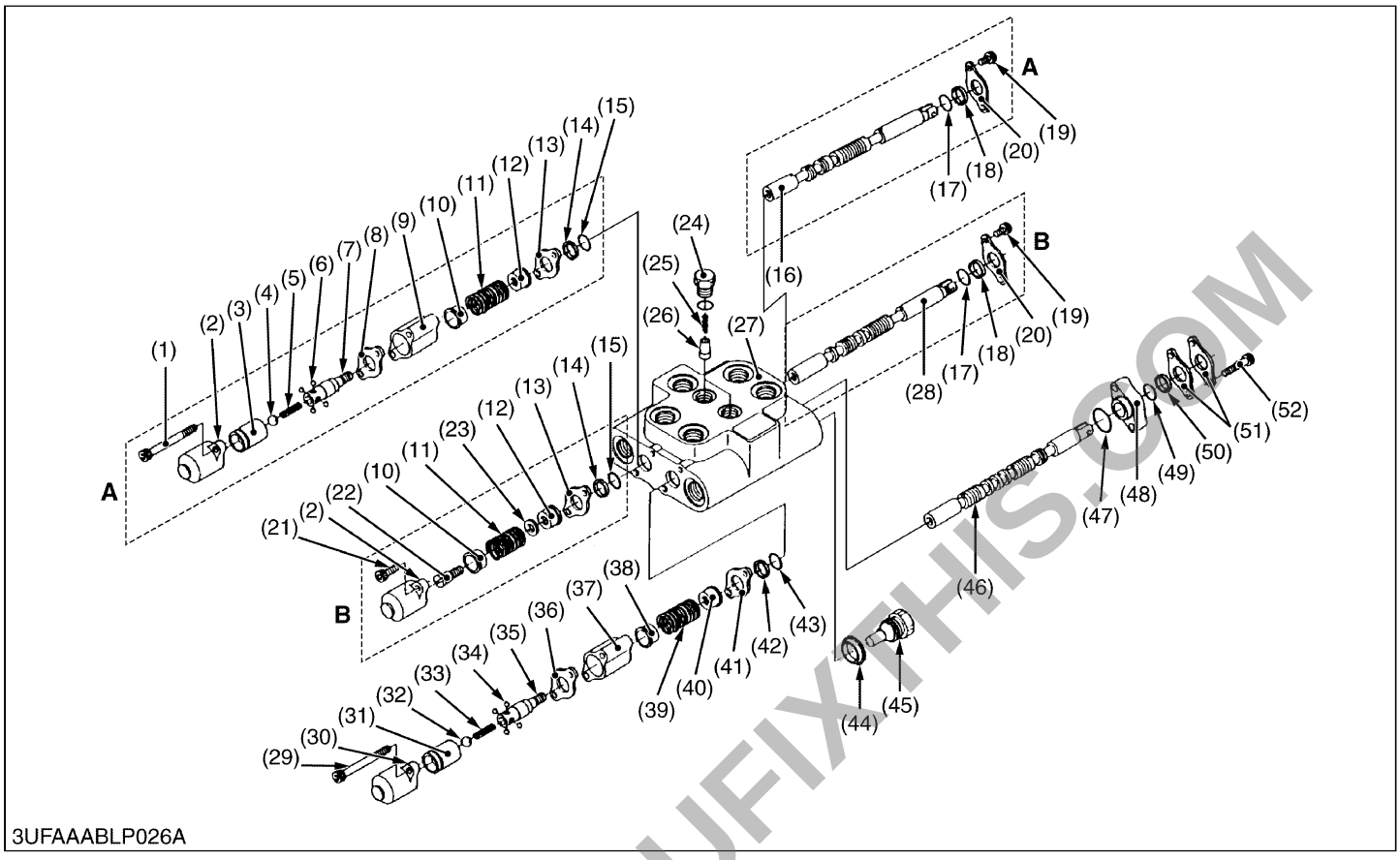
Disassembling Control Valve



3UFAAABLP026A

(1) Screw
(2) Cap
(3) Sleeve
(4) Ball
(5) Spring
(6) Ball
(7) Pin
(8) Seal Plate
(9) Spacer
(10) Spring Seat
(11) Spring
(12) Spring Seat
(13) Seal Plate
(14) Wiper Ring
(15) O-ring
(16) Spool for Bucket
(17) O-ring
(18) Wiper Ring
(19) Screw
(20) Seal Plate
(21) Screw
(22) Cap Screw
(23) Collar
(24) Plug
(25) Spring
(26) Load Check Valve
(27) Valve Housing
(28) Spool for Bucket
(29) Screw
(30) Cap
(31) Sleeve
(32) Ball
(33) Spring
(34) Ball
(35) Pin
(36) Seal Plate
(37) Spacer
(38) Spring Seat
(39) Spring
(40) Spring Seat
(41) Seal Plate
(42) Wiper Ring
(43) O-ring
(44) Seal Ring
(45) Plug
(46) Spool for Boom
(47) O-ring
(48) Spacer
(49) O-ring
(50) Wiper Ring
(51) Seal Plate
(52) Screw

A : 4 Position Bucket Control Type
B : 3 Position Bucket Control Type

■ Boom Control Section

1. Remove the plug (24) and take out the spring (25) and load check valve (26).
2. Remove the seal plates (51), wiper ring (50) and spacer from the valve housing (27).
3. Remove the cap (30) and spacer (37), and draw out the spool (46) with other component parts from valve housing (27).

■ Bucket Control Section

1. Remove the plug (24) and take out the spring (25) and load check valve (26).
2. Remove the seal plate (20) and wiper ring (18) from the valve housing (27).

[3 Position Bucket Control Type]

3. Remove the cap (2), seal plate (13) and wiper ring (14), and draw out the spool (28) with other component parts from the valve housing (27).

[4 Position Bucket Control Type]

3. Remove the cap (2), seal plate (8), spacer (9), seal plate (13) and wiper ring (14), and draw out the spool (16) with other component parts from the valve housing (27).

(When reassembling)

- Clean all parts with a suitable solvent, and dry with a lint-free cloth or air.
- Visually inspect all parts for signs of scoring of damage.
- Install the spool and spacer to the valve housing, using care not to damage the O-rings.

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4. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

American standard cap screws with UNC or UNF Threads				Metric cap screws			
Grade	SAE 5 or 8			Grade	Property class 8.8 (Approx. SAE grade 5)		
Unit / Size	N·m	kgf·m	ft-lbs	Unit / Size	N·m	kgf·m	ft-lbs
1/4	9.8 to 11.7	1.0 to 1.2	7.2 to 8.6	M6	9.8 to 11.2	1.0 to 1.1	7.2 to 8.3
5/16	19.0 to 23.1	1.9 to 2.4	14 to 17	M8	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2
3/8	33.9 to 40.7	3.5 to 4.2	25 to 30	M10	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2
1/2	88.1 to 105.8	9.0 to 10.8	65 to 78	M12	77.5 to 90.1	7.9 to 9.2	57.2 to 66.5
9/16	122.0 to 146.4	12.4 to 14.9	90 to 108	M14	124 to 147	12.6 to 15.0	91.2 to 108
5/8	176.3 to 211.5	18.0 to 21.6	130 to 156	M16	196 to 225	20.0 to 23.0	145 to 166

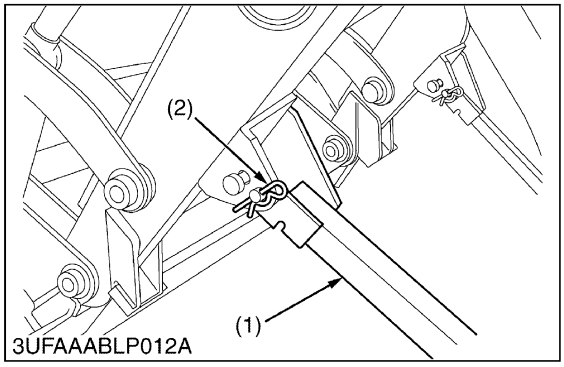
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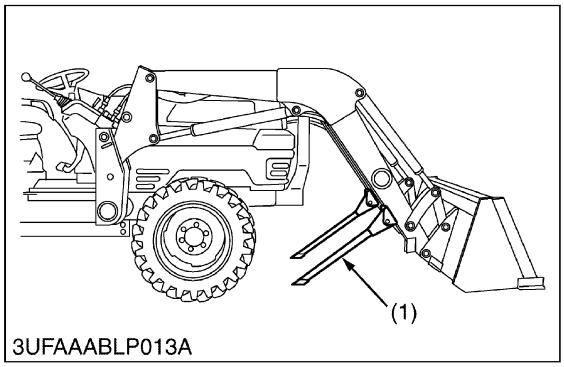
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5. DISMOUNTING FRONT LOADER FROM TRACTOR

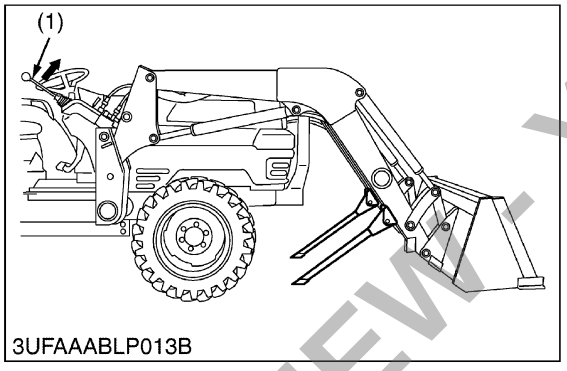
■ **IMPORTANT**
- **When dismounting the loader, park the tractor on flat and hard ground, apply the parking brake.**
- **When starting the engine or using the hydraulic control valve, always sit on the operator's seat.**



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3UFAAABLP013A



3UFAAABLP013B

Stand

1. Start the engine and run at an idle.
2. Raise the boom until the stands (1) can be rotated.
3. Stop the engine.
4. Remove the snap pins (2) holding the stands (1) to the boom.
5. Rotate the stands until the pin on the stand and hole in the boom are aligned. Then slide the stands (1) outward and insert the spring pin (2) 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.**

9. Stop the engine.

(1) Stand (2) Spring Pin

W1014212

Side Frame

1. Remove the mounting pins from the loader main frame and hold them on the boom.
2. Start the engine and run 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.

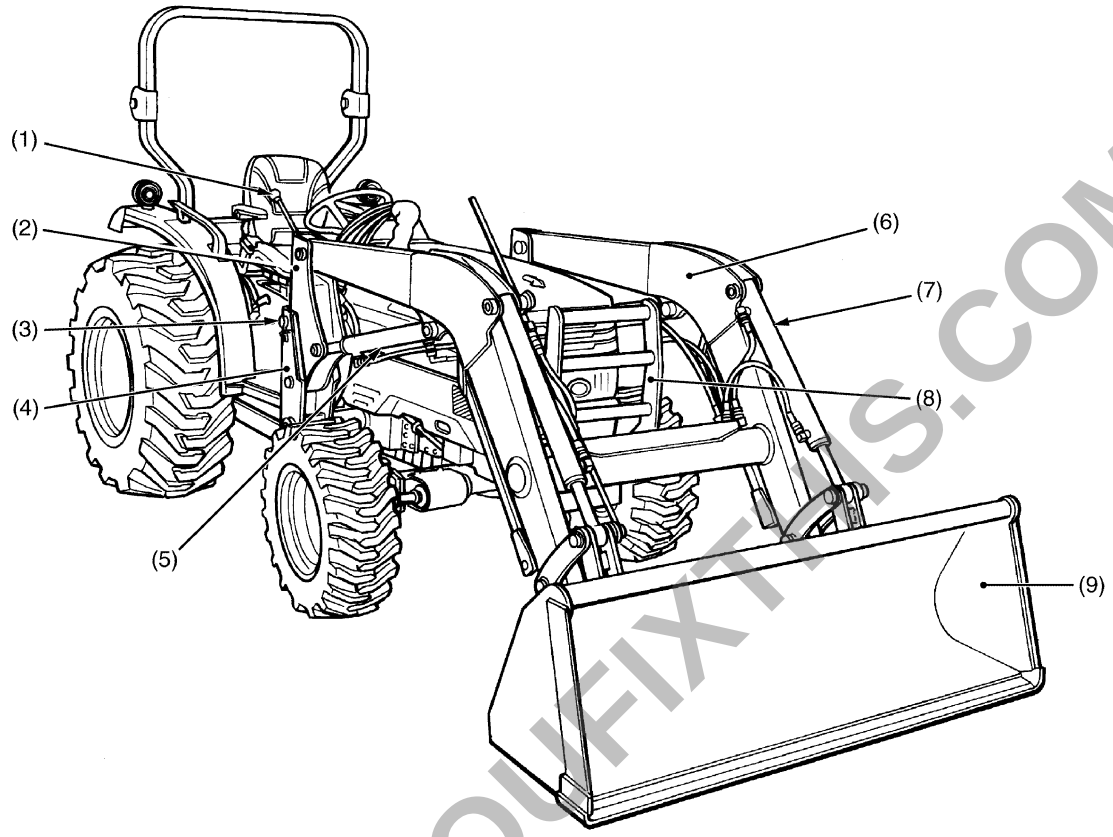
(1) Hydraulic Control Lever

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LOADER TERMINOLOGY



3UFAAABDP001A

(1) Loader Control Lever
(2) Side Frame
(3) Mounting Pin
(4) Main Frame
(5) Boom Cylinder
(6) Boom
(7) Bucket Cylinder
(8) Front Guard
(9) Bucket

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SPECIFICATIONS

■ Suitable Tractor

Loader Model	LA513	LA723	LA853
Tractor Model	L3130, L3430	L3130, L3430, L3830	L4330, L4630, L5030

W1029088

[1] LOADER SPECIFICATIONS

Loader Model		LA513	LA723	LA853
Tractor Model		L3430	L3830	L5030
Wheel Base		1805 mm (71.1 in.)	1805 to 1840 mm (71.1 to 72.4 in.)	1895 to 1915 mm (74.6 to 75.4 in.)
Front Tires		7.2-16	8.3-16	9.5-16
Rear Tires		12.4-24	12.4-24 or 14.9-24	14.9-26
Boom Cylinder	Bore	45.0 mm (1.77 in.)	50.0 mm (1.97 in.)	60.0 mm (2.36 in.)
	Stroke	476 mm (18.7 in.)	502 mm (19.8 in.)	496 mm (19.5 in.)
Bucket Cylinder	Bore	45.0 mm (1.77 in.)	50.0 mm (1.97 in.)	55.0 mm (2.17 in.)
	Stroke	476 mm (18.7 in.)	465 mm (18.3 in.)	469 mm (18.5 in.)
Control Valve	3 position bucket control type	One Detent Float Position, Power Beyond Circuit		
	3 position bucket control type	One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit		
Rated Flow		31.5 L/min. 8.3 U.S.GPM 6.9 Imp.GPM		37.0 L/min. 9.8 U.S.GPM 8.1 Imp.GPM
Maximum Pressure		18.1 MPa 185 kgf/cm^2 2630 psi		
Net Weight (Approximate)		390 kg (860 lbs)	480 kg (1058 lbs)	525 kg (1157 lbs)

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⚠ 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.

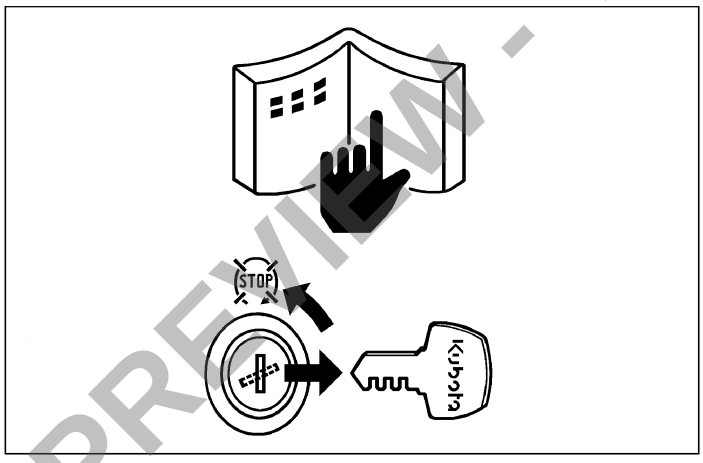
⚠ **DANGER** : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

⚠ **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.**



BEFORE SERVICING AND REPAIRING

- 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 firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

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SERVICING

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WSM

WORKSHOP MANUAL
FRONT LOADER

LA513 · LA723 · LA853

Kubota

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