WSM

WORKSHOP MANUAL
FRONT LOADER

LA714AU-C

Kubota

KiSC issued 07, 2012 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.**

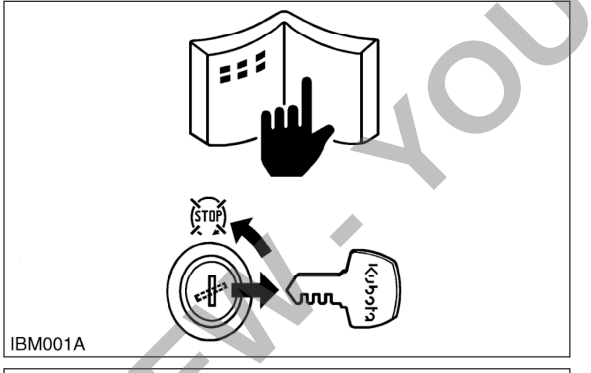
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ 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	LA714AU-C
Tractor Model	L4600

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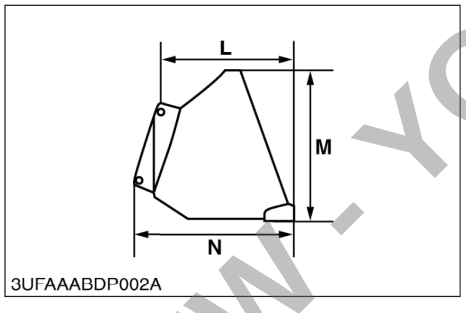
[1] LOADER SPECIFICATIONS

Loader Model		LA714AU-C
Tractor Model		L4600
Wheel Base		1845 mm (72.64 in.)
Front Tires		8.3 - 16
Rear Tires		14.9 - 24
Boom Cylinder	Bore	50.0 mm (1.97 in.)
	Stroke	520 mm (20.5 in.)
Bucket Cylinder	Bore	50.0 mm (1.97 in.)
	Stroke	480.5 mm (18.92 in.)
Control Valve		3 position bucket control valve type
Rated Flow		29.4 L/min. 7.77 U.S.gals/min. 6.47 Imp.gals/min.
Maximum Pressure		18.1 MPa 185 kgf/cm^2 2630 psi
Net Weight (Approximate)		*560 kg (1230 lbs)

* Include the main frame, quick attach coupler, quick bucket 66", front guard and control valve.

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[2] BUCKET SPECIFICATIONS



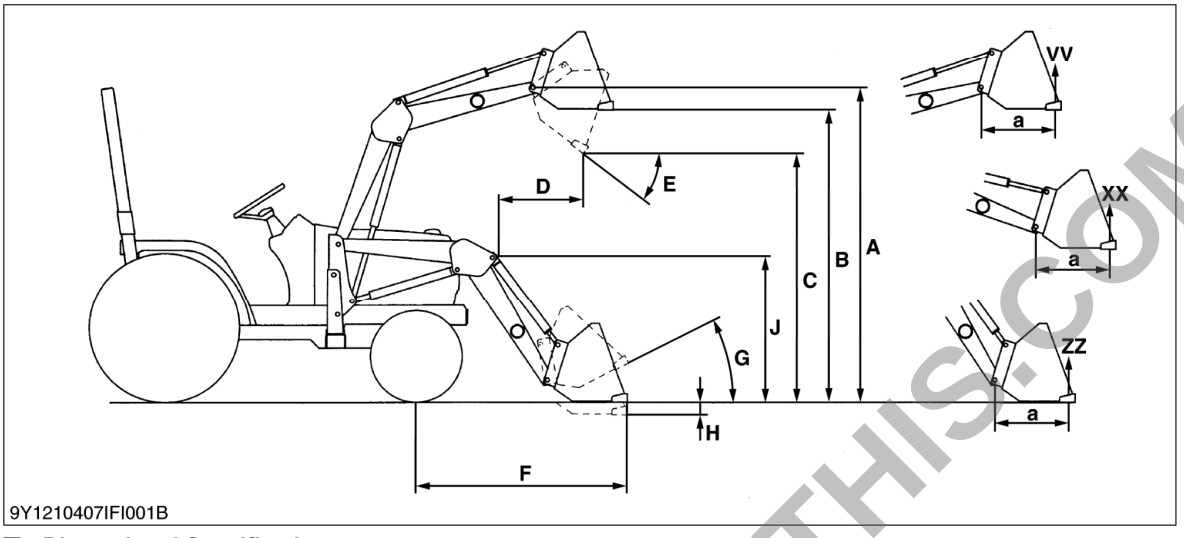
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Loader Model		LA714AU-C
Model		Square 66"
Type		Quick attach
Width		1675 mm (65.94 in.)
Depth (**L**)		458 mm (18 in.)
Height (**M**)		562 mm (22.1 in.)
Length (**N**)		544 mm (21.4 in.)
Capacity	Struck	0.23 m^3 (8.1 cu.ft)
	Heaped	0.28 m^3 (9.9 cu.ft)
Weight		120 kg (265 lbs)

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[3] DIMENSIONAL AND OPERATIONAL SPECIFICATIONS



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■ Dimensional Specifications

Loader Model		LA714AU-C
Tractor Model		L4600
A	Maximum lift height (To bucket pivot pin)	2604 mm (102.5 in.)
B	Maximum lift height under level bucket	2412 mm (94.96 in.)
C	Clearance with bucket dumped	2011 mm (79.17 in.)
D	Reach at maximum lift height (Dumping reach)	638 mm (25.1 in.)
E	Maximum dump angle	44 deg. (0.77 rad)
F	Reach with bucket on ground	1756 mm (69.13 in.)
G	Bucket roll-back angle	47.5 deg. (0.829 rad)
H	Digging depth	104 mm (4.09 in.)
J	Overall height in carry position	1518 mm (59.76 in.)
a	Length	500 mm (19.7 in.)

■ Operational Specifications

Loader Model		LA714AU-C
Tractor Model		L4600
Lift capacity to maximum height (Bucket bottom mid point)		500 kg (1100 lbs)
VV	Bucket roll-back force at Maximum height	8686 N (1953 lbf)
XX	Bucket roll-back force at 1.5 m (59 in.) lift height	12435 N (2795.5 lbf)
ZZ	Bucket roll-back force at ground level	12551 N (2821.6 lbf)
Raising time		3.4 sec.
Lowering time		2.1 sec.
Bucket dumping time		1.2 sec.
Bucket roll-back time		1.6 sec.

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3. LUBRICANTS

Place	Capacity	Lubricants, type of grease
	L4600	
	4WD HST	
Transmission case	40.0 L 10.6 U.S.gals 8.80 Imp.gals	KUBOTA UDT or SUPER UDT fluid*
Grease fitting	Until grease overflows.	Moly Ep type grease**

■ **NOTE**

- ***KUBOTA original transmission hydraulic fluid.**
- **** "Extreme pressure" and containing Molybdenum disulfide is recommended. This grease may specify "Moly Ep" on its label.**

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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
Control valve cover mounting bolt	9.81 to 11.2	1.00 to 1.14	7.24 to 8.31
Adapter and elbow	48 to 54	4.9 to 5.5	35 to 40
Hydraulic coupler	40 to 59	4.0 to 6.0	29 to 44
Control valve mounting bolt	25 to 27	2.5 to 2.7	18 to 20
Front guard mounting bolt	124 to 147	12.6 to 15.0	91.2 to 108
Main frame mounting bolt and nut	226	23	166
Sub frame mounting bolt and nut	226	23	166

Item	N·m	kgf·m	lbf·ft
Boom cylinder head	370 to 390	37.8 to 39.7	273 to 287
Bucket cylinder head	370 to 390	37.8 to 39.7	273 to 287
Boom cylinder piston mounting nut	165 to 185	16.9 to 18.8	122 to 136
Bucket cylinder piston mounting nut	450 to 500	45.9 to 50.9	332 to 368

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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, 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	G-8
	Check the hydraulic hoses	G-8
Every 10 hours	Grease all grease fitting	G-8
	Lubricate joints of control lever linkage	G-8
Every 50 hours	Check main frame bolt torque	G-9

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