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MANUAL PREVIEW

Kubota

Operator's Manual

LA301 & LA351

Front Loader

Operator's Manual

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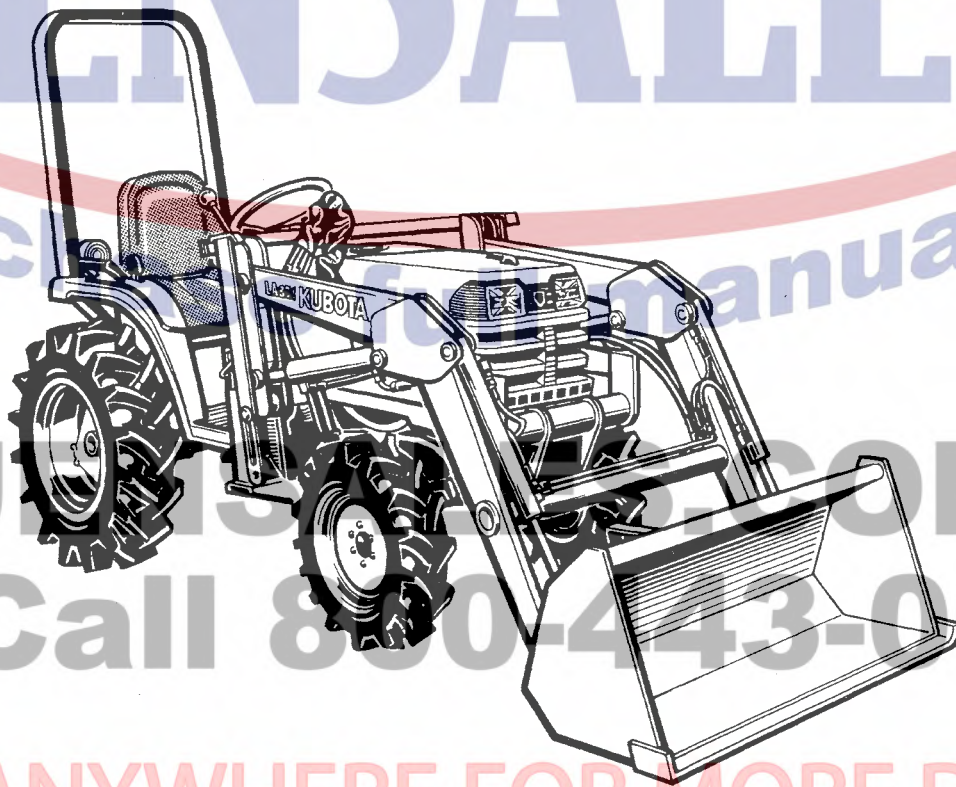
KU-O-LA301+

OPERATOR'S MANUAL

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KUBOTA FRONT LOADER

MODEL LA301
LA351



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Kubota

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2. SPECIFICATIONS

2.1 SUITABLE TRACTOR

B1700 All Models	: LA301
B2100 All Models	: LA301
B2400 GEAR MODELS (N/A IN USA)	: LA301
B2400 HST Models	: LA351

2.2 LOADER SPECIFICATIONS

Item		LA301	LA351
ASAE Rated Lift Capacity		660 lbs. (300 kg)	770 lbs. (350 kg)
ASAE Rated Breakout Force		1150 lbs. (520 kg)	1335 lbs. (605 kg)
Boom Cylinder	Bore	1.50 in. (38 mm)	1.75 in. (44.5 mm)
	Stroke	12.10 in. (307 mm)	11.40 in. (289 mm)
Bucket Cylinder	Bore	1.50 in. (38 mm)	1.75 in. (44.5 mm)
	Stroke	13.00 in. (330 mm)	
Control Valve		One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit	
Net Weight (Approx.)		475 lbs. (216 kg)	500 lbs. (226 kg)

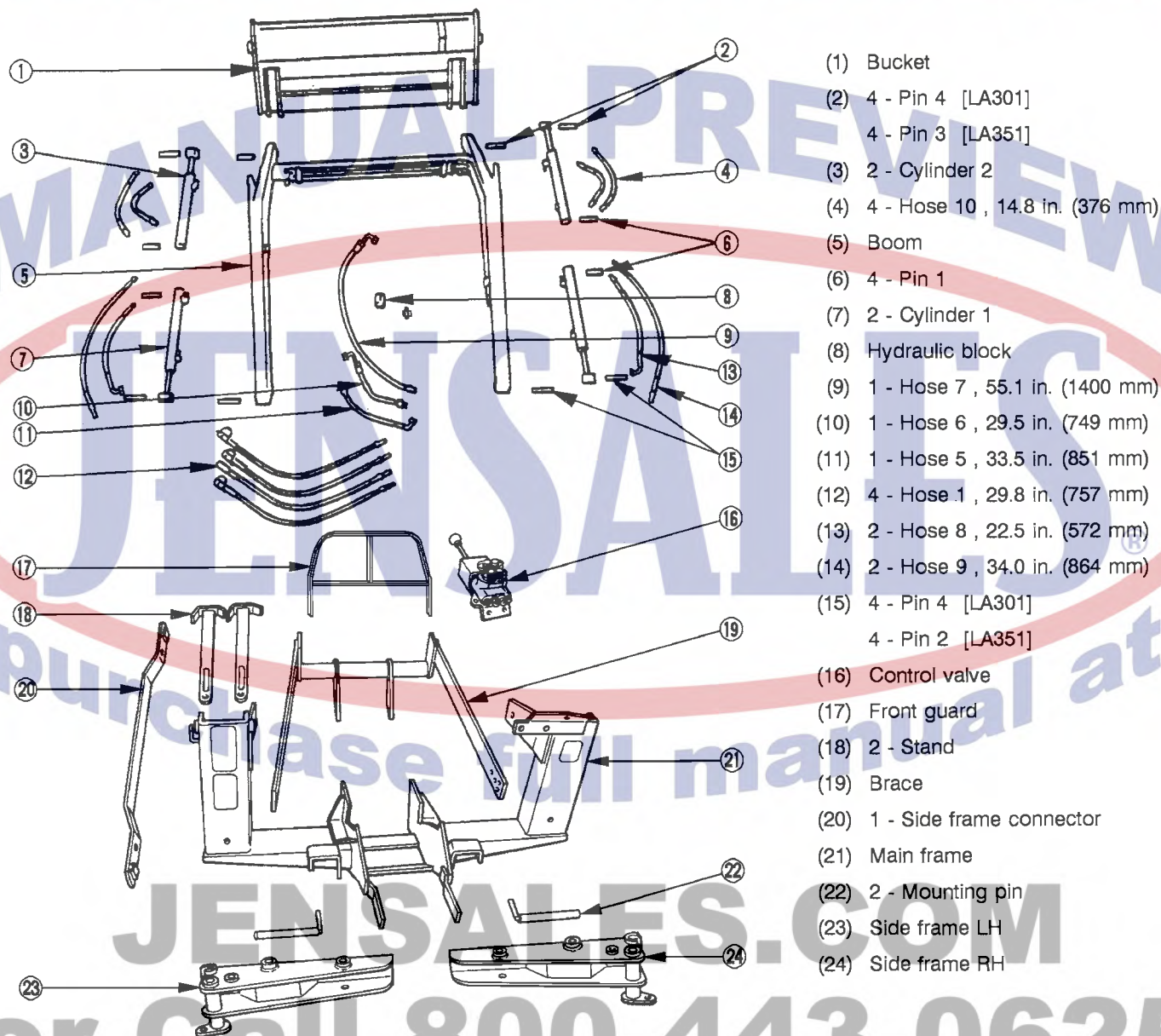
2.3 BUCKET SPECIFICATIONS

Item		LA301	LA351
Width		48.0 in. (1220 mm)	50.0 in. (1270 mm)
Length		18.3 in. (465 mm)	19.3 in. (490 mm)
Height		19.2 in. (490 mm)	
Capacity	Struck	5.19 cu.ft. (0.15 m ³)	5.50 cu.ft. (0.16 m ³)
	Heaped	6.20 cu.ft. (0.17 m ³)	6.50 cu.ft. (0.18 m ³)
Weight		120 lbs. (54 kg)	137 lbs. (62 kg)

3. SETTING-UP INSTRUCTIONS

3.1 PRE-ASSEMBLY

Remove all loader components. Referring to the illustration, insure that all components have been included.



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3.2 TRACTOR PREPARATION

- (1) Locate the tractor on a firm level surface. Stop engine.

3.3 INSTALLATION INSTRUCTIONS

[IMPORTANT NOTICE]

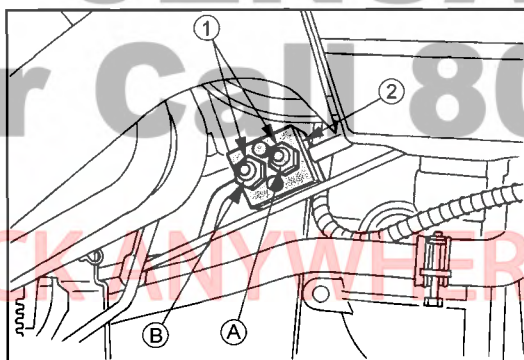
- This loader has both standard and metric fasteners. Insure that the proper fasteners are placed in the correct locations. Metric fasteners that are marked 8.8 bolt to the tractor. The bolts that go only in the loader are standard.
- Do **not** tighten any bolts firmly until most components are attached onto the tractor.
- Before finally tightening all mounting hardware, start the engine and apply down pressure to the bucket until the loader raises the front wheels slightly. Torque all bolts and nuts in this position.
- To avoid damage to hoses, adjust all connections to route hoses away from sharp edges.

3.3.1 Hydraulic Lines

- (1) Remove the cover of the hydraulic block on the tractor.
- (2) Install the loader hydraulic block to the tractor hydraulic block.
Tightening torque : 17 ft-lbs, 23.1 N-m, 2.35 kgf-m

[NOTE]

- Reuse the bolts fastening the hydraulic block cover.

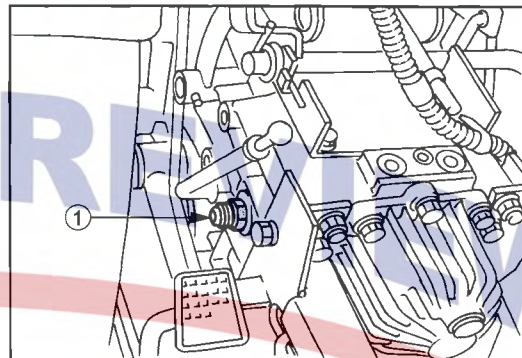


- (1) Adapters (2) Hydraulic block
(A) Pump port (B) Power beyond port

- (3) Remove the plug from the transmission case. Install the return fitting so that thread is facing to the direction as shown.

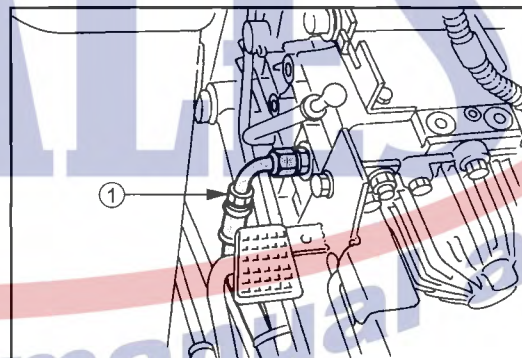
[NOTE]

- Use seal tape on the thread of the return fitting.



(1) Return fitting

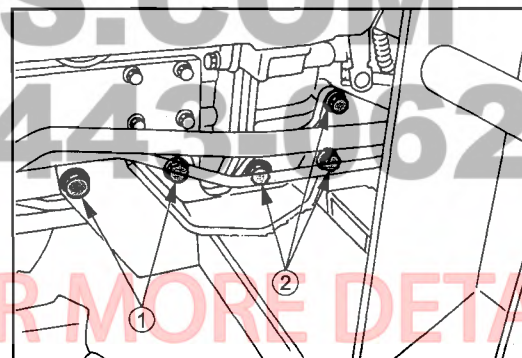
- (4) Connect the Hose 7 (55.1 in. , 1400 mm) to the return fitting.



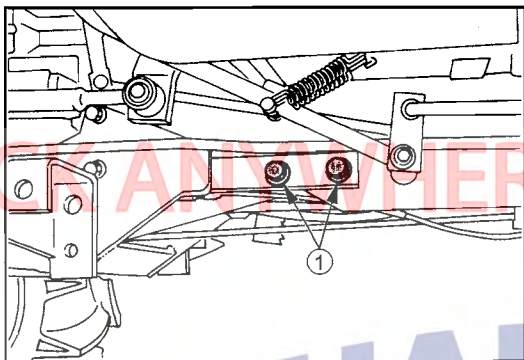
(1) Hose 7

3.3.2 Main Frame and Brace

- (1) Attach the main frame to the tractor as shown.

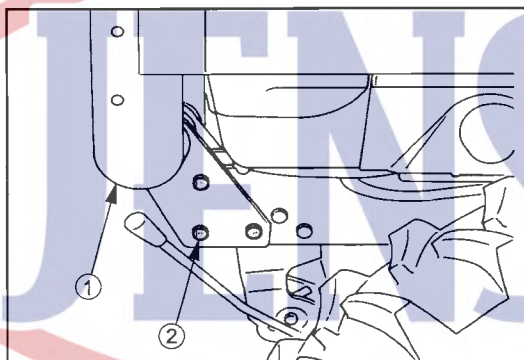


- (1) 4 - M14x35 Bolts
4 - 9/16 Spring lock washers
(2) 6 - M12x35 Bolts (Pitch 1.75)
6 - M12 Spring lock washers



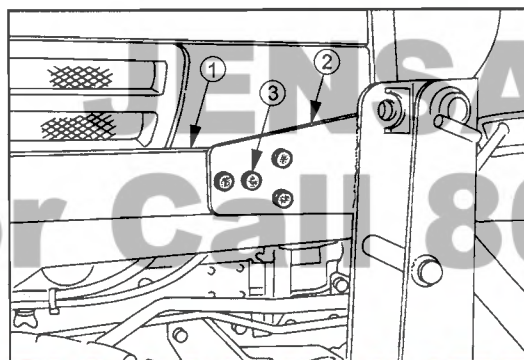
- (1) 4 - M12x30 Bolts (Pitch 1.25)
 4 - M12 Spring lock washers
 4 - 1/2 Plain washers

- (2) Attach the brace to the tractor front frame as shown. (Do not tighten bolts until all other related components have been installed.)



- (1) Brace
 (2) 6 - 9/16-18UNFx1 3/4 Bolts
 6 - 9/16-18UNF Nuts
 6 - 9/16 Spring lock washers

- (3) Attach the rear ends of brace to the main frame as shown.



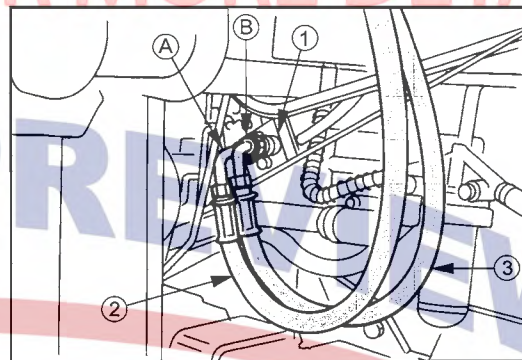
- (1) Brace (2) Main frame
 (3) 8 - 9/16-18UNFx1 1/2 Bolts
 8 - 9/16-18UNF Nuts
 8 - 9/16 Spring lock washers

[NOTE]

- Install all the bolts on each brace from the outside.

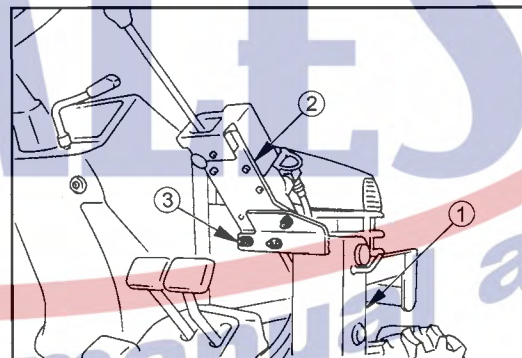
3.3.3 Hydraulic Valve and Hoses

- (1) Connect Hose 5 (33.5 in. , 851 mm) to the power beyond port of the hydraulic block.
- (2) Connect Hose 6 (29.5 in. , 749 mm) to the pump port of the hydraulic block.



- (1) Hydraulic block (2) Hose 5
 (3) Hose 6 (A) Power beyond port (B) Pump port

- (3) Attach the valve stay to the main frame as shown.



- (1) Main frame (2) Valve stay
 (3) 3 - 1/2-13UNCx1 1/4 Bolts
 3 - 1/2-13UNC Nuts
 3 - 1/2 Spring lock washers