

### 3.42. FORCE FEED LUBRICATOR (Figure 3-83).

#### a. Disassembly

- (1) Remove the screw (1), coupling guard (2), coupling (3), and keys (4).
- (2) Remove the nuts (94), lockwashers (95), bolts (93), and motor cover (96).
- (3) Remove screws (5 and 7), lockwashers (6), motor (8), and spacer block (11).
- (4) Remove the screws (9) to separate the spacer bar (10) from the spacer block (11).
- (5) Remove nuts (12), lockwashers (13), bolts (14), flat washers (15), and reservoir assembly (90).
- (6) Remove the screws (16), washers (17), to remove the pump assembly from the reservoir (90).
- (7) Remove the strainer (18), suction tube (19), and plunger assembly (20).
- (8) Remove the groove pin (21), retaining ring (22), rocker arm pin (23), rocker arm post (24), and rocker arm and roller (25 and 26).
- (9) Remove retaining ring (27), spring retainer (28), and spring (29).
- (10) Remove screws (30) and remove the sight glass housing assembly (32) from the pump body (45).
- (11) Remove the gasket (46), o-rings (41, 42 and 43), and ball (44).
- (12) Remove the ball retainer (36), o-ring (37), spring (38), and ball (39).
- (13) Remove the screw (31), sight glass (33), o-ring (34), and drip tube (35).
- (14) Remove screws (47), lockwashers (48), and remove the cover (50), and gasket (51) from the drive assembly housing. Remove the seal (49).
- (15) Remove the screws (67) and support bearing cap (68).
- (16) Loosen the setscrew (69).
- (17) Remove the screws (47), lockwashers (48), and remove the drive assembly housing from the reservoir (90).
- (18) Remove the coupling (71) and key (65).
- (19) Loosen the setscrews (70) and remove the cams (72), keys (73), thrust washer (74), and camshaft (75).
- (20) Remove the locknut (76), end bearing (77), and gasket (76).
- (21) Remove the spacer (53), retaining ring (54), thrust washers and thrust bearings (55 and 56),

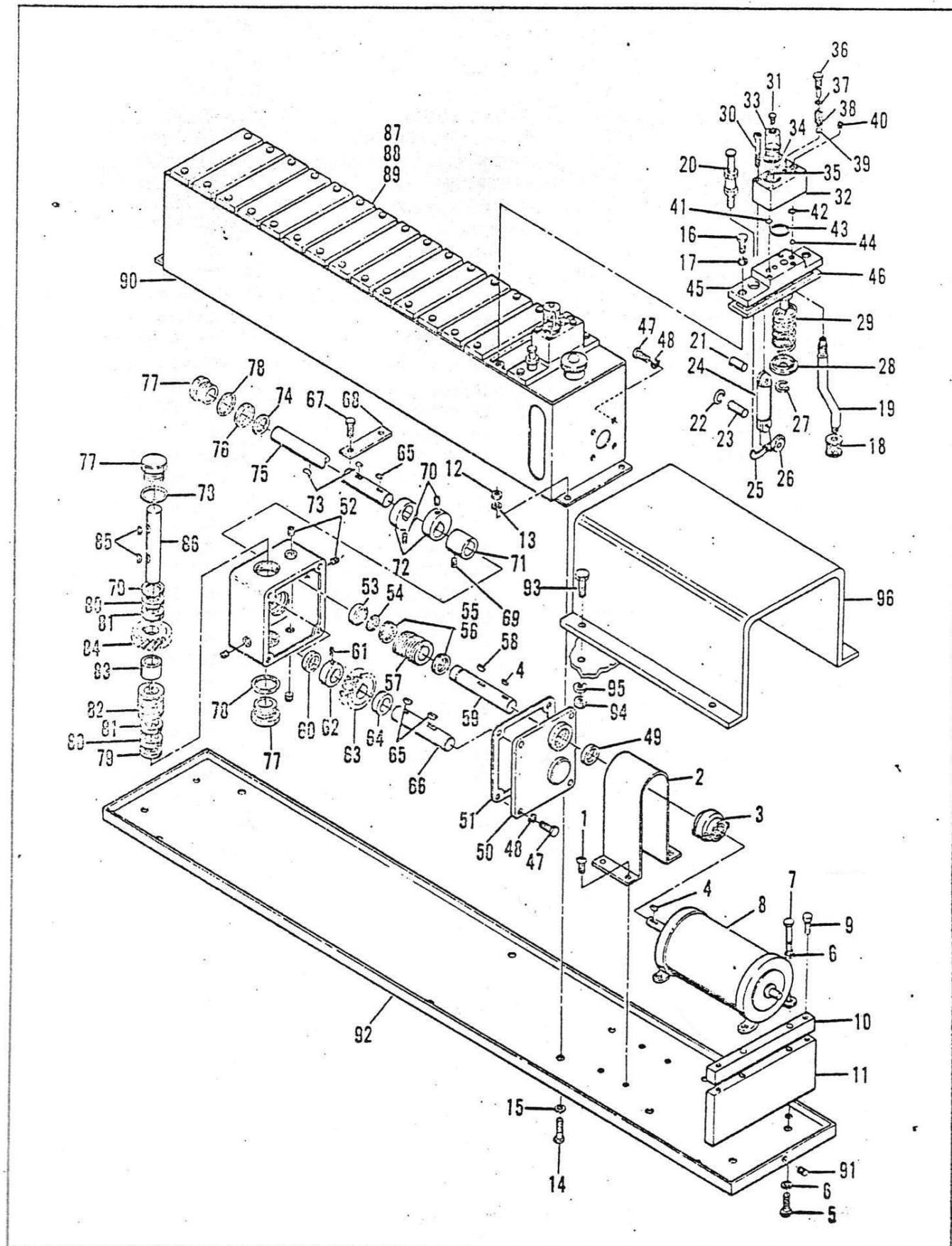


Figure 3-83. Force Feed Lubricator

1. SCREW	33. SIGHT GLASS	65. KEY
2. COUPLING GUARD	34. O-RING	66. CONNECTOR SHAFT
3. COUPLING	35. DRIP TUBE	67. SCREW
4. KEY	36. BALL RETAINER	68. BEARING CAP
5. SCREW	37. O-RING	69. SETSCREW
6. LOCKWASHER	38. SPRING	70. SETSCREW
7. SCREW	39. BALL	71. COUPLING
8. MOTOR	40. PLUG	72. CAM
9. SCREW	41. O-RING	73. KEY
10. SPACER BAR	42. O-RING	74. THRUST WASHER
11. SPACER BLOCK	43. O-RING	75. CAMSHAFT
12. NUT	44. BALL	76. LOCKNUT
13. LOCKWASHER	45. PUMP BODY	77. END BEARING
14. BOLT	46. GASKET	78. GASKET
15. WASHER	47. SCREW	79. THRUST WASHER
16. SCREW	48. LOCKWASHER	80. THRUST BEARING
17. WASHER	49. SEAL	81. SPACER
18. STRAINER	50. COVER	82. WORM
19. SUCTION TUBE	51. GASKET	83. SPACER
20. PLUNGER ASSEMBLY	52. PLUG	84. WORM GEAR
21. GROOVE PIN	53. SPACER	85. KEY
22. RING	54. RETAINING RING	86. TRANSFER SHAFT
23. ROCKER ARM PIN	55. THRUST WASHER	87. SCREW
24. ROCKER ARM POST	56. THRUST BEARING	88. WASHER
25. ROCKER ARM	57. WORM	89. BLANK COVER
26. ROLLER	58. KEY	90. RESERVOIR
27. RETAINING RING	59. DRIVE SHAFT	91. DRAIN PLUG
28. SPRING RETAINER	60. SEAL	92. BASE
29. SPRING	61. SETSCREW	93. BOLT
30. SCREW	62. SEAL	94. NUT
31. SCREW	63. WORM GEAR	95. LOCKWASHER
32. SIGHT GLASS HOUSING	64. SPACER	96. MOTOR COVER

Legend for Figure 3-83. Force Feed Lubricator

worm (57) and key (58) from the drive shaft (59).

(22) Loosen the setscrew (61) and remove the seal (60), spacer (62, worm gear (63), spacer (64) and keys (65) from connector shaft (66).

(23) Remove end bearings (77) and gaskets (78).

(24) Remove thrust washers (79), thrust bearings (80), spacers (81, worm (82), spacer (83), worm g (84), and keys (85) from transfer shaft (86).

(25) Remove screws (87) and washers (88) to remove blank cover assembly (89).

b. Cleaning, Inspection, and Repair

(1) Clean all parts in an approved solvent and dry thoroughly with compressed air.

(2) Inspect couplings for excessive wear or damage.

(3) Inspect drive motor for cracks, corrosion, signs of overheating, shorting, or other damage.

(4) Inspect valve balls and seat for pitting, wear, and other damage.

(5) Inspect rocker arms and cams for cracks, scoring, and wear.

(6) Check strainer for tears, holes, and clogging.

(7) Check suction tube for clogging.

(8) Check worms and worm gears for excessive wear.

(9) Inspect shafts and bearings for scores, wear, and signs of overheating.

(10) Check sight glasses for cracks and breaks.

(11) Replace any parts damaged beyond simple repair.

c. Reassembly. Reassemble the force feed lubricator by reversing disassembly procedures.

d. Adjustment. Refer to Chapter 2 for procedures to service and adjust the force feed lubricator.