

DEARBORN

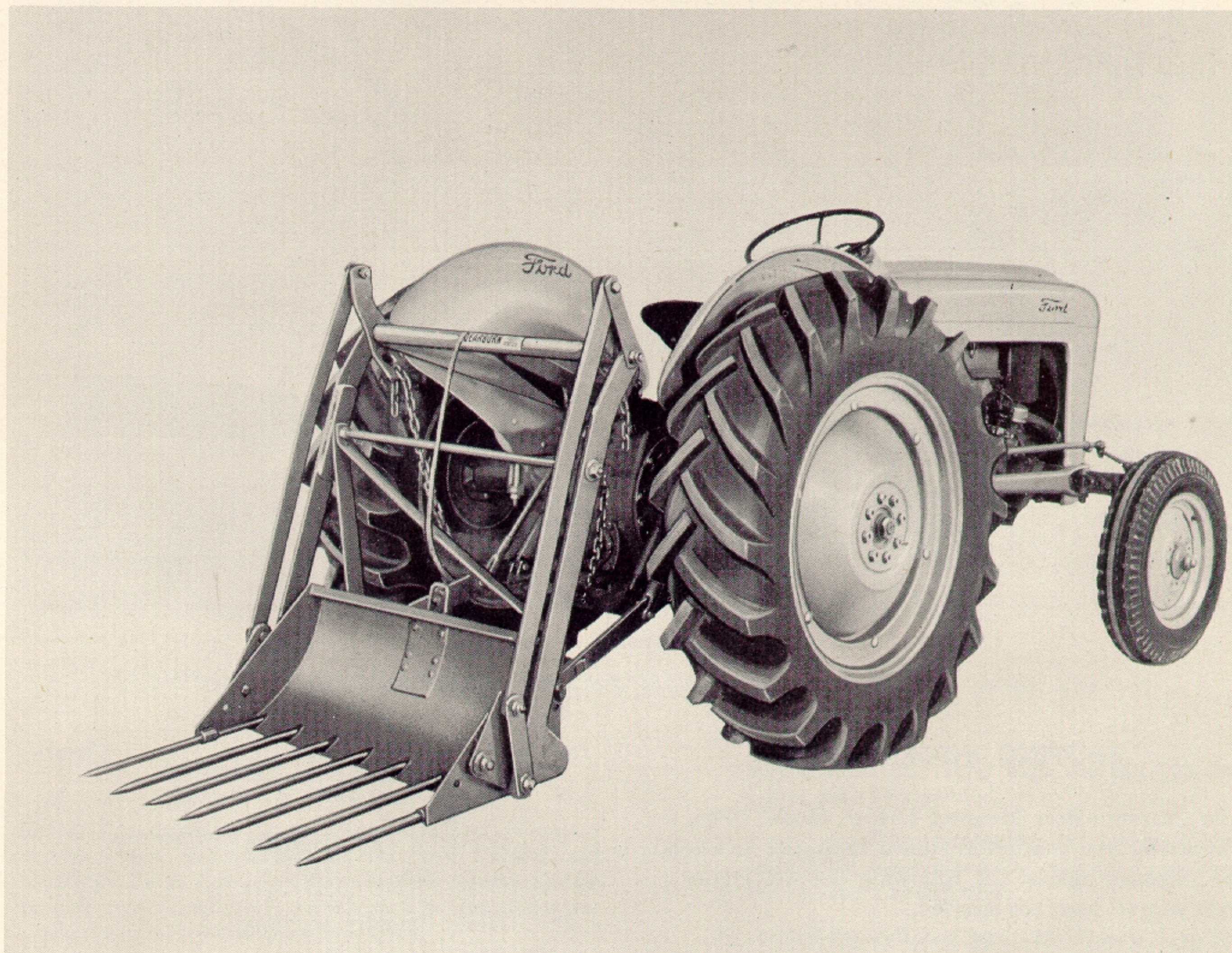


# REAR MOUNTED LOADER



MODEL 19-65

## ASSEMBLY AND OPERATING INSTRUCTIONS



The Dearborn Rear Mounted Loader, Model 19-65, is built to the high quality standards required of all Dearborn Farm Equipment. Engineered for farm use, it is a well constructed, easily operated implement. The main frame and loader lift arms are constructed of high carbon steel to assure long life and dependable service. The loader has a lift capacity of 1100 pounds breakaway load and a maximum extended lift capacity of 460 pounds. The heavy, steel welded fork is

controlled by means of a manual trip and automatically returns to the locked position when dumped.

The loader is designed especially for the Model NAA Ford Tractor and can easily be attached without the use of special tools.

This manual contains information on the assembly, lubrication and general operation of the Dearborn Rear Mounted Loader. Read it carefully and keep it available for ready reference.

**DEARBORN MOTORS CORPORATION**

**BIRMINGHAM, MICHIGAN**

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# REAR MOUNTED LOADER

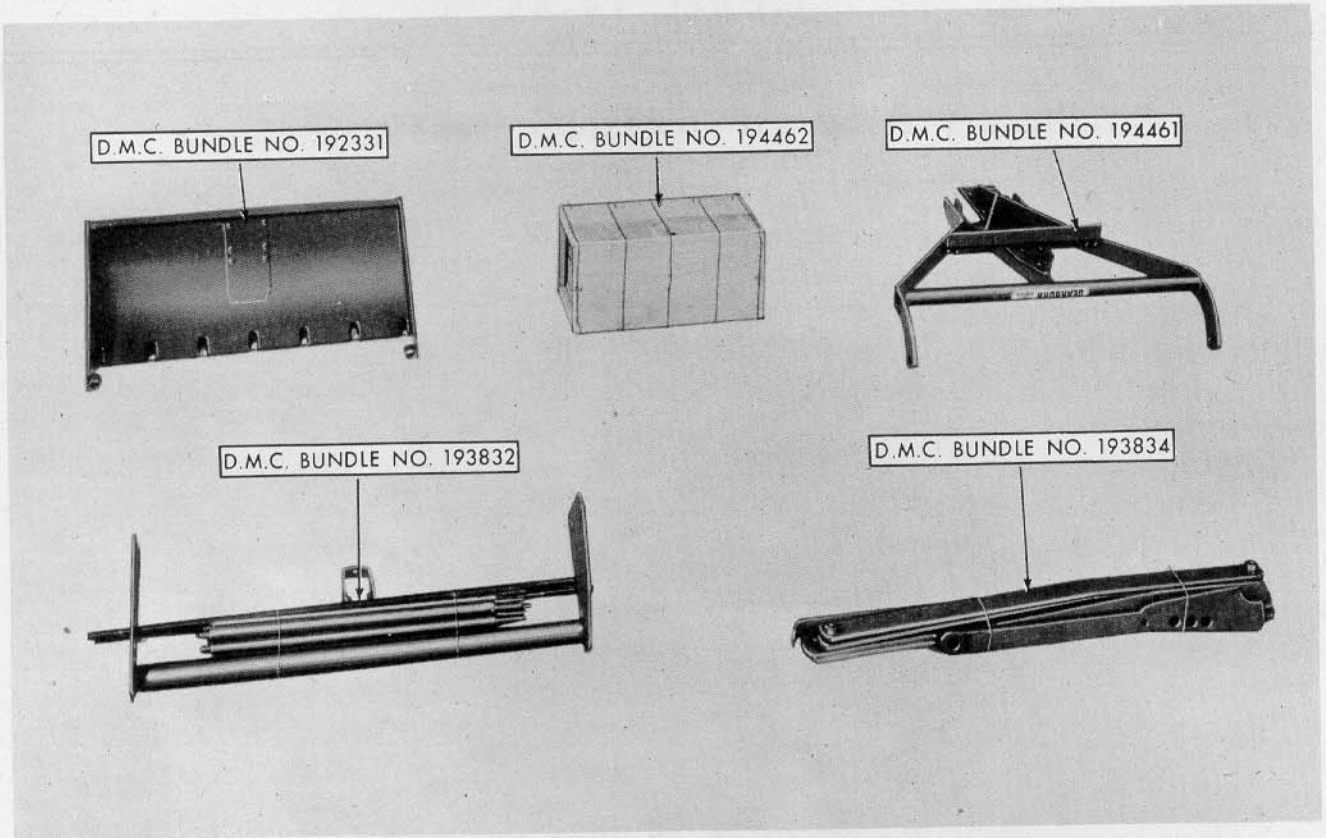


Figure 1

Rear Mounted Loader Bundled for Shipment

## SHIPPING INFORMATION

The Dearborn Rear Mounted Loader, Model 19-65, is shipped in five bundles as shown in Figure 1. Check the shipment against the following list and Figure 1 to be sure all parts are received.

D.M.C. Bundle No.	Description
192331	Fork Assembly.
194462	Box of miscellaneous parts.
194461	Upper Link Frame Assembly and Cylinder Bracket wired together.
193832	Fork Cradle Assembly, including Tines and Rods.
193834	Control Arms and Lifting Strut Members wired together.

The contents of the box (D.M.C. Bundle No. 194462) are listed below and shown in Figure 2.

Item	Description	Quantity
A	Links, Upper and lower locking.....	4
B	Assembly and Operating Instructions ..	1
C	Rope, Manual trip .....	1
D	Hose, Cylinder coupling .....	2
E	Hanger, Pipe .....	1
F	Ell, Street, 3/8" x 90° .....	1
G	Ell, Union Street, 3/8" x 90° .....	1
H	Link, Chain attaching .....	2
I	Bag of small parts .....	1
J	Tee, 3/8" .....	1
K	Chain, Attaching link stop .....	2
L	Pipe, Connector, R.H. ....	1
M	Pipe, Connector, L.H. ....	1
N	Pipe, Main hydraulic .....	1
O	Cylinder, Hydraulic booster .....	2

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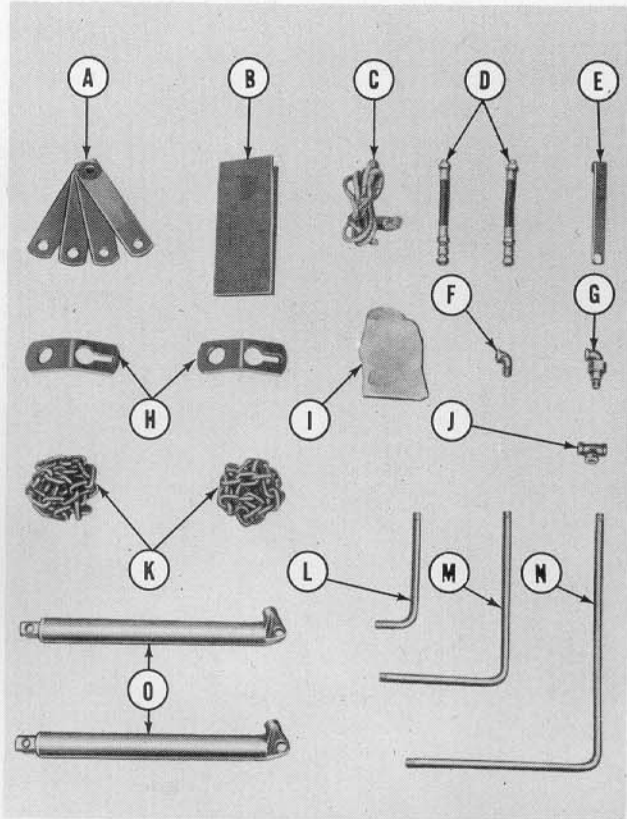


Figure 2

Contents of Shipping Box

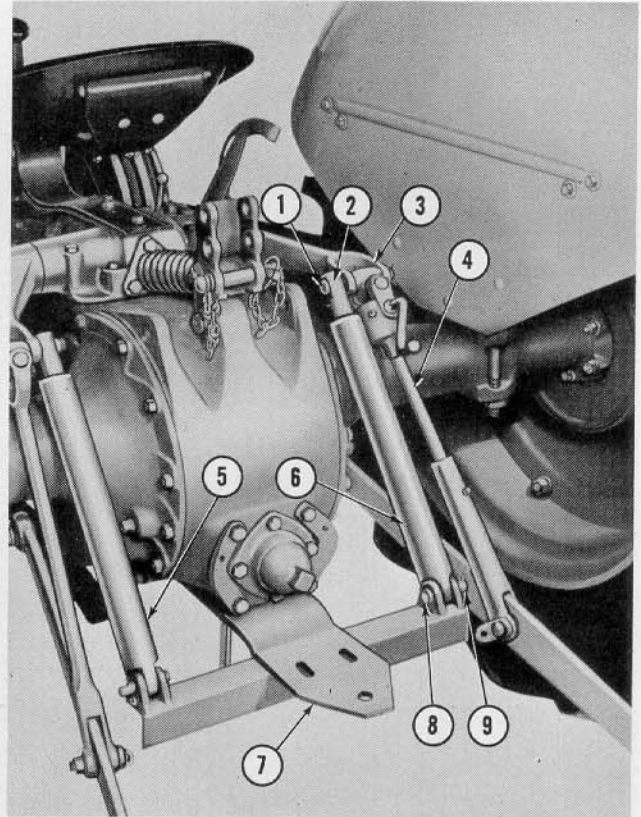


Figure 3

Hydraulic Booster Cylinder Attached

## ASSEMBLY PROCEDURE

**NOTE:** The assembly of the Dearborn Rear Mounted Loader is the responsibility of the Ford Tractor and Dearborn Farm Equipment dealer. The loader should be delivered completely assembled. The following instructions are provided in case of need.

1. Cut and remove the wires from all of the bundles and lay out the parts to facilitate assembly.
2. Install the cylinder bracket and hydraulic cylinder boosters on the tractor as follows:
  - a. Remove the tractor check chains as shown in Figure 3. These chains cannot be used on the tractor when the Rear Mounted Loader is installed.
  - b. Remove the tractor drawbar clevis assembly and attach the implement hitch plate (7), Figure 3, to the tractor with the four lock-washers and bolts (10), Figure 4.
  - c. Position the right hydraulic cylinder (6), Figure 3, on the cylinder bracket as shown, and

secure it to the clevis with the pin (8) and cotter pin (9) provided.

**CAUTION:** When mounting the hydraulic cylinders, do not remove the cylinder rams from the cylinders at any time.

- d. Attach the cylinder ram (2), Figure 3, to the right hand tractor lift arm (3) and the lift rod (4) with the long pin (1) and secure with a cotter pin as shown.
  - e. Attach the left hydraulic cylinder (5), Figure 3, in the same manner as outlined in steps (c) and (d) for the right cylinder.
3. Attach the hydraulic lines to the cylinders as follows:
    - a. Attach the two hydraulic hoses (9) and (11), Figure 4, to the pipe tapped holes at the base of each hydraulic cylinder.

**NOTE:** To avoid leaking joints in the loader hydraulic lines and fittings, coat all threads with plumber's compound and tighten securely.

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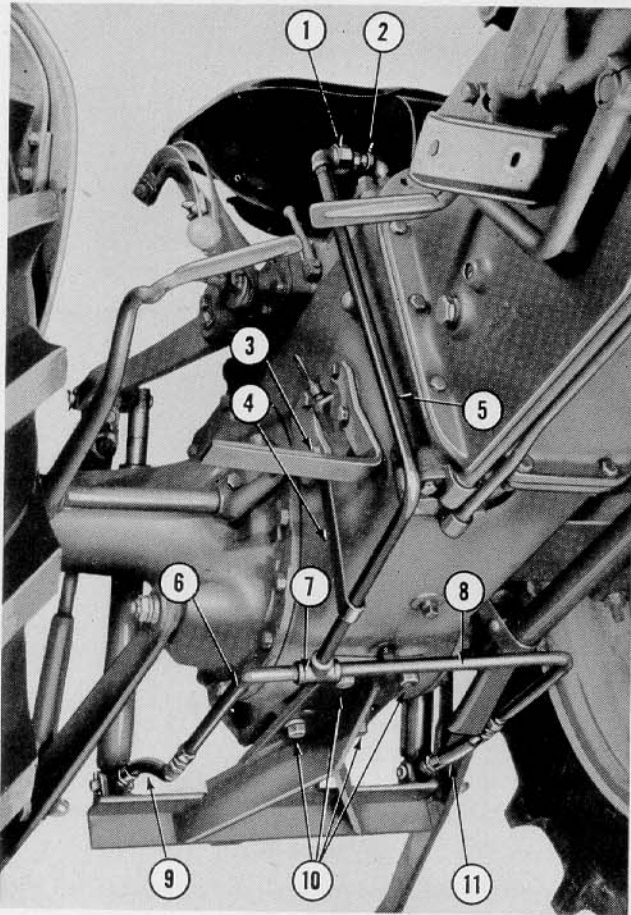


Figure 4

Hydraulic Lines Attached

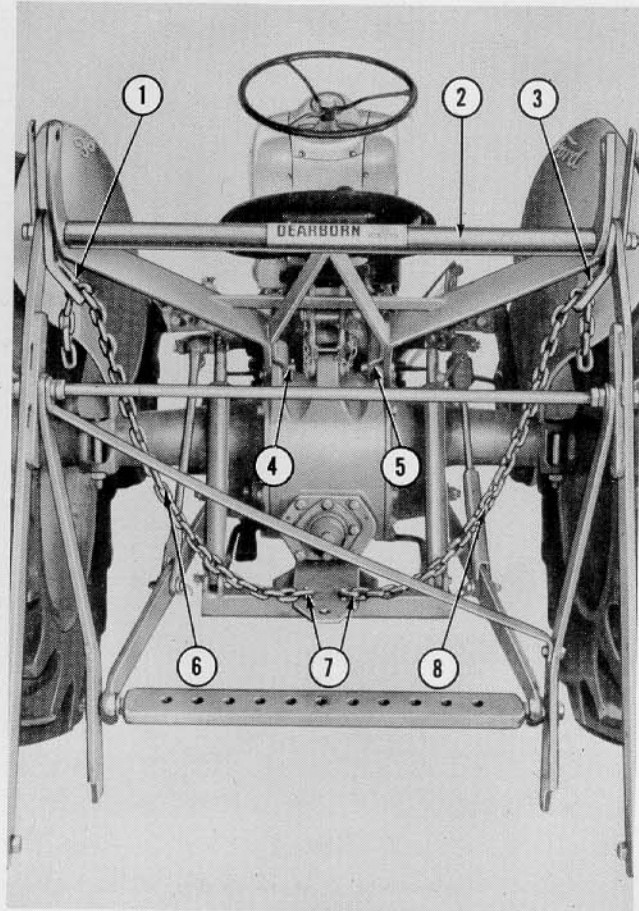


Figure 5

Lift Struts Installed

- b. Assemble the left and right pipes (6) and (8), Figure 4, to the tee (7). Next, attach the main hydraulic pipe (5) to the tee (7), and the union street ell (1) to the top of the main pipe (5) as shown.

**CAUTION:** Before installing the hydraulic lines on the tractor, lower the Ford Hydraulic Touch Control Lever to the down position and be sure the tractor lift arms are completely lowered.

- c. Place a drain pan under the tractor to catch any oil leakage and remove the plug from the outlet in the hydraulic manifold plate (Part No. NAA-475-A). Coat the threads of the street ell (2), Figure 4, with pipe compound and turn it into the tapped hole in the manifold plate.
- d. Attach the pipe hanger (4), Figure 4, to the tractor right side as shown with the bolt (3) located on the tractor.

**NOTE:** The tractor right running board has been removed in Figure 4 for illustration purposes.

Complete removal is not necessary for installation of the hydraulic lines.

- e. Position the pipe assembly on the hanger (4), Figure 4, as shown and attach the free ends of the hoses (9) and (11) to the pipes (6) and (8). Connect the union street ell (1) and the street ell (2) and tighten securely.
4. Install the upper link frame, lifting strut assemblies, and lower control arms as follows:
  - a. Attach the two lifting struts (10) and (13), Figure 6, to the tractor drawbar as shown. Secure with the linch pins and turn the tractor leveling crank until the drawbar is level.
  - b. Assemble two nuts (4), Figure 6, on each end of the tie rod (5). Place a flatwasher (6) over the right end of the rod and place the cross brace (7) on the left end as shown. Position the tie rod between the lift struts (10) and (13), Figure 6, and secure the lower end of the brace (7) with the bolt (12) and nut provided.



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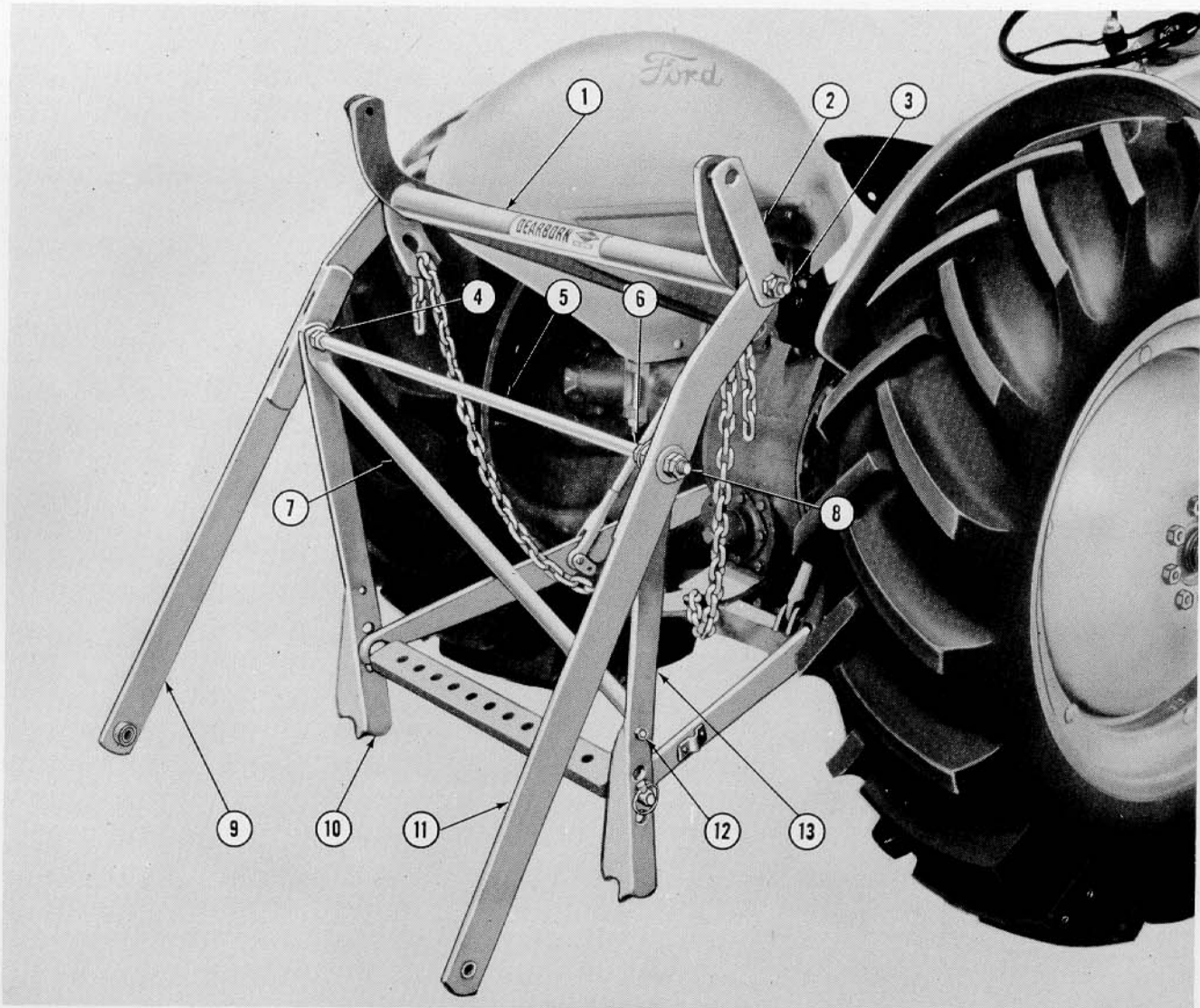


Figure 6

## Lift Arms Attached

- c. Place a  $1'' \times 1\frac{17}{16}''$  spacer over each end of the rod (5), Figure 6. Lubricate each spacer with a good grade of gun grease.
- d. Position the upper link frame assembly (2), Figure 5, on the tractor center housing as shown. Insert the right pin (5) and secure with the flatwasher and cotter pin provided. Insert the  $\frac{3}{4}'' \times 1''$  bushing in the left flange (4), Figure 5, and secure the assembly with the pin, flatwasher and cotter pin provided.
- e. Insert the threaded tie rod (3), Figure 6, through the upper frame assembly (1) and place a  $1'' \times 1\frac{17}{16}''$  spacer over each end of the rod. Lubricate each spacer with a good grade of gun grease.
- f. Place the two chain attaching links (1) and (3), Figure 5, over the spacers on each end of the upper tie rod (3), Figure 6.
- g. Position the two lower lift arms (9) and (11), Figure 6, on each end of the tie rods (3) and (8) as shown. Secure each end of the tie rod (5) with the flatwashers, nuts and jam nuts (8).
- h. Place the upper locking links (2), Figure 6, over each end of the upper tie rod (3) and secure with the nuts and jam nuts provided.

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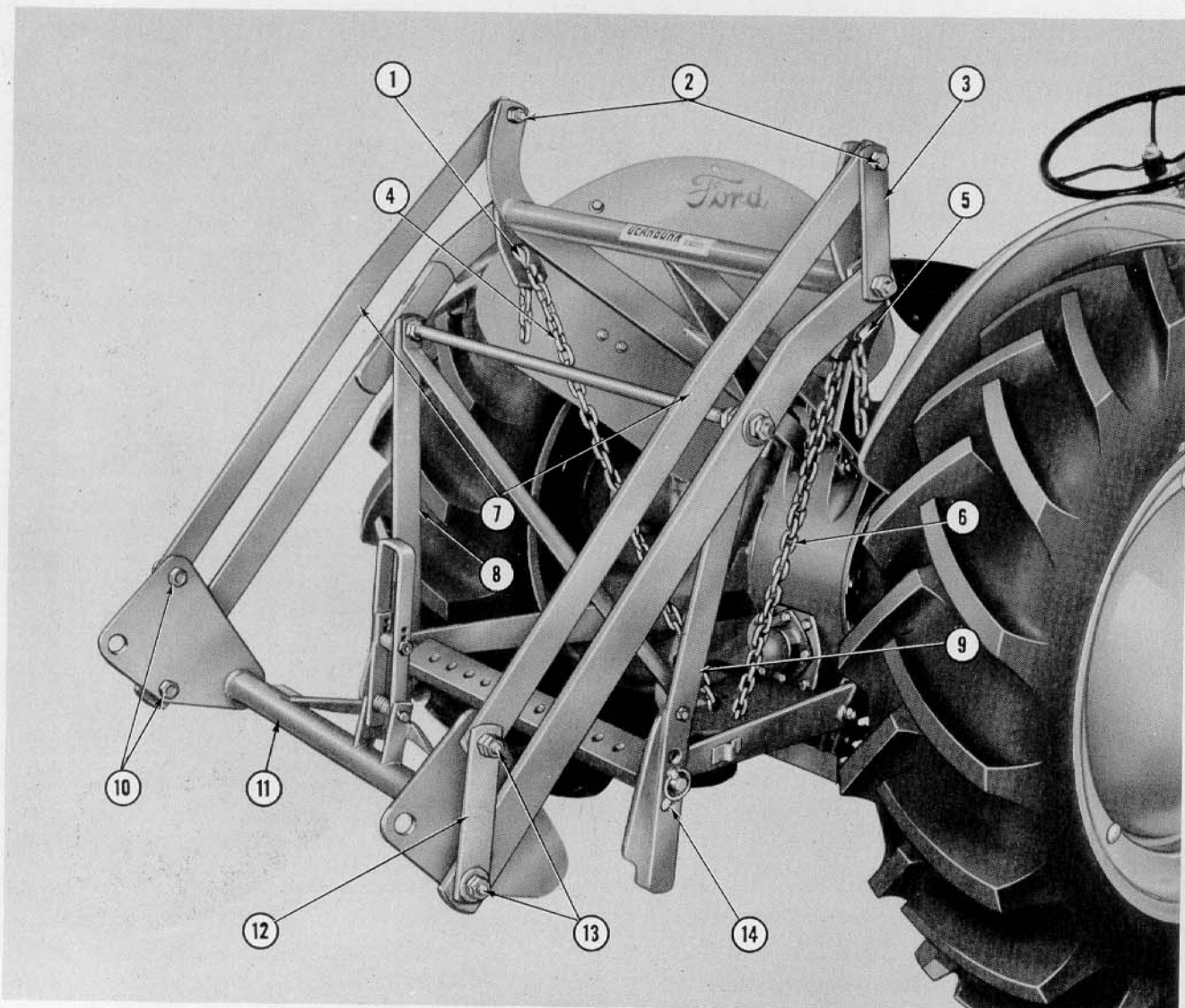


Figure 7

Fork Cradle Attached

5. Attach the two chains (6) and (8), Figure 5, to the cylinder bracket by inserting the lower links through the slots (7) and securing with the long pin and cotter pins provided. Attach the upper ends of the chains (6) and (8) through the slotted holes provided in the link brackets (1) and (3) as shown.
6. Install the upper lift arms and fork cradle assemblies as follows:
  - a. Insert the two bolts (2), Figure 7, and place a  $1\frac{3}{16}$ " x  $1\frac{1}{16}$ " spacer over each bolt. Lubricate each spacer with gun grease.
  - b. Place the upper lift arms (7), Figure 7, over the spacers as shown. Rotate each upper locking link (3) until the top holes align, then insert the bolts (2) and secure with the nuts and jam nuts provided.
  - c. Place the fork cradle assembly (11), Figure 7, between the left and right lift arms as shown. Insert the four bolts (10) and (13).
  - d. Place a  $1\frac{3}{16}$ " x  $1\frac{1}{16}$ " spacer over each of the four bolts (10) and (13), Figure 7. Lubricate each spacer thoroughly with gun grease. Position a lower lock link (12) on each side of the assembly and secure with the nuts and jam nuts provided.

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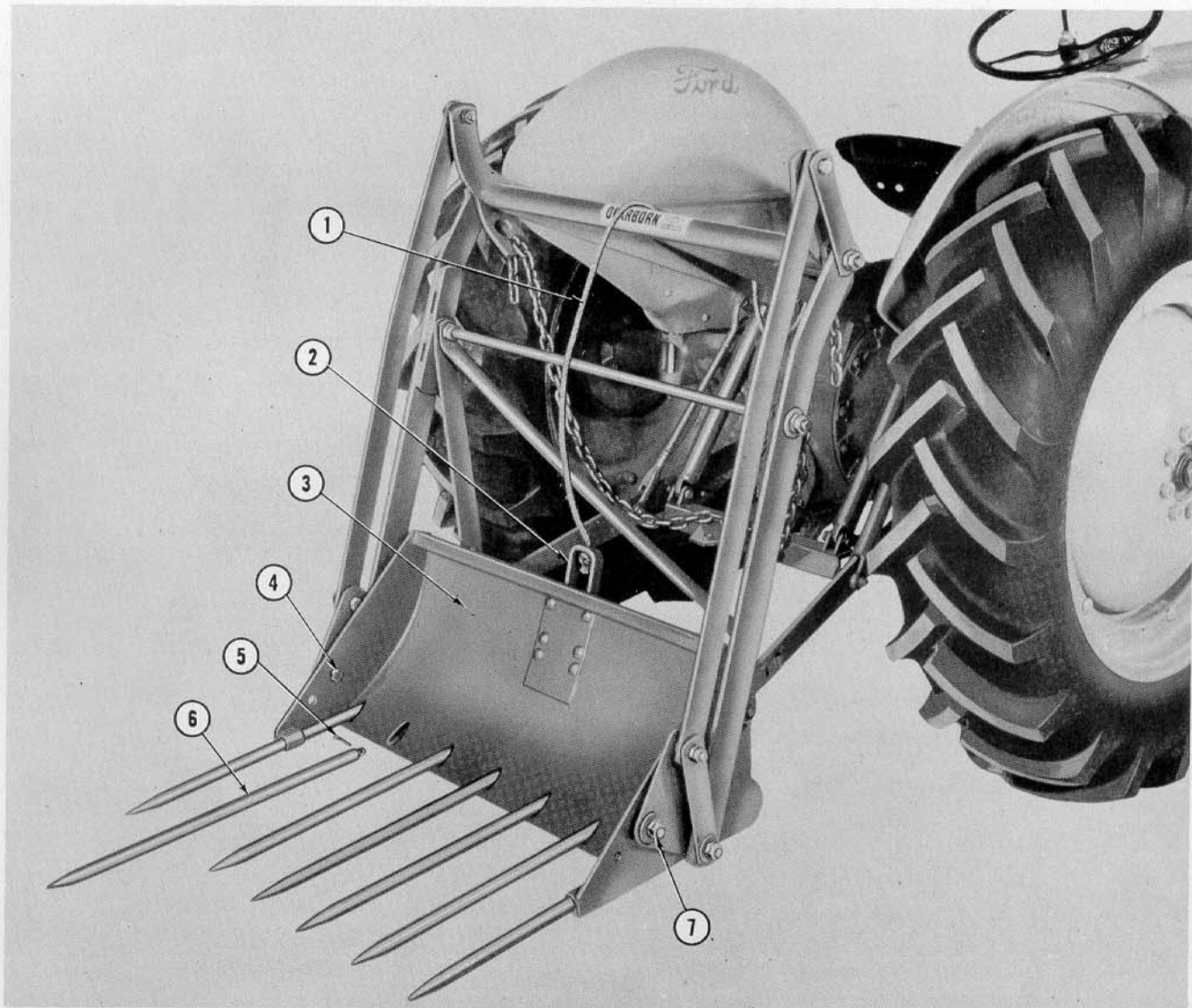


Figure 8

## Fork and Tines Assembled

7. Attach the fork assembly, tines, and fork trip rope as follows:
  - a. Position the fork (3), Figure 8, in the cradle assembly as shown.
  - b. Insert the bolts (4) and (7), Figure 8, and place a  $1\frac{3}{16}$ " x  $1\frac{1}{16}$ " spacer over each bolt. Lubricate each spacer with a good grade of gun grease. Secure each with the flatwashers, nuts and jam nuts provided.
  - c. Insert the seven tines (6), Figure 8. Secure each tine at the rear of the fork with the cotter pins (5) provided.
  - d. Attach the trip rope (1), Figure 8, to the latch assembly (2). Secure the other end of the rope to the tractor within easy reach of the operator.



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Figure 9

*Dearborn Rear Mounted Loader in Operation*

## OPERATION

The Dearborn Rear Mounted Loader is designed primarily for the loading of manure, however, it is a versatile implement capable of performing many time and labor saving jobs on the farm. Like all other implements, the results obtained in their use is dependent upon the "know how" of the operator.

The loader should be operated at moderate tractor speeds to avoid spillage and loss of control. The tractor engine speed should be between 1200 to 1500 R.P.M. and the tractor operated in reverse, first, or second gear. It is preferable to operate the loader with the Ford Tractor hydraulic mechanism in Implement Position Control. The fork is raised or lowered by means of the Ford Tractor Hydraulic Touch Control Lever. To trip the fork, pull the manual release rope. As the load is dumped, the fork will auto-

matically return to the latched position.

With the loader in the lowest position, back straight into the pile when crowding a load into the fork. Do not overtax the loader by trying to fill the fork on each initial approach, as this will result in less efficiency. Load the fork with short rearward thrusts and raise the fork slightly each time.

Front tractor wheel weights are not necessary, however under maximum loadings, they will improve steering.

When using the Dearborn Rear Mounted Loader to handle material other than manure, a Material Plate, Model 19-41, is available at additional cost, and can be easily installed over the tines of the manure fork.

## LUBRICATION

There are no pressure fittings on the Dearborn Rear



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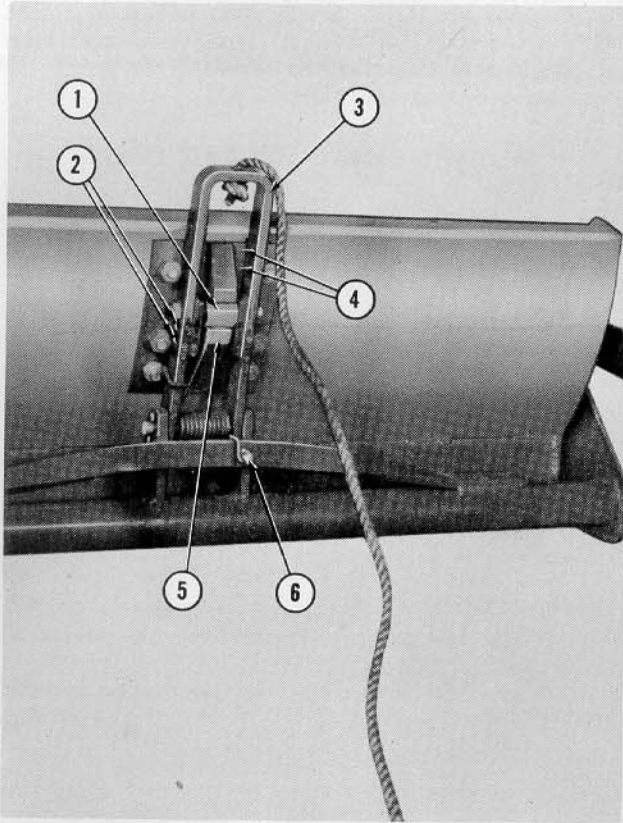


Figure 10

Fork Latch Adjustment

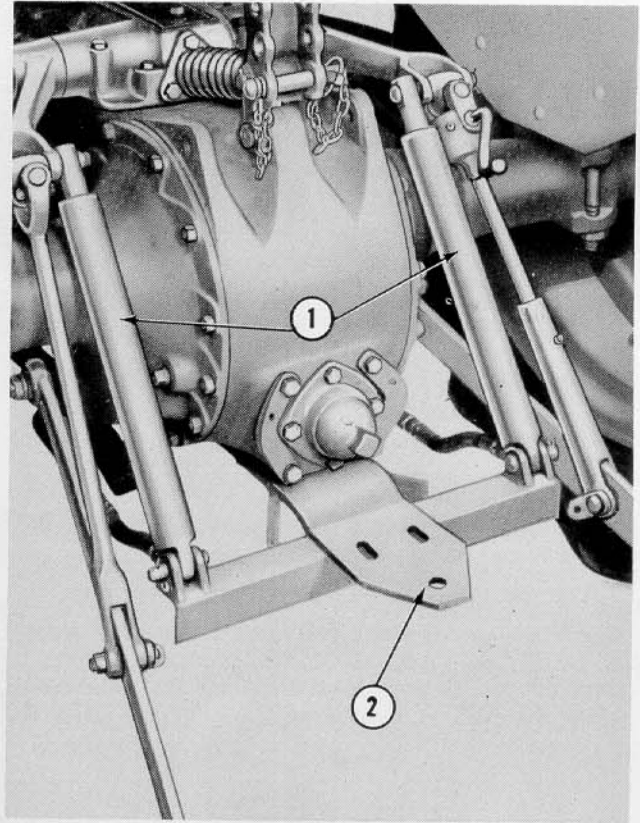


Figure 11

Hydraulic Cylinders

Mounted Loader. It is recommended that all critical moving parts, such as each pivot point, be lubricated periodically.

## ADJUSTMENTS

One of the important factors in the operation of the loader is that of proper adjustment. The operator, therefore, must become thoroughly familiar with each adjustment so that the desired results are obtained. The adjustments on the Dearborn Rear Mounted Loader are easily understood; however, due to the mechanical linkage involved, each adjustment made also has some effect on the other adjustments.

**BREAKAWAY HEIGHT:** Breakaway height is the height at which the fork is raised vertically from the ground before the loader lift arms swing rearward. This height can be adjusted by lengthening or shortening the link stop attaching chains. To increase the breakaway height of the fork, increase the length of each link stop attaching chain (4) and (6) at the brackets (1) and (5), Figure 7, until the desired breakaway height is obtained. Both chains should always be adjusted to the same length.

**NOTE:** As the above breakaway height adjustment is made, the maximum dumping clearance is somewhat

reduced. (See below.)

**DUMPING CLEARANCE:** The dumping clearance is affected by two adjustments. To increase the dumping clearance, position the loader lift struts (8) and (9), Figure 7, in one of the two lower holes (14) provided. If additional dumping clearance is desired, shorten the stop link attaching chains (4) and (6), Figure 7, however this will decrease the fork breakaway height.

**NOTE:** As the above dumping clearance adjustment is made, the level at which the fork will drop below the surface of the ground is affected.

**DEPTH:** To obtain maximum depth, position the loader lift struts (8) and (9), Figure 7, in the top hole of the three holes (14) provided. This adjustment will increase the depth, however the dumping clearance will also be decreased.

**PITCH:** The angle of the tines in the fork can be adjusted by changing the position of the latch roller (1), Figure 10. To decrease the angle of the fork, remove the roller and reattach the assembly in one of the two lower holes (2), Figure 10, provided. Adjust the set screw (6) so that the latch assembly (3), touches the bucket latch plate at the points (4). Secure the set screw (6) with the locknut provided.



# REAR MOUNTED LOADER

## DETACHING

The Dearborn Rear Mounted Loader can easily be detached from the tractor in a few minutes. The hydraulic booster cylinders (1), Figure 11, and bracket (2) may be left on the tractor except when using the Side Mounted Mower or Belt Pulley Assembly. To detach the loader:

- a. Lower the loader with the Ford Hydraulic Touch Control Lever until it is at the maximum down position.
- b. Remove the two attaching pins (4) and (5), Figure 5.
- c. Disconnect the two stop link chains (6) and (8), Figure 5, at the pin (7).
- d. Remove the bolt (12), Figure 6, and disconnect the loader lift struts from the tractor drawbar.
- e. Pull the loader free from the tractor.

## TRANSPORTING

When transporting the loader with the fork loaded or empty, the fork should be raised just above the level of the ground. Maximum stability is obtained when the fork is in this position. When using the

tractor with the loader attached, to pull a wagon or manure spreader to the field, raise the loader high enough to give clearance for attaching the tongue to the extended hitch (2), Figure 11.

## MAINTENANCE SUGGESTIONS

1. Clean the loader after each use and cover the tines with a good grade of rust preventive.
2. Lubricate the loader as directed in this manual. See page 8.
3. Store the loader in a clean, dry place on a wood or concrete floor if possible.
4. Use touch-up paint, as necessary, to prevent rust and maintain the appearance of the implement.
5. Your Ford Tractor and Dearborn Farm Equipment dealer stocks genuine Ford Tractor and Dearborn Farm Equipment repair parts. These parts are manufactured and inspected to assure high quality and accurate fit. Insist on genuine Ford Tractor and Dearborn Farm Equipment repair parts.

*NOTE: The following part numbers are subject to change and should be checked with your local Ford Tractor and Dearborn Farm Equipment dealer when placing orders.*

## SAFETY PRECAUTIONS

Most farm implement accidents can be avoided by following these simple precautions:

1. Do not permit anyone but the operator to ride on the tractor at any time.
2. Do not permit anyone to ride on the implement.
3. Always lower the loader to the ground when not in use.
4. The operator should never leave the tractor seat while the tractor is in motion.
5. Never make adjustments on the tractor or implement while the tractor is in motion.
6. Always shut off the engine when leaving the tractor.
7. Keep the tractor keys where they are not available to children.



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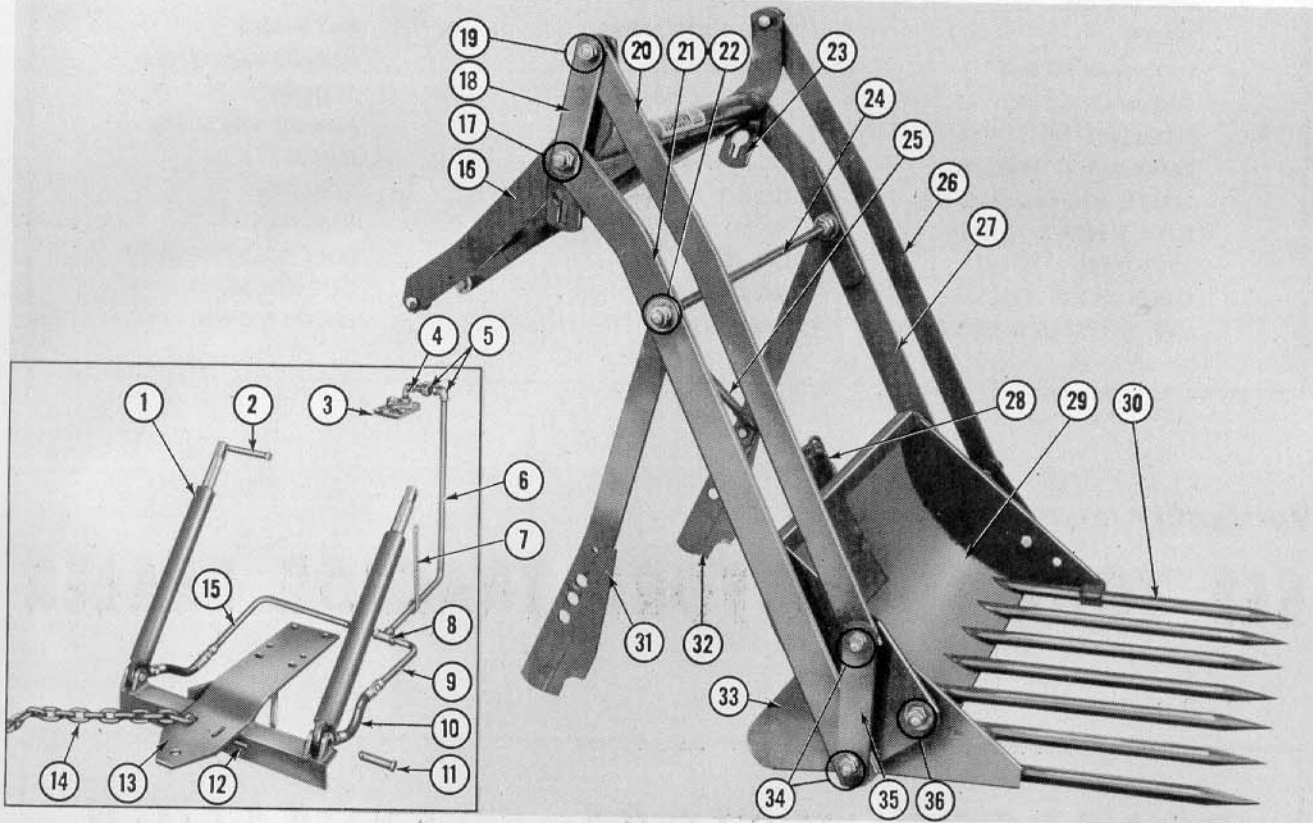


Figure 12

Dearborn Rear Mounted Loader

Item No.	D.M.C. No.	Description	Required
1	192456	Cylinder Assembly	2
2	192473	Pin, Cylinder to Tractor	2
3	NAA475-A	Plate, Hydraulic Manifold (Tractor Part)	1
4	304503	Ell, Street 3/8"	1
5	191164	Ell, Union, 3/8"	1
6	194453	Pipe, Main Hydraulic	1
7	194396	Hanger, Pipe	1
8	193658	Tee, 3/8"	1
9	194450	Pipe, Connector, R.H.	1
10	194455	Hose, Cylinder Coupling	2
11	74074-S	Pin, Cylinder to Bracket	2
12	194093	Pin, 3/8" x 4	1
13	194434	Bracket, Cylinder	1
14	193990	Chain, Attaching Stop Link	2
15	194451	Pipe, Connector, L.H.	1
16	192410	Frame Assembly, Upper Link	1
17	192430	Rod, Tie, Upper Link Frame	1
—	192427	Spacer, 3/4" ID x 1" OD x 1 1/16"	2
18	192391	Link, Upper Locking	2
19	—	Bolt, 5/8"-11 x 2 3/4" Hex Head	2

Item No.	D.M.C. No.	Description	Required
—	192426	Spacer, 5/8" ID x 1 3/16" OD x 1 1/16"	2
20	192385	Arm Assembly, Upper Control, L.H.	1
21	192370	Arm, Lower Control, L.H.	1
22	192405	Spacer, 3/4" ID x 1" OD x 1 7/16"	2
23	192424	Link, Chain Attaching	2
24	192430	Rod, Tie	1
25	192402	Brace, Lifting Strut Cross	1
26	192390	Arm Assembly, Upper Control, R.H.	1
27	192380	Arm, Lower Control, R.H.	1
28	192361	Yoke, Latch	1
29	192331	Bucket, Rear Mounted Loader	1
30	192342	Tine, Bucket	7
31	192395	Strut, Lifting, L.H.	1
32	192400	Strut, Lifting, R.H.	1
33	192350	Cradle, Bucket	1
34	—	Bolt, 5/8"-11 x 2 1/2" Hex Head, Cradle to Lift Arms	4
—	192426	Spacer, 5/8" ID x 1 3/16" OD x 1 1/16"	4
35	192392	Link, Lower Locking	2
36	—	Bolt, 5/8"-11 x 2 1/4" Hex Head, Cradle to Bucket	2
—	192428	Spacer, 5/8" ID x 1 3/16" OD x 7/8"	2