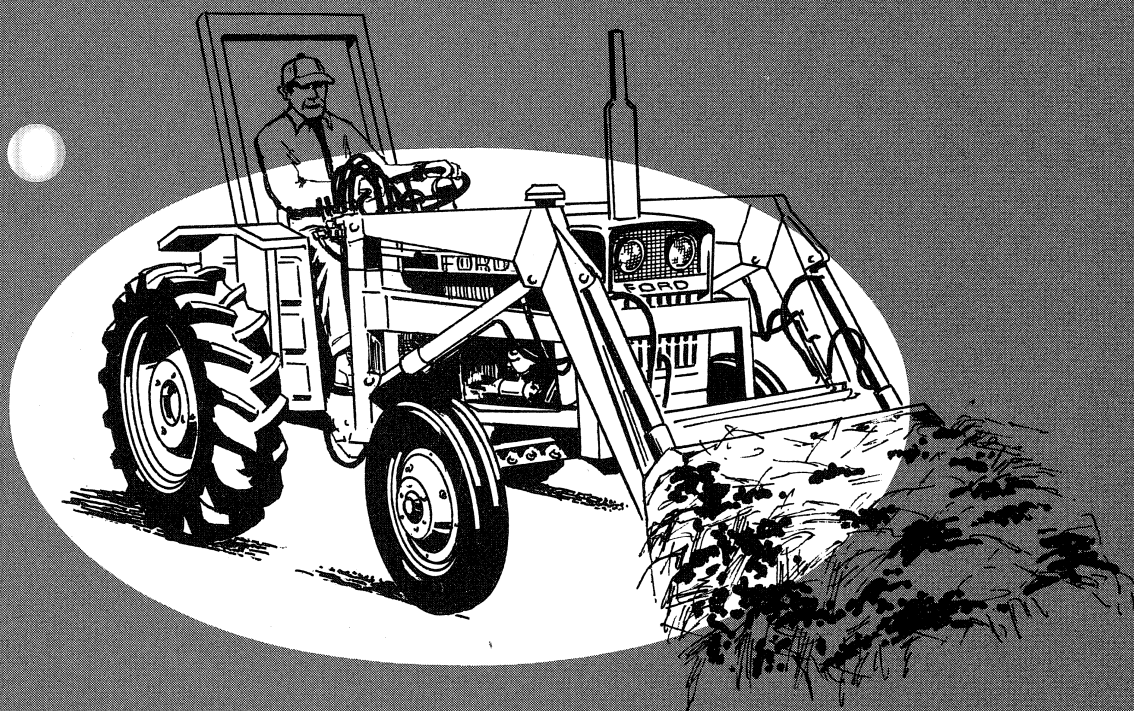


FORD **SERIES 770** **FARM LOADER**

Operator's Manual



Ford Tractor Operations

42077010

Reprinted



Warranty and Limitation of Liability Ford Tractors and Equipment

COVERAGE PROVIDED

Ford Motor Company and the Selling Dealer jointly warrant to the original purchaser with respect to each Ford Tractor, Ford Implement or piece of Ford Equipment that for the periods specified herein, the Selling Dealer will repair or replace any part that is found to be defective in factory materials or workmanship.

Tractors designated for agricultural use 12 Months

Self-propelled combines and attachments 12 Months

Garden tractors, rider mowers and related attachments 12 Months

Except commercial usage in which case coverage is 90 Days

Tractors and related equipment designated for industrial usage 6 Months

Agricultural implements except self-propelled combines and attachments 6 Months

- The warranty period will begin on the date of original retail delivery or date of original use, whichever is earlier.
- The obligation of Ford and the Selling Dealer under this warranty is limited to repairs or replacements which will be made free of charge for both parts and labor using Ford service parts.
- The repairs or replacements will be performed by the Selling Dealer following delivery of the unit by the customer to the dealer's place of business in the United States.
- If the owner is traveling or has moved a long distance from the Selling Dealer, any authorized Ford Tractor and Equipment Dealer will perform the repairs.
- The Selling Dealer shall review these warranty provisions with his customer, secure his customer's acknowledgement of delivery of this warranty and record the date of original retail delivery.

WHAT IS NOT COVERED BY THE WARRANTY

1. This warranty shall NOT apply to any Ford Tractor, Ford Implement or Ford Equipment:
 - (i) With respect to vendor warranted items such as tires and tubes and attachments, or to batteries which are covered by the Ford Parts and Accessories Warranty.
 - (ii) With respect to vendor warranted items on the Series 340 Compact Loader which includes engine, battery, tires and tubes and attachments.
 - (iii) If it has been subject to misapplication, abuse, misuse, negligence, or fire or other accident, or
 - (iv) If parts not made or supplied by Ford have been used in connection with it if, in the sole judgment of Ford, such use affects its performance, stability or reliability, or
 - (v) If it has been altered or repaired outside of a Ford location in a manner which, in the sole judgment of Ford, affects its performance, stability or reliability.
2. This warranty shall NOT apply to normal maintenance services (such as tune-ups, fuel system cleaning and wheel, brake and clutch adjustments) or to normal replacement of service items (such as filters and brake or clutch linings) or to normal deterioration due to use and exposure (such as belts and exterior finish).
3. This warranty shall NOT apply to any Ford unit which is distributed by anyone other than Ford Tractor and Equipment Operations - North America through its dealers in the United States. This warranty shall NOT apply to any Ford unit which is normally operated outside of the United States.

DISCLAIMER OF IMPLIED WARRANTIES

Except for personal injuries proven to have been caused by a defect, **THIS WARRANTY, to the extent allowed by law, IS EXPRESSLY IN LIEU OF any other express or implied warranty, condition or guarantee agreement or representation by any person with respect to any Ford Tractor, Ford Implement or Ford Equipment or any part thereof, including ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.**

- Ford Motor Company and its authorized dealers will not assume any responsibility under this warranty for any loss of use of the unit, loss of time, inconvenience, commercial loss or consequential damages.
- No person is authorized to make any representations beyond those expressed herein.

RIGHT TO MAKE DESIGN CHANGES

Ford Motor Company reserves the right to make changes in the design of and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it or sold or shipped by it.

FOREWORD

Read this manual carefully before operating your loader, and keep it handy for future reference. If at any time, you have a service problem with your loader, remember your Ford Tractor-Equipment dealer is best qualified to service it. To do the right job in the shortest time, his factory-trained technicians, genuine Ford parts, and the correct tools and equipment are at your convenience.



SAFETY PRECAUTIONS



Most farm 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. Do not attempt to start the tractor engine while standing beside the tractor. Always start the engine while sitting in the tractor operator's seat.
2. Always stop the engine when leaving the tractor.
3. Do not leave the tractor-loader when it is in motion.
4. Do not allow anyone but the operator to ride on the tractor-loader.
5. Do not make mechanical adjustments while the unit is in motion, the bucket is raised, or the engine is running.
6. Do not tow the tractor faster than 20 mph.
7. Do not attempt to repair or tighten hydraulic hoses when under pressure, when the tractor engine is running, or when the lift arms are raised.
8. Do not dismount from the tractor and leave the loader lift arms raised.
9. Do not get under the bucket or lift arms or reach through the lift arms when the loader is raised.
10. When parking, make sure the parking brakes are set and the bucket is fully lowered.
11. Place adequate counterweight on the rear of the tractor and move wheels to recommended settings for optimum stability.
12. Exercise extreme caution when operating the tractor with a raised, loaded bucket or fork.

GENERAL

The Ford Series 770 Loader is designed for light, utility loader work. There are two options offered; the standard model, which consists of single acting lift cylinders and a mechanical trip mechanism for dumping the bucket, and the deluxe model which has double acting cylinders for both lift and bucket control.

NOTE: Any reference in this manual to left, right, front or rear are viewed from the tractor operator's seat.

CONTROLS

Standard Model

The standard model utilizes single acting lift cylinders and a remote valve which mounts on top of the tractor hydraulic valve, Figure 1.

NOTE: The remote control valve is a tractor accessory and is not included in the standard model.

Actuating the control lever, Figure 1, regulates the action of the single acting lift cylinders. A rearward pull on the control lever extends the cylinder rods causing the loader arms to raise. Releasing the control lever establishes a neutral "as is" position. The loader arms will remain in this position until the control lever is again actuated. A forward push will enable gravity to force the loader arms down. The loader lowers strictly through gravitational pull.

The bucket is controlled by a mechanical trip, Figure 2. The trip mechanism is actuated by a firm pull on the trip handle, Insert Figure 2, and the bucket dumps. To reset the mechanical trip, lower the bucket to the ground and back the tractor until the trip engages.

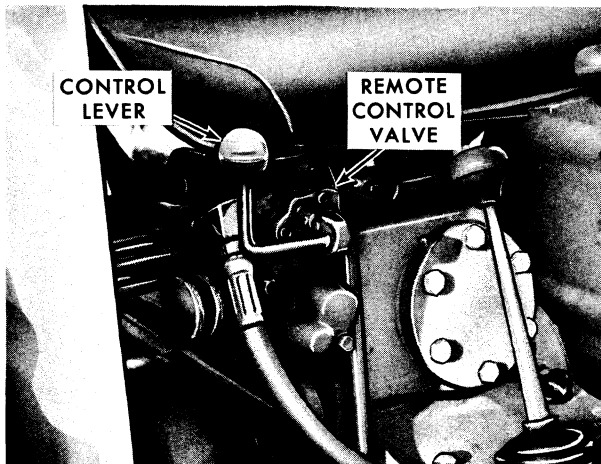


Figure 1
Single Acting Cylinder Control

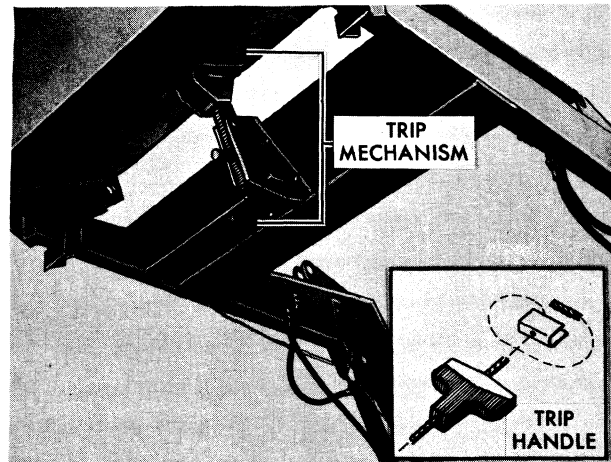


Figure 2
Mechanical Trip

Deluxe Model

The deluxe model employs two double-acting lift cylinders, two double-acting bucket cylinders, and a loader valve with two control levers, Figure 3. The left lever regulates the raising and lowering of the loader arms. The right lever, or bucket control lever, actuates the bucket cylinders performing the roll back and dump functions.

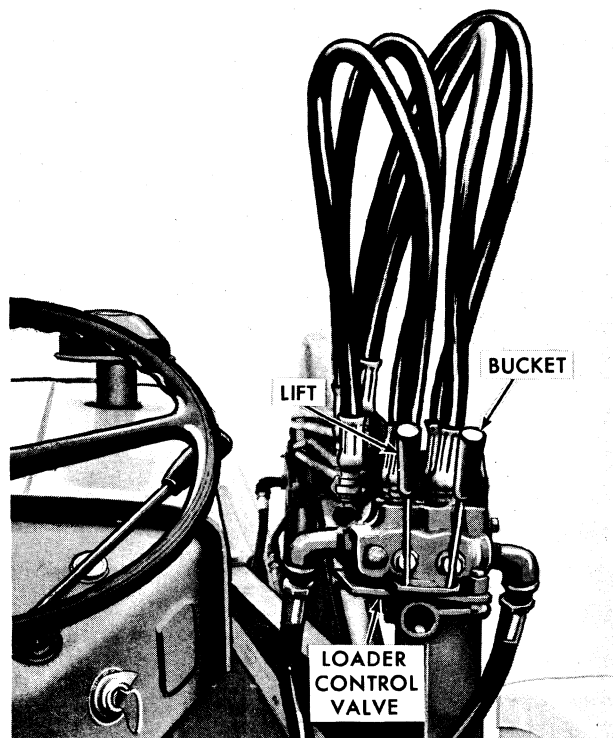


Figure 3
Double Acting Cylinder Controls

Use the levers in respect to your own movements as shown in the chart below.

LEVER MOVEMENT LIFT LEVER BUCKET LEVER

Forward
(away from operator) Loader Arms Bucket
Drop Dumps

Full Forward
(float) Bucket follows
the contour
of the ground

Release
(neutral) Loader
Remains in
Position Bucket
Remains in
Position

Rearward
(toward the operator) Loader Arms Bucket Rolls
raise back

OPERATION

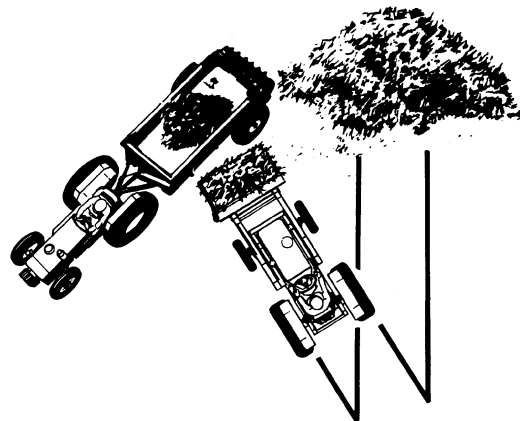
Pre-Operation

Before using the 770 Loader it will be necessary to add counterweight to the rear of the tractor for safe operation. It is recommended that either one full set of rear wheel weights or 75 percent liquid ballast be used in the rear tires as counterweight. Refer to your tractor Operator's Manual for weighting limitations.

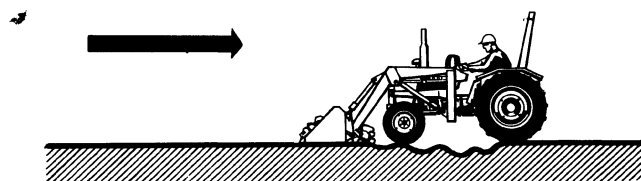
Operating Techniques

A series of line drawings have been prepared showing the loader in various applications. We suggest that you study these drawings and read the corresponding comments before operating the loader. They will help you obtain more efficient and safer loader operation.

Loading Low Trucks or Spreaders From a Pile



For faster loading, minimize the angle of turn and length of run between pile and spreader.

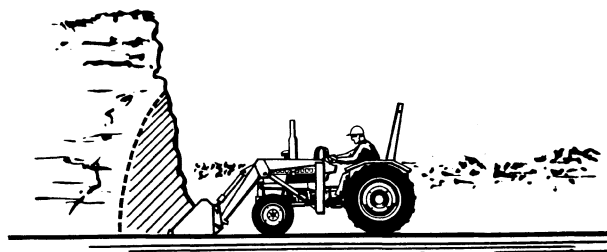


Backgrade occasionally with a loaded bucket to keep the working surface free of ruts and holes. Also, hold the lift lever forward so the full weight of the bucket is scraping the ground. Use the heel of the bucket.

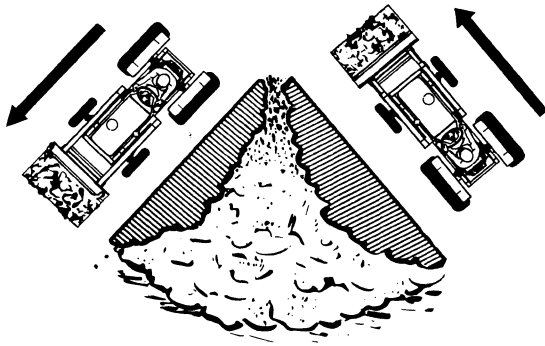
LOADING FROM A BANK

Choose a forward gear that provides sufficient ground speed for loading.

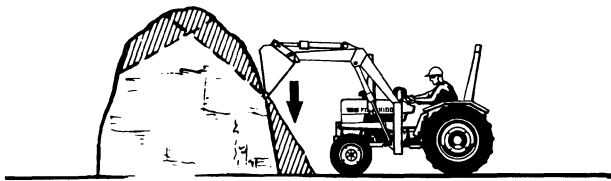
High Banks and Piles



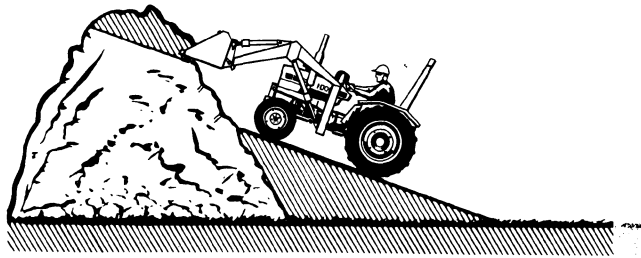
Exercise caution when undercutting high banks. Dirt slides can be dangerous. Load from as low as possible for maximum efficiency. Loader lift and break-away capacity diminish as loading height is increased.



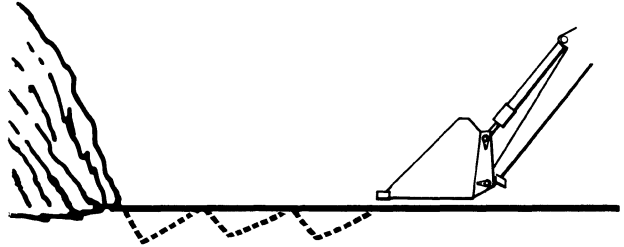
Sidecutting is a good technique for cutting down a big pile.



If the pile sides are too high and liable to cause cave-in, use the loader to break down the sides until a slot can be cut over the top.



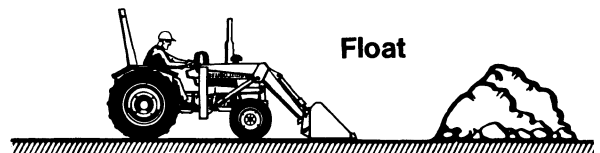
Another method for large dirt piles is to build a ramp approach to the pile.



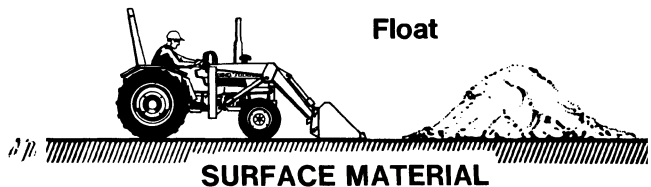
It's important to keep the bucket level when approaching a bank or pile. This will help prevent gouging the work area.

OPERATING WITH FLOAT CONTROL

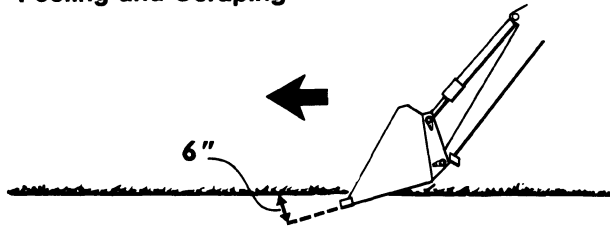
During hard surface operation, keep the bucket level and put the lift lever in the float position to permit the bucket to float on the working surface. If hydraulic down pressure is exerted on the bucket it will wear faster than normal.



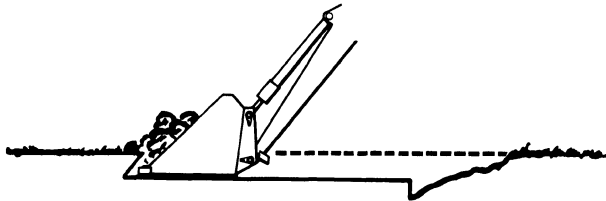
The float will also prevent the mixing of surface material with stockpile material. The float position will reduce the chance of surface gouging when removing snow or other material, or when working with a blade.



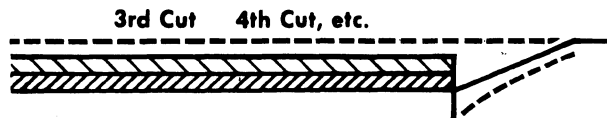
Peeling and Scraping



Use a slight bucket angle, travel forward, and hold the lift lever forward to start the cut. Make a short, 5 to 8 foot, angle cut and break-out cleanly.



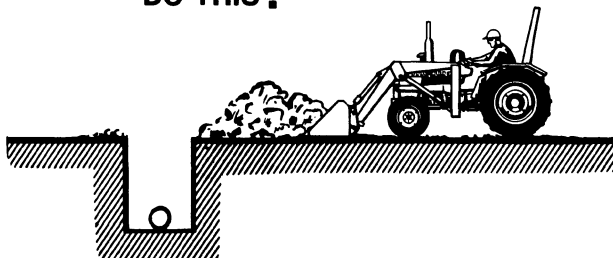
With the bucket level, start a cut at the notch approximately 2" deep. Hold the depth by feathering the bucket lever to adjust the cutting lip up or down. When the front tires enter the notch, adjust the lift cylinder to maintain proper depth.



Make additional passes until the desired depth is reached. During each pass, only use the bucket control lever while at working depth. This will allow you to concentrate on controlling the bucket angle to maintain a precise cut.

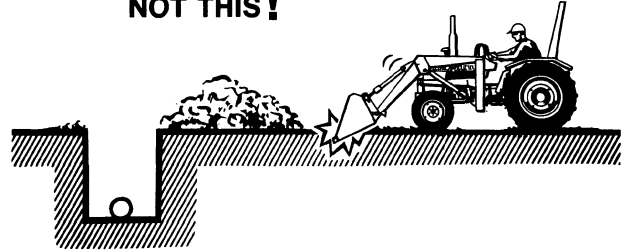
Backfilling

DO THIS !



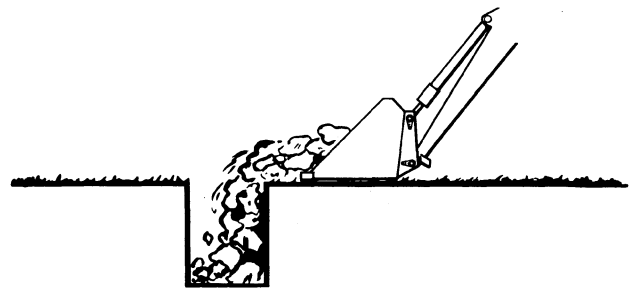
Approach the pile with a flat bucket.

NOT THIS !

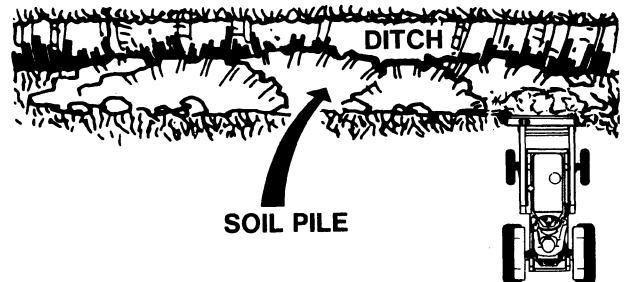


Poor methods actually move no more dirt and make it more difficult to hold a level grade.

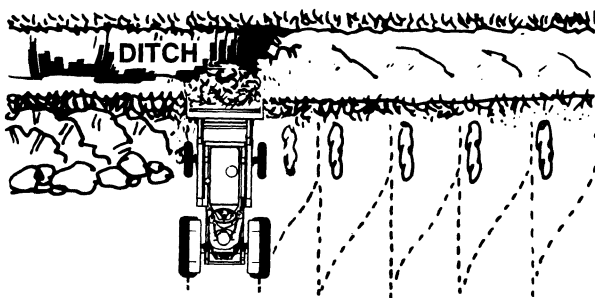
IMPORTANT: Do not use the bucket in the dumped position for bulldozing. This method, shown above, will impose severe shock loadings on the dump linkage, the bucket cylinder, and the tractor.



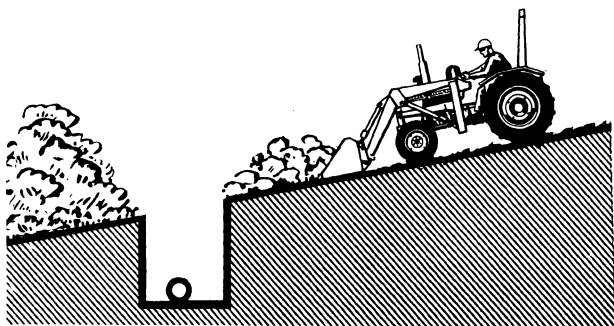
Leave dirt in the bucket because dumping on each pass wastes time.



Operate at right angles to the ditch. Take as big a bite as the tractor can handle without lugging down.



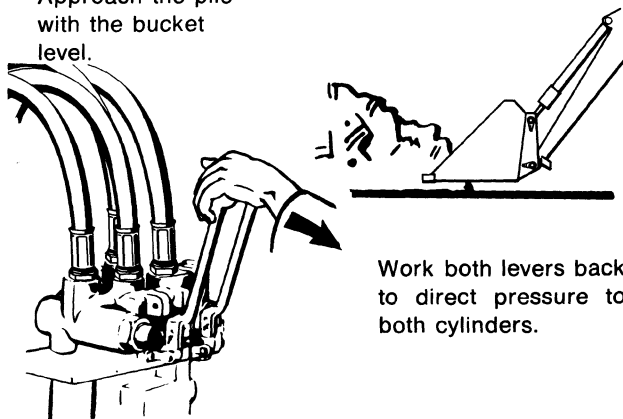
Leave dirt which drifts over the side of the bucket for final clean-up.



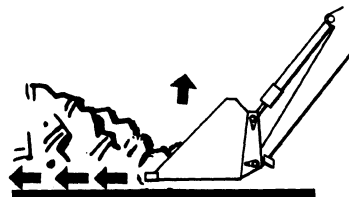
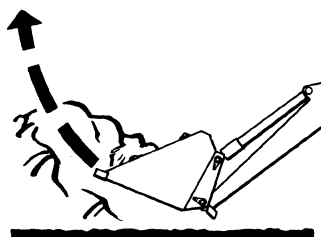
Pile dirt on the high side for easier backfilling on a slope.

Loader Break-Away (Hydraulic Dump Models)

Approach the pile with the bucket level.

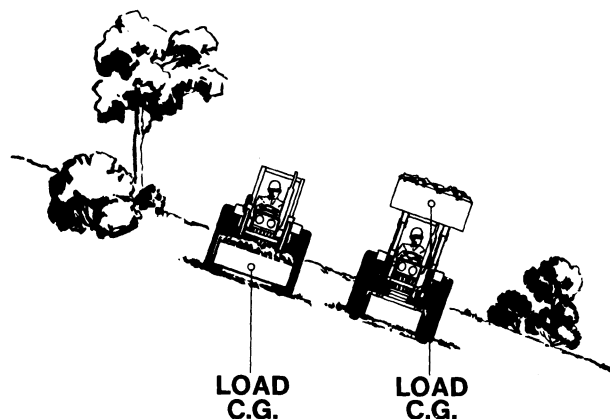


The combined action of the lift and bucket cylinders will increase efficiency because



. . . . A straight bottom throughout offers more resistance to lift.

Safe Loader Operation



Carry the bucket low for safety. Note in the above illustration how the load center moves out when the bucket is raised on a slope. You must be alert for terrain changes and adjust your loader operation and ground speed accordingly.

LUBE AND MAINTENANCE

Regular maintenance of the loader and hydraulic system will contribute to maximum loader efficiency and long life from your new investment.

- Check the level of hydraulic oil in the tractor daily. If necessary, add oil as recommended in your tractor Operator's Manual.
- After every eight hours of operation, lubricate the four lubrication fittings. There is one at each lift arm-to-side frame post pivot and one at each bucket pivot point.
- Repair hydraulic oil leaks promptly to avoid loss of oil and damage to the system.
- Replace hoses immediately, if they are cut or damaged.

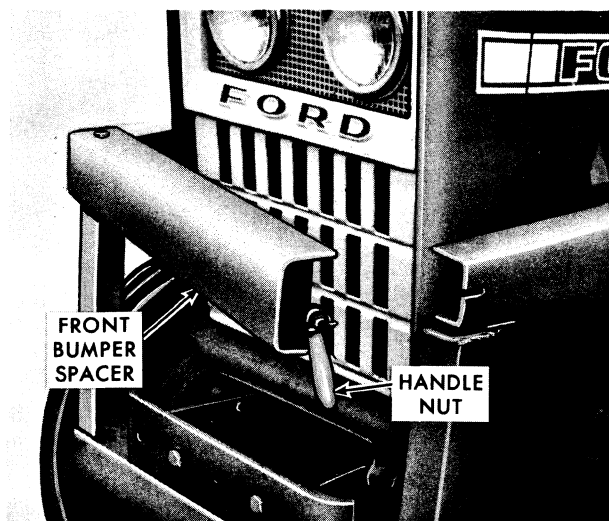


Figure 4
Tractor Engine Access

- After every ten hours of operation, check the loader assembly bolts and tighten as necessary.

For easy accessibility to the tractor engine compartment, the top section of the loader front bumper pivots, as shown in Figure 4.

LOADER REMOVAL

Position the tractor to enable the securing of an overhead chain to the loader. Make sure the tractor engine is turned off and ample time has been allowed for the hydraulic oil to cool.

Relieve all the pressures from the system by actuating the control levers with the bucket flat on the ground.

Standard Model:

Disconnect the hose from the loader hydraulic tube then from the remote valve, Figure 5. Take off the hose clamps and remove the hose. Cap and/or plug the open ports on the hose, hydraulic tube and valve to prevent dirt from entering the system.



CAUTION: Be sure the remote valve is plugged securely before operating the tractor.

Deluxe Model

Disconnect both hoses from the adapter plate on the tractor hydraulic valve. Remove the hose clamps and

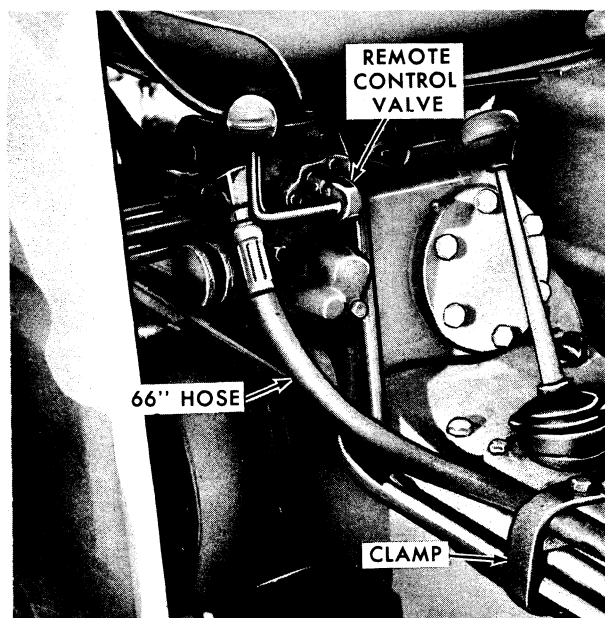


Figure 5
Hose Removal
(Standard Loader)

disconnect the hoses from the loader valve, Figure 6. Plug and/or cap the open ports to prevent dirt from entering the system.

Remove the adapter plate and reinstall the tractor hydraulic valve cover in its original position.

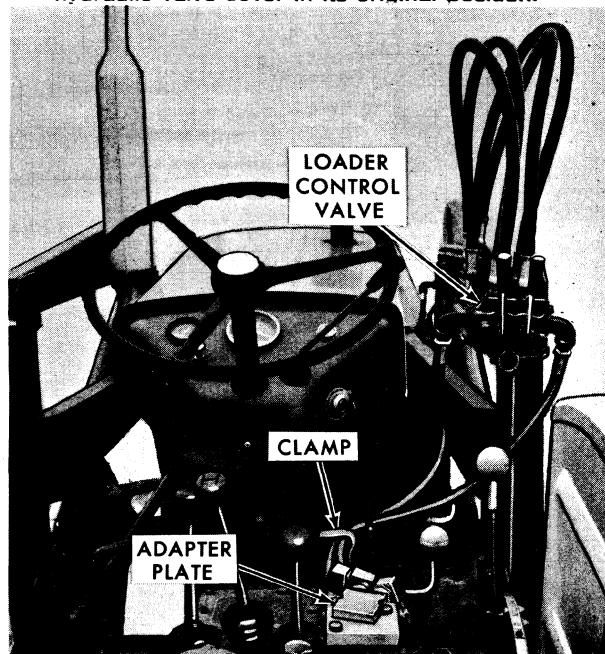


Figure 6
Hose Removal
(Deluxe Loader)

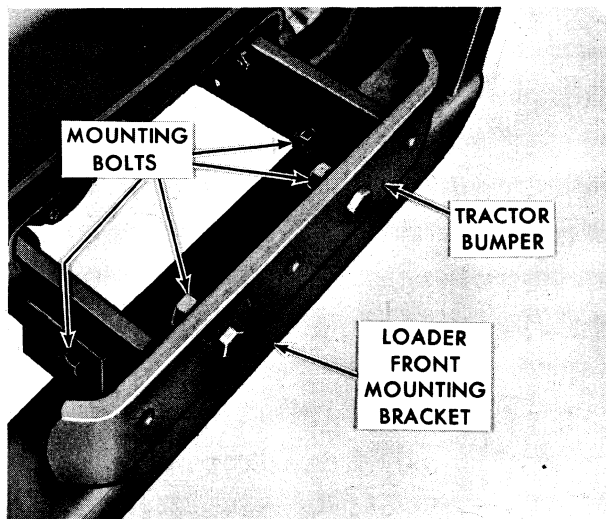


Figure 7
Front Mounting Removal

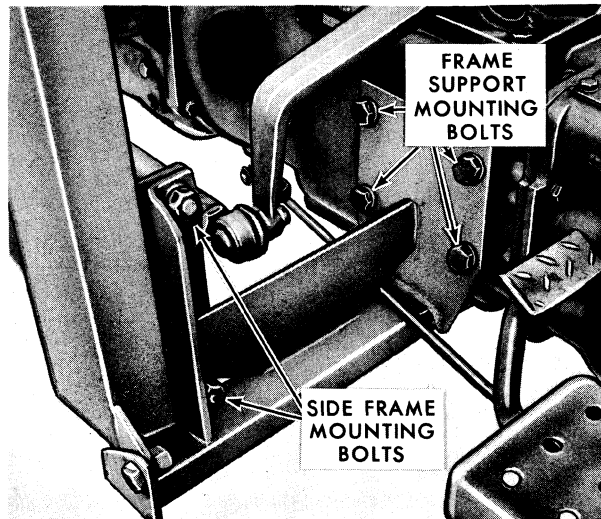


Figure 8
Loader Removal

NOTE: The following procedures for loader removal apply to both the standard model and deluxe model unless otherwise stated.

2. Attach a suitable hoist to the loader side frames and remove the slack from the hoist chains.
3. Remove the mounting bolts (Figure 7) securing the loader front mounting bracket to the tractor bumper.
4. The side frame mounting bolts, Figure 8, are then removed on both sides from the frame support.



CAUTION: The loader may shift when this step is performed.

5. Make sure the loader is free from the tractor and back the tractor away from the loader. Lower the loader to the ground.



CAUTION: Do not get under the loader arms at any time.

6. Remove the four frame support mounting bolts, Figure 8, on each side and remove the frame support from under the tractor.

STORAGE

Check hydraulic hoses for cracks or weak points and replace as required. Make sure all ports in the hydraulic system including the separate hoses are plugged and/or capped.

Always store the loader in a clean, dry place. Coat the exposed parts of the control valve spools and cylinder rods with a rust preventive such as grease or heavy oil.

SHIPPING INFORMATION

Use the shipping information to make sure all parts are present upon delivery. It is also valuable as a reference during assembly. See Figures 9-15.

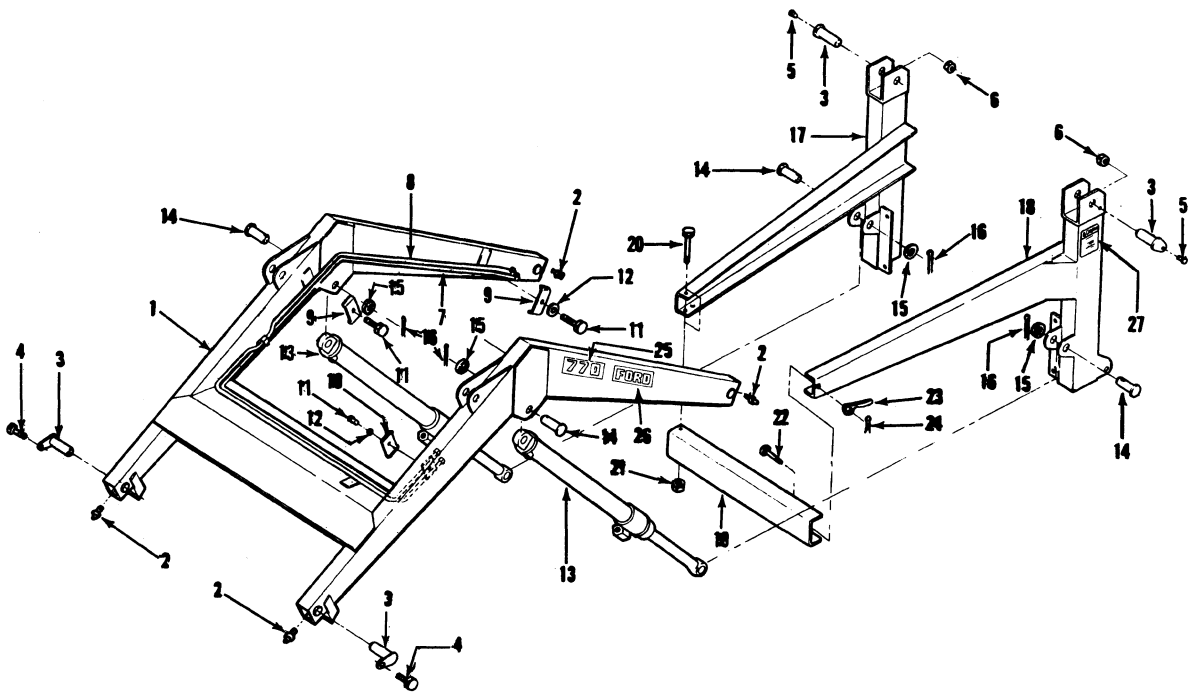


Figure 9
Loader Assembly & Related Parts

KEY TO FIGURE 9

Quantity		Quantity	
1.	Loader Boom Assembly	1	15. Bushing
2.	Grease Fittings	4	16. Cotter Pin
3.	Pin Assembly (1" X 3-3/8")	4	17. Frame Assembly (right)
4.	Screw (3/8 - 16 X 5/8)	2	18. Frame Assembly (left)
5.	Bolt (3/8 - 16 X 1)	2	19. Bumper Spacer
6.	Nut (3/8 - 16)	2	20. Bolt (1/2 - 13 X 5)
7.	Tube Assembly (Piston end)	1	21. Nut
8.	Tube Assembly (Rod end)	1	22. Bolt
9.	Clamp	2	23. Nut
10.	Clamp	1	24. Pin
11.	Bolts (3/8 - 24 X 1)	3	25. Decal (FORD)
12.	Lockwashers (3/8)	3	26. Decal (770)
13.	Cylinder Assembly	2	27. Decal (Caution)
14.	Pin (1 X 3-15/32) (Cylinder-to-frame)	4	

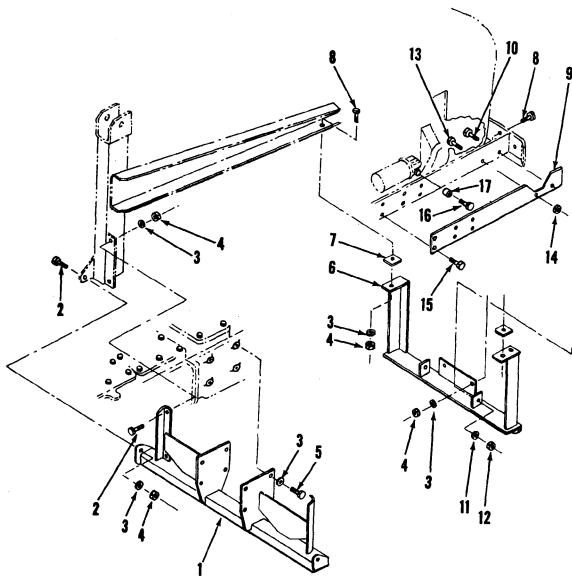


Figure 10
Loader Kit Installation

KEY TO FIGURE 10

	Quantity
1. Frame Support	1
2. Bolt (5/8 - 11 X 1-1/4)	6
3. Lockwasher (5/8)	18
4. Nut (5/8 - 11)	10
5. Screw (15 mm X 25 mm X 2 mm)	8
6. Front Mounting Bracket	1
7. Spacer	2
8. Bolt (5/8 - 11 X 1-1/2)	4
9. Reinforcement Plates	2
10. Bolt (1/2 - 13 X 2)	2
11. Lockwasher	2
12. Nut (1/2 - 13)	2
13. Bolt (1/2 - 13 X 1-3/4)	2
14. Nut (1/2 - 13)	2
15. Screw (12 mm X 45 mm X 2 mm)	8
16. Screw (10 mm X 45 mm X 2 mm)	
17. Spacer	1

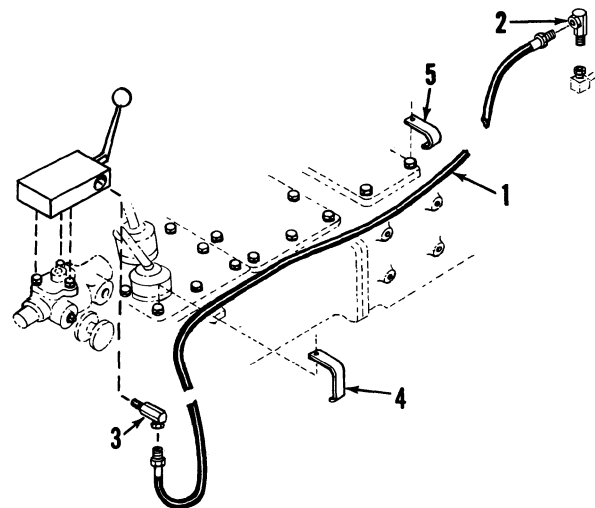


Figure 11
Hose Kit

KEY TO FIGURE 11

	Quantity
1. Hose (3/8" X 66")	1
2. Swivel Adapter 3/8 X 3/8 X 90°	1
3. Swivel Adapter 9/16 to 3/8 X 90°	1
4. Clip	1
5. Clip	1

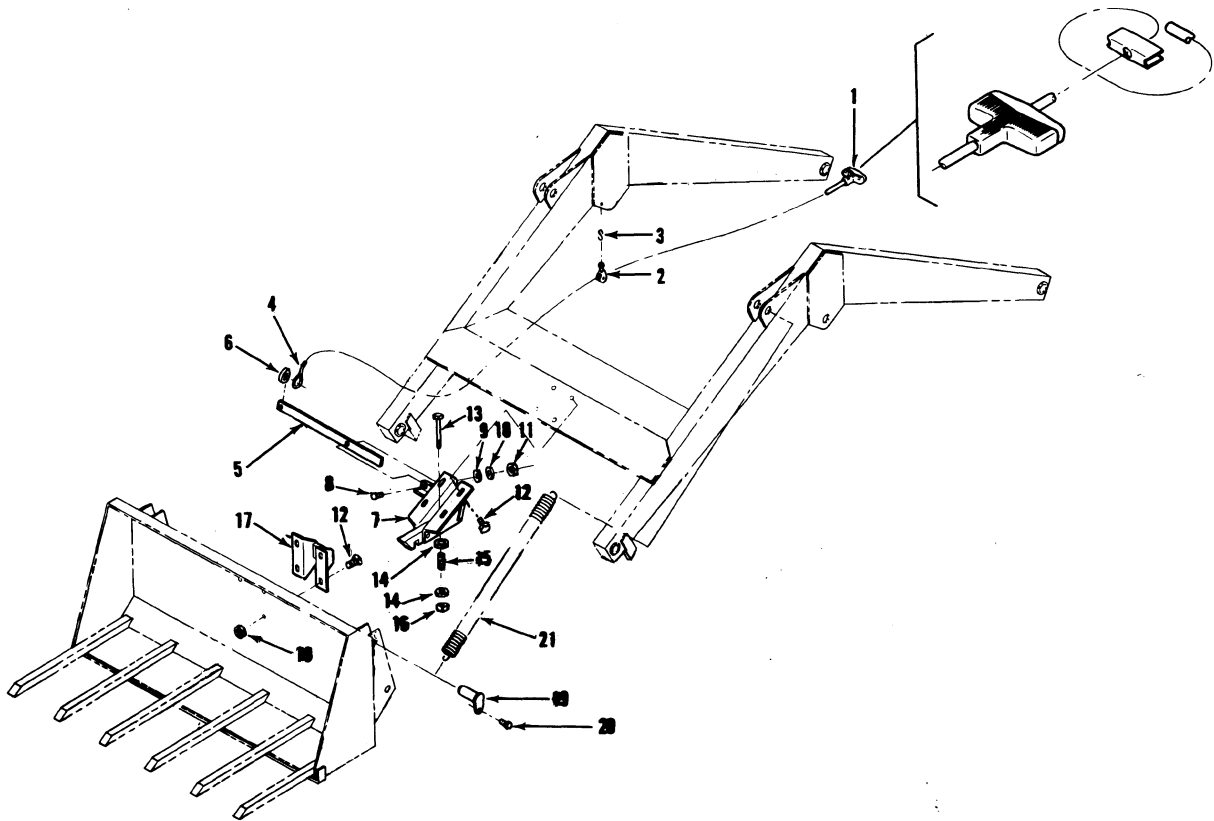


Figure 12
Mechanical Bucket Control

KEY TO FIGURE 12

	Quantity		Quantity
1. Trip Handle	1	11. Nut (1/2" - 13)	1
2. Guide Pulley	1	12. Screw (1/2" - 13 X 3/4")	8
3. S-Hook	1	13. Bolt (3/8" - 16 X 4-1/2)	1
4. Trip Rope	1	14. Flat Washer (3/8")	2
5. Trip Lever	1	15. Spring	1
6. Thimble	1	16. Nut (3/8" - 16)	1
7. Catch	1	17. Latch	1
8. Bolt (1/2 - 13 X 1)	1	18. Nut (1/2 - 13)	4
9. Bushing	1	19. Pin (1" X 3-3/8")	1
10. Flat Washer (1/2")	1	20. Screw (3/8" - 16 X 5/8")	1
		21. Spring	1

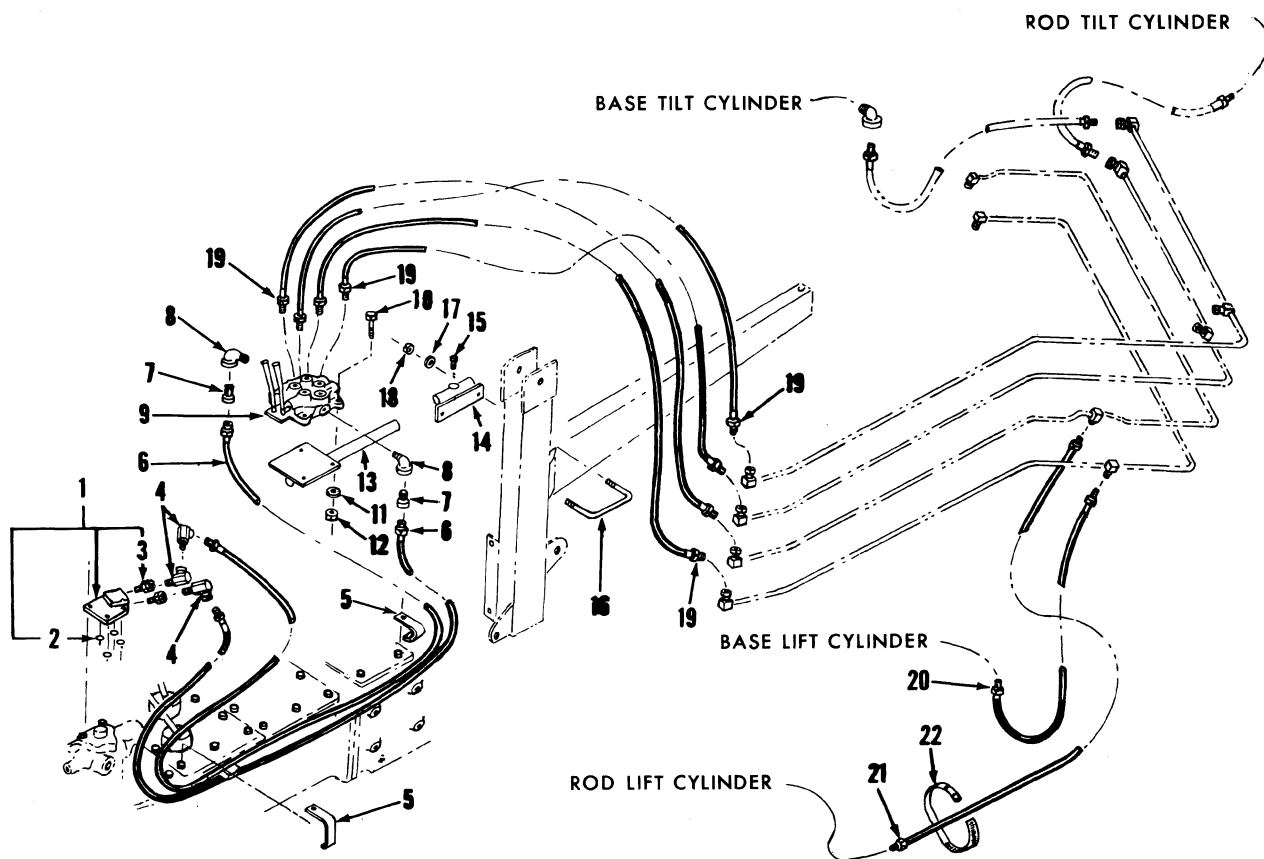


Figure 13
Hose and Valve Kit

KEY TO FIGURE 13

	Quantity		Quantity
1. Adapter	1	12. Nut (1/4 - 20)	3
2. "O" Ring	4	13. Valve Mounting Bracket	1
3. Swivel Union (9/16 to 3/8)	2	14. Mounting Bracket	1
4. Swivel Adapter (3/8" X 90°)	3	15. Screw (Square Head)	1
5. Hose Clip	2	16. U-Bolt	1
6. Hose (3/8" X 66")	2	17. Lockwasher (3/8")	2
7. Bushing	2	18. Nut (3/8" - 16)	2
8. Street Elbow (1/2 X 90°)	2	19. Hose (3/8" X 30")	4
9. Loader Valve	1	20. Hose (3/8" X 19")	2
10. Bolt (1/4" - 20 X 1-1/4")	3	21. Hose (3/8" X 38")	2
11. Lockwasher	3	22. Hose Clamp	2

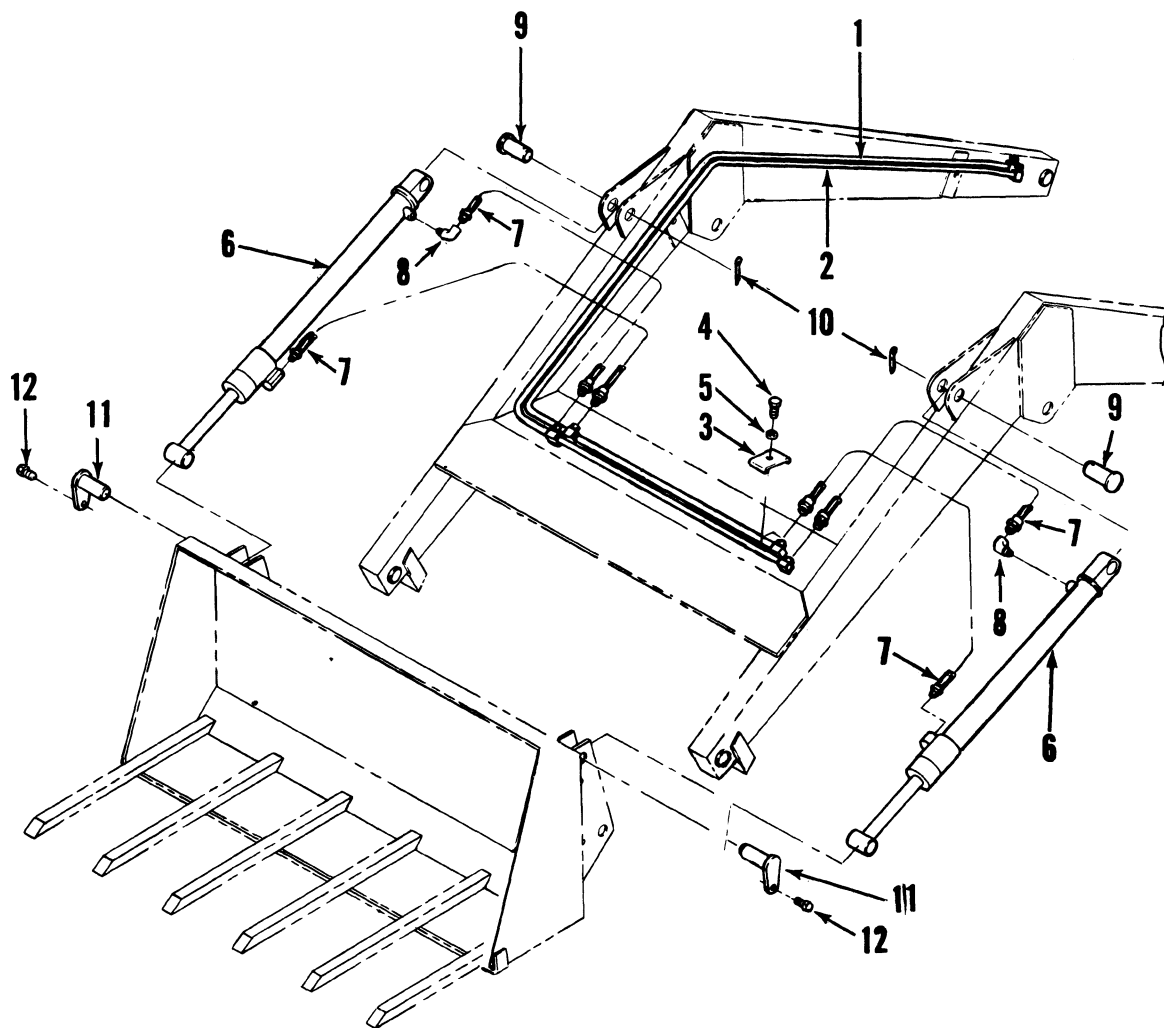


Figure 14
Hydraulic Bucket Control

KEY TO FIGURE 14

	Quantity
1. Tube Assembly	1
2. Tube Assembly	1
3. Clamp	1
4. Bolt (3/8" - 24 X 1")	1
5. Lock Washer (3/8)	1
6. Bucket Cylinder	2
7. Hose (3/8" X 19")	4
8. 90° Elbow (3/8 N.P.T.)	2
9. Pin (1" X 2-1/8")	2
10. Cotter Pin	2
11. Pin (1" X 3-3/8")	2
12. Screw	2

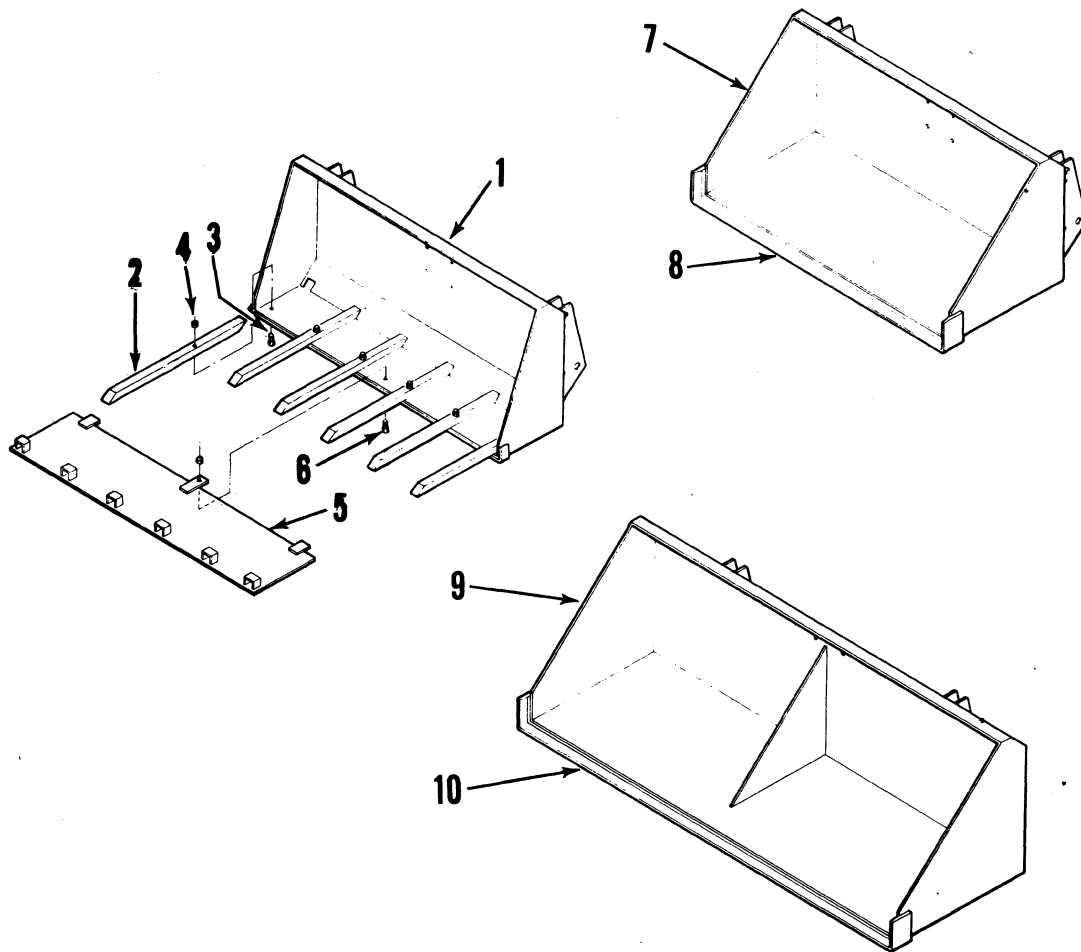


Figure 15
Optional Buckets

KEY TO FIGURE 15

	Quantity
1. Manure Bucket	1
2. Tine	6
3. Bolt (3/8" - 16 X 1-1/2")	6
4. Nut (3/8 - 16)	7
5. Dirt Plate	1
6. Bolt (3/8" - 16 X 3/4")	1
7. Utility Bucket	1
8. Cutting Edge (40")	1
9. Light Material Bucket (60")	1
10. Cutting Edge	1

LOADER ASSEMBLY

Before beginning the actual assembly of the loader, check the contents of all bundles to make sure all the parts are present. A check with the shipping instructions may prove helpful. It is recommended that the following instructions be read carefully before starting the assembly procedure.

1. Mount the frame support bracket to the tractor housing as shown in Figure 16, using four 15 mm X 25 mm metric cap screws and lockwashers. Repeat this procedure on the other side.

2. Replace the metric cap screw in the oil filter bracket with the spacer bushing, (1) Figure 17, and the metric cap screw, (2)

NOTE: The spacer and bolt must be in place on the oil filter bracket before installation of the reinforcement plates.

3. Mount the reinforcement plate as shown in Figure 17, to the tractor bumper. Secure the plate except for bolt, (6) Figure 17.

4. Install the front mounting assembly to the tractor bumper, Figure 18, at the front with two 5/8" x 1-1/2" NC cap screws, lockwashers and nuts. Secure the sides and the reinforcement plates with the previously omitted bolts, (6) Figure 17, to the tractor bumper.

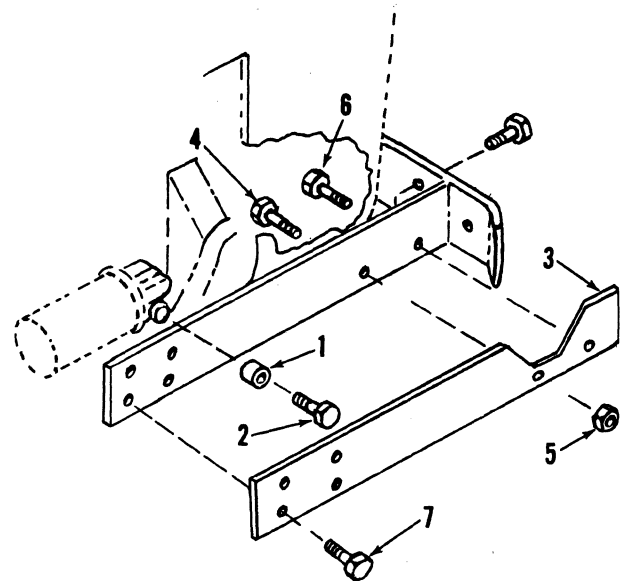


Figure 17
Reinforcement Plate Mounting

5. Mount the side frames to the frame supports, Figure 16, with three 5/8" X 1-1/4" NC cap screws, lockwashers and nuts on each side.
6. Attach the side arms in front to the front mounting assembly with one 5/8" X 1-1/2" NC cap screw, lockwasher and nut to each side.

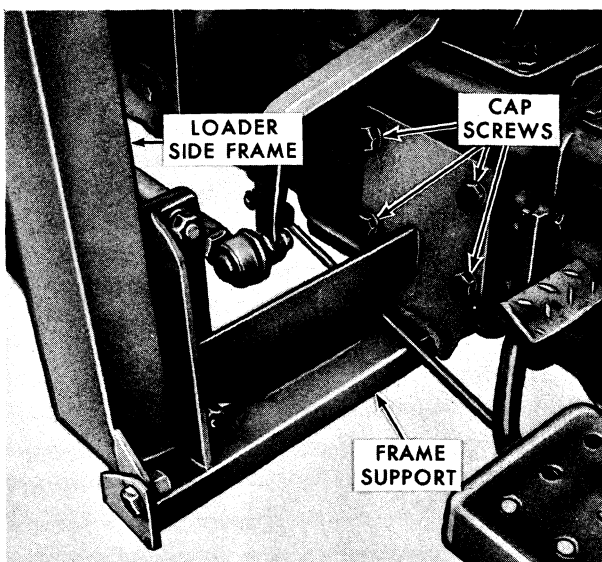


Figure 16
Loader Mounting
(Left Side)

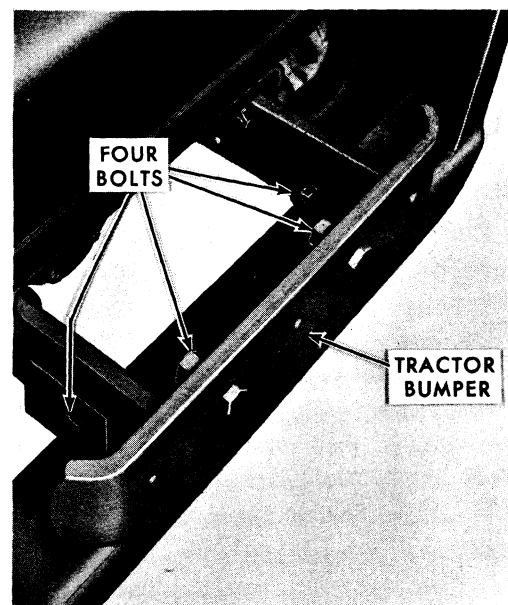


Figure 18
Loader Front Mounting

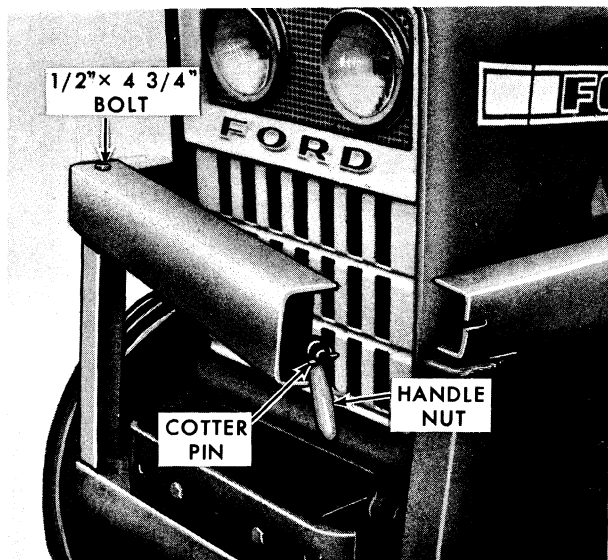


Figure 19
Bumper Spacer Mounting

7. Install the front bumper spacer, Figure 19, to the right side frame with a 1/2" X 4-3/4" cap screw and locknut. At the left, insert the 7/16" X 3" carriage head bolt through the square hole in the bumper spacer, threading the handle nut on the bolt. Insert the cotter pin through the hole in the carriage head bolt to prohibit handle nut removal.
8. Install the loader arms to the side frames with 1" X 3-3/8" long pins as illustrated in Figure 20. (One on each side).

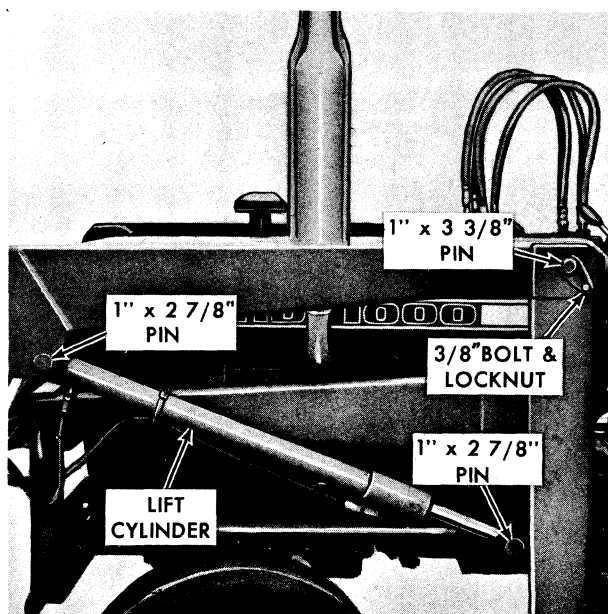


Figure 20
Loader Arm Installation

9. Install the lift cylinders, Figure 20, between the loader arms and loader frame. Secure the cylinder ends to these members with the 1" X 2-7/8" pins and secure the pins with the 1/4" X 1-1/2" cotter pins.

NOTE: Further assembly will vary depending on the unit purchased. There are two choices, standard and deluxe. Follow those instructions pertaining to your loader.

STANDARD MODEL

The standard loader is equipped with single-acting lift cylinders and a mechanical bucket trip mechanism.

Refer to Figure 21 for the following steps:

1. Mount the mechanical trip latch on the bucket with four 1/2" - 13 X 1" bolts finger tight.
2. Attach the bucket to the loader arms using the 1" X 3-3/8" pins provided. Use a 3/8" screw and lock nut to secure the pin.
3. Mount the mechanical trip catch with four 1/2" - 13 X 1" bolts finger tight, on the loader arms.
4. Position the latch and catch to where they engage freely and secure well. When the proper combination is reached in the positioning, tighten all the bolts securely.
5. Install a 1" X 3-3/8" pin through the upper bucket installation hole and through one end of the large spring. Secure the pin with the 3/8" X 5/8" screws. Attach the other end of the spring to the loader arms.
6. Attach the trip line to the catch mechanism. Insert the guide pulley and thread the line through it.
7. Secure the handle, Insert, Figure 20, to the trip line.
8. Mount the hydraulic tube on the inside of the loader arms with the four clamps. Use 3/8" - 24 X 1" bolts to secure the clamps. Finger tighten until the proper positioning is obtained then tighten the clamps. See Figure 21.

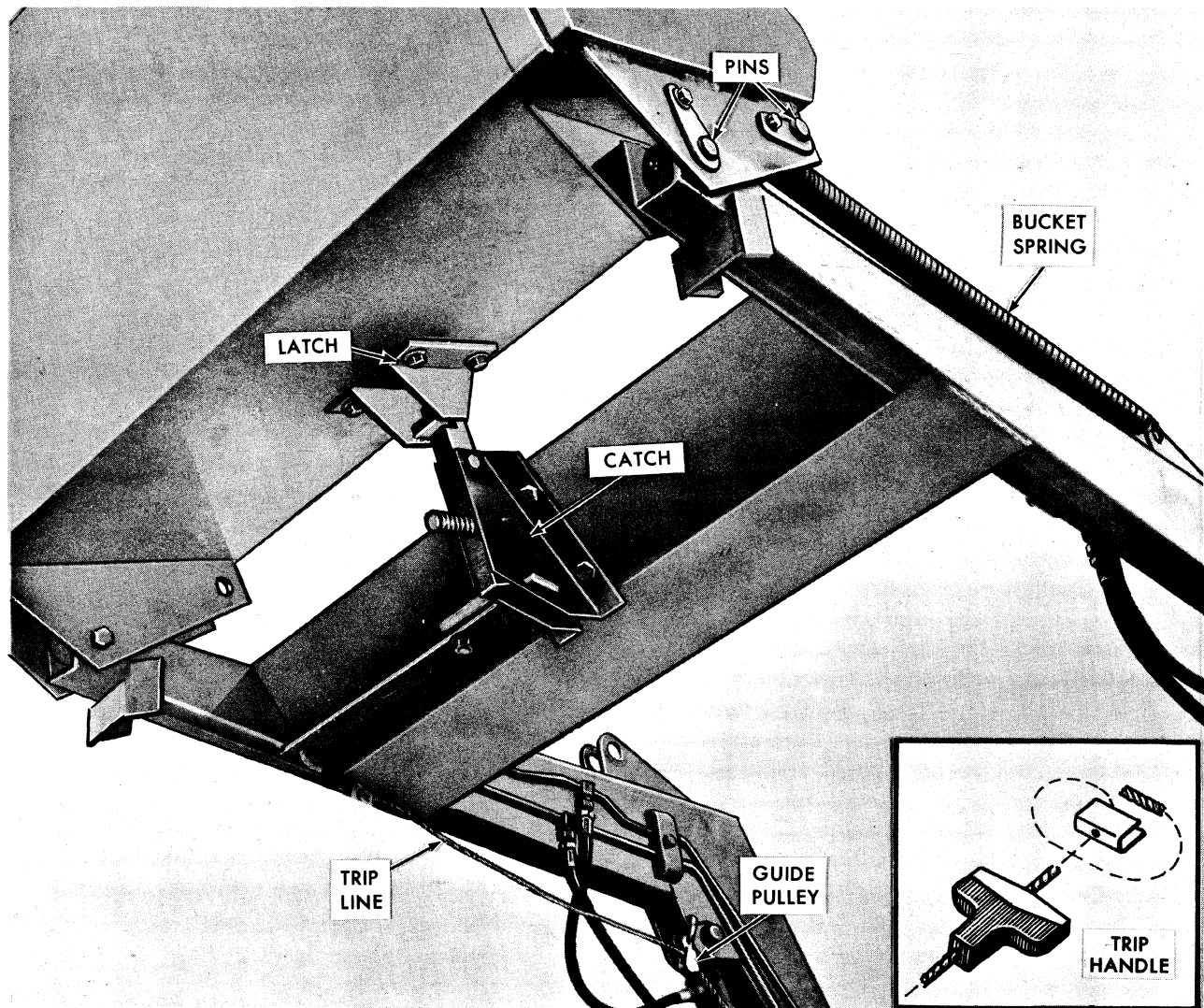


Figure 21
Mechanical Trip Mounting

9. Attach the two hoses to the piston end of the cylinders and to the swivel fittings on the hydraulic lines, Figure 21, on both sides.

Remote Valve Mounting

NOTE: The remote valve is a tractor accessory and must be used with the standard model loader.

- Remove the cover plate on the hydraulic control valve and install the remote control valve, Figure 22, making sure the four "O" rings are in place on the valve ports. Insert the three bolts provided with the

remote valve and tighten securely.

- Install the 90° swivel fitting and hose to the remote valve as shown in Figure 23. Connect the other end of the hose to the hydraulic tube fitting. Secure the hose clamps utilizing the existing bolts. Figure 23.



CAUTION: Make sure all bolts and fittings are tight before tractor operation.

- Start the tractor and actuate the control lever, raising the loader arms, then lowering several times to purge the air from the hydraulic system.
- Recheck oil level in the tractor hydraulic system and add oil if necessary.

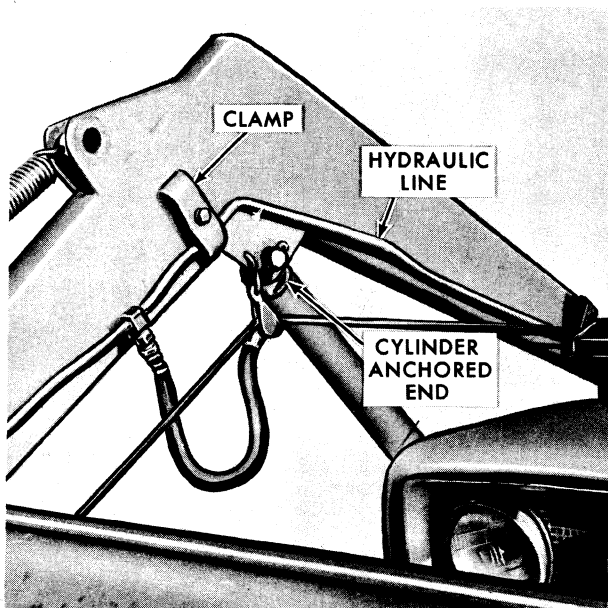


Figure 22
Hydraulic Tube Mounting

DELUXE MODEL

1. Install the 1" X 2-7/8" pins through the loader arms and bucket cylinder ends as shown in Figure 24 and secure the pins with 1/4" X 1-1/2" cotter pins.
2. Attach the loader hydraulic tubes, in position, to the loader lift arms as shown in Figure 24, with the clamps provided. Use the 3/8" X 24 X 1" bolts provided to secure the clamps to the lift arms.

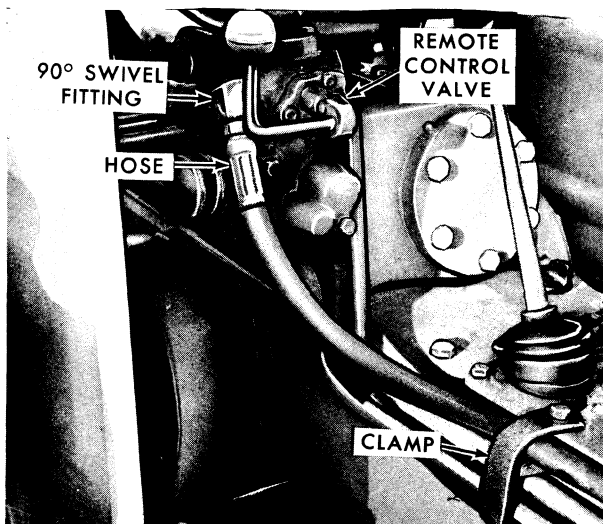


Figure 23
Valve and Hose Mounting

NOTE: Refer to Figure 25 for the following assembly instructions.

3. Install the mounting bracket (14) to the loader frame with the U bolt (16), washers (17) and nuts (18).
4. Slide the valve mounting bracket (13) into the tube on the mounting bracket (14) and tighten the screw (15) securing the valve mounting bracket - - plate to top.
5. Attach the loader valve (9) to the valve mounting bracket (13) with three 1/4" - 20 X 1-1/4" bolts, lockwashers and nuts.
6. Install the two street elbows (8) in the loader valve (9). It is recommended that pipe compound be used to obtain a good seal.
7. Attach the four 3/8" X 30" hydraulic hoses (19) to the loader valve (9) and to their respective hydraulic tubes.

IMPORTANT: Be sure all the hydraulic hoses are attached properly.

8. Remove the top cover plate from the hydraulic system control valve and install the adaptor block kit (1). Make sure the four "O" rings (2) are in place. Tighten the two 9/16" X 3/8" swivel union adaptors (3) in place.

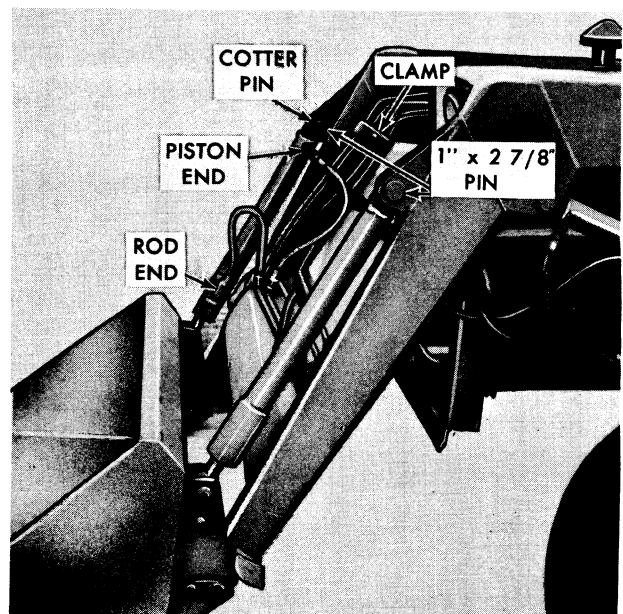


Figure 24
Bucket Cylinder Installation

9. Connect the 3/8" X 90° swivel adaptor unions (4) to the swivel union adaptors (3). A pipe sealing compound is not necessary on the swivel fittings. However, tighten the fittings securely.
10. Attach the reducer bushing (7) to the street elbow (8) on the loader valve (9).
11. The two 3/8" X 66" hoses (6) are to be connected at the reducer bushings (7) first, then to the swivel fittings (4) on the adaptor block, and tightened securely. Also fasten the hose clamps (5) utilizing the existing tractor housing bolts as illustrated.
12. Connect a 3/8" X 38" hose (20) to the piston end of the lift cylinder and to the second lowest hydraulic tube. Secure the hose to the lift cylinder with the large diameter hose clamp.
13. Connect a 3/8" X 19" hose (21) to the rod end of the lift cylinder and the other end to the lowest hydraulic tube. Repeat the preceding two steps to install the other lift cylinder.

14. To attach the bucket cylinders to the hydraulic system, connect the two 3/8" street elbows provided, to the piston end of the tilt (bucket) cylinders.
15. Install the 3/8" X 19" hoses in the street elbows. On the piston end of the bucket cylinders and to the second hydraulic tube swivel fittings. Tighten securely.
16. Attach the 3/8" X 19" hoses to the rod end of the bucket cylinder then to the top set of hydraulic tube swivel fittings. Tighten securely.
17. Attach the 3/8" X 19" hoses to the rod end of the bucket cylinder then to the top set of hydraulic tube fittings from the top.

IMPORTANT: Recheck making sure the hydraulic hoses are connected correctly.

NOTE: Start the tractor and actuate both control levers (raising and lowering - roll back and dump) several times, to purge air from the hydraulic system. Check for leaks. Recheck oil level in the tractor hydraulic system and add oil if necessary.

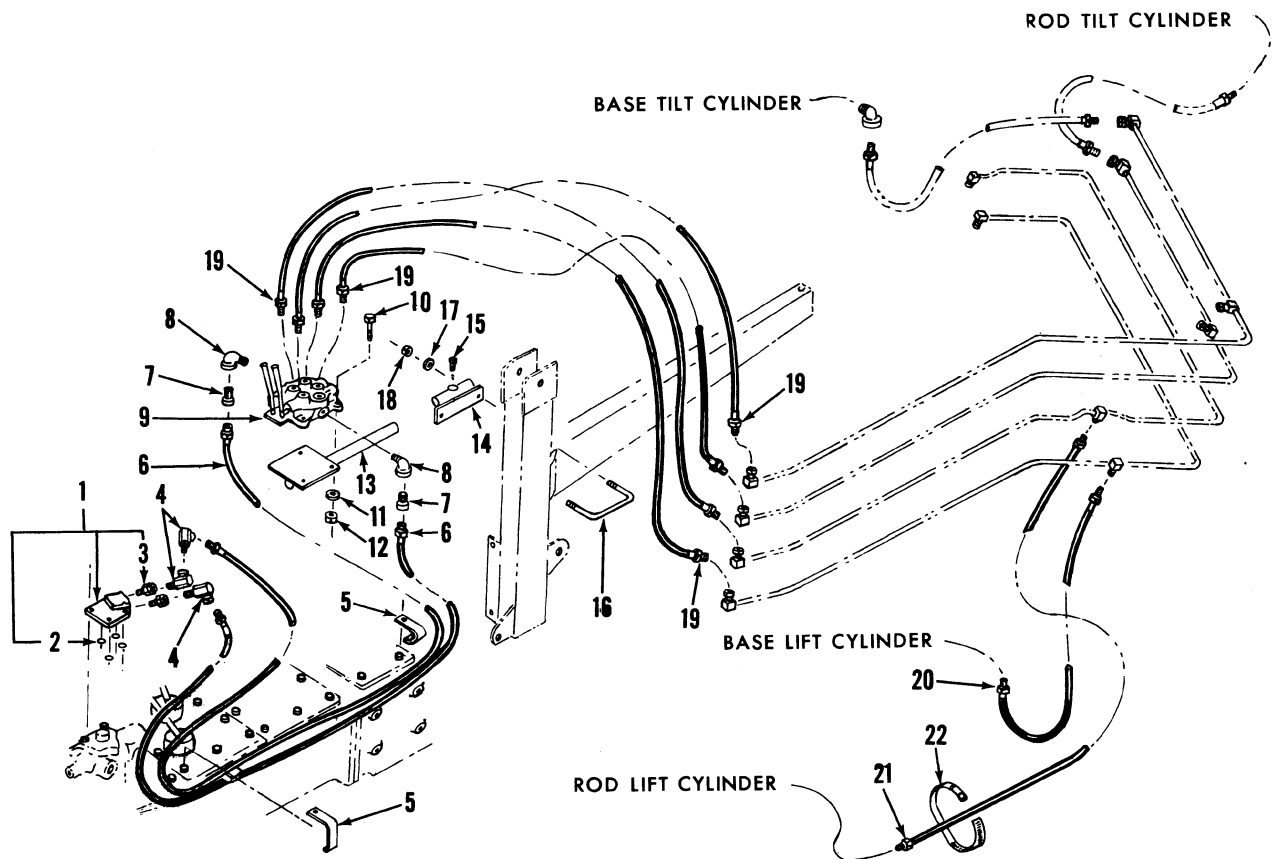


Figure 25
Deluxe Hydraulic Mounting

SPECIFICATIONS

Loader Operation

Lift Height87 inches
Bucket Clearance Dumped70 inches
Reach at Maximum Lift 30 inches
Lift Capacity - Full Height700 pounds
Break away Capacity 1,600 pounds
Raising Time to Full Height 5 seconds
Lowering Time - (No Load)
 Double Acting Lift Cylinders 3 seconds
 Single Acting Lift Cylinders 1-1/2 seconds

Bucket Operation

Roll Back 3 seconds
Dump
 Double Acting Bucket Cylinders 4 seconds
 Mechanical TripVaries with load

*whatever your service needs ...
whatever your parts or accessories
requirements... your Ford Tractor
and Equipment Dealer is equipped
to serve you better... for less !!!*



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