SAFE OPERATION

Most loader equipment accidents can be avoided by following simple safety precautions.
These safety precautions, if followed at all times, will help you operate your loader safely.

1. Read and understand both the tractor and the loader operator's manuals before using the loader.
   Lack of knowledge can lead to accidents.
2. For your safety, a ROPS with a seat belt is strongly recommended by KUBOTA in almost all applications.
   If your tractor has a foldable ROPS, fold it down only when absolutely necessary and raise it up and lock it again as soon as possible. Do not wear the seat belt when a foldable ROPS is down or a fixed ROPS is removed. If you have any questions, consult your local KUBOTA Dealer.
   Always use the seat belt when the tractor is equipped with a ROPS. Never use the seat belt when the tractor is not equipped with a ROPS.
3. Do not lift or carry any person on the loader, in the bucket, or other attachment.
4. Never allow anyone to get under the loader bucket or reach through the boom when the bucket is raised.
5. Do not walk or work under a raised loader bucket or attachment unless it is securely blocked and held in position.
6. Do not use the loader as a jack to support the tractor for servicing or maintenance.
   Securely support the tractor or any machine elements with stands or suitable blocking before working underneath.
   For your safety, do not work under any hydraulically supported devices. They can settle or suddenly leak down or be accidentally lowered.
7. When operating the tractor on a slope, always operate up and down, never across the slope.
8. Operate the loader from the tractor seat only.
9. For tractor stability and operator safety, rear ballast must be added to the 3-point hitch and to the rear wheels.
10. To increase stability adjust the rear wheels to the widest setting that is suitable for your application.
11. Move and turn the tractor at low speeds.
12. Carry loader boom at a low position during transport. (You should be able to see over the bucket.)
13. Exercise extra caution when operating the loader with a raised bucket or attachment.
14. Avoid loose fill, rocks and holes. They can be dangerous for loader operation or movement.
15. Be extra careful when working on inclines.
16. Avoid overhead wires and obstacles when the loader is raised. Contacting electric lines can cause electrocution.
17. Allow for the loader length when making turns.
18. Gradually stop the loader boom when lowering or lifting.
19. Use caution when handling loose or shiftable loads.
20. When loader work is complete, lower the loader boom to the ground, stop the engine, remove the key and lock the brakes before leaving the tractor seat.
21. Do not remove the loader from the tractor without an approved bucket attached.
22. Make sure the detached loader is on stands and on a hard, level surface.
23. Operate the loader only when properly seated at the controls. Do not operate from the ground.
24. Visually check for hydraulic leaks and broken, missing, or malfunctioning parts.
    Make necessary repairs before operating.
25. Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Do not use hands to search for suspected leaks. If injured by escaping fluid, obtain medical treatment immediately.
26. Before disconnecting hydraulic lines, relieve all hydraulic pressure.
27. Do not tamper with the relief valve setting. The relief valve is pre-set at the factory. Changing the setting can cause overloading of the loader and tractor which may result in serious personal injury.
28. Using loaders for handling large heavy objects, such as large round or rectangular bales, logs and oil drums is not recommended without proper handling attachments.
29. Handling large heavy objects can be extremely dangerous due to :
    - Danger of rolling the tractor over.
    - Danger of upending the tractor.
    - Danger of the object rolling or sliding down the loader boom onto the operator.
30. If you must perform this sort of work (item 29), protect yourself by :
    - Never lift the load higher than necessary to clear the ground.
    - Add rear ballast to the tractor to compensate for the load.
    - Never lift large objects with equipment that may permit them to roll back onto the operator.
    - Move slowly and carefully, avoiding rough terrain.
31. It is the owner's responsibility to ensure that anyone who will operate the loader read this manual first and become familiar with the safe operation of the loader.
32. Always wear safety goggles when servicing or repairing the machine.
33. When servicing or replacing pins in cylinder ends, bucket, etc., always use a brass drift and hammer. Failure to do so could result in injury from flying metal fragments.

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SPECIFICATIONS

SUITABLE TRACTOR

LA514:L3240,3540
LA724:L3240,3540,3940
LA854:L4240,4740,5040,5240,5740

LOADER SPECIFICATIONS

LOADER MODEL		LA514	LA724	LA854
TRACTOR MODEL		L3540	L3940	L5740
WHEEL BASE(WB)	mm (in)	1805 (71.1)	1895 (74.6)	1915 (75.4)
FRONT TIRES		7-16	8.3-16	9.5-16
REAR TIRES		12.4-24	14.9-24	14.9-26
BOOM CYLINDER	BORE mm (in)	45 (1.77)	50 (1.97)	60 (2.36)
	STROKE mm (in)	476 (18.7)	502 (19.8)	496 (19.5)
BUCKET CYLINDER	BORE mm (in)	45 (1.77)	50 (1.97)	55 (2.17)
	STROKE mm (in)	476 (18.7)	465 (18.3)	469 (18.5)
CONTROL VALVE (STANDARD PART OF TRACTOR)	4 Position bucket control valve type	One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit		
RATED FLOW	L/m (GPM)	31.5 (8.3)	37 (9.8)	
MAXIMUM PRESSURE	MPa (kg/cm², psi)	17.7 (180,2560)	18.1 (185,2630)	
NET WEIGHT(APPROXIMATE)	kg (lbs.)	405 (893)	530 (1168)	590 (1300)

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OPERATING THE LOADER

The loader should be operated with the tractor engine speed depending on the application and the operator's level of experience. Excessive speeds are dangerous, and may cause bucket spillage and unnecessary strain on the tractor and loader.

When operating in temperatures below -1 ℃ (30 ℉), run the tractor engine below 1200 rpm until the oil temperature exceeds -1 ℃ (30 ℉).

The following text and illustrations offer suggested loader and tractor operating techniques.

CAUTION

To reduce the possibility of roll over:

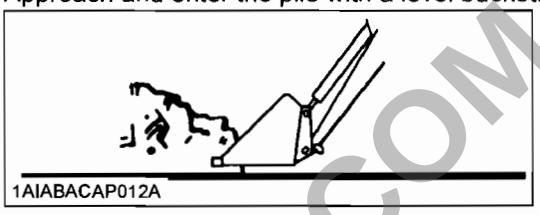
- **It is not recommended that the loader be attached when operating another implement on a hillside.**

IMPORTANT :

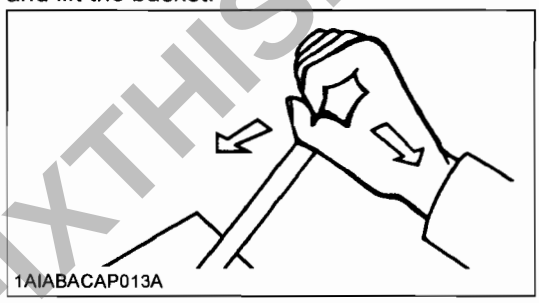
- When operating the loader in rough terrain, remove the mower to avoid damage to the mower.

FILLING THE BUCKET

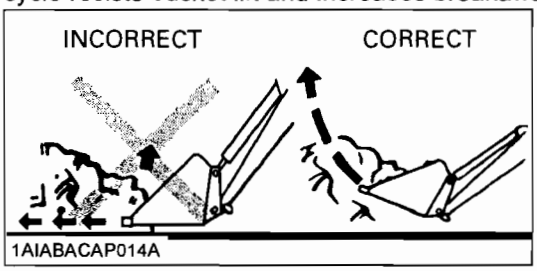
Approach and enter the pile with a level bucket.



Ease control lever toward you and then back to rollback and lift the bucket.



The rollback and lifting of the bucket will increase efficiency because a level bucket throughout the lifting cycle resists bucket lift and increases breakaway effort.



NOTE :

- Do not be concerned if the bucket is not completely filled during each pass. Maximum productivity is determined by the amount of material loaded in a given period of time. Time is lost if two or more attempts are made to fill the bucket on each pass.

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TIRE INFLATION

Insure that the tractor tires are properly inflated.
Refer to the tractor operator's manual for optional tires.

■Inflation pressure

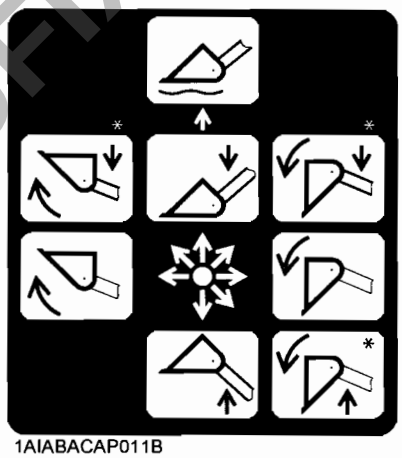
	Tire sizes	Inflation Pressure
Rear	12.4-24, 4PR	140 kPa (1.4 kgf/cm², 20 psi)
	13.6-28, 4PR	150 kPa (1.5 kgf/cm², 22 psi)
	14.9-24, 4PR	140 kPa (1.4 kgf/cm², 20 psi)
	14.9-26, 4PR	140 kPa (1.4 kgf/cm², 20 psi)
	41/18LL x 16.1, 6PR	70 kPa (0.7 kgf/cm², 10 psi)
	355/80-D20, 4PR	100 kPa (1.0 kgf/cm², 14 psi)
	44 x 18-20, 6PR	170 kPa (1.7 kgf/cm², 24 psi)
	420/70-24, 6PR	140 kPa (1.4 kgf/cm², 20 psi)
	17.5L-24, 6PR	140 kPa (1.4 kgf/cm², 20 psi)
Front	6.00-16, 4PR	220 kPa (2.2 kgf/cm², 32 psi)
	7.2-16, 4PR	150 kPa (1.5 kgf/cm², 22 psi)
	8.3-16, 4PR	150 kPa (1.5 kgf/cm², 22 psi)
	9.5-16, 4PR	205 kPa (2.1 kgf/cm², 30 psi)
	27 x 8.50-15, 4PR	85 kPa (8.5 kgf/cm², 12 psi)
	27 x 10.50-15, 4PR	85 kPa (8.5 kgf/cm², 12 psi)
	29 x 12.50-15, 4PR	140 kPa (1.4 kgf/cm², 20 psi)
	10-16.5, 6PR	140 kPa (1.4 kgf/cm², 20 psi)
	7.5L-15, 6PR	220 kPa (2.2 kgf/cm², 32 psi)

TEST OPERATION

⚠ CAUTION

To avoid serious personal injury:

- **Keep engine speed at low idle during the test operation.**
- **Escaping hydraulic fluid under pressure can have sufficient force to penetrate skin, causing serious personal injury.**
  Before disconnecting lines, be sure to relieve all pressure.
  Before applying pressure to the system, be sure all connections are tight and that lines, tubes and hoses are not damaged.
  Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands to search for suspected leaks.
  If injured by escaping fluid, see a doctor at once. Serious infection or allergic reaction will develop if proper medical treatment is not administered immediately.



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NOTE :

- When the lever is at each corner position marked by asterisk (*), boom and bucket cylinders work at the same time. However, the blank position (Raise & Roll back) is not recommended for scooping because of insufficient lift force.

To begin a test operation, slightly move the control lever from the "N" position. Slowly raise the loader boom just enough for the bucket to clear the ground when fully dumped. Slowly work through the dump and roll back cycles.

IMPORTANT :

- If the boom or bucket does not work in the directions indicated on the label, lower the bucket to the ground, stop the engine, and relieve all hydraulic pressure. Recheck and correct all hydraulic connections.

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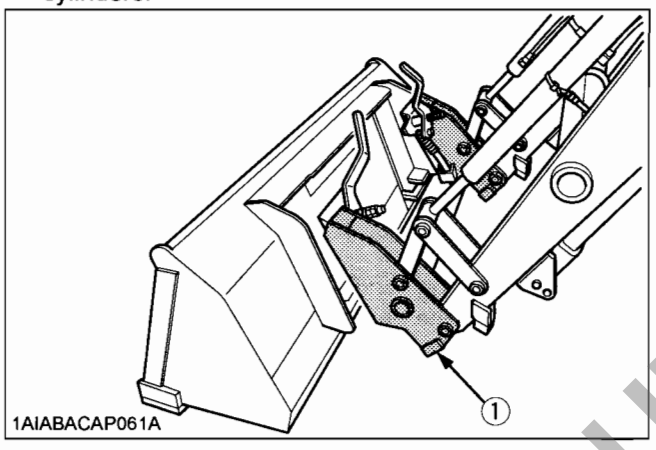
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ATTACHING IMPLEMENTS

NOTE :

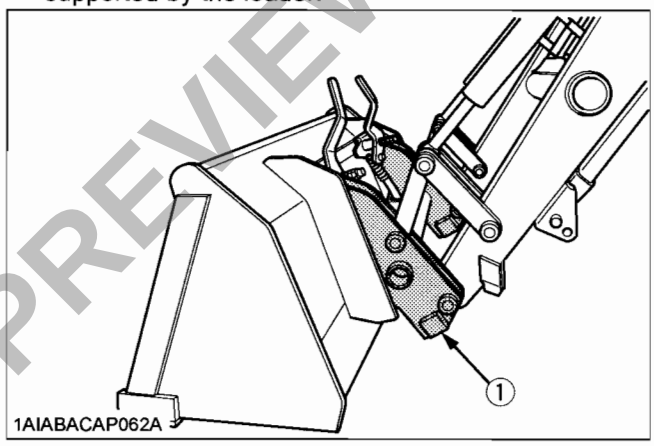
- Implements should be located on a flat, firm surface when attaching and detaching them from the Quick Hitch.

1. To mount an implement, pull the handles of the quick hitch latching pins to the unlatched position. The quick hitch handles must be all the way up to ensure that the latching pins are fully retracted.
2. Position the tractor squarely in front of the implement and tilt the quick hitch forward with the bucket cylinders.



(1) Quick hitch

3. Ease the quick hitch mounting plate into the saddle of the implement.
4. Without raising the implement from the ground, roll the quick hitch back using the bucket cylinders and raise the boom slightly. The back of the implement should rest flat against the front of the quick hitch mounting plate and the weight of the implement should be supported by the loader.



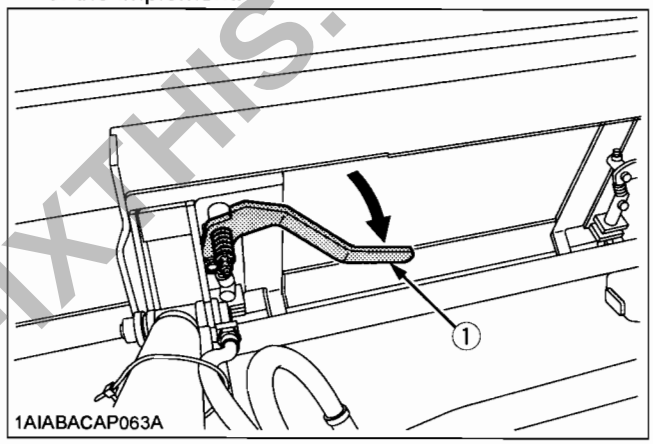
(1) Quick hitch

CAUTION

TO AVOID PERSONAL INJURY OR MACHINE DAMAGE:

- **DO NOT RAISE IMPLEMENT COMPLETELY OFF THE GROUND AT THIS POINT. THE IMPLEMENT COULD SWING OFF THE QUICK HITCH.**

5. When the implement is properly seated in the saddle and against the front of the quick hitch mounting plate, turn off the engine and set the parking brake. Push the quick hitch handles to the fully latched position. Verify both latching pins are completely engaged in the base of the implement.



(1) Quick hitch handle

6. You are now ready to use the attached implement. All compatible implements attach and detach using the same method.

CAUTION

TO AVOID PERSONAL INJURY OR MACHINE DAMAGE:

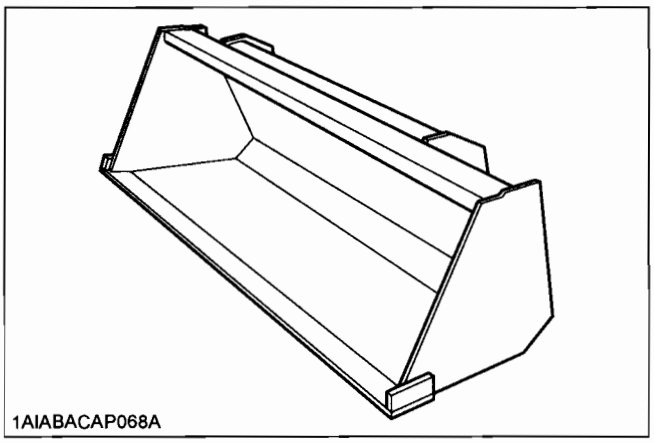
- **NEVER OPERATE OR TRANSPORT IMPLEMENTS WHICH ARE NOT ATTACHED COMPLETELY.**
- **ALWAYS REPLACE DAMAGED HARDWARE IMMEDIATELY.**

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ATTACHMENTS

■Quick bucket



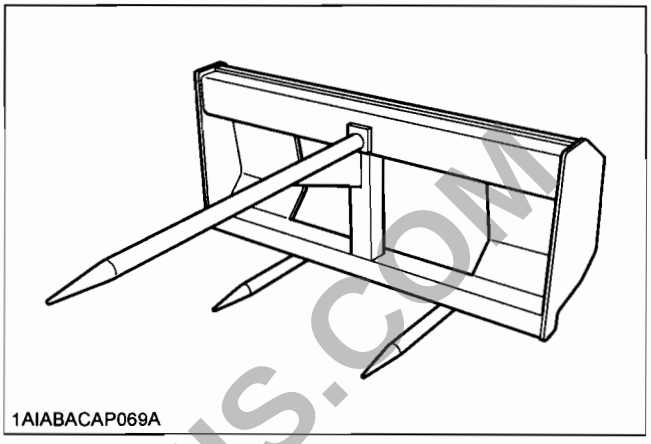
-SQUARE 66"
WIDTH
1675mm (66in.)
STRUCK CAPACITY
0.23 cu.m. (8.1cu.ft.)
APPLICABLE LOADER MODEL
LA514,LA724,LA854

-SQUARE 72"
WIDTH
1830mm (72in.)
STRUCK CAPACITY
0.31cu.m. (10.9cu.ft.)
APPLICABLE LOADER MODEL
LA724,LA854

-ROUND 72"HD
WIDTH
1830mm (72in.)
0.31cu.m. (10.9cu.ft.)
STRUCK CAPACITY
APPLICABLE LOADER MODEL
LA724,LA854

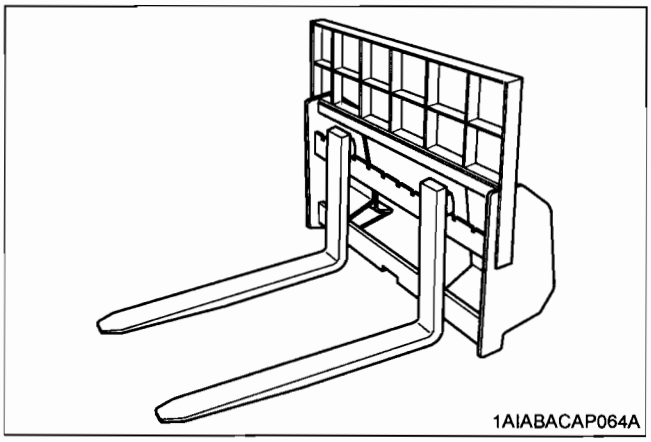
-SQUARE 72" LIGHT MATERIAL
WIDTH
1830mm (72in.)
STRUCK CAPACITY
0.36cu.m. (12.7cu.ft)
APPLICABLE LOADER MODEL
LA514,LA724,LA854

■Bale spear



OVERALL HEIGHT
524mm (20.63in.)
OVERALL WIDTH
1149mm (45.24in.)
OVERALL LENGTH (INCLUDING MAIN SPEAR)
1376mm (54.17in.)
USEABLE LENGTH OF MAIN SPEAR
1008mm (39.69in.)
USEABLE LENGTH OF SPEAR 2
356mm (14.02in.)
MAXIMUM DIAMETER OF MAIN SPEAR
51mm (2.00in.)
DIAMETER OF SPEAR 2
32mm (1 1/4in.)
WEIGHT OF IMPLEMENT
74kg (163lbs)

■Pallet fork



LOADER MODEL	RATED CAPACITY
LA513, LA514, TL500	800 LBS.
LA723, LA724	1000 LBS.
LA853, LA854	1300 LBS.

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MAINTENANCE

CAUTION

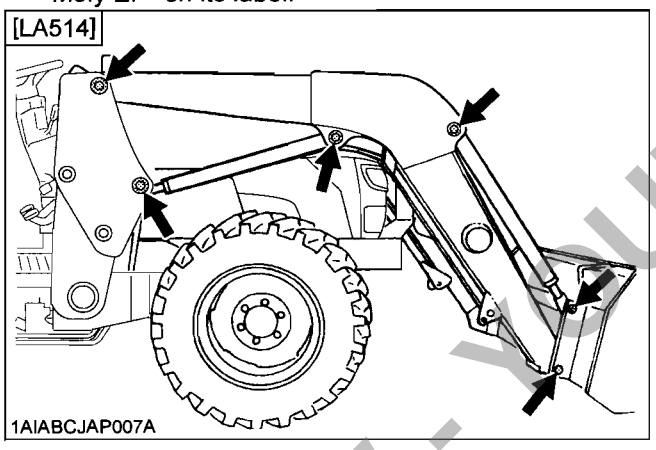
To avoid personal injury:

- **Be sure to check and service the tractor on a flat place with the bucket on the ground, engine shut off, the key removed and the parking brake on.**

LUBRICATION

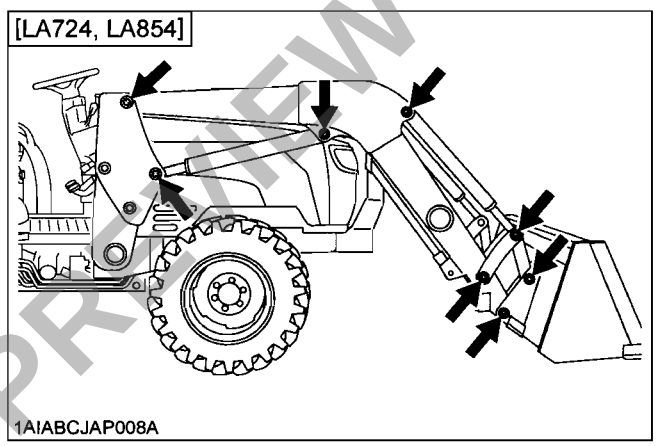
1. Lubricate all grease fittings every 10 hours of operation. Also, lubricate joints of control lever linkage every 10 hours. High quality grease designating "extreme pressure" and containing Molybdenum disulfide is recommended. This grease may specify "Moly EP" on its label.

[LA514]



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[LA724, LA854]



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2. Daily before operation, check the tractor hydraulic fluid level. If low, add as described in the tractor's operator's manual. Also change the filter element and the hydraulic fluid as recommended in the tractor's operator's manual.

RE-TIGHTENING OF HARDWARE

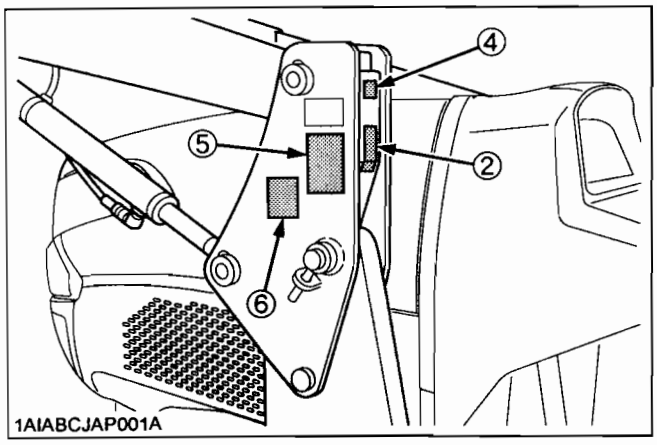
After 20 to 30 hours of initial loader operation, re-tighten all mounting bolts and nuts to the required torque value as follows.

Sequence	Location	Bolt/Nut	Required Torque N-m (kgf-m, ft-lbs)
1	Main frames (Front axle frame)	M16 bolts	226 (23, 166)
2	Main frames (Rear brackets)	M16 nuts	226 (23, 166)

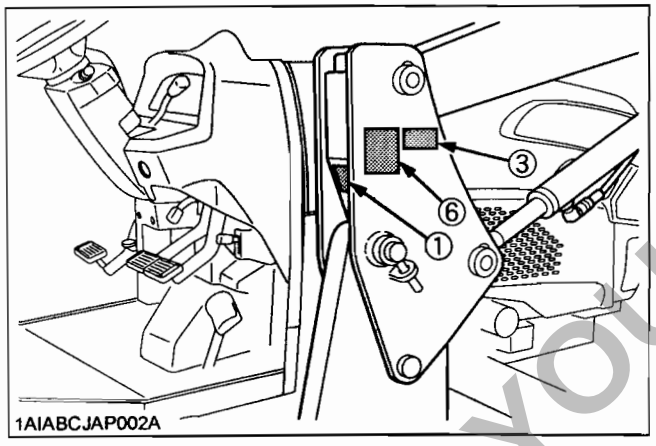
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DANGER,WARNING AND CAUTION LABELS



1AIABCJAP001A



1AIABCJAP002A

(1) Part No. 7J246-5643-1



1AIABAHAP016A

(2) Part No. 7J246-5641-1



1AIABAHAP017A

(3) Part No. 7J266-5649-2



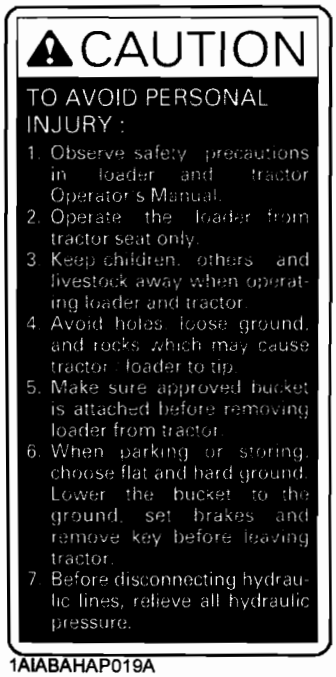
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(4) Part No. 7J246-5642-1



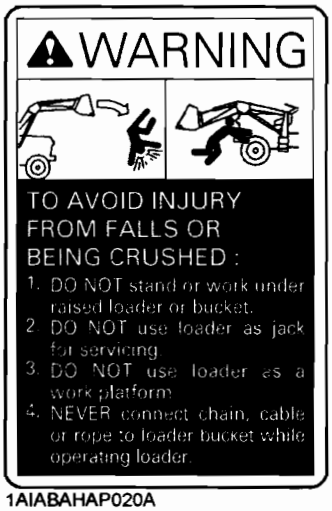
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(5) Part No. 7J246-5645-1



1AIABAHAP019A

(6) Part No. 7J246-5644-2 (Both sides)



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