

- (4) Inspect bearings for pitting, wear, and other damage.
- (5) Replace all seals and o-rings.
- (6) Replace any parts worn or damaged beyond simple repair.

c. Reassembly. Reassemble the third drum by reversing disassembly procedures.

### 3-24. CATHEAD DRIVE ASSEMBLY (Figure 3-30).

#### a. Disassembly

- (1) Remove the cathead cover from the mount (16).
- (2) Remove the capscrews (30) and divider (32).
- (3) Remove the capscrew (1), lockwasher (2), washer (3), and cathead (4).
- (4) Remove the bracket (31).
- (5) Remove the nuts (8), lockwashers (10), washers (9), and capscrews (11).
- (6) Remove the pillow blocks (7), shaft (6), sprocket (5), chain (13), and sprocket (12).
- (7) Disconnect the tubing from the motor (28). Remove the nuts (25), capscrews (27), lockwashers (26) and remove the drive motor (28).
- (8) Remove the capscrews (18), lockwashers (19), and guard (17).
- (9) Remove the capscrews (14), lockwashers (15), and transmission and chain coupling (29).

#### b. Cleaning, Inspection, and Repair

- (1) Clean all parts in an approved solvent and dry thoroughly.
- (2) Inspect all parts for serviceable condition, paying particular attention to the condition of the chain and sprockets.
- (3) Replace any parts found defective, damaged, or excessively worn.

c. Reassembly. Reassemble the cathead drive assembly by reversing disassembly procedures.

### 3-25. CATHEAD DRIVE MOTOR (Figure 3-31).

#### a. Disassembly

- (1) Remove retainer ring (1), high pressure seal (2), o-ring (3), and bearings (4).
- (2) Remove bolt (5), washer (6), and port end cover (7).

- 26. LOCKWASHER
- 27. CAPSCREW
- 28. MOTOR
- 29. TRANSMISSION
- 30. CAPSCREW
- 31. BRACKET
- 32. DIVIDER

- 1. CAPSCREW
- 2. LOCKWASHER
- 3. WASHER
- 4. CATHEAD
- 5. SPROCKET
- 6. SHAFT
- 7. BLOCK
- 8. NUT
- 9. WASHER
- 10. LOCKWASHER
- 11. CAPSCREW
- 12. SPROCKET
- 13. CHAIN
- 14. CAPSCREW
- 15. LOCKWASHER
- 16. MOUNT
- 17. GUARD
- 18. CAPSCREW
- 19. LOCKWASHER
- 20. NUT
- 21. LOCKWASHER
- 22. WASHER
- 23. CAPSCREW
- 24. MOUNT
- 25. NUT

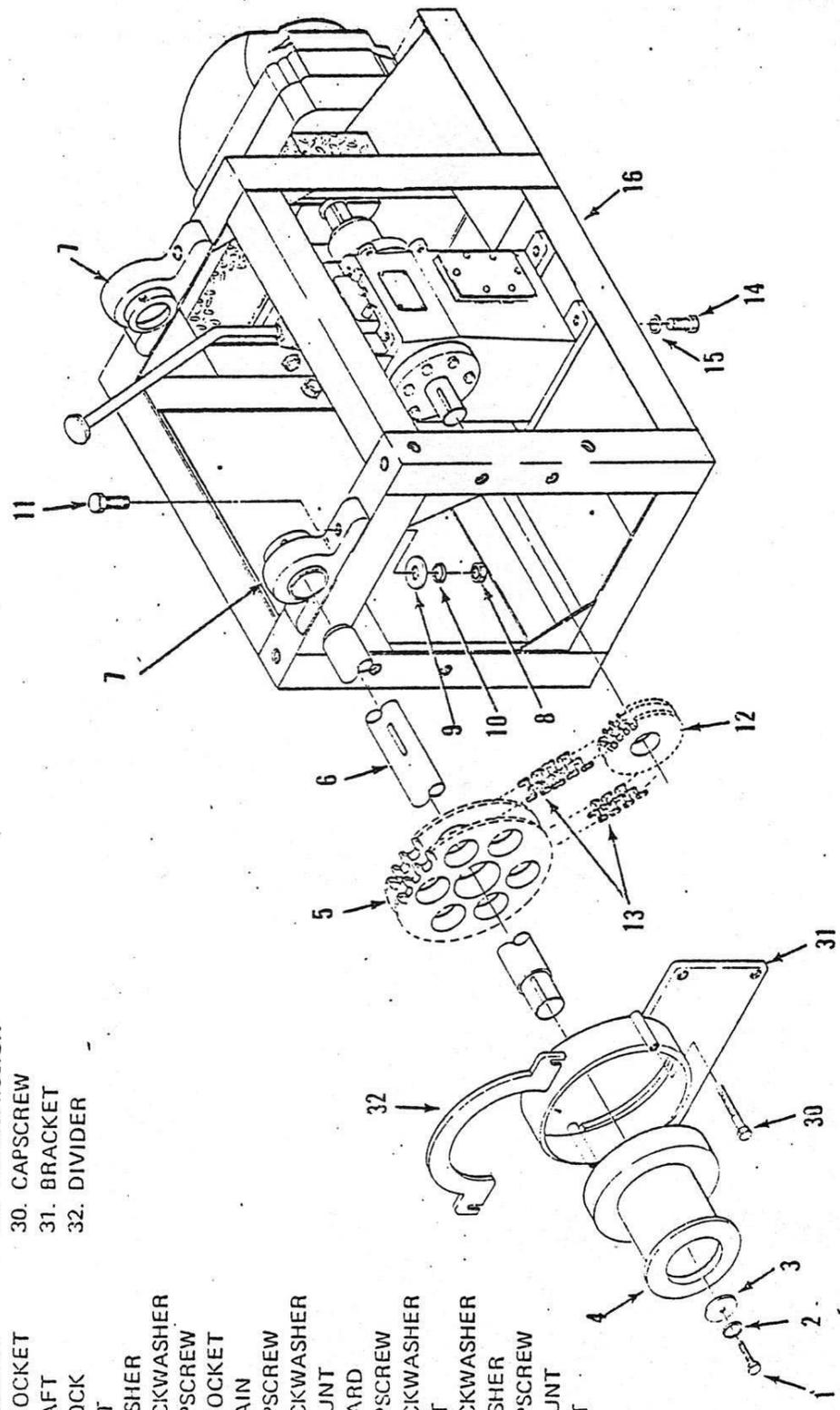


Figure 3-30. Cathode Drive Assembly (View 1 of 2)

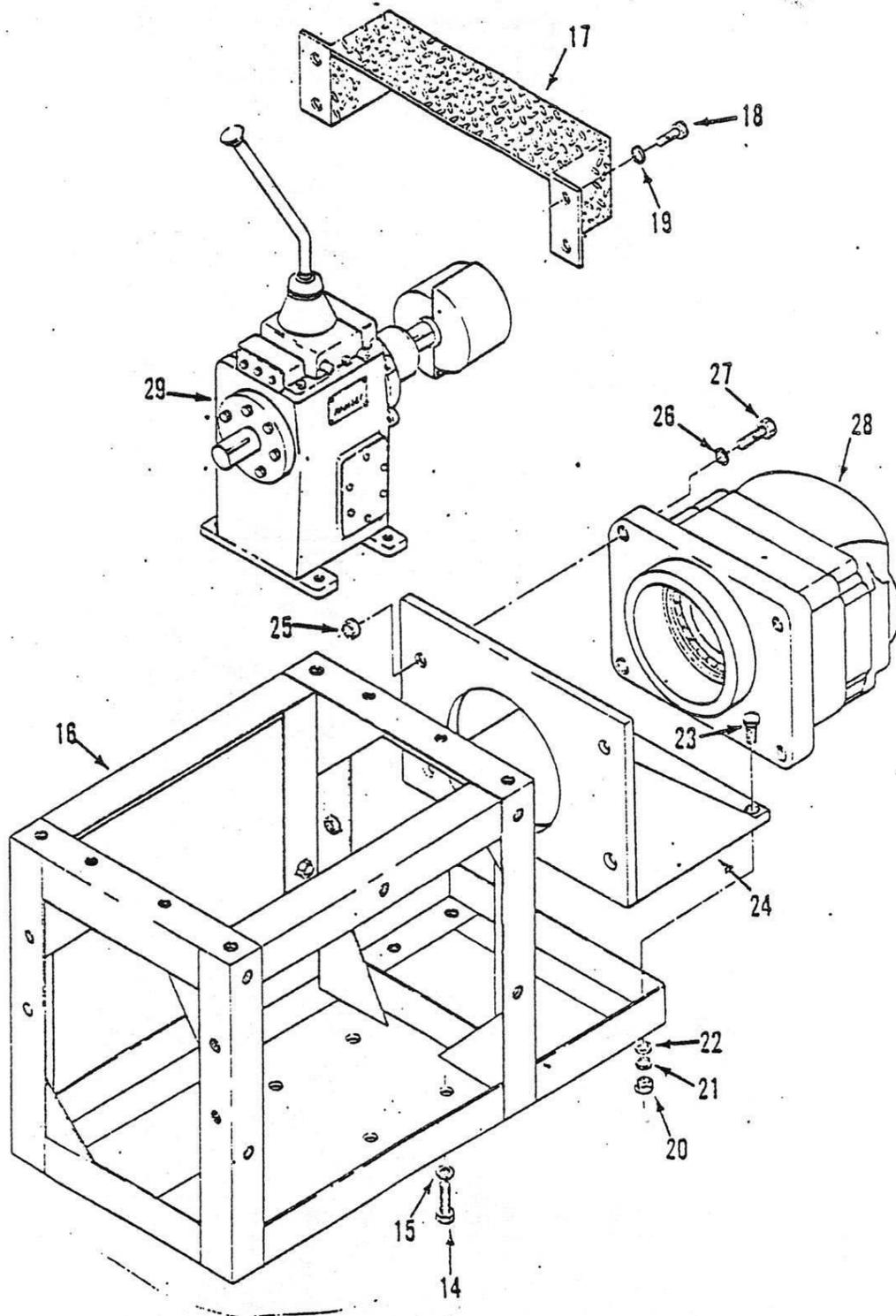


Figure 3-30. Cathode Drive Assembly (View 2 of 2)

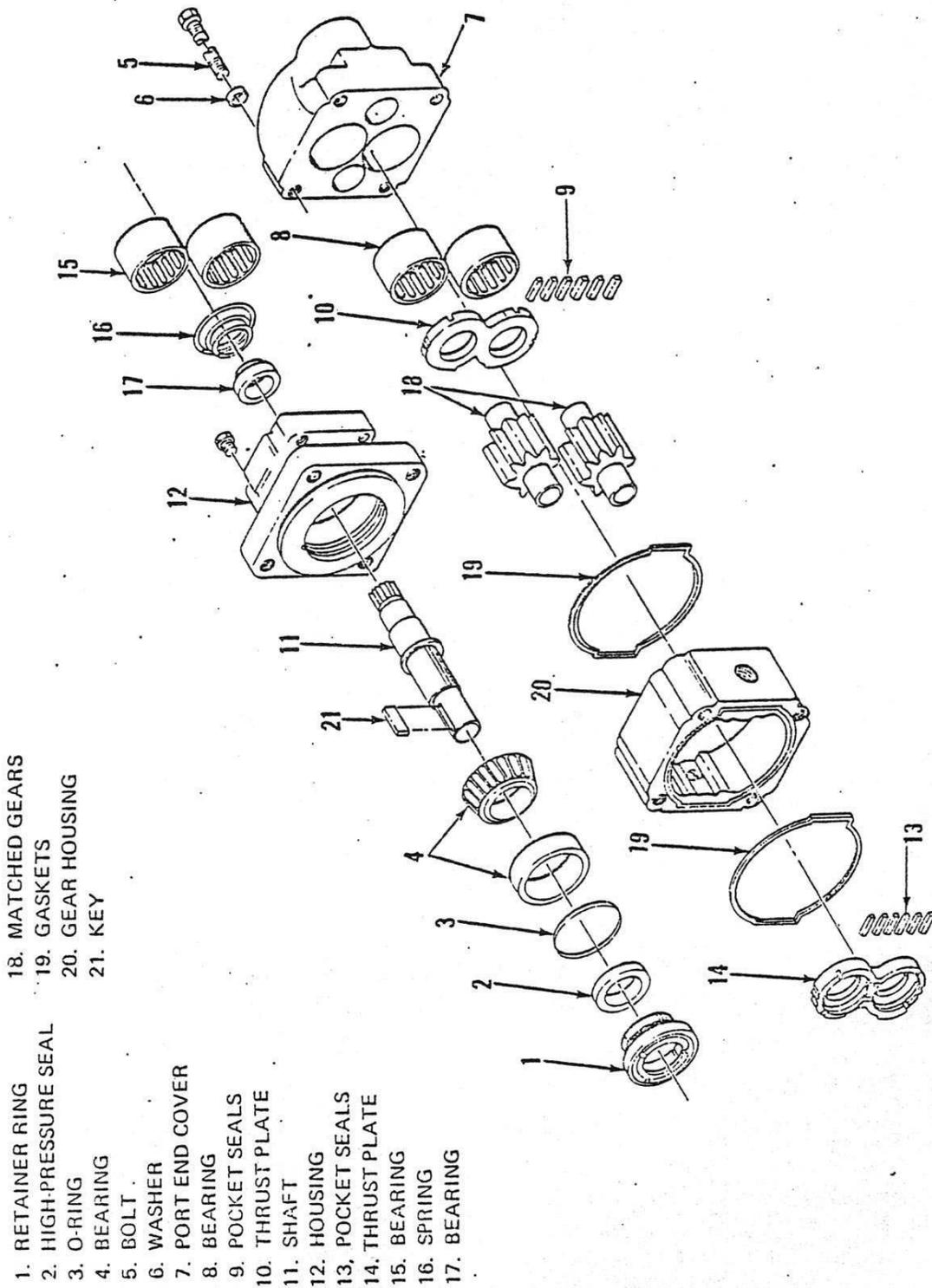


Figure 3-31. Cathode Drive Motor

- (3) Remove bearings (8), pocket seals (9), and thrust plate (10).
- (4) Remove shaft (11) from housing (12).
- (5) Remove pocket seals (13), thrust plate (14), bearings (15), spring (16), and bearing (17).
- (6) Remove matched gears (18) and gaskets (19) from gear housing (20).
- (7) Remove key (21) from shaft (11).

b. Cleaning, Inspection, and Repair

- (1) Wash all parts in an approved solvent and dry with filtered compressed air.
- (2) Inspect all parts for nicks, burrs, scores, and excessive wear.

NOTE

If either of the gears (18) require replacement, both gears must be replaced with a matched set.

- (3) Replace all seals, gaskets, and o-rings.

c. Reassembly

- (1) Reassemble the drive motor by reversing disassembly procedures, and performing the following additional procedures.
- (2) During reassembly, before tightening the bolts (5), rotate the drive shaft (11) to be sure the matched gears (18) are turning freely.
- (3) After tightening the bolts (5), rotate the drive shaft (11) to be sure that no internal parts are binding.

3-26. CATHEAD TRANSMISSION (Figure 3-32).

a. Disassembly

- (1) Refer to Chapter 2 for procedures and drain the transmission.
- (2) Remove the screws (1), lockwashers (2), screw (3), lockwasher (4), cover (5), and gasket (6).
- (3) Remove screws (7) and covers (8).
- (4) Remove pin (9), knob (10), cap (11), retainer (12), spring (13), and lever (14).
- (5) Remove pin (15), nut (16), plunger (17), and spring (18).