WSM

WORKSHOP MANUAL
FRONT LOADER

LA344,LA344S

Kubota

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3. FRONT LOADER

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SAFETY FIRST

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

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

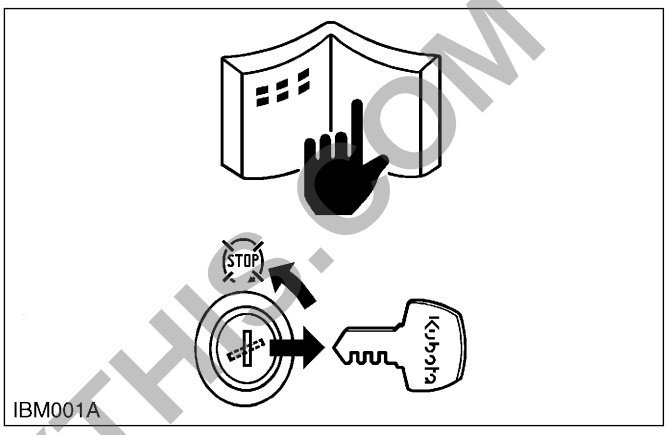
WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

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

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

NOTE
- **Gives helpful information.**

1. Before you start service



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- 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.

2. Start safely


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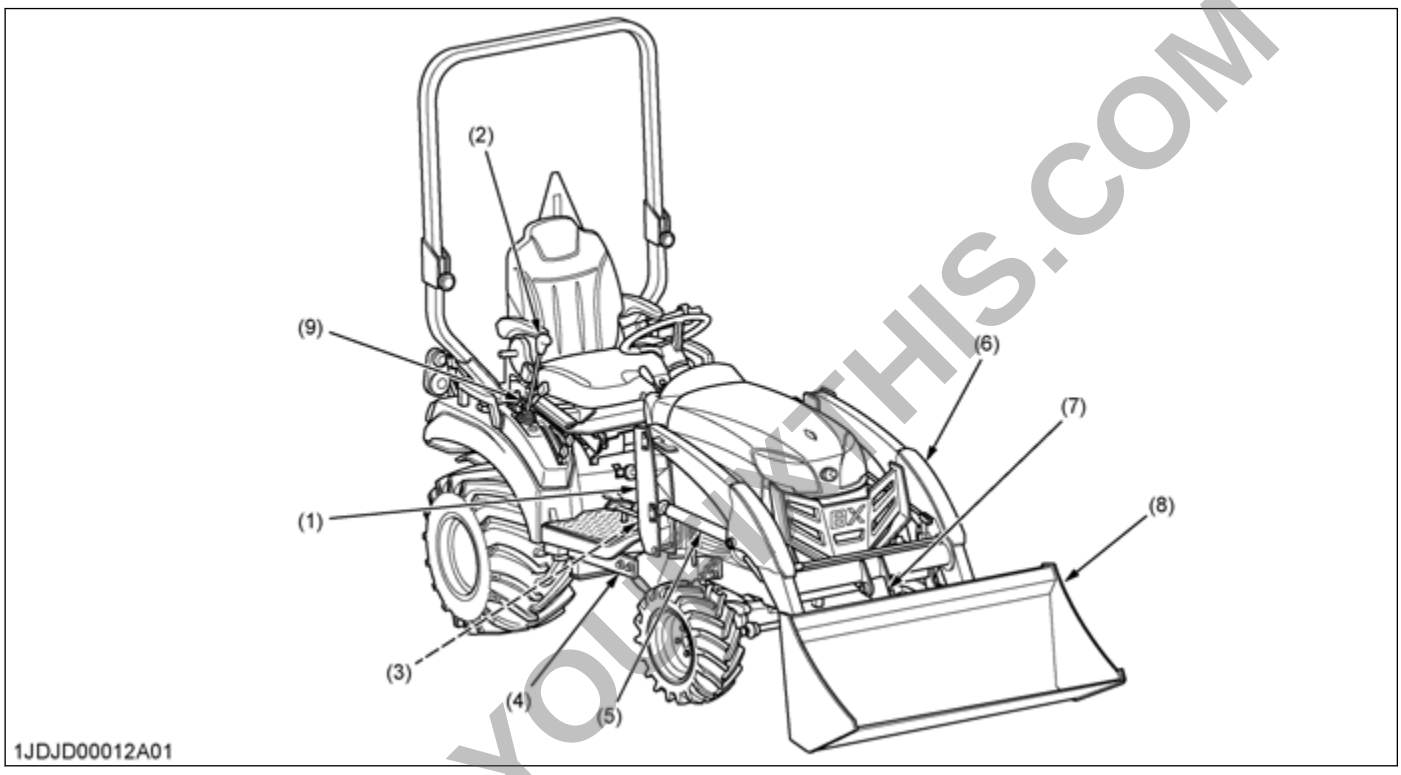
- Do not do the procedures below when you start the engine.
  1. Short across starter terminals.
  2. Bypass the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.

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TERMINOLOGY

1. Loader terminology





(1) Side frame
(2) Hydraulic control lever
(3) Mounting hook
(4) Main frame
(5) Boom cylinder
(6) Boom
(7) Bucket cylinder
(8) Bucket
(9) Lock lever
(10) Mounting lever
(11) Stand lever
(12) Stand rod
(13) Stand

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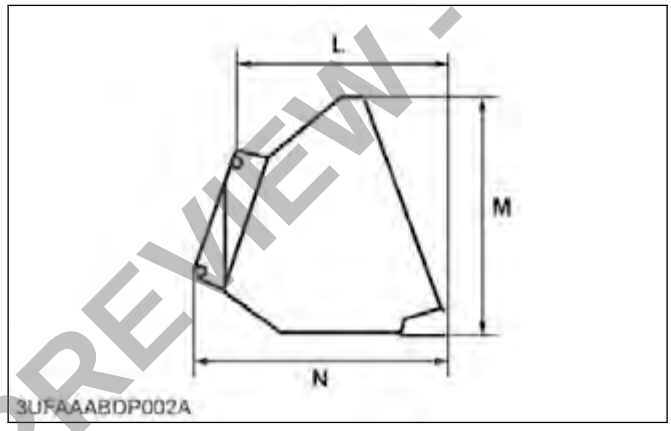
SPECIFICATIONS

1. Specifications for loader

Loader model		LA344		LA344S	
Tractor model		BX1880	BX2380, BX2680, and BX23S	BX1880	BX2380, BX2680, and BX23S
Wheel base (WB)		1400 mm (55.1 in.)			
Front tires		16 × 7.5-8	18 × 8.5-10	16 × 7.5-8	18 × 8.5-10
Rear tires		24 × 12-12	26 × 12-12	24 × 12-12	26 × 12-12
Boom cylinder	Bore	40 mm (1.57 in.)			
	Stroke	326 mm (12.8 in.)			
Bucket cylinder	Bore	65 mm (2.56 in.)			
	Stroke	196 mm (7.7 in.)			
Control valve		One detent float position, single bucket dump, power beyond circuit			
Rated flow		14 L/m (3.7 GPM)			
Maximum pressure		12.8 MPa (130 kg/cm^2, 1850 psi)			
Net weight (approximate)		*217 kg (478 lbs)			

* Include the quick bucket 48 in.

2. Specifications for bucket



Loader model	LA344	LA344S
Model	Square 48 in.	
Type	Rigid	Quick attach
Width	1219 mm (48.0 in.)	
Depth (L)	491 mm (19.3 in.)	470 mm (18.5 in.)
Height (M)	465 mm (18.3 in.)	523 mm (20.6 in.)
Length (N)	538 mm (21.2 in.)	586 mm (23.1 in.)

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LUBRICATING SYSTEM

1. Lubricants

To prevent serious damage to hydraulic systems, use only specified fluid or its equivalent.

Place	Capacity	Lubricants, type of grease
Transmission case	11.3 L 2.99 U.S.qts 2.5 Imp.qts	KUBOTA SUPER UDT fluid*
Grease fitting	Until grease overflows.	Moly Ep type grease**

* KUBOTA original transmission hydraulic fluid

** "Extreme pressure" and containing Molybdenum disulfide is recommended. This grease may specify "Moly Ep" on it's label.

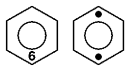
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TIGHTENING TORQUES

1. General use screws, bolts, and nuts

Tighten screws, bolts, and nuts whose tightening torques are not specified in the Workshop Manual according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Indication on top of nut	 No-grade or 4T												 6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit	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	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	—	—	—	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	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	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	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	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

2. Stud bolts

Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	—	—	—
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	—	—	—
M18	172 to 201	17.5 to 20.5	127 to 148	—	—	—

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MAINTENANCE CHECK LIST

1. Loader service intervals

To keep the machine working in good condition as well as to avoid any accident and trouble, carry out periodic inspection and maintenance. Check the following points before use.

Service intervals	Check points	Reference page
Daily (Each use)	Check hydraulic hoses.	2-13
Every 10 hours	Apply all grease fittings.	2-13
Every 50 hours	Check the main frame mounting bolts.	2-14

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