

# LP301A-5100 / LP600-5100 Parts List

| <u>ITEM</u>                | <u>PART</u>                   | <u>DESCRIPTION</u>                  | <u>QTY</u> | <u>ITEM</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>PART</u> | <u>DESCRIPTION</u>                                          | <u>QTY</u> |                   |                       |                            |                               |                         |                         |  |                              |
|----------------------------|-------------------------------|-------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|------------|-------------------|-----------------------|----------------------------|-------------------------------|-------------------------|-------------------------|--|------------------------------|
| 1                          | 07759                         | Crankcase                           | 1          | 39A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07693       | Support Ring for 39<br>(LP301A-5100)                        | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 2                          | 13000                         | Oil Filler Plug Assembly            | 1          | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 07322       | V-Sleeve (LP600-5100)                                       | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 3                          | 05940                         | Cover Plate                         | 1          | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 06083       | V-Sleeve (LP301A-5100)                                      | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 3A                         | 07223-0100                    | Spring Ring                         | 2          | 40A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07268-0100  | Guide Ring (LP600-5100)                                     | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 3B                         | 05051-0100                    | Hexagon Screw                       | 2          | 40A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13366-0100  | Guide Ring (LP301A-5100)                                    | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 4                          | 06085                         | Crankcase Cover                     | 1          | 40B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07270-0100  | Support Ring for 40<br>(LP600-5100)                         | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 5                          | 07104                         | O-ring, Crankcase Cover             | 1          | 40B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13438       | Support Ring for 40<br>(LP301A-5100)                        | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 6                          | 05943                         | Oil Sight Glass Assembly            | 1          | 40C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07322-0020  | Sleeve (LP600-5100)                                         | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 8                          | 06086                         | Oil Dipstick Assembly               | 1          | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 07338       | Pressure Spring<br>(LP301A-5100)                            | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 9                          | 01009                         | O-Ring, (For Dipstick)              | 1          | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13040-5000  | Valve Casing                                                | 1          |                   |                       |                            |                               |                         |                         |  |                              |
| 10                         | 01010-0100                    | Cylinder Screw                      | 4          | 44A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07150       | O-Ring                                                      | 9          |                   |                       |                            |                               |                         |                         |  |                              |
| 11                         | 01011-0400                    | Spring Ring                         | 13         | 44B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 06266       | Support Ring for O-Ring                                     | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 12                         | 07109-0400                    | Plug, 1/2" BSP                      | 1          | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 06078       | Compression Spring                                          | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 13                         | 06015                         | O-Ring                              | 1          | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 08286       | Valve Assembly, LP600-5100<br>(46A-E)                       | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 14                         | 07111                         | Bearing Cover                       | 2          | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 07060-0100  | Valve Assembly, LP301A-5100<br>(46A-E)                      | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 15                         | 07112                         | Radial Shaft Seal                   | 2          | 46A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07064-0100  | Valve Seat                                                  | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 16                         | 07113                         | O-Ring for Bearing Cover            | 2          | 46B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13130       | Valve Plate (LP600-5100)                                    | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 17                         | 07114-0100                    | Hexagon Screw                       | 8          | 46B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07063-0100  | Valve Plate (LP301A-5100)                                   | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 20                         | 07116                         | Taper Roller Bearing                | 2          | 46C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07062-0100  | Valve Spring                                                | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 20A                        | 07117                         | Fitting Disc                        | 1-3        | 46D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05472       | Spacer Pipe (LP600-5100)                                    | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 20B                        | 13001                         | Fitting Disc                        | 1-3        | 46D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07066       | Spacer Pipe (LP301A-5100)                                   | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 21                         | 05376                         | Shaft Protector                     | 1          | 46E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05473       | Valve Spring Guide<br>(LP600-5100)                          | 6          |                   |                       |                            |                               |                         |                         |  |                              |
| 21A                        | 05377                         | Shaft Guard Holder                  | 1          | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 06077-0100  | Plug                                                        | 3          |                   |                       |                            |                               |                         |                         |  |                              |
| 22                         | 13242                         | Crankshaft                          | 1          | 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 07157       | Stud Bolt                                                   | 8          |                   |                       |                            |                               |                         |                         |  |                              |
| 23                         | 13243                         | Key                                 | 1          | 49A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07158       | Hexagon Nut                                                 | 8          |                   |                       |                            |                               |                         |                         |  |                              |
| 24                         | 13340                         | Connecting Rod Assembly             | 3          | 49B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 07159       | Disc                                                        | 8          |                   |                       |                            |                               |                         |                         |  |                              |
| 24A                        | 13277                         | Inner Hex Screw                     | 6          | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13020       | Disc for Crankshaft                                         | 1          |                   |                       |                            |                               |                         |                         |  |                              |
| 24B                        | 13278                         | Spring Washer                       | 6          | 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 04561       | Hexagon Screw                                               | 1          |                   |                       |                            |                               |                         |                         |  |                              |
| 25                         | 13341                         | Crosshead Assy.                     | 3          | 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13044-0100* | Plug, G 1" BSP                                              | 1          |                   |                       |                            |                               |                         |                         |  |                              |
| 28                         | 13232                         | Crosshead Pin                       | 3          | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13151-0100* | Plug, G 1-1/4" BSP                                          | 1          |                   |                       |                            |                               |                         |                         |  |                              |
| 29A                        | 07125                         | Centering Sleeve                    | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05437-0100  | Manifold Assembly, LP600-5100<br>(43-48/54/55)              |            |                   |                       |                            |                               |                         |                         |  |                              |
| 29B                        | 07126                         | Plunger Pipe (LP600-5100)           | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 04533-0100  | Manifold Assembly, LP301A-5100<br>(43-48/54/55)             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 29B                        | 07127                         | Plunger Pipe (LP301A-5100)          | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05445-0100  | Crankcase Assembly,<br>(1-29A/30/31/49/49A-B/52/53)         |            |                   |                       |                            |                               |                         |                         |  |                              |
| 29C                        | 07131-0100                    | Tensioning Screw                    | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 04868-0100  | Plunger Conversion Assembly,<br>LP600-5100, (29B-D/35-40B)  |            |                   |                       |                            |                               |                         |                         |  |                              |
| 29D                        | 07161A-0100                   | Steel Ring                          | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 04869-0100  | Plunger Conversion Assembly,<br>LP301A-5100, (29B-D/35-40C) |            |                   |                       |                            |                               |                         |                         |  |                              |
| 30                         | 07779                         | Oil Scraper                         | 3          | <p><b>*BSP to NPT Adapters/Seals (sold separately)</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"><b>Inlet Port</b></td> <td style="width: 50%; padding: 2px;"><b>Discharge Port</b></td> </tr> <tr> <td style="padding: 2px;"><u>Adapter:</u> 13377-0100</td> <td style="padding: 2px;"><u>Adapter</u>*: 13373-0100/</td> </tr> <tr> <td style="padding: 2px;"><u>Seal:</u> 13376-0100</td> <td style="padding: 2px;"><u>Seal:</u> 13372-0100</td> </tr> <tr> <td></td> <td style="padding: 2px; text-align: center;"><i>*Rated up to 4000 PSI</i></td> </tr> </table> |             |                                                             |            | <b>Inlet Port</b> | <b>Discharge Port</b> | <u>Adapter:</u> 13377-0100 | <u>Adapter</u> *: 13373-0100/ | <u>Seal:</u> 13376-0100 | <u>Seal:</u> 13372-0100 |  | <i>*Rated up to 4000 PSI</i> |
| <b>Inlet Port</b>          | <b>Discharge Port</b>         |                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| <u>Adapter:</u> 13377-0100 | <u>Adapter</u> *: 13373-0100/ |                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| <u>Seal:</u> 13376-0100    | <u>Seal:</u> 13372-0100       |                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
|                            | <i>*Rated up to 4000 PSI</i>  |                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 31                         | 07133                         | Oil Seal                            | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 35                         | 13235-0100                    | Seal Sleeve (LP600-5100)            | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 35                         | 13364-0100                    | Seal Sleeve (LP301A-5100)           | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 36                         | 13237                         | Leakage Seal (LP600-5100)           | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 36                         | 13238                         | Leakage Seal (LP301A-5100)          | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 37                         | 13239-0100                    | Seal Case (LP600-5100)              | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 37                         | 13240-0100                    | Seal Case (LP301A-5100)             | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 38                         | 07140                         | O-Ring, Seal Case                   | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 38A                        | 13241                         | Support Ring for 38                 | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 39                         | 13012                         | O-Ring, Seal Case<br>(LP600-5100)   | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 39                         | 12055                         | O-Ring, Seal Case<br>(LP301A-5100)  | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |
| 39A                        | 13036                         | Support Ring for 39<br>(LP600-5100) | 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                             |            |                   |                       |                            |                               |                         |                         |  |                              |

# LP301A-5100 / LP600-5100 Repair Kits

## Plunger Packing Kits

### LP301A-5100 - # 09459-0100

*For pumps manufactured on or after 4/96*

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 36          | 13238         | Leakage Seal       | 3           |
| 38          | 07140         | O-Ring             | 3           |
| 38A         | 13241         | Support Ring       | 3           |
| 39          | 12055         | O-Ring             | 3           |
| 39A         | 07693         | Support Ring       | 3           |
| 40          | 06083         | V-Sleeve           | 6           |
| 40A         | 13366-0100    | Pressure Ring      | 3           |

### LP600-5100 - # 09197-0100

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 36          | 13237         | Leakage Seal       | 3           |
| 38          | 07140         | O-Ring             | 3           |
| 38A         | 13241         | Support Ring       | 3           |
| 39          | 13012         | O-Ring             | 3           |
| 39A         | 13036         | Support Ring       | 3           |
| 40          | 07322         | V-Sleeve           | 3           |
| 40A         | 07268-0100    | Pressure Ring      | 3           |
| 40C         | 07322-0100    | Sleeve             | 3           |

## Oil Seal Kit

### LP301A-5100 - # 09577

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 31          | 07133         | Oil Seal           | 3           |

## Valve Kits

### LP301A-5100 - # 09196-0100

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 44A         | 07150         | O-Ring             | 9           |
| 44B         | 06266         | Support Ring       | 3           |
| 46A         | 07064-0100    | Valve Seat         | 6           |
| 46B         | 07063-0100    | Valve Plate        | 6           |
| 46C         | 07062-0100    | Valve Spring       | 6           |

### LP600-5100 - # 09195

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 44A         | 07150         | O-Ring             | 9           |
| 44B         | 06266         | Support Ring       | 3           |
| 46A         | 07064-0100    | Valve Seat         | 6           |
| 46B         | 13130         | Valve Plate        | 6           |
| 46C         | 07062-0100    | Valve Spring       | 6           |

### LP600-5100 - # 09721

| <u>Item</u> | <u>Part #</u> | <u>Description</u> | <u>Qty.</u> |
|-------------|---------------|--------------------|-------------|
| 44A         | 07150         | O-Ring             | 9           |
| 44B         | 06266         | Support Ring       | 3           |
| 46A         | 07064-0100    | Valve Seat         | 6           |
| 46B         | 13130         | Valve Plate        | 6           |
| 46C         | 07062-0100    | Valve Spring       | 6           |
| 46D         | 05472         | Spacer Pipe        | 6           |
| 46E         | 05473         | Valve Spring Guide | 6           |