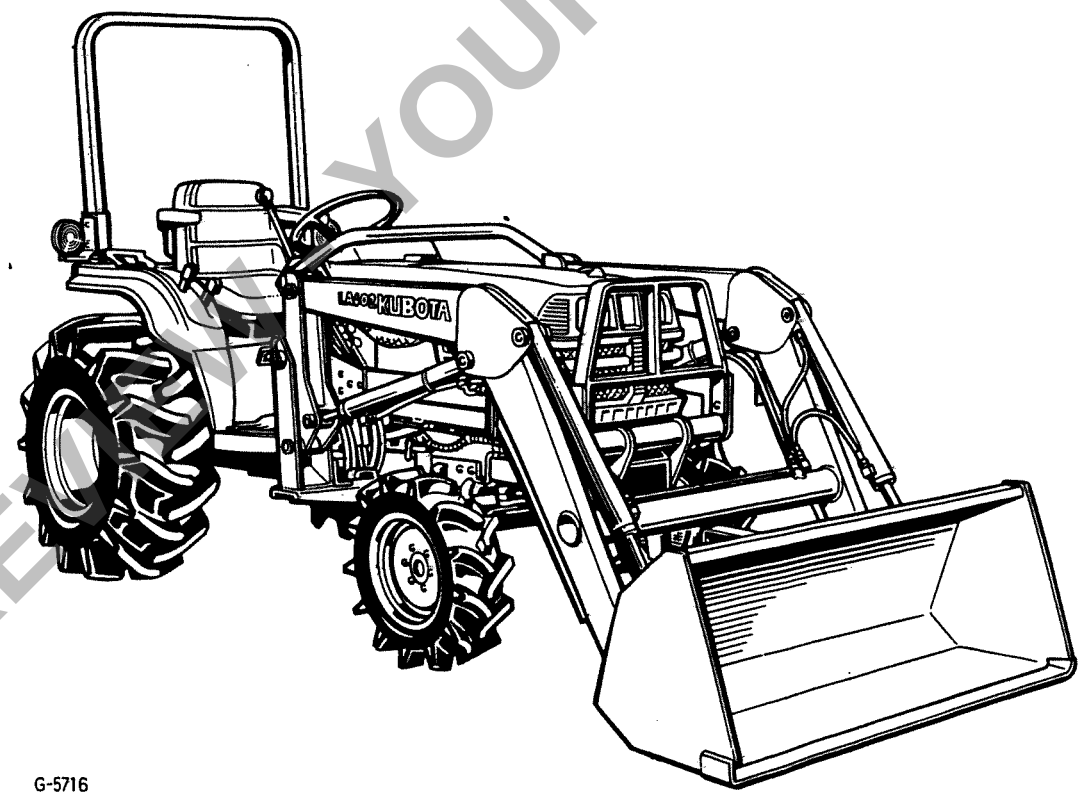
OPERATOR'S MANUAL

KUBOTA

FRONT LOADER

MODEL LA272 · LA302
LA352 ·· LA402



G-5716

READ AND SAVE THIS MANUAL

Kubota

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⚠ 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, ROPS with a seat belt is strongly recommended by KUBOTA in almost all applications. If your tractor has a folding ROPS, fold it down only when absolutely necessary and fold it up and lock it again as soon as possible. Do not wear the seat belt when the folding ROPS is down or the fixed ROPS is removed. If you have any questions, consult your local KUBOTA Dealer.
   Always use 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 anybody on the loader, bucket or 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. When operating on a slope, always operate up and down the slope, never across the slope.
7. Operate the loader from the tractor seat only.
8. For tractor stability and operator's safety, rear ballast must be added to the 3-point hitch and to the rear wheels.
9. To increase stability adjust the rear wheels to the widest setting that is suitable for your application.
10. Move and turn the tractor at low speeds.
11. Carry loader boom at a low position during transport. (You should be able to see over the bucket.)
12. Exercise extra caution when operating the loader with a raised bucket or attachment.
13. Avoid loose fill, rocks and holes. They can be dangerous for loader operation or movement.
14. Be extra careful when working on inclines.
15. Avoid overhead wires and obstacles when loader is raised. Contacting electric lines can cause electrocution.
16. Allow for the loader length when making turns.
17. Gradually stop the loader boom when lowering or lifting.
18. Use caution when handling loose or shiftable loads.
19. When loader work has been completed, lower loader boom to the ground, stop the engine, remove the key and lock the brakes before leaving the tractor seat.
20. Make sure the parked loader is on stands and on a hard, level surface.
21. Operate the loader controls only when properly seated at the controls.
22. Visually check for hydraulic leaks and broken, missing, or malfunctioning parts.
    Make necessary repairs before operation.
23. 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 at once.
24. Before disconnecting hydraulic lines, relieve all hydraulic pressure.
25. 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 a serious personal injury.
26. Using loaders for handling large heavy objects, such as large round or rectangular bales, logs and oil drums is not recommended.
27. 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.
28. If you must perform this sort of work (item 27), protect yourself by :
    - Never lifting the load higher than necessary to clear the ground.
    - Adding rear ballast to the tractor to compensate for the load.
    - Never lifting large object with equipment that may permit it to roll back onto the operator.
    - Moving slowly and carefully, avoiding rough terrain.
29. It is the loader owner's responsibility to be certain anyone operating the loader read this manual first to be aware of the safe way of operating the loader.

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SPECIFICATIONS

SUITABLE TRACTOR

B7400 model : **LA272**
B7500 model : **LA272, LA302**
B2410 model : **LA352**
B2710, B2910 HST models : **LA402**

LOADER SPECIFICATIONS

Loader model			LA272	LA302	LA352	LA402
Tractor model			B7400	B7500	B2410	B2710, B2910
Wheel base (WB)		mm(in.)	1500 (59.1)	1500 (59.1)	1500 (59.1)	1666 (65.6)
Front tires			6-12	6-12	7-12	7-12
Rear tires			8.3-16	9.5-16	11.2-16	12.4-16
Boom cylinder	Bore	mm(in.)	38.1 (1-1/2)	38.1 (1-1/2)	44.5 (1-3/4)	44.5 (1-3/4)
	Stroke	mm(in.)	307 (12.1)	307 (12.1)	289 (11.4)	435 (17.1)
Bucket cylinder	Bore	mm(in.)	38.1 (1-1/2)	38.1 (1-1/2)	44.5 (1-3/4)	44.5 (1-3/4)
	Stroke	mm(in.)	330 (13.0)	330 (13.0)	330 (13.0)	450 (17.7)
Control Valve	3 Position bucket control valve type		One Detent Float Position, Power Beyond Circuit			
	4 Position bucket control valve type		One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit			
Rated flow		L/m(GPM)	14.6 (3.9)	16.6 (4.4)	16.6 (4.4)	24.4 (6.4)
Maximum pressure		kg/cm²(psi)	141 (2000)	155 (2200)	141 (2000)	141 (2000)
Net weight (Approximate)		kg(lbs.)	208 (460)	216 (475)	226 (500)	280 (617)

BUCKET SPECIFICATIONS

Loader model			LA272, LA302	LA352	LA402	LA402(Option)
Model			Square 48	Square 50	Square 54	Square 60 LM
Width		mm(in.)	1220 (48.0)	1270 (50.0)	1370 (54.0)	1525 (60.0)
Depth (L)		mm(in.)	465 (18.4)	495 (19.4)	485 (19.1)	525 (20.6)
Height (M)		mm(in.)	480 (18.9)	485 (19.1)	525 (20.6)	540 (21.2)
Length (N)		mm(in.)	500 (19.6)	525 (20.6)	530 (20.8)	570 (22.5)
Capacity	Struck	m³(cu.ft.)	0.15 (5.2)	0.16 (5.5)	0.19 (6.7)	0.23 (8.1)
	Heaped	m³(cu.ft.)	0.17 (6.2)	0.18 (6.5)	0.23 (8.1)	0.28 (9.9)
Weight		kg(lbs.)	54 (120)	62 (137)	79 (175)	82 (180)

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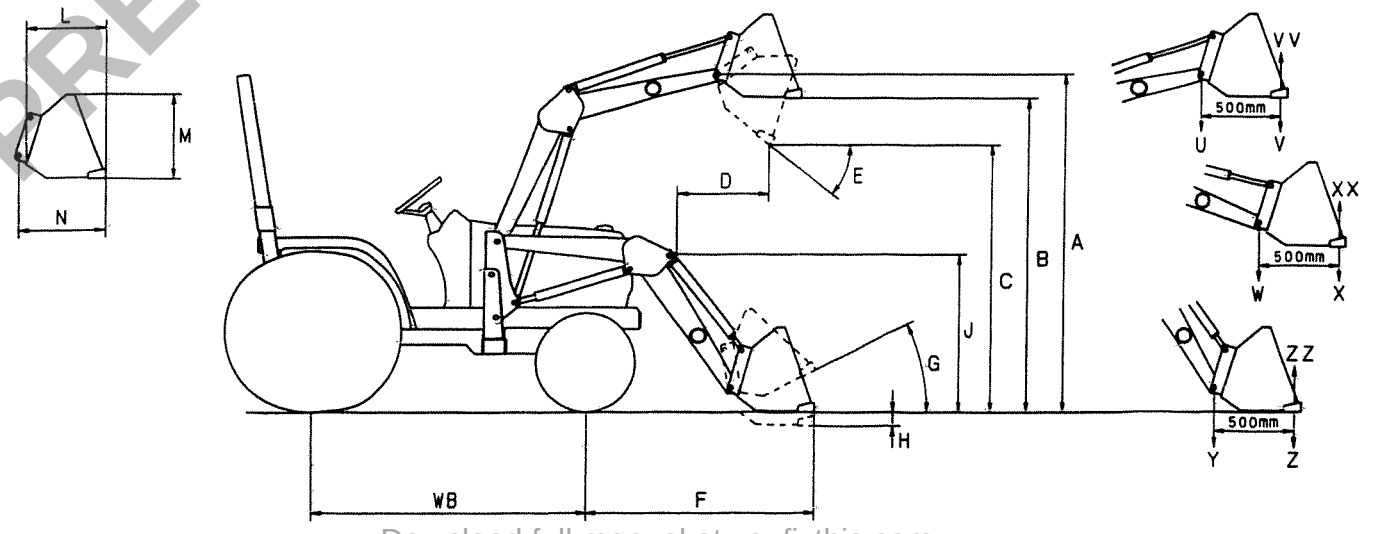
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DIMENSIONAL SPECIFICATIONS

Loader model			LA272	LA302	LA352	LA402
(A)	Maximum lift height to pivot pin	mm(in.)	1770 (69.7)	1765 (69.5)	1770 (69.7)	2090 (82.3)
(B)	Maximum lift height under level bucket	mm(in.)	1635 (64.4)	1630 (64.2)	1630 (64.2)	1940 (76.4)
(C)	Clearance with bucket dumped	mm(in.)	1310 (51.6)	1320 (52.0)	1310 (51.6)	1665 (65.5)
(D)	Reach at maximum lift height	mm(in.)	680 (26.8)	645 (25.4)	635 (25.0)	660 (26.0)
(E)	Maximum dump angle	deg.	45	45	45	40
(F)	Reach with bucket on ground	mm(in.)	1280 (50.4)	1295 (51.0)	1320 (52.0)	1375 (54.1)
(G)	Bucket roll-back angle	deg.	24	24	24	26
(H)	Digging depth	mm(in.)	80 (3.1)	80 (3.1)	80 (3.1)	135 (5.3)
(J)	Overall height in carrying position	mm(in.)	1150 (45.3)	1160 (45.7)	1160 (45.7)	1195 (47.0)

OPERATIONAL SPECIFICATIONS

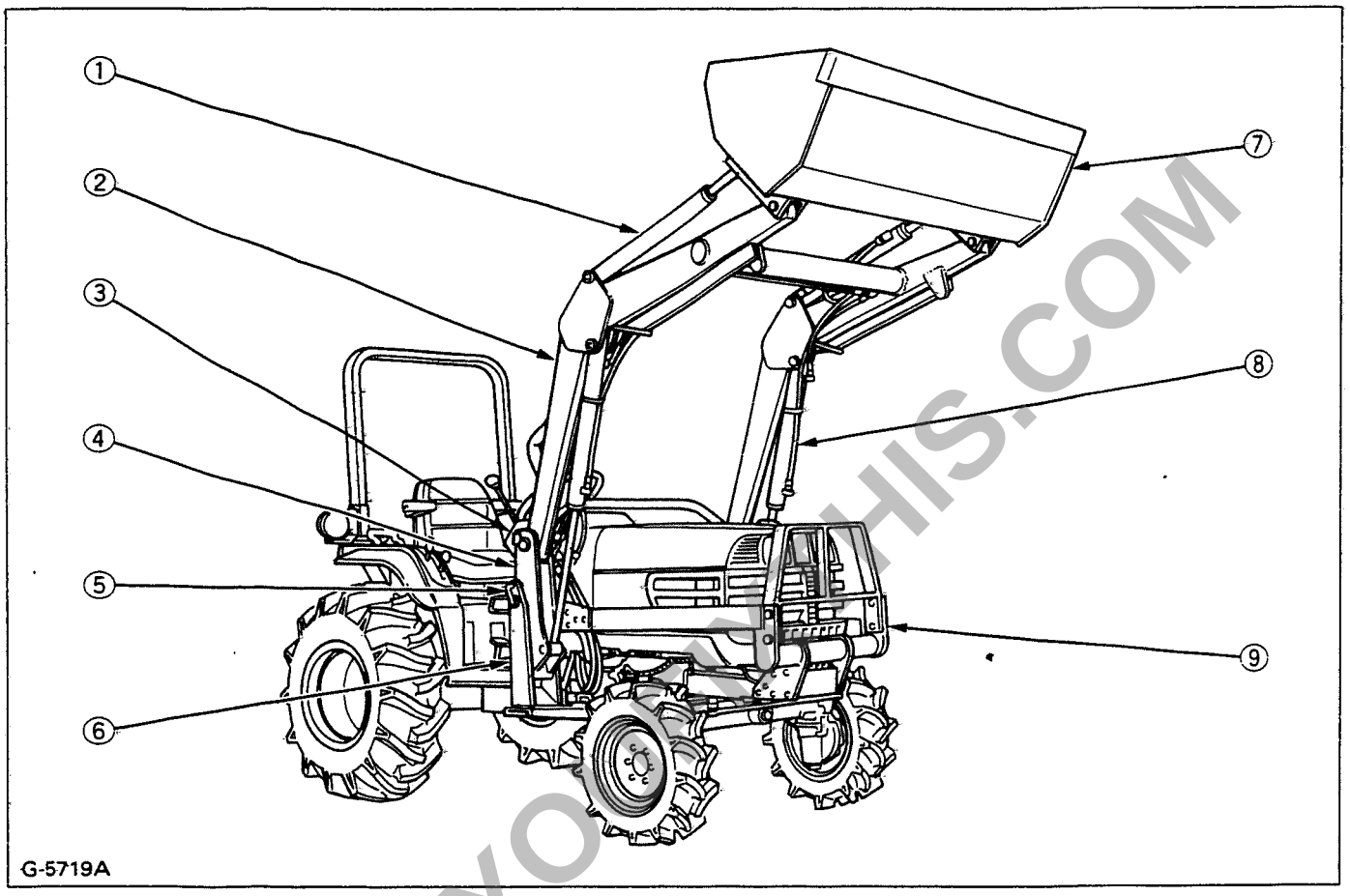
Loader model			LA272	LA302	LA352	LA402
Lift capacity to maximum height (Bucket bottom mid point)		kg(lbs.)	270 (595)	300 (660)	350 (770)	400 (880)
(U)	Lift capacity to maximum height-at pivot pin	kg(lbs.)	310 (685)	350 (770)	420 (925)	480 (1060)
(V)	Lift capacity to maximum height	kg(lbs.)	225 (495)	250 (550)	305 (670)	345 (760)
(W)	Lift capacity to 1.5m (59in.) height-at pivot pin	kg(lbs.)	345 (760)	390 (860)	470 (1035)	600 (1325)
(X)	Lift capacity to 1.5m (59in.) height	kg(lbs.)	255 (560)	290 (640)	350 (770)	455 (1005)
(Y)	Breakout force-at pivot pin	N(lbs.)	6280 (1410)	7010 (1575)	8380 (1885)	10250 (2305)
(Z)	Breakout force	N(lbs.)	4460 (1005)	4990 (1120)	5940 (1335)	7500 (1685)
(VV)	Bucket rollback force at maximum height	N(lbs.)	5000 (1125)	5540 (1245)	8430 (1895)	10450 (2350)
(XX)	Bucket rollback force at 1.5m (59in.) lift height	N(lbs.)	5440 (1225)	6030 (1355)	9120 (2050)	12540 (2820)
(ZZ)	Bucket rollback force at ground line	N(lbs.)	4510 (1015)	4950 (1115)	7450 (1675)	10540 (2370)
Raising time		sec.	3.3	2.7	3.1	3.2
Lowering time		sec.	2.5	2.2	2.5	2.4
Bucket dumping time		sec.	1.9	1.6	1.9	1.9
Bucket rollback time		sec.	2.2	1.8	2.5	2.4



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LOADER TERMINOLOGY



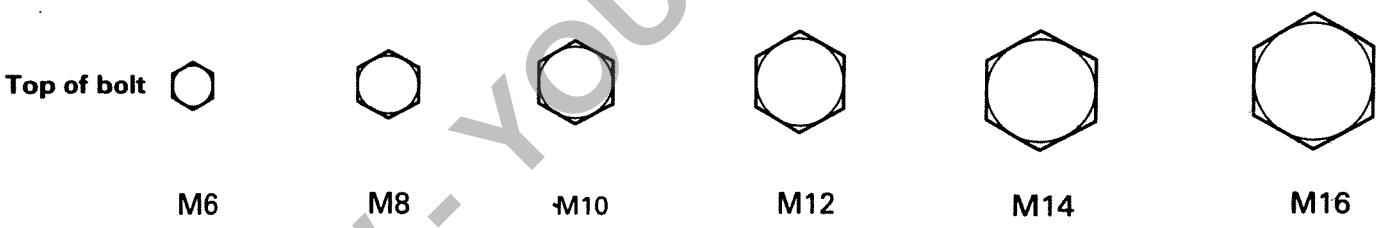
(1) Bucket cylinder
(2) Boom
(3) Hydraulic control valve
(4) Side frame
(5) Mounting pin
(6) Main frame
(7) Bucket
(8) Boom cylinder
(9) Brace

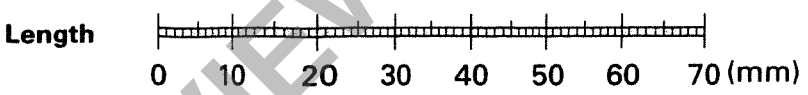
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General torque specification

American standard cap screws with UNC or UNF threads			Metric cap screws 8.8		
SAE grade No.		GR 5 or GR 8	property class		8.8 Approx. SAE GR 5
1/4	(N-m) (kgf-m) (ft-lbs)	9.8 to 11.7 1.0 to 1.2 7.2 to 8.6	M6	(N-m) (kgf-m) (ft-lbs)	9.8 to 11.2 1.0 to 1.1 7.2 to 8.3
5/16	(N-m) (kgf-m) (ft-lbs)	19 to 23.1 1.9 to 2.4 14 to 17	M8	(N-m) (kgf-m) (ft-lbs)	23.6 to 27.4 2.4 to 2.8 17.4 to 20.2
3/8	(N-m) (kgf-m) (ft-lbs)	33.9 to 40.7 3.5 to 4.2 25 to 30	M10	(N-m) (kgf-m) (ft-lbs)	48.1 to 55.8 4.9 to 5.7 35.5 to 41.2
1/2	(N-m) (kgf-m) (ft-lbs)	88.1 to 105.8 9.0 to 10.8 65 to 78	M12	(N-m) (kgf-m) (ft-lbs)	77.5 to 90.1 7.9 to 9.2 57.2 to 66.5
9/18	(N-m) (kgf-m) (ft-lbs)	122 to 146.4 12.4 to 14.9 90 to 108	M14	(N-m) (kgf-m) (ft-lbs)	124 to 147 12.6 to 15.0 91.2 to 108
5/8	(N-m) (kgf-m) (ft-lbs)	176.3 to 211.5 18.0 to 21.6 130 to 156	M16	(N-m) (kgf-m) (ft-lbs)	196 to 225 20.0 to 23.0 145 to 166





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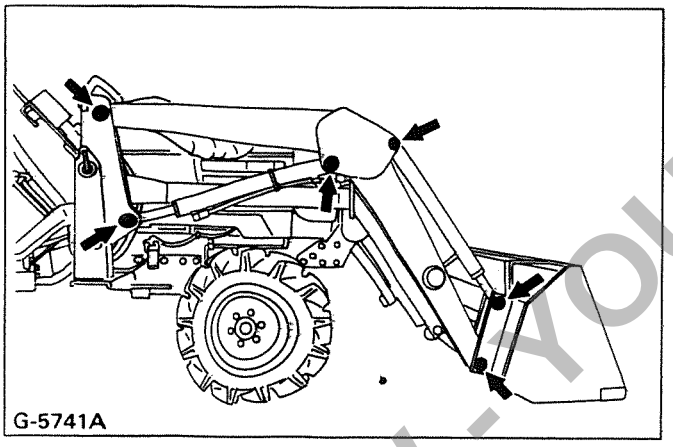
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MAINTENANCE

LUBRICATION

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.**

1. Lubricate all 12 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.

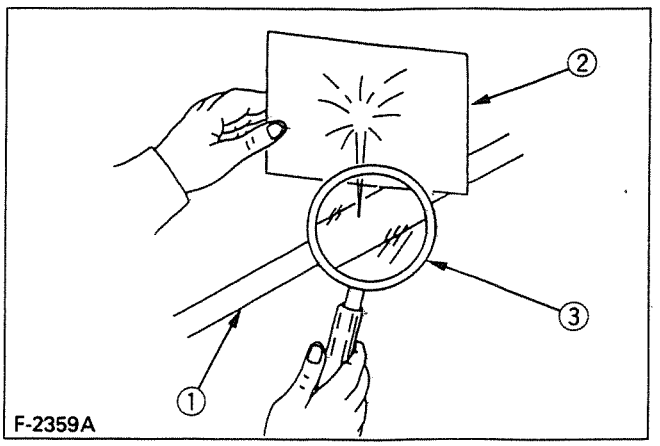

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2. Daily before operation, check the tractor hydraulic fluid level. If low, add as described in the tractor's Operator's Manual. Also change the filter element and the hydraulic fluid as recommended in the tractor's Operator's Manual.

DAILY CHECKS

1. Check all hardware daily before operation. Tighten hardware to torque values as specified in the "Installation Instructions" and "Tightening Torque Chart".
2. With the engine off and the bucket on the ground, inspect all hoses for cuts or wear. Check for signs of leaks and make sure all fittings are tight.

CAUTION
To avoid personal injury:
- **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 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 hands, to search for suspected leaks.



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(1) Hydraulic line
(2) Cardboard
(3) Magnifying glass

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.
- **When removing the engine side covers, be careful not to touch hot loader cylinders.**
  Allow all surfaces to cool before performing maintenance.

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