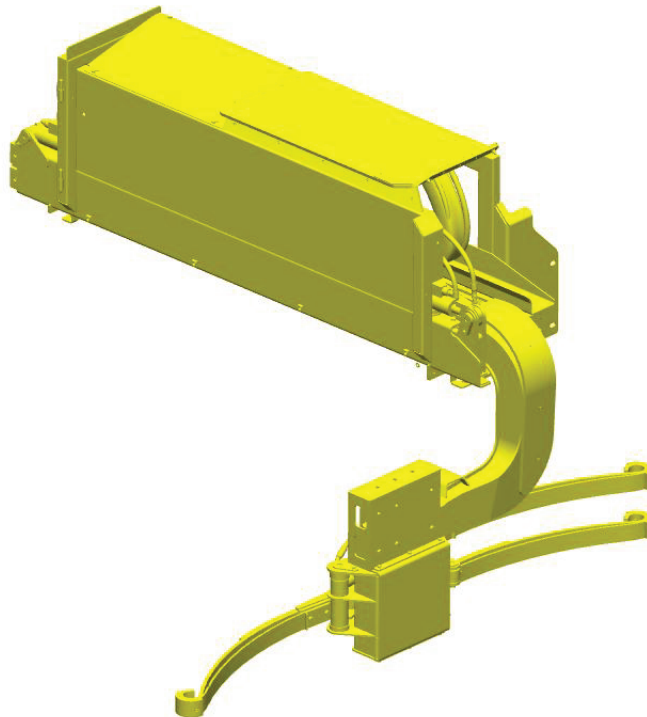


# Parts Manual



## HELPING HAND ARM



**labrie**  
Labrie **Enviroquip** Group

equipment for the solid waste industry



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Thank you for your purchase of a new Labrie Helping Hand Arm. To ensure maximum reliability, Insist on genuine **labrie*plus*** replacement parts. Labrie Plus replacement parts are designed and manufactured to exacting standards. The use of counterfeit, will-fit or substitute parts may effect the operation and performance of the unit.

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equipment for the solid waste industry



**WITTKE**

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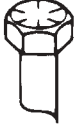
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## CAPSCREW MARKING AND TORQUE VALUES

| Usage                                                                                                                                                                               | Much Used                                                                         | Used at Times                                                                                                                                                              | Used at Times                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Capscrew Diameter & Minimum Tensile Strength PSI                                                                                                                                    | To 3/4 - 120,000<br>To 1 - 115,000                                                | To 5/8 - 140,000<br>To 3/4 - 133,000                                                                                                                                       | 150,000                                                                             |
| Quality of Material                                                                                                                                                                 | Min. Commercial                                                                   | Med. Commercial                                                                                                                                                            | Best Commercial                                                                     |
| SAE Grade Number                                                                                                                                                                    | 5                                                                                 | 6 or 7                                                                                                                                                                     | 8                                                                                   |
| CAPSCREW HEAD MARKINGS<br>Manufacturers marks may vary.<br>These are all SAE Grade 5 (3-line.)<br> |  | <br> |  |
| Capscrew Body Size (Inches) - (Thread)                                                                                                                                              | Torque Ft-Lb (kg m)                                                               | Torque Ft-Lb (kg m)                                                                                                                                                        | Torque Ft-Lb (kg m)                                                                 |
| 1/4 - 20                                                                                                                                                                            | 8 (1.11)                                                                          | 10 (1.38)                                                                                                                                                                  | 12 (1.66)                                                                           |
| - 28                                                                                                                                                                                | 10 (1.38)                                                                         |                                                                                                                                                                            | 14 (1.94)                                                                           |
| 5/16 - 18                                                                                                                                                                           | 17 (2.35)                                                                         | 19 (2.63)                                                                                                                                                                  | 24 (3.32)                                                                           |
| - 24                                                                                                                                                                                | 19 (2.63)                                                                         |                                                                                                                                                                            | 27 (3.73)                                                                           |
| 3/8 - 16                                                                                                                                                                            | 31 (4.29)                                                                         | 34 (4.70)                                                                                                                                                                  | 44 (6.09)                                                                           |
| - 24                                                                                                                                                                                | 35 (4.84)                                                                         |                                                                                                                                                                            | 49 (6.78)                                                                           |
| 7/16 - 14                                                                                                                                                                           | 49 (6.78)                                                                         | 55 (7.61)                                                                                                                                                                  | 70 (9.68)                                                                           |
| - 20                                                                                                                                                                                | 55 (7.61)                                                                         |                                                                                                                                                                            | 78 (10.79)                                                                          |
| 1/2 - 13                                                                                                                                                                            | 75 (10.37)                                                                        | 85 (11.76)                                                                                                                                                                 | 105 (14.52)                                                                         |
| - 20                                                                                                                                                                                | 85 (11.76)                                                                        |                                                                                                                                                                            | 120 (16.60)                                                                         |
| 9/16 - 12                                                                                                                                                                           | 110 (15.21)                                                                       | 120 (16.60)                                                                                                                                                                | 155 (21.44)                                                                         |
| - 18                                                                                                                                                                                | 120 (16.60)                                                                       |                                                                                                                                                                            | 170 (23.51)                                                                         |
| 5/8 - 11                                                                                                                                                                            | 150 (20.75)                                                                       | 167 (23.10)                                                                                                                                                                | 210 (29.04)                                                                         |
| - 18                                                                                                                                                                                | 170 (23.51)                                                                       |                                                                                                                                                                            | 240 (33.19)                                                                         |
| 3/4 - 10                                                                                                                                                                            | 270 (37.34)                                                                       | 280 (38.72)                                                                                                                                                                | 375 (51.86)                                                                         |
| - 16                                                                                                                                                                                | 295 (40.80)                                                                       |                                                                                                                                                                            | 420 (58.09)                                                                         |
| 7/8 - 9                                                                                                                                                                             | 395 (54.63)                                                                       | 440 (60.85)                                                                                                                                                                | 605 (83.67)                                                                         |
| - 14                                                                                                                                                                                | 435 (60.16)                                                                       |                                                                                                                                                                            | 675 (93.35)                                                                         |
| 1 - 8                                                                                                                                                                               | 590 (81.60)                                                                       | 660 (91.28)                                                                                                                                                                | 910 (125.85)                                                                        |
| - 14                                                                                                                                                                                | 660 (91.28)                                                                       |                                                                                                                                                                            | 990 (136.92)                                                                        |

### NOTES:

1. Always use the torque values listed above when specific torque values are not available.
2. The above is based on use of clean, dry threads.
3. Reduce torque by 10% when engine oil is used as a lubricant.
4. Reduce torque by 20% if new plated capscrews are used.
5. General Formula for calculating Torques is as follows: Torque in Inch Lbs. = .2 x Nominal Diameter of Screw x Loads in Lbs., where Load = 80% of Yield Strength, expressed in Lbs., not pounds per square inch.



**SECTION 1**  
**DECALS**

---



84012 = English/French  
84013 = English/Spanish



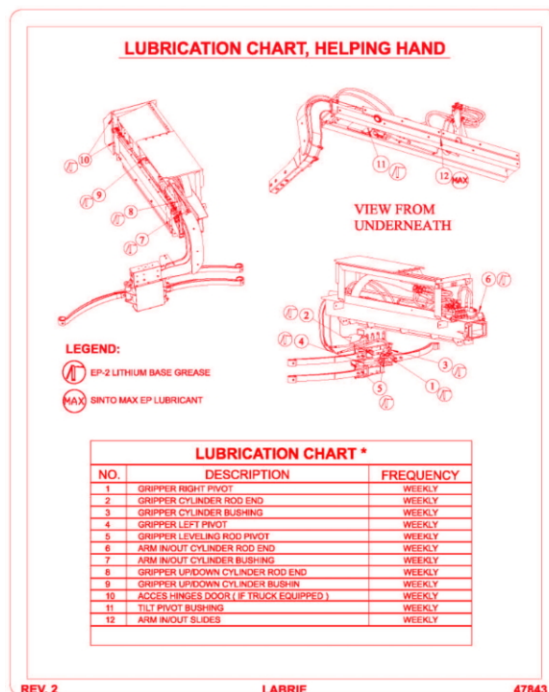
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43883 = French



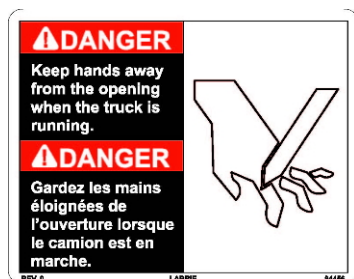
84010 = English/French  
84011 = English/ Spanish

# SECTION 1

## DECALS



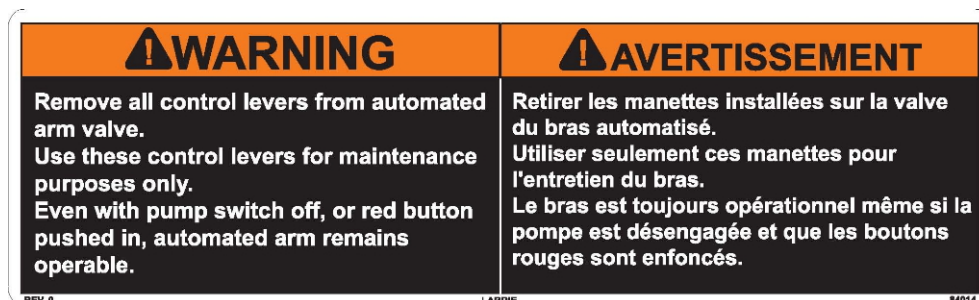
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84456 = English/French  
84457 = English/Spanish



79818 = English/French  
84304 = English/Spanish

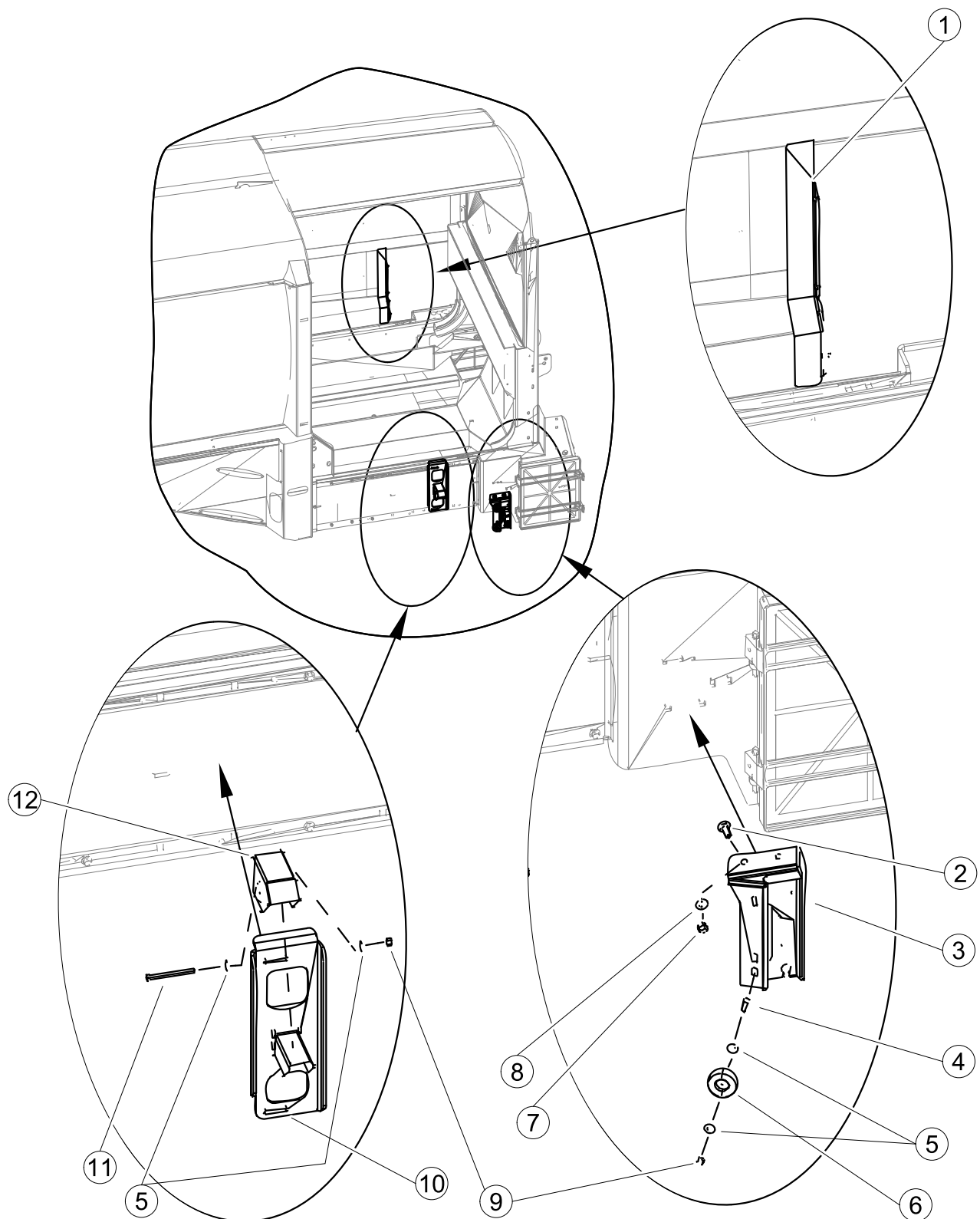


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84015 = English/Spanish

## SECTION 1

# MOUNTING BRACKETS

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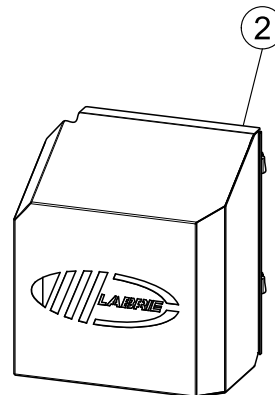
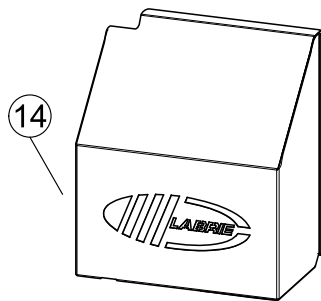
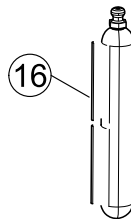
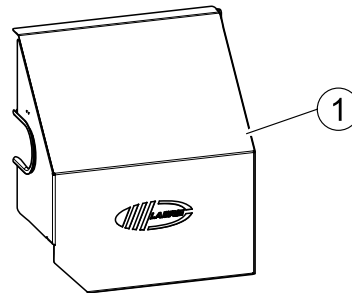
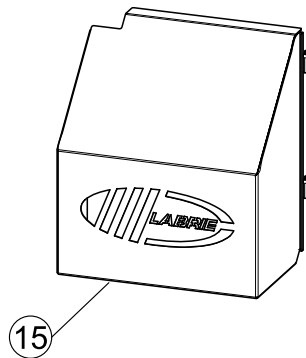
## MOUNTING BRACKETS

| REF. NO. | PART NO. | DESCRIPTION                        | QTY. |
|----------|----------|------------------------------------|------|
| 1        | 82355    | DEFLECTOR, Std. Helping Hand       | 1    |
|          | 82691    | DEFLECTOR, Long Reach Helping Hand | 1    |
| 2        | QUB12050 | BOLT                               | 2    |
| 3        | 82052    | BRACKET                            | 1    |
| 4        | QUB03500 | BOLT                               | 2    |
| 5        | QUR01900 | WASHER                             | 8    |
| 6        | QUB00075 | BUMPER                             | 2    |
| 7        | QUE01500 | WASHER                             | 2    |
| 8        | QUR01905 | WASHER                             | 2    |
| 9        | QUE01300 | NUT                                | 4    |
| 10       | 69567    | BRACKET                            | 1    |
| 11       | QUB04050 | BOLT                               | 2    |
| 12       | 69575    | BRACKET, Arm Rest                  | 1    |

## SECTION 1

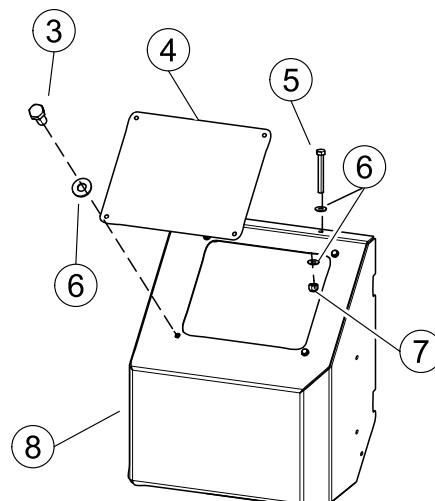
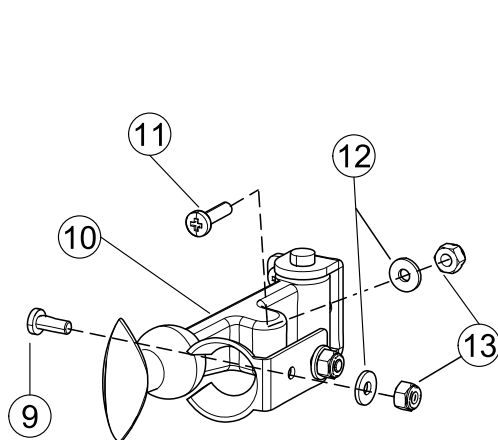
# VALVE COVERS

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Used on Long Reach Models

Used on Long Reach Models



Used on Dual Arm Units

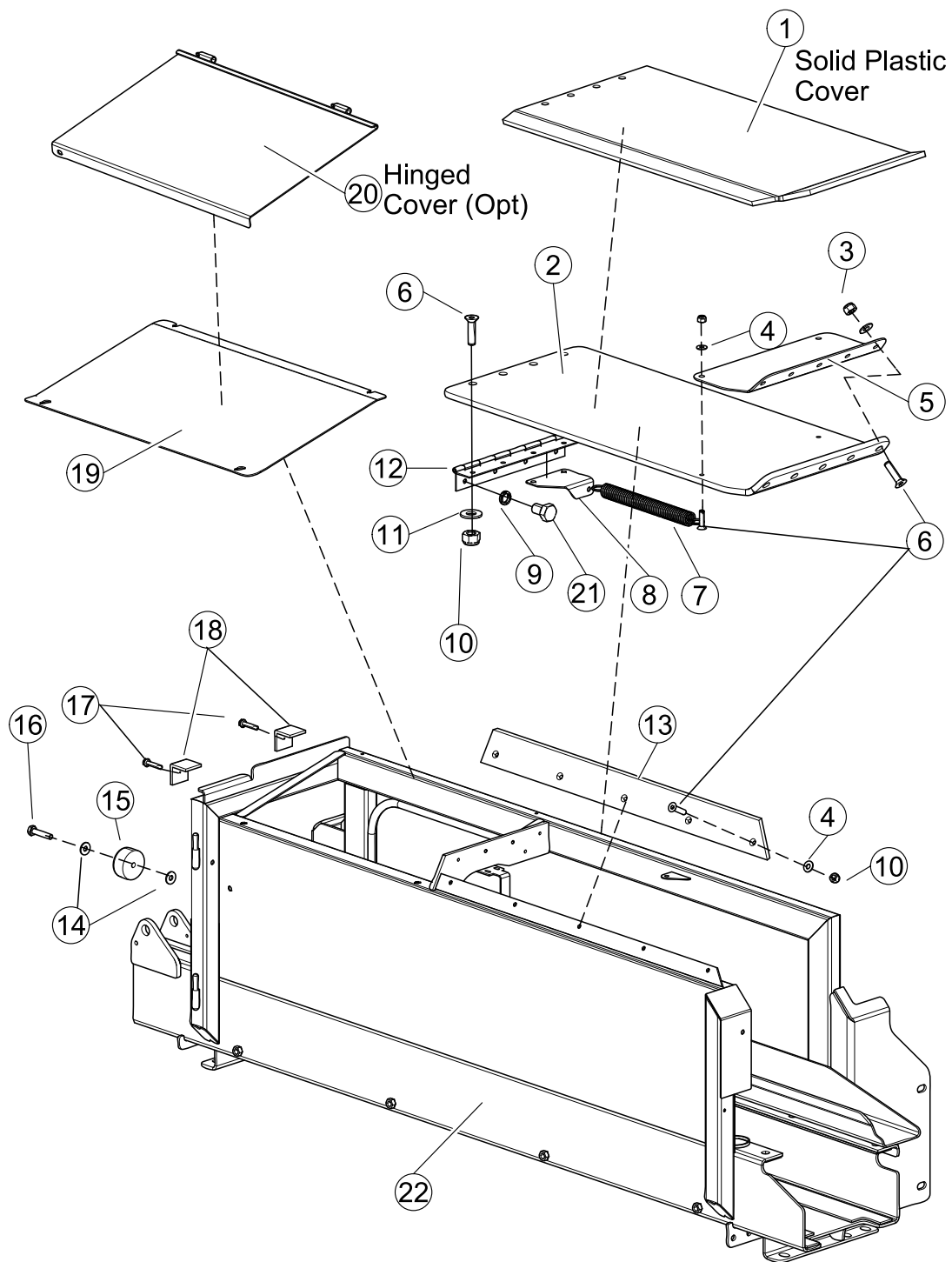
**SECTION 1**  
**VALVE COVERS**

| REF. NO. | PART NO. | DESCRIPTION                     | QTY. |
|----------|----------|---------------------------------|------|
| 1        | 64584    | COVER, Valve, Slot on side      | 1    |
| 2        | 158647   | COVER, Valve - Long Reach Units | 1    |
| 3        | QUB03360 | BOLT                            | 4    |
| 4        | 82388    | COVER, Access                   | 1    |
| 5        | QUB04005 | BOLT                            | A/R  |
| 6        | QUR01902 | WASHER                          | A/R  |
| 7        | QUE01302 | NUT                             | 2    |
| 8        | 88899    | COVER, Valve - Dual arm Units   | 1    |
| 9        | QUV00715 | BOLT                            | 2    |
| 10       | QUP01450 | HOLD Down Assy. - Rubber        | 1    |
| 11       | QUV00740 | BOLT                            | 2    |
| 12       | QUR01600 | WASHER                          | 4    |
| 13       | QUE01070 | NUT                             | 4    |
| 14       | 143071   | COVER, Valve - Long Reach Units | 1    |
| 15       | 77500    | COVER, Valve                    | 1    |
| 16       | QUP01905 | HINGE Assembly                  | A/R  |

## SECTION 1

# ARM BASE

---

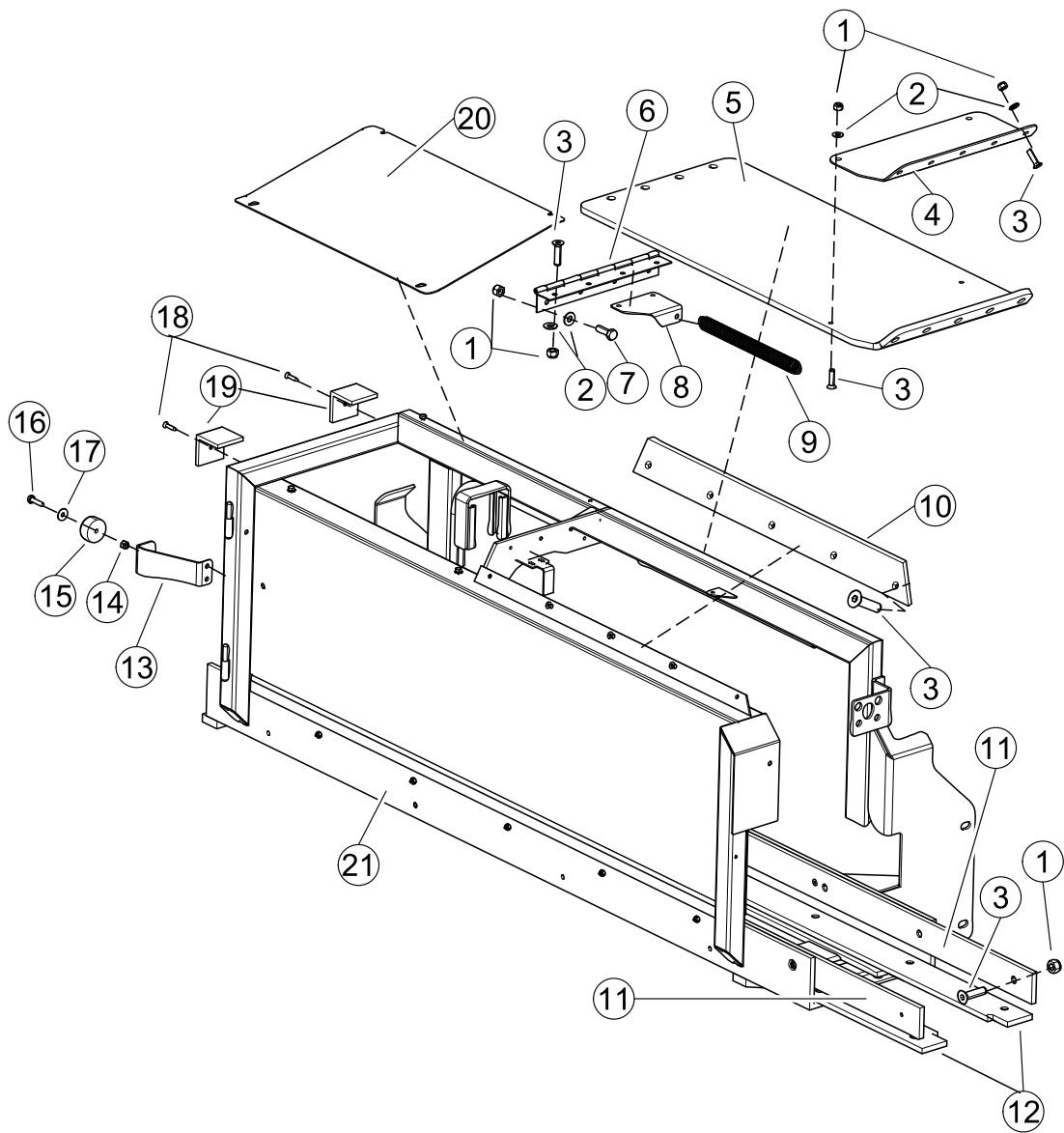


**SECTION 1**  
**ARM BASE**

| REF. NO. | PART NO. | DESCRIPTION                                                                             | QTY. |
|----------|----------|-----------------------------------------------------------------------------------------|------|
| 1        | 64580    | LID, Plastic (Used ON Arm BCB00500-03)                                                  | 1    |
| 2        | 91530    | LID, Plastic, Reinforced Edge                                                           | 1    |
| 3        | QUE01200 | NUT                                                                                     | 7    |
| 4        | QUR01800 | WASHER                                                                                  | 12   |
| 5        | 90531    | BRACKET, Reinforcement                                                                  | 1    |
| 6        | QUB02917 | BOLT                                                                                    | 12   |
| 7        | 67902    | SPRING                                                                                  | 1    |
| 8        | 64581    | BRACKET                                                                                 | 1    |
| 9        | QUR01270 | WASHER                                                                                  | 8    |
| 10       | QUE01205 | NUT                                                                                     | 9    |
| 11       | QUR01800 | WASHER                                                                                  | 8    |
| 12       | 64587    | HINGE                                                                                   | 1    |
| 13       | 64582    | SUPPORT - Plastic                                                                       | 1    |
| 14       | QUR01695 | WASHER                                                                                  | 2    |
| 15       | QUB01300 | BUMPER, Rubber                                                                          | 1    |
| 16       | QUB02160 | BOLT                                                                                    | 1    |
| 17       | QUV08010 | BOLT                                                                                    | 2    |
| 18       | 64585    | STOP - Plastic                                                                          | 2    |
| 19       | 77510    | COVER                                                                                   | 1    |
| 20       | 64599    | COVER - Hinged (Option)                                                                 | 1    |
| 21       | QUB02601 | BOLT                                                                                    | 4    |
| 22       | 64562    | FRAME - (Used on Arms: BCB00500-03)                                                     | 1    |
|          | 67816    | FRAME - (Used on Arms: BCB00500-07, BCB00550-04 & -07)                                  | 1    |
|          | 80525    | FRAME - (Used on Arms: BCB00501-03 & -04)                                               | 1    |
|          | 155706   | FRAME - (Used on Arms: BCB00501-05, -06 & -07 also BCB00515-06 & -07)                   | 1    |
|          | 81172    | FRAME - (Used on Arms: BCB00504-00 & BCB00504-01)                                       | 1    |
|          | 155744   | FRAME - (Used on Arms: BCB00504-02, BCB00511-00, -01 & -02 also BCB00525-01 & -02)      | 1    |
|          | 88201    | FRAME - (Used on Arms: BCB00507-00)                                                     | 1    |
|          | 88481    | FRAME - (Used on Arms: BCB00508-00 & BCB00508-01 also BCB00509-00 & BCB00518-01)        | 1    |
|          | 81926    | FRAME - (Used on Arms: BCB00505-00)                                                     | 1    |
|          | 77504    | FRAME - (Used on Arms: BCB00501-02)                                                     | 1    |
|          | 143043   | FRAME - Long Reach - (Used on Arms BCB00700-02, -04 -05 & -06 & -07; BCB00702-06 & -07) | 1    |
|          | 154027   | FRAME - Long Reach - (Used on Arms BCB00706-01)                                         | 1    |
|          | 83697    | FRAME - Long Reach - (Used on Arms BCB00707-00)                                         | 1    |

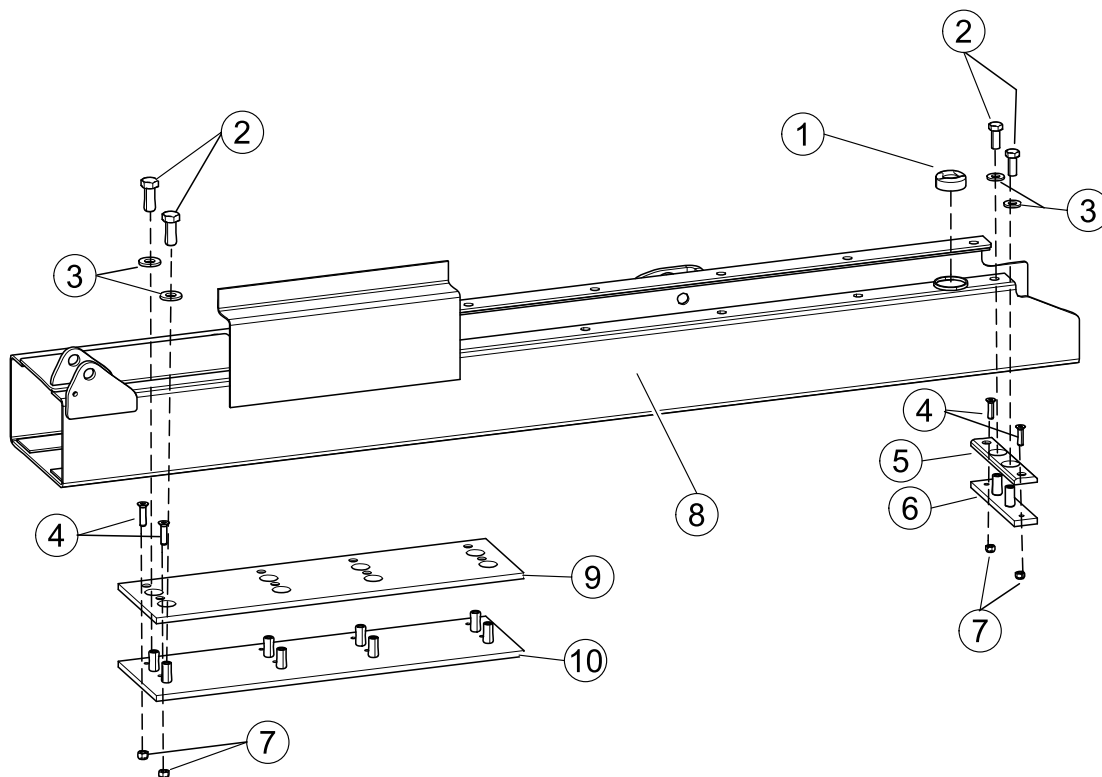
**SECTION 1**

**ARM BASE - LONG REACH** (BCB00700-01 thru BCB00700-07; BCB00702-05 thru -07)



# ARM BASE - LONG REACH (BCB00700-01 thru BCB00700-07; BCB00702-05 thru -07)

| REF. NO. | PART NO. | DESCRIPTION                                                        | QTY. |
|----------|----------|--------------------------------------------------------------------|------|
| 1        | QUE01200 | NUT                                                                | 48   |
| 2        | QUR01800 | WASHER                                                             | 15   |
| 3        | QUB02917 | BOLT                                                               | 48   |
| 4        | 91531    | BRACKET, Reinforcement                                             | 1    |
| 5        | 91530    | COVER, Plastic                                                     | 1    |
| 6        | 64587    | HINGE                                                              | 1    |
| 7        | QUB02800 | BOLT                                                               | 4    |
| 8        | 64581    | BRACKET                                                            | 1    |
| 9        | 67902    | SPRING                                                             | 1    |
| 10       | 64582    | SUPPORT, Plastic                                                   | 1    |
| 11       | 143056   | WEAR STRIP - Plastic                                               | 2    |
| 12       | 143057   | WEAR STRIP - Plastic                                               | 2    |
|          | 85388    | SHIM,.040" - Used With Shoe143056 and 143057                       | A/R  |
|          | 85387    | SHIM,.052" - Used With Shoe143056 and 143057                       | A/R  |
|          | 143109   | SHIM,.064" - Used With Shoe143056 and 143057                       | A/R  |
| 13       | 85293    | BRACKET, Bumper                                                    | 1    |
| 14       | QUE01100 | NUT                                                                | 1    |
| 15       | QUB01300 | BUMPER, Rubber                                                     | 1    |
| 16       | QUB02100 | BOLT                                                               | 1    |
| 17       | QUR01705 | WASHER                                                             | 1    |
| 18       | QUV03132 | BOLT                                                               | 2    |
| 19       | 64585    | STOP - Plastic                                                     | 2    |
| 20       | 77510    | COVER                                                              | 1    |
| 21       | 143043   | FRAME - (Used on Arms: BCB00700-01 Also BCB00706-00 & -01)         | 1    |
|          | 154027   | FRAME - (Used on Arms: BCB00700-02 thru -07; BCB00702-05 thru -07) | 1    |
|          | 83687    | FRAME - (Used on Arms: BCB00707-00 & -01)                          | 1    |

**SECTION 1****ARM MIDDLE EXTENSION - LONG REACH - ALL MODELS**

| REF. NO. | PART NO. | DESCRIPTION               | QTY. |
|----------|----------|---------------------------|------|
| 1        | 143372   | BUMPER, Rubber - Machined | 1    |
| 2        | QUB04411 | BOLT                      | 10   |
| 3        | QUR01912 | WASHER                    | 10   |
| 4        | QUB02917 | BOLT                      | 10   |
| 5        | 143108   | WEAR SHOE - Plastic       | 1    |
| 6        | 143062   | RETAINER, Shoe            | 1    |
| 7        | QUE01200 | NUT                       | 10   |
| 8        | 143051   | FRAME                     | 1    |
| 9        | 143107   | WEAR SHOE - Plastic       | 1    |
| 10       | 143055   | RETAINER, Shoe            | 1    |

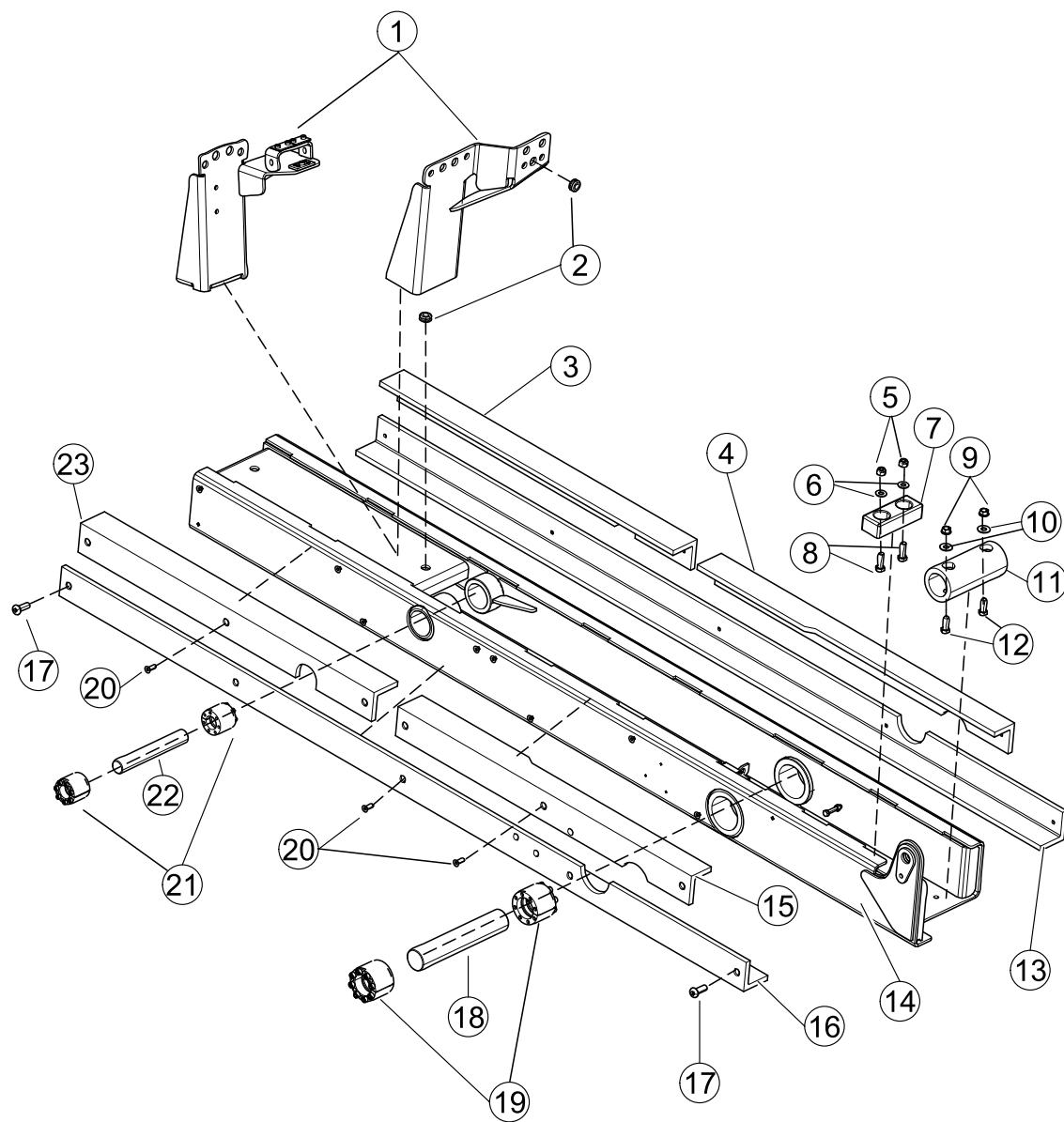




**SECTION 1**

**ARM SLIDE ASSEMBLY**

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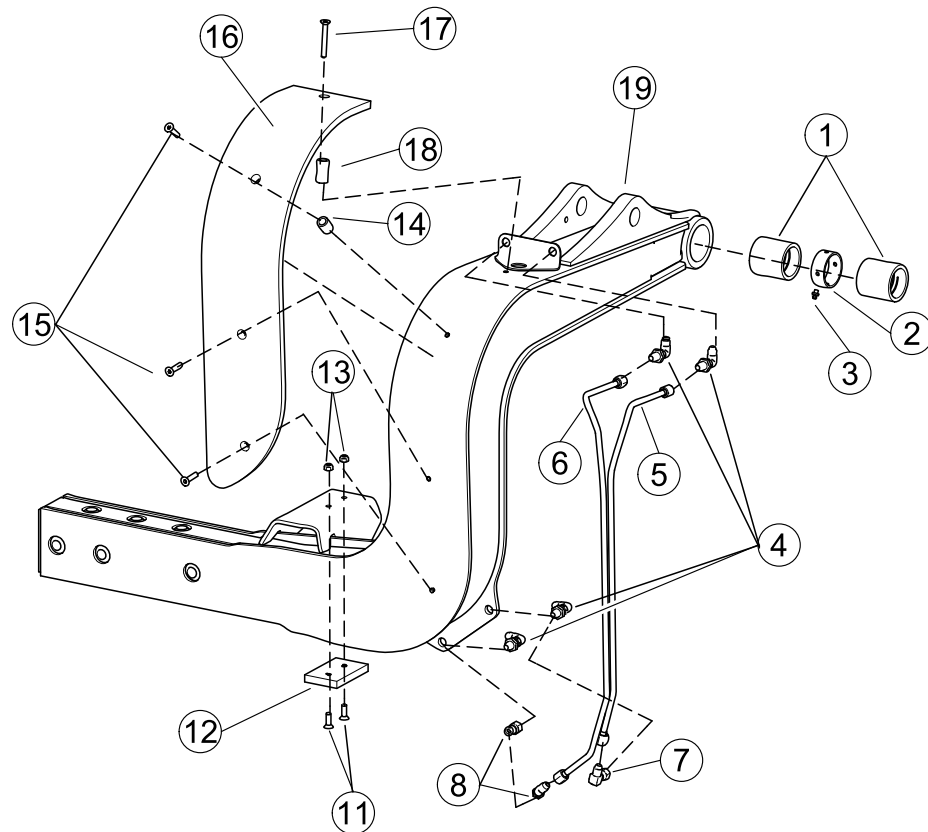
## ARM SLIDE ASSEMBLY

| REF. NO. | PART NO. | DESCRIPTION                                          | QTY. |
|----------|----------|------------------------------------------------------|------|
| 1        | 64528    | BRACKET, Hose Connection - Bulkhead Style            | 1    |
|          | 155712   | BRACKET, Hose Connection - Clamp Style               | 1    |
| 2        | QUG01500 | GROMMET                                              | 2    |
| 3        | 64540    | WEAR SHOE - Plastic                                  | 1    |
| 4        | 64541    | WEAR SHOE - Plastic                                  | 1    |
| 5        | QUE01200 | NUT                                                  | 2    |
| 6        | QUR01800 | WASHER                                               | 2    |
| 7        | QUC00030 | BUMPER                                               | 1    |
| 8        | QUB02800 | BOLT                                                 | 2    |
| 9        | QUE01995 | NUT                                                  | 2    |
| 10       | QUR01900 | WASHER                                               | 2    |
| 11       | QUC00055 | BUMPER                                               | 1    |
| 12       | QUB03400 | BOLT                                                 | 2    |
| 13       | 64539    | WEAR SHOE - Plastic                                  | 1    |
| 14       | 64525    | HOUSING                                              | 1    |
| 15       | 64550    | WEAR SHOE - Plastic                                  | 1    |
| 16       | 64551    | WEAR SHOE - Plastic                                  | 1    |
| 17       | QUV02607 | BOLT                                                 | 16   |
| 18       | 64507    | SHAFT                                                | 1    |
| 19       | QUB00498 | COLLAR, Shaft                                        | 2    |
| 20       | QUB05504 | BOLT                                                 | 6    |
| 21       | QUG00495 | COLLAR, Shaft                                        | 2    |
| 22       | 64504    | SHAFT                                                | 1    |
| 23       | 64549    | WEAR SHOE - Plastic                                  | 1    |
|          | 85290    | SHIM .040" Used on shoes 64540, 64541, 64549 & 64550 | A/R  |
|          | 85289    | SHIM .064" Used on shoes 64540, 64541, 64549 & 64550 | A/R  |

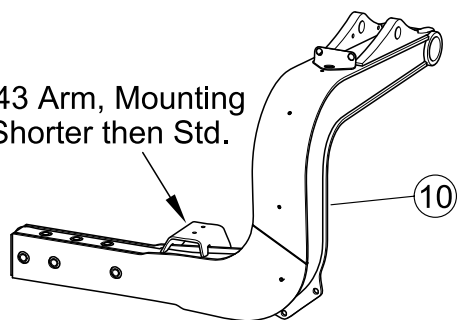
## SECTION 1

# ARM ASSEMBLYS

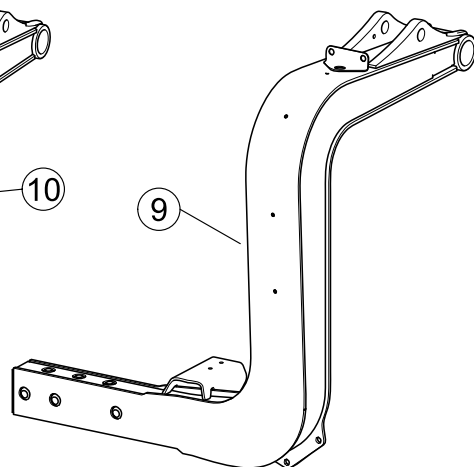
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163043 Arm, Mounting  
Pad Shorter than Std.



154370 Longer Arm  
Drop Then Std.

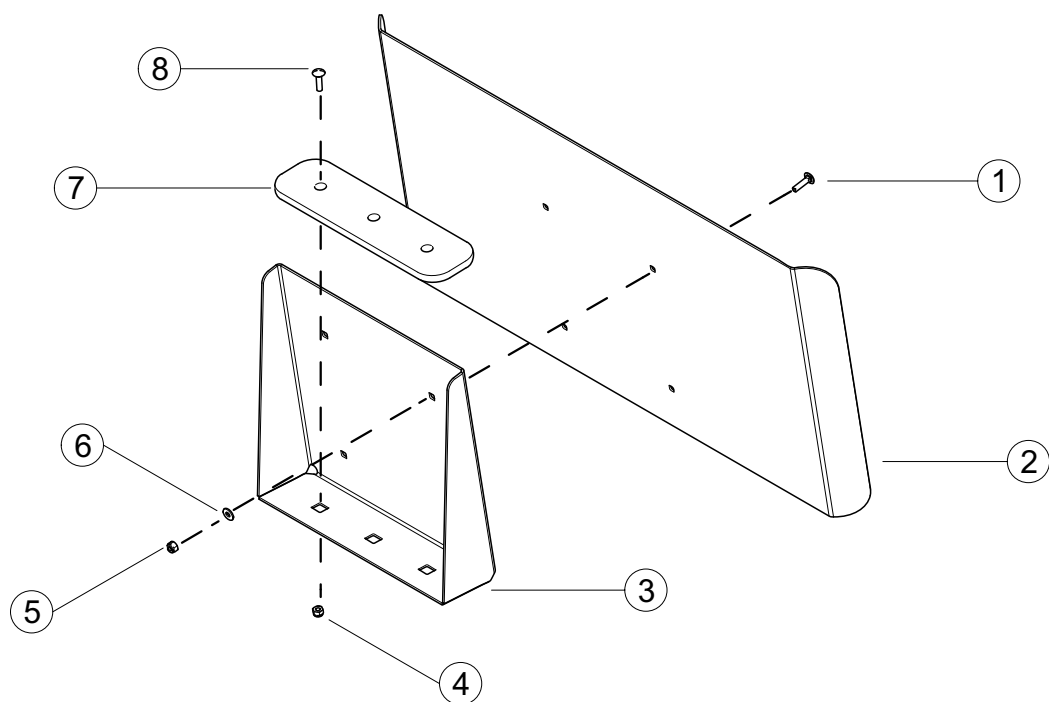


**SECTION 1**
**ARM ASSEMBLYS**

| REF. NO.                                                                                                                                                                                                                                                                                                                                                                                | PART NO. | DESCRIPTION                                                                              | QTY. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|------|
| 1                                                                                                                                                                                                                                                                                                                                                                                       | 174178   | BUSHINGS (Note: After Installation Bushing Must Be Reamed to I.D.<br>2.002+ .002/- .000) | 2    |
| 2                                                                                                                                                                                                                                                                                                                                                                                       | 67826    | SPACER, Bushing                                                                          | 1    |
| 3                                                                                                                                                                                                                                                                                                                                                                                       | QUG00500 | FITTING, Grease                                                                          | 1    |
| 4                                                                                                                                                                                                                                                                                                                                                                                       | HYF06790 | ELBOW, Bulkhead - JIC                                                                    | 4    |
|                                                                                                                                                                                                                                                                                                                                                                                         | HYF06791 | ELBOW, Bulkhead - ORFS                                                                   | 4    |
| 5                                                                                                                                                                                                                                                                                                                                                                                       | 81159    | TUBE - JIC                                                                               | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 88260    | TUBE - ORFS                                                                              | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 154377   | TUBE - ORFS - (Arm 154370 (BCB00509-00) Only)                                            | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 67845    | TUBE - JIC (Used On Arms: BCB00550-03 & BCB00550-04)                                     | 1    |
| 6                                                                                                                                                                                                                                                                                                                                                                                       | 81158    | TUBE - JIC                                                                               | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 88259    | TUBE - ORFS                                                                              | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 154376   | TUBE - ORFS - (Arm 154370 (BCB00509-00 Only)                                             | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 67846    | TUBE - JIC (Used On Arms: BCB00550-03 & -04)                                             | 1    |
| 7                                                                                                                                                                                                                                                                                                                                                                                       | HYF07950 | ELBOW - JIC                                                                              | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | HYF07415 | ELBOW - ORFS                                                                             | 1    |
| 8                                                                                                                                                                                                                                                                                                                                                                                       | HYF07840 | ELBOW - JIC - 45°                                                                        | 2    |
|                                                                                                                                                                                                                                                                                                                                                                                         | HYF07841 | ELBOW - ORFS - 45°                                                                       | 2    |
| 9                                                                                                                                                                                                                                                                                                                                                                                       | 154370   | WELDMENT, Arm - (Arm BCB00509-00 Only                                                    | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 154378   | ASSY., Arm-(Arm 154370 W/Bushings Item #1 & Spacer Item #2)                              | 1    |
| 10                                                                                                                                                                                                                                                                                                                                                                                      | 163043   | WELDMENT, Arm-(Arm BCB00525-01 & -02 Also BCB00511-01 & -02)                             | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 174184   | ASSY., Arm-(Arm 163043 W/Bushings Item #1 & Spacer Item #2)                              | 1    |
| 11                                                                                                                                                                                                                                                                                                                                                                                      | QUB05504 | BOLT                                                                                     | 2    |
| 12                                                                                                                                                                                                                                                                                                                                                                                      | 64524    | PAD - Plastic                                                                            | 1    |
| 13                                                                                                                                                                                                                                                                                                                                                                                      | QUE01200 | NUT                                                                                      | 2    |
| 14                                                                                                                                                                                                                                                                                                                                                                                      | 81156    | SPACER - 1" Lg.                                                                          | 1    |
| 15                                                                                                                                                                                                                                                                                                                                                                                      | QUB03005 | BOLT                                                                                     | 3    |
| 16                                                                                                                                                                                                                                                                                                                                                                                      | 81160    | GUARD - Plastic                                                                          | 1    |
| 17                                                                                                                                                                                                                                                                                                                                                                                      | QUB03218 | BOLT                                                                                     | 1    |
| 18                                                                                                                                                                                                                                                                                                                                                                                      | 64590    | SPACER - 1½" Lg.                                                                         | 1    |
| 19                                                                                                                                                                                                                                                                                                                                                                                      | 85446    | WELDMENT, Arm                                                                            | 1    |
|                                                                                                                                                                                                                                                                                                                                                                                         | 157973   | ASSY., Arm - W/Bushings Item #1 & Spacer Item #2)                                        | 1    |
| Note: Item #19 P/N85446 or P/N157973 are used on the following Arm assembly's:<br>BCB00500-03, -04 & -07, BCB00501-00, -04, -05, -06 & -07, BCB00503-01,<br>BCB00504-01, BCB00505-00, BCB00507-00, BCB00508-00 & -01,<br>BCB00511-01 & -02, BCB00515-06 & -07, BCB00518-01, BCB00550-03, -04 & -07,<br>BCB00700-01, -02, -04, -05 & -06, BCB00702-05 & -06, BCB00706-01,<br>BCB00707-01 |          |                                                                                          |      |

**SECTION 1**

**DEFLECTOR**



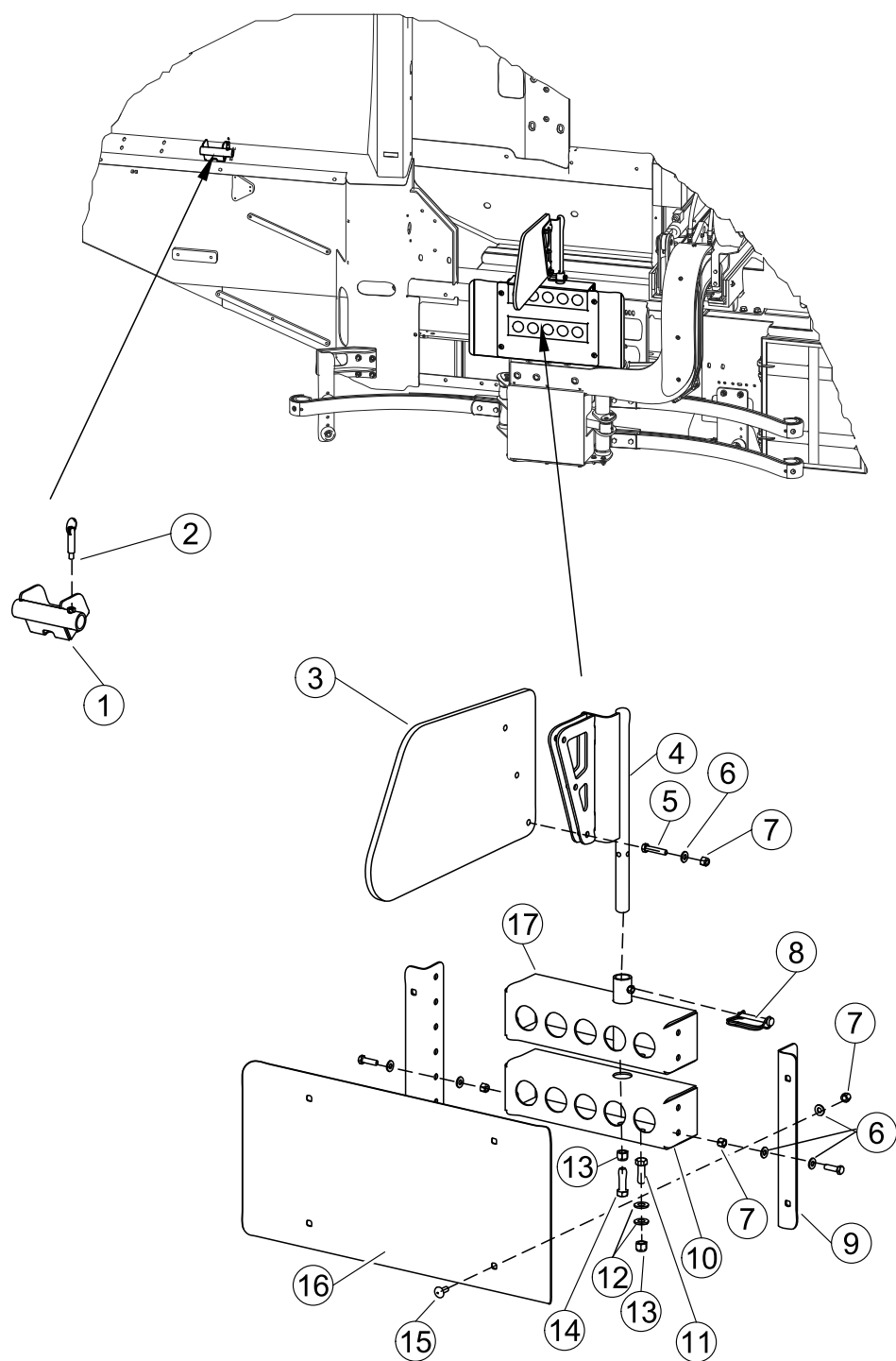
| REF. NO. | PART NO. | DESCRIPTION      | QTY. |
|----------|----------|------------------|------|
| 1        | QUB00870 | BOLT             | 4    |
| 2        | 93751    | PLATE, Deflector | 1    |
| 3        | 93750    | BRACKET          | 1    |
| 4        | QUE02000 | NUT              | 3    |
| 5        | QUE01100 | NUT              | 4    |
| 6        | QUR01700 | WASHER           | 4    |
| 7        | 64619    | PLATE, Backing   | 1    |
| 8        | QUB12050 | BOLT             | 3    |



**SECTION 1**

**SPLIT CART, DEFLECTOR & DIVIDER**

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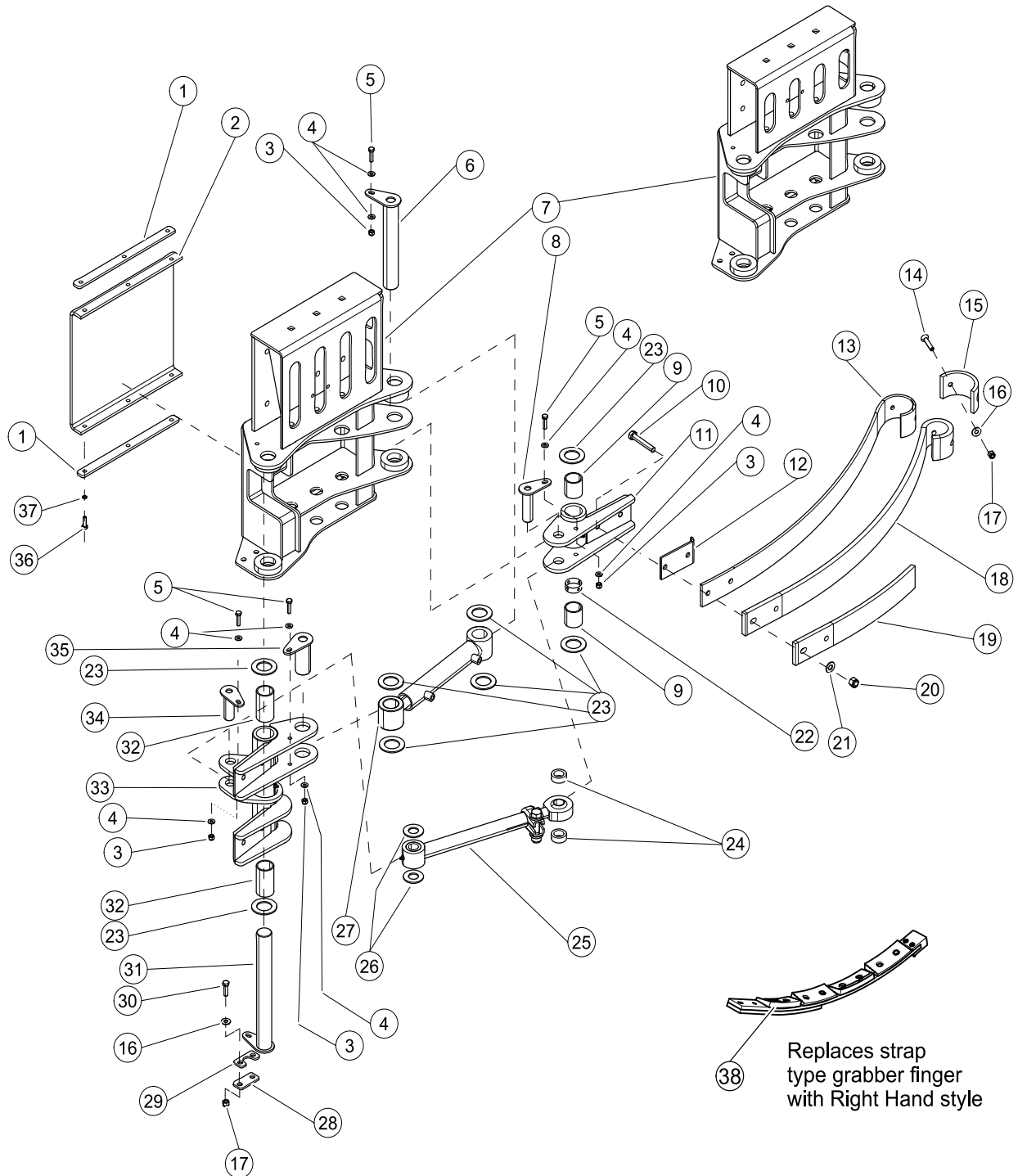


**SPLIT CART, DEFLECTOR & DIVIDER**

| REF. NO. | PART NO. | DESCRIPTION                | QTY. |
|----------|----------|----------------------------|------|
| 1        | 163627   | BRACKET, Storage           | 1    |
| 2        | QUP10000 | PIN                        | 1    |
| 3        | 163626   | DIVIDER, Plastic           | 1    |
| 4        | 163712   | BRACKET, Divider Pivot     | 1    |
| 5        | QUB03730 | BOLT                       | 3    |
| 6        | QUR01902 | WASHER                     | 23   |
| 7        | QUE01302 | NUT                        | 12   |
| 8        | QUP02408 | PIN, Retainer              | 1    |
| 9        | 163624   | BRACKET, Mounting          | 2    |
| 10       | 163622   | BRACKET, Separator - Lower | 1    |
| 11       | QUE04503 | BOLT                       | 3    |
| 12       | QUR01912 | WASHER                     | 6    |
| 13       | QUE01500 | NUT                        | 4    |
| 14       | QUB04601 | BOLT                       | 1    |
| 15       | QUB11935 | BOLT, Carriage             | 4    |
| 16       | 163625   | DEFLECTOR                  | 1    |
| 17       | 163623   | BRACKET, Separator - Upper | 1    |

## SECTION 2

# GRABBER ASSEMBLY



## GRABBER ASSEMBLY

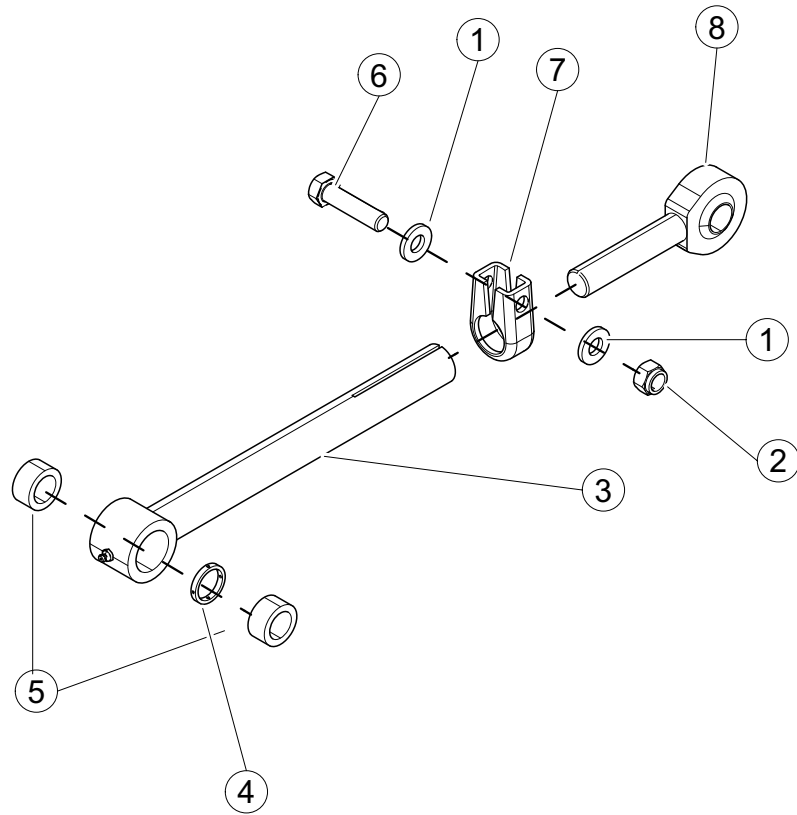
| REF. NO.      | PART NO. | DESCRIPTION                                                                                                                                                                                                                                                                                          | QTY. |
|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1             | 64643    | PLATE                                                                                                                                                                                                                                                                                                | 2    |
| 2             | 64642    | BUMPER                                                                                                                                                                                                                                                                                               | 1    |
| 3             | QUE01200 | BOLT                                                                                                                                                                                                                                                                                                 | 4    |
| 4             | QUR01800 | WASHER                                                                                                                                                                                                                                                                                               | 8    |
| 5             | QUB02900 | BOLT                                                                                                                                                                                                                                                                                                 | 4    |
| 6             | 64684    | PIN                                                                                                                                                                                                                                                                                                  | 1    |
| 7             | 67829    | WELDMENT, Grabber Assembly (Used on the Following<br>Arms:BCB00499-00, BCB00500-04 & -07, BCB00501-00 & -01, BCB 00550-04 & -07)                                                                                                                                                                     | 1    |
|               | 88216    | WELDMENT, Grabber Assembly (Used on the Following<br>Arms: BCB00507-00, BCB00508-00 & -01, BCB00518-01)                                                                                                                                                                                              | 1    |
|               | 166769   | WELDMENT, Grabber Assembly (Used on the Following Arm:<br>BCB00525-02 & -03; BCB00511-02 & -03)                                                                                                                                                                                                      | 1    |
|               | 80125    | WELDMENT, Grabber Assembly (Used on the Following<br>Arms: BCB00501-02, -03, -04, -05, -06 & -07, BCB00503-00 & -01, BCB00504-00 & -01 & -02, BCB00505-00, BCB00509-00, BCB00515-06, -07 & -08, BCB00700-01, -02, -04, -05, -06 & -07, BCB00702-05, -06 & -07, BCB00706-00 & -01, BCB00707-00 & -01) | 1    |
| 8             | 64688    | PIN                                                                                                                                                                                                                                                                                                  | 1    |
| 9             | QUB00481 | BUSHING                                                                                                                                                                                                                                                                                              | 6    |
| 10            | QUB04828 | BOLT                                                                                                                                                                                                                                                                                                 | 6    |
| 11            | 64625    | PIVOT                                                                                                                                                                                                                                                                                                | 1    |
|               | 64611    | ASSEMBLY, Pivot (Includes Items 9, 11 & 22)                                                                                                                                                                                                                                                          | 1    |
| 12            | 75262    | PLATE, Retainer                                                                                                                                                                                                                                                                                      | 3    |
| 13            | 64638    | STRAP, Rubber - OAL = 41.44" (Used With #64634 & 160174)                                                                                                                                                                                                                                             | 3    |
|               | 165521   | STRAP, Rubber - OAL = 40.75" (Used With #165520 & 165519)                                                                                                                                                                                                                                            | 3    |
| 14            | QUV02723 | BOLT                                                                                                                                                                                                                                                                                                 | 6    |
| 15            | 64635    | END, Grabber Arm                                                                                                                                                                                                                                                                                     | 3    |
| 16            | QUR01900 | WASHER                                                                                                                                                                                                                                                                                               | 8    |
| 17            | QUE01300 | NUT                                                                                                                                                                                                                                                                                                  | 8    |
| 18            | 64634    | ARM, Grabber - Large Radius                                                                                                                                                                                                                                                                          | 3    |
|               | 165520   | ARM, Grabber - Smaller Radius                                                                                                                                                                                                                                                                        | 3    |
| 19            | 64636    | SUPPORT, Grabber Arm - (Used With #64634 & 160174)                                                                                                                                                                                                                                                   | 3    |
|               | 165529   | SUPPORT, Grabber Arm - (Used With #165520 & 165519)                                                                                                                                                                                                                                                  | 3    |
| 20            | QUE01500 | NUT                                                                                                                                                                                                                                                                                                  | 6    |
| 21            | QUR01905 | WASHER                                                                                                                                                                                                                                                                                               | 6    |
| 22            | 67855    | SPACER, Bearing                                                                                                                                                                                                                                                                                      | 1    |
| 23            | QUB00459 | THRUST BEARING                                                                                                                                                                                                                                                                                       | 8    |
| 24            | 64601    | SPACER                                                                                                                                                                                                                                                                                               | 2    |
| 25            | 64612    | ASSEMBLY, Linkage                                                                                                                                                                                                                                                                                    | 1    |
| 26            | QUB00457 | THRUST BEARING                                                                                                                                                                                                                                                                                       | 2    |
| SEE NEXT PAGE |          |                                                                                                                                                                                                                                                                                                      |      |

**SECTION 2**

# GRIPPER ASSEMBLY

| REF. NO. | PART NO.    | DESCRIPTION                                                                                                                                                                                                                                                                                                             | QTY. |
|----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 27       | HYC00166-01 | CYLINDER, Grabber - (Used on the Following Arms: BCB00501-02, -03, -04 & -05, BCB00503-00 & -01, BCB00504-00, -01 & -02, BCB00505-00, BCB00507-00, BCB00508-00, BCB00511-00 & -01, BCB00515-06, BCB00525-01, BCB00550-07, BCB00700-01, -02 -04 & -05, BCB00702-05, BCB00706-01, BCB00707-00, BCB01115-00, BCB01116-00.) | 1    |
|          | HYC00235    | CYLINDER, Grabber - With Integrated Holding Valve - (Used on the Following Arms: BCB00501-07, BCB00508-01, BCB00515-07, BCB00518-01, BCB00700-06 & -07, BCB00702-06 & -07; BCB00701-01;BCB00735-00)                                                                                                                     | 1    |
| 28       | 64645       | RETAINER                                                                                                                                                                                                                                                                                                                | 1    |
| 29       | 64644       | RETAINER                                                                                                                                                                                                                                                                                                                | 1    |
| 30       | QUB03500    | BOLT                                                                                                                                                                                                                                                                                                                    | 2    |
| 31       | 64682       | PIN                                                                                                                                                                                                                                                                                                                     | 1    |
| 32       | QUB00482    | BUSHING                                                                                                                                                                                                                                                                                                                 | 2    |
| 33       | 64626       | PIVOT                                                                                                                                                                                                                                                                                                                   | 1    |
|          | 64610       | ASSEMBLY, Pivot (Includes Items 32 & 33)                                                                                                                                                                                                                                                                                | 1    |
| 34       | 64686       | PIN                                                                                                                                                                                                                                                                                                                     | 1    |
| 35       | 64690       | PIN                                                                                                                                                                                                                                                                                                                     | 1    |
| 36       | QUB02800    | BOLT                                                                                                                                                                                                                                                                                                                    | 6    |
| 37       | QUR01270    | WASHER                                                                                                                                                                                                                                                                                                                  | 6    |
| 38       | 163060      | GRABBER ASSEMBLY - Right Hand Style - 34¾"                                                                                                                                                                                                                                                                              |      |
|          | 89405       | GRABBER ASSEMBLY - Right Hand Style - 40½"                                                                                                                                                                                                                                                                              |      |
|          | 80124       | GRABBER ASSEMBLY - Helping Hand Style used on arms: BCB00501-02 thru -04; BCB00503-00 & -01; BCB00504-00 & -01; BCB00505-00; BCB00700-01 & -02; BCB00706-01                                                                                                                                                             |      |
|          | 168947      | GRABBER ASSEMBLY - Helping Hand Style used on arms: BCB00501-07 & -08; BCB00515-07 & -08; BCB00519-00 & -01; BCB00700-06 & -07; BCB00702-06 & -07; BCB00707-01                                                                                                                                                          |      |

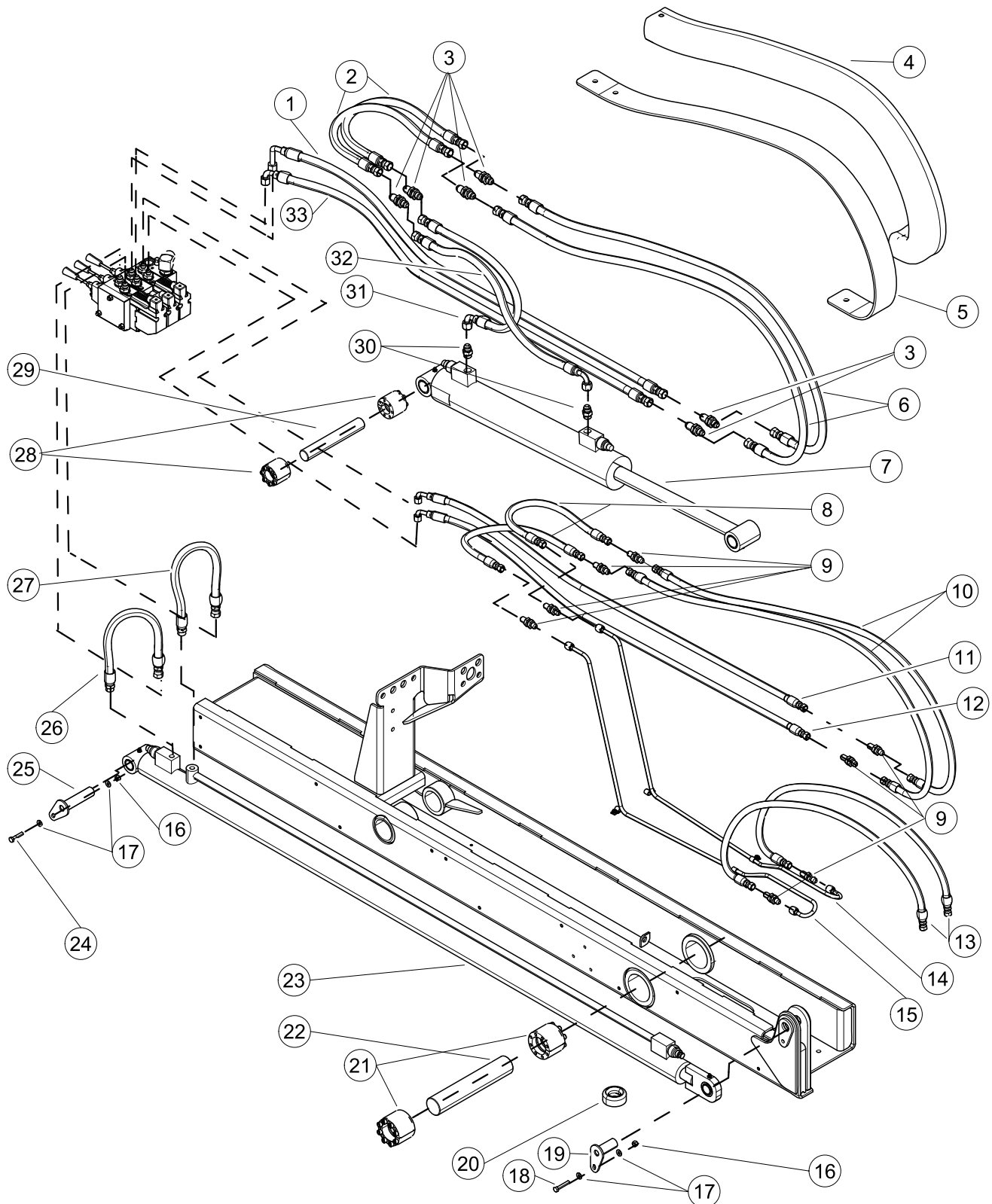
## GRIPPER LINK ARM



| REF. NO. | PART NO. | DESCRIPTION   | QTY. |
|----------|----------|---------------|------|
| 1        | QUR02130 | WASHER        | 2    |
| 2        | QUE00880 | NUT           | 1    |
| 3        | 64613    | TUBE, Linkage | 1    |
| 4        | 67856    | SPACER        | 1    |
| 5        | 64544    | BUSHING       | 2    |
| 6        | QUB05325 | BOLT          | 1    |
| 7        | QUC09950 | CLAMP         | 1    |
| 8        | QUT00200 | ROD END       | 1    |

## SECTION 3

# ARM HYDRAULICS - BCB00501-00 Thru -04, BCB00500-00, BCB00503-00, BCB504-00, BCB00504-01

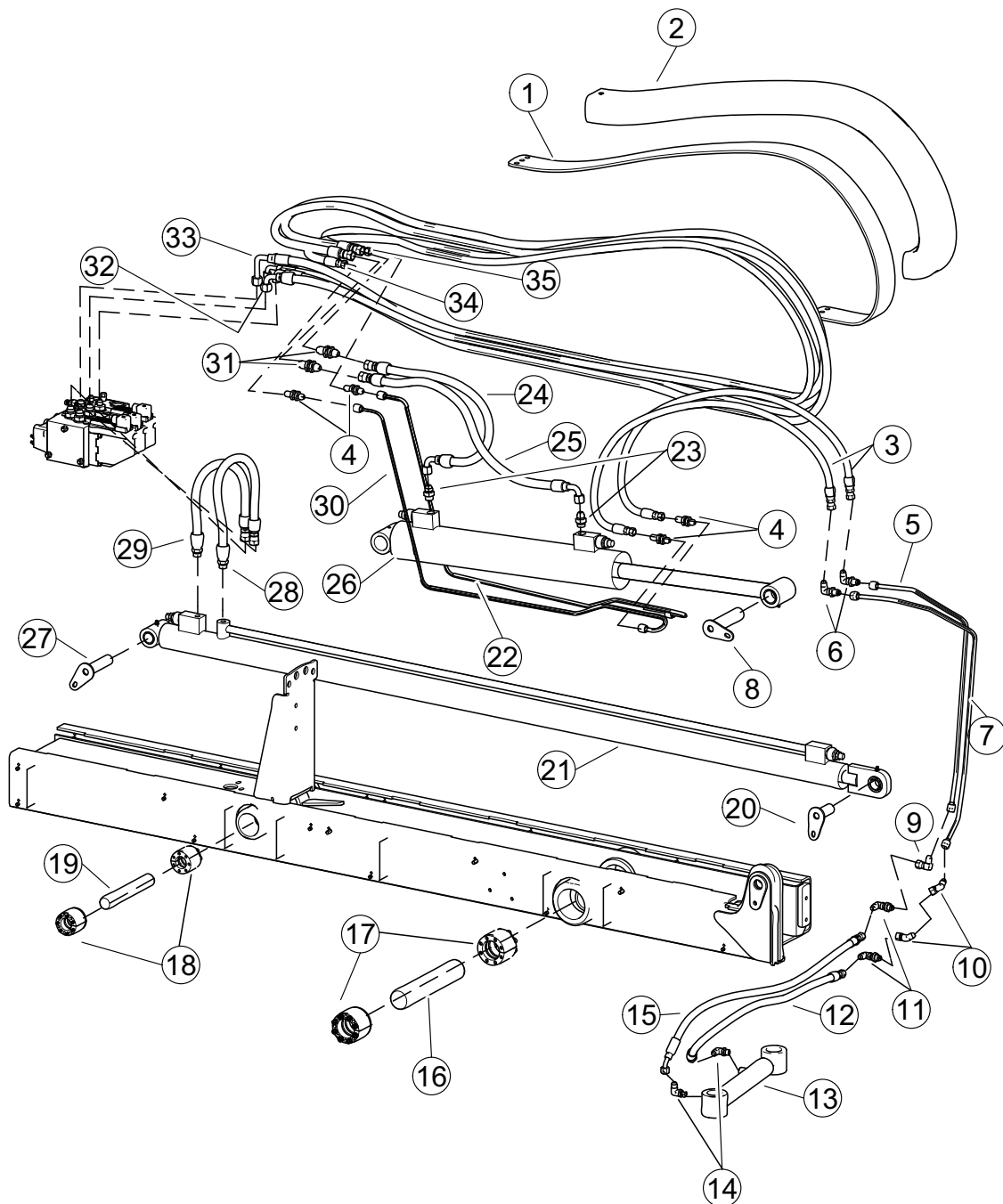


# ARM HYDRAULICS - BCB00501-00 Thru -04, BCB00500-00, BCB00503-00, BCB504-00, BCB00504-01

| REF. NO. | PART NO. | DESCRIPTION                                              | QTY.        |
|----------|----------|----------------------------------------------------------|-------------|
| 1        | 64664    | HOSE                                                     | 1           |
| 2        | 64659    | HOSE                                                     | 2           |
| 3        | HYF06500 | CONNECTOR                                                | 6           |
| 4        | HYB03780 | PROTECTOR                                                | PER<br>INCH |
| 5        | 64646    | REINFORCEMENT                                            | 1           |
| 6        | 64561    | HOSE                                                     | 2           |
| 7        | HYC00356 | CYLINDER - 1.25" DIA PINS                                | 1           |
|          | HYC00357 | CYLINDER - 1.00" DIA PINS (BCB00501-00 and Earlier arms) | 1           |
| 8        | 64660    | HOSE                                                     | 2           |
| 9        | HYF06490 | CONNECTOR                                                | 8           |
| 10       | 64603    | HOSE                                                     | 2           |
| 11       | 64662    | HOSE                                                     | 1           |
| 12       | 64661    | HOSE                                                     | 1           |
| 13       | 67809    | HOSE                                                     | 2           |
| 14       | 82114    | TUBE (BCB00501-03 & -04)                                 | 1           |
|          | 64652    | TUBE (BCB00501-00, -01 & -02)                            | 1           |
| 15       | 82113    | TUBE (BCB00501-03 & -04)                                 | 1           |
|          | 64651    | TUBE (BCB00501-0000, -01 & -02)                          | 1           |
| 16       | QUE01200 | NUT                                                      | 3           |
| 17       | QUR01800 | WASHER                                                   | 6           |
| 18       | QUB03051 | BOLT                                                     | 2           |
| 19       | 64509    | PIN                                                      | 1           |
| 20       | QUB00075 | BUMPER                                                   | 1           |
| 21       | QUB00498 | COLLAR, Pin                                              | 2           |
| 22       | 64507    | PIN                                                      | 1           |
| 23       | HYC00191 | CYLINDER                                                 | 1           |
| 24       | QUB03000 | BOLT                                                     | 1           |
| 25       | 64502    | PIN                                                      | 1           |
| 26       | 64655    | HOSE                                                     | 1           |
| 27       | 64655    | HOSE                                                     | 1           |
| 28       | QUB00495 | COLLAR, Pin                                              | 2           |
| 29       | 64504    | PIN                                                      | 1           |
| 30       | HYF05110 | ADAPTER                                                  | 2           |
| 31       | 26506    | HOSE                                                     | 1           |
| 32       | 12546    | HOSE                                                     | 1           |
| 33       | 64663    | HOSE                                                     | 1           |

**SECTION 3**

**ARM HYDRAULICS - BCB00501-05, -06 & -07**





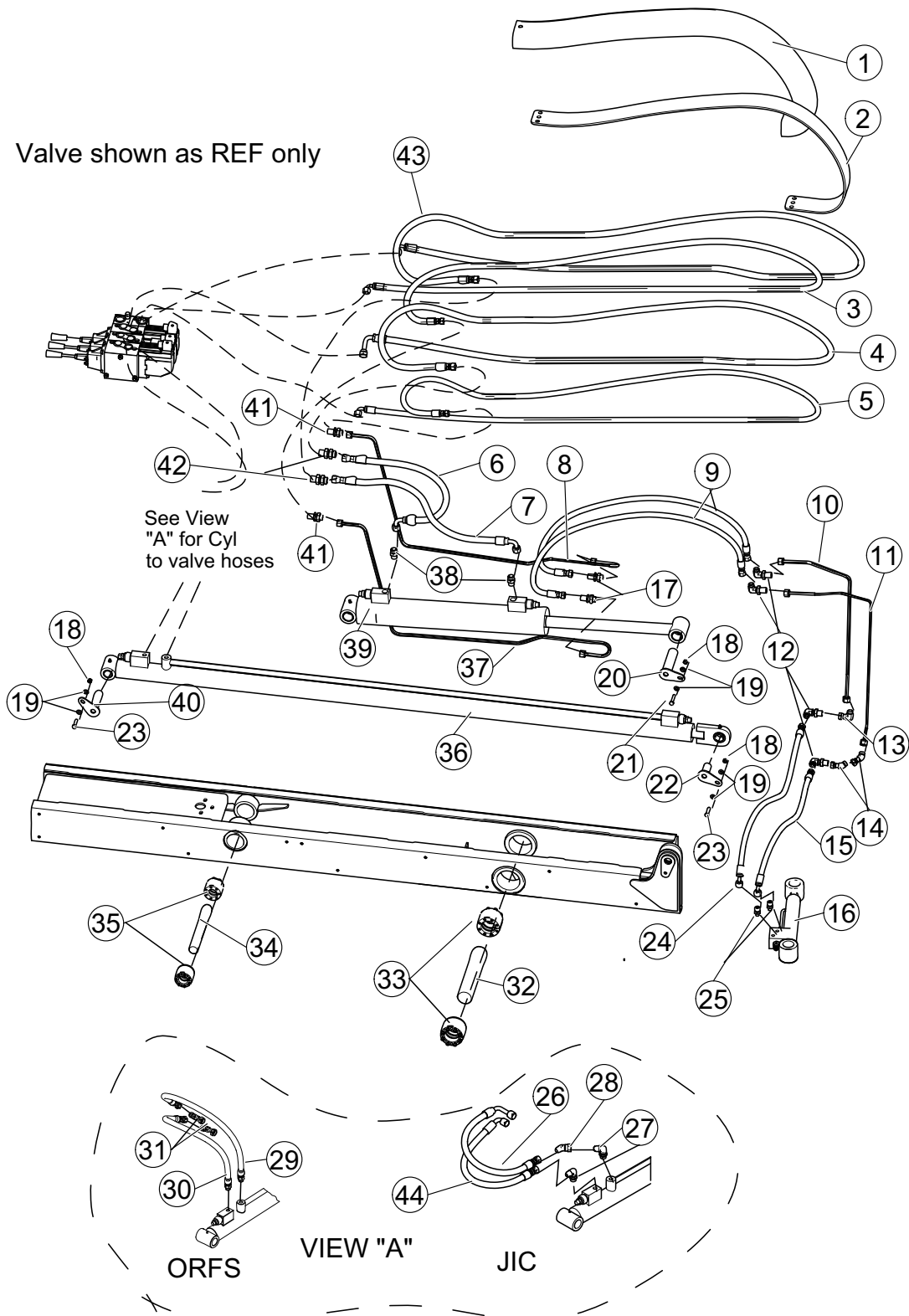
# ARM HYDRAULICS - BCB00501-05, -06 & -07

| REF. NO. | PART NO.    | DESCRIPTION                               | QTY.        |
|----------|-------------|-------------------------------------------|-------------|
| 1        | 155750      | REINFORCEMENT                             | 1           |
| 2        | HYB03780    | PROTECTOR                                 | PER<br>INCH |
| 3        | 67809       | HOSE (BCB00501-05)                        | 1           |
|          | 88235       | HOSE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 4        | HYF06490    | BULKHEAD (BCB00501-05)                    | 4           |
|          | HYF04892    | BULKHEAD (BCB00501-06 & BCB00501-07) ORFS | 4           |
| 5        | 81159       | TUBE (BCB00501-05)                        | 1           |
|          | 88260       | TUBE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 6        | HYF06790    | BULKHEAD (BCB00501-05)                    | 2           |
|          | HYF06791    | BULKHEAD (BCB00501-06 & BCB00501-07)ORFS  | 2           |
| 7        | 81158       | TUBE (BCB00501-05)                        | 1           |
|          | 88259       | TUBE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 8        | 64559       | PIN                                       | 1           |
| 9        | HYF07950    | ELBOW (BCB00501-05)                       | 1           |
|          | HYF07415    | ELBOW (BCB00501-06 & BCB00501-07) ORFS    | 1           |
| 10       | HYF07840    | ELBOW (BCB00501-05)                       | 2           |
|          | HYF07841    | ELBOW (BCB00501-06 & BCB00501-07) ORFS    | 2           |
| 11       | HYF06790    | ELBOW (BCB00501-05)                       | 2           |
|          | HYF06791    | ELBOW (BCB00501-06 & BCB00501-07)ORFS     | 2           |
| 12       | 64557       | HOSE (BCB00501-05)                        | 1           |
|          | 88262       | HOSE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 13       | HYC00166-01 | CYLINDER                                  | 1           |
| 14       | HYF07400    | ELBOW (BCB00501-05)                       | 2           |
|          | HYF07435    | ELBOW (BCB00501-06 & BCB00501-07) ORFS    | 2           |
| 15       | 64560       | HOSE (BCB00501-05)                        | 1           |
|          | 88261       | HOSE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 16       | 64507       | PIN                                       | 1           |
| 17       | QUB00498    | COLLAR, Pin                               | 2           |
| 18       | QUB00495    | COLLAR, Pin                               | 2           |
| 19       | 64504       | PIN                                       | 1           |
| 20       | 64509       | PIN                                       | 1           |
| 21       | HYC00191    | CYLINDER                                  | 1           |
| 22       | 82214       | TUBE (BCB00501-05)                        | 1           |
|          | 88230       | TUBE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
| 23       | HYF05110    | ADAPTER (BCB00501-05)                     | 2           |
|          | HYF05171    | ADAPTER (BCB00501-06 & BCB00501-07)ORFS   | 2           |
| 24       | 26506       | HOSE (BCB00501-05)                        | 1           |
|          | 88232       | HOSE (BCB00501-06 & BCB00501-07) ORFS     | 1           |
|          |             | <b>SEE NEXT PAGE</b>                      |             |

**SECTION 3****ARM HYDRAULICS - BCB00501-05, -06 & -07**

| REF. NO. | PART NO. | DESCRIPTION                                              | QTY. |
|----------|----------|----------------------------------------------------------|------|
| 25       | 12546    | HOSE (BCB00501-05)                                       | 1    |
|          | 88231    | HOSE (BCB00501-06 & BCB00501-07) ORFS                    | 1    |
| 26       | HYC00356 | CYLINDER - 1.25" DIA PINS                                | 1    |
|          | HYC00357 | CYLINDER - 1.00" DIA PINS (BCB00501-00 and Earlier arms) | 1    |
| 27       | 64502    | PIN                                                      | 1    |
| 28       | 64656    | HOSE (BCB00501-05)                                       | 1    |
|          | 88241    | HOSE (BCB00501-06 & BCB00501-07) ORFS                    | 1    |
| 29       | 64655    | HOSE (BCB00501-05)                                       | 1    |
|          | 88240    | HOSE (BCB00501-06 & BCB00501-07) ORFS                    | 1    |
| 30       | 82113    | TUBE (BCB00501-05)                                       | 1    |
|          | 88229    | TUBE (BCB00501-06 & BCB00501-07) ORFS                    | 1    |
| 31       | HYF06500 | BULKHEAD (BCB00501-05)                                   | 2    |
|          | HYF04891 | BULKHEAD (BCB00501-06 & BCB00501-07)                     | 2    |
| 32       | 122919   | HOSE (BCB00501-05)                                       | 1    |
|          | 172118   | HOSE (BCB00501-06 & BCB00501-07)                         | 1    |
| 33       | 155746   | HOSE (BCB00501-05)                                       | 1    |
|          | 172115   | HOSE (BCB00501-06 & BCB00501-07)                         | 1    |
| 34       | 155747   | HOSE (BCB00501-05)                                       | 1    |
|          | 172116   | HOSE (BCB00501-06 & BCB00501-07)                         | 1    |
| 35       | 155747   | HOSE (BCB00501-05)                                       | 1    |
|          | 172117   | HOSE (BCB00501-06 & BCB00501-07)                         | 1    |

# ARM HYDRAULICS - (BCB00501-07 & -08;BCB00515-06 & -07)



**SECTION 3****ARM HYDRAULICS - BCB00501-07 & -08 (ORFS);BCB00515-06 & -07(JIC)**

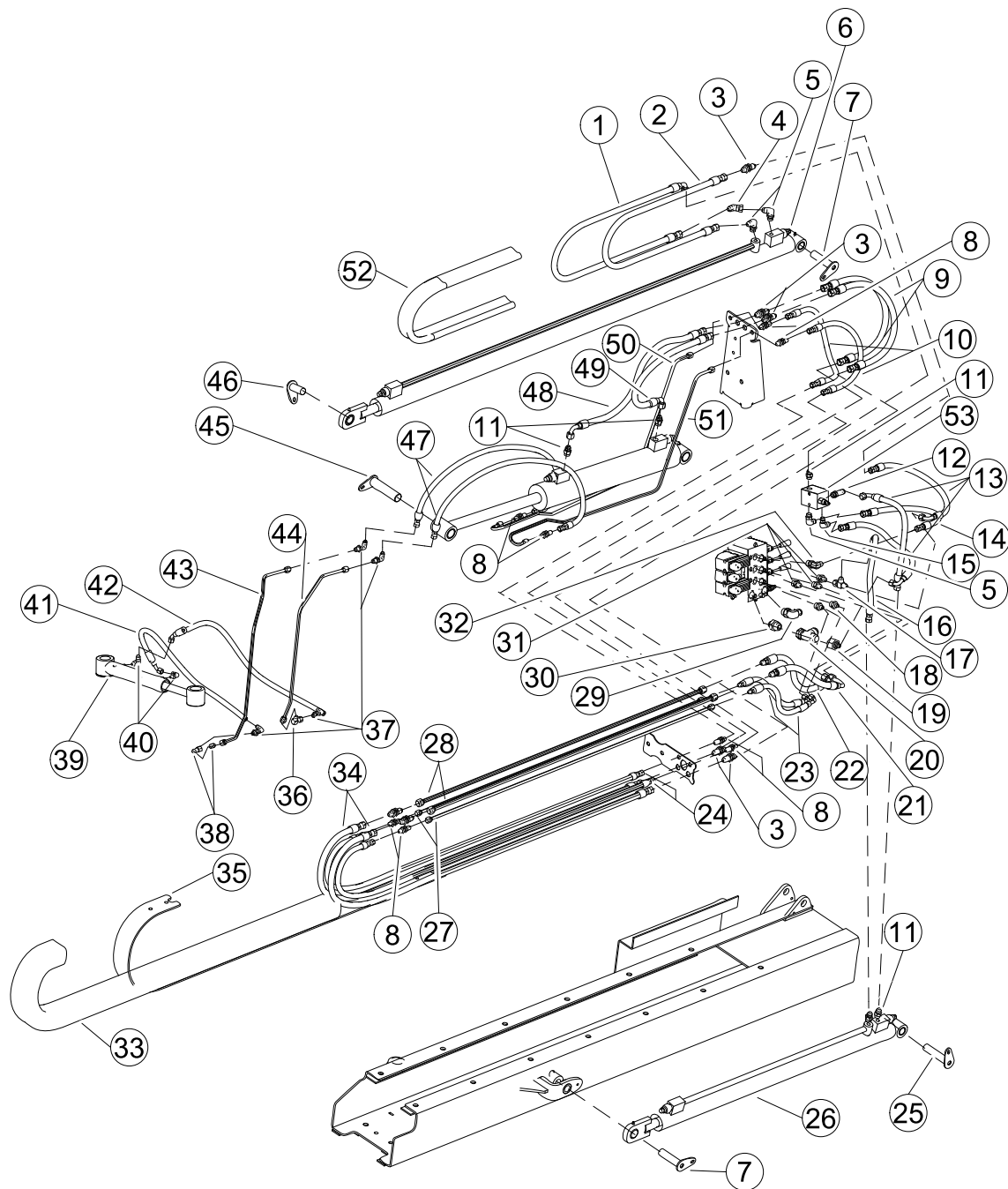
| REF. NO.                      | PART NO. | DESCRIPTION                | QTY.        |
|-------------------------------|----------|----------------------------|-------------|
| 1                             | HYB03780 | PROTECTOR                  | PER<br>INCH |
| 2                             | 155750   | REINFORCEMENT, Plastic     | 1           |
| 3                             | 172116   | HOSE - ORFS                | 1           |
|                               | 176515   | HOSE - JIC                 | 1           |
| 4                             | 172115   | HOSE - ORFS                | 1           |
|                               | 176517   | HOSE - JIC                 | 1           |
| 5                             | 172117   | HOSE - ORFS                | 1           |
|                               | 176516   | HOSE - JIC                 | 1           |
| 6                             | 172120   | HOSE - ORFS                | 1           |
|                               | 171112   | HOSE - JIC                 | 1           |
| 7                             | 172119   | HOSE - ORFS                | 1           |
|                               | 172111   | HOSE - JIC                 | 1           |
| 8                             | 88230    | TUBE - ORFS                | 1           |
|                               | 82114    | TUBE - JIC                 | 1           |
| 9                             | 172121   | HOSE - ORFS                | 1           |
|                               | 172110   | HOSE - JIC                 | 1           |
| 10                            | 88260    | TUBE - ORFS                | 1           |
|                               | 81159    | TUBE - JIC                 | 1           |
| 11                            | 88259    | TUBE - ORFS                | 1           |
|                               | 81158    | TUBE - JIC                 | 1           |
| 12                            | HYF06791 | ELBOW, Bulkhead - ORFS     | 4           |
|                               | HYF06790 | ELBOW, Bulkhead - JIC      | 4           |
| 13                            | HYF07950 | ELBOW, 90° - ORFS          | 1           |
|                               | HYF07415 | ELBOW, 90° - JIC           | 1           |
| 14                            | HYF07841 | ELBOW, 45° - ORFS          | 2           |
|                               | HYF07840 | ELBOW, 45° - JIC           | 2           |
| 15                            | 168950   | HOSE - ORFS                | 1           |
|                               | 176505   | HOSE - JIC                 | 1           |
| 16                            | HYC00235 | CYLINDER, Grabber          | 1           |
| 17                            | HYF04892 | CONNECTOR, Bulkhead - ORFS | 2           |
|                               | HYF06490 | CONNECTOR, Bulkhead - JIC  | 2           |
| 18                            | QUE01225 | NUT                        | 3           |
| 19                            | QUR01825 | WASHER                     | 6           |
| 20                            | 64559    | PIN                        | 1           |
| 21                            | QUB03053 | BOLT                       | 1           |
| 22                            | 64509    | PIN                        | 1           |
| 23                            | QUB03002 | BOLT                       | 2           |
| 24                            | 168951   | HOSE - ORFS                | 1           |
|                               | 176506   | HOSE - JIC                 | 1           |
| <b>CONTINUED ON NEXT PAGE</b> |          |                            |             |

# ARM HYDRAULICS - BCB00501-07 & -08 (ORFS);BCB00515-06 & -07(JIC)

| REF. NO. | PART NO. | DESCRIPTION                | QTY. |
|----------|----------|----------------------------|------|
| 25       | HYF04705 | CONNECTOR - ORFS           | 2    |
|          | HYF04845 | CONNECTOR - JIC            | 2    |
| 26       | 170308   | HOSE - JIC                 | 1    |
| 27       | HYF05125 | ELBOW, 90° - JIC           | 2    |
| 28       | HYF02925 | ELBOW, 45° - JIC           | 1    |
| 29       | 171693   | HOSE - ORFS                | 1    |
| 30       | 171692   | HOSE - ORFS                | 1    |
| 31       | HYF06803 | ELBOW, 90° - ORFS          | 2    |
| 32       | 64507    | PIN                        | 1    |
| 33       | QUB00498 | COLLAR, Pin                | 2    |
| 34       | 64504    | PIN                        | 1    |
| 35       | QUB00495 | COLLAR, Pin                | 2    |
| 36       | HYC00191 | CYLINDER In/Out            | 1    |
| 37       | 82229    | TUBE - ORFS                | 1    |
|          | 82113    | TUBE - JIC                 | 1    |
| 38       | HYF05171 | CONNECTOR - ORFS           | 2    |
|          | HYF05110 | CONNECTOR - JIC            | 2    |
| 39       | HYC00356 | CYLINDER - Lift            | 1    |
| 40       | 64502    | PIN                        | 1    |
| 41       | HYF04892 | CONNECTOR, Bulkhead - ORFS | 2    |
|          | HYF06490 | CONNECTOR, Bulkhead - JIC  | 2    |
| 42       | HYF04891 | CONNECTOR, Bulkhead - ORFS | 2    |
|          | HYF06500 | CONNECTOR, Bulkhead - JIC  | 2    |
| 43       | 172118   | HOSE - ORFS                | 1    |
|          | 176518   | HOSE - JIC                 | 1    |
| 44       | 170314   | HOSE - JIC                 | 1    |

**SECTION 3**

**ARM HYDRAULICS - LONG REACH - BCB00707-00**



**ARM HYDRAULICS - LONG REACH - BCB00707-00**

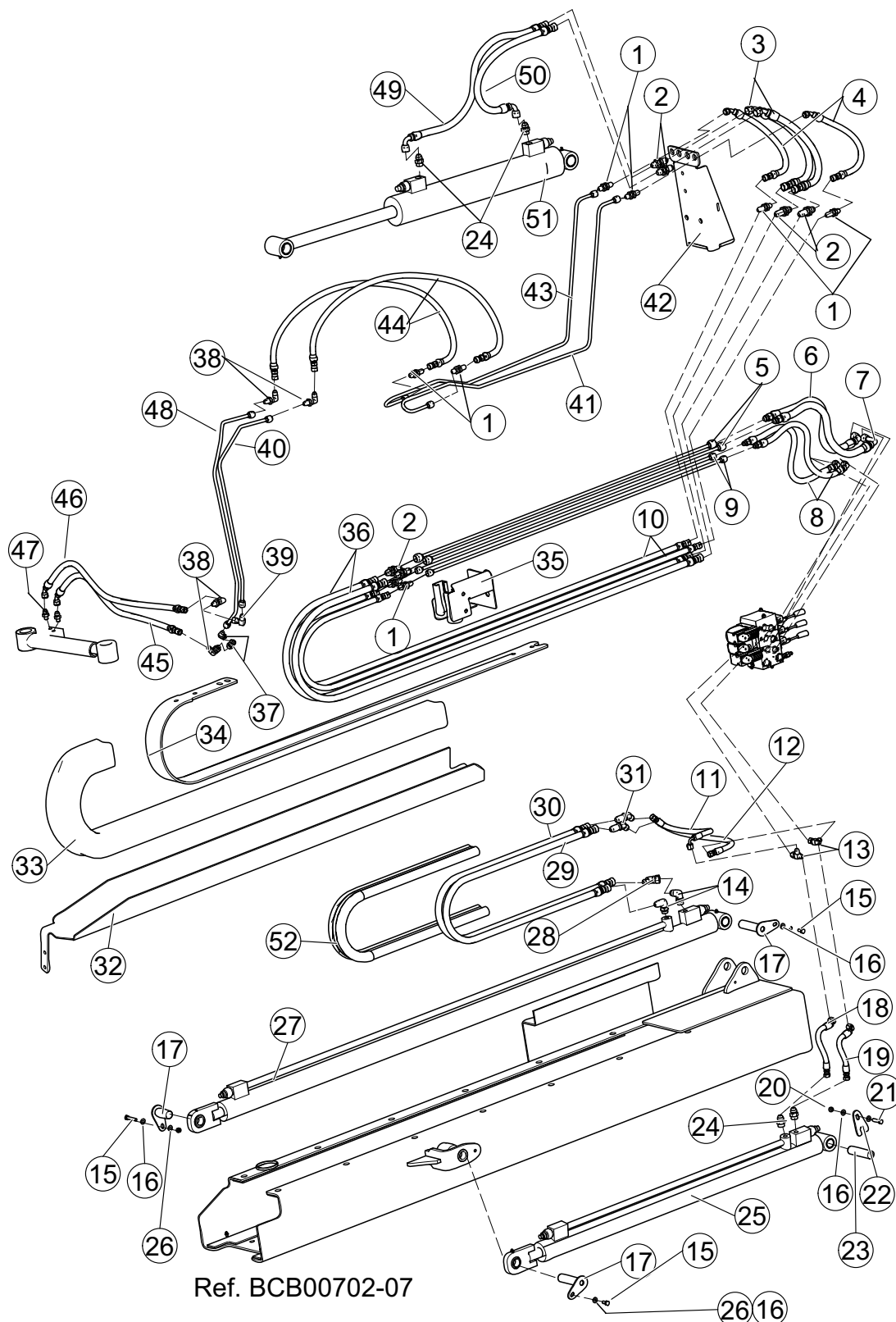
| REF. NO.                   | PART NO.    | DESCRIPTION                  | QTY. |
|----------------------------|-------------|------------------------------|------|
| 1                          | 15700       | HOSE                         | 1    |
| 2                          | 146041      | HOSE                         | 1    |
| 3                          | HYF06500    | CONNETOR, Bulkhead           | 7    |
| 4                          | HYF02925    | ELBOW                        | 1    |
| 5                          | HYF05125    | ELBOW                        | 2    |
| 6                          | HYC00191    | CYLINDER                     | 1    |
| 7                          | 64502       | PIN                          | 2    |
| 8                          | HYF06490    | CONNECTOR, Bulkhead          | 8    |
| 9                          | 64659       | HOSE                         | 2    |
| 10                         | 64660       | HOSE                         | 2    |
| 11                         | HYF05110    | ADAPTER                      | 5    |
| 12                         | HYF05111    | ADAPTER                      | 1    |
| 13                         | 49518       | HOSE                         | 3    |
| 14                         | 16751       | HOSE                         | 1    |
| 15                         | HYF05130    | ELBOW                        | 1    |
| 16                         | 36195       | HOSE                         | 1    |
| 17                         | HYF05825    | TEE                          | 1    |
| 18                         | HYF04895    | ADAPTER                      | 2    |
| 19                         | HYF10020    | REDUCER                      | 1    |
| 20                         | HYF28030    | TEE                          | 1    |
| 21                         | 82614       | HOSE                         | 1    |
| 22                         | 82616       | HOSE                         | 1    |
| 23                         | 82615       | HOSE                         | 2    |
| 24                         | 146045      | HOSE                         | 2    |
| 25                         | 84810       | PIN                          | 1    |
| 26                         | HYC00219    | CYLINDER                     | 1    |
| 27                         | 146053      | TUBE                         | 2    |
| 28                         | 146054      | TUBE                         | 2    |
| 29                         | HYF05135    | TEE                          | 1    |
| 30                         | HYF05113    | ADAPTER                      | 1    |
| 31                         | HYF04900    | ADAPTER                      | 3    |
| 32                         | HYF07450    | ELBOW                        | 1    |
| 33                         | HYB03780    | SLEEVE, Nylon (Sold By Inch) | A/R  |
| 34                         | 146046      | HOSE                         | 2    |
| 35                         | 143106      | SUPPORT, Hose                | 1    |
| 36                         | HYF07950    | ELBOW                        | 1    |
| 37                         | HYF06790    | ELBOW                        | 4    |
| 38                         | HYF07840    | ELBOW                        | 2    |
| 39                         | HYC00166-01 | CYLINDER                     | 1    |
| 40                         | HYF07400    | ELBOW                        | 2    |
| <b>CONTINUED NEXT PAGE</b> |             |                              |      |

**SECTION 3****ARM HYDRAULICS - LONG REACH** - BCB00707-00

| REF. NO. | PART NO. | DESCRIPTION                  | QTY. |
|----------|----------|------------------------------|------|
| 41       | 64557    | HOSE                         | 1    |
| 42       | 64560    | HOSE                         | 1    |
| 43       | 81158    | TUBE                         | 1    |
| 44       | 81159    | TUBE                         | 1    |
| 45       | 64559    | PIN                          | 1    |
| 46       | 64508    | PIN                          | 1    |
| 47       | 67809    | HOSE                         | 2    |
| 48       | 12546    | HOSE                         | 1    |
| 49       | 26506    | HOSE                         | 1    |
| 50       | 82113    | TUBE                         | 1    |
| 51       | 82114    | TUBE                         | 1    |
| 52       | HYB03650 | SLEEVE, Nylon (Sold by Inch) | A/R  |
| 53       | HYV08110 | VALVE, Sequence              | 1    |



## ARM HYDRAULICS - LONG REACH -



**SECTION 3****ARM HYDRAULICS - LONG REACH -** BCB00700-06 & -07; BCB00702-06 & -07

| REF. NO.                      | PART NO.     | DESCRIPTION                             | QTY. |
|-------------------------------|--------------|-----------------------------------------|------|
| 1                             | HYF06490     | CONNECTOR, Bulkhead - JIC               | 8    |
|                               | HYF04892     | CONNECTOR, Bulkhead - ORFS              | 8    |
| 2                             | HYF06500     | CONNECTOR, Bulkhead - JIC               | 6    |
|                               | HYF04891     | CONNECTOR, Bulkhead - ORFS              | 6    |
| 3                             | 171687       | HOSE - JIC                              | 2    |
|                               | 176503       | HOSE - ORFS                             | 2    |
| 4                             | 171686       | HOSE - JIC                              | 2    |
|                               | 176504       | HOSE - ORFS                             | 2    |
| 5                             | 85373        | TUBE - JIC                              | 2    |
|                               | 171251       | TUBE - ORFS                             | 2    |
| 6                             | 171681       | HOSE - ORFS                             | 1    |
|                               | 176509       | HOSE - JIC                              | 1    |
| 7                             | 171680       | HOSE - ORFS                             | 1    |
|                               | 176510       | HOSE - JIC                              | 1    |
| 8                             | 171679       | HOSE - ORFS                             | 2    |
|                               | 176511       | HOSE - JIC                              | 2    |
| 9                             | 171250       | TUBE - ORFS                             | 2    |
|                               | 85372        | TUBE - JIC                              | 2    |
| 10                            | 171683       | HOSE - ORFS                             | 2    |
|                               | 172114       | HOSE - JIC                              | 2    |
| 11                            | 175796       | HOSE - JIC                              | 1    |
|                               | NOT RELEASED | HOSE - ORFS                             | 1    |
| 12                            | 170283       | HOSE - JIC                              | 1    |
|                               | NOT RELEASED | HOSE - ORFS                             | 1    |
| 13                            | HYF05825     | TEE - JIC                               | 2    |
|                               | NOT RELEASED | TEE - ORFS                              | 2    |
| 14                            | HYF05125     | ELBOW, 90° - JIC                        | 2    |
|                               | HYF05126     | ELBOW, 90° - ORFS                       | 2    |
| 15                            | QUB02725     | BOLT                                    | 2    |
| 16                            | QUR01825     | WASHER                                  | 4    |
| 17                            | 64502        | PIN                                     | 3    |
| 18                            | 170285       | HOSE - JIC (Used with 3 Section Valve)  | 1    |
|                               | 170286       | HOSE - JIC (Used with 4 Section Valve)  | 1    |
|                               | 170287       | HOSE - JIC (Used with 5 Section Valve)  | 1    |
|                               | NOT RELEASED | HOSE - ORFS (Used with 3 Section Valve) | 1    |
|                               | NOT RELEASED | HOSE - ORFS (Used with 4 Section Valve) | 1    |
|                               | NOT RELEASED | HOSE - ORFS (Used with 5 Section Valve) | 1    |
| <b>CONTINUED ON NEXT PAGE</b> |              |                                         |      |

# ARM HYDRAULICS - LONG REACH - BCB00700-06 & -07; BCB00702-06 & -07

| REF. NO.               | PART NO.     | DESCRIPTION                             | QTY. |
|------------------------|--------------|-----------------------------------------|------|
| 19                     | 170290       | HOSE - JIC (Used with 3 Section Valve)  | 1    |
|                        | 170288       | HOSE - JIC (Used with 4 Section Valve)  | 1    |
|                        | 170289       | HOSE - JIC (Used with 5 Section Valve)  | 1    |
|                        | NOT RELEASED | HOSE - ORFS (Used with 3 Section Valve) | 1    |
|                        | NOT RELEASED | HOSE - ORFS (Used with 4 Section Valve) | 1    |
|                        | NOT RELEASED | HOSE - ORFS (Used with 5 Section Valve) | 1    |
| 20                     | QUE01225     | NUT                                     | 1    |
| 21                     | QUB03002     | BOLT                                    | 1    |
| 22                     | 171265       | RETAINER                                | 1    |
| 23                     | 171264       | PIN                                     | 1    |
| 24                     | HYF05110     | CONNECTOR - JIC                         | 4    |
|                        | HYF05171     | CONNECTOR - ORFS                        | 4    |
| 25                     | HYC00219     | CYLINDER                                | 1    |
| 26                     | QUR01270     | WASHER                                  | 2    |
| 27                     | HYC00191     | CYLINDER                                | 1    |
| 28                     | HYF02925     | ELBOW, 45° - JIC                        | 1    |
|                        | HYF02932     | ELBOW, 45° - ORFS                       | 1    |
| 29                     | 176507       | HOSE - JIC                              | 1    |
|                        | 171684       | HOSE - ORFS                             | 1    |
| 30                     | 176508       | HOSE - JIC                              | 1    |
|                        | 171682       | HOSE - ORFS                             | 1    |
| 31                     | HYF02930     | ELBOW, 45° - Bulkhead - JIC             | 2    |
|                        | HYF02934     | ELBOW, 45° - Bulkhead - ORFS            | 2    |
| 32                     | 180471       | GUIDE, Hose                             | 1    |
| 33                     | HYB03780     | SLEEVE, Nylon                           | 78IN |
| 34                     | 85371        | REINFORCEMENT, Plastic                  | 1    |
| 35                     | 85374        | BRACKET, Hose Support                   | 1    |
| 36                     | 172113       | HOSE - JIC                              | 2    |
|                        | 171678       | HOSE - ORFS                             | 2    |
| 37                     | HYF07840     | ELBOW, 45° - Swivel - JIC               | 2    |
|                        | HYF07841     | ELBOW, 45° - Swivel - ORFS              | 2    |
| 38                     | HYF06790     | ELBOW, 90° - JIC                        | 2    |
|                        | HYF06791     | ELBOW, 90° - ORFS                       | 2    |
| 39                     | HYF07950     | ELBOW, 90° - Swivel - JIC               | 1    |
|                        | HYF07415     | ELBOW, 90° - Swivel - ORFS              | 1    |
| 40                     | 81159        | TUBE - JIC                              | 1    |
|                        | 88260        | TUBE - ORFS                             | 1    |
| CONTINUED ON NEXT PAGE |              |                                         |      |

**SECTION 3****ARM HYDRAULICS - LONG REACH -** BCB00700-06 & -07; BCB00702-06 & -07

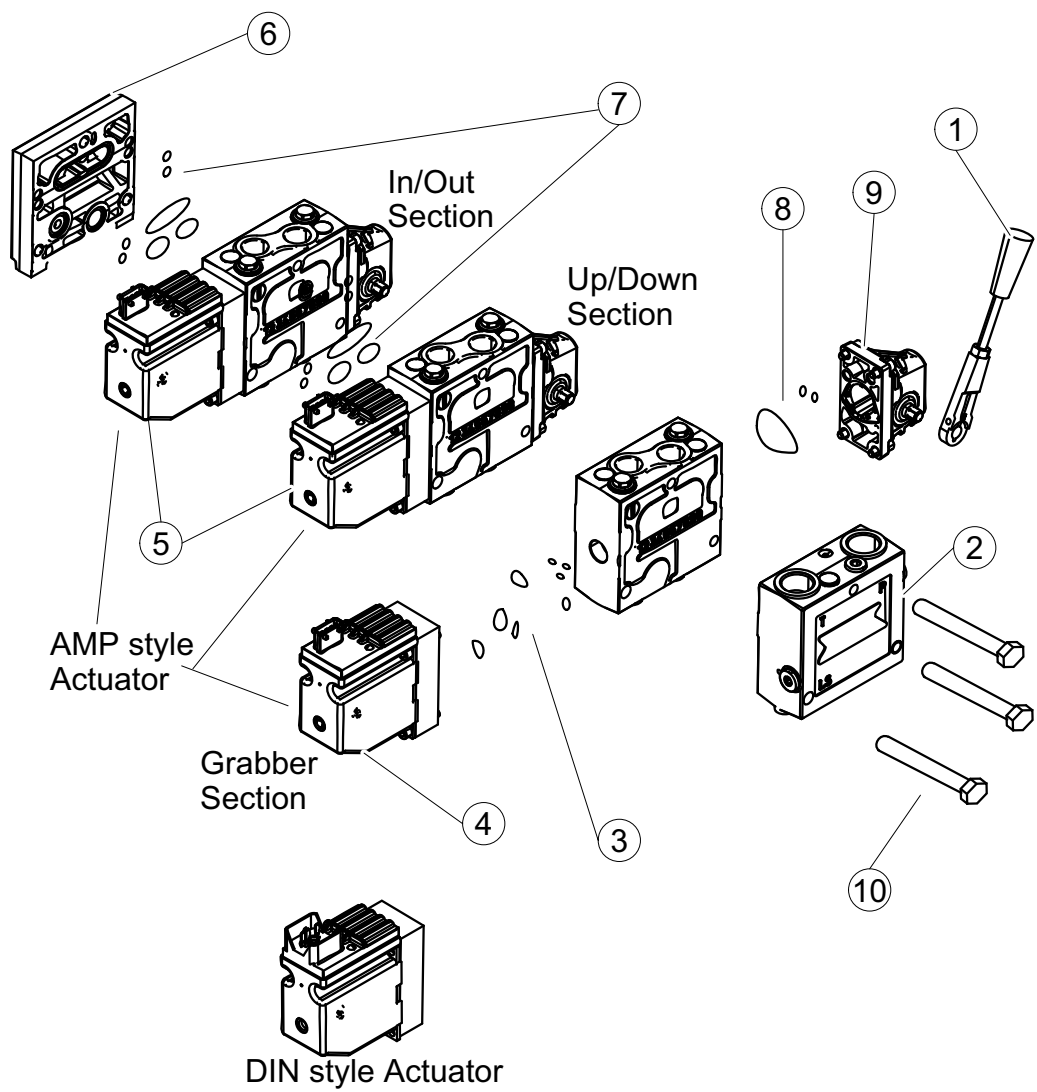
| REF. NO. | PART NO.  | DESCRIPTION    | QTY. |
|----------|-----------|----------------|------|
| 41       | 88230     | TUBE -JIC      | 1    |
|          | 82113     | TUBE - ORFS    | 1    |
| 42       | 143079    | BRACKET        | 1    |
| 43       | 82114     | TUBE - JIC     | 1    |
|          | 88229     | TUBE - ORFS    | 1    |
| 44       | 172110    | HOSE - JIC     | 2    |
|          | 172121    | HOSE - ORFS    | 2    |
| 45       | 176505    | HOSE - JIC     | 1    |
|          | 168950    | HOSE - ORFS    | 1    |
| 46       | 176506    | HOSE - JIC     | 1    |
|          | 168951    | HOSE - ORFS    | 1    |
| 47       | HYF04845  | ADAPTER- JIC   | 2    |
|          | HYF047055 | ADAPTER - ORFS | 2    |
| 48       | 81158     | TUBE - JIC     | 1    |
|          | 88259     | TUBE - ORFS    | 1    |
| 49       | 172111    | HOSE - JIC     | 1    |
|          | 172119    | HOSE - ORFS    | 1    |
| 50       | 172112    | HOSE - JIC     | 1    |
|          | 172120    | HOSE - ORFS    | 1    |
| 51       | HYC00356  | CYLINDER       | 1    |
| 52       | HYB03600  | SLEEVE, Nylon  | 4 FT |



**SECTION 4**

**ARM CONTROL VALVE**

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# ARM CONTROL VALVE - Valves: HYV04406, HYV04407, HYV04408, HYV04450, HYV04455 & HYV04459

| REF. NO. | PART NO.    | DESCRIPTION                                                                                                                                  | QTY. |
|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1        | HYV04316    | HANDLE                                                                                                                                       | A/R  |
| 2        | HYV04433    | SECTION, Inlet                                                                                                                               | 1    |
| 3        | HYV04335-01 | KIT, Seal - Electric Actuator                                                                                                                | A/R  |
| 4        | HYV04328    | ACTUATOR, AMP Style, On/Off - Gripper, Crusher or Tipper Section                                                                             | A/R  |
|          | HYV04320    | ACTUATOR, DIN Style, On/Off - Gripper, Crusher or Tipper Section                                                                             | A/R  |
|          | 79280       | HARNESS, Adapter, AMP to DIN                                                                                                                 | A/R  |
| 5        | HYV04327    | ACTUATOR, AMP Style, Proportional - In/Out or Up/Down Section                                                                                | A/R  |
|          | HYV04321-01 | ACTUATOR, DIN Style, Proportional - In/Out or Up/Down Section                                                                                | A/R  |
|          | 79461       | HARNESS, Adapter, AMP to DIN - In/Out Section                                                                                                | A/R  |
|          | 79462       | HARNESS, Adapter, AMP to DIN - Up/Down Section                                                                                               | A/R  |
| 6        | HYV04377    | SECTION, End                                                                                                                                 | 1    |
| 7        | HYV04429    | KIT, Seal, Between Sections                                                                                                                  | A/R  |
| 8        | HYV04330    | KIT, Seal, Handle End                                                                                                                        | A/R  |
| 9        | HYV04315    | ASSEMBLY, Actuator - Handle End<br>(Includes Items 1 & 8)                                                                                    | A/R  |
| 10       | HYV04325    | KIT, Stud (3 Section)                                                                                                                        | A/R  |
|          | HYV04329    | KIT, Stud (4 Section)                                                                                                                        | A/R  |
|          | HYV04431    | KIT, Stud (5 Section)                                                                                                                        | A/R  |
|          | HYV04410    | ASSY, Sect, On/Off -Tipper, Grabber or Crusher. Used on Valves HYV04406, 04407, 04408, 04450, 04455 & 04459, Using Pump HYV01496 or HYV01461 | A/R  |
|          | HYV04360    | SPOOL - Used with section HYV04410 Only                                                                                                      |      |
|          | HYV04420    | ASSY, Sect, Proportional - In/Out or Up/Down, Used on Valves HYV04406, 04407, 04408 & 04459, Using Pump HYV01496                             | A/R  |
|          | HYV04365    | SPOOL - Used with section HYV04420 Only                                                                                                      |      |
|          | HYV04421    | ASSY, Sect, Proportional - In/Out or Up/Down, Used on Valves HYV04450 & HYV04455 Using Pump HYP01461                                         | A/R  |
|          | HYV04369    | SPOOL - Used with section HYV04421 Only                                                                                                      |      |
|          | HYV04334    | ASSY, Sect, Proportional - Up/Down Only, Used on Valve HYV04459, Using Pump HYP01496. (Option: Pressure Limiting Up/Down )                   | A/R  |
|          | HYV04368    | SPOOL - Used with Section HYV04334 Only                                                                                                      |      |
|          | HYV04406    | ASSY, Valve - Complete (4 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                  |      |
|          | HYV04407    | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                  |      |
|          | HYV04408    | ASSY, Valve - Complete (5 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                  |      |
|          | HYV04450    | ASSY, Valve - Complete (4 Sect) Used on Std/HD RH. Arms Using Pump HYV01461                                                                  |      |
|          | HYV04455    | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms Using Pump HYV01461                                                                  |      |
|          | HYV04459    | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms W/Press. Limiter on Up/Down Section, Using Pump HYV01496                             |      |

## SECTION 4

# ARM CTRL. VALVE -

Valves: HYV04406-01, HYV04407-01, HYV04408-01, HYV04450-01, HYV04455-01 & HYV04459-01

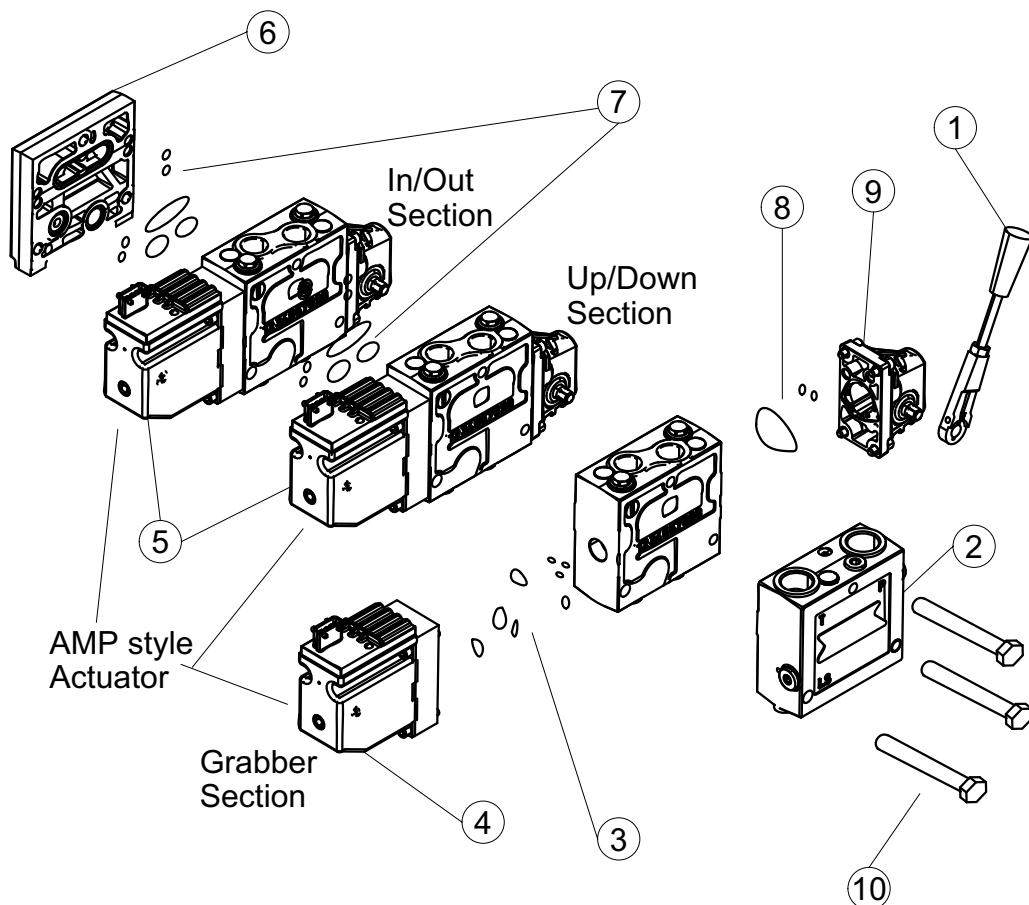
NOTE: New Style valves have a internal drain to reduce arm drifting, the entire valve assy. CAN replace old style valve assy. Individual New style section assy's, spools and inlet sections cannot replace Old style assy's.

New Style Valve Assy. P/N's:

HYC04406-01  
HYC04407-01  
HYC04408-01  
HYC04450-01  
HYC04455-01  
HYC04459-01

Old Style Valve Assy. P/N's:

HYC04406  
HYC04407  
HYC04408  
HYC04450  
HYC04455  
HYC04459





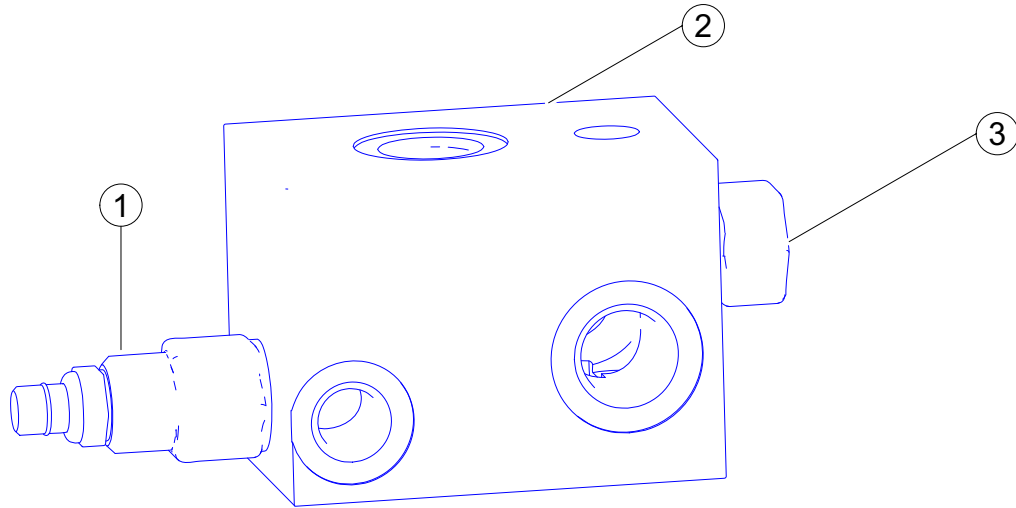
## ARM CTRL. VALVE

- Valves: HYV04406-01, HYV04407-01, HYV04408-01, HYV04450-01, HYV04455-01 &amp; HYV04459-01

| REF. NO. | PART NO.    | DESCRIPTION                                                                                                                                                    | QTY. |
|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1        | HYV04316    | HANDLE                                                                                                                                                         | A/R  |
| 2        | HYV04462    | SECT., Inlet - Used On valves: HYV04406-01, HYV04407-01, HYV04408-01 & HYV04459-01                                                                             | 1    |
|          | HYV04463    | SECT., Inlet - Used On valves: HYV04450-01 & HYV04455-01                                                                                                       | 1    |
| 3        | HYV04335-01 | KIT, Seal - Electric Actuator                                                                                                                                  | A/R  |
| 4        | HYV04328    | ACTUATOR, AMP Style, On/Off - Gripper, Crusher or Tipper Section                                                                                               | A/R  |
|          | HYV04320    | ACTUATOR, DIN Style, On/Off - Gripper, Crusher or Tipper Section                                                                                               | A/R  |
|          | 79280       | HARNESS, Adapter, AMP to DIN                                                                                                                                   | A/R  |
| 5        | HYV04327    | ACTUATOR, AMP Style, Proportional - In/Out or Up/Down Section                                                                                                  | A/R  |
|          | HYV04321-01 | ACTUATOR, DIN Style, Proportional - In/Out or Up/Down Section                                                                                                  | A/R  |
|          | 79461       | HARNESS, Adapter, AMP to DIN - In/Out Section                                                                                                                  | A/R  |
|          | 79462       | HARNESS, Adapter, AMP to DIN - Up/Down Section                                                                                                                 | A/R  |
| 6        | HYV04377    | SECTION, End                                                                                                                                                   | 1    |
| 7        | HYV04429    | KIT, Seal, Between Sections                                                                                                                                    | A/R  |
| 8        | HYV04330    | KIT, Seal, Handle End                                                                                                                                          | A/R  |
| 9        | HYV04315    | ASSEMBLY, Actuator - Handle End<br>(Includes Items 1 & 8)                                                                                                      | A/R  |
| 10       | HYV04325    | KIT, Stud (3 Section)                                                                                                                                          | A/R  |
|          | HYV04329    | KIT, Stud (4 Section)                                                                                                                                          | A/R  |
|          | HYV04431    | KIT, Stud (5 Section)                                                                                                                                          | A/R  |
|          | HYV04464    | ASSY, Sect, On/Off -Tipper, Grabber or Crusher. Used on Valves HYV04406-01, 04407-01, 04408-01, 04450-01, 04455-01 & 04459-01, Using Pump HYV01496 or HYV01461 | A/R  |
|          | HYV04360    | SPOOL - Used with section HYV04464 Only                                                                                                                        |      |
|          | HYV04465    | ASSY, Sect, Proportional - In/Out or Up/Down, Used on Valves HYV04407-01 & HYV04455-1, Using Pump HYV01496 or HYV01461                                         | A/R  |
|          | HYV04365    | SPOOL - Used with section HYV04465 Only                                                                                                                        |      |
|          | HYV04474    | ASSY, Sect, Proportional - Up/Down Only, Used on Valve: HYV04459-01<br>Using Pump HYP01496 (Option: Pressure Limiting Up/Down)                                 | A/R  |
|          | HYV04368    | SPOOL - Used with section HYV04474 Only                                                                                                                        |      |
|          | HYV04406-01 | ASSY, Valve - Complete (4 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                                    |      |
|          | HYV04407-01 | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                                    |      |
|          | HYV04408-01 | ASSY, Valve - Complete (5 Sect) Used on Std/HD RH. Arms Using Pump HYV01496                                                                                    |      |
|          | HYV04450-01 | ASSY, Valve - Complete (4 Sect) Used on Std/HD RH. Arms Using Pump HYV01461                                                                                    |      |
|          | HYV04455-01 | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms Using Pump HYV01461                                                                                    |      |
|          | HYV04459-01 | ASSY, Valve - Complete (3 Sect) Used on Std/HD RH. Arms W/Press. Limiter on Up/Down Section, Using Pump HYV01496                                               |      |



# SEQUENCE VALVE - HYV08110

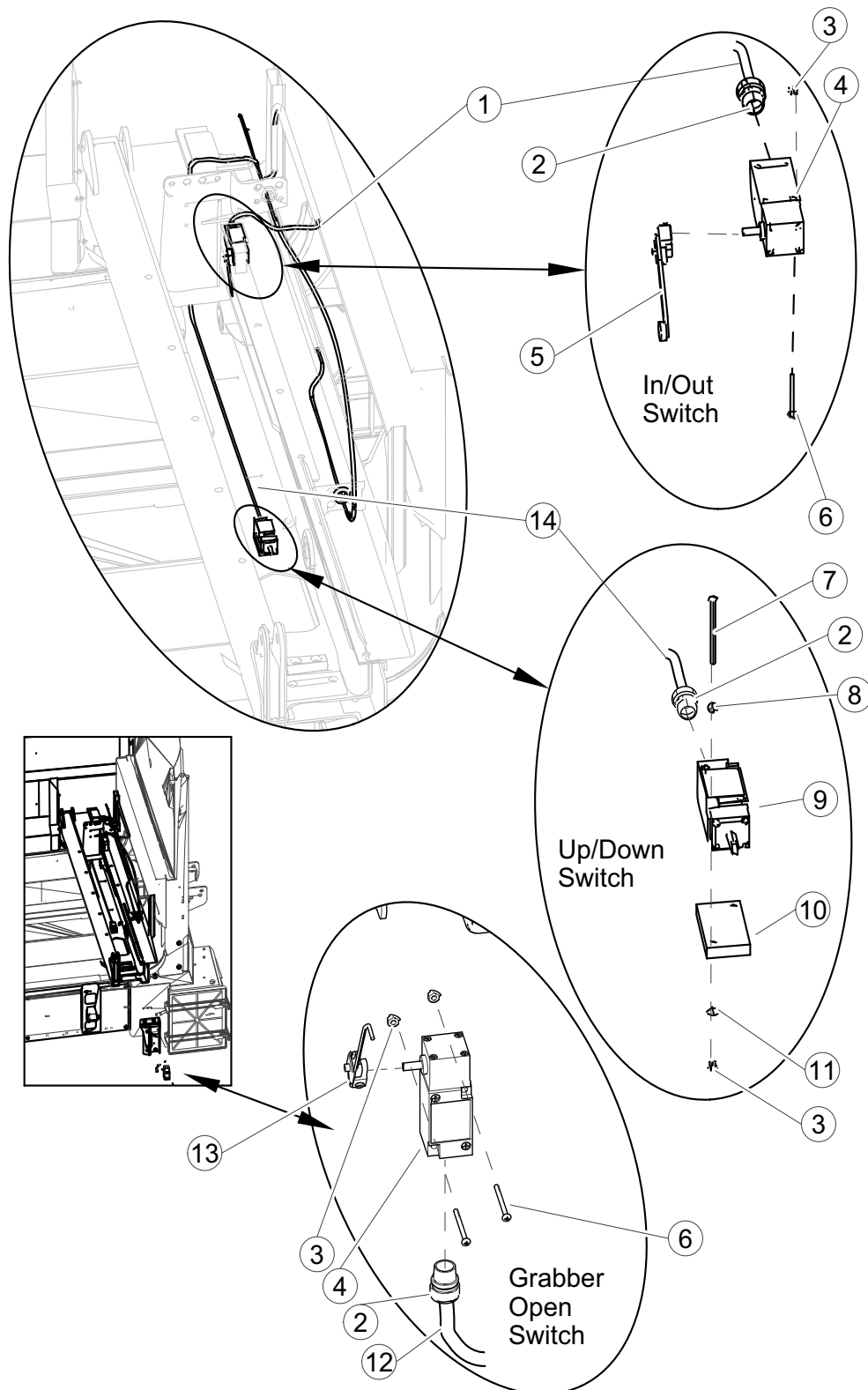


| REF. NO. | PART NO. | DESCRIPTION                       | QTY. |
|----------|----------|-----------------------------------|------|
| 1        | HYV08111 | ASSEMBLY, Cartridge - Sequential  | 1    |
| 2        | HYV08110 | ASSEMBLY, Valve - Complete        | 1    |
| 3        | HYV08112 | ASSEMBLY, Cartridge - Check Valve | 1    |
|          | HYJ08110 | KIT, Seal                         | 1    |

## SECTION 5

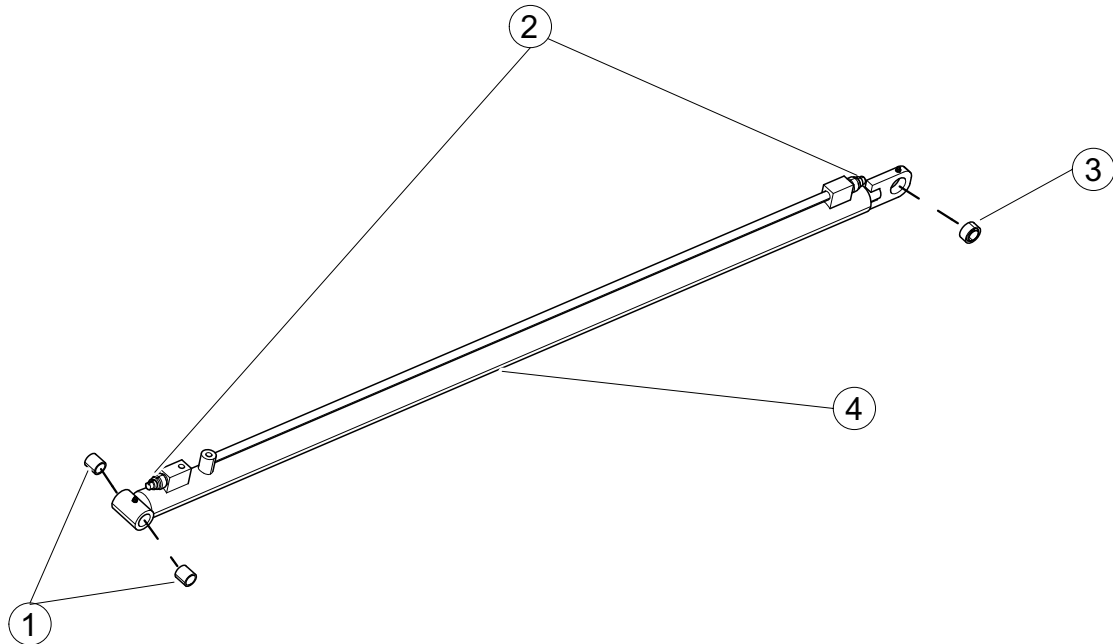
# ELECTRICAL

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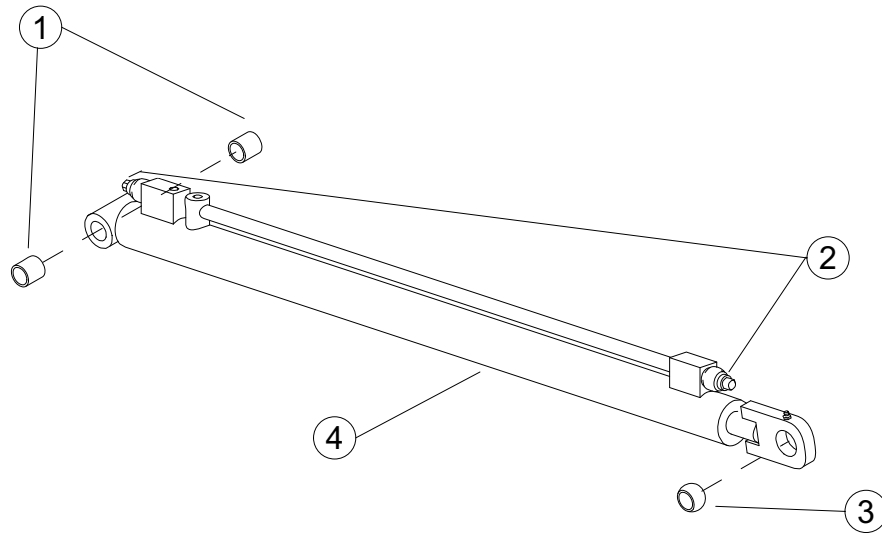
**SECTION 5**  
**ELECTRICAL**

| REF. NO. | PART NO. | DESCRIPTION                                               | QTY. |
|----------|----------|-----------------------------------------------------------|------|
| 1        | 27584    | HARNESS                                                   | 1    |
| 2        | ELC00140 | CONNECTOR                                                 | 3    |
| 3        | QUE01070 | NUT                                                       | 6    |
| 4        | ELI00550 | SWITCH                                                    | 2    |
| 5        | ELI00852 | ACTUATOR                                                  | 1    |
| 6        | QUV01925 | BOLT                                                      | 4    |
| 7        | QUV01965 | BOLT                                                      | 2    |
| 8        | QUB47500 | SPACER                                                    | 2    |
| 9        | ELI00530 | SWITCH                                                    | 1    |
| 10       | 64677    | SPACER                                                    | 1    |
| 11       | QUR01600 | WASHER                                                    | 2    |
| 12       | 66752    | HARNESS                                                   | 1    |
| 13       | 81718    | ACTUATOR                                                  | 1    |
| 14       | 27744    | HARNESS (Use on all Helping Hand arms except BCB00700-01) | 1    |
|          | 94338    | HARNESS (Use on arm BCB00700-01)                          | 1    |

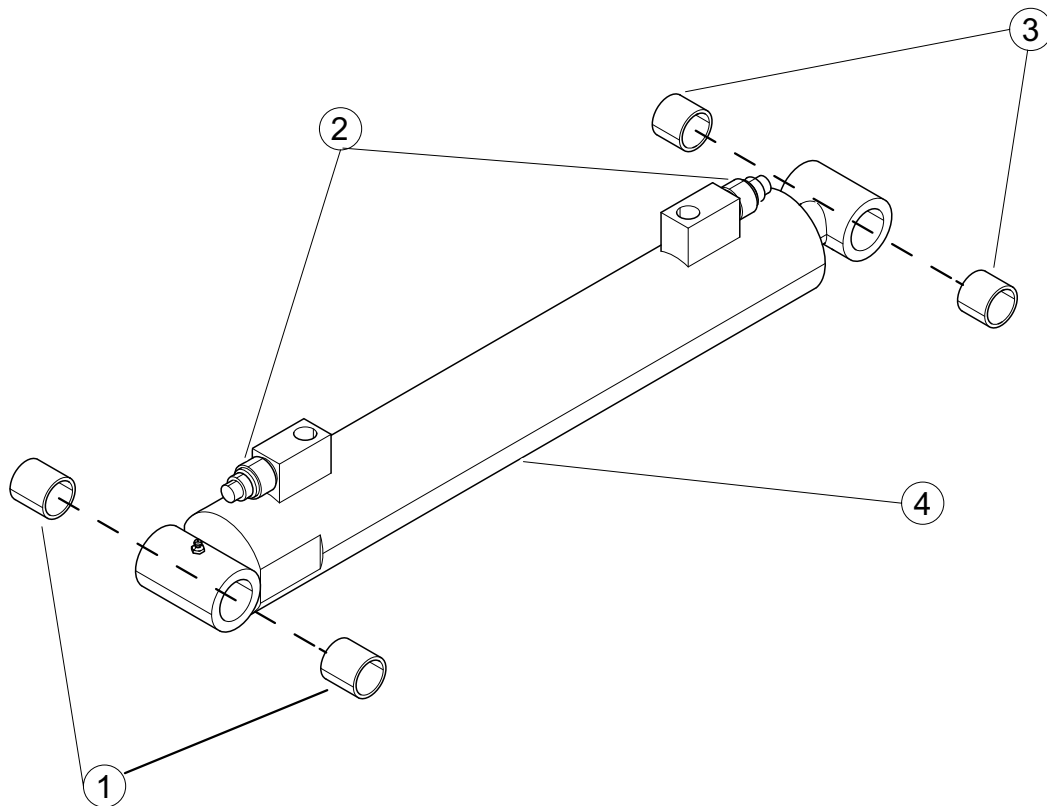
**SECTION 6****INSIDE EXTENSION CYLINDER - STD. & LONG REACH**

| REF. NO. | PART NO. | DESCRIPTION                                | QTY. |
|----------|----------|--------------------------------------------|------|
| 1        | HYC08002 | BUSHING                                    | 2    |
| 2        | HYC02660 | VALVE, Flow Control                        | 2    |
|          | HYJ04010 | KIT, Seal (Used for Flow Control HYC02660) |      |
| 3        | HYC08003 | BEARING                                    | 1    |
| 4        | HYC00191 | ASSEMBLY, Cylinder - Complete              | 1    |
|          | HYJ00191 | KIT, Seal                                  | 1    |

# OUTSIDE EXTENSION CYLINDER - LONG REACH

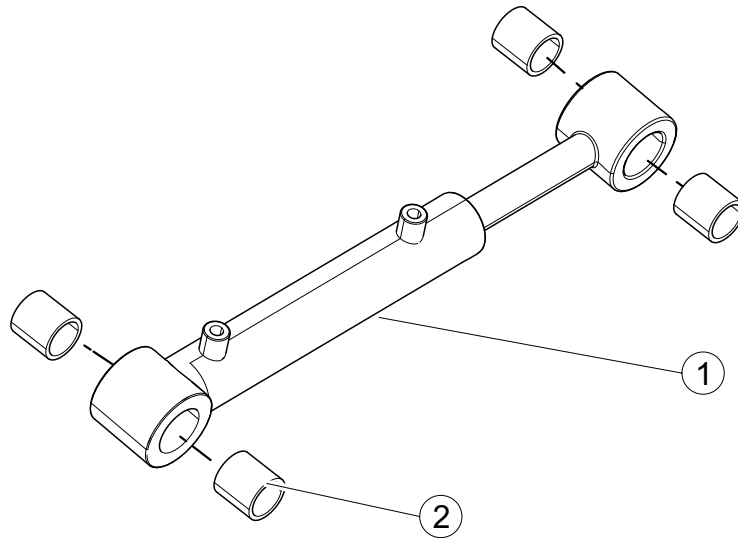


| REF. NO. | PART NO. | DESCRIPTION         | QTY. |
|----------|----------|---------------------|------|
| 1        | HYC08002 | BUSHING             | 2    |
| 2        | HYC02660 | VALVE, Flow Control | 2    |
| 3        | HYC08003 | BEARING             | 1    |
| 4        | HYC00219 | ASSEMBLY, Cylinder  | 1    |
|          | HYJ00191 | KIT, Seal           | 1    |

**SECTION 6****ARM LIFT CYLINDER - 1.25" PIN DIA. - HYC00356**

| REF. NO.                                                                   | PART NO. | DESCRIPTION                   | QTY. |
|----------------------------------------------------------------------------|----------|-------------------------------|------|
| 1                                                                          | HYC08001 | BUSHING                       | 2    |
| 2                                                                          | HYC02660 | VALVE, Flow Control           | 2    |
| 3                                                                          | HYC08000 | BUSHING                       | 2    |
| 4                                                                          | HYC00356 | ASSEMBLY, Cylinder - Complete | 1    |
|                                                                            | HYJ00356 | KIT, Seal                     | 1    |
| NOTE: Older BCB00500 arms had a Cyl. with a 1" dia pin Cylinder = HYC00357 |          |                               |      |

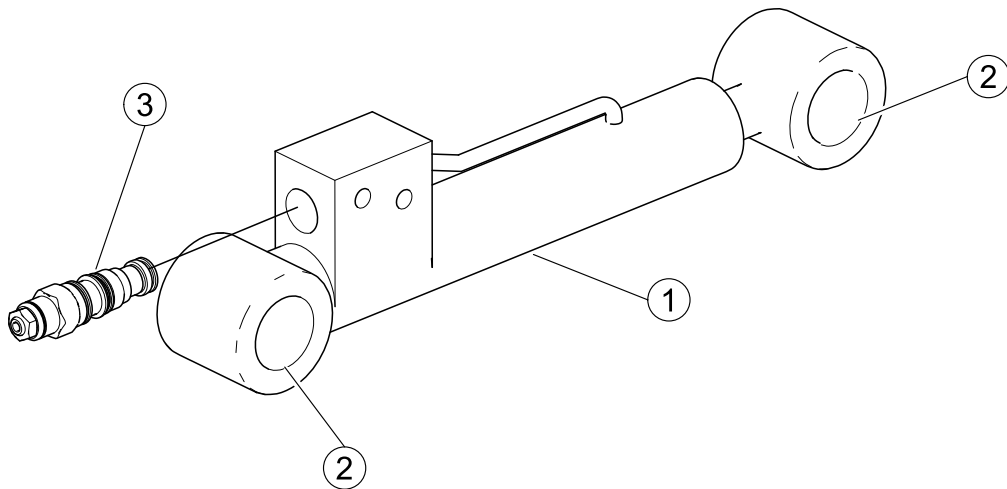


**GRABBER CYLINDER - HYC00166-01**

| REF. NO. | PART NO.    | DESCRIPTION                   | QTY. |
|----------|-------------|-------------------------------|------|
| 1        | HYC00166-01 | ASSEMBLY, Cylinder - Complete | 1    |
|          | HYJ00166    | KIT, Seal                     | 1    |
| 2        | QUB00166    | BUSHING                       | 4    |

**SECTION 6****GRABBER CYLINDER W/Holding Valve - HYC00235**

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| REF. NO. | PART NO. | DESCRIPTION                          | QTY. |
|----------|----------|--------------------------------------|------|
| 1        | HYC00235 | ASSY., Cylinder - Complete           | 1    |
|          | HYJ00166 | SEAL KIT (Used on Cylinder HYC00235) | 1    |
| 2        | QUB00166 | BEARING                              | 4    |
| 3        | H-V0080  | CARTRIDGE, Holding                   | 1    |



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