WSM

WORKSHOP MANUAL
FRONT LOADER

LA703

Kubota

KiSC issued 03, 2008 A

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SERVICING

CONTENTS

1. GENERAL S-1
   [1] IDENTIFICATION S-1
   [2] GENERAL PRECAUTION S-1
   [3] LUBRICANTS S-1
   [4] MAINTENANCE CHECK LIST S-1
   [5] CHECK AND MAINTENANCE S-2
      (1) Check Points of Each Use or Daily S-2
      (2) Check Points of Every 10 Hours S-2
2. TROUBLESHOOTING S-3
3. SERVICING SPECIFICATIONS S-4
4. TIGHTENING TORQUES S-5
   [1] GENERAL USE SCREWS, BOLTS AND NUTS S-5
   [2] HYDRAULIC FITTINGS S-6
   [3] TIGHTENING TORQUE S-7
5. DISMOUNTING FRONT LOADER FROM TRACTOR S-8
6. CHECKING, DISASSEMBLING AND SERVICING S-10
   [1] CONTROL VALVE S-10
      (1) Checking and Adjusting S-10
      (2) Disassembling and Assembling S-10
   [2] BUCKET, BOOM AND HYDRAULIC CYLINDERS S-14
      (1) Disassembling and Assembling S-14
      (2) Servicing S-17
   [3] SIDE FRAME, MAIN FRAME AND OTHERS S-18
      (1) Disassembling and Assembling S-18

PREVIEW - YOUFIXTHIS.COM

KiSC issued 03, 2008 A

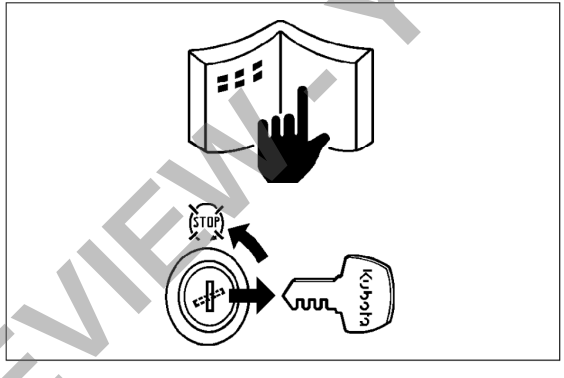
Download full manual at youfixthis.com

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.**



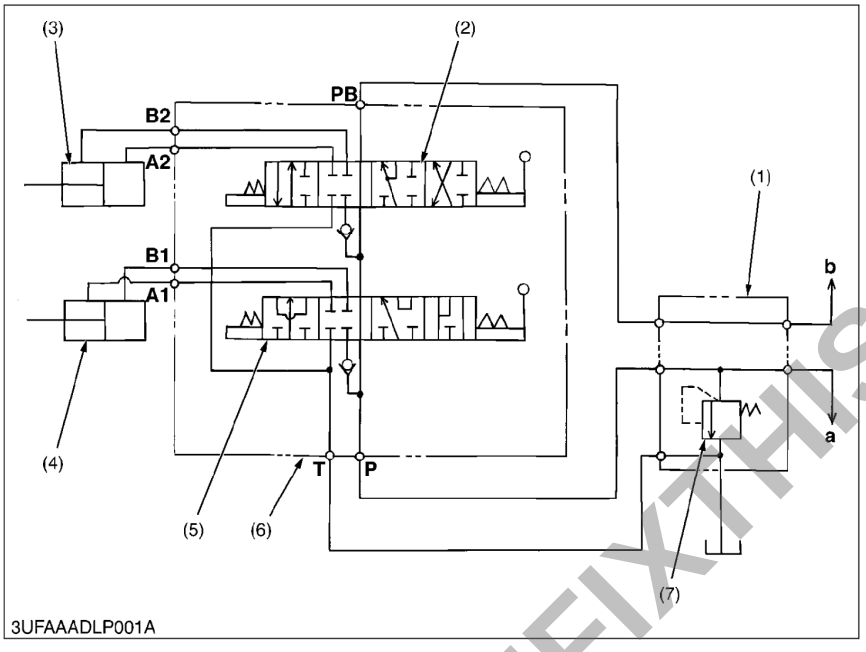
BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your engine safety decals.
- Clean the work area and engine.
- Park the machine on a firm and level ground.
- Allow the engine to cool before proceeding.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. HYDRAULIC CIRCUIT



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

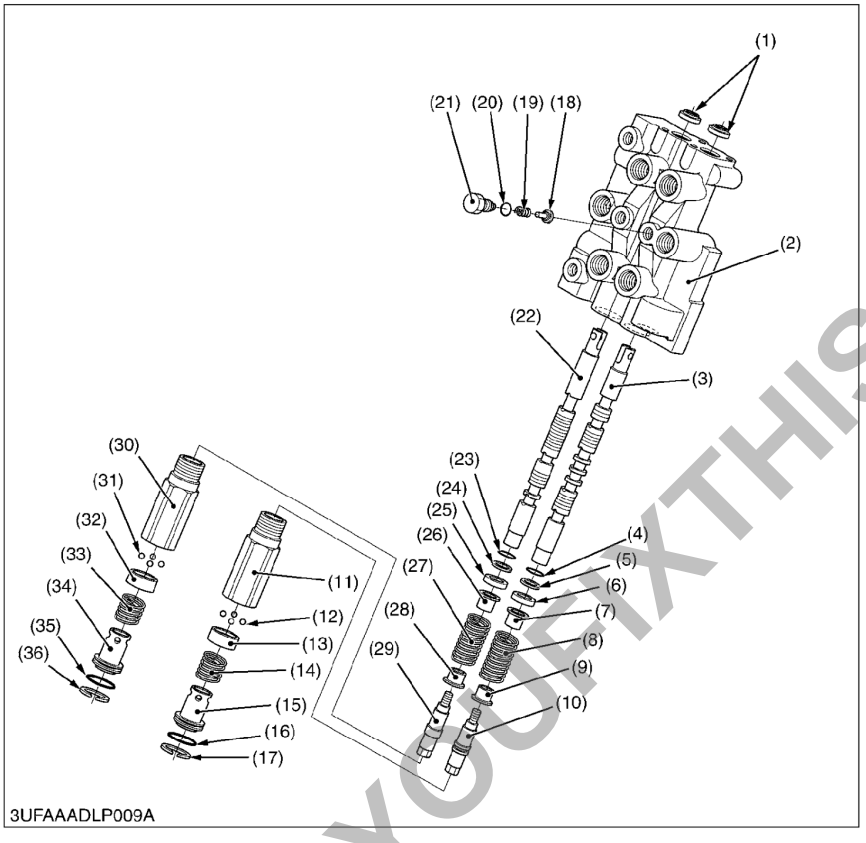
P : P Port
T : T Port
A1 :A1 Port
B1 :B1 Port
A2 :A2 Port
B2 :B2 Port
PB :Power Beyond Port
a : From Pump
b : To 3-Point Hydraulic System

W1016476

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Disassembling Control Valve



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

W1018588

Boom Control Section and Bucket Control Section

1. Remove the plug (21) and take out the spring (19) and load check valve (18).
2. Remove the plug (11), (30) from valve body (2).
3. Remove the ring (17), (36) and take out the stopper (15), (34), detent spring (14), (33), detent ring (13), (32) and ball (12), (31).
4. Draw out the spool (3), (22) with other component parts from valve body (2).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[3] TIGHTENING TORQUE

Item		N·m	kgf·m	lbf·ft
Control valve cover mounting screw	M6 × 1.00-16	9.8 to 10	1.0 to 1.1	7.3 to 7.9
Control valve stay mounting bolt and nut	M12 × 30	95.1	9.70	70.2
Control valve mounting bolt and nut		23.1 to 27.1	2.35 to 2.77	17.0 to 20.0
Adapter and elbow		47.1 to 53.9	4.80 to 5.50	34.8 to 39.7
Nipple		38.3 to 43.1	3.90 to 4.40	28.2 to 31.8
Cylinder head		197 to 225	20.0 to 23.0	145 to 166
Boom cylinder piston mounting nut		220 to 250	22.4 to 25.5	162 to 184
Bucket cylinder piston mounting nut		157 to 196	16.0 to 20.0	116 to 144
Front guard mounting bolt and nut	M14	124 to 147	12.6 to 15.0	91.2 to 108
Main frame mounting screw, bolt and nut	M16	226	23.0	166
	M12	90.2	9.20	66.5
Sub frame mounting screw, bolt and nut	M16	226	23.0	166
	M12	90.2	9.20	66.5

W1012736

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

Suitable Tractor

Loader Model	LA703
Tractor Model	L4400

W1029088

[1] LOADER SPECIFICATIONS

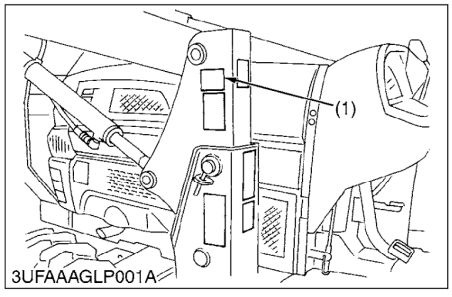
Loader Model		LA703
Tractor Model		L4400
Wheel Base (WB)		1845 mm (72.6 in.)
Front Tires		8.00 - 16
Rear Tires		14.9 - 24
Boom Cylinder	Bore	50 mm (1.97 in.)
	Stroke	502 mm (19.76 in.)
Bucket Cylinder	Bore	50mm (1.97 in.)
	Stroke	480.5 mm (18.92 in.)
Control Valve	4-position bucket control type	One Detent Float Position, Two-Stage Bucket Dump, Power Beyond Circuit
Rated Flow		29.4 L/min. 7.77 U.S.gals/min. 6.47 Imp.gals/min.
Maximum Pressure		17.7 MPa 180 kgf/cm^2 2560 psi
Net Weight (Approximate)		480 kg (1058 lbs)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. GENERAL

[1] IDENTIFICATION

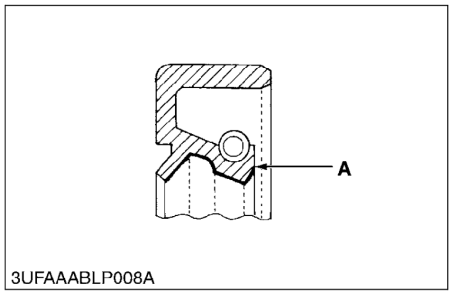


When contacting your local KUBOTA distributor, always specify front loader model and serial number.

(1) Model / Serial Number

W1010491

[2] GENERAL PRECAUTION



- During disassembly, carefully arrange removed parts in a clean area to prevent later confusion. Screws, bolts and nuts should be replaced in their original positions to prevent reassembly errors.
- When special tools are required, use genuine KUBOTA tools. Special tools which are not used frequently should be made according to the drawings provided.
- Clean parts before measuring them.
- Use only genuine KUBOTA parts for parts replacement to maintain loader performance and to assure safety.
- O-ring and oil seals must be replaced during reassembly. Apply grease to new O-rings or oil seals before reassembling.

A : Grease

W1010531

[3] LUBRICANTS

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

Place	Capacities		Lubricants
	L4400	L4400HST	
Transmission Case (Front loader is not attached)	40.0 L 10.6 U.S.gals 8.80 Imp.gals	45.0 L 11.9 U.S.gals 9.90 Imp.gals	KUBOTA UDT or SUPER UDT Fluid *1
Grease fitting	Until grease overflows		Multi-purpose type grease

NOTE

- ***1 KUBOTA UDT or SUPER UDT Fluid**.....KUBOTA original transmission hydraulic fluid

W1010650

[4] MAINTENANCE CHECK LIST

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 Interval	Check Points	Reference Page
Daily (Each use)	• Check the transmission fluid level • Check the hydraulic hoses	S-2 S-2
Every 10 hours	• Grease all grease fitting • Lubricate joints of control lever linkage	S-2 S-2

W1010764

KiSC issued 03, 2008 A

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 46 pages

The full manual includes:

- All 46 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota LA703 Workshop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual