

Product: Kubota BX1870 BX2370 BX2670 RCK48 RCK54 RCK60 LA203A LA243A Service Manual
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WSM

WORKSHOP MANUAL
**TRACTOR, MOWER,
FRONT LOADER**

**BX1870, BX2370, BX2670,
RCK48-18BX, RCK54-23BX,
RCK60B-23BX,
RCK48P-18BX, RCK54P-23BX,
RCK54D-26BX, RCK60D-26BX,
LA203A, LA243A**

Kubota

KiSC issued 02, 2017 A

Sample of manual. Download All 417 pages at:

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TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of KUBOTA Tractor BX1870D, BX2370D, BX2670D, KUBOTA Rotary Mower RCK48-18BX, RCK54-23BX, RCK60B-23BX, RCK48P-18BX, RCK54P-23BX, RCK60D-26BX, RCK54D-26BX and KUBOTA Front Loader LA203A, LA243A. 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.

December, 2012

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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.	Issue month	Main Revised Point and Corrective Measures {Search word}	Reference Page
1	2013.08	Change to the Quick Hitch type at "[2] FRONT LOADER (1) Bucket, Boom and Hydraulic Cylinders". {Bucket (Quick Hitch)}	8-S6
2	2015.05	Added RCK54D-26BX and RCK60D-26BX Drive Over Mower Decks.	
3	2016.03	Revise Maintenance Intervals	G-17
4	2017.02	Changed Checking Hydraulic Pump Oil Flow	5-S6

I INFORMATION

INFORMATION

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1. SAFETY FIRST

SAFETY FIRST

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

DANGER

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

WARNING

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

CAUTION

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

■ IMPORTANT

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

■ NOTE

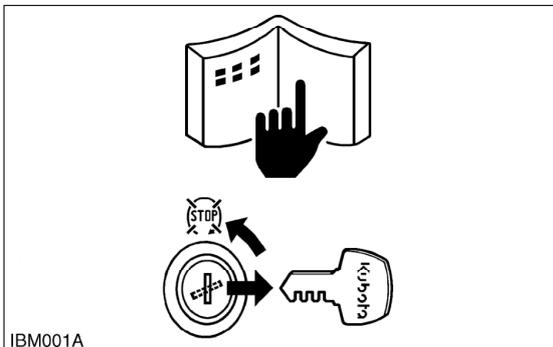
- Gives helpful information.

WSM000001INI0001US1

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.

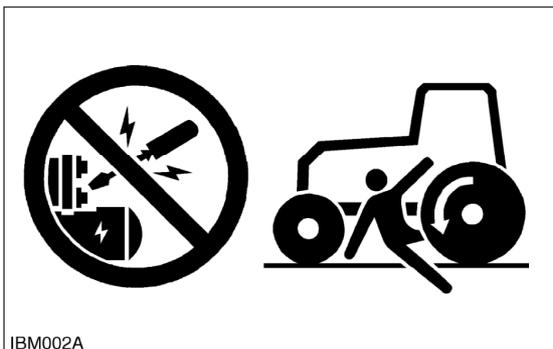
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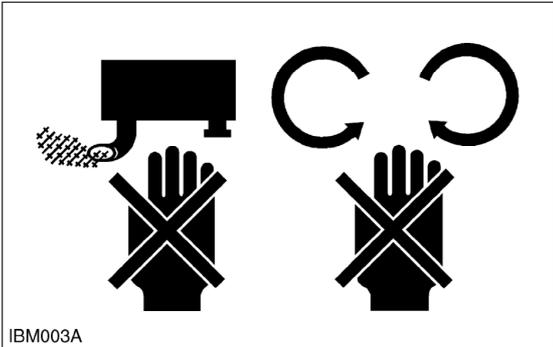


START SAFELY

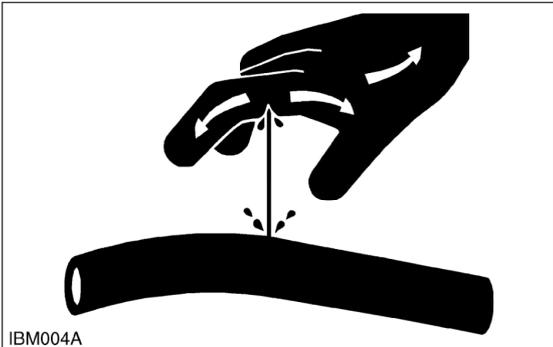
- Do not do the procedures below when you start the engine.
 - short across starter terminals
 - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.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

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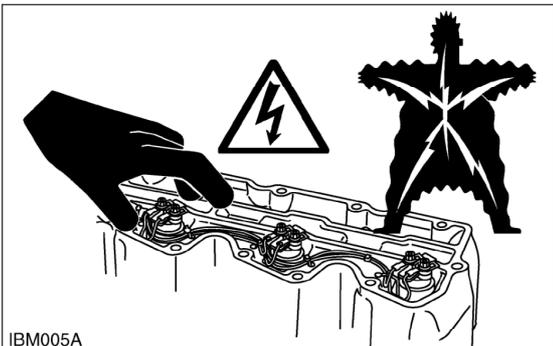




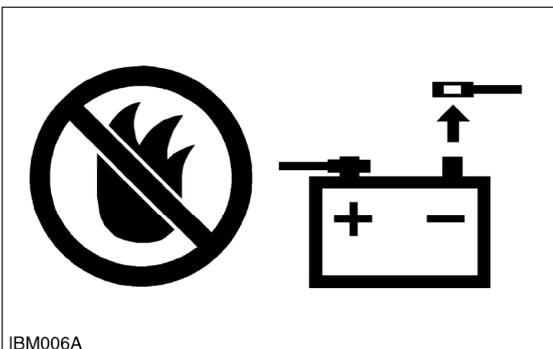
IBM003A



IBM004A



IBM005A



IBM006A

OPERATE SAFELY

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

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PREVENT A FIRE

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

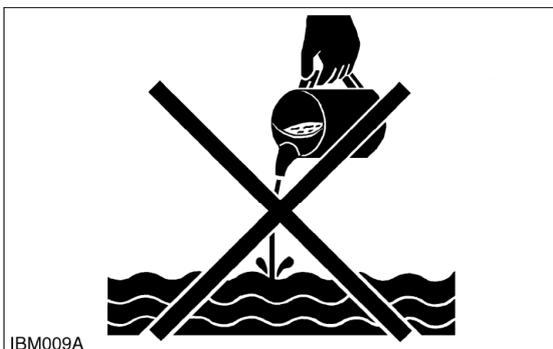
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KEEP A GOOD AIRFLOW IN THE WORK AREA

- 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.

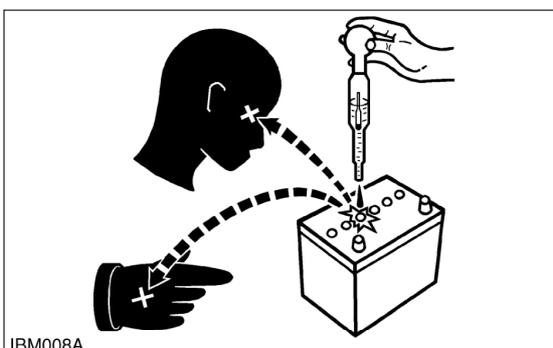
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DISCARD FLUIDS CORRECTLY

- 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.

WSM000001INI0009US0

2. SAFETY DECALS

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

WSM000001INI0013US0

[1] BX TRACTOR

(1) Part No. K2651-6557-2

 <p>WARNING TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:</p>	<p>1. Kubota recommends the use of a Roll-Over Protective Structures (ROPS) and seat belt in almost all applications.</p>	<p>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.</p>	<p>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>
	<p>2. Remove the ROPS only when it substantially interferes</p>		

1AGAJAXAP041E

(2) Part No. K2561-6548-2

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. Slow down for turns, or rough roads.
8. On public roads use SWV emblem and hazard lights, if required by local traffic and safety regulations.
9. Pull only from the hitch.
10. Before dismounting lower the implement to the ground, set the parking brake, stop the engine and remove the key.
11. Securely support tractor and implements before working underneath.

1AGAJAXAP042E

(3) Part No. K2561-6552-2

Do not put hands under the rear fender.

WARNING



TO AVOID PERSONAL INJURY: KEEP HANDS AWAY FROM PINCH POINTS OF LIFT ARMS.

1AGAJAXAP047E

(4) Part No. K1272-6585-2

Diesel fuel only No fire




ULTRA LOW SULFUR DIESEL FUEL ONLY

1BDAHAOP002A

(5) Part No. K2591-6557-2

WARNING



TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:

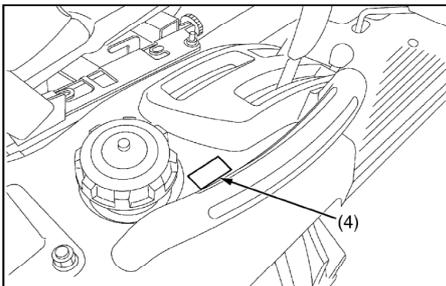
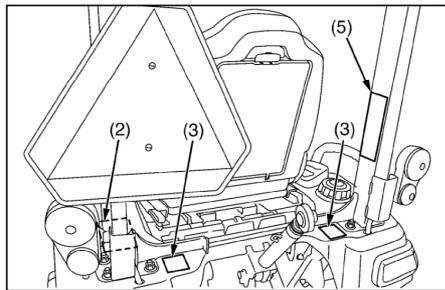
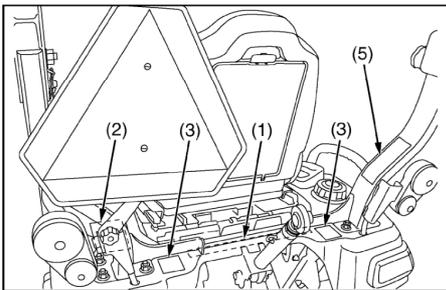
1. Keep Roll-Over Protective Structures (ROPS) in the upright and locked position.
2. Fasten SEAT BELT before operating.



THERE IS NO OPERATOR PROTECTION WHEN THE ROPS IS IN THE FOLDED POSITION.

1. Check the operating area and fold the ROPS only when absolutely necessary.
2. Do not wear SEAT BELT if ROPS is folded.
3. Raise and lock ROPS as soon as vertical clearance allows.
4. Read ROPS related instructions and warnings.

1HNAAACAP014E



9Y1210855ICI011US

9Y1210855INI0001US0

(1) Part No. K2581-6554-1

	⚠ WARNING
	<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 hitch at towing position. (see operator's manual)

1AGAJAXAP044E

(2) Part No. K2581-6555-1

⚠ CAUTION	
TO AVOID PERSONAL INJURY FROM SEPARATION:	
	
← GROOVE	GROOVE →
DO NOT EXTEND LIFT ROD BEYOND THE GROOVE ON THE THREADED ROD.	

1AGAJAXAP043E

(3) Part No. K2581-6556-1

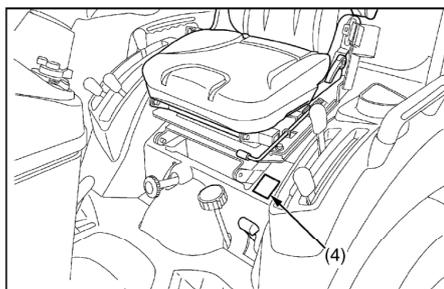
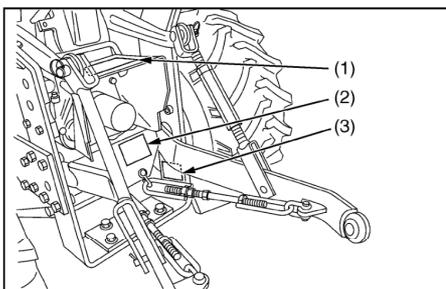
⚠ WARNING
<p>TO AVOID PERSONAL INJURY:</p> <ol style="list-style-type: none"> 1. Attach pulled or towed loads to the hitch only. 2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.

1AGAJAXAP046E

(4) Part No. K2651-6568-1

⚠ WARNING
<p>Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.</p>

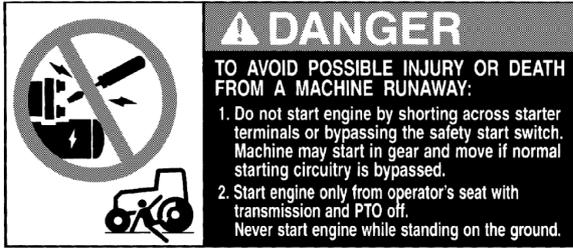
1AYAACAP1000



9Y1210855ICI012US

9Y1210855INI0002US0

(1) Part No. K2581-6541-1



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.

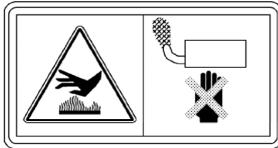
1AGA JAXAP048E

(2) [BX1870D, BX2370D]
Part No. K2581-6547-1
Stay clear of engine fan and fan belt.



1AGA JAXAP049E

(3) Part No. K2581-6542-1
Do not touch hot surface like muffler, etc..

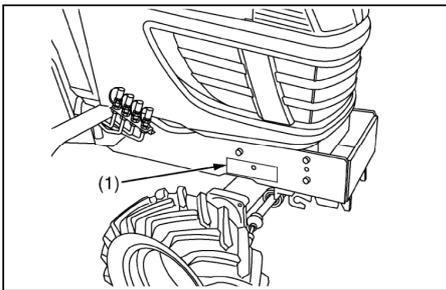


1AGA JAXAP050E

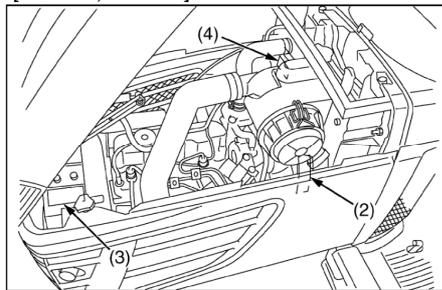
(4) Part No. K2581-6543-1
Stay clear of engine fan and fan belt.



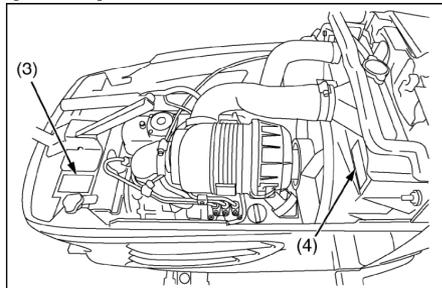
1AGA JAXAP052E



[BX1870D, BX2370D]



[BX2670D]



(1) Part No. K1221-6118-1

<p>MAINTENANCE FREE • SANS ENTRETIEN • LIBRE DE MANTENIMIENTO</p> <p>⚠ DANGER/POISON ¡PELIGRO/VENENO!</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. SET MEDICAL HELP FAST.</p>
<p>PROTÉGEZ LES YEUX. LES GAZ EXPLOSIFS PEUVENT BLESER OU RENDRE AVEUGLE.</p>	<p>ÉVITER LES ÉTINCELLES • LES FLAMMES • DE FUMER</p>	<p>L'ACIDE SULFURIQUE PEUT CAUSER LA CECITE OU DES BRULURES GRAVES.</p>	<p>RINCÉZ LES YEUX À L'EAU IMMÉDIATEMENT. CONSULTEZ UN MÉDECIN RAPIDEMENT.</p>
<p>PROTEJA LOS OJOS. LOS GASES EXPLOSIVOS PUEDEN CAUSAR DAÑOS O CEGUERA.</p>	<p>NO CHISPAS • FLAMAS • CIGARROS</p>	<p>ACIDO SULFURICO PUEDE CAUSAR CEGUERA O QUEMADURAS FUERTES.</p>	<p>ENJUAGUE LOS OJOS INMEDIATAMENTE CON AGUA. ACUDA RAPIDO CON EL MEDICO.</p>
<p>KEEP OUT OF THE REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY! TENIR HORS DE LA PORTÉE DES ENFANTS. NE PAS RENVERSER. NE PAS OUVRIR LA BATTERIE! ALEJARSE DEL ALCANCE DE LOS NIÑOS. NO VOLTEAR. ¡NO ABRIR LA BATERIA!</p>			
<p>CALIFORNIA PROPOSITION 65 WARNING: Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.</p>			
<p>Si la batería no está en servicio de este fabricante o de un fabricante autorizado, no la abra ni la recargue. Consulte a un técnico autorizado para el mantenimiento de la batería.</p>		<p>Si la batería no está en servicio de este fabricante o de un fabricante autorizado, no la abra ni la recargue. Consulte a un técnico autorizado para el mantenimiento de la batería.</p>	
<p>RECYCLE ♻️</p>		<p>RECYCLE ♻️</p>	
<p>1BDABDMP013A</p>		<p>PART NO. CCA CA Pb</p>	

(2) Part No. K2591-6564-2

⚠ WARNING

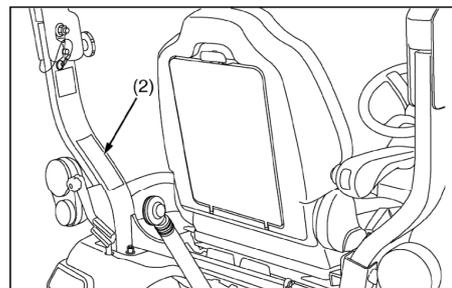
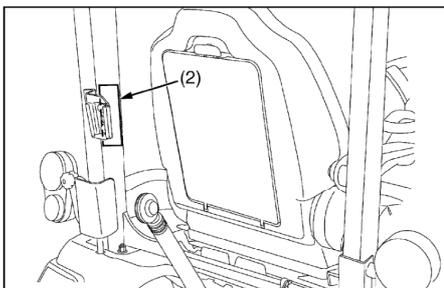
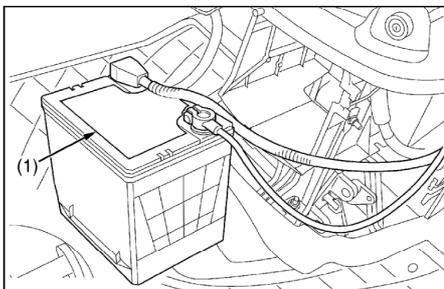
Never modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.

⚠ CAUTION

TO AVOID PERSONAL INJURY WHEN RAISING OR FOLDING ROPS:

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

1HNAAACAP013E



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9Y1210855INI0004US0

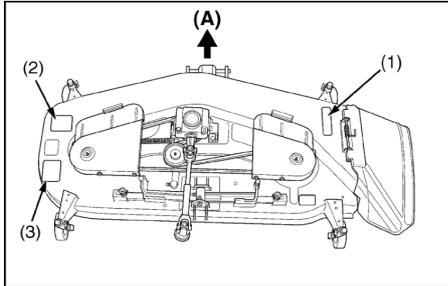
CARE OF DANGER, WARNING AND CAUTION LABELS

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

9Y1210855INI0005US0

[2] MOWER

[RCK60B-23BX, RCK54-23BX, RCK48-18BX]



(A) Forward

(1) Part No. K5112-7311-1

(3) Part No. K5763-4715-1



1BDACADAP003E

(2) Part No. K5112-7312-1



1BDACADAP004E

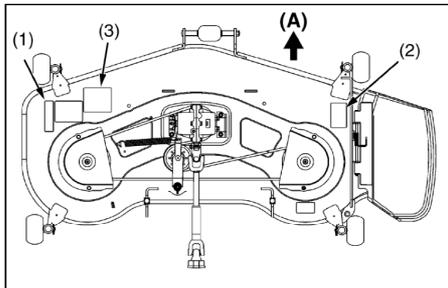


1BDACADAP002E

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9Y1210855INI0006US0

[RCK54P-23BX]



(A) Forward

(1) Part No. K5617-7311-1



1BDABBSAP0030

(3) Part No. K5763-4715-1



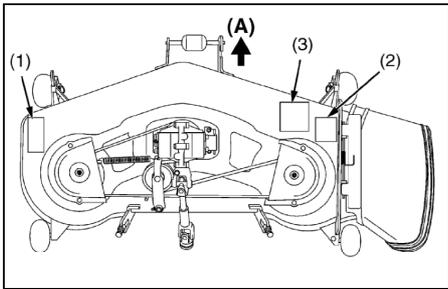
1BDACADAP002E

(2) Part No. K5617-7312-1



1BDABBSAP0020

[RCK48P-18BX]



(A) Forward

(1) Part No. K5617-7311-1



1BDABBSAP0030

(3) Part No. K5763-4715-1



1BDACADAP002E

(2) Part No. K5617-7312-1

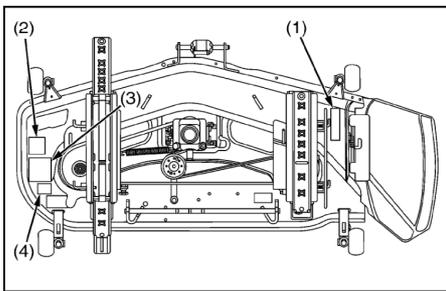


1BDABBSAP0020

9Y1210855ICI007US

9Y1210855INI0008US0

[RCK60D-26BX]



(1) Part No. K5112-7315-2



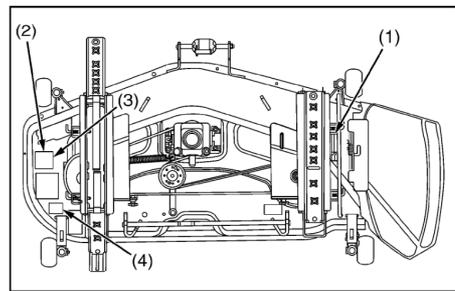
1BDACADAP003E

(2) Part No. K5112-7312-2



1BDACADAP004E

[RCK54D-26BX]



(3) Part No. K5384-4715-1



1BDACBLAP051A

(4) Part No. K5384-4171-1



1BDACAMAP095A

9Y1210855ICI010US

9Y1210855INI0018US0

CARE OF DANGER, WARNING AND CAUTION LABELS

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

9Y1210855INI0005US0

[3] FRONT LOADER

(1) Part No. 7J246-5645-1

CAUTION

TO AVOID PERSONAL INJURY :

1. Observe safety precautions in loader and tractor Operator's Manual.
2. Operate the loader from tractor seat only.
3. Keep children, others and livestock away when operating loader and tractor.
4. Avoid holes, loose ground, and rocks which may cause tractor / loader to tip.
5. Make sure approved bucket is attached before removing loader from tractor.
6. When parking or storing, choose flat and hard ground. Lower the bucket to the ground, set brakes and remove key before leaving tractor.
7. Before disconnecting hydraulic lines, relieve all hydraulic pressure.

1AIABAHAP019A

(2) Part No. 7J246-5641-1

DANGER



TO AVOID SERIOUS INJURY OR DEATH CAUSED BY ROLLOVERS :

1. ROPS and a fastened seat belt are strongly recommended in almost all applications. Foldable ROPS should be in upright and locked position if equipped.
2. Adjust rear wheels to the widest setting that is suitable for the work.
3. Add recommended wheel ballast and rear weight for stability.
4. DO NOT drive on steep slopes or unstable surfaces.
5. Carry loader arms at low position during transport. Move and turn tractor at slow speeds.

1AIABAHAP017A

(3) Part No. 7J246-5643-1

DANGER



TO AVOID SERIOUS INJURY OR DEATH CAUSED BY FALLING LOADS :

1. Load on raised bucket or fork can fall or roll back onto operator causing serious injury or death.
2. Use approved clamping and / or guard attachments for handling large, loose or shiftable loads such as bales, posts, sheets of plywood etc.
3. Carry loads as low as possible.

1AIABAHAP016A

(4) Part No. 7J246-5642-1

DANGER



TO AVOID SERIOUS INJURY OR DEATH CAUSED BY CONTACT WITH ELECTRIC LINES:

- Check overhead clearance.

1AIABAHAP018A

(5) Part No. 7J246-5644-2

WARNING



TO AVOID INJURY FROM FALLS OR BEING CRUSHED :

1. DO NOT stand or work under raised loader or bucket.
2. DO NOT use loader as jack for servicing.
3. DO NOT use loader as a work platform.
4. NEVER connect chain, cable or rope to loader bucket while operating loader.

1AIABAHAP020A

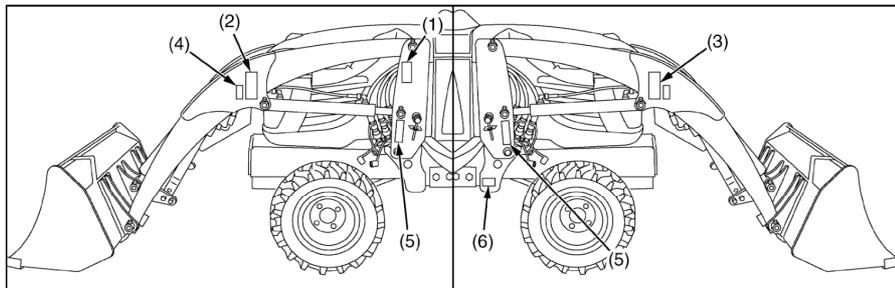
(6) Part No. 7J266-5649-2

CAUTION

TO AVOID INJURY FROM CRUSHING :

1. Do not utilize the valve lock for machine maintenance or repair.
2. The valve lock is to prevent accidental actuation when implement is not in use or during transport.

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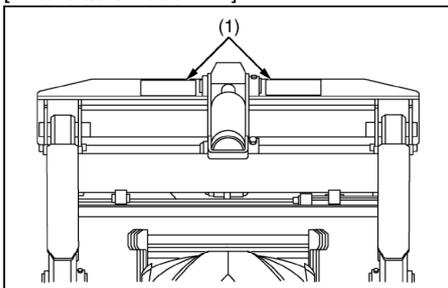


*The labels (2), (3), (4) are attached to inside of the boom.

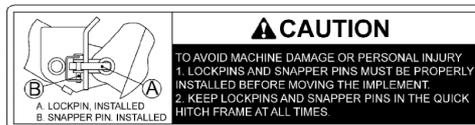
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[BX6315 QUICK COUPLER]

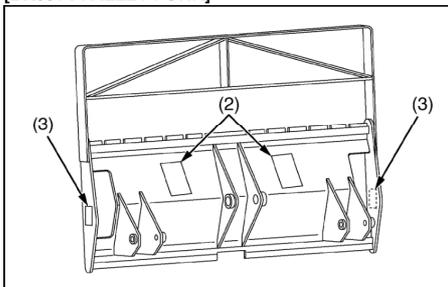


(1) Part No. 7J619-3616-1

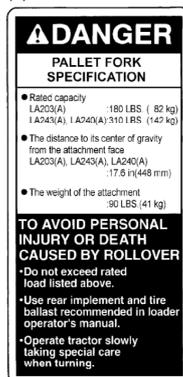


1AGAJB, JAP044E

[BX6314 PALLET FORK]



(2) Part No. 7J612-3923-1

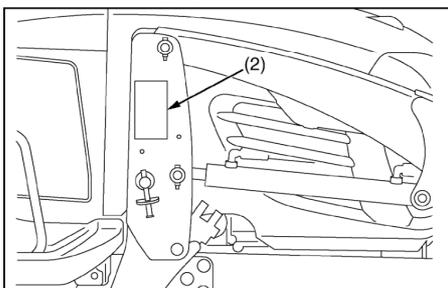


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(3) Part No. 7J246-5643-1



1A1ABAHAP016A



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CARE OF DANGER, WARNING AND CAUTION LABELS

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

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3. SPECIFICATIONS

[1] BX TRACTOR

Model		BX1870D	BX2370D	BX2670D	
PTO power		10.2 kW (13.7 HP)*	13.2 kW (17.7 HP)*	14.5 kW (19.5 HP)*	
Engine	Maker	KUBOTA			
	Model	D722-E4-BX-1	D902-E4-BX-1	D1005-E4-BX-1	
	Type	Indirect Injection, vertical, water-cooled, 4-cycle diesel			
	Number of cylinders	3			
	Bore and stroke	67 × 68 mm (2.64 × 2.68 in.)	72 × 73.6 mm (2.83 × 2.90 in.)	76 × 73.6 mm (2.99 × 2.90 in.)	
	Total displacement	719 cm ³ (43.9 cu.in.)	898 cm ³ (54.8 cu.in.)	1001 cm ³ (61.1 cu.in.)	
	Engine gross power	13.4 kW (18.0 HP)**	17.1 kW (23.0 HP)**	19.0 kW (25.5 HP)**	
	Rated revolution	3200 min ⁻¹ (rpm)			
	Maximum torque	44.9 N·m (4.6 kgf·m, 33.1 lbf·ft)	56.1 N·m (5.7 kgf·m, 41.4 lbf·ft)	60.2 N·m (6.1 kgf·m, 44.4 lbf·ft)	
	Battery	12 V, RC: 55 min., CCA: 450 A	12 V, RC: 80 min., CCA: 540 A		
	Fuel	Diesel fuel No. 1 [below -10 °C (14 °F)], Diesel fuel No. 2 [above -10 °C (14 °F)]			
Capacities	Fuel tank	25 L (6.6 U.S.gals, 5.5 Imp.gals)			
	Engine crankcase (with filter)	2.9 L (3.1 U.S.qts, 2.6 Imp.qts)	3.1 L (3.3 U.S.qts, 2.7 Imp.qts)	3.5 L (3.7 U.S.qts, 3.1 Imp.qts)	
	Engine coolant	2.5 L (2.6 U.S.qts, 2.2 Imp.qts)	2.7 L (2.8 U.S.qts, 2.4 Imp.qts)	2.9 L (3.1 U.S.qts, 2.6 Imp.qts)	
	Recovery tank	0.4 L (0.4 U.S.qts, 0.4 Imp.qts)			
	Transmission case	11.6 L (3.06 U.S.gals, 2.55 Imp.gals)			
Dimensions	Overall length (without 3P)		2035 mm (80.1 in.)	2120 mm (83.5 in.)	
	Overall length (with 3P)		2340 mm (92.1 in.)	2425 mm (95.5 in.)	
	Overall width (min. tread)		1145 mm (45.1 in.)		
	Overall height (with ROPS)		2190 mm (86.2 in.)	2215 mm (87.2 in.)	
	Overall height (Top of seat)		1230 mm (48.4 in.)	1255 mm (49.4 in.)	1330 mm (52.4 in.)
	Wheel base		1340 mm (52.8 in.)	1400 mm (55.1 in.)	
	Minimum ground clearance		150 mm (5.9 in.)	175 mm (6.9 in.)	
	Tread	Front	880 mm (34.6 in.)	930 mm (36.3 in.)	
Rear		820 mm (32.2 in.)			
Weight (with ROPS)		610 kg (1345 lbs)	640 kg (1410 lbs)	665 kg (1466 lbs)	
Clutch		N / A			
Travelling system	Tires	Front	16 × 7.50 – 8	18 × 8.50 – 10	
		Rear	24 × 12.00 – 12	26 × 12.00 – 12	
	Steering	Hydrostatic type power steering			
	Transmission	Main: hydrostatic transmission, High-Low gear shift (2 forward and 2 reverse)			
	Brake	Wet disk type			
Min. turning radius (without brake)		2.18 m (7.15 feet)	2.3 m (7.5 feet)		

Model		BX1870D	BX2370D	BX2670D	
Hydraulic unit	Hydraulic control system	Directional control, auto-return lever system			
	Pump capacity	23.5 L/min. (6.2 U.S.gals/min., 5.2 Imp.gals/min.)			
	System pressure	12.3 to 12.8 MPa (126 to 130 kgf/cm ² , 1790 to 1850 psi)			
	Three point hitch	SAE Category I			
	Three point hitch. Max.lift force	At lift points	5390 N (1210 lbs)***		
		24 in. behind lift points	3040 N (680 lbs)***		
	Remote control valve coupler (Rear: Option)	System	2 valves		
		Coupler	ISO 7341 series A		
Remote control valve coupler (Front: Option)	System	2 valves			
	Coupler	ISO 7341-1 series B			
PTO	Rear	PTO shaft	SAE 1-3/8, 6 splines		
		Revolution	1 speed (540 min ⁻¹ (rpm) at engine 3142 min ⁻¹ (rpm))		
	Mid	PTO shaft	USA No. 5 (KUBOTA 10-tooth) involute spline		
		Revolution	1 speed (2500 min ⁻¹ (rpm) at engine 3043 min ⁻¹ (rpm))		

■ NOTE

- The company reserves the right to change the specifications without notice.
- * Manufacturer's estimate:
- ** SAE J 1995
- *** See and check "IMPLEMENT LIMITATIONS".

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[2] MOWER

(1) RCK48-18BX, RCK54-23BX, RCK60B-23BX, RCK48P-18BX and RCK54P-23BX

Model		RCK48-18BX	RCK54-23BX	RCK60B-23BX	RCK48P-18BX	RCK54P-23BX
Suitable tractor		BX1870D	BX1870D BX2370D	BX2370D BX2670D	BX1870D	BX2370D
Mounting method		Quick-Joint, Parallel linkage				
		Suspended linkage		Self-balance suspended linkage	Suspended linkage	
Adjustment of cutting height		Dial gauge				
Cutting width		1219 mm (48 in.)	1372 mm (54 in.)	1524 mm (60 in.)	1225 mm (48 in.)	1375 mm (54 in.)
Cutting height		25 to 102 mm (1.0 to 4.0 in.)				
Weight (Approx.)		75 kg (165 lbs)	95 kg (210 lbs)	115 kg (250 lbs)	82 kg (181 lbs)	86 kg (190 lbs)
Blade spindle speed		54.7 r/s (3281 rpm)	49.5 r/s (2969 rpm)	44.1 r/s (2647 rpm)	54.7 r/s (3281 rpm)	49.5 r/s (2969 rpm)
Blade tip velocity		72.8 m/s (14331 fpm)	73.8 m/s (14527 fpm)	72.5 m/s (14271 fpm)	72.8 m/s (14331 fpm)	73.8 m/s (14527 fpm)
Blade length		424 mm (16.7 in.)	475 mm (18.7 in.)	523 mm (20.6 in.)	424 mm (16.7 in.)	475 mm (18.7 in.)
Number of blades		3				
Dimensions	Overall length	895 mm (35.2 in.)	928 mm (36.5 in.)	1000 mm (39.4 in.)	881 mm (34.7 in.)	908 mm (35.7 in.)
	Overall width	1544 mm (60.8 in.)	1780 mm (66.5 in.)	1930 mm (76.0 in.)	1550 mm (61.0 in.)	1700 mm (67.0 in.)
	Overall height (Min.)	268 mm (10.5 in.)	281 mm (11.0 in.)	281 mm (11.0 in.)	291 mm (11.5 in.)	291 mm (11.5 in.)

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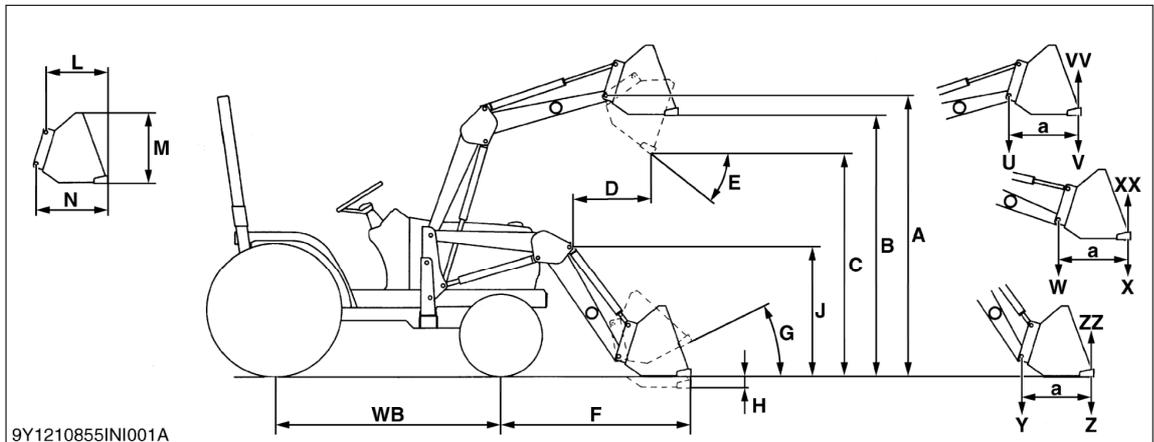
(2) RCK54D-26BX and RCK60D-26BX

Model		RCK60D-26BX	RCK54D-26BX
Suitable tractor		BX2370, BX2670	
Mounting method		Drive Over Quick-Joint, Parallel linkage	
		Drive over suspended linkage	
Adjustment of cutting height		Dial gauge	
Cutting width		1524 mm (60 in.)	1372 mm (54 in.)
Cutting height		25 to 102 mm (1.0 to 4.0 in.)	
Weight	Mower	115 kg (250 lbs)	103 kg (227 lbs)
	Mower with frame link	134 kg (295 lbs)	122 kg (269 lbs)
Blade spindle speed		44.1 r/s (2647 rpm)	49.5 r/s (2969 rpm)
Blade tip velocity		72.5 m/s (14271 fpm)	73.8 m/s (14527 fpm)
Blade length		523 mm (20.6 in.)	475 mm (18.7 in.)
Number of blades		3	
Dimensions	Overall length	1000 mm (39.4 in.)	928 mm (36.5 in.)
	Overall width	1930 mm (76.0 in.)	1780 mm (66.5 in.)
	Overall height (Min.)	281 mm (11.0 in.)	
Tire		Industrial, Turf*	

- **NOTE**
- *Bar tires are prohibited from driving over mower deck.
 - **Remove the frame link when rear attachment is on.
 - ***Remove the frame link when snow chain is on.

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[3] FRONT LOADER



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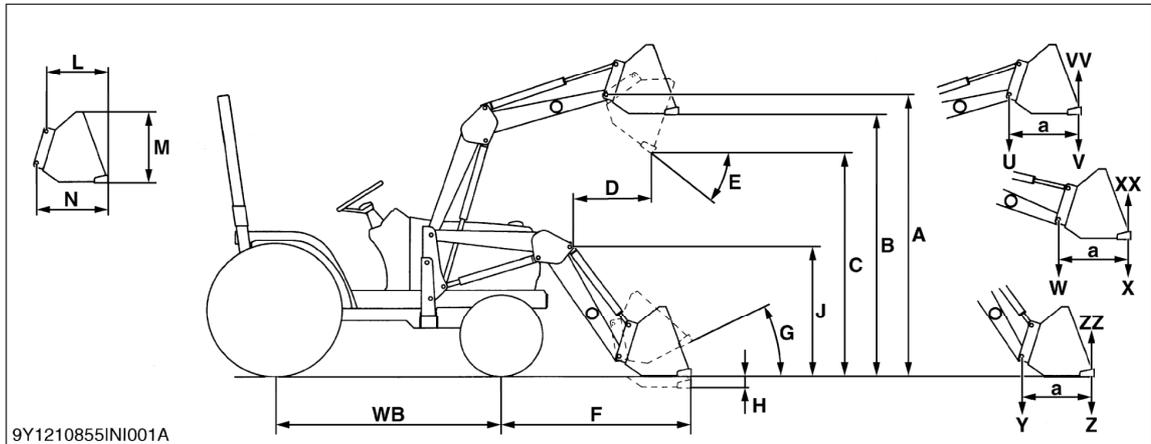
Loader Specifications

Loader Model		LA203A	LA243A
Tractor Model		BX1870D (BX1860)	BX2370D and BX2670D (BX2360 and BX2660)
Wheel Base (WB)		1340 mm (52.8 in.)	1400 mm (55.1 in.)
Front Tires		16 × 7.5-8	18 × 8.5-10
Rear Tires		24 × 12-12	26 × 12-12
Boom Cylinder	Bore	40 mm (1.57 in.)	
	Stroke	281 mm (11.1 in.)	326 mm (12.8 in.)
Bucket Cylinder	Bore	65 mm (2.56 in.)	
	Stroke	204 mm (8.03 in.)	
Control Valve		One detente float position, two stage bucket dump, power beyond circuit	
Rated Flow		14 L/min. (3.7 U.S.gals/min., 3.1 Imp.gals/min.)	
Maximum Pressure		12.3 MPa (125 kgf/cm ² , 1778 psi)	
Net Weight (Approximate)		157 kg (346 lbs)	170 kg (375 lbs)

Bucket Specifications

Loader Model		LA203A	LA243A
Model		SQUARE 48"	
Type		Rigid	
Width		1219 mm (48.0 in.)	
Depth L		455 mm (17.9 in.)	495 mm (19.5 in.)
Height M		445 mm (17.5 in.)	465 mm (18.3 in.)
Length N		498 mm (19.6 in.)	538 mm (21.2 in.)
Capacity	Struck	0.12 m ³ (4.2 cu.ft.)	0.14 m ³ (4.9 cu.ft.)
	Heaped	0.14 m ³ (4.9 cu.ft.)	0.17 m ³ (6.1 cu.ft.)
Weight		56 kg (123 lbs)	60 kg (132 lbs)

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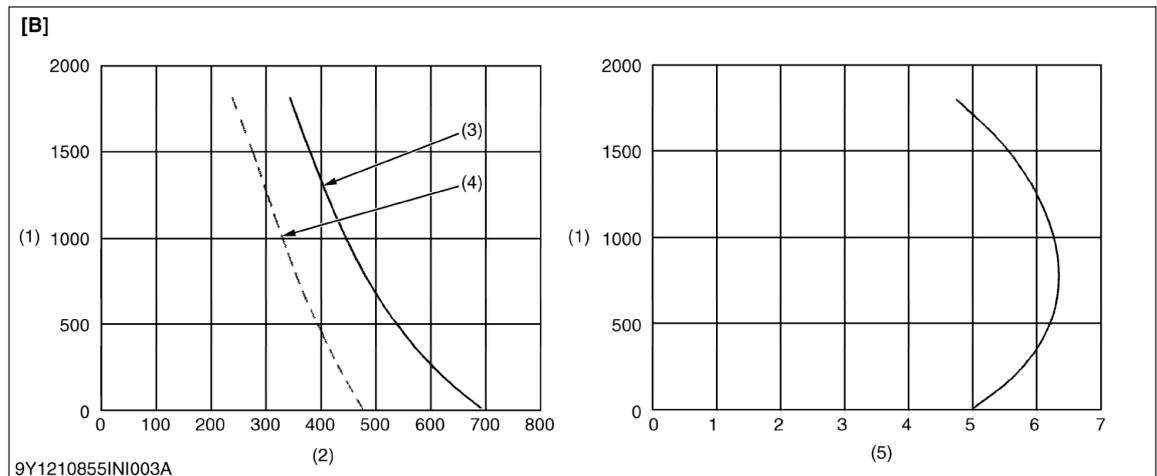
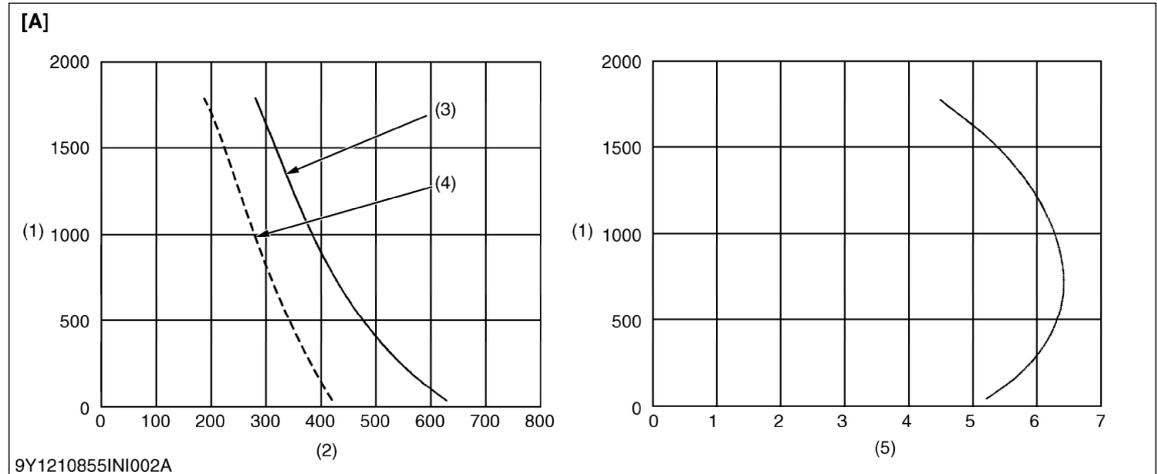
Dimensional Specifications

Loader Model		LA203A	LA243A
Tractor Model		BX1870D (BX1860)	BX2370D and BX2670D (BX2360 and BX2660)
A	Maximum lift height (To bucket pivot pin)	1810 mm (71.3 in.)	
B	Maximum lift height under level bucket	1680 mm (66.1 in.)	
C	Clearance with bucket dumped	1350 mm (53.1 in.)	1330 mm (52.4 in.)
D	Reach at maximum lift height (Dumping Reach)	720 mm (28.3 in.)	735 mm (28.9 in.)
E	Maximum dump angle	0.784 rad (40 °)	0.785 rad (45 °)
F	Reach with bucket on ground	1330 mm (52.4 in.)	1390 mm (54.7 in.)
G	Bucket roll-back angle	0.59 rad (30 °)	0.51 rad (29 °)
H	Digging depth	100 mm (3.9 in.)	120 mm (4.7 in.)
J	Overall height in carry position	970 mm (38.2 in.)	990 mm (39.0 in.)

Operational Specifications

Loader Model		LA203A	LA243A
Tractor Model		BX1870D (BX1860)	BX2370D and BX2670D (BX2360 and BX2660)
U	Lift capacity (Bucket pivot pin, maximum height)	280 kg (617 lbs)	340 kg (750 lbs)
V	Lift capacity (500 mm forward, maximum height)	185 kg (408 lbs)	235 kg (518 lbs)
W	Lift capacity (Bucket pivot pin, 1500 mm (59 in.) height)	315 kg (694 lbs)	375 kg (827 lbs)
X	Lift capacity (1500 mm height)	220 kg (485 lbs)	270 kg (595 lbs)
Y	Breakout force (Bucket pivot pin)	5720 N (1287 lbs)	6290 N (1415 lbs)
Z	Breakout force (500 mm forward)	3920 N (882 lbs)	4410 N (992 lbs)
VV	Bucket roll-back force at maximum height	4460 N (1003 lbs)	4750 N (1069 lbs)
XX	Bucket roll-back force at 1500 mm	5380 N (1210 lbs)	5600 N (1260 lbs)
ZZ	Bucket roll-back force at ground level	5580 N (1255 lbs)	5490 N (1235 lbs)
a	Length	500 mm (19.7 in.)	500 mm (19.7 in.)
Raising time (Rated flow)		2.8 seconds	3.5 seconds
Lowering time (Rated flow)		2.0 seconds	2.7 seconds
Bucket dumping time (Rated flow)		1.8 seconds	1.7 seconds
Bucket roll-back time (Rated flow)		2.1 seconds	2.4 seconds

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(1) Height (mm)
 (2) Lift Capacity (kg)

(3) At Pivot Pin
 (4) 500 mm Forward of Pivot Pin

(5) Rollback Force (kN)

[A] LA203A
[B] LA243A

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4. TRAVELING SPEEDS

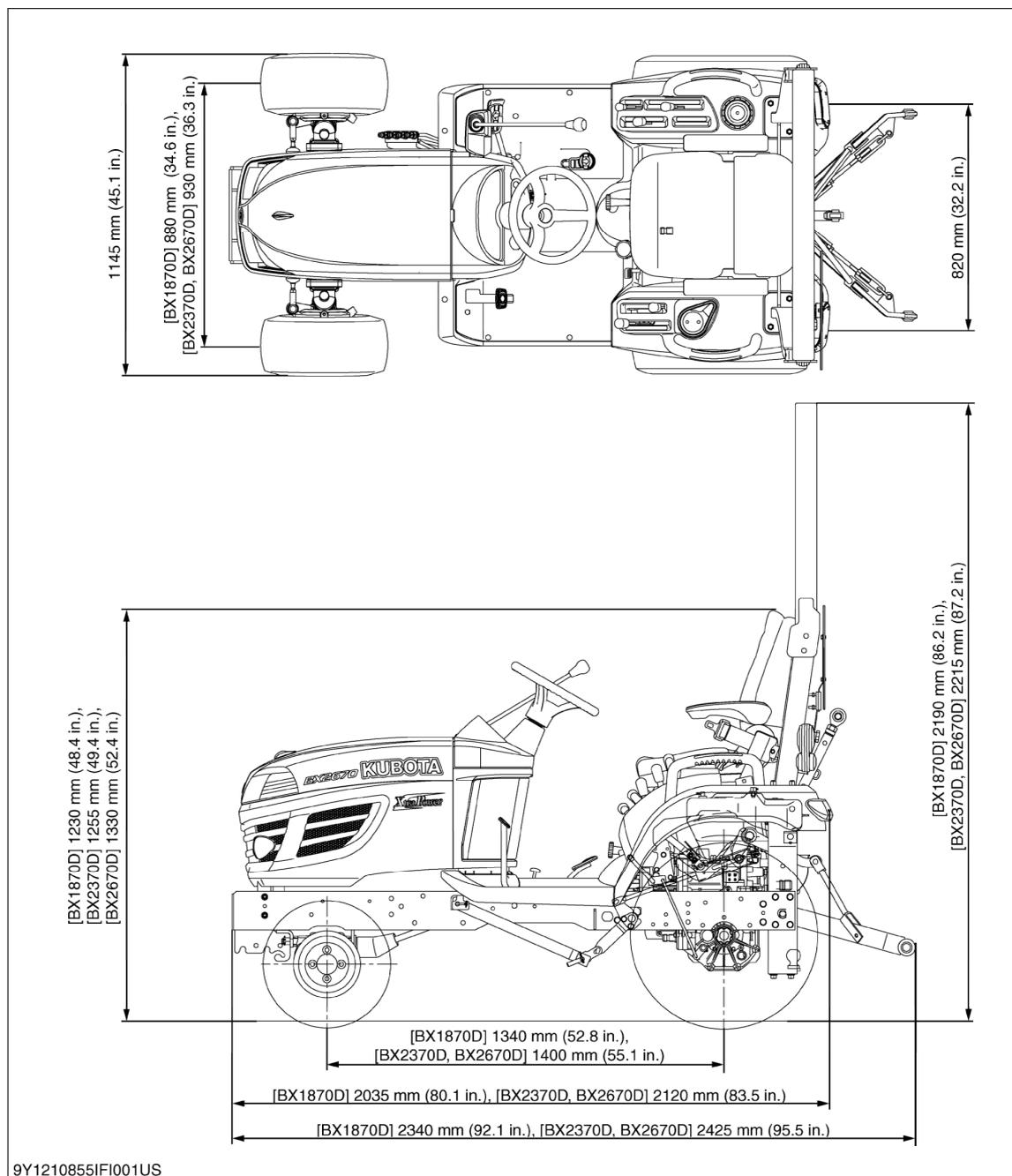
(At rated engine rpm)

Model		BX1870D		BX2370D and BX2670D	
Tire size (Rear)		24 × 12.00 – 12		26 × 12.00 – 12	
	Range gear shift lever	km/h	mph	km/h	mph
Forward	Low	0 to 6.0	0 to 3.7	0 to 6.5	0 to 4.0
	High	0 to 12.5	0 to 7.8	0 to 13.5	0 to 8.4
Reverse	Low	0 to 4.5	0 to 2.8	0 to 5.0	0 to 3.1
	High	0 to 9.5	0 to 5.9	0 to 10.5	0 to 6.5

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

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5. DIMENSIONS



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G GENERAL

GENERAL

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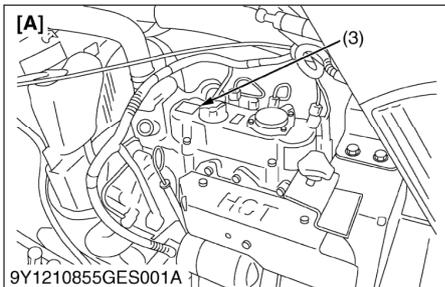
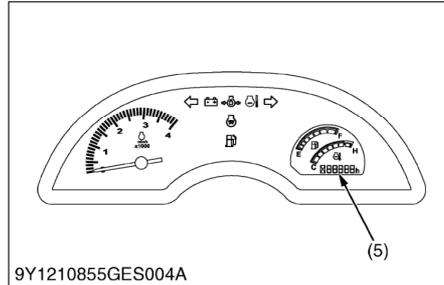
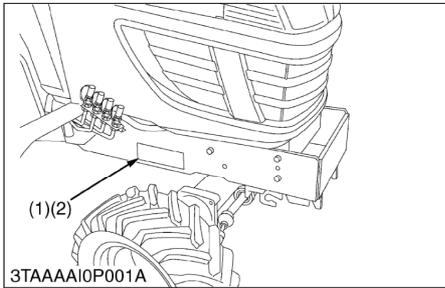
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1. IDENTIFICATION

[1] TRACTOR IDENTIFICATION

(1) Serial Number and Hour Meter

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



- | | |
|----------------------------------|-------------|
| (1) Tractor Identification Plate | [A] BX1870D |
| (2) Tractor Serial Number | [B] BX2370D |
| (3) Engine Serial Number | [C] BX2670D |
| (4) ROPS Serial Number | |
| (5) Hour Meter | |

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