



## Chelsea PTO 890 Parts Manual

Pro Gear and Transmission presents Chelsea 890 Series PTO parts manual to assist in identifying the parts for your Chelsea Power Take Off unit.

If you need any assistance identifying the correct Power Take Off unit for your truck and equipment, contact your Chelsea replacement part specialists at Pro Gear and Transmission.

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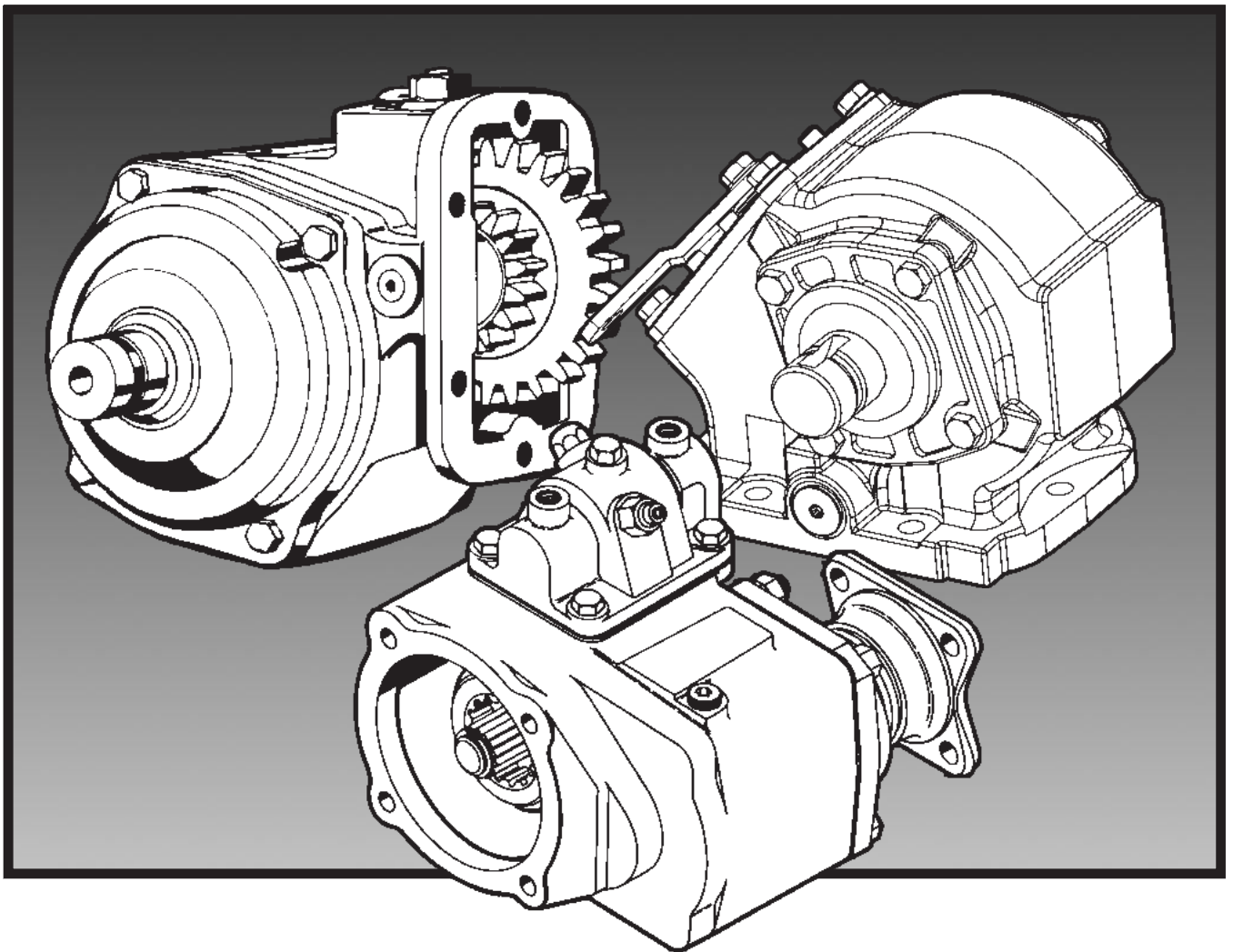
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## Parts List 890/897 Series

Effective: June 15, 2010

Supersedes: HY25-2890-M1/US January 15, 2010

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### **WARNING — User Responsibility**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

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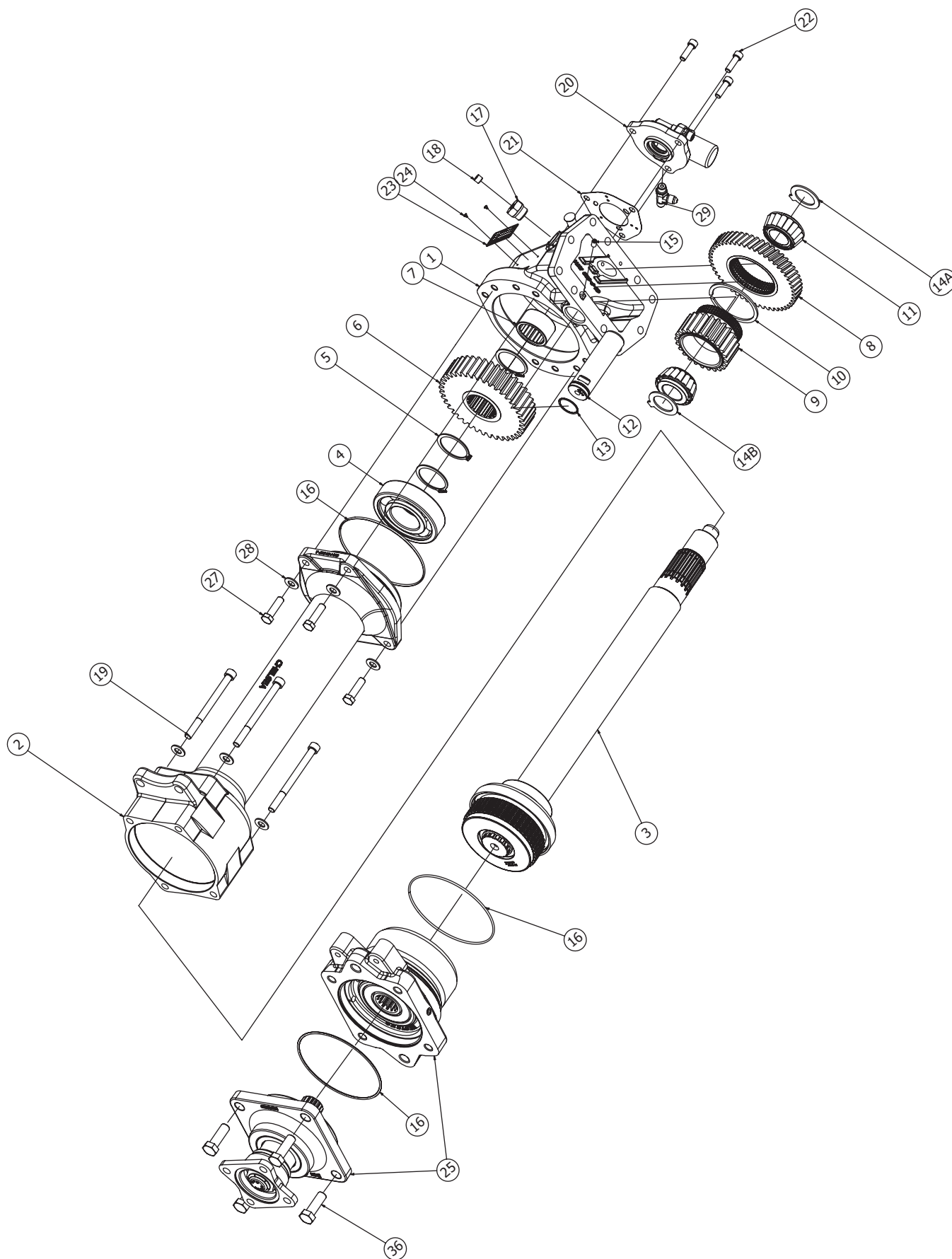


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## Bill of Materials

## Power Take-Offs

## 890 Series

| Item | Part Number     | Description                                                         | Quantity |
|------|-----------------|---------------------------------------------------------------------|----------|
| 1    | 1-P-629         | Housing 890 .....                                                   | 1        |
| 2    | 54-P-22         | Retainer Bearing 890 .....                                          | 1        |
| 3    | 329607X         | Ass'y Drive Shaft & Clutch.....                                     | 1        |
| 4    | 550026          | Bearing Ball 1.771" x 3.937" x .984" .....                          | 1        |
| 5    | 379668          | Lockring .....                                                      | 3        |
| 6    | See Chart Pg 17 | Gear Output.....                                                    | 1        |
| 7    | 560972          | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" .....          | 1        |
| 8    | See Chart Pg 17 | Gear Input.....                                                     | 1        |
| 9    | See Chart Pg 17 | Gear Ratio .....                                                    | 1        |
| 10   | 380064          | Lockring .....                                                      | 1        |
| 11   | 561026          | Bearing Tapered Cone 1.181" x .984" .....                           | 2        |
| 12   | 9-P-99          | Shaft Idler 1.180" .....                                            | 1        |
| 13   | 28-P-42         | O-Ring 1.051" x .070" .....                                         | 1        |
| 14A  | 14-P-82-1       | Spacer 1.191" x 1.750" x .080" .....                                | 1        |
| 14B  | 14-P-82-1       | Spacer 1.191" x 1.750" x .080" .....                                | A.R.     |
|      | 14-P-82-2       | Spacer 1.191" x 1.750" x .085" .....                                | A.R.     |
|      | 14-P-82-3       | Spacer 1.191" x 1.750" x .090" .....                                | A.R.     |
|      | 14-P-82-4       | Spacer 1.191" x 1.750" x .094" .....                                | A.R.     |
| 15   | 378452-7        | Set Screw SH .250"-20 x .500" .....                                 | 1        |
| 16   | 28-P-245        | O-Ring 5.017" x .103" ("XS", "XK", "AF", "XY", "AZ" Outputs).....   | 2        |
| 16   | 28-P-245        | O-Ring 5.017" x .103" ("XV", "AB", "AC" Outputs) .....              | 3        |
| 17   | 379242          | Adapter Straight .125"-27 x .750"-16 (w/o E.O.C. Only) .....        | 1        |
| 18   | 379231          | Plug Pipe .125"-27 (w/o E.O.C. Only) .....                          | 1        |
| 19   | 379433-18       | Capscrew SH .375"-16 x 4.500" .....                                 | 4        |
| 20   | 329463-12X      | Ass'y Valve Cap 12V (12 Volt) .....                                 | 1        |
|      | 329463-24X      | Ass'y Valve Cap 24V (24 Volt) .....                                 | 1        |
| 21   | 22-P-112        | Gasket .....                                                        | 1        |
| 22   | 378447-6        | Capscrew SH .312"-18 x 1.000" .....                                 | 3        |
| 23   | 68-P-2          | Plate Name.....                                                     | 1        |
| 24   | 378422          | Screw Drive .....                                                   | 2        |
| 25   | See Pgs 8-15    | Ass'y Output .....                                                  | 1        |
| 26   | 500897-5        | Plug Shipping .....                                                 | 2        |
| 27   | 378431-13       | Capscrew HH .375"-16 x 1.375" .....                                 | 4        |
| 28   | 380076-07       | Washer Flat Hardened .410" x .816" x .066" .....                    | 8        |
| 29   | 379659          | Tee .438"-20 .....                                                  | 2        |
| 30   | 379564-2        | Cap Shipping .....                                                  | 5        |
| 32   | 329403X         | Ass'y Seal Cap .....                                                | 1        |
| 33   | 379486          | Elbow 90° .438"-20 .....                                            | 1        |
| 34   | 379243          | Sensor Speed (w/E.O.C. Only) .....                                  | 1        |
| 35   | 28-P-171        | O-Ring .644" x .087" (w/E.O.C. Only) .....                          | 1        |
| 36   | 378433-14       | Capscrew HH .500"-13 x 1.500" ("XV", "AB", "AC" Outputs Only) ..... | 4        |
|      |                 | <b>Loose Parts</b>                                                  |          |
|      | 328948-36X      | Kit Gasket & Installation (All) .....                               | 1        |
|      | 7170-86X        | Kit Mounting (All) .....                                            | 1        |
|      | 329645-1X       | Kit Bracket & Hose ("L" Mount) .....                                | 1        |
|      | 329645-2X       | Kit Bracket & Hose ("R" Mount) .....                                | 1        |
|      | 329645-3X       | Kit Bracket & Hose ("H" Mount) .....                                | 1        |
|      | 329645-4X       | Kit Bracket & Hose ("E" Mount) .....                                | 1        |
|      | 329645-5X       | Kit Bracket & Hose ("T" Mount) .....                                | 1        |
|      | 329645-6X       | Kit Bracket & Hose ("U" Mount) .....                                | 1        |
|      | 329644-1X       | Kit Mounting & Installation ("XS" Output).....                      | 1        |
|      | 329644-2X       | Kit Mounting & Installation ("XK", "AF", "AZ" Output) .....         | 1        |
|      | 329644-3X       | Kit Mounting & Installation ("XY" Output).....                      | 1        |
|      | 329024-12X      | Kit Installation 12V ("B" Shift) .....                              | 1        |
|      | 329024-24X      | Kit Installation 24V ("D" Shift) .....                              | 1        |

A.R.—As Required

Continued On Next Page

## Bill of Materials

## 890 Series

| Item | Part Number | Description                                                           | Quantity |
|------|-------------|-----------------------------------------------------------------------|----------|
|      |             | <b>Loose Parts Continued</b>                                          |          |
|      | 329653-12X  | Kit Installation 12V Rem Valve w/o E.O.C. ("G" Shift) .....           | 1        |
|      | 329653-24X  | Kit Installation 24V Rem Valve w/o E.O.C. ("H" Shift) .....           | 1        |
|      | 329076X     | Kit Installation E.O.C. ("K", "L" Shift) .....                        | 1        |
|      | 328924-12X  | Ass'y Speed Limiter 12V ("K" Shift) .....                             | 1        |
|      | 328924-24X  | Ass'y Speed Limiter 24V ("L" Shift) .....                             | 1        |
|      | 329057-4X   | Hose Assembly (Remote Valve Option Only) (All Mounts) .....           | 1        |
|      | 328075X     | Hose Assembly (Remote Valve Option Only) (All Mounts) .....           | 1        |
|      | 329130-2X   | Hose Assembly (Remote Valve Option Only) (All Mounts) .....           | 1        |
|      | 329130-5X   | Hose Assembly (Remote Valve Option Only) ("L", "H", "E" Mounts) ..... | 1        |
|      | 329075-1X   | Hose Assembly (Remote Valve Option Only) ("R" Mount) .....            | 1        |
|      | 329075-4X   | Hose Assembly (Remote Valve Option Only) ("T", "U" Mounts) .....      | 1        |
|      | 329654X     | Kit Cover (Optional) ("XS" Output) .....                              | 1        |
|      | 329658X     | Kit Cover (Optional) ("XK", "AF", "AZ" Output) .....                  | 1        |
|      | 329659X     | Kit Cover (Optional) ("XY" Output) .....                              | 1        |
|      |             | <b>Service Parts</b>                                                  |          |
|      | 329071-46X  | Kit Gasket & Seal ("XS", "XK", "AF", "AZ" Outputs) .....              | 1        |
|      | 329071-47X  | Kit Gasket & Seal ("XY" Output) .....                                 | 1        |
|      | 329071-48X  | Kit Bearing ("XS", "XK", "AF", "AZ" Outputs) .....                    | 1        |
|      | 329071-49X  | Kit Bearing ("XY" Output) .....                                       | 1        |
|      | 329071-50X  | Kit Clutch Repair .....                                               | 1        |
|      | 329354-12X  | Conversion Kit 12V Remote Mount Valve .....                           | 1        |
|      | 329354-24X  | Conversion Kit 24V Remote Mount Valve .....                           | 1        |
|      | 329160-63X  | Kit Conversion "XS" To "XV" ("XS" Output) .....                       | 1        |
|      | 329160-64X  | Kit Conversion "XS" To "AB" ("XS" Output) .....                       | 1        |
|      | 329160-65X  | Kit Conversion "XS" To "AC" ("XS" Output) .....                       | 1        |

A.R.—As Required

**329645-1X Kit Bracket & Hose Assembly**

| Item | Part Number | Description                             | Quantity |
|------|-------------|-----------------------------------------|----------|
| 1    | 329130-11X  | Ass'y Hose.....                         | 1        |
| 2    | 50-P-60     | Bracket Rear Support-MD Left Side ..... | 1        |
| 3    | 329130-2X   | Ass'y Hose.....                         | 1        |

**329645-2X Kit Bracket & Hose Assembly**

| Item | Part Number | Description                             | Quantity |
|------|-------------|-----------------------------------------|----------|
| 1    | 329130-11X  | Ass'y Hose.....                         | 2        |
| 2    | 50-P-61     | Bracket Rear Support-MD Right Side..... | 1        |

**329645-3X Kit Bracket & Hose Assembly**

| Item | Part Number | Description                             | Quantity |
|------|-------------|-----------------------------------------|----------|
| 1    | 329130-11X  | Ass'y Hose.....                         | 1        |
| 2    | 50-P-62     | Bracket Rear Support-MD Left Side ..... | 1        |
| 3    | 329130-2X   | Ass'y Hose.....                         | 1        |

**329644-1X Kit Mounting & Installation "XS" Output**

| Item | Part Number | Description                                   | Quantity |
|------|-------------|-----------------------------------------------|----------|
| 1    | 379556      | Tee .438"-20 .....                            | 1        |
| 2    | 3 AOE5-S    | Elbow 90° .....                               | 1        |
| 3    | 379964      | Adapter Restriction .438"-20 x .125"-27 ..... | 1        |
| 4    | 500841-1    | Elbow .127"-27 Pipe .....                     | 1        |
| 5    | 380071      | Capscrew SH Shoulder .375"-16 x 3.375" .....  | 2        |
| 6    | 380075      | Capscrew HH M12 x 1.750" x 2.17" .....        | 3        |
| 7    | 28-P-245X   | O-Ring 5.017" x .103" .....                   | 2        |
| 8    | 378431-13   | Capscrew HH .375"-16 x 1.375" .....           | 4        |
| 9    | SK-461      | Fitting Instructions .....                    | 1        |

**329644-2X Kit Mounting & Installation "XK", "AF", "AZ" Output**

| Item | Part Number | Description                                   | Quantity |
|------|-------------|-----------------------------------------------|----------|
| 1    | 379556      | Tee .438"-20 .....                            | 1        |
| 2    | 3 AOE5-S    | Elbow 90° .....                               | 1        |
| 3    | 379964      | Adapter Restriction .438"-20 x .125"-27 ..... | 1        |
| 4    | 500841-1    | Elbow .127"-27 Pipe .....                     | 1        |
| 5    | 380071      | Capscrew SH Shoulder .375"-16 x 3.375" .....  | 2        |
| 6    | 380075      | Capscrew HH M12 x 1.750" x 2.170" .....       | 3        |
| 7    | 28-P-245X   | O-Ring 5.017" x .103" .....                   | 1        |
| 8    | 378431-13   | Capscrew HH .375"-16 x 1.375" .....           | 4        |
| 9    | SK-461      | Fitting Instructions .....                    | 1        |
| 10   | 28-P-259X   | O-Ring 3.984" x .139" .....                   | 1        |

**329644-3X Kit Mounting & Installation "XY" Output**

| Item | Part Number | Description                                   | Quantity |
|------|-------------|-----------------------------------------------|----------|
| 1    | 379556      | Tee .438"-20 .....                            | 1        |
| 2    | 3 AOE5-S    | Elbow 90° .....                               | 1        |
| 3    | 379964      | Adapter Restriction .438"-20 x .125"-27 ..... | 1        |
| 4    | 500841-1    | Elbow .127"-27 Pipe .....                     | 1        |
| 5    | 380071      | Capscrew SH Shoulder .375"-16 x 3.375" .....  | 2        |
| 6    | 380075      | Capscrew HH M12 x 1.75" x 2.17" .....         | 3        |
| 7    | 28-P-245    | O-Ring 5.017" x .103" .....                   | 1        |
| 8    | 378431-13   | Capscrew HH .375"-16 x 1.375" .....           | 4        |
| 9    | SK-461      | Fitting Instructions .....                    | 1        |
| 10   | 28-P-252X   | O-Ring 2.987" x .103" .....                   | 1        |

**Gasket & Seal, Bearing & Clutch Kits****890 Series****329071-46X Kit Gasket & Seal “XS”, “XK”, “AF”, “AZ” Output**

| Item | Part Number | Description                            | Quantity |
|------|-------------|----------------------------------------|----------|
| 1    | 22-P-112    | Gasket Valve Cap .....                 | 1        |
| 2    | 28-P-42     | O-Ring 1.051" x .070" .....            | 1        |
| 3    | 28-P-119    | Oil Seal 1.379" x .875" x .249" .....  | 1        |
| 4    | 28-P-178    | O-Ring 4.484" x .138" .....            | 1        |
| 5    | 28-P-245    | O-Ring 5.017" x .103" .....            | 2        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" ..... | 1        |
| 7    | 28-P-285    | O-Ring 1.597" x .103" .....            | 2        |

**329071-47X Kit Gasket & Seal “XY” Output**

| Item | Part Number | Description                            | Quantity |
|------|-------------|----------------------------------------|----------|
| 1    | 22-P-112    | Gasket Valve Cap .....                 | 1        |
| 2    | 28-P-42     | O-Ring 1.051" x .070" .....            | 1        |
| 3    | 28-P-119    | Oil Seal 1.379" x .875" x .249" .....  | 1        |
| 4    | 28-P-178    | O-Ring 4.484" x .138" .....            | 1        |
| 5    | 28-P-245    | O-Ring 5.017" x .103" .....            | 2        |
| 6    | 28-P-267    | Oil Seal 2.627" x 1.750" x .312" ..... | 1        |
| 7    | 28-P-285    | O-Ring 1.597" x .103" .....            | 2        |

**329071-48X Kit Bearing “XS”, “XK”, “AF”, “AZ” Output**

| Item | Part Number | Description                                                | Quantity |
|------|-------------|------------------------------------------------------------|----------|
| 1    | 379668      | Lockring .....                                             | 4        |
| 2    | 379919      | Lockring .....                                             | 1        |
| 3    | 380070      | Lockring .....                                             | 1        |
| 4    | 550026      | Bearing Ball 1.771" x 3.937" x .984" .....                 | 1        |
| 5    | 560972      | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" ..... | 1        |
| 6    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....                 | 1        |
| 7    | 561026      | Bearing Tapered Cone 1.181" x .984" .....                  | 2        |
| 8    | 561028      | Bearing Ball 1.969" x 3.150" x .630" .....                 | 1        |
| 9    | 14-P-82-1   | Spacer 1.191" x 1.750" (.079"-.081") .....                 | 2        |
| 10   | 14-P-82-2   | Spacer 1.191" x 1.750" (.084"-.086") .....                 | 1        |
| 11   | 14-P-82-3   | Spacer 1.191" x 1.750" (.089"-.091") .....                 | 1        |
| 12   | 14-P-82-4   | Spacer 1.191" x 1.750" (.093"-.095") .....                 | 1        |

**329071-49X Kit Bearing “XY” Output**

| Item | Part Number | Description                                                | Quantity |
|------|-------------|------------------------------------------------------------|----------|
| 1    | 378263      | Lockring .....                                             | 1        |
| 2    | 379555      | Lockring .....                                             | 1        |
| 3    | 379668      | Lockring .....                                             | 3        |
| 4    | 380070      | Lockring .....                                             | 1        |
| 5    | 550026      | Bearing Ball 1.771" x 3.937" x .984" .....                 | 1        |
| 6    | 550311      | Bearing Ball 1.771" x 3.346" x .748" .....                 | 1        |
| 7    | 560972      | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" ..... | 1        |
| 8    | 561026      | Bearing Tapered Cone 1.181" x .984" .....                  | 2        |
| 9    | 561028      | Bearing Ball 1.969" x 3.150" x .630" .....                 | 1        |
| 10   | 14-P-82-1   | Spacer 1.191" x 1.750" (.079"-.081") .....                 | 2        |
| 11   | 14-P-82-2   | Spacer 1.191" x 1.750" (.084"-.086") .....                 | 1        |
| 12   | 14-P-82-3   | Spacer 1.191" x 1.750" (.089"-.091") .....                 | 1        |
| 13   | 14-P-82-4   | Spacer 1.191" x 1.750" (.093"-.095") .....                 | 1        |

**329071-50X Kit Clutch Repair**

| Item | Part Number | Description                   | Quantity |
|------|-------------|-------------------------------|----------|
| 1    | 379485      | Disc Friction 275 .....       | 11       |
| 2    | 380051      | Cylinder Clutch Back-Up ..... | 1        |
| 3    | 380110X     | Piston Clutch .....           | 1        |
| 4    | 380065      | Plate Clutch .....            | 10       |
| 5    | 380069      | Lockring Internal .....       | 1        |
| 6    | 28-P-178    | O-Ring 4.484" x .138" .....   | 1        |
| 7    | 28-P-285    | O-Ring 1.597" x .103" .....   | 2        |

**329160-63X Kit Conversion “XS” to “XV”**

| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 329608-1X   | Ass'y Output ..... | 1        |
| 2    | 28-P-245    | O-Ring .....       | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

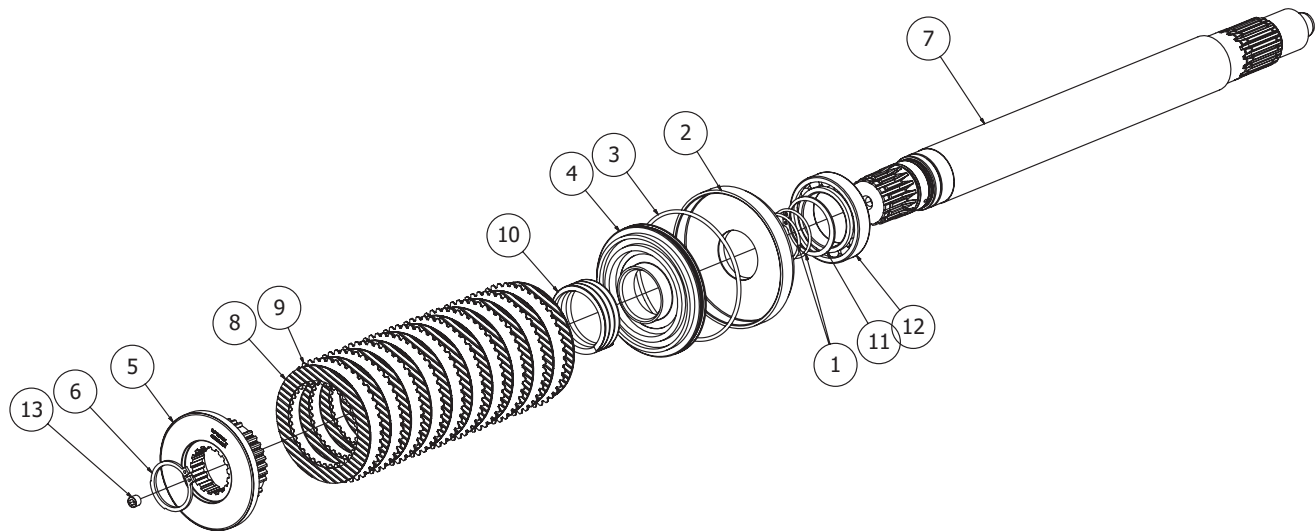
**329160-64X Kit Conversion “XS” to “AB”**

| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 28-P-245    | O-Ring .....       | 1        |
| 2    | 329608-2X   | Ass'y Output ..... | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

**329160-65X Kit Conversion “XS” to “AC”**

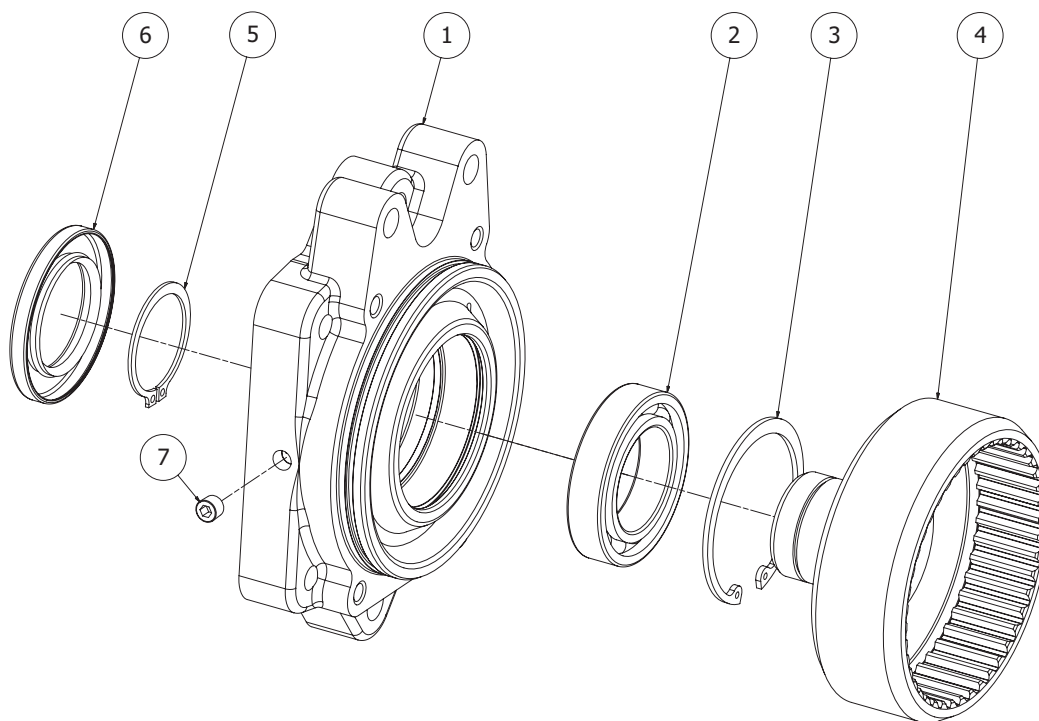
| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 329608-3X   | Ass'y Output ..... | 1        |
| 2    | 28-P-245    | O-Ring .....       | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

**329607X Drive Shaft & Clutch Assembly**



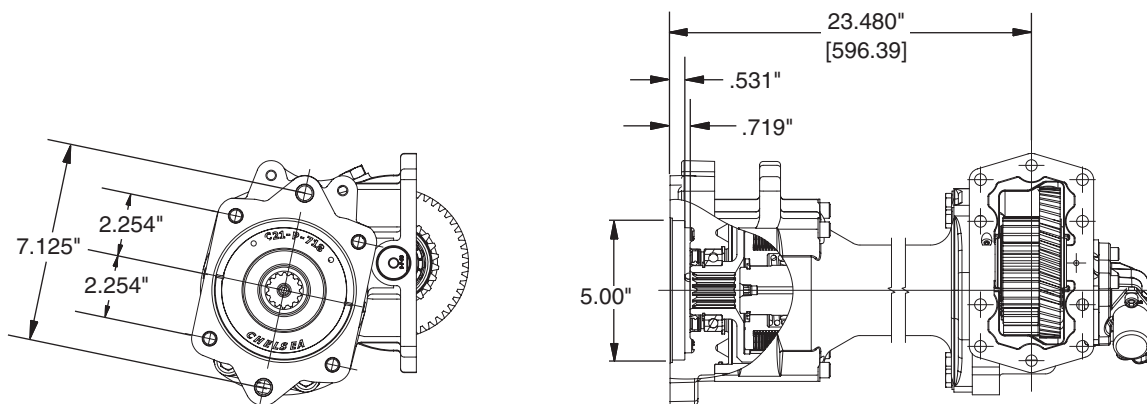
| Item | Part Number | Description                               | Quantity |
|------|-------------|-------------------------------------------|----------|
| 1    | 28-P-285    | O-Ring 1.597" x .103".....                | 2        |
| 2    | 380051      | Cylinder Clutch Back-Up .....             | 1        |
| 3    | 28-P-178    | O-Ring 4.484" x .138".....                | 1        |
| 4    | 380110X     | Piston Clutch .....                       | 1        |
| 5    | 2-P-858     | Gear Output 36 Tooth .....                | 1        |
| 6    | 380069      | Lockring .....                            | 1        |
| 7    | 3-P-1007    | Shaft Output .....                        | 1        |
| 8    | 379485      | Disc Friction.....                        | 11       |
| 9    | 380065      | Plate Clutch .....                        | 10       |
| 10   | 37-P-62     | Spring 2.140" x 1.729".....               | 1        |
| 11   | 380070      | Lockring .....                            | 1        |
| 12   | 561028      | Bearing Ball 1.969" x 3.150" x .630"..... | 1        |
| 13   | 379231      | Plug Pipe .125"-27.....                   | 1        |

## 329609-1X ("XS") S.A.E "C" 2 or 4-Bolt 1.25" - 14 Tooth

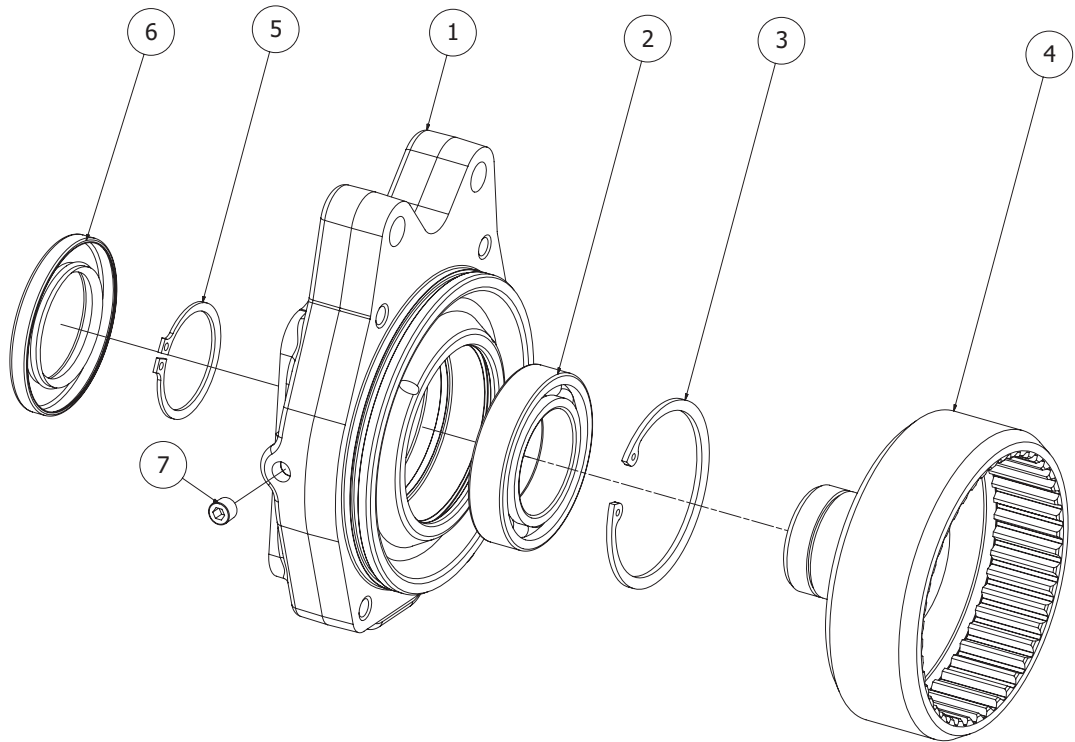


| Item | Part Number | Description                                            | Quantity |
|------|-------------|--------------------------------------------------------|----------|
| 1    | 21-P-717    | Flange Pump "XS" S.A.E. "C" 2 or 4-Bolt .....          | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....             | 1        |
| 3    | 379919      | Lockring .....                                         | 1        |
| 4    | 2-P-867     | Gear Output 1.250" - 14T Spline .....                  | 1        |
| 5    | 379668      | Lockring .....                                         | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....                 | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                               | 2        |
| N.S. | 28-P-259X   | O-Ring 3.984" x .139" (Wet Spline Pump Mounting) ..... | 1        |

N.S. — Not Shown

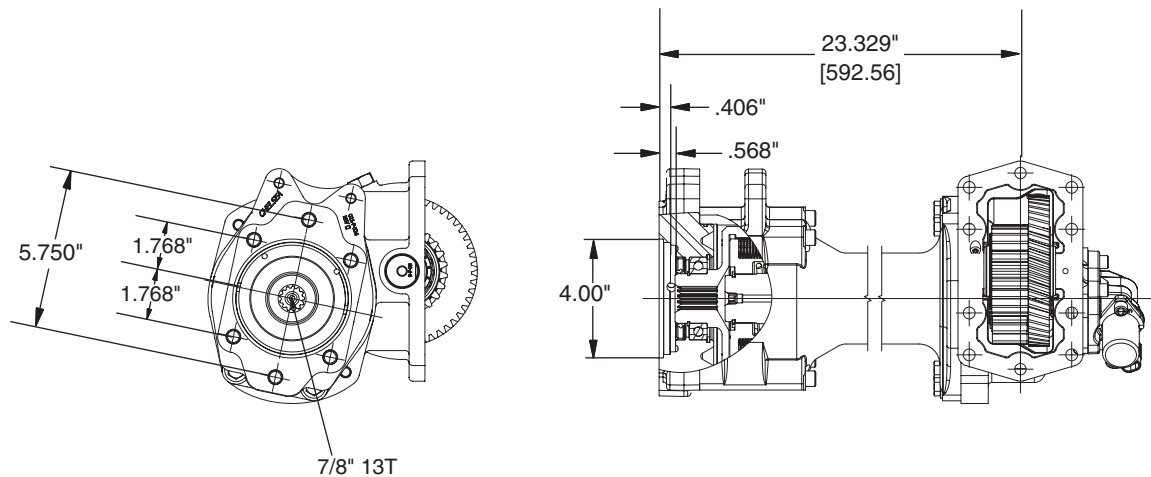


329609-2X ("XK") S.A.E. "B" 2 or 4-Bolt 7/8" - 13 Tooth

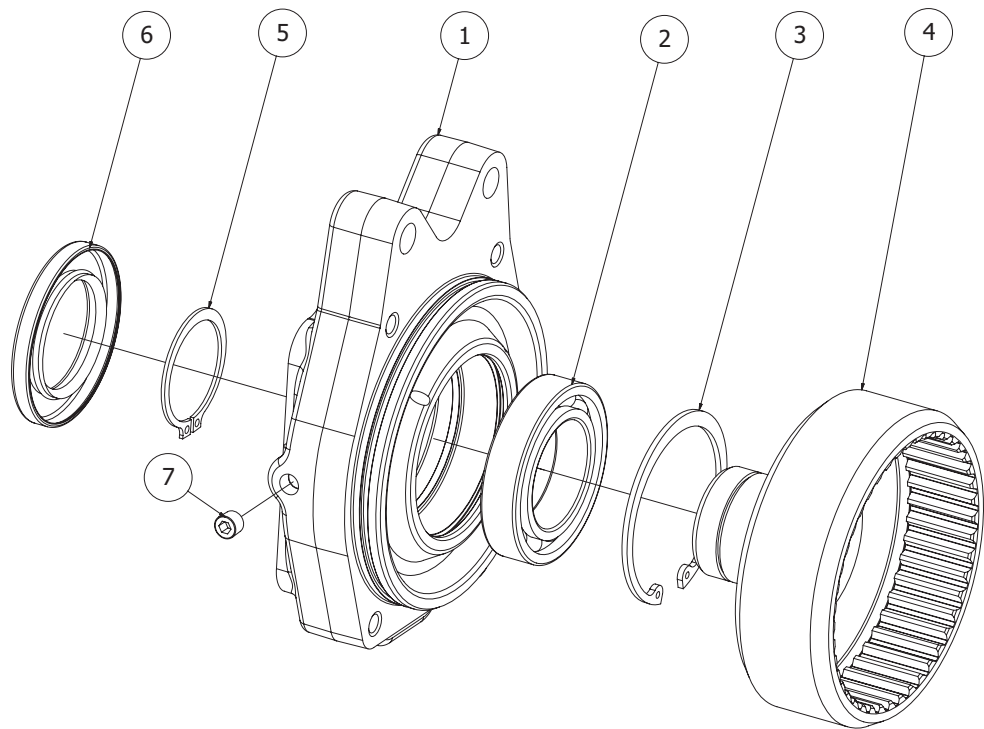


| Item | Part Number | Description                                            | Quantity |
|------|-------------|--------------------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump "XK" S.A.E. "B" 2 or 4-Bolt .....          | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....             | 1        |
| 3    | 379919      | Lockring .....                                         | 1        |
| 4    | 2-P-877     | Gear Output 7/8" - 13 Tooth .....                      | 1        |
| 5    | 379668      | Lockring .....                                         | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....                 | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                               | 2        |
| N.S. | 28-P-259X   | O-Ring 3.984" x .139" (Wet Spline Pump Mounting) ..... | 1        |

N.S. — Not Shown

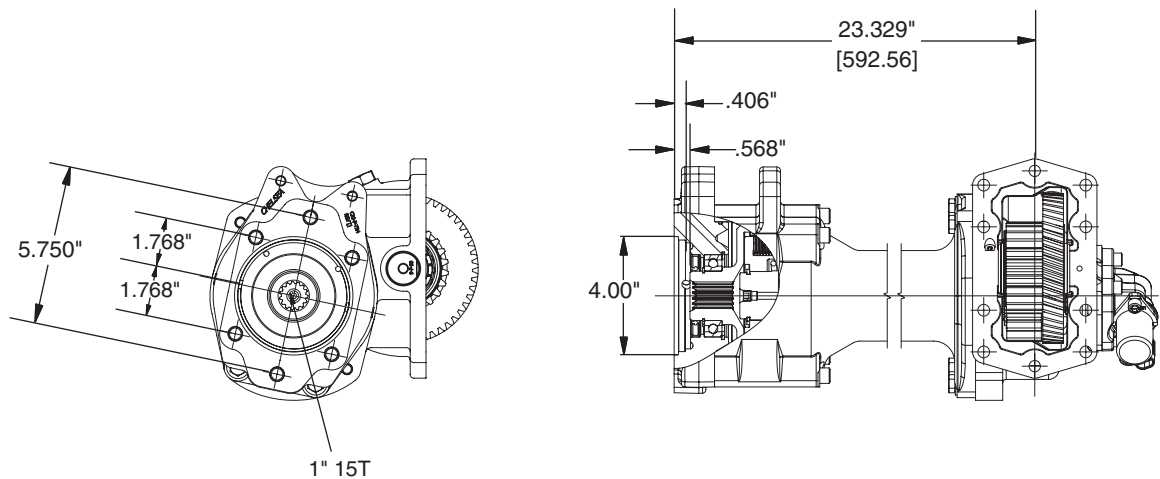


329609-3X (“AF”) S.A.E. “B-B” 2 or 4-Bolt 1.00" - 15 Tooth

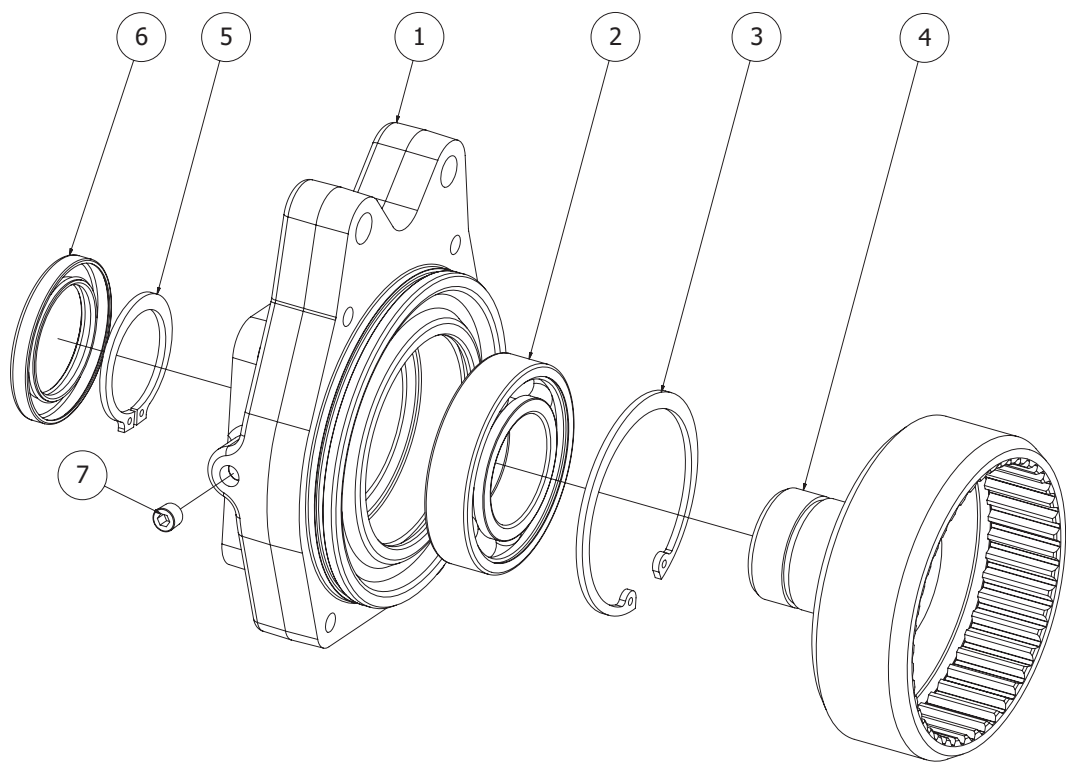


| Item | Part Number | Description                                            | Quantity |
|------|-------------|--------------------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump “XK” S.A.E. 2 or 4-Bolt.....               | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....             | 1        |
| 3    | 379919      | Lockring .....                                         | 1        |
| 4    | 2-P-875     | Gear Output 1.0" 15 Tooth Spline.....                  | 1        |
| 5    | 379668      | Lockring .....                                         | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....                 | 1        |
| 7    | 379231      | Plug Pipe .125"-27.....                                | 2        |
| N.S. | 28-P-259X   | O-Ring 3.984" x .139" (Wet Spline Pump Mounting) ..... | 1        |

N.S. — Not Shown

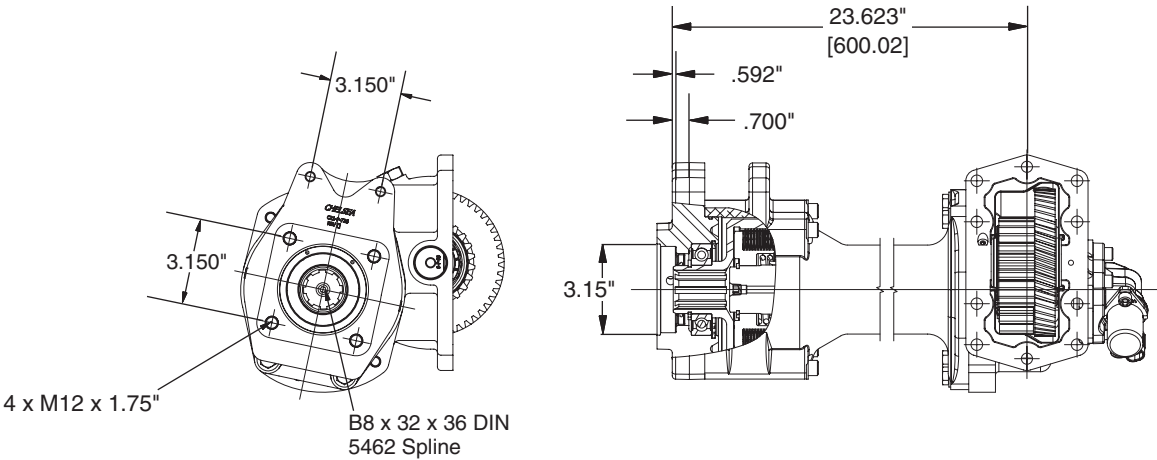


**329609-4X (“XY”) DIN 5462 4-Bolt - 8 Tooth**

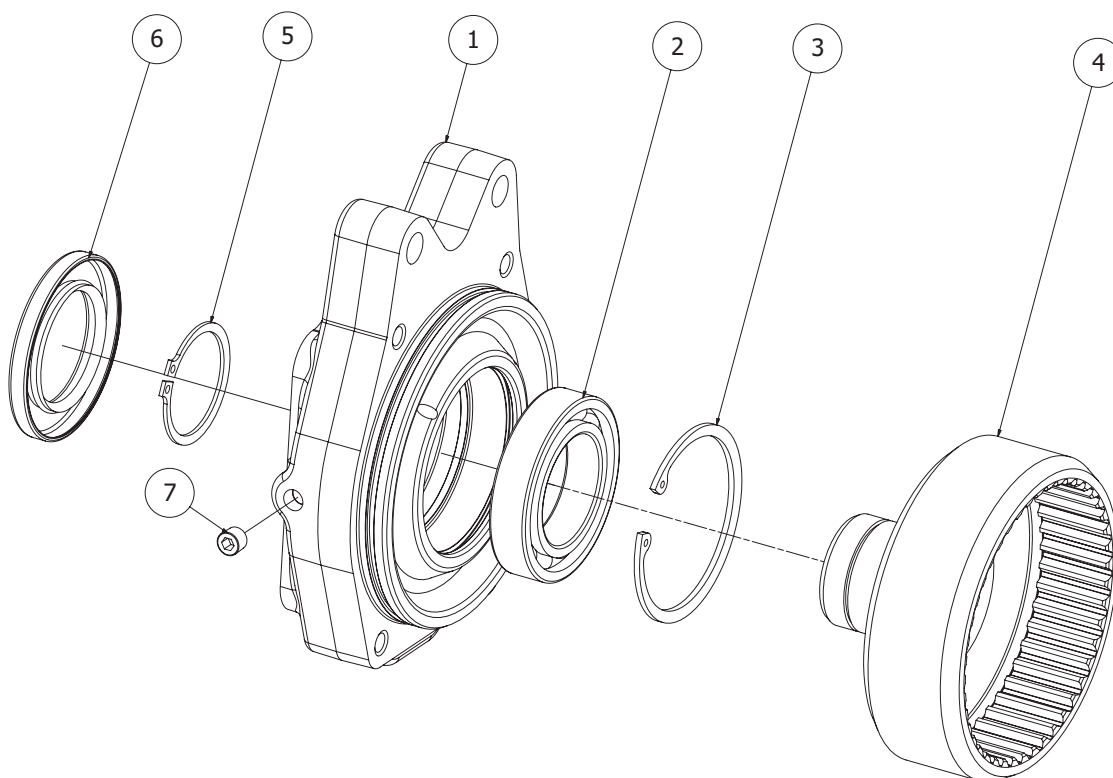


| Item | Part Number | Description                                           | Quantity |
|------|-------------|-------------------------------------------------------|----------|
| 1    | 21-P-725    | Flange Pump “XY” DIN 5462 4-Bolt.....                 | 1        |
| 2    | 550311      | Bearing Ball 1.770" x 3.346" x .748".....             | 1        |
| 3    | 378263      | Lockring.....                                         | 1        |
| 4    | 2-P-876     | Gear Output 8 Tooth Spline .....                      | 1        |
| 5    | 379555      | Lockring.....                                         | 1        |
| 6    | 28-P-267    | Oil Seal 2.627" x 1.750" x .312" .....                | 1        |
| 7    | 379231      | Plug Pipe .125"-27.....                               | 2        |
| N.S. | 28-P-259X   | O-Ring 3.984" x .139" (Wet Spline Pump Mounting)..... | 1        |

N.S. — Not Shown

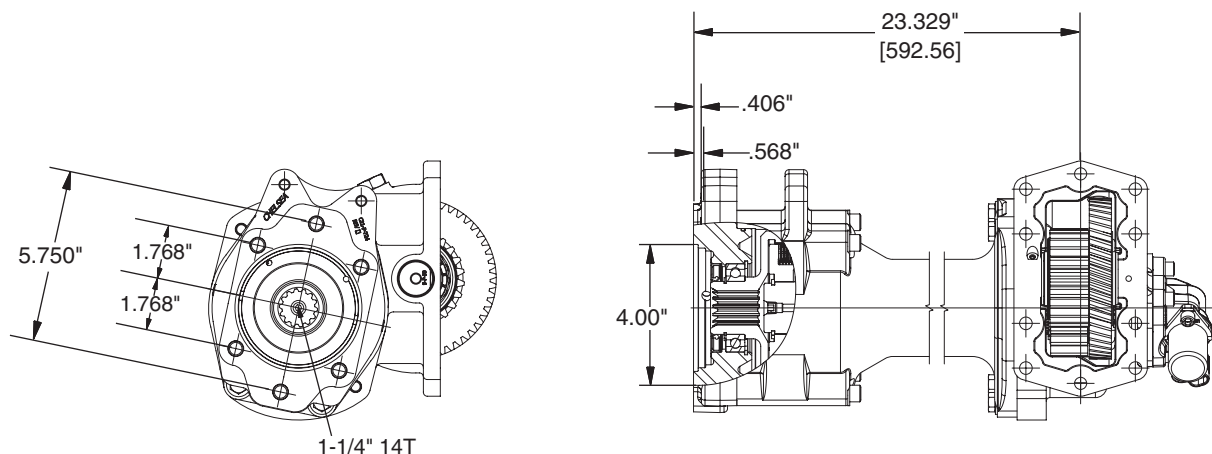


**329609-5X ("AZ") S.A.E. "B" 2 or 4-Bolt 1-1/4" - 14 Tooth**

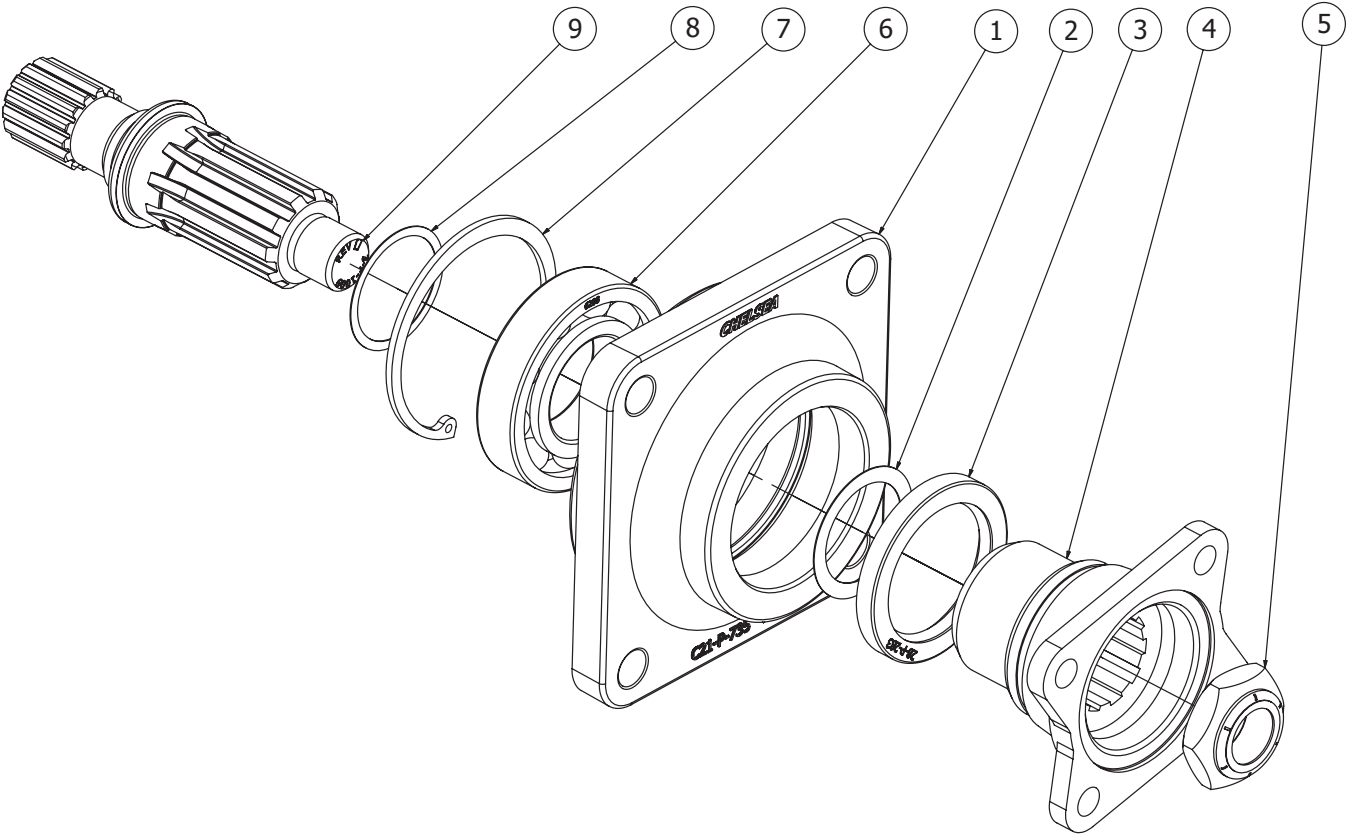


| Item | Part Number | Description                                            | Quantity |
|------|-------------|--------------------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump "AZ" S.A.E. "B" 2 or 4-Bolt .....          | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....             | 1        |
| 3    | 379919      | Lockring .....                                         | 1        |
| 4    | 2-P-877     | Gear Output 14 Tooth .....                             | 1        |
| 5    | 379668      | Lockring .....                                         | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....                 | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                               | 2        |
| N.S. | 28-P-259X   | O-Ring 3.984" x .139" (Wet Spline Pump Mounting) ..... | 1        |

N.S. — Not Shown

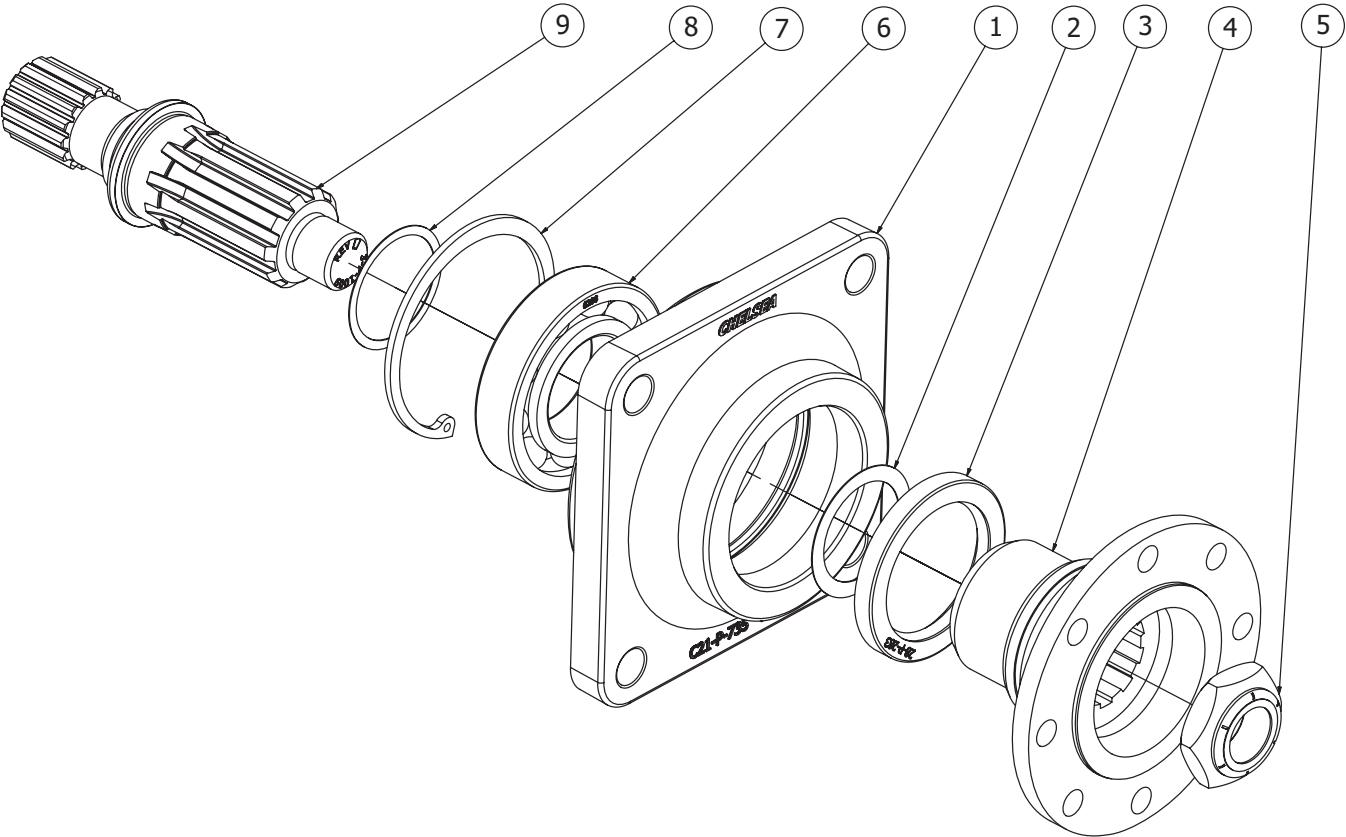


329608-1X “XV” S.A.E. 1410 Companion Flange



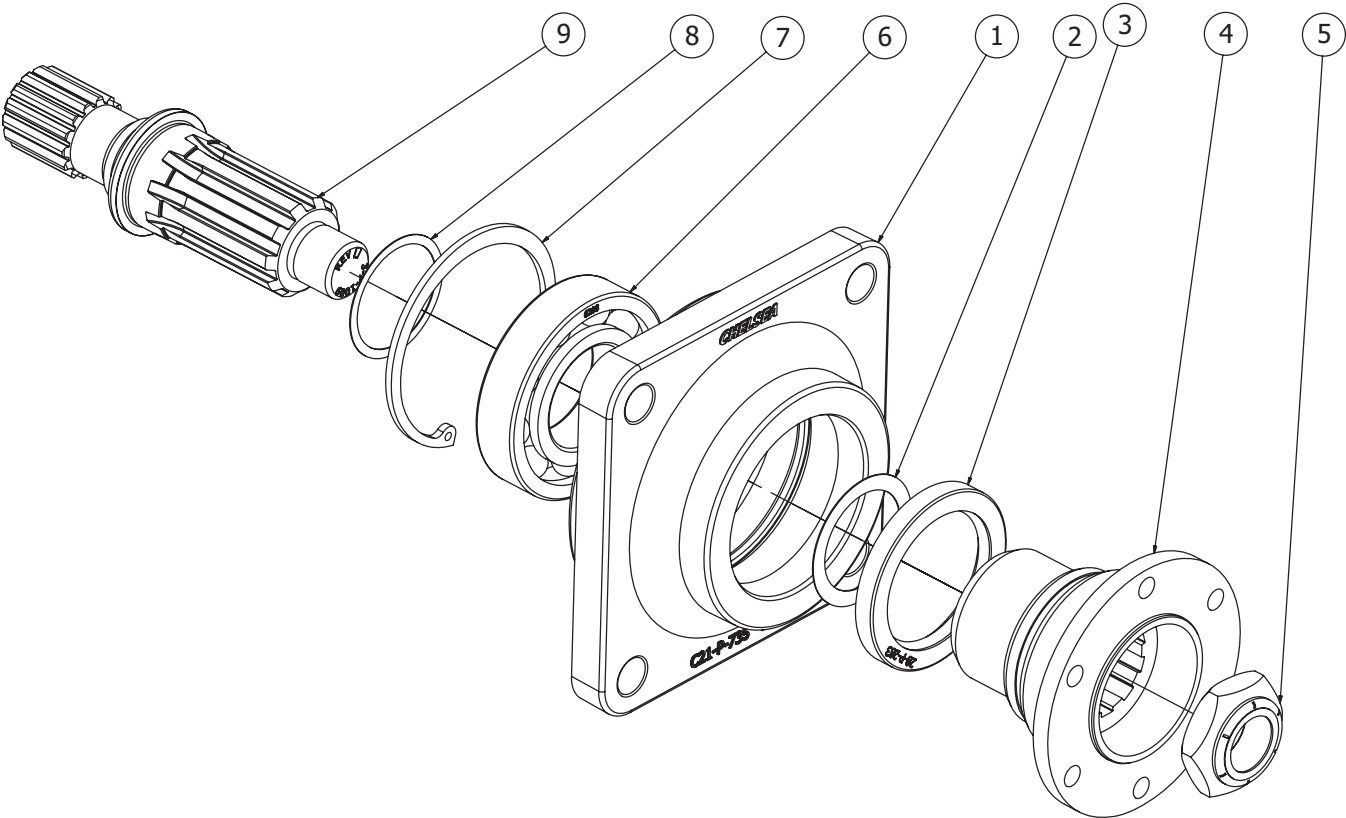
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 3-1-3431    | Companion Flange 1410 .....                | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 890 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |

329608-2X “AB” DIN 120 Companion Flange

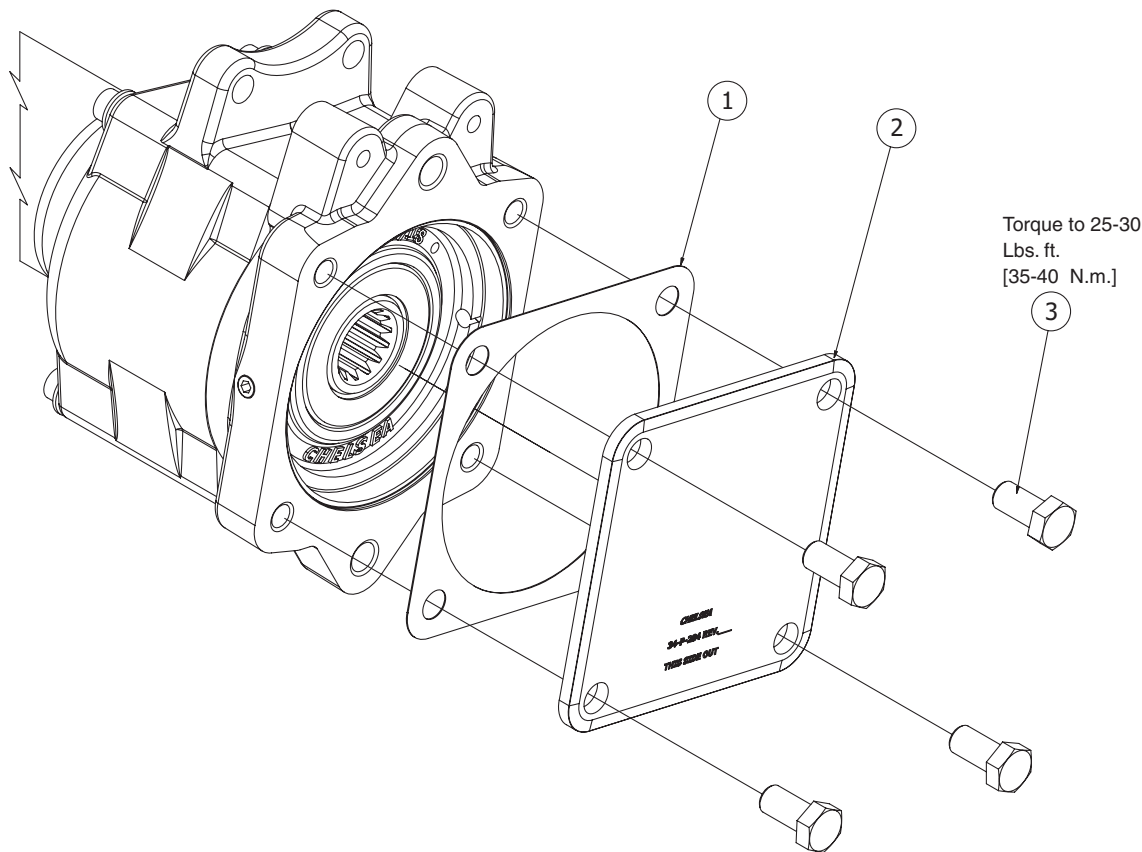


| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 379558      | Companion Flange DIN 120 .....             | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 890 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |

**329608-3X “AC” DIN 100 Companion Flange**



| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 379742      | Companion Flange DIN 100 .....             | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 890 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |



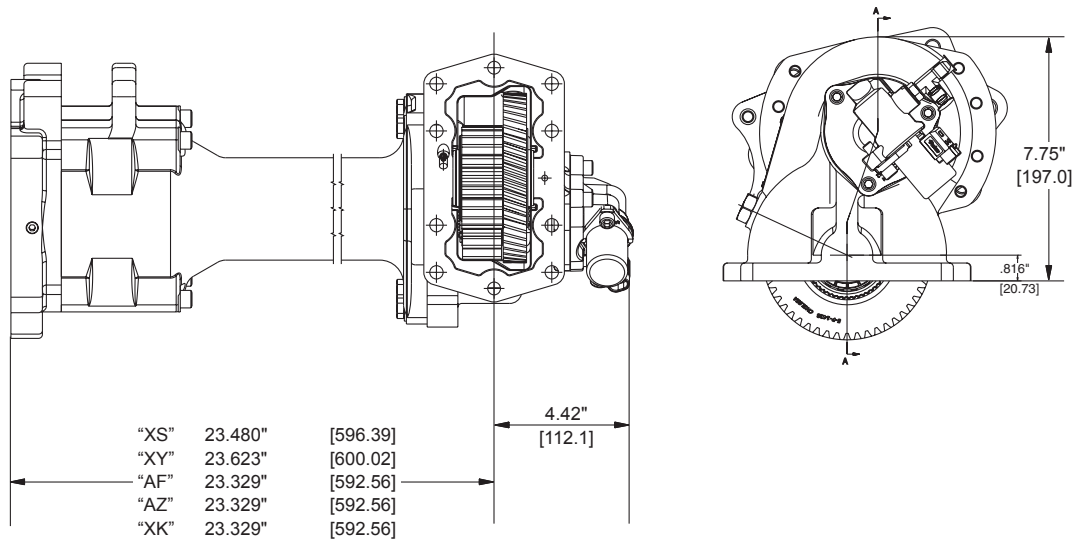
**KITS:** 329654X “XS” Output  
329658X “XK”, “AF”, “AZ” Output  
329659X “XY” Output

| Item | Part Number                        | Description                         | Quantity |
|------|------------------------------------|-------------------------------------|----------|
| 1    | 22-P-25-2<br>35-P-104<br>379943    | Gasket “XS” Output .....            | 1 or     |
|      |                                    | Gasket “XK”, “AF”, “AZ” Output..... | 1 or     |
|      |                                    | Gasket “XY” Output .....            | 1        |
| 2    | 34-P-284<br>34-P-285<br>379940     | Cover “XS” .....                    | 1 or     |
|      |                                    | Cover “XK”, “AF”, “AZ” .....        | 1 or     |
|      |                                    | Cover “XY” .....                    | 1        |
| 3    | 378433-10<br>378433-10<br>379579-4 | Capscrew “XS” .....                 | 1 or     |
|      |                                    | Capscrew “XK”, “AF”, “AZ” .....     | 1 or     |
|      |                                    | Capscrew “XY” .....                 | 1        |

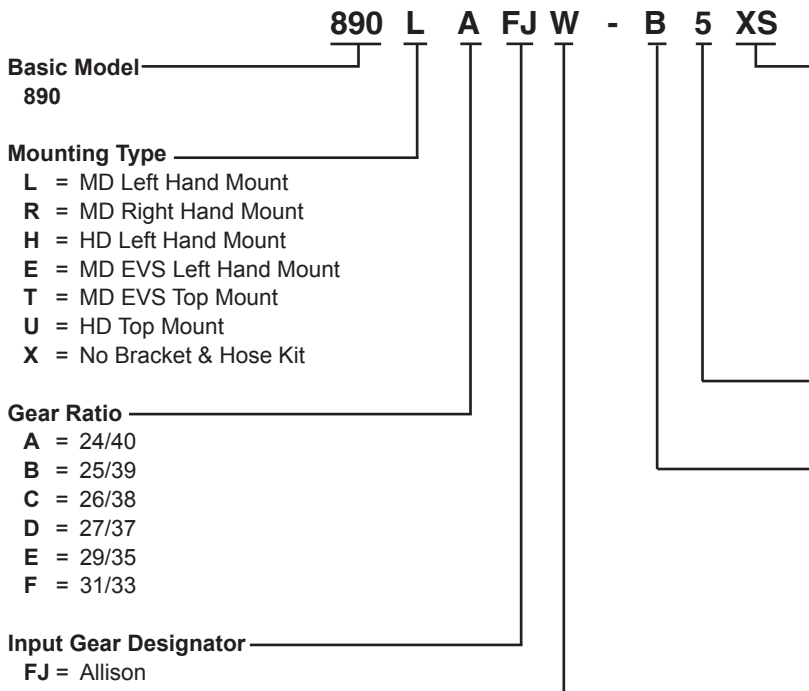
## 890 Gear Chart

| GEAR DESIGNATOR | INPUT GEAR (8) | NO. TEETH A | RATIO GEAR (9) | NO. TEETH B | OUTPUT GEAR (6) | NO. TEETH C |
|-----------------|----------------|-------------|----------------|-------------|-----------------|-------------|
| 890*AFJ         | 5-P-1428       | 50          | 5-P-1429       | 24          | 2-P-862         | 40          |
| 890*BFJ         | 5-P-1428       | 50          | 5-P-1438       | 25          | 2-P-872         | 39          |
| 890*CFJ         | 5-P-1428       | 50          | 5-P-1439       | 26          | 2-P-873         | 38          |
| 890*DFJ         | 5-P-1428       | 50          | 5-P-1440       | 27          | 2-P-874         | 37          |
| 890*EFJ         | 5-P-1428       | 50          | 5-P-1432       | 29          | 2-P-865         | 35          |
| 890*FFJ         | 5-P-1428       | 50          | 5-P-1433       | 31          | 2-P-866         | 33          |

## Housing Dimensions



## Model Number Designation



## Output Designation

- XS = Class "C" 2 & 4-Bolt Pump Mount
- XK = Class "B" 2 & 4-Bolt Pump Mount
- AF = Class "B-B" 2 & 4-Bolt Pump Mount
- XY = DIN 5462 Pump Mount
- AZ = Class "B" 2 & 4-Bolt Pump Flange, Class "C" Shaft
- XV = 1-1/2" 10T Spline Shaft w/1410 Flange
- AB = 1-1/2" 10T Spline Shaft w/DIN 120 Flange
- AC = 1-1/2" 10T Spline Shaft w/DIN 100 Flange

## Assembly Arrangement

\*5\* Gear Forward Left Side Mount

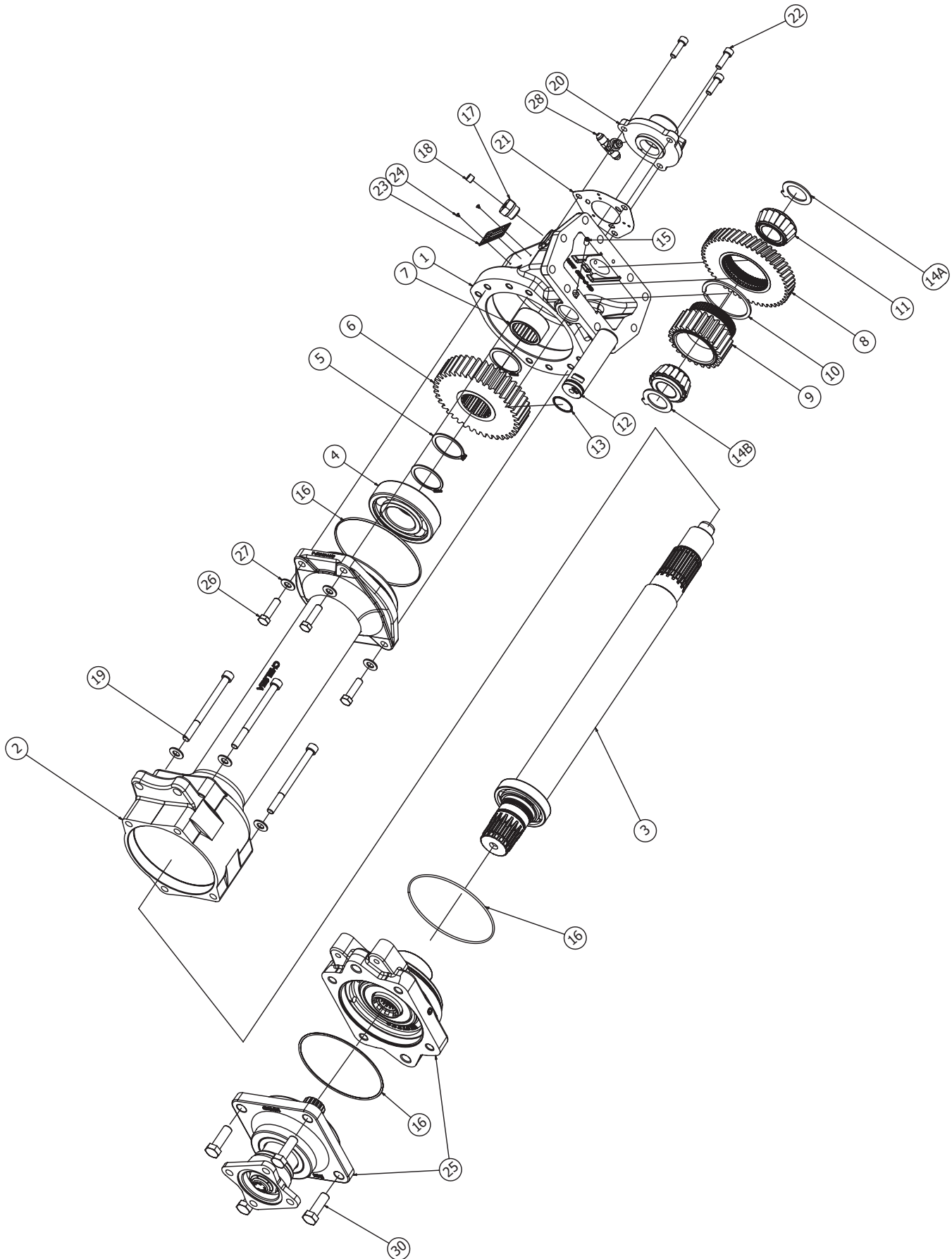
## Shifter Type

- B = 12V Hydraulic Valve
- D = 24V Hydraulic Valve
- K = 12V Hydraulic Valve with E.O.C.
- L = 24V Hydraulic Valve with E.O.C.
- G = 12V Remote Valve without E.O.C.
- H = 24V Remote Valve without E.O.C.

## Lubrication

W = Wet Spline

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## Bill of Materials

## Power Take-Offs

## 897 Series

| Item | Part Number     | Description                                                        | Quantity |
|------|-----------------|--------------------------------------------------------------------|----------|
| 1    | 1-P-629         | Housing 897 .....                                                  | 1        |
| 2    | 54-P-22         | Retainer Bearing 897 .....                                         | 1        |
| 3    | 329655X         | Ass'y Drive Shaft .....                                            | 1        |
| 4    | 550026          | Bearing Ball 1.771" x 3.930" x .984" .....                         | 1        |
| 5    | 379668          | Lockring .....                                                     | 3        |
| 6    | See Chart Pg 34 | Gear Output .....                                                  | 1        |
| 7    | 560972          | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" .....         | 1        |
| 8    | See Chart Pg 34 | Gear Input .....                                                   | 1        |
| 9    | See Chart Pg 34 | Gear Ratio .....                                                   | 1        |
| 10   | 380064          | Lockring .....                                                     | 1        |
| 11   | 561026          | Bearing Tapered Cone 1.181" x .984" .....                          | 2        |
| 12   | 9-P-99          | Shaft Idler 1.180" .....                                           | 1        |
| 13   | 28-P-42         | O-Ring 1.051" x .070" .....                                        | 1        |
| 14A  | 14-P-82-1       | Spacer 1.191" x 1.750" x .080" .....                               | 1        |
| 14B  | 14-P-82-1       | Spacer 1.191" x 1.750" x .080" .....                               | A.R.     |
|      | 14-P-82-2       | Spacer 1.191" x 1.750" x .085" .....                               | A.R.     |
|      | 14-P-82-3       | Spacer 1.191" x 1.750" x .090" .....                               | A.R.     |
|      | 14-P-82-4       | Spacer 1.191" x 1.750" x .094" .....                               | A.R.     |
| 15   | 378452-7        | Set Screw SH .250"-20 x .500" .....                                | 1        |
| 16   | 28-P-245        | O-Ring 5.017" x .103" ("XS", "XK", "AF", "XY", "AZ" Outputs) ..... | 2        |
| 16   | 28-P-245        | O-Ring 5.017" x .103" ("XV", "AB", "AC" Outputs) .....             | 3        |
| 17   | 379242          | Adapter Straight .125"-27 x .750"-16 .....                         | 1        |
| 18   | 379231          | Plug Pipe .125"-27 .....                                           | 1        |
| 19   | 379433-18       | Capscrew SH .375"-16 x 4.500" .....                                | 4        |
| 20   | 21-P-690        | Cap Seal 866 .....                                                 | 1        |
| 21   | 22-P-112        | Gasket .....                                                       | 1        |
| 22   | 378447-6        | Capscrew SH .312"-18 x 1.000" .....                                | 3        |
| 23   | 68-P-2          | Plate Name .....                                                   | 1        |
| 24   | 378422          | Screw Drive .....                                                  | 2        |
| 25   | See Pg 24-32    | Ass'y Output .....                                                 | 1        |
| 26   | 378431-13       | Capscrew HH .375"-16 x 1.375" .....                                | 4        |
| 27   | 380076-07       | Washer Flat Hardened .410" x .816" x .066" .....                   | 8        |
| 28   | 379556          | Tee .438"-20 .....                                                 | 1        |
| 29   | 379564-2        | Cap Shipping .....                                                 | 2        |
| 30   | 378433-14       | Capscrew HH .500"-13 x 1.500" ("XV", "AB", "AC" Outputs) .....     | 4        |
|      |                 | <b>Loose Parts</b>                                                 |          |
|      | 328948-36X      | Kit Gasket & Installation (All) .....                              | 1        |
|      | 7170-86X        | Kit Mounting (All) .....                                           | 1        |
|      | 329645-1X       | Kit Bracket & Hose ("L" Mount) .....                               | 1        |
|      | 329645-2X       | Kit Bracket & Hose ("R" Mount) .....                               | 1        |
|      | 329645-3X       | Kit Bracket & Hose ("H" Mount) .....                               | 1        |
|      | 329645-4X       | Kit Bracket & Hose ("E" Mount) .....                               | 1        |
|      | 329645-5X       | Kit Bracket & Hose ("T" Mount) .....                               | 1        |
|      | 329645-6X       | Kit Bracket & Hose ("U" Mount) .....                               | 1        |
|      | 329644-1X       | Kit Mounting & Installation ("XS" Output) .....                    | 1        |
|      | 329644-2X       | Kit Mounting & Installation ("XK", "AF", "AZ" Output) .....        | 1        |
|      | 329644-3X       | Kit Mounting & Installation ("XY" Output) .....                    | 1        |
|      | 329654X         | Kit Cover (Optional) ("XS" Output) .....                           | 1        |
|      | 329658X         | Kit Cover (Optional) ("XK", "AF", "AZ" Output) .....               | 1        |
|      | 329659X         | Kit Cover (Optional) ("XY" Output) .....                           | 1        |

A.R.—As Required

Continued On Next Page

| Item | Part Number | Description                                             | Quantity |
|------|-------------|---------------------------------------------------------|----------|
|      |             | <b>Service Parts</b>                                    |          |
|      | 329071-46X  | Kit Gasket & Seal ("XS", "XK", "AF", "AZ" Outputs)..... | 1        |
|      | 329071-47X  | Kit Gasket & Seal ("XY" Output) .....                   | 1        |
|      | 329071-48X  | Kit Bearing ("XS", "XK", "AF", "AZ" Outputs) .....      | 1        |
|      | 329071-49X  | Kit Bearing ("XY" Output).....                          | 1        |
|      | 329071-51X  | Kit Bearing ("XV", "AB", "AC" Outputs).....             | 1        |
|      | 329071-52X  | Kit Gasket & Seal ("XV", "AB", "AC" Outputs) .....      | 1        |
|      | 329160-63X  | Kit Conversion "XS" to "XV" ("XS" Output) .....         | 1        |
|      | 329160-64X  | Kit Conversion "XS" to "AB" ("XS" Output) .....         | 1        |
|      | 329160-65X  | Kit Conversion "XS" to "AC" ("XS" Output) .....         | 1        |

A.R.—As Required

**329071-46X Kit Gasket & Seal “XS”, “XK”, “AF”, “AZ” Output**

| Item | Part Number | Description                            | Quantity |
|------|-------------|----------------------------------------|----------|
| 1    | 22-P-112    | Gasket Valve Cap .....                 | 1        |
| 2    | 28-P-42     | O-Ring 1.051" x .070" .....            | 1        |
| 3    | 28-P-119    | Oil Seal 1.379" x .875" x .249" .....  | 1        |
| 4    | 28-P-178    | O-Ring 4.484" x .138" .....            | 1        |
| 5    | 28-P-245    | O-Ring 5.017" x .103" .....            | 2        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" ..... | 1        |
| 7    | 28-P-285    | O-Ring 1.597" x .103" .....            | 2        |

**329071-47X Kit Gasket & Seal “XY” Output**

| Item | Part Number | Description                            | Quantity |
|------|-------------|----------------------------------------|----------|
| 1    | 22-P-112    | Gasket Valve Cap .....                 | 1        |
| 2    | 28-P-42     | O-Ring 1.051" x .070" .....            | 1        |
| 3    | 28-P-119    | Oil Seal 1.379" x .875" x .249" .....  | 1        |
| 4    | 28-P-178    | O-Ring 4.484" x .138" .....            | 1        |
| 5    | 28-P-245    | O-Ring 5.017" x .103" .....            | 2        |
| 6    | 28-P-267    | Oil Seal 2.627" x 1.750" x .312" ..... | 1        |
| 7    | 28-P-285    | O-Ring 1.597" x .103" .....            | 2        |

**329071-48X Kit Bearing “XS”, “XK”, “AF”, “AZ” Output**

| Item | Part Number | Description                                                | Quantity |
|------|-------------|------------------------------------------------------------|----------|
| 1    | 379668      | Lockring .....                                             | 4        |
| 2    | 379919      | Lockring .....                                             | 1        |
| 3    | 380070      | Lockring .....                                             | 1        |
| 4    | 550026      | Bearing Ball 1.771" x 3.937" x .984" .....                 | 1        |
| 5    | 560972      | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" ..... | 1        |
| 6    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....                 | 1        |
| 7    | 561026      | Bearing Tapered Cone 1.181" x .984" .....                  | 2        |
| 8    | 561028      | Bearing Ball 1.969" x 3.150" x .630" .....                 | 1        |
| 9    | 14-P-82-1   | Spacer 1.191" x 1.750" (.079"-.081") .....                 | 2        |
| 10   | 14-P-82-2   | Spacer 1.191" x 1.750" (.084"-.086") .....                 | 1        |
| 11   | 14-P-82-3   | Spacer 1.191" x 1.750" (.089"-.091") .....                 | 1        |
| 12   | 14-P-82-4   | Spacer 1.191" x 1.750" (.093"-.095") .....                 | 1        |

**329071-49X Kit Bearing “XY” Output**

| Item | Part Number | Description                                                | Quantity |
|------|-------------|------------------------------------------------------------|----------|
| 1    | 378263      | Lockring .....                                             | 1        |
| 2    | 379555      | Lockring .....                                             | 1        |
| 3    | 379668      | Lockring .....                                             | 3        |
| 4    | 380070      | Lockring .....                                             | 1        |
| 5    | 550026      | Bearing Ball 1.771" x 3.937" x .984" .....                 | 1        |
| 6    | 550311      | Bearing Ball 1.771" x 3.346" x .748" .....                 | 1        |
| 7    | 560972      | Bearing Needle Roller Ass'y 1.500" x 1.875" x 1.000" ..... | 1        |
| 8    | 561026      | Bearing Tapered Cone 1.181" x .984" .....                  | 2        |
| 9    | 561028      | Bearing Ball 1.969" x 3.150" x .630" .....                 | 1        |
| 10   | 14-P-82-1   | Spacer 1.191" x 1.750" (.079"-.081") .....                 | 2        |
| 11   | 14-P-82-2   | Spacer 1.191" x 1.750" (.084"-.086") .....                 | 1        |
| 12   | 14-P-82-3   | Spacer 1.191" x 1.750" (.089"-.091") .....                 | 1        |
| 13   | 14-P-82-4   | Spacer 1.191" x 1.750" (.093"-.095") .....                 | 1        |

**329071-51X Kit Bearing “XV”, “AB”, “AC”**

| Item | Part Number | Description           | Quantity |
|------|-------------|-----------------------|----------|
| 1    | 379668      | Lockring .....        | 4        |
| 2    | 379919      | Retaining .....       | 1        |
| 3    | 380070      | Lockring .....        | 1        |
| 4    | 550026      | Bearing .....         | 1        |
| 5    | 560972      | Needle Bearing .....  | 1        |
| 6    | 561018      | Ball Bearing .....    | 1        |
| 7    | 561026      | Bearing Tapered ..... | 2        |
| 8    | 561028      | Bearing Ball .....    | 1        |
| 9    | 14-P-82-1   | Spacer .....          | 2        |
| 10   | 14-P-82-2   | Spacer .....          | 1        |
| 11   | 14-P-82-3   | Spacer .....          | 1        |
| 12   | 14-P-82-4   | Spacer .....          | 1        |
| 13   | 561020      | Bearing Ball .....    | 1        |
| 14   | 378836      | Lockring .....        | 1        |

**329071-52X Kit-Gasket & Seal “XV”, “AB”, “AC”**

| Item | Part Number | Description             | Quantity |
|------|-------------|-------------------------|----------|
| 1    | 22-P-112    | Valve Cap .....         | 1        |
| 2    | 28-P-42     | O-Ring .....            | 1        |
| 3    | 28-P-119    | Oil Seal .....          | 1        |
| 4    | 28-P-178    | O-Ring .....            | 1        |
| 5    | 28-P-245    | O-Ring .....            | 2        |
| 6    | 28-P-278    | Oil Seal .....          | 1        |
| 7    | 28-P-285    | O-Ring .....            | 2        |
| 8    | 378161      | Gasket .....            | 1        |
| 9    | 35-P-103    | Gasket Shaft Seal ..... | 1        |
| 10   | 28-P-283    | Oil Seal .....          | 1        |

**329160-63X Kit Conversion “XS” to “XV”**

| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 329608-1X   | Ass'y Output ..... | 1        |
| 2    | 28-P-245    | O-Ring .....       | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

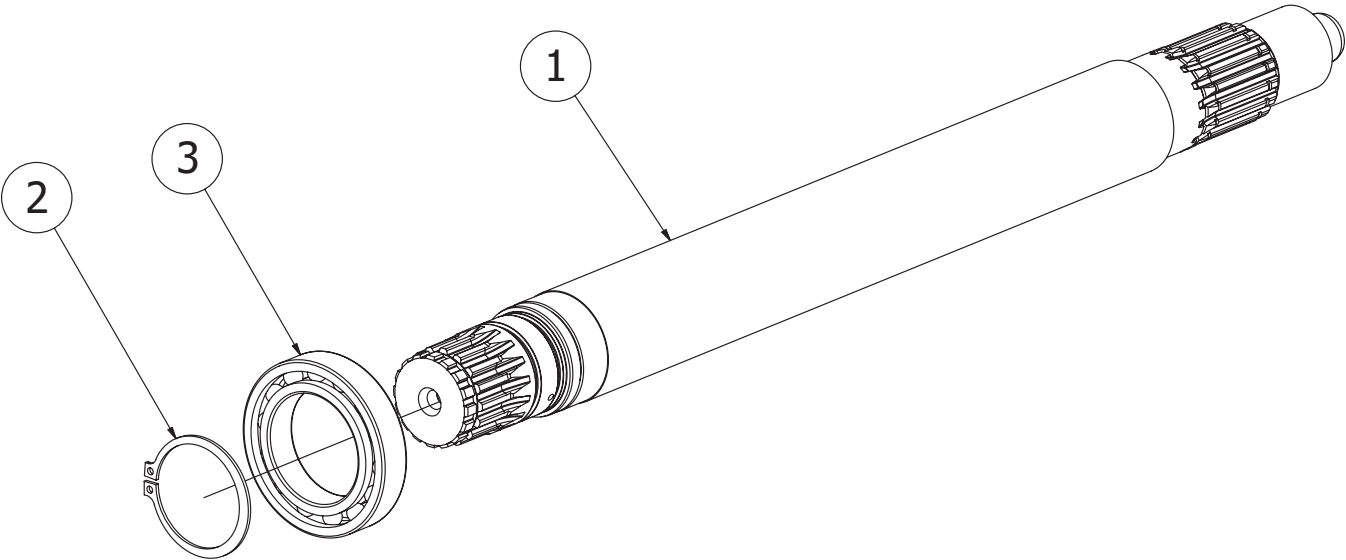
**329160-64X Kit Conversion “XS” to “AB”**

| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 28-P-245    | O-Ring .....       | 1        |
| 2    | 329608-2X   | Ass'y Output ..... | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

**329160-65X Kit Conversion “XS” to “AC”**

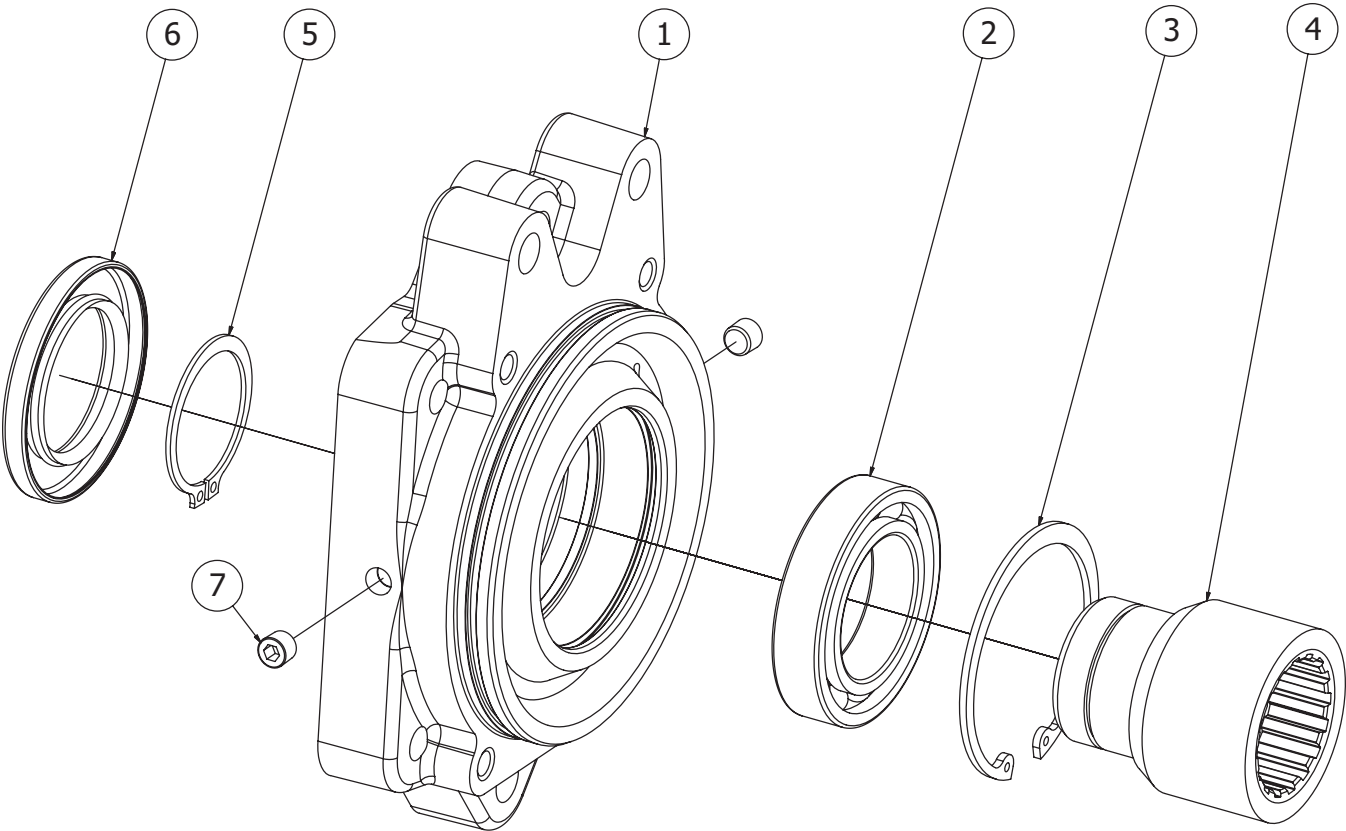
| Item | Part Number | Description        | Quantity |
|------|-------------|--------------------|----------|
| 1    | 329608-3X   | Ass'y Output ..... | 1        |
| 2    | 28-P-245    | O-Ring .....       | 1        |
| 3    | 378433-14   | Capscrew Hex ..... | 4        |

329655X Drive Shaft Assembly



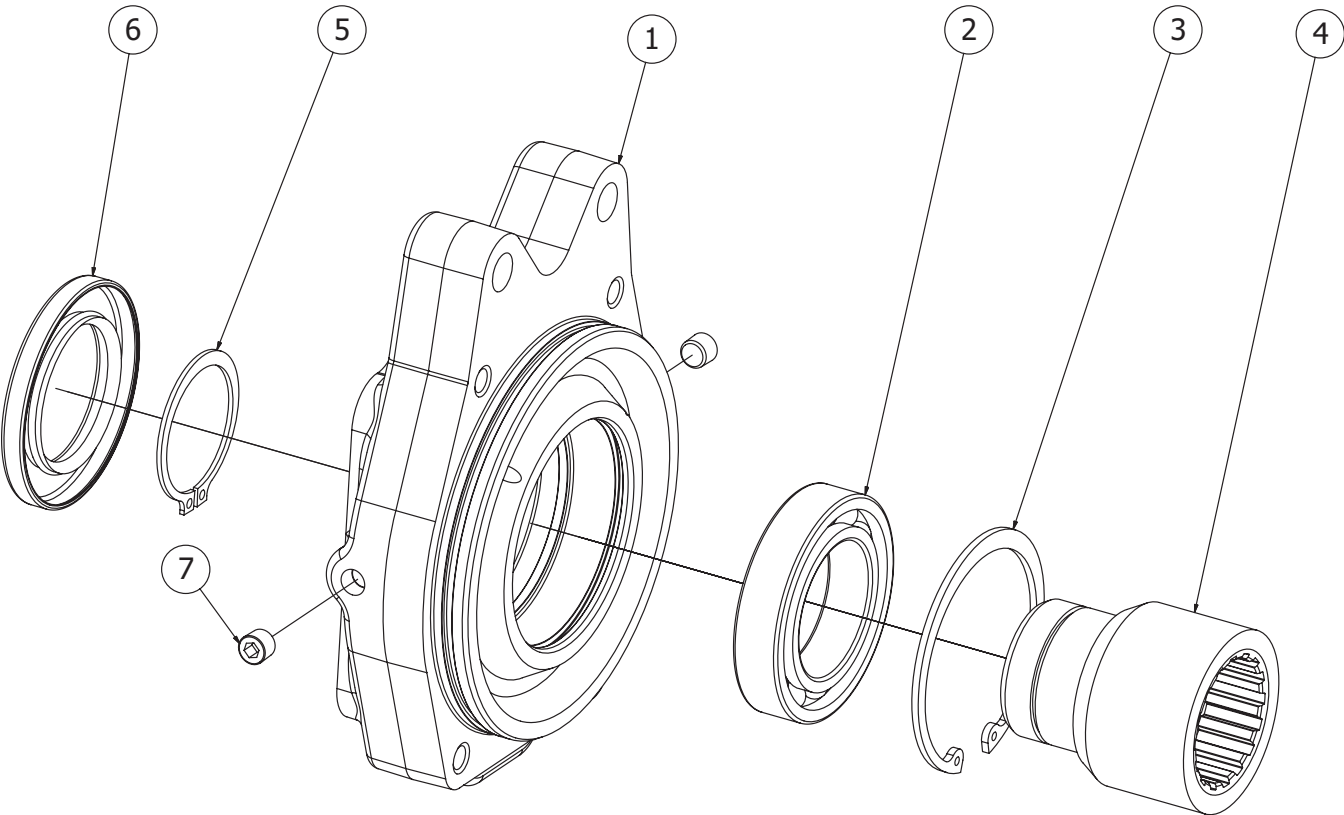
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 3-P-1007    | Shaft Output .....                         | 1        |
| 2    | 380070      | Lockring .....                             | 1        |
| 3    | 561028      | Bearing Ball 1.969" x 3.150" x .630" ..... | 1        |

329657-1X “XS” S.A.E. “C” 2 or 4-Bolt 1.25" - 14 Tooth



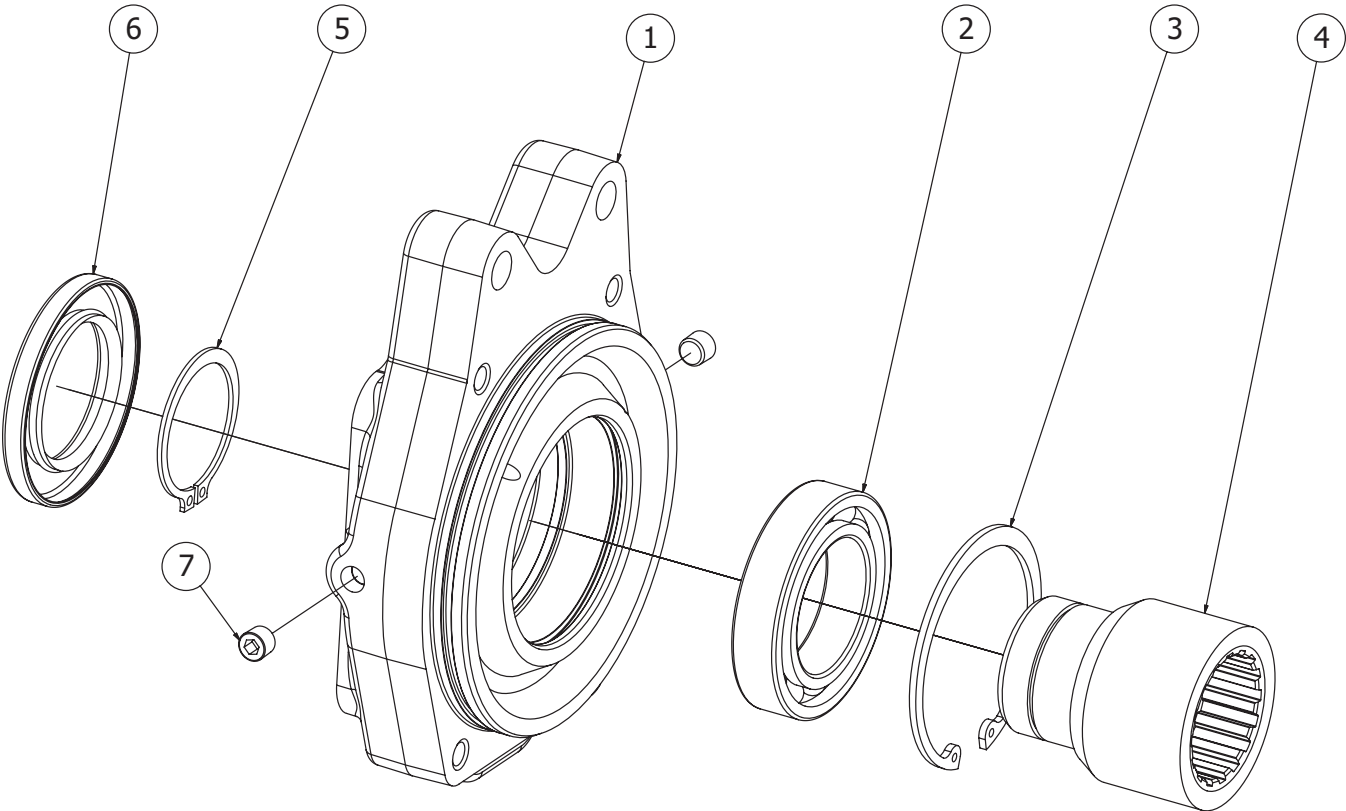
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-717    | Flange Pump “XS” .....                     | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" ..... | 1        |
| 3    | 379919      | Lockring .....                             | 1        |
| 4    | 380094      | Coupling “XS” Output 1-1/4 - 14T/16T ..... | 1        |
| 5    | 379668      | Lockring .....                             | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....     | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                   | 2        |

329657-2X “XK” S.A.E. “B” 2 or 4-Bolt 7/8" - 13 Tooth



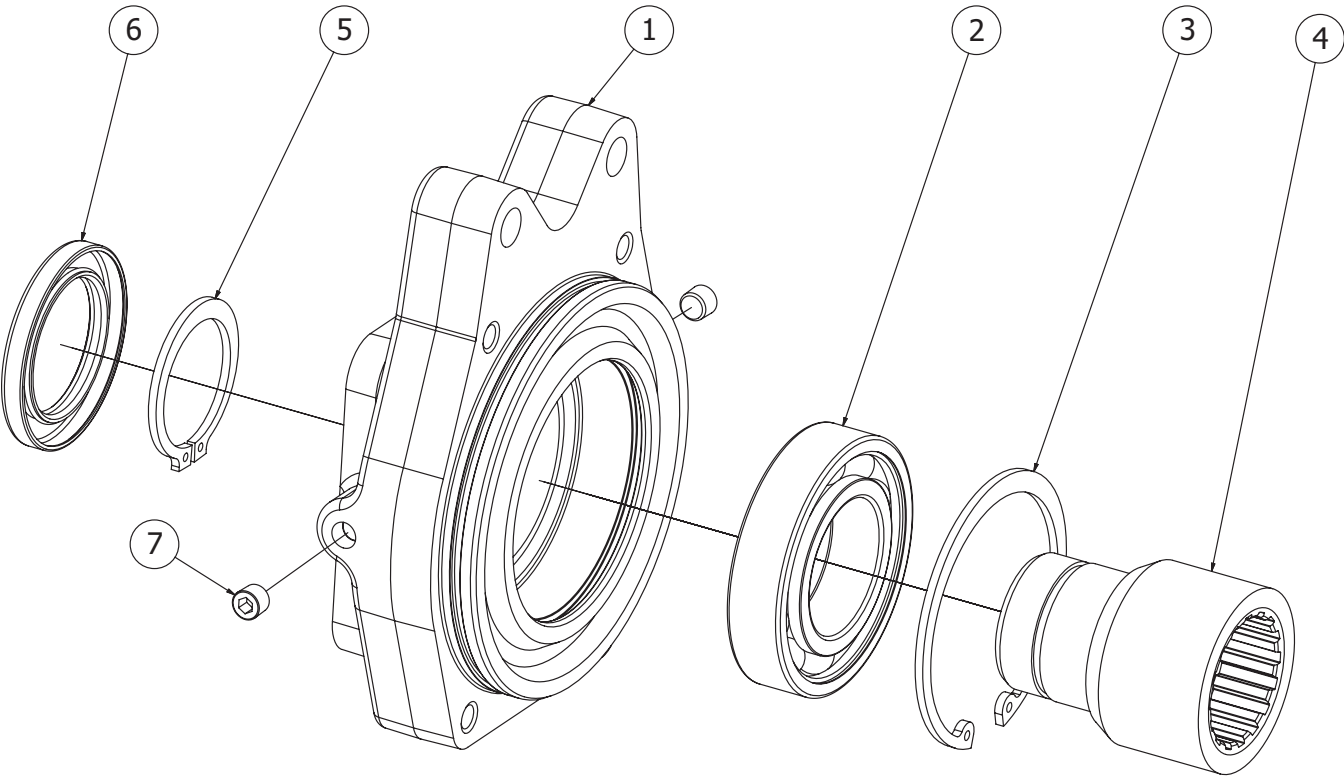
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump “XK” .....                     | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" ..... | 1        |
| 3    | 379919      | Lockring .....                             | 1        |
| 4    | 380092      | Coupling “XK” Output 7/8" - 13T/16T .....  | 1        |
| 5    | 379668      | Lockring .....                             | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....     | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                   | 2        |

**329657-3X “AF” S.A.E. “B-B” 2 or 4-Bolt 1.00" - 15 Tooth**



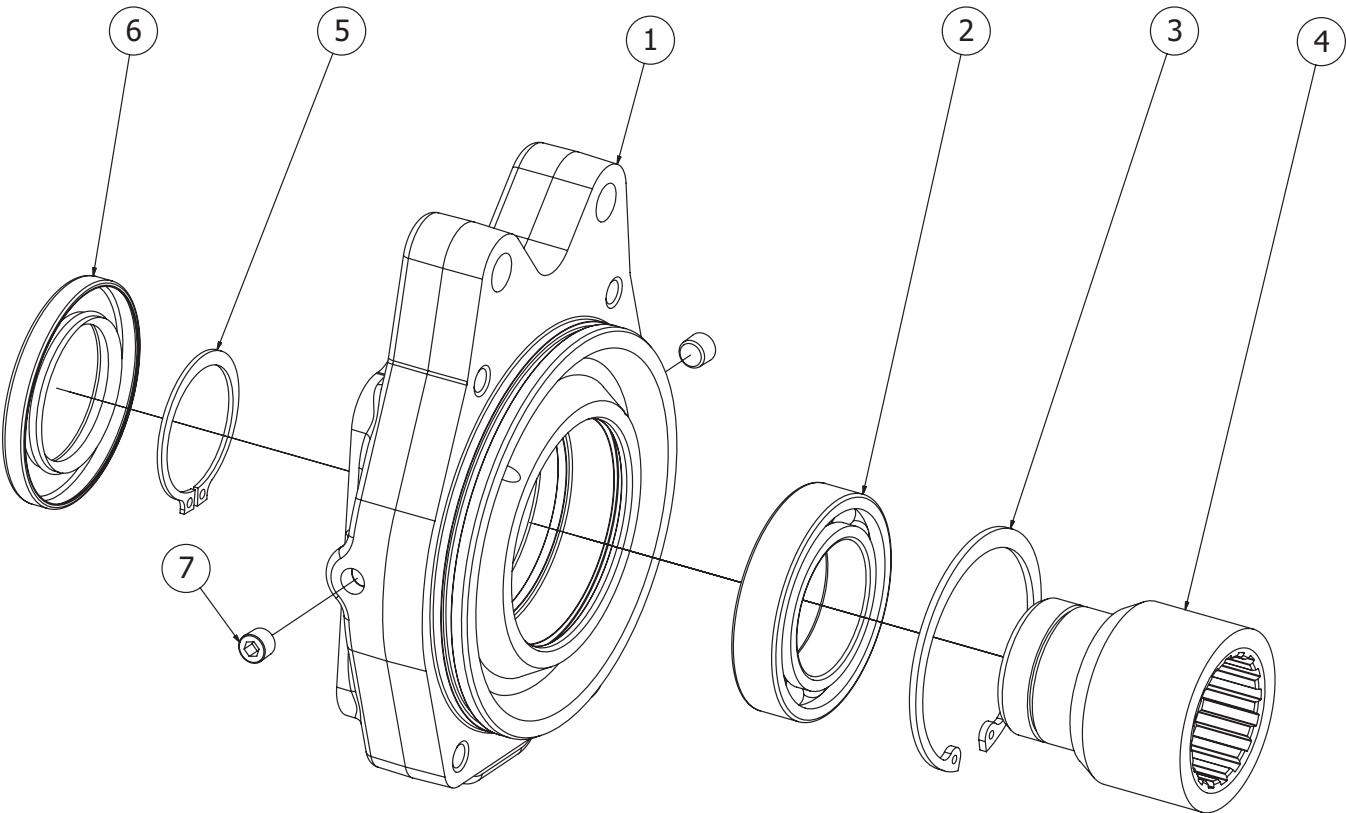
| Item | Part Number | Description                                 | Quantity |
|------|-------------|---------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump “AF” .....                      | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....  | 1        |
| 3    | 379919      | Lockring .....                              | 1        |
| 4    | 380093      | Coupling “AF” Output 1.000" - 15T/16T ..... | 1        |
| 5    | 379668      | Lockring .....                              | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....      | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                    | 2        |

329657-4X “XY” DIN 5462 4-Bolt 1.25" - 8 Tooth



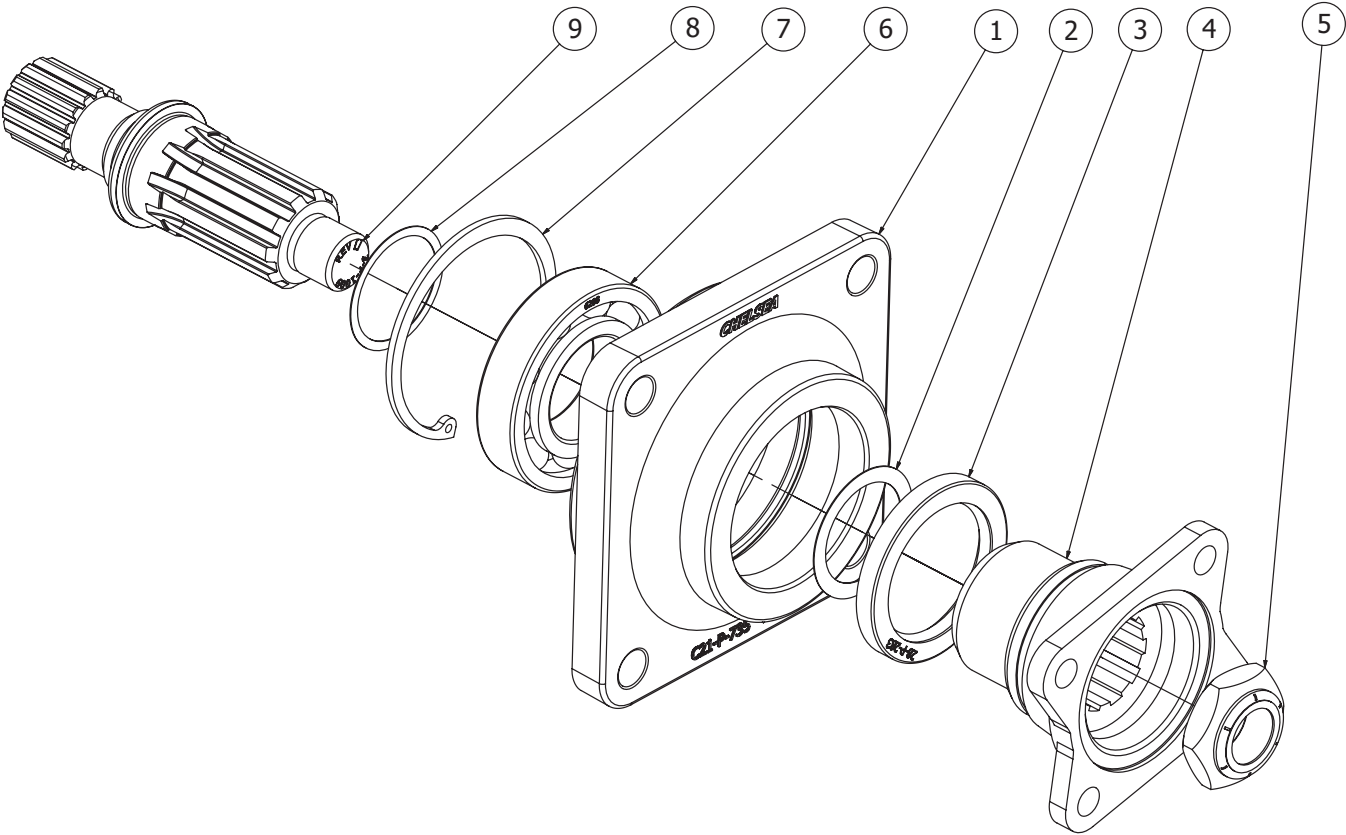
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-725    | Flange Pump “XY” .....                     | 1        |
| 2    | 550311      | Bearing Ball 1.770" x 3.346" x .748" ..... | 1        |
| 3    | 378263      | Lockring .....                             | 1        |
| 4    | 380095      | Coupling “XY” Output 8T Straight 16T ..... | 1        |
| 5    | 379555      | Lockring .....                             | 1        |
| 6    | 28-P-267    | Oil Seal 2.627" x 1.750" x .312" .....     | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                   | 2        |

**329657-5X “AZ” S.A.E. “B” 2 or 4-Bolt 1-1/4" - 14 Tooth**



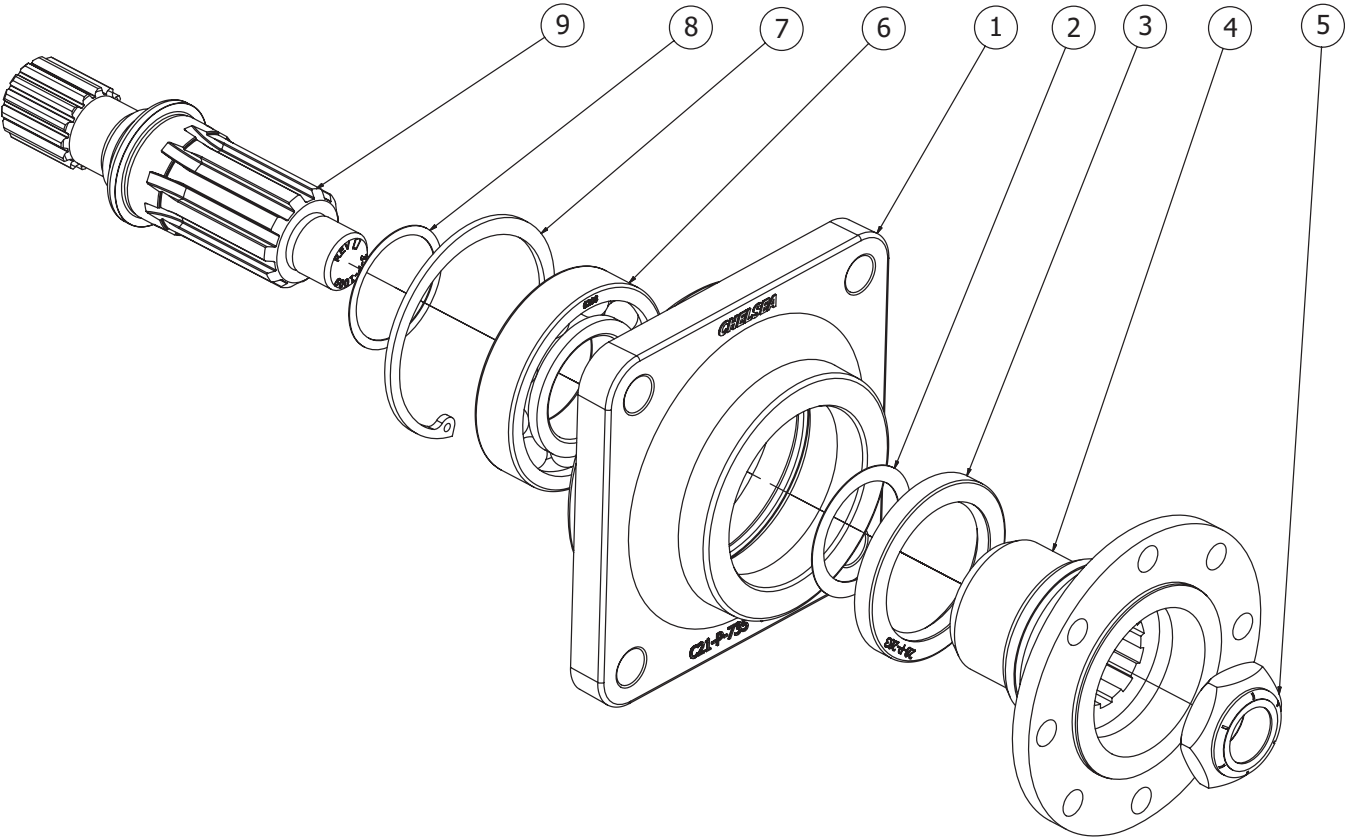
| Item | Part Number | Description                                 | Quantity |
|------|-------------|---------------------------------------------|----------|
| 1    | 21-P-723    | Flange Pump “AZ” .....                      | 1        |
| 2    | 561018      | Bearing Ball 1.772" x 2.953" x .630" .....  | 1        |
| 3    | 379919      | Lockring .....                              | 1        |
| 4    | 380094      | Coupling “AZ” Output 1-1/4" - 14T/16T ..... | 1        |
| 5    | 379668      | Lockring .....                              | 1        |
| 6    | 28-P-278    | Oil Seal 2.953" x 1.772" x .315" .....      | 1        |
| 7    | 379231      | Plug Pipe .125"-27 .....                    | 2        |

329608-1X “XV” S.A.E. 1410 Companion Flange



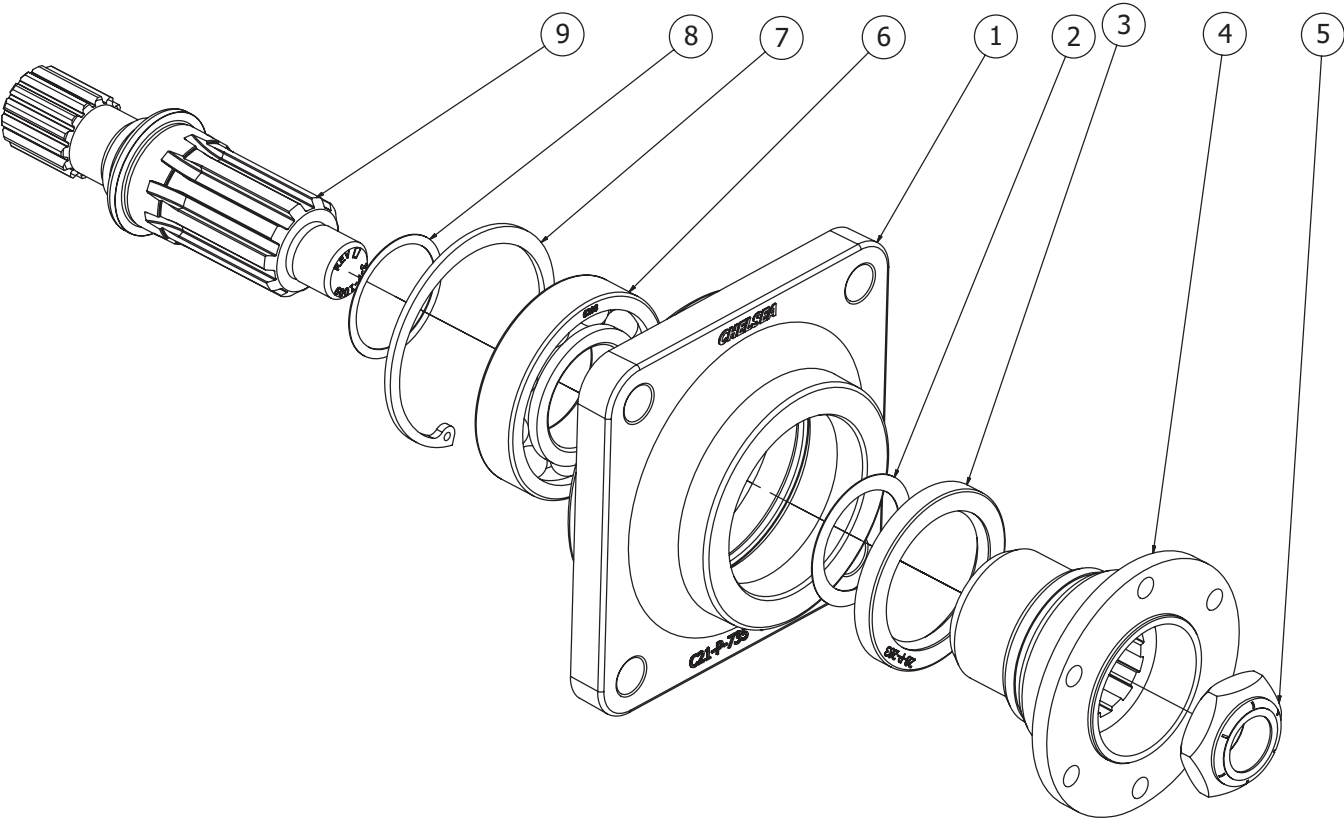
| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 3-1-3431    | Companion Flange 1410 .....                | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 897 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |

**329608-2X “AB” DIN 120 Companion Flange**

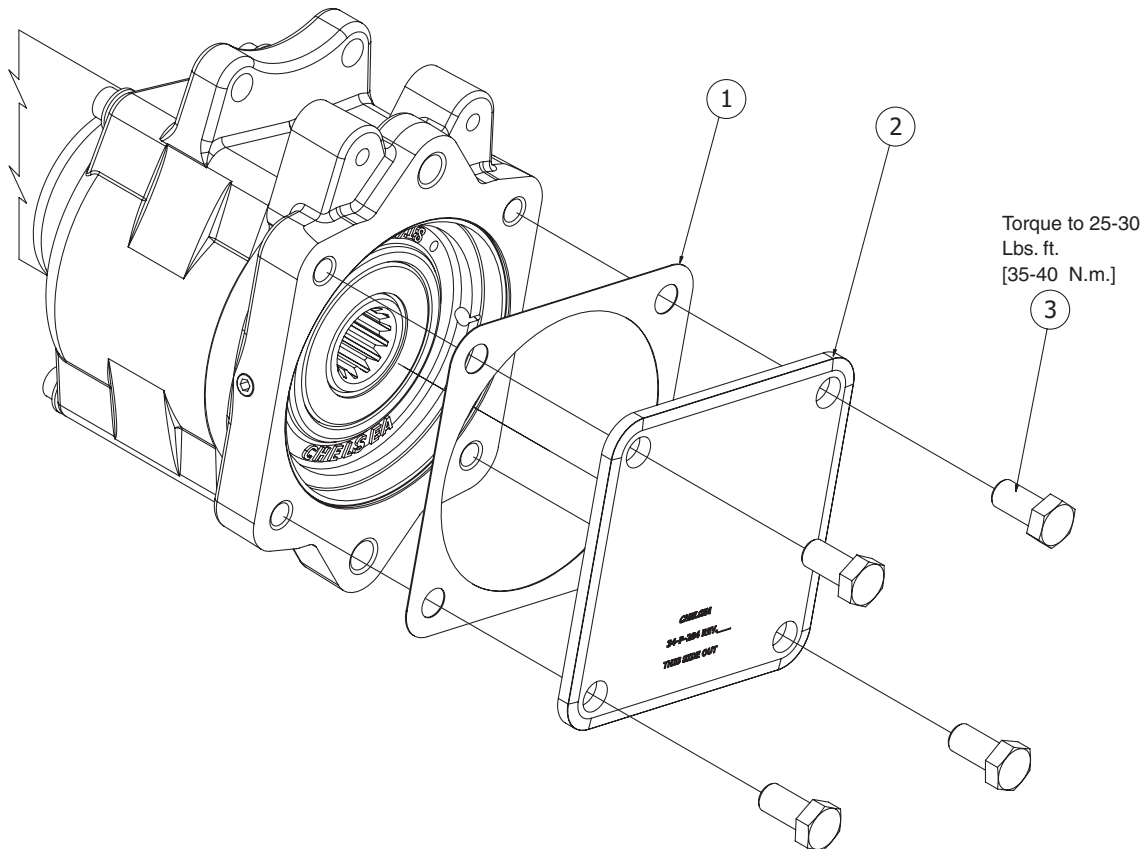


| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 379558      | Companion Flange DIN 120 .....             | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 897 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |

329608-3X “AC” DIN 100 Companion Flange



| Item | Part Number | Description                                | Quantity |
|------|-------------|--------------------------------------------|----------|
| 1    | 21-P-736    | Cap Bearing “XV”, “AB”, “AC” .....         | 1        |
| 2    | 378161      | Gasket 4600 .....                          | 1        |
| 3    | 28-P-283    | Oil Seal 2.754" x 2.000" x .313" .....     | 1        |
| 4    | 379742      | Companion Flange DIN 100 .....             | 1        |
| 5    | 378382      | Nut Stop .875"-14 .....                    | 1        |
| 6    | 561020      | Bearing Ball 1.574" x 3.149" x .708" ..... | 1        |
| 7    | 378836      | Lockring .....                             | 1        |
| 8    | 35-P-103    | Gasket Shaft Seal 897 .....                | 1        |
| 9    | 3-P-1009    | Shaft Output 10T Straight .....            | 1        |



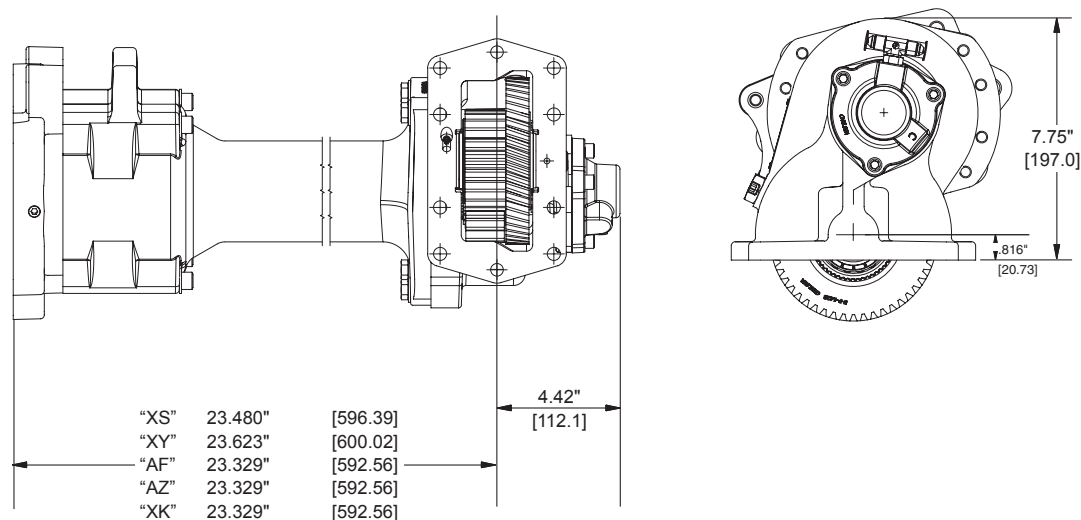
**KITS:** 329654X "XS" Output  
329658X "XK", "AF", "AZ" Output  
329659X "XY" Output

| Item | Part Number                        | Description                                                                                 | Quantity          |
|------|------------------------------------|---------------------------------------------------------------------------------------------|-------------------|
| 1    | 22-P-25-2<br>35-P-104<br>379943    | Gasket "XS" Output .....<br>Gasket "XK", "AF", "AZ" Output.....<br>Gasket "XY" Output ..... | 1 or<br>1 or<br>1 |
| 2    | 34-P-284<br>34-P-285<br>379940     | Cover "XS" .....<br>Cover "XK", "AF", "AZ" .....<br>Cover "XY" .....                        | 1 or<br>1 or<br>1 |
| 3    | 378433-10<br>378433-10<br>379579-4 | Capscrew "XS" .....<br>Capscrew "XK", "AF", "AZ" .....<br>Capscrew "XY" .....               | 1 or<br>1 or<br>1 |

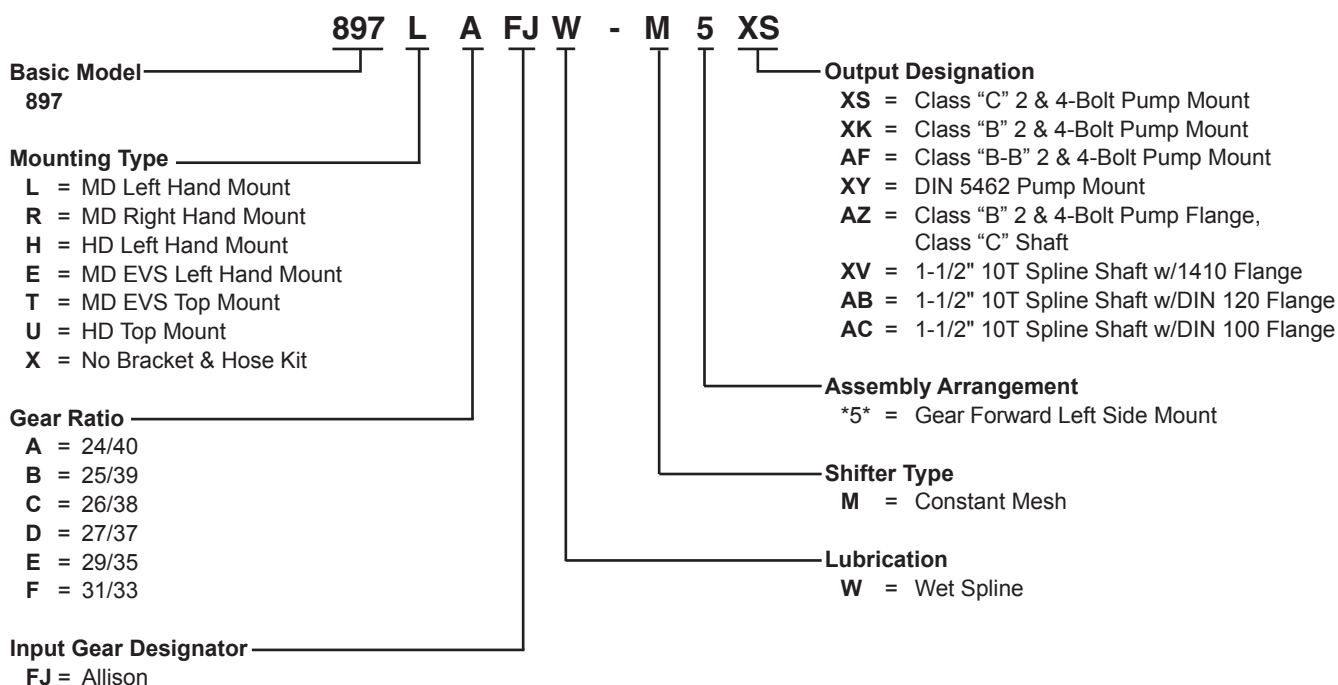
## 897 Gear Chart

| GEAR DESIGNATOR | INPUT GEAR (8) | NO. TEETH A | RATIO GEAR (9) | NO. TEETH B | OUTPUT GEAR (6) | NO. TEETH C |
|-----------------|----------------|-------------|----------------|-------------|-----------------|-------------|
| 890*AFJ         | 5-P-1428       | 50          | 5-P-1429       | 24          | 2-P-862         | 40          |
| 890*BFJ         | 5-P-1428       | 50          | 5-P-1438       | 25          | 2-P-872         | 39          |
| 890*CFJ         | 5-P-1428       | 50          | 5-P-1439       | 26          | 2-P-873         | 38          |
| 890*DFJ         | 5-P-1428       | 50          | 5-P-1440       | 27          | 2-P-874         | 37          |
| 890*EFJ         | 5-P-1428       | 50          | 5-P-1432       | 29          | 2-P-865         | 35          |
| 890*FFJ         | 5-P-1428       | 50          | 5-P-1433       | 31          | 2-P-866         | 33          |

## Housing Dimensions



## Model Number Designation



[illegible]

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**2. Payment:** Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late in making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

**3. Delivery:** Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

**4. Warranty:** Seller warrants that certain Products, namely PTOs, SEMs, and Wet Line Kits sold hereunder shall be free from defects in material or workmanship for a period of twenty four months from the date of delivery to Buyer. Seller warrants that certain Products namely Pumps, and Hydraulic Accessories shall be free from defects in material or workmanship for a period of eighteen months from the date of delivery to the Buyer. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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**6. Changes, Reschedules and Cancellations:** Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

**7. Special Tooling:** A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

**8. Buyer's Property:** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property, Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

**9. Taxes:** Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

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10/09-P



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