

- (5) Disconnect the air line from the clutch (34).

#### NOTE

The air compressor drive can now be removed as a unit, if desired.

- (6) Remove the cotter pin (51), nut (48), washer (47), flange (50), and key (16).
- (7) Remove the nuts (1), lockwashers (2), bolts (3), seal retainers (4 and 5), seals (6 and 8), and bearing (7) from the pillow block (13).
- (8) Remove nuts (46), bolts (35), lockwashers (36), retainers (37 and 45), seals (38 and 44), spacers (39 and 43) and bearing (40) from the pillow block (41).
- (9) Remove the bolts (17), lockwashers (18), retainer (20), seal (21), bearing (22), shaft (19), and key (15).
- (10) Remove the bolts (27), lockwashers (28), retainer (29), seal (26), bearing (25), and spacer (24) from the sheave (23).

b. Cleaning. Clean all parts, except the grease seals, in an approved solvent.

c. Inspection.

- (1) Inspect all parts for damage or wear and replace as necessary.
- (2) Inspect the grease seals for serviceable condition.

#### NOTE

If there was evident of grease leaking around the pillow blocks, the seals should be replaced.

d. Reassembly. Reassemble the air compressor drive by reversing disassembly procedures.

3-12. AIR COMPRESSOR DRIVE CLUTCH (Figure 3-18). Perform the following procedures to disassemble the air compressor drive clutch.

- a. Loosen or remove the setscrew (1), and remove the nut (2).
- b. Remove the front plate (3) with the diaphragm (4) attached from the hub and back plate (11).
- c. Remove the insulation plate (5).

1. SETSCREW
2. NUT
3. FRONT PLATE
4. DIAPHRAGM
5. INSULATION PLATE
6. ROLL PIN
7. PRESSURE PLATE
8. RELEASE SPRINGS
9. DRIVE PLATE
10. CENTER PLATE
11. HUB AND BACK PLATE
12. SCREW
13. NAME PLATE

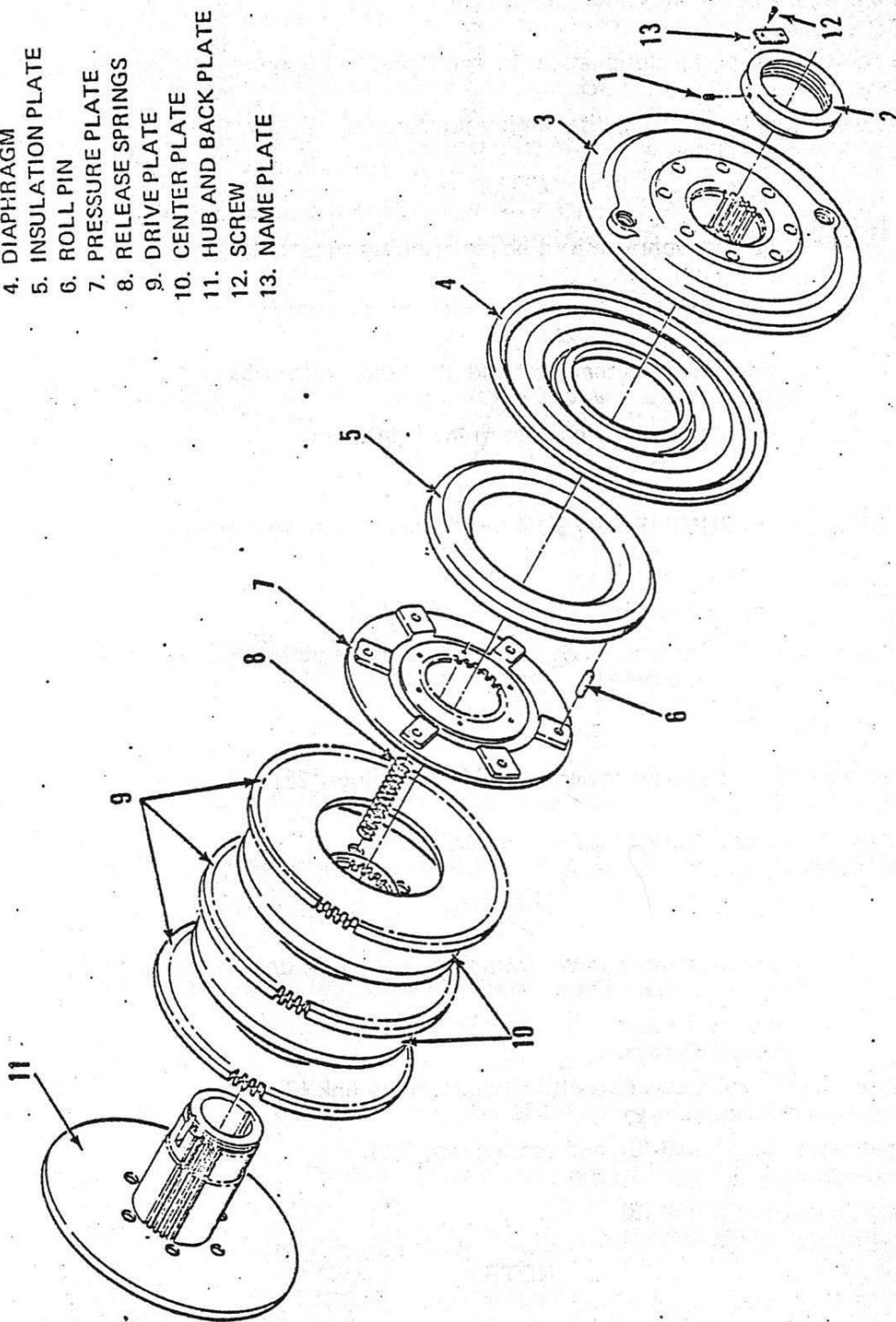


Figure 3-18. Air Compressor Drive Clutch

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