



# RL-E55

## PARTS LIST # 102691 I

USE THIS PARTS LIST FOR:

Hoist Serial Number    3492 to \_\_\_\_\_

For older hoists use the following:  
Parts List No. 102691F for Serial Number 001 to 3491

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

LOCAL: (970) 454-1755

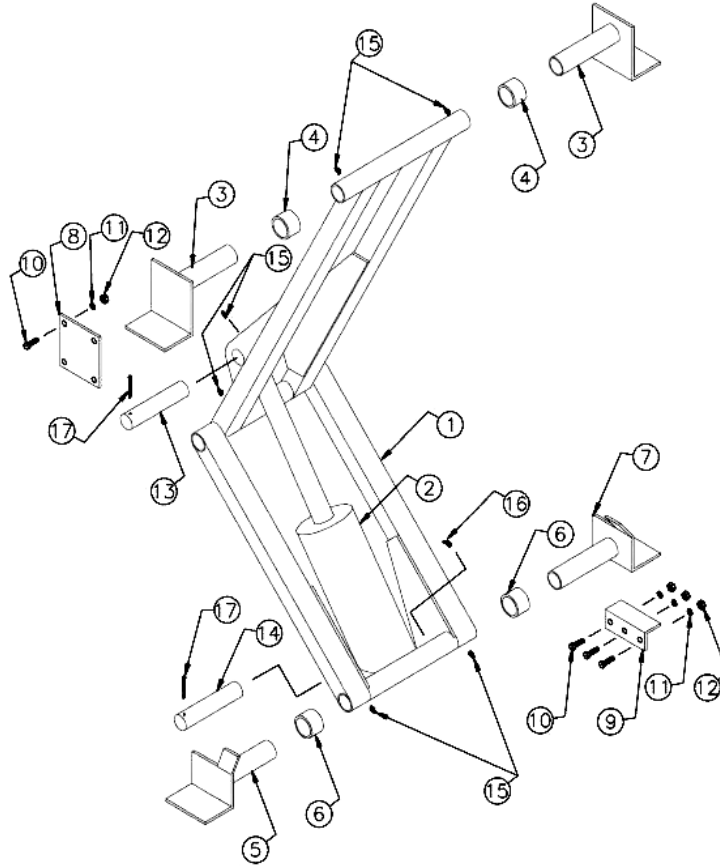
EMAIL: [customersupport@harshenviro.com](mailto:customersupport@harshenviro.com)

UPDATED AUGUST 2020

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## E55 HOIST SCISSOR ASSEMBLY



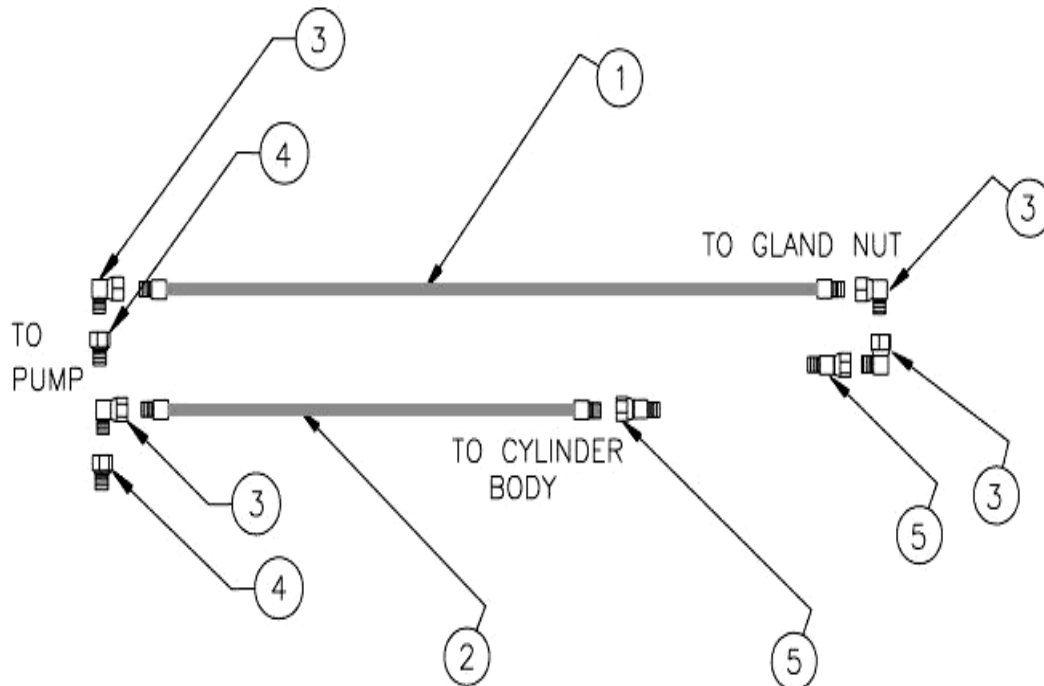
### E55 HOIST SCISSOR ASSEMBLY & PARTS LIST

**NOTES: \*2 – A16480 INCLUDES CYLINDER ASSY & ZERKS.**

**\*18 – A9777 INCLUDES ALL DECALS USED ON HOIST. SOME HOISTS MAY HAVE TAPPING ZERKS IN VARIOUS LOCATIONS.**

| ITEM | PART # | QTY | DESCRIPTION                                   | ITEM | PART # | QTY | DESCRIPTION                                    |
|------|--------|-----|-----------------------------------------------|------|--------|-----|------------------------------------------------|
| 1    | A16502 | 1   | SCISSOR ASSEMBLY, E55                         | 10   | 100230 | 14  | SCREW, HX HD CAP, 1/2-20 UNF X 2 GR5           |
| *2   | A16480 | 1   | CYLINDER ASSEMBLY, RL-E55                     | 11   | 100272 | 14  | WASHER, LOCK, 1/2                              |
| 3    | A16527 | 2   | UPPER MOUNT ASSEMBLY, E55                     | 12   | 100250 | 14  | NUT, HEX 1/2-20 UNF                            |
| 4    | 15877  | 2   | SPACER TUBE, 3 OD X 1 3/4 LG                  | 13   | 16521  | 1   | CYLINDER MOUNT PIN, 2 7/16 OD X 13 3/4 LG, E55 |
| 5    | A16525 | 1   | LOWER MOUNT ASSEMBLY, E55                     | 14   | 16522  | 1   | CYLINDER MOUNT PIN, 2 7/16 OD X 16 5/8 LG, E55 |
| 6    | 15573  | 2   | SPACER TUBE, 3 OD X 1 3/4 LG                  | 15   | 100037 | 6   | GREASE FITTING, DRIVE-IN, 1/4 LG               |
| 7    | A16526 | 1   | LOWER MOUNT ASSEMBLY, E55                     | 16   | 100875 | 2   | GREASE FITTING, 45° DRIVE-IN                   |
| 8    | 11126  | 2   | STRINGER PLATE, 6 X 10 LG W/ 4 HOLES, E50-H80 | 17   | 102132 | 2   | COTTER PIN, 1/2 X 4 LG                         |
| 9    | 11127  | 2   | ANGLE, 3 X 4 X 10 LG, E50-H80                 | 18   | A9777  | 1   | DECAL KIT, HOIST E50-E55                       |

## E55 HOIST HOSE ASSEMBLY



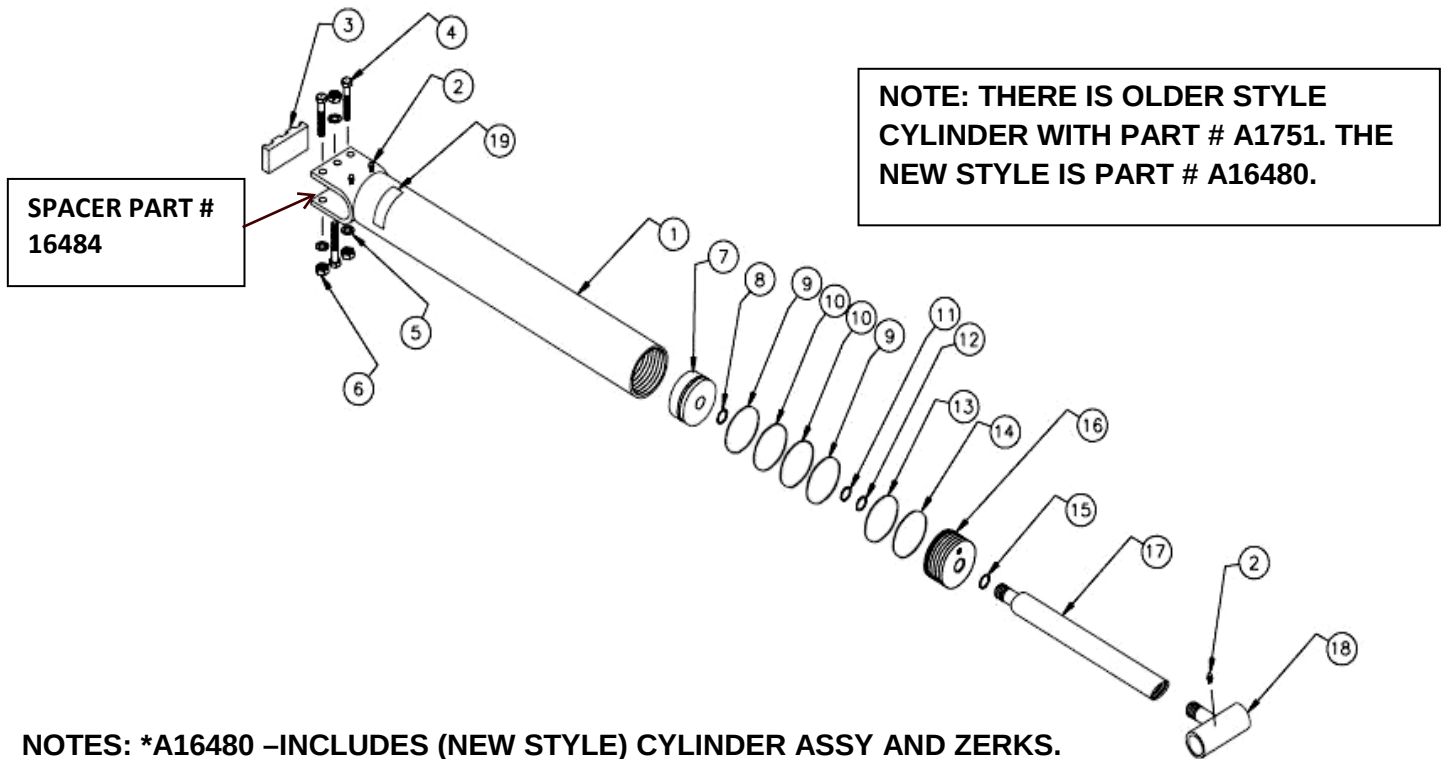
**NOTES: \*3 – FOR PUMP USE 100451 QTY 4.**

**\*4 – FOR TANK & VALVE ADD BUSHING (10015) TO ELBOW (100451) BEFORE CONNECTING TO VALVE.**

## E55 HOIST HOSE ASSEMBLY & PARTS LIST

| ITEM | PART # | QTY | DESCRIPTION                            | ITEM | PART # | QTY | DESCRIPTION                        |
|------|--------|-----|----------------------------------------|------|--------|-----|------------------------------------|
| 1    | 100973 | 1   | HOSE, 3/8 X 72 LG, (M)RIGID, (M)SWIVE  | 4    | 100015 | 2   | BUSHING, HEX 1/2NPT(F) X 3/8NPT(F) |
| 2    | 100000 | 1   | HOSE, 3/8 X 49 LG, (M)RIGID, (M)SWIVEL | 5    | 102246 | 2   | FITTING, #6SAE 3/8NPT(F) SWIVEL    |
| 3    | 100451 | 4   | ELBOW, STREET, 90° X 3/8, NO SWIVEL    | 6    |        |     |                                    |

## E55 HOIST CYLINDER

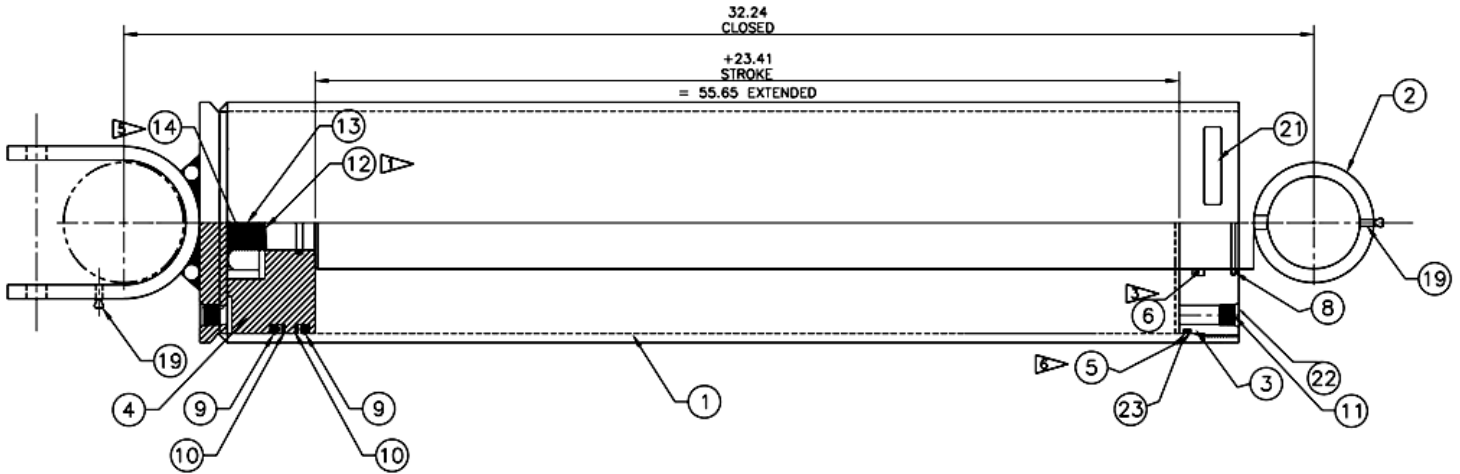


**NOTES:** \*A16480 –INCLUDES (NEW STYLE) CYLINDER ASSY AND ZERKS.  
 \*9-11 – NOT SOLD SEPARATELY, SOLD AS SEAL KIT #A9434 ONLY!  
 \*12-15 –NOT SOLD SEPARATELY, SOLD AS SEAL KET #A9435 ONLY!  
 \*PN 100557+100623 REPLACED BY HALLITE SEAL 605 DEEP V-CUP PN 104419  
 ITEM # 16484 - CYLINDER MOUNT TUBE, 3 1/4 OD X 7 31/32 LG

### E55 HOIST CYLINDER PARTS LIST

| ITEM | PART # | QTY | DESCRIPTION                                        | ITEM | PART # | QTY | DESCRIPTION                                     |
|------|--------|-----|----------------------------------------------------|------|--------|-----|-------------------------------------------------|
| ~    | A16480 | 1   | CYLINDER ASSEMBLY, RL-E55                          | *12  | 100623 | 1   | BACK-UP RING, 2 1/2 ID-333                      |
| 1    | A16481 | 1   | CYLINDER BODY ASSEMBLY, E55                        | *13  | 102338 | 1   | O-RING, 5 3/4 ID X 1/8 CS-256                   |
| 2    | 100037 | 3   | GREASE FITTING, DRIVE IN                           | *14  | 103647 | 1   | BACKUP RING, 5 3/4 8-256                        |
| 3    | 15870  | 1   | CYLINDER MOUNT SPACER PLATE, 3/4 X 3/8 X 7 LG, D40 | *15  | 100561 | 1   | WIPER RING, 2 1/2 ID                            |
| 4    | 101071 | 1   | WASHER, FLAT 1 1/2                                 | 16   | 16489  | 1   | GLAND NUT, INTERNAL 6 3/16 OD X 2 1/2 ID, E55   |
| 7    | 16485  | 1   | PISTON, 6 OD X 2 3/8 LG W/ RELIEF PORT, E55        | 17   | A16486 | 1   | CYLINDER SHAFT ASSEMBLY, E55                    |
| ~    | A9434  | 1   | SEAL KIT, E55 PISTON                               |      | 101349 | 1   | RETAINING RING, 5/8-62                          |
| *9   | 100429 | 2   | O-RING, 6 OD X 1/4 CS-433                          |      | 13212  | 1   | TUBING, 5/8 OD X 5/16 ID X 15/64 LG             |
| *10  | 100617 | 2   | BACK-UP RING, 5 1/2 ID-433                         |      | 101347 | 1   | SPRING, 17/32 OD X 1 1/8 LG                     |
| *11  | 100152 | 1   | O-RING, 1 3/4 OD X 1/8 CS-222                      |      | 101348 | 1   | BALL, 3/8 OD, CHROME                            |
| ~    | A9435  | 1   | SEAL KIT, GLAND NUT, E55                           | 19   | 101045 | 1   | DECAL, MAX CYLINDER PRESSURE 3300 PSI "CAUTION" |
| *    | 100557 | 1   | O-RING, 2 7/8 OD X 3/16 CS-333                     |      |        |     |                                                 |

## E55 HOIST CYLINDER PART # A16480



### NOTES:

- 1** APPLY ADHESIVE SEALANT TO 4 THREADS ALL AROUND AT ASSY TIME.
  - 2** CYLINDER TO BE OPERATIONAL PRESSURE CHECKED AT 3300 PSI HYDRAULICALLY.
  - 3** INSTALL PIPE PLUGS INTO CYLINDER PORTS.
  - 5** STAKE JAM NUT PRIOR INSTALLATION.
  - 6** GREASE MUST BE APPLIED TO STATIC SEAL ON GLAND PRIOR ASSEMBLY.
- ITEMS 7, 15, 16, 17, & 18. ARE NOT USED.**

### E55 HOIST CYLINDER PARTS LIST

| ITEM | PART # | QTY | DESCRIPTION                                   | ITEM | PART # | QTY | DESCRIPTION                                     |
|------|--------|-----|-----------------------------------------------|------|--------|-----|-------------------------------------------------|
| ~    | A16480 | 1   | CYLINDER ASSEMBLY, RL-E55                     | *9   | 100429 | 2   | O-RING, 6 OD X 1/4 CS-433                       |
| 1    | A16481 | 1   | CYLINDER BODY ASSEMBLY, E55                   | *10  | 100617 | 2   | BACK-UP RING, 5 1/2 ID-433                      |
| 2    | A16486 | 1   | CYLINDER SHAFT ASSEMBLY, E55                  | *11  | 100152 | 1   | O-RING, 1 3/4 OD X 1/8 CS-222                   |
| 3    | 16489  | 1   | GLAND NUT, INTERNAL 6 3/16 OD X 2 1/2 ID, E55 | 12   | 100552 | 1   | ADHESIVE SEALANT                                |
| 4    | 16485  | 1   | PISTON, 6 OD X 2 3/8 LG W/ RELIEF PORT, E55   | 13   | 101071 | 1   | WASHER, FLAT 1 1/2                              |
| ~    | A9435  | 1   | SEAL KIT, GLAND NUT, E55                      | 14   | 100253 | 1   | NUT, HEX JAM, 1 1/2-12 UNF GR8                  |
| *5   | 102338 | 1   | O-RING, 5 3/4 ID X 1/8 CS-256                 | 19   | 100037 | 3   | GREASE FITTING, DRIVE-IN, 1/4 LG                |
| *6   | 104419 | 1   | SEAL, HALLITE BS-18702500-312 STYLE 605       | 21   | 101045 | 1   | DECAL, MAX CYLINDER PRESSURE 3300 PSI "CAUTION" |
| *8   | 100561 | 1   | WIPER RING, 2 1/2 ID                          | 22   | 101669 | 2   | PLUG, STEEL, #6 SAE, 9/16-18                    |
| ~    | A9434  | 1   | SEAL KIT, E55 PISTON                          | *23  | 103647 | 1   | BACK-UP RING, 5 3/4 ID X 8-256                  |

**PISTON (16485) SEAL KIT  
PART # A9434**

| ITEM | PART # | QTY | DESCRIPTION                   |
|------|--------|-----|-------------------------------|
| 1    | 100152 | 1   | O-RING, 1 3/4 OD X 1/8 CS-222 |
| 2    | 100429 | 2   | O-RING, 6 OD X 1/4 CS-433     |
| 3    | 100617 | 2   | BACK-UP RING, 5 1/2 ID-433    |

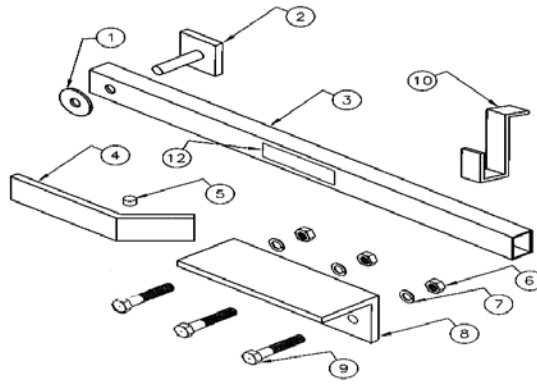
**GLAND NUT (16489) SEAL KIT  
PART # A9435**

| ITEM | PART # | QTY | DESCRIPTION                    |
|------|--------|-----|--------------------------------|
| 1    | 102338 | 1   | O-RING, 5 3/4 ID X 1/8 CS-256  |
| 2    | 100557 | 2   | O-RING, 2 7/8 OD X 3/16 CS-333 |
| 3    | 100623 | 1   | BACK-UP RING, 2 1/2 ID-333     |
| 4    | 100561 | 1   | WIPER RING, 2 1/2 ID           |
| 5    | 103647 | 1   | BACK-UP RING, 5 3/4 ID X 8-256 |
| 6    | 104419 | 1   | SEAL, HALLITE 605 DEEP V-CUP   |

**DECAL KIT, E50 & E55  
PART # A9777**

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

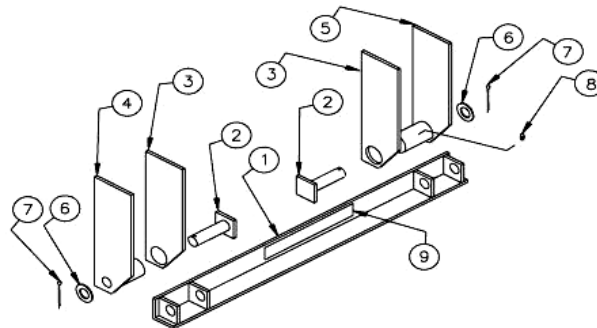
## E55 HOIST SAFETY PROP



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

### E55 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, 1/2-20 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 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           |

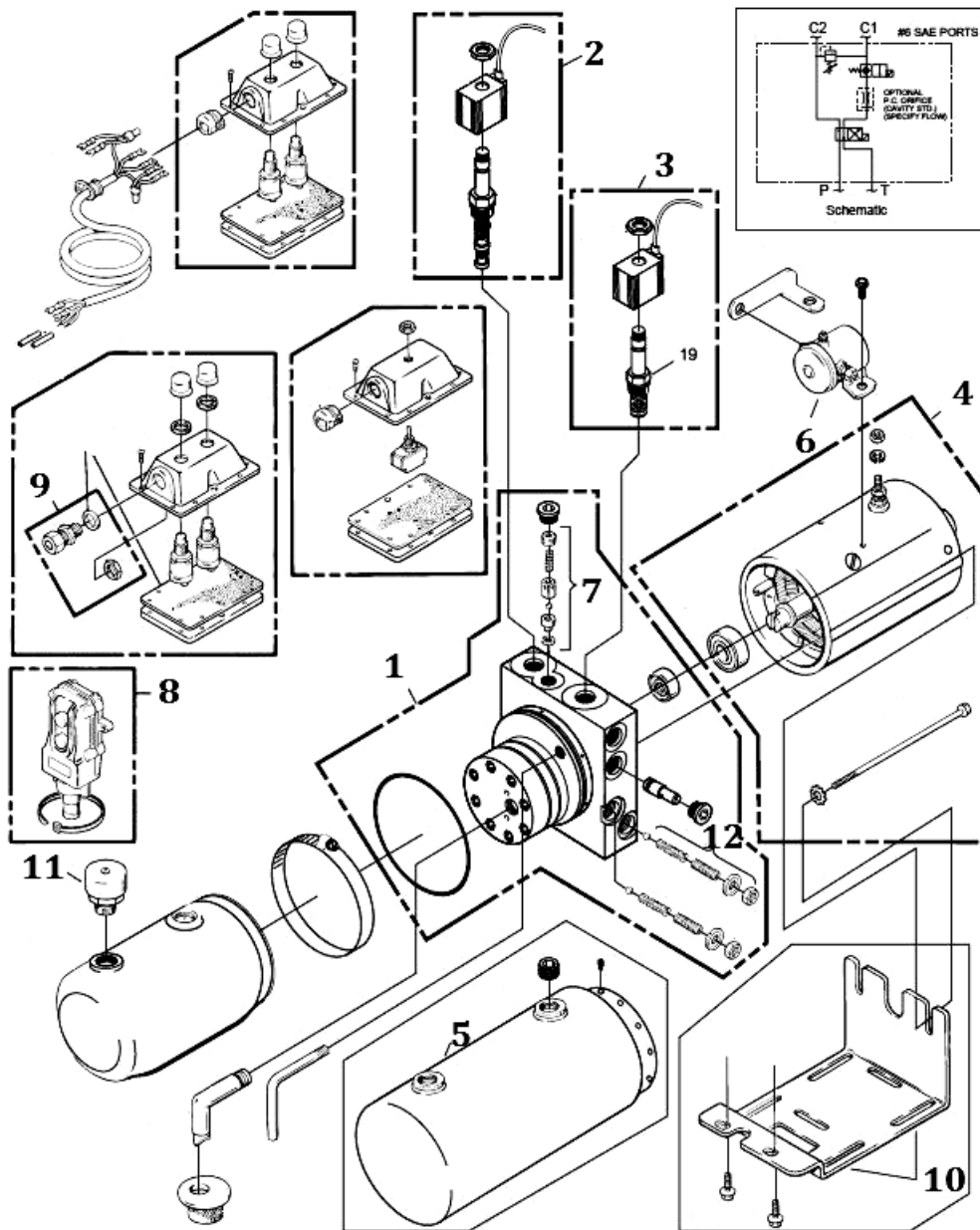


### TAIL HINGE PARTS LIST

| ITEM | PART #   | QTY | DESCRIPTION                        | ITEM | PART #   | QTY | DESCRIPTION                            |
|------|----------|-----|------------------------------------|------|----------|-----|----------------------------------------|
| ~    | A1282    | 1   | TAIL HINGE 905, 15-A SMALL         | 5    | A10167-2 | 1   | VERTICAL PLATE ASSEMBLY, RH, 905       |
| 1    | A10170   | 1   | ANGLE ASSEMBLY, TAIL HINGE 905     | 6    | 101123   | 2   | WASHER, FLAT 1 1/8 SAE                 |
| 2    | A10164   | 2   | PIN ASSEMBLY, TAIL HINGE 905       | 7    | 101077   | 2   | COTTER PIN, 1/4 X 2 LG                 |
| 3    | 10165    | 2   | VERTICAL PLATE 3/8 X 4 X 11 5/8 LG | 8    | 100037   | 2   | GREASE FITTING, DRIVE-IN, 1/4 LG       |
| 4    | A10167-1 | 1   | VERTICAL PLATE ASSEMBLY, LH, 905   | 9    | 100974   | 1   | DECAL KIT, TAIL HINGE 2 3/8 X 8 5/8 LG |



**PUMP, ELECTRIC M-3551-D100 3300 PSI.  
PART # 103247**



| QTY | ITEM # | PART # | DESCRIPTION                                     |
|-----|--------|--------|-------------------------------------------------|
| 1   | 1      | 103247 | ELECTRIC PUMP, 3300PSI, E55                     |
| 1   | 2      | 9850   | VALVE, 4-WAY                                    |
| 2   | 3      | 9851   | VALVE, 2-WAY                                    |
| 1   | 4      | 9987   | ELECTRIC PUMP MOTOR                             |
| 1   | 5      | 9986   | ELECTRIC PUMP RESERVOIR                         |
| 1   | 6      | 4437   | SOLENOID ELECTRIC PUMP, SWITCH                  |
| 1   | 7      | 9856   | ELECTRIC PUMP, POPPET ASSEMBLY, FLOW CONTROL    |
| 1   | 8      | 9985   | CONTROL BOX ASSEMBLY, 3-BUTTON 120" CABLE, E-55 |
| 1   | 9      | 9984   | RELIEF VALVE PARTS KIT                          |
| 1   | 10     | 9859   | ELECTRIC PUMP MOUNT BRACKET                     |
| 1   | 11     | 9983   | ELECTRIC PUMP, VENT PLUG                        |
| 1   | 12     | 9858   | RELIEF VALVE PARTS KIT                          |

## E55 HOIST SHIPPING GROUP

| OPTION | PUMP   | DESCRIPTION                                     | SCISSOR | SM PARTS | PTO SHALF | TAIL HINGE | BOX PROP | QTY |
|--------|--------|-------------------------------------------------|---------|----------|-----------|------------|----------|-----|
| E55-00 | ~~     | NO PUMP                                         | A1750   | A1752    | ~~        | ~~         | A1387    |     |
| E55-03 | 103067 | PUMP, 8P, 27QT, (2)4-WAY VALVE (WMS #F98)       | A1750   | A1761    | A1837     | A1282      | A1387    | 1   |
| E55-04 | 103066 | PUMP, 8P, 27QT, 4-WAY VALVE (WMS #F98)          | A1750   | A1761    | A1837     | A1282      | A1387    | 1   |
| E55-07 | 103247 | ELECTRIC PUMP, 3300PSI, E55                     | A1750   | A1883    | ~~        | A1282      | A1387    | 1   |
| E55-08 | 104455 | 27QT HYD PUMP & RESERVIOR ASS'Y                 | A1750   | A1761    | ~~        | A1282      | A1387    | 1   |
| E55-09 | 102915 | TANK & VALVE, 2/4-WAY VALVES (WMS #W15) F60-H80 | A1750   | A1761    | ~~        | A1282      | A1387    | 1   |
| E55-10 | 104455 | 27QT HYD PUMP & RESERVIOR ASS'Y                 | A1750   | A1761    | ~~        | A1282      | A1387    | 1   |
|        | 103053 | PUMP, 8 GPM, GP2025 (WMS) 1-C-11, PUMP 3300PSI  |         |          |           |            |          |     |
| E55-11 | 102915 | TANK & VALVE, 2/4-WAY VALVES (WMS #W15) F60-H80 | A1750   | A1761    | ~~        | A1282      | A1387    | 1   |
|        | 103053 | PUMP, 8 GPM, GP2025 (WMS) 1-C-11, PUMP 3300PSI  |         |          |           |            |          |     |
| E55-20 | ~~     | ENGLAND                                         | A1768   | ~~       | ~~        | ~~         | ~~       | ~~  |

