

WSM

WORKSHOP MANUAL
FRONT LOADER

LA344AU

Kubota

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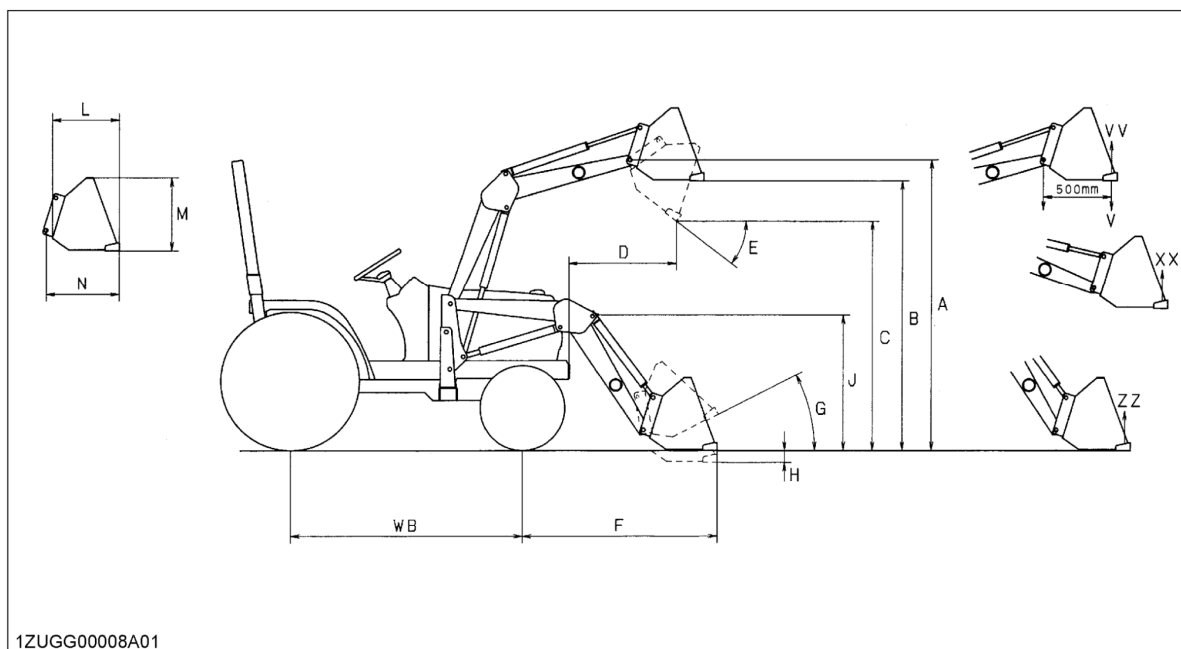
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1. INFORMATION

4. Operational specifications of loader

Loader model		LA344AU
Tractor model		BX1880-AU, BX2380-AU, BX2680-AU
V	Lift capacity (500 mm forward, max. height)	180 kg (509 lbs)
Y	Breakout force (Bucket pivot pin)	6258 N (1407 lbs)
VV	Bucket roll-back force at max. height	4731 N (1064 lbs)
XX	Bucket roll-back force at 1500 mm height	5557 N (1249 lbs)
ZZ	Bucket roll-back force at ground level	5456 N (1227 lbs)
Raising time		3.3 s
Lowering time		2.5 s
Bucket dumping time		2.7 s
Bucket rollback time		2.3 s



5. Hydraulic fittings

5.1 Adapters, elbows and others

Item	Thread size	Tightening torque		
		N · m	kgf · m	lbf · ft
Adjustable elbow, adapter (O-ring port) (UNF)	9/16	37 to 44	3.8 to 4.4	28 to 32
	3/4	48 to 54	4.9 to 5.5	36 to 39
	7/8	77 to 85	7.9 to 8.6	57 to 62
Hose fitting, flare nut (UNF)	9/16	25 to 28	2.6 to 2.8	19 to 20
	3/4	36 to 40	3.7 to 4.0	27 to 29
	7/8	43 to 50	4.4 to 5.0	32 to 36
Adapter (NPT)	1/4	30 to 50	3.1 to 5.0	23 to 36
	3/8	39 to 60	4.0 to 6.1	29 to 44
	1/2	49 to 58	5.0 to 5.9	37 to 42
Grease fitting	1/8-27	4.1 to 6.7	0.42 to 0.69	3.0 to 5.0
	1/4-18	4.1 to 6.7	0.42 to 0.69	3.0 to 5.0

NOTE

- When connecting a hose with flare nut, after tightening the nut with specified torque, return it at approximately 45 degrees (0.79 rad) and re-tighten it to specified torque.

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(Bucket roll-back condition)

Hydraulic oil flows from A2 port (2) to a2 port (3). At this time, hydraulic oil flows from b2 port (1) to B2 port (4).

(Bucket dump condition)

Hydraulic oil flows from B2 port (4) to b2 port (1). At this time, hydraulic oil flows from a2 port (3) to A2 port (2).

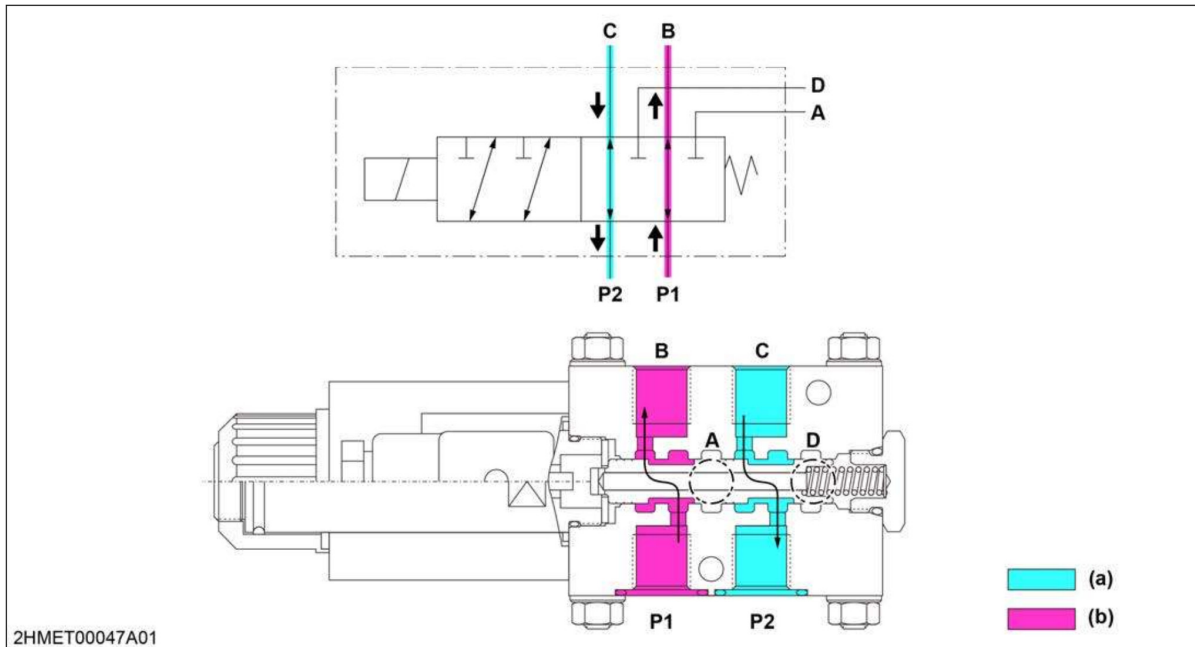
The spool goes back to this neutral position automatically by the spring (10).

9.2 Function of 3rd function valve

9.2.1 Activation switch in off position

■ NOTE

When the loader control lever is set to the roll-back position, the hydraulic oil enters from P2 port and exits at C port. This extends the bucket cylinder. Return oil from the bucket cylinder enters B port and travels throughout the valve to go to the transmission case through P1 port.



P1: P1 port
P2: P2 port

A: A port
B: B port

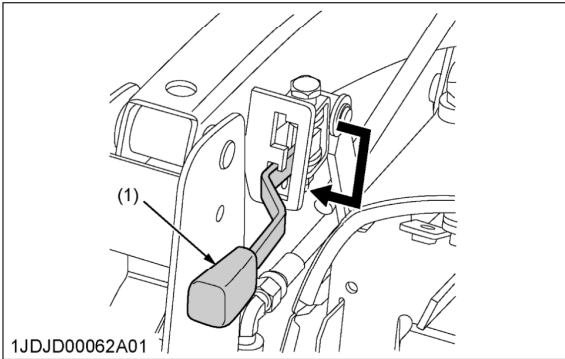
C: C port
D: D port

(a) Low pressure
(b) High pressure

1. When the activation switch in off position, the spool of 3rd function valve does not move. The oil passage from P1 port to A port and the oil passage from P2 port to D port are opened.
2. When the loader control lever is set to the dump position, the hydraulic oil enters from P1 port and exits at B port. This extends the bucket cylinder.
3. Return oil from the bucket cylinder enters C port and travels throughout the valve to go to the transmission case through P2 port.

3. FRONT LOADER

20. Set the stand lever to the low position.

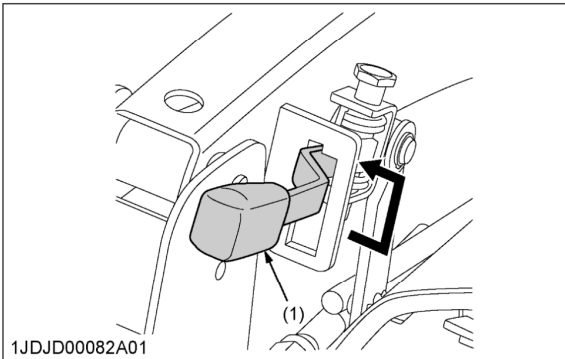


(1) Stand lever

- 21. Fasten the seat belt.
- 22. Get the engine started, roll back the bucket and move up the boom, both to maximum.
- 23. Stop the engine.
- 24. Move the hydraulic control lever to the dump position until the bucket comes to a complete stop.
- 25. Make sure that the stands are folded as specified.
- 26. Fasten the seat belt.
- 27. Get the engine started and raise the engine speed up to the following speed.

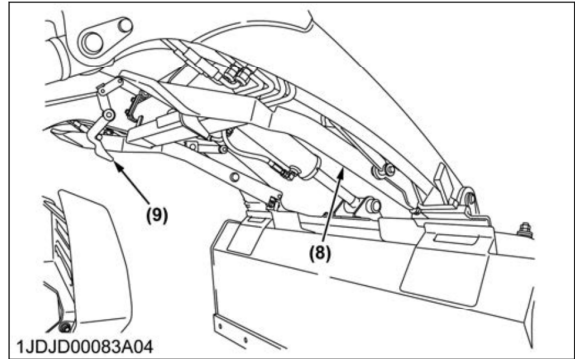
Engine speed	Factory specification	1800 rpm
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- 28. Slowly dump the bucket until the stand touches the boom.
- 29. Slide the stand lever upward direction, and then slide the stand lever left side completely as shown in the following figure.



(1) Stand lever

30. Hold the stand by stand hook.



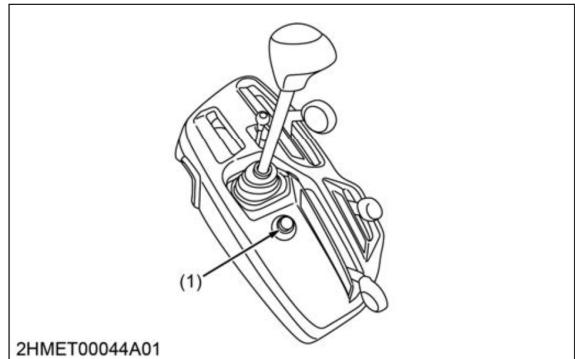
(8) Stand

(9) Stand hook

3.2 Front hydraulic valve main switch and relay

3.2.1 Checking front hydraulic valve main switch continuity

- 1. Disconnect the front hydraulic valve main switch connector.

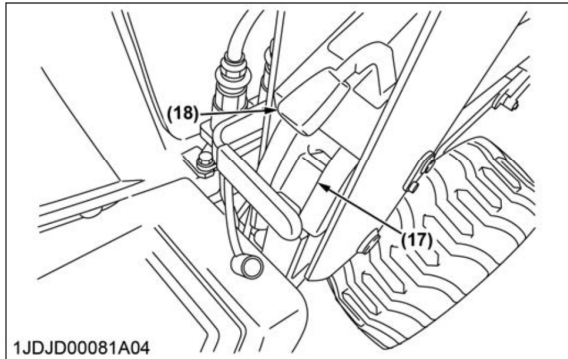


(1) Front hydraulic valve main switch

- 2. Measure the resistance with an ohmmeter between terminal RB and terminal B.

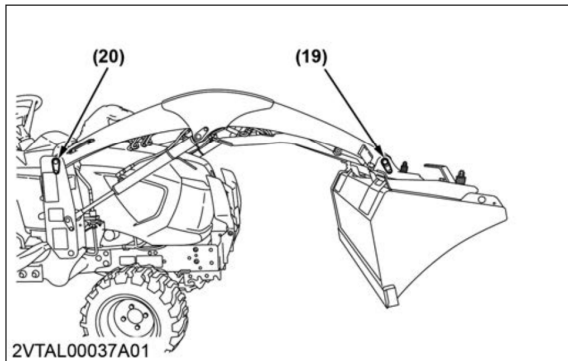
3. FRONT LOADER

13. Make sure that the right and left mounting levers (18) cannot be activated.
Do not use the machine if the cutting edge of the bucket is off the ground but the mount hooks (17) are unlocked.



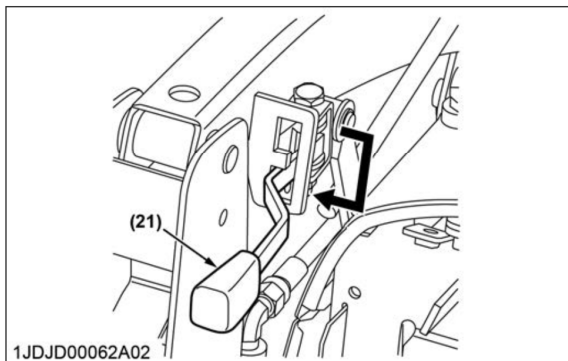
(17) Mount hook (18) Mounting lever

14. Raise the boom until the bucket fulcrum pin (19) comes up to the height of the boom fulcrum pin (20).



(19) Bucket fulcrum pin (20) Boom fulcrum pin

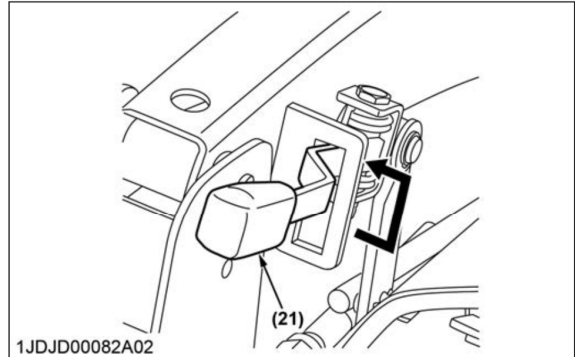
15. Make sure that the stand lever (21) is at its low position as shown in the following figure.



(21) Stand lever

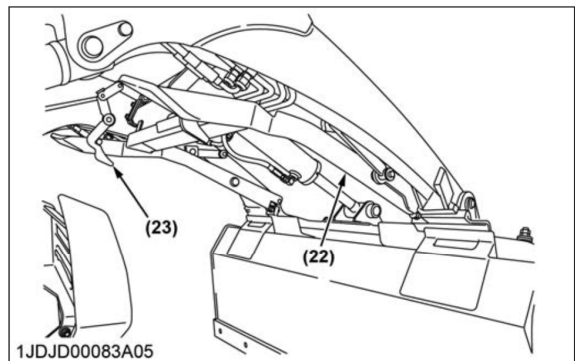
16. Slowly dump the bucket until the stand touches the boom.

17. Slide the stand lever (21) upward direction, and then slide the stand lever left side completely as shown in the following figure.



(21) Stand lever

18. Hold the stand (22) by the stand hook (23).



(22) Stand (23) Stand hook

4.2 Bucket, boom and hydraulic cylinders

4.2.1 Attaching attachments

! DANGER

To avoid personal injury or death

- Use of a non-Kubota attachment that does not comply with ISO24410 or the improper positioning of handle(s) or non-protrusion of pin(s) may result in detachment of the attachment or deformation, causing loss of performance, personal injury, or death.

■ NOTE

- Locate the attachments on a flat, firm surface when attaching and removing them from the quick attach coupler.

The quick attach coupler is designed to be used with Kubota attachments. To use non-Kubota attachments, it must comply with ISO 24410, first edition 2005-04-15.

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