0	192 to 224
M18 (18 mm, 0.71 in.)	246 to 284	25.0 to 29.0	181 to 209	-	-	-	275 to 318	28.0 to 32.5	203 to 235	-	-	-	344 to 402	35.0 to 41.0	254 to 296
M20 (20 mm, 0.79 in.)	334 to 392	34.0 to 40.0	246 to 289	-	-	-	368 to 431	37.5 to 44.0	272 to 318	-	-	-	491 to 568	50.0 to 58.0	362 to 419

W1034542

[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit						
Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	11.8 to 15.6	1.2 to 1.6	8.68 to 11.5	8.82 to 11.8	0.90 to 1.2	6.51 to 8.67
M10 (10 mm, 0.39 in.)	24.6 to 31.3	2.5 to 3.2	18.1 to 23.1	19.7 to 25.4	2.0 to 2.6	14.5 to 18.8
M12 (12 mm, 0.47 in.)	29.5 to 49.0	3.0 to 5.0	21.7 to 36.1	31.4	3.2	23.1

W1024164

6. MAINTENANCE CHECK LIST

No.	Period Items		Indication on hour meter													Interval	Reference page				
			Daily	50	100	150	200	250	300	350	400	450	500	550	600					650	
1	Clogging of air conditioner condenser screen ▲	Clean	☆															Daily	G-14		
2	Engine oil	Change		★	☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-14, 19		
3	Engine oil filter	Replace		★			☆				☆					☆		every 200Hr	G-15, 25		
4	Transmission oil filter	Replace		★					☆							☆		every 300Hr	G-15, 29		
5	Transmission fluid	Change		★					☆							☆		every 300Hr	G-16, 28		
6	Front axle case oil	Change							☆							☆		every 300Hr	G-29		
7	Front axle pivot	Adjust									☆							every 400Hr	G-30		
8	Engine start system	Check		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-17		
9	Greasing	-		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-18		
10	Wheel bolt torque	Check		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-18		
11	Battery condition	Check			☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-20	*4	
12	Air cleaner element [Double element type] Primary element	Clean			☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-22	*1	@
		Replace																	every 1 year	G-33	
	Air cleaner element [Double element type] Secondary element	Replace																	every 1 year	G-33	
13	Fuel filter element	Clean			☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-23		@
		Replace									☆								every 400Hr	G-30	
14	Fan belt	Adjust			☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-23		
15	Brake	Adjust			☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-24		
16	Radiator hose and clamp	Check					☆				☆					☆		every 200Hr	G-25		
		Replace																	every 2 years	G-35	

W1037757

No.	Period Items		Indication on hour meter													Interval	Reference page			
			Daily	50	100	150	200	250	300	350	400	450	500	550	600					650
17	Fuel line	Check			☆		☆		☆		☆		☆		☆		every 100Hr	G-24		@
		Replace																every 2 years	G-35	
18	Intake air line	Check				☆				☆					☆		every 200Hr	G-26		@
		Replace																every 2 years	G-35	
19	Toe-in	Adjust				☆				☆					☆		every 200Hr	G-26		
20	Tension of a air conditioner drive belt ▲	Adjust				☆				☆					☆		every 200Hr	G-27		
21	Clogging of inner air filter ▲	Clean				☆				☆					☆		every 200Hr	G-27		
22	Clogging of fresh air filter ▲	Clean				☆				☆					☆		every 200Hr	G-27		
23	Clogging of air conditioner condenser ▲	Check				☆				☆					☆		every 200Hr	G-28		
24	Engine valve clearance	Adjust															every 800Hr	G-31		
25	Air conditioner pipes and hoses ▲	Check															every 1 year	G-34		
		Replace																every 2 years	G-35	
26	CAB isolation cushion ▲	Check															every 1 year	G-34		
27	Fuel injection nozzle injection pressure	Check															every 1500Hr	G-32		@
28	Cooling system	Flush															every 2 years	G-36		
29	Coolant	Change															every 2 years	G-36		
30	Fuel system	Bleed																	G-38	
31	Clutch housing water	Drain																	G-39	
32	Fuse	Replace																	G-40	
33	Light bulb	Replace																	G-42	
34	Washer liquid ▲	Check																	G-39	
35	Amount of refrigerant (gas) ▲	Check																	G-44	