WSM

WORKSHOP MANUAL
FRONT LOADER

LA534A-AU

Kubota

KiSC issued 08, 2014 A

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INFORMATION

CONTENTS

1. SAFETY FIRST I-1
2. SAFETY DECALS I-4
3. LOADER TERMINOLOGY I-6
4. SPECIFICATIONS I-7
   [1] LOADER SPECIFICATIONS I-7
   [2] BUCKET SPECIFICATIONS I-7
   [3] DIMENSIONAL AND OPERATIONAL SPECIFICATIONS I-8

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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.**

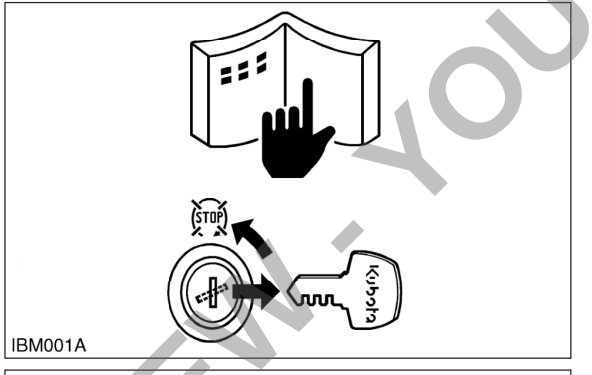
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, 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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4. SPECIFICATIONS

■ Suitable Tractor

Loader Model	LA534A-AU
Tractor Model	B3150

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[1] LOADER SPECIFICATIONS

Loader Model		LA534A-AU
Tractor Model		B3150
Wheel Base		1666 mm (65.6 in.)
Front Tires		7 - 12
Rear Tires		12.4 - 16
Boom Cylinder	Bore	45 mm (1.77 in.)
	Stroke	359.5 mm (14.2 in.)
Bucket Cylinder	Bore	45 mm (1.77 in.)
	Stroke	348.5 mm (13.7 in.)
Control Valve		One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit
Rated Flow		18.9 L/min (4.99 U.S.gals/min, 4.16 Imp.gals/min)
Maximum Pressure		16.6 MPa 169 kgf/cm^2 2408 psi
Net Weight (Approximate)		* 215 kg (474 lbs)

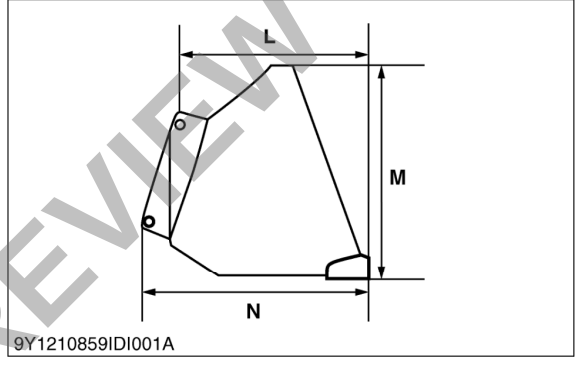
* Include the main frame, rigid bucket 54" and front guard.

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[2] BUCKET SPECIFICATIONS

Loader Model		LA534A-AU	
Size		Square 54"	Square 60" LM
Type		Rigid	Rigid
Width		1370 mm (54.0 in.)	1525 mm (60.0 in.)
Depth (**L**)		478 mm (18.8 in.)	529 mm (20.8 in.)
Height (**M**)		483 mm (19.0 in.)	562 mm (22.1 in.)
Length (**N**)		523 mm (20.6 in.)	566 mm (22.3 in.)
Capacity	Struck	0.166 m^3 (5.9 cu.ft)	0.23 m^3 (8.1 cu.ft)
	Heaped	0.198 m^3 (7.0 cu.ft)	0.29 m^3 (10.2 cu.ft)
Weight		70 kg (154 lbs)	98 kg (216 lbs)

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4. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

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

Indication on top of bolt	⬡ 4 No-grade or 4T						7 8.8 7T or Property class 8.8						9 10.9 9T or Property class 10.9		
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 (6 mm, 0.24 in.)	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 (8 mm, 0.31 in.)	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 (10 mm, 0.39 in.)	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 (12 mm, 0.47 in.)	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 (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

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[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	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 (10 mm, 0.39 in.)	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12 (12 mm, 0.47 in.)	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14 (14 mm, 0.55 in.)	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16 (16 mm, 0.63 in.)	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18 (18 mm, 0.71 in.)	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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5. MAINTENANCE CHECK LIST

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

Service Interval	Check Points	Reference Page
Daily (Each use)	Check the transmission fluid level	G-7
	Check the hydraulic hoses for cuts, wear or signs of oil leaks	G-7
Every 10 hours	Grease all grease fittings	G-7
	Lubricate joints of control lever linkage	–
Every 50 hours	Check tightening torque of the main frame mounting bolts	G-8

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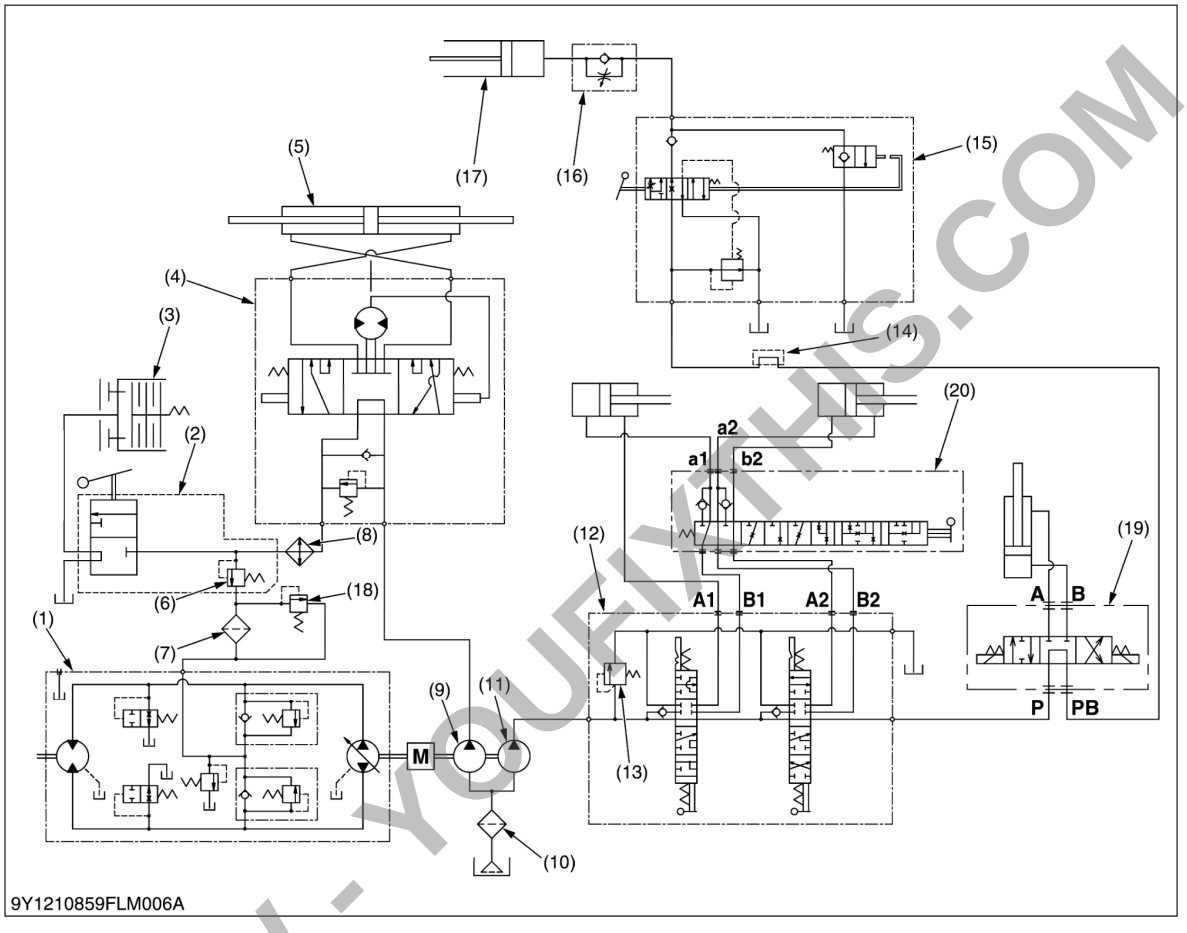
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1. CONTROL VALVE

Regarding the hydraulic circuit, structure and operation of the control valve, refer to B3150 tractor workshop manual.

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(1) Hydrostatic Transmission (HST)
(2) Independent PTO Control Valve
(3) Independent PTO Clutch
(4) Power Steering Controller
(5) Power Steering Cylinder
(6) Relief Valve
(7) Oil Filter Cartridge
(8) Oil Cooler
(9) Hydraulic Pump (For Power Steering. Independent PTO and HST)
(10) Oil Filter Cartridge
(11) Hydraulic Pump (For 3-points Hitch)
(12) Hydraulic Block (For Front Loader)
(13) Relief Valve
(14) Hydraulic Block
(15) Control Valve
(16) Lowering Speed Adjusting Valve
(17) Hydraulic Cylinder
(18) Relief Valve
(19) Third Function Valve (Option)
(20) Spill Guard Valve

A: A Port
A1: A1 Port
A2: A2 Port
B: B Port
B1: B1 Port
B2: B2 Port
a1: a1 Port
a2: a2 Port
b2: b2 Port

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1. TROUBLESHOOTING

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Boom Does Not Rise	1. Transmission fluid is low	Fill the oil to proper level	G-3
	2. Oil is leaking from the hydraulic hose	Solution order 1. Check the connecting parts of the hose	G-7
		2. Check the hose is not worn or damaged	G-7
		3. Replace the hydraulic hose	1-S19
	3. Oil is leaking from the boom cylinder	Solution order 1. Check the piston ring and o-ring are not worn or damaged	1-S24
		2. Check the piston rod is not bent or scratched	1-S25
		3. Replace the piston ring and/or o-ring	1-S24
		4. Replace the piston rod	1-S23
		5. Replace the boom cylinder assembly	1-S19
	4. Control lever linkage is damaged	Solution order 1. Check the length of the control lever linkages	–
		2. Adjust the length of the control lever linkages	–
		3. Replace the control lever linkages	–

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