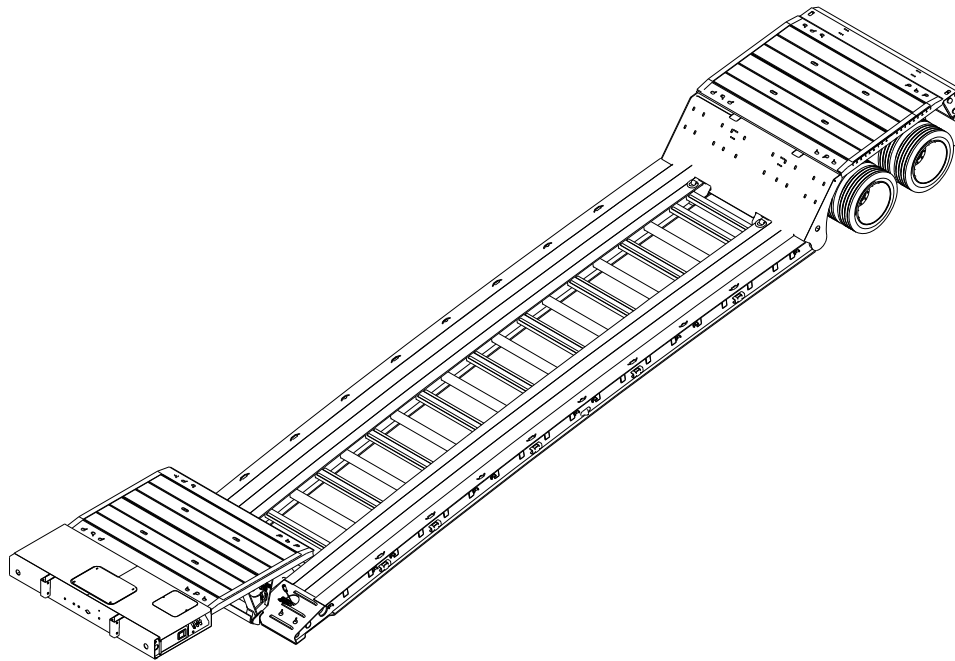




**MODEL 825B/835B SERIES  
SEMITRAILER  
PARTS MANUAL**



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



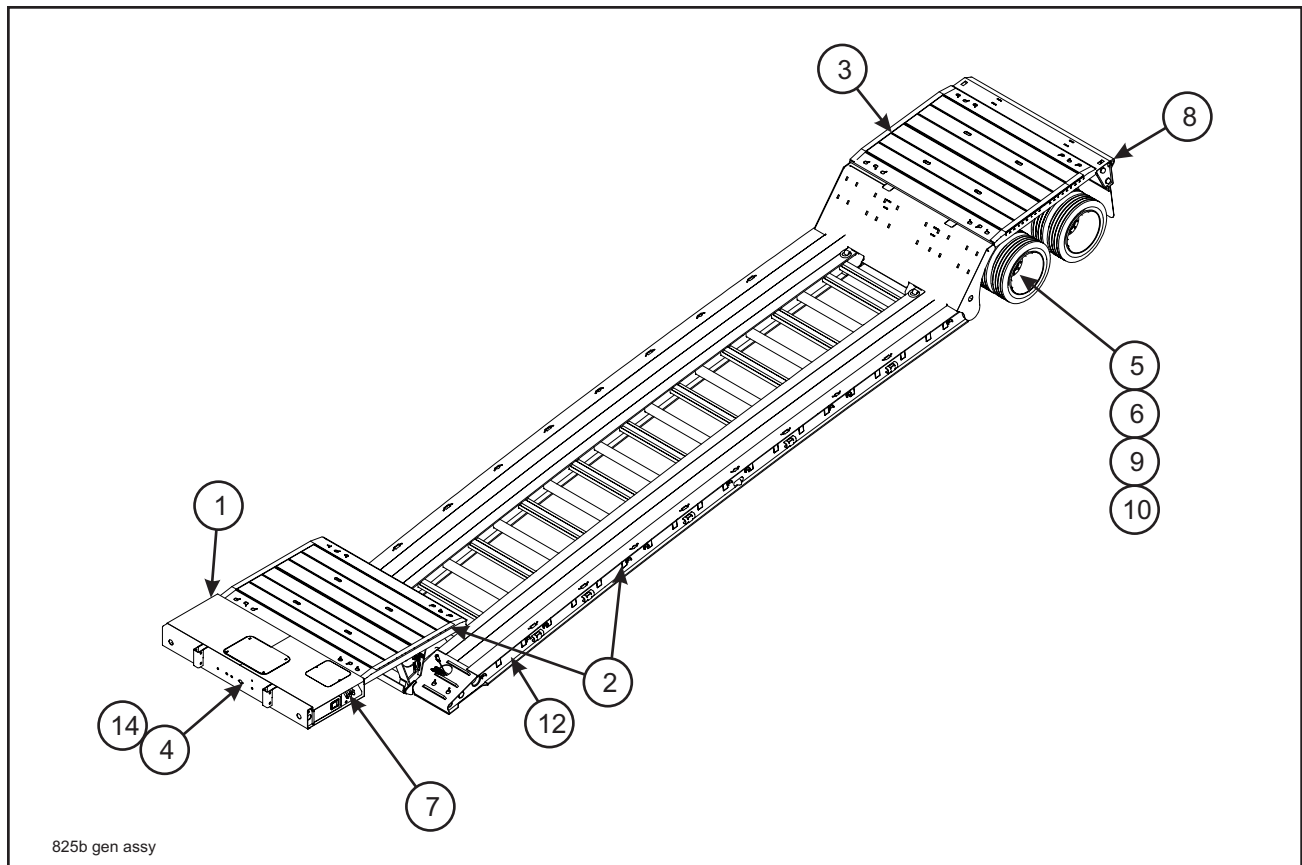
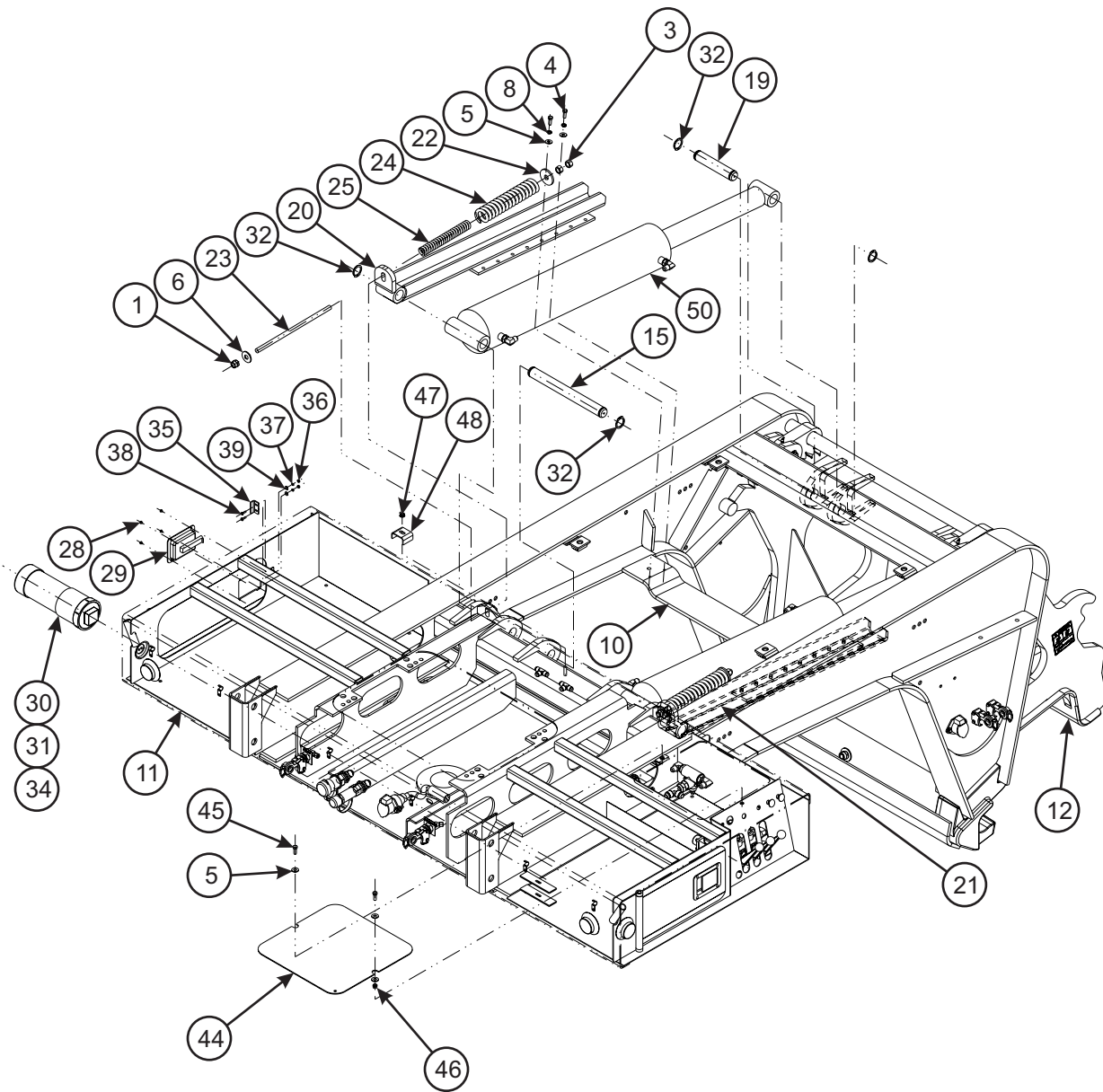


Figure 1-1 General Assembly

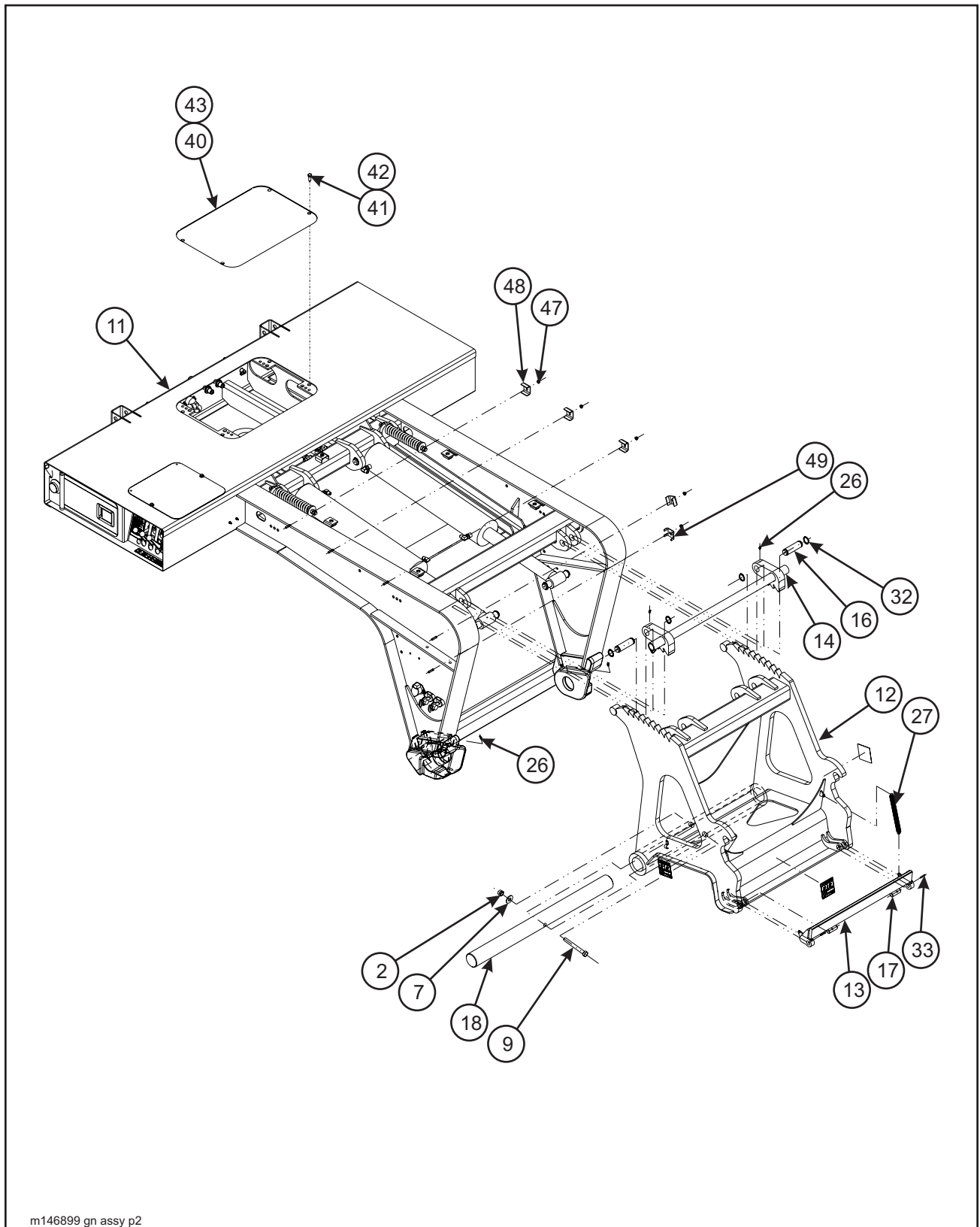
## GENERAL ASSEMBLY

| ITEM | PAGE/PART NO.            | DESCRIPTION                          | QTY. |
|------|--------------------------|--------------------------------------|------|
| 1    | 1-2 - 1-7                | GOOSENECK ASSEMBLY                   |      |
| 2    | 1-8 - 1-13               | BED AND PULL/SWING OUT INSTALLATIONS |      |
| 3    | 1-14 - 1-23              | FRAME ASSEMBLIES                     |      |
| 4    | 1-24 - 1-25              | AIR SYSTEM                           |      |
| 5    | 1-26 - 1-41              | AIR RIDE SUSPENSION ASSEMBLIES       |      |
| 6    | 1-42 - 1-43              | AXLE AND BRAKE ASSEMBLY              |      |
| 7    | 1-44 - 1-51              | HYDRAULIC ASSEMBLIES                 |      |
| 8    | 1-52 - 1-57              | ELECTRICAL ASSEMBLY                  |      |
| 9    | 1-58 - 1-75              | AIR BRAKE SYSTEMS                    |      |
| 10   | 1-76 - 1-77              | HUB AND DRUM ASSEMBLY                |      |
| 11   | 1-78 - 1-86; 1-88 - 1-94 | WINCH ASSEMBLIES (NOT SHOWN)         |      |
| 12   | 1-95 - 1-97              | DECAL INSTALLATION                   |      |
| 13   | 1-98 - 1-105             | ENGINE ASSEMBLIES                    |      |
| 14   | 1-87; 1-106 - 1-133      | MISCELLANEOUS OPTIONS                |      |



m146899 gn assy p1

**Figure 1-2 Gooseneck Assembly**  
(1 of 2)



m146899 gn assy p2

**Figure 1-3 Gooseneck Assembly**  
(2 of 2)

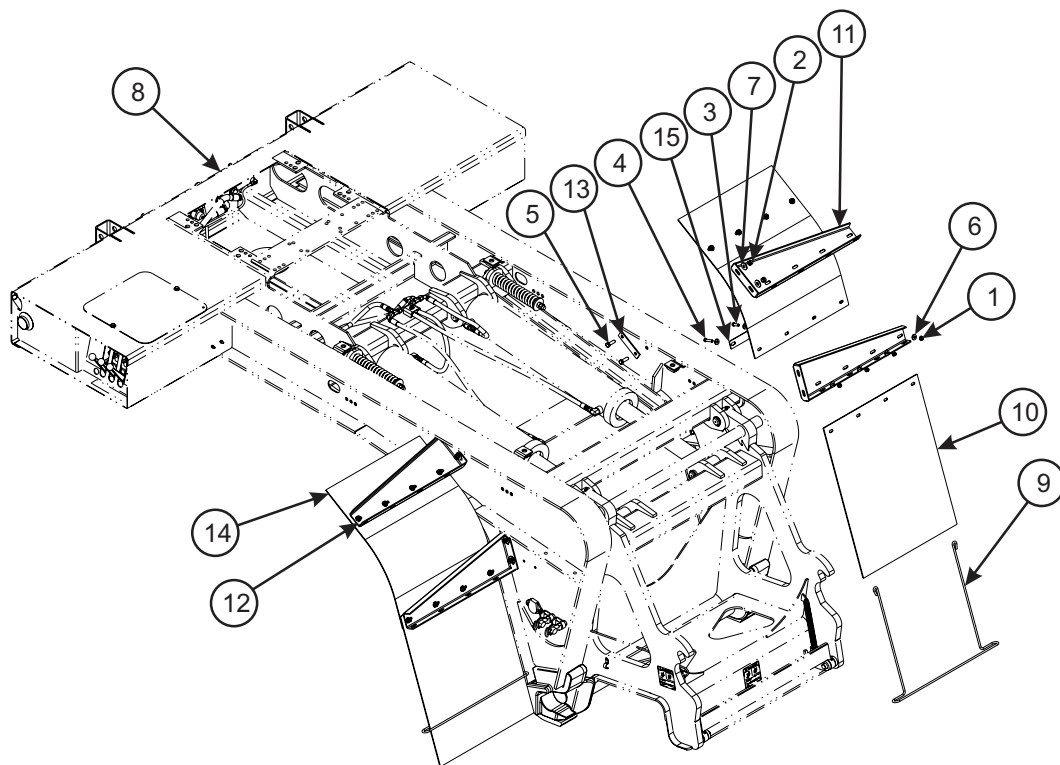
## GOOSENECK ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                                                               | QTY. |
|------|-----------------|---------------------------------------------------------------------------|------|
|      | 146899          | GOOSENECK ASSEMBLY (825B)                                                 |      |
|      | 146909          | GOOSENECK ASSEMBLY (835B)                                                 |      |
| 1    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                                                  | 2    |
| 2    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                                                  | 1    |
| 3    | 1-512-010007-11 | NUT, HEX 5/8-11 GRB                                                       | 4    |
| 4    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5                                        | 4    |
| 5    | 1-861-010032-11 | WASHER, FLAT 3/8W                                                         | *9,6 |
| 6    | 1-861-010032-19 | WASHER, FLAT 5/8W                                                         | 2    |
| 7    | 1-861-010032-21 | WASHER, FLAT 3/4W                                                         | 1    |
| 8    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                                                    | 4    |
| 9    | 100855          | SCREW, HEX HEAD CAP 3/4-10 X 6-1/2 GR5                                    | 1    |
| 10   | 105209          | BAR, LIFT ARM CONNECTION                                                  | 1    |
| 11   | 131900          | GOOSENECK WELDMENT (825B)                                                 | 1    |
|      | 128709          | GOOSENECK WELDMENT (835B)                                                 | 1    |
| 12   | 105212          | CARRIER WELDMENT                                                          | 1    |
| 13   | 105237          | LATCH, WELDMENT G/N LOWER                                                 | 1    |
| 14   | 105239          | LATCH, WELDMENT G/N UPPER                                                 | 1    |
| 15   | 105241          | PIN, 1-1/2 X 15                                                           | 2    |
| 16   | 105242          | PIN, 1-1/2 X 5-1/4                                                        | 2    |
| 17   | 105243          | PIN, LOWER G/N LATCH                                                      | 2    |
| 18   | 105245          | PIN, G/N TO CARRIER                                                       | 1    |
| 19   | 105272          | PIN, 1-1/2 X 7-3/4                                                        | 2    |
| 20   | 105285          | WELDMENT, RH CHANNEL, LIFT G/N                                            | 1    |
| 21   | 106943          | WELDMENT, LH CHANNEL LIFT G/N                                             | 1    |
| 22   | 106945          | WASHER, G/N LIFT                                                          | 2    |
| 23   | 106961          | ROD, 5/8 THREADED                                                         | 2    |
| 24   | 2-720-010002    | SPRING CLAMP                                                              | 2    |
| 25   | 2-720-010003    | SPRING - COMPRESSION                                                      | 2    |
| 26   | 5210            | FITTING, GREASE 1/4-28 X 45                                               | *8,4 |
| 27   | 3-720-010075    | SPRING EXTENSION 7/8 X 6                                                  | 1    |
| 28   | BSL-6-4         | RIVET, 3/16 AL X 1/4 GRIP LG                                              | *8,4 |
| 29   | 3-443-010010    | LATCH                                                                     | *2,1 |
| 30   | 130511          | TUBE ASSEMBLY, MANUAL STORAGE                                             | 1    |
| 31   | 105-0094        | HOSE CLAMP, 4-1/8 - 5                                                     | 1    |
| 32   | 1-630-010021-01 | RING, 1-1/2 RETAINING HD                                                  | 12   |
| 33   | 1-647-010004221 | PIN, SPRING SLOTTED 1/4 X 2                                               | 2    |
| 34   | F-484-          | MANUAL, MODEL 825/835B OPERATOR'S                                         | 1    |
| 35   | 3-482-010307    | MOUNT, ADJ STRIKER PLATE                                                  | *2,1 |
| 36   | 1-512-010007-03 | NUT, HEX 10-24                                                            | *4,2 |
| 37   | 1-861-010034-07 | WASHER, SPLIT LOCK #10                                                    | *4,2 |
| 38   | 1-656-010003051 | SCREW, RD HEAD MACH #10-24 X 3/4                                          | *4,2 |
| 39   | 1-861-010032-04 | WASHER, FLAT 3/16                                                         | *4,2 |
| 40   | 110510          | COVER INSTALLATION WINCH OPENING<br>(USED IF NO WINCH) (INCL ITEMS 41-43) | 1    |
|      | 105098          | WINCH INSTALLATION 12K (NOT SHOWN)(SEE PAGE 1-79)                         | 1    |
|      | 105099          | WINCH INSTALLATION 20K (NOT SHOWN)(SEE PAGE 1-79)                         | 4    |
| 41   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                                  | 4    |
| 42   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5                                    | 4    |

## GOOSENECK ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                          | QTY. |
|------|-----------------|--------------------------------------|------|
| 43   | 107888          | COVER, G/N WINCH OPENING             | 1    |
| 44   | 105257          | COVER, TOOLBOX                       | 1    |
| 45   | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5   | 2    |
| 46   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16                 | 2    |
| 47   | 1-510-010001    | NUT, FLANGE LOCK 3/8-16              | 6    |
| 48   | 2-181-010001    | CLAMP                                | 5    |
| 49   | 138814          | HOSE CLAMP, NOTCHED                  | 1    |
| 50   | 138711          | CYLINDER, HYD 6 X 30 (SEE PAGE 1-49) | 2    |

\* 1ST QUANTITY SHOWN IS FOR P/N 146899; 2ND QUANTITY SHOWN IS FOR P/N 146909.

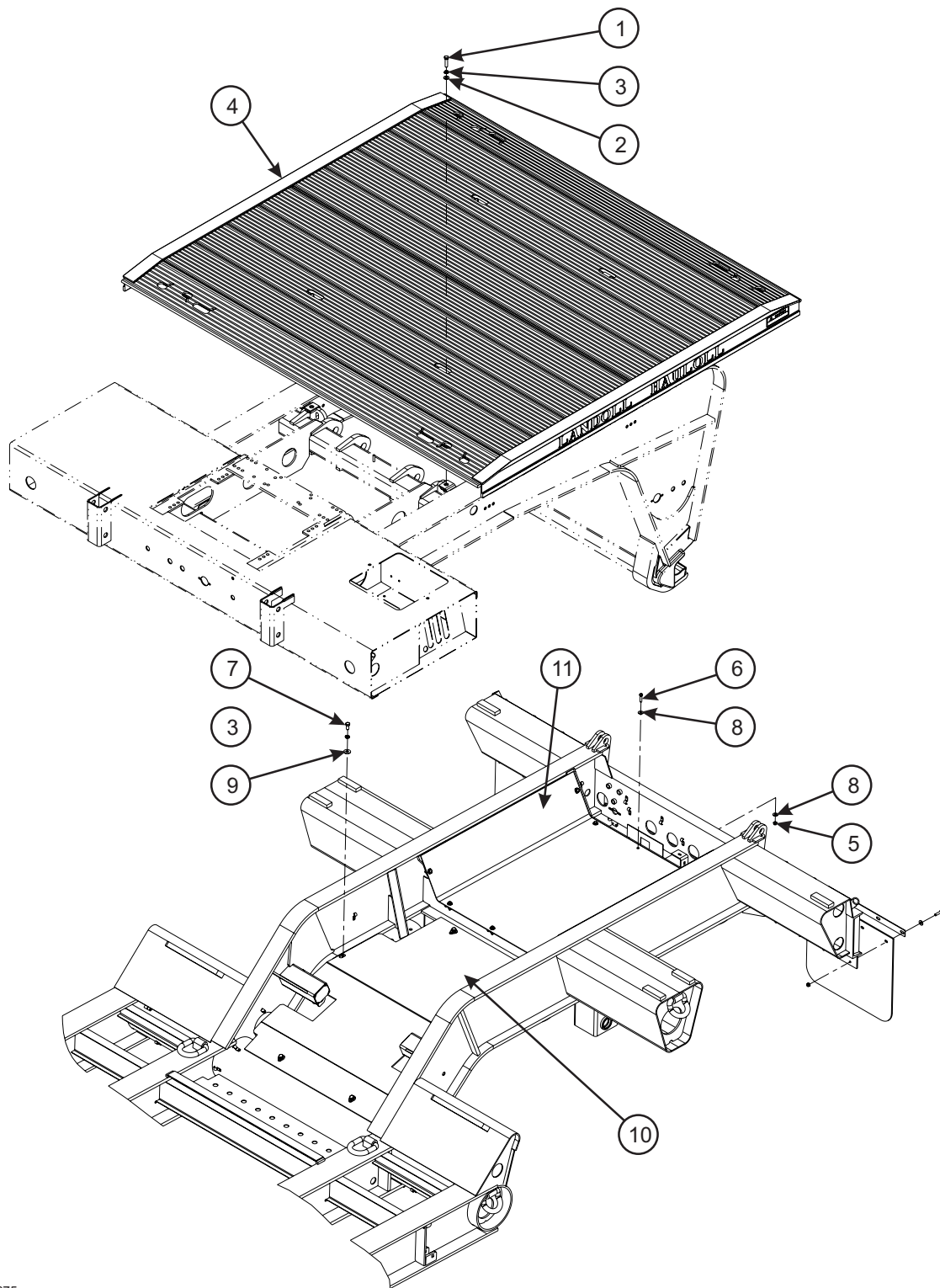


m142065

**Figure 1-4 Gooseneck Mud Flap Installation**

## GOOSENECK MUD FLAP INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 142065          | MUD FLAP INSTALLATION, GOOSENECK       |      |
| 1    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                | 16   |
| 2    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 8    |
| 3    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 | 12   |
| 4    | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5 | 4    |
| 5    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 8    |
| 6    | 1-861-010032-11 | WASHER, FLAT 3/8W                      | 32   |
| 7    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 8    |
| 8    | -----           | GOOSENECK ASSEMBLY                     | REF  |
| 9    | 128886          | BRACKET, ANTI-SAIL MUD FLAP            | 2    |
| 10   | 131195          | MUD FLAP, BLACK POLYMER 24 X 30        | 2    |
| 11   | 136870          | MOUNT, FENDER/ MUD FLAP RH             | 2    |
| 12   | 136871          | MOUNT, FENDER/ MUD FLAP LH             | 2    |
| 13   | 136908          | DOUBLER FENDER MOUNTING                | 4    |
| 14   | 142064          | MUD FLAP, POLYMER MOD 24 X 30          | 2    |
| 15   | 3-762-010017    | CLAMP, MUD FLAP                        | 4    |



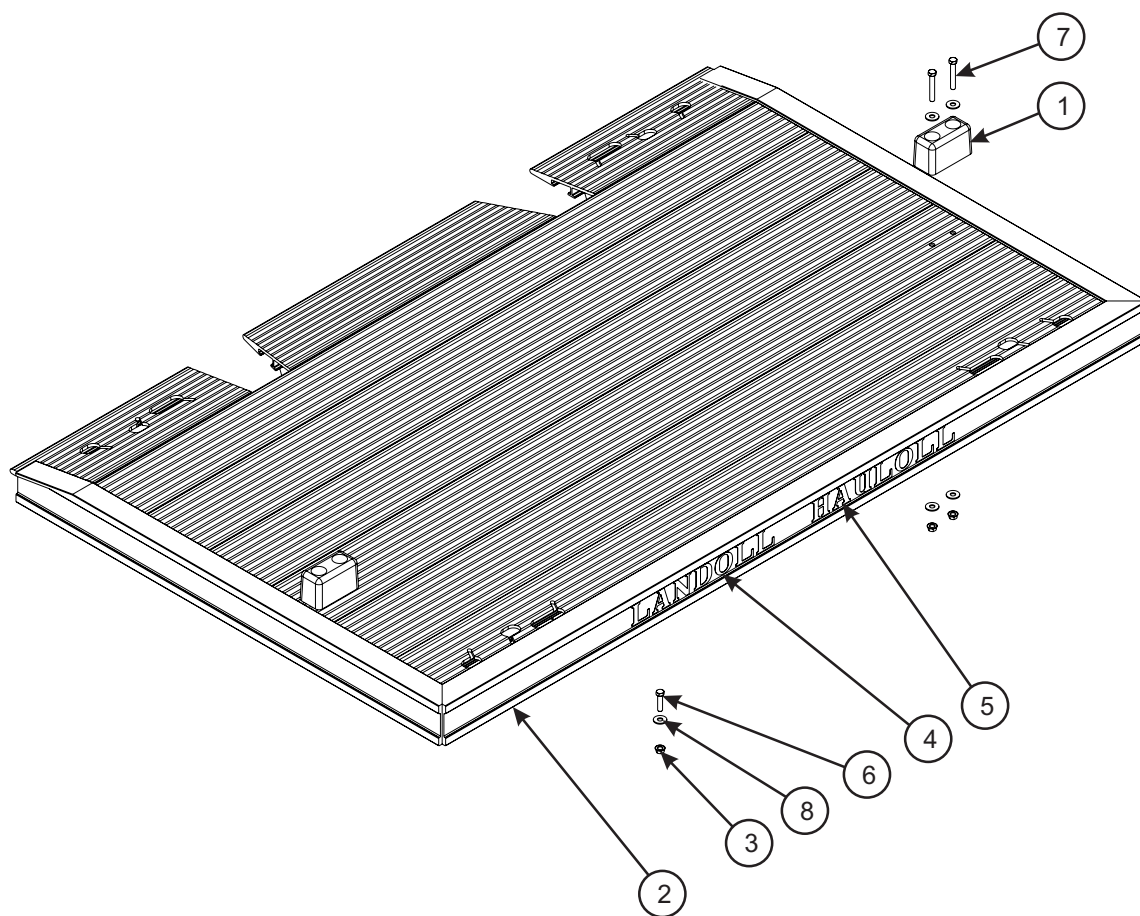
m120675

**Figure 1-5 Bed Installation (Trunnion and Gooseneck)**

## BED INSTALLATION (TRUNNION AND GOOSENECK)

| ITEM | PART NO.        | DESCRIPTION                                   | QTY. |
|------|-----------------|-----------------------------------------------|------|
|      | 105190          | BED INSTALLATION ALUM. (825/835B) (ITEMS 1-4) |      |
|      | 131150          | BED INSTALLATION ALUM. (825B) (ITEMS 1-4)     |      |
|      | 129311          | BED INSTALLATION ALUM. (835B) (ITEMS 1-4)     |      |
|      | 129876          | BED INSTALLATION ALUM. (835B) (ITEMS 1-4)     |      |
|      | 128699          | BED INSTALLATION ALUM. (835B) (ITEMS 1-4)     |      |
|      | 120675          | TRUNNION COVER (835B) (ITEMS 3, 5-11)         |      |
| 1    | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5            | 4    |
| 2    | 1-861-010032-14 | WASHER, FLAT 1/2                              | 4    |
| 3    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                        | *4,6 |
| 4    | 105193          | BED WELDMENT (825B & 835B)                    | 1    |
|      | 129312          | BED WELDMENT ALUM (835B)                      | 1    |
|      | 129877          | BED WELDMENT ALUM (835B SPREAD)               | 1    |
|      | 128715          | BED WELDMENT ALUM (835B)                      | 1    |
|      | 131151          | BED WELDMENT ALUM (825B)                      | 1    |
| 5    | 1-510-010001    | NUT, FLANGE HEAD SERRATED 3/8-16              | 8    |
| 6    | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5        | 10   |
| 7    | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5            | 6    |
| 8    | 1-861-010032-11 | WASHER, FLAT 3/8 W                            | 18   |
| 9    | 1-861-010032-15 | WASHER, FLAT 1/2W                             | 6    |
| 10   | 114723          | COVER, TROUGH 835 FRONT                       | 1    |
| 11   | 114724          | COVER, TRUNNION FORMED                        | 1    |

\* 1ST QUANTITY USED W/ P/N 105190; 2ND QUANTITY USED W/ P/N 120675

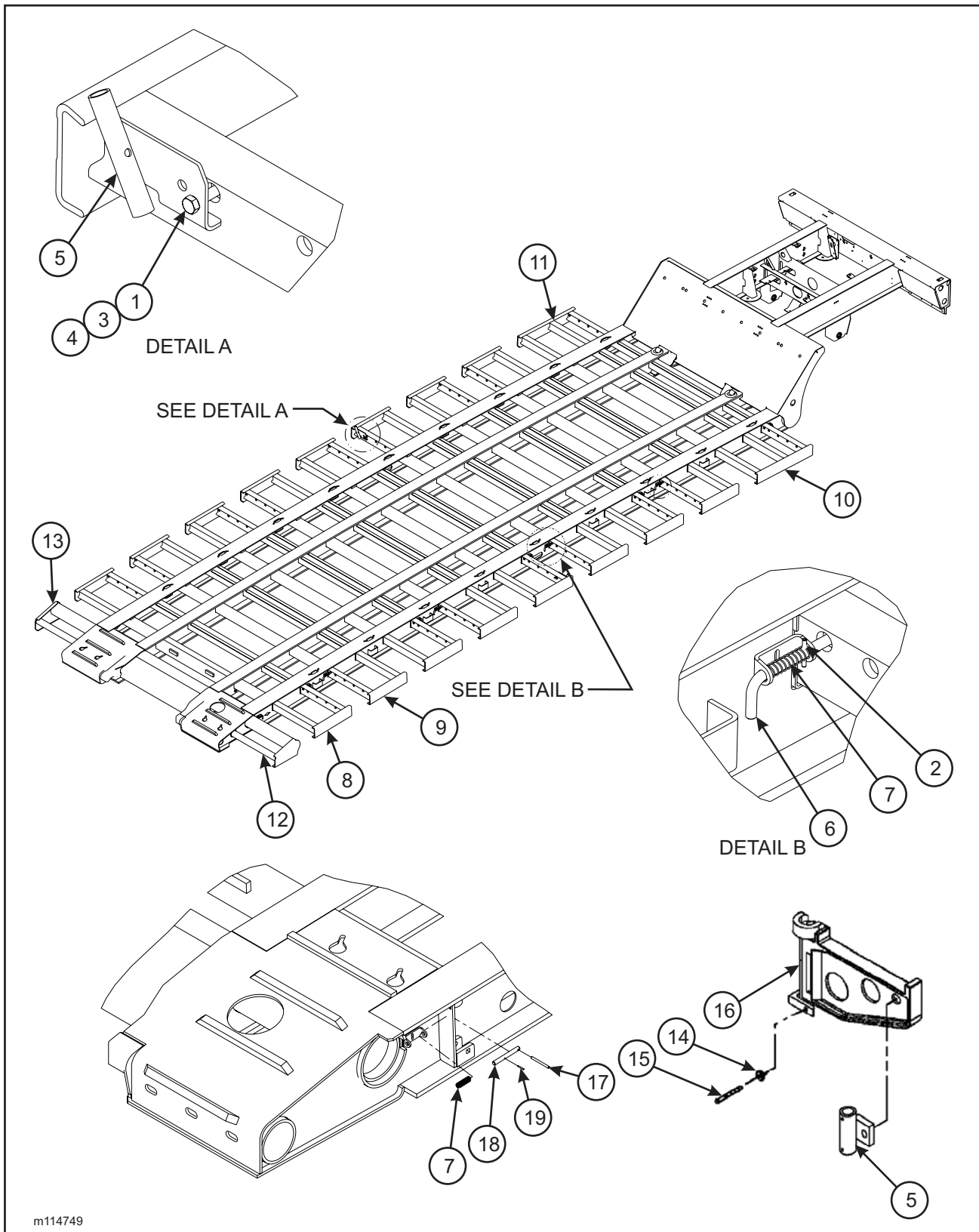


m130283

Figure 1-6 Bed Installation (Flip Axle)

## **BED INSTALLATION (FLIP AXLE)**

| <b>ITEM</b> | <b>PART NO.</b> | <b>DESCRIPTION</b>                     | <b>QTY.</b> |
|-------------|-----------------|----------------------------------------|-------------|
|             | 130283          | BED ASSEMBLY, FLIP AXLE (835B)         |             |
| 1           | 128874          | BUMPER, RUBBER 6 X 3 X 3-1/2           | 2           |
| 2           | 130284          | BED WELDMENT, 835 FLIP AXLE            | 1           |
| 3           | 1-510-010003-09 | NUT, FLANGE HEAD SERR, 1/2-13          | 8           |
| 4           | 1-573-010477    | DECAL, LANDOLL (BLACK)                 | 1           |
| 5           | 1-573-010478    | DECAL, HAULOLL (BLACK)                 | 1           |
| 6           | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5     | 4           |
| 7           | 1-654-010055-10 | SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5 | 4           |
| 8           | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 12          |

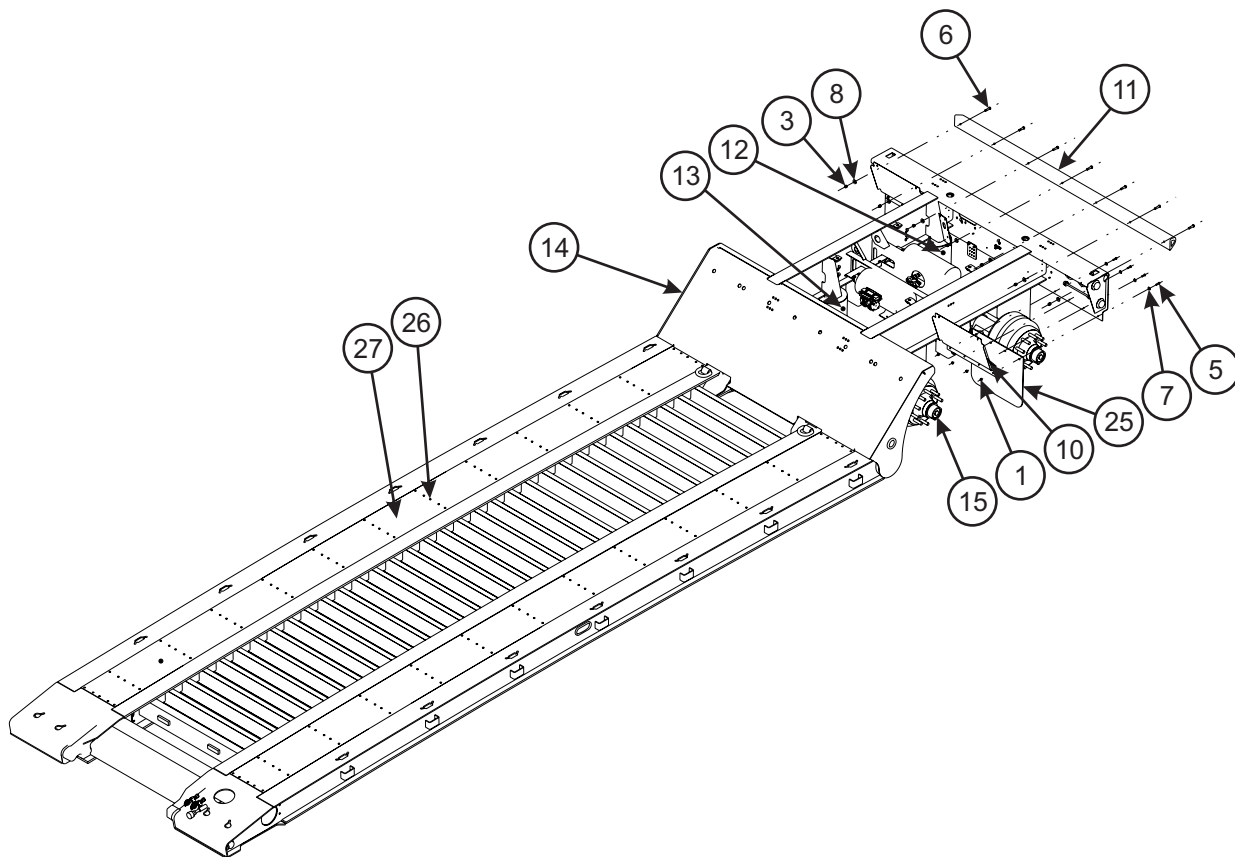


**Figure 1-7 Pull and Swing Out Installations**

## PULL AND SWING OUT INSTALLATIONS

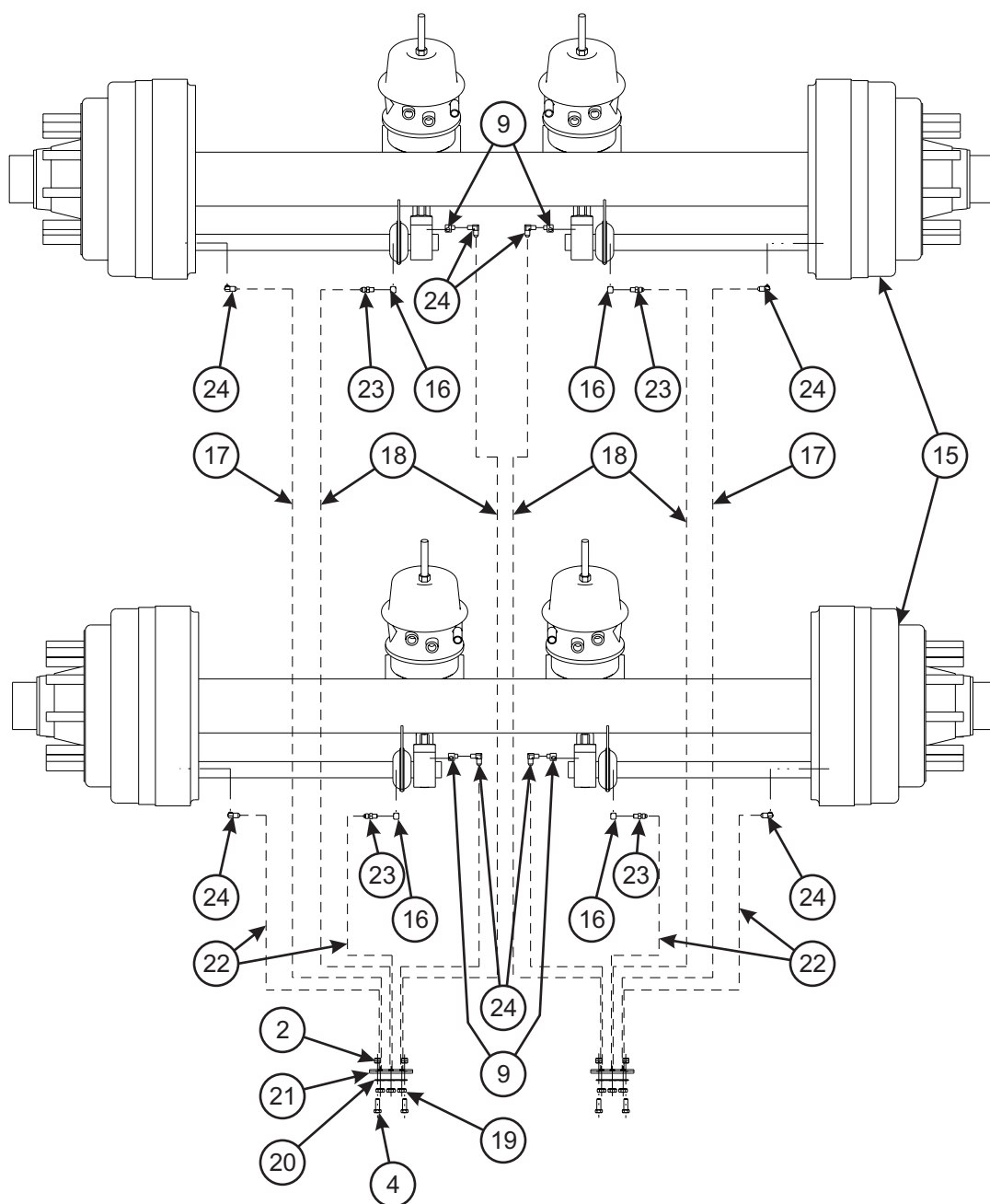
| ITEM | PART NO.        | DESCRIPTION                                         | QTY.     |
|------|-----------------|-----------------------------------------------------|----------|
|      | 112622          | PULL OUT INSTALLATION 825 - 28 (ITEMS 1-13)         |          |
|      | 112655          | PULL OUT INSTALLATION 825 - 30 (ITEMS 1-9, 12-13)   |          |
|      | 120685          | SWING-OUT INSTALLATION 835-27 (ITEMS 1, 3-5, 14-16) |          |
|      | 128661          | PULLOUT EXT INSTALLATION 825                        |          |
|      | 129875          | PULLOUT EXT INSTALLATION 835-30                     |          |
| 1    | 1-533-010001    | NUT, WING 1/2-13                                    | 2        |
| 2    | 125520          | ROLL PIN, SLTD 1/8 X 1-1/2                          | 20,22*   |
| 3    | 1-654-010055-03 | SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5 (825)         | 2        |
|      | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (835)            | 2        |
|      | 1-654-010055-07 | SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5 (835)        | 2        |
| 4    | 1-861-010032-15 | WASHER FLAT 1/2W                                    | 2        |
| 5    | 108859          | WELDMENT, BRACKET FLAG HOLDER (PULLOUT EXT)         | 2        |
|      | 114741          | HOLDER, FLAG WELDMENT (SWINGOUT OUTRIGGER)          | 2        |
| 6    | 104252          | PIN, P/O EXT LOCK                                   | 20,22*   |
| 7    | 104253          | SPRING, COMPRESSION P/O EXT LOCK                    | 20,22,2* |
| 8    | 112598          | PULL OUT ASSEMBLY, RH                               | 8,10*    |
| 9    | 112599          | PULL OUT ASSEMBLY, LH                               | 8,10*    |
| 10   | 112621          | EXTENSION WELDMENT, P/O REAR RH (825-28)            | 1        |
|      | 128712          | PULLOUT WELDMENT, RH 10 (835)                       | 1        |
| 11   | 113026          | EXTENSION WELDMENT P/O REAR LH (825-28)             | 1        |
|      | 128711          | PULLOUT WELDMENT, LH 10 (835)                       | 1        |
| 12   | 134980          | WELDMENT, PULL OUT EXT FRONT LH (825)               | 1        |
|      | 128797          | PULLOUT WELDMENT, STL FRONT LH (835)                | 1        |
| 13   | 134979          | WELDMENT, PULL OUT EXT FRONT RH (825)               | 1        |
|      | 128798          | PULLOUT WELDMENT, STL FRONT RH (835)                | 1        |
| 14   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                            | 30       |
| 15   | 1-654-010070-13 | SCREW, RD HEAD SQ NECK 1/2-13 X 4                   | 30       |
| 16   | 167-0022        | OUTRIGGER FOR 10 CHANNEL                            | 30       |
| 17   | 1-647-010004225 | ROLL PIN, SLOTTED 1/4 X 3                           | 2        |
| 18   | 3-557-010375    | PIN, SLIDE LOCK                                     | 2        |
| 19   | 1-647-010004117 | ROLL PIN, SLOTTED 1/8 X1                            | 2        |

\* 1ST QTY IS FOR P/N 112622; 2ND QTY IS FOR P/N 112655.



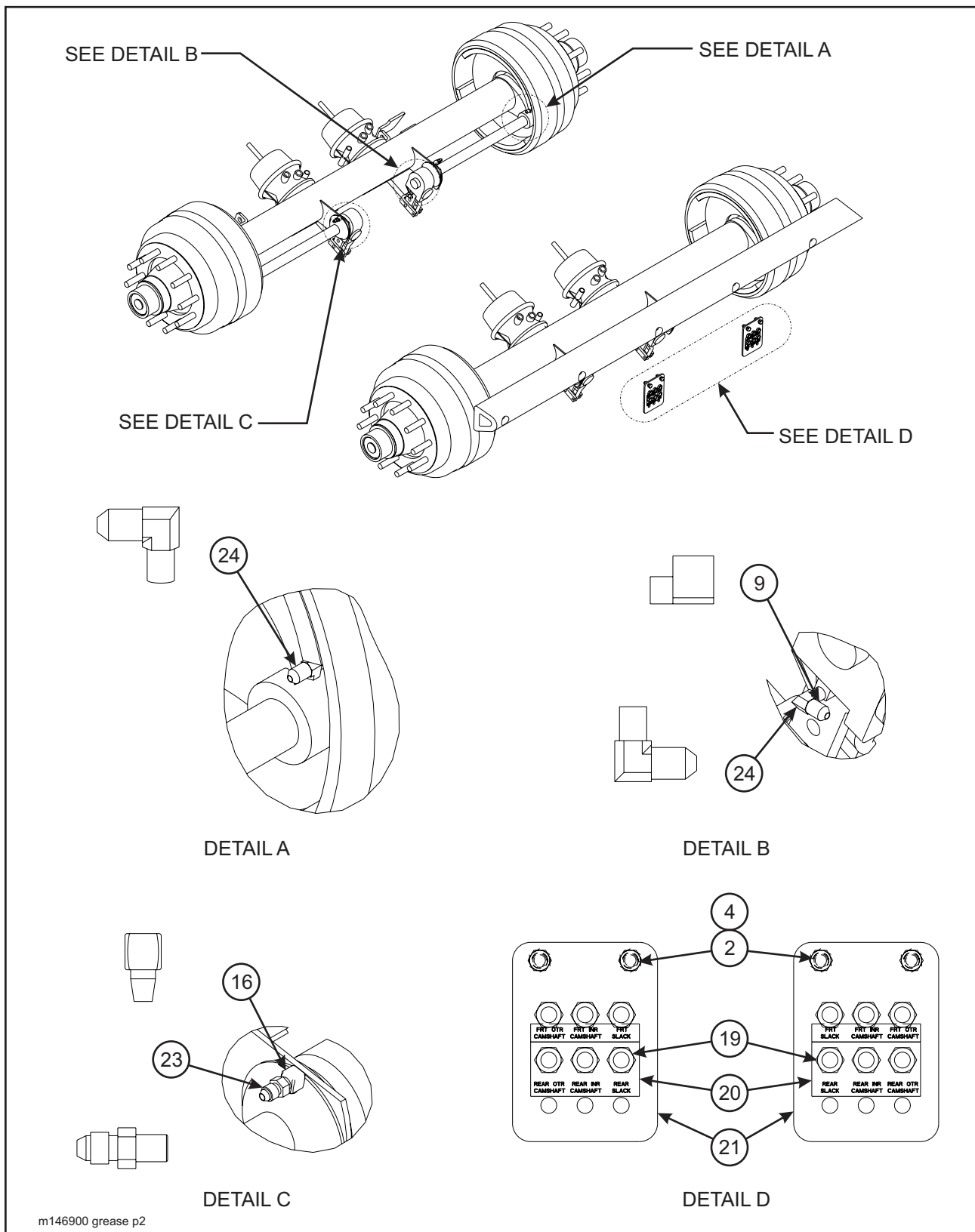
m146900 frame

**Figure 1-8 Frame Assembly and Grease System (825B)**  
(1 of 3)



m146900 grease p1

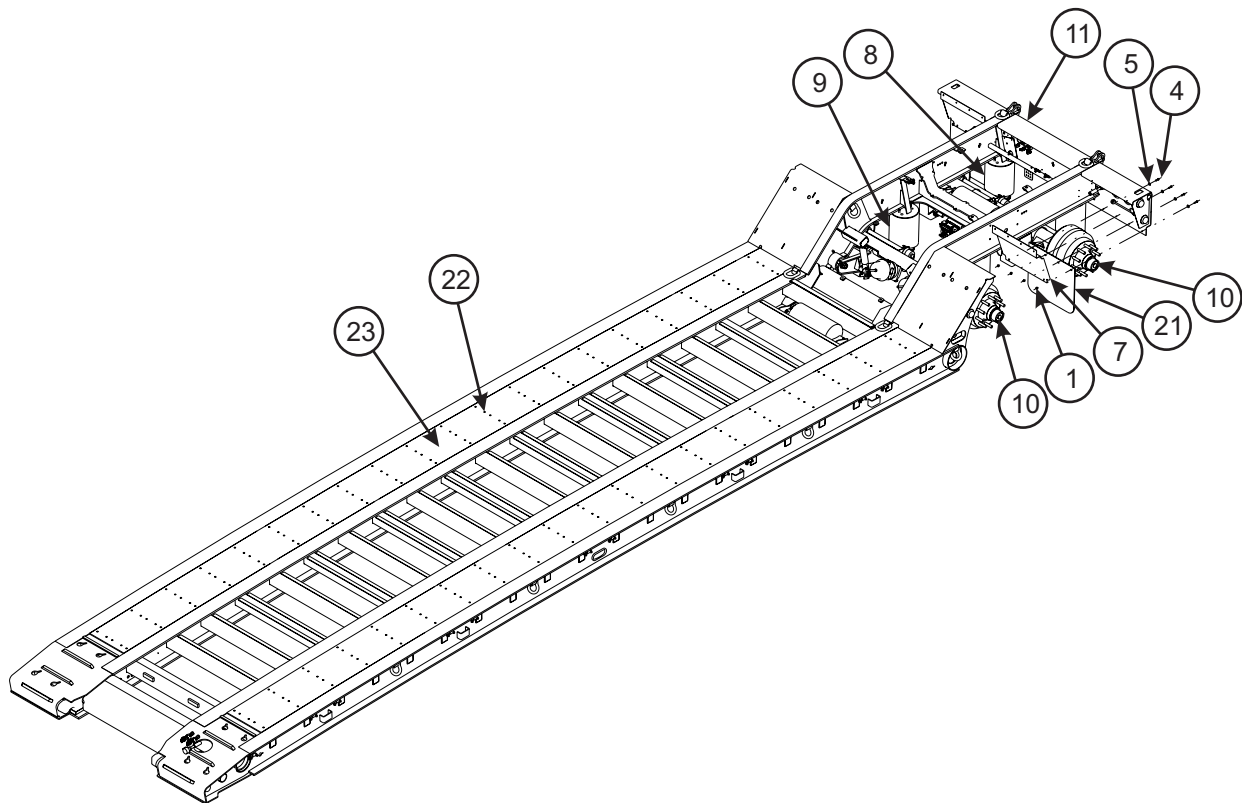
**Figure 1-9 Frame Assembly and Grease System (825B)**  
(2 of 3)



**Figure 1-10 Frame Assembly and Grease System (825B)**  
(3 of 3)

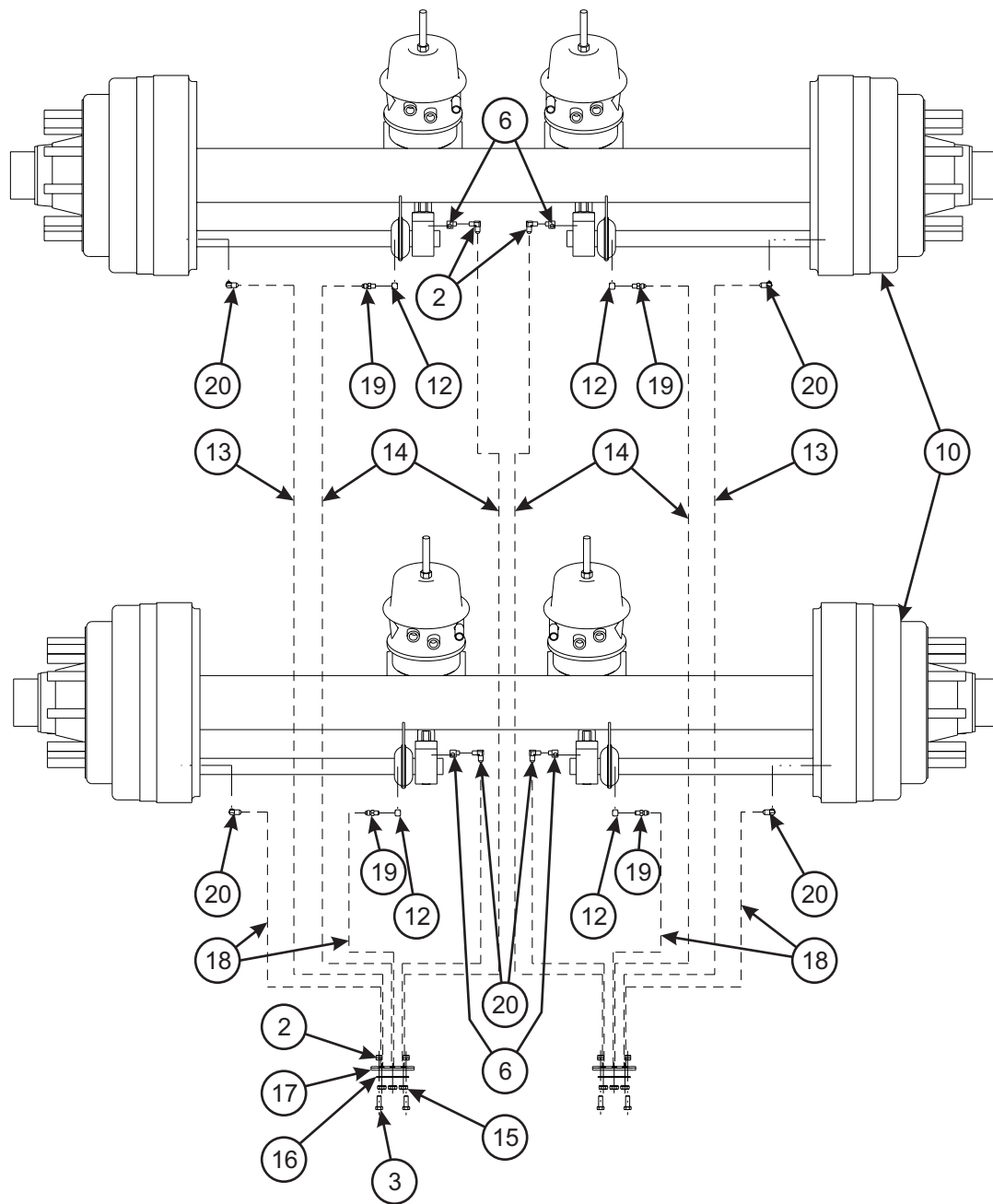
## FRAME ASSEMBLY AND GREASE SYSTEM (825B)

| ITEM | PART NO.        | DESCRIPTION                                                                       | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------|------|
|      | 146901          | FRAME ASSEMBLY 825-23 TANDEM                                                      |      |
|      | 146902          | FRAME ASSEMBLY 825-26 TANDEM                                                      |      |
|      | 146903          | FRAME ASSEMBLY 825-28 TANDEM                                                      |      |
|      | 146904          | FRAME ASSEMBLY 825-30 TANDEM                                                      |      |
|      | 146905          | FRAME ASSEMBLY 82530 X-IBM                                                        |      |
| 1    | 1-510-010001    | NUT, FLANGE HEAD SERR 3/8-16                                                      | 8    |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                                          | 4    |
| 3    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                                          | 7    |
| 4    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5                                                | 4    |
| 5    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5                                            | 8    |
| 6    | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5                                                | 7    |
| 7    | 1-861-010032-11 | WASHER, FLAT 3/8W                                                                 | 7    |
| 8    | 1-861-010032-15 | WASHER, FLAT 1/2W                                                                 | 7    |
| 9    | 101528          | ELBOW, BR PIPE STR                                                                | 4    |
| 10   | 105132          | SHIELD, TAIL LIGHT                                                                | 2    |
| 11   | 106611          | BUMPER, REAR TRAILER                                                              | 1    |
| 12   | 110618          | SUSPENSION FASTENER, RLU 250-9-4 (SEE PAGE 1-35)                                  | 1    |
| 13   | 110622          | SUSPENSION FASTENER, RLU 250 FMT(SEE PAGE 1-37)                                   | 1    |
| 14   | 110743          | FRAME WELDMENT 825-28 W/ RLU                                                      | 1    |
|      | 110744          | FRAME WELDMENT 825-30 W/ RLU                                                      | 1    |
|      | 138532          | FRAME WELDMENT 825-23                                                             | 1    |
|      | 128650          | FRAME WELDMENT 825-26 W/ RLU250                                                   | 1    |
|      | 140333          | FRAME WELDMENT 825-28 I-MBR                                                       | 1    |
| 15   | 115752          | AXLE WELDMENT 2516 SPG 79 327 FRT                                                 | 1    |
|      | 115756          | AXLE WELDMENT 2516 SPG 79 327 CTR                                                 | 1    |
|      | 138961          | AXLE WELDMENT 2516 SPG 79 FMT 79                                                  | 1    |
|      | 138962          | AXLE WELDMENT 2516 SPG 79 FMT 79<br>(FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-43) | 1    |
| 16   | 121355          | ELBOW, 90                                                                         | 4    |
| 17   | 142445          | HOSE ASSEMBLY, GREASE 1/4 X 102                                                   | 2    |
| 18   | 142446          | HOSE ASSEMBLY, GREASE 1/4 X 118                                                   | 4    |
| 19   | 142545          | NUT, HEX JAM 7/16-20                                                              | 12   |
| 20   | 142553          | DECAL, GREASE TRAILER                                                             | 2    |
| 21   | 146922          | BRACKET, BULKHEAD GREASE LINE                                                     | 2    |
| 22   | 146924          | HOSE ASSEMBLY, GREASE 1/4 X 36                                                    | 6    |
| 23   | 2021-2-4        | ADAPTER, STR                                                                      | 4    |
| 24   | 2024-2-4S       | ADAPTER, ELBOW                                                                    | 8    |
| 25   | 3-485-010001    | MUD FLAP 21"                                                                      | 2    |
| 26   | 3-654-010129-1  | SCREW, TORX FLOOR 5/16                                                            | AR   |
| 27   | RWD34999        | DECK, WOOD TRACK                                                                  | AR   |



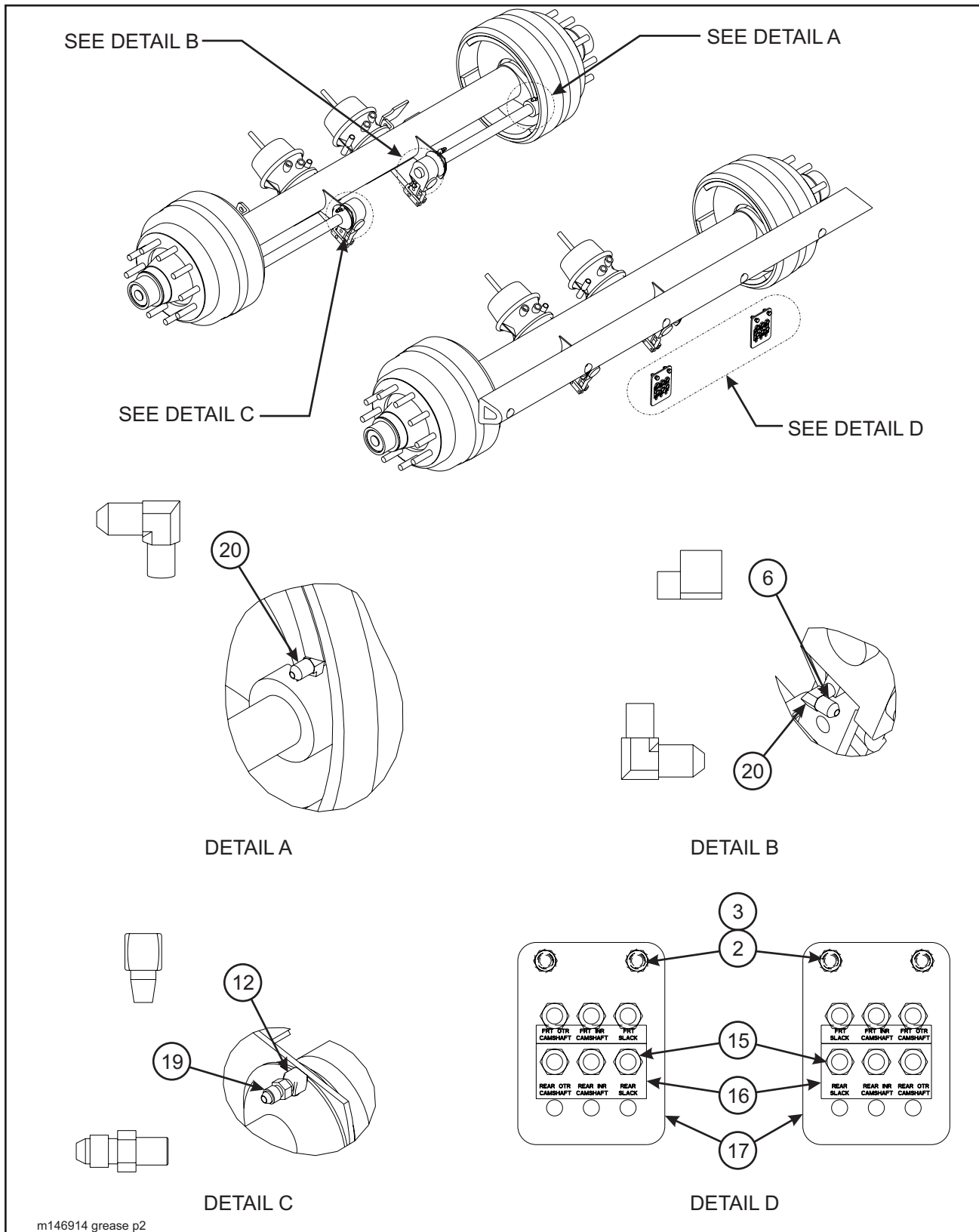
m146914 frame

**Figure 1-11 Frame Assembly and Grease System (835B)**  
(1 of 5)

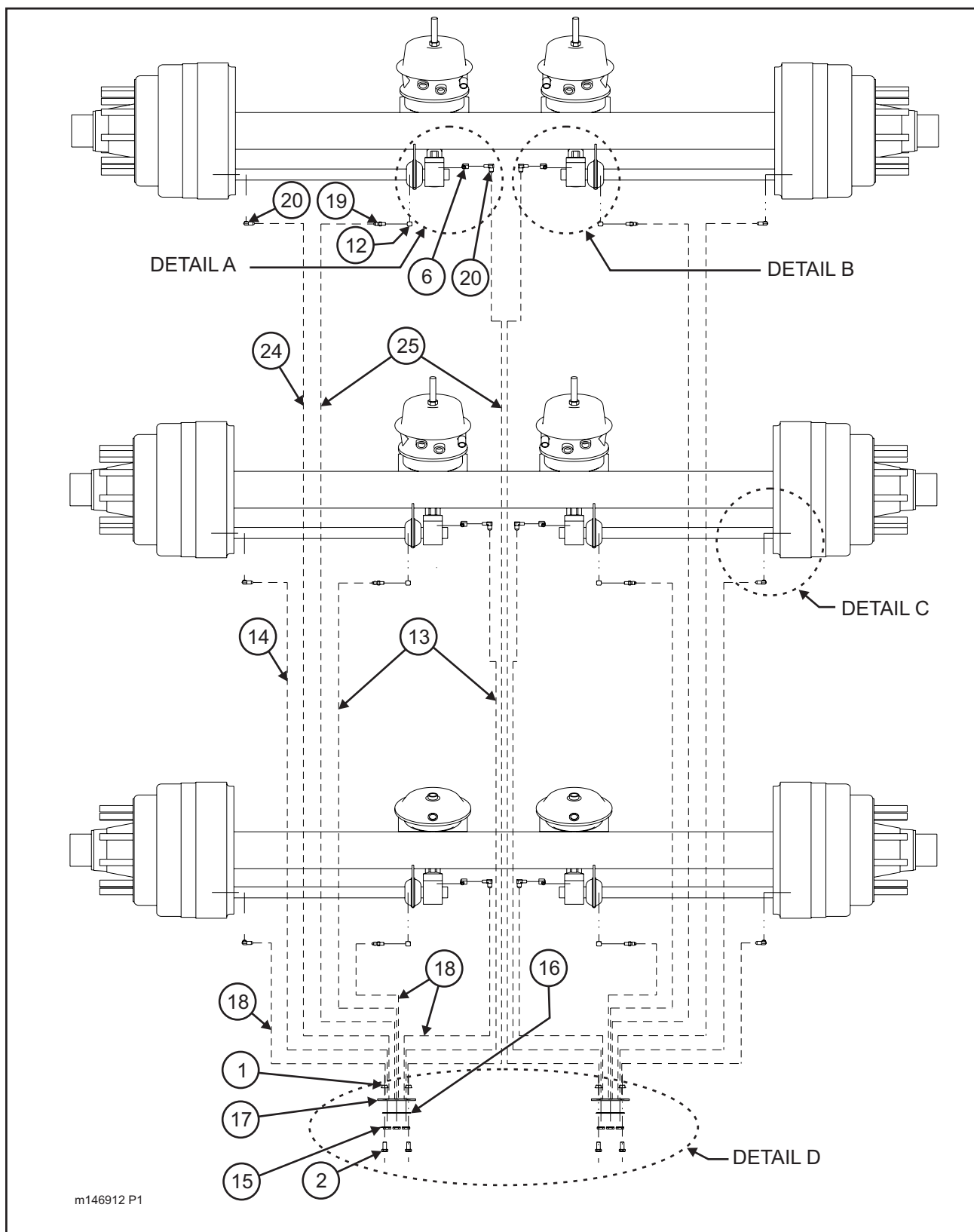


m146914 grease p1

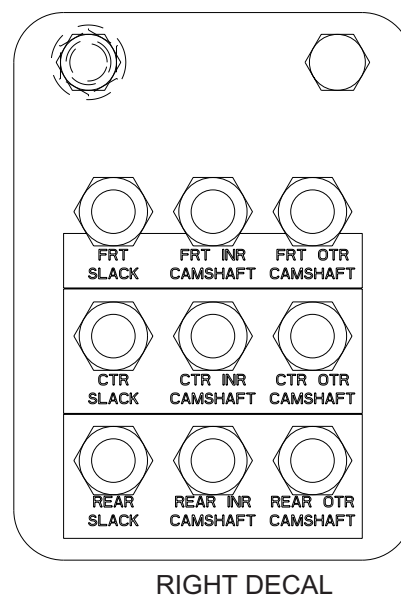
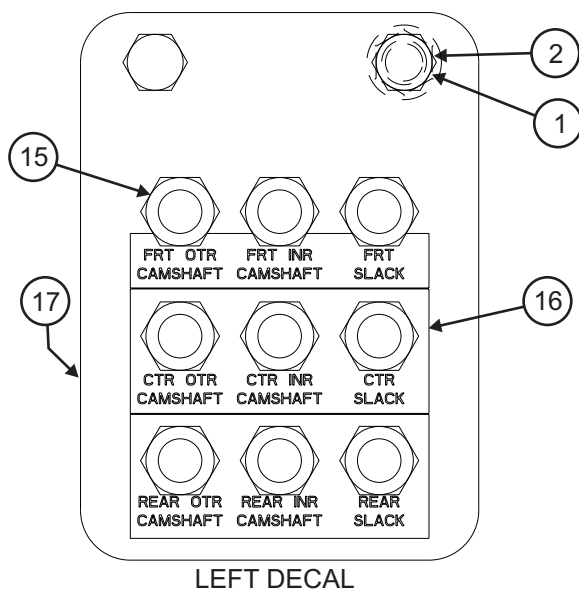
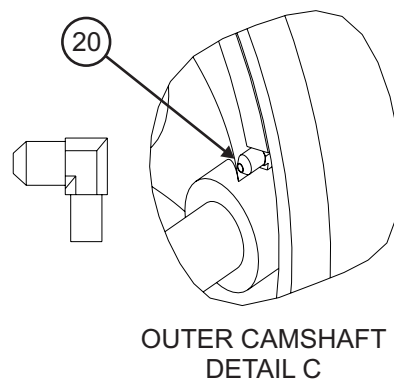
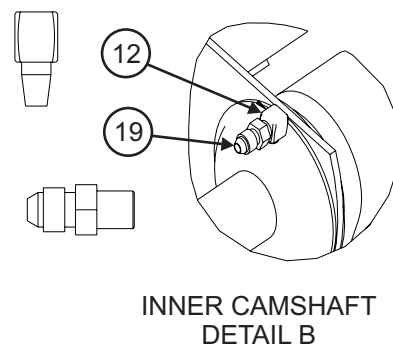
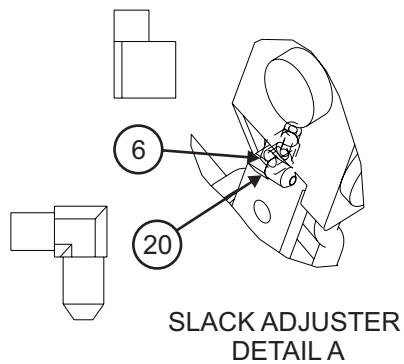
**Figure 1-12 Frame Assembly and Grease System (835B - Tandem)**  
(2 of 5)



**Figure 1-13 Frame Assembly and Grease System (835B - Tandem)**  
(3 of 5)



**Figure 1-14 Frame Assembly and Grease System (835B - Triple)**  
(4 of 5)



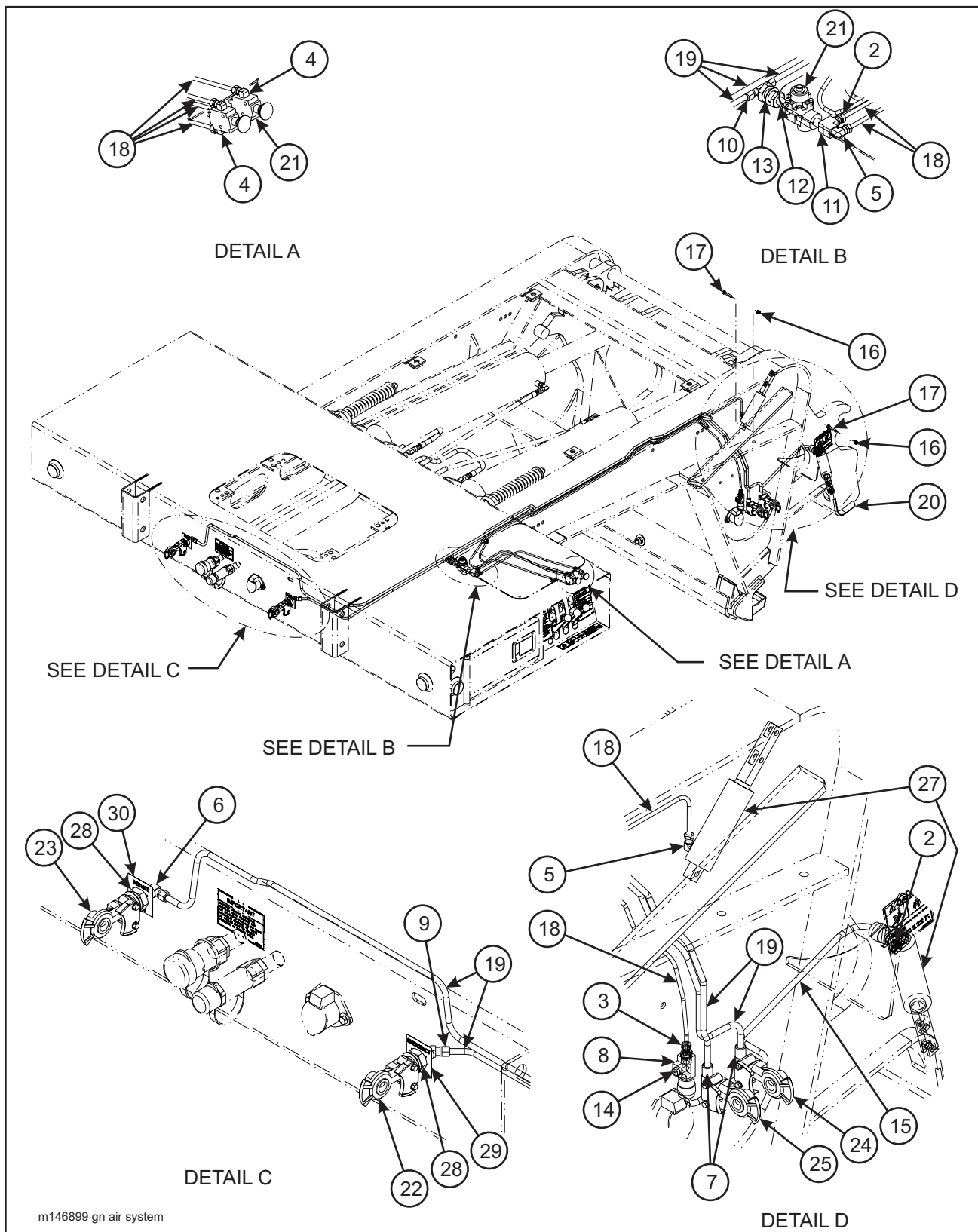
DETAIL D

m146912 P2

Figure 1-15 Frame Assembly and Grease System (835B - Triple)  
(5 of 5)

## FRAME ASSEMBLY AND GREASE SYSTEM (835B)

| ITEM | PART NO.        | DESCRIPTION                                                                       | QTY. |
|------|-----------------|-----------------------------------------------------------------------------------|------|
|      | 146910          | FRAME ASSEMBLY 835AG-S26 TANDEM                                                   |      |
|      | 146911          | FRAME ASSEMBLY 835AG-R26 TANDEM                                                   |      |
|      | 146912          | FRAME ASSEMBLY 835AG-R27 TRIPLE                                                   |      |
|      | 146913          | FRAME ASSEMBLY 83AG-27 TANDEM                                                     |      |
|      | 146914          | FRAME ASSEMBLY 835AG-30                                                           |      |
|      | 146918          | FRAME ASSEMBLY 835AG-26-53                                                        |      |
| 1    | 1-510-010001    | NUT, FLANGE HEAD SERR 3/8-16                                                      | 8    |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                                          | 4    |
| 3    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5                                                | 4    |
| 4    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5                                            | 8    |
| 5    | 1-861-010032-11 | WASHER, FLAT 3/8W                                                                 | 7    |
| 6    | 101528          | ELBOW, BR PIPE STR                                                                | 4    |
| 7    | 105132          | SHIELD, TAIL LIGHT                                                                | 2    |
| 8    | 110618          | SUSPENSION FASTENER, RLU 250-9-4 (SEE PAGE 1-35)                                  | 1    |
| 9    | 110622          | SUSPENSION FASTENER, RLU 250 FMT(SEE PAGE 1-37)                                   | 1    |
| 10   | 115752          | AXLE WELDMENT 2516 SPG 79 FRT                                                     | 1    |
|      | 115756          | AXLE WELDMENT 2516 SPG 79 CTR                                                     | 1    |
|      | 115757          | AXLE WELDMENT 2516 SER 79 REAR                                                    | 1    |
|      | 138961          | AXLE WELDMENT 2516 SPG 79 FMT 79                                                  | 1    |
|      | 138962          | AXLE WELDMENT 2516 SPG 79 FMT 79<br>(FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-43) | 1    |
| 11   | 129874          | FRAME WELDMENT 835AG-S26 TANDEM                                                   | 1    |
|      | 129857          | FRAME WELDMENT 835AG-R26 TANDEM                                                   | 1    |
|      | 129293          | FRAME WELDMENT 835AG-R27 TRIPLE                                                   | 1    |
|      | 127844          | FRAME WELDMENT 83AG-27 TANDEM                                                     | 1    |
|      | 120819          | FRAME WELDMENT 835AG-30                                                           | 1    |
|      | 146936          | FRAME WELDMENT 835AG-26-53                                                        | 1    |
| 12   | 121355          | ELBOW, 90                                                                         | 4    |
| 13   | 142445          | HOSE ASSEMBLY, GREASE 1/4 X 102                                                   | 2    |
| 14   | 142446          | HOSE ASSEMBLY, GREASE 1/4 X 118                                                   | 4    |
| 15   | 142545          | NUT, HEX JAM 7/16-20                                                              | 12   |
| 16   | 142553          | DECAL, GREASE TRAILER                                                             | 2    |
| 17   | 146922          | BRACKET, BULKHEAD GREASE LINE                                                     | 2    |
| 18   | 146924          | HOSE ASSEMBLY, GREASE 1/4 X 36                                                    | 6    |
| 19   | 2021-2-4        | ADAPTER, STR                                                                      | 4    |
| 20   | 2024-2-4S       | ADAPTER, ELBOW                                                                    | 8    |
| 21   | 3-485-010001    | MUD FLAP 21"                                                                      | 2    |
| 22   | 3-654-010129-1  | SCREW, TORX FLOOR 5/16                                                            | AR   |
| 23   | RWD34999        | DECK, WOOD TRACK                                                                  | AR   |
| 24   | 142451          | HOSE ASSEMBLY, GREASE 1/4 X 156                                                   | 2    |
| 25   | 144614          | HOSE ASSEMBLY, GREASE 1/4 X 172                                                   | 6    |



**Figure 1-16 Gooseneck Air System**

## GOOSENECK AIR SYSTEM

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 1    | 1-297-010004-04 | FITTING, BRASS PIPE ADAPTER            | 1    |
| 2    | 1-297-010007-05 | FITTING, AIR                           | 1    |
| 3    | 1-297-010007-06 | FITTING, AIR                           | 1    |
| 4    | 1-297-010008-05 | FITTING, AIR 90                        | 4    |
| 5    | 1-297-010008-07 | FITTING, AIR 90                        | 2    |
| 6    | 1-297-010008-18 | FITTING, AIR 90                        | 1    |
| 7    | 1-297-010008-20 | FITTING, AIR 90                        | 2    |
| 8    | 1-297-010009-03 | FITTING, AIR PIPE TEE                  | 1    |
| 9    | 1-297-010013-11 | FITTING, AIR 45 EL                     | 1    |
| 10   | 1-297-010015-06 | FITTING, AIR, BRASS TEE                | 1    |
| 11   | 1-297-010018-02 | FITTING, BRASS PIPE ST TEE             | 1    |
| 12   | 1-297-010020-02 | FITTING, AIR ANCHOR CL NIP             | 1    |
| 13   | 1-297-010022-02 | FITTING, AIR ANCHOR COUPLING           | 1    |
| 14   | 1-297-010033-03 | FITTING, BRASS PLUG HEX                | 1    |
| 15   | 1-384-010038056 | HOSE, AIR 3/8 X 56                     | 1    |
| 16   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB               | 2    |
| 17   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5 | 2    |
| 18   | 1-833-010001    | TUBING, NYLON 1/4                      | AR   |
| 19   | 1-833-010002    | TUBING, NYLON 3/8                      | AR   |
| 20   | 105212          | CARRIER WELDMENT                       | REF  |
| 21   | 107887          | VALVE, AIR PUSH BUTTON                 | 2    |
| 22   | 108801          | GLAD HAND, RED AIR                     | 1    |
| 23   | 108802          | GLAD HAND, BLUE AIR                    | 1    |
| 24   | 117838          | GLAD HAND W/ SHUTOFF EMERGENCY         | 1    |
| 25   | 117839          | GLAD HAND W/ SHUTOFF SERVICE           | 1    |
| 26   | -----           | GOOSENECK WELDMENT                     | REF  |
| 27   | 3-238-010007    | CYLINDER, AIR 1-3/4 BORE               | 2    |
| 28   | 55B61           | FRAME UNION                            | 2    |
| 29   | 55B61-6         | TAG EMERGENCY LINE                     | 1    |
| 30   | 55B61-7         | TAG SERVICE LINE                       | 1    |
| 31   | 905-54-107      | BRAKE PROTECTION VALVE                 | 1    |

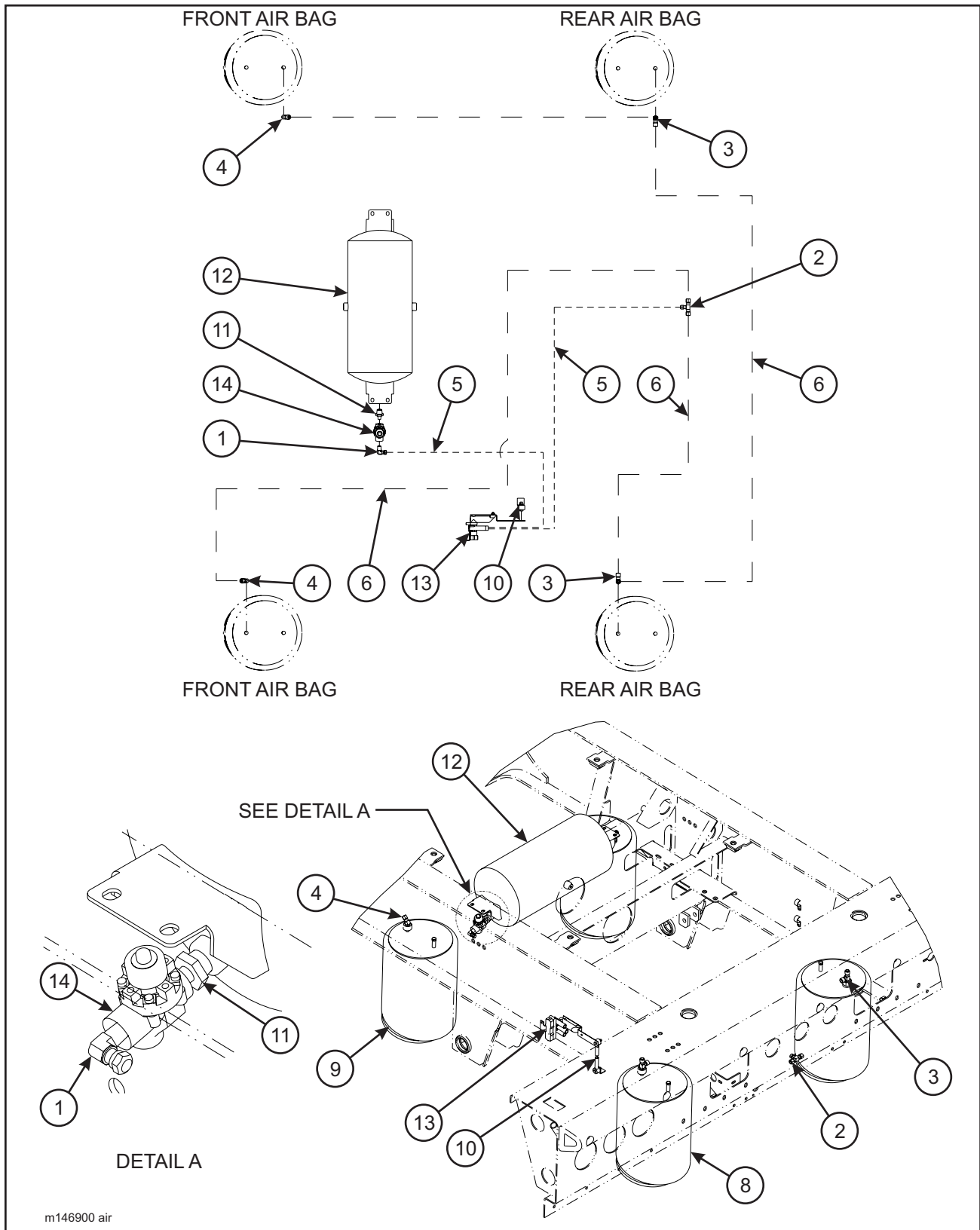
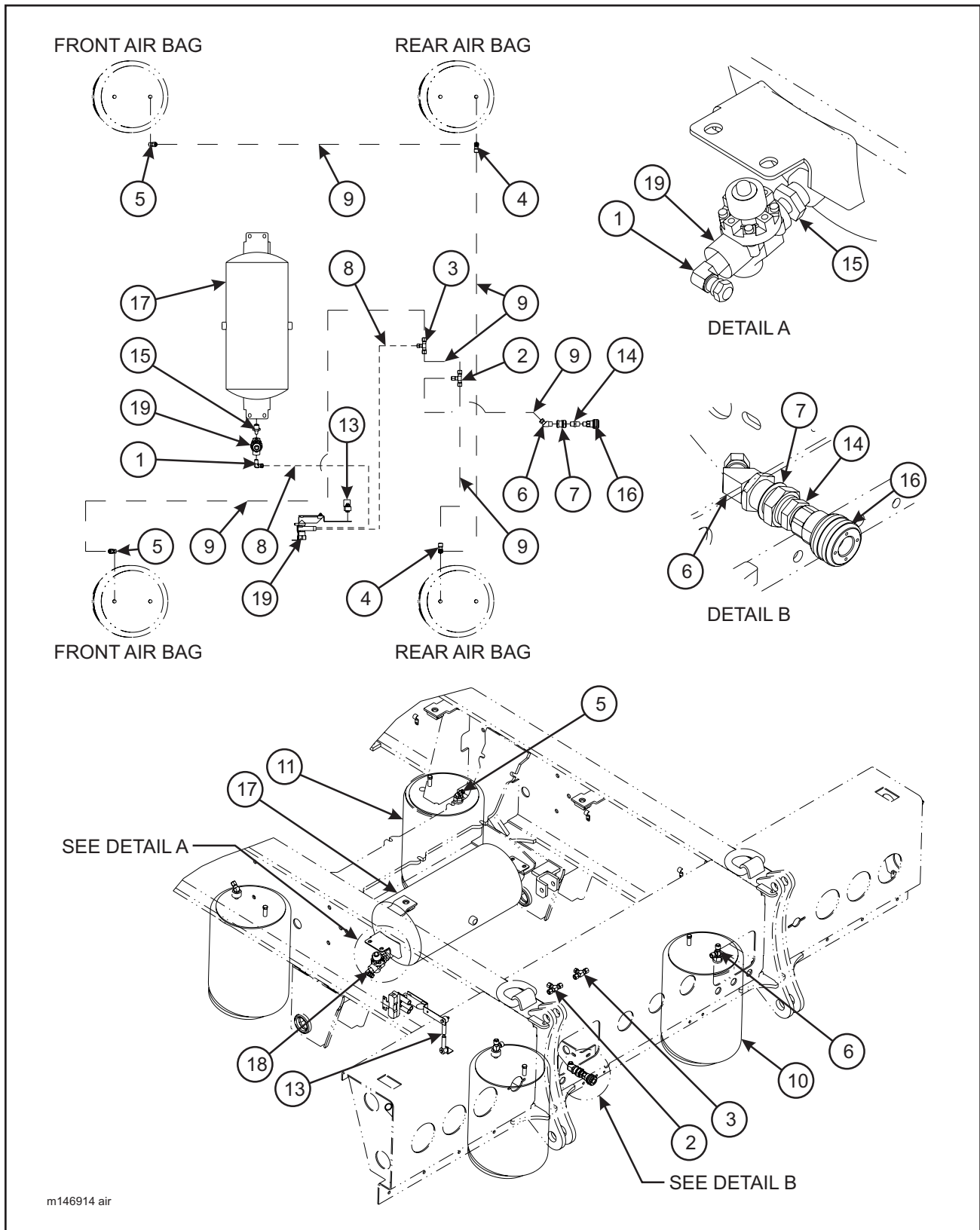


Figure 1-17 Frame Assembly - Air Ride Suspension (825B)

## FRAME ASSEMBLY - AIR RIDE SUSPENSION (825B)

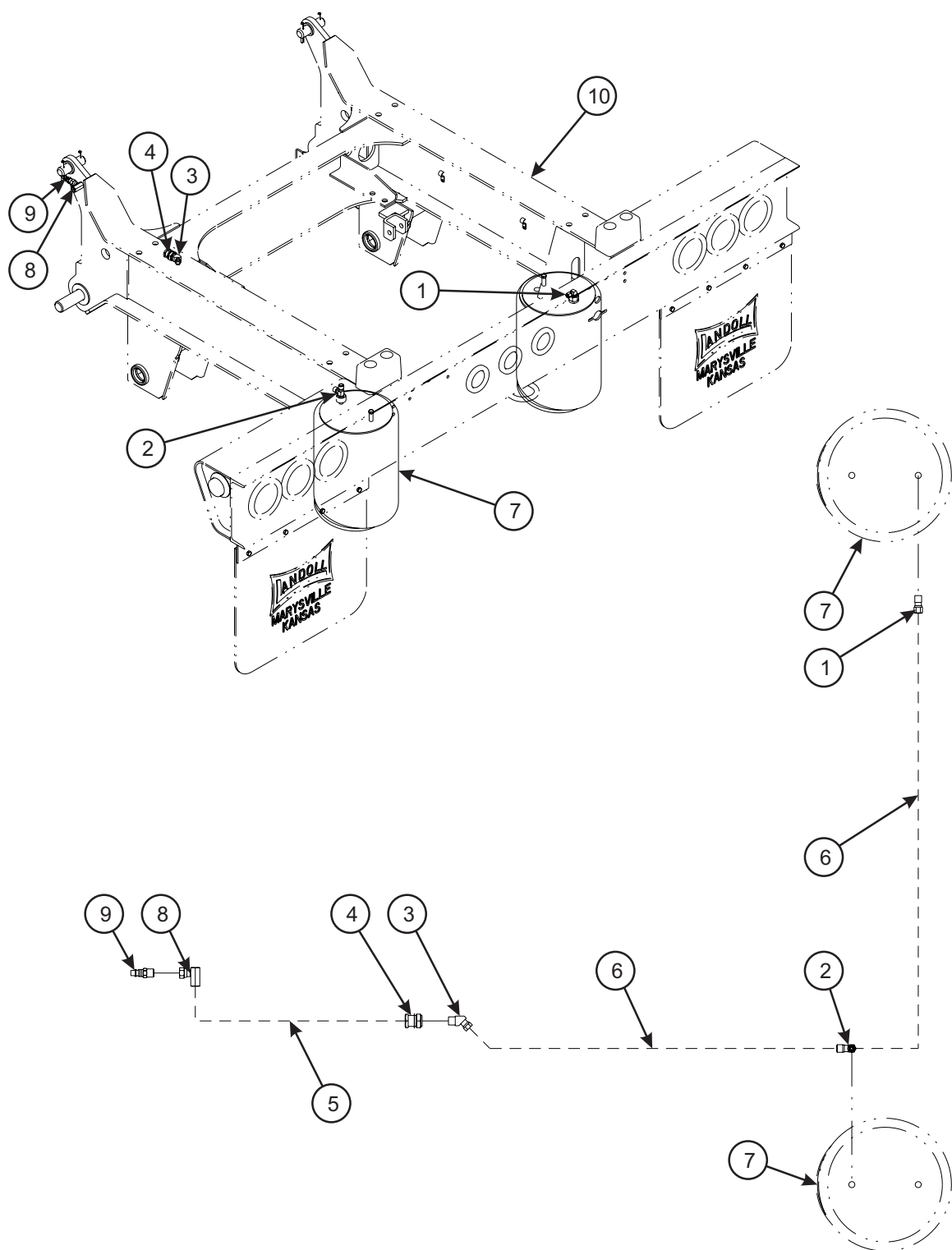
| ITEM | PART NO.        | DESCRIPTION                                                  | QTY. |
|------|-----------------|--------------------------------------------------------------|------|
|      | 146901          | FRAME ASSEMBLY 825-23 TANDEM                                 |      |
|      | 146902          | FRAME ASSEMBLY 825-26 TANDEM                                 |      |
|      | 146903          | FRAME ASSEMBLY 825-28 TANDEM                                 |      |
|      | 146904          | FRAME ASSEMBLY 825-30 TANDEM                                 |      |
|      | 146905          | FRAME ASSEMBLY 82530 X-IBM                                   |      |
| 1    | 1-297-010008-07 | FITTING, AIR 90                                              | 1    |
| 2    | 1-297-010010-04 | FITTING, AIR UNION TEE                                       | 1    |
| 3    | 1-297-010011-04 | FITTING, AIR M/RUN TEE                                       | 2    |
| 4    | 1-297-010013-11 | FITTING, AIR 45 EL                                           | 2    |
| 5    | 1-833-010001    | TUBING, NYLON 1/4                                            | AR   |
| 6    | 1-833-010002    | TUBING, NYLON 3/8                                            | AR   |
| 7    | 102732          | AIR CONTROL KIT (INCL ITEMS 10, 13, & 14)<br>(SEE PAGE 1-39) | 1    |
| 8    | 110618          | SUSPENSION FASTENER, RLU 250-9-4 (SEE PAGE 1-35)             | REF  |
| 9    | 110622          | SUSPENSION FASTENER, RLU 250 FMT(SEE PAGE 1-37)              | REF  |
| 10   | 111021          | KIT, SRK-167                                                 | REF  |
| 11   | 2083-8-4S       | NIPPLE 1/4 X 1/2                                             | 1    |
| 12   | 3-780-010002    | TANK, AIR 9.5 X 22.5                                         | 2    |
| 13   | 900-54-007      | HEIGHT CONTROL VALVE                                         | REF  |
| 14   | 905-54-107      | BRAKE PROTECTOR VALVE                                        | REF  |



**Figure 1-18 Frame Assembly - Air Ride Suspension (835B)**

## FRAME ASSEMBLY - AIR RIDE SUSPENSION (835B)

| ITEM | PART NO.        | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
|      | 146910          | FRAME ASSEMBLY 835AG-S26 TANDEM                  |      |
|      | 146911          | FRAME ASSEMBLY 835AG-R26 TANDEM                  |      |
|      | 146912          | FRAME ASSEMBLY 835AG-R27 TANDEM                  |      |
|      | 146913          | FRAME ASSEMBLY 83AG-27 TANDEM                    |      |
|      | 146914          | FRAME ASSEMBLY 835AG-30                          |      |
|      | 146918          | FRAME ASSEMBLY 835AG-26-53                       |      |
| 1    | 1-297-010008-07 | FITTING, AIR 90                                  | 1    |
| 2    | 1-297-010010-03 | FITTING, AIR UNION TEE                           | 1    |
| 3    | 1-297-010010-04 | FITTING, AIR UNION TEE                           | 1    |
| 4    | 1-297-010011-04 | FITTING, AIR TEE                                 | 2    |
| 5    | 1-297-010013-11 | FITTING, AIR 45 EL                               | 2    |
| 6    | 1-297-010013-12 | FITTING, AIR 45                                  | 1    |
| 7    | 1-297-010022-03 | FITTING, AIR                                     | 2    |
| 8    | 1-833-010001    | TUBING, NYLON 1/4                                | AR   |
| 9    | 1-833-010002    | TUBING, NYLON 3/8                                | AR   |
| 10   | 110618          | SUSPENSION FASTENER, RLU 250-9-4 (SEE PAGE 1-35) | 1    |
| 11   | 110622          | SUSPENSION FASTENER, RLU 250 FMT(SEE PAGE 1-37)  | 1    |
| 12   | 102732          | AIR CONTROL KIT (SEE PAGE 1-39)                  | 1    |
| 13   | 111021          | KIT, SRK-167                                     | REF  |
| 14   | 2083-6-6S       | ADAPTER, HYD NIPPLE                              | 1    |
| 15   | 2083-8-4S       | NIPPLE 3/4 X 1/2                                 | 1    |
| 16   | 3-220-010004    | COUPLER, AIR FEMALE                              | 1    |
| 17   | 3-780-010002    | TANK, AIR 9.5 X 22.5                             | 2    |
| 18   | 900-54-007      | HEIGHT CONTROL VALVE                             | REF  |
| 19   | 905-54-107      | BRAKE PROTECTOR VALVE                            | REF  |



m146919 flip air

Figure 1-19 Flip Assembly - Air Ride Suspension

## FLIP ASSEMBLY - AIR RIDE SUSPENSION

| ITEM | PART NO.        | DESCRIPTION                                    | QTY. |
|------|-----------------|------------------------------------------------|------|
|      | 146919          | FLIP ASSEMBLY 835-60 SPREAD                    |      |
| 1    | 1-297-010008-18 | FITTING, AIR 90                                | 1    |
| 2    | 1-297-010011-04 | FITTING AIR M/RUN TEE                          | 1    |
| 3    | 1-297-010013-12 | FITTING, AIR 45                                | 1    |
| 4    | 1-297-010022-03 | FITTING, AIR ANCHOR COUPLING                   | 1    |
| 5    | 1-384-010038024 | HOSE, AIR 3/8 X 24 (60)                        | 1    |
|      | 1-384-010038038 | HOSE, AIR 3/8 X 38 (72)                        | 1    |
| 6    | 1-833-010002    | TUBING, NYLON 3/8                              | AR   |
| 7    | 110618          | SUSPENSION FASTENER RLU250-9-4 (SEE PAGE 1-35) | 1    |
| 8    | 118-2650-6      | SWIVEL, 90                                     | 4    |
| 9    | 3-220-010005    | COUPLER, AIR MALE                              | 4    |
| 10   | 128739          | FLIP WELDMENT 835-60                           | REF  |
|      |                 | FLIP WELDMENT 72 SPREAD                        | REF  |

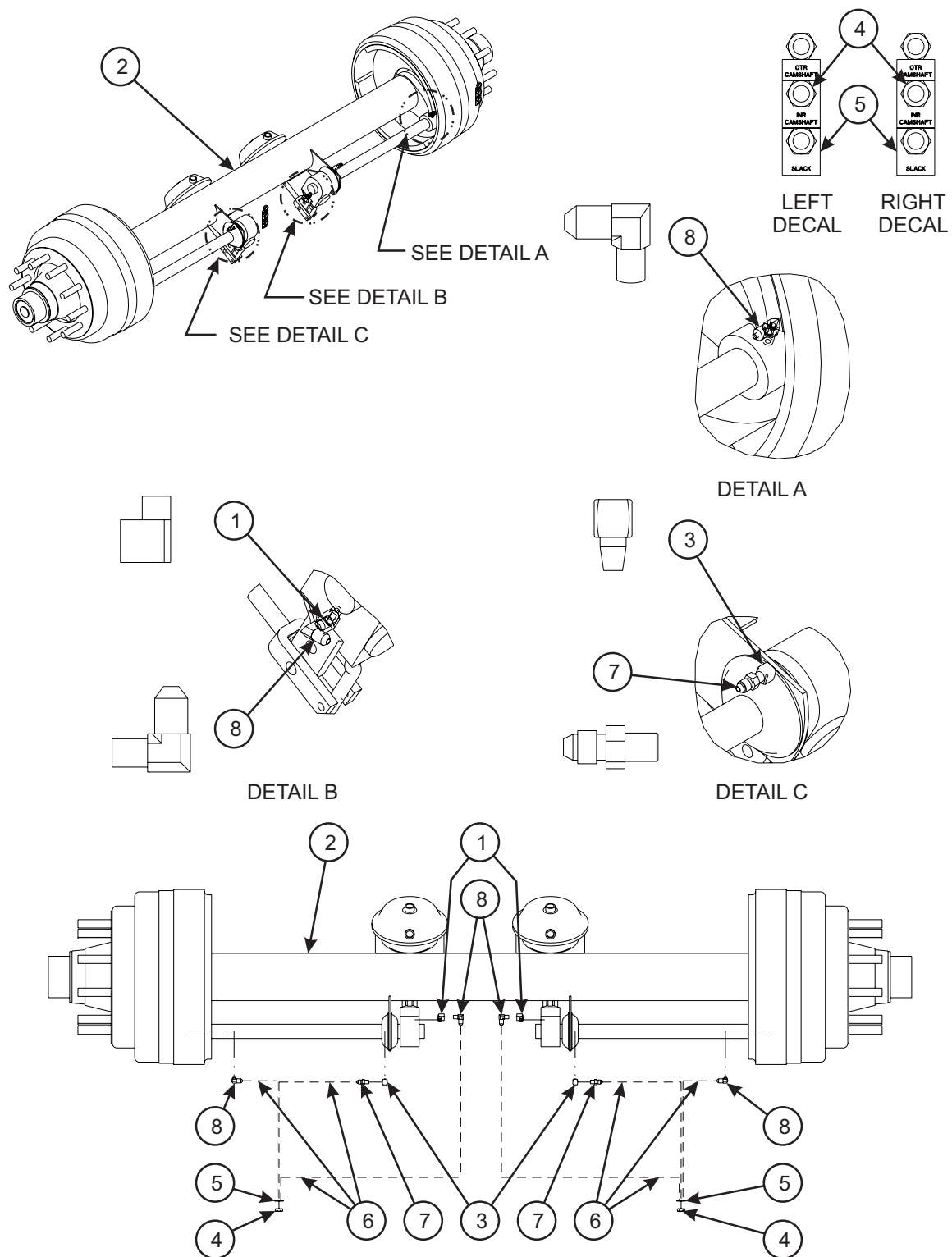
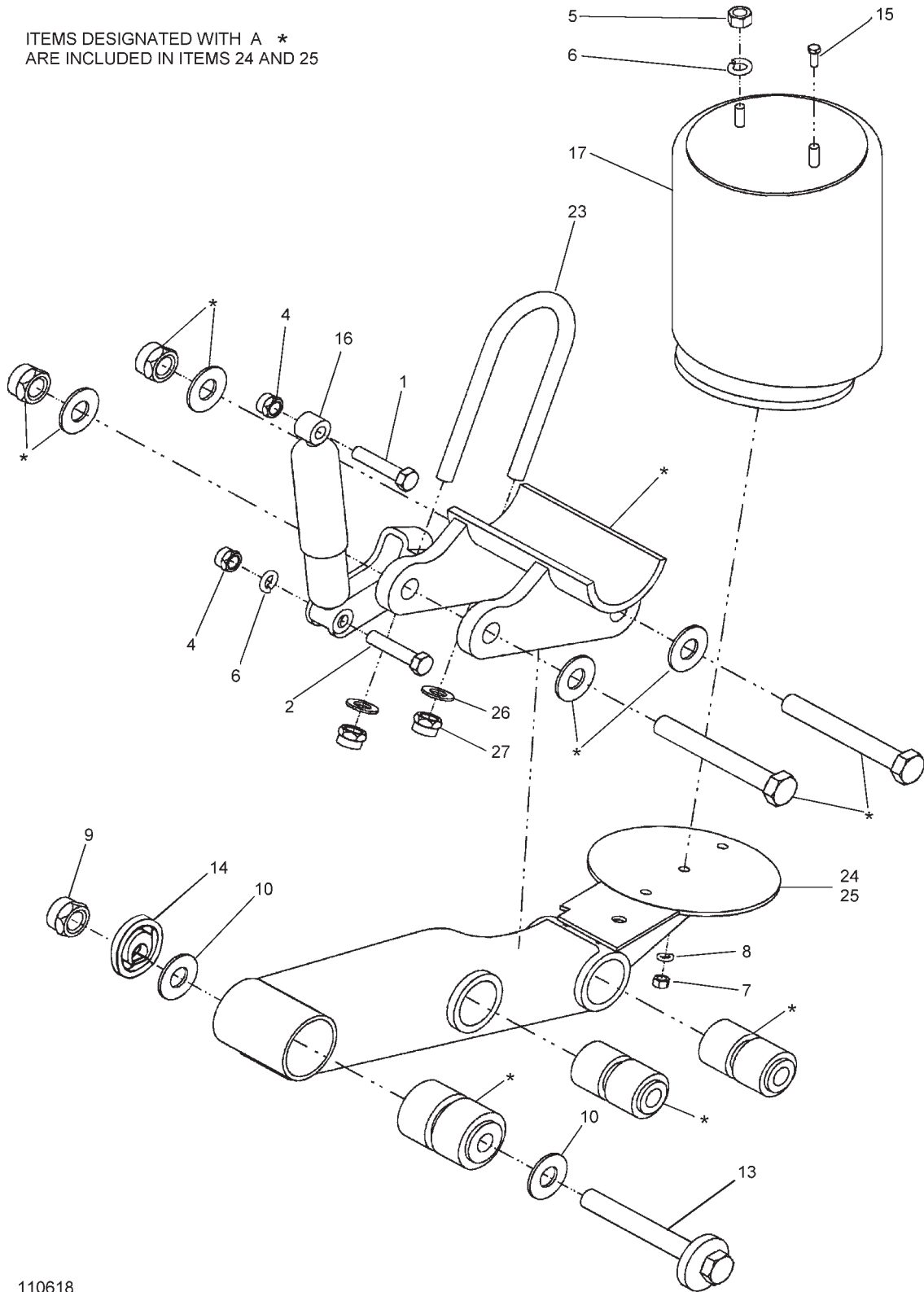


Figure 1-20 Flip Assembly - Air Ride Suspension

## FLIP ASSEMBLY - GREASE SYSTEM

| ITEM | PART NO.  | DESCRIPTION                                                                          | QTY. |
|------|-----------|--------------------------------------------------------------------------------------|------|
|      | 146919    | FLIP ASSEMBLY - GREASE SYSTEM                                                        |      |
| 1    | 101528    | ELBOW, BRASS PIPE STR                                                                | 2    |
| 2    | 115757    | AXLE WELDMENT, RLU 250 D2516-79 SER<br>(FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-43) | 1    |
| 3    | 121355    | ELBOW, 90                                                                            | 2    |
| 4    | 142545    | NUT, HEX JAM 7/16-20 GRB                                                             | 6    |
| 5    | 142553    | DECAL, GREASE TRL U/C                                                                | 2    |
| 6    | 142441    | HOSE ASSEMBLY, GREASE 1/4 X 45                                                       | 6    |
| 7    | 2021-2-4  | ADAPTER, STRAIGHT                                                                    | 2    |
| 8    | 2024-2-4S | ADAPTER, ELBOW                                                                       | 4    |

ITEMS DESIGNATED WITH A \*  
ARE INCLUDED IN ITEMS 24 AND 25



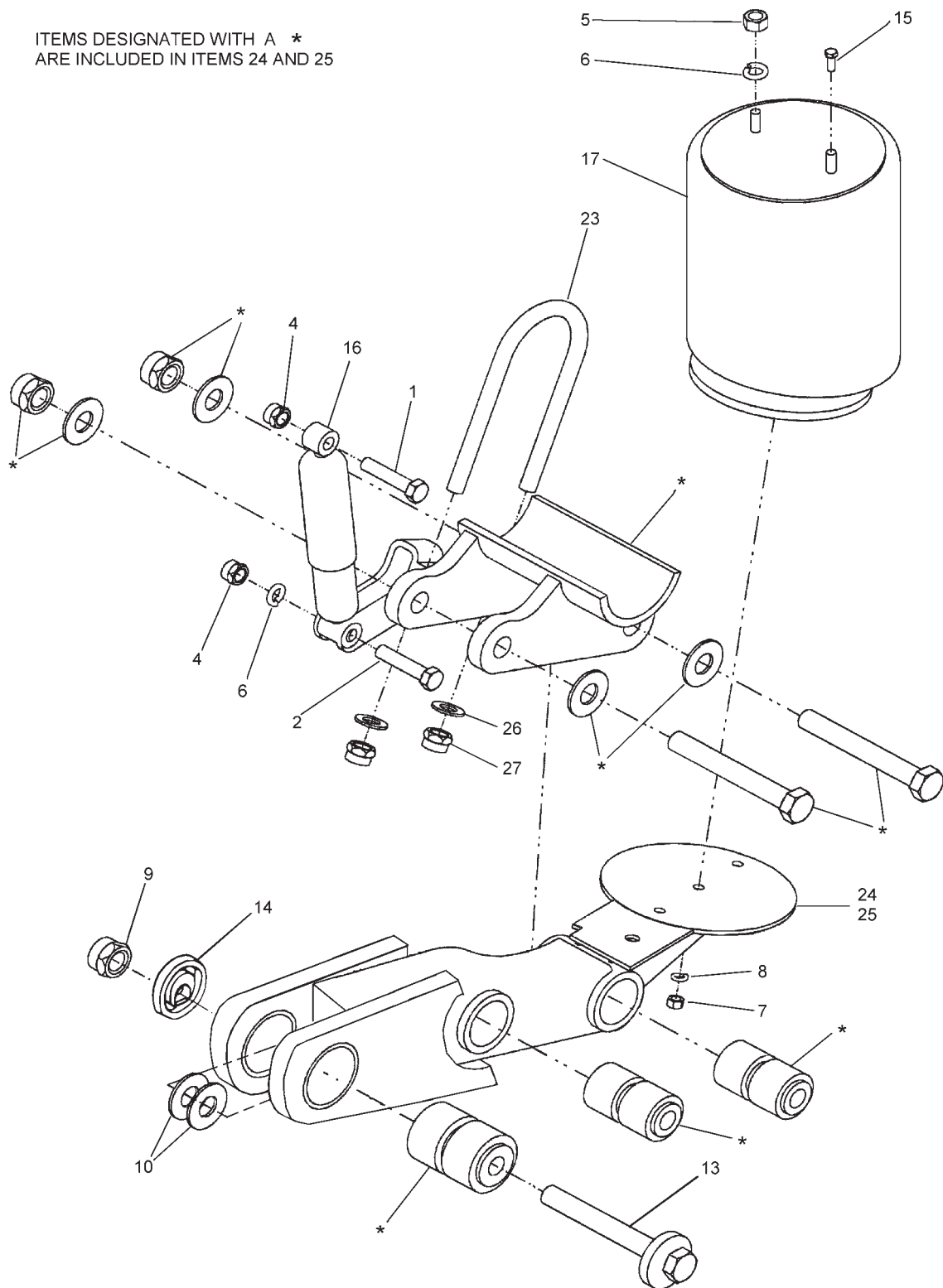
110618

Figure 1-21 Suspension, Fastener RLU-250-9-4

## SUSPENSION HANGER RLU 250-9-4

| ITEM | PART NO.        | DESCRIPTION                                      | QTY |
|------|-----------------|--------------------------------------------------|-----|
|      | 110618          | SUSPENSION, FASTENER RLU 250-9-4                 |     |
|      | 110616          | SUSPENSION, BEAM RLU 250-9-4 (ITEMS 23-28)       |     |
| 1    | 105408          | SCREW, HEX HEAD CAP 3/4-10 X 3-1/2(UPR SHK BRKT) | 2   |
| 2    | 1-654-010061-13 | SCREW, HEX HEAD CAP 3/4-10 X 4 GR5(LWR SHK BRKT) | 2   |
| 4    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB (UPR/LWR SHCK BRACKET)  | 4   |
| 5    | 934-00-149      | NUT, HEX .75-16 GRB (UPPER AIR SPRING)           | 2   |
| 6    | 936-00-077      | WASHER LOCK .78 (UPPER AIR SPRING)               | 2   |
| 7    | 1-512-010007-09 | NUT, HEX 1/2-13 GRB (LOWER AIR SPRING)           | 2   |
| 8    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2 (LOWER AIR SPRING)        | 2   |
| 9    | 934-00-506      | NUT, HEX LOCK 1-1/8-7 GRC (FRAME BRACKET)        | 2   |
| 10   | 111010          | WASHER, FLAT 1.141                               | 4   |
| 13   | 905-08-019      | ALIGNMENT BLOCK ASSEMBLY (FRAME BRACKET)         | 2   |
| 14   | 905-08-238      | ALIGNMENT BLOCK NON-WELD (FRAME BRACKET)         | 2   |
| 15   | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5 (UPR AIR SPG) | 2   |
| 16   | 900-44-162      | SHOCK                                            | 2   |
| 17   | 111036          | AIR SPRING                                       | 2   |
| 19   | 941-00-684      | LITERATURE SPECIFICATIONS NS-65-84 (NOT SHOWN)   | 1   |
| 20   | 941-00-685      | LITERATURE SPECIFICATIONS NS-65-78 (NOT SHOWN)   | 1   |
| 21   | 941-00-648      | LITERATURE FORM 684 (NOT SHOWN)                  | 1   |
| 22   | 941-00-590      | LITERATURE LABEL (NOT SHOWN)                     | 1   |
| 23   | 111033          | U-BOLT .875-9 X 11 GR8                           | 2   |
| 24   | 111030          | BEAM EQUALIZING ASSY W/ AXLE ADAPTER RH          | 1   |
| 25   | 111031          | BEAM EQUALIZING ASSY W/ AXLE ADAPTER LH          | 1   |
| 26   | 936-00-162      | WASHER FLAT .88                                  | 4   |
| 27   | 934-00-498      | NUT, HEX LOCK .875-9 GRC                         | 4   |
| 28   | 941-00-832      | LITERATURE AXLE WELDING (NOT SHOWN)              | 1   |
|      | 110-05-099      | FASTENER KIT (INCL. ITEMS 1-22)                  | 1   |

ITEMS DESIGNATED WITH A \*  
ARE INCLUDED IN ITEMS 24 AND 25



110622

Figure 1-22 Suspension Fastener, AR-80-9 FMT

## SUSPENSION HANGER RLU 250 FMT

| ITEM | PART NO.        | DESCRIPTION                                      | QTY |
|------|-----------------|--------------------------------------------------|-----|
|      | 110622          | SUSPENSION, FASTENER RLU 250 FMT                 |     |
|      | 110620          | SUSPENSION, BEAM RLU 250 FMT (INCL ITEMS 23-28)  |     |
| 1    | 105408          | SCREW, HEX HEAD CAP 3/4-10 X 3-1/2(UPR SHK BRKT) | 2   |
| 2    | 1-654-010061-13 | SCREW, HEX HEAD CAP 3/4-10 X 4 GR5(LWR SHK BRKT) | 2   |
| 4    | 1-512-010005-15 | NUT, HEX LOCK .75-10 GRB (UPR/LWR SHCK BRACKET)  | 4   |
| 5    | 934-00-149      | NUT, HEX .75-16 GRB (UPPER AIR SPRING)           | 2   |
| 6    | 936-00-077      | WASHER, LOCK .78(UPR AIR SPG/LWR SHOCK BRKT)     | 2   |
| 7    | 1-512-010007-09 | NUT, HEX 1/2-13 GRB (LOWER AIR SPRING)           | 2   |
| 8    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2 GRB (LOWER AIR SPRING)    | 2   |
| 9    | 934-00-506      | LOCK NUT 1.125-7 GRC                             | 2   |
| 10   | 111037          | WEAR WASHER 1.125                                | 4   |
| 13   | 111038          | ALIGNMENT BLOCK ASSEMBLY (PIVOT)                 | 2   |
| 14   | 90008186        | ALIGNMENT BLOCK NON-WELD (PIVOT)                 | 2   |
| 15   | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5 (UPR AIR SPG) | 2   |
| 16   | 900-44-162      | SHOCK                                            | 2   |
| 17   | 111036          | AIR SPRING                                       | 2   |
| 20   | 94100687        | LITERATURE SPECIFICATIONS NS-65-84 (NOT SHOWN)   | 1   |
| 21   | 94100790        | LITERATURE LABEL (NOT SHOWN)                     | 1   |
| 23   | 111033          | U-BOLT .875-9 X 11 GR8                           | 2   |
| 24   | *111034         | BEAM, EQUALIZING W/ ADAPTERS RH NON-WELD         | 1   |
| 25   | *111035         | BEAM, EQUALIZING W/ ADAPTERS LH                  | 1   |
| 26   | 936-00-162      | WASHER, FLAT .78                                 | 4   |
| 27   | 934-00-498      | NUT, HEX LOCK .875-9 GRC                         | 4   |
| 28   | 941-00-832      | LITERATURE AXLE WELDING (NOT SHOWN)              | 1   |
|      | 110-05-104      | FASTENER KIT (INCL. ITEMS 1-21)                  | 1   |

\* FOR 835 TRAILER, THE SHOCK MOUNT ON BEAMS GET MODIFIED PER PRINT 115751, USING THE FOLLOWING PARTS.

|                 |                           |   |
|-----------------|---------------------------|---|
| 112488          | GUSSET RLU250 SHOCK FRONT | 2 |
| 112489          | GUSSET RLU250 SHOCK REAR  | 2 |
| 113292          | BRACKET, SHOCK MOUNT      | 2 |
| RRRCF502 X 1.75 | BAR, ROUND 3/8 X 1-3/4    | 2 |



## **AIR CONTROL KIT (USED W/ RLU-250 SUSPENSION)**

| <b>ITEM</b> | <b>PART NO.</b> | <b>DESCRIPTION</b>                      | <b>QTY.</b> |
|-------------|-----------------|-----------------------------------------|-------------|
|             | 102732          | AIR CONTROL KIT NEWAY                   |             |
| 1           | 900 54 007      | HEIGHT CONTROL VALVE                    | 1           |
| 2           | 905 54 107      | AIR PRESSURE PROTECTION VALVE & FILTER  | 1           |
| 3           | 111021          | SRK - 167 KIT (ADJ. LINK ASSY)          | 1           |
| 4           | 1-654-010047-04 | SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5    | 2           |
| 5           | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                | 2           |
| 6           | 941 00 119      | DECAL (OPERATING)                       | 1           |
| 7           | 941 00 466      | HEIGHT CONTROL INSTRUCTIONS (NOT SHOWN) | 1           |

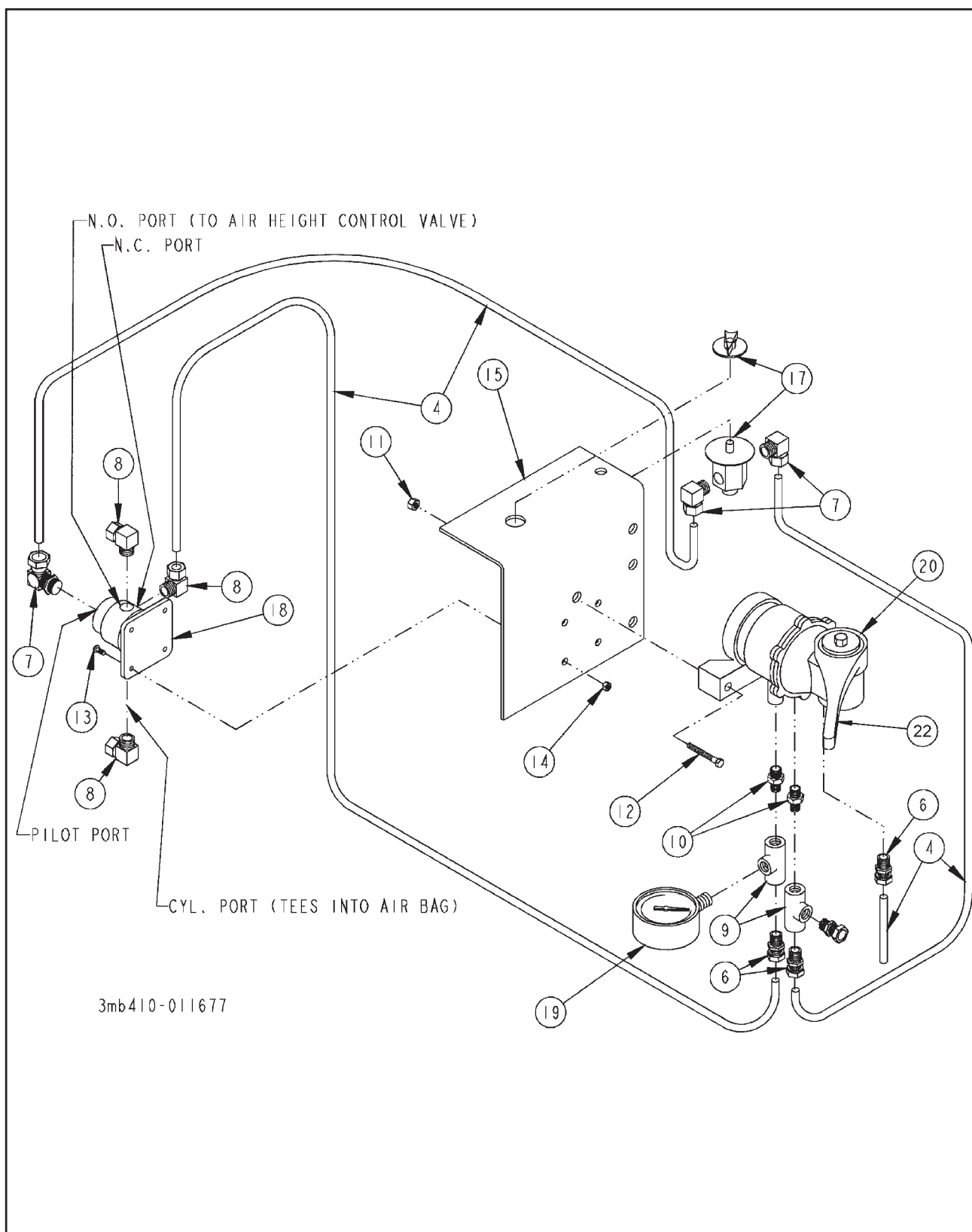


Figure 1-24 Manual Air Height Control Assembly (Option)

## MANUAL AIR HEIGHT CONTROL ASSEMBLY (OPTION)

| ITEM | PART NO.          | DESCRIPTION                                    | QTY. |
|------|-------------------|------------------------------------------------|------|
|      | 112326            | CONTROL ASSEMBLY, AIR R/L                      |      |
| 1    | *1-297-010010-01  | FITTING, AIR UNION TEE 1/4 (NOT SHOWN)         | 1    |
| 2    | **1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB (NOT SHOWN)          | 3    |
| 3    | **1-654-010049-05 | SCREW, HEX HEAD CAP 5/16-18 X 1 GR (NOT SHOWN) | 3    |
| 4    | 1-833-010001      | NYLON TUBING 1/4                               | AR   |
| 5    | **1-861-010032-09 | WASHER, FLAT 5/16 (NOT SHOWN)                  | 3    |
| 6    | 1-297-010007-05   | FITTING, AIR                                   | 2    |
| 7    | 1-297-010008-05   | FITTING, AIR 90                                | 3    |
| 8    | 1-297-010008-07   | FITTING, AIR 90                                | 5    |
| 9    | 1-297-010009-02   | FITTING, AIR PIPE TEE 1/4                      | 2    |
| 10   | 1-297-010020-02   | FITTING, BRASS PIPE                            | 2    |
| 11   | 1-512-010005-03   | NUT, HEX LOCK 5/16-18 GRB                      | 2    |
| 12   | 1-654-010049-06   | SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5        | 2    |
| 13   | 1-656-010003051   | SCREW, RD HEAD MACH #10-24 X 3/4               | 4    |
| 14   | 1-512-010003-06   | NUT, HEX LOCK 10-24                            | 4    |
| 15   | 112324            | PLATE, MOUNTING AIR LIFT KIT                   | 1    |
| 16   | 112325            | AIR CONTROL KIT MANUAL (INCL ITEMS 17-21)      | 1    |
| 17   | 900-54-088        | VALVE, MANUALLY OPERATED                       | 1    |
|      | 900-54-211        | KNOB FOR 900-54-088                            | 1    |
| 18   | 900-54-079        | PILOT VALVE                                    | 1    |
| 19   | 900-54-280        | AIR GAUGE                                      | 1    |
| 20   | 900-54-082        | HAND CONTROL VALVE                             | 1    |
| 21   | 900-44-206        | DECAL (NOT SHOWN)                              | 1    |
| 22   | 105390            | HANDLE REPLACEMENT MANUAL HEIGHT CONTROL       | 1    |

\* USED TO CONNECT HEIGHT CONTROL ASSEMBLY TO AIR RIDE SYSTEM

\*\* USED TO CONNECT HEIGHT CONTROL ASSEMBLY TO THE TRAILER FRAME

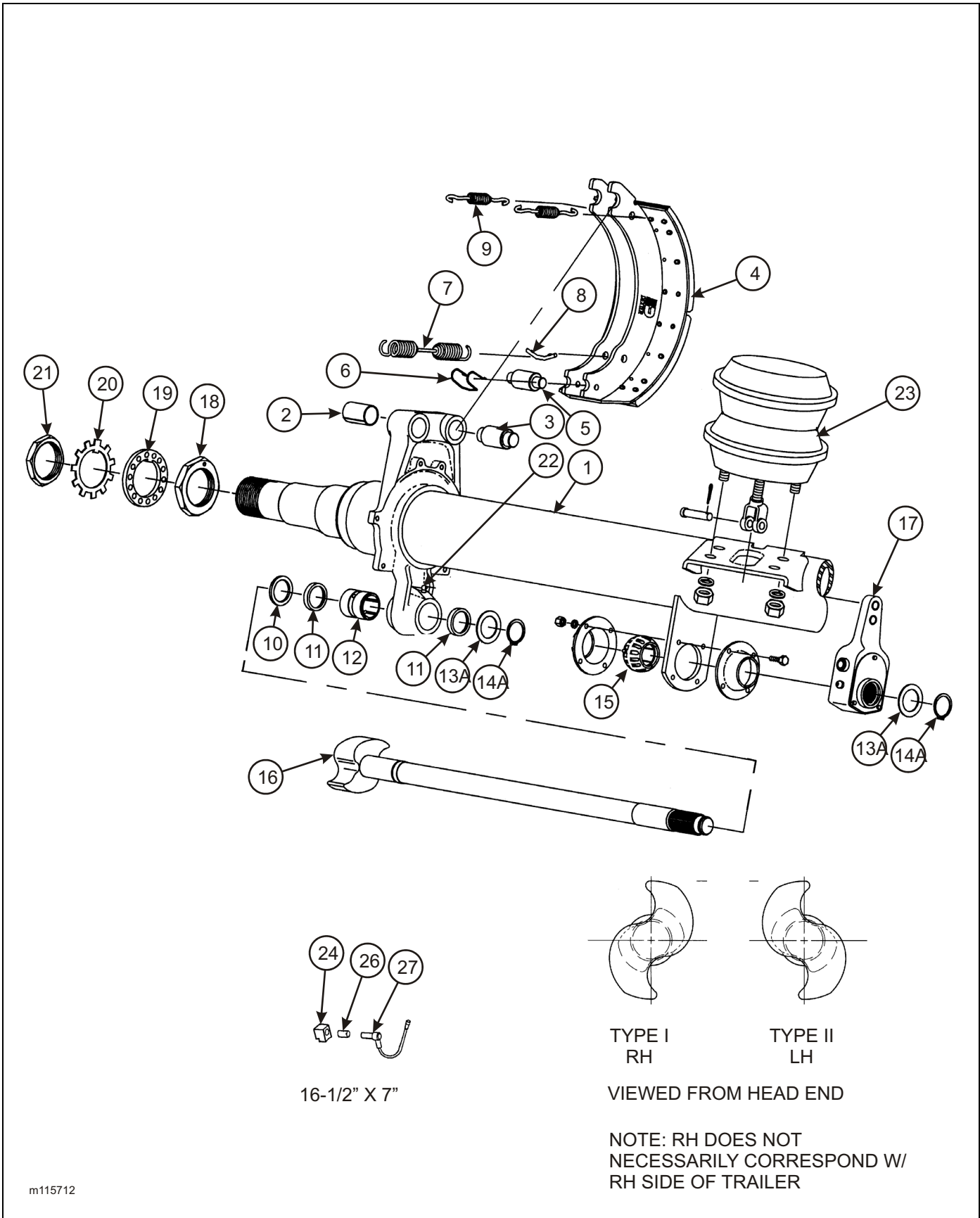


Figure 1-25 Axle and Brake Assembly

## AXLE AND BRAKE ITEMS (DEXTER) (16-1/2" x 7")

| ITEM   | PART NO.     | REFERENCE NO. | DESCRIPTION                                           | QTY. |
|--------|--------------|---------------|-------------------------------------------------------|------|
|        | 115717       |               | AXLE 79" TRK, 16.5 X 7 SPG BRK 25K                    |      |
|        | 115722       |               | AXLE 79" TRK, 16.5 X 7 SER BRK 25K                    |      |
|        | 138956       |               | AXLE 79" TRK, 16.5 X 7 SPG BRK 25K TIS                |      |
|        | 138960       |               | AXLE 79" TRK, 16.5 X 7 SER BRK 25K TIS                |      |
| 1A*    | -----        | D-2H16        | BEAM W/ BRACKETS                                      | 1    |
|        | **K71-136-00 | **K71-136-00  | BRAKE SHOE HARDWARE KIT (ITEMS 2, 3, 5, 6, 7, 8, & 9) |      |
| 2**    | -----        | 014-068-00    | BUSHING, SPIDER ANCHOR PIN                            | 4    |
| 3**    | -----        | 056-017-00    | PIN, ANCHOR                                           | 4    |
| 4      | 040-180-00   | 040-180-00    | SHOE AND LINING ASSEMBLY                              | 4    |
| 4A     | -----        | 041-058-01    | LINING - BRAKE BLOCK CAM                              | 2    |
| 4B     | -----        | 041-059-01    | LINING - BRAKE BLOCK ANCHOR                           | 4    |
|        | -----        | K71-138-00    | BRAKE BLOCK KIT                                       | 4    |
| 5**    | 014-065-00   | 014-065-00    | ROLLER                                                | 4    |
| 6**    | 071-122-00   | 071-122-00    | RETAINER, ROLLER                                      | 4    |
| 7**    | 046-096-00   | 046-096-00    | SPRING, SHOE RETRACTOR                                | 2    |
| 8**    | 056-018-00   | 056-018-00    | RETAINER PIN RETRACTOR SPRING                         | 4    |
| 9**    | 046-097-00   | 046-097-00    | KEEPER SPRING                                         | 4    |
|        | 138090       | ***K71-135-00 | CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)               |      |
| 10***  | 005-096-00   | 005-096-00    | WASHER CAMSHAFT                                       | 2    |
| 11***  | 010-052-00   | 010-052-00    | SEAL GREASE                                           | 4    |
| 12***  | -----        | 014-056-00    | BUSHING CAMSHAFT SPIDER                               | 2    |
| 13A*** | -----        | 005-134-00    | WASHER CAMSHAFT END                                   | 2    |
| 14A*** | 069-078-00   | 069-078-00    | RETAINER, CAMSHAFT END                                | 2    |
| 15***  | -----        | 014-058-00    | BUSHING CAMSHAFT SUPPORT                              | 2    |
| 16     | 137461       | 034-192-08    | CAMSHAFT, 25" LH                                      | 1    |
|        | 137485       | 034-193-08    | CAMSHAFT, 25" RH                                      | 1    |
| 17     | 139383       | 055-040-98    | SLACK ADJUSTER, AUTOMATIC                             | 2    |
| 18     | 006-114-00   | 006-114-00    | NUT, INNER SPINDLE                                    | 2    |
| 19     | 005-098-00   | 005-098-00    | WASHER, SPINDLE LOCK                                  | 2    |
| 20     | 005-099-00   | 005-099-00    | WASHER, TABBED SPINDLE LOCK                           | 2    |
| 21     | 006-115-00   | 006-115-00    | NUT, OUTER SPINDLE                                    | 2    |
| 22***  | -----        | 061-006-00    | FITTING, GREASE 45°                                   | 2    |
| 23     | 034-058-01   | 034-058-01    | AIR CHAMBER, SPRING BRAKE                             | 4    |
|        | 034-057-01   | 034-057-01    | AIR CHAMBER, SERVICE BRAKE                            | 2    |
| 24     | 103805       | 024-100-00    | SENSOR BLOCK                                          | 2    |
| 26     | 144979       | 097-002-00    | RETAINER CLIP                                         | 2    |
| 27     | 128550       | 097-003-00    | ABS SENSOR, 90                                        | 2    |

\* WHEN ORDERING THE BEAM WITH SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, AND CAMSHAFT LENGTH.

\*\* THESE PARTS ARE AVAILABLE AS PART OF THE BRAKE SHOE REPAIR KIT LISTED

\*\*\* THESE PARTS ARE AVAILABLE AS PART OF THE CAMSHAFT REPAIR KIT LISTED

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 2-89

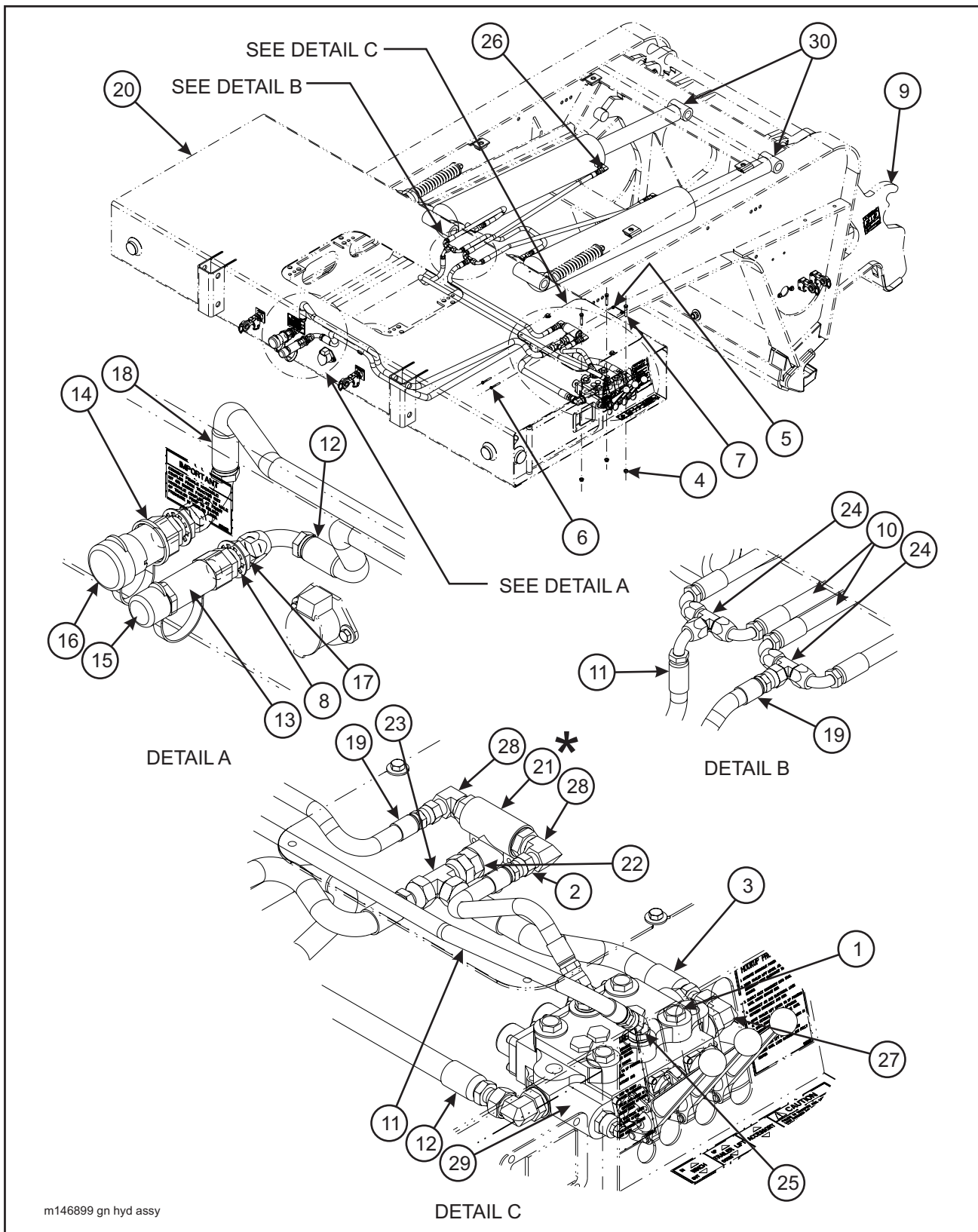


Figure 1-26 Gooseneck Hydraulic System (825B)

## GOOSENECK HYDRAULIC SYSTEM (825B)

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 146899          | GOOSENECK ASSEMBLY                         |      |
| 1    | 1-007-010025    | PLUG, O-RING 3/4-16                        | 4    |
| 2    | 1-397-010301024 | HOSE ASSEMBLY 1/2 X 24                     | 1    |
| 3    | 1-397-010304025 | HOSE ASSEMBLY 3/4 X 25                     | 1    |
| 4    | 1-510-010001    | NUT, FLANGE HEAD SERRATED 3/8-16           | 3    |
| 5    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20                       | 2    |
| 6    | 1-654-010047-10 | SCREW, HEX HEAD CAP 1/4-20 X 2 GR5         | 2    |
| 7    | 1-654-010051-09 | SCREW, HEX HEAD CAP 3/8-16 X 2 GR5         | 3    |
| 8    | 1-861-010059-21 | WASHER, LOCKING INT TOOTH 1-1/8            | 2    |
| 9    | 105212          | CARRIER WELDMENT                           | REF  |
| 10   | 105274          | HOSE ASSEMBLY 1/2 X 34                     | 2    |
| 11   | 105275          | HOSE ASSEMBLY 1/2 X 45                     | 3    |
| 12   | 105277          | HOSE ASSEMBLY 3/4 X 78                     | 1    |
| 13   | 105479          | COUPLER, FLAT FACE MALE NOSE               | 1    |
| 14   | 105480          | COUPLER, FLAT FACE FEMALE BODY             | 1    |
| 15   | 105481          | COUPLER, DUST CAP MALE                     | 1    |
| 16   | 105482          | COUPLER, DUST CAP FEMALE                   | 1    |
| 17   | 105483          | ADAPTER, BULKHEAD                          | 2    |
| 18   | 109166          | HOSE ASSEMBLY 3/4 X 60                     | 1    |
| 19   | 125872          | HOSE ASSEMBLY 1/2 X 54                     | 1    |
| 20   | 131900          | GOOSENECK WELDMENT                         | REF  |
| 21   | *138712         | VALVE, HYDRAULIC PRESSURE RELIEF 1500      | 1    |
| 22   | 202702-12-12S   | ADAPTER, STR                               | 1    |
| 23   | 203102-12-12S   | ADAPTER TEE SWIVEL                         | 1    |
| 24   | 2033-8-8S       | ADAPTER TEE                                | 2    |
| 25   | 2061-8-8S       | ADAPTER, 45                                | 2    |
| 26   | 2062-10-8S      | ADAPTER, 90                                | 4    |
| 27   | 2062-12-12S     | ADAPTER, 90                                | 2    |
| 28   | 2062-12-8S      | ADAPTER, 90                                | 2    |
| 29   | 3-846-010159    | VALVE, 3 SPOOL 2500 PSI (SEE PAGE 1-51)    | 1    |
| 30   | 138711          | CYLINDER, HYDRAULIC 6 X 30 (SEE PAGE 1-49) | REF  |

\* SET AT 500 PSI TO PREVENT LIFT ARM FROM OVERLOADING REAR SUPPORT X-MEMBER OR TRACTOR

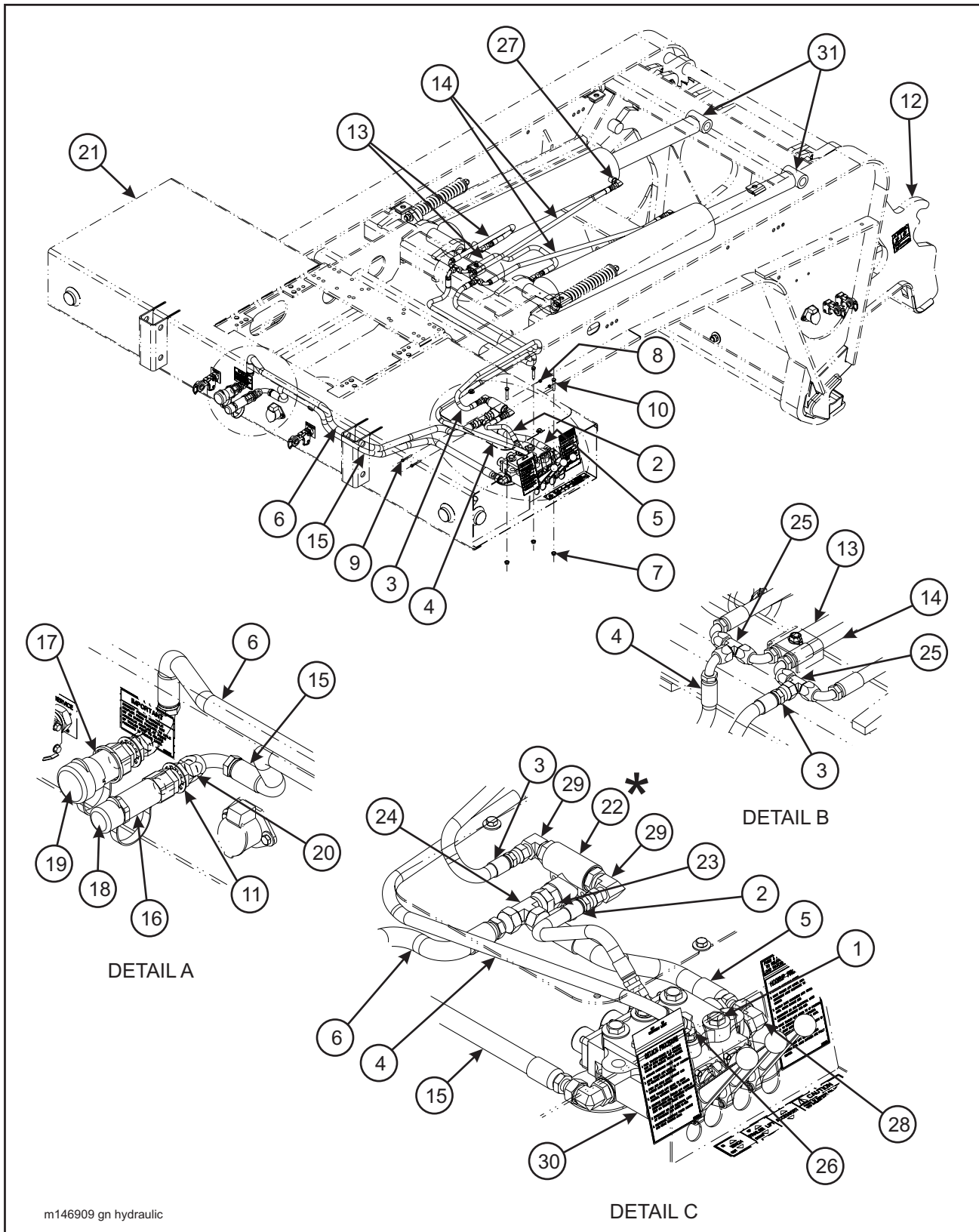
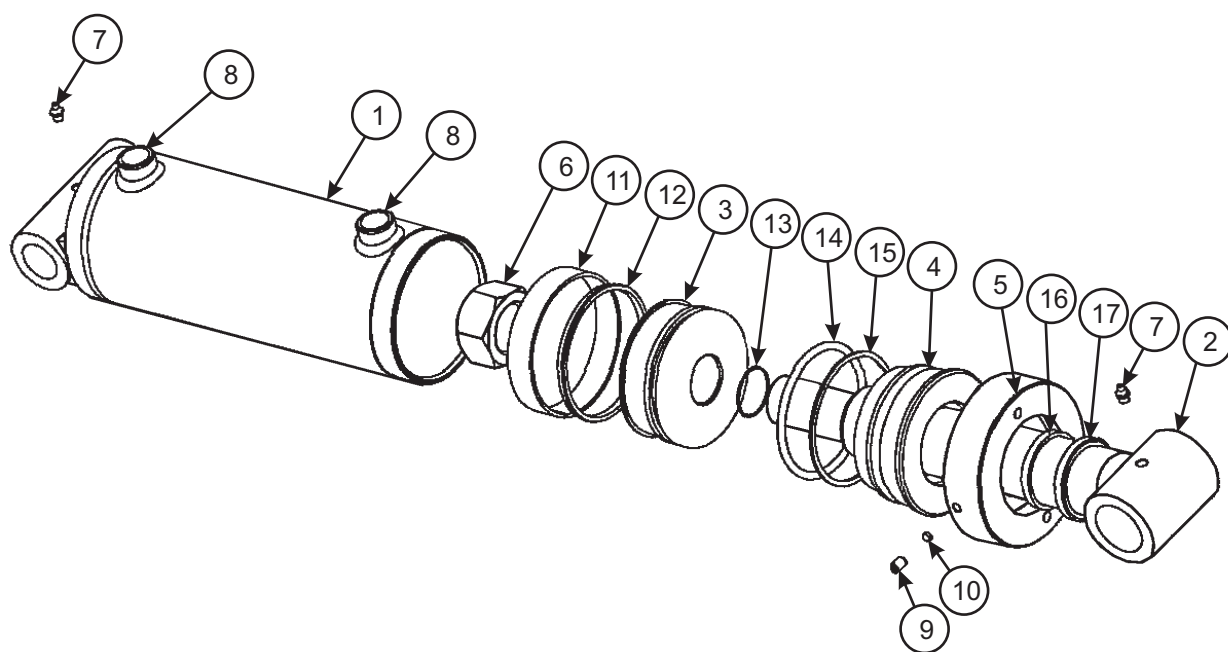


Figure 1-27 Gooseneck Hydraulic System (835B)

## GOOSENECK HYDRAULIC SYSTEM (835B)

| ITEM | PART NO.         | DESCRIPTION                                | QTY. |
|------|------------------|--------------------------------------------|------|
|      | 146909           | GOOSENECK ASSEMBLY                         |      |
| 1    | 1-007-010025     | PLUG, O-RING 3/4-16                        | 4    |
| 2    | 1-397-010301024  | HOSE ASSEMBLY 1/2 X 24                     | 1    |
| 3    | 1-397-010301054  | HOSE ASSEMBLY 1/2 X 54                     | 1    |
| 4    | 1-397-010302078  | HOSE ASSEMBLY 1/2 X 78                     | 1    |
| 5    | 1-397-010304025  | HOSE ASSEMBLY 3/4 X 25                     | 1    |
| 6    | 1-397-0100305060 | HOSE ASSEMBLY 3/4 X 60                     | 1    |
| 7    | 1-510-010001     | NUT, FLANGE HEAD SERRATED 3/8-16           | 3    |
| 8    | 1-512-010005-01  | NUT, HEX LOCK 1/4-20                       | 2    |
| 9    | 1-654-010047-10  | SCREW, HEX HEAD CAP 1/4-20 X 2 GR5         | 2    |
| 10   | 1-654-010051-09  | SCREW, HEX HEAD CAP 3/8-16 X 2 GR5         | 3    |
| 11   | 1-861-010059-21  | WASHER, LOCKING INT TOOTH 1-1/8            | 2    |
| 12   | 105212           | CARRIER WELDMENT                           | REF  |
| 13   | 105274           | HOSE ASSEMBLY 1/2 X 34                     | 2    |
| 14   | 105275           | HOSE ASSEMBLY 1/2 X 45                     | 3    |
| 15   | 105276           | HOSE ASSEMBLY 3/4 X 52                     | 1    |
| 16   | 105479           | COUPLER, FLAT FACE MALE NOSE               | 1    |
| 17   | 105480           | COUPLER, FLAT FACE FEMALE BODY             | 1    |
| 18   | 105481           | COUPLER, DUST CAP MALE                     | 1    |
| 19   | 105482           | COUPLER, DUST CAP FEMALE                   | 1    |
| 20   | 105483           | ADAPTER, BULKHEAD                          | 2    |
| 21   | 128709           | GOOSENECK WELDMENT                         | REF  |
| 22   | *138712          | VALVE, HYDRAULIC PRESSURE RELIEF 1500      | 1    |
| 23   | 202702-12-12S    | ADAPTER, STR                               | 1    |
| 24   | 203102-12-12S    | ADAPTER TEE SWIVEL                         | 1    |
| 25   | 2033-8-8S        | ADAPTER TEE                                | 2    |
| 26   | 2061-8-8S        | ADAPTER, 45                                | 2    |
| 27   | 2062-10-8S       | ADAPTER, 90                                | 4    |
| 28   | 2062-12-12S      | ADAPTER, 90                                | 2    |
| 29   | 2062-12-8S       | ADAPTER, 90                                | 2    |
| 30   | 3-846-010159     | VALVE, 3 SPOOL 2500 PSI (SEE PAGE 1-51)    | 1    |
| 31   | 138711           | CYLINDER, HYDRAULIC 6 X 30 (SEE PAGE 1-49) | REF  |

\* SET AT 500 PSI TO PREVENT LIFT ARM FROM OVERLOADING REAR SUPPORT X-MEMBER OR TRACTOR



m138711

Figure 1-28 Cylinder 6 X 30

## CYLINDER 6 X 30

| ITEM | PART NO.   | DESCRIPTION                             | QTY. |
|------|------------|-----------------------------------------|------|
|      | 138711     | CYLINDER HYDRAULIC 6 X 30               |      |
| 1    | 148137     | BUTT AND TUBE ASSEMBLY                  | 1    |
| 2    | 140319     | PISTON ROD ASSEMBLY                     | 1    |
| 3    | 148138     | PISTON                                  | 1    |
| 4    | 148139     | GLAND                                   | 1    |
| 5    | 148140     | GLAND CAP                               | 1    |
| 6    | 116606     | LOCKNUT                                 | 1    |
| 7    | 148141     | GREASE ZERK                             | 2    |
| 8    | 148142     | PORT PLUG                               | 2    |
| 9    | 148143     | SET SCREW                               | 1    |
| 10   | 148144     | NYLON LOCK                              | 1    |
| 11*  | ----       | BEARING RING                            | 1    |
| 12*  | ----       | CROWN SEAL                              | 1    |
| 13*  | ----       | O-RING                                  | 1    |
| 14*  | ----       | O-RING                                  | 1    |
| 15*  | ----       | BU-WASHER                               | 1    |
| 16*  | ----       | U-CUP                                   | 1    |
| 17*  | ----       | WIPER                                   | 1    |
| 18** | ----       | WIPER                                   | 1    |
|      | PMCK-22000 | PACKING KIT (CONTAINS ITEMS 11 THRU 18) | 1    |

\* PARTS AVAILABLE IN PACKING KIT ONLY.

\*\* PART OF PACKING KIT ONLY

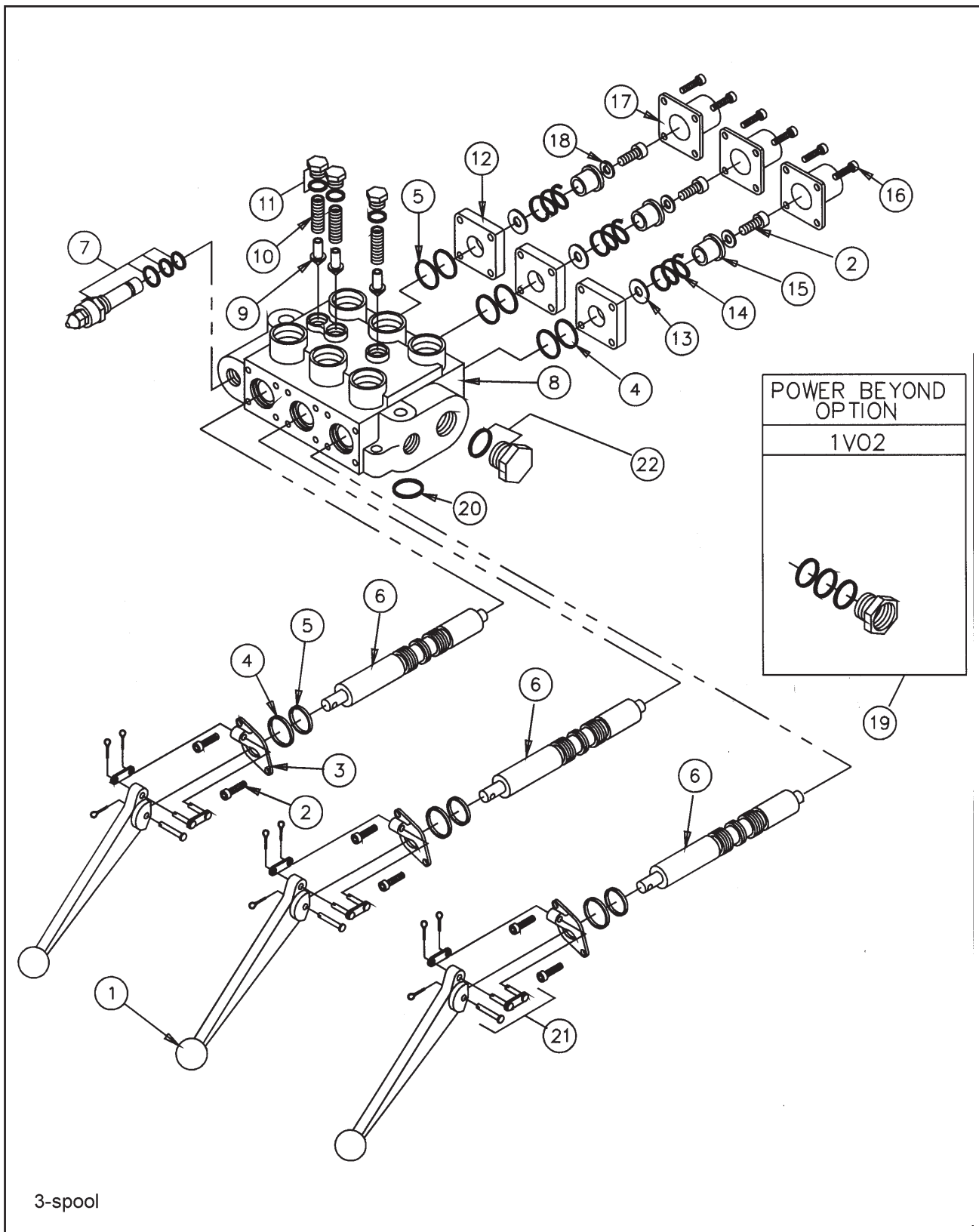


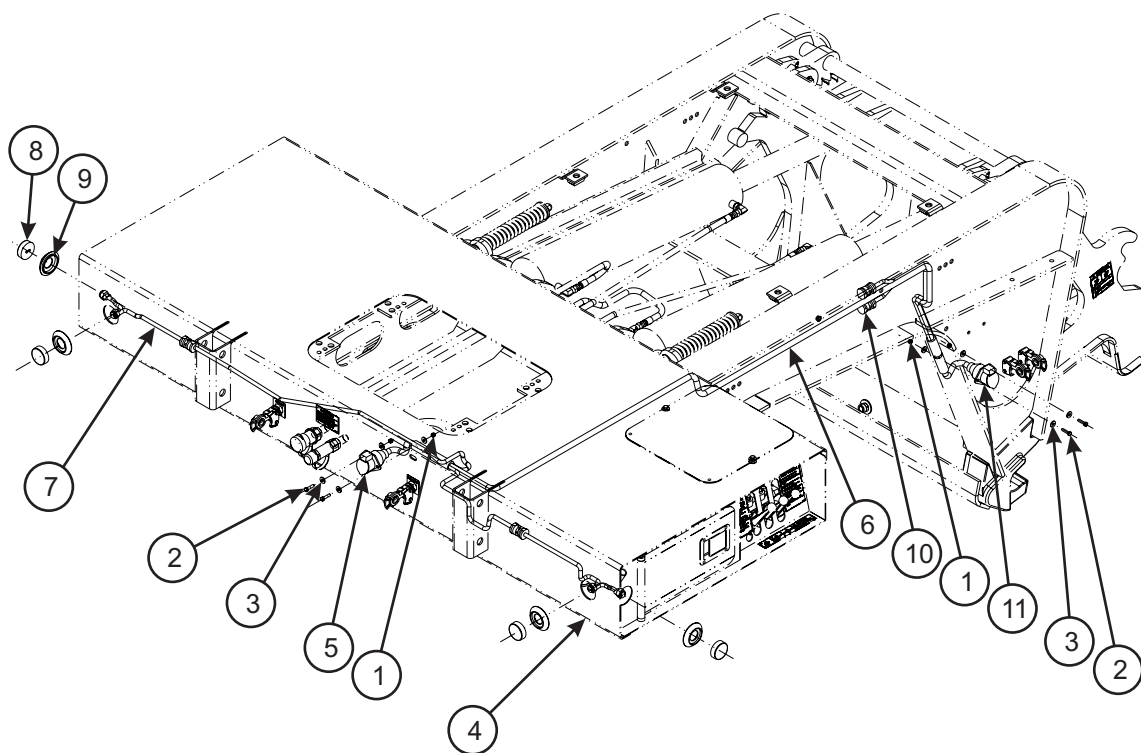
Figure 1-29 Three Spool Valve

## THREE SPOOL VALVE

| ITEM | PART NO.     | DESCRIPTION                                                               | QTY. |
|------|--------------|---------------------------------------------------------------------------|------|
|      | 3-846-010159 | VALVE ASSEMBLY, COMPLETE THREE SPOOL                                      |      |
| 1    | 1V1703       | VALVE, HANDLE                                                             | 3    |
| 2    | 2A0079-404   | CAP SCREW (TIGHTEN TO 7 - 11 FT.-LBS.)                                    | 9    |
| 3    | 4Z4306       | BRACKET, HANDLE                                                           | 3    |
| 4    | 1A0711       | WASHER, O-RING SPOOL                                                      | 6    |
| 5    | 2A0283-7214  | SEAL, SPOOL                                                               | 6    |
| 6    | *            | SPOOL, 4-WAY                                                              | **2  |
| 6A   | *            | MOTOR SPOOL, 4-WAY                                                        | **1  |
| 7    | 1R0017       | RELIEF ASSEMBLY (1500 - 3000 PSI)(PRESET @ 2500 PSI)                      | 1    |
| 8    | *            | HOUSING, VALVE                                                            | 1    |
| 9    | 1V0081       | POPPET, LOAD CHECK                                                        | 3    |
| 10   | 1A0757       | SPRING, LOAD CHECK                                                        | 3    |
| 11   | 1V1725       | PLUG, LOAD CHECK                                                          | 3    |
| 12   | 1A0709       | SPACER, END                                                               | 3    |
| 13   | 1A0291       | WASHER, STOP                                                              | 3    |
| 14   | 1A0744       | SPRING, CENTERING                                                         | 3    |
| 15   | 1A0292       | COLLAR, STOP                                                              | 3    |
| 16   | 2A0079-406   | CAP SCREW (TIGHTEN TO 7 -11 FT.-LBS.)                                     | 12   |
| 17   | 1A0294       | CAP, END                                                                  | 3    |
| 18   | 1A0290       | WASHER, CENTERING SPRING                                                  | 3    |
| 19   | 1V0208       | ADAPTER ASSEMBLY, REMOTE POWER BEYOND<br>(CONTAINS ALL NECESSARY O-RINGS) | 1    |
| 20   | 2A283-7214   | GROMMET, RUBBER (BOTTOM OUTLET)                                           | 1    |
| 21   | 1V1701       | PIN KIT                                                                   | 3    |
| 22   | 2A0354-121   | PLUG, CONVERSION                                                          | 1    |
|      | 2V0010       | SEAL KIT                                                                  |      |

\* NOT SOLD SEPARATELY.

\*\* COMPONENT IS 3-SPOOL VALVE WITH 1ST STAGE MOTOR SPOOL USED IN PLANETARY WINCH APPLICATIONS.



m146899 gn elect assy

**Figure 1-30 Gooseneck Electrical System**

## GOOSENECK ELECTRICAL SYSTEM

| ITEM | PART NO.        | DESCRIPTION                             | QTY. |
|------|-----------------|-----------------------------------------|------|
| 1    | 1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB               | 4    |
| 2    | 1-654-010049-06 | SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5 | 4    |
| 3    | 1-861-010032-09 | WASHER, FLAT 5/16W                      | 4    |
| 4    | -----           | GOOSENECK WELDMENT                      | REF  |
| 5    | 143100          | HARNESS, 7 WAY RECEPTACLE               | 1    |
| 6    | 143101          | HARNESS, FRONT MAIN                     | 1    |
| 7    | 143105          | HARNESS, MARKER FRONT CORNER            | 2    |
| 8    | 143109          | LIGHT, YELLOW LED 2.5 CL/MARKER         | 8    |
| 9    | 143110          | GROMMET, 2.5 SURFACE MOUNT              | 11   |
| 10   | 143121          | DUMMY PLUG MALE/FEM BULLET              | REF  |
| 11   | 146897          | HARNESS, 7 WAY RECP REAR GROTE          | 1    |

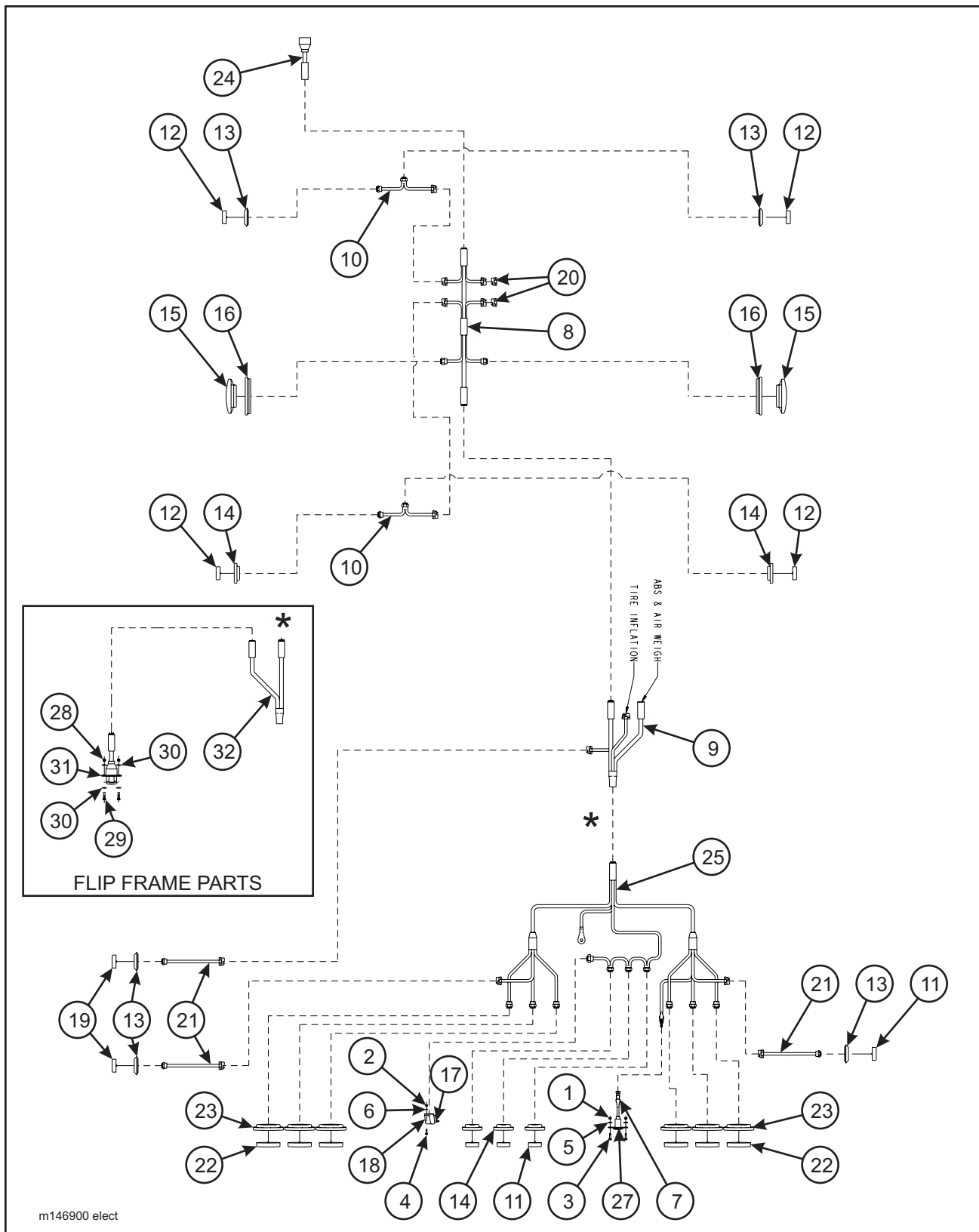
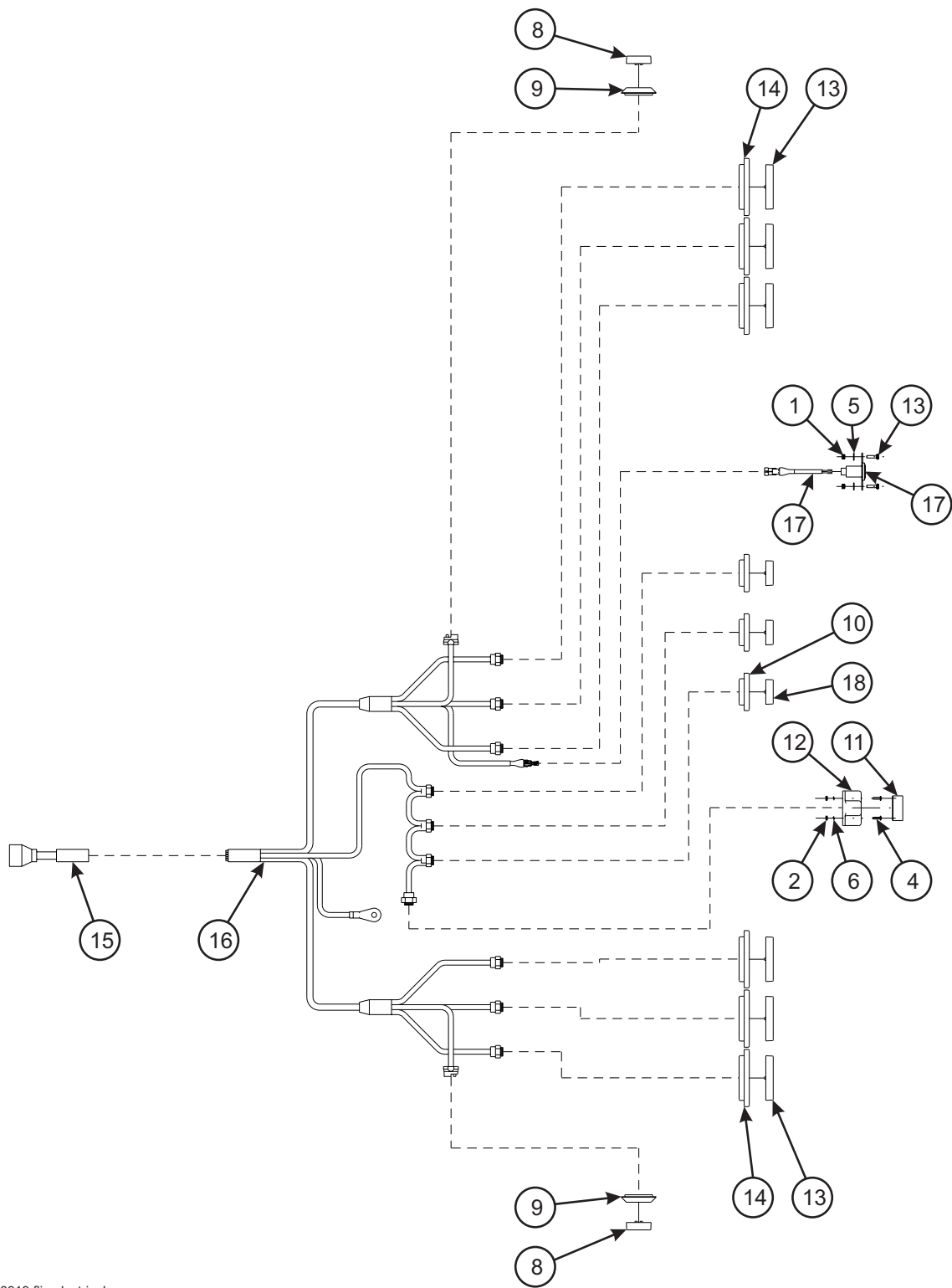


Figure 1-31 Frame Electrical System

## FRAME ELECTRICAL SYSTEM

| ITEM | PART NO.        | DESCRIPTION                             | QTY. |
|------|-----------------|-----------------------------------------|------|
| 1    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                | 4    |
| 2    | 1-512-010007-03 | NUT, HEX 10-24 GRB                      | 2    |
| 3    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5      | 4    |
| 4    | 1-656-010003051 | SCREW, RD HEAD MACH 10-24 X 3/4         | 2    |
| 5    | 1-861-010032-07 | WASHER, FLAT 1/4W                       | 4    |
| 6    | 1-861-010034-07 | WASHER, SPLIT LOCK #10                  | 4    |
| 7    | 140019          | HARNESS ASSEMBLY, REAR 4WAY RECEPTACLE  | 1    |
| 8    | 143102          | HARNESS, BED MAIN                       | 1    |
| 9    | 143103          | HARNESS, E-CHAIN                        | 1    |
| 10   | 143106          | HARNESS, MARKER FRONT BED               | 1    |
| 11   | 143108          | LIGHT, RED LED 2.5 CL/MARKER            | 2    |
| 12   | 143109          | LIGHT, YELLOW LED 2.5 CL/MARKER         | 8    |
| 13   | 143110          | GROMMET, 2.5 SURFACE MOUNT              | 11   |
| 14   | 143111          | GROMMET, 2.5 RECESSED MOUNT             | 4    |
| 15   | 143112          | LIGHT, YEL AUX TURN                     | 2    |
| 16   | 143114          | GROMMET, OVAL                           | 8    |
| 17   | 143117          | LIGHT, CLEAR LED LICENSE                | 1    |
| 18   | 143118          | BRACKET, LIGHT LICENSE                  | 1    |
| 19   | 143119          | LIGHT, YELLOW LED ABS                   | 1    |
| 20   | 143121          | DUMMY PLUG MALE/FEM BULLET              | REF  |
| 21   | 144609          | MARKER LAMP PIGTAIL HARNESS             | 3    |
| 22   | 144679          | LIGHT, RED LED 4" S/T/T                 | 6    |
| 23   | 144680          | GROMMET, 4 IN ROUND                     | 6    |
| 24   | 146898          | HARNESS, 7 WAY PLUG G/N                 | 1    |
| 25   | 146926          | HARNESS, BUMPER MOD                     | 1    |
| 26   | 3-201-010002    | CONDUIT 3/8 PLASTIC FLEX (NOT SHOWN)    | 8    |
| 27   | 3-272-010003    | 4 POLE ELECTRICAL FEMALE CONNECTOR      | 1    |
| 28   | 1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB               | 2    |
| 29   | 1-654-010049-06 | SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5 | 2    |
| 30   | 1-861-010032-09 | WASHER, FLAT 5/16W                      | 4    |
| 31   | 146897          | HARNESS, 7 WAY RECP MAIN                | 1    |
| 32   | 146929          | HARNESS, Y SPLITTER                     | 1    |

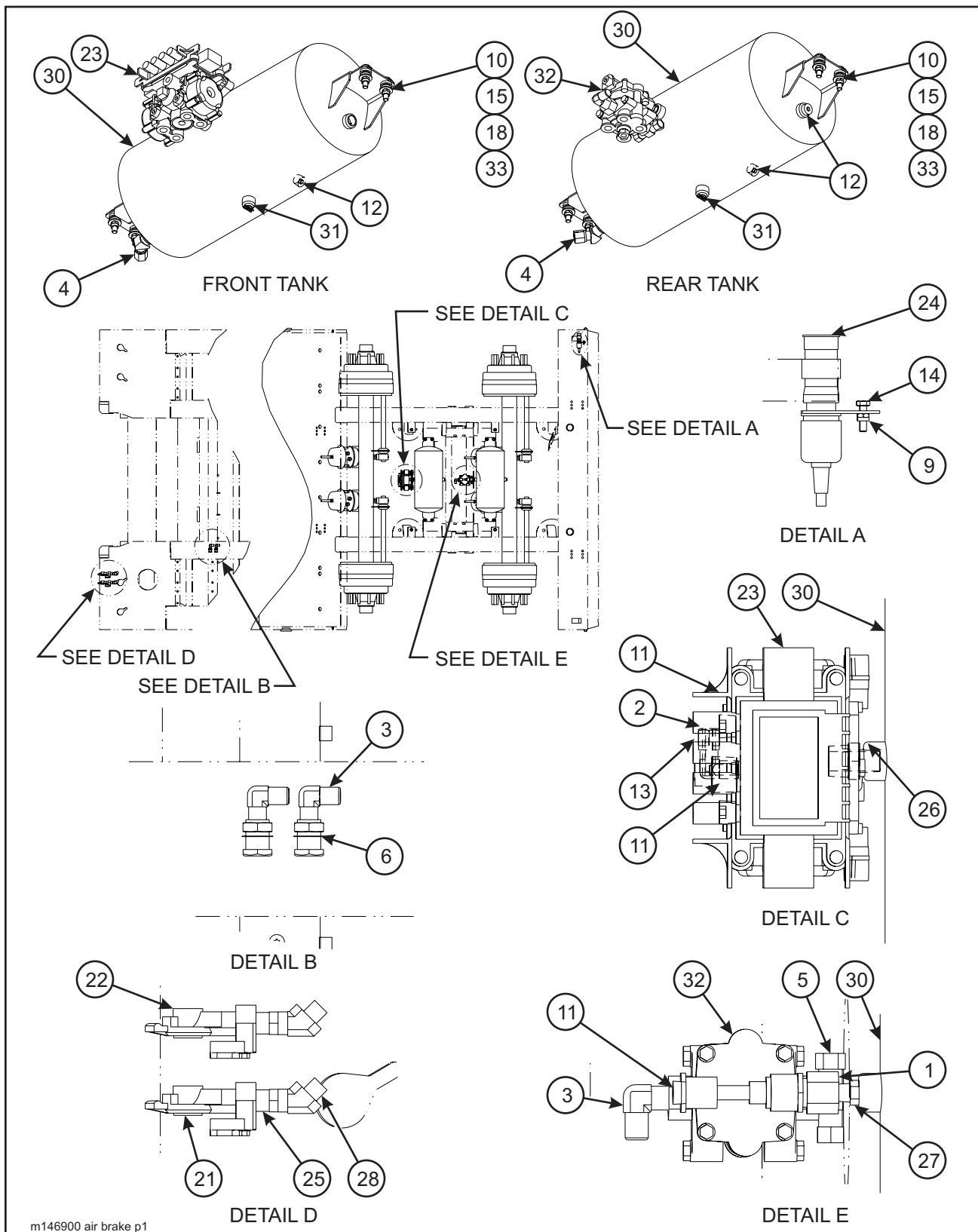


m146919 flip electrical

**Figure 1-32 Flip Axle Electrical System (835B)**

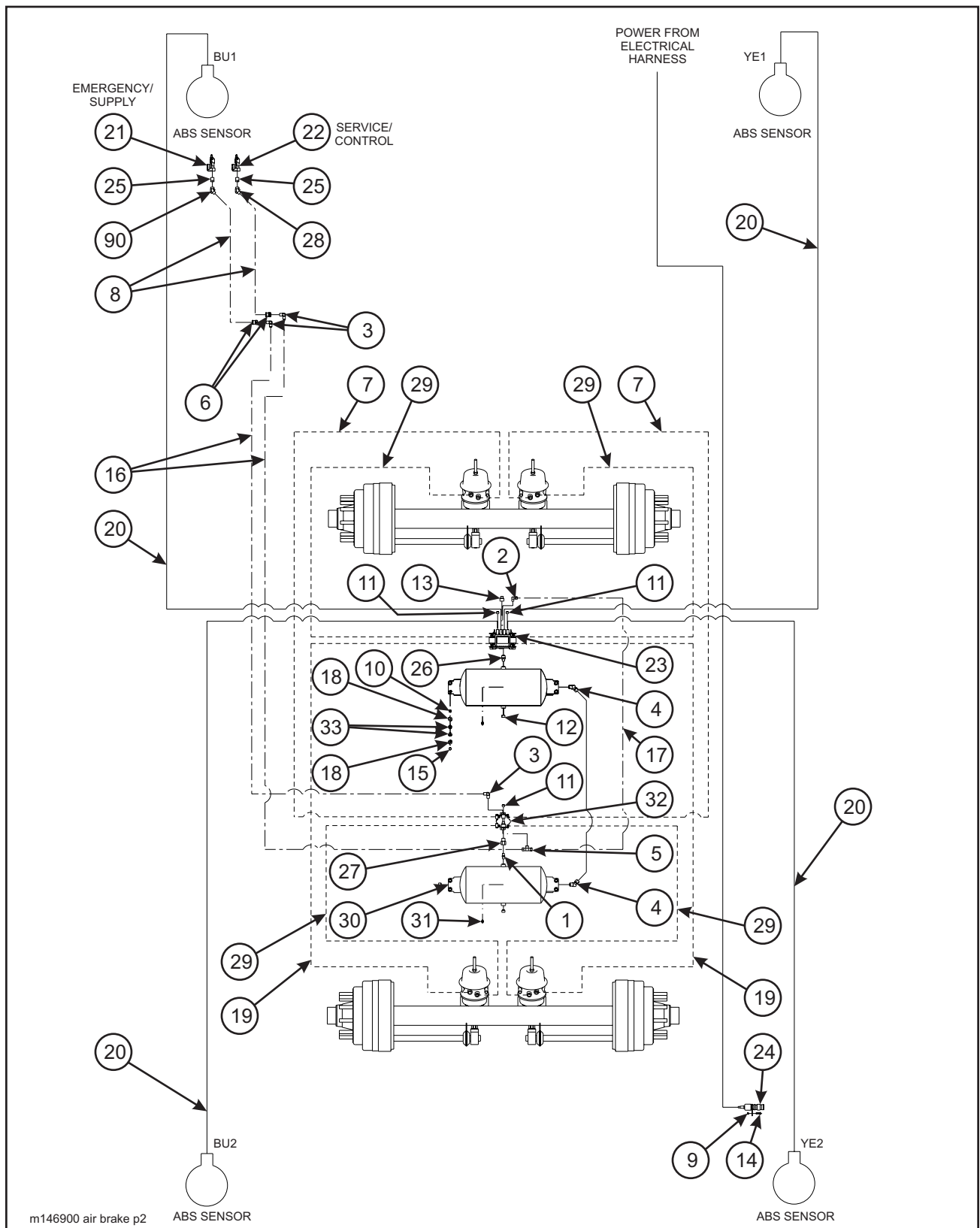
## FLIP AXLE ELECTRICAL SYSTEM (835B)

| ITEM | PART NO.        | DESCRIPTION                            | QTY |
|------|-----------------|----------------------------------------|-----|
|      | 146919          | FLIP ASSY 835AG-60                     |     |
| 1    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB               | 2   |
| 2    | 1-512-010007-03 | NUT, HEX 10-24 GRB                     | 2   |
| 3    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5     | 2   |
| 4    | 1-656-010003051 | SCREW, RD HEAD MACH 10-24 X 3/4        | 2   |
| 5    | 1-861-010032-07 | WASHER, FLAT 1/4W                      | 2   |
| 6    | 1-861-010034-07 | WASHER SPLIT LOCK #10                  | 2   |
| 7    | 140019          | HARNESS ASSEMBLY, REAR 4WAY RECEPTACLE | 1   |
| 8    | 143108          | LIGHT, RED LED 2.5 CL/MARKER           | 5   |
| 9    | 143110          | GROMMET, 2.5 SURFACE MOUNT             | 2   |
| 10   | 143111          | GROMMET, 2.5 RECESSED MOUNT            | 3   |
| 11   | 143117          | LIGHT, CLEAR LED LICENSE               | 1   |
| 12   | 143118          | BRACKET, LIGHT LICENSE                 | 1   |
| 13   | 144679          | LIGHT, RED LED 4" S/T/T                | 6   |
| 14   | 144680          | GROMMET, 4 IN ROUND                    | 6   |
| 15   | 146898          | HARNESS, 7 WAY PLUT G/N                | 1   |
| 16   | 146926          | HARNESS, BUMPER MOD                    | 1   |
| 17   | 3-272-010003    | 4 POLE ELECTRICAL FEMALE CONNECTOR     | 1   |



**Figure 1-33 Air Brake System (825B)**

(1 of 2)



**Figure 1-34 Air Brake System (825B)**

(2 of 2)

## AIR BRAKE SYSTEM (825B)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 1    | 1-297-010004-07 | FITTING, AIR BRASS                     | 1    |
| 2    | 1-297-010008-18 | FITTING, AIR 90                        | 1    |
| 3    | 1-297-010008-20 | FITTING, AIR 90                        | 3    |
| 4    | 1-297-010013-16 | FITTING, AIR 45 W/ ELBOW 1/2           | 2    |
| 5    | 1-297-010015-07 | FITTING, AIR BR TEE 3/8                | 1    |
| 6    | 1-297-010022-03 | FITTING, AIR ANCHOR COUPLING           | 2    |
| 7    | 1-384-010038060 | HOSE, AIR 3/8 X 60                     | 2    |
| 8    | 1-384-010038084 | HOSE, AIR 3/8 X 84                     | 2    |
| 9    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB               | 2    |
| 10   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB               | 8    |
| 11   | 1-560-010002-03 | PLUG, PIPE 3/8                         | 3    |
| 12   | 1-560-010002-04 | PLUG, PIPE 1/2                         | 3    |
| 13   | 1-560-010002-05 | PLUG, PIPE 3/4                         | 1    |
| 14   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5     | 2    |
| 15   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5 | 8    |
| 16   | 1-833-010002    | TUBING, NYLON 3/8                      | AR   |
| 17   | 1-833-010003    | TUBING, NYLON 1/2                      | AR   |
| 18   | 1-861-010032-11 | WASHER, FLAT 3/8W                      | 16   |
| 19   | 101003          | HOSE, AIR 3/8 X 48                     | 2    |
| 20   | 103861          | SENSOR, EXT CABLE 3M (10 FT.)          | REF  |
| 21   | 108801          | GLAD HAND - RED - AIR                  | 1    |
| 22   | 108802          | GLAD HAND - BLUE - AIR                 | 1    |
| 23   | 114584          | ABS KIT 4S/2M (SEE PAGE 1-75)          | 1    |
| 24   | 114590          | DIAGNOSTIC CABLE BLINK LIGHT           | REF  |
| 25   | 2081-8-6S       | REDUCER                                | 2    |
| 26   | 2083-12-8S      | NIPPLE, HEX                            | 1    |
| 27   | 2083-8-8S       | NIPPLE, HEX                            | 1    |
| 28   | 2088-6-6S       | ADAPTER 45                             | 2    |
| 29   | 3-384-010020    | HOSE, AIR 3/8 X 32                     | 4    |
| 30   | 3-780-010002    | AIR TANK                               | 2    |
| 31   | 56D4            | COCK, DRAIN AIR TANK                   | 2    |
| 32   | 758-181         | VALVE, TASK 4 PORT                     | 1    |
| 33   | 805-2           | BUSHING, STEP                          | 16   |



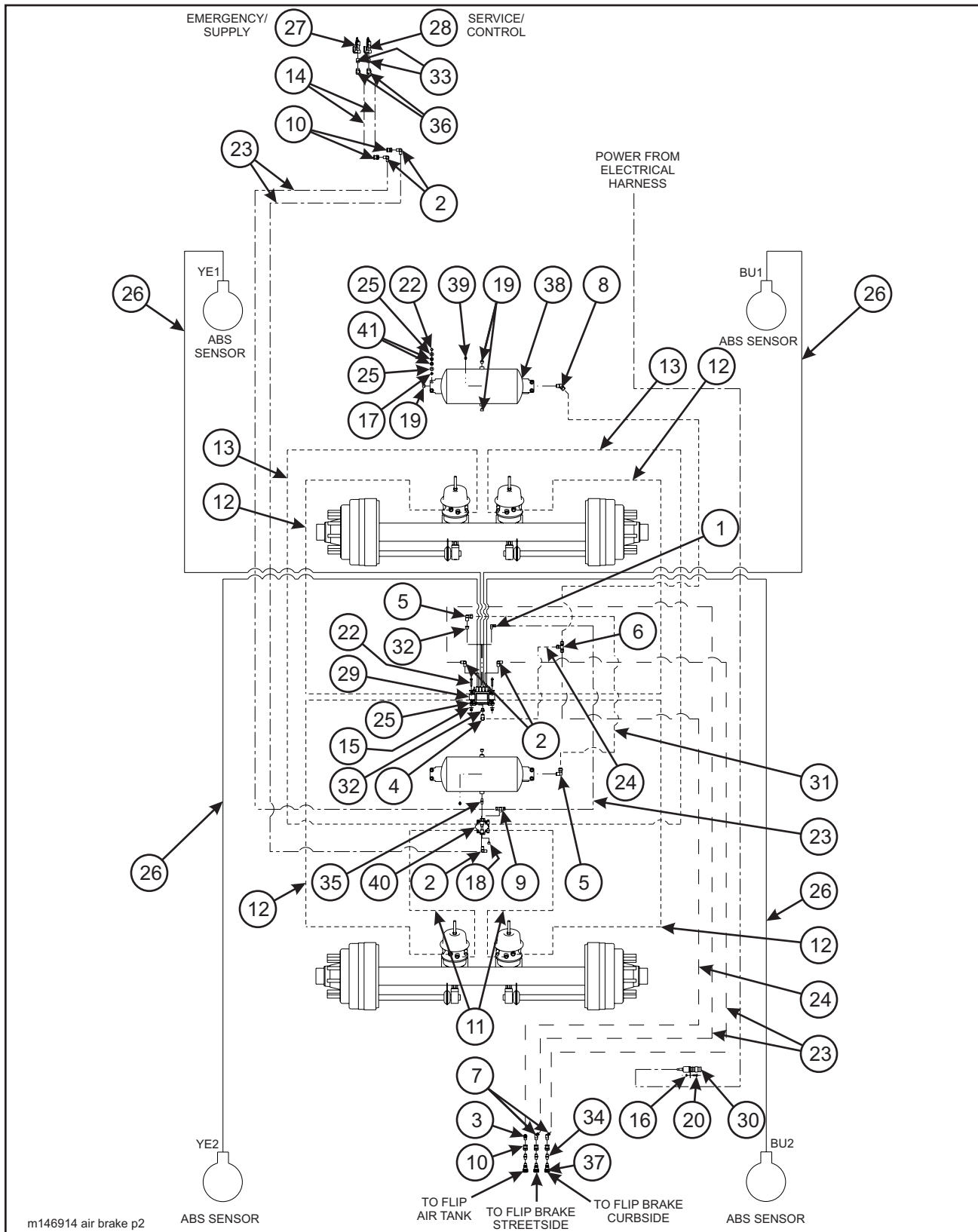


Figure 1-36 Air Brake System (835B w/ Flip Provision)

(2 of 2)

## AIR BRAKE SYSTEM (835B W/ FLIP PROVISION)

| ITEM | PART NO.        | DESCRIPTION                              | QTY  |
|------|-----------------|------------------------------------------|------|
| 1    | 1-297-010008-18 | FITTING, AIR 90                          | 1    |
| 2    | 1-297-010008-20 | FITTING, AIR 90                          | 3    |
| 3    | 1-297-010008-23 | FITTING, AIR 90                          | 1    |
| 4    | 1-297-010008-24 | FITTING, AIR 90                          | 1    |
| 5    | 1-297-010008-26 | FITTING, AIR 90                          | 2    |
| 6    | 1-297-010010-06 | FITTING, AIR UNION TEE                   | 1    |
| 7    | 1-297-010013-12 | FITTING, AIR 45 W/ ELBOW 3/8             | 2    |
| 8    | 1-297-010013-16 | FITTING, AIR 45 W/ ELBOW 1/2             | 1    |
| 9    | 1-297-010015-07 | FITTING, AIR BR TEE 3/8                  | 1    |
| 10   | 1-297-010022-03 | FITTING, AIR ANCHOR COUPLING             | 2    |
| 11   | 1-384-010038024 | HOSE, AIR 3/8 X 24                       | 3    |
| 12   | 1-384-010038038 | HOSE, AIR 3/8 X 38                       | *2,4 |
| 13   | 1-384-010038060 | HOSE, AIR 3/8 X 60                       | 2    |
| 14   | 1-384-010038084 | HOSE, AIR 3/8 X 84                       | 2    |
| 15   | 1-510-010001    | NUT, FLANGE HEAD SERR 3/8-16             | 2    |
| 16   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                 | 2    |
| 17   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                 | 8    |
| 18   | 1-560-010002-03 | PLUG, PIPE 3/8                           | 3    |
| 19   | 1-560-010002-04 | PLUG, PIPE 1/2                           | 3    |
| 20   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5       | 2    |
| 21   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5   | 8    |
| 22   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5   | 8    |
| 23   | 1-833-010002    | TUBING, NYLON 3/8                        | AR   |
| 24   | 1-833-010003    | TUBING, NYLON 1/2                        | AR   |
| 25   | 1-861-010032-11 | WASHER, FLAT 3/8W                        | 16   |
| 26   | 103861          | SENSOR, EXT CABLE 3M (10 FT.)            | REF  |
| 27   | 108801          | GLAD HAND - RED - AIR                    | 1    |
| 28   | 108802          | GLAD HAND - BLUE - AIR                   | 1    |
| 29   | 114584          | ABS KIT 4S/2M (SEE PAGE 1-75)            | 1    |
|      | 114586          | ABS KIT 4S/2M TRI/SPREAD (SEE PAGE 1-75) | 1    |
| 30   | 114590          | DIAGNOSTIC CABLE BLINK LIGHT             | REF  |
| 31   | 117304          | TUBING, NYLON 5/8                        | AR   |
| 32   | 118-2659-9      | BUSHING, BLACK PIPE                      | 2    |
| 33   | 2081-8-6S       | REDUCER                                  | 2    |
| 34   | 2083-6-6S       | ADAPTER, HYD NIPPLE 3/8-18               | 3    |
| 35   | 2083-8-8S       | NIPPLE, HEX                              | 2    |
| 36   | 2088-6-6S       | ADAPTER 45                               | 2    |
| 37   | 3-220-010004    | COUPLER, AIR FEMALE 3/8-18               | 3    |
| 38   | 3-780-010002    | AIR TANK                                 | 2    |
| 39   | 56D4            | COCK, DRAIN AIR TANK                     | 2    |
| 40   | 758-181         | VALVE, TASK 4 PORT                       | 1    |
| 41   | 805-2           | BUSHING, STEP                            | 16   |

\* QTY 2 OF ITEMS 17 AND 18 USED WHEN NO OPTIONAL FLIP; QTY 4 OF THE 17 USED WHEN OPTIONAL FLIP.

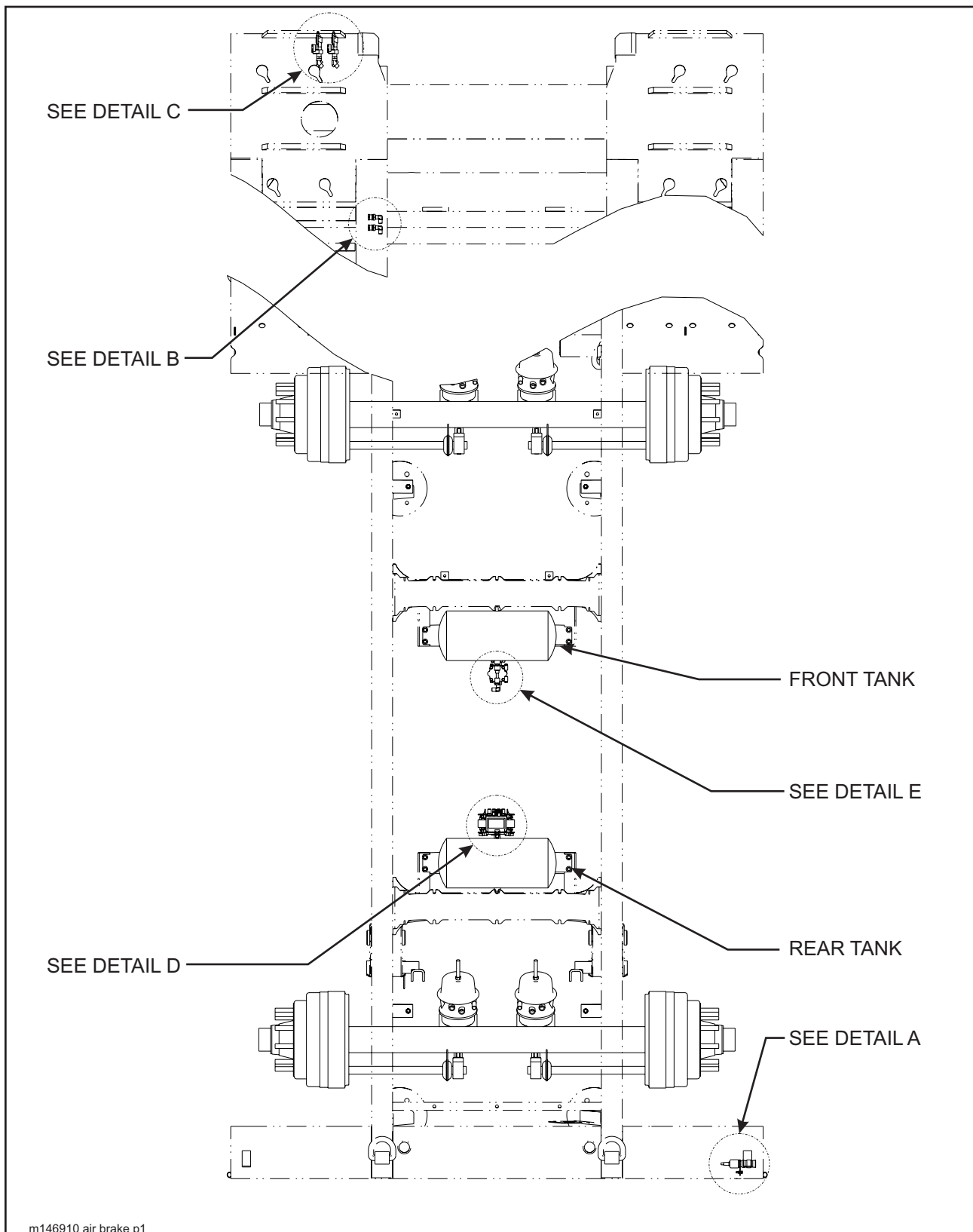
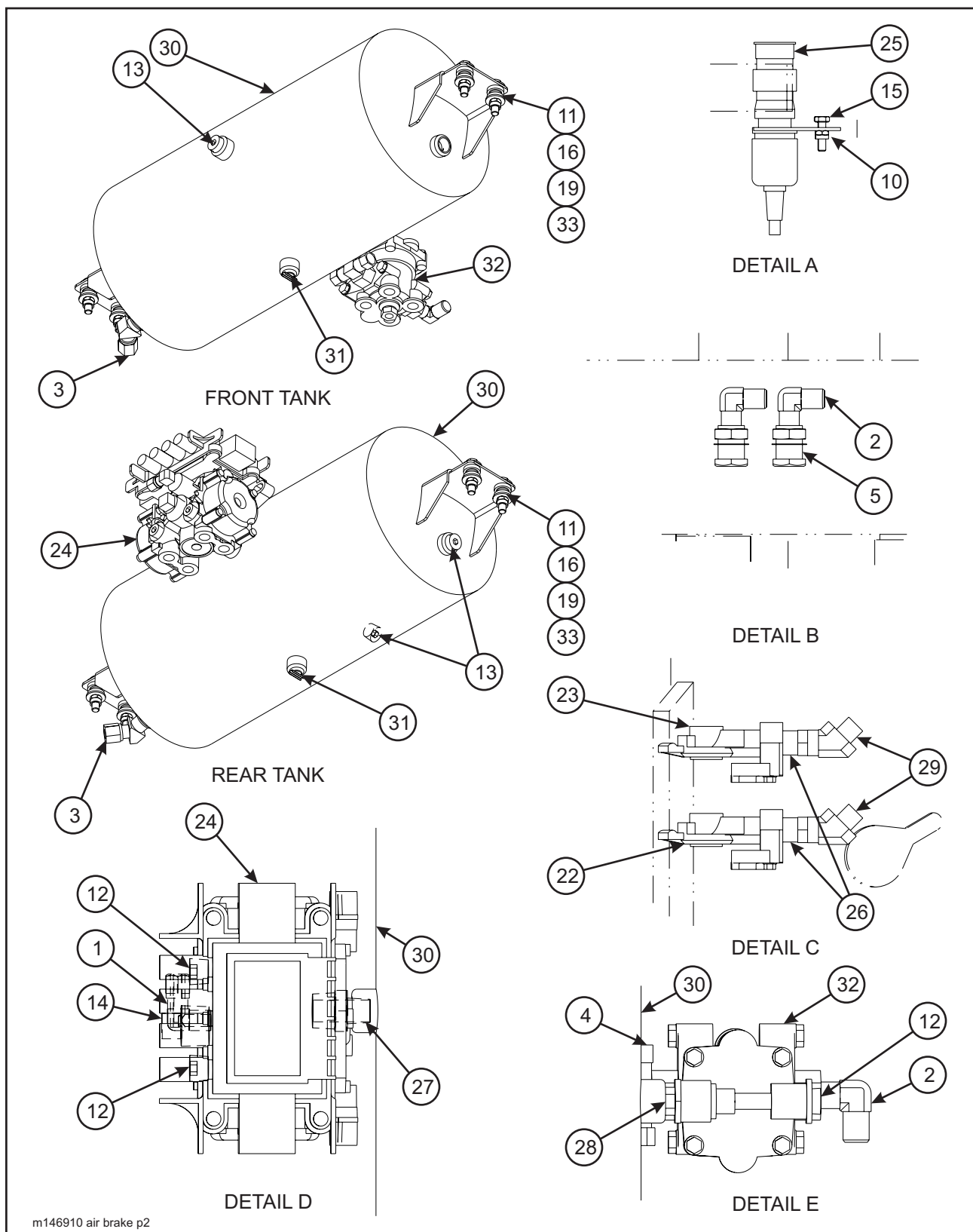


Figure 1-37 Air Brake System (835B Spread Axle)

(1 of 3)



**Figure 1-38 Air Brake System (835B Spread Axle)**

(2 of 3)

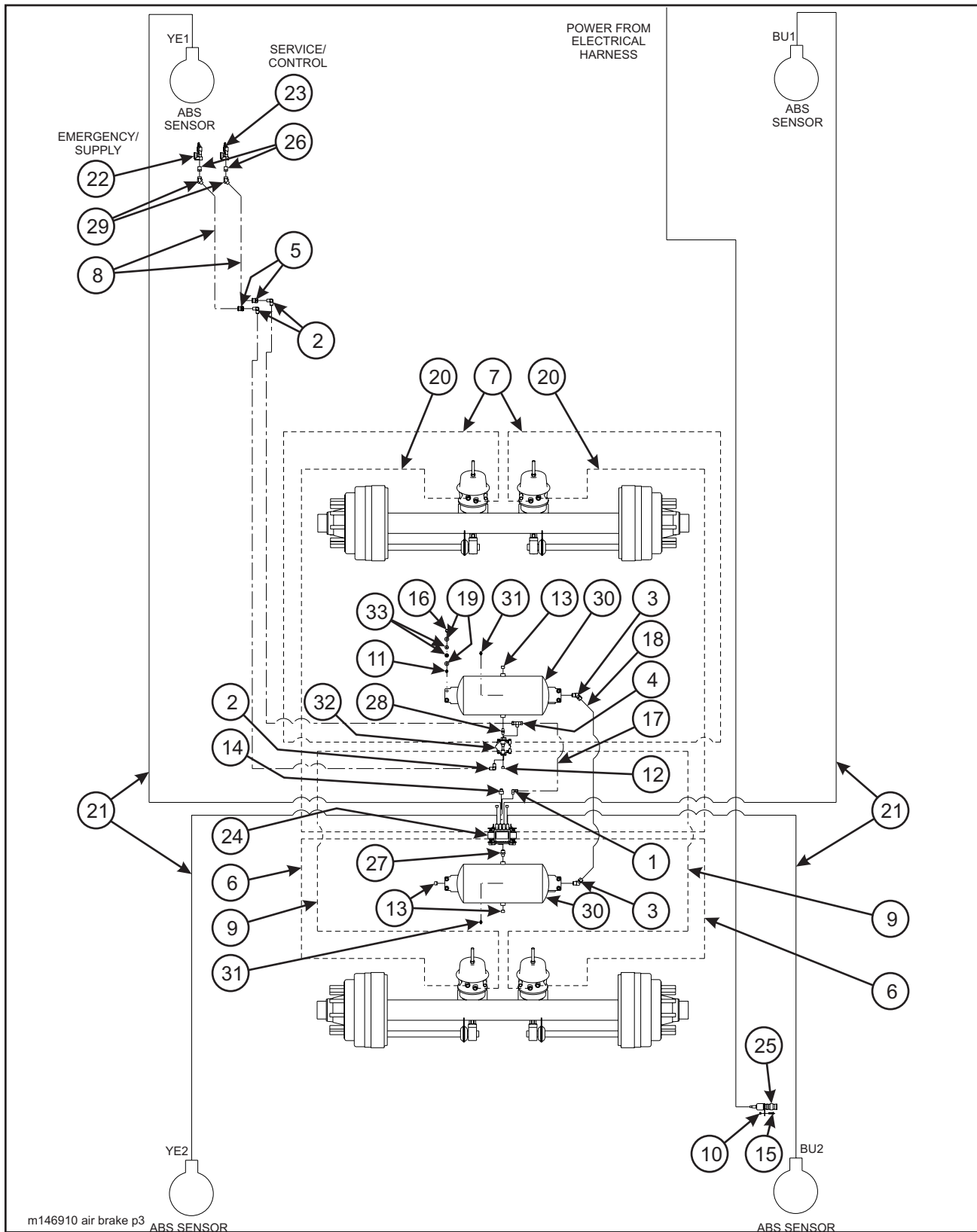
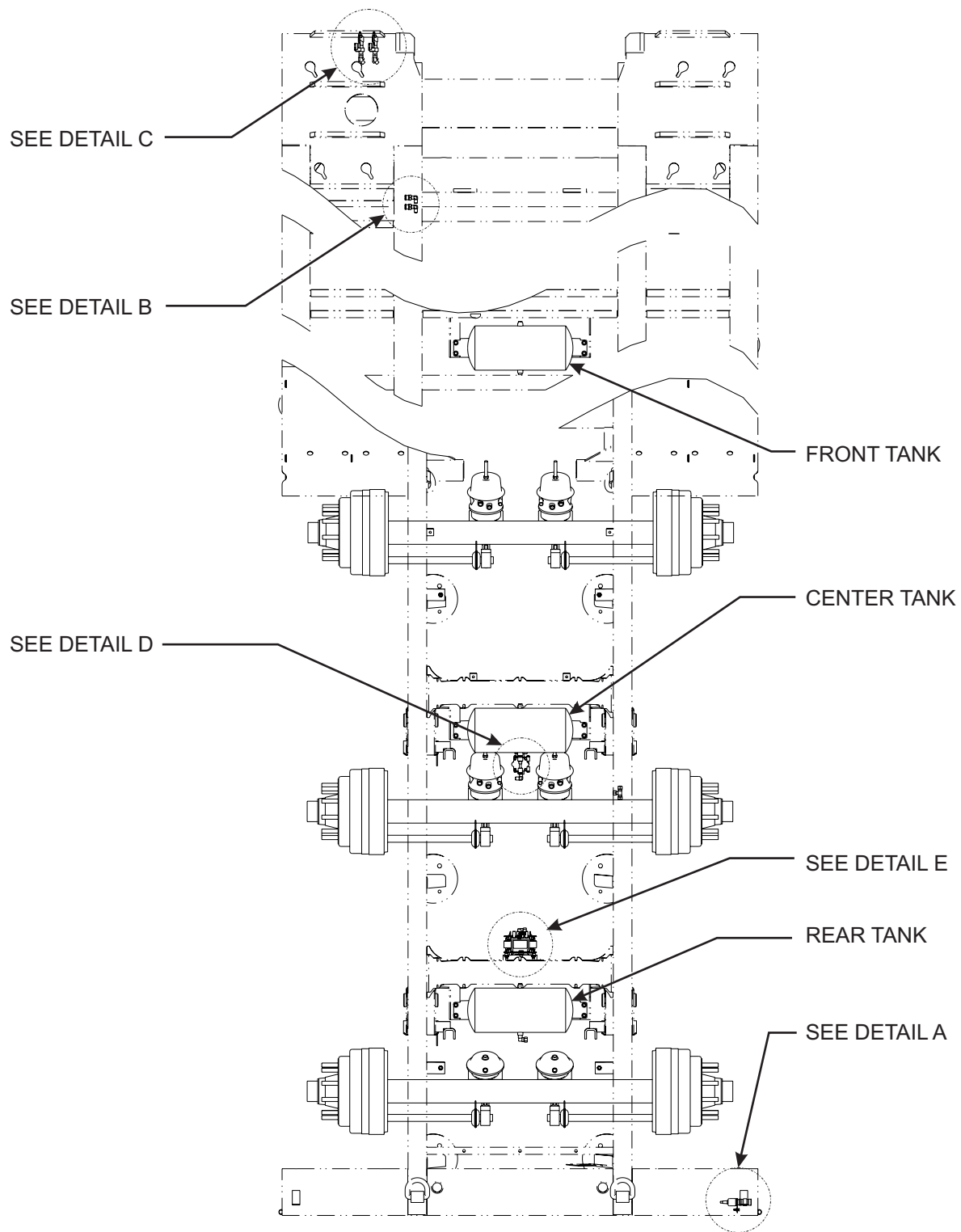


Figure 1-39 Air Brake System (835B Spread Axle)

(3 of 3)

## AIR BRAKE SYSTEM (835B SPREAD AXLE)

| ITEM | PART NO.        | DESCRIPTION                              | QTY |
|------|-----------------|------------------------------------------|-----|
| 1    | 1-297-010008-18 | FITTING, AIR 90                          | 1   |
| 2    | 1-297-010008-20 | FITTING, AIR 90                          | 3   |
| 3    | 1-297-010013-16 | FITTING, AIR 45 W/ ELBOW 1/2             | 2   |
| 4    | 1-297-010015-07 | FITTING, AIR BR TEE 3/8                  | 1   |
| 5    | 1-297-010022-03 | FITTING, AIR ANCHOR COUPLING             | 2   |
| 6    | 1-384-010038038 | HOSE, AIR 3/8 X 38                       | 2   |
| 7    | 1-384-010038060 | HOSE, AIR 3/8 X 60                       | 2   |
| 8    | 1-384-010038084 | HOSE, AIR 3/8 X 84                       | 2   |
| 9    | 1-384-010038090 | HOSE, AIR 3/8 X 90                       | 2   |
| 10   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                 | 2   |
| 11   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                 | 8   |
| 12   | 1-560-010002-03 | PLUG, PIPE 3/8                           | 3   |
| 13   | 1-560-010002-04 | PLUG, PIPE 1/2                           | 3   |
| 14   | 1-560-010002-05 | PLUG, PIPE 3/4-14                        | 1   |
| 15   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5       | 2   |
| 16   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5   | 8   |
| 17   | 1-833-010002    | TUBING, NYLON 3/8                        | AR  |
| 18   | 1-833-010003    | TUBING, NYLON 1/2                        | AR  |
| 19   | 1-861-010032-11 | WASHER, FLAT 3/8W                        | 16  |
| 20   | 103738          | HOSE, AIR 3/8 X 100                      | 2   |
| 21   | 103861          | SENSOR, EXT CABLE 3M (10 FT.)            | REF |
| 22   | 108801          | GLAD HAND - RED - AIR                    | 1   |
| 23   | 108802          | GLAD HAND - BLUE - AIR                   | 1   |
| 24   | 114586          | ABS KIT 4S/2M TRI/SPREAD (SEE PAGE 1-75) | 1   |
| 25   | 114590          | DIAGNOSTIC CABLE BLINK LIGHT             | REF |
| 26   | 2081-8-6S       | REDUCER                                  | 2   |
| 27   | 2083-12-8S      | NIPPLE, HEX                              | 1   |
| 28   | 2083-8-8S       | NIPPLE, HEX                              | 1   |
| 29   | 2088-6-6S       | ADAPTER 45                               | 2   |
| 30   | 3-780-010002    | AIR TANK                                 | 2   |
| 31   | 56D4            | COCK, DRAIN AIR TANK                     | 2   |
| 32   | 758-181         | VALVE, TASK 4 PORT                       | 1   |
| 33   | 805-2           | BUSHING, STEP                            | 16  |



**Figure 1-40 Air Brake System (835B Triple Axle)**  
**(1 of 3)**

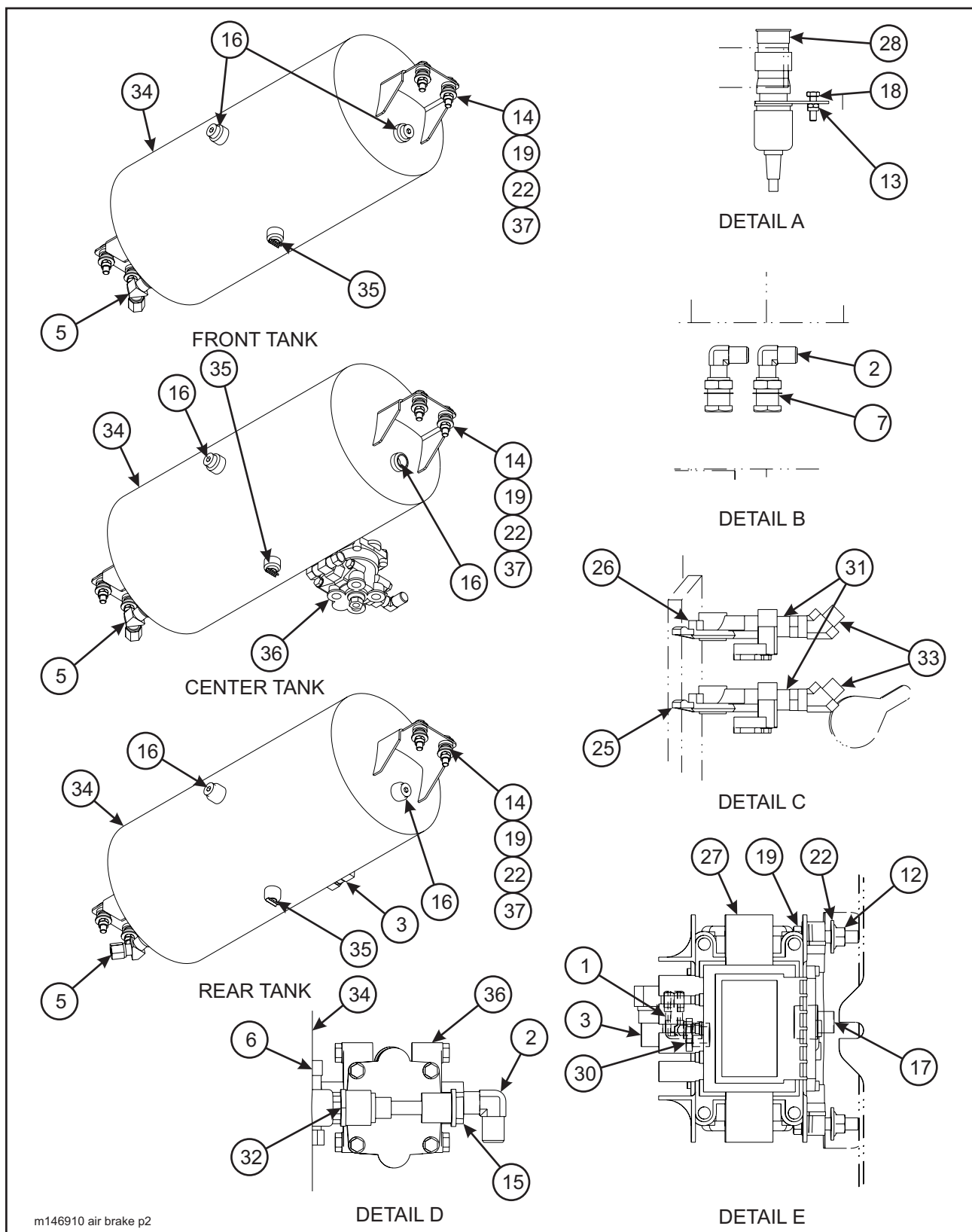


Figure 1-41 Air Brake System (835B Triple Axle)

(2 of 3)



## AIR BRAKE SYSTEM (835B TRIPLE AXLE)

| ITEM | PART NO.        | DESCRIPTION                              | QTY |
|------|-----------------|------------------------------------------|-----|
| 1    | 1-297-010008-18 | FITTING, AIR 90                          | 1   |
| 2    | 1-297-010008-20 | FITTING, AIR 90                          | 3   |
| 3    | 1-297-010008-26 | FITTING, AIR 90                          | 2   |
| 4    | 1-297-010010-06 | FITTING, AIR UNION TEE                   | 1   |
| 5    | 1-297-010013-16 | FITTING, AIR 45 W/ ELBOW 1/2             | 3   |
| 6    | 1-297-010015-07 | FITTING, AIR BR TEE 3/8                  | 1   |
| 7    | 1-297-010022-03 | FITTING, AIR ANCHOR COUPLING             | 2   |
| 8    | 1-384-010038024 | HOSE, AIR 3/8 X 24                       | 2   |
| 9    | 1-384-010038038 | HOSE, AIR 3/8 X 38                       | 4   |
| 10   | 1-384-010038060 | HOSE, AIR 3/8 X 60                       | 2   |
| 11   | 1-384-010038084 | HOSE, AIR 3/8 X 84                       | 2   |
| 12   | 1-510-010001    | NUT, FLANGE HEAD SERR 3/8-16             | 2   |
| 13   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                 | 2   |
| 14   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                 | 8   |
| 15   | 1-560-010002-03 | PLUG, PIPE 3/8                           | 1   |
| 16   | 1-560-010002-04 | PLUG, PIPE 1/2                           | 6   |
| 17   | 1-560-010002-05 | PLUG, PIPE 3/4                           | 1   |
| 18   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5       | 4   |
| 19   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5   | 8   |
| 20   | 1-833-010002    | TUBING, NYLON 3/8                        | AR  |
| 21   | 1-833-010003    | TUBING, NYLON 1/2                        | AR  |
| 22   | 1-861-010032-11 | WASHER, FLAT 3/8W                        | 34  |
| 23   | 103738          | HOSE, AIR 3/8 X 100                      | 2   |
| 24   | 103861          | SENSOR, EXT CABLE 3M (10 FT.)            | REF |
| 25   | 108801          | GLAD HAND - RED - AIR                    | 1   |
| 26   | 108802          | GLAD HAND - BLUE - AIR                   | 1   |
| 27   | 114586          | ABS KIT 4S/2M TRI/SPREAD (SEE PAGE 1-75) | 1   |
| 28   | 114590          | DIAGNOSTIC CABLE BLINK LIGHT             | REF |
| 29   | 117304          | TUBING, NYLON 5/8                        | AR  |
| 30   | 118-2659-9      | BUSHING, BLACK PIPE                      | 1   |
| 31   | 2081-8-6S       | REDUCER                                  | 2   |
| 32   | 2083-8-8S       | NIPPLE, HEX                              | 1   |
| 33   | 2088-6-6S       | ADAPTER 45                               | 2   |
| 34   | 3-780-010002    | AIR TANK                                 | 3   |
| 35   | 56D4            | COCK, DRAIN AIR TANK                     | 3   |
| 36   | 758-181         | VALVE, TASK 4 PORT                       | 1   |
| 37   | 805-2           | BUSHING, STEP                            | 24  |

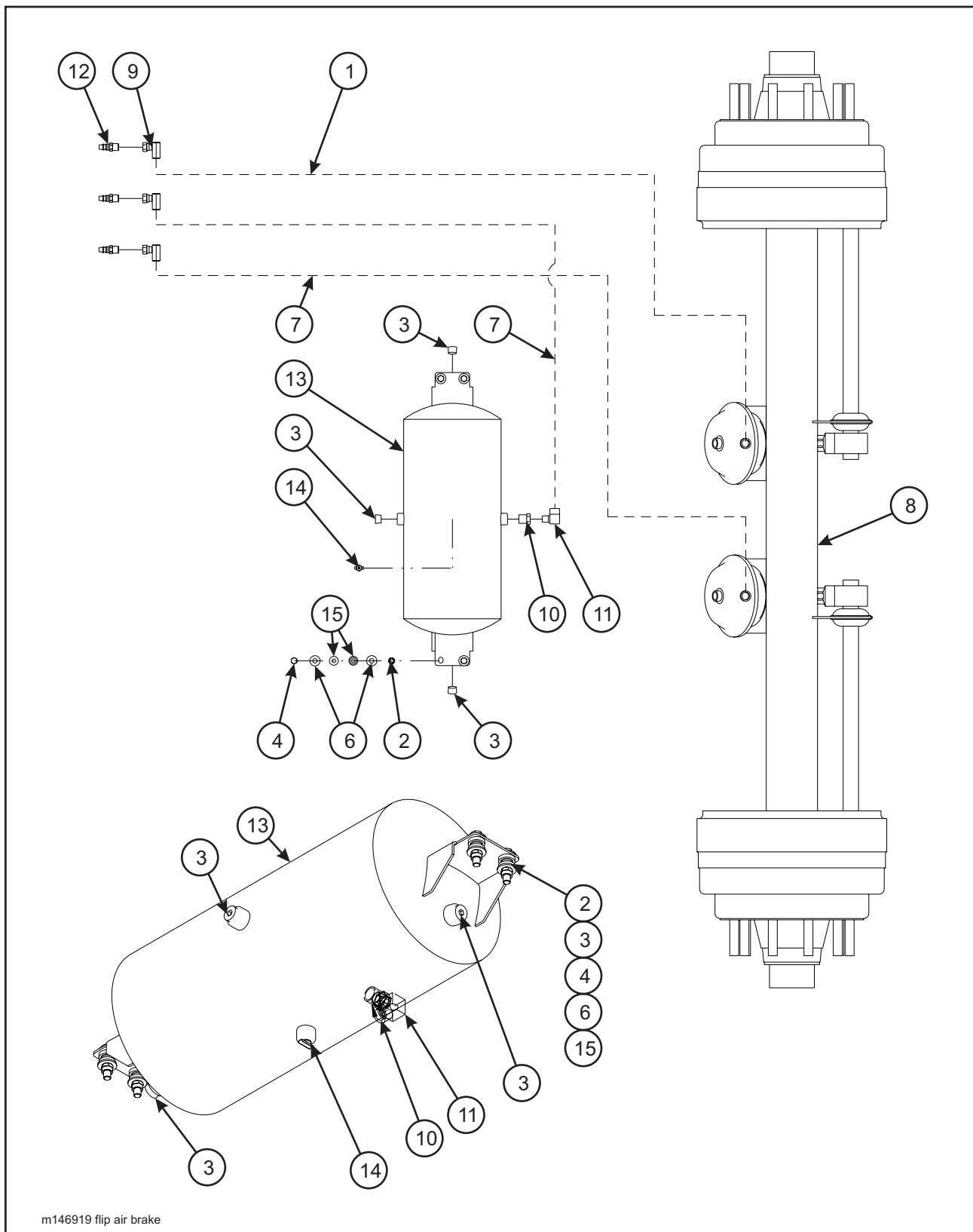
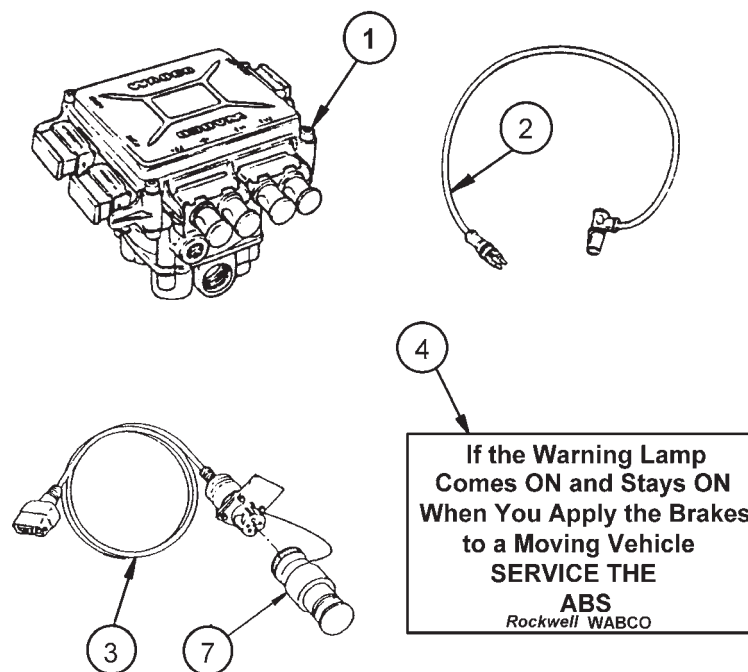


Figure 1-43 Air Brake System - Flip Axle (835B)

## AIR BRAKE SYSTEM - FLIP AXLE (835B)

| ITEM | PART NO.        | DESCRIPTION                                                                         | QTY |
|------|-----------------|-------------------------------------------------------------------------------------|-----|
| 1    | 1-384-010038054 | HOSE, AIR 3/8 X 54                                                                  | 1   |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                                            | 4   |
| 3    | 1-560-010002-04 | PLUG, PIPE 1/2                                                                      | 3   |
| 4    | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5                                              | 4   |
| 5    | 1-796-010003-01 | TIE STRAP, PLASTIC (NOT SHOWN)                                                      | AR  |
| 6    | 1-861-010032-11 | WASHER, FLAT 3/8W                                                                   | 8   |
| 7    | 101003          | HOSE, AIR 3/8 X 48                                                                  | 2   |
| 8    | 115757          | AXLE WELDMENT RLU 250 D2516-SER-79<br>(FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-43) | 1   |
| 9    | 118-2650-6      | SWIVEL, 90                                                                          | 3   |
| 10   | 2081-8-6S       | REDUCER                                                                             | 1   |
| 11   | 2089-6-6S       | ADAPTER, 90                                                                         | 1   |
| 12   | 3-220-010005    | COUPLER, AIR MALE                                                                   | 3   |
| 13   | 3-780-010002    | AIR TANK                                                                            | 1   |
| 14   | 56D4            | COCK, DRAIN AIR TANK                                                                | 1   |
| 15   | 805-2           | BUSHING, STEP                                                                       | 8   |

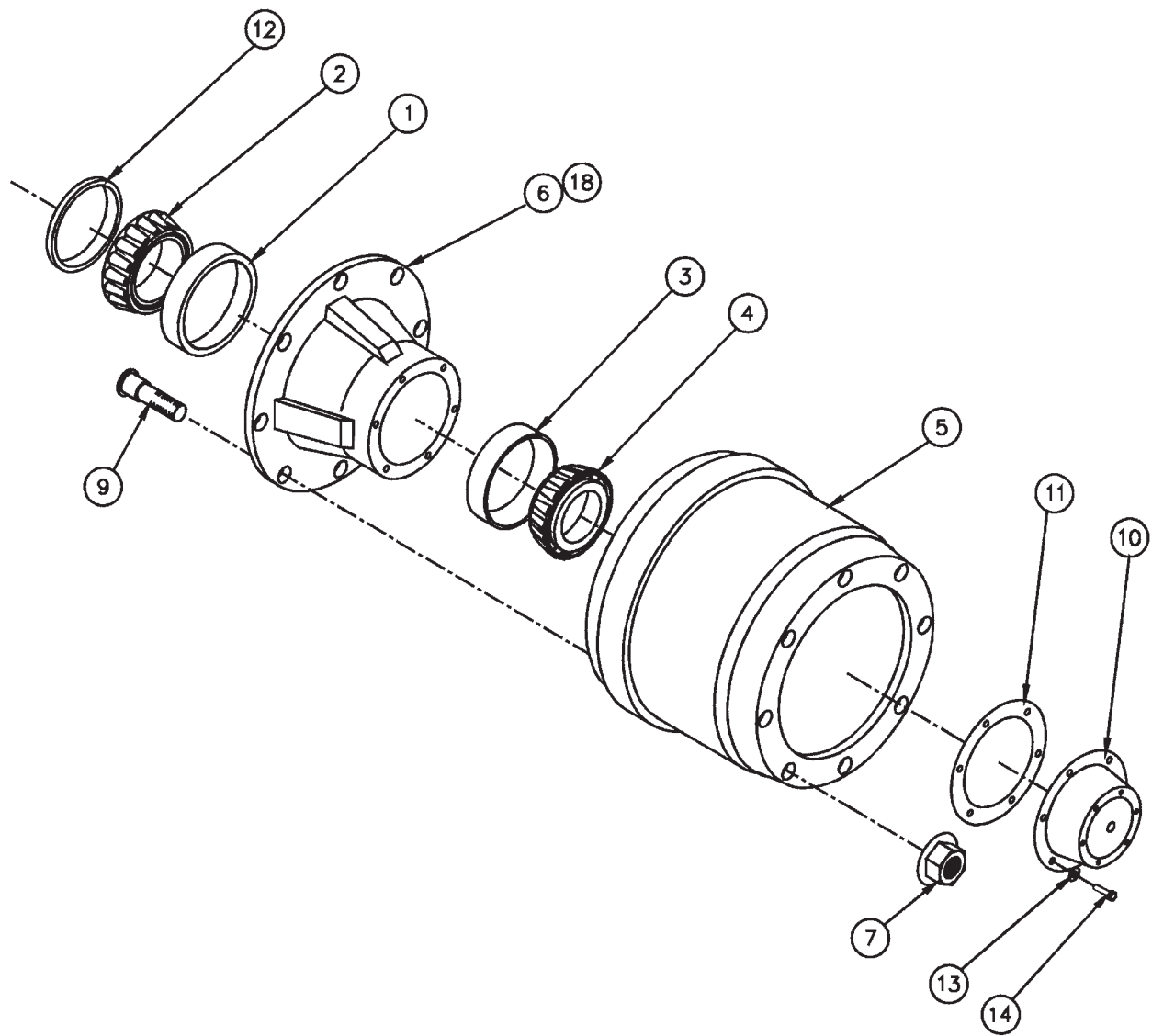


ma114584

Figure 1-44 Brake Kit, (Rockwell) ABS

## **BRAKE KIT (ROCKWELL) ABS**

| <b>ITEM</b> | <b>PART NO.</b> | <b>DESCRIPTION</b>                          | <b>QTY.</b> |
|-------------|-----------------|---------------------------------------------|-------------|
|             | 114584          | BRAKE KIT, ROCKWELL ABS, 4S/2M              |             |
|             | 114586          | BRAKE KIT, ROCKWELL ABS, 4S/2M TRI/SPD      |             |
| 1           | 114588          | ECU/VALVE ASSEMBLY                          | 1           |
| 2           | 101848          | SENSOR EXTENSION CABLE (114584)             | 1           |
|             | 103861          | SENSOR EXTENSION CABLE 3M (10 FT) (114586)  | 1           |
| 3           | 114590          | POWER/DIAGNOSTIC CABLE(SWITCH NOT INCL.)    | 1           |
| 4           | 101855          | WARNING LAMP LABEL (114584)                 | 1           |
| 5           | —               | INSTALLATION GUIDE (114584) (NOT SHOWN)     | 1           |
| 6           | 114587          | ABS MAINTENANCE MANUAL (114584) (NOT SHOWN) | 1           |
| 7           | 101851          | DIAGNOSTIC SWITCH                           | 1           |



103781

Figure 1-45 Outboard Pilot Mount Hub and Drum

## OUTBOARD PILOT MOUNT HUB AND DRUM ASSEMBLY

| ITEM | PART NO.          | DESCRIPTION                                             | QTY. |
|------|-------------------|---------------------------------------------------------|------|
| 1    | HM218210          | INNER BEARING CUP                                       | 1    |
| 2    | HM218248          | INNER BEARING CONE                                      | 1    |
| 3    | HM212011          | OUTER BEARING CUP                                       | 1    |
| 4    | HM212049          | OUTER BEARING CONE                                      | 1    |
| 5    | 110976(66884)     | OUTBOARD MOUNTED BRAKE DRUM                             | 1    |
| 6    | 110975(2023----T) | HUB W/ STUDS                                            | 1    |
| 7    | 179933            | NUT FLANGE MM22X1.5                                     | 10   |
| 9    | 101160            | STUD R.H. 22X1.2                                        | 10   |
| 10   | 021-038-01 (4009) | CAP, HUB                                                | 1    |
| 11   | 071-124-00 (3067) | GASKET, OIL CAP                                         | 1    |
| 12   | 3-659-010012      | SEAL                                                    | 1    |
| 13   | 1-861-010034-10   | WASHER, SPLIT LOCK 5/16                                 | 6    |
| 14   | 1-654-010049-03   | SCREW, HEX HEAD CAP 5/16-18 GR5                         | 6    |
| 15   | 3-870-010106      | WHEEL, POLISHED ALUM PILOT MNT 22.5 X 7.50 (10 BOLT)    | 1    |
|      | 111652            | WHEEL, PILOT MNT 22.5 X 8.25, PP(10 BOLT) (ALUM COLOR.) | 1    |
|      | 3-870-010116      | WHEEL, MACHINED ALUM PILOT MNT 22.5 X 7.50(10 BOLT)     | 1    |
|      | 3-870-010110      | WHEEL, DISC PILOT MNT 22.5 X 8.25 (10 BOLT)(STD. STEEL) | 1    |
|      | 111416            | WHEEL, ALUM PILOT 22.5 X 8.25 POL (10 BOLT)             | 1    |
|      | 111417            | WHEEL, ALUM PILOT 22.5 X 8.25 MACH (10 BOLT)            | 1    |
|      | 134757            | WHEEL, ALUM PILOT 22.5 X 8.25 POL (10 BOLT)             | 1    |
|      | 139600            | WHEEL, ALUM DURABRITE 255/70R GY (10 BOLT)              | 1    |
|      |                   | (NOT SHOWN)                                             |      |
| 16   | TR573             | VALVE STEM (NOT SHOWN)                                  | 1    |
|      | TR545D            | VALVE STEM (ALUM.) (NOT SHOWN)                          | 1    |
| 18   | *                 | ABS TONE RING                                           | 1    |
| 19   | **3-870-010107    | WHEEL GUARD 10 HOLE 285.75MM BC (NOT SHOWN)             |      |

\* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH HUB ONLY. IT SHOULD NEVER BE SOLD SEPARATELY.

\*\* USE BETWEEN STEEL DRUM OR WHEEL AND ALUMINUM WHEEL.

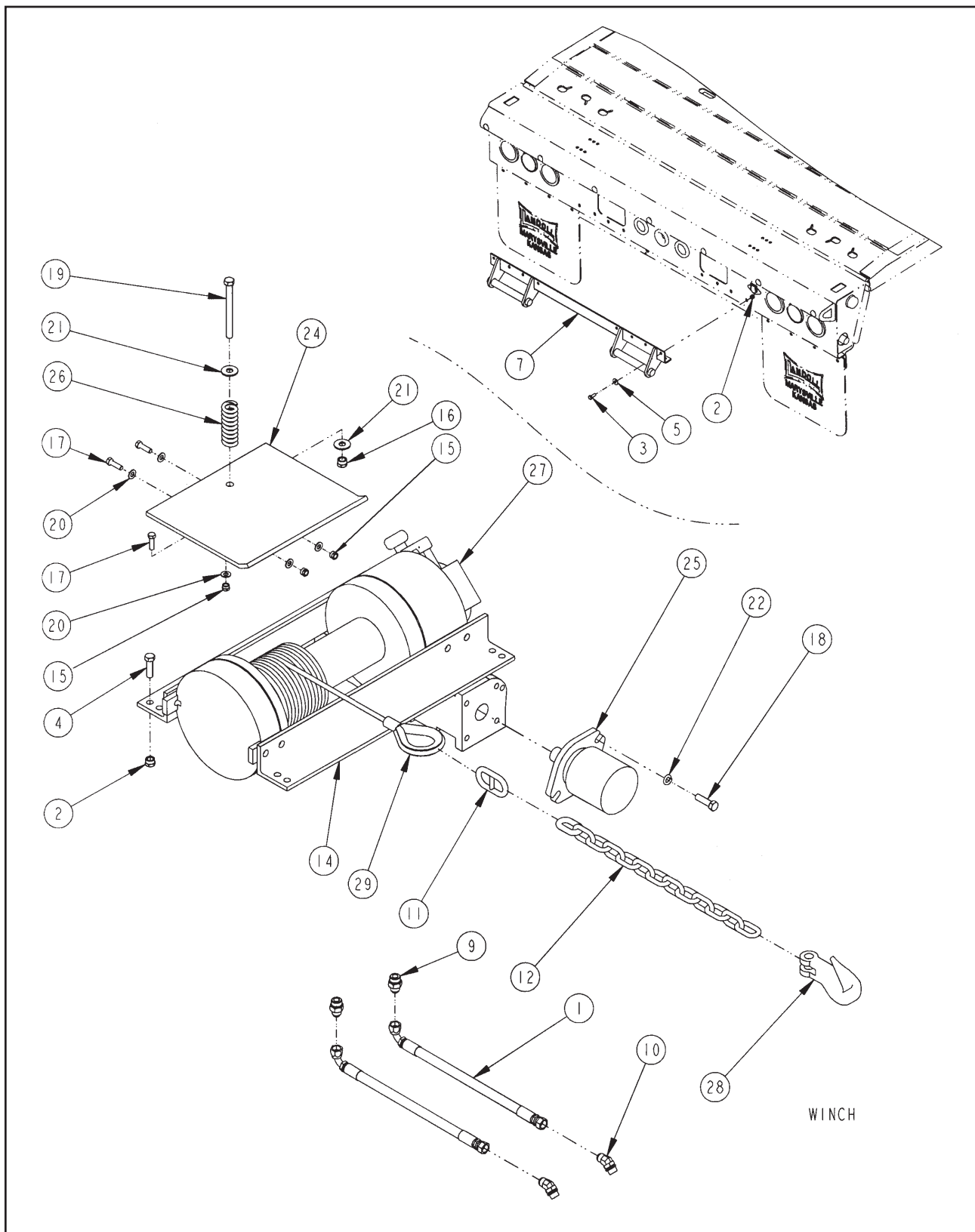
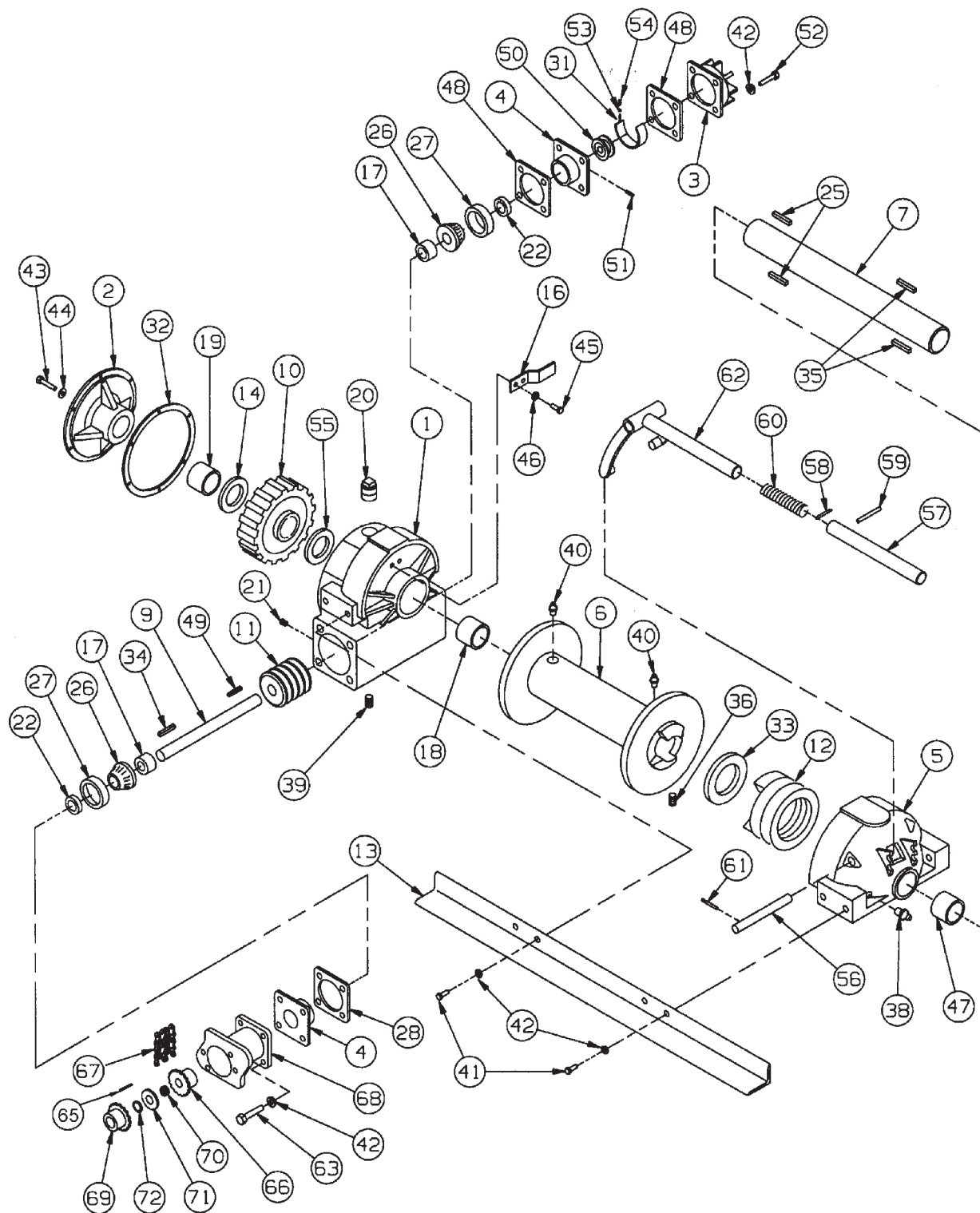


Figure 1-46 Winch Installation

## WINCH INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                                                         | QTY. |
|------|-----------------|---------------------------------------------------------------------|------|
|      | 105098          | WINCH INSTALLATION, 825 G/N 12K                                     |      |
|      | 105099          | WINCH INSTALLATION, 825 G/N 20K                                     |      |
|      | 130534          | WINCH INSTALLATION, 835 AG G/N 12K<br>(ITEMS 1-2,4,6,9-14,28,30-32) |      |
|      | 130535          | WINCH INSTALLATION, 835 AG G/N 20K<br>(ITEMS 1-2,4,6,9-14,28,30-32) |      |
| 1    | 1-397-010302060 | HOSE ASSEMBLY 1/2 X 60                                              | 2    |
| 2    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                            | 20   |
| 3    | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5                              | 12   |
| 4    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5                              | 8    |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2                                                    | 12   |
| 6    | 100600          | DECAL, WARNING BRADEN (NOT SHOWN)                                   | 1    |
| 7    | 105195          | ANCHOR WELDMENT                                                     | 1    |
| 8    | 105301          | HOOK, G/N CONNECT REAR PLATE (WELDED TO G/N)<br>(NOT SHOWN)         | 2    |
| 9    | 202702-10-8S    | ADAPTER, #10 O-RING                                                 | 2    |
| 10   | 2061-8-8S       | ADAPTER, 45, #8 O-RING (CONNECTS TO VALVE)                          | 2    |
| 11   | 3-174-010038    | CHAIN LINK CONNECTING 1/2                                           | 1    |
| 12   | 3-174-010039036 | CHAIN 1/2 X 36                                                      | 1    |
| 13   | 3-573-010299    | DECAL, WARNING WINCH (NOT SHOWN)                                    | 1    |
| 14   | 3-873-010126-2  | WINCH ASSEMBLY 12,000 LB (INCL ITEMS 15 - 27)                       | 1    |
|      | 3-873-010129-2  | WINCH ASSEMBLY 20,000 LB (INCL ITEMS 15 - 27)                       | 1    |
| 15   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                            | 3    |
| 16   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                            | 1    |
| 17   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5                              | 3    |
| 18   | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5                              | 2    |
| 19   | 1-654-010055-16 | SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5 (12K)                        | 1    |
|      | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5 (20K)                            | 1    |
| 20   | 1-861-010032-10 | WASHER, FLAT 3/8N                                                   | 6    |
| 21   | 1-861-010032-15 | WASHER, FLAT 1/2W                                                   | 1    |
| 22   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                                              | 2    |
| 23   | 100600          | DECAL, WARNING BRADEN (NOT SHOWN)                                   | 1    |
| 24   | 3-873-010124    | WINCH TENSIONER WLDMT 12K                                           | 1    |
|      | 102186          | WINCH TENSIONER 20K BRADEN SPRING                                   | 1    |
| 25   | 3-481-010006    | MOTOR, HYDRAULIC 12,000 LB (SEE PAGE 1-86)                          | 1    |
|      | 3-481-010007    | MOTOR, HYDRAULIC 20,000 LB (SEE PAGE 1-86)                          | 1    |
| 26   | 3-720-010010    | SPRING COMP LEVEL WIND                                              | 1    |
| 27   | 3-873-010122    | WINCH, WORM GEAR 12,000 LB (SEE PAGE 1-81)                          | 1    |
|      | 3-873-010123    | WINCH, WORM GEAR 20,000 LB (SEE PAGE 1-84)                          | 1    |
| 28   | 7HCGHT500       | CLEVIS GRAB HOOK                                                    | 1    |
| 29   | 3-155-010017-4  | CABLE, 1/2 W/ LOOP 85FT                                             | 1    |
|      | 3-155-010018-6  | CABLE, 5/8 W/ LOOP 85FT                                             | 1    |
| 30   | 1-647-010004259 | SPRING PIN, SLOTTED 3/8 X 3                                         | 1    |
| 31   | 130536          | PIN, HOOK ANCHOR                                                    | 1    |
| 32   | 516-22PTL       | RETAINING PIN MUD FLAP                                              | 1    |



3mb410-011559

Figure 1-47 12,000# Winch Assembly

## 12,000# WINCH ITEMS

| ITEM | PART NO.     | DESCRIPTION                             | QTY. |
|------|--------------|-----------------------------------------|------|
|      | 3-873-010122 | WINCH ASSY 12K                          | 1    |
| 1    | 81006        | WORM HOUSING ASSY (INCLUDES ITEM 18)    | 1    |
| 2    | 81009        | COVER ASSY WORM HOUSING (INCL ITEM 19)  | 1    |
| 3    | 18032        | HOUSING SAFETY BRAKE                    | 1    |
| 4    | 23303        | CONTAINER BEARING                       | 2    |
| 5    | 81530        | LEG ASSEMBLY BEARING (INCLUDES ITEM 47) | 1    |
| 6    | 11128        | DRUM CABLE                              | 1    |
| 7    | 11129        | DRUM SHAFT CABLE                        | 1    |
| 9    | 23470        | SHAFT WORM                              | 1    |
| 10   | 11144        | GEAR WORM LEFT HAND                     | 1    |
| 11   | 11142        | WORM LEFT HAND                          | 1    |
| 12   | 18039        | SLIDING CLUTCH                          | 1    |
| 13   | 22752        | ANGLE BASE                              | 2    |
| 14   | 13680        | THRUST RING                             | 1    |
| 16   | 81025        | BRAKE DRAG                              | 1    |
| 17   | 11308        | SPACER WORM                             | 2    |
| 18   | 18078        | BUSHING                                 | 1    |
| 19   | 11368        | BUSHING                                 | 1    |
| 20   | 22775        | PLUG PIPE                               | 1    |
| 21   | 18009        | PLUG PIPE                               | 1    |
| 22   | 18026        | SEAL GREASE                             | 2    |
| 25   | 11117        | KEY WORM GEAR                           | 2    |
| 26   | 18015        | CONE BEARING                            | 2    |
| 27   | 18016        | CUP BEARING                             | 2    |
| 28   | 18027        | GASKET                                  | 3    |
| 31   | 21925        | BAND BRAKE                              | 1    |
| 32   | 11133        | WORM HOUSING COVER GASKET               | 3    |
| 33   | 18019        | RETAINER RING                           | 1    |
| 34   | 18030        | KEY WORM                                | 1    |
| 35   | 18020        | KEY CLUTCH                              | 2    |
| 36   | 24032        | SETSCREW                                | 1    |
| 38   | 18047        | FITTING GREASE                          | 1    |
| 39   | 19045        | PLUG PIPE                               | 1    |
| 40   | 11799        | FITTING GREASE                          | 2    |
| 41   | 21961        | CAPSCREW                                | 12   |
| 42   | 18003        | WASHER LOCK                             | 16   |
| 43   | 11767        | CAPSCREW                                | 6    |
| 44   | 11011        | WASHER LOCK                             | 6    |
| 45   | 13005        | CAPSCREW                                | 2    |
| 46   | 12780        | WASHER LOCK                             | 2    |
| 47   | 18078        | BUSHING                                 | 1    |
| 48   | 18024        | BEARING CONTAINER GASKET                | 3    |
| 49   | 10078        | KEY                                     | 1    |
| 50   | 18028        | DRUM BRAKE                              | 1    |
| 51   | 12075        | SETSCREW                                | 1    |
| 52   | 22703        | CAPSCREW                                | 4    |
| 53   | 13468        | JAM NUT                                 | 4    |
| 54   | 18029        | BRAKE BAND SPRING                       | 1    |

## 12,000# WINCH ITEMS

| ITEM | PART NO. | DESCRIPTION                 | QTY. |
|------|----------|-----------------------------|------|
| 55   | 11240    | RETAINER RING               | 1    |
| 56   | 11130    | SHIFTER SHAFT               | 1    |
| 57   | 12817    | SHIFTER HANDLE              | 1    |
| 58   | 18056    | ROLLPIN                     | 1    |
| 59   | 13028    | ROLLPIN                     | 1    |
| 60   | 18002    | SPRING                      | 1    |
| 61   | 11837    | ROLLPIN                     | 2    |
| 62   | 13839    | SHIFTER FORK                | 1    |
| 63   | 22704    | CAPSCREW                    | 4    |
| 65   | 18044    | KEY                         | 1    |
| 66   | 23081    | COUPLING HALF (WORM SHAFT)  | 1    |
| 67   | 13424    | ROLLER CHAIN                | 1    |
| 68   | 23079    | MOTOR ADAPTER               | 1    |
| 69   | 23083    | COUPLING HALF (MOTOR SHAFT) | 1    |
| 70   | 23353    | SPRING                      | 1    |
| 71   | 23078    | SPACER                      | 1    |
| 72   | 23085    | SPACER                      | 1    |

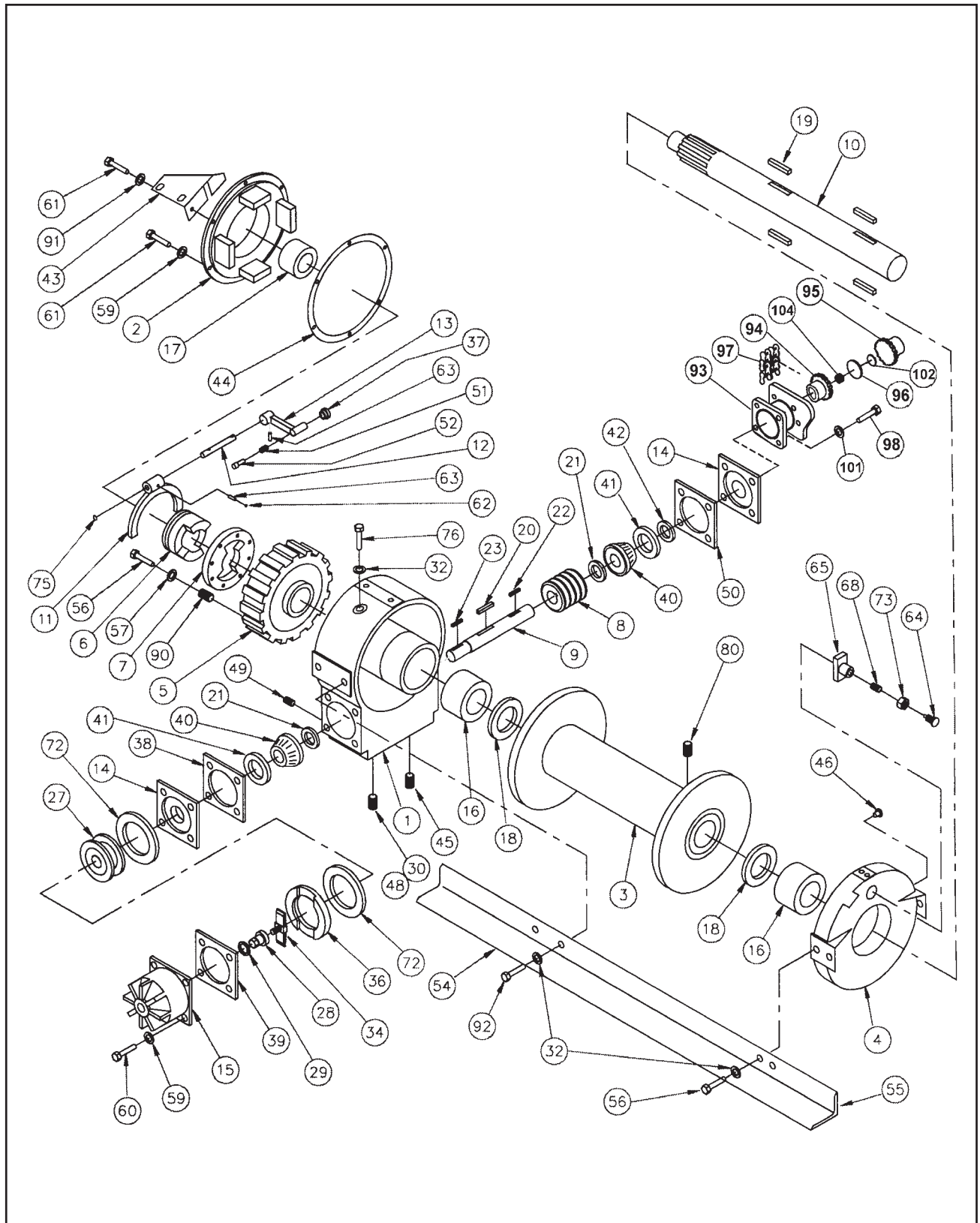


Figure 1-48 20,000# Winch Assembly

## 20,000# WINCH ITEMS

| ITEM | PART NO.     | DESCRIPTION                   | QTY. |
|------|--------------|-------------------------------|------|
|      | 3-873-010123 | WINCH 20000# W/BOLT-ON ANGLES |      |
| 1    | 81078        | WORM HOUSING ASSEMBLY         | 1    |
| 2    | 81082        | COVER ASSEMBLY WORM HOUSING   | 1    |
| 3    | 11449        | DRUM CABLE                    | 1    |
| 4    | 81077        | LEG ASSEMBLY BEARING          | 1    |
| 5    | 11434        | WORM GEAR RIGHT               | 1    |
| 6    | 11421        | CLUTCH SLIDING                | 1    |
| 7    | 11419        | DRIVE CLUTCH                  | 1    |
| 8    | 11404        | WORM RIGHT                    | 1    |
| 9    | 11405        | SHAFT WORM                    | 1    |
| 10   | 11414        | SHAFT CABLE DRUM              | 1    |
| 11   | 11440        | FORK SHIFTER                  | 1    |
| 12   | 11441        | SHAFT SHIFTER                 | 1    |
| 13   | 11442        | HANDLE SHIFTER                | 1    |
| 14   | 11427        | CONTAINER BEARING             | 2    |
| 15   | 11445        | COVER WORM BRAKE              | 1    |
| 16   | 18035        | BUSHING                       | 2    |
| 17   | 11425        | BUSHING                       | 1    |
| 18   | 11420        | RING RETAINING                | 2    |
| 19   | 22055        | DRUM KEY CABLE                | 4    |
| 20   | 11402        | KEY WORM                      | 1    |
| 21   | 11407        | SPACER WORM                   | 2    |
| 22   | 23367        | KEY SPROCKET                  | 1    |
| 23   | 10078        | KEY ROTOR                     | 1    |
| 27   | 81080        | ROTOR ASSEMBLY BRAKE          | 1    |
| 28   | 11599        | ADJUSTING NUT WORM BRAKE      | 1    |
| 29   | 12465        | O-RING                        | 1    |
| 30   | 19014        | PLUG FILLER                   | 1    |
| 32   | 11026        | WASHER LOCK                   | 10   |
| 34   | 81081        | SPRING ASSEMBLY SAFETY BRAKE  | 1    |
| 36   | 11431        | PLATE PRESSURE                | 1    |
| 37   | 18022        | KNOB SHIFTER                  | 1    |
| 38   | 11429        | GASKET                        | 4    |
| 39   | 11446        | GASKET                        | 2    |
| 40   | 18033        | BEARING CONE                  | 2    |
| 41   | 18034        | BEARING CUP                   | 2    |
| 42   | 12073        | SEAL GREASE                   | 1    |
| 43   | 12783        | BRACKET SHIFTER               | 1    |
| 44   | 11411        | COVER GASKET HOUSING          | 1    |
| 45   | 19045        | PLUG DRAIN                    | 1    |
| 46   | 18047        | FITTING GREASE                | 1    |
| 48   | 22775        | PLUG VENT                     | 1    |
| 49   | 18009        | PLUG LEVEL                    | 1    |
| 50   | 11430        | GASKET                        | 4    |
| 51   | 11310        | SPRING SHIFTER KNOB           | 1    |
| 52   | 11309        | STEM SHIFTER KNOB             | 1    |
| 54   | 28942        | ANGLE FRONT BASE              | 1    |
| 55   | 28943        | ANGLE REAR BASE               | 1    |
| 56   | 13938        | CAPSCREW                      | 16   |

## 20,000# WINCH ITEMS

| ITEM | PART NO. | DESCRIPTION                    | QTY. |
|------|----------|--------------------------------|------|
| 57   | 12781    | WASHER LOCK                    | 8    |
| 59   | 11025    | WASHER LOCK                    | 3    |
| 60   | 22695    | CAPSCREW                       | 4    |
| 61   | 21965    | CAPSCREW                       | 6    |
| 62   | 12146    | PLUG EXPANSION                 | AR   |
| 63   | 13028    | ROLLPIN                        | AR   |
| 64   | 11398    | SCREW ADJUSTING                | 1    |
| 65   | 88005    | SHOE ASSEMBLY DRAG BRAKE       | 1    |
| 68   | 18002    | SHOE ASSEMBLY DRAG BRAKE       | 1    |
| 72   | 11426    | DISC FRICTION                  | 2    |
| 73   | 11791    | NUT JAM                        | 1    |
| 75   | 12767    | PLUG EXPANSION                 | AR   |
| 76   | 22729    | CAPSCREW                       | 2    |
| 77   | 23245    | SAE PLATE-AMU7-16F (NOT SHOWN) | 1    |
| 78   | 23310    | PLATE WARNING (NOT SHOWN)      | 1    |
| 79   | 11842    | SCREW DRIVE (NOT SHOWN)        | 4    |
| 80   | 12228    | SCREW SET                      | 1    |
| 90   | 11435    | INSERT THREAD                  | 8    |
| 91   | 11014    | LOCKWASHER                     | 1    |
| 92   | 22697    | CAPSCREW                       | 5    |
| 93   | 23144    | ADAPTER - MOTOR                | 1    |
| 94   | 23081    | COUPLING HALF-WINCH            | 1    |
| 95   | 23142    | COUPLING HALF-MOTOR            | 1    |
| 96   | 23078    | SPACER - CONSTANT              | 1    |
| 97   | 13424    | ROLLER CHAIN                   | 1    |
| 98   | 22704    | CAPSCREW                       | 4    |
| 99   | 13413    | CAPSCREW (NOT SHOWN)           | 4    |
| 100  | 18003    | LOCKWASHER (NOT SHOWN)         | 4    |
| 101  | 11026    | LOCKWASHER                     | 4    |
| 102  | 23183    | SPACER - VARIABLE              | 2    |
| 103  | 22703    | CAPSCREW (NOT SHOWN)           | 4    |
| 104  | 23353    | SPRING - SPACER                | 1    |

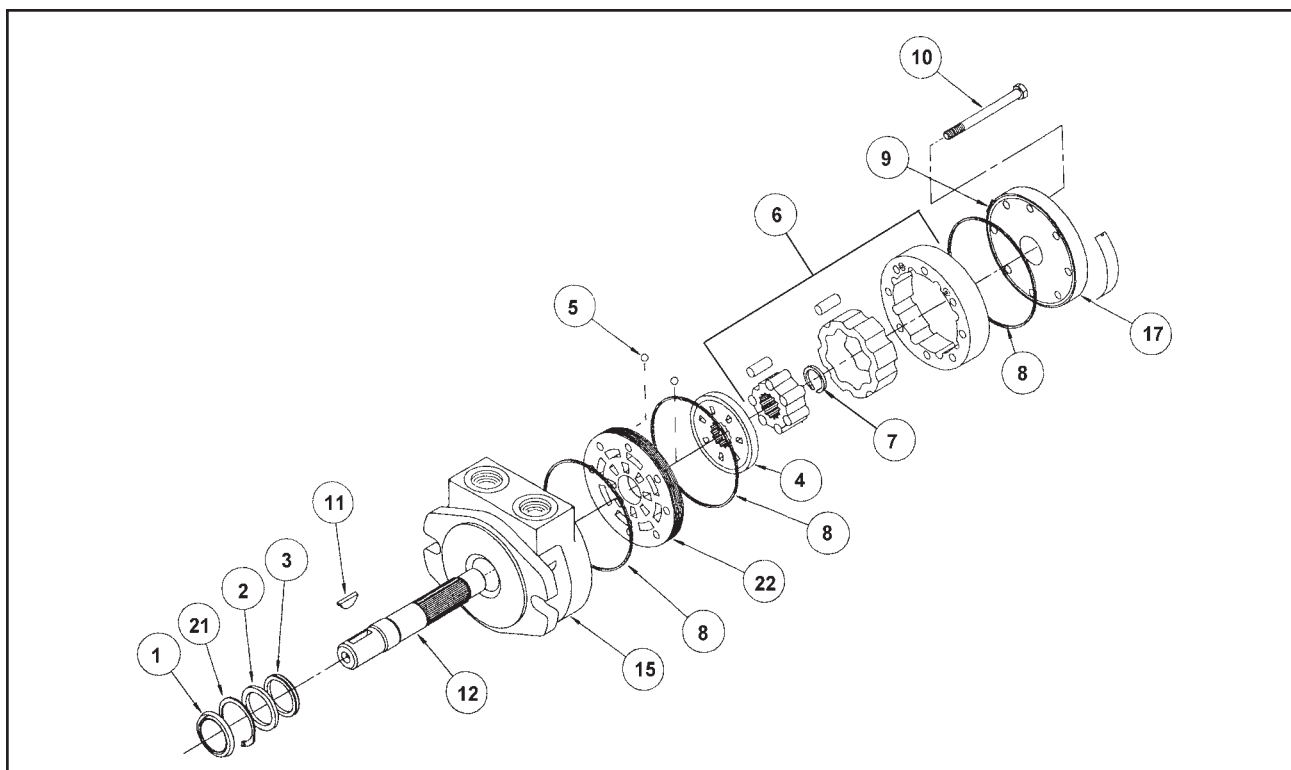


Figure 1-49 Winch Motor Assembly

## WINCH MOTOR ASSEMBLY

| ITEM | PART NO.     | DESCRIPTION                                  | QTY. |
|------|--------------|----------------------------------------------|------|
|      | 3-481-010007 | MOTOR HYD. (FOR 20K WINCH)                   | 1    |
|      | 3-481-010006 | MOTOR HYD (FOR 12K WINCH)                    | 1    |
| 1    | 2183         | SEAL DUST                                    | 1    |
| 2    | 2177         | BACK-UP RING                                 | 1    |
| 3    | 2175         | SEAL, LIP                                    | 1    |
| 4    | 1644         | ROTARY VALVE                                 | 1    |
| 5    | 1021         | CHECK VALVE BALL                             | 2    |
| 6    | 1004-6       | IGR, ASSY (FOR 20K WINCH)                    | 1    |
|      | 1004-3       | IGA, ASSY (FOR 12K WINCH)                    | 1    |
| 7    | 1296         | SNAP RING                                    | 1    |
| 8    | 1046         | SQUARE RING SEAL                             | 3    |
| 9    | 1019-4       | PLUG, VENT W/O-RING 7/16-20                  | 1    |
| 10   | 1014-4       | BOLTS, HEX 5/16-24 (FOR 20K WINCH)           | 8    |
|      | 1114-5       | BOLTS, HEX 5/16-24 (FOR 12K WINCH)           | 8    |
| 11   | 1655         | KEY, WOODRUFF                                | 1    |
| 12   | 2265-6       | SHAFT, 1.25" 14 TOOTH SPLINE (FOR 20K WINCH) | 1    |
|      | 2109-3       | SHAFT, 1" KEYED (FOR 12K WINCH)              | 1    |
| 15   | M110AB-4     | BODY/BEARING ASSY (FOR 20K WINCH)            | 1    |
|      | PA-2328-2    | BODY/BEARING ASSY (FOR 12K WINCH)            | 1    |
| 17   | M110C-1      | COVER/BEARING ASSY                           | 1    |
| 21   | 2180         | SNAP RING, SHAFT                             | 1    |
| 22   | 1865         | COMMUNTATOR PLATE                            | 1    |
|      | 2263         | SEAL KIT, BODY                               | 1    |
|      | 2480         | SEAL KIT, BODY, VITON                        | 1    |

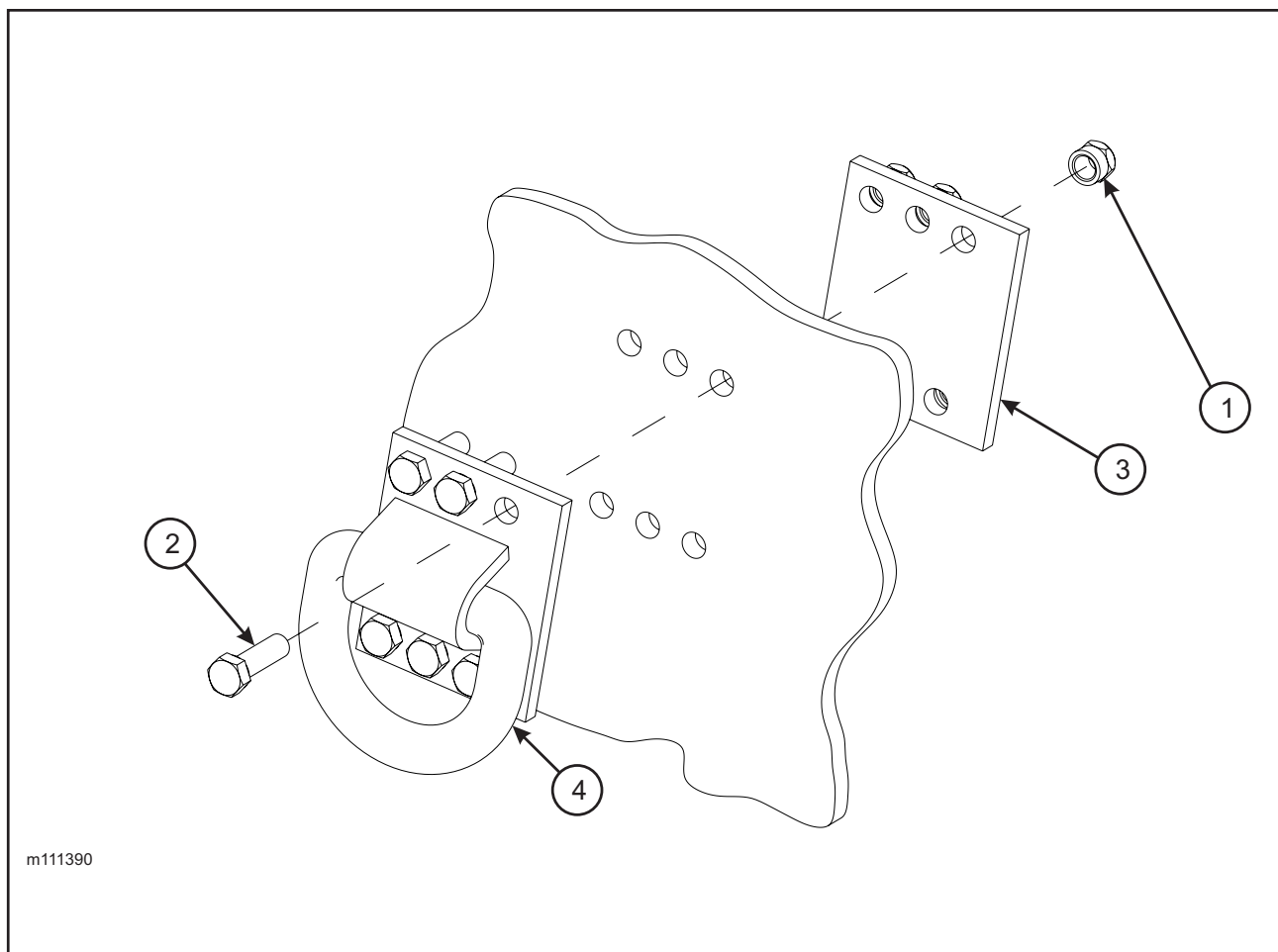
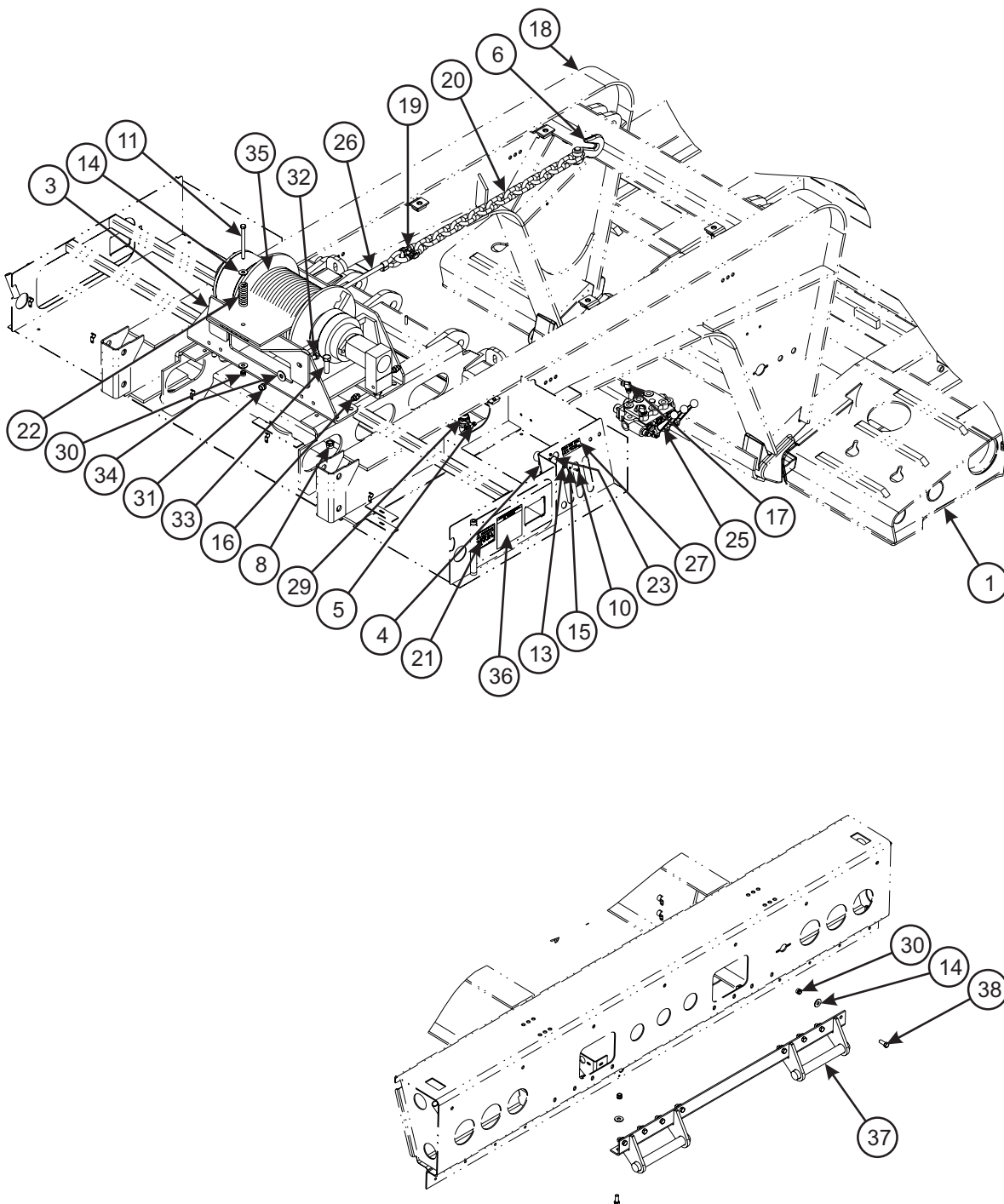


Figure 1-50 Bolt-On D-Ring Assembly (Option)

### BOLT-ON D-RING ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                           | QTY. |
|------|-----------------|---------------------------------------|------|
|      | 111390          | D-RING ASSEMBLY, BOLT-ON              |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB              | 6    |
| 2    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X1-3/4 GR5 | 6    |
| 3    | 111382          | MOUNT, TIE DOWN                       | 1    |
| 4    | 3-793-010040    | TIE DOWN, WINCH                       | 1    |



m137548

Figure 1-51 30K DP Winch Installation

## 30K DP WINCH INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                                 | QTY. |
|------|-----------------|---------------------------------------------|------|
|      | 137548          | 30K DP WINCH INSTALLATION                   |      |
| 1    | -----           | FRAME WELDMENT                              | REF  |
| 3    | 111641          | WINCH TENSIONER WELDMENT                    | 1    |
| 4    | 1-297-010008-07 | FITTING, AIR 90                             | 2    |
| 5    | 1-297-010015-03 | FITTING, AIR BR TEE                         | 1    |
| 6    | 1-382-010035-06 | HOOK, CLEVIS GRAM 5/8 GR80                  | 1    |
| 7    | 1-397-010302050 | HOSE ASSEMBLY, 1/2 X 50 (NOT SHOWN)         | 2    |
| 8    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                    | 8    |
| 10   | 1-654-010024079 | SCREW, MACH FILISTER #10-32 X 3/4           | 2    |
| 11   | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5          | 1    |
| 12   | 1-833-010001    | TUBING, NYLON 1/4                           | 10   |
| 13   | 1-861-010032-03 | WASHER, FLAT #10                            | 2    |
| 14   | 1-861-010032-15 | WASHER, FLAT 1/2W                           | 14   |
| 15   | 1-861-010034-07 | WASHER, SPLIT LOCK #10                      | 2    |
| 16   | 202702-8-8S     | ADAPTER                                     | 2    |
| 17   | 2062-8-8S       | ADAPTER 90                                  | 2    |
| 18   | -----           | GOOSENECK WELDMENT                          | REF  |
| 19   | 3-174-010059    | CHAIN LINK, CONNECTING 5/8                  | 1    |
| 20   | 3-174-010060036 | CHAIN, 5/8 X 36 GR 80                       | 1    |
| 21   | 3-573-010299    | DECAL, WARNING WINCH CABLE                  | 1    |
| 22   | 3-720-010010    | SPRING, COMPRESSION                         | 1    |
| 23   | 3-843-010008    | VALVE, AIR 3 WAY 2 POS PUSH-PULL            | 1    |
| 25   | 3-846-010159    | VALVE ASSEMBLY, 3 SPOOL (SEE PAGE 1-51)     | 1    |
| 26   | 132833          | CABLE ASSEMBLY 5/8 X 85 FLEX                | REF  |
| 27   | 135184          | DECAL, WINCH FREE SPOOL                     | 1    |
| 29   | 905-54-107      | BRAKE PROTECTION VALVE                      | REF  |
| 30   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                    | 13   |
| 31   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                    | 2    |
| 32   | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11 X 2 GR5          | 2    |
| 33   | 1-654-010061-07 | SCREW, HEX HEAD CAP 5/8-10 X 2-1/2 GR5      | 8    |
| 34   | 1-861-010032-19 | WASHER, FLAT 5/8W                           | 2    |
| 35   | 3-873-010173    | WINCH, 30K PLANETARY UWD DP (SEE PAGE 1-93) | 1    |
| 36   | 100600          | DECAL, WARNING BRADEN WINCH                 | 1    |
| 37   | 105195          | ANCHOR WELDMENT                             | 1    |
| 38   | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5      | 12   |

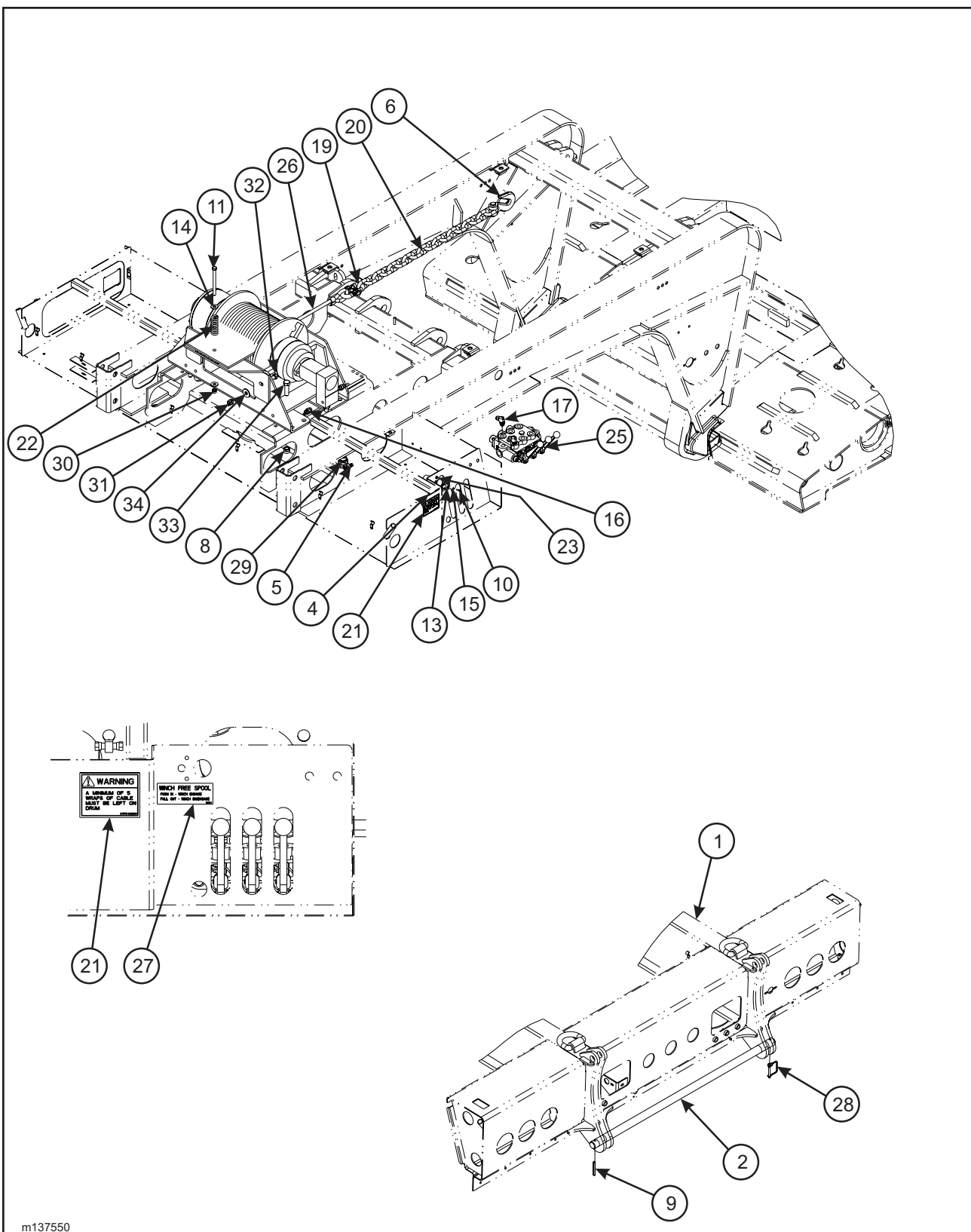
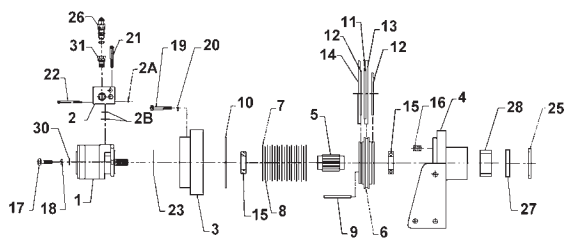


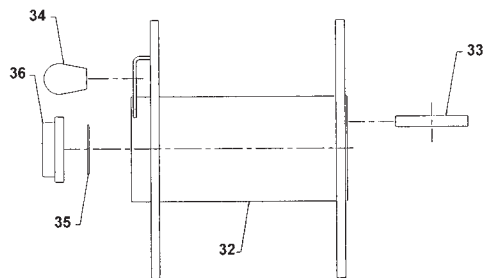
Figure 1-52 30K DP Winch Installation

## 30K DP WINCH INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 137550          | 30K DP WINCH INSTALLATION                  |      |
| 1    | -----           | FRAME WELDMENT                             | REF  |
| 2    | 130536          | PIN, HOOK ANCHOR                           | 1    |
| 3    | 111641          | WINCH TENSIONER WELDMENT                   | 1    |
| 4    | 1-297-010008-07 | FITTING, AIR 90                            | 2    |
| 5    | 1-297-010015-03 | FITTING, AIR BR TEE                        | 1    |
| 6    | 1-382-010035-06 | HOOK, CLEVIS GRAB 5/8 GR80                 | 1    |
| 7    | 1-397-010302050 | HOSE ASSEMBLY, 1/2 X 50 (NOT SHOWN)        | 2    |
| 8    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                   | 8    |
| 9    | 1-647-010004259 | ROLL PIN, SLOTTED 3/8 X 3                  | 1    |
| 10   | 1-654-010024079 | SCREW, MACH FILISTER #10-32 X 3/4          | 2    |
| 11   | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5         | 1    |
| 12   | 1-833-010001    | TUBING, NYLON 1/4                          | 10   |
| 13   | 1-861-010032-03 | WASHER, FLAT #10                           | 2    |
| 14   | 1-861-010032-15 | WASHER, FLAT 1/2W                          | 2    |
| 15   | 1-861-010034-07 | WASHER, SPLIT LOCK #10                     | 2    |
| 16   | 202702-8-8S     | ADAPTER                                    | 2    |
| 17   | 2062-8-8S       | ADAPTER 90                                 | 2    |
| 18   | -----           | GOOSENECK WELDMENT                         | REF  |
| 19   | 3-174-010059    | CHAIN LINK, CONNECTING 5/8                 | 1    |
| 20   | 3-174-010060036 | CHAIN, 5/8 X 36 GR 80                      | 1    |
| 21   | 3-573-010299    | DECAL, WARNING WINCH CABLE                 | 1    |
| 22   | 3-720-010010    | SPRING, COMPRESSION                        | 1    |
| 23   | 3-843-010008    | VALVE, AIR 3 WAY 2 POS PUSH-PULL           | 1    |
| 25   | 3-846-010159    | VALVE ASSEMBLY, 3 SPOOL (SEE PAGE 1-51)    | 1    |
| 26   | 132833          | CABLE ASSEMBLY 5/8 X 85 FLEX               | REF  |
| 27   | 135184          | DECAL, WINCH FREE SPOOL                    | 1    |
| 28   | 516-22PTL       | PIN, MUD FLAP                              | 1    |
| 29   | 905-54-107      | BRAKE PROTECTION VALVE                     | REF  |
| 30   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                   | 1    |
| 31   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                   | 2    |
| 32   | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11 X 2 GR5         | 2    |
| 33   | 1-654-010061-07 | SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5     | 8    |
| 34   | 1-861-010032-19 | WASHER, FLAT 5/8W                          | 2    |
| 35   | 3-873-010173    | WINCH, 30K PLANETARY UWD DP(SEE PAGE 1-93) | 1    |



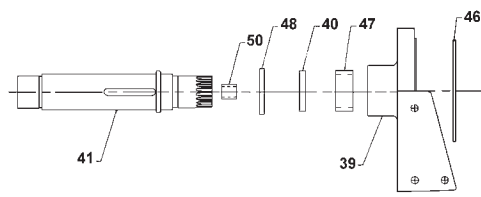
**MOTOR END INSTALLATION**



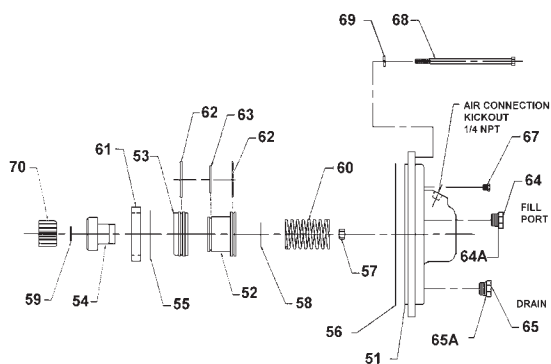
**DRUM INSTALLATION**



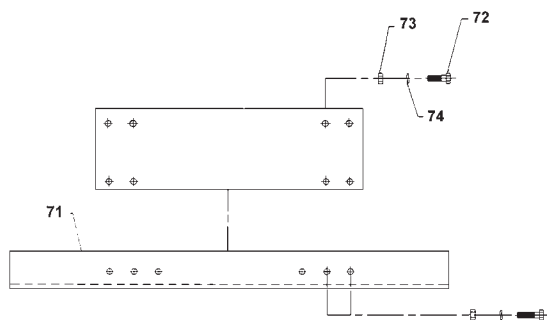
**INPUT SHAFT INSTALLATION**



**GEAR END INSTALLATION**



**AIR/HYDRAULIC KICKOUT  
GEAR END COVER INSTALLATION**



**BASE MOUNT INSTALLATION**

**Figure 1-53 30K DP Winch Installation**

## 30,000# WINCH ITEMS

| ITEM                            | PART NO.     | DESCRIPTION                                    | QTY. |
|---------------------------------|--------------|------------------------------------------------|------|
|                                 | 3-873-010173 | WINCH 30K ITEMS                                |      |
|                                 | 137724       | BRACKET, BASE                                  |      |
|                                 | 145690       | WINCH, 30K DP HIGH MOUNT                       |      |
| <b>MOTOR END INSTALLATION</b>   |              |                                                |      |
| 1                               | 73174        | MOTOR, HYDRAULIC                               | 1    |
| 2                               | 13330        | VALVE, COUNTERBALANCE                          | 1    |
| 2A                              | 9612         | O-RING, 1/8 I.D. X 3/32 SECTION                | 2    |
| 2B                              | 9972         | O-RING, 5/8 I.D. X 13/16 X 3/32 SECTION        | 2    |
| 3                               | 13316        | BRAKE HOUSING                                  | 1    |
| 4                               | 13299        | SUPPORT MOTOR END                              | 1    |
| 5                               | 11750        | SHAFT BRAKE                                    | 1    |
| 6                               | 11443        | PISTON BRAKE                                   | 1    |
| 7                               | 11603        | PLATE DISC FRICTION                            | 10   |
| 8                               | 3159         | PLATE DRIVE BRAKE                              | 9    |
| 9                               | 3263         | PIN DOWEL 5/16 DIA. X 3-1/2                    | 2    |
| 10                              | 9844         | O-RING, 7 O.D. X 6-3/4 I.D.                    | 1    |
| 11                              | 9853         | O-RING, 6-1/2 I.D. X 3/16 SECTION              | 1    |
| 12                              | 9851         | O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION | 2    |
| 13                              | 9854         | RING, BACK-UP                                  | 1    |
| 14                              | 9852         | RING, BACK-UP 5-3/8 I.D.                       | 1    |
| 15                              | 81434        | BEARING BALL 1-3/4 I.D.                        | 2    |
| 16                              | 2319         | SPRING COMPRESSION                             | 12   |
| 17                              | 1402         | CAP SCREW HEX HEAD 1/2-13 X 1-1/4              | 2    |
| 18                              | 1495         | WASHER LOCK 1/2                                | 2    |
| 19                              | 1376         | SCREW CAP HEX HEAD 7/16 X 2-1/2                | 6    |
| 20                              | 1388         | WASHER LOCK 7/16                               | 6    |
| 21                              | 1188         | SCREW CAP SOCKET HEAD 5/16 X 3                 | 4    |
| 22                              | 4042         | SCREW CAP SOCKET HEAD 1/4-20 X 3-3/4           | 1    |
| 23                              | 9880         | O-RING 3 I.D. X 1/8 SECTION                    | 1    |
| 24                              | 10708        | TAG WARNING                                    | 1    |
| 25                              | 9890         | SEAL SHAFT                                     | 1    |
| 26                              | 3177         | CARTRIDGE COUNTERBALANCE                       | 1    |
| 27                              | 13288        | WASHER THRUST BRONZE                           | 1    |
| 28                              | 81454        | BEARING -TORRINGTON                            | 1    |
| 30                              | 1498         | WASHER FLAT 1/2 SAE                            | 2    |
| 31                              | 13356        | ASSEMBLY PLUG                                  | 1    |
| <b>DRUM INSTALLATION</b>        |              |                                                |      |
| 32                              | 13285        | DRUM                                           | 1    |
| 33                              | 11977        | KEY DRUM                                       | 2    |
| 34                              | 10525        | WEDGE CABLE 5/8                                | 1    |
| 35                              | 9672         | O-RING 2-5/8 ID X 1/8 W                        | 1    |
| 36                              | 13286        | SPACER                                         | 1    |
| <b>INPUT SHAFT INSTALLATION</b> |              |                                                |      |
| 37                              | 13317        | SHAFT INPUT                                    | 1    |

## 30,000# WINCH ITEMS

| ITEM                                                | PART NO. | DESCRIPTION                                  | QTY. |
|-----------------------------------------------------|----------|----------------------------------------------|------|
| <b>GEAR END INSTALLATION</b>                        |          |                                              |      |
| 38                                                  | 3126     | GEAR RING                                    | 1    |
| 39                                                  | 13300    | SUPPORT GEAR END                             | 1    |
| 40                                                  | 13288    | WASHER THRUST                                | 1    |
| 41                                                  | 13301    | SHAFT OUTPUT                                 | 1    |
| 42                                                  | 13164    | WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION  | 2    |
| 43                                                  | 12486    | CARRIER ASSEMBLY PRIMARY                     | 1    |
| 44                                                  | 12516    | CARRIER ASSEMBLY SECONDARY                   | 1    |
| 45                                                  | 10848    | LABEL WARNING                                | 1    |
| 46                                                  | 9695     | O-RING 8-3/4 I.D. X 1/8 SECTION              | 1    |
| 47                                                  | 81454    | BEARING                                      | 1    |
| 48                                                  | 9890     | SEAL SHAFT                                   | 1    |
| 49                                                  | 13306    | GEAR SUN                                     | 1    |
| 50                                                  | 81608    | BUSHING ID 1-1/4 OD X 1 LG                   | 1    |
| <b>AIR/HYD. KICKOUT GEAR END COVER INSTALLATION</b> |          |                                              |      |
| 51                                                  | 13675    | COVER GEAR END                               | 1    |
| 52                                                  | 13295    | PISTON AKO B/C/D                             | 1    |
| 53                                                  | 13296    | CYLINDER PISTON                              | 1    |
| 54                                                  | 13297    | COUPLING DRIVE                               | 1    |
| 55                                                  | 3632     | RING RETAINING RD SEC 3 O.D. X .10 SEC       | 1    |
| 56                                                  | 9695     | O-RING 8-3/4 I.D. X 1/8 SECTION              | 1    |
| 57                                                  | 81612    | BUSHING BRONZE 3/8 I.D. X 3/8 L              | 1    |
| 58                                                  | 3303     | RING RETAINING 1-1/4                         | 1    |
| 59                                                  | 3321     | RING RETAINING RD SEC .805 I.D.              | 1    |
| 60                                                  | 2309     | SPRING COMPRESSION                           | 1    |
| 61                                                  | 13288    | WASHER THRUST BRONZE 3.81 X .406 W           | 1    |
| 62                                                  | 9672     | O-RING 2-5/8 I.D. X 1/8 SECTION              | 2    |
| 63                                                  | 9704     | O-RING 2-1/8 I.D. X 2-3/8 O.D.               | 1    |
| 64                                                  | 76344    | PLUG SKT HD O-RING #10 7/8 - 14              | 1    |
| 64A                                                 | 9992     | O-RING .755 I.D. X .097 W 3-910              | 1    |
| 65                                                  | 76343    | PLUG SKT HD O-RING MAG #10                   | 1    |
| 65A                                                 | 9992     | O-RING .755 I.D. X .097 W 3-910              | 1    |
| 66                                                  | 1157     | CAPLUG #4 RED                                | 1    |
| 67                                                  | 3059     | RELIEF VENT                                  | 1    |
| 68                                                  | 1317     | SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2          | 12   |
| 69                                                  | 1395     | WASHER LOCK 3/8                              | 12   |
| 70                                                  | 13235    | GEAR SUN AKO                                 | 1    |
| <b>BASE MOUNT INSTALLATION</b>                      |          |                                              |      |
| 71                                                  | 14068    | BASE MOUNT CUSTOM - B SERIES - A LENGTH      | 2    |
| 72                                                  | 1505     | SCREW CAP HEX HAD 5/8-11 X 2-1/4 GR5         | 12   |
| 73                                                  | 1590     | NUT HEX 5/8 - 11 GR2                         | 12   |
| 74                                                  | 1595     | WASHER LOCK 5/8 MEDIUM PLAIN                 | 12   |
| 75                                                  | 1165     | RIVET DRIVE U TYPE #2 X 1/4 LONG (NOT SHOWN) | 4    |
| 76                                                  | 10466    | PLATE INFORMATION (NOT SHOWN)                | 1    |

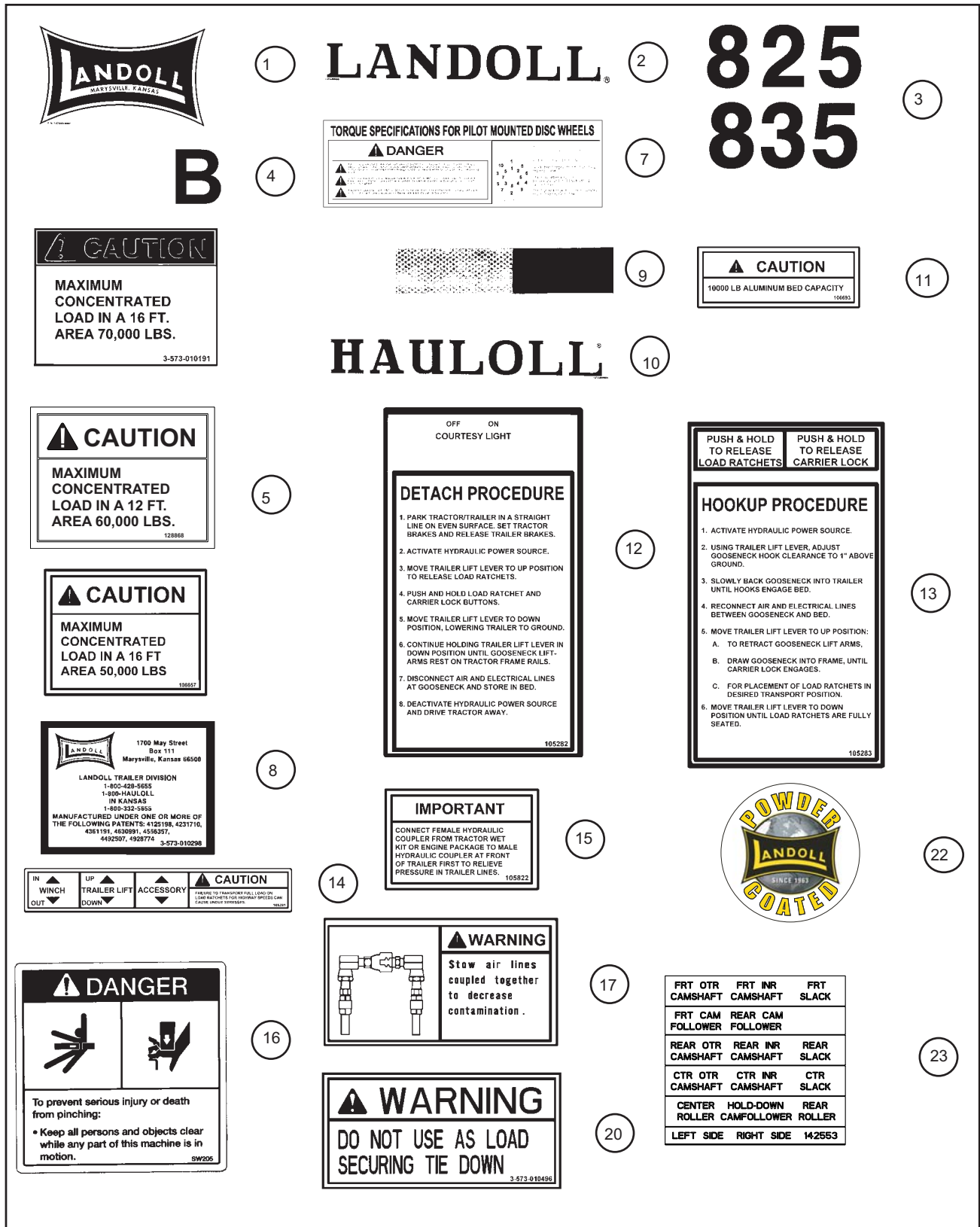


Figure 1-54 Decals

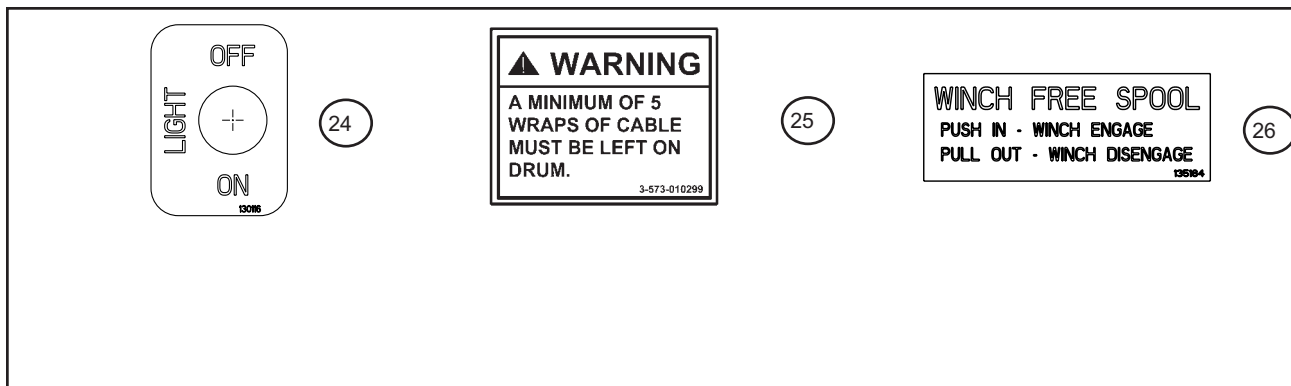


Figure 1-55 Decals

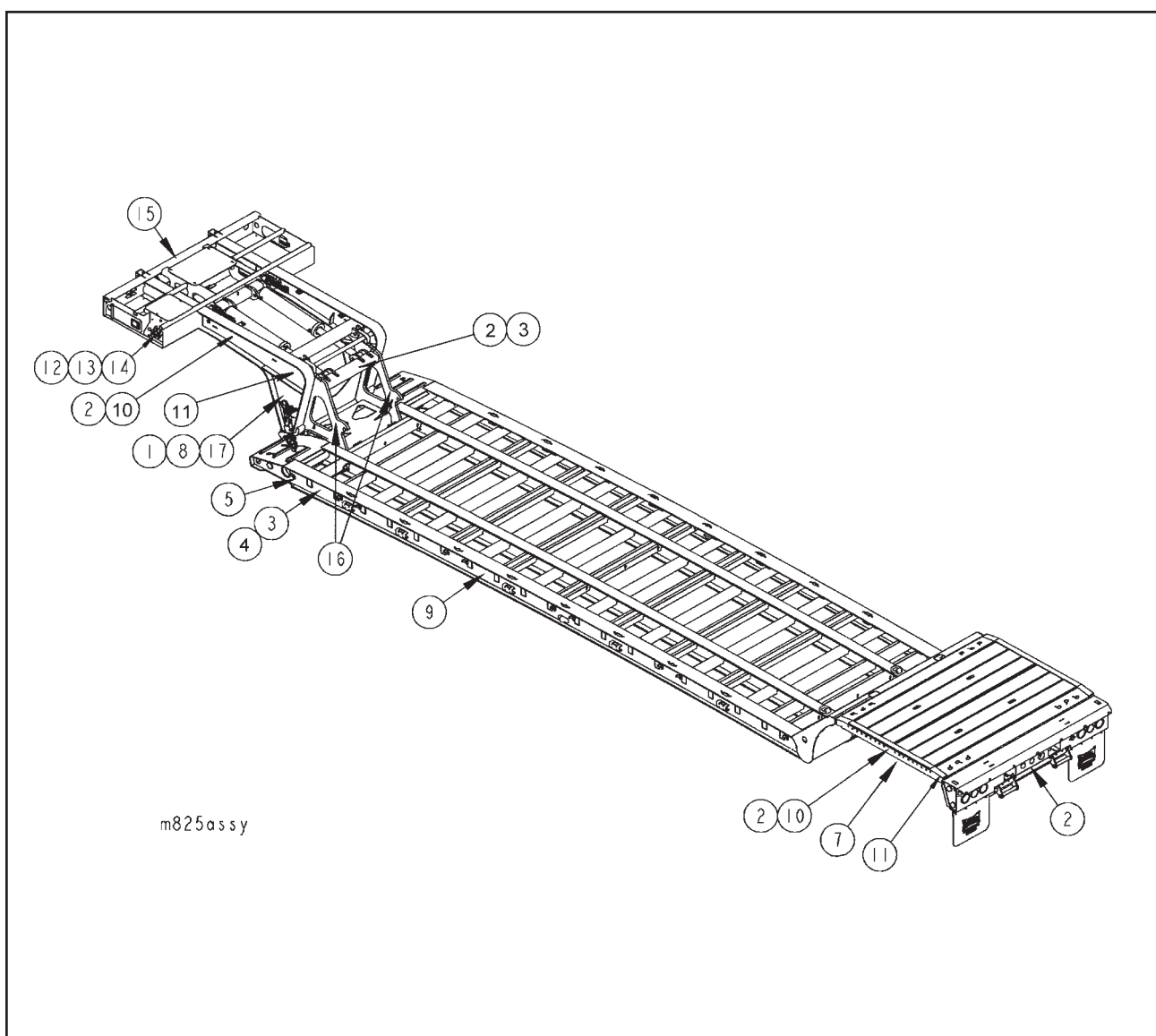
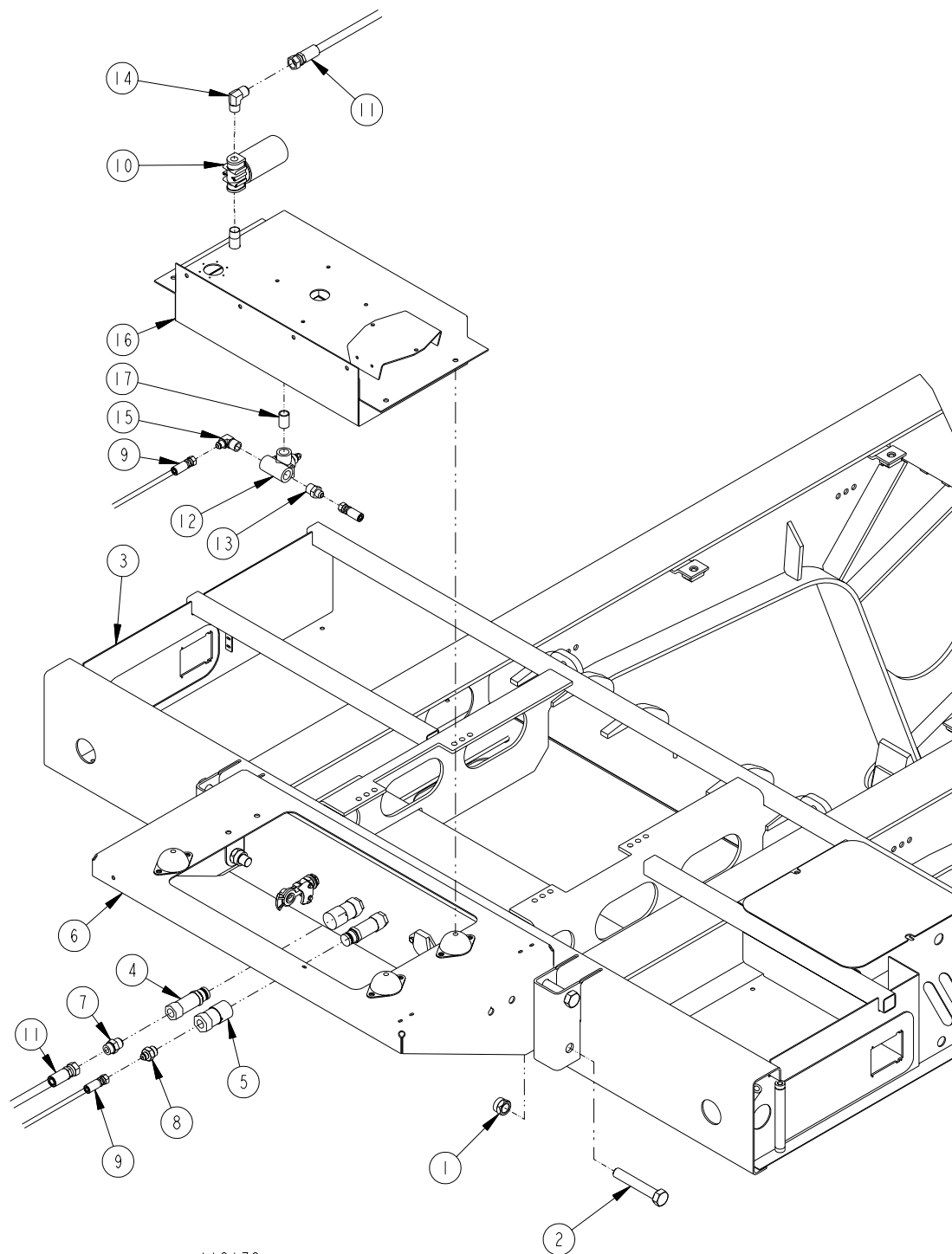


Figure 1-56 Decal Placement

## DECAL PLACEMENT

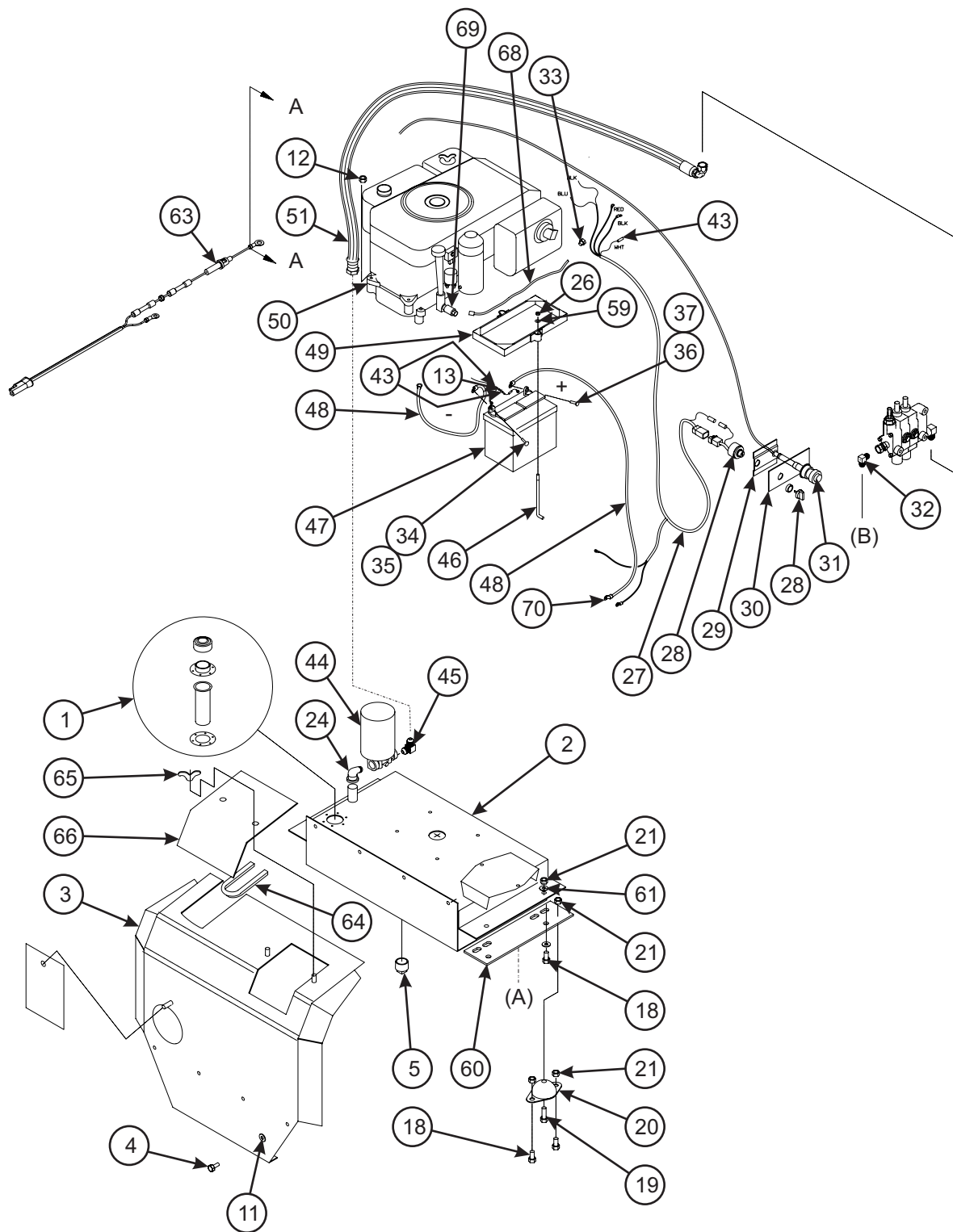
| ITEM | PART NO.        | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
|      | 105290          | DECALS, BLK/LIGHT 825 TRL                        |      |
|      | 105291          | DECALS, WHT/DARK 825 TRL                         |      |
|      | 120681          | DECALS, BLK/LIGHT 835 TRL                        |      |
|      | 120682          | DECALS, WHT/DARK 835 TRL                         |      |
| 1    | 1-573-010476    | DECAL, BOW TIE (BLACK) DC                        |      |
|      | 1-573-010480    | DECAL, BOW TIE (WHITE) DC                        |      |
| 2    | 1-573-010477    | DECAL, LANDOLL (BLACK) DC                        |      |
|      | 1-573-010481    | DECAL, LANDOLL (WHITE) DC                        |      |
| 3    | 105280          | DECAL, 825 (BLACK)                               |      |
|      | 106658          | DECAL, 825 (WHITE)                               |      |
|      | 117835          | DECAL, 835 (BLACK)                               |      |
|      | 120680          | DECAL, 835 (WHITE)                               |      |
| 4    | 114568          | DECAL, "B" 5" (WHITE)                            |      |
|      | 114569          | DECAL, "B" 5" (BLACK)                            |      |
| 5    | 106657          | DECAL, CAUTION 50K/16 FT CONC.                   |      |
|      | 128868          | DECAL, CAUTION 60K/12 FT CONC.                   |      |
|      | 3-573-010191    | DECAL, CAUTION 70K/16 FT CONC.                   |      |
| 7    | 3-573-010210    | DECAL, TORQUE SPEC 8-10 STUD HUB                 |      |
| 8    | 3-573-010298    | DECAL, PATENT                                    |      |
| 9    | 3-573-010377    | DECAL, 2" REFLEXITE TAPE RED/WHITE               |      |
| 10   | 1-573-010478    | DECAL, HAULLOLL (BLACK)                          |      |
|      | 1-573-010482    | DECAL, HAULLOLL (WHITE)                          |      |
| 11   | 106693          | DECAL, 10,000 LB. ALUMINUM BED                   |      |
| 12   | 105282          | DECAL, 825 DETACH PROCEDURE                      |      |
| 13   | 105283          | DECAL, 825 HOOKUP PROCEDURE                      |      |
| 14   | 105281          | DECAL, 825 CONTROLS                              |      |
| 15   | 105822          | DECAL, HYDRAULIC COUPLER                         |      |
| 16   | 2-573-010335    | DECAL, DANGER PINCHING                           |      |
| 17   | 3-573-010338    | DECAL, WARNING AIR LINE                          |      |
| 18   | 3-573-010378012 | DECAL, 2 X 12 REFL. WHITE (BULKHEAD)(NOT SHOWN)  |      |
| 19   | 3-573-010378010 | DECAL, 2 X 10 REFL. WHITE (BULKHEAD)(NOT SHOWN)  |      |
| 20   | 3-573-010496    | DECAL, WARNING TIE DOWN (FLIP WLDMT) (NOT SHOWN) |      |
| 21   | 101855          | WARNING LAMP LABEL, ABS                          |      |
| 22   | 139559          | DECAL, POWDER COATED                             |      |
| 23   | 142553          | DECAL, GREASE TRAILER U/C                        |      |
| 24   | 130116          | DECAL, ON/OFF LIGHT                              |      |
| 25   | 3-573-010299    | DECAL, WARNING WINCH CABLE                       |      |
| 26   | 135184          | DECAL, WINCH FREE SPOOL                          |      |



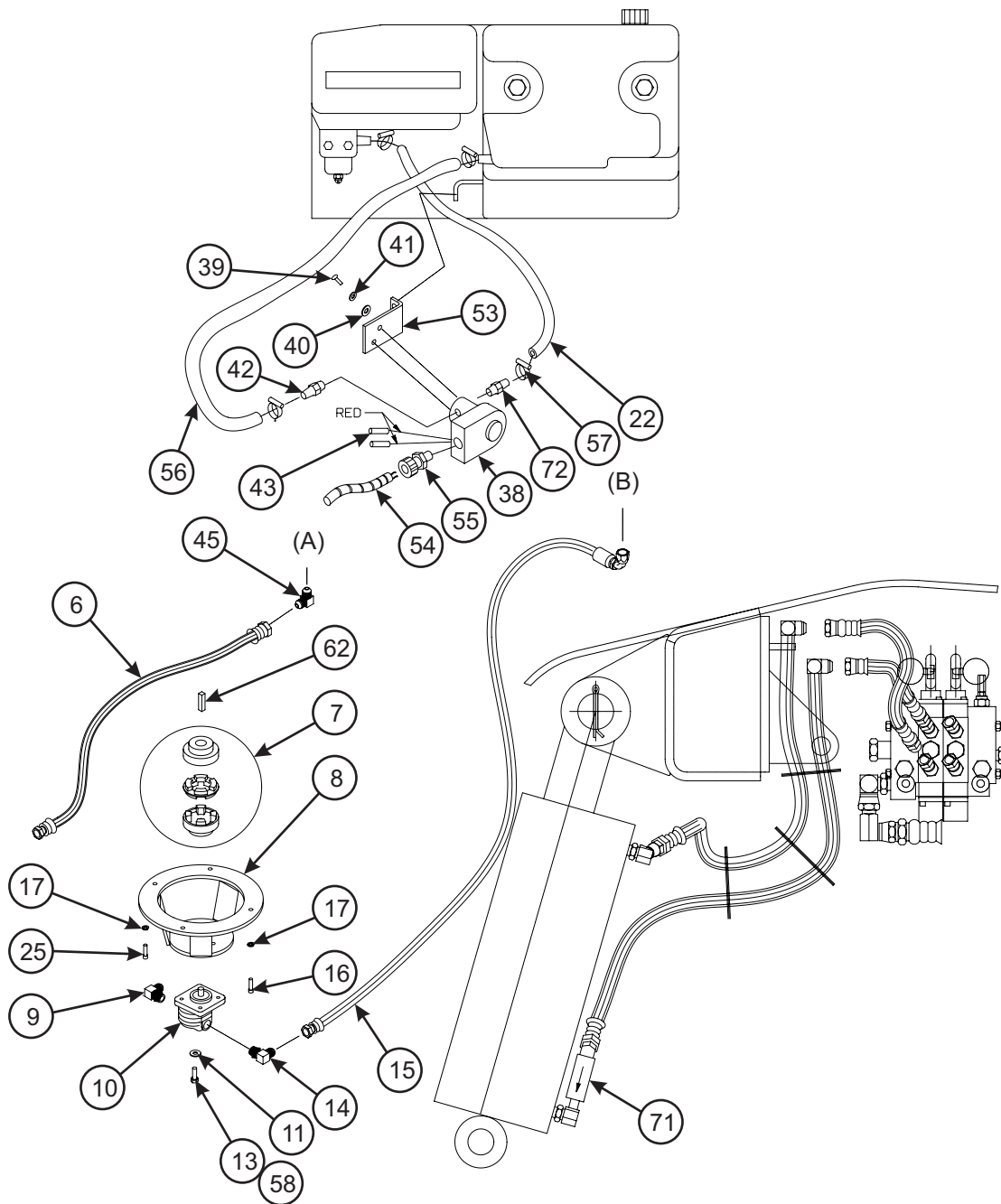
**Figure 1-57 Engine Installation Front Mount (Option)**

## ENGINE INSTALLATION FRONT MOUNT (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 112172          | ENGINE INSTALLATION FRONT MOUNT    |      |
| 1    | 1-512-010005-19 | NUT, HEX LOCK 1-8 GRB              | 4    |
| 2    | 1-654-010065-17 | SCREW, HEX HEAD CAP 1-8 X 6 GR5    | 4    |
| 3    | 105294          | GOOSENECK ASSEMBLY                 | REF  |
| 4    | 105479          | COUPLER FLAT FACE MALE NOSE        | 1    |
| 5    | 105480          | COUPLER FLAT FACE FEMALE BODY      | 1    |
| 6    | 112184          | MOUNT WELDMENT 11 HP FRONT ENGINE  | 1    |
| 7    | 202702-12-12S   | ADAPTER                            | 1    |
| 8    | 202702-12-8S    | ADAPTER                            | 1    |
| 9    | 1-397-010301024 | HOSE ASSEMBLY 24"                  | 2    |
| 10   | 1-295-010001    | RETURN LINE FILTER                 | REF  |
| 11   | 1-397-010304048 | HOSE ASSEMBLY 48"                  | 1    |
| 12   | 125130          | VALVE, HYDR PRESSURE RELIEF LW     | 1    |
| 13   | 2021-12-8S      | ADAPTER STRAIGHT                   | 1    |
| 14   | 2024-12-12S     | ELBOW 90                           | REF  |
| 15   | 2024-12-8S      | ELBOW 90                           | 1    |
| 16   | 3-786-010033    | TANK WELDMENT 5.5 GAL W/ ENG MOUNT | REF  |
| 17   | 3/4NIPPLE       | NIPPLE, ALL THREAD 3/4             | 1    |
| 18   | 3-846-010156    | VALVE, RESTRICTOR (NOT SHOWN)      | 2    |



**Figure 1-58 42-11 HP Honda Engine Drive Installation (Option)**  
(1 of 2)



m3-410-010912 p2

**Figure 1-59 42-11 HP Honda Engine Drive Installation (Option)**  
(2 of 2)

## 42-11 HP HONDA ENGINE DRIVE INSTALLATION (OPTION)

| ITEM | PART NO.          | DESCRIPTION                                | QTY. |
|------|-------------------|--------------------------------------------|------|
|      | 3-410-010912      | 42-11 HP HONDA ENGINE DRIVE INSTALLATION   |      |
| 1    | 3-162-010001      | FILLER BREATHER STRAINER ASSEMBLY          | 1    |
| 2    | 3-786-010037      | TANK WELDMENT                              | 1    |
| 3    | 3-681-010069      | SHIELD WELDMENT                            | 1    |
| 4    | 1-654-010051-05   | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5         | 4    |
| 5    | 1-560-010002-05   | PLUG, PIPE 3/4-14                          | 1    |
| 6    | 1-397-010304016   | HOSE ASSEMBLY 16"                          | 1    |
| 7    | 3-220-010010      | COUPLING ASSEMBLY                          | 1    |
| 8    | 3-482-010051      | PUMP MOUNT WELDMENT                        | 1    |
| 9    | 2062-10-12S       | ADAPTER 90                                 | 1    |
| 10   | 3-591-010010      | PUMP, HYDRAULIC                            | 1    |
| 11   | 1-861-010032-11   | WASHER, FLAT 3/8W                          | 8    |
| 12   | 1-512-010005-03   | NUT, HEX LOCK 5/16-18                      | 2    |
| 13   | 1-654-010051-06   | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5     | 4    |
| 14   | 2062-10-8S        | ADAPTER 90                                 | 1    |
| 15   | 1-397-010302060   | HOSE ASSEMBLY 60"                          | 1    |
| 16   | 1-654-010050-07   | SCREW, HEX HEAD CAP 5/16 -24 X 1-1/2 GR5   | 2    |
| 17   | 1-861-010032-09   | WASHER, FLAT 5/16                          | 4    |
| 18   | 1-654-010055-01   | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5         | 12   |
| 19   | 1-654-010055-03   | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5     | 4    |
| 20   | CA-1595           | MACHINE MOUNT 40 DUROMETER                 | 4    |
| 21   | 1-512-010005-09   | NUT, HEX LOCK 1/2-13 GRB                   | 16   |
| 22   | 3-316-010008      | FUEL HOSE 3/16                             | 1    |
| 23   | 1-512-010005-05   | NUT, HEX LOCK 3/8-16 GRB                   | 8    |
| 24   | 1-271-010005-05   | ELBOW, STR 3/4                             | 1    |
| 25   | 5/16-18 X 2 HHCS  | SCREW, HEX HEAD CAP 5/16-18 X 2 GR5        | 2    |
| 26   | 1-512-010005-01   | NUT, HEX LOCK 1/4-20 GRB                   | 2    |
| 27   | 3-368-010068      | HARNESS, WIRING                            | 1    |
| 28   | 3-765-010015      | SWITCH ASSEMBLY, STARTER                   | 1    |
| 29   | 3-565-010173      | PLATE, CLAMP                               | 1    |
| 30   | 3-565-010172      | PLATE MOUNTING ENGINE CONTROLS             | 1    |
| 31   | 139140            | THROTTLE CABLE                             | 1    |
| 32   | 2071-8-8S         | ADAPTER 90                                 | 1    |
| 33   | 102-0323          | CAP NUT                                    | 1    |
| 34   | 1/4-20 X 1-1/4 CB | SCREW, RD HEAD SQ NECK 1/4-20 X 1-1/4      | 1    |
| 35   | 1-512-010007-05   | NUT, HEX 1/4-20                            | 1    |
| 36   | 111-1267          | SCREW, RD HEAD SQ NECK 5/16-18 X 1-1/4 GR5 | 1    |
| 37   | 1-512-010007-06   | NUT, HEX 5/16-18                           | 1    |
| 38   | 3-850-010002      | FUEL SOLENOID 12V DC                       | 1    |
| 39   | 1-654-010100015   | SCREW, MACH SLOT TRUSS HEAD #8-32 X 5/8    | 2    |
| 40   | 1-861-010032-03   | WASHER, FLAT #10                           | 2    |
| 41   | 1-861-010034-07   | WASHER SPLIT LOCK #10                      | 2    |
| 42   | 102-0511          | HOSE BARB                                  | 2    |
| 43   | 3-272-010021      | ELECT. BUTT SPLICE                         | 2    |
| 44   | 1-295-010001      | RETURN LINE FILTER                         | 1    |
| 45   | 2024-12-12S       | ADAPTER, 90                                | 2    |
| 46   | 3-014-010023      | ANCHOR BOLT BATTERY                        | 2    |
| 47   | 1-060-010004      | BATTERY                                    | 1    |

## 42-11 HP HONDA ENGINE DRIVE INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                           | QTY. |
|------|-----------------|---------------------------------------|------|
| 48   | 3-156-010042    | CABLE ASSEMBLY                        | 2    |
| 49   | 3-380-010006    | HOLD DOWN BATTERY                     | 1    |
| 50   | 3-273-010014    | ENGINE, 11HP HONDA                    | 1    |
| 51   | 1-397-010305060 | HOSE ASSEMBLY 60"                     | 1    |
| 52   | 237-2308-004    | GROMMET 1" (NOT SHOWN)                | 1    |
| 53   | 3-482-010137    | MOUNT FUEL SOLENOID                   | 1    |
| 54   | 3-201-010002    | CONDUIT, FLEX PLASTIC 3/8             | 1    |
| 55   | 106-0078        | STRAIN RELIEF CONN 1/2                | 1    |
| 56   | 104-0505        | HOSE FUEL LINE                        | 2    |
| 57   | 105-0105        | CLAMP, HOSE                           | 4    |
| 58   | #242 LOCKTITE   | LOCKTITE 242                          | AR   |
| 59   | 1-861-010032-07 | WASHER, FLAT 1/4                      | 2    |
| 60   | 3-054-010066    | BAR, 4 HOLE MOUNT                     | 2    |
| 61   | 1-861-010032-15 | WASHER, FLAT 1/2W                     | 8    |
| 62   | 110-4337        | KEY, STEEL                            | 1    |
| 63   | 153032          | HARNESS, TRICKLE CHARGE BATTERY       | 1    |
| 64   | 1-822-010002-5  | TRIM-LOK 3/16 X 23                    | 1    |
| 65   | 1/4-20WN        | WING NUT, 1/4-20                      | 3    |
| 66   | 3-681-010056    | COVER, ENG ACCESS                     | 1    |
| 67   | 3-681-010057    | COVER, HYD ACCESS                     | 1    |
| 68   | 1-397-010318018 | HOSE ASSEMBLY 1/2                     | 1    |
| 69   | 3-007-010042    | ADAPTER                               | 1    |
| 70   | STP-146         | CONNECTOR, FEMALE 1/4 SPADE INSULATED | 1    |
| 71   | 3-846-010156    | VALVE, RESTRICTOR ONE WAY             | 2    |
| 72   | 144736          | HOSE BARB                             | 1    |



## FRONT MOUNT ENGINE COVER INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                          | QTY. |
|------|-----------------|----------------------------------------------------------------------|------|
|      | 112174          | COVER, INSTALLATION 11 HP FRONT MOUNT                                |      |
| 1    | 1-512-010004-03 | NUT, HEX LOCK 10-24 GRA                                              | 10   |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                             | 2    |
| 3    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5                                   | 2    |
| 4    | 1-656-010003051 | SCREW, RD HEAD MACH #10-24 X 3/4                                     | 10   |
| 5    | 1-861-010032-03 | WASHER, FLAT #10                                                     | 10   |
| 6    | 1-861-010032-10 | WASHER, FLAT 3/8N                                                    | 2    |
| 7    | 112172          | ENGINE INSTALLATION FRONT MOUNT (SEE PAGE 1-99)                      | REF  |
| 8    | 112175          | COVER WELDMENT 11HP                                                  | 1    |
| 9    | 112248          | NYLON SHOULDER WASHER                                                | 4    |
| 10   | 231-4310        | BRACKET, LATCHING                                                    | 2    |
| 11   | 239-4899        | LATCH, BATTERY COVER                                                 | 2    |
| 12   | 1-343-010001    | RUBBER GROMMET                                                       | 1    |
| 13   | 10030           | SEAL, BAR STOCK NEOPRENE SPNG                                        | 1    |
| 14   | 3-120-010463    | BRACKET, HOOD STRAP                                                  | 1    |
| 15   | 3-153-010024040 | CABLE, VINYL COATED 1/8 X 40                                         | 1    |
| 16   | 3-182-010034    | CLAMP, 1/8 WIRE ROPE                                                 | 4    |
|      | 118005          | MOUNT KIT, ENG PKG 825 DECK                                          | 1    |
| 17   | 1-397-010302042 | HOSE ASSEMBLY, 1/2 X 42 (NOT SHOWN)<br>(REPLACES ITEM 68 PAGE 1-103) | 1    |
| 18   | 1-512-010005-19 | NUT, HEX LOCK 1-8 GRB                                                | 2    |
| 19   | 1-654-010065-17 | SCREW, HEX HEAD CAP 1-8 X 6 GR5                                      | 2    |
| 20   | 105276          | HOSE ASSEMBLY, 3/4 X 52 (NOT SHOWN)<br>(REPLACES ITEM 6 PAGE 1-102)  | 1    |
| 21   | 118006          | MOUNT WELDMENT ENG PKG 825 DECK                                      | 2    |

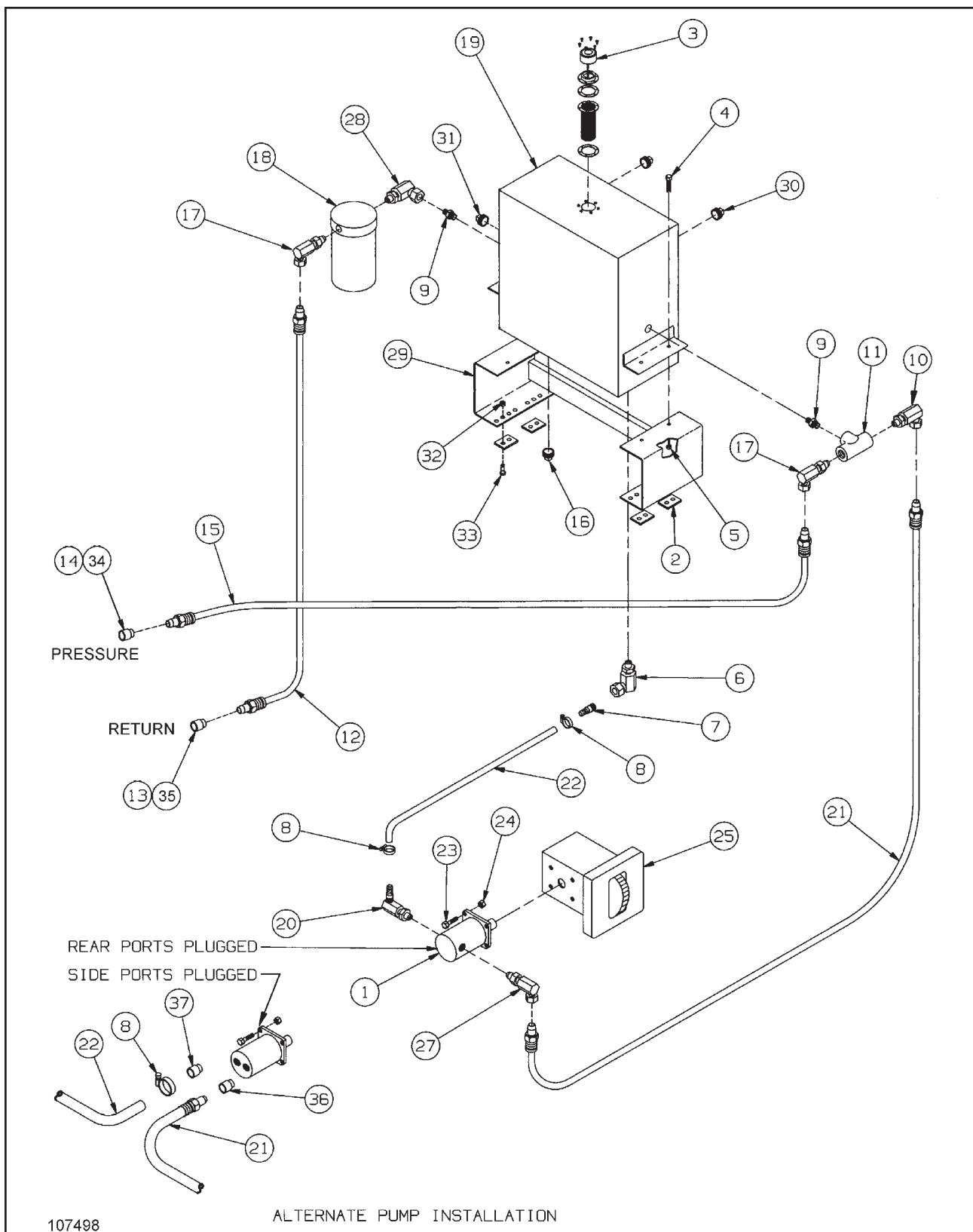


Figure 1-61 Hydraulic Wet Kit Assembly (Option)

## HYDRAULIC WET KIT (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 107498          | HYDRAULIC WET KIT W/ PTO INSTALLED     |      |
|      | 107499          | HYDRAULIC WET KIT W/ PTO NOT INSTALLED |      |
| 1    | 3-591-010001    | HYDRAULIC GEAR PUMP (SEE PAGE 1-109)   | 1    |
| 2    | 3-120-010461    | BRACKET, HYDRAULIC TANK MOUNT SUPPORT  | 4    |
| 3    | 3-162-010001    | FILLER, BREATHER STRAINER              | 1    |
| 4    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 | 4    |
| 5    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB               | 4    |
| 6    | 1-1/4ST ELL     | PIPE ELBOW 90                          | 1    |
| 7    | 3-561-010001    | HOSE, BARB                             | 1    |
| 8    | 6828            | CLAMP, HOSE                            | 2    |
| 9    | C3069X12        | NIPPLE, HEX                            | 2    |
| 10   | 2024-12-8S      | ADAPTER, 90                            | 1    |
| 11   | 125130          | RD12D HYDRAULIC BY-PASS SRDD           | 1    |
| 12   | 106760          | HOSE 3/4 X 164                         | 1    |
| 13   | 105479          | COUPLER, FLAT FACE MALE NOSE           | 1    |
| 14   | 105480          | COUPLER, FLAT FACE FEMALE BODY         | 1    |
| 15   | 106759          | HOSE 1/2 X 164                         | 1    |
| 16   | 1-560-010002-07 | PLUG, BLACK PIPE                       | 1    |
| 17   | 2024-12-12S     | ADAPTER 90                             | 2    |
| 18   | 1-295-010001    | FILTER, RETURN                         | 1    |
| 19   | 3-786-010043    | TANK, HYDRAULIC                        | 1    |
| 20   | 1-007-010006    | ELBOW 90                               | 1    |
| 21   | 1-397-010301100 | HOSE ASSEMBLY 1/2 X 100                | 1    |
| 22   | 3-399-010001    | HOSE 1-1/4 X 4 SUCTION                 | 8'   |
| 23   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 4    |
| 24   | 1-861-010034-13 | WASHER SPLIT LOCK 1/2                  | 4    |
| 25   | PTO             | POWER TAKEOFF                          | 1    |
| 27   | 2062-16-8S      | ADAPTER 90                             | 1    |
| 28   | 2047-12-12S     | ELBOW, 90 SWIVEL                       | 1    |
| 29   | 3-482-010503    | TANK MOUNT                             | 1    |
| 30   | 1-560-010002-05 | PIPE PLUG 3/4                          | 2    |
| 31   | 1-560-010002-04 | PIPE PLUG 1/2                          | 1    |
| 32   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 4    |
| 33   | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 4    |
| 34   | 105482          | COUPLER, DUST CAP FEMALE               | 1    |
| 35   | 105481          | COUPLER, DUST CAP MALE                 | 1    |
| 36   | 12-16 070120    | ADAPTER #12 TUBE/ #16 O-RING           | 1    |
| 37   | 107513          | ADAPTER                                | 1    |

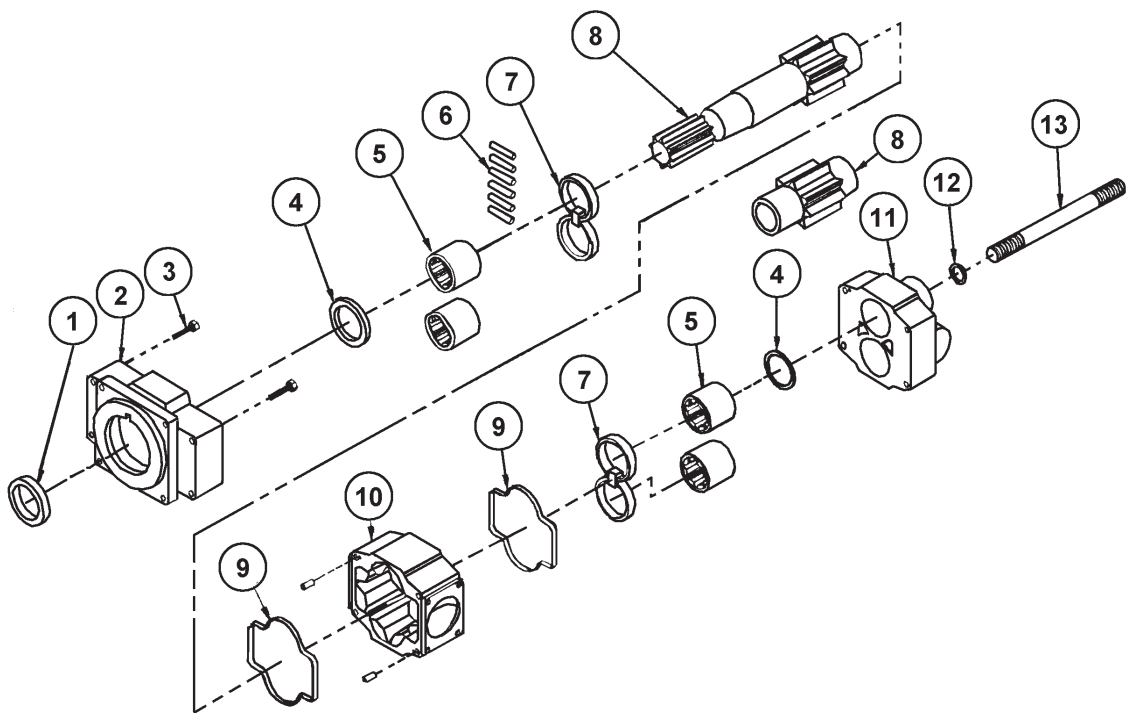
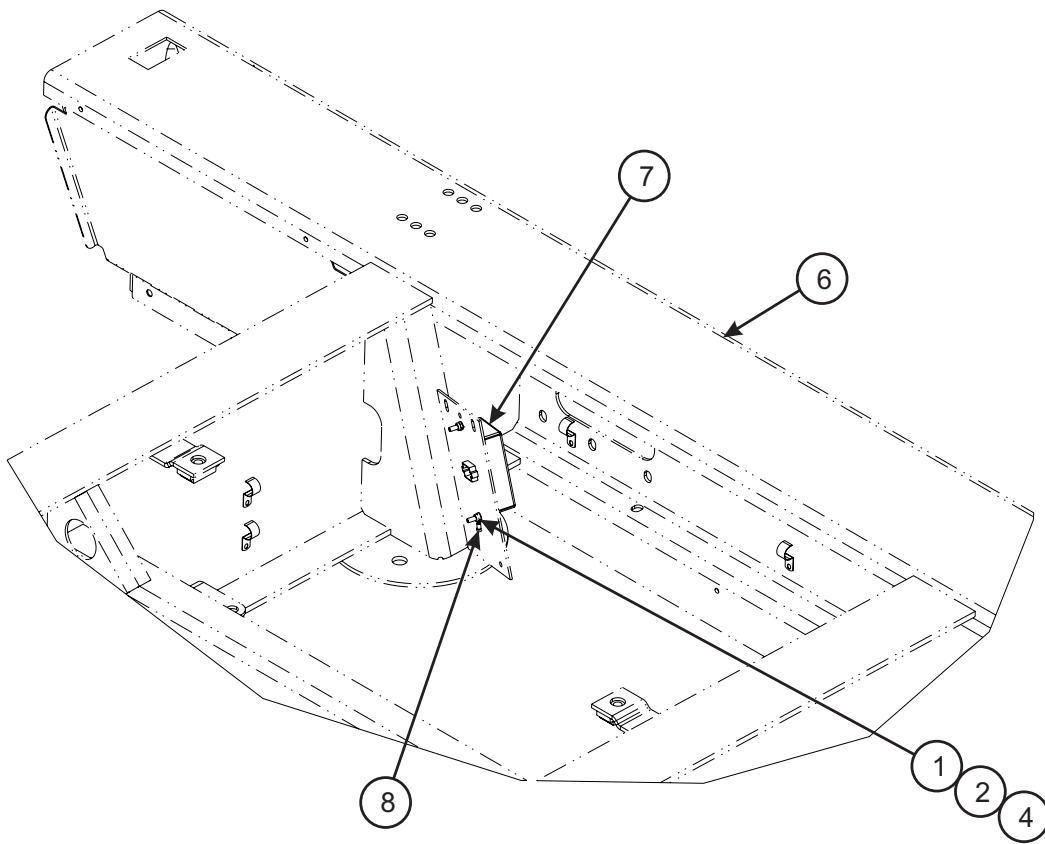


Figure 1-62 Hydraulic Pump, Wet Kit (Option)

## HYDRAULIC PUMP, WET KIT (OPTION)

| ITEM | PART NO.      | DESCRIPTION             | QTY. |
|------|---------------|-------------------------|------|
|      | 3-591-010001  | HYDRAULIC PUMP ASSEMBLY | 1    |
| 1    | X73-37-16     | SEAL SHAFT              | 1    |
| 2    | EB 1685-3     | COVER SHAFT END         | 1    |
| 3    | M 1391-K      | CHECK                   | 2    |
| 4    | LB 1669-1     | SEAL RING               | 2    |
| 5    | Y 1032        | BEARING ROLLER          | 4    |
| 6    | BA 3026-2     | STRIP POCKET SEAL       | 1    |
| 7    | AA 1058       | PLATE THRUST            | 2    |
| 8    | BD 1135M-3-17 | GEAR SET SHAFT          | 1    |
| 9    | UB 3006-242   | GASKET HOUSING          | 2    |
| 10   | RA 1688-17-64 | HOUSING                 | 1    |
| 11   | XA 1603       | PORT END                | 1    |
| 12   | X 144-3       | WASHER                  | 1    |
| 13   | X2-25         | STUD                    | 1    |
|      | 391-1802-119  | SEAL KIT                |      |



m126359

**Figure 1-63 Air Weigh Scale Installation (Option)**

## AIR WEIGH SCALE INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 126359          | SCALE INSTALLATION, AIR WEIGH          |      |
| 1    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20                   | 2    |
| 2    | 1-654-010047-07 | SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5 | 2    |
| 3    | 1-796-010003-01 | TIE STRAP, PLASTIC (NOT SHOWN)         | 2    |
| 4    | 1-861-010032-07 | WASHER, FLAT 1/4W                      | 2    |
| 5    | 104043          | CONNECTOR (NOT SHOWN)                  | 1    |
| 6    | -----           | FRAME WELDMENT                         | REF  |
| 7    | 128436          | SCALE, AIR DIGITAL                     | 1    |
| 8    | 239-3646-5      | TERMINAL RING (NOT SHOWN)              | 1    |
| 9    | 3-395-010001    | HOSE, CF FIRE (NOT SHOWN)              | AR   |

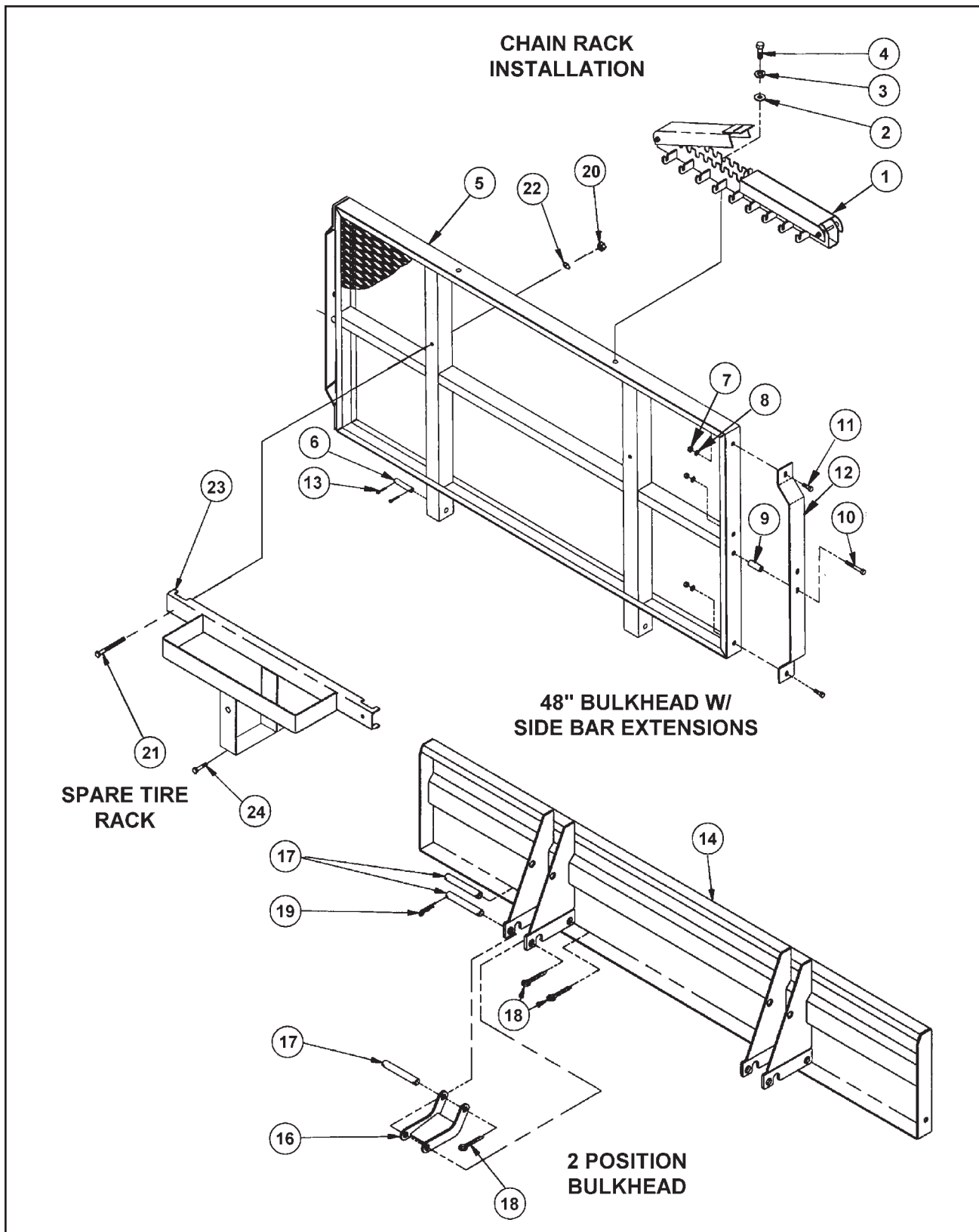


Figure 1-64 Bulkhead and Chain Rack Installation (Option)

## BULKHEAD AND CHAIN RACK INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                    | QTY. |
|------|-----------------|------------------------------------------------|------|
|      | B7-141-003      | BULKHEAD CHAIN RACK INSTALLATION (ITEMS 1-4)   |      |
|      | 3-141-010121    | BULKHEAD INSTALLATION (ITEMS 5-13)             |      |
|      | 3-141-010123    | BULKHEAD INSTALLATION 2 POSITION (ITEMS 14-19) |      |
|      | 112986          | RACK INSTALLATION BHD FRT MOUNT (ITEMS 20-24)  |      |
| 1    | 3-141-010008    | CHAIN HANGER LOCKING CHANNEL WLDMT             | 1    |
| 2    | 1-861-010032-11 | WASHER, FLAT 3/8                               | 1    |
| 3    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                         | 1    |
| 4    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5         | 2    |
| 5    | 3-141-010155    | BULKHEAD WELDMENT 48 X 96                      | 1    |
|      | 3-141-010152    | BULKHEAD WELDMENT 16 X 102                     | 1    |
| 6    | 6-557-010163    | PIN, HITCH LEVEL LINK                          | 2    |
| 7    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                       | 6    |
| 8    | 1-861-010032-15 | WASHER, FLAT 1/2W                              | 6    |
| 9    | 3-711-010025    | SPACER, BULKHEAD 48"                           | 2    |
| 10   | 1-654-010055-13 | SCREW, HEX HEAD CAP 1/2-13 X 4 GR5             | 2    |
| 11   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5         | 4    |
| 12   | 3-054-010101    | BAR SIDE, BULKHEAD 48"                         | 2    |
| 13   | 1-557-010362-63 | COTTER PIN 1/4 X 2                             | 4    |
| 14   | 3-141-010147    | BULKHEAD WELDMENT 16/24 X 102 2 POS            | 1    |
| 16   | 3-755-010080    | SUPPORT WELDMENT, BULKHEAD                     | 2    |
| 17   | 3-557-010380    | PIN SUPPORT, BULKHEAD                          | 6    |
| 18   | 1-557-010362-63 | COTTER PIN 1/2 X 2                             | 10   |
| 19   | 1-557-010014    | HAIRPIN 1/4                                    | 2    |
| 20   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                       | 3    |
| 21   | 1-654-010055-15 | SCREW, HEX HEAD CAP 1/2-13 X 5 GR5             | 2    |
| 22   | 1-861-010032-15 | WASHER, FLAT 1/2W                              | 2    |
| 23   | 112987          | RACK WELDMENT, BULKHEAD MOUNT                  | 1    |
| 24   | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5             | 1    |

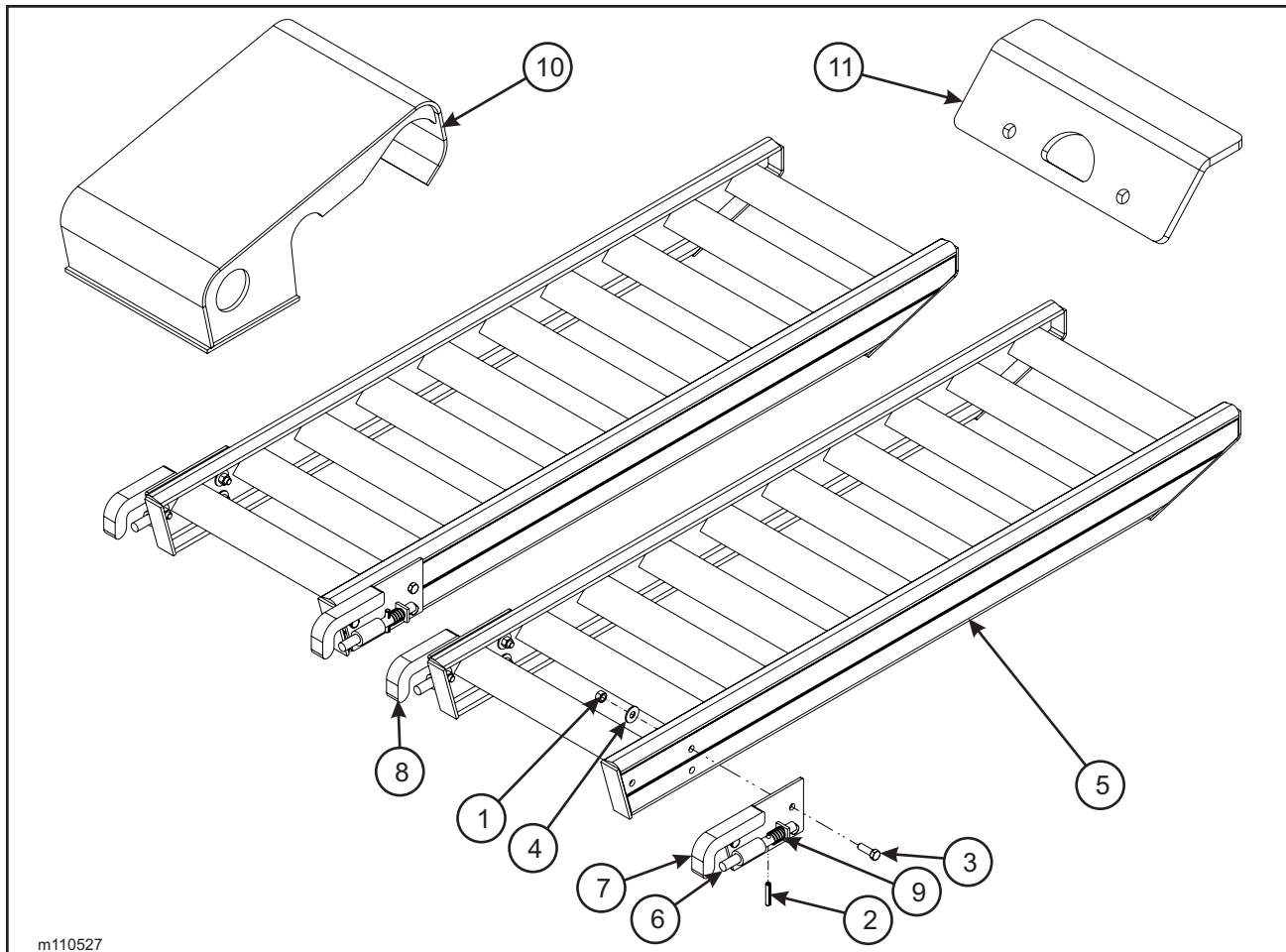


Figure 1-65 Aluminum Beavertail Ramp Assembly (Option)

## ALUMINUM BEAVERTAIL RAMP ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                               | QTY. |
|------|-----------------|-------------------------------------------|------|
|      | 110527          | RAMP ASSEMBLY 5.5 FT ALUM                 |      |
| 1    | 1-512-010007-09 | NUT, HEX 1/2-13                           | 12   |
| 2    | 1-647-010004255 | PIN, SPRING, SLOTTED 2 X 3/8              | 4    |
| 3    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5    | 12   |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                         | 12   |
| 5    | 110526          | RAMP WELDMENT, 5.5 ALUM                   | 2    |
| 6    | 3-557-010116    | LOCK PIN RAMPS                            | 4    |
| 7    | 3-619-010065    | LT HOOK WELDMENT                          | 2    |
| 8    | 3-619-010066    | RT HOOK WELDMENT                          | 2    |
| 9    | CO-975-74-2000  | SPRING COMPRESSION                        | 4    |
| 10   | 105300          | RAMP WELDMENT, FRONT FULLOUT FILLER (825) | 2    |
|      | 129879          | RAMP WELDMENT, TRACK ASSIST (835)         | 2    |
| 11   | 135777          | RAMP MOUNT, ADAPTER WELDMENT              | 2    |

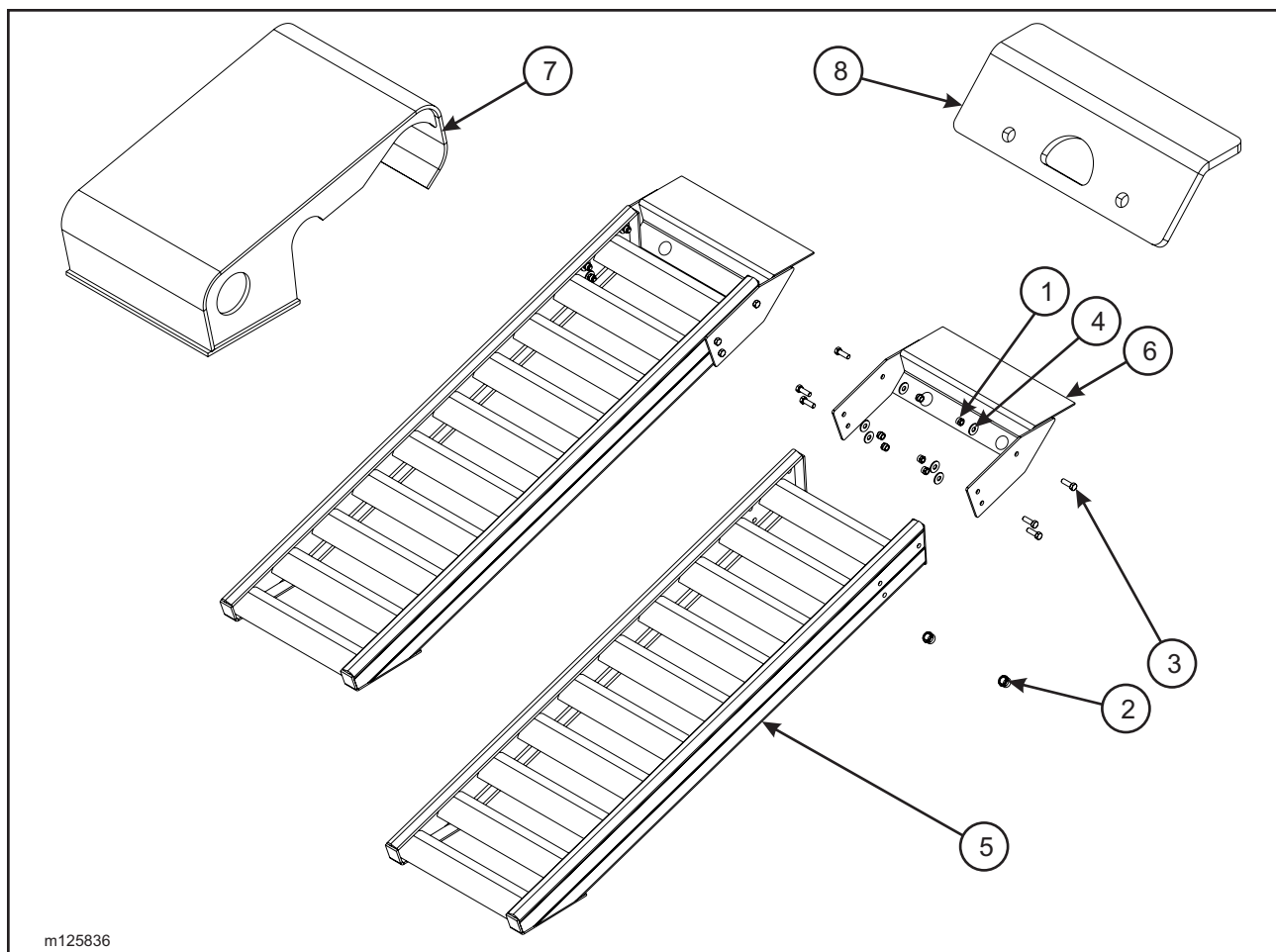


Figure 1-66 Aluminum Trunnion Ramp Assembly (Option)

## ALUMINUM TRUNNION RAMP ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                               | QTY. |
|------|-----------------|-------------------------------------------|------|
|      | 125836          | RAMP ASSEMBLY 70", TRUNNION               |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 X GRB                | 12   |
| 2    | 1-512-010005-15 | NUT, HEX LOCK 3/4 - 10 GRB                | 4    |
| 3    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5    | 12   |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                         | 12   |
| 5    | 110526          | RAMP WELDMENT, 5.5 ALUM                   | 2    |
| 6    | 125833          | ANCHOR WELDMENT, RAMP SLOPE (110749)      | 2    |
| 7    | 105300          | RAMP WELDMENT, FRONT FULLOUT FILLER (825) | 2    |
|      | 129879          | RAMP WELDMENT, TRACK ASSIST (835)         | 2    |
| 8    | 135777          | RAMP MOUNT, ADAPTER WELDMENT              | 2    |

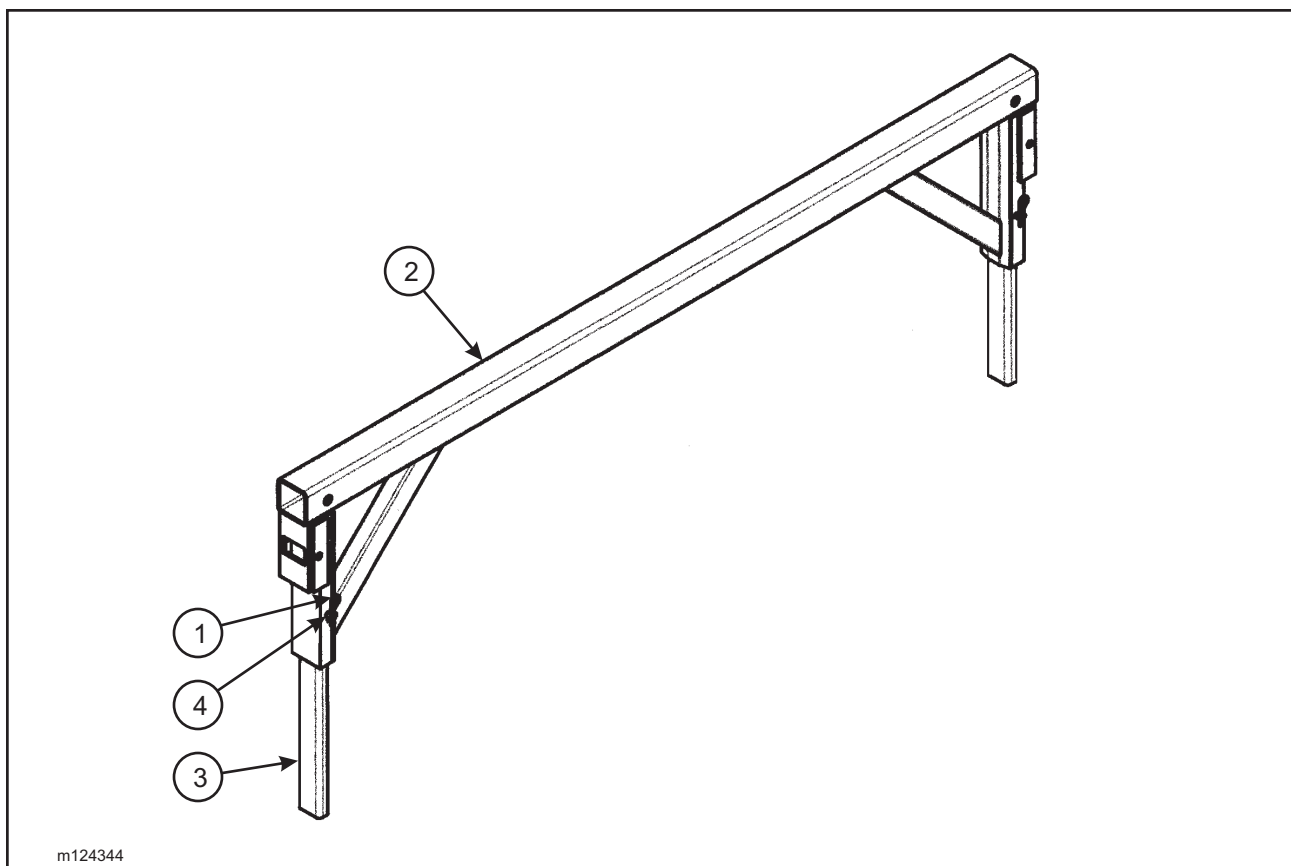


Figure 1-67 Header Rack Assembly, Adjustable Legs (Option)

## HEADER RACK ASSEMBLY, ADJUSTABLE LEGS (OPTION)

| ITEM | PART NO.     | DESCRIPTION                           | QTY. |
|------|--------------|---------------------------------------|------|
|      | 124344       | HEADER RACK ASSEMBLY, ADJUSTABLE LEGS |      |
| 1    | 1-557-010013 | PIN, HAIR 3/16                        | 2    |
| 2    | 124345       | HEADER RACK WELDMENT, ADJ LEG         | 1    |
| 3    | 124348       | LEG, ADJUSTABLE HEADER RACK           | 2    |
| 4    | 2-557-010053 | PIN, LOCK OUT                         | 2    |

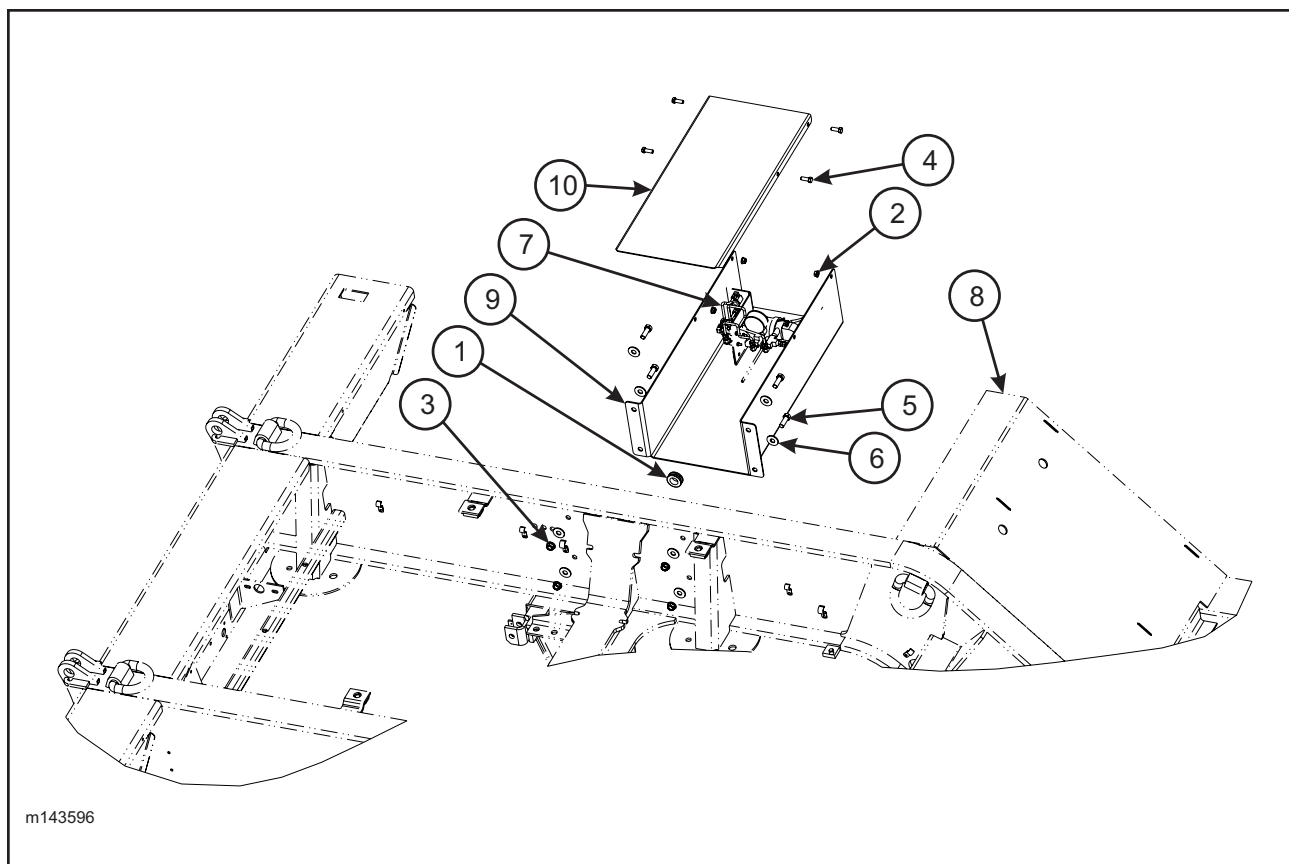


Figure 1-68 Air R/L Mount Kit (Option)

### AIR R/L MOUNT KIT (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 143596          | AIR R/L MOUNT KIT (OPTION)             |      |
| 1    | 1-343-010007    | GROMMET                                | 1    |
| 2    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                | 4    |
| 3    | 1-510-010003-09 | NUT, FLANGE HEAD SERRATED 1/2-13       | 4    |
| 4    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5     | 4    |
| 5    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 4    |
| 6    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 8    |
| 7    | 112326          | AIR R/L CONTROL ASSEMBLY               | REF  |
| 8    | -----           | FRAME WELDMENT                         | REF  |
| 9    | 143594          | SHIELD WELDMENT, AIR R/L MOUNTING      | 1    |
| 10   | 143595          | COVER, AIR R/L                         | 1    |

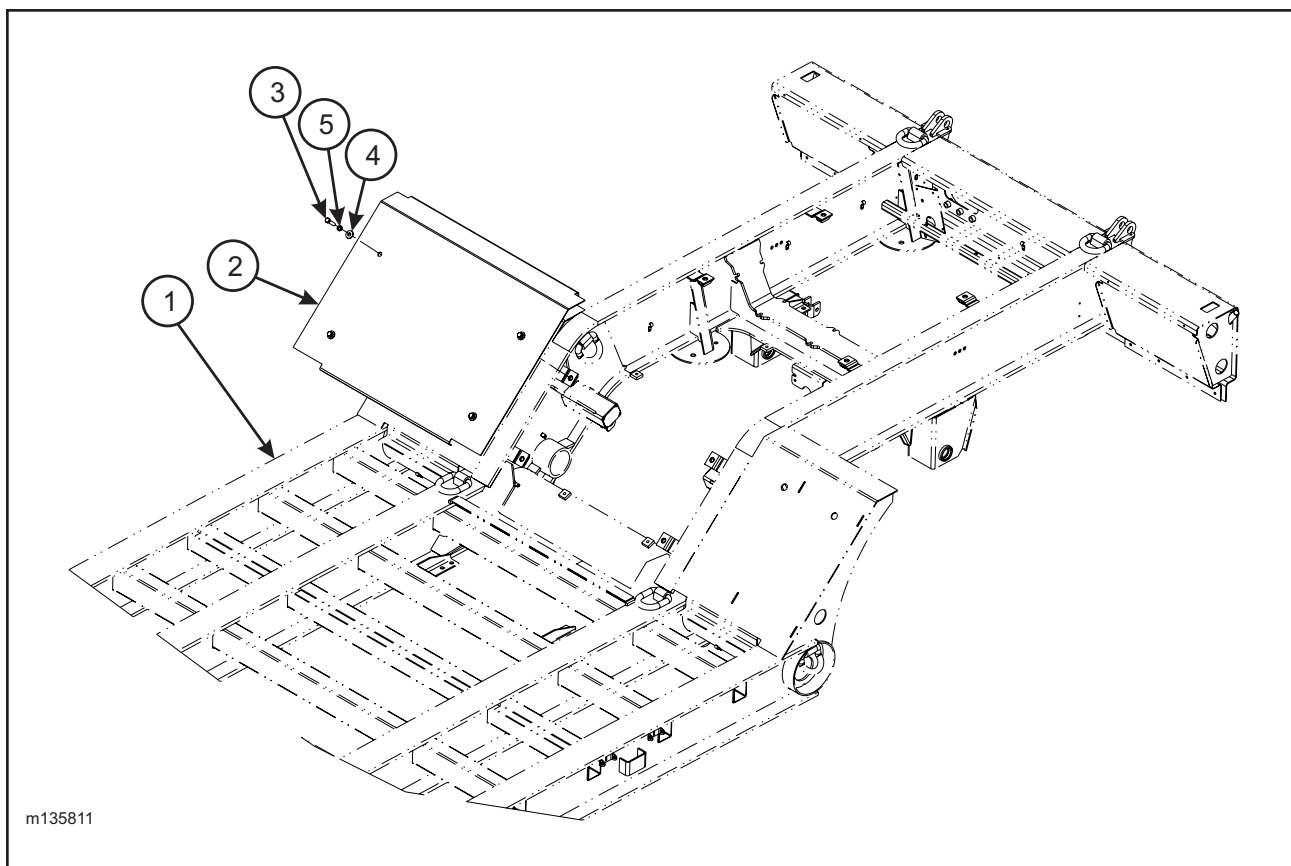


Figure 1-69 Slope Cover Assembly (Option)

## SLOPE COVER ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 135811          | SLOPE COVER ASSEMBLY               |      |
| 1    | ----            | FRAME WELDMENT                     | 1    |
| 2    | 135812          | PLATE, SLOPE COVER                 | 1    |
| 3    | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 | 4    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                  | 4    |
| 5    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2             | 4    |

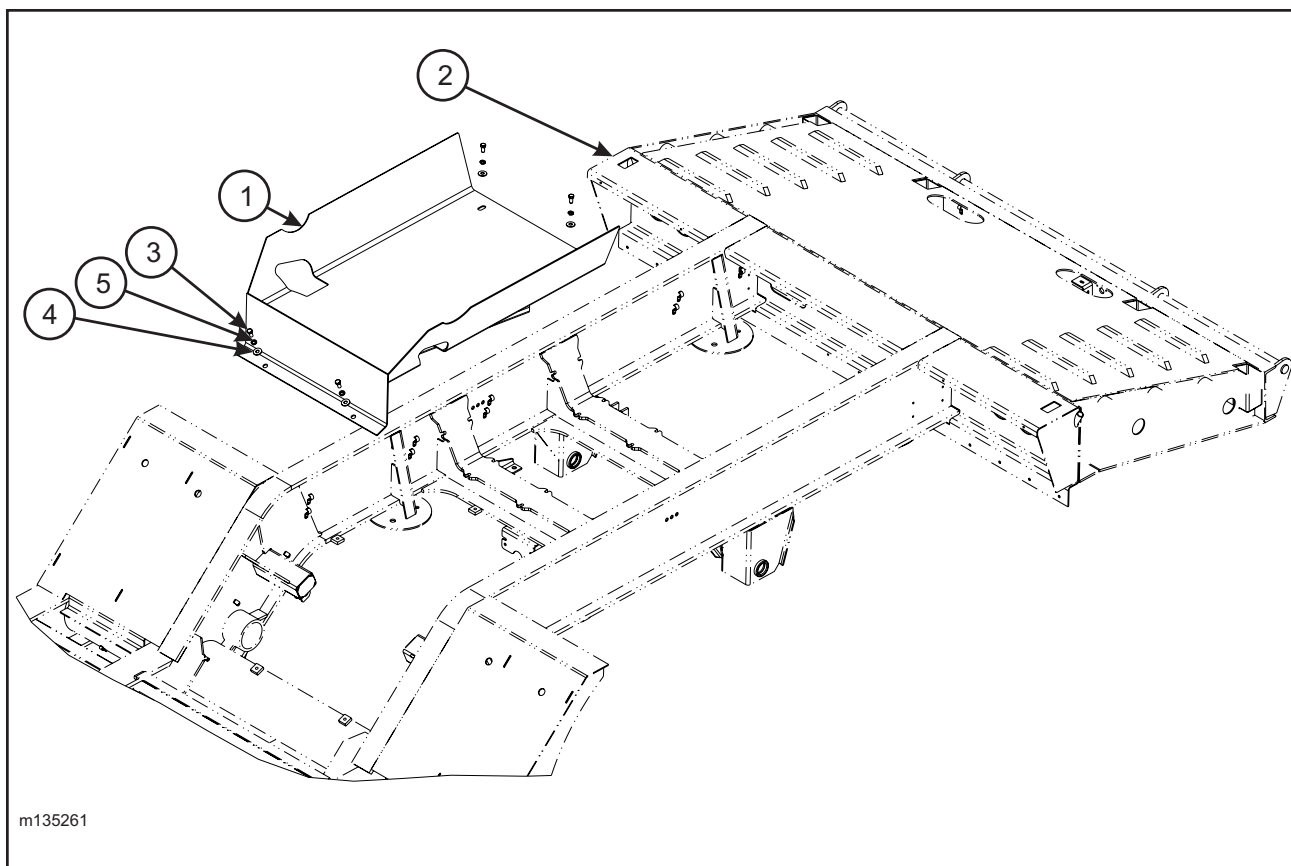


Figure 1-70 Tray Assembly (Option)

## TRAY ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 135261          | TRAY ASSEMBLY (835AG)              |      |
| 1    | 135260          | TRAY WELDMENT, BOOM TROUGH         | 1    |
| 2    | -----           | FRAME WELDMENT                     | 1    |
| 3    | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 | 4    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                  | 4    |
| 5    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2             | 4    |

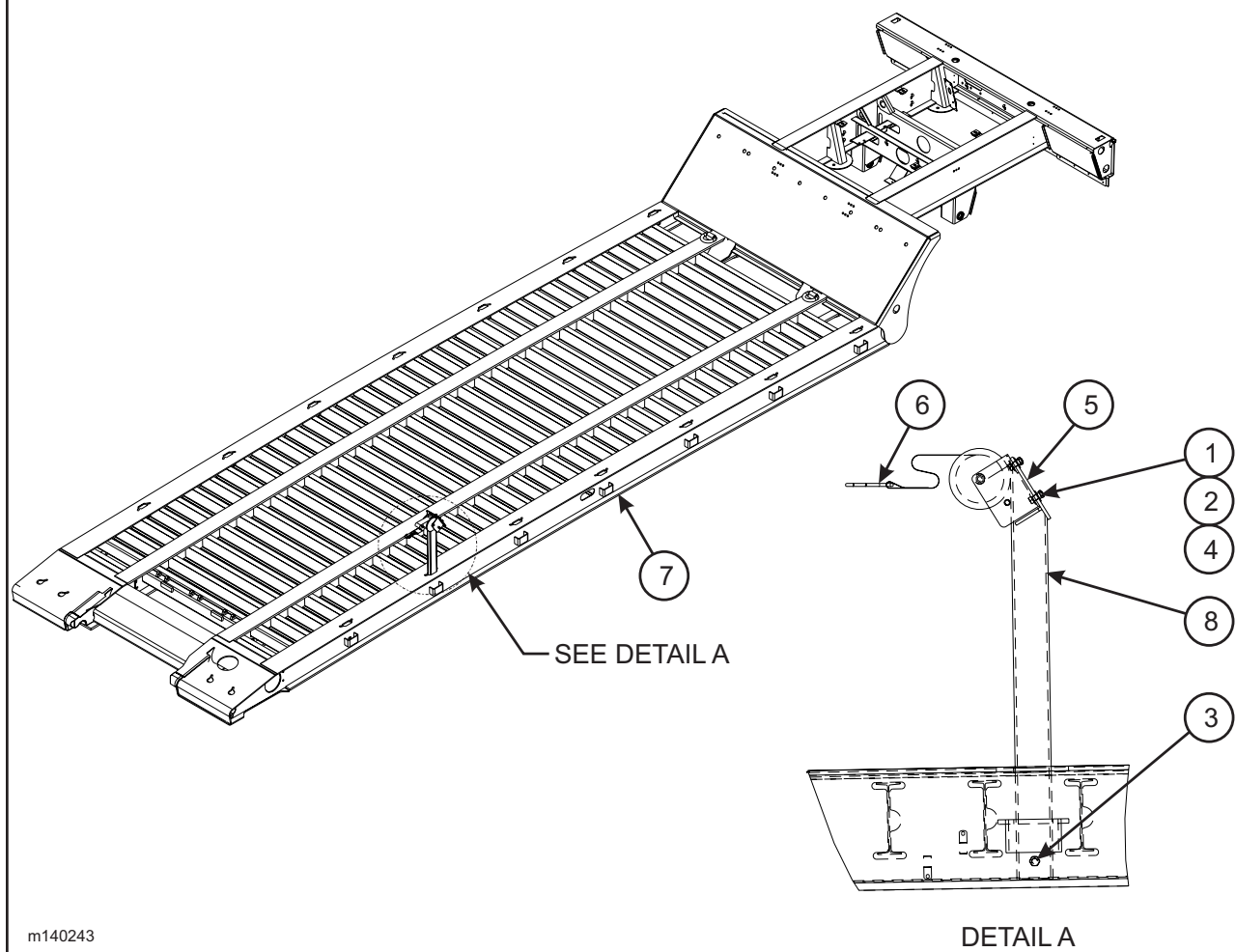


Figure 1-71 Ramp Lift Assembly (Option)

## RAMP LIFT ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 140243          | RAMP LIFT ASSEMBLY (OPTION)            |      |
| 1    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB               | 3    |
| 2    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5     | 3    |
| 3    | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5 | 1    |
| 4    | 1-861-010032-11 | WASHER, FLAT 3/8W                      | 6    |
| 5    | 130054          | WINCH, HAND                            | 1    |
| 6    | 130055          | STRAP, 2" X 25' W/ HOOK                | 1    |
| 7    | -----           | FRAME WELDMENT                         | REF  |
| 8    | 140242          | LIFT RAMP WELDMENT                     | 1    |

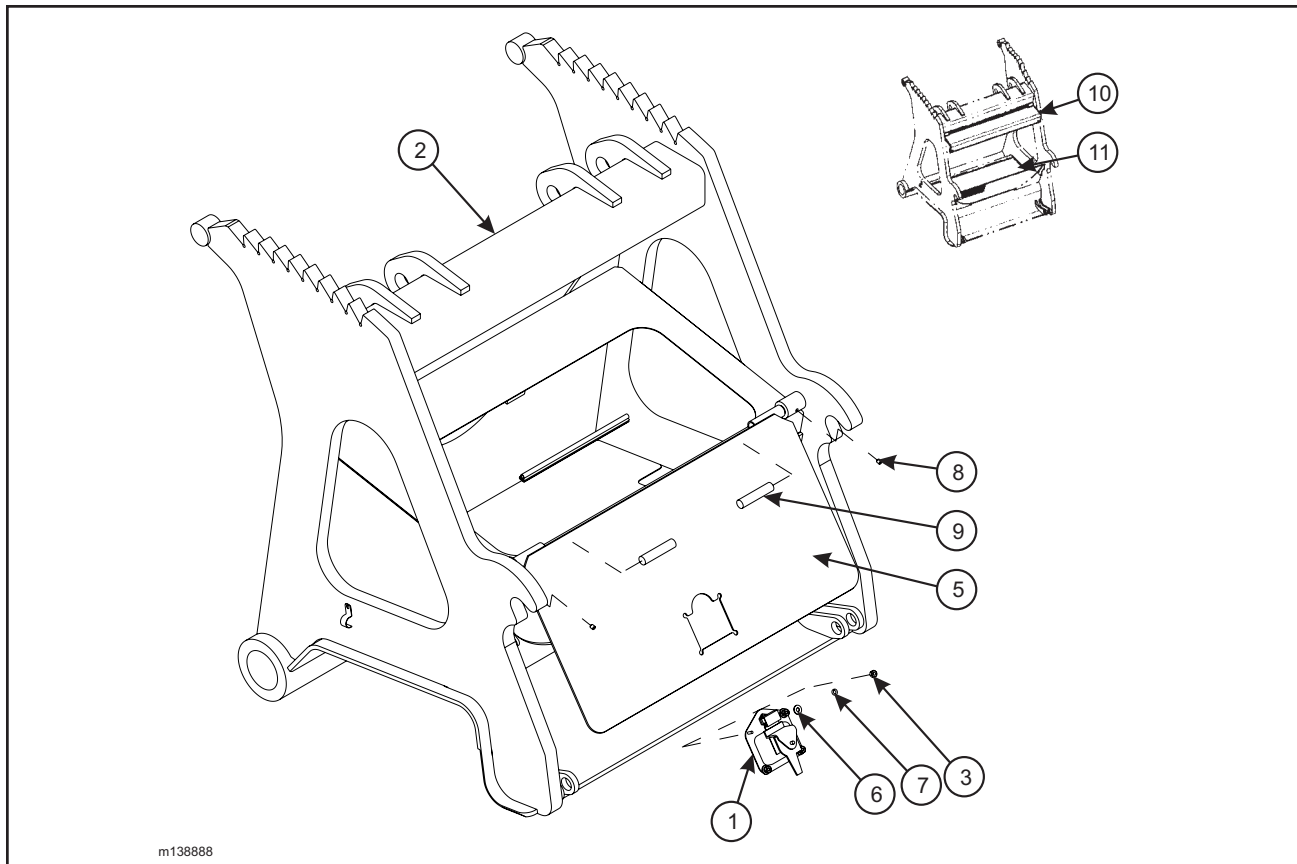


Figure 1-72 Toolbox Assembly (Option)

## TOOLBOX ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                   | QTY. |
|------|-----------------|-------------------------------|------|
|      | 138888          | TOOLBOX ASSEMBLY              |      |
| 1    | 114814          | LATCH, FOLDING T LOCKABLE     | 1    |
| 2    | 114815          | SEAL, SPONGE RUBBER TRIM      | AR   |
| 3    | 115877          | NUT, HEAVY HEX 1/4-20 GRB     | 4    |
| 4    | 138648          | TOOLBOX BETWEEN LOCKARMS      | 1    |
| 5    | 138887          | DOOR WELDMENT, TOOLBOX        | 1    |
| 6    | 1-861-010032-07 | WASHER, FLAT 1/4W             | 4    |
| 7    | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4        | 4    |
| 8    | 107-0975        | SCREW, SET LOCK 5/16-18 X 3/8 | 2    |
| 9    | RPRB59004X3H    | BAR, RD NYLATRON 3/4 X 3-1/2  | 2    |
| 10   | 114466          | RACK WELDMENT, CHAIN/BINDER   | 1    |
| 11   | 114469          | TRAY, CHAIN                   | 1    |

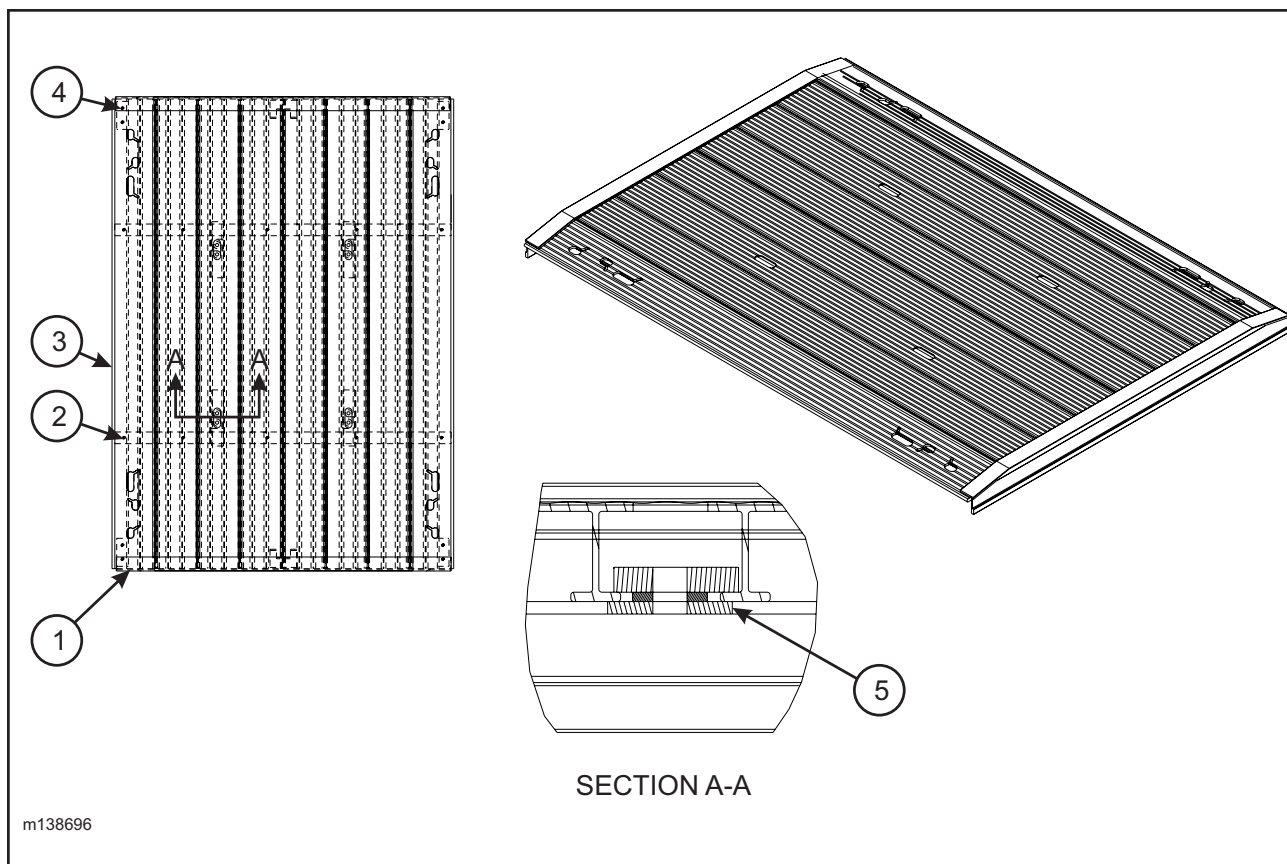


Figure 1-73 UHMW Under Aluminum Deck (Option)

### UHMW UNDER ALUMINUM DECK (OPTION)

| ITEM | PART NO. | DESCRIPTION                  | QTY. |
|------|----------|------------------------------|------|
|      | 138696   | UHMW UNDER ALUMINUM DECK     |      |
| 1    | 105193   | BED WELDMENT, ALUM           | REF  |
| 2    | 133844   | SCREW, TORX FLOORING 1/4 X 1 | 18   |
| 3    | 138697   | UHMW X 72                    | 2    |
| 4    | 138698   | UHMW X 6                     | 4    |
| 5    | 140055   | SPACER, NYLATRON BED         | 4    |

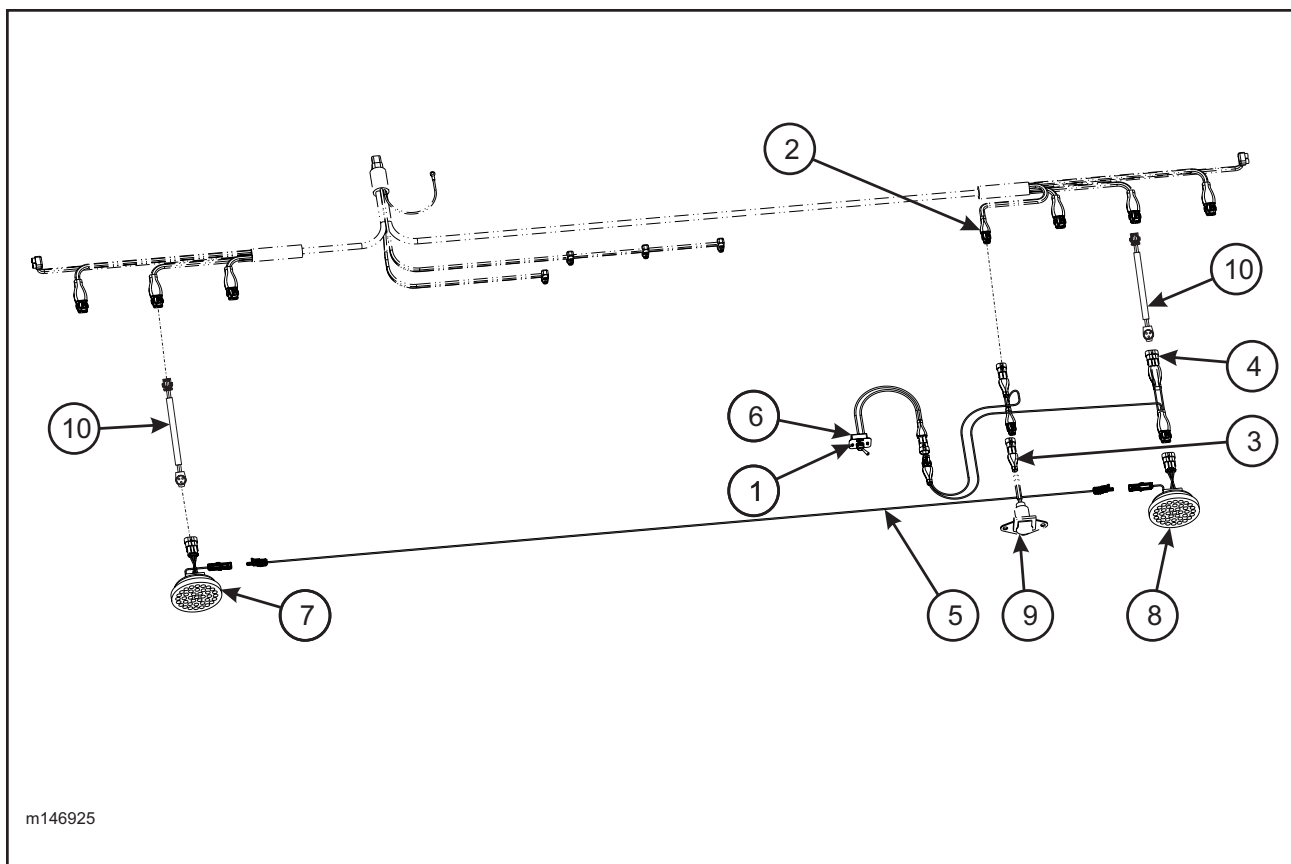


Figure 1-74 Rear Turn/Strobe Light Assembly (Option)

## REAR TURN/STROBE LIGHT ASSEMBLY (OPTION)

| ITEM | PART NO.     | DESCRIPTION                             | QTY. |
|------|--------------|-----------------------------------------|------|
|      | 146925       | STROBE BUMPER MOUNT LIGHT INSTALLATION  |      |
| 1    | 130116       | DECAL, ON/OFF LIGHT                     | 1    |
| 2    | 146926       | HARNESS, REAR MOD                       | REF  |
| 3    | 140019       | HARNESS ASSEMBLY, REAR 4 WAY RECEPTACLE | REF  |
| 4    | 140020       | HARNESS JUMPER STROBE LIGHT             | 1    |
| 5    | 140021       | HARNESS JUMPER, SYNC STROBE             | 1    |
| 6    | 140022       | SWITCH ASSEMBLY, STROBE LIGHT           | 1    |
| 7    | 130521       | LIGHT, STROBE                           | 1    |
| 8    | 130522       | LIGHT, STROBE                           | 1    |
| 9    | 3-272-010003 | 4 POLE ELECTRICAL FEMALE CONNECTOR      | REF  |
| 10   | 146927       | ADAPTER, PLUG                           | 2    |

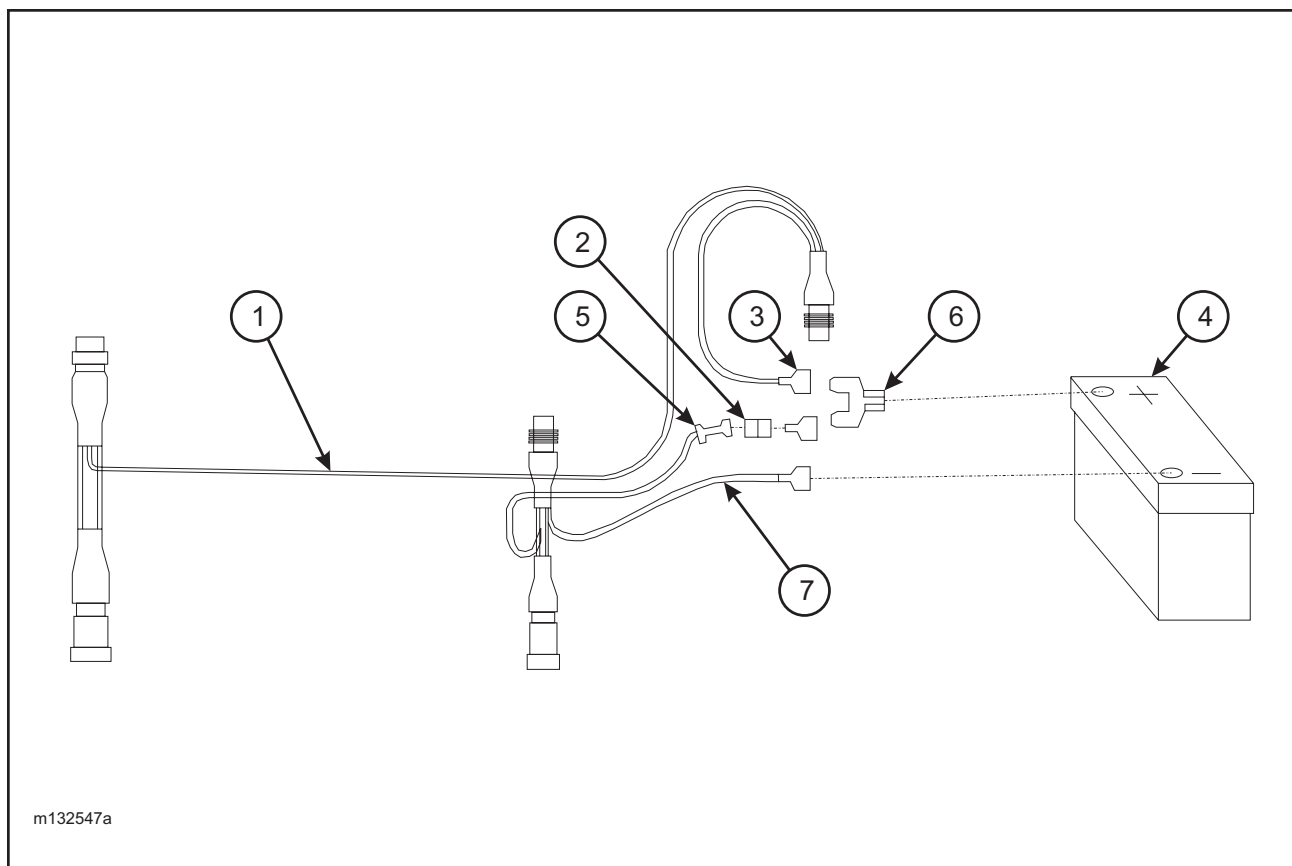


Figure 1-75 Battery Backup, Bumper Strobe Light (Option)

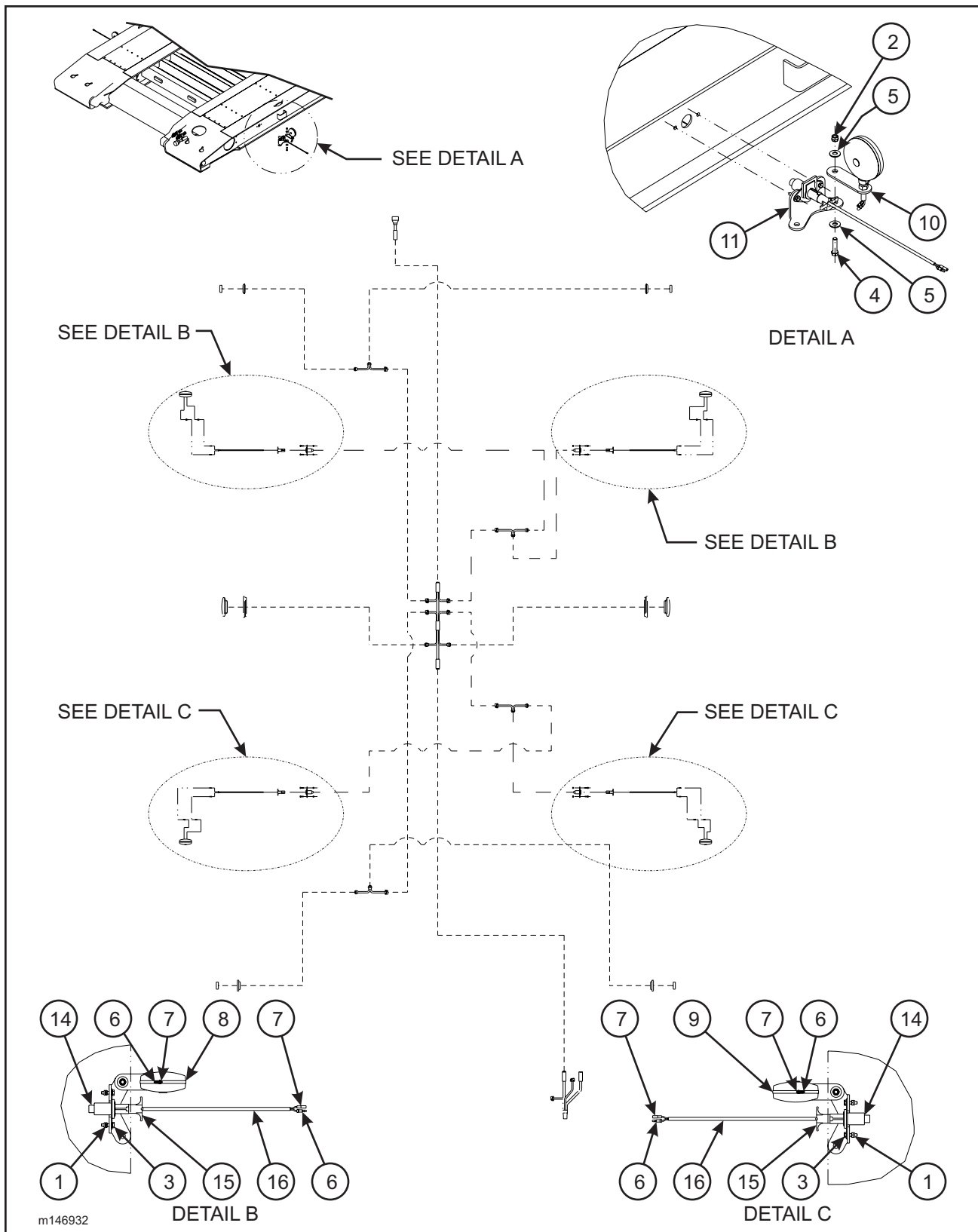
## BATTERY BACKUP BUMPER STROBE LIGHT

| ITEM | PART NO.     | DESCRIPTION                        | QTY. |
|------|--------------|------------------------------------|------|
|      | 132547       | BATTERY BACKUP BUMPER STROBE LIGHT |      |
| 1    | 140020       | HARNESS, JUMPER STROBE LIGHT       | REF  |
| 2    | 2-272-010109 | DIODE, ZENOR 20 V 5 WATT           | 1    |
| 3    | 239-3650-1   | TERMINAL, FEMALE SLIP ON           | 3    |
| 4    | 3-128-010032 | BATTERY BRAKE-AWAY                 | 1    |
| 5    | 3-272-010021 | ELECTRICAL BUTT SPLICE             | 2    |
| 6    | 3-272-010157 | ELECTRICAL ADAPTER CHAIR           | 1    |
| 7    | 1-879-010010 | WIRE, 14 AWG WHITE                 | AR   |



## PULLOUT EXTENSION MNTD LIGHT PACKAGE (OPTION)

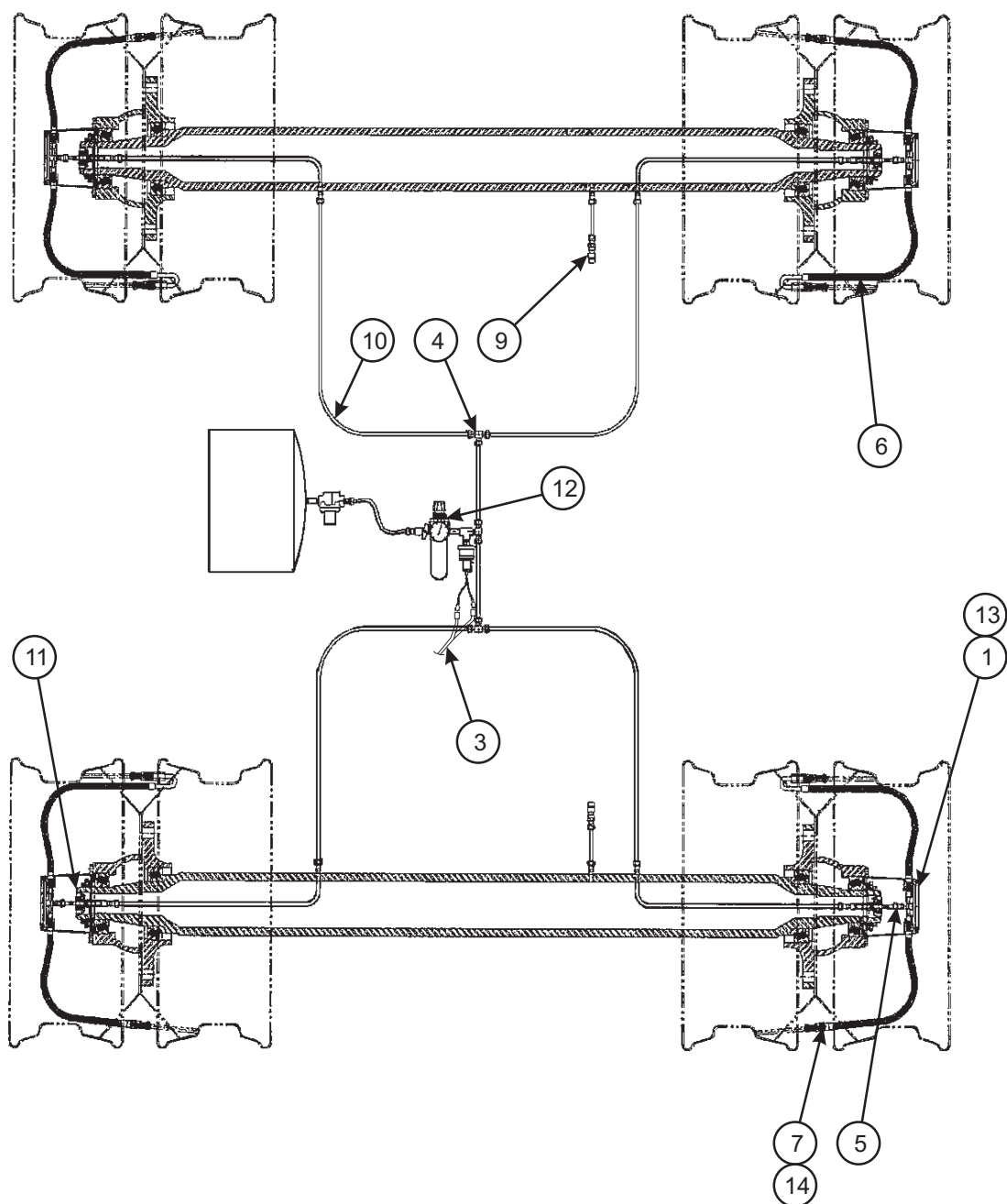
| ITEM | PART NO.        | DESCRIPTION                                   | QTY. |
|------|-----------------|-----------------------------------------------|------|
|      | 146931          | PULLOUT EXTENSION MNTD LIGHT PACKAGE (OPTION) |      |
| 1    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                      | 8    |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                      | 4    |
| 3    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5            | 8    |
| 4    | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5        | 4    |
| 5    | 1-861-010032-11 | WASHER, FLAT 3/8W                             | 8    |
| 6    | 104043          | CONNECTOR, .180 DIA MALE BULLET               | 8    |
| 7    | 104044          | CONNECTOR, .180 DIA FEMALE BULLET             | 8    |
| 8    | 112248          | NYLON SHOULDER WASHER                         | 8    |
| 9    | 112598          | PULL-OUT ASSEMBLY, RH                         | REF  |
| 11   | 112599          | PULL-OUT ASSEMBLY, LH                         | REF  |
| 13   | 129893          | LAMP, YELLOW TURN SIGNAL STUD MOUNT           | 2    |
| 14   | 129894          | LAMP, RED TURN SIGNAL STUD MOUNT              | 2    |
| 15   | 129895          | BRACKET, LAMP MOUNTING PULLOUT EXT            | 4    |
| 16   | 143106          | HARNESS, MARKER FRONT BED GROTE               | 2    |
| 17   | -----           | FRAME WELDMENT                                | REF  |
| 18   | 3-272-010003    | 4 POLE ELECTRICAL, FEMALE CONNECTOR           | 4    |
| 19   | 3-272-010010    | CONNECTOR ELECT 4 POLE MALE                   | 4    |
| 20   | W214S-1         | CABLE, 2 WIRE 14AWG PVC JACKET                | AR   |



**Figure 1-77 Web Mounted Four Corner Light Package (Option)**

## WEB MOUNTED FOUR CORNER LIGHT PKG (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                    | QTY. |
|------|-----------------|------------------------------------------------|------|
|      | 146932          | WEB MOUNTED FOUR CORNER LIGHT PACKAGE (OPTION) |      |
| 1    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                       | 8    |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                       | 4    |
| 3    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5             | 8    |
| 4    | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5         | 4    |
| 5    | 1-861-010032-11 | WASHER, FLAT 3/8W                              | 8    |
| 6    | 104043          | CONNECTOR, .180 DIA MALE BULLET                | 8    |
| 7    | 104044          | CONNECTOR, .180 DIA FEMALE BULLET              | 8    |
| 8    | 129893          | LAMP, YELLOW TURN SIGNAL STUD MOUNT            | 2    |
| 9    | 129894          | LAMP, RED TURN SIGNAL STUD MOUNT               | 2    |
| 10   | 139132          | BRACKET, LAMP MOUNTING SWING                   | 4    |
| 11   | 139133          | BRACKET, LAMP MOUNTING STATIONARY              | 4    |
| 12   | 143106          | HARNESS, MARKER FRONT BED GROTE                | 2    |
| 13   | -----           | FRAME WELDMENT                                 | REF  |
| 14   | 3-272-010003    | 4 POLE ELECTRICAL FEMALE CONNECTOR             | 4    |
| 15   | 3-272-010010    | CONNECTOR, ELECT 4 POLE MALE                   | 4    |
| 16   | W214S-1         | CABLE, 2 WIRE 14AWG PVC JACKET                 | AR   |



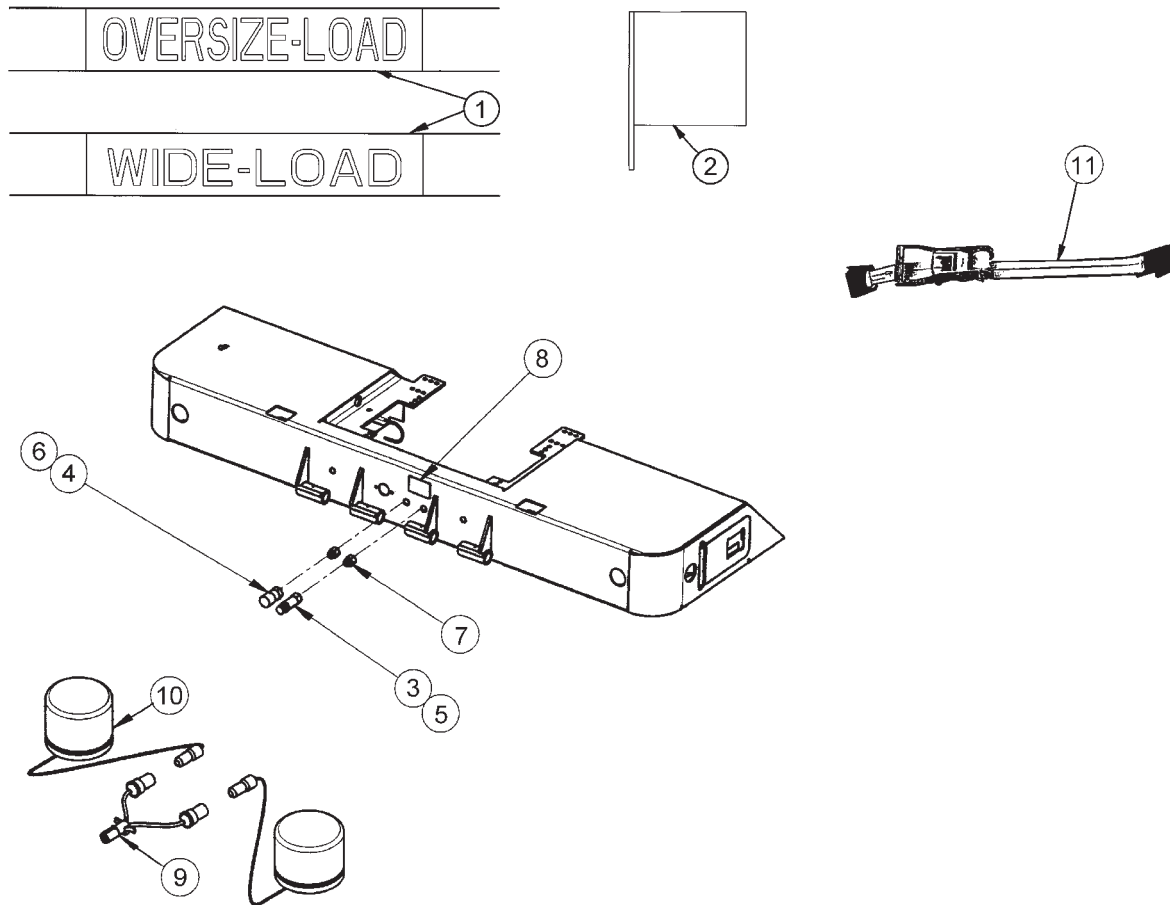
m135346

Figure 1-78 Tire Inflation System (Option)

## TIRE INFLATION SYSTEM (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                                                                                                                         | QTY.  |
|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|      | 135346          | TIRE INFLATION SYSTEM 2AX                                                                                                                           |       |
|      | 137791          | TIRE INFLATION SYSTEM 3AX                                                                                                                           |       |
| 1    | 148412          | HUBCAP GASKET - 6 HOLE                                                                                                                              | *4, 6 |
| 2    | 1-796-010004-02 | 21" X 3/8 WIRE TIE (NOT SHOWN)                                                                                                                      | *6, 9 |
| 3    | W-214S-1        | WARNING LIGHT WIRING                                                                                                                                | AR    |
| 4    | 148413          | DUAL AXLE HARDWARE KIT (135346)                                                                                                                     | 1     |
|      | 148417          | TRIPLE AXLE HARDWARE KIT (137791)<br>(KITS INCL TEES, TUBE STRAIN RELIEF, SCREWS,<br>PRESSURE RELIEF VALVE, WARNING LIGHT, AND<br>ELECTRICAL PARTS) | 1     |
| 5    | 148414          | ROTATING SHAFT ASSEMBLY .900"                                                                                                                       | *4, 6 |
| 6    | 145621          | HOSE ASSEMBLY, OUTER DUAL LG TIRES                                                                                                                  | *4, 6 |
| 7    | 145620          | HOSE ASSEMBLY, INNER DUAL LG TIRES                                                                                                                  | *4, 6 |
| 9    | 148415          | AXLE VENT ASSEMBLY W/ DUCKBILL                                                                                                                      | *2, 3 |
| 10   | 1-833-010001    | NYLON TUBE                                                                                                                                          | AR    |
| 11   | 139528          | 1.75" INTEGRATED SPINDLE PLUG AXLE KIT                                                                                                              | *2, 3 |
| 12   | 148416          | REGULATOR ASSEMBLY, W/O PRESSURE GAUGE                                                                                                              | 1     |
| 13   | 139529          | LOW PROFILE 5.5" HUBCAP ASSEMBLY                                                                                                                    | *4, 6 |
| 14   | 148418          | HAND TIGHT HUBCAP CONNECTION, VALVE<br>ASSY (137791)                                                                                                | 12    |

\* 1ST QUANTITY IS FOR P/N 135346; 2ND QUANTITY IS FOR P/N 137791



105297

Figure 1-79 Miscellaneous Options

## MISCELLANEOUS OPTIONS

| ITEM | PART NO.    | DESCRIPTION                                  | QTY. |
|------|-------------|----------------------------------------------|------|
|      | 105297      | BANNER/FLAG KIT WIDE/OVS LS                  |      |
| 1    | 106655      | BANNER WIDE/OVERSIZE LOAD                    | 1    |
| 2    | 106654      | FLAG, OVERWIDTH                              | 6    |
|      | 105902      | HYDRAULIC CONVERSION KIT, BALL TO FLAT       |      |
| 3    | 105479      | COUPLER, FLAT FACE MALE NOSE                 | 1    |
| 4    | 105480      | COUPLER, FLAT FACE FEMALE NOSE               | 1    |
| 5    | 105481      | COUPLER, DUST CAP MALE                       | 1    |
| 6    | 105482      | COUPLER, DUST CAP FEMALE                     | 1    |
| 7    | 2216-12-12S | INTERNAL PIPE, O-RING BOSS                   | 2    |
| 8    | 105822      | DECAL, HYD COUPLER                           | 1    |
|      | 105296      | LIGHT PACKAGE TWO MAG. STROBES               |      |
| 9    | 105288      | ELECTRICAL, DC-Y ADAPTER                     | 1    |
| 10   | 106684      | STROBE, LIGHT - MAGNETIC BASE                | 2    |
|      | 127754      | REPLACEMENT FLASH TUBE                       | 1    |
| 11   | 100696      | STRAP, RATCHET ASSEMBLY (NO PARTS BREAKDOWN) | 2    |
|      | 137108      | HUBODOMETER INSTALLATION (NOT SHOWN)         |      |
| 13   | 112529      | BRACKET, HUBODOMETER                         | 1    |
| 14   | 113109      | HUBODOMETER, 572 RPM                         | 1    |

**NOTES:**

---

# NUMERICAL INDEX

2

| PART              | PAGE | PART         | PAGE | PART     | PAGE |
|-------------------|------|--------------|------|----------|------|
| #242 LOCKTITE     | 103  | 1-007-010006 | 107  | 10466    | 094  |
| 005-096-00        | 043  | 1-007-010025 | 045  | 105-0094 | 004  |
| 005-098-00        | 043  | 1-007-010025 | 047  | 105-0105 | 103  |
| 005-099-00        | 043  | 10078        | 081  | 105098   | 004  |
| 005-134-00        | 043  | 10078        | 084  | 105098   | 079  |
| 006-114-00        | 043  | 100855       | 004  | 105099   | 004  |
| 006-115-00        | 043  | 101003       | 060  | 105099   | 079  |
| 010-052-00        | 043  | 101003       | 073  | 105132   | 017  |
| 014-056-00        | 043  | 101160       | 077  | 105132   | 023  |
| 014-058-00        | 043  | 1014-4       | 086  | 105190   | 009  |
| 014-065-00        | 043  | 101528       | 017  | 105193   | 009  |
| 014-068-00        | 043  | 101528       | 023  | 105193   | 123  |
| 021-038-01 (4009) | 077  | 101528       | 033  | 105195   | 079  |
| 024-100-00        | 043  | 101848       | 075  | 105195   | 089  |
| 034-057-01        | 043  | 101851       | 075  | 105209   | 004  |
| 034-058-01        | 043  | 101855       | 075  | 105212   | 004  |
| 034-192-08        | 043  | 101855       | 097  | 105212   | 025  |
| 034-193-08        | 043  | 1019-4       | 086  | 105212   | 045  |
| 040-180-00        | 043  | 102-0323     | 102  | 105212   | 047  |
| 041-058-01        | 043  | 102-0511     | 102  | 105237   | 004  |
| 041-059-01        | 043  | 1021         | 086  | 105239   | 004  |
| 046-096-00        | 043  | 102186       | 079  | 105241   | 004  |
| 046-097-00        | 043  | 102732       | 027  | 105242   | 004  |
| 055-040-06        | 043  | 102732       | 029  | 105243   | 004  |
| 056-017-00        | 043  | 102732       | 039  | 105245   | 004  |
| 056-018-00        | 043  | 103738       | 067  | 10525    | 093  |
| 061-006-00        | 043  | 103738       | 071  | 105257   | 005  |
| 069-078-00        | 043  | 103861       | 060  | 105272   | 004  |
| 071-122-00        | 043  | 103861       | 063  | 105274   | 045  |
| 071-124-00 (3067) | 077  | 103861       | 067  | 105274   | 047  |
| 097-002-00        | 043  | 103861       | 071  | 105275   | 045  |
| 097-003-00        | 043  | 103861       | 075  | 105275   | 047  |
| 1/4-20 X 1-1/4 CB | 102  | 104043       | 111  | 105276   | 047  |
| 1/4-20WN          | 103  | 104043       | 127  | 105276   | 105  |
| 10030             | 105  | 104043       | 129  | 105277   | 045  |
| 1004-3            | 086  | 104044       | 127  | 105280   | 097  |
| 1004-6            | 086  | 104044       | 129  | 105281   | 097  |
| 100600            | 079  | 104-0505     | 103  | 105282   | 097  |
| 100600            | 079  | 104252       | 013  | 105283   | 097  |
| 100600            | 089  | 104253       | 013  | 105285   | 004  |
| 100696            | 133  | 1046         | 086  | 105288   | 133  |

| <b>PART</b>  | <b>PAGE</b> | <b>PART</b> | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|--------------|-------------|-------------|-------------|-----------------|-------------|
| 105290       | 097         | 106759      | 107         | 110618          | 031         |
| 105291       | 097         | 106760      | 107         | 110618          | 035         |
| 105294       | 099         | 106943      | 004         | 110620          | 037         |
| 105296       | 133         | 106945      | 004         | 110622          | 017         |
| 105297       | 133         | 106961      | 004         | 110622          | 023         |
| 105300       | 114         | 10708       | 093         | 110622          | 027         |
| 105300       | 115         | 107-0975    | 122         | 110622          | 029         |
| 105301       | 079         | 107498      | 107         | 110622          | 037         |
| 105390       | 041         | 107499      | 107         | 110743          | 017         |
| 105408       | 035         | 107513      | 107         | 110744          | 017         |
| 105408       | 037         | 107887      | 025         | 110975(2023——T) | 077         |
| 105479       | 045         | 107888      | 005         | 110976(66884)   | 077         |
| 105479       | 047         | 10848       | 094         | 111010          | 035         |
| 105479       | 099         | 108801      | 025         | 111021          | 027         |
| 105479       | 107         | 108801      | 060         | 111021          | 029         |
| 105479       | 133         | 108801      | 063         | 111021          | 039         |
| 105480       | 045         | 108801      | 067         | 111030          | 035         |
| 105480       | 047         | 108801      | 071         | 111031          | 035         |
| 105480       | 099         | 108802      | 025         | 111033          | 035         |
| 105480       | 107         | 108802      | 060         | 111033          | 037         |
| 105480       | 133         | 108802      | 063         | 111034          | 037         |
| 105481       | 045         | 108802      | 067         | 111035          | 037         |
| 105481       | 047         | 108802      | 071         | 111036          | 035         |
| 105481       | 107         | 108859      | 013         | 111036          | 037         |
| 105481       | 133         | 109166      | 045         | 111037          | 037         |
| 105482       | 045         | 1-1/4ST ELL | 107         | 111038          | 037         |
| 105482       | 047         | 110-05-099  | 035         | 111-1267        | 102         |
| 105482       | 107         | 110-05-104  | 037         | 11117           | 081         |
| 105482       | 133         | 11011       | 081         | 11128           | 081         |
| 105483       | 045         | 11014       | 085         | 11129           | 081         |
| 105483       | 047         | 11025       | 085         | 11130           | 082         |
| 105822       | 097         | 11026       | 084         | 11133           | 081         |
| 105822       | 133         | 11026       | 085         | 111382          | 087         |
| 105902       | 133         | 110-4337    | 103         | 111390          | 087         |
| 1-060-010004 | 102         | 110510      | 004         | 111416          | 077         |
| 106-0078     | 103         | 110526      | 114         | 111417          | 077         |
| 106611       | 017         | 110526      | 115         | 11142           | 081         |
| 106654       | 133         | 110527      | 114         | 11144           | 081         |
| 106655       | 133         | 110616      | 035         | 1114-5          | 086         |
| 106657       | 097         | 110618      | 017         | 111641          | 089         |
| 106658       | 097         | 110618      | 023         | 111641          | 091         |
| 106684       | 133         | 110618      | 027         | 111652          | 077         |
| 106693       | 097         | 110618      | 029         | 112172          | 099         |

| <b>PART</b> | <b>PAGE</b> | <b>PART</b> | <b>PAGE</b> | <b>PART</b>  | <b>PAGE</b> |
|-------------|-------------|-------------|-------------|--------------|-------------|
| 112172      | 105         | 11429       | 084         | 115757       | 033         |
| 112174      | 105         | 11430       | 084         | 115757       | 073         |
| 112175      | 105         | 11431       | 084         | 115877       | 122         |
| 112184      | 099         | 11434       | 084         | 11599        | 084         |
| 112248      | 105         | 11435       | 085         | 11603        | 093         |
| 112248      | 127         | 11440       | 084         | 1165         | 094         |
| 112324      | 041         | 11441       | 084         | 116606       | 049         |
| 112325      | 041         | 11442       | 084         | 117304       | 063         |
| 112326      | 041         | 11443       | 093         | 117304       | 071         |
| 112326      | 117         | 11445       | 084         | 11750        | 093         |
| 11240       | 082         | 11446       | 084         | 11767        | 081         |
| 112488      | 037         | 114466      | 122         | 117835       | 097         |
| 112489      | 037         | 114469      | 122         | 117838       | 025         |
| 112529      | 133         | 11449       | 084         | 117839       | 025         |
| 112598      | 013         | 114568      | 097         | 11791        | 085         |
| 112598      | 127         | 114569      | 097         | 11799        | 081         |
| 112599      | 013         | 114584      | 060         | 118005       | 105         |
| 112599      | 127         | 114584      | 063         | 118006       | 105         |
| 112621      | 013         | 114584      | 075         | 118-2650-6   | 031         |
| 112622      | 013         | 114586      | 063         | 118-2650-6   | 073         |
| 112655      | 013         | 114586      | 067         | 118-2659-9   | 063         |
| 112986      | 113         | 114586      | 071         | 118-2659-9   | 071         |
| 112987      | 113         | 114586      | 075         | 11837        | 082         |
| 113026      | 013         | 114587      | 075         | 11842        | 085         |
| 11308       | 081         | 114588      | 075         | 1188         | 093         |
| 11309       | 084         | 114590      | 060         | 11977        | 093         |
| 11310       | 084         | 114590      | 063         | 120675       | 009         |
| 113109      | 133         | 114590      | 067         | 120680       | 097         |
| 113292      | 037         | 114590      | 071         | 120681       | 097         |
| 11368       | 081         | 114590      | 075         | 120682       | 097         |
| 11398       | 085         | 114723      | 009         | 120685       | 013         |
| 11402       | 084         | 114724      | 009         | 12073        | 084         |
| 11404       | 084         | 114741      | 013         | 12075        | 081         |
| 11405       | 084         | 114814      | 122         | 120819       | 023         |
| 11407       | 084         | 114815      | 122         | 121355       | 017         |
| 11411       | 084         | 1157        | 094         | 121355       | 023         |
| 11414       | 084         | 115717      | 043         | 121355       | 033         |
| 11419       | 084         | 115722      | 043         | 12146        | 085         |
| 11420       | 084         | 115752      | 017         | 12-16 070120 | 107         |
| 11421       | 084         | 115752      | 023         | 12228        | 085         |
| 11425       | 084         | 115756      | 017         | 124344       | 116         |
| 11426       | 085         | 115756      | 023         | 124345       | 116         |
| 11427       | 084         | 115757      | 023         | 124348       | 116         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| 12465           | 084         | 1-297-010007-05 | 041         | 1-297-010013-16 | 063         |
| 12486           | 094         | 1-297-010007-06 | 025         | 1-297-010013-16 | 067         |
| 125130          | 099         | 1-297-010008-05 | 025         | 1-297-010013-16 | 071         |
| 125130          | 107         | 1-297-010008-05 | 041         | 1-297-010015-03 | 089         |
| 12516           | 094         | 1-297-010008-07 | 025         | 1-297-010015-03 | 091         |
| 125520          | 013         | 1-297-010008-07 | 027         | 1-297-010015-06 | 025         |
| 125833          | 115         | 1-297-010008-07 | 029         | 1-297-010015-07 | 060         |
| 125836          | 115         | 1-297-010008-07 | 041         | 1-297-010015-07 | 063         |
| 125872          | 045         | 1-297-010008-07 | 089         | 1-297-010015-07 | 067         |
| 126359          | 111         | 1-297-010008-07 | 091         | 1-297-010015-07 | 071         |
| 1-271-010005-05 | 102         | 1-297-010008-18 | 025         | 1-297-010018-02 | 025         |
| 12767           | 085         | 1-297-010008-18 | 031         | 1-297-010020-02 | 025         |
| 127754          | 133         | 1-297-010008-18 | 060         | 1-297-010020-02 | 041         |
| 12780           | 081         | 1-297-010008-18 | 063         | 1-297-010022-02 | 025         |
| 12781           | 085         | 1-297-010008-18 | 067         | 1-297-010022-03 | 029         |
| 12783           | 084         | 1-297-010008-18 | 071         | 1-297-010022-03 | 031         |
| 127844          | 023         | 1-297-010008-20 | 025         | 1-297-010022-03 | 060         |
| 12817           | 082         | 1-297-010008-20 | 060         | 1-297-010022-03 | 063         |
| 128436          | 111         | 1-297-010008-20 | 063         | 1-297-010022-03 | 067         |
| 128650          | 017         | 1-297-010008-20 | 067         | 1-297-010022-03 | 071         |
| 128661          | 013         | 1-297-010008-20 | 071         | 1-297-010033-03 | 025         |
| 128699          | 009         | 1-297-010008-23 | 063         | 129857          | 023         |
| 128709          | 004         | 1-297-010008-24 | 063         | 129874          | 023         |
| 128709          | 047         | 1-297-010008-26 | 063         | 129875          | 013         |
| 128711          | 013         | 1-297-010008-26 | 071         | 129876          | 009         |
| 128712          | 013         | 1-297-010009-02 | 041         | 129877          | 009         |
| 128715          | 009         | 1-297-010009-03 | 025         | 129879          | 114         |
| 128739          | 031         | 1-297-010010-01 | 041         | 129879          | 115         |
| 128797          | 013         | 1-297-010010-03 | 029         | 129893          | 127         |
| 128798          | 013         | 1-297-010010-04 | 027         | 129893          | 129         |
| 128868          | 097         | 1-297-010010-04 | 029         | 129894          | 127         |
| 128874          | 011         | 1-297-010010-06 | 063         | 129894          | 129         |
| 128886          | 007         | 1-297-010010-06 | 071         | 129895          | 127         |
| 129293          | 023         | 1-297-010011-04 | 027         | 13005           | 081         |
| 129311          | 009         | 1-297-010011-04 | 029         | 130054          | 121         |
| 129312          | 009         | 1-297-010011-04 | 031         | 130055          | 121         |
| 1-295-010001    | 099         | 1-297-010013-11 | 025         | 130116          | 097         |
| 1-295-010001    | 102         | 1-297-010013-11 | 027         | 130116          | 124         |
| 1-295-010001    | 107         | 1-297-010013-11 | 029         | 13028           | 082         |
| 1296            | 086         | 1-297-010013-12 | 029         | 13028           | 085         |
| 1-297-010004-04 | 025         | 1-297-010013-12 | 031         | 130283          | 011         |
| 1-297-010004-07 | 060         | 1-297-010013-12 | 063         | 130284          | 011         |
| 1-297-010007-05 | 025         | 1-297-010013-16 | 060         | 130511          | 004         |

| <b>PART</b>  | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>      | <b>PAGE</b> |
|--------------|-------------|-----------------|-------------|------------------|-------------|
| 130521       | 124         | 135184          | 089         | 138648           | 122         |
| 130522       | 124         | 135184          | 091         | 138696           | 123         |
| 130534       | 079         | 135184          | 097         | 138697           | 123         |
| 130535       | 079         | 135260          | 119         | 138698           | 123         |
| 130536       | 079         | 135261          | 119         | 138711           | 005         |
| 130536       | 091         | 135346          | 131         | 138711           | 045         |
| 131150       | 009         | 135777          | 114         | 138711           | 047         |
| 131151       | 009         | 135777          | 115         | 138711           | 049         |
| 131195       | 007         | 135811          | 118         | 138712           | 045         |
| 13164        | 094         | 135812          | 118         | 138712           | 047         |
| 1317         | 094         | 13675           | 094         | 1388             | 093         |
| 131900       | 004         | 13680           | 081         | 138814           | 005         |
| 131900       | 045         | 136870          | 007         | 138887           | 122         |
| 13235        | 094         | 136871          | 007         | 138888           | 122         |
| 132547       | 125         | 136908          | 007         | 138961           | 017         |
| 132833       | 089         | 137108          | 133         | 138961           | 023         |
| 132833       | 091         | 137548          | 089         | 138962           | 017         |
| 13285        | 093         | 137550          | 091         | 138962           | 023         |
| 13286        | 093         | 1376            | 093         | 139132           | 129         |
| 13288        | 093         | 137724          | 093         | 139133           | 129         |
| 13288        | 094         | 137791          | 131         | 139140           | 102         |
| 13288        | 094         | 1-382-010035-06 | 089         | 13938            | 084         |
| 13295        | 094         | 1-382-010035-06 | 091         | 1395             | 094         |
| 13296        | 094         | 13839           | 082         | 139528           | 131         |
| 13297        | 094         | 1-384-010038024 | 031         | 139529           | 131         |
| 13299        | 093         | 1-384-010038024 | 063         | 139559           | 097         |
| 13300        | 094         | 1-384-010038024 | 071         | 139600           | 077         |
| 13301        | 094         | 1-384-010038038 | 031         | 1-397-0100305060 | 047         |
| 13306        | 094         | 1-384-010038038 | 063         | 1-397-010301024  | 045         |
| 13316        | 093         | 1-384-010038038 | 067         | 1-397-010301024  | 047         |
| 13317        | 093         | 1-384-010038038 | 071         | 1-397-010301024  | 099         |
| 13330        | 093         | 1-384-010038054 | 073         | 1-397-010301054  | 047         |
| 13356        | 093         | 1-384-010038056 | 025         | 1-397-010301100  | 107         |
| 133844       | 123         | 1-384-010038060 | 060         | 1-397-010302042  | 105         |
| 13413        | 085         | 1-384-010038060 | 063         | 1-397-010302050  | 089         |
| 13424        | 082         | 1-384-010038060 | 067         | 1-397-010302050  | 091         |
| 13424        | 085         | 1-384-010038060 | 071         | 1-397-010302060  | 079         |
| 1-343-010001 | 105         | 1-384-010038084 | 060         | 1-397-010302060  | 102         |
| 1-343-010007 | 117         | 1-384-010038084 | 063         | 1-397-010302078  | 047         |
| 13468        | 081         | 1-384-010038084 | 067         | 1-397-010304016  | 102         |
| 134757       | 077         | 1-384-010038084 | 071         | 1-397-010304025  | 045         |
| 134979       | 013         | 1-384-010038090 | 067         | 1-397-010304025  | 047         |
| 134980       | 013         | 138532          | 017         | 1-397-010304048  | 099         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b> | <b>PAGE</b> | <b>PART</b> | <b>PAGE</b> |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| 1-397-010305060 | 103         | 143110      | 053         | 146909      | 004         |
| 1-397-010318018 | 103         | 143110      | 055         | 146909      | 047         |
| 140019          | 055         | 143110      | 057         | 146910      | 023         |
| 140019          | 057         | 143111      | 055         | 146910      | 029         |
| 140019          | 124         | 143111      | 057         | 146911      | 023         |
| 140020          | 124         | 143112      | 055         | 146911      | 029         |
| 140020          | 125         | 143114      | 055         | 146912      | 023         |
| 140021          | 124         | 143117      | 055         | 146912      | 029         |
| 140022          | 124         | 143117      | 057         | 146913      | 023         |
| 140055          | 123         | 143118      | 055         | 146913      | 029         |
| 1402            | 093         | 143118      | 057         | 146914      | 023         |
| 140242          | 121         | 143119      | 055         | 146914      | 029         |
| 140243          | 121         | 143121      | 053         | 146918      | 023         |
| 140319          | 049         | 143121      | 055         | 146918      | 029         |
| 140333          | 017         | 143594      | 117         | 146919      | 031         |
| 14068           | 094         | 143595      | 117         | 146919      | 033         |
| 142064          | 007         | 143596      | 117         | 146919      | 057         |
| 142065          | 007         | 144609      | 055         | 146922      | 017         |
| 142441          | 033         | 144614      | 023         | 146922      | 023         |
| 142445          | 017         | 144679      | 055         | 146924      | 017         |
| 142445          | 023         | 144679      | 057         | 146924      | 023         |
| 142446          | 017         | 144680      | 055         | 146925      | 124         |
| 142446          | 023         | 144680      | 057         | 146926      | 055         |
| 142451          | 023         | 144736      | 103         | 146926      | 057         |
| 142545          | 017         | 145620      | 131         | 146926      | 124         |
| 142545          | 023         | 145621      | 131         | 146927      | 124         |
| 142545          | 033         | 145690      | 093         | 146929      | 055         |
| 142553          | 017         | 146897      | 053         | 146931      | 127         |
| 142553          | 023         | 146897      | 055         | 146932      | 129         |
| 142553          | 033         | 146898      | 055         | 146936      | 023         |
| 142553          | 097         | 146898      | 057         | 148137      | 049         |
| 143100          | 053         | 146899      | 004         | 148138      | 049         |
| 143101          | 053         | 146899      | 045         | 148139      | 049         |
| 143102          | 055         | 146901      | 017         | 148140      | 049         |
| 143103          | 055         | 146901      | 027         | 148141      | 049         |
| 143105          | 053         | 146902      | 017         | 148142      | 049         |
| 143106          | 055         | 146902      | 027         | 148143      | 049         |
| 143106          | 127         | 146903      | 017         | 148144      | 049         |
| 143106          | 129         | 146903      | 027         | 148412      | 131         |
| 143108          | 055         | 146904      | 017         | 148413      | 131         |
| 143108          | 057         | 146904      | 027         | 148414      | 131         |
| 143109          | 053         | 146905      | 017         | 148415      | 131         |
| 143109          | 055         | 146905      | 027         | 148416      | 131         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| 148417          | 131         | 1-512-010005-05 | 067         | 1-512-010007-11 | 004         |
| 148418          | 131         | 1-512-010005-05 | 071         | 153032          | 103         |
| 1495            | 093         | 1-512-010005-05 | 073         | 1-533-010001    | 013         |
| 1498            | 093         | 1-512-010005-05 | 079         | 1-557-010013    | 116         |
| 1505            | 094         | 1-512-010005-05 | 102         | 1-557-010014    | 113         |
| 1-510-010001    | 005         | 1-512-010005-05 | 105         | 1-557-010362-63 | 113         |
| 1-510-010001    | 007         | 1-512-010005-05 | 107         | 1-557-010362-63 | 113         |
| 1-510-010001    | 009         | 1-512-010005-05 | 121         | 1-560-010002-03 | 060         |
| 1-510-010001    | 017         | 1-512-010005-05 | 127         | 1-560-010002-03 | 063         |
| 1-510-010001    | 023         | 1-512-010005-05 | 129         | 1-560-010002-03 | 067         |
| 1-510-010001    | 045         | 1-512-010005-09 | 004         | 1-560-010002-03 | 071         |
| 1-510-010001    | 047         | 1-512-010005-09 | 007         | 1-560-010002-04 | 060         |
| 1-510-010001    | 063         | 1-512-010005-09 | 013         | 1-560-010002-04 | 063         |
| 1-510-010001    | 071         | 1-512-010005-09 | 017         | 1-560-010002-04 | 067         |
| 1-510-010001    | 117         | 1-512-010005-09 | 079         | 1-560-010002-04 | 071         |
| 1-510-010003-09 | 011         | 1-512-010005-09 | 079         | 1-560-010002-04 | 073         |
| 1-510-010003-09 | 117         | 1-512-010005-09 | 087         | 1-560-010002-04 | 107         |
| 1-512-010003-06 | 041         | 1-512-010005-09 | 089         | 1-560-010002-05 | 060         |
| 1-512-010004-03 | 105         | 1-512-010005-09 | 091         | 1-560-010002-05 | 067         |
| 1-512-010005-01 | 039         | 1-512-010005-09 | 102         | 1-560-010002-05 | 071         |
| 1-512-010005-01 | 045         | 1-512-010005-09 | 107         | 1-560-010002-05 | 102         |
| 1-512-010005-01 | 047         | 1-512-010005-09 | 113         | 1-560-010002-05 | 107         |
| 1-512-010005-01 | 055         | 1-512-010005-09 | 113         | 1-560-010002-07 | 107         |
| 1-512-010005-01 | 057         | 1-512-010005-09 | 115         | 1-573-010476    | 097         |
| 1-512-010005-01 | 060         | 1-512-010005-13 | 004         | 1-573-010477    | 011         |
| 1-512-010005-01 | 063         | 1-512-010005-13 | 089         | 1-573-010477    | 097         |
| 1-512-010005-01 | 067         | 1-512-010005-13 | 091         | 1-573-010478    | 011         |
| 1-512-010005-01 | 071         | 1-512-010005-15 | 004         | 1-573-010478    | 097         |
| 1-512-010005-01 | 102         | 1-512-010005-15 | 035         | 1-573-010480    | 097         |
| 1-512-010005-01 | 111         | 1-512-010005-15 | 037         | 1-573-010481    | 097         |
| 1-512-010005-01 | 127         | 1-512-010005-15 | 089         | 1-573-010482    | 097         |
| 1-512-010005-01 | 129         | 1-512-010005-15 | 091         | 1590            | 094         |
| 1-512-010005-03 | 041         | 1-512-010005-15 | 115         | 1595            | 094         |
| 1-512-010005-03 | 041         | 1-512-010005-19 | 099         | 1-630-010021-01 | 004         |
| 1-512-010005-03 | 053         | 1-512-010005-19 | 105         | 1644            | 086         |
| 1-512-010005-03 | 055         | 1-512-010007-03 | 004         | 1-647-010004117 | 013         |
| 1-512-010005-03 | 102         | 1-512-010007-03 | 055         | 1-647-010004221 | 004         |
| 1-512-010005-05 | 005         | 1-512-010007-03 | 057         | 1-647-010004225 | 013         |
| 1-512-010005-05 | 017         | 1-512-010007-05 | 102         | 1-647-010004255 | 114         |
| 1-512-010005-05 | 023         | 1-512-010007-06 | 102         | 1-647-010004259 | 079         |
| 1-512-010005-05 | 025         | 1-512-010007-09 | 035         | 1-647-010004259 | 091         |
| 1-512-010005-05 | 060         | 1-512-010007-09 | 037         | 1-654-010024079 | 089         |
| 1-512-010005-05 | 063         | 1-512-010007-09 | 114         | 1-654-010024079 | 091         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| 1-654-010047-04 | 039         | 1-654-010051-08 | 067         | 1-654-010061-13 | 037         |
| 1-654-010047-06 | 055         | 1-654-010051-08 | 071         | 1-654-010065-17 | 099         |
| 1-654-010047-06 | 057         | 1-654-010051-08 | 073         | 1-654-010065-17 | 105         |
| 1-654-010047-06 | 060         | 1-654-010051-09 | 045         | 1-654-010070-13 | 013         |
| 1-654-010047-06 | 063         | 1-654-010051-09 | 047         | 1-654-010100015 | 102         |
| 1-654-010047-06 | 067         | 1-654-010055-01 | 009         | 1655            | 086         |
| 1-654-010047-06 | 071         | 1-654-010055-01 | 102         | 1-656-010003051 | 004         |
| 1-654-010047-06 | 127         | 1-654-010055-01 | 113         | 1-656-010003051 | 041         |
| 1-654-010047-06 | 129         | 1-654-010055-01 | 119         | 1-656-010003051 | 055         |
| 1-654-010047-07 | 111         | 1-654-010055-02 | 079         | 1-656-010003051 | 057         |
| 1-654-010047-10 | 045         | 1-654-010055-02 | 089         | 1-656-010003051 | 105         |
| 1-654-010047-10 | 047         | 1-654-010055-02 | 121         | 167-0022        | 013         |
| 1-654-010049-03 | 077         | 1-654-010055-03 | 004         | 1-796-010003-01 | 073         |
| 1-654-010049-05 | 041         | 1-654-010055-03 | 007         | 1-796-010003-01 | 111         |
| 1-654-010049-06 | 041         | 1-654-010055-03 | 013         | 1-796-010004-02 | 131         |
| 1-654-010049-06 | 053         | 1-654-010055-03 | 079         | 179933          | 077         |
| 1-654-010049-06 | 055         | 1-654-010055-03 | 102         | 18002           | 082         |
| 1-654-010050-07 | 102         | 1-654-010055-03 | 107         | 18002           | 085         |
| 1-654-010051-05 | 004         | 1-654-010055-03 | 113         | 18003           | 081         |
| 1-654-010051-05 | 005         | 1-654-010055-03 | 114         | 18003           | 085         |
| 1-654-010051-05 | 017         | 1-654-010055-03 | 115         | 18009           | 081         |
| 1-654-010051-05 | 023         | 1-654-010055-03 | 117         | 18009           | 084         |
| 1-654-010051-05 | 035         | 1-654-010055-04 | 079         | 18015           | 081         |
| 1-654-010051-05 | 037         | 1-654-010055-04 | 087         | 18016           | 081         |
| 1-654-010051-05 | 102         | 1-654-010055-04 | 107         | 18019           | 081         |
| 1-654-010051-05 | 105         | 1-654-010055-05 | 009         | 18020           | 081         |
| 1-654-010051-05 | 117         | 1-654-010055-05 | 011         | 18022           | 084         |
| 1-654-010051-05 | 121         | 1-654-010055-05 | 013         | 18024           | 081         |
| 1-654-010051-06 | 007         | 1-654-010055-05 | 017         | 18026           | 081         |
| 1-654-010051-06 | 017         | 1-654-010055-05 | 118         | 18027           | 081         |
| 1-654-010051-06 | 023         | 1-654-010055-07 | 013         | 18028           | 081         |
| 1-654-010051-06 | 063         | 1-654-010055-10 | 011         | 18029           | 081         |
| 1-654-010051-06 | 079         | 1-654-010055-13 | 113         | 18030           | 081         |
| 1-654-010051-06 | 102         | 1-654-010055-15 | 113         | 18032           | 081         |
| 1-654-010051-06 | 107         | 1-654-010055-16 | 079         | 18033           | 084         |
| 1-654-010051-06 | 113         | 1-654-010055-17 | 079         | 18034           | 084         |
| 1-654-010051-07 | 009         | 1-654-010055-17 | 089         | 18035           | 084         |
| 1-654-010051-07 | 127         | 1-654-010055-17 | 091         | 18039           | 081         |
| 1-654-010051-07 | 129         | 1-654-010059-05 | 089         | 18044           | 082         |
| 1-654-010051-08 | 007         | 1-654-010059-05 | 091         | 18047           | 081         |
| 1-654-010051-08 | 025         | 1-654-010061-07 | 089         | 18047           | 084         |
| 1-654-010051-08 | 060         | 1-654-010061-07 | 091         | 18056           | 082         |
| 1-654-010051-08 | 063         | 1-654-010061-13 | 035         | 18078           | 081         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| 18078           | 081         | 1-861-010032-11 | 063         | 1-861-010034-13 | 037         |
| 1-822-010002-5  | 103         | 1-861-010032-11 | 067         | 1-861-010034-13 | 079         |
| 1-833-010001    | 025         | 1-861-010032-11 | 071         | 1-861-010034-13 | 107         |
| 1-833-010001    | 027         | 1-861-010032-11 | 073         | 1-861-010034-13 | 118         |
| 1-833-010001    | 029         | 1-861-010032-11 | 102         | 1-861-010034-13 | 119         |
| 1-833-010001    | 041         | 1-861-010032-11 | 113         | 1-861-010059-21 | 045         |
| 1-833-010001    | 089         | 1-861-010032-11 | 121         | 1-861-010059-21 | 047         |
| 1-833-010001    | 091         | 1-861-010032-11 | 127         | 1865            | 086         |
| 1-833-010001    | 131         | 1-861-010032-11 | 129         | 1-879-010010    | 125         |
| 1-833-010002    | 025         | 1-861-010032-14 | 009         | 19014           | 084         |
| 1-833-010002    | 027         | 1-861-010032-15 | 007         | 19045           | 081         |
| 1-833-010002    | 029         | 1-861-010032-15 | 009         | 19045           | 084         |
| 1-833-010002    | 031         | 1-861-010032-15 | 011         | 1A0290          | 051         |
| 1-833-010002    | 060         | 1-861-010032-15 | 013         | 1A0291          | 051         |
| 1-833-010002    | 063         | 1-861-010032-15 | 017         | 1A0292          | 051         |
| 1-833-010002    | 067         | 1-861-010032-15 | 079         | 1A0294          | 051         |
| 1-833-010002    | 071         | 1-861-010032-15 | 079         | 1A0709          | 051         |
| 1-833-010003    | 060         | 1-861-010032-15 | 089         | 1A0711          | 051         |
| 1-833-010003    | 063         | 1-861-010032-15 | 091         | 1A0744          | 051         |
| 1-833-010003    | 067         | 1-861-010032-15 | 103         | 1A0757          | 051         |
| 1-833-010003    | 071         | 1-861-010032-15 | 113         | 1R0017          | 051         |
| 1-861-010032-03 | 089         | 1-861-010032-15 | 113         | 1V0081          | 051         |
| 1-861-010032-03 | 091         | 1-861-010032-15 | 114         | 1V0208          | 051         |
| 1-861-010032-03 | 102         | 1-861-010032-15 | 115         | 1V1701          | 051         |
| 1-861-010032-03 | 105         | 1-861-010032-15 | 117         | 1V1703          | 051         |
| 1-861-010032-04 | 004         | 1-861-010032-15 | 118         | 1V1725          | 051         |
| 1-861-010032-07 | 055         | 1-861-010032-15 | 119         | 2021-12-8S      | 099         |
| 1-861-010032-07 | 057         | 1-861-010032-19 | 004         | 2021-2-4        | 017         |
| 1-861-010032-07 | 103         | 1-861-010032-19 | 089         | 2021-2-4        | 023         |
| 1-861-010032-07 | 111         | 1-861-010032-19 | 091         | 2021-2-4        | 033         |
| 1-861-010032-07 | 122         | 1-861-010032-21 | 004         | 2024-12-12S     | 099         |
| 1-861-010032-09 | 041         | 1-861-010034-07 | 004         | 2024-12-12S     | 102         |
| 1-861-010032-09 | 053         | 1-861-010034-07 | 055         | 2024-12-12S     | 107         |
| 1-861-010032-09 | 055         | 1-861-010034-07 | 057         | 2024-12-8S      | 099         |
| 1-861-010032-09 | 102         | 1-861-010034-07 | 089         | 2024-12-8S      | 107         |
| 1-861-010032-10 | 079         | 1-861-010034-07 | 091         | 2024-2-4S       | 017         |
| 1-861-010032-10 | 105         | 1-861-010034-07 | 102         | 2024-2-4S       | 023         |
| 1-861-010032-11 | 004         | 1-861-010034-09 | 122         | 2024-2-4S       | 033         |
| 1-861-010032-11 | 007         | 1-861-010034-10 | 077         | 202702-10-8S    | 079         |
| 1-861-010032-11 | 009         | 1-861-010034-11 | 004         | 202702-12-12S   | 045         |
| 1-861-010032-11 | 017         | 1-861-010034-11 | 113         | 202702-12-12S   | 047         |
| 1-861-010032-11 | 023         | 1-861-010034-13 | 009         | 202702-12-12S   | 099         |
| 1-861-010032-11 | 060         | 1-861-010034-13 | 035         | 202702-12-8S    | 099         |

| <b>PART</b>   | <b>PAGE</b> | <b>PART</b>  | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|---------------|-------------|--------------|-------------|-----------------|-------------|
| 202702-8-8S   | 089         | 2175         | 086         | 237-2308-004    | 103         |
| 202702-8-8S   | 091         | 2177         | 086         | 239-3646-5      | 111         |
| 203102-12-12S | 045         | 2180         | 086         | 239-3650-1      | 125         |
| 203102-12-12S | 047         | 2-181-010001 | 005         | 239-4899        | 105         |
| 2033-8-8S     | 045         | 2183         | 086         | 24032           | 081         |
| 2033-8-8S     | 047         | 21925        | 081         | 2480            | 086         |
| 2047-12-12S   | 107         | 21961        | 081         | 2-557-010053    | 116         |
| 2061-8-8S     | 045         | 21965        | 085         | 2-573-010335    | 097         |
| 2061-8-8S     | 047         | 22055        | 084         | 2-720-010002    | 004         |
| 2061-8-8S     | 079         | 2216-12-12S  | 133         | 2-720-010003    | 004         |
| 2062-10-12S   | 102         | 2263         | 086         | 28942           | 084         |
| 2062-10-8S    | 045         | 2265-6       | 086         | 28943           | 084         |
| 2062-10-8S    | 047         | 22695        | 085         | 2A0079-404      | 051         |
| 2062-12-12S   | 045         | 22697        | 085         | 2A0079-406      | 051         |
| 2062-12-12S   | 047         | 22703        | 081         | 2A0283-7214     | 051         |
| 2062-12-8S    | 045         | 22703        | 085         | 2A0354-121      | 051         |
| 2062-12-8S    | 047         | 22704        | 082         | 2A283-7214      | 051         |
| 2062-16-8S    | 107         | 22704        | 085         | 2V0010          | 051         |
| 2062-8-8S     | 089         | 2-272-010109 | 125         | 3/4NIPPLE       | 099         |
| 2062-8-8S     | 091         | 22729        | 085         | 3-007-010042    | 103         |
| 2062-10-8S    | 102         | 22752        | 081         | 3-014-010023    | 102         |
| 2071-8-8S     | 102         | 22775        | 081         | 3-054-010066    | 103         |
| 2081-8-6S     | 060         | 22775        | 084         | 3-054-010101    | 113         |
| 2081-8-6S     | 063         | 23078        | 082         | 3059            | 094         |
| 2081-8-6S     | 067         | 23078        | 085         | 3-120-010461    | 107         |
| 2081-8-6S     | 071         | 23079        | 082         | 3-120-010463    | 105         |
| 2081-8-6S     | 073         | 23081        | 082         | 3126            | 094         |
| 2083-12-8S    | 060         | 23081        | 085         | 3-128-010032    | 125         |
| 2083-12-8S    | 067         | 23083        | 082         | 3-141-010008    | 113         |
| 2083-6-6S     | 029         | 23085        | 082         | 3-141-010121    | 113         |
| 2083-6-6S     | 063         | 2309         | 094         | 3-141-010123    | 113         |
| 2083-8-4S     | 027         | 23142        | 085         | 3-141-010147    | 113         |
| 2083-8-4S     | 029         | 231-4310     | 105         | 3-141-010152    | 113         |
| 2083-8-8S     | 060         | 23144        | 085         | 3-141-010155    | 113         |
| 2083-8-8S     | 063         | 23183        | 085         | 3-153-010024040 | 105         |
| 2083-8-8S     | 067         | 2319         | 093         | 3-155-010017-4  | 079         |
| 2083-8-8S     | 071         | 23245        | 085         | 3-155-010018-6  | 079         |
| 2088-6-6S     | 060         | 23303        | 081         | 3-156-010042    | 103         |
| 2088-6-6S     | 063         | 23310        | 085         | 3159            | 093         |
| 2088-6-6S     | 067         | 23353        | 082         | 3-162-010001    | 102         |
| 2088-6-6S     | 071         | 23353        | 085         | 3-162-010001    | 107         |
| 2089-6-6S     | 073         | 23367        | 084         | 3-174-010038    | 079         |
| 2109-3        | 086         | 23470        | 081         | 3-174-010039036 | 079         |

| <b>PART</b>     | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> | <b>PART</b>      | <b>PAGE</b> |
|-----------------|-------------|-----------------|-------------|------------------|-------------|
| 3-174-010059    | 089         | 3-482-010503    | 107         | 3-780-010002     | 060         |
| 3-174-010059    | 091         | 3-485-010001    | 017         | 3-780-010002     | 063         |
| 3-174-010060036 | 089         | 3-485-010001    | 023         | 3-780-010002     | 067         |
| 3-174-010060036 | 091         | 3-557-010116    | 114         | 3-780-010002     | 071         |
| 3177            | 093         | 3-557-010375    | 013         | 3-780-010002     | 073         |
| 3-182-010034    | 105         | 3-557-010380    | 113         | 3-786-010033     | 099         |
| 3-201-010002    | 055         | 3-561-010001    | 107         | 3-786-010037     | 102         |
| 3-201-010002    | 103         | 3-565-010172    | 102         | 3-786-010043     | 107         |
| 3-220-010004    | 029         | 3-565-010173    | 102         | 3-793-010040     | 087         |
| 3-220-010004    | 063         | 3-573-010191    | 097         | 3-843-010008     | 089         |
| 3-220-010005    | 031         | 3-573-010210    | 097         | 3-843-010008     | 091         |
| 3-220-010005    | 073         | 3-573-010298    | 097         | 3-846-010156     | 099         |
| 3-220-010010    | 102         | 3-573-010299    | 079         | 3-846-010156     | 103         |
| 3-238-010007    | 025         | 3-573-010299    | 089         | 3-846-010159     | 045         |
| 3263            | 093         | 3-573-010299    | 091         | 3-846-010159     | 047         |
| 3-272-010003    | 055         | 3-573-010299    | 097         | 3-846-010159     | 051         |
| 3-272-010003    | 057         | 3-573-010338    | 097         | 3-846-010159     | 089         |
| 3-272-010003    | 124         | 3-573-010377    | 097         | 3-846-010159     | 091         |
| 3-272-010003    | 127         | 3-573-010378010 | 097         | 3-850-010002     | 102         |
| 3-272-010003    | 129         | 3-573-010378012 | 097         | 3-870-010106     | 077         |
| 3-272-010010    | 127         | 3-573-010496    | 097         | 3-870-010107     | 077         |
| 3-272-010010    | 129         | 3-591-010001    | 107         | 3-870-010110     | 077         |
| 3-272-010021    | 102         | 3-591-010001    | 109         | 3-870-010116     | 077         |
| 3-272-010021    | 125         | 3-591-010010    | 102         | 3-873-010122     | 079         |
| 3-272-010157    | 125         | 3-619-010065    | 114         | 3-873-010122     | 081         |
| 3-273-010014    | 103         | 3-619-010066    | 114         | 3-873-010123     | 079         |
| 3303            | 094         | 3632            | 094         | 3-873-010123     | 084         |
| 3-316-010008    | 102         | 3-654-010129-1  | 017         | 3-873-010124     | 079         |
| 3321            | 094         | 3-654-010129-1  | 023         | 3-873-010126-2   | 079         |
| 3-368-010068    | 102         | 3-659-010012    | 077         | 3-873-010129-2   | 079         |
| 3-380-010006    | 103         | 3-681-010056    | 103         | 3-873-010173     | 089         |
| 3-384-010020    | 060         | 3-681-010057    | 103         | 3-873-010173     | 091         |
| 3-395-010001    | 111         | 3-681-010069    | 102         | 3-873-010173     | 093         |
| 3-399-010001    | 107         | 3-711-010025    | 113         | 391-1802-119     | 109         |
| 3-410-010912    | 102         | 3-720-010010    | 079         | 4042             | 093         |
| 3-443-010010    | 004         | 3-720-010010    | 089         | 4Z4306           | 051         |
| 3-481-010006    | 079         | 3-720-010010    | 091         | 5/16-18 X 2 HHCS | 102         |
| 3-481-010006    | 086         | 3-720-010075    | 004         | 516-22PTL        | 079         |
| 3-481-010007    | 079         | 3-755-010080    | 113         | 516-22PTL        | 091         |
| 3-481-010007    | 086         | 3-762-010017    | 007         | 5210             | 004         |
| 3-482-010051    | 102         | 3-765-010015    | 102         | 55B61            | 025         |
| 3-482-010137    | 103         | 3-780-010002    | 027         | 55B61-6          | 025         |
| 3-482-010307    | 004         | 3-780-010002    | 029         | 55B61-7          | 025         |

| <b>PART</b>  | <b>PAGE</b> | <b>PART</b> | <b>PAGE</b> | <b>PART</b>     | <b>PAGE</b> |
|--------------|-------------|-------------|-------------|-----------------|-------------|
| 56D4         | 060         | 900-54-082  | 041         | 9880            | 093         |
| 56D4         | 063         | 900-54-088  | 041         | 9890            | 093         |
| 56D4         | 067         | 900-54-211  | 041         | 9890            | 094         |
| 56D4         | 071         | 900-54-280  | 041         | 9972            | 093         |
| 56D4         | 073         | 905 54 107  | 039         | 9992            | 094         |
| 6-557-010163 | 113         | 905-08-019  | 035         | 9992            | 094         |
| 6828         | 107         | 905-08-238  | 035         | AA 1058         | 109         |
| 73174        | 093         | 905-54-107  | 025         | B7-141-003      | 113         |
| 758-181      | 060         | 905-54-107  | 027         | BA 3026-2       | 109         |
| 758-181      | 063         | 905-54-107  | 029         | BD 1135M-3-17   | 109         |
| 758-181      | 067         | 905-54-107  | 089         | BSL-6-4         | 004         |
| 758-181      | 071         | 905-54-107  | 091         | C3069X12        | 107         |
| 76343        | 094         | 934-00-149  | 035         | CA-1595         | 102         |
| 76344        | 094         | 934-00-149  | 037         | CO-975-74-2000  | 114         |
| 7HCGHT500    | 079         | 934-00-498  | 035         | D-2H16          | 043         |
| 805-2        | 060         | 934-00-498  | 037         | EB 1685-3       | 109         |
| 805-2        | 063         | 934-00-506  | 035         | F-484-____      | 004         |
| 805-2        | 067         | 934-00-506  | 037         | HM212011        | 077         |
| 805-2        | 071         | 936-00-077  | 035         | HM212049        | 077         |
| 805-2        | 073         | 936-00-077  | 037         | HM218210        | 077         |
| 81006        | 081         | 936-00-162  | 035         | HM218248        | 077         |
| 81009        | 081         | 936-00-162  | 037         | K71-135-00      | 043         |
| 81025        | 081         | 941 00 119  | 039         | K71-136-00      | 043         |
| 81077        | 084         | 941 00 466  | 039         | K71-138-00      | 043         |
| 81078        | 084         | 941-00-590  | 035         | LB 1669-1       | 109         |
| 81080        | 084         | 941-00-648  | 035         | M 1391-K        | 109         |
| 81081        | 084         | 941-00-684  | 035         | M110AB-4        | 086         |
| 81082        | 084         | 941-00-685  | 035         | M11OC-1         | 086         |
| 81434        | 093         | 94100687    | 037         | PA-2328-2       | 086         |
| 81454        | 093         | 94100790    | 037         | PMCK-22000      | 049         |
| 81454        | 094         | 941-00-832  | 035         | PTO             | 107         |
| 81530        | 081         | 941-00-832  | 037         | RA 1688-17-64   | 109         |
| 81608        | 094         | 9612        | 093         | RPRB59004X3H    | 122         |
| 81612        | 094         | 9672        | 093         | RRRCF502 X 1.75 | 037         |
| 88005        | 085         | 9672        | 094         | RWD34999        | 017         |
| 900 54 007   | 039         | 9695        | 094         | RWD34999        | 023         |
| 90008186     | 037         | 9695        | 094         | STP-146         | 103         |
| 900-44-162   | 035         | 9704        | 094         | TR545D          | 077         |
| 900-44-162   | 037         | 9844        | 093         | TR573           | 077         |
| 900-44-206   | 041         | 9851        | 093         | UB 3006-242     | 109         |
| 900-54-007   | 027         | 9852        | 093         | W214S-1         | 127         |
| 900-54-007   | 029         | 9853        | 093         | W214S-1         | 129         |
| 900-54-079   | 041         | 9854        | 093         | W-214S-1        | 131         |

| <b>PART</b> | <b>PAGE</b> |
|-------------|-------------|
| X 144-3     | 109         |
| X2-25       | 109         |
| X73-37-16   | 109         |
| XA 1603     | 109         |
| Y 1032      | 109         |

