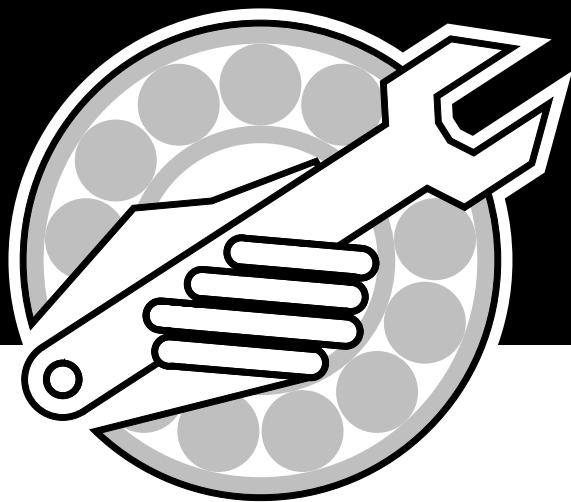




Parts Manual



RAZR Disc Drill

IMPORTANT:

ALL ITEMS ARE IDENTIFIED WITH A PART NUMBER. Some of the smaller parts such as bolts, nuts, washers, etc. are not all shown, however, the quantity used are listed in the text for that section which they fit into. That particular quantity is always the quantity required for one complete assembly.

Smaller parts, which are welded together to construct a larger part, are not to be ordered as individual pieces, unless they have a part number to identify them.

Contact your nearest dealer for genuine repair parts. Dealers carry ample stock and are backed by the manufacturer and regional associations.

MORRIS PAINT

Spray Cans:

| Part Number | Description |
|--------------------|----------------------------|
| W-4647 | Red MORRIS Spray Can |
| N31087 | Sky White MORRIS Spray Can |

Litre Cans:

| Part Number | Description |
|--------------------|------------------------|
| Z-10..... | Red MORRIS Paint/Litre |

Manuals

| Part Number | Description |
|--------------------|--------------------|
| S51367..... | Operator's Manual |
| S51368..... | Assembly Manual |

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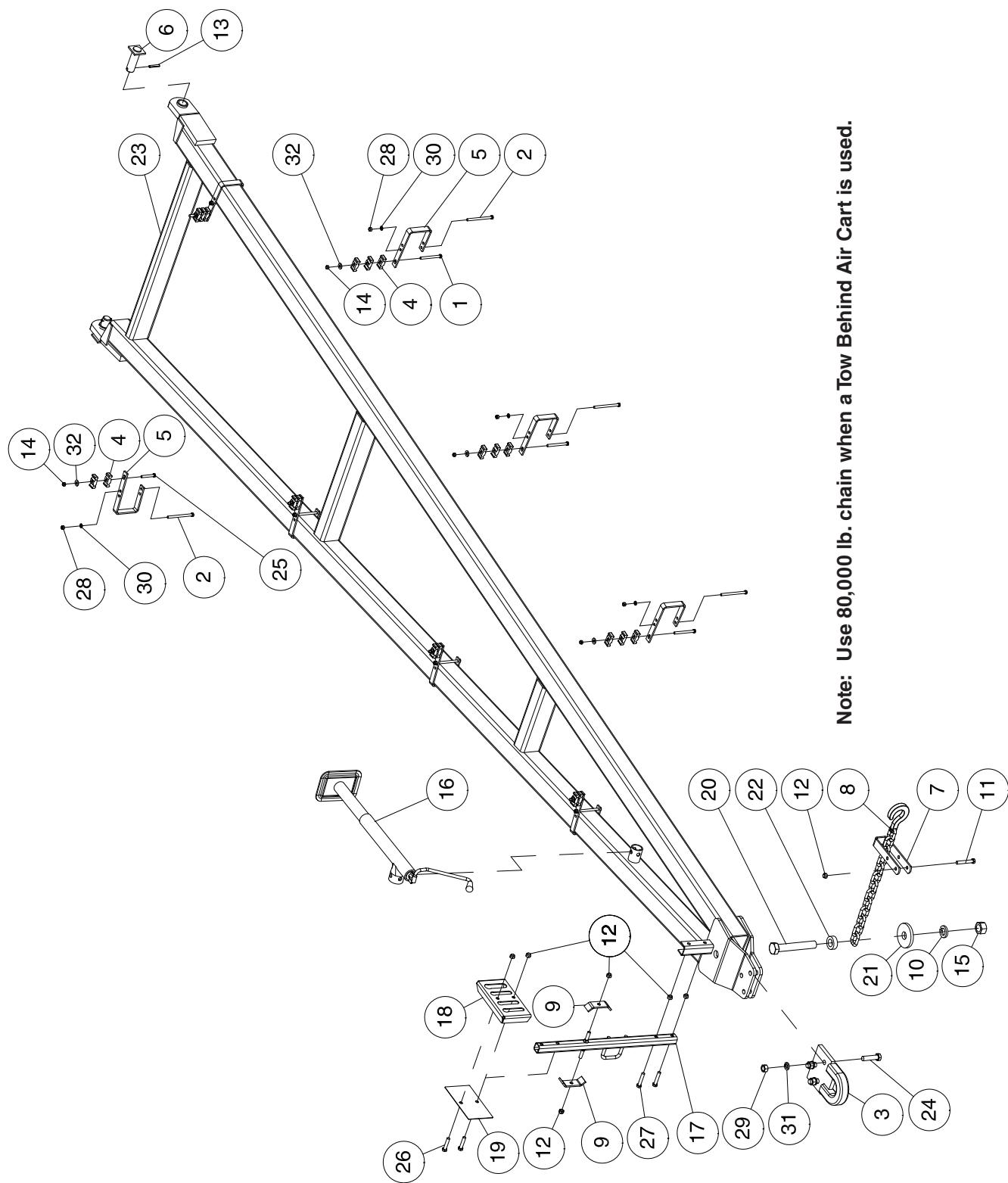
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Section 1: Frames

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Frames
Front Hitch - Prior to 2015



Frames - Front Hitch - Prior to 2015

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C-1550 | Hex Bolt - 3/8 x 4 Lg..... | 4 |
| 2 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 8 |
| 3 | C-4438 | Clevis | 1 |
| 4 | C-4698 | Oil Line Clamp | 20 |
| 5 | C14411 | Oil Line Bracket..... | 8 |
| 6 | C18531 | Pin - 1 3/8 Dia x 3 5/8 UL..... | 2 |
| 7 | C18758 | Safty Chain Intermed. Support..... | 1 |
| 8 | C18761 | Safety Chain - 40,000 Lb - Standard on 40 ft..... | 1 |
| | N44710 | Safety Chain - 80,000 Lb - Standard on 50 and 60 ft..... | 1 |
| 9 | C26321 | Hose Holder Clamp..... | 2 |
| 10 | C39432 | Lockwasher - 1 1/4..... | 1 |
| 11 | D-5519 | Hex Bolt - 1/2 x 3 1/4 Lg..... | 1 |
| 12 | F-3405 | Locknut - 1/2 Unitorque..... | 7 |
| 13 | J12281 | Heavy Duty Coiled Spring Pin..... | 2 |
| 14 | M-3388 | Locknut - 3/8 Unitorque..... | 8 |
| 15 | P61D20 | Hex Nut - 1 1/4..... | 1 |
| 16 | S39391 | Top Wind Jack | 1 |
| 17 | S39665 | Hose Holder Stand..... | 1 |
| 18 | S39666 | Hydraulic Hose Holder Plate - 4 Slot..... | 1 |
| 19 | S39669 | Back Plate - 4 Slot | 1 |
| 20 | S44715 | Hex Bolt - 1 1/4 x 8 Lg..... | 1 |
| 21 | S44716 | Retaining Washer..... | 1 |
| 22 | S44717 | Chain Link Spacer..... | 1 |
| 23 | S48695 | 5 Frame Hitch..... | 1 |
| | S48694 | 3 Frame Hitch..... | 1 |
| 24 | W-63 | Hex Bolt - 3/4 x 3 Lg..... | 3 |
| 25 | W-480 | Hex Bolt - 3/8 x 2 1/2 Lg..... | 4 |
| 26 | W-489 | Hex Bolt - 1/2 x 2 1/4 Lg..... | 2 |
| 27 | W-490 | Hex Bolt - 1/2 x 2 1/2 Lg..... | 2 |
| 28 | W-514 | Hex Nut - 3/8 | 8 |
| 29 | W-518 | Hex Nut - 3/4 | 3 |
| 30 | W-523 | Lockwasher - 3/8..... | 8 |
| 31 | W-527 | Lockwasher - 3/4..... | 3 |
| 32 | W-538 | Washer - 7/16 ID x 1 OD | 8 |

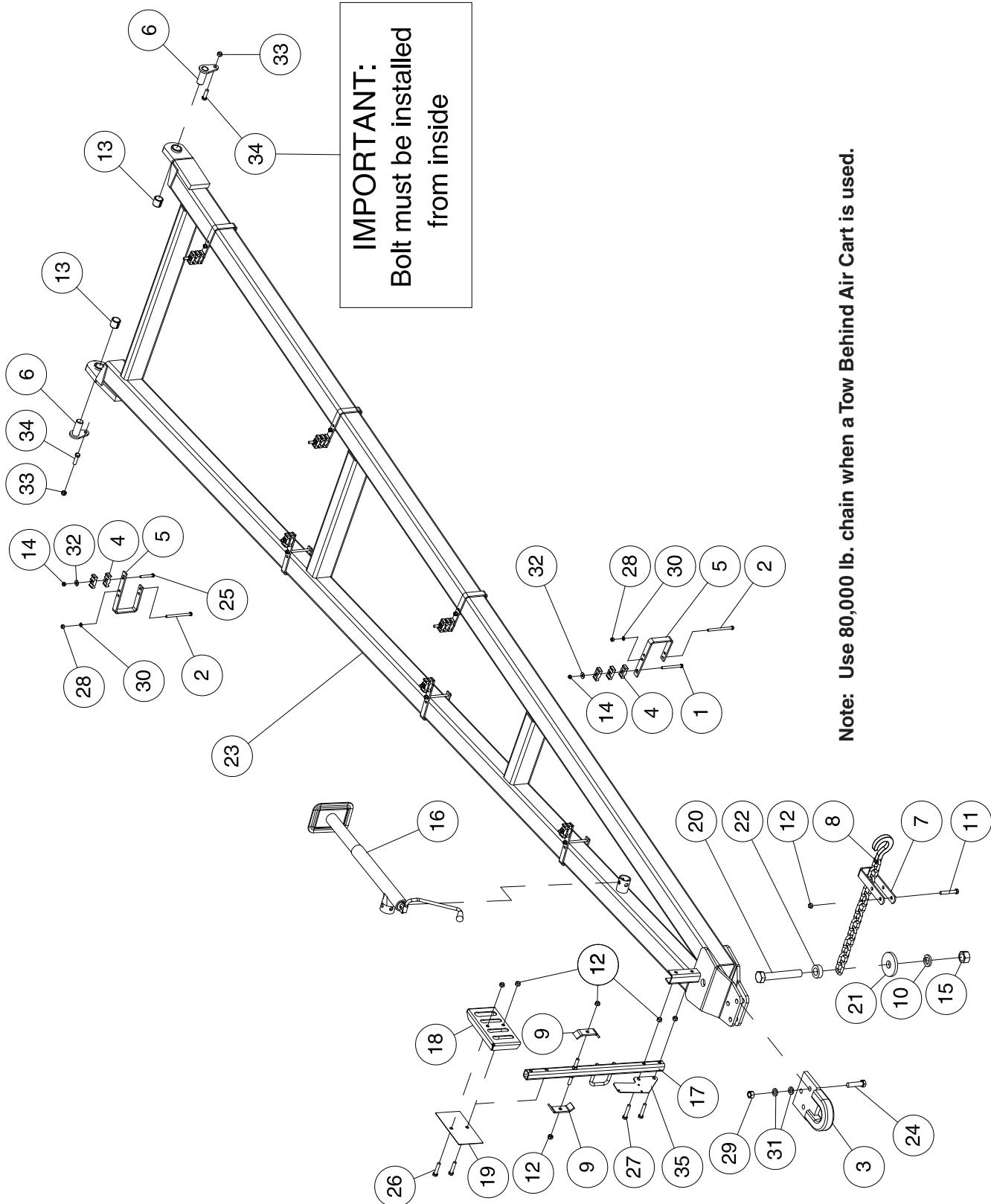
Prior to 2015 production year

40 ft Prior to Serial # RD40140421

50 ft Prior to Serial # RD50140510

60 ft Prior to Serial # RD60140619

Frames
Front Hitch - 2015 to present



Frames - Front Hitch - 2015 to present

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C-1550 | Hex Bolt - 3/8 x 4 Lg..... | 4 |
| 2 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 8 |
| 3 | C-4438 | Clevis | 1 |
| 4 | C-4698 | Oil Line Clamp | 20 |
| 5 | C14411 | Oil Line Bracket..... | 8 |
| 6 | S55909 | Pin- 1 1/2 Dia x 3 11/16 UL | 2 |
| 7 | C18758 | Safty Chain Intermed. Support..... | 1 |
| 8 | C18761 | Safety Chain - 40,000 Lb - Standard on 40 ft..... | 1 |
| | N44710 | Safety Chain - 80,000 Lb - Standard on 50 and 60 ft | 1 |
| 9 | C26321 | Hose Holder Clamp..... | 2 |
| 10 | C39432 | Lockwasher - 1 1/4..... | 1 |
| 11 | D-5519 | Hex Bolt - 1/2 x 3 1/4 Lg..... | 1 |
| 12 | F-3405 | Locknut - 1/2 Unitorque..... | 7 |
| 13 | S55309 | Spring Bushing - 1 1/2 ID x 1 7/8 OD x 1 3/4 Lg..... | 2 |
| 14 | M-3388 | Locknut - 3/8 Unitorque..... | 8 |
| 15 | P61D20 | Hex Nut - 1 1/4..... | 1 |
| 16 | S39391 | Top Wind Jack | 1 |
| 17 | S39665 | Hose Holder Stand..... | 1 |
| 18 | S39666 | Hydraulic Hose Holder Plate - 4 Slot - Single Fan..... | 1 |
| | S62722 | Hydraulic Hose Holder Plate - 5 Slot - Dual Fan | |
| 19 | S39669 | Back Plate - 4 Slot - Single Fan | 1 |
| | S62723 | Back Plate - 5 Slot - Dual Fan | |
| 20 | S44715 | Hex Bolt - 1 1/4 x 8 Lg..... | 1 |
| 21 | S44716 | Retaining Washer..... | 1 |
| 22 | S44717 | Chain Link Spacer..... | 1 |
| 23 | S55916 | Hitch - 40 ft..... | 1 |
| | S55917 | Hitch - 50 & 60 ft | 1 |
| 24 | 11576 | Hex Bolt - 3/4 x 3 1/2 Lg Grade 8 | 3 |
| 25 | W-480 | Hex Bolt - 3/8 x 2 1/2 Lg..... | 4 |
| 26 | W-489 | Hex Bolt - 1/2 x 2 1/4 Lg..... | 2 |
| 27 | W-490 | Hex Bolt - 1/2 x 2 1/2 Lg..... | 2 |
| 28 | W-514 | Hex Nut - 3/8 | 8 |
| 29 | D-5273 | Lock Nut - 3/4..... | 3 |
| 30 | W-523 | Lockwasher - 3/8..... | 8 |
| 31 | W-476 | Flat Washer - 13/16 ID x 1 7/16 OD x 11GA | 6 |
| 32 | W-538 | Washer - 7/16 ID x 1 OD | 8 |
| 33 | S-1197 | Locknut - 5/8 Unitorque..... | 2 |
| 34 | W-499 | Hex Bolt - 5/8 x 2 Lg..... | 2 |
| 35 | N58671 | Plate - Case Drain Header Mount (Tow Behind Air Cart only) | 1 |

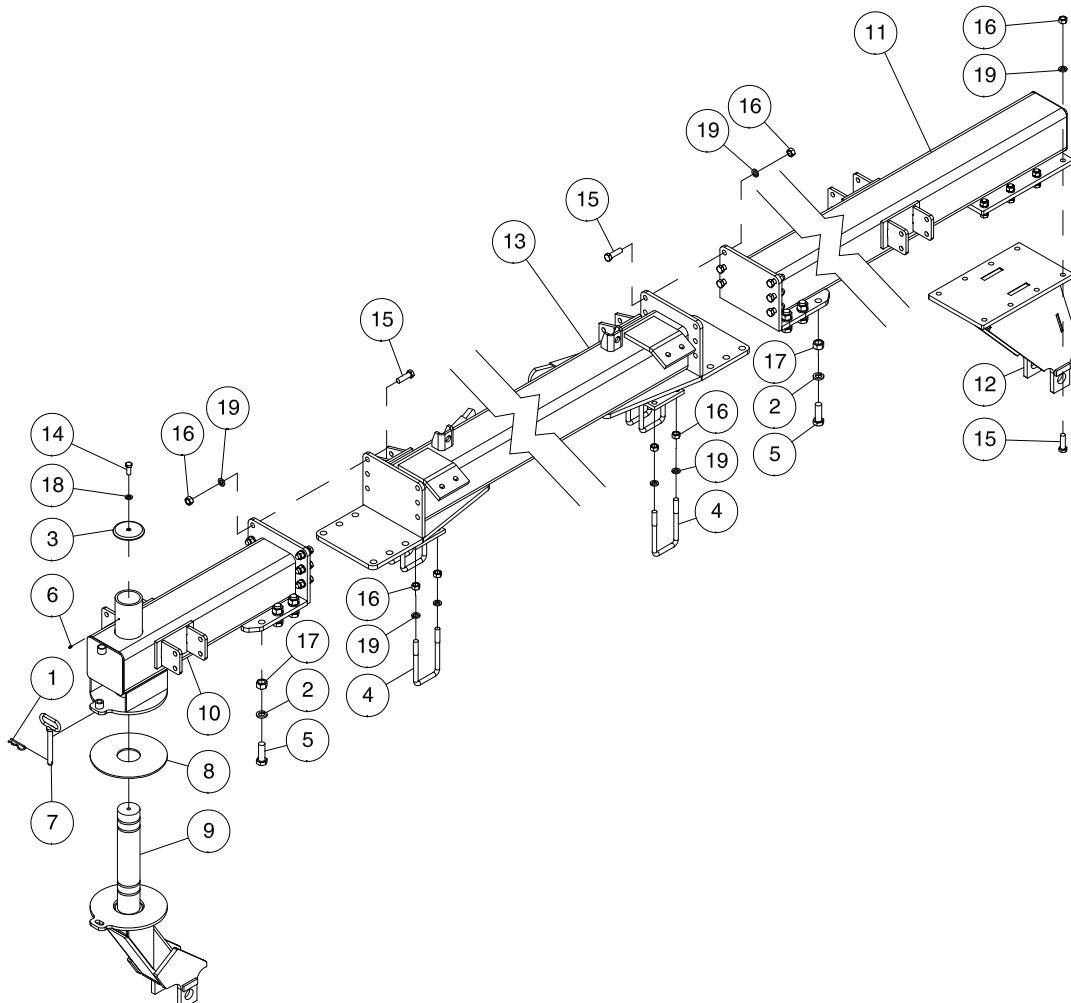
2015 production year to present

40 ft Serial # RD40150425 and newer

50 ft Serial # RD50150515 and newer

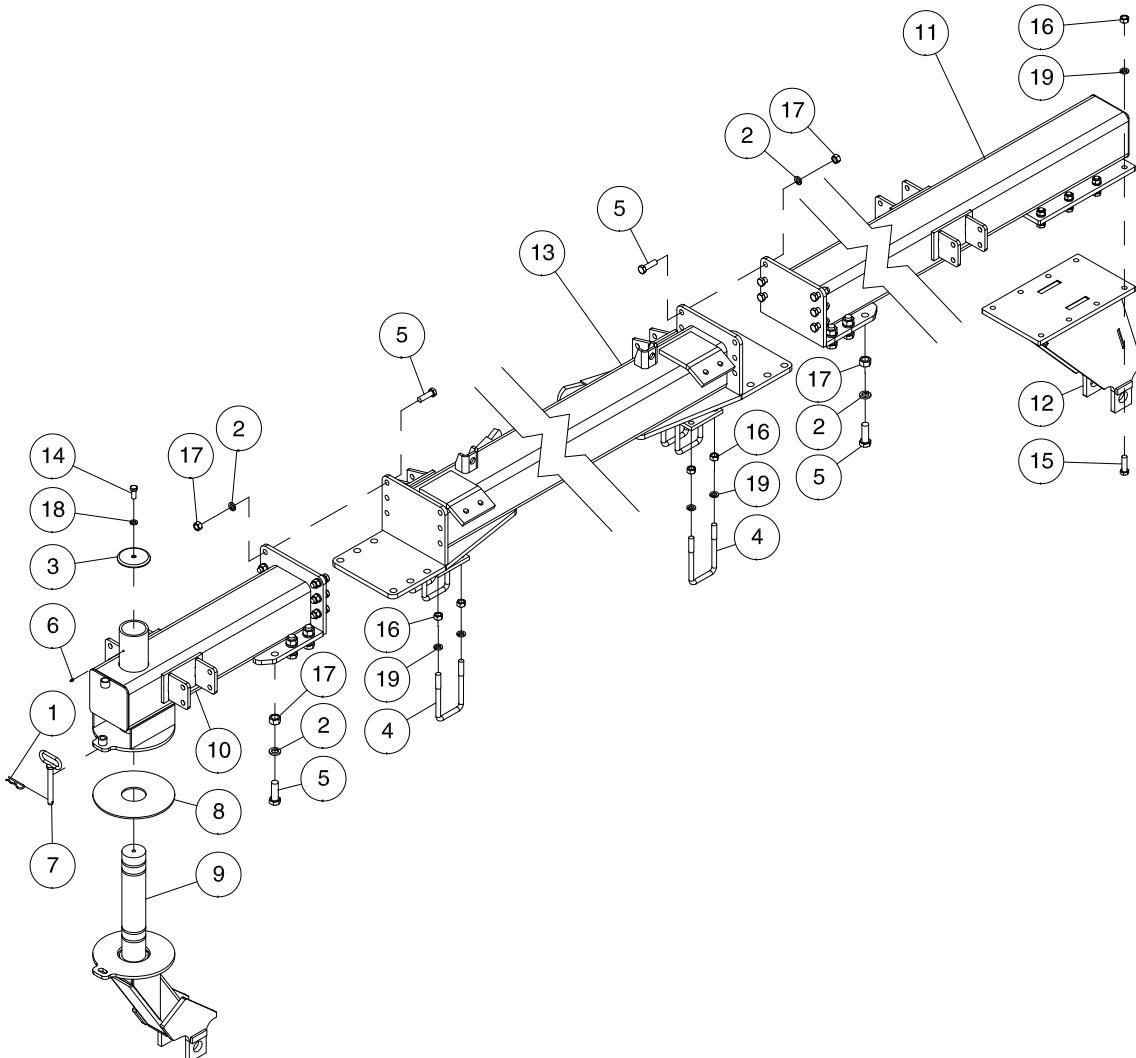
60 ft Serial # RD60150631 and newer

Frame
Main Frame 40ft Depth Beam



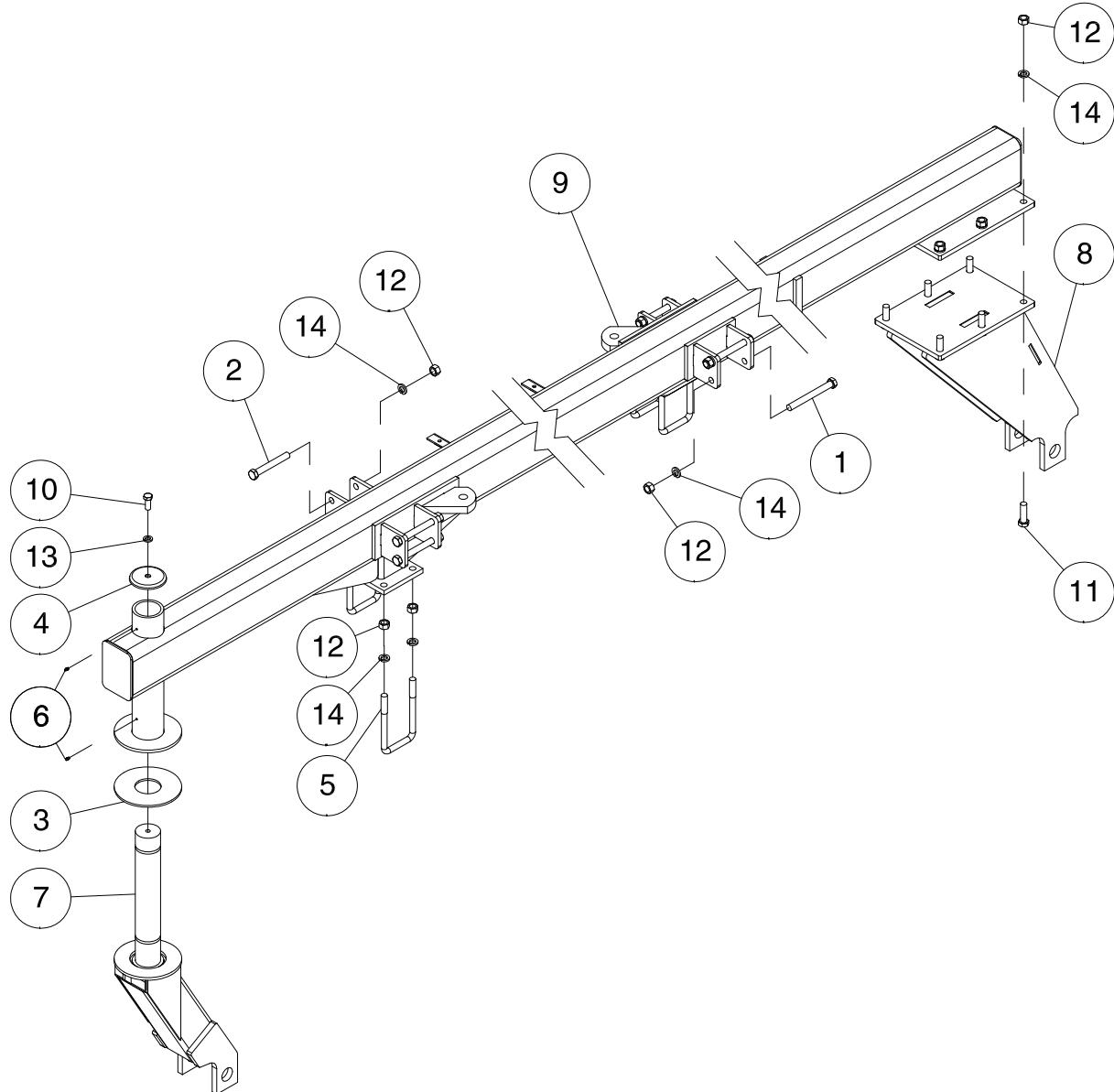
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | BW-11 | Hairpin - 3/16..... | 1 |
| 2 | C-705 | Lockwasher - 1 | 12 |
| 3 | C18781 | Cap - 3-1/2" | 1 |
| 4 | C26955 | U-Bolt - 3/4 x 4 x 8 | 6 |
| 5 | J12344 | Hex Bolt - 1 x 3 Lg..... | 12 |
| 6 | S-752 | Straight Grease Zerk - 1/4..... | 2 |
| 7 | S33404 | Auger Lock Pin..... | 1 |
| 8 | S39728 | Wear Plate..... | 1 |
| 9 | S44309 | Offset Castor HD - Main - 12.5 Tire | 1 |
| | S53265 | Offset Castor HD - Main - 16.5 Tire | 1 |
| 10 | S51010 | Main Front Depth Tube - 12.5 Tire..... | 1 |
| | S45902 | Main Front Depth Tube - 16.5 Tire..... | 1 |
| 11 | S45903 | Rear Main Depth Tube..... | 1 |
| 12 | S51020 | Rear Main Axle Mount - 12.5 Tire | 1 |
| | S53264 | Rear Main Axle Mount - 16.5 Tire | 1 |
| 13 | S47578 | Center Main Depth Tube..... | 1 |
| 14 | W-497 | Hex Bolt - 5/8 x 1 1/2 Lg..... | 1 |
| 15 | W-509 | Hex Bolt - 3/4 x 2 1/2 Lg..... | 20 |
| 16 | W-518 | Hex Nut - 3/4 | 33 |
| 17 | W-520 | Hex Nut - 1 | 12 |
| 18 | W-526 | Lockwasher - 5/8..... | 1 |
| 19 | W-527 | Lockwasher - 3/4..... | 32 |

Frame
Main Frame 50ft & 60ft Depth Beam



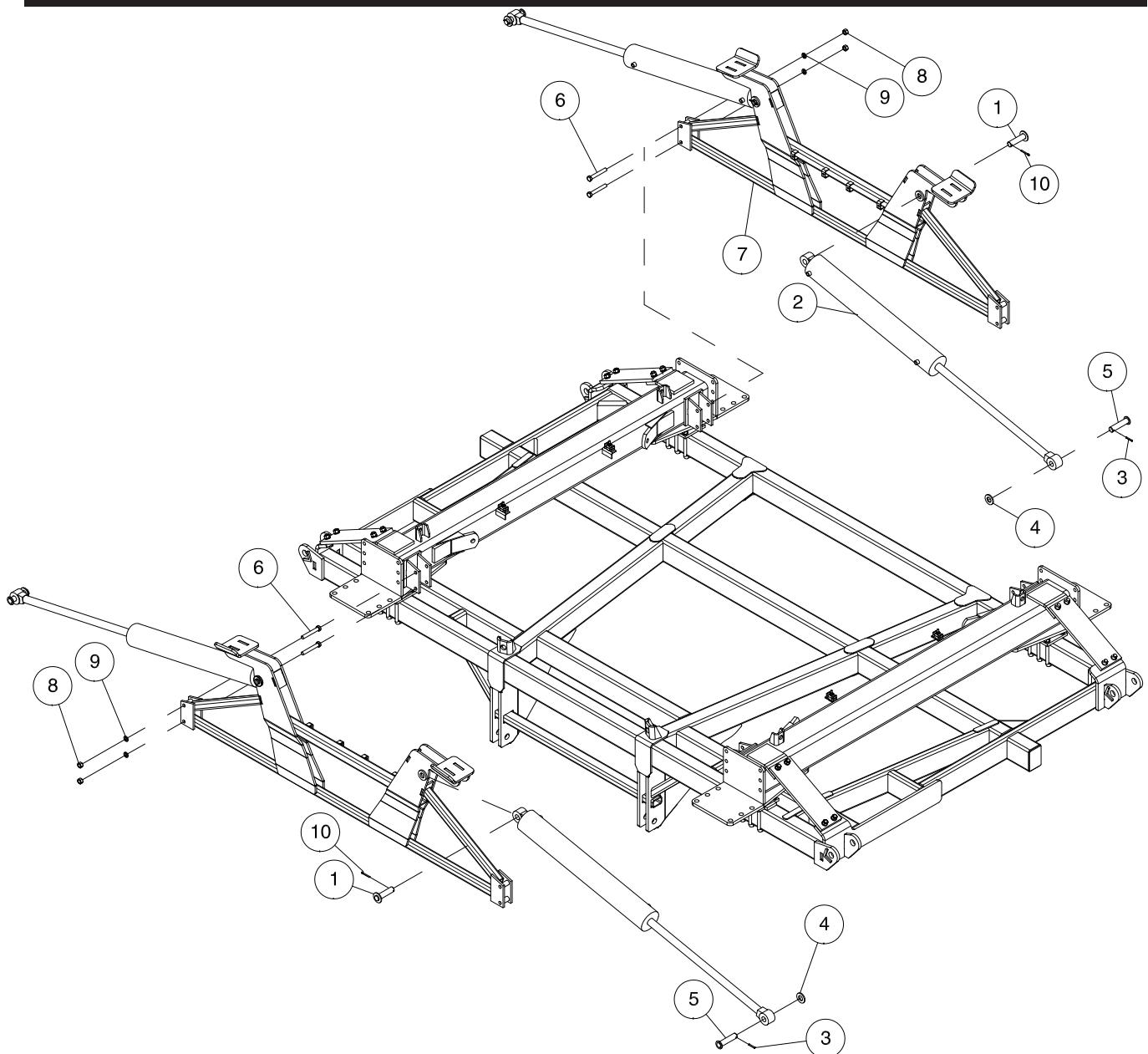
| Item | Part No. | Description | Qty |
|------|----------|-----------------------------------|-----|
| 1 | BW-11 | Hairpin - 3/16..... | 1 |
| 2 | C-705 | Lockwasher - 1 | 24 |
| 3 | C18781 | Cap - 3-1/2" | 1 |
| 4 | C26955 | U-Bolt - 3/4 x 4 x 8 | 6 |
| 5 | J12344 | Hex Bolt - 1 x 3 Lg..... | 24 |
| 6 | S-752 | Straight Grease Zerk - 1/4..... | 2 |
| 7 | S33404 | Auger Lock Pin..... | 1 |
| 8 | S39728 | Wear Plate..... | 1 |
| 9 | S53265 | Offset Castor HD - Main | 1 |
| 10 | S51320 | Main Heavy Front Depth Tube | 1 |
| 11 | S51322 | Rear Heavy Main Depth Tube..... | 1 |
| 12 | S53264 | Rear Main Axle Mount..... | 1 |
| 13 | S51321 | Center Heavy Main Depth Tube..... | 1 |
| 14 | W-497 | Hex Bolt - 5/8 x 1-1/2 Lg | 1 |
| 15 | W-509 | Hex Bolt - 3/4 x 2-1/2 Lg | 8 |
| 16 | W-518 | Hex Nut - 3/4 | 21 |
| 17 | W-520 | Hex Nut - 1 | 24 |
| 18 | W-526 | Lockwasher - 5/8..... | 1 |
| 19 | W-527 | Lockwasher - 3/4..... | 20 |

**Frame
Wing Depth Beam**



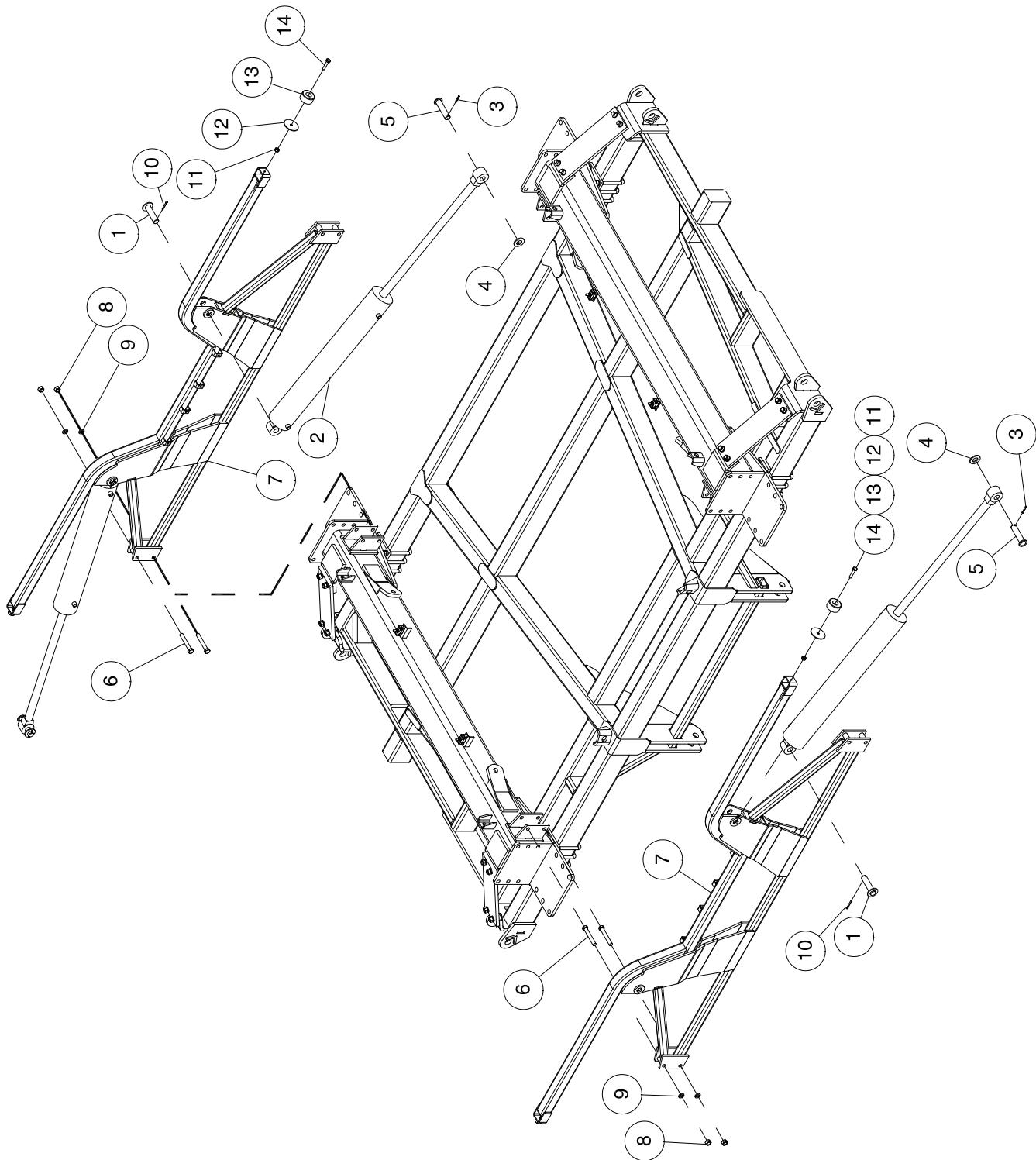
| Item | Part No. | Description | Qty |
|------|----------|-----------------------------------|-----|
| 1 | C-3917 | Hex Bolt - 3/4 x 7 Lg Gr5..... | 4 |
| 2 | C-3919 | Hex Bolt - 3/4 x 5 1/2 Lg..... | 4 |
| 3 | C18662 | Wear Plate..... | 1 |
| 4 | C18782 | Cap - 3" | 1 |
| 5 | C26955 | U-Bolt - 3/4 x 4 x 8 | 4 |
| 6 | S-752 | Straight Grease Zerk - 1/4" | 2 |
| 7 | S45720 | Offset Castor - Wing | 1 |
| 8 | S47084 | Rear Axle Wing Depth Beams..... | 1 |
| 9 | S49976 | Depth Tube - Left Wing | 1 |
| | S49975 | Depth Tube - Right Wing..... | 1 |
| 10 | W-497 | Hex Bolt - 5/8 x 1-1/2 Lg..... | 1 |
| 11 | W-509 | Hex Bolt - 3/4 x 2-1/2 Lg | 6 |
| 12 | W-518 | Hex Nut - 3/4 | 22 |
| 13 | W-526 | Lockwasher - 5/8..... | 1 |
| 14 | W-527 | Lockwasher - 3/4..... | 22 |

Frame
Main Frame Wing Lift - 40 and 60 ft



| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C26715 | Pin - 1-1/4 Dia x 4-3/8 UL..... | 4 |
| 2 | C39030 | Hydraulic Cylinder - 4 1/2 x 36 - 40 ft | 4 |
| | C39490 | Hydraulic Cylinder - 5 x 36 - 50 and 60 ft | 4 |
| 3 | D-5244 | Spiral Pin - 1/4 x 2..... | 4 |
| 4 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 4 |
| 5 | N28998 | Pin - 1-1/4 Dia x 4-3/4 UL..... | 4 |
| 6 | S-1191 | Hex Bolt - 3/4 x 5 Lg..... | 8 |
| 7 | S47544 | Main Wing Lift Truss..... | 2 |
| 8 | W-518 | Hex Nut - 3/4 | 8 |
| 9 | W-527 | Lockwasher - 3/4..... | 8 |
| 10 | W-4181 | Cotter Pin - 1/4 x 2 Lg | 4 |

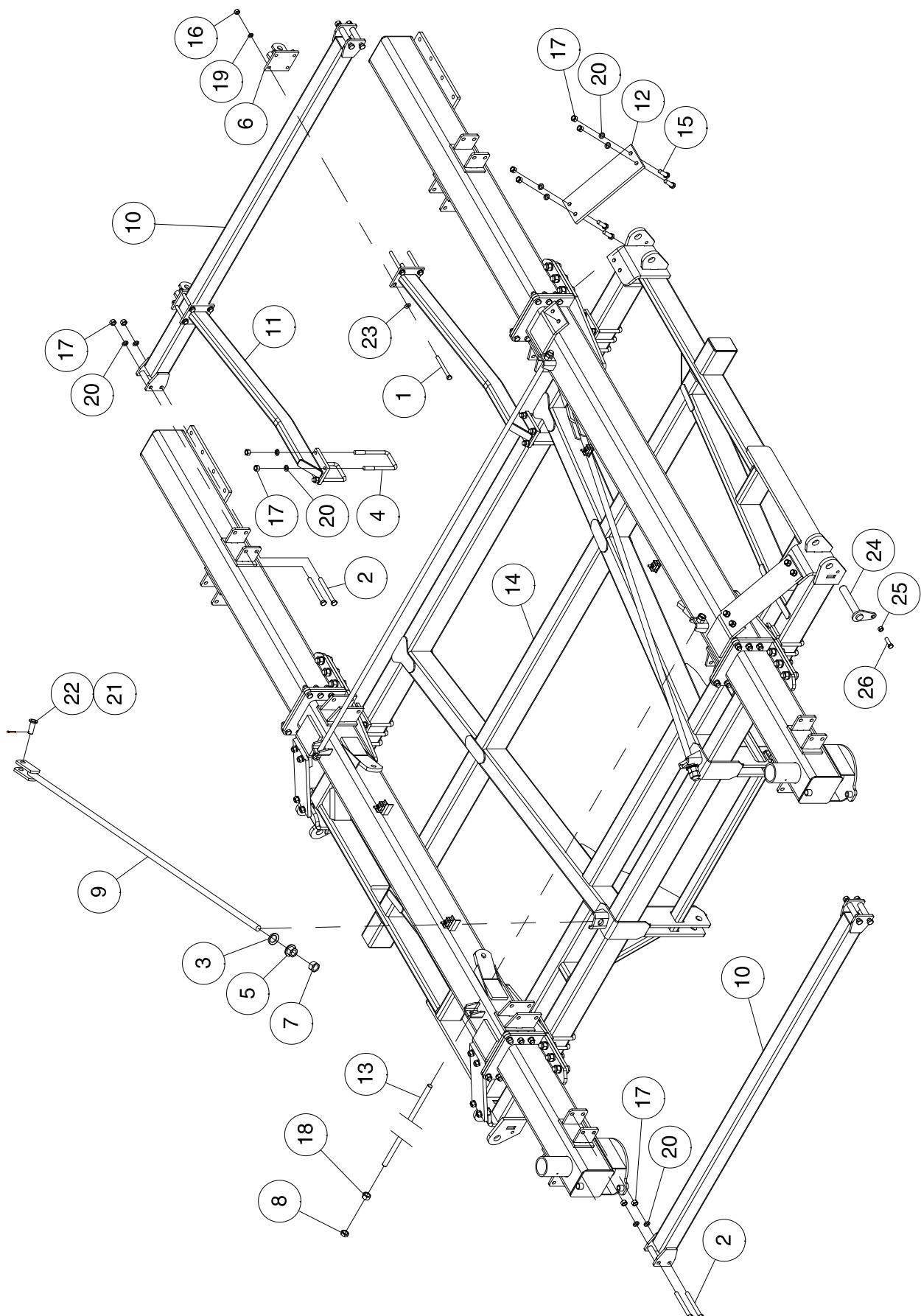
Frame
Main Frame Wing Lift - 50ft



Frame - Main Frame Wing Lift - 50ft

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | C26715 | Pin - 1-1/4 Dia x 4-3/8 UL..... | 4 |
| 2 | C39490 | Hydraulic Cylinder - 5 x 36 - 50 ft | 4 |
| 3 | D-5244 | Spiral Pin - 1/4 x 2..... | 4 |
| 4 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 4 |
| 5 | N28998 | Pin - 1-1/4 Dia x 4-3/4 UL..... | 4 |
| 6 | S-1191 | Hex Bolt - 3/4 x 5 Lg..... | 8 |
| 7 | S51511 | Main Wing Lift Truss - 50ft..... | 2 |
| 8 | W-518 | Hex Nut - 3/4 | 8 |
| 9 | W-527 | Lockwasher - 3/4..... | 8 |
| 10 | W-4181 | Cotter Pin - 1/4 x 2 Lg | 4 |
| 11 | N15757 | Locknut - 1/4 Unitorque..... | 4 |
| 12 | S-4747 | Washer - 9/32 ID x 1 3/4 OD | 4 |
| 13 | S22578 | Rubber Stopper..... | 4 |
| 14 | W-470 | Hex Bolt - 1/4 x 1 1/4 Lg..... | 4 |

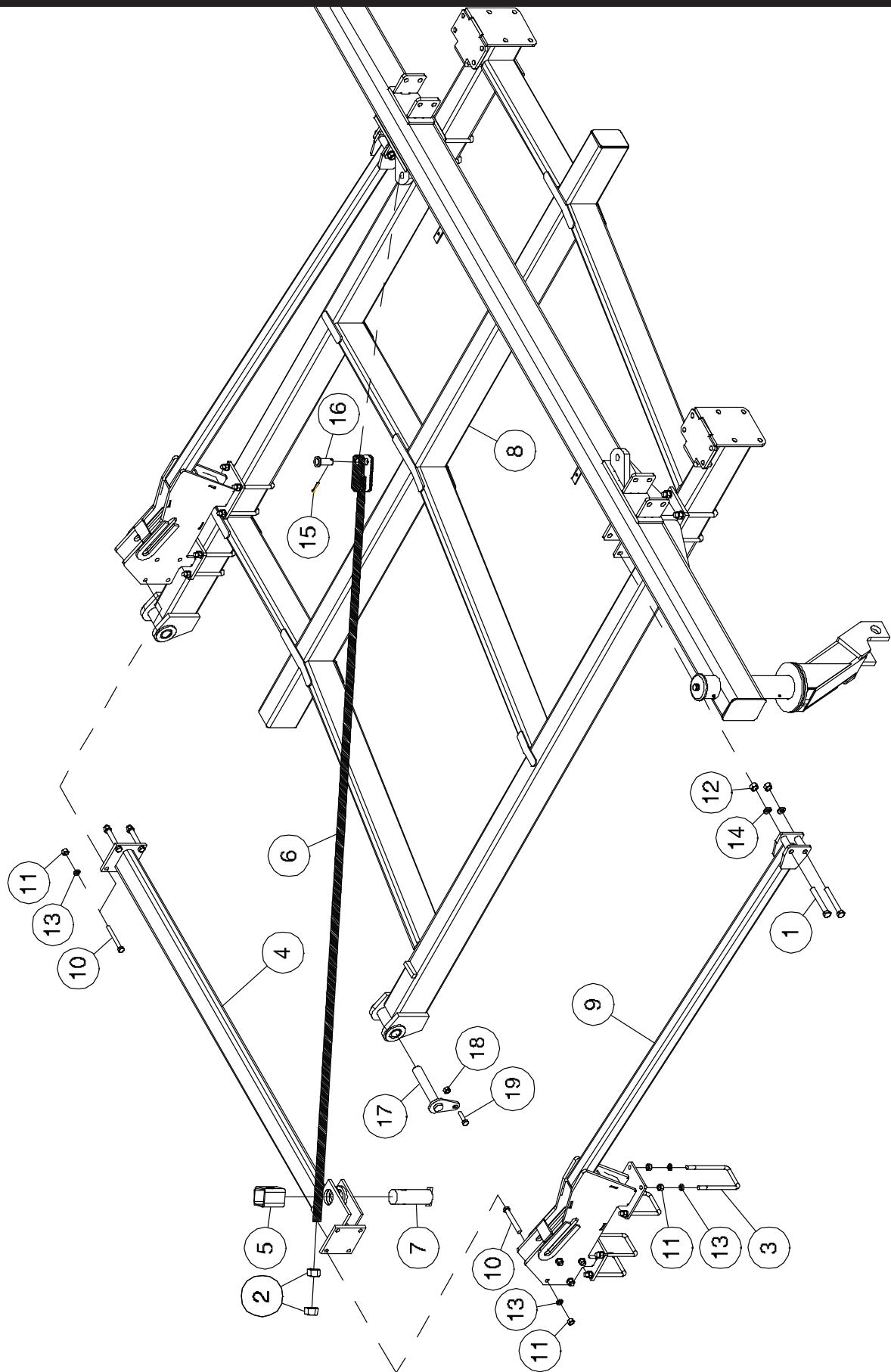
Frame
Main Frame



Frame - Main Frame

| Item | Part No. | Description | Qty |
|---|---------------|--|-----|
| 1 | C-507 | Hex Bolt - 5/8 x 6 Lg..... | 8 |
| 2 | C-3917 | Hex Head Bolt - 3/4 x 7 Lg | 8 |
| 3 | C15767 | Spherical Washer - 2 1/2 Dia | 2 |
| 4 | C26955 | U-Bolt - 3/4 x 4 x 8 | 4 |
| 5 | C31361 | Spherical Nut - 1 1/4 | 2 |
| 6 | N19203 | Mounting Bracket | 2 |
| 7 | P61D20 | Hex Nut - 1 1/4 | 2 |
| 8 | S-711 | Hex Jam Nut - 1 | 2 |
| 9 | S42649 | Tie Rod..... | 2 |
| 10 | S47580 | Rear Hitch Cross Member..... | 2 |
| 11 | S47582 | Rear Tow Hitch Brace | 2 |
| 12 | S48572 | Brace Plate..... | 4 |
| 13 | S49881 | Truss Rod - 1 Dia x 122 Lg | 2 |
| 14 | S50490 | Main Frame - 1 3/8 Dia Hitch Pins - Prior to 2015 | 1 |
| | S55912 | Main Frame - 1 1/2 Dia Hitch Pins - 2015 production year to present | |
| 15 | W-509 | Hex Bolt - 3/4 x 2 1/2 Lg..... | 16 |
| 16 | W-517 | Hex Nut - 5/8 | 16 |
| 17 | W-518 | Hex Nut - 3/4 | 32 |
| 18 | W-520 | Hex Nut - 1 | 4 |
| 19 | W-526 | Lockwasher - 5/8..... | 8 |
| 20 | W-527 | Lockwasher - 3/4..... | 32 |
| 21 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 2 |
| 22 | W-558 | Pin - 1 Dia x 2 1/4 UL..... | 2 |
| 23 | W-629 | Flat Washer - 5/8..... | 8 |
| 24 | S51278 | Pin - Main Hinge - 1 1/2 Dia x 8 1/4 UL | 4 |
| 25 | S-1197 | Locknut - 5/8 | 4 |
| 26 | W-499 | Hex Bolt - 5/8 x 2 Lg..... | 4 |
| Prior to 2015 production year - S50490 Main Frame | | | |
| <ul style="list-style-type: none"> - 40 ft Prior to Serial # RD40140421 - 50 ft Prior to Serial # RD50140510 - 60 ft Prior to Serial # RD60140619 | | | |
| 2015 production year to present - S55912 Main Frame | | | |
| <ul style="list-style-type: none"> - 40 ft Serial # RD40150425 and newer - 50 ft Serial # RD50150515 and newer - 60 ft Serial # RD60150631 and newer | | | |

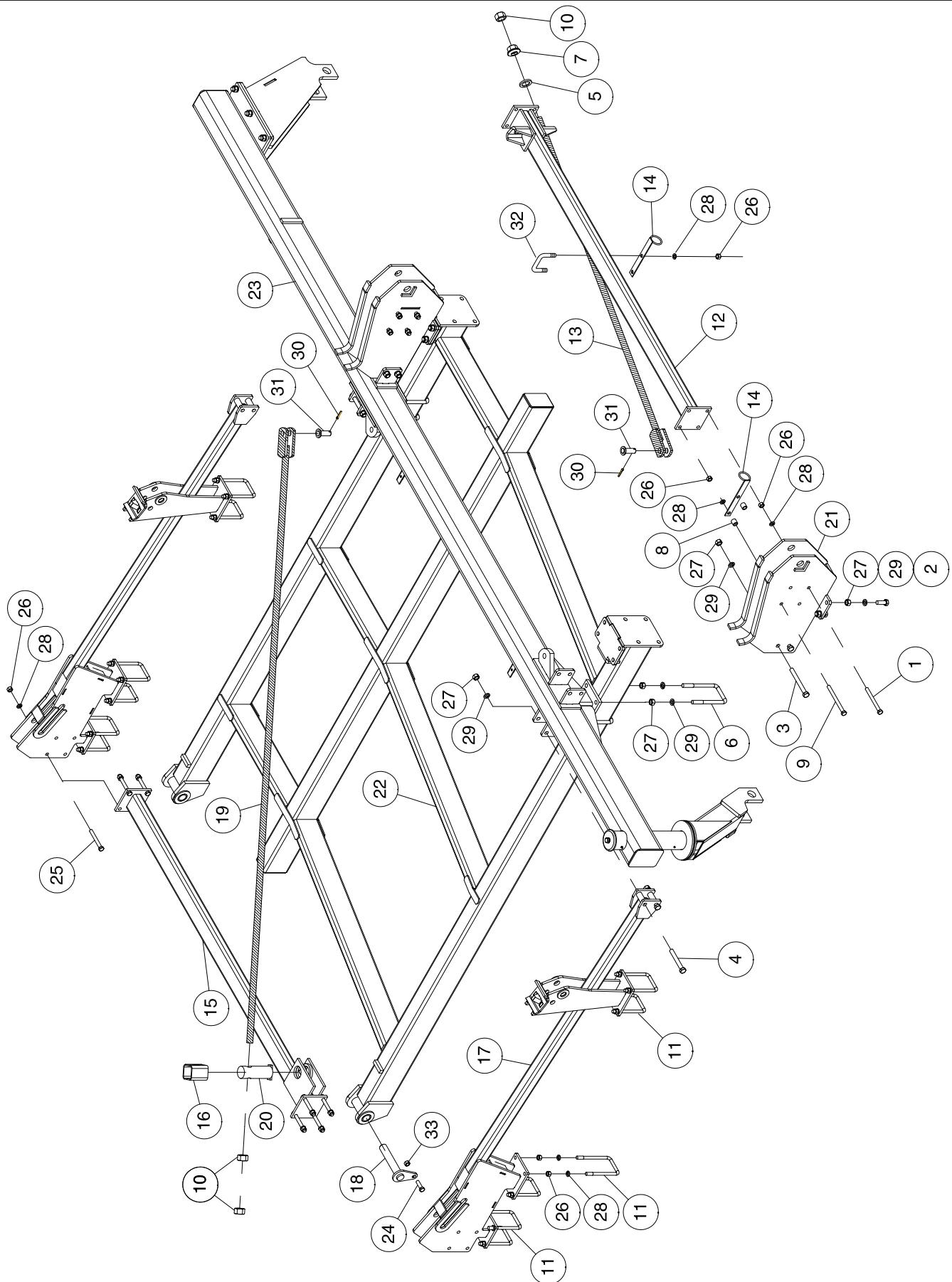
**Frame
40ft Wing**



Frame - 40ft Wing

| Item | Part No. | Description | Qty |
|----------|---------------|--|--------------|
| 1 | C-3919 | Hex Bolt - 3/4 x 5 1/2 Lg..... | 4 |
| 2 | P61D20 | Hex Nut - 1 1/4 | 2 |
| 3 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 8 |
| 4 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used to mount opener to wing truss mounts..... | AsReq |
| 5 | S44981 | Support Beam | 1 |
| 6 | S44984 | Spacer Tube | 1 |
| 7 | S47588 | Tie Rod - 1 1/4 Dia x 124 Lg | 1 |
| 8 | S47655 | Tie Rod Pin | 1 |
| 9 | S49961 | Wing - Left..... | 1 |
| 10 | S49962 | Wing - Right | 1 |
| 11 | S51425 | Winglift - 40 Ft..... | 2 |
| 12 | W-506 | Hex Bolt - 5/8 x 5 Lg..... | 8 |
| 13 | W-517 | Hex Nut - 5/8 | 24 |
| 14 | W-518 | Hex Nut - 3/4 | 4 |
| 15 | W-526 | Lockwasher - 5/8..... | 24 |
| 16 | W-527 | Lockwasher - 3/4..... | 4 |
| 17 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 1 |
| 18 | W-558 | Pin - 1 Dia x 2-1/4 UL..... | 1 |
| 19 | S51278 | Pin - Main Hinge - 1 1/2 Dia x 8 1/4 UL | 2 |
| 20 | S47586 | Hinge Pin - 1 1/2 Dia x 7 13/16 UL - Prior to July 2013 (Use T-5245 - Spiral Pin - 3/8 x 2 1/2 Lg) | |
| | S-1197 | Locknut - 5/8 | 2 |
| | W-499 | Hex Bolt - 5/8 x 2 Lg..... | 2 |
| | S51230 | Extension Stub - 12 3/4 Lg - (7 1/2 and 15 spacing)..... | 2 |

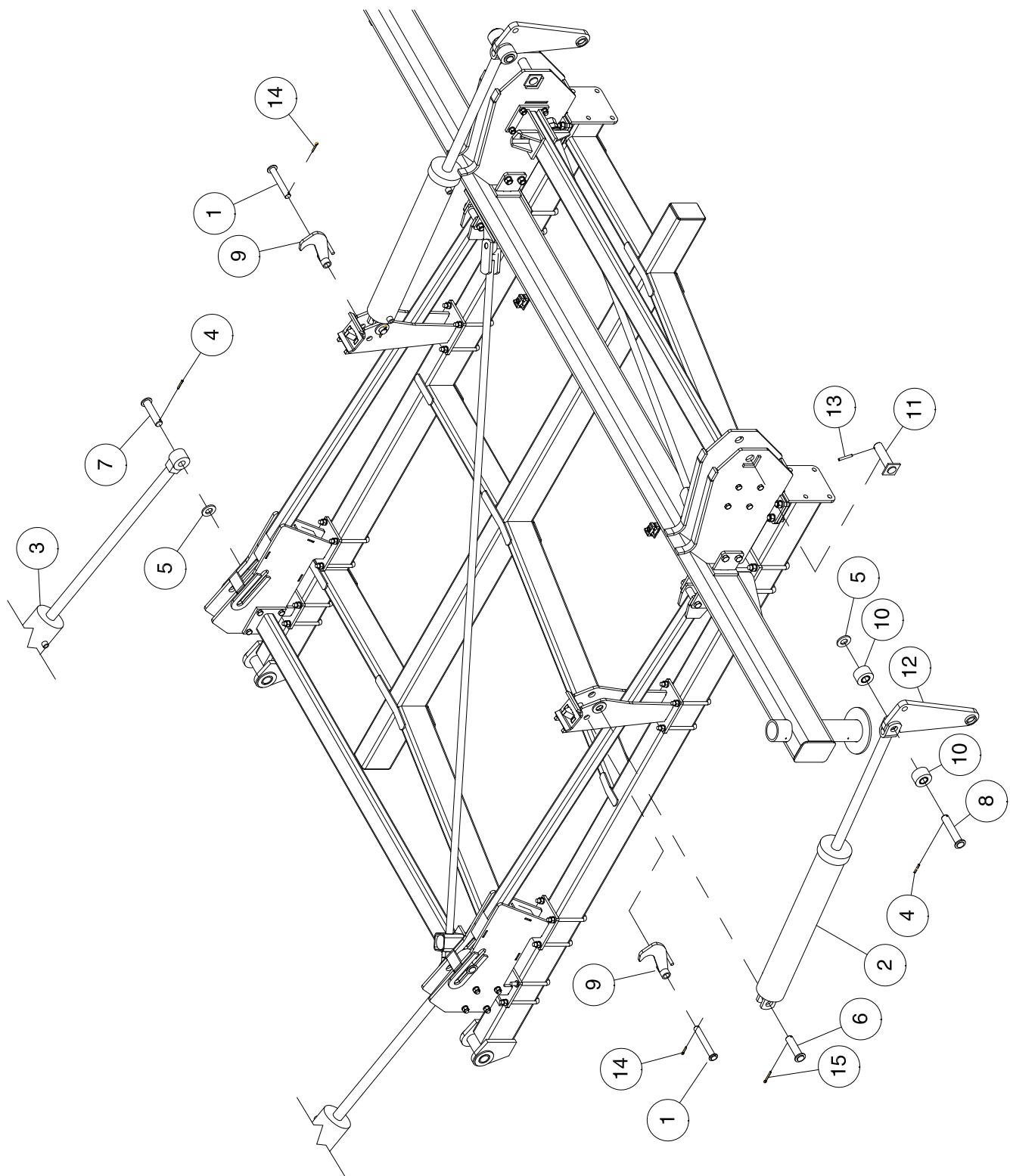
Frame 50ft & 60 ft Inner Wing



Frame - 50ft & 60 ft Inner Wing

| Item | Part No. | Description | Qty |
|------|---------------|--|-------|
| 1 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 4 |
| 2 | C-695 | Hex Bolt - 3/4 x 2 Lg..... | 8 |
| 3 | C-3917 | Hex Head Bolt - 3/4 x 7 Lg | 4 |
| 4 | C-3919 | Hex Bolt - 3/4 x 5 1/2 Lg..... | 4 |
| 5 | C15767 | Spherical Washer - 2 1/2 Dia | 1 |
| 6 | C26955 | U-Bolt - 3/4 x 4 x 8 | 4 |
| 7 | C31361 | Spherical Nut - 1 1/4 | 1 |
| 8 | H27972 | Bushing - 1 OD x .640 ID | 4 |
| 9 | P1C101 | Hex Bolt - 5/8 x 7 1/2 Lg..... | 4 |
| 10 | P61D20 | Hex Nut - 1 1/4 | 3 |
| 11 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 12 |
| 12 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used to mount opener to wing truss mounts..... | AsReq |
| 13 | S42849 | Support Beam | 1 |
| 14 | S42987 | Tie Rod - 1 1/4 Dia x 80 1/2 Lg | 1 |
| 15 | S44313 | Hose Holder | 2 |
| 16 | S44981 | Support Beam | 1 |
| 17 | S44984 | Spacer Tube | 1 |
| 18 | S47551 | Inner Winglift | 2 |
| 19 | S51278 | Pin - Main Hinge - 1 1/2 Dia x 8 1/4 UL | 2 |
| 20 | S47586 | Hinge Pin - 1 1/2 Dia x 7 13/16 UL - Prior to July 2013 (Use T-5245 - Spiral Pin - 3/8 x 2 1/2 Lg) | |
| 21 | S47588 | Tie Rod - 1 1/4 Dia x 124 Lg | 1 |
| 22 | S47655 | Tie Rod Pin | 1 |
| 23 | S48566 | Outer Winglift Hinge Bracket | 2 |
| 24 | S49961 | Wing - Left | 1 |
| 25 | S49962 | Wing - Right | 1 |
| 26 | S49976 | Left Wing Depth Tube | 1 |
| 27 | W-499 | Hex Bolt - 5/8 x 2 Lg..... | 2 |
| 28 | W-506 | Hex Bolt - 5/8 x 5 Lg..... | 8 |
| 29 | W-517 | Hex Nut - 5/8 | 40 |
| 30 | W-518 | Hex Nut - 3/4 | 20 |
| 31 | W-526 | Lockwasher - 5/8..... | 40 |
| 32 | W-527 | Lockwasher - 3/4..... | 16 |
| 33 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 2 |
| 34 | W-558 | Pin - 1 Dia x 2-1/4 UL..... | 2 |
| 35 | C-4569 | U-Bolt - 5/8 x 4 1/32 x 3 1/4 | 1 |
| 36 | S-1197 | Locknut - 5/8 | 2 |

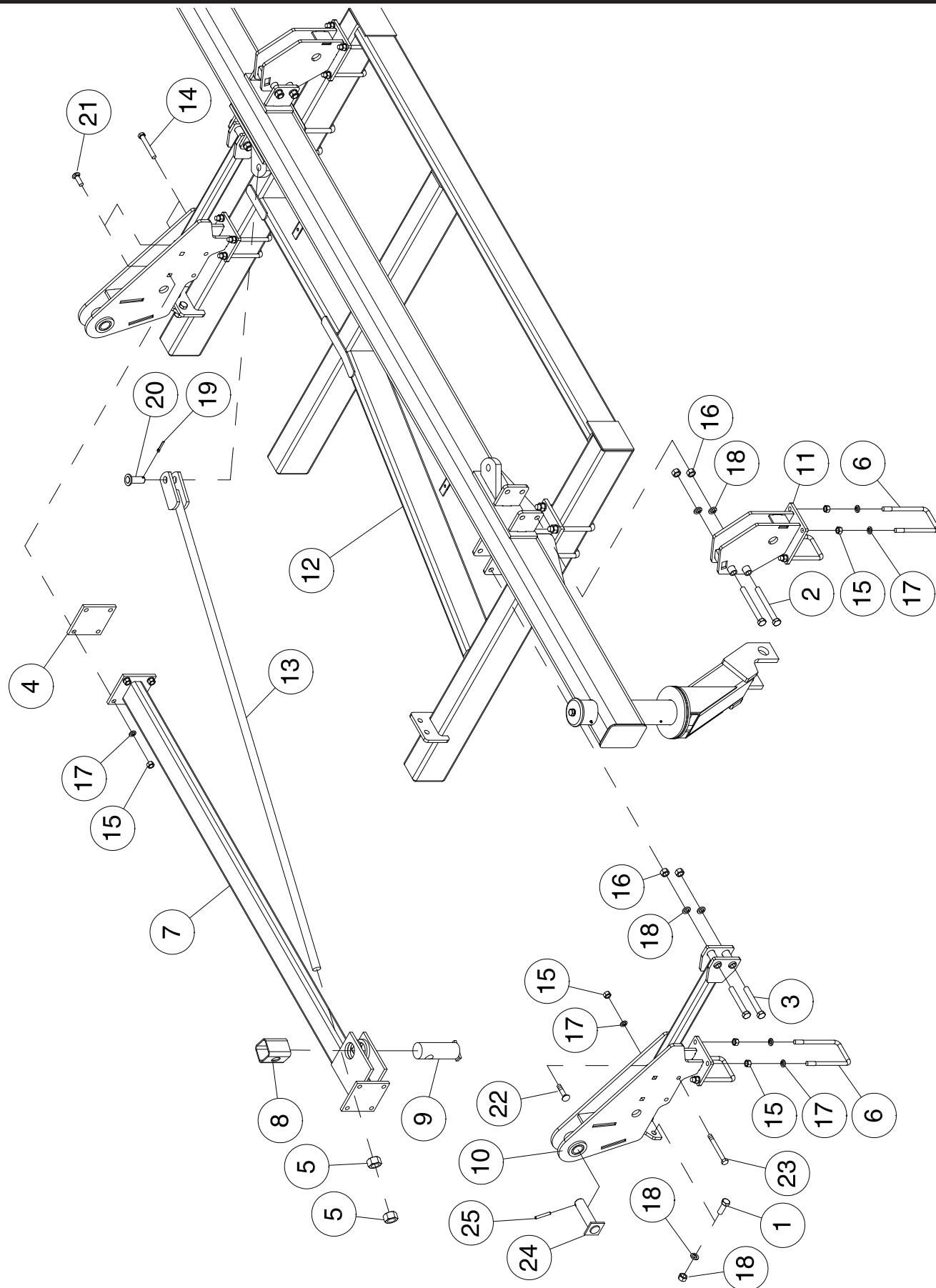
**Frame
50ft & 60ft - Inner Wing Lift**



Frame - 50ft & 60ft - Inner Wing Lift

| Item | Part No. | Description | Qty |
|-------------|-----------------|---|------------|
| 1 | C26844 | Pin - 1 Dia x 6-1/8 UL..... | 2 |
| 2 | C34442 | Cylinder - 4 1/2 x 30..... | 2 |
| 3 | C39490 | Cylinder - 5 x 36 Stroke..... | 2 |
| 4 | D-5244 | Spiral Pin - 1/4 x 2..... | 4 |
| 5 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 4 |
| 6 | N28994 | Pin - 1 1/4 Dia x 4 1/4 UL..... | 2 |
| 7 | N28998 | Pin - 1 1/4 Dia x 4 3/4 UL..... | 2 |
| 8 | N33874 | Pin - 1 1/4 Dia x 6 3/16 UL..... | 2 |
| 9 | S39443 | Transport Gravity Lock Hook | 2 |
| 10 | S39570 | Outer Wing Lift Roller | 4 |
| 11 | S42822 | Pin - 1 1/2 x 5 1/8 UL | 2 |
| 12 | S48591 | Outer Winglift Lever..... | 2 |
| 13 | T-5245 | Spiral Pin - 3/8 x 2 1/2..... | 2 |
| 14 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 2 |
| 15 | W-4181 | Cotter Pin - 1/4 x 2 Lg | 2 |

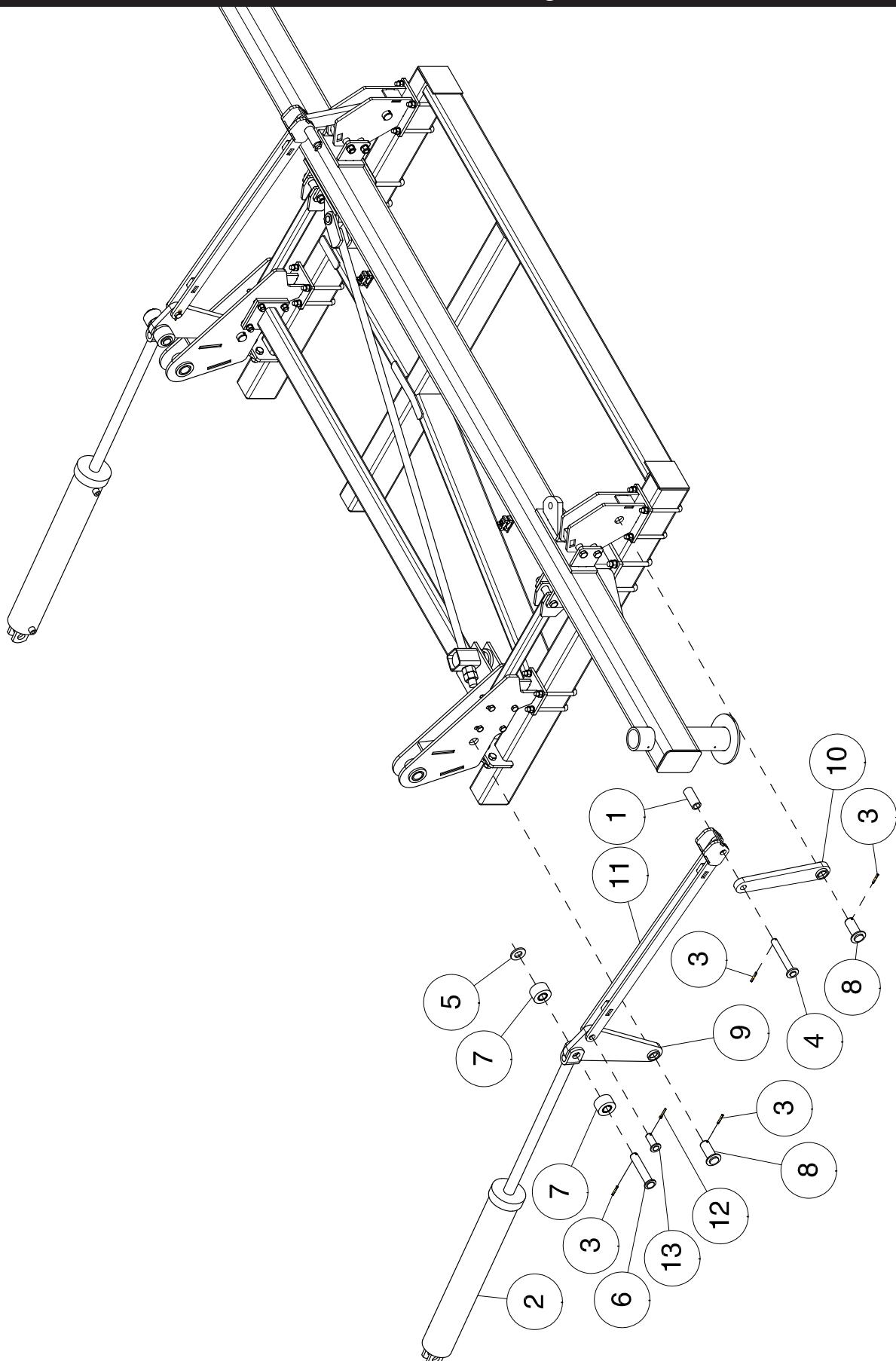
**Frame
50ft Outer Wing**



Frame - 50ft Outer Wing

| Item | Part No. | Description | Qty |
|----------|---------------|---|--------------|
| 1 | C-695 | Hex Bolt - 3/4 x 2 Lg..... | 4 |
| 2 | C-3917 | Hex Head Bolt - 3/4 x 7 Lg | 4 |
| 3 | C-3919 | Hex Bolt - 3/4 x 5 1/2 Lg..... | 4 |
| 4 | F10542 | Center Mounting Plate | 1 |
| 5 | P61D20 | Hex Nut - 1 1/4 | 2 |
| 6 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 8 |
| 7 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used to mount opener to wing truss mounts..... | AsReq |
| 8 | S44981 | Support Beam | 1 |
| 9 | S44984 | Spacer Tube | 1 |
| 10 | S47655 | Tie Rod Pin | 1 |
| 11 | S51283 | Wing Lift Truss | 2 |
| 12 | S51284 | Wing Lift | 2 |
| 13 | S51371 | Outer Wing - Left | 1 |
| 14 | S51372 | Outer Wing - Right | 1 |
| 15 | S42649 | Tie Rod - 1 1/4 Dia x 84 1/2 Lg | 1 |
| 16 | W-506 | Hex Bolt - 5/8 x 5 Lg..... | 8 |
| 17 | W-517 | Hex Nut - 5/8 | 24 |
| 18 | W-518 | Hex Nut - 3/4 | 12 |
| 19 | W-526 | Lockwasher - 5/8 | 24 |
| 20 | W-527 | Lockwasher - 3/4..... | 12 |
| 21 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 1 |
| 22 | W-558 | Pin - 1 Dia x 2 1/4 UL..... | 1 |
| 23 | N33594 | Carriage Bolt - 5/8 x 2 1/4 Lg | 2 |
| 24 | T-5268 | Carriage Bolt - 5/8 x 2 Lg | 2 |
| 25 | C-852 | Hex Bolt 5/8 x 4 1/2 Lg..... | 2 |
| | S42822 | Pin - 1 1/2 x 5 1/8 UL | 2 |
| | T-5245 | Spiral Pin - 3/8 x 2 1/2 Lg..... | 2 |

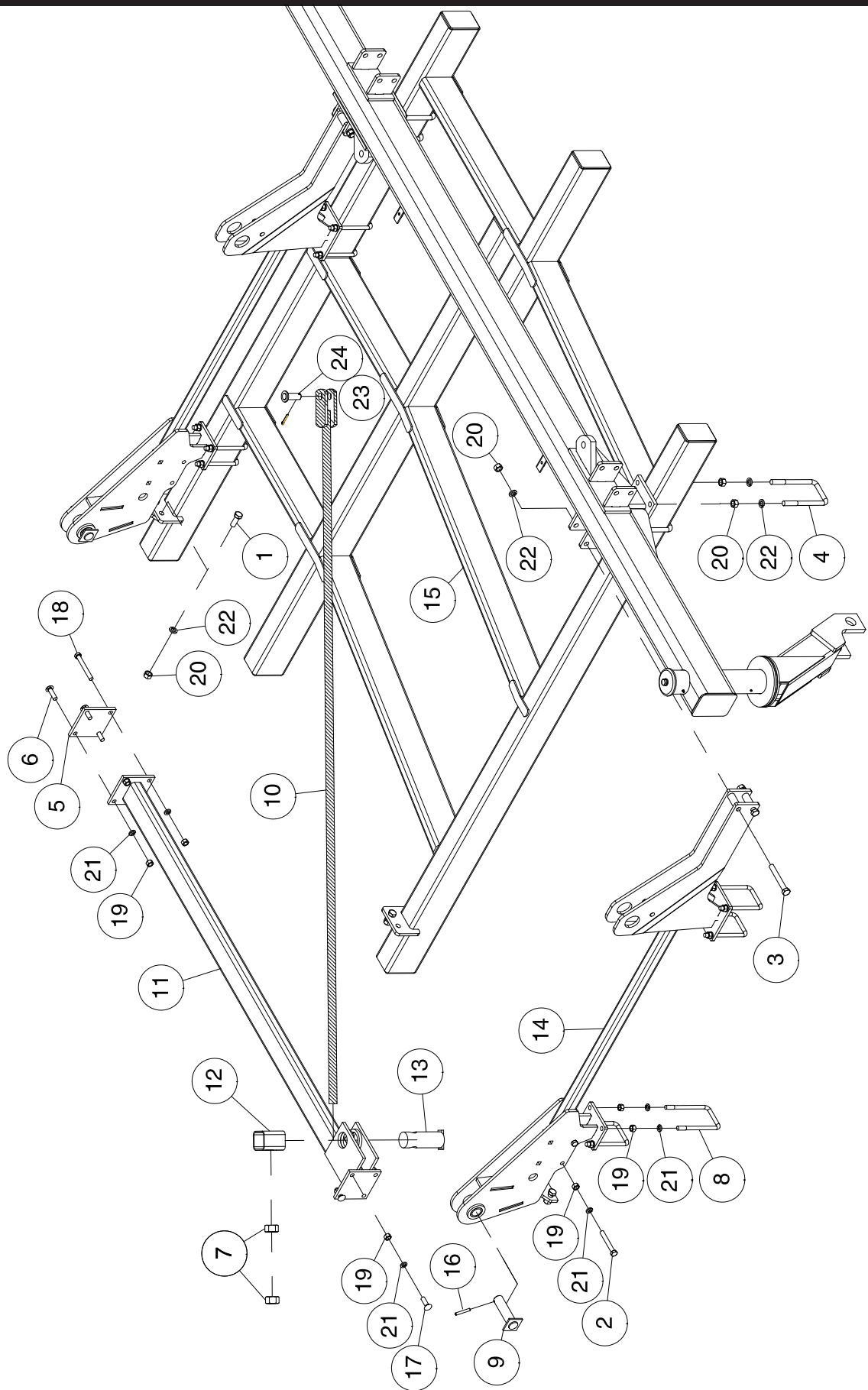
**Frame
50ft Outer Wing Lift**



Frame - 50ft Outer Wing Lift

| Item | Part No. | Description | Qty |
|-------------|-----------------|--|------------|
| 1 | A31164 | Bushing - 1 1/2 OD x 1.031 ID x 1 1/2 OD | 2 |
| 2 | C34442 | Hydraulic Cylinder - 4 1/2 x 30 | 2 |
| 3 | D-5244 | Spiral Pin - 1/4 x 2..... | 8 |
| 4 | D17974 | Pin - 1 x 6 7/8 UL | 2 |
| 5 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 2 |
| 6 | N33874 | Pin - 1 1/4 Dia x 6 3/16 UL..... | 2 |
| 7 | S39570 | Outer Wing Lift Roller | 4 |
| 8 | S44311 | Pin - 1 1/2 Dia x 3 1/16 UL..... | 4 |
| 9 | S48591 | Outer Winglift Lever..... | 2 |
| 10 | S51281 | Lift Lever | 2 |
| 11 | S51282 | Lift Link..... | 2 |
| 12 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 2 |
| 13 | W-558 | Pin - 1 Dia x 2 1/4 UL..... | 2 |

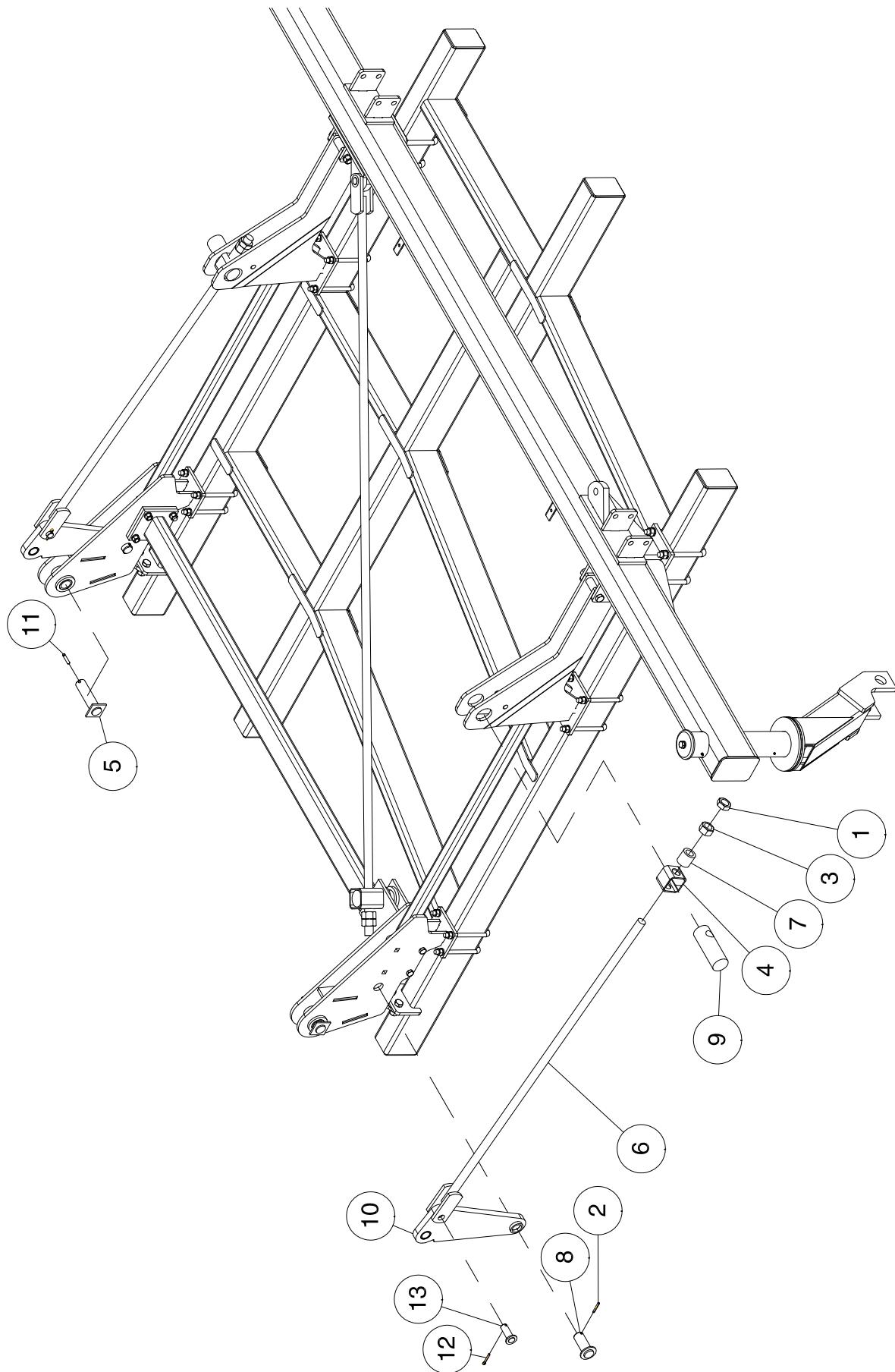
**Frame
60ft Outer Wing**



Frame - 60ft Outer Wing

| Item | Part No. | Description | Qty |
|------|---------------|---|--------------|
| 1 | C-695 | Hex Bolt - 3/4 x 2 Lg..... | 4 |
| 2 | C-852 | Hex Bolt 5/8 x 4 1/2 Lg..... | 2 |
| 3 | C-3919 | Hex Bolt - 3/4 x 5 1/2 Lg..... | 4 |
| 4 | C26955 | U-Bolt - 3/4 x 4 x 8 | 4 |
| 5 | F10542 | Center Mounting Plate | 1 |
| 6 | N33594 | Carriage Bolt - 5/8 x 2 1/4 Lg | 2 |
| 7 | P61D20 | Hex Nut - 1 1/4 | 2 |
| 8 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 8 |
| 9 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used to mount opener to wing truss mounts..... | AsReq |
| 10 | S42822 | Pin - 1 1/2 x 5 1/8 UL..... | 2 |
| 11 | S49817 | Tie Rod - 109 1/2 Lg..... | 1 |
| 12 | S44981 | Support Beam | 1 |
| 13 | S44984 | Spacer Tube | 1 |
| 14 | S47655 | Tie Rod Pin | 1 |
| 15 | S48586 | Front Outer Wing Lift Truss | 2 |
| 16 | S49965 | Outer Wing - Left | 1 |
| 17 | S49966 | Outer Wing - Right | 1 |
| 18 | T-5245 | Spiral Pin - 3/8 x 2 1/2 Lg | 2 |
| 19 | T-5268 | Carriage Bolt - 5/8 x 2 Lg | 2 |
| 20 | W-506 | Hex Bolt - 5/8 x 5 Lg..... | 2 |
| 21 | W-517 | Hex Nut - 5/8 | 24 |
| 22 | W-518 | Hex Nut - 3/4 | 12 |
| 23 | W-526 | Lockwasher - 5/8..... | 24 |
| 24 | W-527 | Lockwasher - 3/4..... | 16 |
| | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 1 |
| | W-558 | Pin - 1 Dia x 2 1/4 UL..... | 1 |

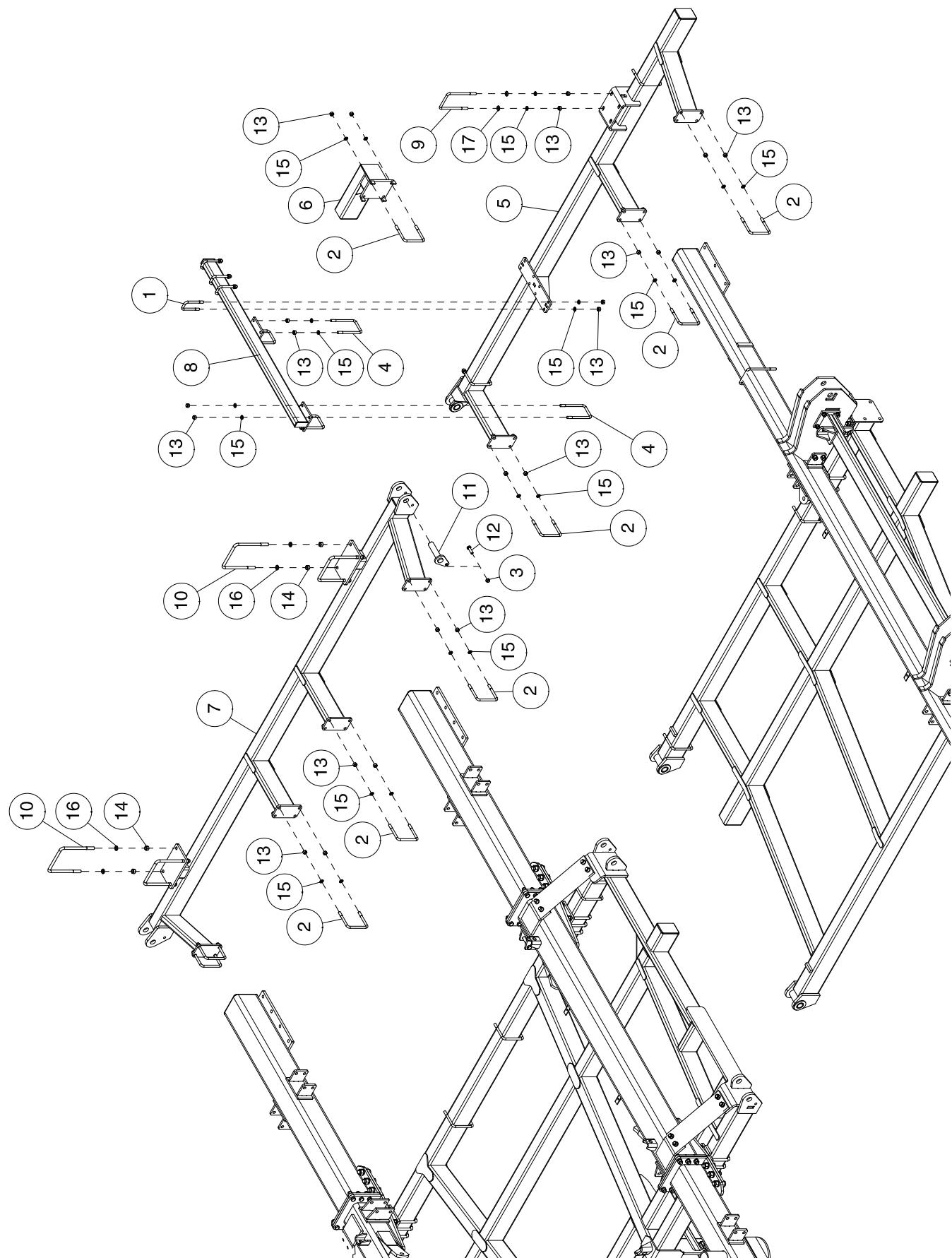
**Frame
60ft Outer Wing Lift**



Frame - 60ft Outer Wing Lift

| Item | Part No. | Description | Qty |
|------|----------|-----------------------------------|-----|
| 1 | C15768 | Hex Jam Nut - 1 1/4 | 2 |
| 2 | D-5244 | Spirol Pin - 1/4 x 2..... | 2 |
| 3 | P61D20 | Hex Nut - 1 1/4..... | 2 |
| 4 | S42813 | Spacer Tube | 2 |
| 5 | S42822 | Pin - 1 1/2 x 5 1/8 UL | 2 |
| 6 | S42828 | Tie Rod - 1 1/4 Dia x 61 Lg | 2 |
| 7 | S44040 | Bushing - 2 OD x 1.264 ID | 2 |
| 8 | S44311 | Pin - 1 1/2 Dia x 3 1/16 UL | 2 |
| 9 | S44983 | Outer Wing Lift Pivot | 2 |
| 10 | S48591 | Outer Winglift Lever..... | 2 |
| 11 | T-5245 | Spiral Pin - 3/8 x 2 1/2 Lg | 2 |
| 12 | W-535 | Cotter Pin - 1/4 x 1 1/2 Lg | 2 |
| 13 | W-558 | Pin 1 Dia x 2 1/4 UL | 2 |

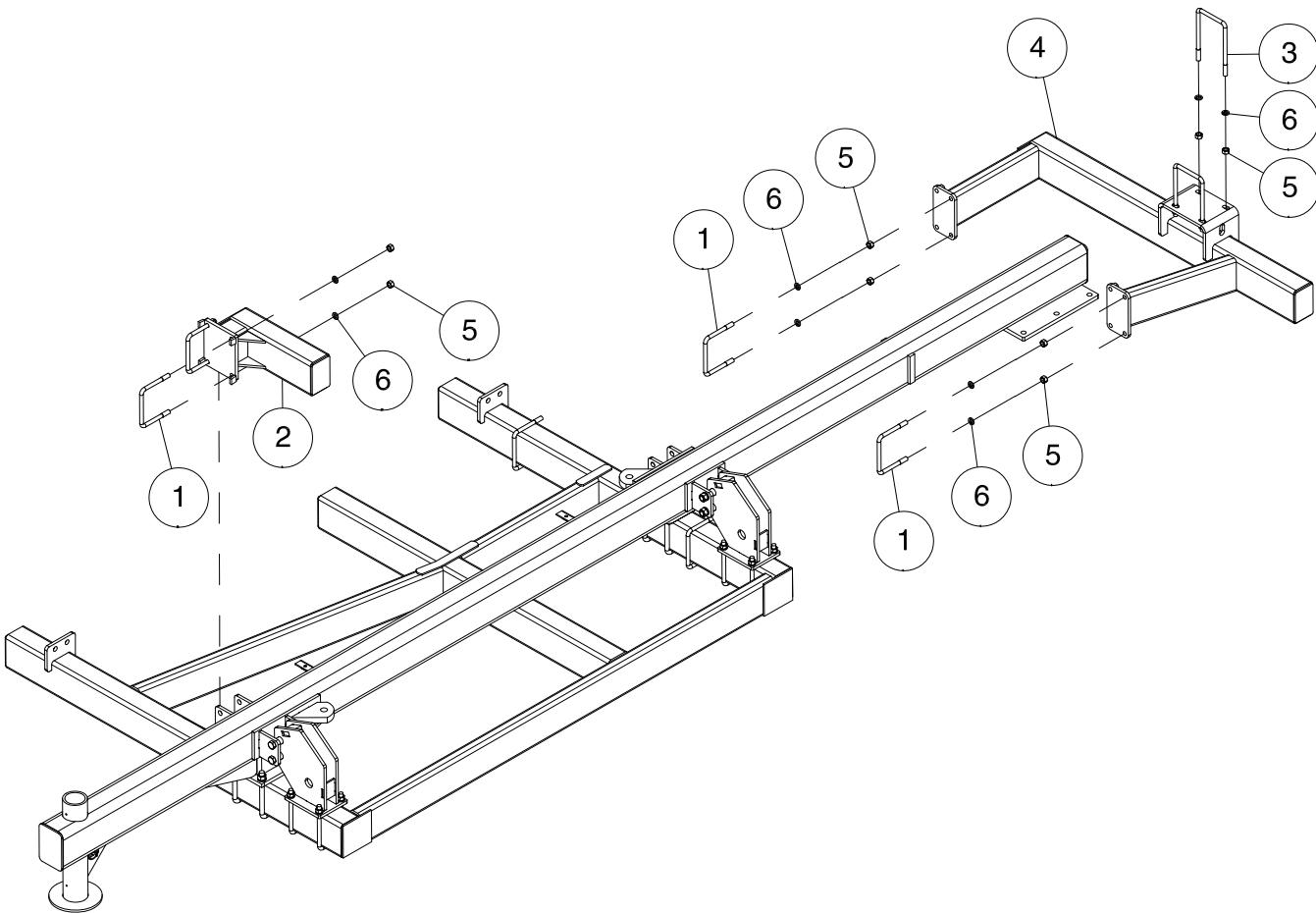
Options
Fertilizer Opener - Main and Inner Frame - 40ft, 50ft, & 60ft



Fertilizer Opener - Main and Inner Frame - 40ft, 50ft, & 60ft

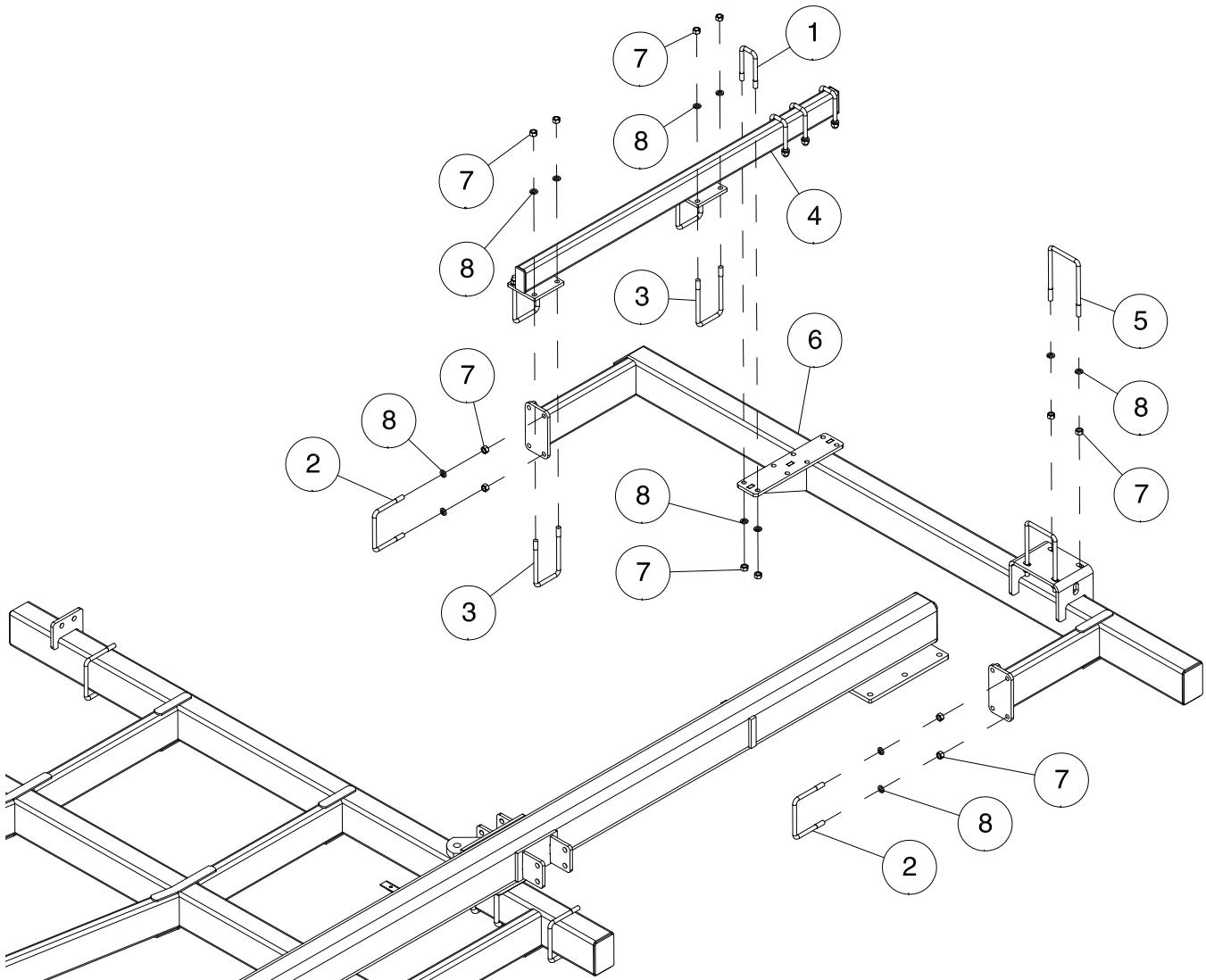
| Item | Part No. | Description | Qty |
|------|----------|-------------------------------------|-----|
| 1 | D-4931 | U-Bolt - 1/2 x 5-1/2..... | 8 |
| 2 | F-4642 | U-Bolt - 5/8 x 6 x 5-1/2 | 24 |
| 3 | S-1197 | Locknut - 5/8 Unitorque..... | 2 |
| 4 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 8 |
| 5 | S49970 | Coulter Beam - Left | 1 |
| | S49971 | Coulter Beam - Right..... | 1 |
| 6 | S49972 | Ext Sub | 2 |
| 7 | S49980 | Coulter Beam | 1 |
| 8 | S49989 | Mounting Arm..... | 2 |
| 9 | S49990 | U-Bolt - 5/8 x 5-1/16 x 9 | 4 |
| 10 | S49996 | U-Bolt - 3/4 x 8-1/4 x 10-1/2 | 4 |
| 11 | S55025 | Pin - Coulter Beam Hinge | 2 |
| 12 | W-499 | Hex Bolt - 5/8 x 2 Lg..... | 2 |
| 13 | W-517 | Hex Nut - 5/8 | 90 |
| 14 | W-518 | Hex Nut - 3/4 | 24 |
| 15 | W-526 | Lockwasher - 5/8..... | 96 |
| 16 | W-527 | Lockwasher - 3/4..... | 24 |
| 17 | W-629 | Flat Washer - 5/8..... | 4 |

Options
Fertilizer Opener - Outer Wing 50ft



| Item | Part No. | Description | Qty |
|------|----------|---------------------------------|-----|
| 1 | F-4642 | U-Bolt - 5/8 x 6 x 5-1/2 | 12 |
| 2 | S49972 | Ext Stub | 2 |
| 3 | S49990 | U-Bolt - 5/8 x 5-1/16 x 9 | 4 |
| 4 | S51293 | Coulter Beam - Left | 1 |
| | S51294 | Coulter Beam - Right | 1 |
| 5 | W-517 | Hex Nut - 5/8 | 32 |
| 6 | W-526 | Lockwasher - 5/8 | 32 |

Options
Fertilizer Opener - Outer Wing 60ft



| Item | Part No. | Description | Qty |
|------|----------|---------------------------------|-----|
| 1 | D-4931 | U-Bolt - 1/2 x 5-1/2..... | 8 |
| 2 | F-4642 | U-Bolt - 5/8 x 6 x 5-1/2 | 8 |
| 3 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 8 |
| 4 | S49989 | Mounting Arm..... | 2 |
| 5 | S49990 | U-Bolt - 5/8 x 5-1/16 x 9 | 4 |
| 6 | S49993 | Coulter Beam - Left | 1 |
| | S49994 | Coulter Beam - Right..... | 1 |
| 7 | W-517 | Hex Nut - 5/8 | 56 |
| 8 | W-526 | Lockwasher - 5/8..... | 56 |

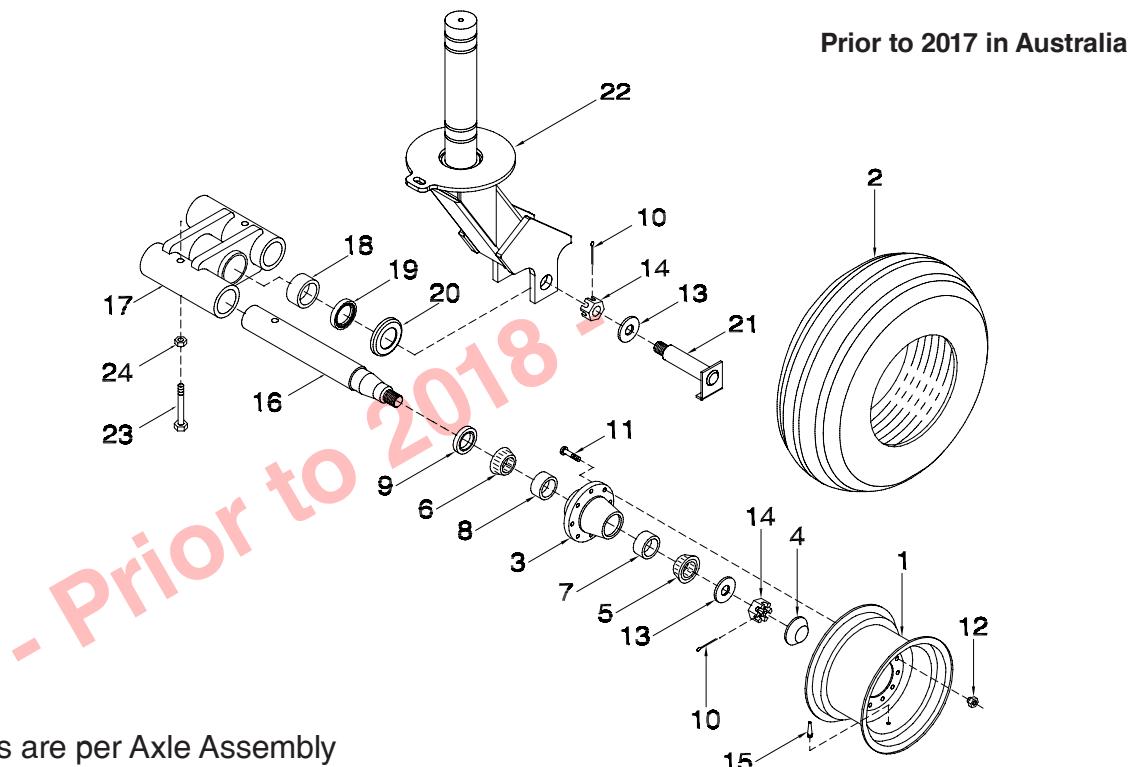
Notes

Section 2: Wheels

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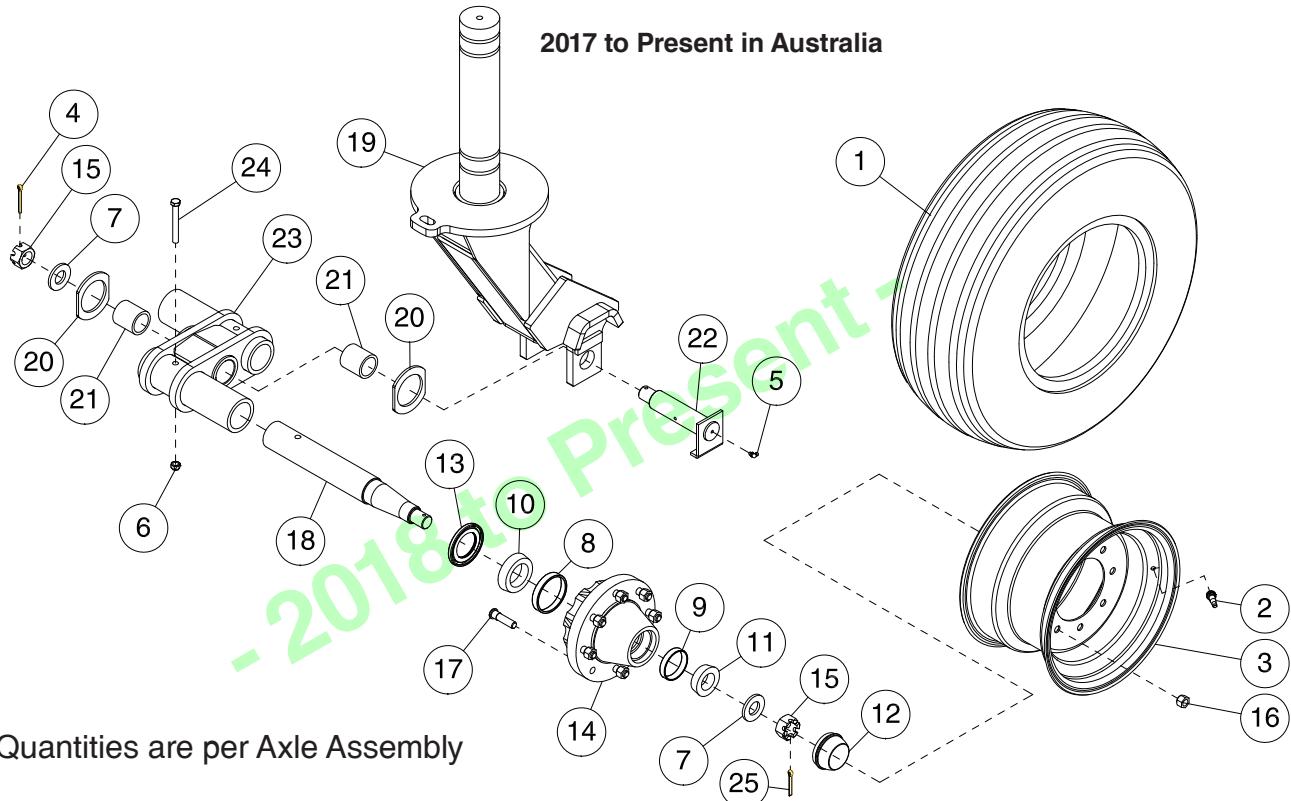
Main Dual Wheels
Front Axle Castor - Prior to 2018



Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | C17355 | Rim - 15 x 10 - 8 Bolt - 12.5L tires..... | 2 |
| | S47512 | Rim - 16.1 x 14 - 8 Bolt - 16.5L tires..... | 2 |
| 2 | C26840 | Tire - 12.5L x 15FI - Load Range F | 2 |
| | S47510 | Tire - 16.5L x 16.1FI - Load Range E | 2 |
| 3 | N19173 | Hub (Includes Items 7, 8 & 11)..... | 2 |
| 4 | N19171 | Dust Cap | 2 |
| 5 | N19170 | Outer Wheel Bearing | 2 |
| 6 | N19169 | Inner Wheel Bearing | 2 |
| 7 | N19168 | Outer Bearing Cup | 2 |
| 8 | N19167 | Inner Bearing Cup | 2 |
| 9 | N19172 | Seal..... | 2 |
| 10 | D-5239 | Cotter Pin - 1/4 x 2 1/4 | 3 |
| 11 | N19727 | Wheel Stud - 5/8 x 18 UNF x 2 1/2 | 16 |
| 12 | N19586 | Tapered Wheel Nut - 5/8 - 18 UNF | 16 |
| 13 | N13962 | Flatwasher - 1 9/32 ID x 2 1/2 OD x 1/4 thick | 3 |
| 14 | N19484 | Castle Nut - 1 1/4 | 3 |
| 15 | C17348 | Valve Stem - TR-416 | 2 |
| 16 | S47509 | Spindle - 2 1/2 Dia | 2 |
| 17 | S47629 | Axle Bracket - Offset - 2 1/2 Spindle | 1 |
| 18 | C26086 | Bearing - Garlock - 1 3/4 OD x 1 1/2 Lg..... | 2 |
| 19 | C26266 | Dust Seal - 2.254 OD x 0.266 Thick..... | 2 |
| 20 | C26082 | Washer - Formed - 1 3/4 ID..... | 2 |
| 21 | S47627 | Pin - Walking Beam Pivot - 1 3/4 x 6 1/2 UL | 1 |
| 22 | S44309 | Castor Fork - Main Frame - 12.5L x 15 FI Tire | 1 |
| | S53265 | Castor Fork - Main Frame - 16.5L x 16.1 FI Tire | 1 |
| 23 | W-495 | Hex Bolt - 1/2 x 4 Lg..... | 2 |
| 24 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |

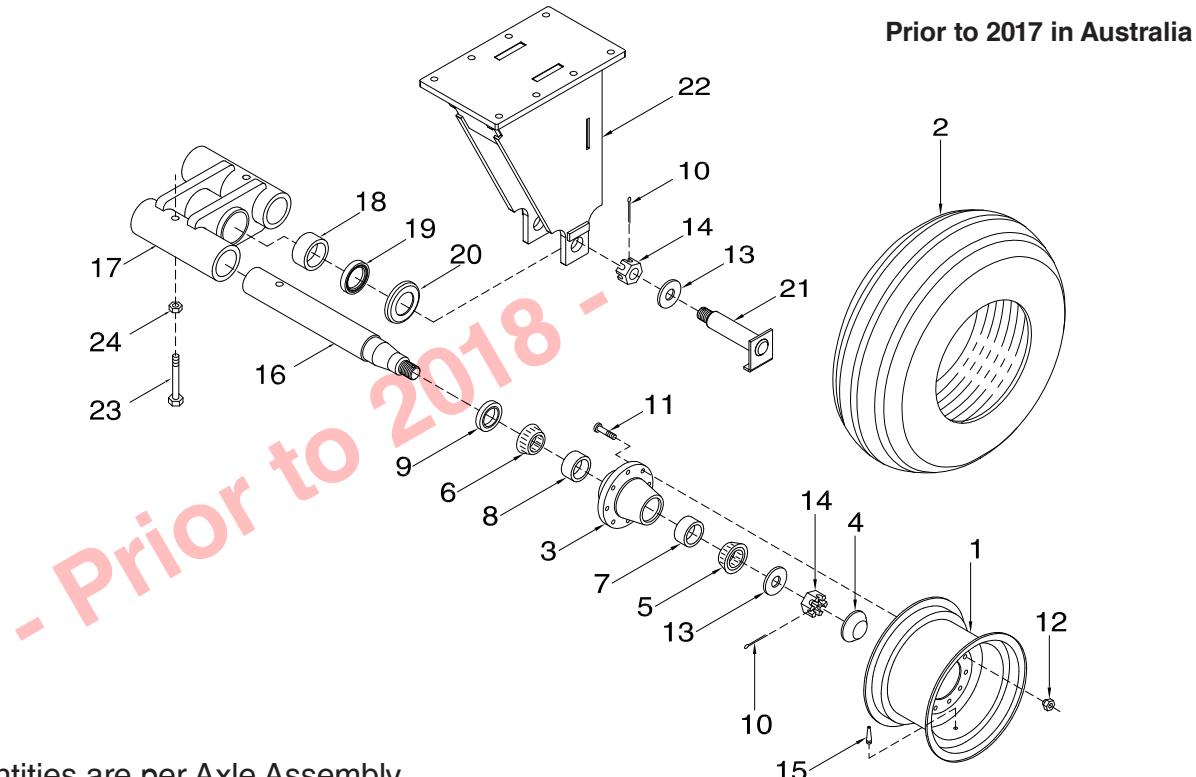
**Main Dual Wheels
Front Axle Castor - 2018 to Present**



Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C26840 | Tire - 12.5L x 15FI - Load Range F | 2 |
| | S47510 | Tire - 16.5L x 16.1 FI - Load Range E | 2 |
| 2 | C17348 | Valve Stem - TR-416..... | 2 |
| 3 | C17355 | Rim - 15 x 10 - 8 Bolt - 12.5L Tire | 2 |
| | S47512 | Rim - 16.1 x 14 - 8 Bolt - 16.5L Tire..... | 2 |
| 4 | D-5239 | Cotter Pin - 1/4 x 2 1/4 Lg | 1 |
| 5 | F-3056 | Grease Zerk - 1/4 NPT x 90 Degree | 1 |
| 6 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |
| 7 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 2 |
| 8 | N19167 | Inner Bearing Cup..... | 1 |
| 9 | N19168 | Outer Bearing Cup | 1 |
| 10 | N19169 | Inner Wheel Bearing | 1 |
| 11 | N19170 | Outer Wheel Bearing | 1 |
| 12 | N19171 | Dust Cap | 1 |
| 13 | N19172 | Seal..... | 1 |
| 14 | N19173 | Hub (Includes Items 8, 9 & 17)..... | 1 |
| 15 | N19484 | Hex Slotted Nut - 1-1/4 - 12 UNF | 2 |
| 16 | N19586 | Hex Nut - 5/8 | 8 |
| 17 | N19727 | Wheel Stud - 5/8 - 18 UNF x 2 1/2..... | 8 |
| 18 | S32556 | Spindle - 2 1/2 Dia - 12.5L Tire..... | 2 |
| | S47509 | Spindle - 2 1/2 Dia - 16.5L Tire..... | 2 |
| 19 | S44309 | Castor Fork - 12.5L x 15 FI Tire | 1 |
| | S53265 | Castor Fork - 16.5L Tires x 16.1 FI Tire | 1 |
| 20 | S55629 | Wear Washer - 3 1/16 ID X 4 1/2 OD | 2 |
| 21 | S55639 | Axle Pivot Bushing - 1.75 ID x 2.25 OD x 2.375Lg | 2 |
| 22 | S62026 | Pivot Pin - Greasable - 1 3/4 Dia x 6 1/2 UL | 1 |
| 23 | S62050 | Walking Beam | 2 |
| 24 | W-495 | Hex Bolt - 1/2 x 4 Lg..... | 2 |
| 25 | W-4181 | Cotter Pin - 1/4 x 2 Lg | 2 |

**Main Dual Wheels
Rear Axles - Prior to 2018**

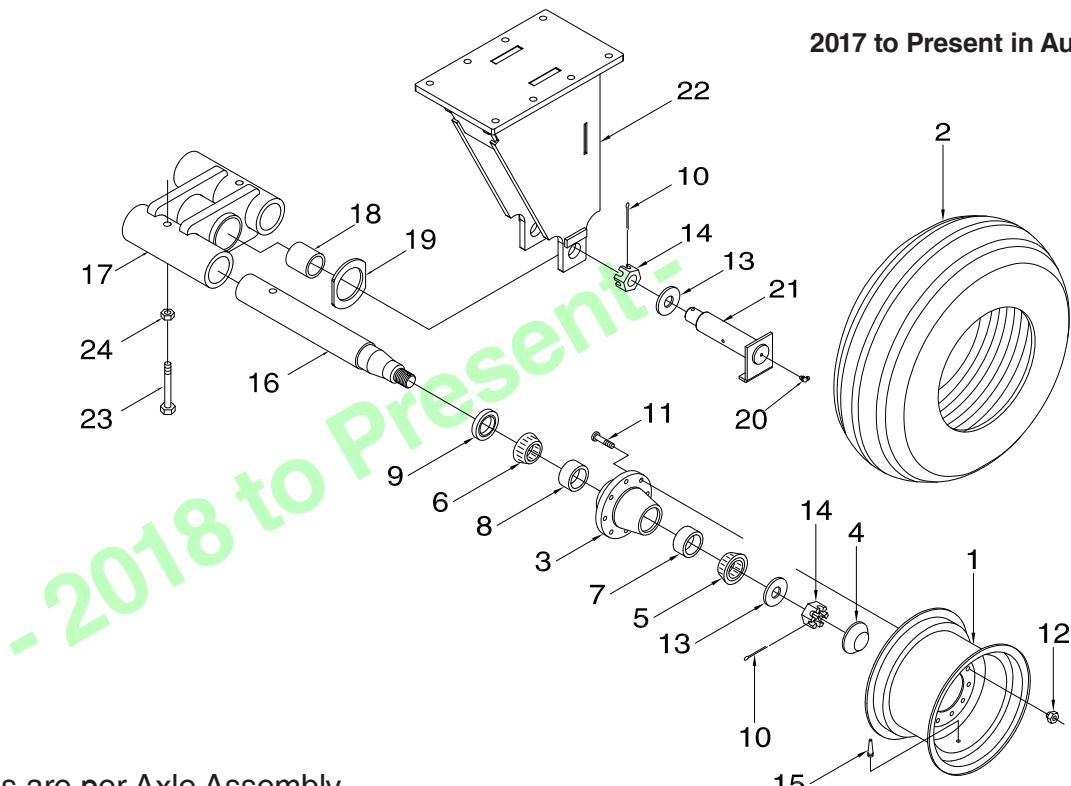


Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C17355 | Rim - 15 x 10 - 8 Bolt - 12.5L tires..... | 2 |
| | S47512 | Rim - 16.1 x 14 - 8 Bolt - 16.5L tires..... | 2 |
| 2 | C26840 | Tire - 12.5L x 15FI - Load Range F | 2 |
| | S47510 | Tire - 16.5L x 16.1FI - Load Range E | 2 |
| 3 | N19173 | Hub (Includes Items 7, 8 & 11)..... | 2 |
| 4 | N19171 | Dust Cap | 2 |
| 5 | N19170 | Outer Wheel Bearing | 2 |
| 6 | N19169 | Inner Wheel Bearing | 2 |
| 7 | N19168 | Outer Bearing Cup | 2 |
| 8 | N19167 | Inner Bearing Cup | 2 |
| 9 | N19172 | Seal | 2 |
| 10 | D-5239 | Cotter Pin - 1/4 x 2 1/4 | 3 |
| 11 | N19727 | Wheel Stud - 5/8 x 18 UNF x 2 1/2 | 16 |
| 12 | N19586 | Tapered Wheel Nut - 5/8 - 18 UNF | 16 |
| 13 | N13962 | Flatwasher - 1.281ID x 2 1/2 OD x 1/4 Thick | 3 |
| 14 | N19484 | Castle Nut - 1 1/4 | 3 |
| 15 | C17348 | Valve Stem - TR-416 | 2 |
| 16 | S47509 | Spindle - 2 1/2 Dia | 2 |
| 17 | S47629 | HD Axle Bracket - Offset - 2 1/2 Spindle (Includes items 18 & 19)..... | 1 |
| 18 | C26086 | Bearing - Garlock - 1 3/4 OD x 1 1/2 Lg | 2 |
| 19 | C26266 | Dust Seal - 2.254 OD x 0.266 Thick | 2 |
| 20 | C26082 | Washer - Formed - 1 3/4 ID | 2 |
| 21 | S47627 | Pin - Walking Beam Pivot - 1 3/4 x 6 1/2 UL | 1 |
| 22 | S51020 | Rear Main Axle Mount - 12.5 Tire | 2 |
| | S53264 | Rear Main Axle - 16.5L tires | 2 |
| 23 | W-495 | Hex Bolt - 1/2 x 4 Lg | 2 |
| 24 | F-3405 | Locknut - 1/2 Unitorque | 2 |

**Main Dual Wheels
Rear Axles - 2018 to Present**

2017 to Present in Australia

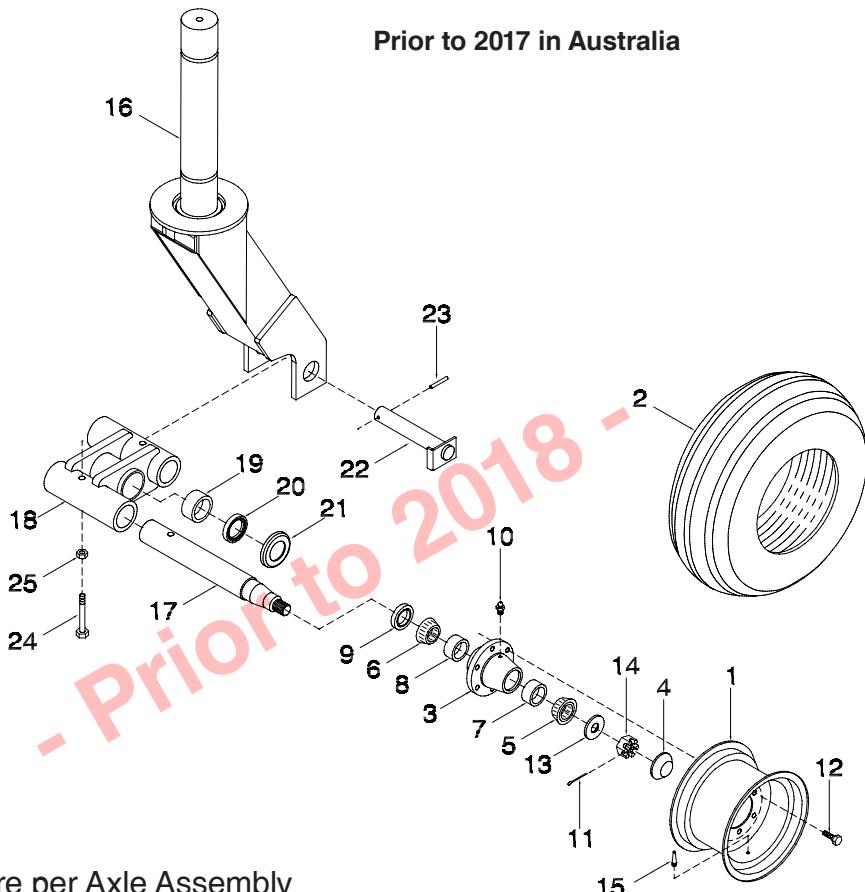


Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C17355 | Rim - 15 x 10 - 8 Bolt - 12.5L tires..... | 2 |
| | S47512 | Rim - 16.1 x 14 - 8 Bolt - 16.5L tires..... | 2 |
| 2 | C26840 | Tire - 12.5L x 15FI - Load Range F | 2 |
| | S47510 | Tire - 16.5L x 16.1FI - Load Range E | 2 |
| 3 | N19173 | Hub (Includes Items 7, 8 & 11)..... | 2 |
| 4 | N19171 | Dust Cap | 2 |
| 5 | N19170 | Outer Wheel Bearing | 2 |
| 6 | N19169 | Inner Wheel Bearing | 2 |
| 7 | N19168 | Outer Bearing Cup | 2 |
| 8 | N19167 | Inner Bearing Cup..... | 2 |
| 9 | N19172 | Seal..... | 2 |
| 10 | D-5239 | Cotter Pin - 1/4 x 2 1/4 Lg | 2 |
| 11 | N19727 | Wheel Stud - 5/8 x 18 UNF x 2 1/2 | 16 |
| 12 | N19586 | Tapered Wheel Nut - 5/8 - 18 UNF | 16 |
| 13 | N13962 | Flatwasher - 1.281ID x 2 1/2 OD x 1/4 Thick..... | 2 |
| 14 | N19484 | Hex Slotted Nut - 1-1/4 - 12 UNF..... | 2 |
| 15 | C17348 | Valve Stem - TR-416..... | 2 |
| 16 | S32556 | Spindle - 2 1/2 Dia - 12.5L Tire..... | 2 |
| | S47509 | Spindle - 2 1/2 Dia - 16.5L Tire..... | 2 |
| 17 | S47629 | HD Axle Bracket - Offset - 2 1/2 Spindle (Includes items 18 & 19)..... | 1 |
| 18 | S55639 | Axle Pivot Bushing - 1.75 ID x 2.25 OD x 2.375Lg | 2 |
| 19 | S55629 | Wear Washer - 3 1/16 ID X 4 1/2 OD | 2 |
| 20 | F-3056 | Grease Zerk - 1/4 NPT x 90 Degree | 1 |
| 21 | S62026 | Pivot Pin - Greasable - 1 3/4 Dia x 6 1/2 UL | 1 |
| 22 | S51020 | Rear Main Axle Mount - 12.5 Tire | 2 |
| | S53264 | Rear Main Axle - 16.5L Tires | 2 |
| 23 | W-495 | Hex Bolt - 1/2 x 4 Lg..... | 2 |
| 24 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |

Wing Dual Wheels
Front Axle Castor - Prior to 2018

Prior to 2017 in Australia

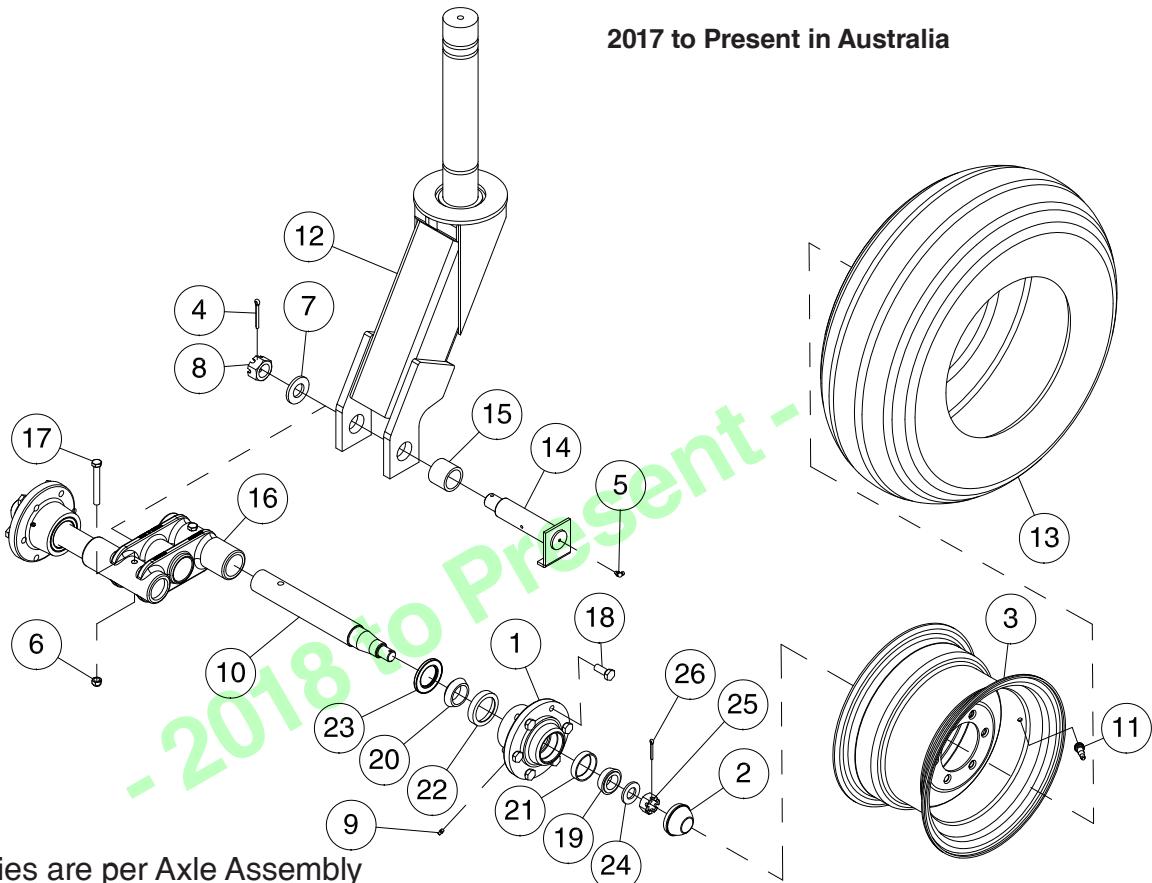


Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C16611 | Rim - 15 x 10 - 6 Bolt..... | 2 |
| 2 | C24562 | Tire - 12.5L x 15SL - 12 Ply rating | 2 |
| 3 | C-1463 | Heavy Duty Hub - 6 Bolt (Includes Items 7, 8 & 10) | 2 |
| 4 | C-1522 | Dust Cap | 2 |
| 5 | W-1474 | Outer Wheel Bearing..... | 2 |
| 6 | W-1475 | Inner Wheel Bearing | 2 |
| 7 | W-1537 | Outer Bearing Cup | 2 |
| 8 | W-1538 | Inner Bearing Cup | 2 |
| 9 | C-1521 | Seal..... | 2 |
| 10 | S-752 | Grease Zerk - 1/4 NPT Straight | 2 |
| 11 | W-1416 | Cotter Pin - 3/16 x 1 1/2 | 2 |
| 12 | W-1383 | Wheel Stud Bolt - 9/16 x 1 11/16 | 12 |
| 13 | C-3258 | Flatwasher - 2 OD x 1 1/16 ID x 3/16 | 2 |
| 14 | S-1311 | Slotted Nut - 1 SAE | 2 |
| 15 | C17348 | Valve Stem - TR-416..... | 2 |
| 16 | S45720 | Offset Castor - 3/4" side plates | 1 |
| 17 | S32545 | Spindle 2" Dia | 2 |
| 18 | S39440 | Axle Bracket - Offset (Includes items 19 & 20) | 1 |
| 19 | C26086 | Bearing - Garlock - 1 3/4 OD x 1 1/2 Lg | 2 |
| 20 | C26266 | Dust Seal - 2.54 OD x 0.266 Thick | 2 |
| 21 | C26082 | Washer - Formed - 1 3/4 ID | 2 |
| 22 | C26085 | Pin - Walking Beam Pivot - 1 3/4 x 6 5/8 UL | 4 |
| 23 | T-5245 | Spiral Pin - 3/8 x 2 1/2..... | 1 |
| 24 | W-493 | Hex Bolt - 1/2 x 3 1/2 Lg..... | 2 |
| 25 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |

Wing Dual Wheels
Front Axle Castor - 2018 to Present

2017 to Present in Australia

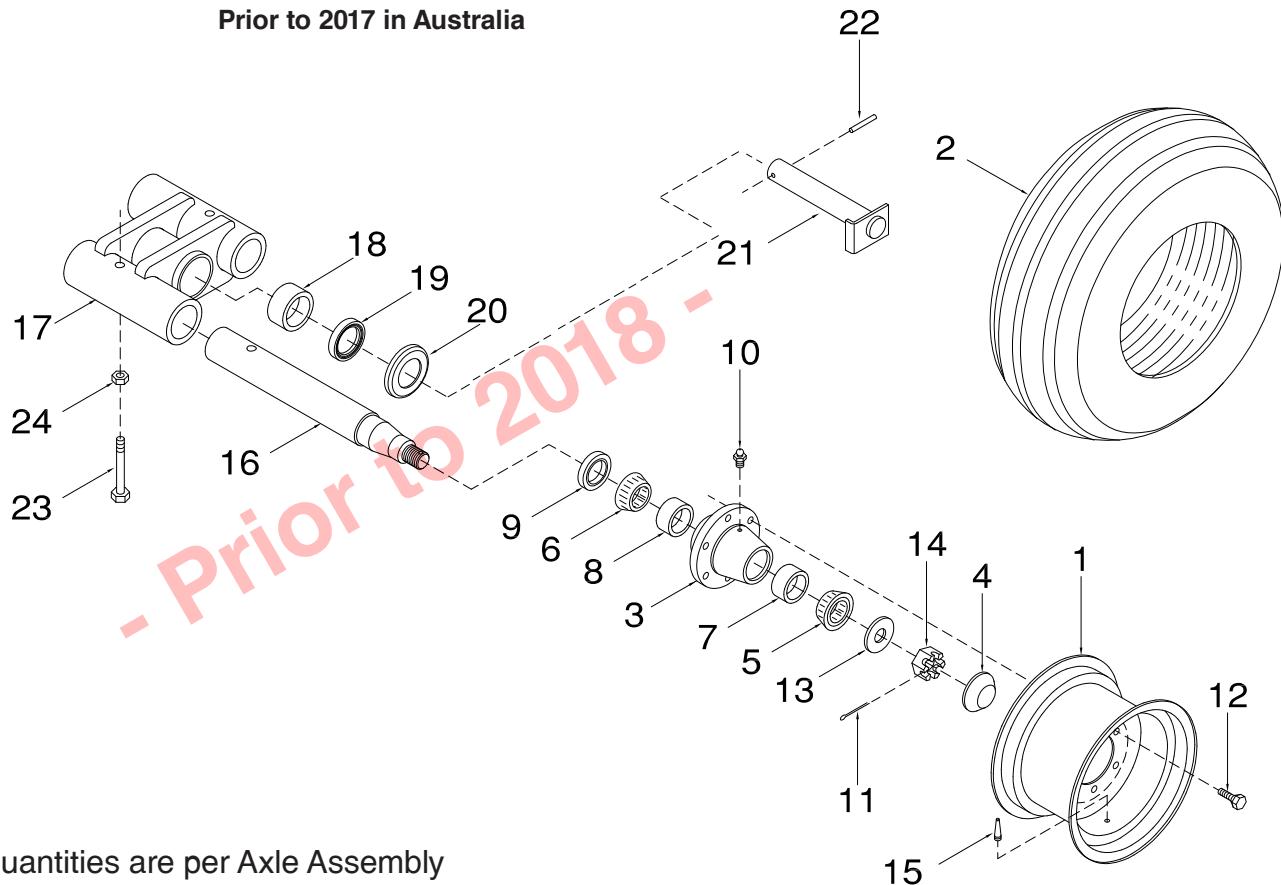


Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C-1463 | Heavy Duty Hub - 6 Bolt (Include Items 2, 9, 18, 19, 20, 21 & 22)..... | 2 |
| 2 | C-1522 | Dust Cap | 2 |
| 3 | C16611 | Rim - 15 x 10 - 6 Hole | 2 |
| 4 | D-5239 | Cotter Pin - 1/4 x 2 1/4 Lg | 2 |
| 5 | F-3056 | Grease Zerk - 1/4 NPT x 90 Degree | 2 |
| 6 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |
| 7 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 1 |
| 8 | N19484 | Hex Slotted Nut - 1-1/4 - 12 UNF..... | 1 |
| 9 | S-752 | Grease Zerk - 1/4 UNF Straight | 2 |
| 10 | S32545 | Sprindle - 2" Dia..... | 2 |
| 11 | C17348 | Valve Stem - TR-416..... | 2 |
| 12 | S45720 | Offset Castor - 3/4" Side Plates | 1 |
| 13 | C24562 | Tire - 12.5L x 15SL - 12 Ply Rating | 2 |
| 14 | S62026 | Pivot Pin - Greasable - 1 3/4 Dia x 6 1/2 UL | 1 |
| 15 | S62027 | Axle Pivot Bushing - 1.75 ID x 2.25 OD x 1.875Lg | 2 |
| 16 | S62055 | Offset Castor - Includes Item 15..... | 1 |
| 17 | W-495 | Hex Bolt - 1/2 x 4 Lg..... | 2 |
| 18 | W-1383 | Wheel Stud Bolt - 9/16 x 1 3/16 UL | 12 |
| 19 | W-1474 | Outer Wheel Bearing | 2 |
| 20 | W-1475 | Inner Wheel Bearing | 2 |
| 21 | W-1537 | Outer Bearing Cup | 2 |
| 22 | W-1538 | Inner Bearing Cup | 2 |
| 23 | C-1521 | Dust Seal | 2 |
| 24 | C-3258 | Flatwasher - 2 OD x 1 1/16 ID x 3/16 | 2 |
| 25 | S-1311 | Slotted Nut - 1 UNS..... | 2 |
| 26 | W-1416 | Cotter Pin - 3/16 x 1 1/2 Lg | 2 |

Wing Dual Wheels Rear Axle - Prior to 2018

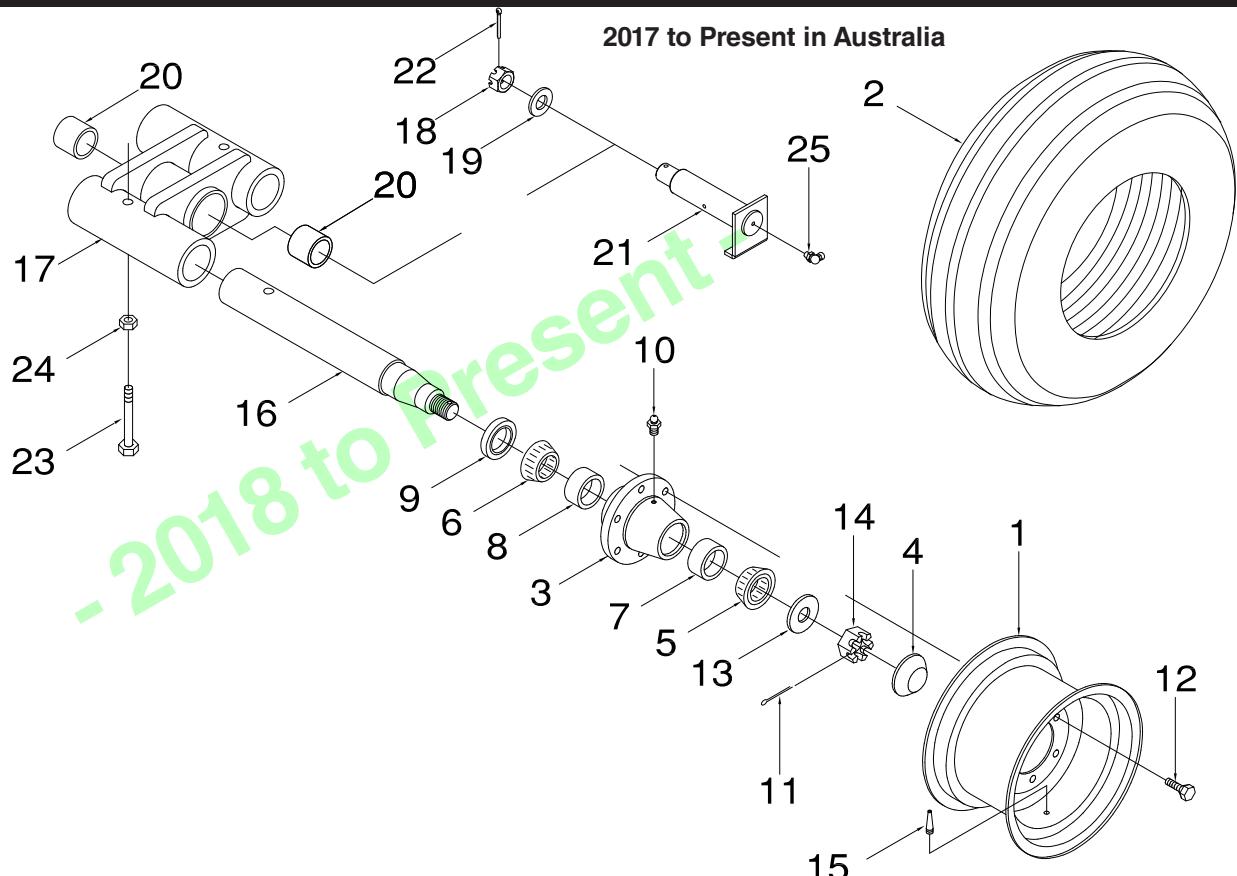
Prior to 2017 in Australia



Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C16611 | Rim - 15 x 10 - 6 Bolt..... | 2 |
| 2 | C24562 | Tire - 12.5L x 15SL - 12 Ply rating | 2 |
| 3 | C-1463 | Heavy Duty Hub - 6 Bolt (Includes Items 7, 8 & 10) | 2 |
| 4 | C-1522 | Dust Cap | 2 |
| 5 | W-1474 | Outer Wheel Bearing..... | 2 |
| 6 | W-1475 | Inner Wheel Bearing | 2 |
| 7 | W-1537 | Outer Bearing Cup | 2 |
| 8 | W-1538 | Inner Bearing Cup | 2 |
| 9 | C-1521 | Seal..... | 2 |
| 10 | S-752 | Grease Zerk - 1/4 NPT Straight | 2 |
| 11 | W-1416 | Cotter Pin - 3/16 x 1 1/2 | 2 |
| 12 | W-1383 | Wheel Stud Bolt - 9/16 x 1 11/16 | 12 |
| 13 | C-3258 | Flatwasher - 2 OD x 1 1/16 ID x 3/16 | 2 |
| 14 | S-1311 | Slotted Nut - 1 SAE | 2 |
| 15 | C17348 | Valve Stem - TR-416 - 5 Frame Models..... | 2 |
| 16 | S32545 | Spindle 2" Dia | 2 |
| 17 | S39440 | Axle Bracket - Offset (Includes items 19 & 20) | 1 |
| 18 | C26086 | Bearing - Garlock - 1 3/4 OD x 1 1/2 Lg | 2 |
| 19 | C26266 | Dust Seal - 2.54 OD x 0.266 Thick | 2 |
| 20 | C26082 | Washer - Formed - 1 3/4 ID | 2 |
| 21 | C26085 | Pin - Walking Beam Pivot - 1 3/4 x 6 5/8 UL | 4 |
| 22 | T-5245 | Spiral Pin - 3/8 x 2 1/2..... | 1 |
| 23 | W-493 | Hex Bolt - 1/2 x 3 1/2 Lg..... | 2 |
| 24 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |

Wing Dual Wheels
Rear Axle - 2018 to Present



Quantities are per Axle Assembly

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C16611 | Rim - 15 x 10 - 6 Bolt..... | 2 |
| 2 | C24562 | Tire - 12.5L x 15SL - 12 Ply rating | 2 |
| 3 | C-1463 | Heavy Duty Hub - 6 Bolt (Includes Items 7, 8 & 10) | 2 |
| 4 | C-1522 | Dust Cap | 2 |
| 5 | W-1474 | Outer Wheel Bearing..... | 2 |
| 6 | W-1475 | Inner Wheel Bearing | 2 |
| 7 | W-1537 | Outer Bearing Cup | 2 |
| 8 | W-1538 | Inner Bearing Cup | 2 |
| 9 | C-1521 | Seal..... | 2 |
| 10 | S-752 | Grease Zerk - 1/4 NPT Straight | 2 |
| 11 | W-1416 | Cotter Pin - 3/16 x 1 1/2 | 2 |
| 12 | W-1383 | Wheel Stud Bolt - 9/16 x 1 11/16 | 12 |
| 13 | C-3258 | Flatwasher - 2 OD x 1 1/16 ID x 3/16 | 2 |
| 14 | S-1311 | Slotted Nut - 1UNS | 2 |
| 15 | C17348 | Valve Stem - TR-416..... | 2 |
| 16 | S32545 | Spindle - 2" Dia | 2 |
| 17 | S39440 | Axle Bracket - Offset (Includes items 19 & 20) | 1 |
| 18 | N19484 | Hex Slotted Nut - 1-1/4 - 12 UNF | 1 |
| 19 | N13962 | Washer - 2-1/2 OD x 1-9/32 ID x 1/4 | 1 |
| 20 | S62027 | Axle Pivot Bushing - 1.75 ID x 2.25 OD x 1.875Lg | 2 |
| 21 | S62026 | Pivot Pin - Greasable - 1 3/4 Dia x 6 1/2 UL | 1 |
| 22 | D-5239 | Cotter Pin - 1/4 x 2 1/4 Lg | 2 |
| 23 | W-493 | Hex Bolt - 1/2 x 3 1/2 Lg..... | 2 |
| 24 | F-3405 | Locknut - 1/2 Unitorque..... | 2 |
| 25 | F-3056 | Grease Zerk - 1/4 NPT x 90 Degree | 2 |

Notes

Section 3:

RAZR Opener

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Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.

Disc Opener Quick Reference Chart

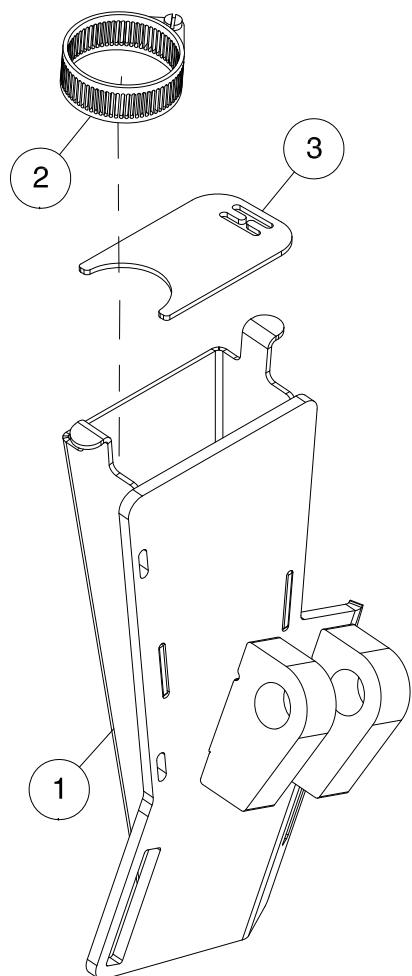
| Opener Right | Disc Hub | Disc Hub Assembly | Walking Beam |
|---------------------|-----------------|------------------------------|-------------------------|
| S51150 | S56607 | S50200 replaced by S56675 | S51155 |
| S55960 | S56607 | S56089 S60005 - 2020 | S55605 S67723 - 2020 |
| S60000 | S56607 | S60005 | S60007 S67723 - 2019 |
| <hr/> | | | |
| Opener Left | Disc Hub | Disc Hub Assembly | Walking Beam |
| S51170 | S56607 | S50465 replaced by S56680 | S51180 |
| S55965 | S56607 | S56086 S60017 - 2020 | S55956 S67724 - 2020 |
| S60015 | S56607 | S60017 | S60010 S67724 - 2019 |

Bearings used in all versions:

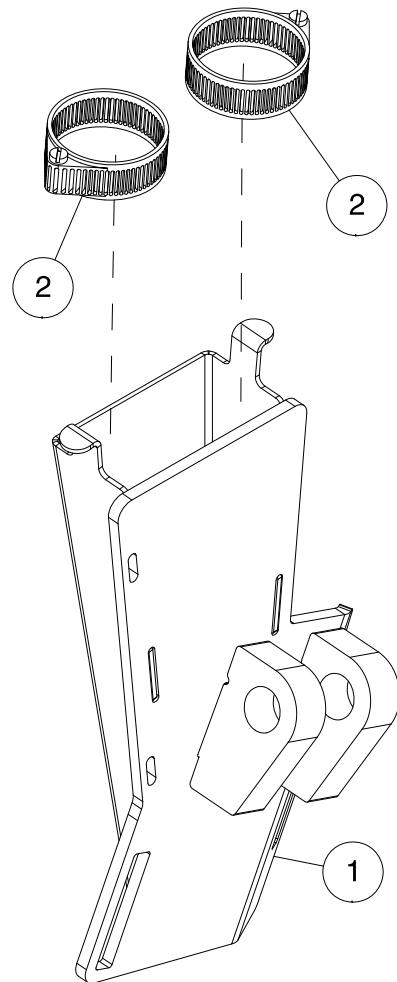
W-1474 Outer Wheel Bearing - LM48548
W-1537 Outer Bearing Cup - LM48510

Note: Australia release dates are mentioned below page headers when different.

**Disc Opener
Boot Hose Hardware - Prior to 2016**



Single Hose



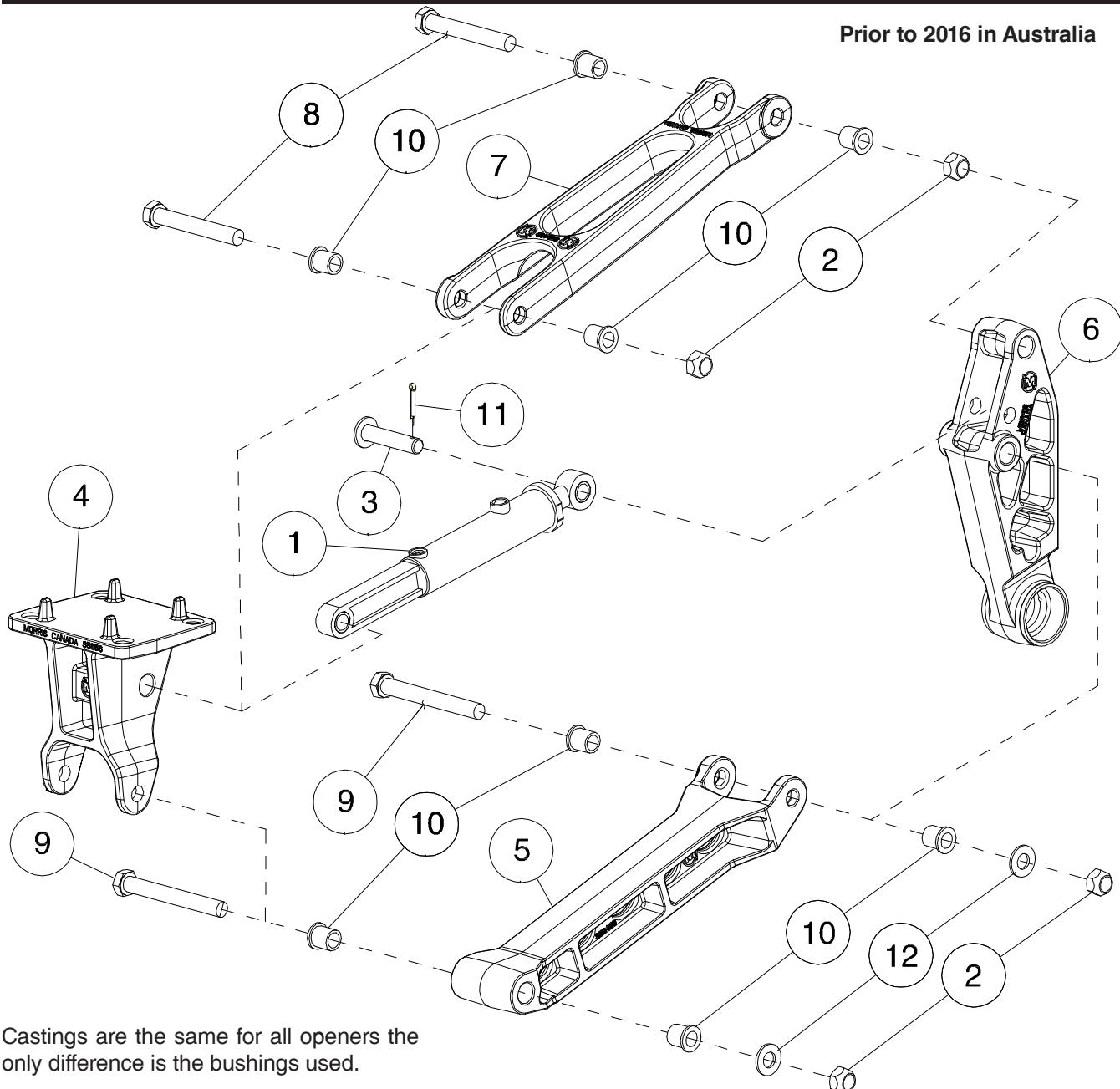
Double Hose

| Item | Part No. | Description | Qty |
|------|----------|------------------------------|-----|
| 1 | S53805 | Rear Seat Boot - Right..... | 1 |
| | S53835 | Rear Seat Boot - Left | 1 |
| 2 | N11470 | Hose Clamp HC5-20 - 1" | 1 |
| 3 | S53832 | Cover Plate | 1 |

Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.

**Disc Opener
Base Assembly - Prior to 2018**

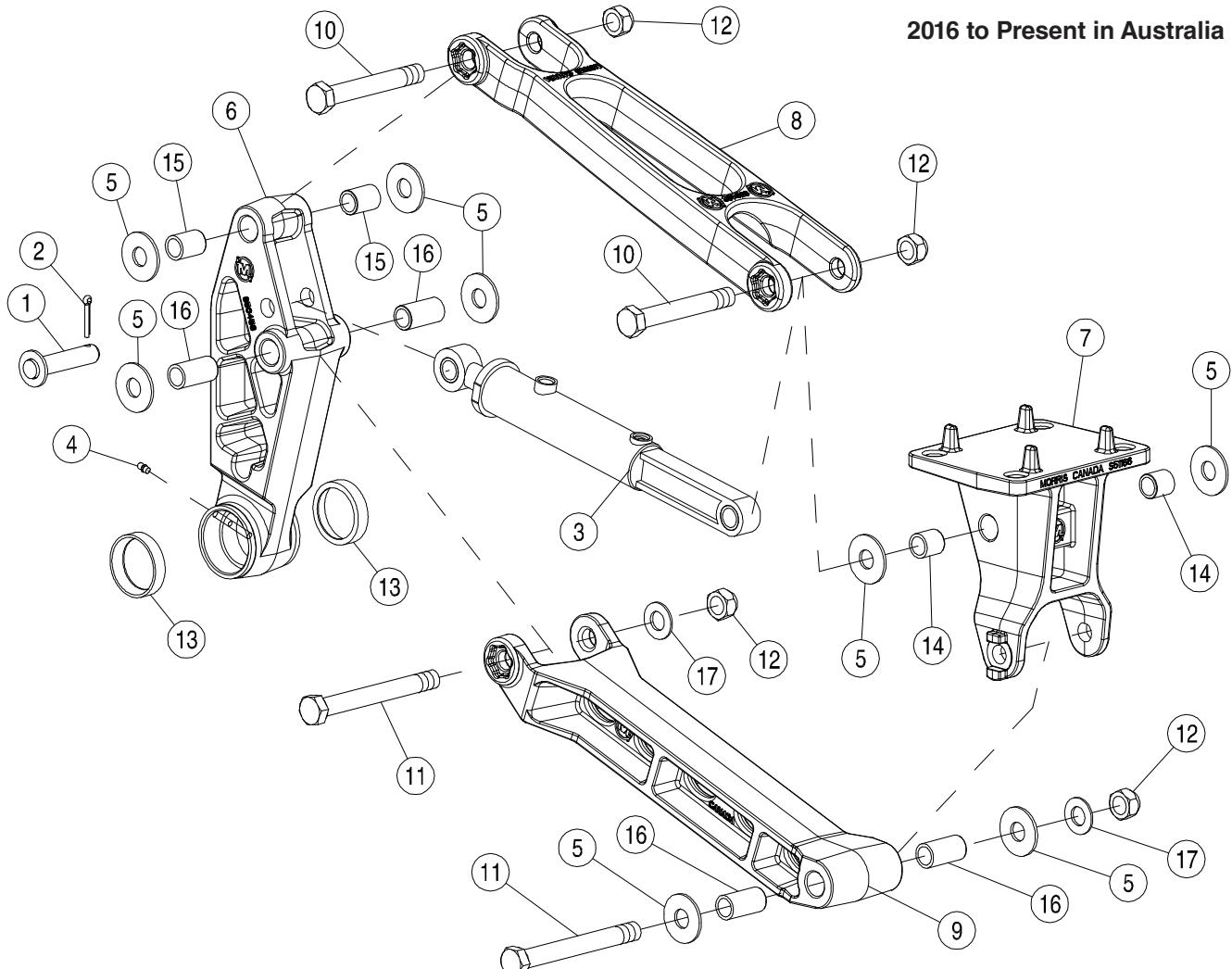
Prior to 2016 in Australia



| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C51153 | Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke | 1 |
| 2 | D-5273 | Locknut - 3/4 Unitorque..... | 4 |
| 3 | D12671 | Pivot Pin - 3/4 Dia x 2 7/8 UL..... | 1 |
| 4 | S51166 | Cast Mounting Bracket (Includes Items 10)..... | 1 |
| 5 | S50459 | Cast Lower Link (Includes Items 10) | 1 |
| 6 | S50458 | Cast Rear Link (Includes Items 10 and W-1537 Outer Bearing Cups) | 1 |
| 7 | S50462 | Top Link..... | 1 |
| 8 | S51004 | Hex Bolt - 3/4 x 5 1/4 Lg..... | 2 |
| 9 | S51006 | Hex Bolt - 3/4 x 6 3/8 Lg..... | 2 |
| 10 | S53833 | Flange Bushing | 8 |
| 11 | W-532 | Cotter Pin - 3/16 x 1 1/4 Lg | 1 |
| 12 | W-476 | Flatwasher - 13/16 ID x 1 1/2 OD x 11 Ga | 2 |

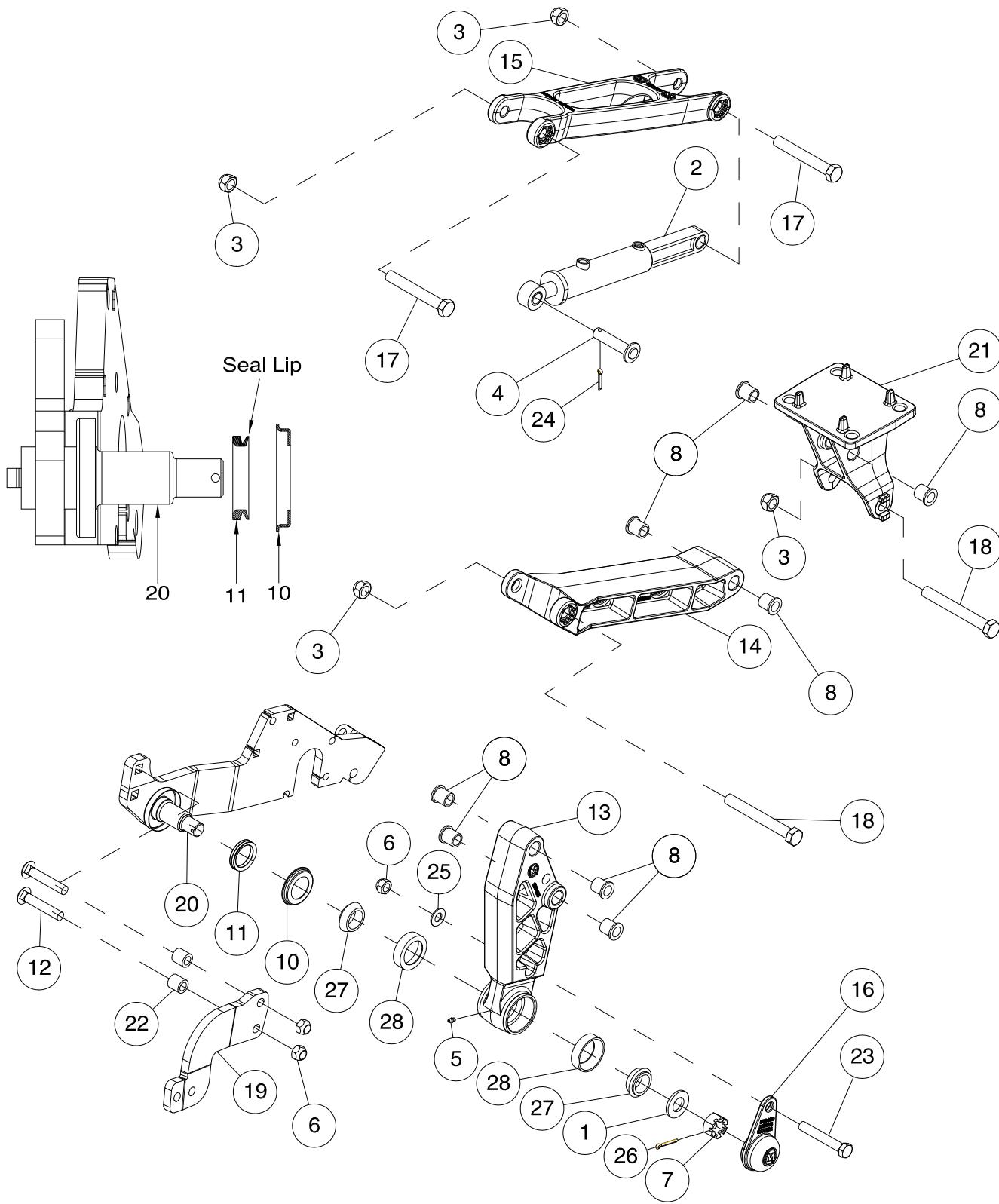
Disc Opener
Base Assembly - 2018 to Present

2016 to Present in Australia



| Item | Part No. | Description | Qty |
|-----------|---------------|---|-----|
| 1 | S59015 | S60000 and S60015 - Openers | |
| 2 | W-532 | Pin - 3/4 x 2 7/8 UL Chrome..... | 1 |
| 3 | C51153 | Cotter Pin - 3/16 x 1 1/4 Lg | 1 |
| 4 | S-752 | Cylinder - 1 3/4 Bore x 4 Stroke | 1 |
| 5 | S47384 | Grease Fitting - 1/4 Straight | 1 |
| 6 | S59840 | Wear Washer - 25/32 ID x 2 OD x 1/8 Thick Nylatron GS..... | 8 |
| 7 | S59830 | Cast Rear Link (Includes Items 13, 15 and 16)..... | 1 |
| 8 | S50462 | Cast Mounting Bracket (Includes Items 14)..... | 1 |
| 9 | S59835 | Top Link..... | 1 |
| 10 | S51004 | Cast Lower Link (Includes Items 16)..... | 1 |
| 11 | S62011 | Hex Bolt - 3/4 x 5 1/4 Lg..... | 2 |
| 11 | S59827 | Chrome Pin - 3/4 x 5 1/2 Lg - Parts only | |
| 11 | S58740 | Hex Bolt - 3/4 x 6 1/2 Lg..... | 2 |
| 12 | D-5273 | Chrome Pin - 3/4 x 6 3/8 Lg - Parts only | |
| 12 | W-1537 | Locknut - 3/4 Unitorque..... | 4 |
| 13 | S58744 | Outer Bearing Cup - LM48510 | 2 |
| 14 | S58746 | Q2 Bushing - 3/4 ID x 1 OD x 1 Lg | 2 |
| 15 | S58747 | Q2 Bushing - 3/4 ID x 1 OD x 1.313 Lg | 2 |
| 16 | W-476 | Q2 Bushing - 3/4 ID x 1 OD x 1.875 Lg | 4 |
| 17 | | Flatwasher - 13/16 ID x 1 1/2 OD x 11 Ga | 2 |

Disc Arm Assembly Right - Prior to 2015

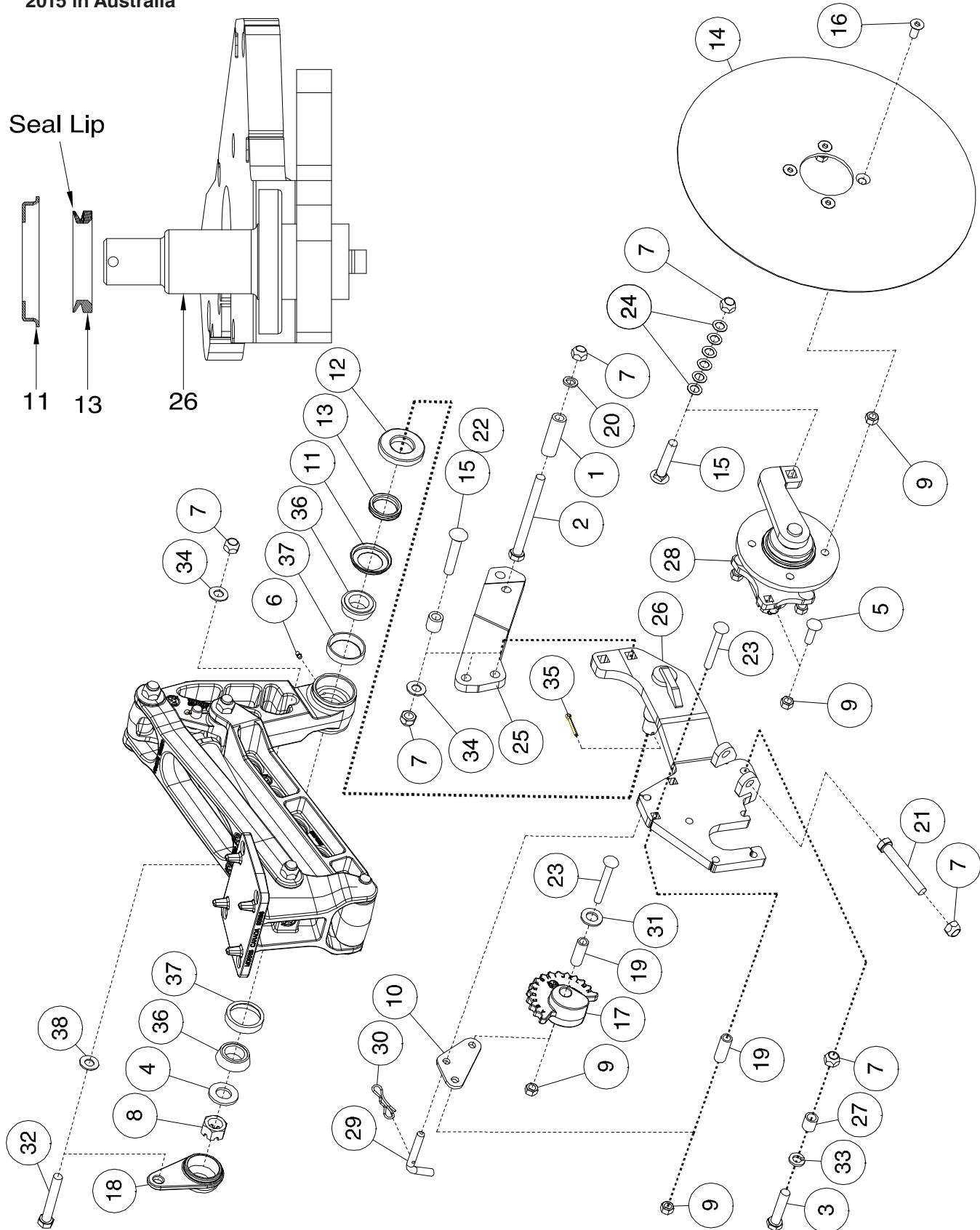


Disc Arm Assembly S51150 - Right - Prior to 2015

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| | | S51150 - Opener Right | |
| 1 | C-3258 | Washer - 1 1/32 ID x 2 OD x 3/16 thick..... | 1 |
| 2 | C51153 | Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke | 1 |
| 3 | D-5273 | Locknut - 3/4 Unitorque..... | 4 |
| 4 | D12671 | Pivot Pin - 3/4 Dia x 2 7/8 UL..... | 1 |
| 5 | S-752 | Grease Zerk - 1/4..... | 1 |
| 6 | S-1197 | Locknut - 5/8 Unitorque..... | 3 |
| 7 | S-1311 | Hex Slotted Nut - 1-14 UNS..... | 1 |
| 8 | S53833 | Flange Bushing - 3/4 ID x 1 OD x 1 1/8 Lg - August 2013 to present..... | 8 |
| | S44397 | Bushing - 3/4 ID x 1 OD x 1 Lg - Prior to August 2013 | 8 |
| | S47384 | Wear Washer - 25/32 ID x 2 OD x 1/8 Thick - Prior to August 2013 (Not shown) | 8 |
| 10 | S48827 | Seal Counterface | 1 |
| 11 | S48829 | V-Seal - 1 5/8 Shaft..... | 1 |
| 12 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 2 |
| 13 | S50458 | Rear Link..... | 1 |
| 14 | S50459 | Lower Link..... | 1 |
| 15 | S50462 | Top Link..... | 1 |
| 16 | S50489 | Dustcap..... | 1 |
| 17 | S51004 | Hex Bolt - 3/4 x 5 1/8 Lg..... | 2 |
| 18 | S51006 | Hex Bolt - 3/4 x 6 3/8 Lg..... | 2 |
| 19 | S51154 | Packer Arm Right | 1 |
| 20 | S51155 | Walking Bean - Right (S48828 - V-Seal Retainer)..... | 1 |
| 21 | S51166 | Mounting Bracket | 1 |
| 22 | S51312 | Bushing - .627/.632 ID x 1 OD x 1 Lg | 2 |
| 23 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 24 | W-532 | Cotter Pin - 3/16 x 1 1/4 | 1 |
| 25 | W-629 | Flat Washer - 5/8..... | 1 |
| 26 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 27 | W-1474 | Bearing Cone - 1 3/8 Bore | 2 |
| 28 | W-1537 | Bearing Cup | 2 |
| | | Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine. | |

Disc Arm Assembly
Right - 2015 to 2019

2015 in Australia

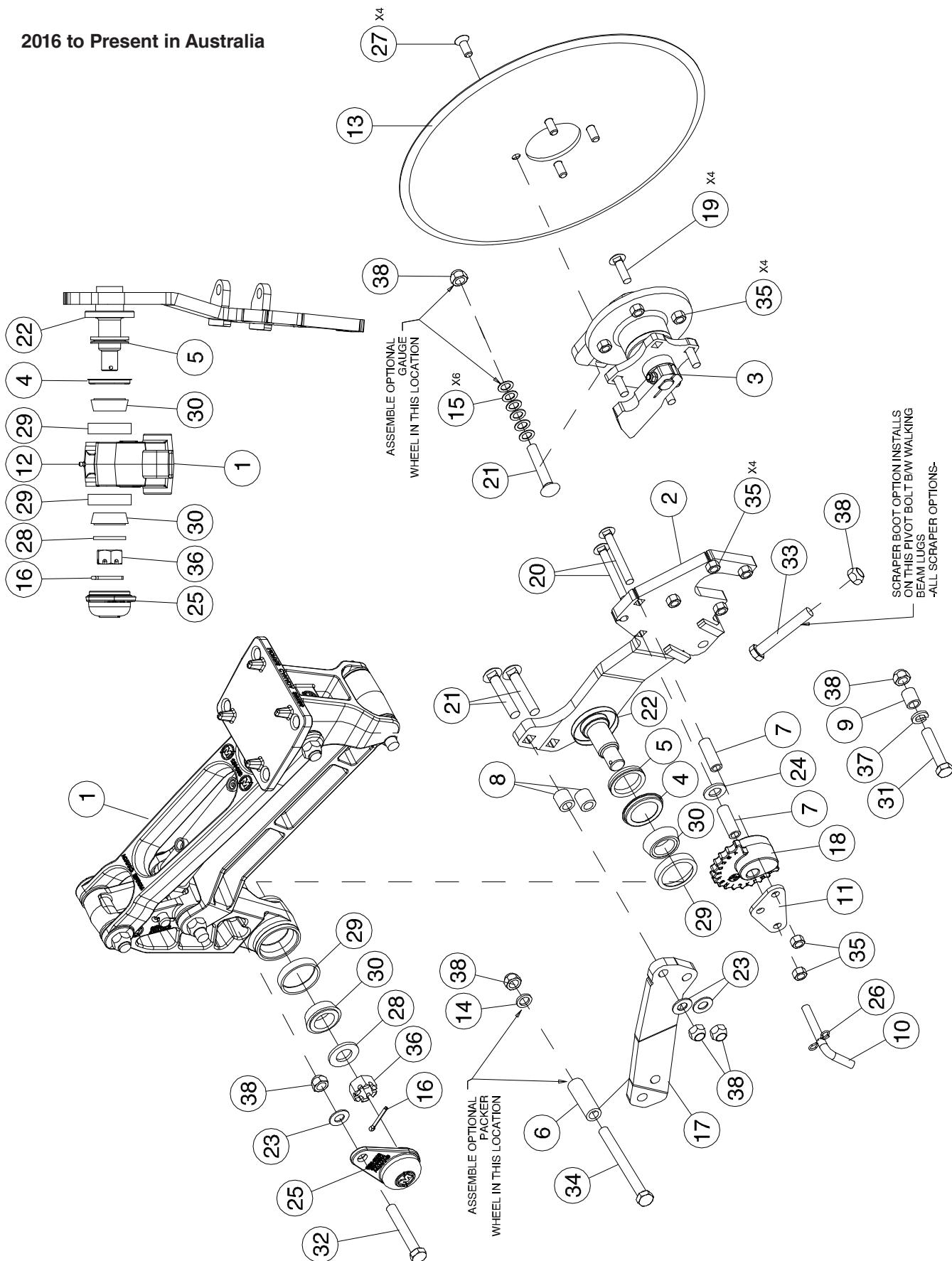


Disc Arm Assembly S55960 - Right - 2015 to 2019

| Item | Part No. | Description | Qty |
|------|---------------|--|-----|
| | | S55960 - Opener Right | |
| | | 2015 in Australia | |
| 1 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 4 | C-3258 | Flatwasher - 1 | 1 |
| 5 | D-5267 | Carriage Bolt - 1/2 x 1 3/4 Lg | 4 |
| 6 | S-752 | Grease Zerk - 1/4..... | 1 |
| 7 | S-1197 | Locknut - 5/8 Unitorque..... | 7 |
| 8 | S-1311 | Hex Slotted Nut - 1-14 UNs | 1 |
| 9 | S47110 | Hex Nut - 1/2 Center Lock..... | 10 |
| 10 | S47397 | Cam Holder Plate..... | 1 |
| 11 | S48827 | Seal Counterface | 1 |
| 12 | S48828 | Seal Retainer | 1 |
| 13 | S48829 | V-Seal - 1 5/8 Shaft..... | 1 |
| 14 | S48851 | Coutler Disc - 20" Dia | 1 |
| 15 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 3 |
| 16 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 Lg..... | 4 |
| 17 | S49260 | Depth Cam - Cast | 1 |
| 18 | S50489 | Dustcap..... | 1 |
| 19 | S51181 | Spacer Bushing - .510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 20 | S51182 | Flat Washer - 21/32ID x 1.0 OD x 10 Ga | 1 |
| 21 | S51307 | Hex Bolt - 5/8 x 4 1/4 Lg..... | 1 |
| 22 | S51312 | Bushing - .627/.632ID x 1 OD x 1 Lg | 2 |
| 23 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 24 | S55028 | Washer - 5/8 ID x 1 OD x 18Ga | 6 |
| 25 | S60022 | Packer Arm - Right - Dual Position Packer Arm | 1 |
| 26 | S55605 | Walking Beam Arm..... | 1 |
| 27 | S56059 | Spacer Bushing - .635 ID x 7/8 OD x 1 Lg..... | 1 |
| 28 | S56089 | Disc Hub Depth Assembly - Right - see pg 3-32..... | 1 |
| 29 | S56559 | Depth Pin - 1/2 Dia..... | 1 |
| 30 | S58710 | Lock Pin - 0.656 ID x 1.313 Lg | 1 |
| 31 | W-476 | Flat Washer - 3/4..... | 1 |
| 32 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 33 | W-526 | Lockwasher - 5/8..... | 1 |
| 34 | W-629 | Flat Washer - 5/8..... | 3 |
| 35 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 36 | W-1474 | Bearing Cone - 1 3/8 Bore | 2 |
| 37 | W-1537 | Bearing Cup | 2 |
| 38 | S-543 | Flat Washer - 3/4 ID x 1 1/4 OD x 14 Ga..... | 1 |

Disc Arm Assembly Right - 2020 to Present

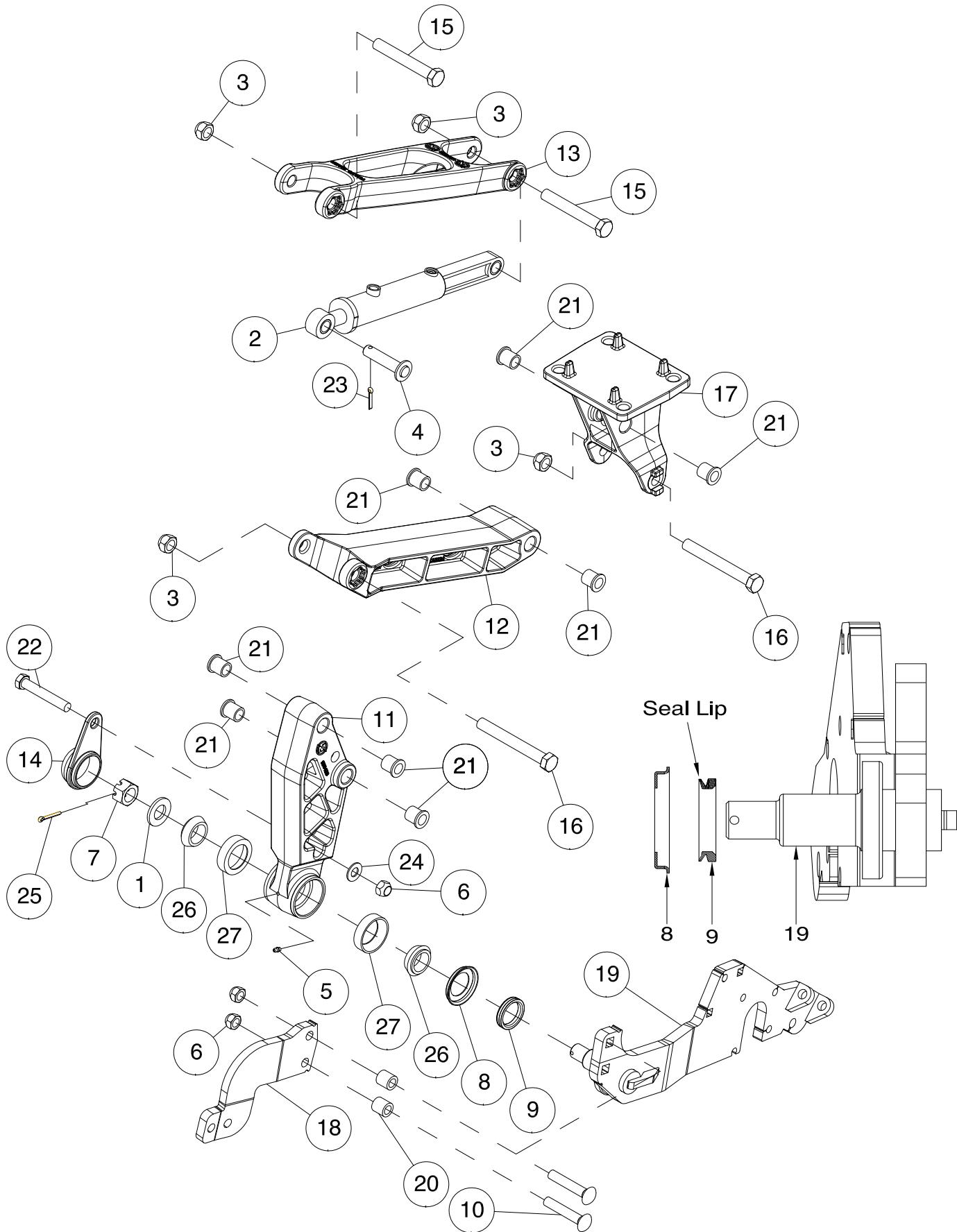
2016 to Present in Australia



Disc Arm Assembly S60000 - Right - 2020 to Present

| Item | Part No. | Description | Qty |
|------|---------------|---|-----|
| | | S60000 - Opener Right | |
| | | 2016 to Present in Australia | |
| 1 | ***** | Base Assembly - See Page 3-5 | 1 |
| 2 | S67723 | Walking Beam Arm - Right | 1 |
| 3 | S60007 | Self-Tightening Hub - Right - see pg 3-36..... | 1 |
| 4 | S56681 | Seal Counterface | 1 |
| 5 | S56679 | V-Seal - 1 3/4 Shaft | 1 |
| 6 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 7 | S51181 | Bushing - 0.510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 8 | S51312 | Bushing - 0.627/0.632 ID x 1 OD x 1 Lg | 2 |
| 9 | S56059 | Bushing - 0.635 ID x 7/8 OD x 1 Lg | 1 |
| 10 | S56559 | Depth Pin - 1/2 Dia..... | 1 |
| 11 | S47397 | Cam Holder Plate..... | 1 |
| 12 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 13 | S48851 | Coulter Disc - 1/4 Thick x 20 1/4 Dia | 1 |
| 14 | S51182 | Washer - 21/32 ID x 1 OD x 10Ga | 1 |
| 15 | S55028 | Washer - 5/8 ID x 1 OD x 18 Ga | 6 |
| 16 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 17 | S60022 | Packer Arm - Right | 1 |
| 18 | S49260 | Depth Cam | 1 |
| 19 | D-5267 | Carriage Bolt - 1/2 x 1-3/4 Lg | 4 |
| 20 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 21 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg..... | 3 |
| 22 | S56682 | Twine Wrap Guard - 1 3/4 Shaft..... | 1 |
| 23 | W-629 | Flat Washer - 5/8..... | 3 |
| 24 | W-476 | Flat Washer - 3/4 | 1 |
| 25 | S50489 | Dust Cap | 1 |
| 26 | S58710 | Hair Pin - 3/32 x 1/2 x 1 7/8 Lg - Self Locking..... | 1 |
| 27 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 | 4 |
| 28 | C-3258 | Flatwasher - 1 | 1 |
| 29 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| 30 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 31 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 32 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 33 | S51307 | Hex Bolt - 5/8 x 4 1/4 Lg..... | 1 |
| 34 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 35 | S47110 | Hex Nut - 1/2 Center Lock..... | 10 |
| 36 | S-1311 | Hex Slotted Nut - 1 | 1 |
| 37 | W-526 | Lockwasher - 5/8..... | 1 |
| 38 | S-1197 | Locknut - 5/8 Unitorque..... | 7 |

**Disc Arm Assembly
Left - Prior to 2015**

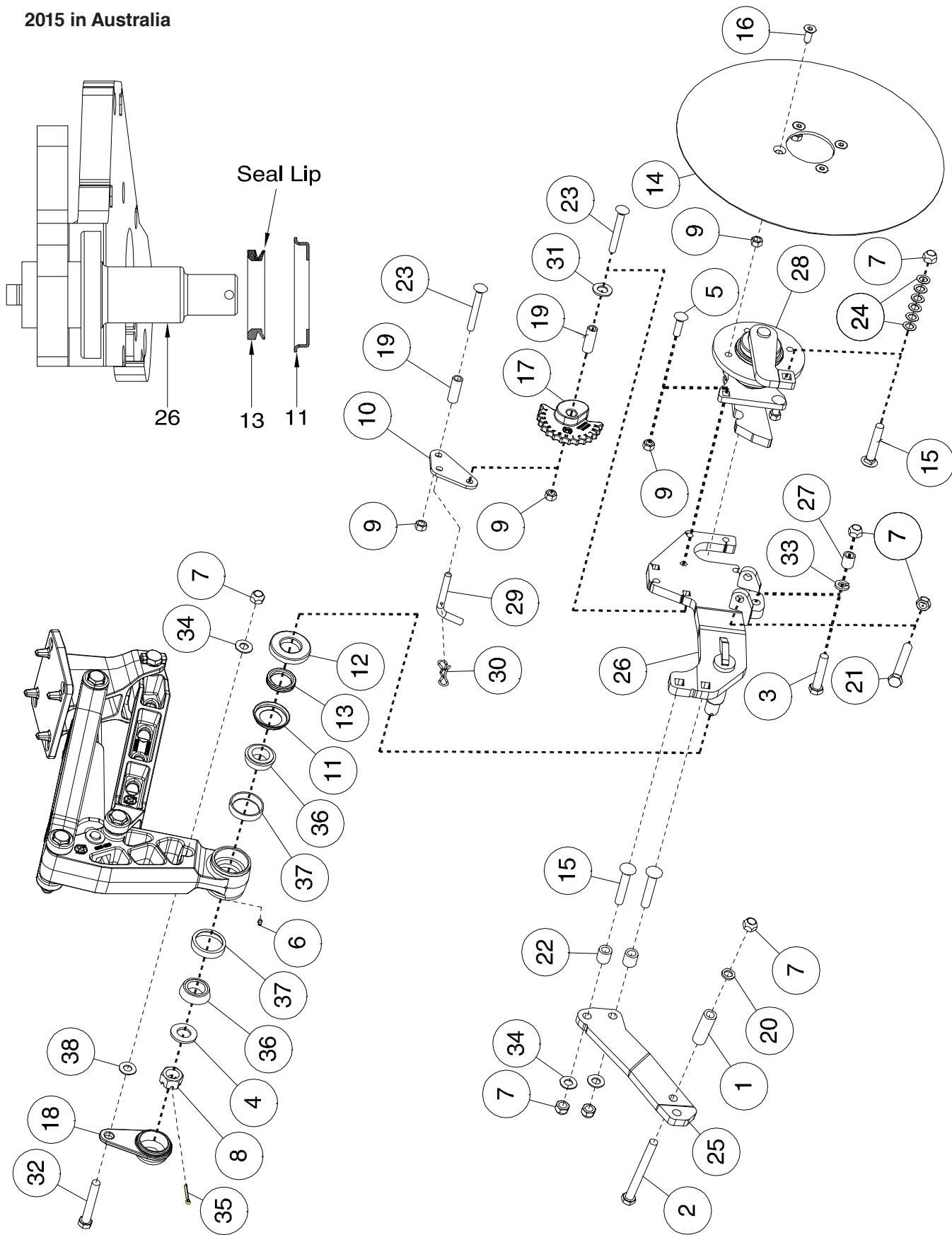


Disc Arm Assembly S51170 - Left - Prior to 2015

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| | | S51170 - Opener Left | |
| 1 | C-3258 | Flatwasher - 1 | 1 |
| 2 | C51153 | Hydraulic Cylinder - 1 3/4 Bore x 4 Stroke | 1 |
| 3 | D-5273 | Locknut - 3/4 Unitorque..... | 4 |
| 4 | D12671 | Pivot Pin - 3/4 Dia x 2 7/8 UL..... | 1 |
| 5 | S-752 | Grease Zerk - 1/4..... | 1 |
| 6 | S-1197 | Locknut - 5/8 Unitorque..... | 3 |
| 7 | S-1311 | Hex Slotted Nut - 1-14 UNS..... | 1 |
| 8 | S48827 | Seal Counterface | 1 |
| 9 | S48829 | V-Seal - 1 5/8 Shaft..... | 1 |
| 10 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 2 |
| 11 | S50458 | Rear Link..... | 1 |
| 12 | S50459 | Lower Link..... | 1 |
| 13 | S50462 | Top Link..... | 1 |
| 14 | S50489 | Dustcap..... | 1 |
| 15 | S51004 | Hex Bolt - 3/4 x 5 1/8 Lg..... | 2 |
| 16 | S51006 | Hex Bolt - 3/4 x 6 3/8 Lg..... | 2 |
| 17 | S51166 | Mounting Bracket | 1 |
| 18 | S51177 | Packer Arm Left..... | 1 |
| 19 | S51180 | Walking Beam Arm - Left (S48828 - V-Seal Retainer)..... | 1 |
| 20 | S51312 | Bushing - .627/.632 ID x 1 OD x 1 Lg | 2 |
| 21 | S53833 | Flange Bushing - 3/4 ID x 1 OD x 1 1/8 Lg - August 2013 to present..... | 8 |
| | S44397 | Bushing - 3/4 ID x 1 OD x 1 Lg - Prior to August 2013 | 8 |
| | S47384 | Wear Washer - 25/32 ID x 2 OD x 1/8 Thick - Prior to August 2013 (Not shown) | 8 |
| 22 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 23 | W-532 | Cotter Pin - 3/16 x 1 1/4 | 1 |
| 24 | W-629 | Flat Washer - 5/8..... | 1 |
| 25 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 26 | W-1474 | Bearing Cone - 1 3/8 Bore | 2 |
| 27 | W-1537 | Bearing Cup..... | 2 |
| | | Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine. | |

Disc Arm Assembly Left - 2015 to 2019

2015 in Australia

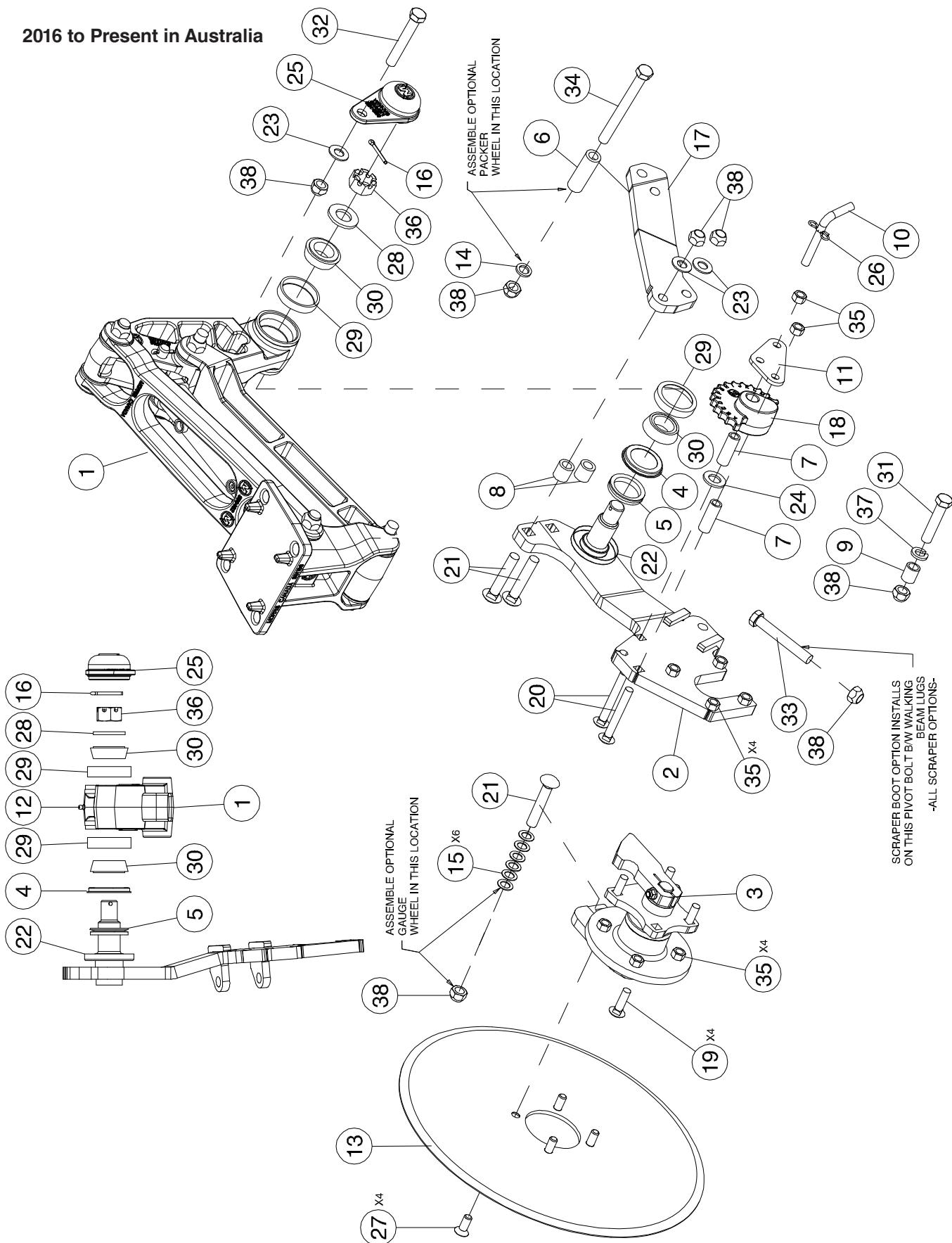


Disc Arm Assembly S55965 - Left - 2015 to 2019

| Item | Part No. | Description | Qty |
|------|---------------|--|-----|
| | | S55965 - Opener Left | |
| | | 2015 in Australia | |
| 1 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6-1/2 Lg | 1 |
| 3 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 4 | C-3258 | Flat Washer - 1 | 1 |
| 5 | D-5267 | Carriage Bolt - 1/2 x 1-3/4 Lg | 4 |
| 6 | S-752 | Grease Zerk - 1/4..... | 1 |
| 7 | S-1197 | Locknut - 5/8 Unitorque..... | 7 |
| 8 | S-1311 | Hex Slotted Nut - 1-14 UNS..... | 1 |
| 9 | S47110 | Hex Nut - 1/2 Center Lock..... | 10 |
| 10 | S47397 | Cam Holder Plate..... | 1 |
| 11 | S48827 | Seal Counterface | 1 |
| 12 | S48828 | Seal Retainer | 1 |
| 13 | S48829 | V-Seal 1-5/8 Shaft | 1 |
| 14 | S48851 | Coutler Disc - 20" Dia | 1 |
| 15 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg..... | 3 |
| 16 | S49253 | Flat Socket Cap Screw - 1/2 x 1-1/4 Lg..... | 4 |
| 17 | S49260 | Depth Cam - Cast | 1 |
| 18 | S50489 | Dustcap..... | 1 |
| 19 | S51181 | Spacer Bushing - .510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 20 | S51182 | Flat Washer - 21/32 ID x 1.0 OD x 10 Ga | 1 |
| 21 | S51307 | Hex Bolt - 5/8 x 4-1/4 Lg | 1 |
| 22 | S51312 | Bushing - .627/.632 ID x 1 OD x 1 Lg | 2 |
| 23 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 24 | S55028 | Flat Washer - 5/8 ID x 1 OD x 18 Ga..... | 6 |
| 25 | S60023 | Packer Arm - Left - Dual Position..... | 1 |
| 26 | S55956 | Walking Beam Arm - Left..... | 1 |
| 27 | S56059 | Spacer Bushing - .635 ID x 7/8 OD x 1 Lg..... | 1 |
| 28 | S56086 | Disc Hub Depth Assy - Left - see pg 3-33 | 1 |
| 29 | S56559 | Depth Pin - 1/2 Dia..... | 1 |
| 30 | S58710 | Lock Pin - 0.656 ID x 1.313 Lg | 1 |
| 31 | W-476 | Flat Washer - 3/4..... | 1 |
| 32 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 33 | W-526 | Lockwasher - 5/8..... | 1 |
| 34 | W-629 | Flat Washer - 5/8..... | 3 |
| 35 | W-1416 | Cotter Pin - 3/16 | 1 |
| 36 | W-1474 | Bearing Cone - 1 3/8 Bore | 2 |
| 37 | W-1537 | Bearing Cup | 2 |
| 38 | S-543 | Flat Washer - 3/4 ID x 1 1/4 OD x 14 Ga..... | 1 |

Disc Arm Assembly Left - 2020 to Present

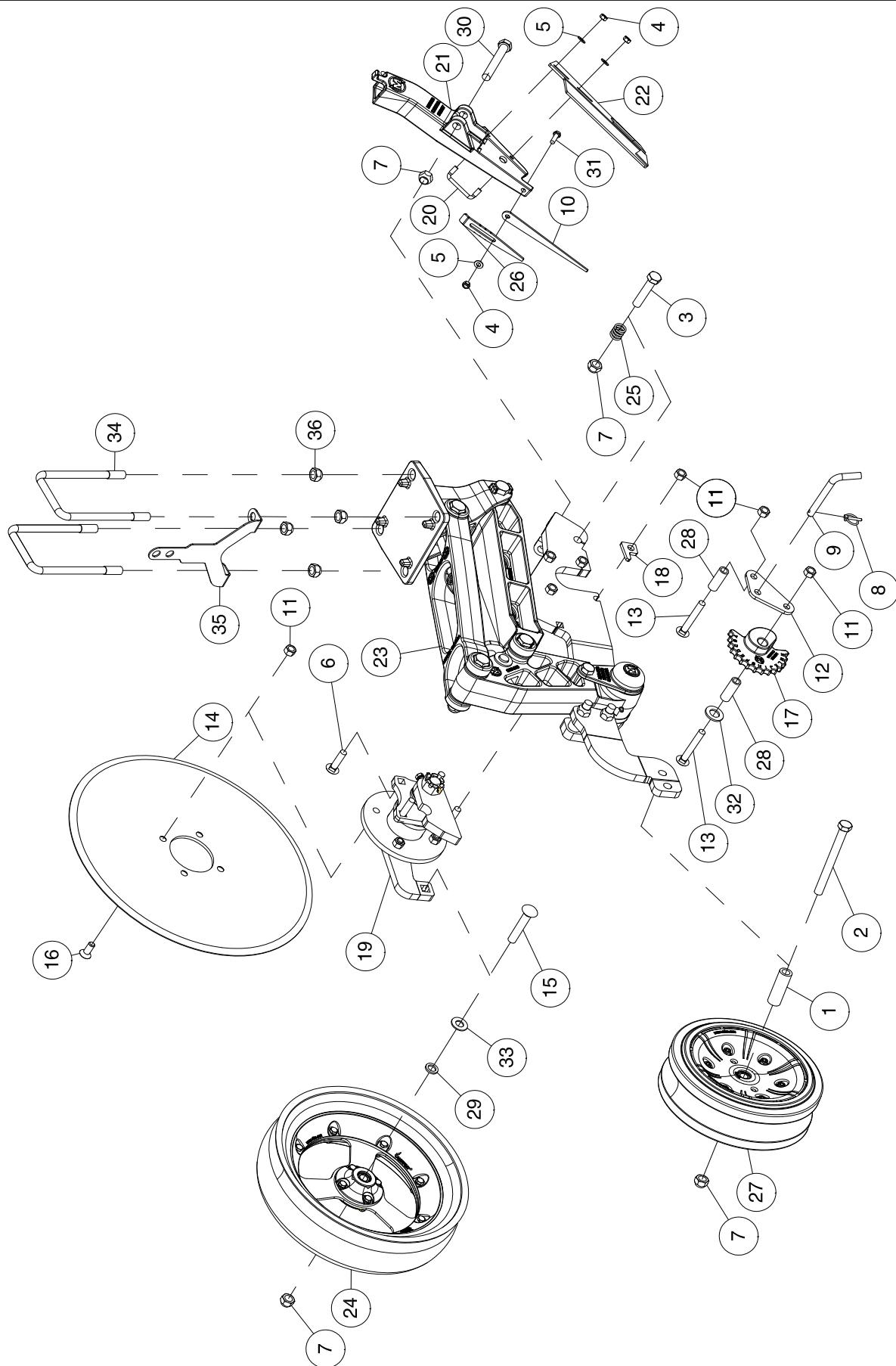
2016 to Present in Australia



Disc Arm Assembly S60015 - Left - 2020 to Present

| Item | Part No. | Description | Qty |
|------|---------------|---|-----|
| | | S60015 - Opener Left - | |
| | | 2016 to Present in Australia | |
| 1 | ***** | Base Assembly - See page 3-5..... | 1 |
| 2 | S67724 | Walking Beam Arm - Left | 1 |
| 3 | S60017 | Self-Tightening Hub - Left - see pg 3-37 | 1 |
| 4 | S56681 | Seal Counterface | 1 |
| 5 | S56679 | V-Seal - 1 3/4 Shaft..... | 1 |
| 6 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 7 | S51181 | Bushing - 0.510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 8 | S51312 | Bushing - 0.627/0.632 ID x 1 OD x 1 Lg | 2 |
| 9 | S56059 | Bushing - 0.635 ID x 7/8 OD x 1 Lg | 1 |
| 10 | S56559 | Depth Pin - 1/2 Dia..... | 1 |
| 11 | S47397 | Cam Holder Plate..... | 1 |
| 12 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 13 | S48851 | Coulter Disc - 1/4 Thick x 20 1/4 Dia..... | 1 |
| 14 | S51182 | Washer - 21/32 ID x 1 OD x 10Ga | 1 |
| 15 | S55028 | Washer - 5/8 ID x 1 OD x 18 Ga | 6 |
| 16 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 17 | S60023 | Packer Arm - Left..... | 1 |
| 18 | S49260 | Depth Cam..... | 1 |
| 19 | D-5267 | Carriage Bolt - 1/2 x 1-3/4 Lg | 4 |
| 20 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 21 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg..... | 3 |
| 22 | S56682 | Twine Wrap Guard - 1 3/4 Shaft..... | 1 |
| 50 | W-629 | Flat Washer - 5/8..... | 3 |
| 24 | W-476 | Flat Washer - 3/4..... | 1 |
| 25 | S50489 | Dust Cap | 1 |
| 26 | S58710 | Hair Pin - 3/32 x 1/2 x 1 7/8 Lg - Self Locking..... | 1 |
| 27 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4..... | 4 |
| 28 | C-3258 | Flatwasher - 1 | 1 |
| 29 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| 30 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 31 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 32 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 33 | S51307 | Hex Bolt - 5/8 x 4 1/4 Lg..... | 1 |
| 34 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 35 | S47110 | Hex Nut - 1/2 Center Lock..... | 10 |
| 36 | S-1311 | Hex Slotted Nut - 1 | 1 |
| 37 | W-526 | Lockwasher - 5/8..... | 1 |
| 38 | S-1197 | Locknut - 5/8 Unitorque..... | 7 |

Disc Opener - Right
Prior to August 2013

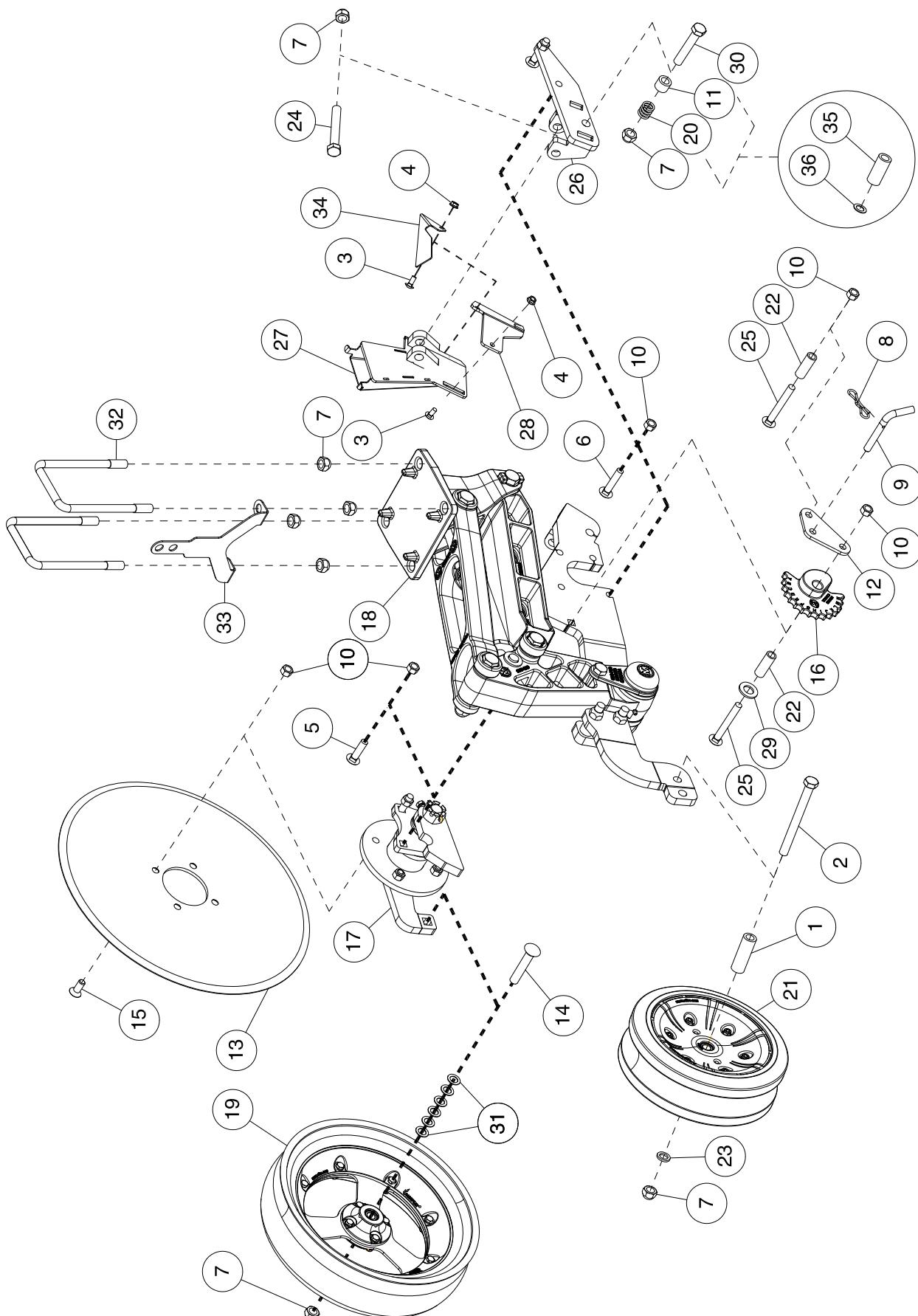


Disc Opener - Disc Assembly S51185 - Right - Prior to August 2013

| Item | Part No. | Description | Qty |
|-------------|-----------------|--|------------|
| 1 | AHH-96 | Bushing - 0.627 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 4 | C32925 | Center Locknut - 5/16..... | 3 |
| 5 | D-5488 | Washer - 11/32 ID x 11/16 OD x 16 Ga | 3 |
| 6 | D12820 | Carriage Bolt - 1/2 x 2 Lg | 4 |
| 7 | S-1197 | Unitorque Locknut - 5/8 | 8 |
| 8 | S42294 | Lynch Pin - 3/16 Dia x 1/14 Lg | 1 |
| 9 | S42659 | Depth Pin | 1 |
| 10 | S45856 | Seed Bounce Strip..... | 1 |
| 11 | S47110 | Center Lock Hex Nut - 1/2 | 10 |
| 12 | S47397 | Cam Holder Plate..... | 1 |
| 13 | S47593 | Carriage Bolt - 1/2 x 3 1/2 Lg | 2 |
| 14 | S48851 | Coutler Disc - 20" Dia | 1 |
| 15 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg | 1 |
| 16 | S49253 | Flat Socket Cap Screw - 1/2 x 1-1/4 | 4 |
| 17 | S49260 | Universal Cast Depth Cam..... | 1 |
| 18 | S49522 | Stop Plate | 1 |
| 19 | **** | Disc Hub Depth Assembly - Right - S50200 - See page 3-30 | 1 |
| 20 | S51036 | U-Bolt - 5/16 x 2-1/2 x 7/8UL..... | 1 |
| 21 | S51037 | Cast Scraper Boot Right | 1 |
| 22 | S51045 | Carbide Scraper Right..... | 1 |
| 23 | S51150 | Top End Sub-Assy Right | 1 |
| 24 | S51157 | 3 Spoke Gauge Wheel | 1 |
| 25 | S51163 | Scraper Compression Spring | 1 |
| 26 | S51164 | Seed Bounce Retainer..... | 1 |
| 27 | S51172 | Dual Rib Packer Wheel | 1 |
| 28 | S51181 | Spacer Bushing - .510ID x 3/4OD..... | 2 |
| 29 | S51182 | Washer - 21/32ID x 1.0 OD x 10Ga | 1 |
| 30 | S51307 | Hex Bolt - 5/8 x 4-1/4 Lg | 1 |
| 31 | W-471 | Hex Bolt - 5/16 x 1 Lg..... | 1 |
| 32 | W-476 | Flat Washer - 3/4 | 1 |
| 33 | W-629 | Flat Washer - 5/8 | 1 |
| 34 | S39649 | U-bolt - 5/8 x 4 7 3/4 Lg | 2 |
| | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used on wing truss mounts..... | AsReq |
| 35 | S48631 | Hydraulic Hose Holder | 1 |
| | N11470 | Hose Clamp | 1 |
| | S47076 | Secondary Hose Grommet Option - 15/16 ID Hose | 1 |

Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.

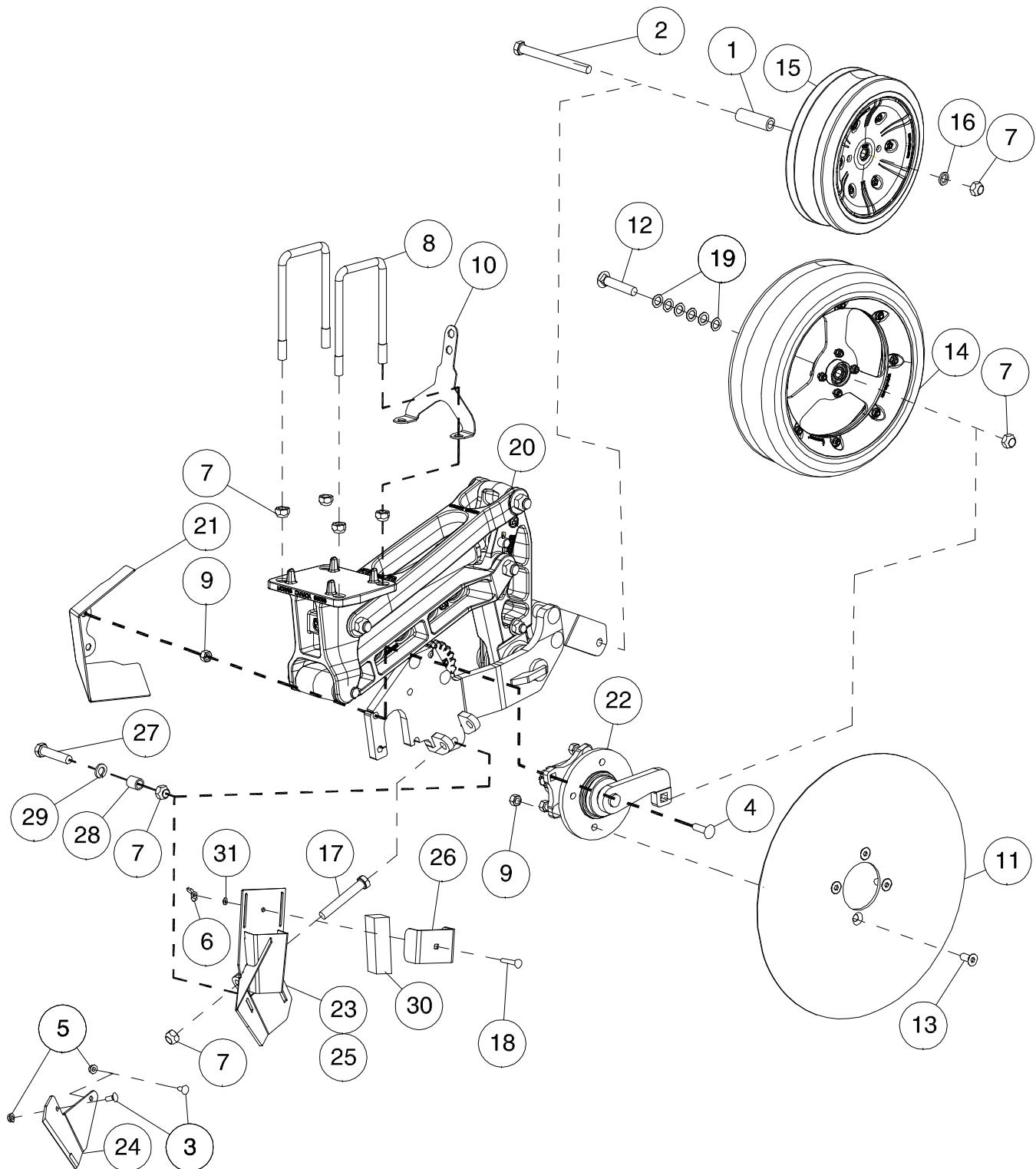
**Disc Opener - Right
Prior to 2015**



Disc Opener - Right - Prior to 2015

| Item | Part No. | Description | Qty |
|------|---------------|---|-------|
| 1 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6-1/2 Lg | 1 |
| 3 | D-5259 | Carriage Bolt - 5/16 x 3/4 Lg | 2 |
| 4 | D-5278 | Flange Lock Nut - 5/16..... | 2 |
| 5 | D12820 | Carriage Bolt - 1/2 x 2 Lg | 2 |
| 6 | J12190 | Carriage Bolt - 1/2 x 2 1/2 Lg | 2 |
| 7 | S-1197 | Locknut - 5/8 Unitorque..... | 8 |
| 8 | S56571 | Hair Pin - Self Locking - 0.12 Dia x 2 3/4 Lg | 1 |
| 9 | S56559 | Depth Pin | 1 |
| 10 | S47110 | Center Lock Hex Nut - 1/2 | 10 |
| 11 | S47395 | Spacer Bushing - .627 ID x 1 OD x 3/4 Lg..... | 1 |
| 12 | S47397 | Cam Holder Plate..... | 1 |
| 13 | S48851 | Coutler Disc - 20" Dia | 1 |
| 14 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 1 |
| 15 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 Lg..... | 4 |
| 16 | S49260 | Depth Cam - Cast | 1 |
| 17 | ***** | Disc Hub Depth Assembly - Right - S50200 - See page 3-30 | 1 |
| 18 | S51150 | Top End Sub-Assembly - Right | 1 |
| 19 | S51157 | Gauge Wheel - 3 Spoke | 1 |
| 20 | S51163 | Scraper Compression Spring | 1 |
| 21 | S51172 | Dual Rib Packer Wheel | 1 |
| 22 | S51181 | Spacer Bushing - .510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 23 | S51182 | Washer - 21/32 ID x 1.0 OD x 10Ga | 1 |
| 24 | S51307 | Hex Bolt - 5/8 x 4 1/4 Lg..... | 1 |
| 25 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 26 | S53800 | Scraper Pivot Brkt - Right..... | 1 |
| 27 | S53805 | Rear Seed Boot - Right..... | 1 |
| 28 | S53810 | Carbide Scraper - Right | 1 |
| 29 | W-476 | Flat Washer - 3/4..... | 1 |
| 30 | W-503 | Hex Bolt - 5/8 x 3 1/2 Lg..... | 1 |
| 31 | S55028 | Washer - 5/8 ID x 1 OD x 18Ga | 6 |
| 32 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 Lg | 2 |
| 33 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used on wing truss mounts | AsReq |
| 34 | S48631 | Hose Holder | 1 |
| 35 | S56458 | Trash Guard - Right..... | 1 |
| 36 | S56071 | SPACER BUSHING - 0.635 ID x 7/8 OD x 1 3/4 Lg | 1 |
| | W-526 | Lockwasher - 5/8 | 1 |
| | S46500 | Rear Scraper Kit Right - Contains items# (3, 4, 7, 11, 20, 24, 26, 28, & 30) | |
| | S56692 | KIT: SCRAPER - RIGHT- RAZR - Contains items# (3, 4, 27, 28 & 34) | |
| | S56694 | KIT: SCRAPER BUSHING - RAZR - Contains items# (35 & 36) For customers with trash plugging concerns. Bushing replaces the spring (S51163) and bushing (S47395) combo. This prevents the scraper from pulling away from the disc blade in tough trash conditions. | |
| | | Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine. | |

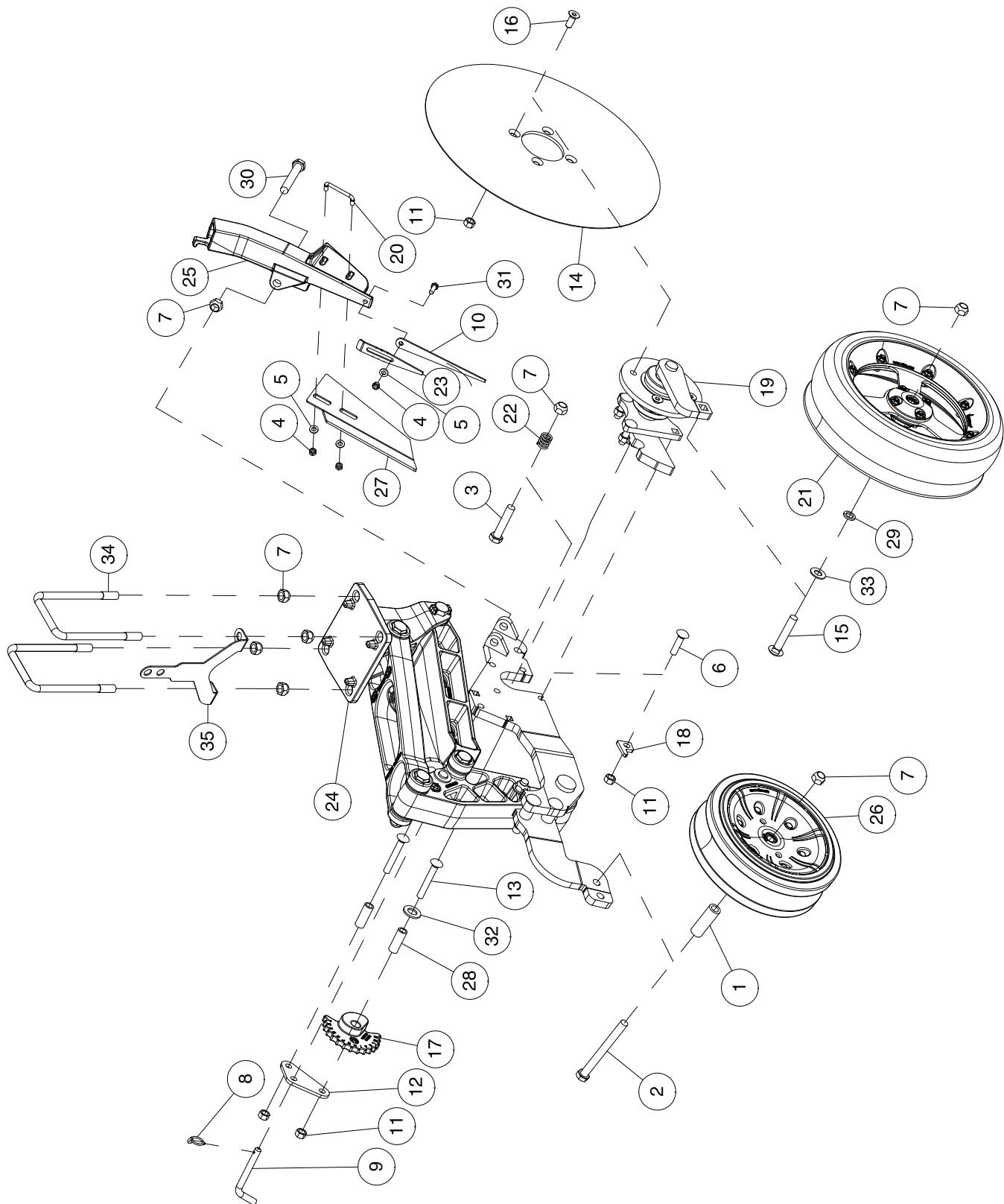
Disc Opener - Right
2015 to Present



Disc Opener - Right - 2015 to Present

| Item | Part No. | Description | Qty |
|------|---------------|---|-----|
| 1 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | D-5259 | Carriage Bolt - 5/16 x 3/4 Lg | 2 |
| 4 | D-5267 | Carriage Bolt - 1/2 x 1 3/4 Lg | 4 |
| 5 | D-5278 | Flange Lock Nut - 5/16..... | 2 |
| 6 | N31016 | Wing Nut - 5/16 - Prior 2018 | 1 |
| | N42098 | Locknut - 5/16 Nylon Insert - 2018 | |
| 7 | S-1197 | Locknut - 5/8 Unitorque..... | 8 |
| 8 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 2 |
| 9 | S47110 | Hex Nut - 1/2 Center Lock..... | 8 |
| 10 | S48631 | Hydraulic Hose Holder | 1 |
| 11 | S48851 | Coutler Disc - 20" Dia | 1 |
| 12 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 1 |
| 13 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 Lg..... | 4 |
| 14 | S51157 | Gauge Wheel - 3 Spoke | 1 |
| 15 | S51172 | Dual Rib Packer Wheel | 1 |
| 16 | S51182 | Washer - 21/32ID x 1.0 OD x 10Ga..... | 1 |
| 17 | S51307 | Hex Bolt - 5/8 x 4-1/4 Lg | 1 |
| 18 | S51466 | Carriage Bolt - 5/16 x 2 Lg | 1 |
| 19 | S55028 | Washer - 5/8 ID x 1 OD x 18Ga | 6 |
| 20 | S55960 | Right Row Unit (Includes Items #1, 2, 4, 7, 9, 11, 12, 13, 14, 16, 17, 19, 22, 28 & 29) | 1 |
| | S60000 | Opener Right - 2016 | |
| 21 | S56075 | Trash Shield - Optional | 1 |
| 22 | S56089 | Disc Hub Depth Assembly - Right - See Page 32 - 2015 to 2019 | 1 |
| | S60007 | Self-Tightening Hub - Right - See Page 3-36 - 2020 to Present | 1 |
| 23 | S56588 | Right Seed Boot..... | 1 |
| 24 | S56669 | Carbide Scraper - Right | 1 |
| 24A | S58630 | NH3 Scraper Carbide - Right | |
| 25 | S56690 | Tall Scraper Kit - Right (Contains Items# 3, 5, 6, 7, 18, 23, 24 & 26) | 1 |
| | S62200 | NH3 Tall Scraper Kit - Right (Contains Items# 3, 5, 6, 7, 18, 23, 24A & 26) | |
| 26 | S56725 | Hose Holder Clamp..... | 1 |
| 27 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 28 | S56059 | Bushing - 0.635 ID x 7/8 OD x 1 Lg | 1 |
| 29 | W-526 | Lockwasher - 5/8..... | 1 |
| 30 | S58014 | Seed Boot Plug - Prior 2018..... | 1 |
| | R480034 | Air Hose - 10" length - 2018 | |
| 31 | W-522 | Lockwasher - 5/16 - Prior 2018..... | 1 |

Disc Opener - Left
Prior to August 2013

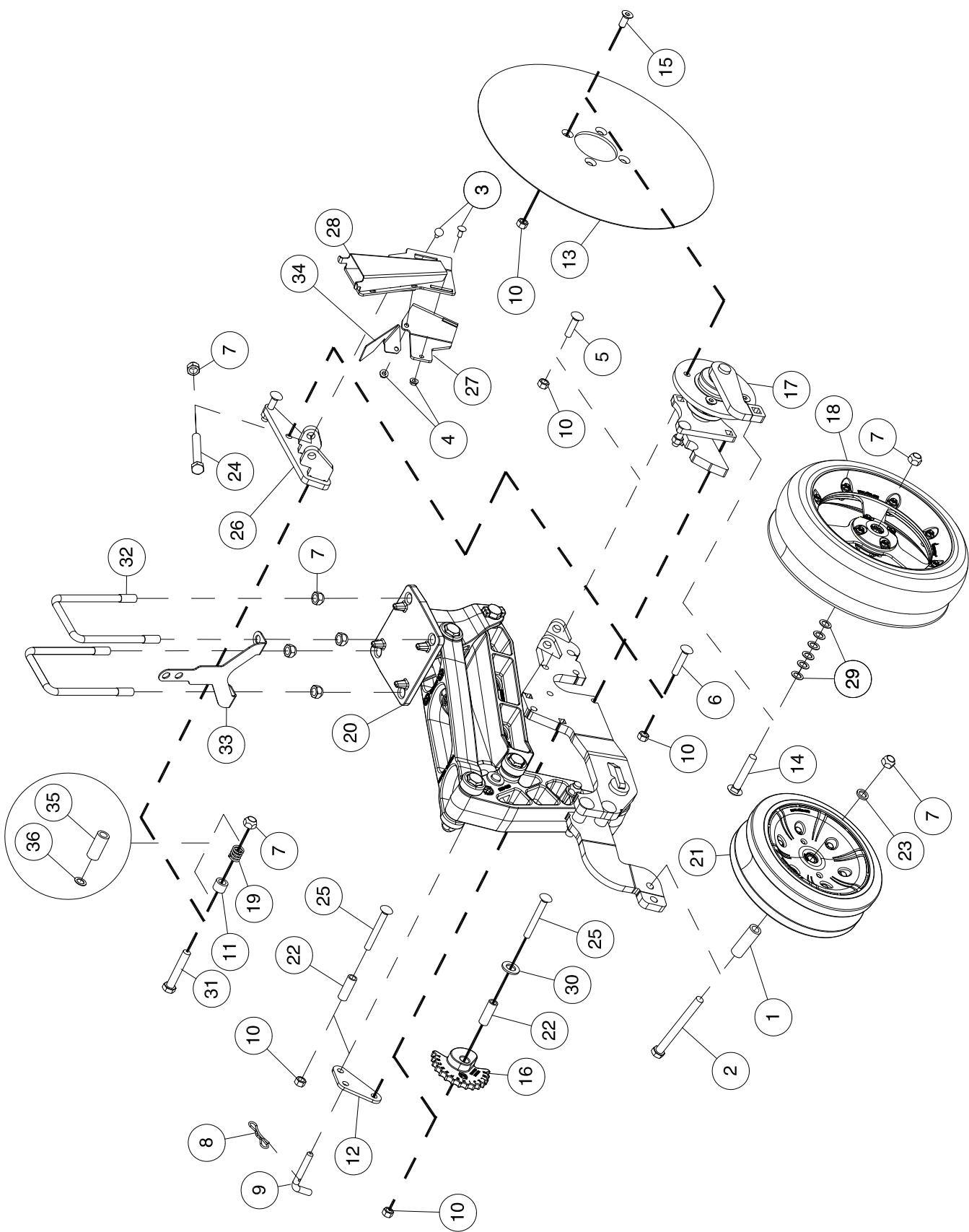


Disc Opener - Disc Assembly S51190 - Left - Prior to August 2013

| Item | Part No. | Description | Qty |
|------|----------|---|-------|
| 1 | AHH-96 | Bushing - 0.627 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 4 | C32925 | Center Locknut - 5/16..... | 3 |
| 5 | D-5488 | Washer - 11/32 ID x 11/16 OD x 16 Ga | 3 |
| 6 | D12820 | Carriage Bolt - 1/2 x 2 Lg | 4 |
| 7 | S-1197 | Unitorque Locknut - 5/8 | 8 |
| 8 | S42294 | Lynch Pin - 3/16 Dia x 1 1/4 Lg | 1 |
| 9 | S42659 | Depth Pin | 1 |
| 10 | S45856 | Seed Bounce Strip..... | 1 |
| 11 | S47110 | Center Lock Hex Nut - 1/2 | 10 |
| 12 | S47397 | Cam Holder Plate..... | 1 |
| 13 | S47593 | Carriage Bolt - 1/2 x 3 1/2 Lg | 2 |
| 14 | S48851 | Coutler Disc - 20" Dia | 1 |
| 15 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg | 1 |
| 16 | S49253 | Flat Socket Cap Screw - 1/2 x 1-1/4 | 4 |
| 17 | S49260 | Universal Cast Depth Cam..... | 1 |
| 18 | S49522 | Stop Plate | 1 |
| 19 | ***** | Disc Hub Depth Assembly - Left - S50465 - See page 3-31 | 1 |
| 20 | S51036 | U-Bolt - 5/16 x 2 1/2 x 7/8 UL..... | 1 |
| 21 | S51157 | 3 Spoke Gauge Wheel | 1 |
| 22 | S51163 | Scraper Compression Spring | 1 |
| 23 | S51164 | Seed Bounce Retainer | 1 |
| 24 | S51170 | Top End Sub-Assy Left..... | 1 |
| 25 | S51171 | Cast Scraper Boot Left..... | 1 |
| 26 | S51172 | Dual Rib Packer Wheel | 1 |
| 27 | S51175 | Carbide Scraper Left | 1 |
| 28 | S51181 | Spacer Bushing - .510 ID x 3/4 OD x 2 1/8 Lg | 2 |
| 29 | S51182 | Washer - 21/32ID x 1.0 OD x 10Ga | 1 |
| 30 | S51307 | Hex Bolt - 5/8 x 4-1/4 Lg | 1 |
| 31 | W-471 | Hex Bolt - 5/16 x 1 Lg..... | 1 |
| 32 | W-476 | Flat Washer - 3/4 | 1 |
| 33 | W-629 | Flat Washer - 5/8 | 1 |
| 34 | S39649 | U-bolt - 5/8 x 4 7 3/4 Lg | 2 |
| | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used on wing truss mounts..... | AsReq |
| 35 | S48631 | Hydraulic Hose Holder | 1 |
| | N11470 | Hose Clamp | 1 |
| | S47076 | Secondary Hose Grommet Option - 15/16 ID Hose | 1 |

Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.

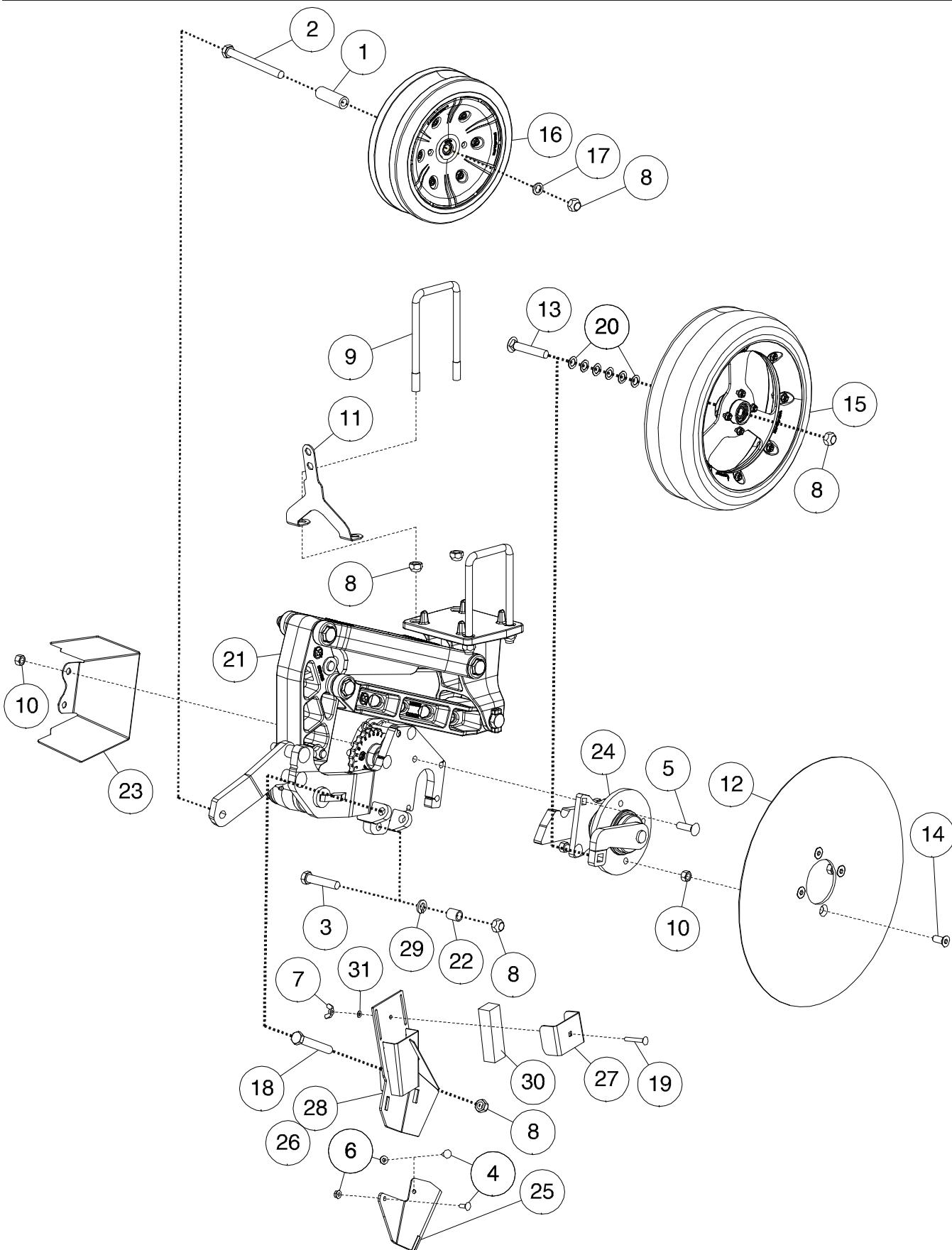
Disc Opener - Left
Prior to 2015



Disc Opener - Left - Prior to 2015

| Item | Part No. | Description | Qty |
|------|---------------|---|-------|
| 1 | AHH-96 | Bushing - 0.627 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | D-5259 | Carriage Bolt - 5/16 x 3/4 Lg | 2 |
| 4 | D-5278 | Flange Lock Nut - 5/16..... | 2 |
| 5 | D12820 | Carriage Bolt - 1/2 x 2 Lg | 2 |
| 6 | J12190 | Carriage Bolt - 1/2 x 2 1/2 Lg | 2 |
| 7 | S-1197 | Locknut - 5/8 Unitorque..... | 4 |
| 8 | S56571 | Hair Pin - Self Locking - 0.12 Dia x 2 3/4 Lg | 1 |
| 9 | S56559 | Depth Pin | 1 |
| 10 | S47110 | Center Lock Hex Nut - 1/2 | 10 |
| 11 | S47395 | Spacer Bushing - .627 ID x 1 OD x 3/4 Lg..... | 1 |
| 12 | S47397 | Cam Holder Plate..... | 1 |
| 13 | S48851 | Coutler Disc - 20" Dia | 1 |
| 14 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 1 |
| 15 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 Lg..... | 4 |
| 16 | S49260 | Universal Cast Depth Cam..... | 1 |
| 17 | ***** | Disc Hub Depth Assembly - Left - S50465 - See page 3-31 | 1 |
| 18 | S51157 | Gauge Wheel - 3 Spoke | 1 |
| 19 | S51163 | Scraper Compression Spring | 1 |
| 20 | S51170 | Top End Sub-Assembly - Left..... | 1 |
| 21 | S51172 | Dual Rib Packer Wheel | 1 |
| 22 | S51181 | Spacer Bushing - .510 ID x 3/4OD x 2 1/8 Lg | 2 |
| 23 | S51182 | Washer - 21/32ID x 1.0 OD x 10Ga..... | 1 |
| 24 | S51307 | Hex Bolt - 5/8 x 4 1/4 Lg..... | 1 |
| 25 | S51514 | Carriage Bolt - 1/2 x 4 Lg | 2 |
| 26 | S53830 | Scraper Pivot Bracket - Left..... | 1 |
| 27 | S53831 | Carbide Scraper - Left | 1 |
| 28 | S53835 | Rear Seed Boot - Left | 1 |
| 29 | S55028 | Machine Washer - 5/8 ID x 1 OD x 18Ga..... | 6 |
| 30 | W-476 | Flat Washer - 3/4 | 1 |
| 31 | W-503 | Hex Bolt - 5/8 x 3 1/2 Lg..... | 1 |
| 32 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 Lg | 2 |
| 33 | S53545 | Hex Bolt - 5/8 x 8 1/2 Lg - used on wing truss mounts | AsReq |
| 34 | S48631 | Hydraulic Hose Holder | 1 |
| 35 | S56564 | Trash Guard - Right..... | 1 |
| 36 | S56071 | SPACER BUSHING - 0.635 ID x 7/8 OD x 1 3/4 Lg | 1 |
| | W-526 | Lockwasher - 5/8 | 1 |
| | S46501 | Rear Scraper Kit Left - Contains items# (3, 4, 7, 11, 19, 24, 26, 27 & 31) | |
| | S56693 | KIT: SCRAPER - LEFT- RAZR - Contains items# (3, 4, 27, 28 & 34) | |
| | S56694 | KIT: SCRAPER BUSHING - RAZR - Contains items# (35 & 36) For customers with trash plugging concerns. Bushing replaces the spring (S51163) and bushing (S47395) combo. This prevents the scraper from pulling away from the disc blade in tough trash conditions. | |
| | | Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine. | |

Disc Opener - Left
2015 to Present



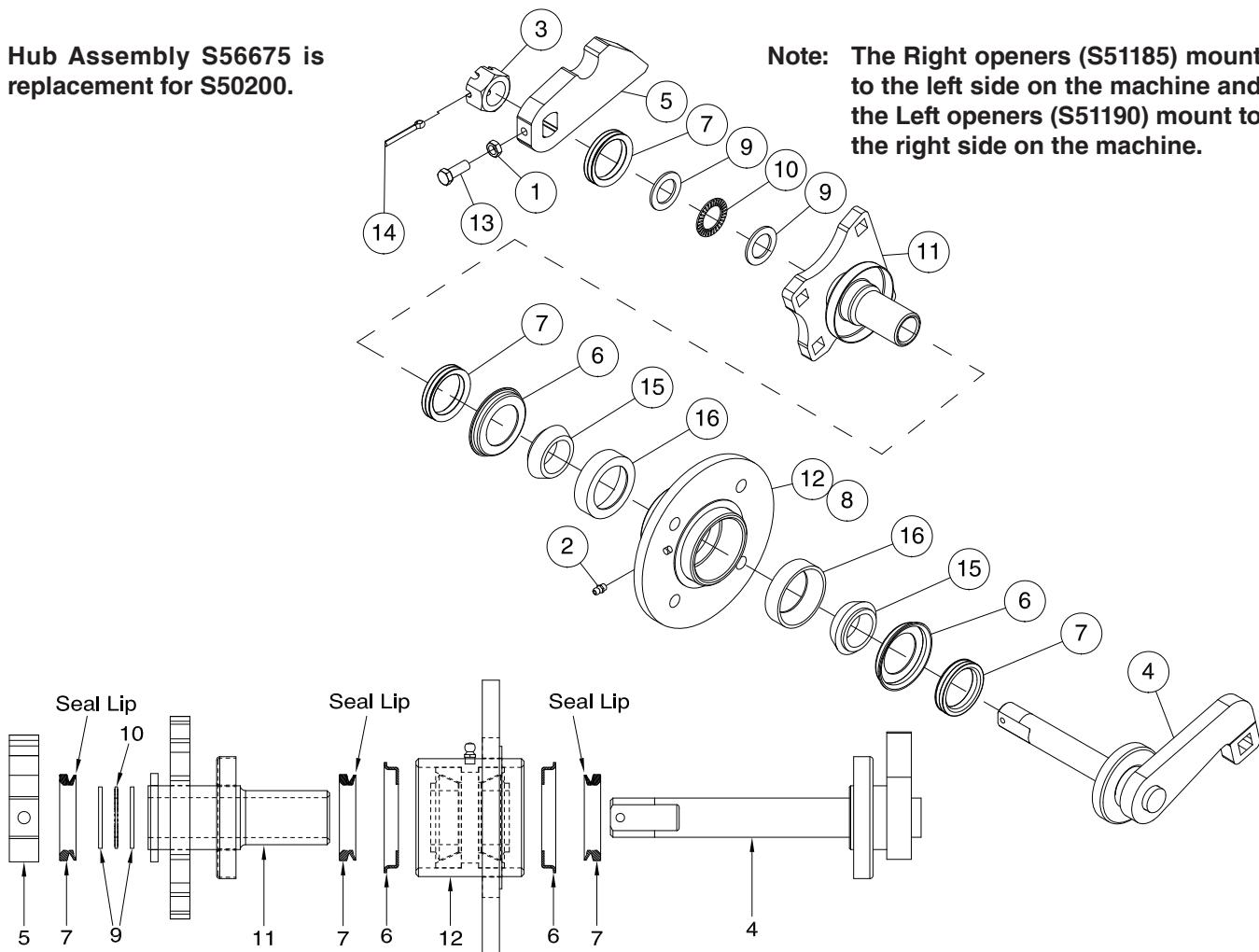
Disc Opener - Left - 2015 to Present

| Item | Part No. | Description | Qty |
|------|---------------|--|-----|
| 1 | AHH-96 | Bushing - .627/.632 ID x 1 OD x 3 Lg | 1 |
| 2 | C-508 | Hex Bolt - 5/8 x 6 1/2 Lg..... | 1 |
| 3 | C-3016 | Hex Bolt - 5/8 x 3 Lg..... | 1 |
| 4 | D-5259 | Carriage Bolt - 5/16 x 3/4 Lg | 2 |
| 5 | D-5267 | Carriage Bolt - 1/2 x 1 3/4 Lg | 4 |
| 6 | D-5278 | Flange Lock Nut - 5/16..... | 2 |
| 7 | N31016 | Wing Nut - 5/16 | 1 |
| | N42098 | Locknut - 5/16 | 1 |
| 8 | S-1197 | Locknut - 5/8 Unitorque..... | 11 |
| 9 | S39649 | U-Bolt - 5/8 x 4 x 7 3/4 | 2 |
| 10 | S47110 | Hex Nut - 1/2 Center Lock..... | 10 |
| 11 | S48631 | Hydraulic Hose Holder | 1 |
| 12 | S48851 | Coutler Disc - 20" Dia | 1 |
| 13 | S48856 | Carriage Bolt - 5/8 x 3 1/2 Lg | 3 |
| 14 | S49253 | Flat Socket Cap Screw - 1/2 x 1 1/4 Lg..... | 4 |
| 15 | S51157 | Gauge Wheel - 3 Spoke | 1 |
| 16 | S51172 | Dual Rib Packer Wheel | 1 |
| 17 | S51182 | Washer - 21/32ID x 1.0 OD x 10Ga | 1 |
| 18 | S51307 | Hex Bolt - 5/8 x 4-1/4 Lg | 1 |
| 19 | S51466 | Carriage Bolt - 5/16 x 2 Lg | 1 |
| 20 | S55028 | Washer - 5/8 ID x 1 OD x 18Ga | 6 |
| 21 | S55965 | Left Row Unit (Contains Items# 1, 2, 3, 5, 8, 10, 12, 13, 14, 17, 18, 20, 22, 24 & 29) | 1 |
| | S60015 | Opener Left - 2016 | |
| 22 | S56059 | Spacer Bushing - .635 ID x 7/8 OD x 1 Lg..... | 1 |
| 23 | S56075 | Trash Shield - Optional | 1 |
| 24 | S56086 | Disc Hub Depth Assembly - Left - See Page 3-33 - 2015 to 2019 | 1 |
| | S60017 | Self-Tightening Hub - Left - See Page 3-37 - 2019 to present..... | 1 |
| 25 | S56668 | Carbide Scraper - Left..... | 1 |
| 25A | S62053 | NH3 Scraper Carbide - Left | |
| 26 | S56695 | Tall Scraper Kit - Left (Contains Items# 4, 6, 7, 19, 25, 27 & 28) | 1 |
| | S62098 | NH3 Tall Scraper Kit - Left (Contains Items# 4, 6, 7, 19, 25A, 27 & 28) | |
| 27 | S56725 | Hose Holder Clamp..... | 1 |
| 28 | S56727 | Left Seed Boot | 1 |
| 29 | W-526 | Lockwasher - 5/8..... | 1 |
| 30 | S58014 | Seed Boot Plug - Prior 2018..... | 1 |
| | R480034 | Air Hose - 10" length - 2018 | |
| 31 | W-522 | Lockwasher - 5/16..... | 1 |

Disc Hub Assembly Right - S50200 - Prior to 2015

Hub Assembly S56675 is replacement for S50200.

Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.

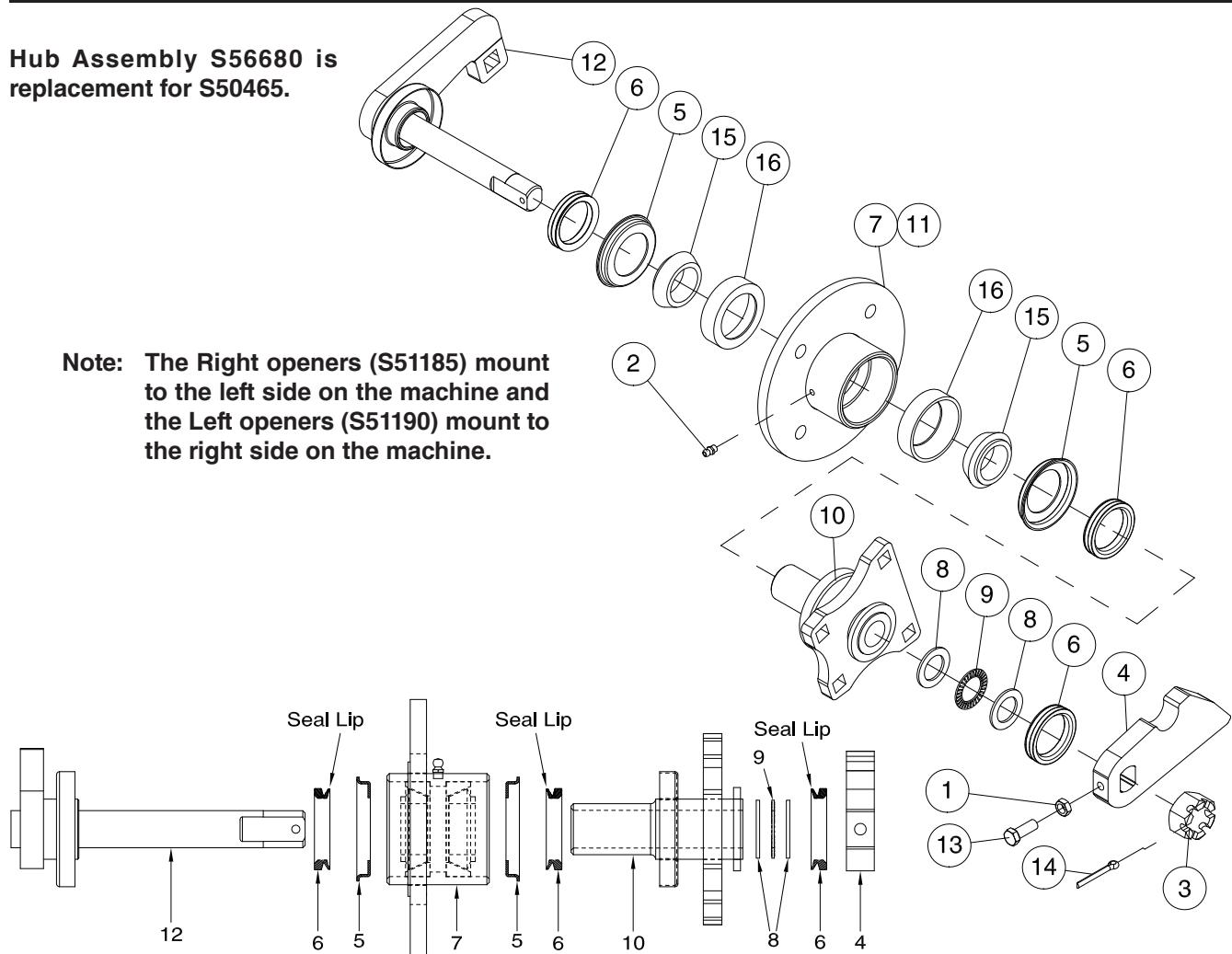


| Item | Part No. | Description | Qty |
|------|-------------------------|--|-----|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 UNS | 1 |
| 4 | S47985 | Gauge Wheel Spindle - Right (S48828 - V-Seal Retainer) | 1 |
| 5 | S48192 | Cam Stop Plate | 1 |
| 6 | S48827 | Seal Counterface | 2 |
| 7 | S48829 | V-Seal - 1 5/8 Shaft | 3 |
| 8 | S56607 | 4-Bolt Hub - Cast.. | 1 |
| 9 | S48863 | Thrust Washer | 2 |
| 10 | S48864 | Thrust Bearing - 1 ID x 1 9/16 OD | 1 |
| 11 | S48865 | Disc Spindle | 1 |
| 12 | S50207 | Disc Hub (Includes Items 6, 8, 15, 16) | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| | S46503 S60003 | Seal Kit - RAZR Disc Hub - Includes items 6 & 7 Kit: Field Gauge Wheel Spindle - Right (Kit allows the hubs to be overhauled if they run out of adjustment) | |

Disc Hub Assembly Left - S50465 - Prior to 2015

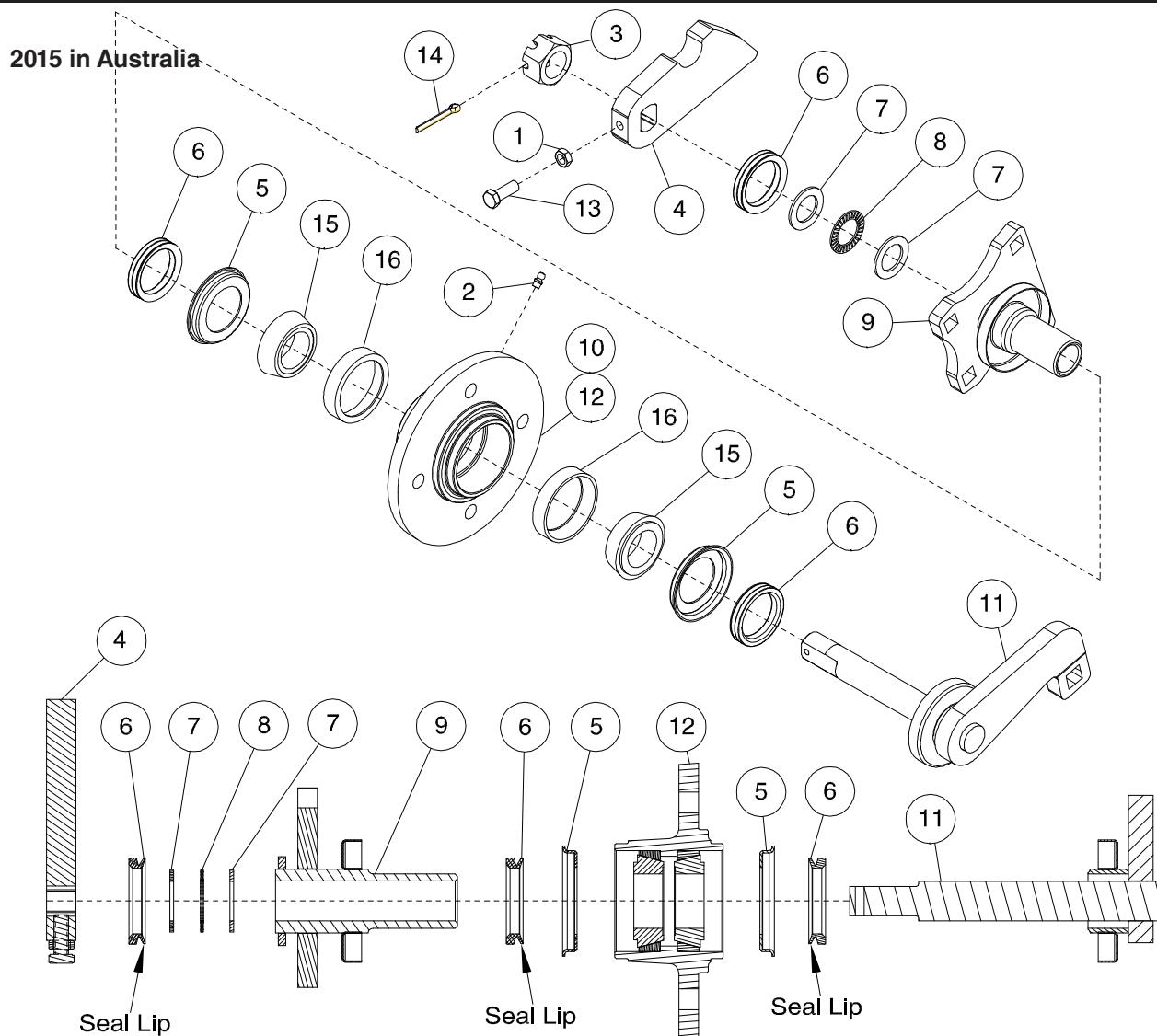
Hub Assembly S56680 is replacement for S50465.

Note: The Right openers (S51185) mount to the left side on the machine and the Left openers (S51190) mount to the right side on the machine.



| Item | Part No. | Description | Qty |
|--------------------------|---------------|---|----------|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Str. Grease Fitting - 1/4 | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 Uns | 1 |
| 4 | S48192 | Cam Stop Plate | 1 |
| 5 | S48827 | V-Seal Counterface | 2 |
| 6 | S48829 | V-Seal | 3 |
| 7 | S56607 | 4-Bolt Hub - Cast..... | 1 |
| 8 | S48863 | Hardened Thrust Washer | 2 |
| 9 | S48864 | Thrust Bearing - 1 ID x 1 9/16 OD | 1 |
| 10 | S48865 | Disc Spindle | 1 |
| 11 | S50207 | Disc Hub (Includes Items 5, 7, 15, 16) | 1 |
| 12 | S50460 | Gauge Wheel Spindle - Left (S48828 - V-Seal Retainer) | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| S46503 S60004 | | Seal Kit - RAZR Disc Hub - Includes items 5 & 6 Kit: Field Gauge Wheel Spindle - Left (Kit allows the hubs to be overhauled if they run out of adjustment) | |

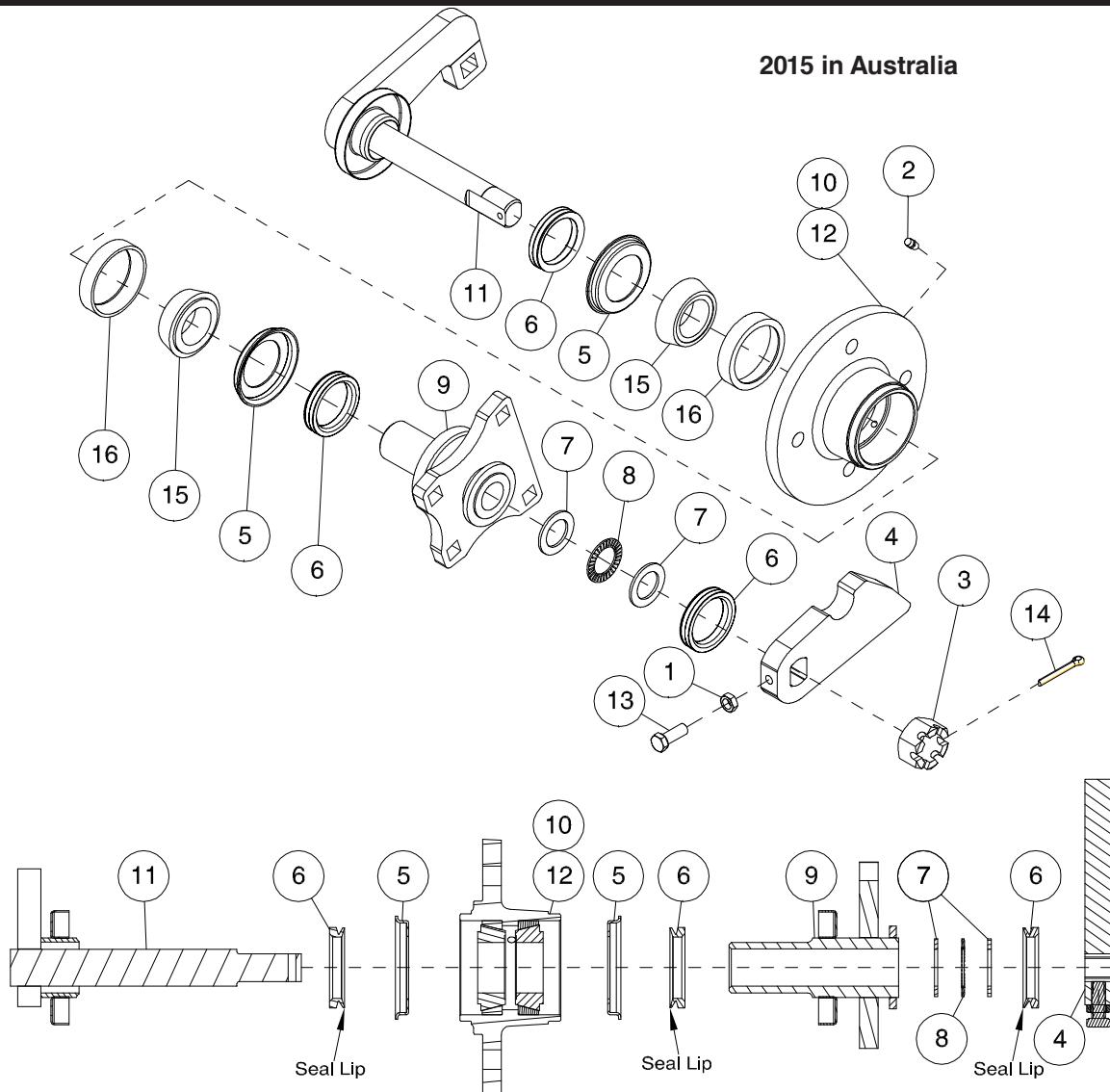
**Disc Hub Assembly
Right - S56089 - 2015 to 2019**



| Item | Part No. | Description | Qty |
|--------|----------|--|-----|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 UNS | 1 |
| 4 | S48192 | Cam Stop Plate | 1 |
| 5 | S48827 | Seal Counterface - 1 5/8 Shaft | 2 |
| 6 | S48829 | V-Seal - 1 5/8 Shaft | 3 |
| 7 | S48863 | Thrust Washer Hardened - 1.00ID X 1.562 OD x 0.095 Thick | 2 |
| 8 | S48864 | Thrust Roller Bearing - 1 ID x 1 9/16 OD | 1 |
| 9 | S48865 | Disc Spindle - 1 5/8 | 1 |
| 10 | S50207 | Disc Hub Assembly (Includes Items #5, 12, 15 & 16) | 1 |
| 11 | S56088 | Gauge Wheel Spindle - Right (S48828 - V-Seal Retainer) | 1 |
| 12 | S56607 | 4-Bolt Hub - Cast | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| S46503 | | Seal Kit - RAZR Disc Hub - Includes items 5 & 6 | 2 |
| S60003 | | Kit: Field Gauge Wheel Spindle - Right (Kit allows the hubs to be overhauled if they run out of adjustment) | |

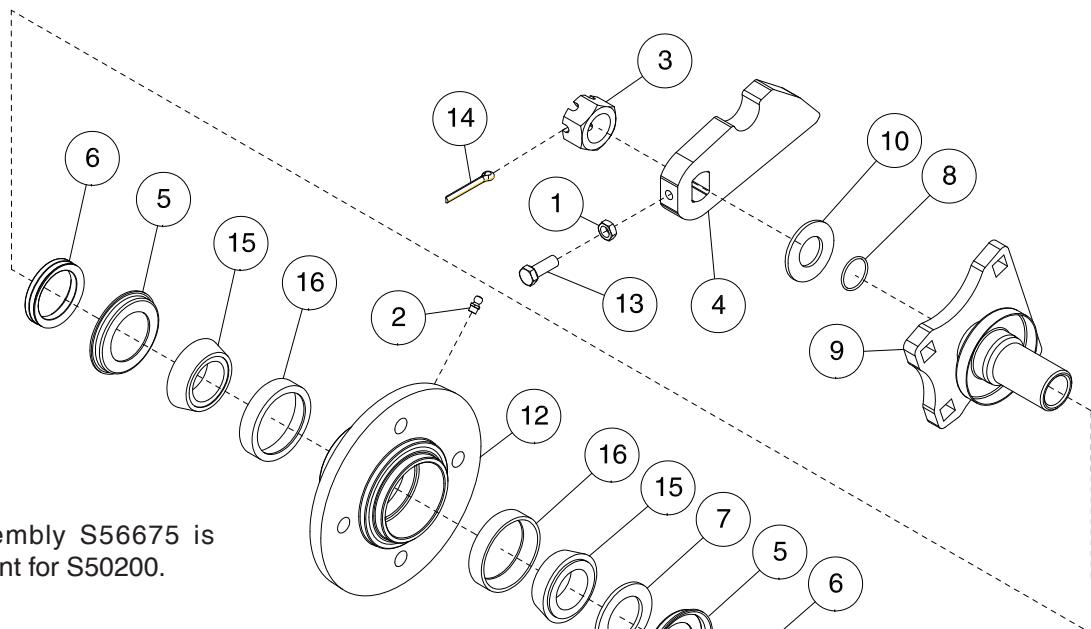
**Disc Hub Assembly
Left - S56086 - 2015 to 2019**

2015 in Australia

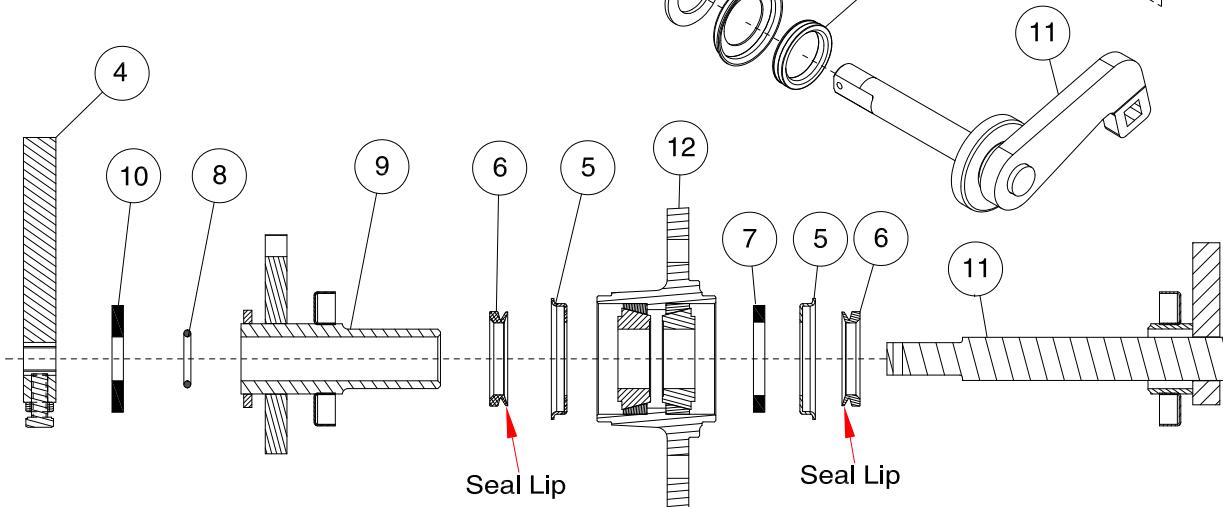


| Item | Part No. | Description | Qty |
|------|---------------|---|-----|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 UNS..... | 1 |
| 4 | S48192 | Cam Stop Plate | 1 |
| 5 | S48827 | Seal Counterface - 1 5/8 Shaft..... | 2 |
| 6 | S48829 | V-Seal - 1 5/8 Shaft..... | 3 |
| 7 | S48863 | Thrust Washer Hardened - 1.00ID X 1.562 OD x 0.095 Thick..... | 2 |
| 8 | S48864 | Thrust Roller Bearing - 1 ID x 1 9/16 OD | 1 |
| 9 | S48865 | Disc Spindle - 1 5/8..... | 1 |
| 10 | S50207 | Disc Hub Assembly (Includes Items #5, 12, 15 & 16) | 1 |
| 11 | S56084 | Gauge Wheel Spindle - Left (S48828 - V-Seal Retainer) | 1 |
| 12 | S56607 | 4-Bolt Hub - Cast | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |
| | S46503 | Seal Kit - RAZR Disc Hub - Includes items 5 & 6 | |
| | S60004 | Kit: Field Gauge Wheel Spindle - Left (Kit allows the hubs to be overhauled if they run out of adjustment) | |

Disc Hub Assembly Right - S56675



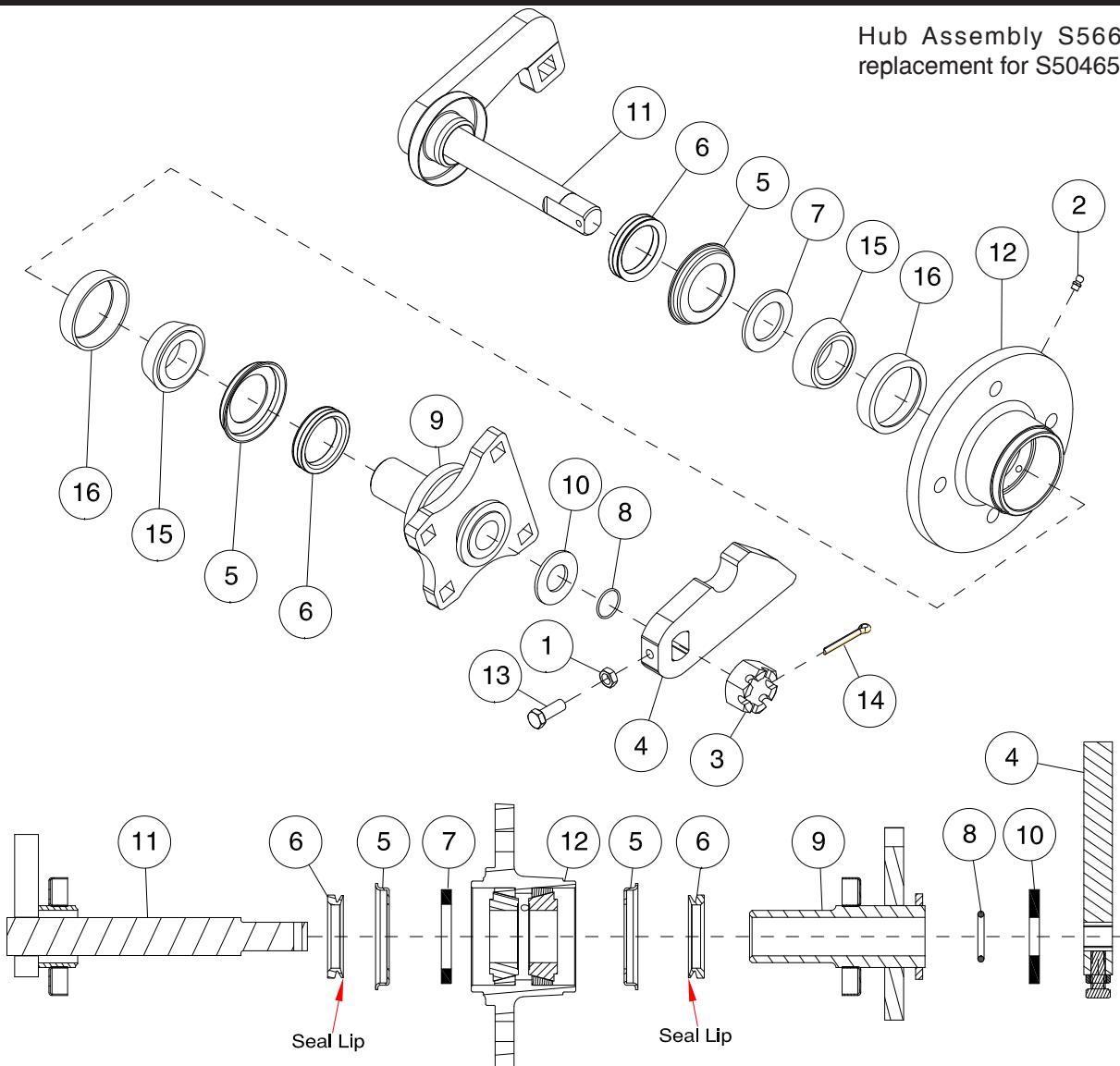
Hub Assembly S56675 is replacement for S50200.



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 Uns | 1 |
| 4 | S48192 | Cam Stop Plate | 1 |
| 5 | S56681 | Seal Counterface - 1 3/4 Shaft | 2 |
| 6 | S56679 | V-Seal - 1 3/4 Shaft | 2 |
| 7 | S56637 | Thrust Washer Hardened - 1.5 ID x 2.00 OD x 0.167 Thick | 1 |
| 8 | S56629 | O-Ring - 214 AS-568 | 1 |
| 9 | S56685 | Disc Hub Spindle - 1 3/4 | 1 |
| 10 | S56673 | Thrust Washer Nylatron - 1-1/64 ID x 2 OD x 1/4 Thick | 1 |
| 11 | S56683 | Gauge Wheel Spindle - Right | 1 |
| 12 | S56607 | 4-Bolt Hub - Cast | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |

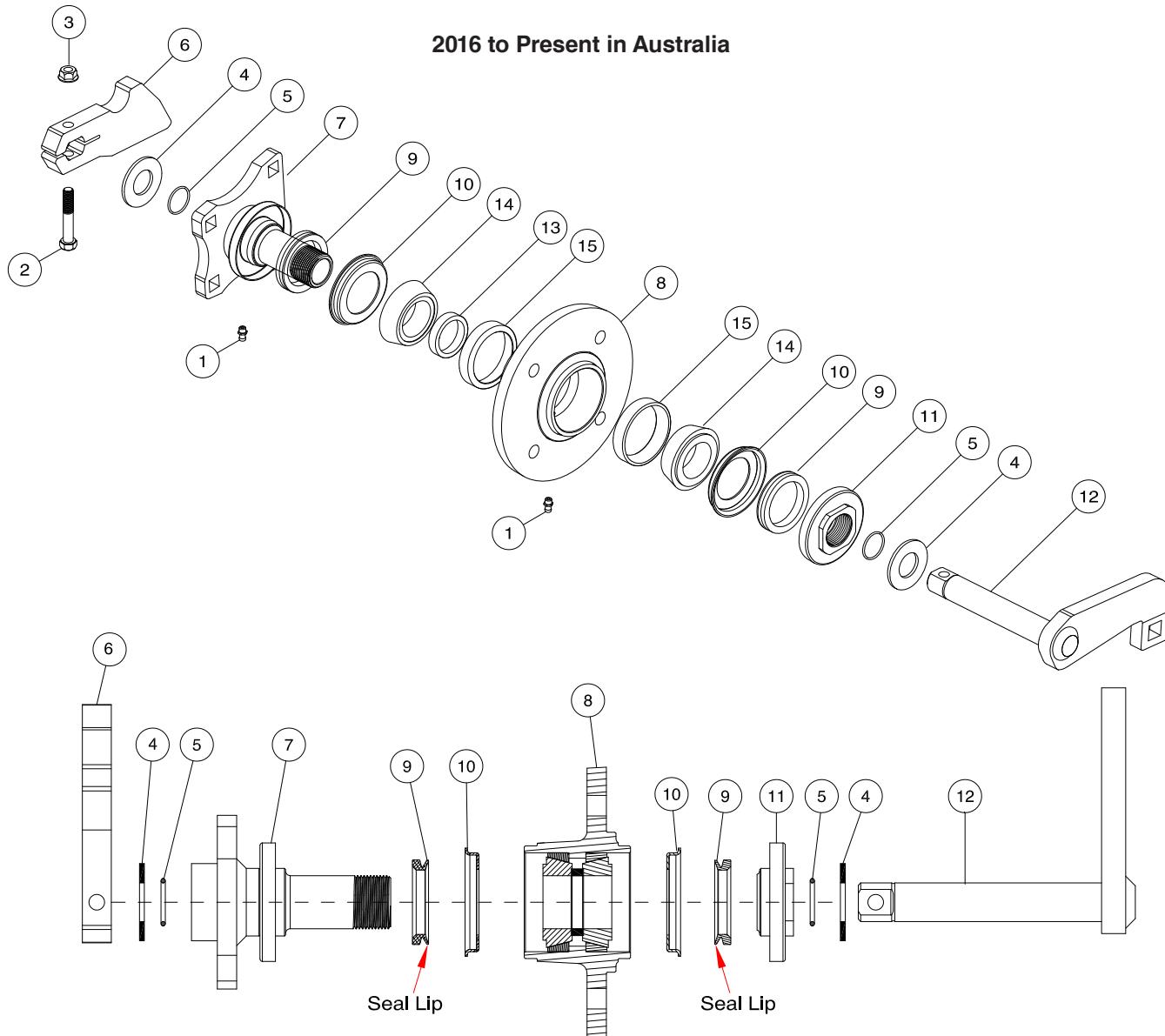
Disc Hub Assembly Left - S56680

Hub Assembly S56680 is
replacement for S50465.



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S-748 | Hex Jam Nut - 3/8 | 1 |
| 2 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 3 | S-1311 | Hex Slotted Nut - 1-14 Uns | 1 |
| 4 | S48192 | Cam Stop Plate | 1 |
| 5 | S56681 | Seal Counterface - 1 3/4 Shaft | 2 |
| 6 | S56679 | V-Seal - 1 3/4 Shaft | 2 |
| 7 | S56637 | Thrust Washer Hardened - 1.5 ID x 2.00 OD x 0.167 Thick | 1 |
| 8 | S56629 | O-Ring - 214 AS-568 | 1 |
| 9 | S56685 | Disc Hub Spindle - 1 3/4 | 1 |
| 10 | S56673 | Thrust Washer Nylatron - 1-1/64 ID x 2 OD x 1/4 Thick | 1 |
| 11 | S56684 | Gauge Wheel Spindle - Left | 1 |
| 12 | S56607 | 4-Bolt Hub - Cast | 1 |
| 13 | W-475 | Hex Bolt - 3/8 x 1 Lg | 1 |
| 14 | W-1416 | Cotter Pin - 3/16 x 2 Lg | 1 |
| 15 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 16 | W-1537 | Outer Bearing Cup - LM48510 | 2 |

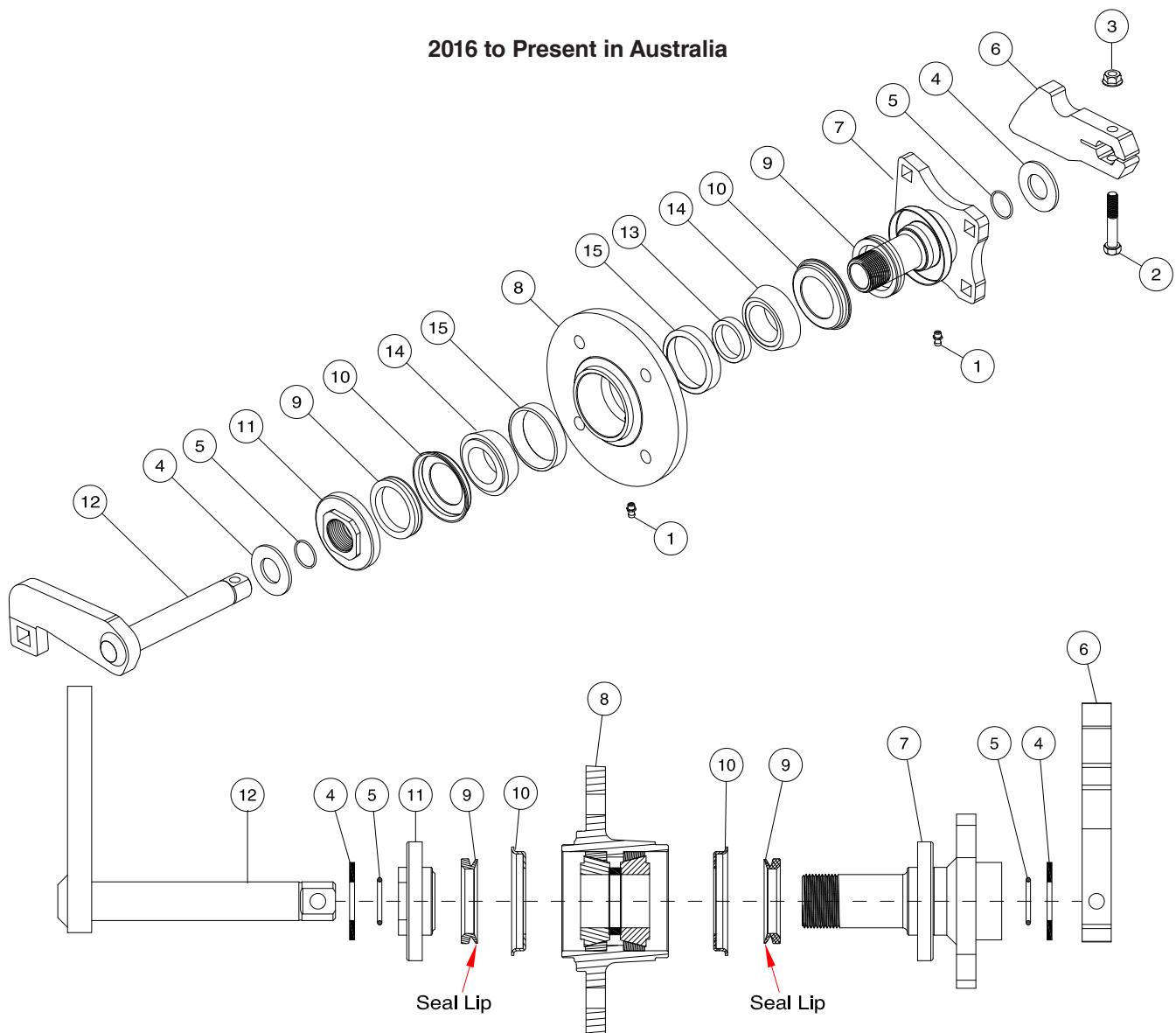
**Disc Hub Assembly
Right - S60007 - 2020 to Present**



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 2 | K53407 | Hex Bolt - 3/8 x 3 Lg Gr.8 | 1 |
| 3 | S27987 | Lock Nut - 3/8 Flange | 1 |
| 4 | S42675 | Washer - 1 1/32 ID x 2 OD x 1/8 Thick Nylatron | 2 |
| 5 | C13282 | O-Ring | 2 |
| 6 | S60016 | Depth Lug | 1 |
| 7 | S60014 | Hub Spindle - Left Hand Threads (Includes Item 9) | 1 |
| 8 | S56607 | Hub - 4-Bolt - Cast | 1 |
| 9 | S56679 | V-Seal - 1 3/4 Shaft | 2 |
| 10 | S56681 | Seal Counterface - 1 3/4 Shaft | 2 |
| 11 | S56679 | Bearing Retainer - Left Hand Threads | 1 |
| 12 | S60013 | Gauge Wheel Spindle - Right | 1 |
| 13 | S60011 | Spacer - Bearing | 1 |
| 14 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 15 | W-1537 | Outer Bearing Cup - LM48510 | 2 |

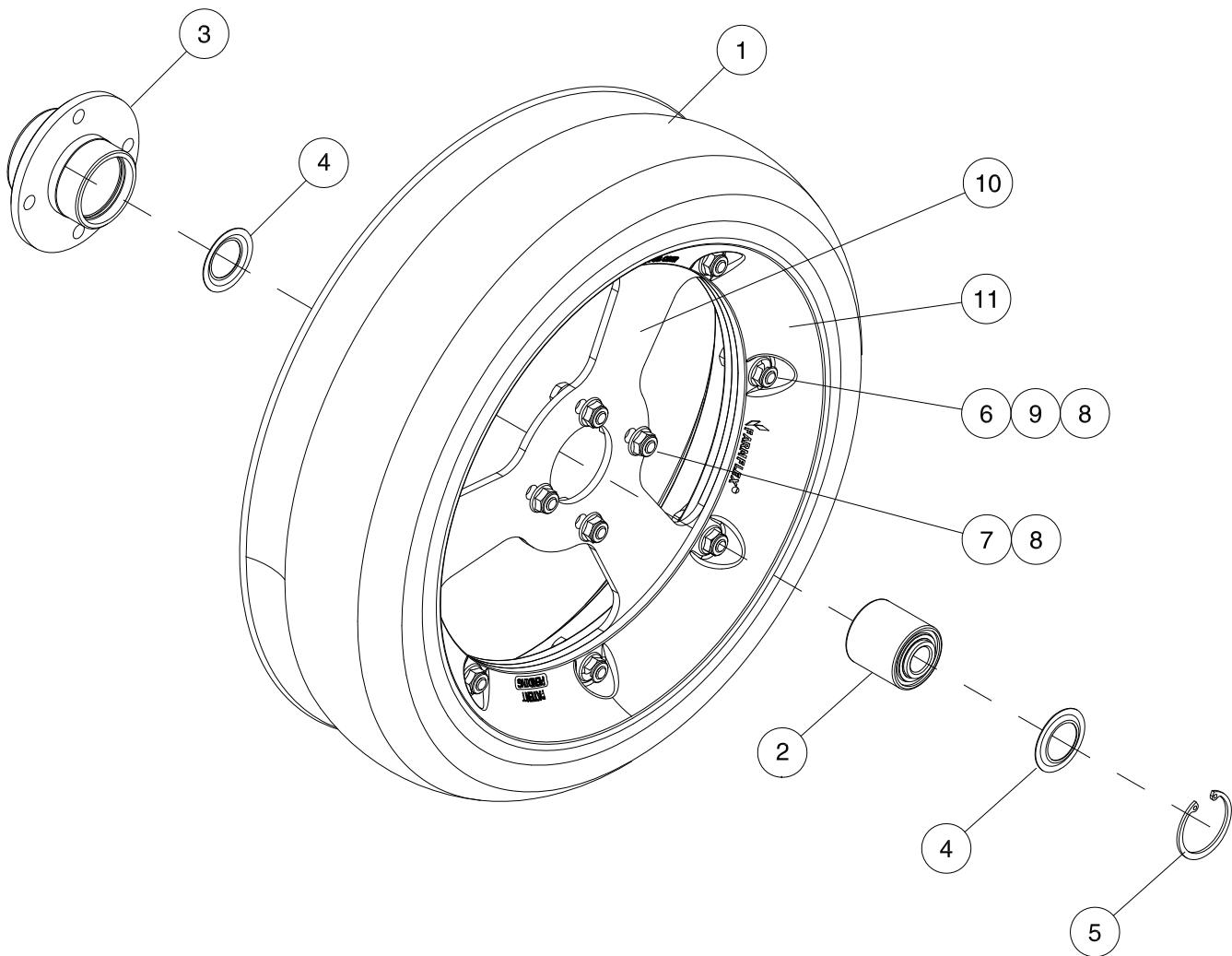
**Disc Hub Assembly
Left - S60017 - 2020 to Present**

2016 to Present in Australia



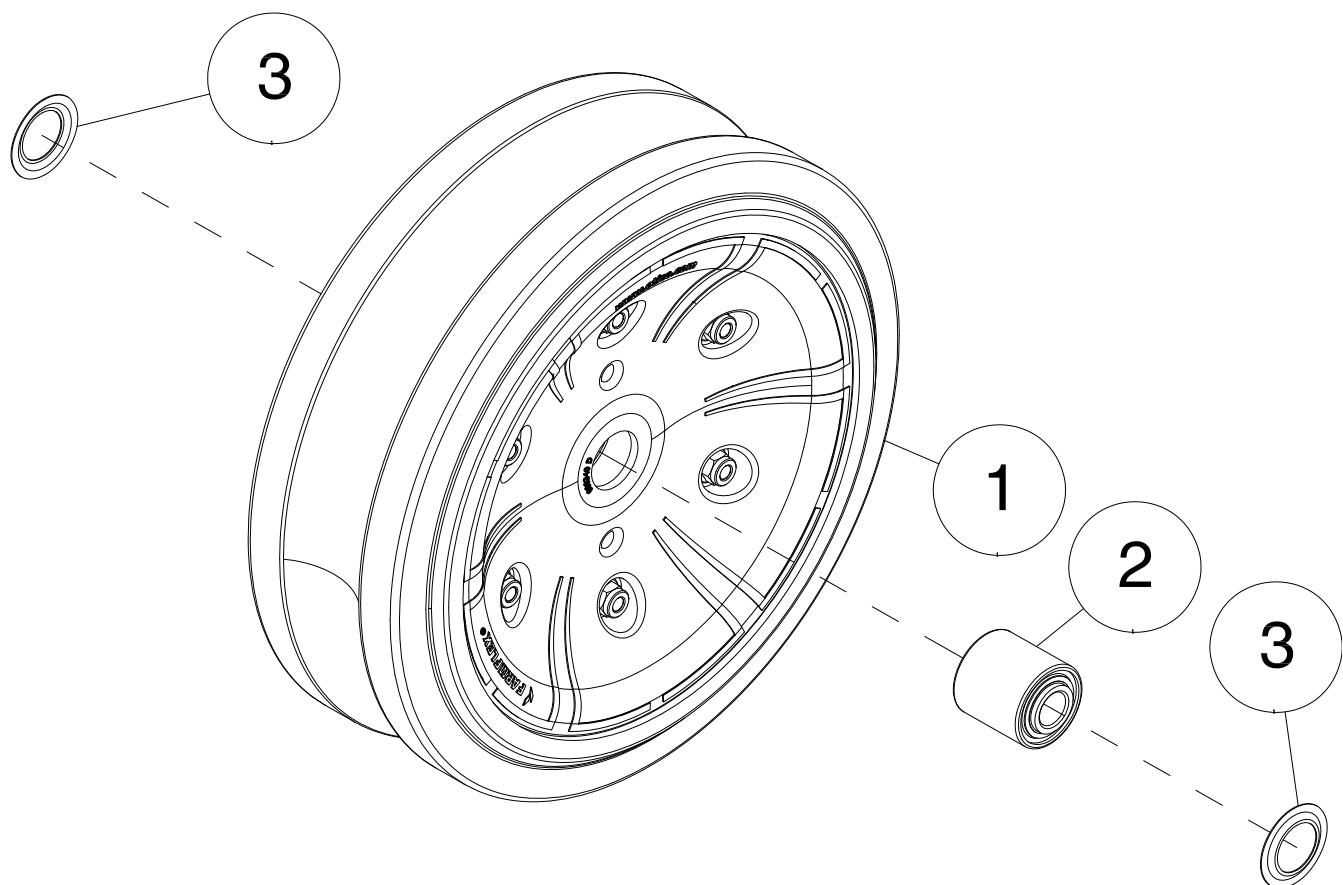
| Item | Part No. | Description | Qty |
|------|---------------|---|-----|
| 1 | S-752 | Grease Fitting - 1/4 Straight | 1 |
| 2 | K53407 | Hex Bolt - 3/8 x 3 Lg Gr.8 | 1 |
| 3 | S27987 | Lock Nut - 3/8 Flange..... | 1 |
| 4 | S42675 | Washer - 1 1/32 ID x 2 OD x 1/8 Thick Nylatron..... | 2 |
| 5 | C13282 | O-Ring..... | 2 |
| 6 | S60016 | Depth Lug | 1 |
| 7 | S60019 | Hub Spindle - Right Hand Threads (Includes Item 9) | 1 |
| 8 | S56607 | Hub - 4-Bolt - Cast | 1 |
| 9 | S56679 | V-Seal - 1 3/4 Shaft..... | 2 |
| 10 | S56681 | Seal Counterface - 1 3/4 Shaft..... | 2 |
| 11 | S60021 | Bearing Retainer - Right Hand Threads | 1 |
| 12 | S60018 | Gauge Wheel Spindle - Left..... | 1 |
| 13 | S60011 | Spacer - Bearing | 1 |
| 14 | W-1474 | Outer Wheel Bearing - LM48548 | 2 |
| 15 | W-1537 | Outer Bearing Cup - LM48510 | 2 |

Disc Opener Guage Wheel



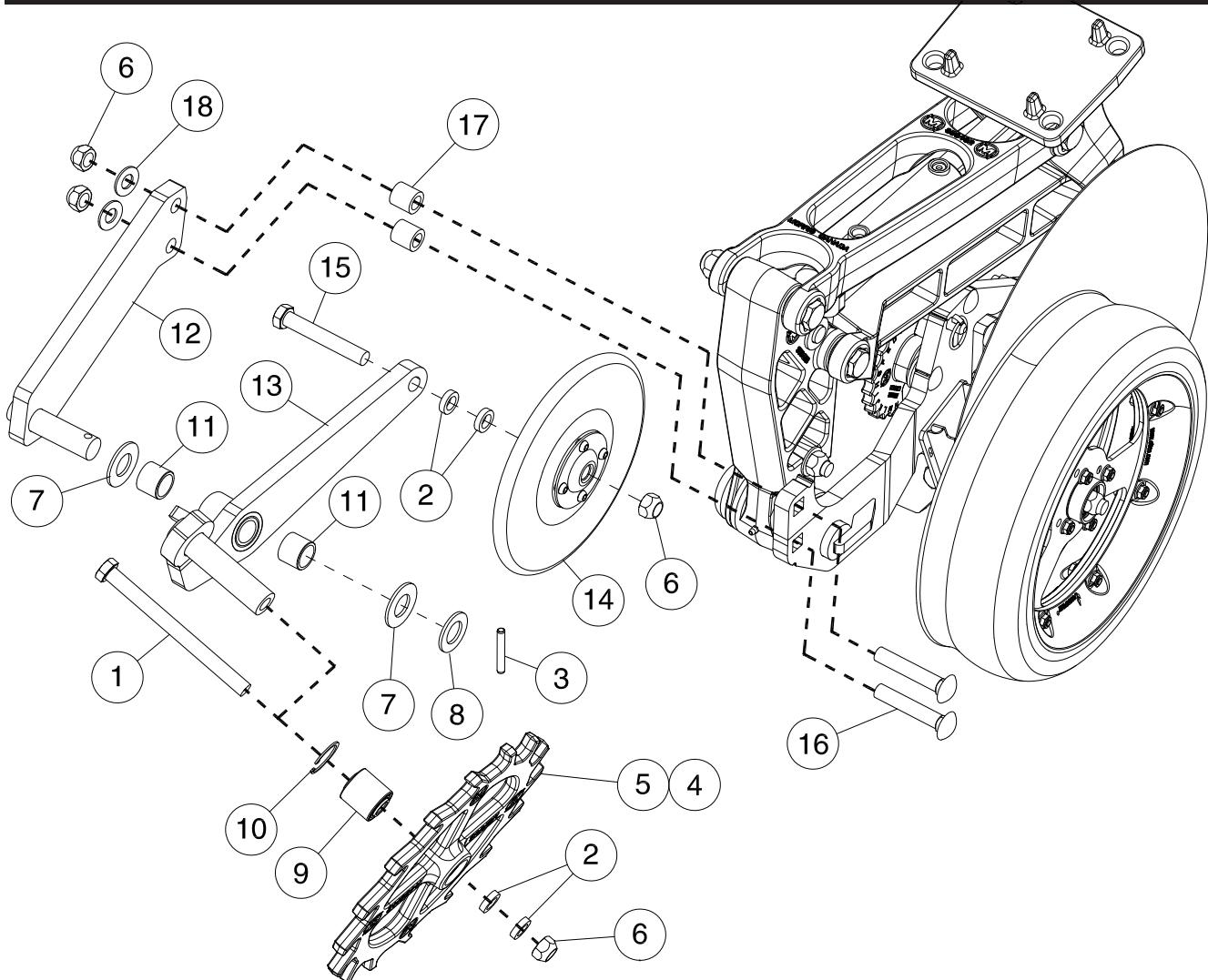
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | ***** | Rubber Guage Tire - 4 1/2 x 16 | 1 |
| 2 | S51206 | Double Ball Bearing | 1 |
| 3 | S55300 | Steel Hub | 1 |
| 4 | S51209 | Washer - Bearing Cap | 2 |
| 5 | S55305 | CIRCLIP - 40 x 1.75 DIN472 | 1 |
| 6 | S55313 | Hex Bolt - M8 x 30 x 8.8 | 8 |
| 7 | S55314 | Hex Bolt - M8 x 25 x 8.8 | 4 |
| 8 | S55310 | Hex Nut - M8 x 8.8 Prevailing Torque | 12 |
| 9 | S55315 | Flat Washer - M8 Sandard | 8 |
| 10 | ***** | Rim Plate | 1 |
| 11 | ***** | Split Rim Flange | 2 |
| | S51157 | 3 Spoke Guage Wheel - 4 1/2 x 16 (Includes all above items) | |
| | S55600 | Steel Hub Kit - (Includes Items 2, 3, 4, 5, 7 and 8) | |

Disc Opener Packer Wheel



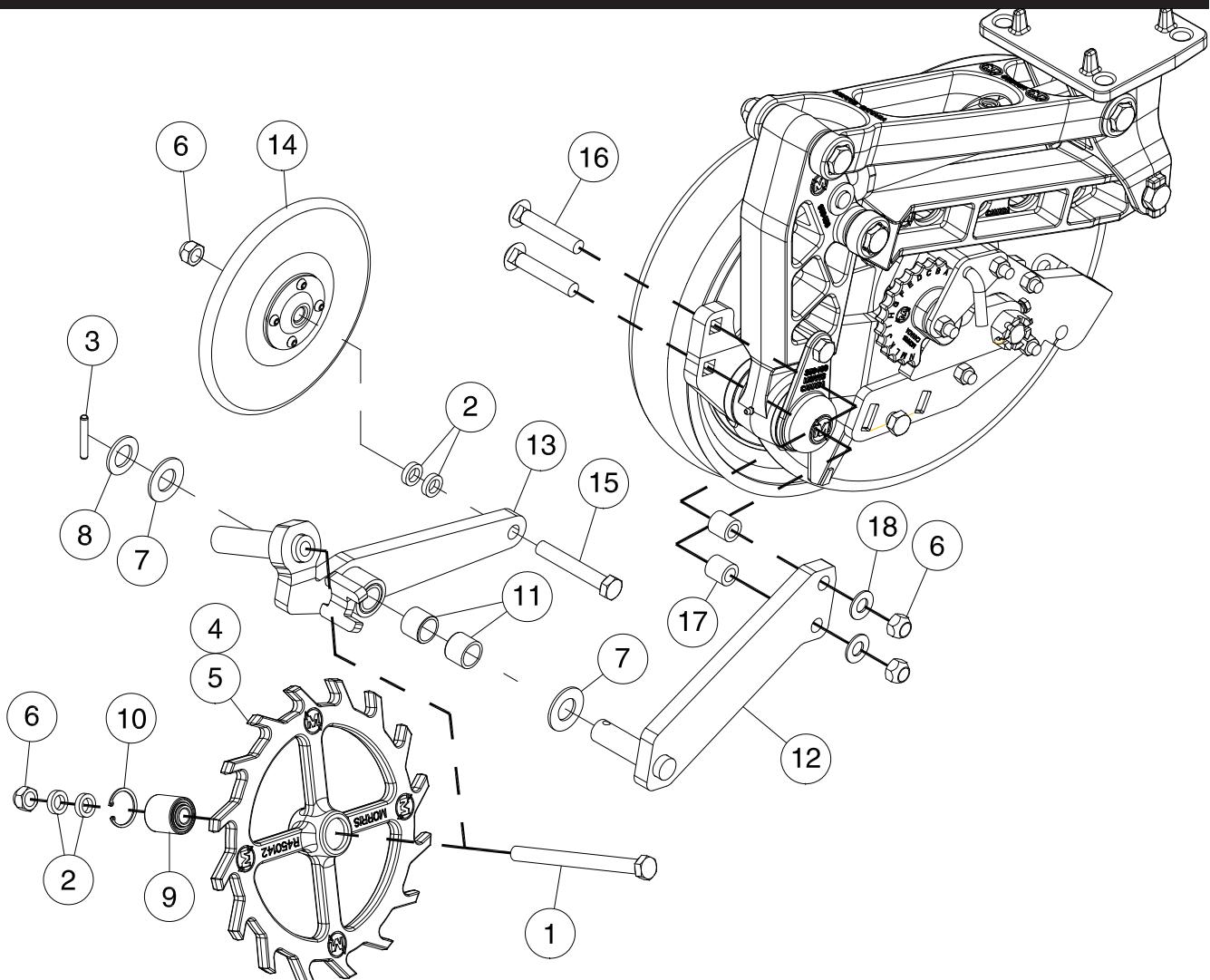
| Item | Part No. | Description | Qty |
|------|----------|-----------------------------|-----|
| 1 | S51172 | Dual Rib Packer Wheel | 1 |
| 2 | S51206 | Double Ball Bearing | 2 |
| 3 | S51209 | Washer - Bearing Cup..... | 2 |

**Disc Opener
Crumbler Wheel - Left**



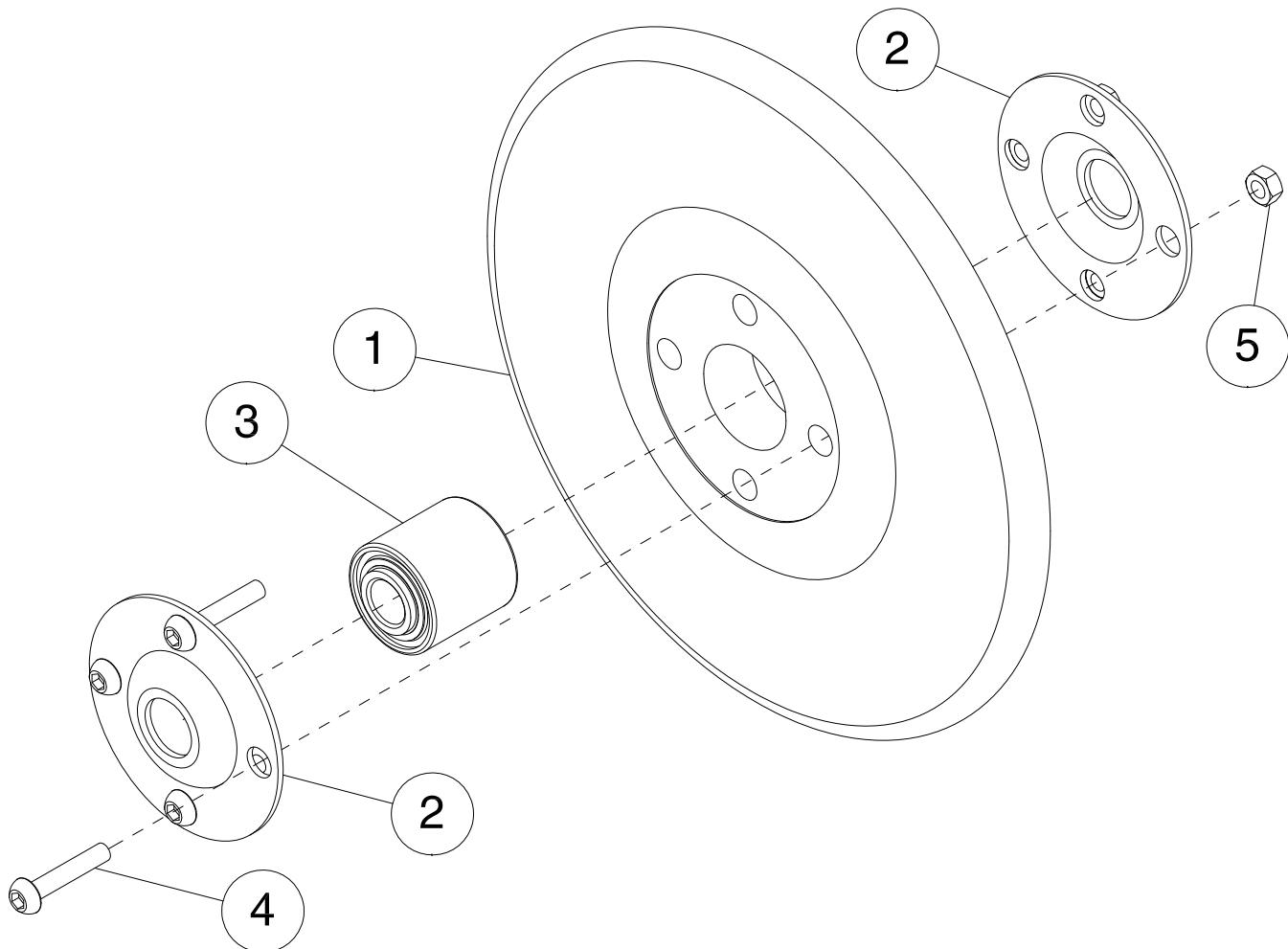
| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | 10066 | Hex Bolt - 5/8 x 8 Lg GR 8 | 1 |
| 2 | A14417 | Flat Washer - 5/8 ID x 1 OD x 1/4 Thick..... | 4 |
| 3 | W21776 | Roll Pin - 5/16 Dia x 1 3/8 Lg..... | 1 |
| 4 | S62242 | Crumbler Wheel Assembly (Includes Items 5, 9, 10)..... | 1 |
| 5 | R450142 | Spiked Closing Wheel Casting | 1 |
| 6 | S-1197 | Locknut - 5/8 Unitorque..... | 4 |
| 7 | S42675 | Washer - 1 1/32 ID x 2 OD x 1/8 Thick Nylaton GS..... | 2 |
| 8 | H18268 | Washer - 1 1/32 ID x 1 3/4 OD x 10 GA..... | 1 |
| 9 | S65114 | Bearing - Double Ball - Seedxtreme 40mm | 1 |
| 10 | S55305 | Circlip - 40 x 1.75 Din 472 | 1 |
| 11 | S59806 | Q2 Bushing - 1 ID x 1 1/4 OD x 1 Lg Nominal size | 2 |
| 12 | S66465 | HD Pivot Mount Arm - Left..... | 1 |
| 13 | S66467 | HD Firmer/Crumbler Arm - Left (Includes items 11) | 1 |
| 14 | S65113 | Seed Firming Wheel..... | 1 |
| 15 | W-504 | Hex Bolt - 5/8 x 4 Lg..... | 1 |
| 16 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg | 2 |
| 17 | S51312 | Bushing - 0.632 ID x 1 OD x 1 Lg | 2 |
| 18 | W-629 | Flat Washer - 5/8..... | 2 |
| | S62223 | Kit: Firmer/Crumbler - Left (Includes items 1 to 15) Order through Whole Goods | |

**Disc Opener
Crumbler Wheel - Right**



| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | 10066 | Hex Bolt - 5/8 x 8 Lg GR 8 | 1 |
| 2 | A14417 | Flat Washer - 5/8 ID x 1 OD x 1/4 Thick | 4 |
| 3 | W21776 | Roll Pin - 5/16 Dia x 1 3/8 Lg | 1 |
| 4 | S62242 | Crumbler Wheel Assembly (Includes Items 5, 9, 10) | 1 |
| 5 | R450142 | Spiked Closing Wheel Casting | 1 |
| 6 | S-1197 | Locknut - 5/8 Unitorque | 4 |
| 7 | S42675 | Washer - 1 1/32 ID x 2 OD x 1/8 Thick Nylaton GS | 2 |
| 8 | H18268 | Washer - 1 1/32 ID x 1 3/4 OD x 10 GA | 1 |
| 9 | S65114 | Bearing - Double Ball - Seedxtreme 40mm | 1 |
| 10 | S55305 | Circlip - 40 x 1.75 Din 472 | 1 |
| 11 | S59806 | Q2 Bushing - 1 ID x 1 1/4 OD x 1 Lg Nominal size | 2 |
| 12 | S66464 | HD Pivot Mount Arm - Right | 1 |
| 13 | S66432 | HD Firmer/Crumbler Arm - Right (Includes items 11) | 1 |
| 14 | S65113 | Seed Firming Wheel | 1 |
| 15 | W-504 | Hex Bolt - 5/8 x 4 Lg | 1 |
| 16 | S48856 | Carriage Bolt - 5/8 x 3-1/2 Lg | 2 |
| 17 | S51312 | Bushing - 0.632 ID x 1 OD x 1 Lg | 2 |
| 18 | W-629 | Flat Washer - 5/8 | 2 |
| | S62222 | Kit: Firmer/Crumbler - Left (Includes items 1 to 15) Order through Whole Goods | |

**Disc Opener
Crumbler Firming Wheel**



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | ***** | Firming Wheel | 1 |
| 2 | ***** | Hub Plate | 2 |
| 3 | S65114 | Bearing - Double Ball - Seedxtreme 40MM | 1 |
| 4 | ***** | Allen Bolt - 1/4 Dia x 1 3/8 UL..... | 4 |
| 5 | W-512 | Hex Nut - 1/4 | 4 |
| | S65113 | Firming Wheel Assembly - Contains all Items above | 1 |

Section 4:

Hydraulics

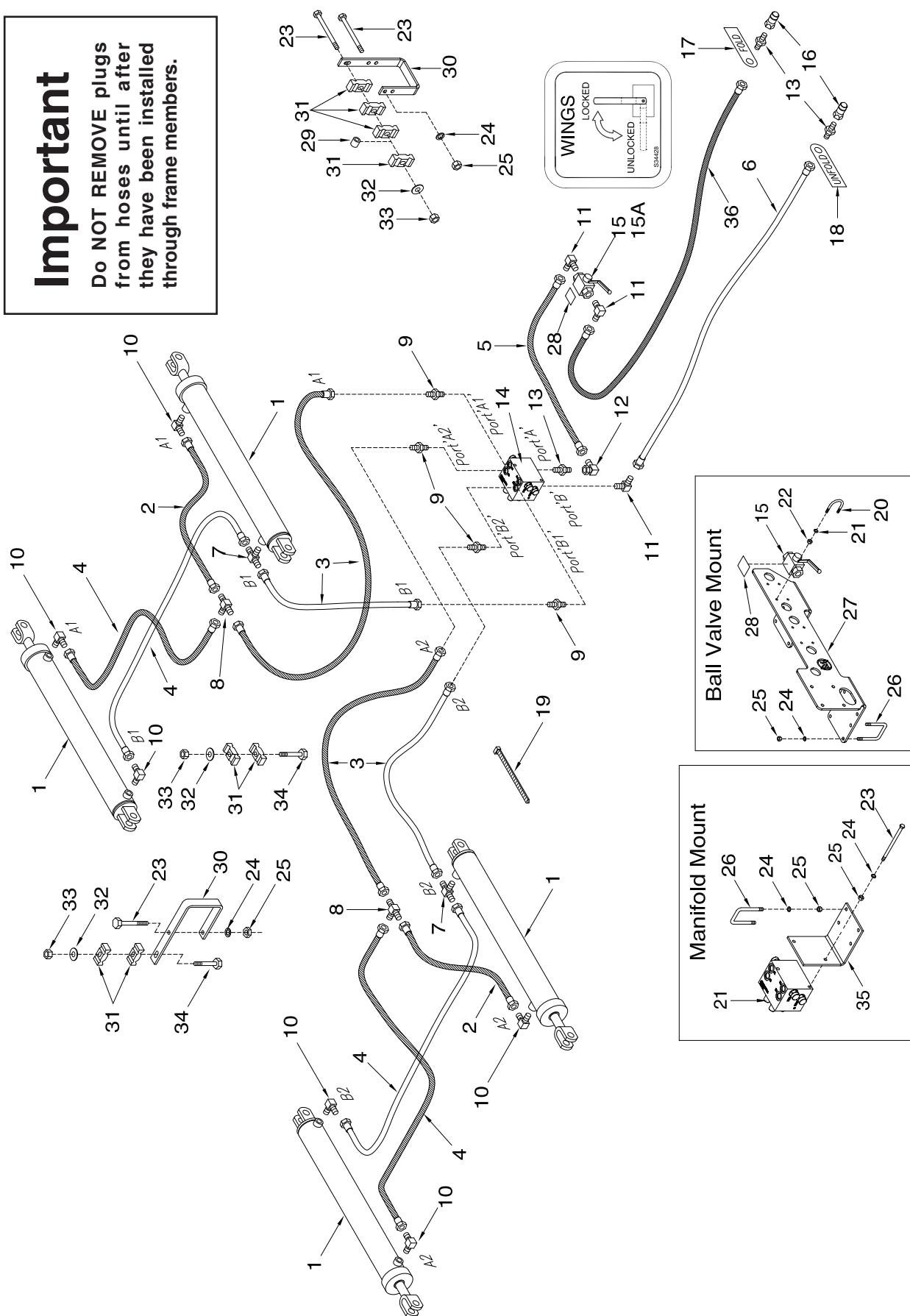
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Wing Lift Hydraulics 40 Ft Model

Important

Do NOT REMOVE plugs from hoses until after they have been installed through frame members.



Wing Lift Hydraulics - 40 Ft Model

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C39030 | Cylinder - 4 1/2 x 36 | 4 |
| 2 | C14835 | Hyd. Hose - 1/4 x 36 - 9/16-18 FJIC | 2 |
| 3 | C15349 | Hyd. Hose - 1/4 x 48 - 9/16-18 FJIC | 4 |
| 4 | S39503 | Hyd. Hose - 1/4 x 132 - 9/16-18 FJIC | 4 |
| 5 | N19345 | Hyd. Hose - 1/2 x 132 - 7/8-14 FJIC | 1 |
| 6 | S39539 | Hyd. Hose - 1/2 x 330 - 7/8-14 FJIC | 2 |
| 7 | N31908 | Tee - (2) 9/16-18 MJIC x (1) 9/16-18 MORB..... | 2 |
| 8 | C-4393 | Tee - (3) 9/16-18 MJIC..... | 2 |
| 9 | C15348 | Male Connector - 3/4-16 ORB x 9/16-18 JIC..... | 4 |
| 10 | N16143 | Elbow 90 deg - 9/16-18 JIC x 9/16-18 ORB | 6 |
| 11 | C24585 | Elbow 90 deg - 7/8-14 MJIC x 3/4-16 ORB | 3 |
| 12 | K-5806 | Elbow 90 deg - 7/8-14 FJIC x 7/8-14 MJIC..... | 1 |
| 13 | C14840 | Reducer - 3/4-16 MORB x 7/8-14 MJIC | 3 |
| 14 | C53849 | Manifold - Pressure Compensated Flow Control | 1 |
| 15 | N42880 | Valve - 2 Way Ball..... | 1 |
| 15A | N42881 | Handle - Valve | 1 |
| 16 | N34443 | Male Tip - 3/4-16 ORB..... | 2 |
| 17 | S29960 | Tag - Hose ID - Wing Lift - FOLD..... | 1 |
| 18 | S29961 | Tag - Hose ID - Wing Lift - UNFOLD | 1 |
| 19 | S13336 | Nylon Tie Strap - 1/2 x 28 1/4..... | 12 |
| 19A | D-4838 | Nylon Tie Strap - 1/2 x 14 1/2..... | 8 |
| 19B | D-4951 | Nylon Tie Strap - 1/2 x 7 3/8..... | 70 |
| 20 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg | 2 |
| 21 | W-521 | Lockwasher - 1/4..... | 4 |
| 22 | W-512 | Hex Nut - 1/4..... | 4 |
| 23 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 12 |
| 24 | W-523 | Lockwasher - 3/8..... | 18 |
| 25 | W-514 | Hex Nut - 3/8 | 18 |
| 26 | D12714 | U-Bolt - 3/8 x 2 x 2 3/4 Lg | 3 |
| 27 | S47642 | Multi-Valve Mounting Plate | 1 |
| 28 | S34428 | Decal - Wings Lock | 1 |
| 29 | N16257 | Bushing - Spacer | 3 |
| 30 | C14411 | Oil Line Bracket..... | 7 |
| 31 | C-4698 | Oil Line Clamp | 28 |
| 32 | W-538 | Flatwasher - 3/8 | 15 |
| 33 | M-3388 | Locknut - 3/8 | 15 |
| 34 | W-480 | Hex Bolt - 3/8 x 2 1/2..... | 8 |
| 35 | S39565 | Mounting Bracket - Valve..... | 1 |

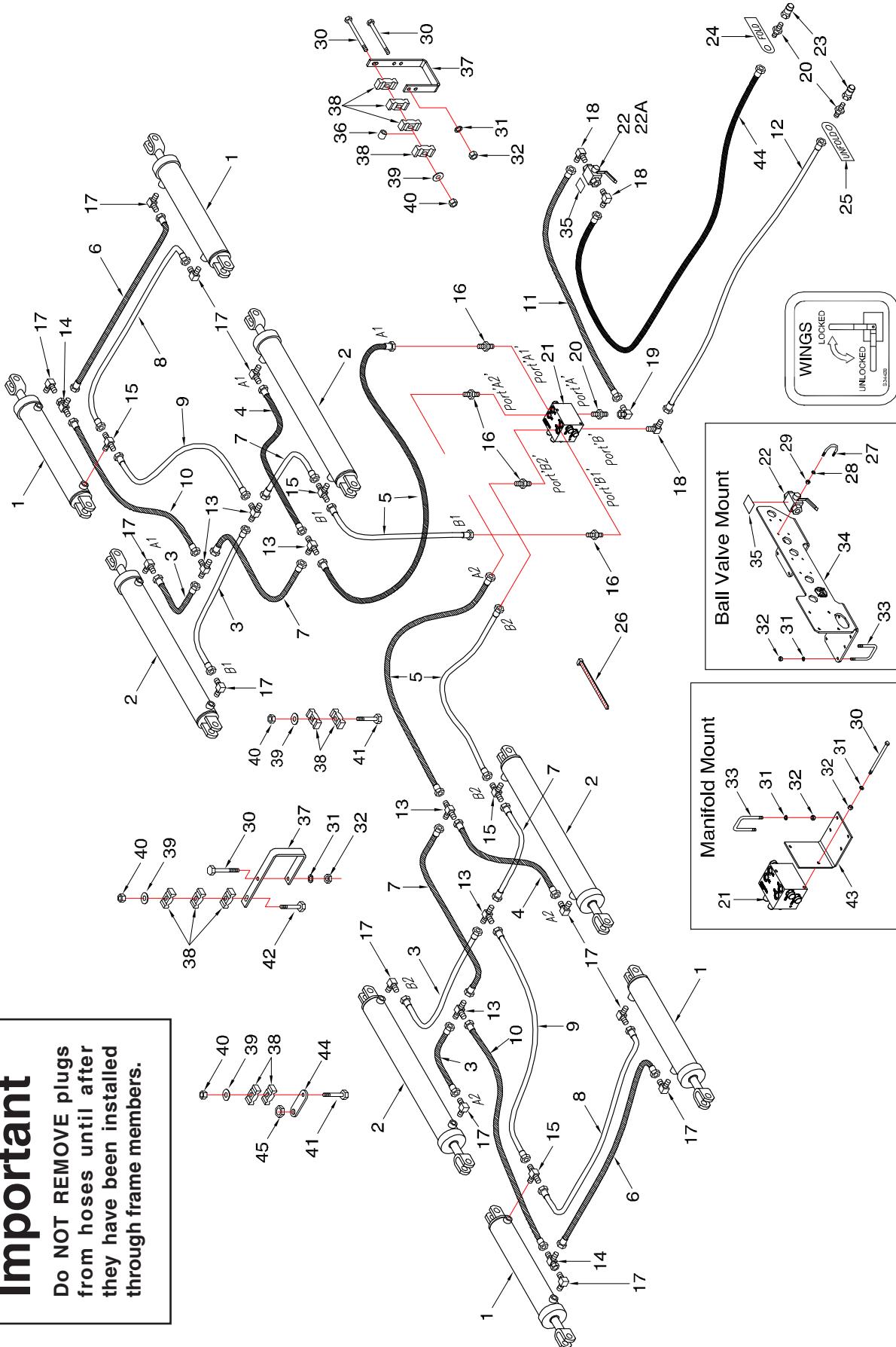
Important

The following safety procedure must be followed to eliminate possible damage to the machine when initially filling wing lift cylinders.

Operate hydraulic on tractor until wings "just start to lift". Then reverse hydraulic on tractor to fill opposite end of cylinders and remove air from the hydraulic system.

Note: This applies to wing lift cylinders only.

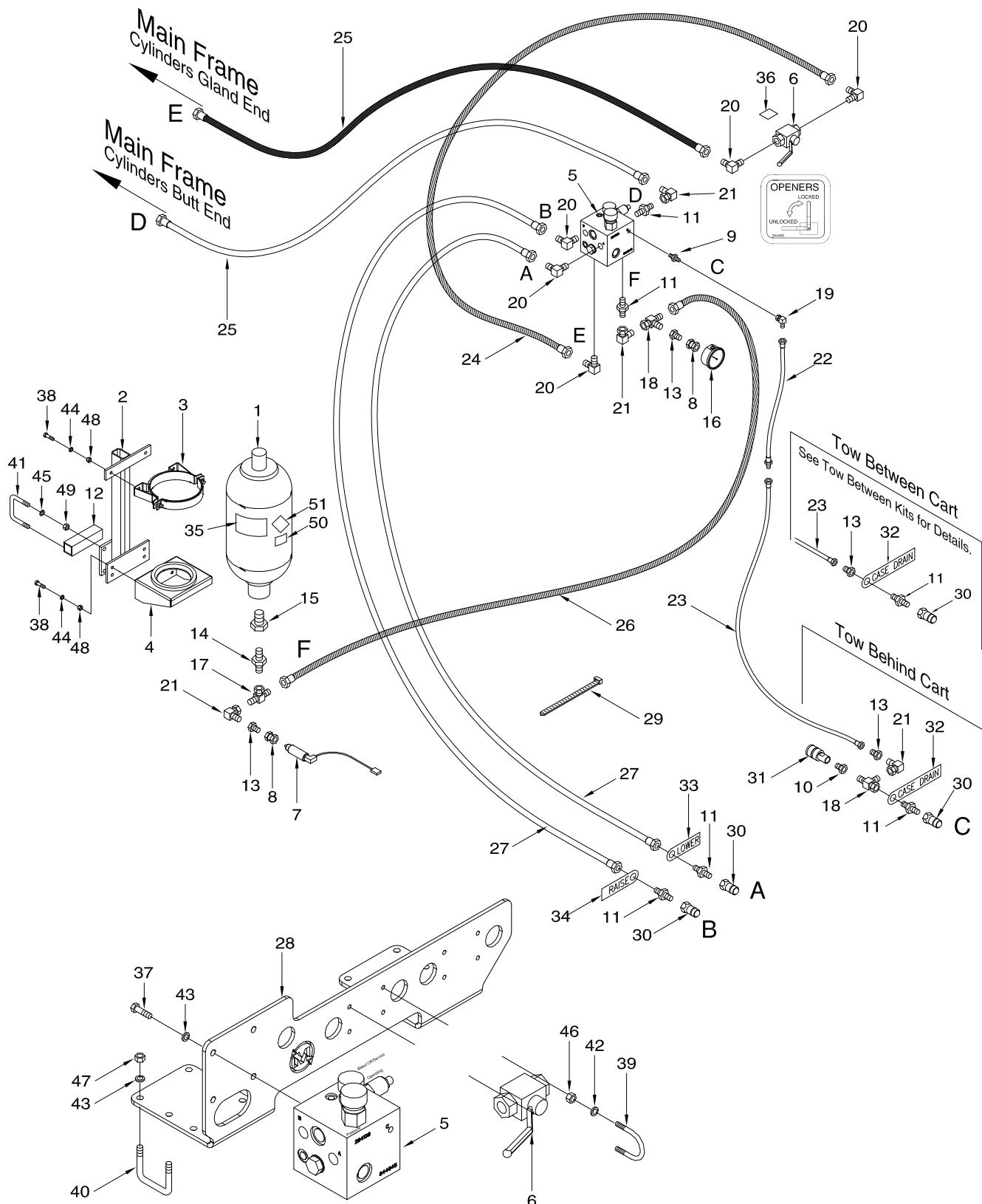
Wing Lift Hydraulics 50 Ft and 60 Ft Models



Wing Lift Hydraulics - 50 Ft and 60 Ft Models

| Item | Part No. | Description | Qty |
|---|---------------|---|----------|
| 1 | C34442 | Cylinder - 4 1/2 x 30 - Prior to 2015 Production..... | 4 |
| | C47594 | Cylinder - 5 x 30 - 2015 Production to present | 4 |
| 2 | C39490 | Cylinder - 5 x 36 - Prior to 2015 Production..... | 4 |
| | C53250 | Cylinder - 5 1/2 x 36 - 2015 Production to present | 4 |
| 3 | C-4552 | Hyd. Hose - 1/4 x 24 - 9/16-18 FJIC x 9/16-18 FJIC Ends | 4 |
| 4 | C14835 | Hyd. Hose - 1/4 x 36 - 9/16-18 FJIC x 9/16-18 FJIC Ends | 2 |
| 5 | C16652 | Hyd. Hose - 1/4 x 60 - 9/16-18 FJIC x 9/16-18 FJIC Ends | 4 |
| 6 | H18267 | Hyd. Hose - 1/4 x 96 - 9/16-18 FJIC x 9/16-18 FJIC Ends | 2 |
| 7 | W21962 | Hyd. Hose - 1/4 x 108 - 9/16-18 FJIC x 9/16-18 FJIC Ends..... | 4 |
| 8 | S39503 | Hyd. Hose - 1/4 x 132 - 9/16-18 FJIC x 9/16-18 FJIC Ends..... | 2 |
| 9 | F14658 | Hyd. Hose - 1/4 x 150 - 9/16-18 FJIC x 9/16-18 FJIC Ends..... | 2 |
| 10 | S13317 | Hyd. Hose - 1/4 x 180 - 9/16-18 FJIC x 9/16-18 FJIC Ends..... | 2 |
| 11 | N19345 | Hyd. Hose - 1/2 x 132 - 7/8-14 FJIC Ends | 1 |
| 12 | S39537 | Hyd. Hose - 1/2 x 372 - 7/8-14 FJIC Ends | 2 |
| 13 | C-4393 | Tee - (3) 9/16-18 MJIC..... | 6 |
| 14 | C-4403 | Swivel Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF) | 2 |
| 15 | N31908 | Swivel Tee - (2) 9/16-18 MJIC x (1) 9/16-18 MORB..... | 4 |
| 16 | C15348 | Male Connector - 3/4-16 ORB x 9/16-18 JIC..... | 4 |
| 17 | N16143 | Elbow 90 deg - 9/16-18 JIC x 9/16-18 ORB | 12 |
| 18 | C24585 | Elbow 90 deg - 7/8-14 MJIC x 3/4-16 ORB | 1 |
| 19 | K-5806 | Elbow 90 deg - 7/8-14 FJIC x 7/8-14 MJIC | 1 |
| 20 | C14840 | Reducer - 3/4-16 MORB x 7/8-14 MJIC | 4 |
| 21 | C53849 | Manifold - Pressure Compensated Flow Control..... | 1 |
| 22 | N42880 | Valve - 2 Way Ball..... | 1 |
| 22A | N42881 | Handle - Valve | 1 |
| 23 | N34443 | Male Pioneer Tip - 3/4-16 ORB | 2 |
| 24 | S29960 | Tag - Hose ID - Wing Lift - FOLD | 1 |
| 25 | S29961 | Tag - Hose ID - Wing Lift - UNFOLD | 1 |
| 26 | D-4951 | Nylon Tie Strap - 1/2 x 7 3/8..... | 80 |
| 27 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg | 2 |
| 28 | W-521 | Lockwasher - 1/4..... | 4 |
| 29 | W-512 | Hex Nut - 1/4 | 4 |
| 30 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 14 |
| 31 | W-523 | Lockwasher - 3/8..... | 18 |
| 32 | W-514 | Hex Nut - 3/8 | 18 |
| 33 | D12714 | U-Bolt - 3/8 x 2 x 2 3/4 Lg | 3 |
| 34 | S47642 | Multi-Valve Mounting Plate | 1 |
| 35 | S34428 | Decal - Wings Lock | 1 |
| 36 | N16257 | Bushing - Spacer | 4 |
| 37 | C14411 | Oil Line Bracket | 8 |
| 38 | C-4698 | Oil Line Clamp | 44 |
| 39 | W-538 | Flatwasher - 3/8 | 20 |
| 40 | M-3388 | Locknut - 3/8 | 20 |
| 41 | W-480 | Hex Bolt - 3/8 x 2 1/2..... | 8 |
| 42 | C-1550 | Hex Bolt - 3/8 x 4..... | 4 |
| 43 | S39565 | Mounting Bracket - Valve | 1 |
| 44 | S53010 | Plate - Hose Holder | 6 |
| 45 | C-1472 | Jam Nut - 5/8 | 6 |
| Prior to 2015 production year - Wing Lift Cylinders | | | |
| - 50 ft Prior to Serial # RD50140510 | | | |
| - 60 ft Prior to Serial # RD60140619 | | | |
| 2015 production year to present - Wing Lift Cylinders | | | |
| - 50 ft Serial numbers RD50140505, RD50140506, RD50140508, RD50140507, RD50140510 and all from Serial # RD50150515 and newer. | | | |
| - 60 ft Serial number RD60140615 and all from Serial # RD60150631 and newer. | | | |

Opener Hydraulics
Accumulator and Hitch Hydraulics - Prior to 2016

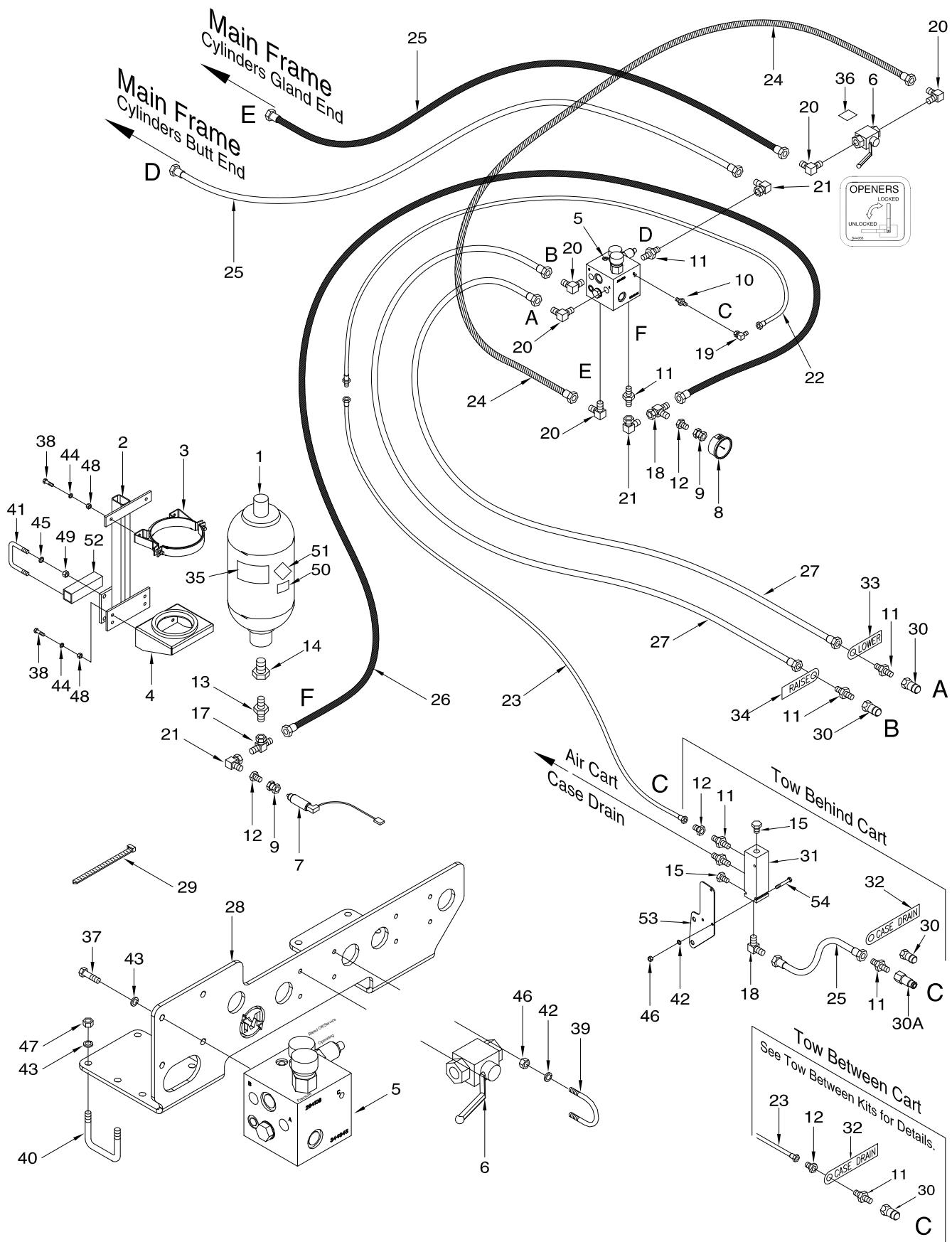


Note: Case Drain Tee with Quick Coupler must be moved to the front of a Tow Between Air Cart.

Opener Hydraulics - Accumulator and Hitch Hydraulics - Prior to 2016

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | S47095 | 5 Gallon Hydraulic Accumulator - Global Certified | 1 |
| 2 | S42320 | Mounting Bracket - Accumulator | 1 |
| 3 | C42313 | Clamp - Accumulator..... | 1 |
| 4 | C42314 | Base - Accumulator..... | 1 |
| 5 | S44945 | Manifold Block - Down Pressure | 1 |
| 6 | N42880 | Valve - 2 Way Ball..... | 1 |
| 6A | N42881 | Handle - Valve | 1 |
| 7 | S49545 | Pressure Transducer | 1 |
| 8 | S42998 | Connector - 1/4 FNPT x 9/16-18 FJIC | 2 |
| 9 | S34115 | Connector - 9/16-18 JIC x 7/16-20 MORB | 1 |
| 10 | N34620 | Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC | 1 |
| 11 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC | 5 |
| 12 | S44929 | Tube - Accumulator Mount - 2 x 2 x 6 1/2 Lg..... | 1 |
| 13 | F10384 | Reducer - 9/16-18 MJIC x 7/8-14 FJIC | 3 |
| 14 | C42312 | Reducer - 7/8-14 MJIC x 1 5/16-14 MORB | 1 |
| 15 | C42311 | Reducer - 1 7/8-14 MORB x 1 5/16-14 FORB..... | 1 |
| 16 | S48845 | Pressure Gauge - 2 1/2 Dia with 1/4NPT | 1 |
| 17 | F24559 | Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC (MFM)..... | 1 |
| 18 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF) | 2 |
| 19 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC | 1 |
| 20 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB..... | 6 |
| 21 | K-5806 | 90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC | 4 |
| 22 | W21963 | Hyd Hose - 1/4 x 96 Lg w/9/16-18 MJIC x 9/16-18 FJIC | 1 |
| 23 | C26341 | Hyd Hose - 1/4 x 282 Lg w/9/16-18 FJIC | 1 |
| 24 | C-4468 | Hyd Hose - 1/2 x 24 Lg w/7/8-14 FJIC x 7/8-14 FJIC | 1 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC..... | 2 |
| 26 | H-4410 | Hyd Hose - 1/2 x 96 Lg w/7/8-14 FJIC..... | 1 |
| 27 | S39539 | Hyd. Hose - 1/2 x 330 - 7/8-14 FJIC - 40 ft | 2 |
| | S39537 | Hyd. Hose - 1/2 x 372 - 7/8-14 FJIC Ends - 50 & 60 ft | 2 |
| 28 | S47642 | Multi-Valve Mounting Plate..... | 1 |
| 29 | S13336 | Nylon Tie Strap - 28 1/4 Lg..... | 12 |
| 29A | D-4838 | Nylon Tie Strap - 1/2 x 14 1/2..... | 8 |
| 30 | N34443 | Male Tip - 3/4-16 MORB..... | 3 |
| 31 | N34488 | Pioneer Coupler - 7/8-14 FORB..... | 1 |
| 32 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 1 |
| 33 | S29959 | Tag - Hose ID - Depth Control - LOWER..... | 1 |
| 34 | S29958 | Tag - Hose ID - Depth Control - RAISE | 1 |
| 35 | C-4262 | Decal - Warning - Pressure Hazard..... | 1 |
| 36 | S44355 | Decal - Opener..... | 1 |
| 37 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 4 |
| 38 | W-485 | Hex Bolt - 1/2 x 1 1/4 Lg..... | 6 |
| 39 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg | 2 |
| 40 | N15098 | U-Bolt - 3/8 x 4 x 5 Lg | 4 |
| 41 | C-4569 | U-Bolt - 5/8 x 4 5/8 x 3 1/4 Lg | 2 |
| 42 | W-521 | Lockwasher - 1/4..... | 4 |
| 43 | W-523 | Lockwasher - 3/8..... | 12 |
| 44 | W-525 | Lockwasher - 1/2..... | 6 |
| 45 | W-526 | Lockwasher - 5/8..... | 4 |
| 46 | W-512 | Hex Nut - 1/4..... | 4 |
| 47 | W-514 | Hex Nut - 3/8..... | 12 |
| 48 | W-516 | Hex Nut - 1/2 | 6 |
| 49 | W-517 | Hex Nut - 5/8 | 4 |
| 50 | S44930 | Decal - Pre-Charged Dry Nitrogen | 1 |
| 51 | S44932 | Decal - Compressed Nitrogen - UN1066..... | 1 |

Opener Hydraulics
Accumulator and Hitch Hydraulics - 2016 to Present



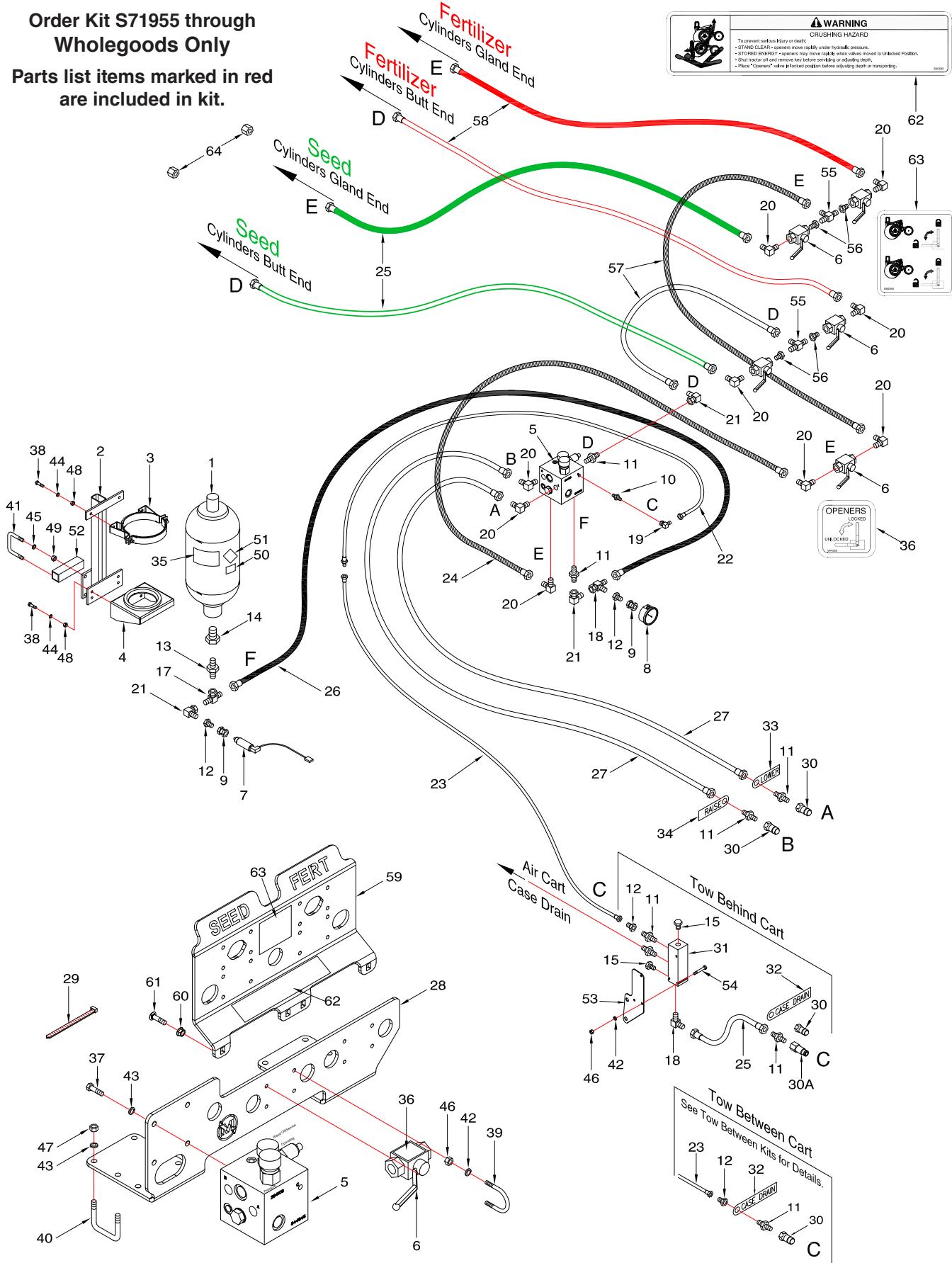
Opener Hydraulics - Accumulator and Hitch Hydraulics - 2016 to Present

| Item | Part No. | Description | Qty |
|------|---------------|--|-----|
| 1 | S47095 | 5 Gallon Hydraulic Accumulator - Global Certified | 1 |
| 2 | S42320 | Mounting Bracket - Accumulator | 1 |
| 3 | C42313 | Clamp - Accumulator..... | 1 |
| 4 | C42314 | Base - Accumulator | 1 |
| 5 | S44945 | Manifold Block - Down Pressure | 1 |
| 6 | N42880 | Valve - 2 Way Ball..... | 1 |
| 6A | N42881 | Handle - Valve | 1 |
| 7 | S49545 | Pressure Transducer | 1 |
| | N58963 | Pressure Transducer - Apollo System | 1 |
| 8 | S48845 | Pressure Gauge - 2 1/2 Dia with 1/4NPT | 1 |
| 9 | S42998 | Connector - 1/4 FNPT x 9/16-18 FJIC | 2 |
| 10 | S34115 | Connector - 9/16-18 JIC x 7/16-20 MORB | 1 |
| 11 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC | 7 |
| 12 | F10384 | Connector - 9/16-18 MJIC x 7/8-14 FJIC..... | 3 |
| 13 | C42312 | Connector - 7/8-14 MJIC x 1 5/16-14 MORB | 1 |
| 14 | C42311 | Connector - 1 7/8-14 MORB x 1 5/16-14 FORB..... | 1 |
| 15 | C28505 | Plug - 3/4-16 MORB - Used on Ports not in use on Case Drain Header | 2 |
| 16 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF)..... | 1 |
| 17 | F24559 | Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC (MFM)..... | 1 |
| 18 | N34646 | 90 Elbow - 7/8-14 MJIC x 1 1/16-12 MORB..... | 1 |
| 19 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC | 1 |
| 20 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB | 6 |
| 21 | K-5806 | 90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC | 3 |
| 22 | W21963 | Hyd Hose - 1/4 x 96 Lg w/9/16-18 MJIC x 9/16-18 FJIC | 1 |
| 23 | F14659 | Hyd Hose - 1/4 x 230 Lg w/9/16-18 FJIC - Tow Behind | 1 |
| | C26341 | Hyd Hose - 1/4 x 282 Lg w/9/16-18 FJIC - Tow Between..... | 1 |
| 24 | C-4468 | Hyd Hose - 1/2 x 24 Lg w/7/8-14 FJIC x 7/8-14 FJIC | 1 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC | 3 |
| 26 | H-4410 | Hyd Hose - 1/2 x 96 Lg w/7/8-14 FJIC | 1 |
| 27 | S39539 | Hyd Hose - 1/2 x 330 - 7/8-14 FJIC - 40 ft | 2 |
| | S39537 | Hyd Hose - 1/2 x 372 - 7/8-14 FJIC Ends - 50 & 60 ft | 2 |
| 28 | S47642 | Multi-Valve Mounting Plate | 1 |
| 29 | S13336 | Nylon Tie Strap - 28 1/4 Lg..... | 12 |
| 29A | D-4838 | Nylon Tie Strap - 1/2 x 14 1/2..... | 8 |
| 30 | N34443 | Male Tip - 3/4-16 MORB..... | 3 |
| 30A | K50834 | 3/8 Flat Face Tip - 3/4-16 FORB | 1 |
| 31 | N58670 | Case Drain Header | 1 |
| 32 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 1 |
| 33 | S29959 | Tag - Hose ID - Depth Control - LOWER..... | 1 |
| 34 | S29958 | Tag - Hose ID - Depth Control - RAISE | 1 |
| 35 | C-4262 | Decal - Warning - Pressure Hazard..... | 1 |
| 36 | S44355 | Decal - Opener..... | 1 |
| 37 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 4 |
| 38 | W-485 | Hex Bolt - 1/2 x 1 1/4 Lg..... | 6 |
| 39 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg | 2 |
| 40 | N15098 | U-Bolt - 3/8 x 4 x 5 Lg | 4 |
| 41 | C-4569 | U-Bolt - 5/8 x 4 5/8 x 3 1/4 Lg | 2 |
| 42 | W-521 | Lockwasher - 1/4 | 7 |
| 43 | W-523 | Lockwasher - 3/8..... | 12 |
| 44 | W-525 | Lockwasher - 1/2..... | 6 |
| 45 | W-526 | Lockwasher - 5/8..... | 4 |
| 46 | W-512 | Hex Nut - 1/4 | 7 |
| 47 | W-514 | Hex Nut - 3/8 | 12 |
| 48 | W-516 | Hex Nut - 1/2 | 6 |
| 49 | W-517 | Hex Nut - 5/8 | 4 |
| 50 | S44930 | Decal - Pre-Charged Dry Nitrogen | 1 |
| 51 | S44932 | Decal - Compressed Nitrogen - UN1066 | 1 |
| 52 | S44929 | Tube - Accumulator Mount - 2 x 2 x 6 1/2 Lg | 1 |
| 53 | N58671 | Plate - Case Drain Header Mount..... | 1 |
| 54 | C15319 | Hex Bolt - 1/4 x 2 1/2 Lg | 3 |

Opener Hydraulics Accumulator and Hitch Hydraulics - Row Unit Lock Up Kit S71955

**Order Kit S71955 through
Wholesale Only**

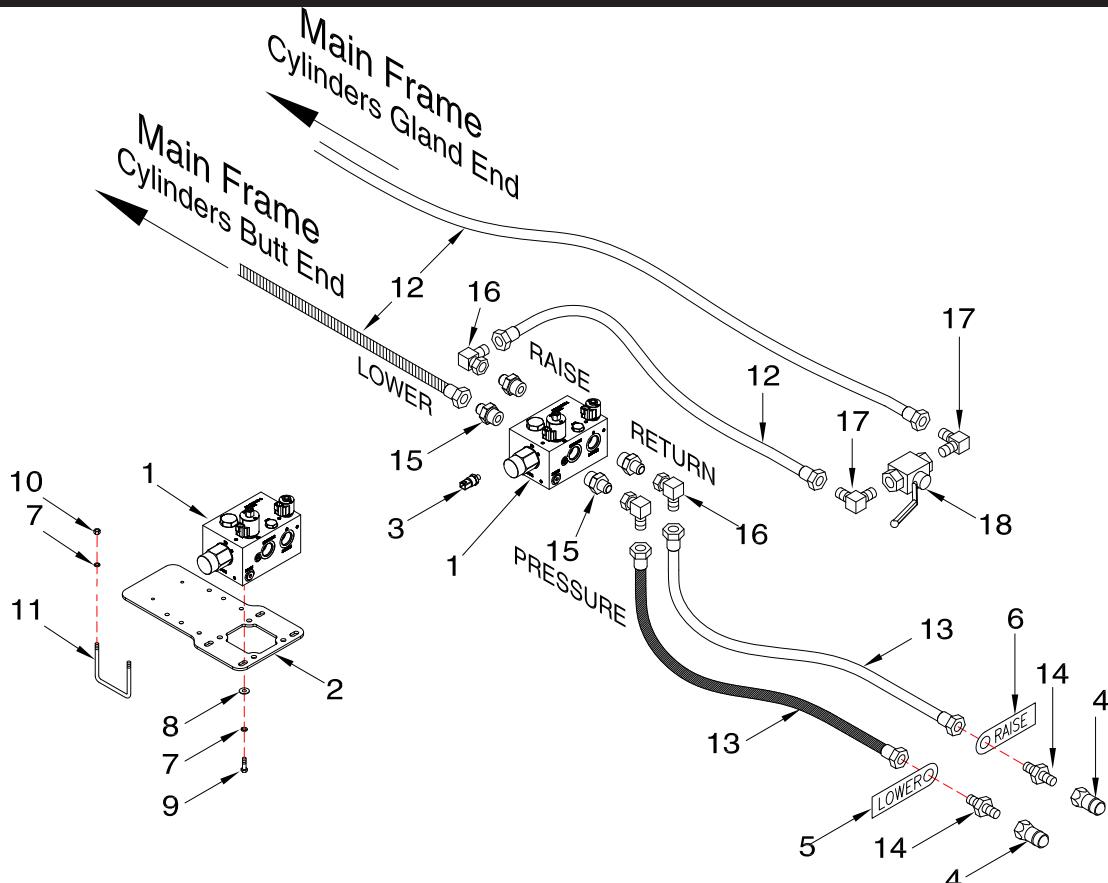
**Parts list items marked in red
are included in kit.**



Opener Hydraulics - Accumulator and Hitch Hydraulics - Row Unit Lock Up Kit

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | S47095 | 5 Gallon Hydraulic Accumulator - Global Certified..... | 1 |
| 2 | S42320 | Mounting Bracket - Accumulator..... | 1 |
| 3 | C42313 | Clamp - Accumulator | 1 |
| 4 | C42314 | Base - Accumulator | 1 |
| 5 | S44945 | Manifold Block - Down Pressure..... | 1 |
| 6 | N42880 | Valve - 2 Way Ball (Kit Quantity 2) | 5 |
| 6A | N42881 | Handle - Valve (Kit Quantity 2)..... | 5 |
| 7 | S49545 | Pressure Transducer | 1 |
| | N58963 | Pressure Transducer - Apollo System | |
| 8 | S48845 | Pressure Gauge - 2 1/2 Dia with 1/4NPT | 1 |
| 9 | S42998 | Connector - 1/4 FNPT x 9/16-18 FJIC..... | 2 |
| 10 | S34115 | Connector - 9/16-18 JIC x 7/16-20 MORB | 1 |
| 11 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC..... | 7 |
| 12 | F10384 | Connector - 9/16-18 MJIC x 7/8-14 FJIC..... | 3 |
| 13 | C42312 | Connector - 7/8-14 MJIC x 1 5/16-14 MORB..... | 1 |
| 14 | C42311 | Connector - 1 7/8-14 MORB x 1 5/16-14 FORB | 1 |
| 15 | C28505 | Plug - 3/4-16 MORB - Used on Ports not in use on Case Drain Header | 2 |
| 16 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF)..... | 1 |
| 17 | F24559 | Tee - (1) 7/8-14 FJIC x (2) 7/8-14 MJIC (MMF) | 1 |
| 18 | N34646 | 90 Elbow - 7/8-14 MJIC x 1 1/16-12 MORB..... | 1 |
| 19 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC..... | 1 |
| 20 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB | 6 |
| 21 | K-5806 | 90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC | 3 |
| 22 | W21963 | Hyd Hose - 1/4 x 96 Lg w/9/16-18 MJIC x 9/16-18 FJIC | 1 |
| 23 | F14659 | Hyd Hose - 1/4 x 230 Lg w/9/16-18 FJIC - Tow Behind | 1 |
| | C26341 | Hyd Hose - 1/4 x 282 Lg w/9/16-18 FJIC - Tow Between | |
| 24 | C-4468 | Hyd Hose - 1/2 x 24 Lg w/7/8-14 FJIC x 7/8-14 FJIC..... | 1 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC | 3 |
| 26 | H-4410 | Hyd Hose - 1/2 x 96 Lg w/7/8-14 FJIC | 1 |
| 27 | S39539 | Hyd Hose - 1/2 x 330 - 7/8-14 FJIC - 40 ft..... | 2 |
| | S39537 | Hyd Hose - 1/2 x 372 - 7/8-14 FJIC Ends - 50 & 60 ft..... | |
| 28 | S47642 | Multi-Valve Mounting Plate | 1 |
| 29 | S13336 | Nylon Tie Strap - 28 1/4 Lg | 12 |
| 29A | D-4838 | Nylon Tie Strap - 1/2 x 14 1/2 | 8 |
| 30 | N34443 | Male Tip - 3/4-16 MORB | 3 |
| 30A | K50834 | 3/8 Flat Face Tip - 3/4-16 FORB | 1 |
| 31 | N58670 | Case Drain Header | 1 |
| 32 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN | 1 |
| 33 | S29959 | Tag - Hose ID - Depth Control - LOWER | 1 |
| 34 | S29958 | Tag - Hose ID - Depth Control - RAISE..... | 1 |
| 35 | C-4262 | Decal - Warning - Pressure Hazard | 1 |
| 36 | S44355 | Decal - Opener | 1 |
| 37 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 4 |
| 38 | W-485 | Hex Bolt - 1/2 x 1 1/4 Lg | 6 |
| 39 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg . . . (Kit Quantity 4) | 6 |
| 40 | N15098 | U-Bolt - 3/8 x 4 x 5 Lg..... | 4 |
| 41 | C-4569 | U-Bolt - 5/8 x 4 5/8 x 3 1/4 Lg | 2 |
| 42 | W-521 | Lockwasher - 1/4 (Kit Quantity 8) | 15 |
| 43 | W-523 | Lockwasher - 3/8 | 12 |
| 44 | W-525 | Lockwasher - 1/2 | 6 |
| 45 | W-526 | Lockwasher - 5/8 | 4 |
| 46 | W-512 | Hex Nut - 1/4 (Kit Quantity 8) | 15 |
| 47 | W-514 | Hex Nut - 3/8 | 12 |
| 48 | W-516 | Hex Nut - 1/2 | 6 |
| 49 | W-517 | Hex Nut - 5/8 | 4 |
| 50 | S44930 | Decal - Pre-Charged Dry Nitrogen..... | 1 |
| 51 | S44932 | Decal - Compressed Nitrogen - UN1066 | 1 |
| 52 | S44929 | Tube - Accumulator Mount - 2 x 2 x 6 1/2 Lg | 1 |
| 53 | N58671 | Plate - Case Drain Header Mount..... | 1 |
| 54 | C15319 | Hex Bolt - 1/4 x 2 1/2 Lg | 3 |
| 55 | C-4394 | Tee - (3) 7/8-14 MJIC | 2 |
| 56 | N49460 | Connector - Swivel - 7/8-14 (#10) FJIC x 3/4-16 (#08) MORB | 4 |
| 57 | C-4383 | Hyd Hose - 1/2 x 20 Lg w/7/8-14 FJIC x 7/8-14 FJIC | 2 |
| 58 | S39504 | Hyd Hose - 1/2 x 168 Lg w/7/8-14 FJIC | 2 |
| 59 | S56730 | Valve Mounting Plate | 1 |
| 60 | P7C616 | Carriage Bolt - 3/8 x 1 Lg..... | 4 |
| 61 | D-5279 | Locknut - 3/8" Serrated Flange | 4 |
| 62 | S60593 | Decal | 1 |
| 63 | S60594 | Decal | 1 |
| 64 | C42310 | Cap Nut - 7/8-14 FJIC | 2 |

Opener Hydraulics
Active Hydraulic Kit - Optional



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S68006 | Manifold - Opener Control - 2000 psi (Includes S2 cartridge S68007) | 1 |
| 2 | S68516 | Valve Mounting Plate - Active Hydraulics | 1 |
| 3 | K62977 | Pressure Transducer | 1 |
| 4 | N34443 | Male Tip - 3/4-16 MORB | 2 |
| 5 | S29959 | Tag - Hose ID - Depth Control - LOWER | 1 |
| 6 | S29958 | Tag - Hose ID - Depth Control - RAISE | 1 |
| 7 | W-523 | Lockwasher - 3/8 ... (Valve Block 4) | 8 |
| 8 | W-538 | Flatwasher - 7/16 ID x 1 OD x 14 GA ... (Valve Block) | 4 |
| 9 | W-475 | Hex Bolt - 3/8 x 1 Lg(Valve Block) | 4 |
| 10 | W-514 | Nut - 3/8 | 4 |
| 11 | N15098 | U-Bolt - 3/8 x 4 3/8 x 5 Lg when mounting to a 4 x 4 Tube | 2 |
| | N19723 | U-Bolt - 3/8 x 4 x 7 Lg when mounting to a 4 x 6 Tube | 2 |
| | D12714 | U-Bolt - 3/8 x 2 3/8 x 3 Lg when mounting to a 2 x 2 Tube | |
| 12 | S58158 | Hyd Hose - 3/4 x 60 Lg w/7/8-14 FJIC | 3 |
| 13 | S58157 | Hyd Hose - 3/4 x 330 Lg - #10 7/8-14 FJIC Ends | 2 |
| 14 | C14840 | Connector - 7/8-14 MJIC x 3/4-16 MORB | 2 |
| 15 | N47903 | Connector - 7/8-14 (#10) MJIC x 1 1/16-12 (#12) MORB | 4 |
| 16 | K-5806 | 90 Elbow - 7/8-14 FJIC x 7/8-14 MJIC | 3 |
| | S68519 | Active Hydraulic Kit (Includes above Items) | |
| | | Items currently on Drill | |
| 17 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB | 2 |
| 18 | N42880 | Lock Valve - 2 Way Ball | 1 |
| 18A | N42881 | Handle - Valve | 1 |

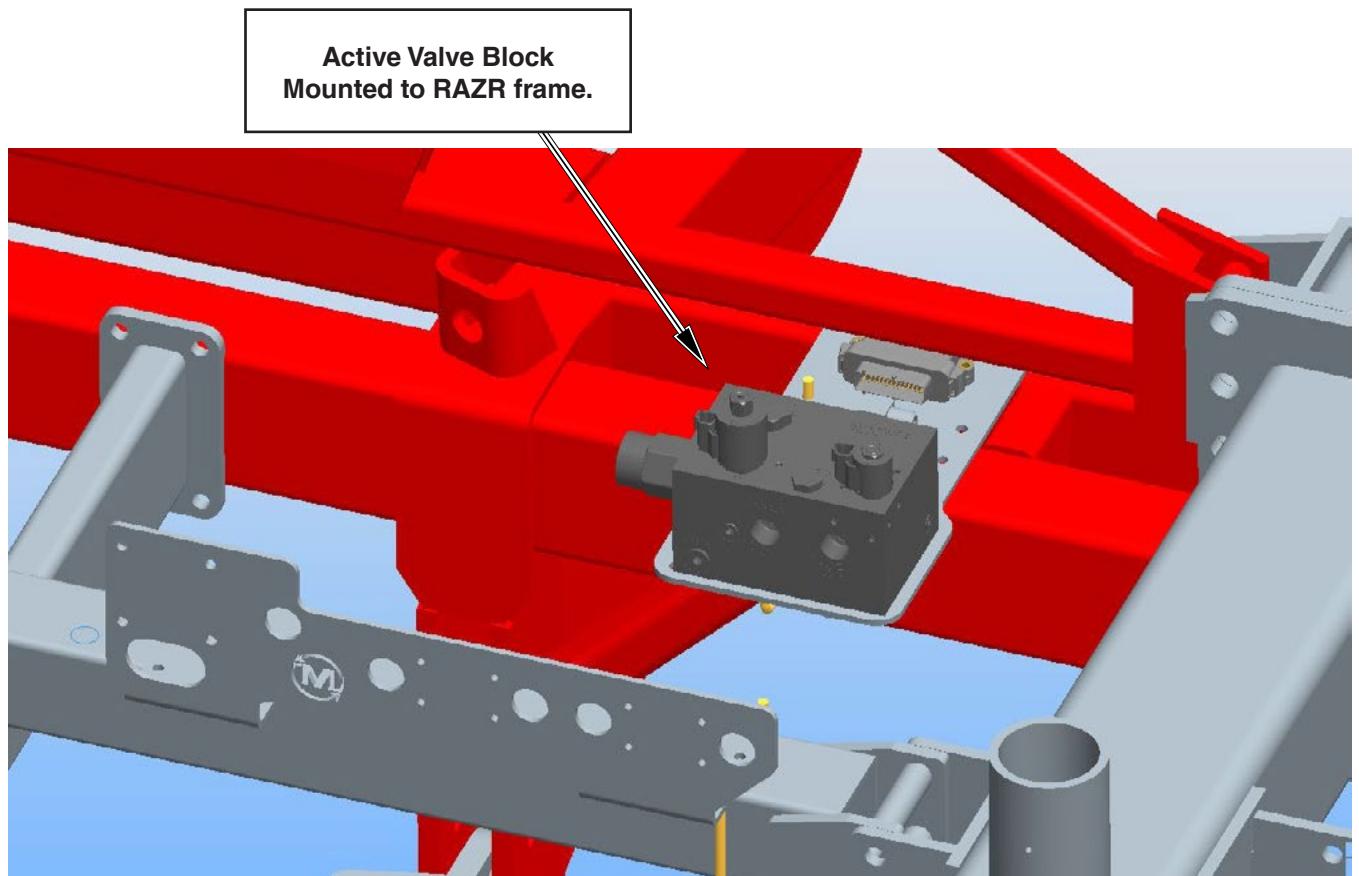
Opener Hydraulics - Active Hydraulic Kit - Optional

RAZR Disc Drill, C1 and C2 Contour Air Drill Customers wanting to use Morris' Active Hydraulic System can order S68519 Active Hydraulic Kit.

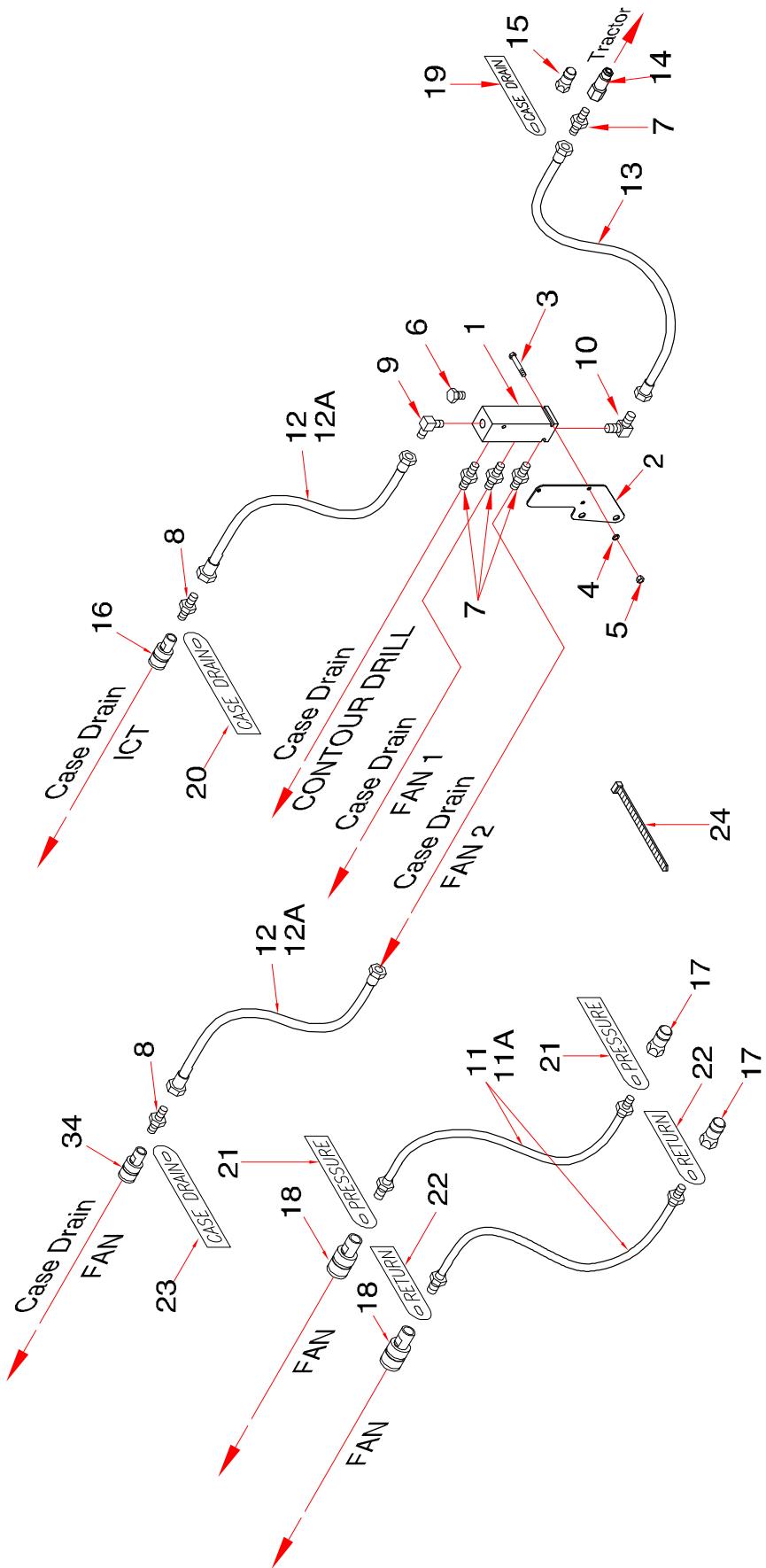
In addition to this kit the customer will require one of the following options to operate and control the functions of the active hydraulic system:

- i) Customer does not have an X35 Apollo System - N65144 JEM Kit is required.
- ii) Customer has 2-3 Tank X35 Apollo System - N67052 Control Kit is required.
- iii) Customer has 4 Tank X35 Apollo System - N67051 Control Kit is required.

The Active Hydraulic Kit eliminates the accumulator and passive valve block from the system replacing it with the active valve block.



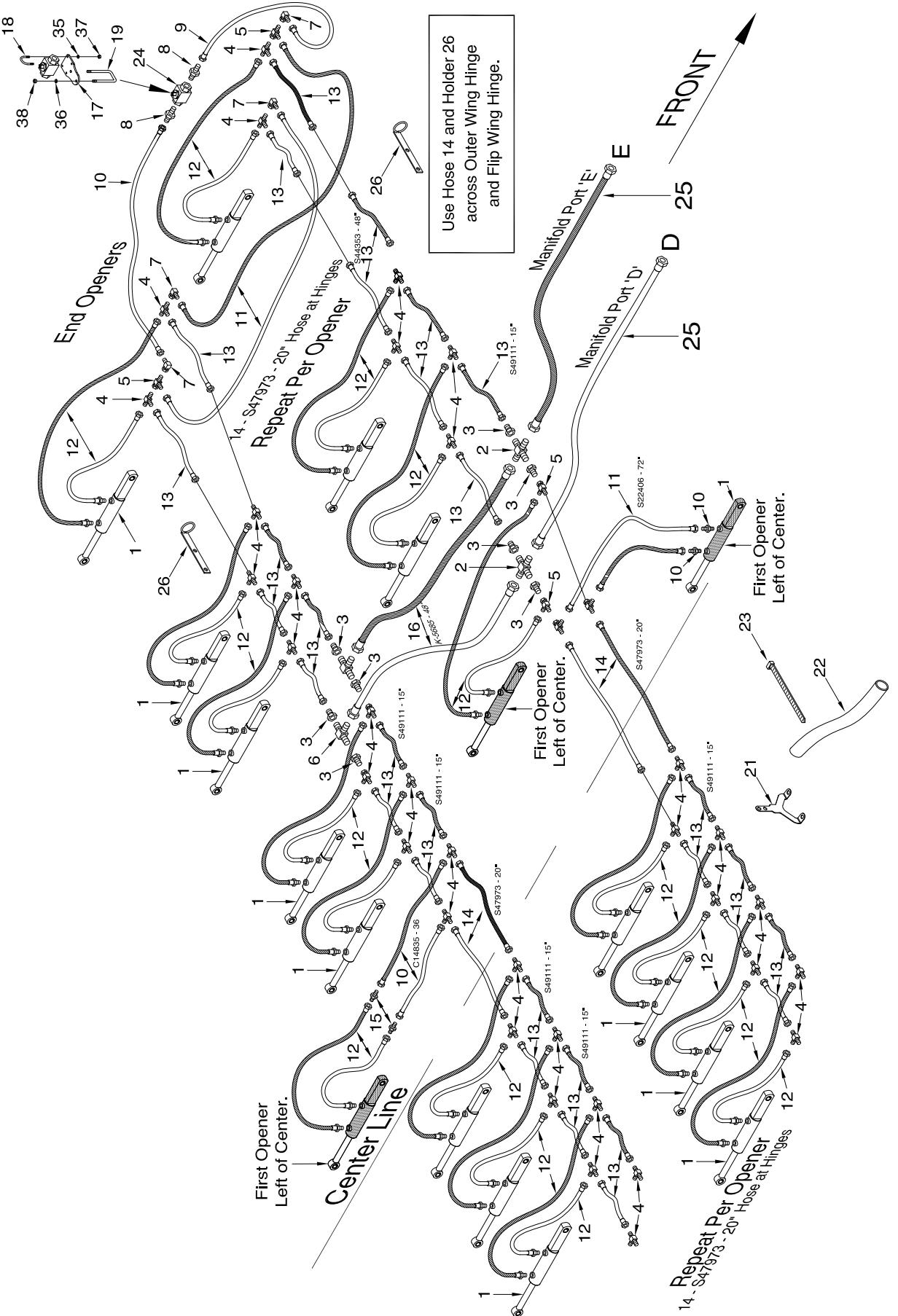
Opener Hydraulics
Case Drain - 2016 to Present



Opener Hydraulics - Case Drain - 2016 to Present

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | N58670 | Case Drain Header | 1 |
| 2 | N58671 | Plate - Case Drain Header Mount..... | 1 |
| 3 | C15319 | Hex Bolt - 1/4 x 2 1/2 Lg..... | 3 |
| 4 | W-521 | Lockwasher - 1/4..... | 3 |
| 5 | W-512 | Hex Nut - 1/4 | 3 |
| 6 | C28505 | Plug - 3/4-16 MORB - Used on Ports not in use on Case Drain Header..... | 1 |
| 7 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC | 4 |
| 8 | N34505 | Connector - Swivel - 7/8-14 MORB x 7/8-14 MJIC..... | 1 |
| 9 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB | 1 |
| 10 | N34646 | 90 Elbow - 7/8-14 MJIC x 1 1/16-12 MORB | 1 |
| 11 | N37036 | Hyd Hose - 3/4 x 396 Lg w/1 1/16-12 MORB (3-Frame Contour Air Drill) | 2 |
| 11A | N37035 | Hyd Hose - 3/4 x 348 Lg w/1 1/16-12 MORB | 2 |
| 11B | N44955 | Hyd Hose - 3/4 x 456 Lg w/1 1/16-12 MORB (5-Frame Contour Air Drill) | 2 |
| 12 | N50099 | Hyd Hose - 3/8 x 348 Lg w/7/8-14 FJIC x 7/8-14 FJIC Swivel End | 1 |
| 12A | N55806 | Hyd Hose - 3/8 x 300 Lg w/7/8-14 FJIC Ends..... | 1 |
| 12B | N50088 | Hyd Hose - 3/8 x 396 Lg w/7/8-14 FJIC Ends (5-Frame Contour Air Drill)..... | 1 |
| 13 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC..... | 1 |
| 14 | K50834 | 3/8 Flat Face Tip - 3/4-16 FORB | 1 |
| 15 | N34443 | 1/2 Male Pioneer Tip - 3/4-16 FORB | 2 |
| 16 | N34488 | 1/2 Pioneer Coupler - 7/8-14 FORB..... | 1 |
| 17 | N37914 | 3/4 Male Tip - 1 1/16-12 FORB..... | 2 |
| 18 | N37915 | 3/4 Female Coupler - 1 1/16-12 FORB..... | 2 |
| 19 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 1 |
| 20 | N58343 | Tag - Hose ID - ICT - CASE DRAIN | 1 |
| 21 | N34576 | Tag - Hose ID - Air Tank - Fan/Auger - PRESSURE | 3 |
| 21A | N58340 | Tag - Hose ID - Air Tank - Fan 2 - PRESSURE | 3 |
| 22 | N34577 | Tag - Hose ID - Air Tank - Fan/Auger - RETURN | 3 |
| 22A | N58341 | Tag - Hose ID - Air Tank - Fan 2 - RETURN | 3 |
| 23 | N34578 | Tag - Hose ID - Air Tank - Fan/Auger - CASE DRAIN | 3 |
| 23A | N58342 | Tag - Hose ID - Air Tank - Fan 2 - CASE DRAIN | 3 |
| 24 | D-4951 | Nylon Tie Strap - 7 3/8 Lg | 12 |

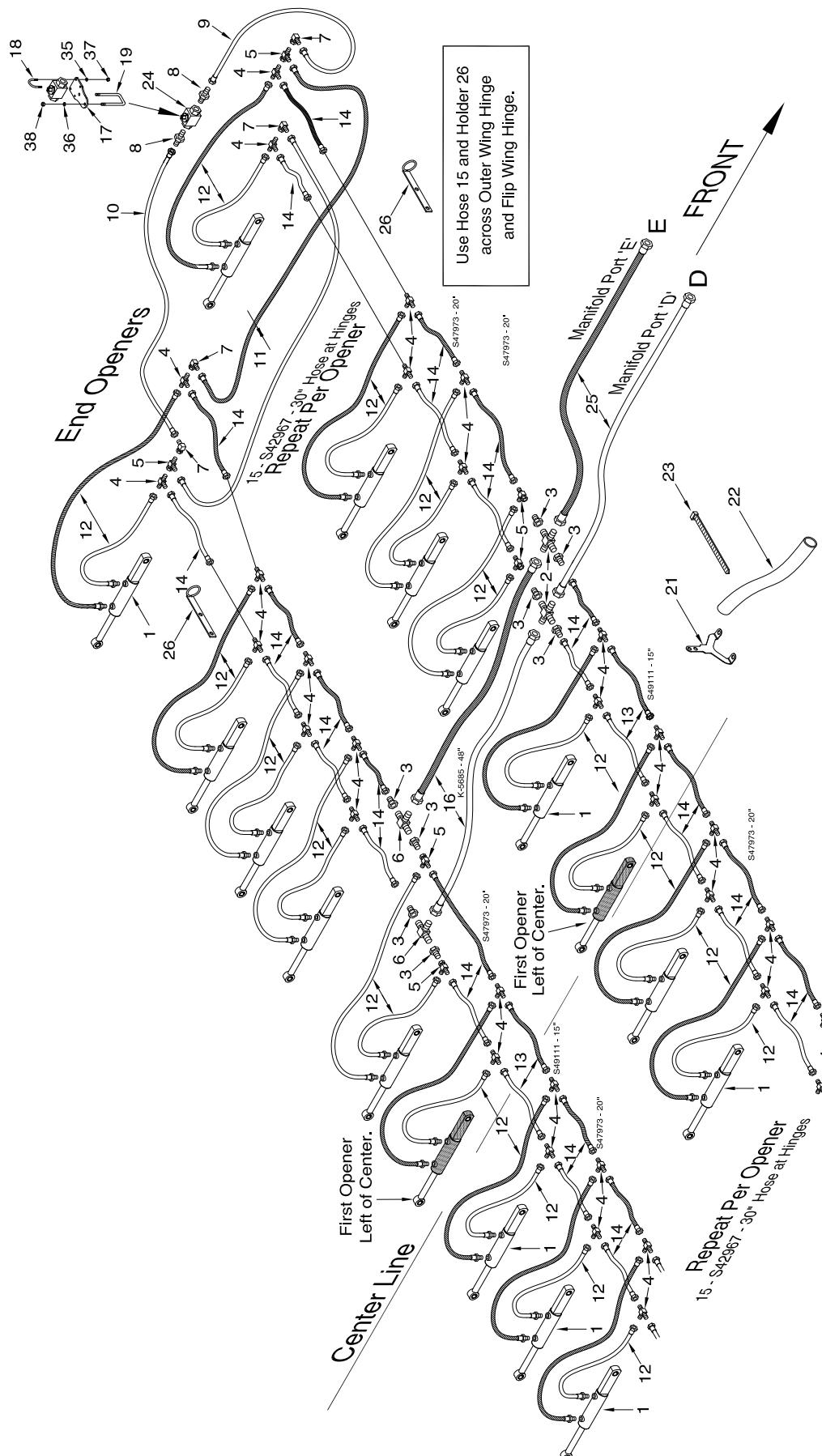
Opener Hydraulics 7 1/2 inch Spacing



Opener Hydraulics - 7 1/2 inch Spacing

| Item | Part No. | Description | Qty |
|------------|---------------|--|--------------|
| 1 | C51153 | Cylinder | AsReq |
| 2 | C-4401 | Cross - (4) 7/8-14 MJIC..... | 2 |
| 3 | F10384 | Reducer - 7/8-14 MJIC x 9/16-18 MJIC..... | 8 |
| 4 | C-4393 | Tee - (3) 9/16-18 MJIC..... | AsReq |
| 5 | C-4403 | Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF)..... | 4 |
| 6 | C-4394 | Tee - (3) 7/8-14 MJIC | 2 |
| 7 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC | 4 |
| 8 | C15348 | Connector - 9/16-18 MJIC x 3/4-16 MORB | 4 |
| 9 | C-4552 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC | 2 |
| 10 | C14835 | Hyd Hose - 1/4 x 36 Lg w/ #6 9/16-18 FJIC (60 ft)..... | 2 |
| | C15349 | Hyd Hose - 1/4 x 48 Lg w/ #6 9/16-18 FJIC (40, 50 & 60 Ft)..... | 2 |
| 11 | S22406 | Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC | 4 |
| 12 | S44352 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB | AsReq |
| 13 | N49111 | Hyd Hose - 3/8 x 15 Lg w/ #6 9/16-18 FJIC | AsReq |
| 14 | S47973 | Hyd Hose - 3/8 x 20 Lg w/ #6 9/16-18 FJIC - Across Inner Wing Hinges..... | AsReq |
| 14A | S42967 | Hyd Hose - 3/8 x 30 Lg w/ #6 9/16-18 FJIC - Across Outer Wing Hinges..... | AsReq |
| 15 | N29358 | Connector - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB..... | 2 |
| 16 | K-5685 | Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC | 2 |
| 17 | S39546 | Mount Plate - Ball Valve | 2 |
| 18 | N34319 | U-Bolt - 1/4 x 1 1/2 x 2 | 4 |
| 19 | N34423 | U-Bolt - 3/8 x 2 x 7 Lg | 2 |
| 20 | C-4698 | Oil Line Clamp | 12 |
| 21 | S48631 | Hose Holder | AsReq |
| 22 | R480045 | Hose Cover - 2 ID Bulk/foot | AsReq |
| 23 | D-4951 | Nylon Tie Strap - 1/2 x 7 3/8..... | AsReq |
| 24 | N42880 | Lock Valve | 2 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC | 2 |
| 26 | S44313 | Hose Holder | 6 |
| 27 | C-4569 | U-Bolt - 5/8 x 4 x 3 1/4 Lg | 2 |
| 28 | W-526 | Lockwasher - 5/8..... | 4 |
| 29 | W-517 | Hex Nut - 5/8 | 4 |
| 30 | C14411 | Oil Line Bracket..... | 6 |
| 31 | W-538 | Flatwasher - 3/8 | 6 |
| 32 | M-3388 | Locknut - 3/8 | 6 |
| 33 | W-480 | Hex Bolt - 3/8 x 2 1/2..... | 6 |
| 34 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 6 |
| 35 | W-521 | Lockwasher - 1/4..... | 8 |
| 36 | W-523 | Lockwasher - 3/8..... | 6 |
| 37 | W-512 | Hex Nut - 1/4 | 8 |
| 38 | W-514 | Hex Nut - 3/8 | 6 |

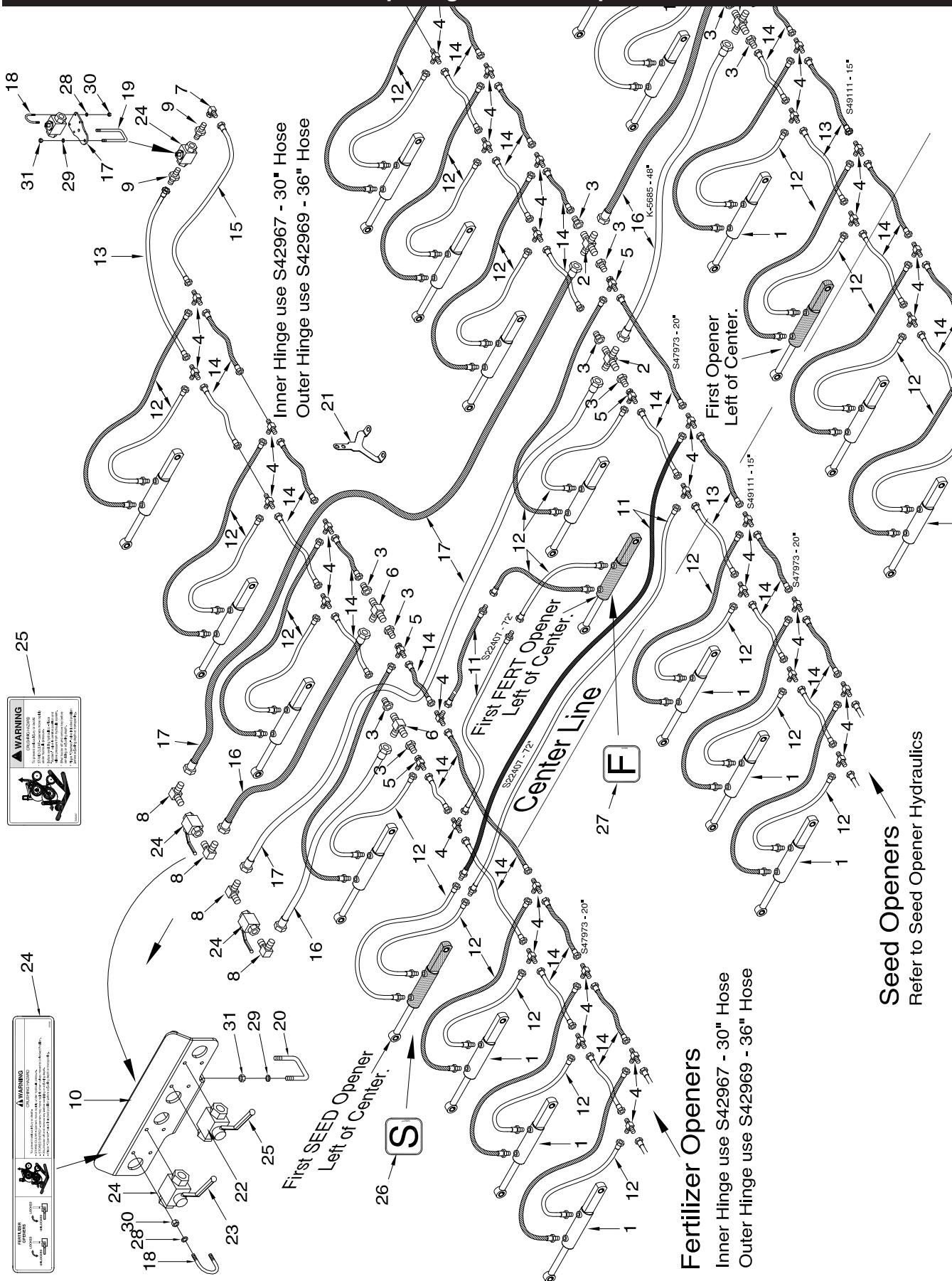
Opener Hydraulics 10 inch Spacing



Opener Hydraulics - 10 inch Spacing

| Item | Part No. | Description | No: Used | | |
|------|----------|---|----------|-------|-------|
| | | | 40 ft | 50 ft | 60 ft |
| | | Quantities Listed are for the Seed Openers only. Refer to Fertilizer Opener Hydraulics for additional information. | | | |
| 1 | C51153 | Cylinder | 47 | 59 | 71 |
| 2 | C-4401 | Cross - (4) 7/8-14 MJIC | 2 | 2 | 2 |
| 3 | F10384 | Reducer - 7/8-14 MJIC x 9/16-18 MJIC | 8 | 8 | 8 |
| 4 | C-4393 | Tee - (3) 9/16-18 MJIC | 90 | 114 | 138 |
| 5 | C-4403 | Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF) | 4 | 4 | 4 |
| 6 | C-4394 | Tee - (3) 7/8-14 MJIC | 2 | 2 | 2 |
| 7 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC..... | 4 | 4 | 4 |
| 8 | C15348 | Connector - 9/16-18 MJIC x 3/4-16 MORB..... | 4 | 4 | 4 |
| 9 | C-4552 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC | 2 | 2 | 2 |
| 10 | C15349 | Hyd Hose - 1/4 x 48 Lg w/ #6 9/16-18 FJIC | 2 | 2 | 2 |
| 11 | S22406 | Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC | 4 | 4 | 4 |
| 12 | S44352 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB..... | 94 | 118 | 142 |
| 13 | N49111 | Hyd Hose - 3/8 x 15 Lg w/ #6 9/16-18 FJIC | 4 | 4 | 4 |
| 14 | S47973 | Hyd Hose - 3/8 x 20 Lg w/ #6 9/16-18 FJIC | 78 | 94 | 118 |
| 15 | S42967 | Hyd Hose - 3/8 x 30 Lg w/ #6 9/16-18 FJIC - Across Hinges | 8 | 8 | 8 |
| 16 | K-5685 | Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 17 | S39546 | Mount Plate - Ball Valve | 2 | 2 | 2 |
| 18 | N34319 | U-Bolt - 1/4 x 1 1/2 x 2..... | 4 | 4 | 4 |
| 19 | N34423 | U-Bolt - 3/8 x 2 x 7 Lg..... | 2 | 2 | 2 |
| 20 | C-4698 | Oil Line Clamp..... | 12 | 12 | 12 |
| 21 | S48631 | Hose Holder | 47 | 59 | 71 |
| 22 | R480045 | Hose Cover - 2 ID Bulk/foot - 12ft..... | 1 | 1 | 1 |
| 23 | D-4951 | Nylon Tie Strap - 1/2 x 7 3/8 | - | - | - |
| 24 | N42880 | Lock Valve | 2 | 2 | 2 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 26 | S44313 | Hose Holder | 6 | 6 | 6 |
| 27 | C-4569 | U-Bolt - 5/8 x 4 x 3 1/4 Lg..... | 2 | 2 | 2 |
| 28 | W-526 | Lockwasher - 5/8 | 4 | 4 | 4 |
| 29 | W-517 | Hex Nut - 5/8 | 4 | 4 | 4 |
| 30 | C14411 | Oil Line Bracket | 6 | 6 | 6 |
| 31 | W-538 | Flatwasher - 3/8..... | 6 | 6 | 6 |
| 32 | M-3388 | Locknut - 3/8..... | 6 | 6 | 6 |
| 33 | W-480 | Hex Bolt - 3/8 x 2 1/2 | 6 | 6 | 6 |
| 34 | C-3918 | Hex Bolt - 3/8 x 5 Lg..... | 6 | 6 | 6 |
| 35 | W-521 | Lockwasher - 1/4 | 8 | 8 | 8 |
| 36 | W-523 | Lockwasher - 3/8 | 6 | 6 | 6 |
| 37 | W-512 | Hex Nut - 1/4 | 8 | 8 | 8 |
| 38 | W-514 | Hex Nut - 3/8 | 6 | 6 | 6 |

Opener Hydraulics
10 inch Spacing - Fertilizer Openers

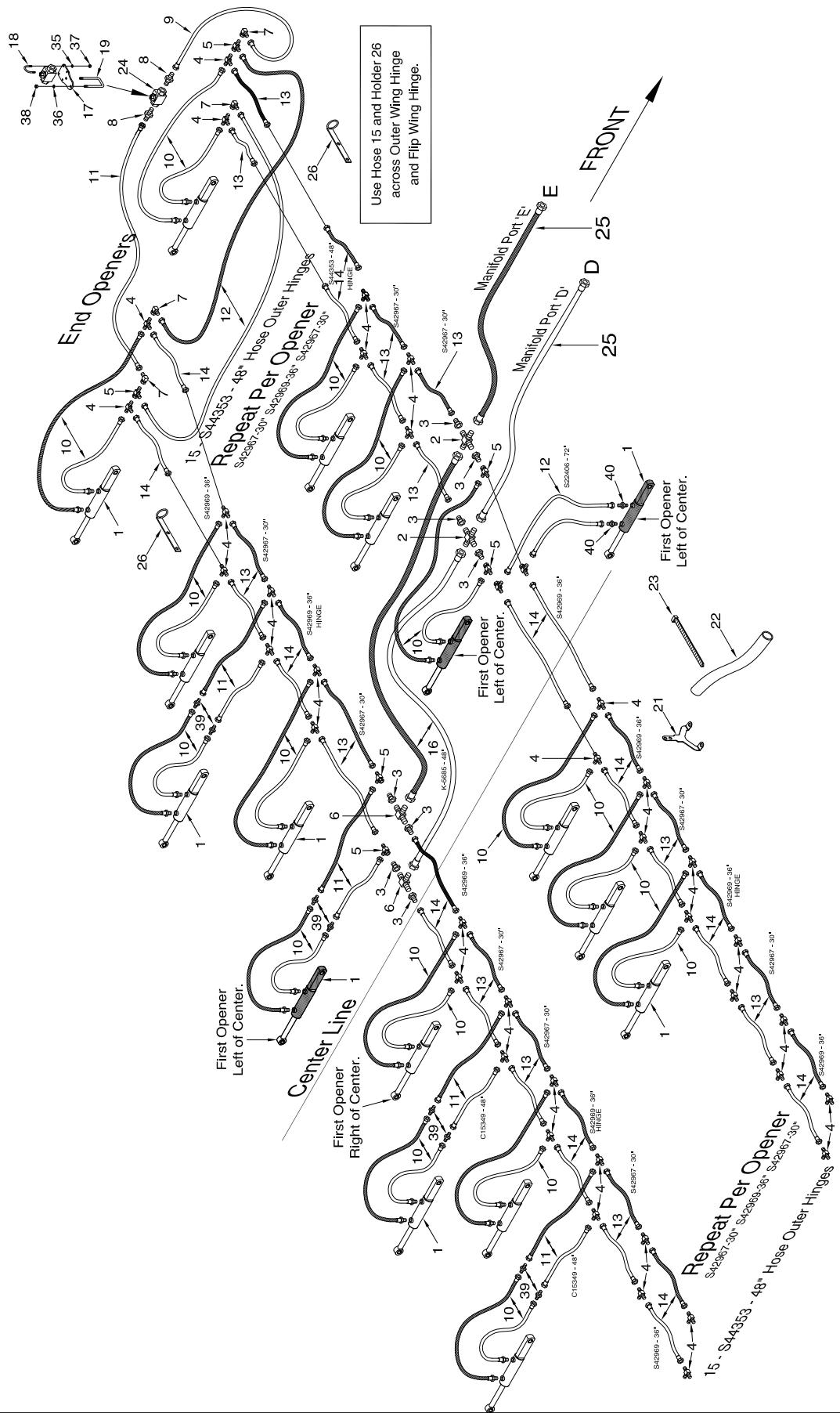


Fertilizer Openers - 10 inch Spacing

| Item | Part No. | Description | No: Used | | |
|------|---------------|---|----------|----------|----------|
| | | | 40 ft | 50 ft | 60 ft |
| | | Quantities Listed are for the Fertilizer Openers only. Refer to Seed Opener Hydraulics for additional information. | | | |
| 1 | C51153 | Cylinder | 24 | 30 | 36 |
| 2 | C-4401 | Cross - (4) 7/8-14 MJIC | 2 | 2 | 2 |
| 3 | F10384 | Reducer - 7/8-14 MJIC x 9/16-18 MJIC | 4 | 4 | 4 |
| 4 | C-4393 | Tee - (3) 9/16-18 MJIC | 46 | 58 | 70 |
| 5 | C-4403 | Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF) | 2 | 2 | 2 |
| 6 | C-4394 | Tee - (3) 7/8-14 MJIC | 2 | 2 | 2 |
| 7 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC..... | 2 | 2 | 2 |
| 8 | C24585 | 90 Elbow - 7/8-14 MJIC x 3/4-16 MORB | 4 | 4 | 4 |
| 9 | C15348 | Connector - 9/16-18 MJIC x 3/4-16 MORB..... | 4 | 4 | 4 |
| 10 | S55261 | Mount Plate - Ball Valve | 2 | 2 | 2 |
| 11 | S22407 | Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MJIC | 4 | 4 | 4 |
| 12 | S44352 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB..... | 48 | 60 | 72 |
| 13 | S47973 | Hyd Hose - 3/8 x 20 Lg w/ #6 9/16-18 FJIC | 2 | 2 | 2 |
| 14 | S47973 | Hyd Hose - 3/8 x 20 Lg w/ #6 9/16-18 FJIC | 42 | 50 | 62 |
| 15 | S42967 | Hyd Hose - 3/8 x 30 Lg w/ #6 9/16-18 FJIC - Across Inner Hinges..... | 6 | 6 | 6 |
| 15A | S42969 | Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC - Across Outer Hinges..... | - | 4 | 4 |
| 16 | K-5685 | Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 17 | H-4410 | Hyd Hose - 1/2 x 96 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 18 | N34319 | U-Bolt - 1/4 x 1 1/2 x 2..... | 8 | 8 | 8 |
| 19 | N34423 | U-Bolt - 3/8 x 2 x 7 Lg..... | 2 | 2 | 2 |
| 20 | N15098 | U-Bolt - 3/8 x 4 x 5 Lg..... | 2 | 2 | 2 |
| 21 | S48631 | Hose Holder | 24 | 30 | 36 |
| 22 | N42880 | Lock Valve | 4 | 4 | 4 |
| 23 | N42881 | Handle - Valve | 2 | 2 | 2 |
| 24 | S55266 | Decal - Lockout Valves Coulter Beams..... | 1 | 1 | 1 |
| 25 | S55267 | Decal - Lockout Warning Coulter Beams..... | 4 | 4 | 4 |
| 26 | S55277 | Decal - "S" - SEED Opener Label..... | 3 | 3 | 3 |
| 27 | S55278 | Decal - "F" - FERTILIZER Opener Label | 3 | 3 | 3 |
| 28 | W-521 | Lockwasher - 1/4 | 16 | 16 | 16 |
| 29 | W-523 | Lockwasher - 3/8 | 8 | 8 | 8 |
| 30 | W-512 | Hex Nut - 1/4 | 16 | 16 | 16 |
| 31 | W-514 | Hex Nut - 3/8 | 8 | 8 | 8 |

Opener Hydraulics

15 inch Spacing

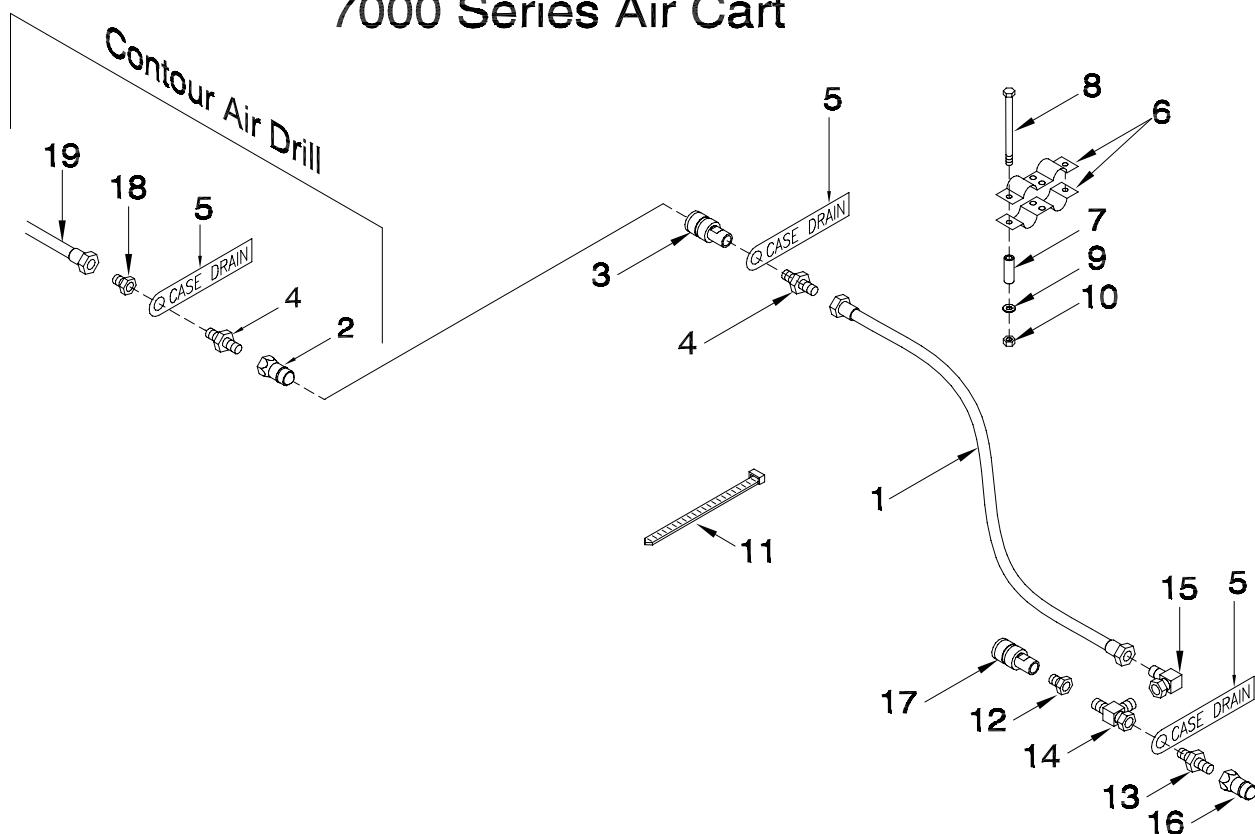


Opener Hydraulics - 15 inch Spacing

| Item | Part No. | Description | No: Used | | |
|------|---------------|--|-----------|-----------|-----------|
| | | | 40 ft | 50 ft | 60 ft |
| 1 | C51153 | Cylinder | 32 | 40 | 48 |
| 2 | C-4401 | Cross - (4) 7/8-14 MJIC | 2 | 2 | 2 |
| 3 | F10384 | Reducer - 7/8-14 MJIC x 9/16-18 MJIC | 8 | 8 | 8 |
| 4 | C-4393 | Tee - (3) 9/16-18 MJIC | 60 | 74 | 90 |
| 5 | C-4403 | Tee - (2) 9/16-18 MJIC x (1) 9/16-18 FJIC (MMF) | 4 | 4 | 4 |
| 6 | C-4394 | Tee - (3) 7/8-14 MJIC | 2 | 2 | 2 |
| 7 | S29967 | 90 Elbow - 9/16-18 FJIC x 9/16-18 MJIC | 4 | 4 | 4 |
| 8 | C15348 | Connector - 9/16-18 MJIC x 3/4-16 MORB | 4 | 4 | 4 |
| 9 | C-4552 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC | 2 | 2 | 2 |
| 10 | S44352 | Hyd Hose - 1/4 x 24 Lg w/ #6 9/16-18 FJIC x #6 9/16-18 MORB | 62 | 78 | 94 |
| 11 | C15349 | Hyd Hose - 1/4 x 48 Lg w/ #6 9/16-18 FJIC | 16 | 20 | 24 |
| 12 | S22406 | Hyd Hose - 1/4 x 72 Lg w/ #6 9/16-18 FJIC | 6 | 6 | 6 |
| 13 | S42967 | Hyd Hose - 3/8 x 30 Lg w/ #6 9/16-18 FJIC | 32 | 44 | 56 |
| 14 | S42969 | Hyd Hose - 3/8 x 36 Lg w/ #6 9/16-18 FJIC | 26 | 22 | 22 |
| 15 | S44353 | Hyd Hose - 3/8 x 48 Lg w/ #6 9/16-18 FJIC - Across Outer Hinges - 5 frame | 0 | 8 | 12 |
| 16 | K-5685 | Hyd Hose - 1/2 x 48 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 17 | S39546 | Mount Plate - Ball Valve | 2 | 2 | 2 |
| 18 | N34319 | U-Bolt - 1/4 x 1 1/2 x 2 | 4 | 4 | 4 |
| 19 | N34423 | U-Bolt - 3/8 x 2 x 7 Lg | 2 | 2 | 2 |
| 20 | C-4698 | Oil Line Clamp | 12 | 12 | 12 |
| 21 | S48631 | Hose Holder | 32 | 40 | 48 |
| 22 | R480045 | Hose Cover - 2 ID Bulk/foot - 12 ft length | 1 | 1 | 1 |
| 23 | D-4951 | Nylon Tie Strap - 1/2 x 7 3/8 | 16 | 16 | 16 |
| 24 | N42880 | Lock Valve | 2 | 2 | 2 |
| 25 | F-4565 | Hyd Hose - 1/2 x 60 Lg w/7/8-14 FJIC | 2 | 2 | 2 |
| 26 | S44313 | Hose Holder | 6 | 6 | 6 |
| 27 | C-4569 | U-Bolt - 5/8 x 4 x 3 1/4 Lg | 2 | 2 | 2 |
| 28 | W-526 | Lockwasher - 5/8 | 4 | 4 | 4 |
| 29 | W-517 | Hex Nut - 5/8 | 4 | 4 | 4 |
| 30 | C14411 | Oil Line Bracket | 6 | 6 | 6 |
| 31 | W-538 | Flatwasher - 3/8 | 6 | 6 | 6 |
| 32 | M-3388 | Locknut - 3/8 | 6 | 6 | 6 |
| 33 | W-480 | Hex Bolt - 3/8 x 2 1/2 | 6 | 6 | 6 |
| 34 | C-3918 | Hex Bolt - 3/8 x 5 Lg | 6 | 6 | 6 |
| 35 | W-521 | Lockwasher - 1/4 | 8 | 8 | 8 |
| 36 | W-523 | Lockwasher - 3/8 | 6 | 6 | 6 |
| 37 | W-512 | Hex Nut - 1/4 | 8 | 8 | 8 |
| 38 | W-514 | Hex Nut - 3/8 | 6 | 6 | 6 |
| 39 | H18269 | Connector - 9/16-18 (#06) MJIC | 16 | 20 | 24 |
| 40 | N29358 | Connector - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB | 2 | 2 | 2 |

Opener Hydraulics
Tow Between Air Cart - 7000 Series

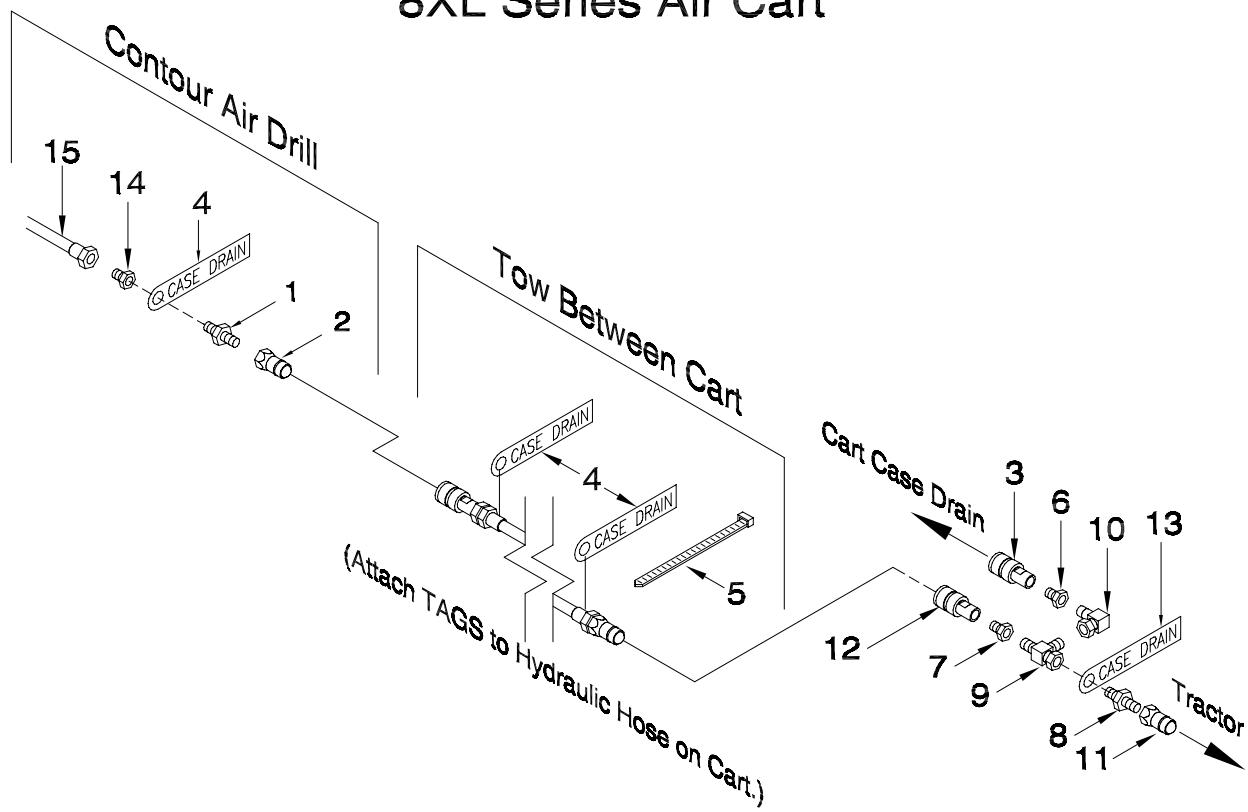
7000 Series Air Cart



| Item | Part No. | Description | Qty |
|---|----------|--|-----|
| KIT ITEMS - TOW BETWEEN | | | |
| 1 | C26337 | Hyd Hose - 1/2 x 276 Lg w/7/8-14 FJIC..... | 1 |
| 2 | N34498 | Male Tip - 7/8-14 MORB..... | 1 |
| 3 | N34488 | Pioneer Coupler - 7/8-14 FORB..... | 1 |
| 4 | N36489 | Connector - 7/8-14 MORB x 7/8-14 MJIC | 2 |
| 5 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 3 |
| 6 | N16608 | Coupler Clamp - Female Pioneer..... | 2 |
| 7 | N19458 | Spacer - 2 | 2 |
| 8 | H-4696 | Hex Bolt - 1/4 x 3 Lg..... | 2 |
| 9 | W-521 | Lockwasher - 1/4..... | 4 |
| 10 | W-512 | Hex Nut - 1/4 | 4 |
| 11 | D-4951 | Nylon Tie Strap - 7 3/8 Lg..... | 2 |
| ITEMS MOVED FROM CONTOUR AIR DRILL | | | |
| 12 | N34620 | Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC | 1 |
| 13 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC | 1 |
| 14 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF) | 1 |
| 15 | K-5806 | 90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC | 1 |
| 16 | N34443 | Male Tip - 3/4-16 MORB..... | 1 |
| 17 | N34488 | Pioneer Coupler - 7/8-14 FORB..... | 1 |
| CONTOUR AIR DRILL ITEMS | | | |
| 18 | F10384 | Reducer - 9/16-18 MJIC x 7/8-14 FJIC | 3 |
| 19 | C26341 | Hyd Hose - 1/4 x 282 Lg w/9/16-18 FJIC | 1 |

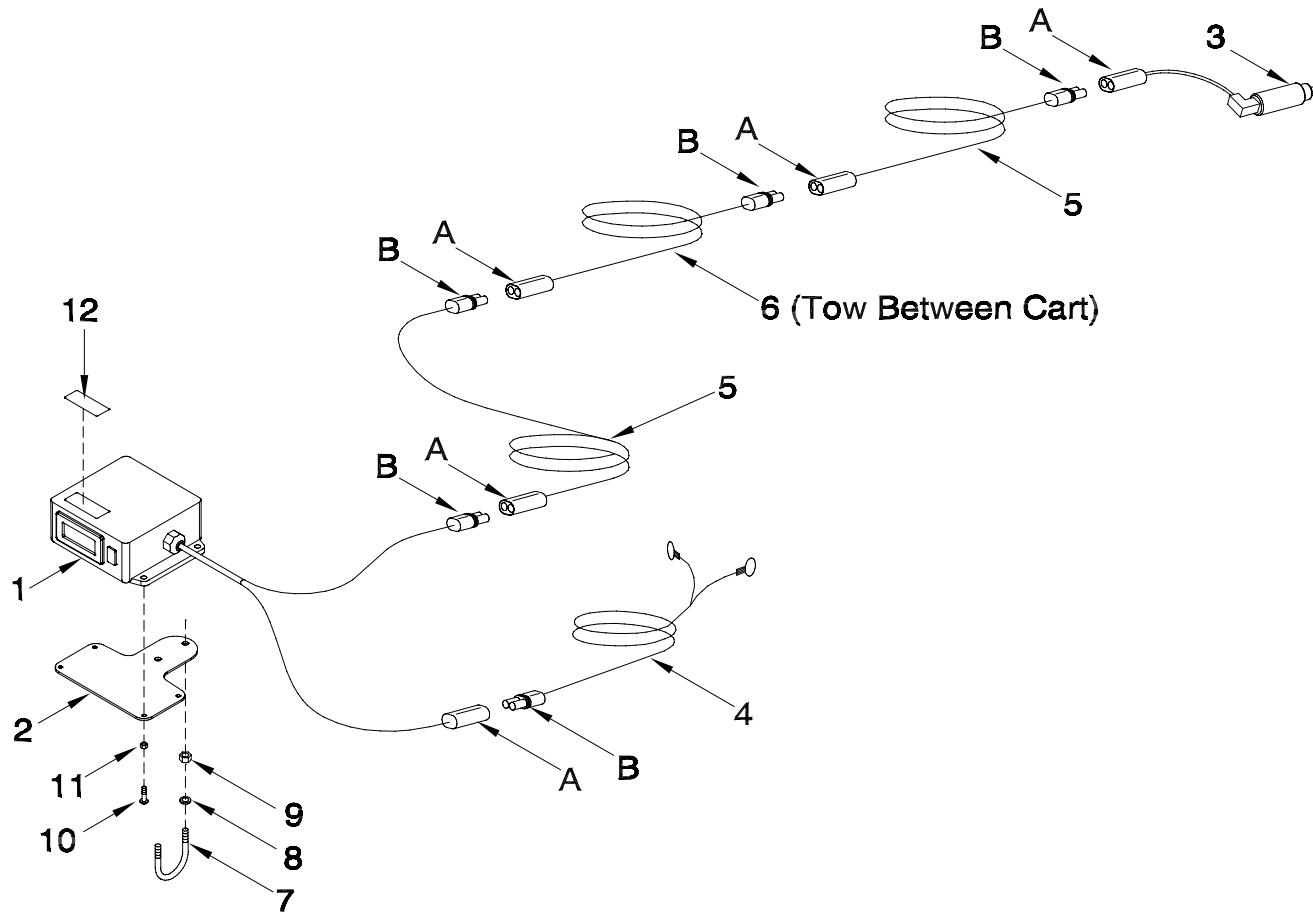
Opener Hydraulics
Tow Between Air Cart - 8XL Series

8XL Series Air Cart



| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| | | KIT ITEMS - TOW BETWEEN | |
| 1 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC..... | 6 |
| 2 | N34498 | Male Tip - 7/8-14 MORB..... | 1 |
| 3 | N34488 | Pioneer Coupler - 7/8-14 FORB..... | 1 |
| 4 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 2 |
| 5 | D-4951 | Nylon Tie Strap - 7 3/8 Lg..... | 2 |
| 6 | N34620 | Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC | 2 |
| | | ITEMS MOVED FROM CONTOUR AIR DRILL | |
| 7 | N34620 | Connector - Swivel - 7/8-14 MORB x 7/8-14 FJIC | 1 |
| 8 | C14840 | Connector - 3/4-16 MORB x 7/8-14 MJIC | 1 |
| 9 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC (MMF) | 1 |
| 10 | K-5806 | 90 Elbow - Swivel - 7/8-14 MJIC x 7/8-14 FJIC | 1 |
| 11 | N34443 | Male Tip - 3/4-16 MORB..... | 1 |
| 12 | N34488 | Pioneer Coupler - 7/8-14 FORB..... | 1 |
| 13 | S44468 | Tag - Hose ID - Reducing Valve - CASE DRAIN..... | 1 |
| | | CONTOUR AIR DRILL ITEMS | |
| 14 | F10384 | Reducer - 9/16-18 MJIC x 7/8-14 FJIC | 3 |
| 15 | C26341 | Hyd Hose - 1/4 x 282 Lg w/9/16-18 FJIC | 1 |

Pressure Control Digital Gauge - Standard Passive System

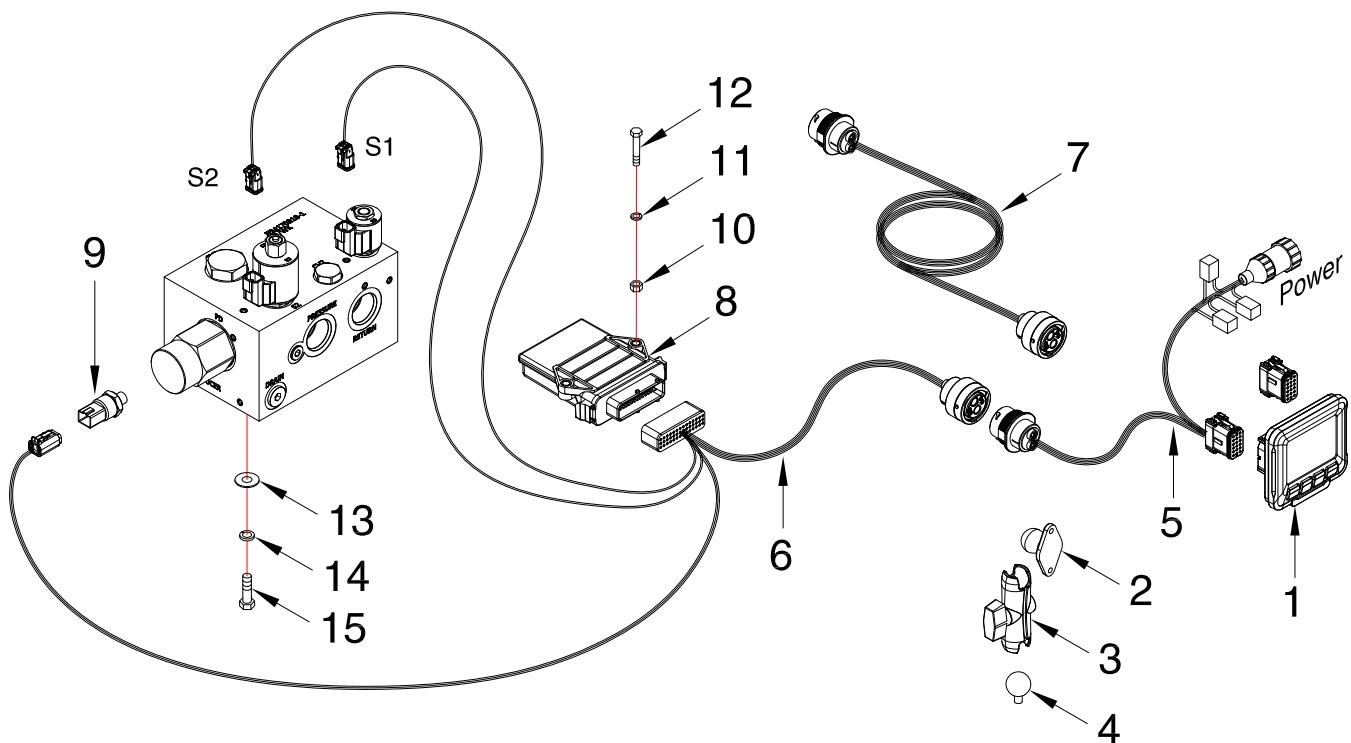


Note: TOPCON option only uses items 3, 5, and 6.

Apollo System does not use any of the above components. See 9 Series Parts Manual for details.

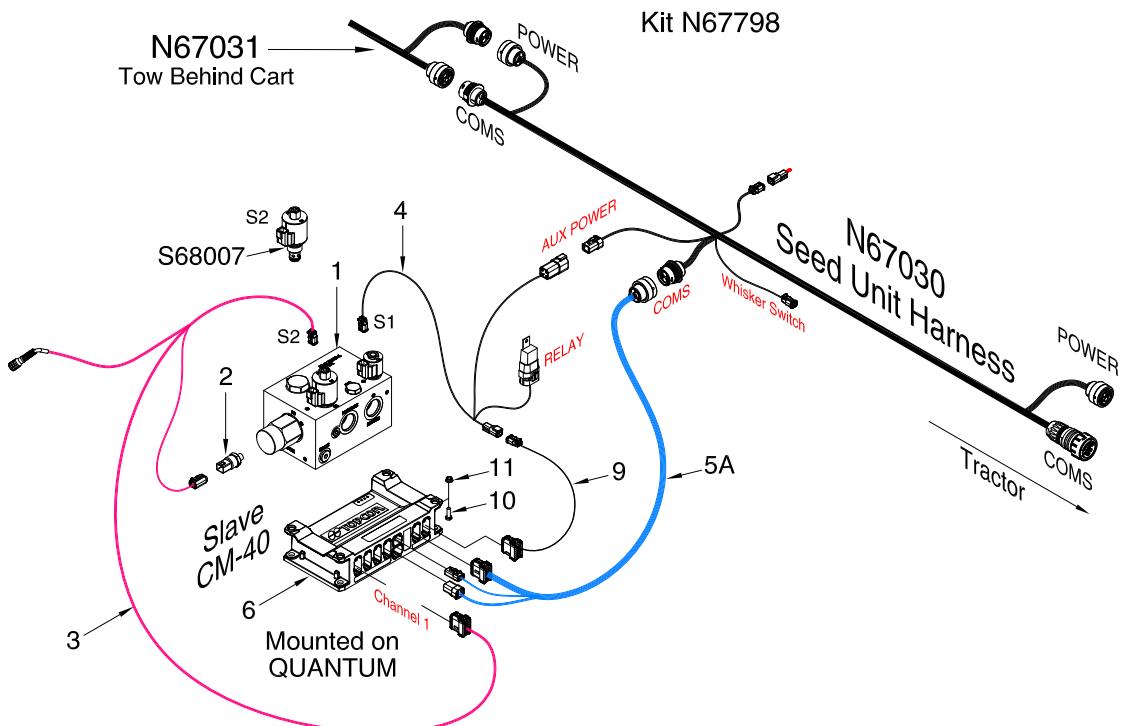
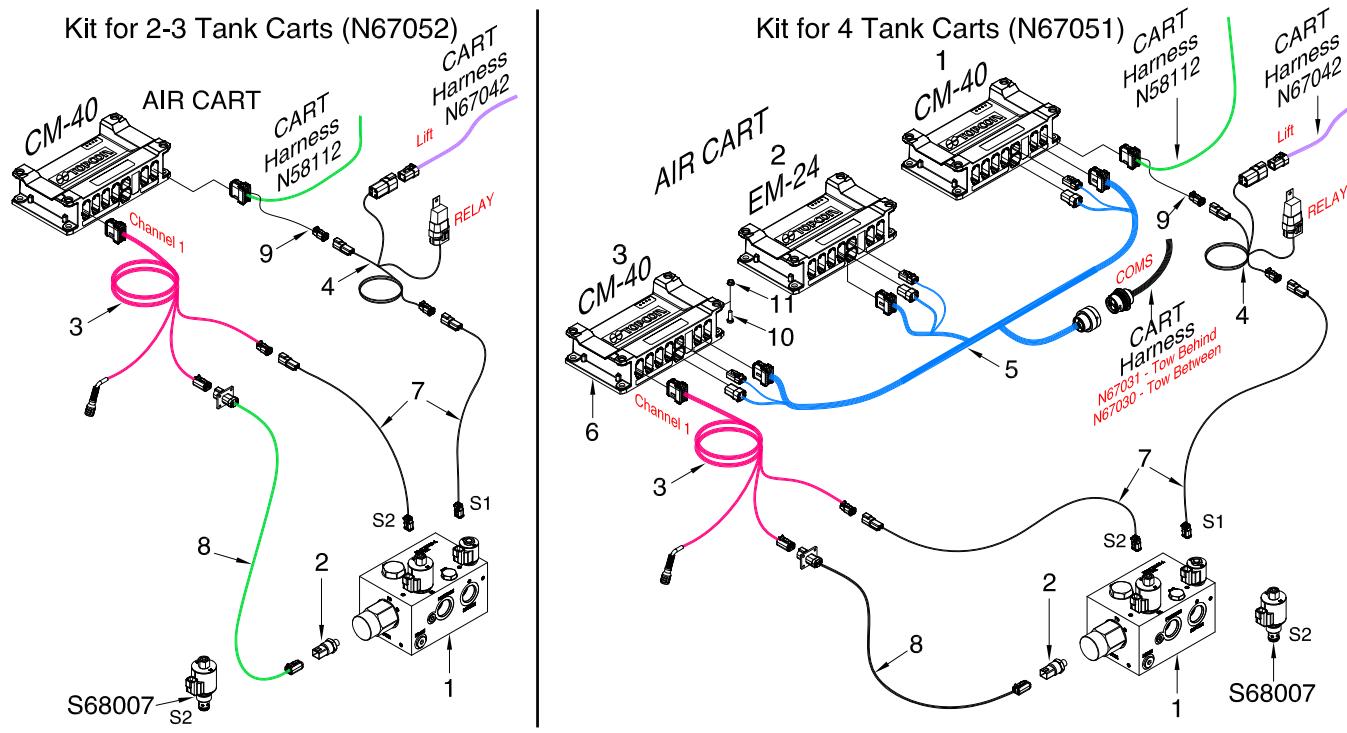
| Item | Part No. | Description | Qty |
|-------------------------------|----------|--|-----|
| 1 | S42999 | Digital Gauge (Includes item 12) | 1 |
| 2 | S44350 | Mounting Bracket - Digital Gauge | 1 |
| 3 | S49545 | Pressure Transducer | 1 |
| N58963 | | Pressure Transducer - Apollo System (Not included in Kit N46098) | |
| K62977 | | Pressure Transducer - Apollo System - 2018 (Not included in Kit N46098) | |
| 4 | N27609 | Power Cable - Monitor | 1 |
| 5 | N37018 | Extension Cable - 20 ft Lg | 2 |
| 6 | N37020 | Extension Cable - 30 ft Lg (Tow Between Air Cart) | 1 |
| 7 | N34319 | U-Bolt - 1/4 x 1 1/2 x 1 3/4 Lg | 1 |
| 8 | W-521 | Lockwasher - 1/4 | 2 |
| 9 | W-512 | Hex Nut - 1/4 | 2 |
| 10 | N29486 | Machine Screw - #8 x 5/8 | 4 |
| 11 | N16564 | Locknut - #8 - Serrated | 4 |
| 12 | S44464 | Decal - Digital Gauge Identification | 1 |
| | N46098 | Kit: Contour Pressure Display (Includes above items) | |
| Replacement Connectors | | | |
| A | N29384 | Weather Pak Connector - BLACK - 2 Pin Plug | |
| B | N29385 | Weather Pak Connector - BLACK - 2 Pin Socket | |

Pressure Control
JEM Pressure Control System - for Active Hydraulic Option



| Item | Part No. | Description | Qty |
|--------|----------|---|-----|
| 1 | N65145 | CC Pilot Display - 3 1/2 Full Color..... | 1 |
| 2 | N65146 | Ram Mount - 1 7/16 x 1 5/16..... | 1 |
| 3 | N65147 | Ram Short Arm | 1 |
| 4 | N65148 | Ram Ball - 1 Diameter..... | 1 |
| 5 | N65141 | Harness - Tractor (1000545) | 1 |
| 6 | N65142 | Harness - Implement (1000546) | 1 |
| 7 | N65149 | Harness - Extension (Tow Between Carts) (1000626) | 1 |
| 8 | N65143 | ESX-10Xp ECU..... | 1 |
| 9 | K62977 | Pressure Transducer..... | 1 |
| 10 | W-512 | Hex Nut - 1/4 | 2 |
| 11 | W-521 | Lockwasher - 1/4..... | 2 |
| 12 | C-1471 | Hex Bolt - 1/4 x 1 3/4 Lg..... | 2 |
| 13 | W-538 | Flatwasher - 7/16 ID x 1 OD x 14 GA..... | 4 |
| 14 | W-523 | Lockwasher - 3/8..... | 4 |
| 15 | W-475 | Hex Bolt - 3/8 x 1 Lg..... | 4 |
| N65140 | | CC Pilot Display Kit - (Includes Items 1 to 4) | |

Pressure Control Apollo System - for Active Hydraulic Option



Apollo System - for Active Hydraulic Option

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | S64940 | Manifold - Opener Control - 3000 psi (Requires S68007 see note below) | 1 |
| | S68006 | Manifold - Opener Control - 2000 psi (Includes S68007)..... | |
| 2 | K62977 | Pressure Transducer | 1 |
| 3 | N67045 | Harness - Pack Control (1026291-01) | 1 |
| 4 | N67046 | Harness - Lift Control (1006258-01) | 1 |
| 5 | N67037 | Harness - Triplex ECU Adapter (1005038-01)..... | 1 |
| 5A | N67038 | Harness - Single ECU (1005036-01)..... | 1 |
| 5B | N68000 | Harness Extension - 2m - (1028492-01) - Optional | |
| 6 | N68950 | Apollo Master Module ECU - CM-40 Series 2 - (1024223-01) | 1 |
| 7 | N59010 | Harness Extension - Work Switch - 5m - (AGA4468) | 2 |
| 8 | N64671 | Pressure Transducer Extension Harness - 7m - (1024230-01) | 1 |
| 9 | N68001 | AUX Lift Lower Signal Adapter | 1 |
| 10 | W-187 | Hex Bolt - 3/8 x 1 1/4 Lg - Bolts ECU to plate under manifold | 4 |
| 11 | D-5279 | Locknut - 3/8 Serrated Flange..... | 4 |
| | N67052 | Lift and Pressure Control Kit for 2-3 Tank Carts (Includes Items 3, 4, 7 and 8) | |
| | N67051 | Lift and Pressure Control Kit for 4 Tank Carts (Includes Items 3, 4, 5, 6, 7 and 8) | |
| | N67798 | Lift and Pressure Control Kit for 4 Tank Carts Tow Behind ONLY (Includes Items 3, 4, 5A, 6, 9, 10 and 11) | |
| | | Note: To operate the Apollo System , Manifold S64940 requires the S2 valve must be replaced with S68007 Valve Cartridge - TS12-36CM | |

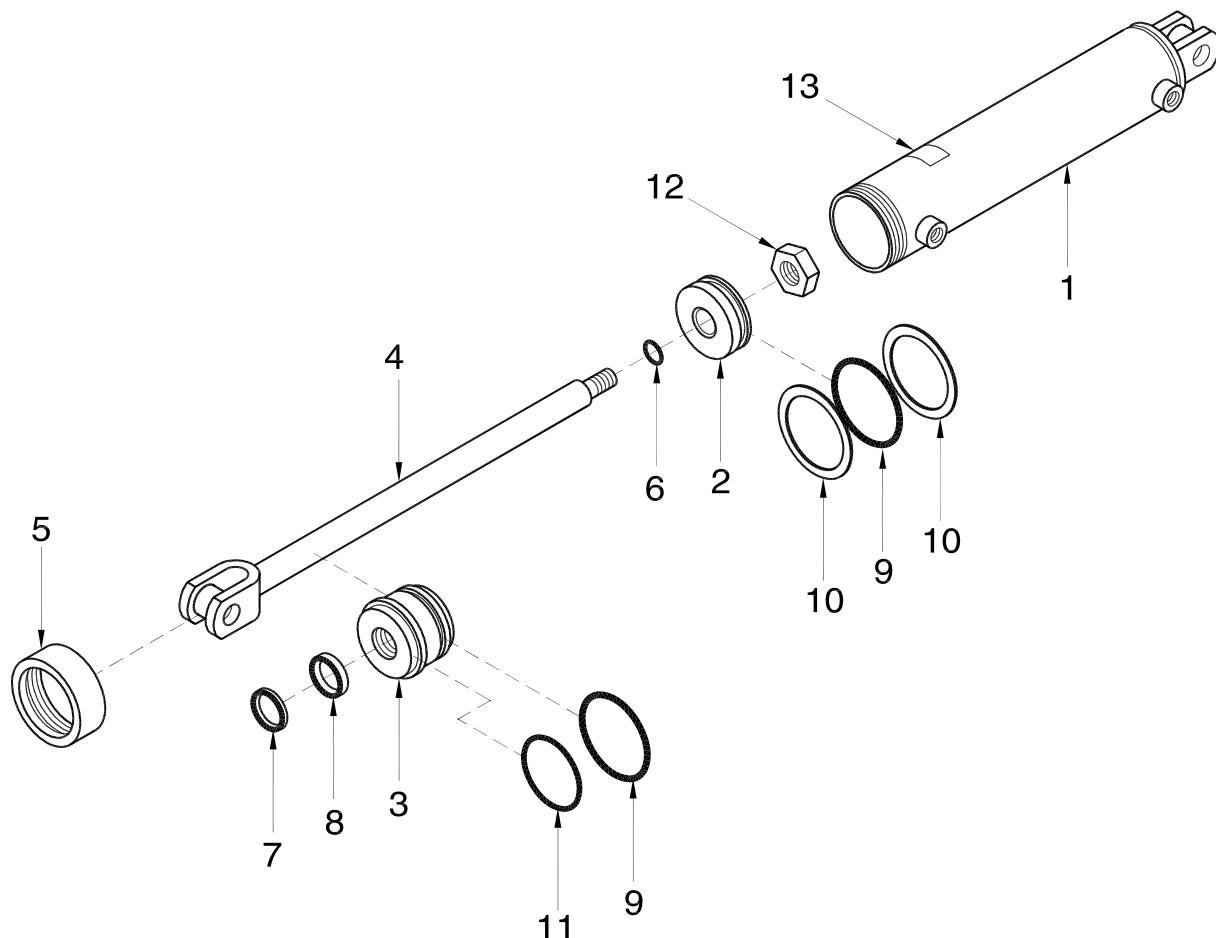
Notes

Section 5: Cylinders and Valves

Section Contents

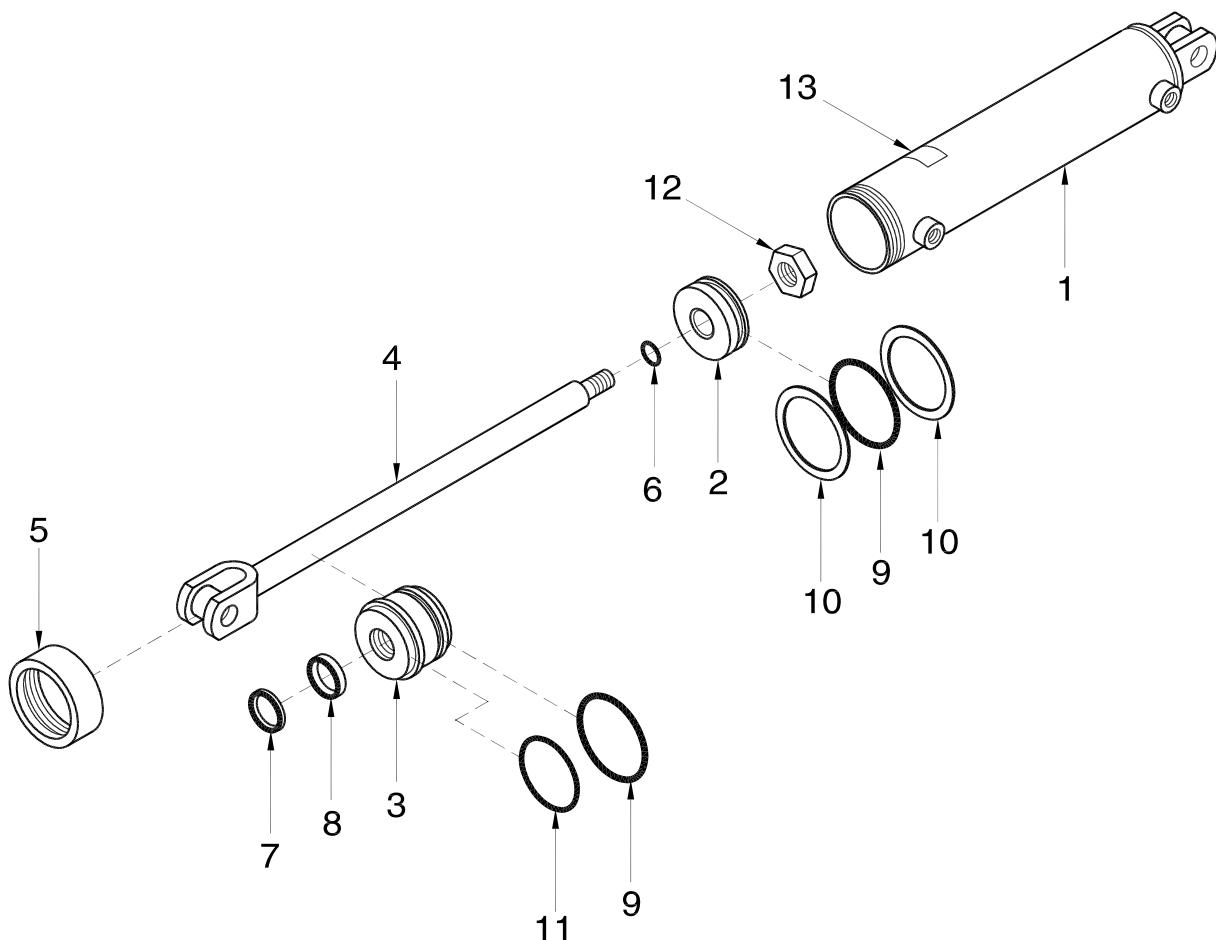
| | |
|---|------|
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| Opener Cylinder | 5-8 |
| Opener Valve Block - Passive Accumulator Hydraulics | 5-9 |
| Opener Valve Block - Active Hydraulics..... | 5-10 |
| Wing Lift Valve Block | 5-11 |

Hydraulic Cylinders Wing Lift



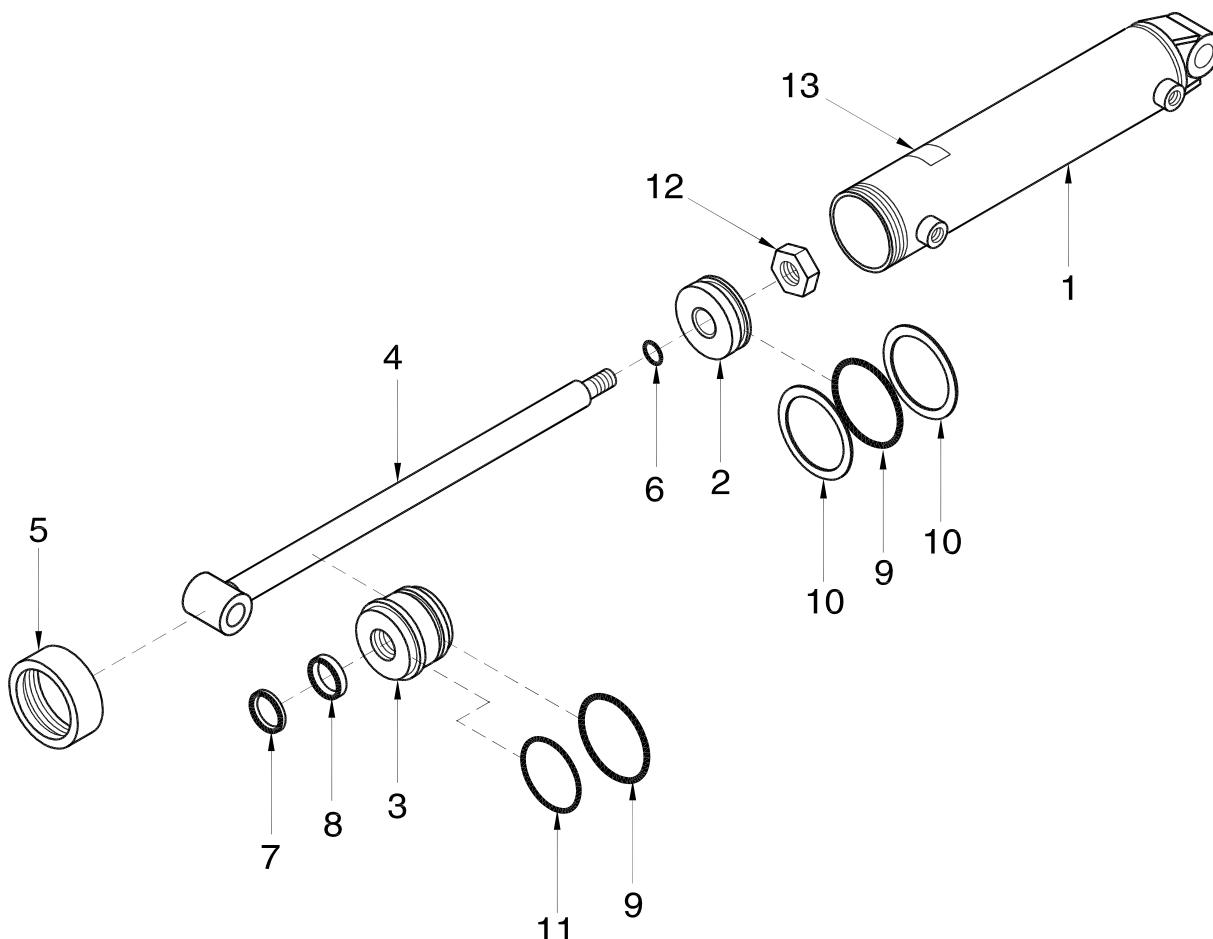
| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C26437 | Wing Lift Cylinder - C26436 - 4 x 18 | 1 |
| 2 | C16637 | Barrel - 4 x 18 ORB..... | 1 |
| 3 | C-2026 | Piston - 4 Dia - 7/8 Shaft..... | 1 |
| 4 | C32025 | Gland - 4 Dia - 1 1/4 Shaft | 1 |
| 5 | C-2023 | Cylinder Shaft - 1 1/4 Dia x 25 7/8 | 1 |
| 6 | C-2187 | Collar - 4 Cylinder | 1 |
| 7 | C-2007 | 1 OD x 1/16 C/S 90D BUNA O-Ring | 1 |
| 8 | C-2008 | 1 1/4 ID x 3/16 C/S 90D URTH Wiper | 1 |
| 9 | C-2030 | 1 1/4 ID x 5/16 C/S 90D URTH U-Cup..... | 1 |
| 10 | C15386 | 4 OD x 3/16 C/S 90D BUNA O-Ring | 2 |
| 11 | C-2215 | Backup Washer - 4 Dia - #342 | 2 |
| 12 | C-2017 | 3 7/8 OD x 1/16 C/S 70A BUNA-N O-Ring | 1 |
| 13 | C26846 | Locknut - 7/8 UNF Unitorque | 1 |
| | | Part # Plate for C26436..... | 1 |
| | C26436 | Cylinder Assembly (Includes All Above Items) | |
| | C20449 | Seal Kit (Includes Items #6, 7, 8, 9, 10 & 11) | |

Hydraulic Cylinders Wing Lift



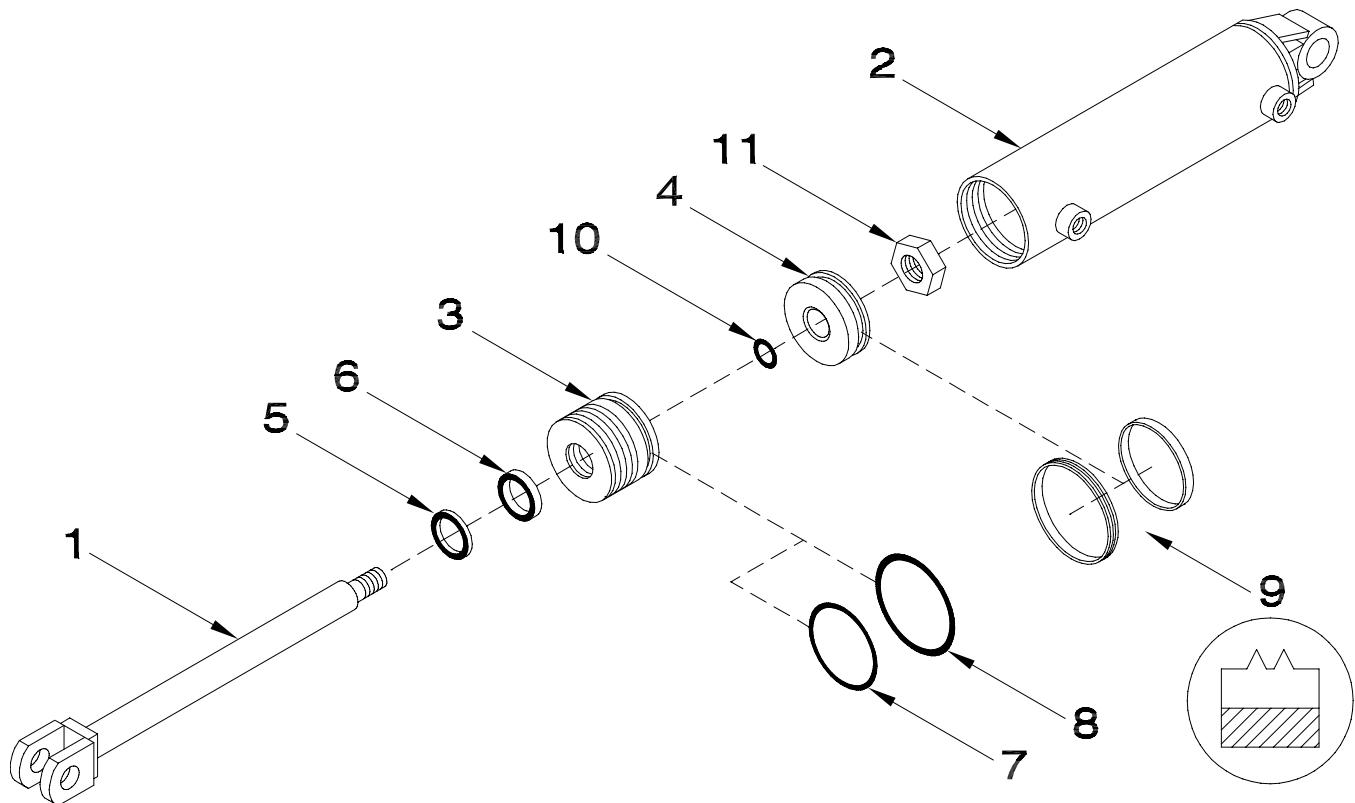
| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C34441 | Wing Lift Cylinder - C34442 - 4 1/2 x 30 | 1 |
| 2 | C12836 | Barrel - 4 1/2 x 30 - 1 1/4 clevis hole..... | 1 |
| 3 | C-2154 | Piston - 4 1/2 Dia - 1 Shaft..... | 1 |
| 4 | C26190 | Gland - 4 1/2 Dia - 1 3/4 Shaft | 1 |
| 5 | C-2155 | Cylinder Shaft - 1 3/4 Dia | 1 |
| 6 | C13282 | Collar - 4 1/2 Cylinder | 1 |
| 7 | C-2136 | 1 1/8 OD x 1/16 C/S 90D BUNA O-Ring..... | 1 |
| 8 | C-2135 | 1 3/4 ID x 3/16 C/S 90D URTH Wiper | 1 |
| 9 | C-2164 | 4 1/2 OD x 3/16 C/S 90D BUNA O-Ring | 2 |
| 10 | C15387 | Backup Washer - 4 1/2 Dia - #346 | 2 |
| 11 | C-2215 | 3 7/8 OD x 1/16 C/S 70A BUNA-N O-Ring | 1 |
| 12 | C13763 | Locknut - 1-14 UNS Unitorque | 1 |
| 13 | C36064 | Part # Plate for C34442..... | 1 |
| | C34442 | Cylinder Assembly (Includes All Above Items) | |
| | C12849 | Seal Kit (Includes Items #6, 7, 8, 9, 10 & 11) | |

Hydraulic Cylinders Wing Lift



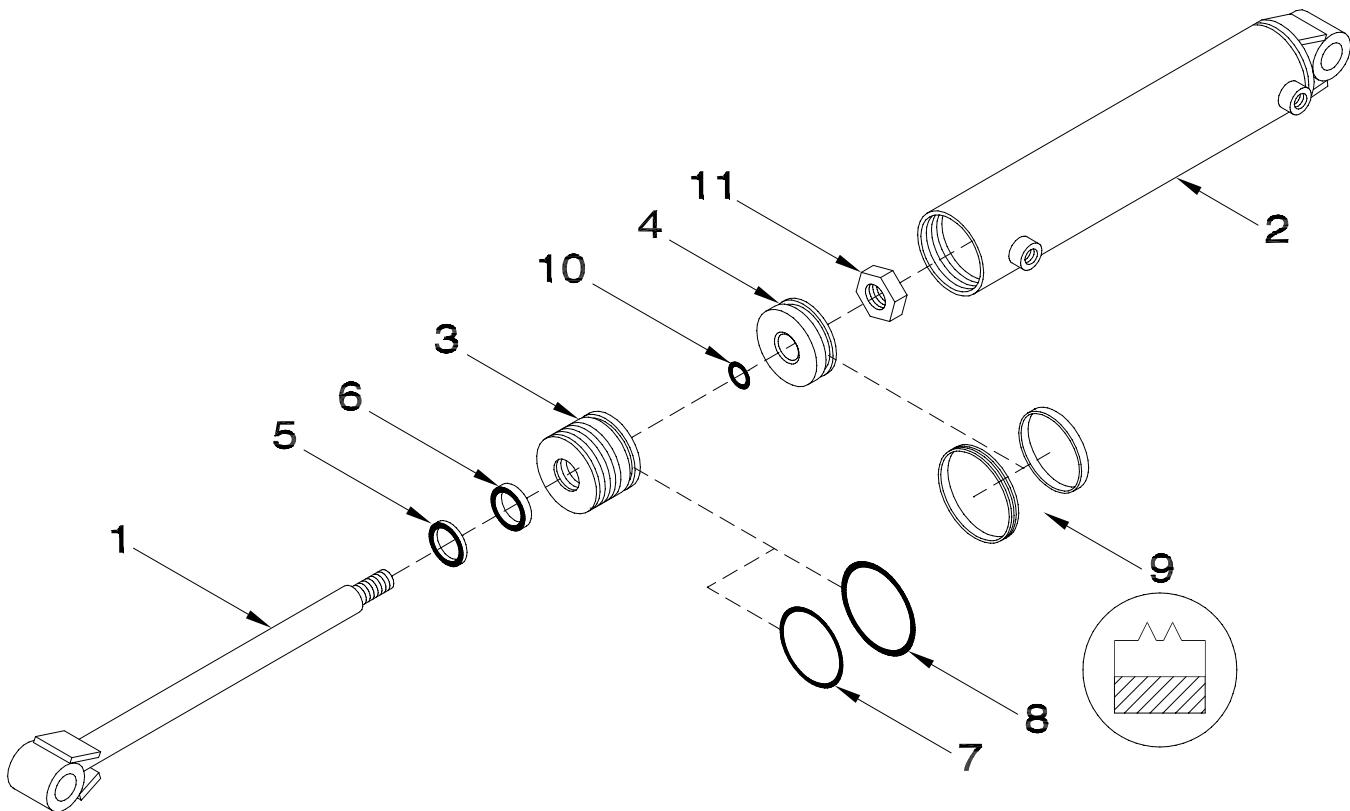
| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | C39027 | Wing Lift Cylinder - C39030 - 4 1/2 x 36 | 1 |
| 2 | C12836 | Barrel - 4 1/2 x 36 - 1 1/4 clevis hole..... | 1 |
| 3 | C-2154 | Piston - 4 1/2 Dia - 1 Shaft..... | 1 |
| 4 | C39029 | Gland - 4 1/2 Dia - 1 3/4 Shaft | 1 |
| 5 | C-2155 | Cylinder Shaft - 1 3/4 Dia | 1 |
| 6 | C13282 | Collar - 4 1/2 Cylinder | 1 |
| 7 | C-2136 | 1 1/8 OD x 1/16 C/S 90D BUNA O-Ring..... | 1 |
| 8 | C-2135 | 1 3/4 ID x 3/16 C/S 90D URTH Wiper..... | 1 |
| 9 | C-2164 | 1 3/4 ID x 3/8 C/S 90D URTH U-Cup..... | 1 |
| 10 | C15387 | 4 1/2 OD x 3/16 C/S 90D BUNA O-Ring..... | 2 |
| 11 | C-2215 | Backup Washer - 4 1/2 Dia - #346 | 2 |
| 12 | C-2175 | 3 7/8 OD x 1/16 C/S 70A BUNA-N O-Ring | 1 |
| 13 | C13763 | Locknut - 1-14 UNS Unitorque | 1 |
| | C39031 | Part # Plate for C39030..... | 1 |
| | C39030 | Cylinder Assembly (Includes All Above Items) | |
| | C12849 | Seal Kit (Includes Items #6, 7, 8, 9, 10 & 11) | |

Hydraulic Cylinders Wing Lift



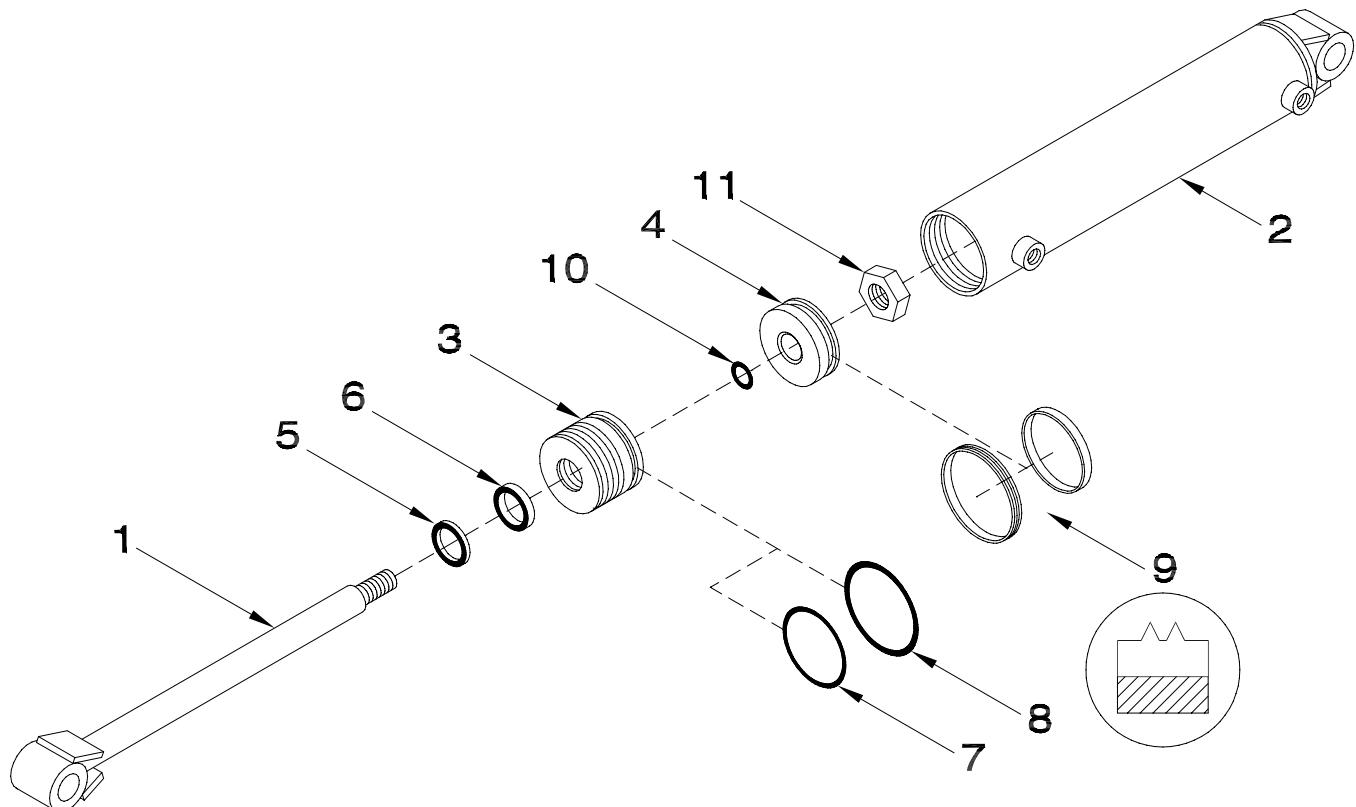
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| | | Wing Lift Cylinder - C47594 - 5 x 30 | |
| 1 | C50179 | Cylinder Shaft..... | 1 |
| 2 | C45675 | Barrel - 5 x 30 ORB..... | 1 |
| 3 | C39916 | Gland - 5 Dia..... | 1 |
| 4 | C39913 | Piston - 5 Dia | 1 |
| 5 | C34598 | Wiper..... | 1 |
| 6 | C34599 | Shaft Seal..... | 1 |
| 7 | C39904 | Backup Ring..... | 1 |
| 8 | C39900 | Gland Seal (O-Ring) | 1 |
| 9 | C39892 | Piston Seal - (PSP-A) (2 part seal) | 1 |
| 10 | C34592 | Shaft Seal..... | 1 |
| 11 | C34596 | Locknut | 1 |
| | C47594 | Cylinder Assembly (Includes All Above Items) | |
| | C39906 | Seal Kit (Includes Items #5, 6, 7, 8, 9 & 10) | |

Hydraulic Cylinders Wing Lift



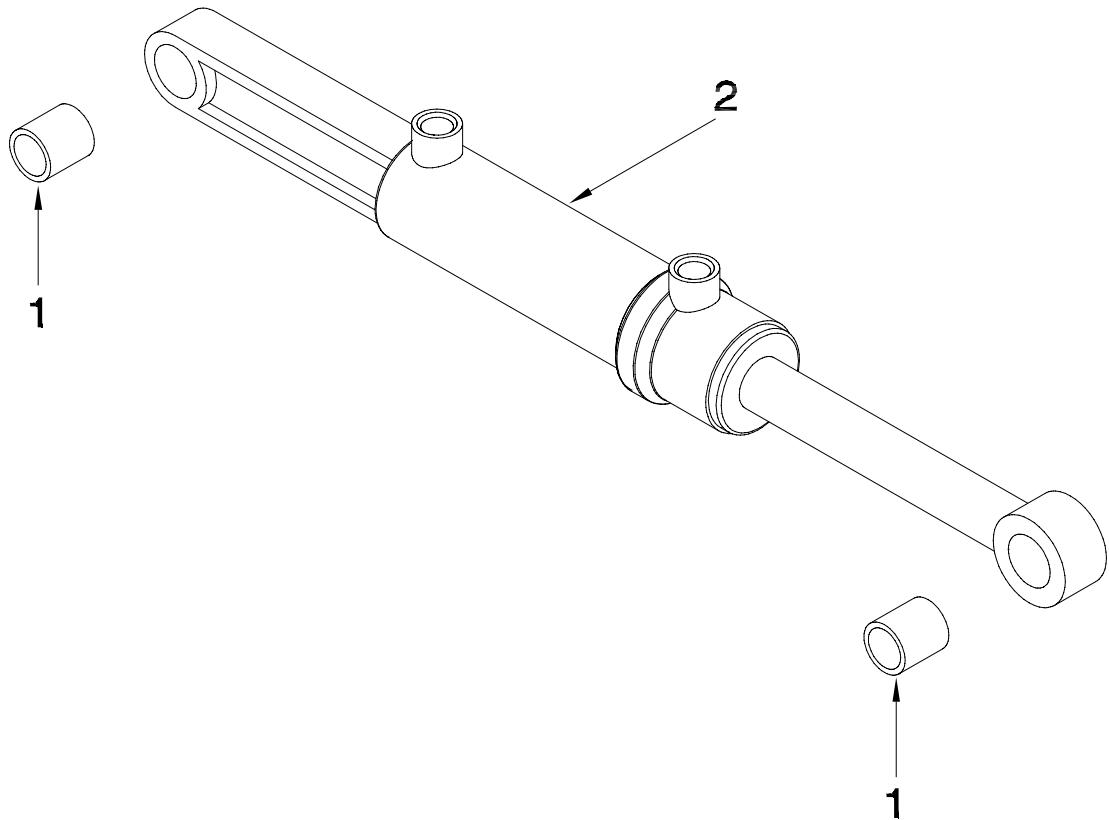
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | C39910 | Wing Lift Cylinder - C39490 - 5 x 36 | 1 |
| 2 | C39919 | Cylinder Shaft..... | 1 |
| 3 | C39916 | Barrel - 5 x 36 ORB..... | 1 |
| 4 | C39913 | Gland - 5 Dia..... | 1 |
| 5 | C34598 | Piston - 5 Dia | 1 |
| 6 | C34599 | O-Ring..... | 1 |
| 7 | C39904 | Shaft Seal..... | 1 |
| 8 | C39900 | Backup Ring..... | 1 |
| 9 | C39892 | Gland Seal (O-Ring) | 1 |
| 10 | C34592 | Piston Seal - (PSP-A) (2 part seal) | 1 |
| 11 | C34596 | Shaft Seal..... | 1 |
| | C34596 | Locknut | 1 |
| | C39490 | Cylinder Assembly (Includes All Above Items) | |
| | C39906 | Seal Kit (Includes Items #5, 6, 7, 8, 9 & 10) | |

Hydraulic Cylinders Wing Lift



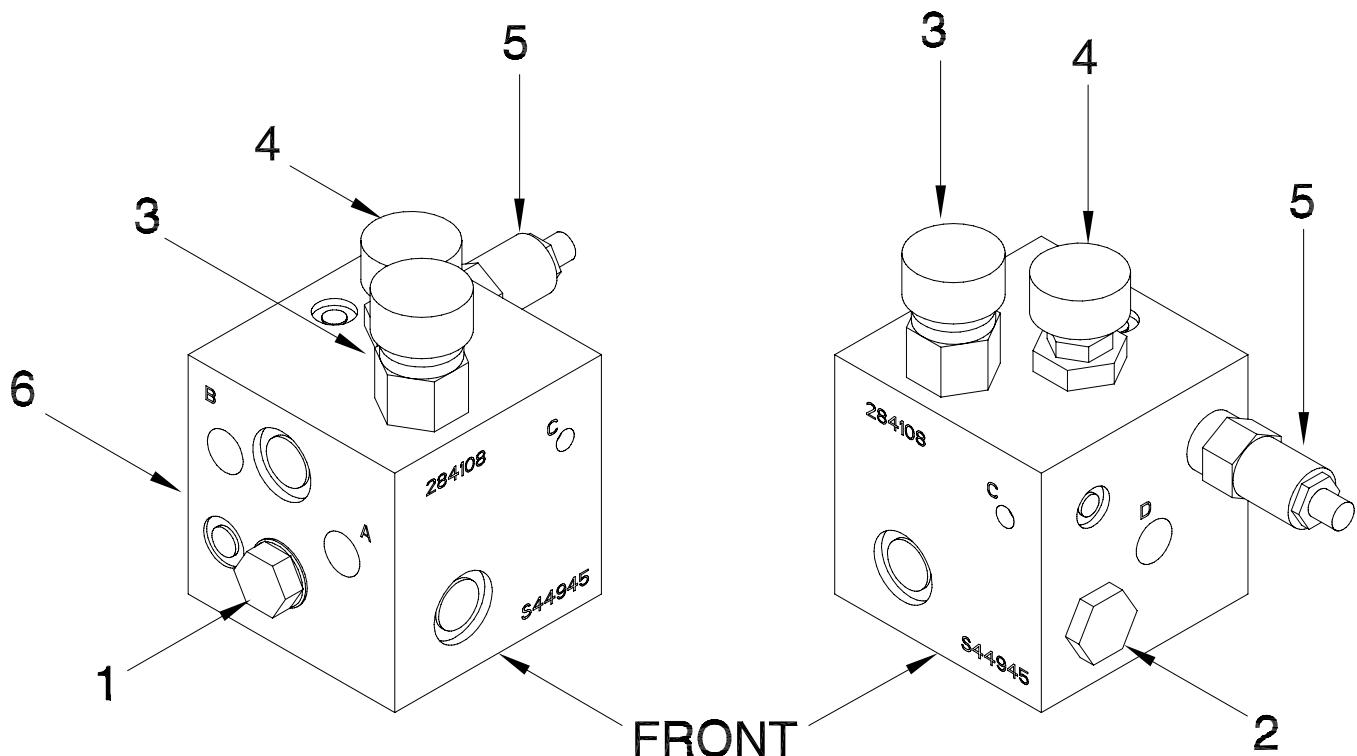
| Item | Part No. | Description | Qty |
|---------------|----------|---|-----|
| 1 | | Wing Lift Cylinder - C53250 - 5 1/2 x 36 | |
| 2 | | Cylinder Shaft - 2 Dia x 36 | 1 |
| 3 | | Barrel - 5 1/2 x 36 ORB | 1 |
| 4 | | Gland - 5 1/2 Dia..... | 1 |
| 5 | | Piston - 5 1/2 Dia | 1 |
| 6 | | Wiper..... | 1 |
| 7 | | Shaft Seal..... | 1 |
| 8 | | Backup Ring..... | 1 |
| 9 | | Gland Seal (O-Ring) | 1 |
| 10 | | Piston Seal - (PSP-A) (2 part seal) | 1 |
| 11 | | Shaft Seal..... | 1 |
| | | Locknut | 1 |
| C53250 | | Cylinder Assembly - 5 1/2 x 36 | |
| C55803 | | Seal Kit (Includes Items #5, 6, 7, 8, 9 & 10) | |

Hydraulic Cylinders Opener Cylinder



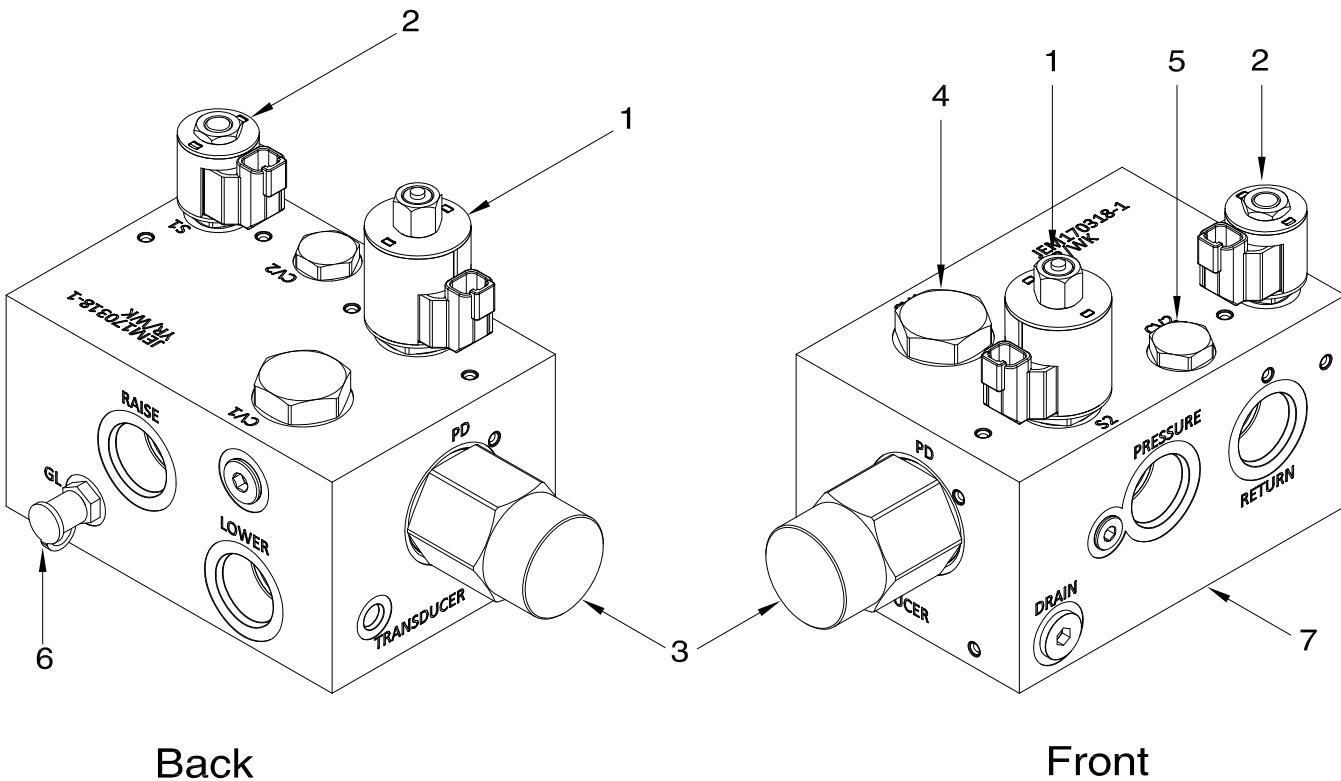
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S51494 | Cylinder - C51153 - 1 3/4 x 4 - retracted length 16.13" | 2 |
| 2 | C51153 | Bushing - 3/4 ID x 1 OD x 1 Lg | 1 |
| | C68517 | Cylinder Assembly (Includes All Above Items) | |
| | | Seal Kit | |

Hydraulic Cylinders
Opener Valve Block - Passive Accumulator Hydraulics



| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | S47139 | Check Valve Cartridge - Pilot Operated..... | 1 |
| 2 | S47140 | Check Valve Cartridge - Poppet | 1 |
| 3 | S47141 | Check Valve Cartridge - Reducing/Relieving Valve..... | 1 |
| 4 | S47142 | Cartridge Valve - Needle Valve | 1 |
| 5 | S47143 | Cartridge - Pilot Operated - Accumulator Lock Out Valve..... | 1 |
| 6 | S44945 | Hydraulic Down Pressure Manifold (Includes All Above Items) | |

**Hydraulic Cylinders
Opener Valve Block - Active Hydraulics**

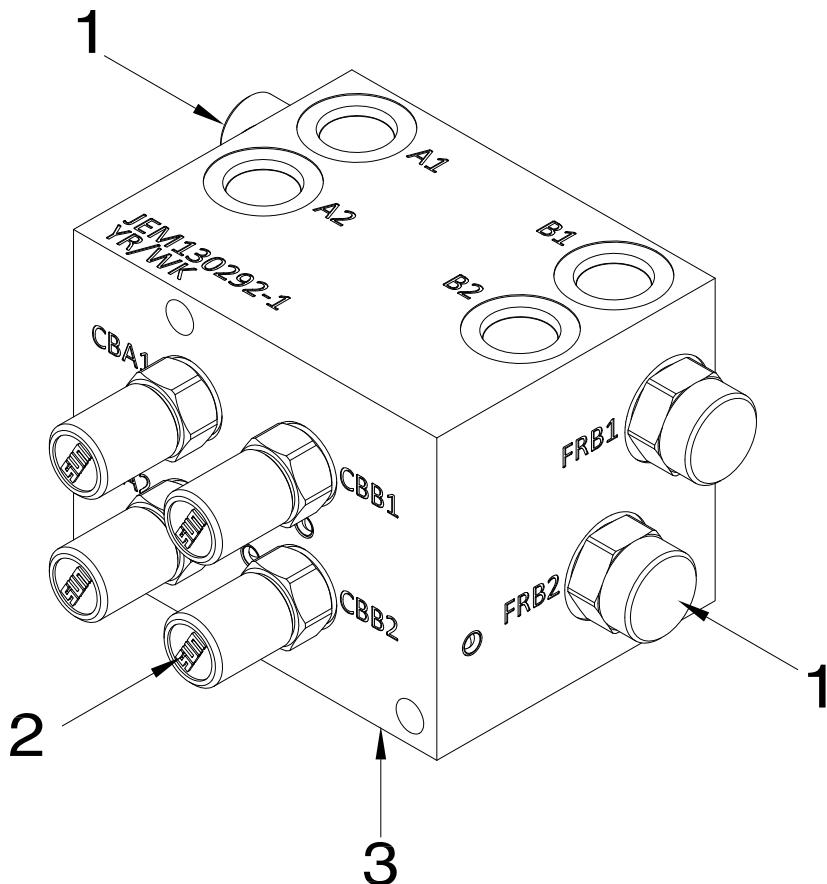


Back

Front

| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S68008 | Pressure Reducing/Relieving Proportional Valve - 2000 psi | 1 |
| 2 | S67317 | Solenoid Valve..... | 1 |
| 3 | S67318 | Pilot 4-Way. Valve | 1 |
| 4 | S67319 | Check Valve - 5 psi..... | 1 |
| 5 | S67320 | Check Valve - 2 psi..... | 1 |
| 6 | N64583 | Coupler - Test Port - 7/16-20 (#4) MORB | 1 |
| 7 | S68006 | Manifold - Opener Control - 2000 psi (Includes above Items) | 1 |

Hydraulic Cylinders Wing Lift Valve Block



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | C53847 | Pressure Compensated Flow Control Cartridge - 5 gpm..... | 4 |
| 2 | C53848 | Counterbalance Cartridge - 2700 psi | 4 |
| 3 | C53849 | Counterbalance Winglift Manifold (Includes All Above Items) | |

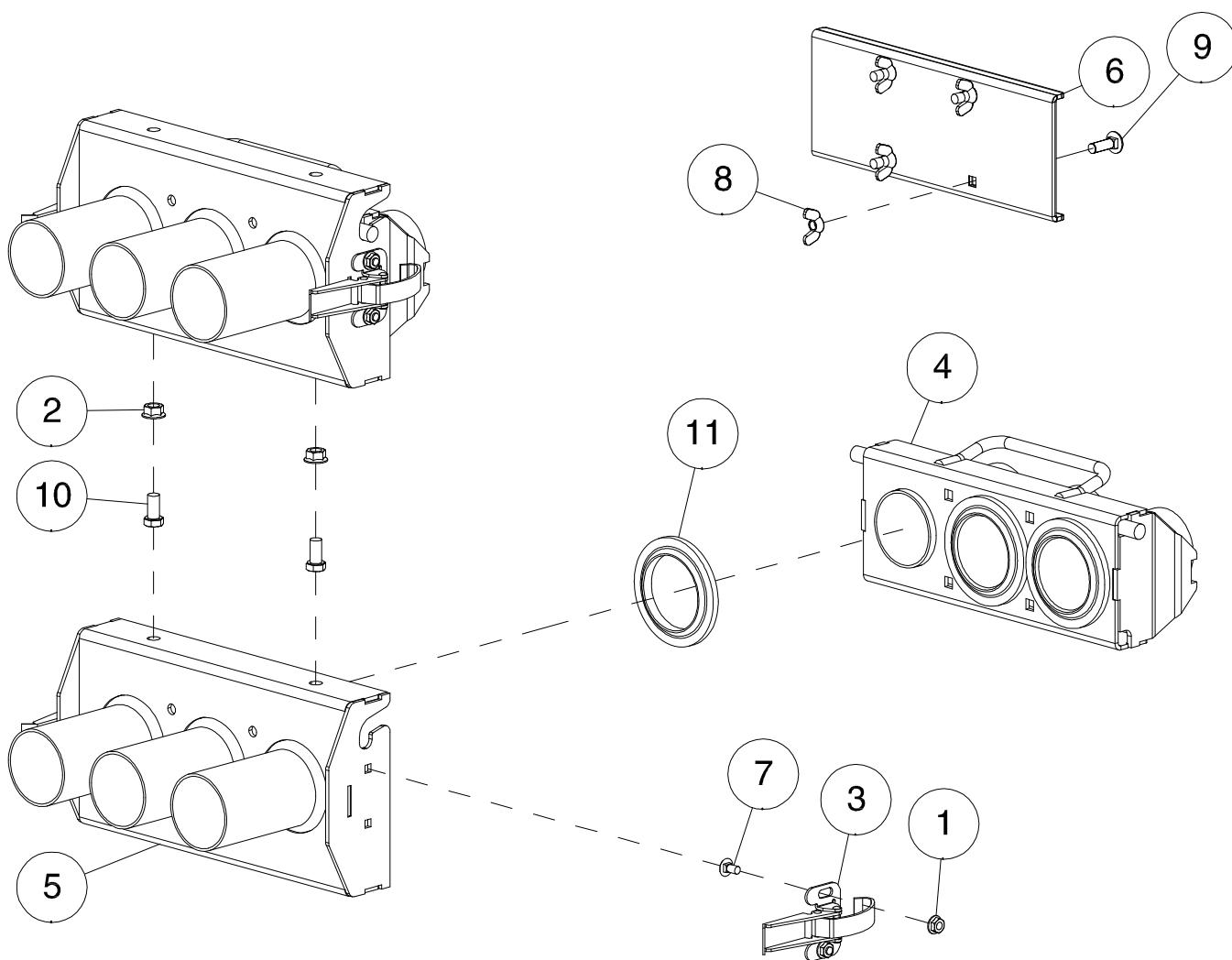
Notes

Section 6: Distribution

Section Contents

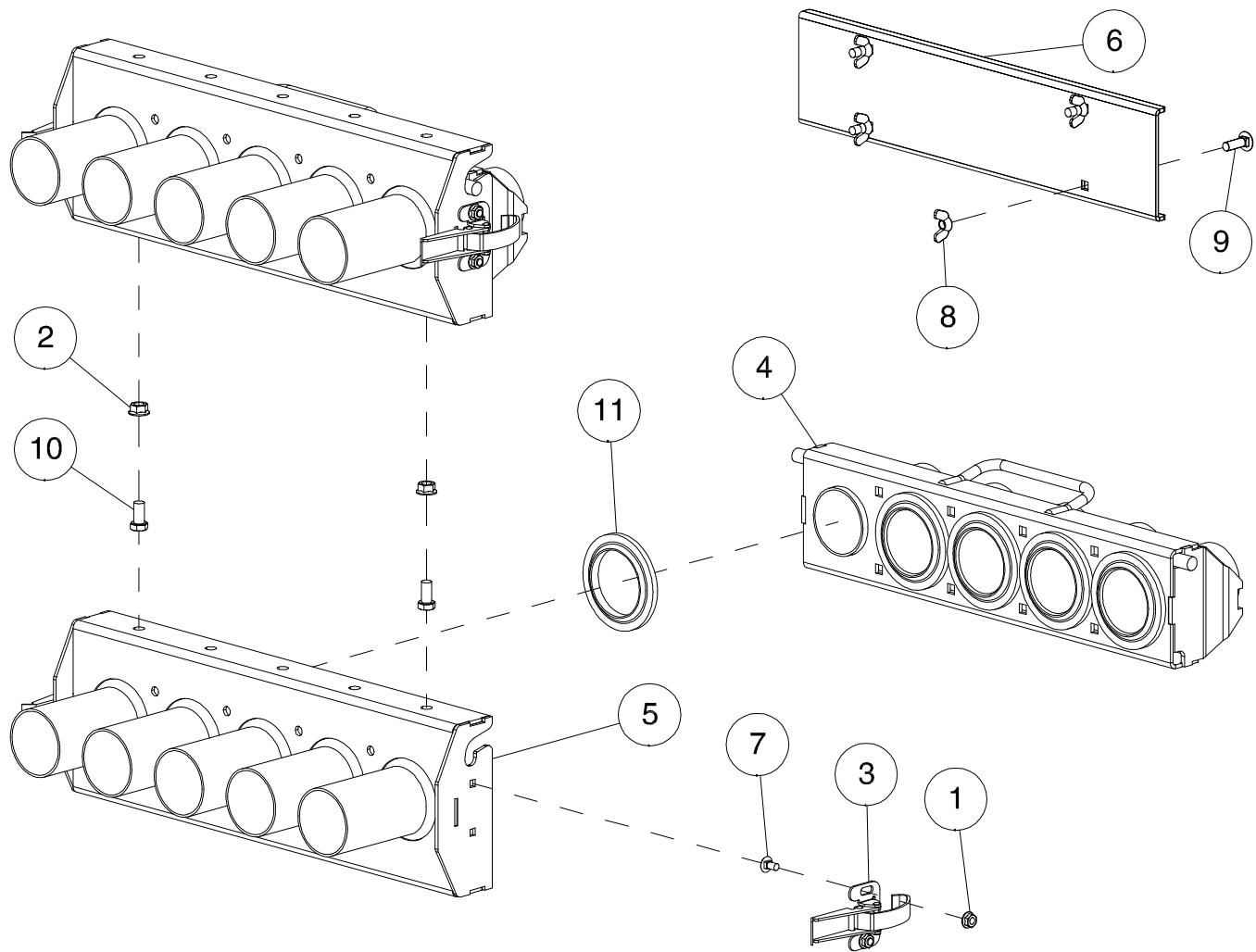
| | |
|---|-----|
| Quick Coupler - 3 Outlet..... | 6-2 |
| Quick Coupler -5 Outlet..... | 6-3 |
| Single Shoot Tow Behind - 40, 50 & 60 ft | 6-4 |
| Single Shoot Tow Between - 40, 50 & 60 ft | 6-6 |

**Distribution
Quick Coupler - 3 Outlet**



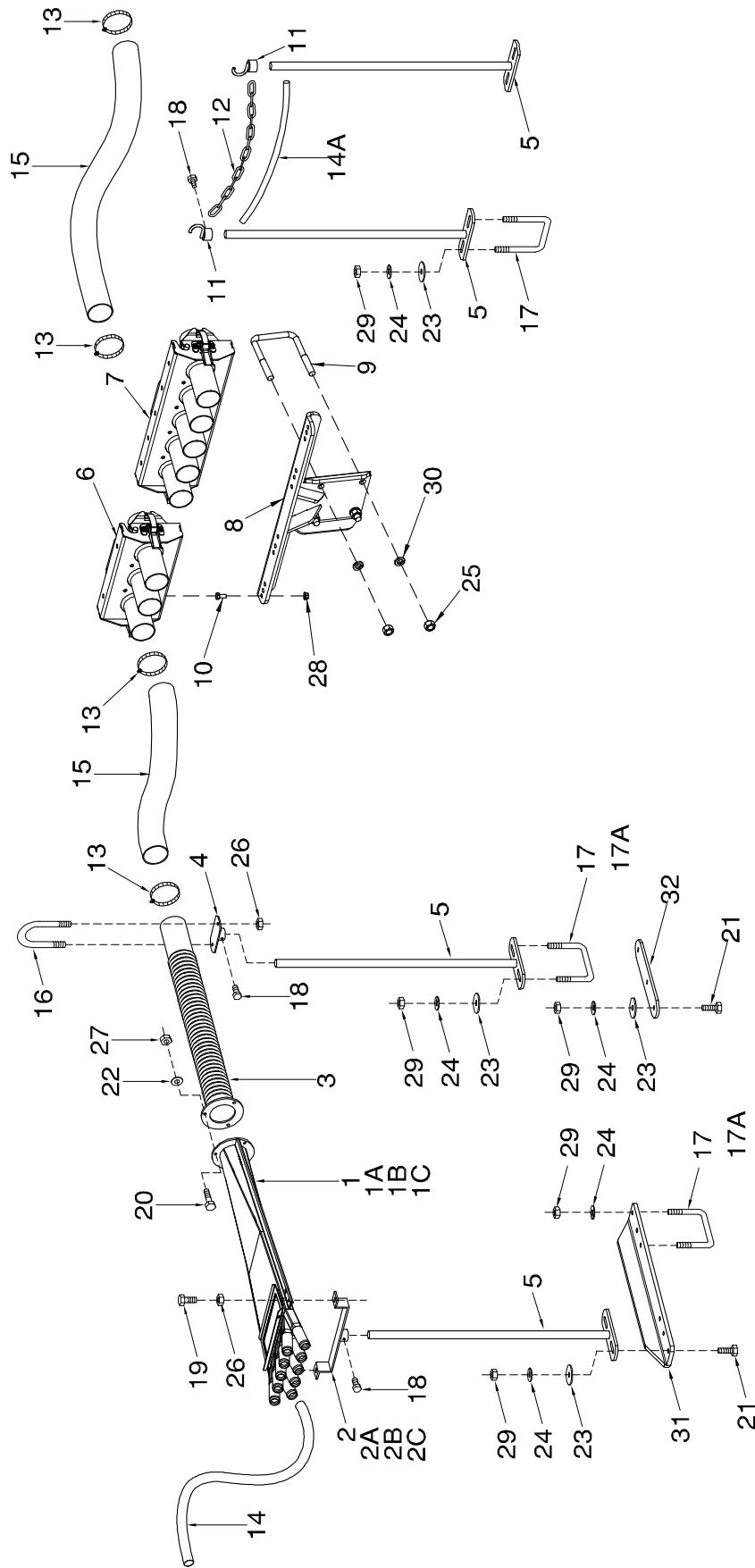
| Item | Part No. | Description | Qty |
|------|----------|--|--------|
| 1 | D-5277 | Flange Lock Nut - 1/4 Unc Serrated..... | 8 |
| 2 | D-5279 | Flange Lock Nut - 3/8 Unc Serrated..... | 2 |
| 3 | N42213 | Latch | 4 |
| 4 | N51983 | Quick Coupler - 3 Run - Cart - Contains Item 11..... | 2 |
| 5 | N53200 | Quick Coupler - 3 Run - Drill | 2 |
| 6 | N53207 | Cover Plate - 3 Run..... | 2 |
| 7 | N53215 | Carriage Bolt - 1/4 x 1/2 Lg | 8 |
| 8 | S-747 | Wing Nut - 5/16 | 8 |
| 9 | S33420 | Carriage Bolt - 5/16 x 1 Lg | 8 |
| 10 | W-867 | Hex Bolt - 3/8 x 3/4 Lg..... | 2 |
| 11 | N40735 | Washer Seal..... | 6 |
| | N16170 | Clear Silicon 305ml - used to assemble 11 to 4 | As Req |

**Distribution
Quick Coupler -5 Outlet**



| Item | Part No. | Description | Qty |
|------|----------|--|--------|
| 1 | D-5277 | Flange Lock Nut - 1/4 Unc Serrated..... | 8 |
| 2 | D-5279 | Flange Lock Nut - 3/8 Unc Serrated..... | 2 |
| 3 | N42213 | Latch | 4 |
| 4 | N51955 | Quick Coupler - 5 Run - Cart - Contains Item 11..... | 2 |
| 5 | N51960 | Quick Coupler - 5 Run - Drill | 2 |
| 6 | N53209 | Cover Plate - 5 Run..... | 2 |
| 7 | N53215 | Carriage Bolt - 1/4 x 1/2 Lg | 8 |
| 8 | S-747 | Wing Nut - 5/16 | 8 |
| 9 | S33420 | Carriage Bolt - 5/16 x 1 Lg | 8 |
| 10 | W-867 | Hex Bolt - 3/8 x 3/4 Lg..... | 2 |
| 11 | N40735 | Washer Seal..... | 6 |
| | N16170 | Clear Silicon 305ml - used to assemble 11 to 4 | As Req |

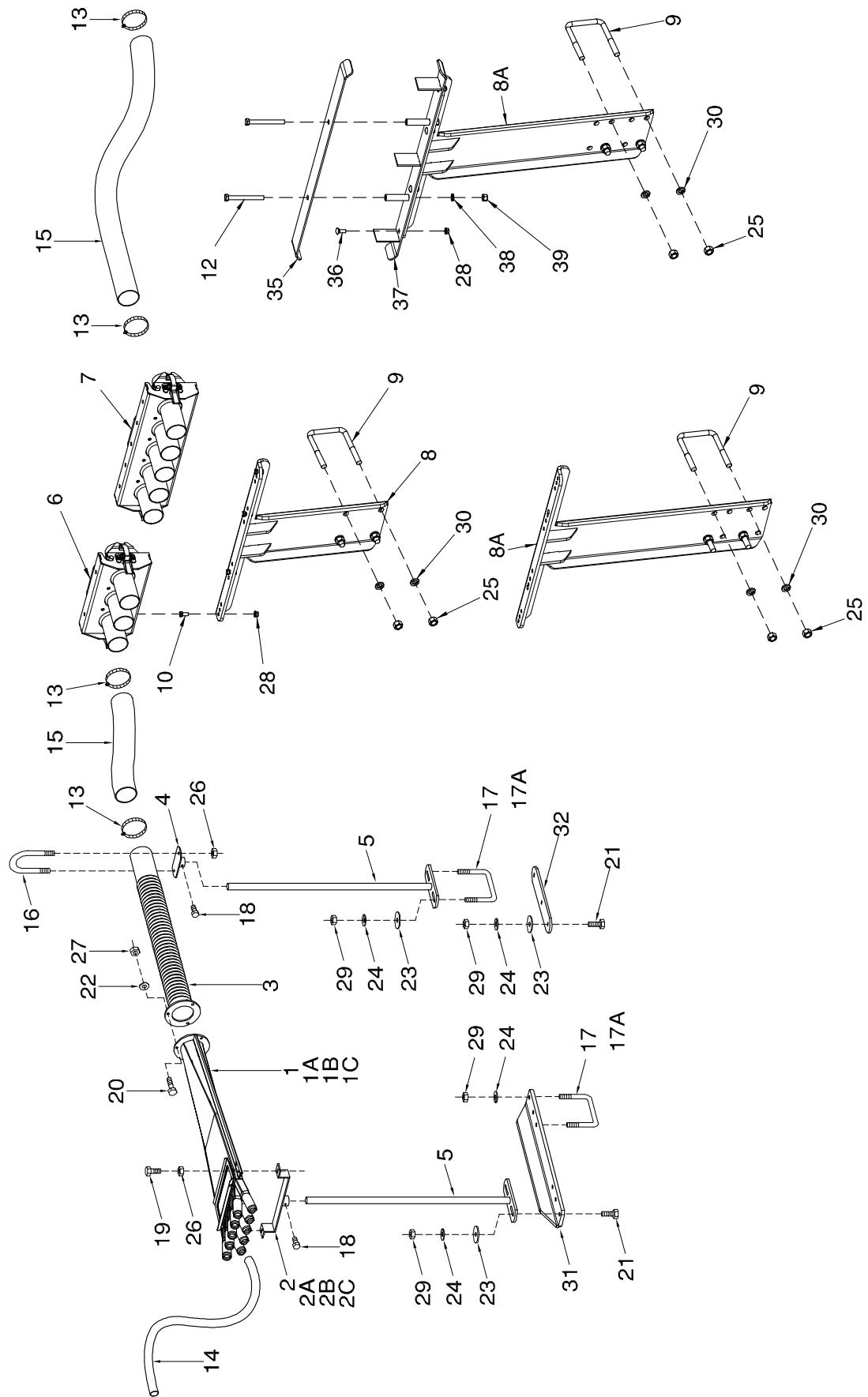
Distribution
Single Shoot Tow Behind - 40, 50 & 60 ft



Distribution - Single Shoot Tow Behind - 40, 50 & 60 ft

| Item | Part No. | Description | No: Used | | | | | | | | |
|------|----------|---|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 40ft | | | 50ft | | | 60ft | | |
| | | | 7.5 | 10 | 15 | 7.5 | 10 | 15 | 7.5 | 10 | 15 |
| 1 | N42274 | Divider Assembly - 11 Outlet | - | - | - | - | - | - | 5 | - | - |
| 1A | N31190 | Divider Assembly - 10 Outlet..... | - | - | - | - | - | - | 4 | - | - |
| 1B | N31189 | Divider Assembly - 9 Outlet | - | - | - | 7 | - | - | - | - | - |
| 1C | N31188 | Divider Assembly - 8 Outlet | 7 | 5 | 4 | 2 | 3 | 5 | - | 8 | 6 |
| 1D | N31187 | Divider Assembly - 7 Outlet | 1 | 1 | - | - | 5 | - | - | 1 | - |
| 2 | N40544 | Support - 11 Outlet..... | - | - | - | - | - | - | 5 | - | - |
| 2A | N19406 | Support - 10 Outlet..... | - | - | - | - | - | - | 4 | - | - |
| 2B | N15595 | Support - 9 Outlet | - | - | - | 7 | - | - | - | - | - |
| 2C | N15107 | Support - 8 Outlet | 7 | 5 | 4 | 2 | 3 | 5 | - | 8 | 6 |
| 2D | N15594 | Support - 7 Outlet | 1 | 1 | - | - | 5 | - | - | 1 | - |
| 3 | N15135 | Pipe - Corr Diff - Divider Head | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 4 | N15102 | Support - Rear | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 5 | N19531 | Support - Bottom - Rod 24" | 16 | 12 | 8 | 18 | 16 | 10 | 18 | 18 | 12 |
| 6 | ***** | Quick Coupler 3 Run (Refer Pg 6-2)..... | - | 2 | - | - | - | - | - | - | 2 |
| 7 | ***** | Quick Coupler 5 Run (Refer Pg 6-3)..... | 2 | - | 1 | 2 | 2 | 1 | 2 | 2 | - |
| 8 | N53203 | Coupler Tower - Behind..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | C-219 | U-Bolt - 5/8 x 4 x 5 9/16 Lg | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 10 | W-867 | Hex Bolt - 3/8 x 3/4 Lg | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 4 |
| 11 | N19717 | Hook - Chain..... | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 12 | N19448 | Chain - 80 Link..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | N11905 | Hose Clamp - 2 1/2..... | 28 | 24 | 16 | 32 | 28 | 20 | 36 | 36 | 24 |
| 14 | R480034 | Hose - .929 ID x 1.169 OD/ft (75 ft roll) | 525 | 450 | 300 | 675 | 600 | 375 | 675 | 675 | 450 |
| 14A | R480034 | Hose - .929 ID x 1.169 OD/ft (75 ft roll) | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft | 1.5 ft |
| 15 | R480055 | Hose - 2 1/2 ID/ft (100 ft rolls) | 125 | 100 | 75 | 175 | 175 | 75 | 175 | 175 | 125 |
| 16 | N15096 | U-Bolt - 1/4 x 2.5 x 3 1/4 Lg | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 17 | N19723 | U-Bolt - 3/8 x 4 x 7 Lg | 14 | 12 | 8 | 12 | 12 | 4 | 10 | 14 | 6 |
| 17A | N34423 | U-Bolt - 3/8 x 2 x 7 Lg | 2 | 2 | 2 | 4 | 4 | 6 | 4 | 6 | 6 |
| 18 | N24396 | Setscrew - 1/4 x 1/2 Lg | 18 | 14 | 10 | 20 | 18 | 12 | 20 | 20 | 14 |
| 19 | K-3830 | Hex Bolt - 1/4 x 1/2 Lg | 16 | 12 | 8 | 18 | 16 | 10 | 18 | 18 | 12 |
| 20 | W-469 | Hex Bolt - 1/4 x 3/4 Lg | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 21 | W-187 | Hex Bolt - 3/8 x 1 1/4 Lg | 12 | 10 | 2 | ? | ? | ? | ? | 8 | 2 |
| 22 | W-521 | Lockwasher - 1/4 | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 23 | D-5579 | Flatwasher - 3/8..... | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 24 | W-523 | Lockwasher - 3/8 | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 25 | W-517 | Hex Nut - 5/8..... | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 26 | D-5277 | Serrated Locknut - 1/4 | 32 | 24 | 16 | 36 | 32 | 20 | 36 | 36 | 24 |
| 27 | W-512 | Hex Nut - 1/4..... | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 28 | D-5279 | Serrated Locknut - 3/8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 29 | W-514 | Hex Nut - 3/8..... | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 30 | W-526 | Lockwasher - 5/8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 31 | S44308 | Extension Bracket - Head Support..... | 10 | 5 | 1 | 10 | 7 | 4 | 8 | 6 | 1 |
| 32 | S44467 | Head Support Plate | - | - | - | - | - | - | - | - | - |

Distribution
Single Shoot Tow Between - 40, 50 & 60 ft



Distribution - Single Shoot Tow Between - 40, 50 & 60 ft

| Item | Part No. | Description | No: Used | | | | | | | | |
|------|----------|---|----------|-----|-----|------|-----|-----|------|-----|-----|
| | | | 40ft | | | 50ft | | | 60ft | | |
| | | | 7.5 | 10 | 15 | 7.5 | 10 | 15 | 7.5 | 10 | 15 |
| 1 | N42274 | Divider Assembly - 11 Outlet | - | - | - | - | - | - | 5 | - | - |
| 1A | N31190 | Divider Assembly - 10 Outlet..... | - | - | - | - | - | - | 4 | - | - |
| 1B | N31189 | Divider Assembly - 9 Outlet | - | - | - | 7 | - | - | - | - | - |
| 1C | N31188 | Divider Assembly - 8 Outlet | 7 | 5 | 4 | 2 | 3 | 5 | - | 8 | 6 |
| 1D | N31187 | Divider Assembly - 7 Outlet | 1 | 1 | - | - | 5 | - | - | 1 | - |
| 2 | N40544 | Support - 11 Outlet..... | - | - | - | - | - | - | 5 | - | - |
| 2A | N19406 | Support - 10 Outlet..... | - | - | - | - | - | - | 4 | - | - |
| 2B | N15595 | Support - 9 Outlet | - | - | - | 7 | - | - | - | - | - |
| 2C | N15107 | Support - 8 Outlet | 7 | 5 | 4 | 2 | 3 | 5 | - | 8 | 6 |
| 2D | N15594 | Support - 7 Outlet | 1 | 1 | - | - | 5 | - | - | 1 | - |
| 3 | N15135 | Pipe - Corr Diff - Divider Head | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 4 | N15102 | Support - Rear | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 5 | N19531 | Support - Bottom - Rod 24" | 16 | 12 | 8 | 18 | 16 | 10 | 18 | 18 | 12 |
| 6 | ***** | Quick Coupler 3 Run (Refer Pg 6-2)..... | - | 2 | - | - | - | - | - | - | 2 |
| 7 | ***** | Quick Coupler 5 Run (Refer Pg 6-3)..... | 2 | - | 1 | 2 | 2 | 1 | 2 | 2 | - |
| 8 | N51962 | Coupler Tower - Short - 5 Frame | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 8A | N51967 | Coupler Tower - Tall | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | C-219 | U-Bolt - 5/8 x 4 x 5 9/16 Lg | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
| 10 | W-867 | Hex Bolt - 3/8 x 3/4 Lg | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 4 |
| 12 | C-3684 | Hex Bolt - 1/2 x 4 1/2 Lg | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 13 | N11905 | Hose Clamp - 2 1/2..... | 28 | 24 | 16 | 32 | 28 | 20 | 36 | 36 | 24 |
| 14 | R480034 | Hose - .929 ID x 1.169 OD/ft (75 ft roll) | 525 | 450 | 300 | 675 | 600 | 375 | 675 | 675 | 450 |
| 15 | R480055 | Hose - 2 1/2 ID/ft (100 ft rolls) | 175 | 125 | 75 | 275 | 225 | 150 | 250 | 225 | 175 |
| 16 | N15096 | U-Bolt - 1/4 x 2.5 x 3 1/4 Lg | 8 | 6 | 4 | 9 | 8 | 5 | 9 | 9 | 6 |
| 17 | N19723 | U-Bolt - 3/8 x 4 x 7 Lg | 12 | 10 | 6 | 14 | 12 | 4 | 10 | 12 | 4 |
| 17A | N34423 | U-Bolt - 3/8 x 2 x 7 Lg | 2 | 2 | 2 | 4 | 4 | 6 | 4 | 6 | 6 |
| 18 | N24396 | Setscrew - 1/4 x 1/2 Lg | 16 | 12 | 8 | 18 | 16 | 10 | 18 | 18 | 12 |
| 19 | K-3830 | Hex Bolt - 1/4 x 1/2 Lg | 16 | 12 | 8 | 18 | 16 | 10 | 18 | 18 | 12 |
| 20 | W-469 | Hex Bolt - 1/4 x 3/4 Lg | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 21 | W-187 | Hex Bolt - 3/8 x 1 1/4 Lg | 20 | 10 | 2 | 20 | 14 | 8 | 16 | 12 | 2 |
| 22 | W-521 | Lockwasher - 1/4 | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 23 | D-5579 | Flatwasher - 3/8..... | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 24 | W-523 | Lockwasher - 3/8 | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 25 | W-517 | Hex Nut - 5/8..... | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 |
| 26 | D-5277 | Serrated Locknut - 1/4 | 32 | 24 | 16 | 36 | 32 | 20 | 36 | 36 | 24 |
| 27 | W-512 | Hex Nut - 1/4..... | 24 | 18 | 12 | 27 | 24 | 15 | 27 | 27 | 18 |
| 28 | D-5279 | Serrated Locknut - 3/8 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | W-514 | Hex Nut - 3/8..... | 48 | 34 | 18 | 56 | 46 | 28 | 44 | 48 | 22 |
| 30 | W-526 | Lockwasher - 5/8 | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 |
| 31 | S44308 | Extension Bracket - Head Support..... | 10 | 5 | 1 | 10 | 7 | 4 | 8 | 6 | 1 |
| 32 | S44467 | Head Support Plate | - | - | - | - | - | - | - | - | - |
| 35 | N51977 | Clamp Plate | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | P7C616 | Carriage Bolt - 3/8 x 1 Lg..... | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| 37 | N51979 | Hose Clamp Strap | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | W-525 | Lockwasher - 1/2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 39 | W-516 | Hex Nut - 1/2..... | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

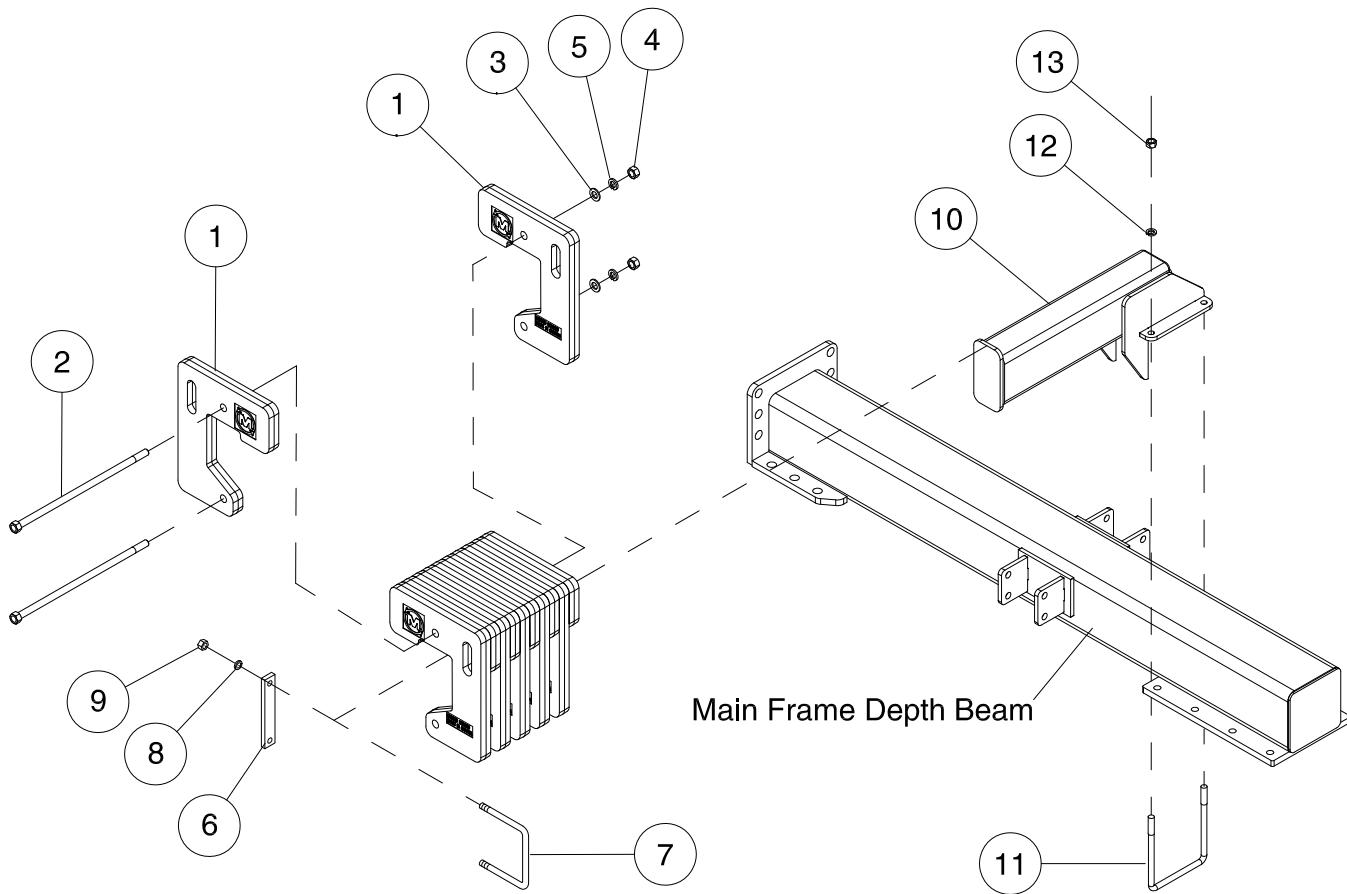
Notes

Section 7: Options

Section Contents

| | |
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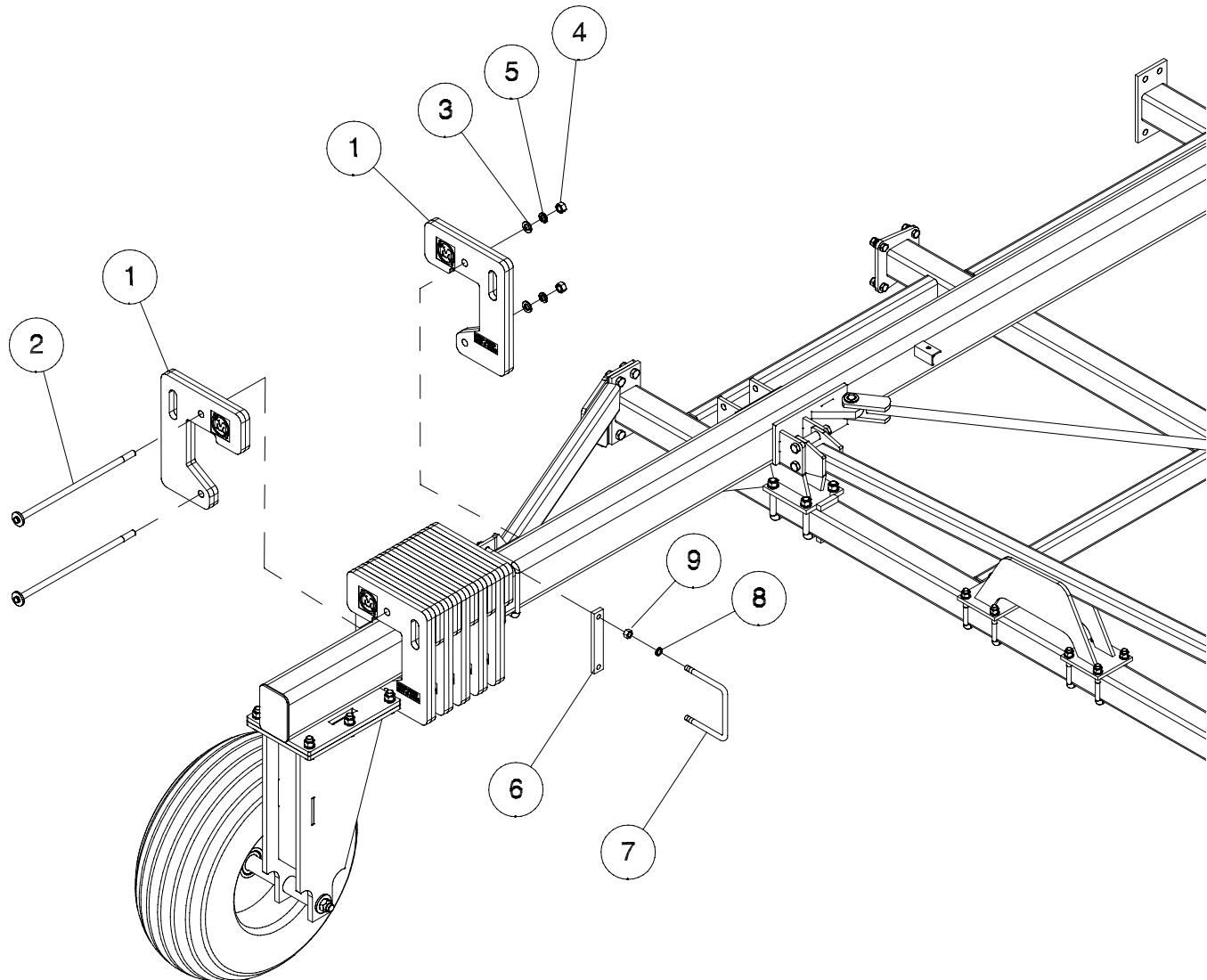
Options
Weight Kit - Main Frame



Note: Wrap Wieghts (1) around beam alternating left to right.

| Item | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | N37523 | Weight - 50 lb | 12 |
| 2 | S44449 | Rod - 3/4 Dia x 20 Lg | 2 |
| 3 | W-476 | Flat Washer - 3/4..... | 2 |
| 4 | W-518 | Hex Nut - 3/4..... | 2 |
| 5 | W-527 | Lockwasher - 3/4..... | 2 |
| 6 | S47530 | Plate - Weight Kit Stop | 1 |
| 7 | N33342 | U-Bolt - 5/8 x 7 x 6 1/2 UL | 1 |
| 8 | W-526 | Lockwasher - 5/8..... | 2 |
| 9 | W-517 | Hex Nut - 5/8..... | 2 |
| 10 | S55270 | Weight Mounting Arm - Main Frame | 2 |
| 11 | S49996 | U-Bolt - 3/4 x 8 1/4 x 10 1/2 UL..... | 4 |
| 12 | W-527 | Lockwasher - 3/4..... | 8 |
| 13 | W-518 | Hex Nut - 3/4..... | 8 |

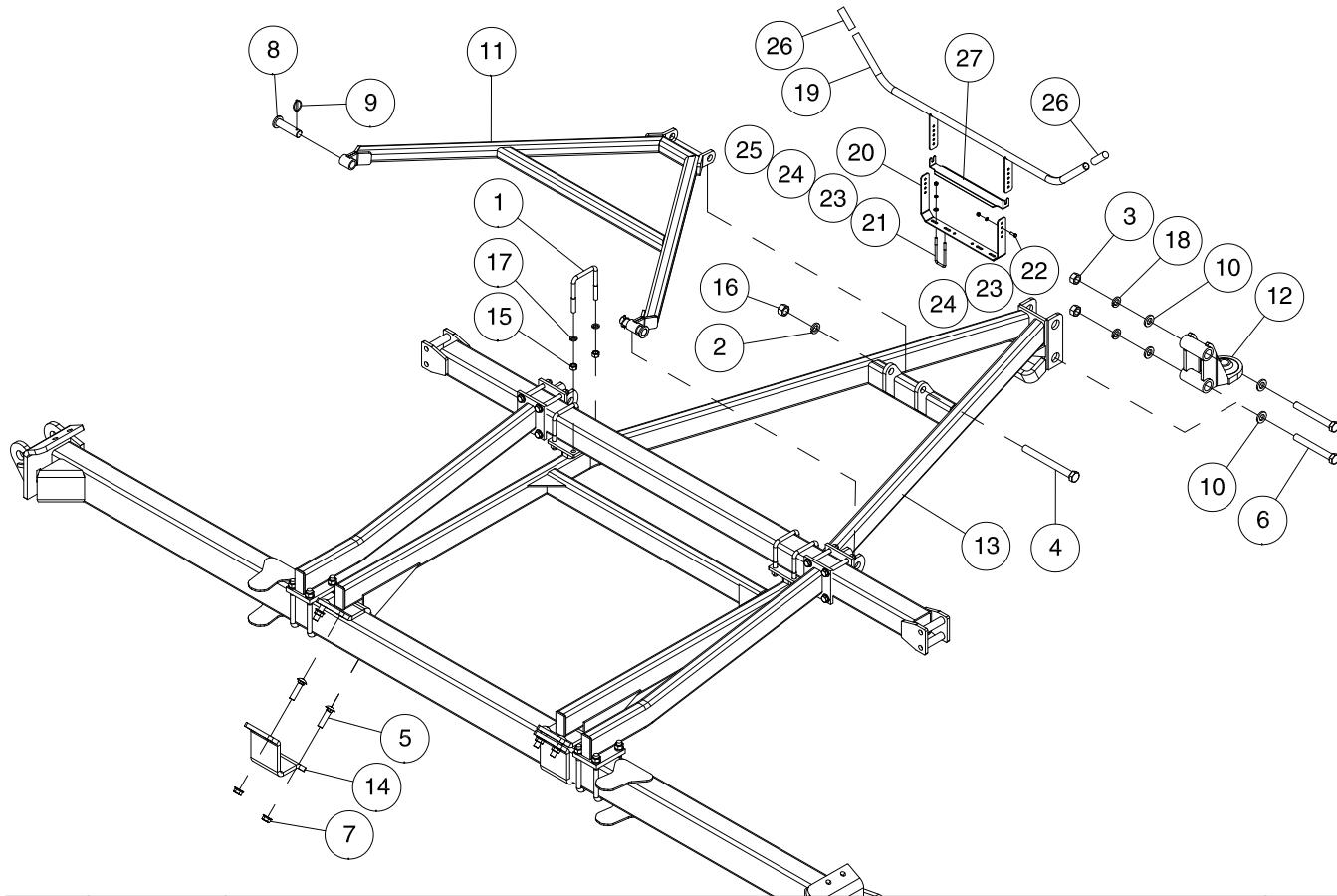
Options
Weight Kit - Wing Frame



Note: Wrap Wieghts (1) around beam alternating left to right.

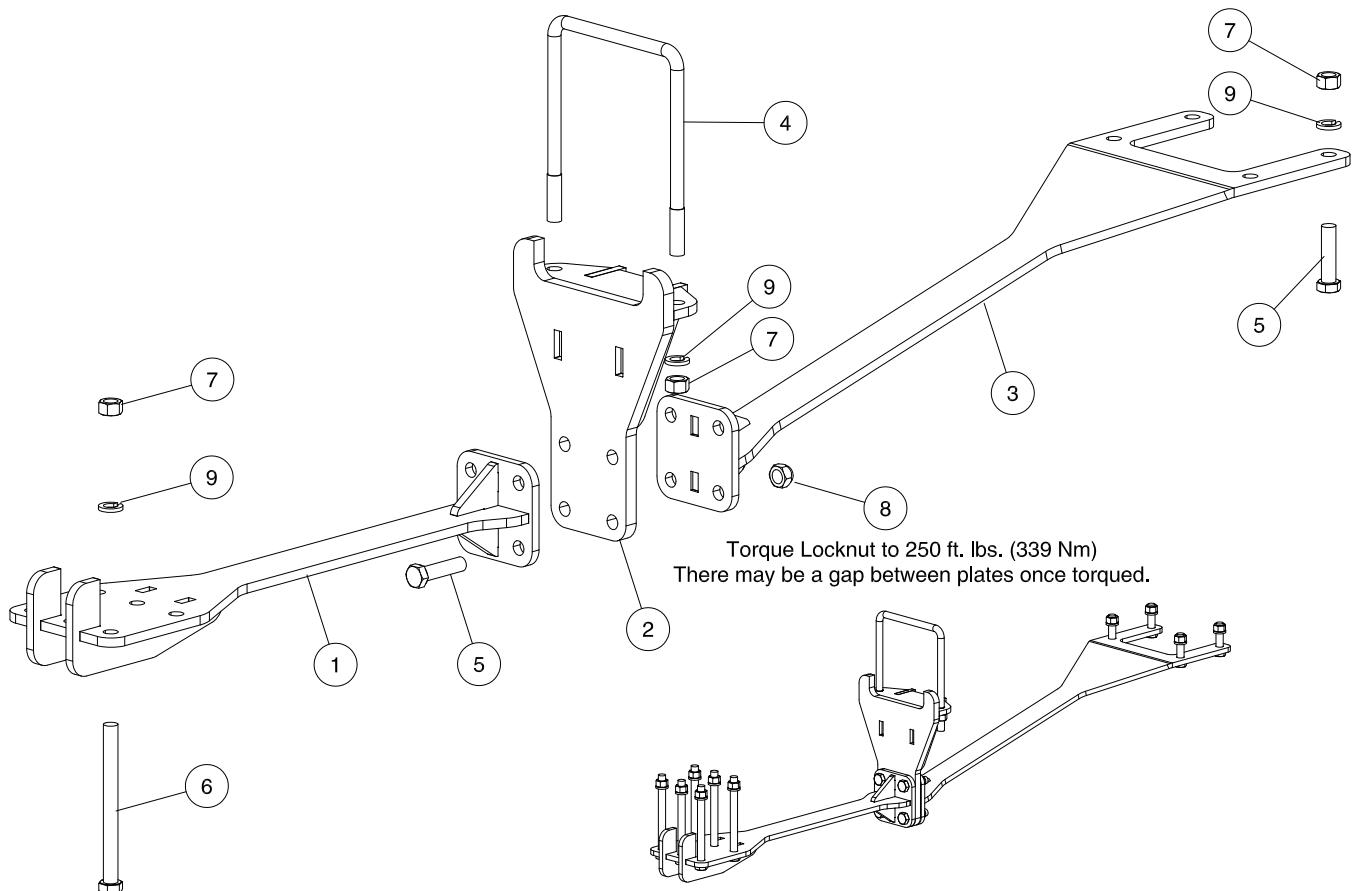
| Item | Part No. | Description | Qty |
|------|----------|---------------------------------------|-----|
| 1 | N37523 | Weight - 50lb | 12 |
| 2 | S44449 | Rod - 3/4 Dia x 20 Lg | 2 |
| 3 | W-476 | Flat Washer - 3/4 | 2 |
| 4 | W-518 | Hex Nut - 3/4 | 2 |
| 5 | W-527 | Lockwasher - 3/4..... | 2 |
| 6 | S47530 | Plate - Weight Kit Stop | 1 |
| 7 | N33342 | U-Bolt - 5/8 x 7 x 6 1/2 | 1 |
| 8 | W-526 | Lockwasher - 5/8..... | 2 |
| 9 | W-517 | Hex Nut - 5/8 | 2 |
| | S43741 | Weight Kit (Includes all above items) | |

Options
Rear Tow Hitch



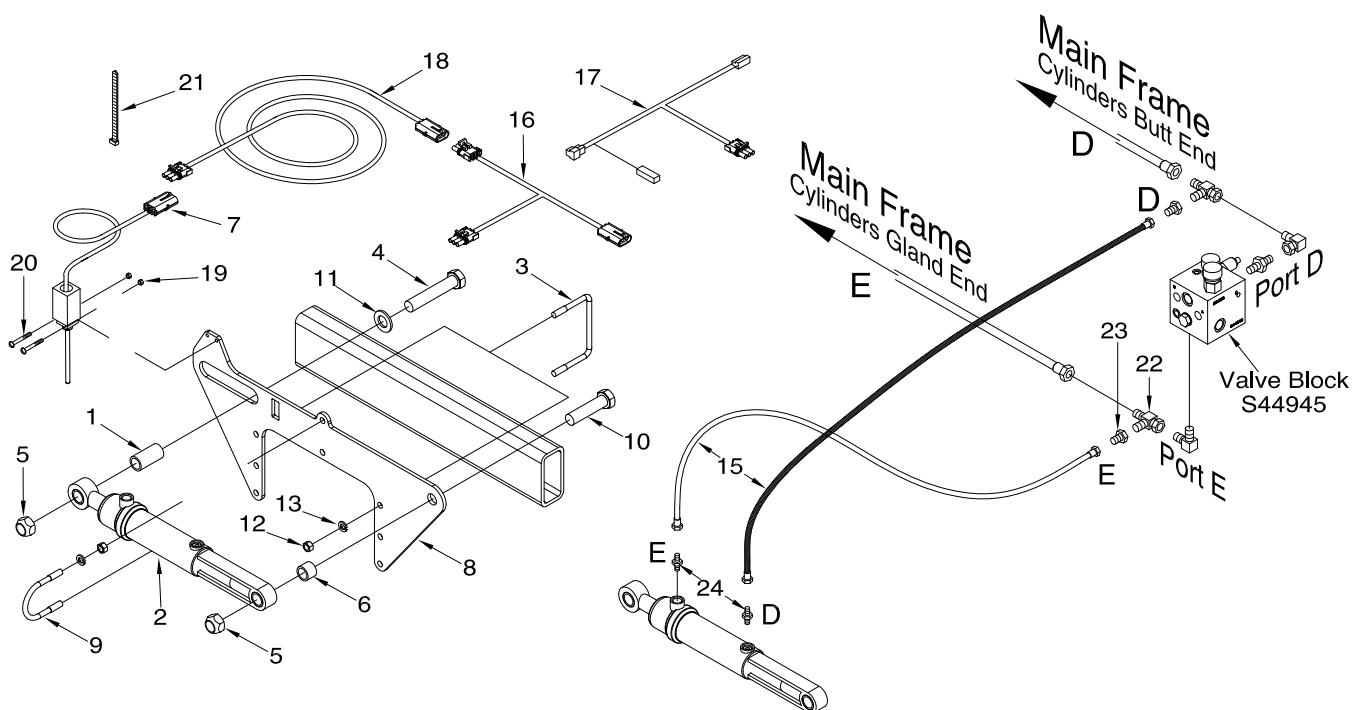
| Item | Part No. | Description | Qty |
|------|---------------|--|-----|
| 1 | C-219 | U-Bolt - 5/8 x 4 x 5 9/16 | 4 |
| 2 | C-705 | Lockwasher - 1 | 1 |
| 3 | W-520 | Hex Nut - 1 | 2 |
| 4 | C18756 | Hex Bolt - 1 x 10 Lg | 1 |
| 5 | C33957 | Carriage Bolt - 3/4 x 3 Lg | 8 |
| 6 | C18597 | Hex Bolt - 1 x 8 Lg | 2 |
| 7 | D12942 | Flange Lock Nut - 3/4 | 8 |
| 8 | N16226 | Hitch Pin - 1 18 Dia x 3 11/16 UL | 2 |
| 9 | N19307 | Klik Pin - 1/4 x 1 3/4 Lg | 2 |
| 10 | F-4490 | Washer - 1 1/32 ID x 1 7/8 OD x 1/4 Thick | 4 |
| 11 | S55035 | HD Brace - Hitch - (2 1/2 x 2 1/2 tubing) | 1 |
| 12 | S56135 | Hitch Clevis - Rear | 1 |
| 13 | S55045 | HD Hitch Beam - Quad Steer - (3 x 4 Beam) | 1 |
| 14 | S51353 | Mounting Plate | 2 |
| 15 | W-517 | Hex Nut - 5/8 | 16 |
| 16 | W-520 | Hex Nut - 1 | 1 |
| 17 | W-526 | Lockwasher - 5/8 | 16 |
| 18 | C-705 | Lockwasher - 1 | 2 |
| 19 | N56370 | Bracket - Hose Holder | 1 |
| 20 | N56371 | Strap - Hose Holder | 1 |
| 21 | N15098 | U-Bolt - 3/8 x 4 x 5 UL | 2 |
| 22 | W-475 | Hex Bolt - 3/8 x 1 Lg | 4 |
| 23 | W-514 | Hex Nut - 3/8 | 8 |
| 24 | W-523 | Lockwasher - 3/8 | 8 |
| 25 | D-5489 | Flatwasher - 13/32 ID x 13/16 OD x 16 Ga | 4 |
| 26 | N37049 | Rubber Grip | 2 |
| 27 | N69148 | Support - Hydraulic Hoses | 1 |

Options
Rear Truss Kit - Main Depth Beam



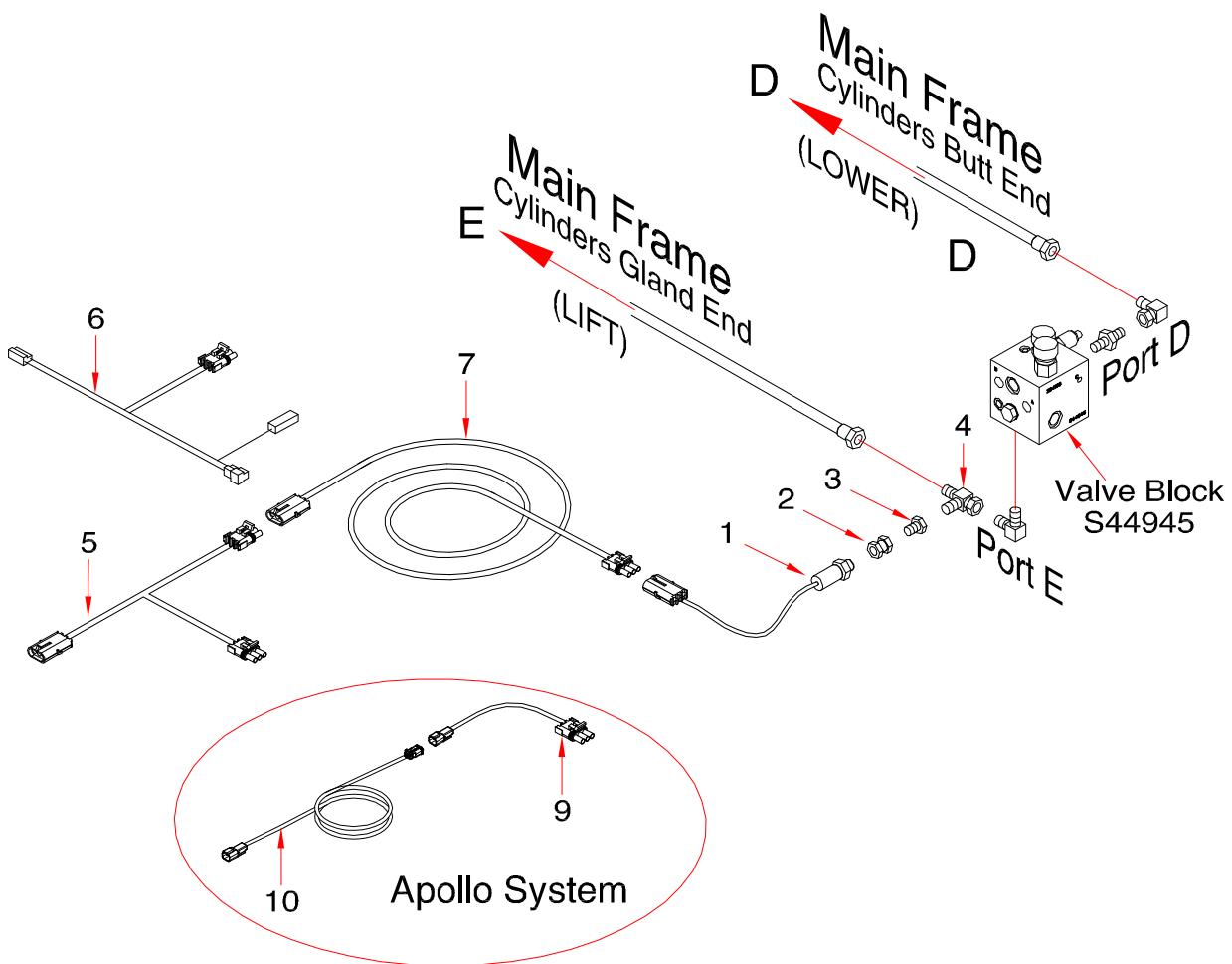
| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | S55470 | Truss Strap - Front..... | 2 |
| 2 | S55475 | Truss Strap - Center Support..... | 2 |
| 3 | S55480 | Truss Strap - Rear | 2 |
| 4 | S49996 | U-Bolt - 3/4 x 8 1/2 x 10 1/2 UL..... | 2 |
| 5 | W-63 | Hex Bolt - 3/4 x 3 Lg GR. 5 | 16 |
| 6 | S55482 | Hex Bolt - 3/4 x 8 1/2 Lg GR.8 | 12 |
| 7 | W-518 | Hex Nut - 3/4 GR.5..... | 24 |
| 8 | N49659 | Locknut - 3/4 Unitorque..... | 8 |
| 9 | W-527 | Lockwasher - 3/4..... | 24 |
| | S55775 | Kit - Main Depth Beam Rear Truss (Includes all above items) | |

Options
Remote Clutch Switch - Prior to September 2014



| Item | Part No. | Description | Qty |
|------|----------|---|-----|
| 1 | C33727 | Spacer - 0.760 ID x 1 OD x 2 Lg | 1 |
| 2 | C51153 | Cylinder - 1 3/4 Bore x 4 Stroke | 1 |
| 3 | D-4932 | U-Bolt - 3/8 x 4 x 3 | 2 |
| 4 | D-5256 | Hex Bolt - 3/4 x 4 Lg | 1 |
| 5 | D-5273 | Locknut - 3/4 Unitorque | 2 |
| 6 | J11333 | Spacer - 0.760 ID x 1 OD x 3/4 Lg | 1 |
| 7 | N32481 | Work Switch | 1 |
| 8 | S50463 | Mounting Plate - Work Switch | 1 |
| 9 | S50464 | U-bolt - 3/8 x 2-1/16 x 3 | 1 |
| 10 | W-63 | Hex Bolt - 3/4 x 3 Lg | 1 |
| 11 | W-476 | Flat Washer - 3/4 | 1 |
| 12 | W-514 | Hex Nut - 3/8 | 6 |
| 13 | W-523 | Lockwasher - 3/8 | 6 |
| 14 | ***** | | |
| 15 | S22406 | Hydraulic Hose - 1/4 x 72 Lg - 9/16-18 FJIC | 2 |
| 16 | N32482 | Connector - 'Y' Wire - Tow Behind ONLY - Weather Pak Ends | 1 |
| 17 | N32483 | Connector - 'Y' Wire - Tow Between ONLY - Weather Pak Ends | 1 |
| 18 | N32457 | Wire - Clutch Extension (Main) - 37 1/2 ft - Weather Pak Ends | 1 |
| 19 | N32102 | Nut - 3/16 | 2 |
| 20 | N32101 | Stove Bolt - 3/16 x 1 1/2 Lg | 2 |
| 21 | S13336 | Tie Strap | 6 |
| 22 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC | 2 |
| 23 | F10384 | Reducer - 9/16-18 MJIC x 7/8-14 FJIC | 2 |
| 24 | N29358 | Connector - 9/16-18 MJIC x 9/16-18 MORB | 2 |

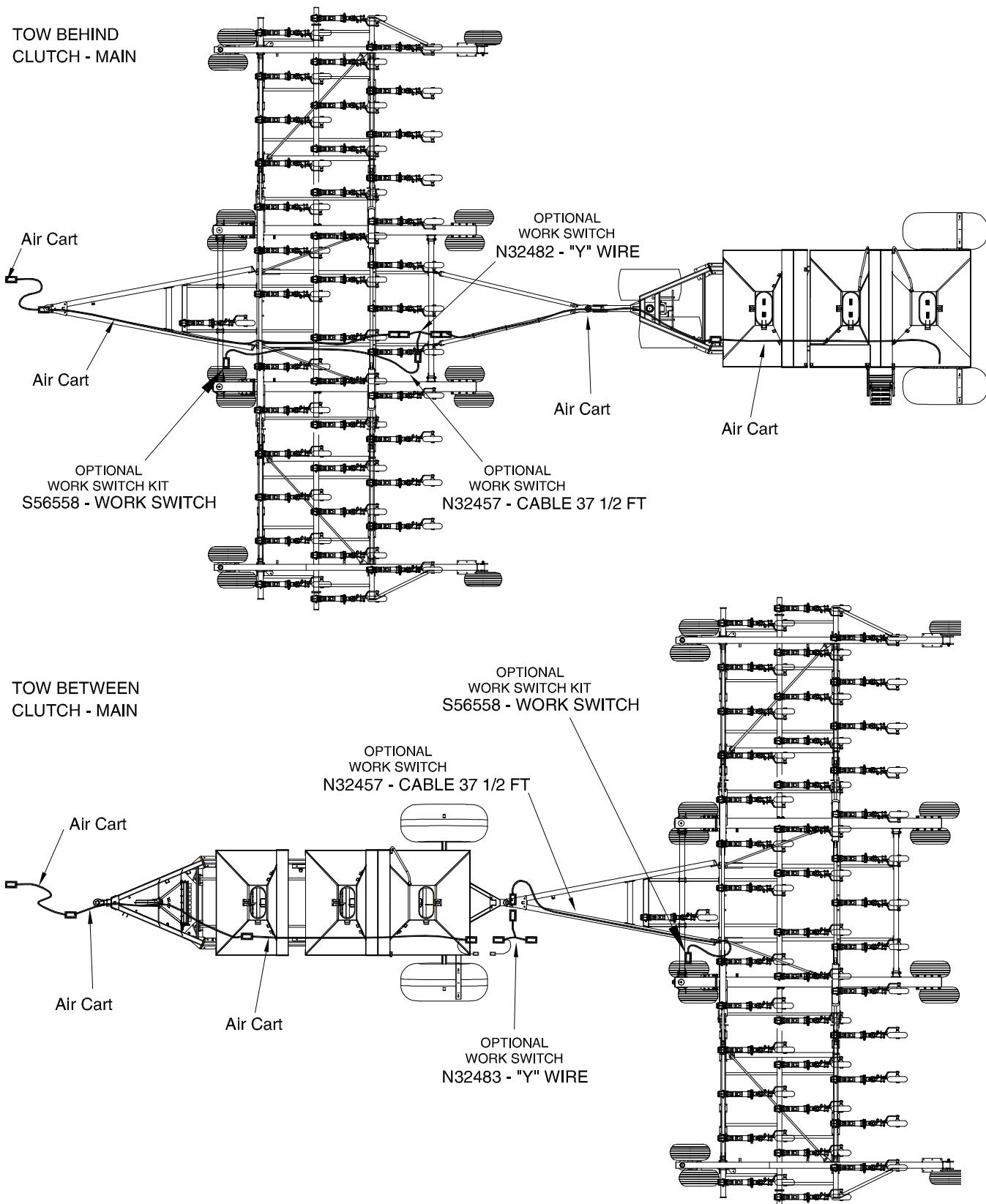
Options
Remote Clutch Switch - September 2014 to Present



| Item | Part No. | Description | Qty |
|-----------------------------|----------|--|-----|
| 1 | S56558 | Ground Drive and Base X20 and X30 Systems | |
| 2 | S42998 | Pressure Switch | 1 |
| 3 | F10384 | Connector - 1/4 FNPT x 9/16-18 FJIC | 1 |
| 4 | H18746 | Connector - 9/16-18 MJIC x 7/8-14 FJIC | 1 |
| 5 | N32482 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC | 1 |
| 6 | N32483 | Connector - 'Y' Wire - Tow Behind ONLY - Weather Pak Ends | 1 |
| 7 | N32457 | Connector - 'Y' Wire - Tow Between ONLY - Weather Pak Ends | 1 |
| 8 | S13336 | Wire - Clutch Extension (Main) - 37 1/2 ft - Weather Pak Ends..... | 1 |
| | S54297 | Tie Strap..... | 4 |
| | S54298 | Tow Between - Work Switch Kit (Includes Items 1, 2, 3, 4, 6, 7, and 8) | |
| | | Tow Behind - Work Switch Kit (Includes Items 1, 2, 3, 4, 5, 7, and 8) | |
| Apollo System - 2016 | | | |
| 1 | S56558 | Pressure Switch | 1 |
| 2 | S42998 | Connector - 1/4 FNPT x 9/16-18 FJIC | 1 |
| 3 | F10384 | Connector - 9/16-18 MJIC x 7/8-14 FJIC | 1 |
| 4 | H18746 | Tee - Swivel - (2) 7/8-14 MJIC x (1) 7/8-14 FJIC | 1 |
| 9 | N60323 | Harness Adaptor - Pressure Work Switch..... | 1 |
| 10 | N59010 | Harness - Work Switch - 5 m..... | 1 |

Options Remote Clutch Switch

The "Y" adaptor and extension cable attach to the Air Cart clutch harness as illustrated below.



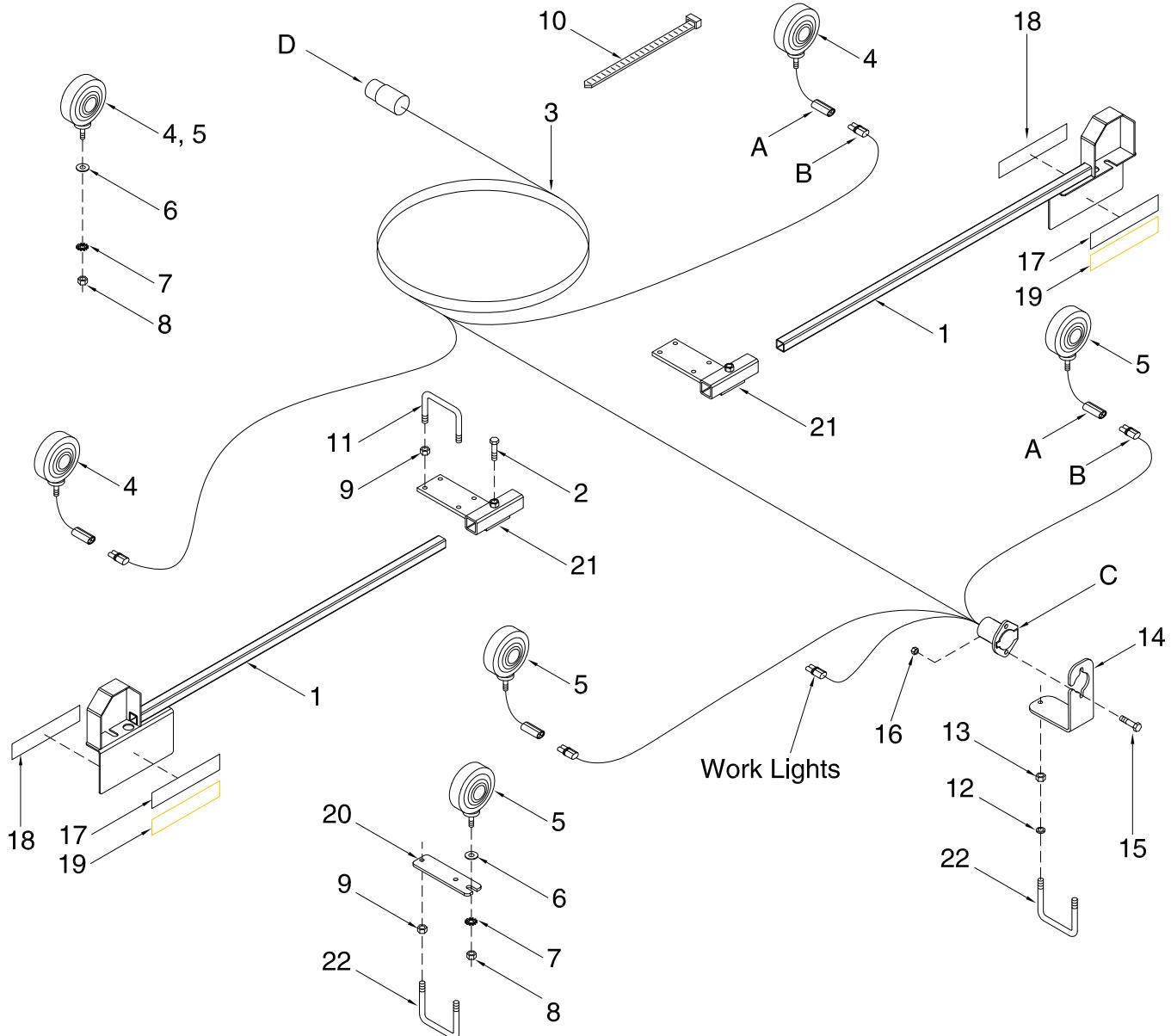
Section 8:

Lighting and Safety Signs

Section Contents

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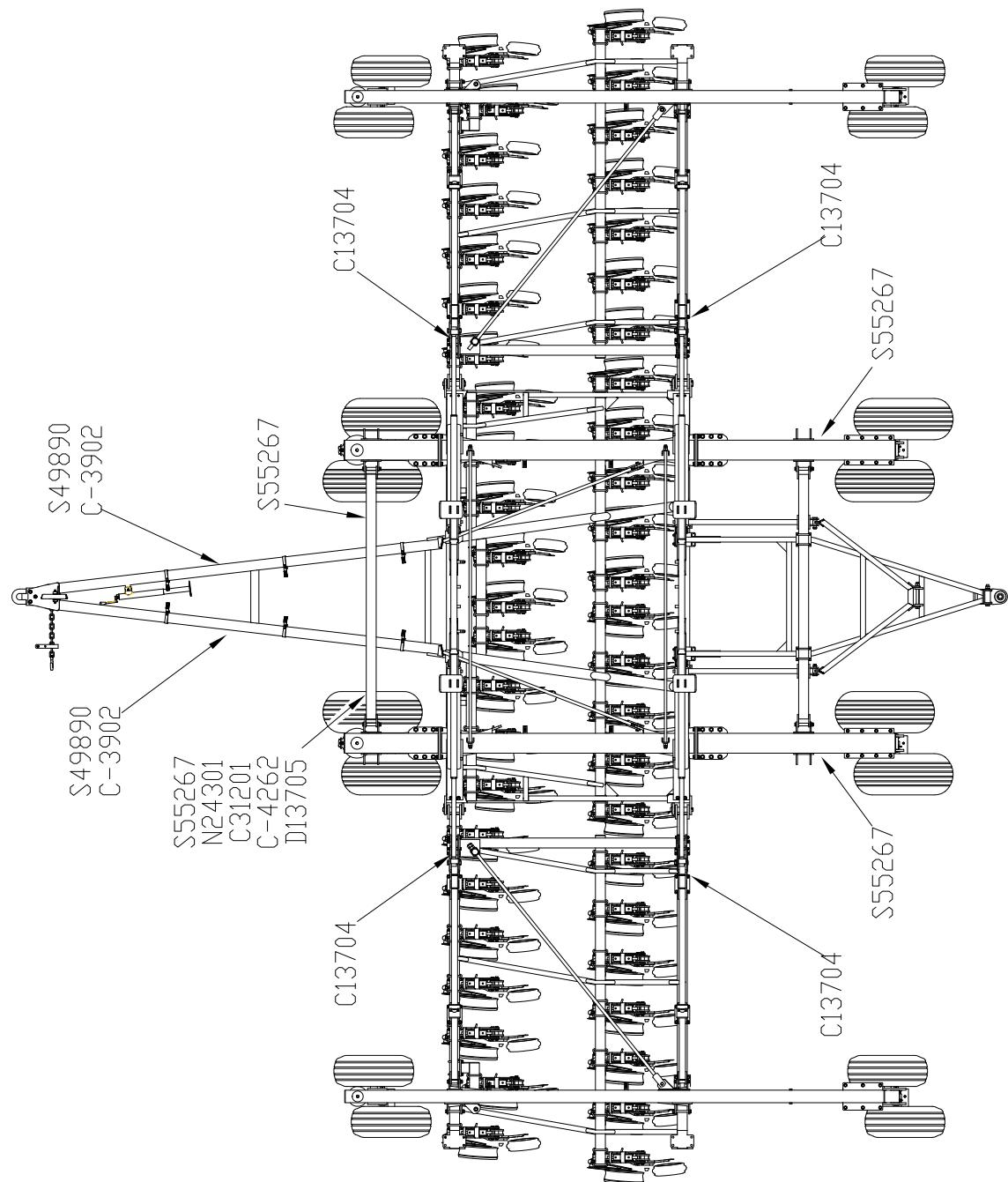
Lighting RAZR Disc Drill



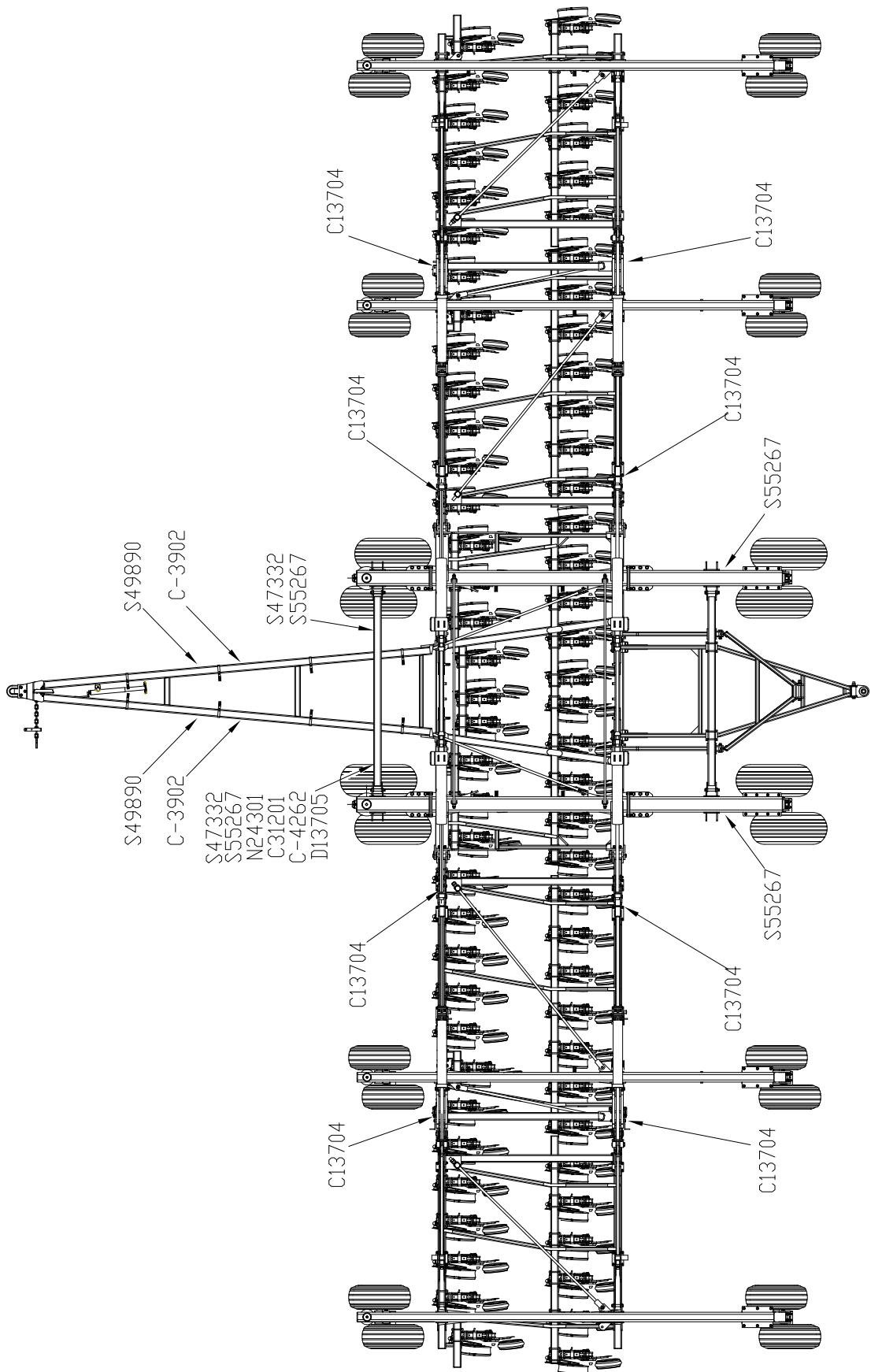
Lighting - RAZR Disc Drill

| Item | Part No. | Description | Qty |
|------|---------------|--|----------|
| 1 | S34464 | Tube - Mounting - Main - Lighting..... | 2 |
| 2 | W-484 | Hex Bolt - 1/2 x 1..... | 2 |
| 3 | S34466 | Wiring Harness - Safety Lights..... | 1 |
| 4 | C32765 | Light - Amber..... | 2 |
| 5 | C32766 | Light - Red | 2 |
| 6 | W-539 | Flatwasher - 1/2 | 4 |
| 7 | D-5280 | Starwasher - 1/2..... | 4 |
| 8 | W-516 | Hex Nut - 1/2 | 4 |
| 9 | D-5279 | Flange Locknut - 3/8 | 12 |
| 10 | D-4951 | Nylon Tie Strap - 7 3/8 lg..... | 20 |
| | S13336 | Nylon Tie Strap - 28 1/4 lg..... | 10 |
| 11 | N19723 | U-Bolt - 3/8 x 4 x 7 | 4 |
| 12 | W-523 | Lockwasher - 3/8..... | 2 |
| 13 | W-514 | Hex Nut - 3/8 | 2 |
| 14 | N32001 | Bracket - Mounting | 1 |
| 15 | N29048 | Carriage Head Bolt - 5/16 x 1 lg..... | 2 |
| 16 | D-5278 | Serrated Nut - 5/16..... | 2 |
| 17 | N34476 | Reflector - Red | 2 |
| 18 | N34477 | Reflector - Amber | 2 |
| 19 | N34478 | Reflector - Orange..... | 2 |
| 20 | S34465 | Bracket - Mounting | 2 |
| 21 | S44325 | Bracket - Mounting | 2 |
| 22 | N15098 | U-Bolt - 3/8 x 4 x 5 | 3 |
| | C32761 | Red Acrylic Lens | |
| | C32762 | Amber Acrylic Lens | |
| | C32515 | Bulb - #1156 (Amber Light) | |
| | C32656 | Bulb - #1157 (Red Light) | |
| A | C32681 | Recepticale Connector Assembly - GRAY - 2 Pin | |
| B | C32682 | Plug Connector Assemby - GRAY - 2 Pin | |
| C | C32686 | Connector Assembly - 7 Pin Socket | |
| | C32684 | Interior - Socket - 7 Pin Connector | |
| | C32685 | Protective Boot - Socket - 7 Pin Connector | |
| D | C32690 | Connector Assembly - 7 Pin Plug (Complete with Cable Protector Spring) | |
| | C32688 | Interior - Plug - 7 Pin Connector | |
| | C32689 | Cable Protector Spring - Plug - 7 Pin Connector | |

**Safety Signs
40 ft Disc Drill**



Safety Signs 50 ft and 60 ft Disc Drill



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