

d. Remove the pressure plate (7), and release springs (8). Do not remove the roll pins (6) unless replacement is necessary.

e. Remove the drive plates (9) and center plates (10).

f. Inspect all components of the clutch assembly and replace all that are worn excessively or damaged.

g. Reassemble the clutch by reversing disassembly procedures.

#### NOTE

If the diaphragm is to be replaced, set the front plate on a working surface with the diaphragm side up. Press the outer and inner diaphragm ribs well down in the grooves in the front plate.

3-13. WATER INJECTION PUMP (Figure 3-19). Perform the following procedures to disassemble the water injection pump.

a. Remove retaining ring (1), capscrews (2), pump cylinder assemblies (47), washer (10), and o-rings (36).

Discard o-rings.

b. Remove capscrews (29) to remove lower caps (30) with plugs (28) and o-rings (34). Discard o-rings.

c. Remove valve retainer (33), spring (32) and valve (31).

#### NOTE

Do not remove liners from valve body (35) unless inspection reveals damage.

d. Remove capscrews (5) and lockwashers (6) to disassembly link (3).

e. Remove needle bearing (7), seal (8), and bearing race (13).

f. Press bearing (9) out of the link (3).

#### NOTE

Do not remove grease fittings (4) unless replacement is necessary.

g. Remove the nut (11) to remove the crosshead (12) and crosshead bearing (14) from the plunger

1. RING
2. CAPSCREW
3. LINK AND BEARING ASSEMBLY
4. FITTING
5. CAPSCREW
6. LOCKWASHER
7. BEARING
8. SEAL
9. BEARING
10. WASHER
11. NUT
12. CROSSHEAD ASSEMBLY
13. RACE
14. BEARING
15. PLUNGER ASSEMBLY
16. NUT
17. O-RING
18. WASHER
19. PLUNGER CUP
20. O-RING
21. FOLLOWER AND SEAT ASSEMBLY
22. SEAT
23. VALVE
24. SPRING
25. PLUNGER CUP
26. O-RING
27. PLUNGER
28. PLUG
29. CAPSCREW
30. CAP
31. VALVE
32. SPRING
33. RETAINER
34. O-RING
35. BODY
36. O-RING
37. O-RING
38. RING
39. WASHER
40. SHAFT
41. WASHER
42. BEARING
43. PLUG
44. PLUG
45. FITTING
46. CHAMBER
47. PUMP CYLINDER ASSEMBLY

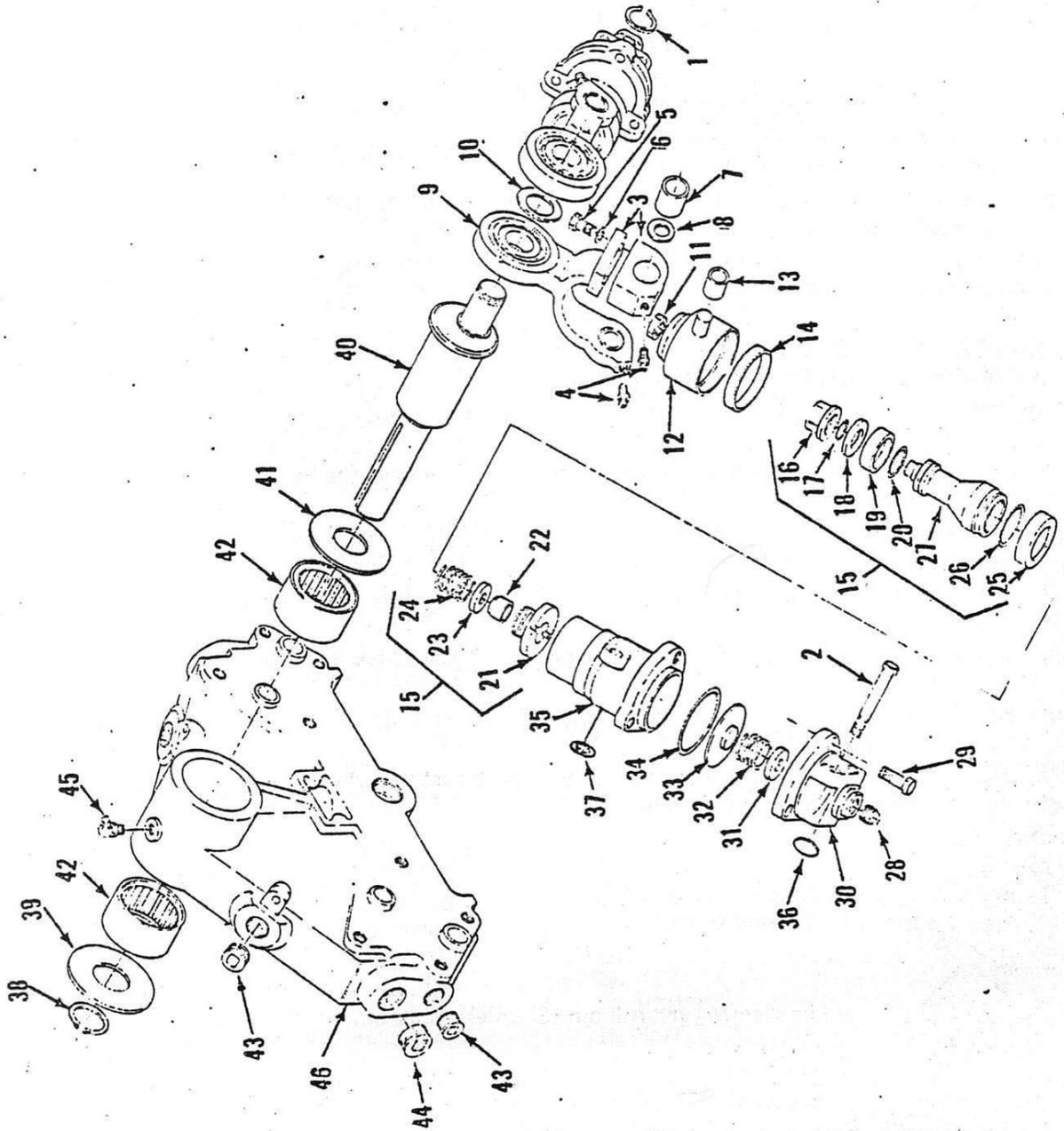


Figure 3-19. Water Injection Pump

assembly (15).

h. Remove the follower nut (16), O-ring (17), washer (18), upper cup (19), and O-ring (20). Discard O-rings.

i. Remove the follower (21), seat (22), valve (23), spring (24), seat (25), and o-ring (26) from the plunger (27). Discard o-ring.

j. Remove retaining ring (38), washer (39), shaft (40) and bearings (42).

#### NOTE

Do not remove plugs (28, 43, and 44) or grease fitting (45) unless replacement is necessary.

k. Clean all parts in an approved solvent and dry thoroughly.

l. Inspect all parts for damage or excessive wear, and replace as necessary.

m. Use new o-rings and reassemble the water injection pump by reversing disassembly procedures.

### 3-14. WATER INJECTION DRIVE MOTOR (Figure 3-20) (CHARLYNN)

#### a. Disassembly

(1) Disconnect piping and remove the motor assembly. Remove the key (24).

(2) Remove screws (21), port block (21), and o-rings (23).

(3) Remove capscrews (1), lockwashers (2), mounting plate (5), and seal (4).

(4) Remove washer (6), seal (7), o-ring (8), bearing race (9), and bearing (10).

(5) Remove capscrews (11), seal washers (12), and end cap (13).

(6) Remove gerotor assembly (14), spacer plate (15), thrust bearing (16), drive (17), spacer (18), and shaft (26).

(7) Remove the plug (20) and o-ring (19).

#### NOTE

Do not remove the roll pin (3) unless replacement is necessary.

b. Cleaning. Clean all metal parts in an approved solvent.