WORKSHOP MANUAL TRACTOR

B2050,B2350,B2650,B3150

Kubota

TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the B2050, B2350, B2650 and B3150. 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

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.

March, 2014

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INFORMATION

INFORMATION

CONTENTS

1.	SAFETY FIRST	I-1
	SAFETY DECALS	
	SPECIFICATIONS	
	TRAVELING SPEEDS	
	DIMENSIONS	

1. SAFETY FIRST

A 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.

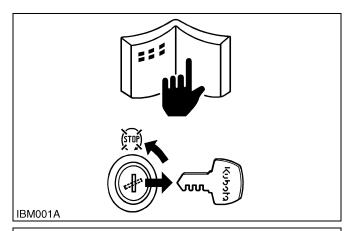
■ IMPORTANT

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

■ NOTE

• Gives helpful information.

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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.

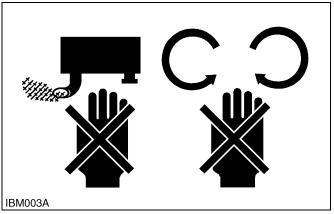
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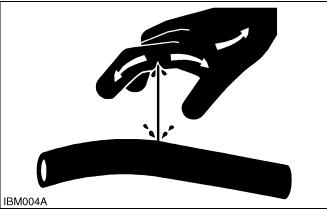
START SAFELY

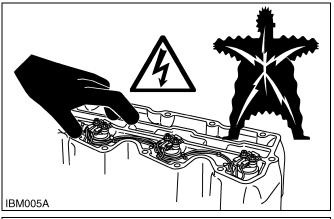
- Do not do the procedures below when you start the engine.
 - short across starter terminals
 - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.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

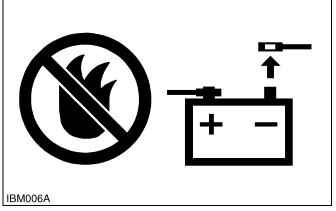
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B2050, B2350, B2650, B3150, WSM INFORMATION









OPERATE SAFELY

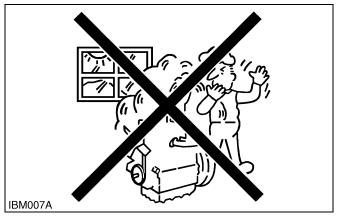
- Do not use the machine after you consume alcohol or medication or when you are tired.
- · Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not operate below 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.

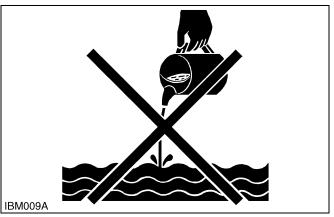
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KEEP A GOOD AIRFLOW IN THE WORK AREA

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

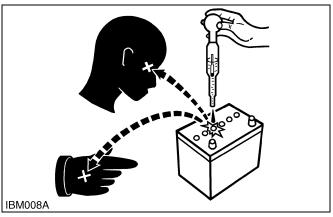
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DISCARD FLUIDS CORRECTLY

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

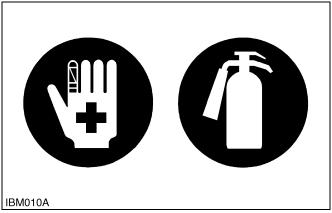
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PREVENT ACID BURNS

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

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PREPARE FOR EMERGENCIES

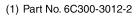
- Keep a first aid kit and fire extinguisher ready at all times
- Keep the emergency contact telephone numbers near your telephone at all times.

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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.

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RC 80(MIN)

⚠ DANGER

DUE 10 MORDORO MA GENEME PROMINITERIN HANDLING WITHOUT CARE CAN CAUSE FIRE HAD EXPLOSED "
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(3) Part No. 6C430-4959-1 Do not touch hot surface like muffler, etc.

45Ah(20HR)

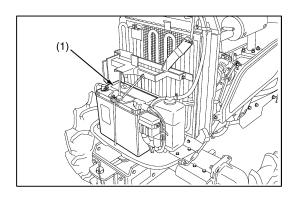


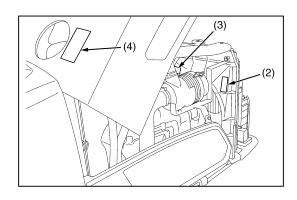
(4) Part No. 3A481-9853-1



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1AGAEEAAP002A





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B2050, B2350, B2650, B3150, WSM **INFORMATION**

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



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



(3) Part No. TD179-3491-1 Carefully read operator's manual before handling the machine.

Observe instructions and safety rules when operating.



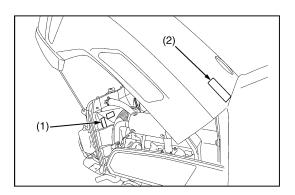
(4) Part No. 6C392-9848-1 Always lock ROPS in upright position unless it has to be folded down to allow operation underneath trees or bushes. When ROPS is locked in upright position, seat belt should be used.

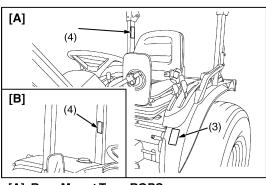


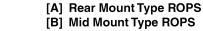
(5) Part No. 3P903-4902-1 Seat belt should be used.

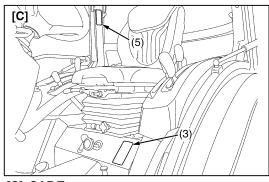












[C] CAB Type

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B2050, B2350, B2650, B3150, WSM INFORMATION

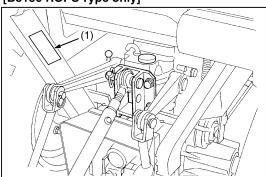
(1) Part No. 6C482-4711-1

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

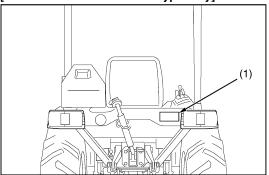


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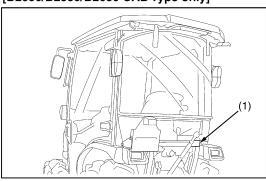
[B3150 ROPS Type only]



[B2050/B2350/B2650 ROPS Type only]



[B2050/B2350/B2650 CAB Type only]



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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.

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3. SPECIFICATIONS

[ROPS and CAB HST Type]

B2050, B2350, B2650, B3150, WSM

	Model		B2350	B2650	B3150			
PTO power *1			12.5 kW (17.0 PS)	14.6 kW (19.9 PS)	17.4 kW (23.6 PS)			
	Maker		KUBOTA					
	Model		D1105	V1505				
	Туре		Indirect Inj	ection. Vertical, water-cooled,4c	ycle diesel			
	Number of cylin	nders	3	3	4			
	Dara and strak		78 × 78.4 mm	78 × 78.4 mm				
	Bore and stroke	e	(3.07 × 3.08 in.)	(3.07 × 3.46 in.)	(3.07 × 3.08 in.)			
Engine	Total displacem	nent	1123 cm³ (68.53 cu.in.)	1261 cm ³ (76.95 cu.in.)	1498 cm ³ (91.41 cu.in.)			
Liigiile	Engine gross p	ower *1	15.9 kW (21.6 PS) 18.5 kW (25.2 PS)		21.8 kW (29.6 PS)			
	Rated revolution	on		2500 min ⁻¹ (rpm)				
	Maximum torqu	10	71.3 N·m 84.0 N·m 97.9 N					
	Maximum torqu	ie –	(7.27 kgf·m, 52.6 lbf·ft) (8.57 kgf·m, 62.0 lbf·ft)		(9.98 kgf·m, 72.2 lbf·ft)			
	Battery		12 V, RC : 80	0 min, CCA (SAE): 430 A, CCA	(EN): 360 A			
	Fuel		Dies	sel fuel No.2 [above -10 °C (14	°F)],			
	i dei		Die	sel fuel No.1 [below -10 °C (14	°F)]			
	Fuel tank			27 L (7.1 U.S.gals, 5.9 Imp.gals))			
	Engine crankca	ase (with filter)	3.1 L	401 (42115)	gts, 3.5 Imp.gts)			
Capacities		,	(3.3 U.S.qts, 2.7 Imp.qts)	,	, -:•p.q.o/			
	Engine coolant			4.6 L (4.9 U.S.qts, 4.0 Imp.qts)				
	Transmission of	ase		.0 L (4.49 U.S.gals, 3.74 Imp.ga				
	Overall length	ROPS	2730 mm	` '	2937 mm (115.6 in.)			
	(with 3P)	CAB	2887 mm	(113.7 in.)	3007 mm (118.4 in.)			
	Overall width (r	min. tread)	1249 mm	(49.17 in.)	1365 mm (53.74 in.)			
	Overall height	Rear ROPS	2353 mm (92.64 in.)		2327 mm (91.61 in.)			
Dimensions	Overall fleight	CAB	2112 mm (83.15 in.)		2140 mm (84.25 in.)			
Dimensions	\A/baal baaa	ROPS	1500 mm (59.06 in.)		1666 mm (65.59 in.)			
	Wheel base	CAB	1560 mm (61.42 in.)		1666 mm (65.59 in.)			
	Minimum grour	nd clearance	290 mm	318 mm (12.5 in.)				
		Front	830 mm (32.7 in.)		936 mm (36.8 in.)			
	Tread	Rear	1006 mm (39.61 in.)		1050 mm (41.34 in.)			
	Rear ROPS		839 to 865 kg (1850 to 1900 lbs)		908 to 934 kg (2010 to 2050 lbs)			
Weight	CAB		1082 to 1108 kg (1124 to 1150 kg (2478 to 2535 lbs)				
Clutch				N/A	(2110 to 2000 100)			
		Front	6.00		180/85D12			
	Tires	Rear	9.5-18		12.4-16			
	Steering		hydraulic power steering					
Traveling	Transmission		Main-hydrostatic transmission, 3 range gear shift					
system	Brake		Wet disk type					
	Minimum turnir	ng radius (with	2.1 m (6.9 feet)					
	brake)	al avators						
	Hydraulic contr	-	Position Control					
	Pump capacity		3P : 18.9 L/min (4.99 gals/min), Power steering : 14.2 L/min (3.75 gals/min)					
	3-point hitch			SAE Category 1				
Uvdroulio veit		At lift points		970 kg (2138 lbs)				
Hydraulic unit	Max. lift force	600 mm behind lift point	760 kg (1676 lbs)					
	Remote hydraulic control		2 Standard					
	Remote control valve coupler		Hose connection type outlet					
	Remote contro	a o ooupioi						
				SAE 1-3/8, 6 splines				
	Remote contro	PTO / Engine						
		PTO / Engine	5	640 min ⁻¹ (rpm) / 2400 min ⁻¹ (rpm	n)			
PTO	Rear-PTO	PTO / Engine speed		40 min ⁻¹ (rpm) / 2400 min ⁻¹ (rpm	<u> </u>			
PTO			USA N		spline			

	Model		B2350	B2650	B3150		
The level of protection against ROPS		ROPS	N/A				
hazardous sub	stances *2	CAB	Category 1				
		ROPS	84.5 dB (A)	85.8 dB (A)	85.0 dB (A)		
Noise at the op	perator's ear *3	CAB/door closed	81.2 dB (A)	85.0 dB (A)	83.0 dB (A)		
		CAB/door opened	82.8 dB (A)	85.8 dB (A)	82.0 dB (A)		
Noise of the tra	actor in motion	ROPS	80 dB (A)	80 dB (A)	80 dB (A)		
*4		CAB	80 dB (A)	80 dB (A)	82 dB (A)		
	GRAMMER	Light driver		1.13 m/s ²			
	MSG 83/511	Heavy driver		1.00 m/s ²			
	GRAMMER	Light driver		1.21 m/s ²			
	MSG 93/511	Heavy driver	1.05 m/s ²				
Value of the vibration level	SEARS 807	Light driver		1.06 m/s ²			
*5	SEARS 607	Heavy driver	1.24 m/s ²				
Ü	CEADO 020	Light driver		1.00 m/s ²			
	SEARS 830	Heavy driver	1.14 m/s ²				
	COBO	Light driver		1.13 m/s ²			
	SC74/M91 *6	Heavy driver		0.75 m/s ²			

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

- NOTE*1 : Manufacturer's estimate
 - *2 : According to EN 15695-1:2009
 - *3: Measured according to Directive 2009/76/EC ANNEX II
 - *4 : Measured according to Directive 2009/63/EC
 - *5 : Measured according to Directive 78/764/EEC
 - *6 : Except CAB model.

ROPS Manual Transmission Type

	Model		B2050	B2350	B2650			
PTO power *1			11.9 kW (16.2 PS)	13.0 kW (17.7 PS)	15.1 kW (20.5 PS)			
	Maker		•	KUBOTA	· · · · · · · · · · · · · · · · · · ·			
	Model		D1°	105	D1305			
	Туре		Indirect Inj	ection. Vertical, water-cooled,4c	ycle diesel			
	Number of cylin	nders	<i>,</i>	3				
	Bore and strok	е	78 × 78.4 mm (3.07 × 3.08 in.)	78 × 88 mm (3.07 × 3.46 in.)			
	Total displacen	nent	1123 cm ³ (6	88.53 cu.in.)	1261 cm ³ (76.95 cu.in.)			
Engine	Engine gross p		14.6 kW (19.8 PS)	15.9 kW (21.6 PS)	18.5 kW (25.2 PS)			
	Rated revolution		()	2500 min ⁻¹ (rpm)	(==== : =)			
			68.1 N·m	71.3 N·m	84.0 N·m			
	Maximum torqu	ie	(6.4 kgf·m, 50.2 lbf·ft)	(7.27 kgf·m, 52.6 lbf·ft)	(8.57 kgf·m, 62.0 lbf·ft)			
	Battery			0 min, CCA (SAE) : 430 A, CCA				
	Fuel			sel fuel No.2 [above -10 °C (14 °				
	ruei			sel fuel No.1 [below -10 °C (14				
	Fuel tank			27 L (7.1 U.S.gals, 5.9 Imp.gals)	1			
Capacities	Engine crankca	ase (with filter)	3.1 L (3.3 U.S.d	ıts, 2.7 Imp.qts)	4.0 L (4.2 U.S.qts, 3.5 Imp.qts			
	Engine coolant			4.6 L (4.9 U.S.qts, 4.0 Imp.qts)				
	Transmission of			.5 L (4.36 U.S.gals, 3.63 lmp.ga	ls)			
	Overall length	(with 3P)		2730 mm (107.5 in.)	·			
	Overall width (1249 mm (49.17 in.)				
	·	Rear ROPS		2353 mm (92.64 in.)				
	Overall height	Center ROPS	2069 mm (81.46 in.)		2069 mm (81.46 in.)			
Dimensions	Wheel base		, ,	1500 mm (59.06 in.)	, ,			
	Minimum ground clearance		290 mm (11.4 in.)					
		Front	830 mm (32.7 in.)					
	Tread Rear ROPS			1006 mm (39.61 in.)				
			819 to 845 kg (1810 to 1860 lbs)					
Weight			839 to 865 kg	5 (839 to 865 kg			
-	Center ROPS		(1850 to 1900 lbs)	-	(1850 to 1900 lbs)			
Clutch				Dry single plate				
	Tiros	Front		6.00-12				
	Tires	Rear		9.5-18				
Traveling	Steering			hydraulic power steering				
system	Transmission		G	ear shift, 9 foreword and 9 revers	se			
-,	Brake		Wet disk type					
	Minimum turning radius (with brake)		2.1 m (6.9 feet)					
	Hydraulic contr	ol system	Position Control					
	Pump capacity		3P: 18.9 L/min (4.99 gals/min), Power steering: 14.2 L/min (3.75 gals/min)					
	3-point hitch			SAE Category 1				
		At lift points		970 kg (2138 lbs)				
Hydraulic unit	Max. lift force	600 mm behind lift	760 kg (1676 lbs)					
		point						
	Remote hydraulic control		1 Standard					
	Remote contro	l valve coupler	Block type outlet					
	Rear-PTO		SAE 1-3/8, 6 splines					
		PTO / Engine	540 min ⁻¹ (rpm) / 2400 min ⁻¹ (rpm)					
PTO		speed						
	Mid-PTO		USA N	lo.5 (KUBOTA 10-tooth) involute	spline			
		PTO / Engine speed	2!	n)				
The level of pro substances *2	otection against	hazardous		N/A				
Noise at the operator's ear *3			83.5 dB (A)	83.5 dB (A)	85.4 dB (A)			
Noise at the op								

	Model		B2050	B2350	B2650
	GRAMMER	Light driver		1.13 m/s ²	
	MSG 83/511	Heavy driver		1.00 m/s ²	
	GRAMMER	Light driver		1.21 m/s ²	
	MSG 93/511	Heavy driver		1.05 m/s ²	
Value of the vibration level	SEARS 807	Light driver		1.06 m/s ²	
*5		Heavy driver		1.24 m/s ²	
	SEARS 830	Light driver		1.00 m/s ²	
	SEARS 630	Heavy driver		1.14 m/s ²	
	СОВО	Light driver		1.13 m/s ²	
	SC74/M91	Heavy driver		0.75 m/s ²	

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

■ NOTE

- *1 : Manufacturer's estimate
 - *2 : According to EN 15695-1:2009
 - *3 : Measured according to Directive 2009/76/EC ANNEX II
 - *4 : Measured according to Directive 2009/63/EC
 - *5 : Measured according to Directive 78/764/EEC

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4. TRAVELING SPEEDS

[ROPS and CAB HST Type]

(At rated engine rpm)

Model		B2350 / B2650				
Tire	Tire size (Rear)		9.5-16 Farm	9.5-18 Farm	31 × 13.5-15 Turf	315/75D-15 Turf
	Range gear shift lever			km/h (mile/h)		
	Low	0 to 4.61 (0 to 2.86)	0 to 4.94 (0 to 3.06)	0 to 5.24 (0 to 3.25)	0 to 4.55 (0 to 2.82)	0 to 4.98 (0 to 3.09)
Forward	Middle	0 to 7.57 (0 to 4.70)	0 to 8.09 (0 to 5.02)	0 to 8.59 (0 to 5.33)	0 to 7.46 (0 to 4.63)	0 to 8.17 (0 to 5.07)
Forward	High	0 to 19.12 (0 to 11.88)	0 to 20.45 (0 to 12.70)	0 to 21.71 (0 to 13.48)	0 to 18.85 (0 to 11.71)	0 to 20.65 (0 to 12.83)
	Max. Speed (at 2650 engine rpm)	20.27 (12.59)	21.68 (13.47)	23.01 (14.29)	19.98 (12.41)	21.89 (13.60)
	Low	0 to 3.69 (0 to 2.29)	0 to 3.95 (0 to 2.45)	0 to 4.19 (0 to 2.60)	0 to 3.64 (0 to 2.26)	0 to 3.99 (0 to 2.47)
Reverse	Middle	0 to 6.05 (0 to 3.75)	0 to 6.48 (0 to 4.02)	0 to 6.87 (0 to 4.26)	0 to 5.97 (0 to 3.70)	0 to 6.54 (0 to 4.06)
INGVEISE	High	0 to 15.29 (0 to 9.500)	0 to 16.36 (0 to 10.16)	0 to 17.37 (0 to 10.79)	0 to 15.08 (0 to 9.370)	0 to 16.52 (0 to 10.26)
	Max. Speed (at 2650 engine rpm)	16.21 (10.07)	17.34 (10.77)	18.41 (11.44)	15.98 (9.930)	17.51 (10.88)

	Model	В3	150
Tire	e size (Rear)	12.4-16 Farm	13.6-16 Turf
	Range gear shift lever	km/h (mile/h)
	Low	0 to 5.57 (0 to 3.46)	0 to 5.76 (0 to 3.57)
	Middle	0 to 9.14 (0 to 5.67)	0 to 9.44 (0 to 5.87)
Forward	High	0 to 23.09 (0 to 14.35)	0 to 23.86 (0 to 14.83)
	Max. Speed (at 2650 engine rpm)	24.48 (15.21)	25.29 (15.71)
	Low	0 to 4.46 (0 to 2.77)	0 to 4.60 (0 to 2.86)
	Middle	0 to 7.31 (0 to 4.51)	0 to 7.55 (0 to 4.69)
Reverse	High	0 to 18.47 (0 to 11.48)	0 to 19.08 (0 to 11.86)
	Max. Speed (at 2650 engine rpm)	19.58 (12.17)	20.23 (12.57)

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

B2050, B2350, B2650, B3150, WSM INFORMATION

[ROPS Manual Transmission Type]

(At rated engine rpm)

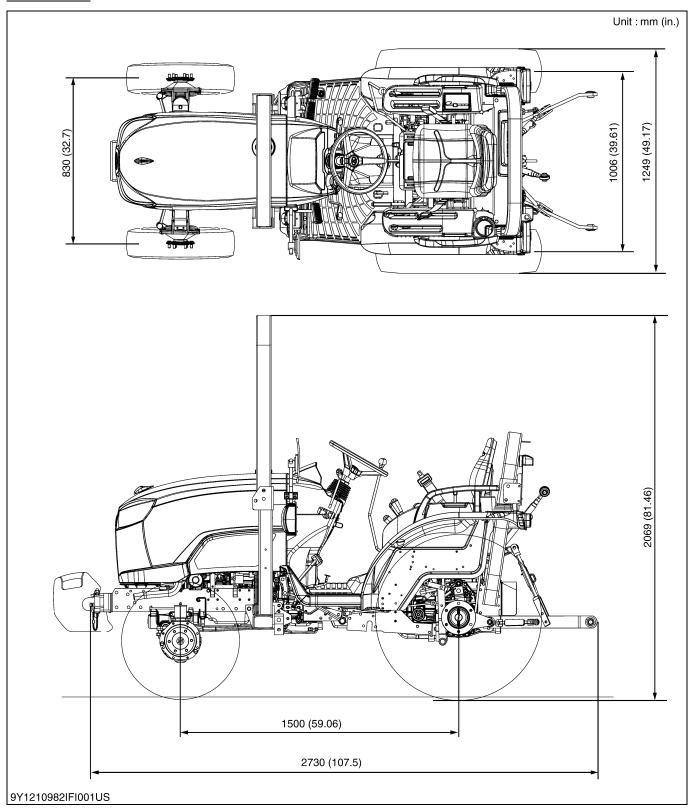
Model			B2050 / B2350 / B2650				
Tire size (Rear)			8-16 Farm	9.5-16 Farm	9.5-18 Farm	31 × 13.5-15 Turf	315/75D-15 Turf
		Range gear shift lever			km/h (mile/h)		
	1		1.03 (0.640)	1.10 (0.684)	1.17 (0.727)	1.02 (0.634)	1.12 (0.696)
	2	Low	1.71 (1.06)	1.83 (1.14)	1.95 (1.21)	1.69 (1.05)	1.85 (1.15)
	3		2.66 (1.65)	2.84 (1.76)	3.02 (1.88)	2.62 (1.63)	2.87 (1.78)
	4		1.92 (1.19)	2.05 (1.27)	2.18 (1.35)	1.89 (1.17)	2.07 (1.29)
	5	Middle	3.19 (1.98)	3.41 (2.12)	3.62 (2.25)	3.14 (1.95)	3.44 (2.14)
	6		4.94 (3.07)	5.29 (3.29)	5.61 (3.49)	4.87 (3.03)	5.34 (3.32)
Forward	7		6.89 (4.28)	7.37 (4.58)	7.83 (4.87)	6.79 (4.22)	7.44 (4.62)
	8	High	11.43 (7.102)	12.23 (7.599)	12.98 (8.065)	11.27 (7.003)	12.35 (7.674)
	9		17.74 (11.02)	18.97 (11.79)	20.14 (12.51)	17.49 (10.87)	19.16 (11.91)
		Max.Speed (at 2650 engine rpm)	18.80 (11.68)	20.11 (12.50)	21.35 (13.27)	18.53 (11.51)	20.31 (12.62)
	1		0.94 (0.58)	1.01 (0.628)	1.07 (0.665)	0.93 (0.58)	1.02 (0.634)
	2	Low	1.57 (0.976)	1.67 (1.04)	1.78 (1.11)	1.54 (0.957)	1.69 (1.05)
	3		2.43 (1.51)	2.60 (1.62)	2.76 (1.71)	2.40 (1.49)	2.62 (1.63)
	4		1.76 (1.09)	1.88 (1.17)	1.99 (1.24)	1.73 (1.07)	1.90 (1.18)
	5	Middle	2.91 (1.81)	3.12 (1.94)	3.31 (2.06)	2.87 (1.78)	3.15 (1.96)
	6		4.52 (2.81)	4.83 (3.00)	5.13 (3.19)	4.46 (2.77)	4.88 (3.03)
Reverse	7		6.30 (3.91)	6.74 (4.19)	7.15 (4.44)	6.21 (3.86)	6.80 (4.23)
	8	High	10.45 (6.493)	11.18 (6.947)	11.87 (7.376)	10.30 (6.400)	11.29 (7.015)
			16.22 (10.08)	17.35 (10.78)	18.41 (11.44)	15.99 (9.936)	17.51 (10.88)
	9	Max.Speed (at 2650 engine rpm)	17.19 (10.68)	18.39 (11.43)	19.52 (12.13)	16.95 (10.53)	18.57 (11.54)

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

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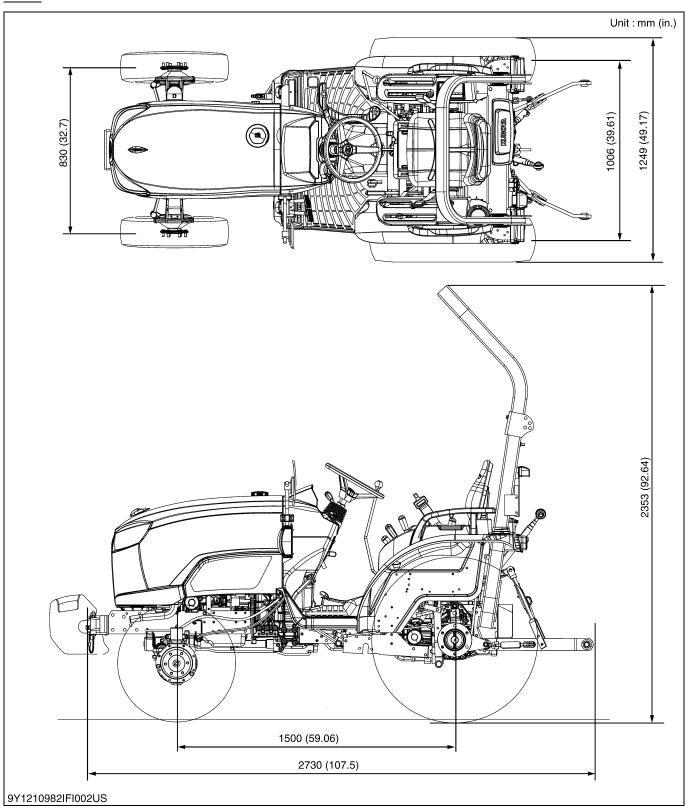
5. DIMENSIONS

Center ROPS



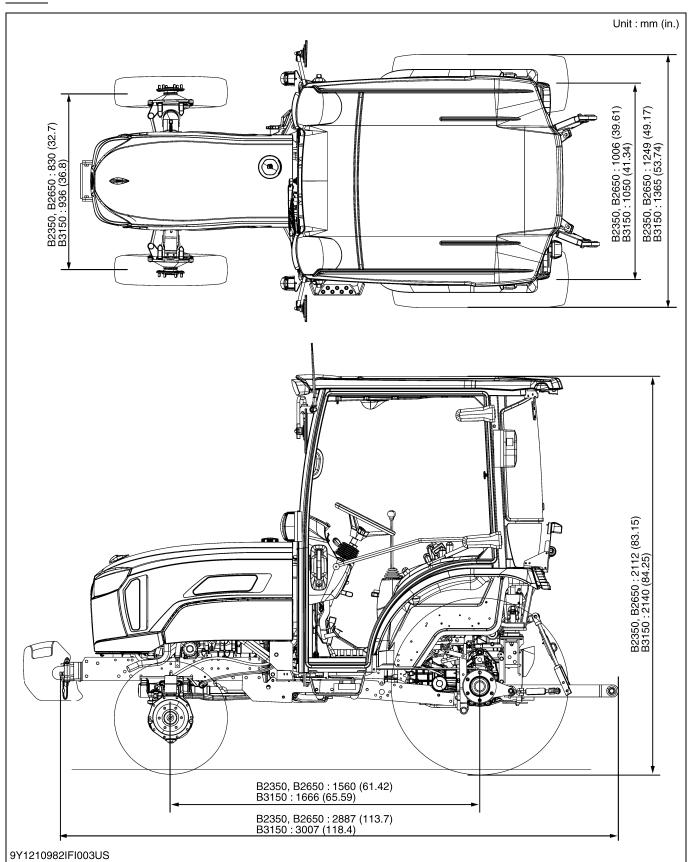
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ROPS



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CABIN



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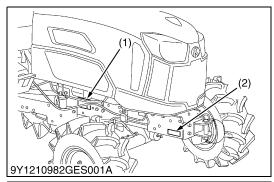
G GENERAL

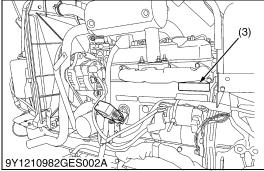
GENERAL

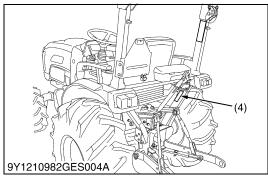
CONTENTS

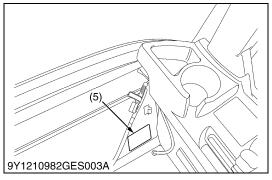
١.	TRACTOR IDENTIFICATION	G-1
	GENERAL PRECAUTIONS	
3.	HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING	G-3
	[1] WIRING	G-3
	[2] BATTERY	G-5
	[3] FUSE	G-5
	[4] CONNECTOR	G-5
	[5] HANDLING OF CIRCUIT TESTER	G-6
	[6] COLOR OF WIRING	G-7
4.	LUBRICANTS, FUEL AND COOLANT	G-8
5.	TIGHTENING TORQUES	G-10
	[1] GENERAL USE SCREWS, BOLTS AND NUTS	G-10
	[2] STUD BOLTS	G-10
	[3] METRIC SCREWS, BOLTS AND NUTS	G-11
	[4] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF	
	THREADS	G-11
	[5] PLUGS	G-11
6.	MAINTENANCE CHECK LIST	G-12
7.	CHECK AND MAINTENANCE	G-14
	[1] DAILY CHECK	G-14
	[2] CHECK POINTS OF EVERY 50 HOURS	G-18
	[3] CHECK POINTS OF EVERY 100 HOURS	G-22
	[4] CHECK POINTS OF EVERY 200 HOURS	
	[5] CHECK POINTS OF EVERY 400 HOURS	
	[6] CHECK POINT OF EVERY 800 HOURS	G-36
	[7] CHECK POINT OF EVERY 1500 HOURS	G-36
	[8] CHECK POINT OF EVERY 3000 HOURS	G-36
	[9] CHECK POINTS OF EVERY 1 YEAR	
	[10]CHECK POINTS OF EVERY 2 YEARS	G-37
	[11]OTHERS	G-39
8.	SPECIAL TOOLS	
	[1] SPECIAL TOOLS FOR ENGINE	G-43
	[2] SPECIAL TOOLS FOR TRACTOR	
	[3] SPECIAL TOOLS FOR CABIN	G-53
9.	TIRES	G-56
	[1] TIRE PRESSURE	G-56
	[2] WHEEL ADJUSTMENT	G-57
	(1) Front Wheels	G-57
	(2) Rear Wheels	G-58
	[3] BALLAST	G-59
10	IMPLEMENT LIMITATIONS	G-61

1. TRACTOR IDENTIFICATION









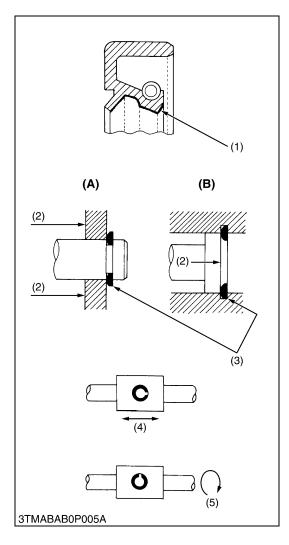
When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

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

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B2050, B2350, B2650, B3150, WSM GENERAL

2. GENERAL PRECAUTIONS



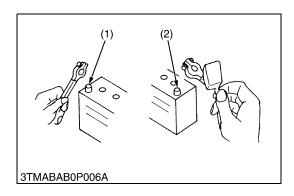
- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when you 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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3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING



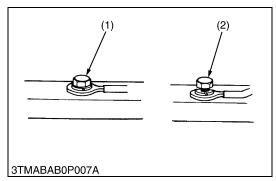
To ensure safety and prevent damage to the machine and surrounding equipment, obey the following precautions in handling electrical parts and wiring.

■ 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 try 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

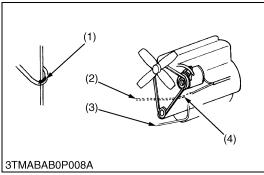
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[1] WIRING



- · Securely tighten wiring terminals.
- (1) Correct (Securely Tighten)
- (2) Incorrect (Loosening Leads to Faulty Contact)

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- Do not let wiring contact dangerous part.
- (1) Dangerous Part (Sharp Edge)
- (3) Wiring (Correct)
- (2) Wiring (Incorrect)
- (4) Dangerous Part

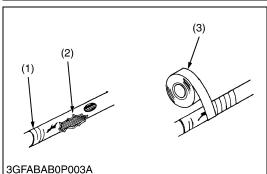
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- Repair or change torn or aged wiring immediately.
- (1) Aged

(3) Insulating Vinyl Tape

(2) Torn

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