



# SERVICE MANUAL

Section 8\_\_\_\_\_

FRAME PARTS  
LOADER ASSEMBLY

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## 8-1. GENERAL

This section contains removal and installation procedures for those frame components which attach to the basic loader end frame and engine end frame.

Maintenance of the frame parts and loader assembly consists of periodic inspections for cracks and breaks in the welds, and fracture or bending of the frame structure. If any of these faults are found, they should be remedied at once.

## 8-2. ENGINE END FRAME PARTS

### A. Description and Function (See Figure 8-1)

All engine end frame parts are designed for accessibility for removal or replacement. All frame parts are fabricated from steel.

### B. Engine End Frame Parts Removal

Refer to subsection 3-8 of this manual.

### C. Engine End Frame Parts Installation

Installation of the engine end frame parts is basically the reverse of the removal procedures.

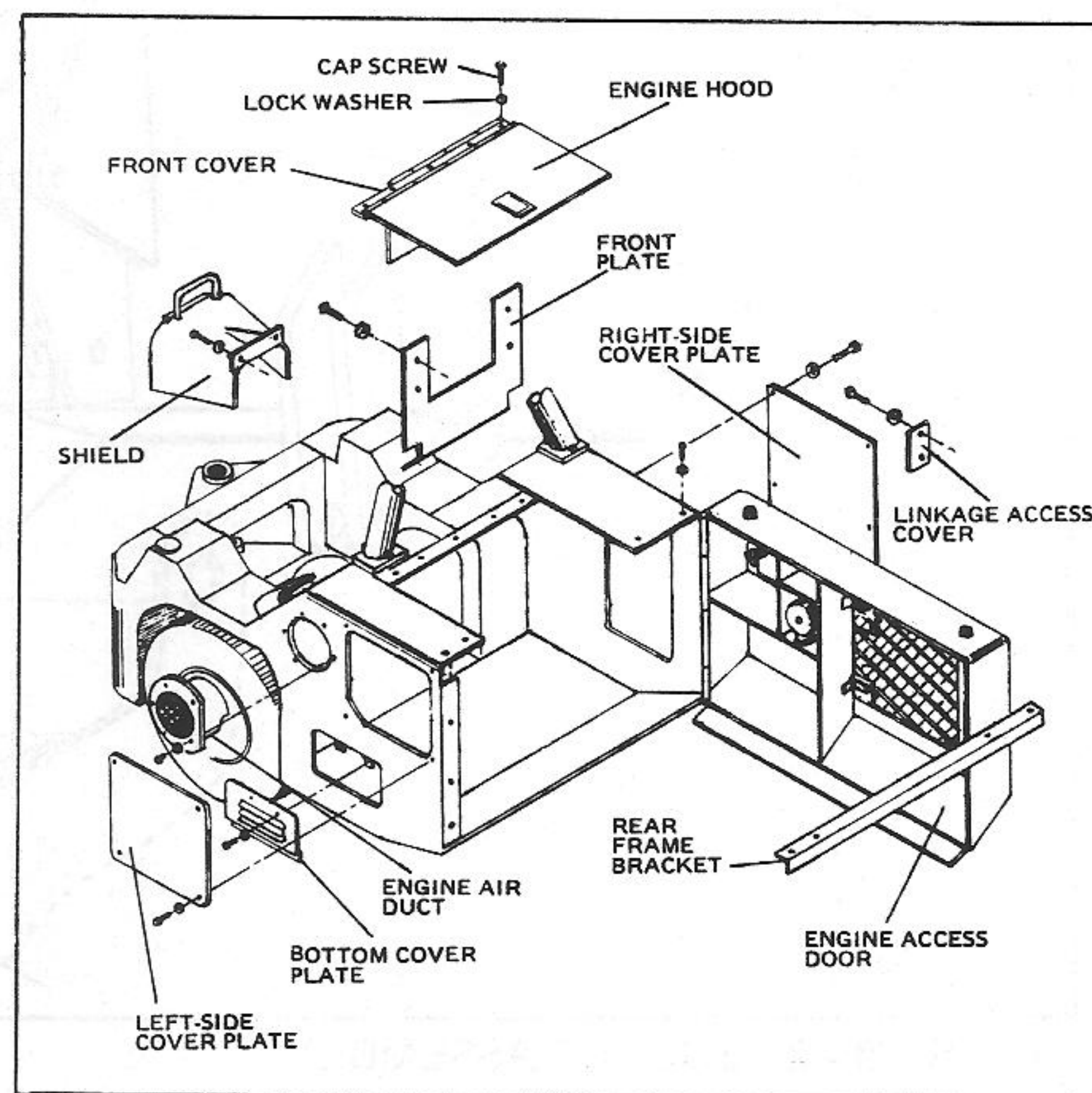


FIGURE 8-1. ENGINE END FRAME PARTS

## 8-3. BUCKET ASSEMBLY

### A. Description and Function (See Figure 8-2)

The bucket is utilized to scoop and carry material. The bucket is fabricated from steel and seam welded.

### B. Bucket Removal

(1) Park the machine in a straight line with the bucket under an overhead hoist.

(2) Apply the park brake.

(3) Lower the lift arms to the "carry" position and dump the bucket until it contacts the ground.

(4) Verify that the hydraulic system pressure is depleted, then disconnect, cap and tag the two hydraulic lines to the push-plate cylinder.

(5) With an overhead hoist, partially support the bucket to ease any stress on the bucket attaching pin assemblies.

(6) Remove the two pin assemblies that attach the bucket to the two dump links.

(7) Remove the two pin assemblies that attach the bucket to the lift arm.

(8) Remove the bucket from the machine.

### C. Bucket Installation

Installation of the bucket is basically the reverse of the removal procedures.



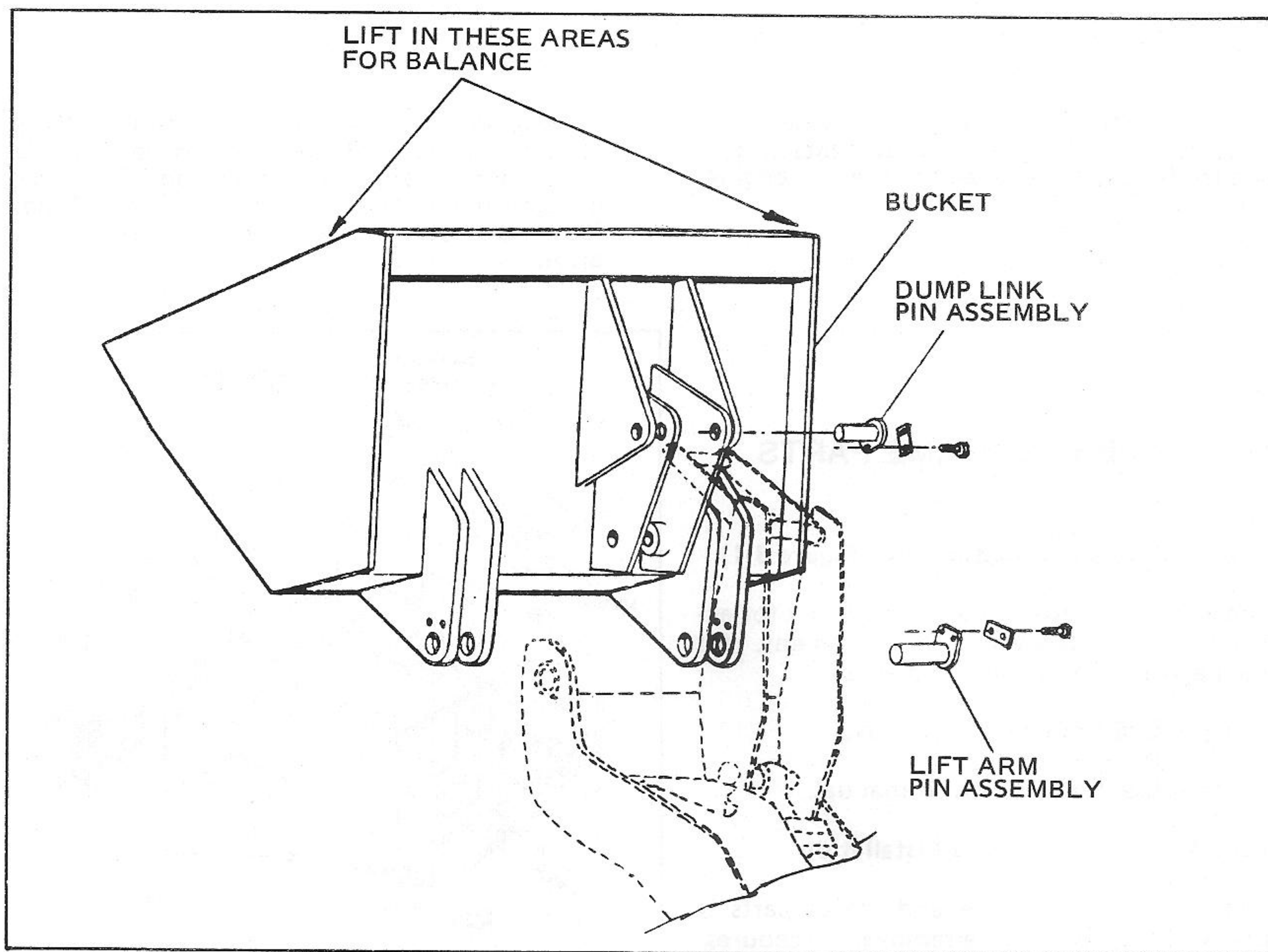


FIGURE 8 - 2. BUCKET ASSEMBLY

## 8-4. LIFT ARM ASSEMBLY

### A. Description (See Figure 8-3)

The lift arm assembly is fabricated from forged steel and seam welded. The lift arm provides a support and a means for maneuvering the bucket.

### B. Lift Arm Assembly Removal

- (1) Park the machine in a straight line with the lift arm under an overhead hoist.
- (2) Apply the park brake.
- (3) Remove the bucket assembly (refer to subsection 8-3, B).
- (4) Remove the left headlight mounting bracket.
- (5) Verify that the hydraulic system pressure is depleted.

(6) Disconnect the dump cylinder from the lift arm by removing the pin at the rod end of the cylinder. Support the rod end of the cylinder when removing the pin.

(7) With an overhead hoist, raise the lift arm high enough to gain access to the lift cylinder rod end pin. Support the rod end of the cylinder and remove the pin.

(8) Support the lift arm assembly at a balance point with an overhead hoist. Remove the three lift arm hinge pins that attach the lift arm to the loader end frame.

(9) Remove the lift arm assembly from the machine.

### C. Lift Arm Assembly Installation

Installation of the lift arm assembly is basically the reverse of the removal procedures.



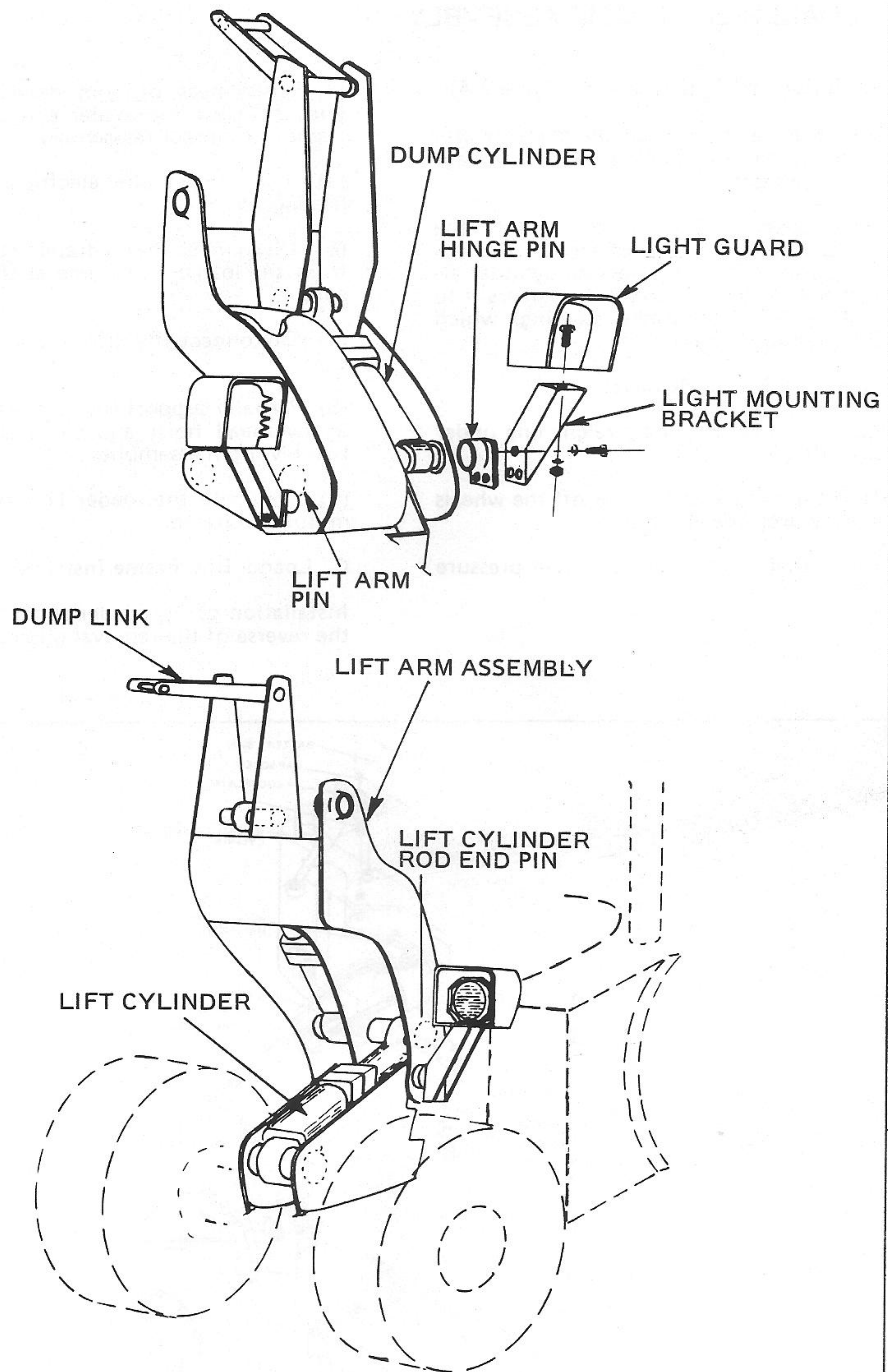


FIGURE 8 - 3. LIFT ARM ASSEMBLY





## 8-5. LOADER END FRAME ASSEMBLY

### A. Description and Function (See Figure 8-4)

- (1) The loader end frame of the machine provides support for the bucket, bucket linkage and front axle assembly.
- (2) The loader end frame attaches to the engine end frame at the pivot area of the machine. The rod end of the steering cylinder attaches to the loader end frame and steers it to the right or left (articulated steering) which provides directional travel.

### B. Loader End Frame Removal

- (1) Park the machine in a straight line under an overhead hoist.
- (2) Raise the engine end frame off the wheels and securely prop the end frame.
- (3) Verify that the hydraulic system pressure is depleted.

(4) Disconnect, cap and identify all hydraulic lines between the loader end and engine end frames for proper reassembly.

(5) Disconnect the electrical cables to the headlights.

(6) Disconnect the hydraulic steering cylinder from the loader end frame at the cylinder rod end.

(7) Disconnect the driveline from the transfer case.

(8) Partially support the loader end frame with an overhead hoist and chain and remove the two pivot pin assemblies.

(9) Separate the loader end frame from the motor end frame.

### C. Loader End Frame Installation

Installation of the loader end frame is basically the reverse of the removal procedures.

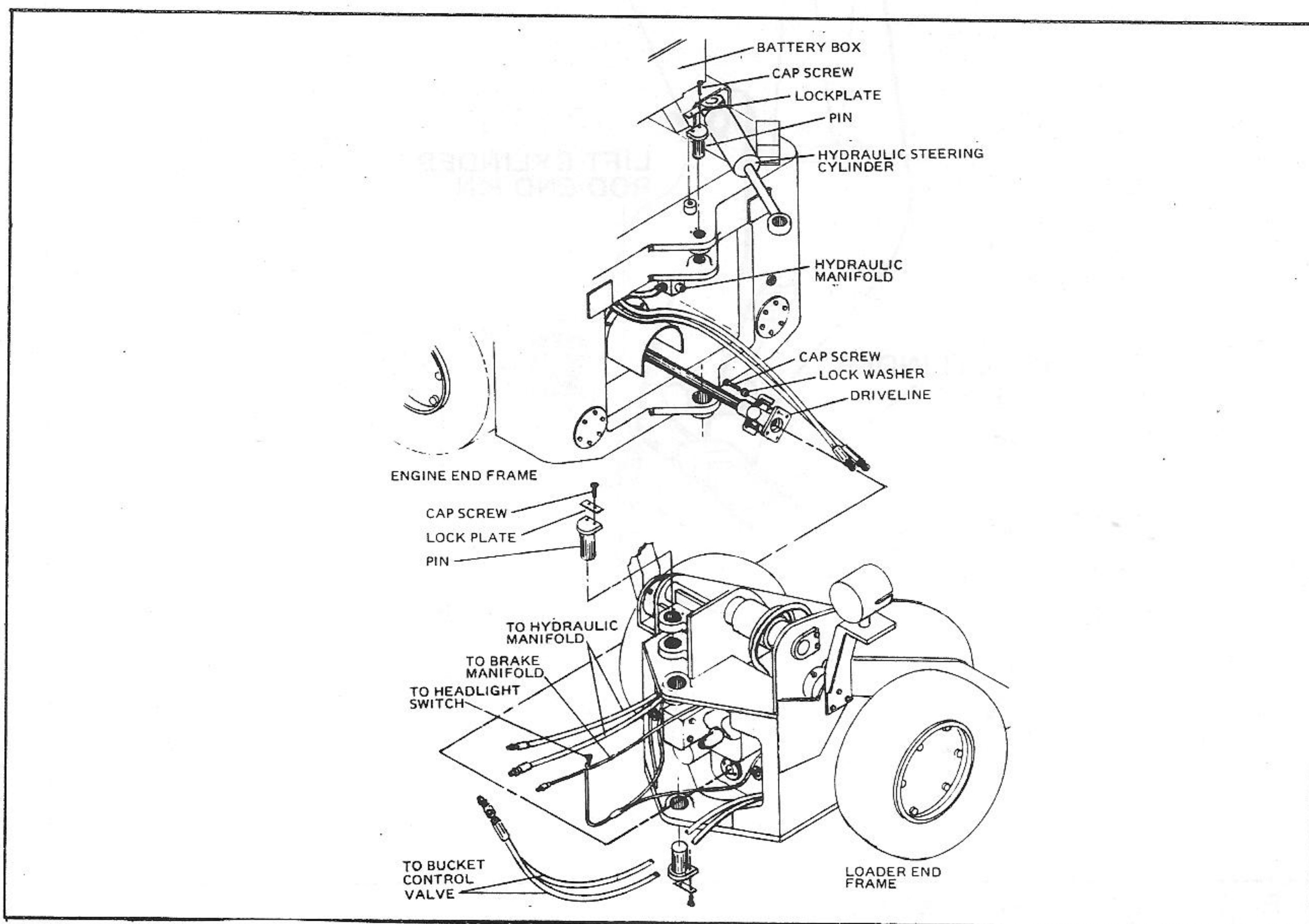


FIGURE 8 - 4. LOADER END FRAME ASSEMBLY