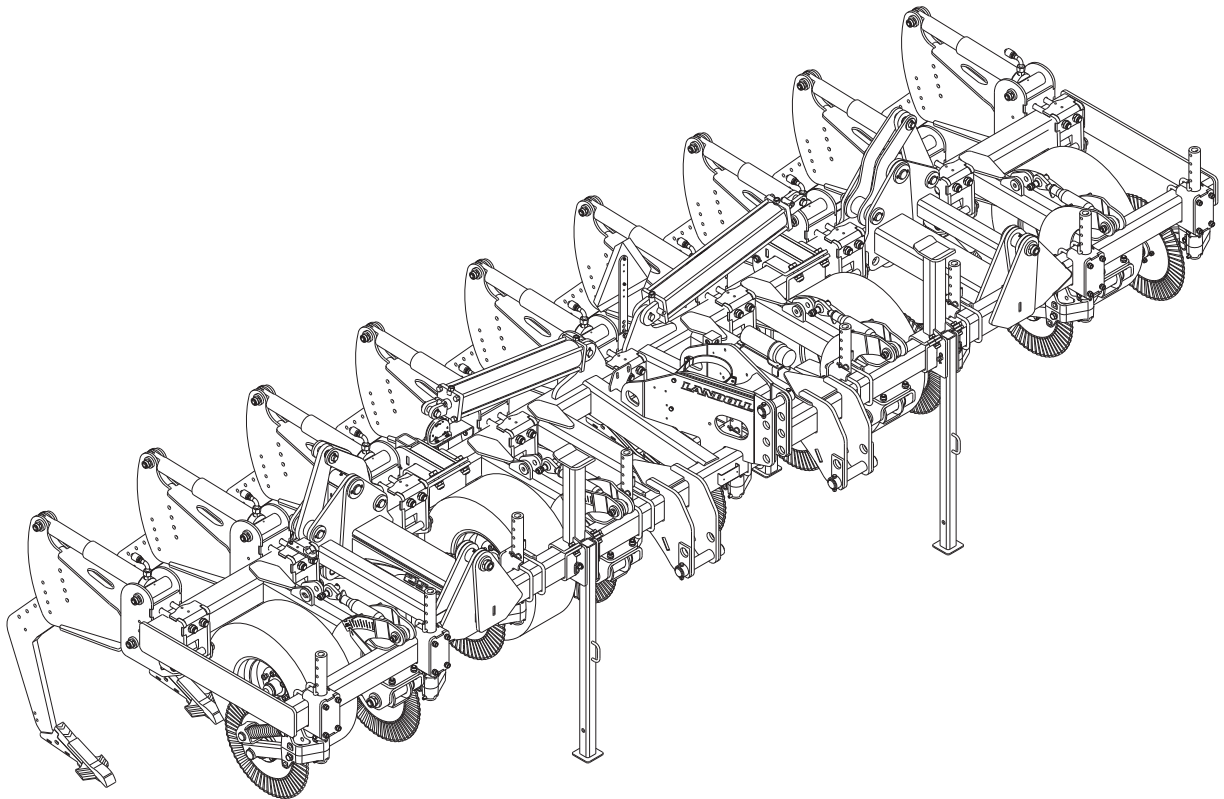




# 2512 In-Line Ripper

FOR UNITS SHIPPED AFTER DECEMBER 1, 2020  
(SN:25M201237 AND ABOVE)  
PREVIOUS UNITS SHOULD REFERENCE F-1039-0320

## Parts Manual



### LANDOLL COMPANY, LLC

1900 North Street  
Marysville, Kansas 66508  
(785) 562-5381

800-428-5655 ~ [WWW.LANDOLL.COM](http://WWW.LANDOLL.COM)

# Instructions for Ordering Parts

**\*\* Repair parts must be ordered through an Authorized Dealer \*\***

## DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: [dealer.landoll.com](http://dealer.landoll.com)

### DATA PLATE

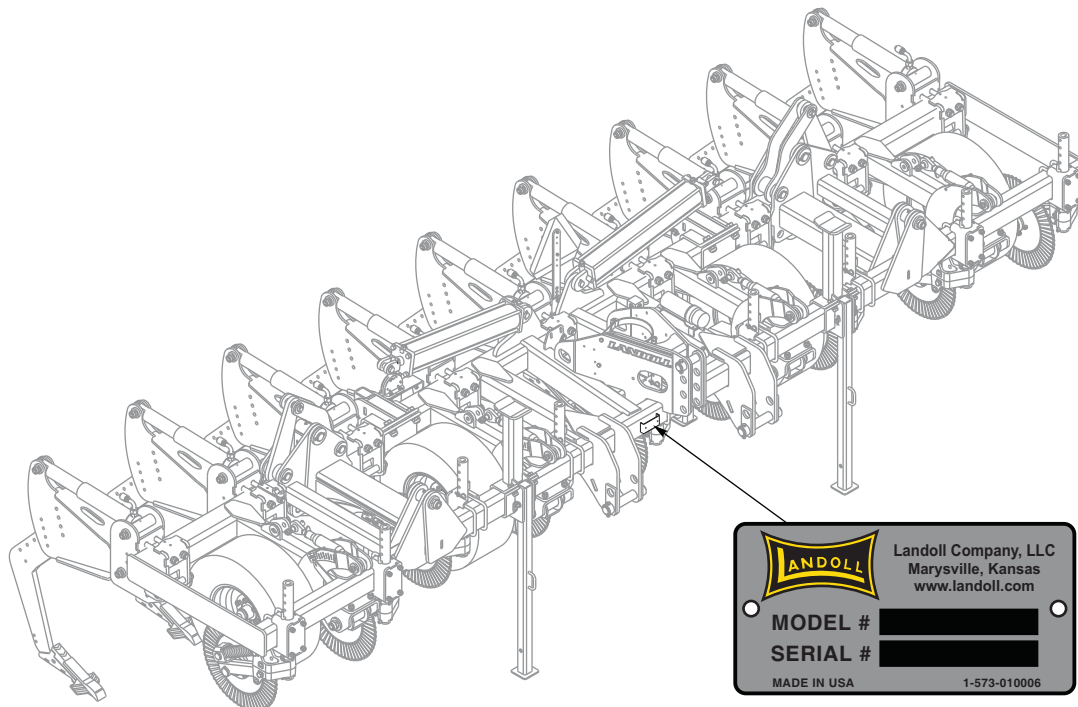
The Data Plate, which lists the model number and serial number, is located on the front of the frame.

### SERIAL NUMBER

The following information will help decode the serial number.

**25C2400100 = xxmysssss**

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| <b>xx</b>    | = model series<br>(i.e. "25" for all In-Line Rippers)                      |
| <b>m</b>     | = month of manufacture<br>(ex. "C" means March. The letter I is not used.) |
| <b>yy</b>    | = year manufactured<br>(ex. "24" means 2024)                               |
| <b>sssss</b> | = sequential number used to track warranty<br>and service information.     |



**Figure: Data Plate**

## Manuals for 2512 In-Line Ripper and Caddy

FOR UNITS SHIPPED AFTER DECEMBER 1, 2020 (SN: 25M201237 AND ABOVE)

PREVIOUS UNITS SHOULD REFERENCE F-1039-0320

| Manual Number | Manual Type                                      |
|---------------|--------------------------------------------------|
| F-1040        | Operator's Manual                                |
| F-1039        | Parts Manual ( <b>2512 In-Line Ripper ONLY</b> ) |
| F-1075        | Caddy Parts Manual ( <b>ONLY</b> )               |

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# Frames

## Rigid Frame

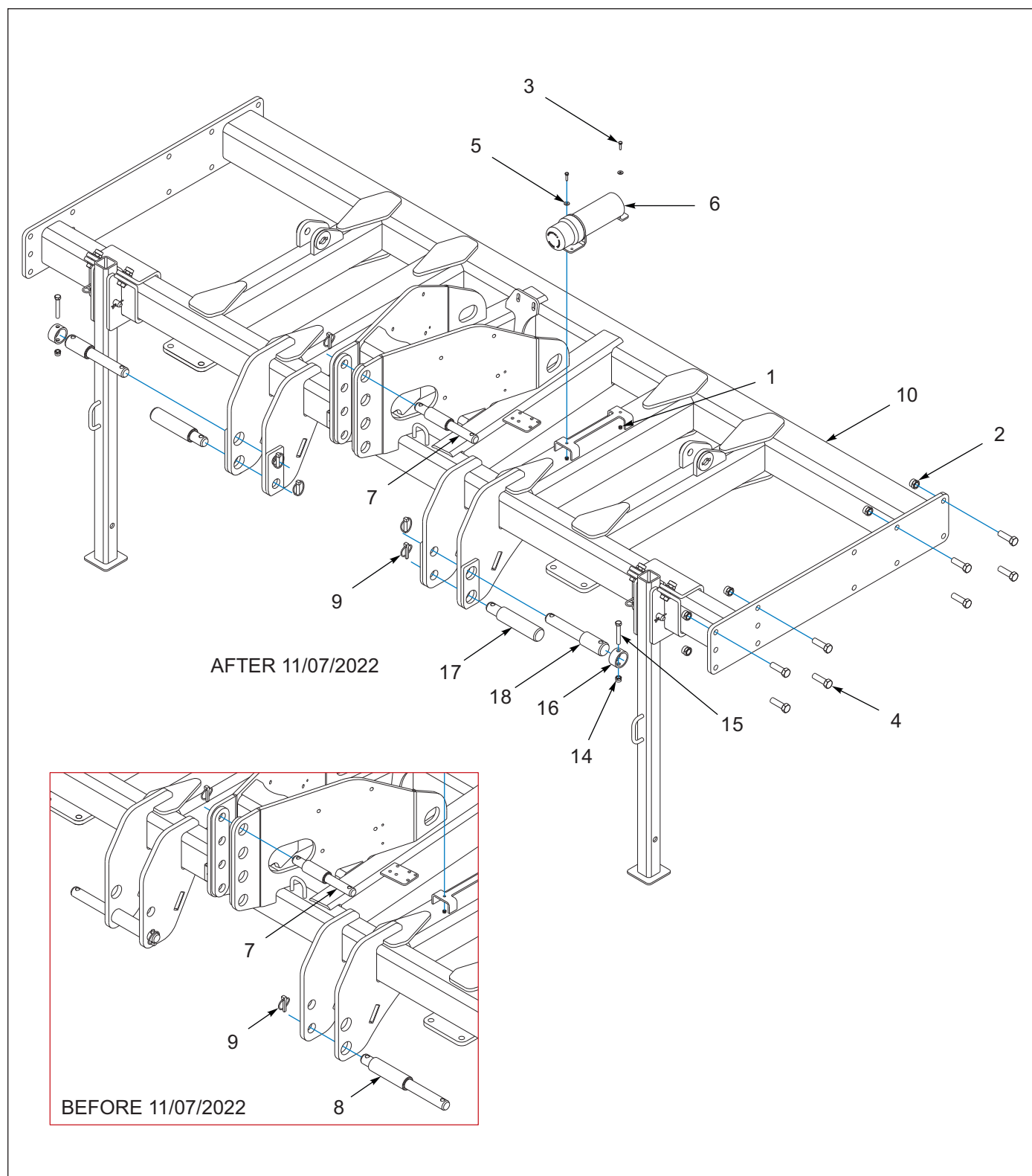


Figure 1-1: Rigid Frame (1 of 2)

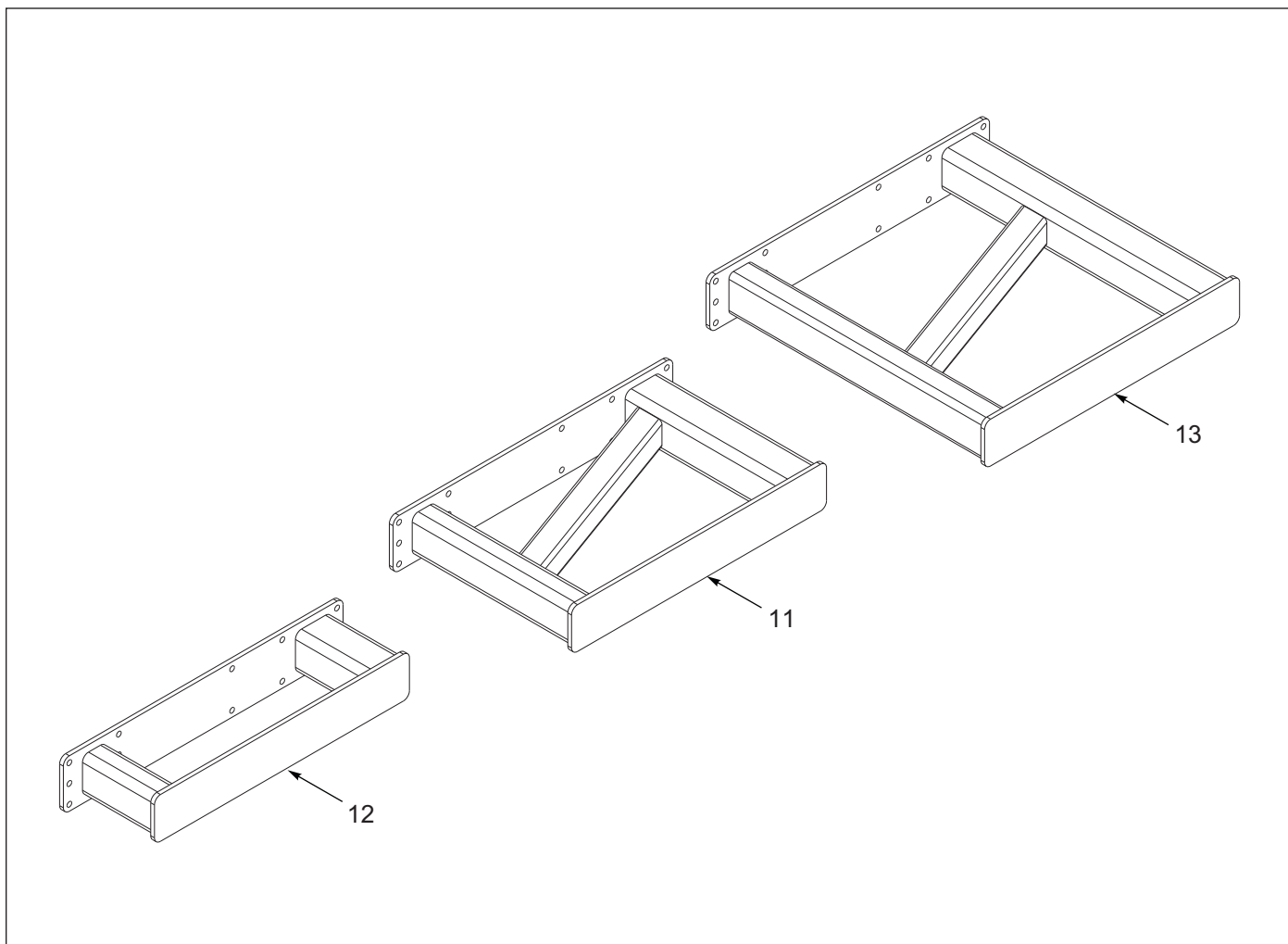


Figure 1-2: Rigid Frame (2 of 2)

## Rigid Frame

| ITEM | PART NUMBER     | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                        | 2    |
| 2    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                        | 16   |
| 3    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                      | 2    |
| 4    | 1-654-010061-07 | SCREW,HX CP 3/4-10UNCX2-1/2G5                    | 8    |
| 5    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                               | 2    |
| 6    | 142753          | MANUAL HOLDER                                    | 1    |
| 7    | 191655          | PIN TOP LINK CAT II/III/IV-N                     | 1    |
| 8    | 191656          | PIN HITCH CAT II/III/IV-N (BEFORE 11/07/2022)    | 2    |
| 9    | 2-557-010417    | PIN, LYNCH CAT III                               | 5    |
| 10   | 210891          | FRAME-RIGID, 2512 WLDMT                          | 1    |
| 11   | 213207          | EXTENSION WLDMT, 27IN (7 SHANKS)                 | 2    |
| 12   | 213212          | EXTENSION-12 INCH, WLDMT (6 SHANKS)              | 2    |
| 13   | 214353          | FRAME-EXTENSION, LONG, WLDMT (8 SHANKS)          | 2    |
| 14   | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB (AFTER 11/07/2022)    | 2    |
| 15   | 1-654-010055-10 | SCREW HEX CAP 1/2-13X3-1/4GR5 (AFTER 11/07/2022) | 2    |
| 16   | 221925          | BUSHIN-HITCH LOWER (AFTER 11/07/2022)            | 2    |
| 17   | 240265          | PIN-HITCH, CAT IV-N (AFTER 11/07/2022)           | 2    |
| 18   | 240266          | PIN-HITCH, CAT III (AFTER 11/07/2022)            | 2    |

## FRAMES

## Folding Frame

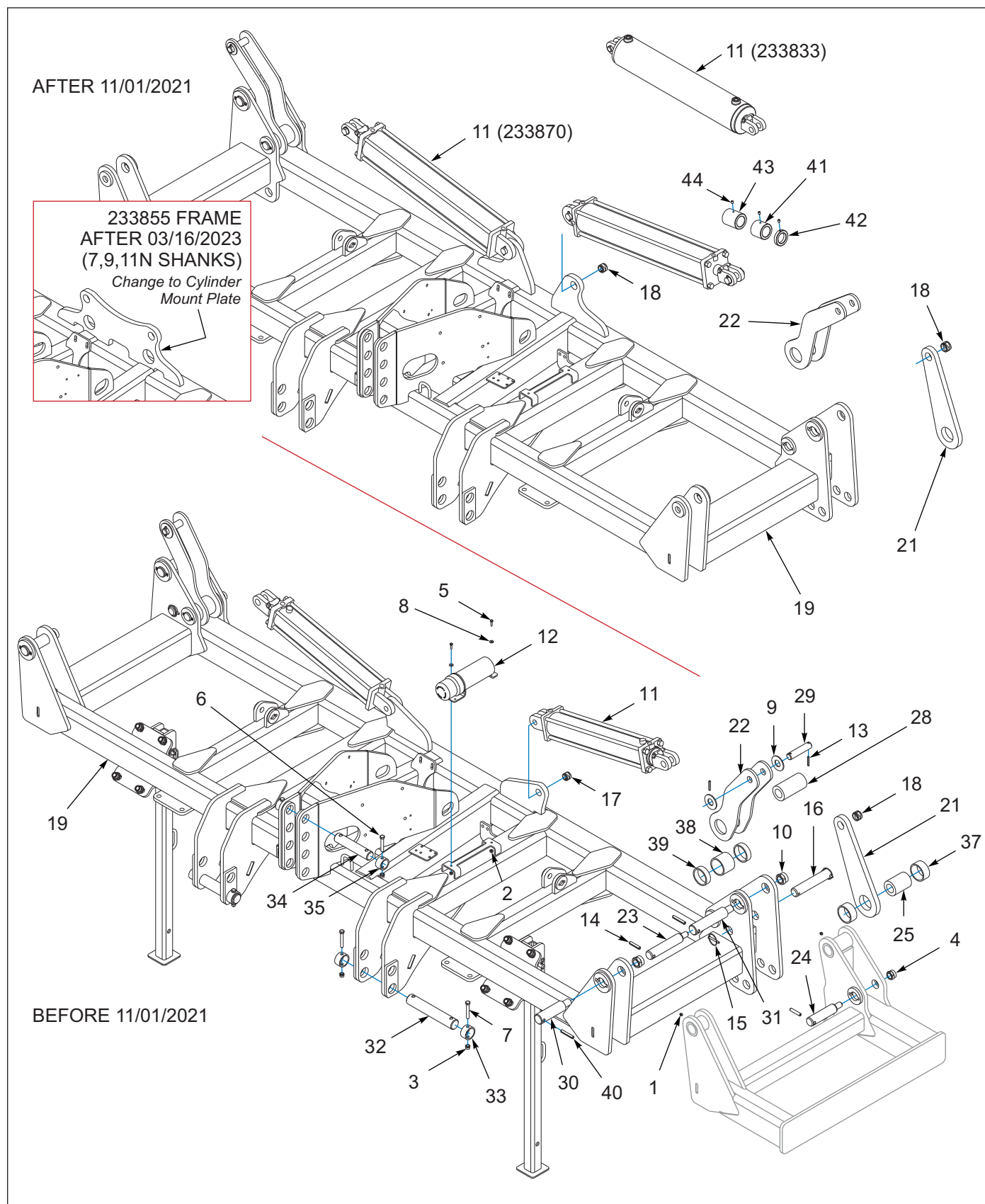


Figure 1-3: 2512 Folding Frame (1 of 2)

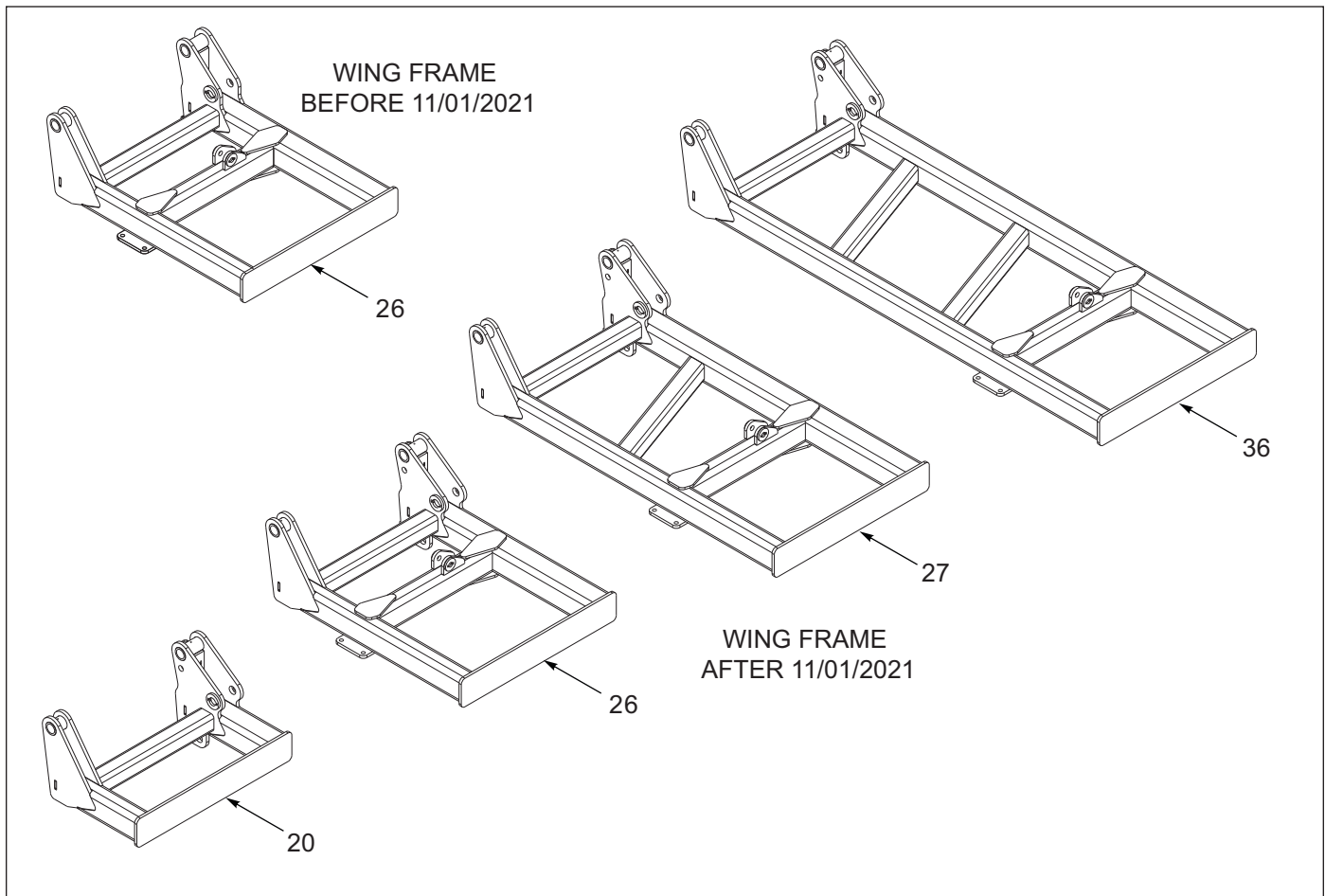


Figure 1-4: 2512 Folding Frame (2 of 2)

## Folding Frame

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                    | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------|------|
| 1    | 1-298-010001-1  | ZERK FITTING 1/4 SAE                                                                                           | 4    |
| 2    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                                                                                      | 2    |
| 3    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                     | 6    |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                                    | 4    |
| 5    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                                                                                    | 2    |
| 6    | 1-654-010055-09 | SCREW,HX CP,1/2-13UNCX3 GR5                                                                                    | 2    |
| 7    | 1-654-010055-10 | SCREW HEX CAP 1/2-13X3-1/4GR5                                                                                  | 4    |
| 8    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                                                                                             | 2    |
| 9    | 116100          | WASHER 1-1/4 NAR FL ZP/CD (AFTER 11/01/2021)                                                                   | 4    |
| 9    | 1-861-010032-29 | WASHER, FLAT 1-1/4 W ZP/CD (BEFORE 11/01/2021)                                                                 | 4    |
| 10   | 101385          | NUT,HEX SLFLKG,1-1/4-7 GRB                                                                                     | 4    |
| 11   | 233870          | CYLINDER, HYD 5 X 30, 3000 PSI (SEE PAGE 4-23)<br>(AFTER 11/01/2021 - 7, 8, 9, 10, 11, 11N, 12, 13, 14 SHANKS) | 2    |
| 11   | 233833          | CYLINDER-HYD, 6 X 30, 3000 PSI (SEE PAGE 4-25)<br>(AFTER 11/01/2021 - 15, 16 SHANKS)                           | 2    |
| 11   | 108331          | CYLINDER, HYD 4X24 SP (BEFORE 11/01/2021) (SEE PAGE 4-26)                                                      | 2    |
| 12   | 142753          | MANUAL HOLDER                                                                                                  | 1    |
| 13   | 147072          | PIN, SPRING SLOTTED 5/16 X 2                                                                                   | 4    |
| 14   | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                                                   | 4    |
| 15   | 172946          | PIN LYNCH 5/16 X 2.00                                                                                          | 4    |

## FRAMES

## Folding Frame

| ITEM | PART NUMBER  | DESCRIPTION                                                                                                | QTY. |
|------|--------------|------------------------------------------------------------------------------------------------------------|------|
| 16   | 179470       | PIN 1-3/4X7-3/4, 2H                                                                                        | 2    |
| 17   | 192890       | BUSHING 1-3/8ODX1 IDX1 STEEL (BEFORE 11/01/2021)                                                           | 2    |
| 18   | 2-150-010174 | BUSHING, 1-5/8X1-1/4X1 (BEFORE 11/01/2021, QTY=2)                                                          | 4    |
| 19   | 233855       | FRAME-FOLDING (5), 2512F WLDMT<br>(AFTER 11/01/2021 - 7, 9, 11N SHANKS)                                    | 1    |
| 19   | 219955       | FRAME-FOLDING (5), 2512F WLDMT<br>(BEFORE 11/01/2021 - 7, 9, 11N SHANKS)                                   | 1    |
| 19   | 233856       | FRAME-FOLDING (6), 2512F WLDMT<br>(AFTER 11/01/2021 - 8, 10, 12 SHANKS)                                    |      |
| 19   | 221314       | FRAME-FOLDING (6), 2512F WLDMT<br>(BEFORE 11/01/2021 - 8, 10, 12 SHANKS)                                   | 1    |
| 19   | 233857       | FRAME-FOLDING (7), 2512F WLDMT<br>(AFTER 11/01/2021 - 11, 13, 15 SHANKS)                                   | 1    |
| 19   | 221939       | FRAME-FOLDING (7), 2512F WLDMT<br>(BEFORE 11/01/2021 - 11, 13, 15 SHANKS)                                  | 1    |
| 19   | 233858       | FRAME-FOLDING (8), 2512F WLDMT<br>(AFTER 11/01/2021 - 14, 16 SHANKS)                                       | 1    |
| 19   | 221943       | FRAME-FOLDING (8), 2512F WLDMT<br>(BEFORE 11/01/2021 - 14, 16 SHANKS)                                      | 1    |
| 20   | 233859       | FRAME-WING, LH, (1) WLDMT (LEFT ONLY) (SHOWN)<br>(AFTER 11/01/2021 - 7 & 8 SHANKS)                         | 1    |
| 20   | 219973       | FRAME-WING, LH, (1) WLDMT (LEFT ONLY) (SHOWN)<br>(BEFORE 11/01/2021 - 7 & 8 SHANKS)                        | 1    |
| 20   | 233860       | FRAME-WING, RH, (1) WLDMT (RIGHT ONLY)<br>(AFTER 11/01/2021 - 7 & 8 SHANKS)                                | 1    |
| 20   | 219974       | FRAME-WING, RH, (1) WLDMT (RIGHT ONLY)<br>(BEFORE 11/01/2021 - 7 & 8 SHANKS)                               | 1    |
| 21   | 233830       | LINK-WING FOLD (AFTER 11/01/2021)                                                                          | 2    |
| 21   | 219977       | LINK-WING FOLD (BEFORE 11/01/2021)                                                                         | 2    |
| 22   | 233852       | LINK-WING FOLD (AFTER 11/01/2021 - 11N, 12, 13, 14, 15, 16 SHANKS)                                         | 4    |
| 22   | 233828       | LINK-WING FOLD (AFTER 11/01/2021 - 7, 8, 9, 10, 11, SHANKS)                                                | 4    |
| 22   | 219978       | LINK-WING FOLD (BEFORE 11/01/2021)                                                                         | 4    |
| 23   | 219980       | PIN, 1-3/4 X 7-1/2, STEP                                                                                   | 2    |
| 24   | 219981       | PIN, 1-3/4 X 5-3/4, STEP                                                                                   | 2    |
| 25   | 219983       | BUSHING, 3.0 X 1.78 X 4-3/32                                                                               | 2    |
| 26   | 233861       | FRAME-WING, LH, (2), WLDMT (LEFT ONLY) (SHOWN)<br>(AFTER 11/01/2021 - 9, 10, 11 SHANKS)                    | 1    |
| 26   | 219991       | FRAME-WING, LH, (2), WLDMT (LEFT ONLY) (SHOWN)<br>(BEFORE 11/01/2021 - 9, 10, 11 SHANKS)                   | 1    |
| 26   | 233862       | FRAME-WING, RH, (2), WLDMT (RIGHT ONLY)<br>(AFTER 11/01/2021 - 9, 10, 11 SHANKS)                           | 1    |
| 26   | 219992       | FRAME-WING, RH, (2), WLDMT (RIGHT ONLY)<br>(BEFORE 11/01/2021 - 9, 10, 11 SHANKS)                          | 1    |
| 27   | 233865       | FRAME-WING, LH, (3), WLDMT (LEFT ONLY) (SHOWN)<br>(AFTER 11/01/2021 - 11N, 11, 12, 13, 14, 15, 16 SHANKS)  | 1    |
| 27   | 219995       | FRAME-WING, LH, (3), WLDMT (LEFT ONLY) (SHOWN)<br>(BEFORE 11/01/2021 - 11N, 11, 12, 13, 14, 15, 16 SHANKS) | 1    |
| 27   | 233866       | FRAME-WING, RH, (3), WLDMT (RIGHT ONLY)<br>(AFTER 11/01/2021 - 11, 12, 13, 14, 15, 16 SHANKS)              | 1    |

## Folding Frame

| ITEM | PART NUMBER | DESCRIPTION                                                                                                                                                                               | QTY. |
|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 27   | 219996      | FRAME-WING, RH, (3), WLDMT (RIGHT ONLY)<br>(BEFORE 11/01/2021 - 11, 12, 13, 14, 15, 16 SHANKS)                                                                                            | 1    |
| 28   | 221311      | BUSHING, 3.0 X 1.78 X 5-7/8                                                                                                                                                               | 2    |
| 29   | 221312      | PIN, 1-1/4 X 5-1/2 (4-7/16)                                                                                                                                                               | 2    |
| 30   | 221318      | PIN-SHOULDER, 2X5-1/2                                                                                                                                                                     | 2    |
| 31   | 221319      | PIN-SHOULDER, 2X7-1/2                                                                                                                                                                     | 2    |
| 32   | 221924      | PIN-HITCH, LOWER CAT IV                                                                                                                                                                   | 2    |
| 33   | 221925      | BUSHIN-HITCH LOWER                                                                                                                                                                        | 4    |
| 34   | 221926      | PIN-HITCH, UPPER CAT IV                                                                                                                                                                   | 1    |
| 35   | 221927      | BUSHING-HITCH UPPER                                                                                                                                                                       | 2    |
| 36   | 233867      | FRAME-WING, LH, (4), WLDMT (LEFT ONLY)<br>(AFTER 11/01/2021 - 15, 16 SHANKS) (SHOWN)                                                                                                      | 1    |
| 36   | 221947      | FRAME-WING, LH, (4), WLDMT (LEFT ONLY)<br>(BEFORE 11/01/2021 - 15, 16 SHANKS) (SHOWN)                                                                                                     | 1    |
| 36   | 233868      | FRAME-WING, RH, (4), WLDMT (RIGHT ONLY)<br>(AFTER 11/01/2021 - 15, 16 SHANKS)                                                                                                             | 1    |
| 36   | 221948      | FRAME-WING, RH, (4), WLDMT (RIGHT ONLY)<br>(BEFORE 11/01/2021 - 15, 16 SHANKS)                                                                                                            | 1    |
| 37   | 224450      | BUSHING, 3.5X3.04X1-1/2, PVC                                                                                                                                                              | 4    |
| 38   | 224451      | BUSHING, 3.5X3.04X2-3/4, PVC                                                                                                                                                              | 2    |
| 39   | 224452      | BUSHING, 3.5X3.04X1, PVC                                                                                                                                                                  | 4    |
| 40   | 5D979       | ROLL PIN 1/2 X 3                                                                                                                                                                          | 4    |
| 41   | 235888      | STOP-CYL, 2 ROD X 2-5/8 (USED W/233870 HYD CYL)<br>(AFTER 06/07/2023 - 7, 8, 11N, 12, 13, 14 ALL CLAMP TYPES)<br>(11/01/2021 TO 06/07/2023 - 7, 8, 12, 14, 14 ALL - 9, 10, 11 SPRING A/R) | 2    |
| 42   | 235889      | STOP-CYL, 2 ROD X 5/8 (USED W/233870 HYD CYL)<br>(AFTER 06/07/2023 - 9, 10, 11 ALL CLAMP TYPES)<br>(11/01/2021 TO 06/07/2023 - 9, 10, 11 HYD A/R, RSB)                                    | 2    |
| 43   | 235892      | STOP-CYL, 2 ROD X 3-7/16 (USED W/233870 HYD CYL)<br>(AFTER 11/01/2021 - 11N ALL CLAMP TYPES)                                                                                              | 2    |
| 44   | 122709      | SCREW,SET,HXSKTCPPT 3/8-16X1/2 (AFTER 11/01/2021)                                                                                                                                         | 2    |
| 45   | 235887      | STOP-CYL, 2-1/2 ROD X 3-5/16 (USED W/233833 HYD CYL)<br>(AFTER 11/01/2021 - 15, 16 ALL CLAMP TYPES)                                                                                       | 2    |
| 46   | 233795      | STOP-CYLINDER,1-3/4 ROD,X2-1/4 (USED W/108331 HYD CYL)<br>(06/02/2021 TO 11/01/2021 - 7, 8 ALL CLAMP TYPES)                                                                               | 2    |
| 47   | 222011      | BUSHING-CYL STOP,1-3/4 X 1-3/8L (USED W/108331 HYD CYL)<br>(06/02/2021 TO 11/01/2021 - 9, 10, 11 HYD A/R, RSB)                                                                            | 2    |
| 48   | 233795      | STOP-CYLINDER,1-3/4 ROD,X2-1/4 (USED W/108331 HYD CYL)<br>(06/02/2021 TO 11/01/2021 - 9, 10, 11 SPRING A/R)                                                                               | 2    |

## Auto Reset Shank Clamp, Spring (AFT. 01/01/2024)

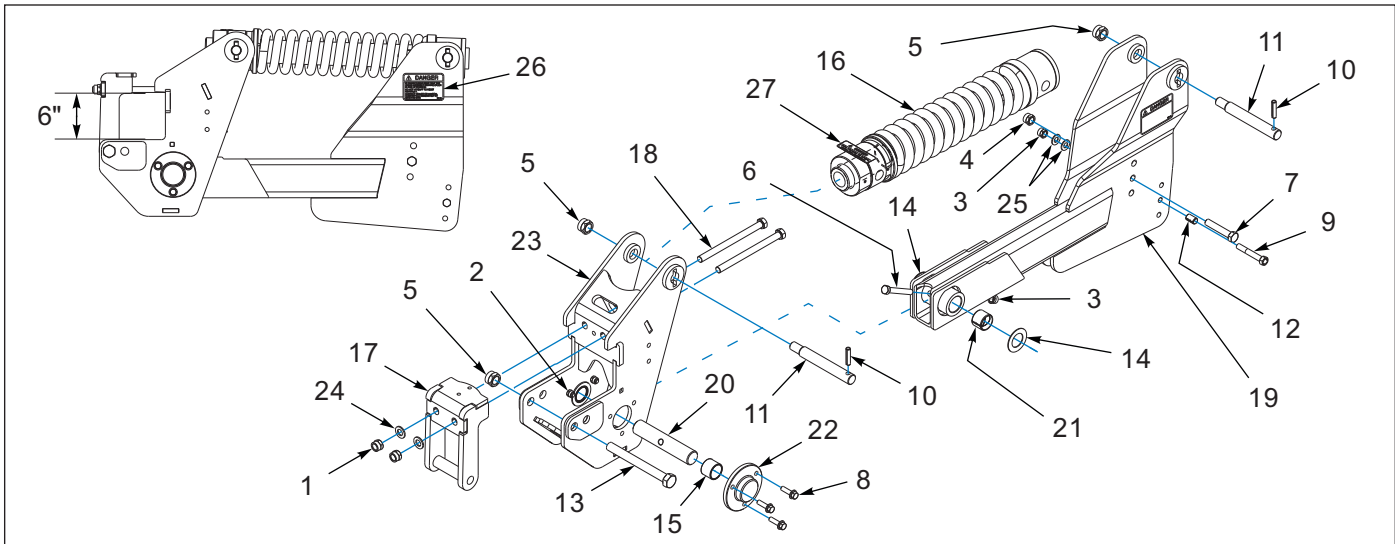


Figure 1-5: Auto Reset Shank Clamp, Spring (AFT. 01/01/2024)

## Auto Reset Shank Clamp, Spring (AFT. 01/01/2024)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                   | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------------------------------|------|
|      | 243130          | CLAMP-SHANK, ASM W/CHROME PIN (INCLUDES ITEMS 1-24)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010002-16 | NUT,3/4-16 HEX,SLFLKG, GRC                                                                                    | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                    | 6    |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                     | 2    |
| 4    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                     | 1    |
| 5    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                                   | 3    |
| 6    | 1-654-010059-14 | SCREW HX CP,5/8-11UNCX4-1/2G5                                                                                 | 1    |
| 7    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                                   | 1    |
| 8    | 243054          | SCREW FLG HD 1/2-13X1-3/4 GR8                                                                                 | 6    |
| 9    | 172829          | SCREW HX CP 5/8-11X4 GR8 <b>(REPLACE WITH 253721)</b>                                                         | 1    |
| 9    | 253721          | SCREW HEX CAP,5/8-11UNC-4,GR9 <b>(AFTER 01/20/2026)</b>                                                       | 1    |
| 10   | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                                  | 2    |
| 11   | 144457          | PIN, SHANK <b>(1-1/4 X 7-1/4)</b>                                                                             | 2    |
| 12   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                                 | 1    |
| 13   | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                                  | 1    |
| 14   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                                     | 2    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                                 | 2    |
| 16   | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                                     | 1    |
| 17   | 221412          | GATE-CLAMP WLDMT                                                                                              | 1    |
| 18   | 239516          | SCREW, HXCP 3/4-16UNFX10 GR8                                                                                  | 2    |
| 19   | 240314          | SHANK MOUNT, 1-1/4, WLDMT                                                                                     | 1    |
| 20   | 243129          | PIN, SHANK PIVOT NITRO <b>(9 X 1-3/4)</b>                                                                     | 1    |
| 21   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                                | 2    |
| 22   | 241980          | CAP, BEARING STEEL 1-3/4 PIN                                                                                  | 2    |
| 23   | 243128          | CLAMP, SHANK WLDMT                                                                                            | 1    |
| 24   | 622-3511-008    | WASHER, FLAT 3/4 MIL-CARB SAE                                                                                 | 2    |
| 25   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD                                                                                      | 2    |
| 26   | 207142          | DECAL, DANGER STUCK SHANK                                                                                     | 1    |
| 27   | 2-573-010469    | DECAL, DANGER SPRING                                                                                          | 1    |

## Auto Reset Shank Clamp, Spring - Setback (AFT. 01/01/2024)

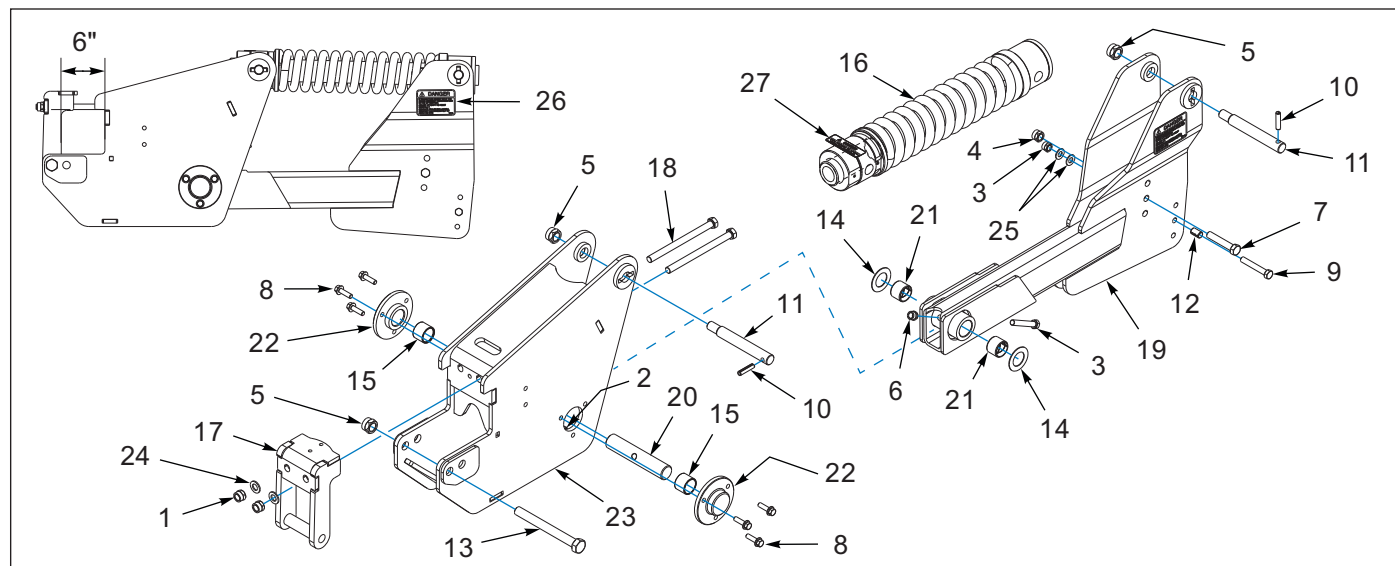


Figure 1-6: 2512 Auto Reset Shank Clamp, Spring - Setback (AFTER 01/01/2024)

## Auto Reset Shank Clamp, Spring - Setback (AFT. 01/01/2024)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                               | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------|------|
|      | 242821          | CLAMP-SHANK, SETBACK, ASM (INCLUDES ITEMS 1-23)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010002-16 | NUT,3/4-16 HEX,SLFLKG, GRC                                                                                | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                | 6    |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                 | 2    |
| 4    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                 | 1    |
| 5    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                               | 3    |
| 6    | 1-654-010059-13 | SCREW HEX CAP 5/8-11X4UNC GR5                                                                             | 1    |
| 7    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                               | 1    |
| 8    | 243054          | SCREW FLNG HD 1/2-13X1-3/4 GR8                                                                            | 6    |
| 9    | 172829          | SCREW HX CP 5/8-11X4 GR8                                                                                  | 1    |
| 10   | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                              | 2    |
| 11   | 144457          | PIN, SHANK (1-1/4 X 7-1/4)                                                                                | 2    |
| 12   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                             | 1    |
| 13   | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                              | 1    |
| 14   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                                 | 2    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                             | 2    |
| 16   | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                                 | 1    |
| 17   | 221412          | GATE-CLAMP WLDMT                                                                                          | 1    |
| 18   | 239516          | SCREW, HXCP 3/4-16UNFX10 GR8                                                                              | 2    |
| 19   | 240314          | SHANK MOUNT, 1-1/4, WLDMT                                                                                 | 1    |
| 20   | 243129          | PIN, SHANK PIVOT NITRO (1-3/4 DIA)                                                                        | 1    |
| 21   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                            | 2    |
| 22   | 239522          | CAP, CASTING MACHINED                                                                                     | 2    |
| 23   | 242817          | CLAMP-SHANK, SETBACK, WLDMNT                                                                              | 1    |
| 24   | 622-3511-008    | WASHER, FLAT 3/4 MIL-CARB SAE                                                                             | 2    |
| 25   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD                                                                                  | 2    |
| 26   | 207142          | DECAL, DANGER STUCK SHANK                                                                                 | 1    |
| 27   | 2-573-010469    | DECAL, DANGER SPRING                                                                                      | 1    |

## Auto Reset Shank Clamp, Spring (01/16/23 TO 01/01/24)

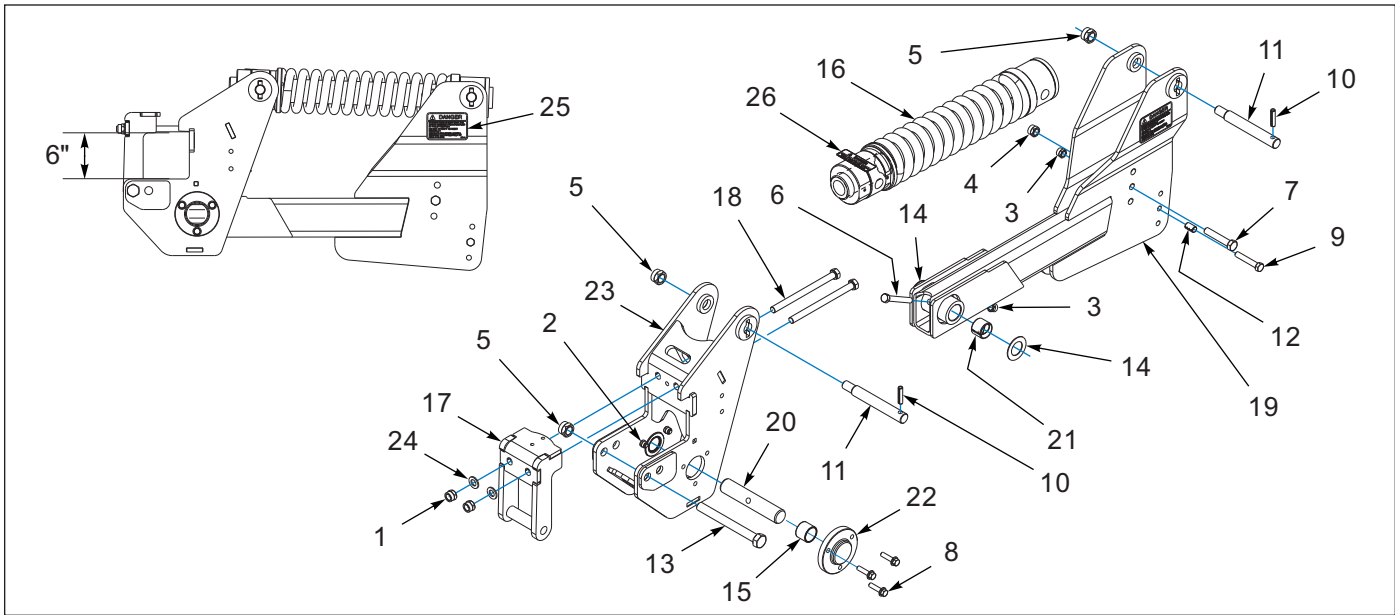


Figure 1-7: Auto Reset Shank Clamp, Spring (01/16/2023 TO 01/01/2024)

## Auto Reset Shank Clamp, Spring (01/16/23 TO 01/01/24)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                   | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------------------------------|------|
|      | 243130          | CLAMP-SHANK, ASM W/CHROME PIN (INCLUDES ITEMS 1-24)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010002-16 | NUT,3/4-16 HEX,SLFLKG, GRC                                                                                    | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                    | 6    |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                     | 2    |
| 4    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                     | 1    |
| 5    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                                   | 3    |
| 6    | 1-654-010059-14 | SCREW HX CP,5/8-11UNCX4-1/2G5                                                                                 | 1    |
| 7    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                                   | 1    |
| 8    | 1-655-010001-05 | SCREW,FLG HD 1/2-13X2 GR8 ZP                                                                                  | 6    |
| 9    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8                                                                                 | 1    |
| 10   | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                                  | 2    |
| 11   | 144457          | PIN, SHANK (1-1/4 X 7-1/4)                                                                                    | 2    |
| 12   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                                 | 1    |
| 13   | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                                  | 1    |
| 14   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                                     | 2    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                                 | 2    |
| 16   | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                                     | 1    |
| 17   | 221412          | GATE-CLAMP WLDMT                                                                                              | 1    |
| 18   | 239516          | SCREW, HXCP 3/4-16UNFX10 GR8                                                                                  | 2    |
| 19   | 240314          | SHANK MOUNT, 1-1/4, WLDMT                                                                                     | 1    |
| 20   | 240317          | PIN, SHANK PIVOT 1-3/4 DIA                                                                                    | 1    |
| 21   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                                | 2    |
| 22   | 241980          | CAP, BEARING STEEL 1-3/4 PIN                                                                                  | 2    |
| 23   | 243128          | CLAMP, SHANK WLDMT                                                                                            | 1    |
| 24   | 622-3511-008    | WASHER, FLAT 3/4 MIL-CARB SAE                                                                                 | 2    |
| 25   | 207142          | DECAL, DANGER STUCK SHANK                                                                                     | 1    |
| 26   | 2-573-010469    | DECAL, DANGER SPRING                                                                                          | 1    |

## Auto Reset Shank Clamp, Spring - Setback (01/16/23 TO 01/01/24)

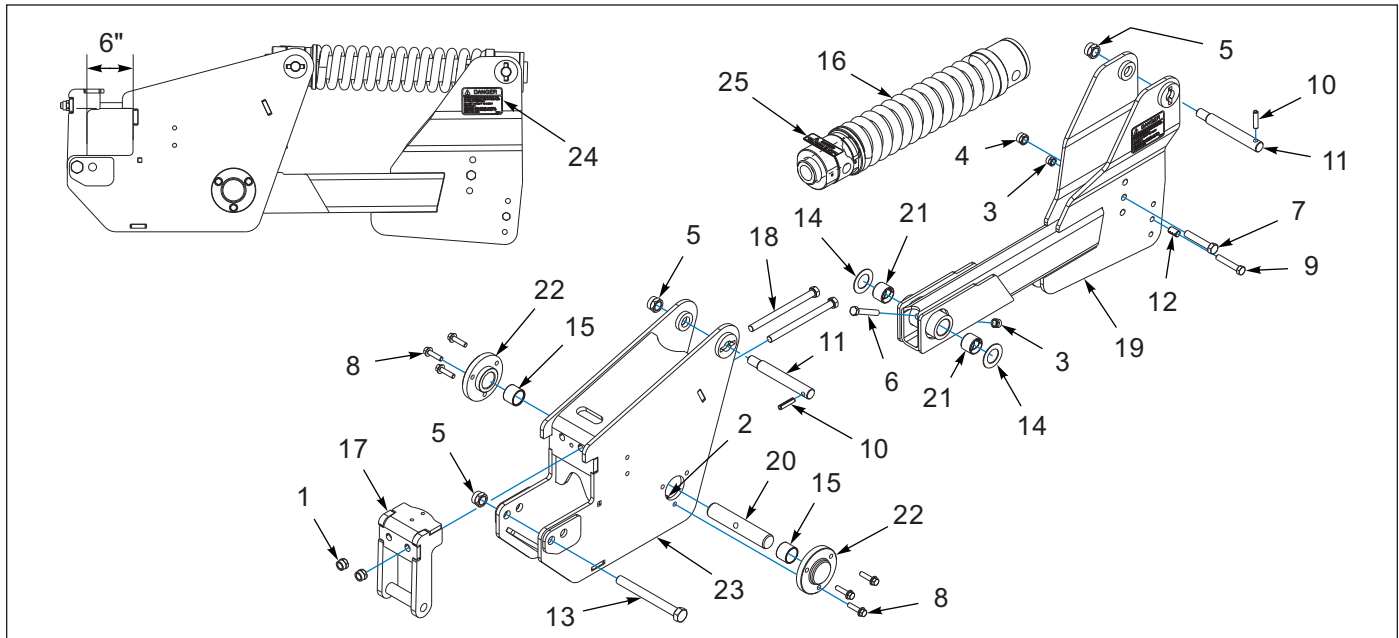


Figure 1-8: 2512 Auto Reset Shank Clamp, Spring - Setback (01/16/2023 TO 01/01/2024)

## Auto Reset Shank Clamp, Spring - Setback (01/16/23 TO 01/01/24)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                               | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------|------|
|      | 242821          | CLAMP-SHANK, SETBACK, ASM (INCLUDES ITEMS 1-23)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010002-16 | NUT,3/4-16 HEX,SLFLKG, GRC                                                                                | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                | 6    |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                 | 2    |
| 4    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                 | 1    |
| 5    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                               | 3    |
| 6    | 1-654-010059-13 | SCREW HEX CAP 5/8-11X4UNC GR5                                                                             | 1    |
| 7    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                               | 1    |
| 8    | 249400          | OBS SCREW FLNG HD 1/2-13X1-3/4 GR8 ZP                                                                     | 6    |
| 9    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8                                                                             | 1    |
| 10   | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                              | 2    |
| 11   | 144457          | PIN, SHANK (1-1/4 X 7-1/4)                                                                                | 2    |
| 12   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                             | 1    |
| 13   | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                              | 1    |
| 14   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                                 | 2    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                             | 2    |
| 16   | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                                 | 1    |
| 17   | 221412          | GATE-CLAMP WLDMT                                                                                          | 1    |
| 18   | 239516          | SCREW, HXCP 3/4-16UNFX10 GR8                                                                              | 2    |
| 19   | 240314          | SHANK MOUNT, 1-1/4, WLDMT                                                                                 | 1    |
| 20   | 243129          | PIN, SHANK PIVOT NITRO (1-3/4 DIA)                                                                        | 1    |
| 21   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                            | 2    |
| 22   | 239522          | CAP, CASTING MACHINED                                                                                     | 2    |
| 23   | 242817          | CLAMP-SHANK, SETBACK, WLDMNT                                                                              | 1    |
| 24   | 207142          | DECAL, DANGER STUCK SHANK                                                                                 | 1    |
| 25   | 2-573-010469    | DECAL, DANGER SPRING                                                                                      | 1    |

## FRAMES

## Auto Reset Shank Clamp, Spring (BEF. 01/16/2023)

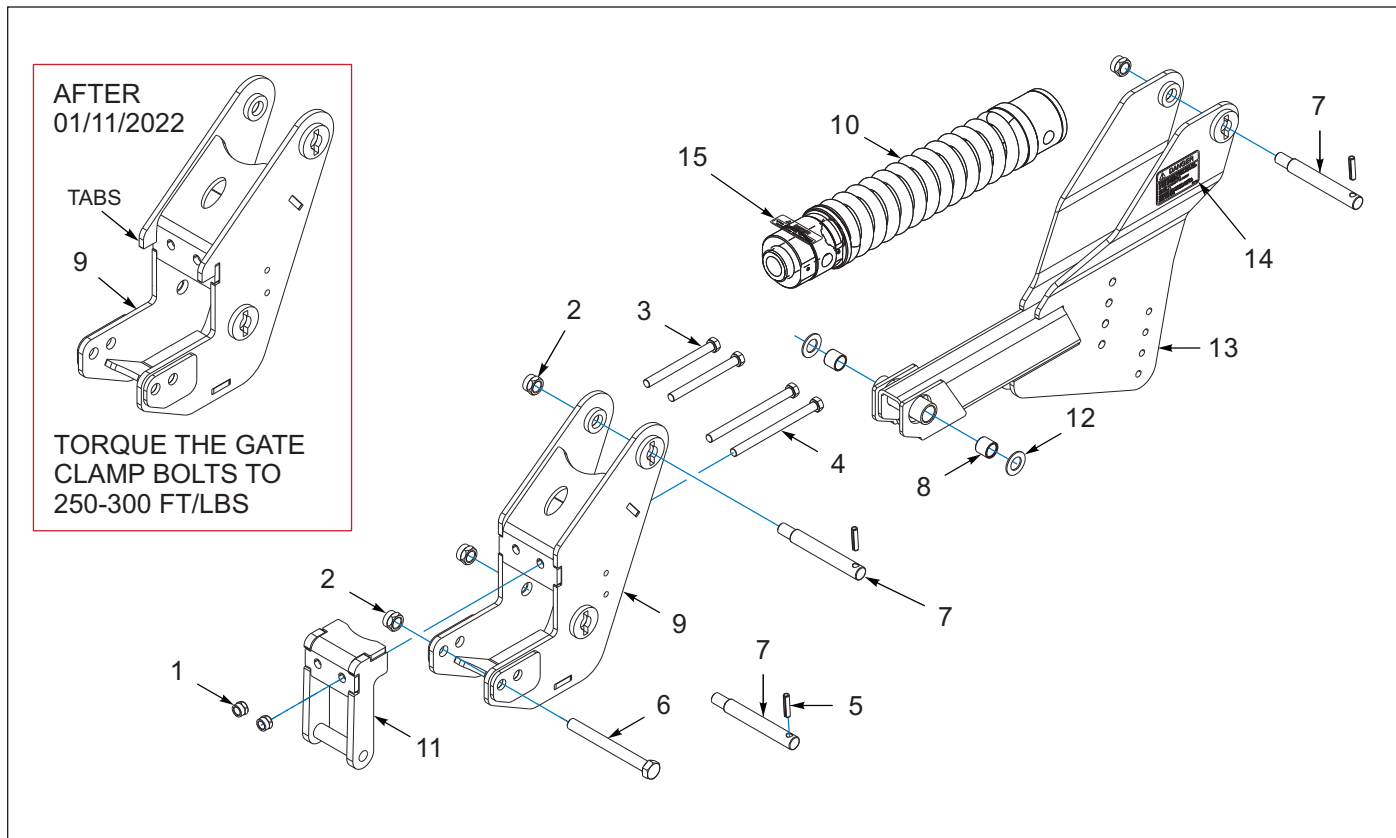


Figure 1-9: Auto Reset Shank Clamp, Spring (BEFORE 01/16/2023)

## Auto Reset Shank Clamp, Spring (BEF. 01/16/2023)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                          | QTY.         |              |
|------|-----------------|------------------------------------------------------------------------------------------------------|--------------|--------------|
|      |                 |                                                                                                      | 6X4 Tool Bar | 6X6 Tool Bar |
|      | 214397          | CLAMP-SHANK, ASSY (INCLUDES ITEMS 1-13)<br>(FOR CYL. STOP USED W/CLAMP TYPE,<br>SEE "FOLDING FRAME") | 1            | 1            |
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                            | 2            | 2            |
| 2    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                          | 4            | 4            |
| 3    | 162249          | SCREW, HX CP,3/4-10UNCX8 GR8 (AFT. 01/11/2022)                                                       | 2            | --           |
| 3    | 1-654-010061-21 | SCREW,HXCP 3/4-10UNCX10GR5 (BEF. 01/11/2022)                                                         | 2            | --           |
| 4    | 1-654-010032-25 | SCREW HX CP 3/4-10X10 GR8 (AFT. 01/11/2022)                                                          | --           | 2            |
| 4    | 1-654-010061-25 | SCREW,HXCP 3/4-10UNCX10GR5 (BEF. 01/11/2022)                                                         | --           | 2            |
| 5    | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                         | 3            | 3            |
| 6    | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                         | 1            | 1            |
| 7    | 144457          | PIN, SHANK (1-1/4 X 7-1/4) (AFTER 09/01/2021)                                                        | 3            | 3            |
| 7    | 210887          | PIN, 1-1/4 X 7-1/4, STEP (BEFORE 09/01/2021)                                                         | 3            | 3            |
| 8    | 217196          | BEARING-HEF,1.5 X 1.25 X 1.3                                                                         | 2            | 2            |
| 9    | 217969          | CLAMP-SHANK, 6X6 TOOLBAR,WLDMT                                                                       | 1            | 1            |
| 10   | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                            | 1            | 1            |
| 11   | 221412          | GATE-CLAMP WLDMT                                                                                     | 1            | 1            |
| 12   | 221428          | WASHER-2-1/4OD,1-1/4ID,1/8UHMW                                                                       | 2            | 2            |
| 13   | 221433          | CLAMP-SHANK, 1-1/4, WLDMT                                                                            | 1            | 1            |
| 14   | 207142          | DECAL, DANGER STUCK SHANK                                                                            | 1            | 1            |
| 15   | 2-573-010469    | DECAL, DANGER SPRING                                                                                 | 1            | 1            |

## Auto Reset Shank Clamp, Spring - Setback (BEF. 01/16/2023)

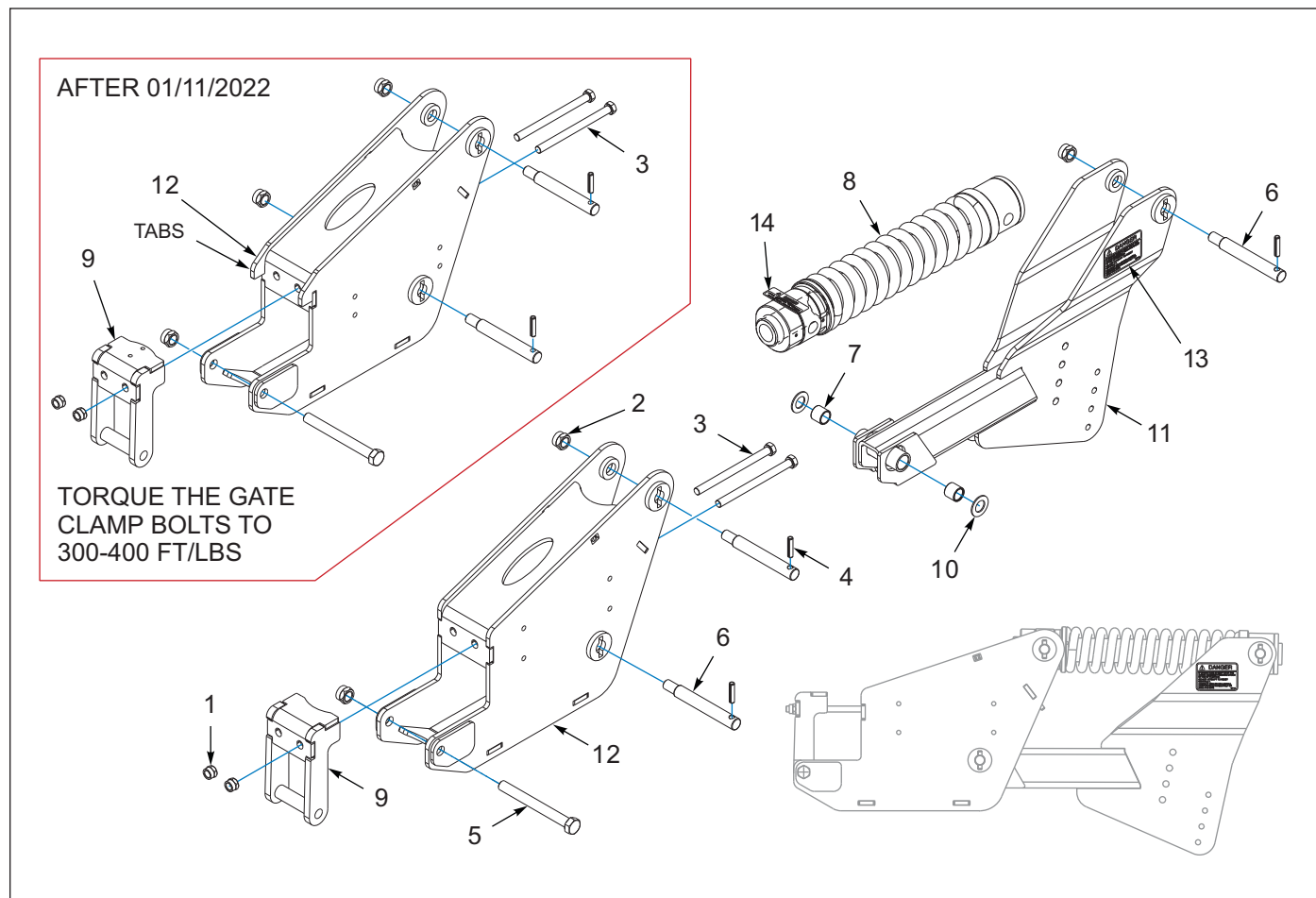


Figure 1-10: 2512 Auto Reset Shank Clamp, Spring - Setback (BEF. 01/16/2023)

## Auto Reset Shank Clamp, Spring - Setback (BEF. 01/16/2023)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                | QTY. |
|------|-----------------|------------------------------------------------------------------------------------------------------------|------|
|      | 221445          | CLAMP-SHANK, SETBACK, ASSY (INCLUDES ITEMS 1-12)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                  | 2    |
| 2    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                                | 4    |
| 3    | 1-654-010032-25 | SCREW HX CP 3/4-10X10 GR8 (AFTER 01/11/2022)                                                               | 2    |
| 3    | 1-654-010061-25 | SCREW,HX CP 3/4-10UNCX10 GR5 (BEFORE 01/11/2022)                                                           | 2    |
| 4    | 141251          | SPRING PIN,SLOTTED 1/2X2-1/4                                                                               | 3    |
| 5    | 172581          | SCREW HEX CAP 1-8UNCX9.5 GR8                                                                               | 1    |
| 6    | 144457          | PIN, SHANK (1-1/4 X 7-1/4) (AFTER 09/01/2021)                                                              | 3    |
| 6    | 210887          | PIN, 1-1/4 X 7-1/4, STEP (BEFORE 09/01/2021)                                                               | 3    |
| 7    | 217196          | BEARING-HEF,1.5 X 1.25 X 1.3                                                                               | 2    |
| 8    | 218785          | SPRING-CLAMP, SHANK, ASSY                                                                                  | 1    |
| 9    | 221412          | GATE-CLAMP WLDMT                                                                                           | 1    |
| 10   | 221428          | WASHER-2-1/4OD,1-1/4ID,1/8UHMW                                                                             | 2    |
| 11   | 221433          | CLAMP-SHANK, 1-1/4, WLDMT                                                                                  | 1    |
| 12   | 221441          | CLAMP-SHANK, SETBACK, WLDMT                                                                                | 1    |
| 13   | 207142          | DECAL, DANGER STUCK SHANK                                                                                  | 1    |
| 14   | 2-573-010469    | DECAL, DANGER SPRING                                                                                       | 1    |

## Auto Reset Shank Clamp, Hydraulic (AFT. 02/07/2025)

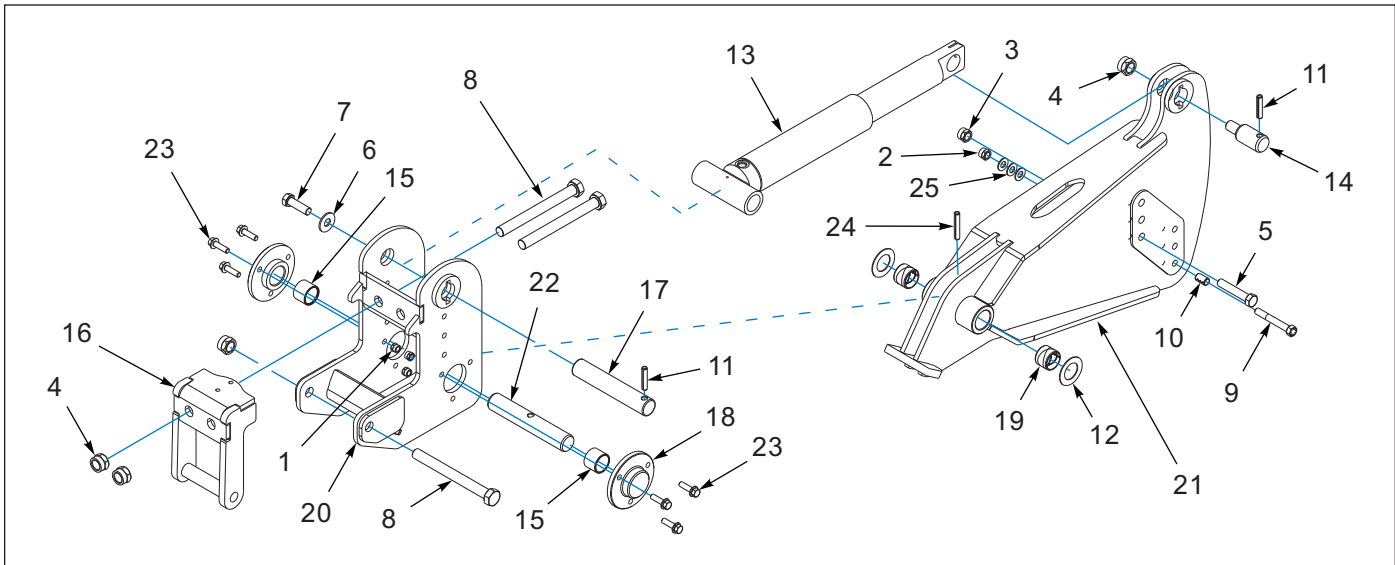


Figure 1-11: Auto Reset Shank Clamp, Hydraulic (AFT. 02/07/2025)

## Auto Reset Shank Clamp, Hydraulic (AFT. 02/07/2025)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                           | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------------------------|------|
|      | 242824          | CLAMP-SHANK, HYD, ASM (INCLUDES ITEMS 1-24)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                           | 6    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                             | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                             | 1    |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                           | 4    |
| 5    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                           | 1    |
| 6    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                                              | 1    |
| 7    | 104483          | SCREW 3/4-10X2-1/2 HXCP ZPGR8                                                                         | 1    |
| 8    | 134964          | SCREW,HEX CAP,1-8UNCX10, GR8                                                                          | 3    |
| 9    | 253822          | SCREW HEX CAP,5/8-11X4-1/2,GR9 (AFTER 01/20/2026)                                                     | 1    |
| 9    | 122962          | SCREW, HEX CP 5/8-11X4-1/2GR8 (06/2025 TO 01/2026)                                                    | 1    |
| 9    | 172829          | SCREW HX CP 5/8-11X4 GR8 (BEFORE 06/05/2025)                                                          | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                         | 1    |
| 11   | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                                          | 2    |
| 12   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                             | 2    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)                                                            | 1    |
| 14   | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                                             | 1    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                         | 2    |
| 16   | 218755          | GATE-CLAMP WLDMT                                                                                      | 1    |
| 17   | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9                                                                           | 1    |
| 18   | 239522          | CAP, CASTING MACHINED                                                                                 | 2    |
| 19   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                        | 2    |
| 20   | 242823          | MOUNT-SHANK CLAMP, WELDMENT                                                                           | 1    |
| 21   | 242825          | CLAMP-SHANK, 1-1/4, WELDMENT                                                                          | 1    |
| 22   | 242827          | PIN-PIVOT, SHANK, 1-3/4 DIA                                                                           | 1    |
| 23   | 243054          | SCREW FLG HD 1/2-13X1-3/4 GR8                                                                         | 6    |
| 24   | 5D979           | ROLL PIN 1/2 X 3                                                                                      | 1    |
| 25   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD (AFTER 06/05/2025)                                                           | 3    |

## Auto Reset Shank Clamp, Hydraulic - Setback (AFT. 02/07/2025)

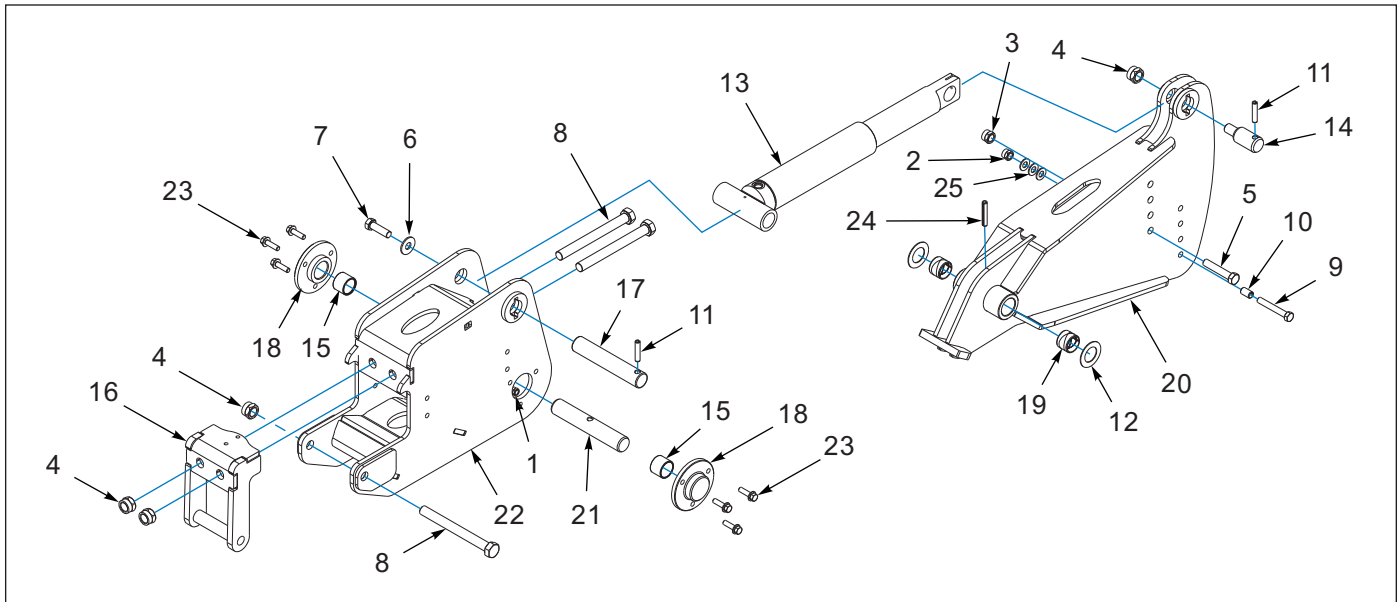


Figure 1-12: Auto Reset Shank Clamp, Hydraulic - Setback (AFT. 02/07/2025)

## Auto Reset Shank Clamp, Hydraulic - Setback (AFT. 02/07/2025)

| ITEM | PART NUMBER     | DESCRIPTION                                                                         | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------|------|
|      | 242850          | CLAMP-SHANK, SEBTACK, ASM<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                          | 6    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                           | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                           | 1    |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                         | 4    |
| 5    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                         | 1    |
| 6    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                            | 1    |
| 7    | 104483          | SCREW 3/4-10X2-1/2 HXCP ZPGR8                                                       | 1    |
| 8    | 134964          | SCREW,HEX CAP,1-8UNCX10, GR8                                                        | 3    |
| 9    | 122962          | SCREW, HEX CP 5/8-11X4-1/2GR8 (AFTER 06/05/2025)                                    | 1    |
| 9    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8 (BEFORE 06/05/2025)                                   | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                       | 1    |
| 11   | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                        | 2    |
| 12   | 195566          | WASHER THRUST 1-3/4 14 GA                                                           | 2    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)                                          | 1    |
| 14   | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                           | 1    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                       | 2    |
| 16   | 218755          | GATE-CLAMP WLDMT                                                                    | 1    |
| 17   | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9                                                         | 1    |
| 18   | 239522          | CAP, CASTING MACHINED                                                               | 2    |
| 19   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                      | 2    |
| 20   | 242825          | CLAMP-SHANK, 1-1/4, WELDMENT                                                        | 1    |
| 21   | 242827          | PIN-PIVOT, SHANK, 1-3/4 DIA                                                         | 1    |
| 22   | 242849          | MOUNT-SHANK, CLAMP, WELDMENT                                                        | 1    |
| 23   | 243054          | SCREW FLG HD 1/2-13X1-3/4 GR8                                                       | 6    |
| 24   | 5D979           | ROLL PIN 1/2 X 3                                                                    | 1    |
| 25   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD (AFTER 06/05/2025)                                         | 3    |

## Auto Reset Shank Clamp, Hydraulic (12/12/23 TO 02/07/25)

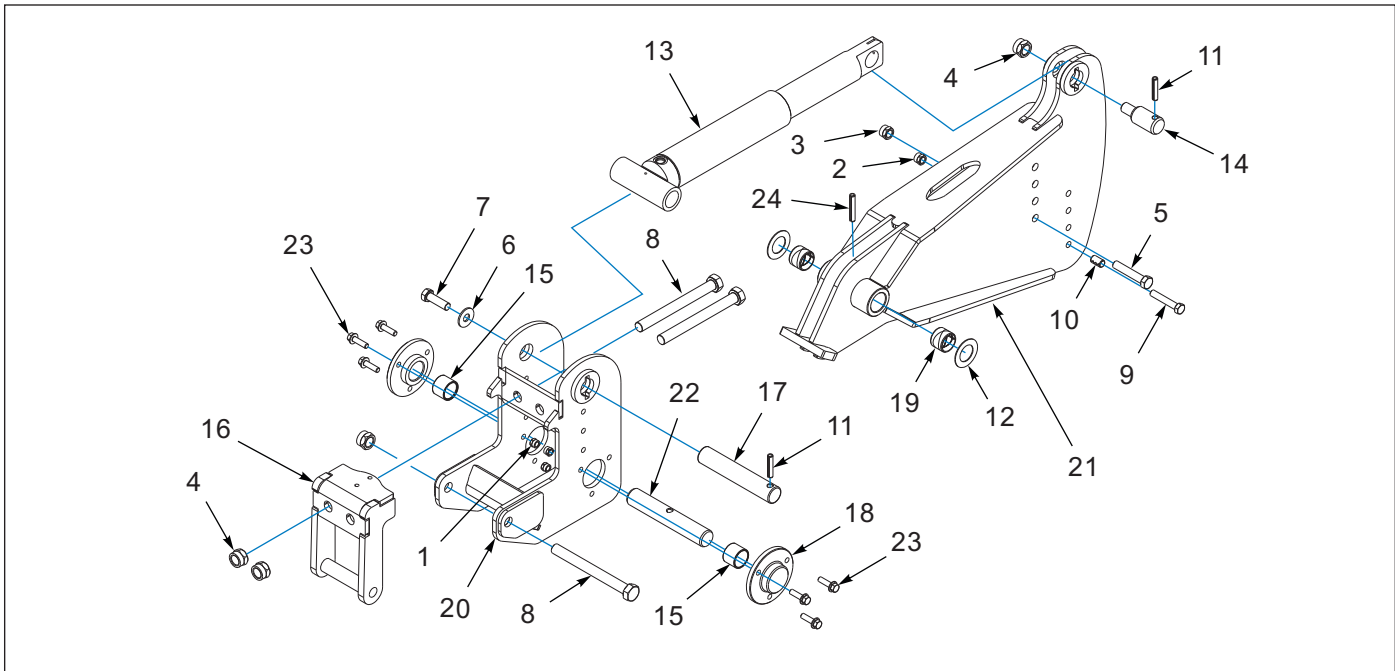


Figure 1-13: Auto Reset Shank Clamp, Hydraulic (12/12/23 TO 02/07/25)

## Auto Reset Shank Clamp, Hydraulic (12/12/23 TO 02/07/25)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                       | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------------------|------|
|      | 242824          | CLAMP-SHANK, ASSY (INCLUDES ITEMS 1-24)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                       | 6    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                         | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                         | 1    |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                       | 4    |
| 5    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                       | 1    |
| 6    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                                          | 1    |
| 7    | 104483          | SCREW 3/4-10X2-1/2 HXCP ZPGR8                                                                     | 1    |
| 8    | 134964          | SCREW,HEX CAP,1-8UNCX10, GR8                                                                      | 3    |
| 9    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8                                                                     | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                     | 1    |
| 11   | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                                      | 2    |
| 12   | 195566          | WASHER THRUST 1-3/4 14 GA                                                                         | 2    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)                                                        | 1    |
| 14   | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                                         | 1    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                                     | 2    |
| 16   | 218755          | GATE-CLAMP WLDMT                                                                                  | 1    |
| 17   | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9                                                                       | 1    |
| 18   | 239522          | CAP, CASTING MACHINED                                                                             | 2    |
| 19   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                                    | 2    |
| 20   | 242823          | MOUNT-SHANK CLAMP, WELDMENT                                                                       | 1    |
| 21   | 242825          | CLAMP-SHANK, 1-1/4, WELDMENT                                                                      | 1    |
| 22   | 242827          | PIN-PIVOT, SHANK, 1-3/4 DIA                                                                       | 1    |
| 23   | 243054          | SCREW FLG HD 1/2-13X1-3/4 GR8                                                                     | 6    |
| 24   | 5D979           | ROLL PIN 1/2 X 3                                                                                  | 1    |

## Auto Reset Shank Clamp, Hydraulic - Setback (12/12/23 TO 02/07/25)

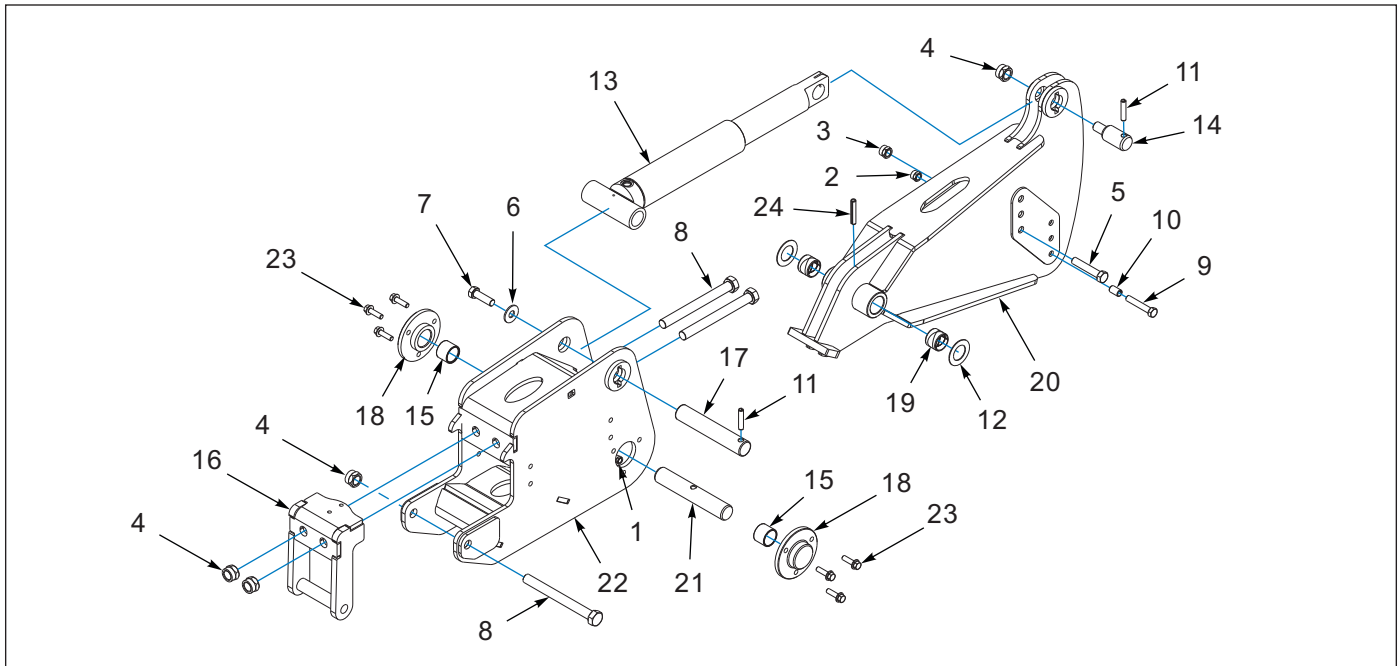


Figure 1-14: Auto Reset Shank Clamp, Hydraulic - Setback (12/12/23 TO 02/07/25)

## Auto Reset Shank Clamp, Hydraulic - Setback (12/12/23 TO 02/07/25)

| ITEM | PART NUMBER     | DESCRIPTION                                                                         | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------|------|
|      | 242850          | CLAMP-SHANK, SEBTACK, ASM<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                          | 6    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                           | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                           | 1    |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                         | 4    |
| 5    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                         | 1    |
| 6    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                            | 1    |
| 7    | 104483          | SCREW 3/4-10X2-1/2 HXCP ZPGR8                                                       | 1    |
| 8    | 134964          | SCREW,HEX CAP,1-8UNCX10, GR8                                                        | 3    |
| 9    | 172829          | SCREW HX CP 5/8-11X4 GR8                                                            | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                       | 1    |
| 11   | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                        | 2    |
| 12   | 195566          | WASHER THRUST 1-3/4 14 GA                                                           | 2    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)                                          | 1    |
| 14   | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                           | 1    |
| 15   | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                       | 2    |
| 16   | 218755          | GATE-CLAMP WLDMT                                                                    | 1    |
| 17   | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9                                                         | 1    |
| 18   | 239522          | CAP, CASTING MACHINED                                                               | 2    |
| 19   | 240342          | BUSHING,SPRG 2 X 1-3/4 X 1-1/2                                                      | 2    |
| 20   | 242825          | CLAMP-SHANK, 1-1/4, WELDMENT                                                        | 1    |
| 21   | 242827          | PIN-PIVOT, SHANK, 1-3/4 DIA                                                         | 1    |
| 22   | 242849          | MOUNT-SHANK, CLAMP, WELDMENT                                                        | 1    |
| 23   | 243054          | SCREW FLG HD 1/2-13X1-3/4 GR8                                                       | 6    |
| 24   | 5D979           | ROLL PIN 1/2 X 3                                                                    | 1    |

## Auto Reset Shank Clamp, Hydraulic (BEF. 12/12/2023)

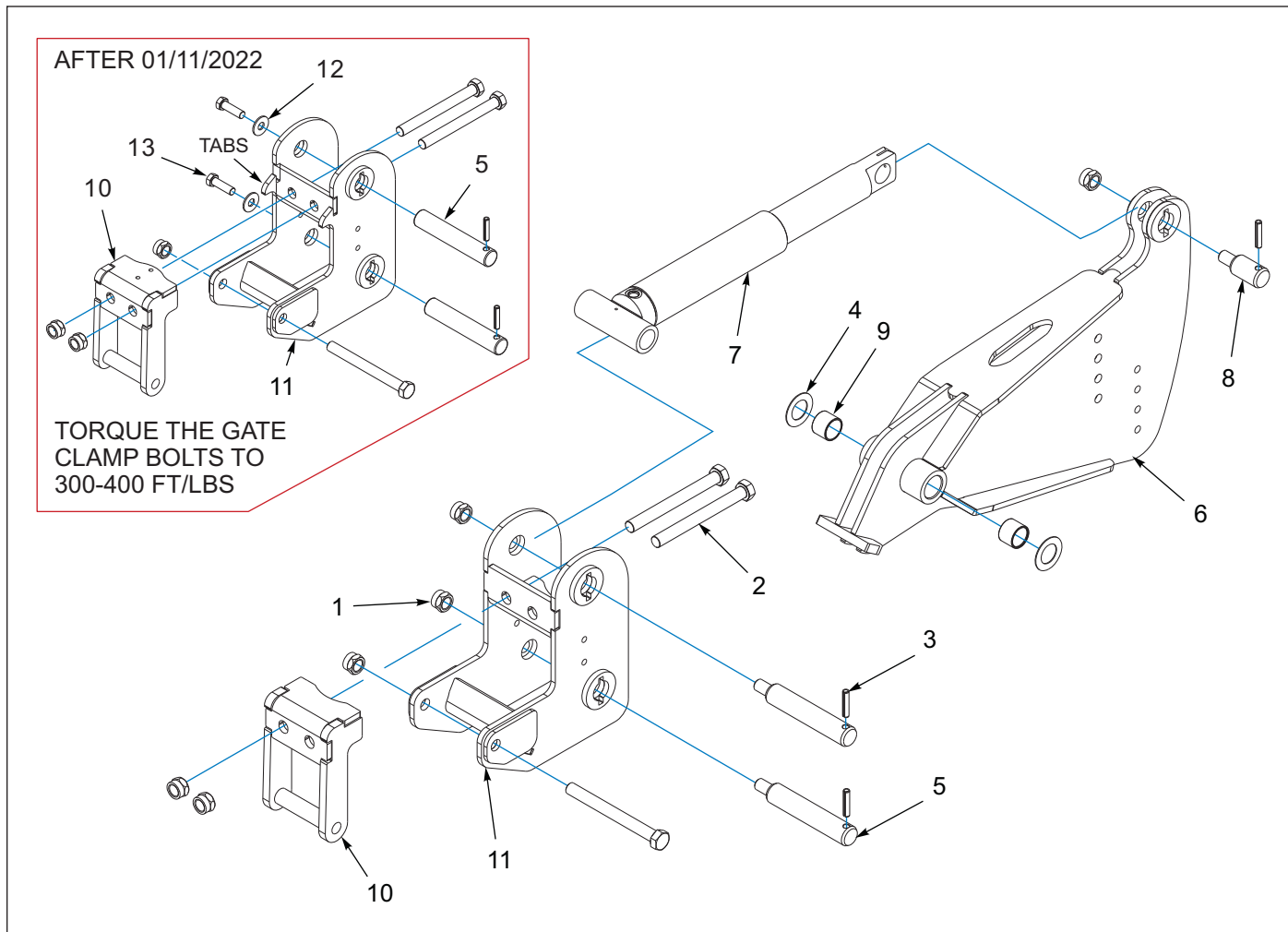


Figure 1-15: Auto Reset Shank Clamp, Hydraulic (BEF. 12/12/2023)

## Auto Reset Shank Clamp, Hydraulic (BEF. 12/12/2023)

| ITEM | PART NUMBER     | DESCRIPTION                                                                 | QTY. |
|------|-----------------|-----------------------------------------------------------------------------|------|
|      | 209370          | CLAMP-SHANK, ASSY<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB (BEFORE 01/11/2022, QTY=6)                      | 4    |
| 2    | 134964          | SCREW, HEX CAP, 1-8UNCX10, GR8                                              | 3    |
| 3    | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                | 3    |
| 4    | 195566          | WASHER THRUST 1-3/4 14 GA                                                   | 2    |
| 5    | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9 (AFTER 01/11/2022)                              | 2    |
| 5    | 209252          | PIN, 1-3/4 X 8-1/4, STEP (BEFORE 01/11/2022)                                | 2    |
| 6    | 209367          | CLAMP-SHANK 1-1/4 WLDMT                                                     | 1    |
| 7    | 209372          | CYLINDER-SA, 3 X 9-1/2 DISP (SEE PAGE 4-22)                                 | 1    |
| 8    | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                   | 1    |
| 9    | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                               | 2    |
| 10   | 218755          | GATE-CLAMP WLDMT                                                            | 1    |
| 11   | 221434          | MOUNT-SHANK CLAMP, WELDMENT                                                 | 1    |
| 12   | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD (AFTER 01/11/2022)                                 | 2    |
| 13   | 104483          | SCREW 3/4-10X2-1/2 HXCP ZPGR8 (AFTER 01/11/2022)                            | 2    |

## Auto Reset Shank Clamp, Hydraulic - Setback (BEF. 12/12/2023)

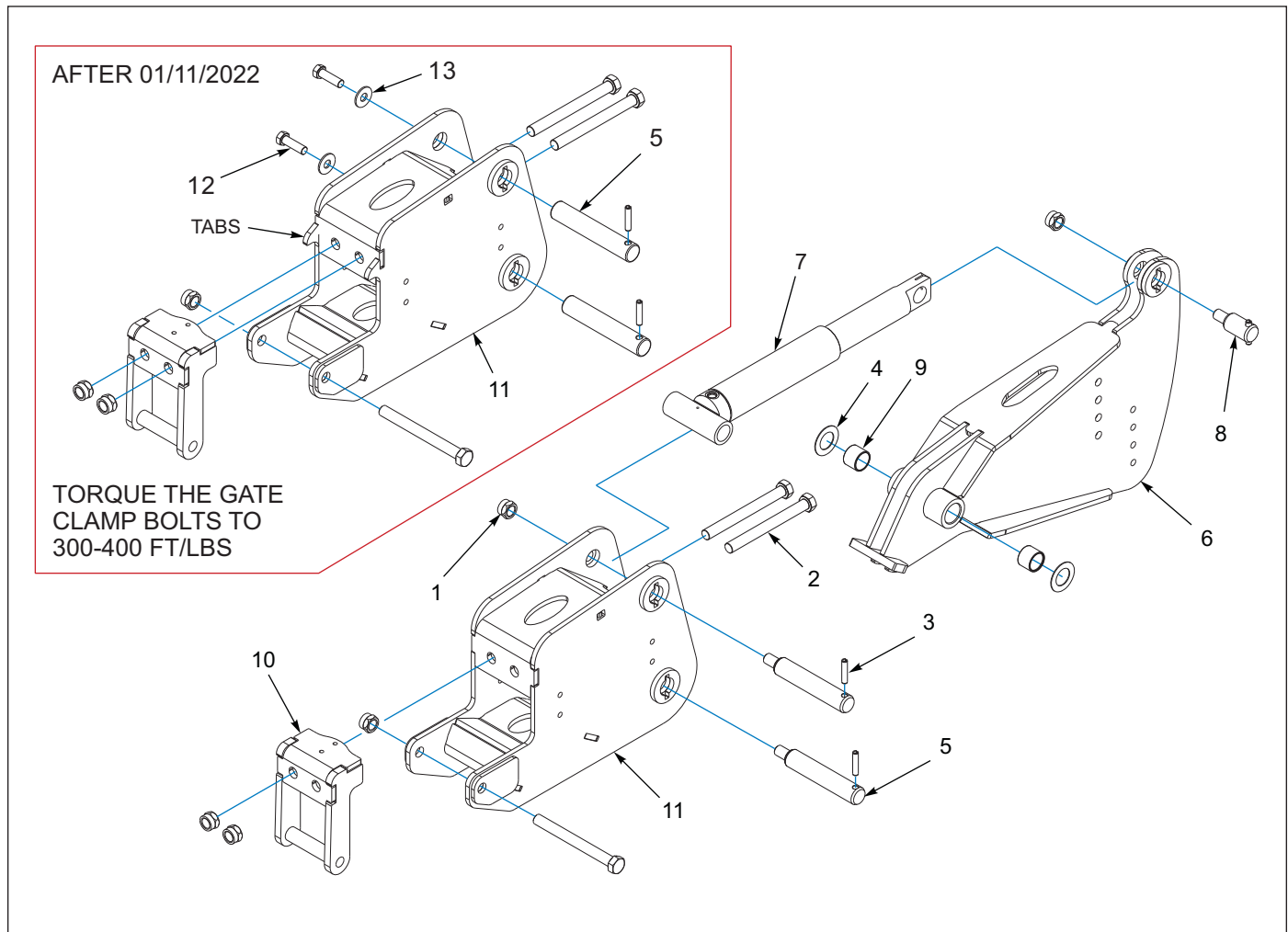


Figure 1-16: Auto Reset Shank Clamp, Hydraulic - Setback (BEF. 12/12/2023)

## Auto Reset Shank Clamp, Hydraulic - Setback (BEF. 12/12/2023)

| ITEM | PART NUMBER     | DESCRIPTION                                                                          | QTY. |
|------|-----------------|--------------------------------------------------------------------------------------|------|
|      | 214375          | CLAMP-SHANK, SETBACK, ASSY<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB (BEFORE 01/11/2022, QTY=6)                               | 4    |
| 2    | 134964          | SCREW, HEX CAP, 1-8UNCX10, GR8                                                       | 3    |
| 3    | 172802          | PIN SPRING SLOTTED 1/2X2-1/2                                                         | 3    |
| 4    | 195566          | WASHER THRUST 1-3/4 14 GA                                                            | 2    |
| 5    | 239243          | PIN-PIVOT, SHANK, 1-3/4 X 9 (AFTER 01/11/2022)                                       | 2    |
| 5    | 209252          | PIN, 1-3/4 X 8-1/4, STEP (BEFORE 01/11/2022)                                         | 2    |
| 6    | 209367          | CLAMP-SHANK 1-1/4 WLDMT                                                              | 1    |
| 7    | 209372          | CYLINDER-SA, 3 X 9-1/2 DISP (SEE PAGE 4-22)                                          | 1    |
| 8    | 210874          | PIN, 1-3/4 X 2-5/16, STEP                                                            | 1    |
| 9    | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                                                        | 2    |
| 10   | 218755          | GATE-CLAMP WLDMT                                                                     | 1    |
| 11   | 221438          | MOUNT-SHANK CLAMP, WLDMT (SETBACK)                                                   | 1    |
| 12   | 104483          | SCREW 3/4-10X2-1/2 HXCP ZP8 (AFTER 01/11/2022)                                       | 2    |
| 13   | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD (AFTER 01/11/2022)                                          | 2    |

## RSB Shank Clamp Assembly (Rigid Shear Bolt)

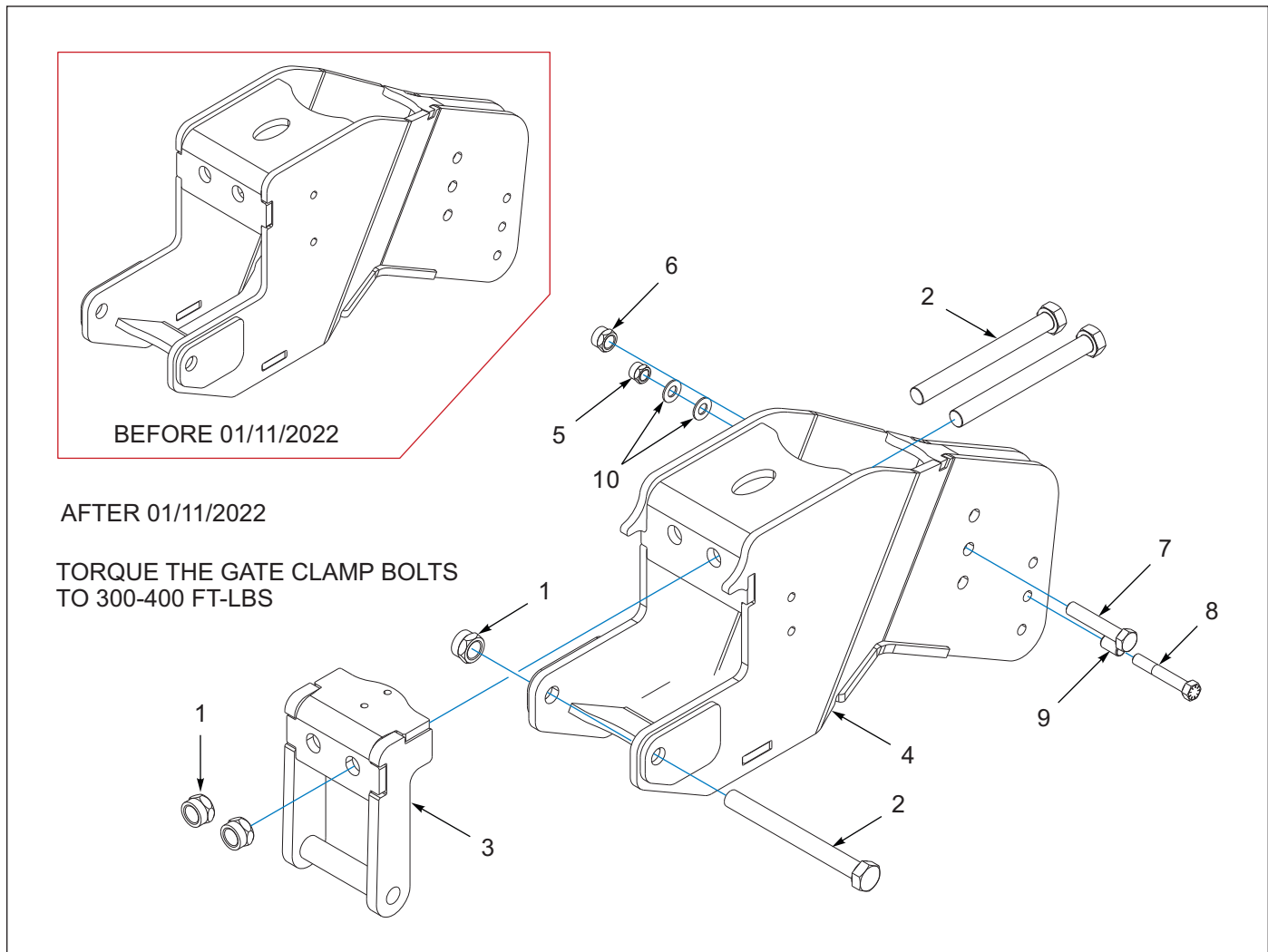


Figure 1-17: RSB Shank Clamp Assembly (Rigid Shear Bolt)

## RSB Shank Clamp Assembly (Rigid Shear Bolt)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                               | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------------------------------------------|------|
|      | 218760          | CLAMP-SHANK,RIGID, ASSY<br>(ITEMS 5-9, ADDED TO ASM 04/12/2024)<br>(FOR CYL. STOP USED W/CLAMP TYPE, SEE "FOLDING FRAME") | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                                                               | 3    |
| 2    | 134964          | SCREW,HEX CAP,1-8UNCX10, GR8                                                                                              | 3    |
| 3    | 218755          | GATE-CLAMP WLDMT                                                                                                          | 1    |
| 4    | 218757          | CLAMP-SHANK,RIGID,WLDMT                                                                                                   | 1    |
| 5    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                                 | 1    |
| 6    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                                                 | 1    |
| 7    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5                                                                                               | 1    |
| 8    | 253721          | SCREW HEX CAP,5/8-11UNC-4,GR9 (AFTER 01/20/2026)                                                                          | 1    |
| 8    | 172829          | SCREW HX CP 5/8-11X4 GR8 (06/2025 TO 01/2026)                                                                             | 1    |
| 8    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8 (BEFORE 06/05/2025)                                                                         | 1    |
| 9    | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4                                                                                             | 1    |
| 10   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD (06/2025 TO 01/2026, QTY=3)                                                                      | 2    |

## Jack Stand and Wing Rest (AFTER 06/07/2023)

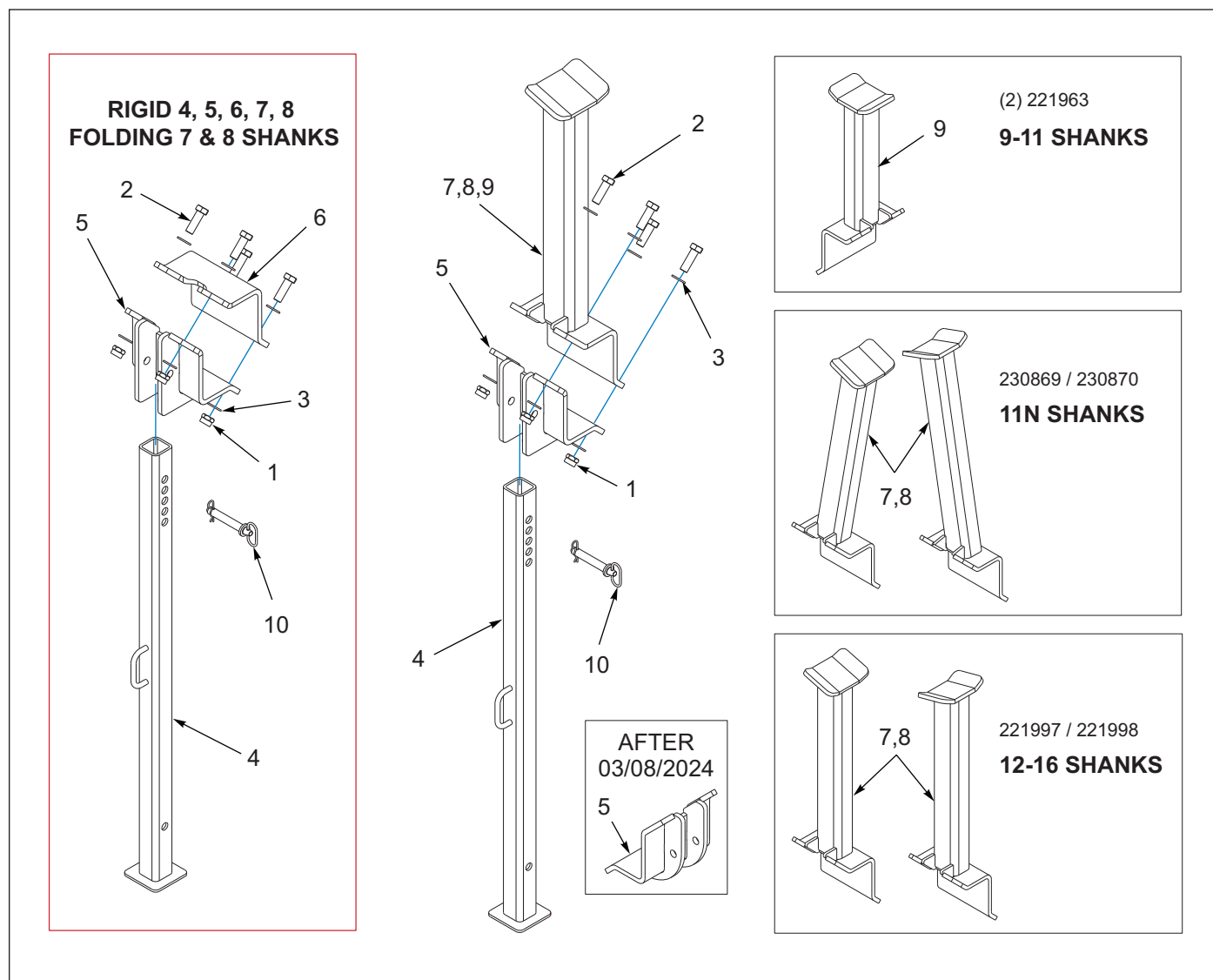
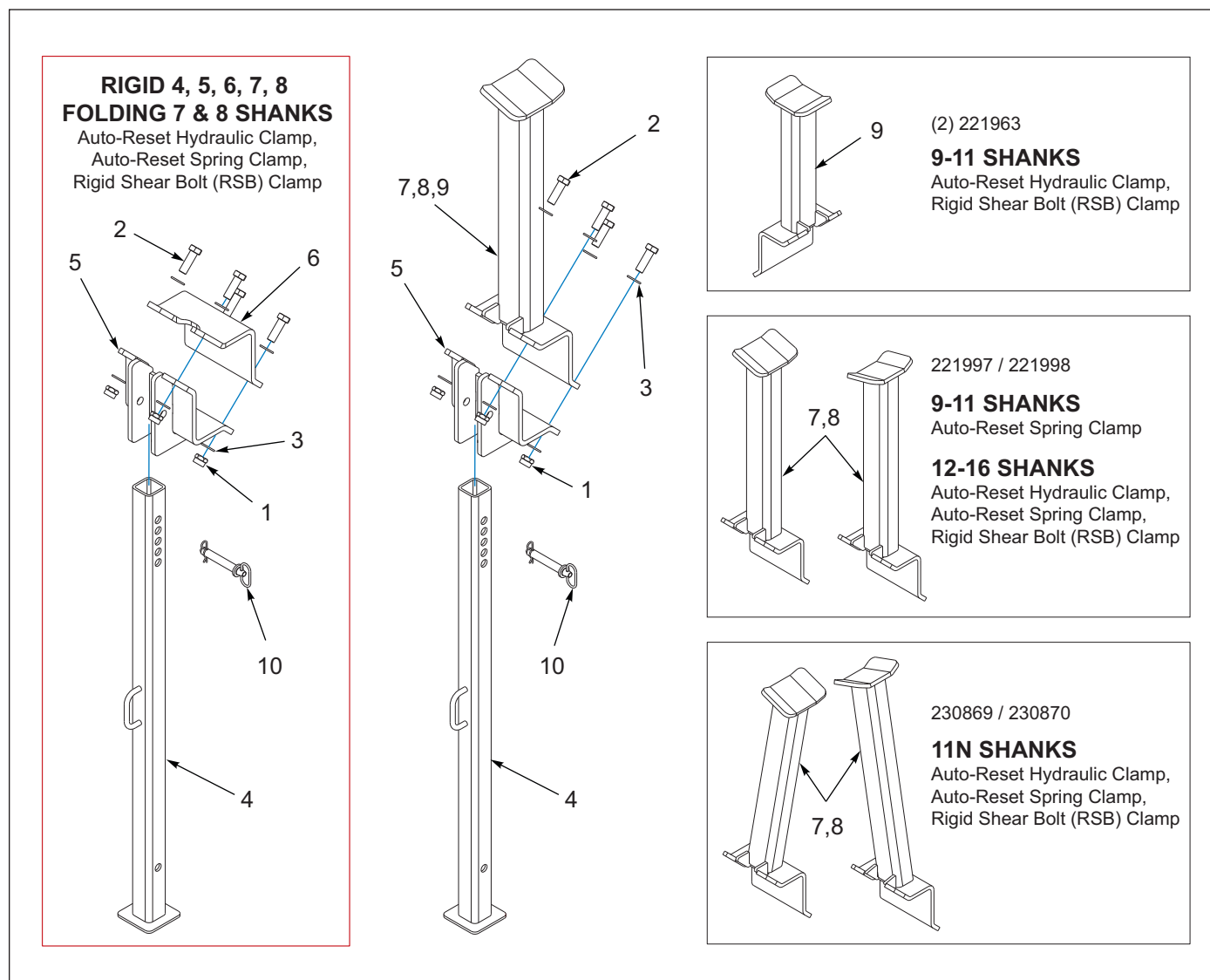


Figure 1-18: 2512 Jack Stand and Wing Rest (AFTER 06/07/2023)

## Jack Stand and Wing Rest (AFTER 06/07/2023)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                        | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------|------|
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                          | 8    |
| 2    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5                                                                      | 8    |
| 3    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                                                           | 16   |
| 4    | 221990          | JACK STAND WLDMT                                                                                   | 2    |
| 5    | 221993          | MOUNT-JACK STAND, WLDMT                                                                            | 2    |
| 6    | 222015          | CAP-BRACKET,JACK MOUNT (RIGID FRAME - ALL CLAMP TYPES)<br>(FOLDING 7 & 8 SHANKS - ALL CLAMP TYPES) | 2    |
| 7    | 221997          | REST-WING, LH, WLDMT (12-16 SHANKS - ALL CLAMP TYPES)                                              | 1    |
| 7    | 230869          | REST-WING, LH, WLDMT (11N SHANKS - ALL CLAMP TYPES)                                                | 1    |
| 8    | 221998          | REST-WING, RH, WLDMT (12-16 SHANKS - ALL CLAMP TYPES)                                              | 1    |
| 8    | 230870          | REST-WING, RH, WLDMT (11N SHANKS - ALL CLAMP TYPES)                                                | 1    |
| 9    | 221963          | REST-WING, 180, WLDMT (9-11 SHANKS - ALL CLAMP TYPES)                                              | 2    |
| 10   | 4001311         | 3/4 x 4 HITCH PIN                                                                                  | 2    |

### Jack Stand and Wing Rest (11/01/21 TO 06/07/23)



**Figure 1-19: 2512 Jack Stand and Wing Rest (11/01/21 TO 06/07/23)**

## Jack Stand and Wing Rest (11/01/21 TO 06/07/23)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                        | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------|------|
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                          | 8    |
| 2    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5                                                                      | 8    |
| 3    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                                                           | 16   |
| 4    | 221990          | JACK STAND WLDMT                                                                                   | 2    |
| 5    | 221993          | MOUNT-JACK STAND, WLDMT                                                                            | 2    |
| 6    | 222015          | CAP-BRACKET,JACK MOUNT (RIGID FRAME - ALL CLAMP TYPES)<br>(FOLDING 7 & 8 SHANKS - ALL CLAMP TYPES) | 2    |
| 7    | 221997          | REST-WING, LH, WLDMT (9-11 SHANKS - SPRING) (12-16 SHANKS - ALL)                                   | 1    |
| 7    | 230869          | REST-WING, LH, WLDMT (11N SHANKS - ALL CLAMP TYPES)                                                | 1    |
| 8    | 221998          | REST-WING, RH, WLDMT (9-11 SHANKS - SPRING) (12-16 SHANKS - ALL)                                   | 1    |
| 8    | 230870          | REST-WING, RH, WLDMT (11N SHANKS - ALL CLAMP TYPES)                                                | 1    |
| 9    | 221963          | REST-WING, 180, WLDMT (9-11 SHANKS - HYD & RSB)                                                    | 2    |
| 10   | 4001311         | 3/4 x 4 HITCH PIN                                                                                  | 2    |

## Jack Stand and Wing Rest (BEFORE 11/01/2021)

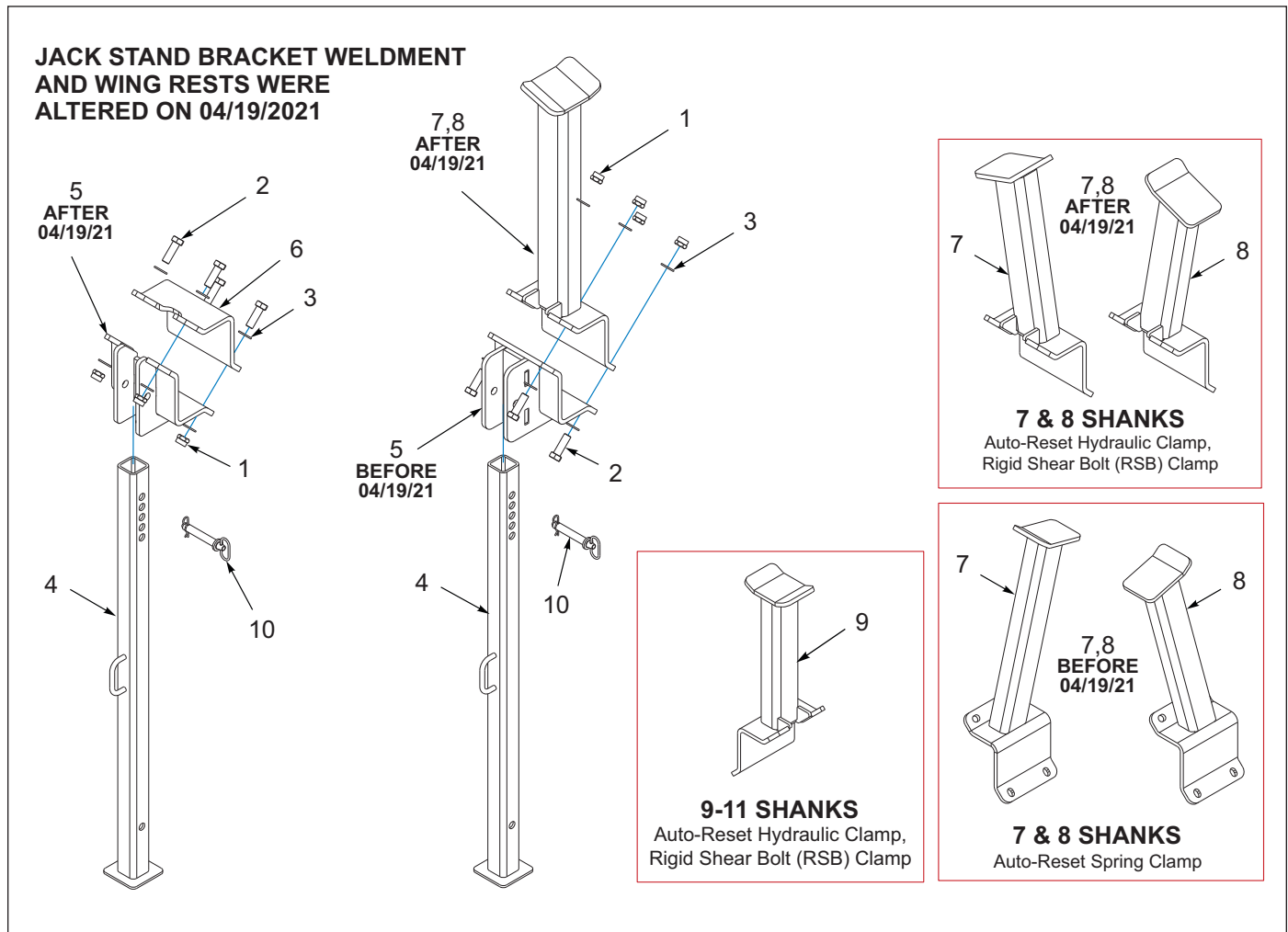


Figure 1-20: 2512 Jack Stand and Wing Rest (BEFORE 11/01/2021)

## Jack Stand and Wing Rest (BEFORE 11/01/2021)

| ITEM | PART NUMBER     | DESCRIPTION                                                     | QTY. |
|------|-----------------|-----------------------------------------------------------------|------|
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                       | 8    |
| 2    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5                                   | 8    |
| 3    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                        | 16   |
| 4    | 221990          | JACK STAND WLDMT                                                | 2    |
| 5    | 221993          | BRACKET, JACK STAND, WLDMT                                      | 2    |
| 6    | 222015          | CAP-BRACKET,JACK MOUNT (RIGID FRAME ONLY)                       | 2    |
| 7    | 230873          | REST-WING, LH, WLDMT (FOLDING 7 & 8 SHANKS - HYD & RSB) (SHOWN) | 1    |
| 7    | 230875          | REST-WING, LH, WLDMT (FOLDING 7 & 8 SHANKS - SPRING) (SHOWN)    | 1    |
| 7    | 221997          | REST-WING, LH, WLDMT (FOLDING 9-16 SHANKS - SPRING)             | 1    |
| 7    | 230869          | REST-WING, LH, WLDMT (FOLDING 11N - ALL CLAMP TYPES)            | 2    |
| 8    | 230874          | REST-WING, RH, WLDMT (FOLDING 7 & 8 SHANKS - HYD & RSB)         | 1    |
| 8    | 230876          | REST-WING, RH, WLDMT (FOLDING 7 & 8 SHANKS - SPRING)            | 1    |
| 8    | 221998          | REST-WING, RH, WLDMT (FOLDING 9-16 SHANKS - SPRING)             | 1    |
| 8    | 230870          | REST-WING, RH, WLDMT (FOLDING 11N - ALL CLAMP TYPES)            | 1    |
| 9    | 221963          | REST-WING, 180, WLDMT (9-16 SHANKS - HYD & RSB) (SHOWN)         | 2    |
| 10   | 4001311         | 3/4 x 4 HITCH PIN                                               | 2    |

## Jack Stand, Rear - Optional

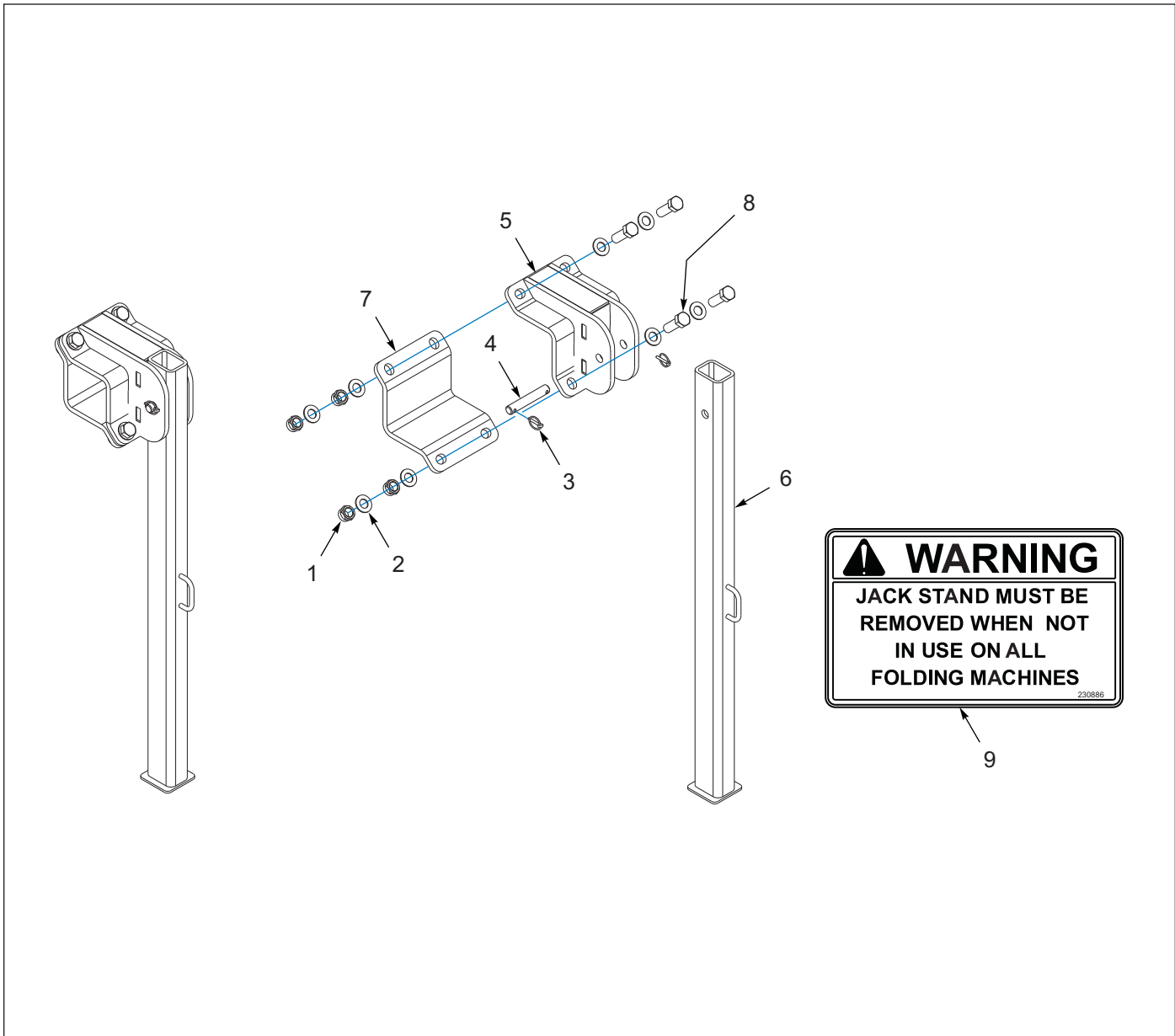


Figure 1-21: Jack Stand, Rear - Optional

## Jack Stand, Rear - Optional

| ITEM | PART NUMBER     | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 230884          | STAND-JACK, REAR ASSY (INCLUDES ITEMS 1-8) | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                | 4    |
| 2    | 1-861-010032-24 | WASHER FL 1IN NARROW ZP                    | 8    |
| 3    | 134912          | PIN, LYNCH 1/4 X 1-1/4                     | 2    |
| 4    | 193753          | PIN, 1.00 X 6.00 H2                        | 1    |
| 5    | 230880          | BRACKET-JACK STAND, WLDMT                  | 1    |
| 6    | 230883          | STAND-JACK, WLDMT                          | 1    |
| 7    | 230888          | BRACKET-MOUNT, JACK STAND                  | 1    |
| 8    | 3J608           | SCREW,HX CP 1-8UNC X 3 GR5                 | 4    |
| 9    | 230886          | DECAL, JACK STAND                          | 1    |

Table provided for general use.

[illegible]

## Gauge Wheel Assembly - Horizontal Mount (Left and Right)

Used On All Units With  
**Odd Number Of Shanks**  
 Up To And Including 9 Shanks  
 And All Units Larger.

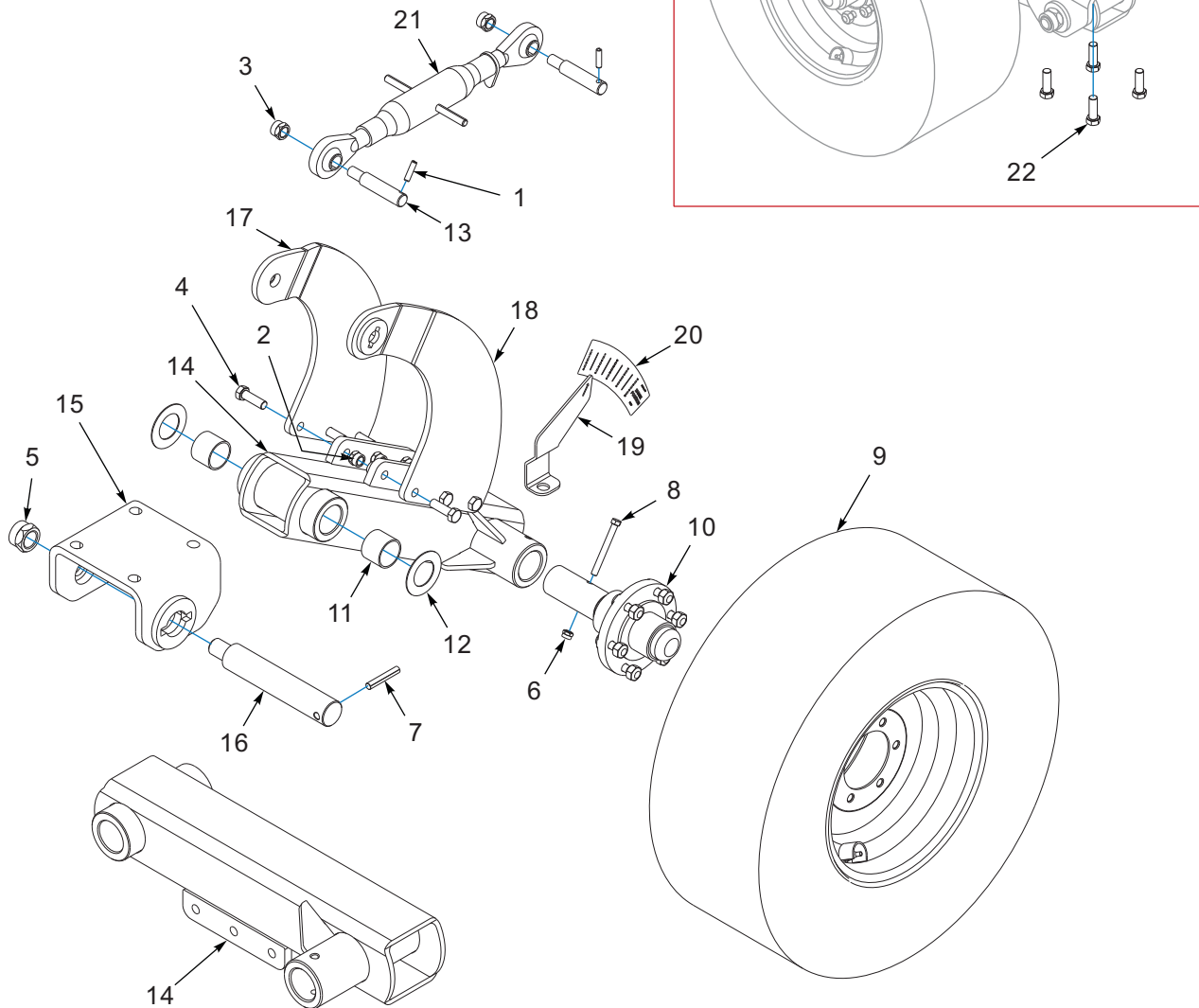


Figure 1-22: Gauge Wheel Assembly - Horizontal Mount (Left and Right)

## Gauge Wheel Assembly - Horizontal Mount (Left & Right)

| ITEM | PART NUMBER     | DESCRIPTION                                                                              | QTY. |
|------|-----------------|------------------------------------------------------------------------------------------|------|
|      | 214273          | WHEEL-GUAGE, LH 2512 <b>(INCLUDES ITEMS 1-21)</b>                                        | 1    |
|      | 214274          | WHEEL-GUAGE, RH 2512 <b>(INCLUDES ITEMS 1-21)</b>                                        | 1    |
| 1    | 0600-375-01500  | PIN ROLL 3/8X1-1/2                                                                       | 2    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                | 6    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10<br><b>(FOR MOUNTING HARDWARE - ADDITIONAL 4 PER WHEEL ASM)</b> | 2    |
| 4    | 1-654-010059-05 | SCREW,HEX CAP,5/8-11UNCX2 GR5                                                            | 6    |
| 5    | 101385          | NUT,HEX SLFLKG,1-1/4-7 GRB                                                               | 1    |
| 6    | 101988          | NUT,HEXSLF-LKG 7/16-14 GRB                                                               | 1    |
| 7    | 140191          | PIN, GROOVED ALLOY 1/2X3                                                                 | 1    |
| 8    | 141809          | SCREW HX CP7/16-14UNC X 4 GR5                                                            | 1    |
| 9    | 142650          | TIRE/WHEEL ASSY 280/70R15                                                                | 1    |
| 10   | 164352          | HUB ASSY, 6BOLT 2-1/4 SPINDLE <b>(SEE PAGE 1-29)</b>                                     | 1    |
| 11   | 197140          | BUSHING POLYLUBE 2-1.4X2X1-3/4                                                           | 2    |
| 12   | 202844          | WASHER, 2 X 3-1/2 X 14 GA, SS                                                            | 2    |
| 13   | 203486          | PIN SHOULDER 1 X 3-3/8                                                                   | 2    |
| 14   | 214275          | ARM-GAUGE MOUNT, LH, WLDMT <b>(LEFT)</b>                                                 | 1    |
| 14   | 214265          | ARM-GAUGE MOUNT, RH, WLDMT <b>(RIGHT)</b>                                                | 1    |
| 15   | 214268          | MOUNT-GAUGE WHEEL                                                                        | 1    |
| 16   | 214276          | PIN-SHOULDER, 2 X 9.375                                                                  | 1    |
| 17   | 214283          | PLATE-CONTROL, GAUGE, RH WLDMT                                                           | 1    |
| 18   | 214284          | PLATE-CONTROL, GAUGE, LH WLDMT                                                           | 1    |
| 19   | 227275          | GAUGE-DEPTH, LH <b>(LEFT)</b>                                                            | 1    |
| 19   | 227276          | GAUGE-DEPTH, RH <b>(RIGHT)</b>                                                           | 1    |
| 20   | 227277          | DECAL, DEPTH GAUGE, LH <b>(LEFT)</b>                                                     | 1    |
| 20   | 227278          | DECAL, DEPTH GAUGE, RH <b>(RIGHT)</b>                                                    | 1    |
| 21   | 7K286           | TOP LINK                                                                                 | 1    |
| 22   | 1-654-010061-06 | SCREW, HXCP,3/4-10UNCX2-1/4GR5<br><b>(MOUNTING HARDWARE - 4 PER WHEEL ASM)</b>           | REF  |

## Gauge Wheel Assembly - Vertical Mount (Left and Right)

Used On All Units With  
Even Number Of Shanks 4 Through 8.

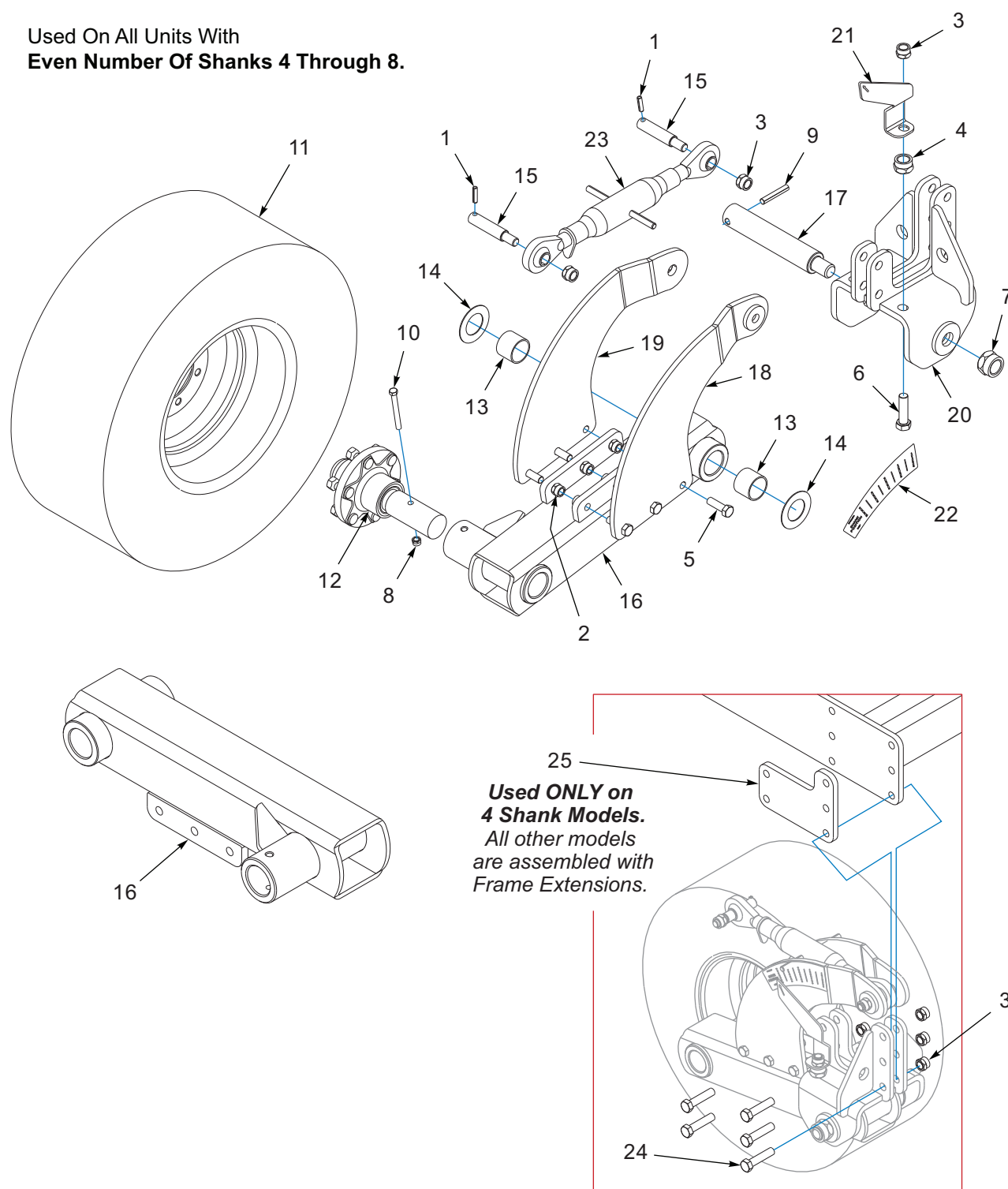


Figure 1-23: Gauge Wheel Assembly - Vertical Mount (Left and Right)

## Gauge Wheel Assembly - Vertical Mount (Left and Right)

| ITEM | PART NUMBER     | DESCRIPTION                                                                           | QTY. |     |
|------|-----------------|---------------------------------------------------------------------------------------|------|-----|
|      | 214351          | WHEEL-GAUGE, LH, 2512 ASSY <b>(INCLUDES ITEMS 1-23)</b>                               | 1    | --  |
|      | 214352          | WHEEL-GAUGE, RH 2512 ASSY <b>(INCLUDES ITEMS 1-23)</b>                                | --   | 1   |
| 1    | 0600-375-01500  | PIN ROLL 3/8X1-1/2                                                                    | 2    | 2   |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                             | 6    | 6   |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10 <b>(FOR MOUNTING HARDWARE - ADDITIONAL 5 PER WHEEL ASM)</b> | 3    | 3   |
| 4    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                                                           | 1    | 1   |
| 5    | 1-654-010059-05 | SCREW,HEX CAP,5/8-11UNCX2 GR5                                                         | 6    | 6   |
| 6    | 231922          | SCREW, HEX CAP, 3/4-10x2-3/4                                                          | 1    | 1   |
| 7    | 101385          | NUT,HEX SLFLKG,1-1/4-7 GRB                                                            | 1    | 1   |
| 8    | 101988          | NUT,HEXSLF-LKG 7/16-14 GRB                                                            | 1    | 1   |
| 9    | 140191          | PIN, GROOVED ALLOY 1/2X3                                                              | 1    | 1   |
| 10   | 141809          | SCREW HX CP7/16-14UNC X 4 GR5                                                         | 1    | 1   |
| 11   | 142650          | TIRE/WHEEL ASSY 280/70R15                                                             | 1    | 1   |
| 12   | 164352          | HUB ASSY, 6BOLT 2-1/4 SPINDLE                                                         | 1    | 1   |
| 13   | 197140          | BUSHING POLYLUBE 2-1.4X2X1-3/4                                                        | 1    | 1   |
| 14   | 202844          | WASHER, 2 X 3-1/2 X 14 GA, SS                                                         | 1    | 1   |
| 15   | 203486          | PIN SHOULDER 1 X 3-3/8                                                                | 1    | 1   |
| 16   | 214275          | ARM-GAUGE MOUNT, LH, WLDMT <b>(LEFT)</b>                                              | 1    | --  |
| 16   | 214265          | ARM-GAUGE MOUNT, RH, WLDMT <b>(RIGHT)</b>                                             | --   | 1   |
| 17   | 214276          | PIN-SHOULDER, 2 X 9.375                                                               | 1    | 1   |
| 18   | 214283          | PLATE-CONTROL, GAUGE, RH WLDMT                                                        | 1    | 1   |
| 19   | 214284          | PLATE-CONTROL, GAUGE, LH WLDMT                                                        | 1    | 1   |
| 20   | 214347          | MOUNT-GAUGE WHEEL, WLDMT                                                              | 1    | 1   |
| 21   | 227276          | GAUGE-DEPTH, RH <b>(LEFT)</b>                                                         | 1    | --  |
| 21   | 227275          | GAUGE-DEPTH, LH <b>(RIGHT)</b>                                                        | --   | 1   |
| 22   | 227278          | DECAL, DEPTH GAUGE, RH <b>(LEFT)</b>                                                  | 1    | --  |
| 22   | 227277          | DECAL, DEPTH GAUGE, LH <b>(RIGHT)</b>                                                 | --   | 1   |
| 23   | 7K286           | TOP LINK                                                                              | 1    | 1   |
| 24   | 214337          | SCREW, HEX CAP, 3/4-10 X 3-1/4<br><b>(MOUNTING HARDWARE - 5 PER WHEEL ASM)</b>        | 5    | 5   |
| 25   | 214351          | WHEEL-GAUGE, LH, 2512 ASSY<br><b>(MOUNTING HARDWARE - 4 SHANK UNIT ONLY)</b>          | REF  | REF |

## Hub Assembly

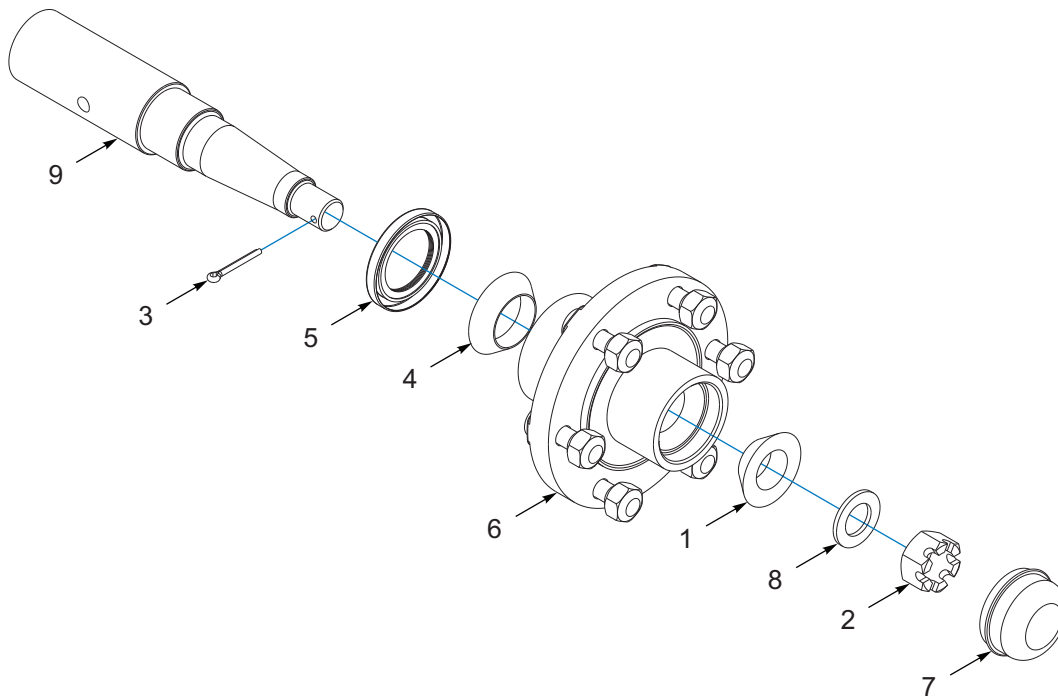


Figure 1-24: Hub Assembly

## Hub Assembly

| ITEM | PART NUMBER     | DESCRIPTION                | QTY. |
|------|-----------------|----------------------------|------|
|      | 164352          | HUB ASSY, 6 BOLT 2-1/4     | 1    |
| 1    | 1-076-010007    | CONE INNER                 | 1    |
| 2    | 1-516-010001-20 | NUT, HX SLOT               | 1    |
| 3    | 1-557-010362-51 | PIN, COTTER                | 1    |
| 4    | 102498          | BEARING CONE, OUTER, 1.625 | 1    |
| 5    | 140554          | SEAL GREASE                | 1    |
| 6    | 140645          | HUB W/CUPS, SIX BOLT       | 1    |
| 7    | 141236          | DUST CAP, WHEEL HUB        | 1    |
| 8    | 141238          | WASHER, SPINDLE            | 1    |
| 9    | 164349          | SPINDLE 2-1/4              | 1    |

Table provided for general use.

[illegible]

## Rear Tow Bar Hitch - Optional

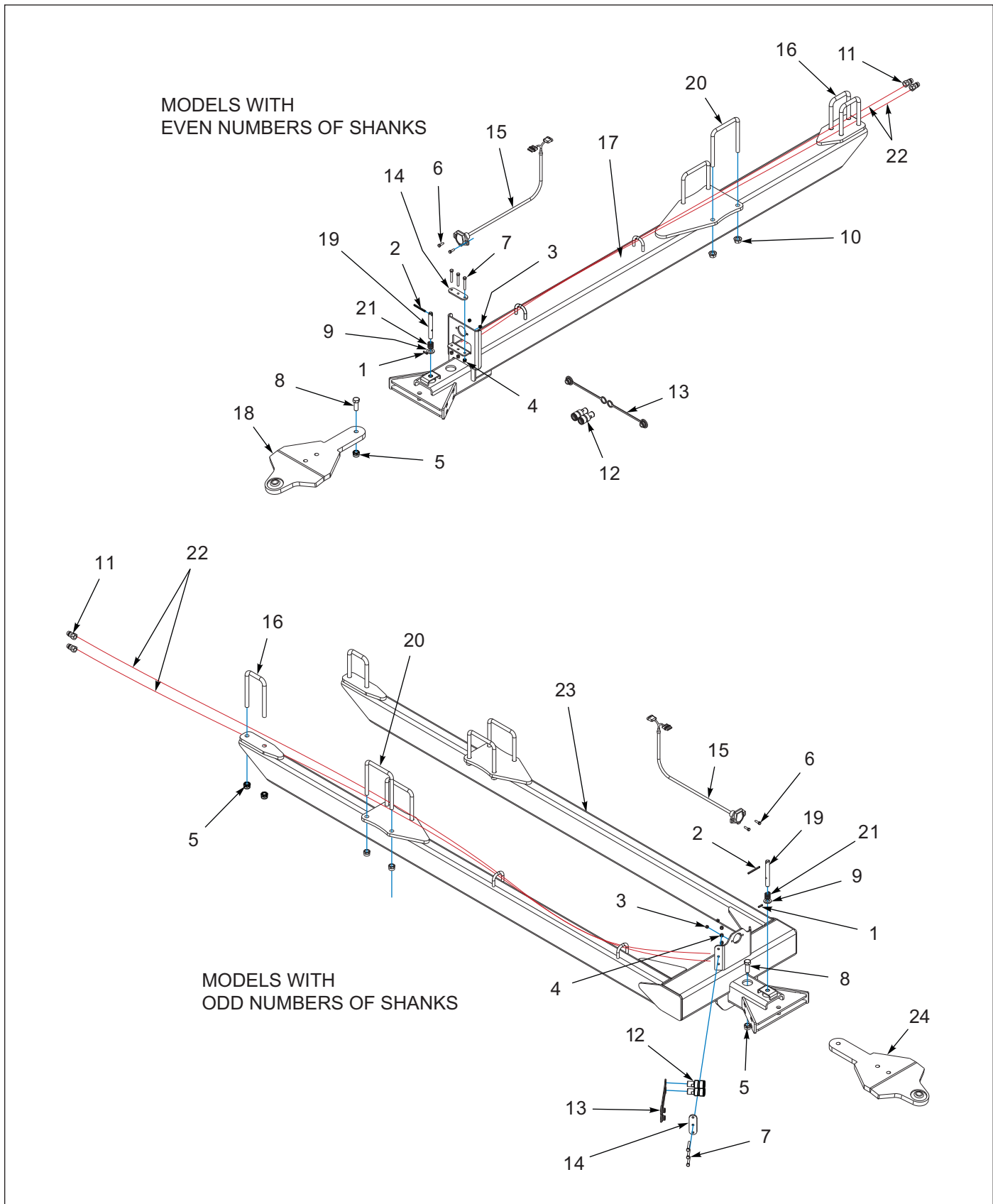


Figure 1-25: Rear Tow Bar Hitch - Optional

## Rear Tow Bar Hitch - Optional

| ITEM | PART NUMBER     | DESCRIPTION                    | QTY. |    |
|------|-----------------|--------------------------------|------|----|
|      | 235965          | HITCH-REAR, EVEN, 2512, ASM    | 1    | -- |
|      | 235967          | HITCH-REAR, ODD, 2512          | --   | 1  |
| 1    | 0600-250-01000  | 1/4X1 ROLL PIN ZP              | 1    | 1  |
| 2    | 0600-250-03000  | 1/4X3 ROLL PIN ZP              | 1    | 1  |
| 3    | 1-512-010005-03 | NUT HEX SLFLKG GRB 5/16-18     | 2    | 2  |
| 4    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16    | 3    | 3  |
| 5    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10      | 1    | 13 |
| 6    | 1-654-010049-05 | SCREW HX CP 5/16-18UNCX1 GR5   | 2    | 2  |
| 7    | 1-654-010051-11 | SCREW HX CP 3/8-16X2-1/2 G5ZP  | 3    | 3  |
| 8    | 1-654-010061-05 | SCREW,HHC,3/4-10UNCX2,GR5,ZP   | 1    | 1  |
| 9    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD       | 1    | 1  |
| 10   | 103841          | NUT,FLG,LNK,SERRATED 3/4-10UNC | 8    | -- |
| 11   | 141828          | COUPLER,MALE 3/4-16 O-RING     | 2    | 2  |
| 12   | 142668          | COUPLER FEMALE 3/4-16 O-RING   | 2    | 2  |
| 13   | 142669          | PLUG, COUPLER DUST             | 2    | 2  |
| 14   | 240198          | PLATE, COUPLER                 | 1    | 1  |
| 15   | 143871          | HARNESS, TANDEM ADAPTER        | 1    | 1  |
| 16   | 1P042           | U-BOLT, 3/4-10X4.75X8.375      | 2    | 2  |
| 17   | 235961          | HITCH-REAR, EVEN, WELDMENT     | 1    | -- |
| 18   | 240193          | HITCH-REAR TOW BAR             | 1    | -- |
| 19   | 3-375-010371    | HITCH PIN AGRI                 | 1    | 1  |
| 20   | 7K723           | U-BOLT 3/4-10X6-13/16X7-3/4    | 2    | 4  |
| 21   | CO-975-74-2000  | SPRING COMPRESSION             | 1    | 1  |
| 22   | 182270          | HOSE ASSY, 3/8X273,8ORB, 8ORB  | 2    | -- |
| 22   | 224446          | HOSE, 3/8X195,-8ORB-8ORB       | --   | 2  |
| 23   | 235966          | HITCH-REAR,ODD, 2512, WELDMENT | --   | 1  |
| 24   | 240193          | HITCH-REAR TOW BAR             | --   | 1  |

# Coulter Assemblies

## Blade Coulter - Straight, Rippled & Pyramid Option (Left Hand)

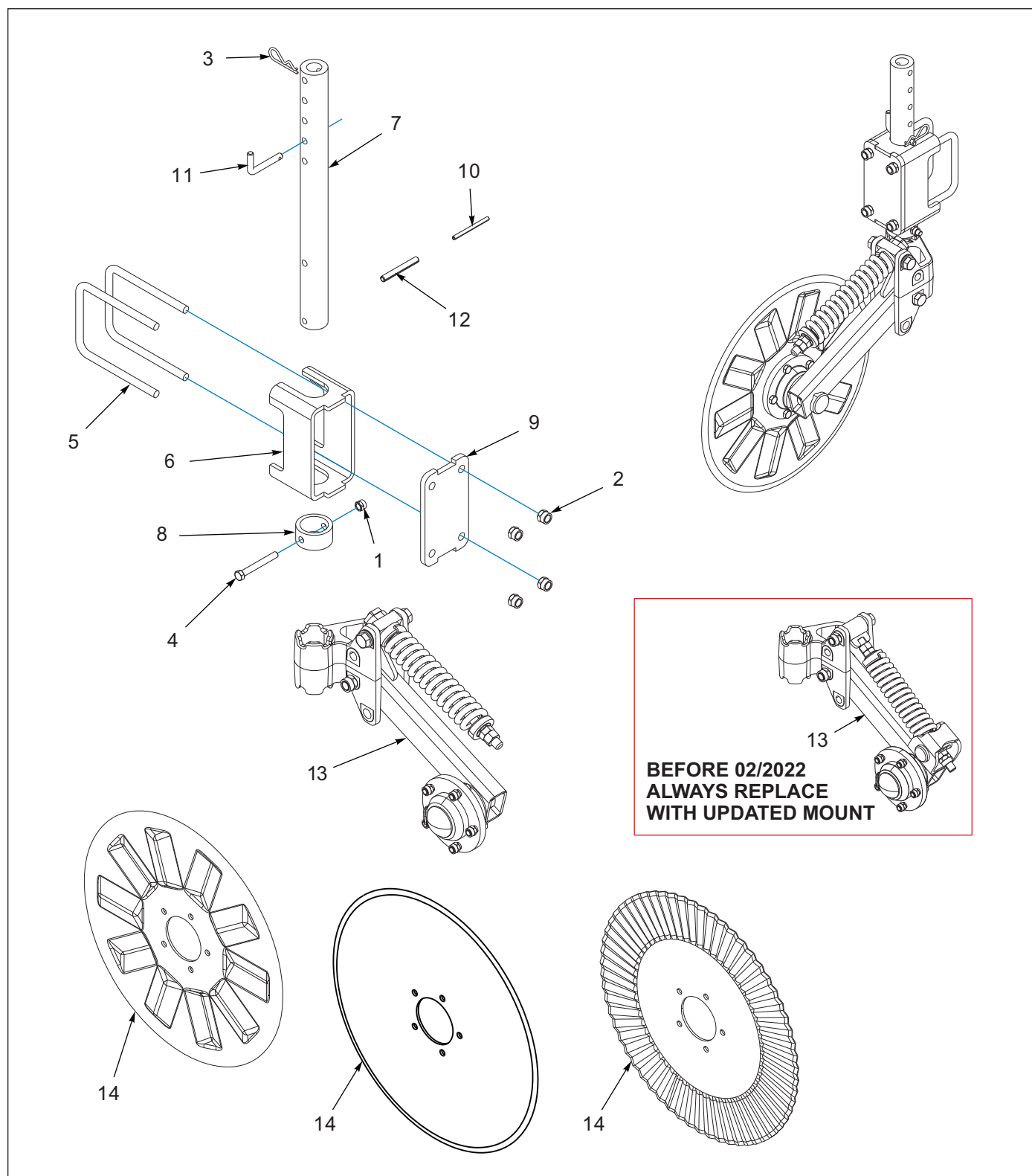


Figure 2-1: Blade Coulter - Straight, Rippled & Pyramid Option (Left Hand)

## Blade Coulter - Straight, Rippled & Pyramid Options (Left Hand)

| ITEM | PART NUMBER     | DESCRIPTION                                                  | QTY. |
|------|-----------------|--------------------------------------------------------------|------|
|      | 233873          | COULTER-HD, STRAIGHT BLADE, LH <b>(AFTER 02/2022)</b>        | 1    |
|      | 233875          | COULTER-HD, RIPPLED BLADE, LH <b>(AFTER 02/2022)</b>         | 1    |
|      | 233877          | COULTER-HD, PYRAMID BLADE, LH <b>(AFTER 02/2022)</b>         | 1    |
|      | 181844          | 22 COULTER HD SMOOTH BLADE LH <b>(BEFORE 02/2022)</b>        | 1    |
|      | 181843          | 22 COULTER HD RIPPLED BLADE LH <b>(BEFORE 02/2022)</b>       | 1    |
|      | 181845          | 22 COULTER HD PYRAMID BLADE LH <b>(BEFORE 02/2022)</b>       | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                   | 1    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                    | 4    |
| 3    | 1-557-010013    | PIN, HAIR 3/16 DIA                                           | 1    |
| 4    | 1-654-010055-13 | SCREW,HEX CAP,1/2-13UNCX4 GR5                                | 1    |
| 5    | 149192          | U-BOLT,6-11/16 CENTERS X 8-1/2                               | 2    |
| 6    | 179082          | COULTER CLAMP TUBE                                           | 1    |
| 7    | 179545          | COULTER ADJUST TUBE                                          | 1    |
| 8    | 179546          | COULTER STOP                                                 | 1    |
| 9    | 179547          | CLAMP PLATE                                                  | 1    |
| 10   | 5D954           | ROLL PIN 5/16 X 4                                            | 1    |
| 11   | 8-557-010095    | PIN RIGID GA WHEEL 800                                       | 1    |
| 12   | 8K756           | ROLL PIN 1/2 x 4                                             | 1    |
| 13   | 233841          | MOUNT-COULTER, LH ASSY <b>(AFTER 02/2022) (SEE PAGE 2-5)</b> | 1    |
| 13   | 182241          | COULTER ASSY, HD <b>(BEFORE 02/2022) (SEE PAGE 2-7)</b>      | 1    |
| 14   | 179966          | COULTER BLADE 22 PYRAMID                                     | 1    |
| 14   | 176846          | COULTER 22" SMOOTH                                           | 1    |
| 14   | 9K289           | 22" COULTER                                                  | 1    |

## Blade Coulter - Straight, Rippled & Pyramid Option (Right Hand)

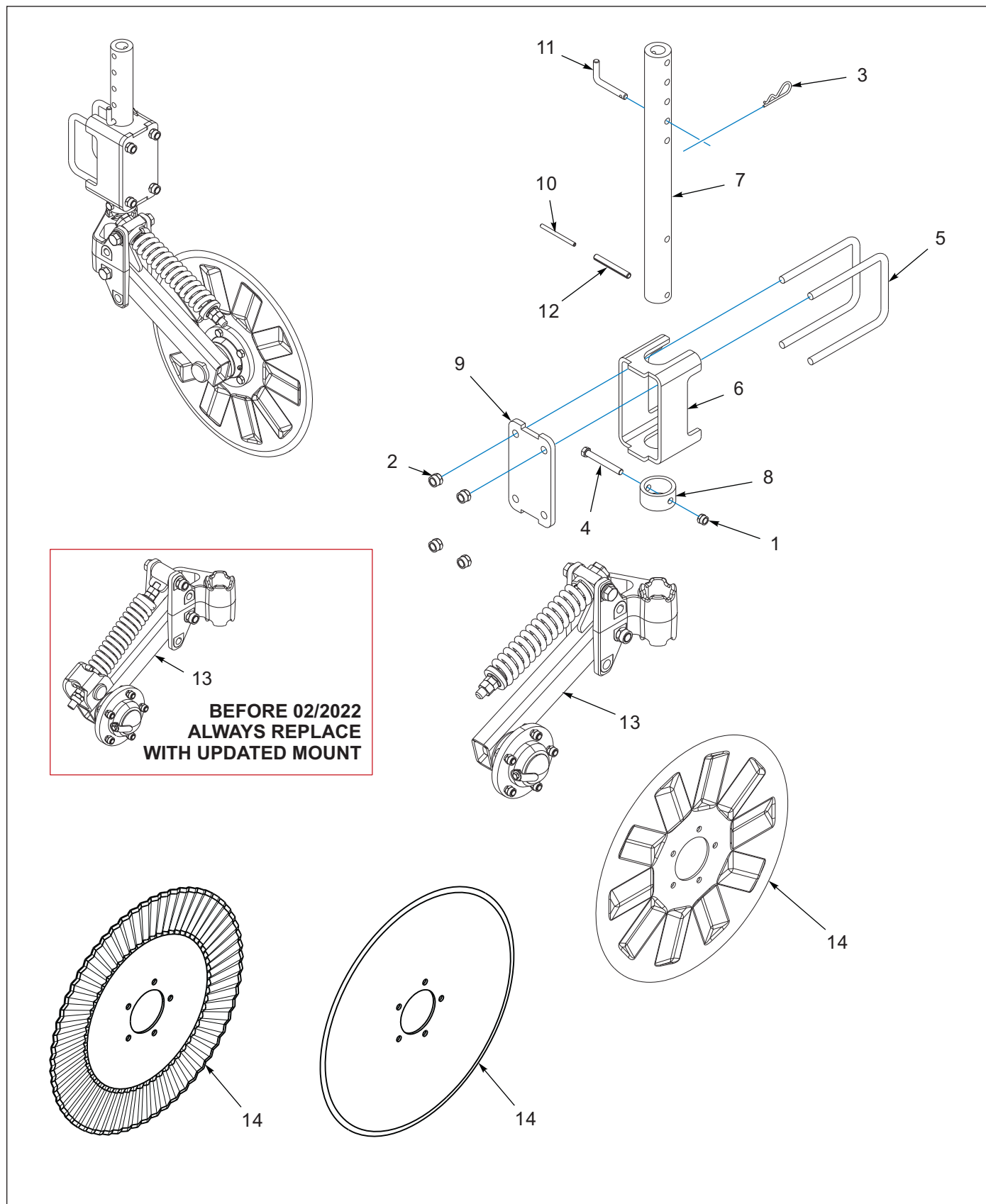


Figure 2-2: Blade Coulter - Straight, Rippled & Pyramid Option (Right Hand)

## Blade Coulter - Straight, Rippled & Pyramid Option (Right Hand)

| ITEM | PART NUMBER     | DESCRIPTION                                           | QTY. |
|------|-----------------|-------------------------------------------------------|------|
|      | 233874          | COULTER-HD, STRAIGHT BLADE, RH (AFTER 02/2022)        | 1    |
|      | 233876          | COULTER-HD, RIPPLED BLADE, RH (AFTER 02/2022)         | 1    |
|      | 233878          | COULTER-HD, PYRAMID BLADE, RH (AFTER 02/2022)         | 1    |
|      | 176849          | 22 COULTER HD SMOOTH BLADE RH (BEFORE 02/2022)        | 1    |
|      | 176848          | 22 COULTER HD RIPPLED BLADE RH (BEFORE 02/2022)       | 1    |
|      | 181085          | 22 COULTER HD PYRAMID BLADE RH (BEFORE 02/2022)       | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                            | 1    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                             | 4    |
| 3    | 1-557-010013    | PIN, HAIR 3/16 DIA                                    | 1    |
| 4    | 1-654-010055-13 | SCREW,HEX CAP,1/2-13UNCX4 GR5                         | 1    |
| 5    | 149192          | U-BOLT,6-11/16 CENTERS X 8-1/2                        | 2    |
| 6    | 179082          | COULTER CLAMP TUBE                                    | 1    |
| 7    | 179545          | COULTER ADJUST TUBE                                   | 1    |
| 8    | 179546          | COULTER STOP                                          | 1    |
| 9    | 179547          | CLAMP PLATE                                           | 1    |
| 10   | 5D954           | ROLL PIN 5/16 X 4                                     | 1    |
| 11   | 8-557-010095    | PIN RIGID GA WHEEL 800                                | 1    |
| 12   | 8K756           | ROLL PIN 1/2 x 4                                      | 1    |
| 13   | 233842          | MOUNT-COULTER, RH, ASM (AFTER 02/2022) (SEE PAGE 2-5) | 1    |
| 13   | 182242          | COULTER ASSY, HD (BEFORE 02/2022) (SEE PAGE 2-7)      | 1    |
| 14   | 179966          | COULTER BLADE 22 PYRAMID                              | 1    |
| 14   | 176846          | COULTER 22" SMOOTH                                    | 1    |
| 14   | 9K289           | 22" COULTER                                           | 1    |

## COULTER ASSEMBLIES

## Heavy Duty Coulter (AFTER 02/2022)

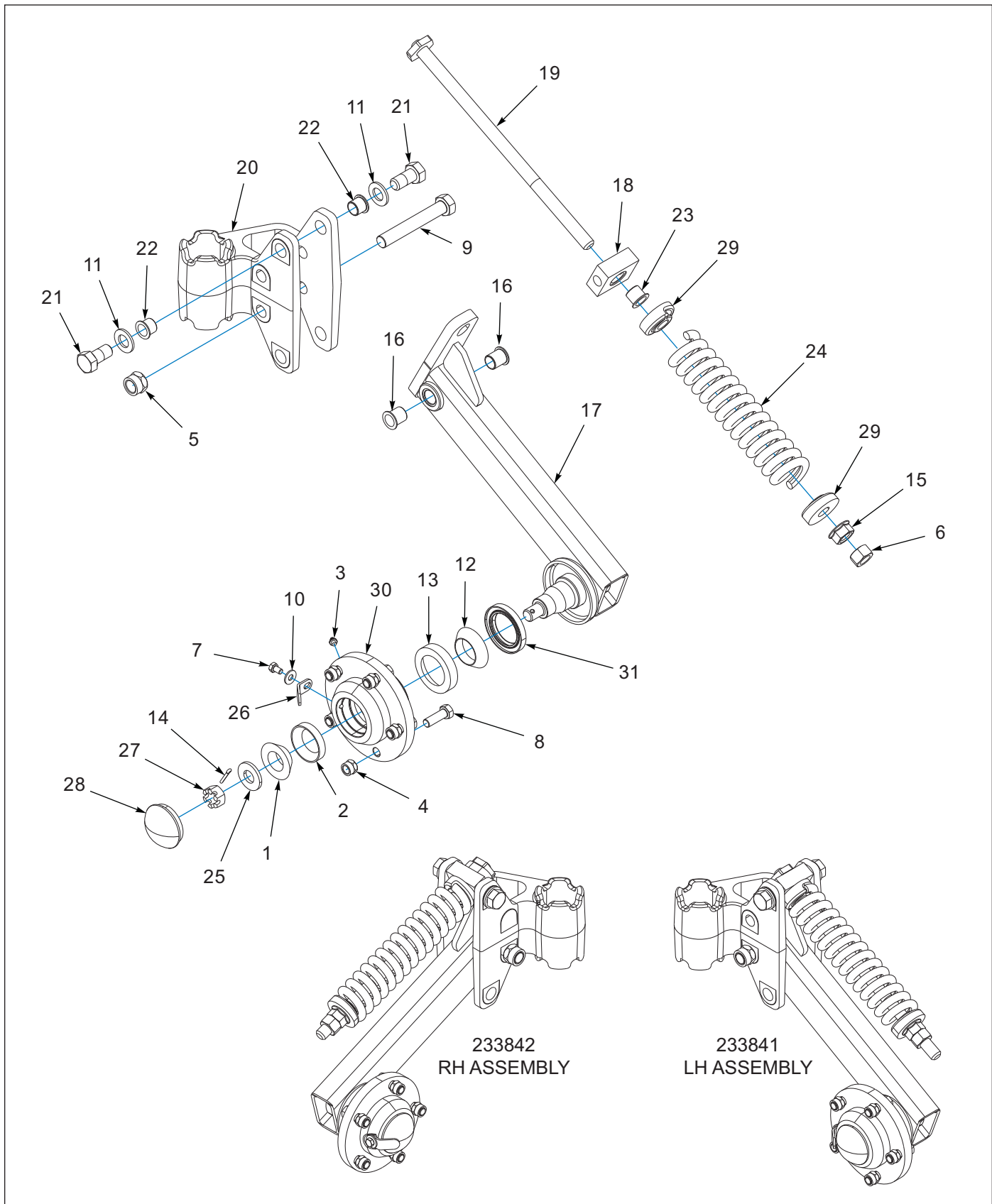


Figure 2-3: Heavy Duty Coulter (AFTER 02/2022)

## Heavy Duty Coulter (AFTER 02/2022)

| ITEM | PART NUMBER     | DESCRIPTION                    | QTY. |
|------|-----------------|--------------------------------|------|
|      | 233841          | MOUNT-COULTER, LH, ASSY        | 1    |
|      | 233842          | MOUNT-COULTER, RH, ASM         | 1    |
| 1    | 1-076-010007    | CONE INNER                     | 1    |
| 2    | 1-076-010010    | CUP INNER                      | 1    |
| 3    | 1-298-010001-1  | ZERK FITTING 1/4 SAE           | 1    |
| 4    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB     | 5    |
| 5    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10      | 1    |
| 6    | 1-512-010007-12 | NUT, HEX 3/4-10 GR2 ZP         | 1    |
| 7    | 1-654-010049-01 | SCREW,HEX CAP,5/16-18UNCX1/2   | 1    |
| 8    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2  | 5    |
| 9    | 1-654-010061-15 | SCREW,HX CP 3/4-10UNCX5 GR5    | 1    |
| 10   | 1-861-010032-09 | WASHER, FLAT 5/16 W ZP/CD      | 1    |
| 11   | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD       | 2    |
| 12   | 102498          | BEARING CONE,OUTER, 1.625      | 1    |
| 13   | 102604          | BEARING CUP, OUTER             | 1    |
| 14   | 110-0344        | 5/32X1 COTTER PIN              | 1    |
| 15   | 168226          | NUT,HEX FLG 3/4-10, GR8, ZP    | 1    |
| 16   | 182224          | BEARING- IGUS,FLNGD,7/8X3/4X1  | 2    |
| 17   | 233835          | ARM-COULTER, LH, WLDMT         | 1    |
| 17   | 233836          | ARM-COULTER, RH, WLDMT         | 1    |
| 18   | 233838          | BLOCK-PIVOT, SPRING            | 1    |
| 19   | 233845          | ROD-SPRING, WLDMT              | 1    |
| 20   | 233847          | MOUNT-SWIVEL, COULTER, 2512    | 1    |
| 21   | 233849          | SCREW-HEX CAP,3/4-10 UNCX1-1/2 | 2    |
| 22   | 233850          | BEARING-IGUS,FLNGD,QFI-1412-12 | 2    |
| 23   | 233851          | BEARING-IGUS,FLNGD,QFM-2023-21 | 1    |
| 24   | 233887          | SPRING,COMP,12-3/16X2-1/2,K898 | 1    |
| 25   | 3J397           | WASHER 1-3/4ODX13/16IDX3/16THK | 1    |
| 26   | 3K613           | CAP STRAP                      | 1    |
| 27   | 3/4-16HSN       | HEX SLOTTED NUT                | 1    |
| 28   | 6D337           | HUB CAP                        | 1    |
| 29   | 7J569           | CAP (6D410)                    | 2    |
| 30   | 9K453           | HUB (USES 3K612W HUB BLANK)    | 1    |
| 31   | 9K454           | GREASE SEAL                    | 1    |

## COULTER ASSEMBLIES

## Heavy Duty Coulter (BEFORE 02/2022)

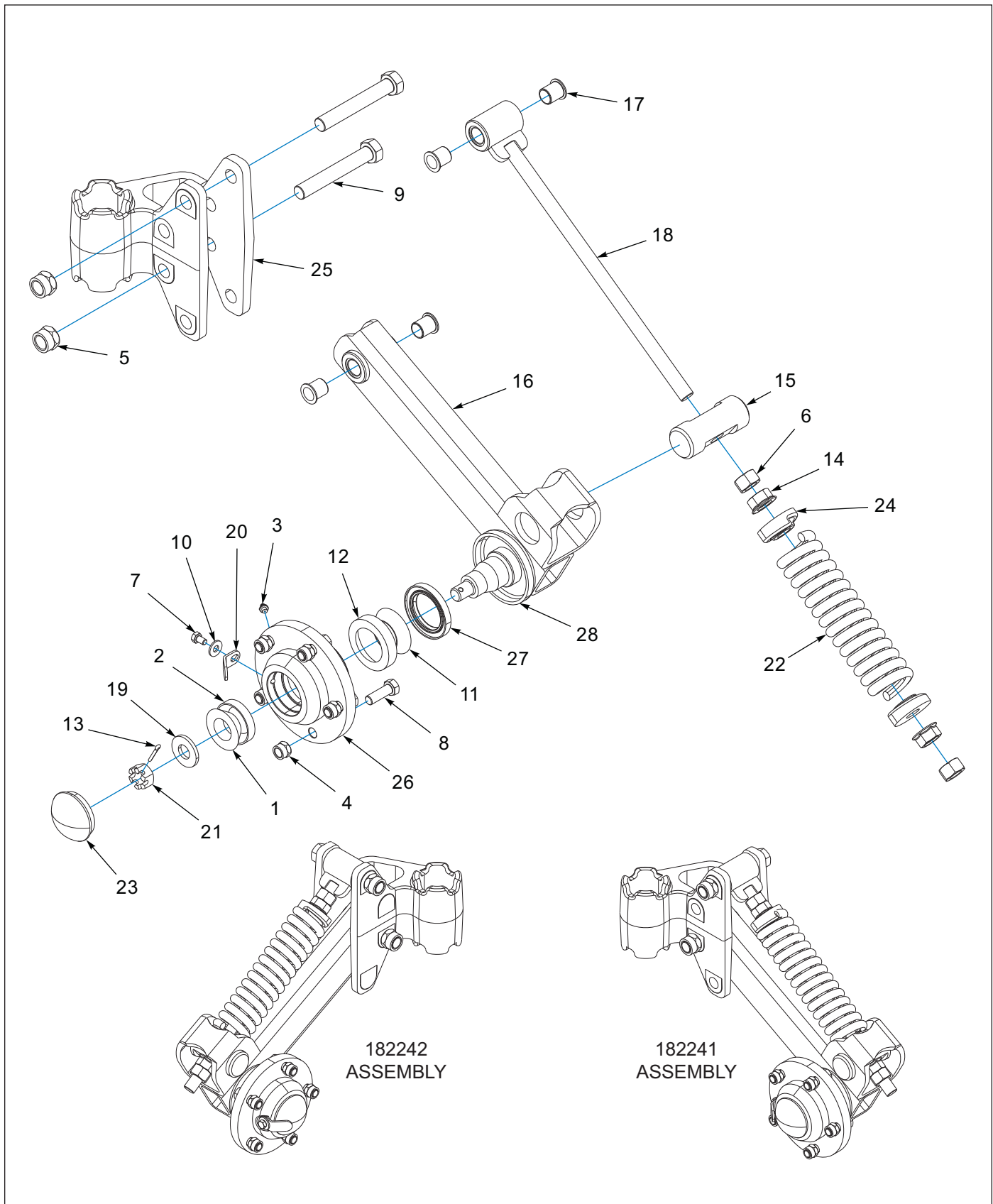
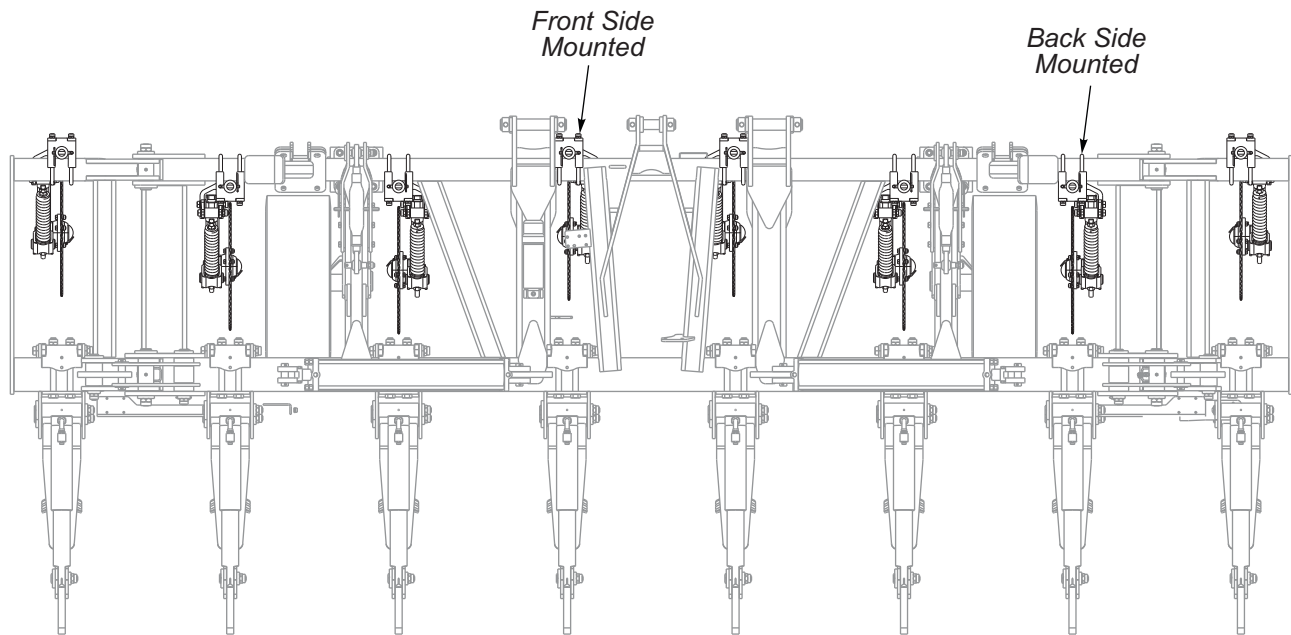


Figure 2-4: Heavy Duty Coulter (BEFORE 02/2022)

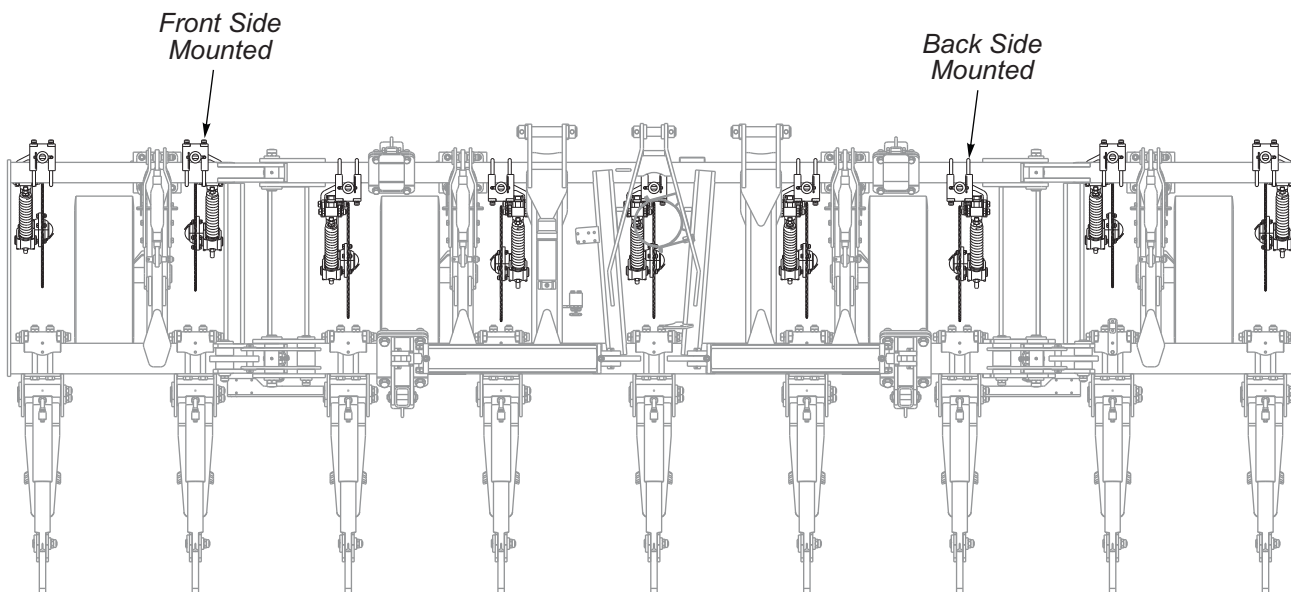
## Heavy Duty Coulter (BEFORE 02/2022)

| ITEM | PART NUMBER     | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 182241          | COULTER ASSY, HD              | 1    |
|      | 182242          | COULTER ASSY, HD              | 1    |
| 1    | 1-076-010007    | CONE INNER                    | 1    |
| 2    | 1-076-010010    | CUP INNER                     | 1    |
| 3    | 1-298-010001-1  | ZERK FITTING 1/4 SAE          | 1    |
| 4    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB    | 5    |
| 5    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10     | 2    |
| 6    | 1-512-010007-12 | NUT, HEX 3/4-10 GR2 ZP        | 2    |
| 7    | 1-654-010049-01 | SCREW,HEX CAP,5/16-18UNCX1/2  | 1    |
| 8    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2 | 5    |
| 9    | 1-654-010061-15 | SCREW,HX CP 3/4-10UNCX5 GR5   | 2    |
| 10   | 1-861-010032-09 | WASHER, FLAT 5/16 W ZP/CD     | 1    |
| 11   | 102498          | BEARING CONE,OUTER, 1.625     | 1    |
| 12   | 102604          | BEARING CUP, OUTER            | 1    |
| 13   | 110-0344        | 5/32X1 COTTER PIN             | 1    |
| 14   | 168226          | NUT,HEX FLG 3/4-10, GR8, ZP   | 4    |
| 15   | 182220          | PIVOT BOLT                    | 1    |
| 16   | 182222          | ARM WLDMT, COULTER, RH        | 1    |
| 16   | 182225          | ARM WLDMT, COULTER, LH        | 1    |
| 17   | 182224          | BEARING- IGUS,FLNGD,7/8X3/4X1 | 4    |
| 18   | 182233          | BOLT - EYE WELDMENT           | 1    |
| 19   | 3J397           | WASHER                        | 1    |
| 20   | 3K613           | CAP STRAP                     | 1    |
| 21   | 3/4-16HSN       | HEX SLOTTED NUT               | 1    |
| 22   | 4K076           | COMPRESSION SPRING - OUTER    | 1    |
| 23   | 6D337           | HUB CAP                       | 1    |
| 24   | 7J569           | CAP (6D410)                   | 2    |
| 25   | 9K295           | COULTER SWIVEL                | 1    |
| 26   | 9K453           | HUB                           | 1    |
| 27   | 9K454           | GREASE SEAL                   | 1    |
| 28   | 3K608           | SHIELD                        | 1    |

## Coulter Placement



COULTER CENTER POSITIONS FOR RIGID 6, FOLDING 8 (SHOWN), 10, 12, 14, 16



COULTER CENTER POSITIONS FOR FOLDING 9 (SHOWN)  
Coulters Mounted On Backside Of Toolbar For Rigid 4 And 5

Figure 2-5: Coulter Placement

Table provided for general use.

[illegible]

# Electrical

## Lighting and Reflectors (Rigid 4 Shank)

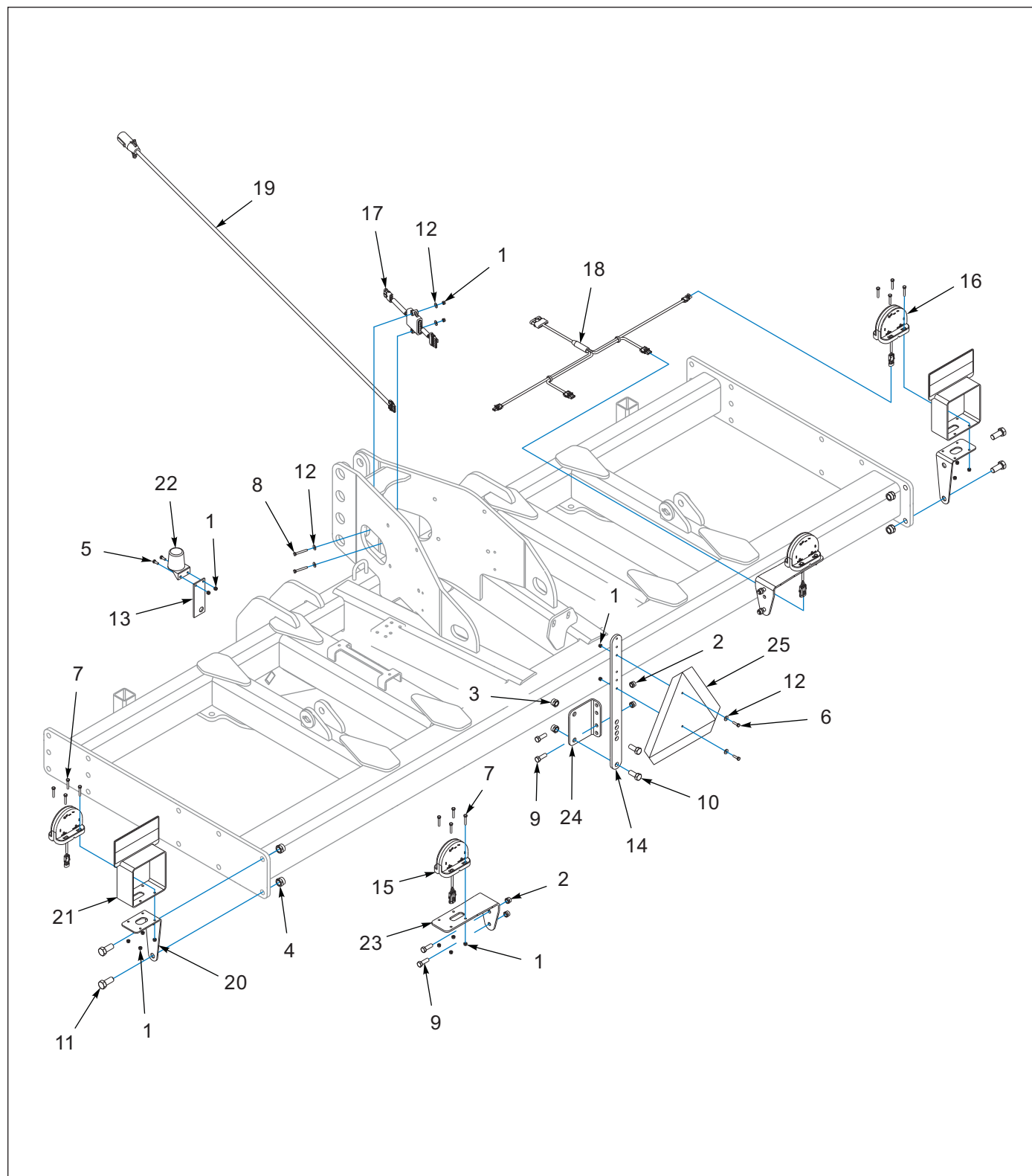


Figure 3-1: Lighting and Reflectors (Rigid 4 Shank)

## Lighting and Reflectors (Rigid 4 Shank)

| ITEM | PART NUMBER     | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 214335          | KIT, WARNING LIGHT, 2512-4                 | 1    |
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                  | 22   |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                 | 6    |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                  | 2    |
| 4    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                  | 4    |
| 5    | 1-654-010047-04 | SCREW,HEX CAP,1/4-20X3/4 GR5               | 2    |
| 6    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                | 2    |
| 7    | 1-654-010047-08 | SCREW HX CP,1/4-20UNCX1-1/2G5              | 16   |
| 8    | 1-654-010047-10 | SCREW,HX CP,1/4-20UNC X2 GR5               | 2    |
| 9    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2              | 6    |
| 10   | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5              | 2    |
| 11   | 1-654-010061-04 | SCREW,HX CP 3/4-10UNCX1-3/4                | 4    |
| 12   | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                         | 6    |
| 13   | 101404          | BRKT,STOR-AWAY HOLDER, 2000                | 1    |
| 14   | 164142          | BRACKET, SMV MOUNTING                      | 1    |
| 15   | 174435          | LAMP, AG RED SINGLE LED                    | 2    |
| 16   | 174436          | LAMP, AG AMBER SINGLE LED                  | 2    |
| 17   | 174437          | MODULE, AG FLASHER CONTROL (SEE PAGE 3-7)  | 1    |
| 18   | 175151          | HARNESS, LED WARNING LIGHTS (SEE PAGE 3-7) | 1    |
| 19   | 178514          | HARNESS,7 PIN/4PIN WP, 10' (SEE PAGE 3-7)  | 1    |
| 20   | 182290          | BRACKET - LIGHT MOUNT                      | 2    |
| 21   | 182310          | BRACKET -LIGHT MOUNT REFLECTOR             | 4    |
| 22   | 2-368-010287    | HARNESS, STOR-A-WAY                        | 1    |
| 23   | 214316          | BRACKET-WARNING LAMP                       | 2    |
| 24   | 214317          | ANGLE-MOUNT, SMV                           | 1    |
| 25   | 70260977        | SMV EMBLEM                                 | 1    |

## Lighting and Reflections (Rigid 5/6/7/8 Shank)

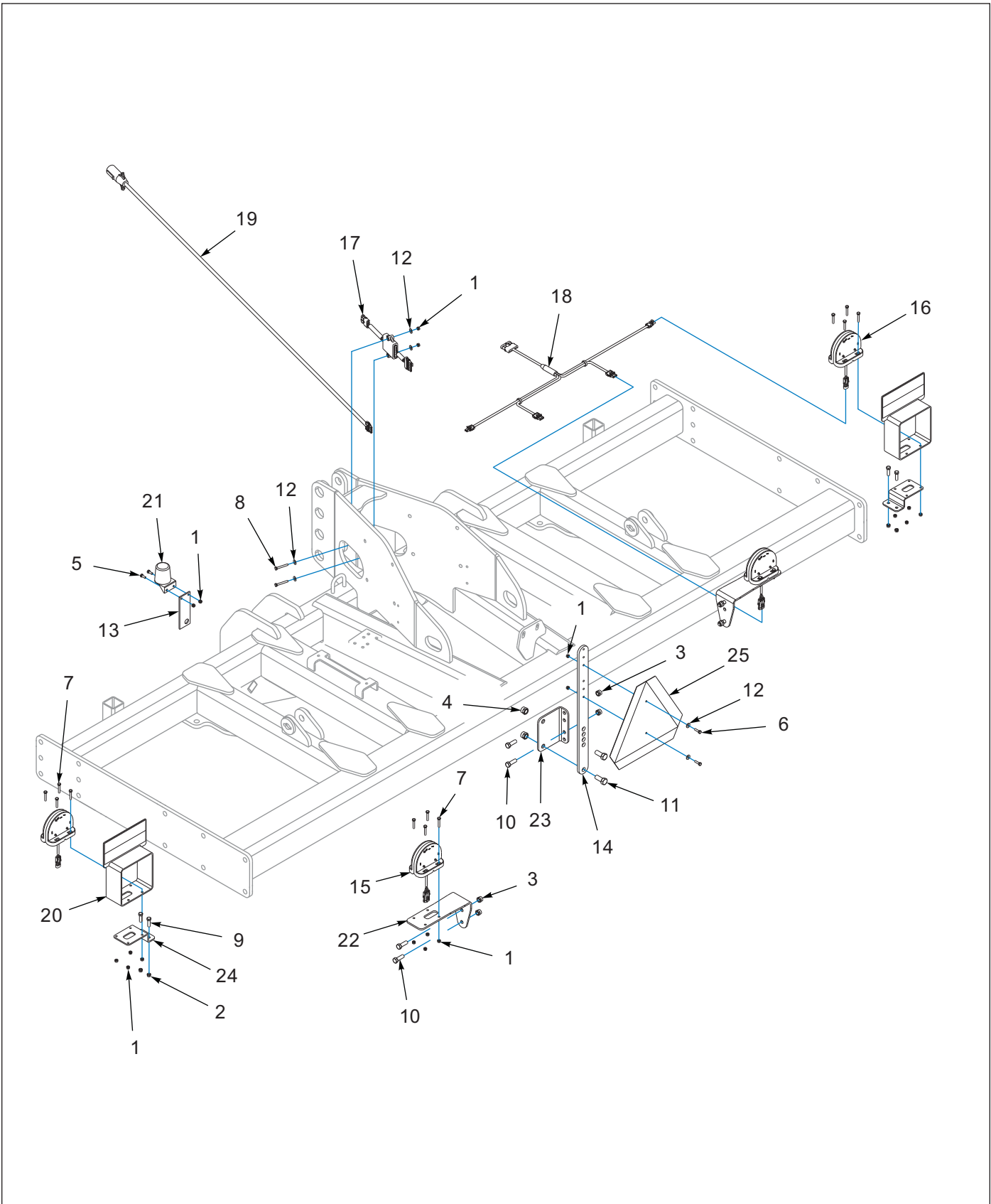


Figure 3-2: Lighting and Reflections (Rigid 5/6/7/8 Shank)

## Lighting and Reflectors (Rigid 5/6/7/8 Shank)

| ITEM | PART NUMBER     | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 214336          | KIT,WARN LIGHT, 2512-5,6,7,&8              | 1    |
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                  | 22   |
| 2    | 1-512-010005-05 | NUT,HEX,SLFLKG, GRB 3/8-16                 | 4    |
| 3    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                 | 6    |
| 4    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                  | 2    |
| 5    | 1-654-010047-04 | SCREW,HEX CAP,1/4-20X3/4 GR5               | 2    |
| 6    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                | 2    |
| 7    | 1-654-010047-08 | SCREW HX CP,1/4-20UNCX1-1/2G5              | 16   |
| 8    | 1-654-010047-10 | SCREW,HX CP,1/4-20UNC X2 GR5               | 2    |
| 9    | 1-654-010051-06 | SCREW,HEX CAP 3/8-16UNCX1-1/4              | 4    |
| 10   | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2              | 6    |
| 11   | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5              | 2    |
| 12   | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                         | 6    |
| 13   | 101404          | BRKT,STOR-AWAY HOLDER, 2000                | 1    |
| 14   | 164142          | BRACKET, SMV MOUNTING                      | 1    |
| 15   | 174435          | LAMP, AG RED SINGLE LED                    | 2    |
| 16   | 174436          | LAMP, AG AMBER SINGLE LED                  | 2    |
| 17   | 174437          | MODULE, AG FLASHER CONTROL (SEE PAGE 3-7)  | 1    |
| 18   | 175151          | HARNESS, LED WARNING LIGHTS (SEE PAGE 3-7) | 1    |
| 19   | 178514          | HARNESS,7 PIN/4PIN WP, 10' (SEE PAGE 3-7)  | 1    |
| 20   | 182310          | BRACKET -LIGHT MOUNT REFLECTOR             | 2    |
| 21   | 2-368-010287    | HARNESS, STOR-A-WAY                        | 1    |
| 22   | 214316          | BRACKET-WARNING LAMP                       | 2    |
| 23   | 214317          | ANGLE-MOUNT, SMV                           | 1    |
| 24   | 227905          | BRACKET-WARNING LIGHT MOUNT                | 2    |
| 25   | 70260977        | SMV EMBLEM                                 | 1    |

## Lighting and Reflectors (Folding)

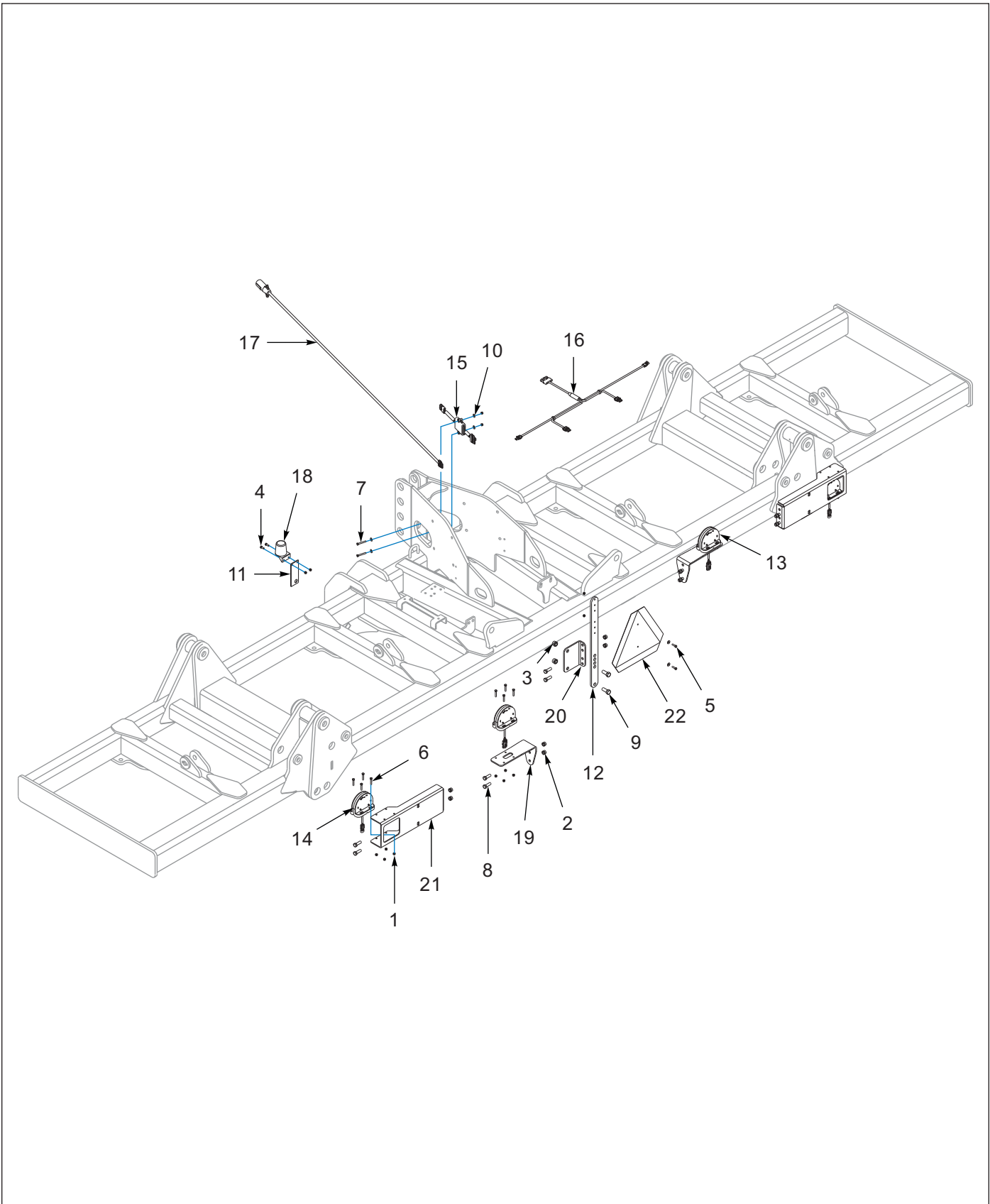


Figure 3-3: Lighting and Reflectors (Folding)

## Lighting and Reflectors (Folding)

| ITEM | PART NUMBER     | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 221967          | KIT, WARNING LIGHT, 2512F     | 1    |
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20     | 22   |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB    | 10   |
| 3    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11     | 2    |
| 4    | 1-654-010047-04 | SCREW,HEX CAP,1/4-20X3/4 GR5  | 2    |
| 5    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5   | 2    |
| 6    | 1-654-010047-08 | SCREW HX CP,1/4-20UNCX1-1/2G5 | 16   |
| 7    | 1-654-010047-10 | SCREW,HX CP,1/4-20UNC X2 GR5  | 2    |
| 8    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2 | 10   |
| 9    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5 | 2    |
| 10   | 1-861-010032-07 | WASHER,FLAT 1/4 ZP            | 6    |
| 11   | 101404          | BRKT,STOR-AWAY HOLDER, 2000   | 1    |
| 12   | 164142          | BRACKET, SMV MOUNTING         | 1    |
| 13   | 174435          | LAMP, AG RED SINGLE LED       | 2    |
| 14   | 174436          | LAMP, AG AMBER SINGLE LED     | 2    |
| 15   | 174437          | MODULE, AG FLASHER CONTROL    | 1    |
| 16   | 175151          | HARNESS, LED WARNING LIGHTS   | 1    |
| 17   | 178514          | HARNESS,7 PIN/4PIN WP, 10'    | 1    |
| 18   | 2-368-010287    | HARNESS, STOR-A-WAY           | 1    |
| 19   | 214316          | BRACKET-WARNING LAMP          | 2    |
| 20   | 214317          | ANGLE-MOUNT, SMV              | 1    |
| 21   | 221954          | BRACKET, LIGHT                | 2    |
| 22   | 70260977        | SMV EMBLEM                    | 1    |

## Wiring Diagram

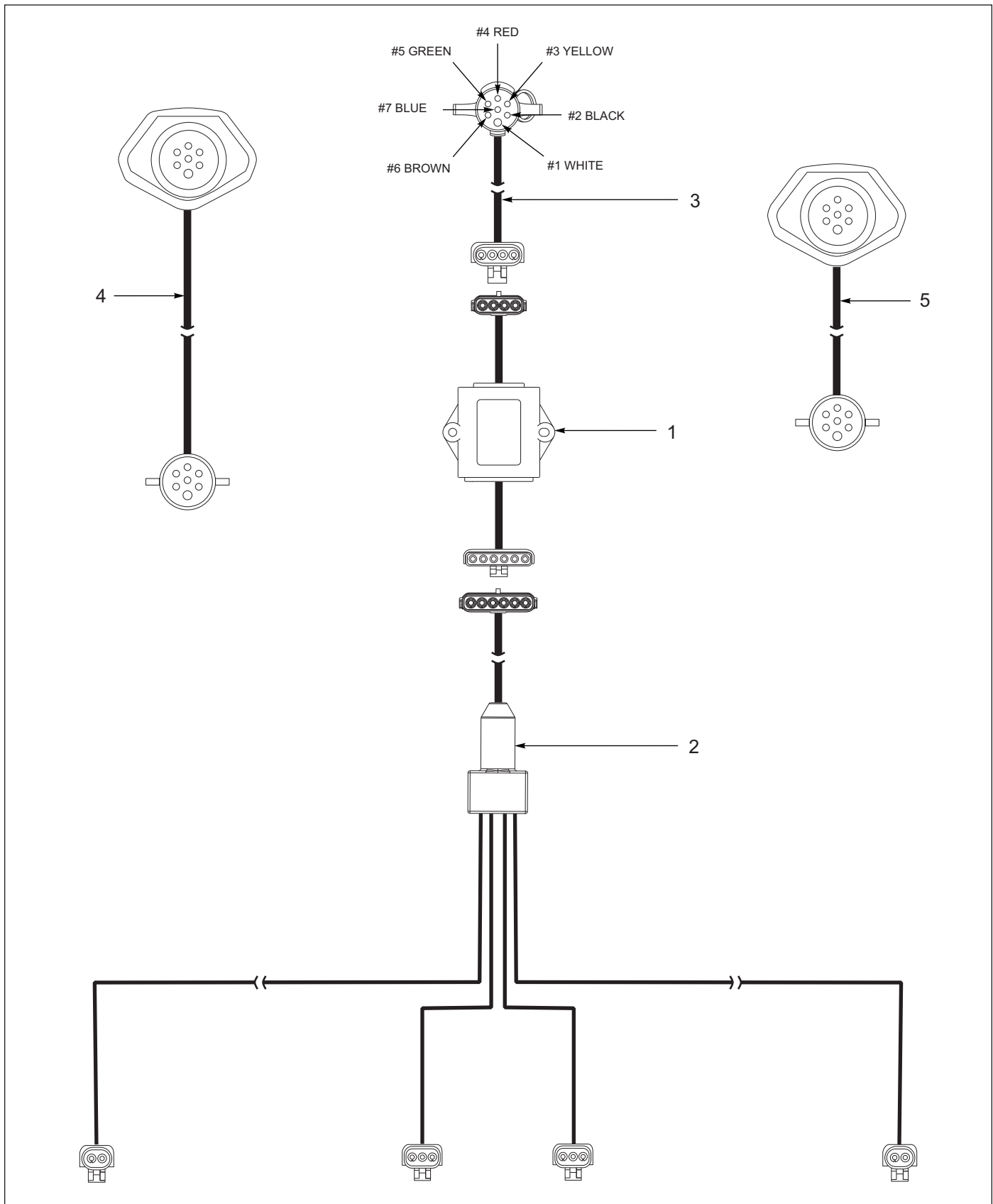


Figure 3-4: Wiring Diagram

## Wiring Diagram

| ITEM | PART NUMBER | DESCRIPTION                   | QTY. |
|------|-------------|-------------------------------|------|
| 1    | 174437      | MODULE, AG FLASHER CONTROL    | 1    |
| 2    | 175151      | HARNESS, LED WARNING LIGHTS   | 1    |
| 3    | 178514      | HARNESS,7 PIN/4PIN WP, 10'    | 1    |
| 4    | 221797      | HARNESS-EXTENSION, 7 WAY X24' | 1    |
| 5    | 223319      | HARNESS-EXTENSION, 7WAY X 18' | 1    |

Hydraulics

2512 Folding Frame Hydraulic Diagram (AFTER 11/01/2021)

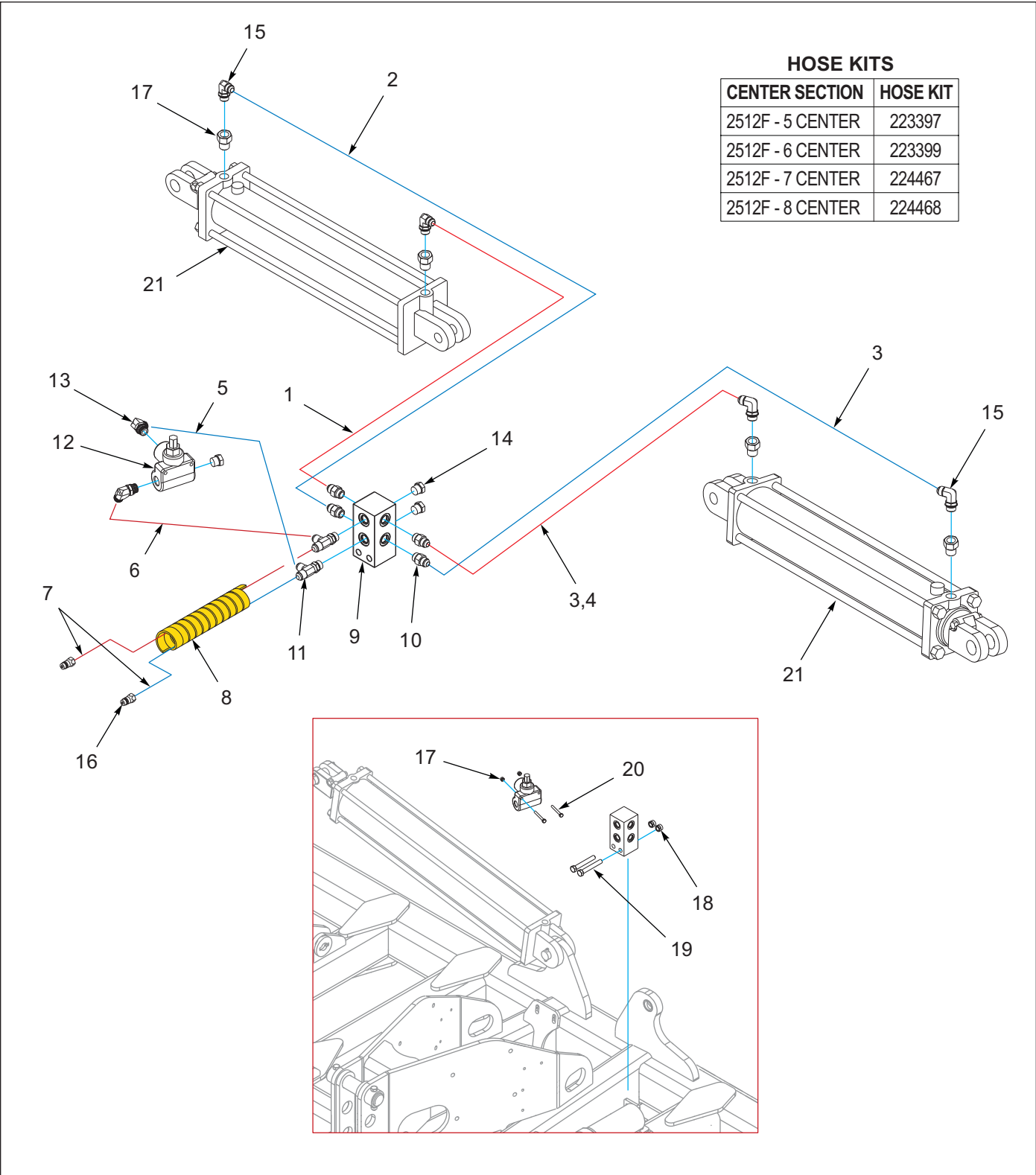


Figure 4-1: Folding Frame Hydraulic Diagram (AFTER 11/01/2021)

## 2512 Folding Frame Hydraulic Diagram (AFTER 11/01/2021)

| ITEM | PART NUMBER     | DESCRIPTION                                                                           | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------|------|
|      | 223397          | KIT-HYD,HOSE,2512F-5CT,RIPPER<br>(5 CENTER, MODELS 7, 9, 11N) (INCLUDES ITEMS 1 - 7)  | 1    |
|      | 223399          | KIT-HYD,HOSE,2512F-6CT,RIPPER<br>(6 CENTER, MODELS 8, 10, 12) (INCLUDES ITEMS 1 - 7)  | 1    |
|      | 224467          | KIT-HYD,HOSE,2512F-7CT,RIPPER<br>(7 CENTER, MODELS 11, 13, 15) (INCLUDES ITEMS 1 - 7) | 1    |
|      | 224468          | KIT-HYD,HOSE,2512F-8CT,RIPPER<br>(8 CENTER, MODELS 14, 16) (INCLUDES ITEMS 1 - 7)     | 1    |
|      | 223398          | KIT-HYD ADAPTER, RIPPER (INCLUDES ITEMS 8 - 20)                                       | 1    |
| 1    | 1-397-010369036 | HOSE ASSY 3/8X36,#8 JIC SWVL (5 CENTER) (RH)                                          | 1    |
| 1    | 208812          | HOSE ASSY, 3/8X52,-8FJX,-8FJX (6 CENTER) (RH)                                         | 1    |
| 1    | 122910          | HOSE ASSY 3/8X70,#8 JIC SWVL (7 CENTER) (RH)                                          | 1    |
| 1    | 122909          | HOSE ASSY 3/8X82,#8 JIC SWVL (8 CENTER) (RH)                                          | 1    |
| 2    | 147583          | HOSE ASSY 3/8X72 #8 JIC SWIV (5 CENTER) (RH)                                          | 1    |
| 2    | 192481          | HOSE ASSY 3/8 X 88 (6 CENTER) (RH)                                                    | 1    |
| 2    | 139213          | HOSE ASSY 3/8X105 #8JIC SWIVL (7 CENTER) (RH)                                         | 1    |
| 2    | 1422177         | HOSE ASM, 3/8 X 118.25 (8 CENTER) (RH)                                                | 1    |
| 3    | 186903          | HOSE ASM,3/8 X 44,8FJS ENDS (5 CENTER) (LH)                                           | 2    |
| 3    | 147584          | HOSE ASSY 3/8X40 #8 JIC SWIV (6 CENTER) (LH)                                          | 1    |
| 3    | 71508984        | HOSE .38 X 42 (7 CENTER) (LH)                                                         | 1    |
| 3    | 181801          | HOSE ASSY, 3/8X58 #8 JIC SWIV (8 CENTER) (LH)                                         | 1    |
| 4    | 116432          | HOSE ASSY, 3/8X60 #8 JIC SWV (6 CENTER) (LH)                                          | 1    |
| 4    | 209436          | HOSE ASSY, 3/8X76,-8FJX,-8FJX (7 CENTER) (LH)                                         | 1    |
| 4    | 116433          | HOSE ASSY 3/8X90 #8 JIC SWV (8 CENTER) (LH)                                           | 1    |
| 5    | 153841          | HOSE ASSY 3/8X18 #8 JIC SWIV                                                          | 1    |
| 6    | 71508954        | HOSE ASSY .38X22IN                                                                    | 1    |
| 7    | 141876          | HOSE ASSY 3/8X72 #8JICX#8OR                                                           | 2    |
| 8    | 155529          | HOSE WRAP, YELLOW 1" ID X 8"                                                          | 1    |
| 9    | 2-474-010022    | MANIFOLD HYDRAULIC, 6 HOSE                                                            | 1    |
| 10   | 202702-8-8S     | ADAPTER #8 O-RING TO #8 TUBE                                                          | 4    |
| 11   | 203005-8-8S     | ADAPTER,TEE,#8 O-RING-TUBE                                                            | 2    |
| 12   | 165287          | VALVE, RELIEF, 1000PSI                                                                | 1    |
| 13   | 2062-8-8S       | ADAPTER, 90, #8 O-RING-TUBE                                                           | 2    |
| 14   | 1-007-010025    | PLUG, 3/4-16 O-RING BOSS                                                              | 3    |
| 15   | 141826          | ELBOW 90 1/16 RES                                                                     | 4    |
| 16   | 141828          | COUPLER,MALE 3/4-16 O-RING                                                            | 2    |
| 17   | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                                                             | 2    |
| 18   | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                            | 2    |
| 19   | 1-654-010055-11 | SCREW,HX CP 1/2-13UNCX3-1/2                                                           | 2    |
| 20   | 111190          | SCREW HX CP 1/4-20UNCX2-1/4G5                                                         | 2    |
| 21   | 233870          | CYLINDER, HYD 5 X 30, 3000 PSI (SEE PAGE 4-24)                                        | 2    |

## 2512 Folding Frame Hydraulic Diagram (BEFORE 11/01/2021)

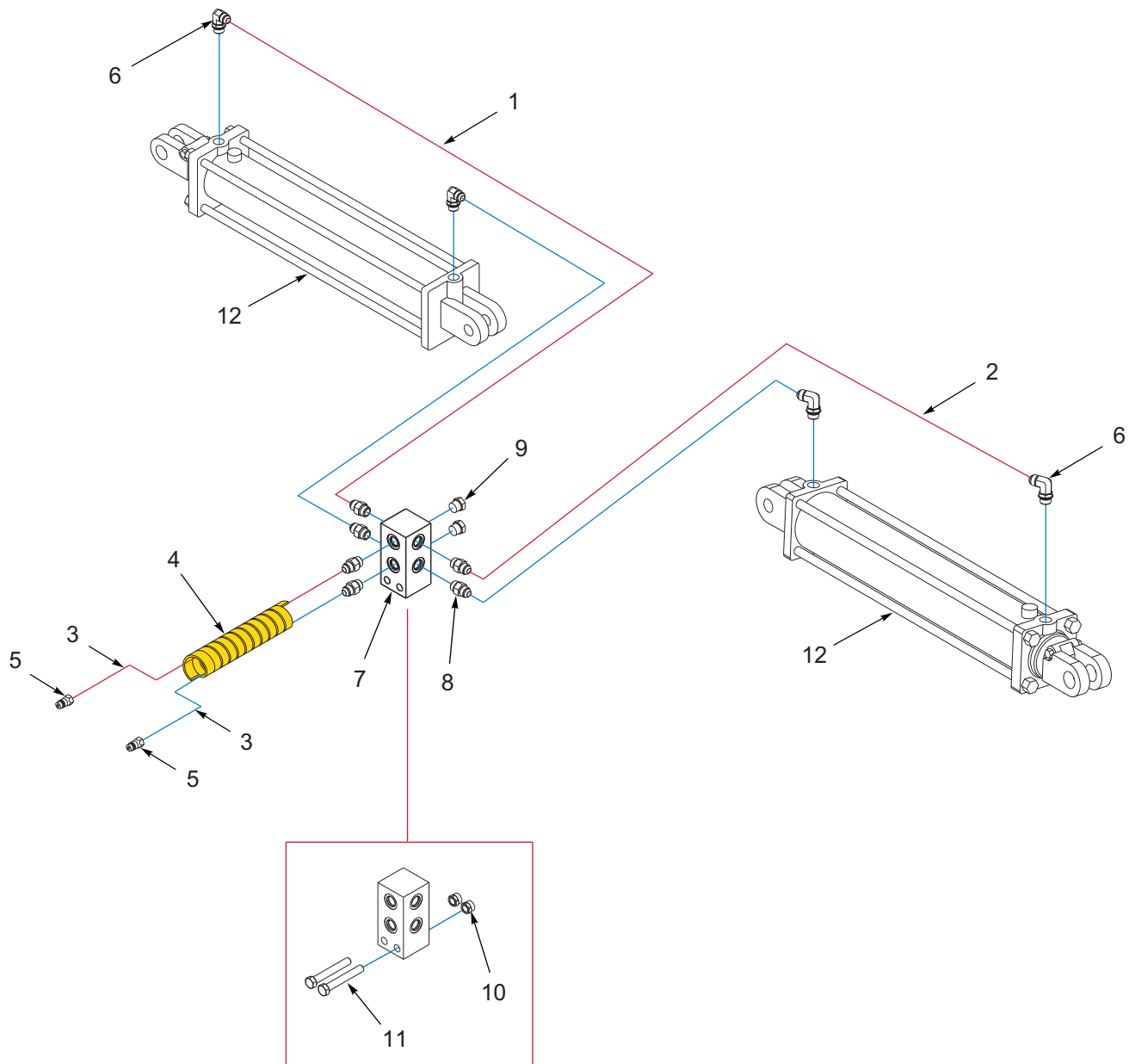


Figure 4-2: Folding Frame Hydraulic Diagram (BEFORE 11/01/2021)

## 2512 Folding Frame Hydraulic Diagram (BEFORE 11/01/2021)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                  | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------|------|
|      | 223397          | KIT-HYD,HOSE,2512F-5CT,RIPPER<br><b>(5 CENTER, MODELS 7, 9, 11N) (INCLUDES ITEMS 1 - 4)</b>  | 1    |
|      | 223399          | KIT-HYD,HOSE,2512F-6CT,RIPPER<br><b>(6 CENTER, MODELS 8, 10, 12) (INCLUDES ITEMS 1 - 4)</b>  | 1    |
|      | 224467          | KIT-HYD,HOSE,2512F-7CT,RIPPER<br><b>(7 CENTER, MODELS 11, 13, 15) (INCLUDES ITEMS 1 - 4)</b> | 1    |
|      | 224468          | KIT-HYD,HOSE,2512F-8CT,RIPPER<br><b>(8 CENTER, MODELS 14, 16) (INCLUDES ITEMS 1 - 4)</b>     | 1    |
|      | 223398          | KIT-HYD ADAPTER, RIPPER <b>(INCLUDES ITEMS 5 - 11)</b>                                       | 1    |
| 1    | 147584          | HOSE ASSY 3/8X40 #8 JIC SWIV <b>(5 CENTER)</b>                                               | 2    |
| 1    | 123547          | HOSE ASSY 3/8X56 #8 JIC SWIVL <b>(6 CENTER)</b>                                              | 2    |
| 1    | 122910          | HOSE ASSY 3/8X70,#8 JIC SWVL <b>(7 CENTER)</b>                                               | 2    |
| 1    | 71508987        | HOSE ASSY 3/8 X 86 <b>(8 CENTER)</b>                                                         | 2    |
| 2    | 147583          | HOSE ASSY 3/8X72 #8 JIC SWIV <b>(5 CENTER)</b>                                               | 2    |
| 2    | 192481          | HOSE ASSY 3/8 X 88 <b>(6 CENTER)</b>                                                         | 2    |
| 2    | 139213          | HOSE ASSY 3/8X105 #8JIC SWIVEL <b>(7 CENTER)</b>                                             | 2    |
| 2    | 166171          | HOSE ASSY 3/8X114 #8JIC SWIV <b>(8 CENTER)</b>                                               | 2    |
| 3    | 141876          | HOSE ASSY 3/8X72 #8JICX#8OR                                                                  | 2    |
| 4    | 155529          | HOSE WRAP, YELLOW 1" ID X 8"                                                                 | 1    |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                                                                   | 2    |
| 6    | 141826          | ELBOW 90 1/16 RES                                                                            | 4    |
| 7    | 2-474-010022    | MANIFOLD HYDRAULIC, 6 HOSE                                                                   | 1    |
| 8    | 202702-8-8S     | ADAPTER #8 O-RING TO #8 TUBE                                                                 | 6    |
| 9    | 1-007-010025    | PLUG, 3/4-16 O-RING BOSS                                                                     | 2    |
| 10   | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                   | 2    |
| 11   | 1-654-010055-11 | SCREW,HX CP 1/2-13UNCX3-1/2                                                                  | 2    |
| 12   | 108331          | CYLINDER, HYD 4X24 SP <b>(SEE PAGE 4-21)</b>                                                 | 2    |

Table provided for general use.

[illegible]

## 2512 Accumulator Bladder

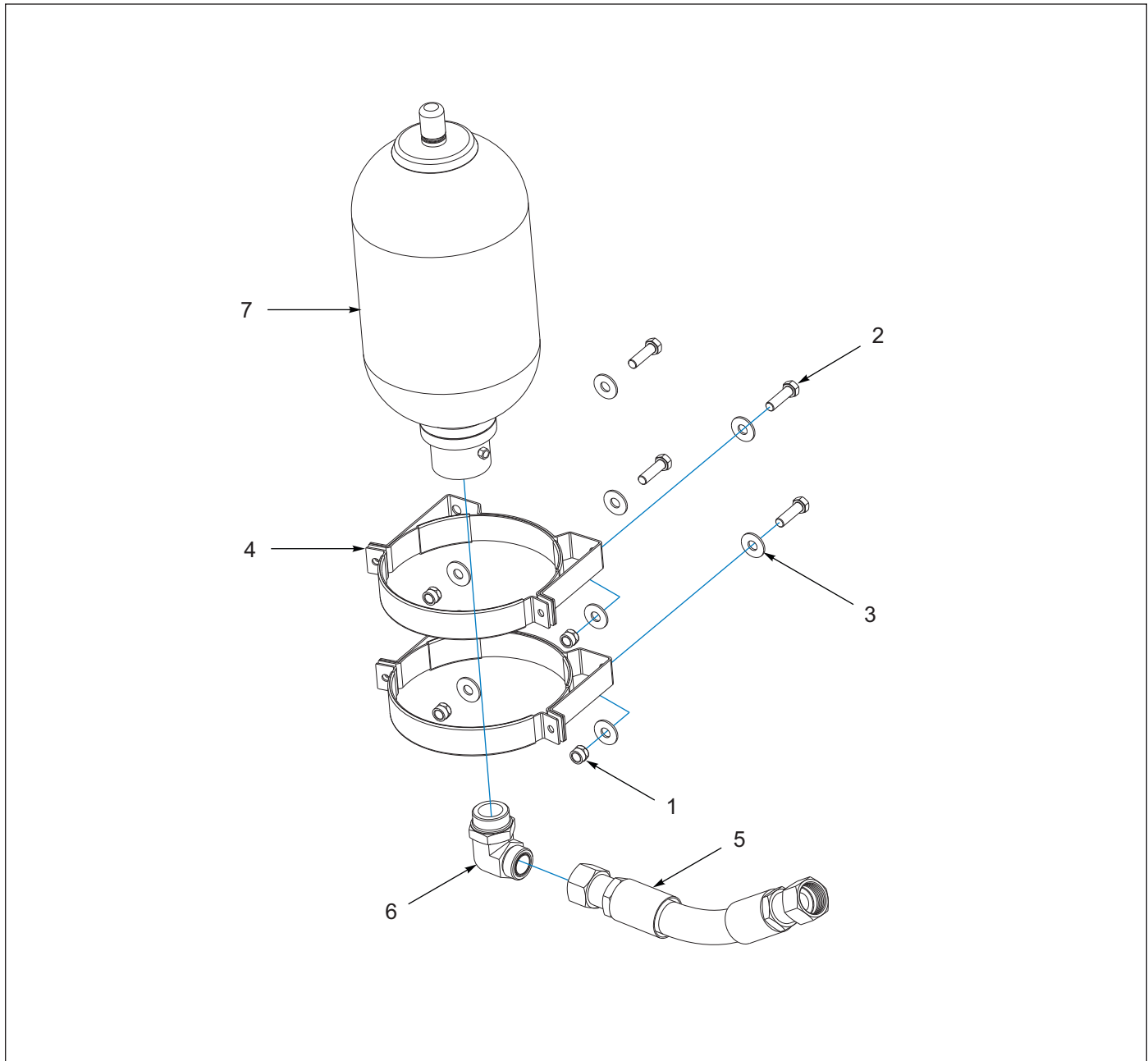


Figure 4-3: 2512 Accumulator Bladder

## 2512 Accumulator Bladder

| ITEM | PART NUMBER     | DESCRIPTION                                                           | QTY. |
|------|-----------------|-----------------------------------------------------------------------|------|
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                            | 18   |
| 2    | 1-654-010055-04 | SCREW,HEX CAP,1/2-13UNCX1-3/4                                         | 4    |
| 3    | 1-861-010032-14 | WASHER,FLAT 1/2" N ZP/CD                                              | 8    |
| 4    | 201321          | BRACKET-MOUNTING, ACCUMULATOR<br>(COMES WITH NUTS, WASHERS AND BOLTS) | 2    |
| 5    | 214307          | HOSE,HYD,1-1/4X15-7/32,ASM                                            | 1    |
| 6    | 214310          | ADAPTER,-20 ORS X -24ORB, 90                                          | 1    |
| 7    | 217183          | ACCUMULATOR-BLADR, 10 L.3000PSI                                       | 1    |

## HYDRAULICS

## 2512 Hydraulics, 4 Shank

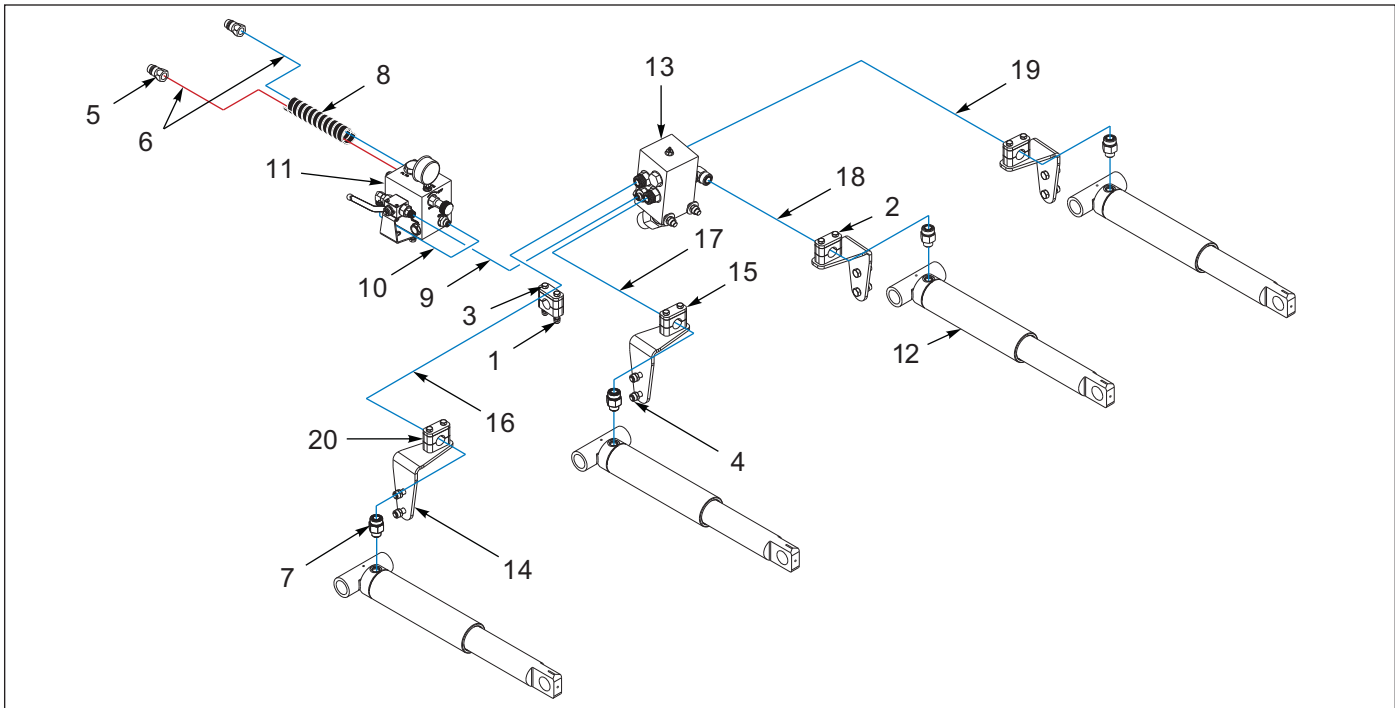


Figure 4-4: 2512 Hydraulics, 4 Shank

## 2512 Hydraulics, 4 Shank

| ITEM | PART NUMBER     | DESCRIPTION                                       | QTY. |
|------|-----------------|---------------------------------------------------|------|
|      | 214376          | KIT-HYDRAULIC, 2512-4                             | 1    |
|      | 217199          | KIT-HYDRAULIC, 2512-4,SETBACK                     | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                       | 10   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                       | 8    |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                     | 2    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                     | 8    |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                        | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                       | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS (AFTER 06/07/2023) | 4    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST (BEFORE 06/07/2023)  | 4    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                       | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                         | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                        | 1    |
| 11   | 203386          | MANIFOLD ASSY DRAFT COMP (SEE PAGE 4-17)          | 1    |
| 12   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)        | 4    |
| 13   | 214305          | MANIFOLD-SHANK CYLINDER, 2512 (SEE PAGE 4-20)     | 1    |
| 14   | 214315          | BRACKET-CLAMP, HOSE                               | 4    |
| 15   | 214346          | PLATE-COVER, CLAMP                                | 5    |
| 16   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S                      | 1    |
| 17   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S (WITHOUT SETBACK)    | 1    |
| 17   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S (WITH SETBACK)       | 1    |
| 18   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S                      | 1    |
| 19   | 217219          | HOSE, 3/4X87,-12ORS,-12ORS90S (WITHOUT SETBACK)   | 1    |
| 19   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S (WITH SETBACK)       | 1    |
| 20   | 217988          | CLAMP-HOSE, 1-1/8                                 | 5    |

## 2512 Hydraulics, 5 Shank

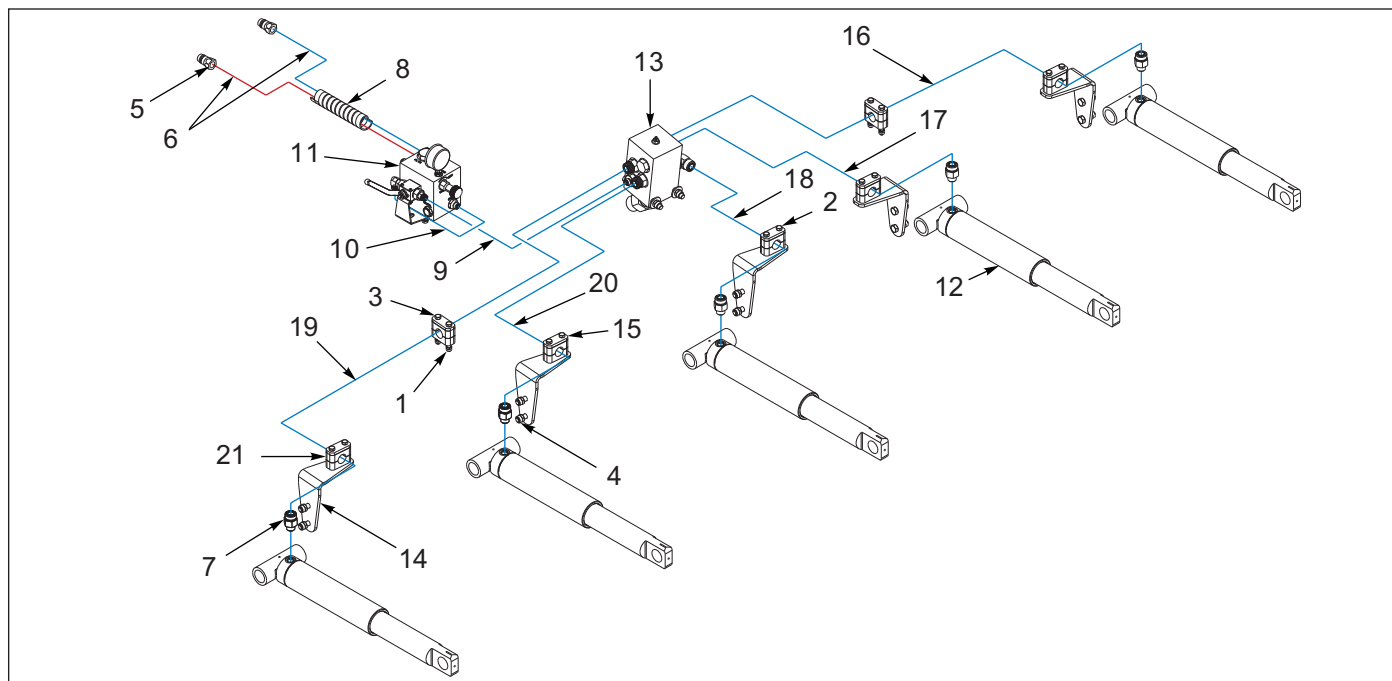


Figure 4-5: 2512 Hydraulics, 5 Shank

## 2512 Hydraulics, 5 Shank

| ITEM | PART NUMBER     | DESCRIPTION                                       | QTY. |
|------|-----------------|---------------------------------------------------|------|
|      | 214377          | KIT-HYDRAULIC, 2512-5                             | 1    |
|      | 217200          | KIT-HYDRAULIC, 2512-5,SETBACK                     | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                       | 14   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                       | 10   |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                     | 4    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                     | 8    |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                        | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                       | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS (AFTER 06/07/2023) | 5    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST (BEFORE 06/07/2023)  | 5    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                       | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                         | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                        | 1    |
| 11   | 203386          | MANIFOLD ASSY DRAFT COMP (SEE PAGE 4-17)          | 1    |
| 12   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP (SEE PAGE 4-22)        | 5    |
| 13   | 214305          | MANIFOLD-SHANK CYLINDER, 2512 (SEE PAGE 4-20)     | 1    |
| 14   | 214315          | BRACKET-CLAMP, HOSE                               | 5    |
| 15   | 214346          | PLATE-COVER, CLAMP                                | 5    |
| 16   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S                      | 1    |
| 17   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S (WITHOUT SETBACK)    | 1    |
| 17   | 217216          | HOSE, 3/4X77,-12ORS,-12ORS90S (WITH SETBACK)      | 1    |
| 18   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S                      | 1    |
| 19   | 217215          | HOSE 3/4X107,-12ORS,-12ORS90S                     | 1    |
| 20   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S (WITHOUT SETBACK)    | 1    |
| 20   | 217219          | HOSE 3/4X87,-12ORS,-12ORS90S (WITH SETBACK)       | 1    |
| 21   | 217988          | CLAMP-HOSE, 1-1/8                                 | 7    |

## 2512 Hydraulics, 6 Shank

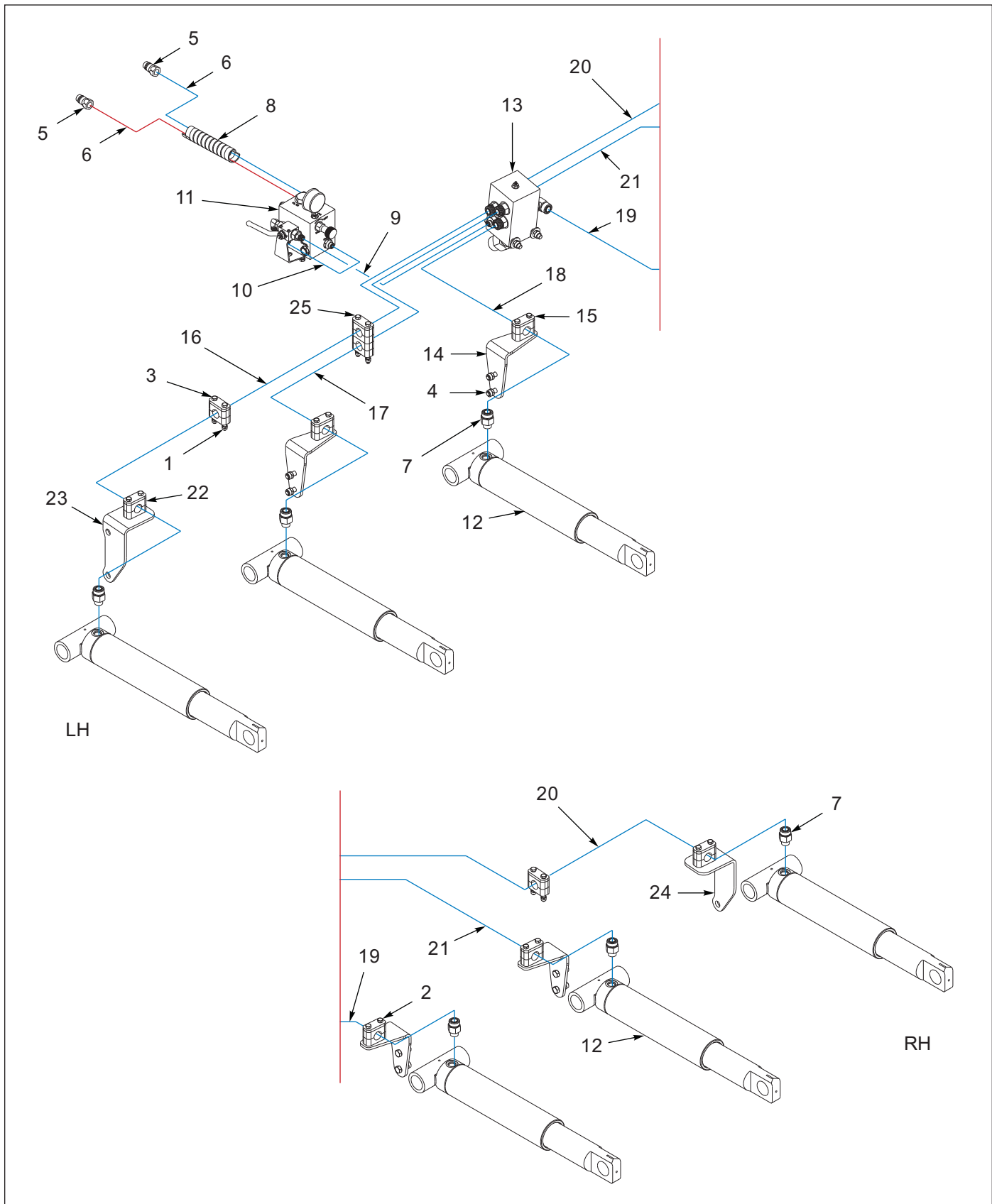


Figure 4-6: 2512 Hydraulics, 6 Shank

## 2512 Hydraulics, 6 Shank

| ITEM | PART NUMBER     | DESCRIPTION                                              | QTY. |
|------|-----------------|----------------------------------------------------------|------|
|      | 214378          | KIT-HYDRAULIC, 2512-6                                    | 1    |
|      | 217201          | KIT-HYDRAULIC, 2512-6,SETBACK                            | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                              | 18   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                              | 12   |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                            | 4    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                            | 8    |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                               | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                              | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS <b>(AFTER 06/07/2023)</b> | 6    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST <b>(BEFORE 06/07/2023)</b>  | 6    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                              | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                                | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                               | 1    |
| 11   | 203386          | MANIFOLD ASSY DRAFT COMP <b>(SEE PAGE 4-17)</b>          | 1    |
| 12   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP <b>(SEE PAGE 4-22)</b>        | 6    |
| 13   | 214305          | MANIFOLD-SHANK CYLINDER, 2512 <b>(SEE PAGE 4-20)</b>     | 1    |
| 14   | 214315          | BRACKET-CLAMP, HOSE                                      | 4    |
| 15   | 214346          | PLATE-COVER, CLAMP                                       | 9    |
| 16   | 217210          | HOSE 3/4X127,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>   | 1    |
| 16   | 217214          | HOSE 3/4X137,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>      | 1    |
| 17   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S                             | 1    |
| 18   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>    | 1    |
| 18   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>       | 1    |
| 19   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S                             | 1    |
| 20   | 217217          | HOSE 3/4X107,-12ORS,-12ORS90S                            | 1    |
| 21   | 217219          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>    | 1    |
| 21   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>       | 1    |
| 22   | 217988          | CLAMP-HOSE, 1-1/8                                        | 10   |
| 23   | 214260          | BRACKET-MOUNT, HOSE CLAMP, LH                            | 1    |
| 24   | 214261          | BRACKET-MOUNT, HOSE CLAMP, RH                            | 1    |
| 25   | 185216          | SCREW,HXCAP3/8-16UNCX5-1/4GR5                            | 2    |

## 2512 Hydraulics, 7 Shank (Rigid and Folding)

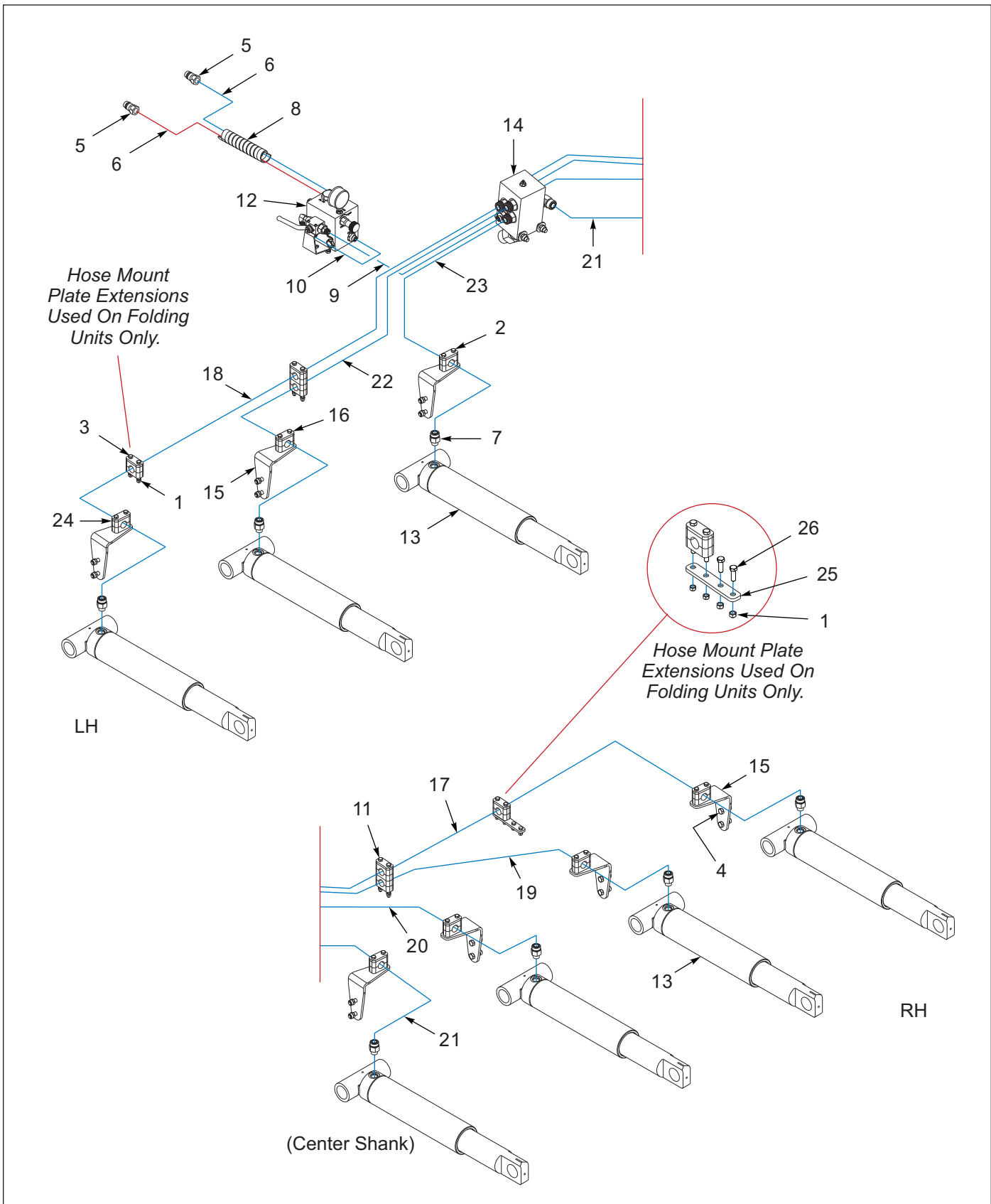


Figure 4-7: 2512 Hydraulics, 7 Shank (Rigid and Folding)

## 2512 Hydraulics, 7 Shank (Rigid and Folding)

| ITEM | PART NUMBER     | DESCRIPTION                                                     | QTY. |
|------|-----------------|-----------------------------------------------------------------|------|
|      | 214297          | KIT-HYDRAULIC, 2512-7 <b>(RIGID)</b>                            | 1    |
|      | 217202          | KIT-HYDARULIC, 2512-7, SETBACK <b>(RIGID)</b>                   | 1    |
|      | 221737          | KIT-HYD HOSE, 2512F-7 <b>(FOLDING)</b>                          | 1    |
|      | 221747          | KIT-HYD,HOSE,2512F-7,W/SB <b>(FOLDING)</b>                      | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                     | 26   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                                     | 14   |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                                   | 4    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                                   | 14   |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                                      | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                                     | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS <b>(AFTER 06/07/2023)</b>        | 7    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST <b>(BEFORE 06/07/2023)</b>         | 7    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                                     | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                                       | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                                      | 1    |
| 11   | 185216          | SCREW, HEX CAP 3/8-16UNCX5-184 GR5                              | 4    |
| 12   | 203386          | MANIFOLD ASSY DRAFT COMP <b>(SEE PAGE 4-17)</b>                 | 1    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP <b>(SEE PAGE 4-22)</b>               | 7    |
| 14   | 214305          | MANIFOLD-SHANK CYLINDER, 2512 <b>(SEE PAGE 4-20)</b>            | 1    |
| 15   | 214315          | BRACKET-CLAMP, HOSE                                             | 7    |
| 16   | 214346          | PLATE-COVER, CLAMP                                              | 11   |
| 17   | 227280          | HOSE,3/4X142,-12ORS,-12ORS90S <b>(FOLDING AFTER 11/01/2021)</b> |      |
| 17   | 217210          | HOSE 3/4X127,-12ORS,-12ORS90S <b>(RIGID)</b>                    | 1    |
| 18   | 227281          | HOSE,3/4X152,-12ORS,-12ORS90S <b>(FOLDING AFTER 11/01/2021)</b> | 1    |
| 18   | 217214          | HOSE 3/4X137,-12ORS,-12ORS90S <b>(RIGID)</b>                    | 1    |
| 19   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>           | 1    |
| 19   | 217215          | HOSE 3/4X107,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>             | 1    |
| 20   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S                                    | 1    |
| 21   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>           | 1    |
| 21   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>              | 1    |
| 22   | 217215          | HOSE 3/4X107,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>          | 1    |
| 22   | 217217          | HOSE,3/4X117,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>             | 1    |
| 23   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S                                    | 1    |
| 24   | 217988          | CLAMP-HOSE, 1-1/8                                               | 13   |
| 25   | 227876          | PLATE-EXTENSION, HOSE MOUNT <b>(FOLDING UNITS ONLY)</b>         | 6    |
| 26   | 1-654-010051-07 | SCREW, HEX CAP, 3/8-16UNCX1-1/2 <b>(FOLDING UNITS ONLY)</b>     | 4    |

## 2512 Hydraulics, 8 Shank (Rigid and Folding)

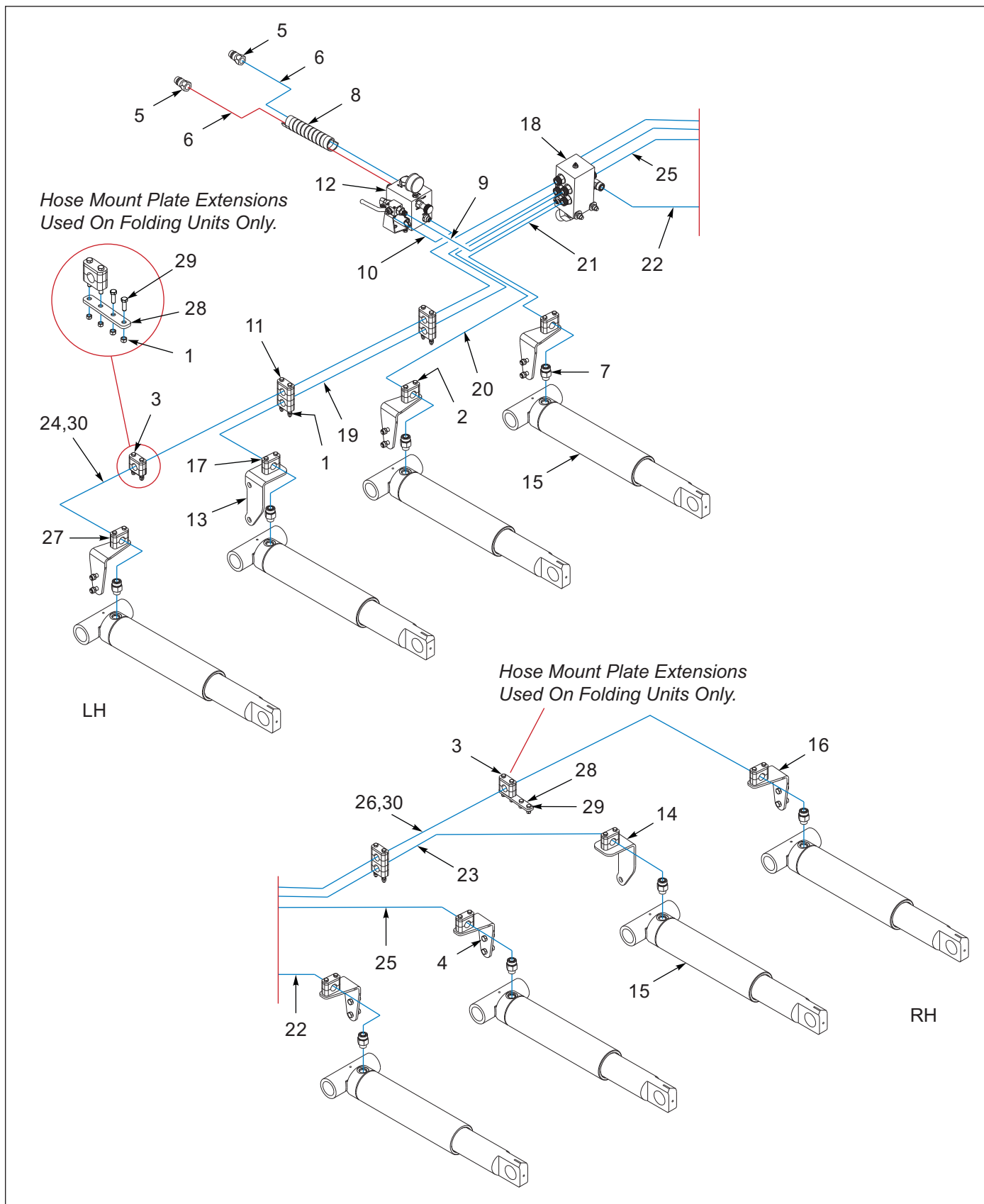


Figure 4-8: 2512 Hydraulics, 8 Shank (Rigid and Folding)

## 2512 Hydraulics, 8 Shank (Rigid and Folding)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                            | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 214381          | KIT-HYDRAULIC, 2512-8 <b>(RIGID)</b>                                                                                                   | 1    |
|      | 217203          | KIT-HYRDAULIC, 2512-8,SETBACK <b>(RIGID)</b>                                                                                           | 1    |
|      | 221738          | KIT-HYD,HOSE,2512F-8 <b>(FOLDING)</b>                                                                                                  | 1    |
|      | 221748          | KIT-HYD,HOSE,2512F-8,W/SB <b>(FOLDING)</b>                                                                                             | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                                            | 30   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                                                                                                            | 16   |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                                                                                                          | 4    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                                                                                                          | 12   |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                                                                                                             | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                                                                                                            | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS <b>(AFTER 06/07/2023)</b>                                                                               | 8    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST <b>(BEFORE 06/07/2023)</b>                                                                                | 8    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                                                                                                            | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                                                                                                              | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                                                                                                             | 1    |
| 11   | 185216          | SCREW, HEX CAP 3/8-16UNCX5-184 GR5                                                                                                     | 6    |
| 12   | 203386          | MANIFOLD ASSY DRAFT COMP <b>(SEE PAGE 4-17)</b>                                                                                        | 1    |
| 13   | 214260          | BRACKET-MOUNT, HOSE CLAMP, LH                                                                                                          | 1    |
| 14   | 214261          | BRACKET-MOUNT, HOSE CLAMP, RH                                                                                                          | 1    |
| 15   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP <b>(SEE PAGE 4-22)</b>                                                                                      | 8    |
| 16   | 214315          | BRACKET-CLAMP, HOSE                                                                                                                    | 6    |
| 17   | 214346          | PLATE-COVER, CLAMP                                                                                                                     | 13   |
| 18   | 214355          | MANIFOLD-SHANK CYLINDER, 2512 <b>(SEE PAGE 4-20)</b>                                                                                   | 1    |
| 19   | 217210          | HOSE 3/4X127,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>                                                                                 | 1    |
| 19   | 217214          | HOSE 3/4X137,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>                                                                                    | 1    |
| 20   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S                                                                                                           | 1    |
| 21   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>                                                                                  | 1    |
| 21   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>                                                                                     | 1    |
| 22   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S                                                                                                           | 1    |
| 23   | 217217          | HOSE 3/4X117,-12ORS,-12ORS90S                                                                                                          | 1    |
| 24   | 217218          | HOSE, 3/4X157,-12ORS,-12ORS90S <b>(BEFORE 11/01/2021)</b><br><b>(SEE #30 FOR AFTER 11/01/2021)</b>                                     | 1    |
| 25   | 217219          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>                                                                                  | 1    |
| 25   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>                                                                                     | 1    |
| 26   | 227282          | HOSE,3/4X163,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b><br><b>(AFTER 11/01/2021)</b>                                                    | 1    |
| 26   | 217220          | HOSE, 3/4X147,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b><br><b>(BEFORE 11/01/2021)</b>                                                  | 1    |
| 26   | 217218          | HOSE 3/4X157,-12ORS,-12ORS90S<br><b>(WITH SETBACK BEFORE 11/01/2021)</b><br><b>(SEE #30 FOR WITH SETBACK AFTER 11/01/2021)</b>         | 1    |
| 27   | 217988          | CLAMP-HOSE, 1-1/8                                                                                                                      | 18   |
| 28   | 227876          | PLATE-EXTENSION, HOSE MOUNT <b>(FOLDING UNITS ONLY)</b>                                                                                | 6    |
| 29   | 1-654-010051-07 | SCREW, HEX CAP, 3/8-16UNCX1-1/2 <b>(FOLDING UNITS ONLY)</b>                                                                            | 4    |
| 30   | 227283          | HOSE,3/4X172,-12ORS,-12ORS90S <b>(AFTER 11/01/2021)</b><br><b>(OUTER LH HOSE, QTY=1)</b><br><b>(OUTER RH HOSE WITH SETBACK, QTY=1)</b> | REF  |

## 2512 Hydraulics, 9 Shank (Folding)

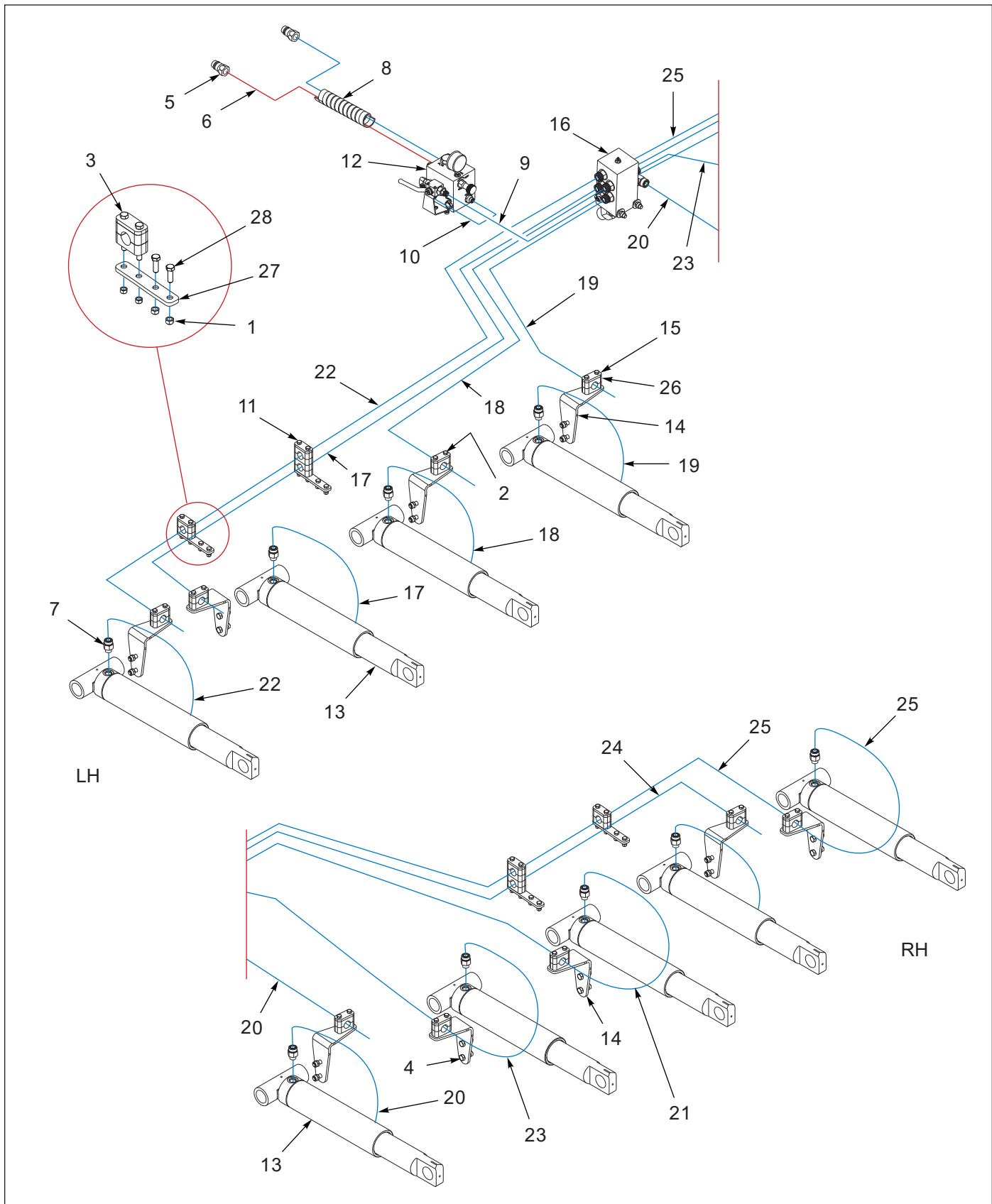


Figure 4-9: 2512 Hydraulics, 9 Shank (Folding)

## 2512 Hydraulics, 9 Shank (Folding)

| ITEM | PART NUMBER     | DESCRIPTION                                                 | QTY. |
|------|-----------------|-------------------------------------------------------------|------|
|      | 221739          | KIT-HYD,HOSE,2512F-9                                        | 1    |
|      | 221749          | KIT-HYD,HOSE,2512F-9,W/SB                                   | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                 | 26   |
| 2    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                                 | 14   |
| 3    | 1-654-010051-14 | SCREW HX CP 3/8-16UNCX3-1/4G5                               | 4    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                               | 14   |
| 5    | 141828          | COUPLER,MALE 3/4-16 O-RING                                  | 2    |
| 6    | 141877          | HOSE ASSY 3/8X75 #8JICX#8OR                                 | 2    |
| 7    | 247304          | ADAPTER,FLOW CK,-10 ORB,-12ORS <b>(AFTER 06/07/2023)</b>    | 9    |
| 7    | 142337          | ADAPTER,#12 ORS X #10 ORB ST <b>(BEFORE 06/07/2023)</b>     | 9    |
| 8    | 155530          | HOSE WRAP, BLACK 1" ID X 8"                                 | 1    |
| 9    | 156318          | HOSE,6ORS-STX6ORS-STX6-30                                   | 1    |
| 10   | 162572          | HOSE,6ORS-STX6ORS-90MX6-26                                  | 1    |
| 11   | 185216          | SCREW, HEX CAP 3/8-16UNCX5-184 GR5                          | 4    |
| 12   | 203386          | MANIFOLD ASSY DRAFT COMP <b>(SEE PAGE 4-17)</b>             | 1    |
| 13   | 209372          | CYLINDER-SA,3 X 9-1/2 DISP <b>(SEE PAGE 4-22)</b>           | 9    |
| 14   | 214315          | BRACKET-CLAMP, HOSE                                         | 9    |
| 15   | 214346          | PLATE-COVER, CLAMP                                          | 11   |
| 16   | 214355          | MANIFOLD-SHANK CYLINDER, 2512 <b>(SEE PAGE 4-20)</b>        | 1    |
| 17   | 227281          | HOSE 3/4X152,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>      | 1    |
| 17   | 227282          | HOSE 3/4X162,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>         | 1    |
| 18   | 217215          | HOSE 3/4X107,-12ORS,-12ORS90S                               | 1    |
| 19   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>       | 1    |
| 19   | 217219          | HOSE 3/4X87,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>          | 1    |
| 20   | 217213          | HOSE 3/4X55,-12ORS,-12ORS90S                                | 1    |
| 21   | 217211          | HOSE 3/4X97,-12ORS,-12ORS90S                                | 1    |
| 22   | 227284          | HOSE,3/4X182,-12ORS,-12ORS90S <b>(AFTER 11/01/2021)</b>     | 1    |
| 22   | 217221          | HOSE, 3/4X167,-12ORS,-12ORS90S <b>(BEFORE 11/01/2021)</b>   | 1    |
| 23   | 217212          | HOSE 3/4X67,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>       | 1    |
| 23   | 217216          | HOSE 3/4X77,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>          | 1    |
| 24   | 227280          | HOSE, 3/4X142,-12ORS,-12ORS90S <b>(WITHOUT SETBACK)</b>     | 1    |
| 24   | 217281          | HOSE, 3/4X152,-12ORS,-12ORS90S <b>(WITH SETBACK)</b>        | 1    |
| 25   | 227283          | HOSE,3/4X172,-12ORS,-12ORS90S <b>(AFTER 11/01/2021)</b>     | 1    |
| 25   | 217218          | HOSE,3/4X157,-12ORS,-12ORS90S <b>(BEFORE 11/01/2021)</b>    | 1    |
| 26   | 217988          | CLAMP-HOSE, 1-1/8                                           | 15   |
| 27   | 227876          | PLATE-EXTENSION, HOSE MOUNT <b>(FOLDING UNITS ONLY)</b>     | 8    |
| 28   | 1-654-010051-07 | SCREW, HEX CAP, 3/8-16UNCX1-1/2 <b>(FOLDING UNITS ONLY)</b> | 8    |

## Manifold-Draft Assembly

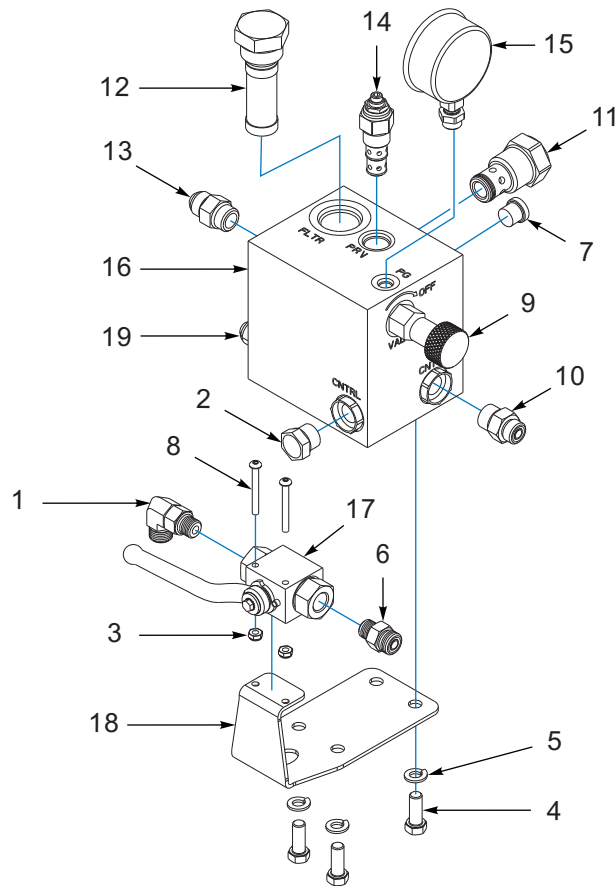


Figure 4-10: Manifold-Draft Assembly

## Manifold-Draft Assembly

| ITEM | PART NUMBER     | DESCRIPTION                    | QTY. |
|------|-----------------|--------------------------------|------|
| 1    | 0018136         | ADAPTER,6ORSX6ORB, 90 S        | 1    |
| 2    | 1-007-010025    | PLUG, 3/4-16 O-RING BOSS       | 1    |
| 3    | 1-512-010003-05 | NUT HEX SLFLKG W/NYL 10-32     | 2    |
| 4    | 1-654-010051-05 | SCREW,HEX CAP 3/8-16UNCX1 GR5  | 3    |
| 5    | 1-861-010034-11 | WASHER, LKG HLCL SPR, 3/8      | 3    |
| 6    | 104582          | ADAPTER,#6 ORS X #6 ORB ST     | 1    |
| 7    | 121028          | PLUG #4 SAE M O-R BOSS HX SKT  | 2    |
| 8    | 146693          | SCREW, BHSC, 10-32 X 1.75      | 2    |
| 9    | 171000          | CARTRIDGE, SHUT OFF VALVE      | 1    |
| 10   | 189872          | ADAPTER,#6ORS X #8ORB STR      | 1    |
| 11   | 195196          | VALVE - CHECK, CVH103PV        | 1    |
| 12   | 195198          | FILTER-HIGH PRESS, CF/CE-12-10 | 1    |
| 13   | 202702-8-8S     | ADAPTER #8 O-RING TO #8 TUBE   | 1    |
| 14   | 201283          | VALVE-PRESS RED RELV 600-3000  | 1    |
| 15   | 201291          | GAUGE-HYD PRESSURE,3000,-4 ORB | 1    |
| 16   | 203384          | MANIFOLD DRAFT COMP            | 1    |
| 17   | 214319          | VALVE-BALL, -6 SAE             | 1    |
| 18   | 214384          | BRACKET-VALVE MOUNT            | 1    |
| 19   | 4K607           | RESTRICTOR 3/4-16              | 1    |

## Manifold-Shank Cylinder Assembly

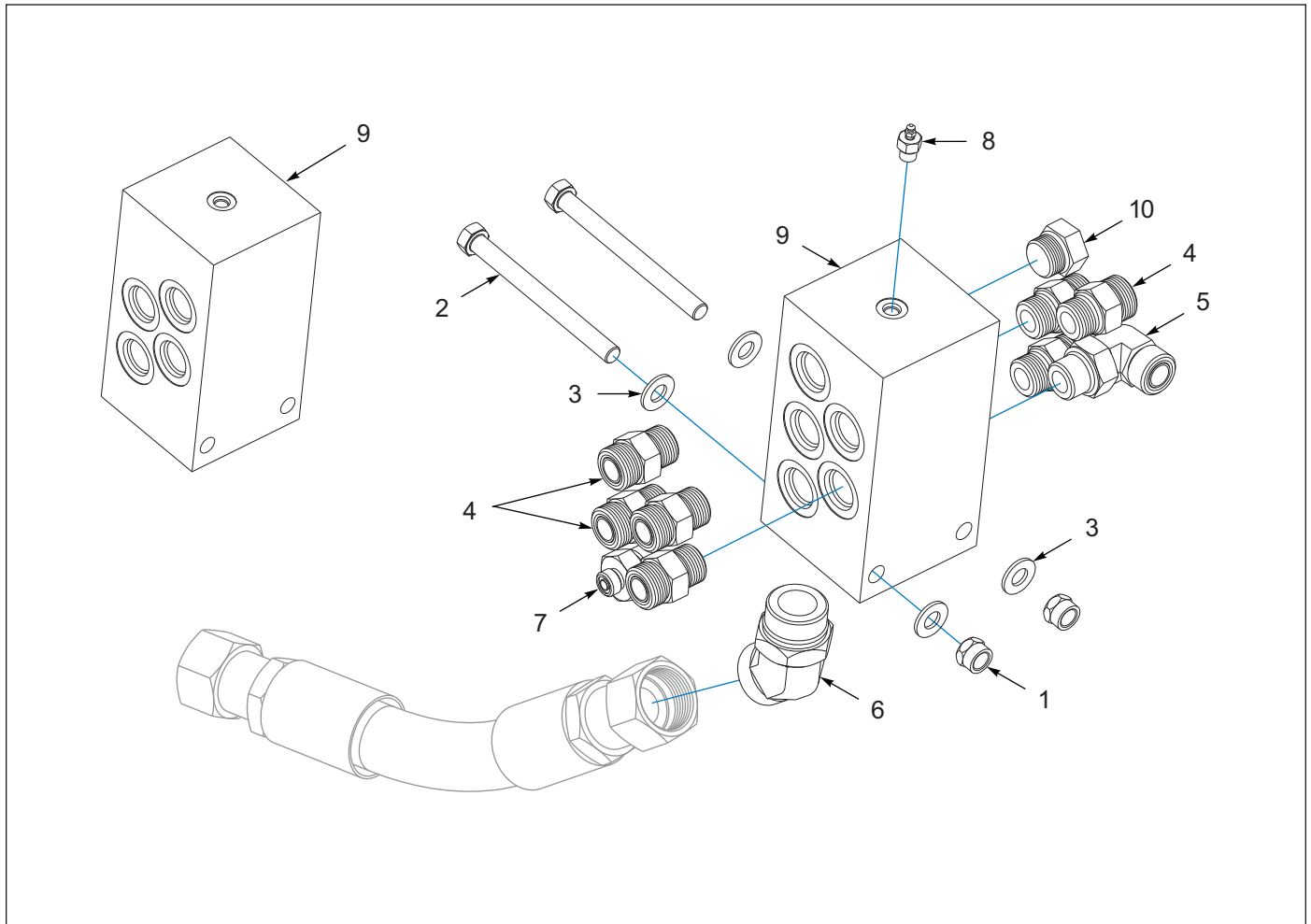


Figure 4-11: Manifold-Shank Cylinder Assembly

## Manifold-Shank Cylinder Assembly

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                             | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|
| 1    | 1-512-010005-09 | NUT, HEX, SLFLKG, 1/2-13 GRB                                                                                                            | 2    |
| 2    | 1-654-010055-16 | SCREW HEX CAP 1/2-13X5-1/2GR5                                                                                                           | 2    |
| 3    | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD                                                                                                               | 4    |
| 4    | 104382          | ADAPTER, #12 ORS X #12 ORB STP<br>(QTY SUBJECT TO MANIFOLD AND MODEL)                                                                   | REF  |
| 5    | 110116          | ADAPTER, #12 ORB X #12 ORS 90DEG                                                                                                        | 1    |
| 6    | 171589          | ADAPTER, #20 ORS X #20 ORB, 45 ELB                                                                                                      | 1    |
| 7    | 171591          | ADAPTER, #6 ORS X #12 ORB, STR                                                                                                          | 1    |
| 8    | 189739          | ASSY, #4 ORB BLEEDER PLUG                                                                                                               | 1    |
| 9    | 214355          | MANIFOLD-SHANK CYLINDER, 2512<br>(8R, 8R W/SB, 8F, 8F W/SB, 9F, 9F W/SB, 10F, 10F W/SB,<br>12F, 12F W/SB, 14F, 14F W/SB, 16F, 16F W/SB) | 1    |
| 9    | 214305          | MANIFOLD-SHANK CYLINDER, 2512<br>(4R, 4R W/SB, 5R, 5R W/SB, 6R, 6R W/SB, 7R, 7R W/SB,<br>7F, 7F W/SB)                                   | 1    |
| 10   | 900598-12S      | PLUG, O-RING BOSS #12                                                                                                                   | 1    |

## Wing Lock Kit - Optional

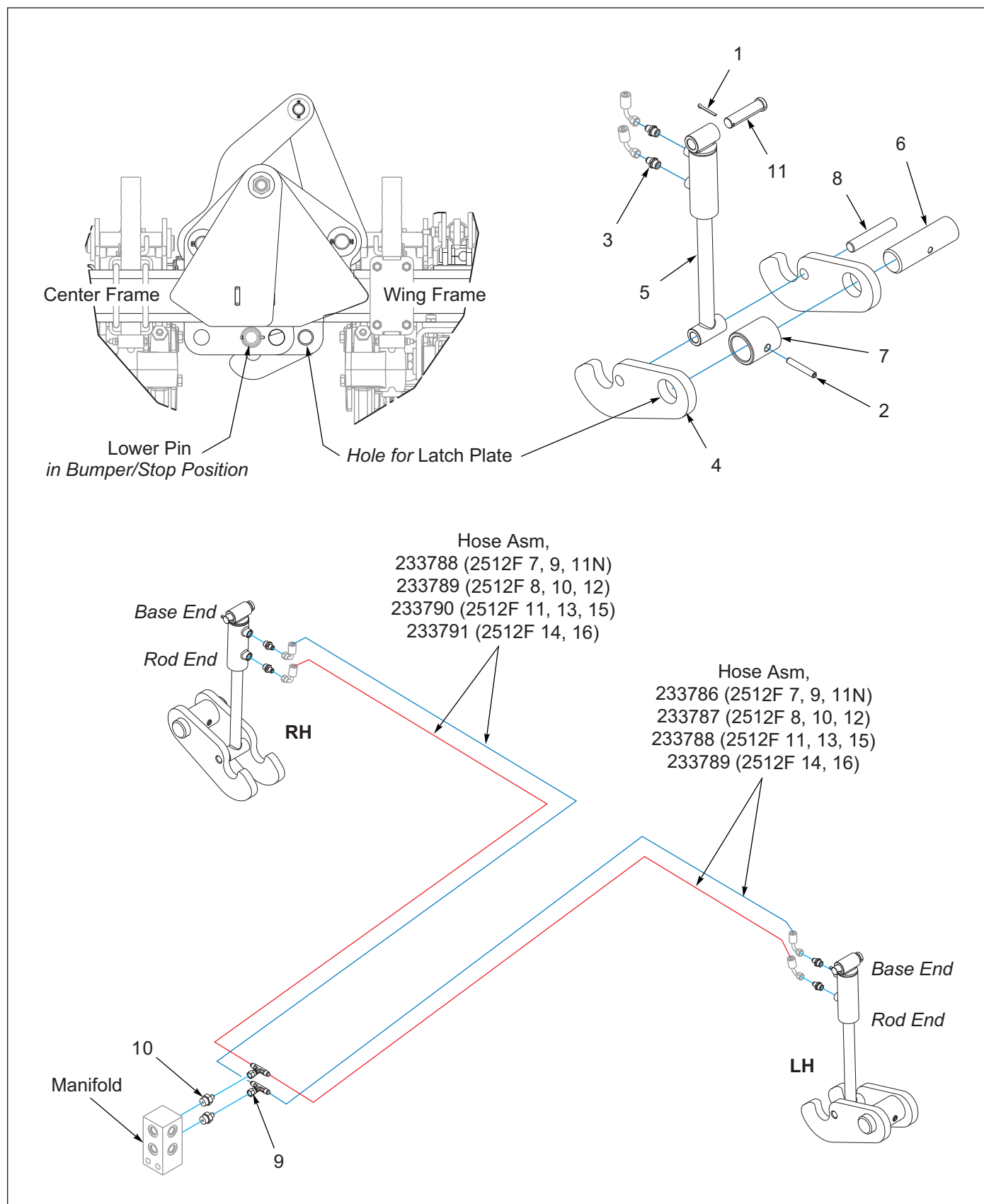


Figure 4-12: Wing Lock Kit - Optional

## Wing Lock Kit - Optional

| ITEM | PART NUMBER     | DESCRIPTION                                             | QTY. |    |    |    |
|------|-----------------|---------------------------------------------------------|------|----|----|----|
|      | 233782          | KIT-HYDR WING LOCK,2512F, 5CT <b>(2512F 7, 9, 11N)</b>  | 1    | -- | -- | -- |
|      | 233783          | KIT-HYDR WING LOCK,2512F, 6CT <b>(2512F 8, 10, 12)</b>  | --   | 1  | -- | -- |
|      | 233784          | KIT-HYDR WING LOCK,2512F, 7CT <b>(2512F 11, 13, 15)</b> | --   | -- | 1  | -- |
|      | 233785          | KIT-HYDR WING LOCK,2512F, 8CT <b>(2512F 14, 16)</b>     | --   | -- | -- | 1  |
| 1    | 1-557-010362-40 | PIN, COTTER 5/32X1-1/4                                  | 2    | 2  | 2  | 2  |
| 2    | 1-647-010004257 | PIN,SPRING,SLOTTED 3/8X2-1/2                            | 2    | 2  | 2  | 2  |
| 3    | 202702-6-4S     | ADAPTER,STR,#6 O-RING X #4JIC                           | 4    | 4  | 4  | 4  |
| 4    | 230889          | PLATE-LATCH                                             | 4    | 4  | 4  | 4  |
| 5    | 230890          | CYLINDER,1-1/2X1-1/2,3000PSI <b>(SEE PAGE 4-21)</b>     | 2    | 2  | 2  | 2  |
| 6    | 230894          | PIN-LATCH, WING LOCK                                    | 2    | 2  | 2  | 2  |
| 7    | 230895          | SLEEVE-SPACKER, LATCH                                   | 2    | 2  | 2  | 2  |
| 8    | 230896          | PIN-CYLINDER, LATCH                                     | 2    | 2  | 2  | 2  |
| 9    | 233781          | ADAPTER-TEE,6600-04,04,04                               | 2    | 2  | 2  | 2  |
| 10   | 40-0665-02      | ADAPTER,ST,37 FLARE,OR, 4-8                             | 2    | 2  | 2  | 2  |
| 11   | 7D642           | CLEVIS PIN                                              | 2    | 2  | 2  | 2  |
| 12   | 233786          | HOSE, 1/4X74,04FJX,04FX90S                              | 2    | -- | -- | -- |
| 13   | 233788          | HOSE, 1/4X104,04FJX,04FX90S                             | 2    | -- | 2  | -- |
| 14   | 233787          | HOSE, 1/4X89,04FJX,04FX90S                              | --   | 2  | -- | -- |
| 15   | 233789          | HOSE, 1/4X119,04FJX,04FX90S                             | --   | 2  | -- | 2  |
| 16   | 233790          | HOSE, 1/4X134,04FJX,04FX90S                             | --   | -- | 2  | -- |
| 17   | 233791          | HOSE, 1/4X149,04FJX,04FX90S                             | --   | -- | -- | 2  |

## Hydraulic Cylinder, 1-1/2 x 1-1/2 - 230890

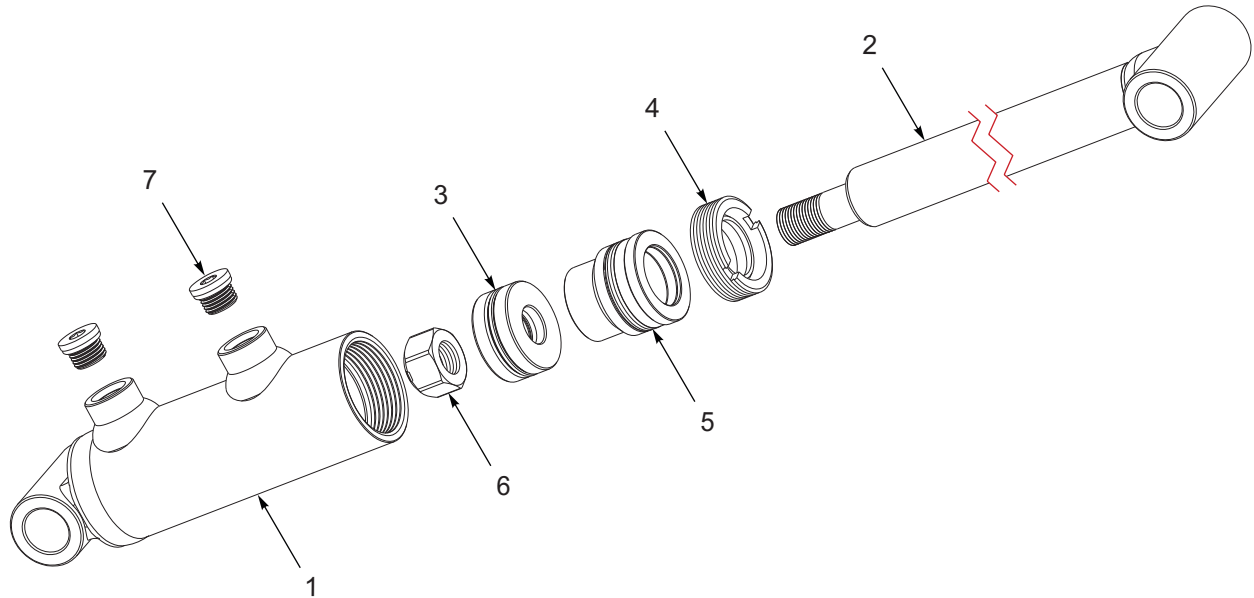


Figure 4-13: Hydraulic Cylinder, 1-1/2 x 1-1/2 - 230890

## Hydraulic Cylinder, 1-1/2 x 1-1/2 - 230890

| ITEM | PART NUMBER | DESCRIPTION                             | QTY. |
|------|-------------|-----------------------------------------|------|
|      | 230890      | CYLINDER,1-1/2X1-1/2,3000PSI (LOCK KIT) | 1    |
| 1    | -----       | BARREL ASM                              | 1    |
| 2    | -----       | ROD ASM                                 | 1    |
| 3    | -----       | PISTON CR 1-1/2" OD X 5/8" ID X .700 LG | 1    |
| 4    | -----       | RETAINER, 1-1/2" OD X 1" ID X 1/2" LG   | 1    |
| 5    | -----       | BEARING 1-1/2" OD X 1" ID X 1-1/2" LG   | 1    |
| 6    | -----       | LOCKNUT 5/8"                            | 1    |
| 7    | -----       | 9/16 SAE PLUG (2A0126)                  | 2    |
| 8    | 240161      | KIT, SEAL, 230890 CYL                   | 1    |

**Hydraulic Cylinder, 3 x 9-1/2 - 209372**

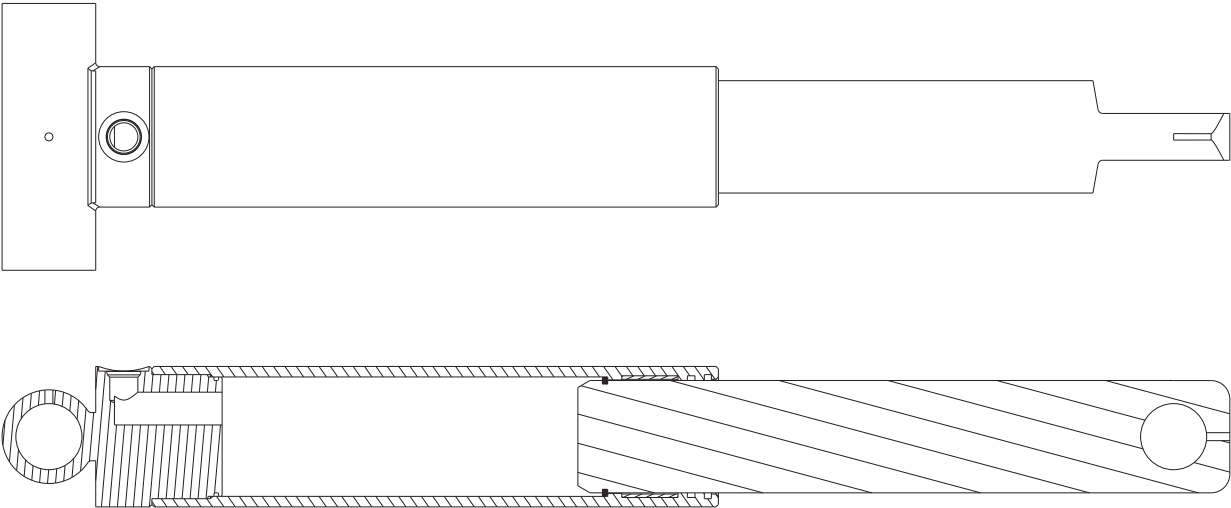


Figure 4-14: Hydraulic Cylinder, 3 x 9-1/2 - 209372

**Hydraulic Cylinder, 3 x 9-1/2 - 209372**

| ITEM | PART NUMBER | DESCRIPTION                        | QTY. |
|------|-------------|------------------------------------|------|
|      | 209372      | CYLINDER-SA,3 X 9-1/2 DISP (SHANK) | 1    |
|      | 224786      | KIT-PACKING,3X9.5X3                | 1    |

Hydraulic Cylinder, 4 x 24 - 108331

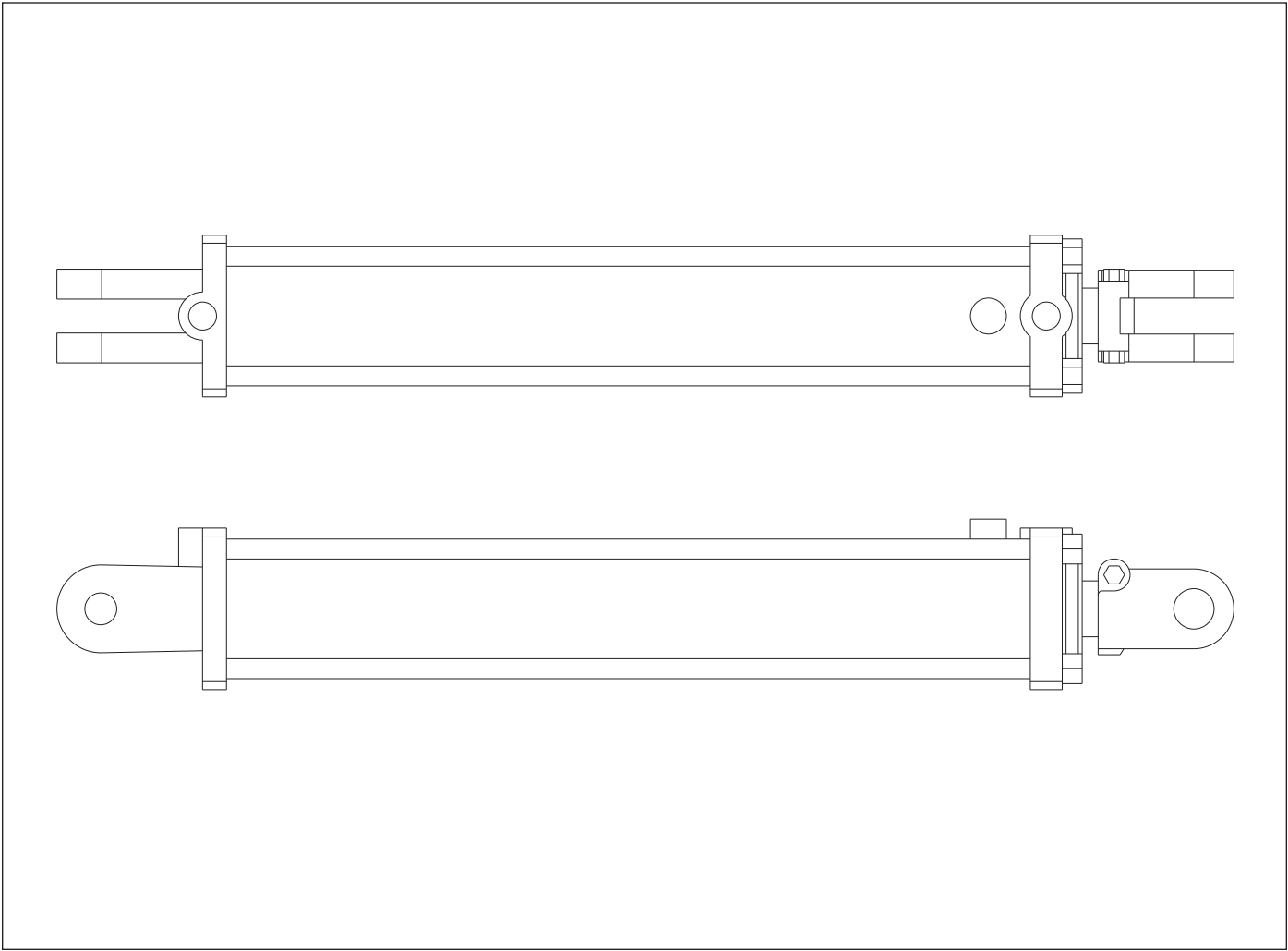


Figure 4-15: Hydraulic Cylinder, 4 x 24 - 108331

Hydraulic Cylinder, 4 x 24 - 108331

| ITEM | PART NUMBER | DESCRIPTION                                         | QTY. |
|------|-------------|-----------------------------------------------------|------|
|      | 108331      | CYLINDER, HYD 4X24 SP (FOLDING) (BEFORE 11/01/2021) | 1    |
|      | 224787      | KIT-PACKING,4X24X1.75                               | 1    |

## Hydraulic Cylinder, 5 x 30 - 233870

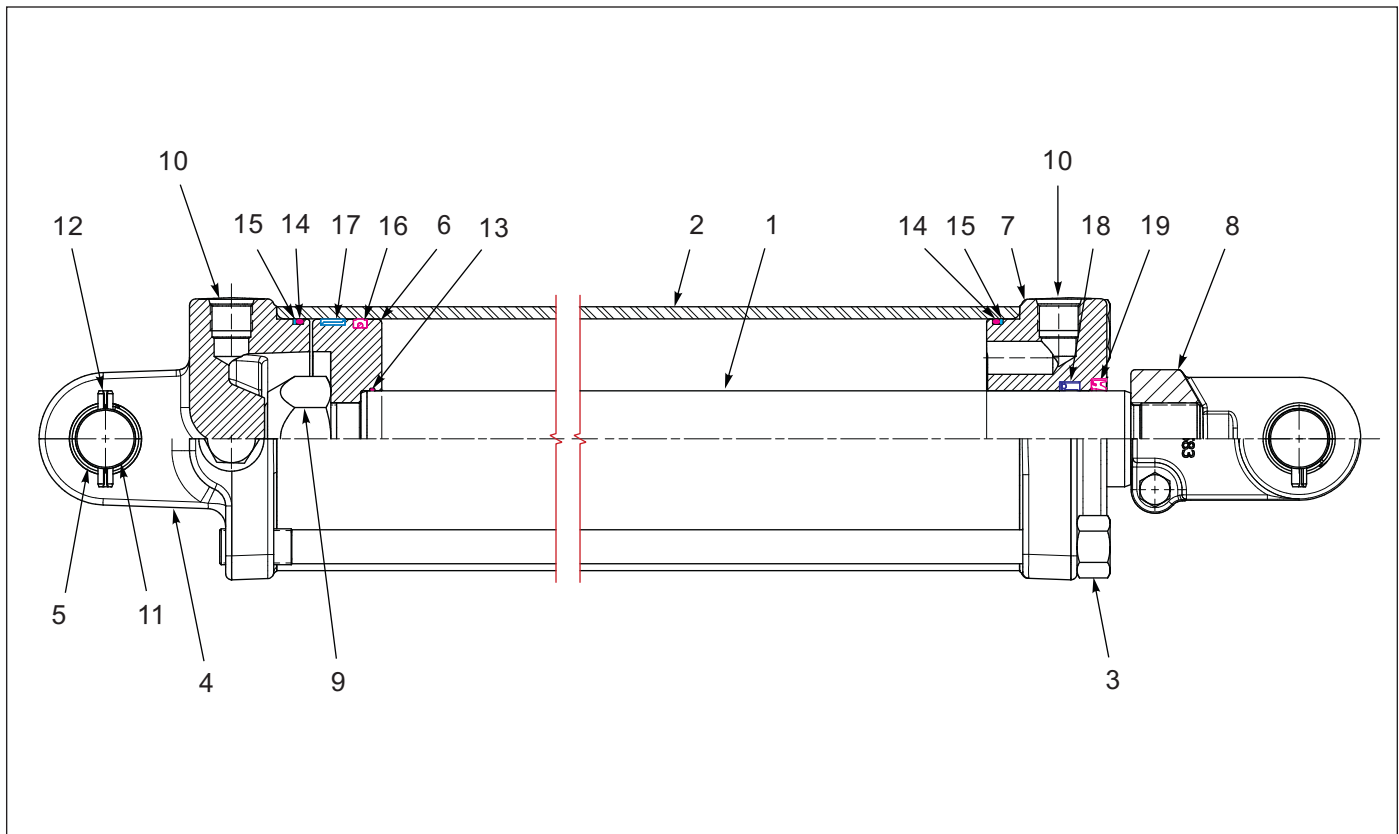


Figure 4-16: Hydraulic Cylinder, 5 x 30 - 233870

## Hydraulic Cylinder, 5 x 30 - 233870

| ITEM | PART NUMBER | DESCRIPTION                                  | QTY |
|------|-------------|----------------------------------------------|-----|
|      | 233870      | CYLINDER, HYD 5X30, 3000 PSI (PRINCE)        | 1   |
|      | 240960      | PACKING KIT, Ø5" BORE (INCLUDES ITEMS 13-19) | 1   |
| 1    | -----       | PISTON ROD                                   | 1   |
| 2    | -----       | TUBE                                         | 1   |
| 3    | -----       | TIEROD ASSEMBLY                              | 4   |
| 4    | 240957      | BUTT CLEVIS ASM                              | 1   |
| 5    | 135912      | BUSHING #210600358                           | 4   |
| 6    | -----       | PISTON                                       | 1   |
| 7    | 240958      | GLAND, Ø5" BORE, Ø2" ROD                     | 1   |
| 8    | 240959      | ROD CLEVIS, Ø1-1/4" PINS                     | 1   |
| 9    | -----       | LOCKNUT                                      | 1   |
| 10   | -----       | PORT PLUG (FOR SHIPMENT)                     | 3   |
| 11   | 147755      | CLEVIS PIN, Ø1-1/4 HARD, PRINCE              | 2   |
| 12   | 147072      | PIN, SPRING SLOTTED 5/16 X 2                 | 4   |
| 13   | -----       | O-RING                                       | 1   |
| 14   | -----       | O-RING                                       | 2   |
| 15   | -----       | BU-WASHER                                    | 2   |
| 16   | -----       | CROWN SEAL                                   | 1   |
| 17   | -----       | BEARING RING                                 | 1   |
| 18   | -----       | U-CUP                                        | 1   |
| 19   | -----       | WIPER                                        | 1   |

Hydraulic Cylinder, 6 x 30 - 233833

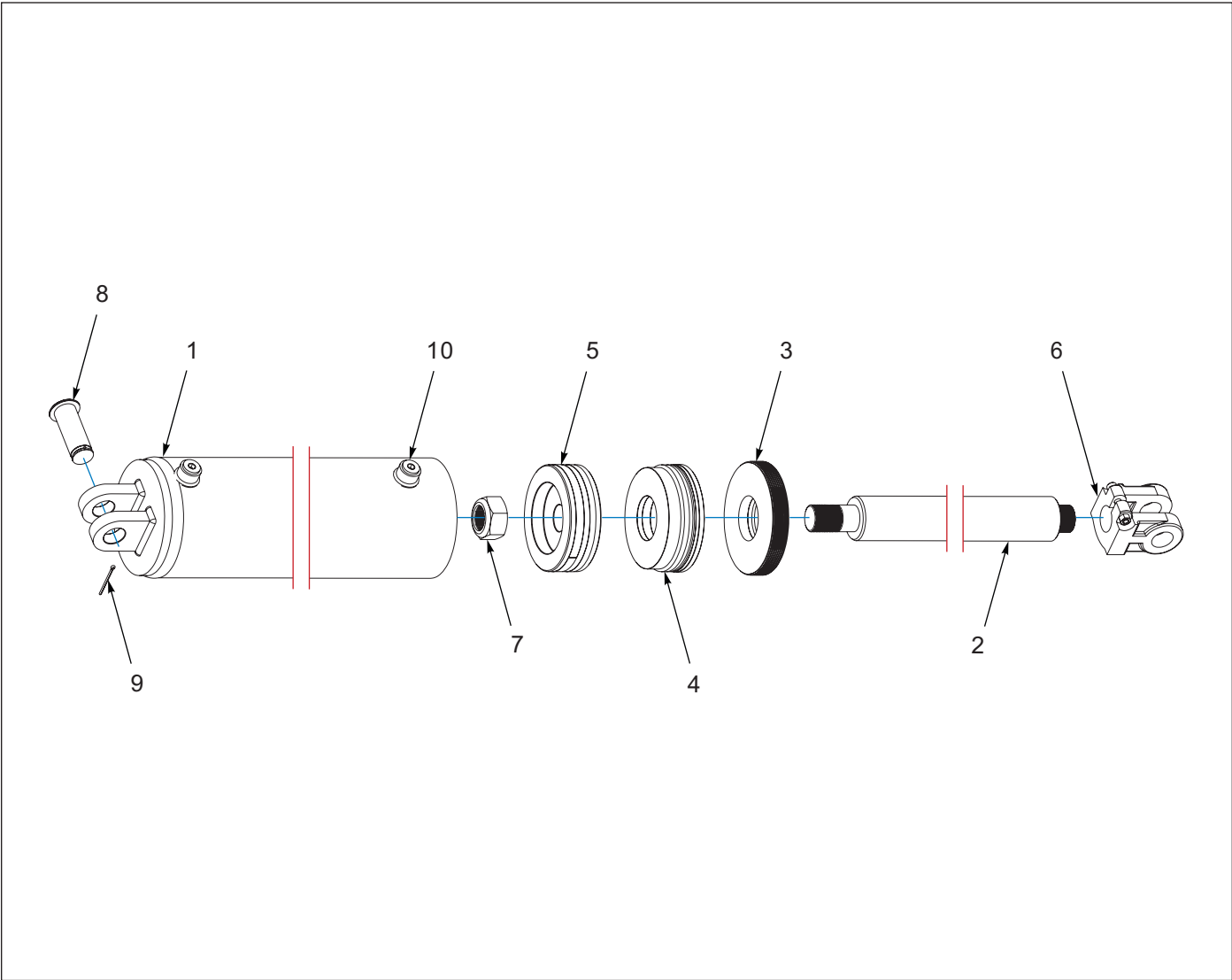


Figure 4-17: Hydraulic Cylinder, 6 x 30 - 233833

Hydraulic Cylinder, 6 x 30 - 233833

| ITEM | PART NUMBER | DESCRIPTION                                       | QTY |
|------|-------------|---------------------------------------------------|-----|
|      | 233833      | CYLINDER-HYD, 6 X 30, 3000 PSI (MIDWAY / CARLSON) | 1   |
|      | 253737      | KIT, SEAL, CYL 233833 (MIDWAY)                    | 1   |
| 1    | -----       | 6" BARREL ASSY                                    | 1   |
| 2    | -----       | ROD 2-1/2" O.D. X 37-3/8" LG                      | 1   |
| 3    | -----       | RETAINER 6" OD X 2-1/2" ID X 1" LG                | 1   |
| 4    | -----       | BEARING 6" OD X 2-1/2 ID X 2-1/8" LG              | 1   |
| 5    | -----       | CT PISTON 6" OD X 1-1/2" ID X1-15/16' LG          | 1   |
| 6    | -----       | MW CLEVIS 1-1/2"-12 X 1 1/4" PIN                  | 1   |
| 7    | -----       | 1-1/2"-12 NYLOCK NUT                              | 1   |
| 8    | -----       | 1-1/4" CLEVIS PIN                                 | 1   |
| 9    | -----       | 1/8" X 2" COTTER PIN                              | 1   |
| 10   | -----       | 7/8" SAE HEX PLUG                                 | 2   |

[illegible]

# Shanks

## Parabolic Shank, 1-1/4

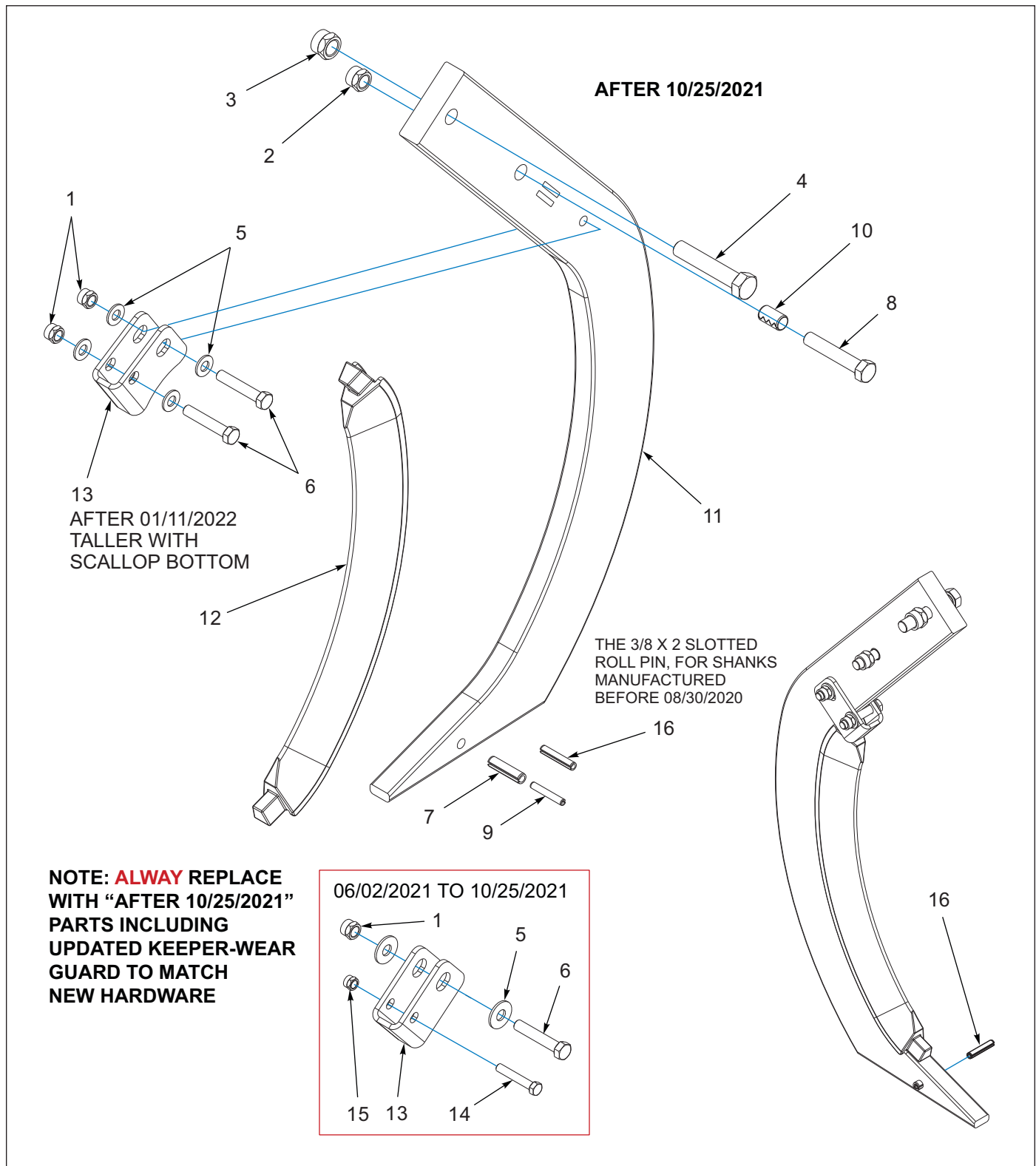


Figure 5-1: Parabolic Shank, 1-1/4

## Parabolic Shank, 1-1/4

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                                                             | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 224746          | SHANK, 1-1/4, PARABOLIC, ASM (INCL. ITEMS 1, 5, 6, 7, 9, 11-17)                                                                                                         | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                                                                              | 2    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)                                                                                                 | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)                                                                                                 | 1    |
| 4    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)                                                                                               | 1    |
| 5    | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD (AFTER 10/25/2021)                                                                                                                            | 4    |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD (BEFORE 10/25/2021)                                                                                                                            | 2    |
| 6    | 101510          | SCREW HXCP1/2-13UNCX2-3/4 G5                                                                                                                                            | 2    |
| 7    | 127351          | PIN, SPRING, SLOTTED 1/2X2                                                                                                                                              | 1    |
| 8    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)                                                                                             | 1    |
| 9    | 147072          | PIN, SPRING SLOTTED 5/16 X 2                                                                                                                                            | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)                                                                                             | 1    |
| 11   | 169493          | SHANK, 1-1/4 X 4, BOLT-IN,2410                                                                                                                                          | 1    |
| 12   | 224747          | GUARD-WEAR, PARABOLIC                                                                                                                                                   | 1    |
| 13   | 224748          | KEEPER-WEAR GUARD,PARABOLIC<br>(ALWAYS REPLACE WITH UPDATED KEEPER WEAR GUARD<br>TO MATCH NEW HARDWARE) (SEE PAGE 5-1)<br>(**AFTER 01/11/2022, TALLER W/SCALLOP BOTTOM) | 1    |
| 14   | 1-654-010051-10 | SCREW,HX CP3/8-16X2-1/4 GR5 (06/02/2021 TO 10/25/2021)                                                                                                                  | 1    |
| 15   | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16 (06/02/2021 TO 10/25/2021)                                                                                                                  | 1    |
| 16   | 1-647-010004255 | PIN, SPRING, SLOTTED 3/8X2 (ADDED 10/05/2021)<br>(TO BE USED W/SHANKS MANUFACTURED BEFORE 08/30/2020)                                                                   | 1    |
| 17   | 227895          | KIT-HARDWARE, SHANK (NOT SHOWN)<br>(INCL. ITEMS 1, 5, 6, 7, 9, 12, 13)                                                                                                  | 1    |

## Straight Leg Shank, 1-1/4

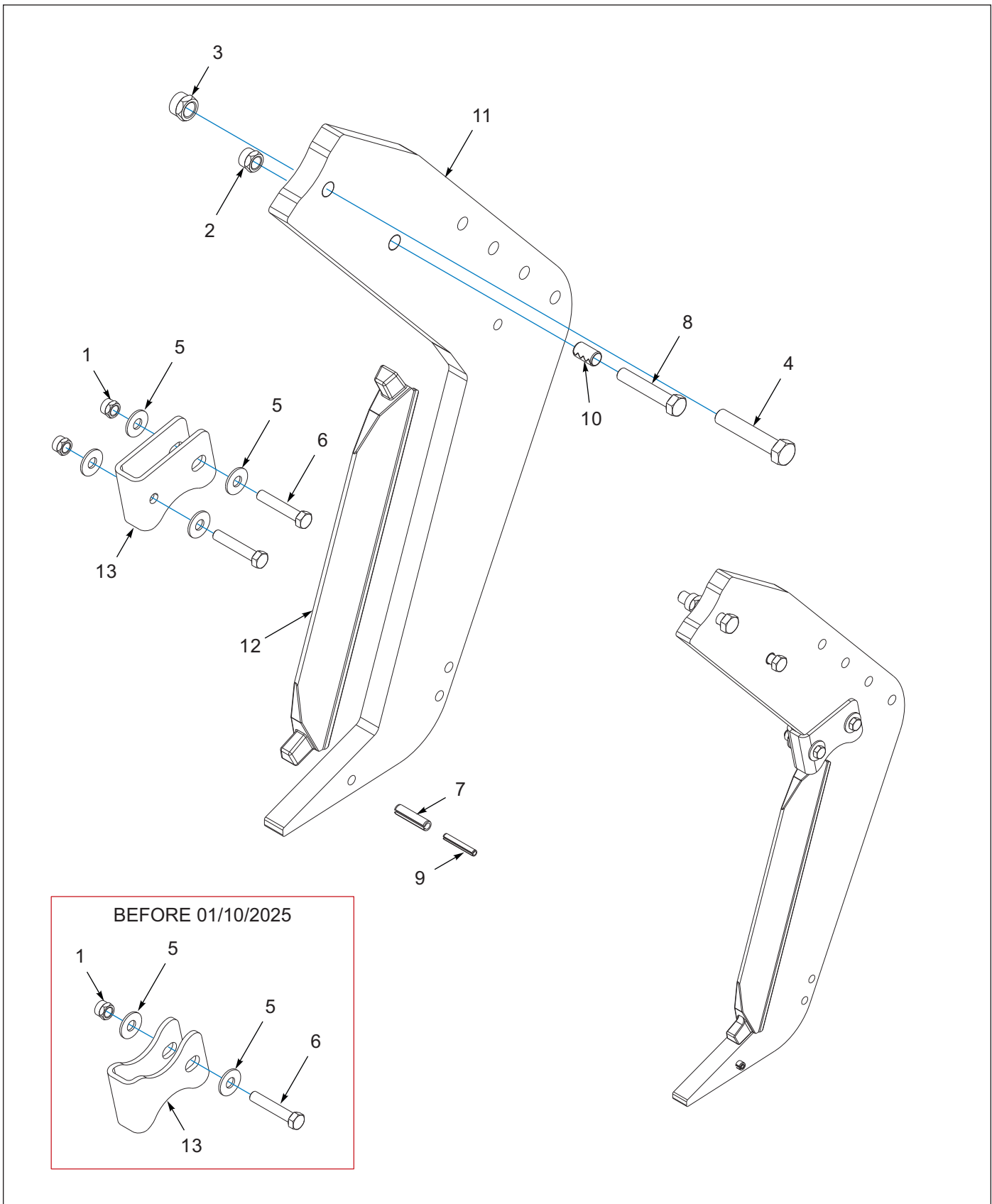


Figure 5-2: Straight Leg Shank, 1-1/4

## Straight Leg Shank, 1-1/4

| ITEM | PART NUMBER     | DESCRIPTION                                                                 | QTY. |
|------|-----------------|-----------------------------------------------------------------------------|------|
|      | 224744          | SHANK, 1-1/4, STRAIGHT LEG, ASM<br>(INCLUDES ITEMS 1, 5, 6, 7, 9, 11-13)    | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB (BEFORE 01/10/2025, QTY=1)                       | 2    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | 1    |
| 4    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)   | 1    |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD (BEFORE 01/10/2025, QTY=2)                         | 4    |
| 6    | 101510          | SCREW HXCP1/2-13UNCX2-3/4 G5 (BEFORE 01/10/2025, QTY=1)                     | 2    |
| 7    | 127351          | PIN, SPRING, SLOTTED 1/2X2                                                  | 1    |
| 8    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | 1    |
| 9    | 147072          | PIN, SPRING SLOTTED 5/16 X 2                                                | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | 1    |
| 11   | 224743          | SHANK- 1-1/4 STRAIGHT LEG                                                   | 1    |
| 12   | 224745          | GUARD-WEAR, STRAIGHT LEG                                                    | 1    |
| 13   | 224752          | KEEPER-WEAR GUARD,STR LEG                                                   | 1    |

## Straight Leg Shank, 3/4 (AFTER 02/2026)

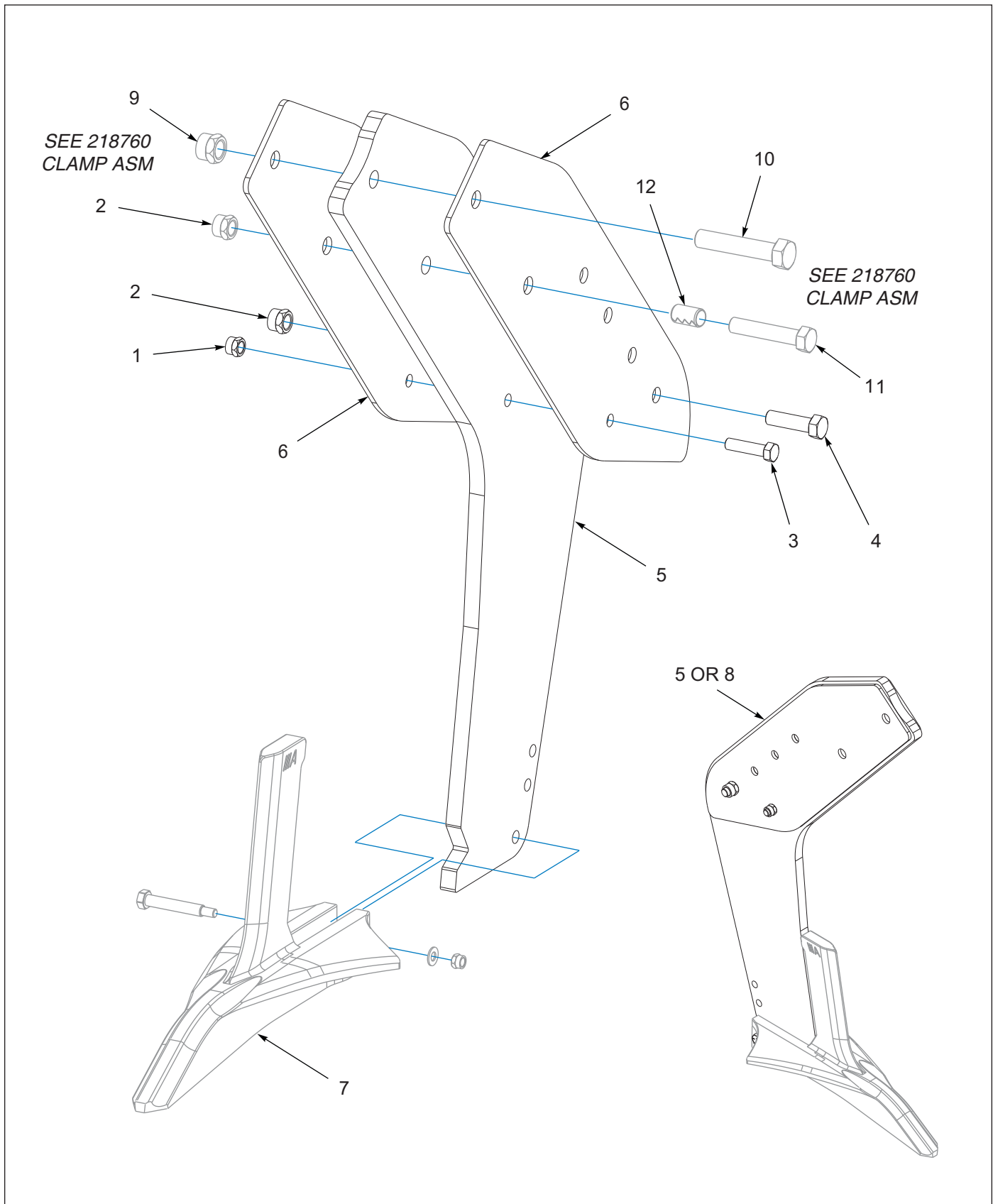


Figure 5-3: Straight Leg Shank, 3/4 (AFTER 02/2026)

## Straight Leg Shank, 3/4 (AFTER 02/2026)

| ITEM | PART NUMBER     | DESCRIPTION                                                                 | QTY. |
|------|-----------------|-----------------------------------------------------------------------------|------|
|      | 253740          | SHANK-3/4, STRAIGHT LEG, ASM<br>(INCLUDES ITEMS 1 THRU 7)                   | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                  | 1    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | 1    |
| 3    | 1-654-010055-05 | SCREW,HEX CAP,1/2-13UNCX2 GR5                                               | 1    |
| 4    | 1-654-010059-06 | SCREW,HEX CAP 5/8-11X2-1/4 G5                                               | 1    |
| 5    | 253759          | PLATE-SHANK, 3/4, NO TILL                                                   | 1    |
| 6    | 253760          | PLATE-GUSSET, SHANK                                                         | 2    |
| 7    | 245220          | POINT-NO TILL, SUPERRIP, 8IN (SEE PAGE 6-3)                                 | 1    |
| 8    | 242960          | SHANK-LOW DIST, WELDMENT<br>(OPTIONAL WELDED SHANK) (NOT SHOWN)             | --   |
| 9    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | --   |
| 10   | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)   | --   |
| 11   | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | --   |
| 12   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | --   |

## Straight Leg Shank, 3/4 (BEFORE 02/2026)

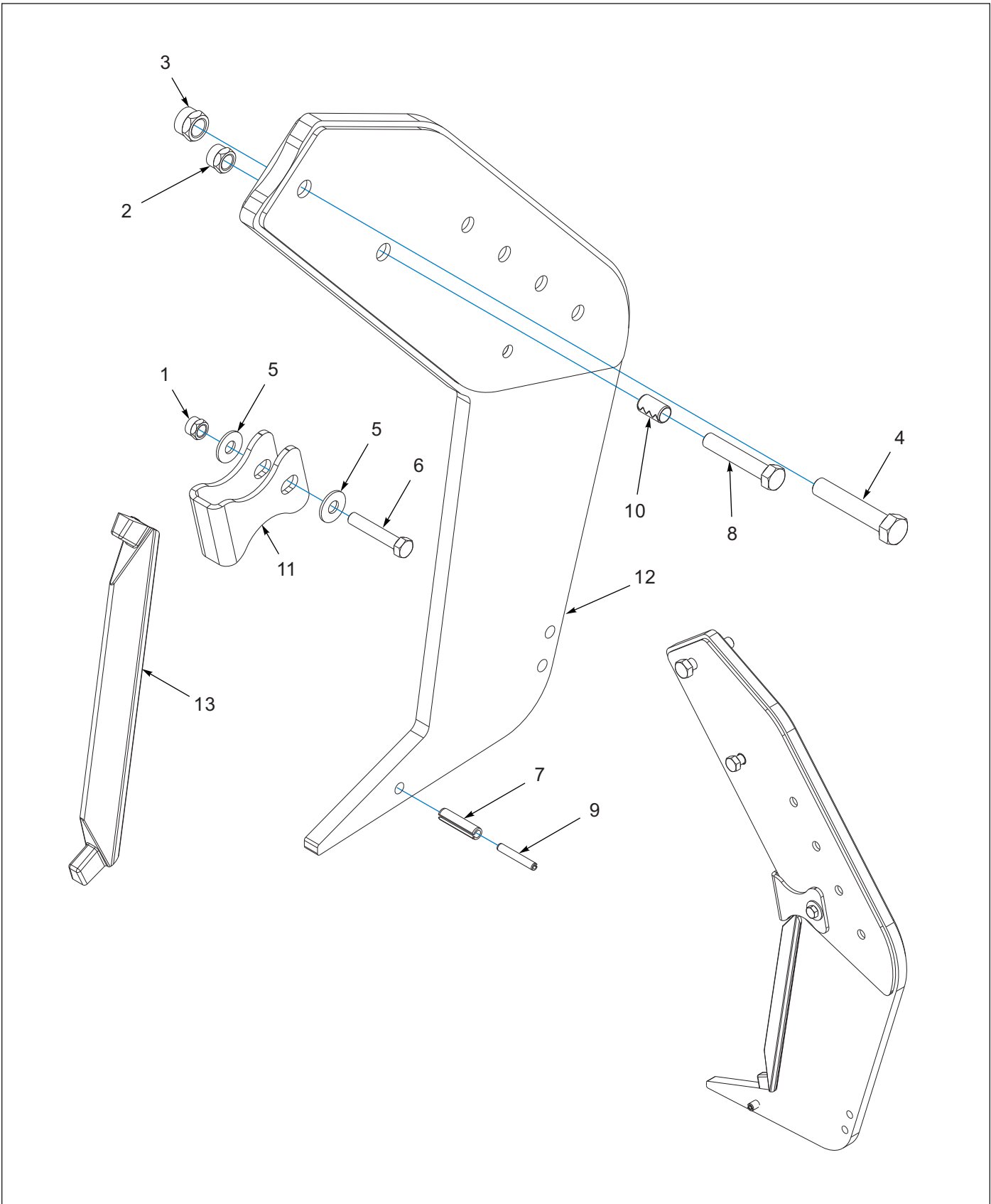


Figure 5-4: Straight Leg Shank, 3/4 (BEFORE 02/2026)

## Straight Leg Shank, 3/4 (BEFORE 02/2026)

| ITEM | PART NUMBER     | DESCRIPTION                                                                 | QTY. |
|------|-----------------|-----------------------------------------------------------------------------|------|
|      | 224768          | SHANK, 3/4, STRAIGHT LEG, ASM<br>(INCLUDES ITEMS 1, 5, 6, 7, 9, 11-13)      | 1    |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                  | 1    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | 1    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)     | 1    |
| 4    | 1-654-010061-13 | SCREW,HX CP 3/4-10UNCX4 GR5<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19)   | 1    |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                    | 2    |
| 6    | 101510          | SCREW HXCP1/2-13UNCX2-3/4 G5                                                | 1    |
| 7    | 127351          | PIN, SPRING, SLOTTED 1/2X2                                                  | 1    |
| 8    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | 1    |
| 9    | 147072          | PIN, SPRING SLOTTED 5/16 X 2                                                | 1    |
| 10   | 150244          | BUSHING,CNX-5/8 X 3/4 X 1-1/4<br>(PART OF 218760 CLAMP ASM) (SEE PAGE 1-19) | 1    |
| 11   | 224752          | KEEPER-WEAR GUARD,STR LEG                                                   | 1    |
| 12   | 224763          | SHANK-STRAIGHT LEG, 3/4 WLDMT                                               | 1    |
| 13   | 224767          | GUARD-WEAR, STRAIGHT LEG, 3/4                                               | 1    |

## Coverboard Kit

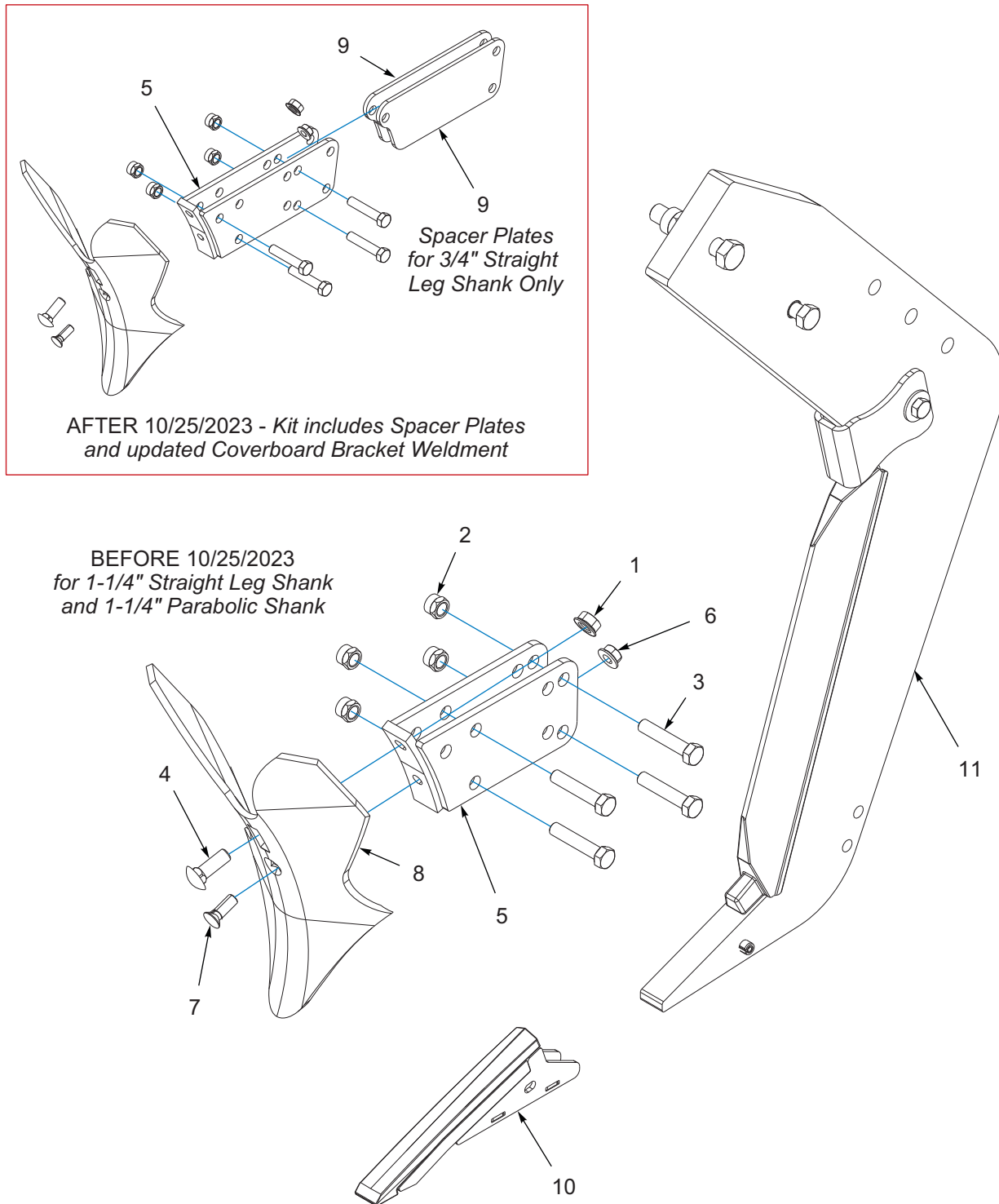


Figure 5-5: Coverboard Kit

## Coverboard Kit

| ITEM | PART NUMBER     | DESCRIPTION                                                                                              | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------|------|
|      | 227299          | KIT-COVER BOARD, 2512<br>(AFTER 10/25/2023 - USED WITH 224744, 224746 AND 224768)                        | 1    |
| 1    | 1-510-010003-09 | NUT,1/2-13 FLANGE HD,SERRATED                                                                            | 1    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                               | 4    |
| 3    | 1-654-010055-07 | SCREW HX CP 1/2-13UNCX2-1/2                                                                              | 4    |
| 4    | 1-654-010070-03 | SCREW RDHD SQNK1/2-13X1-1/2                                                                              | 1    |
| 5    | 214396          | BRACKET-COVERBOARD WLDMT                                                                                 | 1    |
| 6    | 4K551           | SELF-LOCKING FLANGE NUT                                                                                  | 1    |
| 7    | 5J425           | BOLT PLOW 7/16-14 X 1-1/4                                                                                | 1    |
| 8    | 6K478           | FURROWER FOR COVERBOARD                                                                                  | 1    |
| 9    | 247319          | PLATE-SPACER, BRACKET (SPACER PLATES FOR 224768, 3/4" STRAIGHT LEG SHANK ONLY - ADDED TO KIT 10/25/2023) | 2    |
| 10   | 227247          | 1-1/4,PLN,CHRM CAP,2-1/2 (SHOWN)<br>(SEE PAGE 6-1 FOR AVAILABLE POINTS)                                  | --   |
| 11   | 224744          | SHANK, 1-1/4,STRAIGHT LEG, ASM (SHOWN) (SEE PAGE 5-3)                                                    | --   |
| 11   | 224746          | SHANK, 1-1/4, PARABOLIC, ASM (SEE PAGE 5-1)                                                              | --   |
| 11   | 224768          | SHANK, 3/4, STRAIGHT LEG, ASM (SEE PAGE 5-7)                                                             | --   |

# Points

## Points for 1-1/4 Shank

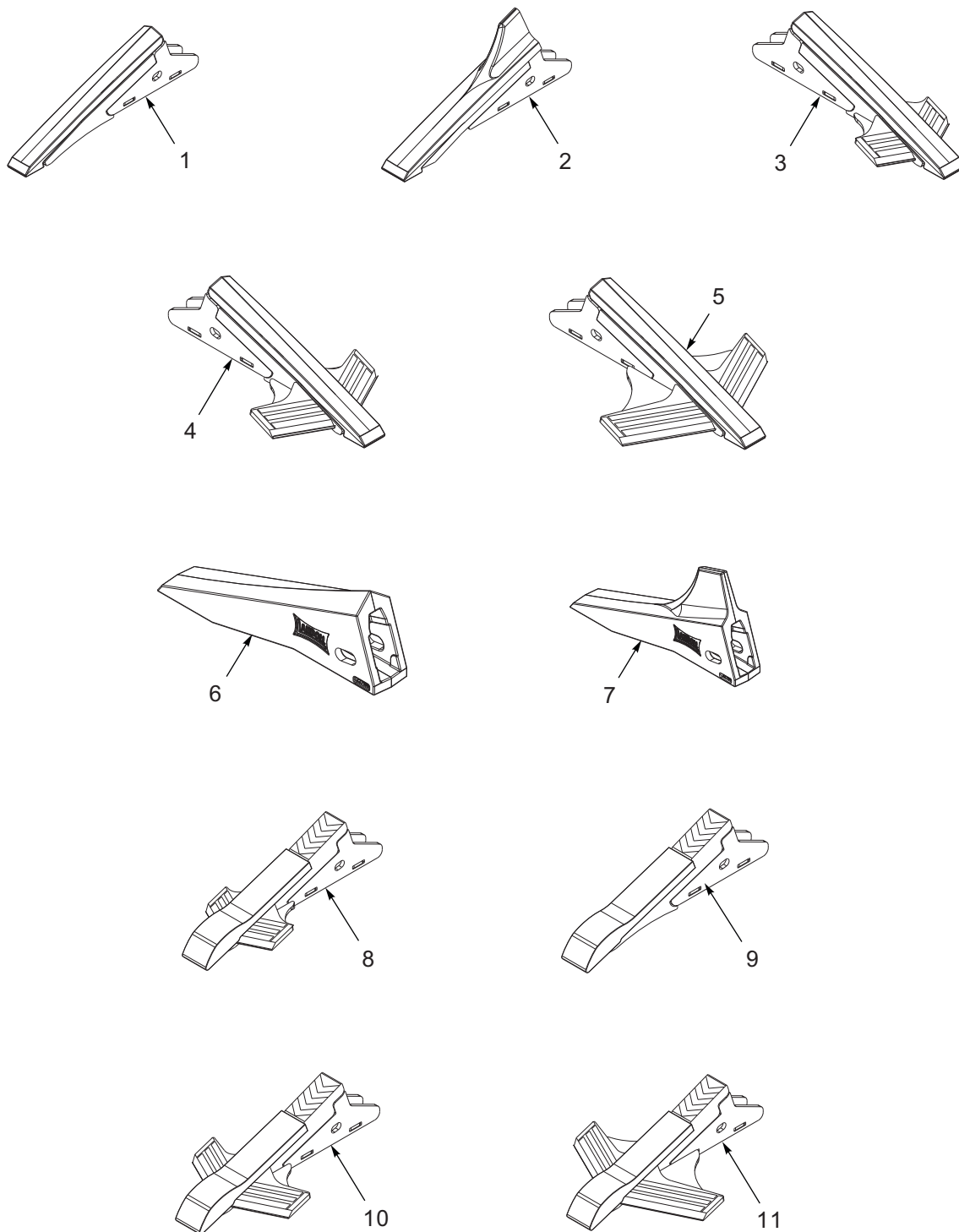
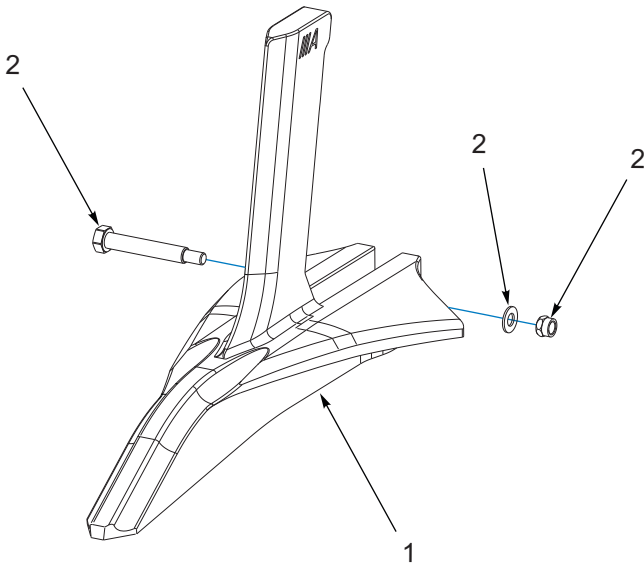


Figure 6-1: Points for 1-1/4 Shank

## Points for 1-1/4 Shank

| ITEM | PART NUMBER | DESCRIPTION                    | QTY. |
|------|-------------|--------------------------------|------|
| 1    | 227247      | 1-1/4,PLN,CHRM CAP,2-1/2       | --   |
| 2    | 227271      | 1-1/4,FIN CHRM CAP,2-1/2,WLDMT | --   |
| 3    | 227207      | 1-1/4,WNGD,7,CHRM CAP,2-1/2    | --   |
| 4    | 227210      | 1-1/4,WNGD,10,CHRM CAP,2-1/2   | --   |
| 5    | 227198      | 1-1/4,WNGD,WIDE,CHRM CAP,2-1/2 | --   |
| 6    | 227189      | 1-1/4,PLN,CADI,2-1/2           | --   |
| 7    | 227191      | 1-1/4,CADI,FIN,2-1/2           | --   |
| 8    | 227265      | 1-1/4, WINGD,7,CST STL CAP     | --   |
| 9    | 227267      | 1-1/4, PLN,2-1/2 CST STL CAP   | --   |
| 10   | 227272      | 1-1/4,WNGD,10,CST STL CAP      | --   |
| 11   | 227273      | 1-1/4,WINGD,WIDE,CST STL CAP   | --   |

**Points for 3/4 Shank (AFTER 02/2026)**

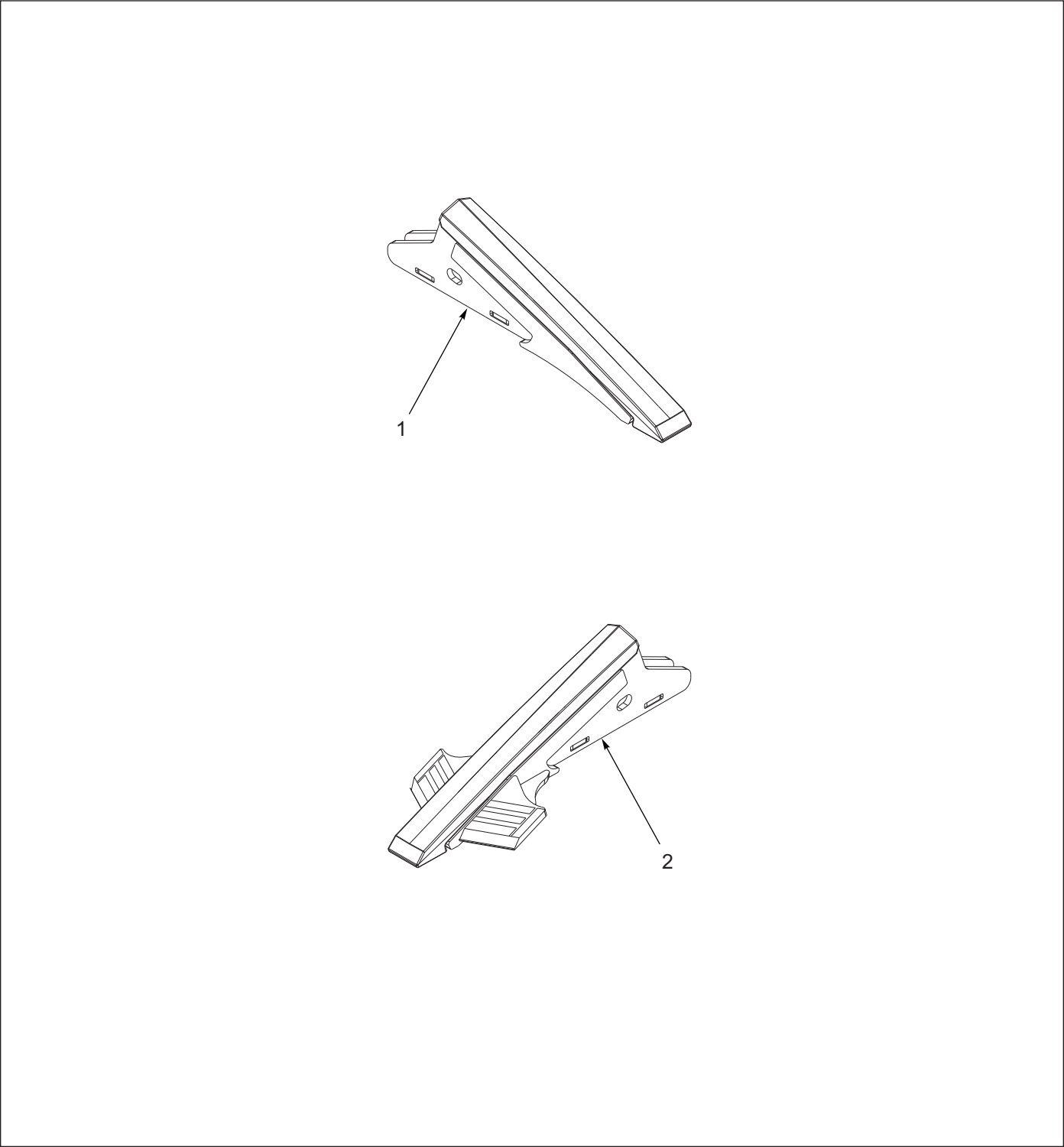


**Figure 6-2: Points 3/4 Shank (AFTER 02/2026)**

**Points for 3/4 Shank (AFTER 02/2026)**

| ITEM | PART NUMBER | DESCRIPTION                                                                     | QTY. |
|------|-------------|---------------------------------------------------------------------------------|------|
| 1    | 245220      | POINT-NO TILL, SUPERRIP, 8IN                                                    | --   |
| 2    | 253742      | KIT-BOLT,1/2 X 3/8-16 X 3-3/8<br>(BOLT, WASHER AND LOCKNUT NOT SOLD SEPARATELY) | --   |

**Points for 3/4 Shank (BEFORE 02/2026)**



**Figure 6-3: Points 3/4 Shank**

**Points for 3/4 Shank (BEFORE 02/2026)**

| ITEM | PART NUMBER | DESCRIPTION                 | QTY. |
|------|-------------|-----------------------------|------|
| 1    | 227221      | 3/4,PLN,CHRM CAP, 2         | --   |
| 2    | 227245      | 3/4,WNGD, 7,CHARM CAP WLDMT | --   |

# Finishing Options

## Closing Platform (AFTER 04/2024)

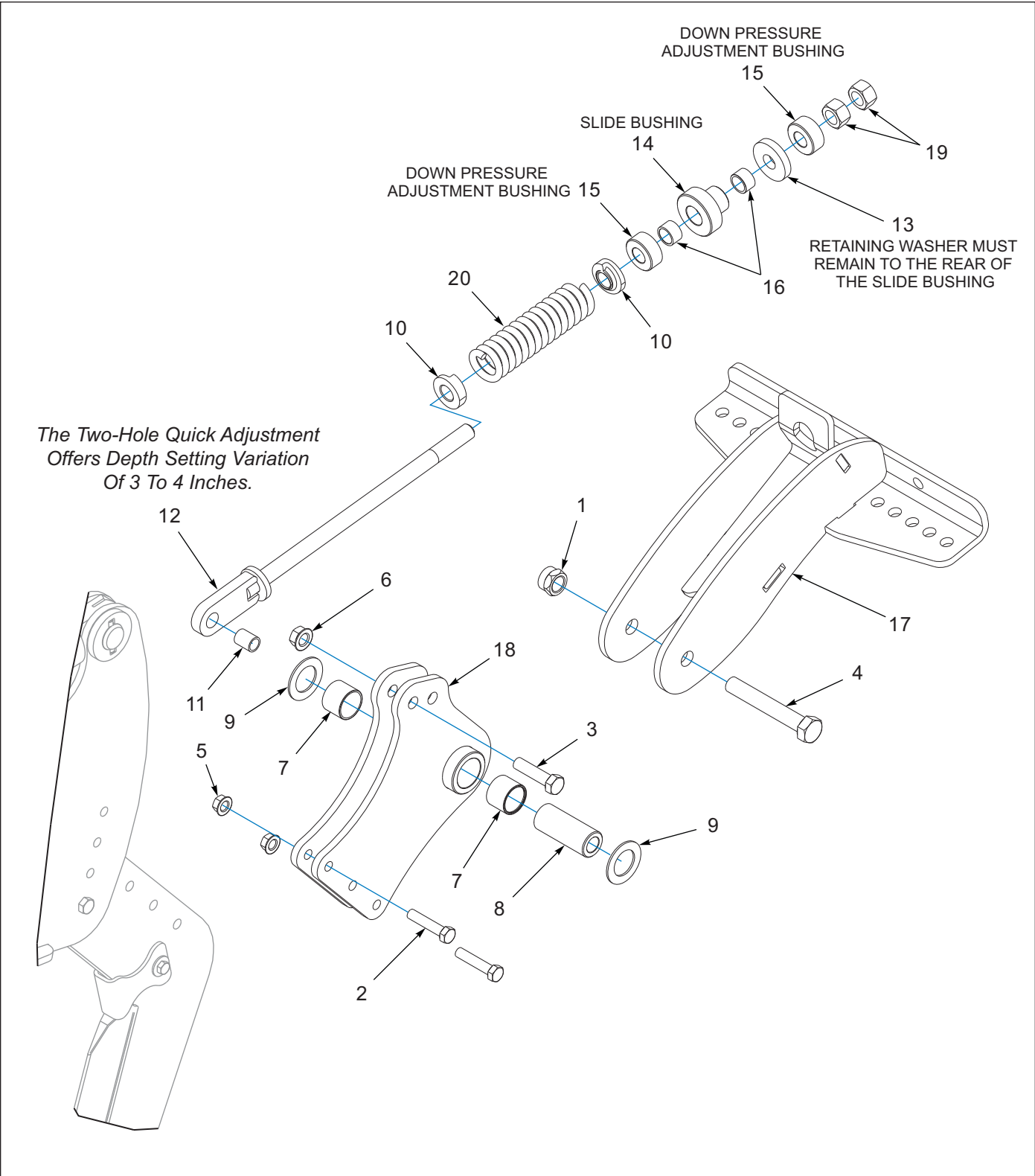
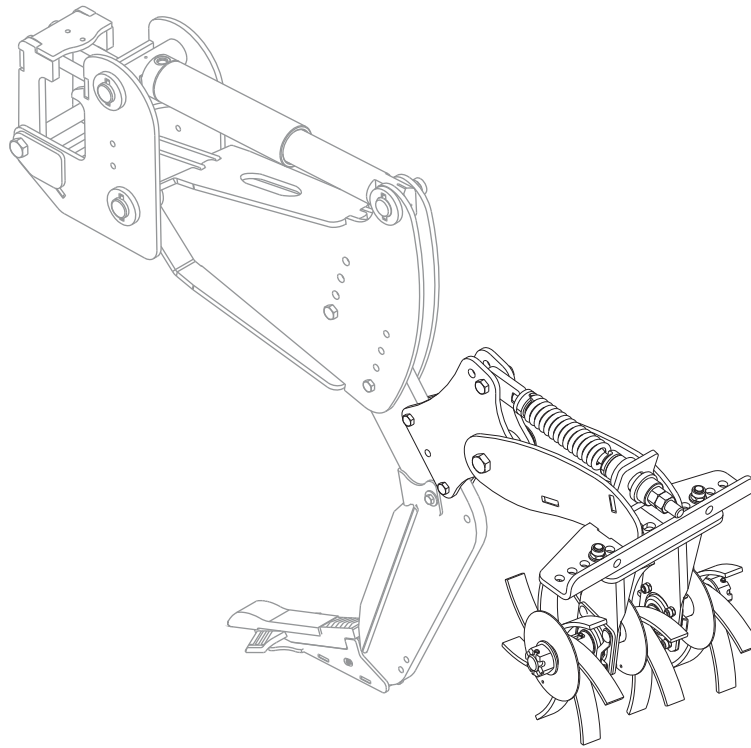


Figure 7-1: Closing Platform (AFTER 04/2024) (1 of 2)



BACK VIEW

Figure 7-2: Closing Platform (AFTER 04/2024) (2 of 2)

## Closing Platform (AFTER 04/2024)

| ITEM | PART NUMBER     | DESCRIPTION                                         | QTY. |
|------|-----------------|-----------------------------------------------------|------|
|      | 227150          | PLATFORM-CLOSING, 2512, ASM (SHOWN W/ CLOSER WHEEL) | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                         | 1    |
| 2    | 138567          | SCREW,HX CP 5/8-11UNCX3-1/2G8                       | 2    |
| 3    | 1-654-010061-09 | SCREW HX CP 3/4-10UNCX3 GR5                         | 1    |
| 4    | 1-654-010125-18 | SCREW HEX CAP,1-8UNCX6-1/2GR8                       | 1    |
| 5    | 100827          | NUT,FLG HD,SERRATED,5/8-11                          | 2    |
| 6    | 103841          | NUT,FLG,LNK,SERRATED 3/4-10UNC                      | 1    |
| 7    | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                       | 2    |
| 8    | 227126          | BUSHING,1.75 X 1.03 X 4.313                         | 1    |
| 9    | 227132          | WASHER-2-7/8X1.78 ID,1/8 UHMW                       | 2    |
| 10   | 227147          | PLUG-SPRING, 1-1/16                                 | 2    |
| 11   | 227148          | TUBE, 1.0 X .782 X 1.250                            | 1    |
| 12   | 227917          | BOLT-TENSIONER, WLDMT                               | 1    |
| 13   | 227919          | WASHER, 1.03 X 2.75 X 0.5                           | 1    |
| 14   | 227921          | BUSHING-SLIDE, BASE                                 | 1    |
| 15   | 227922          | BUSHING, 2-1/4 X 1-1/32 X 1                         | 2    |
| 16   | 227925          | BUSHING, IGUS, MSM-2734-20                          | 2    |
| 17   | 239291          | PLATFORM-MOUNT,CLOSER,WELDMNT                       | 1    |
| 18   | 239293          | PIVOT-SPRING MOUNT, WELDMNT                         | 1    |
| 19   | 61D16ER         | NUT, HEX 1-8UNC GR5 ZP                              | 2    |
| 20   | 6J460           | COMPRESSION SPRING                                  | 1    |

## Closing Platform (02/2022 TO 04/2024)

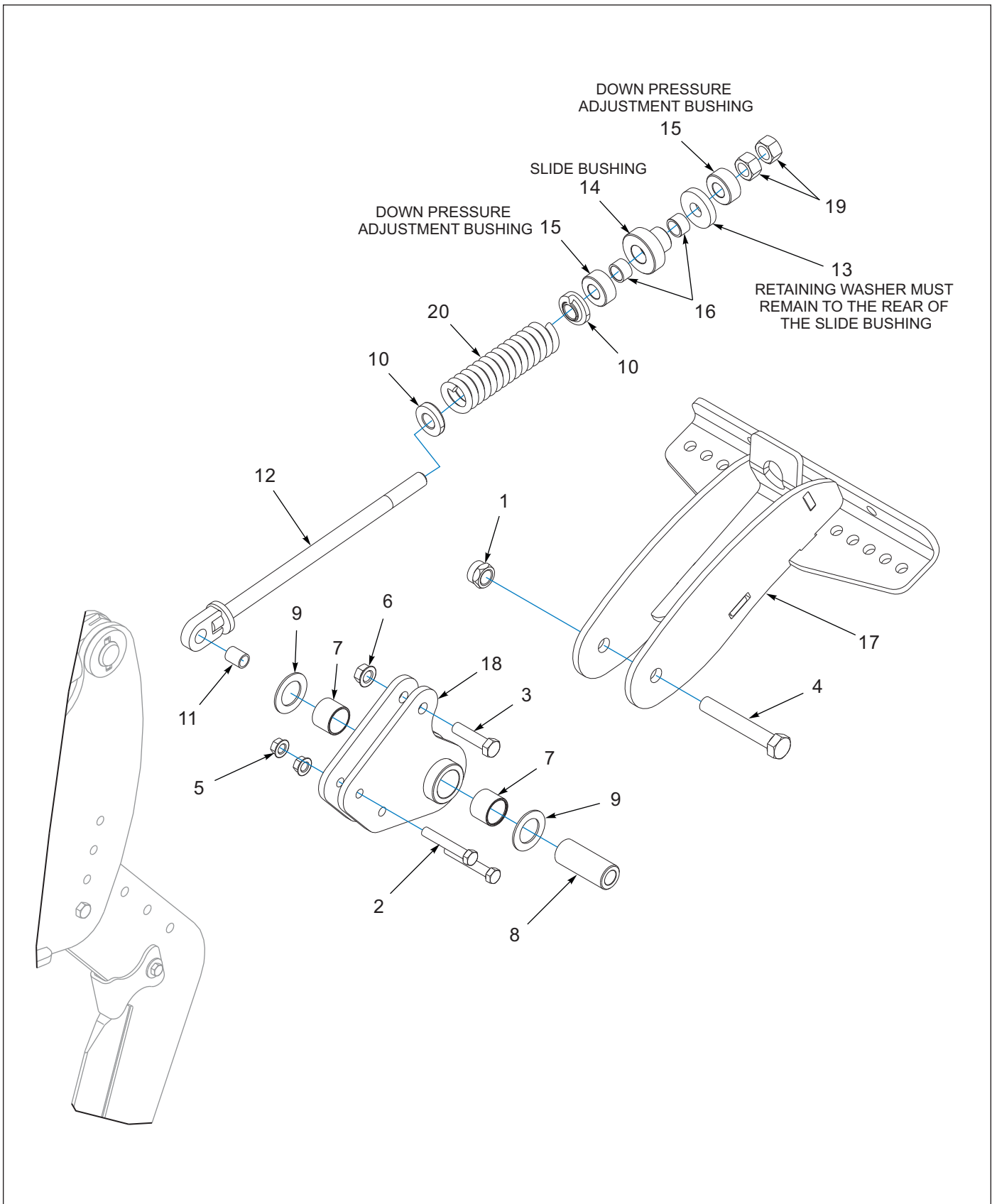


Figure 7-3: Closing Platform (02/2022 TO 04/2024) (1 of 2)

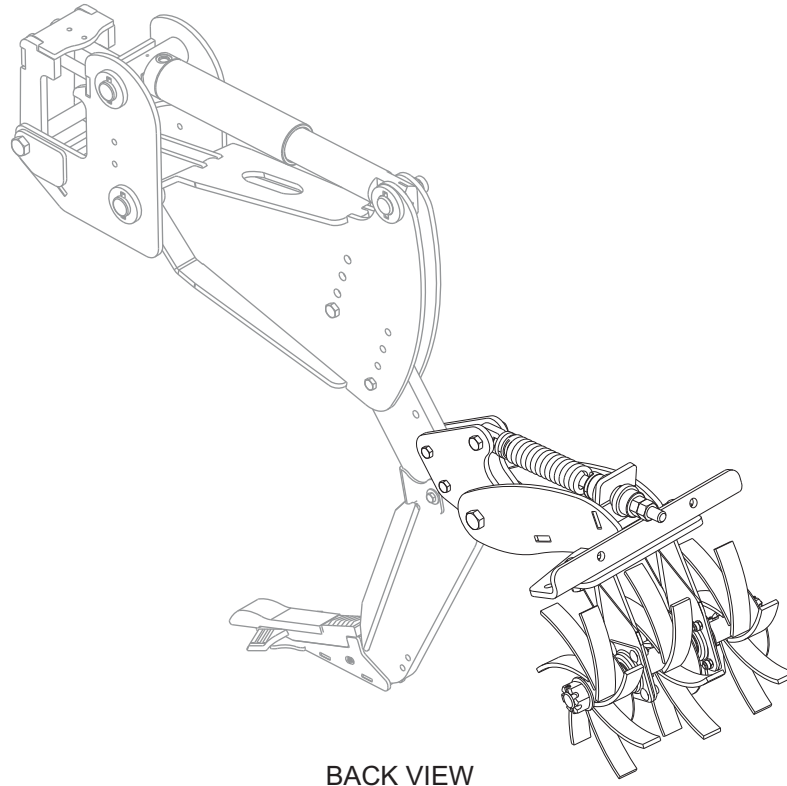


Figure 7-4: Closing Platform (02/2022 TO 04/2024) (2 of 2)

### Closing Platform (02/2022 TO 04/2024)

| ITEM | PART NUMBER     | DESCRIPTION                                         | QTY. |
|------|-----------------|-----------------------------------------------------|------|
|      | 227150          | PLATFORM-CLOSING, 2512, ASM (SHOWN W/ CLOSER WHEEL) | 1    |
| 1    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                         | 1    |
| 2    | 172829          | SCREW HX CP 5/8-11X4 GR8                            | 2    |
| 3    | 1-654-010061-09 | SCREW HX CP 3/4-10UNCX3 GR5                         | 1    |
| 4    | 1-654-010125-18 | SCREW HEX CAP,1-8UNCX6-1/2GR8                       | 1    |
| 5    | 100827          | NUT,FLG HD,SERRATED,5/8-11                          | 2    |
| 6    | 103841          | NUT,FLG,LNK,SERRATED 3/4-10UNC                      | 1    |
| 7    | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                       | 2    |
| 8    | 227126          | BUSHING,1.75 X 1.03 X 4.313                         | 1    |
| 9    | 227132          | WASHER-2-7/8X1.78 ID,1/8 UHMW                       | 2    |
| 10   | 227147          | PLUG-SPRING, 1-1/16                                 | 2    |
| 11   | 227148          | TUBE, 1.0 X .782 X 1.250                            | 1    |
| 12   | 227917          | BOLT-TENSIONER, WLDMT                               | 1    |
| 13   | 227919          | WASHER, 1.03 X 2.75 X 0.5                           | 1    |
| 14   | 227921          | BUSHING-SLIDE, BASE                                 | 1    |
| 15   | 227922          | BUSHING, 2-1/4 X 1-1/32 X 1                         | 2    |
| 16   | 227925          | BUSHING, IGUS, MSM-2734-20                          | 2    |
| 17   | 239291          | PLATFORM-MOUNT,CLOSER,WELDMNT                       | 1    |
| 18   | 239293          | PIVOT-SPRING MOUNT, WELDMNT                         | 1    |
| 19   | 61D16ER         | NUT, HEX 1-8UNC GR5 ZP                              | 2    |
| 20   | 6J460           | COMPRESSION SPRING                                  | 1    |

## Closing Platform (BEFORE 02/2022)

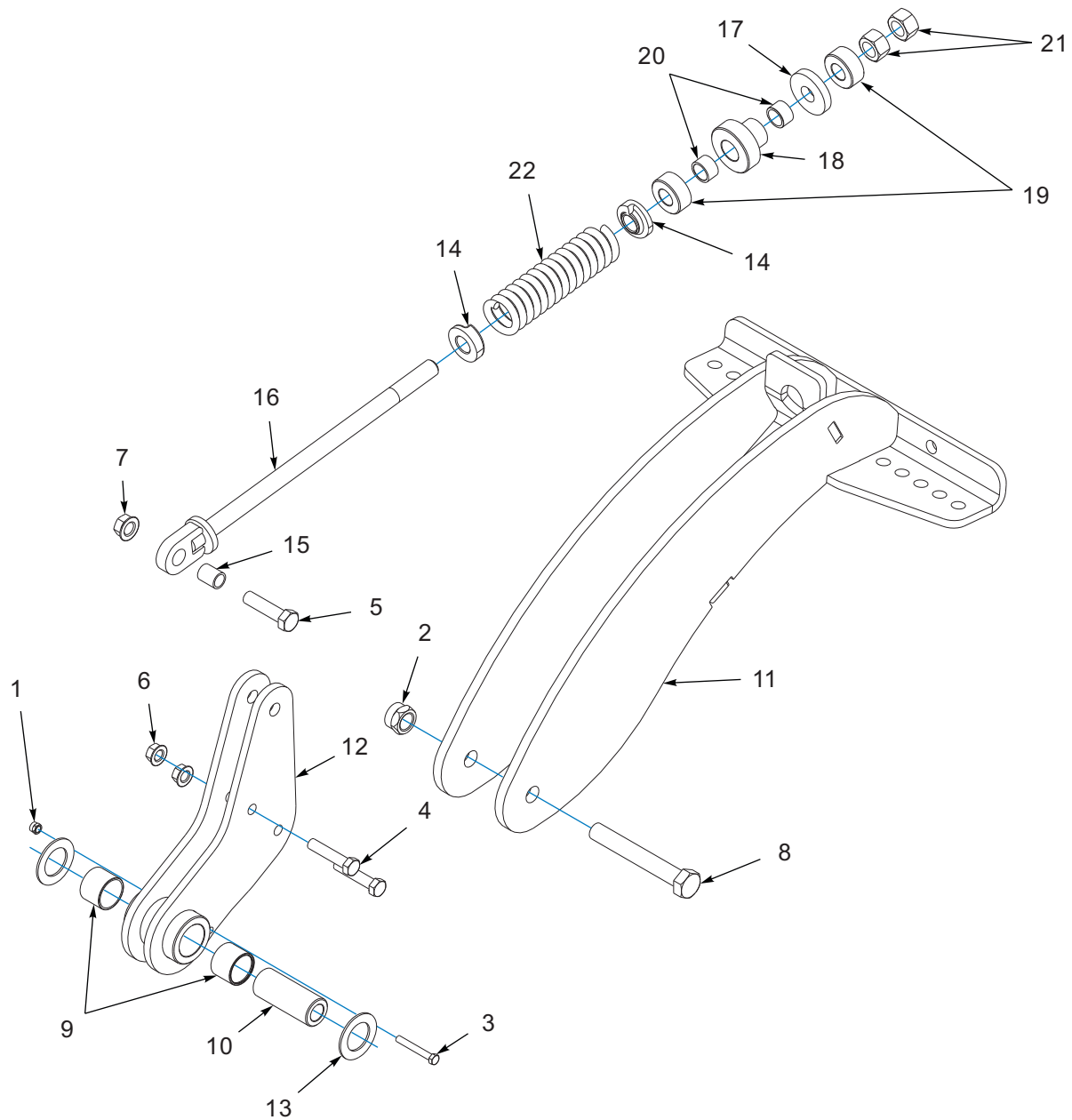


Figure 7-5: Closing Platform (BEFORE 02/2022) (1 of 2)

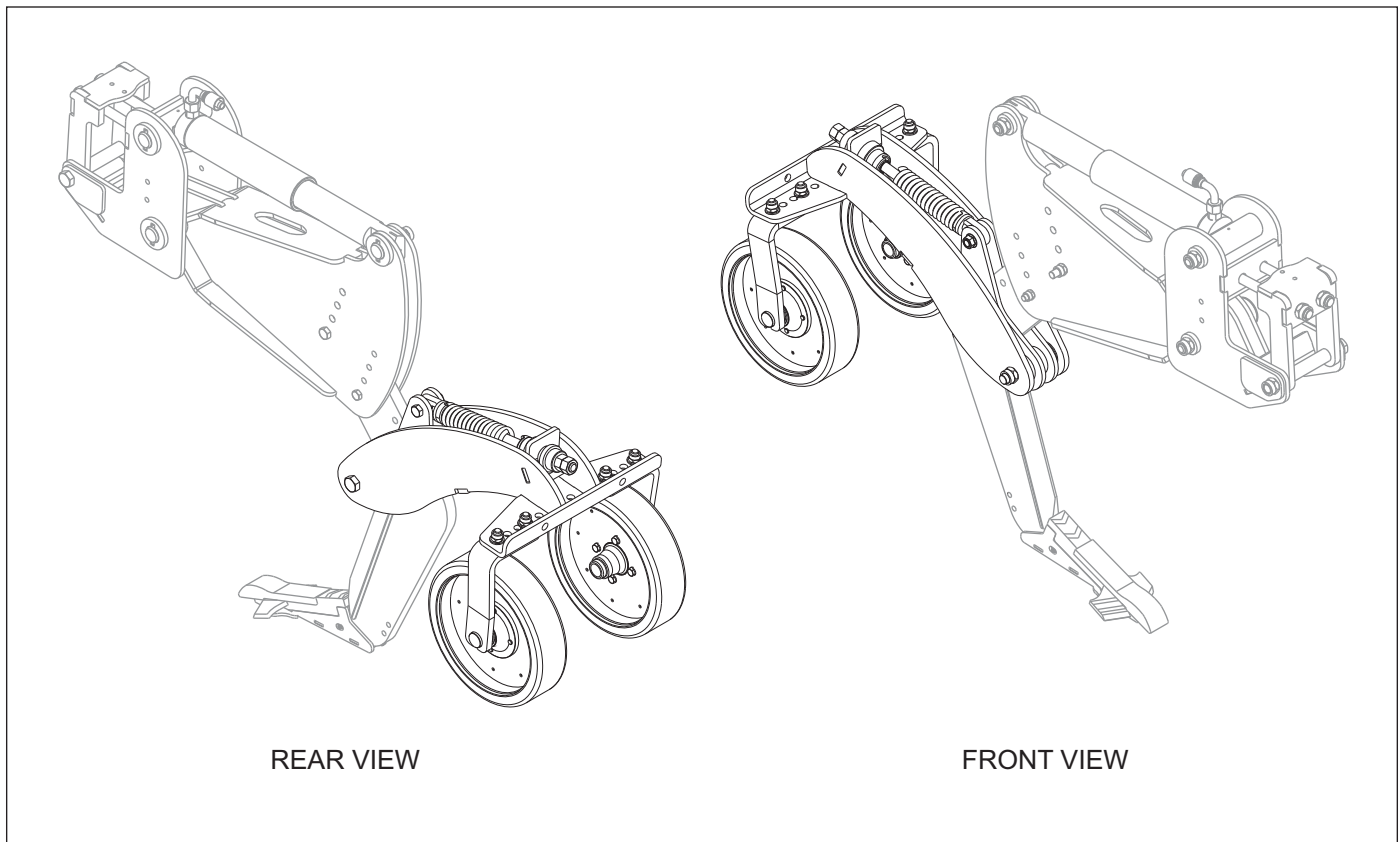


Figure 7-6: Closing Platform (BEFORE 02/2022) (2 of 2)

## Closing Platform (BEFORE 02/2022)

| ITEM | PART NUMBER     | DESCRIPTION                                         | QTY. |
|------|-----------------|-----------------------------------------------------|------|
|      | 227150          | PLATFORM-CLOSING, 2512, ASM (SHOWN W/ CLOSER WHEEL) | 1    |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                         | 1    |
| 2    | 1-512-010005-19 | NUT 1-8 HEX SLF-LOCKING GRB                         | 1    |
| 3    | 1-654-010051-12 | SCREW,HEX CAP,3/8-16UNCX2-3/4                       | 1    |
| 4    | 1-654-010059-09 | SCREW 5/8-11UNCX3 HX CP GR5                         | 2    |
| 5    | 1-654-010061-09 | SCREW HX CP 3/4-10UNCX3 GR5                         | 1    |
| 6    | 100827          | NUT,FLG HD,SERRATED,5/8-11                          | 2    |
| 7    | 103841          | NUT,FLG,LNK,SERRATED 3/4-10UNC                      | 1    |
| 8    | 122767          | SCREW,HEX CAP 1-8UNCX7 GR8                          | 1    |
| 9    | 210879          | BEARING-HEF, 2.004X1.76X1-1/2                       | 2    |
| 10   | 227126          | BUSHING,1.75 X 1.03 X 4.313                         | 1    |
| 11   | 227127          | FRAME-WHEEL MOUNT, WLDMT                            | 1    |
| 12   | 227129          | PIVOT-CLOSER MOUNT, WLDMT                           | 1    |
| 13   | 227132          | WASHER-2-7/8X1.78 ID,1/8 UHMW                       | 2    |
| 14   | 227147          | PLUG-SPRING, 1-1/16                                 | 2    |
| 15   | 227148          | TUBE, 1.0 X .782 X 1.250                            | 1    |
| 16   | 227917          | BOLT-TENSIONER, WLDMT                               | 1    |
| 17   | 227919          | WASHER, 1.03 X 2.75 X 0.5                           | 1    |
| 18   | 227921          | BUSHING-SLIDE, BASE                                 | 1    |
| 19   | 227922          | BUSHING, 2-1/4 X 1-1/32 X 1                         | 2    |
| 20   | 227925          | BUSHING, IGUS, MSM-2734-20                          | 2    |
| 21   | 61D16ER         | NUT, HEX 1-8UNC GR5 ZP                              | 2    |
| 22   | 6J460           | COMPRESSION SPRING                                  | 1    |

## Closer Wheel

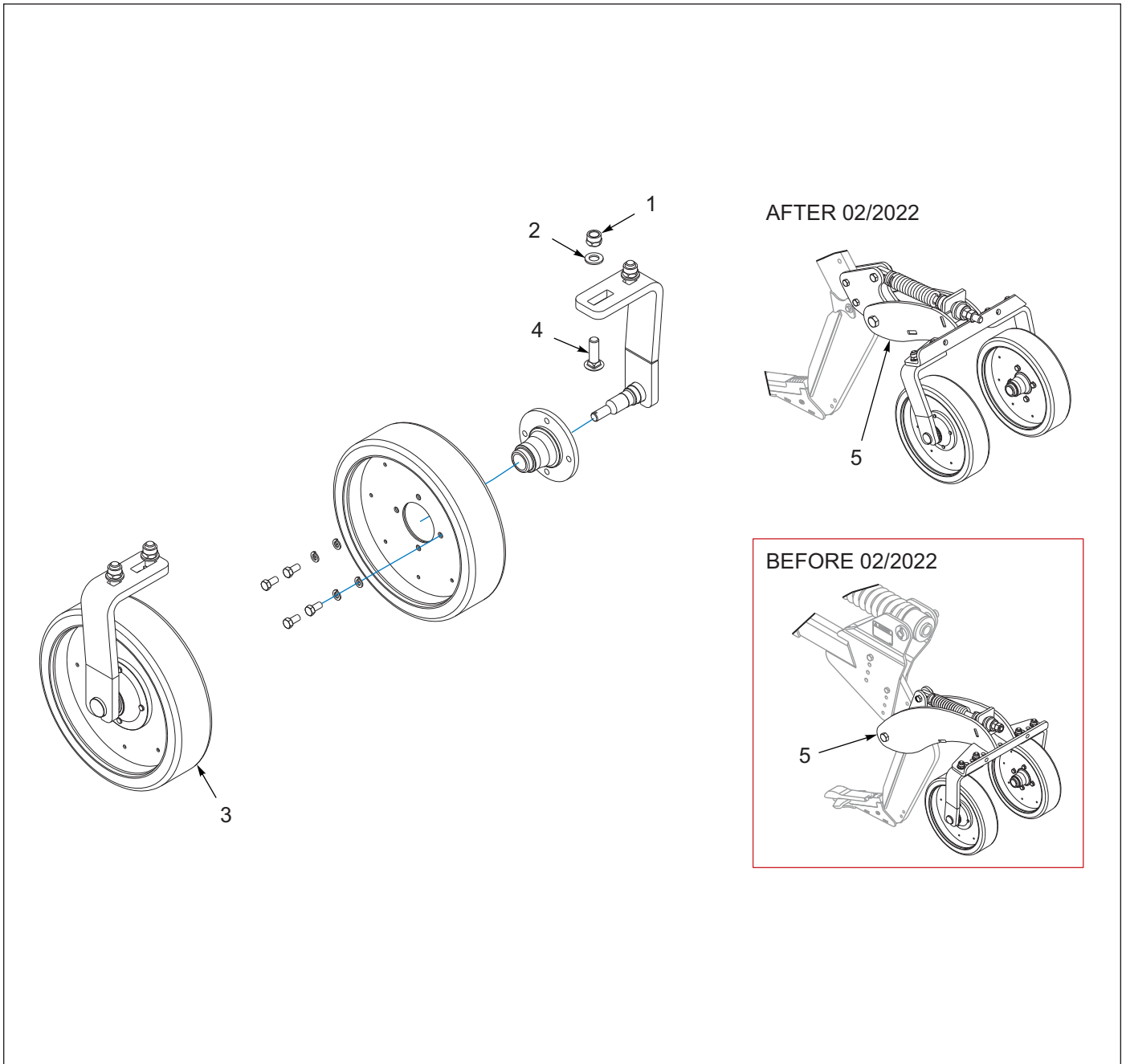


Figure 7-7: Closer Wheel

## Closer Wheel

| ITEM | PART NUMBER     | DESCRIPTION                                                                                        | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------|------|
|      | 227228          | CLOSER-WHEEL, RIPPER, ASSY                                                                         | 1    |
| 1    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                          | 4    |
| 2    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                                                           | 4    |
| 3    | 182257          | WHEEL-CLOSING ASSEMBLY                                                                             | 2    |
| 4    | 3/4-10X2-1/2CB  | SCREW,RDH SQNK 3/4-10X2-1/2                                                                        | 4    |
| 5    | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1)<br>(ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) | 1    |

## Flat Bar Basket - 20"

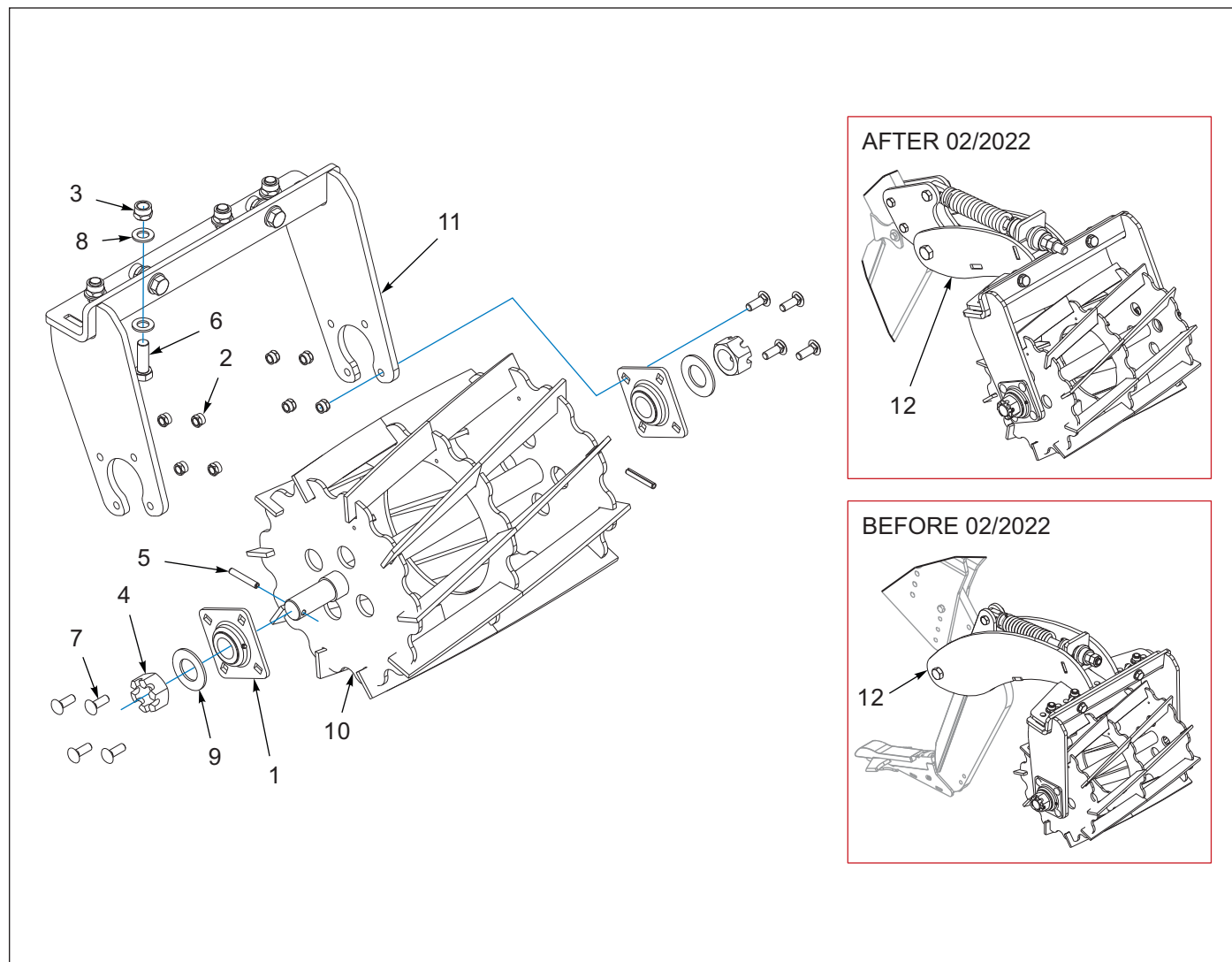


Figure 7-8: Flat Bar Basket - 20"

## Flat Bar Basket - 20"

| ITEM                                                 | PART NUMBER     | DESCRIPTION                                | QTY. |
|------------------------------------------------------|-----------------|--------------------------------------------|------|
|                                                      | 227232          | BASKET-FLAT BAR, 20 INCH, ASSY             | 1    |
| 1                                                    | 1-065-010011    | BEARING FLANGED 1-1/2ID                    | 2    |
| 2                                                    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                 | 8    |
| 3                                                    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                  | 6    |
| 4                                                    | 1-516-010001-27 | NUT,HX SLOT 1-1/2-6 ZP                     | 2    |
| 5                                                    | 1-647-010004240 | PIN,SPRING,SLOTTED 5/16X2-1/2              | 2    |
| 6                                                    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5              | 6    |
| 7                                                    | 1-654-010070-03 | SCREW RDHD SQNK1/2-13X1-1/2                | 8    |
| 8                                                    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                   | 12   |
| 9                                                    | 1-861-010032-32 | WASHER FLAT ZP/CD 1-1/2                    | 2    |
| 10                                                   | 227225          | REEL-FLAT BAR, WLDMT                       | 1    |
| 11                                                   | 227231          | FRAME-MOUNT,REEL, WLDMT                    | 1    |
| 12                                                   | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1) | 1    |
| (ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) |                 |                                            |      |

## Closer Disc

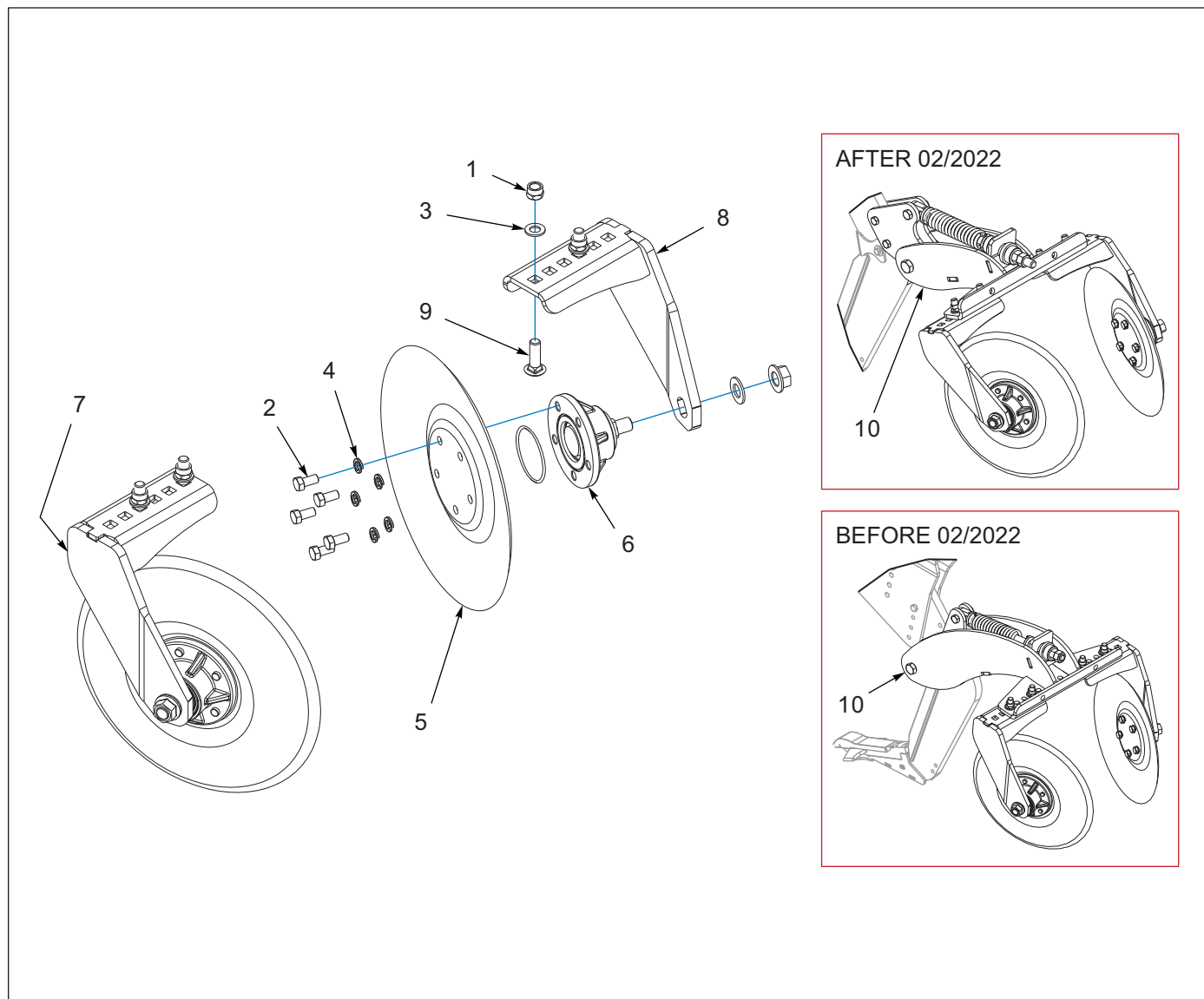


Figure 7-9: Closer Disc

## Closer Disc

| ITEM                                                 | PART NUMBER     | DESCRIPTION                                | QTY. |
|------------------------------------------------------|-----------------|--------------------------------------------|------|
|                                                      | 227236          | CLOSER-DISC, RIPPER, ASSY                  | 1    |
| 1                                                    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                  | 4    |
| 2                                                    | 1-654-010059-02 | SCREW,HEX CAP,5/8-11X1-1/4GR5              | 10   |
| 3                                                    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                   | 4    |
| 4                                                    | 1-861-010034-15 | WASHER,LKG,HLCL SPR,5/8                    | 10   |
| 5                                                    | 201244          | DISC-BLADE, 20 INCH, SMOOTH                | 2    |
| 6                                                    | 210880          | KIT-HSL DISC HUB                           | 2    |
| 7                                                    | 227170          | SHANK-LH, WLDMT                            | 1    |
| 8                                                    | 227173          | SHANK-RH,WLDMT                             | 1    |
| 9                                                    | 3/4-10X2-1/2CB  | SCREW,RDH SQNK 3/4-10X2-1/2                | 4    |
| 10                                                   | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1) | 1    |
| (ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) |                 |                                            |      |

## Crumbler Reel

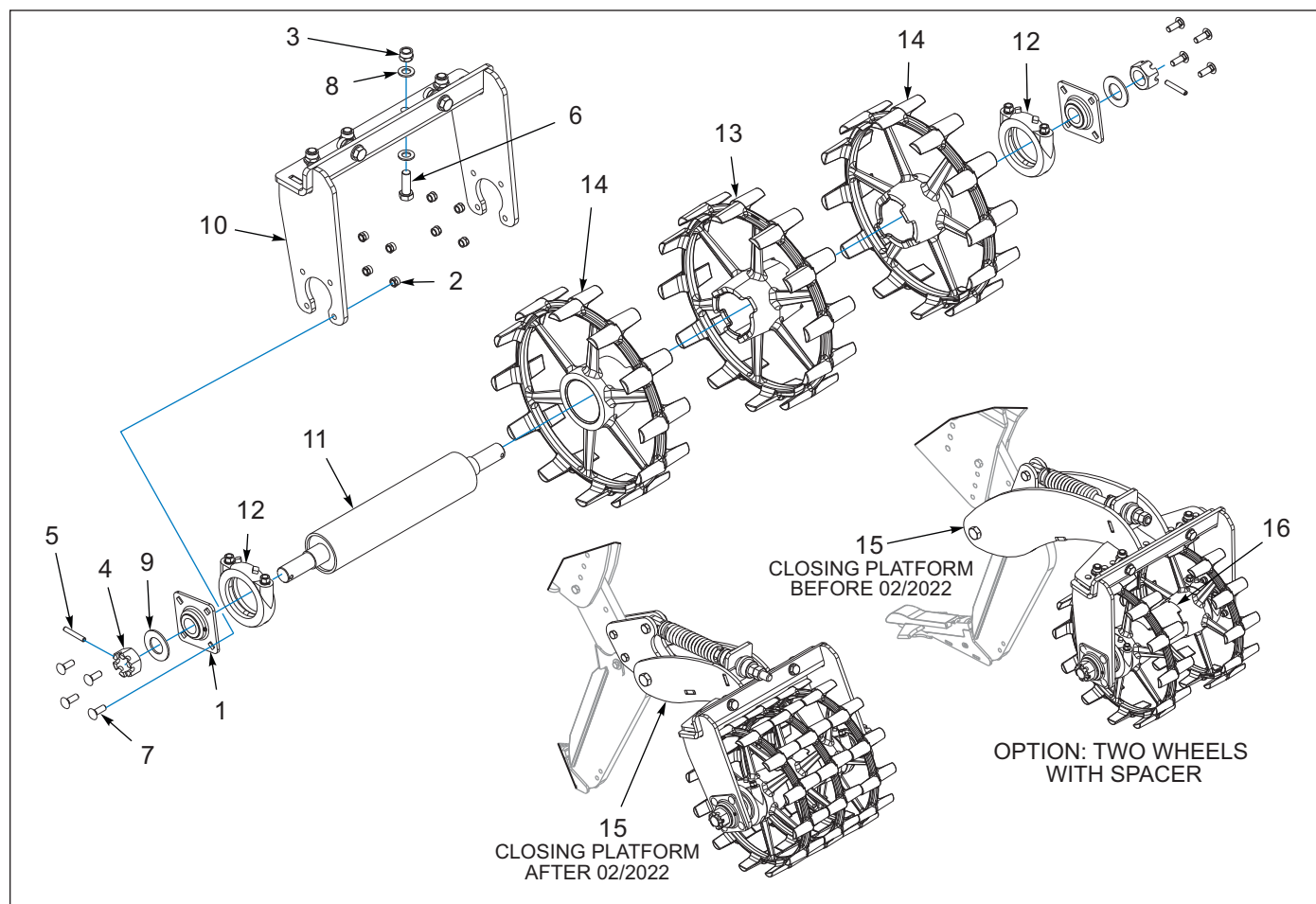


Figure 7-10: Crumbler Reel

## Crumbler Reel

| ITEM | PART NUMBER     | DESCRIPTION                                                                                        | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------|------|
|      | 227237          | REEL-CRUMBLER, ASSY                                                                                | 1    |
| 1    | 1-065-010011    | BEARING FLANGED 1-1/2ID                                                                            | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                         | 8    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                          | 6    |
| 4    | 1-516-010001-27 | NUT,HX, SLOT 1-1/2-6 ZP                                                                            | 2    |
| 5    | 1-647-010004240 | PIN,SPRING,SLOTTED 5/16X2-1/2                                                                      | 2    |
| 6    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5                                                                      | 6    |
| 7    | 1-654-010070-03 | SCREW RDHD SQNK1/2-13X1-1/2                                                                        | 8    |
| 8    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                                                           | 12   |
| 9    | 1-861-010032-32 | WASHER FLAT ZP/CD 1-1/2                                                                            | 2    |
| 10   | 227231          | FRAME-MOUNT, REEL, WLDMT                                                                           | 1    |
| 11   | 227235          | AXLE-PACKER, WLDMT                                                                                 | 1    |
| 12   | 5J375           | AXLE CLAMP ASSY                                                                                    | 2    |
| 13   | 6K351           | OPTIMIZER WHEEL (7006286) 4"                                                                       | 1    |
| 14   | 6K352           | OPTIMIZER END WHEEL (7006287)                                                                      | 2    |
| 15   | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1)<br>(ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) | 1    |
| 16   | 230839          | TUBE-SPACER, CRUMBLER                                                                              | 1    |

## FINISHING OPTIONS

## Packer Reel

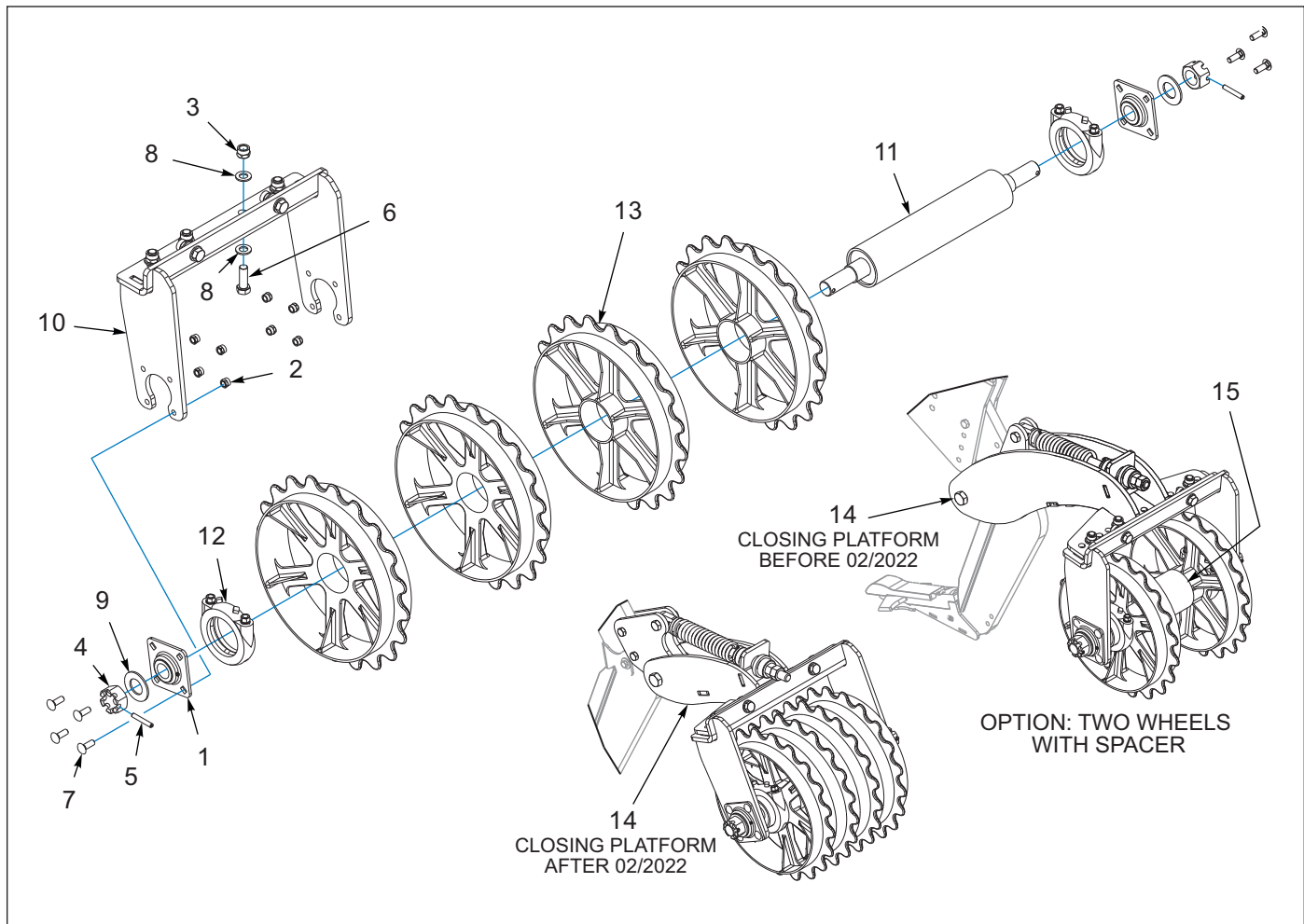


Figure 7-11: Packer Reel

## Packer Reel

| ITEM | PART NUMBER     | DESCRIPTION                                                                                        | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------|------|
|      | 227242          | REEL-PACKER, ASSY                                                                                  | 1    |
| 1    | 1-065-010011    | BEARING FLANGED 1-1/2ID                                                                            | 2    |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                         | 8    |
| 3    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                                                          | 6    |
| 4    | 1-516-010001-27 | NUT, HX SLOT 1-1/2-6 ZP                                                                            | 2    |
| 5    | 1-647-010004240 | PIN,SPRING,SLOTTED 5/16X2-1/2                                                                      | 2    |
| 6    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5                                                                      | 6    |
| 7    | 1-654-010070-03 | SCREW RDHD SQNK1/2-13X1-1/2                                                                        | 8    |
| 8    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                                                                           | 12   |
| 9    | 1-861-010032-32 | WASHER FLAT ZP/CD 1-1/2                                                                            | 2    |
| 10   | 227231          | FRAME-MOUNT, REEL, WLDMT                                                                           | 1    |
| 11   | 227235          | AXLE-PACKER, WLDMT                                                                                 | 1    |
| 12   | 5J375           | AXLE CLAMP ASSY                                                                                    | 2    |
| 13   | 9J500           | 20" DUCTILE END WHEEL 700458                                                                       | 4    |
| 14   | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1)<br>(ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) | 1    |
| 15   | 230841          | TUBE-SPACER, PACKER                                                                                | 1    |

## Treader

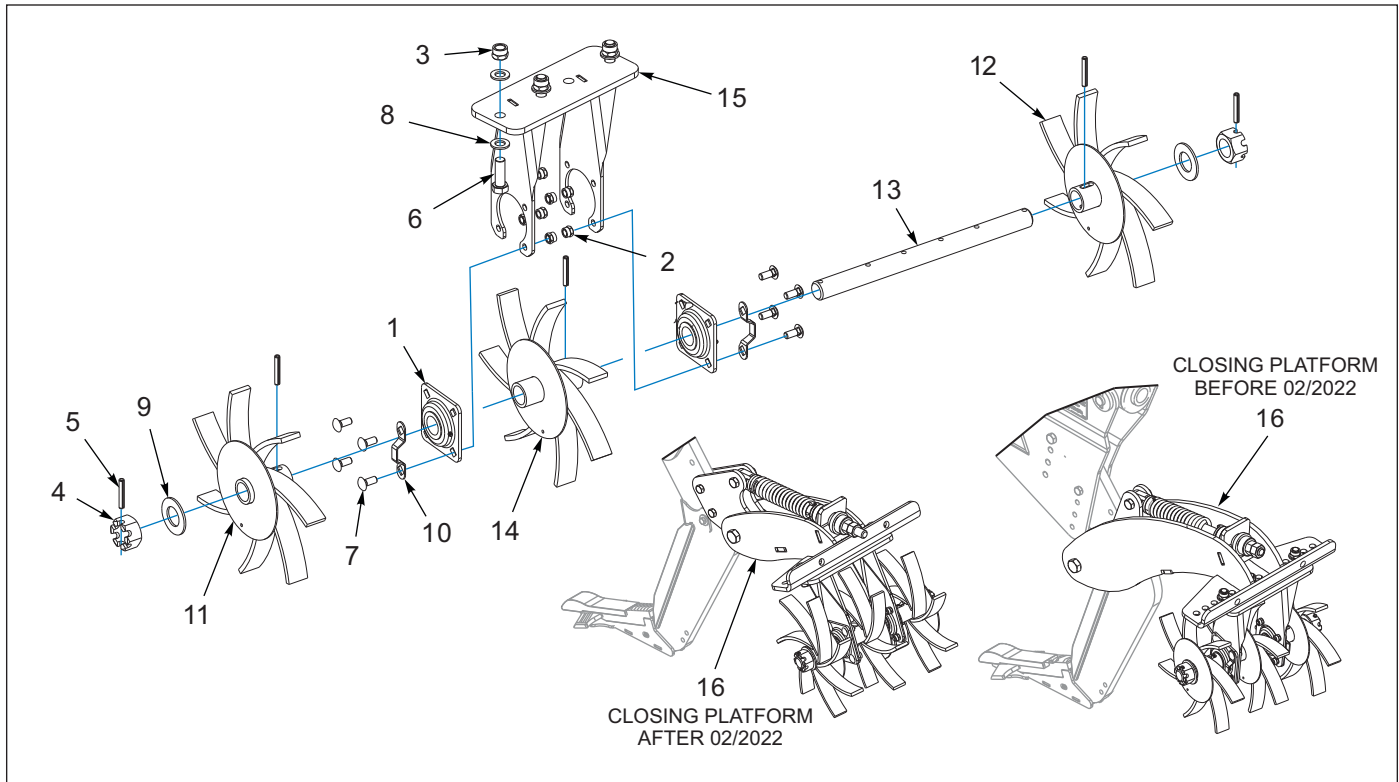


Figure 7-12: Treader

## Treader

| ITEM                                                 | PART NUMBER     | DESCRIPTION                                | QTY. |    |
|------------------------------------------------------|-----------------|--------------------------------------------|------|----|
|                                                      | 224789          | TREADER-LH, 2512, ASSY (LEFT HAND)         | 1    | -- |
|                                                      | 224790          | TREADER-RH, 2512, ASSY (RIGHT HAND)        | --   | 1  |
| 1                                                    | 1-065-010011    | BEARING FLANGED 1-1/2ID                    | 2    | 2  |
| 2                                                    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                 | 8    | 8  |
| 3                                                    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                  | 3    | 4  |
| 4                                                    | 1-516-010001-27 | NUT,HX SLOT 1-1/2-6 ZP                     | 2    | 2  |
| 5                                                    | 1-647-010004257 | PIN,SPRING,SLOTTED 3/8X2-1/2               | 5    | 5  |
| 6                                                    | 1-654-010061-06 | SCREW,HXCP,3/4-10UNCX2-1/4GR5              | 3    | 4  |
| 7                                                    | 1-654-010070-02 | SCREW 1/2-13X1-1/4 RD HD SQNK              | 8    | 8  |
| 8                                                    | 1-861-010032-20 | WASHER, FLAT,3/4 N ZP/CD                   | 7    | 8  |
| 9                                                    | 1-861-010032-32 | WASHER FLAT ZP/CD 1-1/2                    | 2    | 2  |
| 10                                                   | 206790          | PLATE, BEARING ZERK SHIELD                 | 2    | 2  |
| 11                                                   | 217077          | WLDMT,Ø 16" 7 TOOTH, LH FLAT               | 1    | -- |
| 11                                                   | 217082          | WLDMT,Ø 16" 7 TOOTH, RH FLAT               | --   | 1  |
| 12                                                   | 217079          | WLDMT,Ø 16" 7 TOOTH, LH FLAT               | 1    | -- |
| 12                                                   | 217084          | WLDMT,Ø 16" 7 TOOTH, RH FLAT               | --   | 1  |
| 13                                                   | 227163          | SHAFT-TREADER, 3 WHEEL GANG                | 1    | 1  |
| 14                                                   | 227175          | TREADER-16" 7 TOOTH, LH, WLDMT             | 1    | -- |
| 14                                                   | 227176          | TREADER-16" 7 TOOTH, RH, WLDMT             | --   | 1  |
| 15                                                   | 227179          | HANGER-BEARING, LH, WLDMT                  | 1    | -- |
| 15                                                   | 227180          | HANGER-BEARING, RH, WLDMT                  | --   | 1  |
| 16                                                   | 227150          | PLATFORM-CLOSING, 2512, ASM (SEE PAGE 7-1) | 1    | 1  |
| (ALWAYS REPLACE W/ "AFTER 02/2022" CLOSING PLATFORM) |                 |                                            |      |    |

# Decals

## Decals

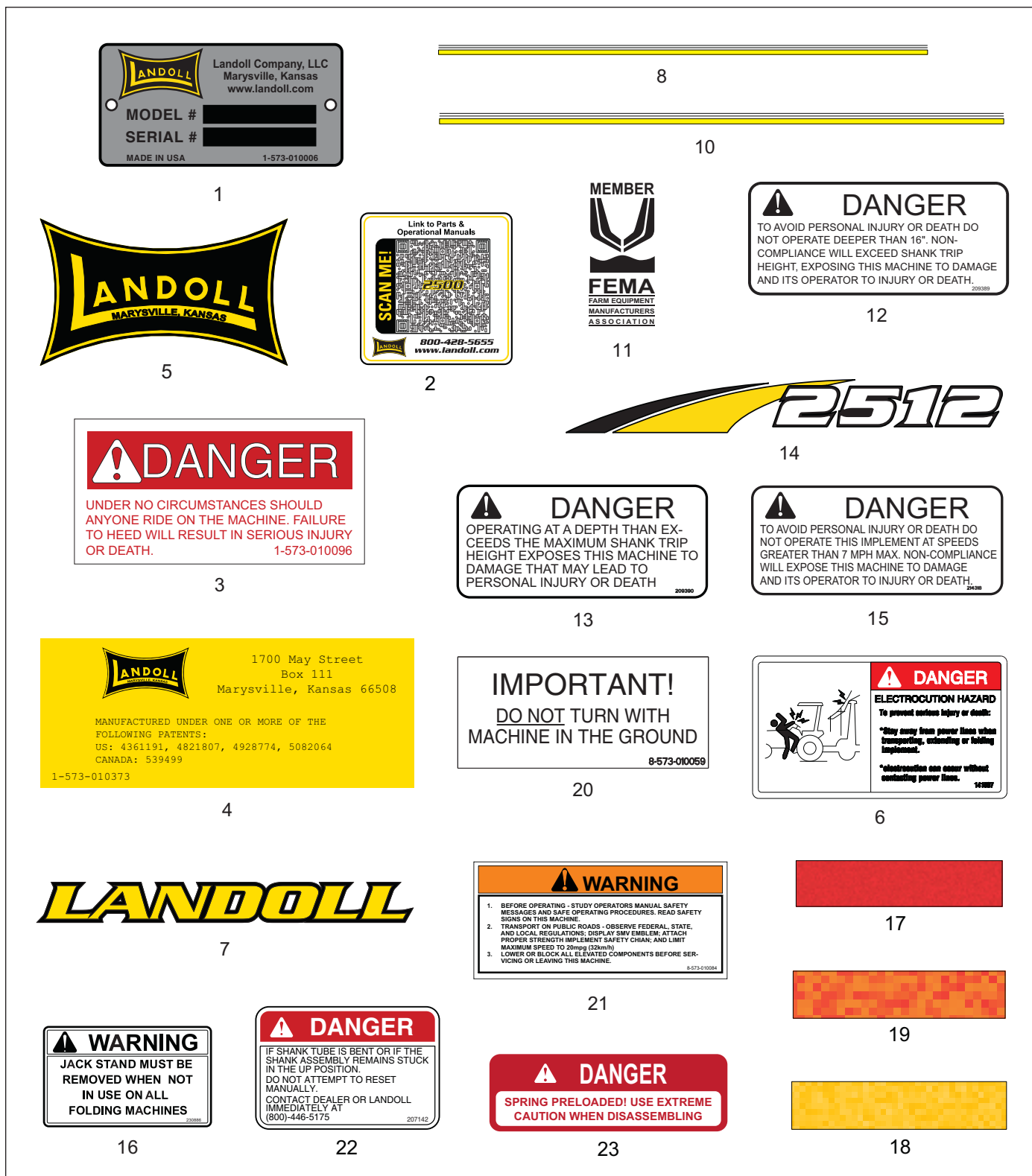


Figure 8-1: Decals

## Decals

| ITEM | PART NUMBER  | DESCRIPTION                                                     | QTY. |
|------|--------------|-----------------------------------------------------------------|------|
| 1    | 1-573-010006 | PLACARD, NAME                                                   | 1    |
| 2    | 232182       | DECAL-QR CODE, 2500 SERIES                                      | 1    |
| 3    | 1-573-010096 | DECAL, DANGER NO RIDERS                                         | 1    |
| 4    | 1-573-010373 | DECAL, PATENT TILLAGE                                           | 1    |
| 5    | 141259       | DECAL, LANDOLL, YELLOW                                          | 4    |
| 6    | 141597       | DECAL, DANGER ELECTROCUTION                                     | 1    |
| 7    | 148337       | ATTACHMENT DECAL, LANDOLL                                       | 2    |
| 8    | 151539       | DECAL, STRIPE 1" X 54"                                          | 4    |
| 9    | 156010       | RIVET, BLIND, .156 X 1/2 GRIP                                   | 2    |
| 10   | 161515       | DECAL, STRIPE 1" X 84"                                          | 2    |
| 11   | 2-573-010198 | DECAL, MEMBER FEMA                                              | 1    |
| 12   | 209389       | DECAL - DANGER, 16 IN DEPTH <b>(SPRING AUTO RESET ONLY)</b>     | 1    |
| 13   | 209390       | DECAL - DANGER, OPERATING DEPTH <b>(SPRING AUTO RESET ONLY)</b> | 1    |
| 14   | 210881       | DECAL, MODEL 2512                                               | 4    |
| 15   | 214318       | DECAL, 7 MPH MAX <b>(HYDRAULIC RESET ONLY)</b>                  | 1    |
| 16   | 230886       | DECAL, JACK STAND                                               | 1    |
| 17   | 528933       | REFLECTOR - RED                                                 | 2    |
| 18   | 528934       | REFLECTOR - YELLOW                                              | 2    |
| 19   | 528938       | STRIPE, ORANGE                                                  | 2    |
| 20   | 8-573-010059 | DECAL IMPORTANT NO TURNING                                      | 1    |
| 21   | 8-573-010084 | DECAL WARNING BEFORE OPERATG                                    | 1    |
| 22   | 207142       | DECAL, DANGER STUCK SHANK <b>(ONE PER SHANK)</b>                | REF  |
| 23   | 2-573-010469 | DECAL, DANGER SPRING <b>(ONE PER SHANK)</b>                     | REF  |
| 24   | 227277       | DECAL, DEPTH GAUGE, LH <b>(SEE PAGE 1-25) (SEE PAGE 1-27)</b>   | 1    |
| 25   | 227278       | DECAL, DEPTH GAUGE, RH <b>(SEE PAGE 1-25) (SEE PAGE 1-27)</b>   | 1    |

## Decal Placement

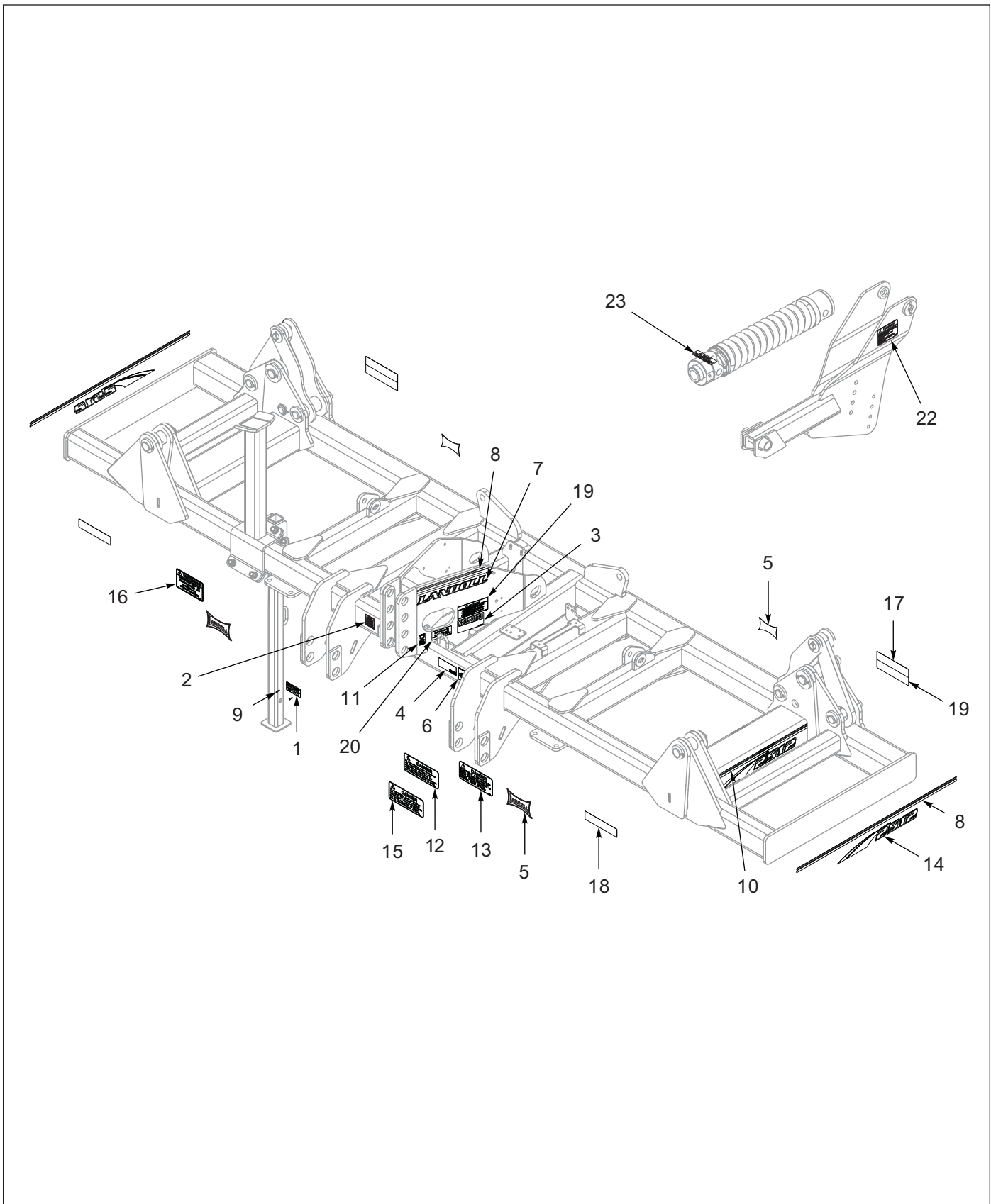


Figure 8-2: Decal Placement

## Glossary

For clarity this glossary of industry standard abbreviations and their definitions are provided.

**A**

**ASM** ..... Assembly

**B**

**BATT** ..... Battery  
**BHSC** ..... Button Head Socket Cap  
**BLK** ..... Black

**C**

**CB** ..... Carriage Bolt  
**CONN** ..... Connector  
**CRG** ..... Carriage  
**CTSK** ..... Countersunk  
**CTWT** ..... Counterweight  
**CVR** ..... Cover  
**CYD** ..... Cylinder

**D**

**DBL** ..... Double  
**DIA** ..... Diameter

**E**

**ENCLSD** ..... Enclosed

**F**

**FHCS** ..... Flanged Head Cap Screw  
**FHHCS** ..... Flanged Hex Head Cap Screw  
**FL OR FLG** ..... Flange  
**FLT** ..... Flat

**G**

**GA** ..... Gauge

**H**

**HHCS** ..... Hex Head Cap Screw  
**HCS** ..... High Carbon Steel  
**HD** ..... Head  
**HLCL** ..... Helical  
**HCSKT** ..... Hex Socket  
**HSFC** ..... Hex Socket Flat Countersunk  
**HYD** ..... Hydraulic

**I**

**ID** ..... Inside Diameter

**L**

**LH** ..... Lefthand  
**LKG OR LOCK** ..... Locking  
**LWR** ..... Lower

**M**

**MANF** ..... Manifold  
**MNT** ..... Mount

**N**

**NRW** ..... Narrow  
**-----** ..... Not Serviced Separately

**O**

**OD** ..... Outside Diameter  
**OHG** ..... Overhead Guard  
**ORFS OR ORS** ..... O-Ring Seal  
**ORP OR ORB** ..... O-Ring Boss

**P**

**P-STEER** ..... Power Steering  
**PTFE** ..... Polytetrafluoroethylene (Teflon)

**GLOSSARY**

---

**R**

---

RH ..... Righthand  
RND ..... Round

**S**

---

SER ..... Series  
SHCS ..... Socket Head Cap Screw  
SHLD ..... Shield  
SKT ..... Socket  
SLFLKG ..... Selflocking  
SOC ..... Socket  
SPDT ..... Single Pole Double Throw  
SPR ..... Spring  
SQ ..... Square  
SRTD ..... Serrated  
SSCR ..... Setscrew  
SST ..... Stainless Steel  
STD ..... Standard

**U**

---

UPR ..... Upper

**W**

---

WHL ..... Wheel  
WLD OR WLDMT ..... Weldment

## Numerics

|                      |                                                         |                       |                                                                                                                                                     |
|----------------------|---------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
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**C**

# Instructions for Ordering Parts

**\*\* Repair parts must be ordered through an Authorized Dealer \*\***

## DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: [dealer.landoll.com](http://dealer.landoll.com)

### DATA PLATE

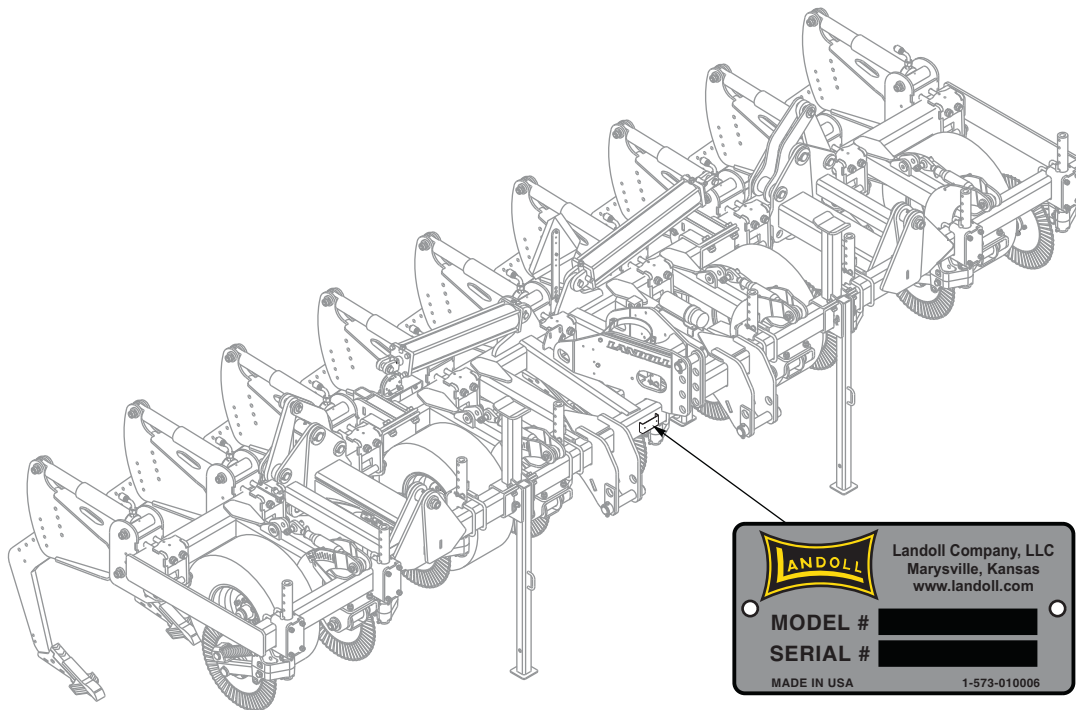
The Data Plate, which lists the model number and serial number, is located on the front of the frame.

### SERIAL NUMBER

The following information will help decode the serial number.

**25C2400100 = xxmyysssss**

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| <b>xx</b>    | = model series<br>(i.e. "25" for all In-Line Rippers)                      |
| <b>m</b>     | = month of manufacture<br>(ex. "C" means March. The letter I is not used.) |
| <b>yy</b>    | = year manufactured<br>(ex. "24" means 2024)                               |
| <b>sssss</b> | = sequential number used to track warranty<br>and service information.     |



**Figure: Data Plate**

## Manuals for 2512 In-Line Ripper and Caddy

FOR UNITS SHIPPED AFTER DECEMBER 1, 2020 (SN: 25M201237 AND ABOVE)

PREVIOUS UNITS SHOULD REFERENCE F-1039-0320

| Manual Number | Manual Type                                      |
|---------------|--------------------------------------------------|
| F-1040        | Operator's Manual                                |
| F-1039        | Parts Manual ( <b>2512 In-Line Ripper ONLY</b> ) |
| F-1075        | Caddy Parts Manual ( <b>ONLY</b> )               |

## Document Control Revision Log:

| Date       | Form #      | Improvement(s): Description and Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03/06/2020 | F-1039      | New Parts Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12/2020    | F-1039-1220 | ECN 46496, 46468, 46559 - Added Shanks, Decals, Hydraulic Hose Asm<br>ECN 46500, 46650 - Frame, Warning Lights<br>Added Closer Platform and Finishing Features, Available Points                                                                                                                                                                                                                                                                                                                      |
| 01/2021    | F-1039-0121 | ECN 46795 - Updated Wing Rest Weldments<br>ECN 46837 - Added Rear Jack Option and Decals                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10/2021    | F-1039-1021 | ECN 46857, 47254 - Updated Frame Weldment, Shank, Shank Points, Shank Clamp<br>ECN 47263 - Added Cylinder Stop, Hyd. Adapter Kit, Updated Keeper Wear Guard<br>ECN 47137, 47144, 47307 - Changes to Front Jack Mount, Updated Decals,<br>ECN 47438 - Changes to Folding Frame, Hydraulic Cylinder<br>ECN 47589 - Rev. to Hyd. Shank Hose Asm, Jack and Wing Rest, Stop Cylinders<br>ECN 47623 - Revisions to Parabolic Shank, 1-1/4<br>Added Finishing Treader Option, Added Coulter Center Positions |
| 12/2021    | F-1039-1221 | ECN 47679 - Rev. to Parabolic Keeper-Wear Guard and Parabolic Shank Hardware                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 01/2022    | F-1039-0122 | ECN 47822 - Add Shank Hardware Kit<br>ECN 47824 - Revised Parabolic Keeper-Wear Guard, Clamp Designs/Torque Values                                                                                                                                                                                                                                                                                                                                                                                    |
| 05/2022    | F-1039-0522 | ECN 47953, 48076 - Updated Closing Platform Design, Updated Coulter Asm                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 06/2022    | F-1039-0622 | ECN 48205 - Added Rear Tow Bar Hitch<br>ECN 48212 (CASR 2283)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 01/2023    | F-1039-0123 | ECN 48550 - Doubler Plates Added to Rigid Frame, Hitch Pin Changes                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 03/2023    | F-1039-2303 | ECN 48729 - Changes to Shank Clamp<br>ECN 48900 - Change to 233855 Frame - Cylinder Mount Plates<br>*Revision Format "Year/Month"<br>07/11/2023 - Correction "Folding Frame" pages 1-3, 1-6 (Item 41, 42)                                                                                                                                                                                                                                                                                             |
| 09/2023    | F-1039-2309 | ECN 49102 - Revised Wheel Gauges, Auto Reset Spring Clamp (and w/Setback),<br>Wing Rest Weldments, Hose Assemblies, Accumulator Assembly                                                                                                                                                                                                                                                                                                                                                              |
| 01/2024    | F-1039-2401 | ECN 49405, 49409, 49479, 49597 - Coverboard Kit, Warning Light Mount Bracket<br>Depth Gauge Decal, Shanks, Clamps<br>ECN 49817 - New Radius for Jack Stand Weldment (PUB 03/15/2024)<br>Updated ISO logos to ISO 9001:2015 (Revised 04/2024)                                                                                                                                                                                                                                                          |
| 06/2024    | F-1039-2406 | ECN 49901 - Rigid Clamp and Shanks Assemblies<br>ECN 49957 - Revised Closing Platform                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 07/2024    | F-1039-2407 | Rebranding to "In-Line" Ripper<br>ECN 50134 - Adapter Quantities (PUB 09/11/2024)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 09/2024    | F-1039-2409 | ECN 50222 - Closing Platform Bolt Change                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11/2024    | F-1039-2411 | Add Wing Lock Kit<br>ECN 50527 - Change to Wear Guard Keeper (PUB 01/27/2025)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 05/2025    | F-1039-2505 | ECN 50633 - Auto Reset Shank Clamp Asm, Hydraulic and Setback<br>ECN 50960 - Shank Clamp Assemblies (PUB 06/12/2025)                                                                                                                                                                                                                                                                                                                                                                                  |
| 10/2025    | F-1039-2510 | ECN 49601, 49641 - Shear Bolt changes to 243130 & 242821 Shank Clamp Asm                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 01/2026    | F-1039-2601 | ECN 51698 - 243130 & 218760 Shank Clamp Asm<br>ECN 52123 - Finishing Roll Pin (PUB 06/24/2026)                                                                                                                                                                                                                                                                                                                                                                                                        |
| 07/2026    | F-1039-2607 | ECN 51800 - 3/4 Straight Leg Shank and Point                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



**intertek**

Equipment from Landoll Company, LLC is built to  
exacting standards ensured by ISO 9001:2015 registration  
at all Landoll manufacturing facilities.

## **2512 In-Line Ripper**

FOR UNITS SHIPPED AFTER DECEMBER 1, 2020  
(SN:25M201237 AND ABOVE)  
PREVIOUS UNITS SHOULD REFERENCE F-1039-0320

## **Parts Manual**

# **Re-Order Part Number F-1039**

### **LANDOLL COMPANY, LLC**

1900 North Street  
Marysville, Kansas 66508  
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**800-428-5655 ~ WWW.LANDOLL.COM**



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