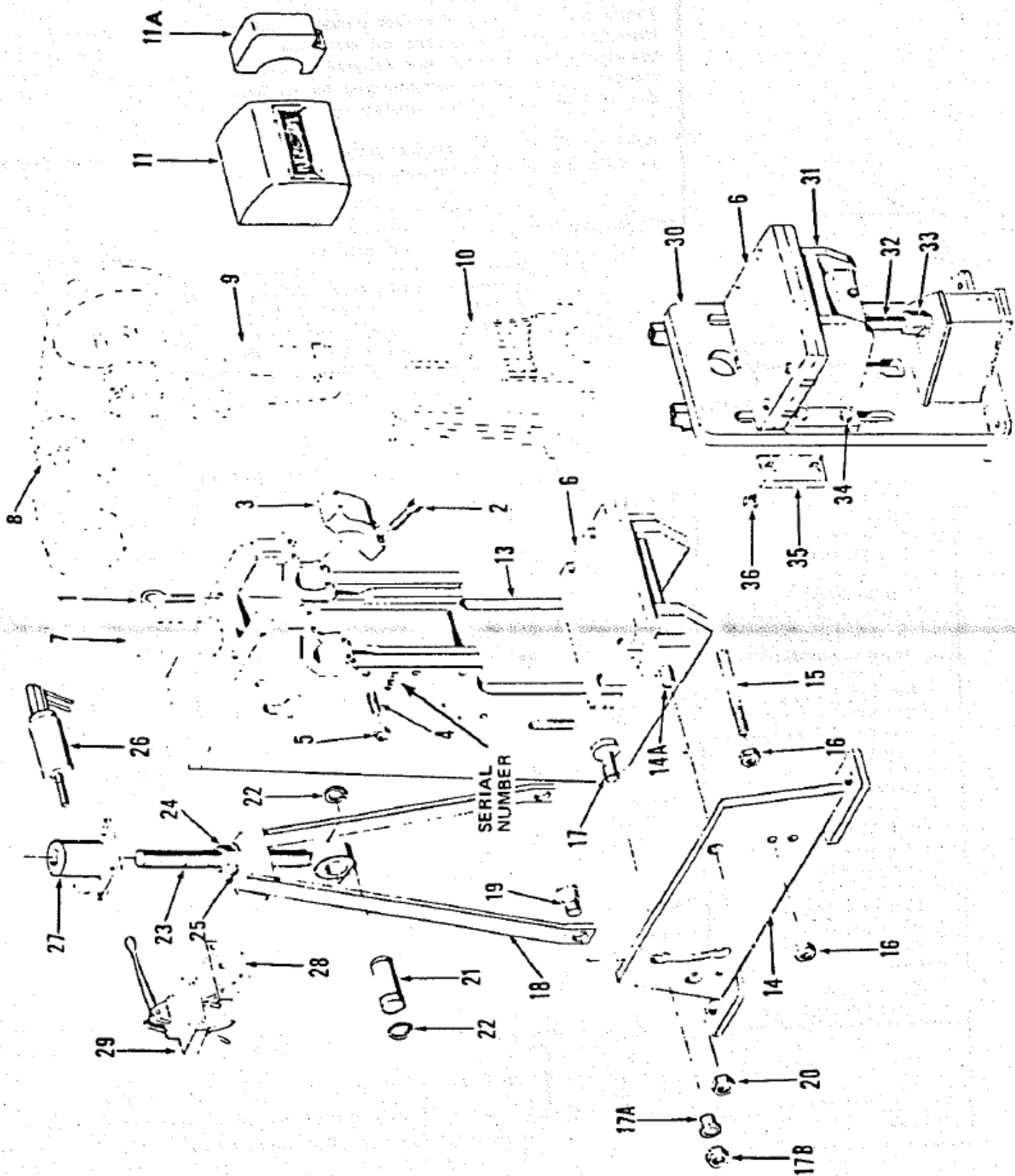




FRAME

All Models

1. Lifting Eye Bolts
2. Cap Screw
3. Bearing Cap
4. Gib Adjusting Screw
5. Gib Adjusting Nut
6. Bolster Plate
7. Counterbalance (optional) (See separate Parts List)
8. Drive Assembly (See separate Parts List)
9. Connection (See separate Parts List)
10. Slide (See separate Parts List)
11. Front Frame Cover (up to A-60)
- 11A. Clutch Cover

Adjustable Bed Models Only

30. Frame
31. Table
32. Adjusting Screw
33. Jam Nut
34. Clamp Screw
35. Clamp Bar
36. Clamp Nut

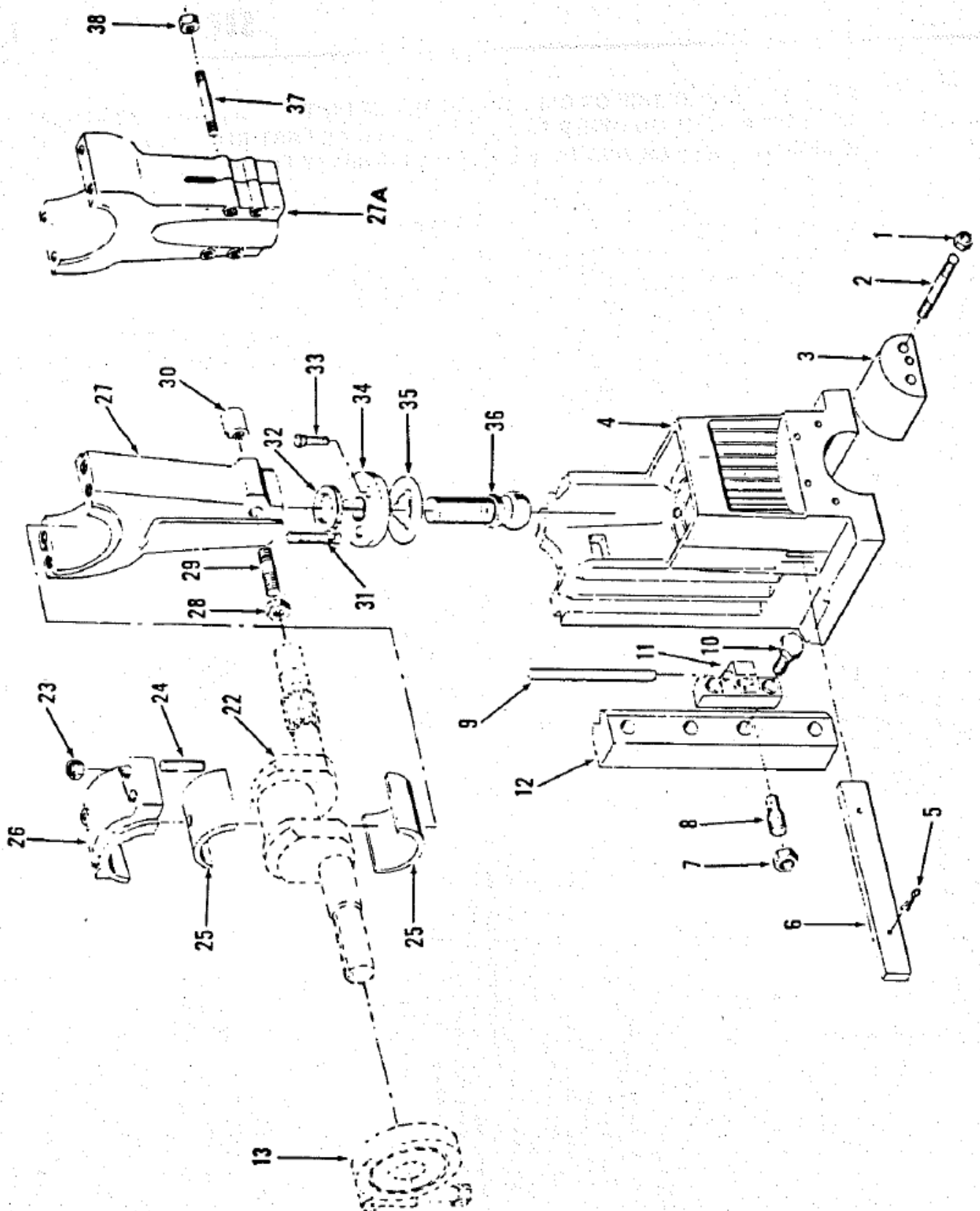
Inclinable Models Only

13. Frame (Cast Iron on A-15)
14. Leg
- 14A. Leg Pivot
15. Tie Rod
16. Tie Rod Nut
17. Rear Leg Stud
- 17A. Locking Collar
- 17B. Nut

Inclinable Options

18. Inclining Bracket
19. Bracket Stud
20. Nut
21. Inclining Screw Pin
22. Retainer Ring
23. Inclining Screw
24. Inclining Screw Nut
25. Thrust Bearing
26. Adjusting Motor
27. Worm Gear Jack
28. Valve Bracket
29. Hand Operated Valve

Power
Operated

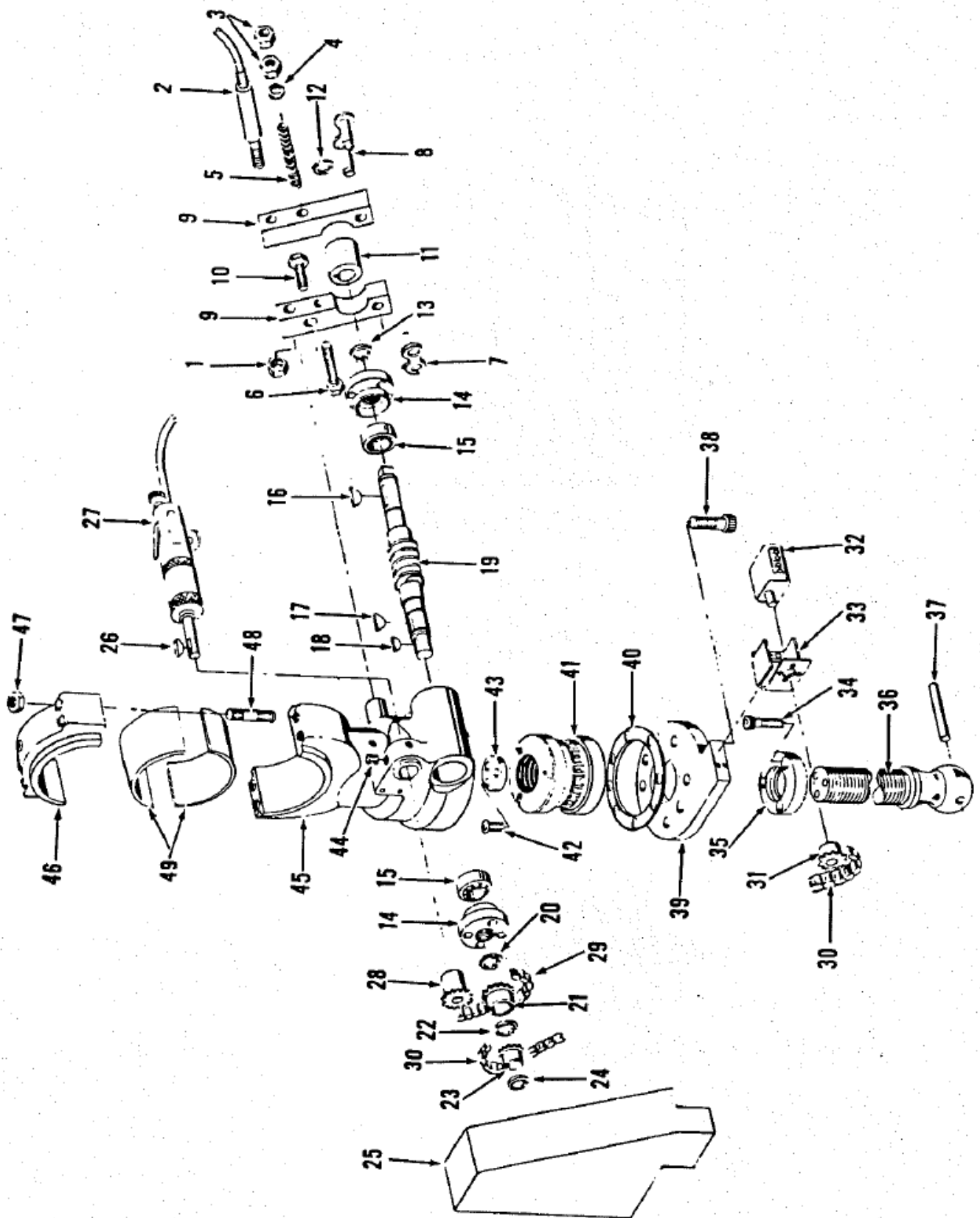


SLIDE & MANUALLY ADJUSTED CONNECTION

1. Nut
2. Breech Block Stud
3. Breech Block
4. Slide (Ram)
5. Cotter Pin
6. Knock-out Bar
7. Clamp Nut
8. Knock-out Clamp
9. Knock-out Pin
10. Bracket Mounting Screw
11. Knock-out Bracket
12. Gib
13. Brake (See Drive Parts List)
22. Crankshaft (See separate Parts List)

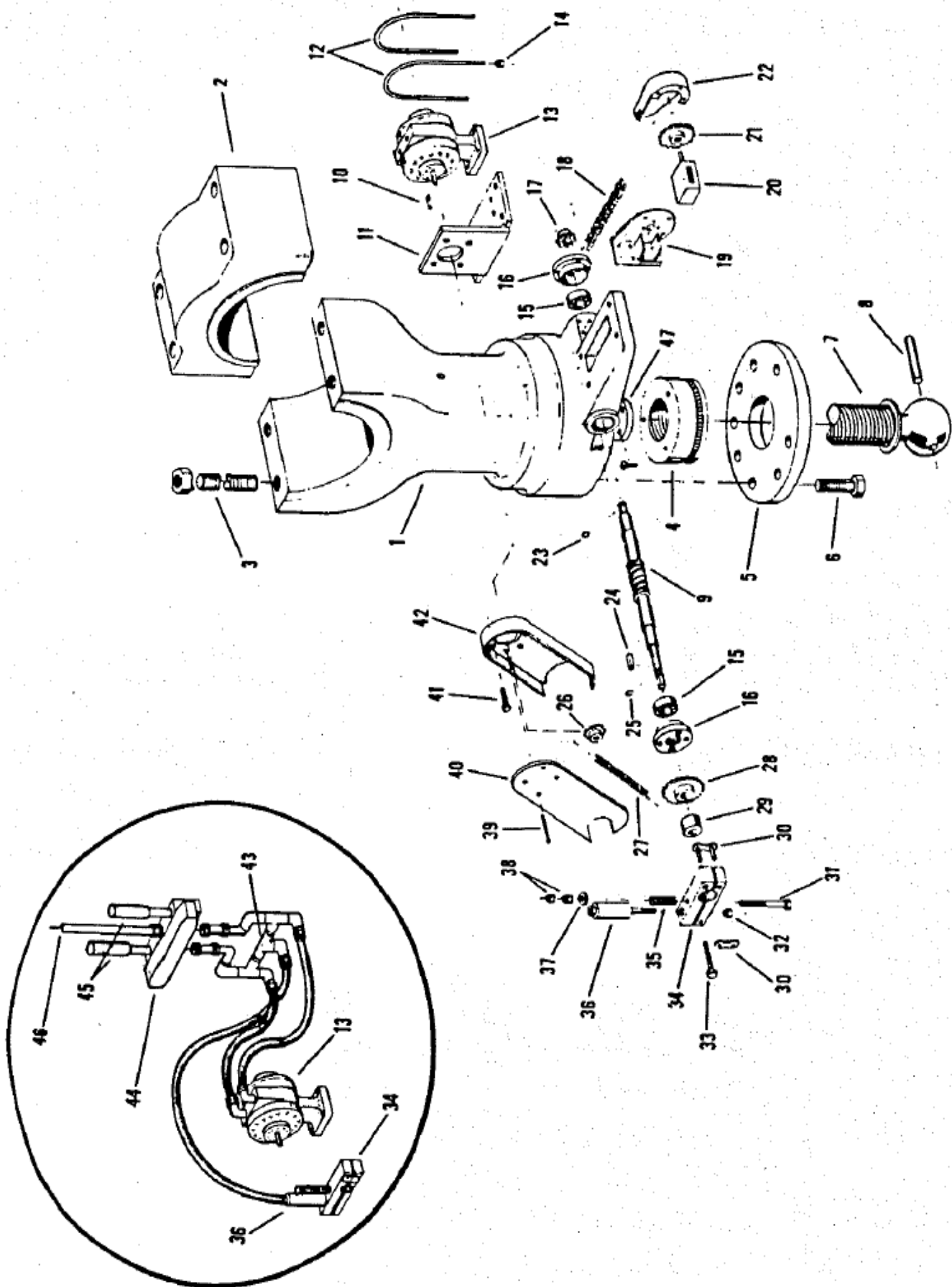
Manually Adjusted Connection Only

23. Nut
24. Connection Cap Stud
25. Connection Bushing
26. Connection Cap (sold with connection)
27. Connection
- 27A. Connection
28. Clamp Plug Nut
29. Clamp Plug Stud
30. Clamp Plug (sold with connection)
31. Slide Indicator Scale
32. Slide Indicator Gage
33. Cap Screw
34. Connection Ball Cap
35. Cap Shim
36. Connection Ball Screw
37. Clamping Stud
38. Clamping Nut



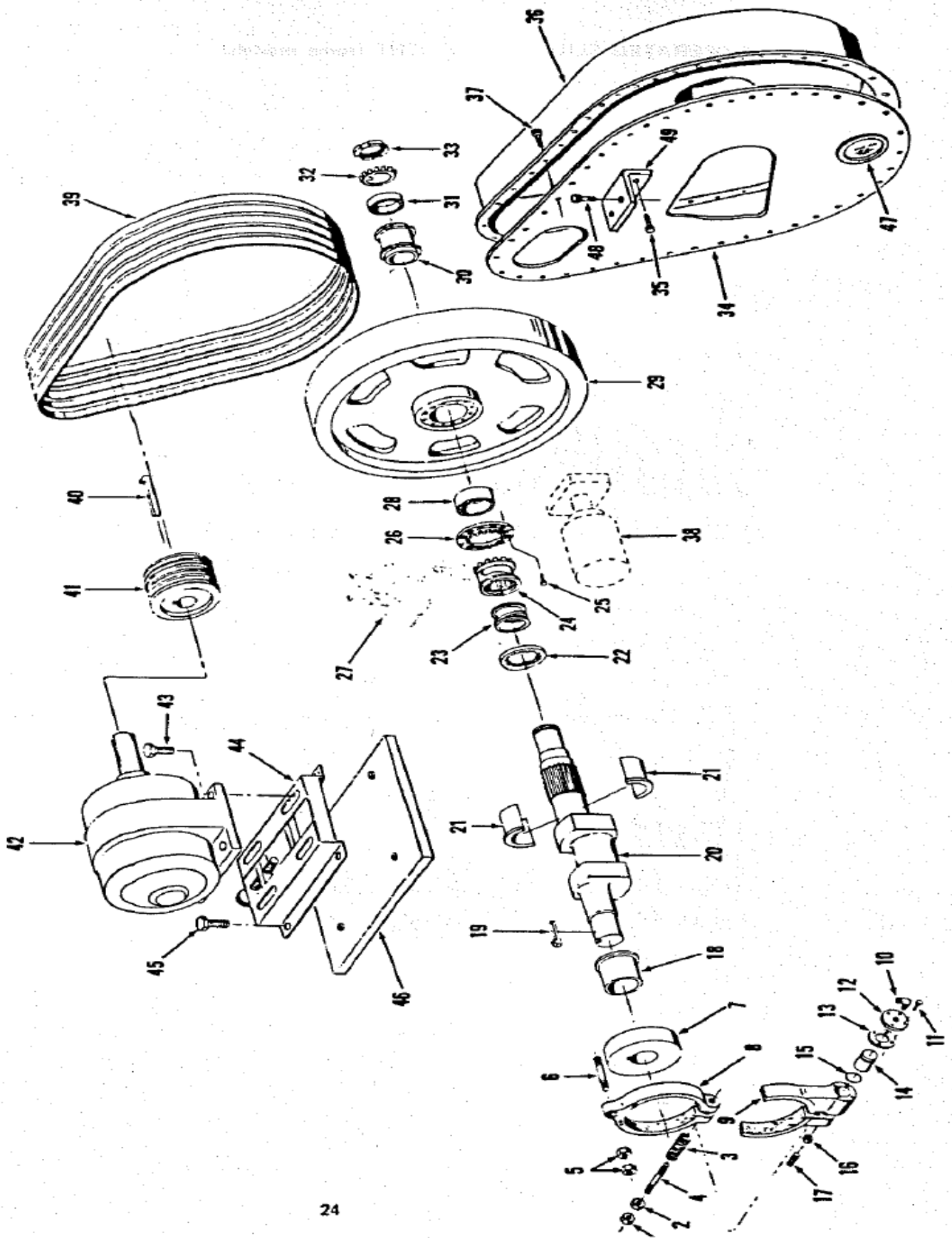
POWER OPERATED SLIDE ADJUSTMENT (some models)

- | | |
|--------------------------|--|
| 1. Cylinder Nut | 26. Sprocket Key |
| 2. Air Cylinder | 27. Air Motor (Reversing - Direct Control) |
| 3. Nut | 28. Sprocket |
| 4. Washer | 29. Driving Chain |
| 5. Brake Spring | 30. Counter Chain |
| 6. Brake Spring Bolt | 31. Counter Sprocket |
| 7. Connector | 32. Counter |
| 8. Connecting Link | 33. Counter Bracket |
| 9. Brake Strap | 34. Cap Screw |
| 10. Brake Mounting Screw | 35. Ball Screw Cap |
| 11. Brake Collar | 36. Connection Ball Screw |
| 12. Retainer Ring | 37. Ball Screw Pin |
| 13. Retainer Ring | 38. Retainer Fastening Screw |
| 14. Bearing Retainer | 39. Worm Gear Retainer |
| 15. Bearing | 40. Retainer Shim |
| 16. Brake Collar Key | 41. Worm Gear |
| 17. Sprocket Key | 42. Plate Fastening Screw |
| 18. Sprocket Key | 43. Stop Plate |
| 19. Adjusting Worm Shaft | 44. Set Screw |
| 20. Retainer Ring | 45. Connection |
| 21. Sprocket | 46. Connection Cap |
| 22. Retainer Ring | 47. Nut |
| 23. Sprocket | 48. Connection Stud |
| 24. Retainer Ring | 49. Connection Bushing |
| 25. Chain Guard | |



POWER OPERATED SLIDE ADJUSTMENT (some models)

- | | | |
|--------------------------------|----------------|-------------------------------------|
| 1. Connection | { Sold as unit | 25. Retainer Ring |
| 2. Connection Cap | | 26. Motor Sprocket |
| 3. Cap Stud and Nut | | 27. Drive Chain |
| 4. Worm Gear | | 28. Sprocket |
| 5. Worm Gear Retainer | | 29. Brake Collar |
| 6. Retainer Screws | | 30. Connecting Link |
| 7. Ball Connection Screws | | 31. Brake Pin Screw |
| 8. Ball Screw Pin | | 32. Air Cylinder Nut |
| 9. Slide Adjustment Worm Shaft | | 33. Brake Mounting Screw |
| 10. Motor Key | | 34. Brake Straps |
| 11. Motor Bracket | | 35. Brake Spring |
| 12. Motor Straps | | 36. Air Cylinder |
| 13. Air Motor | | 37. Spring Washer |
| 14. Motor Strap Nuts | | 38. Spring Adjusting Nuts |
| 15. Bearings | | 39. Cover Plate Screws |
| 16. Bearing Retainer | | 40. Cover Plate |
| 17. Sprocket | | 41. Chain Guard Screw |
| 18. Counter Chain | | 42. Chain Guard |
| 19. Counter Bracket | | 43. Shuttle Valve |
| 20. Counter | | 44. Dual Solenoid Valve |
| 21. Counter Sprocket | | 45. Muffler |
| 22. Counter Chain Guard | | 46. Air Line Lubricator (Not Shown) |
| 23. Retainer Ring | | 47. Positive Stop Plate |
| 24. Worm Key | | |



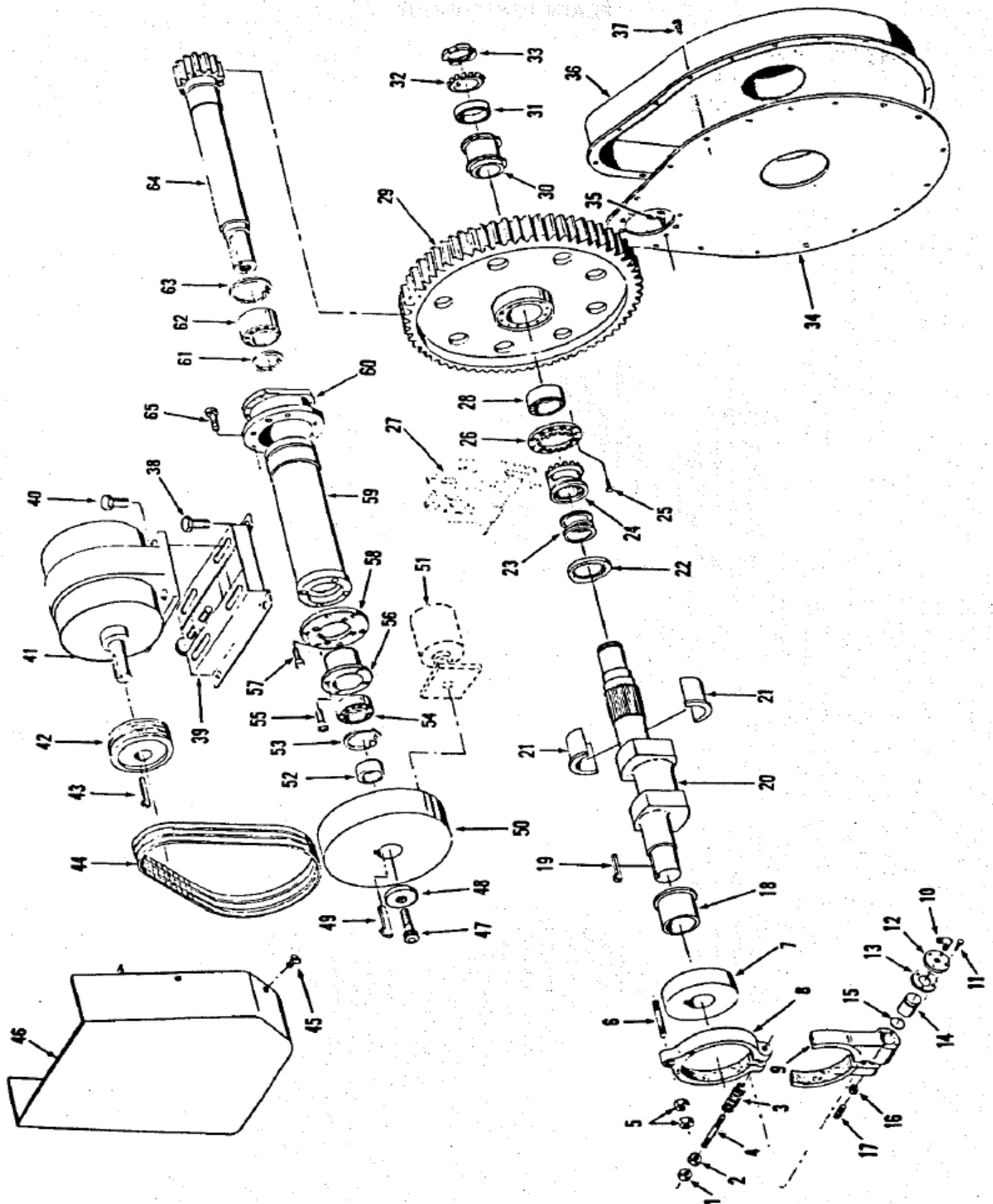
PLAIN PRESS DRIVE

1. Brake Locknut
2. Brake Adjusting Nut
3. Brake Spring
4. Brake Spring Stud
5. Brake Mounting Nuts
6. Brake Strap Mounting Stud
7. Brake Collar
8. Drag Brake Strap
18. L. H. Bushing
19. Brake Collar Key
20. Crankshaft
21. R. H. Split Bushing
22. Clutch Cam
23. Clutch Spring
24. Clutch Sleeve
25. Clutch Ring Mounting Bolt
26. Clutch Ring
27. Latch Bracket (See separate Parts List)
28. Inner Flywheel Bearing
29. Flywheel
30. Spacing Collar
31. Outer Flywheel Bearing
32. Lock washer
33. Lock nut
34. Guard Plate
35. Plate Mounting Screw

36. Flywheel Guard
37. Guard Mounting Screw
38. Flywheel Brake (Optional)
39. Driving Belt
40. Motor Key
41. Sheave
42. Main Motor
43. Motor Mounting Screw
44. Adjustable Motor Base
45. Base Mounting Screw
46. Motor Mounting Plate
47. Rotation Sight Window
48. Bracket Mounting Screw
49. Plate Mounting Bracket

Air Releasing Strap Brake Only

9. Brake Strap
10. Air Fitting
11. Cylinder Cover Screw
12. Cylinder Cover
13. Cylinder Gasket
14. Piston
15. "O" Ring
16. Locknut
17. Adjusting Screw

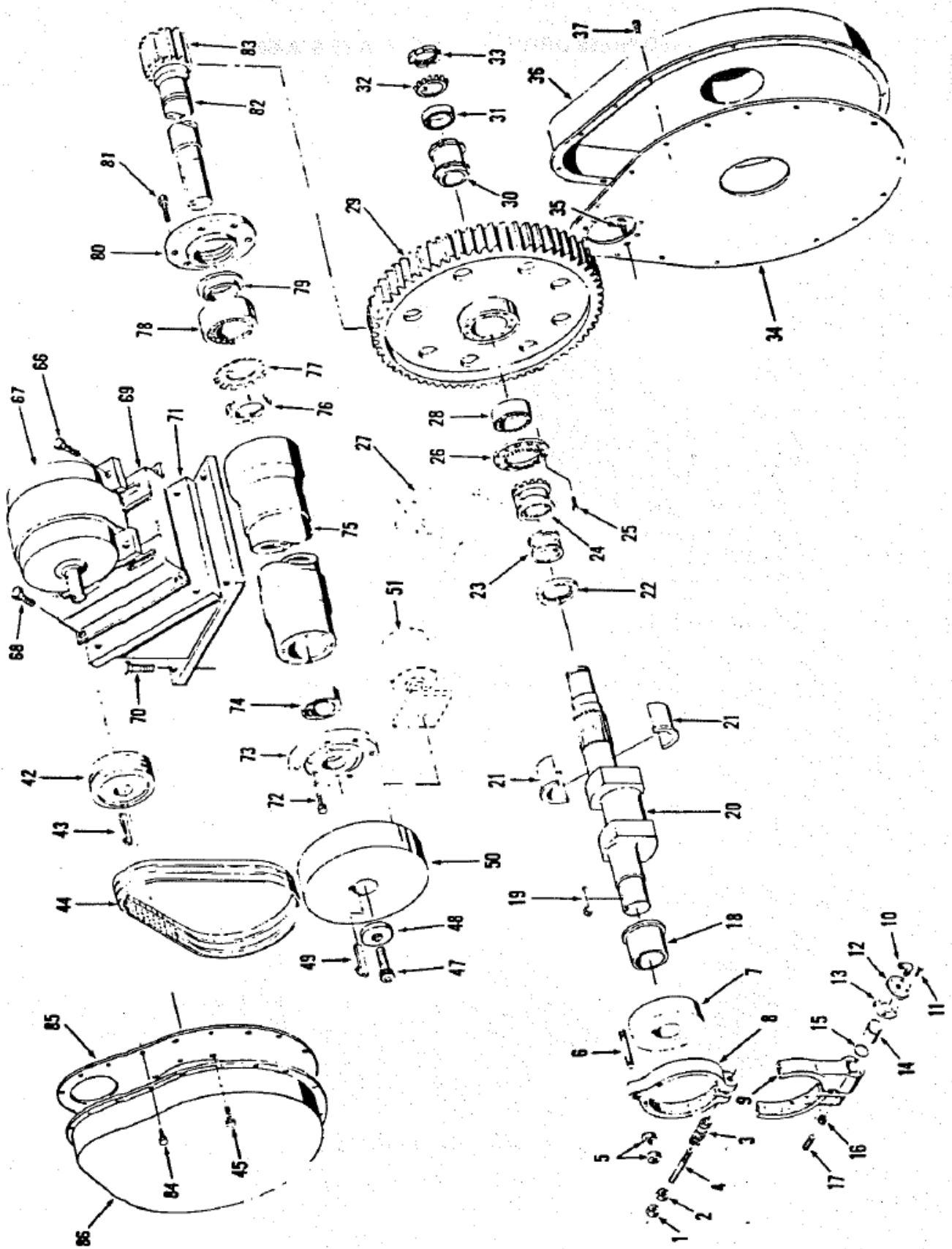


GEARED PRESS DRIVE (A-22, A-35, A-45 & A-60)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Brake Locknut 2. Brake Adjusting Nut 3. Brake Spring 4. Brake Spring Stud 5. Brake Mounting Nuts 6. Brake Strap Mounting Stud 7. Brake Collar 8. Drag Brake Strap 18. L. H. Bushing 19. Brake Collar Key 20. Crankshaft 21. R. H. Split Bushing 22. Clutch Cam 23. Clutch Spring 24. Clutch Sleeve 25. Clutch Ring Mounting Bolt 26. Clutch Ring 27. Latch Bracket (See separate Parts List) 28. Inner Bearing 29. Gear 30. Spacing Collar 31. Outer Bearing 32. Lockwasher 33. Locknut 34. Gear Guard Plate 35. Plate Mounting Screw 36. Gear Guard 37. Guard Mounting Screw 38. Base Mounting Screw 39. Adjustable Motor Base 40. Motor Mounting Screw 41. Main Motor 42. Sheave 43. Motor Key 44. Driving Belt | <ol style="list-style-type: none"> 45. Guard Mounting Screw 46. Flywheel Guard 47. Washer Mounting Screw 48. Clamp Washer 49. Flywheel Key 50. Flywheel 51. Flywheel Brake (Optional) 52. L. H. Bearing Spacer 53. Retainer Ring (not on A-22) 54. L. H. Bearing 55. Frame Mounting Screw (not on A-22) 56. L. H. Bearing Bracket (not on A-22) 57. Tube Mounting Screw (A-22 only) 58. Tube Mounting Collar (A-22 only) 59. Drive Shaft Tube (A-22 only) 60. R. H. Bearing Bracket (not on A-22) 61. Retainer Ring 62. R. H. Bearing 63. Retainer Ring 64. Drive Shaft 65. Bracket Mounting Screw (not on A-22) |
|--|---|

Air Releasing Strap Brake Only

9. Brake Strap
10. Air Fitting
11. Cylinder Cover Screw
12. Cylinder Cover
13. Cylinder Gasket
14. Piston
15. "O" Ring
16. Locknut
17. Adjusting Screw



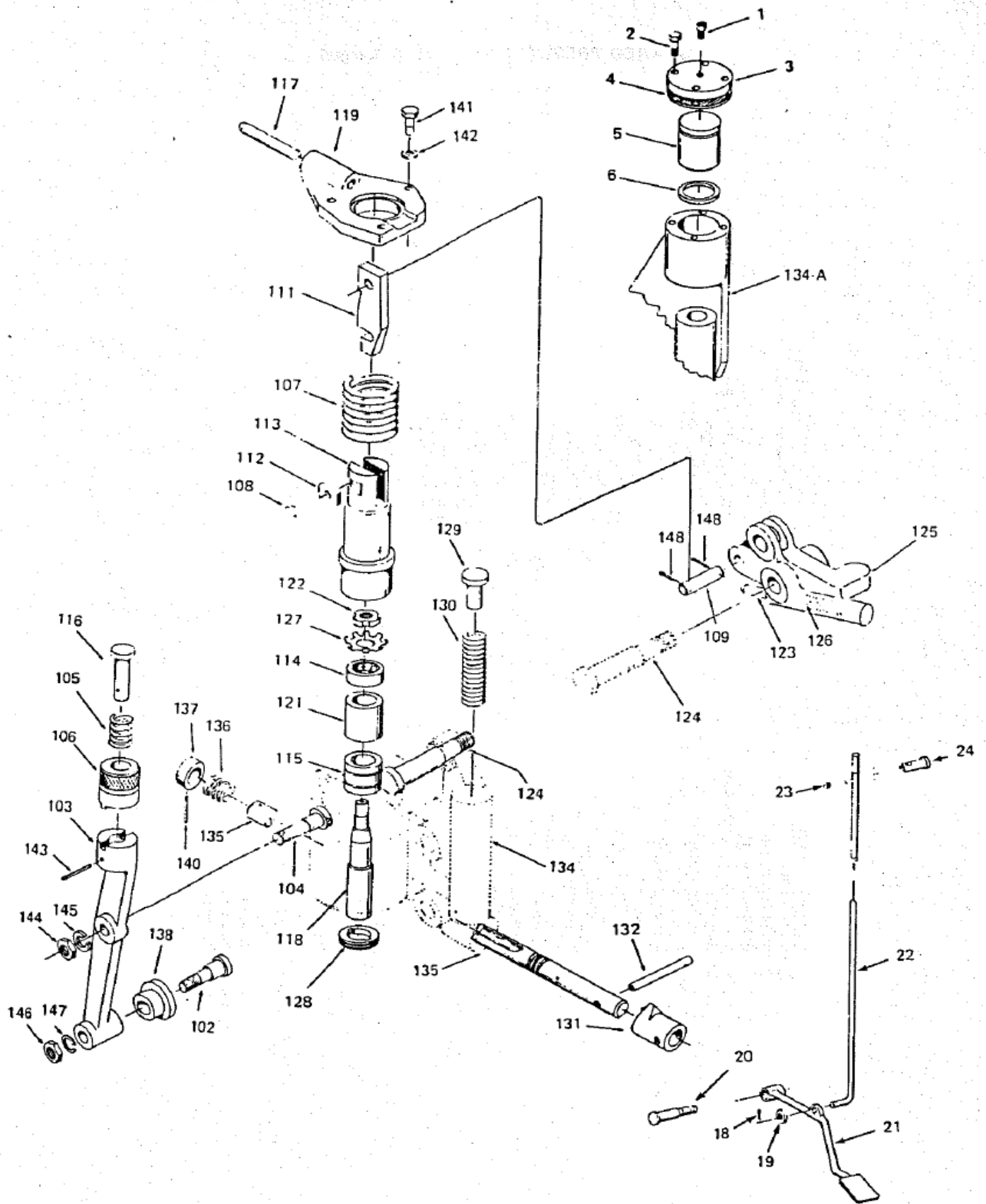
GEARED PRESS DRIVE (A-75 & Larger)

1. Brake Locknut
2. Brake Adjusting Nut
3. Brake Spring
4. Brake Spring Stud
5. Brake Mounting Nuts
6. Brake Strap Mounting Stud
7. Brake Collar
8. Drag Brake Strap
18. L. H. Bushing
19. Brake Collar Key
20. Crankshaft
21. R. H. Split Bushing
22. Clutch Cam
23. Clutch Spring
24. Clutch Sleeve
25. Clutch Ring Mounting Bolt
26. Clutch Ring
27. Latch Bracket (See separate Parts List)
28. Inner Bearing
29. Gear
30. Spacing Collar
31. Outer Bearing
32. Lockwasher
33. Locknut
34. Gear Guard Plate
35. Plate Mounting Screw
36. Gear Guard
37. Guard Mounting Screw
42. Sheave
43. Motor Key
44. Driving Bolt
45. Guard Mounting Screw
47. Washer Mounting Screw
48. Clamp Washer
49. Flywheel Key

50. Flywheel
51. Flywheel Brake (Optional)
66. Motor Mounting Screw
67. Main Motor
68. Base Mounting Screw
69. Adjustable Motor Base
70. Bracket Screw
71. Motor Mounting Bracket
72. Cover Screw
73. L. H. Bearing Cover
74. L. H. Bearing
75. Driveshaft Tube
76. Locknut
77. Lockwasher
78. R. H. Bearing
79. Bearing Spacer
80. R. H. Bearing Cover
81. Cover Mounting Screw
82. Driveshaft and Pinion
83. Pinion (Alone)
84. Plate Mounting Screw
85. Guard Backplate
86. Flywheel Guard

Air Releasing Strap Brake Only

9. Brake Strap
10. Air Fitting
11. Cylinder Cover Screw
12. Cylinder Cover
13. Cylinder Gasket
14. Piston
15. "O" Ring
16. Locknut
17. Adjusting Screw



LATCH BRACKET ASSEMBLY

- 102. Cam Roller Shaft
- 103. Cam Lever
- 104. Cam Lever Pin
- 105. Selector Knob Spring
- 106. Selector Knob
- 107. Throwout Spring
- 108. Throwout Pin
- 109. Latch Pin
- 111. Latch
- 112. Throwout Key
- 113. Throwout
- 114. Throwout Ball Bearing
- 115. Throwout Needle Bearing
- 116. Selector Knob Pin
- 117. Sliding Pin *
- 118. Throwout Shaft
- 119. Throwout Housing Cover
- 121. Spacing Collar
- 122. Lock Nut
- 123. Latch Spring Pin
- 124. Bell Crank Pin
- 125. Bell Crank
- 126. Latch Spring
- 127. Lock Washer
- 128. Throwout Shaft Collar
- 129. Treadle Spring Plunger
- 130. Treadle Spring
- 131. Locking Bar Indicator
- 132. Locking Bar Pin
- 134. Throwout Housing
- 135. Locking Bar
- 136. Locking Bar Spring
- 137. Locking Bar End Collar

- 138. Cam Roller
- 140. End Collar Roll Pin
- 141. Housing Cover Fastening Screw
- 142. Washer
- 143. Cam Lever Roll Pin
- 144. Cam Lever Pin Nut
- 145. Lockwasher
- 146. Cam Roller Shaft Nut
- 147. Lockwasher
- 148. Latch Pin Cotter Pins

Pneumatic Latch Bracket Only

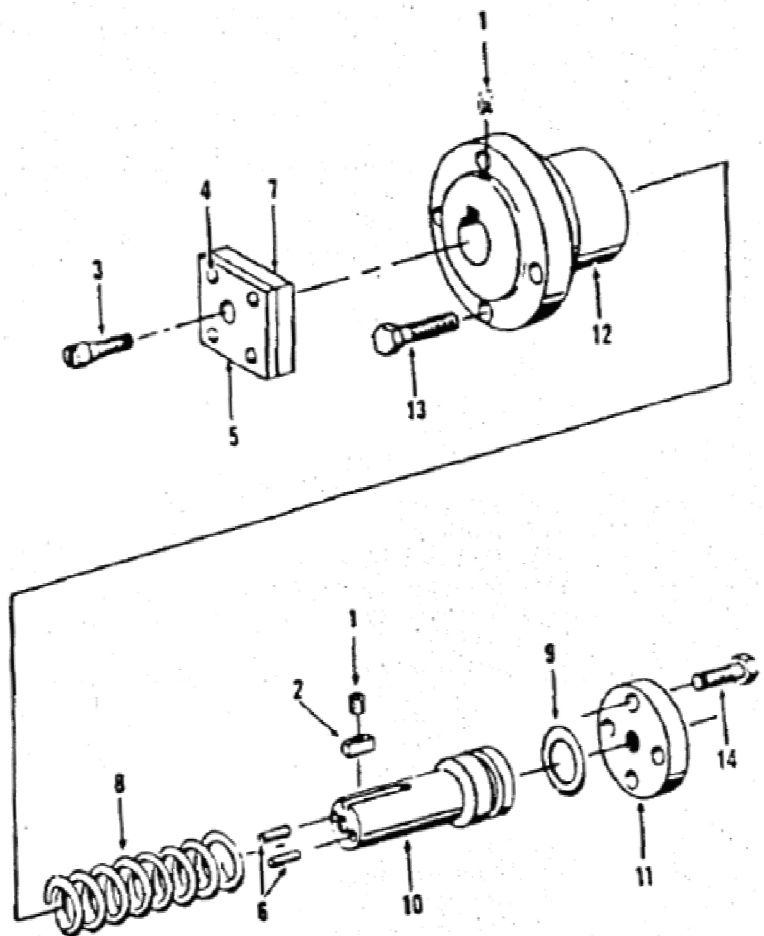
- 1. Air Fitting
- 2. Cover Mounting Screw
- 3. Cylinder Cover
- 4. Cylinder Gasket
- 5. Piston
- 6. "O" Ring
- 134. A. Air Trip Cylinder
(Special Throwout Housing)

Treadle Operated Only

- 18. Cotter Pin
- 19. Washer
- 20. Treadle Stud
- 21. Foot Treadle
- 22. Treadle Rod
- 23. Set Screw
- 24. Treadle Rod Pin

* See paragraph "Checking Single Stroke Back-up Device" page 14.

FLYWHEEL BRAKE (when furnished)

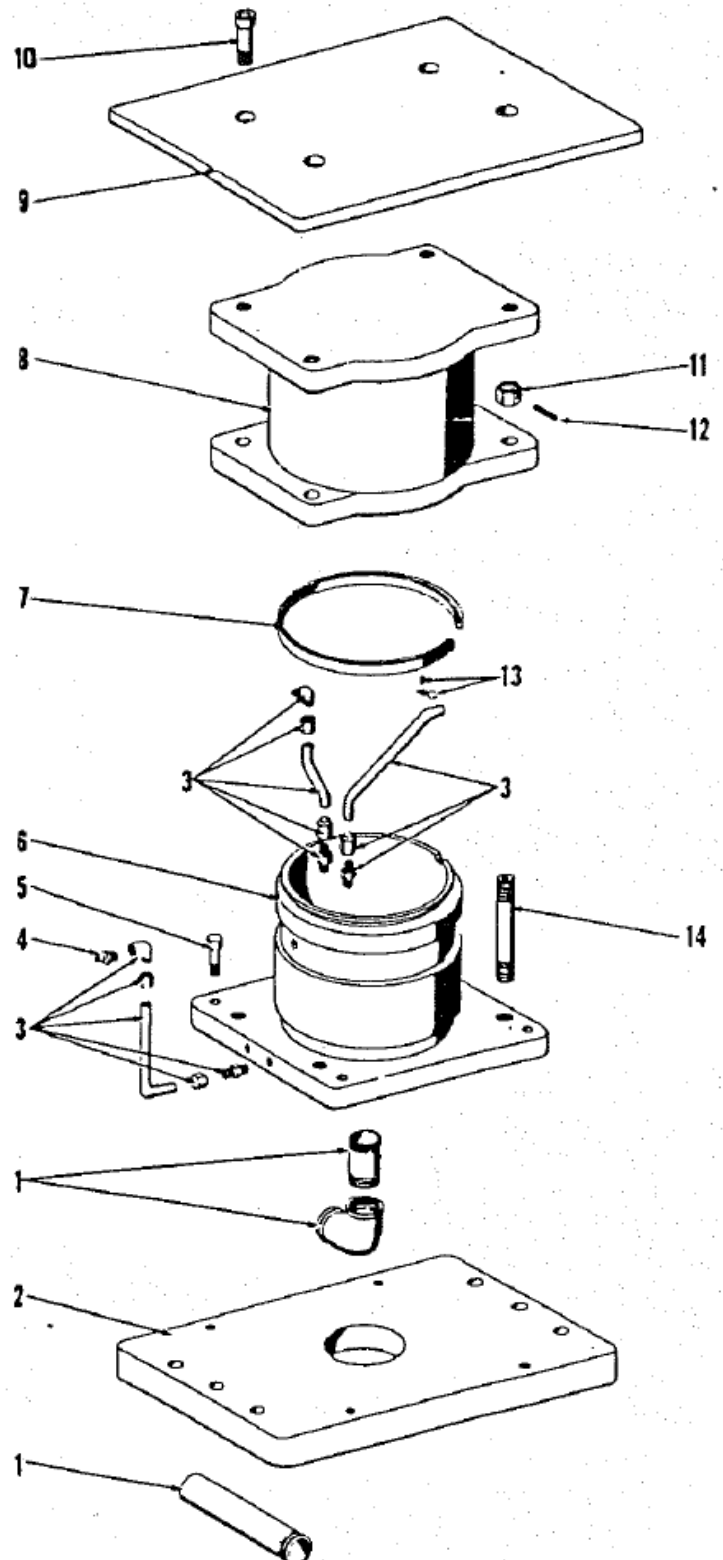


1. Key Dowel Pin
2. Guide Key
3. Mounting Screw
4. Rivet
5. Brake Lining
6. Dowel Pin
7. Brake Shoe
8. Spring
9. "O" Ring
10. Piston
11. Cylinder Cover
12. Cylinder
13. Cylinder Mounting Screw
14. Cover Mounting Screw

"C" TYPE CUSHION (when furnished)

WARNING
NEVER APPLY MORE THAN 5 PSI ON
CUSHION WITH BOLSTER OFF PRESS
OR WITH CUSHION OUT OF PRESS.

1. Air Piping (Furnished by Customer)
2. Mounting Plate
3. Lubrication Piping
4. Oil Fitting
5. Cylinder Mounting Screw
6. Cylinder
7. "U" Packing (Split for illustration purposes only)
8. Piston
9. Pressure Plate
10. Pressure Plate Mounting Screw
11. Stop Nut
12. Roll Pin
13. Lubrication Pipe Clip and Screw
14. Positive Stop Stud



AIR COUNTERBALANCE, SELF CONTAINED (when furnished)

1. Safety Valve
2. Fusible Plug
3. Acorn Nut
4. Seal Washer
5. Tie Rod
6. Cylinder Cover
7. Upper Gasket
8. Counterbalance Outer Cylinder
9. Counterbalance Cylinder
10. Lower Gasket
11. Counterbalance Rod Nut
12. Piston
13. "U" Packing
14. Counterbalance Rod
15. Lower Cylinder Cap
16. Pipe Nipple
17. Pipe Coupling
18. "U" Packing
19. Bushing
20. Bushing Retainer
21. Bushing Retainer Screw

