



# **330D**

## **Semi Trailer**

## **Parts Manual**



**LANDOLL COMPANY, LLC.**

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ **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)

### IDENTIFICATION PLATE

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

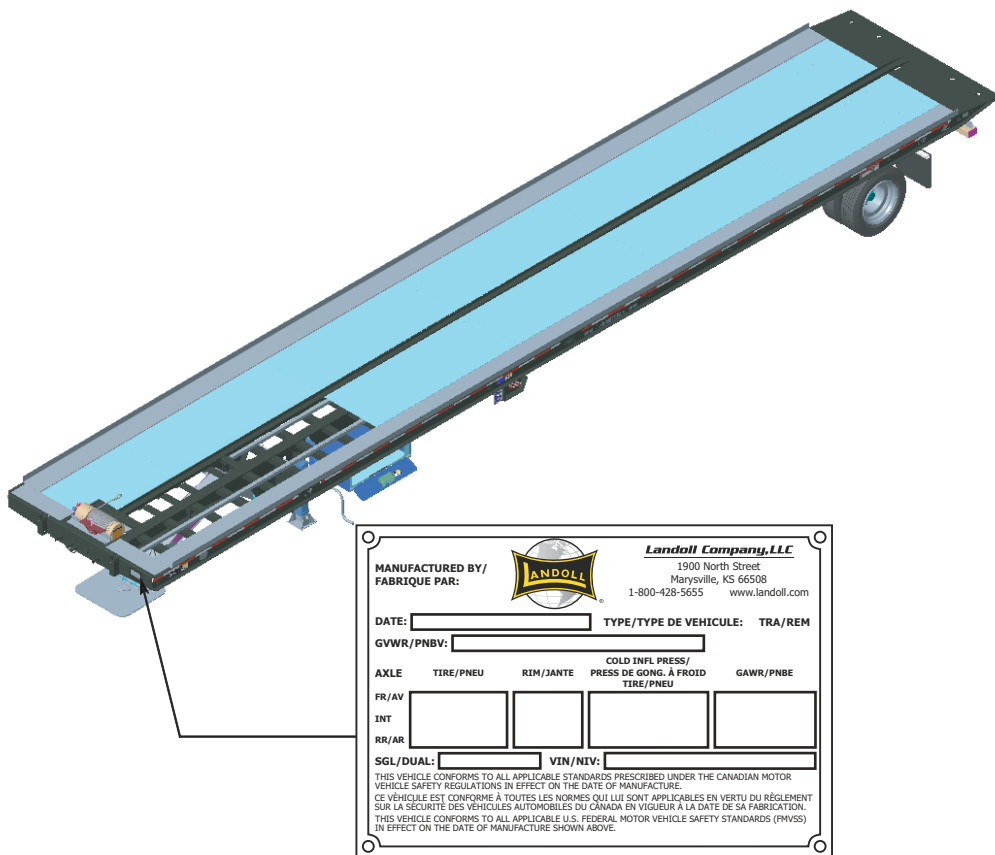
### SERIAL NUMBER

The serial number is located on the identification plate.  
The Following information will help decode the trailer serial number

**AAABBBBCDEFGHJJJJJ**

|            |                                 |
|------------|---------------------------------|
| <b>AAA</b> | = world manufacturer identifier |
| <b>BBB</b> | = model                         |
| <b>C</b>   | = length                        |
| <b>D</b>   | = axle type                     |
| <b>E</b>   | = federal check digit           |

|             |                        |
|-------------|------------------------|
| <b>F</b>    | = model year           |
| <b>G</b>    | = plant of manufacture |
| <b>H</b>    | = model version        |
| <b>JJJJ</b> | = serial number        |



**Identification Plate and Location**

## Manuals for 330D Semi Trailer

| Manual Number | Manual Type       |
|---------------|-------------------|
| F-1165        | Operator's Manual |
| F-1022        | Parts Manual      |

# Table of Contents

---

## 1 Decals

|                         |     |
|-------------------------|-----|
| Decal Arrangement ..... | 1-1 |
|-------------------------|-----|

## 2 Frame Assembly

|                            |     |
|----------------------------|-----|
| Deck Assembly .....        | 2-1 |
| Manual Tube .....          | 2-5 |
| Fifth Wheel Assembly ..... | 2-7 |

## 3 Undercarriage Assembly

|                                                      |      |
|------------------------------------------------------|------|
| General Assembly, Single Axle .....                  | 3-1  |
| General Assembly, Tandem Axle .....                  | 3-5  |
| Axle 12.25 Disc Brakes & Hub Assembly (OPTION) ..... | 3-9  |
| Axle 12.25 x 7.5 Drum Brakes .....                   | 3-13 |
| Axle 12.25 x 7.5 Drum & Hub Assembly .....           | 3-15 |
| Axle 16.5 Disc Brakes & Hub Assembly (OPTION) .....  | 3-17 |
| Axle 16.5 x 7 Drum Brakes .....                      | 3-21 |
| Axle 16.5 x 7 Drum & Hub Assembly .....              | 3-23 |
| Axle Suspension, RLU-228, 12.25 & 16.5 .....         | 3-25 |
| Axle Suspension, LSS-25K-3.5 RLU, 12.25 .....        | 3-29 |
| Axle Suspension, LSS-25K-5.5RLU, 16.5 .....          | 3-31 |
| Shock Strap, Limit, RLU 228-3.5 (OPTION) .....       | 3-33 |
| Shock Strap, Limit, RLU 228-5.5 (OPTION) .....       | 3-34 |
| Shock Strap, Limit, LSS-25K-3.5 (OPTION) .....       | 3-35 |
| Shock Strap, Limit, LSS-25K-5.5 (OPTION) .....       | 3-36 |
| Bumper, Cam Follower, E-Chain & Mud Flap .....       | 3-37 |
| Wheels .....                                         | 3-39 |

## 4 Bulkhead Assembly

|                                     |     |
|-------------------------------------|-----|
| Bulkhead, 2 Position (OPTION) ..... | 4-1 |
| Rack, Spare Tire (OPTION) .....     | 4-3 |

## 5 Landing Gear Assembly

|                                                              |     |
|--------------------------------------------------------------|-----|
| Landing Legs, Gear, 2 Spd, Flip Crank, Low Mt Plate .....    | 5-1 |
| Landing Legs, Gear, 2 Spd, Flip Crank, Rear Low Mt Bkt ..... | 5-3 |
| Landing Legs, Gear, 2 Spd, Pin Crank, Front Low Mt Bkt ..... | 5-4 |
| Landing Legs, Gear, 2 Spd, Pin Crank, Rear Low Mt Bkt .....  | 5-5 |
| Landing Legs, Pinned .....                                   | 5-6 |
| Landing Legs Components, Gear, 2 Spd .....                   | 5-7 |

## 6 Storage and Tie Down Assemblies

|                                                           |     |
|-----------------------------------------------------------|-----|
| Chain Assembly, Container Loading, 1 Chain .....          | 6-1 |
| Chain Assembly, Container Loading, 3 Chain (OPTION) ..... | 6-2 |
| Chain Assembly, Single Hook .....                         | 6-3 |
| Container, Pusher Assembly .....                          | 6-4 |
| Container, Hook Assembly .....                            | 6-5 |

|                                                     |      |
|-----------------------------------------------------|------|
| Container, Stop / Lock Pin Assembly .....           | 6-6  |
| Storage, Emergency Cone (OPTION) .....              | 6-7  |
| Toolbox, Bolt-On, 42"W X 28"D X 9"H (OPTIONS) ..... | 6-9  |
| Toolbox, Bolt-On, 42"W X 28"D X 17"H (OPTION) ..... | 6-11 |

## 7 Air System

|                                                                   |      |
|-------------------------------------------------------------------|------|
| Air System - Standard & Low Load Angle .....                      | 7-1  |
| Anti-Lock Brake System, Single Axle .....                         | 7-3  |
| Anti-Lock Brake System, Tandem Axle .....                         | 7-5  |
| Anti-Lock Brake Kit, Components .....                             | 7-7  |
| Control, Air Suspension Height, Single Axle .....                 | 7-9  |
| Control, Air Suspension Height, Tandem Axle .....                 | 7-11 |
| Air Control Kit .....                                             | 7-13 |
| Tire Inflation System, Single Axle (OPTION) .....                 | 7-15 |
| Tire Inflation System, Tandem Axle (OPTION) .....                 | 7-17 |
| Tire Inflation System, Air & Electrical Components (OPTION) ..... | 7-19 |

## 8 Electrical System

|                                                              |     |
|--------------------------------------------------------------|-----|
| Frame, Harness & Lights .....                                | 8-1 |
| Frame, Harness, Rear Bumper .....                            | 8-3 |
| Wireless Remote Assembly, Kar-Tech (BEFORE 08/01/2019) ..... | 8-5 |
| Wireless Remote Assembly, Brand (AFTER 08/01/2019) .....     | 8-7 |

## 9 Grease System

|                                   |     |
|-----------------------------------|-----|
| Frame, Single Axle Assembly ..... | 9-1 |
| Frame, Tandem Axle Assembly ..... | 9-3 |

## 10 Hydraulic System

|                                                             |       |
|-------------------------------------------------------------|-------|
| Connectors, Front Sub Assembly, Air & Hydraulic .....       | 10-1  |
| Fifth Wheel .....                                           | 10-3  |
| Standard & Low Load Angle Cylinder Assembly .....           | 10-5  |
| Chain Drive System .....                                    | 10-7  |
| Cylinder Assembly, Standard Load Angle .....                | 10-9  |
| Cylinder Assembly, Low Load Angle (317 / 318) .....         | 10-10 |
| Cylinder, Hydraulic, 4 x 126 .....                          | 10-11 |
| Cylinder, Hydraulic, 4 x 42 W/Counterbalance Valve .....    | 10-12 |
| Valve Assembly .....                                        | 10-13 |
| Valve Assembly, Components .....                            | 10-15 |
| Kit, Conversion & Repair, Quick Coupler, Ball to Flat ..... | 10-17 |
| Kit, Wet, Hydraulic (OPTION) (BEFORE 02/21/2019) .....      | 10-19 |
| Kit, Wet, Hydraulic (OPTION) (AFTER 02/21/2019) .....       | 10-21 |

## 11 Winch Assembly (OPTIONS)

|                                                      |       |
|------------------------------------------------------|-------|
| Chain Drive Installation, Braden .....               | 11-1  |
| Chain Drive Components, Gearbox .....                | 11-3  |
| Winch Installation, Braden 12K / 20K (OPTIONS) ..... | 11-5  |
| Winch Assembly, Braden 12K / 20K (OPTION) .....      | 11-7  |
| Winch Components, Braden 12K (OPTION) .....          | 11-9  |
| Winch Components, Braden 20K (OPTION) .....          | 11-13 |



|                                                  |       |
|--------------------------------------------------|-------|
| Winch Motor Assembly, Braden 12K / 20K .....     | 11-17 |
| Winch Guide, Braden 20K, 4-Roller (OPTION) ..... | 11-19 |

## **12 Engine Assembly (OPTIONS)**

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) ..... | 12-1  |
| Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) ..... | 12-9  |
| Engine, Mount, Upper Deck Stand Assembly (OPTION) .....              | 12-17 |

## **13 Glossary**

## **14 Index**

## Decals

## Decal Arrangement



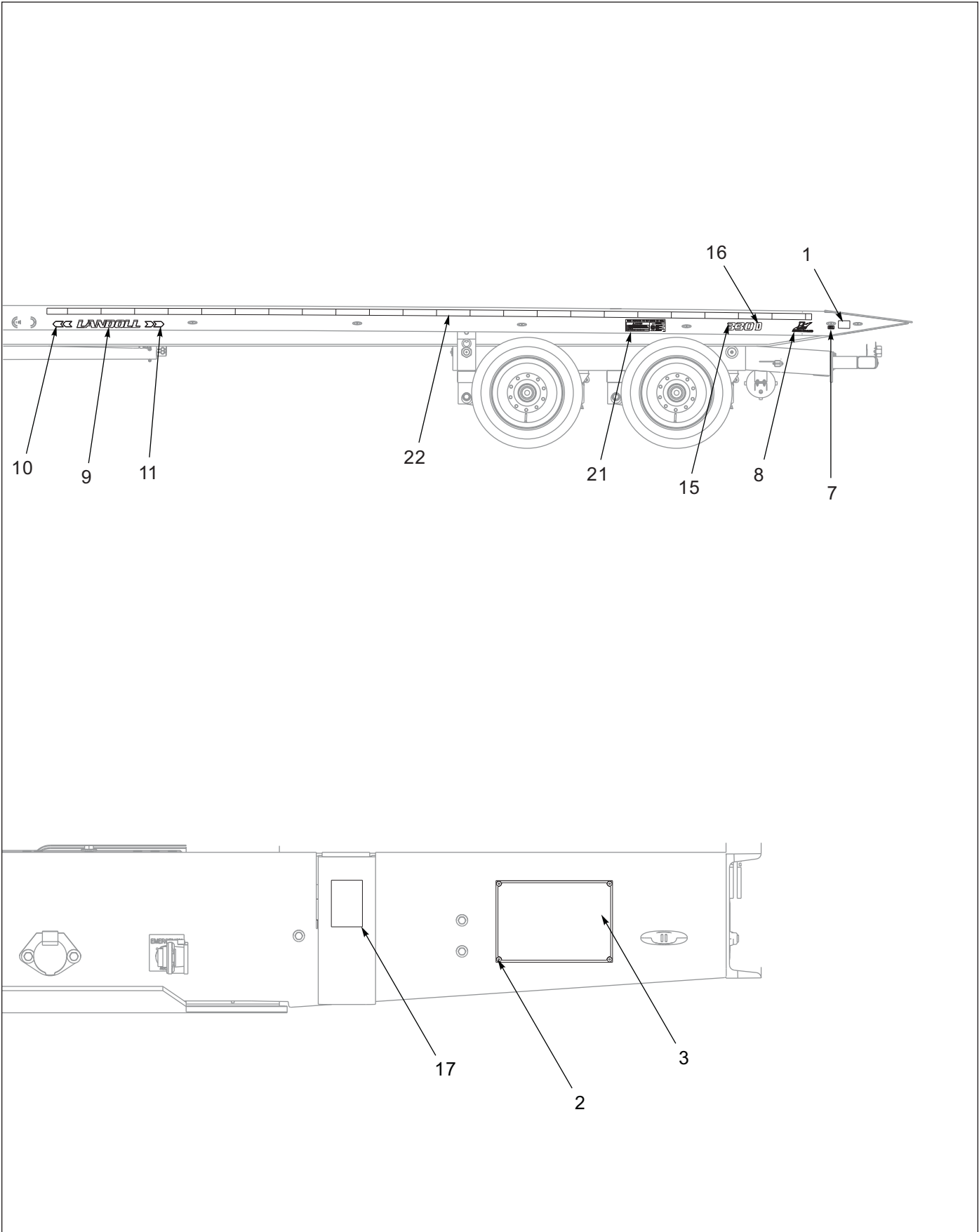


Figure 1-2: Decal Arrangement (2 of 3)

**3300D**

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 1900 North Street  
 Maryville, KS 66508  
 1-800-428-5655 www.landoll.com

MANUFACTURED BY /  
 FABRIQUE PAR: **LANDOLL**

DATE: \_\_\_\_\_ TYPE/TYPE DE VEHICULE: TRA/REM

GVWR/PNBV: \_\_\_\_\_

| AXLE  | TIRE/PNEU | RIM/JANTE | COLD INFL PRESS /<br>PRESS DE GONG. A FROID | GAWR/PMBE |
|-------|-----------|-----------|---------------------------------------------|-----------|
| FR/AV |           |           |                                             |           |
| INT   |           |           |                                             |           |
| RR/AR |           |           |                                             |           |

SGL/DUAL: \_\_\_\_\_ VIN/NIV: \_\_\_\_\_

THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE.  
 CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.  
 THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS (FMVSS) IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

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| TANK                 | IMPORTANT                                                                                                                                                                                                                                            | PRESSURE           |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                      | CONNECT FEMALE HYDRAULIC COUPLER FROM TRACTOR WET KIT OR ENGINE PACKAGE TO MALE HYDRAULIC COUPLER AT FRONT OF TRAILER FIRST TO RELIEVE PRESSURE IN TRAILER LINES.<br>TRACTOR MUST BE EQUIPPED WITH A RELIEF VALVE SET AT MAXIMUM OF 2500 PSI. 105622 |                    |
| FEMALE QUICK COUPLER |                                                                                                                                                                                                                                                      | MALE QUICK COUPLER |

**TORQUE SPECIFICATIONS FOR PILOT MOUNTED DISC WHEELS**

21

9

Figure 1-3: Decal Arrangement (3 of 3)

## Decal Arrangement

| ITEM | PART NUMBER  | DESCRIPTION                                                                        | QTY. |
|------|--------------|------------------------------------------------------------------------------------|------|
|      | 201058       | DECAL INSTL, 330D TANDEM AXLE                                                      | --   |
|      | 201059       | DECAL INSTL,330D SINGLE AXLE                                                       | --   |
| 1    | 101855       | WARNING LAMP LABEL,ABS                                                             | 1    |
| 2    | 12420301-017 | RIVET,BLIND .156 X 1/4 GRIP                                                        | 4    |
| 3    | 155780       | TRAILER VIN PLATE                                                                  | 1    |
| 4    | 171220       | DECAL OPERATION 1-AXLE TB                                                          | 1    |
| 5    | 171221       | DECAL, DANGER ELECTROCUTION                                                        | 1    |
| 6    | 184212       | DECAL, SWITCH SERIES 300                                                           | 1    |
| 7    | 189292       | DECAL, ABS, WHITE                                                                  | 1    |
| 8    | 196165       | DECAL HIGHWAY L                                                                    | 2    |
| 9    | 196167       | DECAL LANDOLL SMALL                                                                | 2    |
| 10   | 196168       | DECAL ARROW SMALL 2LH                                                              | 2    |
| 11   | 196169       | DECAL ARROW SMALL 2RH                                                              | 2    |
| 12   | 196172       | DECAL BOWTIE SMALL                                                                 | 2    |
| 13   | 196173       | DECAL POWDERCOAT SMALL                                                             | 1    |
| 14   | 196180       | DECAL NEXT GENERATION SMALL                                                        | 2    |
| 15   | 196182       | DECAL 330 TRAILER                                                                  | 2    |
| 16   | 200525       | DECAL, LETTER D, 2-1/2"                                                            | 2    |
| 17   | 202578       | REFLEXITE WHITE 3" LENGTH                                                          | 2    |
| 18   | 3-573-010038 | DECAL CAUTION                                                                      | 1    |
| 19   | 3-573-010086 | DECAL CONCEN LOAD 20000 LBS <b>(TANDEM AXLE ONLY)</b>                              | 2    |
| 20   | 3-573-010134 | DECAL, CONC LOAD 10000 LBS <b>(SINGLE AXLE ONLY)</b>                               | 1    |
| 21   | 3-573-010210 | DECAL TORQUE SPEC 8-10STU HUB                                                      | 2    |
| 22   | 3-573-010377 | DECAL,2"REFLEXITE TAPE,RD/WHT                                                      | 1200 |
| 23   | 900-44-207   | DECAL                                                                              | 1    |
| 24   | 105822       | DECAL, HYD COUPLER<br><b>(BEFORE 03/01/2022 REQ 1 EACH - AFTER NO LONGER USED)</b> | --   |
| 25   | 225945       | DECAL, QR CODE 330 SERIES                                                          | 1    |

# Frame Assembly

## Deck Assembly

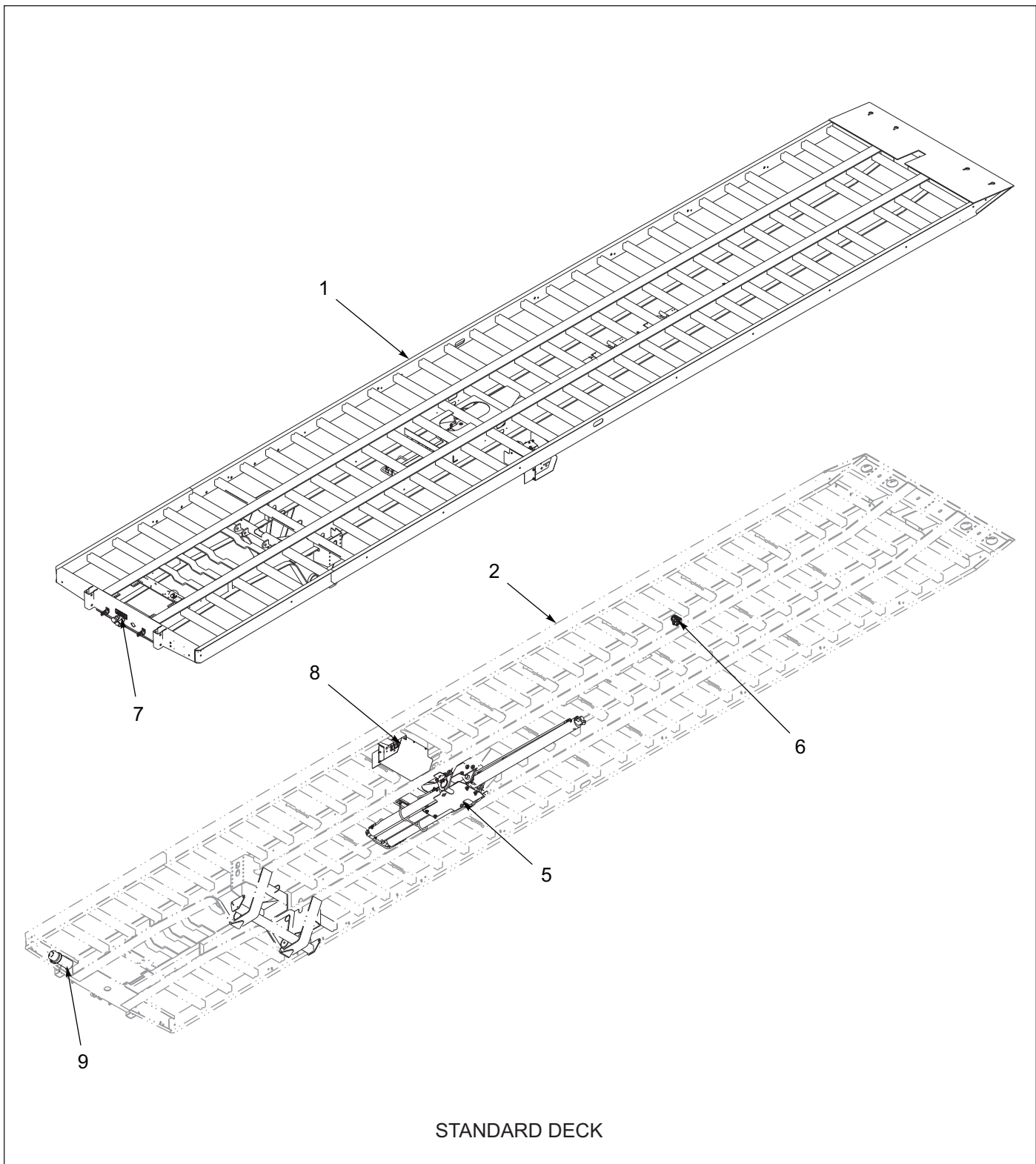
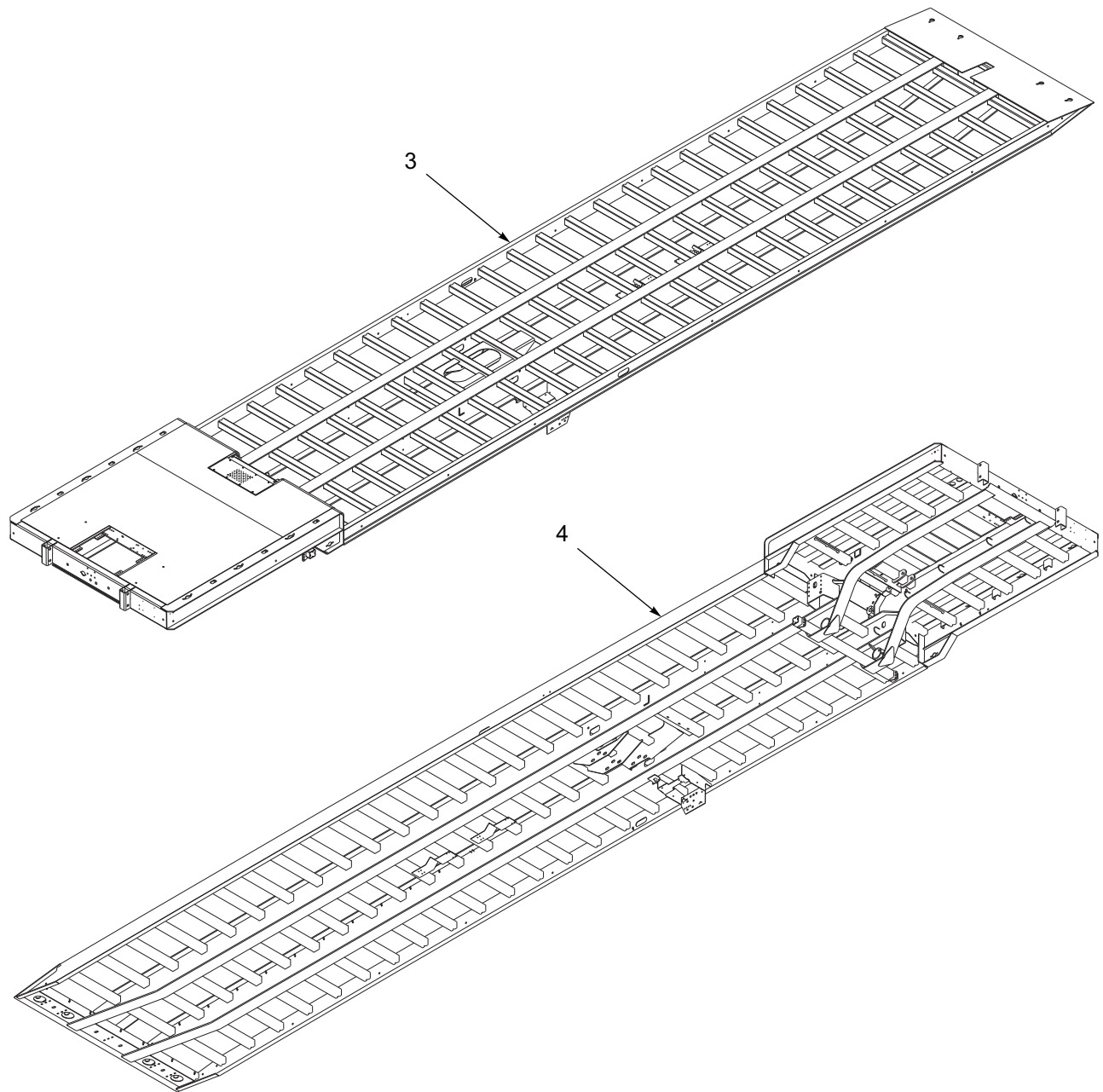


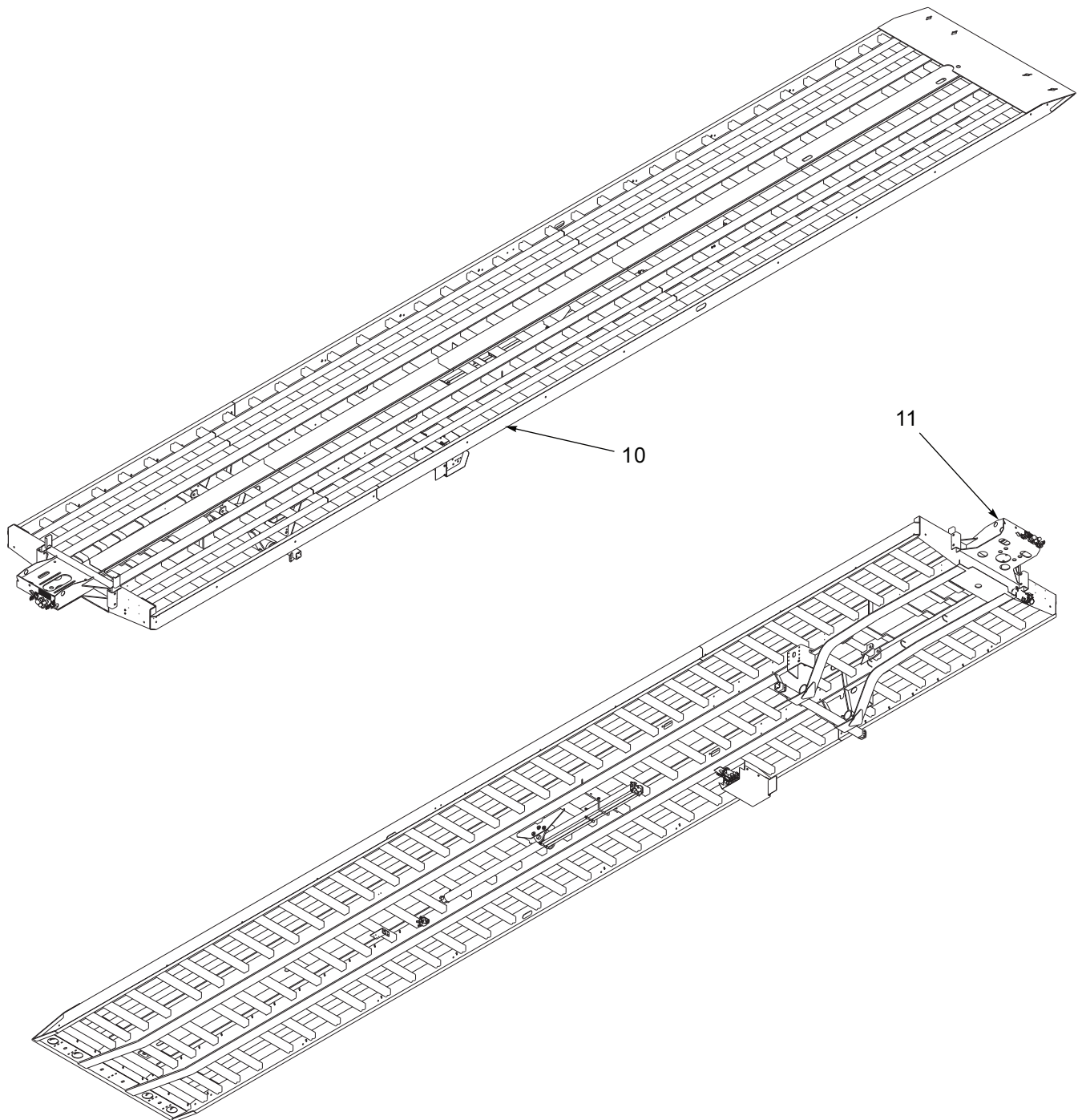
Figure 2-1: Deck Assembly (1 of 3)



DOUBLE DROP DECK

**Figure 2-2: Deck Assembly (2 of 3)**





CHAIN DRIVE

Figure 2-3: Deck Assembly (3 of 3)

## Deck Assembly

| ITEM | PART NUMBER     | DESCRIPTION                                                                                               | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------|------|
| 1    | 199802          | FRAME 330D-1-42-102" W/29" AP (REFERENCE ONLY)                                                            | --   |
| 2    | 213872          | FRAME WLDMT 330D-2-42-102 29AP (REFERENCE ONLY)                                                           | --   |
| 3    | 208006          | FRAME WLDMT 330D-48-102 D/D (REFERENCE ONLY)                                                              | --   |
| 4    | 200445          | FRAME WLDMT 330D-2-53 WINCH (REFERENCE ONLY)                                                              | --   |
| 5    | 3-242-010152-02 | CYL ASSY LOW LOAD ANGLE 330 (HYDRAULIC - SEE PAGE 10-5)                                                   | --   |
| 5    | 3-242-010153    | CYLINDER ASSY,STD LOAD ANGLE<br>(HYDRAULIC - SEE PAGE 10-5)                                               | --   |
| 6    | 141607          | VALVE ASSY AIR BOOSTER (AIR SYSTEM - SEE PAGE 7-1)                                                        | --   |
| 7    | 143163          | CONNECTORS FRONT SUB ASSY (REPAIR - SEE PAGE 10-1)<br>(BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED) | 1    |
| 7    | 238642          | COUPLERS ISO FRONT SUB ASSY (REPAIR - SEE PAGE 10-1)<br>(AFTER 03/01/2022 - REPLACES 143163)              | 1    |
| 8    | 194439          | VALVE REXROTH ASSY 300A (HYDRAULICS - SEE PAGE 10-5)                                                      | --   |
| 9    | 150076          | MANUAL TUBE (4-1/4"ID) (FRAME - SEE PAGE 2-5)                                                             | --   |
| 10   | 200846          | FRAME 330D-2-53W/CHAIN (REFERENCE ONLY)                                                                   | --   |
| 11   | 158039          | GEARBOX ASSY 330-42 (GEARBOX ASSEMBLY - SEE PAGE 11-1)                                                    | --   |

Manual Tube

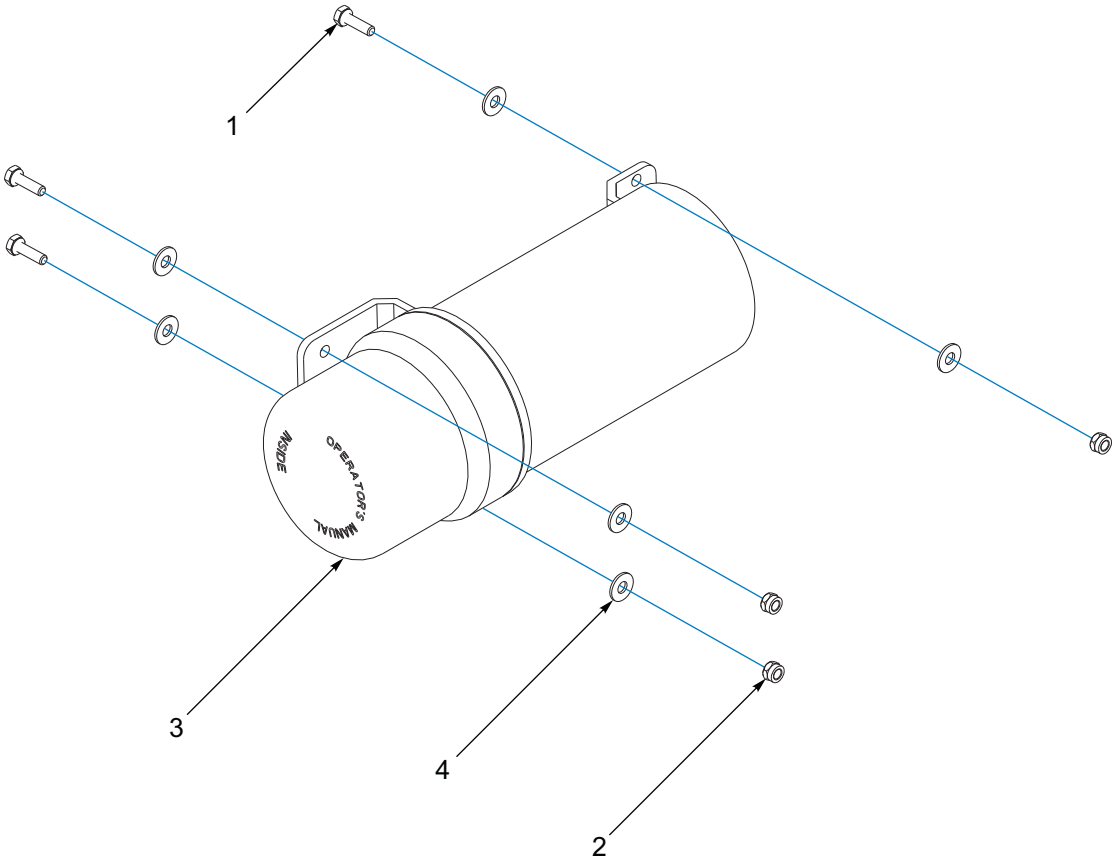


Figure 2-4: Manual Tube

Manual Tube

| ITEM | PART NO.        | DESCRIPTION                    | QTY. |
|------|-----------------|--------------------------------|------|
| 1    | 1-654-010047-05 | SCREW, HX CP 1/4-20UNCx7/8 GR5 | --   |
| 2    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20      | --   |
| 3    | 150076          | MANUAL TUBE (4-1/4"ID)         | --   |
| 4    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP             | --   |

[illegible]

## Fifth Wheel Assembly

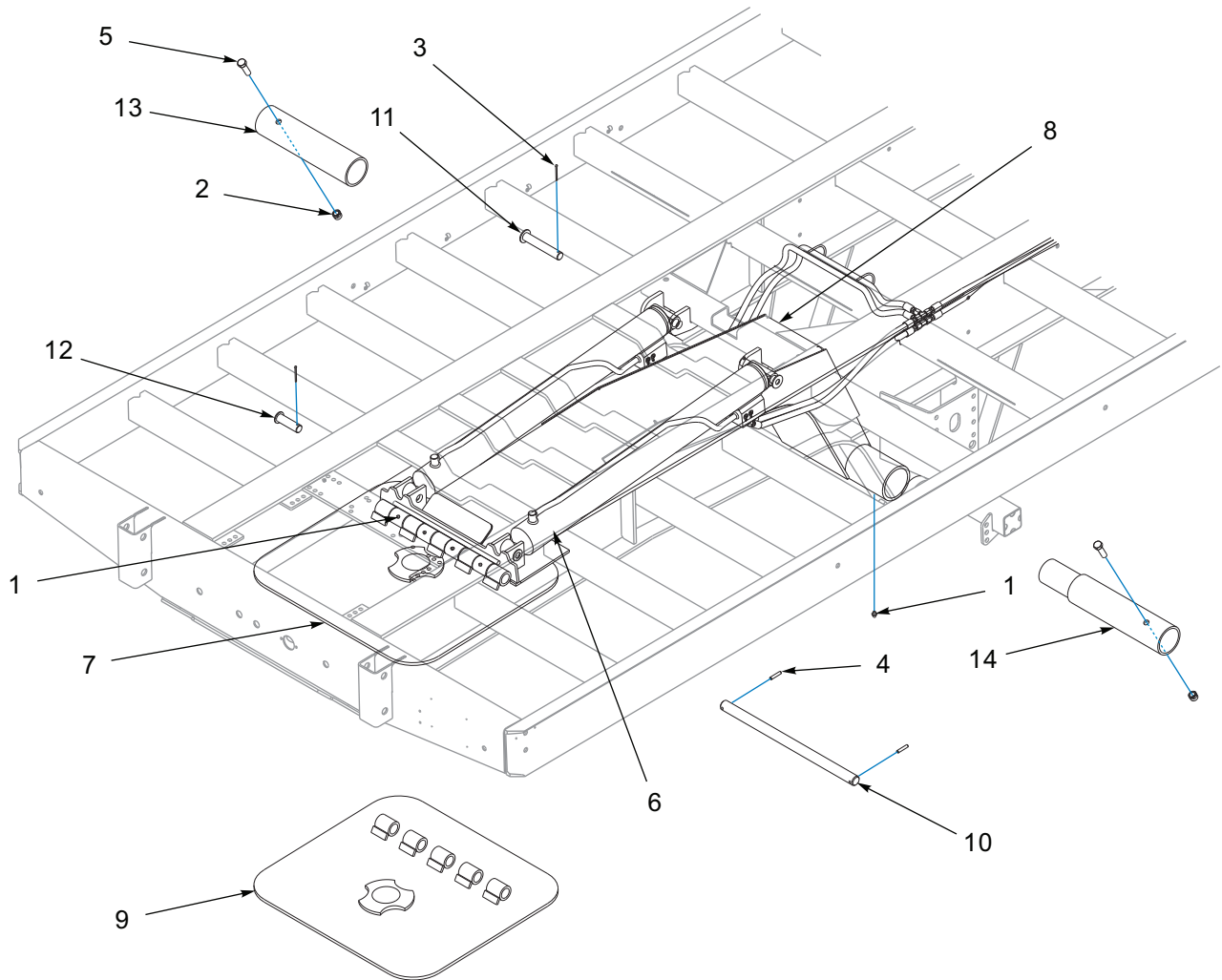


Figure 2-5: Fifth Wheel Assembly

## Fifth Wheel Assembly

| ITEM | PART NO.        | DESCRIPTION                                                   | QTY. |
|------|-----------------|---------------------------------------------------------------|------|
|      | 201067          | HITCH INSTL 30 PIN 330D-42 TRL                                | --   |
|      | 201065          | HITCH INSTL 24 PIN 330D-42 TRL                                | --   |
|      | 208013          | HITCH INSTL 18 PIN 330D-D/D TRL                               | --   |
| 1    | 1-298-010001-1  | ZERK FITTING 1/4 SAE                                          | 6    |
| 2    | 1-512-010005-15 | NUT,HEX,SLFLKG GRB 3/4-10                                     | 2    |
| 3    | 1-557-010362-54 | PIN, COTTER 3/16X2-1/4                                        | 4    |
| 4    | 1-647-010004255 | ROLL PIN, SLTD, 3/8X2                                         | 2    |
| 5    | 1-654-010061-07 | SCREW,HX CP 3/4-10UNCX2-1/2G5                                 | 2    |
| 6    | 200497          | CYLINDER 4X42 W/CB                                            | 2    |
|      |                 | <b>(HYDRAULICS - SEE PAGE 10-3)</b>                           |      |
|      |                 | <b>(COMPONENTS - SEE PAGE 10-12)</b>                          |      |
| 7    | 3-375-010250    | HITCH,PLT,24KP-317A/30KP-318 <b>(FOR 30 PIN, 18 PIN ONLY)</b> | 1    |
| 8    | 3-375-010292    | HITCH WLDMT FIFTH WHL TNDM AXL                                | 1    |
| 9    | 3-375-010349    | HITCH, PLATE, 18" KING PIN <b>(FOR 24 PIN ONLY)</b>           | 1    |
| 10   | 3-557-010030    | HINGE PIN FIFTHWHEEL                                          | 1    |
| 11   | 3-557-010033    | PIN CYL BUTT END                                              | 2    |
| 12   | 3-557-010059    | PIN CYL ROD END                                               | 2    |
| 13   | 3-826-010014    | TUBE,INNER,HINGE FIFTH WHEEL                                  | 1    |
| 14   | 3-826-010015    | TUBE WLDMT INNER FIFTH WHEEL                                  | 1    |

# Undercarriage Assembly

## General Assembly, Single Axle

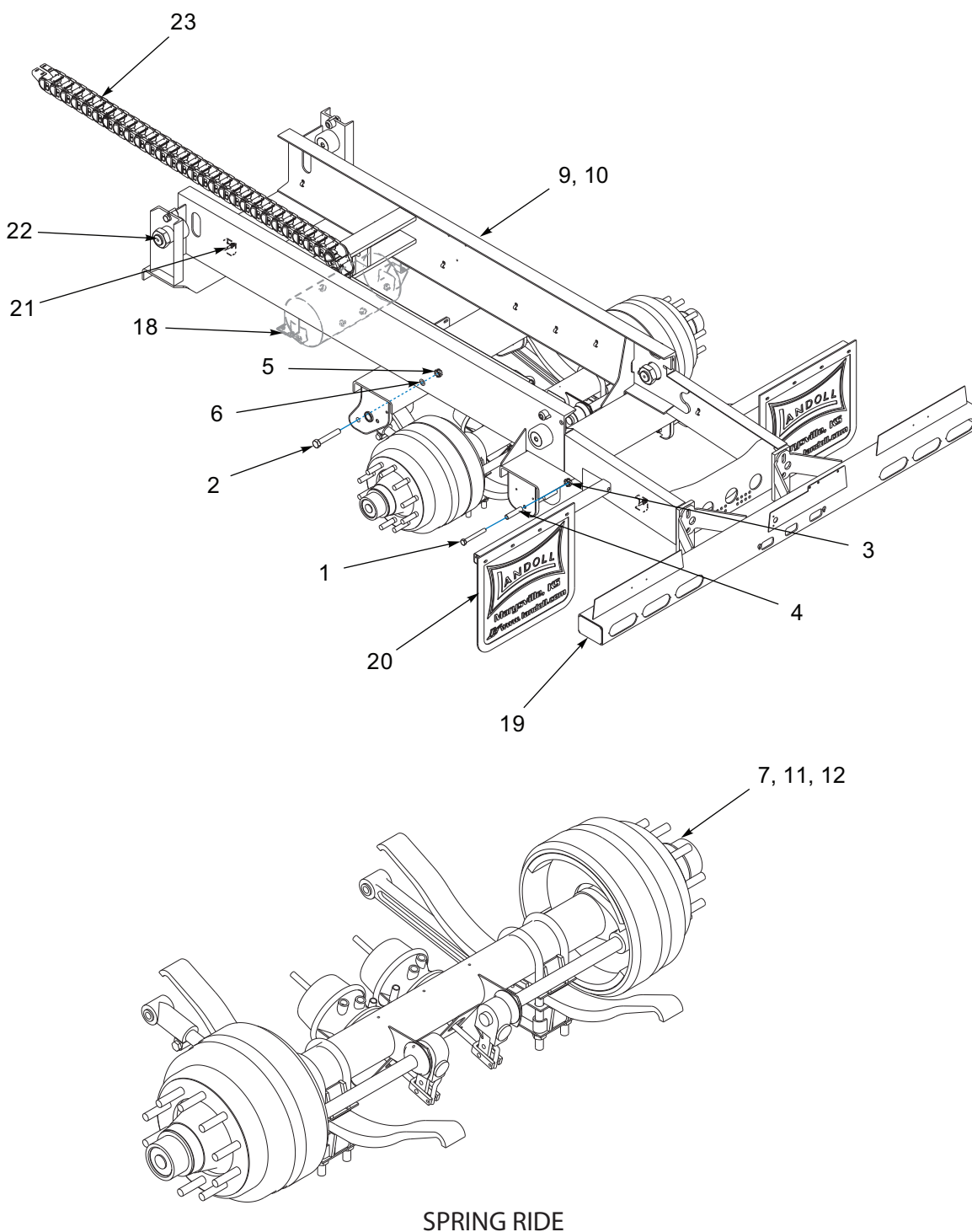


Figure 3-1: General Assembly, Single Axle (1 of 2)

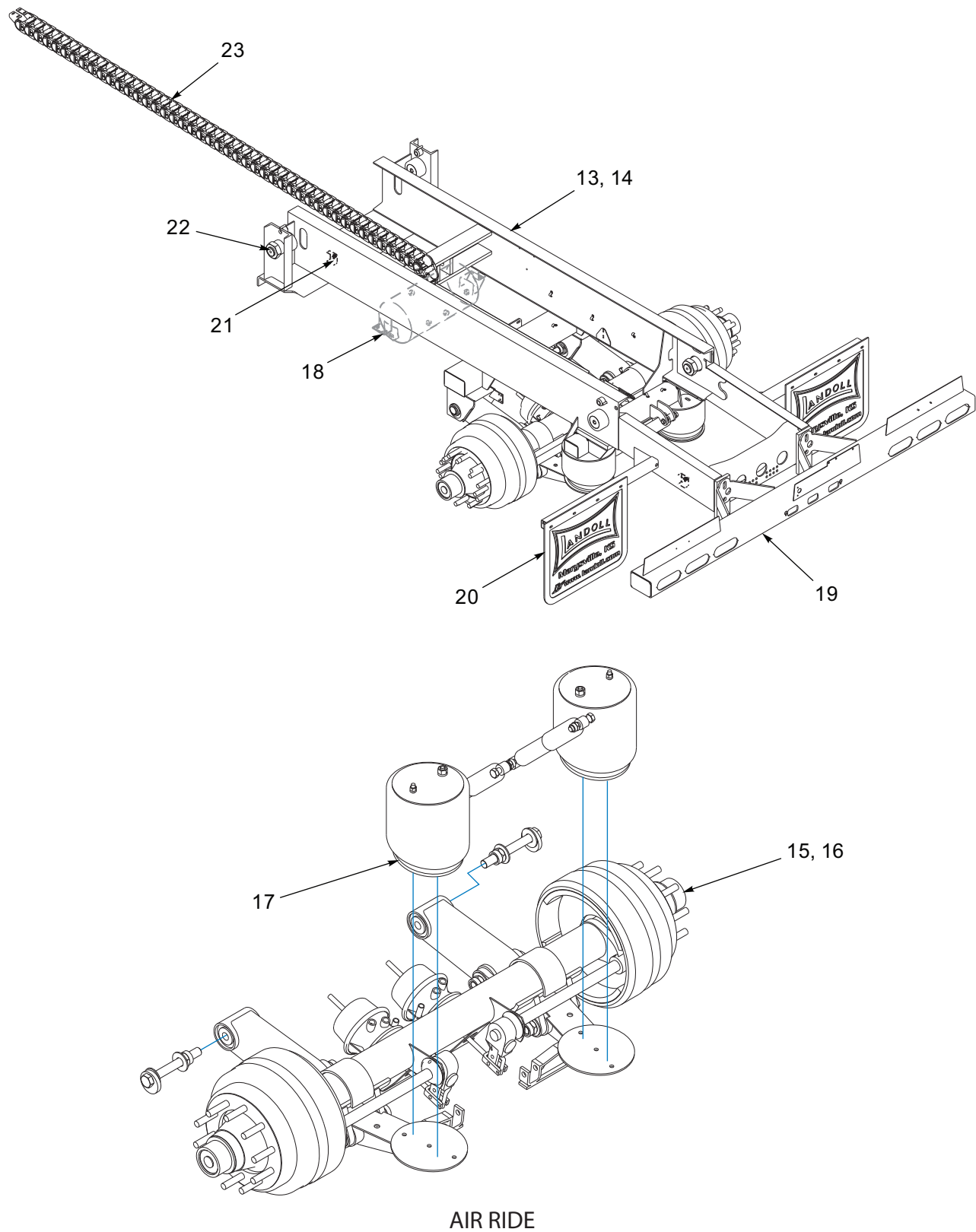


Figure 3-2: General Assembly, Single Axle (2 of 2)



## General Assembly, Single Axle

| ITEM | PART NUMBER  | DESCRIPTION                                | QTY. |
|------|--------------|--------------------------------------------|------|
|      | 201075       | SUSP S/R 330D-1-102 SLA                    | --   |
|      | 201115       | SUSP ASSY A/R 330D-1-102 SLA               | --   |
| 1    | 0001-02      | CAPSCREW,HX HEAD 5/8-18X5-1/8              | 2    |
| 2    | 0001-08      | BOLT 7/8-14X5-1/4                          | 2    |
| 3    | 0002-07      | LOCKNUT HEX CENTER 5/8-18                  | 2    |
| 4    | 0741-01      | SPRING ROLLER EQUALIZER TRANS              | 2    |
| 5    | 110990       | LOCKNUT 7/8-14                             | 2    |
| 6    | 110991       | WASHER FLAT 7/8 HARDENED                   | 2    |
| 7    | 115726       | SUSP ASSY SPRING 317-102 FRT               | --   |
| 8    | 115728       | SUSP ASSY SPRING 330-102 FRT               | --   |
| 9    | 137162       | SUSP WLDMT 330-1 S/R                       | --   |
| 10   | 137163       | SUSP WLDMT 330-1 S/R D/D                   | --   |
| 11   | 167955       | SUSP ASSY SPG 330-102 FRT TIS              | --   |
| 12   | 185887       | SUSP ASSY SPRING 317-102 FRT               | --   |
| 13   | 137164       | SUSP WLDMT 330-1 A/R D/D                   | --   |
| 14   | 137169       | SUSPENSION WLDMT 330-1 A/R                 | --   |
| 15   | 115732       | AXLE WLDMT 2512SPG 70.5X31 TIS             | --   |
| 16   | 115738       | AXLE WLDMT 2516SPG 69X31 TIS               | --   |
| 17   | 102363       | SUSPENSION,ADJ RLU-228-3.5                 | --   |
| 18   | 3-780-010002 | TANK AIR 9.5X22.5 .5NPT PORTS              | 1    |
| 19   | -----        | BUMPER WLDMT 660 TUBE W/EP (SEE PAGE 3-37) | 1    |
| 20   | 3-485-010001 | FLAP, MUD 21 IN                            | 2    |
| 21   | 2-181-010001 | HOSE CLAMP                                 | 10   |
| 22   | 3-076-010005 | CAM FOLLOWER 4 IN DIA                      | 4    |
| 23   | 189314       | SUPPORT, E-CHAIN,48 LINKS,3838             | 1    |

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## General Assembly, Tandem Axle

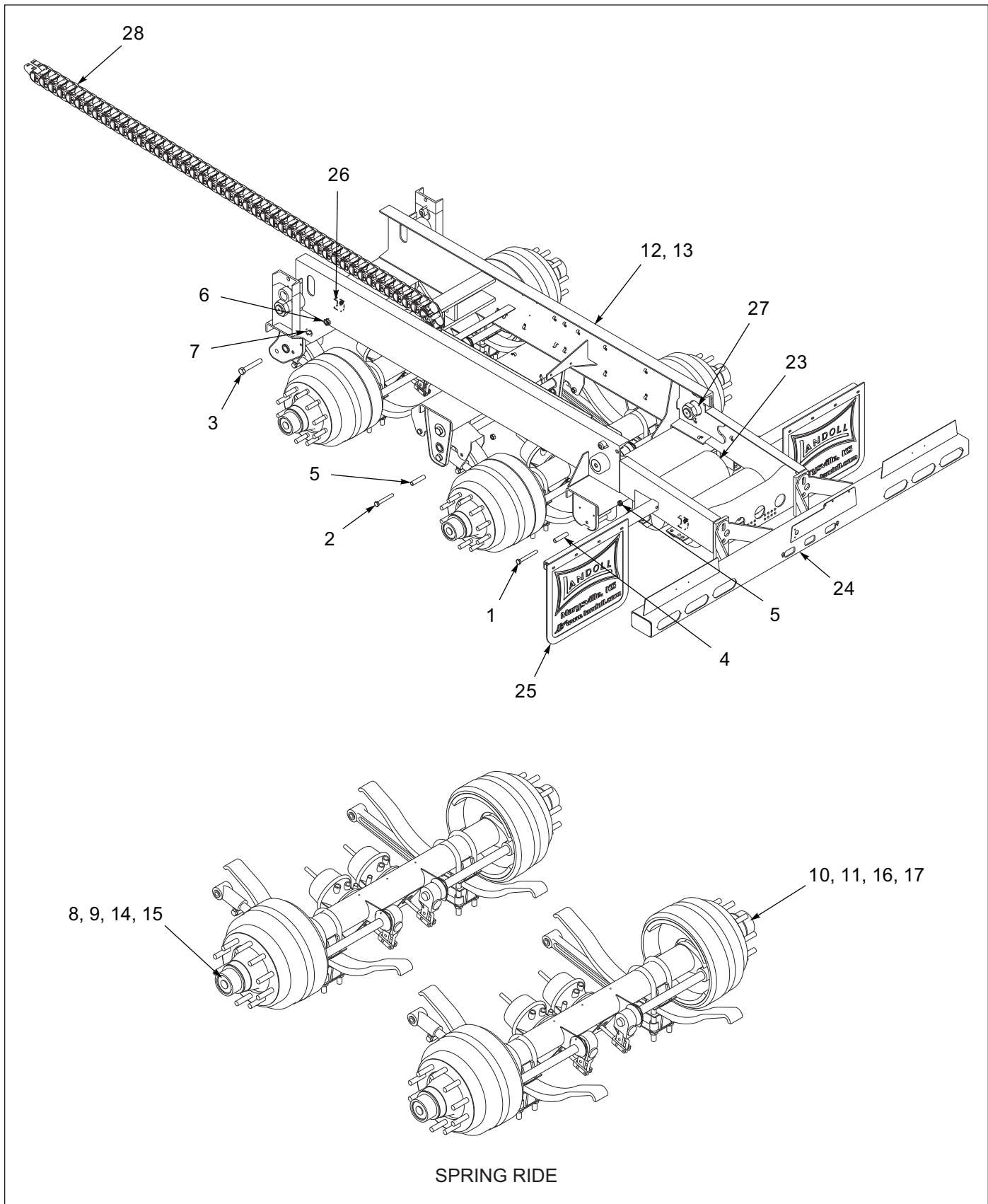


Figure 3-3: General Assembly, Tandem Axle (1 of 2)

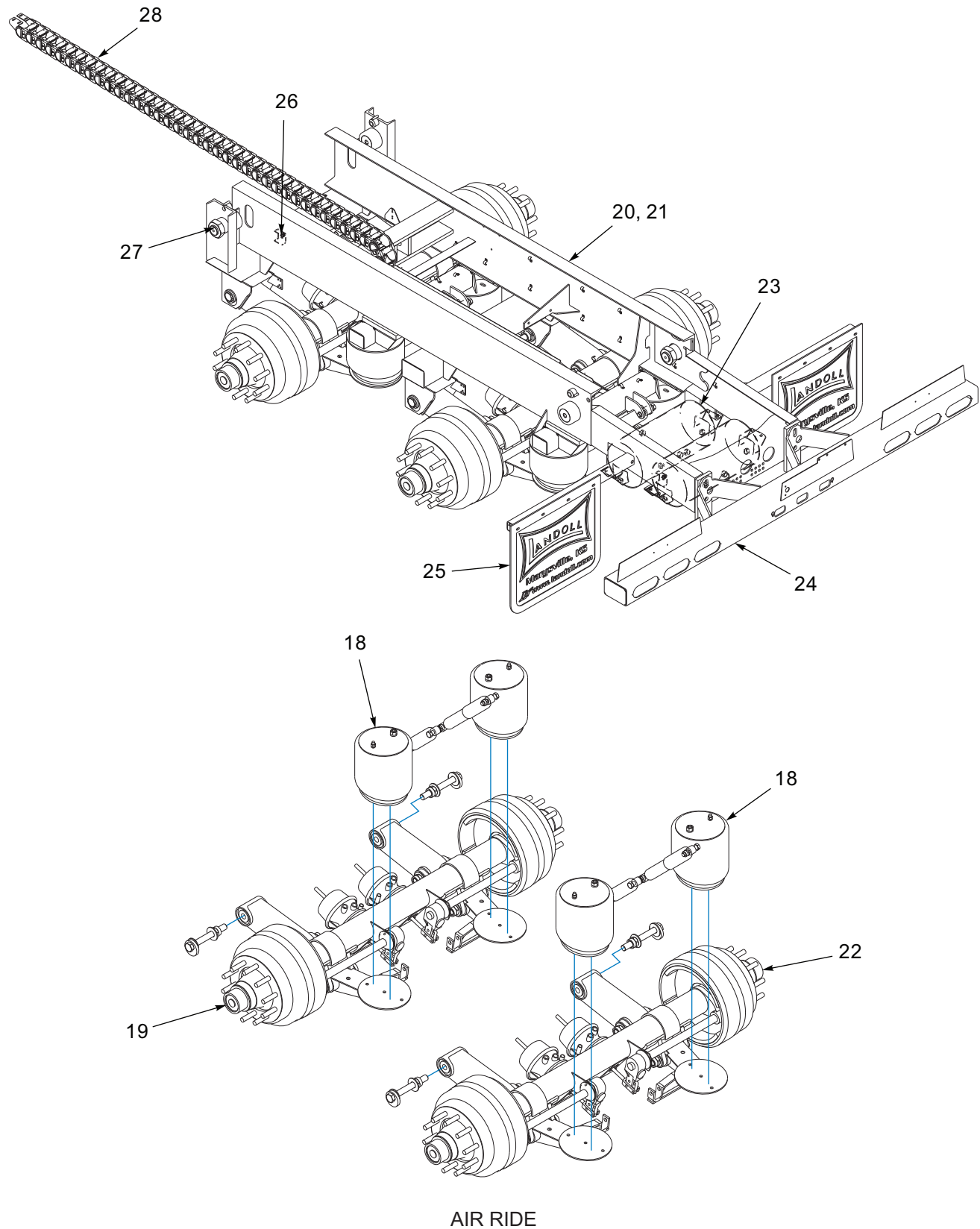


Figure 3-4: General Assembly, Tandem Axle (2 of 2)

## General Assembly, Tandem Axle

| ITEM | PART NUMBER  | DESCRIPTION                                | QTY. |
|------|--------------|--------------------------------------------|------|
|      | 201086       | SUSP ASSY S/R 330D-2-102                   | --   |
|      | 201094       | SUSP ASSY S/R 330D-2-102 SB                | --   |
|      | 201099       | SUSP A/R 330D-2-102 SLA                    | --   |
| 1    | 0001-02      | CAPSCREW,HX HEAD 5/8-18X5-1/8              | 2    |
| 2    | 0001-04      | RETAINER 5/8-18X4-1/2 HEX HD               | 4    |
| 3    | 0001-08      | BOLT 7/8-14X5-1/4                          | 4    |
| 4    | 0002-07      | LOCKNUT HEX CENTER 5/8-18                  | 6    |
| 5    | 0741-01      | SPRING ROLLER EQUALIZER TRANS              | 6    |
| 6    | 110990       | LOCKNUT 7/8-14                             | 4    |
| 7    | 110991       | WASHER FLAT 7/8 HARDENED                   | 4    |
| 8    | 115726       | SUSP ASSY SPRING 317-102 FRT               | --   |
| 9    | 115728       | SUSP ASSY SPRING 330-102 FRT               | --   |
| 10   | 135501       | SUSP ASSY SPRING 317-102REAR               | --   |
| 11   | 135503       | SUSP ASSY SPRING 330-102REAR               | --   |
| 12   | 137168       | SUSP WLDMT 330-2 S/R                       | --   |
| 13   | 137171       | SUSP WLDMT 330-2 S/R D/D                   | --   |
| 14   | 167955       | SUSP ASSY SPG 330-102 FRT TIS              | --   |
| 15   | 185887       | SUSP ASSY SPRING 317-102 FRT               | --   |
| 16   | 186621       | AXLE ASSY SPRG 330-102 REARTIS             | --   |
| 17   | 186622       | AXLE ASSY SPRG 317-102 REARTIS             | --   |
| 18   | 102363       | SUSPENSION,ADJ RLU-228-3.5                 | --   |
| 19   | 115738       | AXLE WLDMT 2516SPG 69X31 TIS               | --   |
| 20   | 137167       | SUSP WLDMT 330-2 A/R                       | --   |
| 21   | 137170       | SUSP WLDMT 330-2 A/R D/D                   | --   |
| 22   | 138205       | AXLE WLDMT 2516 SPG 69 31 TIS              | --   |
| 23   | 3-780-010002 | TANK AIR 9.5X22.5 .5NPT PORTS              | 2    |
| 24   | -----        | BUMPER WLDMT 660 TUBE W/EP (SEE PAGE 3-37) | --   |
| 25   | 3-485-010001 | FLAP, MUD 21 IN                            | 2    |
| 26   | 2-181-010001 | HOSE CLAMP                                 | 2    |
| 27   | 3-076-010005 | CAM FOLLOWER 4 IN DIA                      | 4    |
| 28   | 189314       | SUPPORT, E-CHAIN,48 LINKS,3838             | --   |

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## Axle 12.25 Disc Brakes & Hub Assembly (OPTION)

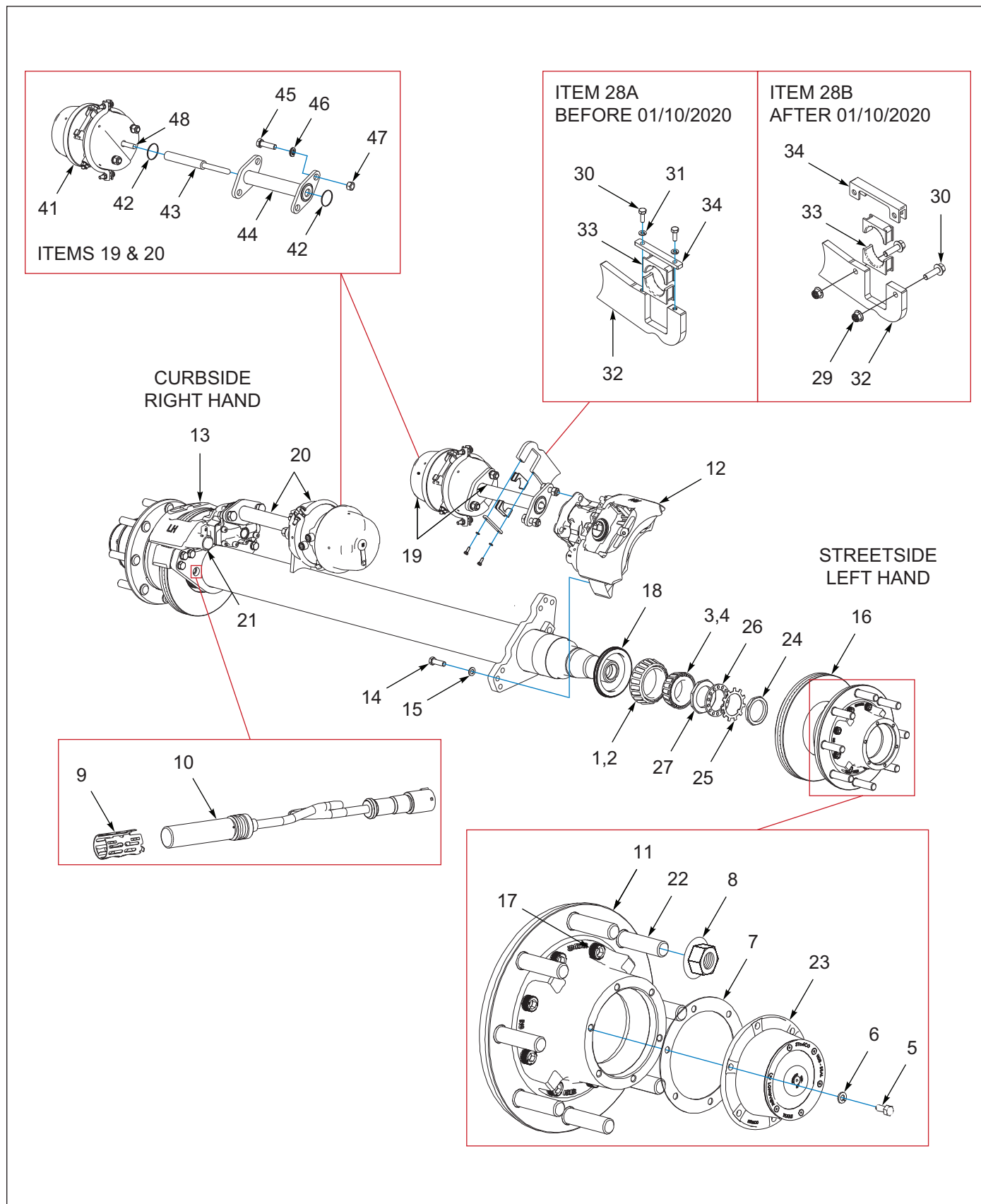
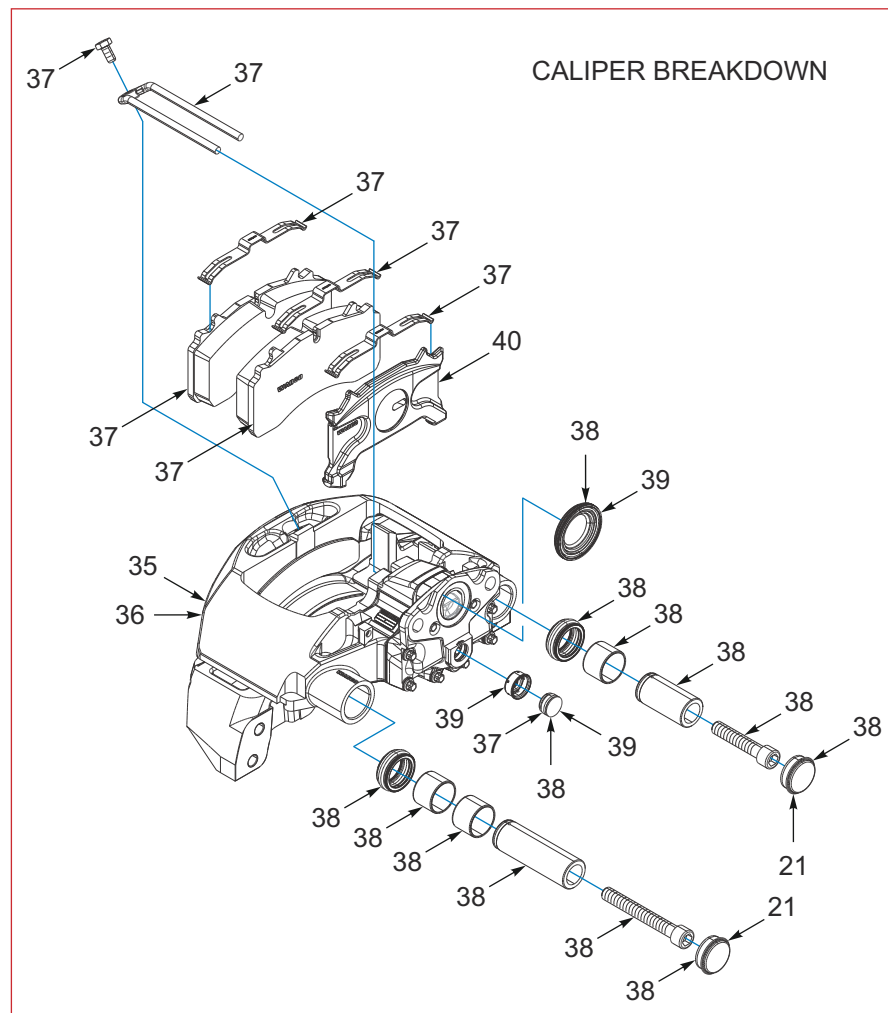


Figure 3-5: Axle 12.25 Disc Brakes & Hub Assembly (OPTION) (1 of 2)



ITEM# 49



ITEM# 50



**Figure 3-6: Axle 12.25 Disc Brakes & Hub Assembly (OPTION) (2 of 2)**



## Axle 12.25 Disc Brakes & Hub Assembly (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                           | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------|------|
|      | 218106          | AXLE 12.25 DSC 70.5 25K TIS (11-1/8")                                                 | - -  |
| 1    | HM218210        | BEARING CUP, INNER-DEXTERD225K (PART OF ITEM 11)                                      | 2    |
| 2    | HM218248        | INNER BEARING                                                                         | 2    |
| 3    | HM212011        | OUTER CUP (PART OF ITEM 11)                                                           | 2    |
| 4    | HM212049        | OUTER BEARING CONE                                                                    | 2    |
| 5    | 1-654-010049-03 | SCREW HX CP 5/16-18UNCX3/4GR5                                                         | 12   |
| 6    | 1-861-010034-10 | WASHER, LKG 5/16                                                                      | 12   |
| 7    | 153402          | GASKET HUB (3067) (PART OF ITEM 23)                                                   | 2    |
| 8    | 179955          | NUT, FLANGE MM22X1.5 (1.50HEX) (179933, 153408)                                       | 16   |
| 9    | 153409          | SPRING CLIP ABS                                                                       | 2    |
| 10   | 220673          | SENSOR ABS STRAIGHT IM CABLE                                                          | 2    |
| 11   | 223993          | HUB DISC PAN17 (NO ROTOR) (INCLUDES ITEMS 1, 3)                                       | 2    |
| 12   | 223994          | CALIPER DISC PAN17 LH (INCLUDES ITEMS 35, 37-40)                                      | 1    |
| 13   | 223997          | CALIPER DISC PAN17 RH (INCLUDES ITEMS 36-40)                                          | 1    |
| 14   | 223995          | BOLT M14-1.5X45MM GR 10.9                                                             | 12   |
| 15   | 223996          | WASHER 14MM SPLIT LOCK                                                                | 12   |
| 16   | 223998          | ROTOR DISC PAN 17.5 (NO HUB)                                                          | 2    |
| 17   | 224002          | BOLT SCHS M14-2X60MM GR 12.9                                                          | 16   |
| 18   | 224003          | SEAL SCOTSEAL F22                                                                     | 2    |
| 19   | 225965          | EXT SHAFT ASSY AIR CHAMBER LH (11-1/8")<br>(19A INCLUDES ITEMS 41-47)                 | 1    |
| 19   | 240587          | EXT SHAFT ASSY LONG LH (14-1/8")<br>(19B INCLUDES ITEMS 41-47)                        | 1    |
| 20   | 225977          | EXT SHAFT ASSY AIR CHAMBER RH (11-1/8")<br>(20A INCLUDES ITEMS 41-47)                 | 1    |
| 20   | 240588          | EXT SHAFT ASSY LONG RH (14-1/8")<br>(20B INCLUDES ITEMS 41-47)                        | 1    |
| 21   | 230657          | SOFT PLUG TIN CALIPER                                                                 | 4    |
| 22   | 232823          | STUD M22X1.5X3.97 DXT DSC BK                                                          | 16   |
| 23   | 4009            | BOLT ON HUB CAP W/PLUG<br>(OIL CAP INCLUDES VENT PLUG AND ITEM 7)                     | 2    |
| 24   | 006-115-00      | NUT OUTER, SPINDLE, DEXTER (153365, 103102-001)                                       | 2    |
| 25   | 105106          | STAR L/W (005-099-00)                                                                 | 2    |
| 26   | 105107          | LOCK WASHER (005-098-00)                                                              | 2    |
| 27   | 103103-002      | NUT INNER SPINDLE DEXTER (006-114-00)                                                 | 2    |
| 28   | 225978          | SUPPORT BLOCK ASSY (BEFORE 01/10/2020 - AFTER<br>OBSOLETE) (28A INCLUDES ITEMS 30-34) | 2    |
| 28   | 231958          | SUPPORT BLOCK EXT SHAFT ASSY (AFTER 01/10/2020)<br>(28B INCLUDES ITEMS 29-30, 32-34)  | 2    |
| 29   | 1-510-010001    | NUT, FLANGE 3/8-16UNC GR5 ZNK (AFTER 01/10/2020)<br>(PART OF ITEMS 28B)               | 4    |
| 30   | 1-654-010051-05 | SCREW, HEX CAP 3/8-16UNCX1 GR5 (BEFORE 01/10/2020)<br>(PART OF ITEM 28A)              | 4    |
| 30   | 1-654-010051-06 | SCREW, HEX CAP 3/8-16UNCX1-1/4 (AFTER 01/10/2020)<br>(PART OF ITEM 28B)               | 4    |
| 31   | 1-861-010034-11 | WASHER, LKG HLCL SPR, 3/8 (BEFORE 01/10/2020)<br>(PART OF ITEM 28A)                   | 4    |
| 32   | -----           | SUPPORT BLOCK (BEFORE 01/10/2020) (PART OF ITEM 28A)                                  | 2    |
| 32   | 223999          | SUPPORT BLOCK (AFTER 01/10/2020) (PART OF ITEM 28B)                                   | 2    |

## Axle 12.25 Disc Brakes & Hub Assembly (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                   | QTY. |
|------|-----------------|-------------------------------------------------------------------------------|------|
| 33   | -----           | SPLIT BUSHING (BEFORE 01/10/2020) (PART OF ITEM 28A)<br>(2 PER SUPPORT BLOCK) | 4    |
| 33   | 224000          | SPLIT BUSHING (AFTER 01/10/2020) (PART OF ITEM 28B)<br>(2 PER SUPPORT BLOCK)  | 4    |
| 34   | -----           | SUPPORT CAP (BEFORE 01/10/2020) (PART OF ITEM 28A)                            | 2    |
| 34   | 224001          | SUPPORT CAP (AFTER 01/10/2020) (PART OF ITEM 28B)                             | 2    |
| 35   | 236534          | CALIPER DISC PAN17 LH NO PADS (PART OF ITEM 12)                               | 1    |
| 36   | 236535          | CALIPER DISC PAN17 RH NO PADS (PART OF ITEM 13)                               | 1    |
| 37   | 224005          | PAD KIT PAN17 DISC BRAKE 1 AX (1 KIT PER AXLE)<br>(PART OF ITEMS 12, 13)      | 1    |
| 38   | 236536          | GUIDE BOLT & SEAL KIT PAN 17 (PER CALIPER)<br>(PART OF ITEMS 12, 13)          | 1    |
| 39   | 236537          | SEAL KIT CLAMPING UNIT (PER CALIPER) (PART OF ITEM 12)                        | 1    |
| 40   | 236538          | PRESSURE PLT DSCBKCALIPR PAN17 (PER CALIPER)<br>(PART OF ITEMS 12, 13)        | 1    |
| 41   | 238558          | AIR CHAMBER PAN 17 DSC BK (PART OF ITEMS 19 & 20)                             | 2    |
| 42   | 238559          | O-RING 1-7/8"IDX2-1/8"ODX.139" (PART OF ITEMS 19 & 20)                        | 2    |
| 43   | 238560          | SHAFT CHAMBER EXTENSION 11-1/8" (PART OF ITEMS 19A & 20A)                     | 2    |
| 43   | 242701          | SHAFT CHAMBR EXTENSION 14-1/8" (PART OF ITEMS 19B & 20B)                      | 2    |
| 44   | 238562          | EXTENSION TUBE WLDMT 11-1/8" (PART OF ITEMS 19A & 20A)                        | 2    |
| 44   | 242700          | EXTENSION TUBE WLMT 14-1/8" (PART OF ITEMS 19B & 20B)                         | 2    |
| 45   | 238563          | SCREW 5/8-12 X 2" UNF (PART OF ITEMS 19 & 20)                                 | 2    |
| 46   | 1-861-010034-15 | WASHER,LKG,HLCL SPR,5/8 (PART OF ITEMS 19 & 20)                               | 2    |
| 47   | 238564          | NUT JAM 5/8-18 UNF GR8 (PART OF ITEMS 19 & 20)                                | 2    |
| 48   | #242 LOCKTITE   | LOCKTITE 242 BLUE REMOVABLE(50ML BOTTLE) (NOT SHOWN)                          | 1    |
| 49   | 236504          | TOOL KIT PAN 17/19/22 BASIC                                                   | 1    |
| 50   | 225964          | TOOL KIT WABCO PAN17 DISC                                                     | 1    |

## Axle 12.25 x 7.5 Drum Brakes

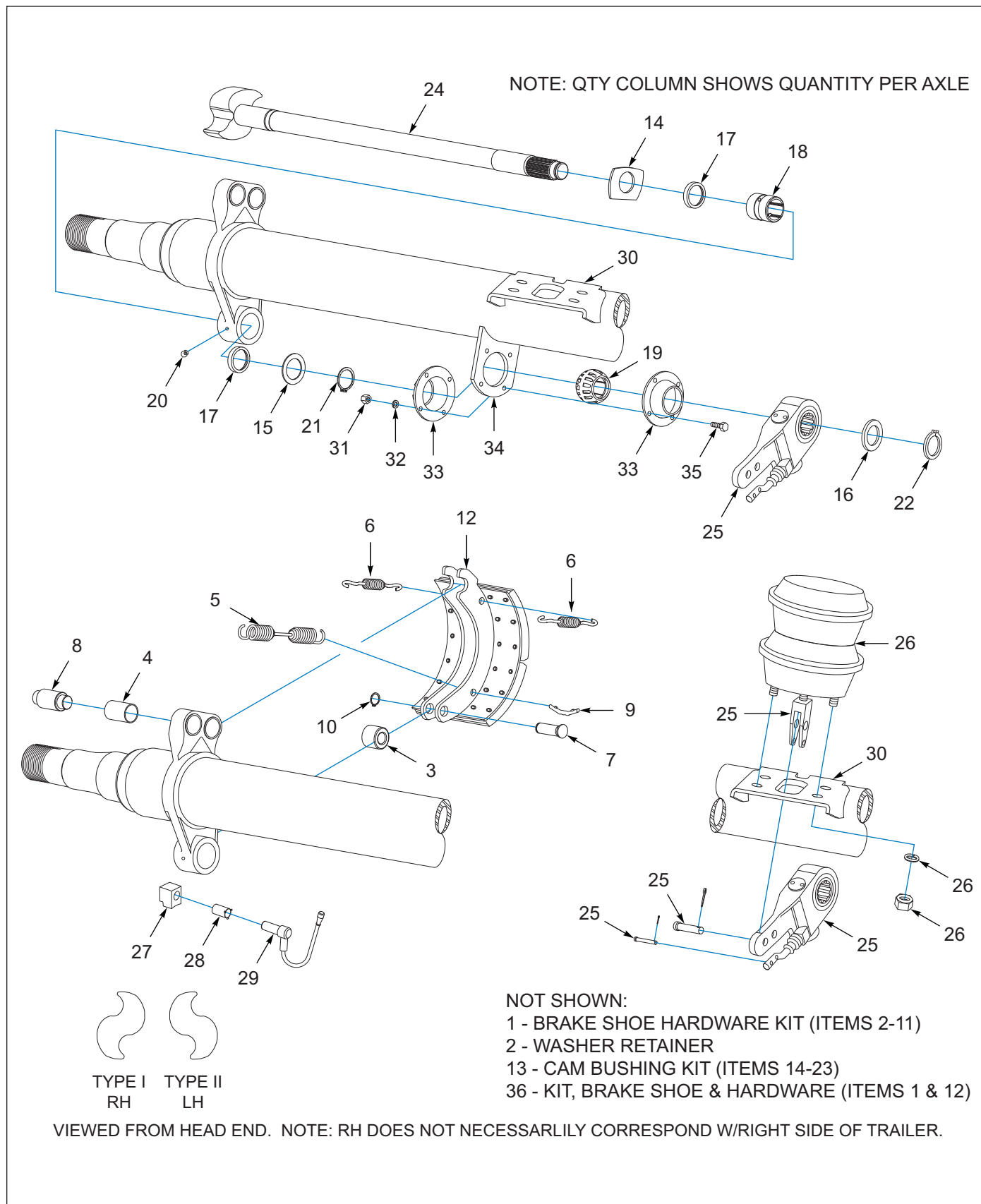


Figure 3-7: Axle 12.25 x 7.5 Drum Brakes

## Axle 12.25 x 7.5 Drum Brakes

| ITEM | PART NO.        | DESCRIPTION                                                                              | QTY. |
|------|-----------------|------------------------------------------------------------------------------------------|------|
|      | 212378          | AXLE 70.5 12.25SPG 25K TIS<br>(REPLACED 115703 AFTER 06/16/2018)                         | --   |
| 1    | K71-460-00      | BRAKESHOE HDW KIT PQ BRKS DEX (INCLUDES ITEMS 2-11)<br>(INCLUDED WITH ITEM 36)           | 2    |
| 2    | 403149          | WASHER RETAINER (NOT SHOWN) (ITEM 1 INCLUDES 2 EACH)                                     | 4    |
| 3    | 204108-001      | ROLLER (014-057-00) (ITEM 1 INCLUDES 2 EACH)                                             | 4    |
| 4    | 014-068-00      | BUSHING-SPIDER ANCHOR PIN DXTR (ITEM 1 INCLUDES 2 EACH)                                  | 4    |
| 5    | 208106          | SPRING BRAKE RETRACT (ITEM 1 INCLUDES 1 EACH)                                            | 2    |
| 6    | 046-097-00      | SPRING-BRAKE SHOE KEEPER DEXTR<br>(ITEM 1 INCLUDES 2 EACH)                               | 4    |
| 7    | 205107-001      | BRAKE SHOE PIN STANDARD (ITEM 1 INCLUDES 2 EACH)                                         | 4    |
| 8    | 056-017-00      | ANCHOR PIN-BRAKE SHOE DEXTER (ITEM 1 INCLUDES 2 EACH)                                    | 4    |
| 9    | 056-018-00      | RETAINER-RETRACTOR SPRING DXTR<br>(ITEM 1 INCLUDES 2 EACH)                               | 4    |
| 10   | 214102          | ROLLER RETAINER (ITEM 1 INCLUDES 2 EACH)                                                 | 4    |
| 11   | -----           | INSTRUCTION SHEET (NOT SHOWN) (ITEM 1 INCLUDES 1 EACH)                                   | 1    |
| 12   | -----           | SHOE LINING QUICK CHG ASSY (INCLUDED WITH ITEM 36)                                       | 4    |
| 13   | K71-101-00      | CAM SHAFT REPAIR KIT PQ BRAKES (1 KIT PER BRAKE)<br>(INCLUDES ITEMS 14-23)               | 2    |
| 14   | 005-074-00      | WASHER D-CAM DEXTER (ITEM 13 INCLUDES 1 EACH)                                            | 2    |
| 15   | 403149          | WASHER RETAINER (ITEM 13 INCLUDES 2 EACH)                                                | 2    |
| 16   | 113819          | CAMSHAFT WASHER 28 SPLINE (ITEM 13 INCLUDES 1 EACH)                                      | 2    |
| 17   | 408101-001      | SPIDER SEALR (ITEM 13 INCLUDES 2 EACH)                                                   | 4    |
| 18   | 405129          | SPIDER BUSHING (ITEM 13 INCLUDES 1 EACH)                                                 | 2    |
| 19   | 405999-001      | NYLON BUSHING CAM BRKT ASSY (ITEM 13 INCLUDES 1 EACH)                                    | 2    |
| 20   | 061-003-00      | GREASE FITTING-SPIDER DEXTER (ITEM 13 INCLUDES 1 EACH)                                   | 2    |
| 21   | 214104          | CAM LOCK RING (ITEM 13 INCLUDES 2 EACH)                                                  | 2    |
| 22   | 069-078-00      | SNAP RING ITEM 13 INCLUDES 1 EACH)                                                       | 2    |
| 23   | -----           | INSTRUCTION SHEET (NOT SHOWN) (ITEM 13 INCLUDES 1 EACH)                                  | 1    |
| 24   | 034-188-03      | CAMSHAFT LH 28SPLINE 22-5/16                                                             | 1    |
| 24   | 034-189-03      | CAMSHAFT RH 28SPLINE 22-5/16                                                             | 1    |
| 25   | 127777          | SLACK ADJ AUTO 12-1/4X7-1/2<br>(INCLUDES CLEVIS, PINS, GAGE & INSTRUCTIONS)              | 2    |
| 26   | 138719          | SPRING BRAKE TYPE 30/30                                                                  | 2    |
| 27   | 103805          | ABS SENSOR BLOCK                                                                         | 2    |
| 28   | 144979          | ABS SENSOR RETAINER CLIP                                                                 | 2    |
| 29   | 101847          | ABS SENSOR CABLE-.4M (1FT) (SENSOR & CABLE ASSEMBLY)                                     | 2    |
| 30   | 034-048-00      | BRACKET AIR CHAMBER MTG                                                                  | 2    |
| 31   | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                                                                   | 8    |
| 32   | 005-079-00      | LOCK WASHER, DEXTER                                                                      | 8    |
| 33   | 034-032-00      | RETAINING PLATE-CAMSHAFT DEXTR<br>(EACH HALF SOLD SEPERATELY)                            | 4    |
| 34   | 034-031-00      | BRACKET ASSY-CAMSHAFT SUPT                                                               | 2    |
| 35   | 007-139-00      | BOLT RET CAM BUSHING DEXTER                                                              | 8    |
| 36   | 138054          | KIT,BRAKE, 12 1/4X7 1/2 (1 KIT PER AXLE)<br>(INCLUDES ITEMS 1, 2 EACH & ITEM 12, 4 EACH) | 1    |

## Axle 12.25 x 7.5 Drum & Hub Assembly

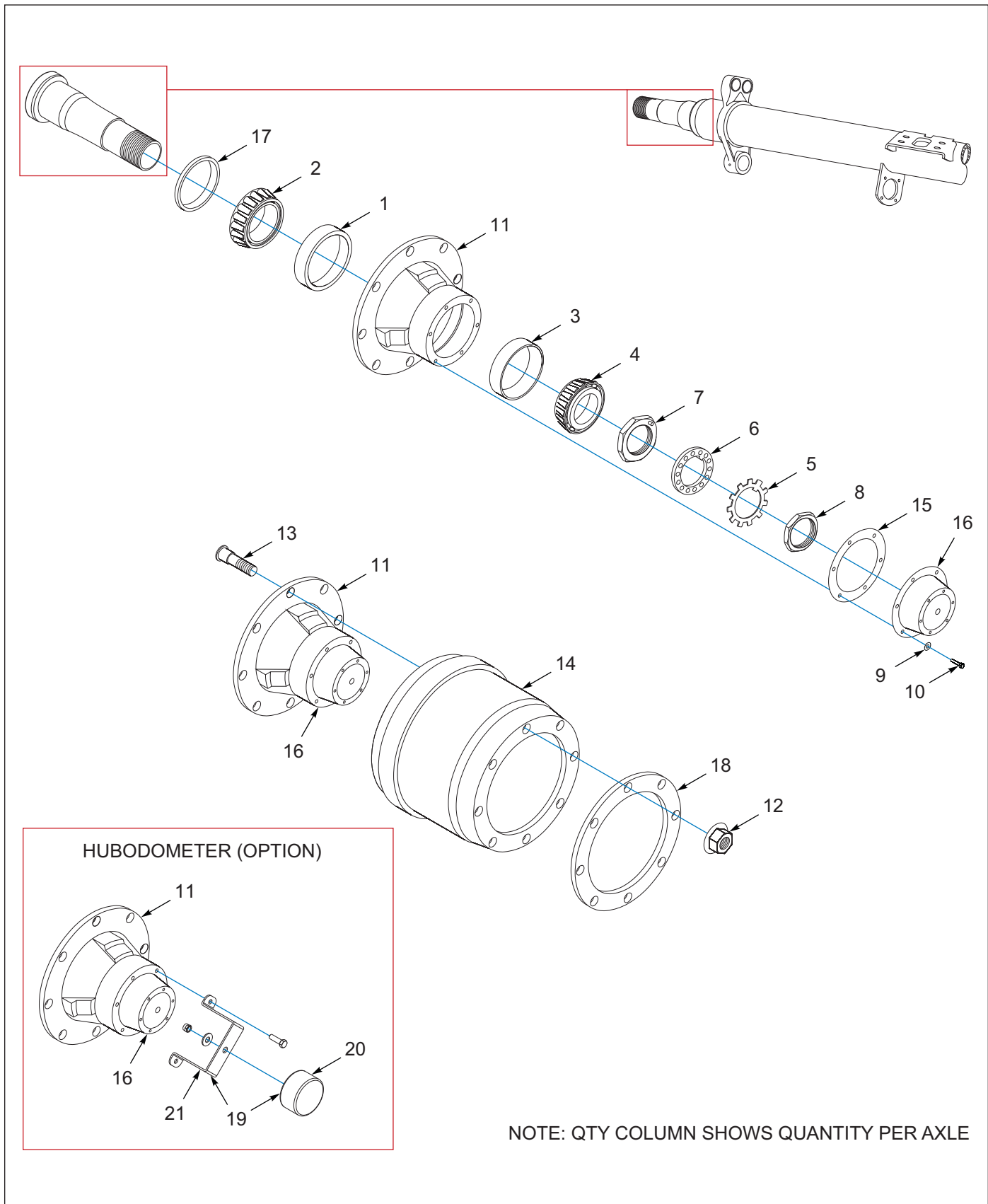


Figure 3-8: Axle 12.25 x 7.5 Drum & Hub Assembly

## Axle 12.25 x 7.5 Drum & Hub Assembly

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                               | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 212378          | AXLE 70.5 12.25SPG 25K TIS                                                                                                                | - - |
| 1    | HM218210        | BEARING CUP,INNER-DEXTERD225K (ITEM 11 INCLUDES 1 EACH)                                                                                   | 2   |
| 2    | HM218248        | INNER BEARING                                                                                                                             | 2   |
| 3    | HM212011        | OUTER CUP (ITEM 11 INCLUDES 1 EACH)                                                                                                       | 2   |
| 4    | HM212049        | OUTER BRG A19S                                                                                                                            | 2   |
| 5    | 105106          | STAR L/W (005-099-00)                                                                                                                     | 2   |
| 6    | 105107          | LOCK WASHER (005-098-00)                                                                                                                  | 2   |
| 7    | 103103-002      | NUT INNER SPINDLE DEXTER (006-114-00)                                                                                                     | 2   |
| 8    | 006-115-00      | NUT OUTER, SPINDLE, DEXTER (103102-001)                                                                                                   | 2   |
| 9    | 1-861-010034-10 | WASHER,LKG 5/16                                                                                                                           | 12  |
| 10   | 1-654-010049-03 | SCREW HX CP 5/16-18UNCX3/4GR5                                                                                                             | 12  |
| 11   | 112492          | HUB 8 BOLT ABS 100 TOOTH (INCLUDES TONE RING)<br>(INCLUDES ITEMS 1, 3, 13)                                                                | 2   |
| 12   | 179955          | NUT,FLANGE MM22X1.5 (1.50HEX) (179933, 153408)                                                                                            | 16  |
| 13   | 101162          | STUD - DISC PILOT HOLE WHL (2.47 STANDOUT)<br>(BEFORE 06/16/2018)                                                                         | 16  |
| 13   | 113536          | STUD RH 22MM 3.5 STANDOUT (131069) (3.5 STANDOUT)<br>(AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS)<br>(ITEM 11 INCLUDES 8 EACH) | 16  |
| 14   | 63680           | DRUM, BRAKE                                                                                                                               | 2   |
| 15   | 3067            | GASKET HUB (153402)                                                                                                                       | 2   |
| 16   | 4009            | BOLT ON HUB CAP W/PLUG<br>(OIL CAP INCLUDES VENT PLUG AND ITEM 15, 1 EACH)                                                                | 2   |
| 17   | 3-659-010012    | SEAL, AXLE                                                                                                                                | 2   |
| 18   | 114619          | WHEEL GUARD 8 HOLE 275MM BC (USED ONLY TO SEPARATE<br>STEEL RIM OR DRUM FROM ALUMINUM RIM)                                                | 2   |
| 19   | 142550          | HUBODOMETER INSTALL 235/17.5 (650RPM)<br>(OPTION INCLUDES ITEMS 20, 21)                                                                   | 1   |
| 20   | 142547          | HUBODOMETER 650 RPM (OPTION)                                                                                                              | 1   |
| 21   | 197606          | BRACKET HUBODOMETER 4"H TIS (OPTION)                                                                                                      | 1   |

## Axle 16.5 Disc Brakes & Hub Assembly (OPTION)

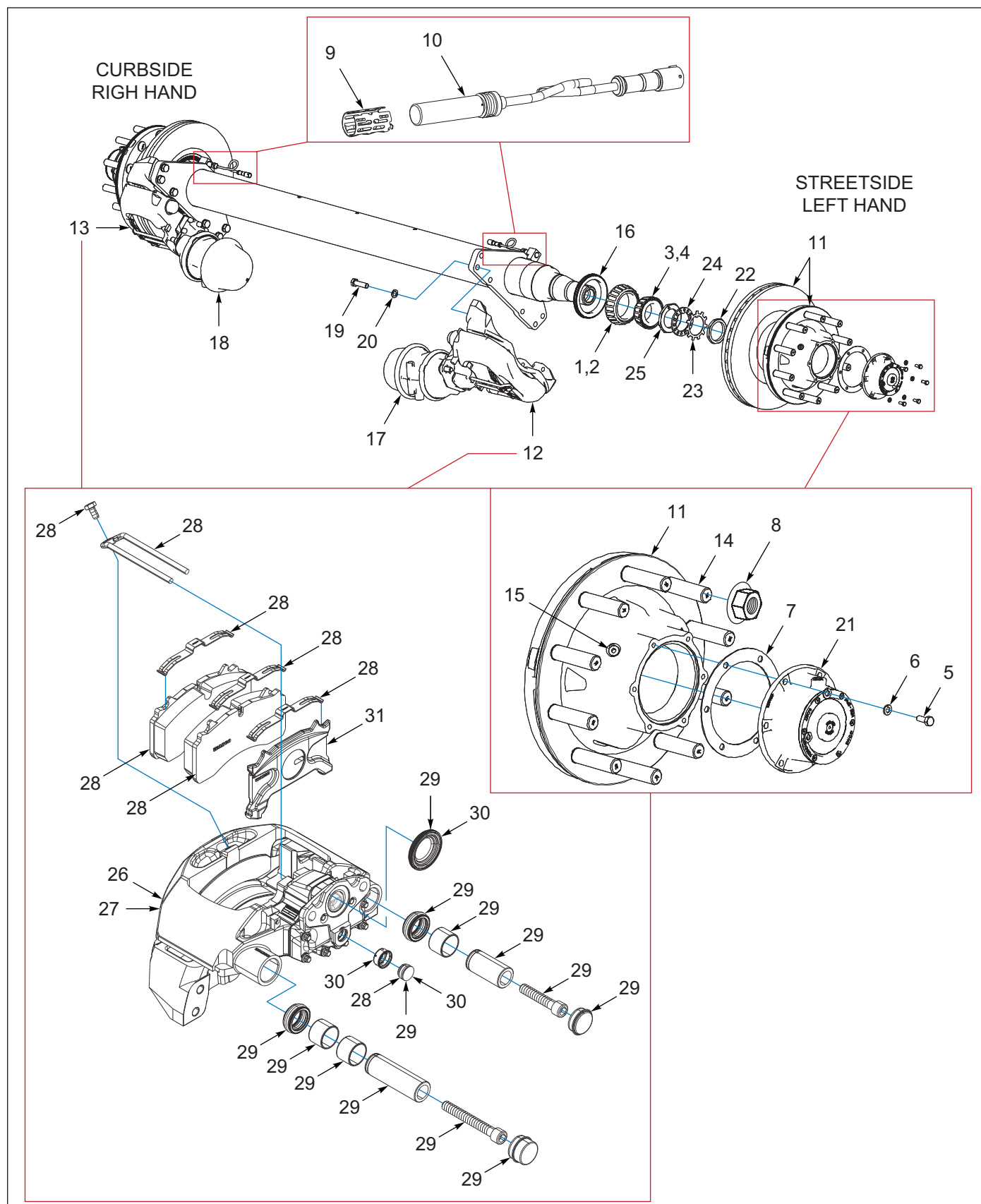


Figure 3-9: Axle 16.5 Disc Brakes & Hub Assembly (OPTION) (1 of 2)



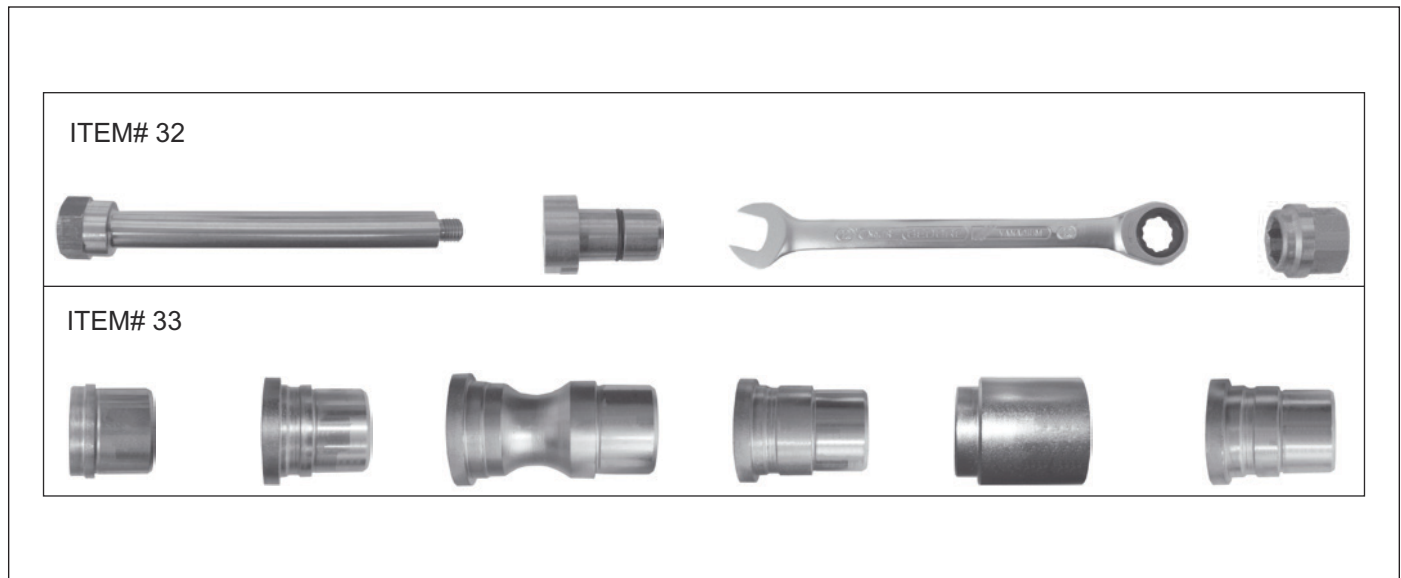


Figure 3-10: Axle 16.5 Disc Brakes &amp; Hub Assembly (OPTION) (2 of 2)

## Axle 16.5 Disc Brakes & Hub Assembly (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                          | QTY |
|------|-----------------|----------------------------------------------------------------------|-----|
|      | 228027          | AXLE 69 PAN 22 DISC 25K TIS                                          | --  |
| 1    | HM218210        | BEARING CUP, INNER-DEXTERD225K                                       | 2   |
| 2    | HM218248        | INNER BEARING                                                        | 2   |
| 3    | HM212011        | OUTER CUP                                                            | 2   |
| 4    | HM212049        | OUTER BEARING CONE                                                   | 2   |
| 5    | 1-654-010049-03 | SCREW HX CP 5/16-18UNCX3/4GR5                                        | 12  |
| 6    | 1-861-010034-10 | WASHER, LKG 5/16                                                     | 12  |
| 7    | 153402          | GASKET F22 (3067)                                                    | 2   |
| 8    | 153408          | NUT, FLANGE M22 X 1.5 (179955, 179933)                               | 20  |
| 9    | 153409          | SPRING CLIP ABS                                                      | 2   |
| 10   | 220673          | SENSOR ABS STRAIGHT IM CABLE                                         | 2   |
| 11   | 235222          | HUB/ROTOR ASSY PAN22 DSC<br>(ROTOR & MOUNT BOLTS ONLY, ORDER 236496) | 2   |
| 12   | 236498          | CALIPER PAN22 LH ADB (INCLUDES ITEMS 29, 31-34)                      | 1   |
| 13   | 236499          | CALIPER RAN22 RH ADB (INCLUDES 30-34)                                | 1   |
| 14   | 236497          | STUD M22 X 1.5 X 4.79"                                               | 20  |
| 15   | 224002          | BOLT SCHS M14-2X60MM FR 12.9                                         | 2   |
| 16   | 224003          | SEAL SCOTSEAL F22 (46305)                                            | 2   |
| 17   | 236475          | BRAKE CHAMBER LH DXT 16.5 DSC (INCLUDES MOUNT NUTS)                  | 1   |
| 18   | 236476          | BRAKE CHAMBER RH DXT 16.5 DSC (INCLUDES MOUNT NUTS)                  | 1   |
| 19   | 236500          | BOLT HHCS M16-1.5X55MM GR10.9                                        | 12  |
| 20   | 236501          | LOCK WASHER 16MM SPLIT                                               | 12  |
| 21   | 4009            | HUB CAP VENTED (153403)<br>(OIL CAP INCLUDES VENT PLUG AND ITEM 7)   | 2   |
| 22   | 006-115-00      | SPINDLE NUT OUTER (006-115-00, 153365)                               | 2   |
| 23   | 105106          | STAR WASHER (153368, 005-098-00)                                     | 2   |
| 24   | 153366          | SPINDLE WASHER (105107, 005-098-00)                                  | 2   |
| 25   | 103103-002      | SPINDLE NUT INNER (153367, 006-114-00)                               | 2   |
| 26   | 238554          | CALIPER DISC PAN22 LH NO PADS                                        | 1   |
| 27   | 238555          | CALIPER DISC PAN22 RH NO PADS                                        | 1   |



---

## Axle 16.5 Disc Brakes & Hub Assembly (OPTION)

| ITEM | PART NUMBER | DESCRIPTION                                  | QTY |
|------|-------------|----------------------------------------------|-----|
| 28   | 235221      | PAD KIT PAN22 DSC 1AX (1 KIT PER AXLE)       | 1   |
| 29   | 238556      | GUIDE BOLT & SEAL KIT PAN22 (PER CALIPER)    | 1   |
| 30   | 236537      | SEAL KIT CLAMPING UNIT (PER CALIPER)         | 1   |
| 31   | 238557      | 'PRESSURE PLT DSCBKCALIPRPAN22 (PER CALIPER) | 1   |
| 32   | 236504      | TOOL KIT PAN 17/19/22 BASIC                  | 1   |
| 33   | 236503      | TOOL KIT PAN19/22 ADDITIONAL                 | 1   |

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## Axle 16.5 x 7 Drum Brakes

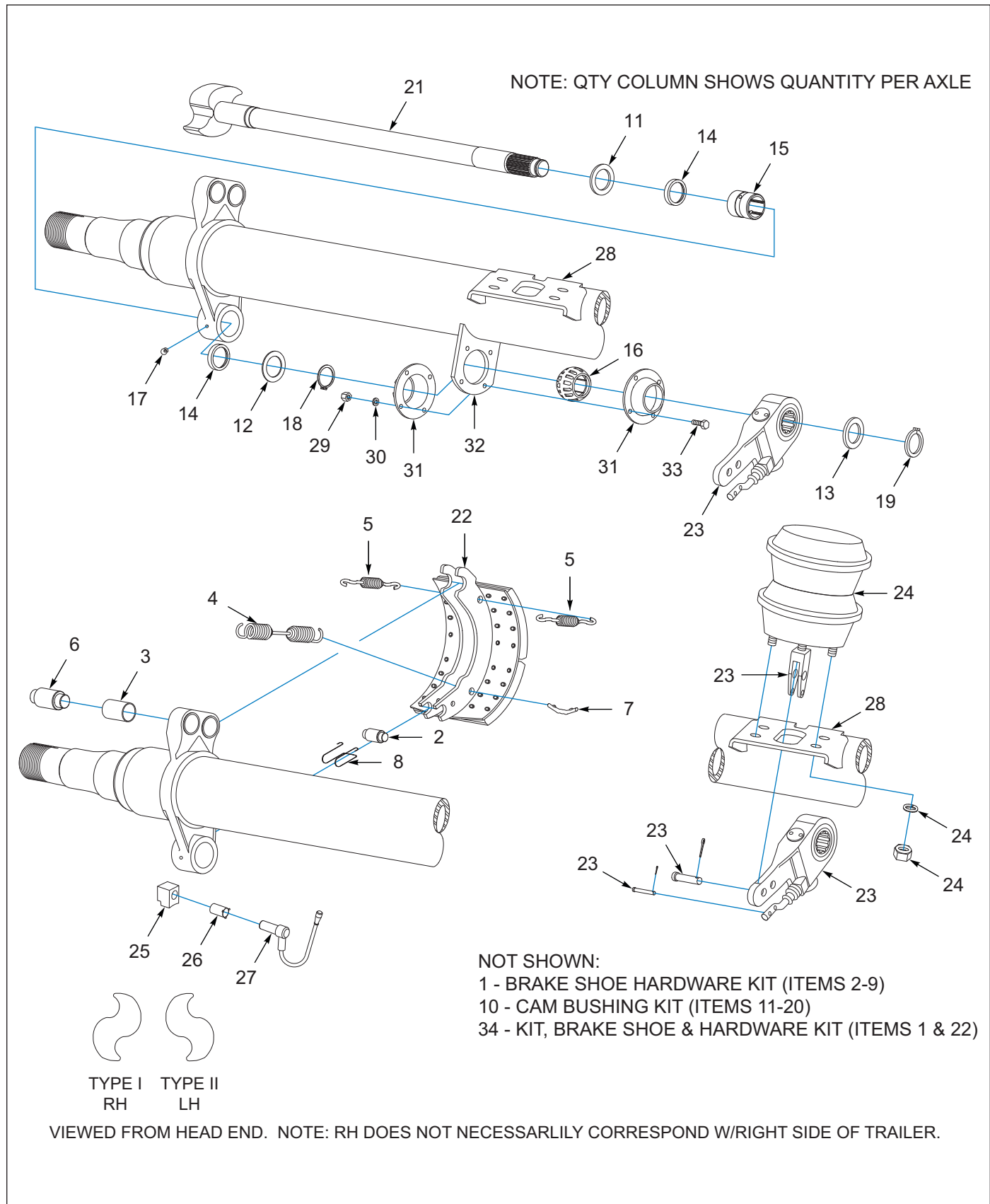


Figure 3-11: Axle 16.5 x 7 Drum Brakes, Dexter

## Axle 16.5 x 7 Drum Brakes

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                 | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------------------------|-----|
|      | 212418          | AXLE 69, 16.5 X 7 SPG BRK - 25K<br><b>(REPLACED 115713 AFTER 06/16/2018)</b>                                | --  |
| 1    | K71-136-00      | BRAKE SHOE H KIT 16.5X7 DXTR <b>(INCLUDES ITEMS 2-9)</b><br><b>(INCLUDED WITH ITEM 34)</b>                  | 2   |
| 2    | 014-065-00      | ROLLER BRAKE SHOE(KNURLED)DXTR<br><b>(ITEM 1 INCLUDES 2 EACH)</b>                                           | 4   |
| 3    | 014-068-00      | ANCHOR PIN-BRAKE SHOE DEXTERR <b>(ITEM 1 INCLUDES 2 EACH)</b>                                               | 4   |
| 4    | 046-096-00      | SPRING BRAKE SHOE-ORANGE DEXTR<br><b>(ITEM 1 INCLUDES 1 EACH)</b>                                           | 2   |
| 5    | 046-097-00      | SPRING-BRAKE SHOE KEEPER DEXTR<br><b>(ITEM 1 INCLUDES 2 EACH)</b>                                           | 4   |
| 6    | 056-017-00      | ANCHOR PIN-BRAKE SHOE DEXTER <b>(ITEM 1 INCLUDES 2 EACH)</b>                                                | 4   |
| 7    | 056-018-00      | RETAINER-RETRACTOR SPRING DXTR<br><b>(ITEM 1 INCLUDES 2 EACH)</b>                                           | 4   |
| 8    | 071-122-00      | RETAINER BRAKE SHOE ROLLER <b>(ITEM 1 INCLUDES 2 EACH)</b>                                                  | 4   |
| 9    | -----           | INSTRUCTIONS <b>(NOT SHOWN)</b> <b>(ITEM 1 INCLUDES 1 EACH)</b>                                             | 1   |
| 10   | 138090          | BUSHING KIT <b>(PER BRAKE)</b> <b>(INCLUDES ITEMS 11-20)</b>                                                | 2   |
| 11   | 005-096-00      | WASHER CAMSHAFT DEXTER <b>(ITEM 10 INCLUDES 1 EACH)</b>                                                     | 2   |
| 12   | 005-097-00      | WASHER CAM SHAFT DEXTER <b>(ITEM 10 INCLUDES 2 EACH)</b>                                                    | 2   |
| 13   | 113819          | CAMSHAFT WASHER 28 SPLINE <b>(ITEM 10 INCLUDES 1 EACH)</b>                                                  | 2   |
| 14   | 408101-001      | SPIDER SEAL <b>(ITEM 10 INCLUDES 2 EACH)</b>                                                                | 4   |
| 15   | 405129          | SPIDER BUSHING <b>(ITEM 10 INCLUDES 1 EACH)</b>                                                             | 2   |
| 16   | 405999-001      | BUSHING, CAMSHAFT SUPPORT <b>(ITEM 10 INCLUDES 1 EACH)</b>                                                  | 2   |
| 17   | 061-003-00      | GREASE FITTING-SPIDER DEXTER <b>(ITEM 10 INCLUDES 1 EACH)</b>                                               | 2   |
| 18   | 214104          | CAM LOCK RING <b>(ITEM 10 INCLUDES 2 EACH)</b>                                                              | 2   |
| 19   | 069-078-00      | SNAP RING <b>(ITEM 10 INCLUDES 1 EACH)</b>                                                                  | 2   |
| 20   | -----           | INSTRUCTIONS <b>(NOT SHOWN)</b> <b>(ITEM 10 INCLUDES 1 EACH)</b>                                            | 1   |
| 21   | 034-192-05      | CAMSHAFT, 22-5/8" LH                                                                                        | 1   |
| 21   | 034-193-05      | CAMSHAFT, 22-5/8" RH                                                                                        | 1   |
| 22   | 040-180-00      | BRAKE SHOE & LINING DEXTER <b>(INCLUDED WITH ITEM 34)</b>                                                   | 4   |
| 23   | 139383          | SLACK ADJUSTER,STR AUTO 28SPL<br><b>(INCLUDES CLEVIS, PINS, GAGE, &amp; INSTRUCTIONS)</b>                   | 2   |
| 24   | 126292          | CHAMBER 30-30 7.00 PUSHROD                                                                                  | 4   |
| 25   | 103805          | ABS SENSOR BLOCK                                                                                            | 2   |
| 26   | 101849          | ABS SENSOR SPRING CLIP                                                                                      | 2   |
| 27   | 101847          | ABS SENSOR CABLE-.4M (1FT) <b>(SENSOR &amp; CABLE ASSEMBLY)</b>                                             | 2   |
| 28   | 034-048-00      | BRACKET AIR CHAMBER MTG                                                                                     | 2   |
| 29   | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                                                                                      | 8   |
| 30   | 005-079-00      | LOCK WASHER, DEXTER                                                                                         | 8   |
| 31   | 034-032-00      | RETAINING PLATE-CAMSHAFT DEXTR<br><b>(EACH HALF SOLD SEPERATELY)</b>                                        | 4   |
| 32   | 034-047-00      | BRACKET-CAMSHAFT SUPTWELD ON <b>(2 PER AXLE)</b>                                                            | 4   |
| 33   | 007-139-00      | BOLT RET CAM BUSHING DEXTER                                                                                 | 8   |
| 34   | 159001          | BRAKE SHOE&HARDWARE KIT16.5X7 <b>(1 KIT PER AXLE)</b><br><b>(INCLUDES ITEMS 1, 2 EACH &amp; 22, 4 EACH)</b> | 1   |

## Axle 16.5 x 7 Drum & Hub Assembly

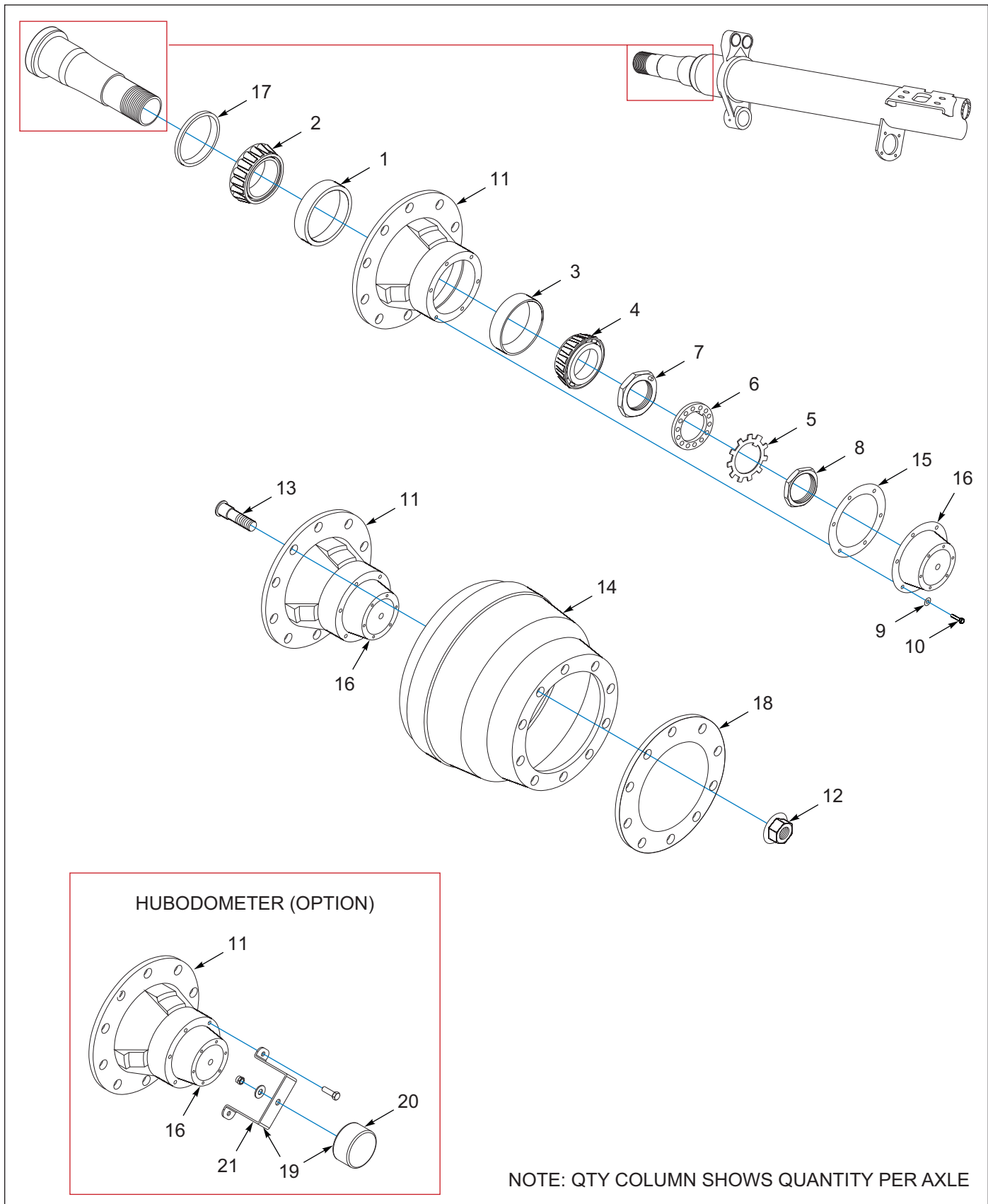


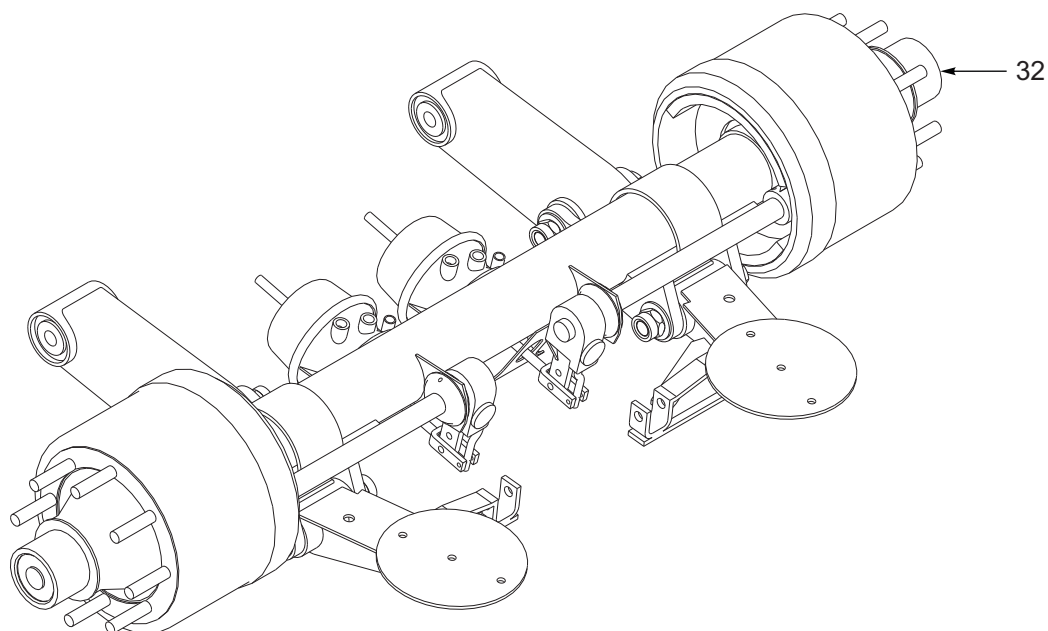
Figure 3-12: Axle 16.5 x 7 Drum & Hub Assembly, Dexter

## Axle 16.5 x 7 Drum & Hub Assembly

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                  | QTY |
|------|-----------------|--------------------------------------------------------------------------------------------------------------|-----|
|      | 212418          | AXLE 69, 16.5 X 7 SPG BRK - 25K                                                                              | - - |
| 1    | HM218210        | BEARING CUP, INNER-DEXTERD225K<br>(INCLUDED WITH ITEM 11 INCLUDES 1 EACH)                                    | 2   |
| 2    | HM218248        | INNER BEARING                                                                                                | 2   |
| 3    | HM212011        | OUTER CUP (INCLUDED WITH ITEM 11 INCLUDES 1 EACH)                                                            | 2   |
| 4    | HM212049        | OUTER BRG A19S                                                                                               | 2   |
| 5    | 105106          | STAR L/W (005-099-00)                                                                                        | 2   |
| 6    | 105107          | LOCK WASHER (005-098-00)                                                                                     | 2   |
| 7    | 103103-002      | NUT INNER SPINDLE DEXTER (006-114-00)                                                                        | 2   |
| 8    | 006-115-00      | NUT OUTER, SPINDLE, DEXTER (103102-001)                                                                      | 2   |
| 9    | 1-861-010034-10 | WASHER, LKG 5/16                                                                                             | 12  |
| 10   | 1-654-010049-03 | SCREW HX CP 5/16-18UNCX3/4GR5                                                                                | 12  |
| 11   | 110975          | HUB FOR 103781 (100 TOOTH TONE RING) (INCLUDES ITEMS 1, 3)<br>(FLANGE NUTS & STUDS SOLD SEPARATELY)          | 2   |
| 12   | 179955          | NUT, FLANGE MM22X1.5 (1.50HEX) (179933, 153408)                                                              | 20  |
| 13   | 101162          | STUD - DISC PILOT HOLE WHL (2.47 STANDOUT)<br>(BEFORE 06/16/2018)                                            | 20  |
| 13   | 113536          | STUD RH 22MM 3.5 STANDOUT (131069) (3.5 STANDOUT)<br>(AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS) | 20  |
| 14   | 110976          | DRUM FOR 103781                                                                                              | 2   |
| 15   | 3067            | GASKET HUB (153402)                                                                                          | 2   |
| 16   | 4009            | BOLT ON HUB CAP W/PLUG<br>(OIL CAP INCLUDES VENT PLUG AND ITEM 15)                                           | 2   |
| 17   | 3-659-010012    | SEAL, AXLE                                                                                                   | 2   |
| 18   | 3-870-010107    | WHEEL-GUARD, 10STD 285.75MM BC (NYLON SPACER USED TO<br>SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)        | 2   |
| 19   | 137108          | HUBODOMETER INSTL 255TIRE (572RPM)<br>(OPTION INCLUDES ITEMS 21, 22)                                         | 1   |
| 20   | 113109          | HUBODOMETER 572 RPM                                                                                          | 1   |
| 21   | 197606          | BRACKET HUBODOMETER 4"H TIS                                                                                  | 1   |

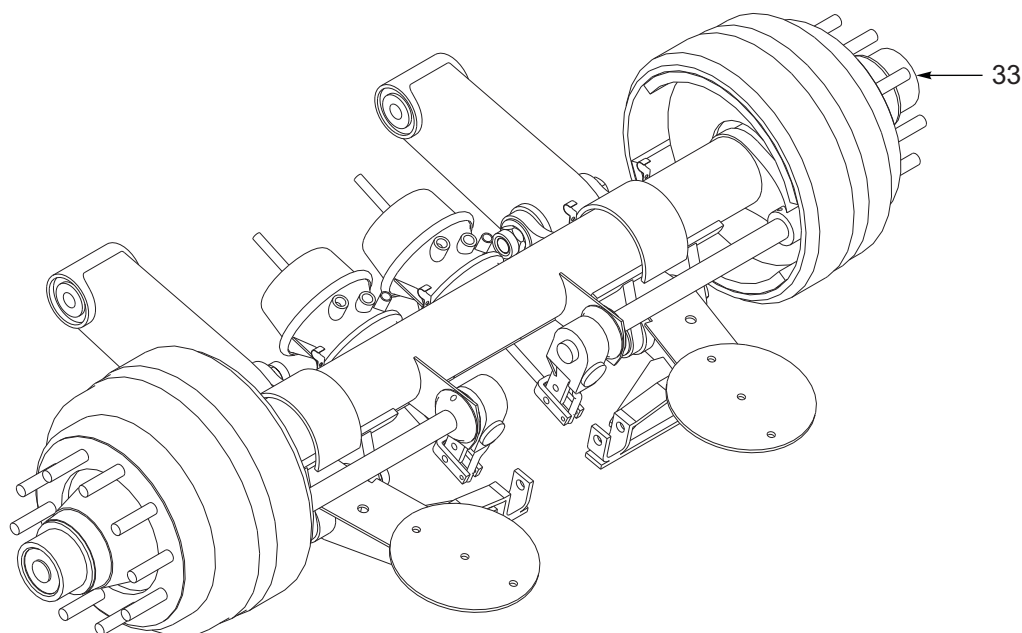
## Axle Suspension, RLU-228, 12.25 & 16.5

**IMPORTANT:** When ordering a complete Axle & Beam Assembly, call and provide the Trailer VIN Number to identify the proper replacement.



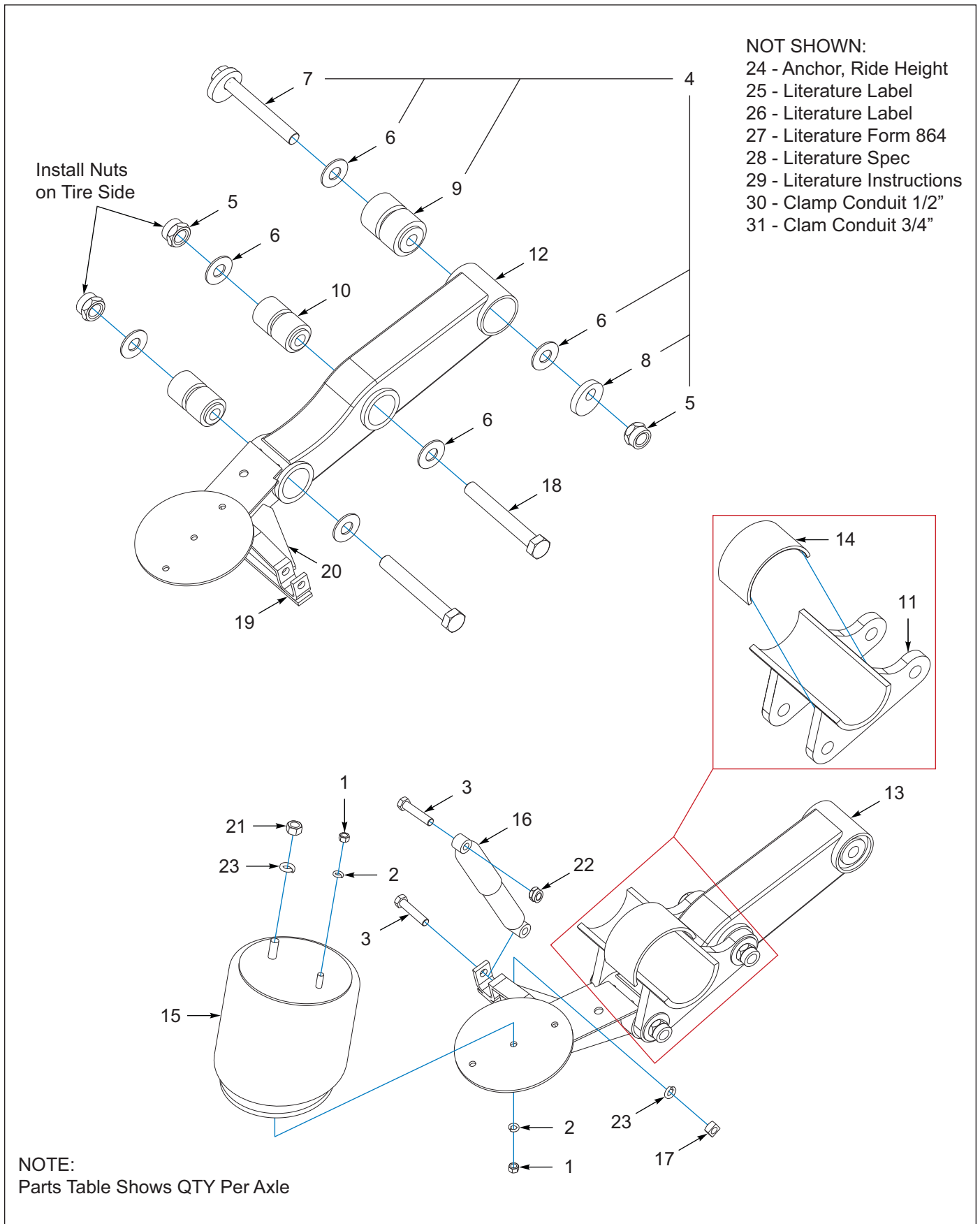
View of RLU-228-3.5, 12.25 x 7.5 Drum Brakes

**IMPORTANT:** When ordering a complete Axle & Beam Assembly, call and provide the Trailer VIN Number to identify the proper replacement.



View of RLU-228-5.5, 16.5 x 7 Drum Brakes

**Figure 3-13: Axle Suspension, RLU-228, 12.25 & 16.5 (1 of 2)**



**Figure 3-14: Axle Suspension, RLU-228, 12.25 & 16.5 (2 of 2)**



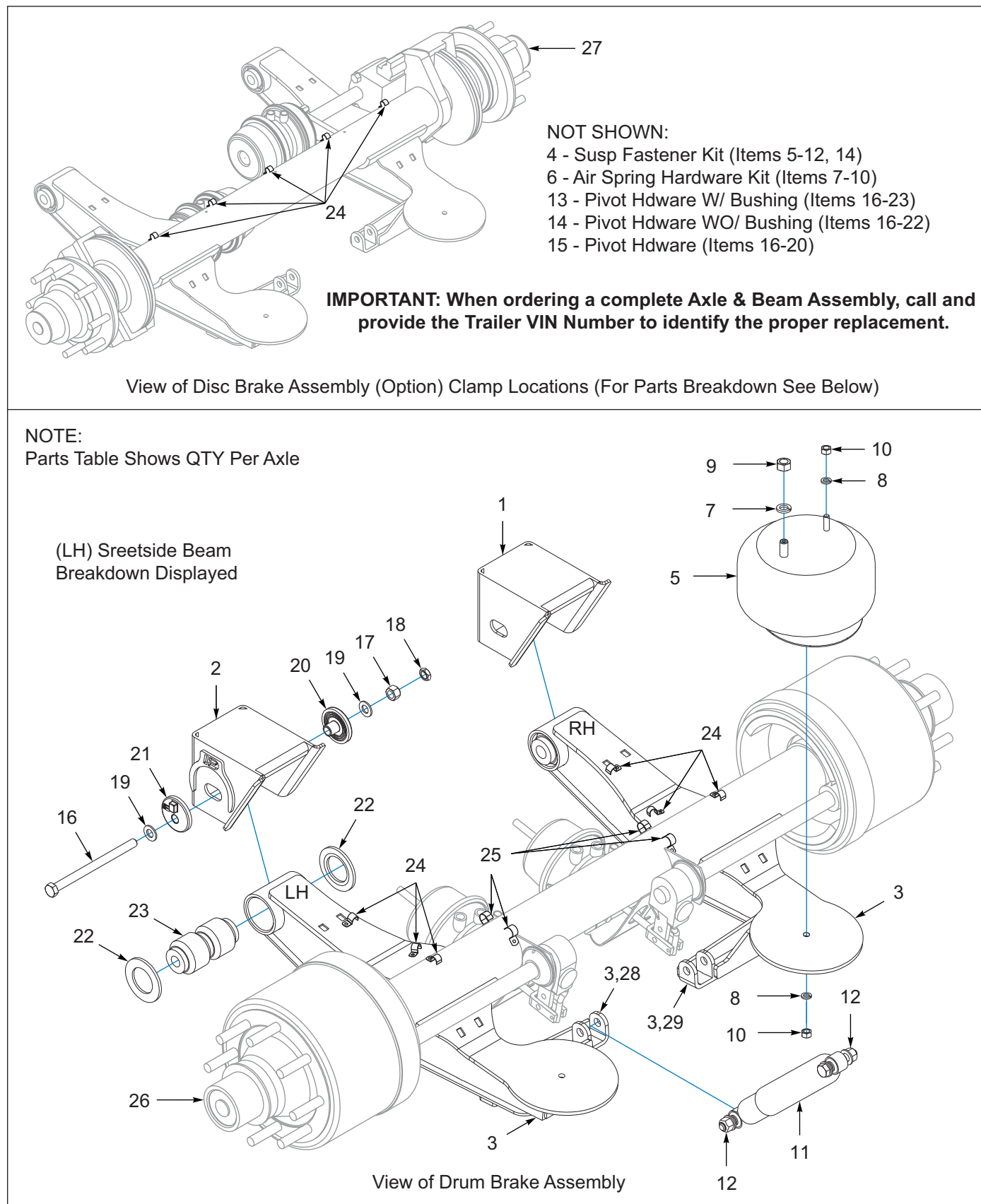
## Axle Suspension Assembly, RLU-228, 12.25 & 16.5

| ITEM | PART NUMBER     | DESCRIPTION                                                                           | QTY |
|------|-----------------|---------------------------------------------------------------------------------------|-----|
|      | 102361          | SUSPENSION,BEAM RLU-228<br>(INCLUDES ITEMS 5-6, 9-14, 18-20)                          | --  |
|      | 102363          | SUSPENSION,ADJ RLU-228-3.5 (12.25 X 7.5 BRAKES)<br>(INCLUDES ITEMS 1-9, 15-17, 18-29) | --  |
|      | 102364          | SUSPENSION,ADJ RLU-228-5.5 (16.5 X 7 BRAKES)<br>(INCLUDES ITEMS 1-9, 15-17, 18-29)    | --  |
| 1    | 1-512-010007-09 | NUT, HEX 1/2-13 GR2 ZP                                                                | 4   |
| 2    | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                             | 4   |
| 3    | 105408          | SCREW HXCP,3/4-10X3-1/2 GR8                                                           | 4   |
| 4    | 109533          | ALIGNMENT BLOCK ASSY#48100294 (KIT INCLUDES ITEMS 5-9)                                | 1   |
| 5    | 111008          | NUT LOCK 1-1/8-7 NEWAY<br>(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)                     | 6   |
| 6    | 111010          | WASHER FLAT NEWAY 90036177<br>(INCLUDED WITH ITEM 4, INCLUDES 2 EACH)                 | 12  |
| 7    | 129005          | ALIGN BLOCK 90508019<br>(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)                       | 2   |
| 8    | 129006          | ALIGN BLOCK NON-WELD 90008238<br>(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)              | 2   |
| 9    | 900-08-139      | BUSHING NEWAY AR-45 SUSPENSIO<br>(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)              | 2   |
| 10   | 111011          | RUBBER BUSH NEWAY 90008149                                                            | 4   |
| 11   | 111012          | AXLE ADAPTER NEWAY 90001200                                                           | 2   |
| 12   | 111013          | BEAM LH NEWAY 90516600                                                                | 1   |
| 13   | 111014          | BEAM RH NEWAY 90516601                                                                | 1   |
| 14   | 111015          | SAFETY STRAP NEWAY 90025288                                                           | 2   |
| 15   | 905-57-129      | SPRING AIR BAG AR-45 (12.25 X 7.5 BRAKES)                                             | 2   |
| 15   | 111016          | AIR SPRING NEWAY 90557159 (16.5 X 7 BRAKES)                                           | 2   |
| 16   | 900 45 040      | SHOCK ABSORBER AR93 (12.25 X 7.5 BRAKES)<br>(SHOCK STRAP - SEE PAGE 3-33)             | 2   |
| 16   | 111017          | SHOCK NEWAY 90044642 (16.5 X 7 BRAKES)<br>(SHOCK STRAP - SEE PAGE 3-34)               | 2   |
| 17   | 111022          | NUT,SQ 3/4-10 NEWAY 93400367                                                          | 2   |
| 18   | 111023          | SCREW 1-1/8-7 NEWAY 93201051                                                          | 4   |
| 19   | 126900          | BRACKET BTM SHOCK ARU93                                                               | 2   |
| 20   | 221602          | GUSSET SHOCK LOWER TRL                                                                | 2   |
| 21   | 934 00 149      | HEX NUT 3/4-16 NEWAY AR-75-9                                                          | 2   |
| 22   | 934-00-492      | LOCK NUT 3/4-10                                                                       | 2   |
| 23   | 936 00 077      | LOCK WASHER 3/4                                                                       | 6   |
| 24   | 111018          | ANCHOR,RIDE HT NEWAY 90054038 (NOT SHOWN)                                             | 1   |
| 25   | -----           | LITERATURE LABEL (NOT SHOWN)                                                          | 1   |
| 26   | -----           | LITERATURE LABEL (NOT SHOWN)                                                          | 1   |
| 27   | -----           | LITERATURE FORM 864 (NOT SHOWN)                                                       | 1   |
| 28   | -----           | LITERATURE SPEC (NOT SHOWN)                                                           | 1   |

## **Axle Suspension Assembly, RLU-228, 12.25 & 16.5**

| <b>ITEM</b> | <b>PART NUMBER</b> | <b>DESCRIPTION</b>                                                                                       | <b>QTY</b> |
|-------------|--------------------|----------------------------------------------------------------------------------------------------------|------------|
| 29          | -----              | LITERATURE INSTRUCTIONS ( <b>NOT SHOWN</b> )                                                             | 1          |
| 30          | 3-181-010034-1     | CLAMP CONDUIT STEEL 1/2 ( <b>NOT SHOWN</b> )                                                             | 6          |
| 31          | 3-181-010034-2     | CLAMP CONDUIT STEEL 3/4 ( <b>NOT SHOWN</b> )                                                             | 4          |
| 32          | -----              | AXLE & BEAM ASSEMBLY ( <b>12.25 X 7.5 BRAKES</b> )<br>( <b>VIN / NIV REQUIRED, CALL FOR ASSISTANCE</b> ) | --         |
| 33          | -----              | AXLE & BEAM ASSEMBLY ( <b>16.5 X 7 BRAKES</b> )<br>( <b>VIN / NIV REQUIRED, CALL FOR ASSISTANCE</b> )    | --         |

## Axle Suspension, LSS-25K-3.5 RLU, 12.25

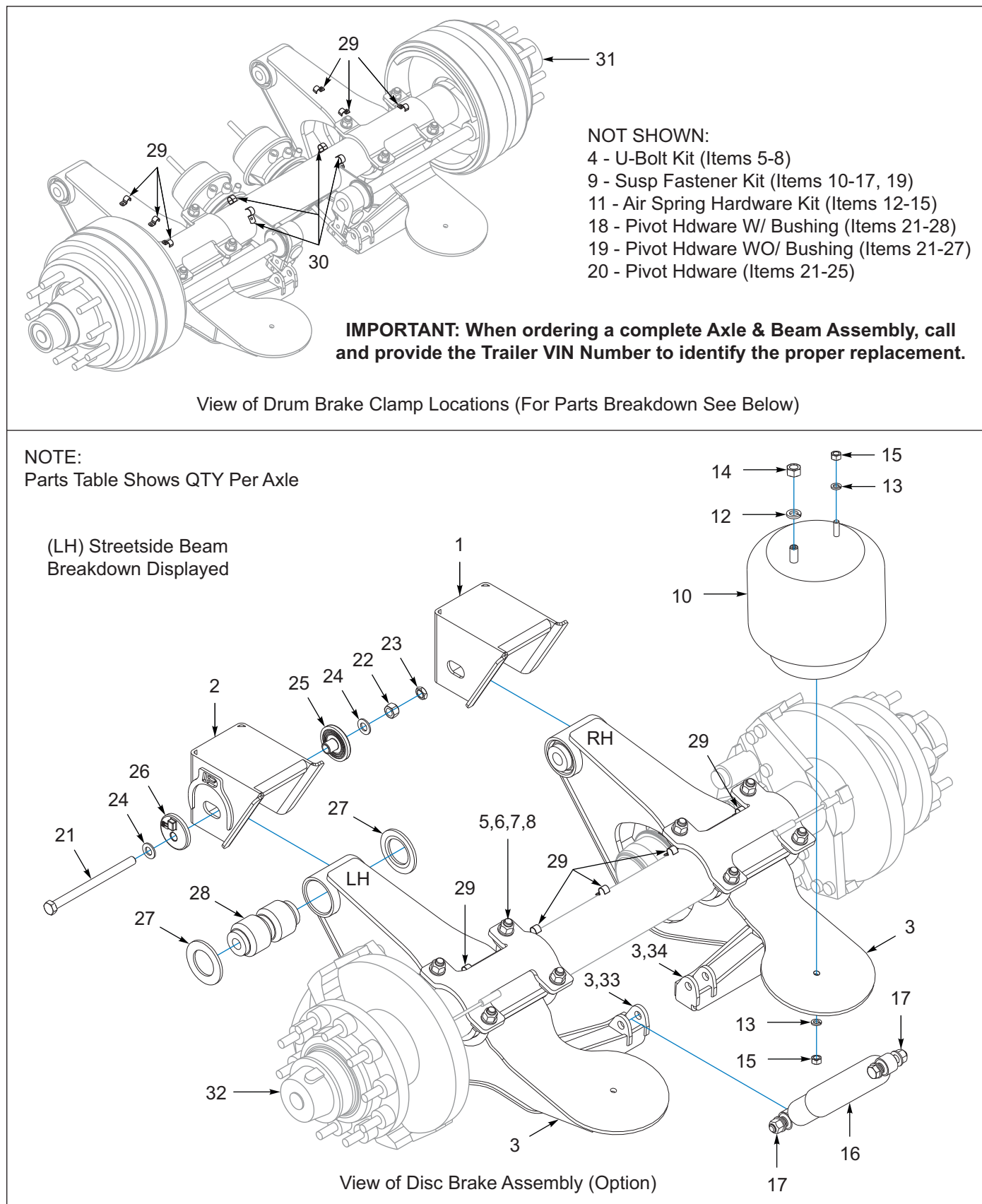


**Figure 3-15: Axle Suspension, LSS-25K-3.5RLU, 12.25**

## Axle Suspension, LSS-25K-3.5 RLU, 12.25

| ITEM | PART NUMBER    | DESCRIPTION                                                                                   | QTY |
|------|----------------|-----------------------------------------------------------------------------------------------|-----|
|      | -----          | AXLE WELDMENT 2512 SPRING (DRUM BRAKE STANDARD)<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)  | --  |
|      | -----          | AXLE WELDMENT 2512 DISC (DISC BRAKE OPTION)<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)      | --  |
| 1    | 218068         | FRAME BRKT RH LSS-25K SUSP                                                                    | 1   |
| 2    | 218070         | FRAME BRKT LH LSS-25K SUSP                                                                    | 1   |
| 3    | 218075         | SUSPENSION BEAMS LSS-25K (INCLUDES RH AND LH BEAMS &<br>ITEMS 28-29, LOWER SHOCK MOUNTS)      | 1   |
| 4    | 218079         | SUSP FASTNER KIT 25K-3.5RLU (INCLUDES ITEMS 5-12, 14)                                         | 1   |
| 5    | 225962         | AIR SPRING F/S W01-358-9307 (INCLUDED WITH ITEM 4)                                            | 2   |
| 6    | 225963         | HARDWARE KIT AIR SPRING (INCLUDED WITH ITEM 4)<br>(INCLUDES ITEMS 7-10)                       | 2   |
| 7    | -----          | LOCK WASHER 3/4" (INCLUDED WITH ITEM 6)                                                       | 1   |
| 8    | -----          | LOCK WASHER 1/2" (INCLUDED WITH ITEM 6)                                                       | 2   |
| 9    | -----          | NUT 3/4-16UNF (INCLUDED WITH ITEM 6)                                                          | 1   |
| 10   | -----          | NUT 1/2-13UNC (INCLUDED WITH ITEM 6)                                                          | 2   |
| 11   | 225955         | SHOCK ABSORBER M85323 (INCLUDED WITH ITEM 4)<br>(SHOCK STRAP - SEE PAGE 3-35)                 | 2   |
| 12   | 225956         | HARDWARE KIT M85323 SHOCK (INCLUDED WITH ITEM 4)<br>(INCLUDES 2 BOLTS, 2 NUTS, 4 WASHERS)     | 2   |
| 13   | 225970         | PIVOT HARDWARE KIT W/BUSHING (INCLUDES ITEMS 16-23)                                           | 2   |
| 14   | 225969         | PIVOT HARDWARE KIT LSS-25K (INCLUDED WITH ITEM 4)<br>(INCLUDES ITEMS 16-22)                   | 2   |
| 15   | 231928         | PIVOT HARDWARE KIT-7/8" EC CLR (INCLUDES ITEMS 16-20)                                         | 2   |
| 16   | 231923         | SCREW, HEX 7/8-14UNF-2AX9 GR8<br>(INCLUDED WITH ITEMS 13, 14, 15)                             | 1   |
| 17   | 231924         | NUT, 7/8-14UNF-2B CLASS C LOCK<br>(INCLUDED WITH ITEMS 13, 14, 15)                            | 1   |
| 18   | 2J084          | NUT HEX JAM 7/8-14 ZP (INCLUDED WITH ITEMS 13, 14, 15)                                        | 2   |
| 19   | 231925         | WASHER, 7/8 ID (INCLUDED WITH ITEMS 13, 14, 15)                                               | 1   |
| 20   | 231926         | PLAIN PIVOT CLAMP (INCLUDED WITH ITEMS 13, 14)                                                | 1   |
| 21   | 231927         | ECCENTRIC PIVOT CLAMP (INCLUDED WITH ITEMS 13, 14)                                            | 1   |
| 22   | 225958         | BEAM SPACER LSS-25K (INCLUDED WITH ITEMS 13, 14, 15)                                          | 2   |
| 23   | 225960         | PIVOT BUSHING SHORT LSS-25K (INCLUDED WITH ITEM 13)                                           | 1   |
| 24   | 3-181-010034-1 | CLAMP CONDUIT STEEL 1/2 (DISC BRAKE AXLES, REQ 5 EACH)<br>(DRUM BRAKE AXLES, REQ 6 EACH)      | --  |
| 25   | 3-181-010034-2 | CLAMP CONDUIT STEEL 3/4 (DRUM BRAKE)                                                          | 4   |
| 26   | -----          | AXLE & BEAM ASSEMBLY (12.25 X 7.5 BRAKES)<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)        | --  |
| 27   | -----          | AXLE & BEAM ASSEMBLY (12.25 DISC BRAKES, OPTION)<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) | --  |
| 28   | 230611         | SHOCK WLDMT LH LSS-25K (INCLUDED WITH ITEM 3)                                                 | 1   |
| 29   | 230612         | SHOCK MT WLDMT RH LSS-25K (INCLUDED WITH ITEM 3)                                              | 1   |

## Axle Suspension, LSS-25K-5.5RLU, 16.5



**Figure 3-16: Axle Suspension, LSS-25K-5.5RLU, 16.5**

## Axle Suspension, LSS-25K-5.5RLU, 16.5

| ITEM | PART NUMBER    | DESCRIPTION                                                                                                        | QTY |
|------|----------------|--------------------------------------------------------------------------------------------------------------------|-----|
|      | -----          | AXLE WLDMT 2516 SPRING ( <b>DRUM BRAKE</b> )<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)                          | --  |
|      | -----          | AXLE WLDMT 2516 DISC ( <b>DISK BRAKE OPTION</b> )<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)                     | --  |
| 1    | 218068         | FRAME BRKT RH LSS-25K SUSP                                                                                         | 1   |
| 2    | 218070         | FRAME BRKT LH LSS-25K SUSP                                                                                         | 1   |
| 3    | 226048         | SUSPENSION BEAMS 25K-05_5RLU ( <b>INCLUDES RH AND LH BEAMS, ITEMS 33-34 SHOCK MOUNTS &amp; ITEM 4</b> )            | 1   |
| 4    | 238565         | U-BOLT KIT, LSS-25K-xxRLU/RLY ( <b>SET OF 2</b> )<br>( <b>INCLUDED WITH ITEM 3</b> ) ( <b>INCLUDES ITEMS 5-8</b> ) | 1   |
| 5    | -----          | WASHER, 3/4 ID ( <b>INCLUDED WITH ITEM 4</b> )                                                                     | 8   |
| 6    | -----          | LOCK NUT, 3/4-16UNF-2B ( <b>INCLUDED WITH ITEM 4</b> )                                                             | 8   |
| 7    | -----          | U-BOLT CLAMP WELDMENT ( <b>INCLUDED WITH ITEM 4</b> )                                                              | 4   |
| 8    | -----          | U-BOLT, 3/4-16UNF GR8 ( <b>INCLUDED WITH ITEM 4</b> )                                                              | 4   |
| 9    | 226049         | SUSP FASTNER KIT 25K-05_5RLU ( <b>INCLUDES ITEMS 10-17, 19</b> )                                                   | 1   |
| 10   | 235294         | AIR SPRING DEXTER 5.5RLU ( <b>INCLUDED WITH ITEM 9</b> )                                                           | 2   |
| 11   | 225963         | HARDWARE KIT AIR SPRING ( <b>INCLUDED WITH ITEM 9</b> )<br>( <b>INCLUDES ITEMS 12-15</b> )                         | 2   |
| 12   | -----          | LOCK WASHER 3/4" ( <b>INCLUDED WITH ITEM 11</b> )                                                                  | 1   |
| 13   | -----          | LOCK WASHER 1/2" ( <b>INCLUDED WITH ITEM 11</b> )                                                                  | 2   |
| 14   | -----          | NUT 3/4-16UNF ( <b>INCLUDED WITH ITEM 11</b> )                                                                     | 1   |
| 15   | -----          | NUT 1/2-13UNC ( <b>INCLUDED WITH ITEM 11</b> )                                                                     | 2   |
| 16   | 242755         | SHOCK ABSORBER DEXTER 5.8" ( <b>INCLUDED WITH ITEM 9</b> )<br>( <b>SHOCK STRAP - SEE PAGE 3-36</b> )               | 2   |
| 17   | 225956         | HARDWARE KIT M85323 SHOCK ( <b>INCLUDED WITH ITEM 9</b> )<br>( <b>INCLUDES 2 BOLTS, 2 NUTS, 4 WASHERS</b> )        | 2   |
| 18   | 225970         | PIVOT HARDWARE KIT W/BUSHING ( <b>INCLUDES ITEMS 21-28</b> )                                                       | 2   |
| 19   | 225969         | PIVOT HARDWARE KIT LSS-25K ( <b>INCLUDED IN ITEM 9</b> )<br>( <b>INCLUDES ITEMS 21-27</b> )                        | 2   |
| 20   | 231928         | PIVOT HARDWARE KIT-7/8" EC CLR ( <b>INCLUDES ITEMS 21-25</b> )                                                     | 2   |
| 21   | 231923         | SCREW, HEX 7/8-14UNF-2AX9 GR8<br>( <b>INCLUDED WITH ITEMS 18, 19, 20</b> )                                         | 1   |
| 22   | 231924         | NUT, 7/8-14UNF-2B CLASS C LOCK<br>( <b>INCLUDED WITH ITEMS 18, 19, 20</b> )                                        | 1   |
| 23   | 2J084          | NUT HEX JAM 7/8-14 ZP ( <b>INCLUDED WITH ITEMS 18, 19, 20</b> )                                                    | 2   |
| 24   | 231925         | WASHER, 7/8 ID ( <b>INCLUDED WITH ITEMS 18, 19, 20</b> )                                                           | 1   |
| 25   | 231926         | PLAIN PIVOT CLAMP ( <b>INCLUDED WITH ITEMS 18, 19</b> )                                                            | 1   |
| 26   | 231927         | ECCENTRIC PIVOT CLAMP ( <b>INCLUDED WITH ITEMS 18, 19</b> )                                                        | 1   |
| 27   | 225958         | BEAM SPACER LSS-25K ( <b>INCLUDED WITH ITEMS 18, 19, 20</b> )                                                      | 2   |
| 28   | 225960         | PIVOT BUSHING SHORT LSS-25K ( <b>INCLUDED WITH ITEM 18</b> )                                                       | 1   |
| 29   | 3-181-010034-1 | CLAMP CONDUIT STEEL 1/2 ( <b>DISC BRAKE AXLES, REQ 5 EACH</b> )<br>( <b>DRUM BRAKE AXLES, REQ 6 EACH</b> )         | --  |
| 30   | 3-181-010034-2 | CLAMP CONDUIT STEEL 3/4 ( <b>DRUM BRAKE</b> )                                                                      | 4   |
| 31   | -----          | AXLE & BEAM ASSEMBLY ( <b>16.5 X 7 BRAKES</b> )<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)                       | --  |
| 32   | -----          | AXLE & BEAM ASSEMBLY ( <b>16.5 DISC BRAKES, OPTION</b> )<br>(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)              | --  |
| 33   | 230611         | SHOCK WLDMT LH LSS-25K ( <b>INCLUDED WITH ITEM 3</b> )                                                             | 1   |
| 34   | 230612         | SHOCK MT WLDMT RH LSS-25K ( <b>INCLUDED WITH ITEM 3</b> )                                                          | 1   |

## Shock Strap, Limit, RLU 228-3.5 (OPTION)

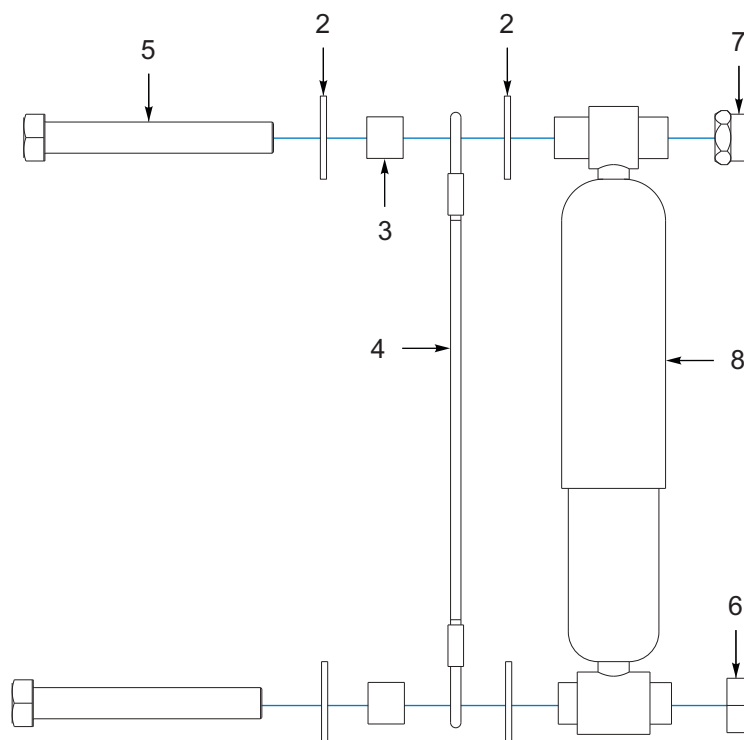


Figure 3-17: Shock Strap, Limit, RLU 228-3.5 (OPTION)

## Shock Strap, Limit, RLU 228-3.5 (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                        | QTY |
|------|-----------------|--------------------------------------------------------------------|-----|
|      | 141708          | WIRE ROPE STRAPKIT RLU228-3.5 (INCLUDES 2 KITS, ITEM 1)            | --  |
|      | 179103          | WR STRAP KIT 2AX RLU228-3.5 (INCLUDES 4 KITS, ITEM 1)              | --  |
|      | 141709          | STRAP KIT INSL 3AX RLU228-3.5 (INCLUDE 6 KITS, ITEM 1)             | --  |
| 1    | -----           | SHOCK STRAP LIMIT RLU228-3.5 (1 KIT INCLUDES ITEMS 2-5)            | --  |
| 2    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                           | 4   |
| 3    | 170120          | TUBE, RD 1 ODX .782 ID X 11/16                                     | 2   |
| 4    | 179107          | WIRE ROPE STRAP, RLU 228-3.5                                       | 1   |
| 5    | W908406-4       | SCREW 3/4-10X4-1/2 HEX HD CAP                                      | 2   |
| 6    | 934-00-367      | NUT SQ 3/4-10 (NOT INCLUDED)                                       | 1   |
| 7    | 934-00-492      | LOCK NUT 3/4-10 (NOT INCLUDED)                                     | 1   |
| 8    | 900 45 040      | SHOCK ABSORBER AR93 (NOT INCLUDED)<br>(FOR RLU 228-3.5 SUSPENSION) | 1   |



## Shock Strap, Limit, RLU 228-5.5 (OPTION)

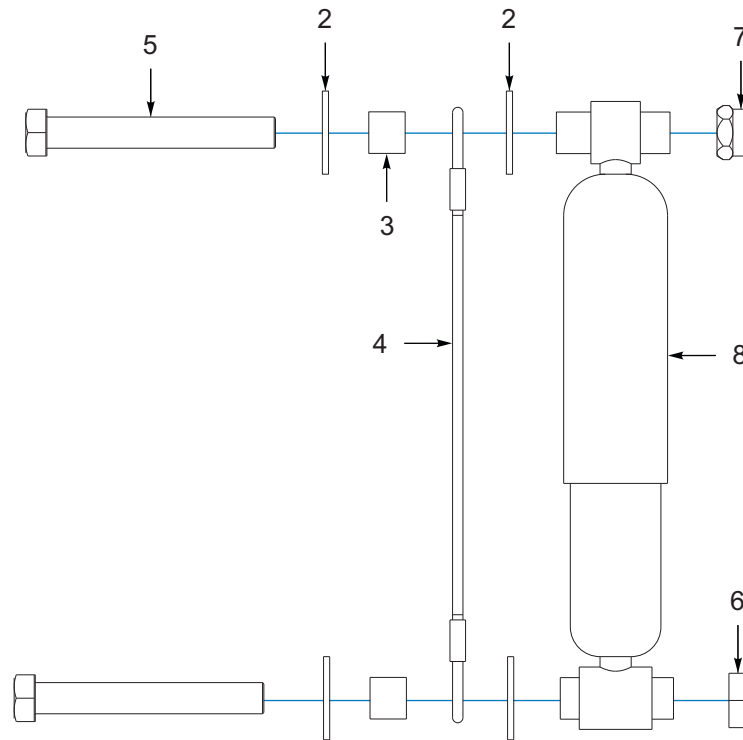


Figure 3-18: Shock Strap, Limit, RLU 228-5.5 (OPTION)

## Shock Strap, Limit, RLU 228-5.5 (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                              | QTY |
|------|-----------------|--------------------------------------------------------------------------|-----|
|      | 127708          | STRAP,SHOCK LMT,RLU250&228-5.5 (INCLUDES 2 KITS, ITEM 1)<br>(FOR 1 AXLE) | --  |
|      | 163746          | LIMIT STRAP SHCK 2AX RLU 228-5 (INCLUDES 4 KITS, ITEM 1)                 | --  |
|      | 162403          | LIMIT STRAP SHOCK 3AX RLU228-5 (INCLUDES 6 KITS, ITEM 1)                 | --  |
| 1    | -----           | SHOCK STRAP LIMIT RLU228-5.5 (1 KIT INCLUDES ITEMS 2-5)                  | --  |
| 2    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                 | 4   |
| 3    | 170120          | TUBE, RD 1 ODX .782 ID X 11/16                                           | 2   |
| 4    | 179108          | WIRE ROPE STRAP, RLU 228-5.5                                             | 1   |
| 5    | W908406-4       | SCREW 3/4-10X4-1/2 HEX HD CAP                                            | 2   |
| 6    | 934-00-367      | NUT SQ 3/4-10 (NOT INCLUDED)                                             | 1   |
| 7    | 934-00-492      | LOCK NUT 3/4-10 (NOT INCLUDED)                                           | 1   |
| 8    | 111017          | SHOCK NEWAY 90044642 (NOT INCLUDED)<br>(FOR RLU 228-5.5 SUSPENSION)      | 1   |



## Shock Strap, Limit, LSS-25K-3.5 (OPTION)

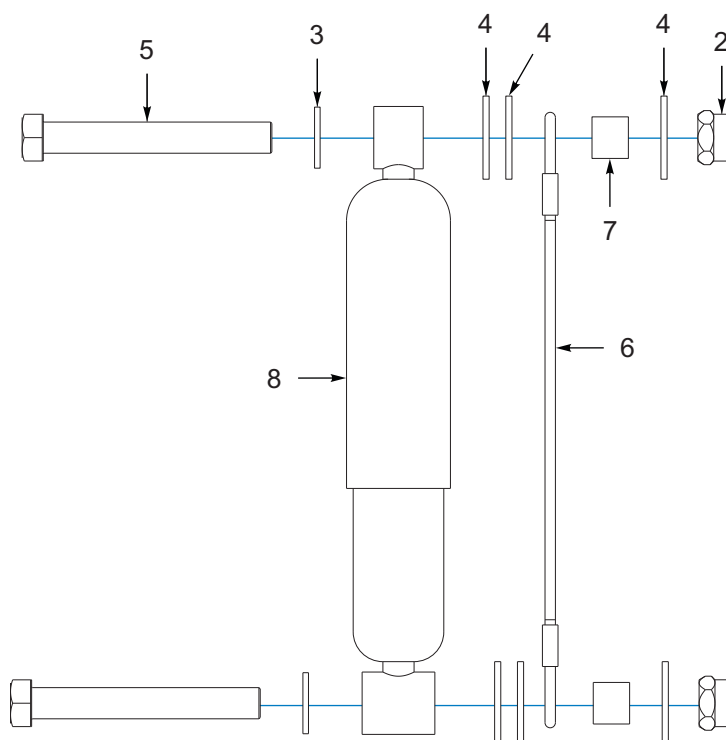


Figure 3-19: Shock Strap, Limit, LSS-25K-3.5 (OPTION)

## Shock Strap, Limit, LSS-25K-3.5 (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                  | QTY |
|------|-----------------|--------------------------------------------------------------|-----|
|      | 228953          | WR STRAP KIT 1 AX LSS-25K-3.5 (INCLUDES 2 KITS, ITEM 1)      | --  |
|      | 223231          | 4 SHOCK STRAP KITS FOR 2 AXLES (INCLUDES 4 KITS, ITEM 1)     | --  |
|      | 223232          | 6 SHOCK STRAP KITS FOR 3 AXLES (INCLUDES 6 KITS, ITEM 1)     | --  |
| 1    | 223230          | STRAP SHOCK LIMIT LSS-25K-3.5 (1 KIT INCLUDES ITEMS 2-7)     | --  |
| 2    | 1-512-010005-15 | NUT, HEX, SLFLKG GRB 3/4-10                                  | 2   |
| 3    | 1-861-010032-20 | WASHER, FLAT, 3/4 N ZP/CD                                    | 2   |
| 4    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                     | 6   |
| 5    | 139201          | SCREW, HX CP 3/4-10 UNC X 5.50 GR8                           | 2   |
| 6    | 228951          | WIRE ROPE STRAP LSS-25K-3.5                                  | 1   |
| 7    | 228952          | TUBE RD 1 OD X .782 ID X 7/8                                 | 2   |
| 8    | 225955          | SHOCK ABSORBER M85323 (NOT INCLUDED)<br>(FOR LSS-25K-3.5RLU) | 1   |

## Shock Strap, Limit, LSS-25K-5.5 (OPTION)

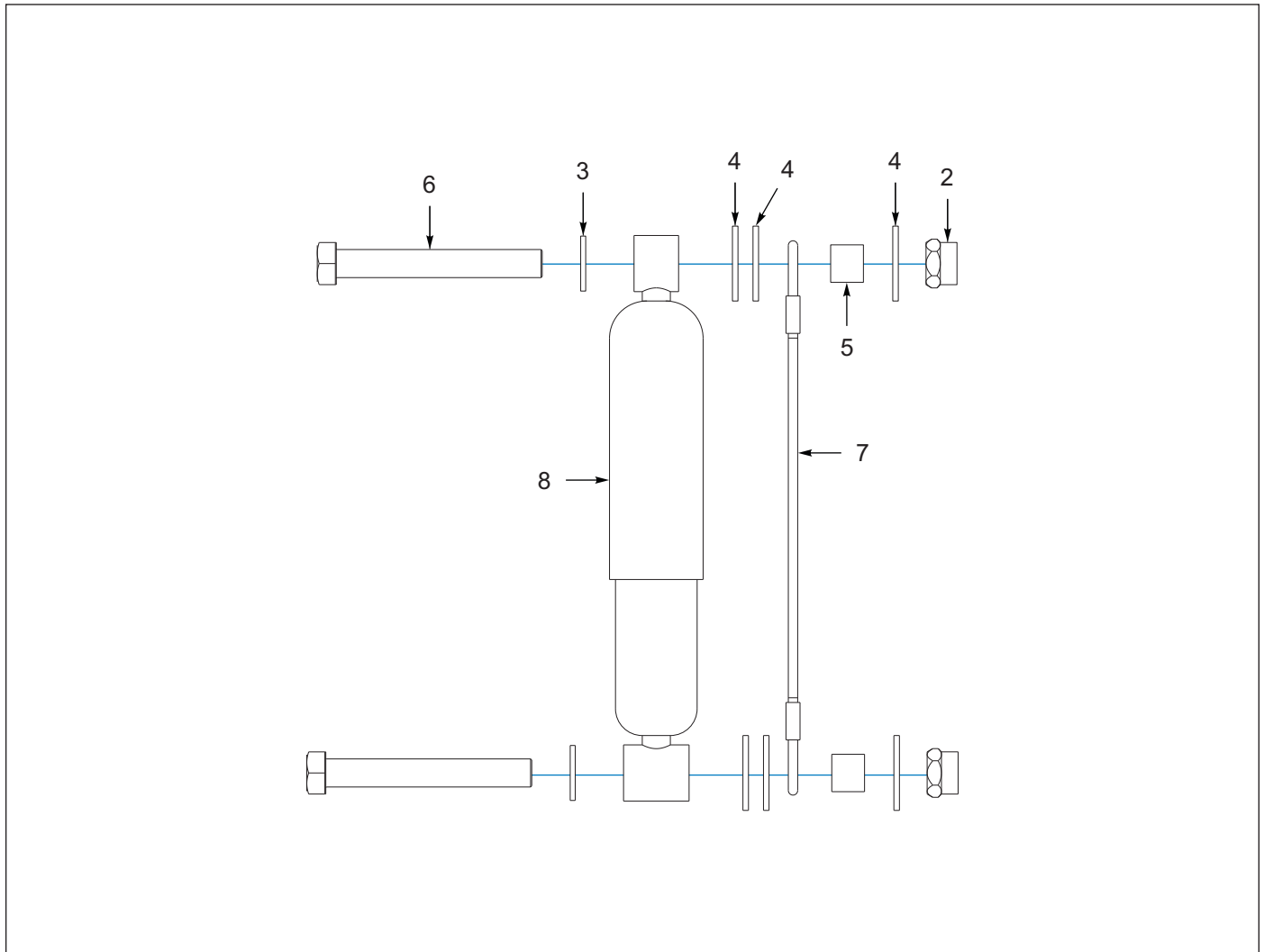


Figure 3-20: Shock Strap, Limit, RLU 228-5.5 (OPTION)

## Shock Strap, Limit, LSS-25K-5.5 (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                      | QTY |
|------|-----------------|----------------------------------------------------------------------------------|-----|
|      | 236487          | WR STRAP KIT 1AX LSS-25K-5.5 <b>(INCLUDES 2 KITS, ITEM 1)</b>                    | --  |
|      | 236488          | 4 SHOCK STRAP KITS FOR 2 AXLES <b>(INCLUDES 4 KITS, ITEM 1)</b>                  | --  |
|      | 236489          | 6 SHOCK STRAP KITS FOR 3 AXLES <b>(INCLUDES 6 KITS, ITEM 1)</b>                  | --  |
| 1    | 236486          | STRAP SHOCK LIMIT LSS-25K-5.5 <b>(1 KIT INCLUDES ITEMS 2-7)</b>                  | --  |
| 2    | 1-512-010005-15 | NUT, HEX, SLFLKG GRB 3/4-10                                                      | 2   |
| 3    | 1-861-010032-20 | WASHER, FLAT, 3/4 N ZP/CD                                                        | 2   |
| 4    | 1-861-010032-21 | WASHER, FLAT 3/4 W ZP/CD                                                         | 6   |
| 5    | 228952          | TUBE RD 1 OD X .782 ID X 7/8 <b>(BEFORE 03/17/2022)</b>                          | 2   |
| 5    | 170120          | TUBE, RD 1 ODX .782 ID X 11/16 <b>(AFTER 03/17/2022)</b>                         | 2   |
| 6    | 139201          | SCREW, HX CP 3/4-10 UNC X 5.50 GR8 <b>(BEFORE 02/08/2022)</b>                    | 2   |
| 6    | 172883          | SCREW HX CP, 3/4-10 X 5 GR8 ZP <b>(AFTER 02/08/2022)</b>                         | 2   |
| 7    | 236485          | WIRE ROPE STRAP LSS-25K-5.5                                                      | 1   |
| 8    | 242755          | SHOCK ABSORBER DEXTER 5.8" <b>(NOT INCLUDED)</b><br><b>(FOR LSS-25K-5.5 RLU)</b> | 1   |

## Bumper, Cam Follower, E-Chain & Mud Flap

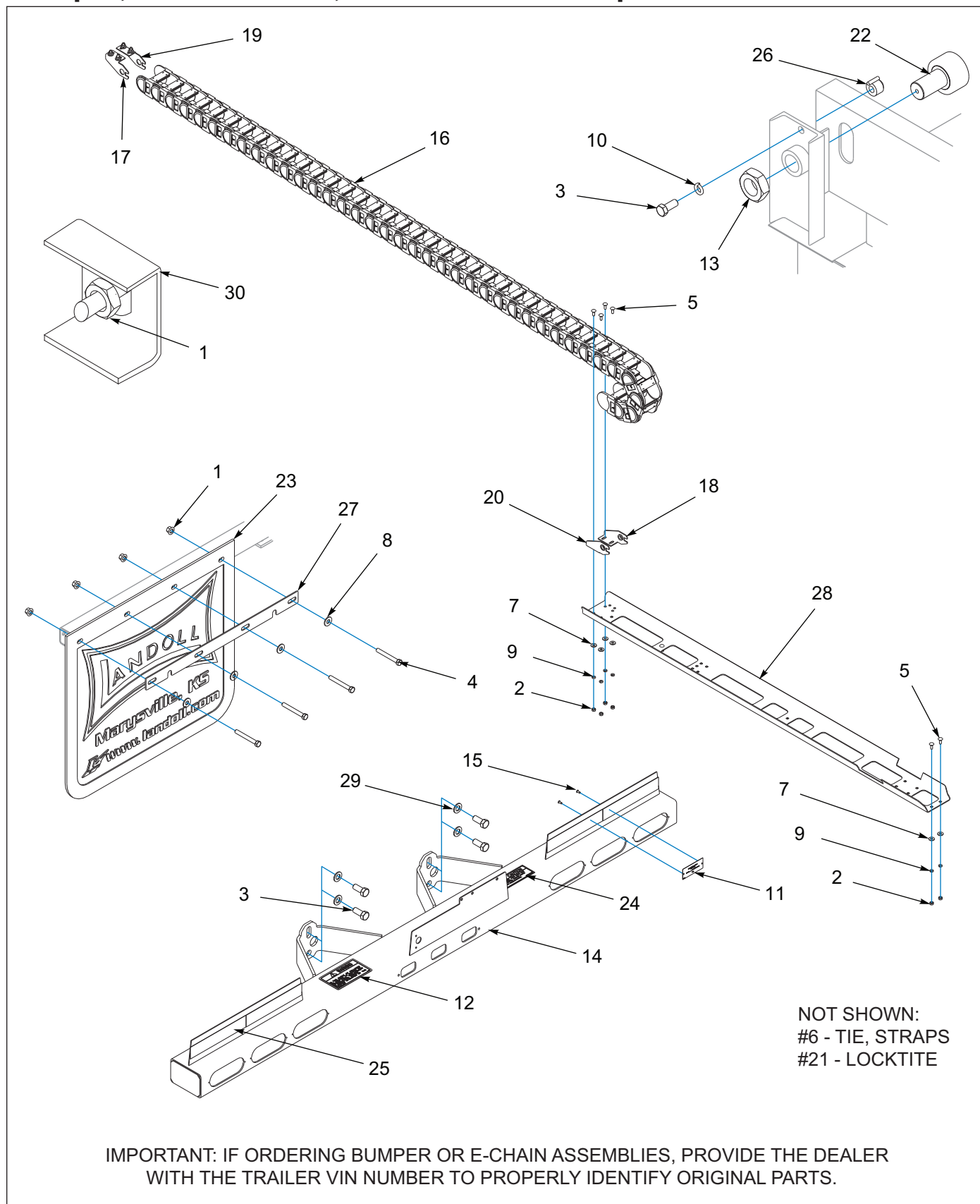


Figure 3-21: Bumper, Cam Follower, E-Chain & Mud Flap

## Bumper, Cam Follower, E-Chain & Mud Flap

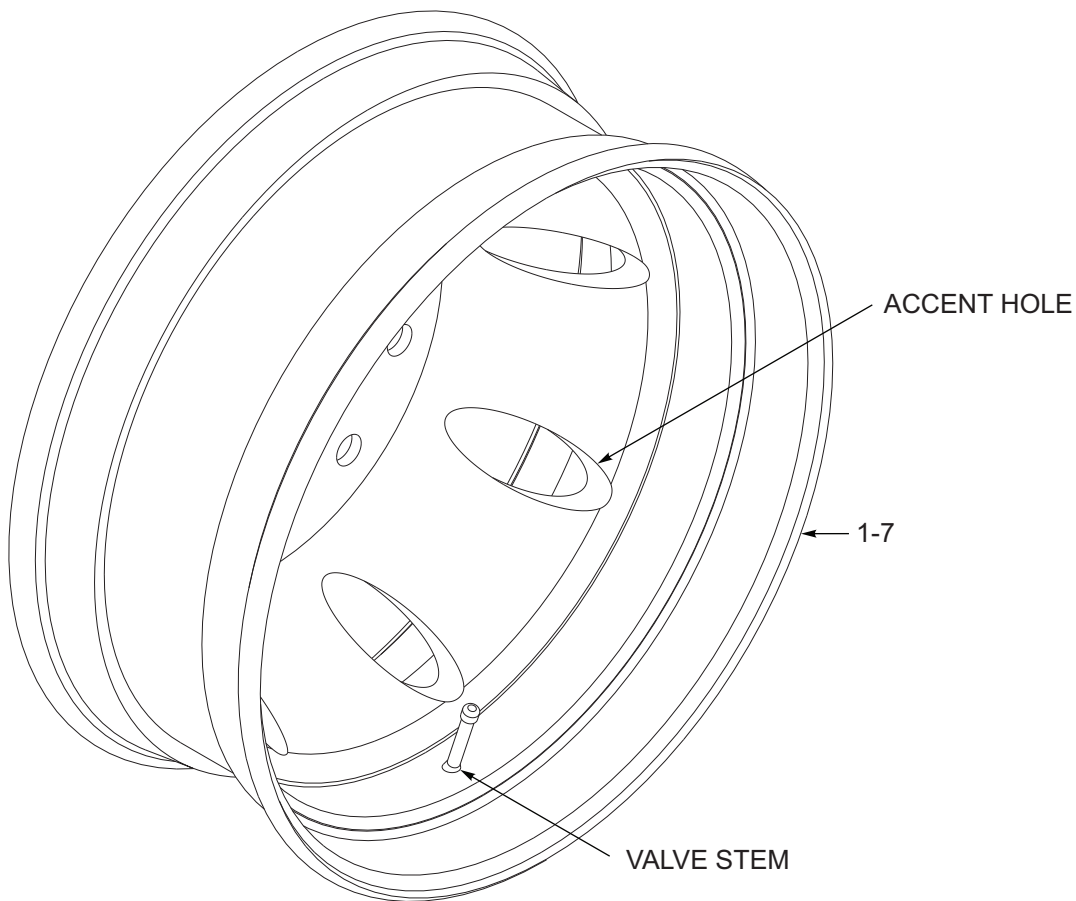
| ITEM | PART NUMBER     | DESCRIPTION                                        | QTY. |
|------|-----------------|----------------------------------------------------|------|
|      | 201115          | SUSP ASSY A/R 330D-1-102 SLA                       | --   |
|      | 201117          | SUSP ASSY A/R 330D-1-102 LLA                       | --   |
| 1    | 1-510-010001    | NUT, 3/8-16 UNC FLANGE LOCK                        | 10   |
| 2    | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                             | 10   |
| 3    | 1-654-010032-4  | SCREW 3/4-10X1-3/4 HX CP ZPG8                      | 8    |
| 4    | 1-654-010051-13 | SCREW,HX CP,3/8-16UNCX3,GR5                        | 8    |
| 5    | 1-654-010158-1  | SCREW,RHD,SQ NCK,1/4-20UNCX3/4                     | 10   |
| 6    | 1-796-010004-02 | TIE, STRAP, PLASTIC, .301X13.38 <b>(NOT SHOWN)</b> | 6    |
| 7    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                                 | 10   |
| 8    | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                           | 8    |
| 9    | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                          | 1    |
| 10   | 1-861-010034-17 | WASHER,LKG,HLCL SPR,3/4                            | 4    |
| 11   | 103055          | PLACARD, ENERGY BUMPER CERT                        | 1    |
| 12   | 103056          | DECAL, ENERGY BUMPER WARNING                       | 1    |
| 13   | 104034          | NUT, HEX 2-12UN, GRB, ZP                           | 4    |
| 14   | 119580          | BUMPER WLDMT 660 TUBE W/EP                         | 1    |
| 14   | 121369          | BUMPER WLDMT 317/660 CAN                           | 1    |
| 14   | 133777          | BUMPER WLDMT 10 FT WIDE W/EP                       | 1    |
| 15   | 184138          | RIVET, BLIND, .187X3/16 GRIP                       | 2    |
| 16   | 189314          | SUPPORT, E-CHAIN,48 LINKS,3838                     | 1    |
| 16   | 189316          | SUPPORT, E-CHAIN,34 LINKS,3838                     | 1    |
| 17   | 190700ZP        | ZINC PLATE BRACKET E-CHAIN LH                      | 1    |
| 18   | 190701          | BRACKET WLDMT E-CHAIN LH                           | 1    |
| 19   | 190705ZP        | ZINC PLATE BRACKET E-CHAIN RH                      | 1    |
| 20   | 190706          | BRACKET WLDMT E-CHAIN RH                           | 1    |
| 21   | #242 LOCKTITE   | LOCKTITE 242 BLUE REMOVABLE                        | .02  |
| 22   | 3-076-010005    | CAM FOLLOWER 4 IN DIA                              | 4    |
| 23   | 3-485-010001    | FLAP, MUD 21 IN                                    | 2    |
| 24   | 3-573-010031    | DECAL TRAILER BUMPER                               | 1    |
| 25   | 3-573-010377    | DECAL,2"REFLEXITE TAPE,RD/WHT                      | 84   |
| 26   | 3-762-010016    | HOLD DOWN UNDERCARRIAGE WLDMT                      | 4    |
| 27   | 3-762-010017    | CLAMP MUD FLAP                                     | 2    |
| 28   | 3-821-010005    | TRAY, CAT-TRACK                                    | 1    |
| 29   | 622-3511-008    | WASHER, FLAT 3/4 MIL-CARB SAE                      | 4    |
| 30   | 2-181-010001    | HOSE CLAMP                                         | 2    |

## Wheels

IMPORTANT: IF ORDERING TIRE ASSEMBLIES OR REPLACEMENT WHEELS, PROVIDE THE DEALER WITH THE TRAILER VIN NUMBER TO PROPERLY IDENTIFY ORIGINAL PARTS.

MAIN CHARACTERISTICS TABLE:

| ITEM | WHEEL       | STUDS | BOLT PATTERN      | HUB BORE        | OFFSET |
|------|-------------|-------|-------------------|-----------------|--------|
| 1    | 17.5 X 6.75 | 8     | 10.827 (275 MM)   | 8.70 (221.1 MM) | 5.55   |
| 2    | 17.5 X 6.75 | 8     | 10.827 (275 MM)   | 9.00 (228.6 MM) | 5.60   |
| 3    | 22.5 X 7.50 | 10    | 11.25 (285.75 MM) | 8.66 (220 MM)   | 6.45   |
| 4    | 22.5 X 7.50 | 10    | 11.25 (285.75 MM) | 8.78 (223 MM)   | 6.44   |
| 5    | 22.5 X 8.25 | 10    | 11.25 (285.75 MM) | 8.66 (220 MM)   | 6.59   |
| 6    | 22.5 X 8.25 | 10    | 11.25 (285.75 MM) | 8.66 (220 MM)   | 6.60   |
| 7    | 22.5 X 8.25 | 10    | 11.25 (285.75 MM) | 8.66 (220 MM)   | 6.62   |



8 ACCENT HOLE WHEEL SHOWN AS REFERENCE:

NOT SHOWN: #8 VALVE STEM EXTENSION (OPTION)

Figure 3-22: Wheels

## Wheels

| ITEM | PART NUMBER  | DESCRIPTION                                                                                                       | QTY |
|------|--------------|-------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 100402       | WHEEL POL ALUM PILOT17.5X6.75 (USES TR-553C VALVE STEM)<br>(8 ACCENT HOLES, POLISHED, ALUMINUM) (ALCOA, ACCURIDE) | 1   |
| 1    | 112047       | WHEEL AL PILOT 17.5X6.75 MACH (USES 100401 VALVE STEM)<br>(8 ACCENT HOLES, MACHINED, ALUMINUM)                    | 1   |
| 1    | 232809       | WHEEL AL PILOT 17.5X6.75 (POL) (USES 238615 VALVE STEM)<br>(8 ACCENT HOLES, POLISHED, ALUMINUM) (FLEETSIDE)       | 1   |
| 1    | 223938       | WHEEL AL PILOT 17.5X6.75 POL (USES 236462 VALVE STEM)<br>(10 ACCENT HOLES, POLISHED, ALUMINUM) (FLEETSIDE)        | 1   |
| 2    | 224322       | WHEEL AL PLT MT 17.5X6.75 D-BT (USES 100401 VALVE STEM)<br>(8 ACCENT HOLES, POLISHED, ALUMINUM) (DURA-BRIGHT)     | 1   |
| 2    | 230730       | WHEEL DISC PLT MNT 17.5X6.75 (USES TR500 VALVE STEM)<br>(4 HAND HOLES, PAINTED BLACK, STEEL)                      | 1   |
| 2    | 3-870-010097 | WHEEL,DISC,PILOT MT 17.5X6.75 (USES TR500 VALVE STEM)<br>(4 ACCENT HOLES, PAINTED WHITE, STEEL)                   | 1   |
| 3    | 139600       | WHEEL,AL DURA BRITE255/70R (USES TR545D VALVE STEM)<br>(10 ACCENT HOLES, POLISHED, ALUMINUM)                      | 1   |
| 3    | 3-870-010106 | WHEEL,AL,PILOT MT22.5X7.5POL (USES TR545D VALVE STEM)<br>(10 ACCENT HOLES, POLISHED, ALUMINUM)                    | 1   |
| 3    | 3-870-010116 | WHL,ALM,PLT MT 22.5X7.50 (USES TR545D VALVE STEM)<br>(10 ACCENT HOLES, UNPOLISHED, ALUMINUM)                      | 1   |
| 4    | 3-870-010104 | WHEEL,DISC PILOT MT 22.5X7.50 (USES TR500 VALVE STEM)<br>(5 ACCENT HOLES, PAINTED WHITE, STEEL)                   | 1   |
| 5    | 111416       | WHEEL ALUM PLT 22.5X8.25 POL (USES TR545D VALVE STEM)<br>(8 ACCENT HOLES, POLISHED, ALUMINUM)                     | 1   |
| 5    | 111417       | WHEEL,ALUM,PLT 22.5X8.25 MACH (USES TR545D VALVE STEM)<br>(8 ACCENT HOLES, MACHINED ALUMINUM)                     | 1   |
| 5    | 134757       | WHEEL AL PLT22.5X8.25 POL CTG (USES TR545D VALVE STEM)<br>(8 ACCENT HOLES, POLISHED COATING, ALUMINUM)            | 1   |
| 6    | 150346       | WHEEL,ALUM,DURA-BRT22.5X8.25 (USES TR545D VALVE STEM)<br>(8 ACCENT HOLES, POLISHED, ALUMINUM)                     | 1   |
| 7    | 111652       | WHEEL,PILOT MT 22.5X8.25, PP (USES TR573D VALVE STEM)<br>(10 HAND HOLES, SPECIFY BLACK OR SILVER STEEL)           | 1   |
| 7    | 3-870-010110 | WHEEL,DISC,PILOT MT 22.5X8.25 (USES TR573 VALVE STEM)<br>(5 ACCENT HOLE, PAINTED WHITE, STEEL)                    | 1   |
| 8    | 1-843-010014 | VALVE EXTENSION,STEM (OPTIONAL, RIGID STRAIGHT 3" LONG,<br>NOT USED WITH TIRE INFLATION SYSTEMS) (NOT SHOWN)      | 1   |

# Bulkhead Assembly

## Bulkhead, 2 Position (OPTION)

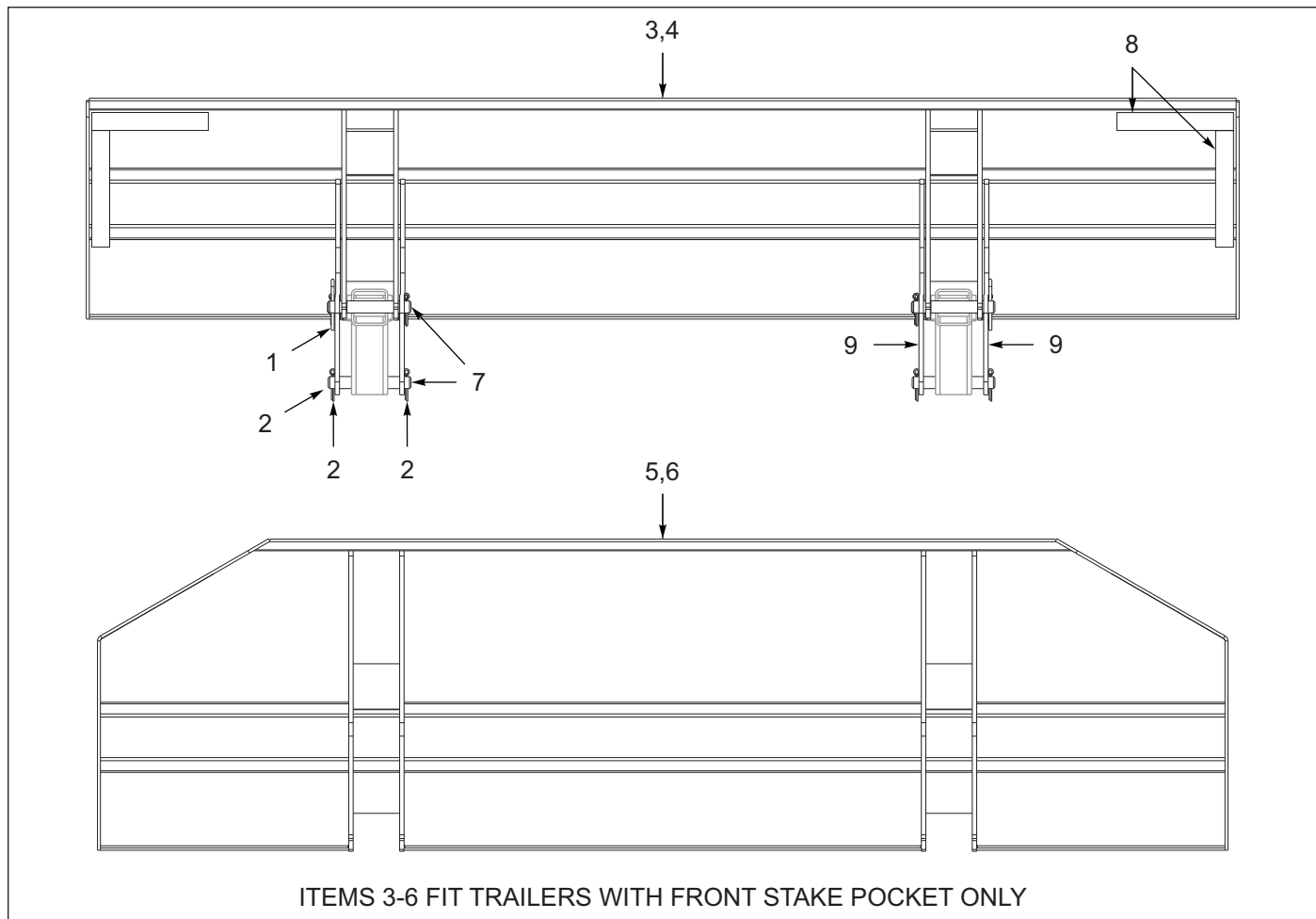


Figure 4-1: Bulkhead, 2 Position (OPTION)

## Bulkhead, 2 Position (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                        | QTY. |
|------|-----------------|----------------------------------------------------|------|
|      | 3-141-010123-1  | BULKHEAD INSTL 16X96/2 POSN                        | --   |
|      | 3-141-010123-2  | BULKHEAD INSTL 16X102/2 POSN                       | --   |
|      | 3-141-010123-3  | BULKHEAD INSTL 16/24X96 2POS                       | --   |
|      | 3-141-010123-4  | BULKHEAD INSTL 16X24 2POSN                         | --   |
| 1    | 1-557-010014    | PIN, HAIR 1/4 DIA                                  | 2    |
| 2    | 1-557-010362-63 | PIN,COTTER 1/4X2 ZP                                | 10   |
| 3    | 3-141-010118    | BULKHEAD WLDMT 16X96 (FOR 3-144-010123-1)          | 1    |
| 4    | 3-141-010119    | BULKHEAD WLDMT 16X102 (FOR 3-144-010123-2)         | 1    |
| 5    | 3-141-010147    | BULKHEAD WLDMT 16/24X102 2POS (FOR 3-144-010123-4) | 1    |
| 6    | 3-141-010151    | BULKHEAD WLDMT 16/24X96 2POSN (FOR 3-144-010123-3) | 1    |
| 7    | 3-557-010380    | PIN, SUPPORT BULKHEAD                              | 6    |
| 8    | 3-573-010378    | DECAL,2"REFLEXITE TAPE,WHITE                       | 4    |
| 9    | 3-755-010080    | SUPPORT WLDMT, BULKHEAD                            | 2    |

[illegible]



## Rack, Spare Tire (OPTION)

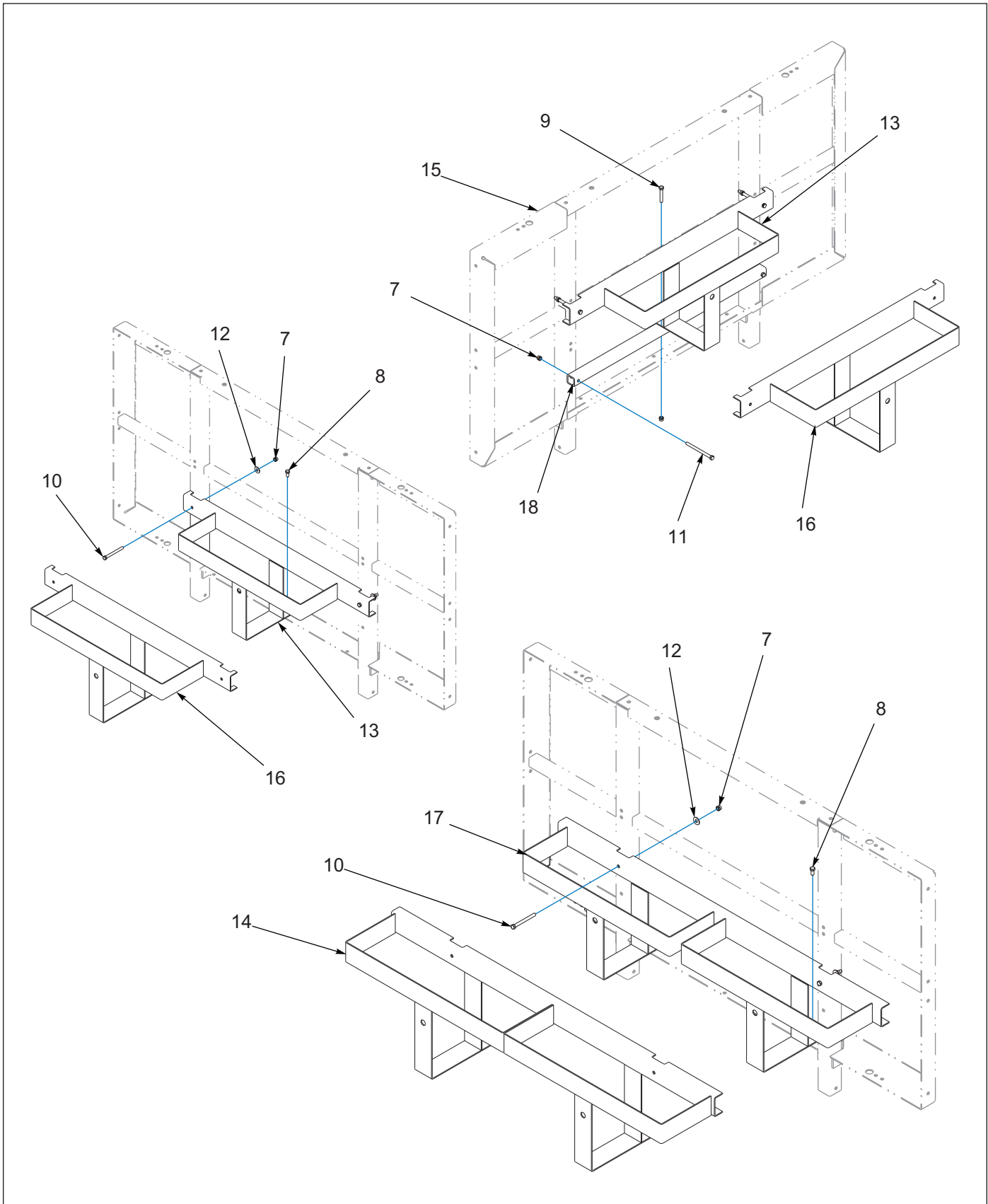


Figure 4-2: Rack, Spare Tire (OPTION)

## Rack, Spare Tire (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                 | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------------------------|-----|
| 1    | 3-612-010015-1  | RACK INSTL BHD BLK FRT MT 10R (SINGLE FRT MT 10R17.5)<br>(INCLUDES ITEMS 7-8, 10, 12, 16, 18)               | --  |
| 2    | 3-612-010015-2  | RACK INSTL BHD BLK RR MT 10R (SINGLE REAR MT 10R17.5)<br>(INCLUDES ITEMS 7, 9, 11, 16, 18)                  | --  |
| 3    | 3-612-010015-3  | RACK INSTL BHD BLK FRT (2) 10R (DOUBLE FRT MT 10R17.5)<br>(INCLUDES ITEMS 1-2, 4, 6, 11)                    | --  |
| 4    | 112986          | RACK INSTL BHD BLK FRT MT 255 (SINGLE FRT MT 255/70R22.5)<br>(INCLUDES ITEMS 1-2, 4, 6, 7)                  | --  |
| 5    | 185878          | RACK INSTL BHD BLK RR MT 255 (SINGLE REAR MT 255/70R22.5)<br>(INCLUDES ITEMS 1, 3, 5, 7, 12)                | --  |
| 6    | 129573          | RACK INSTL BHD BLK FRT (2) 255 (DOUBLE FRT MT 255/70R22.5)<br>(INCLUDES ITEMS 1-2, 4, 6, 8)                 | --  |
| 7    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB<br>(ITEM 1, 4, REQ 3 EACH)<br>(ITEM 2, 5, REQ 5 EACH)<br>(ITEM 3, 6, REQ 4 EACH) | --  |
| 8    | 1-654-010055-01 | SCR,HX CP 1/2-13UNCX1 GR5<br>(ITEM 1, 4, REQ 1 EACH)<br>(ITEM 3, 6, REQ 2 EACH)                             | --  |
| 9    | 1-654-010055-09 | SCREW,HX CP,1/2-13UNCX3 GR5 (ITEM 2, 5, REQ 1 EACH)                                                         | --  |
| 10   | 1-654-010055-15 | SCR, HX CP, 1/2-13UNCX5 GR5 (ITEM 1, 3, 4, 6, REQ 2 EACH)                                                   | --  |
| 11   | 1-654-010055-18 | SCREW HX CP,1/2-13UNCX6-1/2G5 (ITEM 2, 5, REQ 4 EACH)                                                       | --  |
| 12   | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD (ITEM 1, 3, 4, 6, REQ 2 EACH)                                                      | --  |
| 13   | 112987          | RACK WLDMT,BHD MT/255/70R22.5 (ITEM 4, 5, REQ 1 EACH)                                                       | --  |
| 14   | 129572          | RACK WLDMT,BLKHD MT(2)255-22C (ITEM 6, REQ 1 EACH)                                                          | --  |
| 15   | 3-141-010120    | BULKHEAD WLDMT 48X96                                                                                        | --  |
| 16   | 3-612-010016    | RACK WLDMT,BLKHD MT/10R17.5 (ITEMS 1-2, REQ 1 EACH)                                                         | --  |
| 17   | 3-612-010020    | RACK WLDMT,BLKHD MT/210R17.5 (ITEM 3, REQ 1 EACH)                                                           | --  |
| 18   | 3-829-010337    | TUBE W/TAB MT BLKHD SPARE RCK (ITEM 2, 5 REQ 1 EACH)                                                        | --  |

# Landing Gear Assembly

## Landing Legs, Gear, 2 Spd, Flip Crank, Low Mt Plate

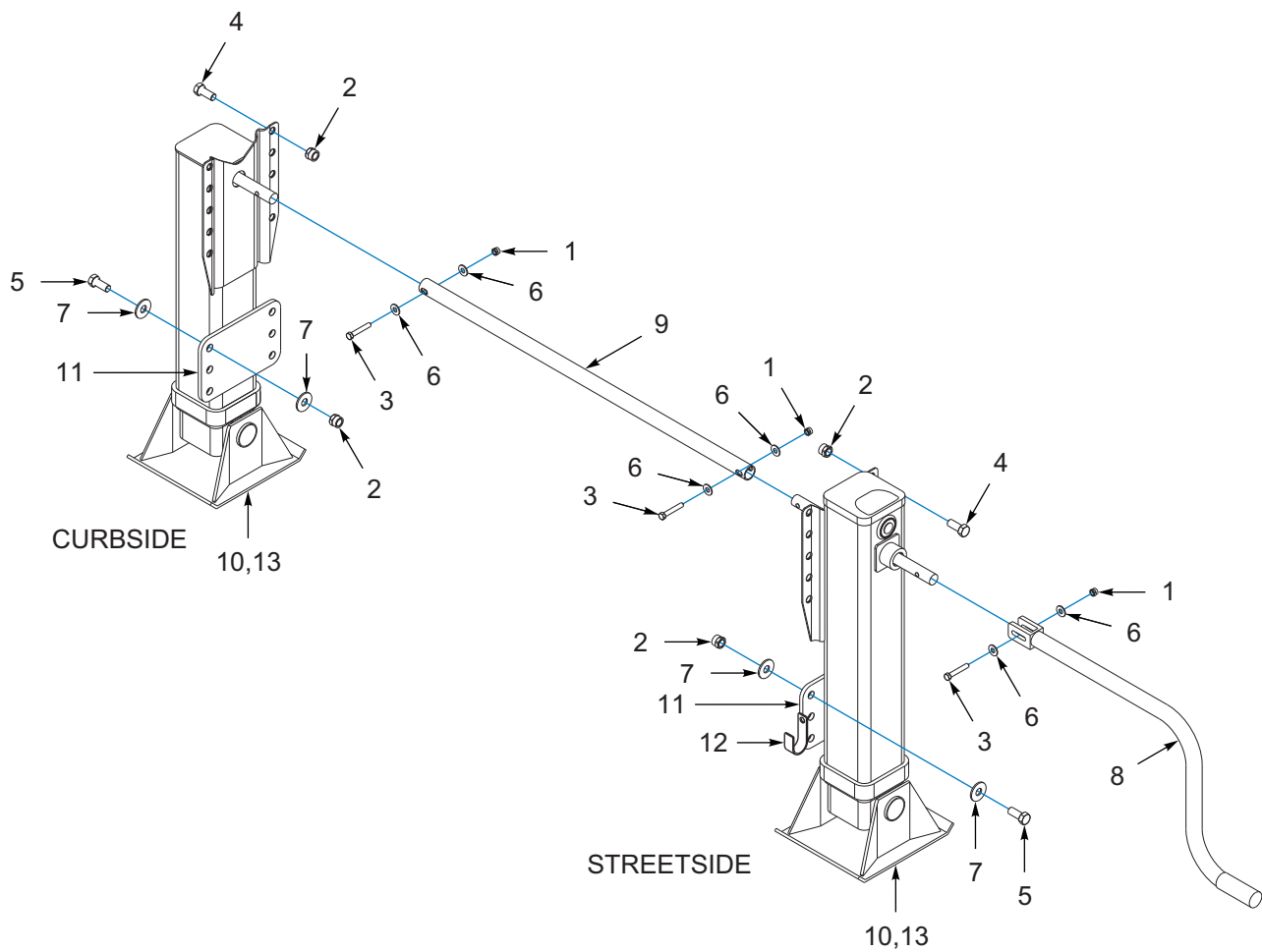


Figure 5-1: Landing Legs, Gear, 2 Spd, Flip Crank, Low Mt Plate

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## Landing Legs, Gear, 2 Spd, Flip Crank, Low Mt Plate

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                       | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|------|
|      | 147955          | LANDING GEAR INST-JOST 330HP ( <b>HIGH PROFILE TRAILERS</b> )                                                                     | - -  |
|      | 147954          | LANDING GEAR INST-JOST 330LP ( <b>LOW PROFILE TRAILERS</b> )                                                                      | - -  |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                                       | 3    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                                         | 24   |
| 3    | 1-654-010051-10 | SCREW,HX CP3/8-16X2-1/4 GR5                                                                                                       | 3    |
| 4    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5                                                                                                     | 20   |
| 5    | 1-654-010059-04 | SCREW,HEX CAP 5/8-11X1-3/4 G5                                                                                                     | 4    |
| 6    | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                                          | 6    |
| 7    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                                                                                                          | 8    |
| 8    | 109710          | CRANK #C10592-4 17-3/4                                                                                                            | 1    |
| 9    | 113883          | CROSS-SHAFT LANDING GEAR 330 ( <b>44-1/4</b> )                                                                                    | 1    |
| 10   | 147948          | LANDING GEAR 2-SPEED JOST UNV<br>( <b>SET INCLUDES ITEMS 11-13</b> )                                                              | 1    |
| 11   | 147947          | ANCHOR,BTM LANDING GEAR UNV ( <b>INCLUDED WITH ITEM 10</b> )                                                                      | 2    |
| 12   | 117559          | CLIP LDG GEAR HANDLE ( <b>INCLUDED WITH ITEM 10</b> )                                                                             | 1    |
| 13   | 109709          | 2-SP LANDING GEAR JOST ( <b>LEFT / RIGHT LEGS ONLY</b> )<br>( <b>INCLUDED WITH ITEM 10</b> ) ( <b>COMPONENTS - SEE PAGE 5-7</b> ) | 1    |

## Landing Legs, Gear, 2 Spd, Flip Crank, Rear Low Mt Bkt

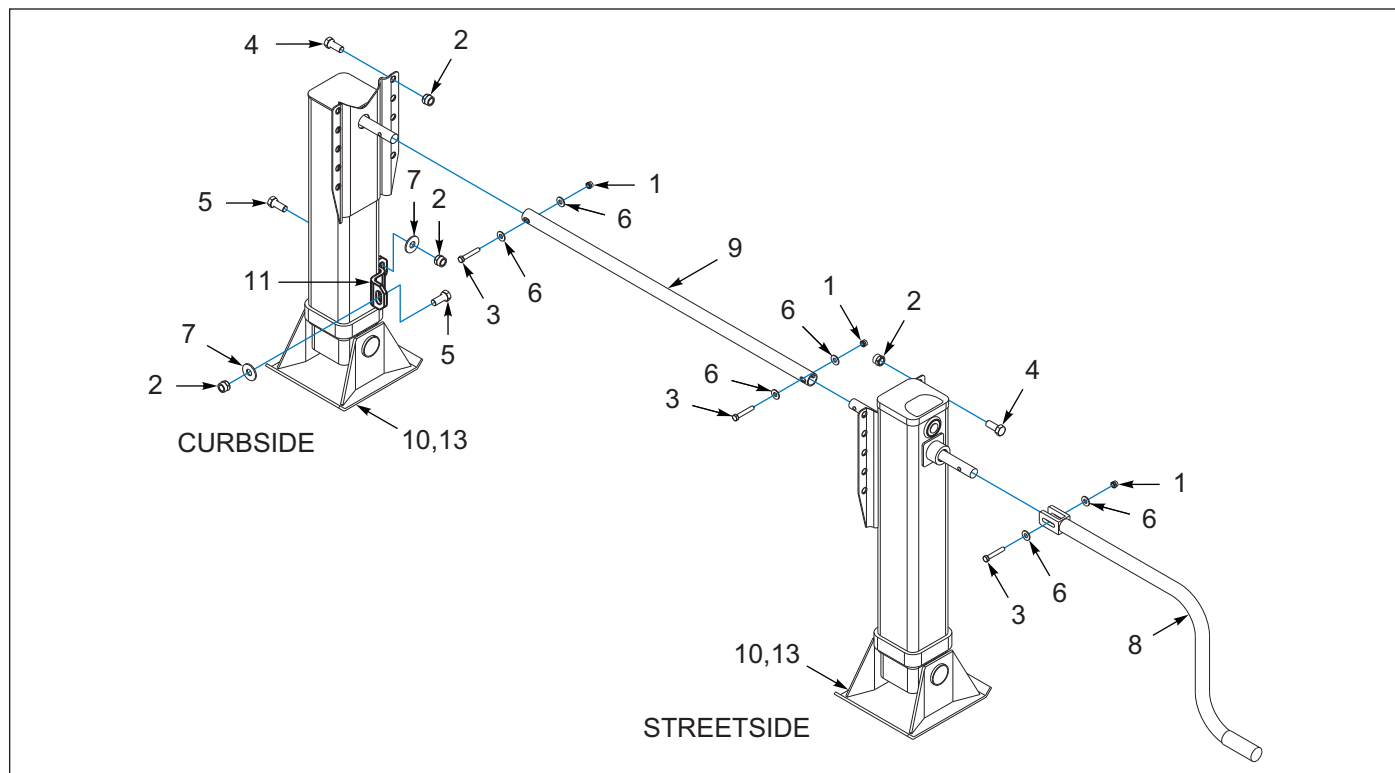
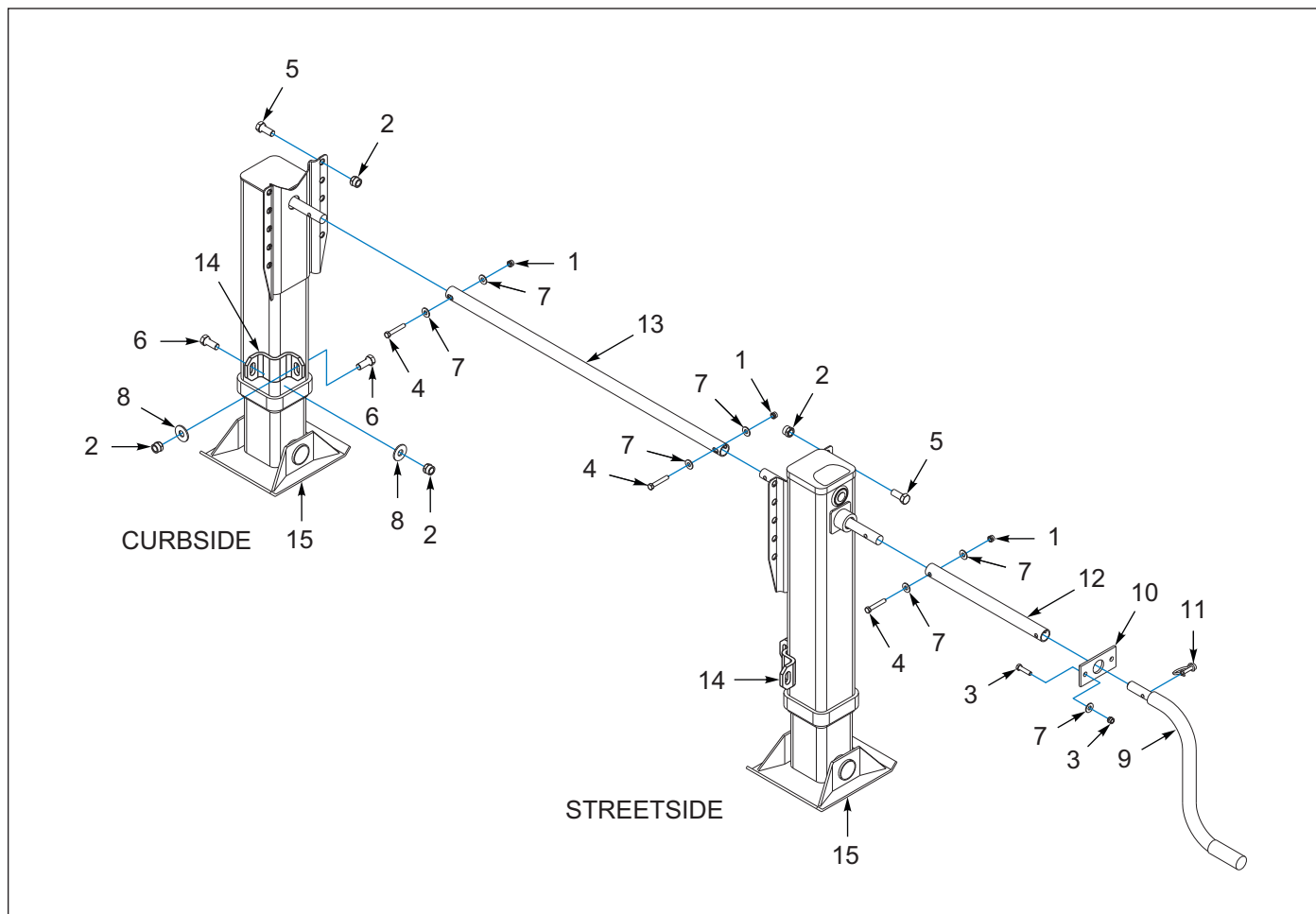


Figure 5-2: Landing Legs, Gear, 2 Spd, Flip Crank, Rear Low Mt Bkt

## Landing Legs, Gear, 2 Spd, Flip Crank, Rear Low Mt Bkt

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                          | QTY. |
|------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 112573          | LANDING GEAR INSTL JOST 330 (10X10X4-1/2 SHOES)                                                                                      | --   |
|      | 159683          | LANDING GEAR W/SS JOST 330FLT (10X10X2 SHOES)                                                                                        | --   |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                                          | 3    |
| 2    | 1-512-010005-13 | NUT, HEX, SLFLKG GRB 5/8-11                                                                                                          | 20   |
| 3    | 1-654-010051-10 | SCREW, HX CP3/8-16X2-1/4 GR5                                                                                                         | 3    |
| 4    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5                                                                                                        | 16   |
| 5    | 1-654-010059-04 | SCREW, HEX CAP 5/8-11X1-3/4 G5                                                                                                       | 4    |
| 6    | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                                             | 6    |
| 7    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                                                                                                             | 4    |
| 8    | 109710          | CRANK #C10592-4 17-3/4                                                                                                               | 1    |
| 9    | 113883          | CROSS-SHAFT LANDING GEAR 330 (44-1/4)                                                                                                | 1    |
| 10   | 194880          | LANDING GEAR WLDMT 2SP 317 (10X10X4-1/2 SHOES)<br>(10A SET INCLUDES ITEMS 11-12A)                                                    | 1    |
| 10   | 194881          | LANDING GEAR WLDMT 2SP 330 (10X10X2 SHOES)<br>(10B SET INCLUDES ITEM 11-12B)                                                         | --   |
| 11   | 104238          | ANCHOR, LWR, BOLT-ON PARK STAND (109712)<br>(INCLUDED WITH ITEM 10)                                                                  | 2    |
| 12   | 109709          | 2-SP LANDING GEAR JOST<br>(12A LEFT / RIGHT LEGS, 10X10X4-1/2 SHOES ONLY)<br>(INCLUDED WITH ITEM 10A) (COMPONENTS - SEE PAGE 5-7)    | 1    |
| 12   | 136470          | LANDING GEAR 2-SPEED JOSTW/SS<br>(12B LEFT / RIGHT LEGS, 10X10X2 SHOES ONLY)<br>(INCLUDED WITH ITEM 10B) (COMPONENTS - SEE PAGE 5-7) | 1    |

## Landing Legs, Gear, 2 Spd, Pin Crank, Front Low Mt Bkt



**Figure 5-3: Landing Legs, Gear, 2 Spd, Pin Crank, Front Low Mt Bkt**

## Landing Legs, Gear, 2 Spd, Pin Crank, Front Low Mt Bkt

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                | QTY. |
|------|-----------------|------------------------------------------------------------------------------------------------------------|------|
|      | 136471          | LANDING GEAR W/SS JOST 330D/D (DROP DECK)                                                                  | --   |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                | 5    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                  | 20   |
| 3    | 1-654-010051-07 | SCREW,HEX CAP,3/8-16UNCX1-1/2                                                                              | 2    |
| 4    | 1-654-010051-10 | SCREW,HX CP3/8-16X2-1/4 GR5                                                                                | 3    |
| 5    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5                                                                              | 16   |
| 6    | 1-654-010059-04 | SCREW,HEX CAP 5/8-11X1-3/4 G5                                                                              | 4    |
| 7    | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                   | 8    |
| 8    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                                                                                   | 4    |
| 9    | 109161          | HANDLE W/LDMT CRANK MOD                                                                                    | 1    |
| 10   | 111695          | GUIDE,HANDLE,JOST GEAR,660                                                                                 | 1    |
| 11   | 111859          | PIN, 5/16X1-1/2,RD LOCKING                                                                                 | 1    |
| 12   | 113888          | TUBE,RD,EXTENSION 330 (14-1/2)                                                                             | 1    |
| 13   | 113883          | CROSS-SHAFT LANDING GEAR 330 (44-1/4)                                                                      | 1    |
| 14   | 104238          | ANCHOR,LWR,BOLT-ON PARK STAND (109712)                                                                     | 2    |
| 15   | 136470          | LANDING GEAR 2-SPEED JOSTW/SS (LEFT / RIGHT LEGS ONLY, REQ ITEM 14, 1 PER LEG) (COMPONENTS - SEE PAGE 5-7) | 1    |

## Landing Legs, Gear, 2 Spd, Pin Crank, Rear Low Mt Bkt

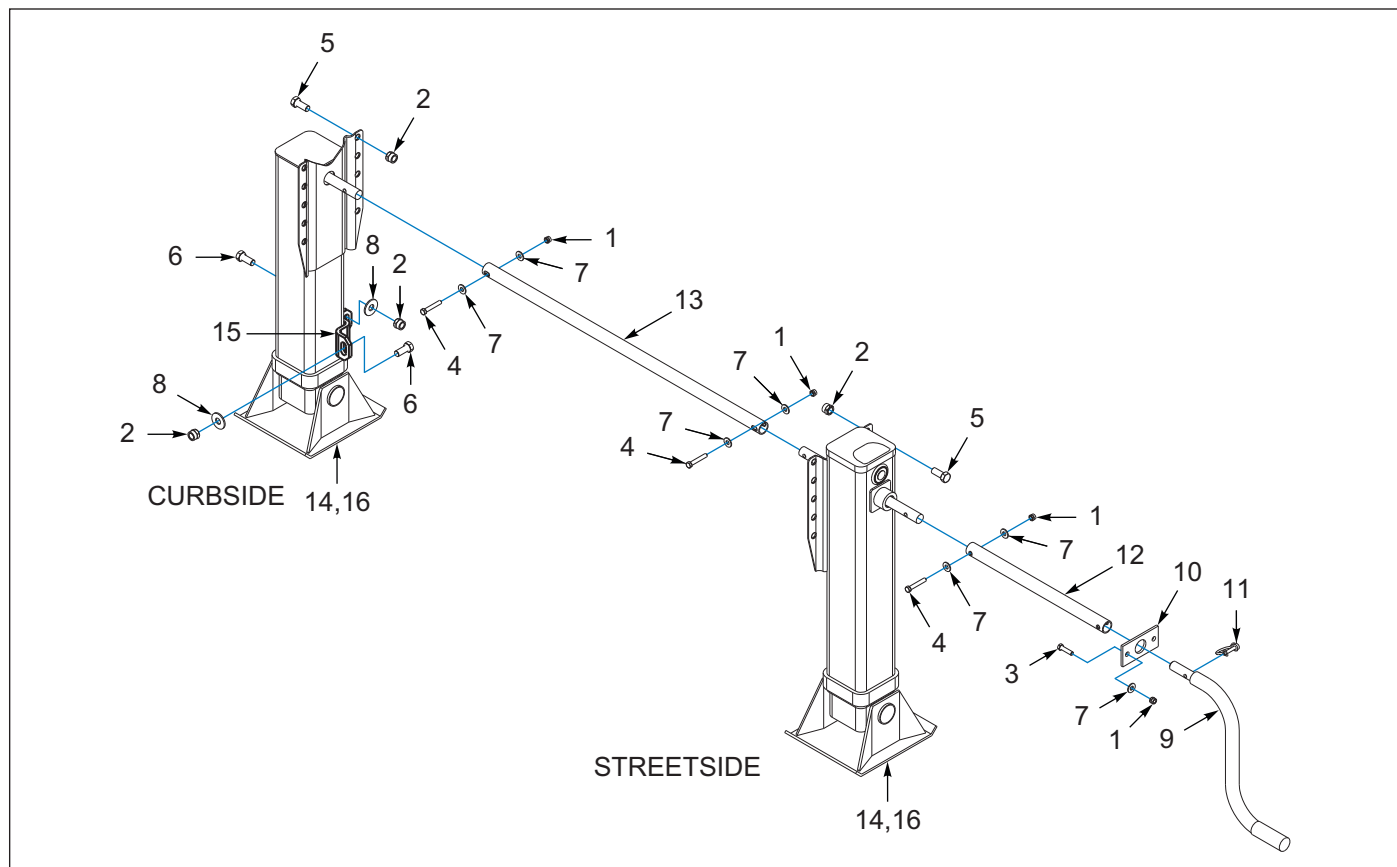


Figure 5-4: Landing Legs, Gear, 2 Spd, Pin Crank, Rear Low Mt Bkt

## Landing Legs, Gear, 2 Spd, Pin Crank, Rear Low Mt Bkt

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                          | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------|------|
|      | 113887          | LANDING GEAR JOST 330-DRP DK <b>(DROP DECK)</b>                                                                      | --   |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                          | 5    |
| 2    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                                                            | 20   |
| 3    | 1-654-010051-07 | SCREW,HEX CAP,3/8-16UNCX1-1/2                                                                                        | 2    |
| 4    | 1-654-010051-10 | SCREW,HX CP3/8-16X2-1/4 GR5                                                                                          | 3    |
| 5    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5                                                                                        | 16   |
| 6    | 1-654-010059-04 | SCREW,HEX CAP 5/8-11X1-3/4 G5                                                                                        | 4    |
| 7    | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                             | 8    |
| 8    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                                                                                             | 4    |
| 9    | 109161          | HANDLE WLDMT CRANK MOD                                                                                               | 1    |
| 10   | 111695          | GUIDE,HANDLE,JOST GEAR,660                                                                                           | 1    |
| 11   | 111859          | PIN, 5/16X1-1/2,RD LOCKING                                                                                           | 1    |
| 12   | 113888          | TUBE,RD,EXTENSION 330 <b>(14-1/2)</b>                                                                                | 1    |
| 13   | 113883          | CROSS-SHAFT LANDING GEAR 330 <b>(44-1/4)</b>                                                                         | 1    |
| 14   | 194880          | LANDING GEAR WLDMT 2SP 317<br><b>(SET INCLUDES ITEM 15-16)</b>                                                       | 1    |
| 15   | 104238          | ANCHOR,LWR,BOLT-ON PARK STAND <b>(109712)</b><br><b>(INCLUDED WITH ITEM 14)</b>                                      | 2    |
| 16   | 109709          | 2-SP LANDING GEAR JOST <b>(LEFT / RIGHT LEGS ONLY)</b><br><b>(INCLUDED WITH ITEM 14) (COMPONENTS - SEE PAGE 5-7)</b> | 1    |

## Landing Legs, Pinned

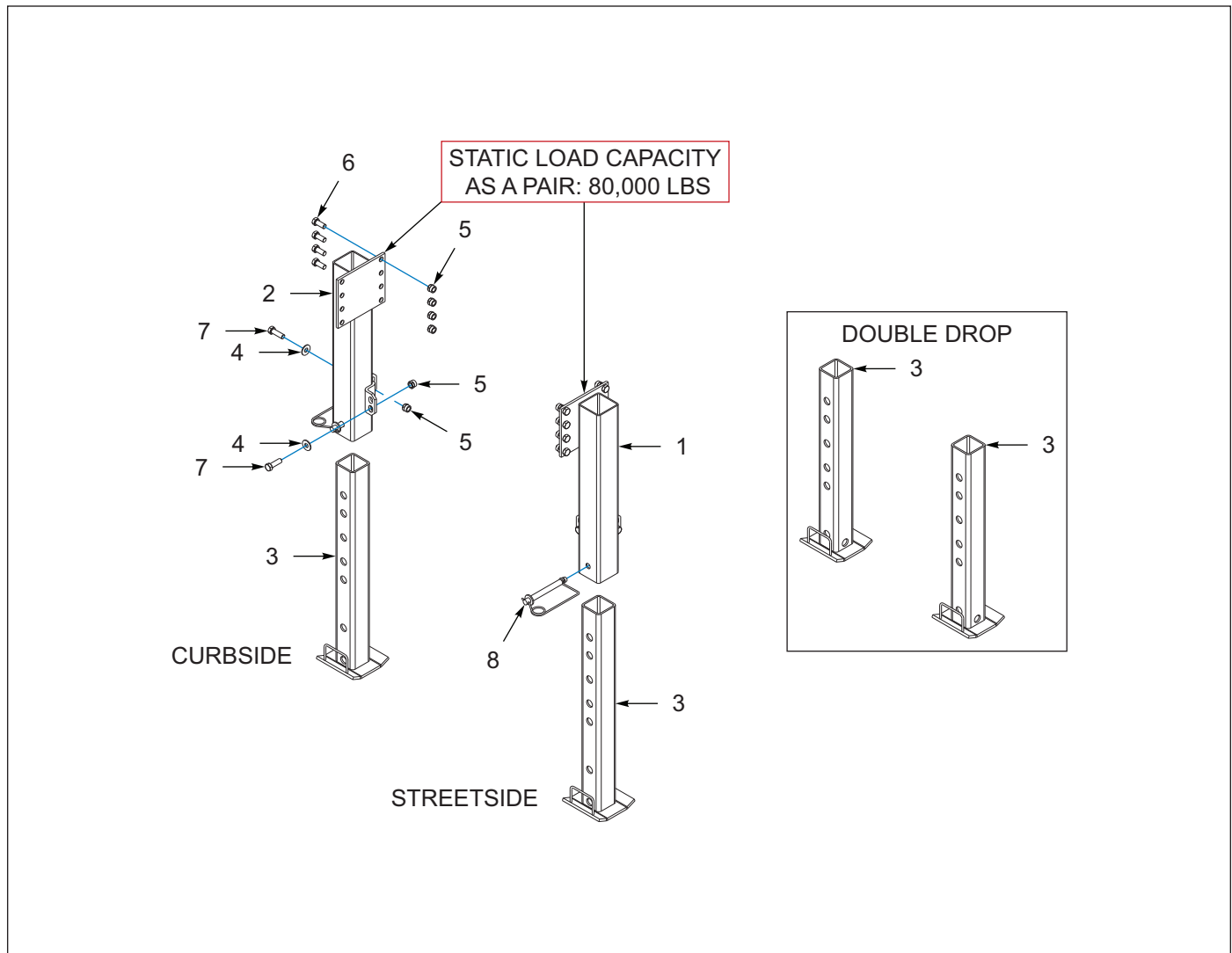


Figure 5-5: Landing Legs, Pinned

## Landing Legs, Pinned

| ITEM | PART NUMBER     | DESCRIPTION                                                                   | QTY. |
|------|-----------------|-------------------------------------------------------------------------------|------|
|      | 104243          | PARK STAND INSTL, PIN DROP (REQ ITEMS 1-3A, 4-8)<br>(LOAD CAPACITY 80,000LBS) | --   |
|      | 136491          | PARKING STAND,ASSY 330 D/D LP (REQ ITEMS 1-3B, 4-8)<br>(DOUBLE DROP ONLY)     | --   |
| 1    | 112678          | PARK STD WLDMT,LH FRONT PIN                                                   | 1    |
| 2    | 112679          | PARK STD WLDMT,RH FRONT PIN                                                   | 1    |
| 3    | 3-725-010058    | STAND, PARK INSIDE WLDMT (3A - 32-3/4 TUBE)                                   | 2    |
| 3    | 136490          | PARKING STAND,330 D/D LP (3B - 28-3/4 TUBE, DOUBLE DROP<br>TLR)               | 2    |
| 4    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                                                      | 4    |
| 5    | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                                                     | 20   |
| 6    | 1-654-010059-03 | SCREW 5/8-11UNCX1-1/2 HXCP G5                                                 | 16   |
| 7    | 1-654-010059-05 | SCREW,HEX CAP,5/8-11UNCX2 GR5                                                 | 4    |
| 8    | 346SL           | SNAP LOCK PIN 3/4" W/ WASHER                                                  | 2    |



# Landing Legs Components, Gear, 2 Spd

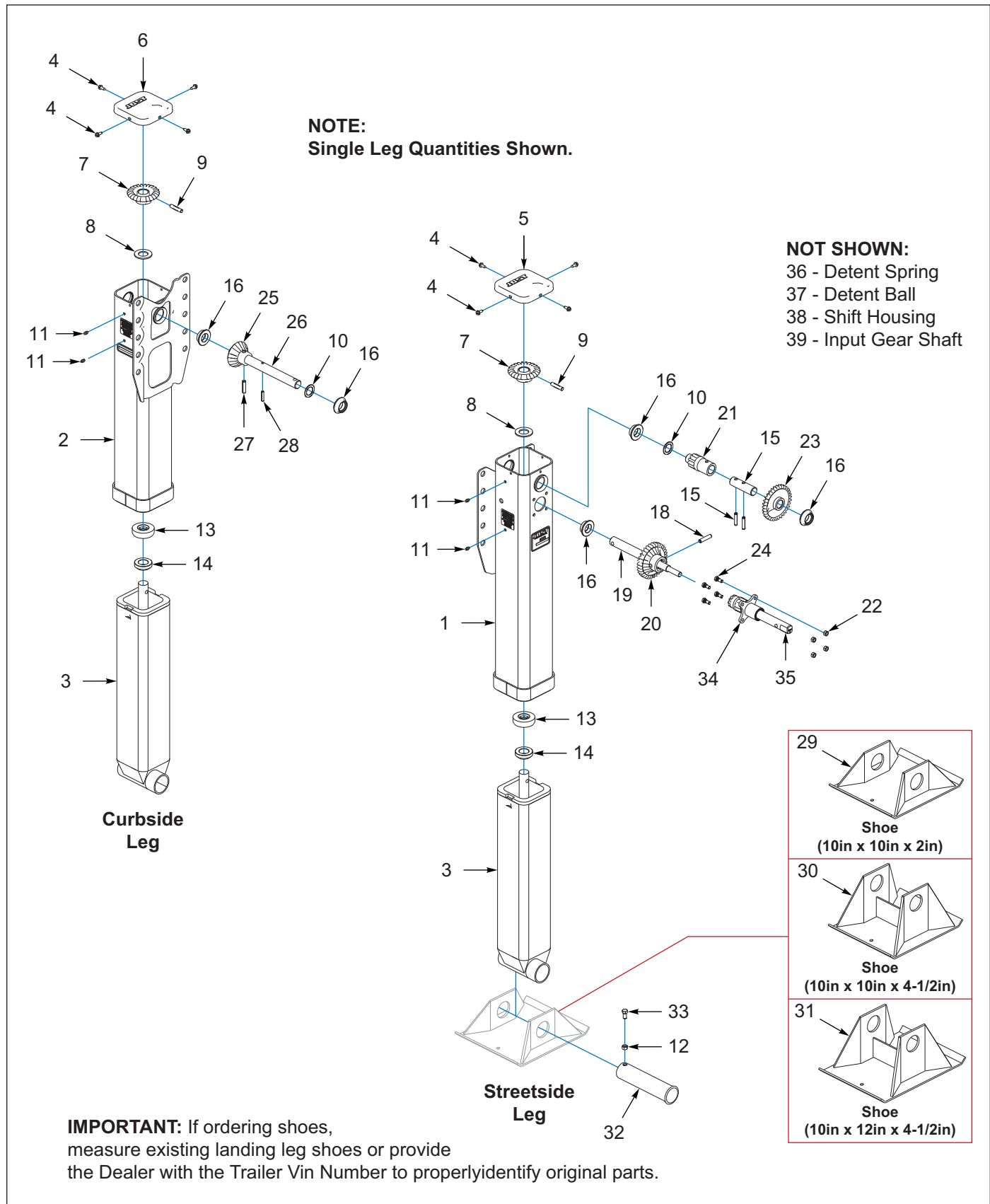


Figure 5-6: Landing Legs Components, Gear, 2 Spd

## Landing Legs Components, Gear, 2 Spd

| ITEM | PART NUMBER | DESCRIPTION                                                                 | QTY. |
|------|-------------|-----------------------------------------------------------------------------|------|
|      | 109709      | 2-SP LANDING GEAR JOST (17" TRAVEL, REQUIRES ITEM 30, SHOE 10 X 10 X 4-1/2) | --   |
| 1    | -----       | UPPER HOUSING, 2 SPEED (STREETSIDE)                                         | 1    |
| 2    | -----       | UPPER HOUSING, 1 SPEED (CURBSIDE)                                           | 1    |
| 3    | 165766      | INNER LANDING LEG (LOWER LEG ASSEMBLY)                                      | 1    |
| 4    | -----       | COVER SCREW                                                                 | 4    |
| 5    | -----       | COVER, 2 SPEED (STREETSIDE)                                                 | 1    |
| 6    | -----       | COVER, 1 SPEED (CURBSIDE)                                                   | 1    |
| 7    | -----       | BEVEL GEAR                                                                  | 1    |
| 8    | -----       | THRUST WASHER                                                               | 1    |
| 9    | -----       | GROOVED PIN                                                                 | 1    |
| 10   | -----       | SPACER WASHER                                                               | 1    |
| 11   | -----       | GREASE FITTING                                                              | 2    |
| 12   | A10038.7    | SELF LOCKING NUT                                                            | 1    |
| 13   | -----       | THRUST WASHER                                                               | 1    |
| 14   | -----       | COLLAR                                                                      | 1    |
| 15   | -----       | OUTPUT SHAFT                                                                | 1    |
| 16   | -----       | BUSHING (STREETSIDE REQ 3 EACH) (CURBSIDE REQ 2 EACH)                       | --   |
| 17   | -----       | SPIRAL PIN                                                                  | 2    |
| 18   | -----       | ROLL PIN 3/8 X 1-3/4                                                        | 1    |
| 19   | -----       | OUTPUT CLUSTER SHAFT                                                        | 1    |
| 20   | -----       | OUTPUT CLUSTER SHAFT GEAR                                                   | 1    |
| 21   | -----       | OUTPUT SPUR GEAR                                                            | 1    |
| 22   | -----       | SELF LOCKING NUT                                                            | 4    |
| 23   | -----       | INPUT SPUR GEAR                                                             | 1    |
| 24   | -----       | SHIFT HOUSING BOLT                                                          | 4    |
| 25   | -----       | PINION GEAR, 1 SPEED                                                        | 1    |
| 26   | -----       | PINION SHAFT, 1 SPEED                                                       | 1    |
| 27   | -----       | ROLL PIN 3/8 X 1-1/2                                                        | 1    |
| 28   | -----       | ROLL PIN 1/4 X 1-1/4                                                        | 1    |
| 29   | 129198      | SHOE, JOST, LOW PROFILE (10 IN X 10 IN X 2 IN)                              | 1    |
| 30   | 114529      | JOST C10035 SHOE FOR 109709 (10 IN X 10 IN X 4-1/2 IN)                      | 1    |
| 31   | C10256      | SAND SHOE (10 IN X 12 IN X 4-1/2 IN)                                        | 1    |
| 32   | 114983      | SHOE AXLE B10036 FOR 109709 (PIN)                                           | 1    |
| 33   | A10037.3    | HEX HEAD BOLT                                                               | 2    |
| 34   | 163502      | SHAFT HOUSING SERVICE KIT (KIT INCLUDES ITEMS 36-38)                        | 1    |
| 35   | 207360      | SHIFT HOUSING SERVICE KIT (KIT INCLUDES ITEMS 36-39)                        | 1    |
| 36   | -----       | DETENT SPRING (INCLUDED WITH ITEMS 34-35, NOT SHOWN)                        | 1    |
| 37   | -----       | DETENT BALL (INCLUDED WITH ITEMS 34-35, NOT SHOWN)                          | 2    |
| 38   | -----       | SHIFT HOUSING (INCLUDED WITH ITEMS 34-35, NOT SHOWN)                        | 1    |
| 39   | -----       | INPUT GEAR SHAFT (INCLUDED WITH ITEMS 35, NOT SHOWN)                        | 1    |

# Storage and Tie Down Assemblies

## Chain Assembly, Container Loading, 1 Chain

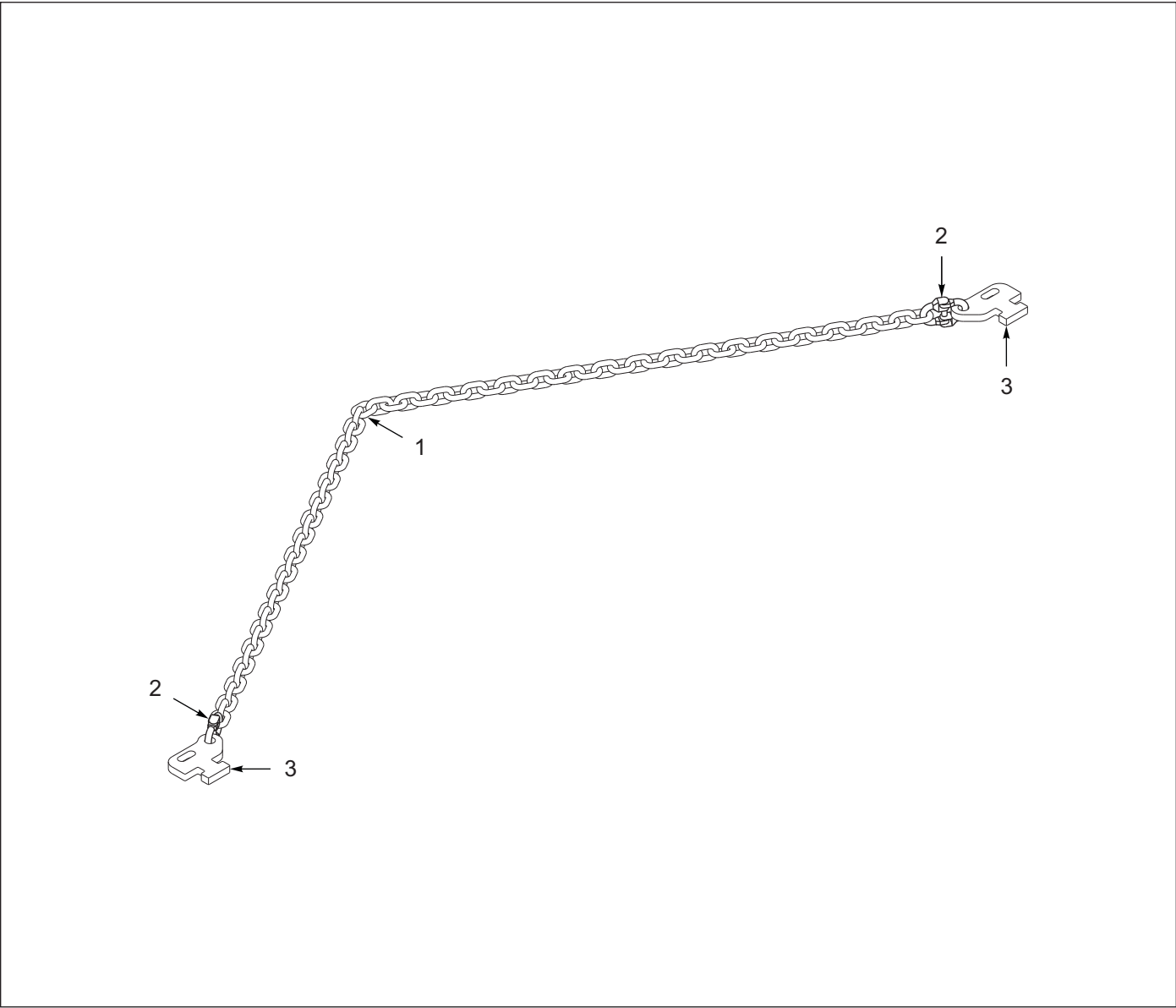


Figure 6-1: Chain Assembly, Container Loading, 1 Chain

## Chain Assembly, Container Loading, 1 Chain

| ITEM | PART NO.     | DESCRIPTION                    | QTY. |
|------|--------------|--------------------------------|------|
|      | 135316       | CHAIN ASSEMBLY, CONTAINER LOAD | --   |
| 1    | 159686       | CHAIN 1/2X87" GRD 7 52 LINKS   | 1    |
| 2    | 3-174-010038 | CHAIN LINK, CONNECTING 1/2     | 2    |
| 3    | 128480       | PLATE, CONTAINER CONNECT       | 2    |

## Chain Assembly, Container Loading, 3 Chain (OPTION)

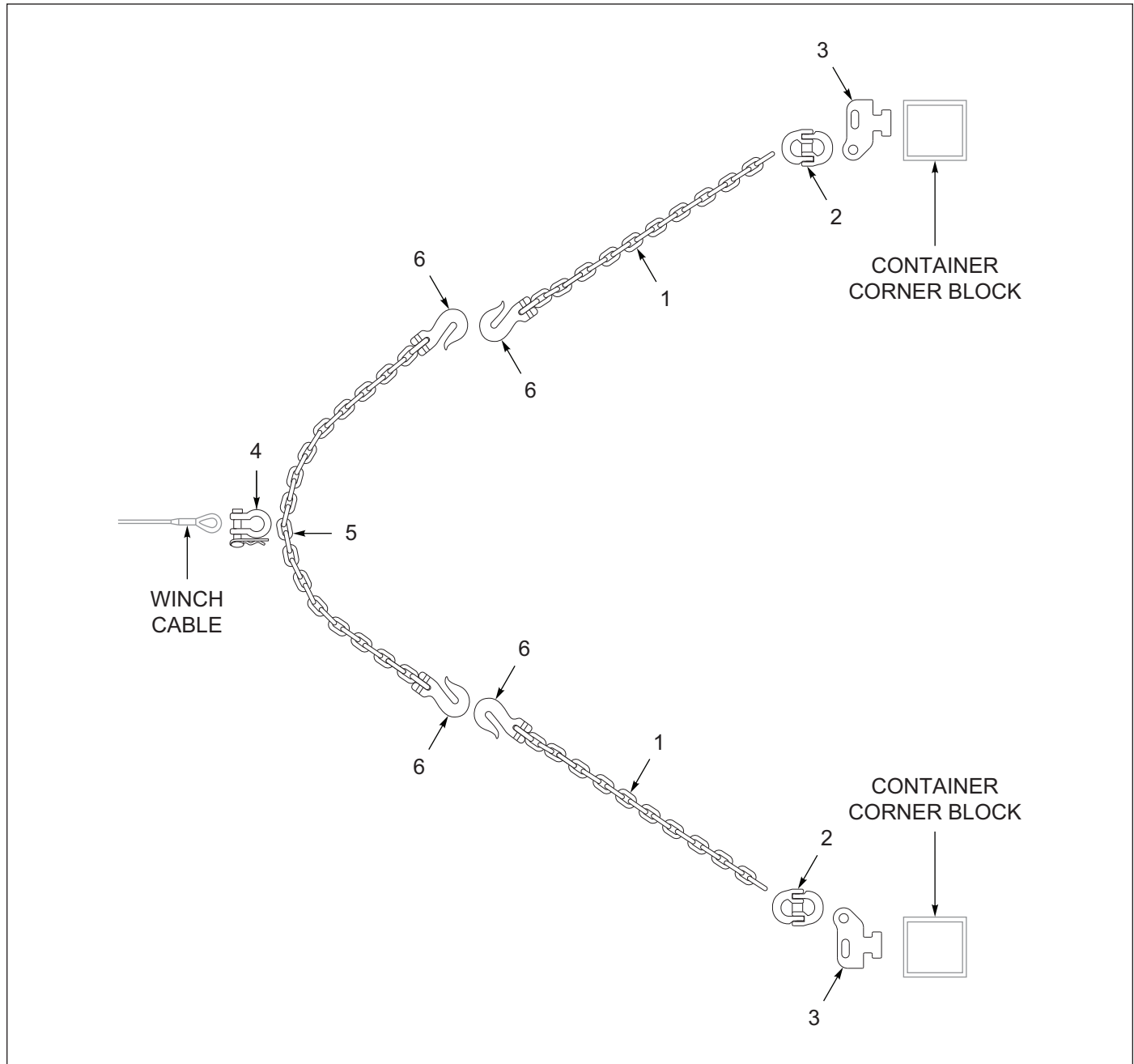


Figure 6-2: Chain Assembly, Container Loading, 3 Chain (OPTION)

## Chain Assembly, Container Loading, 3 Chain (OPTION)

| ITEM | PART NO.  | DESCRIPTION                   | QTY. |
|------|-----------|-------------------------------|------|
|      | 143267    | CONTAINER CHAIN/BRIDLE ASSY   | --   |
| 1    | 126888    | CHAIN 1/2 X 36 SPECTRUM 8 ZP  | 2    |
| 2    | 126889    | CHAIN CONNECTING LINK 1/2 GR8 | 2    |
| 3    | 128480    | PLATE, CONTAINER CONNECT, 340 | 2    |
| 4    | 137024    | SHACKLE 1IN SCREW PIN ANCHOR  | 1    |
| 5    | 143268    | CHAIN 1/2 X 53 GRD80 ZP       | 1    |
| 6    | 7HCGHT500 | HOOK CLEVIS GRAB 1/2 GR70     | 4    |

Chain Assembly, Single Hook

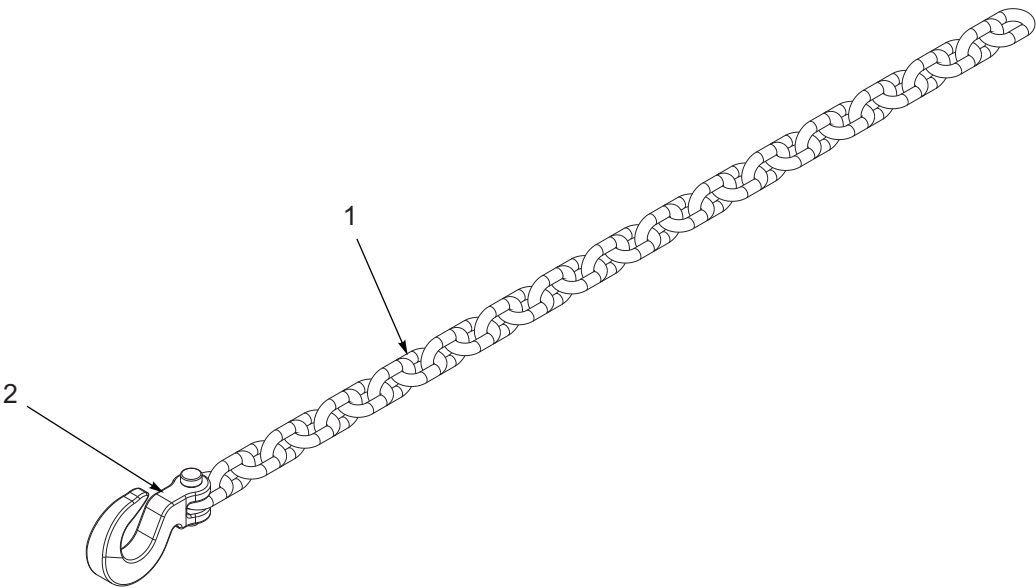


Figure 6-3: Chain Assembly, Single Hook

Chain Assembly, Single Hook

| ITEM | PART NO.  | DESCRIPTION                                    | QTY. |
|------|-----------|------------------------------------------------|------|
|      | 129938    | CHAIN AND HOOK ASSY (STANDARD FOR CHAIN DRIVE) | --   |
| 1    | 159687    | CHAIN 1/2X 42 GRD7 25 LINKS                    | 1    |
| 2    | 7HCGHT500 | HOOK CLEVIS GRAB 1/2 GR70                      | 1    |

Container, Pusher Assembly

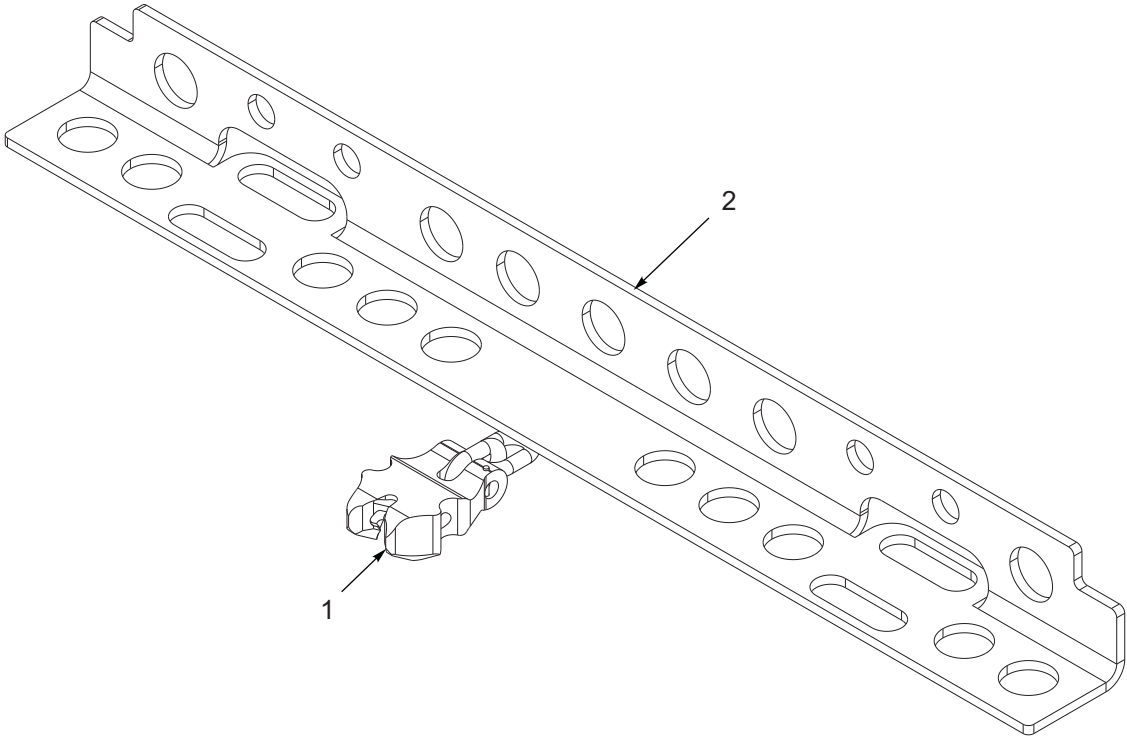


Figure 6-4: Container, Pusher Assembly

Container, Pusher Assembly

| ITEM | PART NO. | DESCRIPTION                                       | QTY. |
|------|----------|---------------------------------------------------|------|
|      | 171210   | PUSHER, CONTAINER ASSY (STANDARD FOR CHAIN DRIVE) | --   |
| 1    | 128500   | CHAIN SHORTENER LINK 1/2                          | 1    |
| 2    | 171211   | PUSHER, CONTAINER UNLOAD WLDMT                    | 1    |

## Container, Hook Assembly

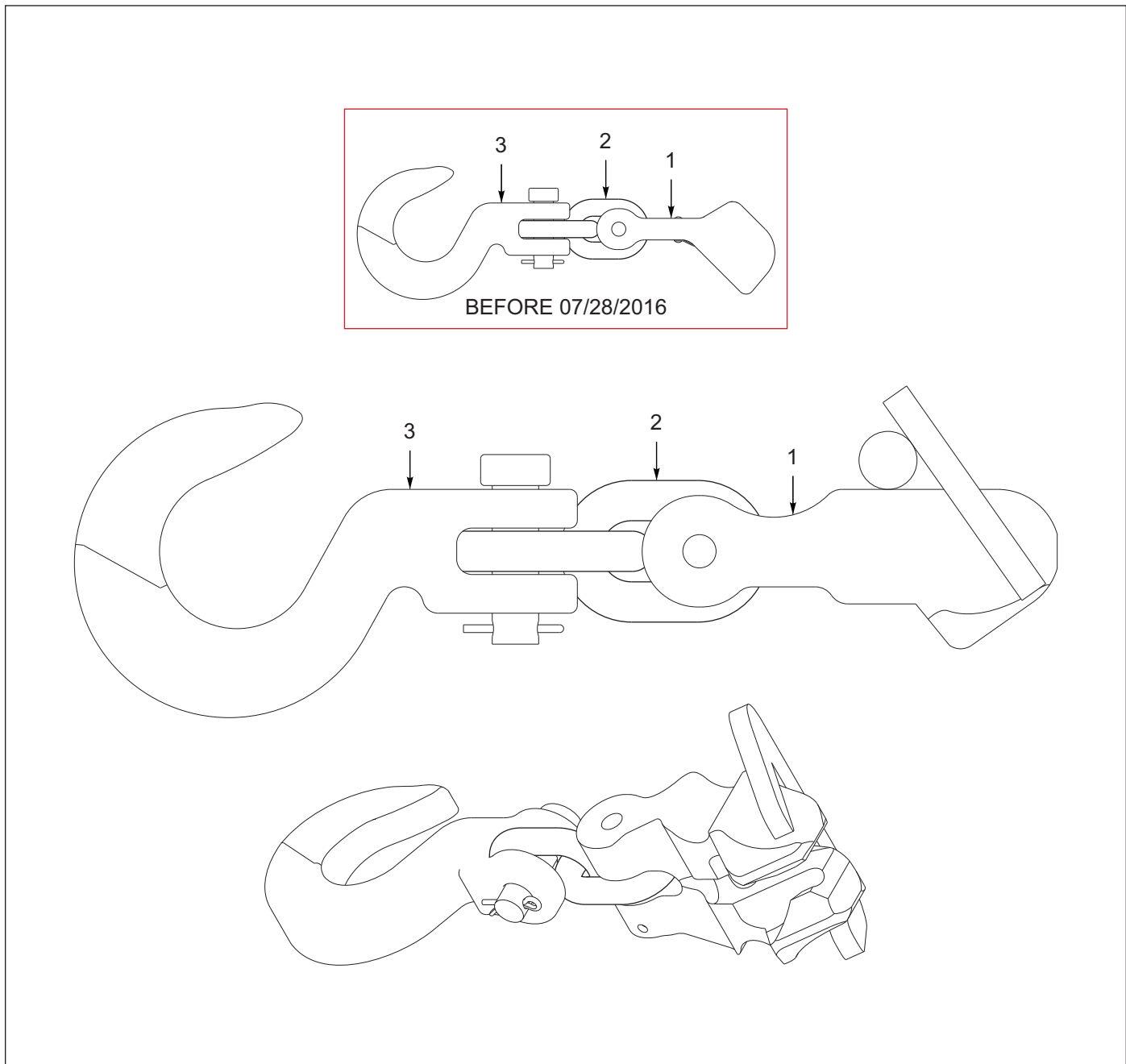


Figure 6-5: Container, Hook Assembly

## Container, Hook Assembly

| ITEM | PART NO.     | DESCRIPTION                                                | QTY. |
|------|--------------|------------------------------------------------------------|------|
|      | 129209       | CHAIN CONNECT/CONTAINER ASSY<br>(STANDARD FOR CHAIN DRIVE) | --   |
| 1    | 128500       | CHAIN SHORTENER LINK 1/2 (BEFORE 07/28/2016)               | 1    |
| 1    | 200430       | CHAIN SHORTENER MOD WLDMT (AFTER 07/28/2016)               | 1    |
| 2    | 3-174-010039 | CHAIN 1/2" GRD 7 (BY THE INCH) (2 LINKS EQUALS 4 INCHES)   | 4    |
| 3    | 7HCGHT500    | HOOK CLEVIS GRAB 1/2 GR70                                  | 1    |

Container, Stop / Lock Pin Assembly

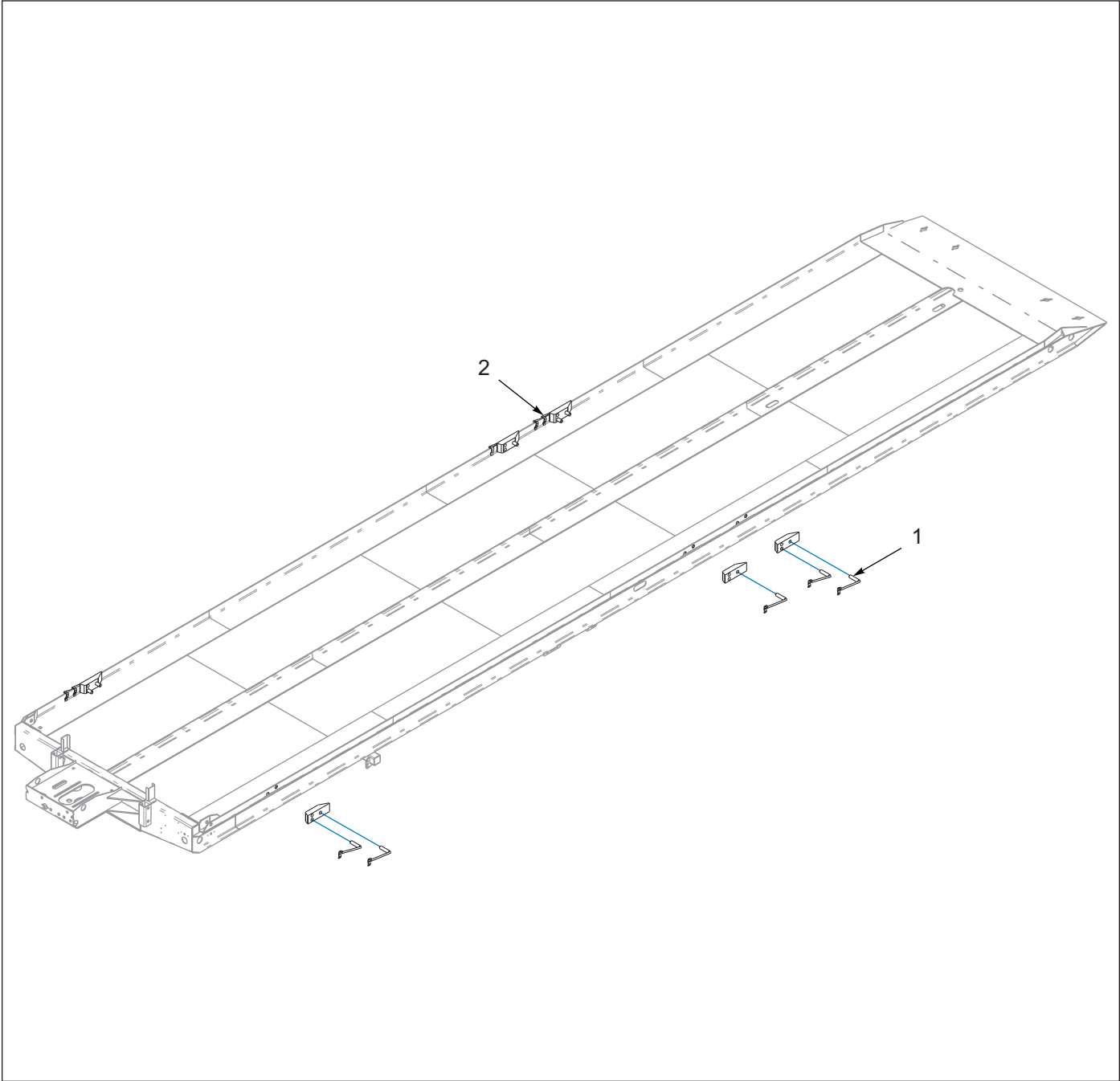


Figure 6-6: Container, Stop / Lock Pin Assembly

Container, Stop / Lock Pin Assembly

| ITEM | PART NO. | DESCRIPTION                                                                       | QTY. |
|------|----------|-----------------------------------------------------------------------------------|------|
|      | 213163   | CONTAIN STOP/LOCK PIN ASSY (STANDARD FOR CHAIN DRIVE)<br>(INCLUDES THE FOLLOWING) | --   |
| 1    | 129240   | PIN,WLDMT HOLD-DOWN 341, LH                                                       | 5    |
| 2    | 129250   | PIN, WLDMT HOLD-DOWN 341, RH                                                      | 5    |



# Storage, Emergency Cone (OPTION)

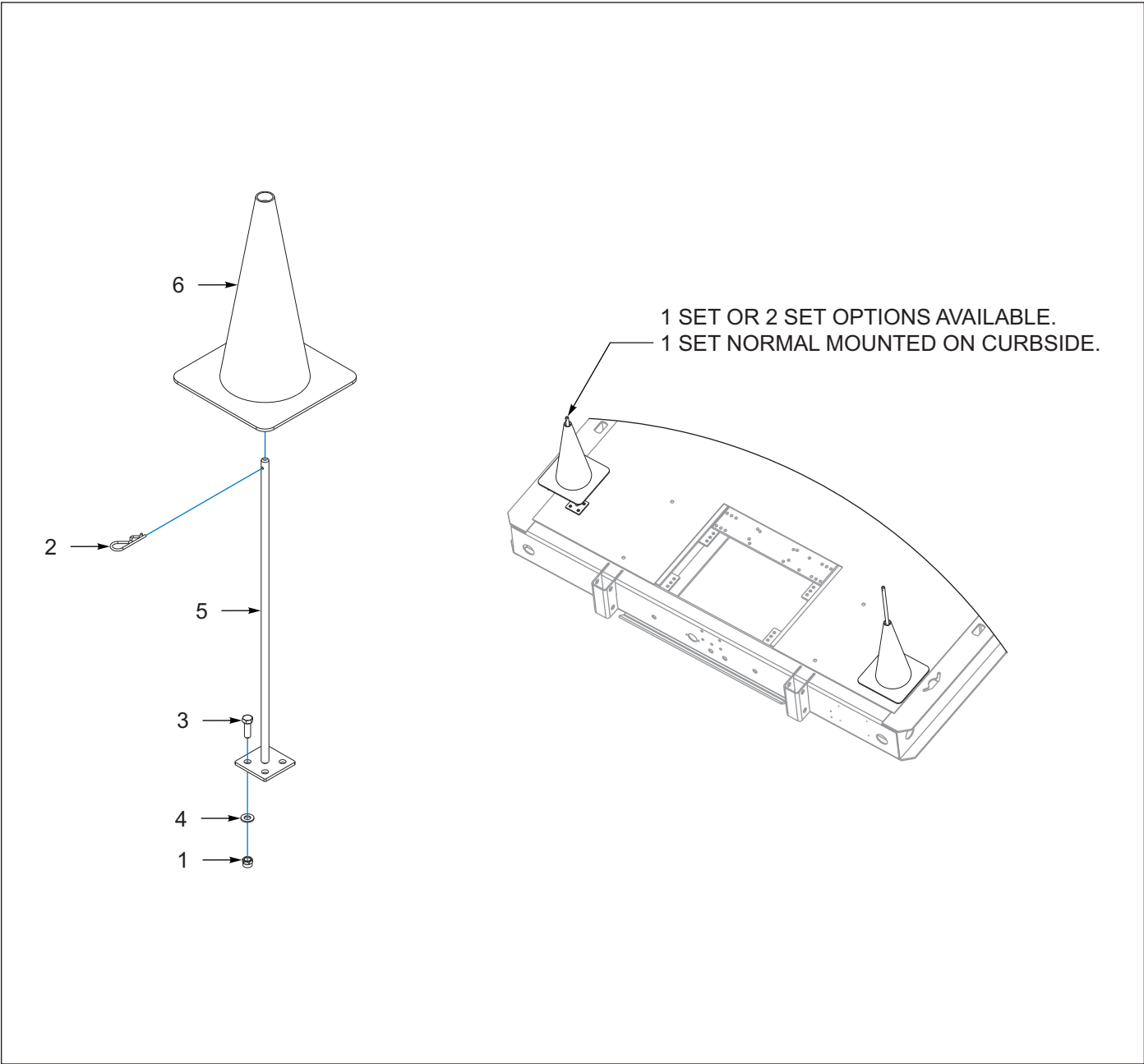


Figure 6-7: Storage, Emergency Cone (OPTION)

## Storage, Emergency Cone (OPTION)

| ITEM | PART NO.        | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 187899          | CONE HOLDER ASSY              | --   |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB    | 4    |
| 2    | 1-557-010013    | PIN, HAIR 3/16 DIA            | 1    |
| 3    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2 | 4    |
| 4    | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD     | 4    |
| 5    | 187898          | CONE HOLDER                   | 1    |
| 6    | 187900          | TRAFFIC CONE                  | --   |

[illegible]

## Toolbox, Bolt-On, 42"W X 28"D X 9"H (OPTIONS)

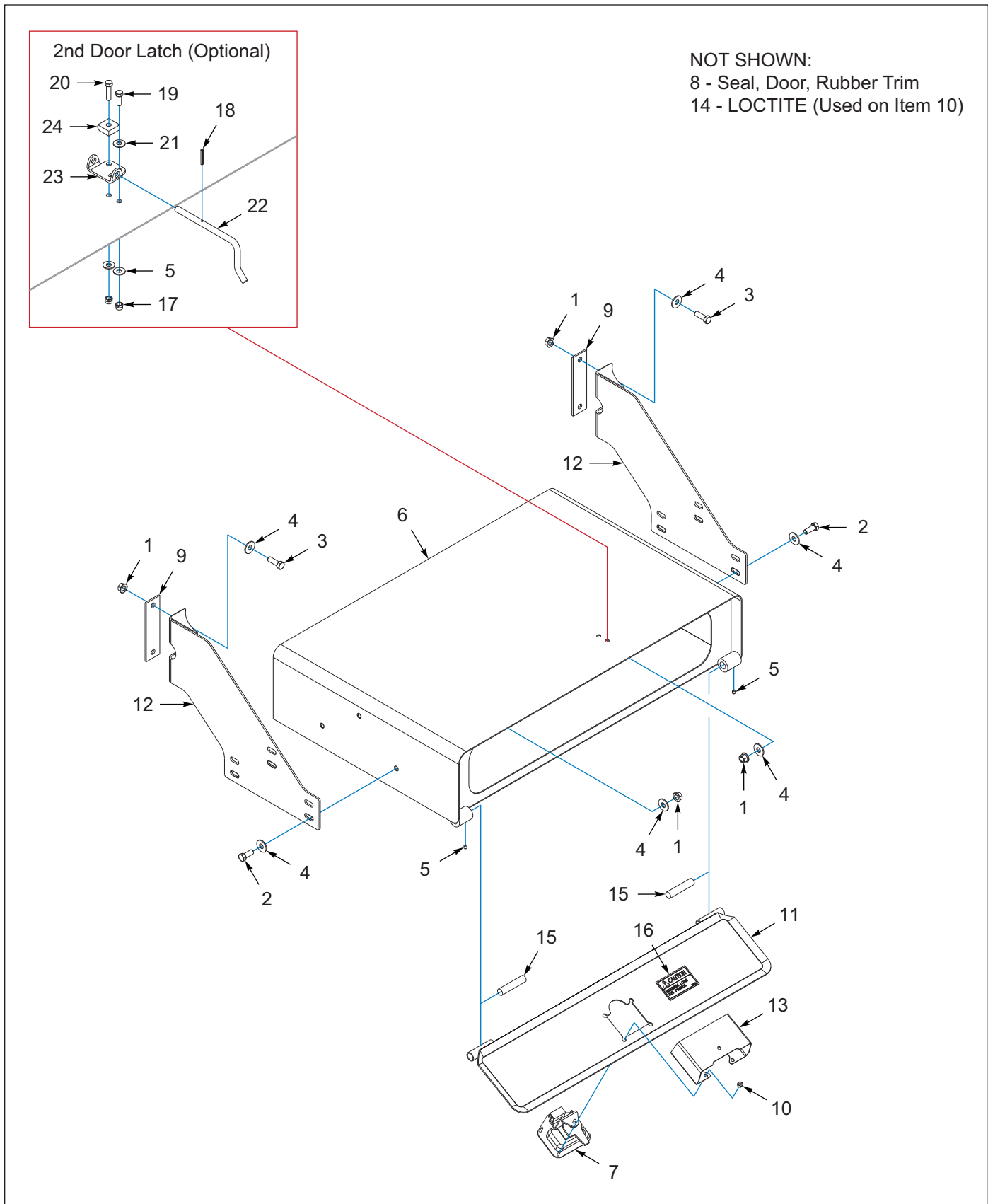


Figure 6-8: Toolbox, Bolt-On, 42"W X 28"D X 9"H (OPTIONS)

## Toolbox, Bolt-On, 42"W X 28"D X 9"H (OPTIONS)

| ITEM | PART NO.        | DESCRIPTION                                                              | QTY. |
|------|-----------------|--------------------------------------------------------------------------|------|
|      | 114807          | TOOLBOX INSTL 930 STL DOOR<br>( <b>BOX 1 - STEEL DOOR, ITEMS 1-16</b> )  | --   |
|      | 116628          | TOOLBOX INSTL 930 ALUM DOOR<br>( <b>BOX 2 - ALUM. DOOR, ITEMS 1-16</b> ) | --   |
|      | 236297          | 2ND TOOLBOX LATCH INSTL<br>( <b>BOX 3 - OPTIONAL ITEMS 17-24</b> )       | --   |
| 1    | 1-510-010003-09 | NUT, 1/2-13 FLANGE HD, SERRATED                                          | 10   |
| 2    | 1-654-010055-02 | SCREW 1/2-13UNCX1-1/4 CP GR5                                             | 6    |
| 3    | 1-654-010055-03 | SCREW, HEX CAP, 1/2-13UNCX1-1/2                                          | 4    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                 | 16   |
| 5    | 107-0975        | SCREW SET LOCK 5/16-18X3/8LG                                             | 2    |
| 6    | 114808          | TOOLBOX WLDMT 930                                                        | 1    |
| 7    | 114814          | LATCH FOLDING T LOCKABLE ( <b>INCLUDES KEY CH545</b> )                   | 1    |
| 8    | 114815          | SEAL, SPONGE RUBBER TRIM ( <b>BY THE FOOT</b> )                          | 7    |
| 9    | 115843          | BAR BACKUP TOOLBOX MTG                                                   | 2    |
| 10   | 115877          | NUT HVY HEX 1/4-20 GR5                                                   | 4    |
| 11   | 116623          | DOOR WLDMT STL 930 TOOLBOX ( <b>BOX 1</b> )                              | 1    |
| 11   | 116624          | DOOR WLDMT ALUM 930 TOOLBOX ( <b>BOX 2</b> )                             | 1    |
| 12   | 117860          | BRACKET WLDMT TOOLBOX MTG                                                | 2    |
| 13   | 153420          | TOOLBOX LATCH SHIELD                                                     | 1    |
| 14   | #242 LOCKTITE   | LOCKTITE 242 BLUE REMOVABLE ( <b>BOTTLE</b> )                            | 0.01 |
| 15   | RPRB59004X3H    | BAR RD, 3/4DIA X 3-1/2 NY LTR                                            | 2    |
| 16   | 205912          | DECAL MAX LOAD 225                                                       | 1    |
| 17   | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16 ( <b>BOX 3</b> )                             | 2    |
| 18   | 1-647-010004177 | PIN, SPRING, SLTD 3/16X1-1/2 ( <b>BOX 3</b> )                            | 1    |
| 19   | 1-654-010051-05 | SCREW, HEX CAP 3/8-16UNCX1 GR5 ( <b>BOX 3</b> )                          | 1    |
| 20   | 1-654-010051-07 | SCREW, HEX CAP, 3/8-16UNCX1-1/2 ( <b>BOX 3</b> )                         | 1    |
| 21   | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD ( <b>BOX 3</b> )                                | 3    |
| 22   | 190728          | PIN DOOR STOP ( <b>BOX 3</b> )                                           | 1    |
| 23   | 190729          | BRACKET DOOR STOP ( <b>BOX 3</b> )                                       | 1    |
| 24   | 192038          | SPACER TOOLBOX ( <b>BOX 3</b> )                                          | 1    |

## Toolbox, Bolt-On, 42"W X 28"D X 17"H (OPTION)

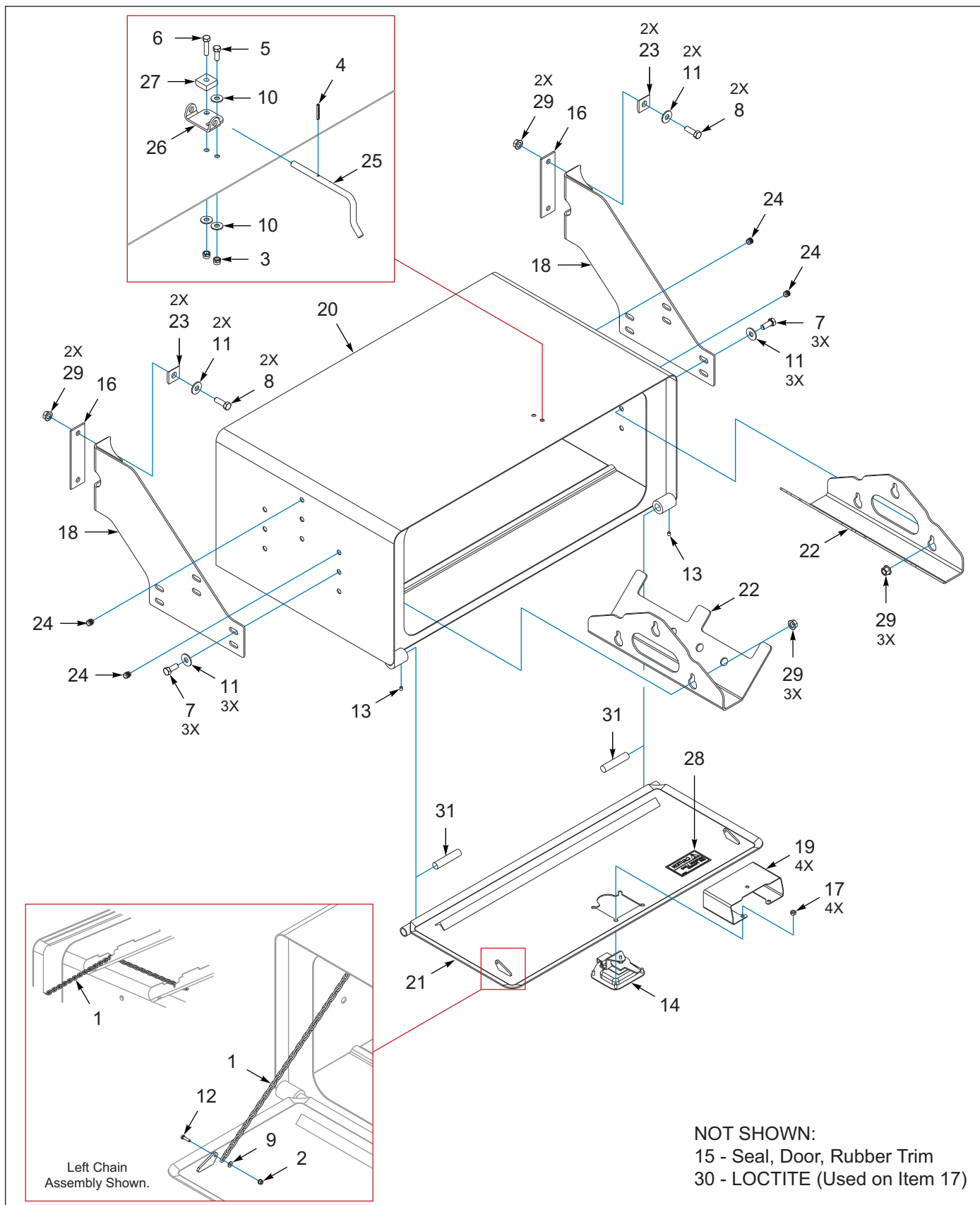


Figure 6-9: Toolbox, Bolt-On, 42"W X 28"D X 17"H (OPTION)

## Toolbox, Bolt-On, 42"W X 28"D X 17"H (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                      | QTY. |
|------|-----------------|----------------------------------------------------------------------------------|------|
|      | 163540          | TOOLBOX INSTL 42X28X17                                                           | - -  |
| 1    | 1-174-010035036 | CHAIN,MACHINE STR #4X36"                                                         | 2    |
| 2    | 1-512-010004-03 | NUT,HEX,SLFLK 10-24UNC, GRA                                                      | 2    |
| 3    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                      | 2    |
| 4    | 1-647-010004177 | PIN,SPRING,SLTD 3/16X1-1/2                                                       | 1    |
| 5    | 1-654-010051-05 | SCREW,HEX CAP 3/8-16UNCX1 GR5                                                    | 1    |
| 6    | 1-654-010051-07 | SCREW,HEX CAP,3/8-16UNCX1-1/2                                                    | 1    |
| 7    | 1-654-010055-02 | SCREW 1/2-13UNCX1-1/4 CP GR5                                                     | 6    |
| 8    | 1-654-010055-04 | SCREW,HEX CAP,1/2-13UNCX1-3/4                                                    | 4    |
| 9    | 1-861-010032-03 | WASHER, FLAT #10 ZP/CD                                                           | 2    |
| 10   | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                         | 3    |
| 11   | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                         | 10   |
| 12   | 107-0002        | #10-24X3/4LG HHCS                                                                | 2    |
| 13   | 107-0975        | SCREW SET LOCK 5/16-18X3/8LG                                                     | 2    |
| 14   | 114814          | LATCH FOLDING T LOCKABLE <b>(INCLUDES KEY CH545)</b>                             | 1    |
| 15   | 114815          | SEAL, SPONGE RUBBER TRIM <b>(BY THE FOOT)</b>                                    | 8    |
| 16   | 115843          | BAR BACKUP TOOLBOX MTG                                                           | 2    |
| 17   | 115877          | NUT HVY HEX 1/4-20 GR5                                                           | 4    |
| 18   | 117860          | BRACKET WLDMT TOOLBOX MTG                                                        | 2    |
| 19   | 153420          | TOOLBOX LATCH SHIELD                                                             | 1    |
| 20   | 163541          | TOOLBOX WLDMT 42X28X17                                                           | 1    |
| 21   | 163544          | DOOR WLDMT STL 42X28X17                                                          | 1    |
| 22   | 178705          | TOOLBOX SUPPORT PANEL <b>(ADDED AFTER 01/03/2024)</b>                            | 2    |
| 23   | 181993          | WASHER TOOLBOX                                                                   | 4    |
| 24   | 189278          | PLUG, PLASTIC PANEL 1/2 & 9/16 <b>(USED TO PLUG EXPOSED TOOLBOX MOUNT HOLES)</b> | 4    |
| 25   | 190728          | PIN DOOR STOP                                                                    | 1    |
| 26   | 190729          | BRACKET DOOR STOP                                                                | 1    |
| 27   | 192038          | SPACER TOOLBOX                                                                   | 1    |
| 28   | 205912          | DECAL MAX LOAD 225                                                               | 1    |
| 29   | 223247          | NUT, 1/2-13 UNC FLG LOCK GR G                                                    | 10   |
| 30   | #242 LOCKTITE   | LOCKTITE 242 BLUE REMOVABLE <b>(BOTTLE)</b>                                      | 0.01 |
| 31   | RPRB59004X3H    | BAR RD, 3/4DIA X 3-1/2 NY LTR                                                    | 2    |

# Air System

## Air System - Standard & Low Load Angle

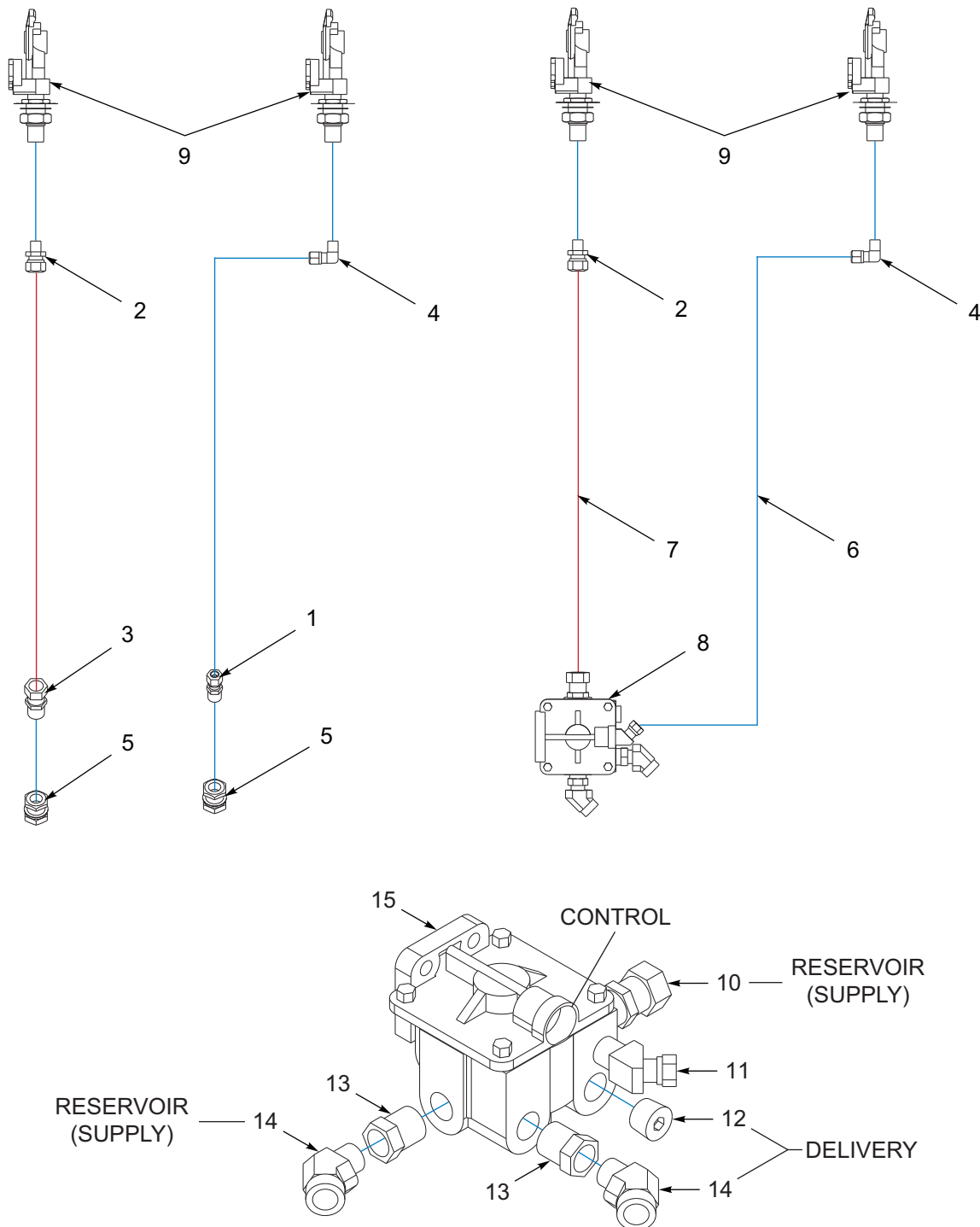


Figure 7-1: Air System - Standard & Low Load Angle

## Air System - Standard & Low Load Angle

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                             | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------|------|
|      | 200498          | HYD ELE AIR 330D-1&2 42' SLA RMT                                                                                        | --   |
|      | 200508          | HYD ELE AIR 330D-1 48' LLA RMT                                                                                          | --   |
| 1    | 1-297-010007-12 | FITTING AIR 3/8TUBE X 3/8NPT <b>(STANDARD ONLY)</b>                                                                     | 1    |
| 2    | 1-297-010007-14 | FITTING AIR 1/2TUBE X 1/4NPT                                                                                            | 1    |
| 3    | 1-297-010007-15 | FITTING AIR 1/2 TUBE X 3/8NPT <b>(STANDARD ONLY)</b>                                                                    | 1    |
| 4    | 1-297-010008-18 | FITTING,AIR 90 3/8TUBEX1/4NPT                                                                                           | 1    |
| 5    | 1-297-010022-03 | FITTING,AIR ANCHR CPLG, 3/8NPT <b>(STANDARD ONLY)</b>                                                                   | 2    |
| 6    | 1-833-010002    | TUBING NYLON 3/8 OD <b>(LOW ANGLE REQS 37')</b>                                                                         | 38   |
| 7    | 1-833-010003    | TUBING NYLON 1/2 OD <b>(LOW ANGLE REQS 35)</b>                                                                          | 36   |
| 8    | 141607          | VALVE ASSY AIR BOOSTER <b>(INCLUDES ITEMS 10-15)</b>                                                                    | 1    |
| 9    | 143163          | CONNECTORS FRONT SUB ASSY <b>(REPAIR - SEE PAGE 10-1)</b><br><b>(BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED)</b> | 1    |
| 9    | 238642          | COUPLERS ISO FRONT SUB ASSY <b>(REPAIR - SEE PAGE 10-1)</b><br><b>(AFTER 03/01/2022 - REPLACES 143163)</b>              | 1    |
| 10   | 1-297-010007-16 | FITTING, AIR                                                                                                            | 1    |
| 11   | 1-297-010013-12 | FITTING, AIR 45                                                                                                         | 1    |
| 12   | 1-560-010002-04 | PLUG, PIPE, 1/2                                                                                                         | 1    |
| 13   | 2081-8-6S       | REDUCER                                                                                                                 | 2    |
| 14   | 2088-6-6S       | ADAPTER, 45                                                                                                             | 2    |
| 15   | 3-843-010038    | VALVE, AIR RELAY-FAST AIR BALANCE                                                                                       | 1    |



## Anti-Lock Brake System, Single Axle

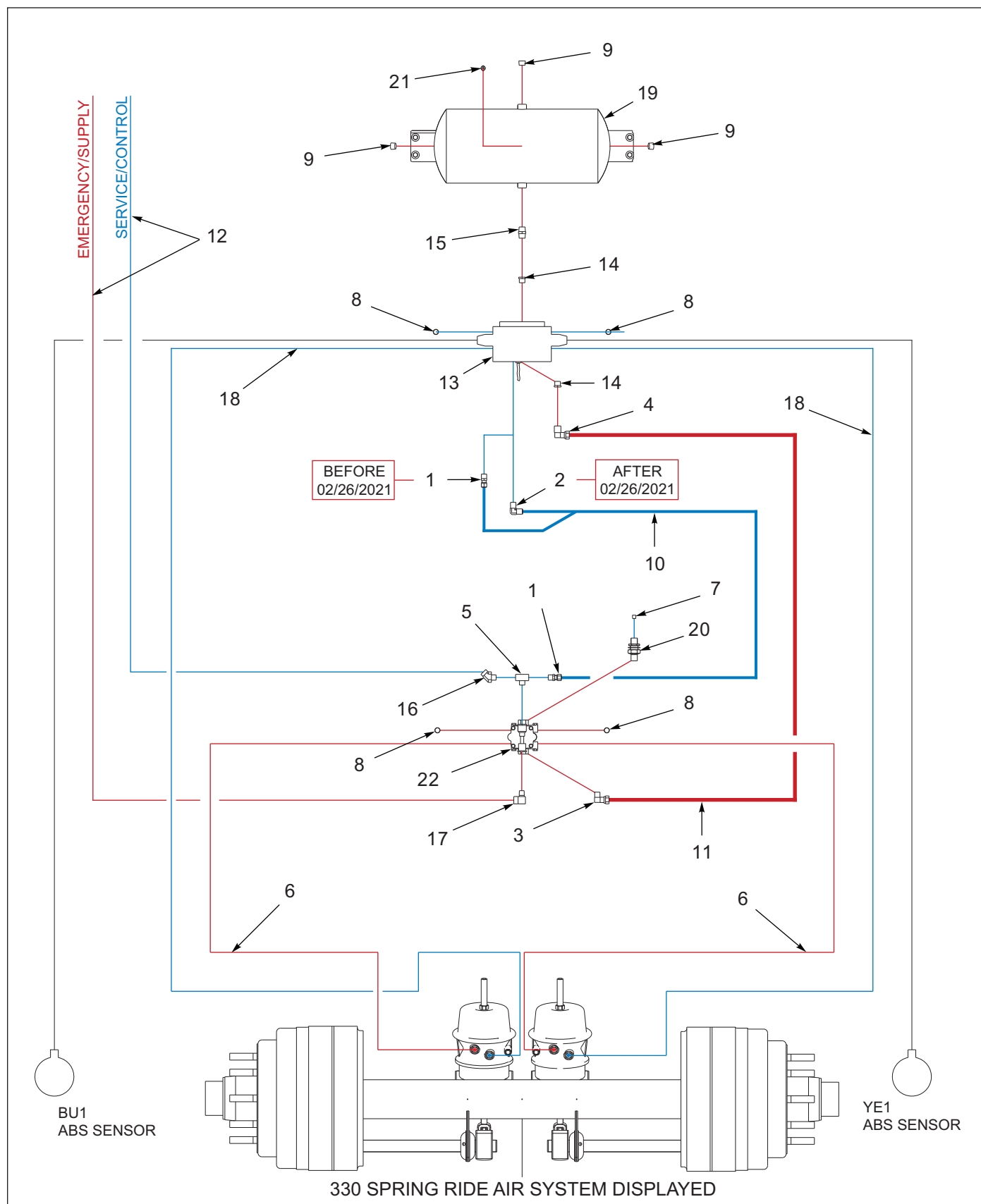


Figure 7-2: Anti-Lock Brake System, Single Axle

## Anti-Lock Brake System, Single Axle

| ITEM | PART NUMBER     | DESCRIPTION                                                     | QTY. |
|------|-----------------|-----------------------------------------------------------------|------|
|      | 201075          | SUSP S/R 330D-1-102 SLA                                         | --   |
|      | 201077          | SUSP ASSY S/R 330D-1-102 LLA                                    | --   |
|      | 201115          | SUSP ASSY A/R 330D-1-102 SLA                                    | --   |
|      | 201117          | SUSP ASSY A/R 330D-1-102 LLA                                    | --   |
| 1    | 1-297-010007-12 | FITTING AIR 3/8TUBE X 3/8NPT <b>(BEFORE 02/26/2021, 2 EACH)</b> | 1    |
| 2    | 1-297-010008-20 | FITTING,AIR 90 3/8TUBEX3/8NPT <b>(AFTER 02/26/2021)</b>         | 1    |
| 3    | 1-297-010008-23 | FITTING,AIR 90 1/2TUBEX3/8NPT                                   | 1    |
| 4    | 1-297-010008-24 | FITTING,AIR 90 1/2TUBEX1/2NPT                                   | 1    |
| 5    | 1-297-010017-03 | FITTING,BRS PIPE M/BR TEE 3/8                                   | 1    |
| 6    | 1-384-010038024 | HOSE ASM AIR 3/8X24,W/3/8 END                                   | 2    |
| 7    | 1-560-010002-02 | PLUG, PIPE, 1/4NPT                                              | 1    |
| 8    | 1-560-010002-03 | PLUG, PIPE, 3/8NPTF                                             | 4    |
| 9    | 1-560-010002-04 | PLUG, PIPE, 1/2NPT                                              | 3    |
| 10   | 1-833-010002    | TUBING NYLON 3/8 OD                                             | 4    |
| 11   | 1-833-010003    | TUBING NYLON 1/2 OD                                             | 4    |
| 12   | 103698          | HOSE ASM AIR 3/8X182,W/3/8 END <b>(STANDARD LOAD ANGLE)</b>     | 2    |
| 12   | 103699          | HOSE ASM AIR 3/8X230,W/3/8 END <b>(LOW LOAD ANGLE)</b>          | 2    |
| 13   | 114585          | ABS KIT WABCO 2S/1M SGL                                         | 1    |
| 14   | 118-2659-9      | BUSHING 1/2NPTX3/4NPT STL                                       | 2    |
| 15   | 2083-8-8S       | NIPPLE 1/2NPTX1/2NPT                                            | 1    |
| 16   | 2088-6-6S       | ADAPTER 45 3/8MPTX3/8FPT                                        | 1    |
| 17   | 2089-6-6S       | ADAPTER 90 3/8MPTX3/8FPT                                        | 1    |
| 18   | 3-384-010031    | HOSE, AIR 3/8X42, .38 NPT ENDS                                  | 2    |
| 19   | 3-780-010002    | TANK AIR 9.5X22.5 .5NPT PORTS                                   | 1    |
| 20   | 55B61           | FRAME UNION                                                     | 1    |
| 21   | 56D4            | COCK,DRAIN AIR TANK VEL036019                                   | 1    |
| 22   | 758-181         | VALVE TASK 4 PORT                                               | 1    |

# Anti-Lock Brake System, Tandem Axle

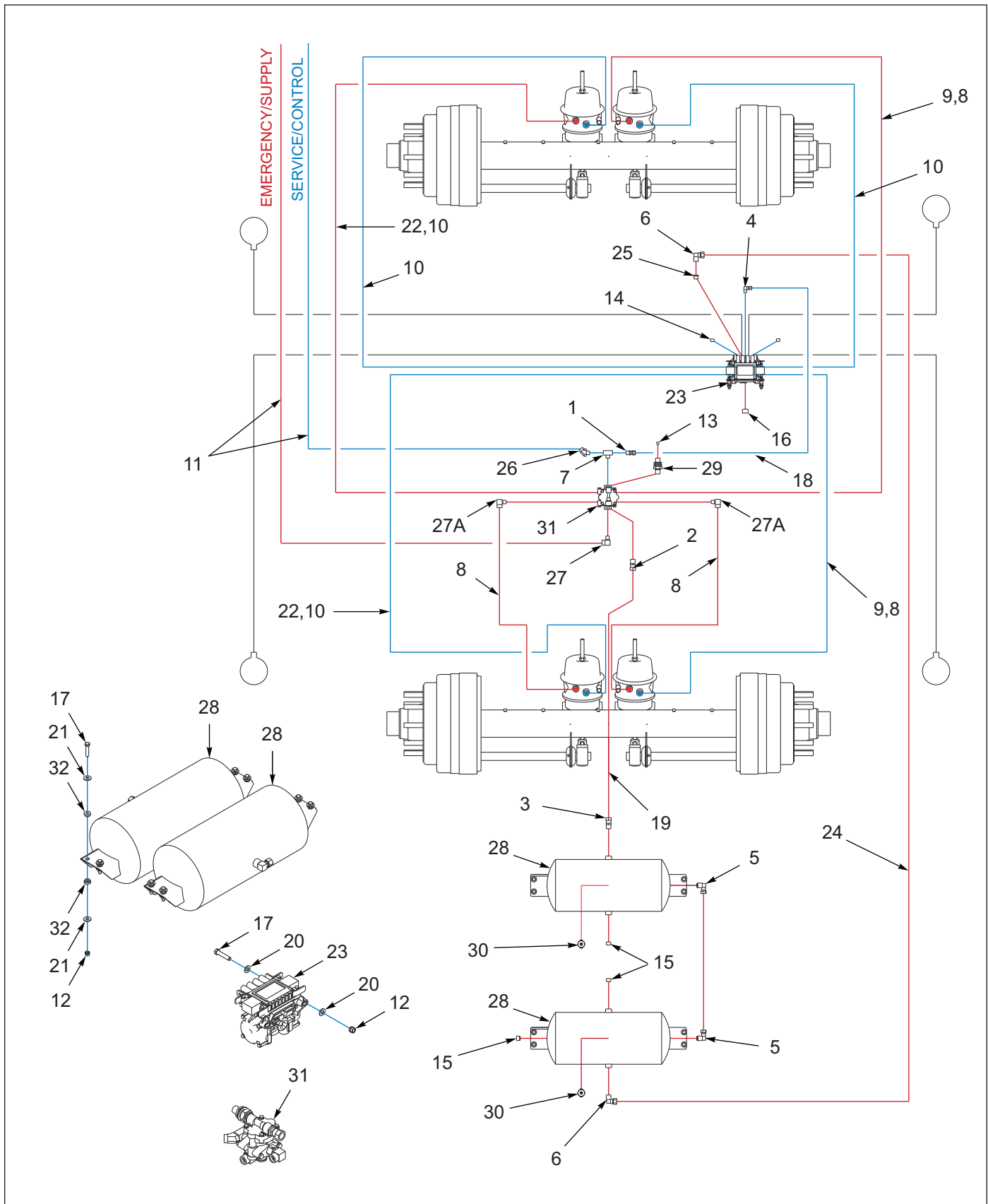


Figure 7-3: Anti-Lock Brake System, Tandem Axle

## Anti-Lock Brake System, Tandem Axle

| ITEM | PART NO.        | DESCRIPTION                                                                                         | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------|------|
|      | 201099          | SUSP A/R 330D-2-102 SLA                                                                             | --   |
|      | 201101          | SUSP ASSY A/R 330D-2-102 LLA                                                                        | --   |
|      | 201103          | SUSP ASSY A/R 330DD-2-102 SLA                                                                       | --   |
|      | 201105          | SUSP ASSY 330DD-2-102 LLA                                                                           | --   |
| 1    | 1-297-010007-12 | FITTING AIR 3/8TUBE X 3/8NPT                                                                        | 1    |
| 2    | 1-297-010007-15 | FITTING AIR 1/2 TUBE X 3/8NPT                                                                       | 1    |
| 3    | 1-297-010007-16 | FITTING AIR 1/2TUBEX1/2 NPT                                                                         | 1    |
| 4    | 1-297-010008-18 | FITTING,AIR 90 3/8TUBEX1/4NPT                                                                       | 1    |
| 5    | 1-297-010008-24 | FITTING,AIR 90 1/2TUBEX1/2NPT                                                                       | 2    |
| 6    | 1-297-010008-26 | FITTING AIR 5/8TUBE X1/2NPT90                                                                       | 2    |
| 7    | 1-297-010017-03 | FITTING,BRS PIPE M/BR TEE 3/8                                                                       | 1    |
| 8    | 1-384-010038024 | HOSE ASM AIR 3/8X24,W/3/8 END (BEFORE 02/04/2019, REQ 2 EACH - AFTER 02/04/2019 - REPLACES ITEM 9)  | 4    |
| 9    | 1-384-010038038 | HOSE ASM AIR 3/8X38,W/3/8 END (BEFORE 02/04/2019 - AFTER REPLACED BY ITEM 8)                        | 2    |
| 10   | 1-384-010038056 | HOSE ASM AIR 3/8X56,W/3/8 END (BEFORE 02/04/2019, REQ 2 EACH - AFTER 02/04/2019 - REPLACES ITEM 22) | 4    |
| 11   | 1-384-010038204 | HOSE ASM AIR 3/8X204,W/3/8 END (STANDARD LOAD ANGLE)                                                | 2    |
| 11   | 103699          | HOSE ASM AIR 3/8X230,W/3/8 END (LOW LOAD ANGLE)                                                     | 2    |
| 12   | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                         | 10   |
| 13   | 1-560-010002-02 | PLUG, PIPE, 1/4NPT                                                                                  | 1    |
| 14   | 1-560-010002-03 | PLUG, PIPE, 3/8NPTF                                                                                 | 2    |
| 15   | 1-560-010002-04 | PLUG, PIPE, 1/2NPT                                                                                  | 3    |
| 16   | 1-560-010002-05 | PLUG,PIPE, 3/4-14NPTF                                                                               | 1    |
| 17   | 1-654-010051-08 | SCREW,HEX CAP,3/8-16X1-3/4 G5                                                                       | 10   |
| 18   | 1-833-010002    | TUBING NYLON 3/8 OD                                                                                 | 2    |
| 19   | 1-833-010003    | TUBING NYLON 1/2 OD                                                                                 | 17   |
| 20   | 1-861-010032-12 | WASHER FL 7/16 ZP/CD                                                                                | 4    |
| 21   | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                            | 16   |
| 22   | 101003          | HOSE ASM AIR 3/8X48,W/3/8 END (BEFORE 02/04/2019 - AFTER REPLACED BY ITEM 10)                       | 2    |
| 23   | 114584          | ABS KIT WABCO 4S/2M TAB(SEE PAGE 7-7)<br>(BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)            | 1    |
| 24   | 117304          | TUBING NYLON 5/8                                                                                    | 15   |
| 25   | 118-2659-9      | BUSHING 1/2NPTX3/4NPT STL                                                                           | 1    |
| 26   | 2088-6-6S       | ADAPTER 45 3/8MPTX3/8FPT                                                                            | 1    |
| 27   | 2089-6-6S       | ADAPTER 90 3/8MPTX3/8FPT (BEFORE 08/30/2021, REQ 1 EACH - AFTER 08/30/2021, 27A WAS ADDED)          | 3    |
| 28   | 3-780-010002    | TANK AIR 9.5X22.5 .5NPT PORTS                                                                       | 2    |
| 29   | 55B61           | FRAME UNION                                                                                         | 1    |
| 30   | 56D4            | COCK,DRAIN AIR TANK VEL036019                                                                       | 2    |
| 31   | 758-181         | VALVE TASK 4 PORT                                                                                   | 1    |
| 32   | 805-2           | BUSHINGS, STEP                                                                                      | 16   |

## Anti-Lock Brake Kit, Components

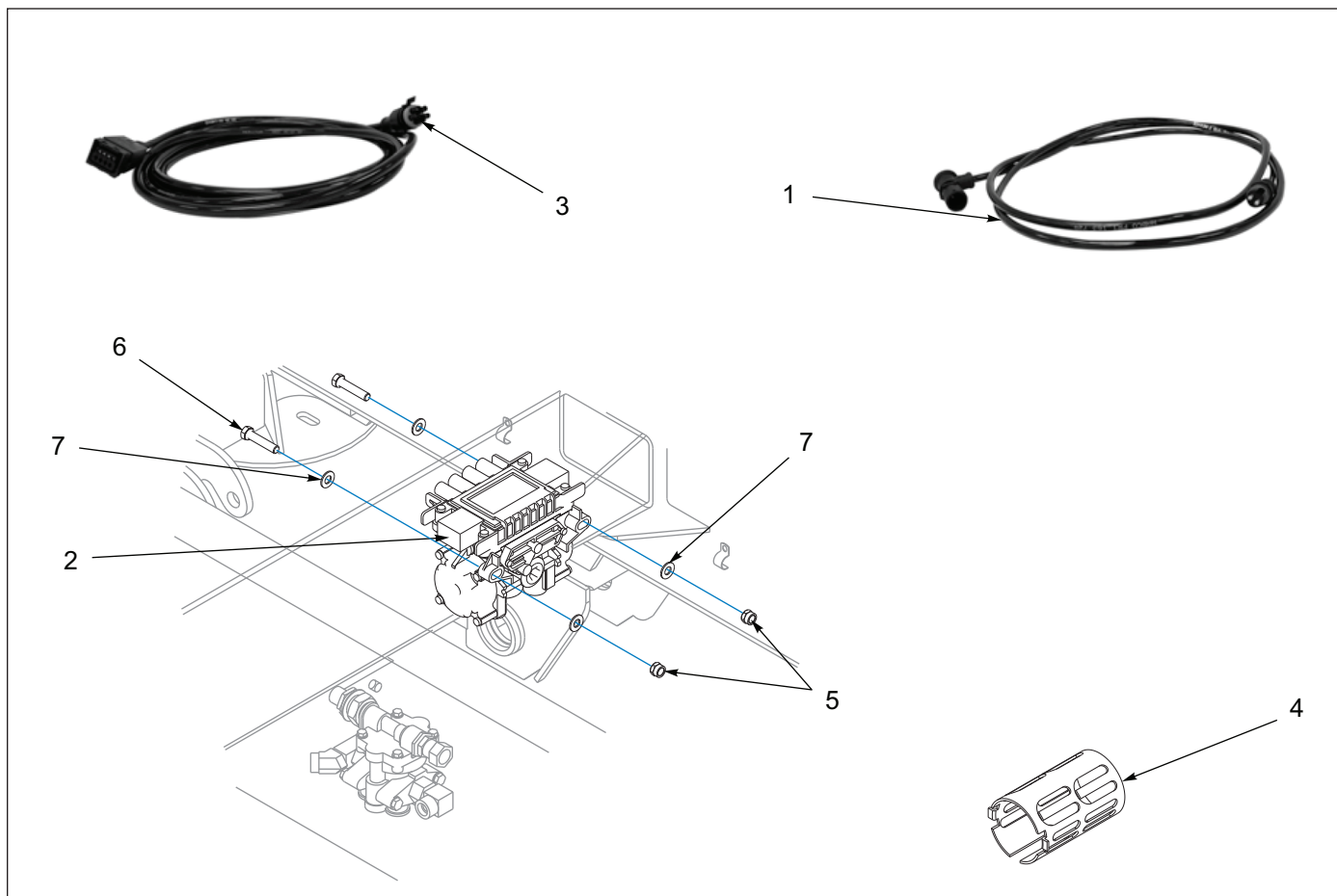


Figure 7-4: Anti-Lock Brake Kit, Components

## Anti-Lock Brake Kit, Components

| ITEM | PART NO.        | DESCRIPTION                                                                                                      | QTY. |
|------|-----------------|------------------------------------------------------------------------------------------------------------------|------|
|      | 114585          | BRAKE KIT, ROCKWELL ABS, 2S/1M<br>(SINGEL AXLE ONLY)                                                             | --   |
|      | 114584          | ABS KIT WABCO 4S/2M TAB (TANDEM AXLE ONLY)<br>(BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)                    | --   |
|      | 114586          | ABS BRAKE KIT 4S/2M-TRI/SPRD (INCLUDES ITEMS 1-3)<br>(AFTER 12/08/2021 - REPLACED 114584)                        | --   |
| 1    | 101848          | SENSOR EXT. CABLE, 1.78M, ABS (6' LONG)<br>(114585, REQ 2 EACH)<br>(114584 BEFORE 12/08/2021 - AFTER USE 103861) | 4    |
| 1    | 103861          | SENSOR EXT CABLE-3M (10FT) (114586)<br>(AFTER 12/08/2021)                                                        | 4    |
| 2    | 114589          | ECU/VALVE ASSEMBLY 2S/1M                                                                                         | 1    |
| 2    | 114588          | ECU/VALVE ASSEMBLY 4S/2M                                                                                         | 1    |
| 3    | 147464          | POWER CABLE 4.0M (13' LONG)                                                                                      | 1    |
| 4    | 101849          | ABS SENSOR SPRING CLIP                                                                                           | 2    |
| 5    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                      | 2    |
| 6    | 1-654-010051-08 | SCREW, HEX, 3/8-16 UNCX1-3/4 GRB                                                                                 | 2    |
| 7    | 1-861-010032-10 | WASHER, FLAT 3/8" N ZP/CD                                                                                        | 4    |

[illegible]

## Control, Air Suspension Height, Single Axle

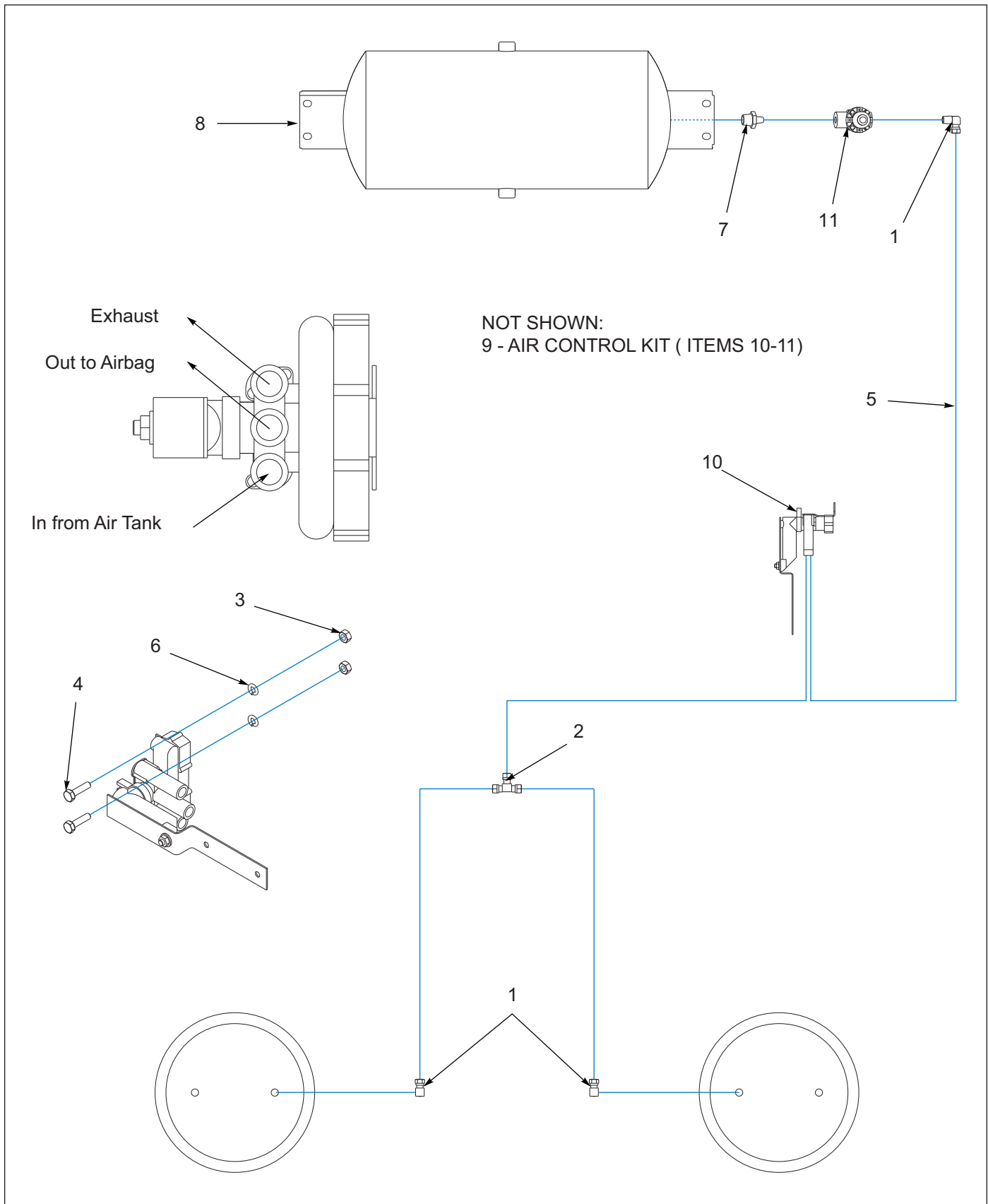


Figure 7-5: Control, Air Suspension Height, Single Axle

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## Control, Air Suspension Height, Single Axle

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------|------|
|      | 204114          | SUSP ASSY A/R 330D-1-102                                                                                                   | --   |
| 1    | 1-297-010008-07 | FITTING AIR 90 1/4TUBEX1/4NPT                                                                                              | 3    |
| 2    | 1-297-010010-01 | FITTING,AIR,UNION TEE 1/4                                                                                                  | 1    |
| 3    | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                                                                                                     | 2    |
| 4    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                                                                                                | 2    |
| 5    | 1-833-010001    | TUBING NYLON 1/4 OD                                                                                                        | --   |
| 6    | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                                                                                                  | 2    |
| 7    | 2083-8-4S       | NIPPLE HEX 1/2PIPE - 1/4PIPE                                                                                               | 1    |
| 8    | 3-780-010002    | TANK AIR 9.5X22.5 .5NPT PORTS                                                                                              | 1    |
| 9    | 102732          | AIR CONTROL KIT <b>(INCLUDES ITEMS 10-11)</b><br><b>(COMPONENTS - SEE PAGE 7-13)</b>                                       | --   |
| 10   | 900 54 007      | HEIGHT CONTROL VALVE N <b>(FOR 1/4" AIR LINE)</b><br><b>(INCLUDED WITH ITEMS 9)</b><br><b>(COMPONENTS - SEE PAGE 7-13)</b> | --   |
| 11   | 905-54-107      | BRAKE PROTECTION VALVE <b>(INCLUDES FILTER 167692)</b><br><b>(INCLUDED WITH ITEM 9)</b>                                    | --   |



## Control, Air Suspension Height, Tandem Axle

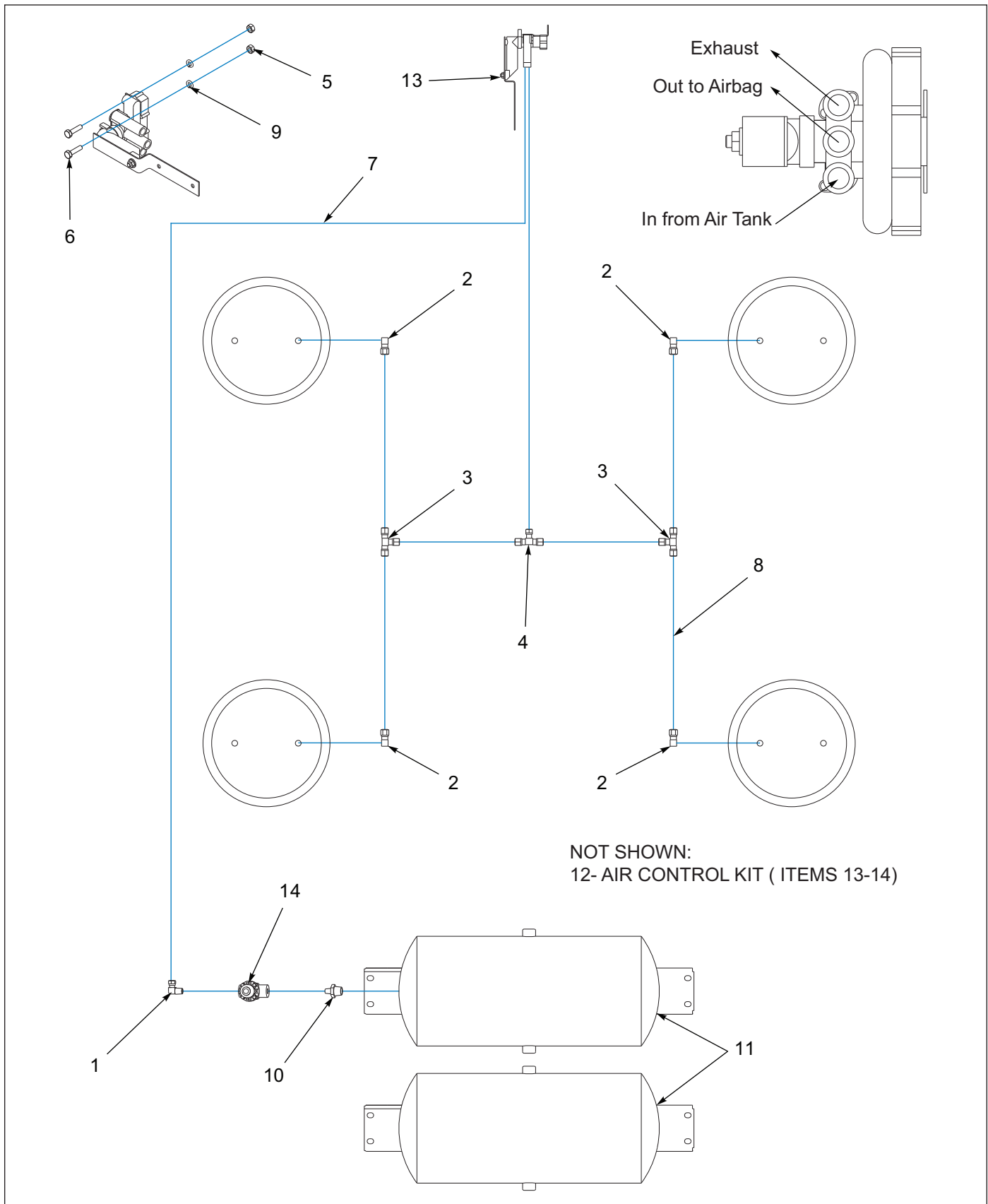
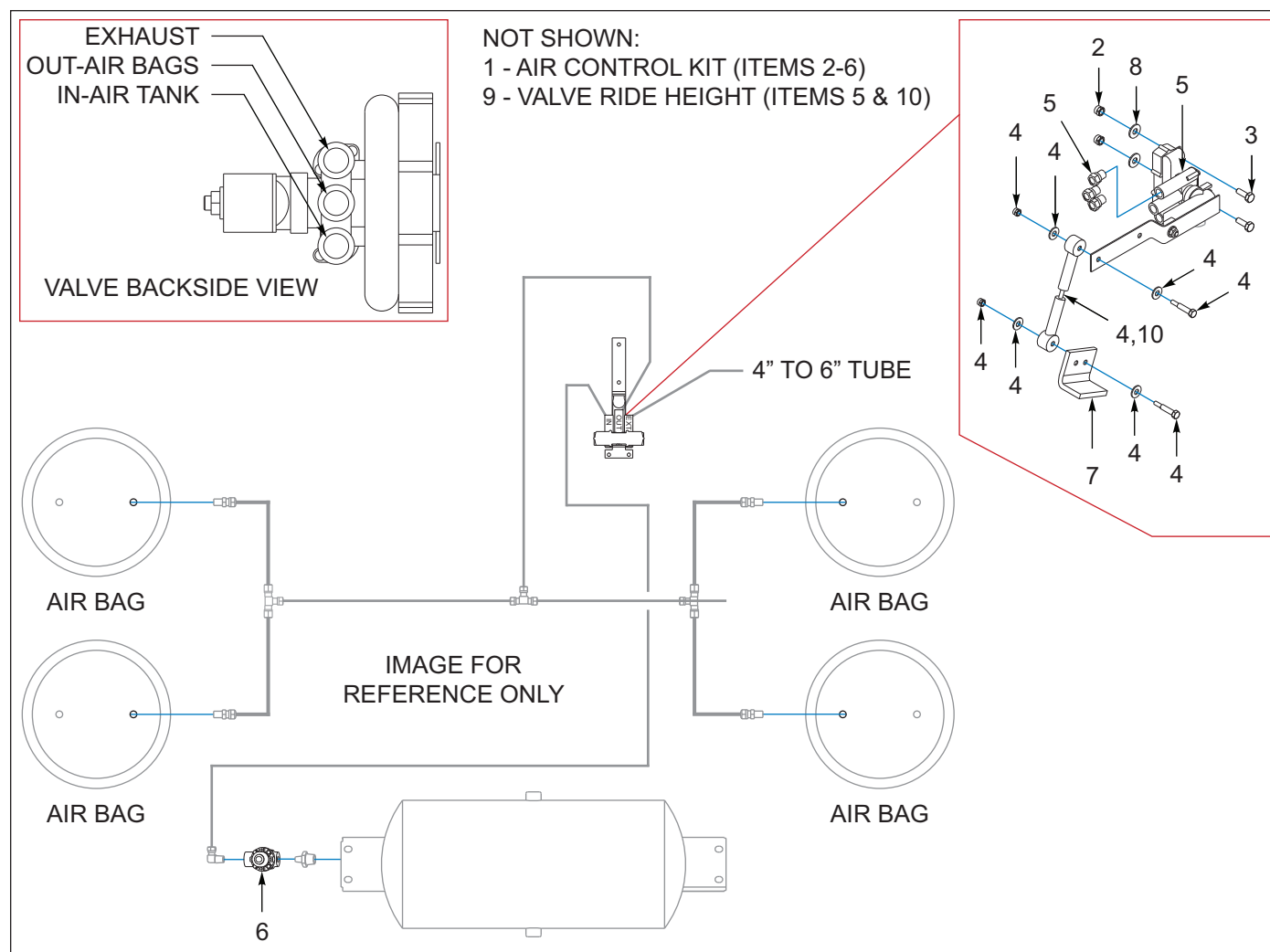


Figure 7-6: Control, Air Suspension Height, Tandem Axle

## Control, Air Suspension Height, Tandem Axle

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------|------|
|      | 201099          | SUSP A/R 330D-2-102 SLA                                                                                                    | --   |
| 1    | 1-297-010008-07 | FITTING AIR 90 1/4TUBEX1/4NPT                                                                                              | 1    |
| 2    | 1-297-010008-18 | FITTING,AIR 90 3/8TUBEX1/4NPT                                                                                              | 4    |
| 3    | 1-297-010010-03 | FITTING,AIR, UNION TEE 3/8                                                                                                 | 2    |
| 4    | 1-297-010010-04 | FITTING,AIR,UN/TEE3/8X3/8X1/4                                                                                              | 1    |
| 5    | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                                                                                                     | 2    |
| 6    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5                                                                                                | 2    |
| 7    | 1-833-010001    | TUBING NYLON 1/4 OD                                                                                                        | 11   |
| 8    | 1-833-010002    | TUBING NYLON 3/8 OD                                                                                                        | 16   |
| 9    | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                                                                                                  | 2    |
| 10   | 2083-8-4S       | NIPPLE HEX 1/2PIPE - 1/4PIPE                                                                                               | 1    |
| 11   | 3-780-010002    | TANK AIR 9.5X22.5 .5NPT PORTS                                                                                              | 2    |
| 12   | 102732          | AIR CONTROL KIT <b>(INCLUDES ITEMS 10-11)</b><br><b>(COMPONENTS - SEE PAGE 7-13)</b>                                       | 1    |
| 13   | 900 54 007      | HEIGHT CONTROL VALVE N <b>(FOR 1/4" AIR LINE)</b><br><b>(INCLUDED WITH ITEMS 9)</b><br><b>(COMPONENTS - SEE PAGE 7-13)</b> | --   |
| 14   | 905-54-107      | BRAKE PROTECTION VALVE <b>(INCLUDES FILTER 167692)</b><br><b>(INCLUDED WITH ITEM 9)</b>                                    | --   |

## Air Control Kit



### Figure 7-7: Air Control Kit

## Air Control Kit

| ITEM | PART NUMBER     | DESCRIPTION                                                                                      | QTY. |
|------|-----------------|--------------------------------------------------------------------------------------------------|------|
| 1    | 102732          | AIR CONTROL KIT <b>(INCLUDES ITEMS 2-6)</b>                                                      | 1    |
| 2    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20 <b>(INCLUDED WITH ITEM 1)</b>                                          | 2    |
| 3    | 1-654-010047-04 | SCREW,HEX CAP,1/4-20X3/4 GR5 <b>(INCLUDED WITH ITEM 1)</b>                                       | 2    |
| 4    | 111021          | KIT SRK-167 NEWAY 952-50-001 <b>(INCLUDED WITH ITEM 1)</b><br><b>(INCLUDES 14-1/2" LONG ROD)</b> | 1    |
| 5    | 900 54 007      | HEIGHT CONTROL VALVE N <b>(FOR 1/4" AIR LINE)</b><br><b>(INCLUDED WITH ITEMS 1, 9)</b>           | 1    |
| 6    | 905-54-107      | BRAKE PROTECTION VALVE <b>(INCLUDES FILTER 167692)</b><br><b>(INCLUDED WITH ITEM 1)</b>          | 1    |
| 7    | 238806          | BRCKT LINK, RIDE HGHT<br><b>(NOT INCLUDED - ADDED AFTER 10/26/2021)</b>                          | 1    |
| 8    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP <b>(NOT INCLUDED)</b>                                                         | 2    |
| 9    | 3F843-010034    | FI VALVE RIDE HEIGHT CONTROL <b>(INCLUDES ITEMS 5, 10)</b>                                       | 1    |
| 10   | 481-00-225      | LINKAGE (18-1/4" LONG ROD) <b>(CUT TO FIT)</b><br><b>(INCLUDED WITH ITEM 9)</b>                  | 1    |

[illegible]

## Tire Inflation System, Single Axle (OPTION)

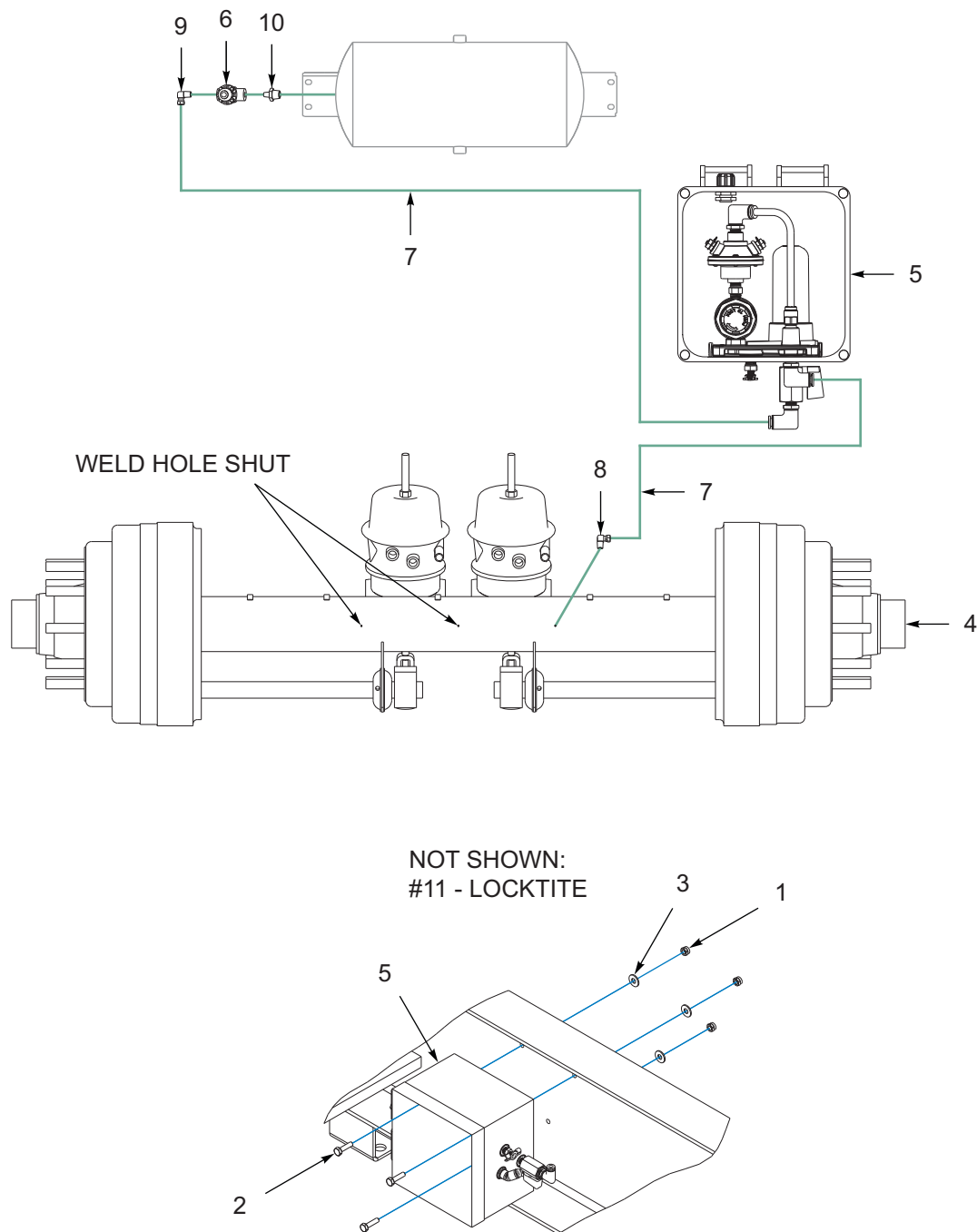


Figure 7-8: Tire Inflation System, Single Axle (OPTION)

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## Tire Inflation System, Single Axle (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                         | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------|------|
|      | 223301          | TIRE INFLATION SYS 1 AXLE <b>(INCLUDES ITEMS 1-6)</b>                                               | - -  |
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                                                                           | 3    |
| 2    | 1-654-010047-07 | SCREW,HX CP 1/4-20UNCX1-1/4G5                                                                       | 3    |
| 3    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                                                                                  | 3    |
| 4    | 197613          | HUB CAP TIS OIL AXLE                                                                                | 2    |
| 5    | 201030          | THERMALERT TIS 1 AXLE <b>(INCLUDES ITEMS 7-8)</b><br><b>(ADDITIONAL COMPONENTS - SEE PAGE 7-19)</b> | 1    |
| 6    | 168610          | THERMALERT PRESS PROT VALVE                                                                         | 1    |
| 7    | - - - - -       | TUBING NYLON 1/4 OD <b>(GREEN) (BY THE FOOT)</b>                                                    | - -  |
| 8    | 1-297-010008-05 | FITTING,AIR 90 1/4TUBEX1/8NPT                                                                       | 1    |
| 9    | 1-297-010008-07 | FITTING AIR 90 1/4TUBEX1/4NPT                                                                       | 1    |
| 10   | 2083-8-4S       | NIPPLE HEX 1/2PIPE - 1/4PIPE                                                                        | 1    |
| 11   | 115629          | LOCTITE 592 250ML TUBE <b>(NOT SHOWN)</b>                                                           | 0.25 |

## Tire Inflation System, Tandem Axle (OPTION)

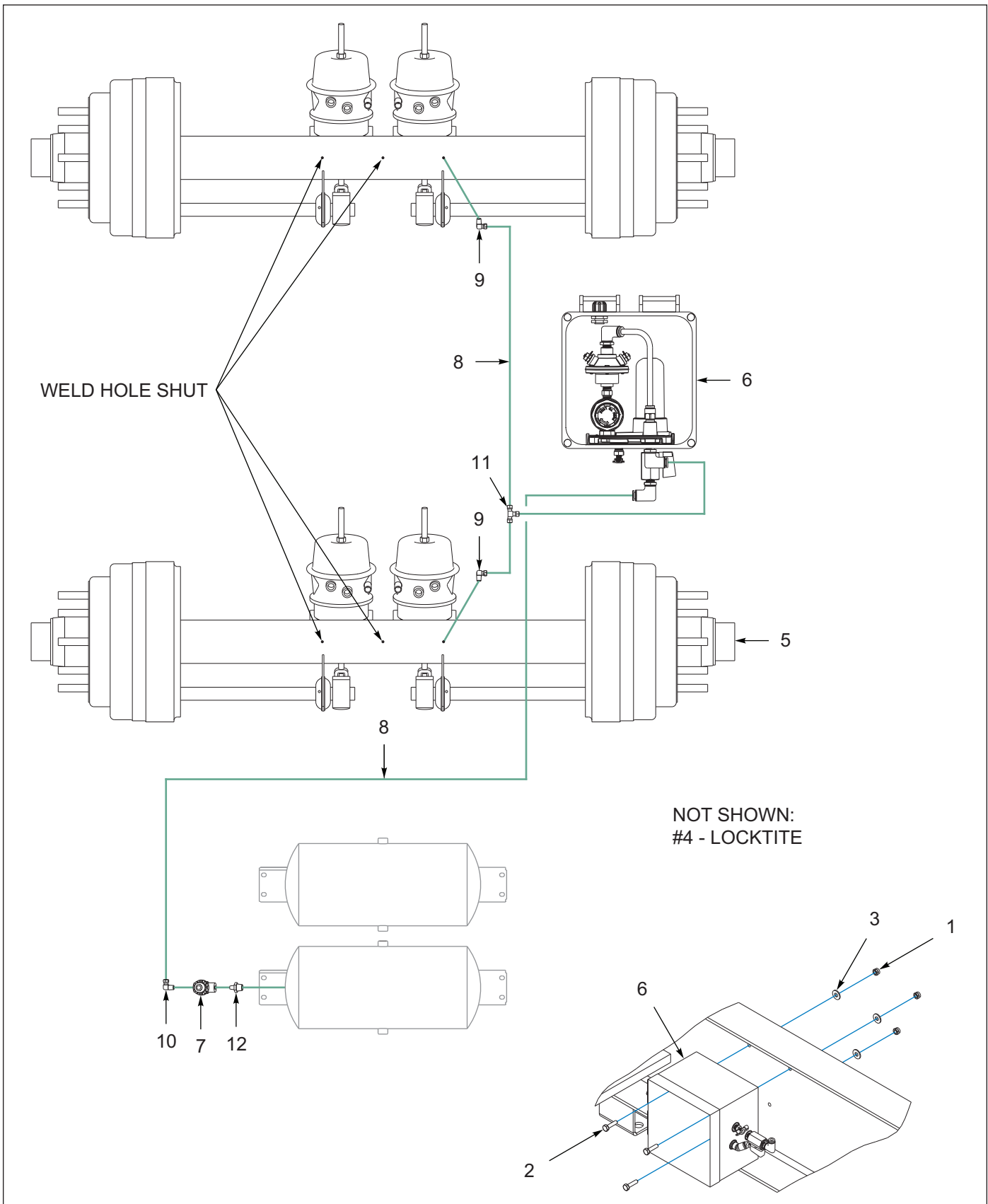


Figure 7-9: Tire Inflation System, Tandem Axle (OPTION)

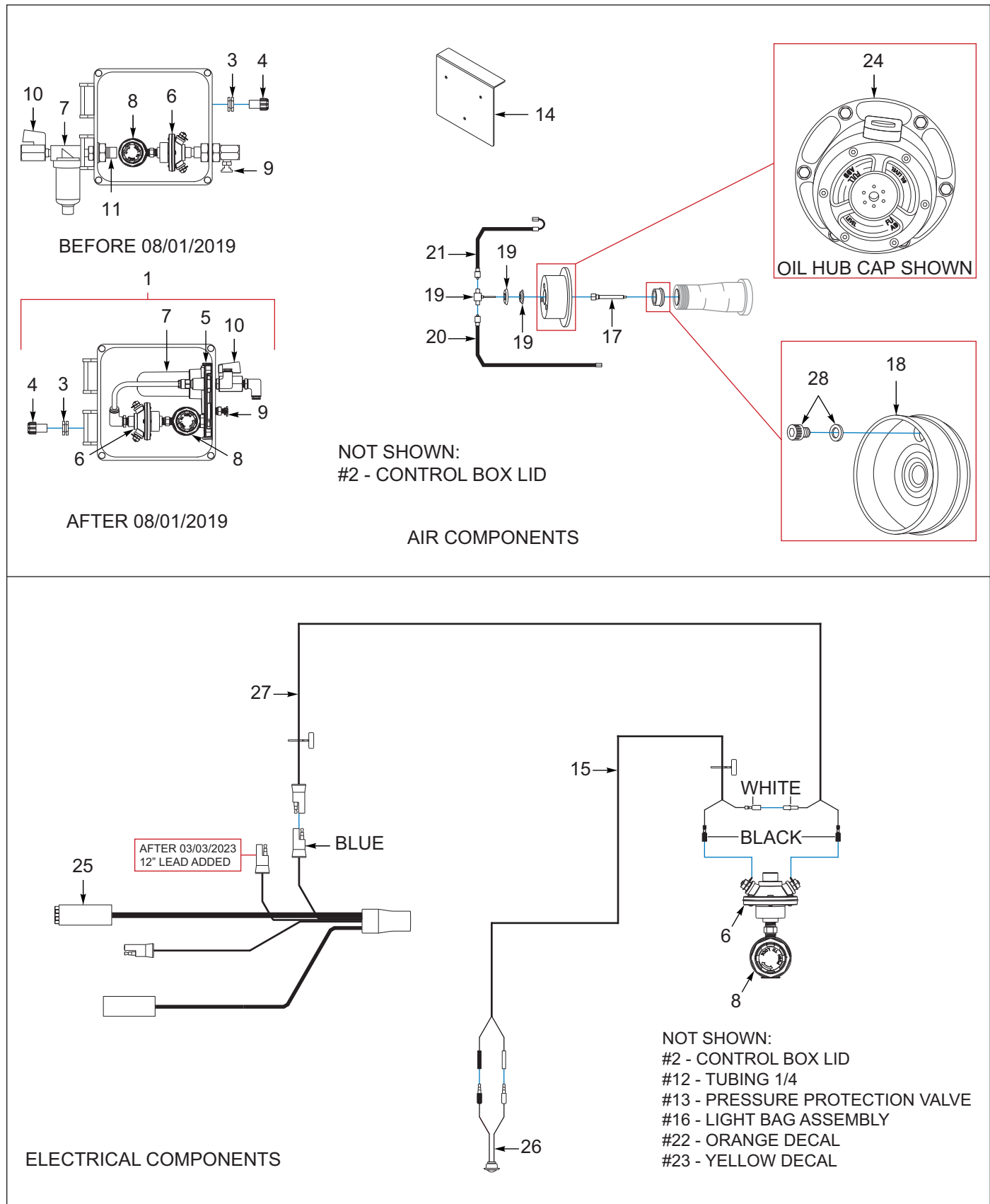
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## Tire Inflation System, Tandem Axle (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                           | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------|------|
|      | 223304          | 2 AXLE TIS TRAVELING AXLE (INCLUDES ITEMS 1-6)                                        | - -  |
| 1    | 1-512-010005-01 | NUT,HEX,SLFLKG GRB 1/4-20                                                             | 3    |
| 2    | 1-654-010047-07 | SCREW,HX CP 1/4-20UNCX1-1/4G5                                                         | 3    |
| 3    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP                                                                    | 3    |
| 4    | 115629          | LOCTITE 592 250ML TUBE (NOT SHOWN)                                                    | 0.25 |
| 5    | 197613          | HUB CAP TIS OIL AXLE                                                                  | 4    |
| 6    | 168593          | THERMALERT TIS 2 AXLE (INCLUDES ITEMS 7-8)<br>(ADDITIONAL COMPONENTS - SEE PAGE 7-19) | 1    |
| 7    | 168610          | THERMALERT PRESS PROT VALVE                                                           | 1    |
| 8    | - - - - -       | TUBING NYLON 1/4 OD (GREEN) (BY THE FOOT)                                             | - -  |
| 9    | 1-297-010008-05 | FITTING,AIR 90 1/4TUBEX1/8NPT                                                         | 2    |
| 10   | 1-297-010008-07 | FITTING AIR 90 1/4TUBEX1/4NPT                                                         | 1    |
| 11   | 1-297-010010-01 | FITTING,AIR,UNION TEE 1/4                                                             | 1    |
| 12   | 2083-8-4S       | NIPPLE HEX 1/2PIPE - 1/4PIPE                                                          | 1    |



## Tire Inflation System, Air & Electrical Components (OPTION)



**Figure 7-10: Tire Inflation System, Air & Electrical Components (OPTION)**

## Tire Inflation System, Air & Electrical Components (OPTION)

| ITEM | PART NUMBER | DESCRIPTION                                                                                                            | QTY |
|------|-------------|------------------------------------------------------------------------------------------------------------------------|-----|
|      | 201030      | THERMALERT TIS 1 AXLE (INCLUDES ITEMS 1-23)                                                                            | --  |
|      | 168593      | THERMALERT TIS 2 AXLE (INCLUDES ITEMS 1-23)                                                                            | --  |
| 1    | 168618      | THERMALERT CONTROL BOX<br>(BEFORE 08/01/2019 INCLUDES ITEMS 2-4, 6-11)<br>(AFTER 08/01/2019 INCLUDES ITEMS 2-10)       | 1   |
| 2    | 216705      | CONTROL BOX LID (180226) (NOT SHOWN)                                                                                   | 1   |
| 3    | 106-0006    | NUT 1/2 CONDUIT STL                                                                                                    | 1   |
| 4    | 20125       | STRAIN RELIEF, 1/4TO3/8                                                                                                | 1   |
| 5    | 230613      | MTIS MANIFOLD ASSY (AFTER 08/01/2019)<br>(INCLUDES ITEMS 7-8 PLUS GASKET, 4 SCREWS & 8" AIR LINE)                      | 1   |
| 6    | 180229      | FLOW SENSE SWITCH (216704)                                                                                             | 1   |
| 7    | 180228      | SELF-DRAINING FILTER (BEFORE 08/01/2019)                                                                               | 1   |
| 7    | -----       | PARTICULATE FILTER ASSEMBLY<br>(AFTER 08/01/2019 INCLUDED WITH ITEM 5)<br>(INCLUDES FILTER 31104-00 AND BOWL 31105-00) | --  |
| 8    | 180224      | PRESSURE REGULATOR VALVE (216708) (BEFORE 08/01/2019)                                                                  | 1   |
| 8    | -----       | PRESSURE REGULATOR (AFTER 08/01/2019 INCLUDED WITH<br>ITEM 5)                                                          | --  |
| 9    | 180225      | PETCOCK (216706)                                                                                                       | 1   |
| 10   | 180223      | SHUT-OFF VALVE (216709)                                                                                                | 1   |
| 11   | 180227      | BULKHEAD/CHECK VALVE (BEFORE 08/01/2019 ONLY)                                                                          | 1   |
| 12   | -----       | TUBING NYLON 1/4 OD<br>(1 AXLE - SEE PAGE 7-15) (2 AXLE - SEE PAGE 7-17)                                               | --  |
| 13   | 168610      | THERMALERT PRESS PROT VALVE<br>(1 AXLE - SEE PAGE 7-15) (2 AXLE - SEE PAGE 7-17)                                       | 1   |
| 14   | 168611      | THERMALERT CNTRL BOX BRKT                                                                                              | 1   |
| 15   | 168613      | THERMALERT WIRING HARNESS                                                                                              | 1   |
| 16   | 168614      | THERMALERT LIGHT BAG ASSY (NOT SHOWN)                                                                                  | 1   |
| 17   | 168616      | THERMALERT STAT & FILTER ASSY (PER AXLE)                                                                               | 2   |
| 18   | 168617      | THERMALERT PRESS PLUG ASSY (PER AXLE)                                                                                  | 2   |
| 19   | 178592      | THRU TEE ASSEMBLY 4.25" (INCLUDES SHIELD & VENT CAP)<br>(PER AXLE)                                                     | 2   |
| 20   | 180839      | TIS LONG HOSE (17" LONG) (PER AXLE)                                                                                    | 2   |
| 21   | 180840      | TIS SHORT HOSE (13-1/2" LONG) (PER AXLE)                                                                               | 2   |
| 22   | 205836      | ORANGE WARNING DECAL MTIS (NOT SHOWN)                                                                                  | 1   |
| 23   | 205837      | YELLOW WARNING DECAL MTIS (NOT SHOWN)                                                                                  | 2   |
| 24   | 197318      | HUB CAP MTIS GREASE AXLE (OPTION) (PER AXLE)                                                                           | 2   |
| 24   | 197613      | HUB CAP MTIS OIL AXLE (STANDARD) (PER AXLE)                                                                            | 2   |
| 25   | 143103      | HARNESS ECHAIN GROTE (AFTER 03/03/2023, 12" LEAD ADDED)                                                                | --  |
| 26   | 183413      | LIGHT, WHT LED .75 CL/MK GROTE                                                                                         | 1   |
| 27   | 202207      | HARNESS MOD, MTIS POWER ASSY                                                                                           | 1   |
| 28   | 228069      | THERMALERT THERMAL PLUG KIT<br>(INCLUDES 1 PLUG AND 1 GASKET)                                                          | 1   |

# Electrical System

## Frame, Harness & Lights

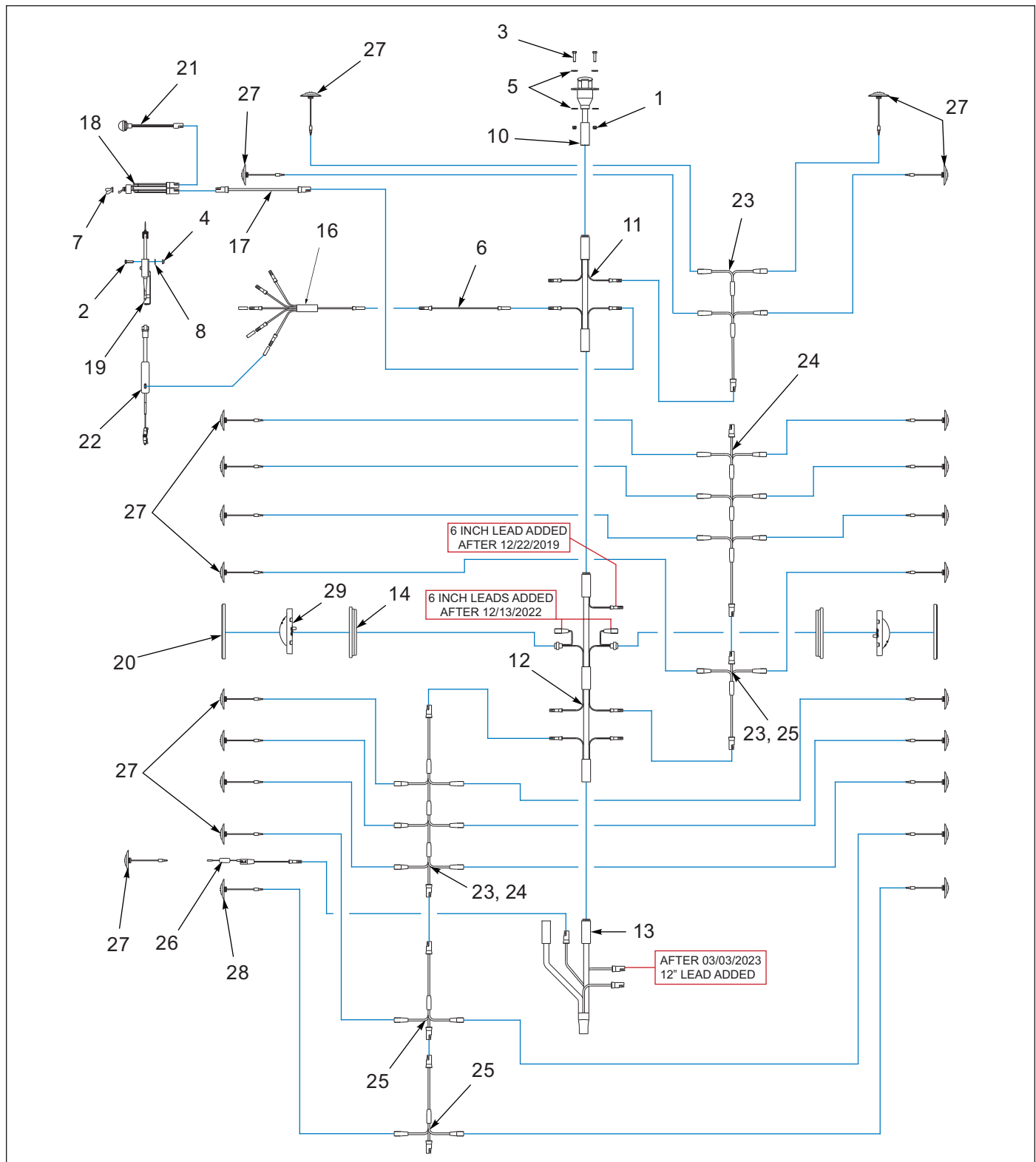


Figure 8-1: Frame, Harness & Lights

## Frame Harness & Lights

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                    | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------|------|
|      | 200498          | HYD ELE AIR 330D-1&2 42' SLA RMT                                                                               | --   |
|      | 200505          | HYD ELE AIR 330D-1 50'/53' SLA NO RMT                                                                          |      |
| 1    | 1-512-010005-03 | NUT HEX SLFLKG GRB 5/16-18                                                                                     | 2    |
| 2    | 1-654-010047-06 | SCREW,HX CP 1/4-20UNCX1 GR5 <b>(BEFORE 08/01/2019)</b>                                                         | 2    |
| 2    | 1-654-010024055 | SCREW,MACH,FLSTR,#10-24X1-1/4 <b>(AFTER 08/01/2019)</b>                                                        | 2    |
| 3    | 1-654-010049-06 | SCREW,HX CP 1/4-20UNCX1 GR5 <b>(BEFORE 08/01/2019)</b>                                                         | 2    |
| 4    | 1-861-010032-07 | WASHER,FLAT 1/4 ZP <b>(BEFORE 08/01/2019, 8 EACH)</b>                                                          | 6    |
| 5    | 1-861-010032-09 | WASHER, FLAT 5/16 W ZP/CD                                                                                      | 4    |
| 6    | 3-368-010252    | HARNESS ASSY BKHD LIGHT EXT <b>(FOR REMOTE ONLY)</b>                                                           | 1    |
| 7    | 81264           | RUBBER BOOT FOR ELECT SWITCH                                                                                   | 1    |
| 8    | 108417          | NUT SPIRAL 1/4-20HX FG <b>(BEFORE 08/01/2019)</b><br><b>(FOR 200498 ONLY)</b>                                  | 2    |
| 8    | 212074          | NUT 10-24 FLANGE HD SERRATED <b>(AFTER 08/01/2019)</b>                                                         | 4    |
| 9    | 130116          | DECAL, ON/OFF LIGHT                                                                                            | 1    |
| 10   | 143100          | HARNESS 7WAY RECP GROTE                                                                                        | 1    |
| 11   | 143101          | HARNESS FRONT MAIN GROTE                                                                                       | 1    |
| 12   | 143102          | HARNESS BED MAIN GROTE                                                                                         | 1    |
| 13   | 143103          | HARNESS ECHAIN GROTE <b>(AFTER 03/03/2023, 12" LEAD ADDED)</b>                                                 | 1    |
| 14   | 143114          | GROMMET OVAL GROTE <b>(BEFORE 01/02/2020)</b>                                                                  | 2    |
| 14   | 213296          | FLANGE CHROME FLAT OBLONG <b>(AFTER 01/02/2020)</b>                                                            | 2    |
| 15   | 143123          | GREASE DIELECTRIC 4 OZ TUBE                                                                                    | .50  |
| 16   | 150093          | HARNESS 5 AUX BRANCHES GROTE <b>(FOR REMOTE ONLY)</b>                                                          | .5   |
| 17   | 150111          | HARNESS 300 IN MALE.FEMALE                                                                                     | 1    |
| 18   | 151117          | TOGGLE SWITCH SEALED S.P.S.T.                                                                                  | 1    |
| 19   | 168648          | RECEIVER/TRANS MACRO KAR SL AX <b>(BEFORE 08/01/2019)</b><br><b>(SEE PAGE 8-5)</b>                             | 1    |
| 19   | 209100          | KIT REMOTE BRAND 6 FUNC SLIDE <b>(AFTER 08/01/2019)</b><br><b>(FOR REMOTE ONLY) (SEE PAGE 8-7)</b>             | 1    |
| 20   | 180570          | COVER CHROME OBLONG GROMMET<br><b>(OBSOLETE AFTER 01/02/2020)</b>                                              | 2    |
| 21   | 185059          | LIGHT,LED COURTESY, GROTE                                                                                      | 1    |
| 22   | 186882          | HARNESS,CONTROL VALVE,DUETSCH <b>(BEFORE 08/01/2019)</b>                                                       | 1    |
| 22   | 164052          | HARNESS,60"BRANCH,WORK LIGHT <b>(AFTER 08/01/2019)</b><br><b>(FOR REMOTE ONLY)</b>                             | 1    |
| 23   | 187855          | HARNESS MARKER UPR DECK                                                                                        | 1    |
| 24   | 187856          | HARNESS MARKER MID DECK                                                                                        | 2    |
| 25   | 187857          | HARNESS MARKER ADDITION<br><b>(1-3 EACH REQUIRED PENDING TRAILER LENTGH)</b>                                   | --   |
| 26   | 187858          | HARNESS ABS LAMP MICRONOVA                                                                                     | 1    |
| 27   | 187863          | LIGHT YEL LED.75CL/MK CLEAR CB <b>(BEFORE 01/02/2020)</b>                                                      | --   |
| 27   | 213297          | LIGHT YEL CLEAR LENS MKR <b>(AFTER 01/02/2020)</b><br><b>(19, 21, 23 EACH REQUIRED PENDING TRAILER LENTGH)</b> | --   |
| 28   | 187864          | LIGHT RED LED.75CL/MK CLEAR CB <b>(BEFORE 01/02/2020)</b>                                                      | 2    |
| 28   | 213298          | LIGHT RED CLEAR LENS MKR <b>(AFTER 01/02/2020)</b>                                                             | 2    |
| 29   | 187868          | LIGHT MID-TURN LED CLEAR LENS                                                                                  | 2    |
| 30   | 194407          | PLUG ASSY DUMMY DEUTSCH 2 PIN <b>(REQUIRE IF NO REMOTE)</b>                                                    | 6    |

## Frame, Harness, Rear Bumper

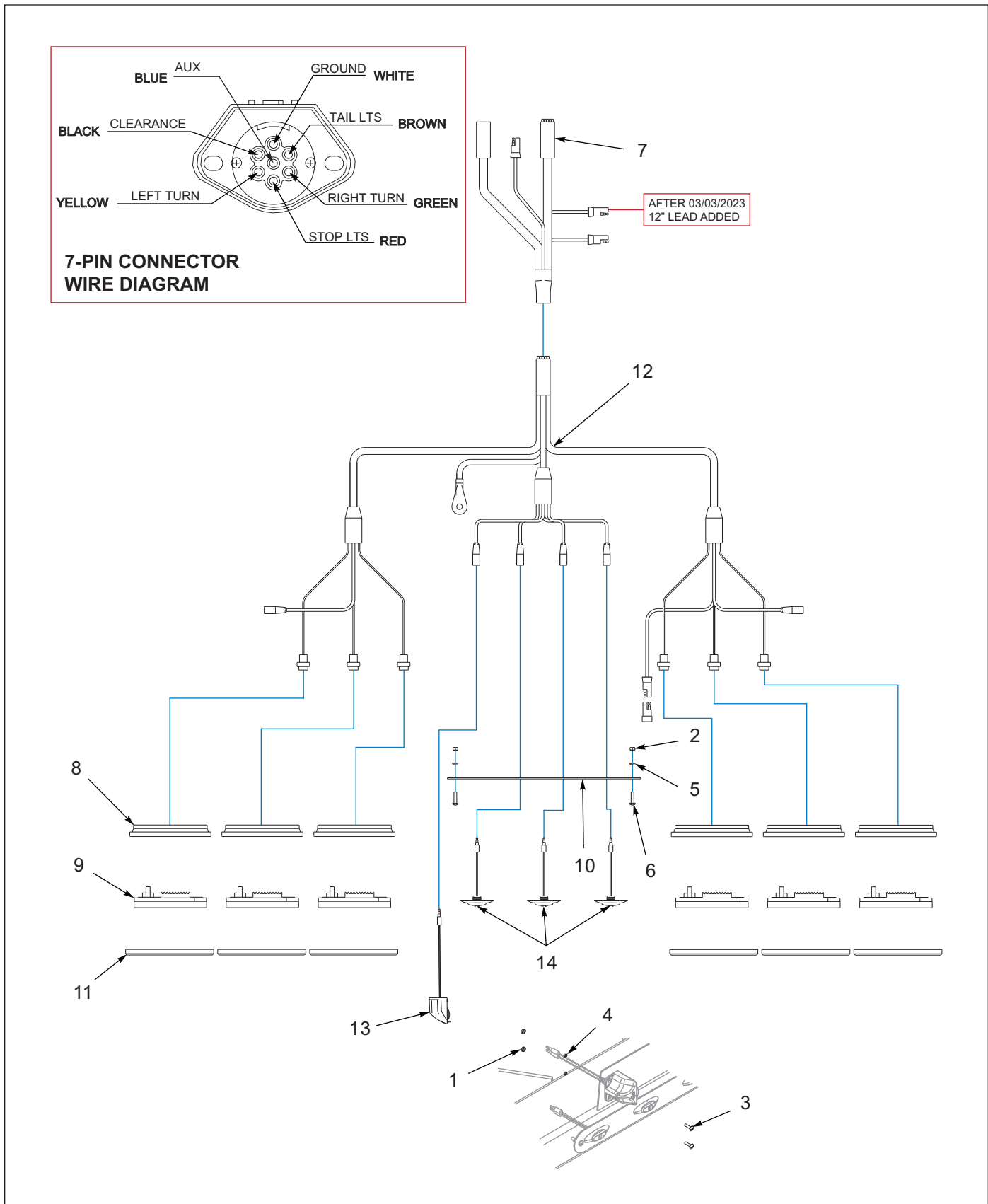


Figure 8-2: Frame, Harness, Rear Bumper

## Frame, Harness, Rear Bumper

| ITEM | PART NUMBER     | DESCRIPTION                                                | QTY. |
|------|-----------------|------------------------------------------------------------|------|
|      | 201115          | SUSP ASSY A/R 330D-1-102                                   | - -  |
| 1    | 1-512-010007-03 | NUT, HEX 10-24 GR2 ZP                                      | 2    |
| 2    | 1-512-010007-05 | NUT, HEX 1/4-20 GR2 ZP                                     | 2    |
| 3    | 1-656-010003051 | SCREW,RH HD MACH 10-24X3/4                                 | 2    |
| 4    | 1-861-010034-07 | WASHER,LKG,HLCL SPR, NO 10                                 | 2    |
| 5    | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                                  | 2    |
| 6    | 108787          | SCREW RD HD MACH 1/4-20X1 (BEFORE 02/04/19)                | 2    |
| 6    | 1-654-010158-1  | SCREW,RHD,SQ NCK,1/4-20UNCX3/4 (AFTER 02/04/2019)          | 2    |
| 7    | 143103          | HARNESS ECHAIN GROTE (AFTER 03/03/2023, 12" LEAD ADDED)    | 1    |
| 8    | 143114          | GROMMET OVAL GROTE (BEFORE 01/02/2020)                     | 6    |
| 8    | 213296          | FLANGE CHROME FLAT OBLONG (AFTER 01/02/2020)               | 6    |
| 9    | 179902          | LIGHT S/T/T RED CLEAR LENS GRT (BEFORE 01/02/2020)         | 6    |
| 9    | 213295          | LIGHT CLEAR LENS S/T/T (AFTER 01/02/2020)                  | 6    |
| 10   | 179906          | PLATE MTG MICRO ID LIGHTS                                  | 1    |
| 11   | 180570          | COVER CHROME OBLONG GROMMET<br>(OBSOLETE AFTER 01/02/2020) | 6    |
| 12   | 187859          | HARNESS BUMPER MICRONOVA GROTE                             | 1    |
| 13   | 187860          | LIGHT ASSY LICENSE LED GROTE                               | 1    |
| 14   | 187864          | LIGHT RED LED.75CL/MK CLEAR CB (BEFORE 01/02/2020)         | 3    |
| 14   | 213298          | LIGHT RED CLEAR LENS MKR (AFTER 01/02/2020)                | 3    |
| 15   | 43029           | HOSE WRAP AEROQUIP 1/4 (NOT SHOWN)                         | 3    |

## Wireless Remote Assembly, Kar-Tech (BEFORE 08/01/2019)



Figure 8-3: Wireless Remote Assembly, Kar-Tech (BEFORE 08/01/2019)

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## Wireless Remote Assembly, Kar-Tech (BEFORE 08/01/2019)

| ITEM | PART NUMBER | DESCRIPTION                                                                                                                                        | QTY. |
|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 168648      | RECEIVER/TRANS MACRO KAR SL AX (INCLUDES ITEMS 1-2)                                                                                                | - -  |
| 1    | 168979      | LANYARD LANDOLL                                                                                                                                    | 1    |
| 2    | 168974      | REMOTE KAR-TECH SLIDE AX (INCLUDES ITEMS 3-6)                                                                                                      | 1    |
| 3    | 168975      | TRANSMITTER (100)                                                                                                                                  | 1    |
| 4    | 175583      | RECEIVER 6FUNCT FOR 138151                                                                                                                         | 1    |
| 5    | 235291      | CHARGER 12V TO MAGNETIC USB<br>(CORD ONLY, REQUIRES ITEM 6)                                                                                        | 1    |
| 6    | 168976      | CHARGER 12V TO MICRO USB<br>(CAR CHARGER W/MICRO USB, REQUIRES ITEM 5)                                                                             | 1    |
| 7    | 168982      | CHARGER 120V TO MICRO USB (NOT INCLUDED)<br>(WALL CHARGER, REQUIRES ITEM 5)                                                                        | 1    |
| 8    | 197460      | BATTERY REPLACE KARTECH MACRO (NOT INCLUDED)<br>(CERTAIN TRANSMITTER MODEL NUMBERS ONLY. FOR<br>COMPATIBILITY, CONTACT LANDOLL SERVICE DEPARTMENT) | 1    |



## Wireless Remote Assembly, Brand (AFTER 08/01/2019)

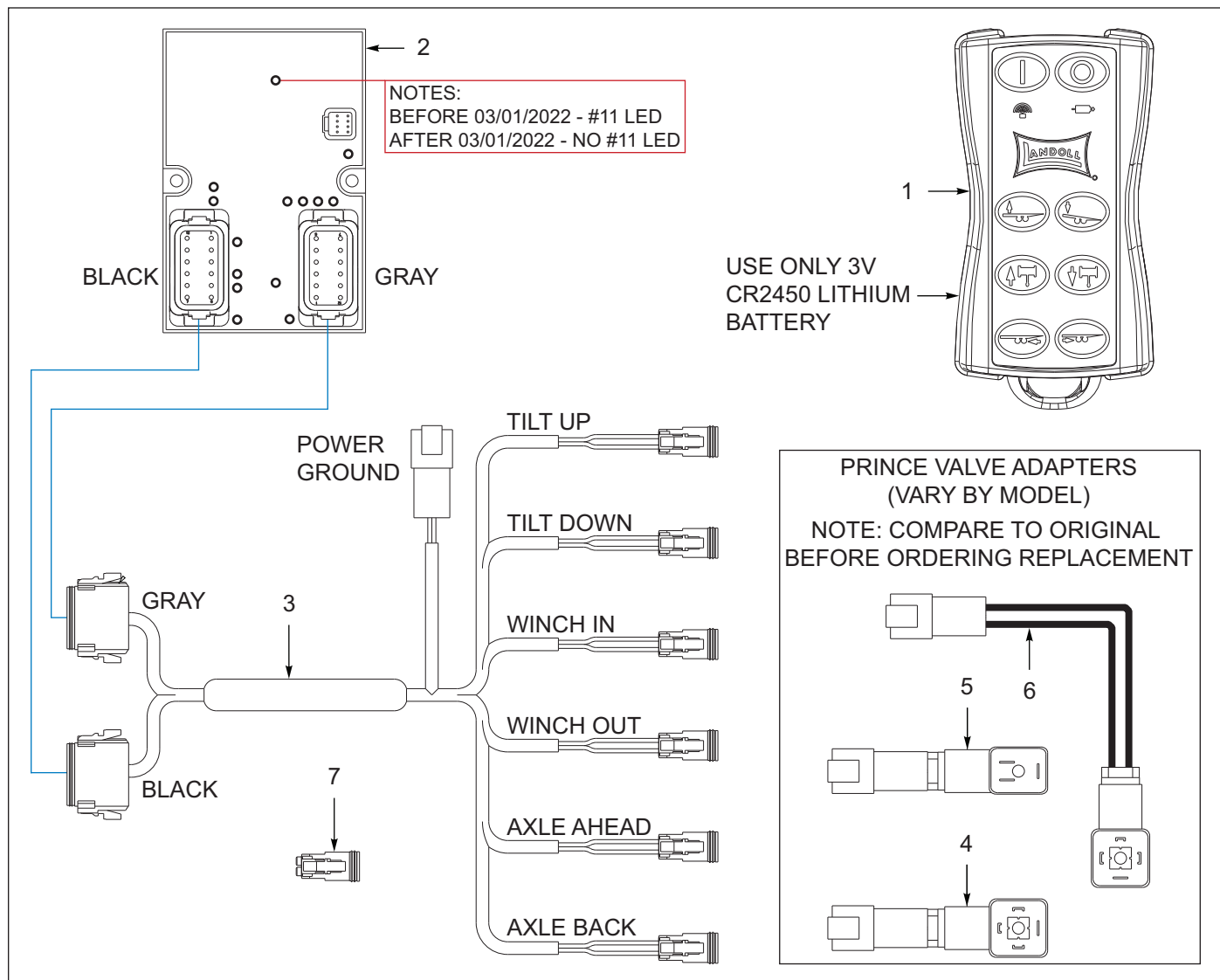


Figure 8-4: Wireless Remote Assembly, Brand (AFTER 08/01/2019)

## Wireless Remote Assembly, Brand (AFTER 08/01/2019)

| ITEM | PART NUMBER | DESCRIPTION                                                                                                                           | QTY. |
|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 209100      | KIT REMOTE BRAND 6 FUNC SLIDE (INCLUDES ITEMS 1-3)                                                                                    | --   |
| 1    | 209101      | TRANSMITTER 6 FUNC SLIDE AX                                                                                                           | 1    |
| 2    | 209102      | RECEIVER 6 FUNC SIDE AX                                                                                                               | 1    |
| 3    | 209103      | HARNESS RECEIVER 6 FUNC SLIDE                                                                                                         | 1    |
| 4    | 218023      | ADAPTER DIN 43/2PIN DUTSCH (PRINCE VALVES ONLY)<br>(NOT INCLUDED - COMPARE TO INSTALLED ADAPTERS)                                     | --   |
| 5    | 220692      | ADAPTER DIN46/2PIN DUTSCH (PRINCE VALVES ONLY)<br>(NOT INCLUDED - COMPARE TO INSTALLED ADAPTERS)                                      | --   |
| 6    | 229494      | ADAPTER DIN/2PIN DUTSCH 6IN (PRINCE VALVES ONLY)<br>(NOT INCLUDED - COMPARE TO INSTALLED ADAPTERS)                                    | --   |
| 7    | 194407      | PLUG ASSY DUMMY DEUTSCH 2 PIN (NOT INCLUDED - PLUGS<br>VALVE CONNECTIONS ON NEWER VALVE ASSEMBLIES IF<br>REMOTE OPTION NOT AVAILABLE) | --   |

[illegible]

# Grease System

## Frame, Single Axle Assembly

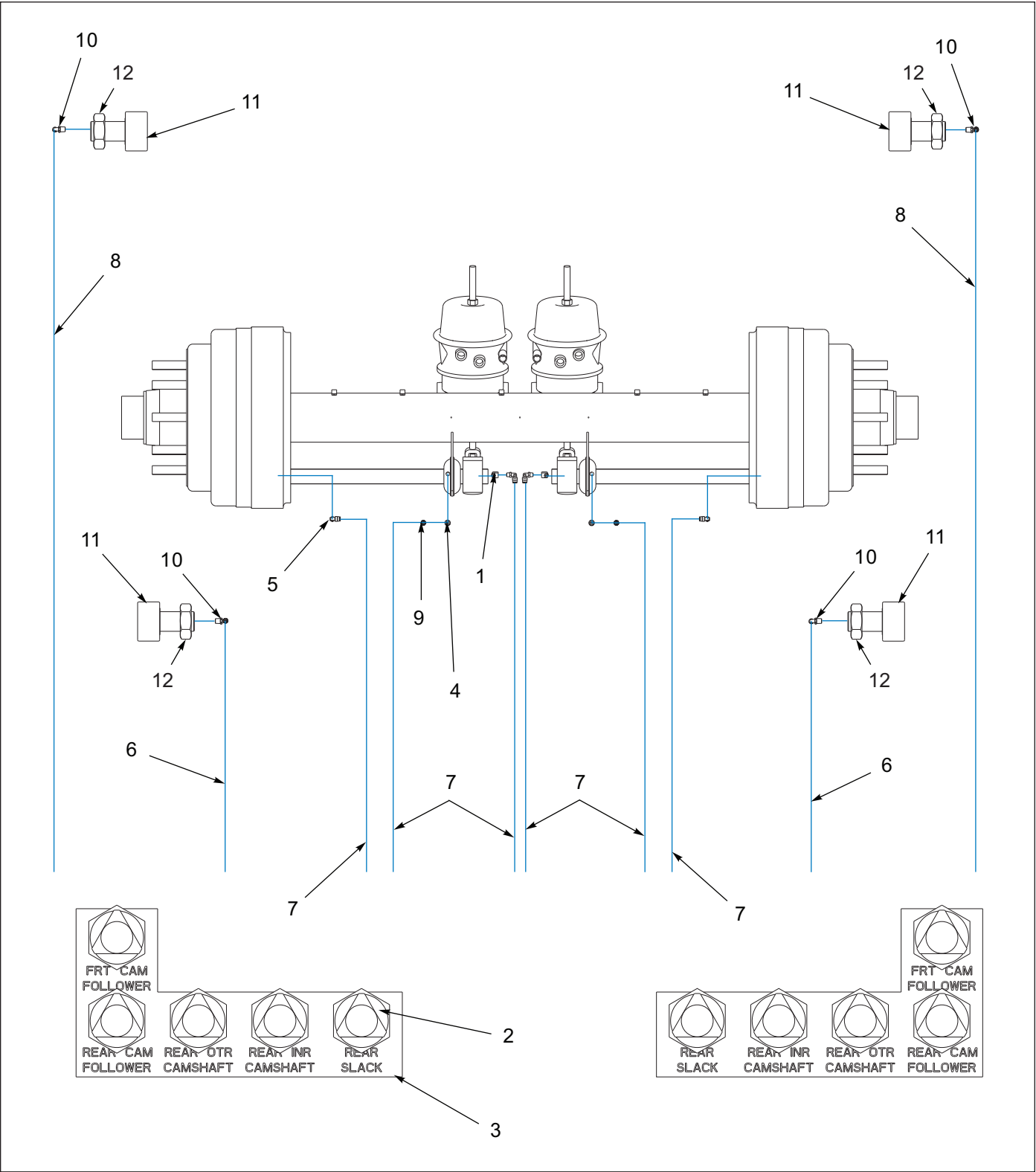


Figure 9-1: Frame, Single Axle Assembly

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## Frame, Single Axle Assembly

| ITEM | PART NUMBER  | DESCRIPTION                                         | QTY. |
|------|--------------|-----------------------------------------------------|------|
|      | 201115       | SUSP ASSY A/R 330D-1-102 SLA                        | - -  |
| 1    | 101528       | ELBOW,BRASS PIPE STREET                             | 2    |
| 2    | 142545       | NUT 7/16 FOR BULKHEAD                               | 10   |
| 3    | 142553       | DECAL, GREASE TRL U/C                               | 2    |
| 4    | 202094       | ADAPTER 5/16- -18X1/8NPT(F)                         | 2    |
| 5    | 202099       | FITTING GREASE 90 SWIV PTC 1/8                      | 4    |
| 6    | 202103       | HOSE ASSY GREASE 1/8 X 45                           | 2    |
| 7    | 202106       | HOSE ASSY GREASE 1/8 X 72                           | 6    |
| 8    | 202118       | HOSE ASSY GREASE 1/8 X 156                          | 2    |
| 9    | 216599       | FITTING,GREASE 1/4 TUBE X 1/8                       | 2    |
| 10   | 216600       | FITTING GREAST 90SWIV P-T-C1/4                      | 4    |
| 11   | 3-076-010005 | CAM FOLLOWER 4 IN DIA                               | 4    |
| 12   | 104034       | NUT, HEX 2-12UN, GRB, ZP (ASSEMBLY - SEE PAGE 3-37) | 4    |

## Frame, Tandem Axle Assembly

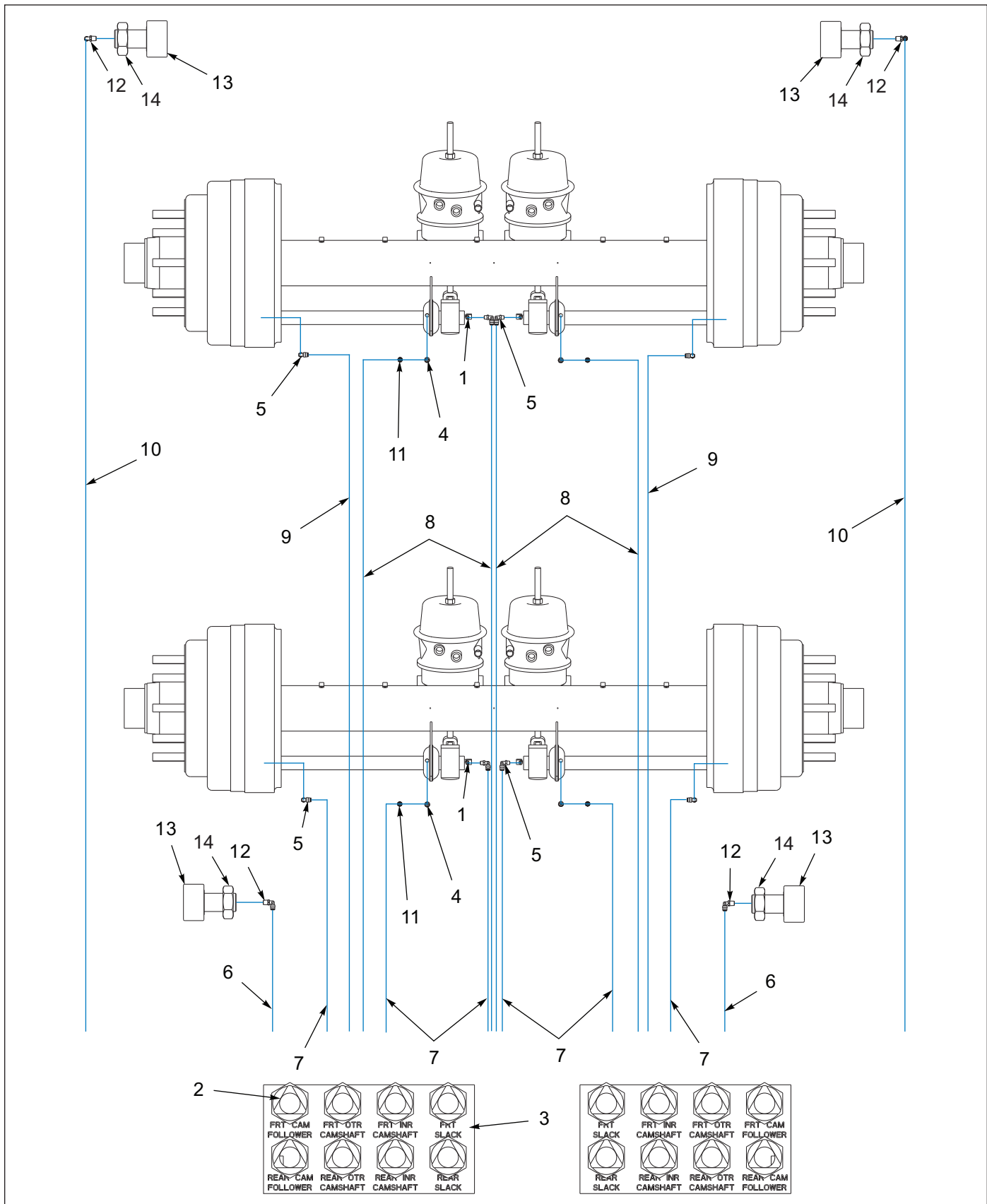


Figure 9-2: Frame, Tandem Axle Assembly

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## Frame, Tandem Axle Assembly

| ITEM | PART NUMBER  | DESCRIPTION                                         | QTY. |
|------|--------------|-----------------------------------------------------|------|
|      | 201099       | SUSP A/R 330D-2-102 SLA                             | - -  |
| 1    | 101528       | ELBOW,BRASS PIPE STREET                             | 4    |
| 2    | 142545       | NUT 7/16 FOR BULKHEAD                               | 16   |
| 3    | 142553       | DECAL, GREASE TRL U/C                               | 2    |
| 4    | 202094       | ADAPTER 5/16- -18X1/8NPT(F)                         | 4    |
| 5    | 202099       | FITTING GREASE 90 SWIV PTC 1/8                      | 8    |
| 6    | 202103       | HOSE ASSY GREASE 1/8 X 45                           | 2    |
| 7    | 202106       | HOSE ASSY GREASE 1/8 X 72                           | 6    |
| 8    | 202112       | HOSE ASSY GREASE 1/8 X 118                          | 4    |
| 9    | 202113       | HOSE ASSY GREASE 1/8 X 126                          | 2    |
| 10   | 202118       | HOSE ASSY GREASE 1/8 X 156                          | 2    |
| 11   | 216599       | FITTING,GREASE 1/4 TUBE X 1/8                       | 4    |
| 12   | 216600       | FITTING GREASE 90SWIV P-T-C1/4                      | 4    |
| 13   | 3-076-010005 | CAM FOLLOWER 4 IN DIA                               | 4    |
| 14   | 104034       | NUT, HEX 2-12UN, GRB, ZP (ASSEMBLY - SEE PAGE 3-37) | 4    |

# Hydraulic System

## Connectors, Front Sub Assembly, Air & Hydraulic

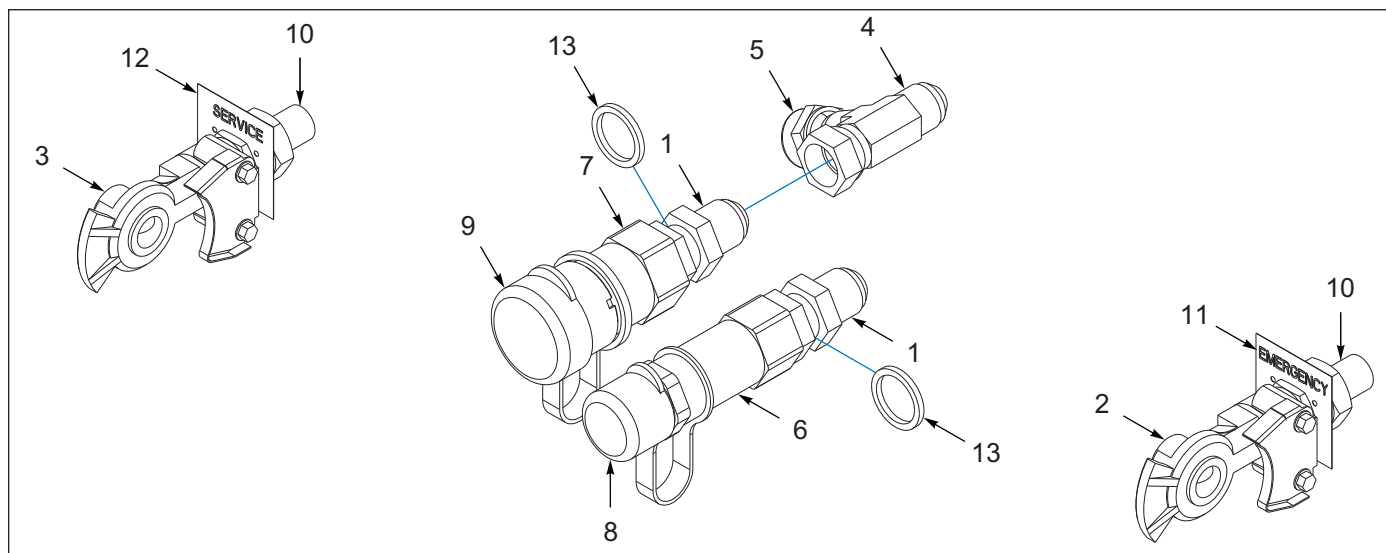


Figure 10-1: Connectors, Front Sub Assembly, Air & Hydraulic

## Connectors, Front Sub Assembly, Air & Hydraulic

| ITEM | PART NUMBER   | DESCRIPTION                                                                                            | QTY. |
|------|---------------|--------------------------------------------------------------------------------------------------------|------|
|      | 143163        | CONNECTORS FRONT SUB ASSY (INCLUDES ITEMS 1-12)<br>(BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED) | --   |
|      | 238642        | COUPLERS ISO FRONT SUB ASSY (INCLUDES ITEMS 1-12)<br>(AFTER 03/01/2022 - REPLACES 143163)              | --   |
| 1    | 105483        | ADAPTER BLKHD 12JIC-12 ORING                                                                           | 2    |
| 2    | 108801        | GLAD HAND-RED-AIR (INCLUDES SEAL 209133)                                                               | 1    |
| 3    | 108802        | GLAD HAND-BLUE-AIR (INCLUDES SEAL 209133)                                                              | 1    |
| 4    | 203102-12-12S | ADAPTER, TEE, #12, SAE37 SWIVL                                                                         | 1    |
| 5    | 210292-12S    | JIC CAP NUT #12                                                                                        | 1    |
| 6    | 105479        | COUPLER FLAT FACE MALE NOSE (PARTS - SEE PAGE 10-17)<br>(BEFORE 03/01/2022 - SILVER BODY)              | 1    |
| 6    | 239677        | COUPLER FL FACE ISO -12 MALE (PARTS - SEE PAGE 10-17)<br>(AFTER 03/01/2022 - BLACK BODY)               | 1    |
| 7    | 105480        | COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 10-17)<br>(BEFORE 03/01/2022)                          | 1    |
| 7    | 239678        | COUPLER FL FACE ISO -12 FEMALE (PARTS - SEE PAGE 10-17)<br>(AFTER 03/01/2022)                          | 1    |
| 8    | 105481        | COUPLER DUST CAP MALE (BEFORE 03/01/2022)                                                              | 1    |
| 8    | 239679        | DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)                                                       | 1    |
| 9    | 105482        | COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)                                                            | 1    |
| 9    | 239680        | DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)                                                      | 1    |
| 10   | 55B61         | FRAME UNION                                                                                            | 2    |
| 11   | 55B61-6       | TAG EMER LINE VELVAC 035025                                                                            | 1    |
| 12   | 55B61-7       | TAG SERVICE LINE VELVC 035026                                                                          | 1    |
| 13   | 169365        | SPACER HYDR COUPLERS (USED BEFORE 02/01/202, REQ 2<br>EACH - AFTER HEX RETAINER WELDED TO FRAME)       | --   |

[illegible]



## Fifth Wheel

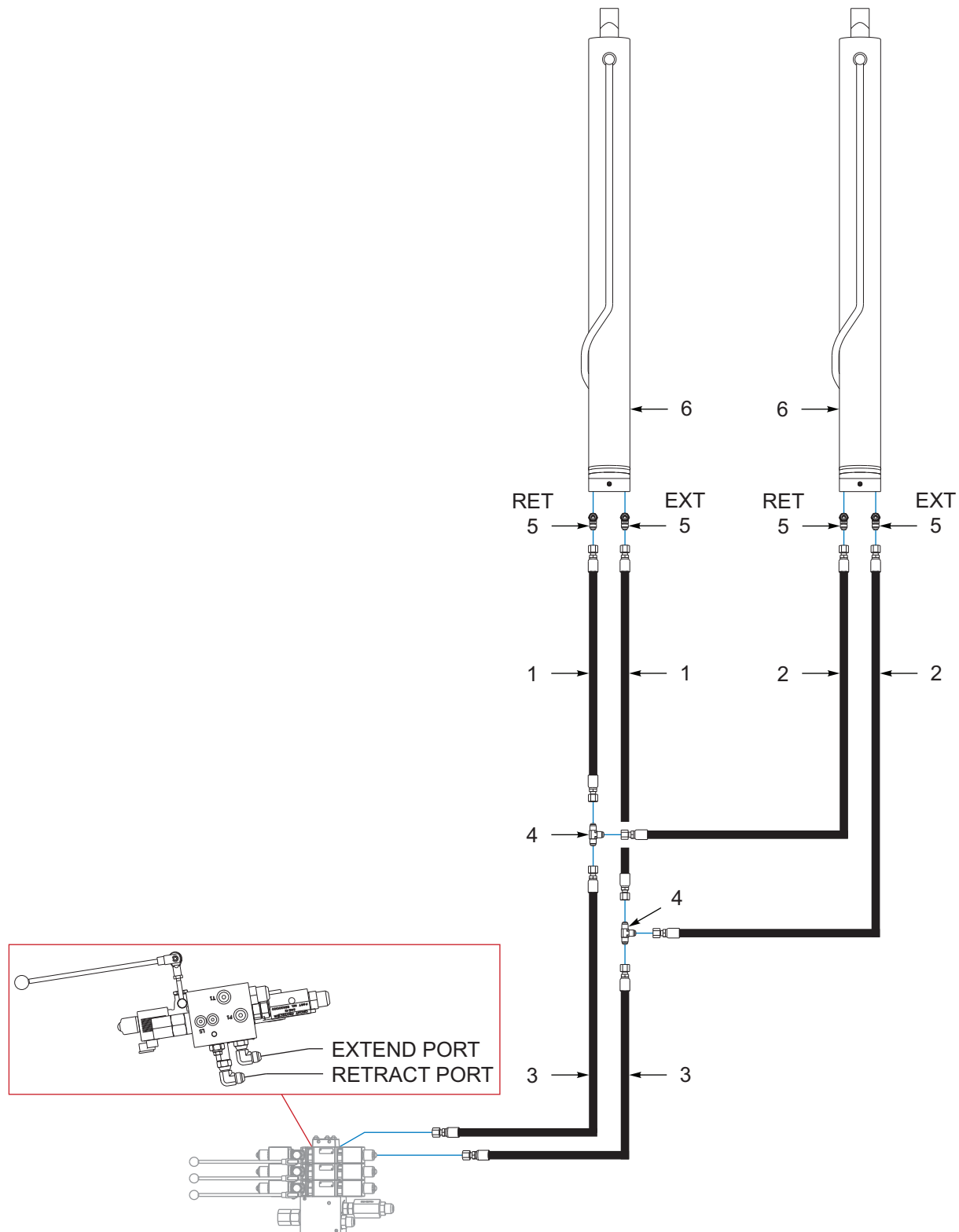


Figure 10-2: Fifth Wheel

## Fifth Wheel

| ITEM | PART NUMBER     | DESCRIPTION                                             | QTY. |
|------|-----------------|---------------------------------------------------------|------|
|      | 201067          | HITCH INSTL 30PIN, 330D-42                              | - -  |
| 1    | 1-397-010301025 | HOSE ASSY,1/2SAE37, STR-STR25 <b>(DROP DECK)</b>        | 2    |
| 1    | 111301          | HOSE ASSY 1/2X36,SAE37,STR-ST <b>(FLAT DECK)</b>        | 2    |
| 2    | 1-397-010301042 | HOSE ASSY 1/2X42,SAE 37,STR <b>(DROP DECK)</b>          | 2    |
| 2    | 1406044         | HOSE ASSY 1/2X60SAE37STR-STR <b>(FLAT DECK)</b>         | 2    |
| 3    | 1406046         | HOSE ASSY,1/2X117,SAE37,STR <b>(42 FOOT BED)</b>        | 2    |
| 3    | 187439          | HOSE ASY 1/2X214,SAE37 STR-STR <b>(48 FOOT BED)</b>     | 2    |
| 3    | 1-397-010301238 | HOSE ASSY 1/2X238,SAE37, STR <b>(51 FOOT BED)</b>       | 2    |
| 3    | 1-397-010301244 | HOSE ASSY, 1/2X244, SAE 37 <b>(53 FOOT BED)</b>         | 2    |
| 4    | 2033-8-8S       | ADAPTER, TEE, #8 TUBE                                   | 2    |
| 5    | 2061-8-8S       | ADAPTER, 45, #8 O-RING-TUBE <b>(BEFORE 08/29/2022)</b>  | 4    |
| 5    | 2062-8-8S       | ADAPTER, 90, #8 O-RING-TUBE <b>(AFTER 08/29/2022)</b>   | 4    |
| 6    | 200497          | CYLINDER 4X42 W/CB <b>(COMPONENTS - SEE PAGE 10-12)</b> | 2    |

## Standard & Low Load Angle Cylinder Assembly

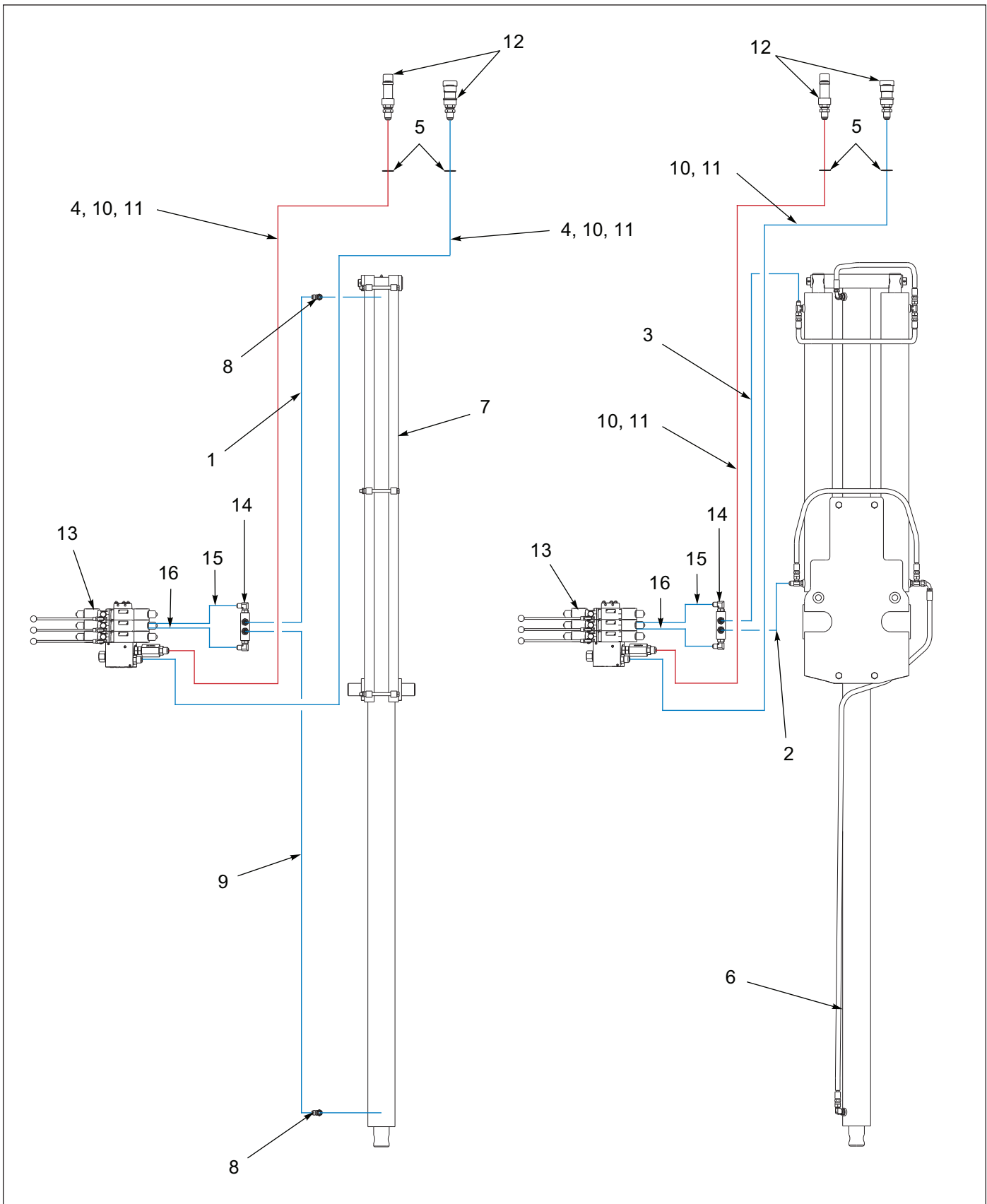


Figure 10-3: Standard & Low Load Angle Cylinder Assembly

## Standard & Low Load Angle Cylinder Assembly

| ITEM | PART NO.        | DESCRIPTION                                                                                               | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------------------|------|
|      | 200498          | HYD ELE AIR 330D-1&2 42' SLA RMT                                                                          | --   |
|      | 200508          | HYD ELE AIR 330D-1 48' LLA RMT                                                                            | --   |
| 1    | 1-397-010301130 | HOSE ASSY,1/2X130,SAE37,STR (STANDARD LOAD ANGLE)                                                         | 1    |
| 2    | 1-397-010302042 | HOSE ASSY,1/2X42,SAE37,STR-90 (LOW LOAD ANGLE)                                                            | 1    |
| 3    | 1-397-010305254 | HOSE ASSY 3/4X254,SAE37,STR90 (LOW LOAD ANGLE)                                                            | 1    |
| 4    | 1-397-010302112 | HOSE ASSY,1/2X112,SAE37,STR90 (42 FOOT TRAILER SLA)                                                       | 2    |
| 5    | 1-861-010059-21 | WASHER,LKG,INTL TOOTH 1-1/8                                                                               | --   |
| 6    | 3-242-010152-02 | CYL ASSY LOW LOAD ANGLE 330                                                                               | --   |
| 7    | 3-242-010153    | CYLINDER ASSY,STD LOAD ANGLE                                                                              | --   |
| 8    | 2062-8-8S       | ADAPTER, 90, #8 O-RING-TUBE (STANDARD LOAD ANGLE)                                                         | 2    |
| 9    | 100063          | HOSE ASSY 1/2X92,SAE37,ST-ST (STANDARD LOAD ANGLE)                                                        | 1    |
| 10   | 100064          | HOSE ASSY 3/4X302,SAE37,STR90 (48 & 50 FOOT TRAILER)                                                      | 2    |
| 11   | 128028          | HOSE ASSY 3/4X362 SAE37 STR90 (53 FOOT TRAILER)                                                           | 2    |
| 12   | 143163          | CONNECTORS FRONT SUB ASSY (REPAIR - SEE PAGE 10-1)<br>(BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED) | 1    |
| 12   | 238642          | COUPLERS ISO FRONT SUB ASSY (REPAIR - SEE PAGE 10-1)<br>(AFTER 03/01/2022 - REPLACES 143163)              | 1    |
| 13   | 194439          | VALVE REXROTH ASSY 300A (VALVE ASSEMBLY - SEE PAGE 10-13)                                                 | 1    |
| 14   | 197450          | VALVE DUAL CB ASSY 343A                                                                                   | 1    |
| 15   | 1422896         | HOSE ASSY OUTLET LOOP (BEFORE 03/20/2023)                                                                 | 2    |
| 15   | 1-397-010301024 | HOSE ASSY1/2X24 SAE37,STR-STR (AFTER 03/20/2023)                                                          | 1    |
| 16   | 1-397-010301028 | HOSE ASSY,1/2X28,SAE37,STR-ST (AFTER 03/20/2023)                                                          | 1    |

## Chain Drive System

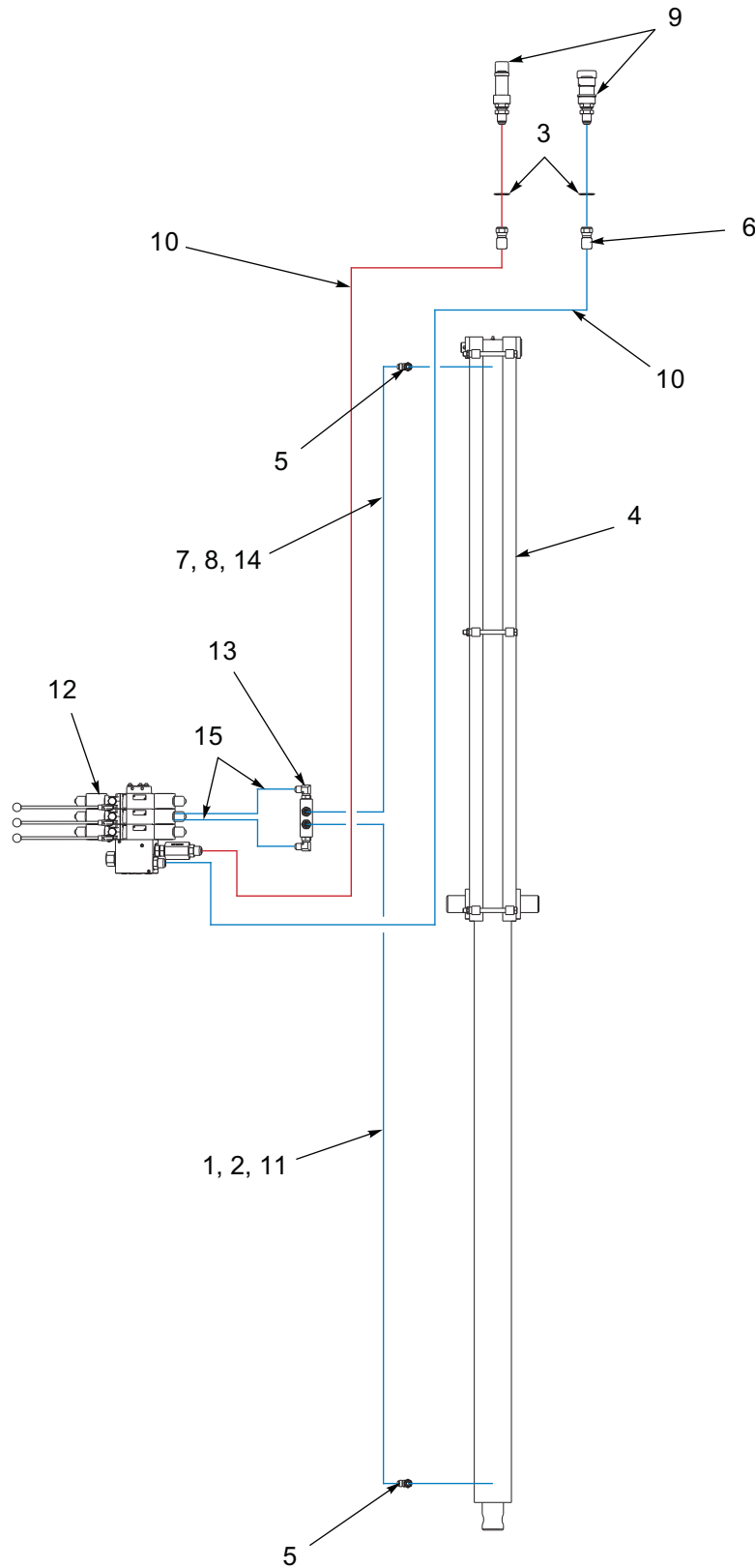


Figure 10-4: Chain Drive System

## Chain Drive System

| ITEM | PART NO.        | DESCRIPTION                                                                                                             | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------|------|
|      | 200516          | HYD ELECT AIR 330D-42CHN W/RMT                                                                                          | --   |
|      | 200520          | HYD ELE AIR 330D-53 CHAIN RMT                                                                                           | --   |
|      | 200522          | HYD ELE AIR 330D-50 CHAIN RMT                                                                                           | --   |
| 1    | 1-397-010301130 | HOSE ASSY,1/2X130,SAE37,STR <b>(FOR 42 ONLY)</b>                                                                        | 1    |
| 2    | 1-397-010301238 | HOSE ASSY 1/2X238,SAE37, STR <b>(FOR 50 ONLY)</b>                                                                       | 1    |
| 3    | 1-861-010059-21 | WASHER,LKG,INTL TOOTH 1-1/8                                                                                             | 2    |
| 4    | 3-242-010153    | CYLINDER ASSY,STD LOAD ANGLE                                                                                            | 1    |
| 5    | 2062-8-8S       | ADAPTER, 90, #8 O-RING-TUBE                                                                                             | 2    |
| 6    | 2071-12-12S     | ADAPTER 90 #12FLR SWVL #12JIC                                                                                           | 2    |
| 7    | 51039-23        | HOSE ASSY 1/2X106 SAE37 STR <b>(FOR 50 ONLY)</b>                                                                        | 1    |
| 8    | 100063          | HOSE ASSY 1/2X92,SAE37,ST-ST <b>(FOR 42 ONLY)</b>                                                                       | 1    |
| 9    | 143163          | CONNECTORS FRONT SUB ASSY <b>(REPAIR - SEE PAGE 10-1)</b><br><b>(BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED)</b> | 1    |
| 9    | 238642          | COUPLERS ISO FRONT SUB ASSY <b>(REPAIR - SEE PAGE 10-1)</b><br><b>(AFTER 03/01/2022 - REPLACES 143163)</b>              | 1    |
| 10   | 158040          | HOSE ASSY 3/4X280,SAE37,STR90                                                                                           | 2    |
| 11   | 181590          | HOSE ASSY,1/2X154,SAE37,STR <b>(FOR 53 ONLY)</b>                                                                        | 1    |
| 12   | 194439          | VALVE REXROTH ASSY 300A                                                                                                 | 1    |
| 13   | 197450          | VALVE DUAL CB ASSY 343A                                                                                                 | 1    |
| 14   | 1406046         | HOSE ASSY,1/2X117,SAE37,STR <b>(FOR 53 ONLY)</b>                                                                        | 1    |
| 15   | 1422896         | HOSE ASSY OUTLET LOOP                                                                                                   | 2    |

## Cylinder Assembly, Standard Load Angle

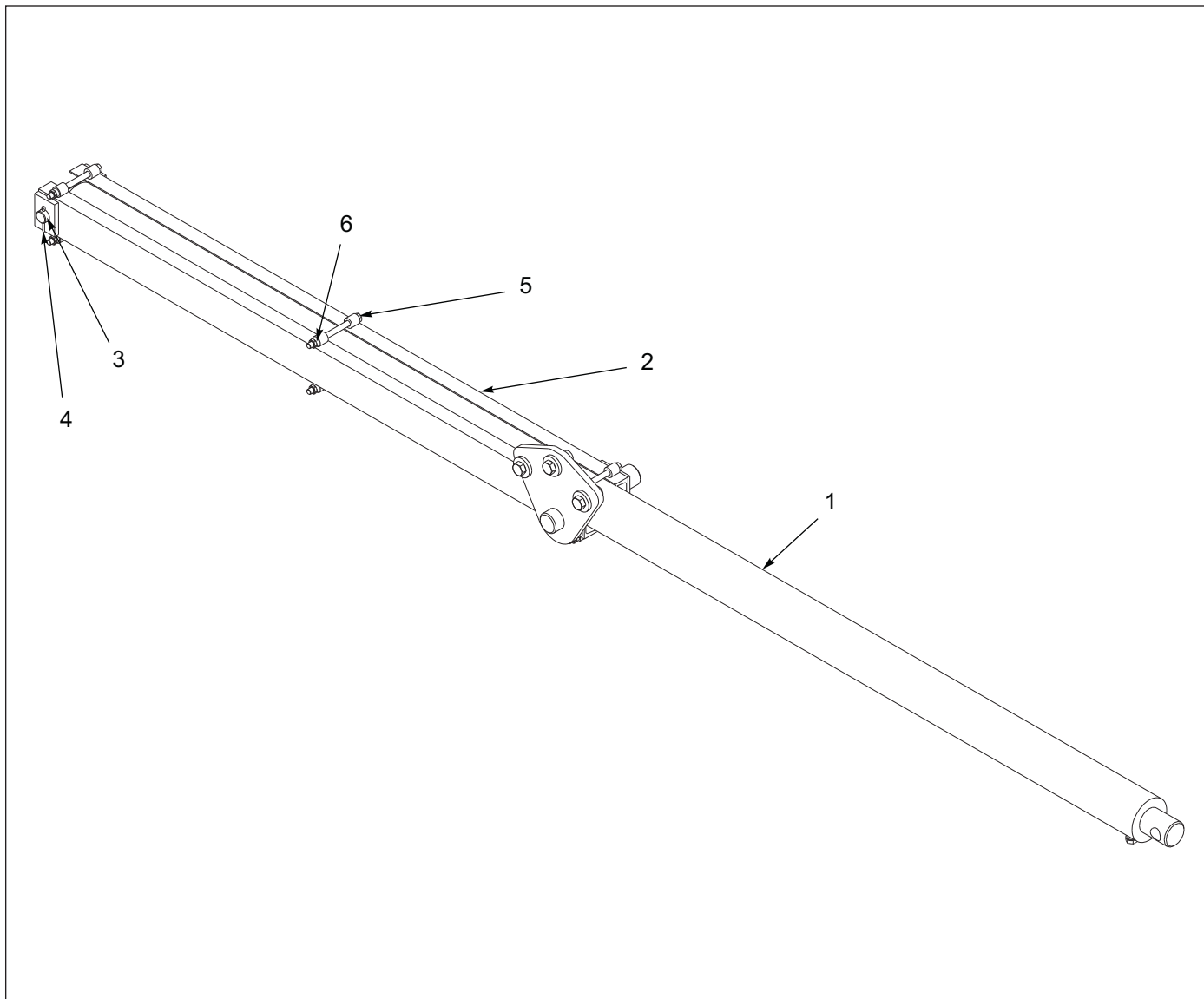


Figure 10-5: Cylinder Assembly, Standard Load Angle

## Cylinder Assembly, Standard Load Angle

| ITEM | PART NO.        | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 3-242-010153    | CYLINDER ASSY,STD LOAD ANGLE  | --   |
| 1    | 3-242-010102    | CYLINDER HYDR 4X126 O-RING    | 1    |
| 2    | 3-120-010073    | BRKT ASSY CYL TRUNION         | 2    |
| 3    | 3-557-010033    | PIN CYL BUTT END              | 1    |
| 4    | 1-557-010362-54 | PIN, COTTER 3/16X2-1/4        | 1    |
| 5    | 1-654-010055-17 | SCREW,HEX CAP,1/2-13UNCX6 GR5 | 6    |
| 6    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB    | 6    |
| 7    | 1-298-010001-1  | ZERK FITTING 1/4 SAE          | 1    |

## Cylinder Assembly, Low Load Angle (317 / 318)

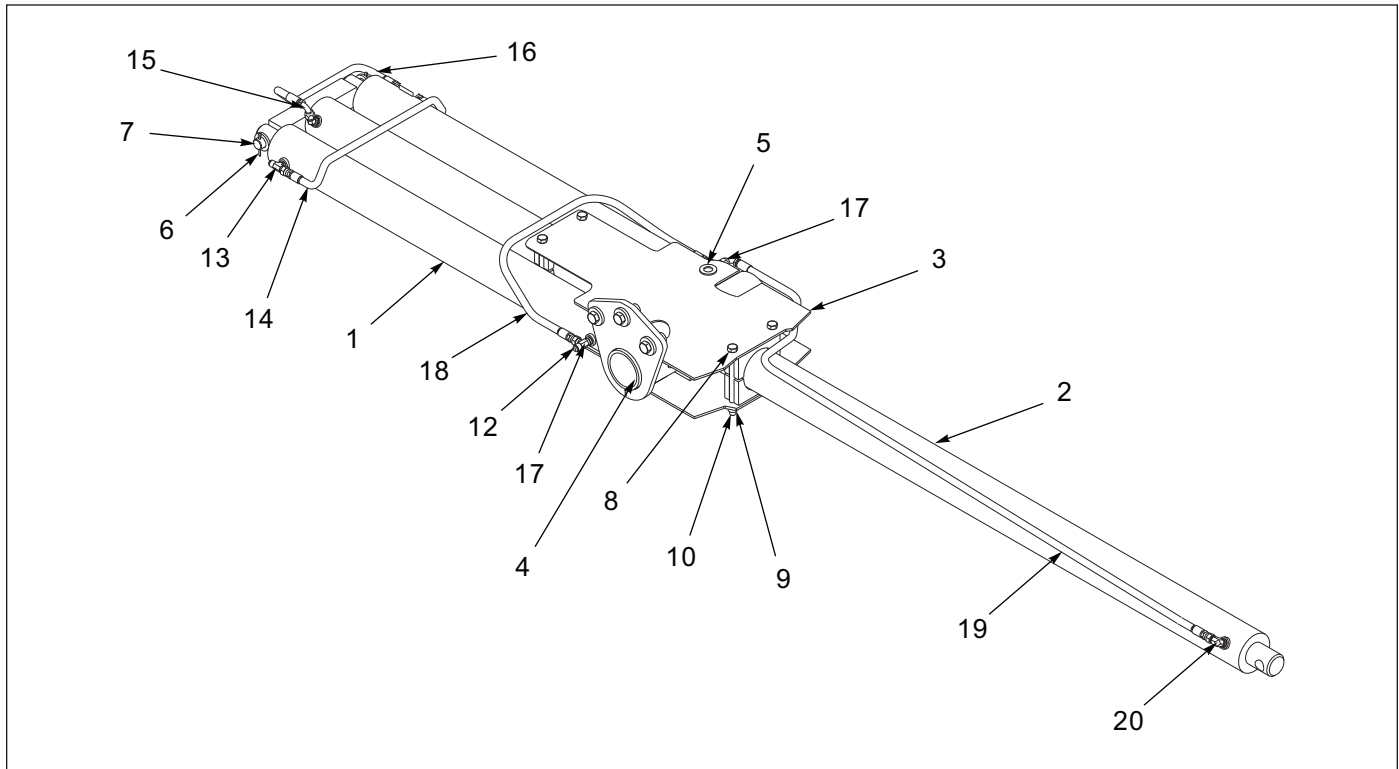


Figure 10-6: Cylinder Assembly, Low Load Angle (317 / 318)

## Cylinder Assembly, Low Load Angle (317 / 318)

| ITEM | PART NO.        | DESCRIPTION                                  | QTY. |
|------|-----------------|----------------------------------------------|------|
|      | 3-242-010152-02 | CYL ASSY LOW LOAD ANGLE (317)                | --   |
|      | 103743          | CYLINDER ASSY LOW LOAD ANGLE (318)           | --   |
| 1    | 3-242-010099    | CYLINDER 4X42 317 TILT (FOR 317)             | 2    |
| 2    | 3-242-010103    | CYLINDER HYDR 4X126ORB W/PIN                 | 1    |
| 3    | 3-120-010125    | CYLINDER TRUNNION ASSY                       | 1    |
| 4    | 3-120-010117    | NYLATRON BEARING                             | 4    |
| 5    | 3-557-010031    | PIN CYLINDER BUTT END                        | 2    |
| 6    | 1-557-010362-54 | PIN, COTTER 3/16X2-1/4                       | 4    |
| 7    | 3-150-010223    | BUSHING 2X1-1/4X.25 ZP                       | 2    |
| 8    | 1-654-010059-21 | SCREW,HEX CAP,5/8-11UNCX8 GR5                | 4    |
| 9    | 1-861-010032-19 | WASHER, FLAT 5/8 W ZP/CD                     | 4    |
| 10   | 1-512-010005-13 | NUT,HEX SLFLKG GRB 5/8-11                    | 4    |
| 11   | 1-298-010001-1  | ZERK FITTING 1/4 SAE                         | 2    |
| 12   | 1-161-010033-04 | CAP,PLASTIC,TAPERED 1/2MPT                   | 2    |
| 13   | 203003-8-8S     | ADAPTER,TEE,#8 O-RING-TUBE (318 REQS 4 EACH) | 2    |
| 14   | 1-397-010301039 | HOSE ASSY,1/2X39,SAE37,STR-ST                | 1    |
| 15   | 2061-8-8S       | ADAPTER, 45, #8 O-RING-TUBE                  | 1    |
| 16   | 1-397-010302070 | HOSE ASSY,1/2,SAE37,STR-90R                  | 1    |
| 17   | 203005-8-8S     | ADAPTER,TEE,#8 O-RING-TUBE (FOR 317)         | 2    |
| 18   | 1-397-010301042 | HOSE ASSY 1/2X42,SAE 37,STR (FOR 317)        | 1    |
| 19   | 107486          | HOSE 1/2X90,SAE 37, STR-90 (FOR 317)         | 1    |
| 20   | 2062-8-8S       | ADAPTER, 90, #8 O-RING-TUBE                  | 1    |



## Cylinder, Hydraulic, 4 x 126

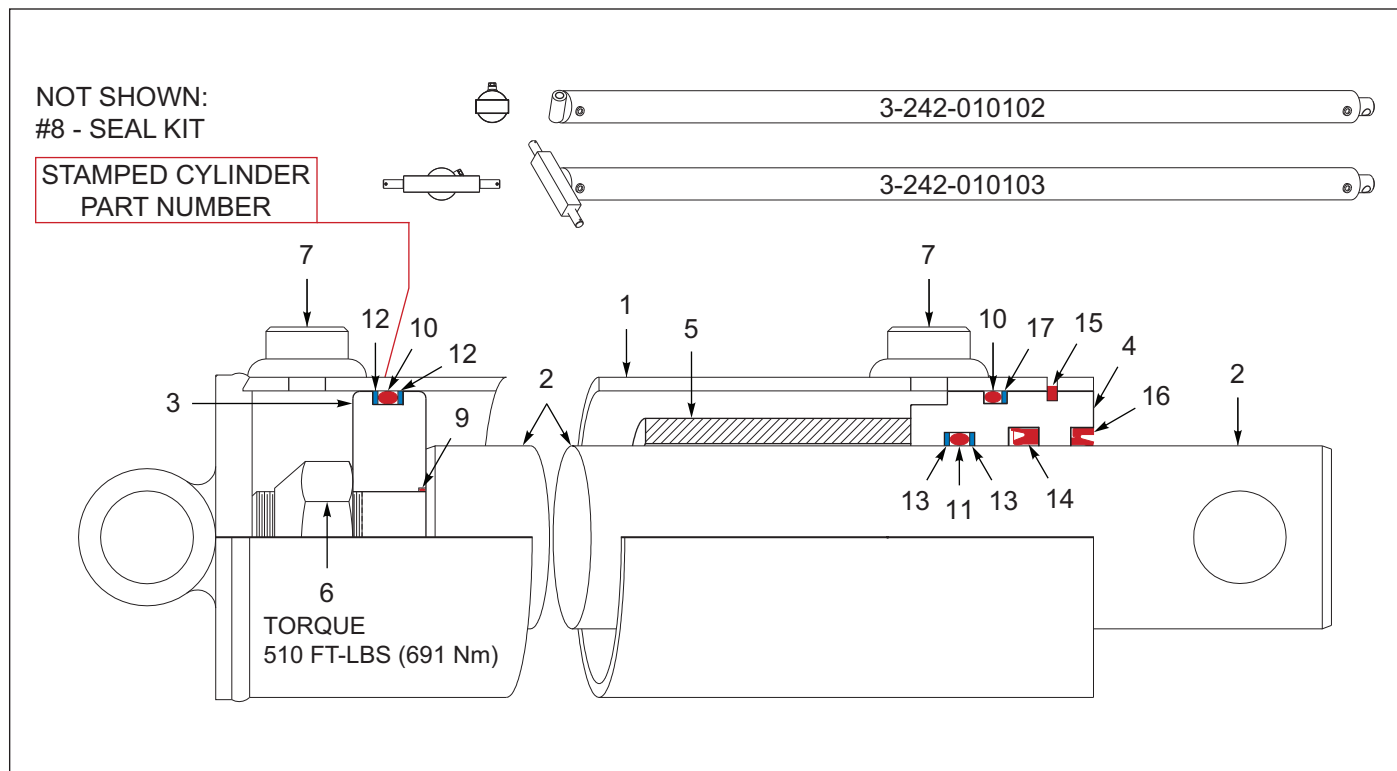
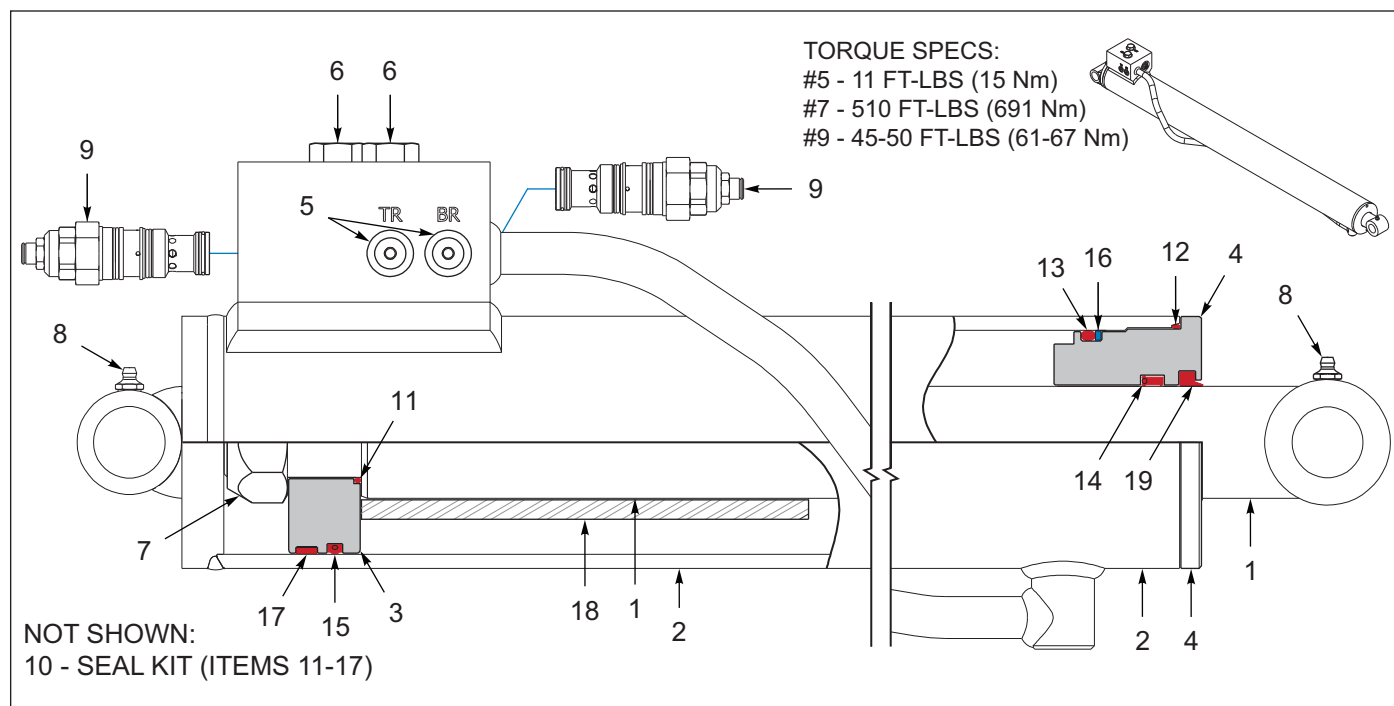


Figure 10-7: Cylinder, Hydraulic, 4 x 126

## Cylinder, Hydraulic, 4 X 126

| ITEM | PART NO.     | DESCRIPTION                                                                          | QTY. |
|------|--------------|--------------------------------------------------------------------------------------|------|
|      | 3-242-010102 | CYLINDER HYDR 4X126 O-RING ( <b>STANDARD LOAD ANGLE</b> )                            | --   |
|      | 3-242-010103 | CYLINDER HYDR 4X126ORB W/PIN ( <b>LOW LOAD ANGLE</b> )                               | --   |
| 1    | -----        | BUTT AND TUBE ASSEMBLY ( <b>STANDARD LOAD ANGLE</b> )                                | 1    |
| 1    | -----        | BUTT AND TUBE ASSEMBLY ( <b>LOW LOAD ANGLE</b> )                                     | 1    |
| 2    | 011300179    | PISTON ROD                                                                           | 1    |
| 3    | 071900195    | PISTON, 4X126 CYL                                                                    | 1    |
| 4    | 081900277    | GLAND FOR 3-242-010103                                                               | 1    |
| 5    | -----        | SPACER                                                                               | 1    |
| 6    | 220000212    | NUT LOCKING 1-242-010042                                                             | 1    |
| 7    | -----        | SAE ORB PLUG                                                                         | 2    |
| 8    | PMCK-AD-461  | SEAL KIT-3-242-010102,103,185 ( <b>NOT SHOWN</b> )<br>( <b>INCLUDES ITEMS 9-17</b> ) | 1    |
| 9    | -----        | O-RING                                                                               | 1    |
| 10   | -----        | O-RING                                                                               | 2    |
| 11   | -----        | O-RING                                                                               | 1    |
| 12   | -----        | BU-WASHER                                                                            | 2    |
| 13   | -----        | BU-WASHER                                                                            | 2    |
| 14   | -----        | U-CUP                                                                                | 1    |
| 15   | -----        | SQUARE WIRE RETAINER                                                                 | 1    |
| 16   | -----        | CANNED WIPER                                                                         | 1    |
| 17   | -----        | BU-WASHER                                                                            | 1    |

## Cylinder, Hydraulic, 4 x 42 W/Counterbalance Valve



**Figure 10-8: Cylinder, Hydraulic, 4 x 42 W/Counterbalance Valve**

## Cylinder, Hydraulic, 4 x 42 W/Counterbalance Valve

| ITEM | PART NO.  | DESCRIPTION                                                                 | QTY. |
|------|-----------|-----------------------------------------------------------------------------|------|
|      | 200497    | CYLINDER 4X42 W/CB (42 INCH STROKE)                                         | --   |
| 1    | -----     | PISTON ROD ASSEMBLY                                                         | 1    |
| 2    | -----     | BUTT & TUBE ASSEMBLY                                                        | 1    |
| 3    | -----     | PISTON                                                                      | 1    |
| 4    | -----     | GLAND                                                                       | 1    |
| 5    | -----     | HEX PLUG, #4 SAE HOLLOW                                                     | 4    |
| 6    | -----     | HEX PLUG, #8 SAE HEAD                                                       | 2    |
| 7    | 220000212 | NUT LOCKING 1-242-010042                                                    | 1    |
| 8    | 125565    | GREASE ZERK (270010002)                                                     | 2    |
| 9    | 218141    | VONBERG,CB,30GPM 10:1 SPCL SET (197587)<br>(COUNTERBALANCE CARTRIDGE VALVE) | 2    |
| 10   | 223960    | SEAL KIT 4"X42" CYL (200497) (INCLUDES ITEMS 11-17)                         | 1    |
| 11   | -----     | O-RING                                                                      | 1    |
| 12   | -----     | O-RING                                                                      | 1    |
| 13   | -----     | O-RING                                                                      | 1    |
| 14   | -----     | U-CUP                                                                       | 1    |
| 15   | -----     | CROWN SEAL                                                                  | 1    |
| 16   | -----     | BU-WASHER                                                                   | 1    |
| 17   | -----     | BEARING RING                                                                | 1    |

## Valve Assembly

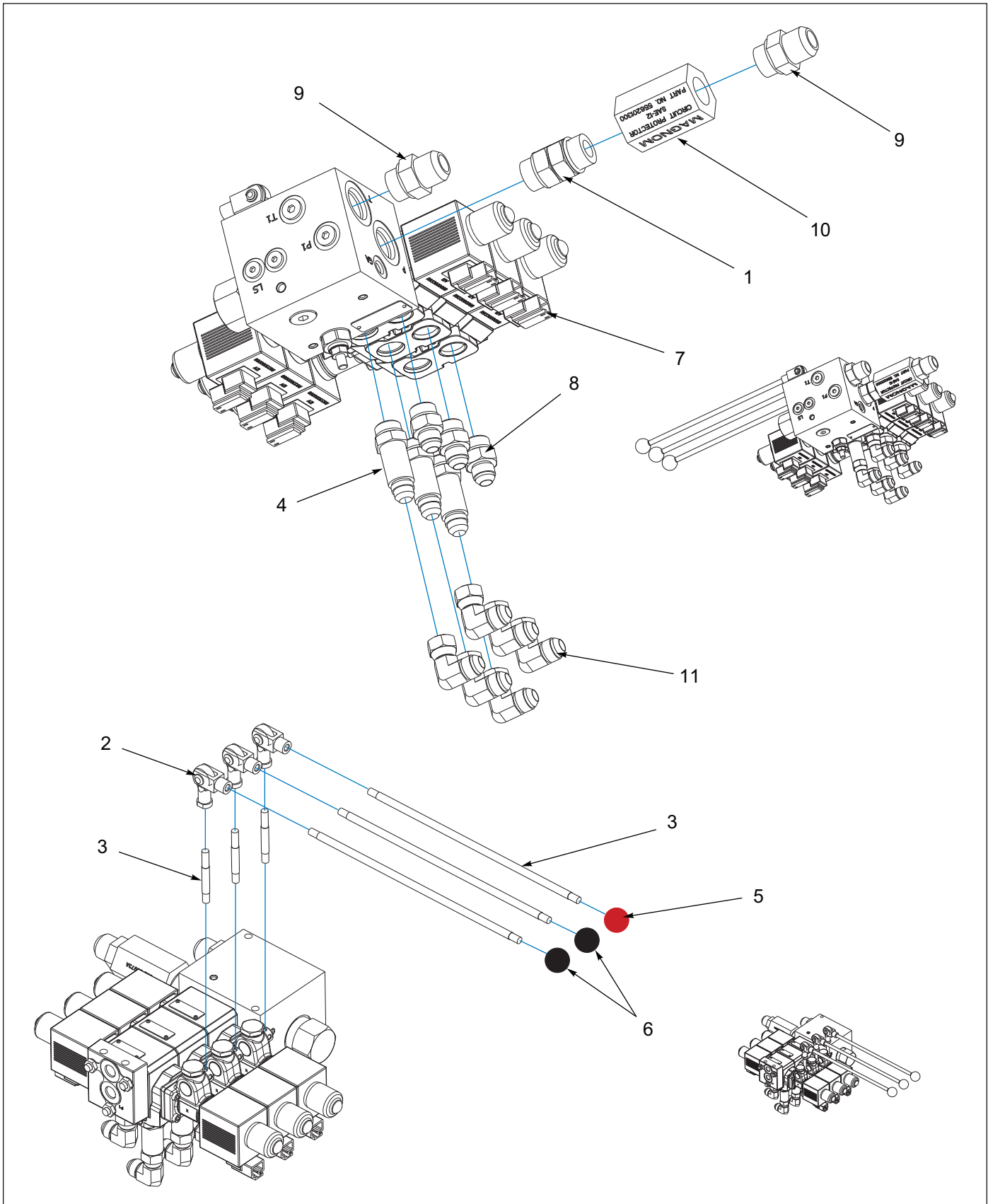


Figure 10-9: Valve Assembly

## Valve Assembly

| ITEM | PART NO.      | DESCRIPTION                                                | QTY. |
|------|---------------|------------------------------------------------------------|------|
|      | 194439        | VALVE REXROTH ASSEMBLY 300A                                | - -  |
| 1    | 158581        | ADAPTER STR #12 ORB - #12 ORB                              | 1    |
| 2    | 186875        | CLEVIS JOINT, ROD ENDS M8X1.25                             | 3    |
| 3    | 186902        | STUD, M8X1.25X64MM, DBL THRD                               | 3    |
| 4    | 189285        | ADAPTER, STR LONG #10 ORB #8MJIC                           | 3    |
| 5    | 191849        | HANDE, RED, 9 IN., M8X1.25 THREAD <b>(INCLUDES ROD)</b>    | 1    |
| 6    | 191850        | HANDLE, BLACK, 9 IN., M8X1.25 THREAD <b>(INCLUDES ROD)</b> | 2    |
| 7    | 202430        | VALVE, 3 SPOOL, 35GPM, W/ ORIF                             | 1    |
| 8    | 202702-10-8S  | ADAPTER, #10 O-RING #8 TUBE                                | 3    |
| 9    | 202702-12-12S | ADAPTER, STR #12 O-RING - #12 TUBE                         | 2    |
| 10   | 204124        | FILTER, HYD INLINE MAGNETIC, SAE#12                        | 1    |
| 11   | 2071-8-8S     | ADAPTER, 90, #8 FLR SWIVL #8 JIC                           | 6    |

## Valve Assembly, Components

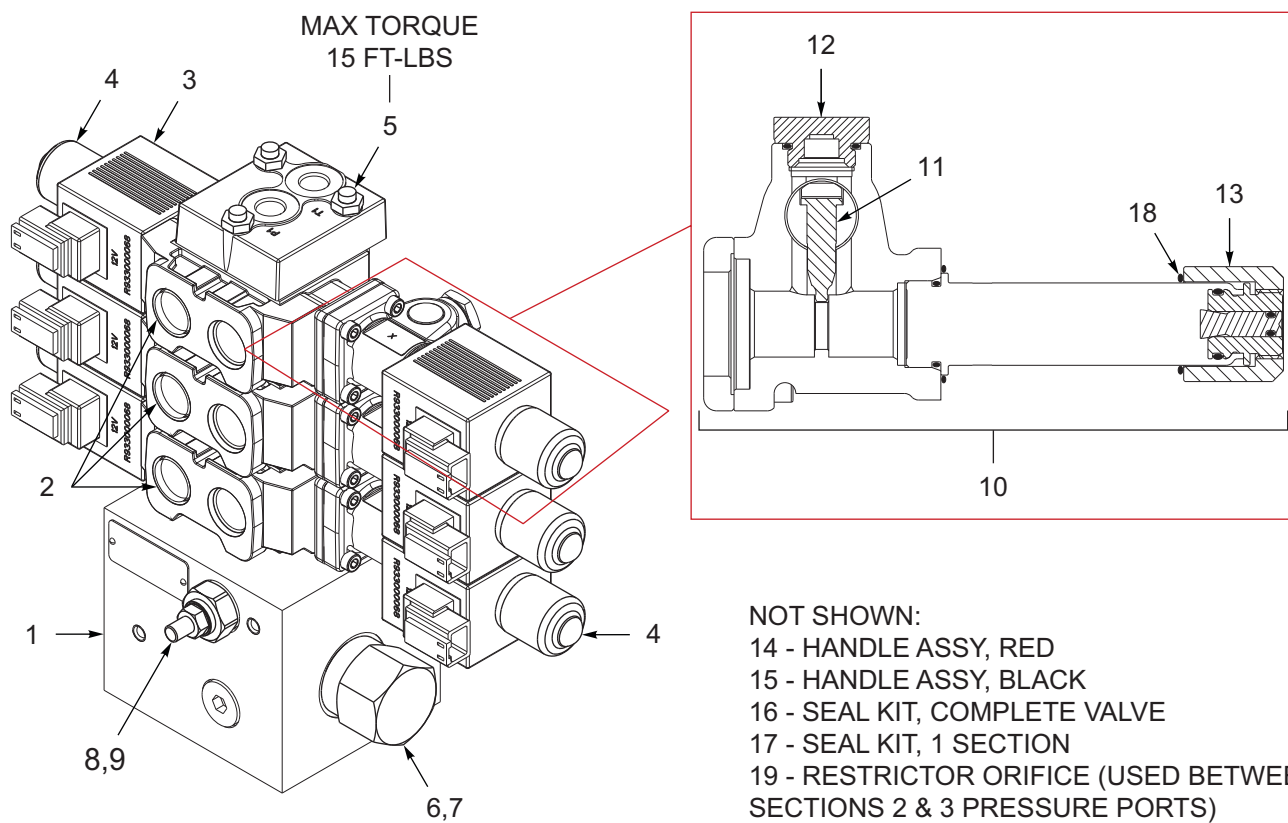


Figure 10-10: Valve Assembly, Components

## Valve Assembly, Components

| ITEM | PART NUMBER | DESCRIPTION                                                                  | QTY |
|------|-------------|------------------------------------------------------------------------------|-----|
|      | 202430      | VALVE 3 SPOOL MOTOR W/ORIF                                                   | - - |
| 1    | 191847      | INLET,REXROTH VALVE                                                          | 1   |
| 2    | 191848      | SECTION, SOLENOID,MOTOR,20GPM                                                | 3   |
| 3    | 193400      | SOLENOID, COIL, DUETSCH                                                      | 6   |
| 4    | 193401      | BOOT RUBBER, SOLE,MANUAL OVRDE                                               | 6   |
| 5    | 193402      | BOLT KIT, 3 SPOOL VALVE                                                      | 1   |
| 6    | 193444      | CARTRIDGE, BI-PASS COMPENSATOR                                               | 1   |
| 7    | 193445      | SEAL KIT, BI-PASS COMPENSATOR                                                | 1   |
| 8    | 193446      | CARTRIDGE, LOAD SENSE RELIEF                                                 | 1   |
| 9    | 193447      | SEAL KIT, LOAD SENSE RELIEF                                                  | 1   |
| 10   | 208390      | KIT COMPLETE LEVER BOX K-22144<br><b>(INCLUDES ITEMS 11-13 &amp; SCREWS)</b> | 3   |
| 11   | 204189      | SET SCREW HANDLE ACTUATOR BALL <b>(INCLUDED WITH ITEM 10)</b>                | 3   |
| 12   | 208391      | PLUG LEVER BOX <b>(INCLUDED WITH ITEM 10)</b>                                | 3   |
| 13   | 208392      | COIL NUT LEVER BOX <b>(INCLUDED WITH ITEM 10)</b>                            | 3   |
| 14   | 191849      | HANDLE,RED,12",M8-125 THREAD <b>(INCLUDES ROD &amp; KNOB)</b>                | 1   |
| 15   | 191850      | HANDLE,BLACK,12",M8-125 THREAD <b>(INCLUDES ROD &amp; KNOB)</b>              | 2   |
| 16   | 216601      | SEAL KIT COMPLETE REXROTH VALV <b>(INCLUDES ITEMS 17-18)</b>                 | 1   |
| 17   | 193442      | SEAL KIT, 1 SECTION, 3 SEALS <b>(INCLUDED WITH ITEM 16)</b>                  | 5   |
| 18   | 193443      | SEAL KIT, SOLENOID, 2 SEALS <b>(INCLUDED WITH ITEM 16)</b>                   | 3   |
| 19   | 202190      | RESTRICTOR1/8"DIA ORIFICE15GPM                                               | 1   |

## Kit, Conversion & Repair, Quick Coupler, Ball to Flat

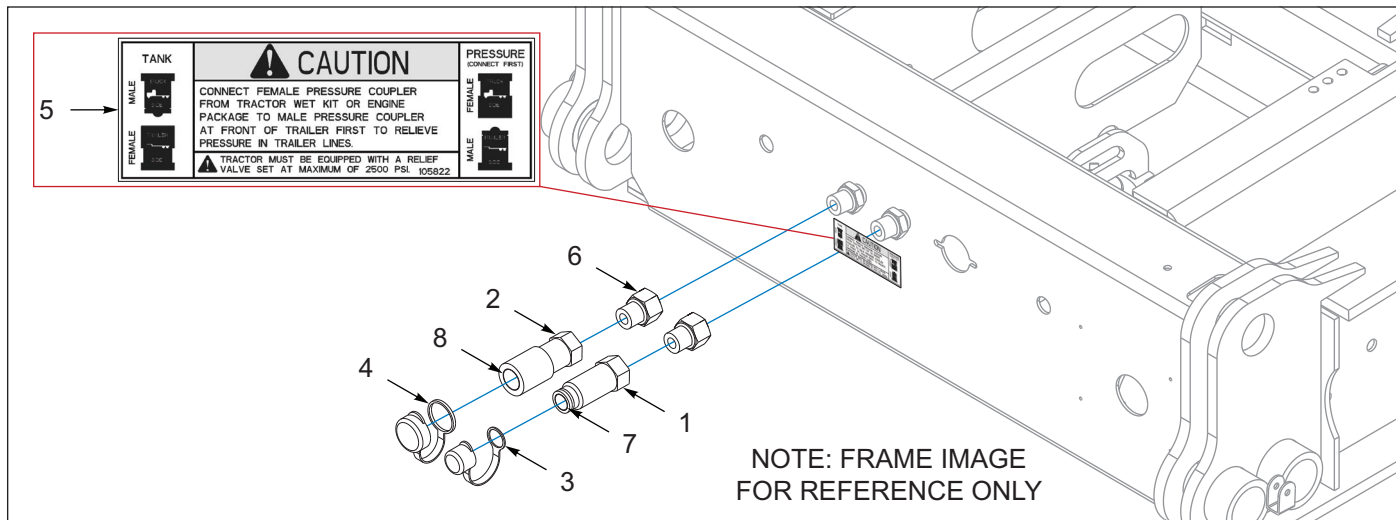


Figure 10-11: Kit, Conversion & Repair, Quick Coupler, Ball to Flat

## Kit, Conversion & Repair, Quick Coupler, Ball to Flat

| ITEM | PART NUMBER | DESCRIPTION                                                                                                                                  | QTY |
|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 105902      | HYD CONVERSION KIT BALL/FLAT (INCLUDES ITEM 1-6)<br>(BEFORE 03/01/2022 - AFTER 03/01/2020 DISCONTINUED)                                      | --  |
|      | 239705      | HYD CONVERSION KIT PRKR TO ISO (INCLUDES ITEM 1-4)<br>(AFTER 03/01/2022 - REPLACES 105902)                                                   | --  |
| 1    | 105479      | COUPLER FLAT FACE MALE NOSE (REPAIRABLE. SEE ITEM 7A)<br>(BEFORE 03/01/2022 -SILVER BODY)                                                    | 1   |
| 1    | 239677      | COUPLER FL FACE ISO -12 MALE (REPAIRABLE, SEE ITEM 7B)<br>(AFTER 03/01/2022- BLACK BODY)                                                     | 1   |
| 2    | 105480      | COUPLER FLAT FACE FEMALE BODY (REPAIRABLE, SEE ITEM 8)<br>(BEFORE 03/01/2022)                                                                | 1   |
| 2    | 239678      | COUPLER FL FACE ISO -12 FEMALE (NON-REPAIRABLE)<br>(AFTER 03/01/2022)                                                                        | 1   |
| 3    | 105481      | COUPLER DUST CAP MALE (BEFORE 03/01/2022)                                                                                                    | 1   |
| 3    | 239679      | DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)                                                                                             | 1   |
| 4    | 105482      | COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)                                                                                                  | 1   |
| 4    | 239680      | DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)                                                                                            | 1   |
| 5    | 105822      | DECAL, HYD COUPLER (BEFORE 03/01/2022 REQ 1 EACH - AFTER<br>NO LONGER USED)                                                                  | --  |
| 6    | 2216-12-12S | ADAPT 3/4-14P/1-1/16 O-RING<br>(BEFORE 03/01/2022 REQ 2 EACH - AFTER NO LONGER USED)                                                         | --  |
| 7    | 111089      | REPAIR KIT FOR 105479 (7A INCLUDES SLIPPER SEAL, O-RING)<br>(BEFORE 03/01/2022 -AFTER KIT DISCONTINUED)                                      | 1   |
| 7    | 238634      | KIT O-RING MALE ISO-12 QD (7B INCLUDES BACK-UP RING,<br>O-RING) (AFTER 03/01/2022 - NEW MALE KIT)                                            | 1   |
| 8    | 111090      | REPAIR KIT FOR 105480 (INCLUDES VALVE ASSEM, SEALING<br>SLEEVE, BACK-UP RING, O-RING)<br>(BEFORE 03/01/2022 - AFTER 03/01/2022 DISCONTINUED) | 1   |

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# Kit, Wet, Hydraulic (OPTION) (BEFORE 02/21/2019)

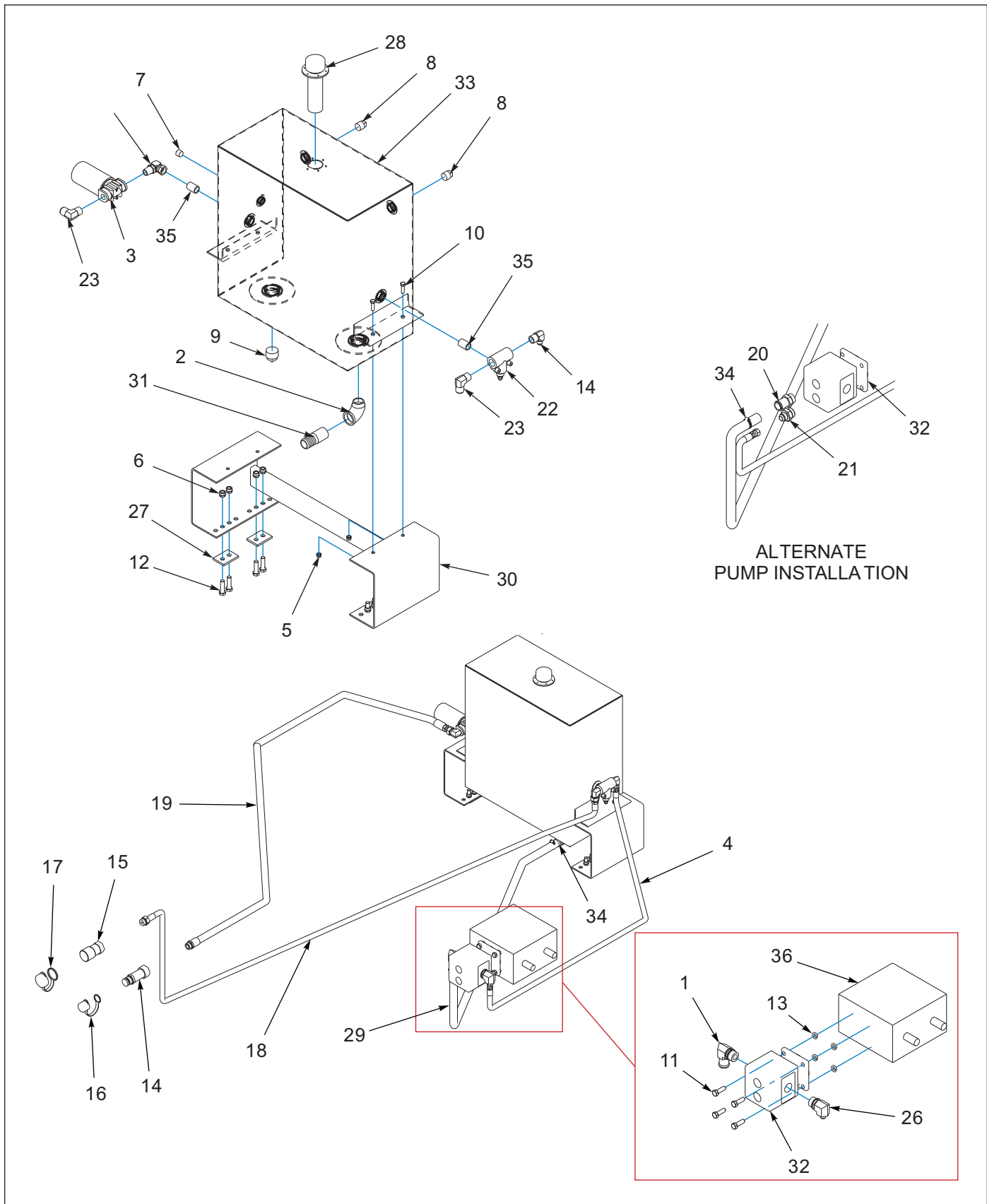


Figure 10-12: Kit, Wet, Hydraulic (OPTION) (BEFORE 02/21/2019)

## Kit, Wet, Hydraulic (OPTION) (BEFORE 02/21/2019)

| ITEM | PART NO.        | DESCRIPTION                                                                                             | QTY. |
|------|-----------------|---------------------------------------------------------------------------------------------------------|------|
|      | 107498          | HYDRAULIC WET KIT W/ PTO INSTALLED                                                                      | --   |
|      | 107499          | HYDRAULIC WET KIT W/ PTO NOT INSTALLED                                                                  | --   |
|      | 107500          | HYDRAULIC WET KIT W/O PTO NOT INSTALLED                                                                 | --   |
| 1    | 1-007-010006    | ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE                                                                      | 1    |
| 2    | 1-1/4ST ELL     | BLACK PIPE ELBOW 90 ST                                                                                  | 1    |
| 3    | 1-295-010001    | FILTER, RETURN                                                                                          | 1    |
| 3    | 1-295-010002    | FILTER ELEMENT                                                                                          | 1    |
| 4    | 1-397-010301100 | HOSE ASSEMBLY 1/2 X 100                                                                                 | 1    |
| 5    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                                                                | 4    |
| 6    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                                                                | 8    |
| 7    | 1-560-010002-04 | PIPE PLUG 1/2                                                                                           | 1    |
| 8    | 1-560-010002-05 | PIPE PLUG 3/4                                                                                           | 2    |
| 9    | 1-560-010002-07 | PLUG, BLACK PIPE 1-1/4 SQ HEAD                                                                          | 1    |
| 10   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5                                                                  | 4    |
| 11   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5                                                                  | 4    |
| 12   | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5                                                                  | 8    |
| 13   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                                                                                  | 4    |
| 14   | 105479          | COUPLER FLAT FACE MALE NOSE <b>(PARTS - SEE PAGE 10-17)</b><br><b>(BEFORE 03/01/2022 - SILVER BODY)</b> | 1    |
| 14   | 239677          | COUPLER FL FACE ISO -12 MALE <b>(PARTS - SEE PAGE 10-17)</b><br><b>(AFTER 03/01/2022 - BLACK BODY)</b>  | 1    |
| 15   | 105480          | COUPLER FLAT FACE FEMALE BODY <b>(PARTS - SEE PAGE 10-17)</b><br><b>(BEFORE 03/01/2022)</b>             | 1    |
| 15   | 239678          | COUPLER FL FACE ISO -12 FEMALE <b>(PARTS - SEE PAGE 10-17)</b><br><b>(AFTER 03/01/2022)</b>             | 1    |
| 16   | 105481          | COUPLER DUST CAP MALE <b>(BEFORE 03/01/2022)</b>                                                        | 1    |
| 16   | 239679          | DUST CAP -12 ISO MALE COUPLER <b>(AFTER 03/01/2022)</b>                                                 | 1    |
| 17   | 105482          | COUPLER DUST CAP FEMALE <b>(BEFORE 03/01/2022)</b>                                                      | 1    |
| 17   | 239680          | DUST CAP FEMALE COUPLER -12ISO <b>(AFTER 03/01/2022)</b>                                                | 1    |
| 18   | 106759          | HOSE ASSEMBLY 1/2 X 164                                                                                 | 1    |
| 19   | 106760          | HOSE ASSEMBLY 3/4 X 164                                                                                 | 1    |
| 20   | 107513          | ADAPTER                                                                                                 | 1    |
| 21   | 12-16 070120    | ADAPTER                                                                                                 | 1    |
| 22   | 125130          | RD12D HYD BY PASS SRDD                                                                                  | 1    |
| 23   | 2024-12-12S     | ADAPTER 90                                                                                              | 2    |
| 24   | 2024-12-8S      | ADAPTER, 90                                                                                             | 1    |
| 25   | 2047-12-12S     | ELBOW, 90 SWIVEL                                                                                        | 1    |
| 26   | 2062-16-8S      | ADAPTER, 90                                                                                             | 1    |
| 27   | 3-120-010461    | BRACKET, HYD TANK MOUNT SUPPORT                                                                         | 4    |
| 28   | 3-162-010001    | FILLER-BREATH-ER-STRAINER ASSEMBLY                                                                      | 1    |
| 29   | 3-399-010001    | HOSE, 1-1/4 SUCTION                                                                                     | 8'   |
| 30   | 3-482-010503    | TANK MOUNT                                                                                              | 1    |
| 31   | 3-561-010001    | HOSE BARB 1-1/4                                                                                         | 1    |
| 32   | 3-591-010001    | HYDRAULIC GEAR PUMP                                                                                     | 1    |
| 33   | 3-786-010043    | TANK, HYDRAULIC                                                                                         | 1    |
| 34   | 6828            | IDEAL HOSE CLAMP                                                                                        | 2    |
| 35   | C3069X12        | NIPPLE, HEX                                                                                             | 2    |
| 36   | PTO             | POWER TAKE OFF                                                                                          | --   |

# Kit, Wet, Hydraulic (OPTION) (AFTER 02/21/2019)

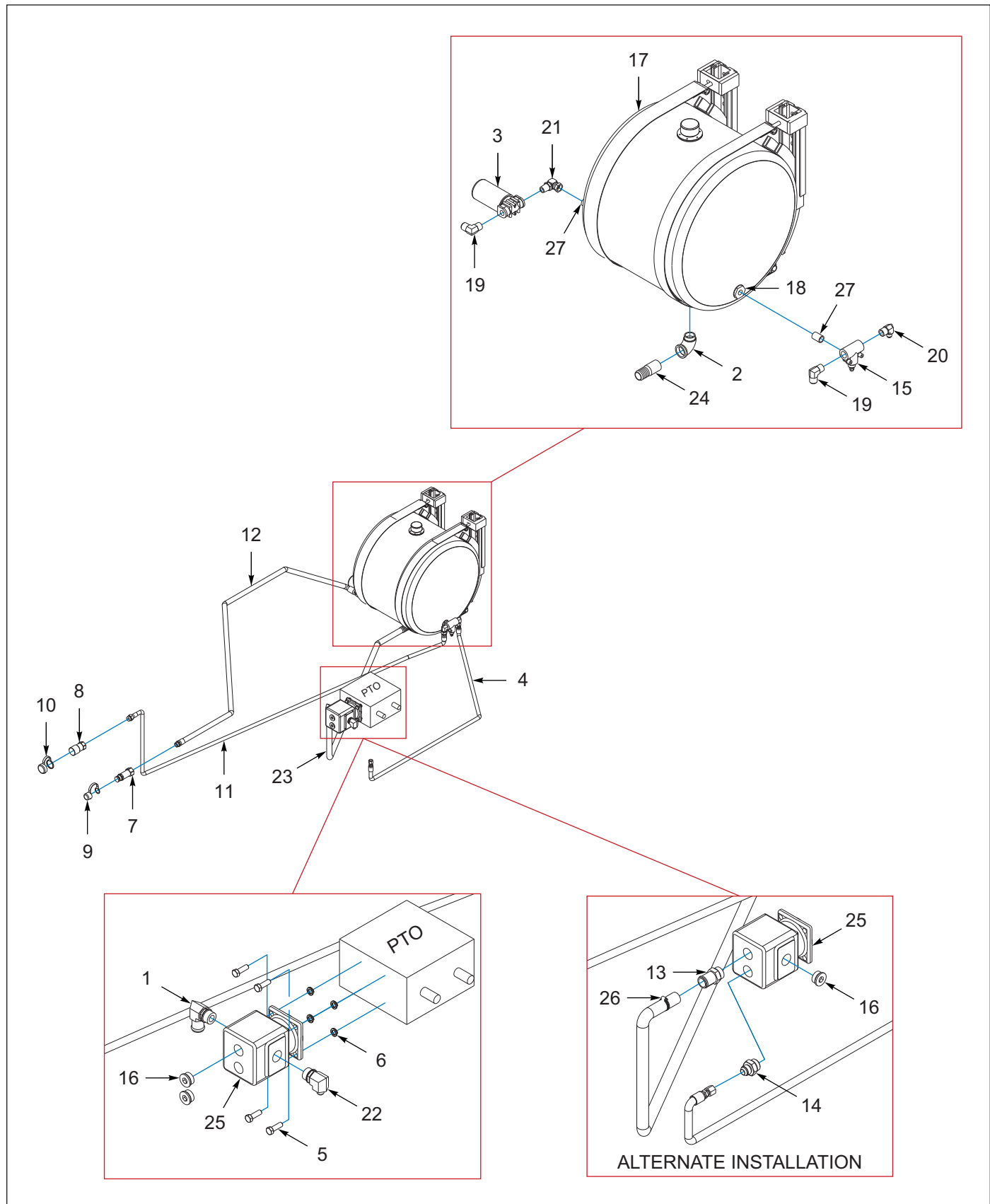


Figure 10-13: Kit, Wet, Hydraulic (OPTION) (AFTER 02/21/2019)

## Kit, Wet, Hydraulic (OPTION) (AFTER 02/21/2019)

| ITEM | PART NUMBER     | DESCRIPTION                                                                               | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------|-----|
|      | 107498          | WET KIT,35GAL, W/PTO, INSTALL                                                             | --  |
|      | 107499          | WET KIT,35GAL,W/PTO,NOT INST                                                              | --  |
|      | 107500          | WET KIT 35GAL W/O PTO NOT INS                                                             | --  |
| 1    | 1-007-010006    | 90 EL 1-5/16 O-RING-1-1/4 HOS                                                             | 1   |
| 2    | 1-1/4ST ELL     | PIPE ELBOW BLK 90 ST                                                                      | 1   |
| 3    | 1-295-010001    | FILTER, RETURN LINE                                                                       | 1   |
| 4    | 1-397-010301100 | HOSE ASSY,1/2X100 SAE 37 STR                                                              | 1   |
| 5    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2                                                             | 4   |
| 6    | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                                 | 4   |
| 7    | 105479          | COUPLER FLAT FACE MALE NOSE (PARTS - SEE PAGE 10-17)<br>(BEFORE 03/01/2022 - SILVER BODY) | 1   |
| 7    | 239677          | COUPLER FL FACE ISO -12 MALE (PARTS - SEE PAGE 10-17)<br>(AFTER 03/01/2022 - BLACK BODY)  | 1   |
| 8    | 105480          | COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 10-17)<br>(BEFORE 03/01/2022)             | 1   |
| 8    | 239678          | COUPLER FL FACE ISO -12 FEMALE (PARTS - SEE PAGE 10-17)<br>(AFTER 03/01/2022)             | 1   |
| 9    | 105481          | COUPLER DUST CAP MALE (BEFORE 03/01/2022)                                                 | 1   |
| 9    | 239679          | DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)                                          | 1   |
| 10   | 105482          | COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)                                               | 1   |
| 10   | 239680          | DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)                                         | 1   |
| 11   | 106759          | HOSE 1/2X164,1-1/16O-RG 12FJI                                                             | 1   |
| 12   | 106760          | HOSE 3/4X164 1-1/16O-RG 12SAE                                                             | 1   |
| 13   | 107513          | ADAPTER #16 O-RING X 1-1/4HOS                                                             | 1   |
| 14   | 12-16 070120    | ADAPTER,#12 TUBE/ #16 O-RING                                                              | 1   |
| 15   | 125130          | RD12D HYD BY PASS SRDD                                                                    | 1   |
| 16   | 157330          | PLUG,, #16 ORB HEX                                                                        | 2   |
| 17   | 168193          | HYDRAULIC TANK 35GAL STD                                                                  | 1   |
| 18   | 20-12 140140    | REDUCER STR #20PIPE X#12 PIPE                                                             | 2   |
| 19   | 2024-12-12S     | ADAPTER 90 3/4MPT X3/4M JIC                                                               | 2   |
| 20   | 2024-12-8S      | ELBOW,90,#12NPTX#8 JIC                                                                    | 1   |
| 21   | 2047-12-12S     | PIPE SWIVEL 90 MALE 3/4-14                                                                | 1   |
| 22   | 2062-16-8S      | ADAPTER 90 1 BOSSX1/2 37                                                                  | 1   |
| 23   | 3-399-010001    | HOSE 1-1/4 SUCTION                                                                        | 8   |
| 24   | 3-561-010001    | HOSE BARB 1-1/4 NPT                                                                       | 1   |
| 25   | 3-591-010001    | HYDRAULIC GEAR PUMP                                                                       | 1   |
| 26   | 6828            | IDEAL HOSE CLAMP2.25MAX-1.3MI                                                             | 2   |
| 27   | C3069X12        | NIPPLE HYD 3/4 MPT                                                                        | 2   |

# Winch Assembly (OPTIONS)

## Chain Drive Installation, Braden

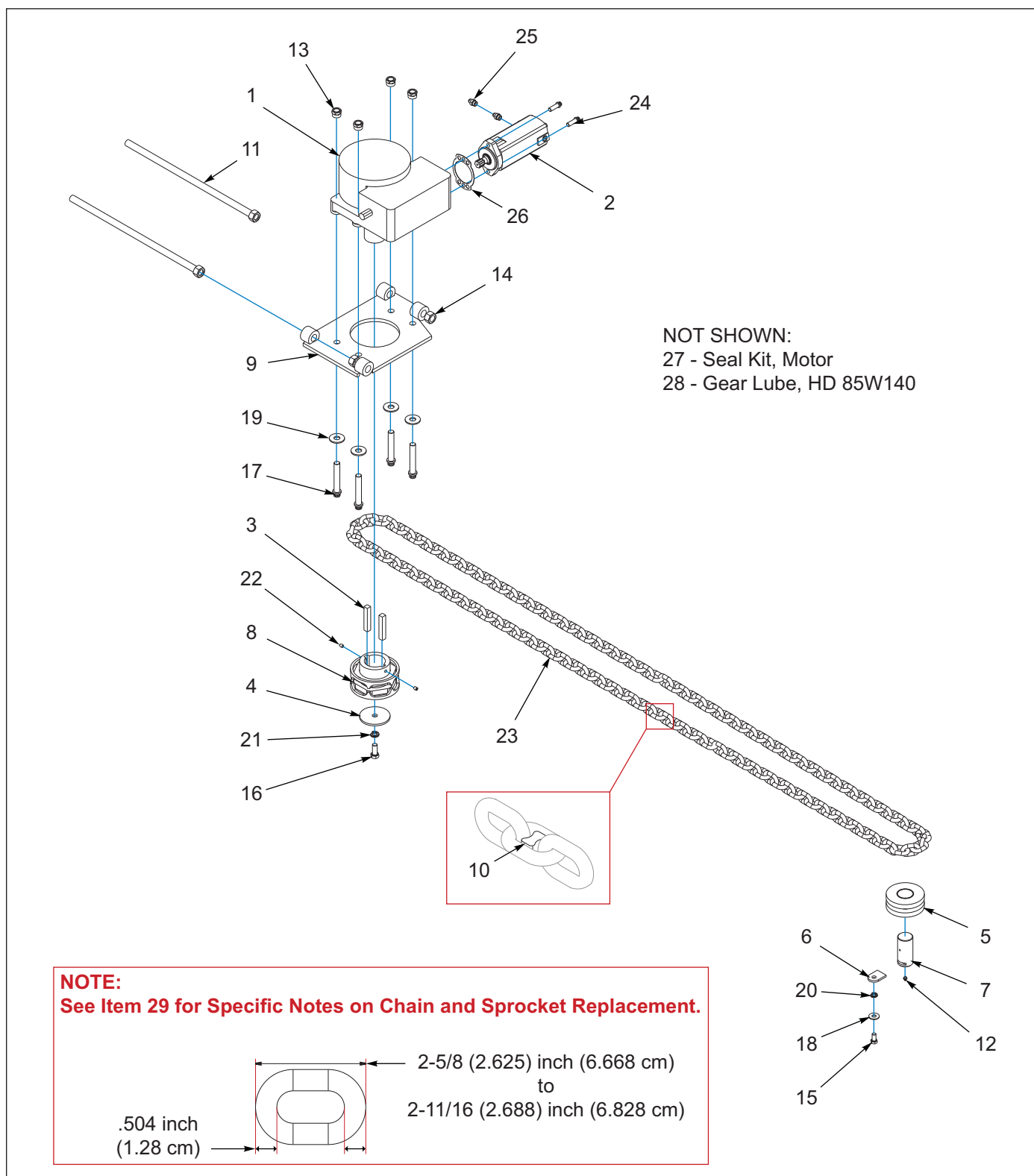
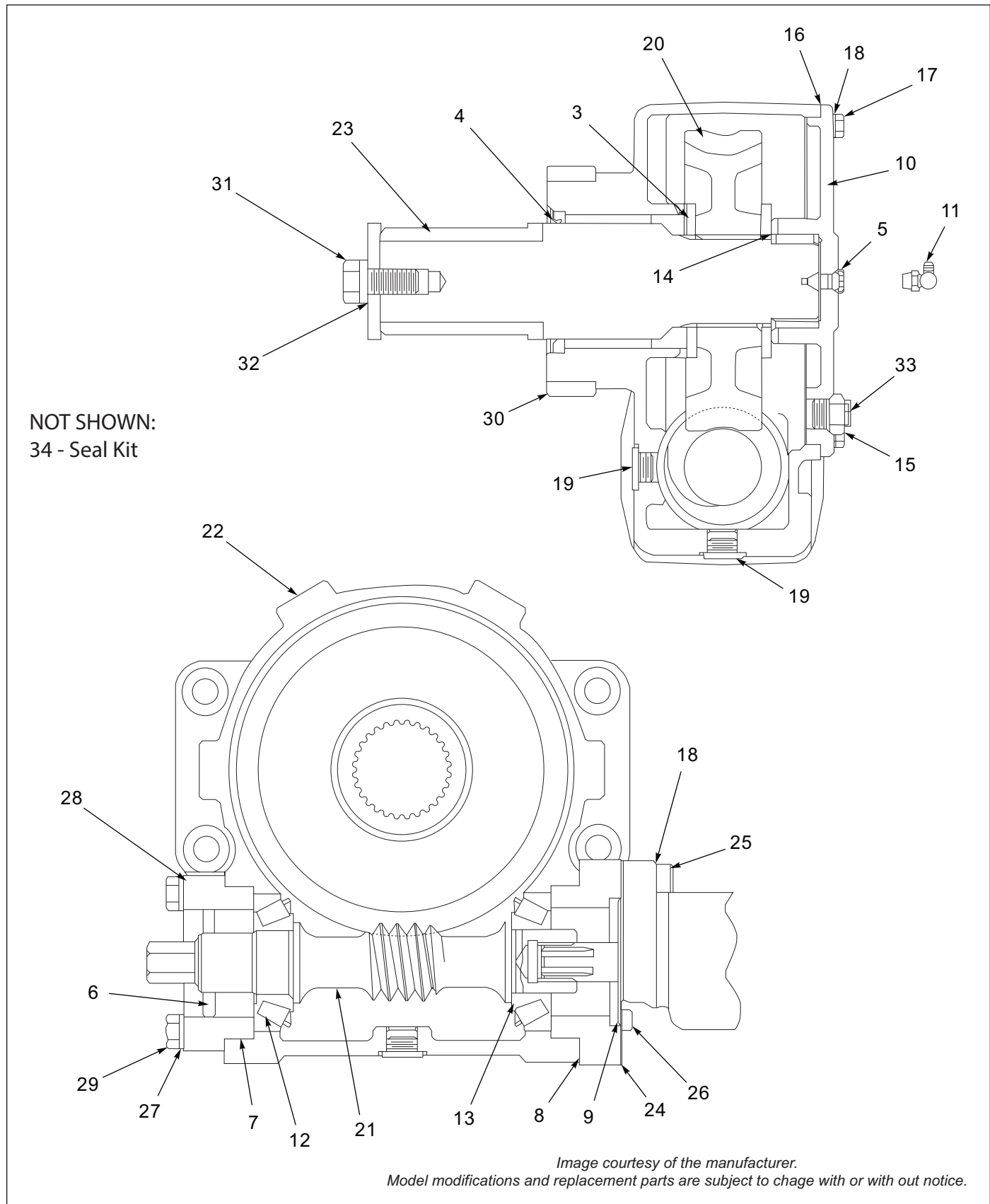


Figure 11-1: Chain Drive Installation, Braden

## Chain Drive Installation, Braden

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                                                                                                                                     | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 129215          | GEARBOX ASSY, 340 TRL                                                                                                                                                                                                                           | --  |
|      | 131256          | GEARBOX ASSY, 340-50 TRL                                                                                                                                                                                                                        | --  |
|      | 158039          | GEARBOX ASSY 330-42                                                                                                                                                                                                                             | --  |
|      | 161888          | GEARBOX ASSY 330-53                                                                                                                                                                                                                             | --  |
|      | 167952          | GEARBOX ASSY 330-48                                                                                                                                                                                                                             | --  |
|      | 180898          | GEARBOX ASSY, 343-43 TRL                                                                                                                                                                                                                        | --  |
|      | 181591          | GEARBOX ASSY 330-50                                                                                                                                                                                                                             | --  |
|      | 220970          | GEARBOX ASSY 343-39 TRL                                                                                                                                                                                                                         | --  |
| 1    | 126858          | GEARBOX, BRADEN<br>(COMPONENTS - SEE PAGE 11-3)<br>(HYDRAULIC - SEE PAGE 10-7)                                                                                                                                                                  | 1   |
| 2    | 126973          | MOTOR FOR BRADEN GEARBOX                                                                                                                                                                                                                        | 1   |
| 3    | 127598          | SQUARE ROD, 5/8 X 3-3/4                                                                                                                                                                                                                         | 2   |
| 4    | 128713          | WASHER, KEEPER CHAIN GEAR                                                                                                                                                                                                                       | 1   |
| 5    | 128801          | IDLER, LOG CHAIN 1/2                                                                                                                                                                                                                            | 1   |
| 6    | 128802          | STOP, IDLER PIN                                                                                                                                                                                                                                 | 1   |
| 7    | 128803          | PIN, IDLER LOG CHAIN                                                                                                                                                                                                                            | 1   |
| 8    | -----           | BUSHING CHAIN SPROCKET 1/2 WLD (SEE ITEM 29, NOTES)                                                                                                                                                                                             | 1   |
| 9    | 129203          | ANCHOR WELDMENT, GEARBOX ADJ                                                                                                                                                                                                                    | 1   |
| 10   | 129214          | SPLICE, CHAIN 1/2                                                                                                                                                                                                                               | 1   |
| 11   | 129217          | ROD WELDMENT 7/8-9 X 25                                                                                                                                                                                                                         | 2   |
| 12   | 1-298-010001-1  | FITTING, GREASE 1/4-28                                                                                                                                                                                                                          | 1   |
| 13   | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                                                                                                                                                                                                                        | 4   |
| 14   | 1-512-010007-13 | NUT, HEX 7/8-9 GRB                                                                                                                                                                                                                              | 2   |
| 15   | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5                                                                                                                                                                                                              | 1   |
| 16   | 1-654-010059-03 | SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5                                                                                                                                                                                                          | 1   |
| 17   | 139345          | SCREW, 12 PT 3/4-10 X 4-1/2                                                                                                                                                                                                                     | 4   |
| 18   | 1-861-010032-15 | WASHER, FLAT 1/2W                                                                                                                                                                                                                               | 4   |
| 19   | 1-861-010032-21 | WASHER, FLAT 3/4W                                                                                                                                                                                                                               | 4   |
| 20   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                                                                                                                                                                                                                          | 1   |
| 21   | 1-861-010034-15 | WASHER, SPLIT LOCK 5/8                                                                                                                                                                                                                          | 1   |
| 22   | 110-3494        | SET SCREW, SOCKET HEAD 3/8-16 X 1/2                                                                                                                                                                                                             | 2   |
| 23   | -----           | CHAIN 1/2" GRD 7 (SEE ITEM 29, NOTES)<br>(CHAIN COMES UNASSEMBLED, ORDER ITEM 10)                                                                                                                                                               | 1   |
| 24   | 130127          | SCREW, 12 PT FLANGE 1/2-13 X 1-1/2                                                                                                                                                                                                              | 2   |
| 25   | 202702-10-8S    | ADAPTER, #10 O-RING, #8 TUBE                                                                                                                                                                                                                    | 2   |
| 26   | 137935          | GASKET BRADEN GEARBOX 22813                                                                                                                                                                                                                     | 1   |
| 27   | 61258           | SEAL KIT IS FOR MOTOR #126973 (NOT SHOWN)                                                                                                                                                                                                       | 1   |
| 28   | MOBIL 85W140    | SINCLAIR HD85W140 GEAR LUBE (BY THE POUND)                                                                                                                                                                                                      | 4   |
| 29   | -----           | RECOMMEND REPLACING CHAIN & SPROCKET TOGETHER.<br>CHAIN / SPROCKET REPLACEMENT: MEASURE CHAIN LINKS<br>WITH CALIPERS AND CONTACT THE LANDOLL SERVICE<br>DEPARTMENT.<br>CHAIN / SPROCKET WEAR LIMITS: CONTACT THE LANDOLL<br>SERVICE DEPARTMENT. | --  |

## Chain Drive Components, Gearbox



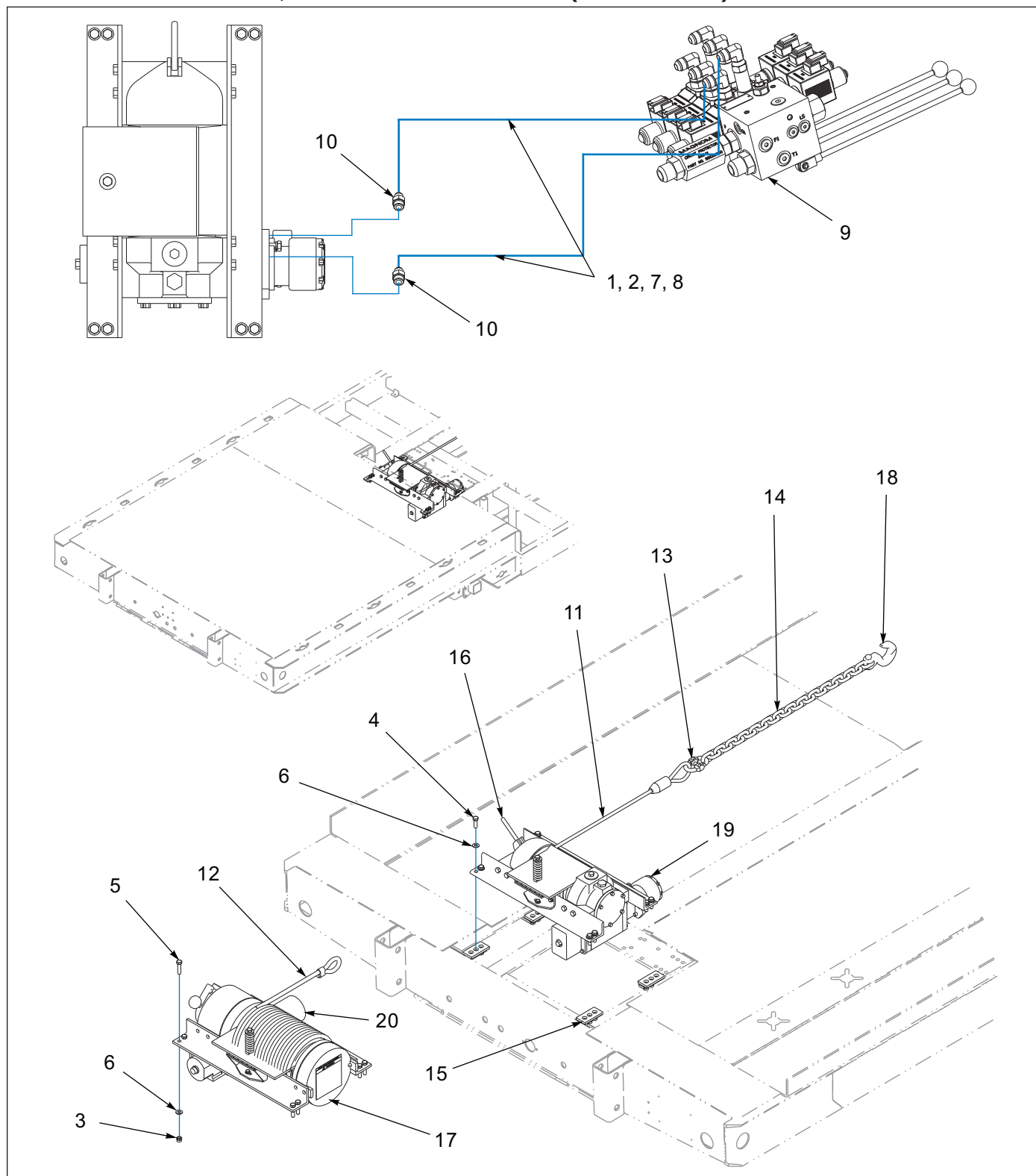
**Figure 11-2: Chain Drive Components, Gearbox**

## Gearbox Assembly, Chain Drive

| ITEM | PART NUMBER | DESCRIPTION                                                   | QTY |
|------|-------------|---------------------------------------------------------------|-----|
|      | 126858      | GEARBOX, BRADEN                                               | --  |
| 1    | 130346      | WORM HOUSING BUSHING (100527)                                 | 1   |
| 2    | 130347      | WORM HSG COVER BUSHING(23647)                                 | 1   |
| 3    | 216575      | RETAINING RING                                                | 2   |
| 4    | 216574      | OIL SEAL <b>(130349)</b>                                      | 1   |
| 5    | 216585      | PIPE PLUG                                                     | 1   |
| 6    | 216582      | SEAL                                                          | 1   |
| 7    | 216569      | O-RING                                                        | 2   |
| 8    | 216570      | SHIM                                                          | 2   |
| 9    | 137935      | GASKET MOTOR <b>(216578) (ALSO DISPLAYED - SEE PAGE 11-1)</b> | 1   |
| 10   | 216559      | COVER WORM HOUSING                                            | 1   |
| 11   | 216560      | GREASE ZERT                                                   | 1   |
| 12   | 216561      | BEARING CUP CONE COMBO <b>(INCLUDES ITEM 13)</b>              | 2   |
| 13   | 216562      | BEARING CONE <b>(NOT SOLD SEPARATELY, ORDER ITEM 12)</b>      | 2   |
| 14   | 216563      | RETAINING RING                                                | 1   |
| 15   | 216564      | REDUCER STR THD ADAPTER                                       | 1   |
| 16   | 216565      | WORM COVER GASKET                                             | 1   |
| 17   | 216566      | CAPSCREW                                                      | 6   |
| 18   | 216567      | LOCK WASHER                                                   | 6   |
| 19   | 216568      | PLUG O-O-RING FLUSH 16496-8                                   | 2   |
| 20   | 216571      | WORM GEAR (30:1 UT12C)                                        | 1   |
| 21   | 216572      | WORM                                                          | 1   |
| 22   | 216573      | HOUSING WORM (WR50-LS)                                        | 1   |
| 23   | 216576      | OUTPUT SHAFT                                                  | 1   |
| 24   | 216577      | ADAPTER MOTOR                                                 | 1   |
| 25   | 216579      | CAPSCREW                                                      | 2   |
| 26   | 216580      | LOCKWASHER HI-COLLAR                                          | 4   |
| 27   | 216581      | LOCKWASHER                                                    | 2   |
| 28   | 216583      | RETAINER BEARING                                              | 1   |
| 29   | 216584      | CAPSCREW                                                      | 4   |
| 30   | 216586      | PILOT RING                                                    | 1   |
| 31   | 216587      | LOCKWASHER                                                    | 1   |
| 32   | 216588      | 30-245CPSTN RET WASH                                          | 1   |
| 33   | 130350      | RELIEF / VENT (10074)                                         | 1   |
| 34   | 216589      | SEAL KIT FOR 126858 GEARBOX <b>(NOT SHOWN)</b>                | --  |



## Winch Installation, Braden 12K / 20K (OPTIONS)



**Figure 11-3: Winch Installation, Braden 12K / 20K (Options)**

## Winch Installation, Braden 12K / 20K (Options)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                   | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------------------|------|
|      | 3-873-010166-01 | WINCH INSTL,12K W/PRKR MTR 42                                                                 | --   |
|      | 3-873-010166-02 | WINCH INSTL,12K W/PRKR MTR 48                                                                 | --   |
|      | 184221          | WINCH INSTL,12K W/PRKR MTR 53'                                                                | --   |
|      | 3-873-010166-03 | WINCH INSTL,20K W/PKR MTR 42                                                                  | --   |
|      | 3-873-010166-04 | WINCH INSTL 20K W/PKR MTR 48'                                                                 | --   |
|      | 184222          | WINCH INSTL,20K W/PRKR MTR 53'                                                                | --   |
|      | 100351          | WINCH INSTL 12K SLOPE 330                                                                     | --   |
|      | 111396          | WINCH 20K SLOPE 330                                                                           | --   |
| 1    | 1-397-010302172 | HOSE ASSY,1/2X172,SAE37,STR90 <b>(SLOPE WINCH ONLY)</b>                                       | 2    |
| 2    | 1-397-010302240 | HOSE ASSY 1/2 SAE37 STR90 240 <b>(42 FOOT TRAILER ONLY)</b>                                   | 2    |
| 3    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB <b>(ALL WINCH ASSEMBLIES)</b>                                      | 8    |
| 4    | 1-654-010055-03 | SCREW,HEX CAP,1/2-13UNCX1-1/2 <b>(12K AND 12K SLOPE)</b>                                      | 8    |
| 5    | 1-654-010055-05 | SCREW,HEX CAP,1/2-13UNCX2 GR5 <b>(20K WINCH ONLY)</b>                                         | 8    |
| 6    | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD <b>(ALL WINCH ASSEMBLIES)</b>                                       | 16   |
| 7    | 100062          | HOSE ASSY 1/2X286,SAE37,STR90 <b>(48 FOOT TRAILER ONLY)</b>                                   | 2    |
| 8    | 144411          | HOSE ASSY 1/2X346,SAE37,STR90 <b>(53 FOOT TRAILER ONLY)</b>                                   | 2    |
| 9    | 194439          | VALVE REXROTH ASSY 300A <b>(ALL WINCH ASSEMBLIES)</b>                                         | REF  |
| 10   | 202702-10-8S    | ADAPTER, #10 O-RING #8 TUBE <b>(ALL WINCH ASSEMBLIES)</b>                                     | 2    |
| 11   | 3-155-010017-4  | CABLE ASSY 1/2 X 85' LENGTH <b>(12K AND 12K SLOPE)</b>                                        | REF  |
| 12   | 3-155-010018-6  | CABLE 5/8 W/LOOP 85FT <b>(20K AND 20K SLOPE)</b>                                              | REF  |
| 13   | 3-174-010038    | CHAIN LINK CONNECTING 1/2 <b>(ALL WINCH ASSEMBLIES)</b>                                       | 1    |
| 14   | 3-174-010039036 | CHAIN 1/2X36" GRD 7 21LINKS <b>(ALL WINCH ASSEMBLIES)</b>                                     | 1    |
| 15   | 3-711-010110    | SPACER, AIR TENSION MOUNT <b>(20 ONLY)</b>                                                    | 4    |
| 16   | 3-873-010126-2  | WINCH ASSY,12,000 LB PARKER <b>(12K AND 12K SLOPE)</b><br><b>(COMPONENTS - SEE PAGE 11-7)</b> | 1    |
| 17   | 3-873-010129-2  | WINCH ASSY,20000 LB, PARKER <b>(20K AND 20K SLOPE)</b><br><b>(COMPONENTS - SEE PAGE 11-7)</b> | 1    |
| 18   | 7HCGHT500       | HOOK CLEVIS GRAB 1/2 GR70 <b>(ALL WINCH ASSEMBLIES)</b>                                       | 1    |
| 19   | 3-481-010006    | MOTOR,HYD 7.1 CU IN/REV,SAE A <b>(12K WINCH)</b><br><b>(COMPONENTS - SEE PAGE 11-17)</b>      | REF  |
| 20   | 3-481-010007    | MOTOR HYD 12.9CU IN/REV,SAE B <b>(20K WINCH)</b><br><b>(COMPONENTS - SEE PAGE 11-17)</b>      | REF  |
| 21   | 2263            | KIT, SEAL <b>(NOT SHOWN)</b><br><b>(SEAL KIT FOR 12K AND 20K WINCH MOTOR)</b>                 | REF  |

## Winch Assembly, Braden 12K / 20K (OPTION)

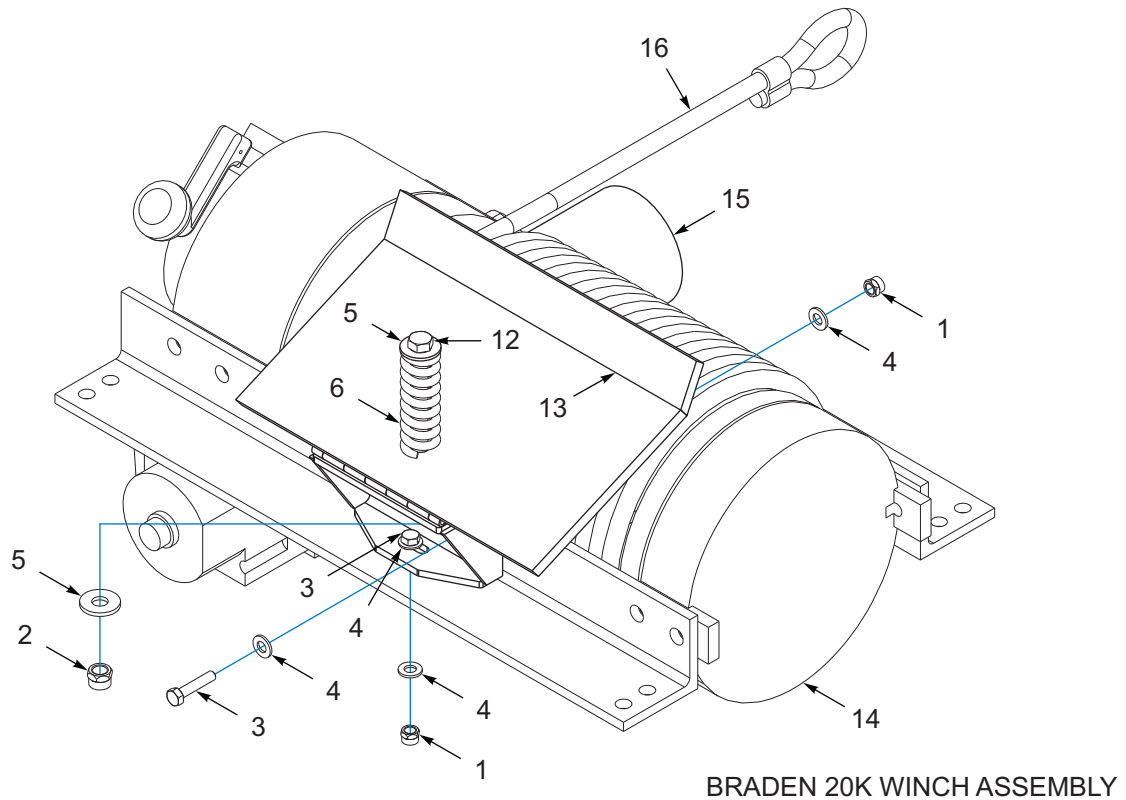
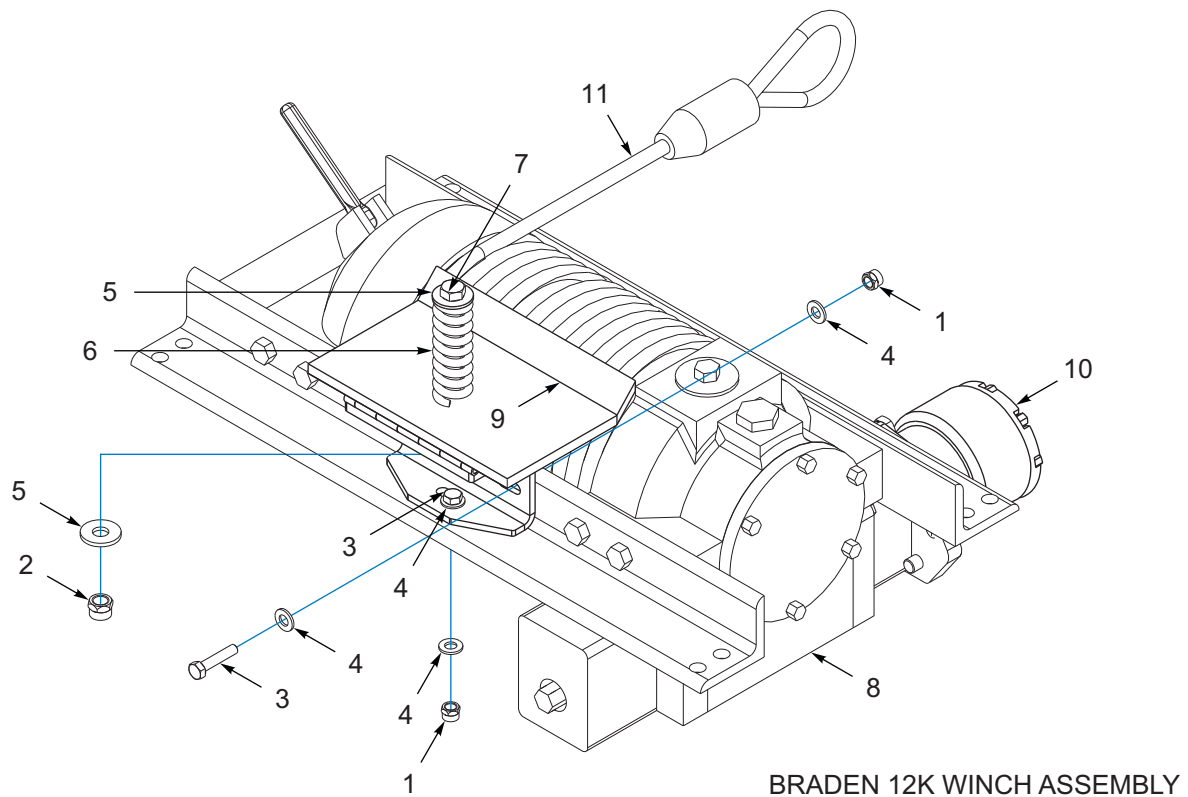


Figure 11-4: Winch Assembly, Braden 12K / 20K

## Winch Assembly, Braden 12K / 20K (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                  | QTY |
|------|-----------------|--------------------------------------------------------------------------------------------------------------|-----|
|      | 3-873-010126-2  | WINCH ASSY,12,000 LB PARKER                                                                                  | --  |
|      | 3-873-010129-2  | WINCH ASSY,20000 LB, PARKER                                                                                  | --  |
| 1    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                  | 3   |
| 2    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                   | 1   |
| 3    | 1-654-010051-06 | SCREW,HEX CAP 3/8-16UNCX1-1/4                                                                                | 3   |
| 4    | 1-861-010032-10 | WASHER, FLAT 3/8" N ZP/CD                                                                                    | 6   |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                                                     | 2   |
| 6    | 3-720-010010    | SPRING COMP LEVEL WIND                                                                                       | 1   |
| 7    | 1-654-010055-16 | SCREW HEX CAP 1/2-13X5-1/2GR5                                                                                | 1   |
| 8    | 3-873-010122    | WINCH, WORM GEAR 12,000 LB <b>(COMPONENTS - SEE PAGE 11-9)</b>                                               | 1   |
| 9    | 3-873-010124    | WINCH TENSIONER WLDMT 12K                                                                                    | 1   |
| 10   | 3-481-010006    | MOTOR,HYD 7.1 CU IN/REV,SAE A<br><b>(KEY SHAFT, 2 BOLT MOUNT)</b><br><b>(COMPONENTS - SEE PAGE 11-17)</b>    | 1   |
| 11   | 3-155-010017-4  | CABLE 1/2 W/LOOP 85FT <b>(12K)</b>                                                                           | 1   |
| 12   | 1-654-010055-17 | SCREW,HEX CAP,1/2-13UNCX6 GR5                                                                                | 1   |
| 13   | 102186          | WINCH TENS 20K BRADEN SPRG WLD                                                                               | 1   |
| 14   | 3-873-010123    | WINCH,WORM GEAR,20,000LB BRADN<br><b>(COMPONENTS - SEE PAGE 11-13)</b>                                       | 1   |
| 15   | 3-481-010007    | MOTOR HYD 12.9CU IN/REV,SAE B<br><b>(SPLINE SHAFT, 2 BOLT MOUNT)</b><br><b>(COMPONENTS - SEE PAGE 11-17)</b> | 1   |
| 16   | 3-155-010018-6  | CABLE 5/8 W/LOOP 85FT <b>(20K)</b>                                                                           | 1   |

## Winch Components, Braden 12K (OPTION)

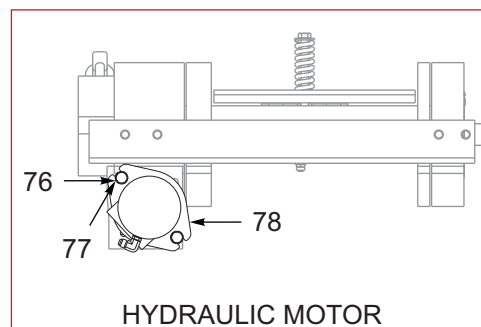
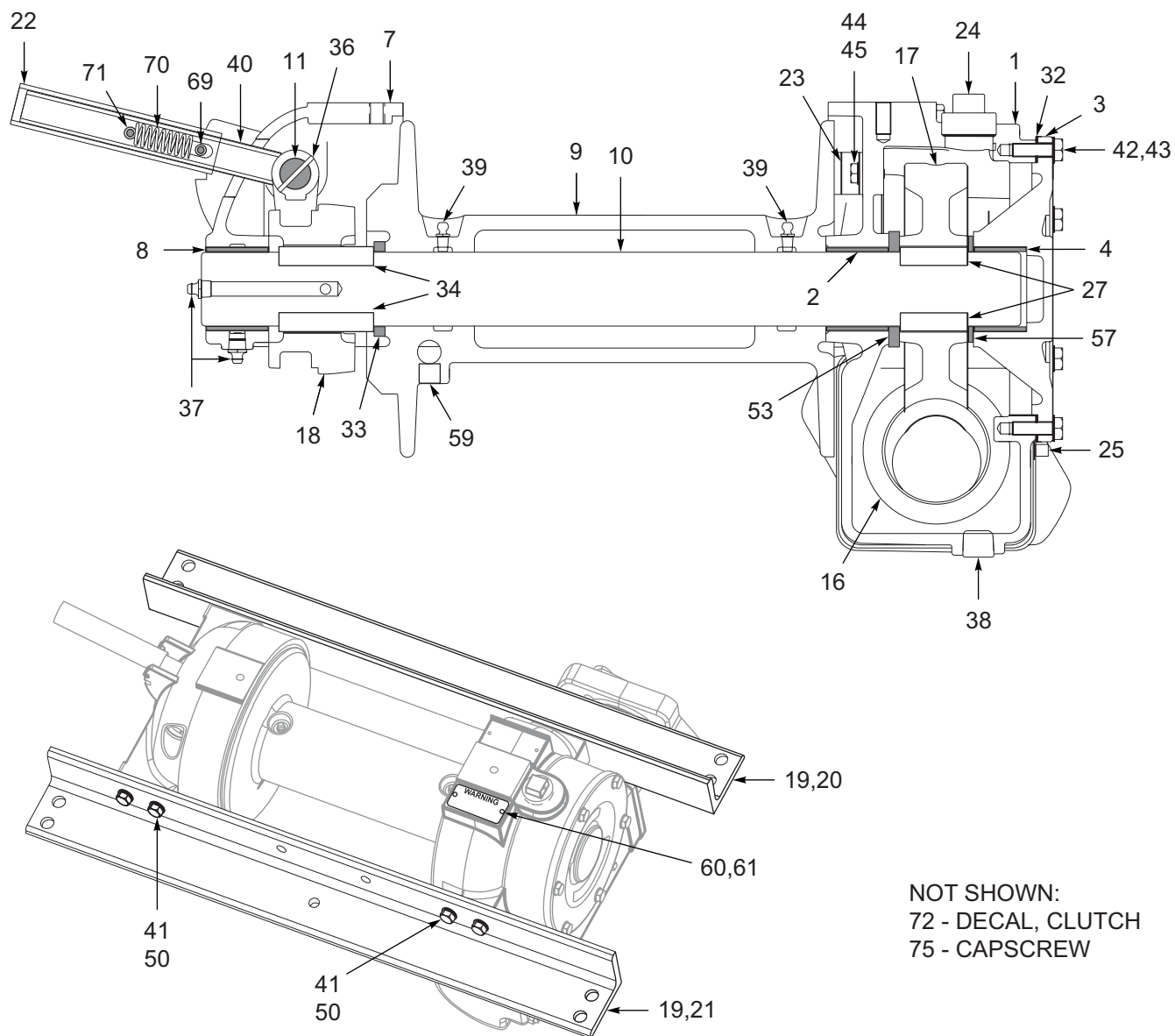


IMAGE COURTESY OF BRADEN WINCH MANUFACTURER.

Figure 11-5: Winch Components, Braden 12K (OPTION) (1 of 2)

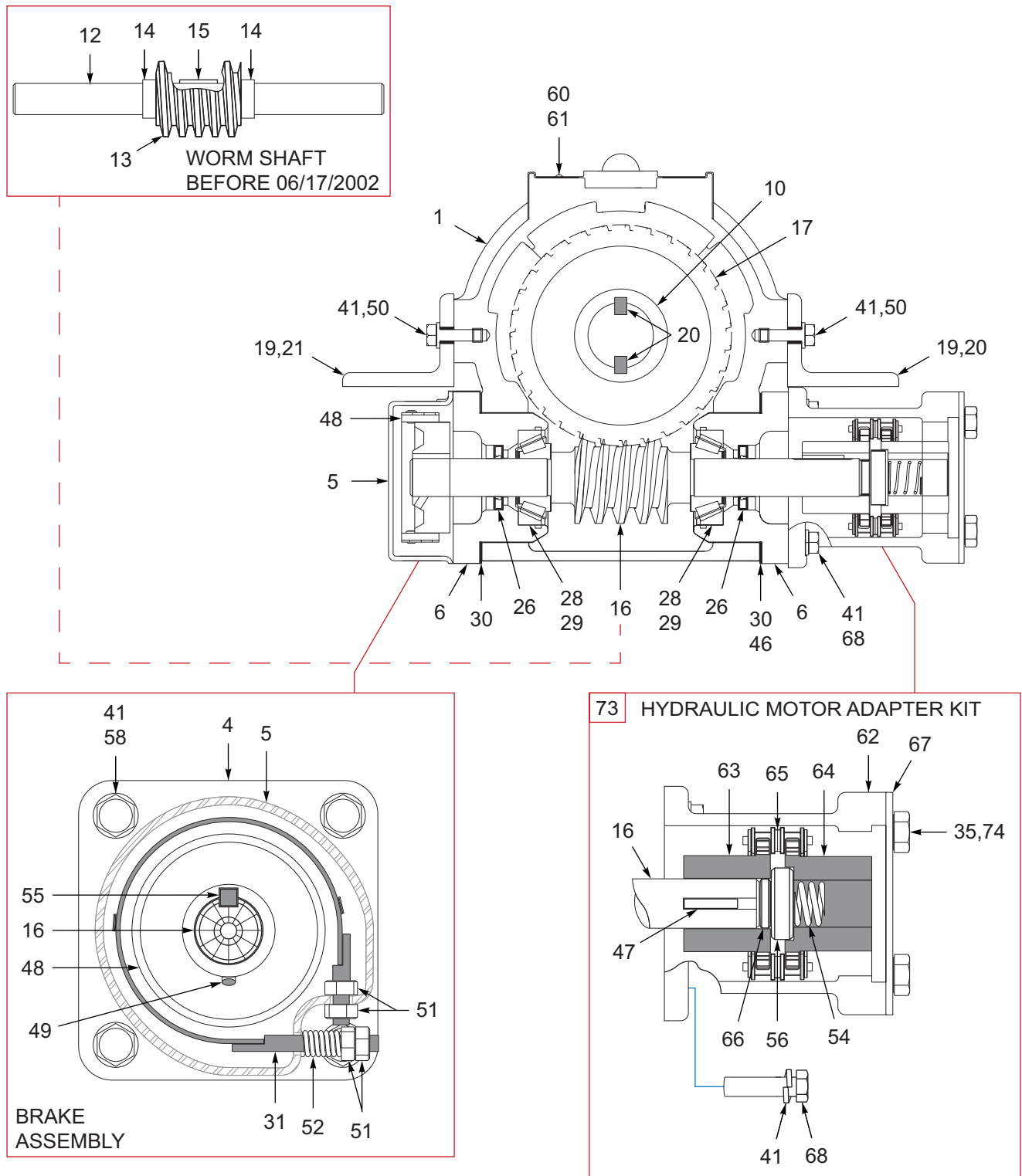


IMAGE COURTESY OF BRADEN WINCH MANUFACTURER.

**Figure 11-6: Winch Components, Braden 12K (OPTION) (2 of 2)**

## Winch Components, Braden 12K (OPTION)

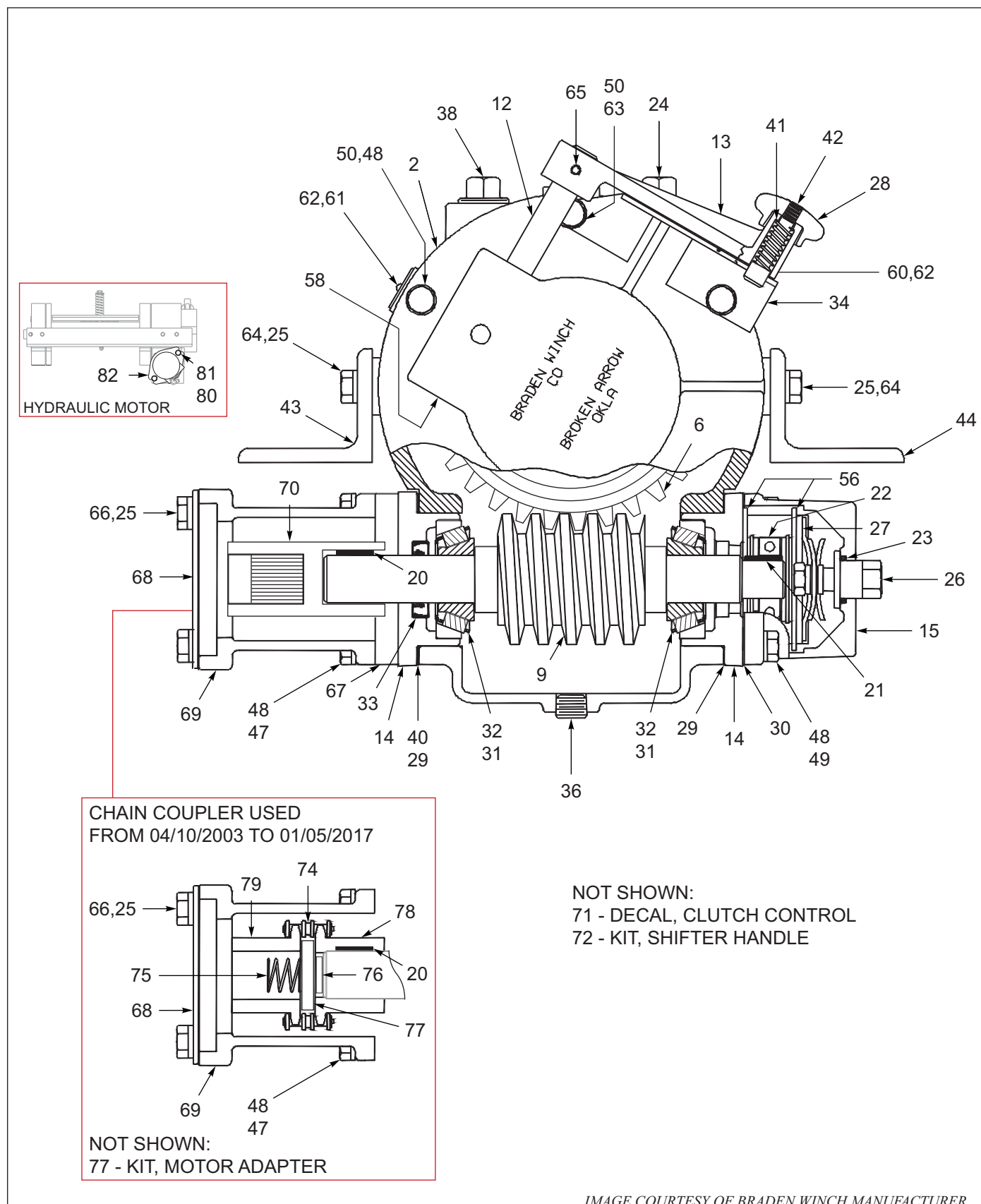
| ITEM | PART NUMBER    | DESCRIPTION                                                                                          | QTY |
|------|----------------|------------------------------------------------------------------------------------------------------|-----|
|      | 3-873-010122   | WINCH, WORM GEAR 12,000 LB                                                                           | --  |
|      | 3-873-010126-2 | WINCH ASSY, 12,000 LB PARKER (2 BOLT MOUNT MOTOR)                                                    | --  |
| 1    | 81006          | HOUSING (INCLUDES ITEM 2)                                                                            | 1   |
| 2    | 18078          | BUSHING-WORM HSG ASSY 12M BRAD (INCLUDED WITH ITEM 1)                                                | 1   |
| 3    | 81009          | LU2-144-0 WORM HOUSING COVER (INCLUDES ITEM 4)                                                       | 1   |
| 4    | 11368          | BUSHING 12K WORM WINCH HOUSING (INCLUDED WITH ITEM 3)                                                | 1   |
| 5    | 18032          | BRAKE HSG                                                                                            | 1   |
| 6    | 23303          | BEARING CONTAINER                                                                                    | 2   |
| 7    | 81530          | LEG ASSY (INCLUDES ITEM 8)                                                                           | 1   |
| 8    | 18077          | BUSHING (INCLUDED WITH ITEM 7)                                                                       | 1   |
| 9    | 11128          | CABLE DRUM                                                                                           | 1   |
| 10   | 11129          | CABLE DRUM SHAFT (BEFORE 06/17/2013)                                                                 | 1   |
| 10   | 248594         | CABLE DRUM SHAFT 12K (AFTER 06/17/2013)                                                              | 1   |
| 11   | 11130          | SHIFTER SHAFT BRADEN                                                                                 | 1   |
| 12   | 23470          | WORM SHAFT (BEFORE 06/17/2002, REPLACED BY ITEM 16)                                                  | 1   |
| 13   | 11142          | WORM (LITTLE GEAR)<br>(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)                                | 1   |
| 14   | 11308          | WORM SPACER (BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)                                          | 2   |
| 15   | 18030          | KEY (BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)                                                  | 1   |
| 16   | 248595         | WORM LU2-L GEAR/SHAFT 12K<br>(AFTER 06/17/2002, 1 PIECE, REPLACED ITEMS 12-15)                       | 1   |
| 17   | 11144          | GEAR, WORM, LH (BIG GEAR)                                                                            | 1   |
| 18   | 18039          | CLUTCH COLLAR                                                                                        | 1   |
| 19   | 22752          | ANGLE BASE ALU-2-146 12M BRAD<br>(BEFORE 10/23/1990, AFTER, REPLACED BY ITEMS 20-21)                 | 2   |
| 20   | 248596         | BASE ANGLE 12K MOTOR SIDE<br>(AFTER 10/23/1990, REPLACED ITEM 19)                                    | 1   |
| 21   | 249510         | BASE ANGLE 12K BRAKE SIDE<br>(AFTER 10/23/1990, REPLACED ITEM 19)                                    | 1   |
| 22   | 12817          | SHIFTER HANDLE                                                                                       | 1   |
| 23   | 81025          | DRAG BRAKE LGU2-10F WINCH                                                                            | 1   |
| 24   | 248358         | PLUG                                                                                                 | 1   |
| 25   | 18009          | PLUG                                                                                                 | 1   |
| 26   | 18026          | SEAL                                                                                                 | 2   |
| 27   | 11117          | KEY                                                                                                  | 2   |
| 28   | 18015          | BEARING CONE BRADEN LGU2                                                                             | 2   |
| 29   | 18016          | BEARING CUP BRADEN LGU2                                                                              | 2   |
| 30   | 18027          | GASKET (USED TO SHIM BEARING PRELOAD, QTY VARIES)                                                    | 6   |
| 31   | 21925          | BRK BAND ASSY                                                                                        | 1   |
| 32   | 11133          | SEAL                                                                                                 | 1   |
| 33   | 18019          | RING RETAINER                                                                                        | 1   |
| 34   | 18020          | CLUTCH KEY                                                                                           | 2   |
| 35   | 248597         | CAPSCREW 12K BRADEN (SHIPPING COVER)                                                                 | 2   |
| 36   | 11837          | ROLL PIN                                                                                             | 1   |
| 37   | 18047          | GREASE FITTING (BEFORE 06/17/2013, 1 EACH BOTTOM - AFTER, FITTING ADDED FITTING ON END OF THE SHAFT) | 2   |
| 38   | 19045          | DRAIN PLUG                                                                                           | 1   |
| 39   | 248598         | FITTING GREASE 12K BRADEN                                                                            | 2   |

## Winch Components, Braden 12K (OPTION)

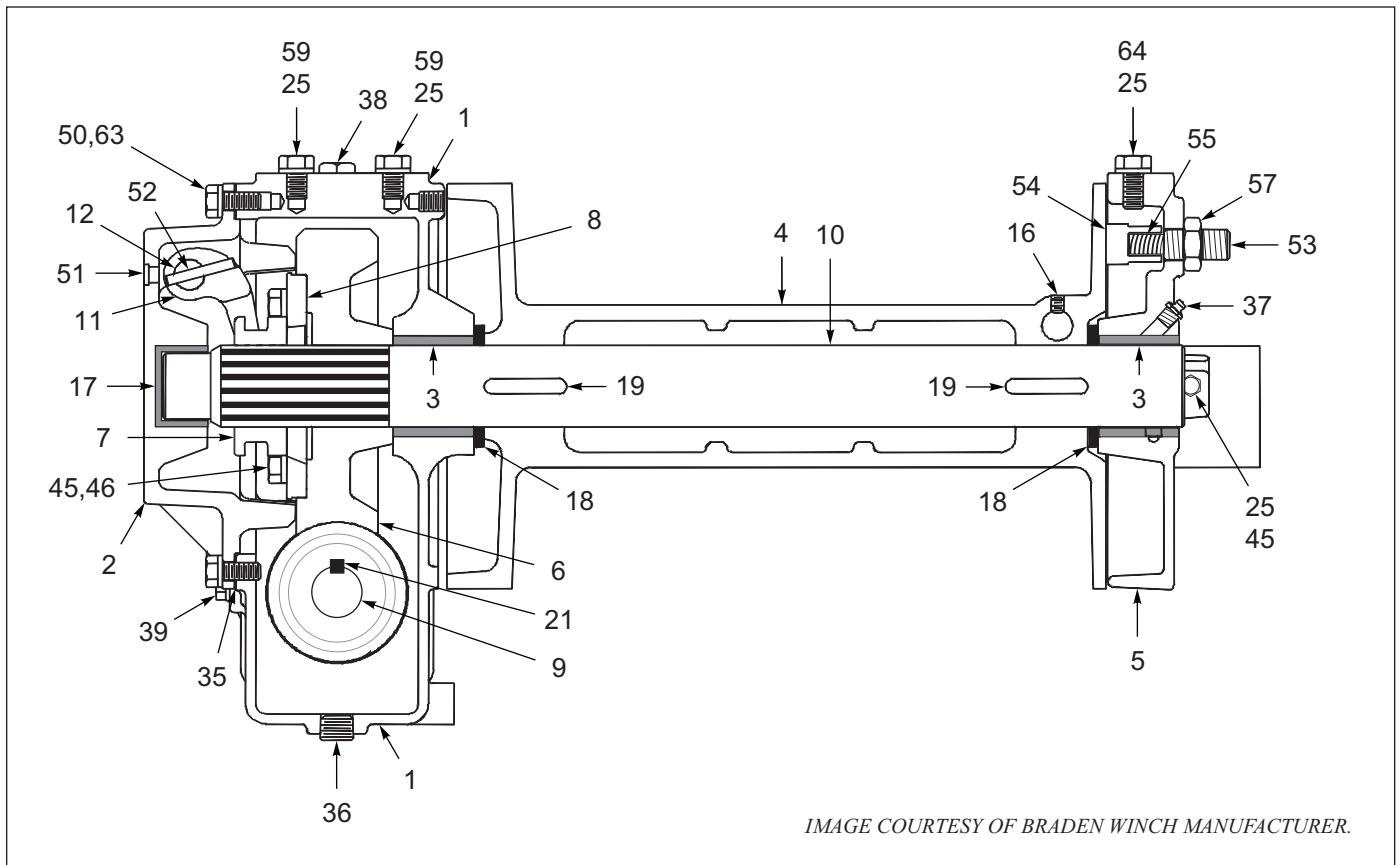
| ITEM | PART NUMBER     | DESCRIPTION                                                                                            | QTY |
|------|-----------------|--------------------------------------------------------------------------------------------------------|-----|
| 40   | 13839           | SHIFTER FORK LGU2                                                                                      | 1   |
| 41   | 248599          | LOCKWASHER 12K BRADEN <b>(INCLUDED WITH ITEM 73, 4 EACH)</b>                                           | 16  |
| 42   | 248600          | CAPSCREW 12K BRADEN                                                                                    | 6   |
| 43   | 248601          | WASHER SHPRF BRADEN 12K                                                                                | 6   |
| 44   | 249506          | CAPSCREW 12K BRADEN                                                                                    | 2   |
| 45   | 249507          | WASHER SHPRF 12K WASHER                                                                                | 2   |
| 46   | 18024           | GASKET                                                                                                 | 1   |
| 47   | 18044           | KEY                                                                                                    | 1   |
| 48   | 18028           | BRAKE DRUM                                                                                             | 1   |
| 49   | 12075           | SET SCREW                                                                                              | 1   |
| 50   | 247943          | CAPSCREW                                                                                               | 8   |
| 51   | 13468           | NUT                                                                                                    | 4   |
| 52   | 18029           | BRAKE BAND SPRING                                                                                      | 1   |
| 53   | 11240           | THRUST RING BRADEN LUU2                                                                                | 1   |
| 54   | 110452          | SPRING #23353 <b>(INCLUDED WITH ITEM 73)</b>                                                           | 1   |
| 55   | 10078           | ROTOR KEY                                                                                              | 1   |
| 56   | 23078           | CONSTANT SPACER <b>(INCLUDED WITH ITEM 73)</b>                                                         | 1   |
| 57   | 13680           | RING,THRUST                                                                                            | 1   |
| 58   | 249508          | CAPSCREW 12K BRADEN<br><b>(INCLUDED WITH ITEM 73, ADDITIONAL 4 EACH, NOT USED)</b>                     | 4   |
| 59   | 218058          | SET SCREW 12K WINCH CABLE                                                                              | 1   |
| 60   | 248506          | WARNING PLATE BRADEN                                                                                   | 1   |
| 61   | 248507          | DRIVE SCREW BRADEN 20K                                                                                 | 2   |
| 62   | 23079           | MOTOR ADAPTER 12M WINCH <b>(INCLUDED WITH ITEM 73)</b>                                                 | 1   |
| 63   | 23081           | COUPLER HALF WINCH <b>(INCLUDED WITH ITEM 73)</b>                                                      | 1   |
| 64   | 23083           | COUPLING HALF MOTOR LGU2-10F <b>(INCLUDED WITH ITEM 73)</b>                                            | 1   |
| 65   | 13424           | CHAIN RLR <b>(INCLUDED WITH ITEM 73)</b>                                                               | 1   |
| 66   | 115851          | SPACER #23085 <b>(INCLUDED WITH ITEM 73)</b>                                                           | 1   |
| 67   | 249509          | SHIELD DUST MU7-502DG 12K <b>(SHIPPING COVER)</b>                                                      | 1   |
| 68   | 110449          | CAPSCREW <b>(INCLUDED WITH ITEM 73)</b>                                                                | 4   |
| 69   | 13028           | ROLL PIN                                                                                               | 1   |
| 70   | 18002           | SPRING                                                                                                 | 1   |
| 71   | 18056           | ROLLPIN                                                                                                | 1   |
| 72   | 100600          | DECAL, CLUTCH                                                                                          | 1   |
| 73   | 61333           | HYD. MOTOR ADAPTER KIT, 12,000# WINCH<br><b>(INCLUDES ITEMS 41, 54, 56, 58, 62-68, 74-75)</b>          | 1   |
| 74   | 216581          | LOCKWASHER <b>(INCLUDED WITH ITEM 73) (SHIPPING COVER)</b>                                             | 4   |
| 75   | 248511          | CAPSCREW <b>(INCLUDED WITH ITEM 73) (MOTOR SIDE, NOT USED)</b>                                         | 4   |
| 76   | 1-654-010055-04 | SCREW,HEX CAP,1/2-13UNCX1-3/4                                                                          | 2   |
| 77   | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                                              | 2   |
| 78   | 3-481-010006    | MOTOR,HYD 7.1 CU IN/REV,SAE A <b>(KEY SHAFT, 2 BOLT MOUNT)</b><br><b>(COMPONENTS - SEE PAGE 11-17)</b> | 1   |



## Winch Components, Braden 20K (OPTION)



**Figure 11-7: Winch Components, Braden 20K (OPTION) (1 of 2)**



**Figure 11-8: Winch Components, Braden 20K (OPTION) (2 of 2)**

## Winch Components, Braden 20K (OPTION)

| ITEM | PART NUMBER    | DESCRIPTION                                                | QTY |
|------|----------------|------------------------------------------------------------|-----|
|      | 3-873-010123   | WINCH,WORM GEAR,20,000LB BRADN                             | --  |
|      | 3-873-010129-2 | WINCH ASSY,20000 LB, PARKER                                | --  |
| 1    | 81078          | WORM HOUSING ASSY                                          | 1   |
| 2    | 248354         | WORM HOUSING COVER ASSY                                    | 1   |
| 3    | 18035          | BUSHING                                                    | 2   |
| 4    | 11449          | DRUM CABLE, BRADEN 20K WINCH                               | 1   |
| 5    | 81077          | LEG ASSEMBLY, BEARING                                      | 1   |
| 6    | 11434          | GEAR,WORM, RIGHT ( <b>BIG GEAR</b> )                       | 1   |
| 7    | 11421          | SLIDING CLUTCH                                             | 1   |
| 8    | 11419          | CLUTCH DRIVE                                               | 1   |
| 9    | 248355         | WORM AMU7-R GEAR/SHAFT ( <b>GEAR &amp; SHAFT 1 PIECE</b> ) | 1   |
| 10   | 139479         | CABLE DRUM SHAFT                                           | 1   |
| 11   | 11440          | SHIFTER FORK AMU7-16F WINCH                                | 1   |
| 12   | 11441          | SHAFT, SHIFTER                                             | 1   |
| 13   | 26976          | SHIFTER HANDLE AMU7 WINCH ( <b>INCLUDED WITH ITEM 72</b> ) | 1   |
| 14   | 124549         | BEARING CONTAINER #11427                                   | 2   |
| 15   | 248356         | MU7-250 WM BRAKE COVER                                     | 1   |
| 16   | 139478         | SET SCREW FOR 20K WINCH                                    | 1   |
| 17   | 11425          | BUSHING                                                    | 1   |
| 18   | 11420          | RING, RETAINING                                            | 2   |
| 19   | 163472         | KEY, DRUM SHAFT                                            | 4   |
| 20   | 23367          | KEY SPROCKET ( <b>INCLUDED WITH ITEM 73</b> )              | 1   |

## Winch Components, Braden 20K (OPTION)

| ITEM | PART NUMBER | DESCRIPTION                                                     | QTY |
|------|-------------|-----------------------------------------------------------------|-----|
| 21   | 10078       | ROTOR KEY                                                       | 1   |
| 22   | 81080       | ROTOR ASSY, BRAKE                                               | 1   |
| 23   | 12465       | O-RING                                                          | 1   |
| 24   | 248357      | PIPE PLUG                                                       | 1   |
| 25   | 216581      | LOCKWASHER<br>(SHIPPING COVER, REQ 4 EACH, INCLUDED IN ITEM 73) | 15  |
| 26   | 81081       | SPRING ASSY SAFETY BRAKE 20K                                    | 1   |
| 27   | 11431       | PRESSURE PLATE AMU7 WINCH                                       | 1   |
| 28   | 18022       | SHIFTER KNOB 20# WINCH (INCLUDED WITH ITEM 72)                  | 1   |
| 29   | 11429       | GASKET (USED TO SHIM BEARING PRELOAD, QTY VARIES)               | 6   |
| 30   | 11446       | GASKET                                                          | 1   |
| 31   | 18033       | BEARING, CONE                                                   | 2   |
| 32   | 18034       | BEARING, CUP                                                    | 2   |
| 33   | 12073       | SEAL, GREASE                                                    | 1   |
| 34   | 12783       | LOCATING BRACKET AMU7 WINCH                                     | 1   |
| 35   | 11411       | HOUSING COVER GASKET AMUF-16F                                   | 1   |
| 36   | 19045       | DRAIN PLUG                                                      | 1   |
| 37   | 18047       | GREASE FITTING                                                  | 1   |
| 38   | 248358      | PLUG                                                            | 1   |
| 39   | 248359      | PLUG                                                            | 1   |
| 40   | 11430       | GASKET                                                          | 1   |
| 41   | 11310       | SPRING, SHIFTER KNOB 20# WNCN (INCLUDED WITH ITEM 72)           | 1   |
| 42   | 11309       | STEM, SHIFTER KNOB 20# WINCH (INCLUDED WITH ITEM 72)            | 1   |
| 43   | 248360      | BASE ANGLE FRONT                                                | 1   |
| 44   | 248361      | BASE ANGLE REAR                                                 | 1   |
| 45   | 248309      | CAPSCREW MOTOR BRADEN 20K                                       | 12  |
| 46   | 248363      | LOCKWASHER KEV 1 BRADEN 20K                                     | 8   |
| 47   | 248364      | CAPSCREW BRADEN 20K (INCLUDED WITH ITEM 73)                     | 4   |
| 48   | 248501      | LOCKWASHER 20K BRADEN (INCLUDED WITH ITEM 73, 4 EACH)           | 13  |
| 49   | 248502      | CAPSCREW BRADEN 20K                                             | 4   |
| 50   | 248503      | CAPSCREW BRADEN 20K                                             | 6   |
| 51   | 12146       | PLUG, EXPANSION                                                 | 1   |
| 52   | 13028       | ROLL PIN (SHIFTER SHAFT TO FORK)                                | 1   |
| 53   | 11398       | SCREW, ADJUSTMENT                                               | 1   |
| 54   | 88005       | DRAG BRAKE SHOE ASSY                                            | 1   |
| 55   | 18002       | SPRING                                                          | 1   |
| 56   | 11426       | DISC, FRICTION                                                  | 2   |
| 57   | 11791       | NUT, JAM                                                        | 1   |
| 58   | 12767       | PLUG, EXPANSION                                                 | 1   |
| 59   | 248504      | CAPSCREW BRADEN 20K                                             | 2   |
| 60   | 248505      | NAMEPLATE (AMU7) SAE BRADEN                                     | 1   |
| 61   | 248506      | WARNING PLATE BRADEN                                            | 1   |
| 62   | 248507      | DRIVE SCREW BRADEN 20K (USED TO MOUNT ITEMS 61-62)              | 4   |
| 63   | 248508      | WASHER SHPRF 20K BRADEN                                         | 1   |
| 64   | 248509      | CAPSCREW BRADEN 20K                                             | 5   |
| 65   | 248510      | ROLL PIN HANDLE TO SHIFTER (HANDLE TO SHAFT)                    | 1   |
| 66   | 248511      | CAPSCREW BRADEN 20K (SHIPPING COVER)<br>(INCLUDED WITH ITEM 73) | 4   |
| 67   | 248512      | ADAPTER SPACER 20K BRADEN (INCLUDED WITH ITEM 73)               | 1   |

## Winch Components, Braden 20K (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                                     | QTY |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 68   | 248513          | COVER PLATE 20K BRADEN (SHIPPING COVER)                                                                                                         | 1   |
| 69   | 23144           | ADAPTER MOTOR 20M WINCH (INCLUDED WITH ITEM 73)                                                                                                 | 1   |
| 70   | 248516          | SOLID COUPLING BRADEN 20K (AFTER 01/05/2017)<br>(BEFORE 01/05/2017, CHAIN COUPLER USED)                                                         | 1   |
| 71   | 100600          | DECAL, CLUTCH CONTROL (NOT SHOWN) (AFTER 01/05/2017)                                                                                            | 1   |
| 72   | 125684          | SHIFTER HANDLE BLACK (KIT INCLUDES ITEMS 13, 28, 41-42)                                                                                         | 1   |
| 73   | 61344           | MOTOR ADPT 20M BRADEN WINCH (CHAIN COUPLER KIT ONLY)<br>(FROM 04/10/2003 TO 01/05/2017)<br>(KIT INCLUDES ITEMS 20, 25, 47-48, 66-67, 69, 74-79) | 1   |
| 74   | 13424           | CHAIN RLR (BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)                                                                                           | 1   |
| 75   | 110452          | SPRING #23353 (BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)                                                                                       | 1   |
| 76   | 115851          | SPACER #23085 (BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)                                                                                       | 1   |
| 77   | 248514          | CONSTANT SPACER 20K BRADEN (BEFORE 01/05/2017)<br>(INCLUDED WITH ITEM 73)                                                                       | 1   |
| 78   | 23082           | WINCH SPROCKET 20K BRADEN (BEFORE 01/05/2017)<br>(INCLUDED WITH ITEM 73)                                                                        | 1   |
| 79   | 23145           | MOTOR SPROCKET 20K BRADEN (BEFORE 01/05/2017)<br>(INCLUDED WITH ITEM 73)                                                                        | 1   |
| 80   | 1-654-010055-04 | SCREW,HEX CAP,1/2-13UNCX1-3/4                                                                                                                   | 2   |
| 81   | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                                                                                       | 2   |
| 82   | 3-481-010007    | MOTOR HYD 12.9CU IN/REV,SAE B (SPLINE SHAFT, 2 BOLT<br>MOUNT) (COMPONENTS - SEE PAGE 11-17)                                                     | 1   |

## Winch Motor Assembly, Braden 12K / 20K

NOT SHOWN:  
17 - KIT, SEAL

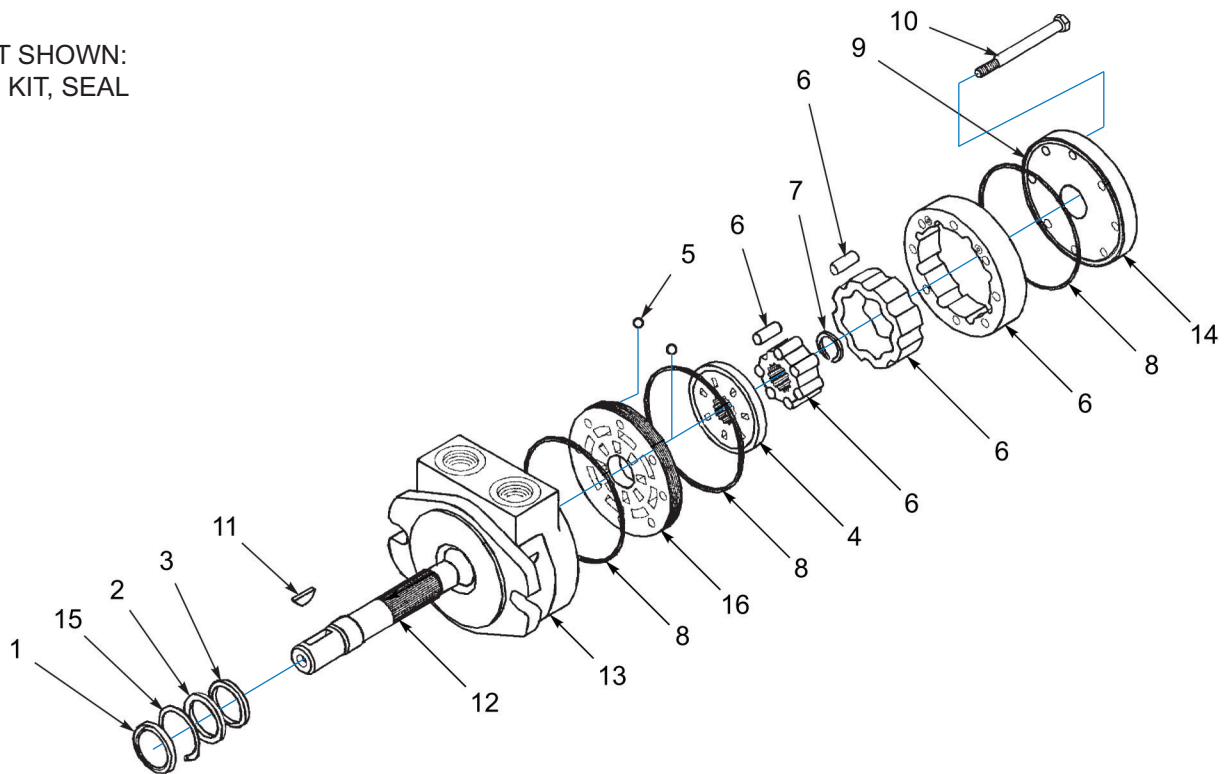


Figure 11-9: Winch Motor Assembly, Braden 12K / 20K

## Winch Motor Assembly, Braden 12k / 20K

| ITEM | PART NUMBER  | DESCRIPTION                                 | QTY |
|------|--------------|---------------------------------------------|-----|
|      | 3-481-010006 | MOTOR, HYD 7.1 CU IN/REV, SAE A (12K WINCH) | --  |
|      | 3-481-010007 | MOTOR HYD 12.9CU IN/REV, SAE B (20K WINCH)  | --  |
| 1    | -----        | SEAL DUST                                   | 1   |
| 2    | -----        | BACK-UP RING                                | 1   |
| 3    | -----        | SEAL LIP                                    | 1   |
| 4    | -----        | ROTARY VALVE                                | 1   |
| 5    | -----        | CHECK VALVE BALL                            | 2   |
| 6    | -----        | IGR ASSEMBLY - 20K WINCH                    | 1   |
| 6    | -----        | IGR ASSEMBLY - 12K WINCH                    | 1   |
| 7    | -----        | SNAP RING                                   | 1   |
| 8    | 1046         | SEAL SQ RING, MOTOR                         | 3   |
| 9    | -----        | PLUG VENT W/O-RING                          | 1   |
| 10   | -----        | BOLTS HEX - 20K WINCH                       | 8   |
| 10   | -----        | BOLTS HEX - 12K WINCH                       | 8   |
| 11   | -----        | KEY WOODRUFF                                | 1   |
| 12   | -----        | SHAFTFOR - 20K WINCH (SPLINED SHAFT)        | 1   |
| 12   | -----        | SHAFTFOR - 12K WINCH (KEY SHAFT)            | 1   |
| 13   | -----        | BODY/BEARING ASSEMBLY - 20K WINCH           | 1   |
| 13   | -----        | BODY/BEARING ASSEMBLY - 12K WINCH           | 1   |
| 14   | -----        | COVER/BEARING ASSEMBLY                      | 1   |
| 15   | -----        | SNAP RING SHAFT                             | 1   |
| 16   | -----        | COMMUTATOR PLATE                            | 1   |
| 17   | 2263         | KIT, SEAL (NOT SHOWN)                       | 1   |
| 17   | -----        | SEAL KIT BODY VITON (NOT SHOWN)             | 1   |

## Winch Guide, Braden 20K, 4-Roller (OPTION)

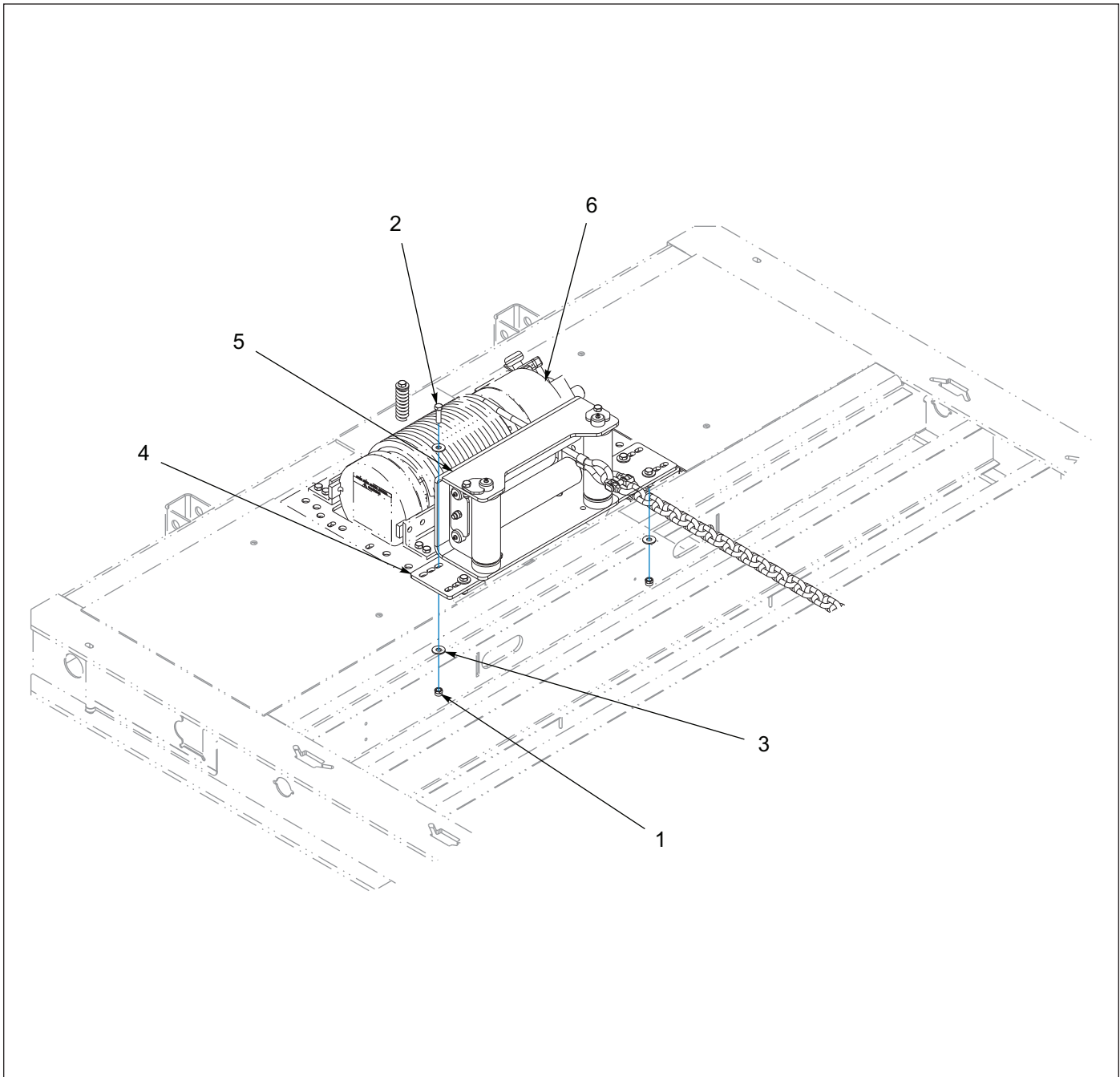


Figure 11-10: Winch Guide, Braden 20K, 4-Roller (OPTION)

## Winch Guide, Braden 20K, 4-Roller (OPTION)

| ITEM | PART NO.        | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 145589          | GUIDE INSTL 4 ROLLER 20K BR   | --   |
| 1    | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB    | 8    |
| 2    | 1-654-010055-04 | SCREW,HEX CAP,1/2-13UNCX1-3/4 | 8    |
| 3    | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD      | 15   |
| 4    | 145588          | PLATE ROLLER GUIDE MT 400     | 1    |
| 5    | 3-352-010067-2  | GUIDE ASSY 20K WINCH          | 1    |

[illegible]



# Engine Assembly (OPTIONS)

## Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION)

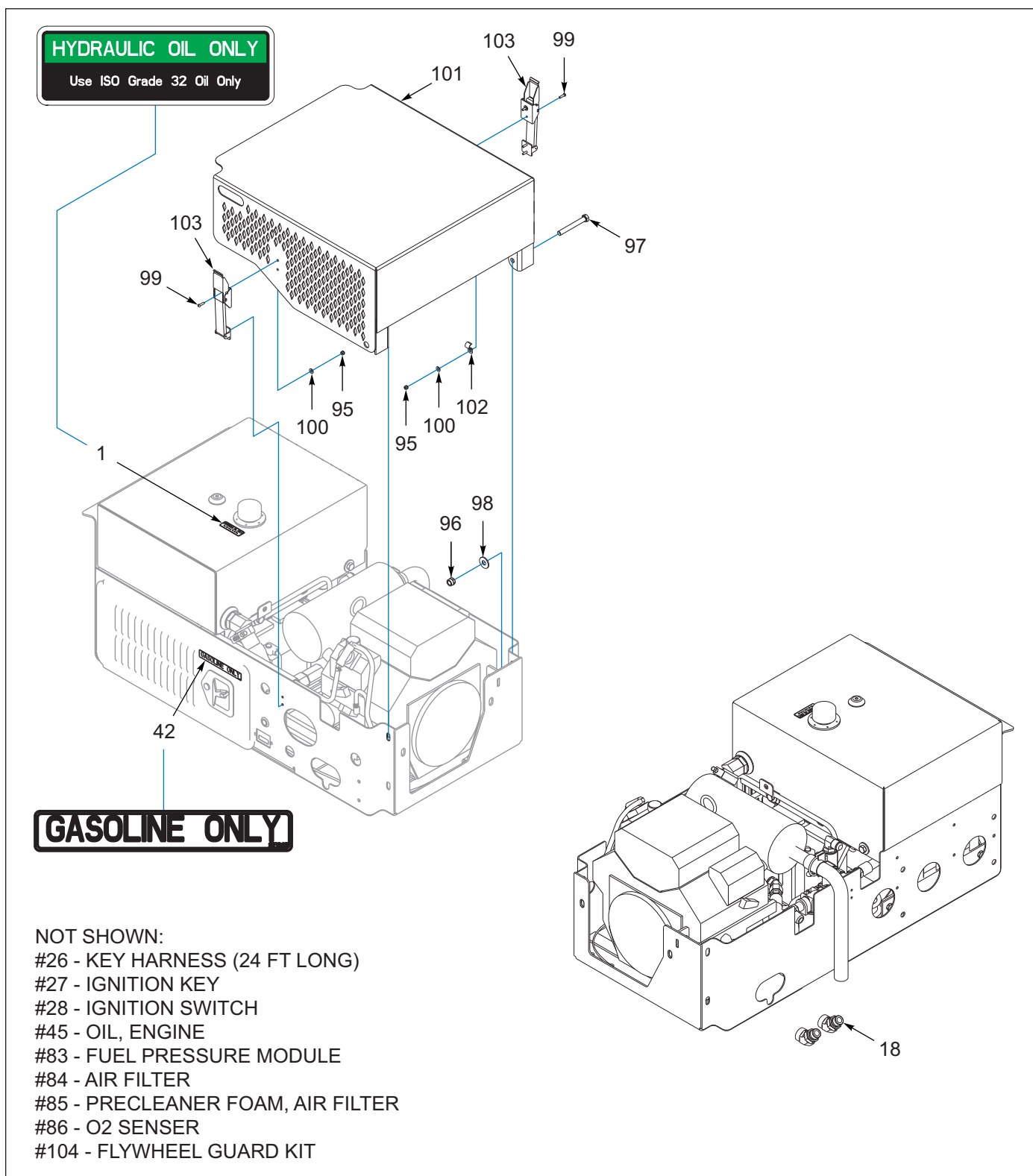
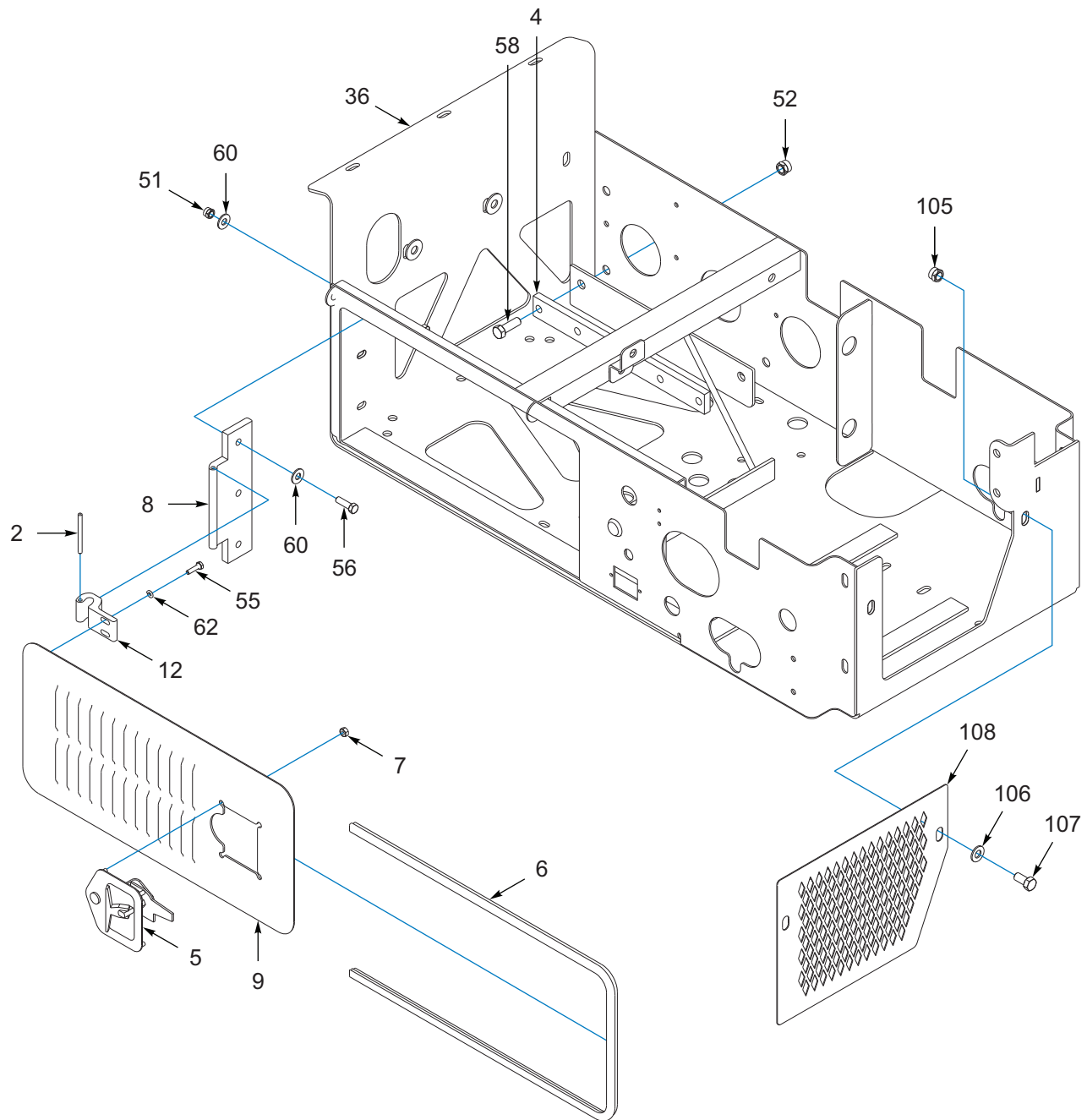


Figure 12-1: Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) (1 of 5)



**Figure 12-2: Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) (2 of 5)**

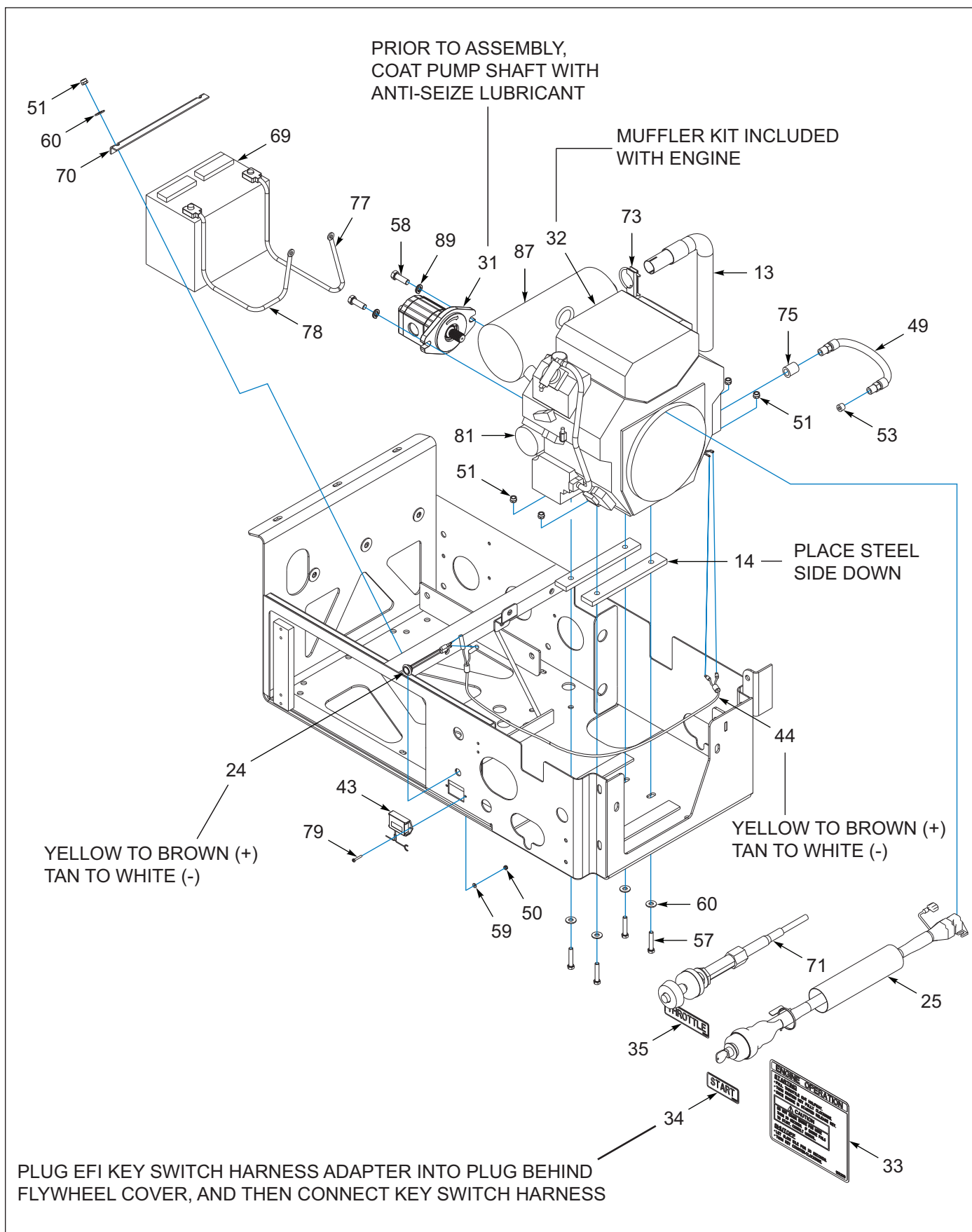
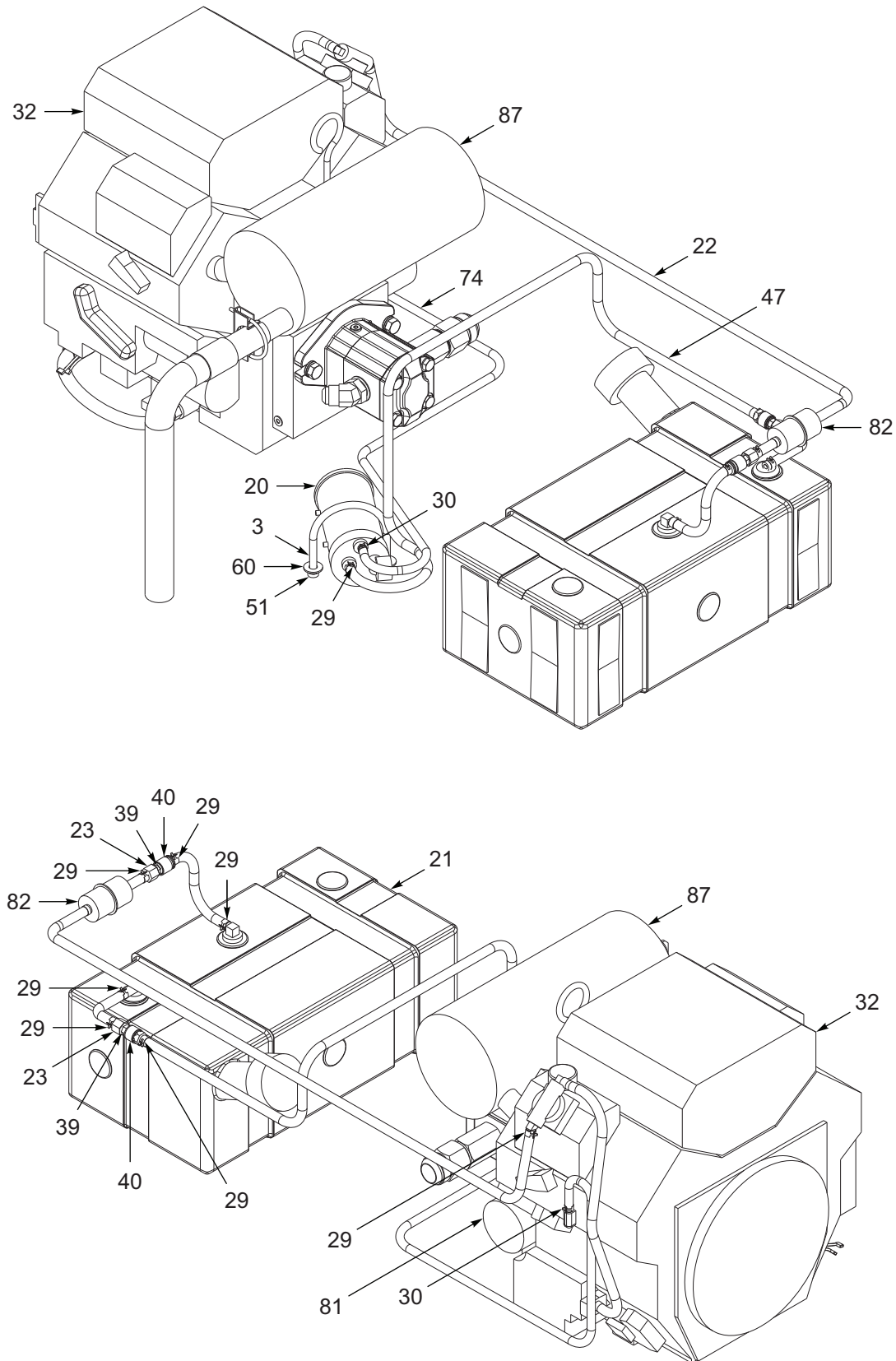


Figure 12-3: Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) (3 of 5)



**Figure 12-4: Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) (4 of 5)**

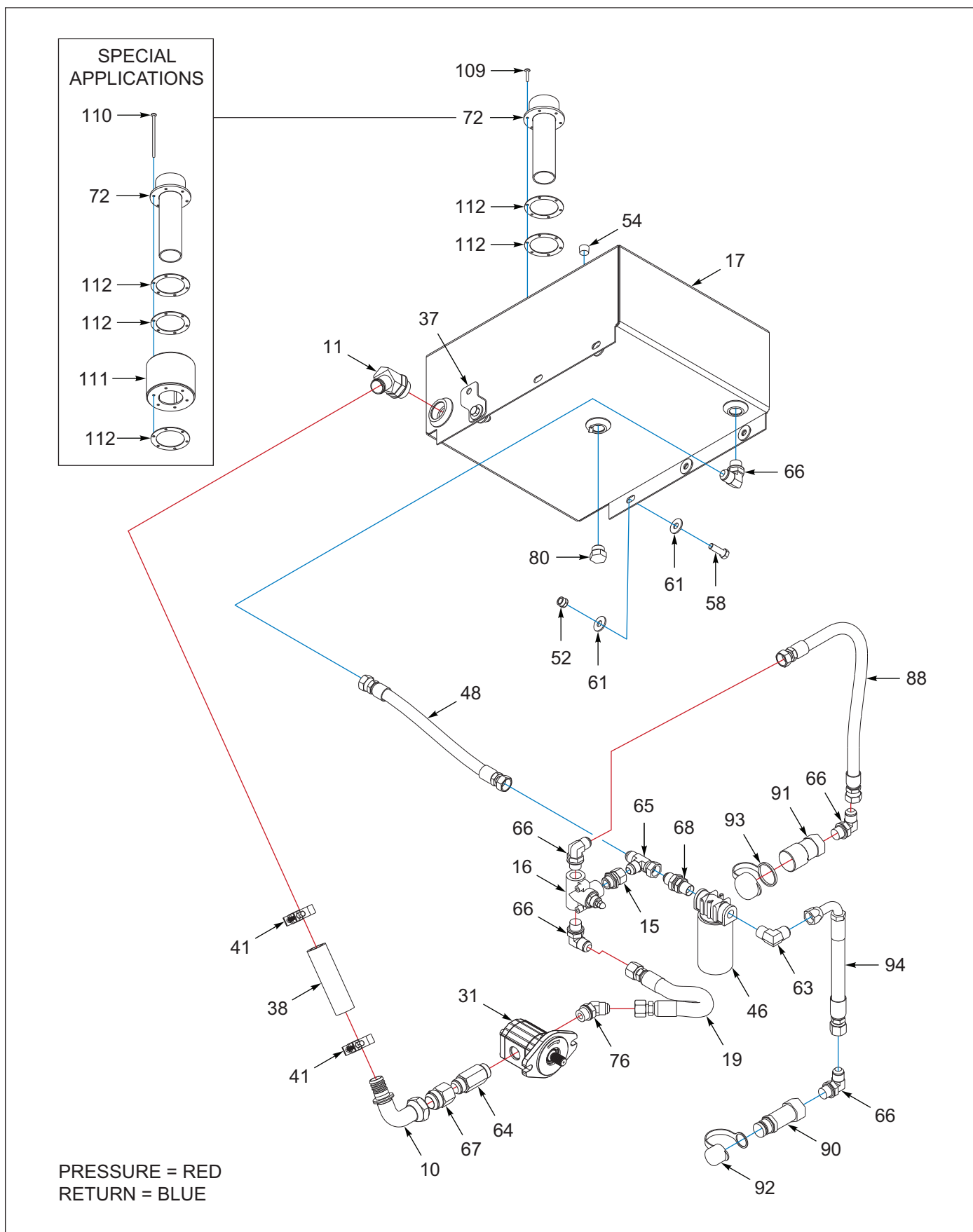


Figure 12-5: Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION) (5 of 5)

## Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION)

| ITEM | PART NO.     | DESCRIPTION                                                                                                                                  | QTY. |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 189370       | ENG PKG 25 HP EFI 15 GAL                                                                                                                     | --   |
| 1    | 10109        | DECAL, HYDRAULIC FLUID ONLY ( <b>ADDED AFTER 11/19/2018</b> )                                                                                | 1    |
| 2    | 108601       | PIN, DOOR HINGE                                                                                                                              | 2    |
| 3    | 110578       | U-BOLT, 3/8-16 x 3-1/8 x 4-1/8                                                                                                               | 1    |
| 4    | 113856       | MOUNT,ENG ISOLATOR,KOHLERCH25                                                                                                                | 2    |
| 5    | 114814       | LATCH FOLDING T LOCKABLE                                                                                                                     | 1    |
| 6    | 114815       | SEAL, SPONGE RUBBER TRIM ( <b>BY THE FOOT</b> )                                                                                              | 5    |
| 7    | 115877       | NUT HVY HEX 1/4-20 GR5                                                                                                                       | 4    |
| 8    | 116326       | HINGE,BASE MNT, COM ENG PKG                                                                                                                  | 1    |
| 9    | 116328       | MOUNT,DOOR WLDMT,COM ENG PKG                                                                                                                 | 1    |
| 10   | 116330       | FITTING 1.25F 37-1.25 BARB 90                                                                                                                | 1    |
| 11   | 117873       | FITTING,1.63-12 SAE-1 25H/B45                                                                                                                | 1    |
| 12   | 119206       | HINGE, DOOR ENG DRV, 25HP                                                                                                                    | 2    |
| 13   | 119445       | EXHAUST EXT WLDMT 25HP E/P                                                                                                                   | 1    |
| 14   | 120659       | ISOLATOR, KOHLER 25HP MOUNT                                                                                                                  | 2    |
| 15   | 120660       | ADAPTER #12-O/RFEM-12#FL M                                                                                                                   | 1    |
| 16   | 120661       | VALVE,HYD PRES,#12SAE,2500P                                                                                                                  | 1    |
| 17   | 120662       | HYD TANK WLDMT, 15G E/P                                                                                                                      | 1    |
| 18   | 138209       | ADAPTER HYD 45#12 MALE-FEMORB                                                                                                                | 2    |
| 19   | 143850       | HOSE ASSY 3/4X35OAL #12F JIC                                                                                                                 | 1    |
| 20   | 166766       | CARBON CANISTER,FUEL TANK,GAS                                                                                                                | 1    |
| 21   | 169531       | TANK,FUEL PLSTC,6 GAL,LOW PERM                                                                                                               | 1    |
| 22   | 169532       | HOSE, FUEL,1/4 LOW PERM, CARB ( <b>BY THE FOOT</b> )                                                                                         | 5    |
| 23   | 173860       | FITTING,1/4 HOSE BARBX1/4 FNPT                                                                                                               | 2    |
| 24   | 175591       | LIGHT YEL LED .75 CL.MK GROTE                                                                                                                | 1    |
| 25   | 178428       | SWITCH/HARNESS ASSY KOHLER UD ( <b>25A - 24 FEET LONG, STANDARD WITH ENGINE PACKAGE</b> ) ( <b>INCLUDES ITEMS 26-28</b> )                    | 1    |
| 25   | 178431       | SWITCH/HARNESS ASSY KOHLER ( <b>25B - 40 FEET LONG, USED WITH SPECIAL MOUNT APPLICATIONS, NOT INCLUDED</b> ) ( <b>INCLUDES ITEMS 27-28</b> ) | 1    |
| 26   | 178425       | HARNESS ASSY KOHLER ENG HARNESS ASSY KOHLER ENG ( <b>24 FEET LONG, INCLUDED WITH ITEM 25A, NOT SHOWN</b> )                                   | 1    |
| 27   | 228958       | IGNITION KEYS (1 PAIR) INDAK ( <b>NOT SHOWN</b> )                                                                                            | 1    |
| 28   | 3-765-010050 | SWITCH,ENG IGN,KOHLER MH22 ( <b>2509904</b> ) ( <b>INCLUDES ITEM 27, NOT SHOWN</b> )                                                         | 1    |
| 29   | 178638       | SPRING CLAMP, 1/2"OD FUEL HOSE                                                                                                               | 8    |
| 30   | 179090       | SPRING CLAMP,7/16"OD FUEL HOSE                                                                                                               | 2    |
| 31   | 186811       | PUMP HYDRAULIC GEAR 0.77CID                                                                                                                  | 1    |
| 32   | 189308       | ENGINE,KOHLER,25HP,EFI,PUMP ( <b>CH740-3052</b> )                                                                                            | 1    |
| 33   | 189309       | DECAL,EFI ENG PKG INSTR                                                                                                                      | 1    |
| 34   | 189310       | DECAL, START, ENG PKG                                                                                                                        | 1    |
| 35   | 189311       | DECAL, THROTTLE, ENG PKG                                                                                                                     | 1    |
| 36   | 189361       | WLDMT,ENG PKG MT, 25HP EFI                                                                                                                   | 1    |
| 37   | 189369       | PLATE,FUEL HOSE CLAMP                                                                                                                        | 1    |
| 38   | 193904       | HOSE, 1-1/4 X 7-1/2, SUCTION                                                                                                                 | 1    |
| 39   | 202225       | FITTING 1/4 MNPT/MALE QD                                                                                                                     | 2    |
| 40   | 202226       | FITTING5/16 HOSEBARB/FEMALE QD                                                                                                               | 2    |
| 41   | 209878       | HOSE CLAMP T-BOLT25/32 X 1-3/4                                                                                                               | 2    |
| 42   | 218046       | DECAL GASOLINE ONLY ( <b>ADDED AFTER 11/19/2018</b> )                                                                                        | 1    |

## Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                                                    | QTY. |
|------|-----------------|----------------------------------------------------------------------------------------------------------------|------|
| 43   | 220977          | METER HOUR/TACH DIGITAL                                                                                        | 1    |
| 44   | 223219          | ENG MIL EXT ADAPTER HARNESS                                                                                    | 1    |
| 45   | 1410792         | OIL, ENGINE 10W-30 <b>(NOT SHOWN) (BY THE GALLON)</b>                                                          | 0.5  |
| 46   | 1-295-010001    | FILTER, RETURN LINE                                                                                            | 1    |
| 47   | 1-316-010013    | HOSE, 1/4 LOW PRESSURE FUEL <b>(BY THE FOOT)</b>                                                               | 5    |
| 48   | 1-397-010304018 | HOSE ASSY, 3/4X18, SAE37, STR-ST                                                                               | 1    |
| 49   | 1-397-010312032 | HOSE ASSY, 3/8X32, 3/8 MPT ENDS                                                                                | 1    |
| 50   | 1-512-010003-03 | NUT, HX 8-32, SLF-LKG W/NYL                                                                                    | 2    |
| 51   | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                    | 11   |
| 52   | 1-512-010005-09 | NUT, HEX, SLFLKG, 1/2-13 GRB                                                                                   | 7    |
| 53   | 1-560-010002-03 | PLUG, PIPE, 3/8NPTF                                                                                            | 1    |
| 54   | 1-560-010002-04 | PLUG, PIPE, 1/2NPT                                                                                             | 1    |
| 55   | 1-654-010047-06 | SCREW, HX CP 1/4-20UNCX1 GR5                                                                                   | 4    |
| 56   | 1-654-010051-06 | SCREW, HEX CAP 3/8-16UNCX1-1/4                                                                                 | 3    |
| 57   | 1-654-010051-09 | SCREW, HEX CAP, 3/8-16UNCX2 GR5                                                                                | 4    |
| 58   | 1-654-010055-03 | SCREW, HEX CAP, 1/2-13UNCX1-1/2                                                                                | 9    |
| 59   | 1-861-010032-02 | WASHER, FL #8 ZP/CD                                                                                            | 2    |
| 60   | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                       | 14   |
| 61   | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                                                       | 10   |
| 62   | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                                                                                      | 4    |
| 63   | 2024-12-12S     | ADAPTER 90 3/4MPT X3/4M JIC                                                                                    | 1    |
| 64   | 202713-16-16S   | ADAPTER-16O-RING-16JIC STR                                                                                     | 1    |
| 65   | 203102-12-12S   | ADAPTER, TEE, #12, SAE37 SWIVL                                                                                 | 1    |
| 66   | 120384          | ADAPTER, #16JICX#12ORB, 90ELB <b>(BEFORE 11/19/2018 - USED WITH 205709 &amp; 205710 TO ATTACH TO ITEM# 16)</b> | 1    |
| 66   | 2062-12-12S     | ADAPTER, 90, #12 O-RINGX#12TUBE <b>(BEFORE 11/19/2018, REQ 4 EACH - AFTER 11/19/2018 REPLACE 120384)</b>       | 5    |
| 67   | 2215-16-20S     | ADAPTER-16JIC-20JIC STR                                                                                        | 1    |
| 68   | 2240-12-12S     | ADAPTER, BLKHD, 3/4NPT-3/4TBE                                                                                  | 1    |
| 69   | 2481X           | BATTERY 12 VOLT                                                                                                | 1    |
| 70   | 3-120-010124    | BATTERY CLAMP BRKT                                                                                             | 1    |
| 71   | 3-155-010012    | CABLE THROTTLE                                                                                                 | 1    |
| 72   | 3-162-010001    | FILLER BREATHER STRAINER ASSY                                                                                  | 1    |
| 73   | 3-182-010028    | CLAMP MUFFLER                                                                                                  | 1    |
| 74   | 3-316-010008    | 3/16 ID FUEL HOSE <b>(BY THE FOOT)</b>                                                                         | 3    |
| 75   | 3/8P COUPL      | BLK PIPE COUPLING                                                                                              | 1    |
| 76   | 40-0667-02      | ELBOW, 45°, ST-37 12-12                                                                                        | 1    |
| 77   | 514-9045-30     | CABLE ASSY BATTERY <b>(POSITIVE)</b>                                                                           | 1    |
| 78   | 514-9073-30     | CABLE ASSY BATTERY <b>(NEGATIVE)</b>                                                                           | 1    |
| 79   | 85G816E         | SCREW, PAN.HD #8-32X1                                                                                          | 2    |
| 80   | 900598-12S      | PLUG, O-RING BOSS #12                                                                                          | 1    |
| 81   | 170114          | OIL FILTER KOHLER CH740 <b>(NOT SHOWN)</b>                                                                     | 1    |
| 82   | 199105          | FUEL FILTER KOHLER 25-050-42-S                                                                                 | 1    |
| 83   | 210377          | FUEL PRESSURE MODULE ECH740 <b>(NOT SHOWN)</b>                                                                 | 1    |
| 84   | 162041          | REPLACEMENT AIR FILTER <b>(NOT SHOWN)</b>                                                                      | 1    |
| 85   | 162042          | REPLACEMENT AIR FOAM <b>(NOT SHOWN)</b>                                                                        | 1    |
| 86   | 218060          | SENSOR O2 KOHLER ECH740-3052 <b>(NOT SHOWN)</b>                                                                | 1    |
| 87   | 189374          | MUFFLER, KOHLER 25HP EFI, 02 SN                                                                                | 1    |
| 88   | 205709          | HOSE ASSY 3/4 X 60 JIC #12-#16 <b>(BEFORE 11/19/2018)</b>                                                      | 1    |



## Engine Assembly, Kohler 25HP EFI, Gasoline, 15 Gallon (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                                                 | QTY. |
|------|-----------------|-------------------------------------------------------------------------------------------------------------|------|
| 88   | 205710          | ADAPTER, 37-37 JIC, 90, 16S <b>(BEFORE 11/19/2018)</b>                                                      | 1    |
| 88   | 1-397-010304060 | HOSE ASSY,3/4X60,SAE37,STR-ST<br><b>(AFTER 11/19/2018 - REPLACED 205709 &amp; 205710)</b>                   | 1    |
| 89   | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                                                   | 2    |
| 90   | 105479          | COUPLER FLAT FACE MALE NOSE <b>(PARTS - SEE PAGE 10-17)</b><br><b>(BEFORE 03/01/2022 - SILVER BODY)</b>     | 1    |
| 90   | 239677          | COUPLER FL FACE ISO -12 MALE <b>((PARTS - SEE PAGE 10-17)</b><br><b>(AFTER 03/01/2022 - BLACK BODY)</b>     | 1    |
| 91   | 105480          | COUPLER FLAT FACE FEMALE BODY <b>(PARTS - SEE PAGE 10-17)</b><br><b>(BEFORE 03/01/2022)</b>                 | 1    |
| 91   | 239678          | COUPLER FL FACE ISO -12 FEMALE <b>(PARTS - SEE PAGE 10-17)</b><br><b>(AFTER 03/01/2022)</b>                 | 1    |
| 92   | 105481          | COUPLER DUST CAP MALE <b>(BEFORE 03/01/2022)</b>                                                            | 1    |
| 92   | 239679          | DUST CAP -12 ISO MALE COUPLER <b>(AFTER 03/01/2022)</b>                                                     | 1    |
| 93   | 105482          | COUPLER DUST CAP FEMALE <b>(BEFORE 03/01/2022)</b>                                                          | 1    |
| 93   | 239680          | DUST CAP FEMALE COUPLER -12ISO <b>(AFTER 03/01/2022)</b>                                                    | 1    |
| 94   | 205712          | HOSE ASSY 3/4 X 60,#12 SAE 37                                                                               | 1    |
| 95   | 1-512-010004-03 | NUT,HEX,SLFLK 10-24UNC, GRA                                                                                 | 8    |
| 96   | 1-512-010005-09 | NUT,HEX,SLFLKG, 1/2-13 GRB                                                                                  | 2    |
| 97   | 1-654-010055-12 | SCREW,CP,HX .50-13UNCX3.75 GR5                                                                              | 2    |
| 98   | 1-861-010032-18 | WASHER, FLAT 5/8 N ZP/CD                                                                                    | 2    |
| 99   | 110-0116        | SCREW RD HD CAP 10-24X3/4                                                                                   | 8    |
| 100  | 110-0253        | WASHER,FLAT 3/16 STD                                                                                        | 8    |
| 101  | 189372          | WLDMT,HOOD,25HP 15 GAL                                                                                      | 1    |
| 102  | 3-181-010034-3  | CLAMP CONDUIT STEEL 1"                                                                                      | 1    |
| 103  | 3-443-010018    | LATCH,FLEX DRAW,LEVER ASSIST                                                                                | 2    |
| 104  | 232033          | ENGINE PKG GUARD KIT FI <b>(FLYWHEEL GUARD)</b><br><b>(INCLUDES ITEMS 105-108) (ADDED AFTER 09/29/2020)</b> | 1    |
| 105  | 1-512-010005-10 | NUT HEX 1/2-20 SLF-LKG GRB                                                                                  | 2    |
| 106  | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD                                                                                   | 2    |
| 107  | 162248          | SCREW HX CP 1/2-20UNF X 1 GR5                                                                               | 2    |
| 108  | 232034          | ENGINE PKG ADD GUARD                                                                                        | 1    |
| 109  | 1-656-010003051 | SCREW,RH HD MACH 10-24X3/4 <b>(STANDARD APPLICATIONS)</b>                                                   | 6    |
| 110  | 128806          | SCREW 10-24X4 RD HD MACHINEZP <b>(USED WITH SPECIAL MOUNT APPLICATIONS, NOT INCLUDED)</b>                   | 6    |
| 111  | 128809          | FILLER EXTENSION OIL TANKWLDMT <b>(USED WITH SPECIAL MOUNT APPLICATIONS, NOT INCLUDED)</b>                  | 1    |
| 112  | 223220          | GASKET, HYD TANK FILLER <b>(SPECIAL MOUNT APPLICATIONS, REQ 3 EACH, NOT INCLUDED)</b>                       | 2    |



# Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION)

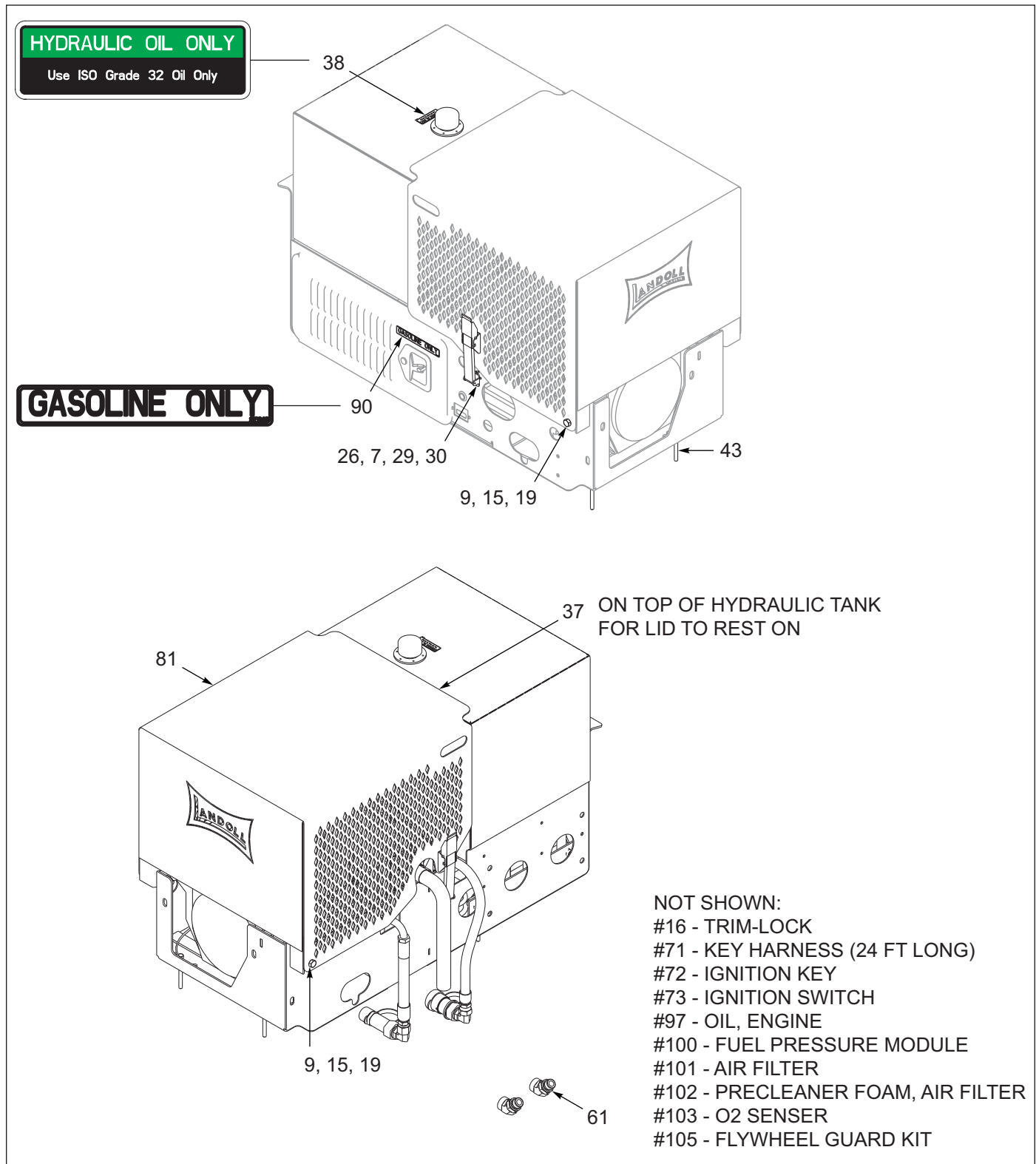
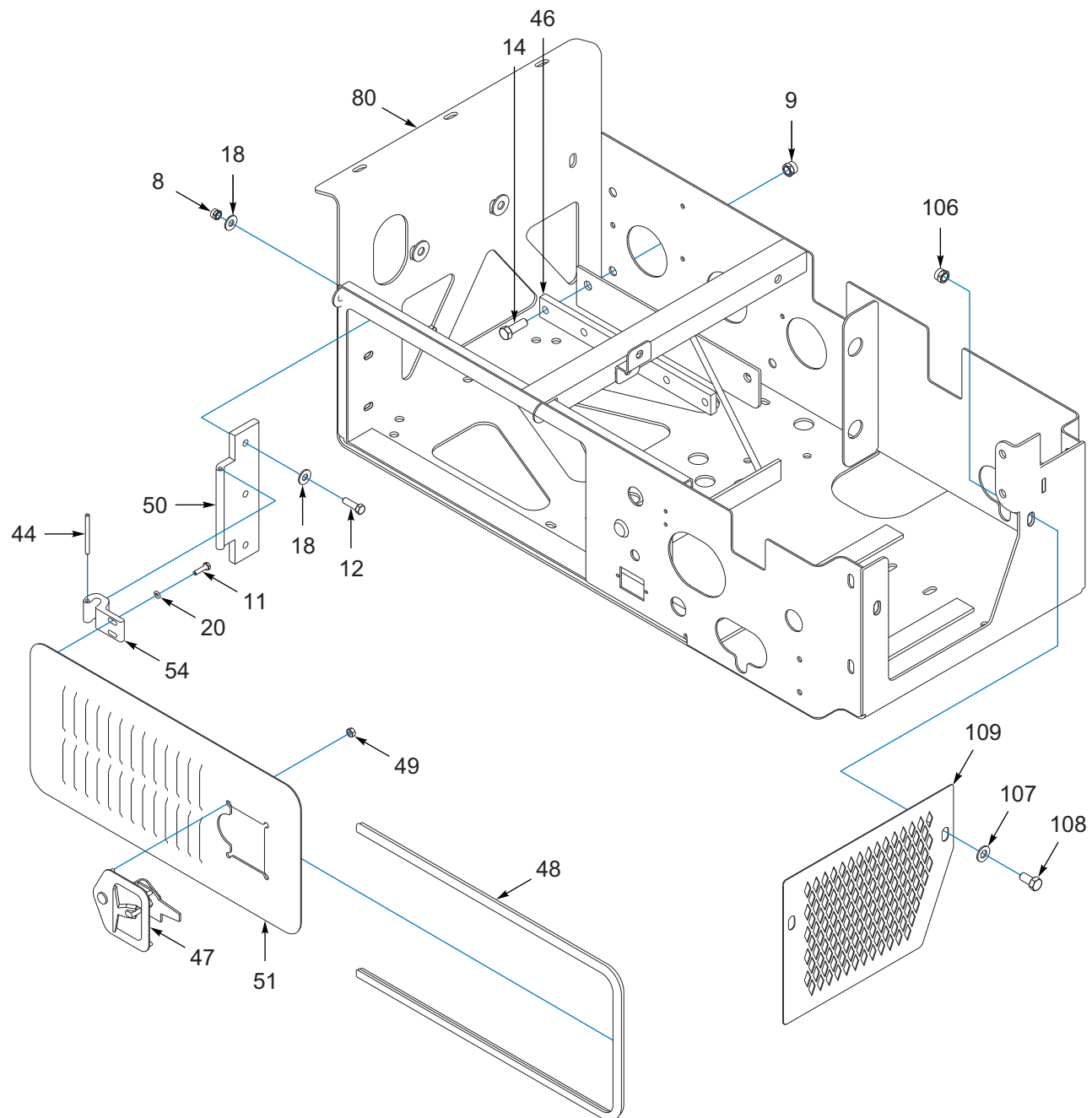


Figure 12-6: Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) (1 of 5)



**Figure 12-7: Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) (2 of 5)**

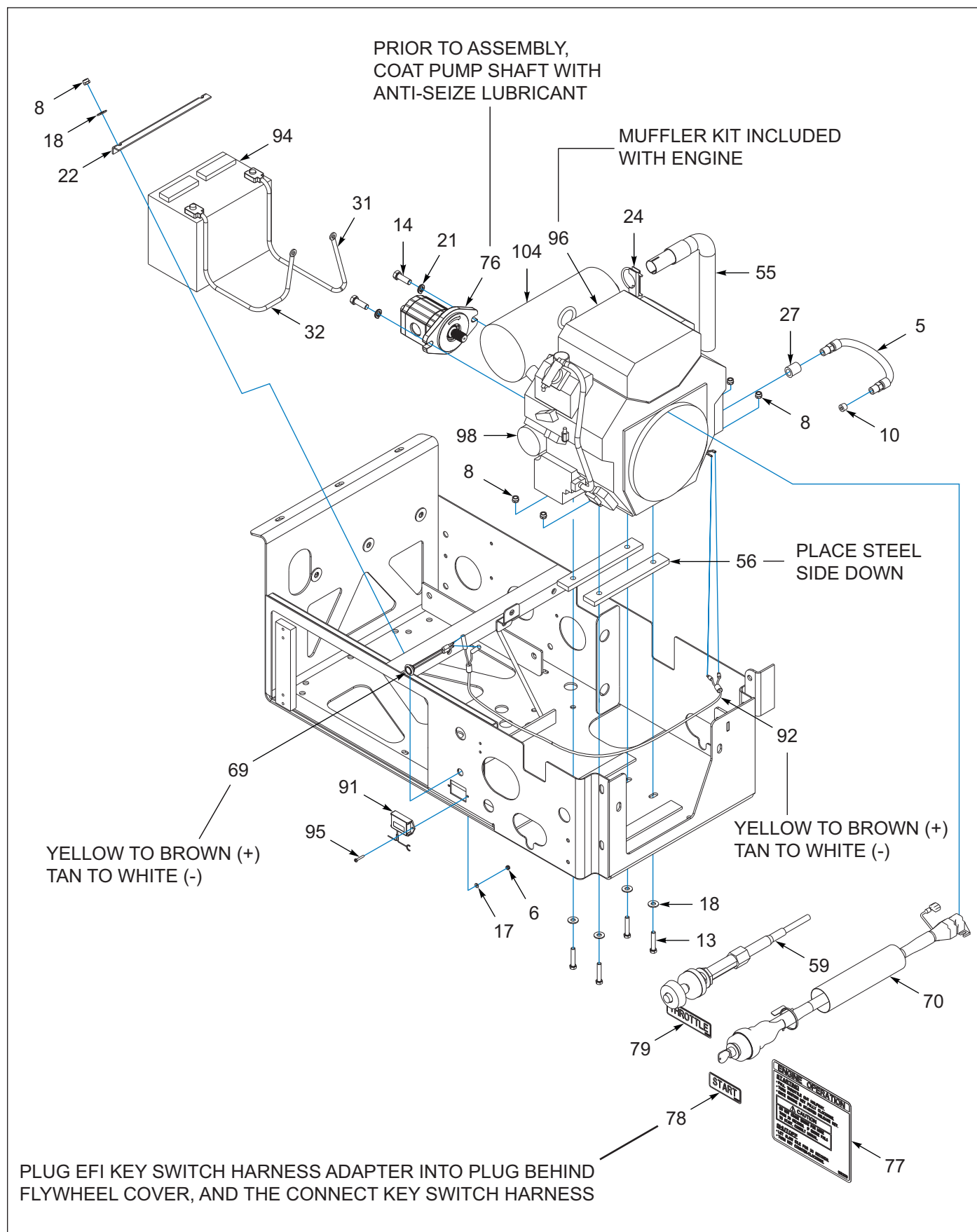
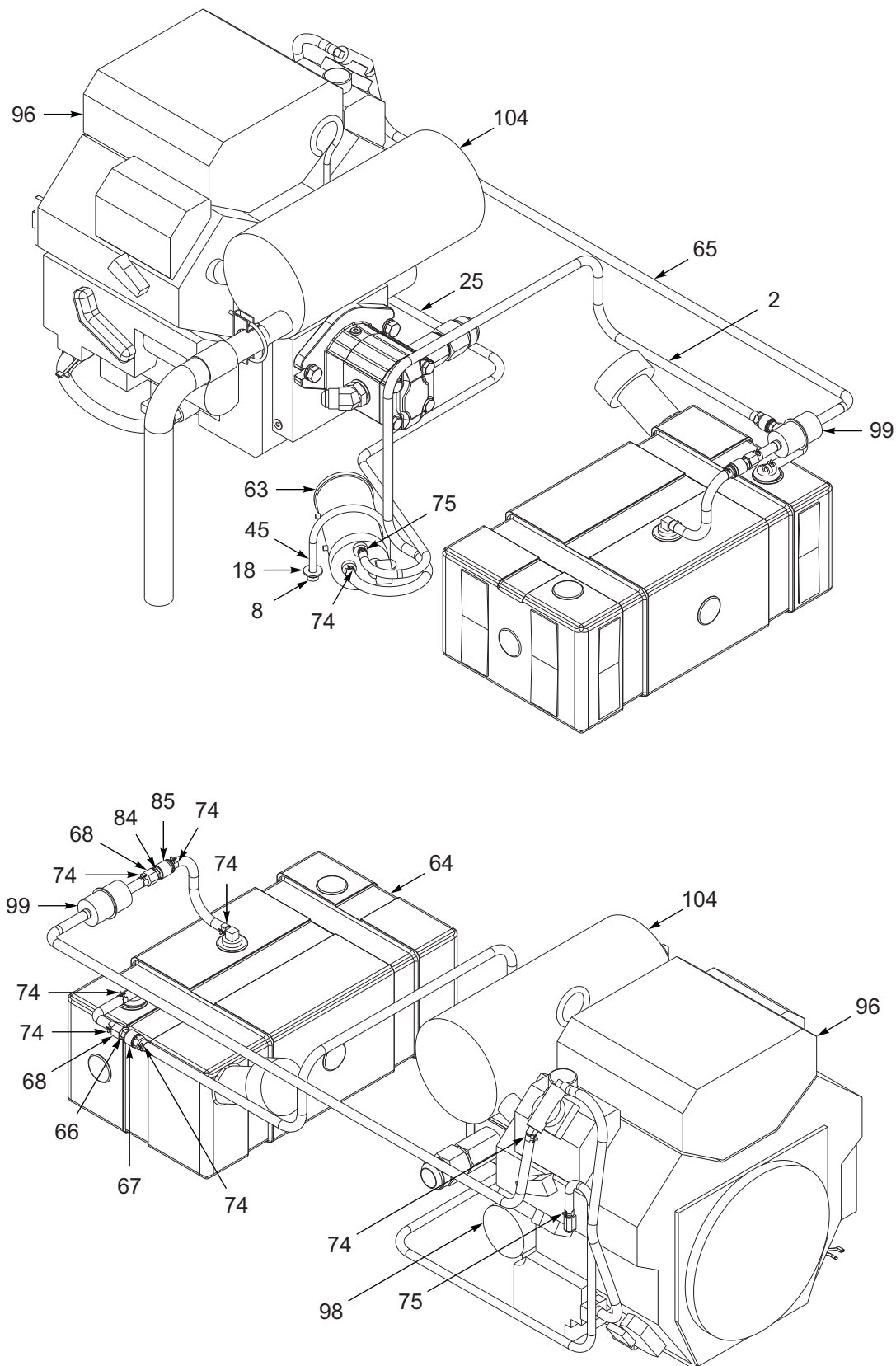


Figure 12-8: Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) (3 of 5)



**Figure 12-9: Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) (4 of 5)**

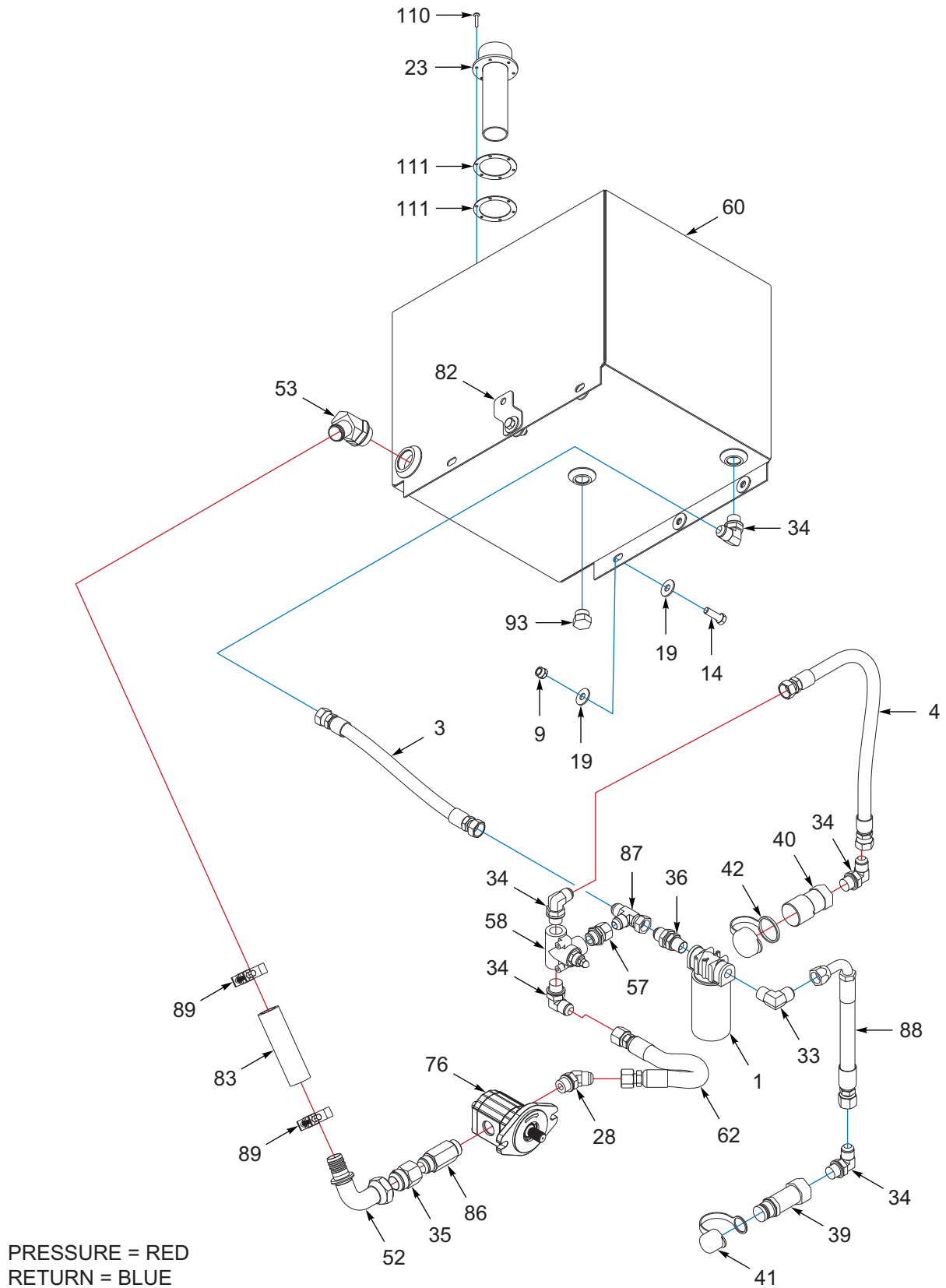


Figure 12-10: Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION) (5 of 5)

## Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                    | QTY |
|------|-----------------|----------------------------------------------------------------------------------------------------------------|-----|
|      | 189360          | ENG PKG 25HP GAS EFI                                                                                           | - - |
| 1    | 1-295-010001    | FILTER, RETURN LINE                                                                                            | 1   |
| 2    | 1-316-010013    | HOSE, 1/4 LOW PRESSURE FUEL <b>(BY THE FOOT)</b>                                                               | 5   |
| 3    | 1-397-010304018 | HOSE ASSY, 3/4X18, SAE37, STR-ST                                                                               | 1   |
| 4    | 205709          | HOSE ASSY 3/4 X 60 JIC #12-#16 <b>(BEFORE 11/19/2018)</b>                                                      | 1   |
| 4    | 205710          | ADAPTER, 37-37 JIC, 90, 16S <b>(BEFORE 11/19/2018)</b>                                                         | 1   |
| 4    | 1-397-010304060 | HOSE ASSY, 3/4X60, SAE37, STR-ST<br><b>(AFTER 11/19/2018 - REPLACED 205709 &amp; 205710)</b>                   | 1   |
| 5    | 1-397-010312032 | HOSE ASSY, 3/8X32, 3/8 MPT ENDS                                                                                | 1   |
| 6    | 1-512-010003-03 | NUT, HX 8-32, SLF-LKG W/NYL <b>(ADDED AFTER 04/30/2019)</b>                                                    | 2   |
| 7    | 1-512-010004-03 | NUT, HEX, SLFLK 10-24UNC, GRA                                                                                  | 8   |
| 8    | 1-512-010005-05 | NUT, HEX, SLFLKG GRB 3/8-16                                                                                    | 15  |
| 9    | 1-512-010005-09 | NUT, HEX, SLFLKG, 1/2-13 GRB                                                                                   | 10  |
| 10   | 1-560-010002-03 | PLUG, PIPE, 3/8NPTF                                                                                            | 1   |
| 11   | 1-654-010047-06 | SCREW, HX CP 1/4-20UNCX1 GR5                                                                                   | 4   |
| 12   | 1-654-010051-06 | SCREW, HEX CAP 3/8-16UNCX1-1/4                                                                                 | 3   |
| 13   | 1-654-010051-09 | SCREW, HEX CAP, 3/8-16UNCX2 GR5                                                                                | 6   |
| 14   | 1-654-010055-03 | SCREW, HEX CAP, 1/2-13UNCX1-1/2                                                                                | 10  |
| 15   | 1-654-010055-13 | SCREW, HEX CAP, 1/2-13UNCX4 GR5                                                                                | 2   |
| 16   | 1-822-010002    | TRIM-LOK 3/16 <b>(NOT SHOWN (BY THE FOOT))</b>                                                                 | 6   |
| 17   | 1-861-010032-02 | WASHER, FL #8 ZP/CD <b>(ADDED AFTER 04/30/2019)</b>                                                            | 2   |
| 18   | 1-861-010032-11 | WASHER, FLAT 3/8 W ZP/CD                                                                                       | 22  |
| 19   | 1-861-010032-15 | WASHER, FLAT 1/2 W ZP/CD                                                                                       | 20  |
| 20   | 1-861-010034-09 | WASHER, LKG HLCL SPR, 1/4                                                                                      | 4   |
| 21   | 1-861-010034-13 | WASHER, LKG HLCL SPR, 1/2                                                                                      | 2   |
| 22   | 3-120-010124    | BATTERY CLAMP BRKT                                                                                             | 1   |
| 23   | 3-162-010001    | FILLER BREATHER STRAINER ASSY                                                                                  | 1   |
| 24   | 3-182-010028    | CLAMP MUFFLER                                                                                                  | 1   |
| 25   | 3-316-010008    | 3/16 ID FUEL HOSE <b>(BY THE FOOT)</b>                                                                         | 3   |
| 26   | 3-443-010018    | LATCH, FLEX DRAW, LEVER ASSIST                                                                                 | 2   |
| 27   | 3/8P COUPL      | BLK PIPE COUPLING                                                                                              | 1   |
| 28   | 40-0667-02      | ELBOW, 45°, ST-37 12-12                                                                                        | 1   |
| 29   | 110-0116        | SCREW RD HD CAP 10-24X3/4                                                                                      | 8   |
| 30   | 110-0253        | WASHER, FLAT 3/16 STD                                                                                          | 8   |
| 31   | 514-9045-30     | CABLE ASSY BATTERY <b>(POSITIVE)</b>                                                                           | 1   |
| 32   | 514-9073-30     | CABLE ASSY BATTERY <b>(NEGATIVE)</b>                                                                           | 1   |
| 33   | 2024-12-12S     | ADAPTER 90 3/4MPT X3/4M JIC                                                                                    | 1   |
| 34   | 120384          | ADAPTER, #16JICX#12ORB, 90ELB <b>(BEFORE 11/19/2018 - USED WITH 205709 &amp; 205710 TO ATTACH TO ITEM# 58)</b> | 1   |
| 34   | 2062-12-12S     | ADAPTER, 90, #12 O-RINGX#12TUBE <b>(BEFORE 11/19/2018, 4 EACH - AFTER 11/19/2018 REPLACE 120384)</b>           | 5   |
| 35   | 2215-16-20S     | ADAPTER-16JIC-20JIC STR                                                                                        | 1   |
| 36   | 2240-12-12S     | ADAPTER, BLKHD, 3/4NPT-3/4TBE                                                                                  | 1   |
| 37   | 10030           | SEAL, BAR STOCK-NEOPRENE SPNG <b>(BY THE INCH)</b>                                                             | 24  |
| 38   | 10109           | DECAL, HYDRAULIC FLUID ONLY <b>(ADDED AFTER 11/19/2018)</b>                                                    | 1   |
| 39   | 105479          | COUPLER FLAT FACE MALE NOSE <b>(PARTS - SEE PAGE 10-17) (BEFORE 03/01/2022 - SILVER BODY)</b>                  | 1   |
| 39   | 239677          | COUPLER FL FACE ISO -12 MALE <b>(PARTS - SEE PAGE 10-17) (AFTER 03/01/2022 - BLACK BODY)</b>                   | 1   |

## Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION)

| ITEM | PART NUMBER  | DESCRIPTION                                                                                                                | QTY |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------|-----|
| 40   | 105480       | COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 10-17) (BEFORE 03/01/2022)                                                 | 1   |
| 40   | 239678       | COUPLER FL FACE ISO -12 FEMALE (PARTS - SEE PAGE 10-17) (AFTER 03/01/2022)                                                 | 1   |
| 41   | 105481       | COUPLER DUST CAP MALE (BEFORE 03/01/2022)                                                                                  | 1   |
| 41   | 239679       | DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)                                                                           | 1   |
| 42   | 105482       | COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)                                                                                | 1   |
| 42   | 239680       | DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)                                                                          | 1   |
| 43   | 108295       | SCREW,HX CP 3/8-16UNCX4 GR5                                                                                                | 2   |
| 44   | 108601       | PIN, DOOR HINGE                                                                                                            | 2   |
| 45   | 110578       | U-BOLT, 3/8-16 x 3-1/8 x 4-1/8                                                                                             | 1   |
| 46   | 113856       | MOUNT,ENG ISOLATOR,KOHLERCH25                                                                                              | 1   |
| 47   | 114814       | LATCH FOLDING T LOCKABLE                                                                                                   | 1   |
| 48   | 114815       | SEAL, SPONGE RUBBER TRIM (BY THE FOOT)                                                                                     | 5   |
| 49   | 115877       | NUT HVY HEX 1/4-20 GR5                                                                                                     | 4   |
| 50   | 116326       | HINGE,BASE MNT, COM ENG PKG                                                                                                | 1   |
| 51   | 116328       | MOUNT,DOOR WLDMT,COM ENG PKG                                                                                               | 1   |
| 52   | 116330       | FITTING 1.25F 37-1.25 BARB 90                                                                                              | 1   |
| 53   | 117873       | FITTING,1.63-12 SAE-1 25H/B45                                                                                              | 1   |
| 54   | 119206       | HINGE, DOOR ENG DRV, 25HP                                                                                                  | 2   |
| 55   | 119445       | EXHAUST EXT WLDMT 25HP E/P                                                                                                 | 1   |
| 56   | 120659       | ISOLATOR, KOHLER 25HP MOUNT                                                                                                | 2   |
| 57   | 120660       | ADAPTER #12-O/RFEM-12#FL M                                                                                                 | 1   |
| 58   | 120661       | VALVE,HYD PRES,#12SAE,2500P                                                                                                | 1   |
| 59   | 128774       | CABLE, THROTTLE 40'                                                                                                        | 1   |
| 60   | 129264       | HYD TANK WLDMT, 30G E/P                                                                                                    | 1   |
| 61   | 138209       | ADAPTER HYD 45#12 MALE-FEMORB                                                                                              | 2   |
| 62   | 143850       | HOSE ASSY 3/4X35OAL #12F JIC                                                                                               | 1   |
| 63   | 166766       | CARBON CANISTER,FUEL TANK,GAS                                                                                              | 1   |
| 64   | 169531       | TANK,FUEL PLSTC,6 GAL,LOW PERM                                                                                             | 1   |
| 65   | 169532       | HOSE, FUEL,1/4 LOW PERM, CARB (BY THE FOOT)                                                                                | 5   |
| 66   | 170109       | FITTING,1/4MPT TO MALE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 84, 202225)            | --  |
| 67   | 170110       | FITTING,5/16BARB TO FE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 85, 202226)            | --  |
| 68   | 173860       | FITTING,1/4 HOSE BARBX1/4 FNPT                                                                                             | 2   |
| 69   | 175591       | LIGHT YEL LED .75 CL.MK GROTE (ADDED AFTER 02/24/2020)                                                                     | 1   |
| 70   | 178428       | SWITCH/HARNESS ASSY KOHLER UD (70A - 24 FEET LONG, STANDARD WITH ENGINE PACKAGE) (INCLUDES ITEMS 71-73)                    | 1   |
| 70   | 178431       | SWITCH/HARNESS ASSY KOHLER (70B - 40 FEET LONG, USED WITH SPECIAL MOUNT APPLICATIONS, NOT INCLUDED) (INCLUDES ITEMS 72-73) | 1   |
| 71   | 178425       | HARNESS ASSY KOHLER ENG HARNESS ASSY KOHLER ENG (24 FEET LONG, INCLUDED WITH ITEM 70A, NOT SHOWN)                          | 1   |
| 72   | 228958       | IGNITION KEYS (1 PAIR) INDAK (NOT SHOWN)                                                                                   | 1   |
| 73   | 3-765-010050 | SWITCH,ENG IGN,KOHLER MH22 (2509904) (NOT SHOWN)                                                                           | 1   |
| 74   | 178638       | SPRING CLAMP, 1/2"OD FUEL HOSE                                                                                             | 8   |



## Engine Assembly, Kohler 25HP EFI, Gasoline, 30 Gallon (OPTION)

| ITEM | PART NUMBER     | DESCRIPTION                                                                                                                       | QTY |
|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| 75   | 179090          | SPRING CLAMP,7/16"OD FUEL HOSE                                                                                                    | 2   |
| 76   | 186811          | PUMP HYDRAULIC GEAR 0.77CID                                                                                                       | 1   |
| 77   | 189309          | DECAL,EFI ENG PKG INSTR                                                                                                           | 1   |
| 78   | 189310          | DECAL, START, ENG PKG                                                                                                             | 1   |
| 79   | 189311          | DECAL, THROTTLE, ENG PKG                                                                                                          | 1   |
| 80   | 189361          | WLDMT,ENG PKG MT, 25HP EFI                                                                                                        | 1   |
| 81   | 189364          | WLDMT,HOOD,ENG PKG,25HP EFI                                                                                                       | 1   |
| 82   | 189369          | PLATE,FUEL HOSE CLAMP                                                                                                             | 1   |
| 83   | 193904          | HOSE, 1-1/4 X 7-1/2, SUCTION                                                                                                      | 1   |
| 84   | 170111          | FITTING,1/4MPT TO MALE QD,SUZU <b>(BEFORE 10/01/2016, REQ 1 EACH)</b>                                                             | --  |
| 84   | 202225          | FITTING 1/4 MNPT/MALE QD<br><b>(REPLACES 170111 AFTER 10/01/2016)</b><br><b>(REPLACES 170109, ITEM 66 AFTER 02/01/2022)</b>       | 2   |
| 85   | 170112          | FITTING,5/16BARB TO FE QD,SUZU<br><b>(BEFORE 10/01/2016, REQ 1 EACH)</b>                                                          | --  |
| 85   | 202226          | FITTING5/16 HOSEBARB/FEMALE QD<br><b>(REPLACES 170112 AFTER 10/01/2016)</b><br><b>(REPLACES 170110, ITEM 67 AFTER 02/01/2022)</b> | 2   |
| 86   | 202713-16-16S   | ADAPTER-16O-RING-16JIC STR                                                                                                        | 1   |
| 87   | 203102-12-12S   | ADAPTER,TEE, #12, SAE37 SWIVL                                                                                                     | 1   |
| 88   | 205712          | HOSE ASSY 3/4 X 60,#12 SAE 37                                                                                                     | 1   |
| 89   | 209878          | HOSE CLAMP T-BOLT25/32 X 1-3/4                                                                                                    | 2   |
| 90   | 218046          | DECAL GASOLINE ONLY <b>(ADDED AFTER 11/19/2018)</b>                                                                               | 1   |
| 91   | 220977          | METER HOUR/TACH DIGITAL <b>(ADDED AFTER 04/30/2019)</b>                                                                           | 1   |
| 92   | 223219          | ENG MIL EXT ADAPTER HARNESS <b>(ADDED AFTER 02/24/2020)</b>                                                                       | 1   |
| 93   | 900598-12S      | PLUG, O-RING BOSS #12                                                                                                             | 1   |
| 94   | 2481X           | BATTERY 12 VOLT                                                                                                                   | 1   |
| 95   | 85G816E         | SCREW,PAN.HD #8-32X1 <b>(ADDED AFTER 04/30/2019)</b>                                                                              | 2   |
| 96   | 189308          | ENGINE,KOHLER,25HP,EFI,PUMP <b>(CH740-3052)</b>                                                                                   | 1   |
| 97   | 1410792         | OIL, ENGINE 10W-30 <b>(NOT SHOWN) (BY THE GALLON)</b>                                                                             | .5  |
| 98   | 170114          | OIL FLTR, KOHLER PA-CH740-3153                                                                                                    | 1   |
| 99   | 199105          | FUEL FILTER KOHLER 25-050-42-S                                                                                                    | 1   |
| 100  | 210377          | FUEL PRESSURE MODULE ECH740 <b>(NOT SHOWN)</b>                                                                                    | 1   |
| 101  | 162041          | REPLACEMENT AIR FILTER <b>(NOT SHOWN)</b>                                                                                         | 1   |
| 102  | 162042          | REPLACEMENT AIR FOAM <b>(NOT SHOWN)</b>                                                                                           | 1   |
| 103  | 218060          | SENSOR O2 KOHLER ECH740-3052 <b>(NOT SHOWN)</b>                                                                                   | 1   |
| 104  | 189374          | MUFFLER,KOHLER 25HP EFI, 02 SN                                                                                                    | 1   |
| 105  | 232033          | ENGINE PKG GUARD KIT FI <b>(FLYWHEEL GUARD)</b><br><b>(INCLUDES ITEMS 106-109) (ADDED AFTER 09/29/2020)</b>                       | 1   |
| 106  | 1-512-010005-10 | NUT HEX 1/2-20 SLF-LKG GRB                                                                                                        | 2   |
| 107  | 1-861-010032-14 | WASHER, FLAT 1/2" N ZP/CD                                                                                                         | 2   |
| 108  | 162248          | SCREW HX CP 1/2-20UNF X 1 GR5                                                                                                     | 2   |
| 109  | 232034          | ENGINE PKG ADD GUARD                                                                                                              | 1   |
| 110  | 1-656-010003051 | SCREW,RH HD MACH 10-24X3/4                                                                                                        | 6   |
| 111  | 223220          | GASKET, HYD TANK FILLER                                                                                                           | 2   |



## Engine, Mount, Upper Deck Stand Assembly (OPTION)

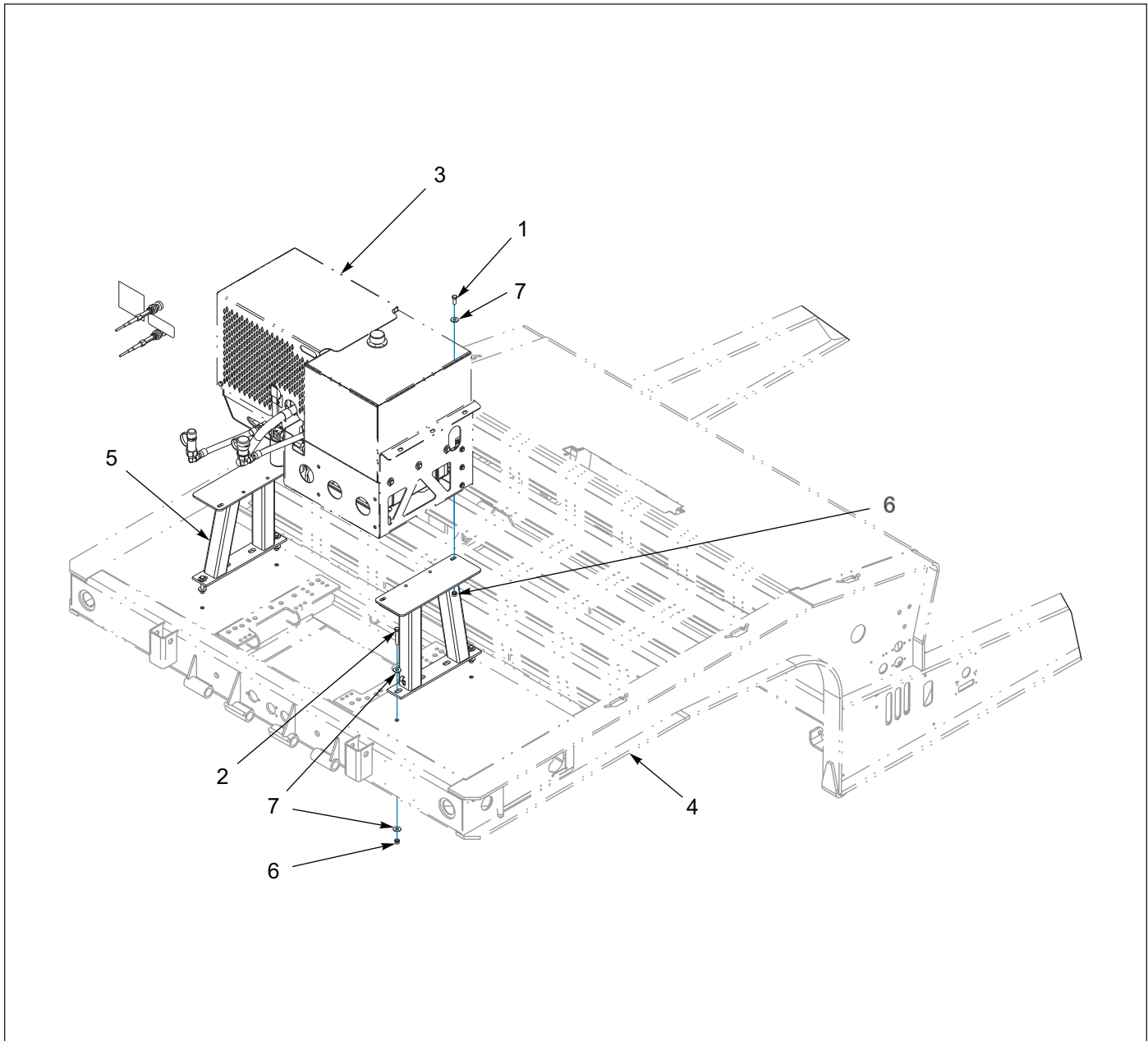


FIGURE 12-11: Engine, Mount, Upper Deck Stand Assembly (OPTION)

## Engine, Mount, Upper Deck Stand Assembly (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                       | QTY. |
|------|-----------------|---------------------------------------------------|------|
|      | 136578          | UPPER DECK STAND INSTALLATION                     | --   |
| 1    | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5            | 4    |
| 2    | 1-654-010055-09 | SCREW, HEX HEAD CAP 1/2-13 X 3 GR5                | 4    |
| 3    | -----           | ENGINE PACKAGE, 25 HP GAS (SEE PAGES 12-1 & 12-9) | --   |
| 4    | -----           | UPPER DECK FRAME WELDMENT                         | --   |
| 5    | 134857          | MOUNT WELDMENT, ENGINE PACKAGE                    | 2    |
| 6    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                          | 8    |
| 7    | 1-861-010032-15 | WASHER, FLAT 1/2W                                 | 16   |

[illegible]

# Glossary

For clarity this glossary of industry standard abbreviations and their definitions are provided. For additional information, see instruction on the inside front cover or the last page of this manual.

## A

|      |             |
|------|-------------|
| A/R  | Air Ride    |
| AG   | Agriculture |
| AL   | Aluminum    |
| APT  | Apitong     |
| ASM  | Assembly    |
| ASSY | Assembly    |
| AX   | Axle        |

## B

|      |                        |
|------|------------------------|
| B/T  | Beavertail             |
| BATT | Battery                |
| BHSC | Button Head Socket Cap |
| BKT  | Bucket                 |
| BLK  | Black                  |

## C

|      |               |
|------|---------------|
| CB   | Carriage Bolt |
| CON  | Construction  |
| CONN | Connector     |
| CRG  | Carriage      |
| CTR  | Center        |
| CTSK | Countersunk   |
| CTWT | Counterweight |
| CVR  | Cover         |
| CYD  | Cylinder      |

## D

|     |          |
|-----|----------|
| DBL | Double   |
| DIA | Diameter |
| DS  | Dropside |

## E

|        |          |
|--------|----------|
| ENCLSD | Enclosed |
|--------|----------|

## F

|           |                            |
|-----------|----------------------------|
| FHCS      | Flanged Head Cap Screw     |
| FHHCS     | Flanged Hex Head Cap Screw |
| FL OR FLG | Flange                     |
| FLT       | Flat                       |
| FT        | Foot                       |

## G

|      |            |
|------|------------|
| G/N  | Gooseneck  |
| GA   | Gauge      |
| GAL  | Gallon     |
| GALV | Galvanized |
| GR   | Grade      |

## H

|       |                             |
|-------|-----------------------------|
| HHCS  | Hex Head Cap Screw          |
| HCS   | High Carbon Steel           |
| HD    | Head                        |
| HD    | Heavy Duty                  |
| HLCL  | Helical                     |
| HCSKT | Hex Socket                  |
| HF    | Hydraulic Flip              |
| HSFC  | Hex Socket Flat Countersunk |
| HYD   | Hydraulic                   |
| HX    | Hexagon                     |

## I

|      |                 |
|------|-----------------|
| ID   | Inside Diameter |
| INST | Installation    |

## J

|     |                          |
|-----|--------------------------|
| JIC | Joint Industrial Council |
|-----|--------------------------|

## L

|             |             |
|-------------|-------------|
| LH          | Left Hand   |
| LKG OR LOCK | Locking     |
| LP          | Low Profile |
| LWR         | Lower       |

---

**M**

---

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

---

**N**

---

**NRW** ..... Narrow  
**NSS** ..... Not Serviced Separately  
**NYL** ..... Nylatron

---

**O**

---

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

---

**P**

---

**PC** ..... Paver/Construction  
**P/O** ..... Pull Out  
**P-STEER** ..... Power Steering  
**POL** ..... Polished  
**PTFE** ..... Polytetrafluoroethylene (Teflon)

---

**Q**

---

**QT** ..... Quart

---

**R**

---

**RD** ..... Round  
**RES** ..... Reservoir  
**REQ** ..... Requires  
**RH** ..... Right Hand  
**RND** ..... Round

---

**S**

---

**S/U** ..... Suspension  
**SER** ..... Series  
**SHCS** ..... Socket Head Cap Screw  
**SHLD** ..... Shield  
**SKT** ..... Socket  
**SLFLKG** ..... Self Locking  
**SOC** ..... Socket

**SPD** ..... Speed  
**SPDT** ..... Single Pole Double Throw  
**SPR** ..... Spring  
**SQ** ..... Square  
**SRTD** ..... Serrated  
**STL** ..... Steel  
**SSCR** ..... Setscrew  
**SST** ..... Stainless Steel  
**STD** ..... Standard  
**SWVL** ..... Swivel

---

**T**

---

**TRL** ..... Trailer  
**TRGH** ..... Trough

---

**U**

---

**UPR** ..... Upper

---

**V**

---

**VDC** ..... Volts Direct Current

---

**W**

---

**WD** ..... Wood  
**WHL** ..... Wheel  
**WLD OR WLDMT** ..... Weldment

---

**X**

---

---

**Y**

---

---

**Z**

---

**ZP** ..... Zink Plate



# Index

## Symbols

#242 LOCKTITE . . . . . 3-12, 3-38, 6-10, 6-12

## Numerics

0001-02 . . . . . 3-3, 3-7  
 0001-04 . . . . . 3-7  
 0001-08 . . . . . 3-3, 3-7  
 0002-07 . . . . . 3-3, 3-7  
 005-074-00 . . . . . 3-14  
 005-079-00 . . . . . 3-14, 3-22  
 005-096-00 . . . . . 3-22  
 005-097-00 . . . . . 3-22  
 006-115-00 . . . . . 3-11, 3-16, 3-18, 3-24  
 007-139-00 . . . . . 3-14, 3-22  
 011300179 . . . . . 10-11  
 014-065-00 . . . . . 3-22  
 014-068-00 . . . . . 3-14, 3-22  
 034-031-00 . . . . . 3-14  
 034-032-00 . . . . . 3-14, 3-22  
 034-047-00 . . . . . 3-22  
 034-048-00 . . . . . 3-14, 3-22  
 034-188-03 . . . . . 3-14  
 034-189-03 . . . . . 3-14  
 034-192-05 . . . . . 3-22  
 034-193-05 . . . . . 3-22  
 040-180-00 . . . . . 3-22  
 046-096-00 . . . . . 3-22  
 046-097-00 . . . . . 3-14, 3-22  
 056-017-00 . . . . . 3-14, 3-22  
 056-018-00 . . . . . 3-14, 3-22  
 061-003-00 . . . . . 3-14, 3-22  
 069-078-00 . . . . . 3-14, 3-22  
 071-122-00 . . . . . 3-22  
 071900195 . . . . . 10-11

0741-01 . . . . . 3-3, 3-7  
 081900277 . . . . . 10-11  
 100062 . . . . . 11-6  
 100063 . . . . . 10-6, 10-8  
 100064 . . . . . 10-6  
 10030 . . . . . 12-14  
 100351 . . . . . 11-6  
 100402 . . . . . 3-40  
 100600 . . . . . 11-12, 11-16  
 1-007-010006 . . . . . 10-20, 10-22  
 10078 . . . . . 11-12, 11-15  
 101003 . . . . . 7-6  
 10109 . . . . . 12-6, 12-14  
 101162 . . . . . 3-16, 3-24  
 101528 . . . . . 9-2, 9-4  
 101847 . . . . . 3-14, 3-22  
 101848 . . . . . 7-7  
 101849 . . . . . 3-22, 7-7  
 101855 . . . . . 1-4  
 102186 . . . . . 11-8  
 102361 . . . . . 3-27  
 102363 . . . . . 3-3, 3-7, 3-27  
 102364 . . . . . 3-27  
 102732 . . . . . 7-10, 7-12, 7-13  
 103055 . . . . . 3-38  
 103056 . . . . . 3-38  
 103103-002 . . . . . 3-11, 3-16, 3-18, 3-24  
 103698 . . . . . 7-4  
 103699 . . . . . 7-4, 7-6  
 103743 . . . . . 10-10  
 103805 . . . . . 3-14, 3-22  
 103861 . . . . . 7-7  
 104034 . . . . . 3-38, 9-2, 9-4  
 104238 . . . . . 5-3, 5-4, 5-5  
 104243 . . . . . 5-6

|                   |                                        |              |            |
|-------------------|----------------------------------------|--------------|------------|
| 1046 .....        | 11-18                                  | 110975 ..... | 3-24       |
| 105106 .....      | 3-11, 3-16, 3-18, 3-24                 | 110976 ..... | 3-24       |
| 105107 .....      | 3-11, 3-16, 3-24                       | 110990 ..... | 3-3, 3-7   |
| 105408 .....      | 3-27                                   | 110991 ..... | 3-3, 3-7   |
| 105479 .....      | 10-1, 10-17, 10-20, 10-22, 12-8, 12-14 | 111008 ..... | 3-27       |
| 105480 .....      | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 111010 ..... | 3-27       |
| 105481 .....      | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 111011 ..... | 3-27       |
| 105482 .....      | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 111012 ..... | 3-27       |
| 105483 .....      | 10-1                                   | 111013 ..... | 3-27       |
| 105822 .....      | 1-4, 10-17                             | 111014 ..... | 3-27       |
| 105902 .....      | 10-17                                  | 111015 ..... | 3-27       |
| 106-0006 .....    | 7-20                                   | 111016 ..... | 3-27       |
| 106759 .....      | 10-20, 10-22                           | 111017 ..... | 3-27, 3-34 |
| 106760 .....      | 10-20, 10-22                           | 111018 ..... | 3-27       |
| 107-0002 .....    | 6-12                                   | 111021 ..... | 7-13       |
| 107-0975 .....    | 6-10, 6-12                             | 111022 ..... | 3-27       |
| 107486 .....      | 10-10                                  | 111023 ..... | 3-27       |
| 107498 .....      | 10-20, 10-22                           | 111089 ..... | 10-17      |
| 107499 .....      | 10-20, 10-22                           | 111090 ..... | 10-17      |
| 107500 .....      | 10-20, 10-22                           | 11117 .....  | 11-11      |
| 107513 .....      | 10-20, 10-22                           | 11128 .....  | 11-11      |
| 108295 .....      | 12-15                                  | 11129 .....  | 11-11      |
| 108417 .....      | 8-2                                    | 11130 .....  | 11-11      |
| 108601 .....      | 12-6, 12-15                            | 111301 ..... | 10-4       |
| 108787 .....      | 8-4                                    | 11133 .....  | 11-11      |
| 108801 .....      | 10-1                                   | 111396 ..... | 11-6       |
| 108802 .....      | 10-1                                   | 111416 ..... | 3-40       |
| 109161 .....      | 5-4, 5-5                               | 111417 ..... | 3-40       |
| 109533 .....      | 3-27                                   | 11142 .....  | 11-11      |
| 109709 .....      | 5-2, 5-3, 5-5, 5-8                     | 11144 .....  | 11-11      |
| 109710 .....      | 5-2, 5-3                               | 111652 ..... | 3-40       |
| 1-1/4ST ELL ..... | 10-20, 10-22                           | 111695 ..... | 5-4, 5-5   |
| 110-0116 .....    | 12-8, 12-14                            | 111859 ..... | 5-4, 5-5   |
| 110-0253 .....    | 12-8, 12-14                            | 112047 ..... | 3-40       |
| 110-3494 .....    | 11-2                                   | 11240 .....  | 11-12      |
| 110449 .....      | 11-12                                  | 112492 ..... | 3-16       |
| 110452 .....      | 11-12, 11-16                           | 112573 ..... | 5-3        |
| 110578 .....      | 12-6, 12-15                            | 112678 ..... | 5-6        |

---

|              |                    |                       |                         |
|--------------|--------------------|-----------------------|-------------------------|
| 112679 ..... | 5-6                | 114814 .....          | 6-10, 6-12, 12-6, 12-15 |
| 112986 ..... | 4-4                | 114815 .....          | 6-10, 6-12, 12-6, 12-15 |
| 112987 ..... | 4-4                | 114983 .....          | 5-8                     |
| 11308 .....  | 11-11              | 115629 .....          | 7-16, 7-18              |
| 11309 .....  | 11-15              | 115726 .....          | 3-3, 3-7                |
| 11310 .....  | 11-15              | 115728 .....          | 3-3, 3-7                |
| 113109 ..... | 3-24               | 115732 .....          | 3-3                     |
| 113536 ..... | 3-16, 3-24         | 115738 .....          | 3-3, 3-7                |
| 11368 .....  | 11-11              | 115843 .....          | 6-10, 6-12              |
| 113819 ..... | 3-14, 3-22         | 115851 .....          | 11-12, 11-16            |
| 113856 ..... | 12-6, 12-15        | 115877 .....          | 6-10, 6-12, 12-6, 12-15 |
| 113883 ..... | 5-2, 5-3, 5-4, 5-5 | 1-161-010033-04 ..... | 10-10                   |
| 113887 ..... | 5-5                | 116326 .....          | 12-6, 12-15             |
| 113888 ..... | 5-4, 5-5           | 116328 .....          | 12-6, 12-15             |
| 11398 .....  | 11-15              | 116330 .....          | 12-6, 12-15             |
| 11411 .....  | 11-15              | 116623 .....          | 6-10                    |
| 11419 .....  | 11-14              | 116624 .....          | 6-10                    |
| 11420 .....  | 11-14              | 116628 .....          | 6-10                    |
| 11421 .....  | 11-14              | 117304 .....          | 7-6                     |
| 11425 .....  | 11-14              | 1-174-010035036 ..... | 6-12                    |
| 11426 .....  | 11-15              | 117559 .....          | 5-2                     |
| 11429 .....  | 11-15              | 117860 .....          | 6-10, 6-12              |
| 11430 .....  | 11-15              | 117873 .....          | 12-6, 12-15             |
| 11431 .....  | 11-15              | 11791 .....           | 11-15                   |
| 11434 .....  | 11-14              | 118-2659-9 .....      | 7-4, 7-6                |
| 11440 .....  | 11-14              | 11837 .....           | 11-11                   |
| 11441 .....  | 11-14              | 119206 .....          | 12-6, 12-15             |
| 11446 .....  | 11-15              | 119445 .....          | 12-6, 12-15             |
| 11449 .....  | 11-14              | 119580 .....          | 3-38                    |
| 114529 ..... | 5-8                | 120384 .....          | 12-7, 12-14             |
| 114584 ..... | 7-6, 7-7           | 120659 .....          | 12-6, 12-15             |
| 114585 ..... | 7-4, 7-7           | 120660 .....          | 12-6, 12-15             |
| 114586 ..... | 7-7                | 120661 .....          | 12-6, 12-15             |
| 114588 ..... | 7-7                | 120662 .....          | 12-6                    |
| 114589 ..... | 7-7                | 12073 .....           | 11-15                   |
| 114619 ..... | 3-16               | 12075 .....           | 11-12                   |
| 114807 ..... | 6-10               | 121369 .....          | 3-38                    |
| 114808 ..... | 6-10               | 12146 .....           | 11-15                   |

---



|                    |              |                       |                           |
|--------------------|--------------|-----------------------|---------------------------|
| 12-16 070120 ..... | 10-20        | 129240 .....          | 6-6                       |
| 12-16 070120 ..... | 10-22        | 129250 .....          | 6-6                       |
| 12420301-017 ..... | 1-4          | 129264 .....          | 12-15                     |
| 124549 .....       | 11-14        | 1-295-010001 .....    | 10-20, 10-22, 12-7, 12-14 |
| 12465 .....        | 11-15        | 1-295-010002 .....    | 10-20                     |
| 125130 .....       | 10-20, 10-22 | 129572 .....          | 4-4                       |
| 125565 .....       | 10-12        | 129573 .....          | 4-4                       |
| 125684 .....       | 11-16        | 1-297-010007-12 ..... | 7-2, 7-4, 7-6             |
| 126292 .....       | 3-22         | 1-297-010007-14 ..... | 7-2                       |
| 126858 .....       | 11-2, 11-4   | 1-297-010007-15 ..... | 7-2, 7-6                  |
| 126888 .....       | 6-2          | 1-297-010007-16 ..... | 7-2, 7-6                  |
| 126889 .....       | 6-2          | 1-297-010008-05 ..... | 7-16, 7-18                |
| 126900 .....       | 3-27         | 1-297-010008-07 ..... | 7-10, 7-12, 7-16, 7-18    |
| 126973 .....       | 11-2         | 1-297-010008-18 ..... | 7-2, 7-6, 7-12            |
| 127598 .....       | 11-2         | 1-297-010008-20 ..... | 7-4                       |
| 12767 .....        | 11-15        | 1-297-010008-23 ..... | 7-4                       |
| 127708 .....       | 3-34         | 1-297-010008-24 ..... | 7-4, 7-6                  |
| 127777 .....       | 3-14         | 1-297-010008-26 ..... | 7-6                       |
| 12783 .....        | 11-15        | 1-297-010010-01 ..... | 7-10, 7-18                |
| 128028 .....       | 10-6         | 1-297-010010-03 ..... | 7-12                      |
| 12817 .....        | 11-11        | 1-297-010010-04 ..... | 7-12                      |
| 128480 .....       | 6-1, 6-2     | 1-297-010013-12 ..... | 7-2                       |
| 128500 .....       | 6-4, 6-5     | 1-297-010017-03 ..... | 7-4, 7-6                  |
| 128713 .....       | 11-2         | 1-297-010022-03 ..... | 7-2                       |
| 128774 .....       | 12-15        | 1-298-010001-1 .....  | 2-8, 10-9, 10-10, 11-2    |
| 128801 .....       | 11-2         | 129938 .....          | 6-3                       |
| 128802 .....       | 11-2         | 130116 .....          | 8-2                       |
| 128803 .....       | 11-2         | 130127 .....          | 11-2                      |
| 128806 .....       | 12-8         | 13028 .....           | 11-12, 11-15              |
| 128809 .....       | 12-8         | 130346 .....          | 11-4                      |
| 129005 .....       | 3-27         | 130347 .....          | 11-4                      |
| 129006 .....       | 3-27         | 130350 .....          | 11-4                      |
| 129198 .....       | 5-8          | 131256 .....          | 11-2                      |
| 129203 .....       | 11-2         | 1-316-010013 .....    | 12-7, 12-14               |
| 129209 .....       | 6-5          | 133777 .....          | 3-38                      |
| 129214 .....       | 11-2         | 13424 .....           | 11-12, 11-16              |
| 129215 .....       | 11-2         | 13468 .....           | 11-12                     |
| 129217 .....       | 11-2         | 134757 .....          | 3-40                      |

---

|                       |             |                       |                            |
|-----------------------|-------------|-----------------------|----------------------------|
| 134857 .....          | 12-17       | 1-397-010301025 ..... | 10-4                       |
| 135316 .....          | 6-1         | 1-397-010301028 ..... | 10-6                       |
| 135501 .....          | 3-7         | 1-397-010301039 ..... | 10-10                      |
| 135503 .....          | 3-7         | 1-397-010301042 ..... | 10-4, 10-10                |
| 136470 .....          | 5-3, 5-4    | 1-397-010301100 ..... | 10-20, 10-22               |
| 136471 .....          | 5-4         | 1-397-010301130 ..... | 10-6, 10-8                 |
| 136490 .....          | 5-6         | 1-397-010301238 ..... | 10-4, 10-8                 |
| 136491 .....          | 5-6         | 1-397-010301244 ..... | 10-4                       |
| 136578 .....          | 12-17       | 1-397-010302042 ..... | 10-6                       |
| 13680 .....           | 11-12       | 1-397-010302070 ..... | 10-10                      |
| 137024 .....          | 6-2         | 1-397-010302112 ..... | 10-6                       |
| 137108 .....          | 3-24        | 1-397-010302172 ..... | 11-6                       |
| 137162 .....          | 3-3         | 1-397-010302240 ..... | 11-6                       |
| 137163 .....          | 3-3         | 1-397-010304018 ..... | 12-7, 12-14                |
| 137164 .....          | 3-3         | 1-397-010304060 ..... | 12-8, 12-14                |
| 137167 .....          | 3-7         | 1-397-010305254 ..... | 10-6                       |
| 137168 .....          | 3-7         | 1-397-010312032 ..... | 12-7, 12-14                |
| 137169 .....          | 3-3         | 1406044 .....         | 10-4                       |
| 137170 .....          | 3-7         | 1406046 .....         | 10-4, 10-8                 |
| 137171 .....          | 3-7         | 1410792 .....         | 12-7, 12-16                |
| 137935 .....          | 11-2, 11-4  | 141607 .....          | 2-4, 7-2                   |
| 138054 .....          | 3-14        | 141708 .....          | 3-33                       |
| 138090 .....          | 3-22        | 141709 .....          | 3-33                       |
| 138205 .....          | 3-7         | 1422896 .....         | 10-6, 10-8                 |
| 138209 .....          | 12-6, 12-15 | 142545 .....          | 9-2, 9-4                   |
| 13839 .....           | 11-12       | 142547 .....          | 3-16                       |
| 1-384-010038024 ..... | 7-4, 7-6    | 142550 .....          | 3-16                       |
| 1-384-010038038 ..... | 7-6         | 142553 .....          | 9-2, 9-4                   |
| 1-384-010038056 ..... | 7-6         | 143100 .....          | 8-2                        |
| 1-384-010038204 ..... | 7-6         | 143101 .....          | 8-2                        |
| 138719 .....          | 3-14        | 143102 .....          | 8-2                        |
| 139201 .....          | 3-35, 3-36  | 143103 .....          | 7-20, 8-2, 8-4             |
| 139345 .....          | 11-2        | 143114 .....          | 8-2, 8-4                   |
| 139383 .....          | 3-22        | 143123 .....          | 8-2                        |
| 139478 .....          | 11-14       | 143163 .....          | 2-4, 7-2, 10-1, 10-6, 10-8 |
| 139479 .....          | 11-14       | 143267 .....          | 6-2                        |
| 139600 .....          | 3-40        | 143268 .....          | 6-2                        |
| 1-397-010301024 ..... | 10-6        | 143850 .....          | 12-6, 12-15                |

---

|                       |                                                                       |                       |                              |
|-----------------------|-----------------------------------------------------------------------|-----------------------|------------------------------|
| 144411 .....          | 11-6                                                                  | 1-557-010362-54 ..... | 2-8, 10-9, 10-10             |
| 144979 .....          | 3-14                                                                  | 1-557-010362-63 ..... | 4-1                          |
| 145588 .....          | 11-19                                                                 | 155780 .....          | 1-4                          |
| 145589 .....          | 11-19                                                                 | 1-560-010002-02 ..... | 7-4, 7-6                     |
| 147464 .....          | 7-7                                                                   | 1-560-010002-03 ..... | 7-4, 7-6, 12-7, 12-14        |
| 147947 .....          | 5-2                                                                   | 1-560-010002-04 ..... | 7-2, 7-4, 7-6, 10-20, 12-7   |
| 147948 .....          | 5-2                                                                   | 1-560-010002-05 ..... | 7-6, 10-20                   |
| 147954 .....          | 5-2                                                                   | 1-560-010002-07 ..... | 10-20                        |
| 147955 .....          | 5-2                                                                   | 157330 .....          | 10-22                        |
| 150076 .....          | 2-4, 2-5                                                              | 158039 .....          | 2-4, 11-2                    |
| 150093 .....          | 8-2                                                                   | 158040 .....          | 10-8                         |
| 150111 .....          | 8-2                                                                   | 158581 .....          | 10-14                        |
| 150346 .....          | 3-40                                                                  | 159001 .....          | 3-22                         |
| 1-510-010001 .....    | 3-11, 3-38                                                            | 159683 .....          | 5-3                          |
| 1-510-010003-09 ..... | 6-10                                                                  | 159686 .....          | 6-1                          |
| 151117 .....          | 8-2                                                                   | 159687 .....          | 6-3                          |
| 1-512-010003-03 ..... | 12-7, 12-14                                                           | 161888 .....          | 11-2                         |
| 1-512-010004-03 ..... | 6-12, 12-8, 12-14                                                     | 162041 .....          | 12-7, 12-16                  |
| 1-512-010005-01 ..... | 2-5, 7-13, 7-16, 7-18                                                 | 162042 .....          | 12-7, 12-16                  |
| 1-512-010005-03 ..... | 8-2                                                                   | 162248 .....          | 12-8, 12-16                  |
| 1-512-010005-05 ..... | 5-2, 5-3, 5-4, 5-5, 6-10, 6-12, 7-6,<br>7-7, 10-20, 11-8, 12-7, 12-14 | 162403 .....          | 3-34                         |
| 1-512-010005-09 ..... | 4-4, 6-7, 10-9, 10-20, 11-6, 11-8,<br>11-19, 12-7, 12-8, 12-14, 12-17 | 163472 .....          | 11-14                        |
| 1-512-010005-10 ..... | 12-8, 12-16                                                           | 163502 .....          | 5-8                          |
| 1-512-010005-13 ..... | 5-2, 5-3, 5-4, 5-5, 5-6, 10-10                                        | 163540 .....          | 6-12                         |
| 1-512-010005-15 ..... | 2-8, 3-35, 3-36, 11-2                                                 | 163541 .....          | 6-12                         |
| 1-512-010007-03 ..... | 8-4                                                                   | 163544 .....          | 6-12                         |
| 1-512-010007-05 ..... | 3-14, 3-22, 3-38, 7-10, 7-12, 8-4                                     | 163746 .....          | 3-34                         |
| 1-512-010007-09 ..... | 3-27                                                                  | 164052 .....          | 8-2                          |
| 1-512-010007-13 ..... | 11-2                                                                  | 1-647-010004177 ..... | 6-10, 6-12                   |
| 153366 .....          | 3-18                                                                  | 1-647-010004255 ..... | 2-8                          |
| 153402 .....          | 3-11, 3-18                                                            | 1-654-010024055 ..... | 8-2                          |
| 153408 .....          | 3-18                                                                  | 1-654-010032-4 .....  | 3-38                         |
| 153409 .....          | 3-11, 3-18                                                            | 1-654-010047-04 ..... | 7-13                         |
| 153420 .....          | 6-10, 6-12                                                            | 1-654-010047-05 ..... | 2-5                          |
| 1-557-010013 .....    | 6-7                                                                   | 1-654-010047-06 ..... | 7-10, 7-12, 8-2, 12-7, 12-14 |
| 1-557-010014 .....    | 4-1                                                                   | 1-654-010047-07 ..... | 7-16, 7-18                   |
|                       |                                                                       | 1-654-010049-03 ..... | 3-11, 3-16, 3-18, 3-24       |
|                       |                                                                       | 1-654-010049-06 ..... | 8-2                          |

|                 |                                            |                 |                  |
|-----------------|--------------------------------------------|-----------------|------------------|
| 1-654-010051-05 | 3-11, 6-10, 6-12                           | 168617          | 7-20             |
| 1-654-010051-06 | 3-11, 10-20, 11-8, 12-7, 12-14             | 168618          | 7-20             |
| 1-654-010051-07 | 5-4, 5-5, 6-10, 6-12                       | 168648          | 8-2, 8-6         |
| 1-654-010051-08 | 7-6, 7-7                                   | 168974          | 8-6              |
| 1-654-010051-09 | 12-7, 12-14                                | 168975          | 8-6              |
| 1-654-010051-10 | 5-2, 5-3, 5-4, 5-5                         | 168976          | 8-6              |
| 1-654-010051-13 | 3-38                                       | 168979          | 8-6              |
| 1-654-010055-01 | 4-4, 11-2                                  | 168982          | 8-6              |
| 1-654-010055-02 | 6-10, 6-12, 12-17                          | 169365          | 10-1             |
| 1-654-010055-03 | 6-7, 6-10, 10-20, 10-22, 11-6, 12-7, 12-14 | 169531          | 12-6, 12-15      |
| 1-654-010055-04 | 6-12, 10-20, 11-12, 11-16, 11-19           | 169532          | 12-6, 12-15      |
| 1-654-010055-05 | 11-6                                       | 170109          | 12-15            |
| 1-654-010055-09 | 4-4, 12-17                                 | 170110          | 12-15            |
| 1-654-010055-12 | 12-8                                       | 170111          | 12-16            |
| 1-654-010055-13 | 12-14                                      | 170112          | 12-16            |
| 1-654-010055-15 | 4-4                                        | 170114          | 12-7, 12-16      |
| 1-654-010055-16 | 11-8                                       | 170120          | 3-33, 3-34, 3-36 |
| 1-654-010055-17 | 10-9, 11-8                                 | 171210          | 6-4              |
| 1-654-010055-18 | 4-4                                        | 171211          | 6-4              |
| 1-654-010059-03 | 5-2, 5-3, 5-4, 5-5, 5-6, 11-2              | 171220          | 1-4              |
| 1-654-010059-04 | 5-2, 5-3, 5-4, 5-5                         | 171221          | 1-4              |
| 1-654-010059-05 | 5-6                                        | 172883          | 3-36             |
| 1-654-010059-21 | 10-10                                      | 173860          | 12-6, 12-15      |
| 1-654-010061-07 | 2-8                                        | 175583          | 8-6              |
| 1-654-010158-1  | 3-38, 8-4                                  | 175591          | 12-6, 12-15      |
| 1-656-010003051 | 8-4, 12-8, 12-16                           | 178425          | 12-6, 12-15      |
| 165766          | 5-8                                        | 178428          | 12-6, 12-15      |
| 166766          | 12-6, 12-15                                | 178431          | 12-6, 12-15      |
| 167952          | 11-2                                       | 178592          | 7-20             |
| 167955          | 3-3, 3-7                                   | 178638          | 12-6, 12-15      |
| 168193          | 10-22                                      | 178705          | 6-12             |
| 168593          | 7-18, 7-20                                 | 179090          | 12-6, 12-16      |
| 168610          | 7-16, 7-18, 7-20                           | 179103          | 3-33             |
| 168611          | 7-20                                       | 179107          | 3-33             |
| 168613          | 7-20                                       | 179108          | 3-34             |
| 168614          | 7-20                                       | 1-796-010004-02 | 3-38             |
| 168616          | 7-20                                       | 179902          | 8-4              |
|                 |                                            | 179906          | 8-4              |

|              |                  |                 |                                                        |
|--------------|------------------|-----------------|--------------------------------------------------------|
| 179955       | 3-11, 3-16, 3-24 | 1-833-010001    | 7-10, 7-12                                             |
| 18002        | 11-12, 11-15     | 1-833-010002    | 7-2, 7-4, 7-6, 7-12                                    |
| 18009        | 11-11            | 1-833-010003    | 7-2, 7-4, 7-6                                          |
| 18015        | 11-11            | 183413          | 7-20                                                   |
| 18016        | 11-11            | 184138          | 3-38                                                   |
| 18019        | 11-11            | 184212          | 1-4                                                    |
| 18020        | 11-11            | 184221          | 11-6                                                   |
| 18022        | 11-15            | 184222          | 11-6                                                   |
| 180223       | 7-20             | 1-843-010014    | 3-40                                                   |
| 180224       | 7-20             | 185059          | 8-2                                                    |
| 180225       | 7-20             | 185878          | 4-4                                                    |
| 180227       | 7-20             | 185887          | 3-3, 3-7                                               |
| 180228       | 7-20             | 1-861-010032-02 | 12-7, 12-14                                            |
| 180229       | 7-20             | 1-861-010032-03 | 6-12                                                   |
| 18024        | 11-12            | 1-861-010032-07 | 2-5, 3-38, 7-13, 7-16, 7-18, 8-2                       |
| 18026        | 11-11            | 1-861-010032-09 | 8-2                                                    |
| 18027        | 11-11            | 1-861-010032-10 | 7-7, 11-8                                              |
| 18028        | 11-12            | 1-861-010032-11 | 3-38, 5-2, 5-3, 5-4, 5-5, 6-10, 6-12, 7-6, 12-7, 12-14 |
| 18029        | 11-12            | 1-861-010032-12 | 7-6                                                    |
| 18030        | 11-11            | 1-861-010032-14 | 6-7, 11-6, 12-8, 12-16                                 |
| 18032        | 11-11            | 1-861-010032-15 | 4-4, 6-10, 6-12, 11-2, 11-8, 11-19, 12-7, 12-14, 12-17 |
| 18033        | 11-15            | 1-861-010032-18 | 12-8                                                   |
| 18034        | 11-15            | 1-861-010032-19 | 5-2, 5-3, 5-4, 5-5, 5-6, 10-10                         |
| 18035        | 11-14            | 1-861-010032-20 | 3-35, 3-36                                             |
| 18039        | 11-11            | 1-861-010032-21 | 3-33, 3-34, 3-35, 3-36, 11-2                           |
| 18044        | 11-12            | 1-861-010034-07 | 8-4                                                    |
| 18047        | 11-11, 11-15     | 1-861-010034-09 | 3-38, 7-10, 7-12, 8-4, 12-7, 12-14                     |
| 18056        | 11-12            | 1-861-010034-10 | 3-11, 3-16, 3-18, 3-24                                 |
| 180570       | 8-2, 8-4         | 1-861-010034-11 | 3-11                                                   |
| 18077        | 11-11            | 1-861-010034-13 | 3-27, 10-20, 10-22, 11-2, 11-12, 11-16, 12-8, 12-14    |
| 18078        | 11-11            | 1-861-010034-15 | 3-12, 11-2                                             |
| 180839       | 7-20             | 1-861-010034-17 | 3-38                                                   |
| 180840       | 7-20             | 1-861-010059-21 | 10-6, 10-8                                             |
| 180898       | 11-2             | 186621          | 3-7                                                    |
| 181590       | 10-8             | 186622          | 3-7                                                    |
| 181591       | 11-2             | 186811          | 12-6, 12-16                                            |
| 181993       | 6-12             |                 |                                                        |
| 1-822-010002 | 12-14            |                 |                                                        |

---

|                |                |              |                              |
|----------------|----------------|--------------|------------------------------|
| 186875 .....   | 10-14          | 190729 ..... | 6-10, 6-12                   |
| 186882 .....   | 8-2            | 191847 ..... | 10-16                        |
| 186902 .....   | 10-14          | 191848 ..... | 10-16                        |
| 187439 .....   | 10-4           | 191849 ..... | 10-14, 10-16                 |
| 187855 .....   | 8-2            | 191850 ..... | 10-14, 10-16                 |
| 187856 .....   | 8-2            | 192038 ..... | 6-10, 6-12                   |
| 187857 .....   | 8-2            | 193400 ..... | 10-16                        |
| 187858 .....   | 8-2            | 193401 ..... | 10-16                        |
| 187859 .....   | 8-4            | 193402 ..... | 10-16                        |
| 187860 .....   | 8-4            | 193442 ..... | 10-16                        |
| 187863 .....   | 8-2            | 193443 ..... | 10-16                        |
| 187864 .....   | 8-2, 8-4       | 193444 ..... | 10-16                        |
| 187868 .....   | 8-2            | 193445 ..... | 10-16                        |
| 187898 .....   | 6-7            | 193446 ..... | 10-16                        |
| 187899 .....   | 6-7            | 193447 ..... | 10-16                        |
| 187900 .....   | 6-7            | 193904 ..... | 12-6, 12-16                  |
| 189278 .....   | 6-12           | 194407 ..... | 8-2, 8-7                     |
| 189285 .....   | 10-14          | 194439 ..... | 2-4, 10-6, 10-8, 10-14, 11-6 |
| 189292 .....   | 1-4            | 194880 ..... | 5-3, 5-5                     |
| 189308 .....   | 12-6, 12-16    | 194881 ..... | 5-3                          |
| 189309 .....   | 12-6, 12-16    | 196165 ..... | 1-4                          |
| 189310 .....   | 12-6, 12-16    | 196167 ..... | 1-4                          |
| 189311 .....   | 12-6, 12-16    | 196168 ..... | 1-4                          |
| 189314 .....   | 3-3, 3-7, 3-38 | 196169 ..... | 1-4                          |
| 189316 .....   | 3-38           | 196172 ..... | 1-4                          |
| 189360 .....   | 12-14          | 196173 ..... | 1-4                          |
| 189361 .....   | 12-6, 12-16    | 196180 ..... | 1-4                          |
| 189364 .....   | 12-16          | 196182 ..... | 1-4                          |
| 189369 .....   | 12-6, 12-16    | 197318 ..... | 7-20                         |
| 189370 .....   | 12-6           | 197450 ..... | 10-6, 10-8                   |
| 189372 .....   | 12-8           | 197460 ..... | 8-6                          |
| 189374 .....   | 12-7, 12-16    | 197606 ..... | 3-16, 3-24                   |
| 19045 .....    | 11-11, 11-15   | 197613 ..... | 7-16, 7-18, 7-20             |
| 190700ZP ..... | 3-38           | 199105 ..... | 12-7, 12-16                  |
| 190701 .....   | 3-38           | 199802 ..... | 2-4                          |
| 190705ZP ..... | 3-38           | 200430 ..... | 6-5                          |
| 190706 .....   | 3-38           | 200445 ..... | 2-4                          |
| 190728 .....   | 6-10, 6-12     | 200497 ..... | 2-8, 10-4, 10-12             |

---

|                    |                           |                     |                         |
|--------------------|---------------------------|---------------------|-------------------------|
| 200498 .....       | 7-2, 8-2, 10-6            | 202430 .....        | 10-14, 10-16            |
| 200505 .....       | 8-2                       | 202578 .....        | 1-4                     |
| 200508 .....       | 7-2, 10-6                 | 202702-10-8S .....  | 10-14, 11-2, 11-6       |
| 200516 .....       | 10-8                      | 202702-12-12S ..... | 10-14                   |
| 200520 .....       | 10-8                      | 202713-16-16S ..... | 12-7, 12-16             |
| 200522 .....       | 10-8                      | 203003-8-8S .....   | 10-10                   |
| 200525 .....       | 1-4                       | 203005-8-8S .....   | 10-10                   |
| 200846 .....       | 2-4                       | 203102-12-12S ..... | 10-1, 12-7, 12-16       |
| 201030 .....       | 7-16, 7-20                | 2033-8-8S .....     | 10-4                    |
| 201058 .....       | 1-4                       | 204108-001 .....    | 3-14                    |
| 201059 .....       | 1-4                       | 204114 .....        | 7-10                    |
| 201065 .....       | 2-8                       | 204124 .....        | 10-14                   |
| 201067 .....       | 2-8, 10-4                 | 204189 .....        | 10-16                   |
| 201075 .....       | 3-3, 7-4                  | 2047-12-12S .....   | 10-20, 10-22            |
| 201077 .....       | 7-4                       | 205107-001 .....    | 3-14                    |
| 201086 .....       | 3-7                       | 205709 .....        | 12-7, 12-14             |
| 201094 .....       | 3-7                       | 205710 .....        | 12-8, 12-14             |
| 201099 .....       | 3-7, 7-6, 7-12, 9-4       | 205712 .....        | 12-8, 12-16             |
| 201101 .....       | 7-6                       | 205836 .....        | 7-20                    |
| 201103 .....       | 7-6                       | 205837 .....        | 7-20                    |
| 201105 .....       | 7-6                       | 205912 .....        | 6-10, 6-12              |
| 201115 .....       | 3-3, 3-38, 7-4, 8-4, 9-2  | 2061-8-8S .....     | 10-4, 10-10             |
| 201117 .....       | 3-38, 7-4                 | 2062-12-12S .....   | 12-7, 12-14             |
| 20-12 140140 ..... | 10-22                     | 2062-16-8S .....    | 10-20, 10-22            |
| 20125 .....        | 7-20                      | 2062-8-8S .....     | 10-4, 10-6, 10-8, 10-10 |
| 202094 .....       | 9-2, 9-4                  | 2071-12-12S .....   | 10-8                    |
| 202099 .....       | 9-2, 9-4                  | 2071-8-8S .....     | 10-14                   |
| 202103 .....       | 9-2, 9-4                  | 207360 .....        | 5-8                     |
| 202106 .....       | 9-2, 9-4                  | 208006 .....        | 2-4                     |
| 202112 .....       | 9-4                       | 208013 .....        | 2-8                     |
| 202113 .....       | 9-4                       | 208106 .....        | 3-14                    |
| 202118 .....       | 9-2, 9-4                  | 2081-8-6S .....     | 7-2                     |
| 202190 .....       | 10-16                     | 2083-8-4S .....     | 7-10, 7-12, 7-16, 7-18  |
| 202207 .....       | 7-20                      | 2083-8-8S .....     | 7-4                     |
| 202225 .....       | 12-6, 12-16               | 208390 .....        | 10-16                   |
| 202226 .....       | 12-6, 12-16               | 208391 .....        | 10-16                   |
| 2024-12-12S .....  | 10-20, 10-22, 12-7, 12-14 | 208392 .....        | 10-16                   |
| 2024-12-8S .....   | 10-20, 10-22              | 2088-6-6S .....     | 7-2, 7-4, 7-6           |

---

|                  |             |                    |                    |
|------------------|-------------|--------------------|--------------------|
| 2089-6-6S .....  | 7-4, 7-6    | 216579 .....       | 11-4               |
| 209100 .....     | 8-2, 8-7    | 216580 .....       | 11-4               |
| 209101 .....     | 8-7         | 216581 .....       | 11-4, 11-12, 11-15 |
| 209102 .....     | 8-7         | 216582 .....       | 11-4               |
| 209103 .....     | 8-7         | 216583 .....       | 11-4               |
| 209878 .....     | 12-6, 12-16 | 216584 .....       | 11-4               |
| 210292-12S ..... | 10-1        | 216585 .....       | 11-4               |
| 210377 .....     | 12-7, 12-16 | 216586 .....       | 11-4               |
| 212074 .....     | 8-2         | 216587 .....       | 11-4               |
| 212378 .....     | 3-14, 3-16  | 216588 .....       | 11-4               |
| 212418 .....     | 3-22, 3-24  | 216589 .....       | 11-4               |
| 213163 .....     | 6-6         | 216599 .....       | 9-2, 9-4           |
| 213295 .....     | 8-4         | 216600 .....       | 9-2, 9-4           |
| 213296 .....     | 8-2, 8-4    | 216601 .....       | 10-16              |
| 213297 .....     | 8-2         | 216705 .....       | 7-20               |
| 213298 .....     | 8-2, 8-4    | 218023 .....       | 8-7                |
| 213872 .....     | 2-4         | 218046 .....       | 12-6, 12-16        |
| 214102 .....     | 3-14        | 218058 .....       | 11-12              |
| 214104 .....     | 3-14, 3-22  | 218060 .....       | 12-7, 12-16        |
| 216559 .....     | 11-4        | 218068 .....       | 3-30, 3-32         |
| 216560 .....     | 11-4        | 218070 .....       | 3-30, 3-32         |
| 216561 .....     | 11-4        | 218075 .....       | 3-30               |
| 216562 .....     | 11-4        | 218079 .....       | 3-30               |
| 216563 .....     | 11-4        | 2-181-010001 ..... | 3-3, 3-7, 3-38     |
| 216564 .....     | 11-4        | 218106 .....       | 3-11               |
| 216565 .....     | 11-4        | 218141 .....       | 10-12              |
| 216566 .....     | 11-4        | 21925 .....        | 11-11              |
| 216567 .....     | 11-4        | 220000212 .....    | 10-11, 10-12       |
| 216568 .....     | 11-4        | 220673 .....       | 3-11, 3-18         |
| 216569 .....     | 11-4        | 220692 .....       | 8-7                |
| 216570 .....     | 11-4        | 220970 .....       | 11-2               |
| 216571 .....     | 11-4        | 220977 .....       | 12-7, 12-16        |
| 216572 .....     | 11-4        | 2215-16-20S .....  | 12-7, 12-14        |
| 216573 .....     | 11-4        | 221602 .....       | 3-27               |
| 216574 .....     | 11-4        | 2216-12-12S .....  | 10-17              |
| 216575 .....     | 11-4        | 223219 .....       | 12-7, 12-16        |
| 216576 .....     | 11-4        | 223220 .....       | 12-8, 12-16        |
| 216577 .....     | 11-4        | 223230 .....       | 3-35               |

---



|             |             |        |             |
|-------------|-------------|--------|-------------|
| 223231      | 3-35        | 228027 | 3-18        |
| 223232      | 3-35        | 228069 | 7-20        |
| 223247      | 6-12        | 228951 | 3-35        |
| 223301      | 7-16        | 228952 | 3-35, 3-36  |
| 223304      | 7-18        | 228953 | 3-35        |
| 223938      | 3-40        | 228958 | 12-6, 12-15 |
| 223960      | 10-12       | 229494 | 8-7         |
| 223993      | 3-11        | 230611 | 3-30, 3-32  |
| 223994      | 3-11        | 230612 | 3-30, 3-32  |
| 223995      | 3-11        | 230613 | 7-20        |
| 223996      | 3-11        | 230657 | 3-11        |
| 223997      | 3-11        | 230730 | 3-40        |
| 223998      | 3-11        | 23078  | 11-12       |
| 223999      | 3-11        | 23079  | 11-12       |
| 224000      | 3-12        | 23081  | 11-12       |
| 224001      | 3-12        | 23082  | 11-16       |
| 224002      | 3-11, 3-18  | 23083  | 11-12       |
| 224003      | 3-11, 3-18  | 23144  | 11-16       |
| 224005      | 3-12        | 23145  | 11-16       |
| 2240-12-12S | 12-7, 12-14 | 231923 | 3-30, 3-32  |
| 224322      | 3-40        | 231924 | 3-30, 3-32  |
| 225945      | 1-4         | 231925 | 3-30, 3-32  |
| 225955      | 3-30, 3-35  | 231926 | 3-30, 3-32  |
| 225956      | 3-30, 3-32  | 231927 | 3-30, 3-32  |
| 225958      | 3-30, 3-32  | 231928 | 3-30, 3-32  |
| 225960      | 3-30, 3-32  | 231958 | 3-11        |
| 225962      | 3-30        | 232033 | 12-8, 12-16 |
| 225963      | 3-30, 3-32  | 232034 | 12-8, 12-16 |
| 225964      | 3-12        | 232809 | 3-40        |
| 225965      | 3-11        | 232823 | 3-11        |
| 225969      | 3-30, 3-32  | 23303  | 11-11       |
| 225970      | 3-30, 3-32  | 23367  | 11-14       |
| 225977      | 3-11        | 23470  | 11-11       |
| 225978      | 3-11        | 235221 | 3-19        |
| 226048      | 3-32        | 235222 | 3-18        |
| 226049      | 3-32        | 235291 | 8-6         |
| 2263        | 11-6, 11-18 | 235294 | 3-32        |
| 22752       | 11-11       | 236297 | 6-10        |

---

|              |                                        |              |              |
|--------------|----------------------------------------|--------------|--------------|
| 236475 ..... | 3-18                                   | 240587 ..... | 3-11         |
| 236476 ..... | 3-18                                   | 240588 ..... | 3-11         |
| 236485 ..... | 3-36                                   | 242700 ..... | 3-12         |
| 236486 ..... | 3-36                                   | 242701 ..... | 3-12         |
| 236487 ..... | 3-36                                   | 242755 ..... | 3-32, 3-36   |
| 236488 ..... | 3-36                                   | 247943 ..... | 11-12        |
| 236489 ..... | 3-36                                   | 2481X .....  | 12-7, 12-16  |
| 236497 ..... | 3-18                                   | 248309 ..... | 11-15        |
| 236498 ..... | 3-18                                   | 248354 ..... | 11-14        |
| 236499 ..... | 3-18                                   | 248355 ..... | 11-14        |
| 236500 ..... | 3-18                                   | 248356 ..... | 11-14        |
| 236501 ..... | 3-18                                   | 248357 ..... | 11-15        |
| 236503 ..... | 3-19                                   | 248358 ..... | 11-11, 11-15 |
| 236504 ..... | 3-12, 3-19                             | 248359 ..... | 11-15        |
| 236534 ..... | 3-12                                   | 248360 ..... | 11-15        |
| 236535 ..... | 3-12                                   | 248361 ..... | 11-15        |
| 236536 ..... | 3-12                                   | 248363 ..... | 11-15        |
| 236537 ..... | 3-12, 3-19                             | 248364 ..... | 11-15        |
| 236538 ..... | 3-12                                   | 248501 ..... | 11-15        |
| 238554 ..... | 3-18                                   | 248502 ..... | 11-15        |
| 238555 ..... | 3-18                                   | 248503 ..... | 11-15        |
| 238556 ..... | 3-19                                   | 248504 ..... | 11-15        |
| 238557 ..... | 3-19                                   | 248505 ..... | 11-15        |
| 238558 ..... | 3-12                                   | 248506 ..... | 11-12, 11-15 |
| 238559 ..... | 3-12                                   | 248507 ..... | 11-12, 11-15 |
| 238560 ..... | 3-12                                   | 248508 ..... | 11-15        |
| 238562 ..... | 3-12                                   | 248509 ..... | 11-15        |
| 238563 ..... | 3-12                                   | 248510 ..... | 11-15        |
| 238564 ..... | 3-12                                   | 248511 ..... | 11-12, 11-15 |
| 238565 ..... | 3-32                                   | 248512 ..... | 11-15        |
| 238634 ..... | 10-17                                  | 248513 ..... | 11-16        |
| 238642 ..... | 2-4, 7-2, 10-1, 10-6, 10-8             | 248514 ..... | 11-16        |
| 238806 ..... | 7-13                                   | 248516 ..... | 11-16        |
| 239677 ..... | 10-1, 10-17, 10-20, 10-22, 12-8, 12-14 | 248594 ..... | 11-11        |
| 239678 ..... | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 248595 ..... | 11-11        |
| 239679 ..... | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 248596 ..... | 11-11        |
| 239680 ..... | 10-1, 10-17, 10-20, 10-22, 12-8, 12-15 | 248597 ..... | 11-11        |
| 239705 ..... | 10-17                                  | 248598 ..... | 11-11        |

---

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| 248599 .....          | 11-12                    | 3-182-010028 .....    | 12-7, 12-14              |
| 248600 .....          | 11-12                    | 3-242-010099 .....    | 10-10                    |
| 248601 .....          | 11-12                    | 3-242-010102 .....    | 10-9, 10-11              |
| 249506 .....          | 11-12                    | 3-242-010103 .....    | 10-10, 10-11             |
| 249507 .....          | 11-12                    | 3-242-010152-02 ..... | 2-4, 10-6, 10-10         |
| 249508 .....          | 11-12                    | 3-242-010153 .....    | 2-4, 10-6, 10-8, 10-9    |
| 249509 .....          | 11-12                    | 3-316-010008 .....    | 12-7, 12-14              |
| 249510 .....          | 11-11                    | 3-352-010067-2 .....  | 11-19                    |
| 26976 .....           | 11-14                    | 3-368-010252 .....    | 8-2                      |
| 2J084 .....           | 3-30, 3-32               | 3-375-010250 .....    | 2-8                      |
| 3/8P COUPL .....      | 12-7, 12-14              | 3-375-010292 .....    | 2-8                      |
| 3067 .....            | 3-16, 3-24               | 3-375-010349 .....    | 2-8                      |
| 3-076-010005 .....    | 3-3, 3-7, 3-38, 9-2, 9-4 | 3-384-010031 .....    | 7-4                      |
| 3-120-010073 .....    | 10-9                     | 3-399-010001 .....    | 10-20, 10-22             |
| 3-120-010117 .....    | 10-10                    | 3-443-010018 .....    | 12-8, 12-14              |
| 3-120-010124 .....    | 12-7, 12-14              | 346SL .....           | 5-6                      |
| 3-120-010125 .....    | 10-10                    | 3-481-010006 .....    | 11-6, 11-8, 11-12, 11-18 |
| 3-120-010461 .....    | 10-20                    | 3-481-010007 .....    | 11-6, 11-8, 11-16, 11-18 |
| 3-141-010118 .....    | 4-1                      | 3-482-010503 .....    | 10-20                    |
| 3-141-010119 .....    | 4-1                      | 3-485-010001 .....    | 3-3, 3-7, 3-38           |
| 3-141-010120 .....    | 4-4                      | 3-557-010030 .....    | 2-8                      |
| 3-141-010123-1 .....  | 4-1                      | 3-557-010031 .....    | 10-10                    |
| 3-141-010123-2 .....  | 4-1                      | 3-557-010033 .....    | 2-8, 10-9                |
| 3-141-010123-3 .....  | 4-1                      | 3-557-010059 .....    | 2-8                      |
| 3-141-010123-4 .....  | 4-1                      | 3-557-010380 .....    | 4-1                      |
| 3-141-010147 .....    | 4-1                      | 3-561-010001 .....    | 10-20, 10-22             |
| 3-141-010151 .....    | 4-1                      | 3-573-010031 .....    | 3-38                     |
| 3-150-010223 .....    | 10-10                    | 3-573-010038 .....    | 1-4                      |
| 3-155-010012 .....    | 12-7                     | 3-573-010086 .....    | 1-4                      |
| 3-155-010017-4 .....  | 11-6, 11-8               | 3-573-010134 .....    | 1-4                      |
| 3-155-010018-6 .....  | 11-6, 11-8               | 3-573-010210 .....    | 1-4                      |
| 3-162-010001 .....    | 10-20, 12-7, 12-14       | 3-573-010377 .....    | 1-4, 3-38                |
| 3-174-010038 .....    | 6-1, 11-6                | 3-573-010378 .....    | 4-1                      |
| 3-174-010039 .....    | 6-5                      | 3-591-010001 .....    | 10-20, 10-22             |
| 3-174-010039036 ..... | 11-6                     | 3-612-010015-1 .....  | 4-4                      |
| 3-181-010034-1 .....  | 3-28, 3-30, 3-32         | 3-612-010015-2 .....  | 4-4                      |
| 3-181-010034-2 .....  | 3-28, 3-30, 3-32         | 3-612-010015-3 .....  | 4-4                      |
| 3-181-010034-3 .....  | 12-8                     | 3-612-010016 .....    | 4-4                      |

---

|                       |                                |                    |                     |
|-----------------------|--------------------------------|--------------------|---------------------|
| 3-612-010020 .....    | 4-4                            | 43029 .....        | 8-4                 |
| 3-659-010012 .....    | 3-16, 3-24                     | 481-00-225 .....   | 7-13                |
| 3-711-010110 .....    | 11-6                           | 51039-23 .....     | 10-8                |
| 3-720-010010 .....    | 11-8                           | 514-9045-30 .....  | 12-7, 12-14         |
| 3-725-010058 .....    | 5-6                            | 514-9073-30 .....  | 12-7, 12-14         |
| 3-755-010080 .....    | 4-1                            | 55B61 .....        | 7-4, 7-6, 10-1      |
| 3-762-010016 .....    | 3-38                           | 55B61-6 .....      | 10-1                |
| 3-762-010017 .....    | 3-38                           | 55B61-7 .....      | 10-1                |
| 3-765-010050 .....    | 12-6, 12-15                    | 56D4 .....         | 7-4, 7-6            |
| 3-780-010002 .....    | 3-3, 3-7, 7-4, 7-6, 7-10, 7-12 | 61258 .....        | 11-2                |
| 3-786-010043 .....    | 10-20                          | 61333 .....        | 11-12               |
| 3-821-010005 .....    | 3-38                           | 61344 .....        | 11-16               |
| 3-826-010014 .....    | 2-8                            | 622-3511-008 ..... | 3-38                |
| 3-826-010015 .....    | 2-8                            | 63680 .....        | 3-16                |
| 3-829-010337 .....    | 4-4                            | 6828 .....         | 10-20, 10-22        |
| 3-843-010038 .....    | 7-2                            | 758-181 .....      | 7-4, 7-6            |
| 3-870-010097 .....    | 3-40                           | 7HCGHT500 .....    | 6-2, 6-3, 6-5, 11-6 |
| 3-870-010104 .....    | 3-40                           | 805-2 .....        | 7-6                 |
| 3-870-010106 .....    | 3-40                           | 81006 .....        | 11-11               |
| 3-870-010107 .....    | 3-24                           | 81009 .....        | 11-11               |
| 3-870-010110 .....    | 3-40                           | 81025 .....        | 11-11               |
| 3-870-010116 .....    | 3-40                           | 81077 .....        | 11-14               |
| 3-873-010122 .....    | 11-8, 11-11                    | 81078 .....        | 11-14               |
| 3-873-010123 .....    | 11-8, 11-14                    | 81080 .....        | 11-15               |
| 3-873-010124 .....    | 11-8                           | 81081 .....        | 11-15               |
| 3-873-010126-2 .....  | 11-6, 11-8, 11-11              | 81264 .....        | 8-2                 |
| 3-873-010129-2 .....  | 11-6, 11-8, 11-14              | 81530 .....        | 11-11               |
| 3-873-010166-01 ..... | 11-6                           | 85G816E .....      | 12-7, 12-16         |
| 3-873-010166-02 ..... | 11-6                           | 88005 .....        | 11-15               |
| 3-873-010166-03 ..... | 11-6                           | 900-08-139 .....   | 3-27                |
| 3-873-010166-04 ..... | 11-6                           | 900-44-207 .....   | 1-4                 |
| 3F843-010034 .....    | 7-13                           | 900 45 040 .....   | 3-27, 3-33          |
| 40-0667-02 .....      | 12-7, 12-14                    | 900 54 007 .....   | 7-10, 7-12, 7-13    |
| 4009 .....            | 3-11, 3-16, 3-18, 3-24         | 900598-12S .....   | 12-7, 12-16         |
| 403149 .....          | 3-14                           | 905-54-107 .....   | 7-10, 7-12, 7-13    |
| 405129 .....          | 3-14, 3-22                     | 905-57-129 .....   | 3-27                |
| 405999-001 .....      | 3-14, 3-22                     | 934 00 149 .....   | 3-27                |
| 408101-001 .....      | 3-14, 3-22                     | 934-00-367 .....   | 3-33, 3-34          |

---

---

|                  |                  |
|------------------|------------------|
| 934-00-492 ..... | 3-27, 3-33, 3-34 |
| 936 00 077 ..... | 3-27             |

**W**

---

|                 |            |
|-----------------|------------|
| W908406-4 ..... | 3-33, 3-34 |
|-----------------|------------|

**A**

---

|                |     |
|----------------|-----|
| A10037.3 ..... | 5-8 |
| A10038.7 ..... | 5-8 |

**C**

---

|                |              |
|----------------|--------------|
| C10256 .....   | 5-8          |
| C3069X12 ..... | 10-20, 10-22 |

**H**

---

|                |                        |
|----------------|------------------------|
| HM212011 ..... | 3-11, 3-16, 3-18, 3-24 |
| HM212049 ..... | 3-11, 3-16, 3-18, 3-24 |
| HM218210 ..... | 3-11, 3-16, 3-18, 3-24 |
| HM218248 ..... | 3-11, 3-16, 3-18, 3-24 |

**K**

---

|                  |      |
|------------------|------|
| K71-101-00 ..... | 3-14 |
| K71-136-00 ..... | 3-22 |
| K71-460-00 ..... | 3-14 |

**M**

---

|                    |      |
|--------------------|------|
| MOBIL 85W140 ..... | 11-2 |
|--------------------|------|

**P**

---

|                   |       |
|-------------------|-------|
| PMCK-AD-461 ..... | 10-11 |
| PTO .....         | 10-20 |

**R**

---

|                    |            |
|--------------------|------------|
| RPRB59004X3H ..... | 6-10, 6-12 |
|--------------------|------------|

# 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)

### IDENTIFICATION PLATE

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

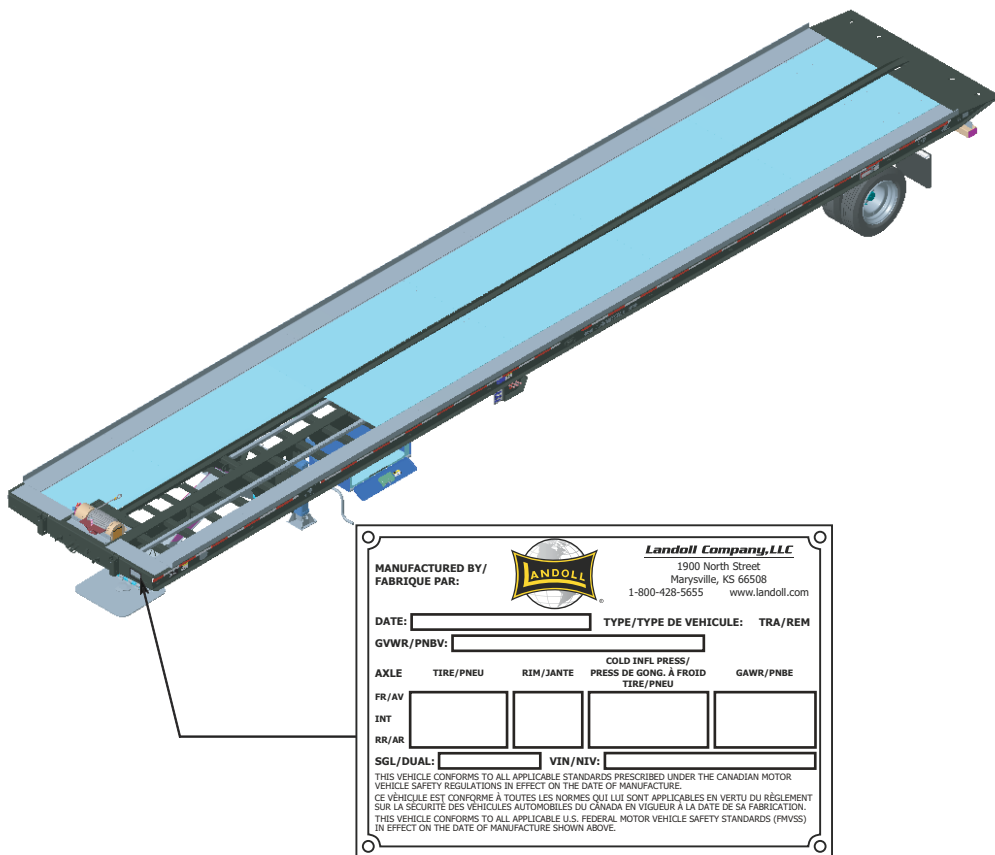
### SERIAL NUMBER

The serial number is located on the identification plate.  
The Following information will help decode the trailer serial number

**AAABBBBCDEFGHJJJJJ**

|            |                                 |
|------------|---------------------------------|
| <b>AAA</b> | = world manufacturer identifier |
| <b>BBB</b> | = model                         |
| <b>C</b>   | = length                        |
| <b>D</b>   | = axle type                     |
| <b>E</b>   | = federal check digit           |

|             |                        |
|-------------|------------------------|
| <b>F</b>    | = model year           |
| <b>G</b>    | = plant of manufacture |
| <b>H</b>    | = model version        |
| <b>JJJJ</b> | = serial number        |



**Figure 15-1: Identification Plate and Location**

## Manuals for 330D Semi Trailer

| Manual Number | Manual Type       |
|---------------|-------------------|
| F-1165        | Operator's Manual |
| F-1022        | Parts Manual      |



# Document Control Revision Log:

| Date       | Form #      | Improvement(s): Description and Comments                                |
|------------|-------------|-------------------------------------------------------------------------|
| 09/14/2021 | F-1022-0921 | New Format, updated LSS-25K-5.5 Suspension, 12.25 and 16.5 Disc Brakes. |
| 11/08/2022 | F-1022-1122 | ECN Updates                                                             |
| 11/07/2023 | F-1022-2311 | Updated with Corrections, Updates and ECN's.                            |
| 12/20/2024 | F-1022-2412 | Updated with Corrections, Updates and ECN's.                            |





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

# **330D**

## **Parts Manual**

### **Re-Order Part Number F-1022**

**LANDOLL COMPANY, LLC.**

1900 North Street  
Marysville, Kansas 66508  
(785) 562-5381  
**800-428-5655 ~ WWW.LANDOLL.COM**



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