



# RL-G70

## PARTS LIST # 102693L

USE THIS PARTS LIST FOR:

Hoist Serial Number      6745    to    \_\_\_\_\_

For older hoists use the following:

Parts List No. 102692H for Serial Number 2640 to 6744

IF YOUR HOIST DOES NOT FALL WITHIN THE SERIAL  
NUMBERS BREAKS, CONTACT HARSH TO GET THE  
APPROPRIATE MANUAL

For pump replacement part numbers, consult the parts lists  
supplied with the pump

IT IS RECOMMENDED THAT THIS HOIST  
BE INSTALLED BY A QUALIFIED TRUCK  
EQUIPMENT INSTALLER

Harsh International, Inc.  
600 Oak Avenue  
Eaton, Colorado 80615

PHONE: (877) 427-7448 TOLL FREE

FAX: (970) 454-1761

(970) 454-1755 LOCAL

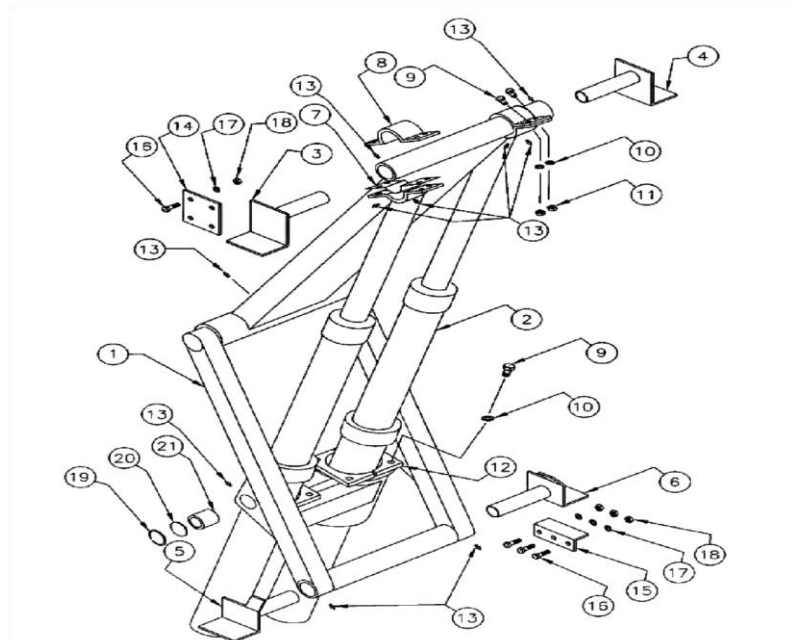
EMAIL: [customersupport@harshenviro.com](mailto:customersupport@harshenviro.com) PRICE: \$2.50

UPDATED MARCH 2022

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## G70 HOIST SCISSOR ASSEMBLY

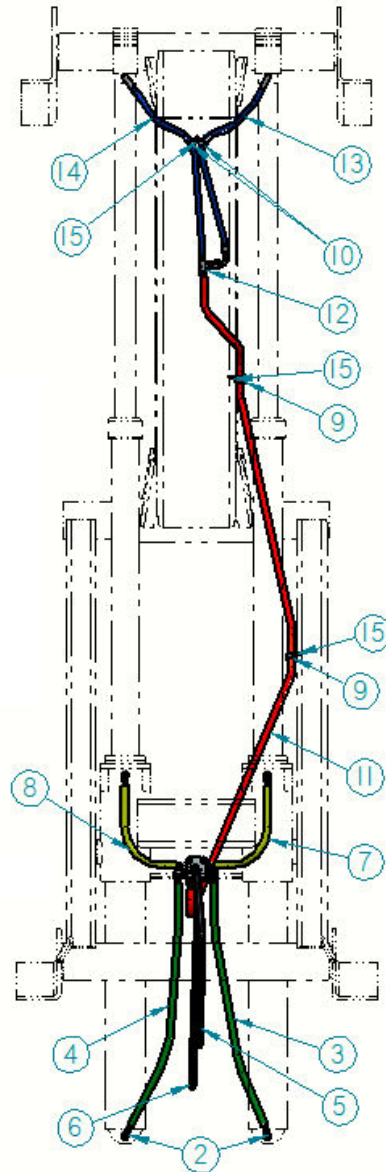


NOTES: \*2 – A1214 INCLUDES CYLINDER ASSY CYLINDER TOP MOUNT, BRASS BUSHING, SCREWS, LOCK WASHERS AND NUTS.

\*22 – A9778 INCLUDES ALL DECALS USED ON HOIST. SOME HOISTS MAY HAVE SELF TAPPING ZERKS IN VARIOUS LOCATIONS.

| ITEM | PART #   | QTY | DESCRIPTION                                    | ITEM | PART # | QTY | DESCRIPTION                                         |
|------|----------|-----|------------------------------------------------|------|--------|-----|-----------------------------------------------------|
| 1    | A16400   | 1   | SCISSOR ASSEMBLY, G70, RL-108                  | 12   | 100545 | 8   | SCREW, HX HD CAP, 3/8-16 UNC X 3 1/2 GR5            |
| *2   | A1214    | 2   | CYLINDER ASSEMBLY, COMPLETE, G-70              | 13   | 100037 | 11  | GREASE FITTING, DRIVE-IN, 1/4 LG                    |
| 3    | A11164-1 | 1   | UPPER MOUNT ASSEMBLY, G70                      | 14   | 11126  | 2   | STRINGER PLATE, 6 X 10 LG W/ 4 HOLES, E50-H80       |
| 4    | A11164-2 | 1   | UPPER MOUNT ASSEMBLY, G70                      | 15   | 11127  | 2   | FRAME ATTACHMENT ANGLE, 3 X 4 X 10 LG, E50H80       |
| 5    | A11172-1 | 1   | LOWER MOUNT ASSEMBLY, G70                      | 16   | 100230 | 14  | SCREW, HX HD CAP, 1/2-20 UNF X 2 GR5                |
| 6    | A11172-2 | 1   | LOWER MOUNT ASSEMBLY, G70                      | 17   | 100272 | 14  | WASHER, LOCK, 1/2                                   |
| 7    | 12907    | 2   | BUSHING, 2 1/2 X 6 25/32 W/ 6 HOLES, BRASS     | 18   | 100250 | 14  | NUT, HEX 1/2-20 UNF                                 |
| 8    | 18631    | 2   | CYLINDER TOP MOUNT, 2 1/2 X 6 25/32 LG, FORMED | 19   | 100147 | 2   | RETAINER RING, TW-7                                 |
| 9    | 100240   | 8   | SCREW, HX HD CAP, 3/8-16 X 1 1/4 GR5           | 20   | 15886  | 2   | GREASE RETAINER PLATE, 2 1/2 OD X 3/64 THK, F60-H80 |
| 10   | 100271   | 16  | WASHER, LOCK, 3/8                              | 21   | 103807 | 2   | COMPOSITE BUSHING, F60H80                           |
| 11   | 100254   | 16  | NUT, HEX 3/8-16 UNC GR5                        | *22  | A9778  | 1   | DECAL KIT, HOIST F60-G70H80                         |

## G70 HOSE & FITTINGS KIT

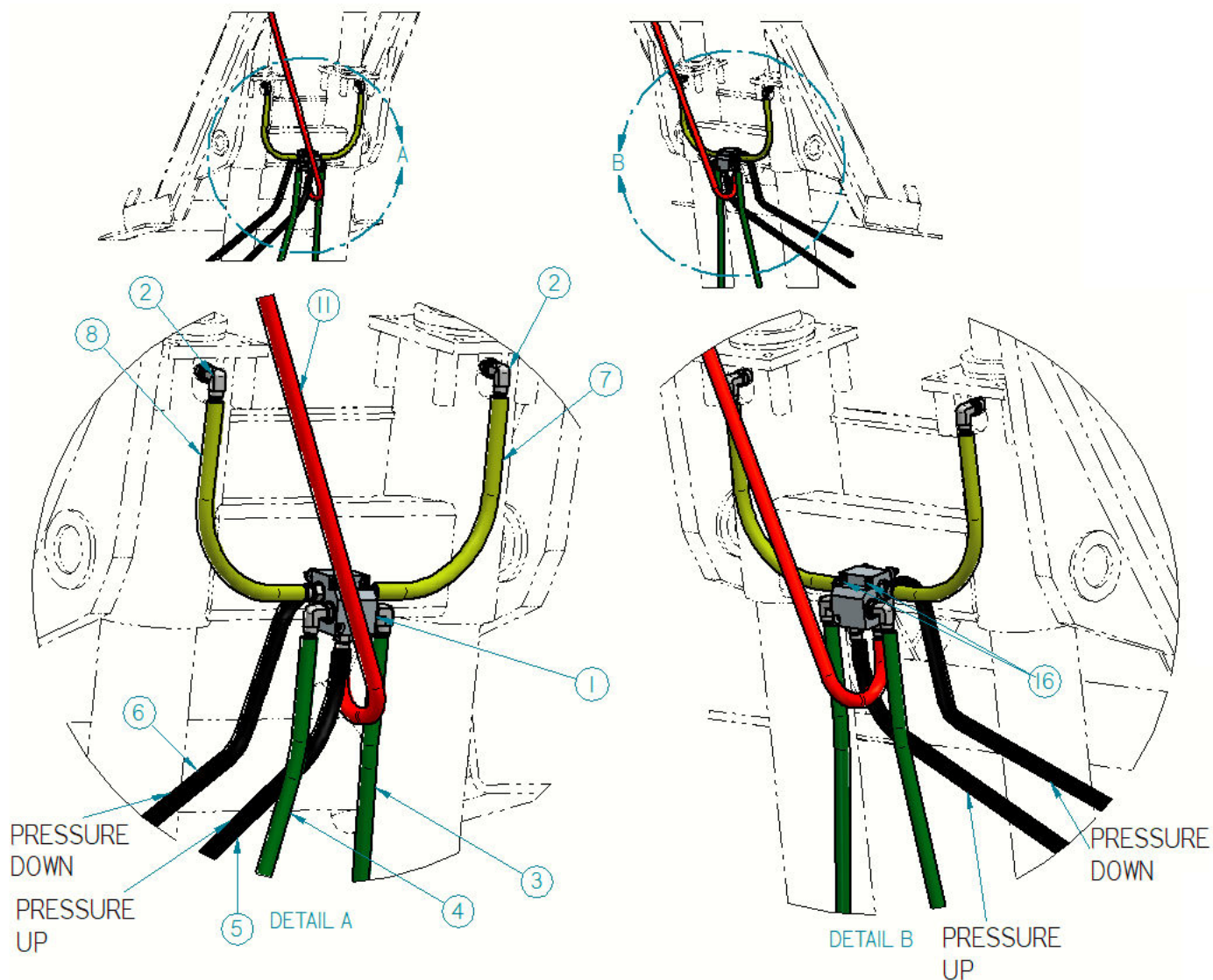


**BACK VIEW**

## G70 HOSE & FITTINGS KIT PARTS LIST

| ITEM # | QTY | PART # | DESCRIPTION                            | ITEM # | QTY | PART # | DESCRIPTION                           |
|--------|-----|--------|----------------------------------------|--------|-----|--------|---------------------------------------|
|        |     |        |                                        | 19     | 2   | 104177 | NUT, LOCKING, 1/4-20                  |
| 9      | 2   | 100935 | CLAMP, 1/2 IN. HOSE SUPPORT            | 18     | 2   | 100304 | WASHER, LOCK 1/4 CADMIUM PLATED       |
| 8      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 17     | 2   | 100443 | WASHER FLAT, 1/4"                     |
| 7      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 16     | 2   | 104175 | SCREW, SOCKET CAP, 1/4-20 x 1.75" LG  |
| 6      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 15     | 3   | 100544 | SCREW, HEX HD SELF TAPPING 5/16 X 3/4 |
| 5      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 14     | 1   | 104169 | HOSE ASSY, 1/4 X 27" LONG             |
| 4      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 13     | 1   | 104178 | HOSE ASSY, 1/4 X 27" LONG W/90° ELBOW |
| 3      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 12     | 1   | 104173 | TEE, UNION, #6 JIC (M-M-M)            |
| 2      | 4   | 101642 | 90 DEG ELBOW, #6 O-RING(M) x #6 JIC(M) | 11     | 1   | 104171 | HOSE ASSY, 3/8 X 73" LONG             |
| 1      | 1   | A23380 | BASE MANIFOLD ASSEMBLY - G70 - H80     | 10     | 2   | 100547 | CLAMP, 1/4 IN. HOSE SUPPORT           |

## G70 HOSE & FITTINGS KIT DETAIL A & B



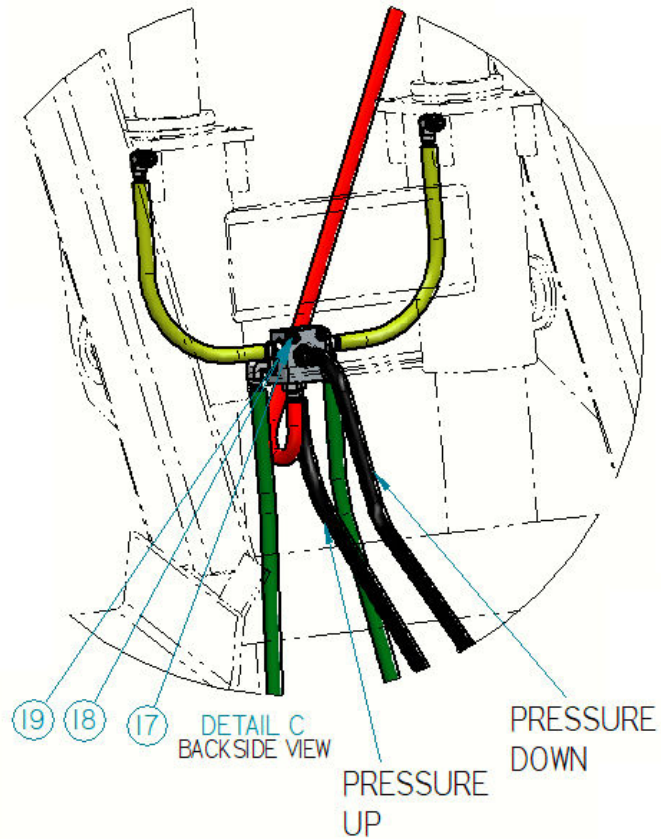
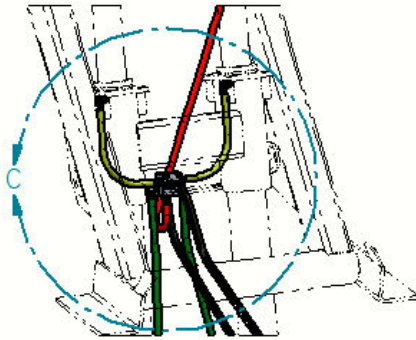
**DETAIL A**

**DETAIL B**

## G70 HOSE & FITTINGS KIT PARTS LIST

| ITEM # | QTY | PART # | DESCRIPTION                            | ITEM # | QTY | PART # | DESCRIPTION                           |
|--------|-----|--------|----------------------------------------|--------|-----|--------|---------------------------------------|
|        |     |        |                                        | 19     | 2   | 104177 | NUT, LOCKING, 1/4-20                  |
| 9      | 2   | 100935 | CLAMP, 1/2 IN. HOSE SUPPORT            | 18     | 2   | 100304 | WASHER, LOCK 1/4 CADMIUM PLATED       |
| 8      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 17     | 2   | 100443 | WASHER FLAT, 1/4"                     |
| 7      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 16     | 2   | 104175 | SCREW, SOCKET CAP, 1/4-20 x 1.75" LG  |
| 6      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 15     | 3   | 100544 | SCREW, HEX HD SELF TAPPING 5/16 X 3/4 |
| 5      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 14     | 1   | 104169 | HOSE ASSY, 1/4 X 27" LONG             |
| 4      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 13     | 1   | 104178 | HOSE ASSY, 1/4 X 27" LONG W/90° ELBOW |
| 3      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 12     | 1   | 104173 | TEE, UNION, #6 JIC (M-M-M)            |
| 2      | 4   | 101642 | 90 DEG ELBOW, #6 O-RING(M) x #6 JIC(M) | 11     | 1   | 104171 | HOSE ASSY, 3/8 X 73" LONG             |
| 1      | 1   | A23380 | BASE MANIFOLD ASSEMBLY - G70 - H80     | 10     | 2   | 100547 | CLAMP, 1/4 IN. HOSE SUPPORT           |

## G70 HOSE & FITTINGS KIT DETAIL C

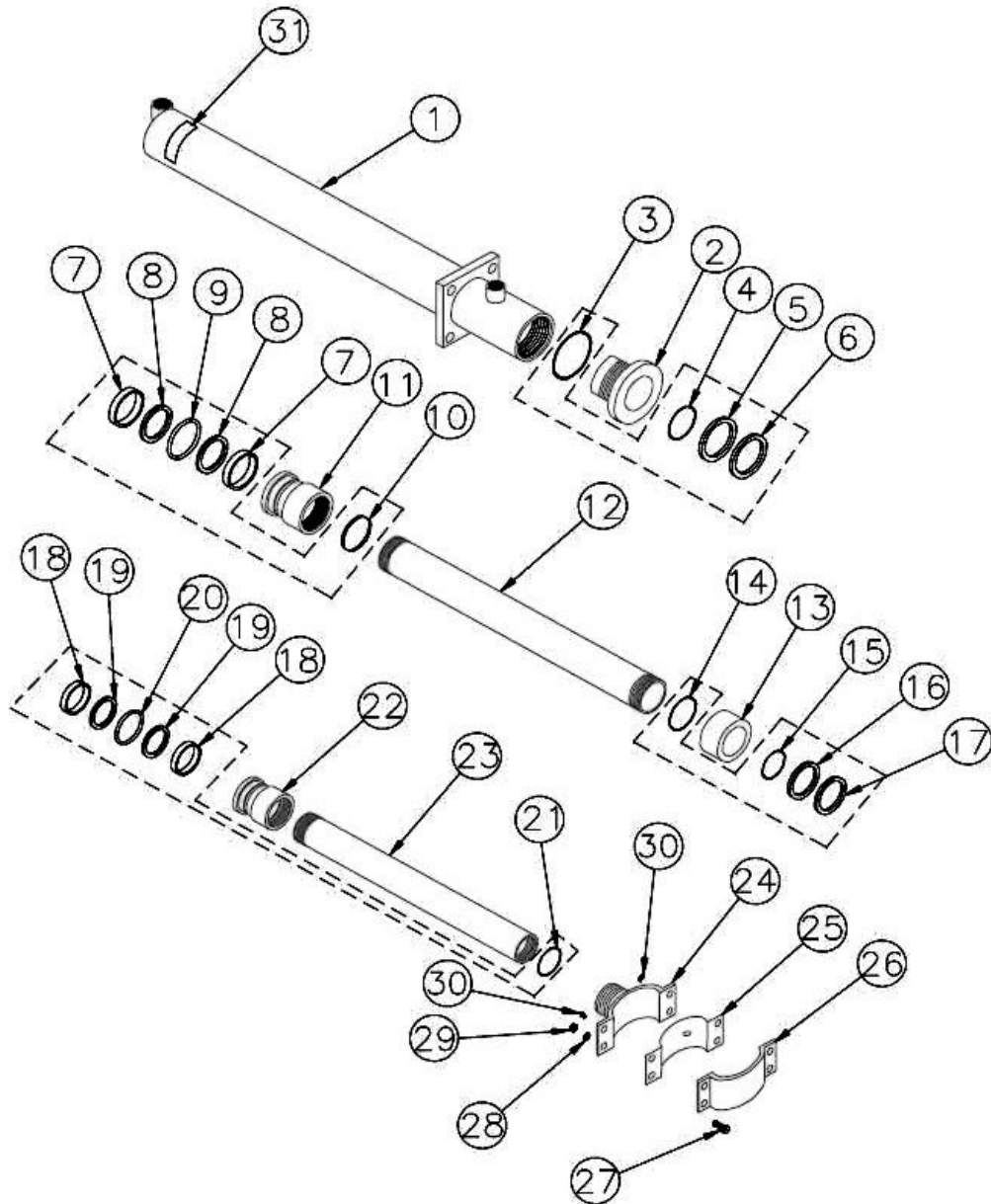


## G70 HOSE & FITTINGS KIT PARTS LIST

| ITEM # | QTY | PART # | DESCRIPTION                            | ITEM # | QTY | PART # | DESCRIPTION                           |
|--------|-----|--------|----------------------------------------|--------|-----|--------|---------------------------------------|
|        |     |        |                                        | 19     | 2   | 104177 | NUT, LOCKING, 1/4-20                  |
| 9      | 2   | 100935 | CLAMP, 1/2 IN. HOSE SUPPORT            | 18     | 2   | 100304 | WASHER, LOCK 1/4 CADMIUM PLATED       |
| 8      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 17     | 2   | 100443 | WASHER FLAT, 1/4"                     |
| 7      | 1   | 104168 | HOSE ASSY, 1/4 X 15" LONG              | 16     | 2   | 104175 | SCREW, SOCKET CAP, 1/4-20 x 1.75" LG  |
| 6      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 15     | 3   | 100544 | SCREW, HEX HD SELF TAPPING 5/16 X 3/4 |
| 5      | 1   | 104172 | HOSE ASSY, 3/8 X 120" LONG             | 14     | 1   | 104169 | HOSE ASSY, 1/4 X 27" LONG             |
| 4      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 13     | 1   | 104178 | HOSE ASSY, 1/4 X 27" LONG W/90° ELBOW |
| 3      | 1   | 104475 | HOSE ASSY, 3/8 X 28" LONG              | 12     | 1   | 104173 | TEE, UNION, #6 JIC (M-M-M)            |
| 2      | 4   | 101642 | 90 DEG ELBOW, #6 O-RING(M) x #6 JIC(M) | 11     | 1   | 104171 | HOSE ASSY, 3/8 X 73" LONG             |
| 1      | 1   | A23380 | BASE MANIFOLD ASSEMBLY - G70 - H80     | 10     | 2   | 100547 | CLAMP, 1/4 IN. HOSE SUPPORT           |



## G70 HOIST CYLINDER



**NOTES: - \*A1214 INCLUDES CYLINDER ASSY, CYLINDER TOP MOUNT, BRASS BUSHING, SCREWS, LOCKWASHERS, AND NUTS.**

**\*3-\*6 – SOLD AS SEAL KIT # A9114. NOT SOLD SEPERATELY.**

**\*7-\*10 – SOLD AS SEAL KIT # A9228. NOT SOLD SEPERATELY.**

**\*14-\*17 – SOLD AS SEAL KIT # A9229. NOT SOLD SEPERATELY.**

**\*18 -\*22 – SOLD AS SEAL KIT # A9230. NOT SOLD SEPERATELY.**

**\*25 – 29 – INCLUDED IN # A1214 CYLINDER ASSEMBLY. (COMPLETE)**

## G70 HOIST CYLINDER PARTS LIST

### PART # A11170

| ITEM | PART # | QTY | DESCRIPTION                                      | ITEM | PART # | QTY | DESCRIPTION                                     |
|------|--------|-----|--------------------------------------------------|------|--------|-----|-------------------------------------------------|
| *    | A1214  | 1   | CYLINDER ASSEMBLY, COMPLETE, G-70                | *17  | 100137 | 1   | WIPER RING, 2 ID-21                             |
| 1    | A11169 | 1   | CYLINDER BODY ASSEMBLY, G70                      | ~    | A9230  | 1   | PISTON SEAL KIT                                 |
| ~    | A9114  | 1   | SEAL KIT, GLAND NUT                              | *18  | 100566 | 2   | WEAR RING, 2 1/2, GLASS FILLED NYLON            |
| 2    | 19765  | 1   | GLAND NUT, 4 OD 3 5/8 THRD)                      | *19  | 100620 | 2   | BACK-UP RING, 2 1/8 ID-330, F60, G70            |
| *3   | 101344 | 1   | O-RING, 3 5/8 OD X 1/8 CS-237                    | *20  | 100155 | 1   | O-RING, 2 1/2 OD X 3/16 CS-330                  |
| *4   | 100158 | 1   | O-RING, 3 1/4 OD X 3/16 CS-336                   | *21  | 100519 | 1   | O-RING, 1 5/16 ID X 1/8 CS-219                  |
| *5   | 100604 | 1   | BACK-UP RING, 2 7/8 ID336                        | 22   | 11145  | 1   | PISTON, TOP STAGE, RL108                        |
| *6   | 100384 | 1   | WIPER RING, 2 7/8 ID-28                          |      |        |     |                                                 |
| ~    | A9228  | 1   | SEAL KIT, PISTON                                 |      |        |     |                                                 |
| *7   | 100567 | 2   | WEAR RING, 3 1/2, GLASS FILLED NYLON             | 23   | 11153  | 1   | CYLINDER TUBE, 2 OD X 36 7/16 LG, G70,H8        |
| *8   | 100621 | 2   | BACK-UP RING, 3 1/8 ID338                        | 24   | A11161 | 1   | CYLINDER TOP MOUNT ASSEMBLY, F60,G70            |
| *9   | 100159 | 1   | O-RING, 3 1/2 OD X 3/16 CS-236                   | *25  | 12907  | 1   | BUSHING, 2 1/2 X 6 25/32 W/ 6 HOLES, BRASS      |
| *10  | 100520 | 1   | O-RING, 2 5/8 OD X 1/16 CS-338                   | *26  | 18631  | 1   | CYLINDER TOP MOUNT, 2 1/2 X 6 25/32 LG, FORMED  |
| 11   | 11151  | 1   | PISTON, 3 13/32 OD X 2 15/16 LG, G70,108         | *27  | 100240 | 4   | SCREW, HX HD CAP, 3/8-16 X 1 1/4 GR5            |
| 12   | 11160  | 1   | CYLINDER TUBE, 2 7/8 OD X 36" LG                 | *28  | 100271 | 4   | WASHER, LOCK, 3/8                               |
| 13   | 11144  | 1   | GLAND NUT, 3 1/2 OD X 2 7/8 THREAD, F60,G70(108) | *29  | 100254 | 4   | NUT, HEX 3/8-16 UNC GR 5                        |
| ~    | A9229  | 1   | SEAL KIT, GLAND NUT                              | 30   | 100037 | 2   | GREASE FITTING, DRIVE-IN 1/4 LG                 |
| *14  | 100191 | 1   | O-RING, 3 OD X 1/8 CS-232                        | 31   | 101045 | 1   | DECAL, MAX CYLINDER PRESSURE 3300 PSI "CAUTION" |
| *15  | 100445 | 1   | O-RING, 2 ID X 3/16 CS-329                       |      |        |     |                                                 |
| *16  | 100619 | 1   | BACK-UP RING, 2 ID-329                           |      |        |     |                                                 |



**GLAND NUT (19824, 11152) SEAL KIT PART # A9114**

| QTY | ITEM # | PART # | DESCRIPTION                    |
|-----|--------|--------|--------------------------------|
| 1   | *1     | 100338 | O-RING, 2 3/8 ID X 1/8 CS-236  |
| 1   | 2      | 100192 | O-RING, 3 1/2 OD X 1/8 CS-236  |
| 1   | *3     | 101344 | O-RING, 3 5/8 OD X 1/8 CS-237  |
| 1   | 4      | 100158 | O-RING, 3 1/4 OD X 3/16 CS-336 |
| 1   | 5      | 103580 | SEAL, HALLITE, 2 7/8 ID        |
| 1   | 6      | 100604 | 2 7/8 BACKUP RING              |
| 1   | 7      | 100384 | WIPER RING, 2 7/8 ID - 28      |

NOTES: \*3 - (101344) IS USED ON G70 ONLY.

\*1 – (100338) IS USED ON J100 & N140 TOP MOUNT ASSY ONLY.

**GLAND NUT (11144) SEAL KIT PART #A9229**

| QTY | ITEM # | PART # | DESCRIPTION                   |
|-----|--------|--------|-------------------------------|
| 1   | 1      | 100445 | O-RING, 2 ID X 3/16 CS-32     |
| 1   | 2      | 100619 | BACK-UP RING, 2 ID-329        |
| 1   | 3      | 100137 | WIPER RING, 2 ID – 21         |
| 1   | 4      | 100191 | O-RING, 2 3/4 ID X 1/8 CS-232 |
| 1   | 5      | 103216 | SEAL, HALLITE 2" ID           |

**PISTON (11145) SEAL KIT PART # A9230**

| QTY | ITEM # | PART # | DESCRIPTION                             |
|-----|--------|--------|-----------------------------------------|
| 1   | 1      | 100519 | O-RING, 1 5/16 ID X 1/8 CS-219          |
| 1   | 2      | 100155 | O-RING, 2 1/2 OD X 3/16 CS-330          |
| 2   | 3      | 100620 | BACK-UP RING, 2 1/8 ID-330, F60,G70     |
| 2   | 4      | 100566 | WEAR RING, 2 1/2, GLASS FILLED<br>NYLON |

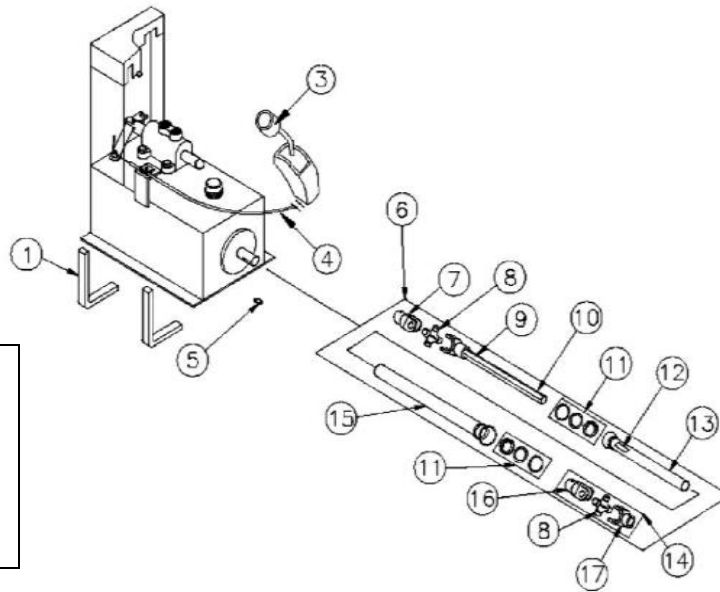
**PISTON (11151) SEAL KIT PART # A9228**

| QTY | ITEM # | PART # | DESCRIPTION                             |
|-----|--------|--------|-----------------------------------------|
| 1   | 1      | 100520 | O-RING, 2 5/8 OD X 1/16 CS-037          |
| 1   | 2      | 100159 | O-RING, 3 1/2 OD X 1/8 CS-236           |
| 1   | 3      | 100621 | BACK-UP RING, 3 1/8 ID-338, G70         |
| 1   | 4      | 100567 | WEAR RING, 3 1/2, GLASS FILLED<br>NYLON |

**DECAL KIT PART # A9778**

| QTY | ITEM # | PART # | DESCRIPTION                                     |
|-----|--------|--------|-------------------------------------------------|
| 1   | 1      | 100896 | DECAL, "HOIST OPERATION INSTRUCTIONS" PTO PUMP  |
| 1   | 2      | 100974 | DECAL KIT, TAIL HINGE 2 3/8 X 8 5/8 LG          |
| 1   | 3      | 101101 | DECAL, BOX PROP 4 3/4 X 10 LG                   |
| 1   | 4      | 101102 | DECAL, BOX PROP 1 1/2 X 9 1/4 LG                |
| 1   | 5      | 101117 | DECAL, "CABLE CONTROL BRACKET" PTO PUMP         |
| 1   | 6      | 101045 | DECAL, MAX CYLINDER PRESSURE 3300 PSI "CAUTION" |

## PTO SHAFT AND PUMP ACCESSORIES

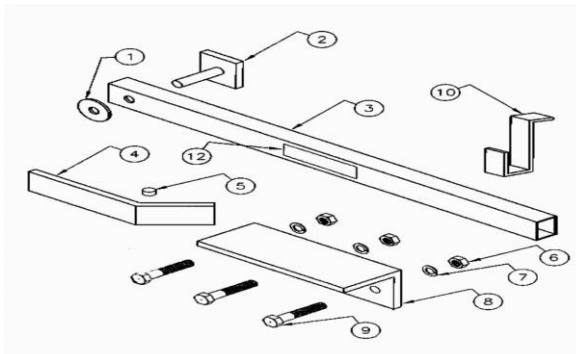


**NOTES:** \*2, 18 – NOT SHOWN.  
 \*3 – UNIT IS SHIPPED WITH PART # W2376.  
 \*4 – VARIOUS LENGTHS AVAILABLE.  
 \*6 – INCLUDES ITEMS 7 THRU 15.  
 \*18 –APPLY DECAL # 100896 ON  
 DASHBOARD AS NEAR AS POSSIBLE  
 TO HOIST CONTROLS. DECAL IS  
 INCLUDED IN KIT # A9775.

### NEVER OPERATE PTO WITHOUT SHIELDS IN PLACE

| QTY | ITEM # | PART # | DESCRIPTION                                      | QTY | ITEM # | PART # | DESCRIPTION                                             |
|-----|--------|--------|--------------------------------------------------|-----|--------|--------|---------------------------------------------------------|
| 2   | 1      | 12890  | PUMP MOUNT BRACKET, ,<br>2 CHANNEL FORMED (TALL) | 1   | 7      | 9802   | YOKE, IMPLEMENT, 1<br>BORE                              |
| 1   | *2     | 103057 | RECEIVER BONNET KIT                              | 2   | 8      | 9788   | CROSS & BEARING KIT,<br>COMPLETE, HOIST                 |
| 1   | *3     | W2376  | CONTROL HEAD, ANGLED                             | 1   | 9      | 9801   | DECAL, "DANGER<br>WARNING" INSIDE<br>SHIELD             |
| 1   | ~      | W2375  | CONTROL HEAD, STRAIGHT                           | 1   | 10     | A9840  | YOKE & SHAFT<br>ASSEMBLY, 1 1/8 HEX X<br>41 3/4 LG      |
| 1   | *4     | 103060 | CABLE RECIEVER W/SHORT<br>FITTING, 72 LG         | 2   | 11     | 9795   | BEARING SHIELD KIT, G &<br>G PTO SHAFT                  |
| 1   | ~      | 103056 | CABLE RECIEVER W/ SHORT<br>FITTING, 84 LG        | 1   | 12     | 9800   | DECAL, "DANGER<br>WARNING" OUTSIDE<br>SHIELD            |
| 1   | ~      | 103061 | CABLE RECEIVER W/ SHORT<br>FITTING, 96 LG        | 1   | 13     | 9793   | OUTER PLASTIC SHIELD,<br>2 11/16 OD, HOIST              |
| 1   | ~      | 103062 | CABLE RECEIVER W/ SHORT<br>FITTING, 120 LG       | 1   | 14     | 102999 | U-JOINT ASSEMBLY, 1 1/8<br>HEX X 1 1/4 RND              |
| 1   | ~      | 103075 | BONNET STYLE CABLE, 144<br>LG                    | 1   | 15     | 9794   | INNER PLASTIC SHIELD, 2<br>3/8 OD, HOIST                |
| 1   | ~      | W2584  | CABLE, BONNET STYLE, 180<br>LG                   | 1   | 16     | 9797   | YOKE, SLIP, 1 1/8 HEX<br>BORE, HOIST                    |
| 1   | 5      | 4451   | KEY, WOODRUFF 7/8 X 1/4 X<br>3/8                 | 1   | 17     | 9799   | YOKE, IMPLEMENT, 1 1/4<br>RND BORE, HOIST               |
| 1   | *6     | 102943 | DRIVE SHAFT, 1 1/8 HEX<br>SHAFT, HOIST           | 1   | 18     | 100896 | DECAL, "HOIST<br>OPERATION<br>INSTRUCTIONS" PTO<br>PUMP |

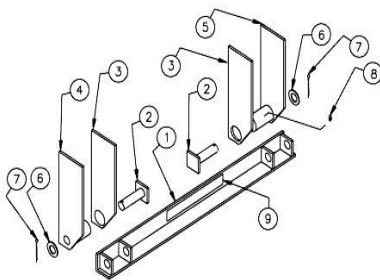
## G70 HOIST SAFETY PROP



**NOTES: \*11** – ITEM NOT SHOWN, APPLY ON OUTSIDE RUB RAIL IN AREA OF THE SERVICE SAFETY PROP. ONE DECAL ON EACH SIDE OF BOX.

### G70 HOIST SAFETY PROP PARTS LIST

| ITEM | PART # | QTY | DESCRIPTION                                       | ITEM | PART # | QTY | DESCRIPTION                                |
|------|--------|-----|---------------------------------------------------|------|--------|-----|--------------------------------------------|
| ~    | A1387  | 1   | BOX PROP, SHIPPING BUNDLE, 915                    | 6    | 100250 | 3   | NUT, HEX 1/2-20 UNF                        |
| 1    | 101123 | 1   | WASHER, FLAT 1 1/8 SAE                            | 7    | 100272 | 3   | WASHER, LOCK, 1/2                          |
| 2    | A12245 | 1   | TOP PIN PLATE ASSEMBLY, HOIST                     | 8    | 12251  | 1   | BOX PROP ANGLE, 3/8 X 3 X 3 X 8 LG, HOIST  |
| 3    | 12243  | 1   | BOX PROP TUBE, 2 X 3 X 37 3/4 LG, HOI             | 9    | 100230 | 3   | SCREW, HX HD CAP, 1/220 UNF X 2 GR5        |
| 4    | 12249  | 1   | SIDE PLATE BAR, 1/4 X 2 X 10 1/2 LG, FORMED, HOIS | 10   | 12256  | 1   | LATCHING BRACKET, FORMED, 2 5/8 X 7 3/4 LG |
| 5    | 12248  | 1   | STOP PEG, 3/8-1/2 THICK X 5/8-7/8 OD              | *11  | 101101 | 2   | DECAL, BOX PROP 4 3/4 X 10 LG              |
|      |        |     |                                                   | 12   | 101102 | 1   | DECAL, BOX PROP 1 1/2 X 9 1/4 LG           |



### TAIL HINGE PARTS

| ITEM | PART #  | QTY | DESCRIPTION                         | ITEM | PART #   | QTY | DESCRIPTION                      |
|------|---------|-----|-------------------------------------|------|----------|-----|----------------------------------|
| ~    | A1281   | 1   | TAIL HINGE 902, 15-A LARGE          | 5    | A10138-2 | 1   | VERTICAL PLATE ASSEMBLY, RH, 902 |
| 1    | A10141  | 1   | ANGLE ASSEMBLY, TAIL HINGE 902      | 6    | 101071   | 2   | WASHER, FLAT 1 1/2               |
| 2    | A10137  | 2   | PIN ASSEMBLY, TAIL HINGE 902        | 7    | 101076   | 2   | COTTER PIN, 3/8 X 2 1/2 LG       |
| 3    | 10139   | 2   | VERTICAL PLATE, 1/2 X 5 X 13 5/8 LG | 8    | 100037   | 2   | GREASE FITTING, DRIVE-IN, 1/4 LG |
| 4    | A10138- | 1   | VERTICAL PLATE                      | 9    | 100974   | 1   | DECAL KIT, TAIL HINGE 2          |
|      | 1       |     | ASSEMBLY, LH, 902                   |      |          |     | 3/8 X 8 5/8 LG                   |

## HOIST SHIPPING GROUP

| OPTION | PUMP   | DESCRIPTION                                                    | SCISSOR | SM<br>PARTS | PTO<br>SHAFT | TAIL-<br>HINGE | BOX<br>PROP | QTY |
|--------|--------|----------------------------------------------------------------|---------|-------------|--------------|----------------|-------------|-----|
| G70-00 | ~~     | NO PUMP                                                        | A1507   | A1786       | ~            | ~              | A1387       | 2   |
| G70-03 | 103067 | PUMP, 8P, 27QT, (2)4-<br>WAY VALVE<br>WMS#F98-6-6R-27-QT       | A1507   | A1746       | A1837        | A1281          | A1387       | 2   |
| G70-04 | 103066 | PUMP, 8P, 27QT, 4WAY<br>VALVE (WMS<br>#F98)<br>WMS#15-6C-27 QT | A1507   | A1746       | A1837        | A1281          | A1387       | 2   |
| G70-08 | 104455 | 27QT HYD PUMP &<br>RESERVIOR ASS'Y                             | A1507   | A1746       | ~            | A1281          | A1387       | 2   |
| G70-09 | 102915 | TANK & VALVE, 2/4WAY<br>VALVES (WMS<br>#W15) F60-H80           | A1507   | A1746       | ~            | A1281          | A1387       | 2   |
| G70-10 | 104455 | 27QT HYD PUMP &<br>RESERVIOR ASS'Y                             | A1507   | A1746       | ~            | A1281          | A1387       | 2   |
|        | 103053 | PUMP, 8 GPM, GP2025<br>(WMS) 1-C-11, PUMP<br>3300PSI           |         |             |              |                |             |     |
| G70-11 | 102915 | TANK & VALVE, 2/4WAY<br>VALVES (WMS<br>#W15) F60-H80           | A1507   | A1746       | ~            | A1281          | A1387       | 2   |
|        | 103053 | PUMP, 8 GPM, GP2025<br>(WMS) 1-C-11, PUMP<br>3300PSI           |         |             |              |                |             |     |
| G70-20 | ~~     | ENGLAND                                                        | A1729   | A1567       | ~            | ~              | ~           | ~   |

**PUMP, 8P 2-4W VALVE, WMS#F98-6-6R-27QT-2416-7**  
**PART # 103067**

| <b>QTY</b> | <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                  |
|------------|---------------|---------------|-----------------------------------------------------|
| 1          | 1             | 103068        | VALVE KIT, 4-WAY, #6                                |
| 1          | 2             | 101275        | VALVE KIT, 4-WAY, #6R                               |
| 2          | 3             | 9282          | RELIEF VALVE, SYSTEM, 3300PSI                       |
| 1          | 4             | 9844          | RELIEF VALVE, AUX, #2559                            |
| 1          | 5             | 9784          | PUMP KIT, 8P HV                                     |
| 1          | 6             | 9783          | PUMP KIT, 8P, F98, 3300PSI                          |
| 1          | 7             | 9036          | RESERVOIR PUMP GASKET                               |
| 2          | 8             | 101273        | GASKET, VALVE, 4-BOLT                               |
| 2          | 9             | 9037          | SHAFT SEAL                                          |
| 1          | 10            | 9331          | HOSE, 3/8 X 22 LG                                   |
| 1          | 11            | 9661          | HOSE, 3/8 X 16 1/2 LG                               |
| 1          | 12            | 103055        | CONTROL KIT, BONNET STYLE 6 W/ CURVED HANDLE, 84 LG |
| 1          | 13            | 4451          | KEY, WOODRUFF 7/8 X 1/4 X 3/8                       |
| 1          | 14            | 100182        | BREATHER CAP, 2 3/4 OD X 1 1/2                      |
| 1          | 15            | 9843          | SAFETY & OPERATING MANUAL, PUMP                     |

**PUMP, 8P-4W VALVE, WMS# F98-6-27QT-2416-7**  
**PART # 103066**

| <b>QTY</b> | <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                  |
|------------|---------------|---------------|-----------------------------------------------------|
| 1          | 1             | 103068        | VALVE KIT, 4-WAY                                    |
| 2          | 2             | 9282          | RELIEF VALVE, SYSTEM                                |
| 1          | 3             | 9783          | PUMP KIT, 8P, F98                                   |
| 1          | 4             | 9036          | RESERVOIR PUMP GASKET                               |
| 2          | 5             | 101273        | GASKET, VALVE, 4-BOLT                               |
| 2          | 6             | 9037          | SHAFT SEAL                                          |
| 1          | 7             | 9661          | HOSE, 3/8 X 16 1/2 LG                               |
| 1          | 8             | 4451          | KEY, WOODRUFF 7/8 X 1/4 X 3/8                       |
| 1          | 9             | 100182        | BREATHER CAP, 2 3/4 OD X 1 1/2                      |
| 1          | 10            | 103055        | CONTROL KIT, BONNET STYLE 6 W/ CURVED HANDLE, 84 LG |
| 1          | 11            | 9843          | SAFETY & OPERATING MANUAL, PUMP                     |

**TANK & VALVE, 4W VALVE, WMS#W15-6C-27QT-2416-7  
PART # 102912**

| <b>QTY</b> | <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                  |
|------------|---------------|---------------|-----------------------------------------------------|
| 1          | 1             | 102671        | VALVE, 4-WAY, 6WCR                                  |
| 2          | 2             | 9282          | RELIEF VALVE, SYSTEM                                |
| 1          | 3             | 9279          | RELIEF VALVE                                        |
| 2          | 4             | 101273        | GASKET, VALVE, 4-BOLT                               |
| 1          | 5             | 9842          | INTAKE FILTER SCREEN, W15 TANK & VALVE              |
| 1          | 6             | 100182        | BREATHING CAP, 2 3/4 OD X 1 1/2                     |
| 1          | 7             | 103055        | CONTROL KIT, BONNET STYLE 6 W/ CURVED HANDLE, 84 LG |
| 1          | 8             | 9843          | SAFETY & OPERATING MANUAL, PUMP                     |

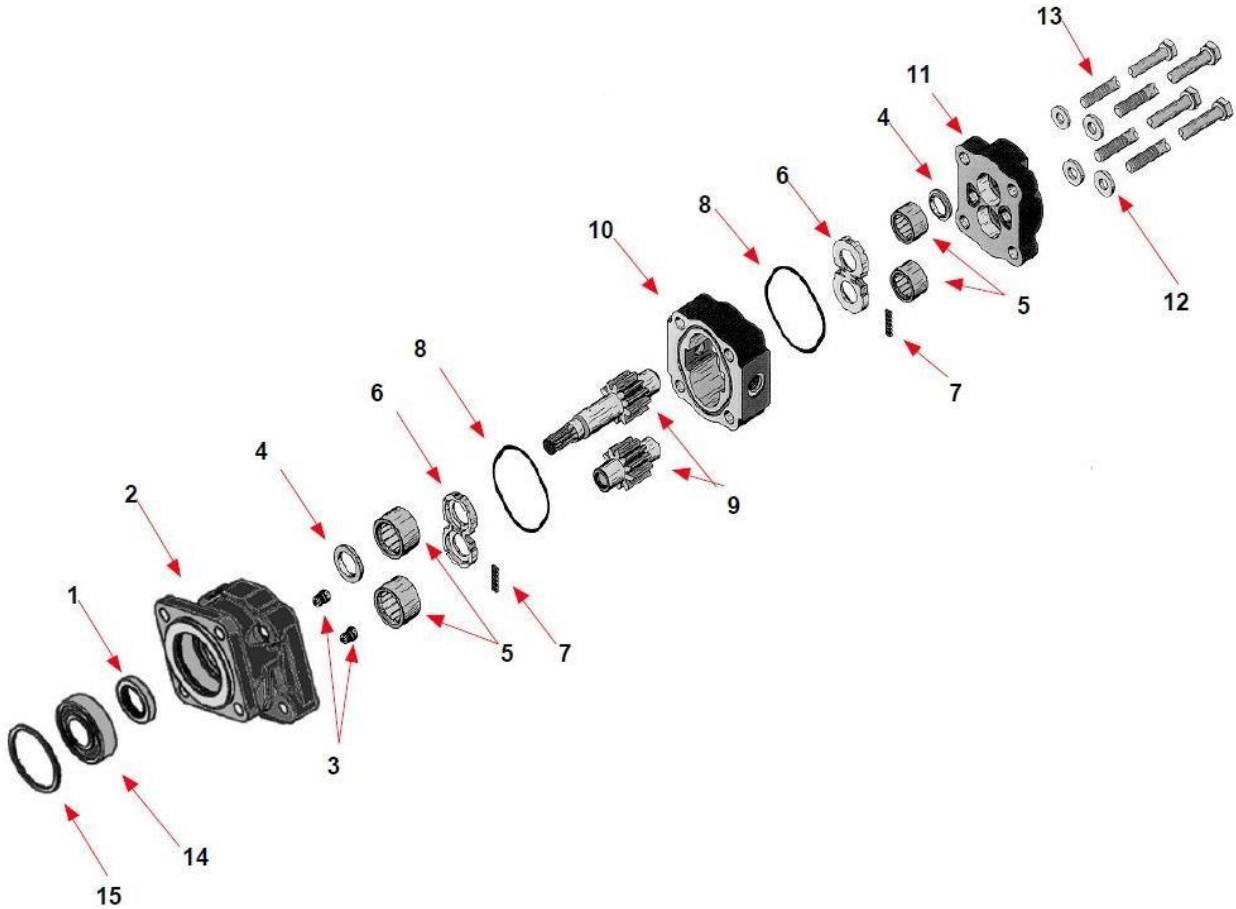
**TANK & VALVE, 2-4W VALVES, WMS#W15-6-6R-27QT-2416-7  
PART # 102915**

| <b>QTY</b> | <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                  |
|------------|---------------|---------------|-----------------------------------------------------|
| 1          | 1             | 102959        | VALVE KIT, 4-WAY                                    |
| 2          | 2             | 101275        | VALVE KIT, 4-WAY                                    |
| 1          | 3             | 9282          | RELIEF VALVE, SYSTEM                                |
| 2          | 4             | 101273        | GASKET, VALVE, 4-BOLT                               |
| 1          | 5             | 9101          | INTAKE FILTER SCREEN                                |
| 1          | 6             | 100182        | BREATHING CAP, 2 3/4 OD X 1 1/2                     |
| 1          | 7             | 103055        | CONTROL KIT, BONNET STYLE 6 W/ CURVED HANDLE, 84 LG |
| 1          | 8             | 9843          | SAFETY & OPERATING MANUAL, PUMP                     |

**TANK & VALVE, 2-4W VALVES, BUCHER PARTS  
PART # 104455**

| <b>QTY</b> | <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                  |
|------------|---------------|---------------|-----------------------------------------------------|
| 1          | 1             | 104456        | VALVE 4 WAY ELEMENT.27QT. RESIVOI ASSEMBLY [BUCHER] |
| 2          | 2             | 104463        | 4-WAY VALVE SECTION {RT520} [BUCHER]                |
| 1          | 3             | 9282          | RELIEF VALVE, SYSTEM                                |
| 2          | 4             | 101273        | GASKET, VALVE, 4-BOLT                               |
| 1          | 5             | 9101          | INTAKE FILTER SCREEN                                |
| 1          | 6             | 100182        | BREATHING CAP, 2 3/4 OD X 1 1/2                     |
| 1          | 7             | 104464        | CABLE,120" WESCON [BUCHER]                          |
| 1          | 8             | 9843          | SAFETY & OPERATING MANUAL, PUMP                     |

## PUMP, P-20 (GP2025) PART # 103053



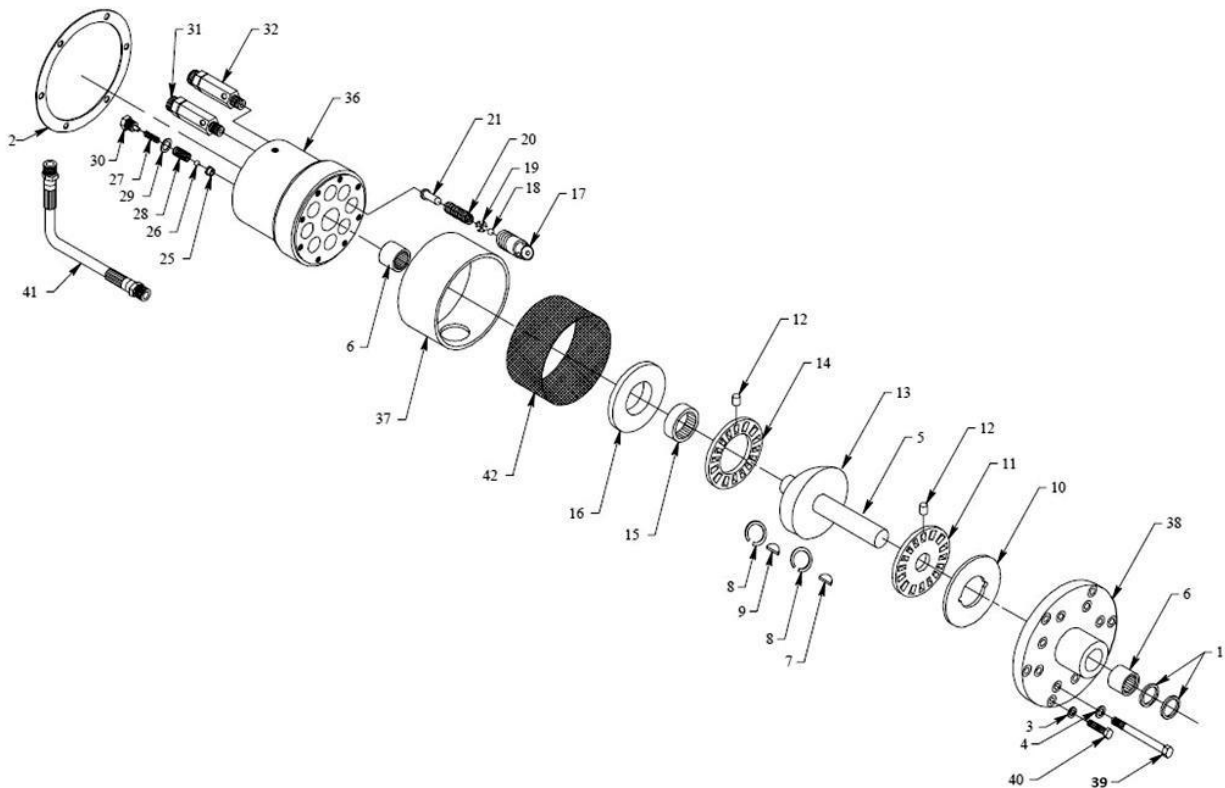
| ITEMS | DESCRIPTION            | ITEMS                             | DESCRIPTION    |
|-------|------------------------|-----------------------------------|----------------|
| 1     | LIP SEAL               | 9                                 | GEAR SET       |
| 2     | SHAFT END COVER        | 10                                | GEAR HOUSING   |
| 3     | CHECKS (2)             | 11                                | PORT END COVER |
| 4     | RING SEALS (2)         | 12                                | WASHERS (4)    |
| 5     | BEARINGS (4)           | <b>*NOT REQUIRED ON ALL UNITS</b> |                |
| 6     | THRUST PLATES (2)      | 13                                | CAP SCREWS (4) |
| 7     | POCKET SEAL STRIPS (2) | 14                                | *OUTBOARDING   |
| 8     | SECTION SEALS (2)      | 15                                | BEARINGS       |
|       |                        |                                   | *SPIRAL LOCK   |

## SEAL KIT, P20 PUMP PART # A9558

| QTY | ITEM # | PART # | DESCRIPTION           |
|-----|--------|--------|-----------------------|
| 1   | 1      | 102462 | PUMP, P20 SHAFT SEAL  |
| 1   | 7      | 102463 | PUMP, P20 POCKET SEAL |
| 2   | 8      | 102464 | PUMP, P20 GASKET SEAL |



## MODEL F98 DIRECT MOUNT PUMP PART # 9783



NOTES: ITEM \*36 NOT SOLD SEPARATELY!!!

### 9783 PARTS LIST

| ITEM                           | DESCRIPTION            | ITEM                        | DESCRIPTION         |
|--------------------------------|------------------------|-----------------------------|---------------------|
| <b>SEAL KIT</b>                |                        | <b>PISTON KIT</b>           |                     |
| 1                              | OIL SEAL               | 17                          | PISTON              |
| 2                              | PUMP GASKET            | 18                          | BALL                |
| 3                              | ALUMINUM WASHER        | 19                          | BALL STOP           |
| 4                              | ALUMINUM WASHER        | 20                          | SPRING              |
| <b>SHALF &amp; BEARING KIT</b> |                        | 21                          | SPRING PIVOT        |
| 5                              | SHALF                  | <b>EXHAUST VALVE KIT</b>    |                     |
| 6                              | NEEDLE BEARING         | 25                          | SEAT                |
| 7                              | SHALF KEY              | 26                          | BALL                |
| 8                              | SNAP RING              | 27                          | EXHAUST SPRING      |
| 9                              | WOBBLE KEY             | 28                          | CAGE SPRING         |
| <b>THRUST BEARING KIT</b>      |                        | 29                          | WASHER              |
| 10                             | THRUST RACE            | 30                          | PORT STUD           |
| 11                             | FRONT ROLLER RETAINER  | <b>REMAINING PUMP PARTS</b> |                     |
| 12                             | THRUST ROLLER RETAINER | 31,32                       | DUAL RELIEF VALVE   |
| 13                             | WOBBLE PLATE           | *36                         | PUMP CASTING        |
| 14                             | REAR ROLLER RETAINER   | 37                          | INTAKE HOUSING TUBE |
| 15                             | THRUST PLATE BEARING   | 38                          | FRONT CASTING       |
| 16                             | PISTON THRUST PLATE    | 39                          | PUMP ASSEMBLY BOLT  |
|                                |                        | 40                          | WASHER              |
|                                |                        | 42                          | INTAKE SCREEN       |

