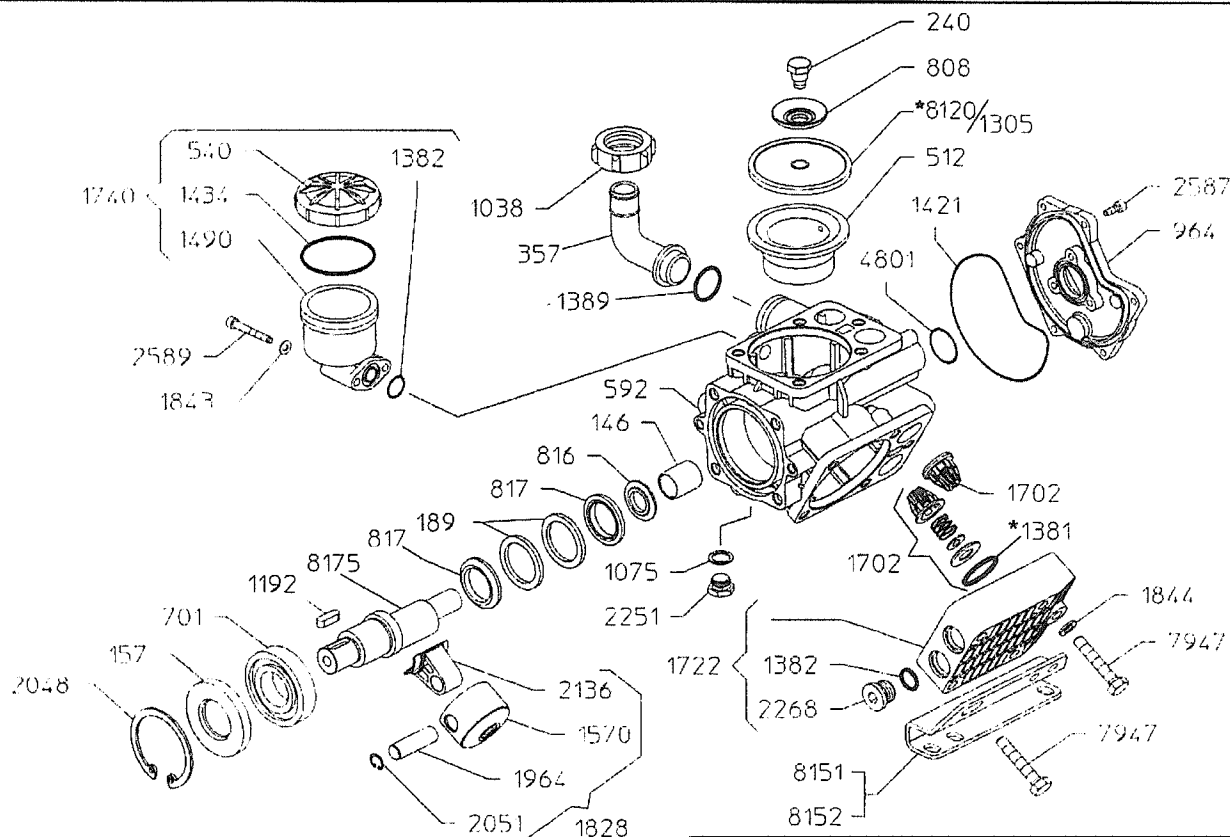
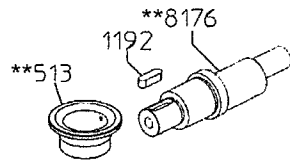


# KAPPA-33/43/53 - Exploded View Diagram & Parts List

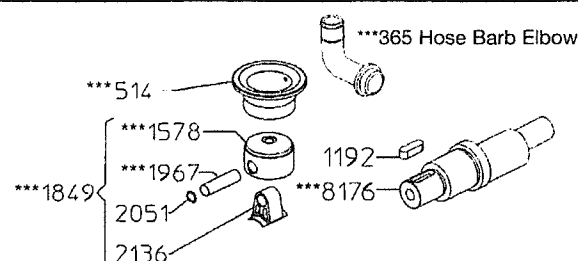


## KAPPA-33/43/53 PUMPS

Require 20 oz.  
**UDOR LUBE**  
or SAE 30W  
Non-detergent Oil



\*\*Parts for KAPPA-43 Only



\*\*\*Parts for KAPPA-53 Only

| REF#    | PART#      | DESCRIPTION                        | QTY | REF#    | PART#      | DESCRIPTION                         | QTY |
|---------|------------|------------------------------------|-----|---------|------------|-------------------------------------|-----|
| 146     | 02-0006.14 | Bearing                            | 1   | 1740    | 02-6033.01 | Oil Reservoir Assembly              | 1   |
| 157     | 02-0007.05 | Seal                               | 1   | 1828    | 02-6015.45 | Piston & Rod Assembly (KAPPA-33/43) | 3   |
| 189     | 02-0001.11 | Retaining Ring                     | 2   | 1843    | 02-1403.07 | Washer                              | 2   |
| 240     | 02-0102.04 | Diaphragm Bolt                     | 3   | 1844    | 02-1403.09 | Washer                              | 11  |
| 357     | 02-0202.18 | Suction Elbow                      | 1   | ***1849 | 02-6015.46 | Piston & Rod Assembly (KAPPA-53)    | 3   |
| ***365  | 02-0202.52 | Suction Elbow (KAPPA-53)           | 1   | 1964    | 02-1502.03 | Connecting Rod Pin (KAPPA-33/43)    | 3   |
| 512     | 02-0206.42 | Piston Sleeve (KAPPA-33)           | 3   | ***1967 | 02-1502.07 | Connecting Rod Pin (KAPPA-53)       | 3   |
| ***513  | 02-0206.41 | Piston Sleeve (KAPPA-43)           | 3   | 2048    | 02-1506.07 | Snap Ring                           | 1   |
| ***514  | 02-0206.43 | Piston Sleeve (KAPPA-53)           | 3   | 2051    | 02-1506.15 | Snap Ring                           | 6   |
| 540     | 02-0208.98 | Oil Reservoir Cap                  | 1   | 2136    | 02-1519.28 | Connecting Rod (KAPPA-33/43/53)     | 3   |
| 592     | 02-0209.73 | Crankcase                          | 1   | 2251    | 02-1603.02 | Plug                                | 1   |
| 701     | 02-0214.05 | Bearing                            | 1   | 2268    | 02-1603.32 | Head Plug                           | 6   |
| 808     | 02-0301.43 | Retaining Washer                   | 3   | 2587    | 02-1805.20 | Bolt                                | 6   |
| 816     | 02-0301.54 | Spacer                             | 1   | 2589    | 02-1805.31 | Bolt                                | 2   |
| 817     | 02-0302.66 | Spacer                             | 2   | 4801    | 02-1101.C3 | O-Ring                              | 1   |
| 964     | 02-0501.E2 | Body Flange                        | 1   | 7947    | 02-1804.21 | Head Bolt                           | 15  |
| 1038    | 02-0604.18 | Barb Nut                           | 1   | *8120   | 02-0903.50 | Piston Diaphragm (DESMOPAN)         | 3   |
| 1075    | 02-0605.43 | Gasket                             | 1   | 8151    | 02-1202.63 | Mounting Rail - Right Side          | 1   |
| 1192    | 02-0801.02 | Shaft Key                          | 1   | 8152    | 02-1202.64 | Mounting Rail - Left Side           | 1   |
| 1305    | 02-0903.43 | Piston Diaphragm (BUNA-N) optional | 3   | 8175    | 02-0002.B8 | Crankshaft (KAPPA-33)               | 1   |
| *1381   | 02-1101.27 | O-Ring                             | 6   | **8176  | 02-0002.B7 | Crankshaft (KAPPA-43/53)            | 1   |
| 1382    | 02-1101.29 | O-Ring                             | 7   |         |            |                                     |     |
| 1389    | 02-1101.41 | O-Ring                             | 1   |         |            |                                     |     |
| 1421    | 02-1101.88 | O-Ring                             | 1   |         |            |                                     |     |
| 1434    | 02-1101.D1 | O-Ring                             | 1   |         |            |                                     |     |
| 1490    | 02-1203.27 | Oil Reservoir                      | 1   |         |            |                                     |     |
| 1570    | 02-1205.07 | Piston (KAPPA-33/43)               | 3   |         |            |                                     |     |
| ***1578 | 02-1205.18 | Piston (KAPPA-53)                  | 3   |         |            |                                     |     |
| 1702    | 02-6006.01 | Valve Assembly                     | 6   |         |            |                                     |     |
| 1722    | 02-6017.13 | Head Assembly                      | 3   |         |            |                                     |     |

\* Parts included in Diaphragm Repair Kit - Part #8700.45  
Diaphragm Repair Kit also available in BUNA-N - Part #8700.46  
\*\* Parts for KAPPA-43 only.  
\*\*\* Parts for KAPPA-53 only.



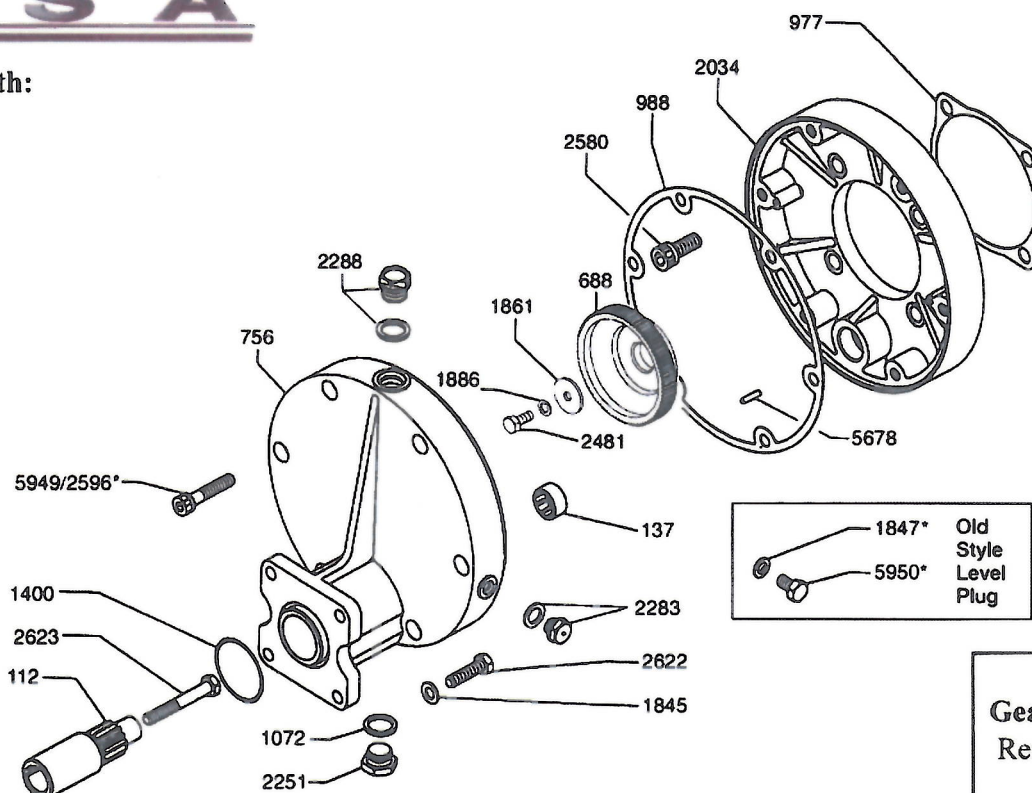
# 5071.75 Gear Reduction Parts List and Installation Instructions

For use with:

KAPPA-33

KAPPA-43

KAPPA-53



**5071.75  
Gear Reduction  
Requires 16 oz.  
of 90W  
Gear Lube**

| REF#  | PART#   | DESCRIPTION                 | QTY | REF#  | PART#   | DESCRIPTION                | QTY |
|-------|---------|-----------------------------|-----|-------|---------|----------------------------|-----|
| 112   | 0004.18 | Engine Gear                 | 1   | 2034  | 1505.29 | Gear Case Half             | 1   |
| 137   | 0006.08 | Bearing                     | 1   | 2251  | 1603.02 | Oil Plug                   | 1   |
| 688   | 0213.41 | Pump Gear                   | 1   | 2283  | 1603.69 | Oil Sight Gauge            | 1   |
| 756   | 0228.23 | Gear Case Half              | 1   | 2288  | 1603.81 | Vent Cap                   | 1   |
| 977   | 0602.05 | Gasket                      | 1   | 2481  | 1804.07 | Bolt                       | 1   |
| 988   | 0602.27 | Gasket                      | 1   | 2580  | 1805.01 | Bolt                       | 4   |
| 1072  | 0605.09 | Gasket                      | 1   | *2596 | 1805.23 | Bolt (old style) Allenhead | 6   |
| 1400  | 1101.57 | O-Ring                      | 1   | 2622  | 1807.07 | Bolt - 5/16"x1"            | 4   |
| 1845  | 1403.10 | Washer                      | 4   | 2623  | 1807.08 | Bolt - 5/16"x2-1/4"        | 1   |
| *1847 | 1403.12 | Aluminum Gasket (old style) | 1   | 5678  | 1512.08 | Guide Pin                  | 1   |
| 1861  | 1403.39 | Washer                      | 1   | 5949  | 1804.72 | Bolt                       | 6   |
| 1886  | 1411.03 | Lock Washer                 | 1   | *5950 | 1804.77 | Side Plug (old style)      | 1   |

**\*NOTE: USE BLUE THREADLOCKER 242 OR EQUIVALENT ON ALL BOLTS.**

1. Apply a light coating of anti-seize compound or grease to engine shaft and install 3/16" key, which is supplied with the engine.
2. Install engine gear (Ref #112) on engine shaft and secure with 5/16"x2-1/4" bolt (Ref #2623) provided.
3. Install o-ring (Ref #1400) into groove on gear box and mount assembly onto engine. Secure assembly to engine using the (4) 5/16"x1" bolts (Ref #2622) and (4) washers (Ref #1845) provided.
4. Fill gear box with 16 oz. of 90W gear lube to Oil Sight Gauge (Ref #2283).

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