WSM

WORKSHOP MANUAL
FRONT LOADER

LA714AU,LA854AU

Kubota

KiSC issued 03, 2010 A

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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 attempt to repair or use this unit.**

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

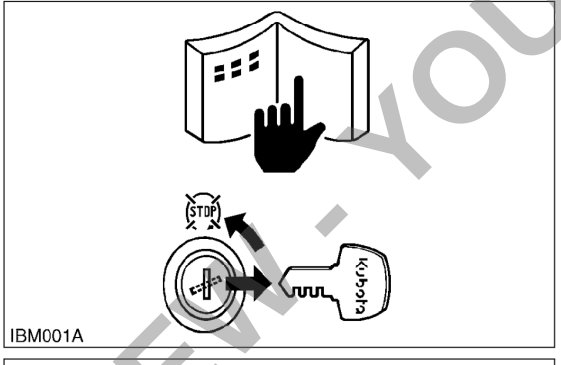
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ 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.**

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IBM002A

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	LA714	LA854
Tractor Model	L3240, L3540, L4240	L5240, L5740

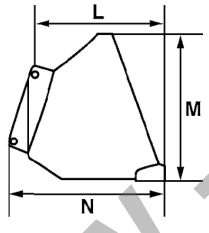
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[1] LOADER SPECIFICATIONS

Loader Model		LA714	LA854
Tractor Model		L4240	L5740
Wheel Base		1895 mm (74.6 in.)	1915 mm (75.4 in.)
Front Tires		8.3 - 16	9.5 - 16
Rear Tires		14.9 - 24	14.9 - 26
Boom Cylinder	Bore	50.0 mm (1.97 in.)	60.0 mm (2.36 in.)
	Stroke	502 mm (19.8 in.)	496 mm (19.5 in.)
Bucket Cylinder	Bore	50.0 mm (1.97 in.)	55.0 mm (2.17 in.)
	Stroke	425 mm (16.7 in.)	469 mm (18.5 in.)
Control Valve	4 position bucket control type	One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit	
Rated Flow		37.0 L/min. 9.8 U.S.gals/min. 8.1 Imp.gals/min.	
Maximum Pressure		18.1 MPa 185 kgf/cm^2 2630 psi	
Net Weight (Approximate)		550 kg (1210 lbs)	650 kg (1430 lbs)

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[2] BUCKET SPECIFICATIONS



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Loader Model		LA714	LA854
Model		Square 66"	Square 72"
Type		Quick attach	Quick attach
Width		1675 mm (65.94 in.)	1830 mm (72.05 in.)
Depth (**L**)		458 mm (18 in.)	547 mm (21.5 in.)
Height (**M**)		562 mm (22.1 in.)	570 mm (22.4 in.)
Length (**N**)		544 mm (21.4 in.)	630 mm (24.8 in.)
Capacity	Struck	0.23 m^3 (8.1 cu.ft)	0.31 m^3 (10.9 cu.ft)
	Heaped	0.28 m^3 (9.9 cu.ft)	0.37 m^3 (13.1 cu.ft)
Weight		120 kg (265 lbs)	150 kg (331 lbs)

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4. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS (FOR FRONT LOADER AND BACKHOE)

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened 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	–	–	–

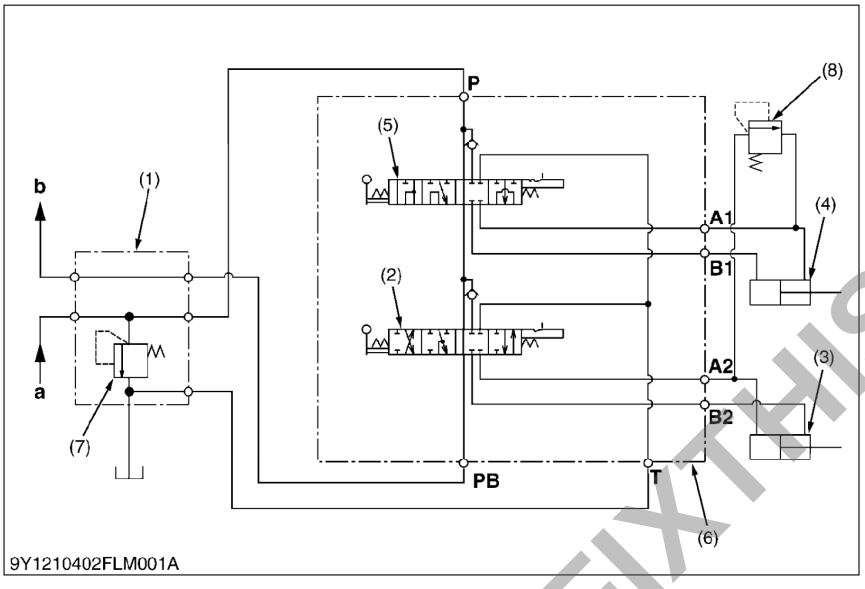
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2. HYDRAULIC CIRCUIT

[1] OIL FLOW



(1) Hydraulic Block
(2) Bucket Control Valve
(3) Bucket Cylinder
(4) Boom Cylinder
(5) Boom Control Valve
(6) Control Valve Assembly
(7) Relief Valve
(8) Port Relief Valve

P : P Port
T : T Port
A1 : A1 Port
B1 : B1 Port
A2 : A2 Port
B2 : P Port
PB : Power Beyond Port
a : From Pump
b : To 3-Point Hydraulic System

LA714, LA854 Loader attache parallel links.
When boom cylinders raise up, these loader operate self-leveling by mechanical.

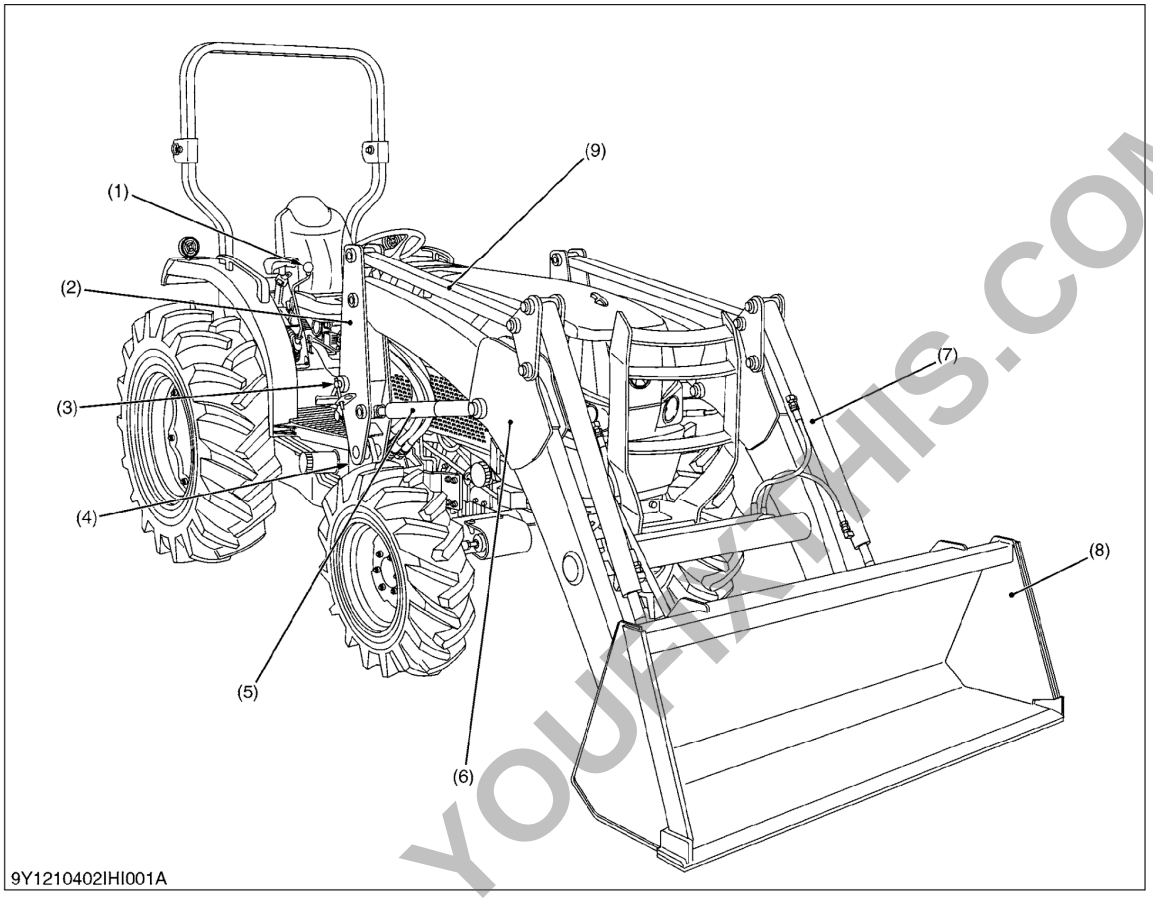
The port relief valve (8) operates to protect hydraulic components.
When boom cylinders raise up, the port relief valve (8) relieves the pressure of bucket cylinder (3) bottom side.

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3. LOADER TERMINOLOGY



(1) Hydraulic Control Lever
(2) Side Frame
(3) Mounting Pin
(4) Main Frame
(5) Boom Cylinder
(6) Boom
(7) Bucket Cylinder
(8) Bucket
(9) Parallel Link

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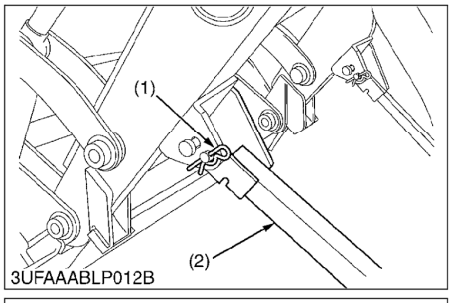
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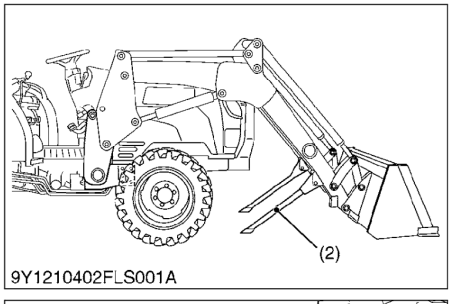
4. DISMOUNTING FRONT LOADER FROM TRACTOR

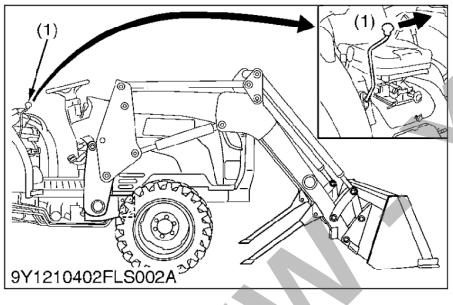
CAUTION

- **When dismounting the loader, park the tractor on flat and hard ground, apply the parking brake.**
- **When starting the engine or using the hydraulic control valve, always sit on the operator's seat.**

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Stand

1. Start the engine and run it at an idle.
2. Raise the boom until the stands (2) can be rotated to the ground.
3. Stop the engine.
4. Remove the snap pins (1) holding the stands (2) to the boom.
5. Rotate the stands until the pin on the stand and hole in the boom are aligned. Then slide the stands (2) outward and insert the spring pin (1) as shown.
6. Start the engine and run at an idle.
7. Dump the bucket approximately 0.35 rad (20 °).
8. Lower the boom and raise the front wheels slightly.

■ **IMPORTANT**

- **Lift the front wheels with the bucket. Do not attempt to lift them with the stands.**

(1) Spring Pin (2) Stand

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Side Frame

1. Remove the mounting pins from the loader main frame and hold them on the boom.
2. Start the engine and run it at an idle.
3. Slowly move the hydraulic control lever (1) to the **"ROLL-BACK"** position to raise the loader side frames up and out of the receivers of the main frames as shown.
4. Stop the engine.

(1) Hydraulic Control Lever

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