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 fork.
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 the loader boom to the ground, stop the engine, remove the key and lock the brakes before leaving the tractor seat.
20. Do not remove loader from tractor without approved bucket attached.
21. Make sure the parked loader is on stands and on a hard, level surface.
22. Operate the loader controls only when properly seated at the controls.
23. Visually check for hydraulic leaks and broken, missing, or malfunctioning parts.
    Make necessary repairs before operation.
24. 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.
25. Before disconnecting hydraulic lines, relieve all hydraulic pressure.
26. 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.
27. Using loaders for handling large heavy objects, such as large round or rectangular bales, logs and oil drums is not recommended.
28. 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.
29. If you must perform this sort of work (item 27), protect yourself by :
    - Never lift the load higher than necessary to clear the ground.
    - Adding rear ballast to the tractor to compensate for the load.
    - Never lift large object with equipment that may permit it to roll back onto the operator.
    - Moving slowly and carefully, avoiding rough terrain.
30. It is the 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

L3010, L3410 4 and 2 wheel drive models: LA482
L3710, L4310, L4300 4 and 2 wheel drive models: LA682

LOADER SPECIFICATIONS

Loader model			LA482	LA682	
Tractor model			L3010DT, L3410DT	L3710DT, L4310DT	L4300DT
Wheel base (WB)		mm(in.)	1670 (65.7)	1805 (71.1)	
Front tires			7.2-16	8.3-16	
Rear tires			12.4-24	14.9-24	
Boom cylinder	Bore	mm(in.)	45 (1-3/4)	50 (2.00)	
	Stroke	mm(in.)	450 (17.72)	485 (19.10)	
Bucket cylinder	Bore	mm(in.)	45 (1-3/4)	50 (2.00)	
	Stroke	mm(in.)	450 (17.72)	450 (17.72)	
Control Valve	Standard valve type		One Detent Float Position, Power Beyond Circuit		
	Remote valve type		One Detent Float Position, Two Stage Bucket Dump, Power Beyond Circuit		
Rated flow		L/m(GPM)	26.4 (7.0)	29.5 (7.8)	24.4 (6.4)
Maximum pressure		MPa(kg/cm^2, psi)	17.2 (175, 2490)		
Net weight (Approximate)		kg(lbs.)	380 (835)	440 (970)	

BUCKET SPECIFICATIONS

Loader model			LA482	LA682	LA482	LA682	LA482, LA682	LA482, LA682
Model			Square 60	Square 60	Square 66	Square 66	HD Round 60	Light Material 70
Width		mm(in.)	1525 (60.0)	1525 (60.0)	1675 (66.0)	1675 (66.0)	1525 (60.0)	1780 (70.0)
Depth (L)		mm(in.)	520 (20.5)	570 (22.4)	495 (19.5)	545 (21.5)	525 (20.7)	600 (23.6)
Height (M)		mm(in.)	530 (20.9)	530 (20.9)	515 (20.3)	515 (20.3)	605 (23.8)	620 (24.4)
Length (N)		mm(in.)	570 (22.5)	620 (24.4)	545 (21.5)	595 (23.5)	620 (24.4)	655 (25.8)
Capacity	Struck	m^3(cu.ft.)	0.23 (8.1)	0.25 (8.8)	0.23 (8.1)	0.25 (8.8)	0.24 (8.5)	0.36 (12.7)
	Heaped	m^3(cu.ft.)	0.28 (9.9)	0.31 (10.9)	0.29 (10.1)	0.31 (10.9)	0.30 (10.6)	0.45 (16.0)
Weight		kg(lbs.)	96 (212)	112 (247)	98 (216)	110 (243)	139 (308)	113 (250)

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OPERATING THE LOADER

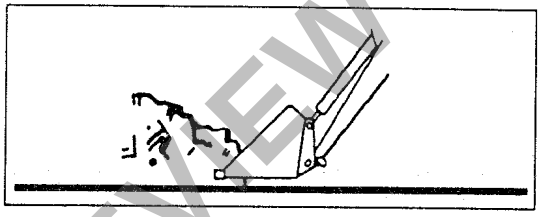
The loader should be operated with the tractor engine speed depending on the application and the operator's level of experience. Excessive speeds are dangerous, and may cause bucket spillage and unnecessary strain on the tractor and loader.
When operating in temperatures below –1°C(30°F), run the tractor engine below 1200 min^{-1}(rpm) until the oil temperature exceeds –1°C(30°F).
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.**

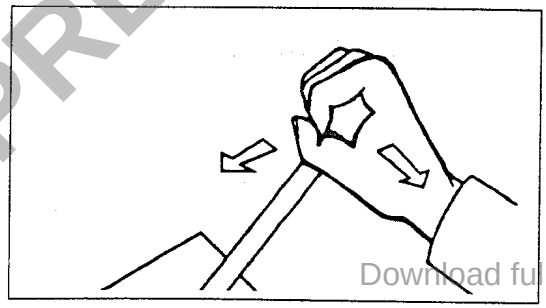
IMPORTANT:
- When operating the loader in rough terrain, remove the mower to avoid damage to the mower.

FILLING THE BUCKET

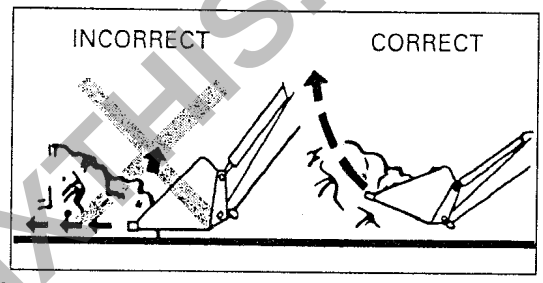
Approach and enter the pile with a level bucket.



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



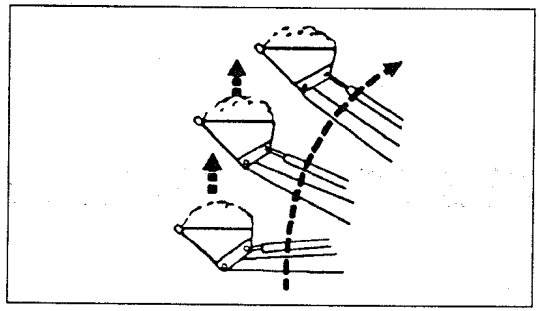
The rollback and lifting of the bucket will increase efficiency because a level bucket throughout the lifting cycle resists bucket lift and increases breakaway effort.



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.

LIFTING THE LOAD

When lifting the load, keep the bucket positioned to avoid spillage.



WARNING
To avoid serious personal injury:
- **Do not attempt to lift bucket loads in excess of the loader capacity.**
- **Before raising the bucket to full height, make sure the tractor is on level ground. If not, it may tip over, even if the tractor is not moving.**

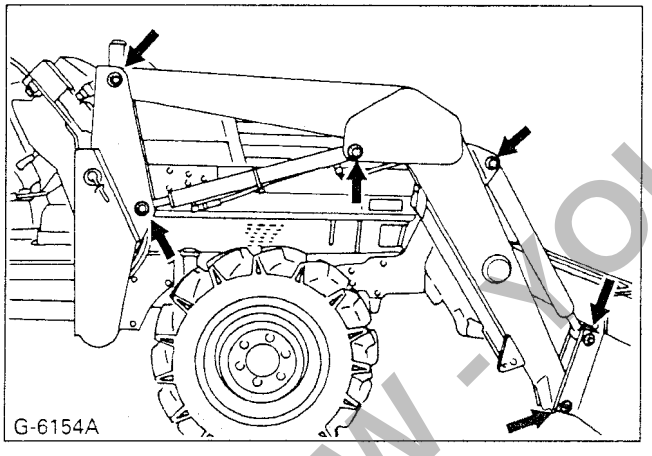
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MAINTENANCE

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 operator's manual. Also change the filter element and the hydraulic fluid as recommended in the tractor operator's manual.

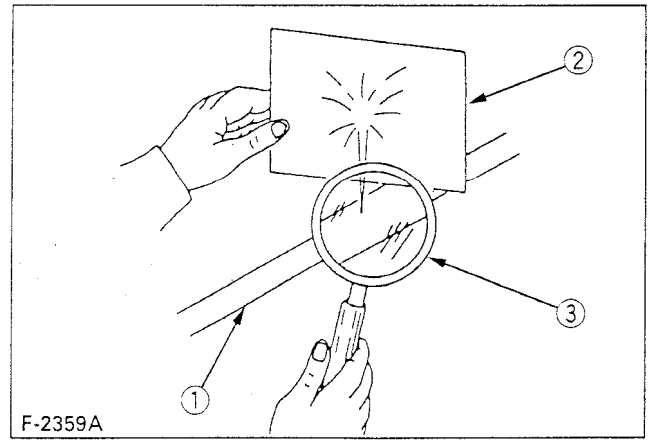
RE-TIGHTENING OF HARDWARE

After 20 to 30 hours of initial loader operation, retighten all mounting bolts and nuts to the required torque value as specified in the "Installation Instructions".

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.

WARNING
To avoid serious 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 your hands, to search for suspected leaks.



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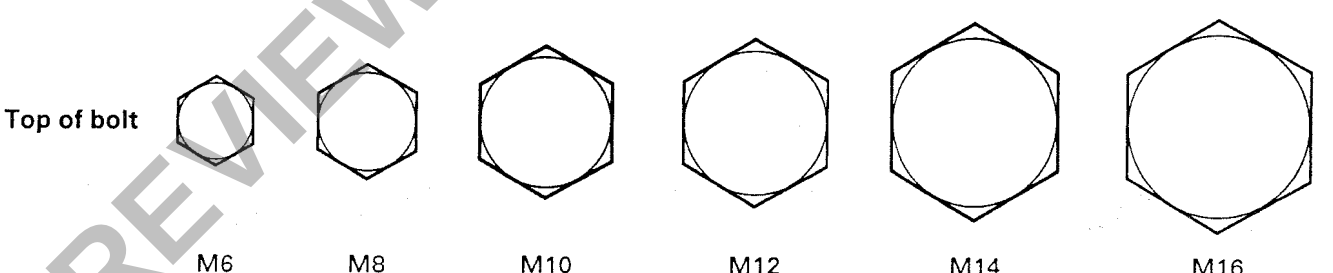
(1) Hydraulic line
(2) Cardboard
(3) Magnifying glass

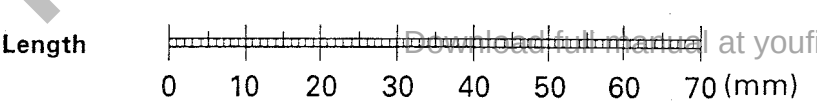
If injured by escaping fluid, see a doctor at once. Serious infection or allergic reaction will develop if proper medical treatment is not administered immediately.
- **When removing the engine side covers, be careful not to touch hot loader cylinders.**
  Allow all surfaces to cool before performing maintenance.

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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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TRACTOR PREPARATION

1. Set front tread as follows.

	Front Tread	
	2WD	4WD
L3010 L3410	1060 mm (41.7 in.)	Front axle is not adjustable.
L3710 L4310 L4300	1145 mm (45.1 in.)	

IMPORTANT:

- Setting tread wider than recommended may cause premature failure of front axle components due to excessive stress.

2. For better stability, set the rear tread as follows depending on the requirements of the work being done.

	Rear Tread
L3010 L3410	1125 mm (44.3 in.) or more
L3710 L4310 L4300	1180 mm (46.5 in.) or more

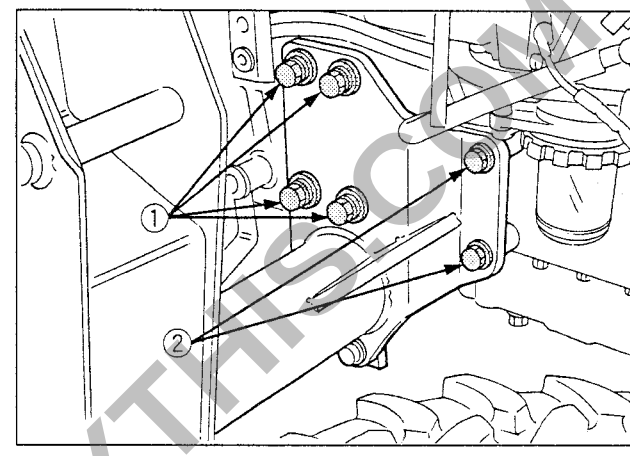
INSTALLATION INSTRUCTIONS

IMPORTANT:

- 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 mount to the tractor. The bolts that go only in the loader are standard.
- Do not tighten any bolts firmly until most components are attached to 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, and make sure that the mounting pins can be rotated easily. Torque all bolts and nuts in this position.
- To avoid damage to hoses, adjust all connections to route hoses away from sharp edges.
- Assemble on the surface, preferably concrete.

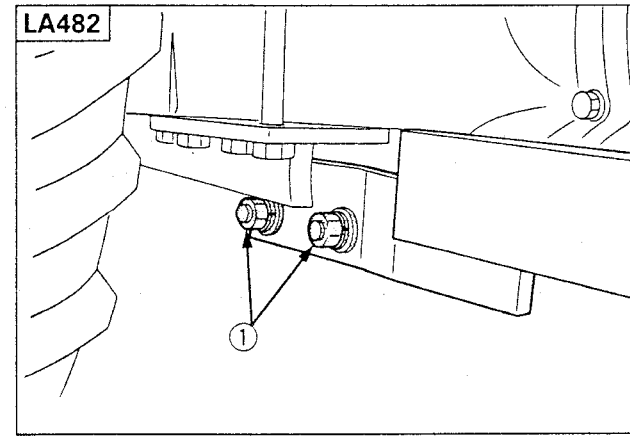
■ Main Frames and Connector

1. Attach the main frame LH and RH to the flywheel housing and tractor front axle frame as shown.



(1) 8-M14×40 bolts
8-9/16 spring lock washers
8-9/16 hardened plain washers
(2) 4-M12×80 bolts
4-M12 spring lock washers

2. **[LA482]**
Attach the rear of main frames to the stabilizer brackets.
[LA682]
Attach the rear of main frames to the case.

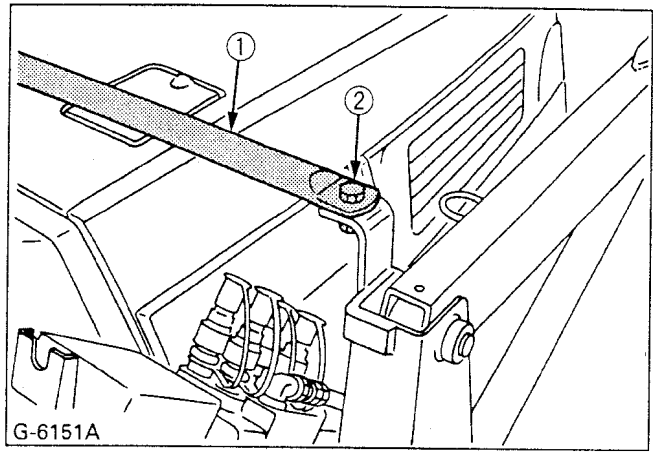


(1) 4-9/16-18UNF×1 1/2 bolts
4-9/16-18UNF nuts
4-9/16 hardened plain washers
4-9/16 spring lock washers

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■ Connecting Bar

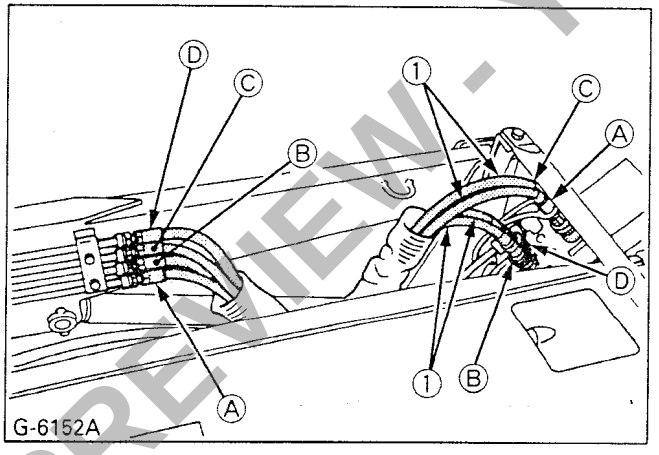
Install connecting bar to the top of side frames.



(1) Connecting bar
(2) 2-9/16UNF×1 1/2 bolts
2-9/16UNF nuts
2-9/16 spring lock washers

■ Hydraulic Hoses

1. Connect the four color coded hoses to the hydraulic tubes on the loader boom.

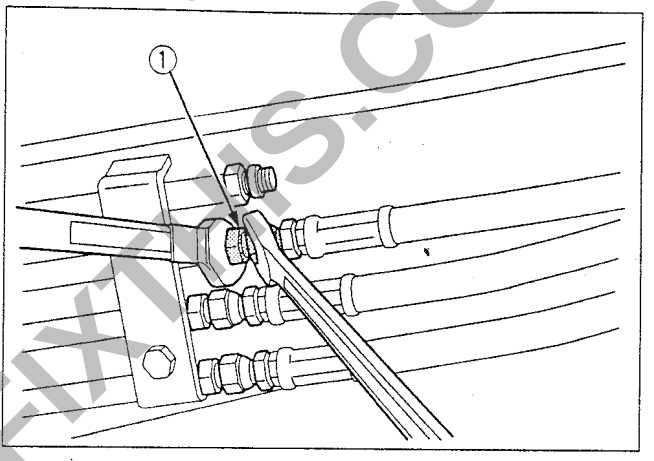


*(1) **[Standard valve type]***
4-Hose1 1003 mm (39.5 in.)
[Remote valve type]
2-Hose1 1295 mm (51.0 in.)
2-Hose 2 1220 mm (48.0 in.)

(A) "WHITE"
(B) "YELLOW"
(C) "BLUE"
(D) "RED"

IMPORTANT:

- For fastening hydraulic hose with tube fitting, use two wrenches. Securely hold the fitting with a wrench, turn the hose with another wrench to avoid damage at the welded area.

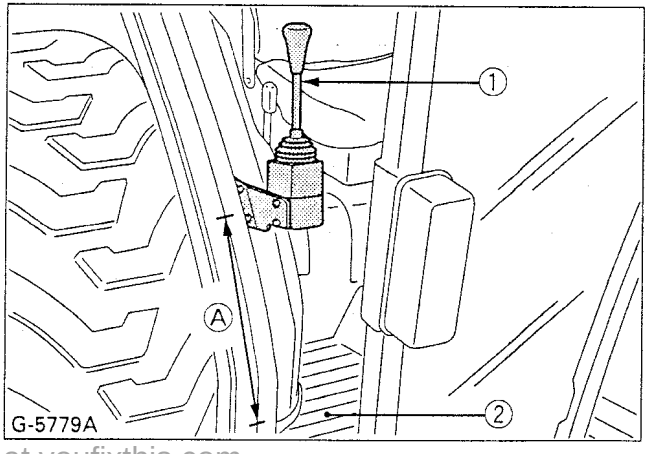


(1) Tube fitting

Remote valve type

■ Controller Assembly

1. Position the controller assembly to the fender RH approximately 400 mm (15 3/4 in.) high along the fender from the step as shown below. Adjust the location of the controller assembly so that all three mounting holes are utilized and in contact with the fender and then mark the mounting holes.



(1) Controller assembly
(2) Step
(A) 400 mm (15 3/4 in.)

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