WSM

WORKSHOP MANUAL
FRONT LOADER

LA434AU

Kubota

KiSC issued 11, 2015 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 try to repair or use this unit.**

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

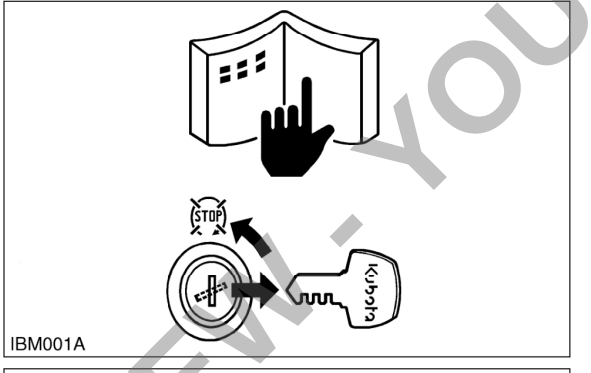
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ 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.**

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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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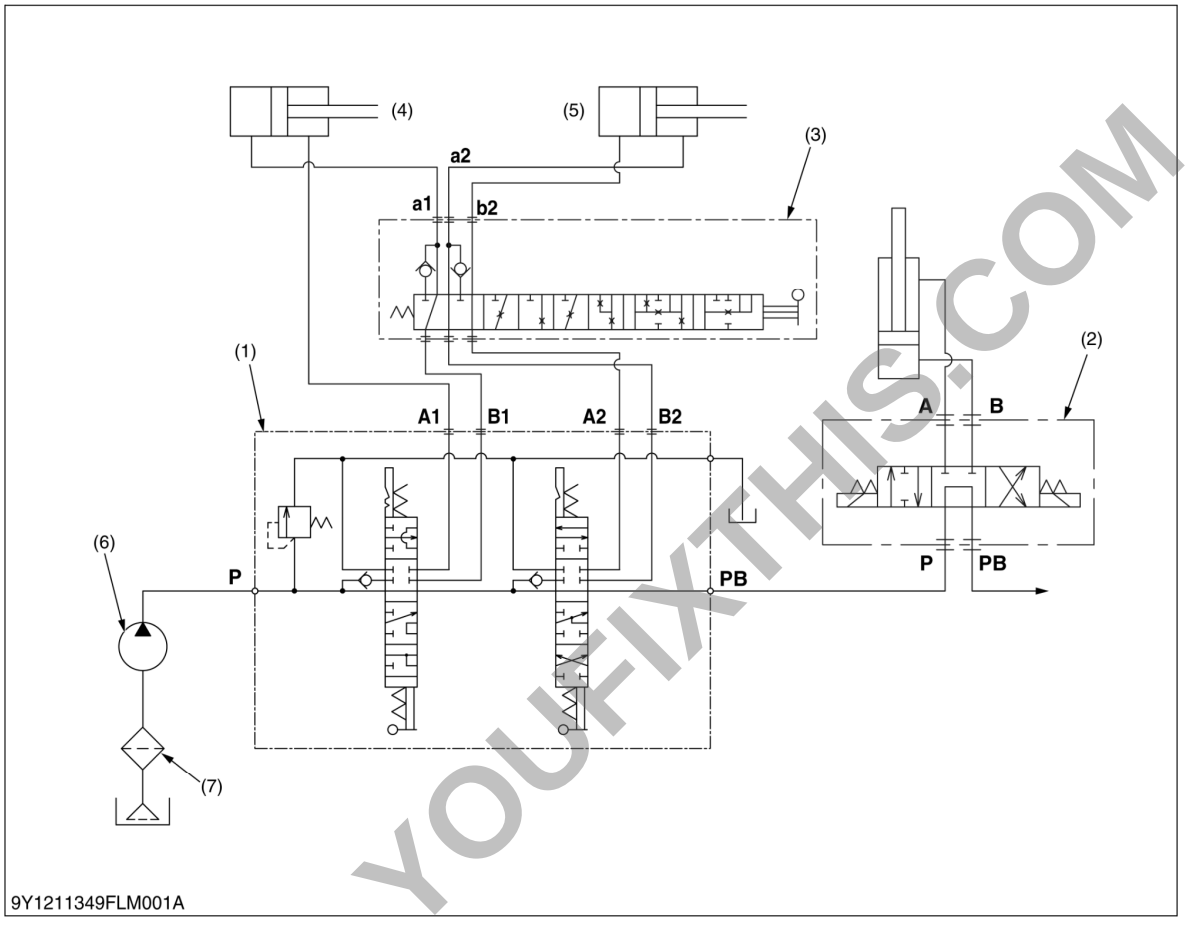
START SAFELY

- 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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1. HYDRAULIC CIRCUIT FOR FRONT LOADER



(1) Control Valve (For Front Loader)
(2) Third Function Valve (Option)
(3) Spill Guard Valve
(4) Bucket Cylinder
(5) Boom Cylinder
(6) Hydraulic Pump (For 3-point Hitch and Front Loader)
(7) Oil Filter Cartridge

A: A Port
A1: A1 Port
A2: A2 Port
B: B Port
B1: B1 Port
B2: B2 Port

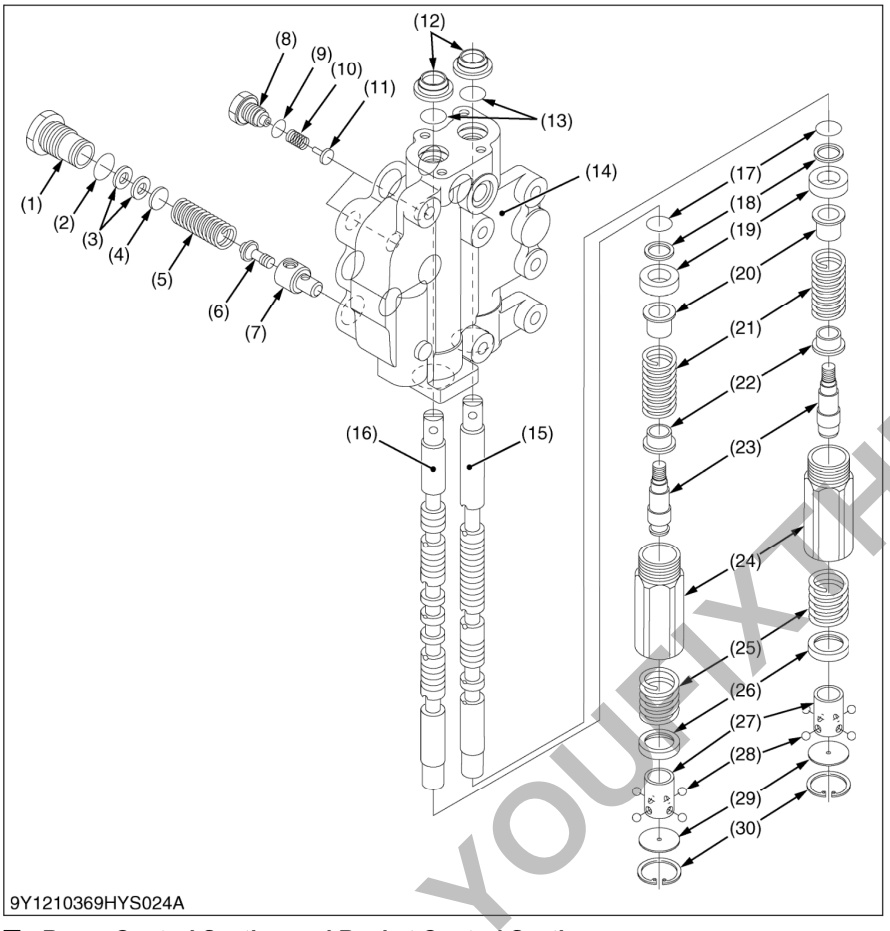
a1: a1 Port
a2: a2 Port
b2: b2 Port
P: Pump Port
PB: Power Beyond Port

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(2) Disassembling Front Loader Control Valve and Relief Valve



(1) Plug
(2) O-ring
(3) Washer
(4) Shim
(5) Spring
(6) Poppet 2
(7) Poppet 1
(8) Plug
(9) O-ring
(10) Spring
(11) Check Valve
(12) Dust Seal
(13) O-ring
(14) Valve Body
(15) Spool for Boom
(16) Spool for Bucket
(17) O-ring
(18) Backup Ring
(19) Collar
(20) Spring Holder 1
(21) Spring
(22) Spring Holder 2
(23) Detent Bolt 1
(24) Plug
(25) Detent Spring
(26) Detent Ring
(27) Stopper
(28) Ball
(29) Plate
(30) Internal Circlip

■ **Boom Control Section and Bucket Control Section**

1. Remove the plug (8), the spring (10) and load check valve (11).
2. Remove the plug (24) from valve body (14).
3. Remove the internal circlip (30), the stopper (27), detent spring (25), detent ring (26), and ball (28).
4. Draw out the spool (15), (16) with other component parts from valve body (14).

■ **Relief Valve**

1. Remove the plug (1), the spring (5) and poppet (6), (7).

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3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts: Refer to "4. TIGHTENING TORQUES" on page G-4.)

Item	N·m	kgf·m	lbf·ft
Rear wheel mounting nut	145 to 150	14.8 to 15.3	107 to 111
Front loader pipe joint bolt	48 to 56	4.9 to 5.7	36 to 41
Three points hitch delivery pipe 1 joint bolt	48 to 56	4.9 to 5.7	36 to 41
Three points hitch delivery pipe 2 joint bolt (Front loader control valve side)	48 to 56	4.9 to 5.7	36 to 41
Three points hitch delivery pipe 2 joint bolt (Hydraulic cylinder case side)	50 to 60	5.1 to 6.1	37 to 44
Front guard mounting bolt and nut	132.0 to 147.0	13.5 to 15.0	97.4 to 108.0
Main frame mounting bolt (M14) (Front axle frame side)	147	15.0	108
Main frame mounting bolt and nut (M12) (Center frame side)	80.0	8.2	59.0
Main frame mounting bolt and nut (M12) (Clutch housing)	90	9.2	66.5
Boom cylinder head mounting torque	200 to 230	20.4 to 23.4	148 to 169
Bucket cylinder head mounting torque	200 to 230	20.4 to 23.4	148 to 169
Boom cylinder piston mounting torque	150 to 180	15.3 to 18.3	111 to 132
Bucket cylinder piston mounting torque	150 to 180	15.3 to 18.3	111 to 132
Spill guard valve mounting screw (M8)	24 to 27	2.5 to 2.7	18 to 20

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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	
	2. Oil is leaking from the hydraulic hose	Solution order 1. Check the connecting parts of the hose	
		2. Check the hose is not worn or damaged	
		3. Replace the hydraulic hose	
	3. Oil is leaking from the boom cylinder	Solution order 1. Check the piston ring and o-ring are not worn or damaged	
		2. Check the piston rod is not bent or scratched	
		3. Replace the piston ring and/or o-ring	
		4. Replace the piston rod	
		5. Replace the boom cylinder assembly	
	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	–
	5. Relief valve is damaged	Solution order 1. Check the operating pressure of relief valve	Tractor WSM
		2. Adjust the relief valve operating pressure	Tractor WSM
		3. Check the oil filter cartridge condition	Tractor WSM
		4. Clean the oil filter cartridge	Tractor WSM
		5. Replace the oil filter cartridge	Tractor WSM
		6. Check the relief valve is not dirty	Tractor WSM
		7. Clean the relief valve	Tractor WSM
		8. Replace the relief valve assembly if the pressure is not sufficient	Tractor WSM
	6. Hydraulic pump is malfunctioning	Solution order 1. Check the pump delivery oil flow rate	Tractor WSM
		2. Replace the hydraulic pump if oil flow rate does not reach to allowable limit	Tractor WSM

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4. SPECIFICATIONS

■ **Suitable Tractor**

Loader Model	LA434AU
Tractor Model	B2301, B2601

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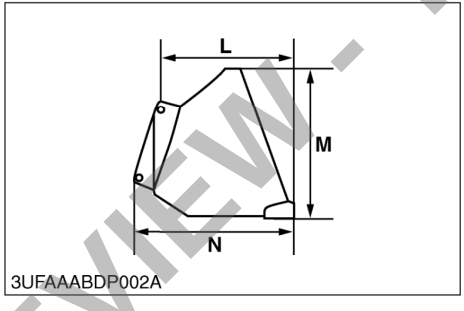
[1] LOADER SPECIFICATIONS

Loader Model		**LA434AU**
Tractor Model		**B2301, B2601**
Wheel Base (**WB**)		1563 mm (61.5 in.)
Front Tires		6-12 (B2301) / 7-12 (B2601)
Rear Tires		9.5-16 (B2301) / 9.5-18 (B2601)
Boom Cylinder	Bore	45 mm (1.77 in.)
	Stroke	349 mm (13.7 in.)
Bucket Cylinder	Bore	45 mm (1.77 in.)
	Stroke	336 mm (13.2 in.)
Control Valve		One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit
Rated Flow		17.9 L/min (4.7 U.S.gals/min., 3.9 Imp.gals/min.)
Maximum Pressure		13.8 MPa (141 kg/cm^2, 2000 psi)
Net Weight (Approximate)		213 kg (470 lbs)

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[2] BUCKET SPECIFICATIONS

Loader Model		**LA434AU**		
Model		Square 50"	Square 54"	Square 60" LM
Type		Rigid		
Width		1270 mm (50 in.)	1372 mm (54 in.)	1525 mm (60.0 in.)
Depth (**L**)		478 mm (18.8 in.)	478 mm (18.8 in.)	529 mm (20.8 in.)
Height (**M**)		483 mm (19.0 in.)	483 mm (19.0 in.)	562 mm (22.1 in.)
Length (**N**)		523 mm (20.6 in.)	523 mm (20.6 in.)	566 mm (22.3 in.)
Capacity	Struck	0.154 m^3 (5.4 cu.ft)	0.166 m^3 (5.9 cu.ft)	0.23 m^3 (8.1 cu.ft)
	Heaped	0.184 m^3 (6.5 cu.ft)	0.198 m^3 (7.0 cu.ft)	0.29 m^3 (10.2 cu.ft)
Weight		68 kg (150 lbs)	70 kg (154 lbs)	98 kg (216 lbs)



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