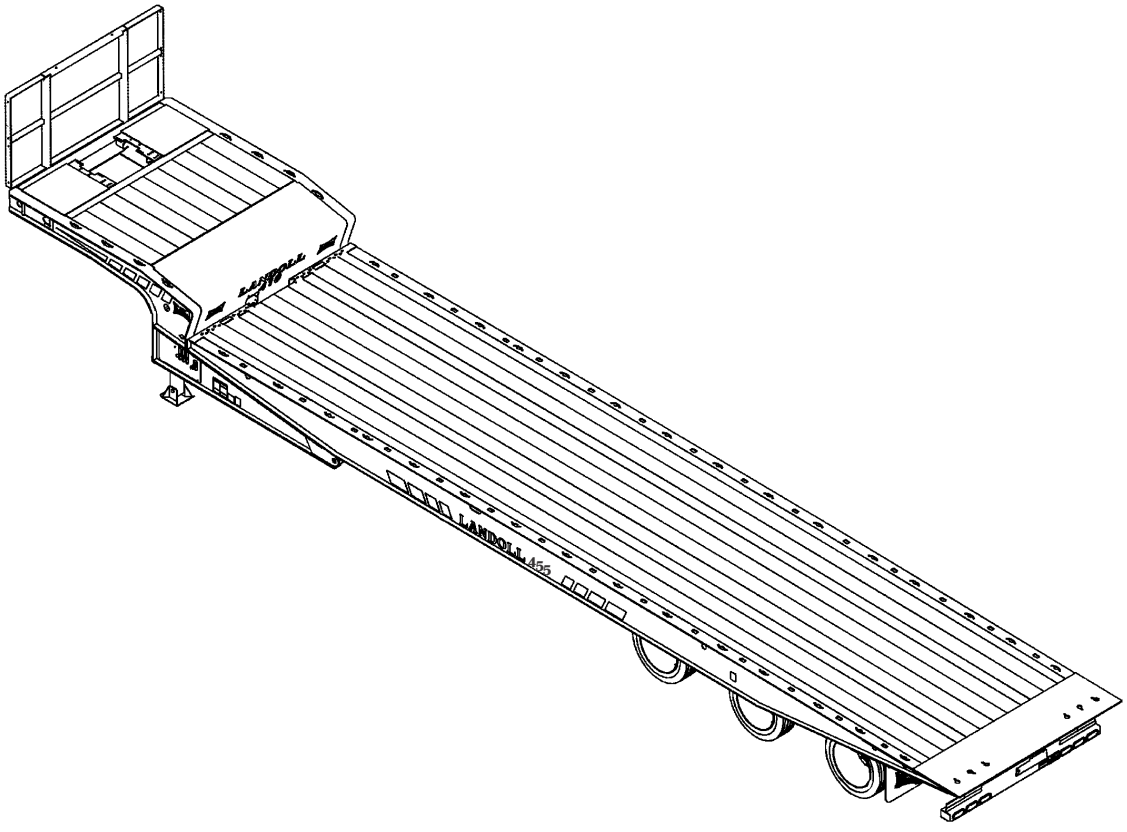
Model 425B / 440 / 455
Semitrailer
Parts Manual



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

Manuals for the 425B / 440 / 455	
MANUAL NUMBER	**MANUAL NAME**
F-543	Operator's Manual
F-544	Parts Manual

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Instructions for Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

PHONE NO: 1-800-423-4320 OR 1-785-562-5381 **FAX NO: 888-527-3909**
ORDER ONLINE: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model number and serial number, is located on the front of the frame.
See Figure 1-1.

Model 400-Series Semitrailer

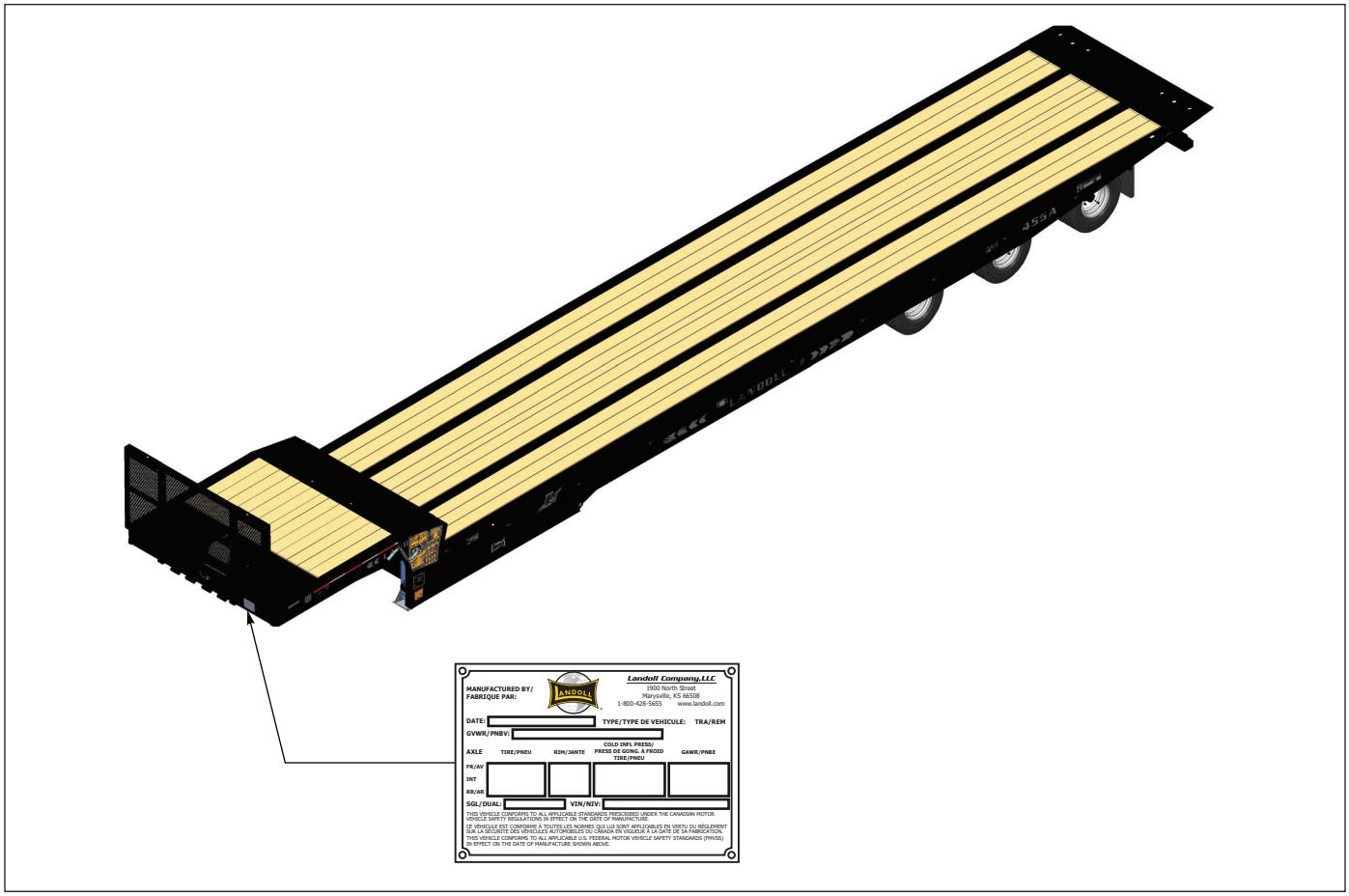


Figure 1-1: Data Plate & Location

Decals

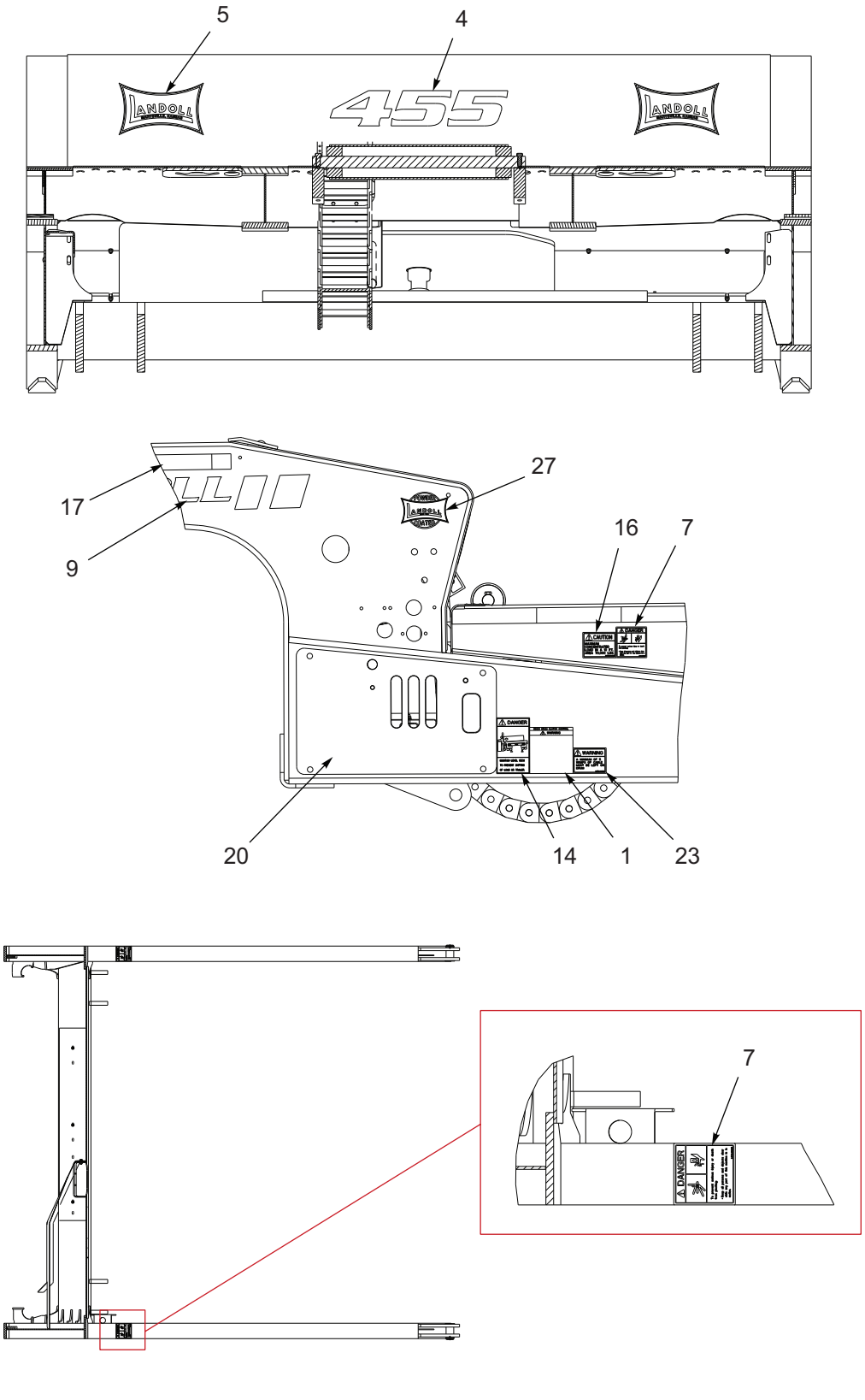


Figure 1-2: Decal Installation (1 of 4)

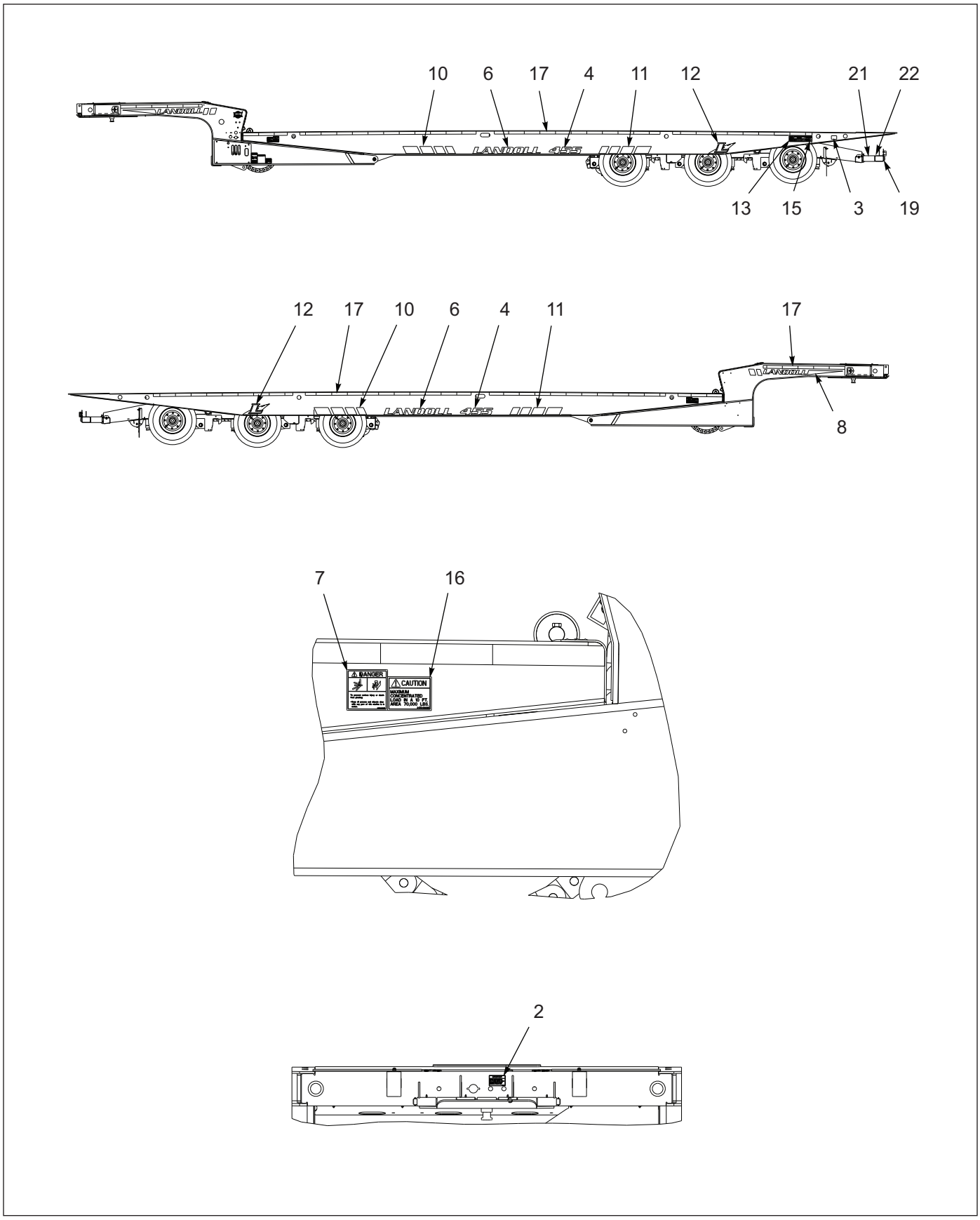
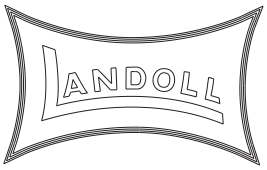
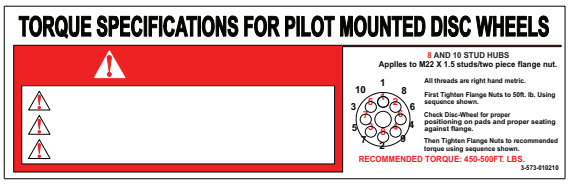


Figure 1-3: Decal Installation (2 of 4)



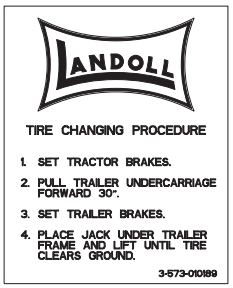
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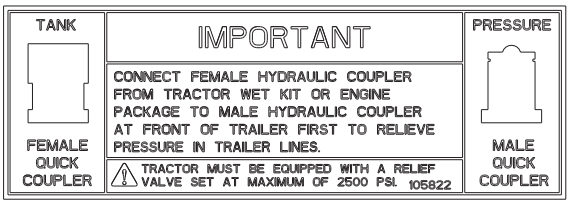
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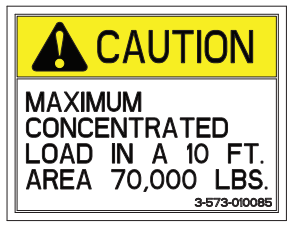
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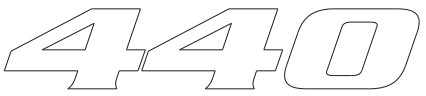
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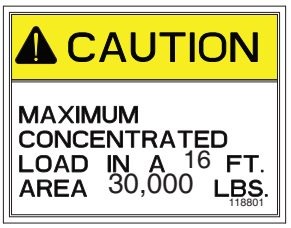
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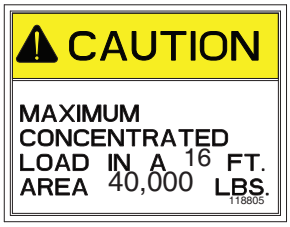
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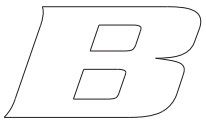
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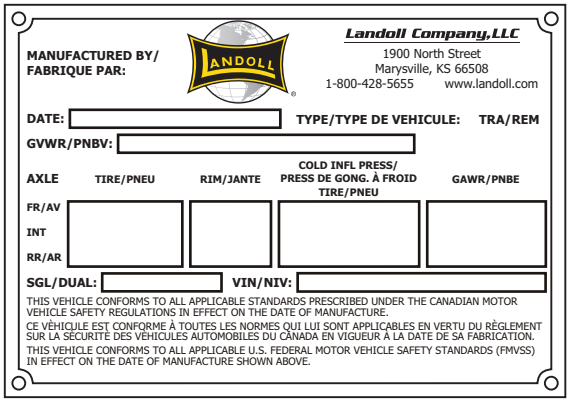
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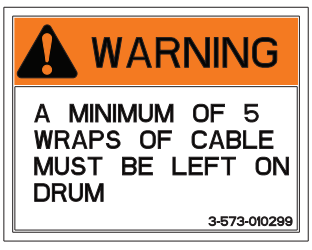
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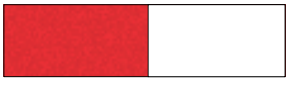
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Figure 1-4: Decal Installation (3 of 4)



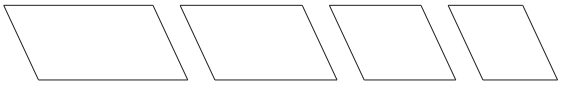
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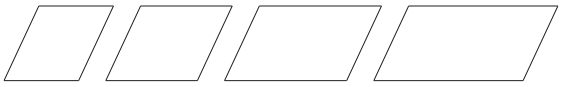
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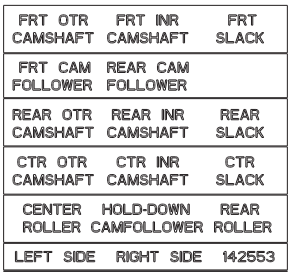
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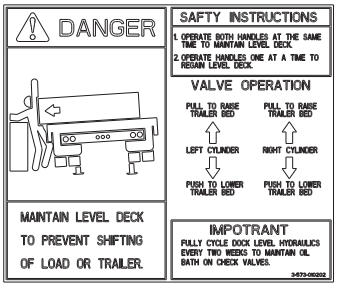
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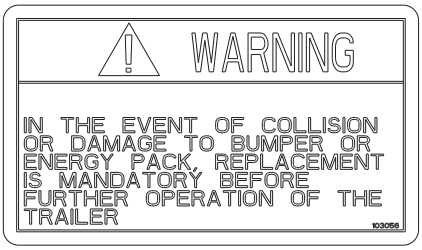
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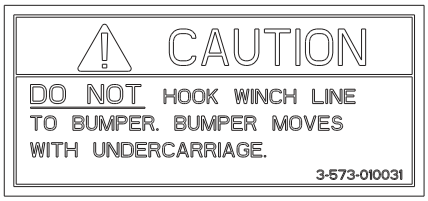
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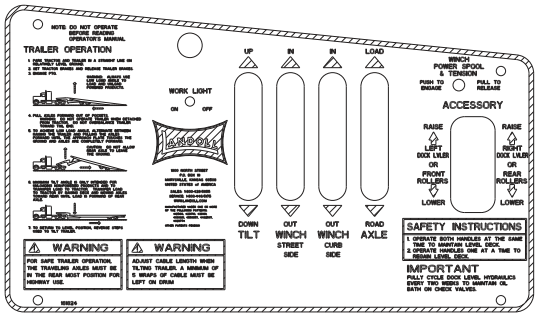
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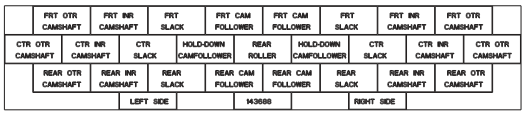
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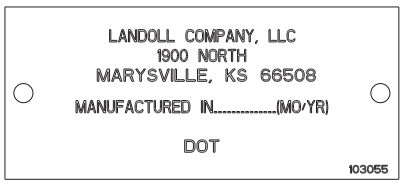
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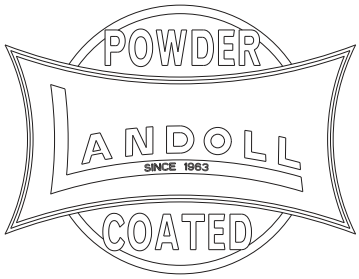
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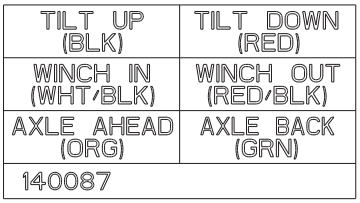
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Figure 1-5: Decal Installation (4 of 4)

Decal Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	156003	DECAL INSTALLATION 455 **(REF ONLY)**	- -
	153769	DECAL INSTALLATION 425 **(REF ONLY)**	- -
	156006	DECAL INSTALLATION 440 **(REF ONLY)**	- -
1	100600	DECAL, WARNING BRADEN WINCH	REF
2	105822	DECAL, HYD COUPLER **(BEFORE 03/01/2022 REQ 1) (AFTER 03/01/2022 NO LONGER USED)**	- -
3	101855	DECAL, ABS	1
4	155278	DECAL, 455 REFLECTIVE	REF
4	153721	DECAL, 425 REFLECTIVE	REF
4	155277	DECAL, 440 REFLECTIVE	REF
5	153754	DECAL, BOW-TIE (WHITE/DK) REFLECTIVE	2
5	153755	DECAL, BOW-TIE (BLACK/LT) REFLECTIVE	2
6	153750	DECAL, LANDOLL 5" REFLECTIVE	2
7	2-573-010335	DECAL, DANGER PINCH	4
8	153748	DECAL, TAPERED STRIPE LEFT REFLECTIVE	1
9	153749	DECAL, TAPERED STRIPE RIGHT REFLECTIVE	1
10	153752	DECAL, CHEVRON LEFT REFLECTIVE	2
11	153753	DECAL, CHEVRON RIGHT REFLECTIVE	2
12	153751	DECAL, HIGHWAY L 7" REFLECTIVE	2
13	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1
14	3-573-010202	PLACARD, DANGER! DOCK LEVELER OPERATION	REF
15	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
16	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	REF
16	118801	DECAL, CAUTION 30K/16FT CONC. LOAD	REF
16	118805	DECAL, CAUTION 40K/16FT CONC. LOAD	REF
16	3-573-010085	DECAL, CAUTION CONC. LOAD 70000 LBS.	REF
17	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	REF
18	153744	DECAL, B 5" REFLECTIVE **(USED W/ 425 MODEL ONLY)**	3
19	103056	DECAL, ENERGY BUMPER WARNING	1
20	139520	PLACARD, CONTROLS	1
20	161824	PLACARD, CONTROLS	1
21	103055	DECAL, ENERGY CERTIFICATION	1
22	3-573-010031	DECAL, BUMPER	1
23	3-573-010299	DECAL, WARNING WINCH CABLE	1
24	142553	DECAL, GREASE TRAILER **(425/440)**	1
25	140087	DECAL, 400 REMOTE	1
26	153798	DECAL, POWDER COATED REFLECTIVE	1
27	143688	DECAL, GREASE TRAILER **(455)**	1
28	155780	TRAILER VIN PLATE	1
29	156010	RIVET, BLIND .156 X 1/2 GRIP	4

Table provided for general use.

NOTES:

Upper Deck

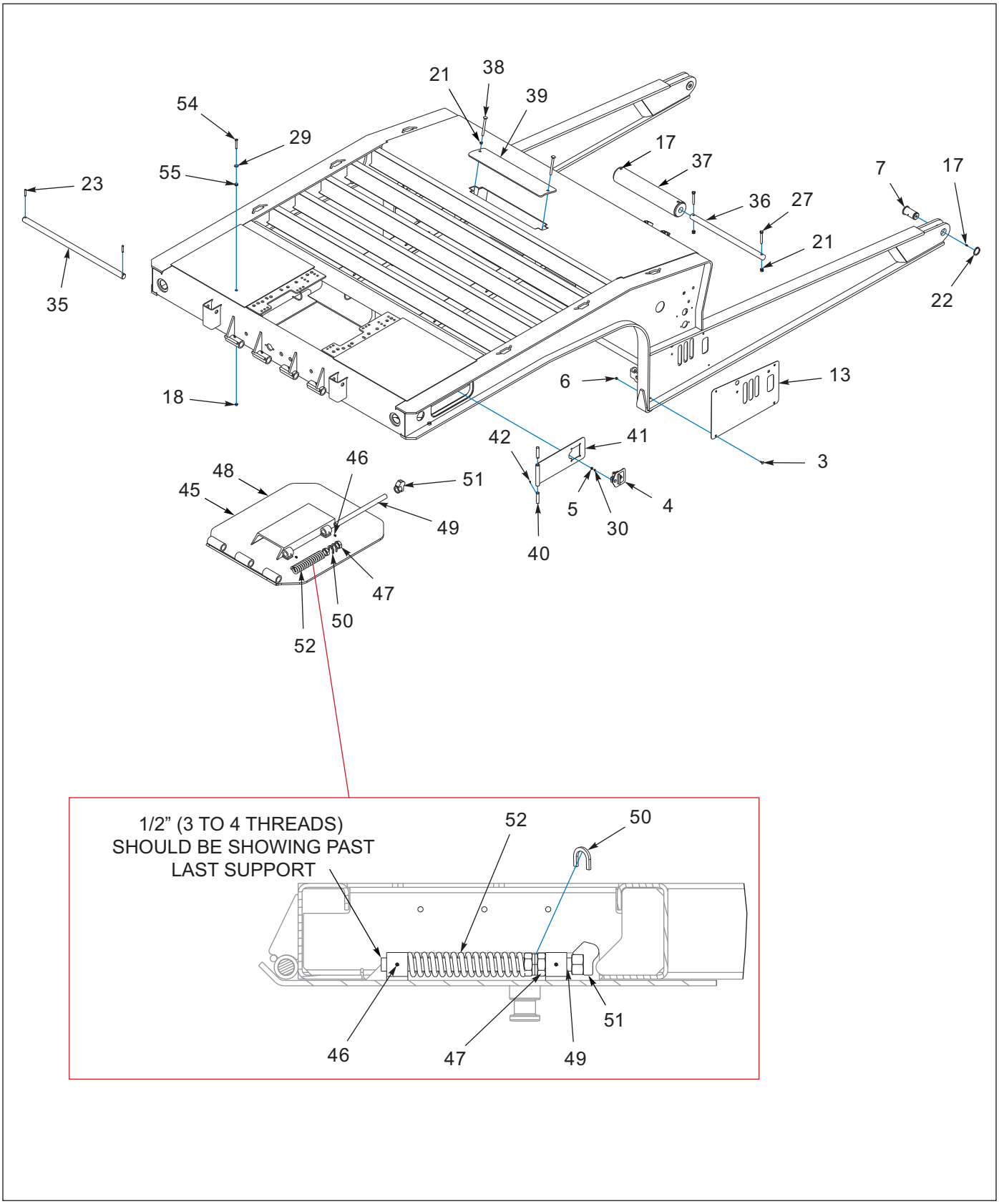


Figure 1-6: Upper Deck Assembly (1 of 2)

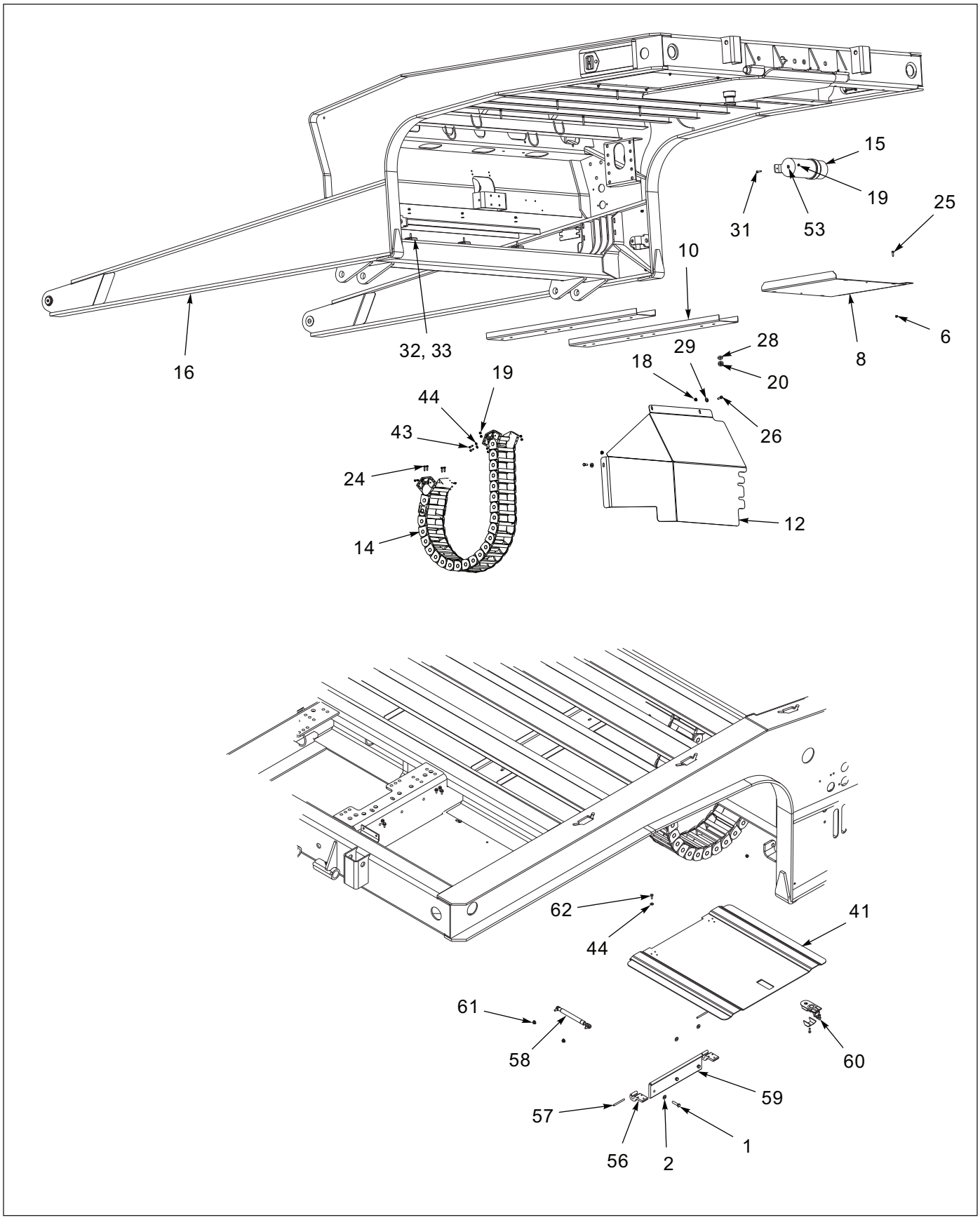


Figure 1-7: Upper Deck Assembly (2 of 2)

Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	- - - - -	G/N FRAME ASSEMBLY	- -
1	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	12
2	1-861-010032-10	WASHER, FLAT 3/8N	12
3	105909	SCREW, RD HEAD SQ NECK 5/16-18 X 3/4	4
4	114814	LATCH FOLDING T LOCKABLE	2
5	115877	NUT, HEAVY HEX 1/4-20	8
6	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	8
7	116943	PIN WELDMENT PIVOT	2
8	117544	PLATE, TOOLBOX BOTTOM	2
8	137963	PLATE, TOOLBOX BOTTOM **(455-120)**	2
8	164115	PLATE, TOOLBOX BOTTOM **(455-108)**	2
10	117565	COVER, HOSE LOWER	3
12	121125	SHIELD, HYDRAULIC CONTROLS	1
13	139520	PLACARD, CONTROL PANEL **(SEE PAGE 1-5)**	- -
13	161824	PLACARD, CONTROL PANEL **(SEE PAGE 1-5)**	- -
14	122380	E-CHAIN G/N FRAME	1
14	135778	E-CHAIN INDIVIDUAL LINK	1
14	135779	E-CHAIN MOUNTING BRACKET	1
15	150076	MANUAL, TUBE 4-1/4”	1
16	- - - - -	GOOSENECK WELDMENT	1
17	1-298-010001-1	ZERK FITTING 1/4	4
18	1-510-010001	NUT, FLANGE LOCK 3/8-16	7
19	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	11
20	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	21
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
22	1-630-010021-02	RING, RETAINING 2 HD	2
23	1-647-010004255	PIN, SPRING SLOTTED 3/8 X 2	2
24	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
25	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	8
26	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
27	1-654-010055-11	SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5	2
28	1-861-010032-08	WASHER, FLAT 5/16N	9
29	1-861-010032-11	WASHER, FLAT 3/8W	7
30	1-861-010034-09	WASHER, SPLIT LOCK 1/4	8
31	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	3
32	2-181-010001	CLAMP	3
33	103817	CLAMP, HOSE	4
34	3-201-010002	CONDUIT, PLASTIC FLEX 3/8 **(NOT SHOWN)**	- -
35	3-557-010469	HINGE PIN, FIFTH WHEEL	1
36	3-642-010134	ROD ROLLER **(27-11/16 INCH, SINGLE WINCH APPLICATION)**	1
36	161810	ROD ROLLER **(21-3/4 INCH, DUAL WINCH APPLICATION)**	2
37	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK **(24 INCH, SINGLE WINCH APPLICATION)**	1
37	161809	ROLLER WELDMENT, CABLE-UPPER DECK (**BEFORE 1/19/2015**) **(18-3/4 INCH, 4 INCH BUSHING, DUAL WINCH APPLICATION)**	2
37	187787	ROLLER WELDMENT, HDPU, 18-3/4 **(AFTER 01/19/2015) (18-3/4 INCH, 3-3/4 INCH BUSHING, DUAL WINCH APPLICATION)**	2
38	100939	SCREW, RD HEAD SQ NECK 1/2-13 X 5-1/2	2
39	131196	PLATE, WINCH CABLE WEAR U/D	1

Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
39	161808	PLATE, WINCH CABLE WEAR U/D	1
40	135181	BUSHING, NYLATRON	4
41	136352	DOOR WELDMENT, TOOLBOX	2
41	240517	GALV OF 136352 (DOOR)	2
41	140851	DOOR WLDMT,TOOLBOX 410HD RMV	2
41	148776	GALVANIZING OF 140851(DOOR)	2
42	1-654-010147-06	SCREW, RD HEAD SELF TAPPING #6-20 X 3/4	8
43	108610	SCREW, BUTTON HEAD 1/4-20 X 1	4
44	1-861-010032-06	WASHER, FLAT 1/4N	4
45	141609	HITCH PLATE ASSEMBLY **(INCLUDES ITEMS 46-52)**	1
46	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
47	100823	NUT, HEX JAM 1-1/4-7 GRB	2
48	116822	HITCH PLATE 410 **(21")**	- -
48	131105	HITCH,PLATE 18KP 400 SERIES **(18")**	- -
49	117556	LATCH ROD	1
50	117562	SHIM, HITCH	2
51	118889	CAM, FIFTH WHEEL LATCH **(NOT SHOWN)**	1
52	2-720-010002	SPRING CLAMP	1
53	1-861-010032-07	WASHER, FLAT 1/4	3
54	119146	SCREW, BUTTON HEAD CAP 3/8-16 X 2-3/4	4
55	805-2	BUSHING, STEP	4
56	108545	HINGE, DOOR FRAME SIDE	8
57	108601	PIN, DOOR HINGE	8
58	110435	CONSOLE LIFT, GAS SPRING	4
59	116856	HINGE, BASE TOOLBOX LID	4
60	118853	LATCH COMPRESSION SOUTHCO **(OBSOLETE - ORDER 245222)** **(LOCKING, INCLUDES KEY, CH751)**	4
60	246222	LATCH, SLAM **(REPLACED 118853)** **(LOCKING, INCLUDES KEY, 252677)**	4
61	1-510-010004-03	NUT, FLANGE HEAD SPIRALOCK 5/16-18	8
62	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	24

Hydraulic, Electric, Air

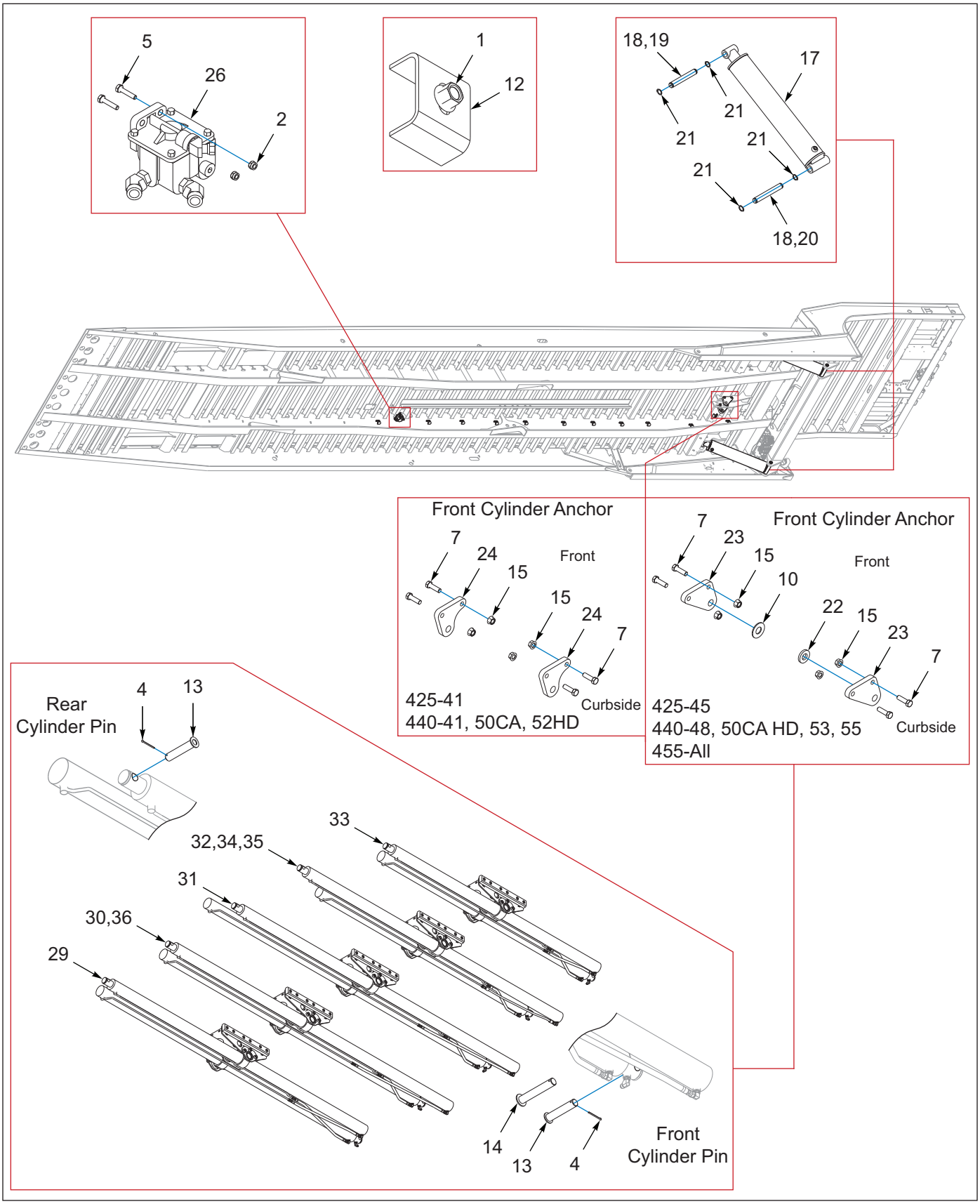


Figure 1-8: Hydraulic/Electric/Air General Assembly (1 of 2)

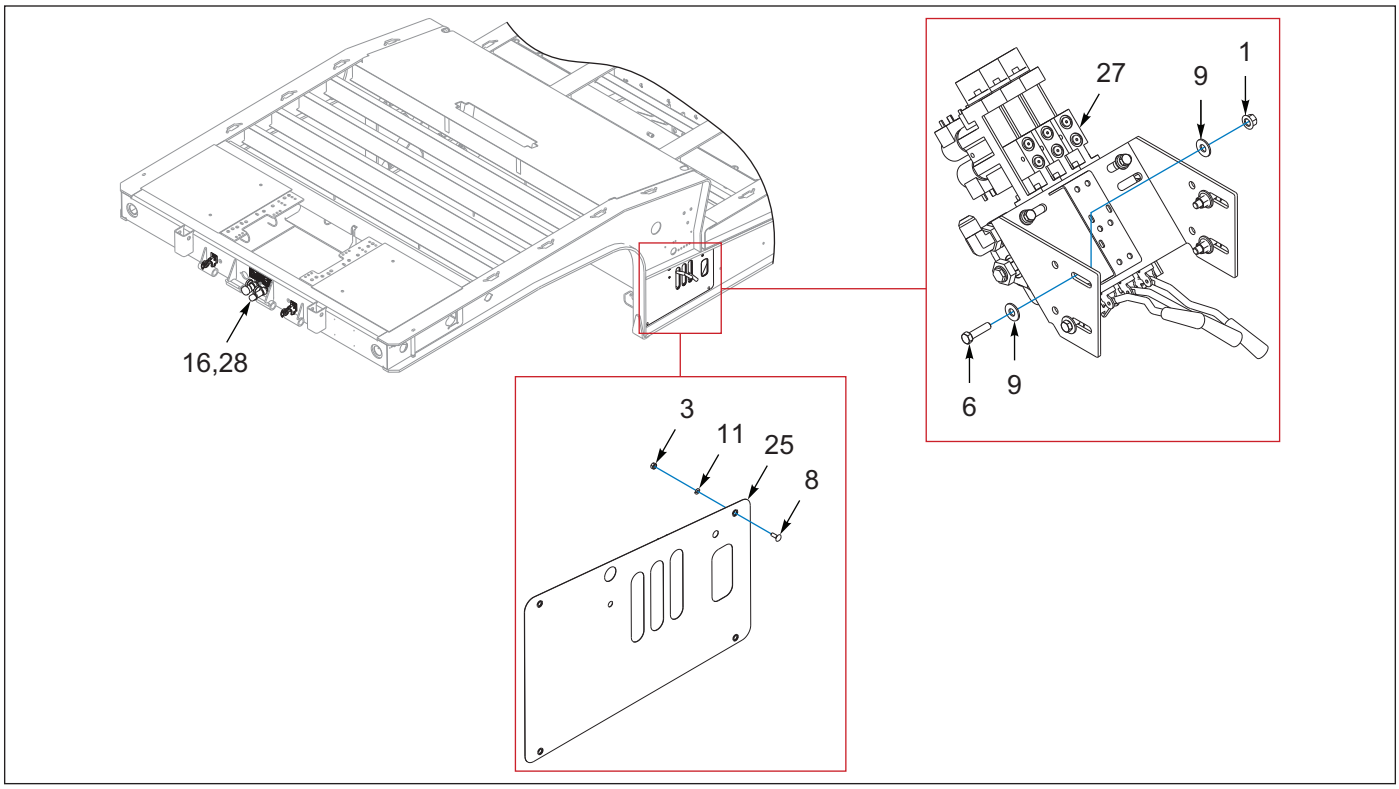


Figure 1-9: Hydraulic/Electric/Air General Assembly (2 of 2)

Hydraulic/Electric/Air General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	143214	HYD ELECT AIR 425-41 RMT **(425)**	- -
	151824	HYD ELECT AIR 440-52HD RMT **(440)**	- -
	143208	HYD ELECT AIR 410-48/50CA RMT **(455)**	- -
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G **(425-41, REQ 12 EACH) (425-45, REQ 13 EACH)** **(440-41, REQ 12) (440-48, 50CA, 52, REQ 14) (440-53, 55, REQ 16)** **(440-50CA HD, REQ 13)** **(455-48, 48CA, 50CA, 50HD, 50CA HD, REQ 14)** **(455-50, 52, 55, REQ 16) (455-53, 52HD, 55HD, REQ 17)**	- -
2	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
3	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	4
4	1-557-010362-54	PIN, COTTER 3/16X2-1/4	2
5	1-654-010027-7	SCREW HX CP 1/4-20UNCX1-1/4	2
6	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
7	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	4
8	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	4
9	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	8
10	1-861-010032-29	WASHER, FLAT 1-1/4 W ZP/CD	1
11	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
12	2-181-010001	HOSE CLAMP **(425-41, REQ 8) (425-45, REQ 9)** **(440-102-41, REQ 8)** **(440-102-48, 50CA, 52HD, 55, 440-108-48, 120-53 REQ 10)** **(440-102-53, 55, 440-120-53 REQ 12) (440-102-50CA HD, REQ 9)** **(455-102-48CA, 50CA, 50CA HD, 50HD)** **(455-108-48, 455-120-48, REQ 10)** **(455-102-50, 102-52HD, 55HD, 108-52HD, REQ 12)** **(455-102-53, 108-50, 53, 120-50, 52HD, 53, 55HD, REQ 13)**	- -
13	3-557-010031	PIN CYL UNDERCARRIAGE WLDMT **(425, REQ 2 EACH)** **(440, REQ 2 EACH)** **(440HD, 455, REQ 1 EACH)**	- -
14	3-557-010033	PIN CYL BUTT END **(440HD, 455)**	1
15	103841	NUT,FLG,LNK,SERRATED 3/4-10UNC	4
16	105822	DECAL, HYD COUPLER **(BEFORE 03/01/2022 REQ 1) (AFTER 03/01/2022 NO LONGER USED)**	1
17	117400	CYLINDER 4-1/2X30 **(425) (SEE PAGE 1-32)**	2
17	3-242-010189	CYLINDER,6"X41",30" STROKE **(440-455) (SEE PAGE 1-33)**	2
18	120452	PIN, TILT CYL 425 **(425)**	4
19	3-557-010470-01	PIN 1-1/2X10 ZP **(440, 455 - TOP)**	2
20	3-557-010470-02	PIN 1-1/2X10-13/16 ZP **(440, 455 - BOTTOM)**	2
21	120454	RING,RETAINING 1.25 HD **(425)**	8
21	1-630-010021-01	RING, 1.5 RETAINING HD **(440, 455)**	8

Hydraulic/Electric/Air General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
22	123150	WASHER CYLINDER PIN 410	1
23	127422	ANCHOR CYLINDER ADJ BOLT-ON **(425-45) (440-48, 50CA HD, 53, 55) (455 ALL MODELS)**	2
24	127691	ANCHOR CYL ADJ BOLT-ON 435CA **(425-41) (440-41, 50CA, 52HD)**	2
25	139520	PLACARD CONTROL PANEL 400	1
26	141607	VALVE ASSY AIR BOOSTER **(SEE PAGE 1-50)**	1
27	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	1
28	171320	CONNECTORS AIR/HYD (FLOW CTRL) **(SEE PAGE 1-18)**	1
29	144673	CYL ASSY U/C 435-48 **(SEE PAGE 1-25) (440-48) (455-50, 52HD, 53, 55)**	1
30	144674	CYL ASSY U/C 435-50CA **(SEE PAGE 1-25) (440-50CA, 52HD)**	1
31	144675	CYL ASSY U/C 435-53 **(SEE PAGE 1-25) (440-53, 55)**	1
32	144676	CYL ASSY U/C 410-48/50CA **(SEE PAGE 1-25) (425-45) (455-48, 50CA, 50HD)**	1
33	144677	CYL ASSY U/C 425-41 **(SEE PAGE 1-25) (425, 440-41) (455-50 CA, 50HD)**	1
34	154434	CYL ASSY U/C 435-50 CA HD **(SEE PAGE 1-25) (440-50CA HD)**	1
35	170447	CYL ASSY 410-48/50CA ARCTIC **(SEE PAGE 1-25) (455-50-ARCTIC)**	1
36	170448	CYL ASSY 435-48 ARCTIC **(SEE PAGE 1-25) (455-53-ARCTIC)**	1

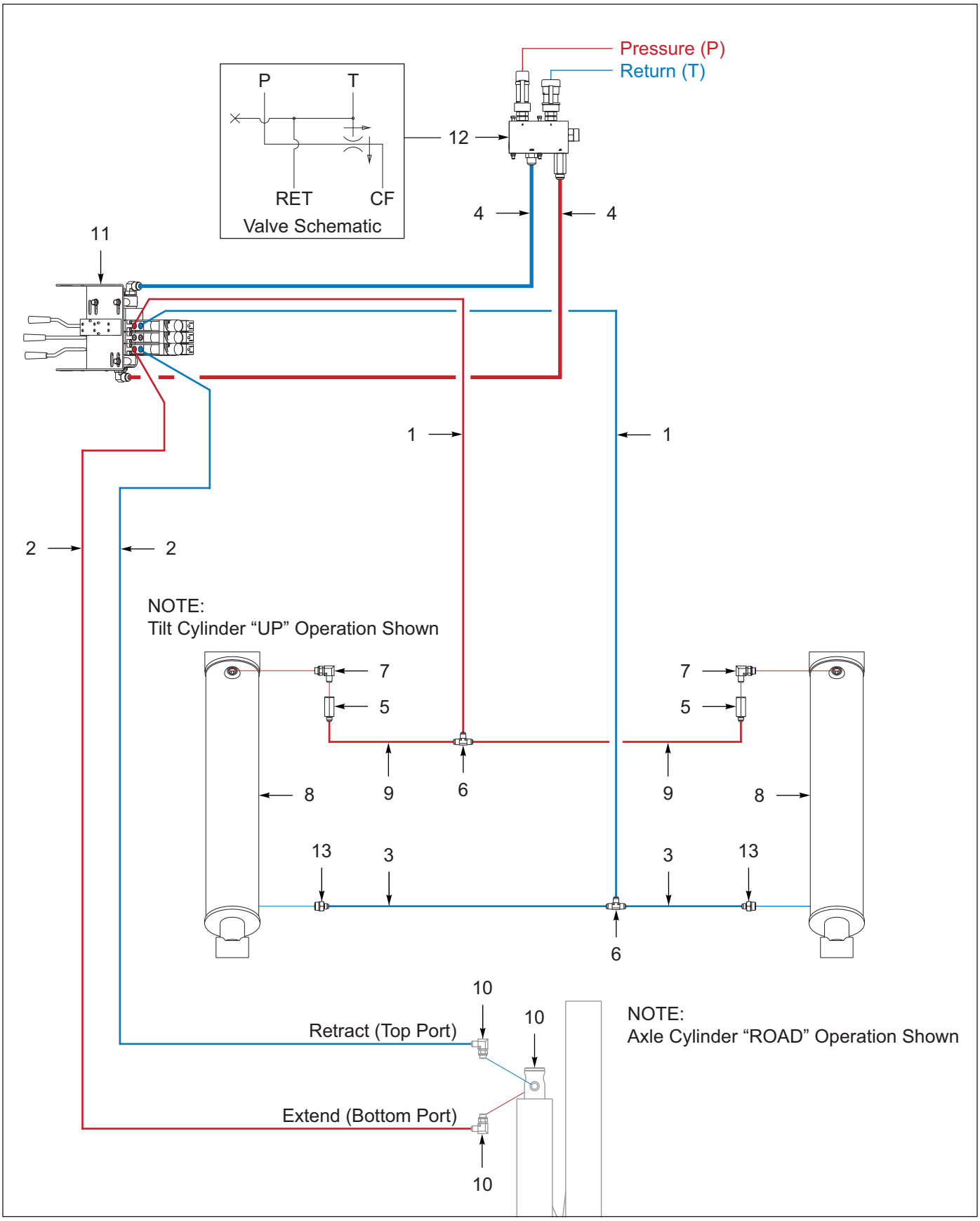


Figure 1-10: Hydraulic System

Hydraulic System

ITEM	PART NO.	DESCRIPTION	QTY.
	143214	HYD ELECT AIR 425-41 RMT **(425)**	- -
	151824	HYD ELECT AIR 440-52HD RMT **(440)**	- -
	143208	HYD ELECT AIR 410-48/50CA RMT **(455)**	- -
1	1-397-010301064	HOSE ASSY,1/2X64,SAE 37 STR **(425) (440-102) (455-102)**	2
1	1-397-010301070	HOSE ASSY,1/2X70,SAE37,STR-ST **(440-108) (455-108)**	2
1	1-397-010301074	HOSE ASSY,1/2X74, SAE37,STRST **(440-120) (455-120)**	2
2	1-397-010301160	HOSE ASSY, 1/2X160 SAE 37 STR **(425) (440-102) (455-102)**	2
2	1-397-010301164	HOSE ASSY 1/2X164,SAE37,STR **(440-108) (455-108)**	2
2	1-397-010301170	HOSE ASY,1/2X170SAE37,STR-STR **(440-120) (455-120)**	2
3	1-397-010302084	HOSE ASSY,1/2X84,SAE37,STR-90 **(425) (440-102) (455-102)**	2
3	1-397-010302087	HOSE ASSY,1/2X87, SAE37,STR90 **(440-108-48) (455-108)**	2
3	104369	HOSE ASSY 1/2X96,SAE37,STR-90 **(440-120) (455-120)**	2
4	1-397-010305190	HOSE ASSY,3/4X190,SAE37,STR90 **(425) (440-102-STD GN) (440-108-STD GN) (455-102 STD GN) (455-108-STD GN)**	2
4	1-397-010305216	HOSE ASSY,3/4X216,SAE37,STR90 **(440-102-HD GN) (440-102-55) (455-102 HD GN) (455-108-HD GN) (455-120-HD GN)**	2
4	137794	HOSE ASSY 3/4X196 SAE37STR-90 **(440-120-STD GN) (455-120-STD GN)**	2
5	3-846-010155	VALVE RSTR #8JIC 1/16-ONE WAY	2
6	2033-8-8S	ADAPTER, TEE, #8 TUBE	2
7	2062-10-8S	ADAPTER,90, #10 O-RING-TUBE	2
8	117400	CYLINDER 4-1/2X30 **(425) (SEE PAGE 1-32)**	2
8	3-242-010189	CYLINDER,6"X41",30" STROKE **(440-455) (SEE PAGE 1-33)**	2
9	142068	HOSE ASSY 1/2X39,SAE37,STR-90 **(425) (440-102) (455-102)**	2
9	1-397-010302042	HOSE ASSY,1/2X42,SAE37,STR-90 **(440-108) (455-108)**	2
9	1-397-010302050	HOSE ASSY,1/2X50,SAE 37,STR90 **(440-120) (455-120)**	2
10	144673	CYL ASSY U/C 435-48 **(440-48) (455-50, 52HD, 53, 55) (SEE PAGE 1-24)**	1
10	144674	CYL ASSY U/C 435-50CA **(440-50CA, 52HD) (SEE PAGE 1-24)**	1
10	144675	CYL ASSY U/C 435-53 **(440-53, 55) (SEE PAGE 1-24)**	1
10	144676	CYL ASSY U/C 410-48/50CA **(425-45) (455-48, 50CA, 50HD) (SEE PAGE 1-24)**	1
10	144677	CYL ASSY U/C 425-41 **(425, 440-41) (455-50 CA, 50HD) (SEE PAGE 1-24)**	1
10	154434	CYL ASSY U/C 435-50 CA HD **(440-50CA HD) (SEE PAGE 1-24)**	1
11	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	1
12	171320	CONNECTORS AIR/HYD (FLOW CTRL) **(SEE PAGE 1-24)**	1
13	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2

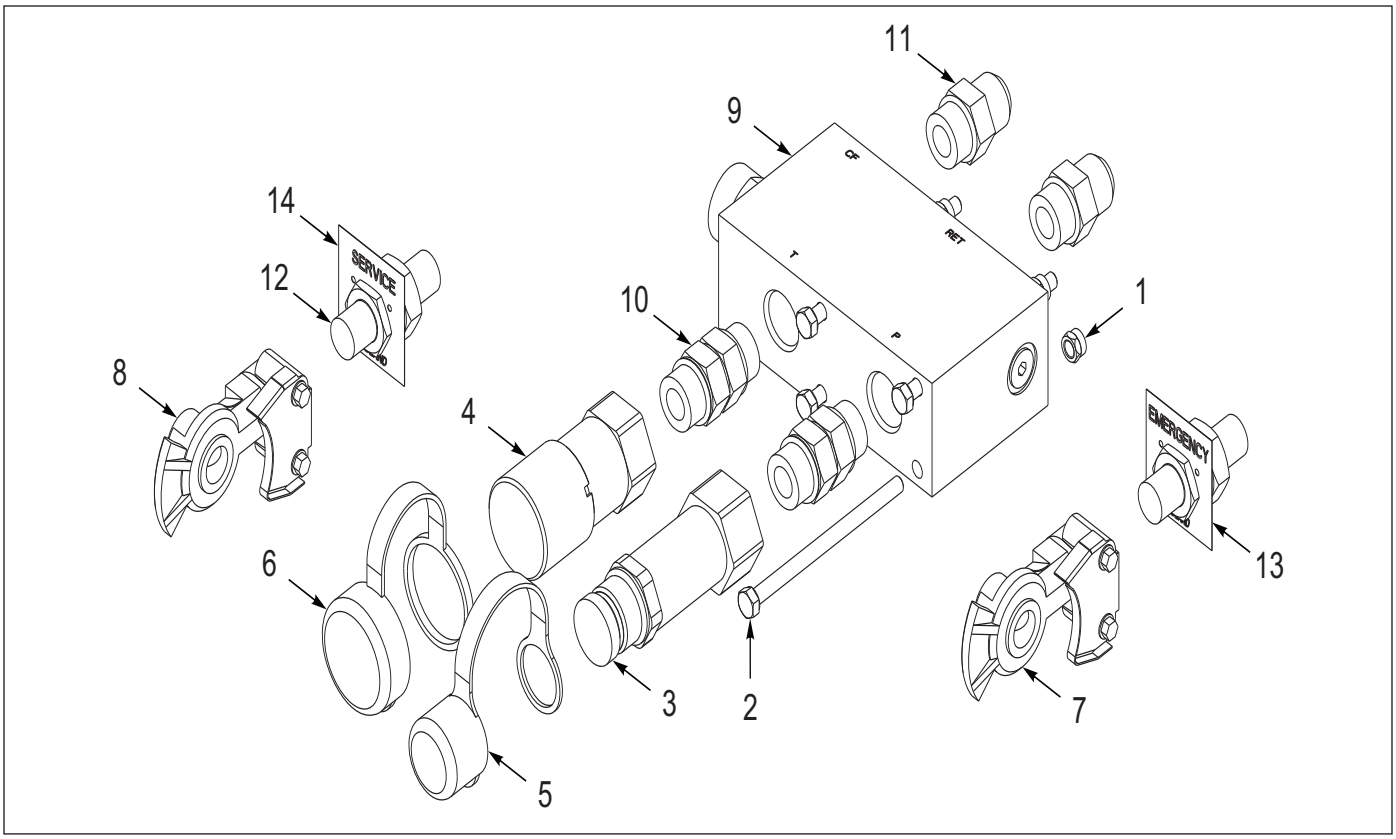


Figure 1-11: Couplers, Front Sub-Assembly, Air / Hydraulic, W/ Control Valve

Couplers, Front Sub-Assembly, Air / Hydraulic, W/ Control Valve

ITEM	PART NO.	DESCRIPTION	QTY.
	171320	CONNECTORS, AIR/HYDRAULIC **(FLOW CONTROL)**	- -
1	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
2	1-654-010049-19	SCREW, HEX HEAD CAP 5/16-18 X 5 GR5	4
3	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022 - SILVER BODY)**	- -
3	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
4	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
4	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
5	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
5	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
6	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
6	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
7	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	1
8	108802	GLAD HAND-BLUE-AIR **(INCLUDES SEAL 209133)**	1
9	158580	VALVE, FLOW CONTROL 14 GPM	1
10	158581	ADAPTER, STR	2
11	202702-12-12S	ADAPTER, STR	2
12	55B61	FRAME UNION	2
13	55B61-6	TAG EMERGENCY LINE	1
14	55B61-7	TAG SERVICE LINE	1

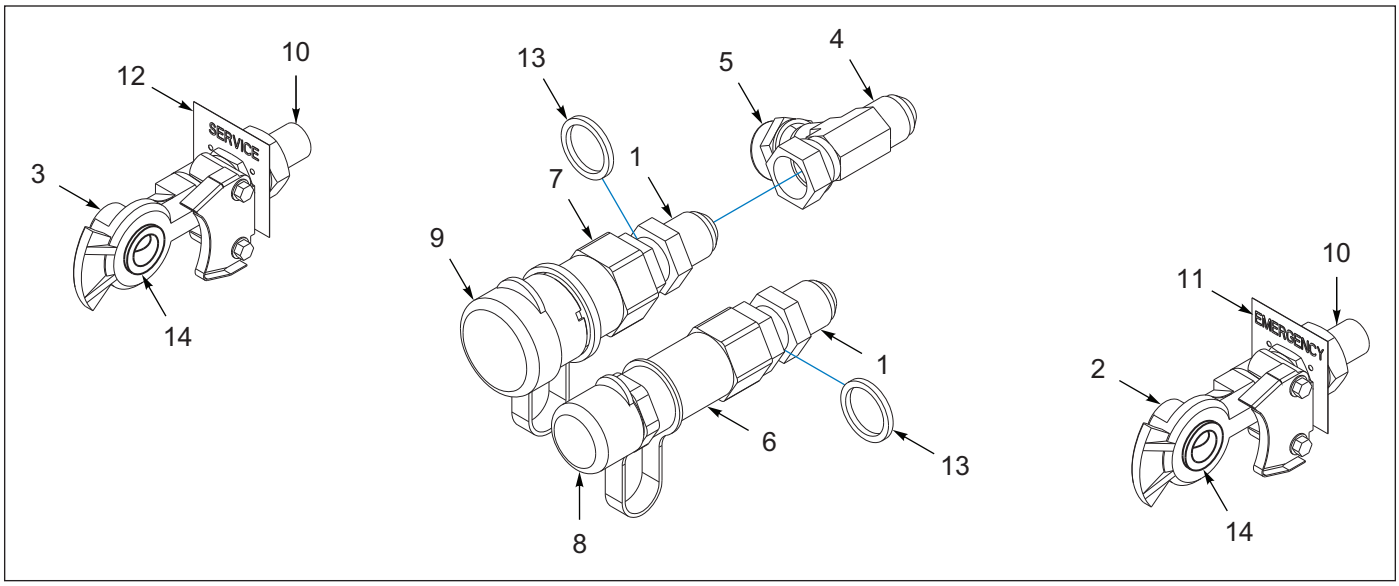


Figure 1-12: Coupler, Front Sub-Assembly, Air / Hydraulic

Couplers, Front Sub-Assembly, Air / Hydraulic

ITEM	PART NO.	DESCRIPTION	QTY.
	143163	CONNECTORS FRONT SUB ASSY **(BEFORE 03/01/2022 - OBSOLETE ORDER 238642)**	- -
	238642	COUPLERS ISO FRON SUB ASSY **(AFTER 03/01/2022 - REPLACES 143163)**	- -
1	105483	ADAPTER BLKHD 12JIC-12 ORING	2
2	108801	GLAD HAND-RED-AIR **(INCLUDES ITEM 14)**	1
3	108802	GLAD HAND-BLUE-AIR **(INCLUDES ITEM 14)**	1
4	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
5	210292-12S	JIC CAP NUT #12	1
6	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20)** (BEFORE 03/01/2022 - SILVER BODY)	- -
6	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (COUPLER KIT - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
7	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
7	239678	COUPLER FL FACE ISO -12 FEMALE **(COUPLER KIT - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
8	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
8	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022) (COUPLER KIT - SEE PAGE 1-20)**	1
9	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
9	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022) (COUPLER KIT - SEE PAGE 1-20)**	1
10	55B61	FRAME UNION	2
11	55B61-6	TAG EMER LINE VELVAC 035025	1
12	55B61-7	TAG SERVICE LINE VELVC 035026	1
13	169365	SPACER HYDR COUPLERS **(BEFORE 02/01/2021) (AFTER HEX RETAINER WELDED TO FRAME)**	2
14	209133	GLAD HAND SEAL **(INCLUDED WITH ITEMS 2 & 3)**	1

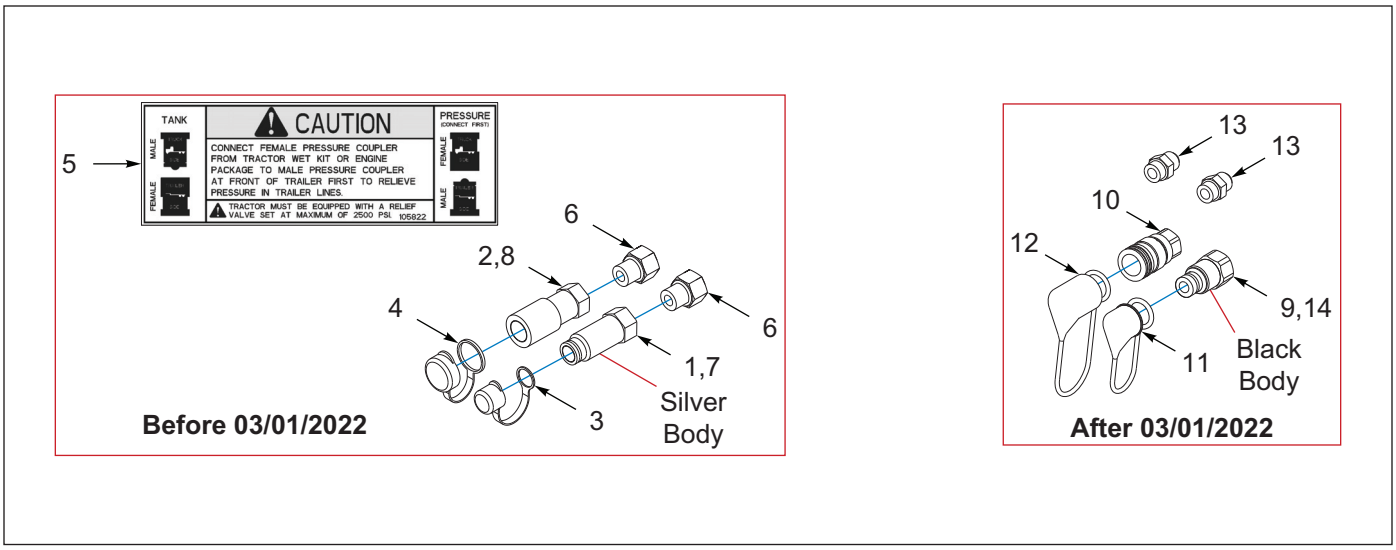


Figure 1-13: Coupler Kit, Hydraulic, Replacement & Repair

Coupler Kit, Hydraulic, Replacement & Repair

ITEM	PART NO.	DESCRIPTION	QTY.
	105902	HYD COUPLER KIT, PARKER **(INCLUDES ITEM 1-6) (BEFORE 03/01/2022) (AFTER 03/01/2022 DISCONTINUED)**	- -
	239705	HYD COUPLER KIT ISO **(INCLUDES ITEM 9-13) (AFTER 03/01/2022 - REPLACES 105902) (REPLACEMENT COUPLERS FOR TRAILER, POWER UNIT, OR TRUCK)**	1
1	105479	COUPLER FLAT FACE MALE NOSE **(REPAIRABLE, SEE ITEM 7) (BEFORE 03/01/2022 -SILVER BODY)**	- -
2	105480	COUPLER FLAT FACE FEMALE BODY **(REPAIRABLE, SEE ITEM 8) (BEFORE 03/01/2022)**	- -
3	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
4	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
5	105822	DECAL, HYD COUPLER **(BEFORE 03/01/2022) (AFTER 03/01/2022 NO LONGER USED)**	1
6	2216-12-12S	ADAPT 3/4-14P/1-1/16 O-RING **(BEFORE 03/01/2022) (AFTER 03/01/2022 NO LONGER USED)**	2
7	111089	REPAIR KIT FOR 105479 **(BEFORE 03/01/2022) (INCLUDES SLIPPER SEAL, O-RING)**	1
8	111090	REPAIR KIT FOR 105480 **(BEFORE 03/01/2022) (INCLUDES VALVE ASSEM, SEALING SLEEVE, BACK-UP RING, O-RING)**	1
9	239677	COUPLER FL FACE ISO -12 MALE **(REPAIRABLE, SEE ITEM 14) (AFTER 03/01/2022- BLACK BODY) (INCLUDED WITH KIT 239705)**	1
10	239678	COUPLER FL FACE ISO -12 FEMALE **(NON-REPAIRABLE) (AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
11	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
12	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
13	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE **(INCLUDED WITH KIT 239705) (USED TO ADAPT ISO COUPLERS TO -12 FEMALE JIC END TRUCK HOSES)**	2
14	238634	KIT O-RING MALE ISO-12 QD **(INCLUDES BACK-UP RING, O-RING) (AFTER 03/01/2022 - NEW MALE KIT)**	1

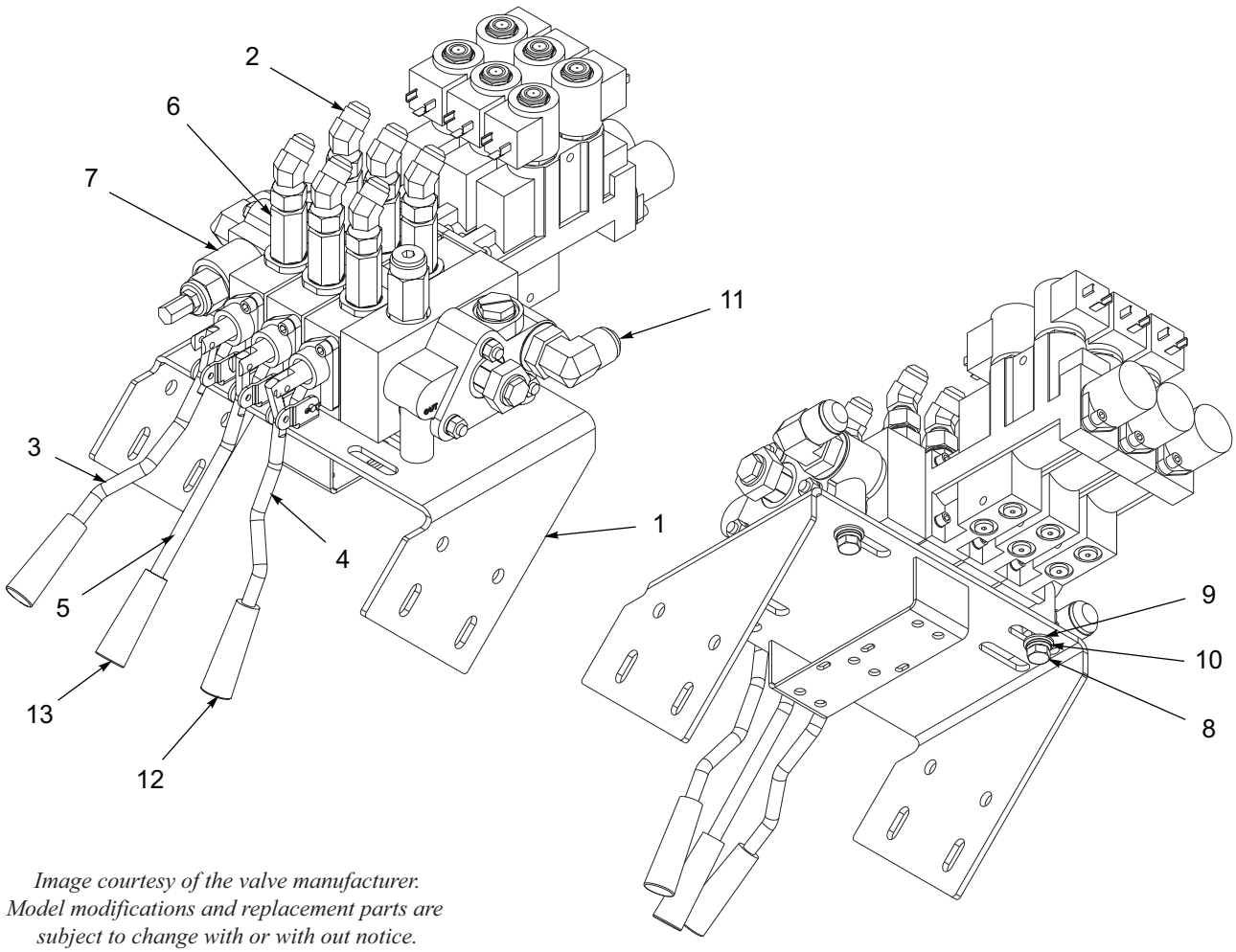


Figure 1-14: Three Spool Valve Assembly

Three Spool Valve Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	148241	VALVE ASSEMBLY, 3 SPOOL	1
1	116837	VALVE MOUNT, CONTROL	1
2	121031	ADAPTER, 45	6
3	136377	VALVE HANDLE, RH FORMED	1
4	136378	VALVE HANDLE, LH FORMED	1
5	139519	VALVE HANDLE, CENTER FORMED	1
6	140893	ADAPTER, STR	6
7	148240	VALVE, 3 STACK 2ND MOTOR SOL **(SEE PAGE 1-22)**	1
8	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
9	1-861-010032-10	WASHER, FLAT 3/8N	3
10	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
11	2062-10-12S	ADAPTER, 90	2
12	3-360-010072	HANDLE, PLASTIC BLACK	2
13	3-360-010090	HANDLE, PLASTIC RED	1

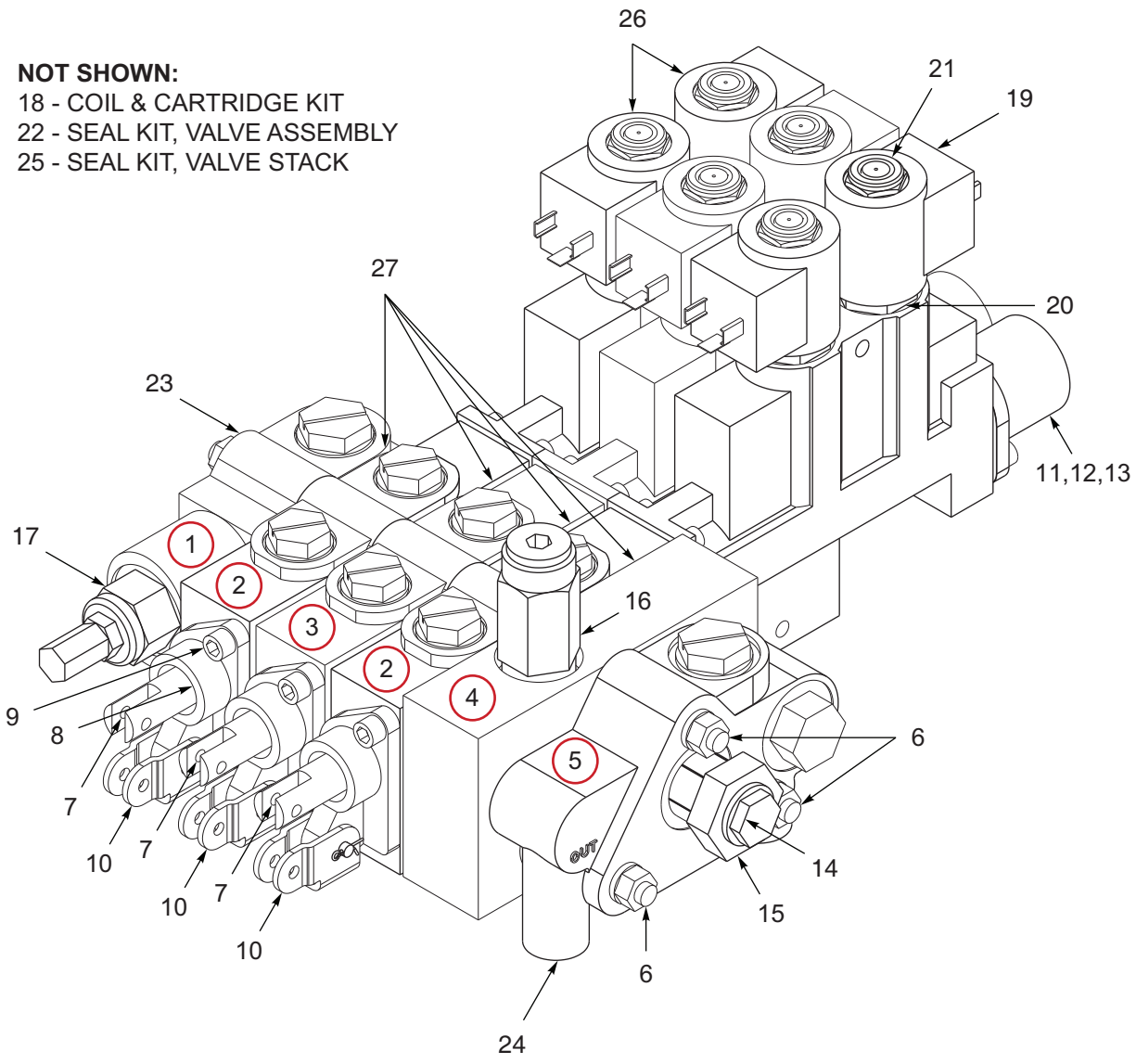


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-15: Three Solenoid Valve

Three Solenoid Valve

ITEM	PART NO.	DESCRIPTION	QTY.
	148240	VALVE 3 STACK 2ND MTR SOL	1
1	149526	INLET SECTION SVA-S328	1
2	149527	VALVE SECTION SVA-S329 **(INCLUDES FRONT / REAR SECTIONS AND ITEMS 18-20)**	2
3	149528	VALVE SECTION SVA-S330 **(INCLUDES FRONT / REAR SECTIONS AND ITEMS 18-20)**	1
4	149529	UTILITY VALVE SECTION SVA-S327	1
5	142483	OUTLET SECTION SVA-S305	1
6	149530	TIEROD KIT	1
7	169843	PIN/CLEVIS KIT SPOOL VALVE **(1 PER HANDLE)**	3
8	671900011	BASE, HANDLE	3
9	120749	SCREW 170003017 PDC	3
10	671400040	CLEVIS ASSEMBLY	3
11	671400033	COVER, SPOOL END	3
12	670500045	SPOOL BACKUP WASHER	3
13	240000208	O-RING	3
14	151823	CARTRIDGE PRINCE 660280068	1
15	138179	CARTRIDGE PWR BYD PRESSSURE	1
16	149030	CARTRIDGE PRESSURE REDUCING	1
17	182089	CARTRIDGE RELIEF 2500PSI	1
18	142486	COIL/CARTRG ASSY HF 660381061 **(2 PER SECTION)** **(INCLUDES ITEMS 19-21)**	6
19	142484	COIL HF PRINCE 671302141 **(2 PER SECTION)**	6
20	142485	CARTRIDGE HF PRINCE 660263007 **(2 PER SECTION)**	6
21	143141	COIL NUT PRINCE #671800021 **(2 PER SECTION)**	6
22	114553	SEAL KIT, PRINCE VALVE **(INCLUDES ITEMS 23-27)** **(FITS 1, 2 & 3 VALVE ASSEMBLIES)**	1
23	660580002	SEAL KIT, INLET,STACK VALVE	1
24	660580003	SEAL KIT,OUTLET,STACK VALVE	1
25	660580004	SEAL KIT VALVE PRINCE STACK	1
26	660580005	KIT O-RING COMPLETE SOLENOID **(1 PER SECTION)**	3
27	660585006	SEAL KIT PILOT BTW SECTIONS **(1 EACH BETWEEN SECTIONS)**	4

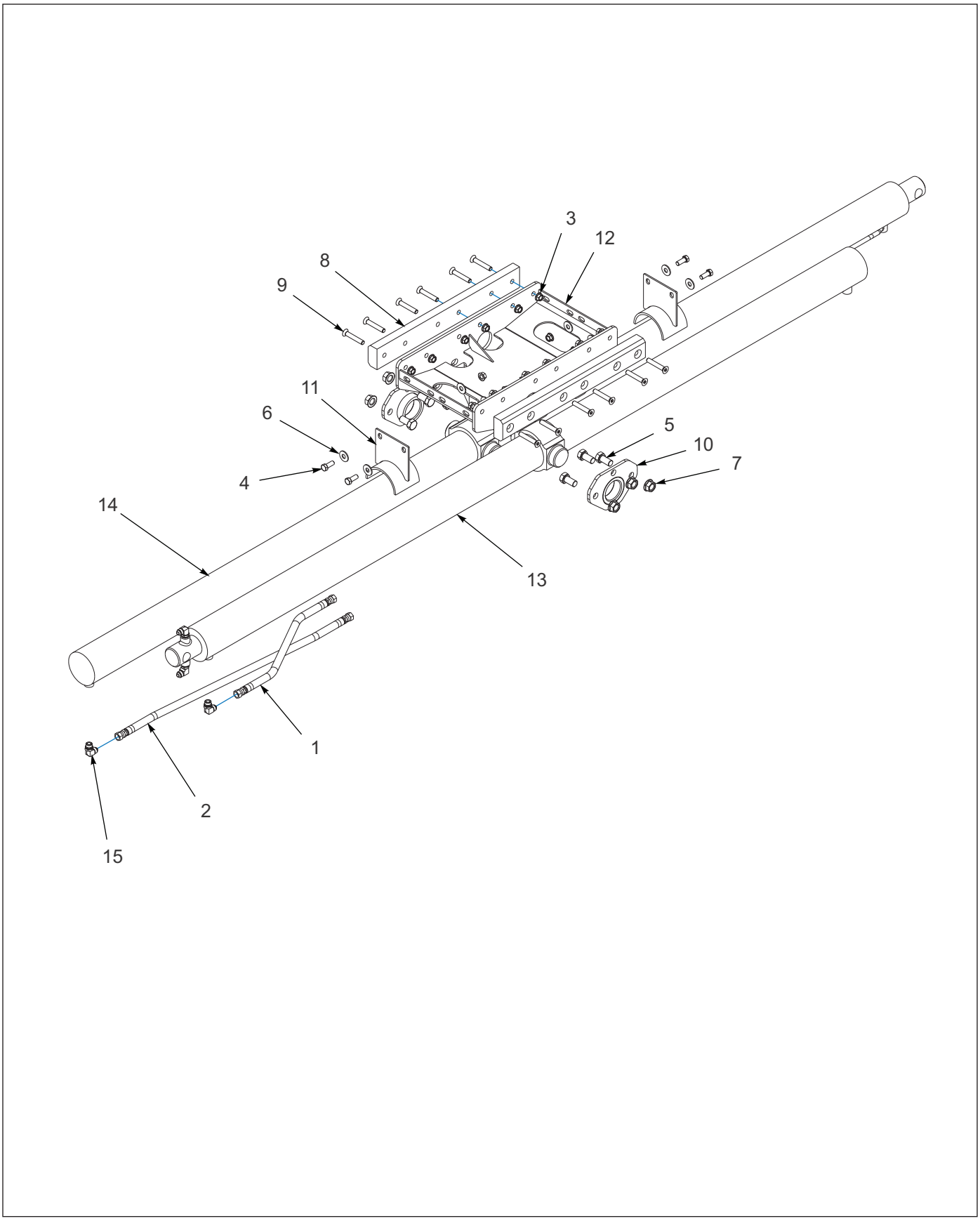


Figure 1-16: Cylinder Assembly, Undercarriage

Cylinder Assembly, Undercarriage

ITEM	PART NO.	DESCRIPTION	QTY.							
	144673	U/C CYL ASSEMBLY **(455-50/53/55HD,440-48)**	*							
	144674	U/C CYL ASSEMBLY **(440-50CA)**		*						
	144675	U/C CYL ASSEMBLY **(440-53)**			*					
	144676	U/C CYL ASSEMBLY **(455-48/50CA, 425-45)**				*				
	144677	U/C CYL ASSEMBLY **(425-41, 440-41)**					*			
	154434	U/C CYL ASSEMBLY **(440-50CA HD)**						*		
	170447	U/C CYL ASSEMBLY **(455-48/50CA ARCTIC)**							*	
	170448	U/C CYL ASSEMBLY **(455-48 ARCTIC)**								*
1	1-397-010301024	HOSE ASSEMBLY 1/2 X 24	- -	1	1	1	1	1	- -	- -
1	111301	HOSE ASSEMBLY 1/2 X 36	1	- -	- -	- -	- -	- -	- -	- -
1	139934	HOSE ASSEMBLY 1/2 X 24 ARCTIC	- -	- -	- -	- -	- -	- -	1	- -
1	170446	HOSE ASSEMBLY 1/2 X 36 ARCTIC	- -	- -	- -	- -	- -	- -	- -	1
2	1-397-010301039	HOSE ASSEMBLY 1/2 X 39	- -	- -	- -	1	- -	- -	- -	- -
2	1-397-010301048	HOSE ASSEMBLY 1/2 X 48	- -	1	1	- -	- -	- -	- -	- -
2	1-397-010301024	HOSE ASSEMBLY 1/2 X 24	- -	- -	- -	- -	1	- -	- -	- -
2	111301	HOSE ASSEMBLY 1/2 X 36	1	- -	- -	- -	- -	1	- -	- -
2	139935	HOSE ASSEMBLY 1/2 X 39 ARCTIC	- -	- -	- -	- -	- -	- -	1	- -
2	170446	HOSE ASSEMBLY 1/2 X 36 ARCTIC	- -	- -	- -	- -	- -	- -	- -	1
3	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	16	16	16	16	16	16	16	16
4	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4	4	4	4	4	4	4	4
5	1-654-010061-03	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR5	6	6	6	6	6	6	6	6
6	1-861-010032-15	WASHER, FLAT 1/2W	8	8	8	8	8	8	8	8
7	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	6	6	6	6	6	6	6	6
8	117386	NYLATRON SLIDE, U/C CYLINDER	2	2	2	2	2	2	2	2
9	118627	SCREW, HEX SOCKET CTSK 1/2-13 X 3	12	12	12	12	12	12	12	12
10	122621	BRACKET WELDMENT, U/C CYLINDER TRUNNION	2	2	2	2	2	2	2	2
11	142050	SADDLE WELDMENT, U/C CYLINDER TRUNNION	2	2	2	2	2	2	2	2
12	142053	MOUNT WELDMENT, CYLINDER TRUNNION	1	1	1	1	1	1	1	1
13	144662	CYLINDER, 4 X 100 PORT ROD PAINTED **(STREETSIDE) (SEE PAGE 1-26)**	- -	- -	- -	1	1	1	1	- -
13	144666	CYLINDER, 4 X 126 PORT ROD PAINTED **(STREETSIDE) (SEE PAGE 1-28)**	1	1	- -	- -	- -	- -	- -	1
13	144670	CYLINDER, 4 X 138 PORT ROD PAINTED **(STREETSIDE) (SEE PAGE 1-30)**	- -	- -	1	- -	- -	- -	- -	- -
14	144664	CYLINDER, 4 X 100 PAINTED **(CURBSIDE) (SEE PAGE 1-27)**	- -	- -	- -	- -	1	- -	- -	- -
14	144668	CYLINDER, 4 X 126 PAINTED **(CURBSIDE) (SEE PAGE 1-29)**	1	- -	- -	1	- -	1	1	1
14	144672	CYLINDER, 4 X 138 PAINTED **(CURBSIDE) (SEE PAGE 1-31)**	- -	1	1	- -	- -	- -	- -	- -
15	2062-8-8S	ADAPTER, 90	4	4	4	4	4	4	4	4

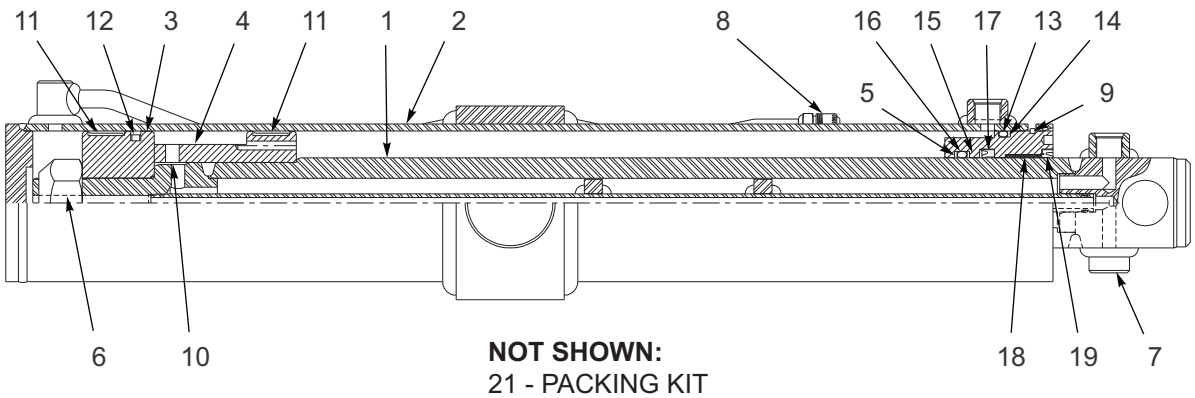
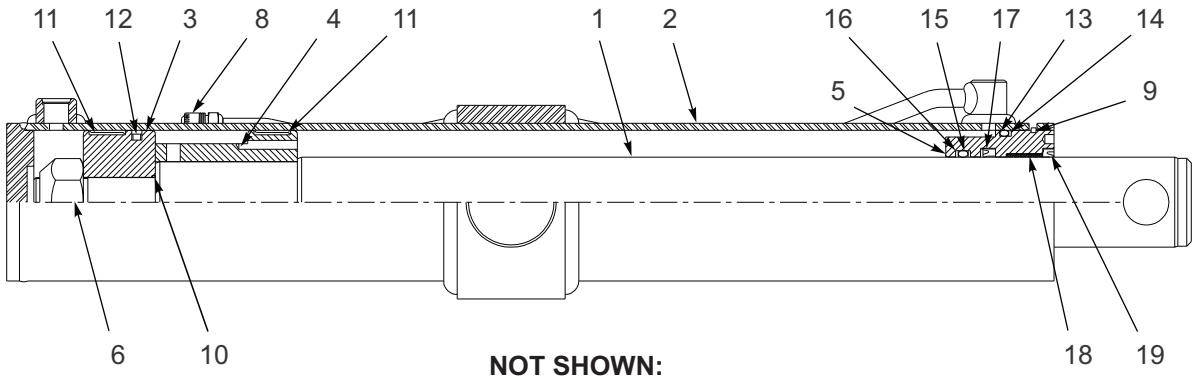


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-17: Cylinder Components, 4 x 100 Ported Rod

Cylinder Components, 4 X 100 Ported Rod

ITEM	PART NO.	DESCRIPTION	QTY.
	144662	CYL 4X100 PORTED ROD PAINTED **(STREETSIDE) (455-48/50CA, 425-41/45, 440-41)**	1
1	146834	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	3
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146836	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1



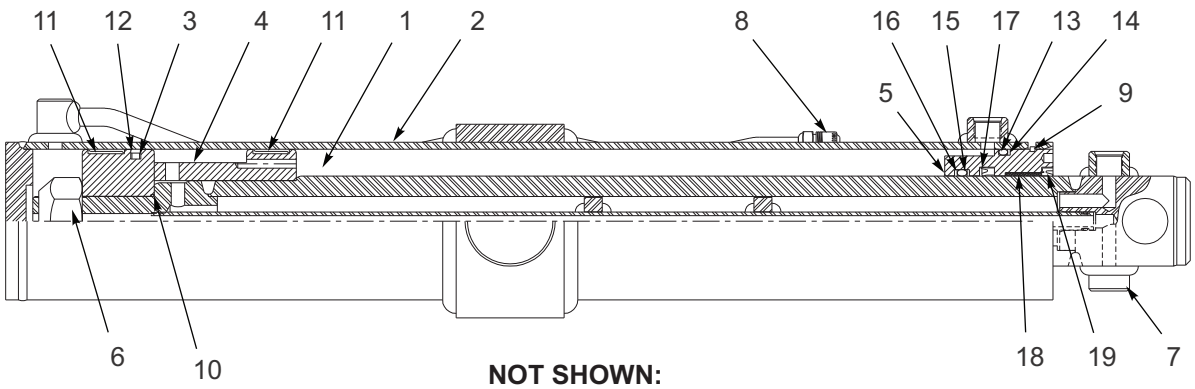
NOT SHOWN:
21 - PACKING KIT

Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-18: Cylinder Components, 4 x 100

Cylinder Components, 4 X 100

ITEM	PART NO.	DESCRIPTION	QTY.
	144664	CYL 4X100 PAINTED **(425-41, 440-41)**	1
1	146837	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	1
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146839	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1



NOT SHOWN:
21 - PACKING KIT

Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-19: Cylinder Components, 4 x 126 Ported Rod

Cylinder Components, 4 X 126 Ported Rod

ITEM	PART NO.	DESCRIPTION	QTY.
	144666	CYL 4X126 PORTED ROD PAINTED **(STREETSIDE) (455-50/53/55HD, 440-48/50CA)**	1
1	146840	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	3
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146842	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1

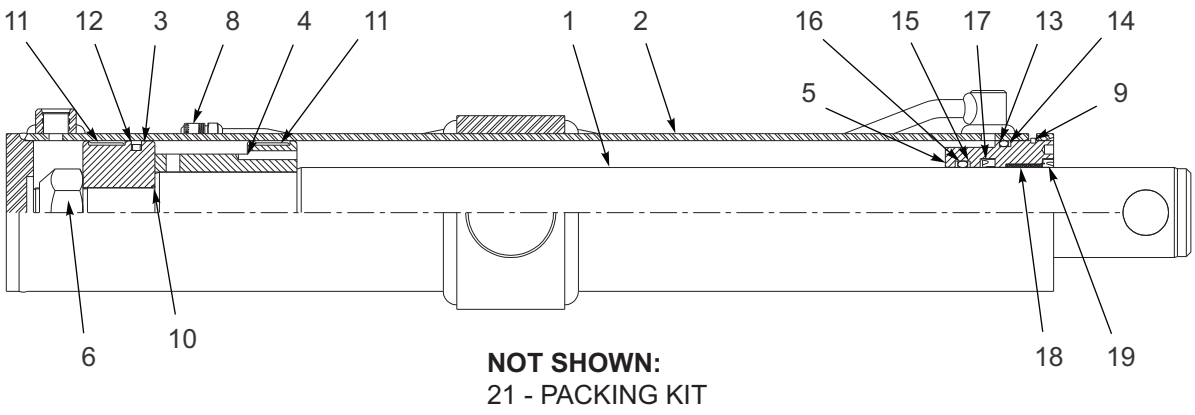
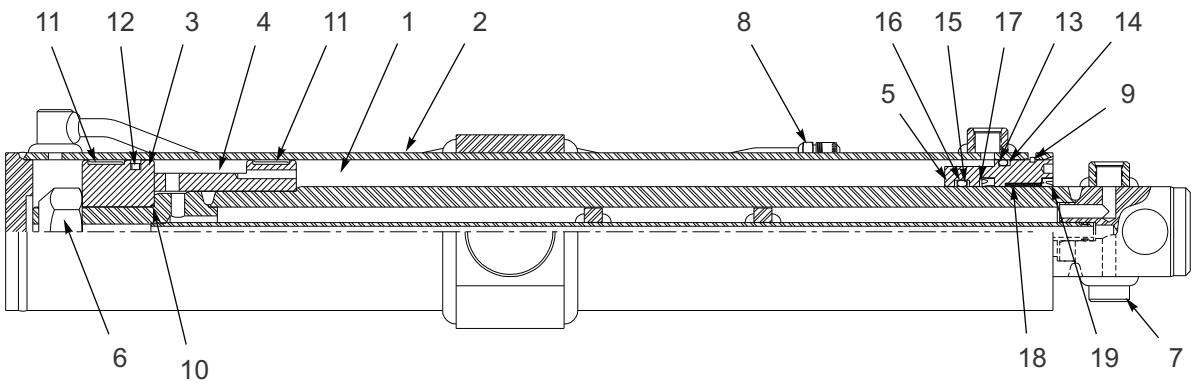


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-20: Cylinder Components, 4 x 126

Cylinder Components, 4 X 126

ITEM	PART NO.	DESCRIPTION	QTY.
	144668	CYL 4X126 PAINTED **(CURBSIDE) (455-50/53/55HD, 455-48/50CA, 425-45, 440-48)**	1
1	146843	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	1
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146845	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1



NOT SHOWN:
21 - PACKING KIT

Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-21: Cylinder Components, 4 x 138 Ported Rod

Cylinder Components, 4 X 138 Ported Rod

ITEM	PART NO.	DESCRIPTION	QTY.
	144670	CYL 4X138 PORTED ROD PAINTED **(STREETSIDE) (440-53)**	1
1	146846	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	3
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146848	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1

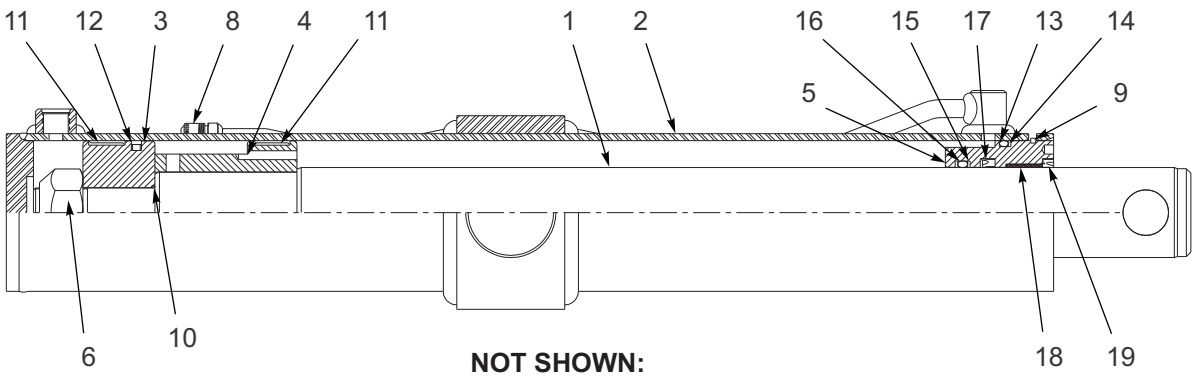
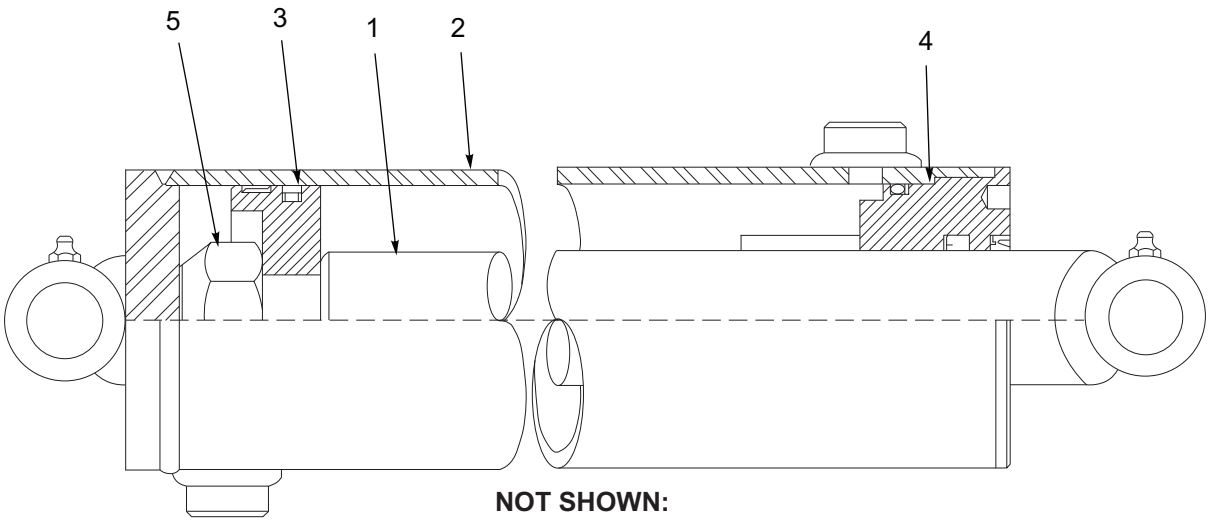


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-22: Cylinder Components, 4 x 138

Cylinder Components, 4 X 138

ITEM	PART NO.	DESCRIPTION	QTY.
	144672	CYL 4X138 PAINTED **(CURBSIDE) (440-50CA/53)**	1
1	146849	PISTON TUBE ASSEMBLY	1
2	- - - - -	BUTT & TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	- - - - -	PISTON	1
5	146854	GLAND	1
6	- - - - -	LOCKNUT	1
7	- - - - -	SHIPPING PLUG	1
8	- - - - -	JIC CAP	1
9	- - - - -	SQ RETAINING RING	1
10	- - - - -	O-RING	1
11	- - - - -	BEARING RING	2
12	- - - - -	TEFLON SEAL ASSEMBLY	1
13	- - - - -	O-RING	1
14	- - - - -	BU-WASHER	1
15	- - - - -	O-RING	1
16	- - - - -	BU-WASHER	2
17	- - - - -	U-CUP	1
18	- - - - -	DX BUSHING	1
19	- - - - -	WIPER	1
20	- - - - -	INSTALLATION RING	1
21	146851	PACKING KIT **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1



NOT SHOWN:
6 - PACKING KIT

Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-23: Cylinder Components, 4-1/2 X 30

Cylinder Components, 4-1/2 X 30

ITEM	PART NO.	DESCRIPTION	QTY.
	117400	CYLINDER 4-1/2X30	1
1	125192	PISTON ROD ASSY FOR 117400	1
2	- - - - -	BUTT AND TUBE ASSEMBLY	1
3	- - - - -	PISTON	1
4	125194	GLAND FOR 117400	1
5	- - - - -	LOCKNUT 1-1/2-12	1
6	125196	PACKING KIT FOR 117400 **(CONTAINS ALL SEALS AND O-RINGS, NOT SHOWN)**	1

NOT SHOWN:
16 - PACKING KIT

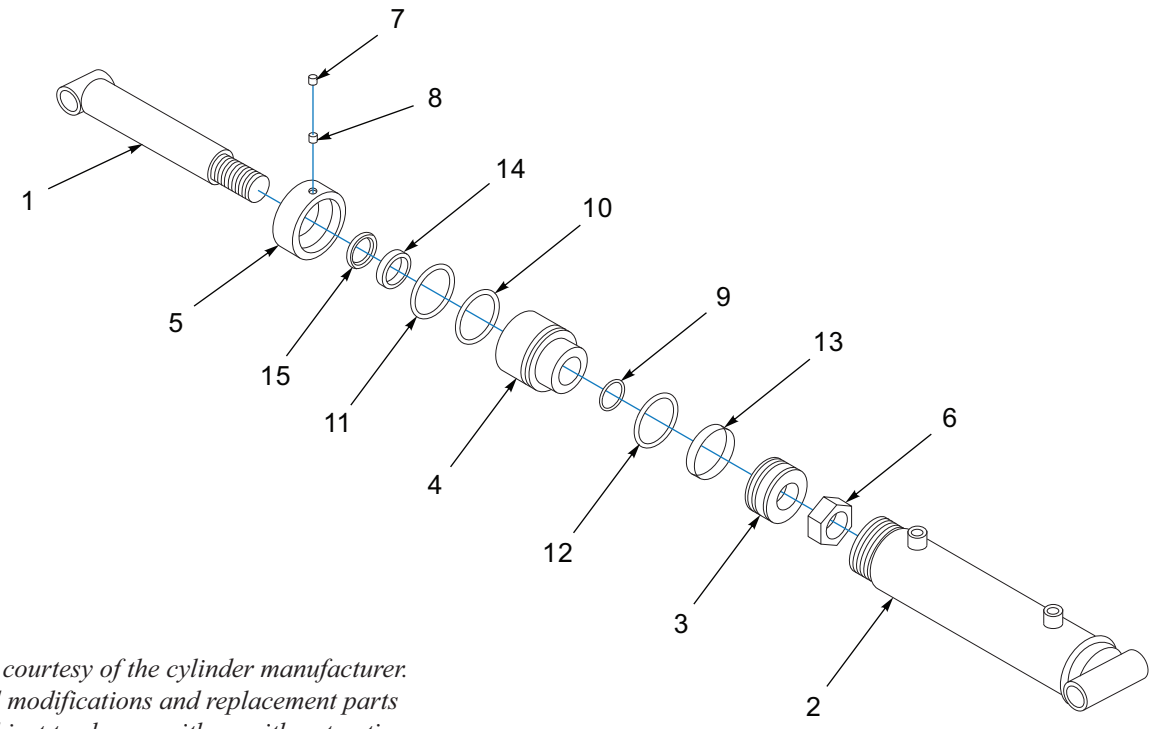


Image courtesy of the cylinder manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-24: Cylinder Components, 6 X 30

Cylinder Components, 6 X 30

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010189	CYLINDER,6"X41",30" STROKE	1
1	140319	PISTON ROD ASSY #021500077	1
2	- - - - -	BUTT AND TUBE ASSEMBLY	1
3	148138	PISTON	1
4	167691	GLAND	1
5	148140	GLAND CUP	1
6	- - - - -	NUT, LOCK	1
7	- - - - -	SET SCREW	1
8	- - - - -	NYLON LOCK	1
9	- - - - -	O-RING	1
10	- - - - -	O-RING	1
11	- - - - -	BU-WASHER	1
12	- - - - -	CROWN SEAL	1
13	- - - - -	BEARING RING	1
14	- - - - -	U-CUP	1
15	- - - - -	WIPER	1
16	PMCK-22000	PACKING KIT CYL HYD 6X41 **(CONTAINS ITEMS 9 - 15)**	1

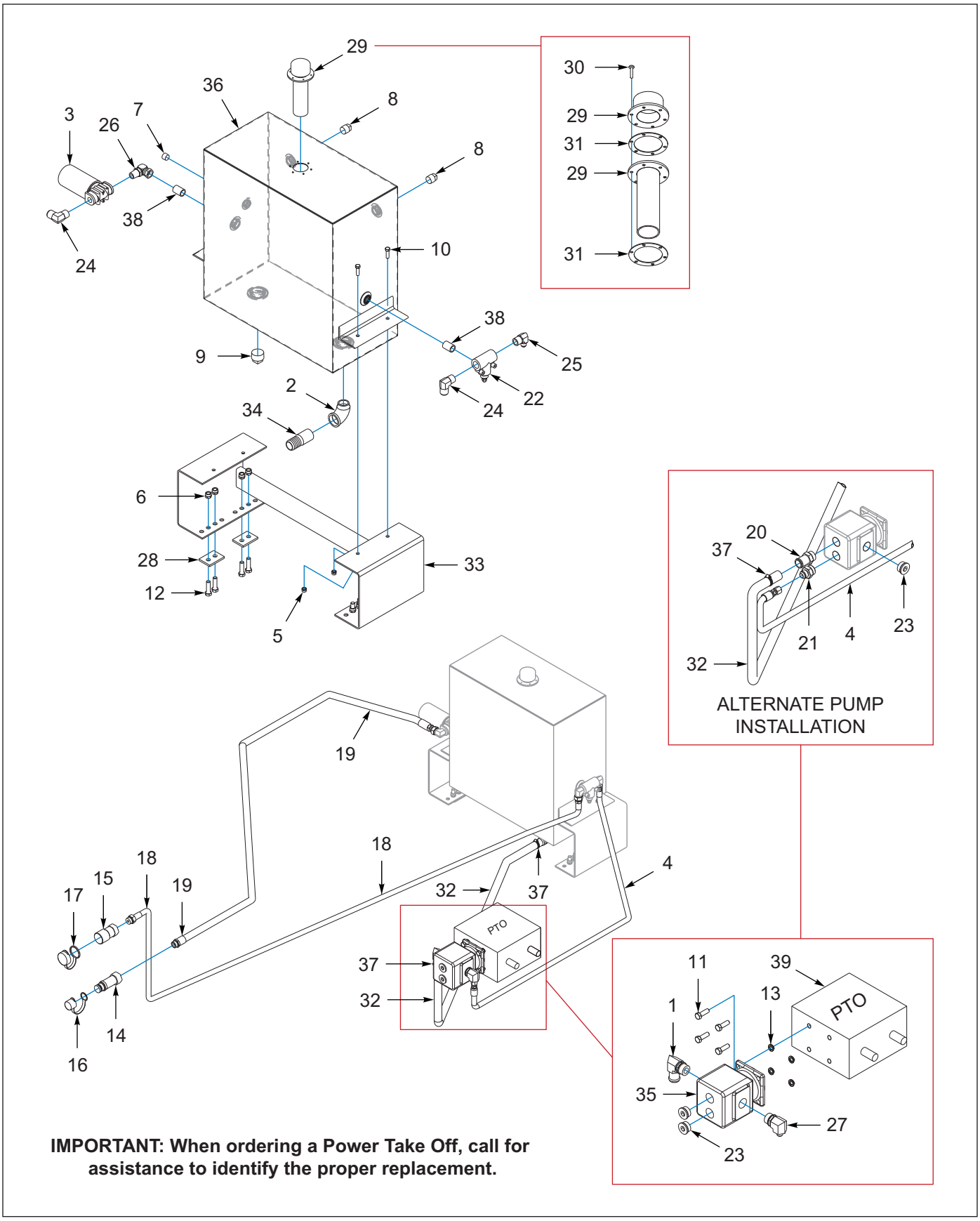


Figure 1-25: 30 Gallon Hydraulic Wet Kit (OPTION)

30 Gallon Hydraulic Wet Kit (OPTION)

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

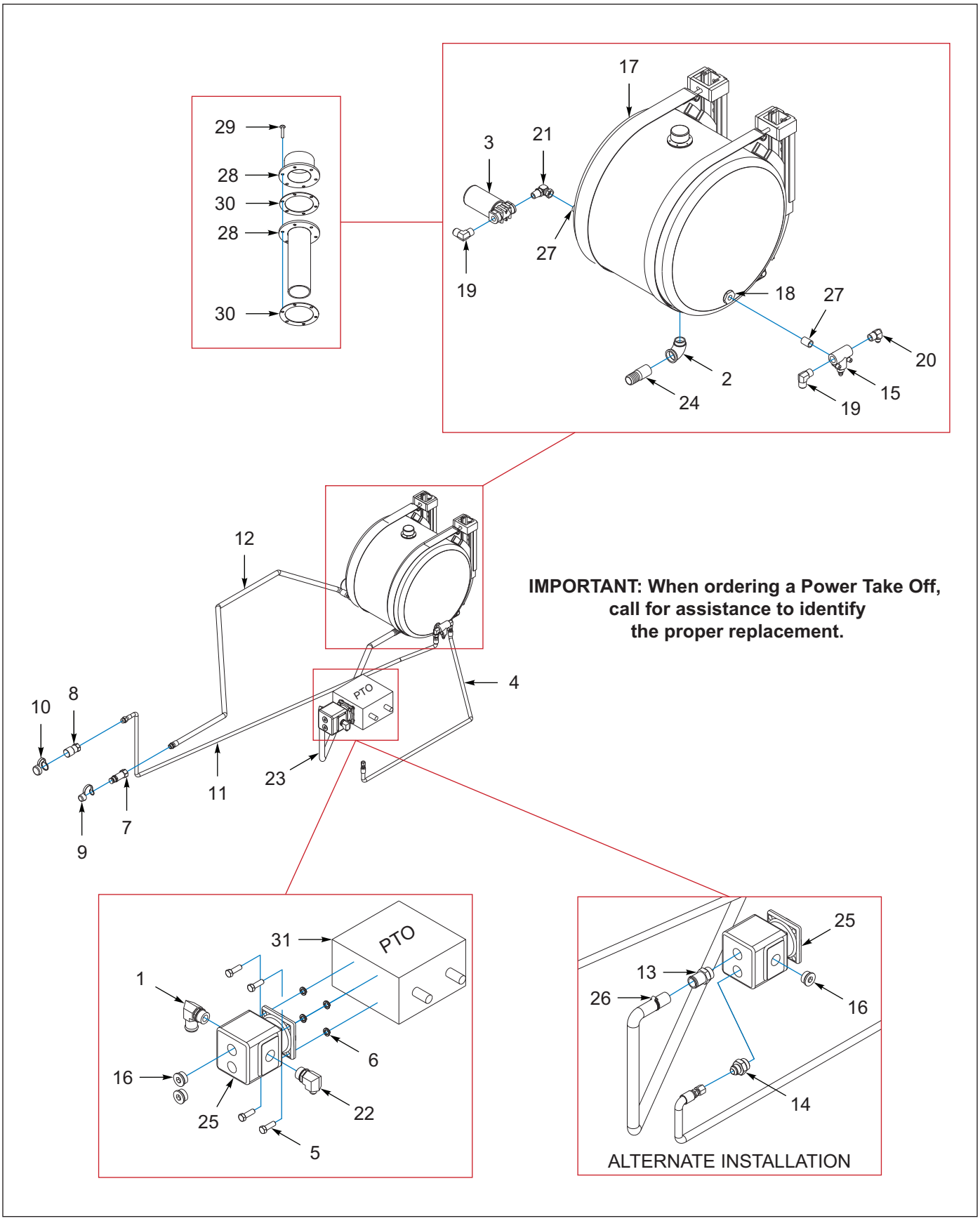


Figure 1-26: 35 Gallon Aluminum Wet Kit (OPTION)

35 Gallon Aluminum Hydraulic Wet Kit (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	157663	HYDRAULIC WET KIT, 35 GALLON ALUM	- -
1	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
2	1-295-010001	FILTER, RETURN	1
2	1-295-010002	FILTER ELEMENT	1
3	1-397-010301100	HOSE ASSEMBLY 1/2 X 100	1
4	1-397-010313021	HOSE ASSEMBLY 3/4 X 21	1
5	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
6	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	8
7	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
8	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	2
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
10	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
11	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	8
12	1-861-010032-07	WASHER, FLAT 1/4W	2
13	1-861-010032-10	WASHER, FLAT 3/8N	8
14	1-861-010032-18	WASHER, FLAT 5/8N	8
15	1-861-010034-13	WASHER, SPLIT LOCK 1/2	4
16	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022 - SILVER BODY)**	- -
16	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
17	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
17	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
18	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
18	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
19	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
19	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
20	106759	HOSE ASSEMBLY 1/2 X 164	1
21	106760	HOSE 3/4 X 164	1
22	107513	ADAPTER	1
23	118-2658-10	NIPPLE HEX 1/2 X 1/2	1
24	12-16 070120	ADAPTER	1
25	125130	RD12D HYDRAULIC BY PASS SRDD	1
26	157662	ALUMINUM HYDRAULIC OIL TANK	1
27	157664	HYDRAULIC FILTER BRACKET	1
28	20-12 140140	REDUCER, STR	2
29	20-20-20 140424	TEE	1
30	2024-12-12S	ADAPTER, 90	2
31	2024-12-8S	ADAPTER, 90	1
32	2047-12-12S	ELBOW, 90 SWIVEL	1
33	2062-16-8S	ADAPTER, 90	1
34	3-399-010001	HOSE, 1-1/4 SUCTION	8’
35	3-561-010001	HOSE BARB 1-1/4	1
36	3-591-010001	HYDRAULIC GEAR PUMP	1
37	6828	IDEAL HOSE CLAMP	2

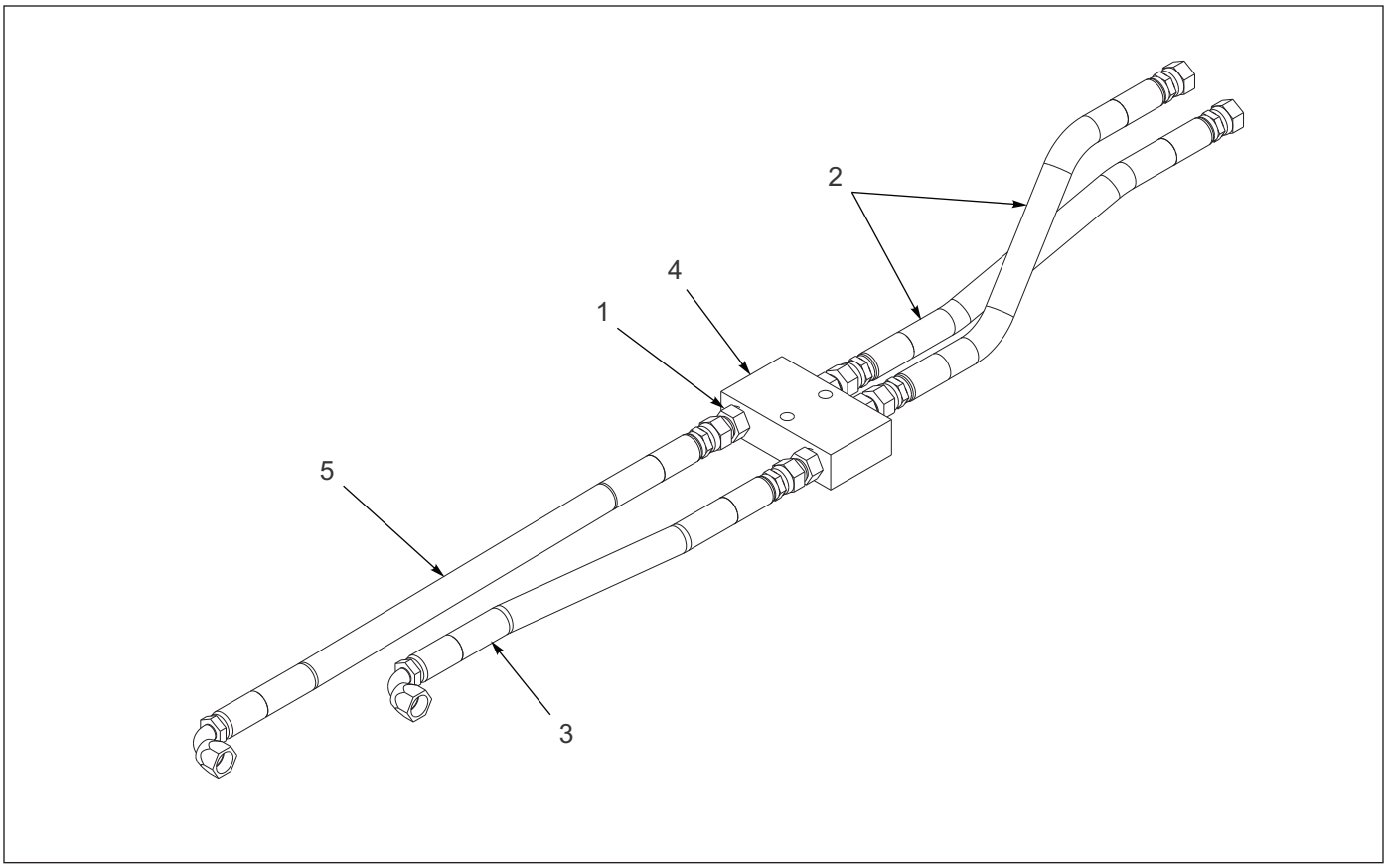


Figure 1-27: Tilt Cylinder Check Valve Installation (OPTION)

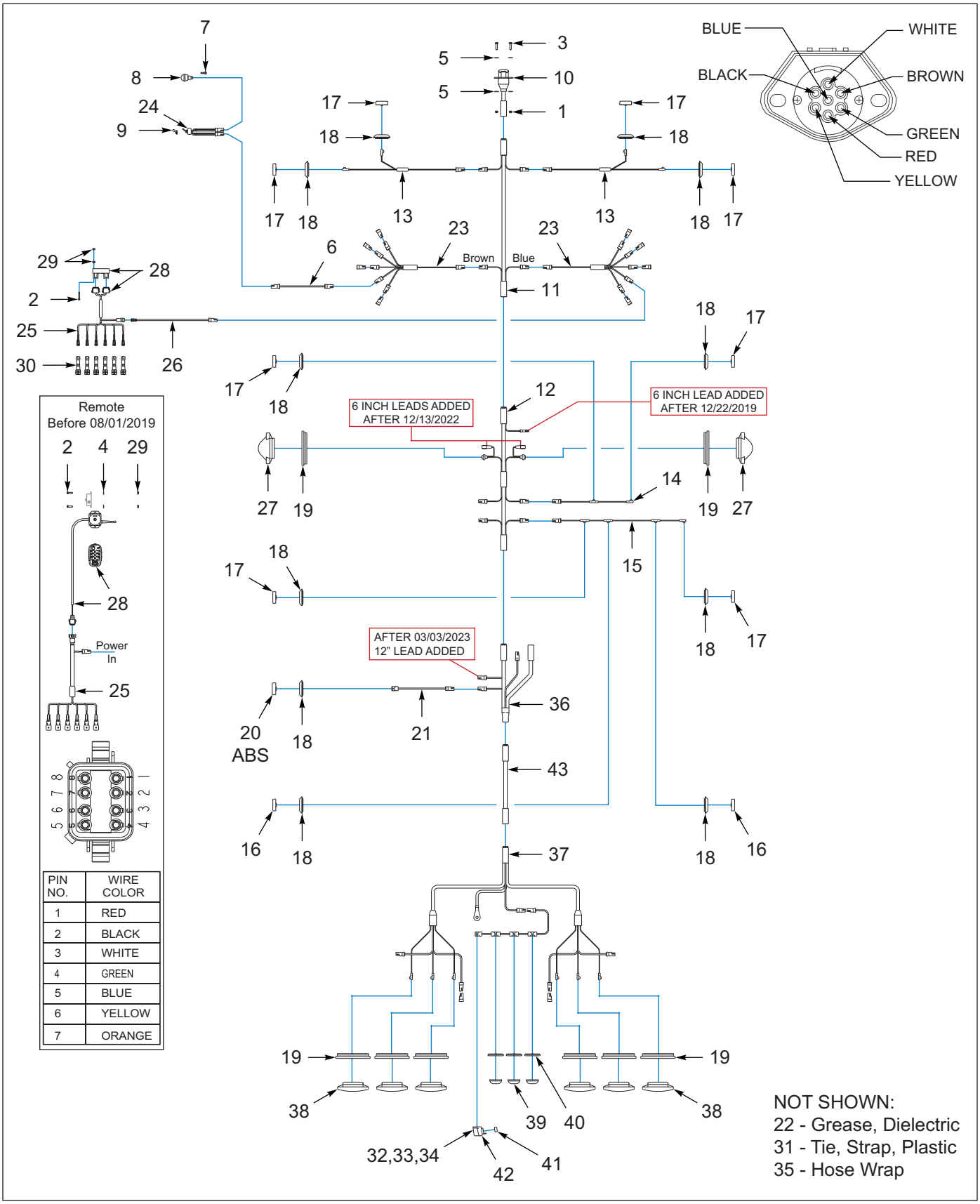
Tilt Cylinder Check Valve Installation (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	136565	TILT CYLINDER CHECK VALVE INSTALLATION	- -
1	202702-8-8S	ADAPTER	4
2	1-397-010301018	HOSE, 1/2 X 18	2
3	125871	HOSE, 1/2 X 21	1
4	124696	VALVE, CHECK DOUBLE PILOT O-RING	1
5	107756	HOSE, 1/2 X 24	1

Table provided for general use.

NOTES:

System, Electric



PIN NO.	WIRE COLOR
1	RED
2	BLACK
3	WHITE
4	GREEN
5	BLUE
6	YELLOW
7	ORANGE

Figure 1-28: Electrical System

Electrical System

ITEM	PART NO.	DESCRIPTION	QTY.
	143214	HYD ELECT AIR 425-41 RMT **(425)**	- -
	151824	HYD ELECT AIR 440-52HD RMT **(440)**	- -
	143208	HYD ELECT AIR 410-48/50CA RMT **(455)**	- -
	143198	SUSP 410-102 GROTE	- -
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
2	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5 **(W/ REMOTE) (BEFORE 08/01/2019)**	2
2	1-654-010024055	SCREW,MACH,FLSTR,#10-24X1-1/4 **(W/ REMOTE) (AFTER 08/01/2019)**	2
3	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	2
4	1-861-010032-07	WASHER,FLAT 1/4 ZP **(W/ REMOTE) (USED BEFORE 08/01/2019)**	2
5	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	4
6	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	1
7	239-3646-5	TERMINAL,16-14AWG,1/4,RING	1
8	26331	LIGHT COURTESY 1-1/2 DIA	1
9	81264	RUBBER BOOT FOR ELECT SWITCH **(12412330)**	1
10	143100	HARNESS 7WAY RECP GROTE	1
11	143101	HARNESS FRONT MAIN GROTE	1
12	143102	HARNESS BED MAIN GROTE	1
13	143105	HARNESS MARKER FRT CORNER GRT	2
14	143106	HARNESS MARKER FRT BED GROTE	1
15	143107	HARNESS MARKER REAR BED GROTE	1
16	143108	LIGHT RED LED 2.5CL/MK GROTE	2
17	143109	LIGHT YEL LED 2.5 CL/MK GROTE	8
18	143110	GROMMET 2.5 SURFACE MT	11
19	143114	GROMMET OVAL GROTE **(DECK REQ 2) (BUMPER REQ 6)**	- -
20	143119	LIGHT YEL LED ABS GROTE	1
21	143120	HARNESS ABS LAMP GROTE	1
22	143123	GREASE DIELECTRIC 4 OZ TUBE **(BY THE TUBE)**	0.5
23	150093	HARNESS 5 AUX BRANCHES GROTE **(W/ REMOTE, REQ 2 EACH) (WO/ REMOTE, REQ 1 EACH)**	2
24	150117	SWITCH ASSY LIGHT GROTE	1
25	140083	HARNESS ASSY, KAR-TECH 400 **(W/ REMOTE) (BEFORE 08/01/2019)**	1
25	209103	HARNESS RECEIVER 6 FUNC SLIDE **(W/ REMOTE) (AFTER 08/01/2019) (SEE PAGE 1-47)**	1
26	164052	HARNESS,60"BRANCH,WORK LIGHT **(W/ REMOTE) (AFTER 08/01/2019)**	1
27	169410	LIGHT YEL MID TURN GROTE	2
28	168648	RECEIVER/TRANS MACRO KAR SL AX **(W/ REMOTE) (BEFORE 08/01/2019) (SEE PAGE 1-45)**	1
28	209100	REMOTE KIT BRAND 6 FUNC SLIDE **(W/ REMOTE) (AFTER 08/01/2019) (SEE PAGE 1-47)**	1
29	108417	NUT SPIRAL 1/4-20HX FG **(W/ REMOTE) (BEFORE 08/01/2019)**	2
29	212074	NUT 10-24 FLANGE HD SERRATED **(W/ REMOTE) (AFTER 08/01/2019)**	4
30	218023	ADAPTER DIN 43/2PIN DUTSCH **(W/ REMOTE) (AFTER 08/01/2019)**	6
31	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0 **(NOT SHOWN)**	100
32	1-512-010007-03	NUT, HEX 10-24 GR2 ZP	2

Electrical System

ITEM	PART NO.	DESCRIPTION	QTY.
33	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	2
34	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	2
35	43029	HOSE WRAP AEROQUIP 1/4 **(BY THE FOOT) (NOT SHOWN-USED TO WRAP HARNESS THRU REAR CHANNEL)**	3
36	143103	HARNESS ECHAIN GROTE	1
37	143104	HARNESS BUMPER GROTE	1
38	143113	LIGHT RED LED OVAL STT GROTE	6
38	179902	LIGHT S/T/T RED CLEAR LENS GRT **(ANNIVERSARY EDITION)**	6
39	143115	LIGHT RED LED RECT CL GROTE	3
39	171925	LIGHT RED CLEAR LENS MICRO CL **(ANNIVERSARY EDITION)**	3
40	143116	GROMMET RECT GROTE	3
41	143117	LIGHT CLEAR LED LICENSE GROTE	1
42	143118	BRACKET LIGHT LICENSE GROTE	1
43	143166	HARNESS EXT 48IN GROTE	1

Table provided for general use.

NOTES:

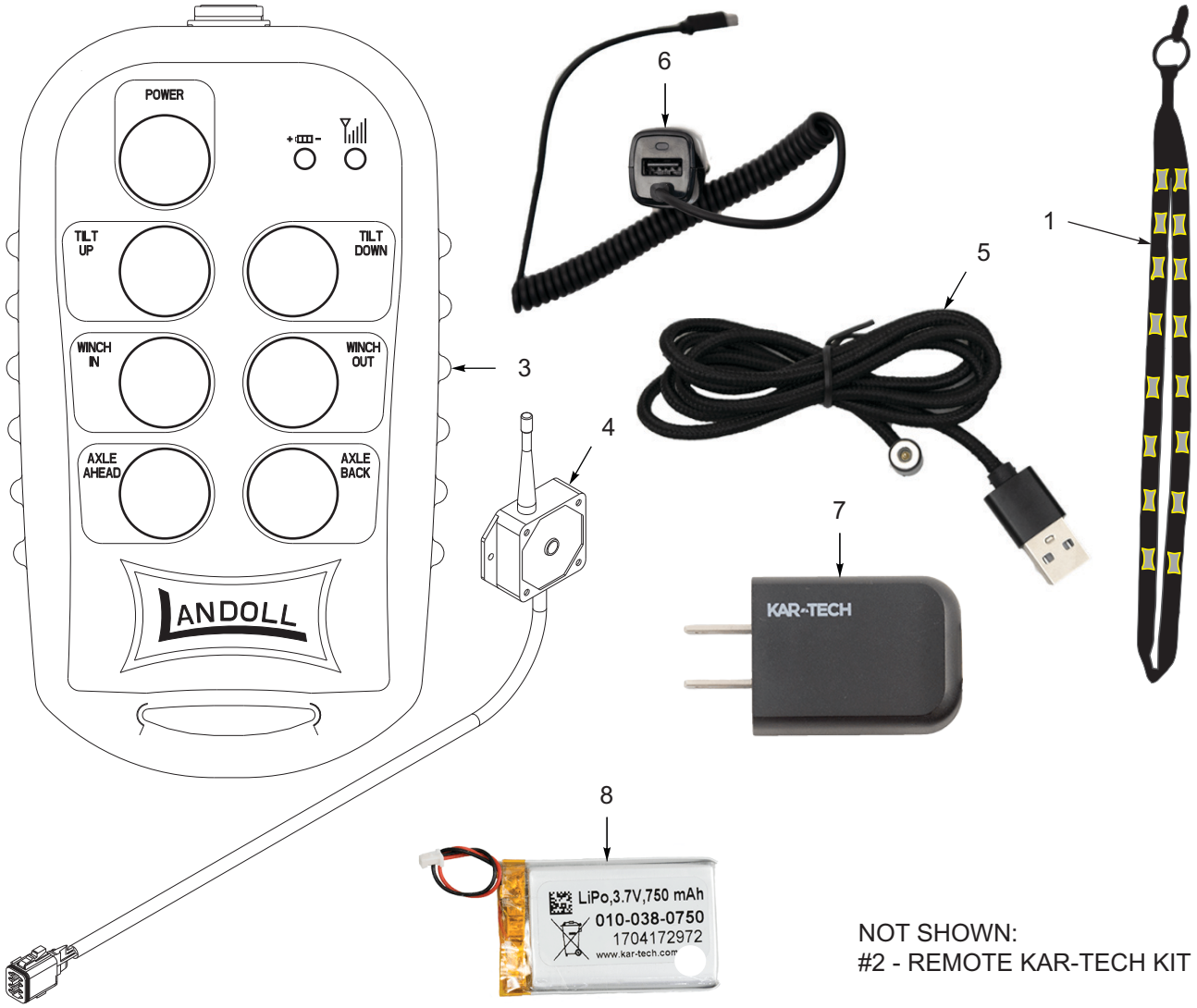


Figure 1-29: Wireless Remote Assembly, Kar-Tech (BEFORE 08/01/2019)

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

ITEM	PART NUMBER	DESCRIPTION	QTY
	168648	RECEIVER/TRANS MACRO KAR SL AX **(INCLUDES ITEMS 1-2)**	- -
1	168979	LANYARD LANDOLL	1
2	168974	REMOTE KAR-TECH SLIDE AX **(INCLUDES ITEMS 3-6)**	1
3	168975	TRANSMITTER (100)	1
4	175583	RECEIVER 6FUNCT FOR 138151	1
5	235291	CHARGER 12V TO MAGNETIC USB **(CORD ONLY, REQUIRES ITEM 6)**	1
6	168976	CHARGER 12V TO MICRO USB **(CAR CHARGER W/MICRO USB, REQUIRES ITEM 5)**	1
7	168982	CHARGER 120V TO MICRO USB **(SOLD SEPERATELY)** **(WALL CHARGER, REQUIRES ITEM 5)**	1
8	197460	BATTERY REPLACE KARTECH MACRO **(SOLD SEPERATELY)** **(CERTAIN TRANSMITTER MODEL NUMBERS ONLY. FOR COMPATIBILITY, CONTACT LANDOLL SERVICE DEPARTMENT)**	1

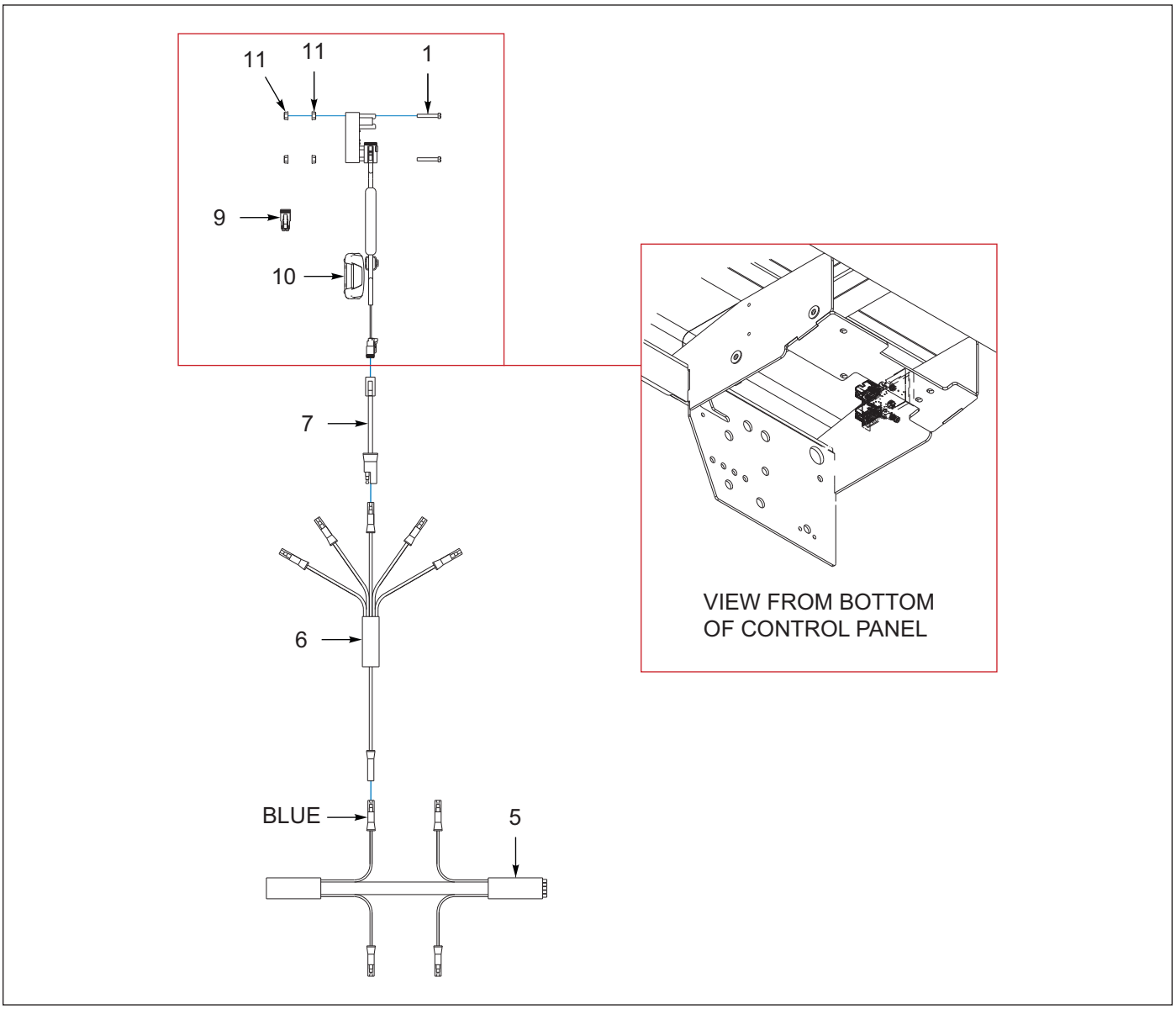


Figure 1-30: Wireless Remote Assembly, Brand (AFTER 08/01/2019)

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

ITEM	PART NUMBER	DESCRIPTION	QTY
1	1-654-010024055	SCREW,MACH,FLSTR,#10-24X1-1/4	2
2	1-660-010006	SILICONE, CLEAR RTV **(NOT SHOWN)**	0.5
3	1-796-010002-01	TIE, STRAP,PLASTIC .140X5.50 **(NOT SHOWN)**	1
4	1-861-010032-04	WASHER,FLAT 3/16 ZP **(NOT SHOWN)**	4
5	143101	HARNESS FRONT MAIN GROTE	- -
6	150093	HARNESS 5 AUX BRANCHES GROTE	1
7	164052	HARNESS,60"BRANCH,WORK LIGHT	1
8	186885	VALVE, 3 SP, 35 GPM, SOLENOID	- -
9	194407	PLUG ASSY DUMMY DEUTSCH 2 PIN	- -
10	209100	REMOTE KIT BRAND 6 FUNC SLIDE	1
11	212074	NUT 10-24 FLANGE HD SERRATED	4

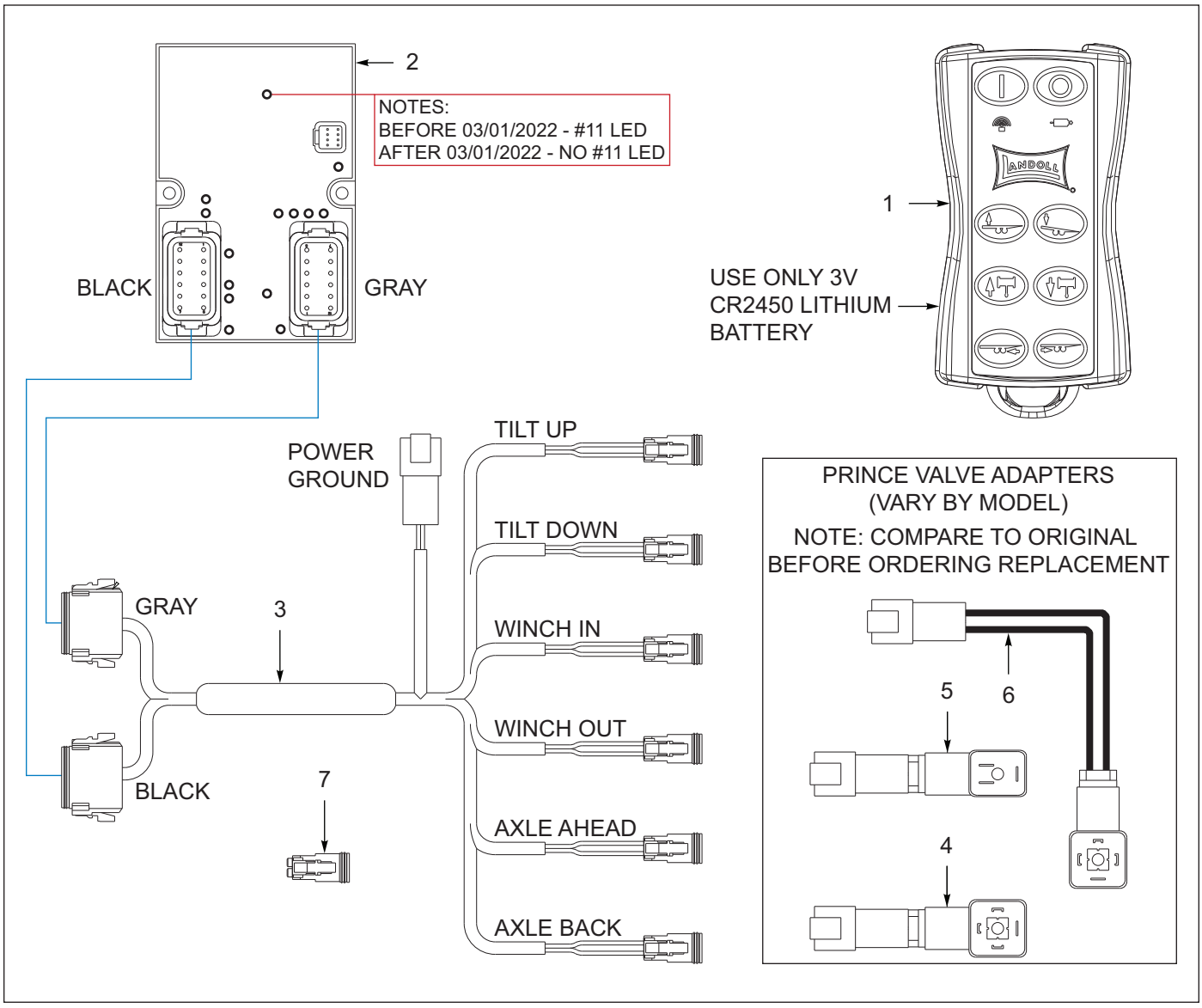


Figure 1-31: Wireless Remote Assembly, Kit, Brand (After 08/01/2019)

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

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

Air Connections

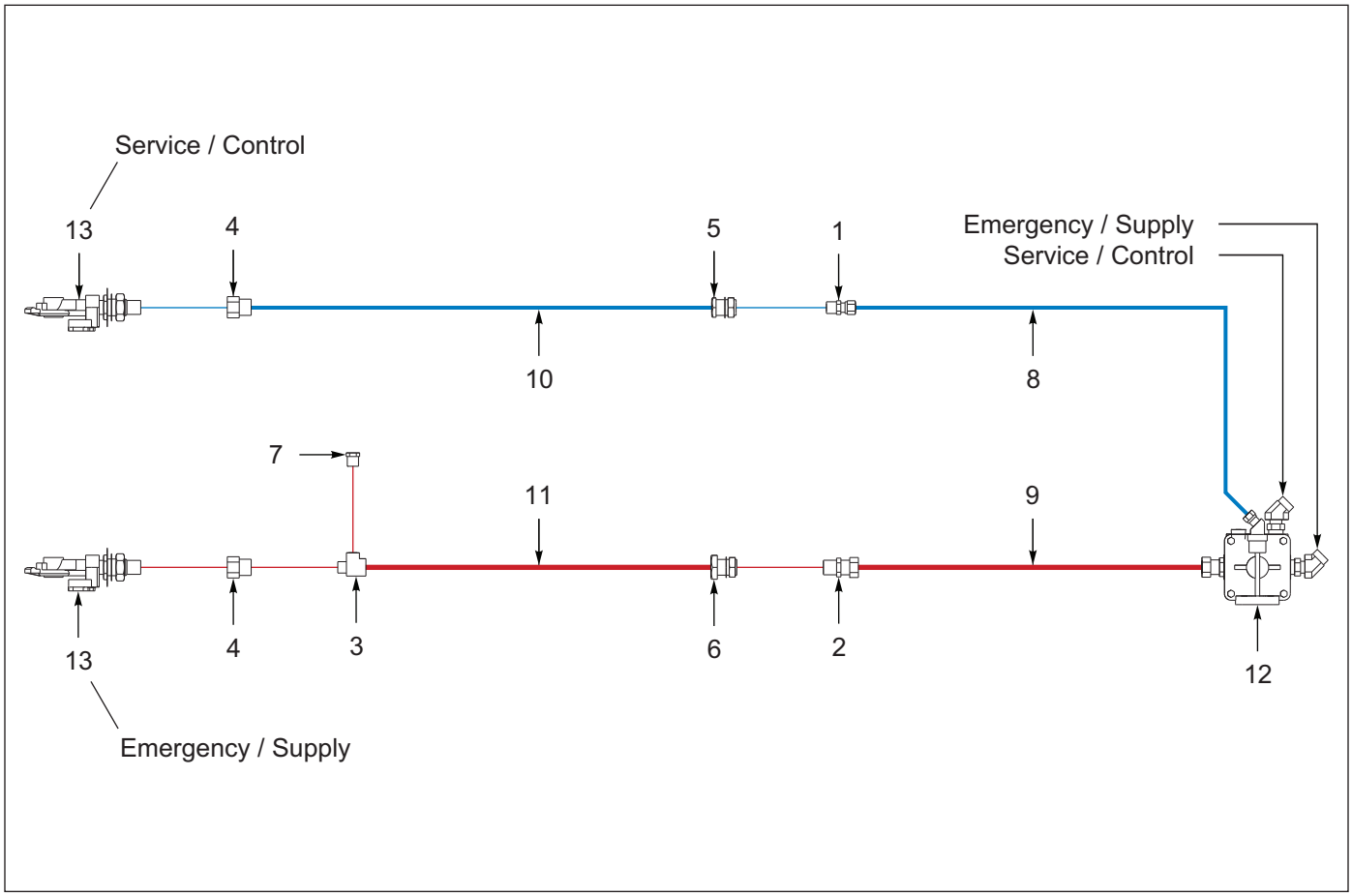


Figure 1-32: Air System, Booster Valve

Air System, Booster Valve

ITEM	PART NO.	DESCRIPTION	QTY.
	143214	HYD ELECT AIR 425-41 RMT **(425)**	- -
	151824	HYD ELECT AIR 440-52HD RMT **(440)**	- -
	143208	HYD ELECT AIR 410-48/50CA RMT **(455)**	- -
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	1
2	1-297-010007-16	FITTING AIR 1/2TUBEX1/2 NPT	1
3	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	1
4	1-297-010021-05	FITTING,BRS PIPE,CPLG 1/2X3/8	2
5	1-297-010022-03	FITTING,AIR ANCHR CPLG, 3/8NPT	1
6	1-297-010022-04	FITTING,AIR,ANCHR CPLG,1/2NPT	1
7	1-297-010033-03	FITTING,BRASS PLUG HEX 3/8NPT	1
8	1-833-010002	TUBING NYLON 3/8 OD **(BLACK-BY THE FOOT)**	18
9	1-833-010003	TUBING NYLON 1/2 OD **(BLACK-BY THE FOOT)**	18
10	100949	HOSE ASM AIR 3/8X222 W/3/8 END **(425) (440-STD) (455-STD)**	1
10	109209	HOSE ASM AIR 3/8X244,W/3/8 END **(440-HD) (455-HD)**	1
11	122557	HOSE AIR 1/2X240 .38-.5NPT **(425) (440-STD) (455-STD)**	1
11	149051	HOSE AIR 1/2X264 .38-.5NPT **(440-HD) (455-HD)**	1
12	141607	VALVE ASSY AIR BOOSTER **(SEE PAGE 1-50)**	1
13	171320	CONNECTORS AIR/HYD (FLOW CTRL) **(SEE PAGE 1-18)**	1

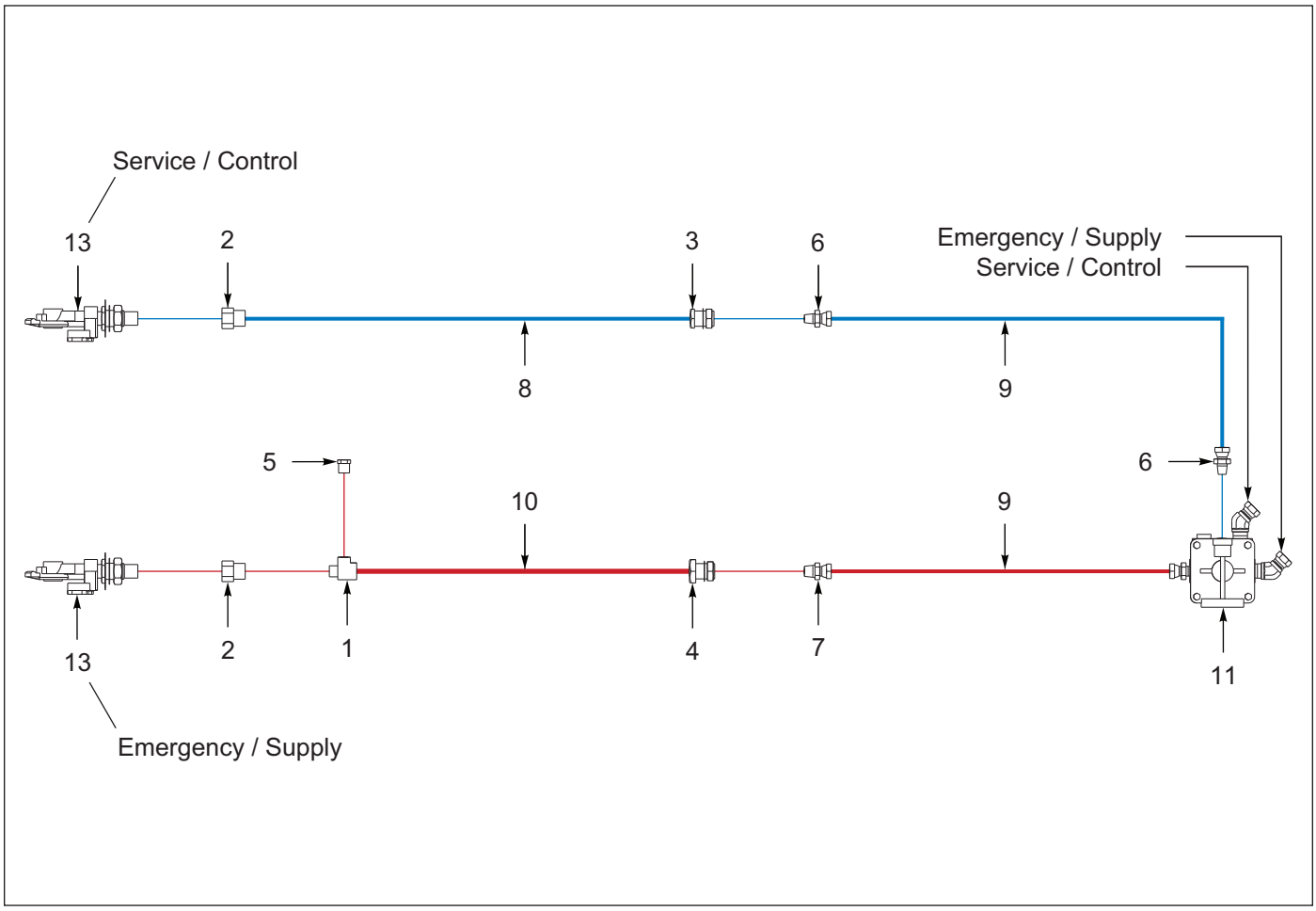


Figure 1-33: Air System, Booster Valve, Arctic

Air System, Booster Valve, Arctic

ITEM	PART NO.	DESCRIPTION	QTY.
	163362	HYD ELE AIR 455-48/50CA RMT AR	- -
1	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	1
2	1-297-010021-05	FITTING,BRS PIPE,CPLG 1/2X3/8	2
3	1-297-010022-03	FITTING,AIR ANCHR CPLG, 3/8NPT	1
4	1-297-010022-04	FITTING,AIR,ANCHR CPLG,1/2NPT	1
5	1-297-010033-03	FITTING,BRASS PLUG HEX 3/8NPT	1
6	2045-6-6S	ADAPTER 3/8PIPETO3/8PIPE SWVL	2
7	2045-6-8S	3/8-1/2 PIPE SWIVEL REDUCER	1
8	126716	HOSE,AIR 3/8X222(3/8END)ARCTC **(455-STD)**	1
8	185787	HOSE AIR 1/2X244.38-5NPT ARC **(455-HD)**	1
9	139944	HOSE,AIR 3/8X200X3/8END)ARCTC **(455-CA)**	2
9	169635	HOSE AIR 3/8X248 (3/8 END)ARCT **(455-ALL EXCEPT CA)**	2
10	163359	HOSE,1/2X240.38-.5NPT ARTIC **(455-STD)**	1
10	185788	HOSE AIR 1/2X264.38-5 NPT ARC **(455-HD)**	1
11	163363	VALVE ASSY AIR BOOSTER ARCTIC **(SEE PAGE 1-51)**	1
12	171320	CONNECTORS AIR/HYD (FLOW CTRL) **(SEE PAGE 1-18)**	1

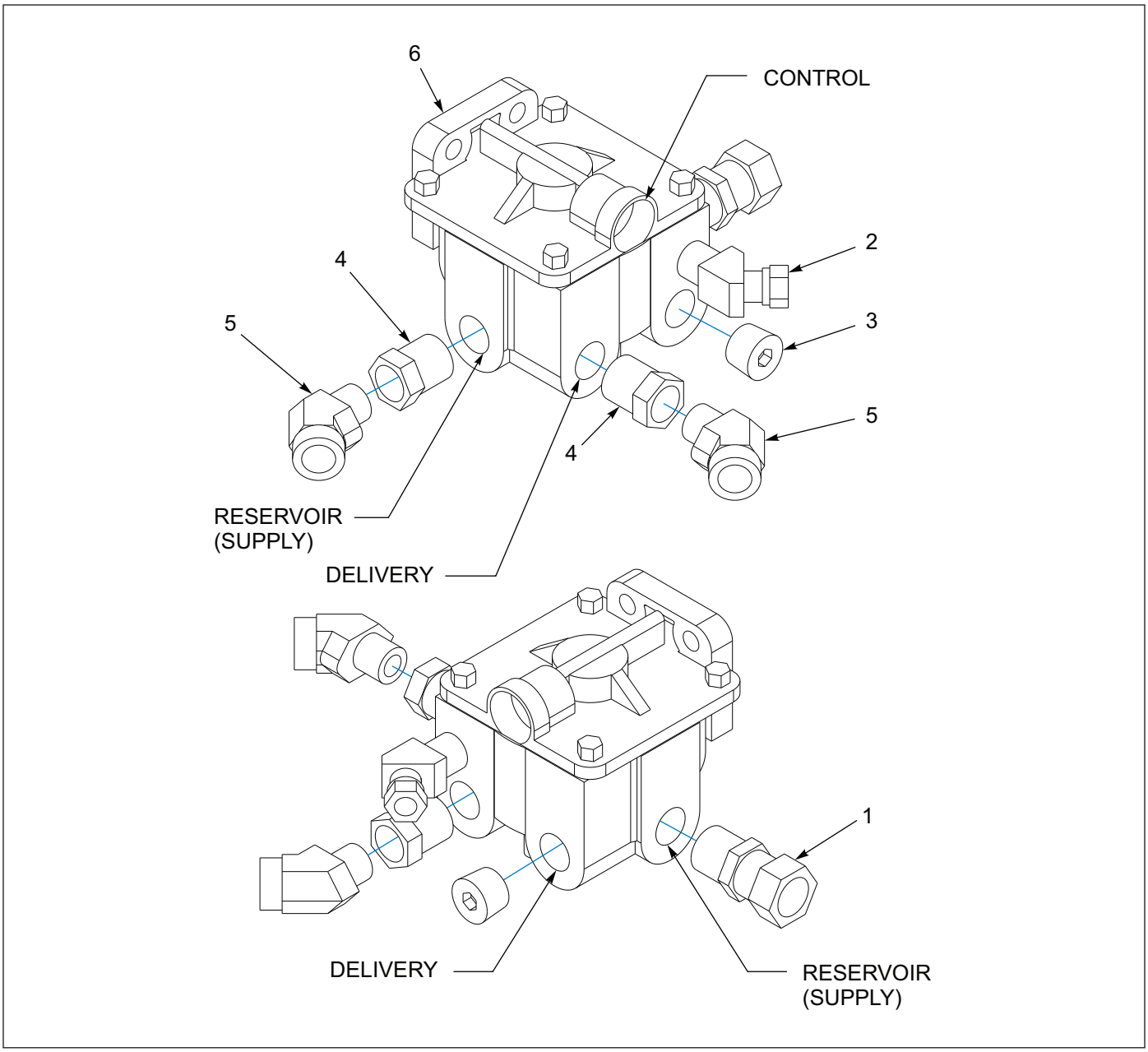


Figure 1-34: Booster Valve, Components

Booster Valve, Components

ITEM	PART NO.	DESCRIPTION	QTY.
	141607	VALVE ASSEMBLY, AIR BOOSTER	- -
1	1-297-010007-16	FITTING, AIR	1
2	1-297-010013-12	FITTING, AIR 45	1
3	1-560-010002-04	PLUG, PIPE, 1/2	1
4	2081-8-6S	REDUCER	2
5	2088-6-6S	ADAPTER, 45	2
6	3-843-010038	VALVE, AIR RELAY-FAST AIR BALANCE	1

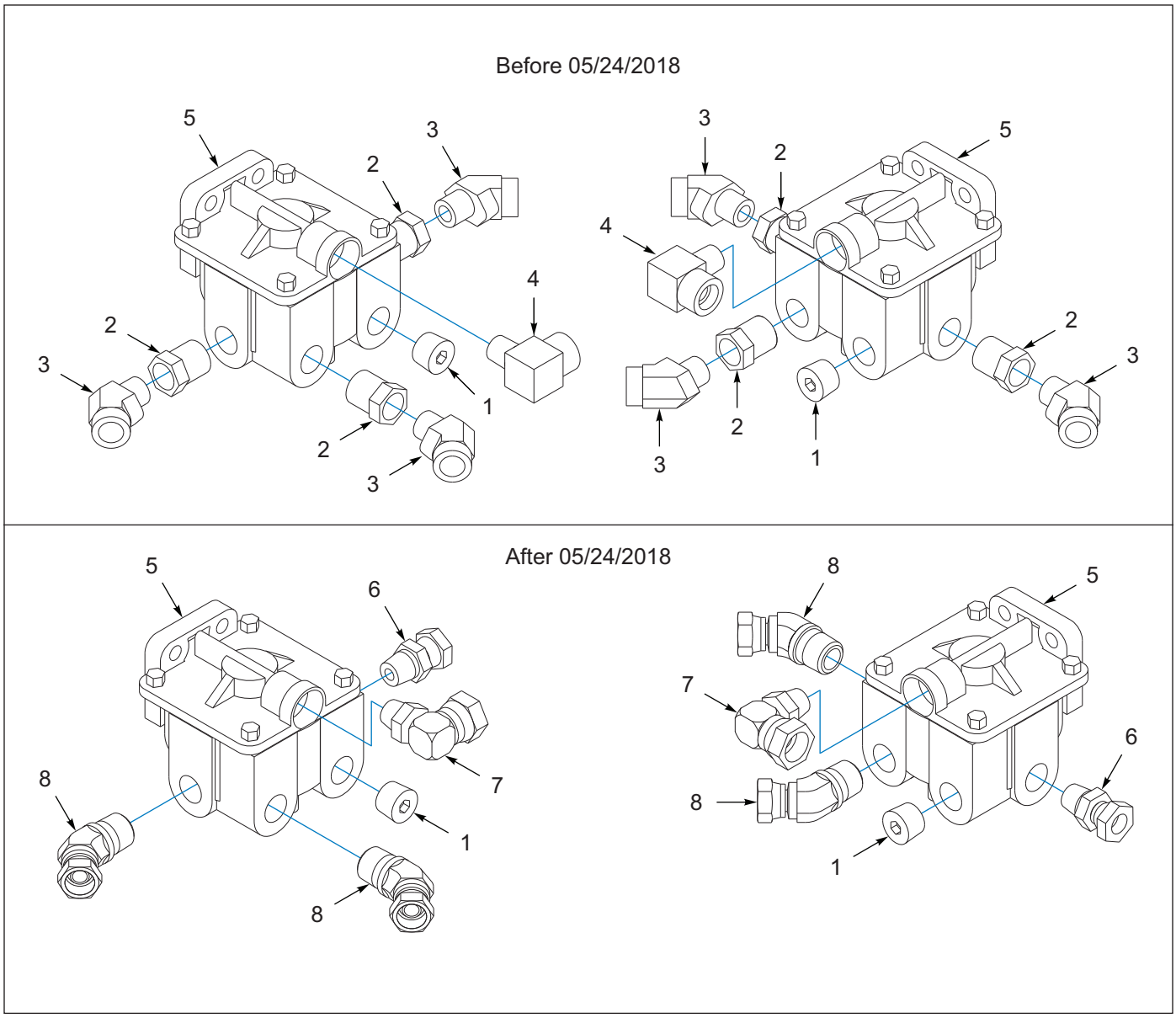


Figure 1-35: Booster Valve, Components, Arctic

Booster Valve, Components, Arctic

ITEM	PART NO.	DESCRIPTION	QTY.
	163363	VALVE ASSY AIR BOOSTER ARCTIC	- -
1	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
2	2081-8-6S	REDUCER 1/2NPT X 3/8NPT **(BEFORE 05/24/2018)**	3
3	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT **(BEFORE 05/24/2018)**	3
4	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT **(BEFORE 05/24/2018)**	1
5	3-843-010038	VALVE,AIR RELAY FAST AIR BAL	1
6	2045-6-8S	3/8-1/2 PIPE SWIVEL REDUCER **(AFTER 05/24/2018)**	1
7	2047-6-6S	INT P SWIV 3/8NPT **(AFTER 05/24/2018)** **(ORDER & INSTALL 2045-6-6S, 1 EACH, SEE PAGE 1-49)**	1
8	2049-6-8S	45 SWIVEL 3/8 FEMALEX1/2MALE **(AFTER 05/24/2018)**	2

Undercarriage

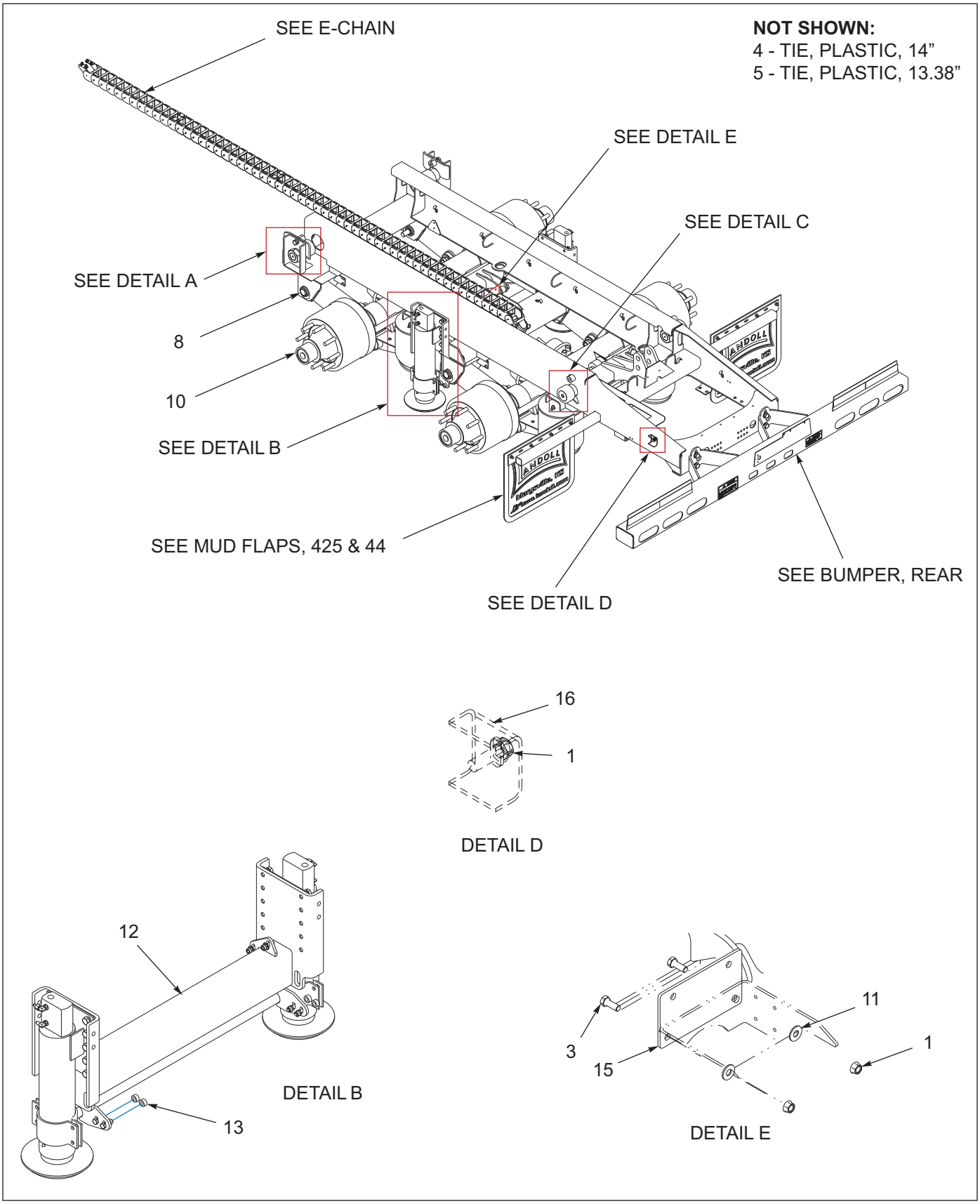


Figure 1-36: General Items - 425 & 440 (1 of 2)

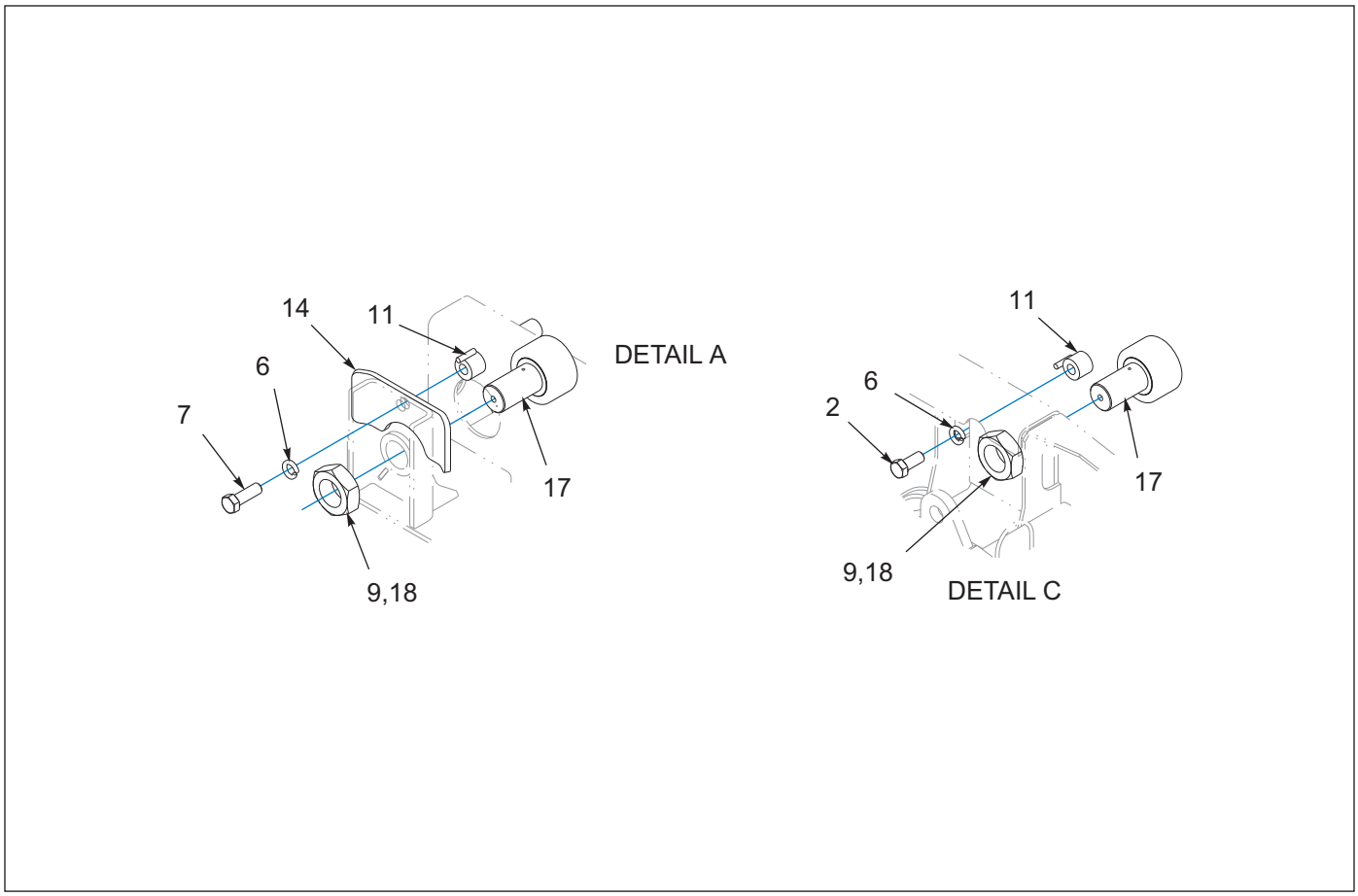


Figure 1-37: General Items - 425 & 440 (2 of 2)

General Items - 425 & 440

ITEM	PART NO.	DESCRIPTION	QTY.
	143131	SUSP LED 435 2512-70.5 GROTE **(440)**	- -
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
2	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	2
3	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
4	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0 **(NOT SHOWN)**	10
5	1-796-010004-02	TIE, STRAP,PLASTIC .301X13.38 **(NOT SHOWN)**	4
6	1-861-010034-17	WASHER, SPLIT LOCK 3/4	4
7	100941	SCREW, HEX HEAD CAP 3/4-10 X 2-1/4 GR8	2
8	- - - - -	SUSP ADJ RLU-228 **(COMPONENTS - SEE PAGE 1-94)**	2
9	104034	NUT, HEX 2-12 GR2	4
10	- - - - -	AXLE WELDMENT **(COMPONENTS - SEE PAGES 1-100 TO 1-110)**	2
11	3-762-010016	HOLD DOWN 425 U/C	4
12	121498	DOCK LEVELER ASSEMBLY **(SEE PAGE 1-238)**	1
12	130851	DOCK LEVELER ASSEMBLY **(SEE PAGE 1-242)**	1
13	124559	SPACER, D/L MOUNT	4
14	140829	PLATE, WEAR U/C 3/8” THICK	2
15	174670	BRACKET, ADAPTER ABS VALVE	1
16	2-181-010001	CLAMP, HOSE	1
17	3-076-010005	CAM FOLLOWER, 4" DIA	4
18	#242 LOCKTITE	LOCKTITE 242 BLUE REMOVABLE **(BY THE BOTTLE)**	1

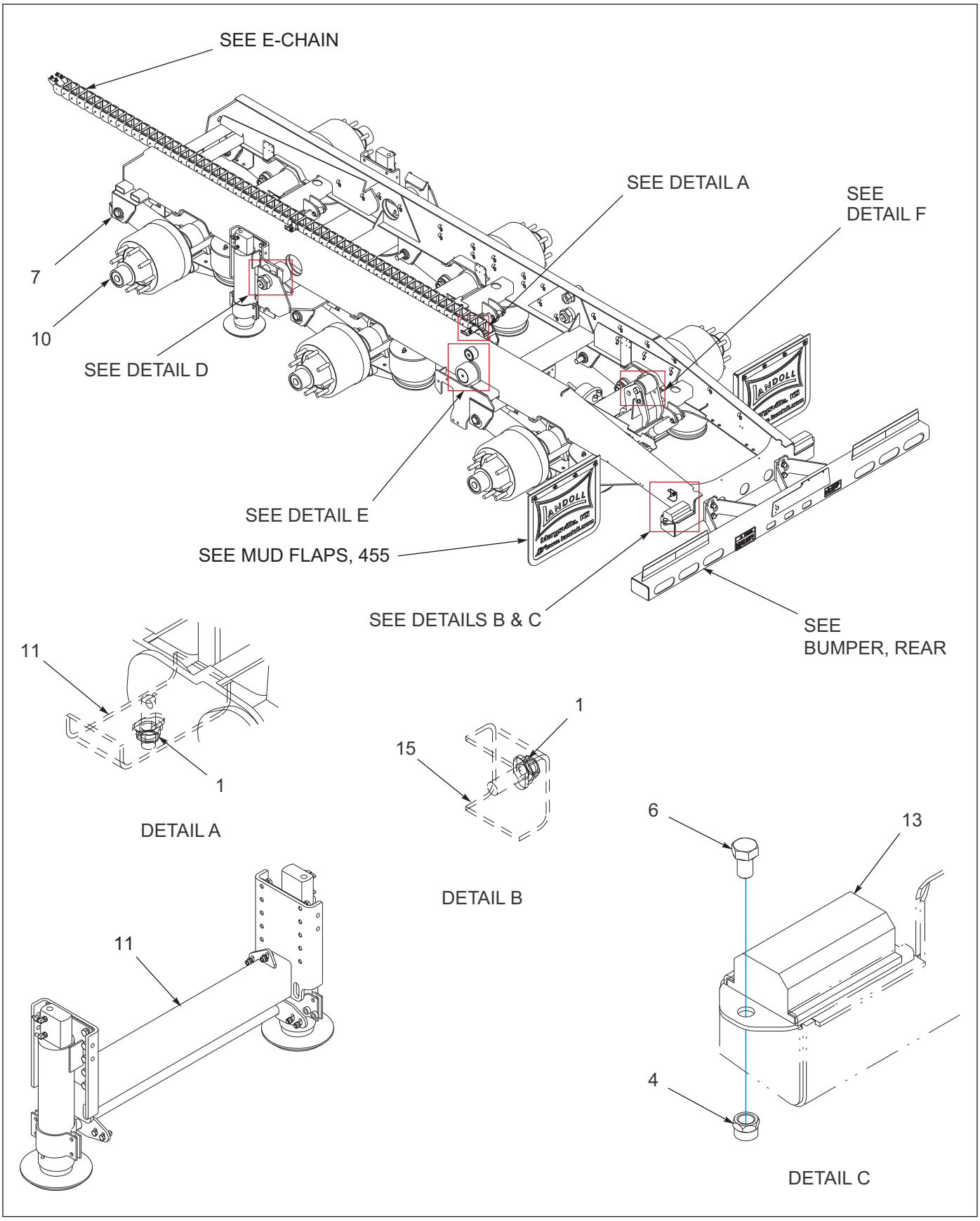


Figure 1-38: General Items - 455 (1 of 2)

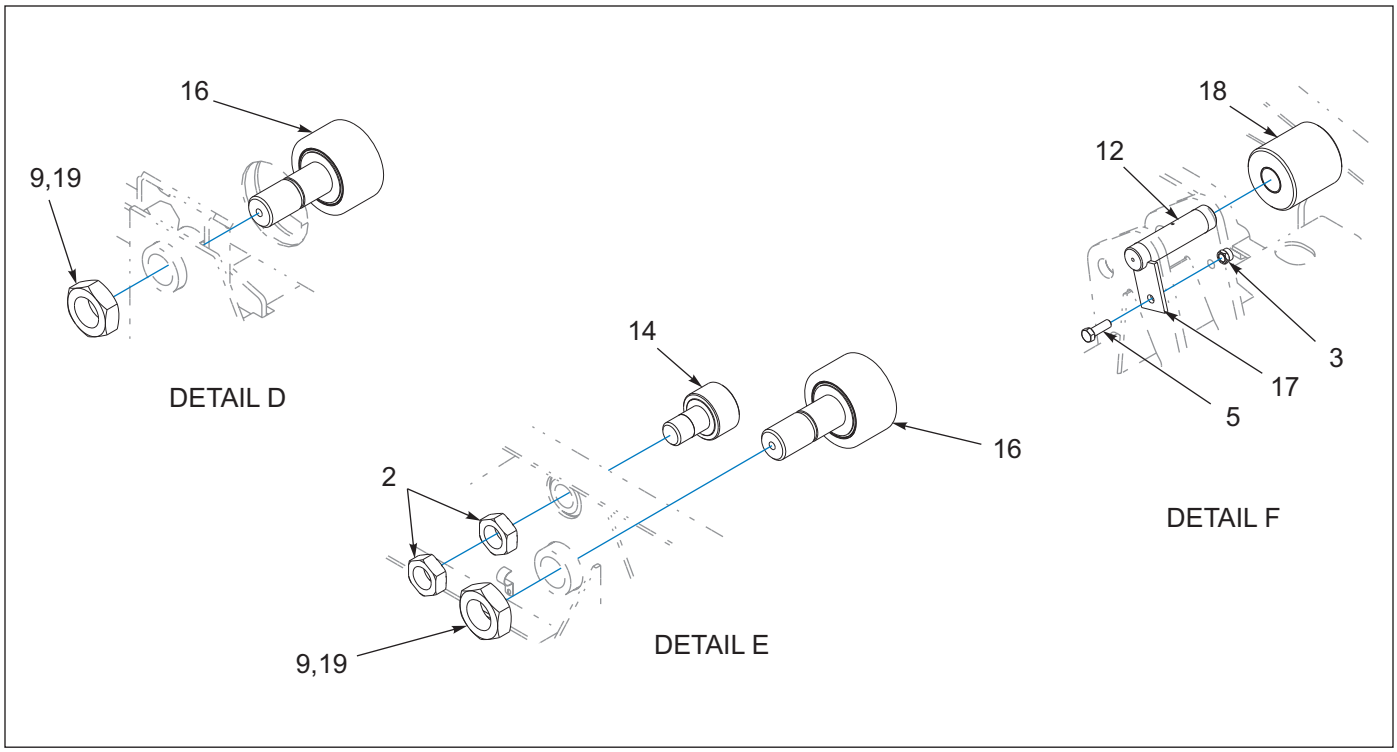


Figure 1-39: General Items - 455 (2 of 2)

General Items - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	169924	SUSP 455-102 GROTE 120K TIS **(102 SB/BB, 108 SB/BB)**	- -
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
2	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
4	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
5	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	1
6	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
7	- - - - -	SUSP ADJ RLU-228 **(COMPONENTS - SEE PAGE 1-94)**	3
8	103817	CLAMP, HOSE	1
9	104034	NUT, HEX 2-12 GRB	4
10	- - - - -	AXLE WELDMENT **(COMPONENTS - SEE PAGES 1-100 TO 1-110)**	3
11	126537	DOCK LEVELER ASSEMBLY **(SEE PAGE 1-243)**	1
11	121498	DOCK LEVELER ASSEMBLY **(SEE PAGE 1-238)**	1
11	130851	DOCK LEVELER ASSEMBLY**(SEE PAGE 1-243)**	1
11	172775	DOCK LEVELER ASSEMBLY SINGLE 60K ARCTIC **(SEE PAGE 1-239)**	1
11	174179	DOCK LEVELER ASSEMBLY 120” 60K **(SEE PAGE 1-240)**	1
11	174180	DOCK LEVELER ASSEMBLY 120” 60K ARCTIC **(SEE PAGE 1-241)**	1
12	121686	PIN, 1-1/2 X 6-1/4	1
13	142565	PLATE, RUB BUMPER 2"	2
14	145532	CAM FOLLOWER 3" SEALED **(TORQUE TO 166 FT/LBS)**	2
15	2-181-010001	CLAMP, HOSE	1
16	3-076-010015	CAM FOLLOWER 5" DIA **(TORQUE TO 250 FT/LBS)**	4
17	3-187-010013	CLIP, PIN RETAINER	1
18	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
19	#242LOCKTITE	LOCKTITE 242 BLUE REMOVABLE **(BY THE BOTTLE)**	1

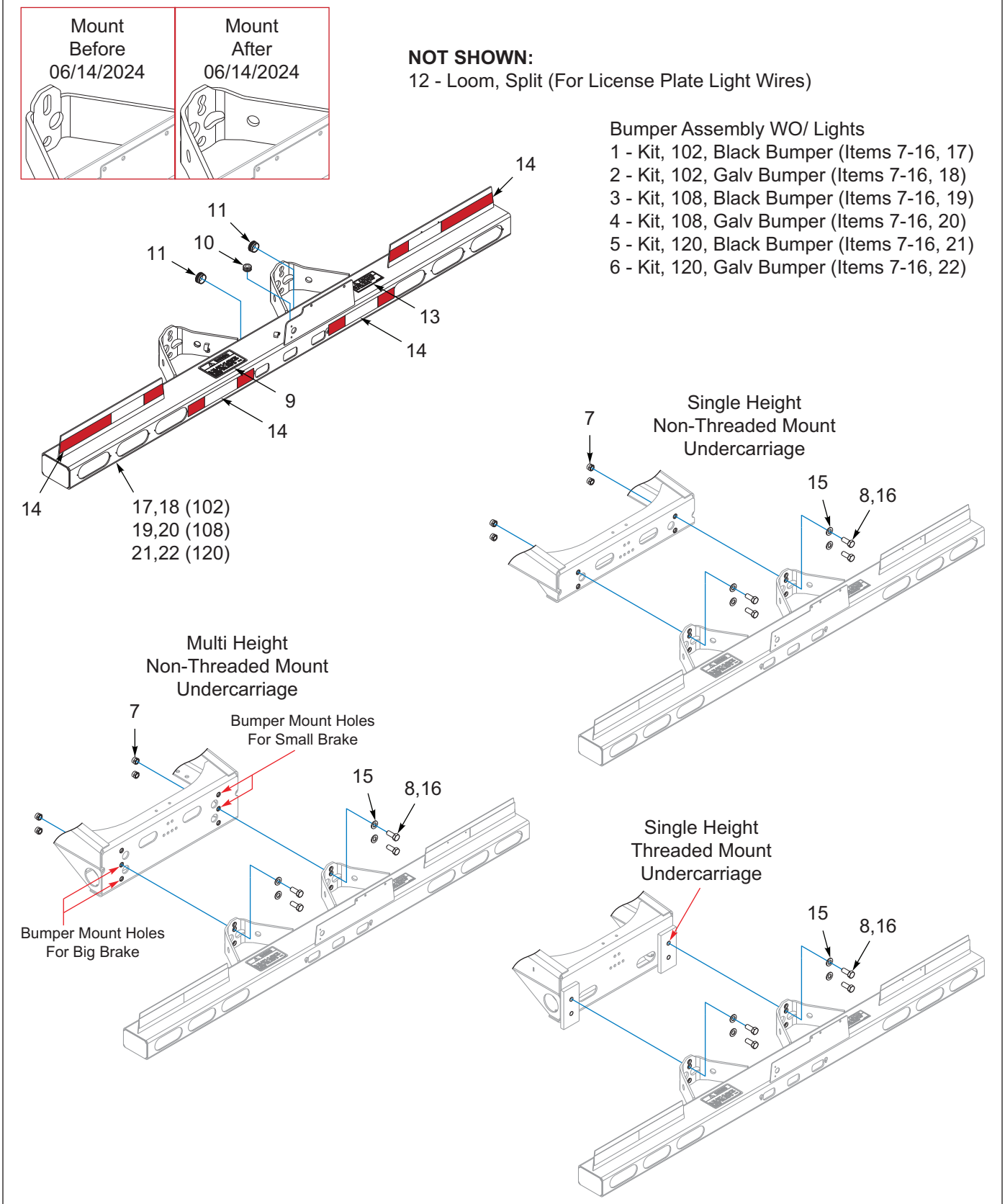


Figure 1-40: Bumper, Rear (1 of 2)

NOTE:
Items Below are Sold Separatly.

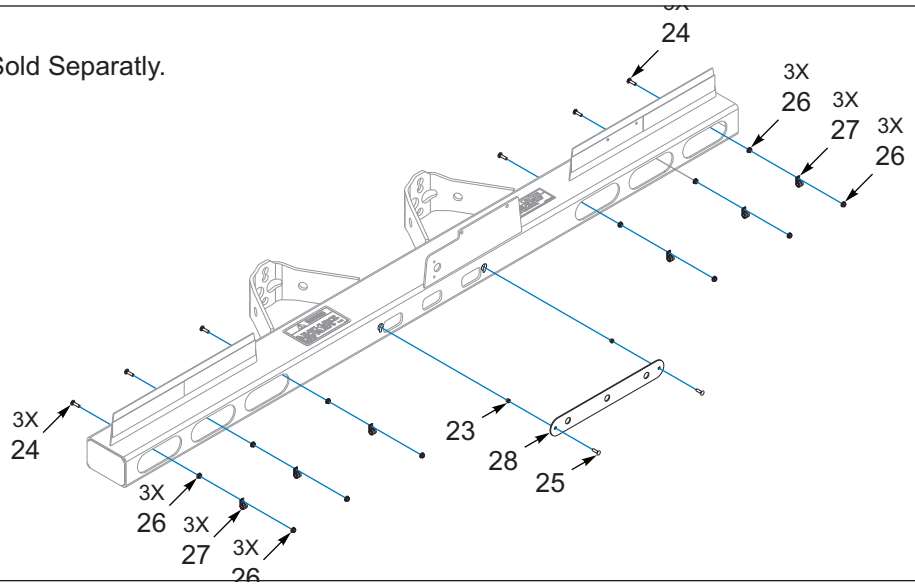


Figure 1-41: Bumper, Rear (2 of 2)

Bumper, Rear

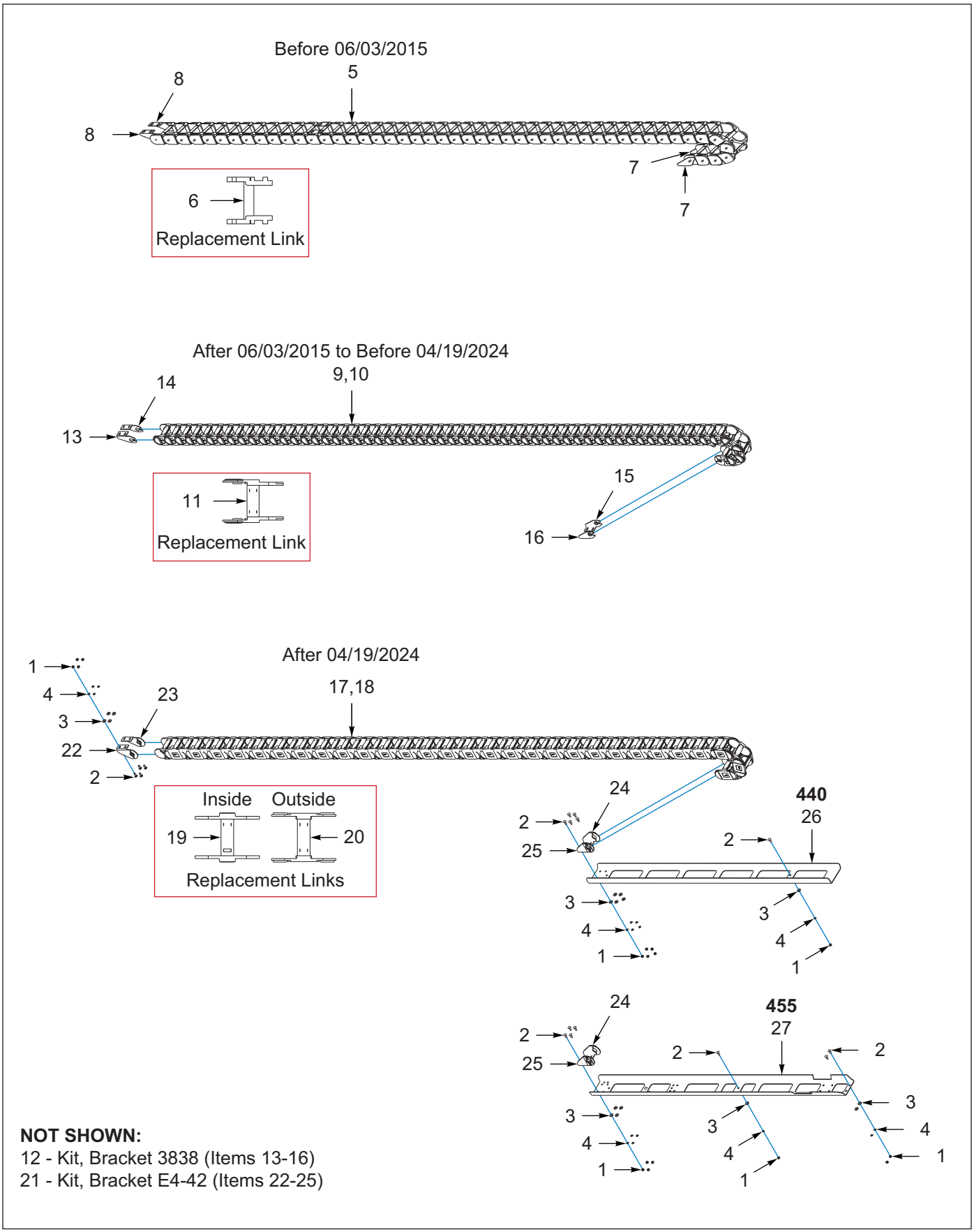
ITEM	PART NO.	DESCRIPTION	QTY.
1	119580FI	BUMPER (REPL)102 WIDE U/C BLK **(102 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 17)**	- -
2	204955FI	BUMPER (REPL)102 WIDE U/C GALV **(102 GALV BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 18)**	- -
3	121369FI	BUMPER (REPL)108 WIDE U/C BLK **(108 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 19)**	- -
4	205812FI	BUMPER (REPL)108 WIDE U/C GALV **(108 GALV BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 20)**	- -
5	133777FI	BUMPER (REPL)120 WIDE U/C BLK **(120 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 21)**	- -
6	205814FI	BUMPER (REPL)120 WIDE U/C GALV **(120 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 7-16, 22)**	- -
7	1-512-010002-15	NUT,HEX SLFLKG 3/4-10 GRC **(INCLUDED WITH ITEMS 1-6)**	4
8	1-654-010032-4	SCREW 3/4-10X1-3/4 HX CP ZPG8 **(INCLUDED WITH ITEMS 1-6)**	4
9	103056	DECAL, ENERGY BUMPER WARNING **(INCLUDED WITH ITEMS 1-6)**	1
10	237-2308-004	GROMMET 5/8ID **(INCLUDED WITH ITEMS 1-6)**	1
11	203248	PLUG,PLASTIC PANEL 1-1/2 **(INCLUDED WITH ITEMS 1-6) (102, 108, REQ 2) (120, REQ 3)**	- -
12	254541	LOOM SPLIT 1/4" ID **(BY THE FOOT) (INCLUDED WITH ITEMS 1-6) (ELECTRICAL - SEE PAGE 1-41)**	1
13	3-573-010031	DECAL TRAILER BUMPER **(INCLUDED WITH ITEMS 1-6)**	1
14	3-573-010377	DECAL,2"REFLEXITE TAPE,RD/WHT **(BY THE INCH) (INCLUDED WITH ITEMS 1-6)**	84
15	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE **(INCLUDED WITH ITEMS 1-6)**	4
16	#242 LOCKTITE	LOCTITE 242 BLUE REMOVABLE **(BY THE BOTTLE) (INCLUDED WITH ITEMS 1-6)**	1
17	- - - - -	BUMPER WLDMT, 102 BLACK **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 1) (INCL. ENERGY CERT PLACARD)**	1
18	- - - - -	BUMPER WLDMT, 102 GALV **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 2) (INCL. ENERGY CERT PLACARD)**	1

Bumper, Rear

ITEM	PART NO.	DESCRIPTION	QTY.
19	- - - - -	BUMPER WLDMT, 108 BLACK **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 3) (INCL. ENERGY CERT PLACARD)**	1
20	- - - - -	BUMPER WLDMT, 108 GALV **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 4) (INCL. ENERGY CERT PLACARD)**	1
21	- - - - -	BUMPER WLDMT, 120 BLACK **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 5) (INCL. ENERGY CERT PLACARD)**	1
22	- - - - -	BUMPER WLDMT, 120 GALV **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 6) (INCL. ENERGY CERT PLACARD)**	1
23	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
24	1-654-010158-02	SCREW,RHD,SQ NCK 1/4-20UNCX1	6
25	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	2
26	108417	NUT SPIRAL 1/4-20HX FG	12
27	125894	CLAMP, CABLE 5/8 SST	6
28	179906	PLATE MTG MICRO ID LIGHTS	1

Table provided for general use.

NOTES:



NOT SHOWN:
12 - Kit, Bracket 3838 (Items 13-16)
21 - Kit, Bracket E4-42 (Items 22-25)

Figure 1-42: E-Chain & E-Chain Tray

E-Chain & E-Chain Tray

ITEM	PART NO.	DESCRIPTION	QTY.
	143131	SUSP LED 435 2512-70.5 GROTE **(440)**	- -
	169924	SUSP 455-102 GROTE 120K TIS **(455)**	- -
1	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP **(440 REQ 10) (455 REQ 11)**	- -
2	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4 **(440 REQ 10) (455 REQ 11)**	- -
3	1-861-010032-07	WASHER,FLAT 1/4 ZP **(440 REQ 10) (455 REQ 11)**	- -
4	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4 **(440 REQ 10) (455 REQ 11)**	- -
5	122536	SUPPORT E-CHAIN 410 **(58 LINKS, MODEL 38, W/BRKTS) (BEFORE 06/03/2015) (KIT OBSOLETE - ORDER ITEM 17)**	- -
6	3-755-010189-1	SUPPORT,E-CHAIN INDV LINK **(MODEL 38) (BEFORE 06/03/2015) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
7	106603	BRKT,E-CHN MT W/HOLE MVG380-L **(SET) (BEFORE 06/03/2015)**	1
8	106604	BRKT E-CHN MT W/PIN STA 380-2 **(SET) (BEFORE 06/03/2015)**	1
9	189383	FI KIT,E-CHAIN,58 LNK W/BRKTS **(06/03/2015 TO 04/19/2024) (KIT OBSOLETE - ORDER ITEM 17)**	- -
10	189318	SUPPORT, E-CHAIN,58 LINKS,3838 **(06/03/2015 TO 04/19/2024) (OBSOLETE - ORDER ITEM 17)**	- -
11	189313	LINK, E-CHAIN, MODEL 3838 **(06/03/2015 TO 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
12	197586	BRACKET KIT (4) 3838 E-CHAIN **(06/03/2015 TO 04/19/2024) (KIT INCLUDES ITEMS 13-16)**	1
13	190700ZP	ZINC PLATE BRACKET E-CHAIN LH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
14	190705ZP	ZINC PLATE BRACKET E-CHAIN RH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
15	190701	BRACKET WLDMT E-CHAIN LH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
16	190706	BRACKET WLDMT E-CHAIN RH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
17	249148	E-CHAIN, E4-42, 58LNK FI KIT **(AFTER 04/19/2024) (KIT INCLUDES ITEMS 18 & 21)**	1
18	249135	E-CHAIN, E4-42, 58LNK **(AFTER 04/19/2024) (INCLUDED WITH ITEM 17)**	1
19	249139	REPL LINK, E4-42, INSIDE **(AFTER 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
20	249141	REPL LINK, E4-42, OUTSIDE **(AFTER 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
21	249142	E4-42 BRACKET KIT FI **(AFTER 04/19/2024) (KIT INCLUDES ITEMS 22-25) (INCLUDED WITH ITEM 17)**	1
22	245969	ECHAIN BKT RH PVT WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
23	245965	ECHAIN BKT LH PVT WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
24	245968	ECHAIN BKT RH HLD WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
25	245963	ECHAIN BKT LH HLD WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
26	118897	TRAY E-CHAIN 425 **(425, 440)**	1
27	3-821-010005	TRAY, CAT-TRACK **(455)**	1

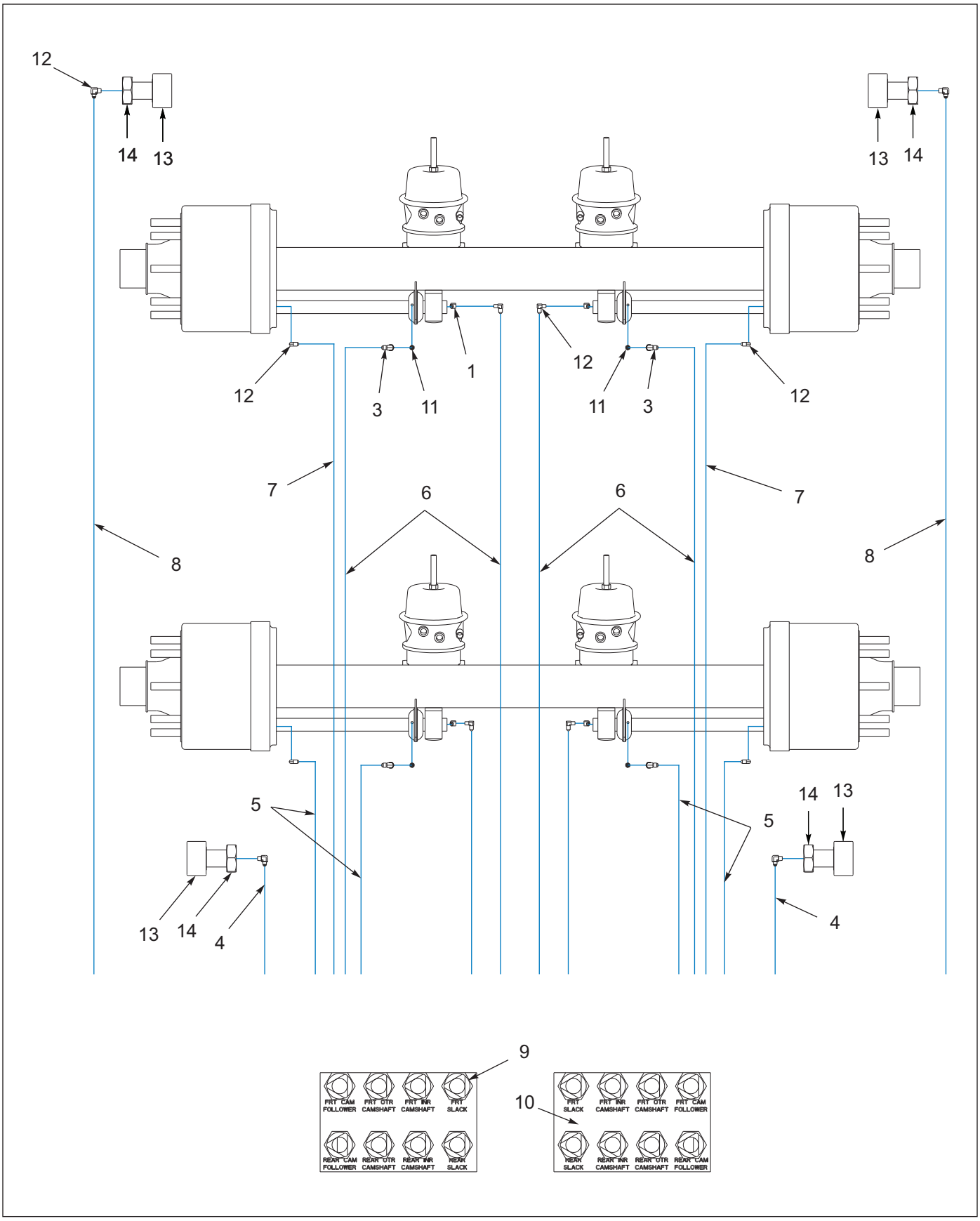


Figure 1-43: Grease Items - 425 & 440

Grease Items - 425 & 440

ITEM	PART NO.	DESCRIPTION	QTY.
	143131	SUSP LED 435 2512-70.5 GROTE **(440)**	- -
1	101528	ELBOW, BRASS PIPE STREET	4
2	113268	ADAPTER, 90	4
3	138155	ADAPTER, 90	4
4	142441	HOSE ASSEMBLY GREASE X 45 **(425 & 440)**	2
4	142442	HOSE ASSEMBLY GREASE X 60 **(440-CA)**	2
5	142443	HOSE ASSEMBLY GREASE X 72 **(425 & 440)**	6
5	144613	HOSE ASSEMBLY GREASE X 88 **(440-CA)**	6
6	142446	HOSE ASSEMBLY GREASE X 118 **(425 & 440)**	4
6	142448	HOSE ASSEMBLY GREASE X 133 **(440-CA)**	4
7	142447	HOSE ASSEMBLY GREASE X 126 **(425 & 440)**	2
7	142450	HOSE ASSEMBLY GREASE X 144 **(440-CA)**	2
8	142451	HOSE ASSEMBLY GREASE X 156 **(425 & 440)**	2
8	144614	HOSE ASSEMBLY GREASE X 172 **(440-CA)**	2
9	142545	NUT, 7/16	16
10	142553	DECAL, GREASE U/C	2
11	161797	ADAPTER, STRAIGHT	4
12	2024-2-4S	ADAPTER, ELBOW	8
13	3-076-010005	CAM FOLLOWER, 4" DIA	4
14	104034	NUT, HEX 2-12UN, GRB, ZP **(ASSEMBLY - SEE PAGE 1-53)**	4

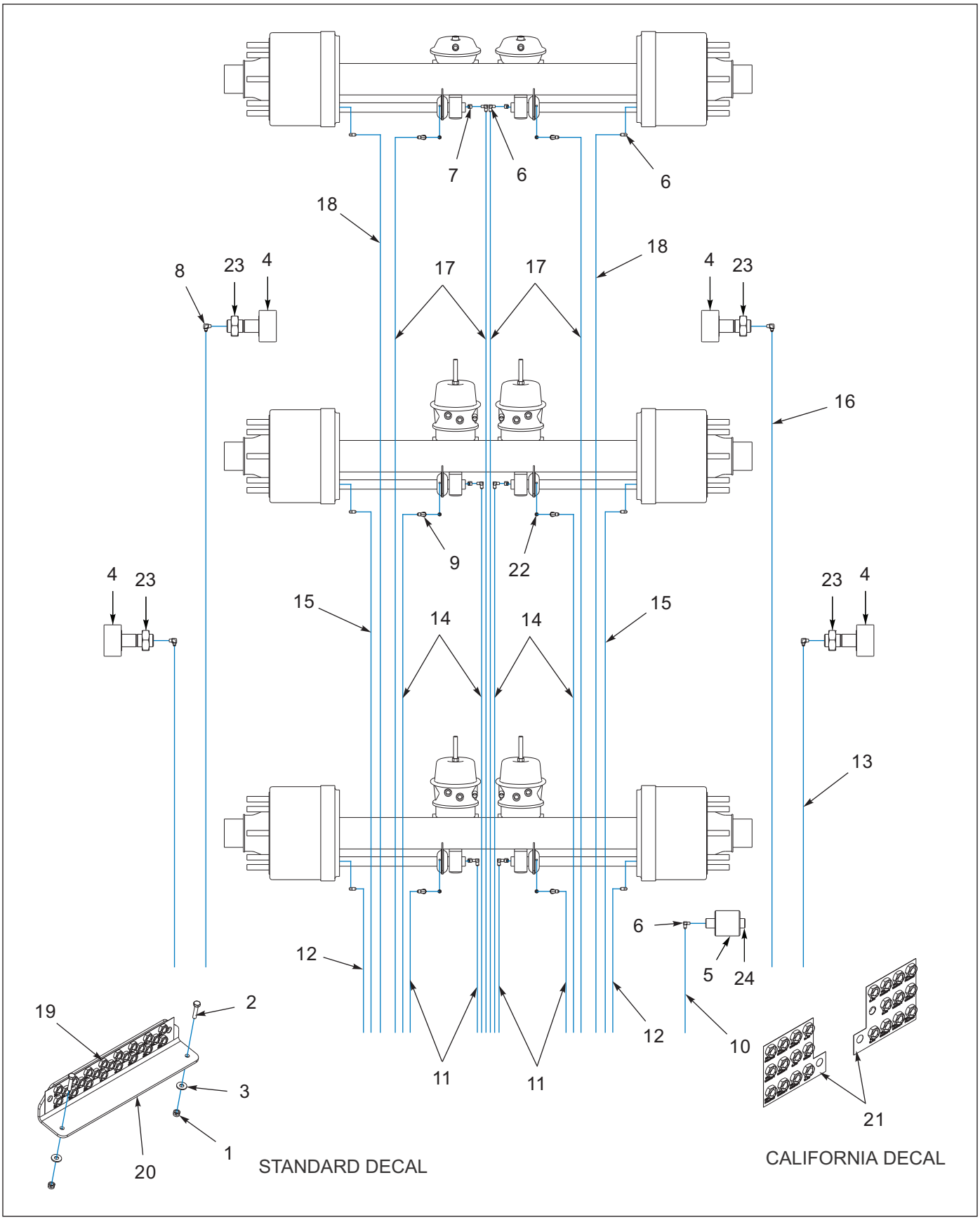
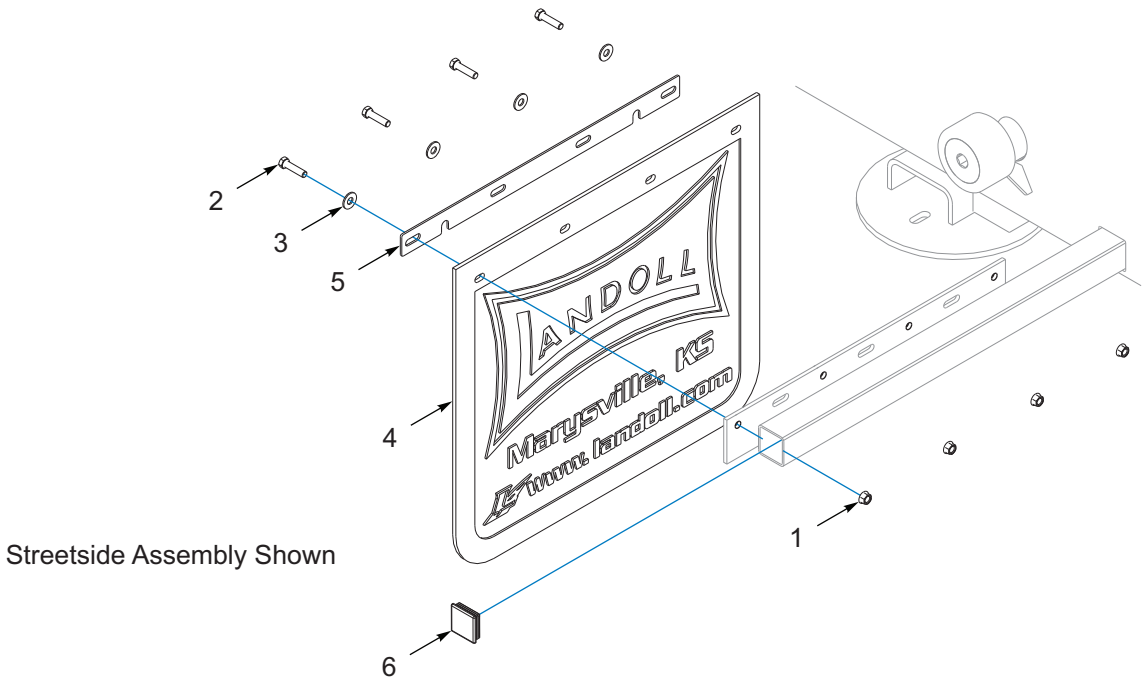


Figure 1-44: Grease Items - 455

Grease Items - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	169924	SUSP 455-102 GROTE 120K TIS **(102 SB/BB, 108 SB/BB)**	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4	*13,11
4	3-076-010015	CAM FOLLOWER 5" DIA **(TORQUE TO 250 FT/LBS)**	4
5	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
6	2024-2-4S	ADAPTER, ELBOW	8
7	101528	ELBOW, BRASS PIPE STREET	4
8	113268	ADAPTER, 90	4
9	138155	ADAPTER, 90	4
10	142441	HOSE ASSEMBLY, GREASE 1/4 X 45 **(STD MODELS)**	1
10	142443	HOSE ASSEMBLY, GREASE 1/4 X 72 **(CA. MODELS)**	1
11	142442	HOSE ASSEMBLY, GREASE 1/4 X 60 **(STD MODELS)**	4
11	142444	HOSE ASSEMBLY, GREASE 1/4 X 83 **(CA. MODELS)**	2
12	142443	HOSE ASSEMBLY, GREASE 1/4 X 72 **(STD MODELS)**	2
12	142445	HOSE ASSEMBLY, GREASE 1/4 X 102 **(CA. MODELS)**	4
13	142444	HOSE ASSEMBLY, GREASE 1/4 X 83 **(STD MODELS)**	2
13	142445	HOSE ASSEMBLY, GREASE 1/4 X 102 **(CA. MODELS)**	4
14	142446	HOSE ASSEMBLY, GREASE 1/4 X 118 **(STD MODELS)**	4
14	142450	HOSE ASSEMBLY, GREASE 1/4 X 144 **(CA. MODELS)**	4
15	142447	HOSE ASSEMBLY, GREASE 1/4 X 126 **(STD MODELS)**	2
15	142451	HOSE ASSEMBLY, GREASE 1/4 X 156 **(CA. MODELS)**	2
16	144614	HOSE ASSEMBLY GREASE X 172 **(STD MODELS)**	2
16	142454	HOSE ASSEMBLY, GREASE 1/4 X 200 **(CA. MODELS)**	2
17	145416	HOSE ASSEMBLY, GREASE 1/4 X 186 **(STD MODELS)**	4
17	142455	HOSE ASSEMBLY, GREASE 1/4 X 217 **(CA. MODELS)**	4
18	142454	HOSE ASSEMBLY, GREASE 1/4 X 200 **(STD MODELS)**	2
18	142455	HOSE ASSEMBLY, GREASE 1/4 X 217 **(CA. MODELS)**	2
19	142545	NUT, 7/16	16
20	143182	BRACKET, GREASE HOSE	1
21	143688	DECAL, GREASE	1
22	161797	ADAPTER, STRAIGHT	4
23	104034	NUT, HEX 2-12UN, GRB, ZP **(ASSEMBLY - SEE PAGE 1-55)**	4
24	121686	PIN 1-1/2X6-1/4 **(ASSEMBLY - SEE PAGE 1-55)**	1



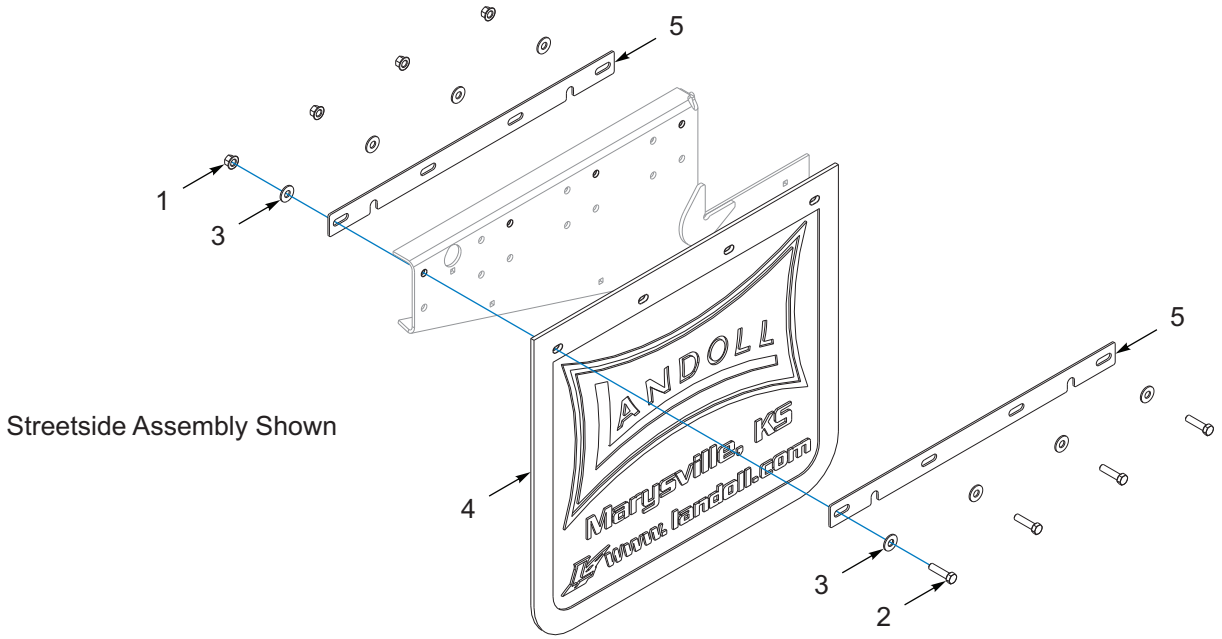
Streetside Assembly Shown

NOTES:
Streetside and Curbside Uses Same Parts.
Parts Table Shows QTY Per Mud Flap.

Figure 1-45: Mud Flaps, 425 & 440

Mud Flaps, 425 & 440

ITEM	PART NO.	DESCRIPTION	QTY.
	143131	SUSP LED 435 2512-70.5 GROTE **(440)**	- -
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	3-485-010001	FLAP, MUD 21 IN	1
5	3-762-010017	CLAMP MUD FLAP	1
6	252188	PLUG SQR TBE 2" - 10-14GA **(ADDED 09/25/2024)**	1



Streetside Assembly Shown

NOTES:
Streetside and Curbside Uses Same Parts.
Parts Table Shows QTY Per Mud Flap.

Figure 1-46: Mud Flaps, 455

Mud Flaps, 455

ITEM	PART NO.	DESCRIPTION	QTY.
	169924	SUSP 455-102 GROTE 120K TIS **(102 SB/BB, 108 SB/BB)**	- -
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	8
4	3-485-010001	FLAP, MUD 21 IN	1
5	3-762-010017	CLAMP MUD FLAP	2

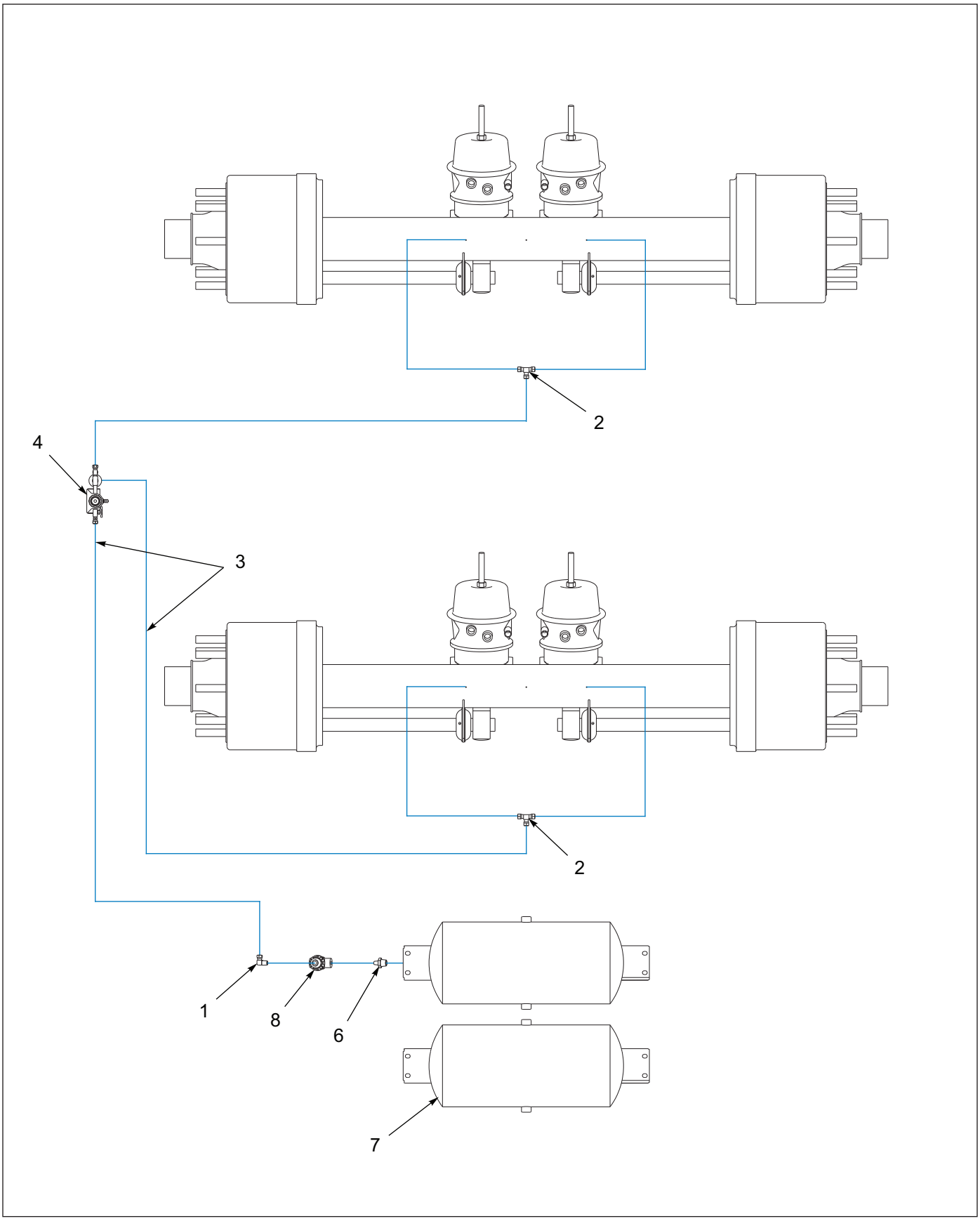


Figure 1-47: Tire Inflation System, Pressure Guard 2 Axle (OPTION)

Tire Inflation System, Pressure Guard 2 Axle (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	143131	SUSP LED 435 2512-70.5 GROTE **(440)**	- -
1	1-297-010008-07	FITTING AIR 90	1
2	1-297-010010-01	FITTING AIR UNION TEE	REF
3	1-833-010001	TUBING NYLON 1/4 OD	AR
4	157702	TIRE INFLATION 2AX**(SEE PAGE 1-72)**	1
5	176473	HARNESS KIT, TIRE INFLATION **(NOT SHOWN) (SEE PAGE 1-74)**	1
6	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
7	3-780-010002	TANK AIR	REF
8	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	REF

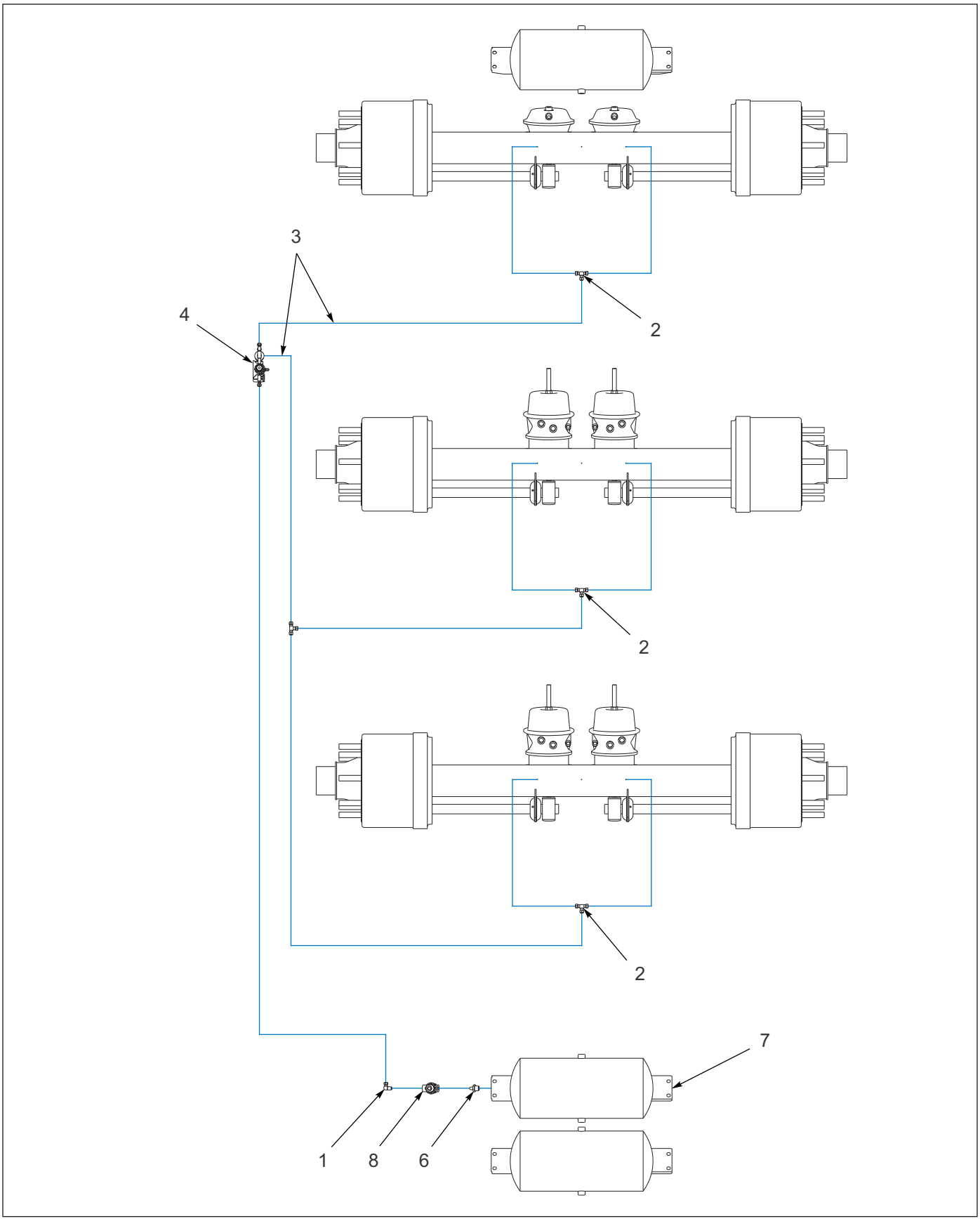


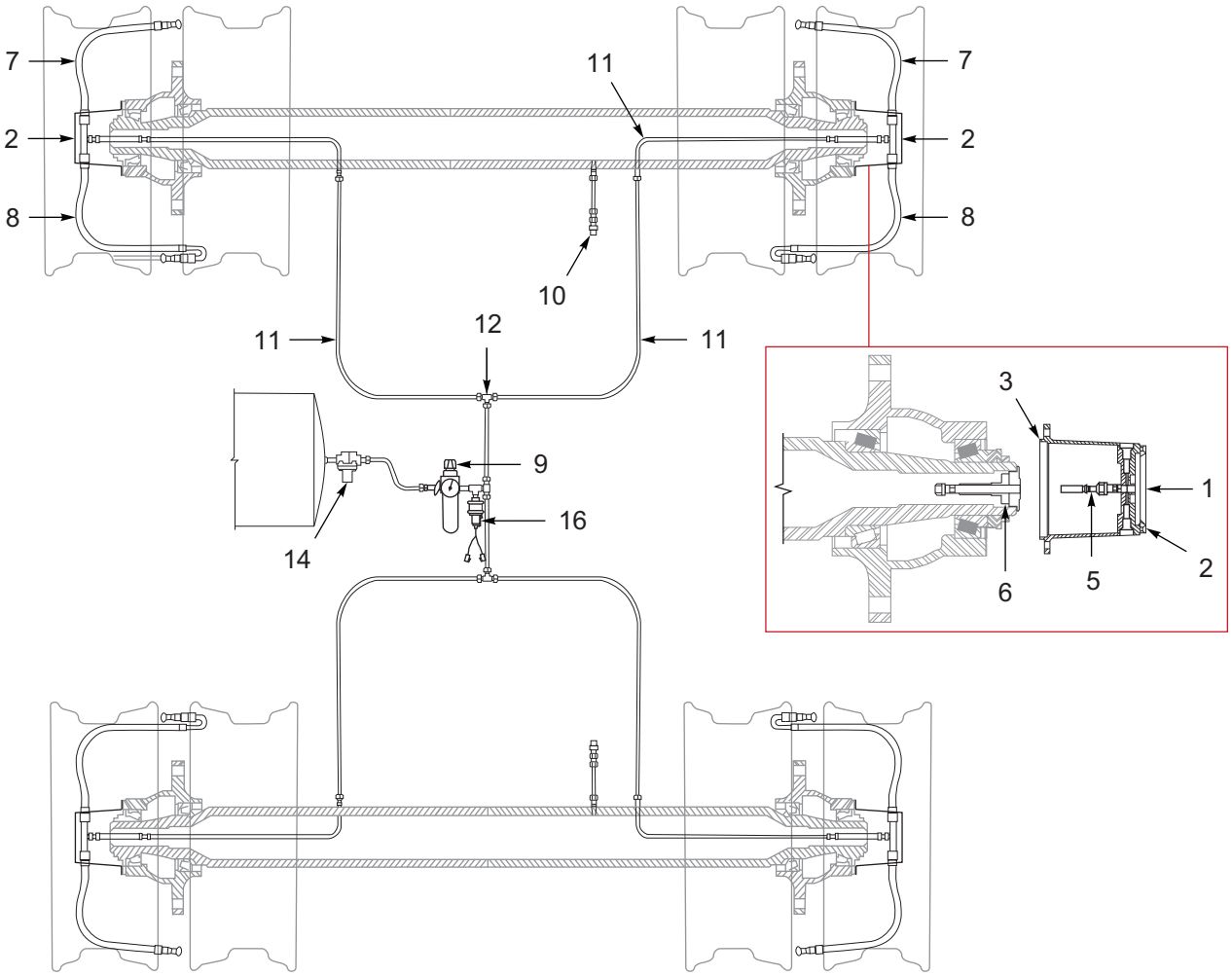
Figure 1-48: Tire Inflation System, Pressure Guard 3 Axle (OPTION)

Tire Inflation System, Pressure Guard 3 Axle (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	169924	SUSP 455-102 GROTE 120K TIS **(102 SB/BB, 108 SB/BB)**	- -
1	1-297-010008-07	FITTING AIR 90	1
2	1-297-010010-01	FITTING AIR UNION TEE	REF
3	1-833-010001	TUBING NYLON 1/4 OD	AR
4	157703	TIRE INFLATION SYSTEM **(NOT SHOWN) (SEE PAGE 1-72)**	1
5	176473	HARNESS KIT, TIRE INFLATION **(NOT SHOWN) (SEE PAGE 1-74)**	1
6	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
7	3-780-010002	TANK AIR	REF
8	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	REF

NOTE: 2 Axle System Shown for Reference Only.

IMPORTANT: Old Style Silver Spindle Plug is NOT COMPATABLE with New Style Hub Cab and Rotating Shaft. Order Item 6, Black Spindle Plug.



NOT SHOWN:
4 - Kit, Spindle Plug W/Rotating Shaft (Items 5-6)
13 - Decal
15 - Light, Pressure Guard
17 - Kit, Axle Plumbing
18 - Chafe Guard
19 - Wire Ties, Large
20 - Light, WARNING

NOTE: QTY Column Shows Quantity Per Axle

Figure 1-49: Tire Inflation System, Pressure Guard (OPTION)

Tire Inflation System, Pressure Guard (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY
	157702	TIRE INFLATION SYSTEM 2AX	- -
	157703	TIRE INFLATION SYSTEM 3AX	- -
1	085-002-02	PLUG OIL CAP DEXTR-REPLCS 5990	2
2	139529	HUBCAP ASSY #75168 **(KIT INCLUDES ITEMS 3, 5, FITTINGS, AND MOUNT BOLTS)**	2
3	157704	GASKET HUB CAP #50008 **(INCLUDED WITH ITEM 2)**	2
4	194159	SPINDLE PLUG W/ROTATING SHAFT **(KIT INCLUDES ITEMS 5-6)**	2
5	157705	ROTATING SHAFT UNIV #10565 **(INCLUDED WITH ITEMS 2, 4)**	2
6	157706	SPINDLE PLUG 1.7 5" # 10874L **(INCLUDED WITH ITEM 4)** **(NEW SYTLE BLACK PLUG REPLACES OLD SILVER PLUG)**	2
7	180839	TIS LONG HOSE	2
8	180840	TIS SHORT HOSE	2
9	178749	REGULATOR ASSEMBLY, 120 PSI **(BEFORE 01/23/2018)**	1
9	212347	REGULATOR TIS W/CONN LEAD ASSY **(AFTER 01/23/2018)** **(KIT INCLUDES LOW-PRESSURE SWITCH AND LEAD ASSEMBLY)**	1
10	182086	VENT TUBE ASSEMBLY	1
11	1-833-010001	TUBING NYLON 1/4 OD **(BY THE FOOT)** **(1 AXLE, REQ 25') (2 AXLE, REQ 45') (3 AXLE, REQ 65')** **(ITEM 17, INCLUDES 5.25')**	- -
12	1-297-010010-01	FITTING,AIR,UNION TEE 1/4 **(INCLUDED WITH ITEM 17)**	1
13	169832	DECAL LIGHT PRESSURE GUARD	1
14	178751	AIR TANK PLUMBING KIT **(INCLUDES PRESSURE PROTECT VALVE & HARDWARE)**	1
15	178752	LIGHT PRESSURE GUARD	1
16	178753	PRESSURE SWITCH PRESSURE GUARD	1
17	- - - - -	AXLE PLUMBING KIT **(INCLUDES ITEMS 11-12 & AXLE FITTINGS)**	1
18	- - - - -	CHAFE GUARD **(BY THE FOOT)** **(1 AXLE, REQ 8') (2 AXLE, REQ 16') (3 AXLE, REQ 25')**	- -
19	- - - - -	LARGE WIRE TIES **(1 AXLE, REQ 2) (2 AXLE, REQ 4) (3 AXLE, REQ 6)**	- -
20	178750	WARNING LIGHT KIT **(BEFORE 04/01/2016)**	1
20	183413	LIGHT,WHT LED .75 CL/MK GROTE **(AFTER 04/01/2016)**	1

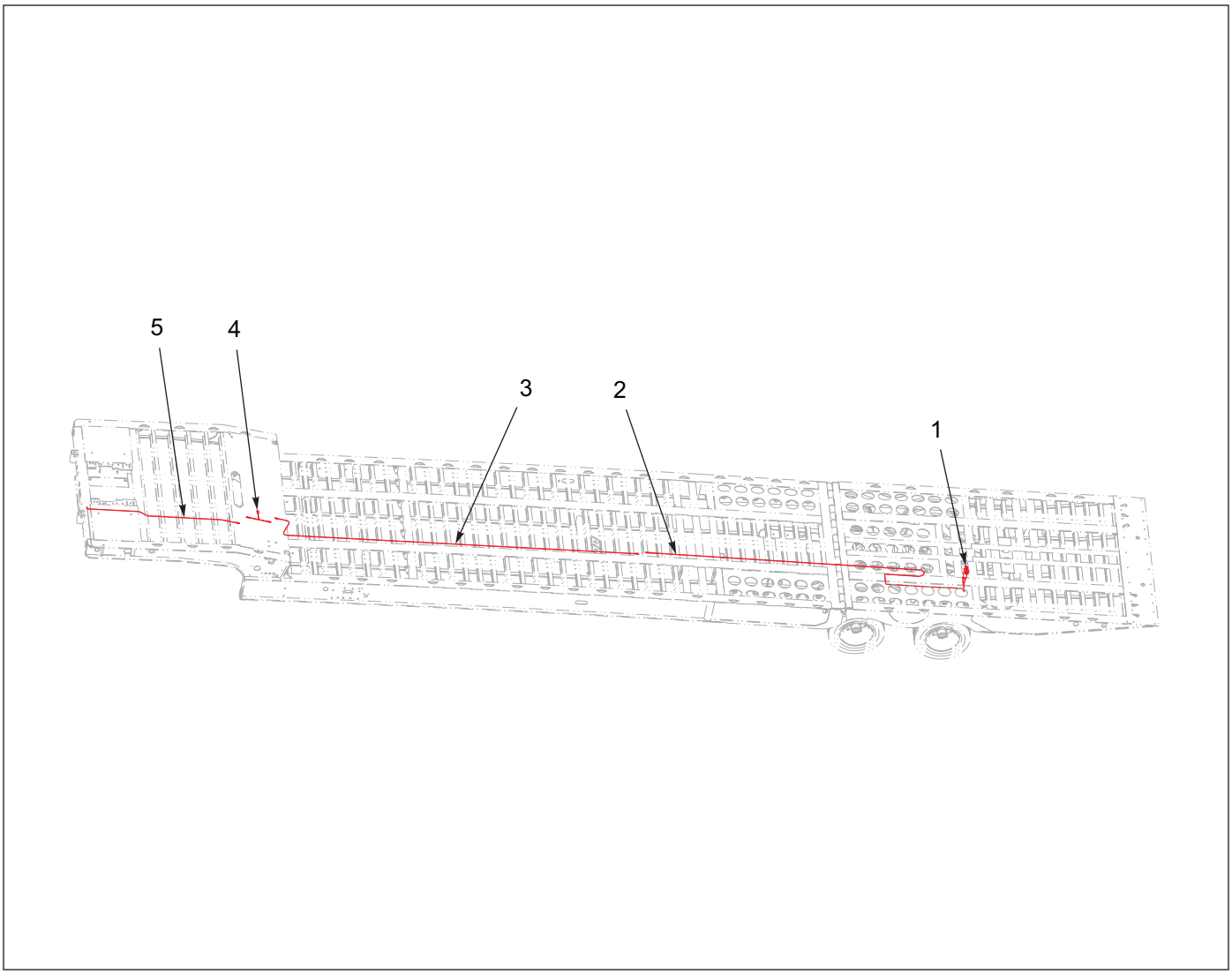


Figure 1-50: Tire Inflation System Harness Kit

Tire Inflation System Harness Kit

ITEM	PART NO.	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	
1	157702	TIRE INFLATION SYSTEM, 2 AXLE	REF
2	176476	HARNESS, TIRE INFLATION LD25S	1
3	176477	HARNESS, TIRE INFLATION LD30	1
4	176478	HARNESS, TIRE INFLATION LDPWR	1
5	176479	HARNESS, TIRE INFLATION LD15L	1

Table provided for general use.

NOTES:

Air Brakes & Suspension

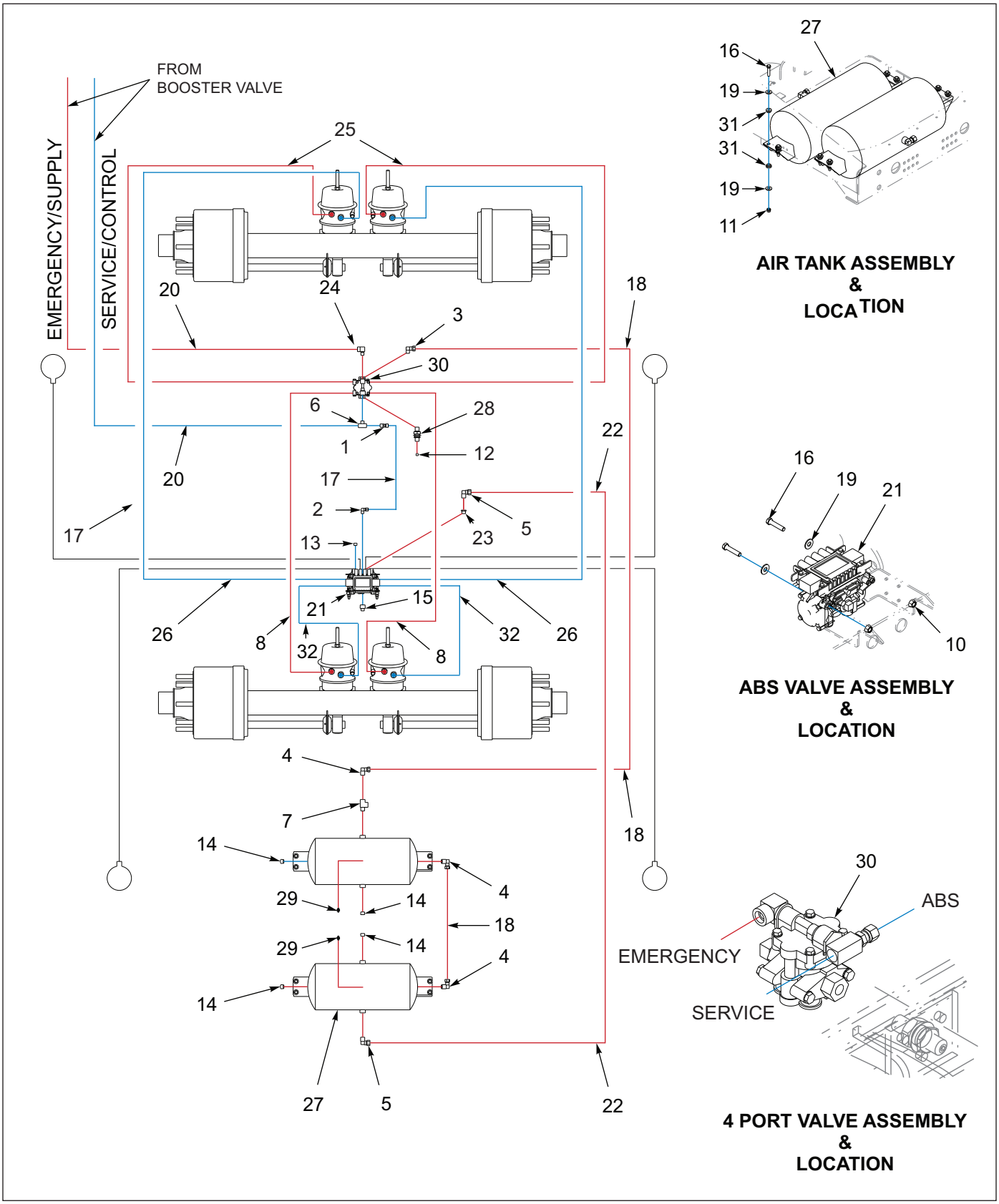


Figure 1-51: Spring Air Brake System w/ ABS - 425 & 440

Spring Air Brake System w/ ABS - 425 & 440

ITEM	PART NO.	DESCRIPTION	QTY.
	127579	AIR SYSTEM U/C, ABS **(425) (REF ONLY)**	- -
	174137	AIR SYSTEM U/C, ABS **(440 AQUA PACKAGE) (REF ONLY)**	- -
1	1-297-010007-12	FITTING AIR	1
2	1-297-010008-18	FITTING, AIR 90	1
3	1-297-010008-23	FITTING, AIR 90	1
4	1-297-010008-24	FITTING, AIR 90	3
5	1-297-010008-26	FITTING, AIR 90	2
6	1-297-010017-03	FITTING AIR M/BR TEE	1
7	1-297-010018-04	FITTING, BR TEE **(127879)**	REF
8	1-384-010038056	HOSE, AIR 56”	2
9	1-394-010001	HOSE ABRASION SLEEVE **(NOT SHOWN)**	2
10	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
11	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
12	1-560-010002-02	PIPE PLUG 1/4	1
13	1-560-010002-03	PIPE PLUG 3/8	2
14	1-560-010002-04	PIPE PLUG 1/2	4
15	1-560-010002-05	PIPE PLUG 3/4-14	1
16	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10
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	18
20	100949	HOSE AIR 3/8 X 222 W/ 3/8 ENDS	2
21	114584	BRAKE KIT, ABS 4S/2M **(127579) (SEE PAGE 1-86) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)**	1
21	114585	BRAKE KIT, ABS 2S/1M SGL **(174137) (SEE PAGE 1-86)**	1
22	117304	TUBING, NYLON 5/8	AR
23	118-2659-9	BUSHING 1/2 X 3/4	1
24	2089-6-6S	ADAPTER, 90	1
25	3-384-010020	HOSE, AIR 3/8 X 32	2
26	3-384-010031	HOSE, AIR 3/8 X 42	2
27	3-780-010002	TANK AIR	2
28	55B61	FRAME UNION	1
29	56D4	AIR TANK DRAIN COCK **(127579)**	2
29	757-363	VALVE W/ 4’ CABLE PULL DRAIN **(174137)**	2
30	758-181	VALVE RELAY EMERGENCY **(127579)**	1
30	174241	VALVE, 4 PORT **(174137)**	1
31	805-2	STEP BUSHING	16
32	3-384-010031	HOSE, AIR 3/8 X 42 **(127579)**	2
33	103861	SENSOR, EXT CABLE 3M (10FT)	2
34	174143	KIT, SNORKEL 2S/1M ABS VALVE **(174137)**	1

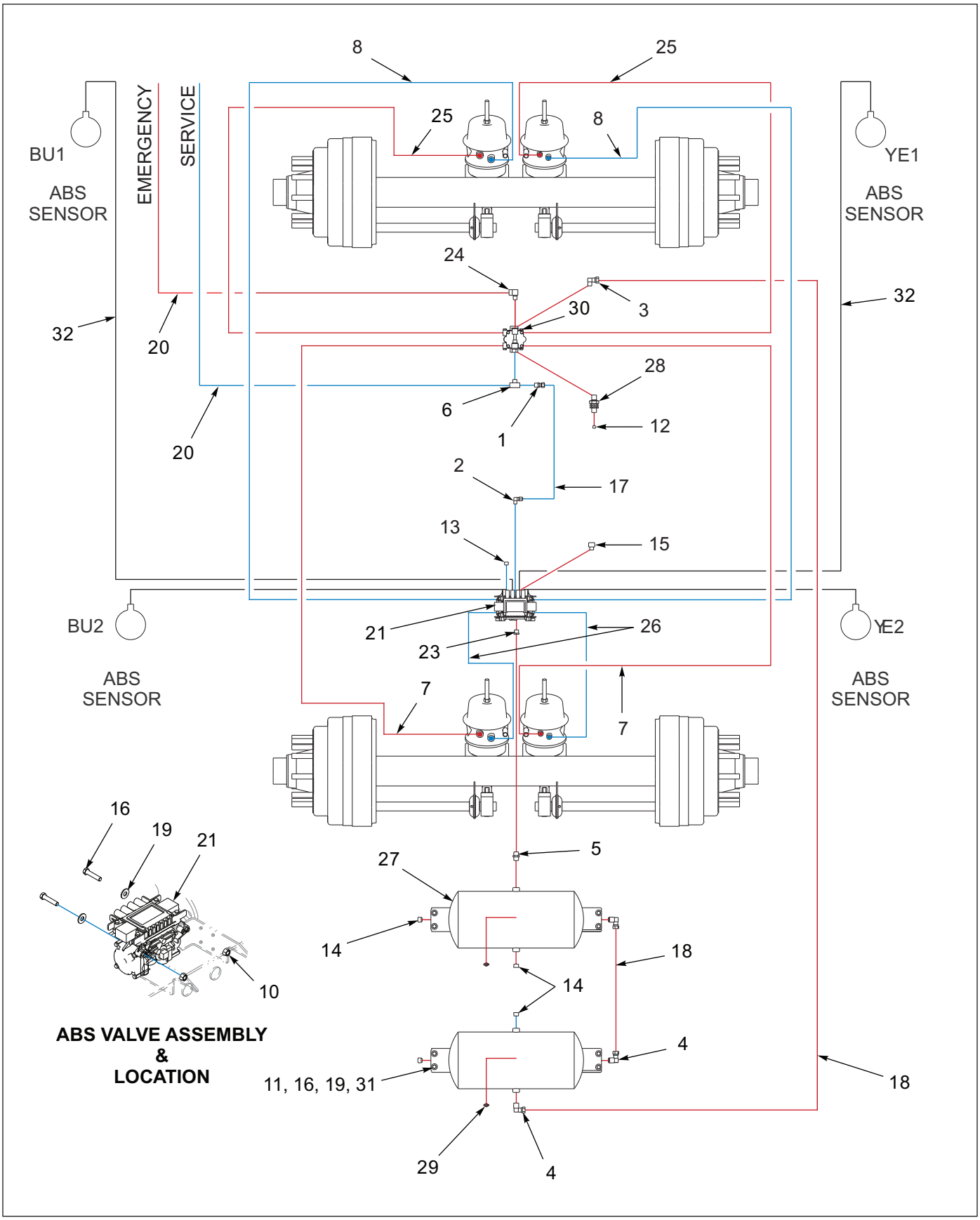


Figure 1-52: Spring Air Brake System w/ ABS - 440CA Big Brakes

Spring Air Brake System w/ ABS - 440CA Big Brakes

ITEM	PART NO.	DESCRIPTION	QTY.
	160708	AIR SYSTEM, U/C, ABS CA BB **(440)**	- -
1	1-297-010007-12	FITTING AIR	1
2	1-297-010008-18	FITTING, AIR 90	1
3	1-297-010008-23	FITTING, AIR 90	1
4	1-297-010008-24	FITTING, AIR 90	2
5	2083-8-8S	NIPPLE	1
6	1-297-010017-03	FITTING AIR M/BR TEE	1
7	1-384-010038060	HOSE, AIR 3/8 X 60	2
8	103738	HOSE, AIR 3/8 X 100	2
9	1-394-010001	HOSE ABRASION SLEEVE X 2 **(NOT SHOWN)**	2
10	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
11	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
12	1-560-010002-02	PIPE PLUG 1/4	1
13	1-560-010002-03	PIPE PLUG 3/8	2
14	1-560-010002-04	PIPE PLUG 1/2	4
15	1-560-010002-05	PIPE PLUG 3/4-14	1
16	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10
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	18
20	100949	HOSE AIR 3/8 X 222 W/ 3/8 ENDS	2
21	114584	BRAKE KIT, ABS 4S/2M **(127579) (SEE PAGE 1-86) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)**	1
22	117304	TUBING, NYLON 5/8 **(NOT SHOWN)**	AR
23	118-2659-9	BUSHING 1/2 X 3/4	1
24	2089-6-6S	ADAPTER, 90	1
25	3-384-010020	HOSE, AIR 3/8 X 32	2
26	3-384-010031	HOSE, AIR 3/8 X 42	2
27	3-780-010002	TANK AIR	2
28	55B61	FRAME UNION	1
29	56D4	AIR TANK DRAIN COCK	2
30	758-181	VALVE RELAY EMERGENCY	1
31	805-2	STEP BUSHING	16
32	103861	SENSOR, EXT CABLE 3M **(10FT) (160708)**	2

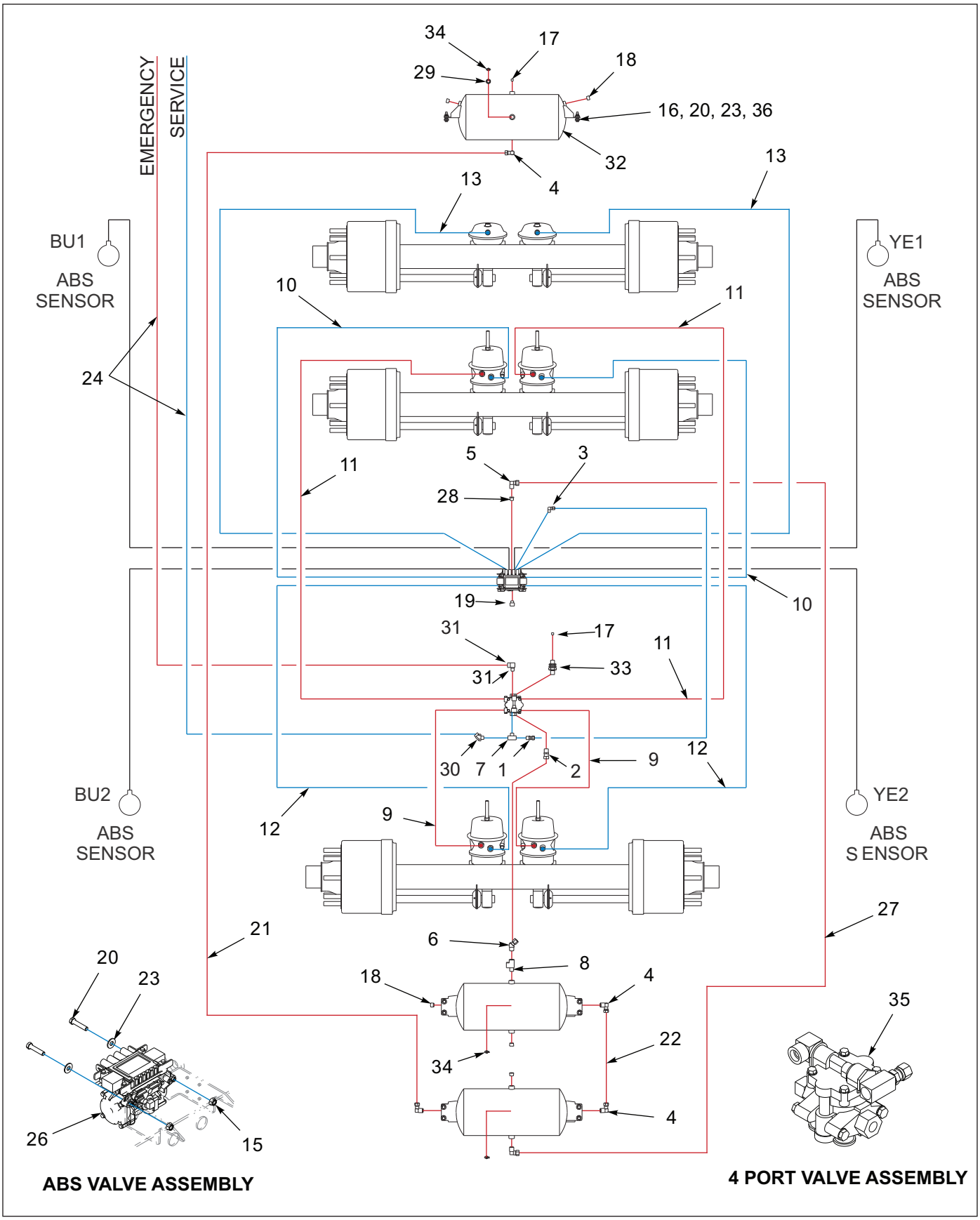


Figure 1-53: Spring Air Brake System w/ ABS - 455

Spring Air Brake System w/ ABS - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	150151	AIR SYSTEM U/C, ABS **(455)**	- -
1	1-297-010007-12	FITTING, AIR	1
2	1-297-010007-15	FITTING, AIR	1
3	1-297-010008-18	FITTING, AIR 90	1
4	1-297-010008-24	FITTING, AIR 90	4
5	1-297-010008-26	FITTING, AIR 90	2
6	1-297-010013-16	FITTING, AIR 45	1
7	1-297-010017-03	FITTING, AIR M/BR TEE	1
8	1-297-010018-04	FITTING, BR TEE	1
9	1-384-010038024	HOSE, AIR 3/8 X 24	2
10	1-384-010038038	HOSE, AIR 3/8 X 38	2
11	1-384-010038060	HOSE AIR 3/8 X 60	2
12	1-384-010038076	HOSE AIR 3/8 X 76	2
13	1-384-010038084	HOSE, AIR 3/8 X 84”	2
14	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	2
15	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
16	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
17	1-560-010002-02	PIPE PLUG 1/4	2
18	1-560-010002-04	PIPE PLUG 1/2	5
19	1-560-010002-05	PIPE PLUG 3/4-14	1
20	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	14
21	1-833-010002	TUBING, NYLON 3/8	AR
22	1-833-010003	TUBING, NYLON 1/2	AR
23	1-861-010032-11	WASHER, FLAT 3/8W	26
24	100949	HOSE, AIR 3/8 X 222 W/ 3/8 ENDS	2
25	103817	CLAMP, HOSE **(NOT SHOWN)**	1
26	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-86)**	1
27	117304	TUBING, NYLON 5/8	AR
28	118-2659-9	BUSHING 1/2 X 3/4	1
29	2081-8-4S	REDUCER PIPE	1
30	2088-6-6S	ADAPTER, 45	1
31	2089-6-6S	ADAPTER, 90	1
32	3-780-010002	TANK, AIR	3
33	55B61	FRAME UNION	1
34	56D4	AIR TANK DRAIN COCK	3
35	758-181	VALVE RELAY EMERGENCY	1
36	805-2	STEP BUSHING	24

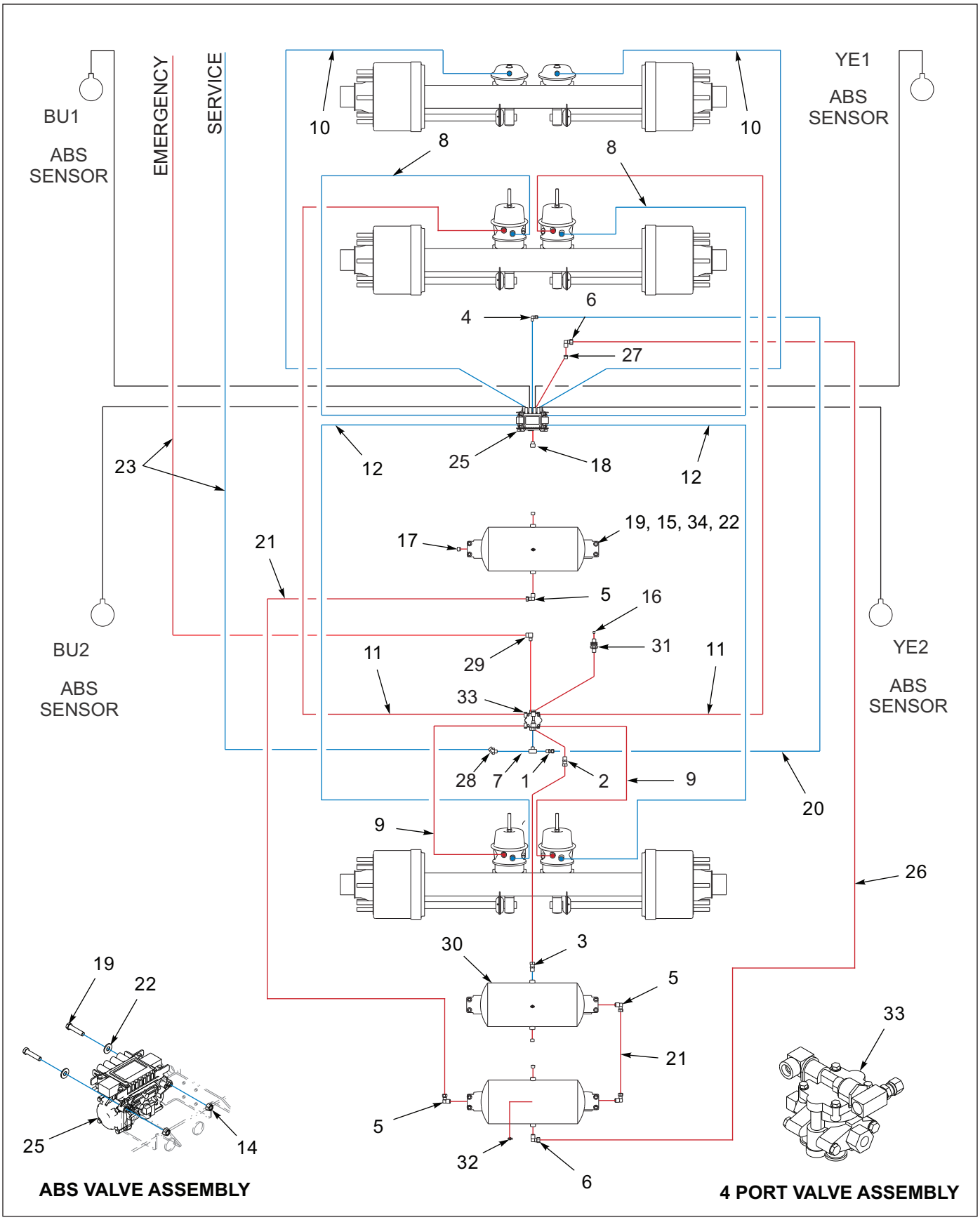


Figure 1-54: Spring Air Brake System w/ ABS - 455 Narrow Spread

Spring Air Brake System w/ ABS - 455 Narrow Spread

ITEM	PART NO.	DESCRIPTION	QTY.
	103816	AIR SYSTEM U/C, ABS **(455)**	- -
1	1-297-010007-12	FITTING, AIR	1
2	1-297-010007-15	FITTING, AIR	1
3	1-297-010007-16	FITTING, AIR	1
4	1-297-010008-18	FITTING, AIR 90	1
5	1-297-010008-24	FITTING, AIR 90	4
6	1-297-010008-26	FITTING, AIR 90	2
7	1-297-010017-03	FITTING, AIR M/BR TEE	1
8	1-384-010038024	HOSE, AIR 3/8 X 24	2
9	1-384-010038038	HOSE, AIR 3/8 X 38	2
10	1-384-010038060	HOSE AIR 3/8 X 60	2
11	1-384-010038076	HOSE AIR 3/8 X 76	2
12	1-384-010038084	HOSE, AIR 3/8 X 84	2
13	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	2
14	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
15	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
16	1-560-010002-02	PIPE PLUG 1/4	2
17	1-560-010002-04	PIPE PLUG 1/2	5
18	1-560-010002-05	PIPE PLUG 3/4-14	1
19	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	14
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	26
23	100949	HOSE, AIR 3/8 X 222 W/ 3/8 ENDS	2
24	103817	CLAMP, HOSE **(NOT SHOWN)**	1
25	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-86)**	1
26	117304	TUBING, NYLON 5/8	AR
27	118-2659-9	BUSHING 1/2 X 3/4	1
28	2088-6-6S	ADAPTER, 45	1
29	2089-6-6S	ADAPTER, 90	1
30	3-780-010002	TANK, AIR	3
31	55B61	FRAME UNION	1
32	56D4	AIR TANK DRAIN COCK	3
33	758-181	VALVE RELAY EMERGENCY	1
34	805-2	STEP BUSHING	24

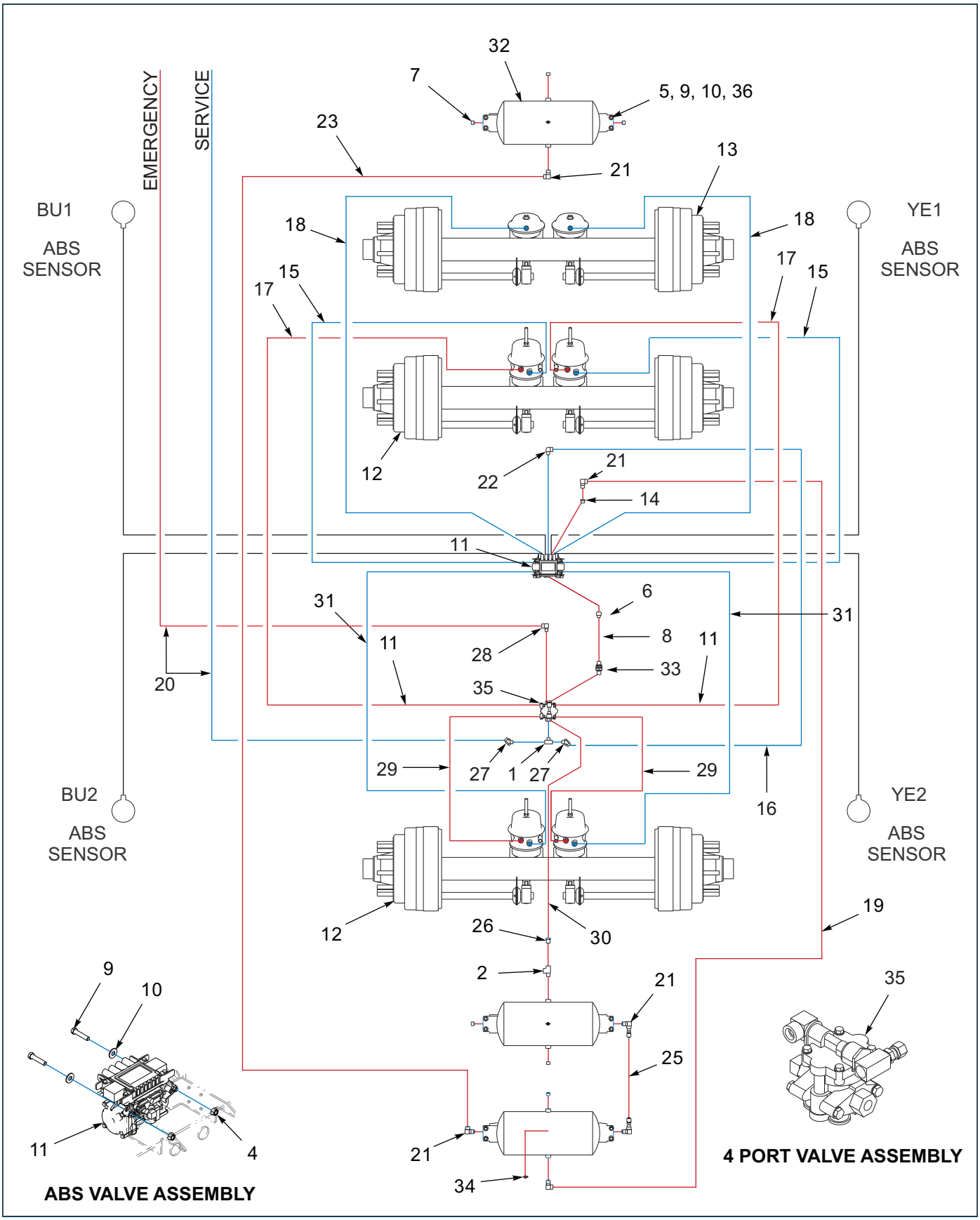


Figure 1-55: Spring Air Brake System w/ ABS Arctic - 455

Spring Air Brake System w/ ABS Arctic - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	139932	AIR SYSTEM U/C, ABS ARCTIC **(455)**	- -
1	1-297-010017-03	FITTING, AIR M/BR TEE	1
2	1-297-010018-04	FITTING BRASS PIPE STREET TEE	1
3	1-394-010001	HOSE, ABRASION SLEEVE X 2**(NOT SHOWN)**	2
4	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
5	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
6	1-560-010002-02	PIPE PLUG 1/4	1
7	1-560-010002-04	PIPE PLUG 1/2	6
8	1-560-010002-05	PIPE PLUG 3/4-14	1
9	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	14
10	1-861-010032-11	WASHER, FLAT 3/8W	26
11	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-86)**	1
12	115738	AXLE WELDMENT 2516 SPG 69 31	REF
13	115740	AXLE WELDMENT 2516 SER 69 31	REF
14	118-2659-9	BUSHING 1/2 X 3/4	1
15	126710	HOSE, AIR 3/8 X 38	2
16	126711	HOSE, AIR 3/8 X 64	1
17	126712	HOSE, AIR 3/8 X 76	2
18	126713	HOSE, AIR 3/8 X 84 ARCTIC	2
19	126715	HOSE, AIR 3/8 X 124	1
20	126716	HOSE, AIR 3/8 X 222 ARCTIC	2
21	126718	ADAPTER, 90	6
22	126719	ADAPTER, 90	1
23	139944	HOSE, AIR 3/8 X 200 ARCTIC	1
24	145515	HOSE END **(NOT SHOWN)**	2
25	169932	HOSE, AIR 3/8 ARCTIC	1
26	2081-8-6S	REDUCER	1
27	2088-6-6S	ADAPTER, 45	2
28	2089-6-6S	ADAPTER, 90	1
29	3-384-010049024	HOSE, AIR 3/8 X 24	2
30	3-384-010049032	HOSE, AIR 3/8 X 32	1
31	3-384-010049060	HOSE, AIR 3/8 X 60	2
32	3-780-010002	TANK, AIR	3
33	55B61	FRAME UNION	1
34	56D4	AIR TANK DRAIN COCK	3
35	758-181	VALVE RELAY EMERGENCY	1
36	805-2	STEP BUSHING	24

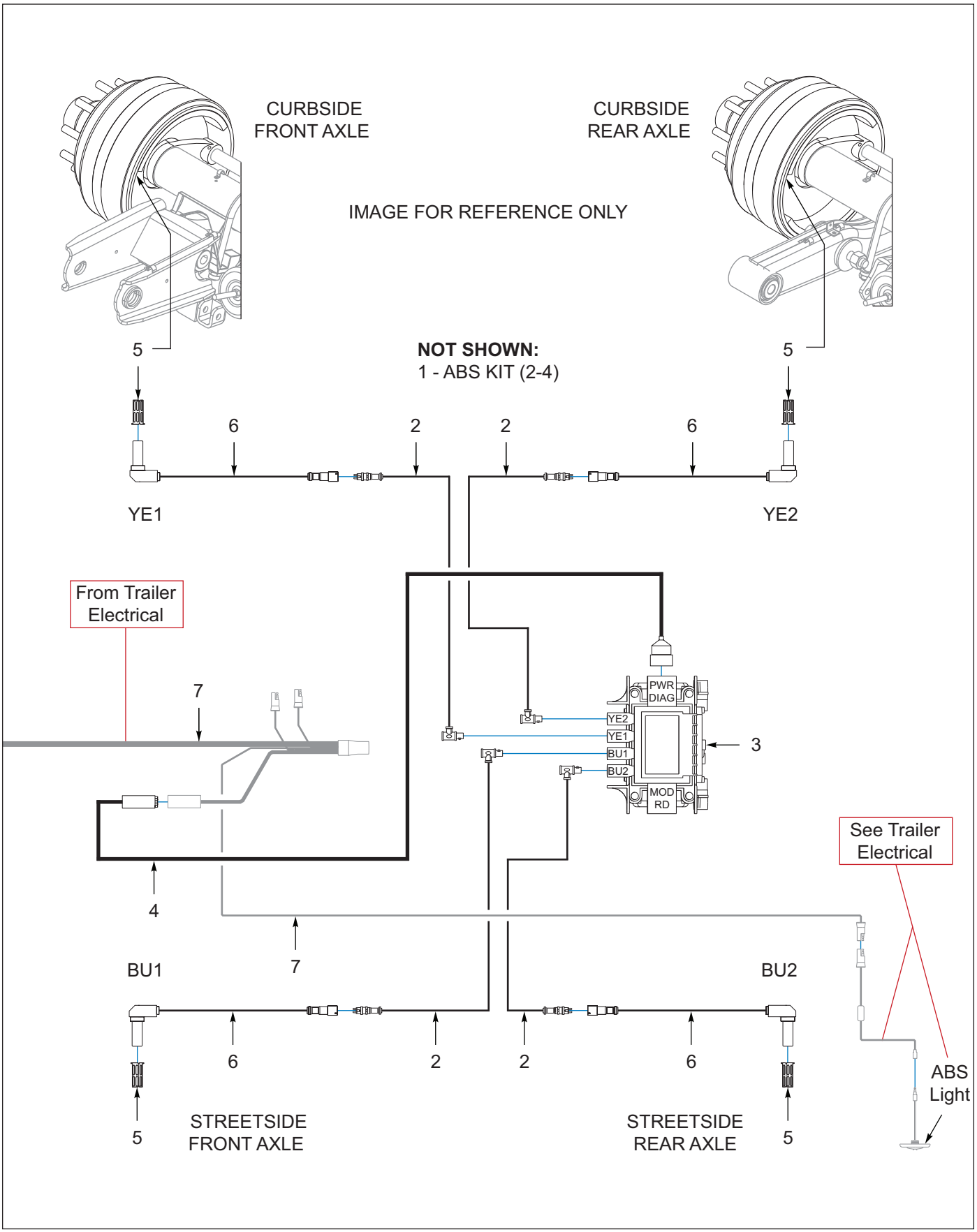


Figure 1-56: ABS Brake Kit

ABS Brake Kit

ITEM	PART NO.	DESCRIPTION	QTY.
1	114584	ABS KIT WABCO 4S/2M TAB **(2 AXLE)** **(INCLUDES ITEMS 2 - 101848, 3-4)** **(BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)**	- -
1	114586	ABS KIT WABCO 4S/2MTRI/SPREAD **(2 & 3 AXLE)** **(INCLUDES ITEMS 2 - 103861, 3-4)**	1
2	101848	SENSOR EXT. CABLE,1.78M,ABS **(2 AXLE - 70 INCH)** **(BEFORE 12/08/2021 - AFTER OBSOLETE USE 103861)** **(INCLUDED WITH ITEM 1, 114584)**	4
2	103861	SENSOR EXT CABLE-3M (10FT) **(2 & 3 AXLE - 118 INCH)** **(INCLUDED WITH ITEM 1, 114586)**	4
3	114588	ECU/VALVE ASSEMBLY 4S/2M **(INCLUDED WITH ITEM 1 - 114584, 114586)**	1
4	147464	POWER CABLE 4.0M **(13' FOOT)** **(INCLUDED WITH ITEM 1 - 114584, 114586)**	1
5	101849	ABS SENSOR SPRING CLIP	4
6	101847	ABS SENSOR CABLE-.4M (1FT) **(DRUM BRAKES) (1 FOOT)**	4
6	251219	ABS SNSR 0.5M STRAIGHT HALDEX **(DISC BRAKES) (1.5 FOOT)**	4
7	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	1

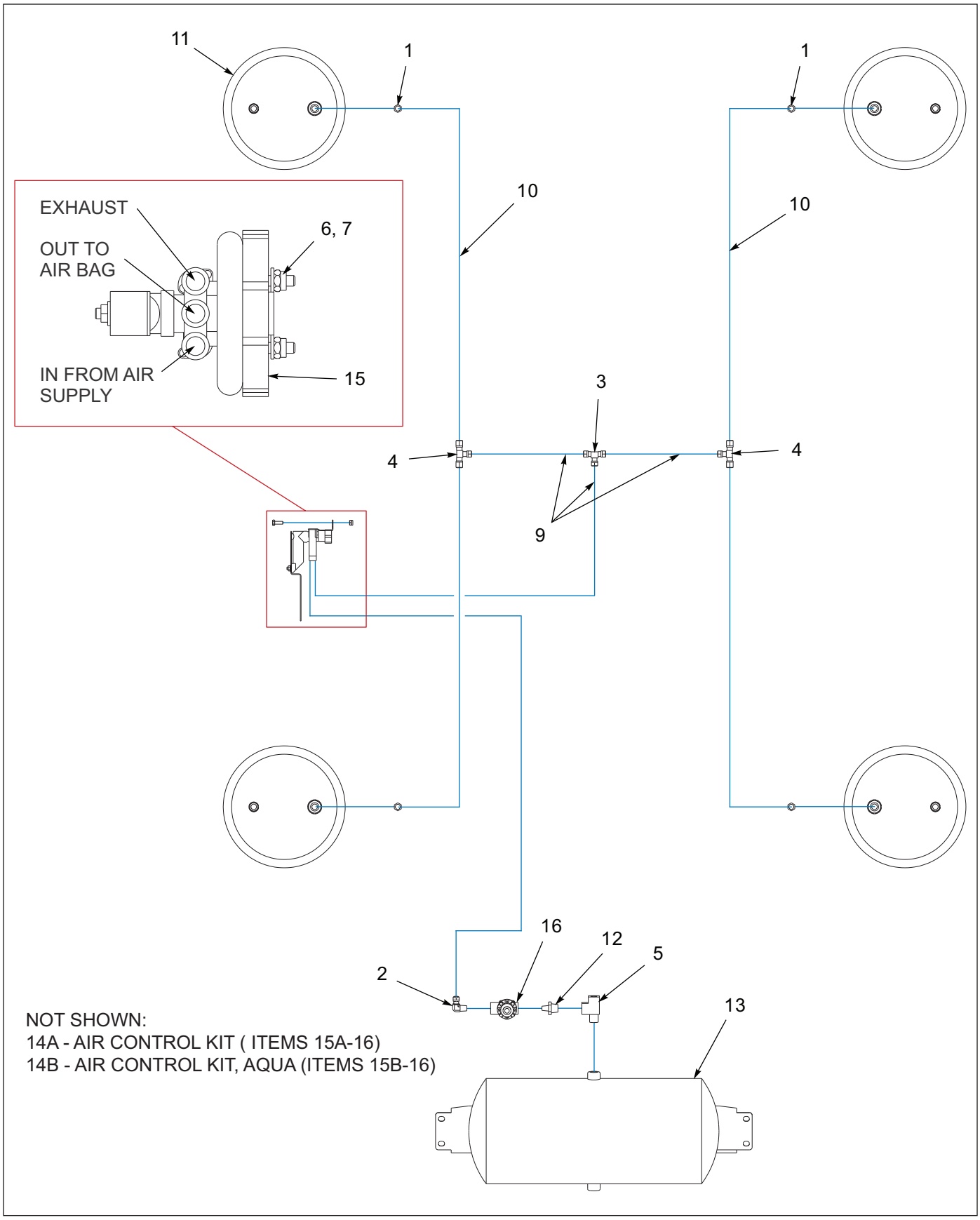


Figure 1-57: Air Ride Suspension Air System - 425 & 440

Air Ride Suspension Air System - 425 & 440

ITEM	PART NO.	DESCRIPTION	QTY.
	103082	SUSPENSION, RLU AIR RIDE **(TANDEM)**	- -
	173877	SUSPENSION, RLU AIR RIDE AQUA **(TANDEM AQUA)**	- -
1	1-297-010007-11	FITTING AIR	4
2	1-297-010008-07	FITTING AIR 90	1
3	1-297-010010-01	FITTING AIR UNION TEE	1
4	1-297-010010-04	FITTING AIR UNION TEE	2
5	1-297-010018-04	FITTING BRASS PIPE STREET TEE	1
6	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB **(INCLUDED WITH 14A-14B)**	2
7	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5 **(7A INCLUDED WITH ITEM 14A)**	2
7	1-654-010047-09	SCREW,HX CP,1/4-20UNCX1-3/4G5 **(7B INCLUDED WITH ITEM 14B)**	2
8	1-796-010004-02	TIE STRAP PLASTIC **(NOT SHOWN)**	15
9	1-833-010001	TUBING NYLON 1/4 OD	AR
10	1-833-010002	TUBING NYLON 3/8 OD	AR
11	102363	SUSPENSION, ADJ RLU-228-3.5**(SEE PAGE 1-94)**	REF
12	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
13	3-780-010002	TANK AIR	REF
14	102732	AIR CONTROL KIT NEWAY **(14A INCLUDES ITEMS 6-7A,15A, 16) (SEE PAGE 1-92)**	1
14	173876	AIR CONTROL KIT **(AQUA) (14B INCLUDES ITEMS 6-7B, 15B, 16) (SEE PAGE 1-92)**	1
15	900 54 007	HEIGHT CONTROL VALVE N **(FOR 1/4" AIR LINE) (15A INCLUDED WITH ITEM 14A) (SEE PAGE 1-92)**	REF
15	173875	HEIGHT CONTROL VALVE **(AQUA) (FOR 1/4" AIR LINE) (15B INCLUDED WITH 14B) (SEE PAGE 1-92)**	REF
16	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692) (INCLUDED WITH ITEMS 14A-14B)**	REF

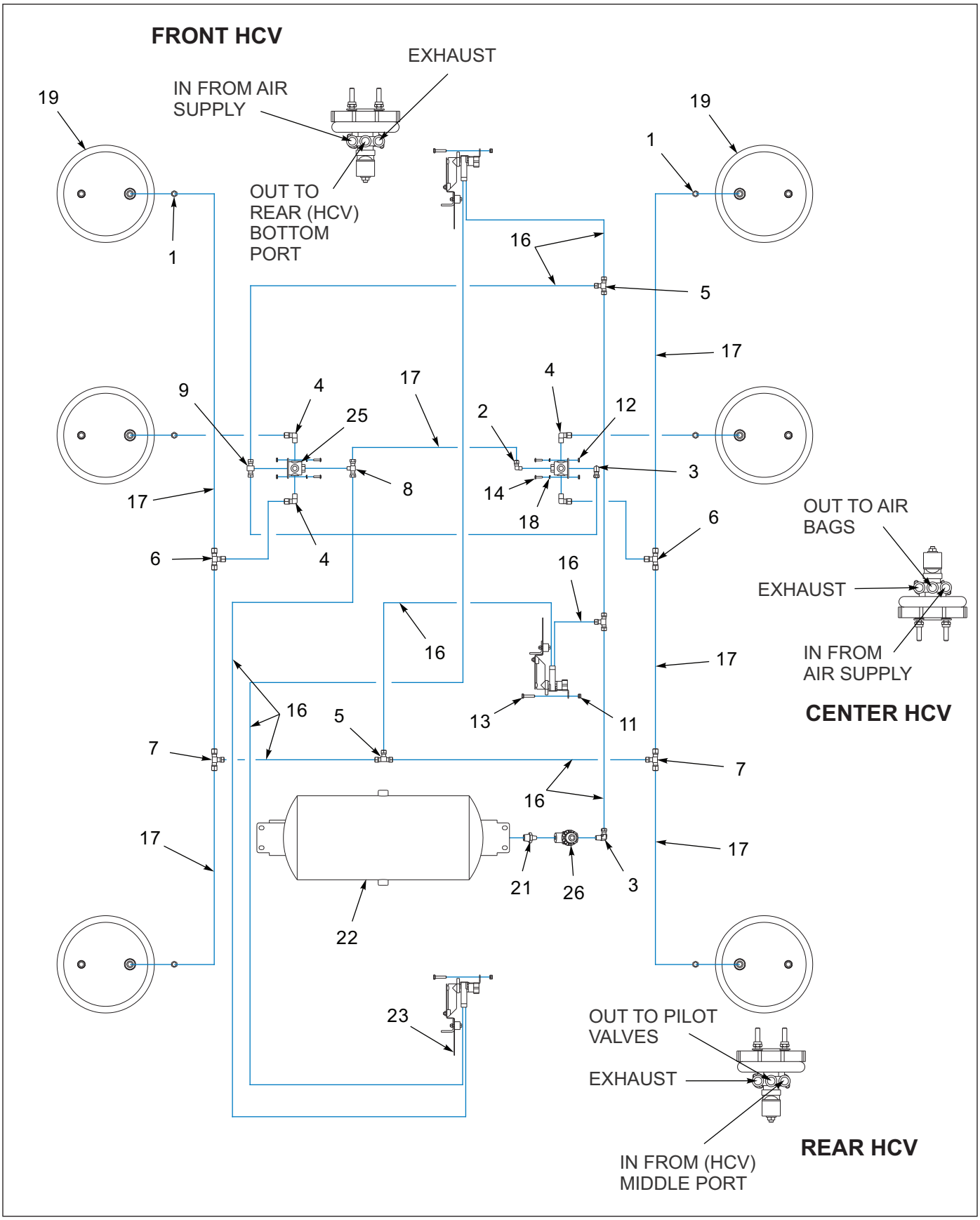


Figure 1-58: Air Ride Suspension Air System - 455

Air Ride Suspension Air System - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	103084	AIR RIDE, AIR SYSTEM **(TRIPLE)**	- -
1	1-297-010007-11	FITTING AIR	6
2	1-297-010008-05	FITTING AIR 90	1
3	1-297-010008-07	FITTING AIR 90	2
4	1-297-010008-18	FITTING AIR 90	4
5	1-297-010010-01	FITTING AIR UNION TEE	3
6	1-297-010010-03	FITTING AIR UNION TEE 3/8	2
7	1-297-010010-04	FITTING AIR UNION TEE	2
8	1-297-010015-02	FITTING AIR BRANCH TEE	1
9	1-297-010015-03	FITTING AIR BRANCH TEE	1
11	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	6
12	1-512-010007-03	NUT, HEX 10-24	8
13	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
14	1-656-010003051	SCREW RH HD MACH #10-24 X 3/4	8
15	1-796-010004-02	TIE STRAP PLASTIC **(NOT SHOWN)**	15
16	1-833-010001	TUBING NYLON 1/4 OD	AR
17	1-833-010002	TUBING NYLON 3/8 OD	AR
18	1-861-010034-07	WASHER, SPLIT LOCK #10	8
19	102363	SUSPENSION, ADJ RLU-228-3.5 **(SEE PAGE 1-94)**	REF
21	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
22	3-780-010002	TANK AIR	REF
23	3F843-010034	FI VALVE RIDE HEIGHT CONTROL **(SEE PAGE 1-92)** **(INCLUDES VALVE & 18-1/4" LINKAGE)**	3
25	900-54-079	PILOT VALVE	2
26	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1

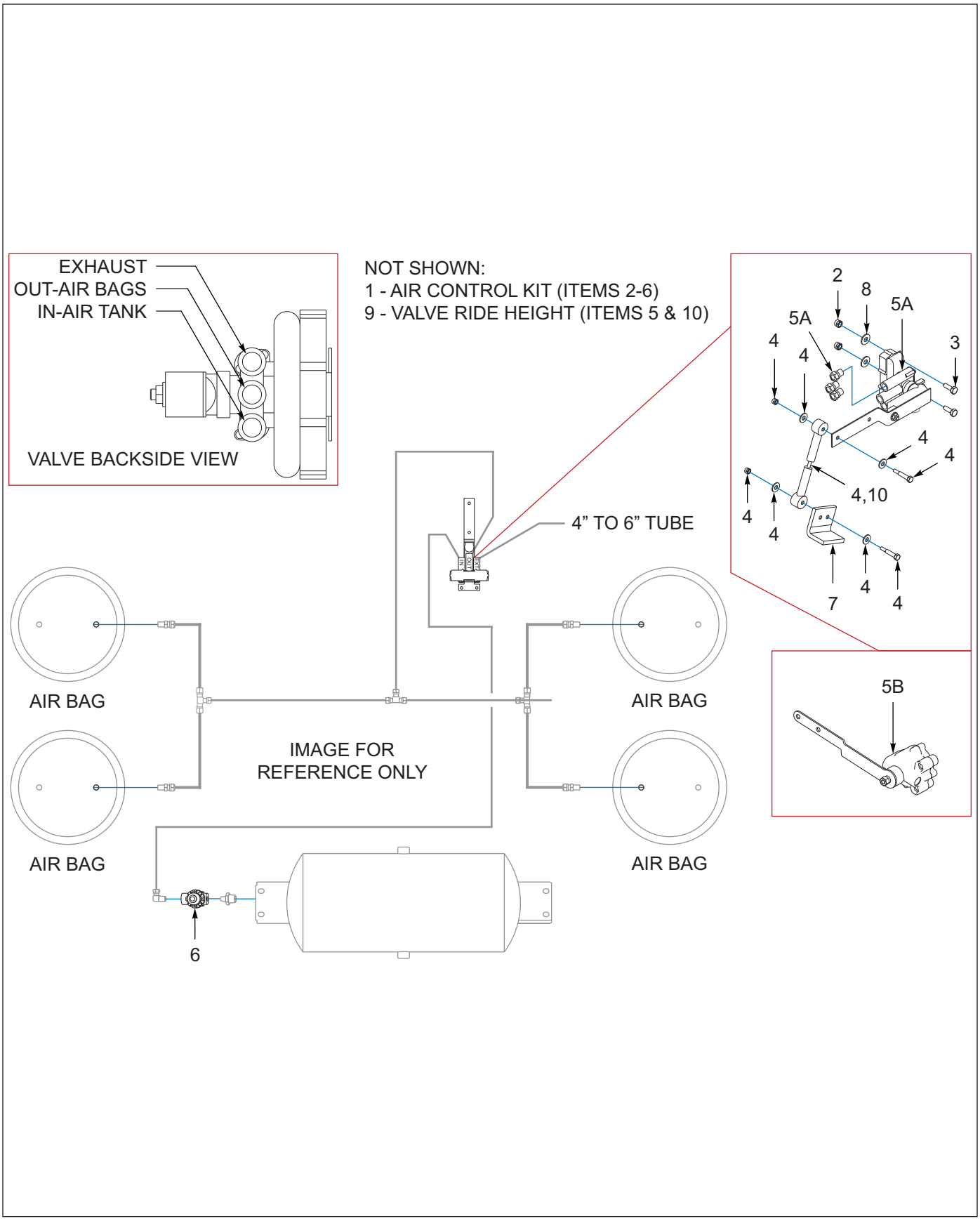
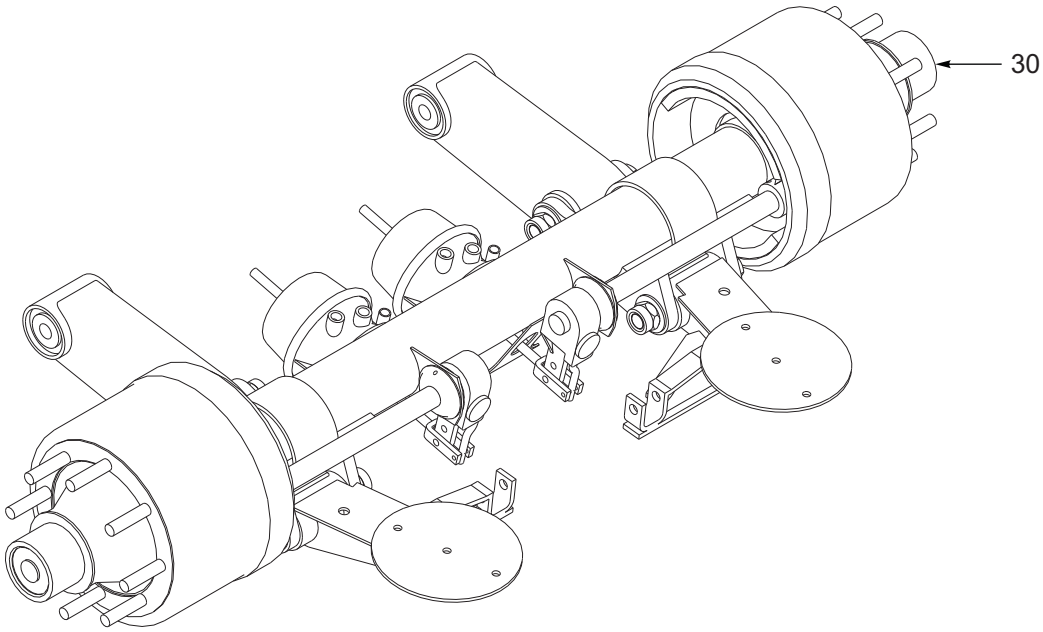


Figure 1-59: Air Control Kit

Air Control Kit

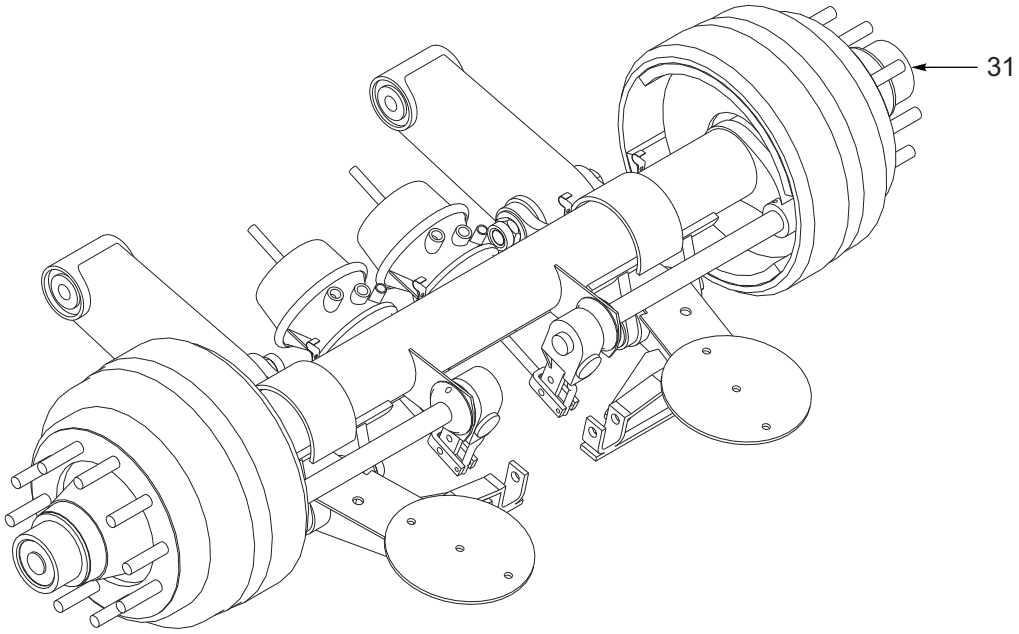
ITEM	PART NO.	DESCRIPTION	QTY.
1	102732	AIR CONTROL KIT **(1A INCLUDES ITEMS 2, 3A, 4, 5A, 6)**	1
1	173876	AIR CONTROL VALVE INSTALL KIT **(1B INCLUDES ITEMS 2, 3B, 4, 5B, 6**	1
2	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20 **(INCLUDED WITH ITEMS 1A-1B)**	2
3	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5 **(3A INCLUDED WITH ITEM 1A)**	2
3	1-654-010047-09	SCREW,HX CP,1/4-20UNCX1-3/4G5 **(3B INCLUDED WITH ITEM 1B)**	2
4	111021	KIT SRK-167 NEWAY 952-50-001 **(INCLUDED WITH ITEMS 1A-1B) (INCLUDES 14-1/2" LONG ROD)**	1
5	900 54 007	HEIGHT CONTROL VALVE N **(FOR 1/4" AIR LINE) (5A INCLUDED WITH ITEMS 1A, 9)**	1
5	173875	HEIGHT CONTROL VALVE **(AQUA) (FOR 1/4" AIR LINE) (5B INCLUDED WITH ITEM 1B)**	1
6	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692) (INCLUDED WITH ITEMS 1A-1B)**	1
7	238806	BRCKT LINK, RIDE HGHT **(USED ON 1A) (SOLD SEPERATELY - ADDED AFTER 10/26/2021)**	1
8	1-861-010032-07	WASHER,FLAT 1/4 ZP **(USED ON 1A) (SOLD SEPERATELY)**	2
9	3F843-010034	FI VALVE RIDE HEIGHT CONTROL **(INCLUDES ITEMS 5A, 10)**	1
10	481-00-225	LINKAGE (18-1/4" LONG ROD) **(CUT TO FIT) (INCLUDED WITH ITEM 9)**	1

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



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

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



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

Figure 1-60: Axle Suspension, RLU-228, 12.25 & 16.5 (1 of 2)

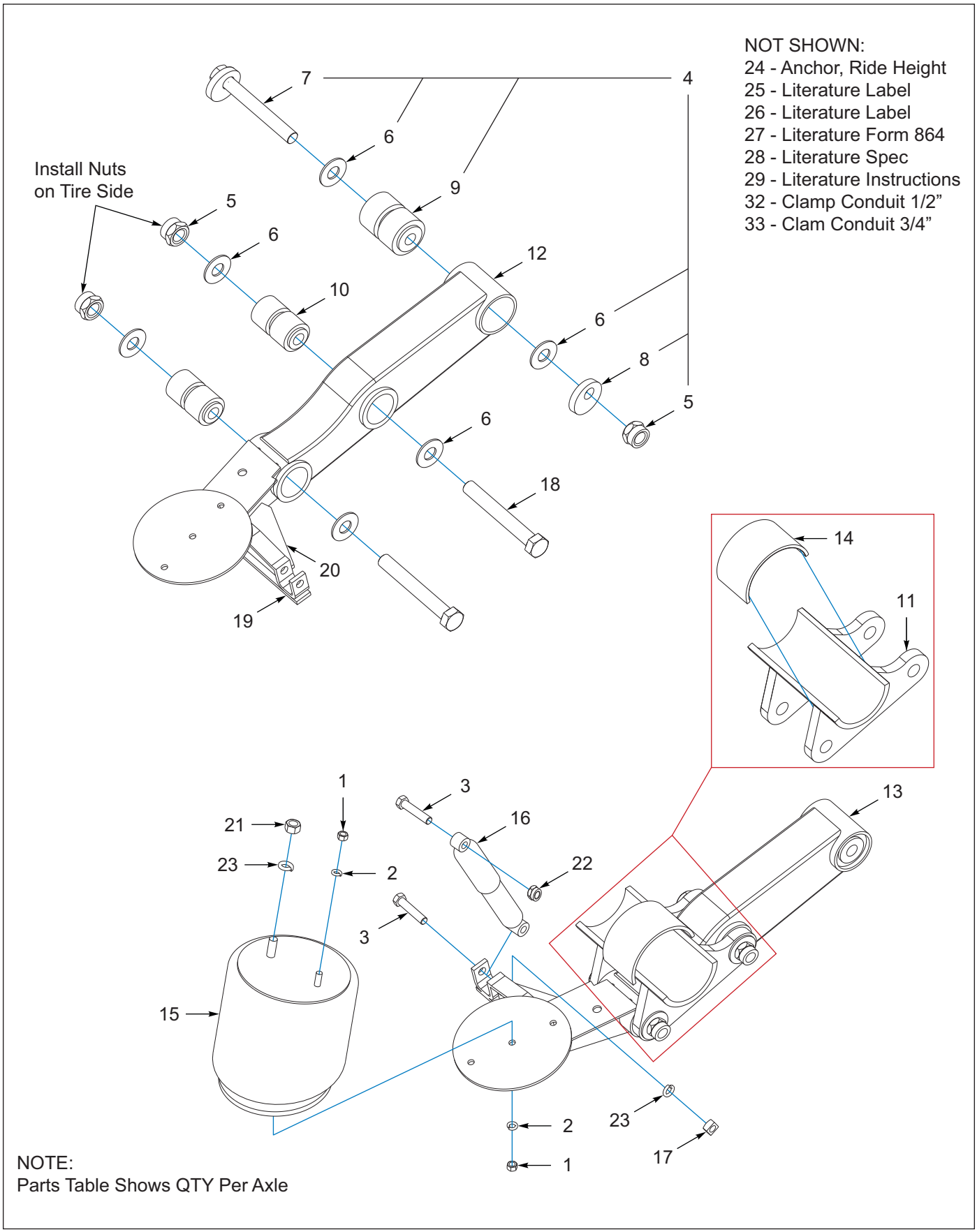


Figure 1-61: Axle Suspension, RLU-228, 12.25 & 16.5 (2 of 2)

Axle Suspension, RLU-228, 12.25 & 16.5

ITEM	PART NUMBER	DESCRIPTION	QTY
	102361	SUSPENSION,BEAM RLU-228 **(INCLUDES ITEMS 5-6, 9-14, 18-20)**	- -
	102363	SUSPENSION,ADJ RLU-228-3.5 **(12.25 X 7.5 BRAKES) (INCLUDES ITEMS 1-9, 15-17, 18-29)**	- -
	102364	SUSPENSION,ADJ RLU-228-5.5 **(16.5 X 7 BRAKES) (INCLUDES ITEMS 1-9, 15-17, 18-29)**	- -
1	1-512-010007-09	NUT, HEX 1/2-13 GR2 ZP	4
2	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
3	105408	SCREW HXCP,3/4-10X3-1/2 GR8	4
4	109533	ALIGNMENT BLOCK ASSY#48100294 **(KIT INCLUDES ITEMS 5-9)**	1
5	111008	NUT LOCK 1-1/8-7 NEWAY **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	6
6	111010	WASHER FLAT NEWAY 90036177 **(INCLUDED WITH ITEM 4, INCLUDES 2 EACH)**	12
7	129005	ALIGN BLOCK 90508019 **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
8	129006	ALIGN BLOCK NON-WELD 90008238 **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
9	900-08-139	BUSHING NEWAY AR-45 SUSPENSIO **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
10	111011	RUBBER BUSH NEWAY 90008149	4
11	111012	AXLE ADAPTER NEWAY 90001200	2
12	111013	BEAM LH NEWAY 90516600	1
13	111014	BEAM RH NEWAY 90516601	1
14	111015	SAFETY STRAP NEWAY 90025288	2
15	905-57-129	SPRING AIR BAG AR-45 **(12.25 X 7.5 BRAKES)**	2
15	111016	AIR SPRING NEWAY 90557159 **(16.5 X 7 BRAKES)**	2
16	900 45 040	SHOCK ABSORBER AR93 **(12.25 X 7.5 BRAKES) (SHOCK STRAP - SEE PAGE 1-98)**	2
16	111017	SHOCK NEWAY 90044642 **(16.5 X 7 BRAKES) (SHOCK STRAP - SEE PAGE 1-99)**	2
17	111022	NUT,SQ 3/4-10 NEWAY 93400367	2
18	111023	SCREW 1-1/8-7 NEWAY 93201051	4
19	126900	BRACKET BTM SHOCK ARU93	2
20	221602	GUSSET SHOCK LOWER TRL	2
21	934 00 149	HEX NUT 3/4-16 NEWAY AR-75-9	2
22	934-00-492	LOCK NUT 3/4-10	2
23	936 00 077	LOCK WASHER 3/4	6
24	111018	ANCHOR,RIDE HT NEWAY 90054038 **(NOT SHOWN)**	1
25	- - - - -	LITERATURE LABEL **(NOT SHOWN)**	1
26	- - - - -	LITERATURE LABEL **(NOT SHOWN)**	1
27	- - - - -	LITERATURE FORM 864 **(NOT SHOWN)**	1
28	- - - - -	LITERATURE SPEC **(NOT SHOWN)**	1
29	- - - - -	LITERATURE INSTRUCTIONS **(NOT SHOWN)**	1
30	- - - - -	AXLE & BEAM ASSEMBLY **(12.25 X 7.5 BRAKES) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
31	- - - - -	AXLE & BEAM ASSEMBLY **(16.5 X 7 BRAKES) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -

Axle Suspension, RLU-228, 12.25 & 16.5

ITEM	PART NUMBER	DESCRIPTION	QTY
32	3-181-010034-1	CLAMP CONDUIT STEEL 1/2 **(NOT SHOWN)**	6
33	3-181-010034-2	CLAMP CONDUIT STEEL 3/4 **(NOT SHOWN)**	4

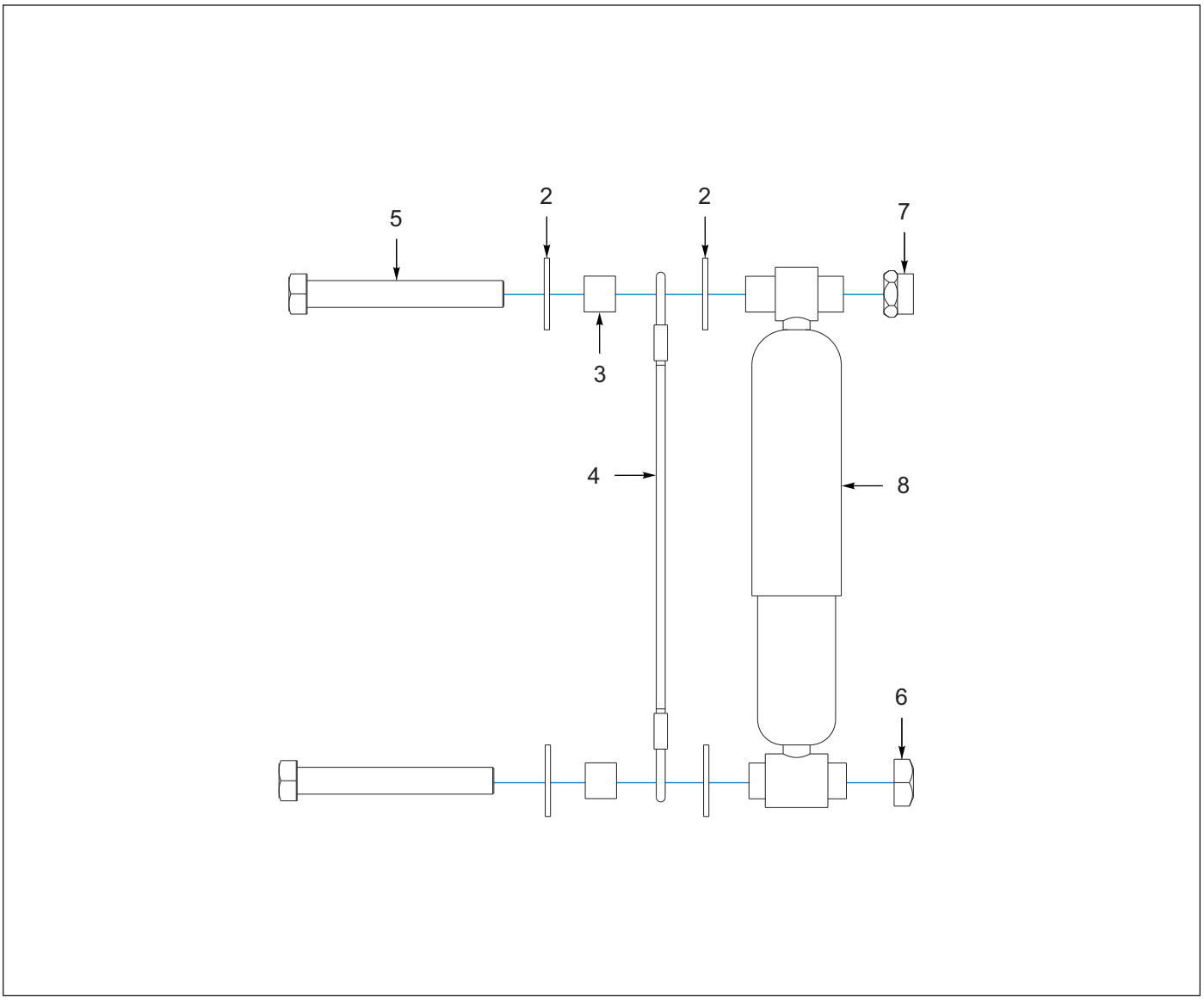


Figure 1-62: Shock Strap, Limit, RLU 228-3.5 (OPTION)

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

ITEM	PART NUMBER	DESCRIPTION	QTY
	141708	WIRE ROPE STRAPKIT RLU228-3.5 **(INCLUDES 2 KITS, ITEM 1)**	- -
	179103	WR STRAP KIT 2AX RLU228-3.5 **(INCLUDES 4 KITS, ITEM 1)**	- -
	141709	STRAP KIT INSL 3AX RLU228-3.5 **(INCLUDE 6 KITS, ITEM 1)**	- -
1	- - - - -	SHOCK STRAP LIMIT RLU228-3.5 **(1 KIT INCLUDES ITEMS 2-5)**	- -
2	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	4
3	170120	TUBE, RD 1 ODX .782 ID X 11/16	2
4	179107	WIRE ROPE STRAP, RLU 228-3.5	1
5	W908406-4	SCREW 3/4-10X4-1/2 HEX HD CAP	2
6	934-00-367	NUT SQ 3/4-10 **(SOLD SEPERATELY)**	1
7	934-00-492	LOCK NUT 3/4-10 **(SOLD SEPERATELY)**	1
8	900 45 040	SHOCK ABSORBER AR93 **(SOLD SEPERATELY)** **(FOR RLU 228-3.5 SUSPENSION)**	1

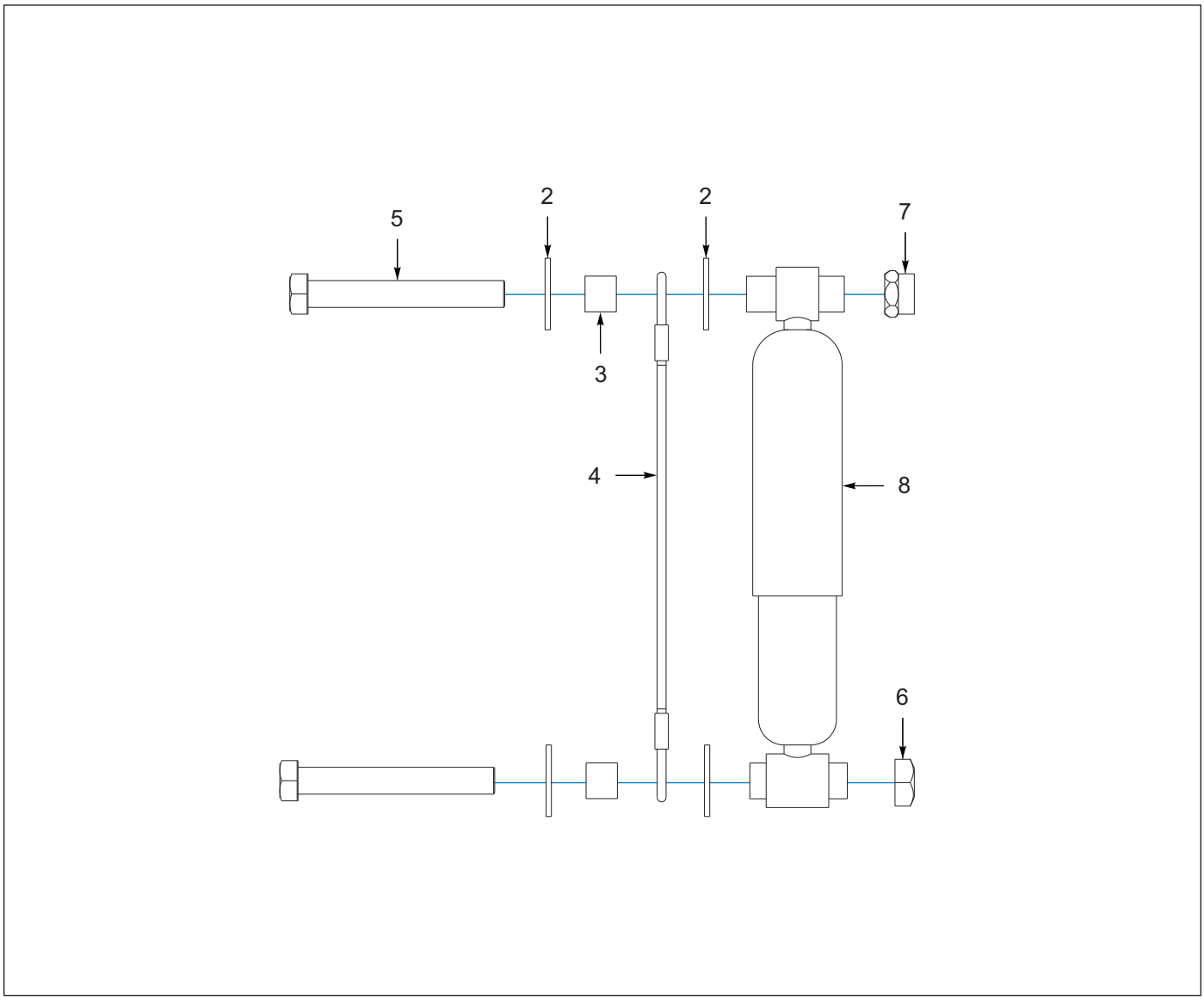
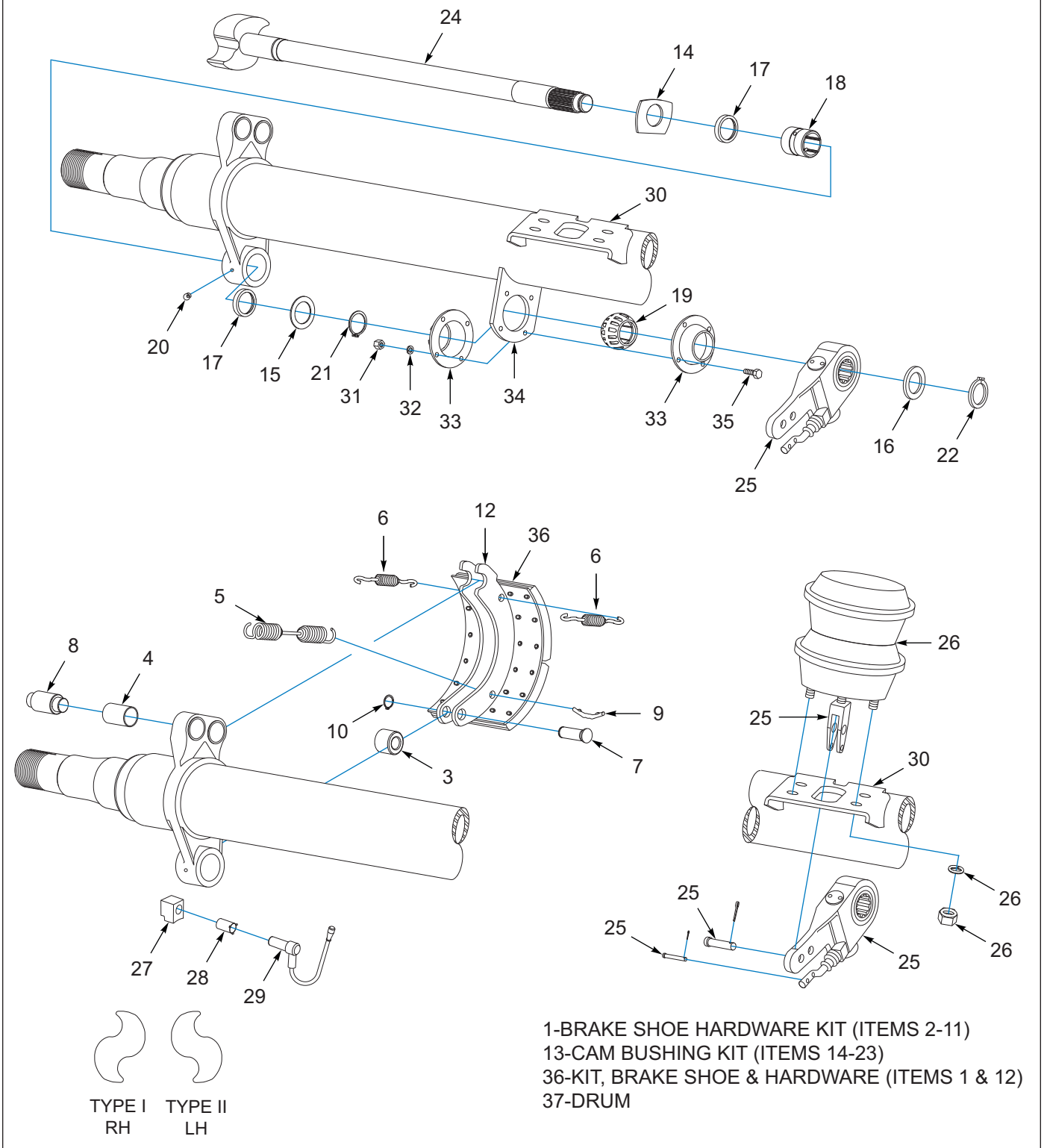


Figure 1-63: Shock Strap, Limit, RLU 228-5.5 (OPTION)

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

ITEM	PART NUMBER	DESCRIPTION	QTY
	127708	STRAP,SHOCK LMT,RLU250&228-5.5 **(INCLUDES 2 KITS, ITEM 1) (FOR 1 AXLE)**	- -
	163746	LIMIT STRAP SHCK 2AX RLU 228-5 **(INCLUDES 4 KITS, ITEM 1)**	- -
	162403	LIMIT STRAP SHOCK 3AX RLU228-5 **(INCLUDES 6 KITS, ITEM 1)**	- -
1	- - - - -	SHOCK STRAP LIMIT RLU228-5.5 **(1 KIT INCLUDES ITEMS 2-5)**	- -
2	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	4
3	170120	TUBE, RD 1 ODX .782 ID X 11/16	2
4	179108	WIRE ROPE STRAP, RLU 228-5.5	1
5	W908406-4	SCREW 3/4-10X4-1/2 HEX HD CAP	2
6	934-00-367	NUT SQ 3/4-10 **(SOLD SEPERATELY)**	1
7	934-00-492	LOCK NUT 3/4-10 **(SOLD SEPERATELY)**	1
8	111017	SHOCK NEWAY 90044642 **(SOLD SEPERATELY) (FOR RLU 228-5.5 SUSPENSION)**	1



1-BRAKE SHOE HARDWARE KIT (ITEMS 2-11)
13-CAM BUSHING KIT (ITEMS 14-23)
36-KIT, BRAKE SHOE & HARDWARE (ITEMS 1 & 12)
37-DRUM

VIEWED FROM HEAD END. NOTE: RH DOES NOT NECESSARLILY CORRESPOND W/RIGHT SIDE OF TRAILER.

Figure 1-64: Axle 12.25 x 7.5 Drum Brakes, Dexter

Axle 12.25 x 7.5 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	133795	AXLE 88.5 12.25X7.5 SER BK25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	142511	AXLE 88.5 12.25X7.5 SER BK25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	212378	AXLE 70.5 12.25SPG 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 115703, 136202 AFTER 06/16/2018)**	- -
	212383	AXLE 88.5 12.25SPG 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 133794, 142510 AFTER 06/16/2018)**	- -
1	K71-460-00	BRAKESHOE HDW KIT PQ BRKS DEX **(INCLUDES ITEMS 2-11) (INCLUDED WITH ITEM 36)**	2
2	403149	WASHER RETAINER **(NOT SHOWN) (ITEM 1 INCLUDES 2 EACH)**	4
3	204108-001	ROLLER **(ITEM 1 INCLUDES 2 EACH)**	4
4	014-068-00	BUSHING-SPIDER ANCHOR PIN DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
5	208106	SPRING BRAKE RETRACT **(ITEM 1 INCLUDES 1 EACH)**	2
6	046-097-00	SPRING-BRAKE SHOE KEEPER DEXTR **(ITEM 1 INCLUDES 2 EACH)**	4
7	205107-001	BRAKE SHOE PIN STANDARD **(ITEM 1 INCLUDES 2 EACH)**	4
8	056-017-00	ANCHOR PIN-BRAKE SHOE DEXTER **(ITEM 1 INCLUDES 2 EACH)**	4
9	056-018-00	RETAINER-RETRACTOR SPRING DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
10	214102	ROLLER RETAINER **(ITEM 1 INCLUDES 2 EACH)**	4
11	- - - - -	INSTRUCTION SHEET **(NOT SHOWN) (ITEM 1 INCLUDES 1 EACH)**	1
12	- - - - -	SHOE LINING QUICK CHG ASSY **(INCLUDED WITH ITEM 36)**	4
13	K71-101-00	CAM SHAFT REPAIR KIT PQ BRAKES **(I KIT PER BRAKE) (INCLUDES ITEMS 14-23)**	2
14	005-074-00	WASHER D-CAM DEXTER **(ITEM 13 INCLUDES 1 EACH)**	2
15	403149	WASHER RETAINER **(ITEM 13 INCLUDES 2 EACH)**	2
16	113819	CAMSHAFT WASHER 28 SPLINE **(ITEM 13 INCLUDES 1 EACH)**	2
17	408101-001	SPIDER SEALR **(ITEM 13 INCLUDES 2 EACH)**	4
18	405129	SPIDER BUSHING **(ITEM 13 INCLUDES 1 EACH)**	2
19	405999-001	NYLON BUSHING CAM BRKT ASSY **(ITEM 13 INCLUDES 1 EACH)**	2
20	061-003-00	GREASE FITTING-SPIDER DEXTER **(ITEM 13 INCLUDES 1 EACH)**	2
21	214104	CAM LOCK RING **(ITEM 13 INCLUDES 2 EACH)**	2
22	069-078-00	SNAP RING **ITEM 13 INCLUDES 1 EACH)**	2
23	- - - - -	INSTRUCTION SHEET **(NOT SHOWN) (ITEM 13 INCLUDES 1 EACH)**	1
24	034-188-03	CAMSHAFT LH 28SPLINE 22-5/16 **(FOR 115703, 136202, 212378)**	1
24	034-189-03	CAMSHAFT RH 28SPLINE 22-5/16 **(FOR 115703, 136202, 212378)**	1
24	171963	CAMSHAFT LH 28 SPLINE 26-1/2 **(FOR 133794, 133795, 142510, 142511, 212383)**	1
24	171964	CAMSHAFT RH 28 SPLINE 26-1/2 **(FOR 133794, 133795, 142510, 142511, 212383)**	1
25	127777	SLACK ADJ AUTO 12-1/4X7-1/2 **(INCLUDES CLEVIS, PINS, GAGE & INSTRUCTIONS)**	2
26	138719	SPRING BRAKE TYPE 30/30	2
27	103805	ABS SENSOR BLOCK	2
28	101849	ABS SENSOR SPRING CLIP	2

Axle 12.25 x 7.5 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
29	101847	ABS SENSOR CABLE-.4M (1FT) **(SENSOR & CABLE ASSEMBLY)**	2
30	034-048-00	BRACKET AIR CHAMBER MTG	2
31	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8
32	005-079-00	LOCK WASHER, DEXTER	8
33	034-032-00	RETAINING PLATE-CAMSHAFT DEXTR **(EACH HALF SOLD SEPERATELY)**	4
34	034-031-00	BRACKET ASSY-CAMSHAFT SUPT	2
35	007-139-00	BOLT RET CAM BUSHING DEXTER	8
36	138054	KIT,BRAKE, 12 1/4X7 1/2 **(1 KIT PER AXLE)** **(INCLUDES ITEMS 1, 2 EACH & ITEM 12, 4 EACH)**	1

Table provided for general use.

NOTES:

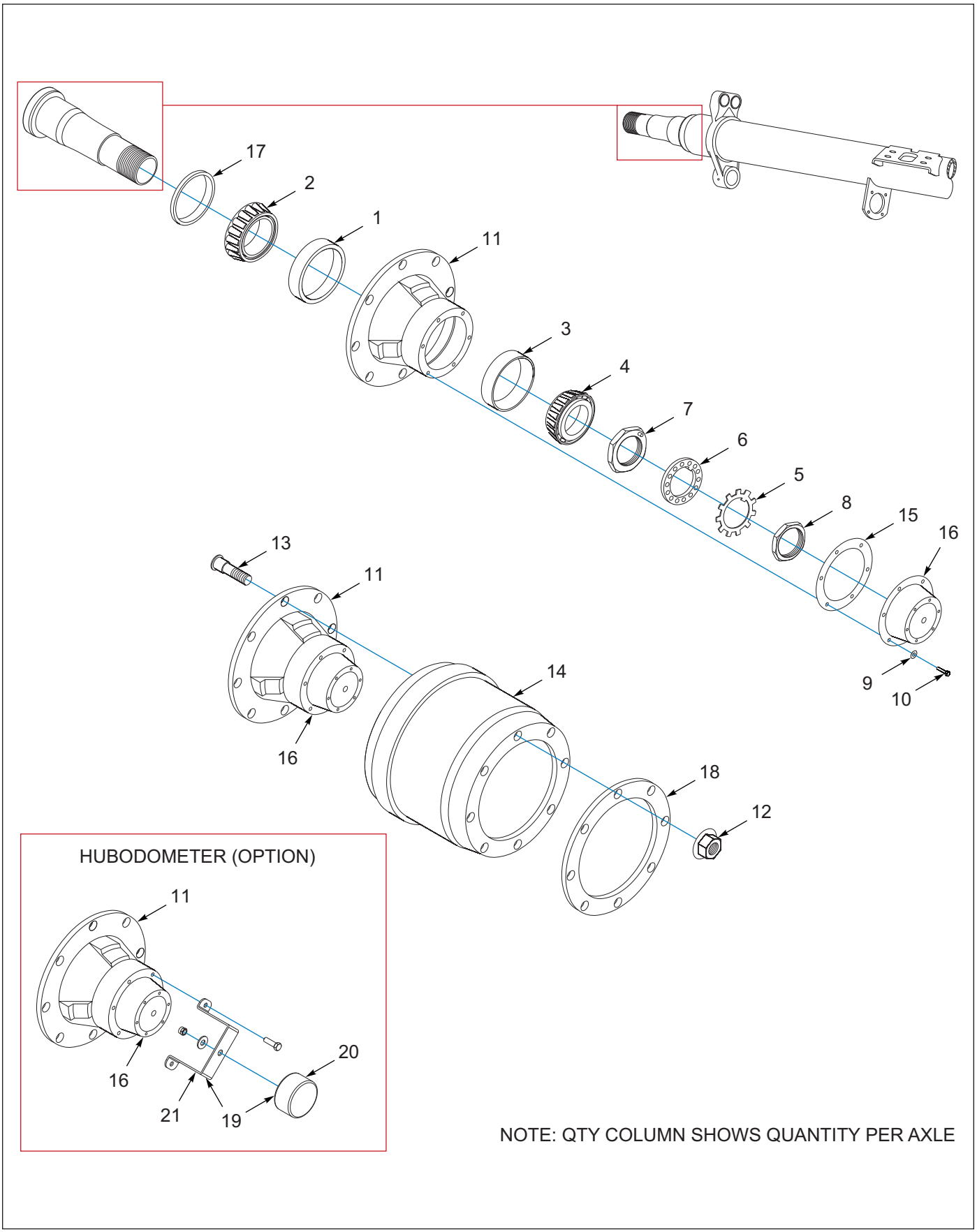


Figure 1-65: Axle 12.25 x 7.5 Drum & Hub Assembly

Axle 12.25 x 7.5 Drum & Hub Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	- - - - -	AXLE WELDMENT 2512 SPRING **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
1	HM218210	BEARING CUP,INNER-DEXTERD225K **(ITEM 11 INCLUDES 1 EACH)**	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP **(ITEM 11 INCLUDES 1 EACH)**	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W	2
6	105107	LOCK WASHER	2
7	103103-002	INNER SPIN NUT **(3-13/16" SOCKET)**	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER **(3-1/4" SOCKET)**	2
9	1-861-010034-10	WASHER,LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	112492	HUB 8 BOLT ABS 100 TOOTH **(INCLUDES TONE RING) (INCLUDES ITEMS 1, 3, 13)**	2
12	179933	NUT, HEX M22X1.5 (1.31 HEX) **(1-5/16" SOCKET)**	16
12	179955	NUT,FLANGE MM22X1.5 (1.50HEX) **(1-1/2" SOCKET)**	16
13	101162	STUD - DISC PILOT HOLE WHL **(2.47 STANDOUT) (BEFORE 06/16/2018)**	16
13	113536	STUD RH 22MM 3.5 STANDOUT **(3.5 STANDOUT) (AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS) (ITEM 11 INCLUDES 8 EACH)**	16
14	63680	DRUM, BRAKE	2
15	3067	GASKET HUB	2
16	4009	BOLT ON HUB CAP W/PLUG **(OIL CAP INCLUDES VENT PLUG AND ITEM 15, 1 EACH)**	2
17	3-659-010012	SEAL, AXLE	2
18	109214	SPACER,WHEEL 17.5 HUB PILOT **(STEEL SPACER USED BETWEEN INNER AND OUTER WHEELS)**	2
18	114619	WHEEL GUARD 8 HOLE 275MM BC **(NYLON SPACER USED TO SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)**	2
19	142549	HUBODOMETER INSTALL 10R/17.5 **(612RPM) (19A OPTION INCLUDES ITEMS 20A, 21)**	1
19	142550	HUBODOMETER INSTALL 235/17.5 **(650RPM) (19B OPTION INCLUDES ITEMS 20B, 21)**	1
20	142546	HUBODOMETER 612 RPM **(20A OPTION)**	
20	142547	HUBODOMETER 650 RPM **(20B OPTION)**	1
21	197606	BRACKET HUBODOMETER 4"H TIS **(OPTION)**	1

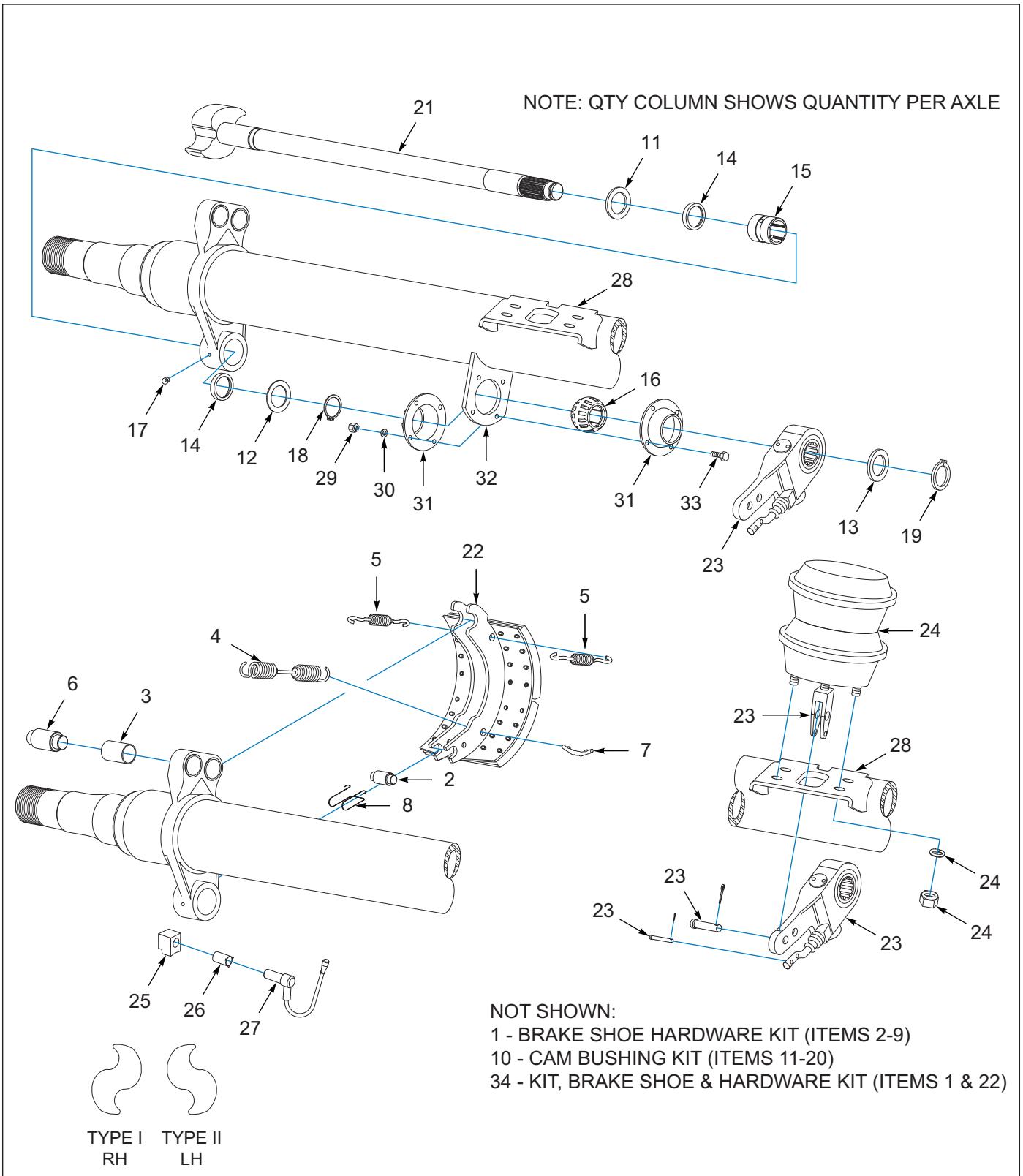


Figure 1-66: Axle 16.5 x 7 Drum Brakes, Dexter

Axle 16.5 x 7 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	115719	AXLE 69 16.5X7 SER BK 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	158539	AXLE 87",16.5X7 SER BK 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	172099	AXLE 87 16.5X7 SER BK 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	212418	AXLE 69, 16.5 X 7 SPG BRK - 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 115713, 138203 AFTER 06/16/2018)**	- -
	212421	AXLE 75, 16.5 X 7 SPG BRK - 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 115715, 138955 AFTER 06/16/2018)**	- -
1	K71-136-00	BRAKE SHOE H KIT 16.5X7 DXTR **(INCLUDES ITEMS 2-9) (INCLUDED WITH ITEM 34)**	2
2	014-065-00	ROLLER BRAKE SHOE(KNURLED)DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
3	014-068-00	ANCHOR PIN-BRAKE SHOE DEXTERR **(ITEM 1 INCLUDES 2 EACH)**	4
4	046-096-00	SPRING BRAKE SHOE-ORANGE DEXTR **(ITEM 1 INCLUDES 1 EACH)**	2
5	046-097-00	SPRING-BRAKE SHOE KEEPER DEXTR **(ITEM 1 INCLUDES 2 EACH)**	4
6	056-017-00	ANCHOR PIN-BRAKE SHOE DEXTER **(ITEM 1 INCLUDES 2 EACH)**	4
7	056-018-00	RETAINER-RETRACTOR SPRING DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
8	071-122-00	RETAINER BRAKE SHOE ROLLER **(ITEM 1 INCLUDES 2 EACH)**	4
9	- - - - -	INSTRUCTIONS **(NOT SHOWN) (ITEM 1 INCLUDES 1 EACH)**	1
10	138090	BUSHING KIT **(PER BRAKE) (INCLUDES ITEMS 11-20)**	2
11	005-096-00	WASHER CAMSHAFT DEXTER **(ITEM 10 INCLUDES 1 EACH)**	2
12	005-097-00	WASHER CAM SHAFT DEXTER **(ITEM 10 INCLUDES 2 EACH)**	2
13	113819	CAMSHAFT WASHER 28 SPLINE **(ITEM 10 INCLUDES 1 EACH)**	2
14	408101-001	SPIDER SEAL **(ITEM 10 INCLUDES 2 EACH)**	4
15	405129	SPIDER BUSHING **(ITEM 10 INCLUDES 1 EACH)**	2
16	405999-001	BUSHING, CAMSHAFT SUPPORT **(ITEM 10 INCLUDES 1 EACH)**	2
17	061-003-00	GREASE FITTING-SPIDER DEXTER **(ITEM 10 INCLUDES 1 EACH)**	2
18	214104	CAM LOCK RING **(ITEM 10 INCLUDES 2 EACH)**	2
19	069-078-00	SNAP RING **(ITEM 10 INCLUDES 1 EACH)**	2
20	- - - - -	INSTRUCTIONS **(NOT SHOWN) (ITEM 10 INCLUDES 1 EACH)**	1
21	034-192-05	CAMSHAFT, 22-5/8” LH **(FOR 115713, 115719, 138203, 212418)**	1
21	034-193-05	CAMSHAFT, 22-5/8” RH **(FOR 115713, 138203, 212418)**	1
21	137461	CAMSHAFT, 25” LH **(FOR 115715, 138955, 158539, 172099, 212421)**	1
21	137485	CAMSHAFT, 25” RH **(FOR 115715, 138955, 158539, 172099, 212421)**	1
22	040-180-00	BRAKE SHOE & LINING DEXTER **(INCLUDED WITH ITEM 34)**	4
23	139383	SLACK ADJUSTER,STR AUTO 28SPL **(INCLUDES CLEVIS, PINS, GAGE, & INSTRUCTIONS)**	2
24	126292	CHAMBER 30-30 7.00 PUSHROD	4
25	103805	ABS SENSOR BLOCK	2
26	101849	ABS SENSOR SPRING CLIP	2
27	101847	ABS SENSOR CABLE-.4M (1FT) **(SENSOR & CABLE ASSEMBLY)**	2
28	034-048-00	BRACKET AIR CHAMBER MTG	2
29	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8

Axle 16.5 x 7 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
30	005-079-00	LOCK WASHER, DEXTER	8
31	034-032-00	RETAINING PLATE-CAMSHAFT DEXTR **(EACH HALF SOLD SEPERATELY)**	4
32	034-047-00	BRACKET-CAMSHAFT SUPTWELD ON **(2 PER AXLE)**	4
33	007-139-00	BOLT RET CAM BUSHING DEXTER	8
34	159001	BRAKE SHOE&HARDWARE KIT16.5X7 **(1 KIT PER AXLE) (INCLUDES ITEMS 1, 2 EACH & 22, 4 EACH)**	1

Table provided for general use.

NOTES:

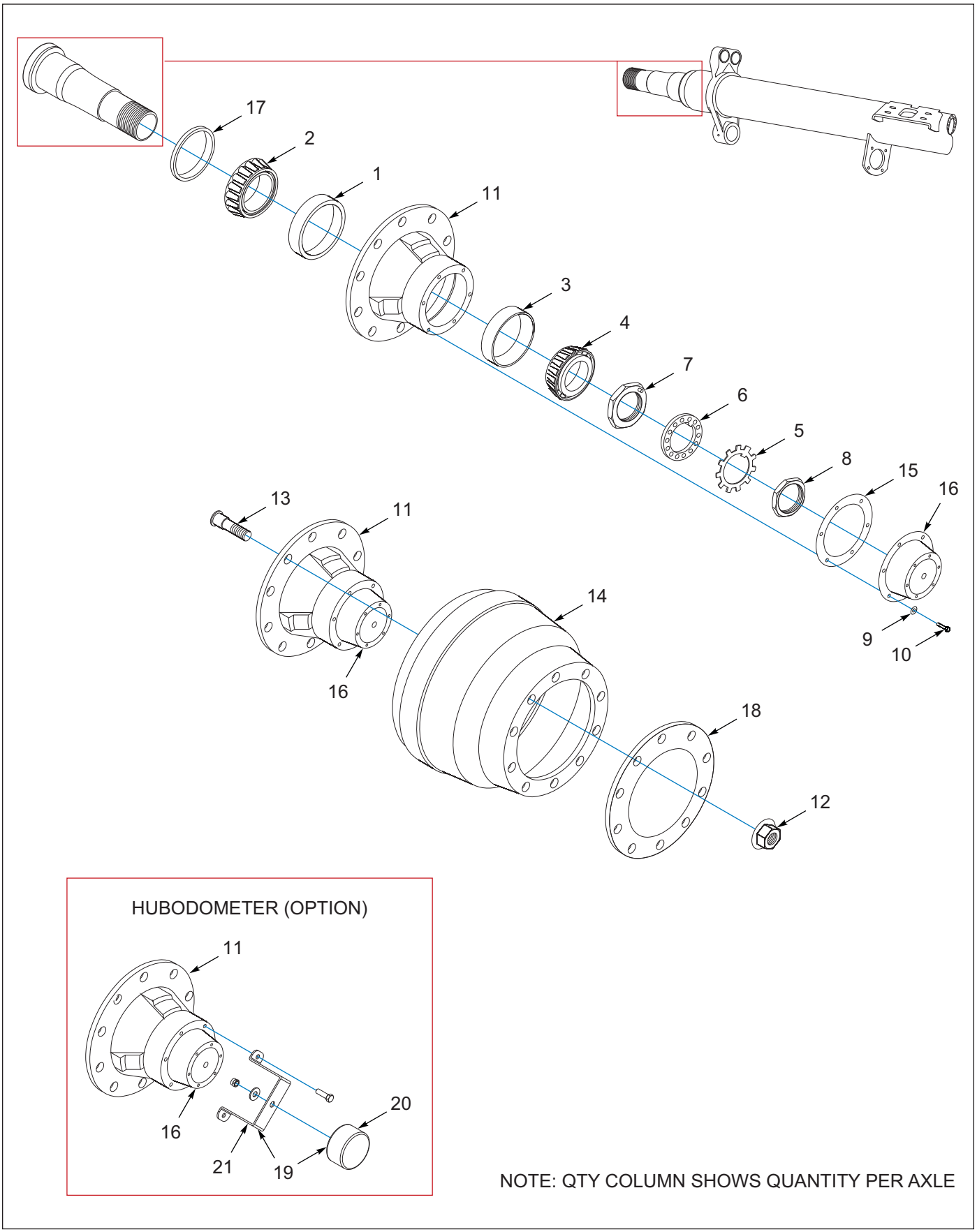


Figure 1-67: Axle 16.5 x 7 Drum & Hub Assembly, Dexter

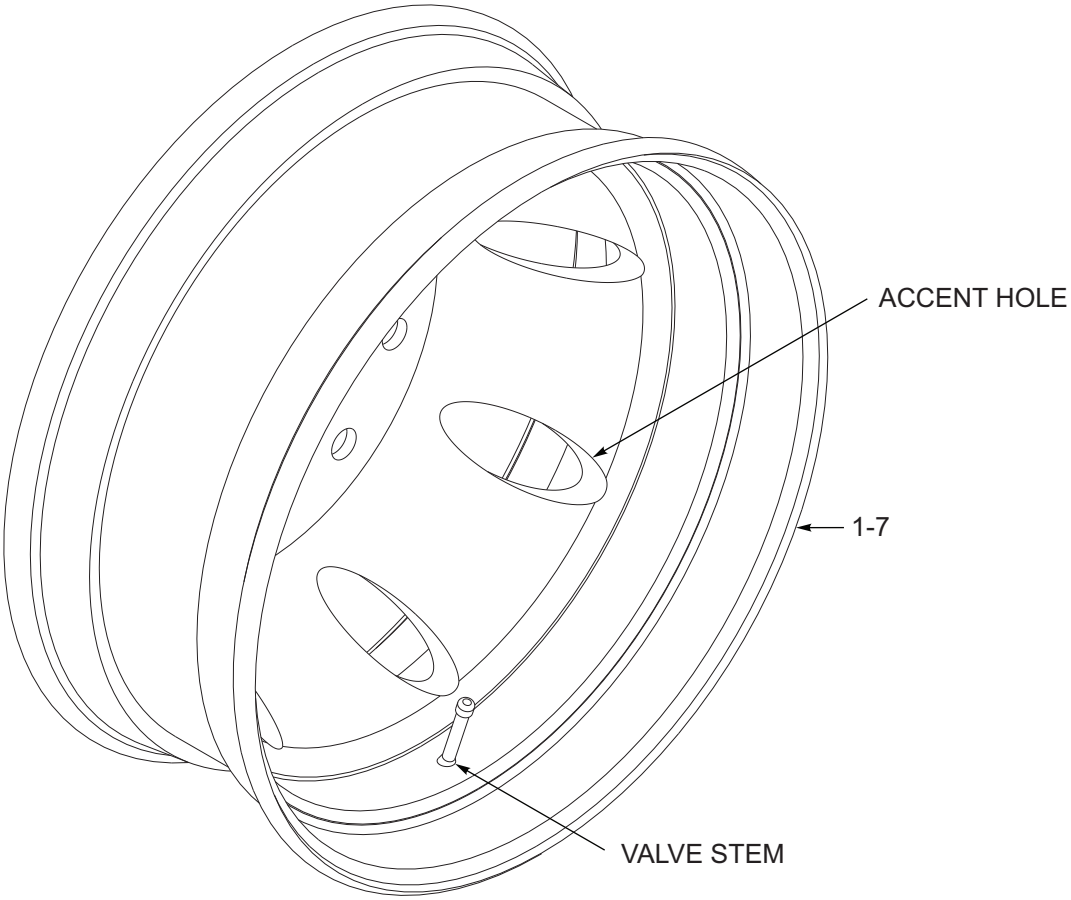
Axle 16.5 x 7 Drum & Hub Assembly, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	- - - - -	AXLE WELDMENT 2516 SPRING **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
1	HM218210	BEARING CUP,INNER-DEXTERD225K **(INCLUDED WITH ITEM 11 INCLUDES 1 EACH)**	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP **(INCLUDED WITH ITEM 11 INCLUDES 1 EACH)**	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W	2
6	105107	LOCK WASHER	2
7	103103-002	INNER SPIN NUT **(3-13/16" SOCKET)**	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER **(3-1/4" SOCKET)**	2
9	1-861-010034-10	WASHER,LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	110975	HUB FOR 103781 **(100 TOOTH TONE RING) (INCLUDES ITEMS 1, 3) (FLANGE NUTS & STUDS SOLD SEPARATELY)**	2
12	179933	NUT, HEX M22X1.5 (1.31 HEX) **(1-5/16" SOCKET)**	20
12	179955	NUT,FLANGE MM22X1.5 (1.50HEX) **(1-1/2" SOCKET)**	20
13	101162	STUD - DISC PILOT HOLE WHL **(2.47 STANDOUT) (BEFORE 06/16/2018)**	20
13	113536	STUD RH 22MM 3.5 STANDOUT **(3.5 STANDOUT) (AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS)**	20
14	110976	DRUM FOR 103781	2
15	3067	GASKET HUB	2
16	4009	BOLT ON HUB CAP W/PLUG **(OIL CAP INCLUDES VENT PLUG AND ITEM 15)**	2
17	3-659-010012	SEAL, AXLE	2
18	3-870-010107	WHEEL-GUARD,10STD 285.75MM BC **(NYLON SPACER USED TO SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)**	2
18	123882	SPACER,WHEEL,375X10HOLE HUB **(STEEL SPACER)**	2
19	137108	HUBODOMETER INSTL 255TIRE **(572RPM) (OPTION INCLUDES ITEMS 21, 22)**	1
20	113109	HUBODOMETER 572 RPM	1
21	197606	BRACKET HUBODOMETER 4"H TIS	1

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

MAIN CHARACTERISTICS TABLE:

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



8 ACCENT HOLE WHEEL SHOWN AS REFERENCE:

NOT SHOWN: #8 VALVE STEM EXTENSION (OPTION)

Figure 1-68: Wheels

Wheels

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

Disc Brakes (OPTION)

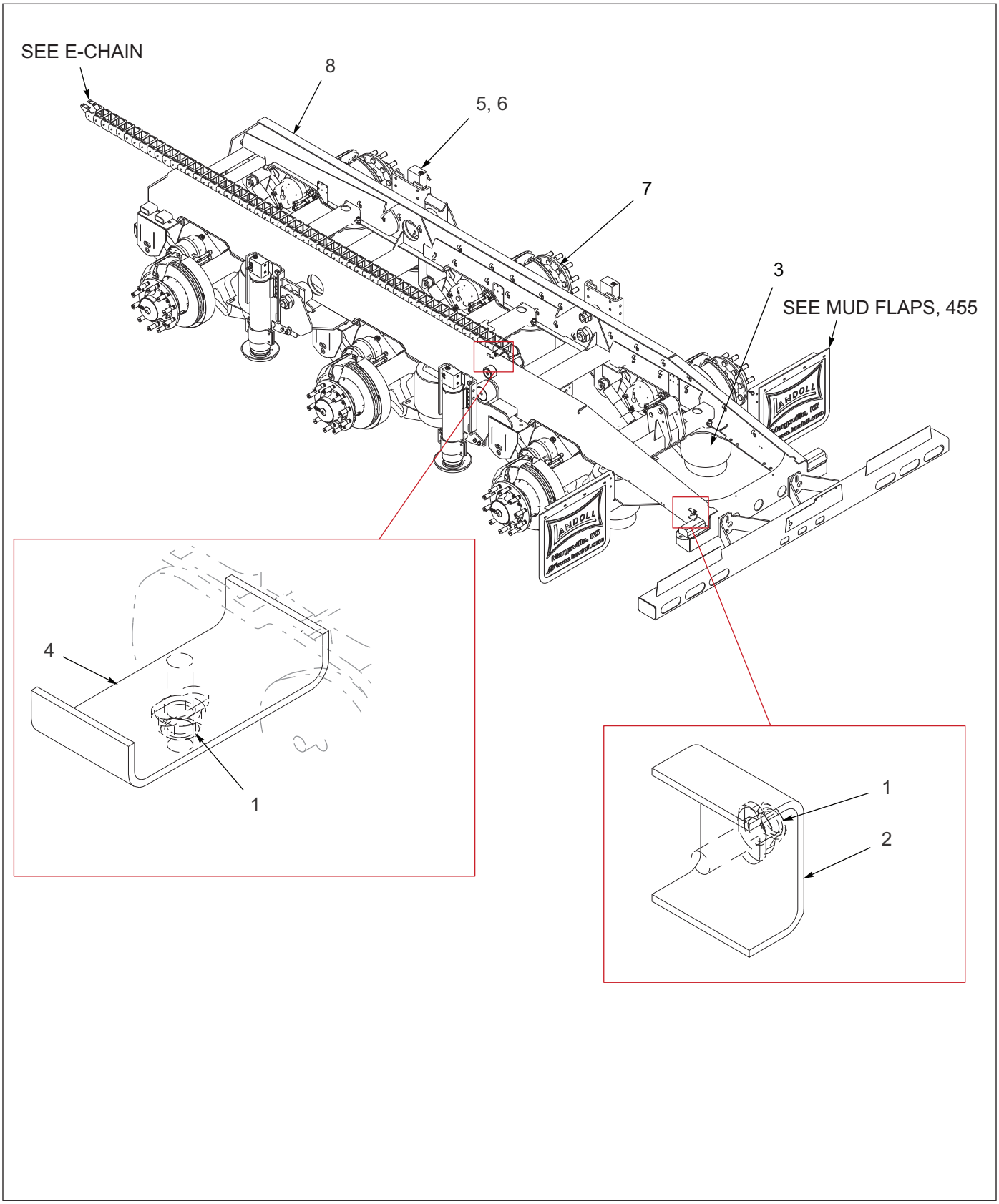


Figure 1-69: Disk Brake Suspension, Basic Assembly

Disc Brake Suspension, Basic Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176071	SUSP 455-108 DSK BRK TIS	- -
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	4
2	2-181-010001	HOSE CLAMP	4
3	103084	SUSPENSION, AIR SYS TRIDEM **(SEE PAGE 1-77)**	1
4	103817	CLAMP, HOSE	1
5	121498	DOCK LEVELER ASSEMBLY	1
6	126537	DOCK LEVELER ASSEMBLY	1
7	175754	AXLE, DISC SPRING BRAKE 75-1/2” 16-1/2” 25K TIS **(SEE PAGE 1-124)**	3
8	176072	SUSPENSION WELDMENT, DISC BRAKE **(455-108)**	1

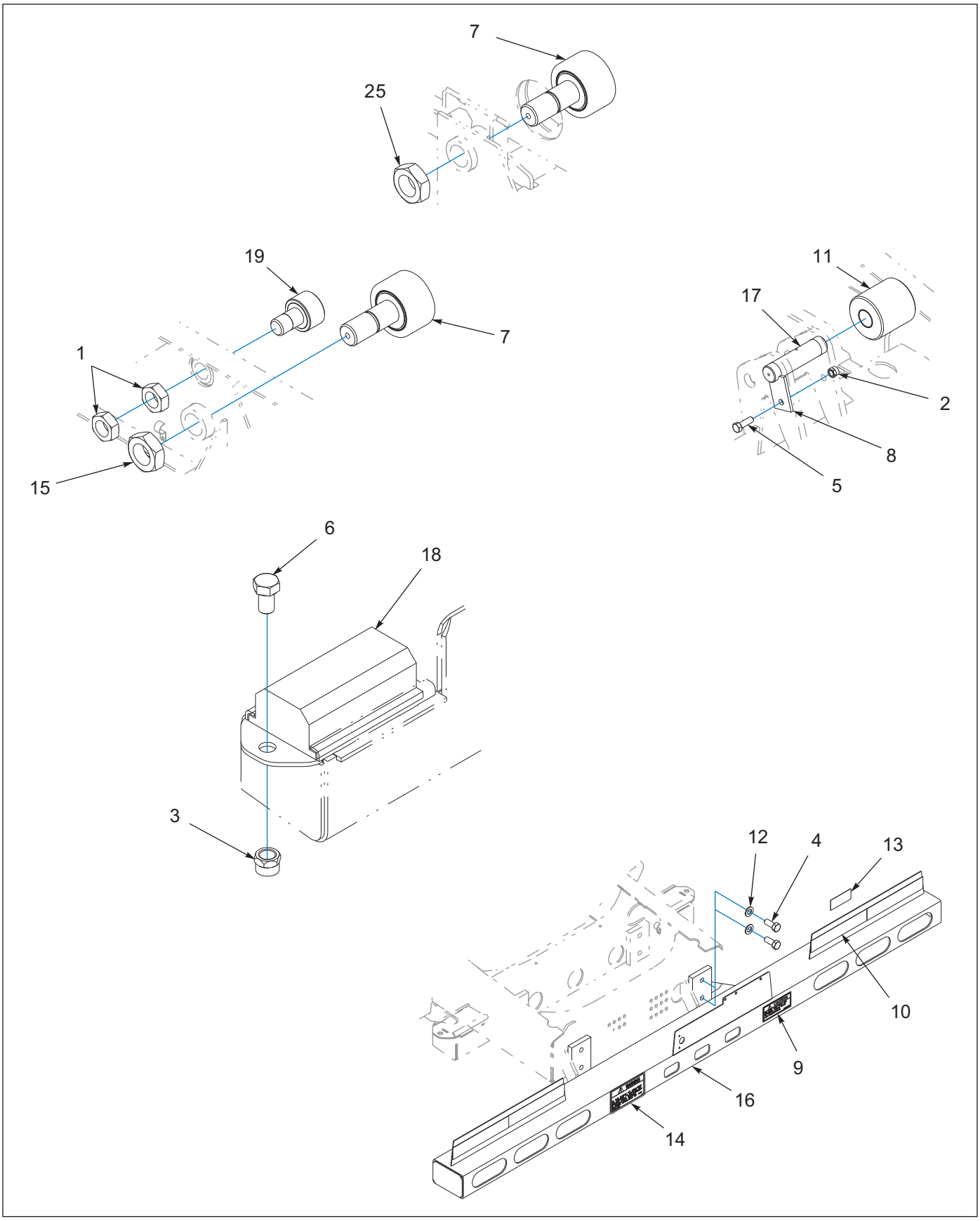


Figure 1-70: Disk Brake Suspension, General Assembly

Disc Brake Suspension, General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176071	SUSP 455-108 DSK BRK TIS	- -
1	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
4	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	4
5	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	1
6	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
7	3-076-010015	CAM FOLLOWER 5" DIA **(TORQUE TO 250 FT/LBS)**	4
8	3-187-010013	CLIP, PIN RETAINER	1
9	3-573-010031	DECAL, TRAILER BUMPER	1
10	3-573-010377	DECAL, 2" REFLEXITE TAPE RED/WHITE	AR
11	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
12	622-3511-008	WASHER, 3/4N	4
13	103055	DECAL, ENERGY BUMPER CERT	1
14	103056	DECAL, ENERGY BUMPER WARNING	1
15	104034	NUT, HEX 2-12 GRB	4
16	121369	BUMPER WELDMENT **(CAN)**	1
17	121686	PIN, 1-1/2 X 6-1/4	1
18	142565	PLATE, RUB BUMPER 2"	2
19	145532	CAM FOLLOWER 3" SEALED **(TORQUE TO 166 FT/LBS)**	2

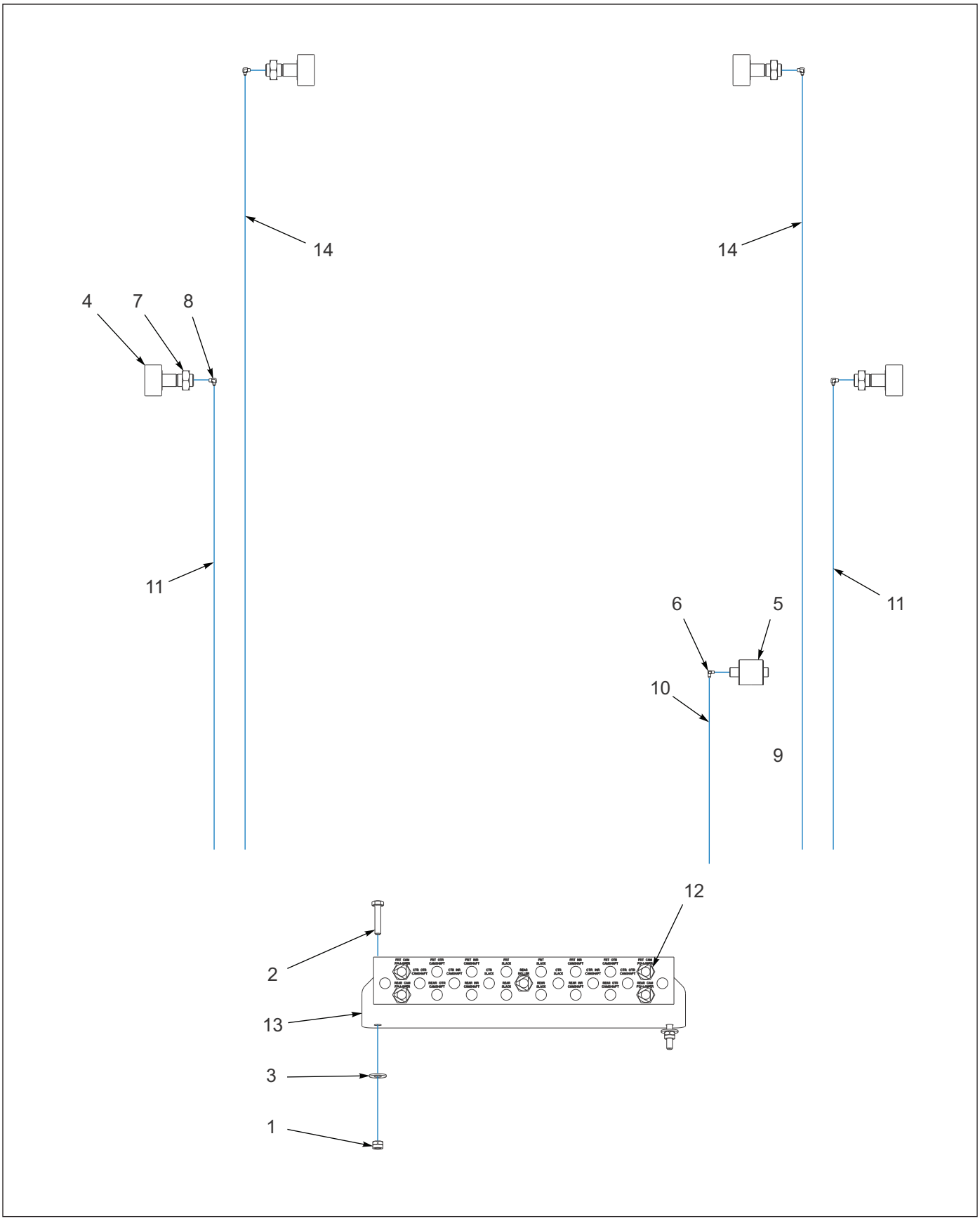


Figure 1-71: Disk Brake Suspension, Grease Assembly

Disc Brake Suspension, Grease Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176071	SUSP 455-108 DSK BRK TIS	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4	2
4	3-076-010015	CAM FOLLOWER 5" DIA **(TORQUE TO 250 FT/LBS)**	REF
5	3-645-010084	ROLLER ASSEMBLY, REAR U/C	REF
6	2024-2-4S	ADAPTER, ELBOW	1
7	104034	NUT, HEX 2-12 GR2	REF
8	113268	ADAPTER, 90	4
9	121686	PIN, 1-1/2 X 6-1/4	REF
10	142441	HOSE ASSEMBLY, GREASE 1/4 X 45	1
11	142444	HOSE ASSEMBLY, GREASE 1/4 X 83	2
12	142545	NUT, 7/16	23
13	143182	BRACKET, GREASE HOSE	1
14	144614	HOSE ASSEMBLY GREASE X 172	2

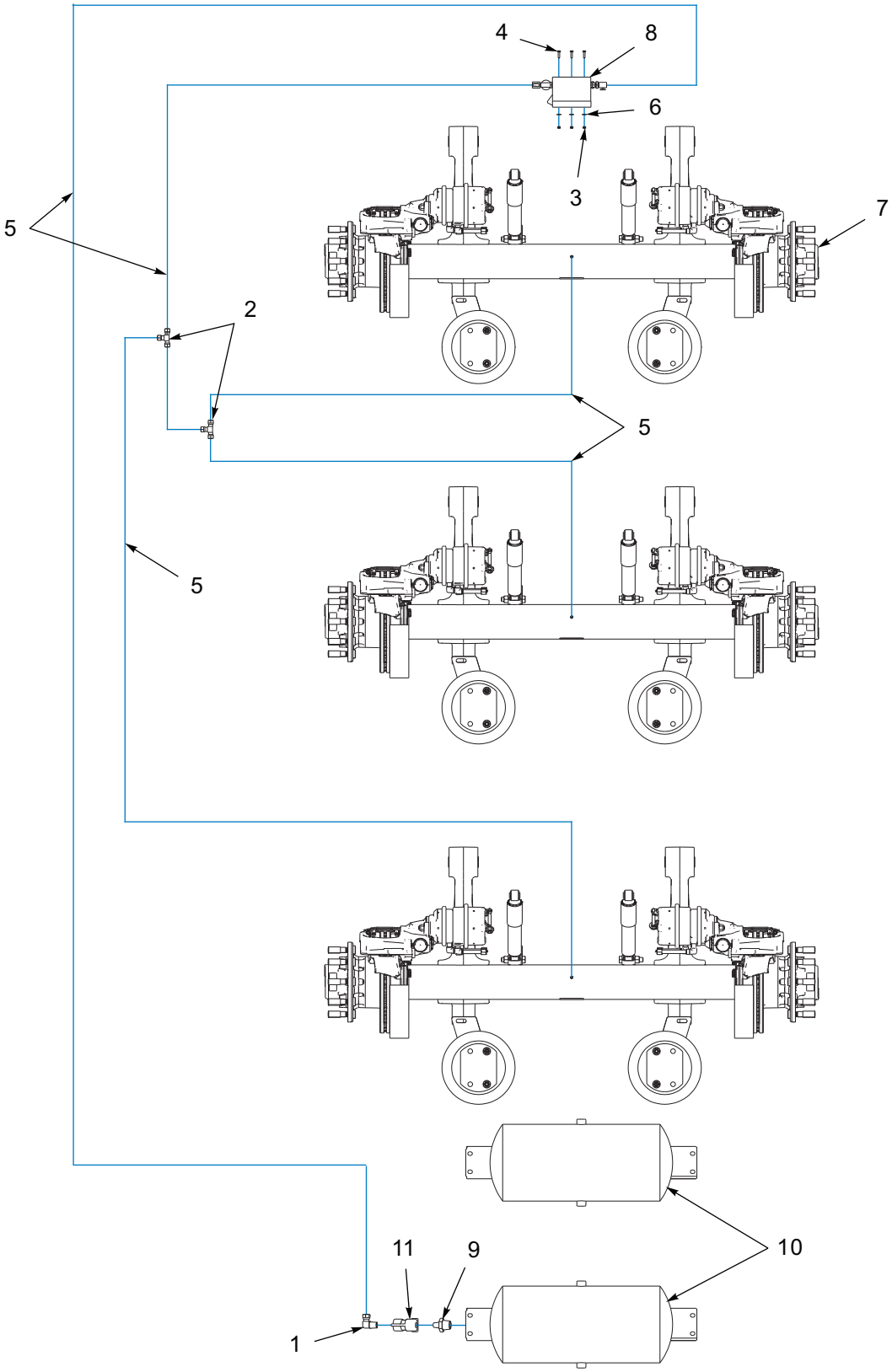


Figure 1-72: Disk Brake Suspension, Tire Inflation Assembly

Disc Brake Suspension, Tire Inflation Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176071	SUSP 455-108 DSK BRK TIS	- -
1	1-297-010008-07	FITTING AIR 90	REF
2	1-297-010010-01	FITTING AIR UNION TEE	REF
3	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	3
4	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	3
5	1-833-010001	TUBING NYLON 1/4 OD	AR
6	1-861-010032-07	WASHER, FLAT 1/4W	3
7	175754	AXLE, DISC SPRING BRAKE 75-1/2” 16-1/2” 25K TIS **(SEE PAGE 1-124)**	REF
8	176076	THERMALERT, TIRE INFLATION SYSTEM, TRIPLE SAF AXLES **(SEE PAGE 1-126)**	1
9	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
10	3-780-010002	TANK AIR	REF
11	216710	PRESSURE PROTECTION VALVE	- -

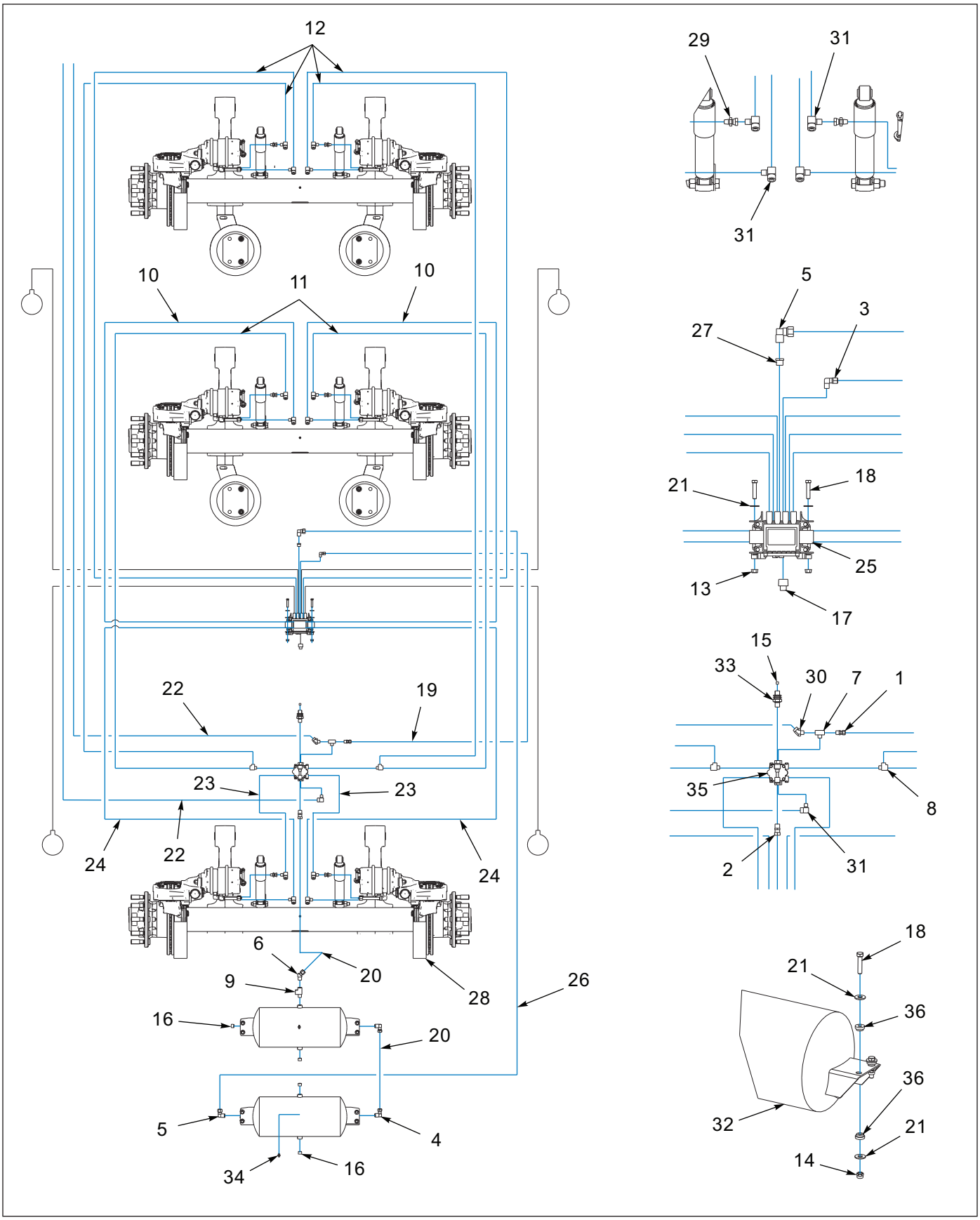


Figure 1-73: Air System, U/C ABS Disk Brake

Air System, U/C ABS Disc Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	176865	AIR SYSTEM, U/C ABS DISC BRAKE	- -
1	1-297-010007-12	FITTING, AIR	1
2	1-297-010007-15	FITTING, AIR	1
3	1-297-010008-18	FITTING, AIR 90	1
4	1-297-010008-24	FITTING, AIR 90	4
5	1-297-010008-26	FITTING, AIR 90	2
6	1-297-010013-16	FITTING, AIR 45	1
7	1-297-010017-03	FITTING, AIR M/BR TEE	1
8	1-297-010018-03	FITTING, BRS PIPE ST TEE	REF
9	1-297-010018-04	FITTING, BR TEE	1
10	1-384-010038-2	HOSE, AIR 3/8 X 66	2
11	1-384-010038084	HOSE, AIR 3/8 X 84”	2
12	1-384-010038120	HOSE, AIR 3/8 X 120	4
13	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
14	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
15	1-560-010002-02	PIPE PLUG 1/4	2
16	1-560-010002-04	PIPE PLUG 1/2	5
17	1-560-010002-05	PIPE PLUG 3/4-14	1
18	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	14
19	1-833-010002	TUBING, NYLON 3/8	AR
20	1-833-010003	TUBING, NYLON 1/2	AR
21	1-861-010032-11	WASHER, FLAT 3/8W	26
22	100949	HOSE, AIR 3/8 X 222 W/ 3/8 ENDS	2
23	101003	HOSE, AIR 3/8 X 48	2
24	103738	HOSE, AIR 3/8 X 100	2
25	114586	BRAKE KIT, ABS 4S/2M	1
26	117304	TUBING, NYLON 5/8	AR
27	118-2659-9	BUSHING 1/2 X 3/4	1
28	175754	AXLE, 75-1/2 16-1/2 DISC SPRING BRAKE 25K TIS	REF
29	2045-6-6S	ADAPTER, SWIVEL	4
30	2088-6-6S	ADAPTER, 45	1
31	2089-6-6S	ADAPTER, 90	1
32	3-780-010002	TANK, AIR	3
33	55B61	FRAME UNION	1
34	56D4	AIR TANK DRAIN COCK	3
35	758-181	VALVE RELAY EMERGENCY	1
36	805-2	STEP BUSHING	24
37	123594	AIR SPRING	6

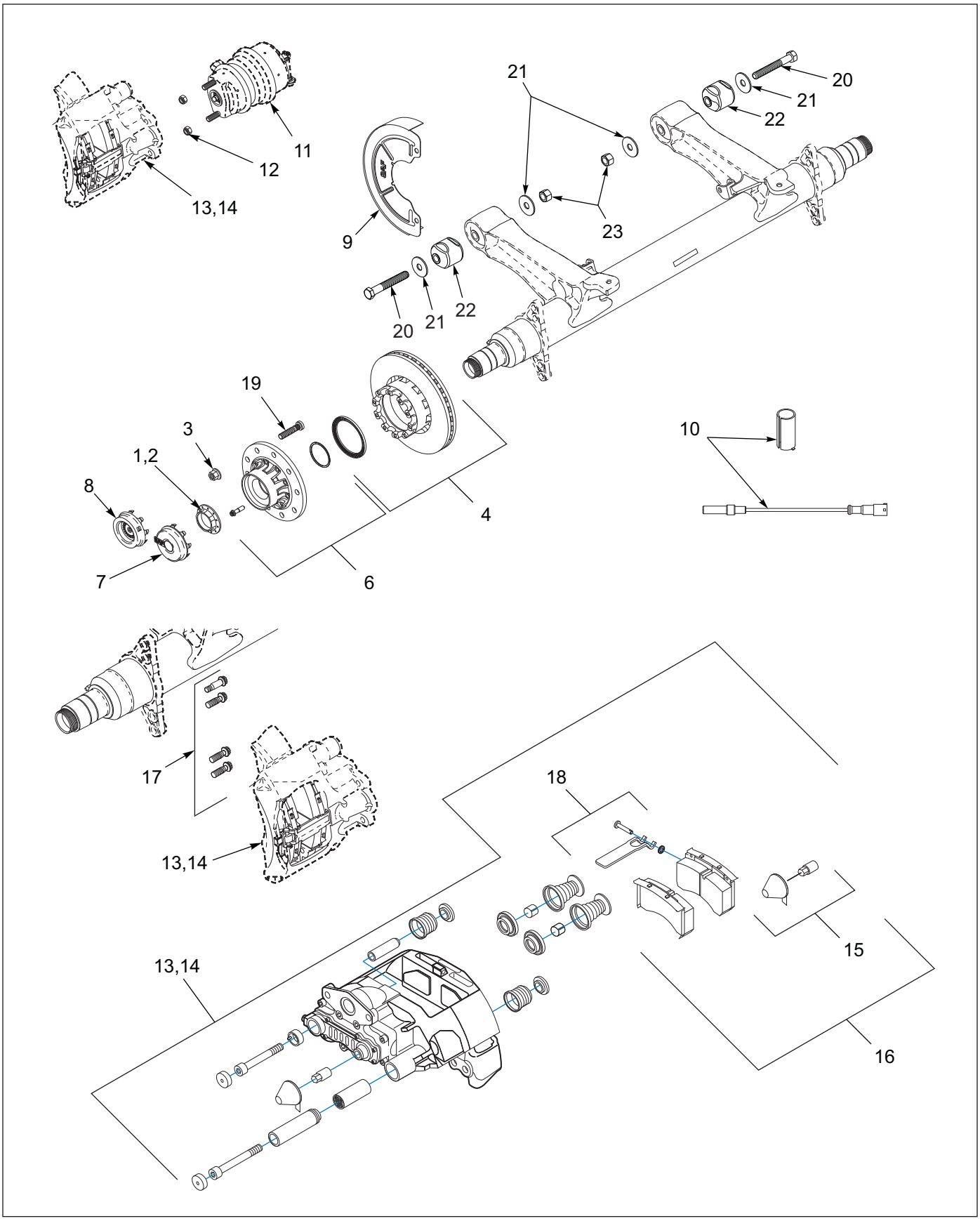


Figure 1-74: Disc Spring Brake Axle Items (1 of 2)

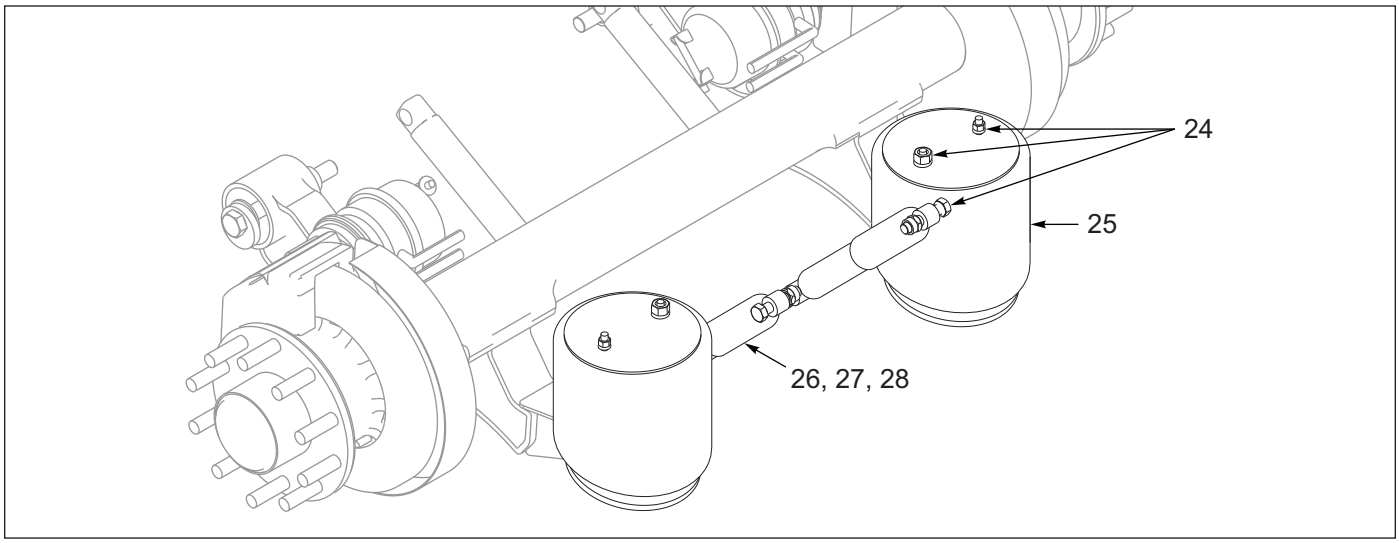


Figure 1-75: Disc Spring Brake Axle Items (2 of 2)

Disc Spring Brake Axle Items

ITEM	PART NO.	DESCRIPTION	QTY.
	175754	AXLE, DISC SPG BK75-1/2” 16-1/2” 25K TIS	- -
1	179568	AXLE NUT, LH	1
2	179569	AXLE NUT, RH	1
3	179570	WHEEL NUT	2
4	179571	HEAD UNIT W/ LONG STUDS	2
5	179572	AXLE STUB GREASE **(NOT SHOWN)**	2
6	179573	DISC REPAIR KIT	1
7	179574	HUB CAP **(PSI)**	2
7	179575	HUB CAP **(NO PSI)**	2
8	179576	HUB CAP HUB ODOMETER	2
9	176876	DUST SHIELD	2
10	179577	ABS KIT	2
11	179578	BRAKE CHAMBER 16/24 **(OBSOLETE USE 239686)**	2
11	239686	BRAKE CHAMBER SAF CBX25U 6"RID	
12	179579	BRAKE CHAMBER NUT	4
13	179580	BRAKE CALIPER, LH 22.5	1
14	179581	BRAKE CALIPER, RH 22.5	1
15	179582	ADJUSTER CAP	2
16	179583	BRAKE LINING KIT 22.5	1
17	179584	BRAKE CALIPER BOLT KIT	2
18	179585	BRAKE PAD RETAINING CLIP	2
19	195320	LONG WHEEL STUD	2
20	201636	BOLT, 1.12-7 X 8 GRB	2
21	201637	WASHER, 1.14 ID X 3.5 OD, GR8	4
22	201638	BUSHING, CAST BEAM	2
23	201639	NUT, HEX, 1.125-7 GRC	2
24	239685	AIR SPG/SHOCK FASTENER KIT SAF	1
25	239684	AIR SPRING SAF CBX25U 6" RIDE	2
26	900-44-868	SHOCK ABSORBER AR-80-9 NEWAY	2
27	239682	SHOCK STRAP SAF CBX25U 6" RIDE	2
28	239683	SHOCK STRP KIT SAF CBX25U 6"RI **(INCLUDES ITEM 27, 2 EACH)**	1

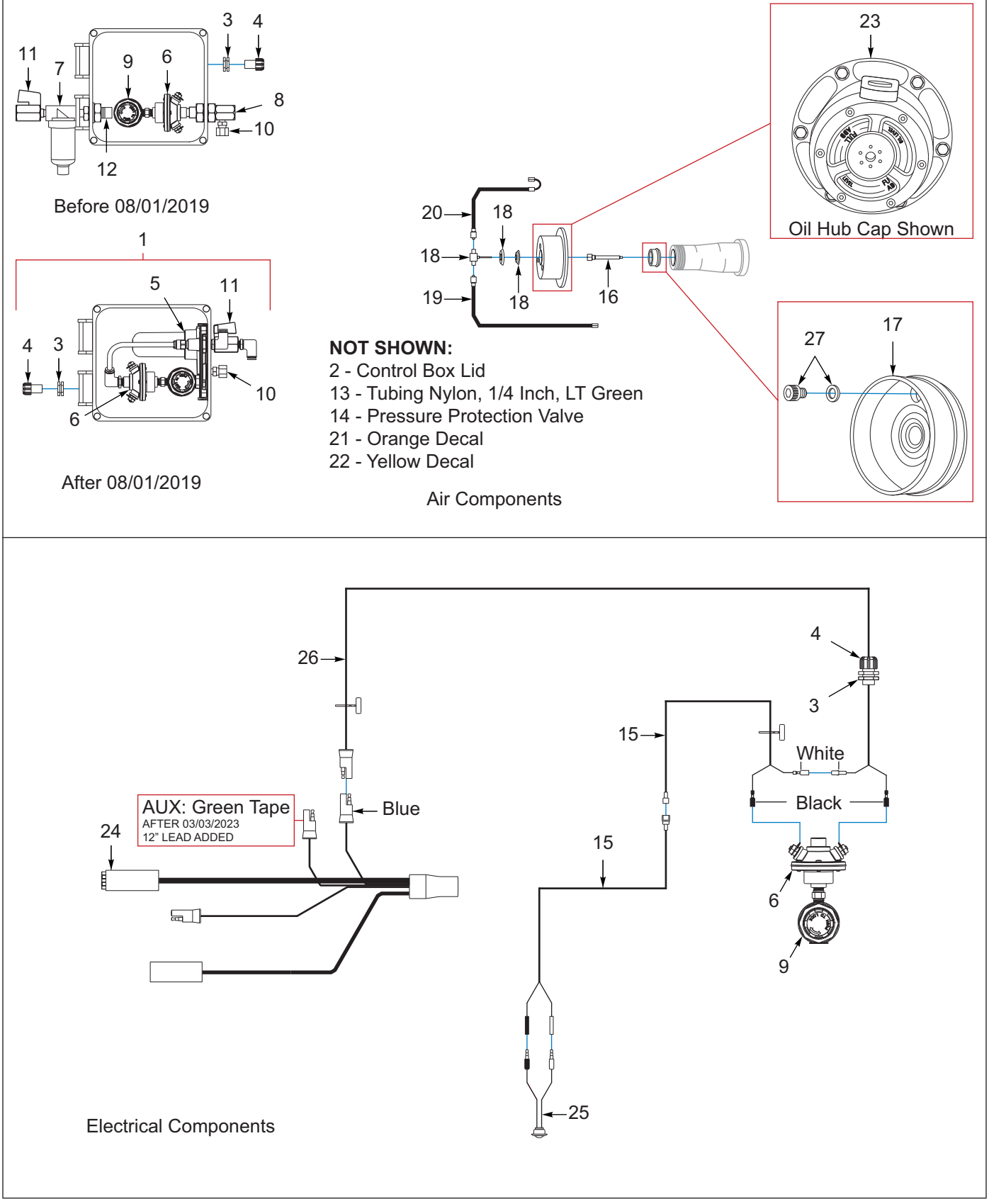


Figure 1-76: Thermalert Tire Inflation System

Thermalert Tire Inflation System

ITEM	PART NO.	DESCRIPTION	QTY.
	176076	THERMALERT, TIRE INFLATION SYSTEM, TRIPLE SAF AXLES	- -
1	168618	THERMALERT CONTROL BOX **(OLD STYLE - BEFORE 08/01/2019 INCLUDES ITEMS 2-4, 6-12)** **(NEW STYLE - AFTER 08/01/2019 INCLUDES ITEMS 2-6, 10-11)**	1
2	216705	CONTROL BOX LID **(NOT SHOWN)**	1
3	106-0006	NUT 1/2 CONDUIT STL	1
4	20125	STRAIN RELIEF, 1/4TO3/8	1
5	230613	TIS MANIFOLD ASSY (NEW STYLE) **(NEW STYLE - AFTER 08/01/2019)** **(INCLUDES PARTICULATE FILTER / BOWL, PRESSURE REGULATOR, GASKET, 4 SCREWS & 8 INCH AIR LINE)**	1
6	180229	FLOW SENSING SWITCH	1
7	180228	SELF-DRAINING FILTER **(OLD STYLE - BEFORE 08/01/2019)**	1
8	216707	BULKHEAD FITTING	1
9	180224	PRESSURE REGULATOR VALVE **(OLD STYLE - BEFORE 08/01/2019)**	1
10	180225	PETCOCK	1
11	180223	SHUT-OFF VALVE	1
12	180227	BULKHEAD/CHECK VALVE **(OLD STYLE - BEFORE 08/01/2019)**	1
13	- - - - -	TUBING NYLON 1/4 LT GREEN 25FT	1
14	168610	THERMALERT PRESS PROT VALVE	1
15	168613	THERMALERT WIRING HARNESS	1
16	168616	THERMALERT STATOR & FILTER ASM **(PER AXLE)**	2
17	168617	THERMALERT PRESS PLUG ASSY **(PER AXLE)** **(INCLUDES ITEM 27)**	2
18	178592	THRU TEE ASSEMBLY 4.25" **(PER AXLE)** **(INCLUDES SHIELD & VENT CAP)**	2
19	168612	THERMALERT LONG HOSE **(PER AXLE) (BEFORE 01/10/2014)**	- -
19	180839	TIS LONG HOSE **(17" LONG) (PER AXLE) (AFTER 01/10/2014)**	2
20	180222	SHORT FLEX HOSE **(PER AXLE) (BEFORE 01/10/2014)**	- -
20	180840	TIS SHORT HOSE **(13-1/2" LONG) (PER AXLE) (AFTER 01/10/2014)**	2
21	205836	ORANGE LIGHT WARNING DECAL TIS **(NOT SHOWN)**	1
22	205837	YLW TRAILER WARNING DECAL TIS **(NOT SHOWN)**	2
23	197613	HUB CAP TIS OIL AXLE **(STANDARD) (PER AXLE)**	2
23	197318	HUB CAP TIS GREASE AXLE **(OPTION) (PER AXLE)**	2
24	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	- -
25	183413	LIGHT,WH T LED .75 CL/MK GROTE	1
26	202207	HARNESS MOD, TIS POWER ASSY	1
27	228069	THERMALERT THERMAL PLUG KIT **(INCLUDES 1 PLUG AND 1 GASKET) (INCLUDED WITH ITEM 17)**	1

Bulkhead & Outriggers

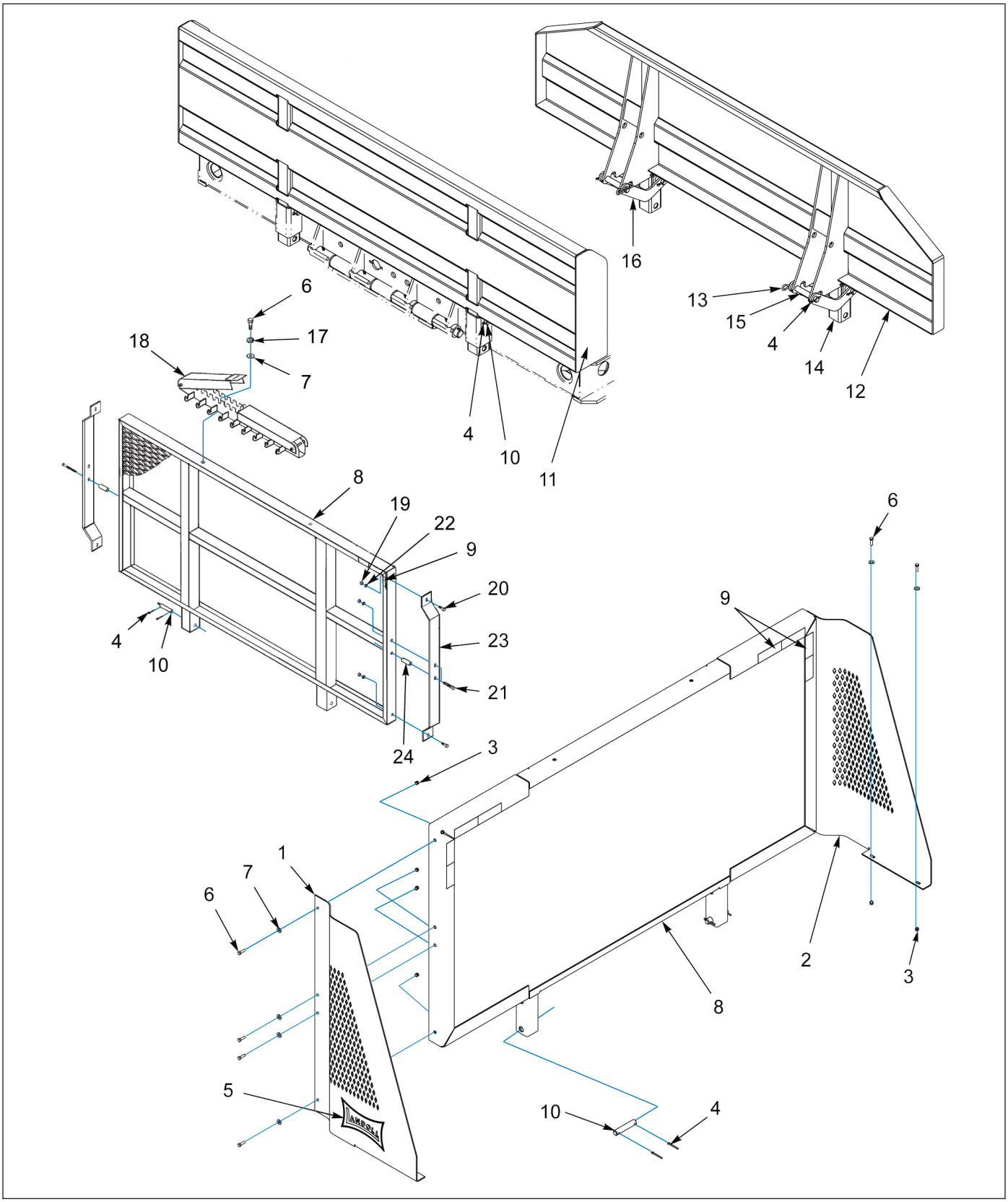


Figure 1-77: Bulkhead Assembly

Bulkhead Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	128414	BULKHEAD INST BLK/AL WING400 **(ITEMS 1-10)**	- -
	134616	BULKHEAD INSTALLATION 26 X 102 **(ITEMS 4, 9-10, 11)**	- -
	136848	EXTENSION INSTALLATION 16/24 **(ITEMS 4, 12-16)**	- -
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION **(ITEMS 6-7, 17-18)**	- -
	3-141-010121-1	BULKHEAD INSTL, 96 TRAILER **(ITEMS 4, 8-10, 19-24)**	- -
	130895	BULKHEAD INSTALLATION, SPECIAL **(ITEMS 1-10)**	- -
1	128137	EXTENSION, BULKHEAD ALUM LH	REF
1	128153	EXTENSION, BULKHEAD LH	REF
2	128138	EXTENSION, BULKHEAD ALUM RH	REF
2	128152	EXTENSION, BULKHEAD RH	REF
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	REF
4	1-557-010362-63	COTTER PIN 1/4 X 2	REF
5	153754	DECAL, BOW TIE **(BLACK)**	REF
5	153755	DECAL, BOW TIE **(WHITE)**	REF
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	REF
7	1-861-010032-11	WASHER, FLAT 3/8	REF
8	3-141-010155	BULKHEAD WELDMENT 48 X 96	REF
8	130896	BULKHEAD WELDMENT, SPECIAL **(130895)**	REF
9	3-573-010378	DECAL, 2” REFLEXITE TAPE, WHITE	REF
10	6-557-010163	PIN HITCH LEVEL LINK	REF
11	134608	BULKHEAD WELDMENT 26 X 102	REF
12	136849	BULKHEAD WELDMENT 16/24 X 102 2 POS	REF
13	1-557-010014	PIN, HAIR 1/4	REF
14	3-482-010249	MOUNT WELDMENT BULKHEAD	REF
15	3-557-010380	PIN	REF
16	3-755-010080	SUPPORT WELDMENT, BULKHEAD	REF
17	1-861-010034-11	WASHER, SPLIT LOCK 3/8	REF
18	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	REF
19	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	REF
20	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	REF
21	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	REF
22	1-861-010032-15	WASHER, FLAT 1/2W	REF
23	3-054-010101	BAR, SIDE 48" BULKHEAD 102"	REF
24	3-711-010025	SPACER, 48" BULKHEAD	REF

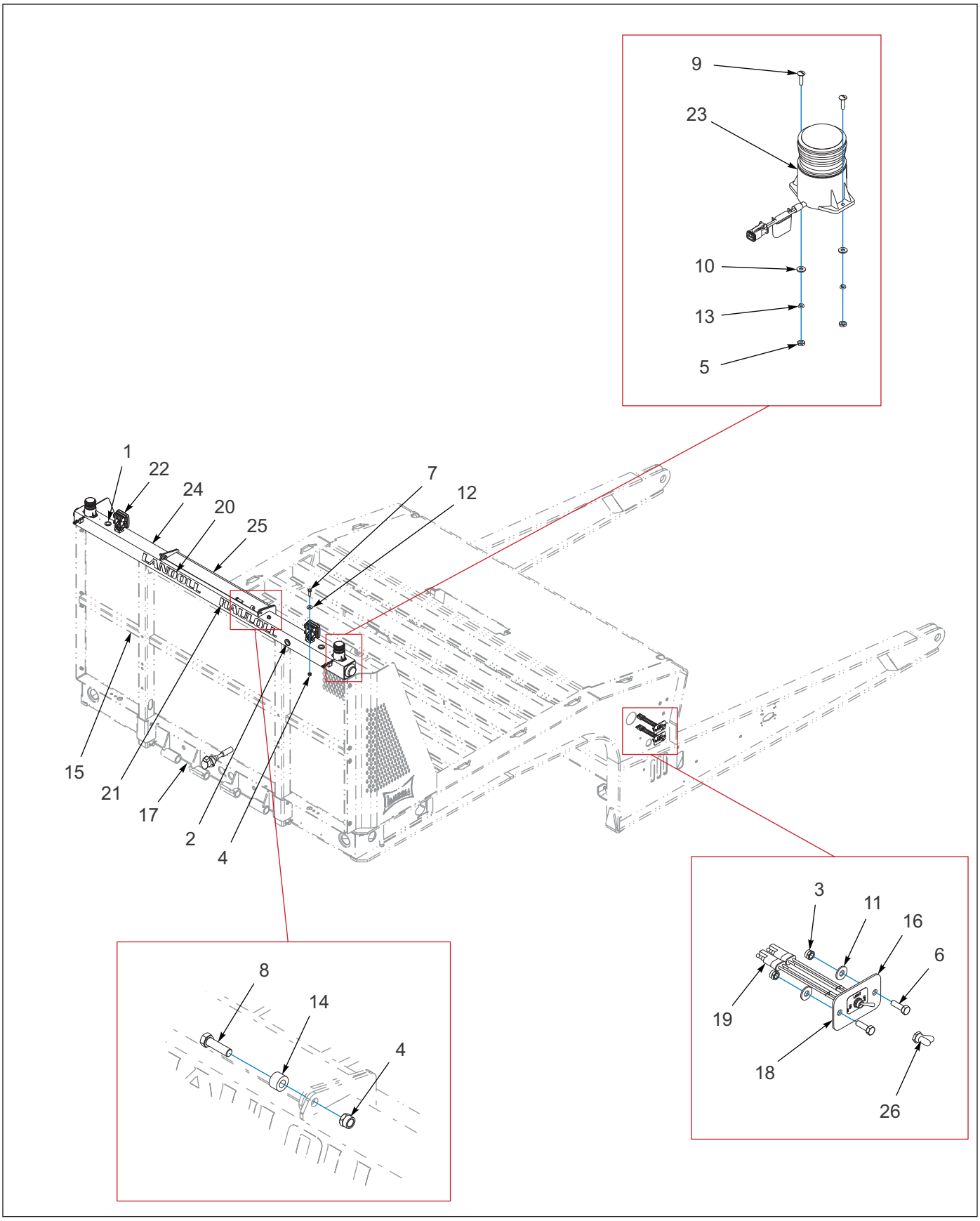


Figure 1-78: Bulkhead Chain Rack Light General Assembly

Bulkhead Chain Rack Light General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.	
	167971	BULKHEAD CHAIN RACK S/T/T WORK LIGHT	*	
	176286	BULKHEAD CHAIN RACK S/T/T W/ STROBE		*
1	1-343-010006	GROMMET	2	2
2	1-343-010007	GROMMET	1	1
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	4
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4	4
5	1-512-010007-03	NUT, HEX LOCK 10-24	- -	4
6	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2	4
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2	2
8	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	2	2
9	1-656-010003051	SCREW, RD HEAD SQ NECK 10-24 X 3/4	- -	4
10	1-861-010032-03	WASHER, FLAT #10	- -	4
11	1-861-010032-09	WASHER, FLAT 5/16W	2	4
12	1-861-010032-15	WASHER, FLAT 1/2W	2	2
13	1-861-010034-07	WASHER, FLAT #10	- -	4
14	125799	SPACER	2	2
15	- - - - -	BULKHEAD WELDMENT	REF	REF
16	130116	DECAL, ON/OFF LIGHT	1	2
17	- - - - -	GOOSENECK WELDMENT	REF	REF
18	137987	MOUNT, ELECTRICAL SWITCH	1	2
19	150117	TOGGLE SWITCH SEALED SPST	REF	REF
20	155273	DECAL, LANDOLL 2-1/2 BLK REFLECTIVE	1	1
21	155274	DECAL, HAULOLL 2-1/2 BLK REFLECTIVE	1	1
22	163996	LIGHT, LED WHITE FLOODLAMP	REF	REF
23	165788	STROBE LIGHT MODIFIED ASSEMBLY	- - - - -	REF
24	167972	TUBE WELDMENT, BULKHEAD TOPPER	‘	1
25	- - - - -	LID WELDMENT, CHAIN BINDER **(NOT SHOWN)**	1	1
26	81264	RUBBER BOOT FOR ELECT SWITCH	1	2

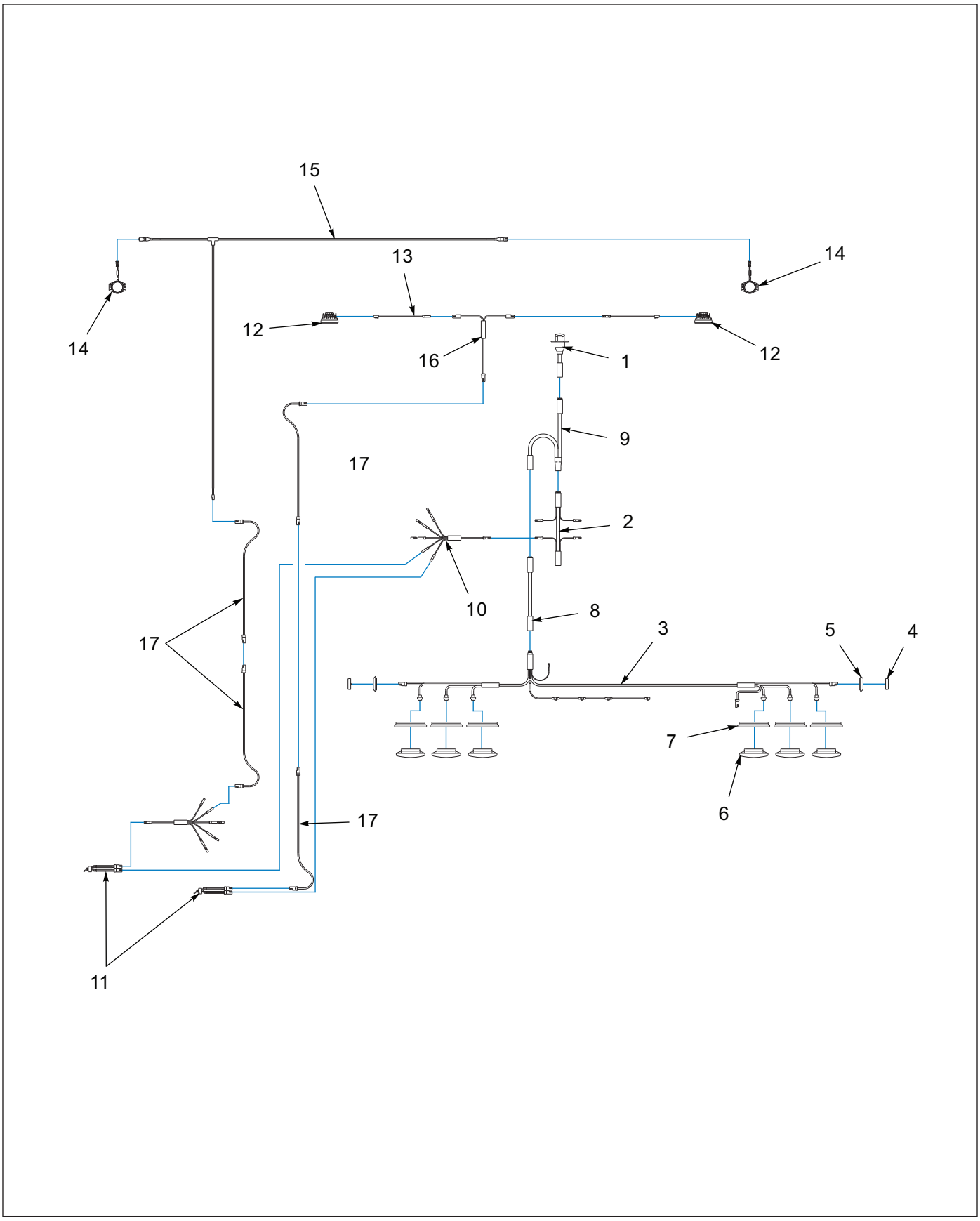


Figure 1-79: Bulkhead Chain Rack Light Electrical Assembly

Bulkhead Chain Rack Light Electrical Assembly

ITEM	PART NO.	DESCRIPTION	QTY.	
	167971	BULKHEAD CHAIN RACK S/T/T WORK LIGHT	*	
	176286	BULKHEAD CHAIN RACK S/T/T W/ STROBE		*
1	143100	HARNESS, 7 WAY RECEPTACLE	REF	REF
2	143101	HARNESS, FRONT MAIN	REF	REF
3	143104	HARNESS, BUMPER	1	1
4	143109	LIGHT, YELLOW LED 2.5 CL/MARKER	2	2
5	143110	GROMMET, 2.5 SURFACE MOUNT	2	2
6	143113	LIGHT, RED LED OVAL STT	6	6
7	143114	GROMMET, OVAL	6	6
8	143167	HARNESS EXTENSION, 84”	1	1
9	146929	HARNESS, Y SPLITTER	1	1
10	150093	HARNESS, 5 AUXILIARY BRANCHES	REF	1
11	150117	TOGGLE SWITCH SEALED SPST	1	1
12	163996	LIGHT LED WHITE FLOOD LAMP	2	2
13	164052	HARNESS, 60” BRANCH WORK LIGHT	2	2
14	165788	STROBE LIGHT MODIFIED ASSEMBLY	- -	2
15	165789	HARNESS ASSEMBLY, STROBE BEACON	- -	1
16	169853	HARNESS, JUMPER T-POWER	1	1
17	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	2	4

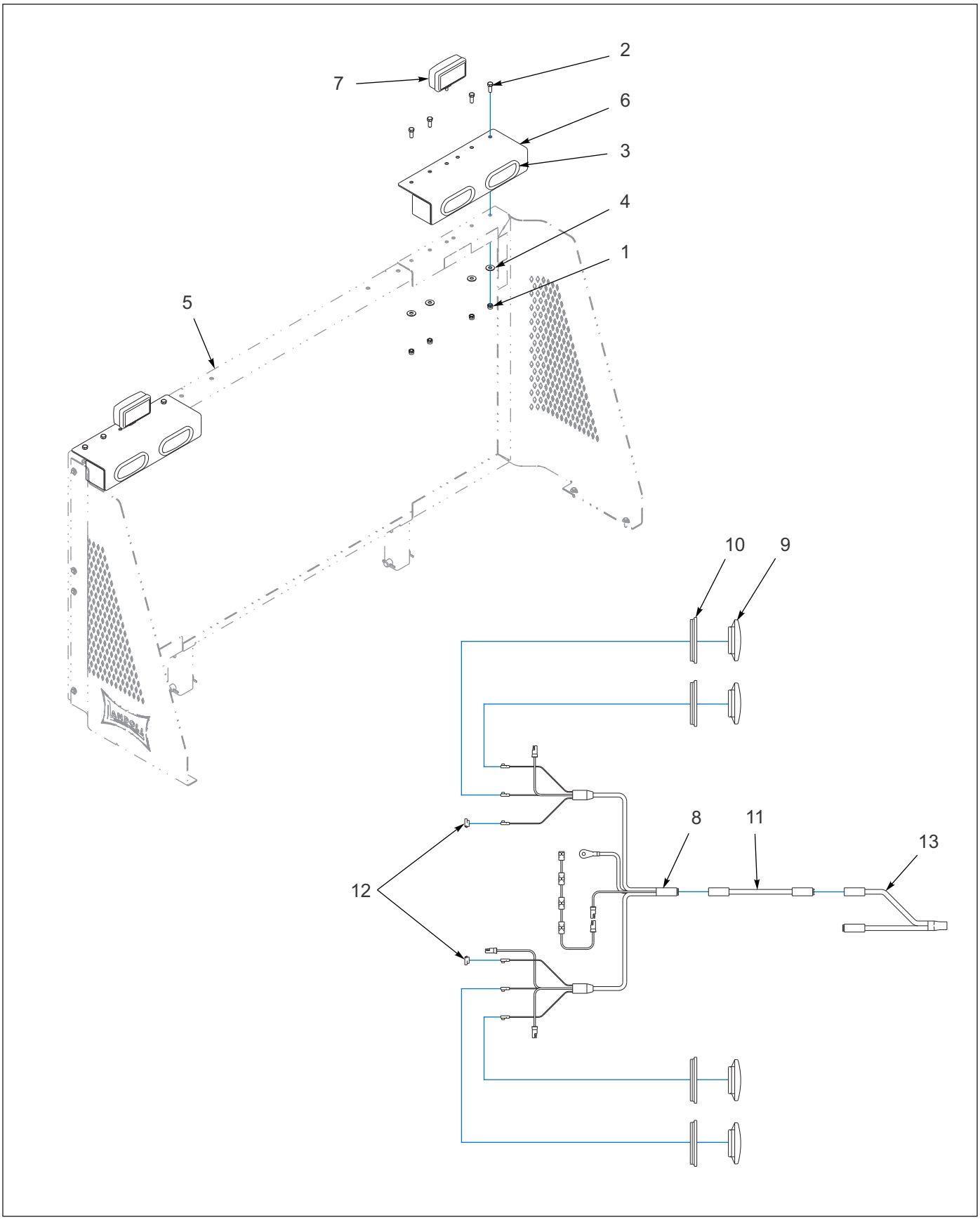


Figure 1-80: Bulkhead Stop/Tail/Turn Light Assembly

Bulkhead Stop/Tail/Turn Light Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	167840	BULKHEAD STOP/TAIL/TURN LIGHT ASSEMBLY	- -
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	8
3	1-822-010002	TRIM-LOK 3/16 **(NOT SHOWN)**	4
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	- - - - -	BULKHEAD INSTALLATION	REF
6	167843	MOUNT WELDMENT, STOP/TURN/TAIL	2
7	64181	RECT QUARTZ HALOGEN LAMP	REF
8	143104	HARNESS, REAR LED	1
9	143113	LIGHT, RED LED OVAL STT	4
10	143114	GROMMET, OVAL	4
11	143167	HARNESS EXTENSION, 84”	1
12	144608	DUMMY PLUG FOR FEMALE PLUG	2
13	146929	HARNESS, Y SPLITTER	1

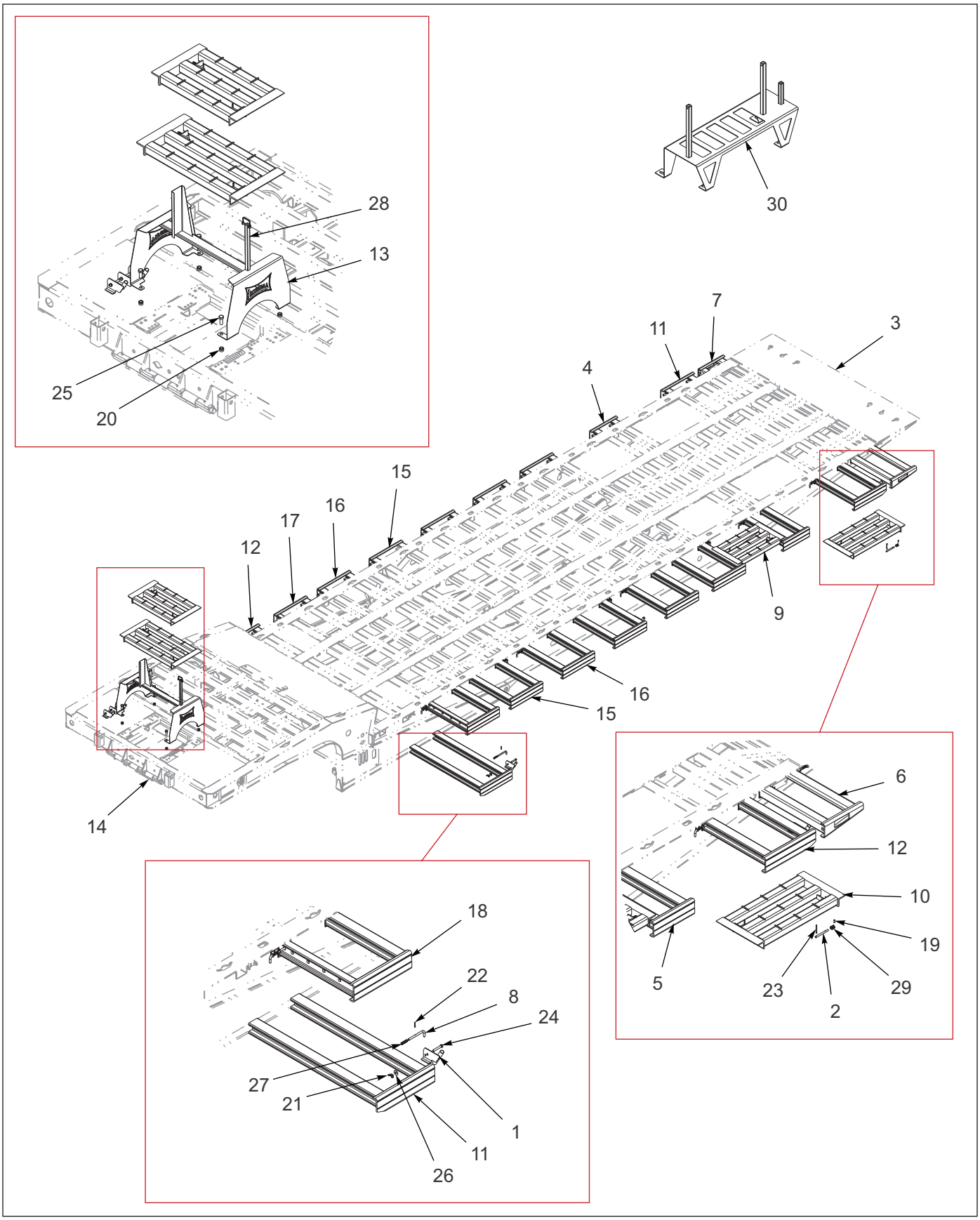


Figure 1-81: Pullout Installation - 425

Pullout Installation - 425

ITEM	PART NO.	DESCRIPTION	QTY.	
	120461	PULLOUT INSTALLATION 425-41	*	
	131784	PULLOUT EXTENSION INSTALLATION 425-45		*
1	108859	WELDMENT, BRACKET FLAG HOLDER	6	6
2	118723	PIN, SLIDE LOCK EXT	8	8
3	- - - - -	FRAME WELDMENT	REF	REF
4	120376	PULLOUT ASSEMBLY 18RH	1	1
5	120377	PULLOUT ASSEMBLY 18LH	1	1
6	120379	EXTENSION REAR P/O LH	1	1
7	120380	EXTENSION REAR P/O RH	1	1
8	120457	PIN, P/O EXT LOCK	20	22
9	120491	EXT. WLDMT FRT WHEEL WELL	2	2
10	120492	EXT. WLDMT REAR WHEEL WELL	2	2
11	122913	PULLOUT CLIPPED RH	2	2
12	122916	PULLOUT CLIPPED LH	2	2
13	130553	RACK WELDMENT, PULLOUT	1	1
14	- - - - -	FRAME ASSEMBLY, G/N	REF	REF
15	131738	PULLOUT WELDMENT RH	5	6
16	131739	PULLOUT WELDMENT LH	5	6
17	131740	PULLOUT WELDMENT FRT RH	1	1
18	131741	PULLOUT WELDMENT FRT LH	1	1
19	0600-250-01000	PIN, ROLL 1/4 X 1	8	8
20	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4	4
21	1-533-010001	NUT, WING 1/2-13	6	6
22	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	20	22
23	1-647-010004225	PIN, ROLL 1/4 X 3	8	8
24	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	6	6
25	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4	4
26	1-861-010032-15	WASHER, FLAT 1/2W	6	6
27	104253	SPRING, COMPRESSION P/O EXT LOCK	20	22
28	516-22PTL	RETAINING PIN MUD FLAP	1	1
29	CO-975-74-2000	SPRING, COMPRESSION	8	8
30	120822	SUPPORT WELDMENT P/O EXT	1	- - - - -

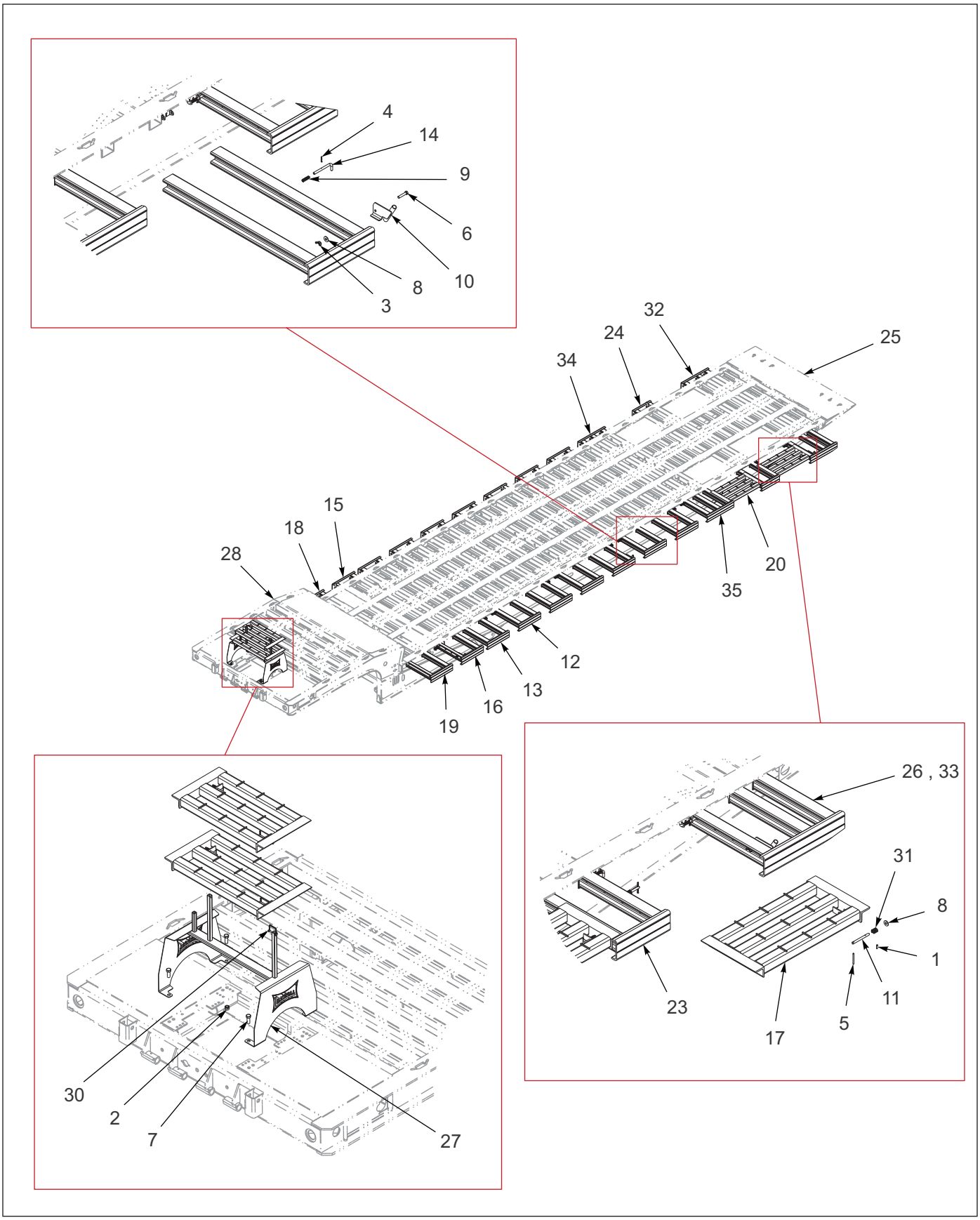


Figure 1-82: Pullout Installation - 440

Pullout Installation - 440

ITEM	PART NO.	DESCRIPTION	QTY.		
	130543	PULLOUT EXTENSION INSTALLATION 440-48	*		
	131108	PULLOUT EXTENSION INSTALLATION 440-50CA		*	
	131131	PULLOUT EXTENSION INSTALLATION 440-53			*
1	0600-250-01000	PIN, ROLL 1/4 X 1	8	8	8
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4	4	4
3	1-533-010001	NUT, WING 1/2-13	6	6	6
4	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	24	26	28
5	1-647-010004225	PIN, ROLL 1/4 X 3	8	8	8
6	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6	6	6
7	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4	4	4
8	1-861-010032-15	WASHER, FLAT 1/2W	6	6	6
9	104253	SPRING, COMPRESSION P/O EXT LOCK	24	26	28
10	108859	WELDMENT, BRACKET FLAG HOLDER	6	6	6
11	118723	PIN, SLIDE LOCK EXT	8	8	8
12	118929	PULLOUT ASSEMBLY LH	7	8	10
13	118930	PULLOUT ASSEMBLY RH	7	8	10
14	120457	PIN, P/O EXT LOCK	24	26	28
15	120458	PULLOUT ASSEMBLY FRT RH	1	1	1
16	120459	PULLOUT ASSEMBLY FRT LH	1	1	1
17	120492	EXT. WLDMT REAR WHEEL WELL	2	2	2
18	131232	PULLOUT WELDMENT AL FRT LH	1	1	1
19	131233	PULLOUT WELDMENT AL FRT RH	1	1	1
20	126609	EXTENSION WELDMENT FRT WHEEL WELL	2	2	2
21	130584	PULLOUT WELDMENT AL RH 36/14&14	- -	1	- -
22	130583	PULLOUT WELDMENT AL LH 36/14&14	- -	1	- -
23	130546	PULLOUT WELDMENT AL RH	1	1	1
24	130547	PULLOUT WELDMENT AL LH	1	1	1
25	- - - - -	FRAME WELDMENT	REF	REF	REF
26	130585	PULLOUT WELDMENT AL REAR LH	- -	1	- -
27	130553	RACK WELDMENT, PULLOUT	1	1	1
28	- - - - -	FRAME ASSEMBLY, G/N	REF	REF	REF
29	130586	PULLOUT WELDMENT AL REAR RH	- -	1	- -
30	516-22PTL	RETAINING PIN MUD FLAP	1	1	1
31	CO-975-74-2000	SPRING, COMPRESSION	8	8	8
32	130548	PULLOUT WELDMENT AL REAR RH	1	- -	1
33	130549	PULLOUT WELDMENT AL REAR LH	1	- -	1
34	130544	PULLOUT WELDMENT AL RH 27/10&10	1	- -	- -
35	130545	PULLOUT WELDMENT AL LH 27/10&10	1	- -	- -

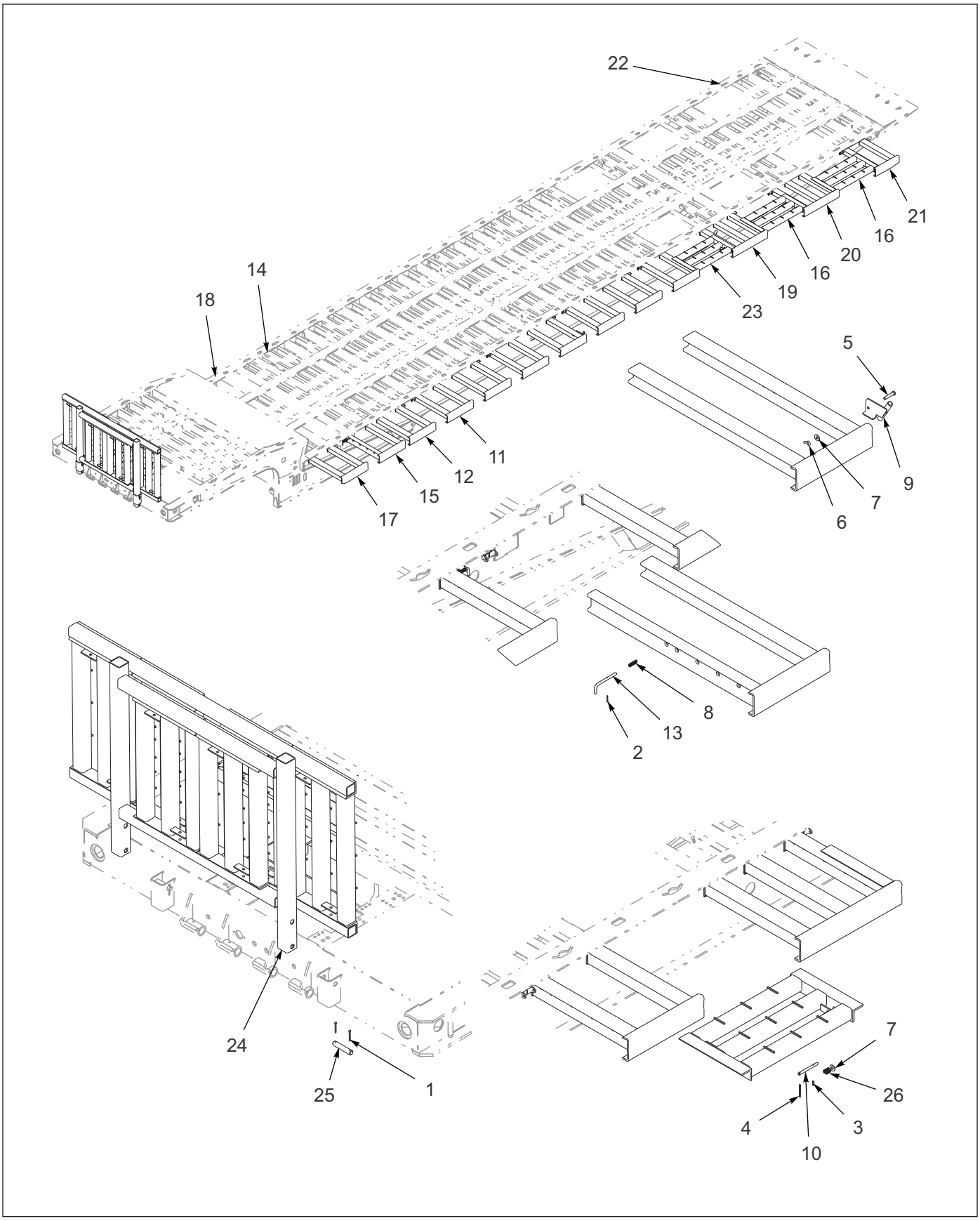


Figure 1-83: Pullout Installation - 455 (1 of 3)

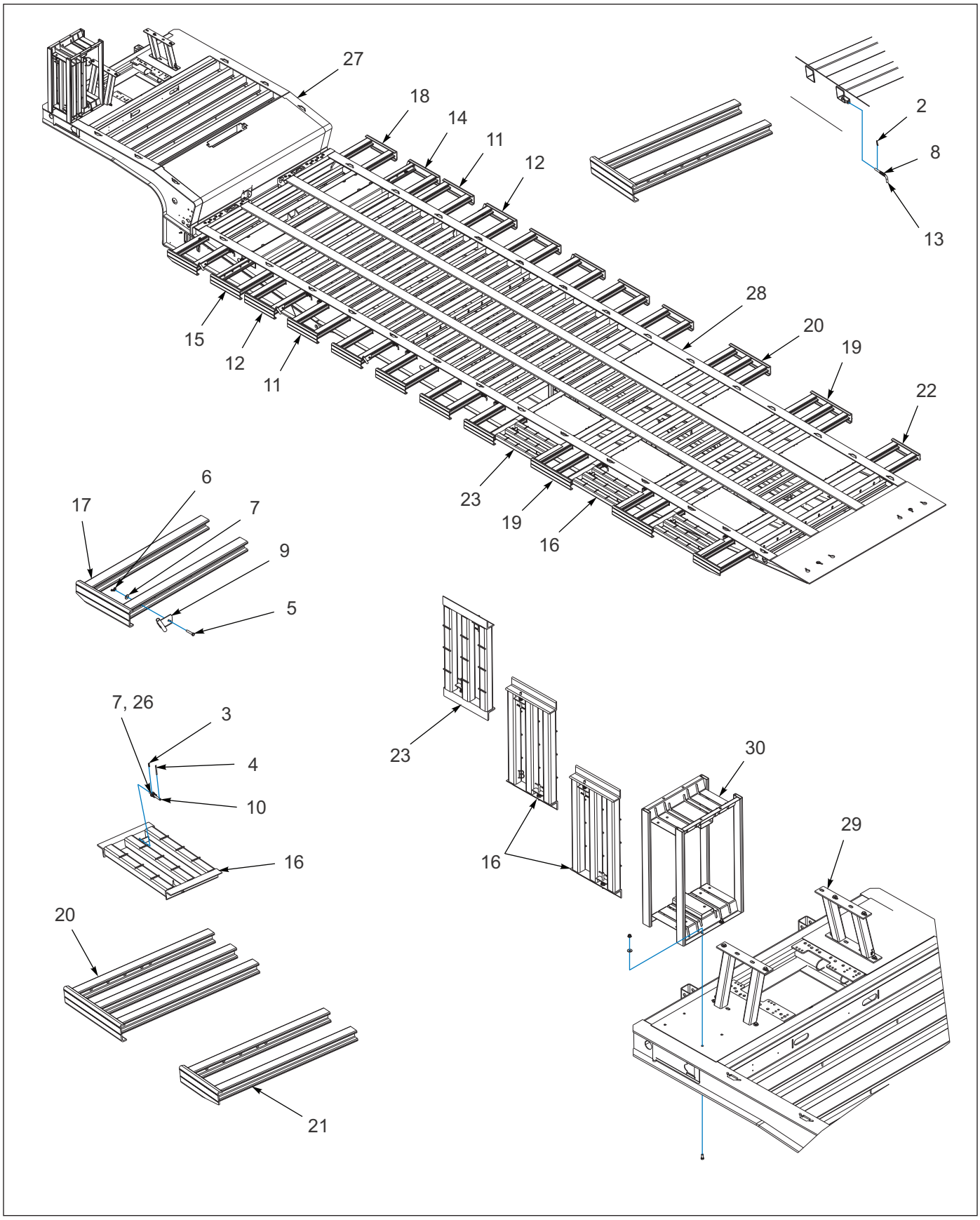


Figure 1-84: Pullout Installation - 455 (2 of 3)

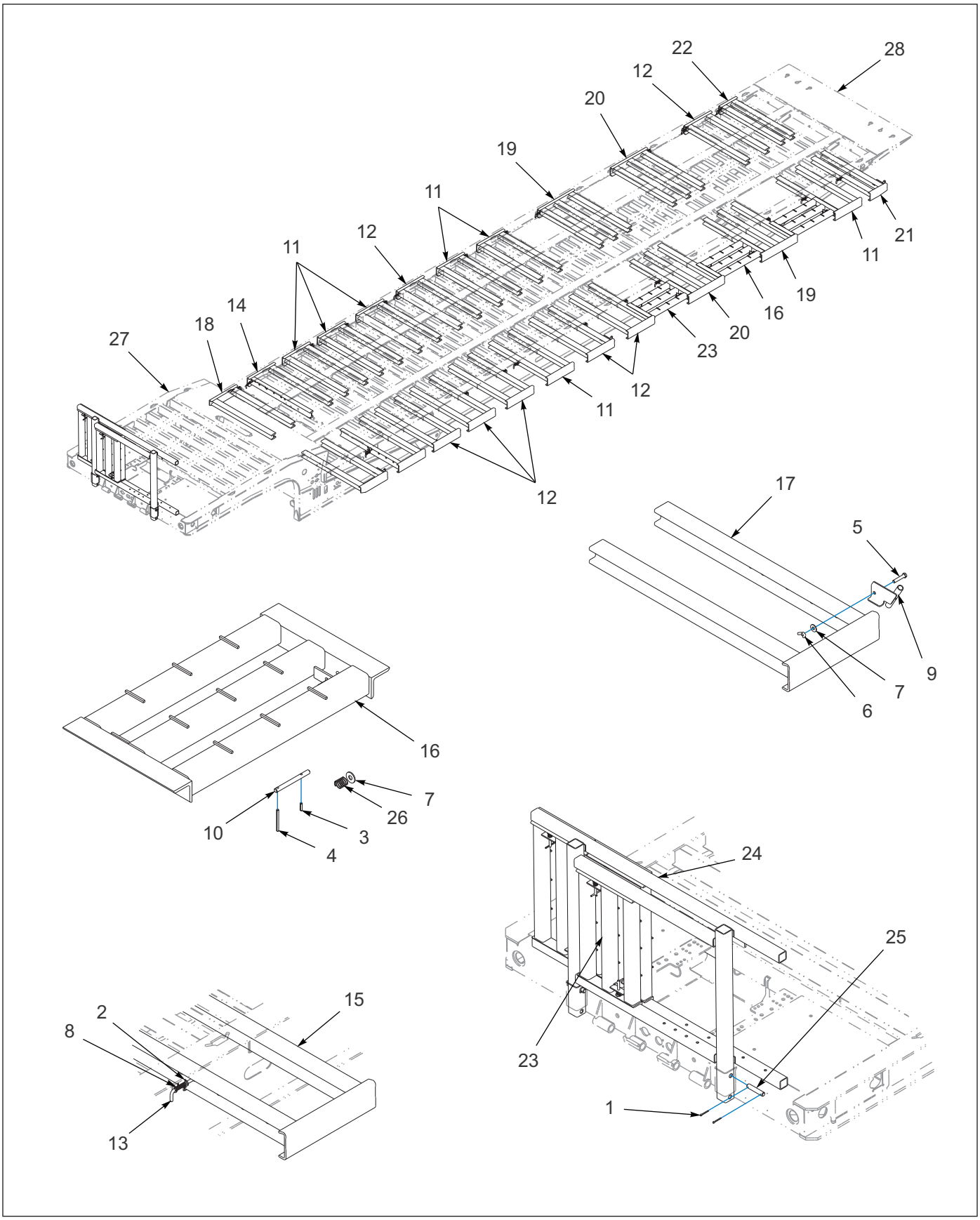


Figure 1-85: Pullout Installation - 455 (3 of 3)

Pullout Installation - 455

ITEM	PART NO.	DESCRIPTION	QTY.			
	126601	PULLOUT EXTENSION INSTALLATION 455-53	*			
	136396	PULLOUT EXTENSION INSTALLATION 455-50		*		
	170378	PULLOUT EXTENSION INSTALLATION 455-48			*	
	173511	PULLOUT EXTENSION INSTALLATION 455-50CA				*
1	1-557-010362-63	PIN, COTTER 1/4 X 2	4	4	- -	4
2	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	26	24	22	- -
3	1-647-010004213	PIN, SPRING SLOTTED 1/4 X1	12	- -	12	- -
3	0600-250-01000	PIN, ROLL 1/4 X 1	- -	12	- -	12
4	1-647-010004225	PIN, ROLL 1/4 X 3	12	12	12	12
5	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6	6	6	6
6	1-533-010001	NUT, WING 1/2-13	6	6	6	6
7	1-861-010032-15	WASHER, FLAT 1/2W	18	18	18	18
8	104253	SPRING, COMPRESSION P/O EXT LOCK	26	24	22	24
9	108859	WELDMENT, BRACKET FLAG HOLDER	6	6	6	6
10	118723	PIN, SLIDE LOCK EXT	12	12	12	12
11	118929	PULLOUT ASSEMBLY LH	8	6	6	7
12	118930	PULLOUT ASSEMBLY RH	8	6	6	7
13	120457	PIN, P/O EXT LOCK	26	24	22	24
14	120458	PULLOUT ASSEMBLY FRT RH	1	1	1	1
15	120459	PULLOUT ASSEMBLY FRT LH	1	1	1	1
16	120492	EXT. WLDMT REAR WHEEL WELL	4	4	4	4
17	122913	PULLOUT CLIPPED RH	1	1	1	1
18	122916	PULLOUT CLIPPED	1	1	1	1
19	126602	PULLOUT WELDMENT AL WHEEL WELL RH	2	2	2	2
20	126603	PULLOUT WELDMENT AL WHEEL WELL LH	2	2	2	2
21	126605	PULLOUT WELDMENT AL REAR LH	1	1	1	- -
21	130585	PULLOUT WELDMENT AL REAR LH	- -	- -	- -	1
22	126606	PULLOUT WELDMENT AL REAR RH	1	1	1	- -
22	130586	PULLOUT WELDMENT AL REAR RH	- -	- -	- -	1
23	126609	EXTENSION WELDMENT FRT WHEEL WELL	2	2	2	2
24	126610	RACK WLDMT STORAGE EXT BRIDGES	1	1	- -	1
25	2-557-010006	PIN, 1 X 6-1/2	2	- -	- -	- -
25	6-557-010163	PIN, 1 X 5-1/8	- -	2	- -	2
26	CO-975-74-2000	SPRING, COMPRESSION	12	12	12	12
27	- - - - -	FRAME ASSEMBLY, G/N	REF	REF	REF	REF
28	- - - - -	FRAME WELDMENT	REF	REF	REF	REF
29	136578	UPPER DECK STAND INSTALLATION	- -	- -	REF	- -
30	136828	RACK, UPPER DECK EXTENSION BRIDGE STORAGE **(USED W/ ENG PKG)**	- -	- -	1	- -

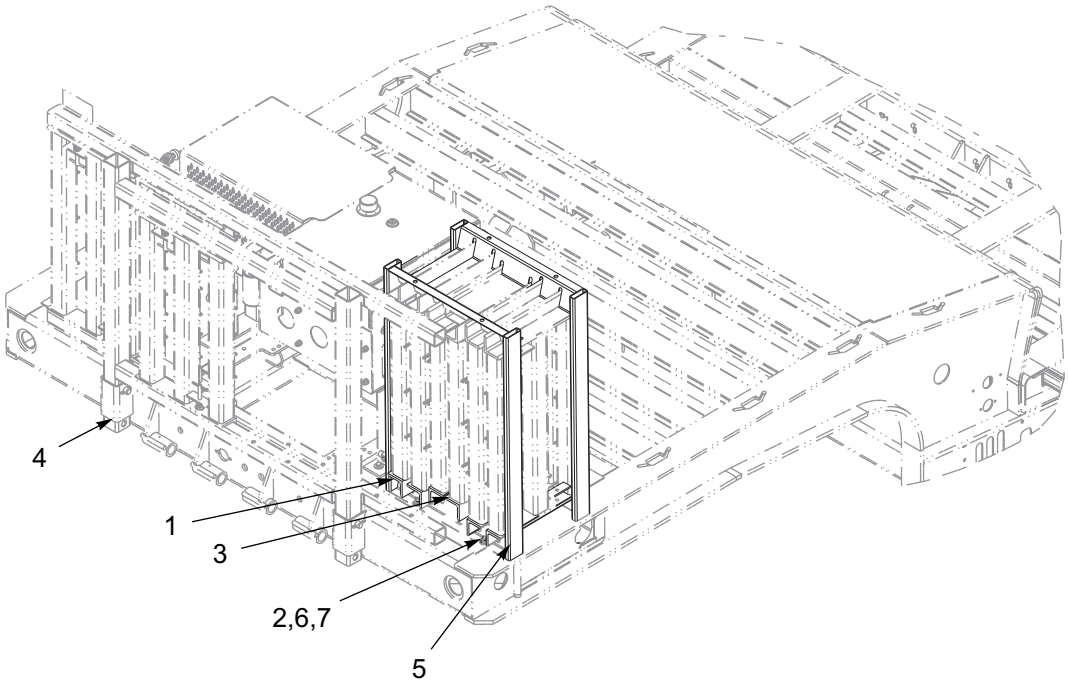


Figure 1-86: Upper Deck Extension Bridge Storage Rack

Upper Deck Extension Bridge Storage Rack

ITEM	PART NO.	DESCRIPTION	QTY.
	136828	UPPER DECK EXTENSION BRIDGE STORAGE RACK **(OPTION)**	- -
1	120492	EXTENSION WELDMENT, REAR WHEEL WELL	REF
2	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	4
3	126609	EXTENSION WELDMENT, FRONT WHEEL WELL	REF
4	- - - - -	P/O EXTENSION INSTALLATION	REF
5	136829	RACK WELDMENT U/D STOR EXT BRIDGE	1
6	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
7	1-861-010032-15	WASHER, FLAT 1/2W	4

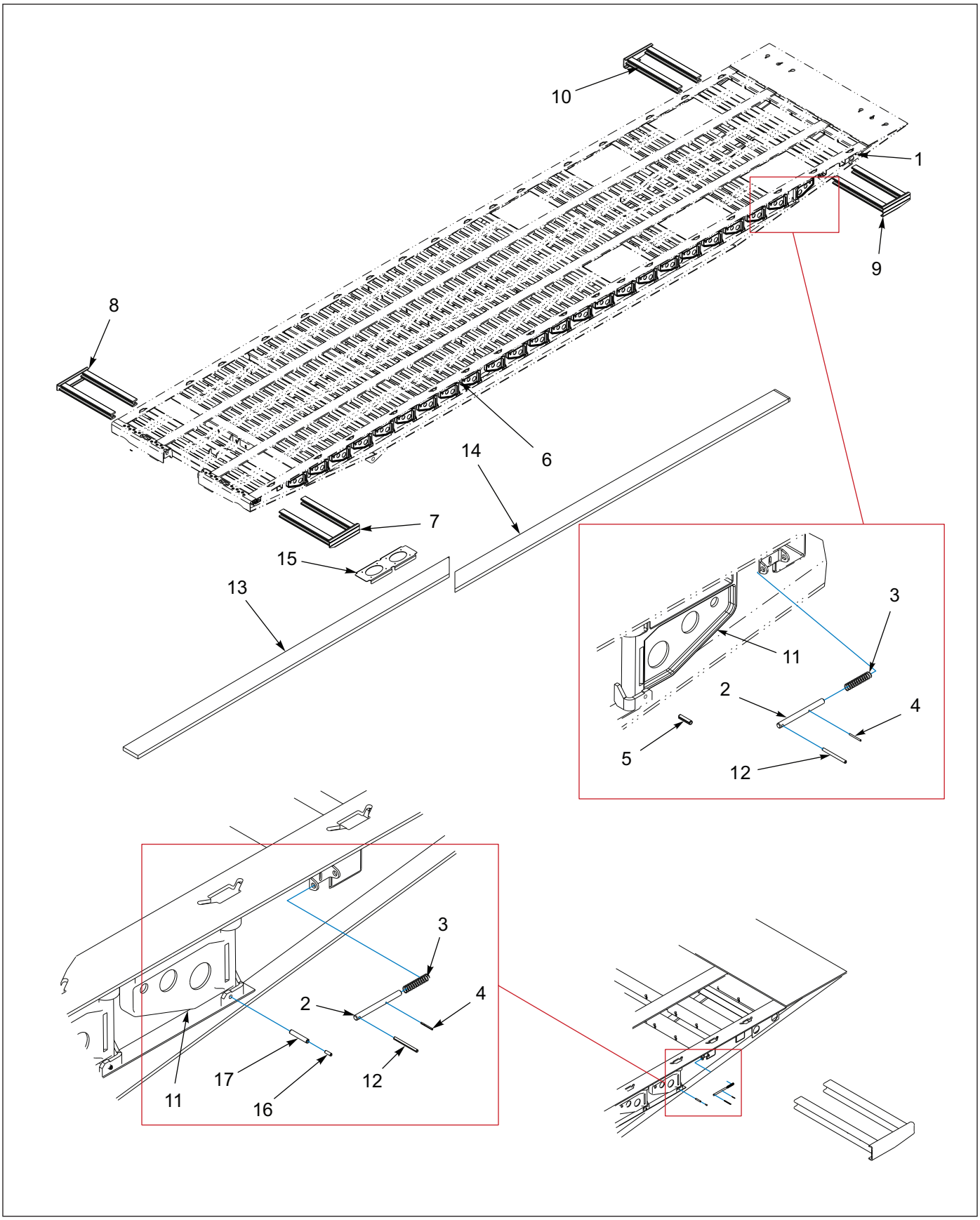
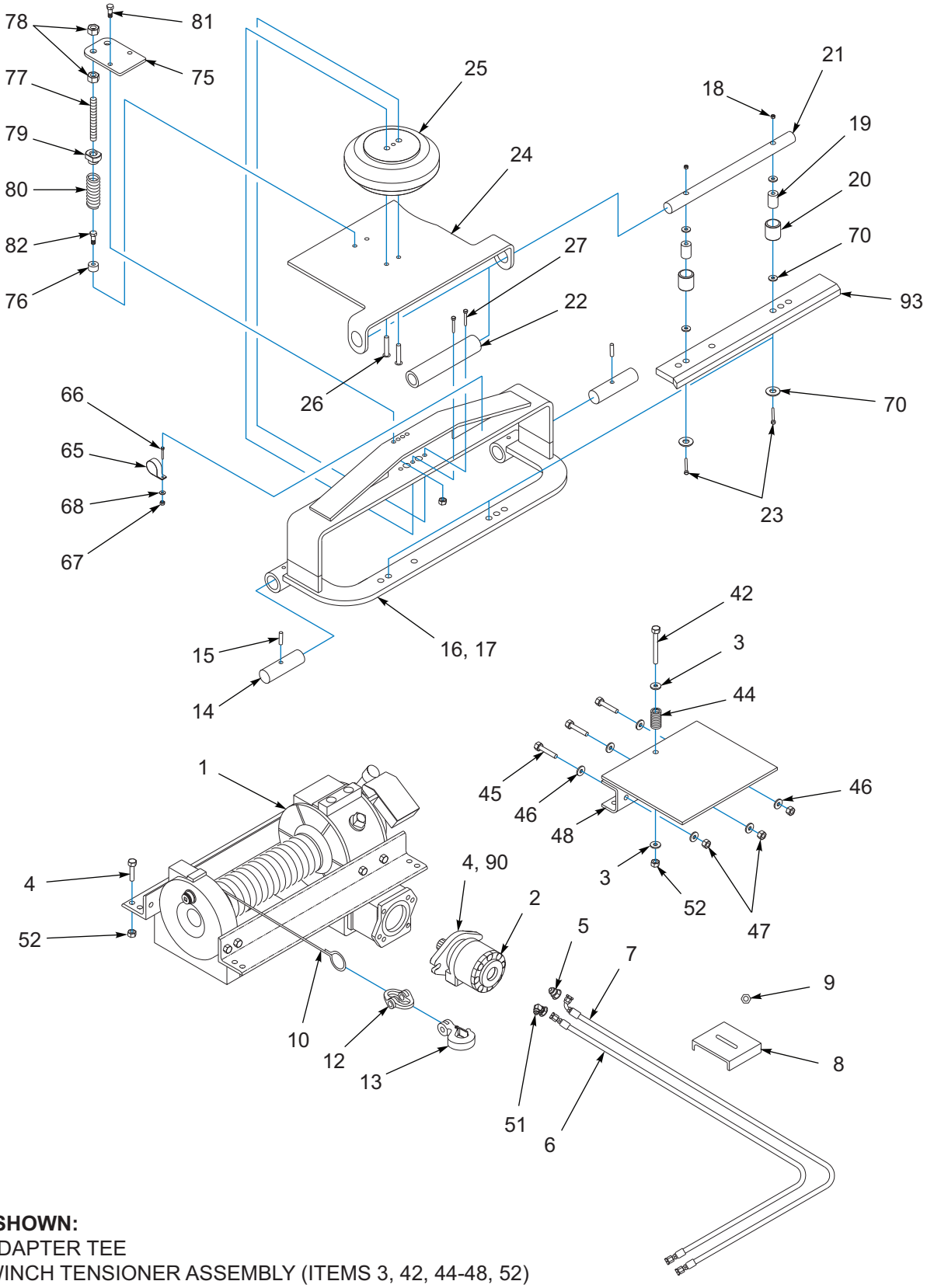


Figure 1-87: Outrigger Installation

Outrigger Installation

ITEM	PART NO.	DESCRIPTION	QTY.					
	128020	OUTRIGGER INSTALLATION **(455-50)**	*					
	136399	OUTRIGGER INSTALLATION **(455-53)**		*				
	137894	OUTRIGGER INSTALLATION **(440-48)**			*			
	150188	OUTRIGGER INSTALLATION **(440-53)**				*		
	152673	OUTRIGGER INSTALLATION **(440-41)**					*	
	141628	OUTRIGGER PLANKS						*
1	1-343-010007	GROMMET	2	2	- -	- -	- -	- -
2	128539	PIN, SLIDE LOCK	4	4	4	4	4	- -
3	104253	SPRING, COMPRESSION P/O EXT LOCK	4	4	4	4	4	- -
4	125520	ROLL PIN, SLOTTED 1/8 X 1-1/2	4	4	4	4	4	- -
5	0600-375-01500	ROLL PIN, SLOTTED 3/8 X 1-1/2	48	52	- -	- -	- -	- -
6	- - - - -	FRAME WELDMENT	REF	REF	REF	REF	REF	REF
7	128226	PULLOUT WELDMENT FRONT LH	1	1	- -	- -	- -	- -
7	137892	PULLOUT WELDMENT ALUM FRT LH	- -	- -	1	1	1	- -
8	128227	PULLOUT WELDMENT FRONT RH	1	1	- -	- -	- -	- -
8	137893	PULLOUT WELDMENT ALUM FRT RH	- -	- -	1	1	1	- -
9	128228	PULLOUT WELDMENT REAR LH	1	1	1	1	1	- -
10	128229	PULLOUT WELDMENT REAR RH	1	1	1	1	1	- -
11	167-0022	OUTRIGGER CAST FOR 10 CHANNEL	48	52	44	52	34	- -
12	1-647-010004225	ROLL PIN, SLOTTED 1/4 X 3	4	4	4	4	4	- -
13	141629	PLANK, OUTRIGGER FRONT	- -	- -	- -	- -	- -	2
14	141636	PLANK, OUTRIGGER REAR	- -	- -	- -	- -	- -	2
15	141637	SUPPORT, OUTRIGGER PLANK	- -	- -	- -	- -	- -	2
16	127711	ROLL PIN, SLOTTED 1/4 X 3/4	- -	- -	44	52	34	- -
17	127712	ROLL PIN, SLOTTED 3/8 X 2-1/4	- -	- -	44	52	34	- -

Retrieval System (OPTIONS)



NOT SHOWN:
91 - ADAPTER TEE
92 - WINCH TENSIONER ASSEMBLY (ITEMS 3, 42, 44-48, 52)

Figure 1-88: Winch Install, Braden 12K / 20K, 1 Speed (1 of 2)

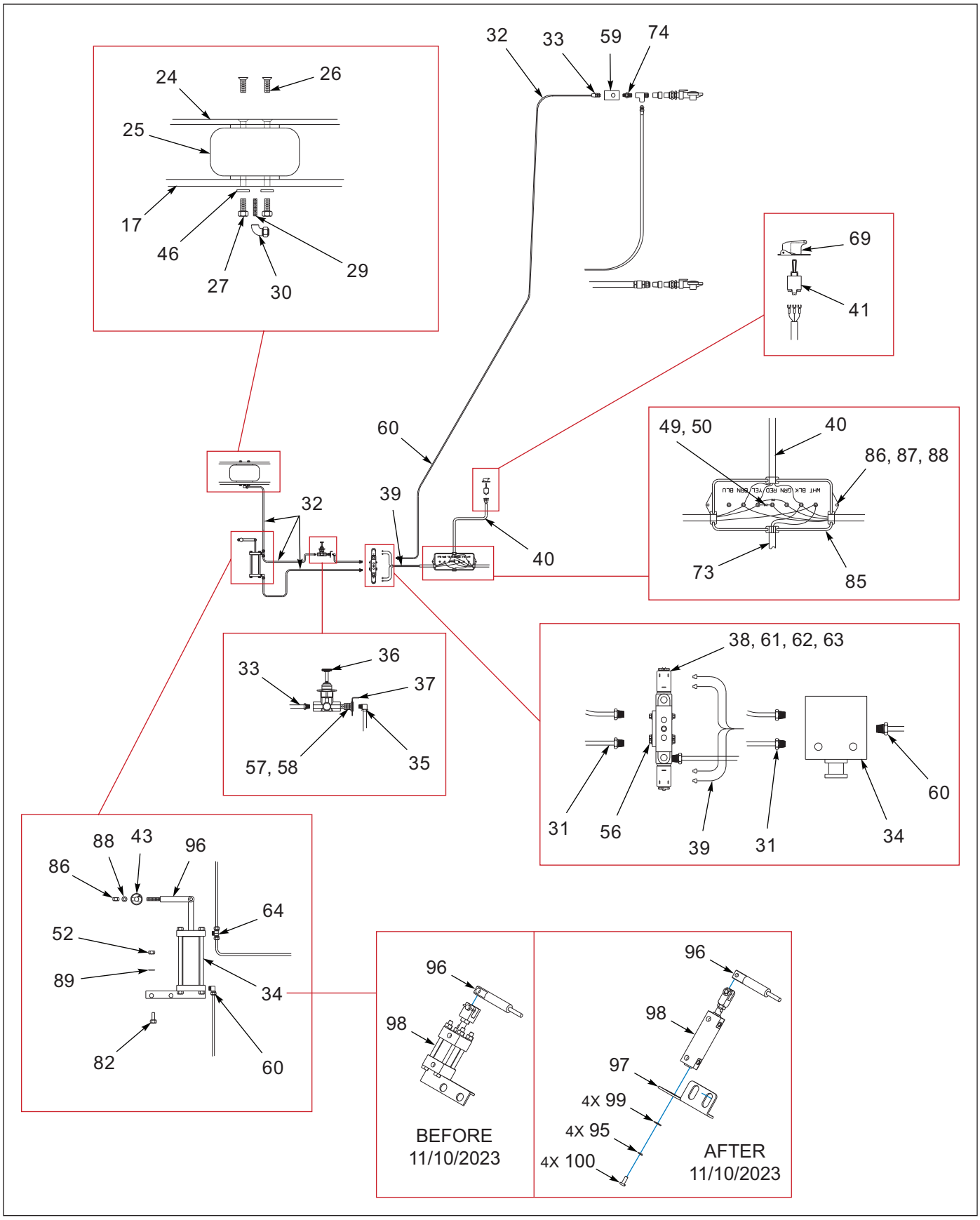


Figure 1-89: Winch Install, Braden 12K / 20K, 1 Speed (2 of 2)

Winch Install, Braden 12K / 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140-01	WINCH 20K SPRING TENSION BRADN	- -
	3-873-010144-01	WINCH 12K SPG TNSN BRADEN	- -
	123210	WINCH, 20K GUIDE AIR TEN/REL	- -
	141618	WINCH, 20K SPGTEN CBL RLR DUAL	- -
	148284	WINCH, 20K AT AS ROLLER	- -
	148703	WINCH, 20K SPG TENS	- -
1	3-873-010123	WINCH ASSEMBLY 20K	1
1	3-873-010122	WINCH ASSEMBLY 12K	1
2	3-481-010007	MOTOR, HYDRAULIC **(20K)**	1
2	3-481-010006	MOTOR, HYDRAULIC **(12K)**	1
3	1-861-010032-15	WASHER, FLAT 1/2	2
4	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	6
5	202702-10-8S	ADAPTER	1
6	1-397-010301170	HOSE ASSEMBLY	1
6	1-397-010301194	HOSE ASSEMBLY	1
7	1-397-010302172	HOSE ASSEMBLY	1
7	1-397-010302192	HOSE ASSEMBLY	1
8	2-181-010001	HOSE CLAMP	4
9	1-510-010001	NUT, FLANGE LOCK 3/8-16	4
10	3-155-010017-4	CABLE **(12K)** 85’ W/ LOOP	1
10	3-155-010018-6	CABLE **(20K)** 85’ W/ LOOP	1
11	3-174-010038	LINK	1
12	3-174-010039036	CHAIN **(NOT SHOWN)**	1
13	7HCGHT500	HOOK	1
14	119622	PIN, PIVOT WINCH ROLLER	2
15	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
16	3-125-010464	BRACKET WLDMT WINCH ROLLER	1
17	3-125-010465	BRACKET WLDMT WINCH TENSIONER	1
18	1-512-010005-13	NUT, HEX LOCK 5/8-11 GR8	2
19	3-150-010196	BUSHING, ROD ROLLER-600	2
20	3-831-010172	TUBE, ROLLER SIDE	2
21	102188	ROD, PIVOTING GUIDE **(20K)**	1
21	3-642-010150	ROD, ROLLER TOP **(12K)**	1
22	3-831-010182	TUBE, ROLLER TOP - 600 **(20K)**	2
22	3-831-010151	TUBE, ROLLER TOP **(12K)**	1
23	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
23	1-654-010059-16	SCREW, HEX HEAD CAP 5/8-11 X 5-1/2 GR5	2
24	102187	WINCH TENSIONER PLATE **(20K)**	1
25	3-720-010042	SPRING, AIR 6-1/2	1
26	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
27	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
29	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	1
30	1-297-010032-03	FITTING, AIR 90	1
31	1-297-010007-04	CONNECTOR PIPE TO TUBE	4
32	1-833-010001	NYLON TUBING 1/4 OD **(BY THE FOOT)**	- -
33	1-297-010007-05	FITTING, AIR	2
34	107368	CYLINDER AIR W/BRKT WNCH R/SP **(NEW STYLE CONVERSION KIT, INCLUDES ITEMS 95-100) (SEE PAGE 1-201)**	1
35	1-297-010008-07	FITTING, AIR 90	1

Winch Install, Braden 12K / 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
36	3-626-010004	REGULATOR, AIR PRESSURE	1
37	3-120-010445	BRACKET, PRESSURE REGULATOR	1
38	3-843-010022	VALVE, PNEUMATIC	1
39	3-368-010129	HARNESS ASSEMBLY SINGLE REMOTE	1
40	3-368-010187	HARNESS REMOTE SWITCH	1
41	1-765-010065	SWITCH, TOGGLE	1
42	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
43	3-150-010186	BUSHING WINCH REMOTE LEVER (20K)	1
44	3-720-010010	SPRING COMP LEVEL WIND	1
45	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
46	1-861-010032-10	WASHER, FLAT 3/8N	6
47	1-512-010005-05	NUT, HEX 3/8-16	3
48	102186	WINCH TENSIONER WLDMT **(20K)**	1
48	3-873-010124	WINCH TENSIONER WLDMT **(12K)**	1
49	2-272-010109	ZENOR DIODE **(20K)**	2
50	1-879-010010	WIRE, WHITE **(NOT SHOWN)**	AR
51	2062-10-8S	ADAPTER, 90	1
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	19
53	119621	ANCHOR CABLE GUIDE WINCH **(NOT SHOWN)**	2
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	2
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1, 2
60	1-297-010008-05	FITTING, AIR 90	3
61	1-654-010024014	SCREW, MACH SLOT 6-32 X 1-1/2	3
62	1-861-010032-01	WASHER, FLAT #6	3
63	1-512-010003-02	NUT, HEX LOCK 6-32	1
64	1-297-010015-02	FITTING, AIR BRANCH TEE **(20K)**	REF
65	125892	SUPPORT CLAMP	1
66	1-654-010024055	SCREW, MACH. #10-24 X 1-1/4	1
67	1-512-010004-03	NUT, HEX LOCK #10-24	1
68	1-861-010034-07	WASHER, SPLIT LOCK #10	1
69	3-348-010048	GUARD SWITCH -3 POSITION	1
70	1-861-010032-18	WASHER, FLAT 5/8N **(20K)**	2
73	3-368-010188	HARNESS POWER JUMPER 660	1
74	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
75	3-565-011688	PLATE F/W SPRING TENSION - 600	1
76	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION - 600	2
77	RTR7999X4ZP	ROD THREADED	2
78	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
79	3-522-010017	NUT F/W SPRING TENSION - 600	2
80	3-720-010035	SPRING	2
81	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
82	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2, 3
83	100600	DECAL, WARNING WINCH **(NOT SHOWN)**	1
85	750-029	JUNCTION BOX 7-STUD	1
86	1-512-010007-05	NUT, HEX 1/4-20 GRB	2, 3
87	1-861-010032-06	WASHER, FLAT 1/4N	2
88	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2, 3

Winch Install, Braden 12K / 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
89	1-861-010032-14	WASHER, FLAT 1/2	2
90	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
91	2033-8-8S	ADAPTER, TEE **(NOT SHOWN)**	2
92	3-873-010178-3	WINCH TENSIONER ASSEMBLY 20K **(INCL 3, 42, 44-48, 52)**	REF
92	3-873-010178-1	WINCH TENSIONER ASSEMBLY 12K **(INCL 3, 42, 44-48, 52)**	REF
93	143246	RUB BAR, CABLE GUIDE WINCH	1
95	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34)**	4
96	- - - - -	LEVER WINCH FREE-SPOOL **(OBSOLETE, ORDER ITEM 34)**	- -
96	247863	LEVER WINCH FREE-SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34)**	1
97	247864	ANGLE WINCH FREE SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34 (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
98	- - - - -	CYLINDER AIR W/BRKT WNCH R/SP **(OBSOLETE, ORDER ITEM 34)**	- -
98	247865	CYLINDER AIR 1" STROKE SMC **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34) (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
99	25E10E	WASHER, FLAT #10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34)**	4
100	86G1008E	SCREW PAN HD SL #10-32X.50 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 34)**	4

Table provided for general use.

NOTES:

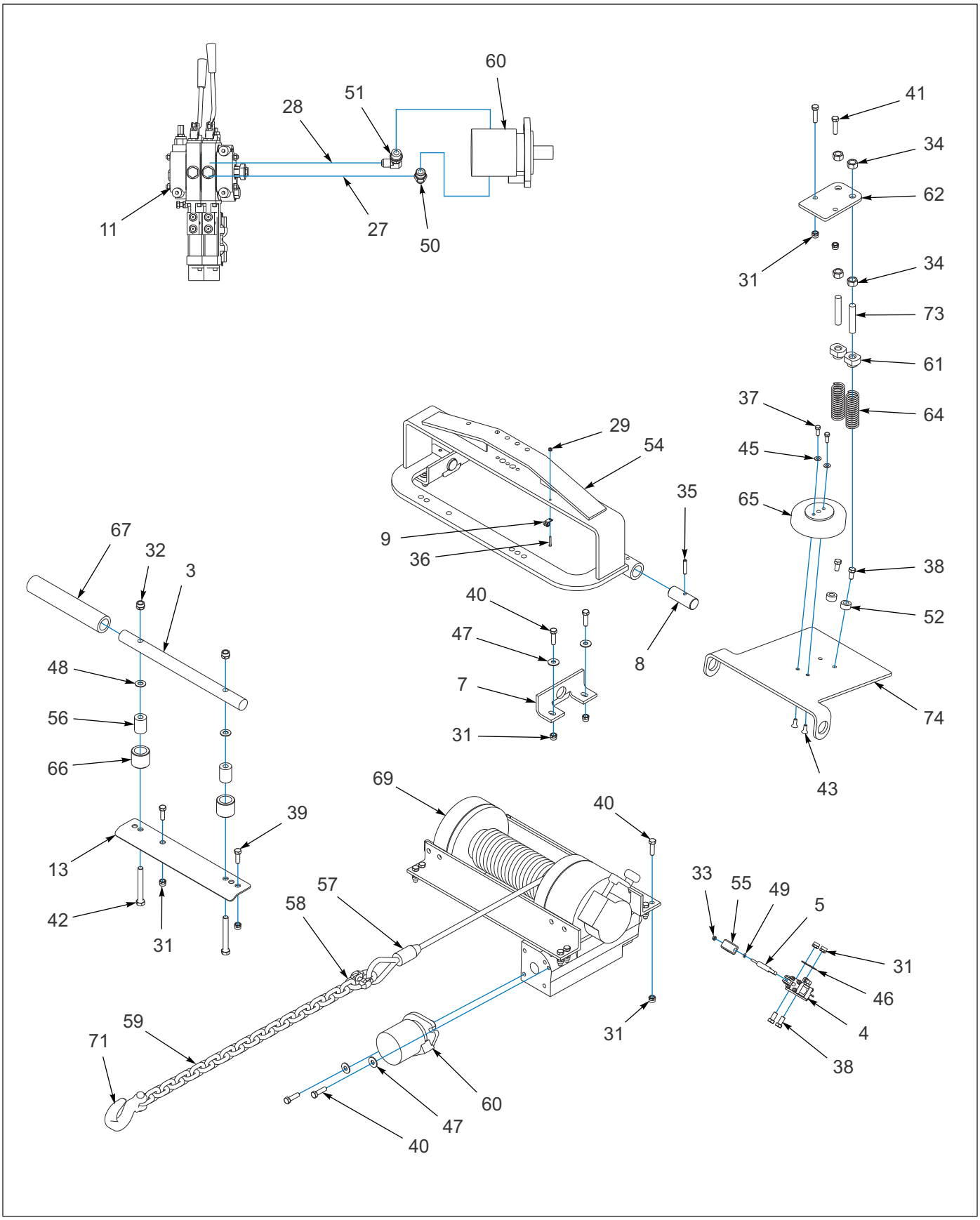


Figure 1-90: Winch Install, Braden 20K, Air Tension (1 of 2)

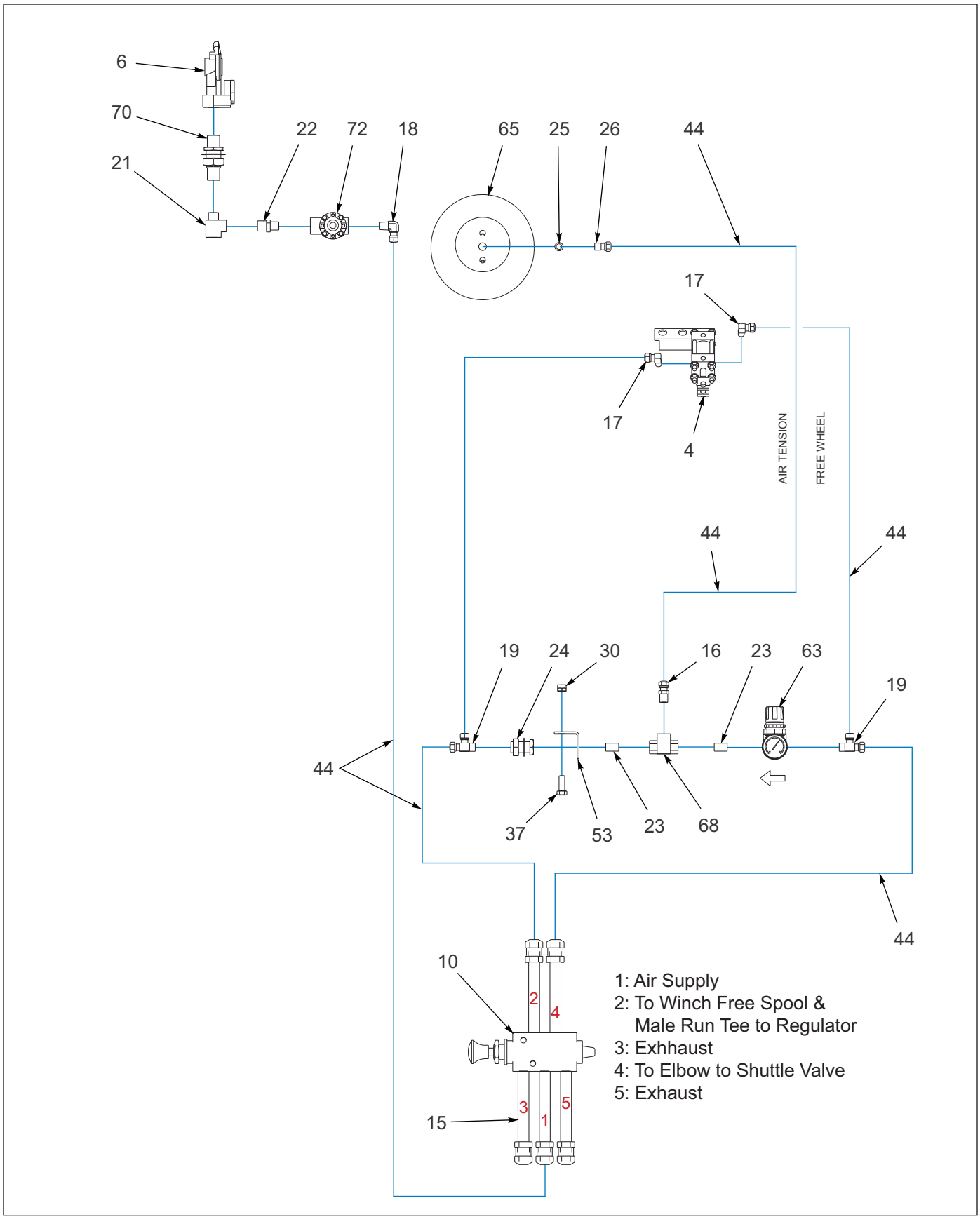


Figure 1-91: Winch Install, Braden 20K, Air Tension (2 of 2)

Winch Install, Braden 20K, Air Tension

ITEM	PART NO.	DESCRIPTION	QTY.
	162415	WINCH INSTALLATION, 20K GUIDE AIR TENSION/RELEASE	- -
1	100600	DECAL, WARNING WINCH **(NOT SHOWN)**	1
2	100600	DECAL, WARNING WINCH **(NOT SHOWN)**	1
3	102188	ROD, PIVOTING GUIDE **(20K)**	1
4	- - - - -	WINCH AIR SHIFT CYL **(20K) (OBSOLETE - SEE PAGE 1-201)**	1
5	- - - - -	LEVER WINCH FREE SPOOL **(OBSOLETE - SEE PAGE 1-201)**	1
6	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF
7	119621	ANCHOR CABLE GUIDE WINCH	2
8	119622	PIN, PIVOT WINCH ROLLER	2
9	125892	SUPPORT CLAMP	1
10	139552	VALVE, AIR 5 WAY/S POSITION	1
11	140802	VALVE ASSEMBLY	REF
12	- - - - -	FRAME WELDMENT	REF
13	143246	RUB BAR, CABLE GUIDE WINCH	1
15	1-297-010007-04	CONNECTOR PIPE TO TUBE	4
16	1-297-010007-05	FITTING, AIR	2
17	1-297-010008-05	FITTING, AIR 90	2
18	1-297-010008-07	FITTING, AIR 90	1
19	1-297-010011-02	FITTING, AIR M/RUN TEE	1
20	1-297-010015-03	FITTING, AIR BRANCH TEE	REF
21	1-297-010018-03	FITTING, BRS PIPE STR TEE	1
22	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
23	1-297-010020-02	FITTING, BRASS PIPE	1
24	1-297-010022-02	FITTING, AIR ANCHOR	1
25	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	1
26	1-297-010032-03	FITTING, AIR 90	1
27	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
28	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
29	1-512-010004-03	NUT, HEX LOCK #10-24	1
30	1-512-010005-05	NUT, HEX 3/8-16	3
31	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	19
32	1-512-010005-13	NUT, HEX LOCK 5/8-11 GR8	2
33	1-512-010007-05	NUT, HEX 1/4-20 GRB	2, 3
34	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
35	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
36	1-654-010024055	SCREW, MACH. #10-24 X 1-1/4	1
37	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
38	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2, 3
39	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
40	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	6
41	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
42	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
43	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
44	1-833-010001	NYLON TUBING 1/4 OD	28FT
45	1-861-010032-10	WASHER, FLAT 3/8N	2
46	1-861-010032-14	WASHER, FLAT 1/2	2
47	1-861-010032-15	WASHER, FLAT 1/2	2
48	1-861-010032-18	WASHER, FLAT 5/8N **(20K)**	2
49	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2, 3

Winch Install, Braden 20K, Air Tension

ITEM	PART NO.	DESCRIPTION	QTY.
50	202702-10-8S	ADAPTER	1
51	2062-10-8S	ADAPTER, 90	1
52	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION - 600	2
53	3-120-010445	BRACKET, PRESSURE REGULATOR	1
54	3-125-010465	BRACKET WLDMT WINCH TENSIONER	1
55	3-150-010186	BUSHING WINCH REMOTE LEVER **(20K)**	1
56	3-150-010196	BUSHING, ROD ROLLER-600	2
57	3-155-010018-6	CABLE **(20K)** 85’ W/ LOOP	1
58	3-174-010038	LINK	1
59	3-174-010039036	CHAIN	1
60	3-481-010007	MOTOR, HYDRAULIC **(20K) (SEE PAGE 1-200)**	1
61	3-522-010017	NUT F/W SPRING TENSION - 600	2
62	3-565-011688	PLATE F/W SPRING TENSION - 600	1
63	3-626-010004	REGULATOR, AIR PRESSURE	1
64	3-720-010035	SPRING	2
65	3-720-010042	SPRING, AIR 6-1/2	1
66	3-831-010172	TUBE, ROLLER SIDE	2
67	3-831-010182	TUBE, ROLLER TOP - 600 **(20K)**	2
68	3-843-010039-02	VALVE, AIR SHUTTLE	1
69	3-873-010123	WINCH ASSEMBLY 20K	1
70	55B61	FRAME UNION	REF
71	7HCGHT500	HOOK	1
72	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1, 2
73	RTR7999X4ZP	ROD THREADED	2
74	102187	PLATE, WINCH TENSIONER 20K AIR	1

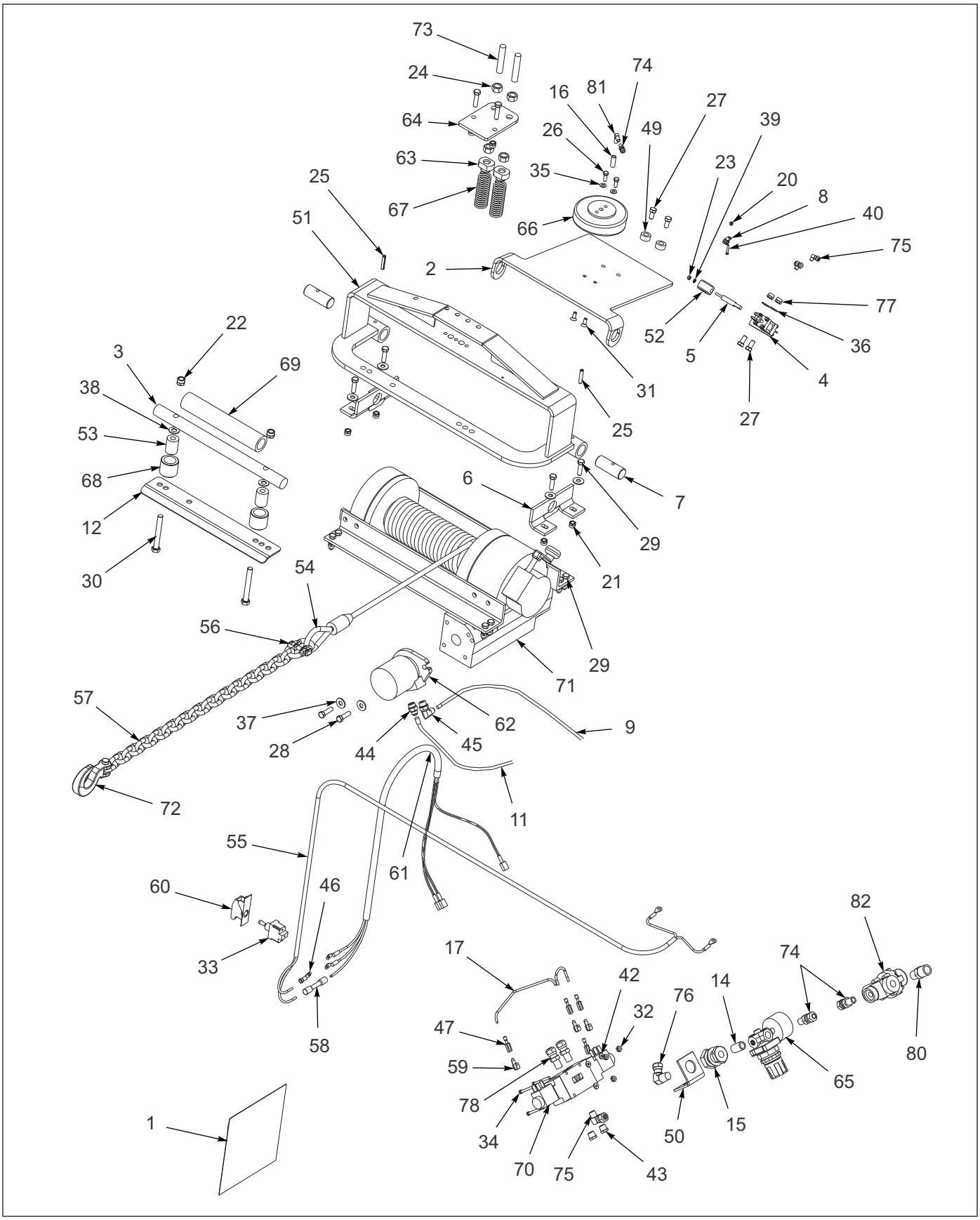


Figure 1-92: Winch Assembly, Braden 20K, Air Tension, Arctic

Winch Install, Braden 20K, Air Tension, Arctic

ITEM	PART NO.	DESCRIPTION	QTY.
	139929	WINCH 20K AT, A, ARCTIC W/O REMOTE	- -
1	100600	DECAL, WARNING WINCH	1
2	102187	WINCH TENSIONER PLATE	1
3	102188	ROD, PIVOTING GUIDE	1
4	- - - - -	WINCH AIR SHIFT CYL **(OBSOLETE - SEE PAGE 1-201)**	1
5	- - - - -	LEVER WINCH FREE SPOOL **(OBSOLETE - SEE PAGE 1-201)**	1
6	119621	ANCHOR CABLE GUIDE WINCH	2
7	119622	PIN, PIVOT WINCH ROLLER	2
8	125892	CLAMP, CABLE 3/8	1
9	139927	HOSE, 1/2 X 170 ARCTIC	1
10	126629	TUBING, NYLON 1/4 **(NOT SHOWN)**	AR
11	139928	HOSE, 1/2 X 172 ARCTIC	1
12	143246	RUB BAR CABLE GUIDE WINCH	1
14	1-297-010020-02	FITTING, BRASS PIPE	1
15	1-297-010022-02	FITTING, AIR ANCHOR	1
16	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	1
17	1-879-010010	WIRE, WHITE 14 AWG	AR
20	1-512-010004-03	NUT, HEX LOCK #10-24	1
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	16
22	1-512-010005-13	NUT, HEX LOCK 5/8-11 GR8	2
23	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
24	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
25	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
26	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
27	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	4
28	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	14
29	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
30	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
31	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
32	1-512-010003-02	NUT, HEX LOCK 6-32	3
33	1-765-010065	SWITCH, TOGGLE	1
34	1-654-010024014	SCREW, MACH SLOT 6-32 X 1-1/2	3
35	1-861-010032-10	WASHER, FLAT 3/8N	2
36	1-861-010032-14	WASHER, FLAT 1/2N	2
37	1-861-010032-15	WASHER, FLAT 1/2W	6
38	1-861-010032-18	WASHER, FLAT 5/8N	2
39	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
40	1-654-010024055	SCREW, MACH SLOTTED FIL HEAD #10-24 X 1-1/4	1
42	1-861-010032-01	WASHER, FLAT #6	3
43	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	2
44	202702-10-8S	ADAPTER	1
45	2062-10-8S	ADAPTER, 90	1
46	239-3646-4	TERMINAL	3
47	239-3650-1	TERMINAL, FEMALE SLIP ON 14 AWG	4
49	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION - 600	2
50	3-120-010445	BRACKET, PRESSURE REGULATOR	1
51	3-125-010465	BRACKET WLDMT WINCH TENSIONER	1
52	3-150-010186	BUSHING WINCH REMOTE LEVER **(20K)**	1
53	3-150-010196	BUSHING, ROD ROLLER-600	2

Winch Install, Braden 20K, Air Tension, Arctic

ITEM	PART NO.	DESCRIPTION	QTY.
54	3-155-010018-6	CABLE 85' W/ LOOP	REF
55	3-156-010008	CABLE, 14-2 SO TWO CONDUCTOR	AR
56	3-174-010038	LINK	1
57	3-174-010039036	CHAIN	1
58	3-272-010021	ELECT BUTT SPLICE 16/14 W/ SEAL	3
59	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSH-ON	3
60	3-348-010048	GUARD SWITCH -3 POSITION	1
61	3-368-010129	HARNESS ASSEMBLY SINGLE REMOTE	1
62	3-481-010007	MOTOR, HYDRAULIC **(20K) (SEE PAGE 1-200)**	1
63	3-522-010017	NUT F/W SPRING TENSION - 600	2
64	3-565-011688	PLATE F/W SPRING TENSION - 600	1
65	3-626-010004	REGULATOR, AIR PRESSURE **(SET AT 65 PSI)**	1
66	3-720-010042	SPRING, AIR 6-1/2	1
67	3-720-010035	SPRING	2
68	3-831-010172	TUBE, ROLLER SIDE	2
69	3-831-010182	TUBE, ROLLER TOP - 600 **(20K)**	1
70	3-843-010022	VALVE, PNEUMATIC	1
71	3-873-010123	WINCH ASSEMBLY 20K	1
72	7HCGHT500	HOOK	1
73	RTR7999X4ZP	ROD THREADED	2
74	126672	FITTING, COMPRESS, STRAIGHT	3
75	126676	FITTING, AIR 90	2
76	126677	FITTING, AIR 90	1
77	126679	FITTING, COMPRESSION TEE	1
78	126791	FITTING, COMPRESS	2
80	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
81	118-2676-2	ELBOW 90	1
82	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1

Table provided for general use.

NOTES:

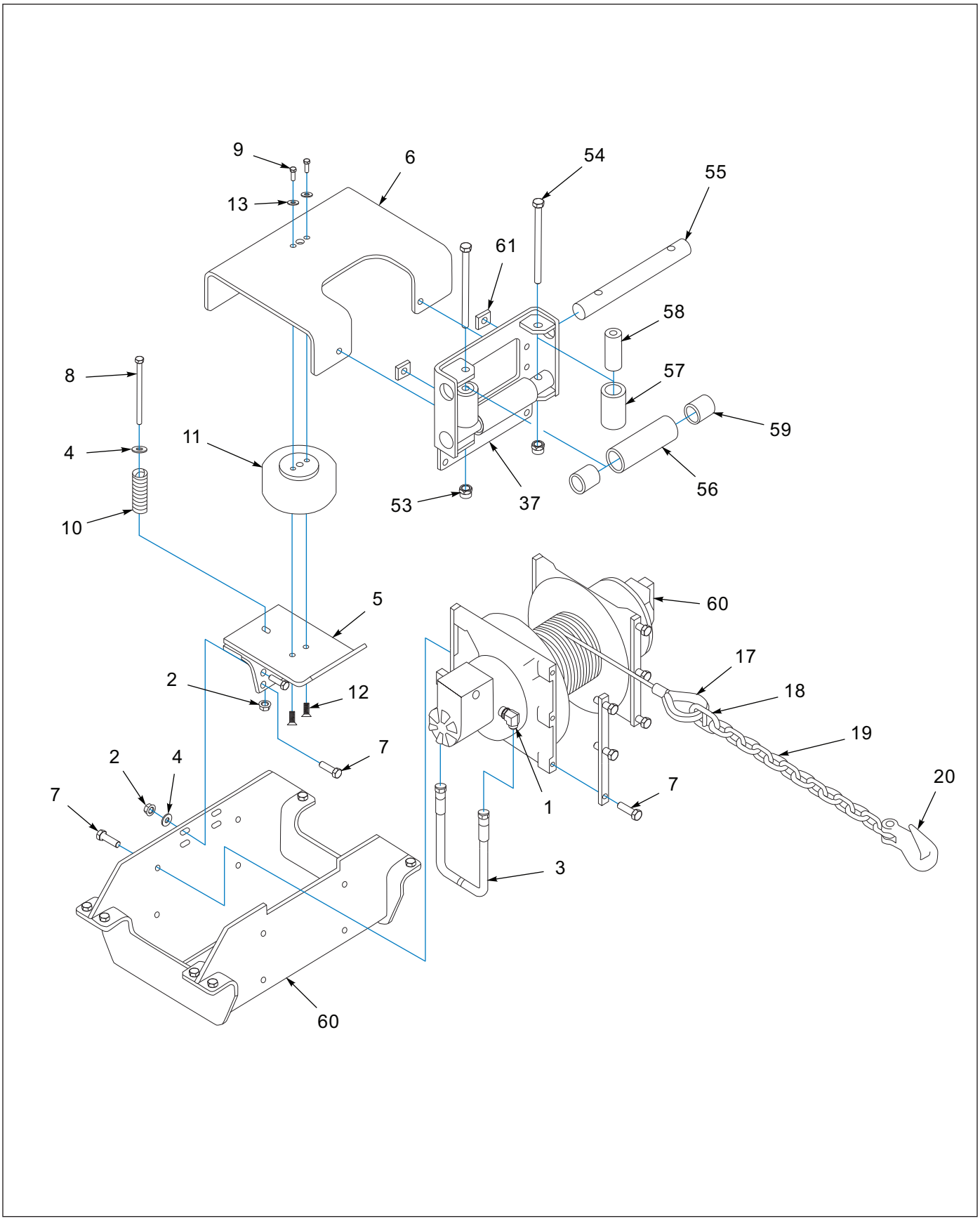


Figure 1-93: Winch Install, DP 12K / 15K / 20K (1 of 2)

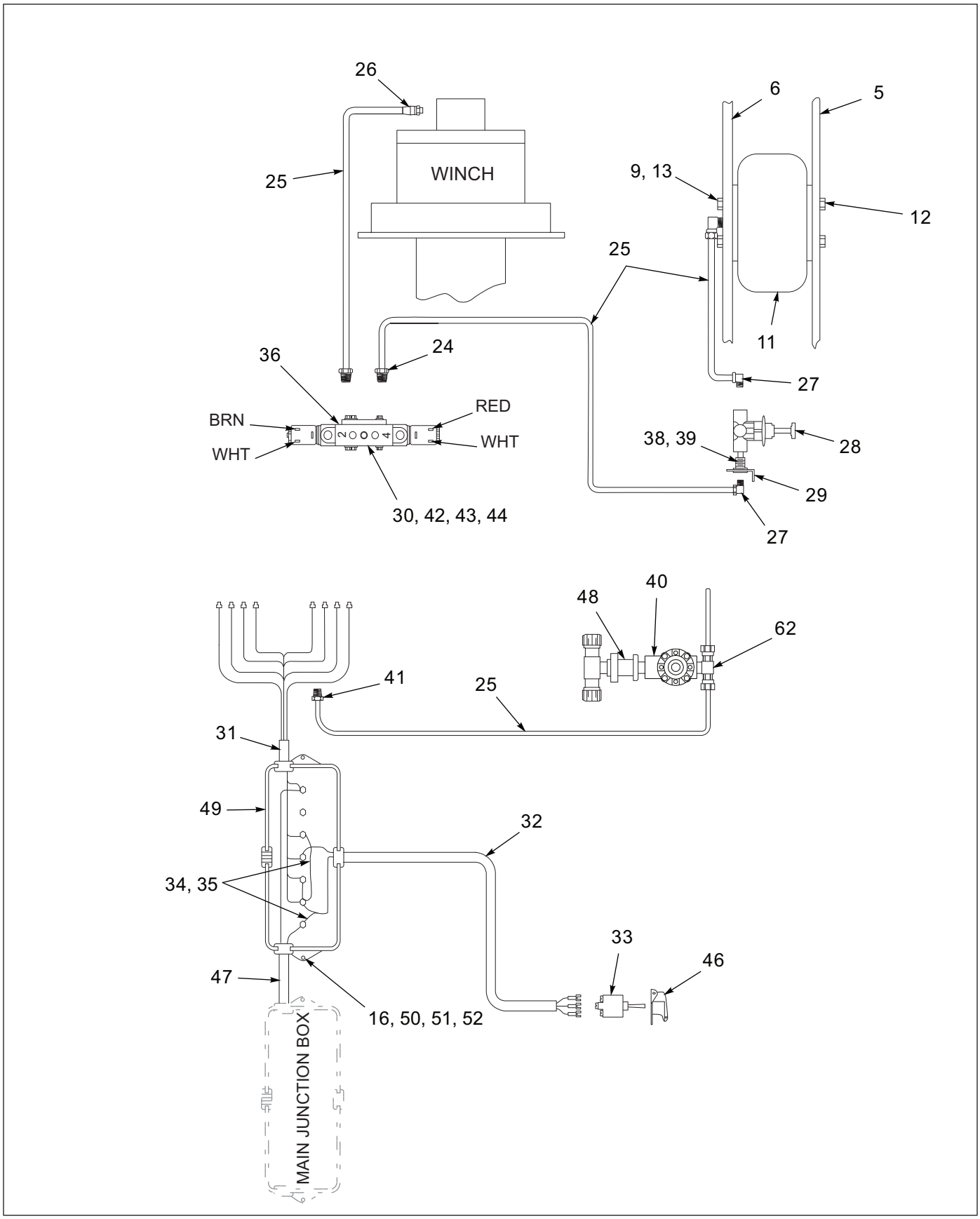


Figure 1-94: Winch Install, DP 12K / 15K / 20K (2 of 2)

Winch Install, DP 12K / 15K / 20K

ITEM	PART NO.	DESCRIPTION	QTY.
	111351	WINCH ROLLER GUIDE DP WINCH **(OPTION) (INCL. ITEMS 37, 53-59, 61)**	- -
1	2062-8-8S	ADAPTER, 90	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13	13
3	1-397-010301208	HOSE ASSEMBLY 1/2 X 208	2
4	1-861-010032-14	WASHER, FLAT 1/2	5
5	106379	WINCH TENSIONER WLDMT	1
6	106385	PLATE AIR TENSION	1
7	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	12
8	1-654-010055-17	SCREW, HEX HEAD CAP 1/2 -13 X 6 GR5	1
9	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR8	2
10	3-720-010010	SPRING COMP LEVEL WIND	1
11	3-720-010042	SPRING, AIR 6-1/2	1
12	1-654-010141-04	SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8	2
13	1-861-010032-10	WASHER, FLAT 3/8	2
16	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
17	3-155-010018-6	CABLE, 5/8 W/ LOOP**(20K)**	REF
17	3-155-010017-4	CABLE, 1/2 W/ LOOP 85 FT **(12K AND 15K)**	REF
18	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
19	3-174-010039036	CHAIN, 1/2 X 36 GR7	1
20	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
21	3-201-010001036	CONDUIT PLASTIC FLEX **(NOT SHOWN)**	1
22	1-297-010031-02	FITTING, BRASS PIPE	1
23	1-297-010032-03	FITTING, AIR 90	1
24	1-297-010007-04	FITTING, AIR	2
25	1-833-010001	TUBING, NYLON 1/4	AR
26	1-297-010007-05	FITTING, AIR 1/4	1
27	1-297-010008-07	FITTING, AIR 90	2
28	3-626-010004	REGULATOR, AIR PRESSURE	1
29	3-120-010445	BRACKET, PRESSURE REGULATOR	1
30	3-843-010022	VALVE, PNEUMATIC 4 WAY	1
31	3-368-010125	HARNESS ASSEMBLY	1
32	3-368-010187	HARNESS, REMOTE SWITCH	1
33	1-765-010065	TOGGLE SWITCH SPDT	1
34	2-272-010109	ZENOR DIODE **(W/ REMOTE)**	2
35	3-272-010018	HEAT SHRINK INSULATOR **(W/ REMOTE)**	2
36	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST **(W/O REMOTE)**	2
37	111387	BRACKET WELDMENT FAIRLEAD	1
38	1-297-010022-02	FITTING, AIR ANCHOR	1
39	1-297-010020-02	FITTING BRASS PIPE	1
40	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	REF
41	1-297-010008-05	FITTING, AIR 90	1
42	1-654-010024014	SCREW, MACH SLOT FIL HEAD #6-32 X 1-1/2 **(W/O REMOTE)**	2
43	1-861-010032-01	WASHER, FLAT #6 **(W/O REMOTE)**	2
44	1-512-010003-02	NUT, HEX LOCK #6-32 **(W/O REMOTE)**	2
46	3-348-010048	GUARD, SWITCH - 3 POSITION	1
47	3-368-010188	HARNESS, POWER JUMPER	1
48	1-297-010019-05	FITTING, BR	REF
49	750-029	JUNCTION BOX 7 STUD	1
50	1-512-010007-05	NUT, HEX 1/4-20 GRB	2

Winch Install, DP 12K / 15K / 20K

ITEM	PART NO.	DESCRIPTION	QTY.
51	1-861-010032-06	WASHER, FLAT 1/4N	2
52	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2
53	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
54	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8	2
55	111383	ROD FAIRLEAD ROLLER	2
56	111384	TUBE HORIZONTAL ROLLER FAIRLEAD	2
57	111385	TUBE, VERTICAL ROLLER FAIRLEAD	2
58	111386	BUSHING, FAIRLEAD VERT ROLLER	2
59	3-150-010005	1-1/2 ID BRONZE SLEEVE BEARING	2
60	111091	WINCH DP 12K MANUAL	1
60	111092	WINCH DP 12K AIR	1
60	111093	WINCH DP 15K MANUAL	1
60	111094	WINCH DP 15K AIR	1
60	111095	WINCH DP 20K MANUAL	1
60	111096	WINCH DP 20K AIR	1
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
62	1-297-010015-03	FITTING, AIR BR TEE	1

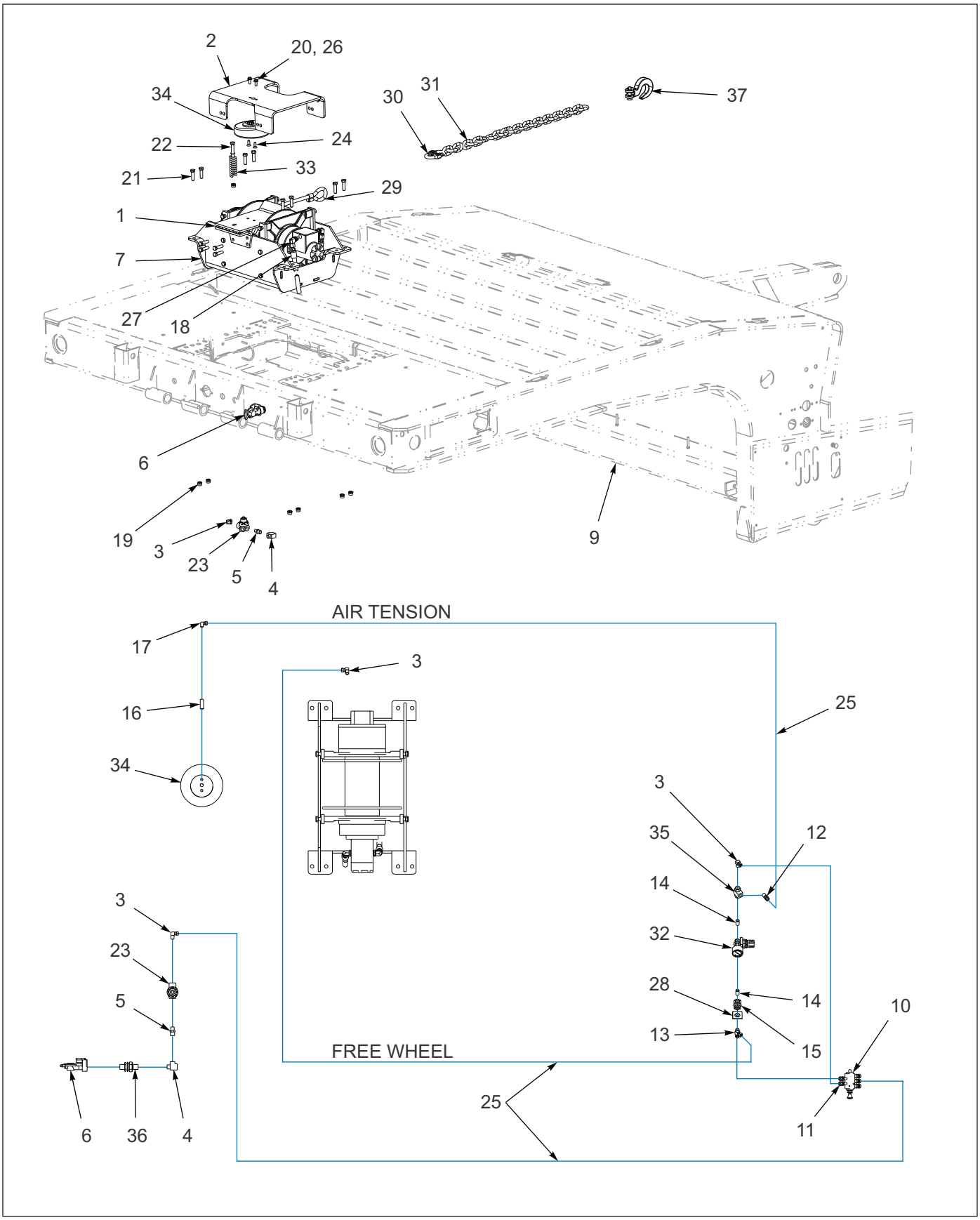
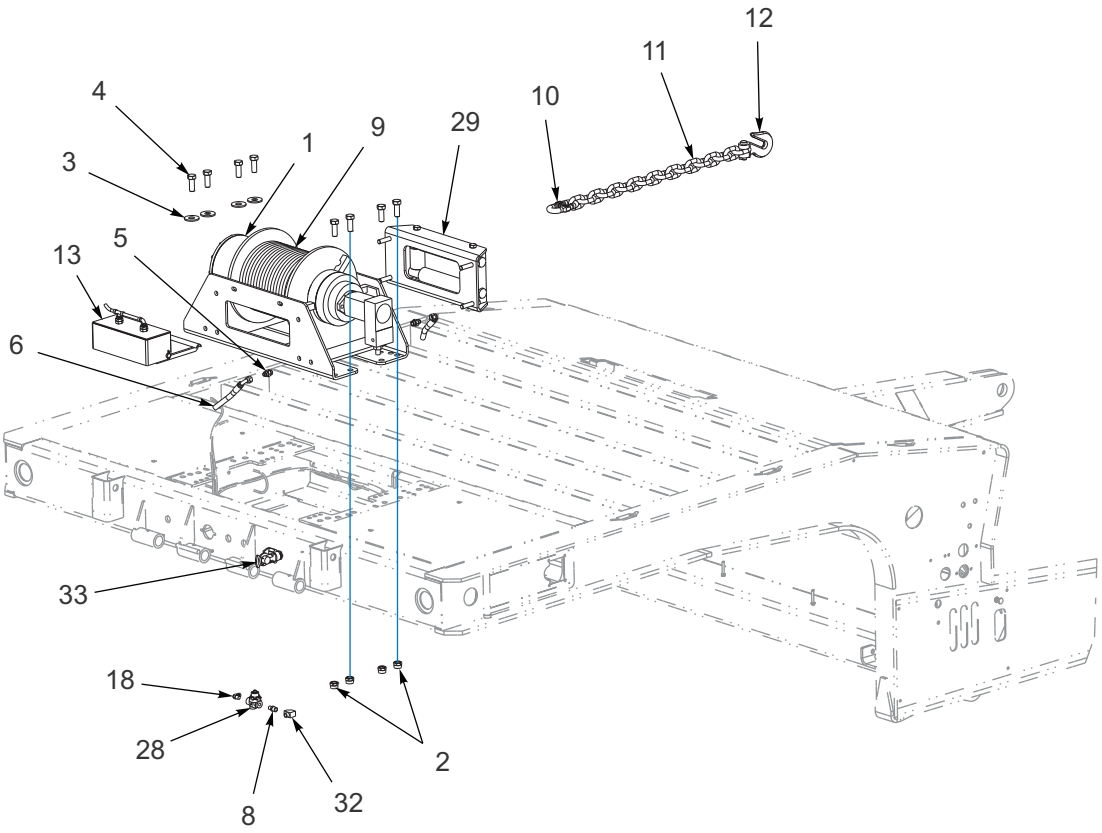


Figure 1-95: Winch Install, DP 20K, Air Tension

Winch Install, DP 20K, Air Tension

ITEM	PART NO.	DESCRIPTION	QTY.
	169245	WINCH INSTALLATION 20K AIR T/R DP	- -
1	106379	WINCH TENSIONER WLDMT	1
2	106385	PLATE AIR TENSION	1
3	1-297-010008-07	FITTING, AIR 90	2
4	1-297-010018-03	FITTING, TEE	1
5	1-297-010019-05	FITTING, BR	REF
6	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF
7	111096	WINCH DP 20K AIR	1
8	116837	VALVE MOUNT WELDMENT CONTROLS **(NOT SHOWN)**	REF
9	- - - - -	GOOSENECK WELDMENT	REF
10	139552	VALVE, AIR 5 WAY/S POSITION	1
11	1-297-010007-04	FITTING, AIR	2
12	1-297-010007-05	FITTING, AIR 1/4	1
13	1-297-010011-02	FITTING, AIR M/RUN TEE	1
14	1-297-010020-02	FITTING BRASS PIPE	1
15	1-297-010022-02	FITTING, AIR ANCHOR	1
16	1-297-010031-02	FITTING, BRASS PIPE	1
17	1-297-010032-03	FITTING, AIR 90	1
18	1-397-010301208	HOSE ASSEMBLY 1/2 X 208	2
19	1-512-010005-09	NUT, HEX LOCK 1/2-13	13
20	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR8	2
21	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	12
22	1-654-010055-17	SCREW, HEX HEAD CAP 1/2 -13 X 6 GR5	1
23	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	REF
24	1-654-010141-04	SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8	2
25	1-833-010001	TUBING, NYLON 1/4	AR
26	1-861-010032-10	WASHER, FLAT 3/8	2
27	2062-8-8S	ADAPTER, 90	2
28	3-120-010445	BRACKET, PRESSURE REGULATOR	1
29	3-155-010018-6	CABLE, 5/8 X 85’	REF
30	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
31	3-174-010039036	CHAIN, 1/2 X 36 GR7	1
32	3-626-010004	REGULATOR, AIR PRESSURE	1
33	3-720-010010	SPRING COMP LEVEL WIND	1
34	3-720-010042	SPRING, AIR 6-1/2	1
35	3-843-010039-02	VALVE, AIR SHUTTLE	1
36	55B61	FRAME UNION	REF
37	7HCGHT500	1/2 CLEVIS GRAB HOOK	1



30K WINCH W/ AIR
TENSION, AIR RELEASE,
AND GUIDE

Figure 1-96: Winch Install, DP 30K (1 of 3)

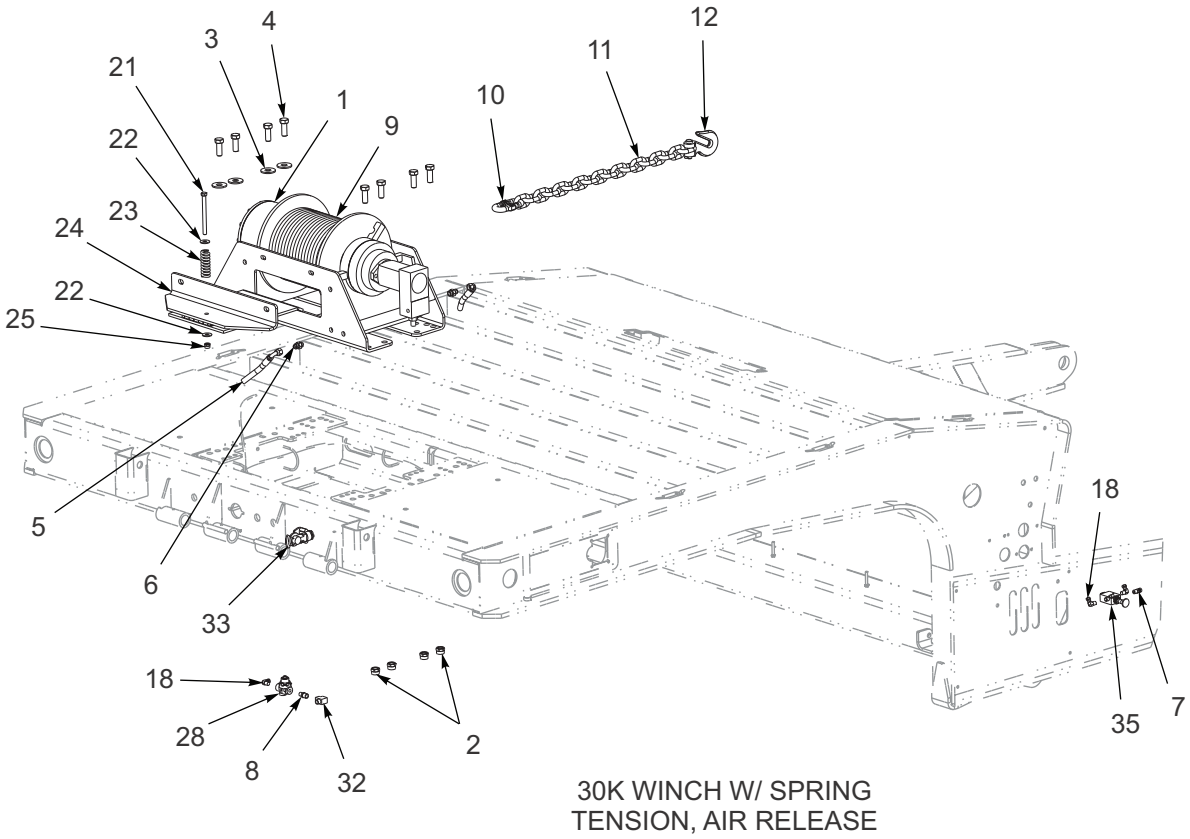
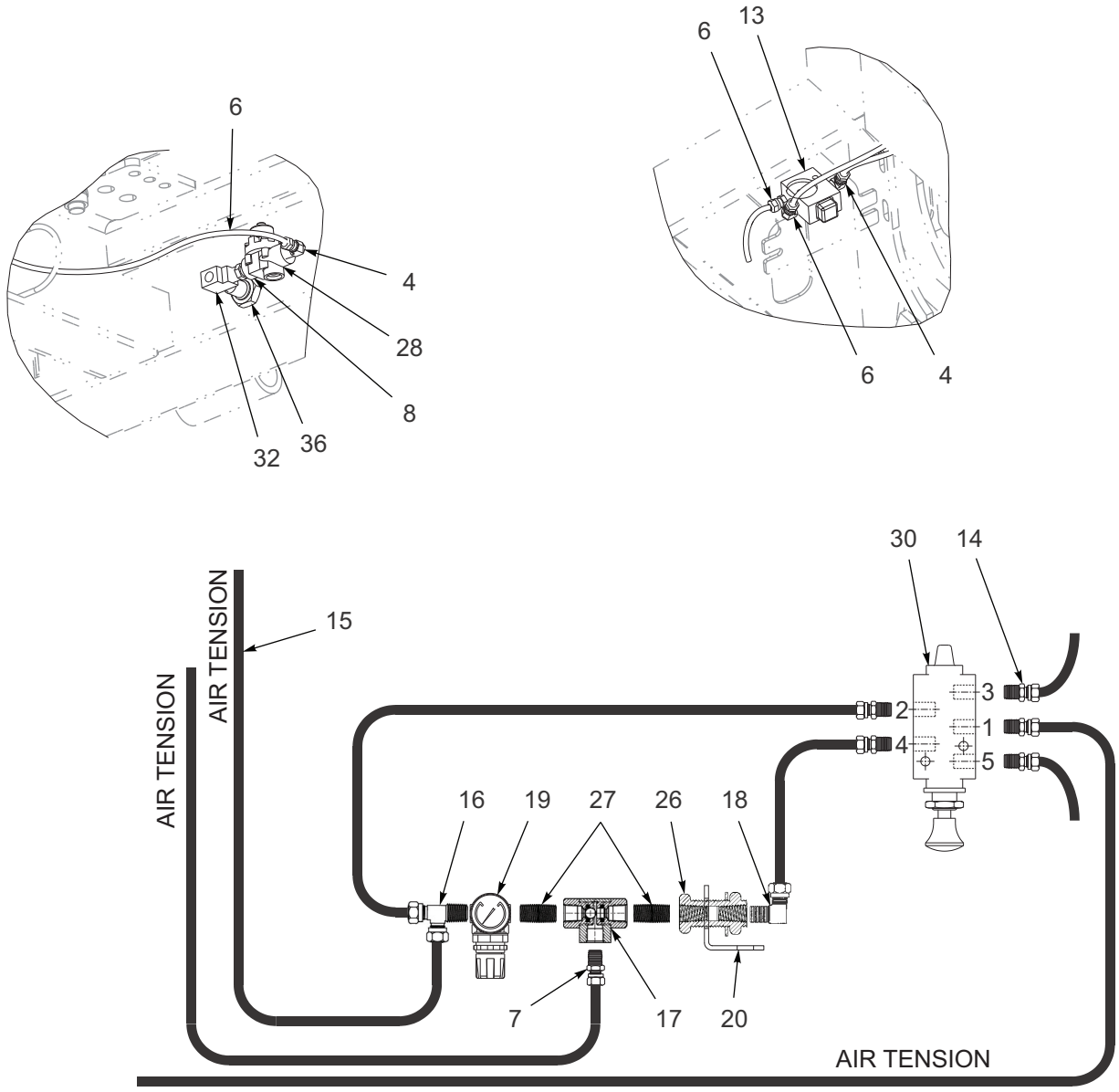


Figure 1-97: Winch Install, DP 30K (2 of 3)



PORT 1 AIR SUPPLY

PORT 2 TO WINCH FREE WHEEL AND MALE RUN TEE TO REGULATOR

PORT 3 EXHAUST

PORT 4 TO ELBOW TO SHUTTLE VALVE

PORT 5 EXHAUST

Figure 1-98: Winch Install, DP 30K (3 of 3)

Winch Install, DP 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	146998	WINCH, 30K W/ AT, AR, & GUIDED **(INCLUDES ITEMS 1,2,4,6-8,10-20,26-31)**	- -
	147193	WINCH, 30K SPG TENS NO FREE **(INCLUDES ITEMS 1-6,10-13,21-25)**	- -
	144629	WINCH, 30K SPG TENS **(INCLUDES ITEMS 1-4, 6-8, 12-13, 15, 18, 21-25, 28)**	- -
1	3-873-010173	WINCH, 30K	1
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	10
3	1-861-010034-17	WASHER, SPLIT LOCK 3/4	10
4	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5	10
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
6	1-397-010302220	HOSE ASSEMBLY	2
7	1-297-010007-05	FITTING, AIR	1
8	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
9	132833	CABLE ASSEMBLY 5/8 X 85 W/ LOOP	REF
9	132834	CABLE ASSEMBLY 5/8 X 150 W/ LOOP	REF
10	3-174-010059	CHAIN LINK 5/8	1
11	3-174-010060036	CHAIN GR 80	1
12	1-382-010035-06	HOOK, CLEVIS	1
13	3-873-010172	WINCH, CABLE AIR TENSION 30K	1
14	1-297-010007-04	FITTING AIR	5
15	1-833-010001	NYLON TUBING 1/4 OD	AR
16	1-297-010011-02	FITTING, AIR TEE	1
17	3-843-010039-02	VALVE AIR SHUTTLE 1/4	1
18	1-297-010008-07	FITTING, AIR 90	3
19	3-626-010004	REGULATOR, AIR PRESSURE	1
20	3-120-010445	BRACKET, PRESSURE REGULATOR	1
21	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	1
22	1-861-010032-15	WASHER, FLAT 1/2	2
23	3-720-010010	SPRING COMP LEVEL WIND	1
24	111641	WINCH TENSIONER WLDMT 30K	1
25	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
26	1-297-010022-02	FITTING, AIR ANCHOR	1
27	1-297-010020-02	FITTING, BRASS PIPE	2
28	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1
29	122333	WINCH ROLLER GUIDE 30K PLNTY DP	1
30	139552	VALVE, AIR 5 WAY/2 POS	1
31	125892	CLAMP, CABLE 3/8 **(NOT SHOWN)**	1
32	1-297-010018-03	FITTING, TEE	REF
33	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF
34	116837	VALVE, MOUNT WELDMENT **(NOT SHOWN)**	REF
35	134657	VALVE, AIR 3 WAY/2 POS	1
36	55B61	FRAME UNION	REF

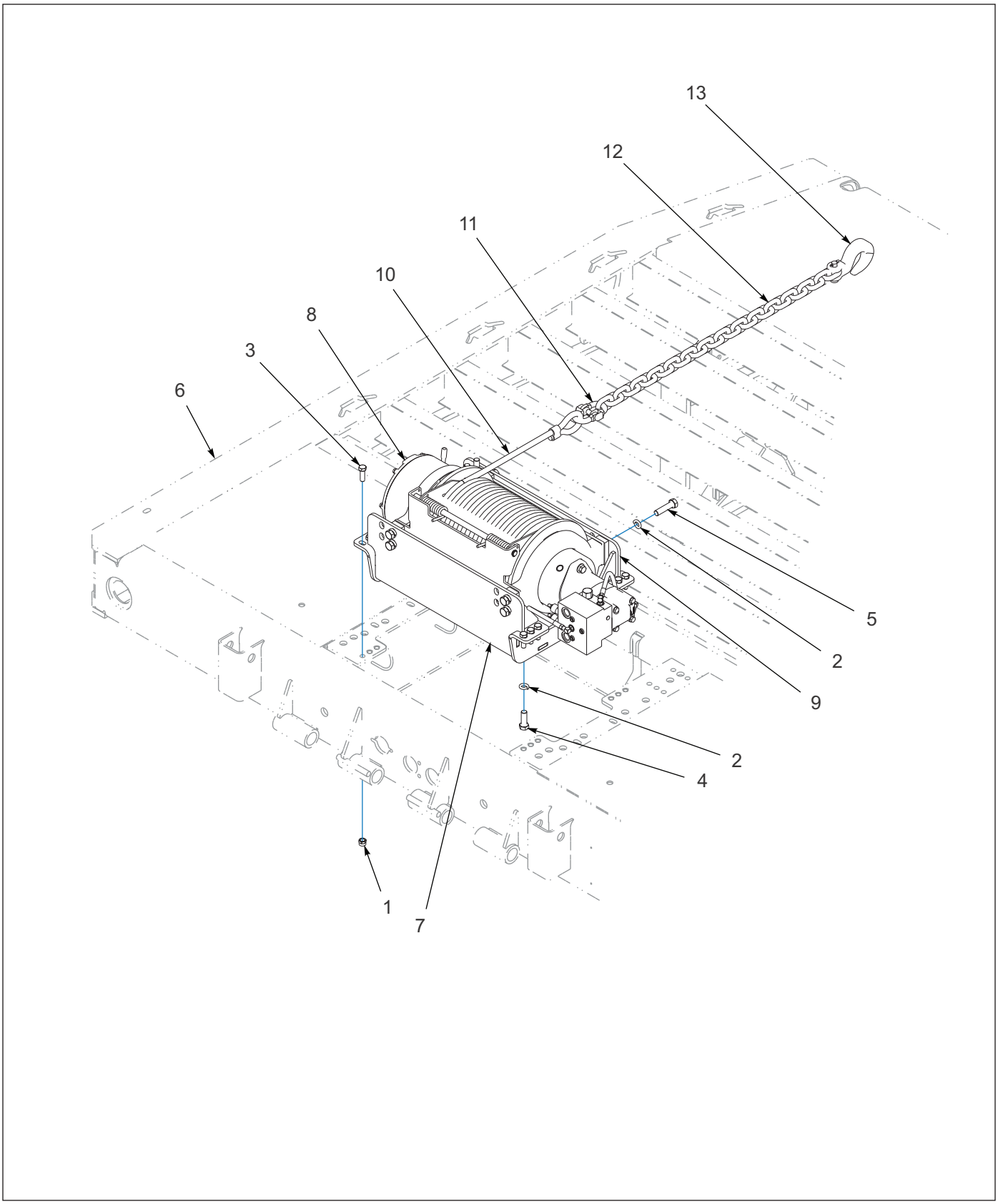


Figure 1-99: 20K Winch Install, Warn 20K, 1 Speed, Air Kick Out

Winch Install, Warn 20K, 1 Speed, Air Kick Out

ITEM	PART NO.	DESCRIPTION	QTY.		
	151818	WINCH INSTALLATION, 20K STD.	*		
	169452	WINCH INSTALLATION, 20K ARCTIC		*	
	169453	WINCH INSTALLATION, 20K HD			*
1	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12	12	12
2	1-861-010034-15	WASHER, SPLIT LOCK 5/8	16	16	16
3	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12	12	12
4	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	8	8	8
5	113299	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR8	8	8	8
6	- - - - -	GOOSENECK WELDMENT	REF	REF	REF
7	151817	MOUNT WELDMENT, WINCH WARN	1	1	1
8	151819	WINCH, 20K WARN AR KO **(SEE PAGE 1-207)**	1	1	1
9	154234	SPACER, WINCH	4	4	4
10	3-155-010018-6	CABLE, 5/8 X 85’	REF	REF	REF
11	3-174-010038	CHAIN LINK, CONNECTING 1/2	1	1	1
12	3-174-010039036	CHAIN, 1/2 X 36	1	1	1
13	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1	1	1

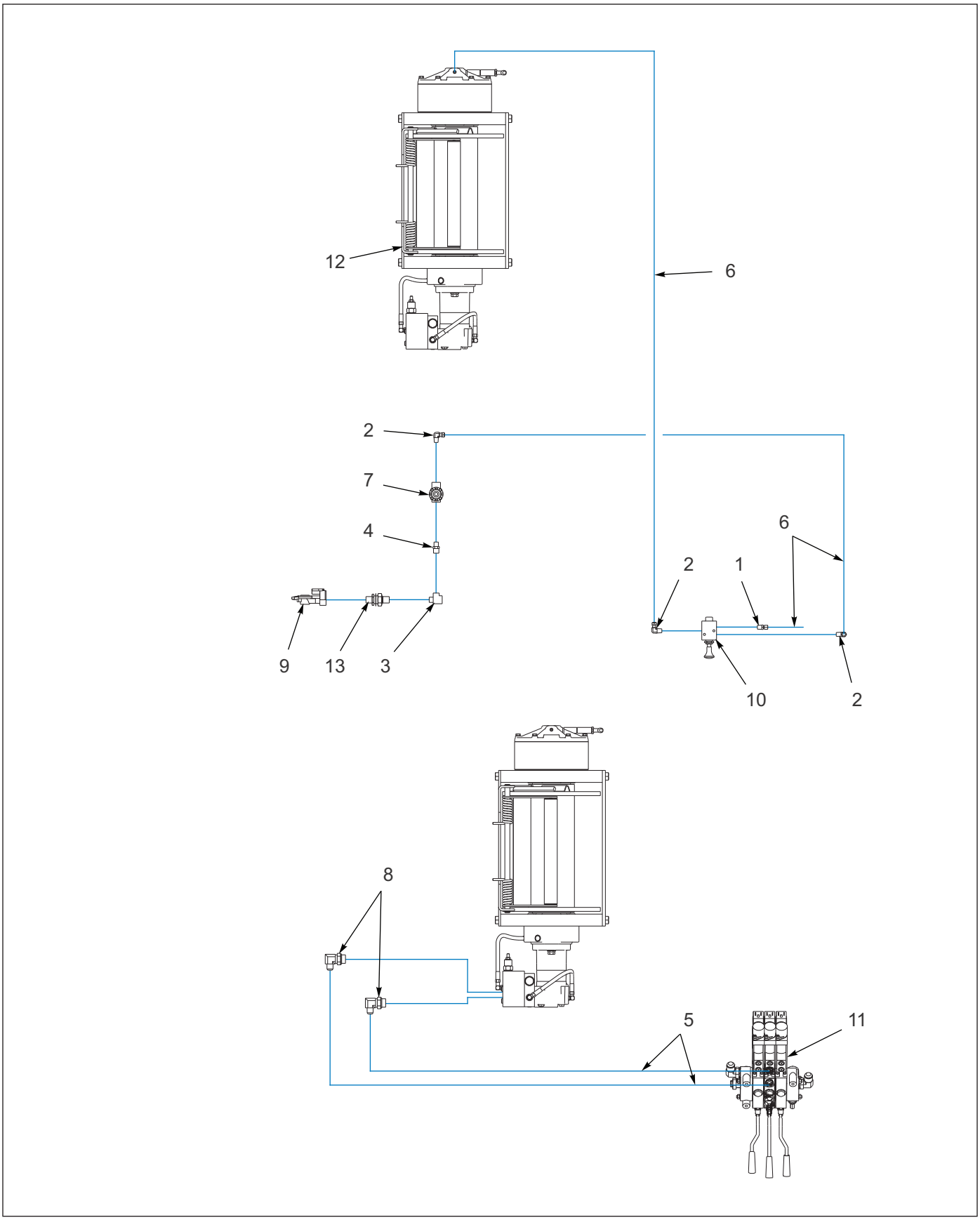


Figure 1-100: Winch Install, Warn 20K, 1 Speed, Air Kick Out, Hydraulic & Air

Winch Install, Warn 20K, 1 Speed, Air Kick Out, Hydraulic & Air

ITEM	PART NO.	DESCRIPTION	QTY.		
	151818	WINCH INSTALLATION, 20K STD.	*		
	169452	WINCH INSTALLATION, 20K ARCTIC		*	
	169453	WINCH INSTALLATION, 20K HD			*
1	1-297-010007-05	FITTING, AIR	1	- -	1
2	1-297-010008-07	FITTING, AIR 90	3	- -	3
3	1-297-010018-03	FITTING, BRS PIPE ST TEE	REF	REF	REF
4	1-297-010019-05	FITTING, BRS PIPE HEX	1	1	1
5	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	2	- -	2
5	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	REF	- -	2
5	139928	HOSE, 1/2 X 172 ARCTIC	- -	2	- -
6	1-833-010001	TUBING, NYLON 1/4 OD	AR	- -	AR
6	126629	TUBING, NYLON 1/4 OD ARCTIC	- -	AR	- -
7	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1	1	1
8	2062-12-8S	ADAPTER, 90	2	2	2
9	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF	REF	REF
10	134657	VALVE, AIR 3 WAY/2 POS	1	1	1
11	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	REF	REF	REF
12	151819	WINCH, 20K WARN AR KO **(SEE PAGE 1-207)**	REF	REF	REF
13	55B61	FRAME UNION	REF	REF	REF

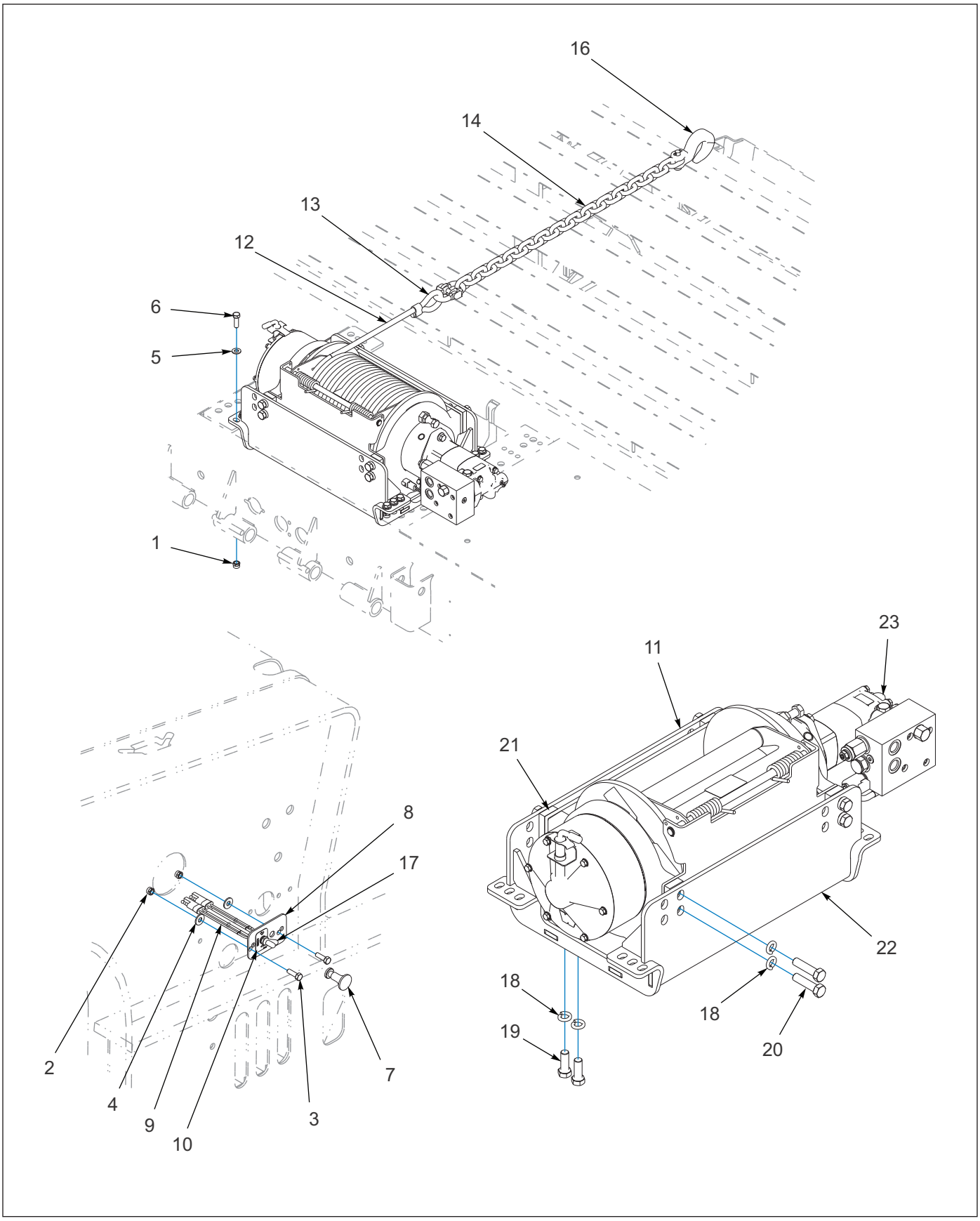


Figure 1-101: Winch Install, Warn 20K, 2 Speed

Winch Install, Warn 20K, 2 Speed

ITEM	PART NO.	DESCRIPTION	QTY.	
	167522	WINCH INSTALLATION, 20K 2 SPEED	*	
	174175	WINCH INSTALLATION, 20K 2 SPEED		*
1	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12	12
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2
3	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2	2
4	1-861-010032-09	WASHER, FLAT 5/16W	2	2
5	1-861-010032-14	WASHER, FLAT 1/2	12	12
6	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12	12
7	134657	VALVE, AIR 3 WAY/2 POS	REF	REF
8	137987	MOUNT, ELECTRICAL SWITCH	1	1
9	150117	TOGGLE SWITCH SEALED SPST	REF	REF
10	174043	DECAL, WINCH HI/LO	1	1
11	174553	20K WARN WINCH ASSEMBLY **(ITEMS 18 - 23)**	1	1
12	3-155-010018-6	CABLE, 5/8 X 85’	REF	REF
13	3-174-010038	CHAIN LINK, CONNECTING 1/2	1	1
14	3-174-010039036	CHAIN, 1/2 X 36	1	1
15	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION **(NOT SHOWN)**	1	1
16	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1	1
17	81264	RUBBER BOOT FOR ELECT SWITCH	REF	REF
18	1-861-010034-15	WASHER, SPLIT LOCK 5/8	16	16
19	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	8	8
20	113299	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR8	8	8
21	154234	SPACER, WINCH	4	4
22	165429	MOUNT WELDMENT, WINCH WARN	1	1
23	- - - - -	WARN WINCH INSTALLATION	1	1

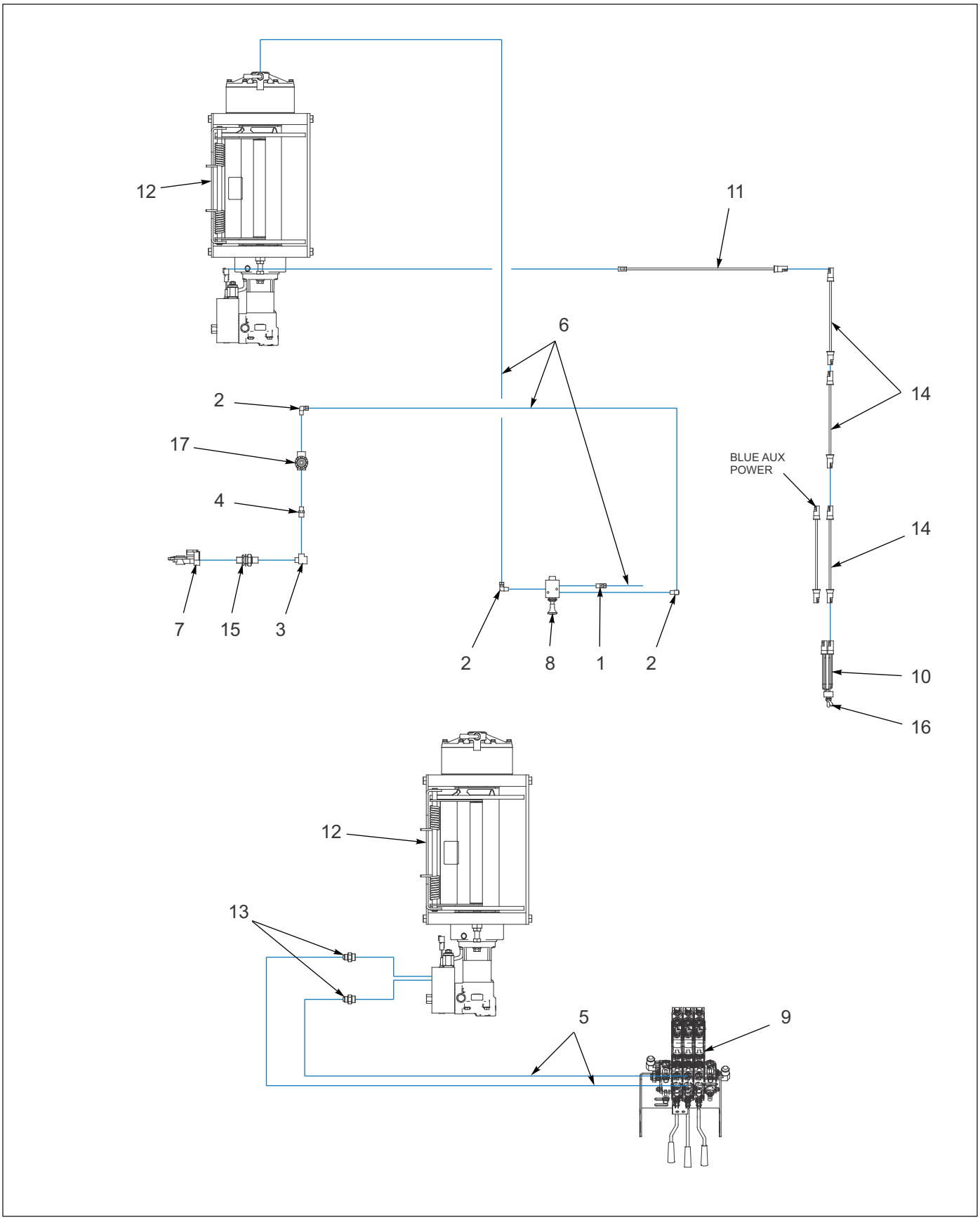


Figure 1-102: Winch Install, Warn 20K, 2 Speed, Hydraulic & Air

Winch Install, Warn 20K, 2 Speed, Hydraulic & Air

ITEM	PART NO.	DESCRIPTION	QTY.	
	167522	WINCH INSTALLATION, 20K 2 SPEED	*	
	174175	WINCH INSTALLATION, 20K 2 SPEED		*
1	1-297-010007-05	FITTING, AIR	1	1
2	1-297-010008-07	FITTING, AIR 90	3	3
3	1-297-010018-03	FITTING, BRASS PIPE TEE	REF	REF
4	1-297-010019-05	FITTING BRASS PIPE HEX	1	1
5	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	- -	2
5	174188	HOSE ASSEMBLY 1/2 X 182	2	- -
6	1-833-010001	TUBING, NYLON 1/4 OD	AR	AR
7	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF	REF
8	134657	VALVE, AIR 3 WAY/2 POS	1	1
9	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	REF	REF
10	150117	TOGGLE SWITCH SEALED SPST	REF	REF
11	164053	HARNESS, BRANCH WORK LIGHT 102’”	1	1
12	174553	20K WARN WINCH ASSEMBLY	REF	REF
13	202702-10-8S	ADAPTER	2	2
14	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4	4
15	55B61	FRAME UNION	REF	REF
16	81264	RUBBER BOOT FOR ELECT SWITCH	1	1
17	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1	1

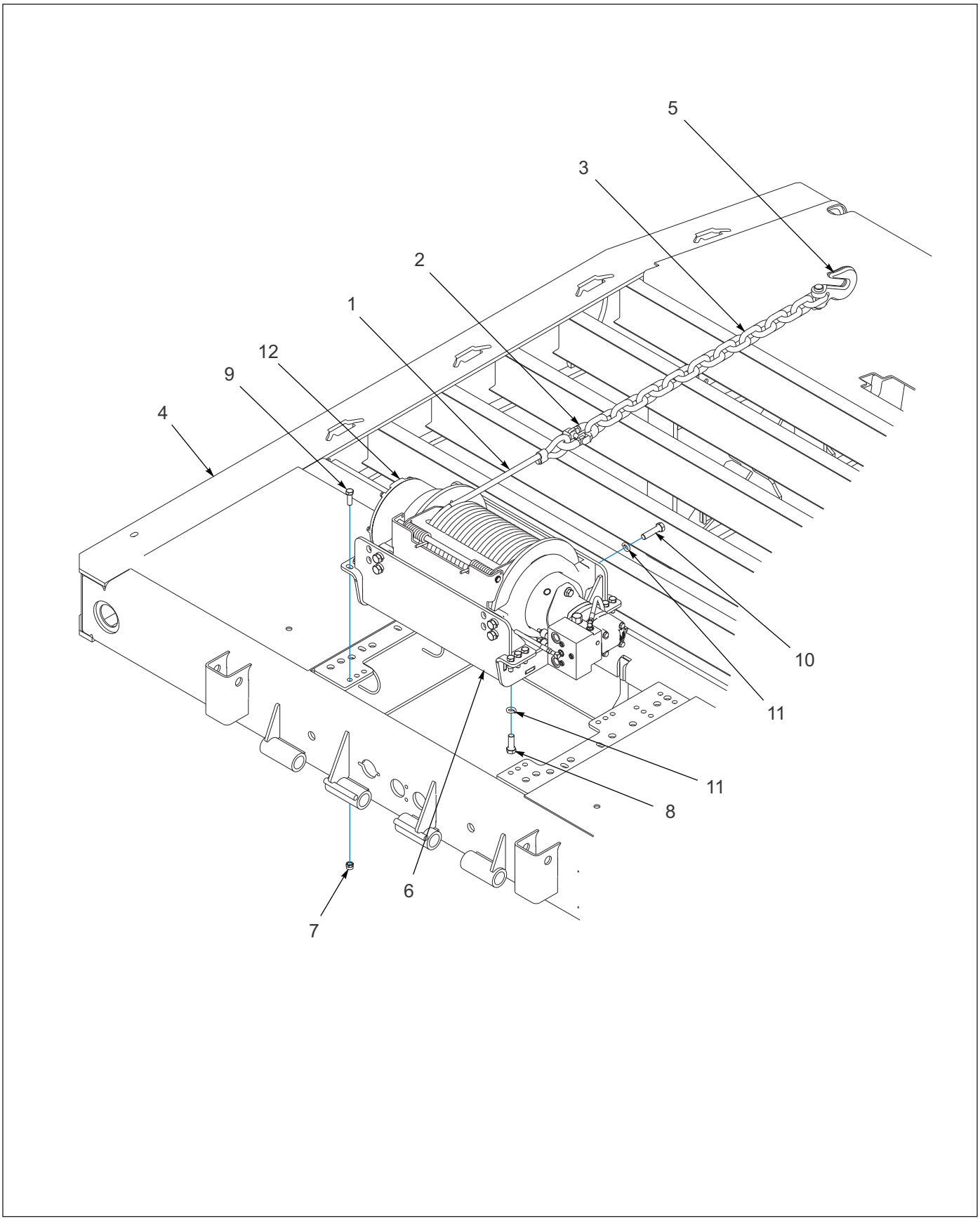


Figure 1-103: Winch Install, Warn 30K, 1 Speed, Air Kick Out

Winch Install, Warn 30K, 1 Speed, Air Kick Out

ITEM	PART NO.	DESCRIPTION	QTY.		
	155411	WINCH INSTALLATION, 30K WARN STD	*		
	169929	WINCH INSTALLATION, 30K WARN HD		*	
	169930	WINCH INSTALLATION, 30K WARN ARCTIC			*
1	132833	CABLE ASSEMBLY, 5/8 X 85 FLEX-X9	REF	REF	REF
2	3-174-010059	CHAIN LINK CONNECTING 5/8	1	1	1
3	3-174-010039036	CHAIN, 1/2 X 36	1	1	1
4	- - - - -	GOOSENECK WELDMENT	REF	REF	REF
5	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GRD80	1	1	1
6	151817	MOUNT WELDMENT, WINCH WARN	1	1	1
7	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12	12	12
8	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	8	8	8
9	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12	12	12
10	113299	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR8	8	8	8
11	1-861-010034-15	WASHER, SPLIT LOCK 5/8	16	16	16
12	155410	WINCH, 30K WARN AIR KO	1	1	1

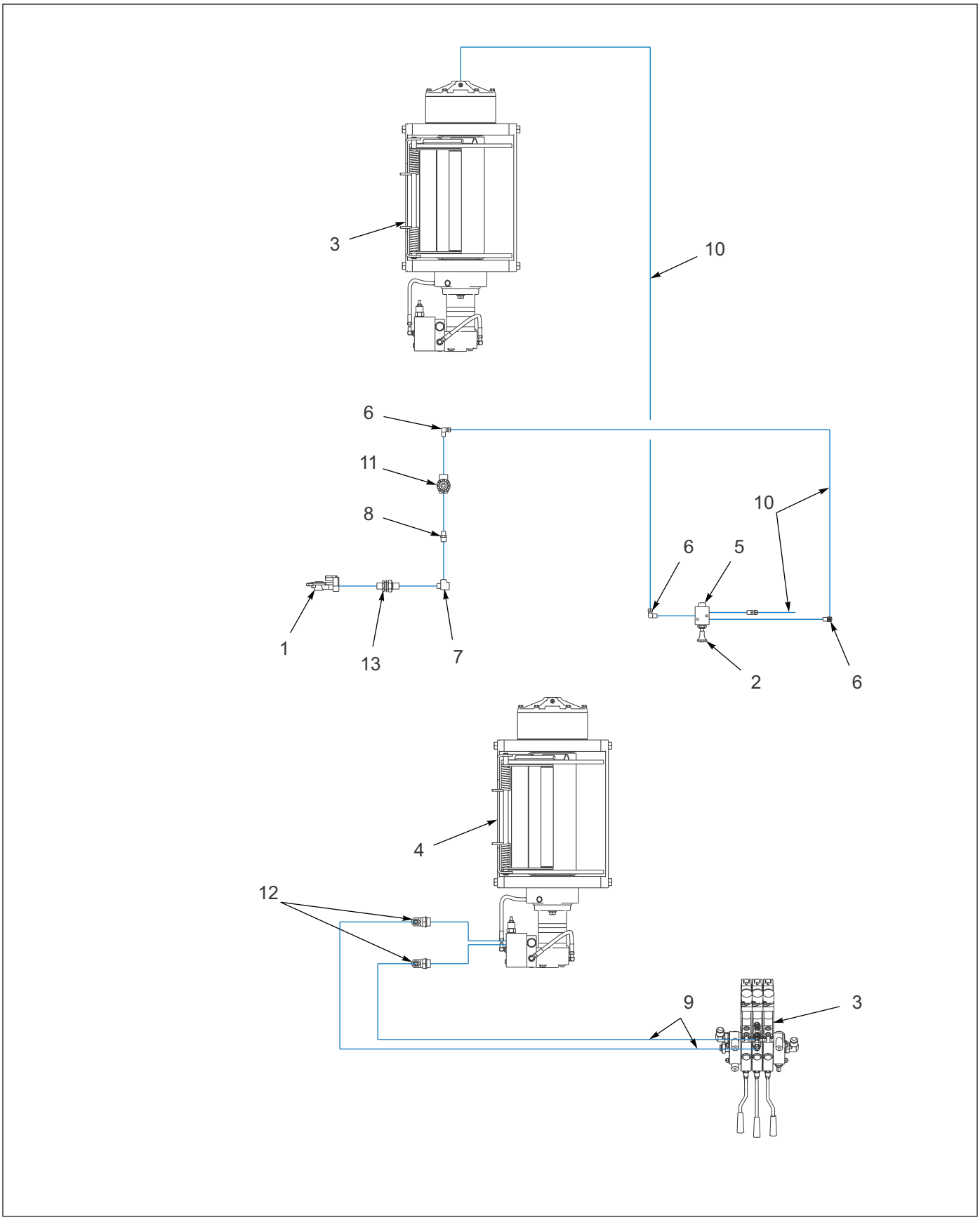


Figure 1-104: Winch Install, Warn 30K, 1 Speed, Air Kick Out, Hydraulic & Air

Winch Install, Warn 30K, 1 Speed, Air Kick Out, Hydraulic & Air

ITEM	PART NO.	DESCRIPTION	QTY.		
	155411	WINCH INSTALLATION, 30K WARN STD	*		
	169929	WINCH INSTALLATION, 30K WARN HD		*	
	169930	WINCH INSTALLATION, 30K WARN ARCTIC			*
1	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF	REF	REF
2	134657	VALVE, AIR 3 WAY/2 POS	1	1	1
3	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	REF	REF	REF
4	155410	WINCH, 30K WARN AIR KO	REF	REF	REF
5	1-297-010007-05	FITTING, AIR	1	1	- -
5	126862	FITTING, COMPR STRAIGHT	- -	- -	1
6	1-297-010008-07	FITTING, AIR 90	3	3	- -
6	126677	FITTING, AIR 90			3
7	1-297-010018-03	FITTING, BRS PIPE ST TEE	REF	REF	REF
8	1-297-010019-05	FITTING, BRS PIPE HEX	1	1	1
9	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	2	- -	2
9	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	- -	2	- -
9	139928	HOSE, 1/2 X 172 ARCTIC	- -	- -	2
10	1-833-010001	TUBING, NYLON 1/4 OD	AR	AR	- -
10	126629	TUBING, NYLON 1/4 OD ARCTIC	- -	- -	AR
11	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1	1	1
12	2062-12-8S	ADAPTER, 90	2	2	2
13	55B61	FRAME UNION	REF	REF	REF

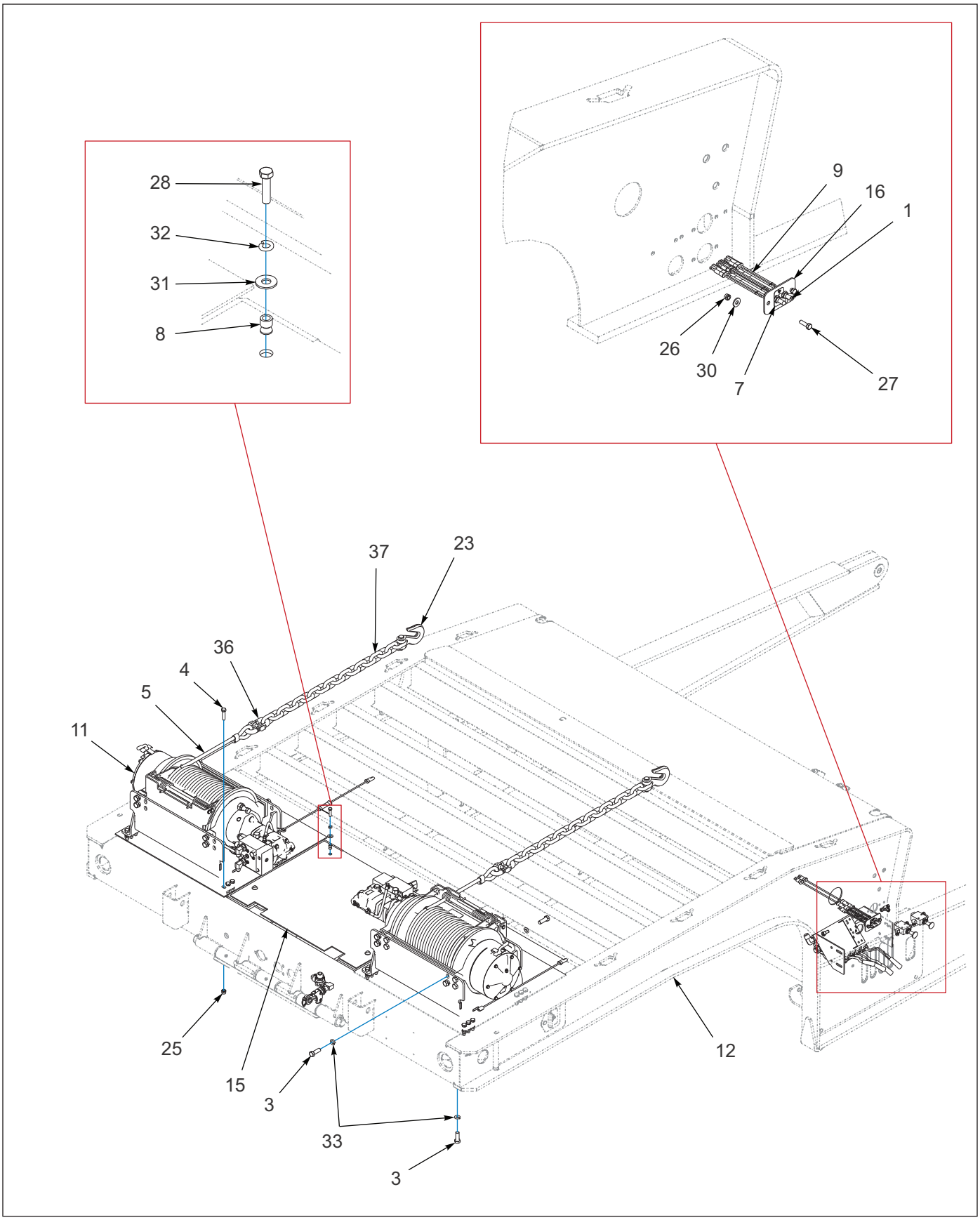


Figure 1-105: Winch Install, Warn 20K / 30K, Dual, 1 Speed, Air Kick Out (1 of 3)

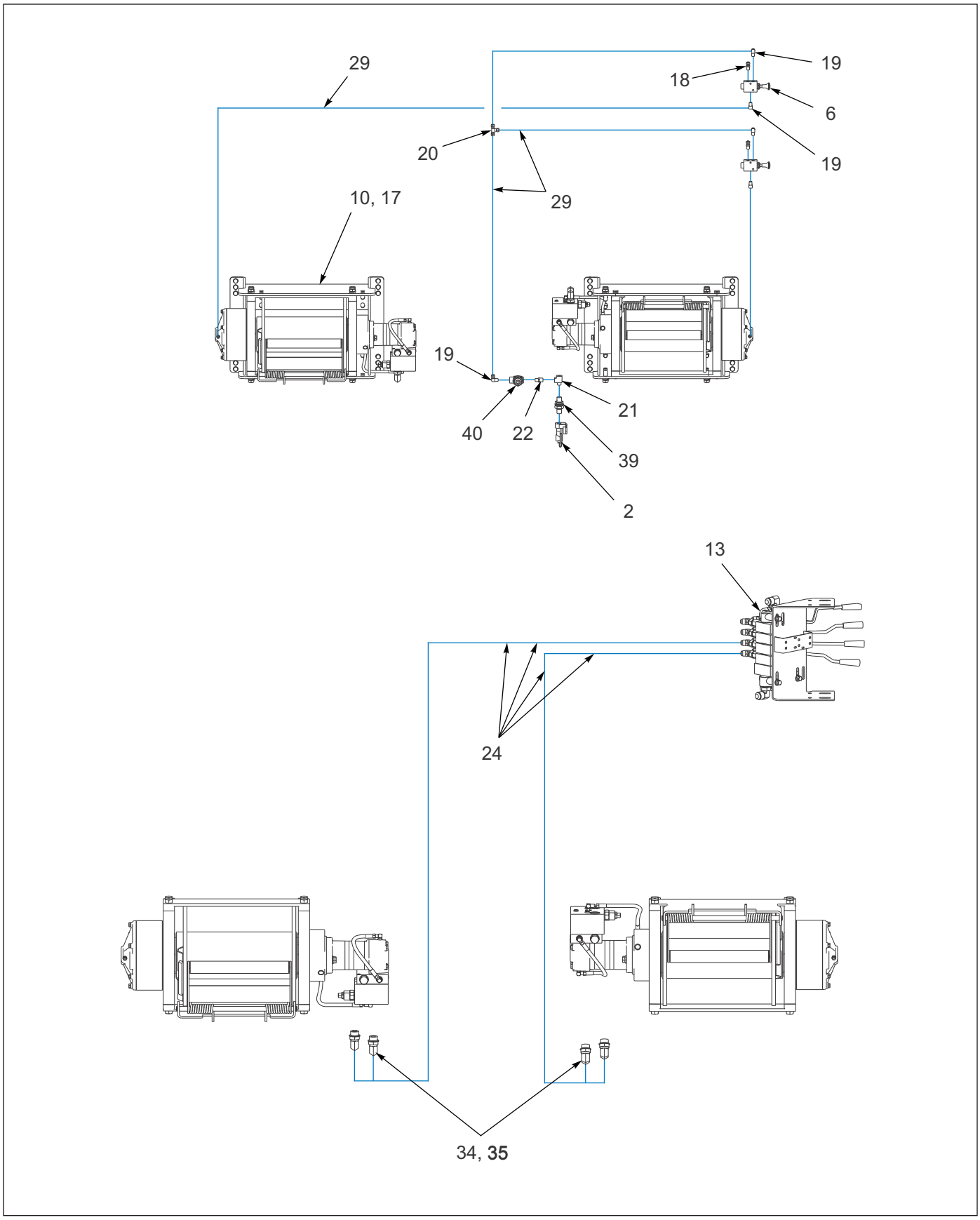


Figure 1-106: Winch Install, Warn 20K / 30K, Dual, 1 Speed, Air Kick Out (2 of 3)

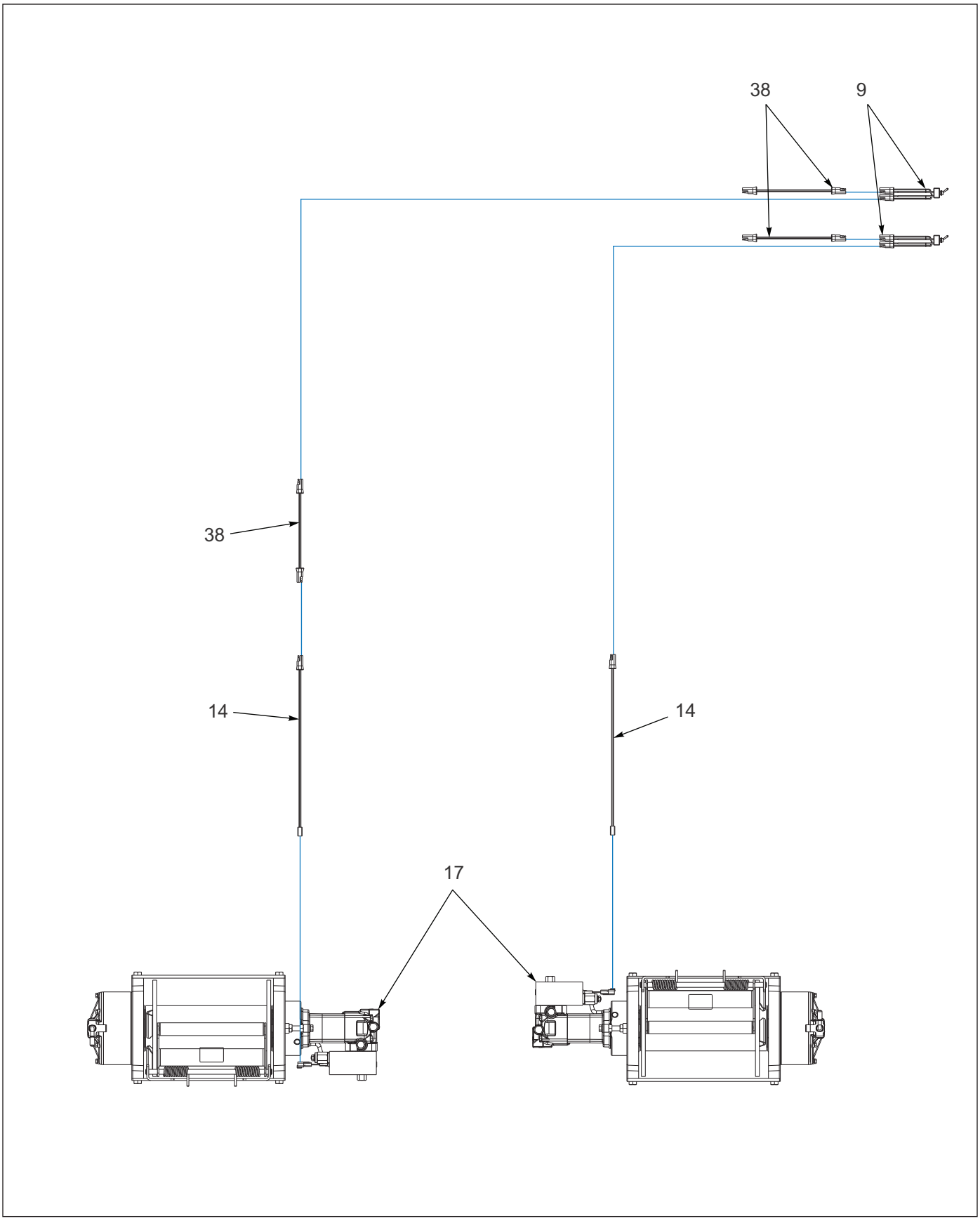


Figure 1-107: Winch Install, Warn 20K / 30K, Dual, 1 Speed, Air Kick Out (3 of 3)

Winch Install, Warn 20K / 30K, Dual, 1 Speed, Air Kick Out

ITEM	PART NO.	DESCRIPTION	QTY.	
	161784	WINCH INSTALLATION, DUAL 30K WARN		
	172628	WINCH INSTALLATION, DUAL 30K WARN 2 SPEED		
1	81264	RUBBER BOOT FOR ELECT SWITCH	- -	2
2	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF	REF
3	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	32	32
4	132773	SCREW, HEX HEAD CAP 1/2-13 X 2 GR8	24	24
5	132833	CABLE ASSEMBLY, 5/8 X 85 FLEX-X9	REF	REF
6	134657	VALVE, AIR 3 WAY/2 POS	2	2
7	137987	MOUNT, ELECTRICAL SWITCH	- -	1
8	139254	NUTSERT, 3/8-16	4	4
9	150117	TOGGLE SWITCH SEALED SPST	- -	2
10	155410	WINCH, 30K WARN AIR KO	2	- -
11	161785	MOUNT WELDMENT, WINCH WARN 20K/30K	2	2
12	- - - - -	FRAME ASSEMBLY, GOOSENECK	REF	REF
13	- - - - -	VALVE ASSEMBLY, 4 SPOOL	REF	REF
14	164053	HARNESS, BRANCH WORK LIGHT 102’’’	- -	2
15	167978	COVER, UPPER DECK TWO WINCHES	- -	1
16	174043	DECAL, WINCH HI/LO	- -	2
17	174550	WINCH, 20K WARN AR KO	- -	2
18	1-297-010007-05	FITTING, AIR	2	2
19	1-297-010008-07	FITTING, AIR 90	5	5
20	1-297-010010-01	FITTING, AIR UNION TEE	1	1
21	1-297-010018-03	FITTING, BRASS PIPE TEE	REF	REF
22	1-297-010019-05	FITTING BRASS PIPE HEX	1	1
23	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GRD80	2	2
24	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	4	4
25	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	24	24
26	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	- -	2
27	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	- -	2
28	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4	4
29	1-833-010001	TUBING, NYLON 1/4 OD	AR	AR
30	1-861-010032-09	WASHER, FLAT 5/16W	- -	2
31	1-861-010032-11	WASHER, FLAT 3/8W	4	4
32	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4	4
33	1-861-010034-15	WASHER, SPLIT LOCK 5/8	32	32
34	202702-10-8S	ADAPTER	- -	4
35	2062-12-8S	ADAPTER, 90	4	- -
36	3-174-010059	CHAIN LINK CONNECTING 5/8	2	2
37	3-174-010039036	CHAIN, 1/2 X 36	2	2
38	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	- -	3
39	55B61	FRAME UNION	REF	REF
40	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1	1

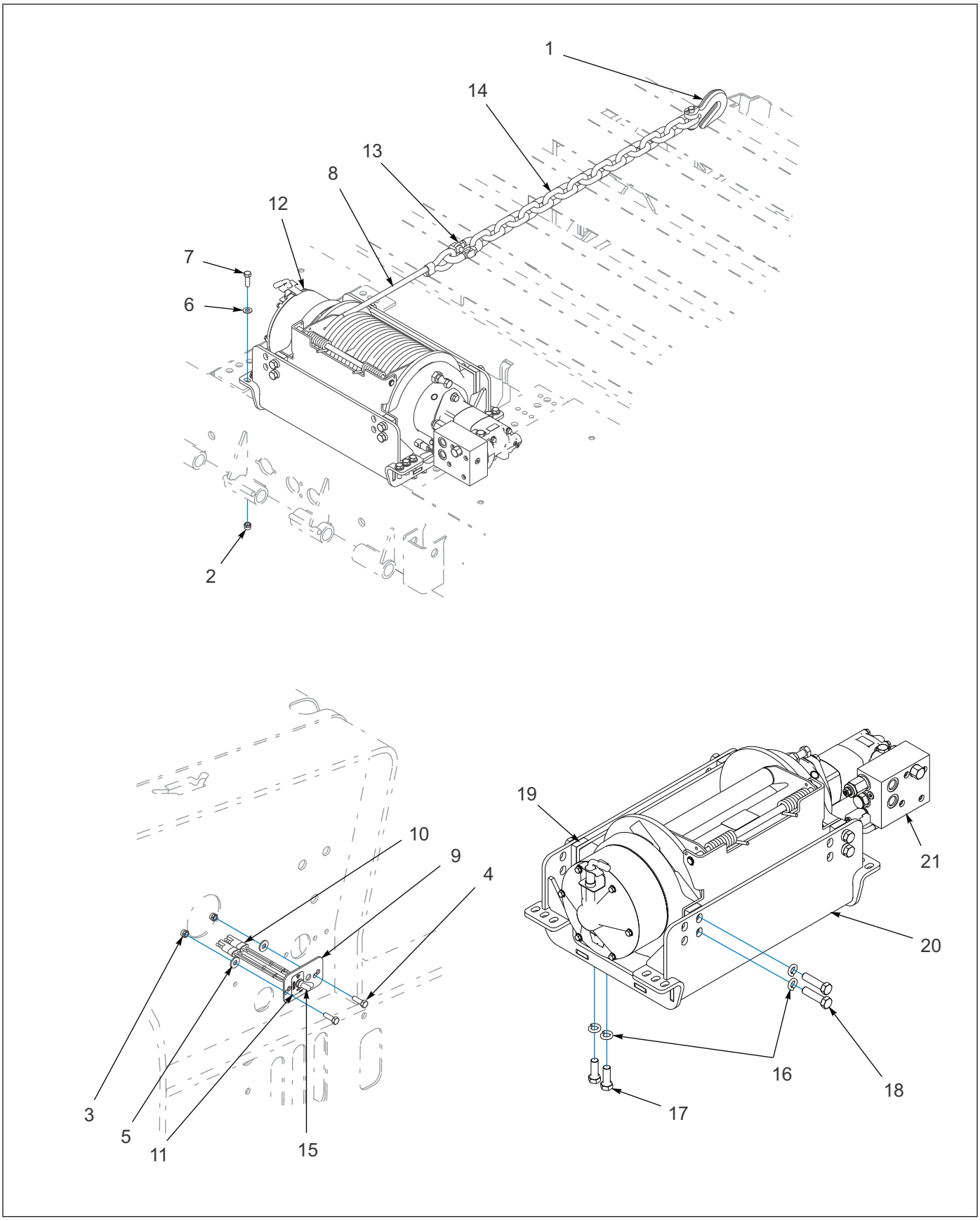


Figure 1-108: Winch Install, Warn 30K, 2 Speed

Winch Install, Warn 30K, 2 Speed

ITEM	PART NO.	DESCRIPTION	QTY.		
	172878	WINCH INSTALLATION, 30K WARN 2 SPEED STD	*		
	173498	WINCH INSTALLATION, 30K WARN 2 SPEED HD		*	
	173499	WINCH INSTALLATION, 30K WARN 2 SPEED ARCTIC			*
1	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GRD80	1	1	1
2	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12	12	12
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2	2
4	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2	2	2
5	1-861-010032-09	WASHER, FLAT 5/16W	2	2	2
6	1-861-010032-14	WASHER, FLAT 1/2	12	12	12
7	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12	12	12
8	132833	CABLE ASSEMBLY, 5/8 X 85 FLEX-X9	REF	REF	REF
9	137987	MOUNT, ELECTRICAL SWITCH	1	1	1
10	150117	TOGGLE SWITCH SEALED SPST	REF	REF	REF
11	174043	DECAL, WINCH HI/LO	1	1	1
12	174552	WINCH ASSEMBLY, WARN 30K 2 SPEED **(INCL. ITEMS 16 - 21)**	1	1	1
13	3-174-010059	CHAIN LINK CONNECTING 5/8	1	1	1
14	3-174-010039036	CHAIN, 1/2 X 36	1	1	1
15	81264	RUBBER BOOT FOR ELECT SWITCH	REF	REF	REF
16	1-861-010034-15	WASHER, SPLIT LOCK 5/8	16	16	16
17	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	8	8	8
18	113299	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR8	8	8	8
19	154234	SPACER, WINCH	4	4	4
20	165429	MOUNT WELDMENT, WINCH WARN	1	1	1
21	174550	WINCH, 20K WARN AR KO	1	1	1

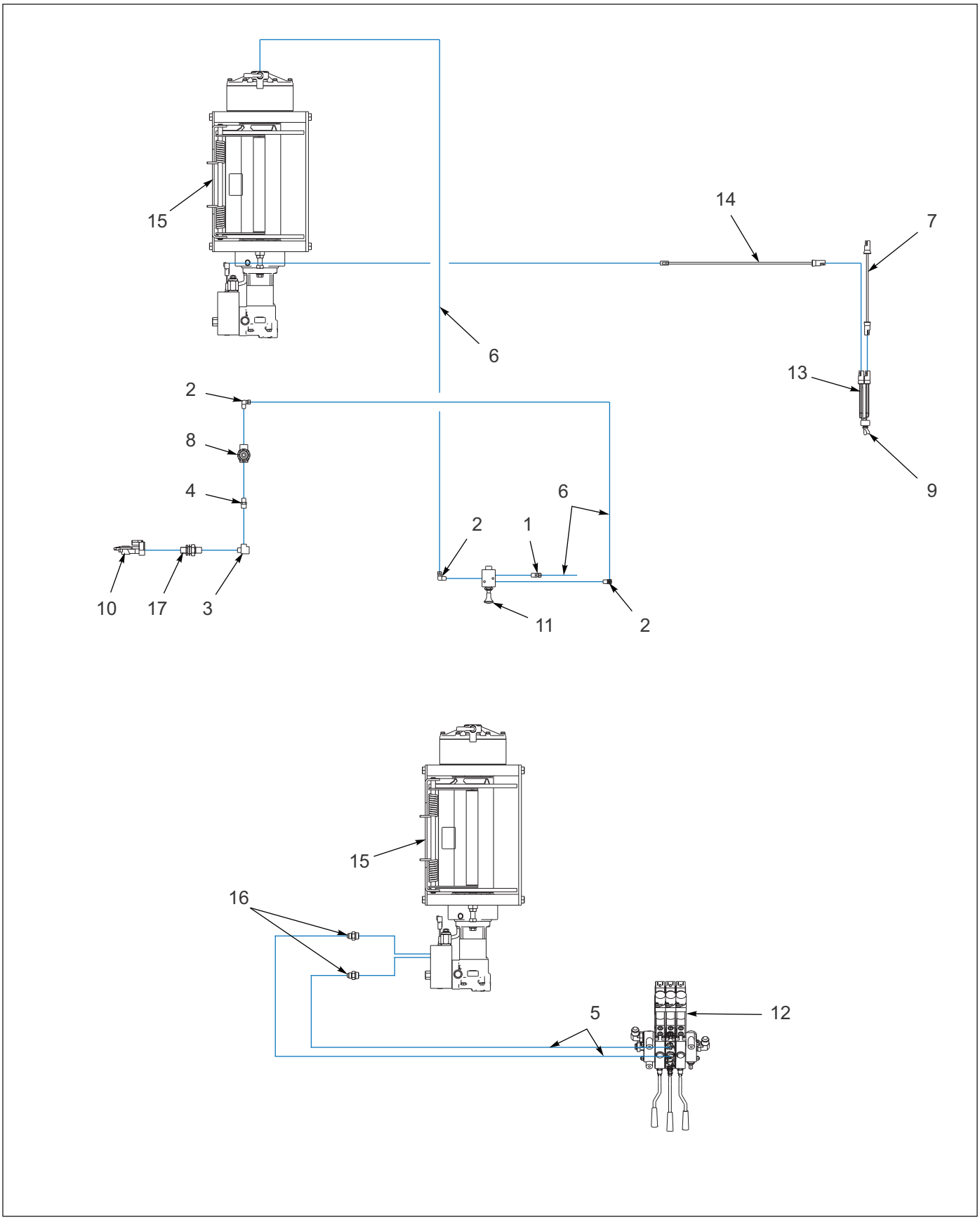


Figure 1-109: Winch Install, Warn 30K, 2 Speed, Hydraulic & Air

Winch Install, Warn 30K, 2 Speed, Hydraulic & Air

ITEM	PART NO.	DESCRIPTION	QTY.		
	172878	WINCH INSTALLATION, 30K WARN 2 SPEED STD	*		
	173498	WINCH INSTALLATION, 30K WARN 2 SPEED HD		*	
	173499	WINCH INSTALLATION, 30K WARN 2 SPEED ARCTIC			*
1	1-297-010007-05	FITTING, AIR	1	1	- -
1	126862	FITTING, COMPR STRAIGHT	- -	- -	1
2	1-297-010008-07	FITTING, AIR 90	3	3	- -
2	126677	FITTING, AIR 90	- -	- -	3
3	1-297-010018-03	FITTING, BRS PIPE ST TEE	REF	REF	REF
4	1-297-010019-05	FITTING, BRS PIPE HEX	1	1	1
5	174188	HOSE ASSEMBLY 1/2 X 182	2	- -	- -
5	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	- -	2	- -
5	139928	HOSE, 1/2 X 172 ARCTIC	- -	- -	2
6	1-833-010001	TUBING, NYLON 1/4 OD	AR	AR	- -
6	126629	TUBING, NYLON 1/4 OD ARCTIC	- -	- -	AR
7	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1	1	1
8	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1	1	1
9	81264	RUBBER BOOT FOR ELECT SWITCH	1	1	1
10	108801	GLAD HAND-RED-AIR **(INCLUDES SEAL 209133)**	REF	REF	REF
11	134657	VALVE, AIR 3 WAY/2 POS	1	1	1
12	148241	VALVE ASSY 3-SPOOL 400 **(SEE PAGE 1-21)**	REF	REF	REF
13	150117	TOGGLE SWITCH SEALED SPST	1	1	1
14	164053	HARNESS, BRANCH WORK LIGHT 102’”	1	1	1
15	174552	WINCH ASSEMBLY, WARN 30K 2 SPEED	REF	REF	REF
16	202702-10-8S	ADAPTER	2	2	2
17	55B61	FRAME UNION	REF	REF	REF

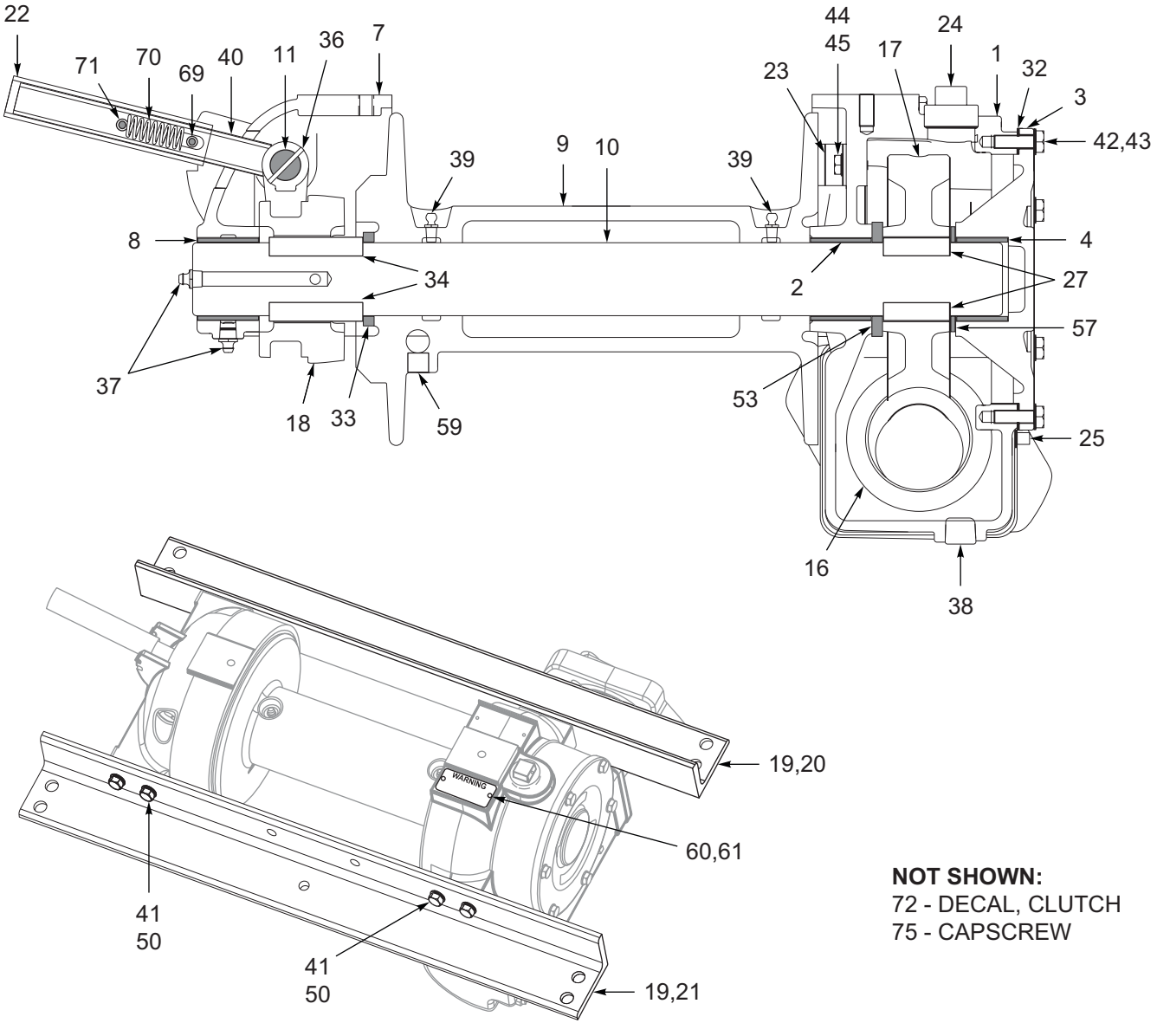


Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-110: Winch Components, Braden 12K, 1 Speed (1 of 2)

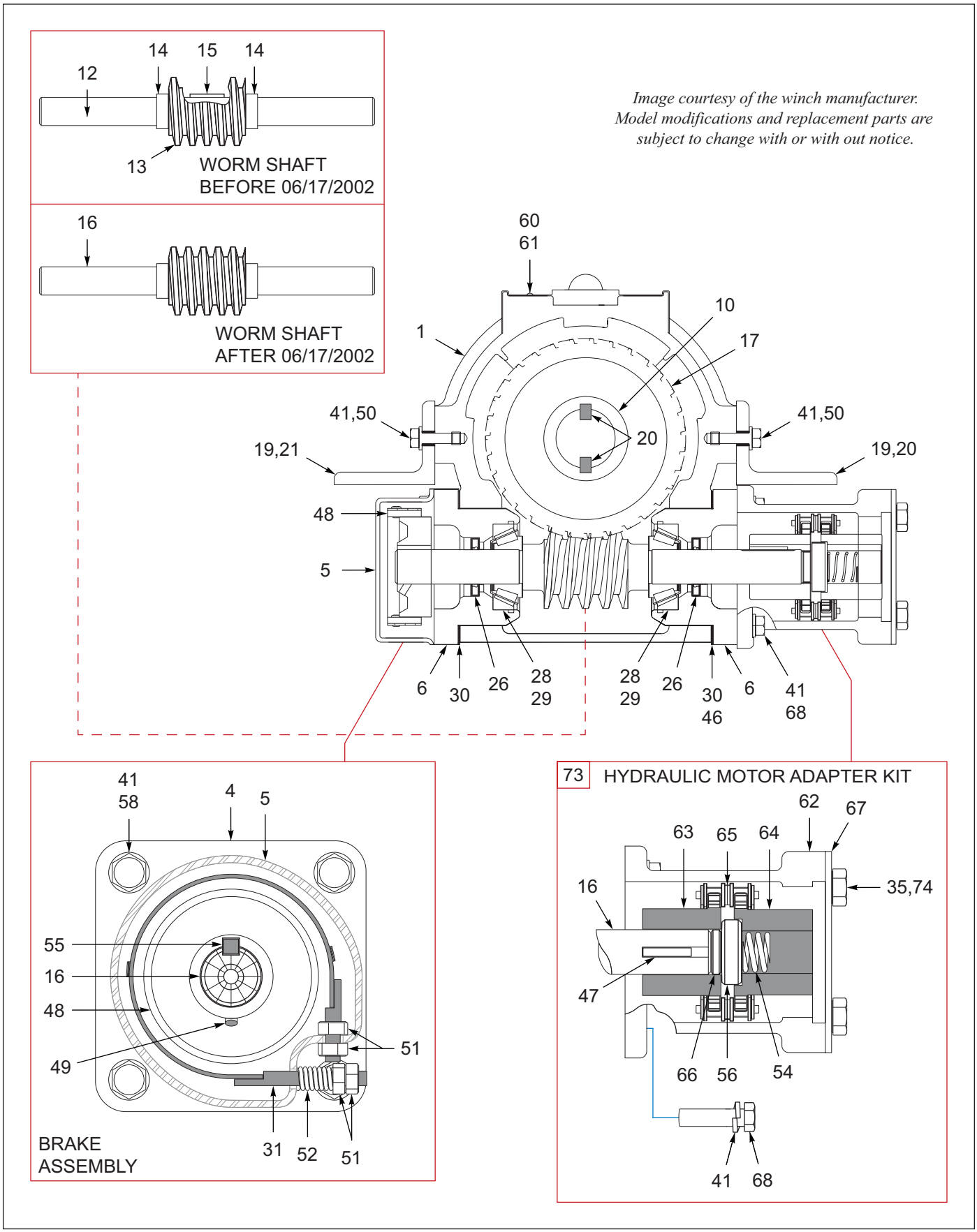


Figure 1-111: Winch Components, Braden 12K, 1 Speed (2 of 2)

Winch Components, Braden 12K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH, WORM GEAR 12,000 LB	1
	3-873-010126-2	WINCH ASSY,12,000 LB PARKER **(2 BOLT MOUNT MOTOR)**	1
1	81006	HOUSING **(INCLUDES ITEM 2)**	1
2	18078	BUSHING-WORM HSNG ASSY12MBRAD **(INCLUDED WITH ITEM 1)**	1
3	81009	LU2-144-0 WORM HOUSING COVER **(INCLUDES ITEM 4)**	1
4	11368	BUSHING 12K WORM WINCH HOUSING **(INCLUDED WITH ITEM 3)**	1
5	18032	BRAKE HSG	1
6	23303	BEARING CONTAINER	2
7	81530	LEG ASSY **(INCLUDES ITEM 8)**	1
8	18077	BUSHING **(INCLUDED WITH ITEM 7)**	1
9	11128	CABLE DRUM	1
10	11129	CABLE DRUM SHAFT **(BEFORE 06/17/2013**)	1
10	248594	CABLE DRUM SHAFT 12K **(AFTER 06/17/2013)**	1
11	11130	SHIFTER SHAFT BRADEN	1
12	23470	WORM SHAFT **(BEFORE 06/17/2002, REPLACED BY ITEM 16)**	1
13	11142	WORM **(LITTLE GEAR)** **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	1
14	11308	WORM SPACER **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	2
15	18030	KEY **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	1
16	248595	WORM LU2-L GEAR/SHAFT 12K **(AFTER 06/17/2002, REPLACED ITEMS 12-15)**	1
17	11144	GEAR, WORM, LH **(BIG GEAR)**	1
18	18039	CLUTCH COLLAR	1
19	22752	ANGLE BASE ALU-2-146 12M BRAD **(BEFORE 10/23/1990, AFTER, REPLACED BY ITEMS 20-21)**	2
20	248596	BASE ANGLE 12K MOTOR SIDE **(AFTER 10/23/1990, REPLACED ITEM 19)**	1
21	249510	BASE ANGLE 12K BRAKE SIDE **(AFTER 10/23/1990, REPLACED ITEM 19)**	1
22	12817	SHIFTER HANDLE	1
23	81025	DRAG BRAKE LGU2-10F WINCH	1
24	248358	PLUG	1
25	18009	PLUG	1
26	18026	SEAL	2
27	11117	KEY	2
28	18015	BEARING CONE BRADEN LGU2	2
29	18016	BEARING CUP BRADEN LGU2	2
30	18027	GASKET **(USED TO SHIM BEARING PRELOAD, QTY VARIES)**	6
31	21925	BRK BAND ASSY	1
32	11133	SEAL	1
33	18019	RING RETAINER	1
34	18020	CLUTCH KEY	2
35	248597	CAPSCREW 12K BRADEN **(SHIPPING COVER)**	2
36	11837	ROLL PIN	1
37	18047	GREASE FITTING **(BEFORE 06/17/2013, REQ 1 EACH, BOTTOM FITTING) (AFTER 06/17/2013 FITTING ON END OF THE SHAFT ADDED)**	2
38	19045	DRAIN PLUG	1

Winch Components, Braden 12K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
39	248598	FITTING GREASE 12K BRADEN	2
40	13839	SHIFTER FORK LGU2	1
41	248599	LOCKWASHER 12K BRADEN **(INCLUDED WITH ITEM 73, 4 EACH)**	16
42	248600	CAPSCREW 12K BRADEN	6
43	248601	WASHER SHPRF BRADEN 12K	6
44	249506	CAPSCREW 12K BRADEN	2
45	249507	WASHER SHPRF 12K WASHER	2
46	18024	GASKET	1
47	18044	KEY	1
48	18028	BRAKE DRUM	1
49	12075	SET SCREW	1
50	247943	CAPSCREW	8
51	13468	NUT	4
52	18029	BRAKE BAND SPRING	1
53	11240	THRUST RING BRADEN LUU2	1
54	110452	SPRING #23353 **(INCLUDED WITH ITEM 73)**	1
55	10078	ROTOR KEY	1
56	23078	CONSTANT SPACER **(INCLUDED WITH ITEM 73)**	1
57	13680	RING,THRUST	1
58	249508	CAPSCREW 12K BRADEN **(INCLUDED WITH ITEM 73)**	4
59	218058	SET SCREW 12K WINCH CABLE	1
60	248506	WARNING PLATE BRADEN	1
61	248507	DRIVE SCREW BRADEN 20K	2
62	23079	MOTOR ADAPTER 12M WINCH **(INCLUDED WITH ITEM 73)**	1
63	23081	COUPLER HALF WINCH **(INCLUDED WITH ITEM 73)**	1
64	23083	COUPLING HALF MOTOR LGU2-10F **(INCLUDED WITH ITEM 73)**	1
65	13424	CHAIN RLR **(INCLUDED WITH ITEM 73)**	1
66	115851	SPACER #23085 **(INCLUDED WITH ITEM 73)**	1
67	249509	SHIELD DUST MU7-502DG 12K **(SHIPPING COVER)**	1
68	110449	CAPSCREW **(INCLUDED WITH ITEM 73)**	4
69	13028	ROLL PIN	1
70	18002	SPRING	1
71	18056	ROLLPIN	1
72	100600	DECAL, CLUTCH	1
73	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH **(INCLUDES ITEMS 41, 54, 56, 58, 62-68, 74-75)**	1
74	216581	LOCKWASHER **(INCLUDED WITH ITEM 73) (SHIPPING COVER)**	4
75	248511	CAPSCREW **(INCLUDED WITH ITEM 73) (MOTOR SIDE, NOT USED)**	4
76	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
77	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
78	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A **(KEY SHAFT, 2 BOLT MOUNT)** **(COMPONENTS - SEE PAGE 1-200)**	1

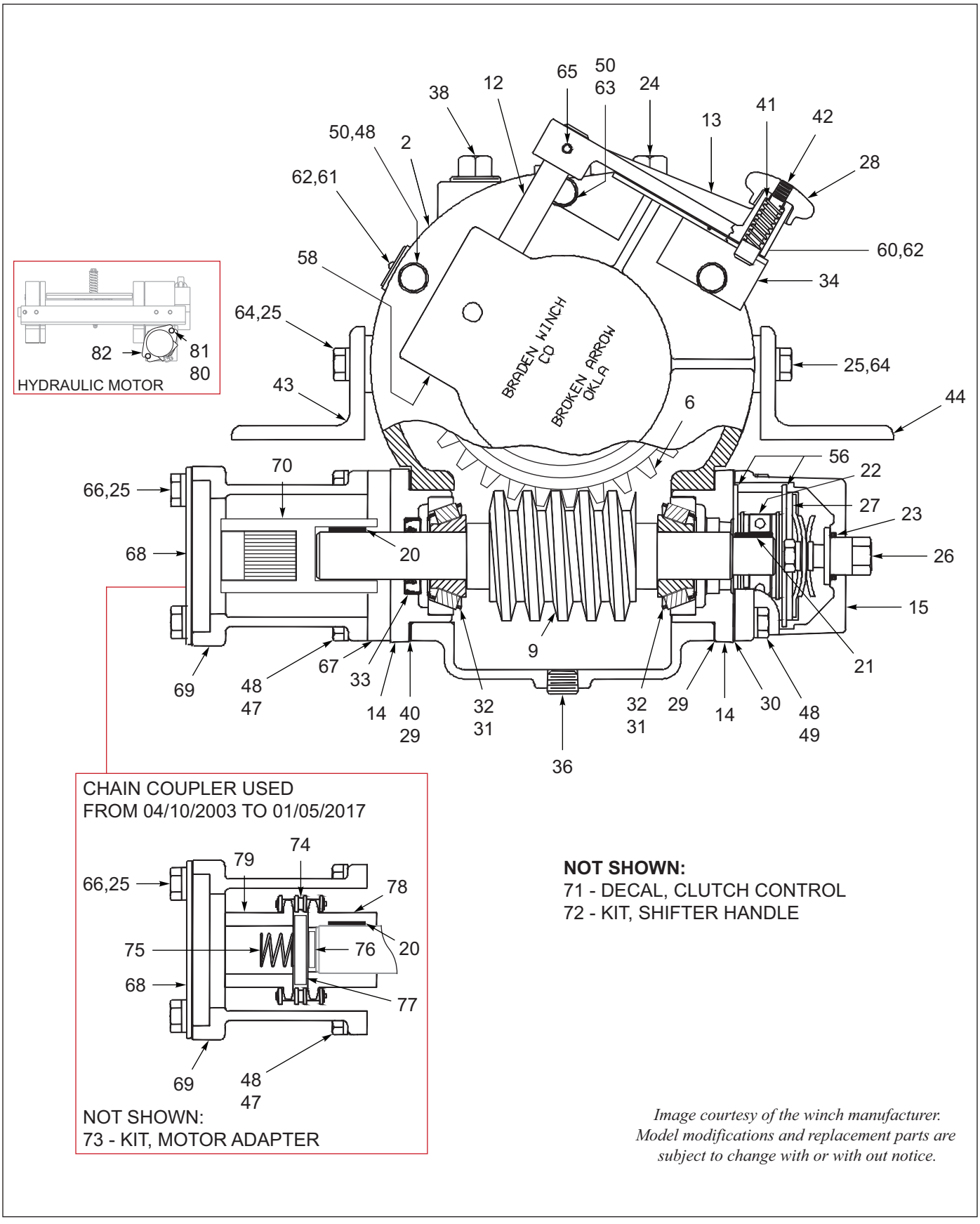


Figure 1-112: Winch Components, Braden 20K, 1 Speed (1 of 2)

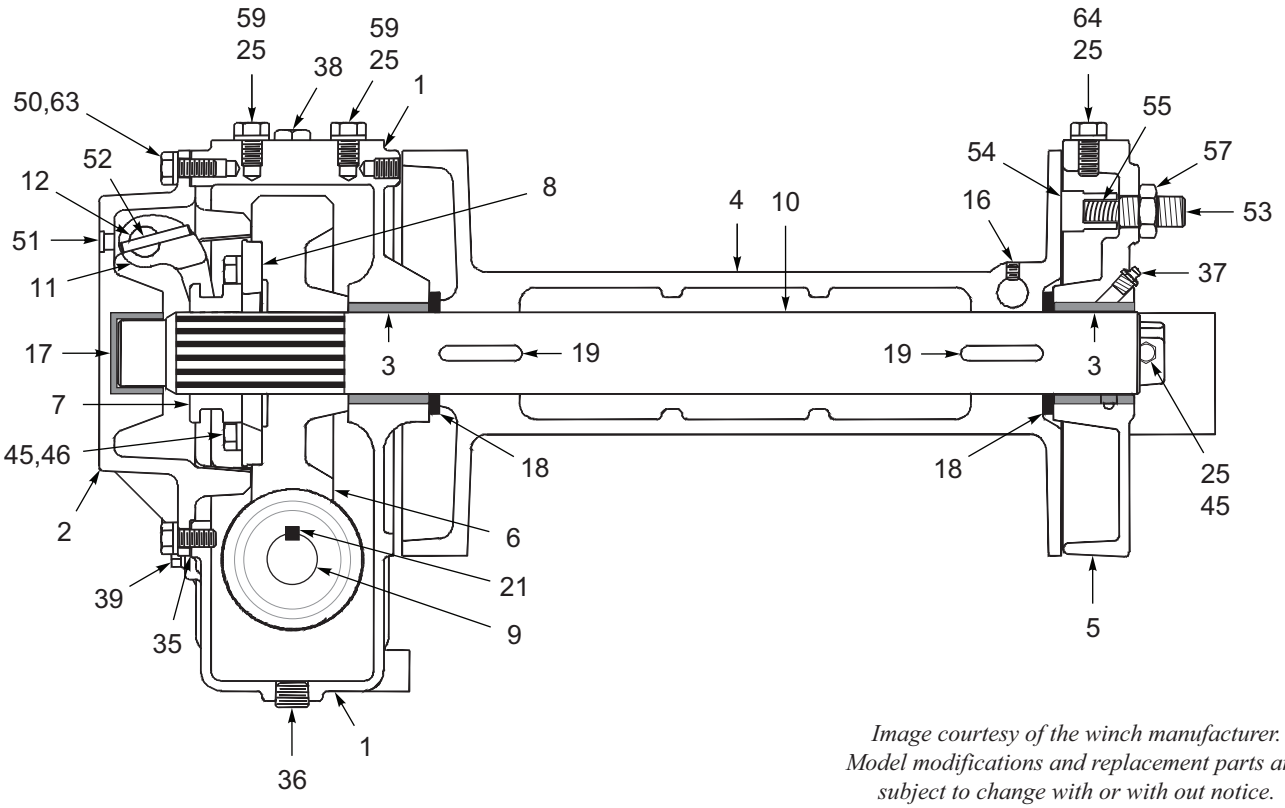


Figure 1-113: Winch Components, Braden 20K, 1 Speed (2 of 2)

Winch Components, Braden 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH,WORM GEAR,20,000LB BRADN	1
	3-873-010129-2	WINCH ASSY,20000 LB, PARKER	1
1	81078	WORM HOUSING ASSY	1
2	248354	WORM HOUSING COVER ASSY	1
3	18035	BUSHING	2
4	11449	DRUM CABLE, BRADEN 20K WINCH	1
5	81077	LEG ASSEMBLY, BEARING	1
6	11434	GEAR,WORM, RIGHT **(BIG GEAR)**	1
7	11421	SLIDING CLUTCH	1
8	11419	CLUTCH DRIVE	1
9	248355	WORM AMU7-R GEAR/SHAFT **(GEAR & SHAFT 1 PIECE)**	1
10	139479	CABLE DRUM SHAFT	1
11	11440	SHIFTER FORK AMU7-16F WINCH	1
12	11441	SHAFT, SHIFTER	1
13	26976	SHIFTER HANDLE AMU7 WINCH **(INCLUDED WITH ITEM 72)**	1
14	124549	BEARING CONTAINER #11427	2
15	248356	MU7-250 WM BRAKE COVER	1
16	139478	SET SCREW FOR 20K WINCH	1
17	11425	BUSHING	1
18	11420	RING, RETAINING	2
19	163472	KEY, DRUM SHAFT	4
20	23367	KEY SPROCKET **(INCLUDED WITH ITEM 73)**	1

Winch Components, Braden 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
21	10078	ROTOR KEY	1
22	81080	ROTOR ASSY, BRAKE	1
23	12465	O-RING	1
24	248357	PIPE PLUG	1
25	216581	LOCKWASHER **(SHIPPING COVER, REQ 4 EACH, INCLUDED IN ITEM 73)**	15
26	81081	SPRING ASSY SAFETY BRAKE 20K	1
27	11431	PRESSURE PLATE AMU7 WINCH	1
28	18022	SHIFTER KNOB 20# WINCH **(INCLUDED WITH ITEM 72)**	1
29	11429	GASKET **(USED TO SHIM BEARING PRELOAD, QTY VARIES)**	6
30	11446	GASKET	1
31	18033	BEARING, CONE	2
32	18034	BEARING, CUP	2
33	12073	SEAL, GREASE	1
34	12783	LOCATING BRACKET AMU7 WINCH	1
35	11411	HOUSING COVER GASKET AMUF-16F	1
36	19045	DRAIN PLUG	1
37	18047	GREASE FITTING	1
38	248358	PLUG	1
39	248359	PLUG	1
40	11430	GASKET	1
41	11310	SPRING, SHIFTER KNOB 20# WNCH **(INCLUDED WITH ITEM 72)**	1
42	11309	STEM, SHIFTER KNOB 20# WINCH **(INCLUDED WITH ITEM 72)**	1
43	248360	BASE ANGLE FRONT	1
44	248361	BASE ANGLE REAR	1
45	248309	CAPSCREW MOTOR BRADEN 20K	12
46	248363	LOCKWASHER KEV 1 BRADEN 20K	8
47	248364	CAPSCREW BRADEN 20K **(INCLUDED WITH ITEM 73)**	4
48	248501	LOCKWASHER 20K BRADEN **(INCLUDED WITH ITEM 73, 4 EACH)**	13
49	248502	CAPSCREW BRADEN 20K	4
50	248503	CAPSCREW BRADEN 20K	6
51	12146	PLUG, EXPANSION	1
52	13028	ROLL PIN **(SHIFTER SHAFT TO FORK)**	1
53	11398	SCREW, ADJUSTMENT	1
54	88005	DRAG BRAKE SHOE ASSY	1
55	18002	SPRING	1
56	11426	DISC, FRICTION	2
57	11791	NUT, JAM	1
58	12767	PLUG, EXPANSION	1
59	248504	CAPSCREW BRADEN 20K	2
60	248505	NAMEPLATE (AMU7) SAE BRADEN	1
61	248506	WARNING PLATE BRADEN	1
62	248507	DRIVE SCREW BRADEN 20K **(USED TO MOUNT ITEMS 61-62)**	4
63	248508	WASHER SHPRF 20K BRADEN	1
64	248509	CAPSCREW BRADEN 20K	5
65	248510	ROLL PIN HANDLE TO SHIFTER **(HANDLE TO SHAFT)**	1
66	248511	CAPSCREW BRADEN 20K **(SHIPPING COVER)** **(INCLUDED WITH ITEM 73)**	4
67	248512	ADAPTER SPACER 20K BRADEN **(INCLUDED WITH ITEM 73)**	1

Winch Components, Braden 20K, 1 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
68	248513	COVER PLATE 20K BRADEN **(SHIPPING COVER)**	1
69	23144	ADAPTER MOTOR 20M WINCH **(INCLUDED WITH ITEM 73)**	1
70	248516	SOLID COUPLING BRADEN 20K **(AFTER 01/05/2017)** **(BEFORE 01/05/2017, CHAIN COUPLER USED)**	1
71	100600	DECAL, CLUTCH CONTROL **(NOT SHOWN) (AFTER 01/05/2017)**	1
72	125684	SHIFTER HANDLE BLACK **(KIT INCLUDES ITEMS 13, 28, 41-42)**	1
73	61344	MOTOR ADPT 20M BRADEN WINCH **(CHAIN COUPLER KIT ONLY) (FROM 04/10/2003 TO 01/05/2017)** **(KIT INCLUDES ITEMS 20, 25, 47-48, 66-67, 69, 74-79)**	1
74	13424	CHAIN RLR **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
75	110452	SPRING #23353 **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
76	115851	SPACER #23085 **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
77	248514	CONSTANT SPACER 20K BRADEN **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
78	23082	WINCH SPROCKET 20K BRADEN **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
79	23145	MOTOR SPROCKET 20K BRADEN **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
80	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
81	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
82	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B **(SPLINE SHAFT, 2 BOLT MOUNT)** **(COMPONENTS - SEE PAGE 1-200)**	1

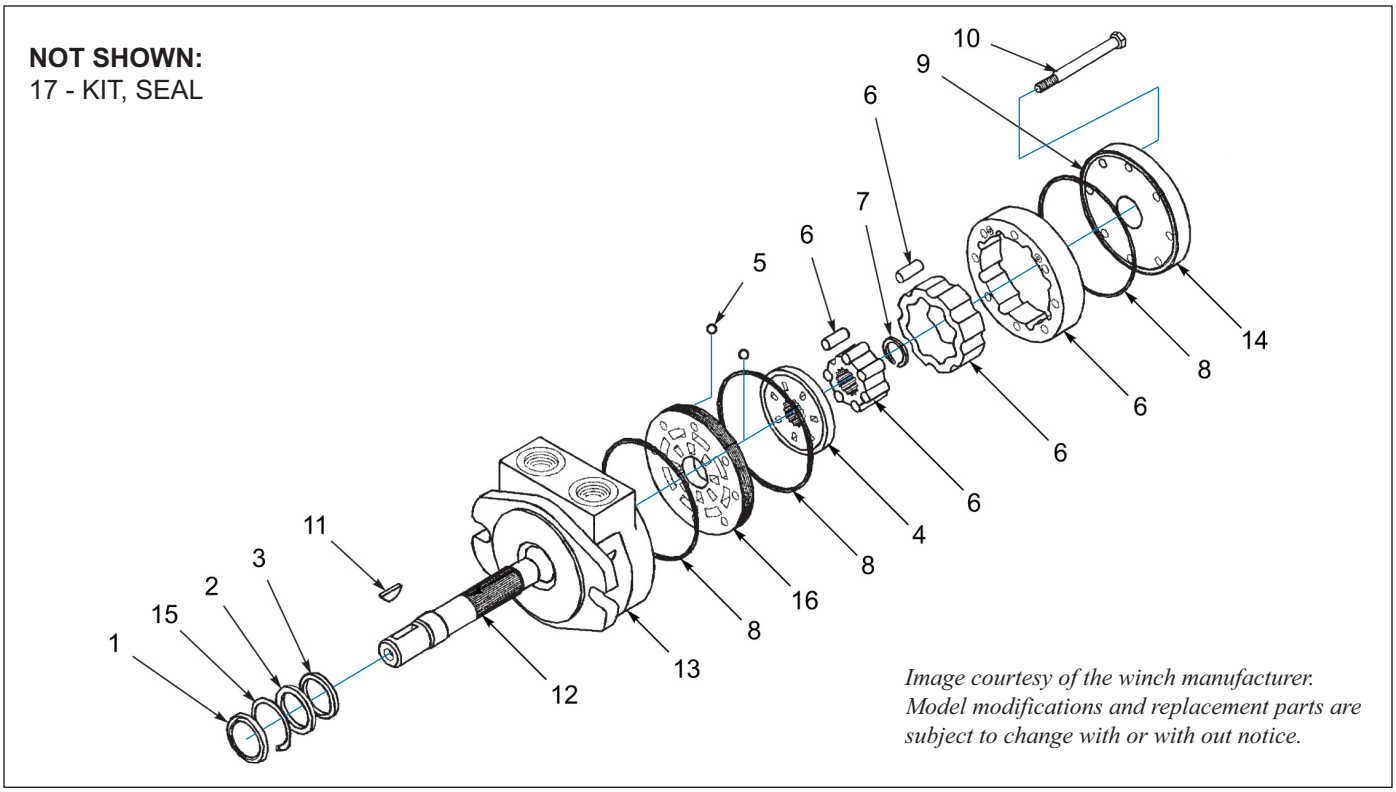


Figure 1-114: Winch Components, Braden 12K / 20K, 1 Speed Motor

Winch Components, Braden 12K / 20K, 1 Speed Motor

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A **(12K WINCH)**	1
	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B **(20K WINCH)**	1
1	- - - - -	SEAL DUST	1
2	- - - - -	BACK-UP RING	1
3	- - - - -	SEAL LIP	1
4	- - - - -	ROTARY VALVE	1
5	- - - - -	CHECK VALVE BALL	2
6	- - - - -	IGR ASSEMBLY - 20K WINCH	1
6	- - - - -	IGR ASSEMBLY - 12K WINCH	1
7	- - - - -	SNAP RING	1
8	1046	SEAL SQ RING,MOTOR	3
9	- - - - -	PLUG VENT W/O-RING	1
10	- - - - -	BOLTS HEX - 20K WINCH	8
10	- - - - -	BOLTS HEX - 12K WINCH	8
11	- - - - -	KEY WOODRUFF	1
12	- - - - -	SHAFTFOR - 20K WINCH **(SPLINED SHAFT)**	1
12	- - - - -	SHAFTFOR - 12K WINCH **(KEY SHAFT)**	1
13	- - - - -	BODY/BEARING ASSEMBLY - 20K WINCH	1
13	- - - - -	BODY/BEARING ASSEMBLY - 12K WINCH	1
14	- - - - -	COVER/BEARING ASSEMBLY	1
15	- - - - -	SNAP RING SHAFT	1
16	- - - - -	COMMUTATOR PLATE	1
17	2263	KIT, SEAL **(NOT SHOWN)**	1
17	- - - - -	SEAL KIT BODY VITON **(NOT SHOWN)**	1

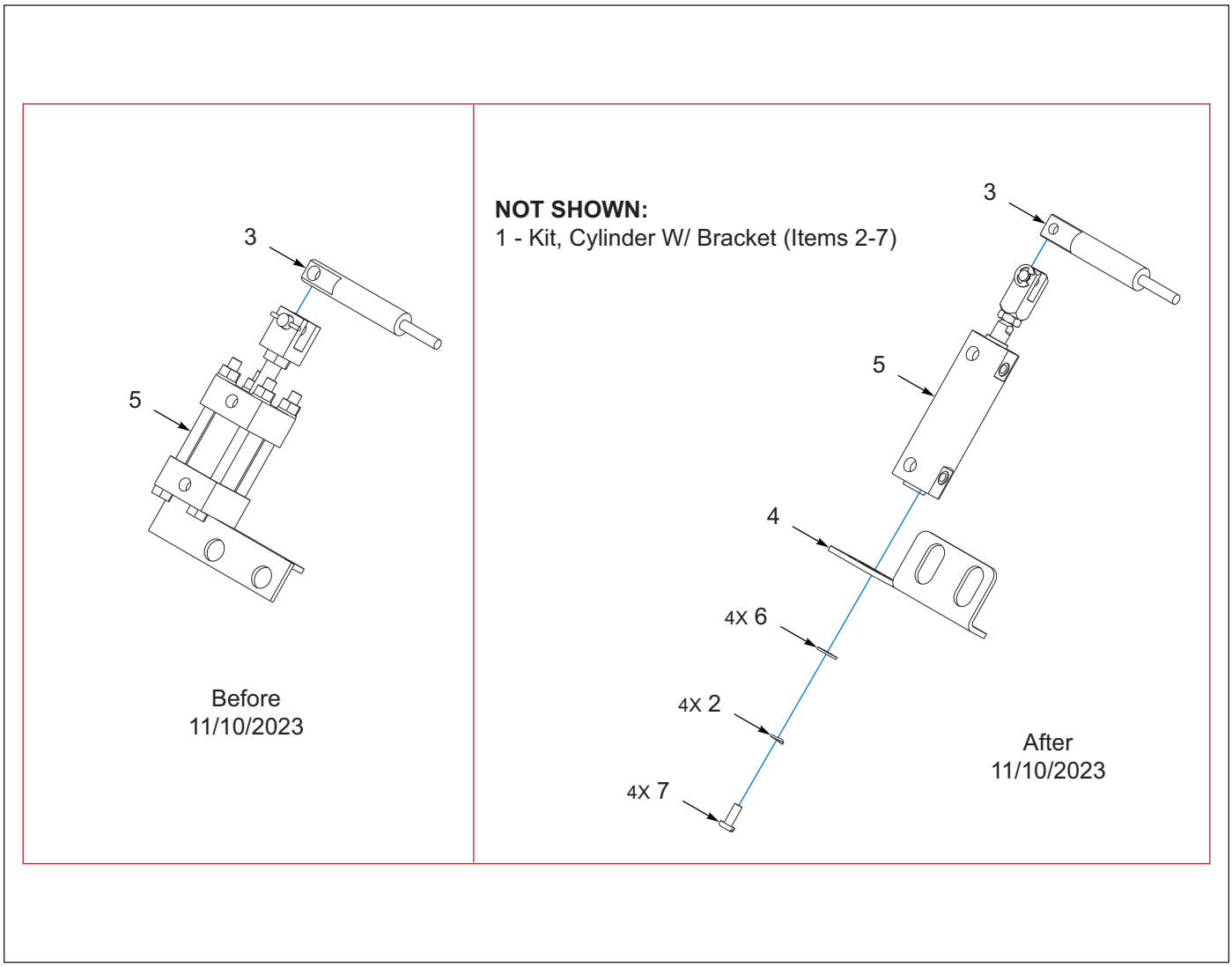


Figure 1-115: Winch Components, Braden 20K, 1-Spd, Free Spool Air Cylinder

Winch Components, Braden 20K, 1 Spd, Free Spool Air Cylinder

ITEM	PART NO.	DESCRIPTION	QTY.
1	107368	CYLINDER AIR W/BRKT WNCH R/SP **(NEW STYLE CONVERSION KIT, INCLUDES ITEMS 2-7)**	1
2	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4
3	- - - - -	LEVER WINCH FREE-SPOOL **(OBSOLETE, ORDER ITEM 1)**	- -
3	247863	LEVER WINCH FREE-SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	1
4	247864	ANGLE WINCH FREE SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1) (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
5	- - - - -	CYLINDER AIR W/BRKT WNCH R/SP **(OBSOLETE, ORDER ITEM 1)**	- -
5	247865	CYLINDER AIR 1" STROKE SMC **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1) (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
6	25E10E	WASHER, FLAT #10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4
7	86G1008E	SCREW PAN HD SL #10-32X.50 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4

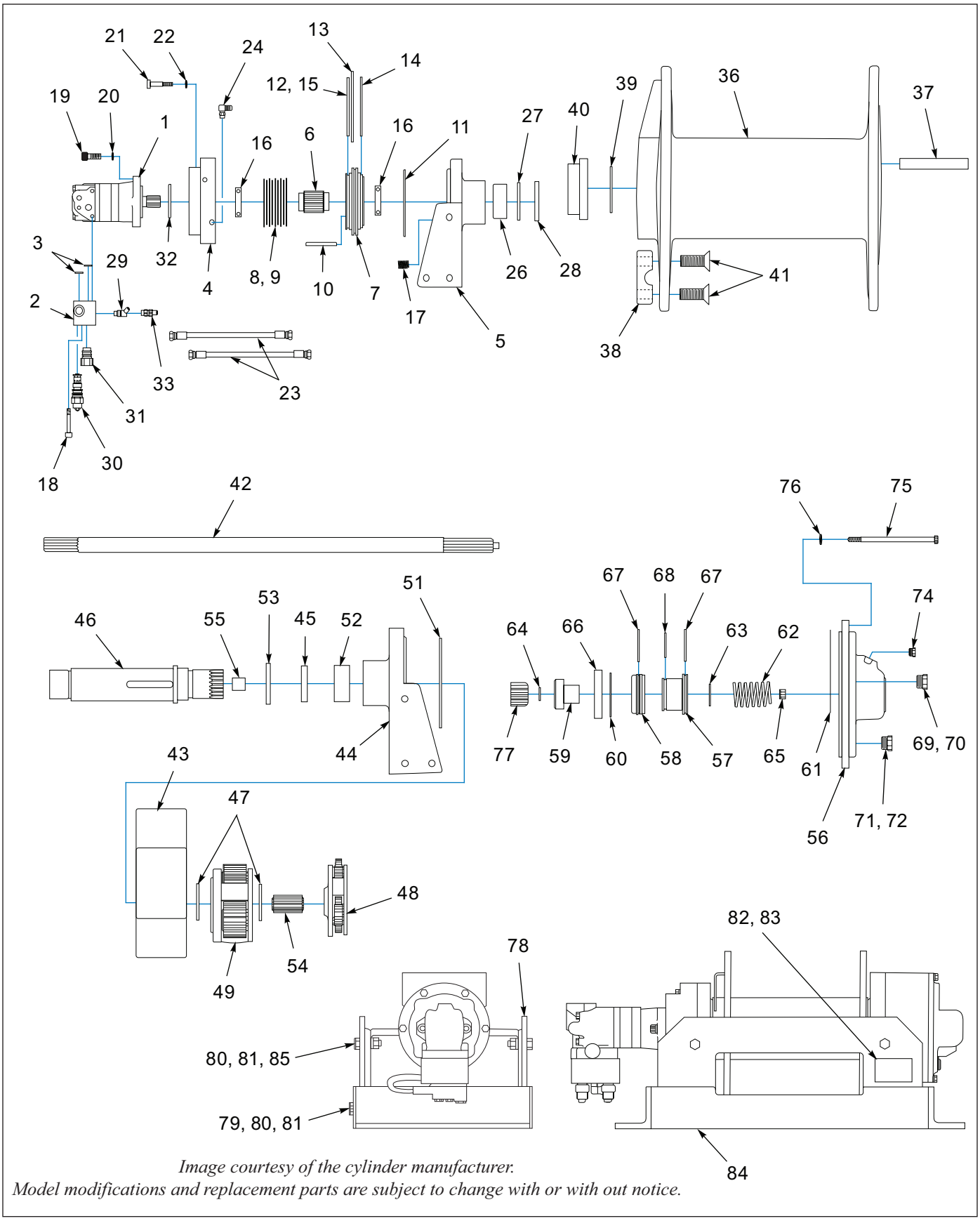


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-116: Winch Components, DP 30K

Winch Components, DP 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010173	WINCH 30K ITEMS	1
1	137887	MOTOR, HYDRAULIC	1
2	137888	VALVE, COUNTERBALANCE	1
3	- - - - -	O-RING, 13/16 I.D. X 3/32 SECTION	2
4	- - - - -	BRAKE HOUSING	1
5	- - - - -	SUPPORT MOTOR END	1
6	- - - - -	SHAFT BRAKE	1
7	- - - - -	PISTON BRAKE	1
8	- - - - -	PLATE DISC FRICTION	10
9	- - - - -	PLATE DRIVE BRAKE	9
10	- - - - -	PIN DOWEL 5/16 DIA. X 3-1/2	2
11	137993	O-RING, 7 O.D. X 6-3/4 I.D.	1
12	137994	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
13	137421	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16	2
14	- - - - -	RING, BACK-UP	1
15	137422	RING, BACK-UP 5-3/8 I.D.	1
16	- - - - -	BEARING BALL 1-3/4 I.D.	2
17	- - - - -	SPRING COMPRESSION	12
18	- - - - -	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
19	- - - - -	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
20	- - - - -	WASHER, LOCK HI COLLAR 1/2	6
21	- - - - -	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
22	- - - - -	WASHER, LOCK 7/16	4
23	- - - - -	HOSE 1/4R1 X 12”	1
24	- - - - -	ADAPTER 90	1
25	- - - - -	TAG WARNING **(NOT SHOWN)**	1
26	- - - - -	BEARING -TORRINGTON	1
27	- - - - -	WASHER THRUST BRONZE	1
28	137880	SEAL SHAFT	1
29	137641	ADAPTER 45	REF
30	137883	CARTRIDGE COUNTERBALANCE	1
31	137884	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
32	137882	O-RING 3 ID X 1/8 SECTION	1
33	- - - - -	ADAPTER STRAIGHT	REF
34	137885	DISC PLATE KIT **(INCLUDES ITEMS 8-9 & 17)**	REF
35	137886	SEAL KIT **(INCLUDES ITEMS 11-15)**	REF
36	- - - - -	DRUM	1
37	- - - - -	KEY DRUM	2
38	137569	CLIP CABLE THREADED	1
39	- - - - -	O-RING 2-5/8 ID X 1/8 W	1
40	- - - - -	SPACER	1
41	137570	CAP SCREW, FLAT SKT HEAD 5/8-11 X 1-3/4	REF
42	- - - - -	SHAFT INPUT	1
43	- - - - -	GEAR RING	1
44	- - - - -	SUPPORT GEAR END	1
45	- - - - -	WASHER THRUST	1
46	- - - - -	SHAFT OUTPUT	1
47	- - - - -	WASHER THRUST NYLON 3-1/2 OD X 3/16	2
48	- - - - -	CARRIER ASSEMBLY PRIMARY	1

Winch Components, DP 30K

ITEM	PART NO.	DESCRIPTION	QTY.
49	- - - - -	CARRIER ASSEMBLY SECONDARY	1
50	- - - - -	LABEL WARNING **(NOT SHOWN)**	1
51	137879	O-RING 8-3/4 I.D. X 1/8 SECTION	1
52	- - - - -	BEARING	1
53	137880	SEAL SHAFT	1
54	- - - - -	GEAR SUN	1
55	- - - - -	BUSHING ID 1-1/4 OD X 1 LG	1
56	- - - - -	COVER GEAR END	1
57	- - - - -	PISTON AKO B/C/D	1
58	- - - - -	CYLINDER PISTON	1
59	- - - - -	COUPLING DRIVE	1
60	- - - - -	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
61	137879	O-RING 8-3/4 I.D. X 1/8 SECTION	1
62	- - - - -	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
63	- - - - -	RING RETAINING 1-1/4	1
64	- - - - -	RING RETAINING RD SEC .805 I.D.	1
65	- - - - -	SPRING COMPRESSION	1
66	- - - - -	WASHER THRUST BRONZE 3.81 X .406 W	1
67	137881	O-RING 2-5/8 I.D. X 1/8 SECTION	2
68	- - - - -	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
69	105967	PLUG SKT HD O-RING #10 7/8 - 14	1
70	- - - - -	O-RING .755 I.D. X .097 W 3-910	1
71	105954	PLUG SKT HD O-RING MAG #10	1
72	- - - - -	O-RING .755 I.D. X .097 W 3-910	1
73	- - - - -	CAPLUG #4 RED (NOT SHOWN)	1
74	105953	RELIEF VENT	1
75	- - - - -	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
76	- - - - -	WASHER LOCK 3/8	12
77	- - - - -	GEAR SUN AKO	1
78	- - - - -	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
79	- - - - -	SCREW CAP HEX HEAD 5/8-11 X 2-1/2 GR5	12
80	- - - - -	NUT HEX 5/8 - 11 GR2	12
81	- - - - -	WASHER LOCK 5/8 MEDIUM PLAIN	12
82	- - - - -	RIVET DRIVE U TYPE #2 X 1/4 LONG	4
83	- - - - -	PLATE INFORMATION	1
84	- - - - -	BASE SUPPORT	REF
85	- - - - -	CAP SCREW, HEX HEAD 5/8-11 X 2 GR5	REF

Table provided for general use.

NOTES:

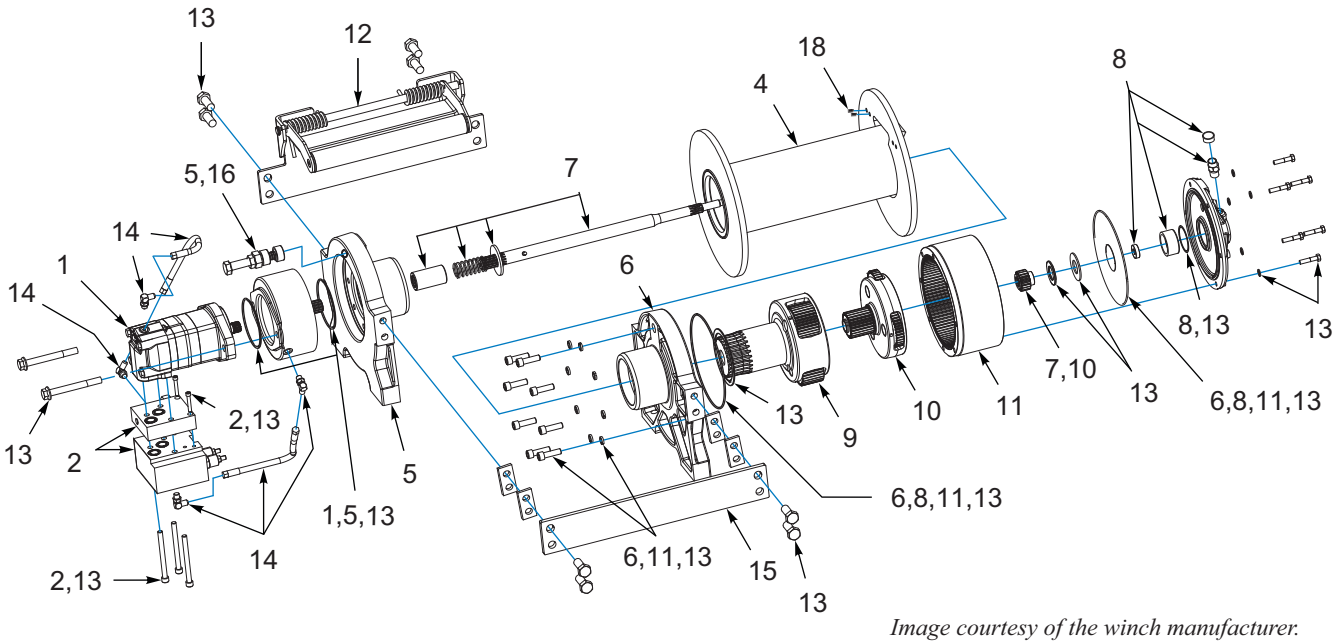
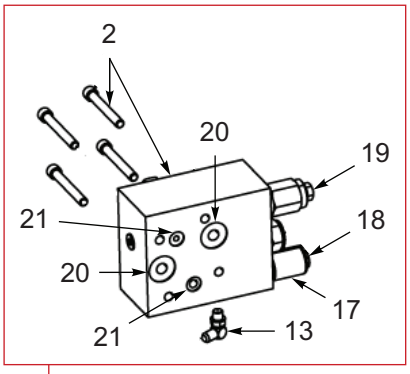


Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

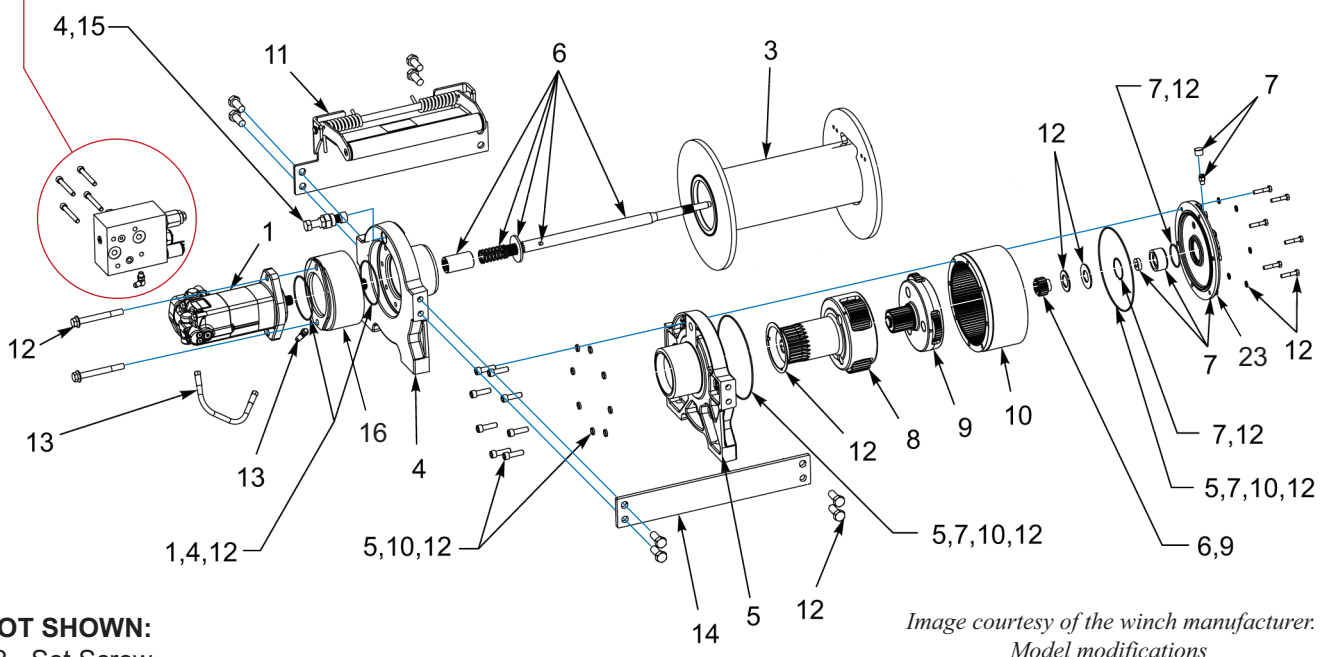
Figure 1-117: Winch Components, Warn 20K, 1 Speed, Air Kick Out

Winch Components, Warn 20K, 1 Speed, Air Kick Out

ITEM	PART NO.	DESCRIPTION	QTY.
	151819	WINCH, 20K WARN AIR KICKOUT	- -
1	167818	SERVICE KIT - MOTOR HYD 11.9CI	1
2	161590	SERVICE KIT - MANIFOLD HYD	1
3	162207	SERVICE KIT - BRAKE ASSEMBLY	1
4	162208	SERVICE KIT - DRUM ASSEMBLY 20K LONG	1
5	167819	SERVICE KIT - DRUM RETARDER DRUM SUPPORT	1
6	162210	SERVICE KIT - DRUM SUPPORT, GEAR END	1
7	162211	SERVICE KIT - DRIVE SHAFT, LONG	1
8	167820	SERVICE KIT - END HSG ASSY AIR	1
9	162213	SERVICE KIT - CARRIER, STAGE 2 6.0-4.75	1
10	162214	SERVICE KIT - CARRIER, STAGE 1 6.0-4.75	1
11	162215	SERVICE KIT - RING GEAR	1
12	162216	SERVICE KIT - TENSIONER LONG	1
13	162217	SERVICE KIT - HARDWARE SEAL	1
14	162218	SERVICE KIT - HOSE HYD	1
15	162219	SERVICE KIT - TIE PLATE LONG	1
16	167821	SERVICE KIT - DRUM RETARDER	1
17	162220	WIRE ROPE ASSEMBLY 9/16 X 245' **(NOT SHOWN)**	1
18	201650	SET SCREW	1



NOTE:
Gold Hydraulic Manifold, Old Style (EATON)
Black Hydraulic Manifold, New Style (PARKER)



NOT SHOWN:
22 - Set Screw

Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-118: Winch Components, Warn 20K, 2 Speed

Winch Components, Warn 20K, 2 Speed

ITEM	PART NO.	DESCRIPTION	QTY.
	167521	WINCH 20K WARN 2 SPEED	1
1	178718	MOTOR-HYD 11.9 CIR 2K STD	1
2	161590	SVC KIT-MANIFOLD-HYD **(EATON, GOLD BODY)**	1
2	178715	SVC KIT-MANIFOLD-HYD **(PARKER, BLACK BODY)**	1
3	162208	SVC KIT - DRUM ASSY 20K LONG	1
4	178999	SVC KIT - DRM RETRD_DRM SPPRT	1
5	162210	SVC KIT-DRUM SPRT GEAR END N	1
6	162211	SVC KIT-DRIVE SHAFT LONG N	1
7	162941	SVC KIT - END HSG ASSY - AIR	1
8	162213	SVC KIT-CARRIER STG2	1
9	162214	SVC KIT-CARRIER STG1	1
10	162215	SVC KIT-RING GEAR	1
11	162216	SVC KIT-TENSIONER	1
12	179000	SVC KIT - HARDWARE-SEAL	1
13	162218	SVC KIT-HOSE HYD	1
14	162219	SVC KIT-TIE PLATE LONG	1
15	179001	SVC KIT - DRUM RETARDER	1
16	162207	SVC KIT - BRAKE ASSEMBLY	1
17	199104	SOLENOID COIL 12V 2SP WARN **(EATON)** **(SILVER ROUND BODY, DUETSCH CONNECTOR ON A LEAD)**	1
17	247951	SOLENOID COIL 12V 2SP PARKER **(PARKER)** **(BLACK SQUARE BODY, DUETSCH CONNECTOR MOUNTED TO SOLENOID BODY)**	1
18	201642	SOLENOID CARTRIDGE VALVE 2SP **(EATON, SILVER BODY)**	1
18	247947	SOLENOID CARTRIDGE VALVE 2SP **(PARKER, BLACK BODY)**	1
19	201643	OVERCENTER VALVE **(EATON, SILVER BODY)**	1
19	247948	OVERCENTER VALVE **(PARKER, BLACK BODY)**	1
20	201644	O-RING **(EATON)**	2
20	247949	O-RING **(PARKER)**	2
21	201645	O-RING **(EATON)**	2
21	247950	O-RING **(PARKER)**	2
22	201650	SET SCREW 3/8"X1/5" HEX SOCKET **(NOT SHOWN)**	2
23	225976	MANUAL FREESPOOL CLUTCH WARN **(END CAP, MANUAL FREE SPOOL CLUTCH)**	1

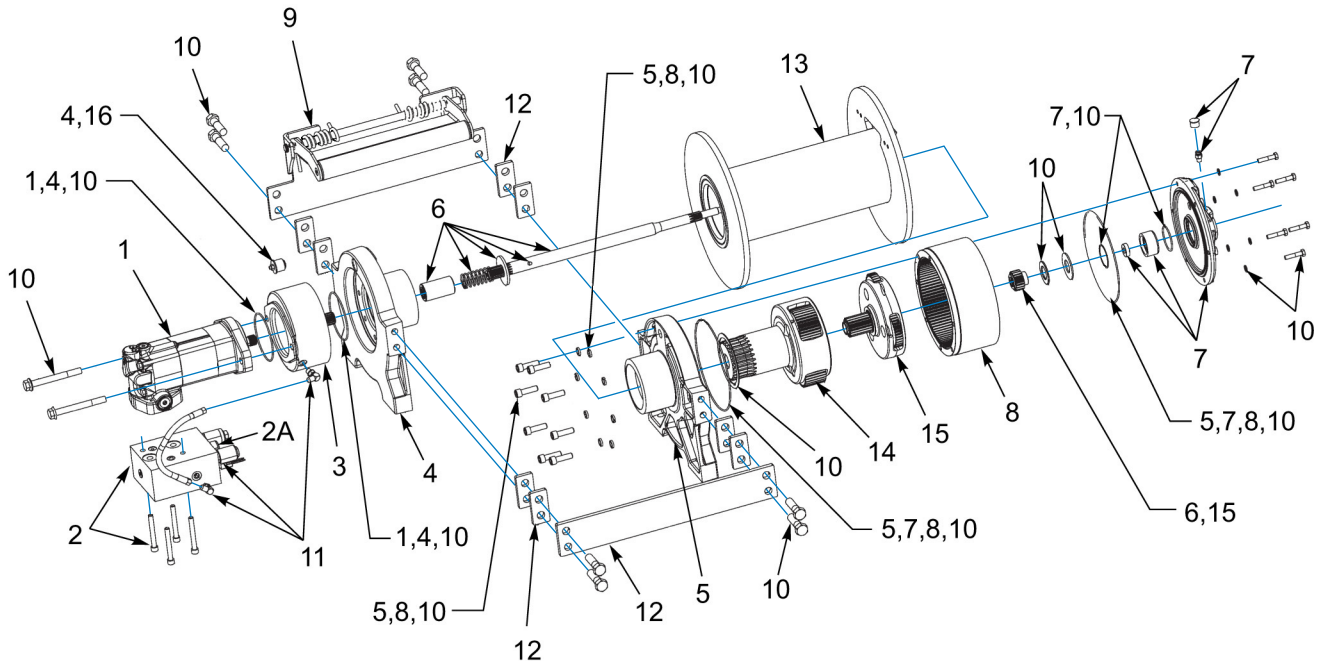


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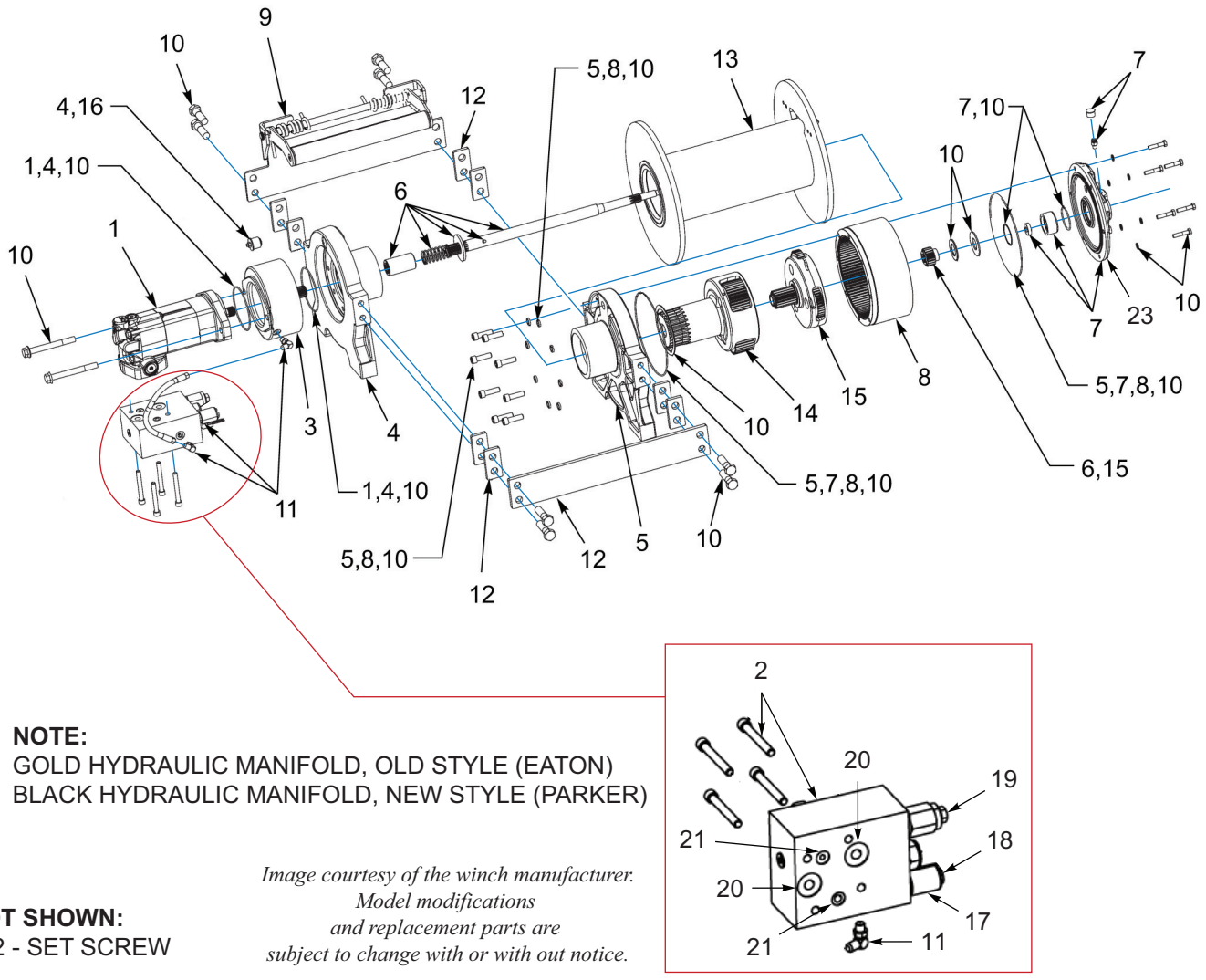
Figure 1-119: Winch Components, Warn 30K, 1 Speed, Air Kick Out

Winch Components, Warn 30K, 1 Speed, Air Kick Out

ITEM	PART NO.	DESCRIPTION	QTY.
	155410	WINCH, 30K WARN AIR KICKOUT	1
1	162940	SERVICE KIT - MOTOR HYDRAULIC 14.9CI	1
2	161590	SERVICE KIT - MANIFOLD HYDRAULIC	1
3	162207	SERVICE KIT - BRAKE ASSEMBLY	1
4	162209	SERVICE KIT - DRUM SUPPORT, MOTOR END	1
5	162210	SERVICE KIT - DRUM SUPPORT, GEAR END	1
6	162211	SERVICE KIT - DRIVE SHAFT, LONG	1
7	162941	SERVICE KIT - END HSG ASSY AIR	1
8	162215	SERVICE KIT - RING GEAR	1
9	162216	SERVICE KIT - TENSIONER LONG	1
10	162217	SERVICE KIT - HARDWARE SEAL	1
11	162218	SERVICE KIT - HOSE HYDRAULIC	1
12	162219	SERVICE KIT - TIE PLATE LONG	1
13	162942	SERVICE KIT - DRUM ASSEMBLY 30K LONG	1
14	162943	SERVICE KIT - CARRIER, STAGE 2 6.0-6.0	1
15	162944	SERVICE KIT - CARRIER, STAGE 1 6.0-6.0	1
16	162945	WIRE ROPE ASSEMBLY 5/8 EIPS X 245 FT **(NOT SHOWN)**	1
17	201650	SET SCREW	2

Table provided for general use.

NOTES:



NOTE:
GOLD HYDRAULIC MANIFOLD, OLD STYLE (EATON)
BLACK HYDRAULIC MANIFOLD, NEW STYLE (PARKER)

NOT SHOWN:
#22 - SET SCREW

Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 1-120: Winch Components, Warn 30K, 2 Speed

Winch Components, Warn 30K, 2 Speed

ITEM	PART NUMBER	DESCRIPTION	QTY
	172877	WINCH 30K WARN 2 SPD AIR	1
1	178714	SVC KIT-MOTOR-HYD	1
2	161590	SVC KIT-MANIFOLD-HYD **(EATON, GOLD BODY)**	1
2	178715	SVC KIT-MANIFOLD-HYD **(PARKER, BLACK BODY)**	1
3	162207	SVC KIT - BRAKE ASSEMBLY	1
4	178716	SVC KIT-DRUM SPRT MTR END RET	1
5	162210	SVC KIT-DRUM SPRT GEAR END N	1
6	162211	SVC KIT-DRIVE SHAFT LONG N	1
7	162941	SVC KIT - END HSG ASSY - AIR	1
8	162215	SVC KIT-RING GEAR	1
9	162216	SVC KIT-TENSIONER	1
10	162217	SVC KIT-HARDWARE SEAL	1
11	162218	SVC KIT-HOSE HYD	1
12	162219	SVC KIT-TIE PLATE LONG	1
13	162942	SVC KIT - DRUM ASSY 30K LONG	1
14	162943	SVC KIT-CARRIER STG2-6.0-6.0N	1
15	162944	SVC KIT-CARRIER STG1-6.0-6.0N	1
16	178717	SVC KIT-EXPANSION PLUG 1" RBR	1
17	199104	SOLENOID COIL 12V 2SP WARN **(EATON)** **(SILVER ROUND BODY, DUETSCH CONNECTOR ON A LEAD)**	1
17	247951	SOLENOID COIL 12V 2SP PARKER **(PARKER)** **(BLACK SQUARE BODY, DUETSCH CONNECTOR MOUNTED TO SOLENOID BODY)**	1
18	201642	SOLENOID CARTRIDGE VALVE 2SP **(EATON, SILVER BODY)**	1
18	247947	SOLENOID CARTRIDGE VALVE 2SP **(PARKER, BLACK BODY)**	1
19	201643	OVERCENTER VALVE **(EATON, SILVER BODY)**	1
19	247948	OVERCENTER VALVE **(PARKER, BLACK BODY)**	1
20	201644	O-RING **(EATON)**	2
20	247949	O-RING **(PARKER)**	2
21	201645	O-RING **(EATON)**	2
21	247950	O-RING **(PARKER)**	2
22	201650	SET SCREW 3/8"X1/5" HEX SOCKET **(NOT SHOWN)**	2
23	225976	MANUAL FREESPOOL CLUTCH WARN **(END CAP, MANUAL FREE SPOOL CLUTCH)**	1

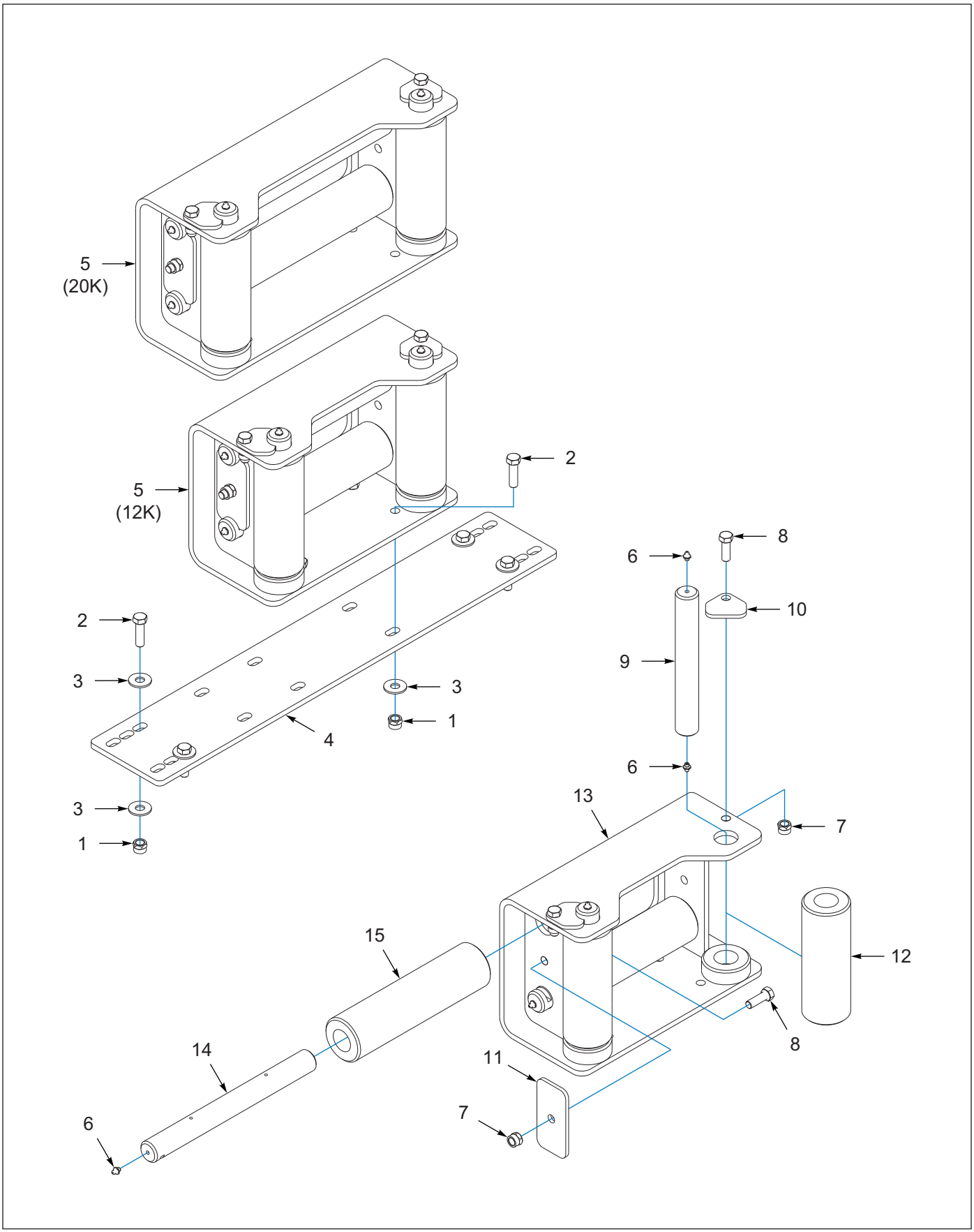


Figure 1-121: Cable Guide, 4-Roller, Braden 12K / 20K (OPTIONS)

Cable Guide, 4-Roller, Braden 12K / 20K (OPTIONS)

ITEM	PART NO.	DESCRIPTION	QTY.
	161155	GUIDE INSTL 4 ROLLER 12K BR **(12K)**	- -
	145589	GUIDE INSTL 4 ROLLER 20K BR **(20K)**	- -
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
2	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
3	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	12
4	145588	PLATE ROLLER GUIDE MT 400	1
5	161150	GUIDE ASSY WINCH 12K BRADEN **(12K)** **(INCLUDES ITEMS 6-15)**	1
5	3-352-010067-2	GUIDE ASSY 20K WINCH **(20K)** **(INCLUDES ITEMS 6-15)**	1
6	1-298-010001-1	ZERK FITTING 1/4 SAE **(110-4954)**	6
7	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	3
8	1-654-010055-03	SCREW, HEX CAP,1/2-13UNCX1-1/2	3
9	3-557-010543	PIN,VERT ROLLER 20K GUIDE	2
10	3-565-011792	PLATE GUIDE LOCK TOP	2
11	3-565-011793	PLATE GUIDE LOCK SIDE	1
12	3-645-010087	ROLLER VERT 20K WINCH GUIDE	2
13	161151	BRACKET WLDMT 12K WINCH GUIDE **(12K)**	1
13	3-120-010494	BRACKET WLDMT 20K WINCH GUIDE **(20K)**	1
14	161153	PIN, HORIZ ROLLER 12K GUIDE **(12K)**	2
14	3-557-010544	PIN, HORIZ ROLLER 20K GUIDE **(20K)**	2
15	161154	ROLLER,HORIZ 12K WINCH GUIDE **(12K)**	2
15	3-645-010088	ROLLER,HORIZ 20K WINCH GUIDE **(20K)**	2

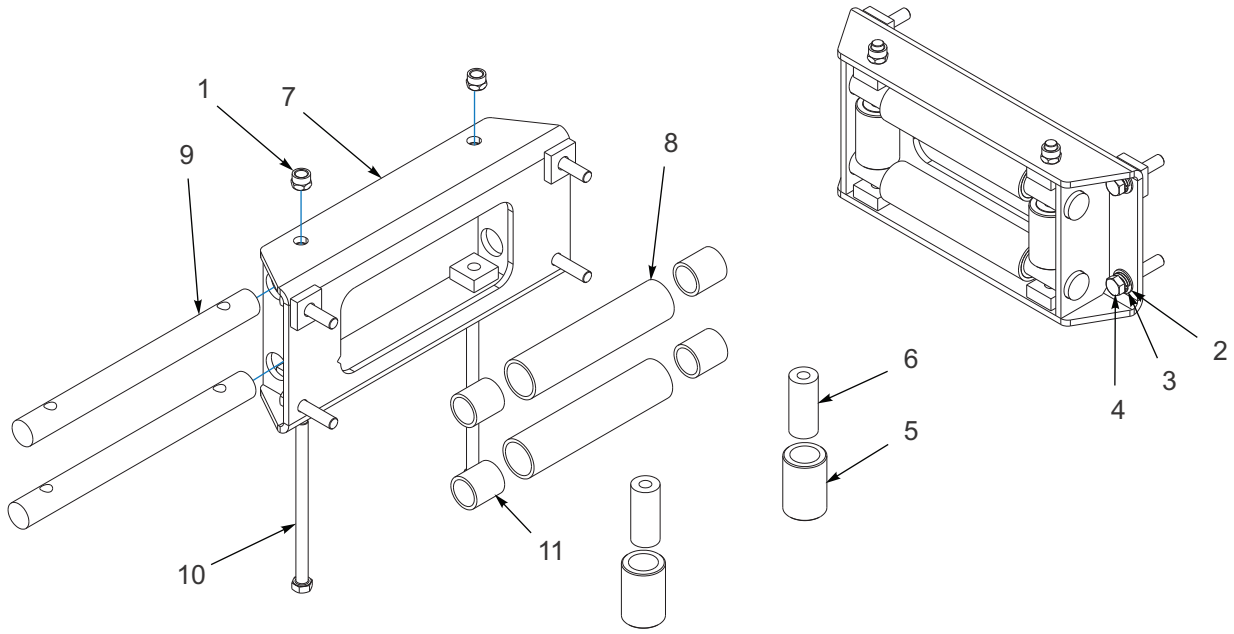


Figure 1-122: Cable Guide, 4-Roller, DP 30K (OPTION)

Cable Guide, 4-Roller, DP 30K (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	122333	WINCH ROLLER GUIDE - 30K PLNTY DP	- -
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
2	1-861-010032-18	WASHER, FLAT 5/8N	4
3	1-861-010034-15	WASHER, SPLIT LOCK 5/8	4
4	1-654-010059-09	SCREW, HEX HEAD CAP 5/8-11 X 3 GR5	4
5	111385	TUBE VERTICAL ROLLER FAIRLEAD	2
6	111386	BUSHING FAIRLEAD VERT ROLLER	2
7	122334	MOUNT WELDMENT	1
8	122336	TUBE, HORIZONTAL ROLLER	2
9	122337	ROD, ROLLER	2
10	122458	SCREW, HEX HEAD CAP 5/8-11 X 10 GR8	2
11	AA-1807	SLEEVE, BEARING 1-1/2D X 1-7/8OD X 2	4

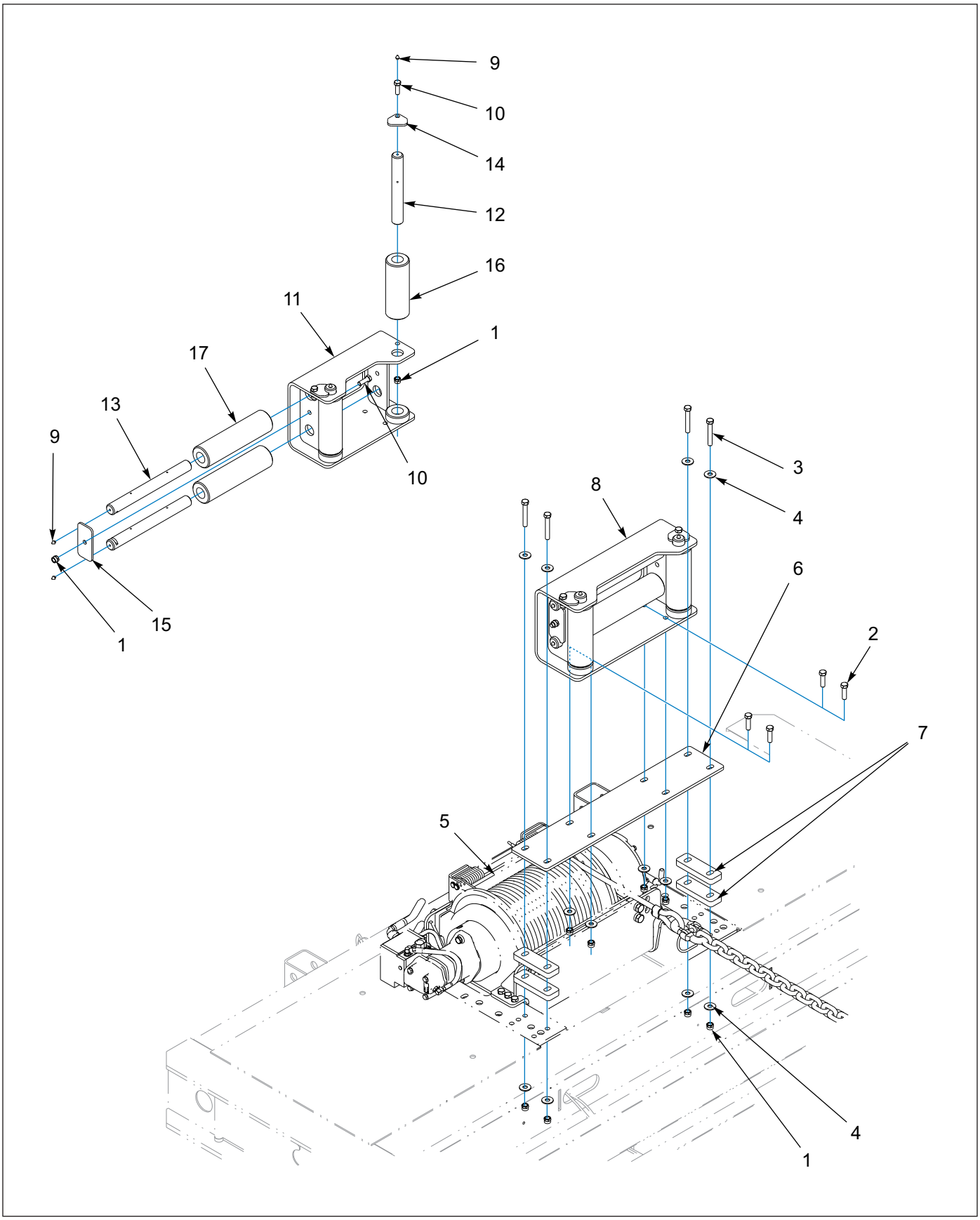


Figure 1-123: Cable Guide, 4-Roller, Warn 20K / 30K

Cable Guide, 4-Roller, Warn 20K / 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	162258	4 ROLLER GUIDE INSTALLATION	- -
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
2	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	12
5	151818	WINCH INSTALLATION, 20K WARN **(SEE PAGE 1-123)**	REF
5	155411	WINCH INSTALLATION, 30K WARN **(SEE PAGE 1-133)**	REF
6	162259	PLATE, ROLLER GUIDE	1
7	162260	PLATE, ROLLER SPACER	4
8	3-352-010067-2	GUIDE ASSEMBLY, WINCH **(INCLUDES ITEMS 1, 9-17)**	1
9	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
10	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	3
11	3-120-010494	BRACKET WELDMENT, 20K WINCH GUIDE	1
12	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
13	3-557-010544	PIN, HORIZONTAL ROLLER 20K GUIDE	2
14	3-565-011792	PLATE, GUIDE LOCK TOP	2
15	3-565-011793	PLATE, GUIDE LOCK SIDE	1
16	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2
17	3-645-010088	ROLLER, HORIZONTAL 20K WINCH GUIDE	2

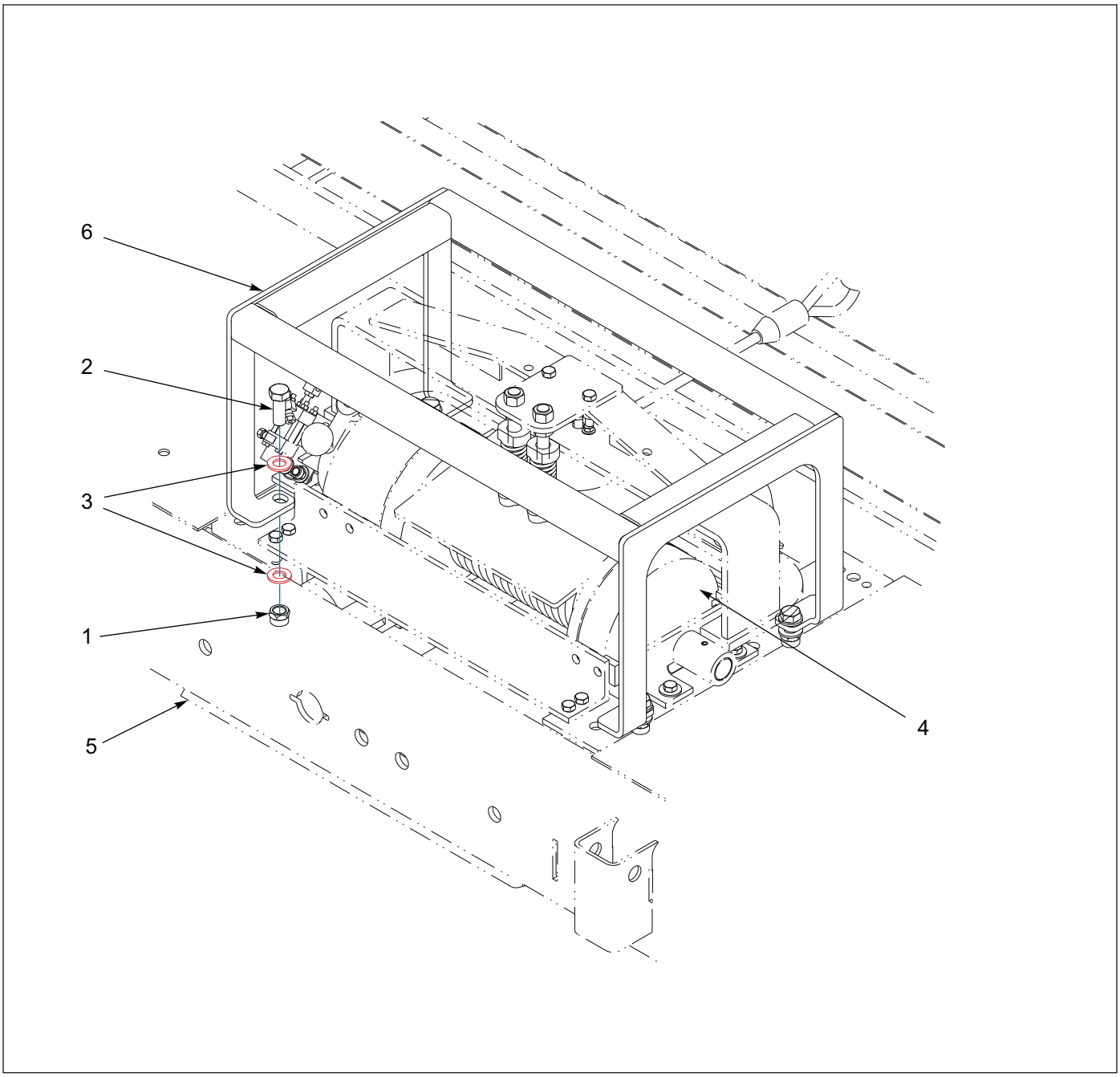


Figure 1-124: Guard, 20K Pivot Winch

Guard, 20K Pivot Winch

ITEM	PART NO.	DESCRIPTION	QTY.
	163769	WINCH GUARD INSTALLATION, 20K PIVOT	- -
1	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
2	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
3	1-861-010032-20	WASHER, FLAT, 3/4N	8
4	- - - - -	WINCH ASSEMBLY, 20K GUIDE AIR TEN/REL	REF
5	- - - - -	GOOSENECK WELDMENT	REF
6	163770	GUARD WELDMENT, WINCH 20K PIVOT	1

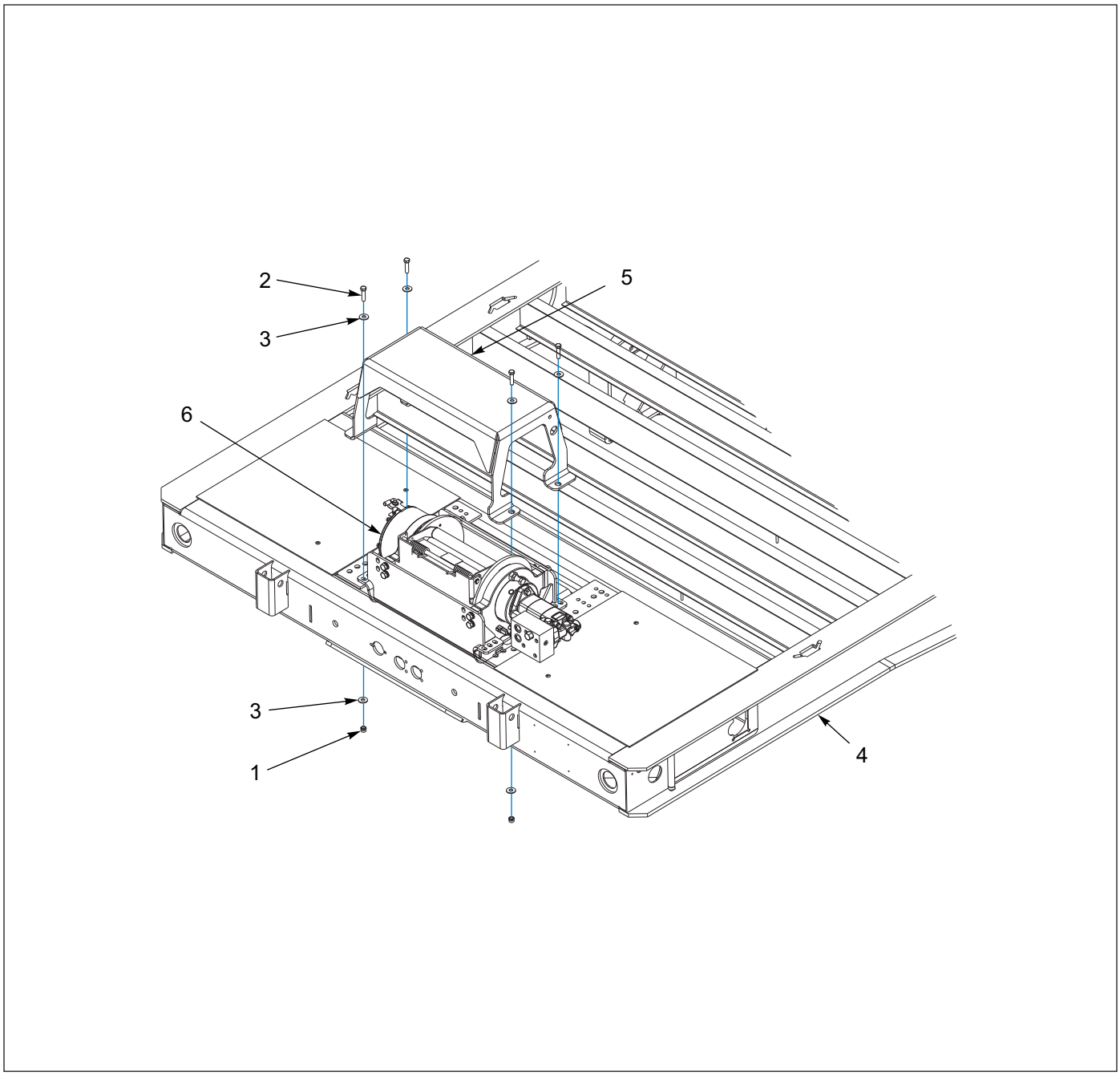


Figure 1-125: Guard, Warn 20K / 30K

Guard, Warn 20K / 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	171166	WINCH GUARD INSTALLATION FOR 20K/30K WARN WINCH	- -
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
3	1-861-010032-15	WASHER, FLAT 1/2W	6
4	- - - - -	FRAME WELDMENT	REF
5	171167	GUARD WINCH 20K/30K WARN	1
6	- - - - -	WINCH ASSEMBLY, WARN	REF

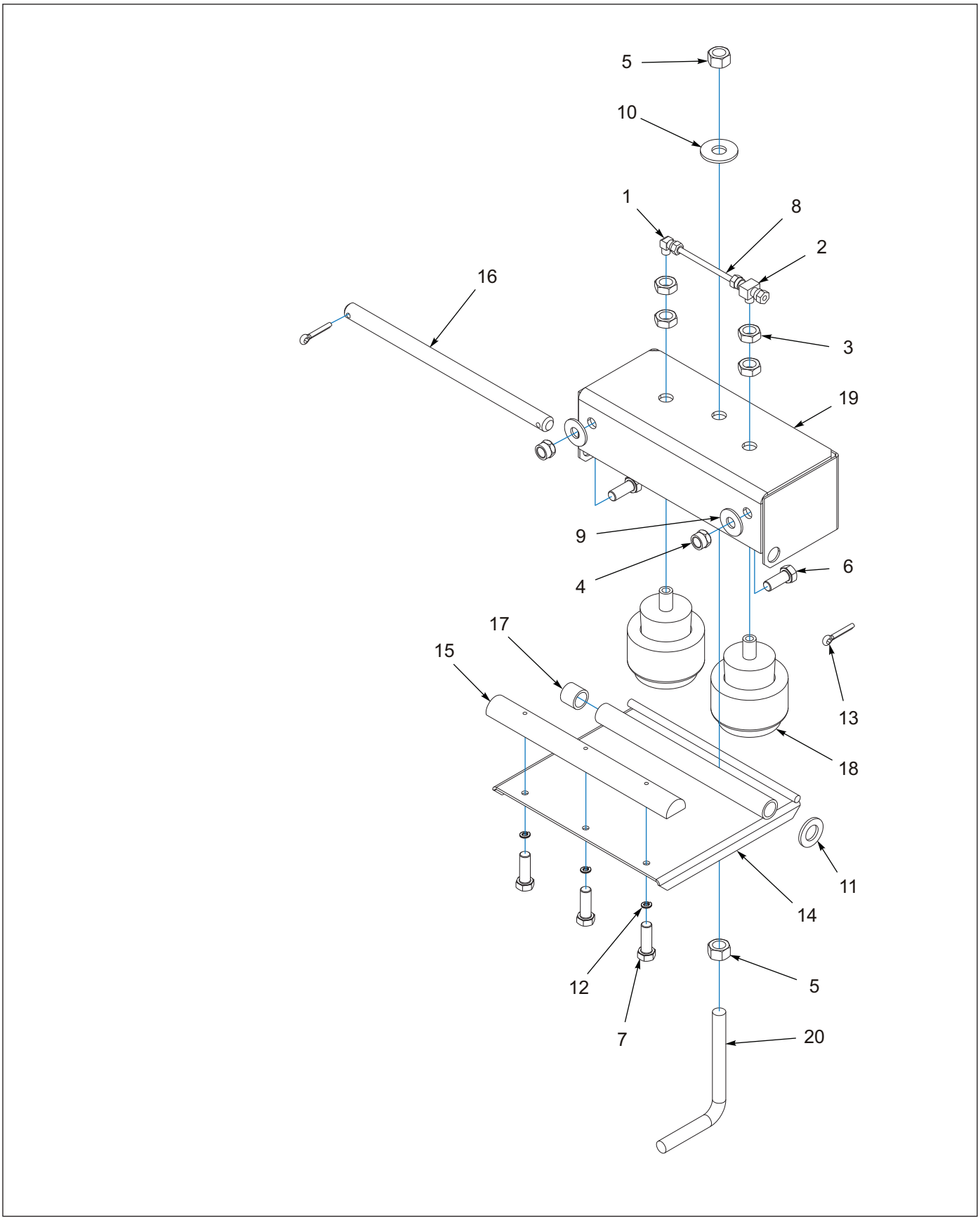


Figure 1-126: Tensioner, Air, DP 30K

Tensioner, Air, DP 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010172	WINCH CABLE AIR TENSION 30K	- -
1	1-297-010008-05	FITTING, AIR 90	1
2	1-297-010015-02	FITTING, AIR TEE	1
3	1-511-010001-07	NUT, HEX JAM 5/8-11	4
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
5	1-512-010007-11	NUT, HEX 5/8-11 GRB	2
6	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	2
7	1-654-010047-04	SCREW, HEX HEAD CAP 1/4/20 X 3/4 GR5	3
8	1-833-010001	TUBING, NYLON 1/4OD	1
9	1-861-010032-15	WASHER, FLAT 1/2W	2
10	1-861-010032-19	WASHER, FLAT 5/8W	1
11	1-861-010032-20	WASHER, FLAT 3/4N	1
12	1-861-010034-09	WASHER, SPLIT LOCK 1/4	3
13	119084	PIN, COTTER 1/4 X 1-1/2	2
14	132103	ARM WELDMENT, LEVEL WIND	1
15	132104	RUB BAR	1
16	133938	PIVOT PIN	1
17	133941	SPACER	1
18	137028	AIR SPRING 30K WINCH TENSION	2
19	160094	MOUNTING BRACKET, LEVEL WIND	1
20	161573	ADJUSTMENT BOLT LEVEL WIND	1

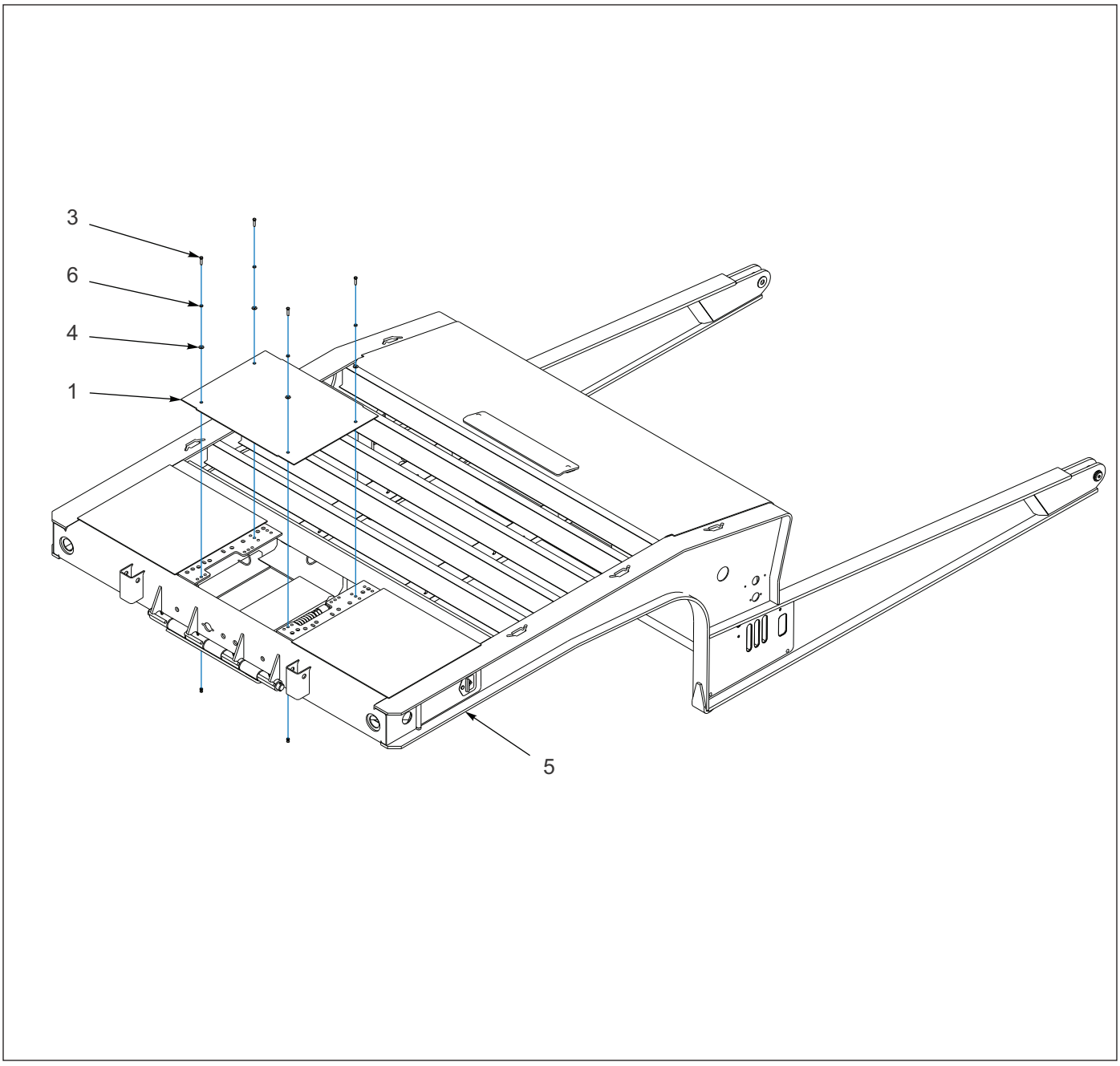


Figure 1-127: Upper Deck Cover Plate

Upper Deck Cover Plate

ITEM	PART NO.	DESCRIPTION	QTY.
	137635	COVER ASSEMBLY, UPPER DECK	- -
1	137634	COVER, UPPER DECK	1
2	139254	NUTSERT, 3/8-16 **(NOT SHOWN)**	4
3	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
4	1-861-010032-11	WASHER, FLAT 3/8W	4
5	130552	FRAME ASSEMBLY, GOOSENECK	REF
6	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
7	1-007-010025	PLUG, O-RING BOSS 3/4-16 **(NOT SHOWN)**	1

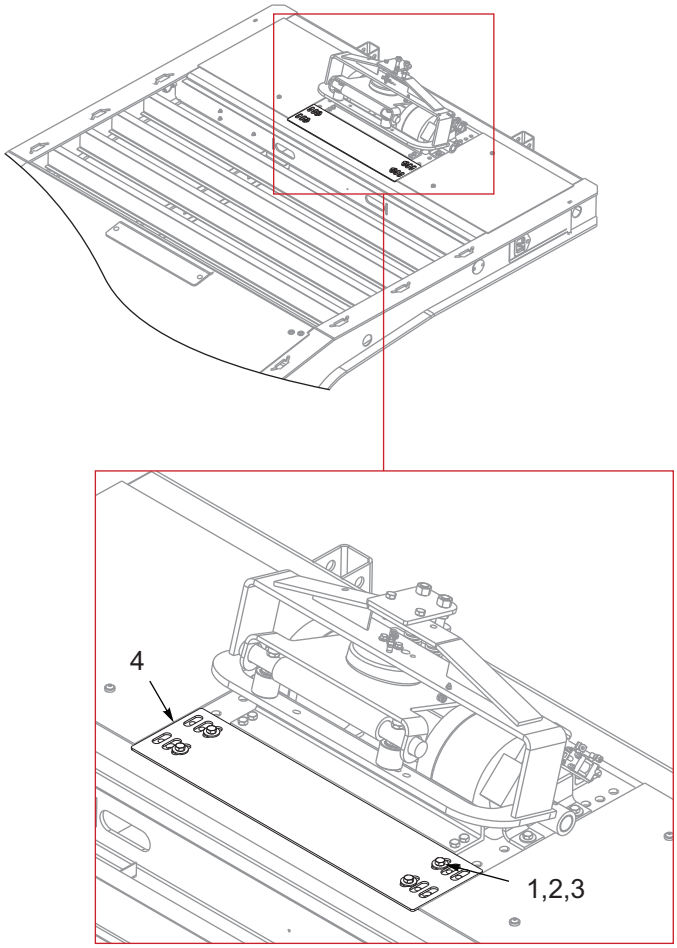


Figure 1-128: Winch Trim Plate Installation

Winch Trim Plate Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	166767	WINCH, TRIM PLATE, INSTALL	- -
1	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	4
2	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
3	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
4	204160	PLATE, WINCH TRIM REAR WINCH	1

Pop-Up Roller Options

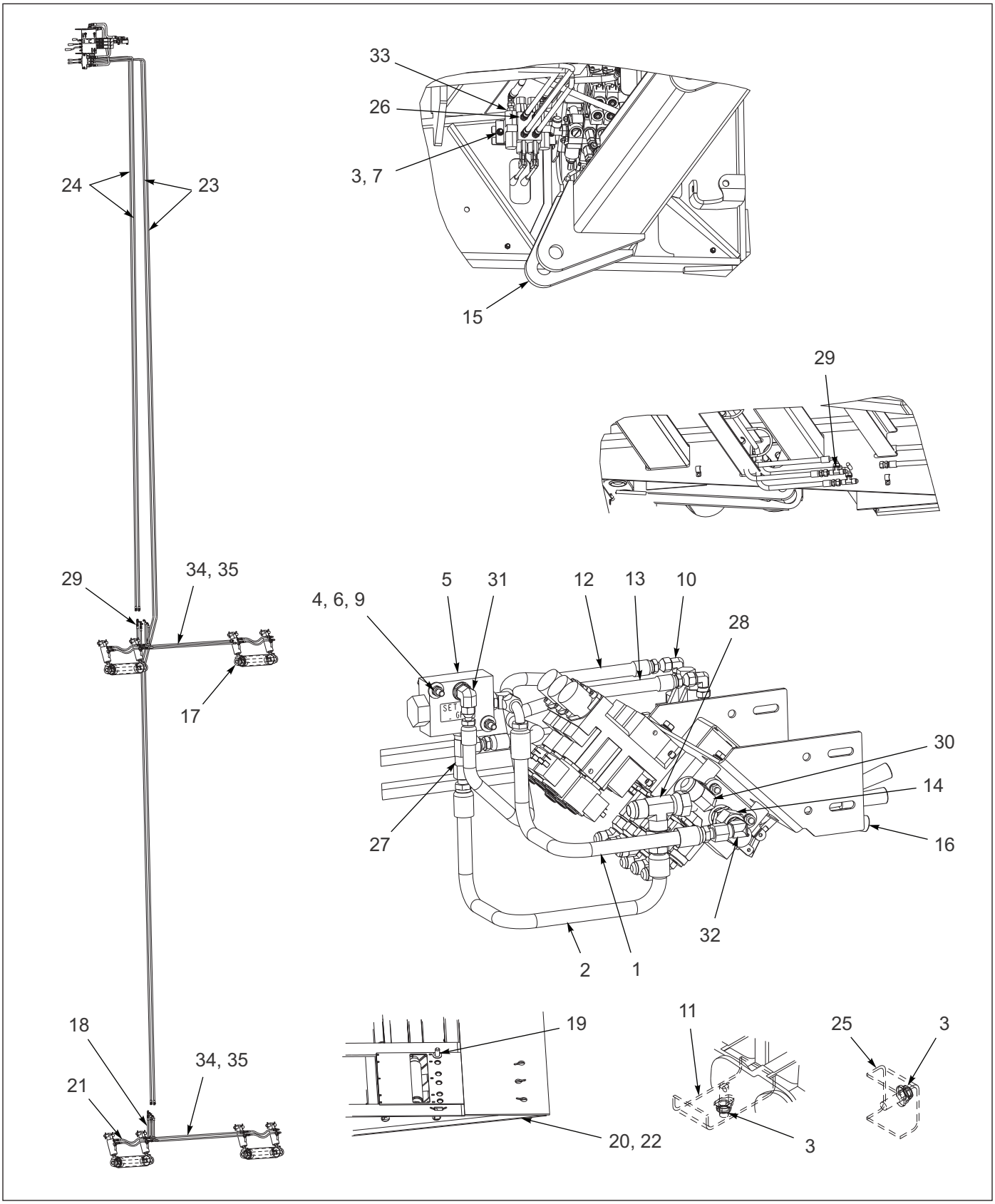
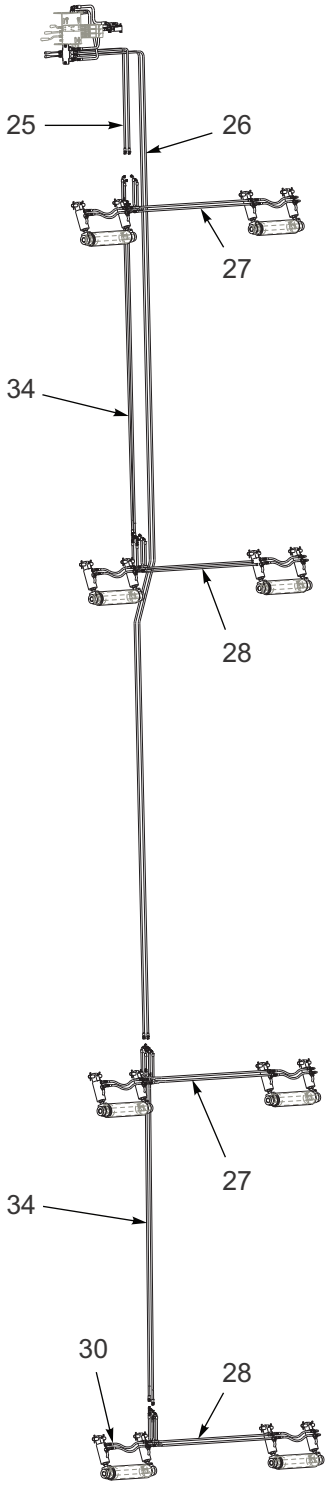
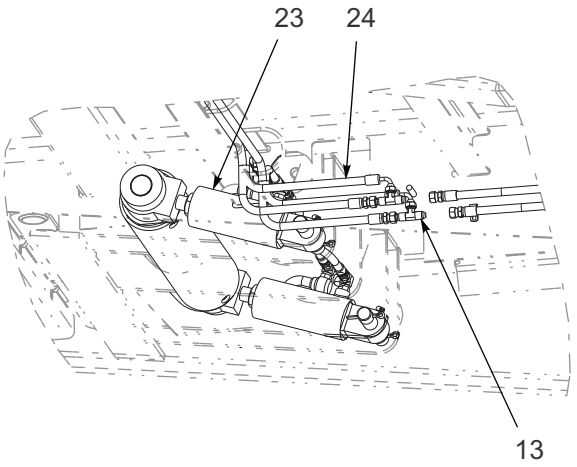


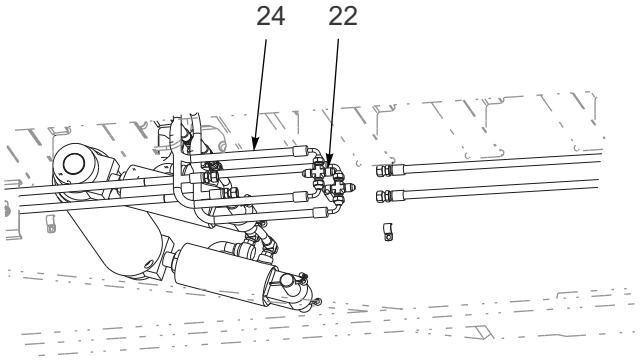
Figure 1-129: 4 Pop-Up Roller Installation

4 Pop-up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY	
	174100	ROLLER INSTALLATION, 4 POP-UP 400-53-120	*	
	174099	ROLLER INSTALLATION, 4 POP-UP 400-53-108		*
1	1-397-010302018	HOSE ASSEMBLY 1/2 X 18	1	1
2	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1	1
3	1-510-010001	NUT, FLANGE LOCK 3/8-16	16	16
4	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2
5	1-626-010002-03	REGULATOR FLOW 1/2 BYPASS ONLY	1	1
6	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2	2
7	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2	2
8	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	14	14
9	1-861-010032-09	WASHER, FLAT 5/16W	4	4
10	102-0031	ADAPTER, 90	2	2
11	103817	CLAMP, HOSE	7	7
12	111302	HOSE ASSEMBLY 3/8 X 24	1	1
13	116429	HOSE ASSEMBLY 3/8 X 25	1	1
14	138179	POWER BEYOND REMOTE	1	1
15	- - - - -	FRAME ASSEMBLY, G/N	REF	REF
16	- - - - -	VALVE ASSEMBLY, 3 SPOOL	REF	REF
17	169845	POP-UP ROLLER ASSEMBLY **(SEE PAGE 1-232)**	4	4
18	169848	HOSE ASSEMBLY 1/4 X 18	4	4
19	169865	PIN WELDMENT, ALIGNMENT PEG	4	4
20	- - - - -	FRAME, MODIFIED 4 ROLLER	- - - - -	REF
21	174265	HOSE, HYDRAULIC 1/4 X 21	8	8
22	- - - - -	FRAME, MOD ROLLER BRAKE	REF	- - - - -
23	176800	HOSE ASSEMBLY 1/4 X 573	2	2
24	176801	HOSE ASSEMBLY 1/4 X 363	2	2
25	2-181-010001	CLAMP	7	7
26	202702-6-6S	ADAPTER STRAIGHT	6	6
27	203005-8-8S	ADAPTER, TEE	1	1
28	203102-12-12S	ADAPTER, TEE	1	1
29	2033-6-6S	ADAPTER, TEE	4	4
30	2062-10-12S	ADAPTER, 90°	REF	REF
31	2062-8-6S	ADAPTER, 90°	1	1
32	2062-8-8S	ADAPTER, 90°	2	2
33	3-846-010056	VALVE, DOUBLE SPOOL STACK**(SEE PAGE 1-246)**, **(PRIOR TO 01/15/2014)**	1	1
33	179649	VALVE, DOUBLE SPOOL **(AFTER 01/15/2015)**	REF	REF
34	71500166	HOSE, HYDRAULIC 1/4 X 52	- -	4
35	71509010	HOSE, HYDRAULIC 1/4 X 64	4	- -







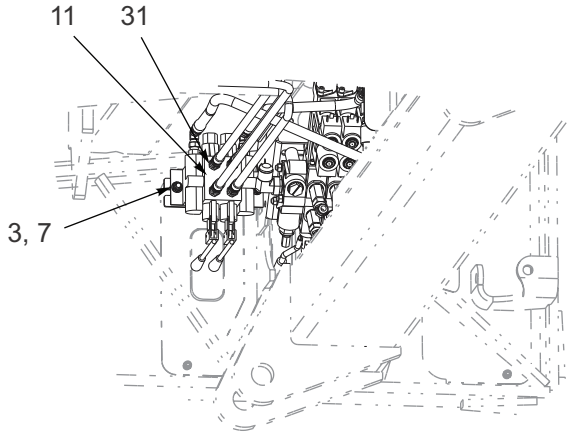


Figure 1-130: 8 Pop-Up Roller Installation (1 of 2)

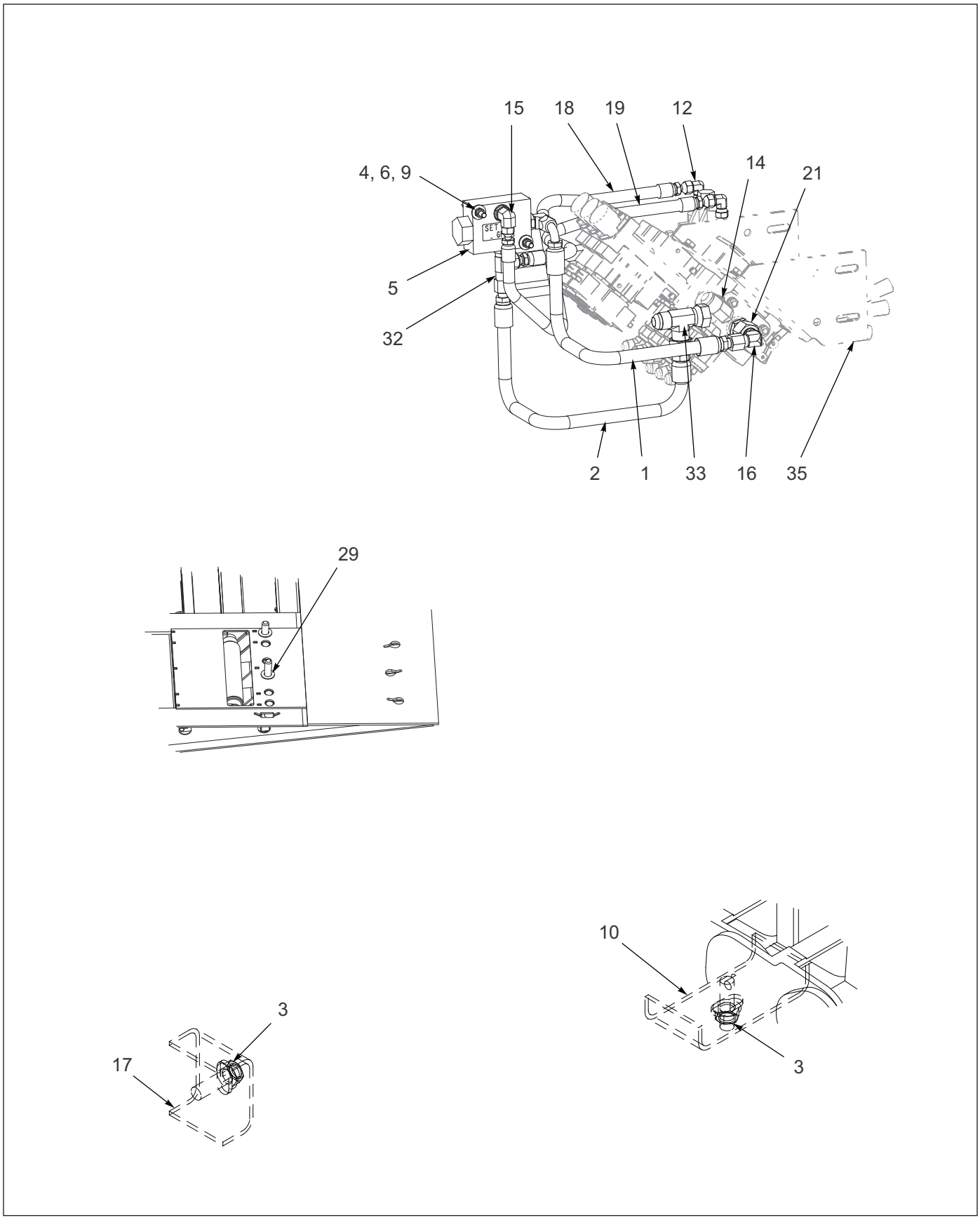


Figure 1-131: 8 Pop-up Roller Installation (2 of 2)

8 Pop-up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.					
	175033	ROLLER INST., 8 POP-UP 400-53-120 **(LG. BRK)**	*					
	175030	ROLLER INST., 8 POP-UP 400-53-108 **(SM. & LG. BRK)**		*				
	175640	ROLLER INST., 8 POP-UP 400-53-102 **(SM. BRK)**			*			
	178342	ROLLER INST., 8 POP-UP 400-50CA-102 **(SM. BRK)**				*		
	178401	ROLLER INST., 8 POP-UP 400-53-120 **(SM. BRK)**					*	
	179606	ROLLER INST., 8 POP-UP 400-53-102 **(LG. BRK)**						*
1	1-397-010302018	HOSE ASSEMBLY 1/2 X 18	1	1	1	1	1	1
2	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1	1	1	1	1	1
3	1-510-010001	NUT, FLANGE LOCK 3/8-16	16	16	16	16	16	16
4	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2	2	2	2	2
5	1-626-010002-03	REGULATOR FLOW 1/2 BYPASS ONLY	1	1	1	1	1	1
6	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2	2	2	2	2	2
7	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2	2	2	2	2	2
8	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	14	14	14	14	14	14
9	1-861-010032-09	WASHER, FLAT 5/16W	4	4	4	4	4	4
10	3-181-010006	HOSE CLAMP	4	4	4	4	4	4
11	3-846-010056	VALVE, DOUBLE SPOOL STACK **(PRIOR TO 01/15/2014)**	1	1	1	1	1	1
11	179649	VALVE, DOUBLE SPOOL **(AFTER 01/15/2014)**						
12	102-0031	ADAPTER, 90	2	2	2	2	2	2
13	2033-6-6S	ADAPTER, TEE	4	4	4	4	4	4
14	2062-10-12S	ADAPTER, 90	REF	REF	REF	REF	REF	REF
15	2062-8-6S	ADAPTER, 90°	1	1	1	1	1	1
16	2062-8-8S	ADAPTER, 90°	2	2	2	2	2	2
17	103817	CLAMP, HOSE	10	10	10	10	10	10
18	111302	HOSE ASSEMBLY 3/8 X 24	1	1	1	1	1	1
19	116429	HOSE ASSEMBLY 3/8 X 25	1	1	1	1	1	1
21	138179	POWER BEYOND REMOTE	1	1	1	1	1	1
22	149012	ADAPTER, CROSS	4	4	4	4	4	4
23	169845	POP-UP ROLLER ASSEMBLY **(SEE PAGE 1-232)**	8	8	- -	- -	- -	8
23	175617	POP-UP ROLLER ASSEMBLY **(SEE PAGE 1-232)**	- -	- -	8	8	8	- -
24	169848	HOSE ASSEMBLY 1/4 X 18	8	8	8	8	8	8
25	169849	HOSE ASSEMBLY 1/4 X 144	2	2	2	- -	- -	2
25	125648	HOSE ASSEMBLY 1/4 X 108	- -	- -	- -	2	- -	- -
26	174266	HOSE ASSEMBLY, 1/4 X 446	2	2	2	- -	- -	2
26	169852	HOSE ASSEMBLY 1/4 X 416	- -	- -	- -	2	2	- -
27	174267	HOSE ASSEMBLY, 1/4 X 64	4	- -	- -	- -	- -	- -
27	175029	HOSE ASSEMBLY, 1/4 X 52	- -	4	4	4	- -	4
27	149011	HOSE ASSEMBLY, 1/4 X 72	- -	- -	- -	- -	4	- -

8 Pop-up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.					
28	71500166	HOSE, HYDRAULIC 1/4 X 52	- -	4	4	4	- -	4
28	71509010	HOSE, HYDRAULIC 1/4 X 64	4	- -	- -	- -	- -	- -
28	7779-72	HOSE ASSEMBLY, 1/4 X 72	- -	- -	- -	- -	4	- -
29	169865	PIN WELDMENT, ALIGNMENT PEG	4	4	4	4	4	4
30	174265	HOSE, HYDRAULIC 1/4 X 21	16	16	16	16	16	16
31	202702-6-6S	ADAPTER STRAIGHT	6	6	6	6	6	6
32	203005-8-8S	ADAPTER, TEE	1	1	1	1	1	1
33	203102-12-12S	ADAPTER, TEE	1	1	1	1	1	1
34	71600529	HOSE ASSEMBLY, 1/4 X 120	4	4	4	2	4	4
34	149007	HOSE ASSEMBLY 1/4 X 156	- -	- -	- -	2	- -	- -
35	148241	VALVE ASSEMBLY, 3 SPOOL	REF	REF	REF	REF	REF	REF

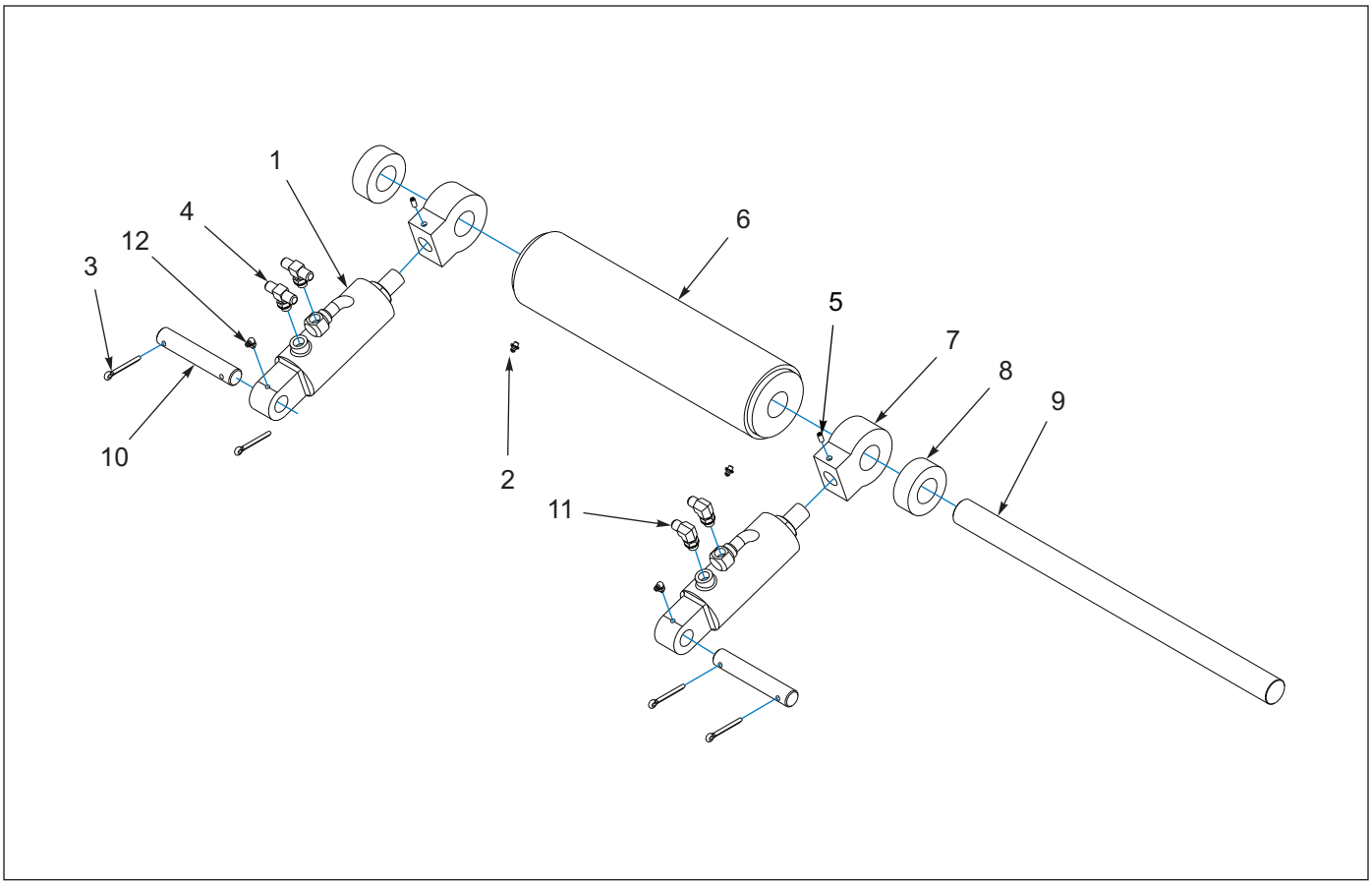


Figure 1-132: Pop-up Roller Installation

Pop-up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.	
	169845	POP-UP ROLLER INSTALLATION	*	
	175617	POP-UP ROLLER INSTALLATION		*
1	0047008	CYLINDER, TILT **(SEE PAGE 1-233)**	2	2
2	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	2	2
3	1-557-010362-63	PIN, COTTER 1/4 X 2	4	4
4	102-1089	ADAPTER, 90	2	2
5	107464	SCREW, SET HEX SOCKET 1/4-28 X 5/8	2	2
6	161809	ROLLER WELDMENT, CABLE-UPPER DECK **(18-3/4")(BEFORE 01/19/2015)**	1	- -
6	175616	ROLLOUT WELDMENT, POP-UP ROLLER **(15-3/4") (BEFORE 1-19-2015)**	- -	1
6	187787	ROLLER WELDMENT, HDPU, 18-3/4 **(AFTER 01/19/2015)**	1	- -
6	187790	ROLLER WELDMENT, HD PU 15-3/4 **(AFTER 1-19-2015)**	- -	1
7	169255	END CYLINDER, ROLLER PIN	2	2
8	169258	ROLLER, TRACK HYDRAULIC DECK ROLLER	2	2
9	169836	SHAFT, ROLLER POP-UP **(24-7/16")**	1	- -
9	175620	SHAFT, ROLLER POP-UP **(21-7/16")**	- -	1
10	2-557-010054	PIN, EXTENDED CYLINDER	2	2
11	2062-6-6S	ADAPTER, 90	2	2
12	5410	FITTING, GREASE 1/4-28 90	2	2

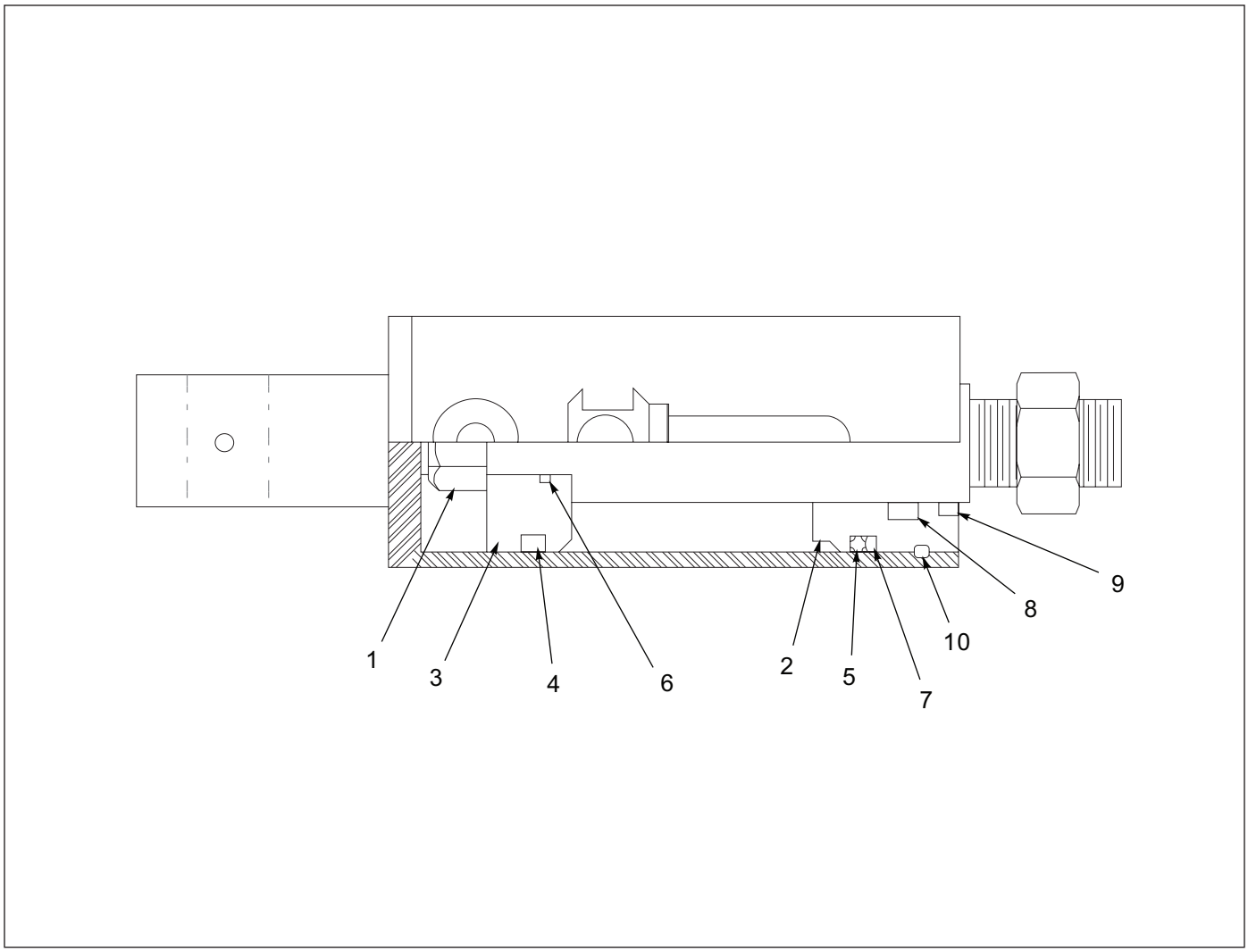


Figure 1-133: Tilt Cylinder

Tilt Cylinder

ITEM	PART NO.	DESCRIPTION	QTY.
	0047008	CYLINDER, TILT	- -
1	0047008-01	NUT	1
2	0047008-02	HEAD	1
3	0047008-03	PISTON	1
4	- - - - -	PSP SEAL	1
5	- - - - -	O-RING	1
6	- - - - -	O-RING	1
7	- - - - -	BACKUPS	1
8	- - - - -	POLY-PAK	1
9	- - - - -	DUST SEAL	1
10	0047008-10	RETAINING RING	1
11	0047008-11	SHAFT	1
12	0047008-12	BARREL WITH CLEVIS AND PORTS	1
13	0047008-13	NUT	1
14	0047008/RK	REPAIR KIT **(NOT SHOWN, ITEMS 4-9)**	1

Dock Leveler Options

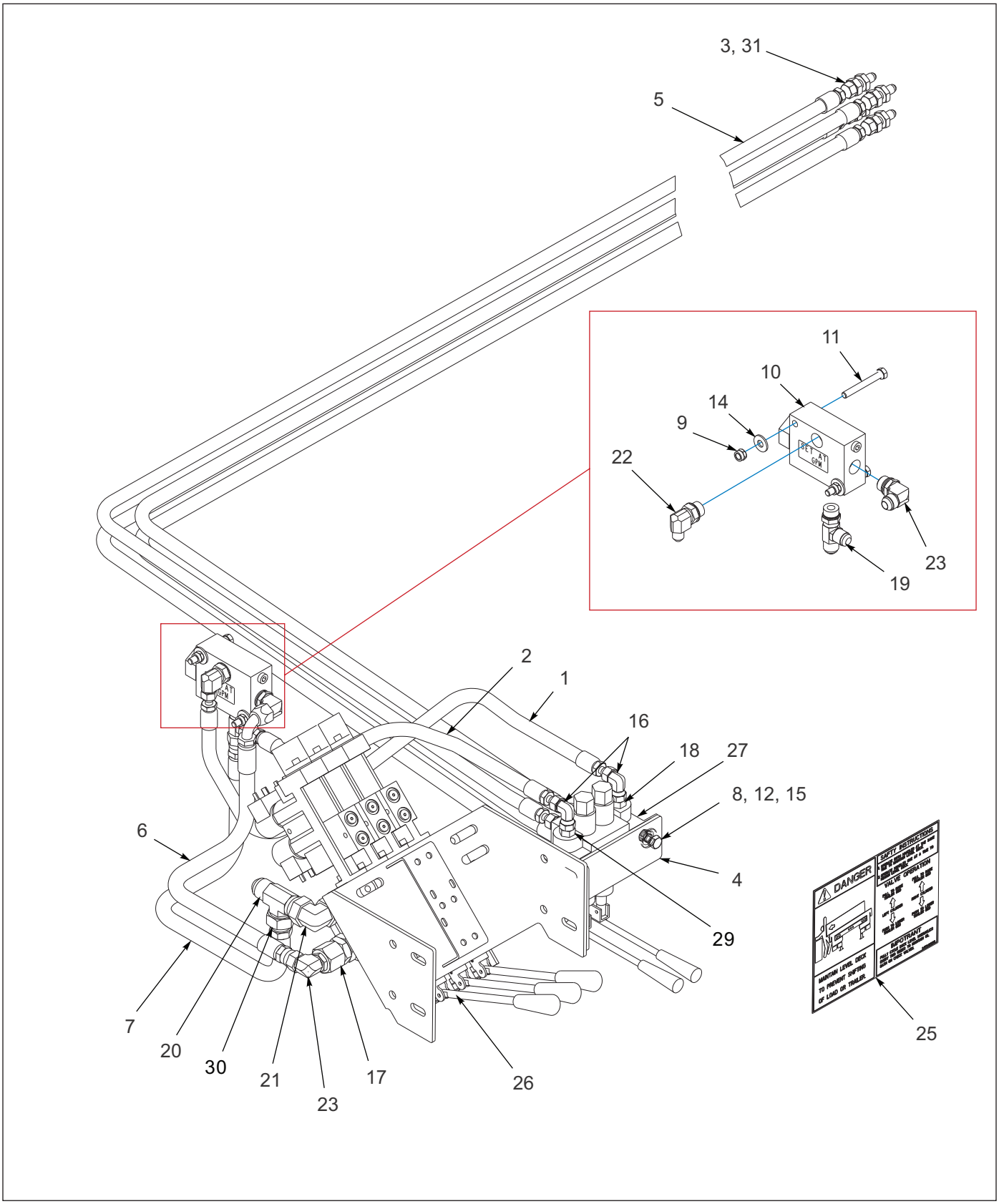


Figure 1-134: Dock Leveler Hydraulic Installation

Dock Leveler Hydraulic Installation

ITEM	PART NO.	DESCRIPTION	QTY.								
	122538	DOCK LEVELER HYDRAULIC INST 455-50	*								
	122812	DOCK LEVELER HYDRAULIC INST 455-48		*							
	126641	DOCK LEVELER HYDRAULIC INST 455-53			*						
	129099	DOCK LEVELER HYDRAULIC INST 425-45				*					
	131726	DOCK LEVELER HYDRAULIC INST 120K 455-48					*				
	141638	DOCK LEVELER HYDRAULIC INST 120K 455-50						*			
	141639	DOCK LEVELER HYDRAULIC INST 120K 455-53							*		
	170454	DOCK LEVELER HYDRAULIC INST 455-41								*	
	172851	DOCK LEVELER HYDRAULIC INST 455-53 ARCTIC									*
1	111302	HOSE ASSEMBLY 3/8 X 24	1	1	1	1	1	1	1	1	- -
1	169626	HOSE ASSEMBLY 3/8 X 24 ARCTIC	- -	- -	- -	- -	- -	- -	- -	- -	1
2	116429	HOSE ASSEMBLY 3/8 X 25	1	1	1	1	1	1	1	1	- -
2	169624	HOSE ASSEMBLY 3/8 X 25 ARCTIC	- -	- -	- -	- -	- -	- -	- -	- -	1
3	102-1097	37 FLARE BULKHEAD/ 37 FLARE	4	4	4	4	4	4	4	4	4
4	121124	BRACKET, VALVE DOCK LEVEL CONTROL	1	1	1	1	1	1	1	1	1
5	1-397-010307356	HOSE ASSEMBLY 3/8 X 356	4	- -	- -	- -	- -	4	- -	- -	- -
5	122813	HOSE ASSEMBLY 3/8 X 332	- -	4	- -	- -	4	- -	- -	- -	- -
5	126736	HOSE ASSEMBLY 3/8 X 392	- -	- -	4	- -	- -	- -	4	- -	- -
5	1-397-010307296	HOSE ASSEMBLY 3/8 X 296	- -	- -	- -	4	- -	- -	- -	- -	- -
5	103166	HOSE ASSEMBLY 3/8 X 252	- -	- -	- -	- -	- -	- -	- -	4	- -
5	172852	HOSE ASSEMBLY 3/8 X 392 ARCTIC	- -	- -	- -	- -	- -	- -	- -	- -	4
6	1-397-010302018	HOSE ASSEMBLY 1/2 X 18	1	1	1	1	1	1	1	1	- -
6	169620	HOSE ASSEMBLY 1/2 X 18 ARCTIC	- -	- -	- -	- -	- -	- -	- -	- -	1
7	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1	1	1	1	1	1	1	1	- -
7	172862	HOSE ASSEMBLY 1/2 X 28 ARCTIC	- -	- -	- -	- -	- -	- -	- -	- -	1
8	1-510-010001	NUT, FLANGE LOCK 3/8-16	2	2	2	2	2	2	2	2	2
9	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2	2	2	2	2	2	2	2
10	1-626-010002-03	REGULATOR FLOW 1/2 **(BYPASS ONLY)**	1	1	1	1	- -	- -	- -	1	1
10	1-626-010002-06	REGULATOR, FLOW 1-1/2-6	- -	- -	- -	- -	1	1	1	- -	- -
11	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2	2	2	2	2	2	2	2	2
12	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2	2	2	2	2	2	2	2	2
13	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	AR	AR	AR	AR	AR	AR	AR	AR	AR
14	1-861-010032-09	WASHER, FLAT 5/16W	2	2	2	2	2	2	2	2	2
15	1-861-010032-11	WASHER, FLAT 3/8W	2	2	2	2	2	2	2	2	2
16	102-0031	ADAPTER, 90	2	2	2	2	2	2	2	2	2

Dock Leveler Hydraulic Installation

ITEM	PART NO.	DESCRIPTION	QTY.								
17	138179	POWER BEYOND REMOTE	1	1	1	1	- -	- -	- -	- -	- -
17	1V0208	POWER BEYOND REMOTE **(CROSS VALVE)**	- -	- -	- -	- -	1	1	- -	- -	- -
18	202702-6-6S	ADAPTER, STRAIGHT	6	6	6	6	6	6	6	6	6
19	203005-8-8S	ADAPTER, TEE	1	1	1	1	1	1	1	1	1
20	203102-12-12S	ADAPTER TEE	1	1	1	1	1	1	1	1	1
21	2062-10-12S	ADAPTER, 90							REF		
22	2062-8-6S	ADAPTER, 90°	1	1	1	1	1	1	1	1	1
23	2062-8-8S	ADAPTER, 90°	2	2	2	2	2	2	2	2	2
24	3-201-010002	CONDUIT FLEX PLASTIC 3/8 **(NOT SHOWN)**	3	3	3	3	3	3	3	3	3
25	3-573-010202	DECAL, DANGER OP D/L **(REAR)** **(SEE PAGE 1-5)**	1	1	1	1	1	1	1	1	1
26	- - - - -	VALVE, 3 SPOOL 2500 PSI							REF		
27	3-846-010056	VALVE, DOUBLE SPOOL STACK **(SEE PAGE 1-218)** **(BEFORE 1/15/2014)**	1	1	1	1	1	1	1	1	1
27	179649	VALVE, DOUBLE SPOOL **(AFTER 01/15/2014)**	1	1	1	1	1	1	1	1	1
28	2024-12-8S	ELBOW, 90 **(NOT SHOWN)**	- -	- -	- -	- -	1	1	- -	- -	- -
29	202702-6-8S	ADAPTER	- -	- -	- -	- -	- -	- -	- -	- -	1
30	102-1112	REDUCER	- -	- -	- -	- -	- -	- -	- -	- -	1
31	0018127	FITTING, BULKHEAD UNION SS	- -	- -	- -	- -	- -	- -	- -	- -	4

Table provided for general use.

NOTES:

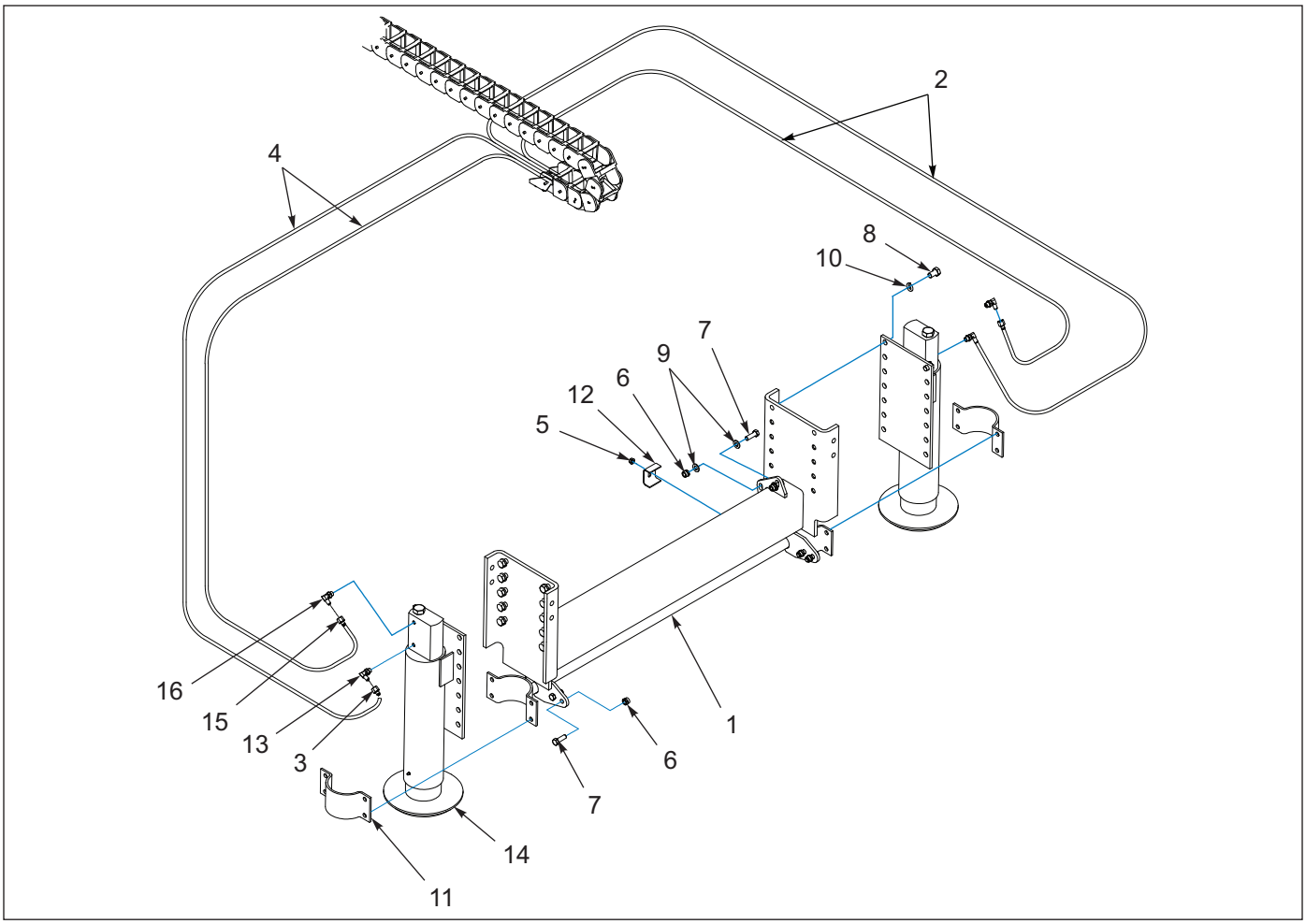


Figure 1-135: Single 60K Dock Leveler Assembly

Single 60K Dock Leveler Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	121498	DOCK LEVEL ASSEMBLY SINGLE 60K	- -
1	121402	MOUNT WELDMENT, D/L	1
2	122540	HOSE ASSEMBLY 1/4 X 240	2
3	1-007-010058	ADAPTER HYD #4 JIC W/ 3/32 RESTRICTOR	2
4	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	5
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	24
9	1-861-010032-14	WASHER, FLAT 1/2N	8
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	24
11	100348	MOUNTING BRACKET FOR CYLINDER	REF
12	2-181-010001	CLAMP, HOSE	3
13	2062-6-4S	ADAPTER, 90	4
14	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-244)**	2
15	202702-6-4S	ADAPTER, STRAIGHT	2
16	138155	ADAPTER, 90	2
17	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR

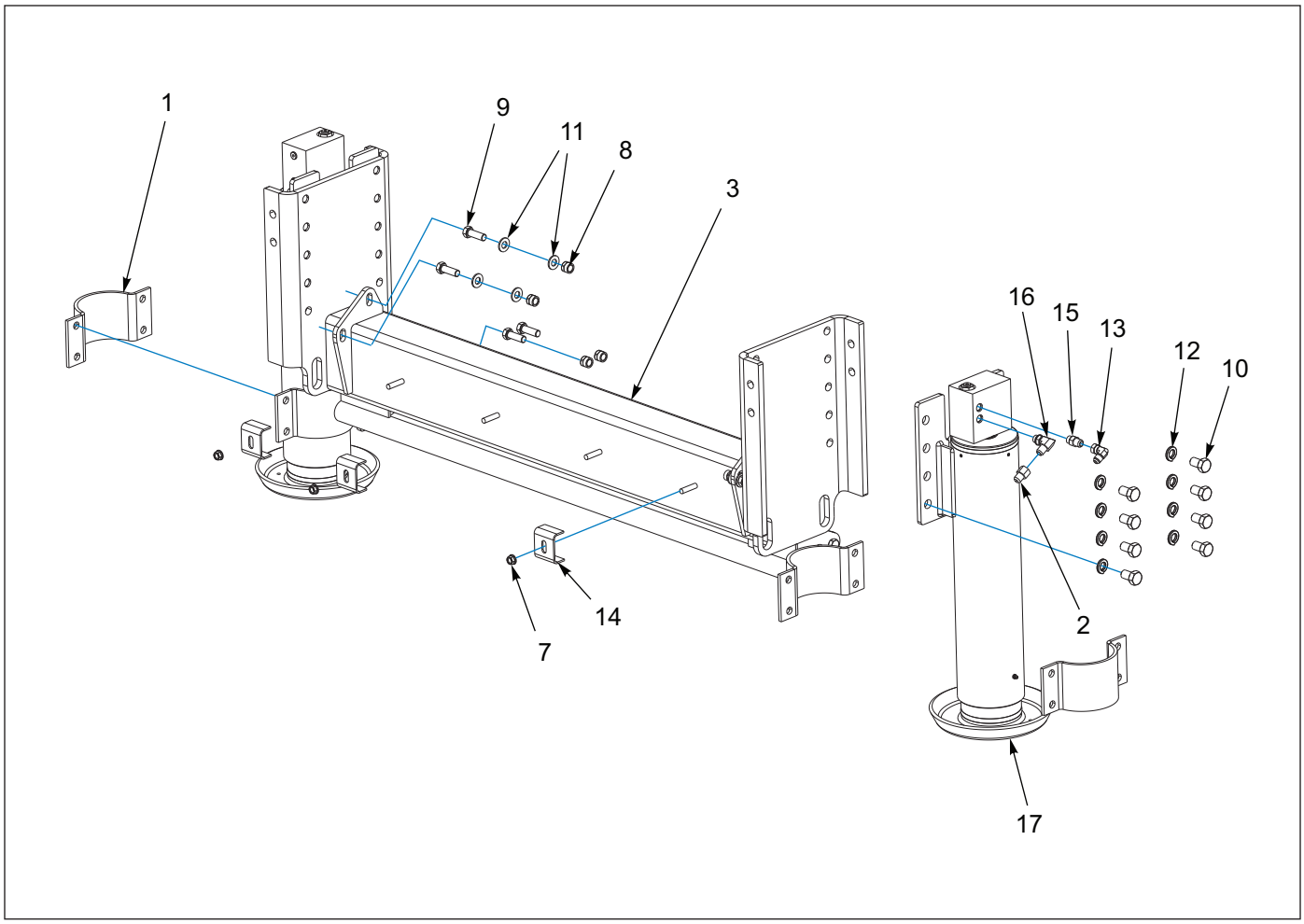


Figure 1-136: Single 60K Arctic Dock Leveler Assembly

Single 60K Arctic Dock Leveler Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	172775	DOCK LEVEL ASSEMBLY SINGLE 60K ARCTIC	- -
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	118165	ADAPTER, HYDRAULIC W/ 3/32 RESTRICTOR	2
3	121402	MOUNT WELDMENT, D/L	1
4	172776	HOSE ASSEMBLY, 3/8 X 240 ARCTIC **(TO CURBSIDE CYLINDER)**	2
5	172848	HOSE ASSEMBLY, 3/8 X 216 ARCTIC **(TO STREETSIDE CYLINDER)**	2
6	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	102-0031	ADAPTER, 90	2
14	2-181-010001	CLAMP, HOSE	3
15	202702-6-6S	ADAPTER, STRAIGHT	2
16	2062-6-6S	ADAPTER, 90	2
17	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-244)**	2

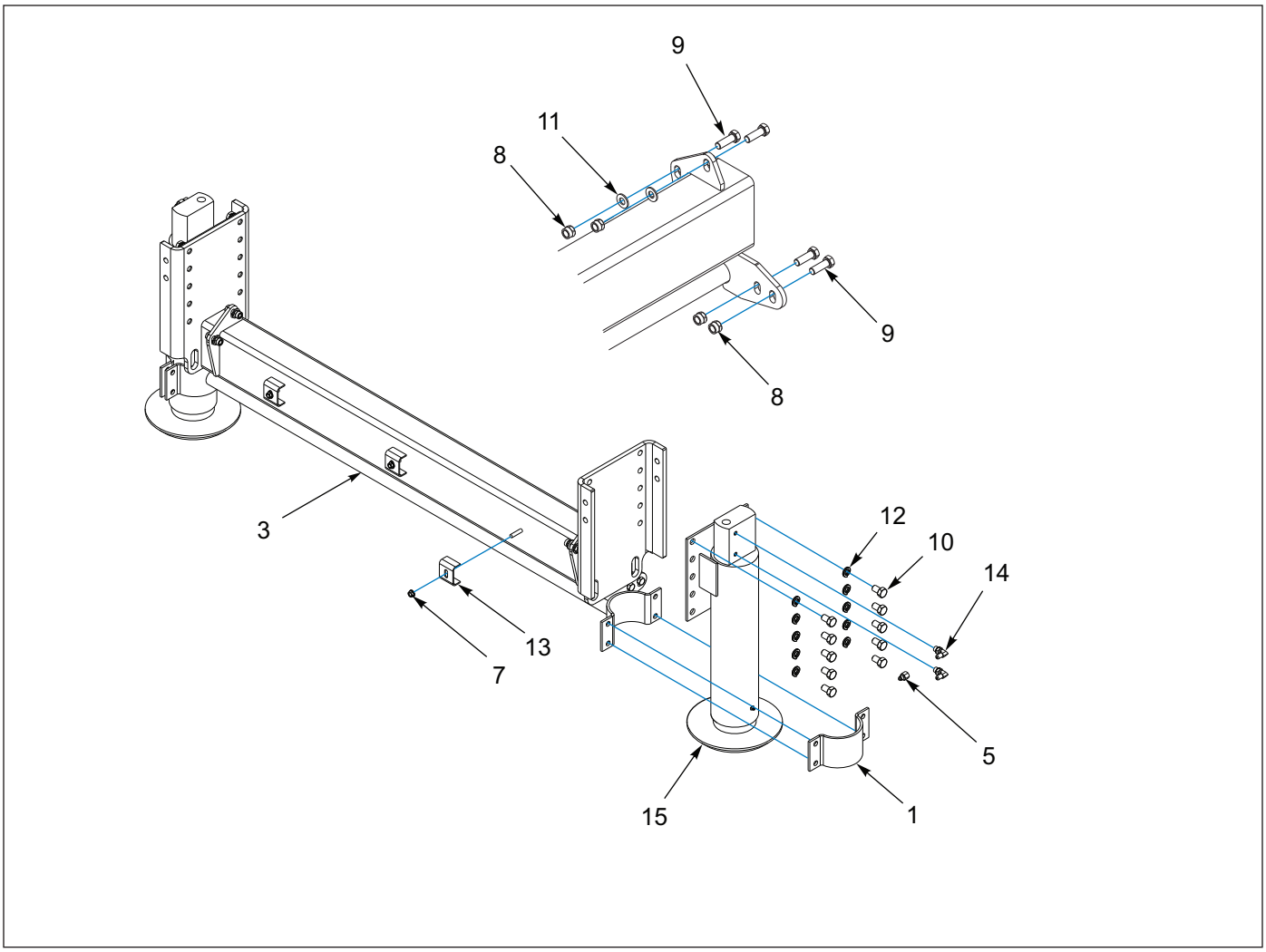


Figure 1-137: Single 60K Dock Leveler Assembly - 455

Single 60K Dock Leveler Assembly - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	174179	DOCK LEVEL ASSEMBLY, 60K **(455-120)**	- -
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	174181	MOUNT WELDMENT, DOCK LEVEL	1
3	174184	HOSE ASSEMBLY, 1/4 X 232 **(TO STREETSIDE CYLINDER)**	2
4	174185	HOSE ASSEMBLY, 1/4 X 270 **(TO CURBSIDE CYLINDER)**	2
5	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	2
6	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	2-181-010001	CLAMP, HOSE	3
14	2062-6-4S	ADAPTER, 90	4
15	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-244)**	2

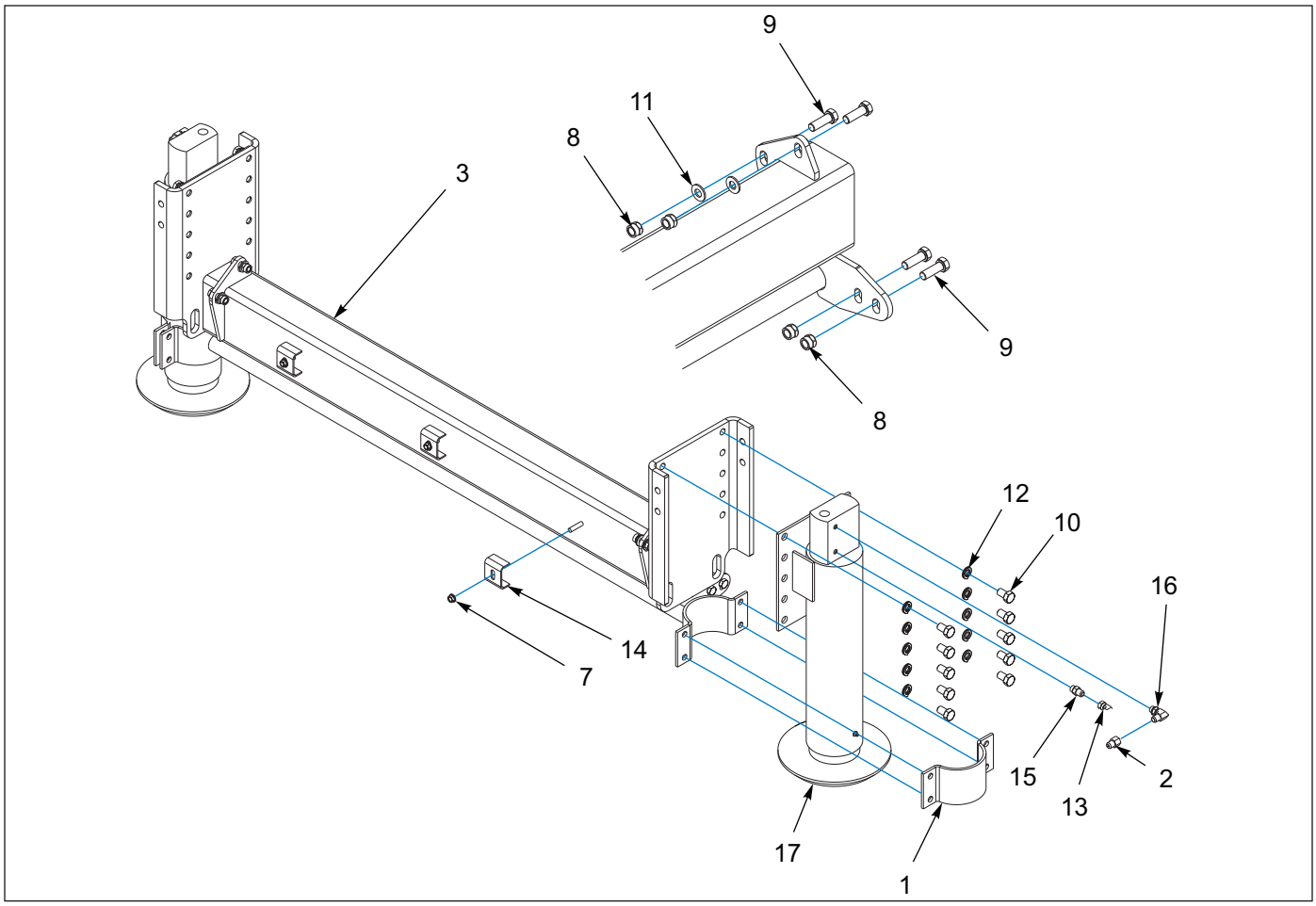


Figure 1-138: 60K Arctic Dock Leveler Assembly - 455

60K Arctic Dock Leveler Assembly - 455

ITEM	PART NO.	DESCRIPTION	QTY.
	174180	DOCK LEVEL ASSEMBLY SINGLE 60K	- -
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	118165	ADAPTER, HYDRAULIC W/ 3/32 RESTRICTOR	2
3	174181	MOUNT WELDMENT, DOCK LEVEL	1
4	174186	HOSE ASSEMBLY, 3/8 X 232 ARCTIC **(TO STREETSIDE CYLINDER)**	2
5	174187	HOSE ASSEMBLY, 3/8 X 270 ARCTIC **(TO CURBSIDE CYLINDER)**	2
6	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	102-0031	ADAPTER, 90	2
14	2-181-010001	CLAMP, HOSE	3
15	202702-6-6S	ADAPTER, STRAIGHT	2
16	2062-6-6S	ADAPTER, 90	2
17	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-244)**	2

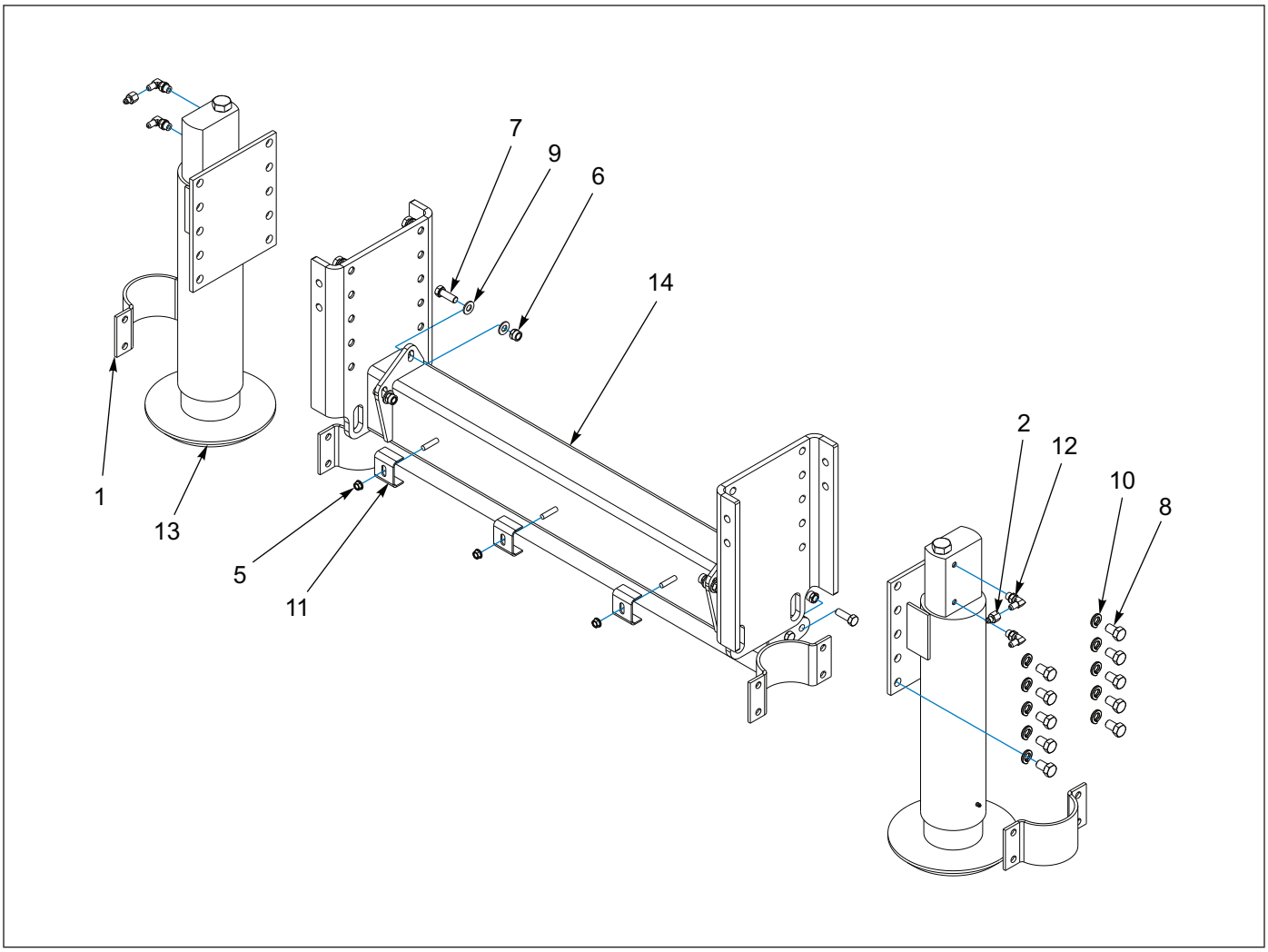


Figure 1-139: Single 60K Euro Dock Leveler Assembly

Single 60K Euro Dock Leveler Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	130851	DOCK LEVEL ASSEMBLY SINGLE 60K	- -
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	2
3	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	AR
4	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216 **(NOT SHOWN)**	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
9	1-861-010032-14	WASHER, FLAT 1/2N	8
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
11	2-181-010001	CLAMP, HOSE	3
12	2062-6-4S	ADAPTER, 90	4
13	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR)(SEE PAGE 1-244)**	2
14	3-482-010472	MOUNT WELDMENT, DOCK LEVEL 60K	1
15	122540	HOSE ASSEMBLY 1/4 X 240 **(NOT SHOWN)**	2

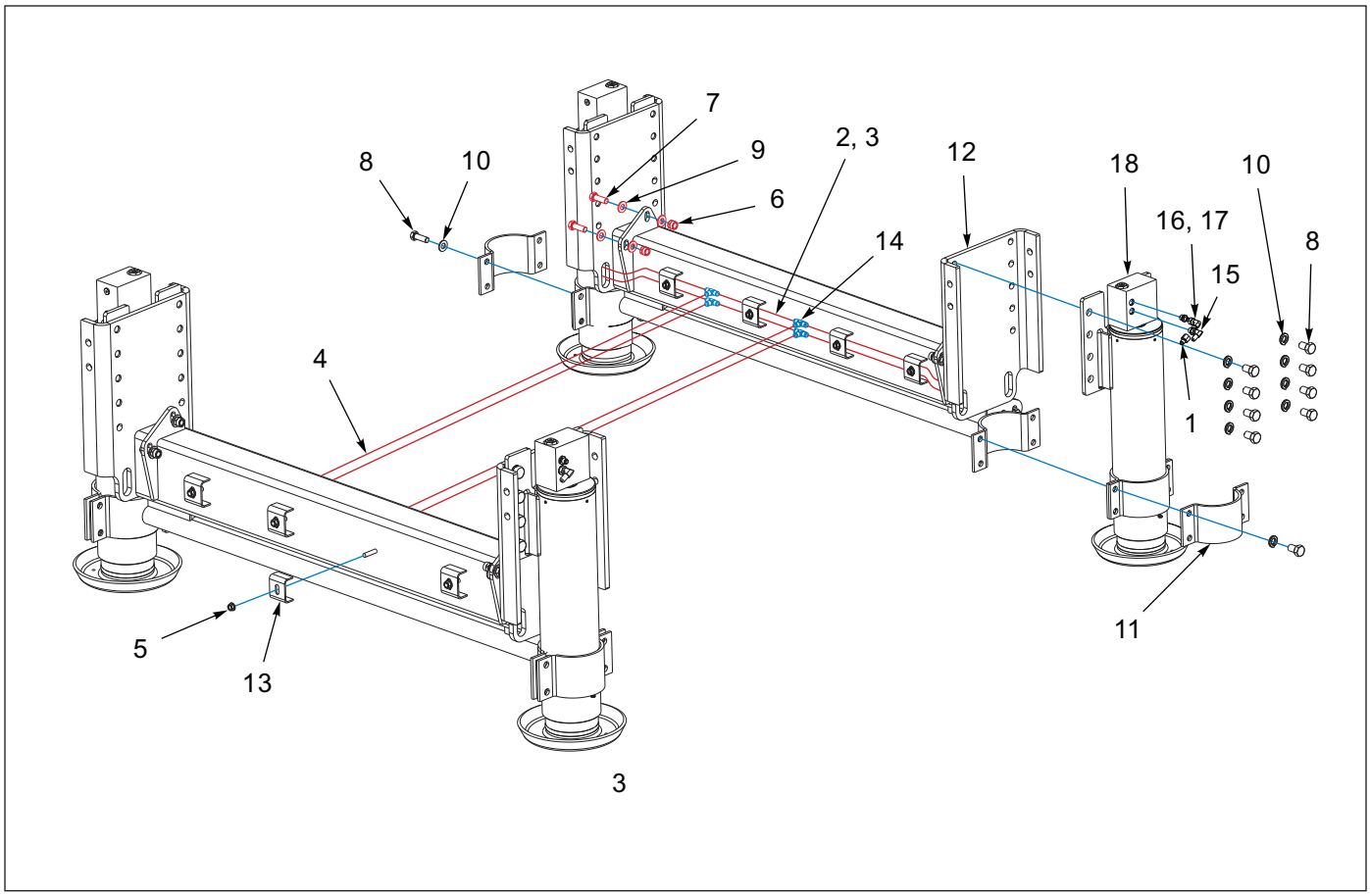


Figure 1-140: 120K Dock Leveler Assembly

120K Dock Leveler Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	126537	DOCK LEVEL ASSEMBLY SINGLE 120K	- -
1	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	4
2	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	4
3	1-397-010262028	HOSE ASSEMBLY 1/4 X 28	4
4	1-397-010262100	HOSE ASSEMBLY 1/4 X 100	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	8
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	16
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	16
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	32
9	1-861-010032-14	WASHER, FLAT 1/2N	16
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	32
11	100348	MOUNTING BRACKET FOR CYLINDER	REF
12	121402	MOUNT WELDMENT, D/L	2
13	2-181-010001	CLAMP, HOSE	8
14	2033-4-4S	ADAPTER, TEE	4
15	2062-6-4S	ADAPTER, 90	4
16	138155	ADAPTER, 90	4
17	202702-6-4S	ADAPTER, STRAIGHT	4
18	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-244)**	4
19	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR

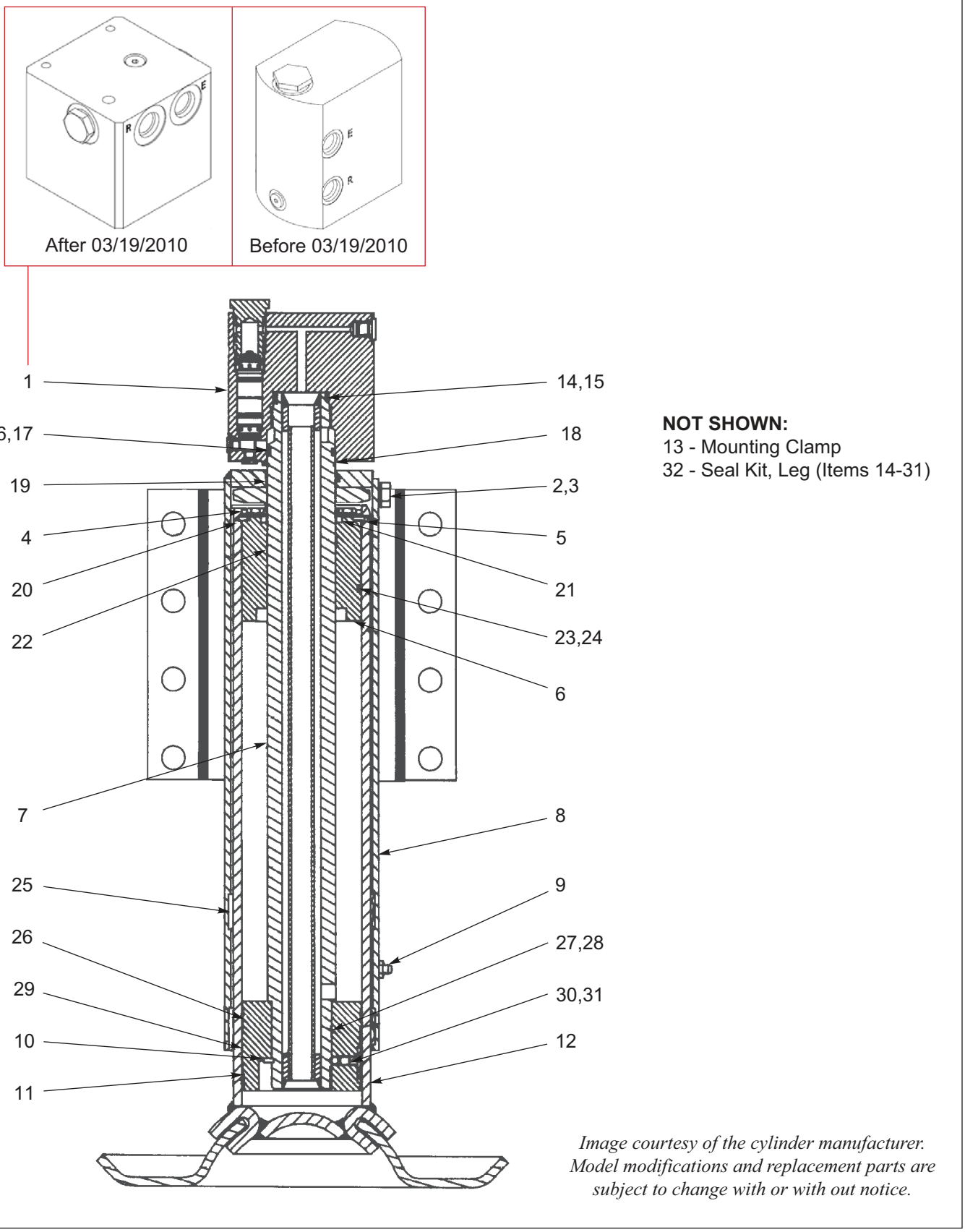


Figure 1-141: Dock Leveler Cylinder Components

Dock Leveler Cylinder Components

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010205	CYLINDER,HYD,DK LVLR, 4X15 **(60,000LB CAPACITY, 4 INCH BORE)**	- -
1	300092	STABILIZER CHECK VALVE **(OBSOLETE AFTER 03/19/2010, ORDER 165768)**	- -
1	165768	RETROFIT KIT **(STABILIZER COUNTER BALANCE VALVE)**	1
2	- - - - -	SCREW, HEX HEAD CAP	1
3	- - - - -	LOCK WASHER	1
4	15-1012	BOLT HEX CAP	4
5	100279	BAR FL 5/8X6X30.625 80M	1
6	100276	ROD GUIDE 4IN	1
7	- - - - -	PISTON ROD **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
8	- - - - -	WELL TUBE **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
9	- - - - -	GREASE FITTING	1
10	- - - - -	SNAP RING	1
11	- - - - -	PISTON **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
12	- - - - -	CYLINDER TUBE **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
13	100348	MTG BRKT FOR CYL 3-242-010058 **(NOT SHOWN)**	1
14	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
15	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	2
16	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
17	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	1
18	- - - - -	SNAP RING 2" ROD **(INCLUDED WITH ITEMS 32)**	1
19	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
20	- - - - -	RETAINING RING **(INCLUDED WITH ITEMS 32)**	1
21	- - - - -	OIL SEAL **(INCLUDED WITH ITEMS 32)**	1
22	- - - - -	ROD SEAL **(INCLUDED WITH ITEMS 32)**	1
23	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
24	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	1
25	- - - - -	WEAR RING **(INCLUDED WITH ITEMS 32)**	2
26	- - - - -	PISTON SEAL **(INCLUDED WITH ITEMS 32)**	1
27	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
28	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	2
29	- - - - -	WEAR RING **(INCLUDED WITH ITEMS 32)**	1
30	- - - - -	NYLON BALL **(INCLUDED WITH ITEMS 32)**	1
31	- - - - -	SET SCREW **(INCLUDED WITH ITEMS 32)**	1
32	100422	KIT, LEG REPAIR **(KIT INCLUDES ITEMS 14-31)**	1

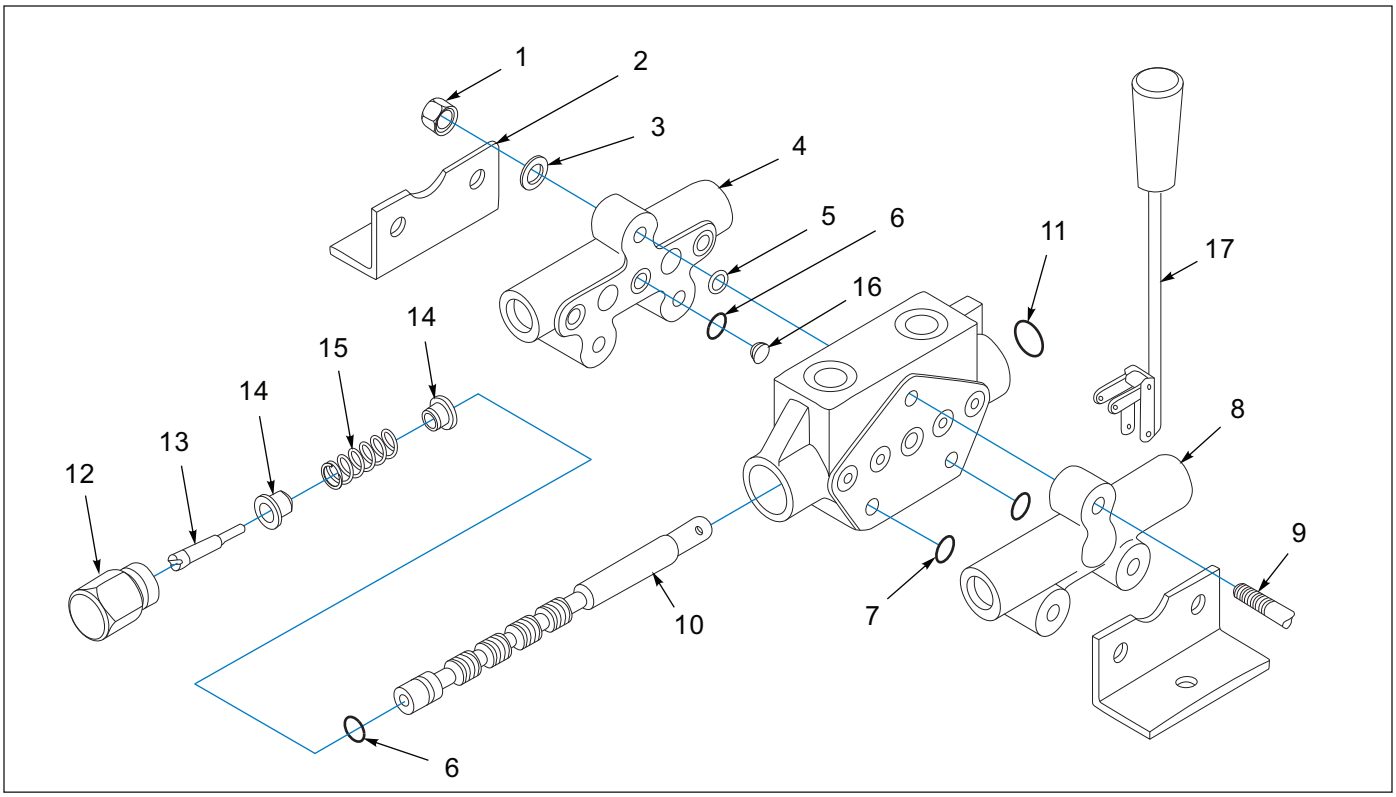


Figure 1-142: Dock Leveler Spool Valve (BEFORE 01/15/2014)

Dock Leveler Spool Valve (BEFORE 01/15/2014)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010056	DOUBLE SPOOL STACK VALVE-PARALLEL **(PRIOR TO 9-16-2013)**	1
1	- - - - -	NUT	3
2	- - - - -	MOUNTING BRACKET	2
3	- - - - -	WASHER	2
4	- - - - -	OUTLET SECTION **(INCLUDES SEALS)**	1
4	- - - - -	OUTLET SEAL KIT	1
5	- - - - -	MYLAR SHIM **(BETWEEN SECTIONS)**	3
6	- - - - -	O-RING	1
7	- - - - -	O-RING	10
8	- - - - -	INLET SECTION **(INCLUDES SEALS)**	1
8	- - - - -	INLET SEAL KIT	1
9	- - - - -	TIE ROD	3
10	- - - - -	VALVE SECTION	2
10	- - - - -	VALVE SECTION SEAL KIT **(INCLUDES ITEMS 5, 6, 7, & 11)**	6
11	- - - - -	O-RING	2
12	- - - - -	SPRING CAP	2
13	4010520	SPRING SHAFT	2
14	4010530	SPRING GUIDE	4
15	- - - - -	SPRING	2
16	- - - - -	CLOSED CENTER PLUG	1
17	6405000	HANDLE KIT **(NOT SHOWN)**	2
18	- - - - -	BANKING KIT **(NOT SHOWN) (INCLUDES ITEMS 1, 2, 3, & 9)**	2

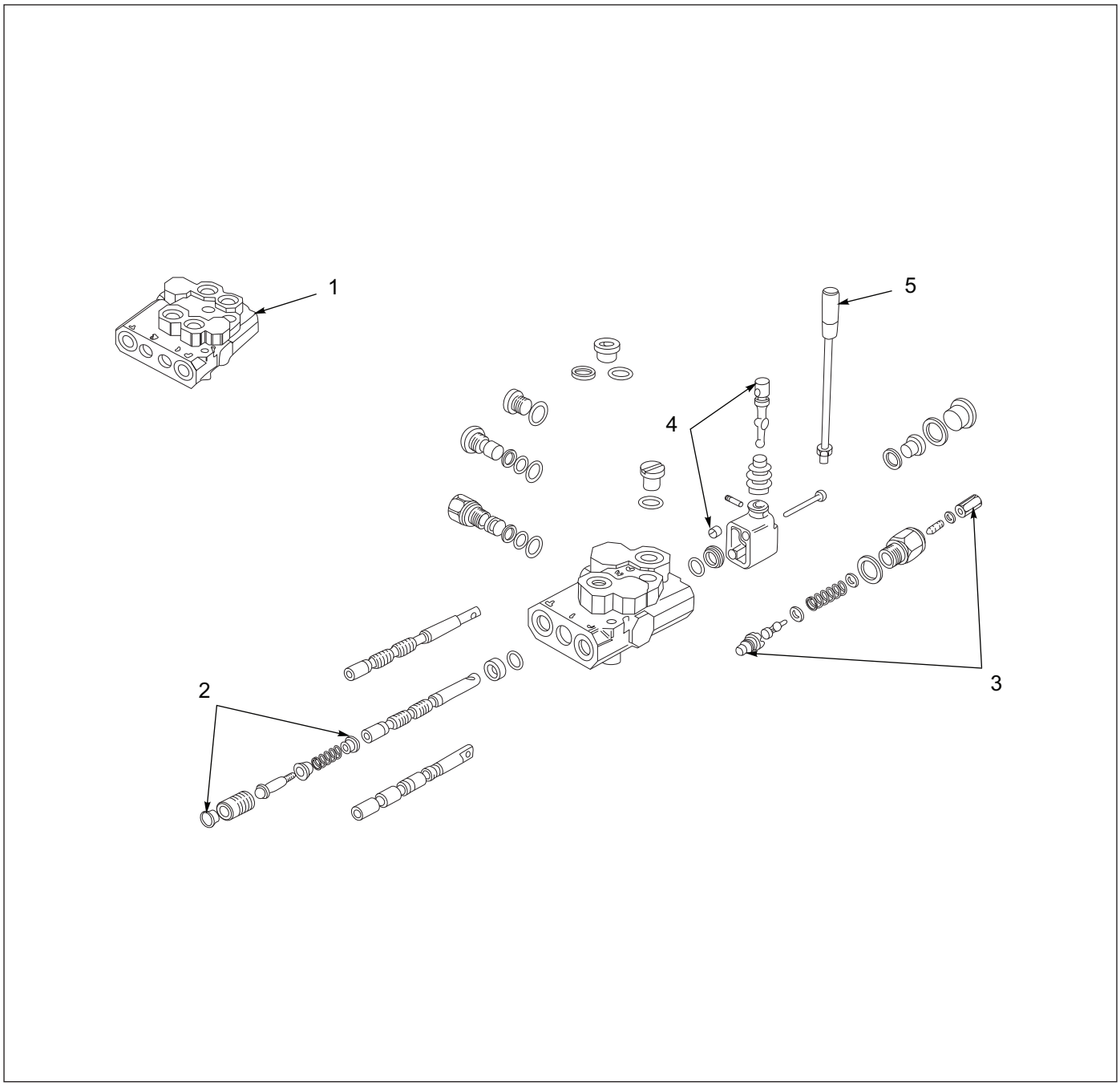


Figure 1-143: Dock Leveler Valve (After 01/15/2014)

Dock Leveler Valve (After 01/15/2014)

ITEM	PART NO.	DESCRIPTION	QTY.
1	179649	DOUBLE SPOOL STACK VALVE-PARALLEL	1
2	194731	SPOOL POSITIONER SPRING CENTER	1
3	194732	RELIEF VALVE ASSEMBLY	1
4	194733	SPOOL OPERATOR	1
5	194734	HANDLE	1
6	194735	SEAL KIT **(NOT SHOWN)**	1

Landing Gear

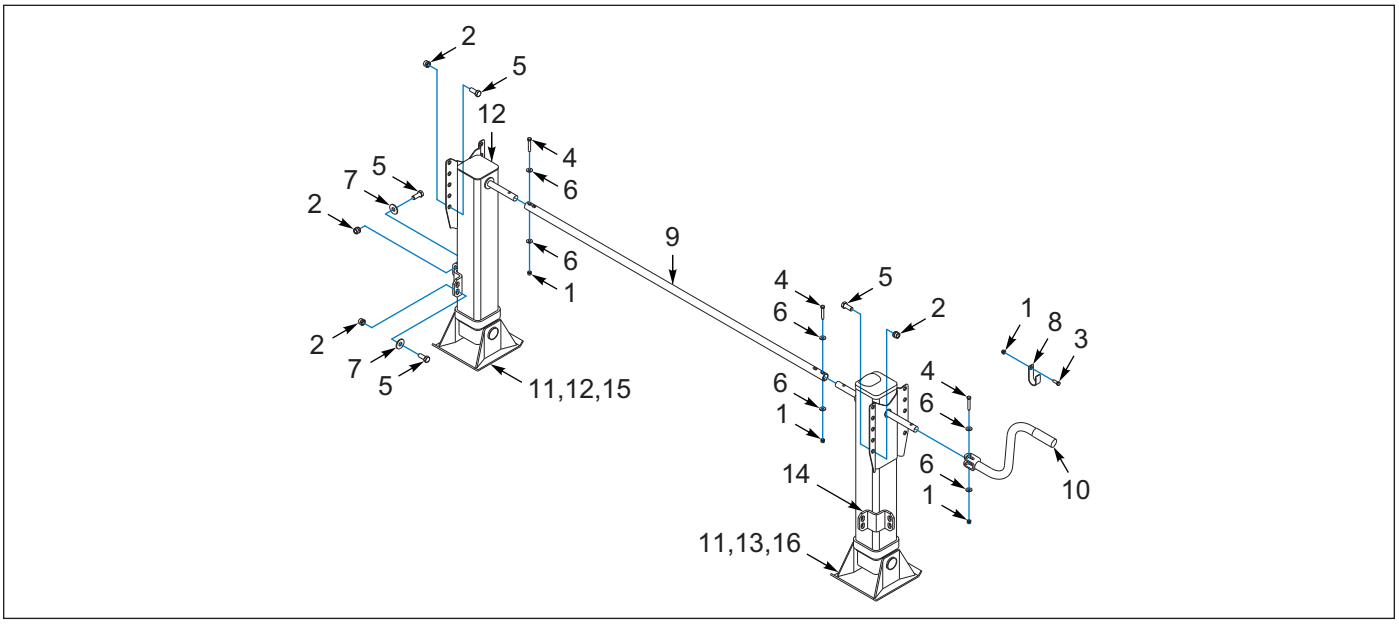


Figure 1-144: Landing Legs, Gear, 2 Spd, Flip Crank, Front Interior Low Mt Bkt

Landing Legs, Gear, 2 Spd, Flip Crank, Front Interior Low Mt Bkt

ITEM	PART NO.	DESCRIPTION	QTY.
	117558	LANDING GEAR INST - JOST 410 **(102" TRL)**	- -
	164120	LANDING GEAR JOST 455-108 **(108" TRL)**	- -
	133799	LANDING GEAR INST-JOST410-120 **(120" TRL)**	- -
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	24
3	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	1
4	1-654-010051-10	SCREW,HX CP3/8-16X2-1/4 GR5	3
5	1-654-010059-03	SCREW 5/8-11UNCX1-1/2 HXCP G5	24
6	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	6
7	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	4
8	117559	CLIP LDG GEAR HANDLE	1
9	117561	CROSS-SHAFT LANDING GEAR 410 **(102" TRL, 70" SHAFT)**	1
9	164121	CROSS-SHAFT LG 455-108 **(108" TRL, 76" SHAFT)**	1
9	133798	CROSS-SHAFT LANDING GEAR 410 **(120" TRL, 88" SHAFT)**	1
10	119949	HANDLE,CRANK 2-SPD LDG GR,410	1
11	139256	LANDING GEAR 2SPD 400/900WLDMT **(SET INCLUDES ITEMS 12-13)**	1
12	225286	LEG CURBSIDE REPLT 400/900 WLD **(INCLUDED WITH ITEM 11) (INCLUDES ITEMS 14-15)**	1
13	225287	LEG STREETSIDE REPLT400/900WLD **(INCLUDED WITH ITEM 11) (INCLUDES ITEMS 14, 16)**	1
14	139255	ANCHOR,LWR,PARK STAND 410/930 **(INCLUDED WITH ITEMS 11-13)**	2
15	137974	RH LANDING GEAR LEG A401T19 **(CURBSIDE LEG, WO/ ITEM 14) (INCLUDED WITH ITEM 12) (COMPONENTS - SEE PAGE 1-251)**	1
16	225284	LH LANDING LEG CRANK SIDE **(STREETSIDE LEG, WO/ ITEM 14) (INCLUDED WITH ITEM 13) (COMPONENTS - SEE PAGE 1-251)**	1

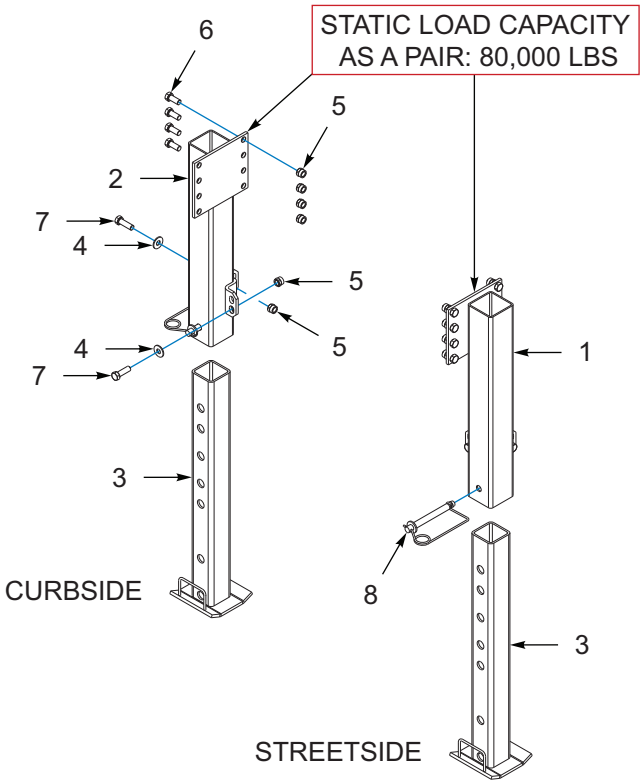


Figure 1-145: Landing Legs, Pinned (OPTION)

Landing Legs, Pinned (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INSTL, PIN DROP	- -
1	112678	PARK STD WLDMT,LH FRONT PIN	1
2	112679	PARK STD WLDMT,RH FRONT PIN	1
3	3-725-010058	STAND, PARK INSIDE WLDMT **(32-3/4 TUBE)**	2
4	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	4
5	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	20
6	1-654-010059-03	SCREW 5/8-11UNCX1-1/2 HXCP G5	16
7	1-654-010059-05	SCREW,HEX CAP,5/8-11UNCX2 GR5	4
8	346SL	SNAP LOCK PIN 3/4" W/ WASHER	2

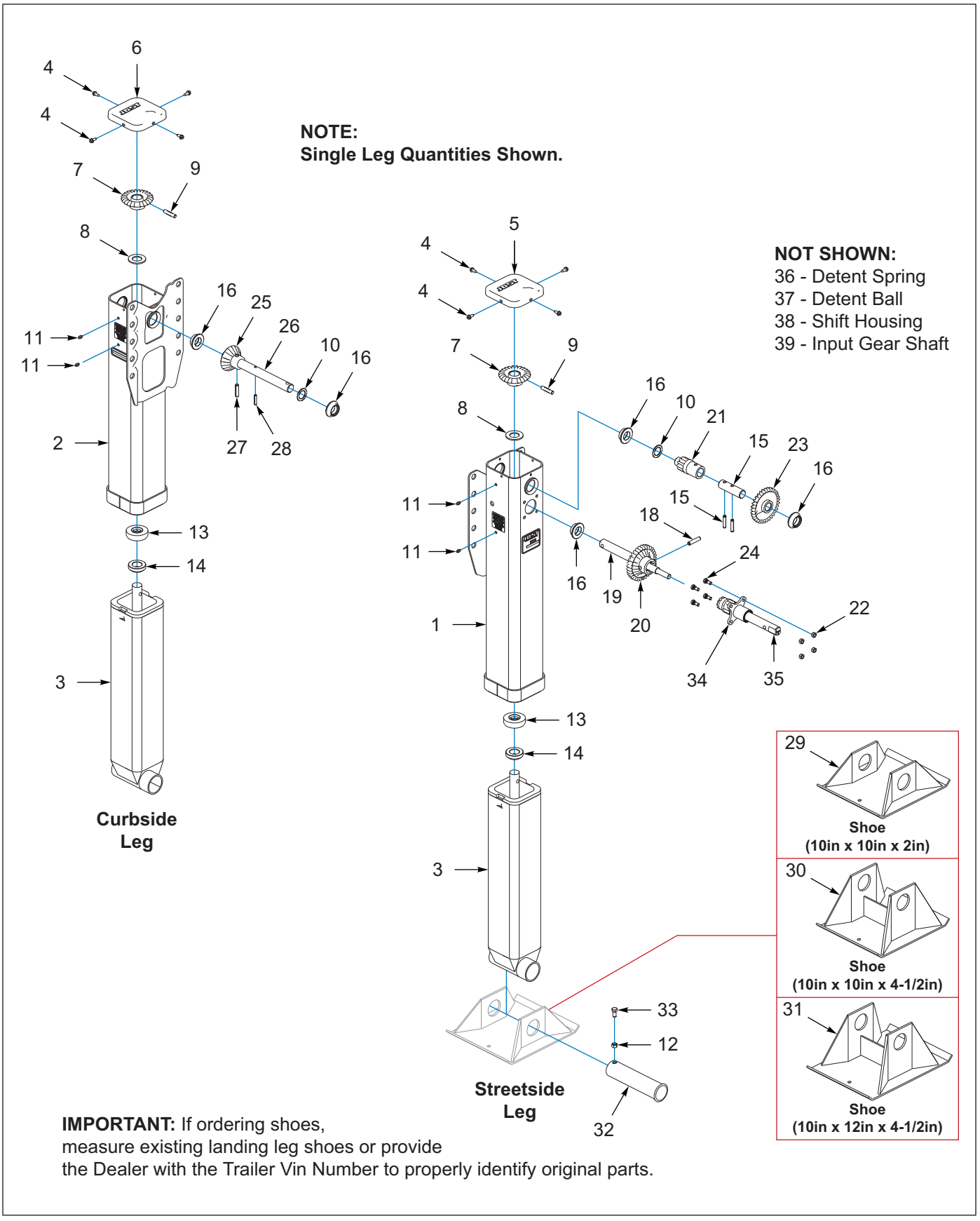


Figure 1-146: Landing Leg Components, Gear, 2 Spd

Landing Leg Components, Gear, 2 Spd

ITEM	PART NO.	DESCRIPTION	QTY.
	116800	LANDING GEAR JOST #A401T19 **(19" TRAVEL, REQUIRES ITEM 30, SHOE 10 X 10 X 4-1/2)**	- -
1	- - - - -	UPPER HOUSING, 2 SPEED **(19" STREETSIDE)**	1
2	- - - - -	UPPER HOUSING, 1 SPEED **(19" CURBSIDE)**	1
3	- - - - -	INNER LANDING LEG **(19" LOWER LEG ASSEMBLY)**	1
4	- - - - -	COVER SCREW	4
5	- - - - -	COVER, 2 SPEED **(STREETSIDE)**	1
6	- - - - -	COVER, 1 SPEED **(CURBSIDE)**	1
7	- - - - -	BEVEL GEAR	1
8	- - - - -	THRUST WASHER	1
9	- - - - -	GROOVED PIN	1
10	- - - - -	SPACER WASHER	1
11	- - - - -	GREASE FITTING	2
12	A10038.7	SELF LOCKING NUT	1
13	- - - - -	THRUST WASHER	1
14	- - - - -	COLLAR	1
15	- - - - -	OUTPUT SHAFT	1
16	- - - - -	BUSHING **(STREETSIDE REQ 3 EACH) (CURBSIDE REQ 2 EACH)**	- -
17	- - - - -	SPIRAL PIN	2
18	- - - - -	ROLL PIN 3/8 X 1-3/4	1
19	- - - - -	OUTPUT CLUSTER SHAFT	1
20	- - - - -	OUTPUT CLUSTER SHAFT GEAR	1
21	- - - - -	OUTPUT SPUR GEAR	1
22	- - - - -	SELF LOCKING NUT	4
23	- - - - -	INPUT SPUR GEAR	1
24	- - - - -	SHIFT HOUSING BOLT	4
25	- - - - -	PINION GEAR, 1 SPEED	1
26	- - - - -	PINION SHAFT, 1 SPEED	1
27	- - - - -	ROLL PIN 3/8 X 1-1/2	1
28	- - - - -	ROLL PIN 1/4 X 1-1/4	1
29	129198	SHOE, JOST, LOW PROFILE (10 IN X 10 IN X 2 IN)	1
30	114529	JOST C10035 SHOE FOR 109709 **(10 IN X 10 IN X 4-1/2 IN)**	1
31	C10256	SAND SHOE **(10 IN X 12 IN X 4-1/2 IN)**	1
32	114983	SHOE AXLE B10036 FOR 109709 **(PIN)**	1
33	A10037.3	HEX HEAD BOLT	2
34	163502	SHAFT HOUSING SERVICE KIT **(KIT INCLUDES ITEMS 36-38)**	1
35	207360	SHIFT HOUSING SERVICE KIT **(KIT INCLUDES ITEMS 36-39)**	1
36	- - - - -	DETENT SPRING **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	1
37	- - - - -	DETENT BALL **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	2
38	- - - - -	SHIFT HOUSING **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	1
39	- - - - -	INPUT GEAR SHAFT **(INCLUDED WITH ITEMS 35, NOT SHOWN)**	1

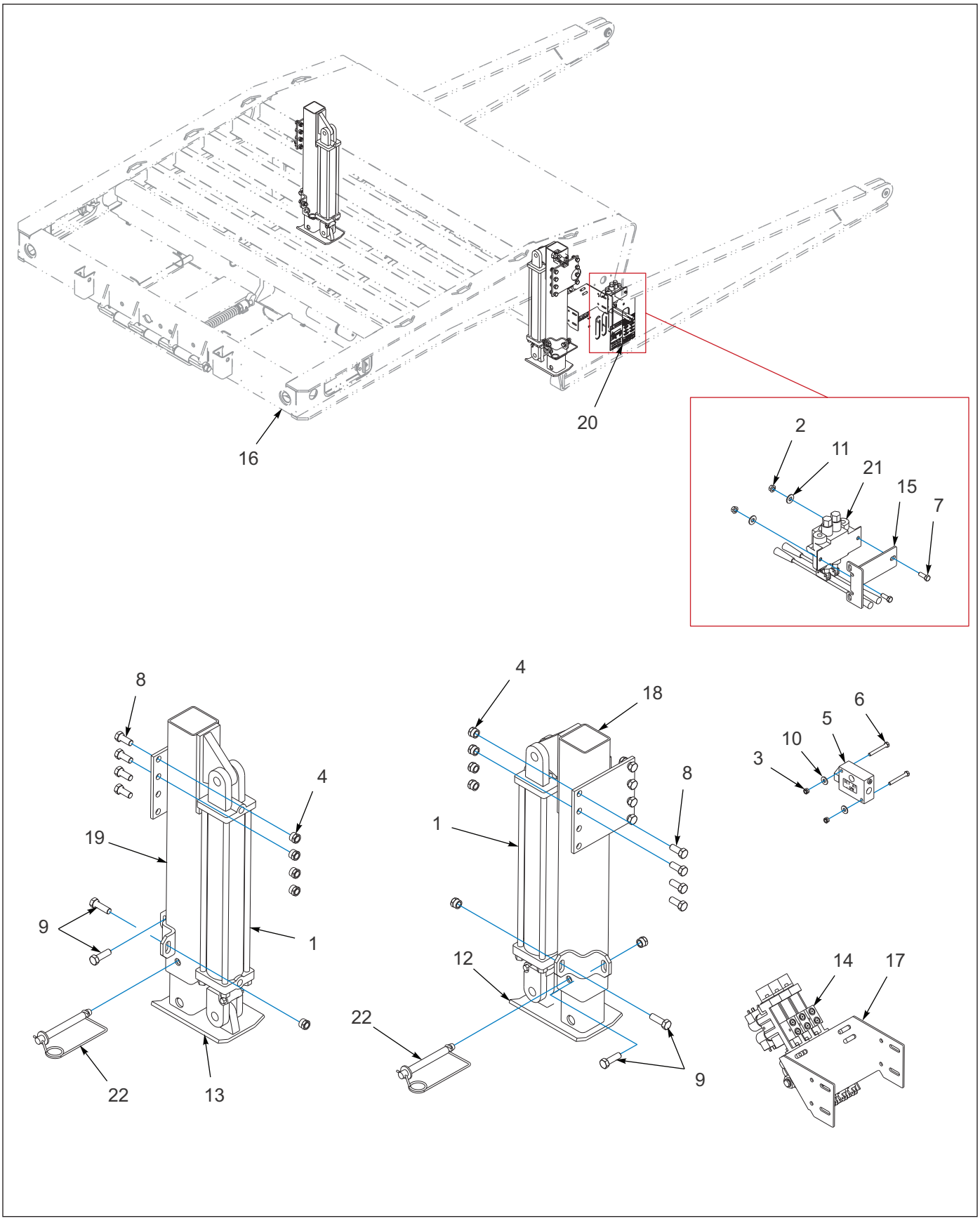


Figure 1-147: Hydraulic Park Stand Installation General Items

Hydraulic Park Stand Installation General Items

ITEM	PART NO.	DESCRIPTION	QTY.
	129069	PARK STAND INSTALLATION, HYDRAULIC	- -
	169619	PARK STAND INSTALLATION, HYDRAULIC ARCTIC	- -
1	1-242-010180-2	CYLINDER, HYDRAULIC 3-1/2 X 20 3000 PSI **(SEE PAGE 1-256)**	2
2	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
4	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
5	1-626-010002-06	REGULATOR, FLOW 1/2-6 GPM	1
6	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2
7	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
8	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5	16
9	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
10	1-861-010032-09	WASHER, FLAT 5/16W	2
11	1-861-010032-11	WASHER, FLAT 3/8W	2
12	104241	PARK STAND WELDMENT, HYDRAULIC LH LEG	1
13	104242	PARK STAND WELDMENT, HYDRAULIC RH LEG	1
14	- - - - -	VALVE, 3 STACK MOTOR SOL	REF
15	121124	BRACKET, VALVE DOCK LEVEL CONTROL	1
16	- - - - -	FRAME ASSEMBLY, G/N	REF
17	122474	VALVE MOUNT, CONTROL	1
18	129084	PARK STAND WELDMENT, HYDRAULIC LH	1
19	129085	PARK STAND WELDMENT, HYDRAULIC RH	1
20	3-573-010202	DECAL, DANGER/ OPERATION, DOCK LEVEL	1
21	3-846-010056	VALVE, DOUBLE SPOOL STACK PARALLEL **(PRIOR TO 01/15/2014)**	1
21	179649	VALVE, DOUBLE SPOOL **(AFTER 01/15/2014)**	1
22	346SL	LOCK, HITCH PIN	2

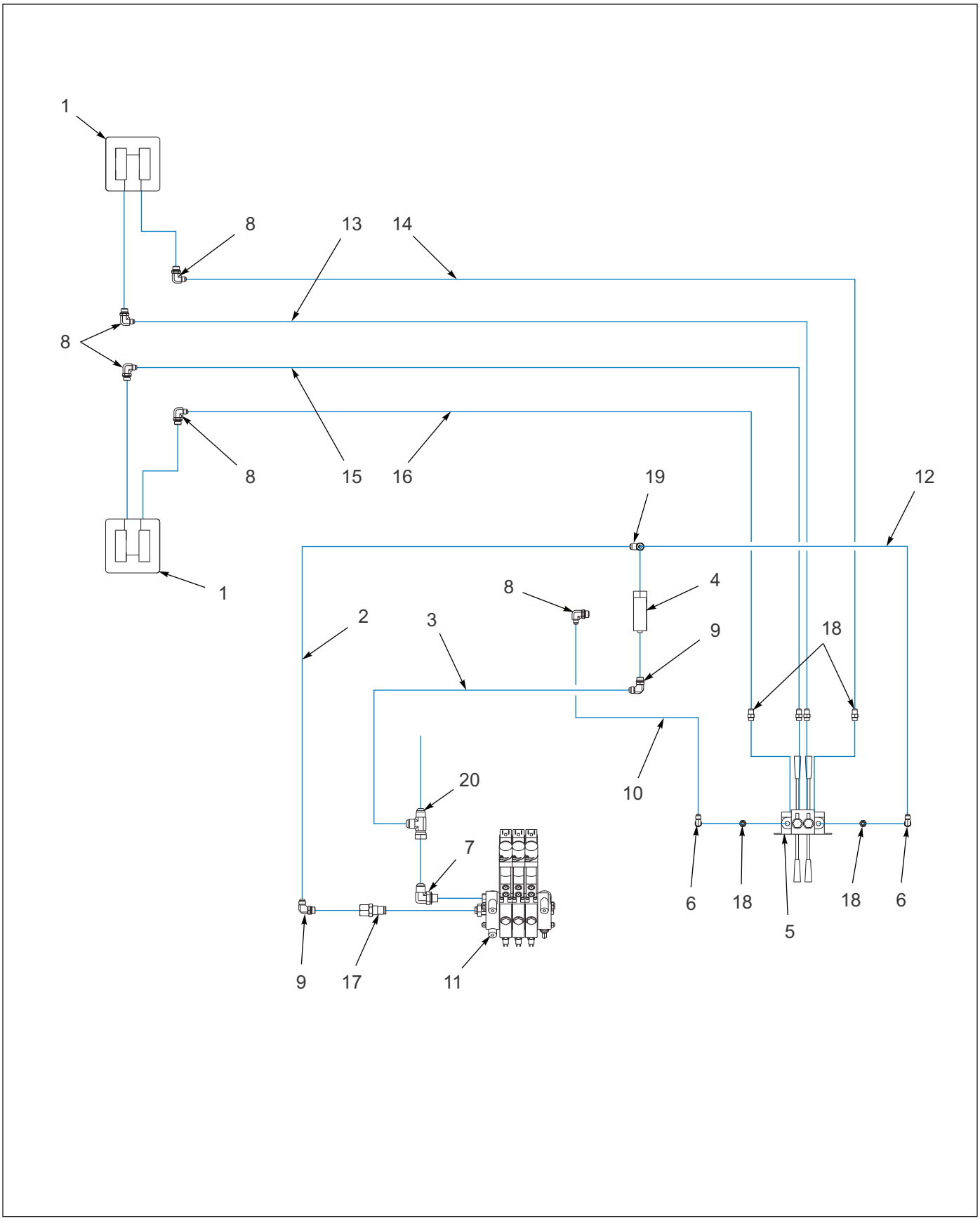


Figure 1-148: Hydraulic Park Stand Schematics

Hydraulic Park Stand Schematics

ITEM	PART NO.	DESCRIPTION	QTY.	
	129069	PARK STAND INSTALLATION, HYDRAULIC	*	
	169619	PARK STAND INSTALLATION, HYDRAULIC ARCTIC		*
1	1-242-010180-2	CYLINDER, HYDRAULIC 3-1/2 X 20 3000 PSI **(SEE PAGE 1-256)**	REF	REF
2	1-397-010302018	HOSE ASSEMBLY, 1/2 X 18	1	- -
2	169620	HOSE ASSEMBLY, 1/2 X 18 ARCTIC	- -	1
3	1-397-010306028	HOSE ASSEMBLY, 1/2 X 28	1	- -
3	169622	HOSE ASSEMBLY, 1/2 X 28 ARCTIC	- -	1
4	1-626-010002-06	REGULATOR, FLOW 1/2-6 GPM	1	1
5	3-846-010056	VALVE, DOUBLE SPOOL STACK PARALLEL **(PRIOR TO 01/15/2014)**	1	1
5	179649	VALVE, DOUBLE SPOOL **(AFTER 01/15/2014)**	1	1
6	102-0031	ADAPTER, 90	2	2
7	2062-10-12S	ADAPTER	2	2
8	2062-8-6S	ELBOW, 90	5	5
9	2062-8-8S	ADAPTER, 90	2	2
10	111302	HOSE ASSEMBLY 3/8 X 24	1	- -
10	169626	HOSE ASSEMBLY 3/8 X 24	- -	1
11	- - - - -	VALVE, 3 STACK MOTOR SOL	REF	REF
12	116429	HOSE ASSEMBLY 3/8 X 25	1	- -
12	169624	HOSE ASSEMBLY 3/8 X 25 ARCTIC	- -	1
13	116488	HOSE ASSEMBLY 3/8 X 136	1	- -
13	169630	HOSE ASSEMBLY 3/8 X 136 ARCTIC	- -	1
14	123490	HOSE ASSEMBLY, 3/8 X 113	1	- -
14	169629	HOSE ASSEMBLY, 3/8 X 113 ARCTIC	- -	1
15	129088	HOSE ASSEMBLY 3/8 X 60	1	- -
15	169627	HOSE ASSEMBLY 3/8 X 60 ARCTIC	- -	1
16	135189	HOSE ASSEMBLY 3/8 X 84	1	- -
16	169628	HOSE ASSEMBLY 3/8 X 84 ARCTIC	- -	1
17	138179	POWER BEYOND REMOTE	1	- -
18	202702-6-6S	ADAPTER, STRAIGHT	6	6
19	203005-8-8S	ADAPTER, TEE	1	1
20	203102-12-12S	ADAPTER, TEE	1	1

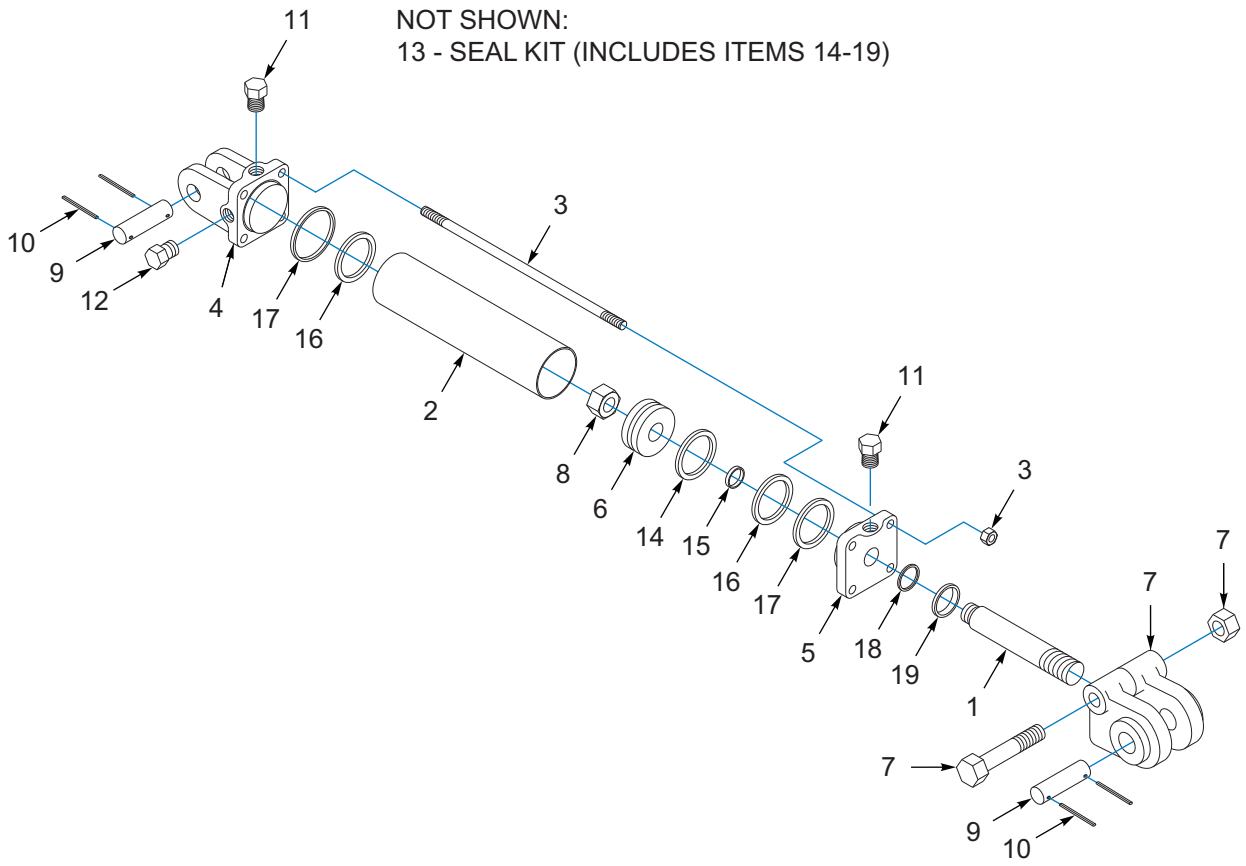


Figure 1-149: Cylinder Components, 3-1/2 X 20

Cylinder Components, 3-1/2 X 20

ITEM	PART NO.	DESCRIPTION	QTY.
	1-242-010180-2	CYLINDER,HYD 3-1/2X20 3000PSI	- -
1	010700437	PISTON ROD 3-1/2X20 SAE33520	1
2	- - - - -	TUBE	1
3	- - - - -	TIE ROD ASSY **(INCLUDES 1 TIE ROD & 1 NUT)**	4
4	141700023	ANCHOR GLAND	1
5	111870	GLAND 9800 #081700255	1
6	111866	PISTON 9800 #071700174	1
7	100000330	ASSY, CLEVIS **(INCLUDES 1 BOLT & 1 NUT)**	1
8	220000210	LOCK NUT 4X8 OR 4X24 PRINCE	1
9	190400004	CYLINDER PIN 4IN KIT **(INCLUDES 2 PINS & ITEM 10, 2 EACH)**	2
10	106120	COTTER PIN #220001504 **(INCLUDED WITH ITEM 19)**	4
11	- - - -	PLASTIC PLUG	2
12	200300040	PLUG O-RING 1-242-010120	1
13	1-242-010178-2	CYLINDER PKG KIT 3000 PSI3.5" **(INCLUDES ITEMS 14-19)**	1
14	- - - - -	CROWN SEAL **(INCLUDED WITH ITEM 13)**	1
15	- - - - -	O-RING **(INCLUDED WITH ITEM 13)**	1
16	- - - - -	O-RING **(INCLUDED WITH ITEM 13)**	2
17	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 13)**	2
18	- - - - -	U-CUP **(INCLUDED WITH ITEM 13)**	1
19	- - - - -	WIPER **(INCLUDED WITH ITEM 13)**	1

Power Unit, Hydraulic (OPTIONS)

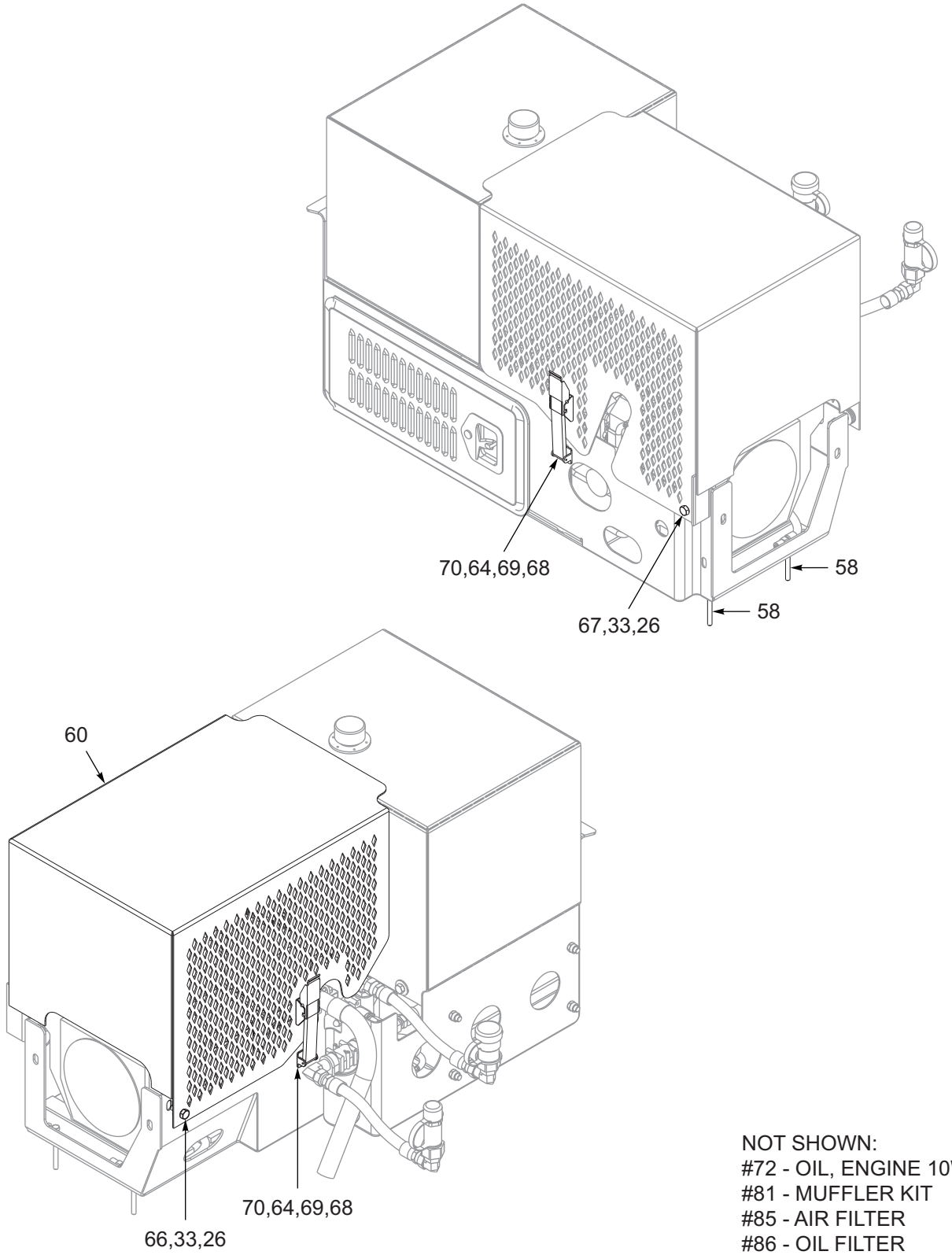


Figure 1-150: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (1 of 5)

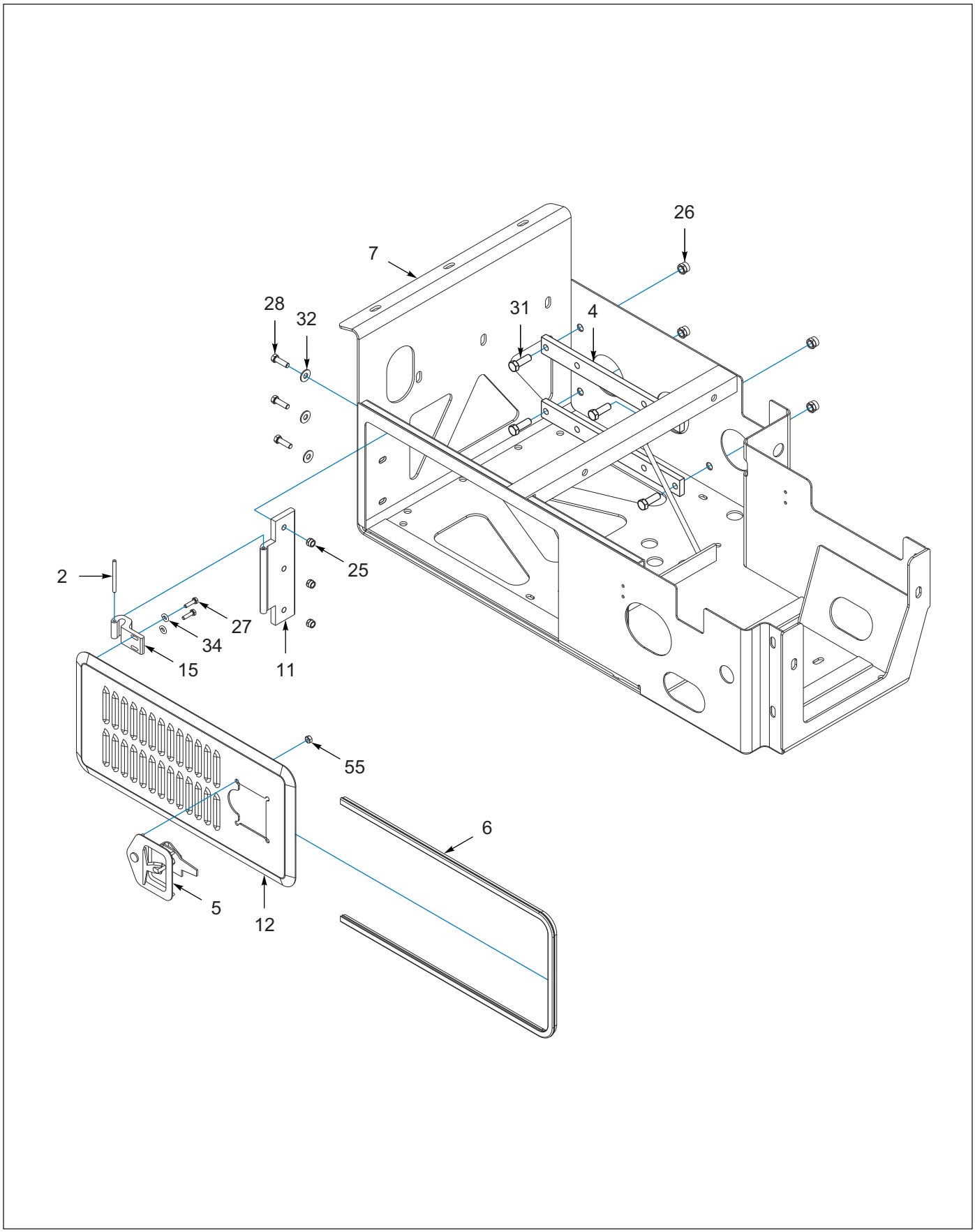


Figure 1-151: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (2 of 5)

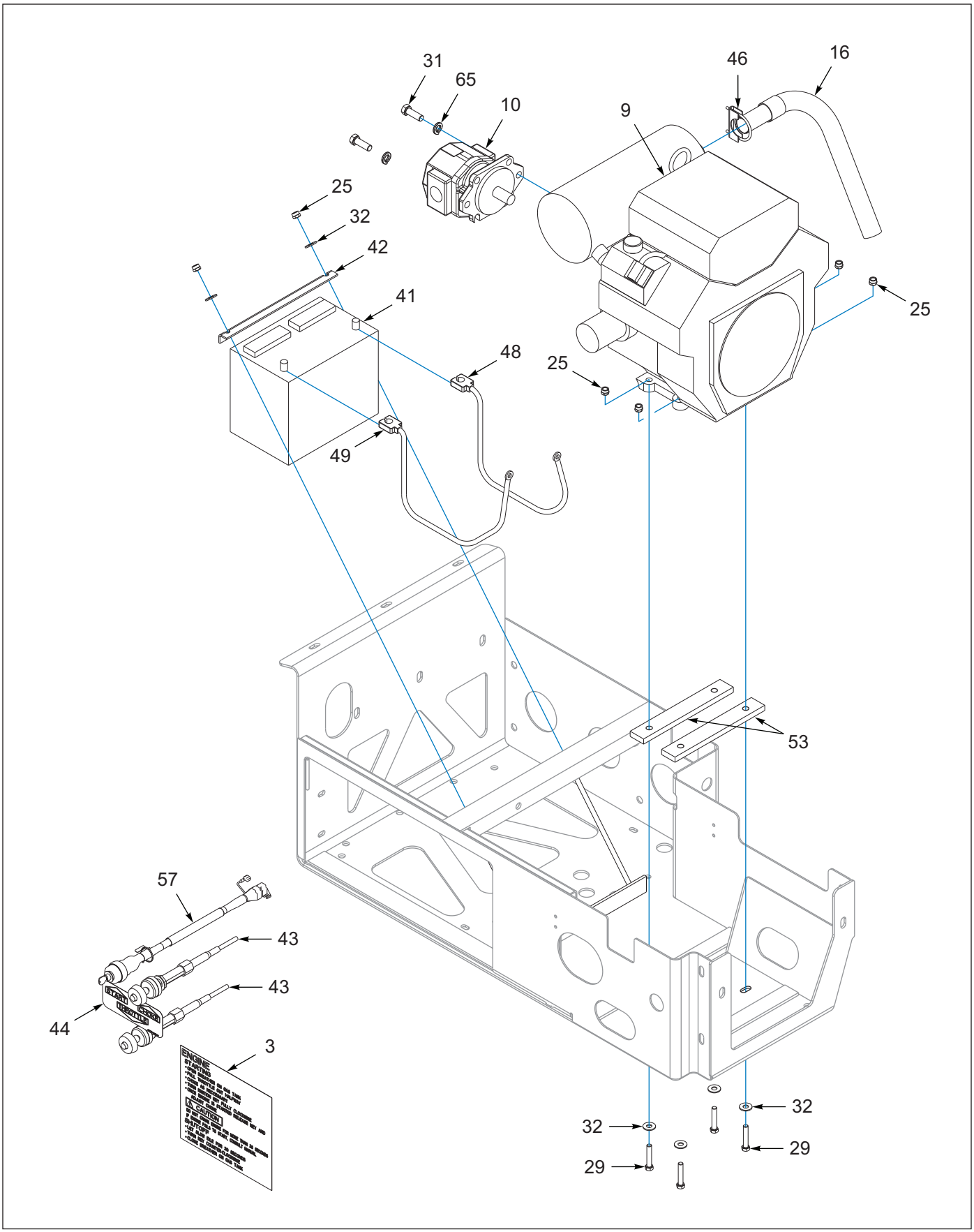


Figure 1-152: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (3 of 5)

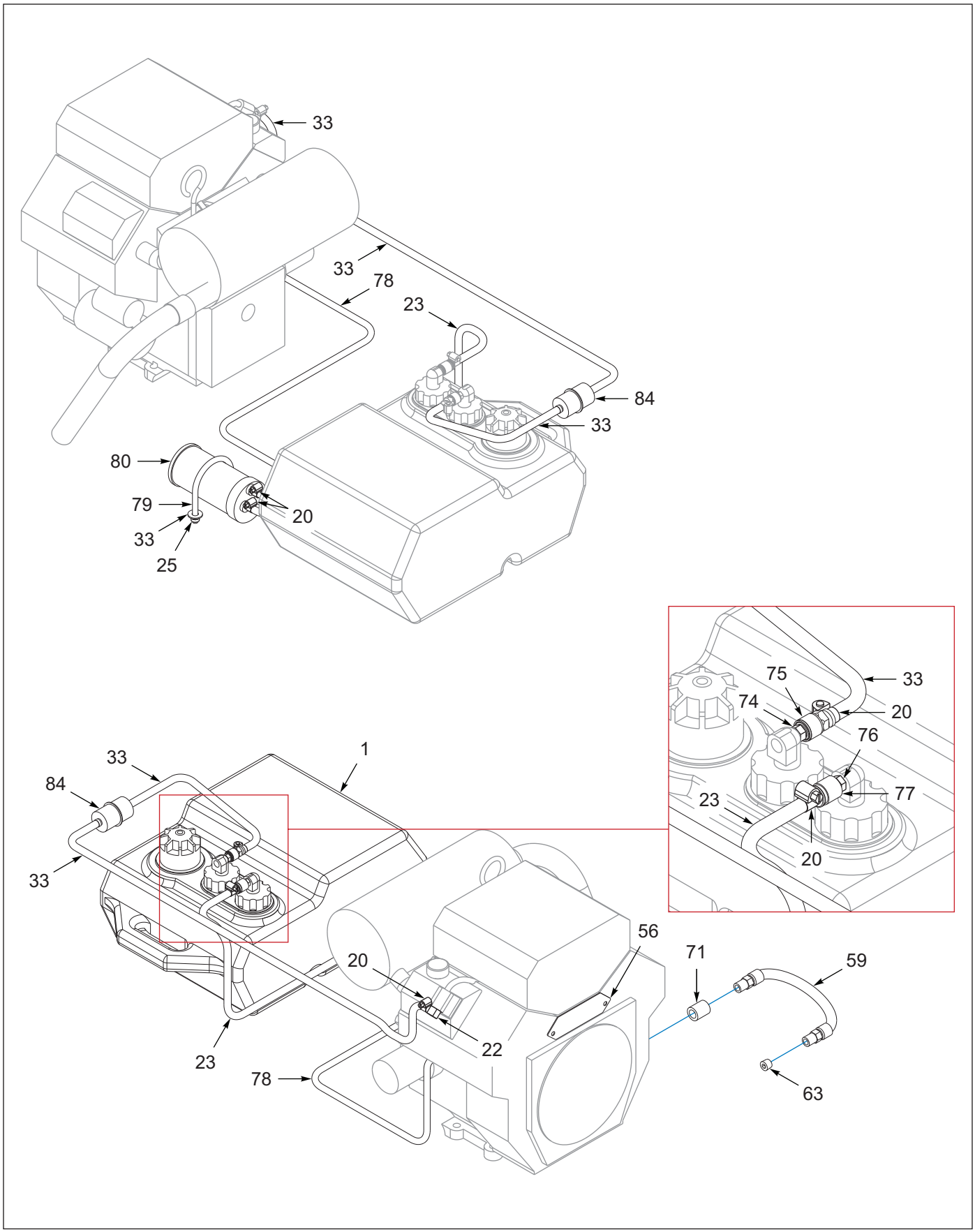


Figure 1-153: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (4 of 5)

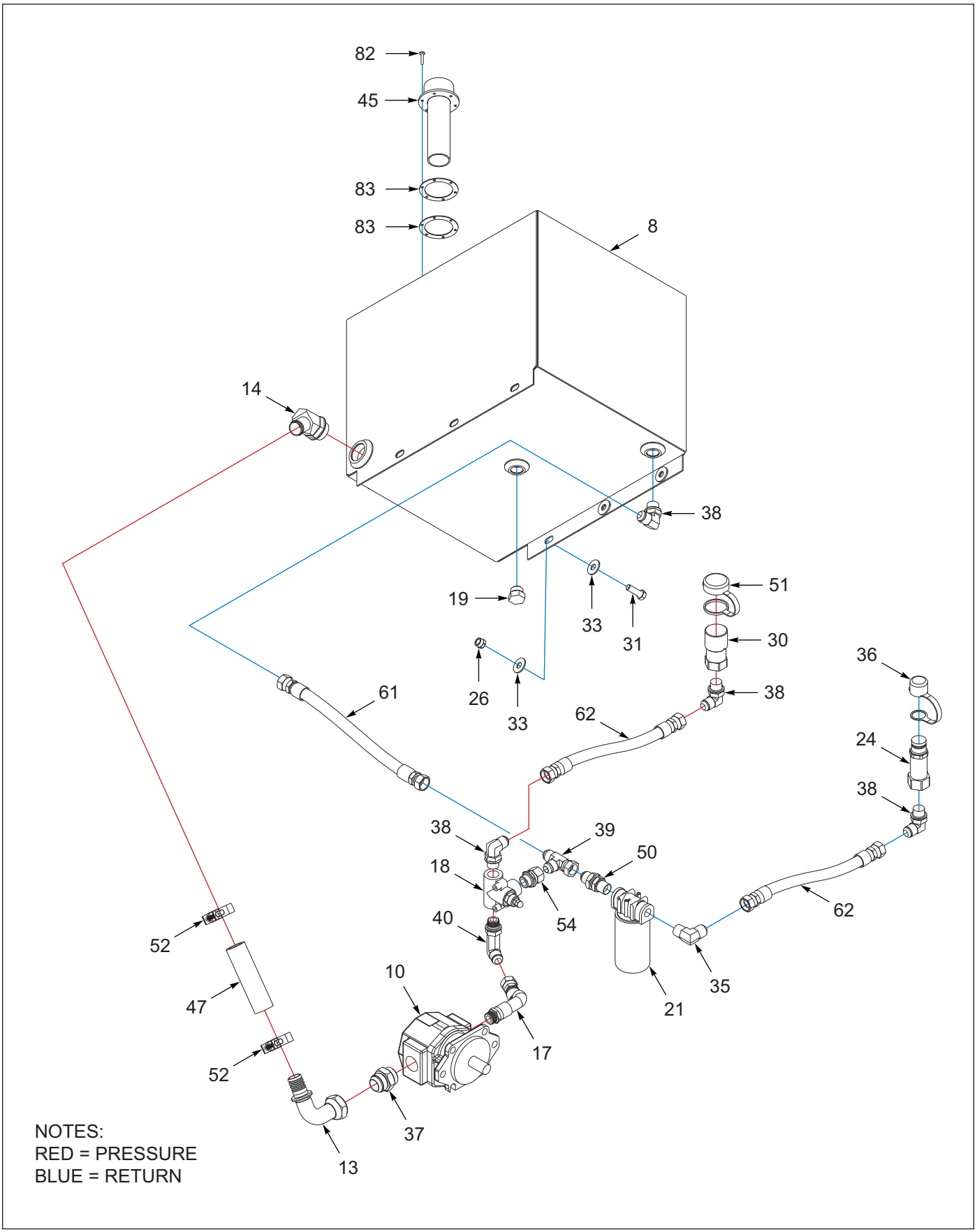


Figure 1-154: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (5 of 5)

25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012)

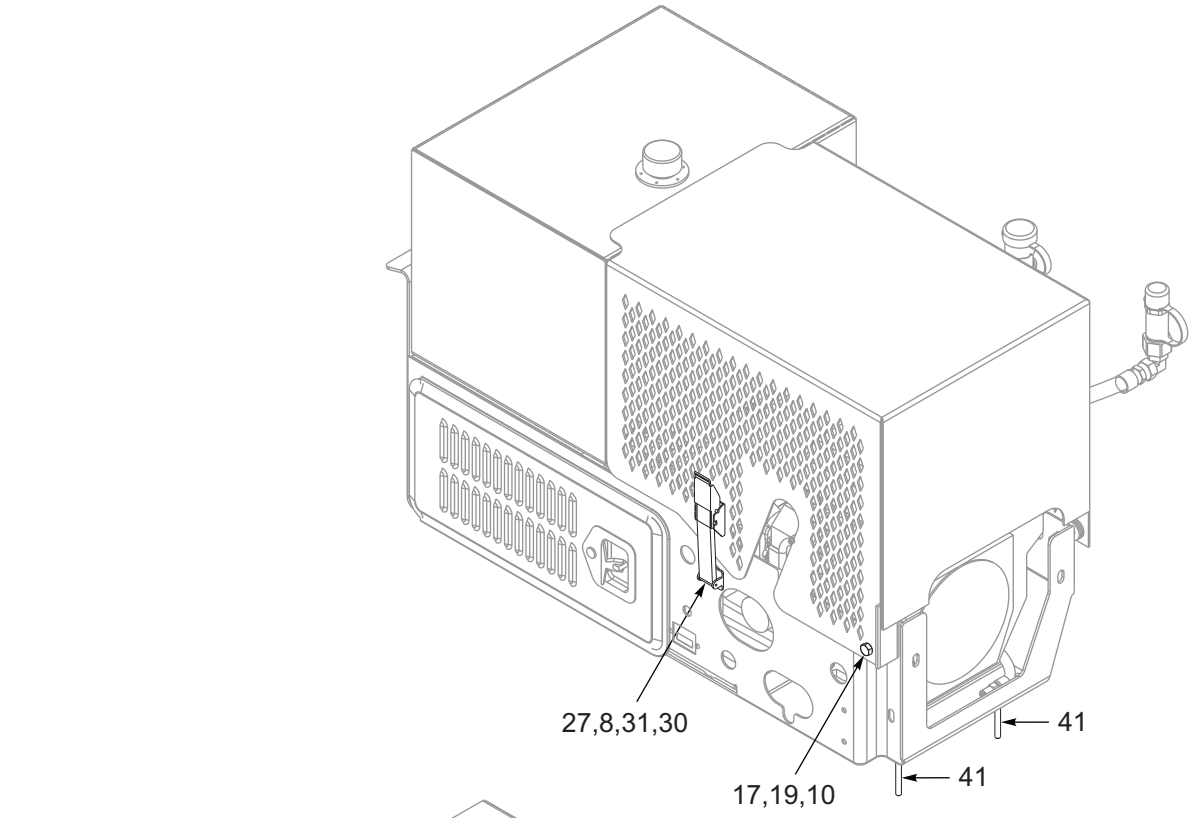
ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENG PKG 25 HP U/D 317	- -
1	- - - - -	TANK,FUEL PLSTC,6 GAL,LOW PERM **(OLD STYLE 169531-V2)**	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL,ENG PKG INSTR 600/900	1
4	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	2
5	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WLDMT,ENG PKG,25 HP	1
8	129264	HYD TANK WLDMT, 30G E/P	1
9	127813	ENGINE,KOHLER 25HP, PUMP MNT (INCLUDES ITEM 81-MUFFLER KIT)	1
10	115888	PUMP, HYDRAULIC 0.88CID GEAR	1
11	116326	HINGE,BASE MNT, COM ENG PKG	1
12	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
13	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
14	117873	FITTING,1.63-12 SAE-1 25H/B45	1
15	119206	HINGE, DOOR ENG DRV, 25HP	2
16	119445	EXHAUST EXT WLDMT 25HP E/P	1
17	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
18	120661	VALVE,HYD PRES,#12SAE,2500P	1
19	900598-12S	PLUG, O-RING BOSS #12	1
20	105-0105	CLAMP,HOSE IDEAL 6203	6
21	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
22	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
23	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
24	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022 - SILVER BODY)**	- -
24	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
25	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
26	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	12
27	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
28	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
29	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
30	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
30	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
31	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	12
32	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	9
33	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	16
34	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
35	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
36	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
36	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
37	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092)**	1
38	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	4
39	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
40	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE	1

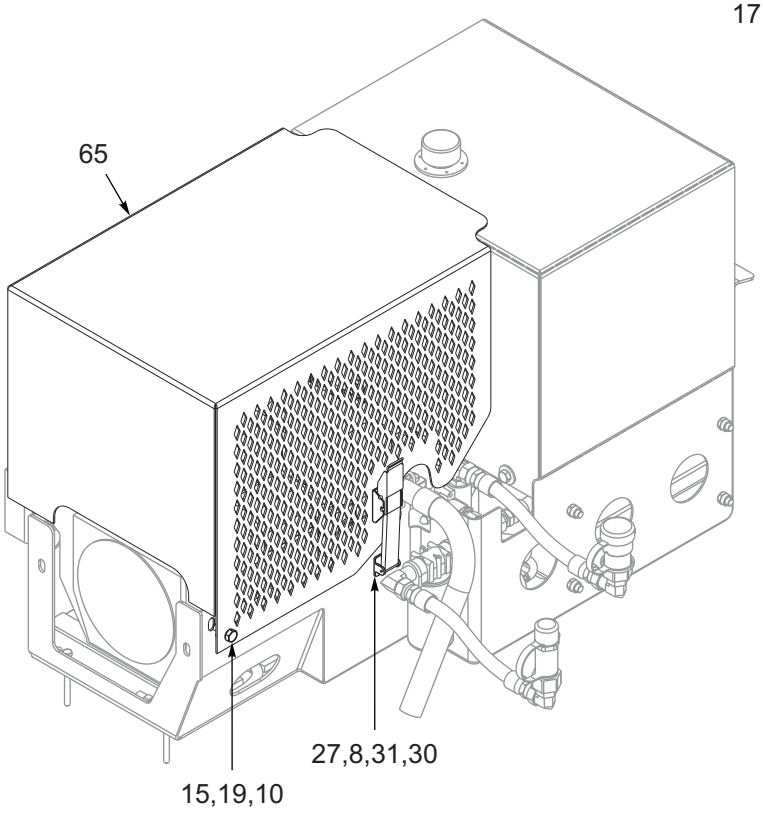
25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
41	2481X	BATTERY 12 VOLT	1
42	3-120-010124	BATTERY CLAMP BRKT	1
43	128774	CABLE, THROTTLE 40' **(200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)**	2
44	3-573-010506	DECAL,ENGINE,345A CONTROL	1
45	3-162-010001	FILLER BREATHER STRAINER ASSY	1
46	3-182-010028	CLAMP MUFFLER	1
47	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION	1
48	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
50	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
51	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
51	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
52	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
53	120659	ISOLATOR, KOHLER 25HP MOUNT	2
54	120660	ADAPTER #12-O/RFEM-12#FL M	1
55	115877	NUT HVY HEX 1/4-20 GR5	4
56	123014	PLATE, MOTOR FRONT, 25HP E/P	1
57	113544	HARNESS,ENG PKG IGN,600/900 **(BEFORE 10/01/2013)** **(SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)**	2
58	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
59	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
60	129287	COVER WLDMT U/D ENG PKG 30GAL	1
61	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
62	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
63	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
64	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
65	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
66	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	1
67	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	1
68	110-0116	SCREW RD HD CAP 10-24X3/4	8
69	110-0253	WASHER,FLAT 3/16 STD	8
70	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
71	3/8P COUPL	BLK PIPE COUPLING	1
72	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON, NOT SHOWN)**	.5
73	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
74	170109	FITTING,1/4MPT TO MALE QD,FORC	1
75	170110	FITTING,5/16BARB TO FE QD,FORC	1
76	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
77	170112	FITTING,5/16BARB TO FE QD,SUZU	1
78	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	5
79	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
80	166766	CARBON CANISTER,FUEL TANK,GAS	1
81	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
82	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
83	223220	GASKET, HYD TANK FILLER	2
84	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1
85	192744	AIR FILTER **(NOT SHOWN)**	1

25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
86	192745	OIL FILTER **(NOT SHOWN)**	1
87	192746	SPARK PLUGS **(SET OF 4, NOT SHOWN)**	1





NOT SHOWN:
#80 - OIL, ENGINE 10W-30
#93 - MUFFLER KIT
#94 - OIL FILTER
#95 - AIR FILTER
#96 - SPARK PLUGS

Figure 1-155: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (1 of 5)

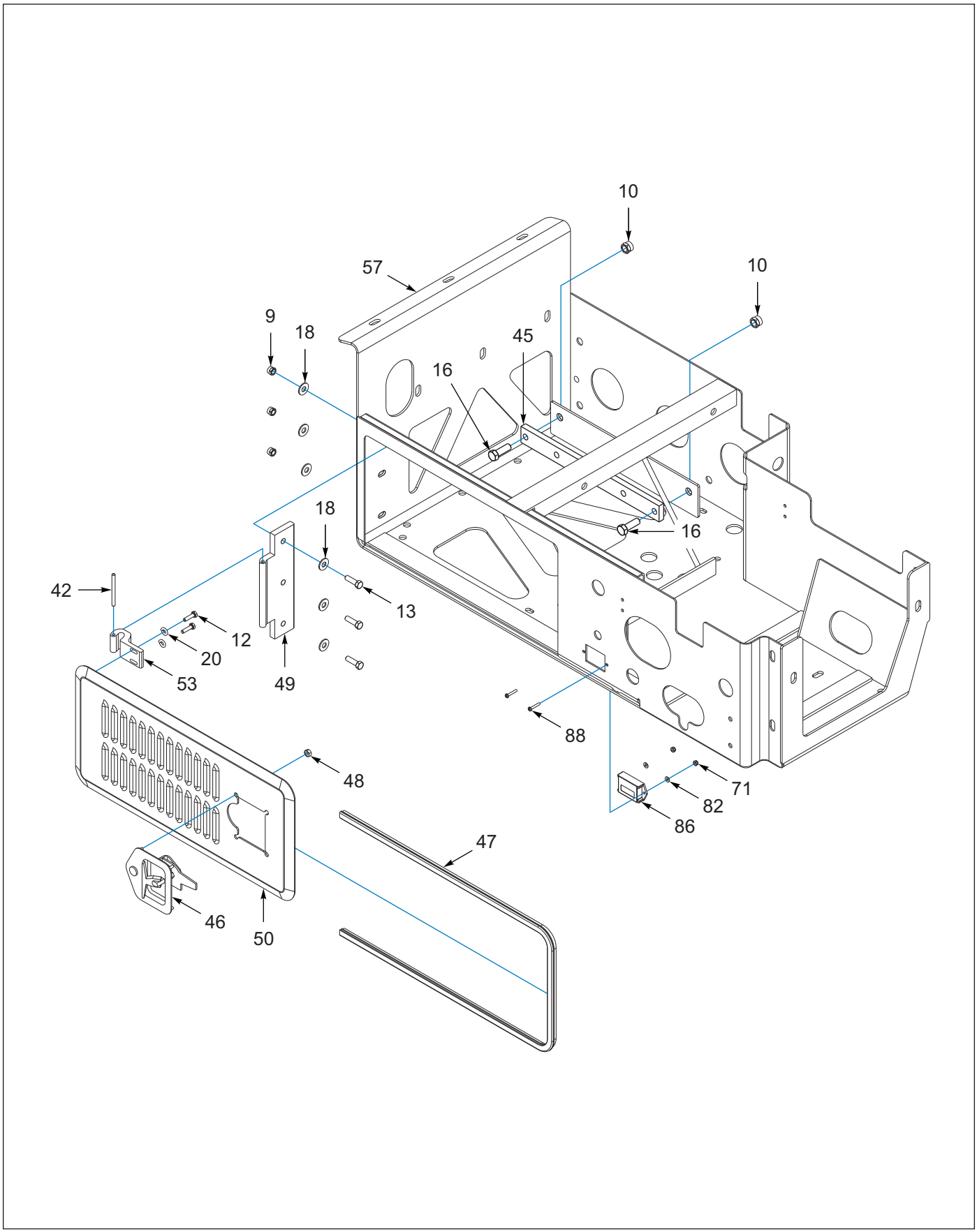


Figure 1-156: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (2 of 5)

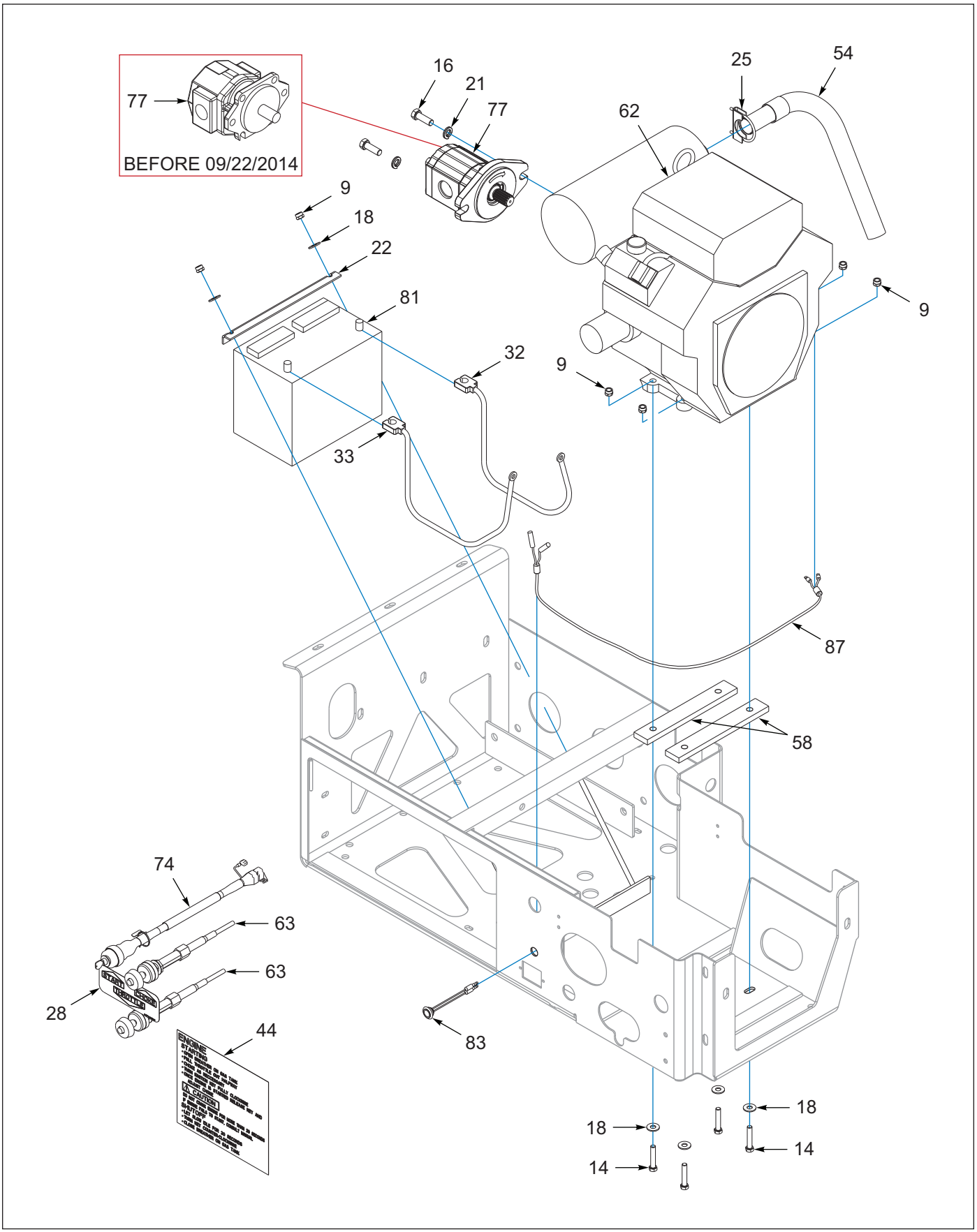


Figure 1-157: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (3 of 5)

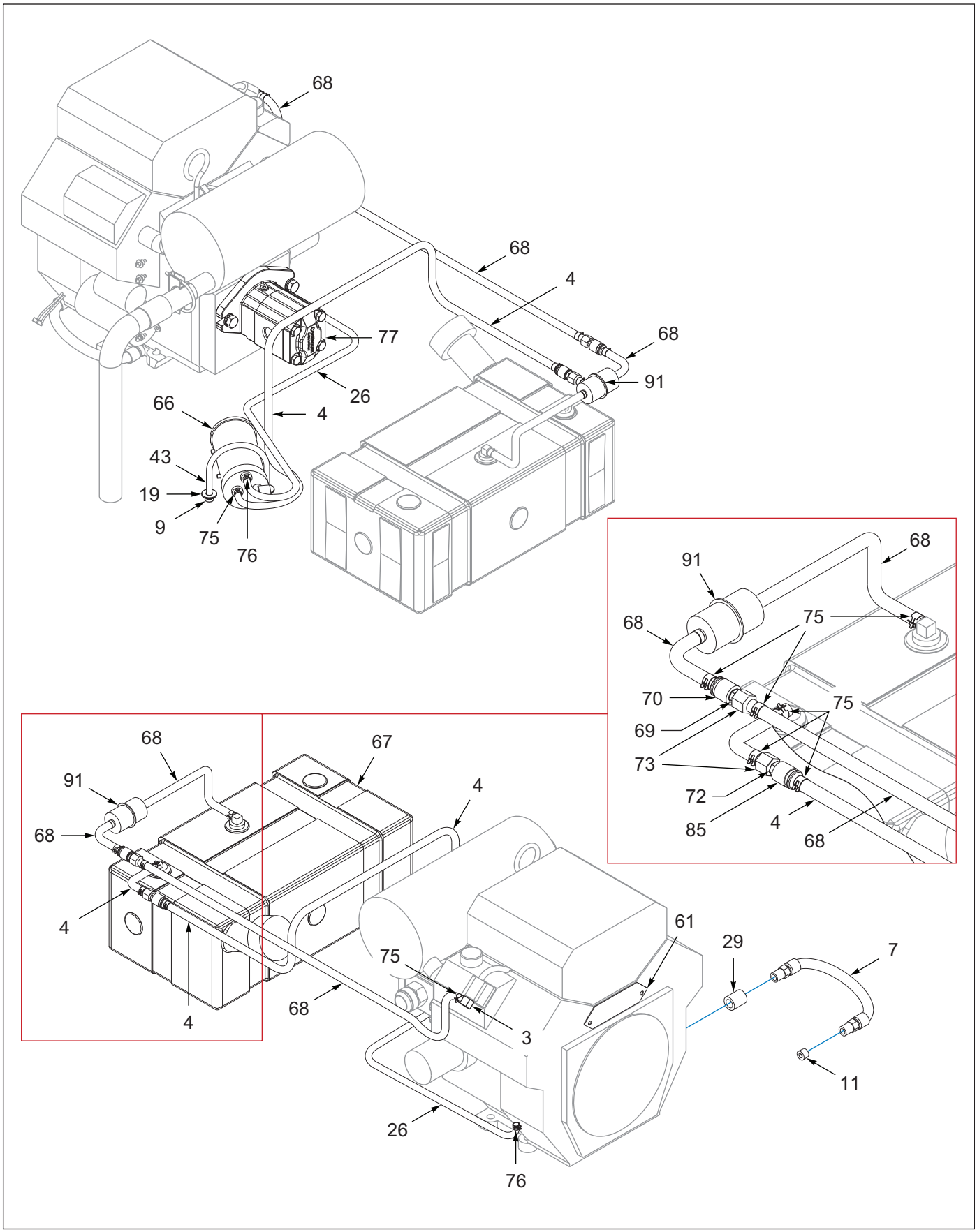


Figure 1-158: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (4 of 5)

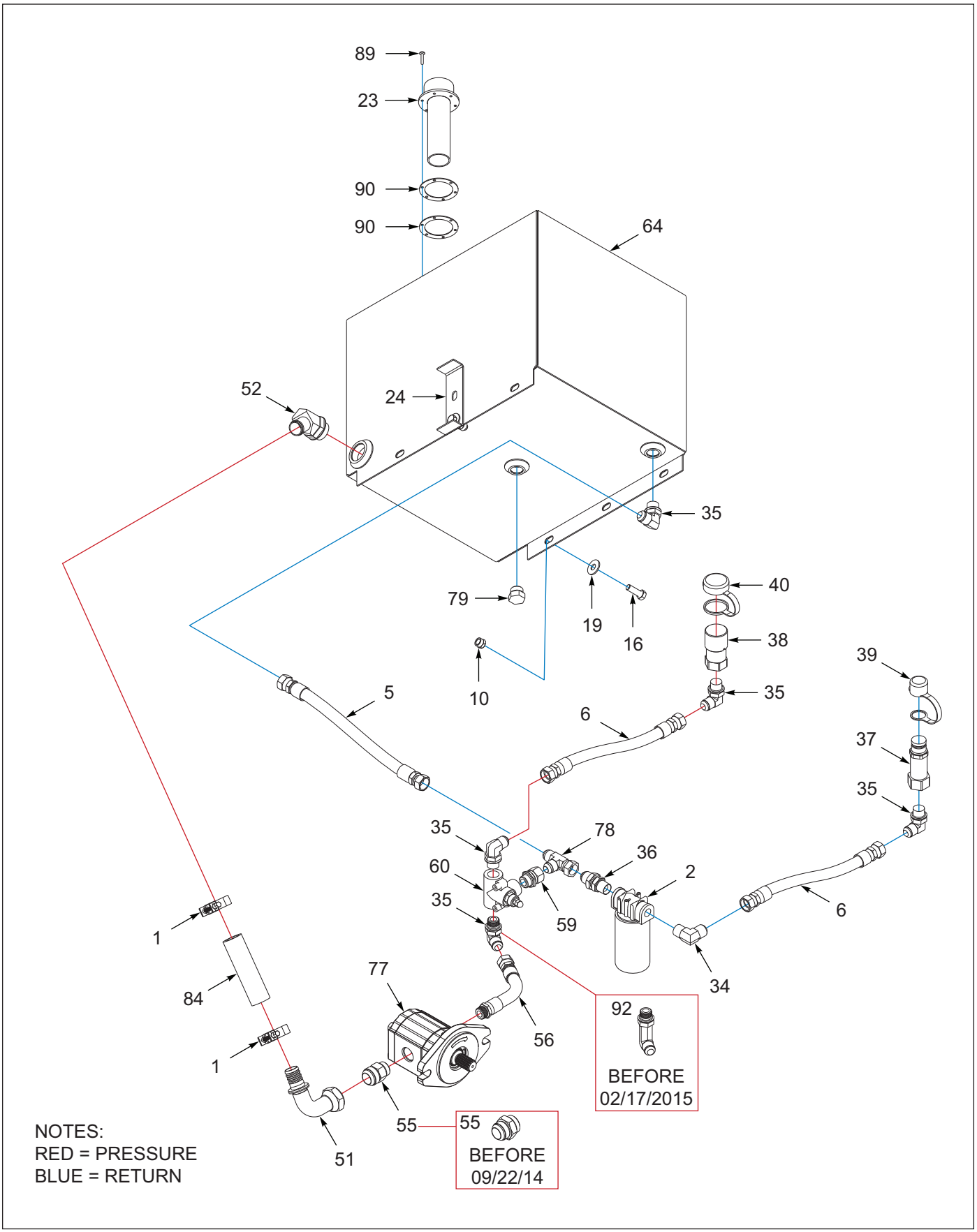


Figure 1-159: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (5 of 5)

25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENG PKG 25 HP U/D 317	- -
1	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
2	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
3	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
4	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
5	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
6	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
7	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
8	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
9	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
10	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
11	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
12	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
13	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
14	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
15	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	1
16	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
17	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	1
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	22
19	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	14
20	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
21	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
22	3-120-010124	BATTERY CLAMP BRKT	1
23	3-162-010001	FILLER BREATHER STRAINER ASSY	1
24	173887	BRACKET, ENG PACKAGE **(BEFORE 08/08/2013)**	1
24	3-181-010006	HOSE CLAMP 350 **(AFTER 08/08/2013)**	1
25	3-182-010028	CLAMP MUFFLER	1
26	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	3
27	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
28	3-573-010506	DECAL,ENGINE,345A CONTROL	1
29	3/8P COUPL	BLK PIPE COUPLING	1
30	110-0116	SCREW RD HD CAP 10-24X3/4	8
31	110-0253	WASHER,FLAT 3/16 STD	8
32	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
33	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
34	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
35	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE **(BEFORE 02/17/2015, REQ 1 EACH)** **(REPLACES 206209-12-12S, ITEM 92 AFTER 02/17/2015)**	5
36	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
37	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20)** **(BEFORE 03/01/2022 - SILVER BODY)**	- -
37	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20)** **(AFTER 03/01/2022 - BLACK BODY)**	1
38	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20)** **(BEFORE 03/01/2022)**	- -
38	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20)** **(AFTER 03/01/2022)**	1
39	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1

25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
39	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
40	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
40	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
41	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
42	108601	PIN, DOOR HINGE	2
43	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
44	113388	DECAL,ENG PKG INSTR 600/900	1
45	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
46	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
47	114815	SEAL, SPONGE RUBBER TRIM	1
48	115877	NUT HVY HEX 1/4-20 GR5	4
49	116326	HINGE,BASE MNT, COM ENG PKG	1
50	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
51	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
52	117873	FITTING,1.63-12 SAE-1 25H/B45	1
53	119206	HINGE, DOOR ENG DRV, 25HP	2
54	119445	EXHAUST EXT WLDMT 25HP E/P	1
55	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092) (BEFORE 09/22/2014)**	1
55	119553	CONNECTOR,O-RING/37FL,20-16 **(AFTER 09/22/2014)**	1
56	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
57	120654	MOUNT WLDMT,ENG PKG,25 HP	1
58	120659	ISOLATOR, KOHLER 25HP MOUNT	2
59	120660	ADAPTER #12-O/RFEM-12#FL M	1
60	120661	VALVE,HYD PRES,#12SAE,2500P	1
61	123014	PLATE, MOTOR FRONT, 25HP E/P	1
62	127813	ENGINE,KOHLER 25HP, PUMP MNT (INCLUDES ITEM 93-MUFFLER KIT)	1
63	128774	CABLE, THROTTLE 40' (200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)	2
64	129264	HYD TANK WLDMT, 30G E/P	1
65	129287	COVER WLDMT U/D ENG PKG 30GAL	1
66	166766	CARBON CANISTER,FUEL TANK,GAS	1
67	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM **(NEW STYLE)**	1
68	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
69	170109	FITTING,1/4MPT TO MALE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 72, 202225)**	- -
70	170110	FITTING,5/16BARB TO FE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 85, 202226)**	- -
71	1-512-010003-03	NUT,HX 8-32,SLF-LKG W/NYL **(AFTER 04/30/2019)**	2
72	170111	FITTING,1/4MPT TO MALE QD,SUZU **(BEFORE 10/01/2016, REQ 1 EACH)**	- -
72	202225	FITTING 1/4 MNPT/MALE QD **(REPLACES 170111 AFTER 10/01/2016)** **(REPLACES 170109, ITEM 69 AFTER 02/01/2022)**	2
73	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2

25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
74	113544	HARNESS,ENG PKG IGN,600/900 **(BEFORE 10/01/2013)**	2
		(SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)	
74	178428	SWITCH/HARNESS ASSY KOHLER UD **(AFTER 10/01/2013)**	2
		(INCLUDES 3-765-010050-SWITCH ONLY, 228958-KEY ONLY)	
75	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
76	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
77	115888	PUMP, HYDRAULIC 0.88CID GEAR **(BEFORE 09/22/2014)**	1
77	186811	PUMP HYDRAULIC GEAR 0.77CID **(AFTER 09/22/2014)**	1
78	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
79	900598-12S	PLUG, O-RING BOSS #12	1
80	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON, NOT SHOWN)**	.5
81	2481X	BATTERY 12 VOLT	1
82	1-861-010032-02	WASHER,FL #8 ZP/CD **(AFTER 04/30/2019)**	2
83	175591	LIGHT YEL LED .75 CL.MK GROTE **(AFTER 02/24/2020)**	1
84	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION **(BEFORE 01/13/2017)**	1
84	193904	HOSE, 1-1/4 X 7-1/2, SUCTION **(AFTER 01/13/2017)**	1
85	170112	FITTING,5/16BARB TO FE QD,SUZU	- -
		(BEFORE 10/01/2016, REQ 1 EACH)	
85	202226	FITTING5/16 HOSEBARB/FEMALE QD	2
		(REPLACES 170112 AFTER 10/01/2016)	
		(REPLACES 170110, ITEM 70 AFTER 02/01/2022)	
86	220977	METER HOUR/TACH DIGITIAL **(AFTER 04/30/2019)**	1
87	223219	ENG MIL EXT ADAPTER HARNESS **(AFTER 02/24/2020)**	1
88	85G816E	SCREW,PAN.HD #8-32X1 **(AFTER 04/30/2019)**	2
89	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
90	223220	GASKET, HYD TANK FILLER	2
91	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1
92	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE	1
		(BEFORE 02/17/2015, REQ 1 EACH)	
		(AFTER 02/17/2015 OBSOLETE, USE ITEM 35, 2062-12-12S)	
93	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
94	170114	OIL FILTER KOHLER CH740 **(NOT SHOWN)**	1
95	192744	AIR FILTER**(NOT SHOWN)**	1
96	192746	SPARK PLUGS **(SET OF 4, NOT SHOWN)**	1

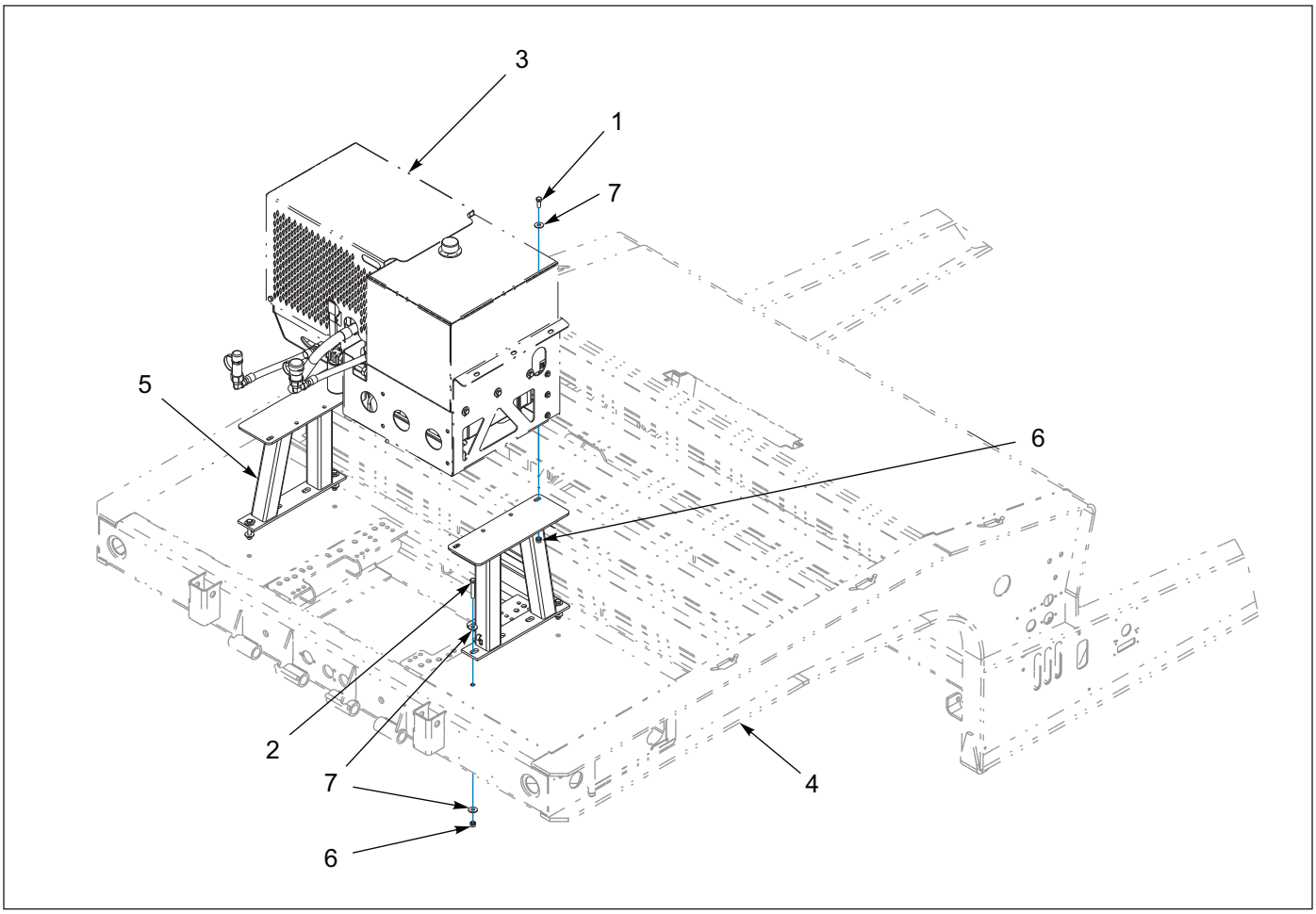


Figure 1-160: Upper Deck Engine Stand Installation

Upper Deck Engine Stand Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	136578	UPPER DECK STAND INSTALLATION	- -
1	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
2	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	4
3	- - - - -	ENGINE PACKAGE, 27 HP GAS **(SEE PAGE 1-258)**	- -
4	- - - - -	UPPER DECK FRAME WELDMENT	- -
5	134857	MOUNT WELDMENT, ENGINE PACKAGE	2
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2W	16

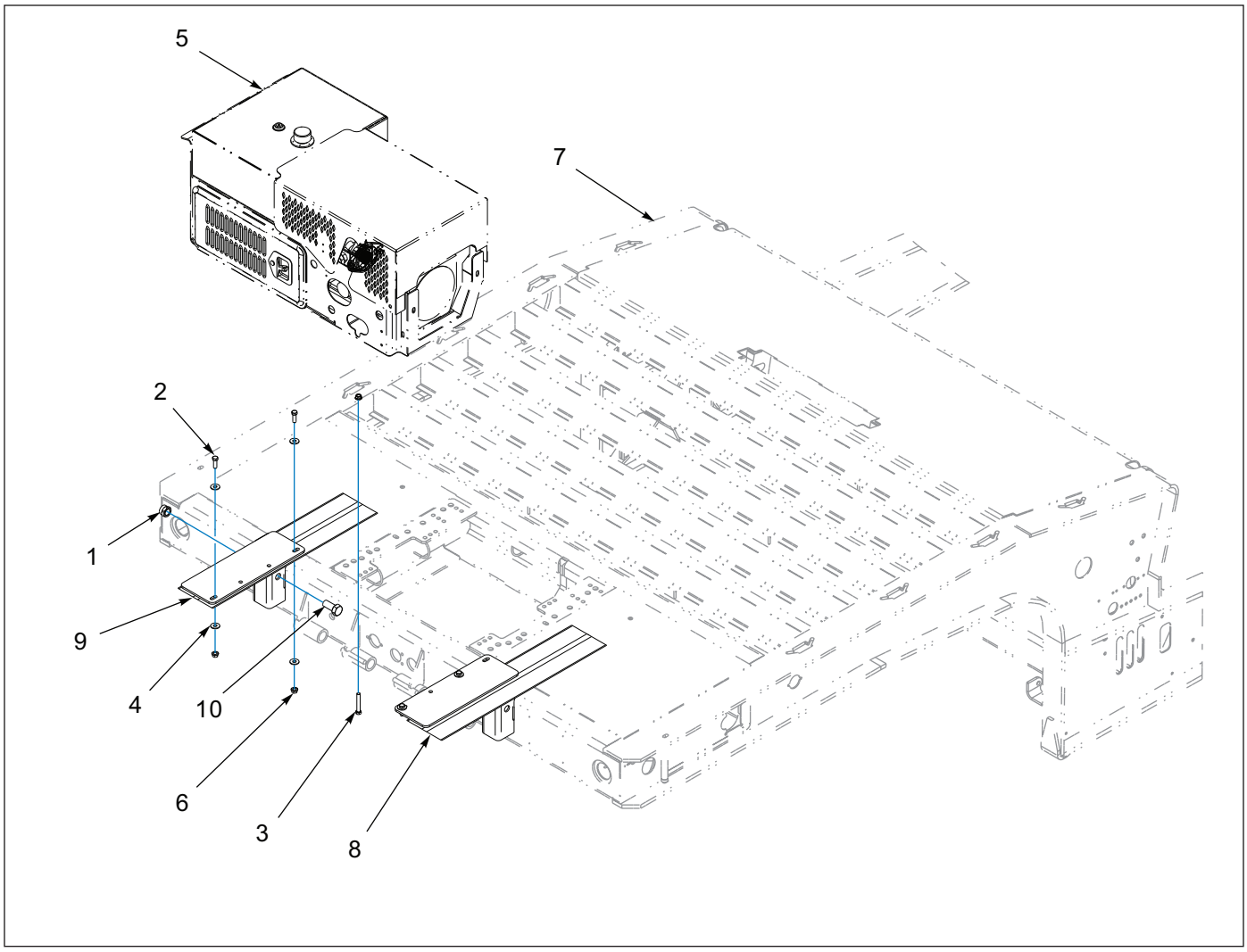


Figure 1-161: Front Mount Engine Installation

Front Mount Engine Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	136580	FRONT MOUNT ENGINE INSTALLATION	- -
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	- - - - -	ENGINE PACKAGE 27 HP U/D **(SEE PAGE 1-258)**	- -
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	- - - - -	GOOSENECK WELDMENT	- -
8	136581	MOUNT WELDMENT LH FRONT ENG PKG	1
9	136582	MOUNT WELDMENT RH FRONT ENG PKG	1
10	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

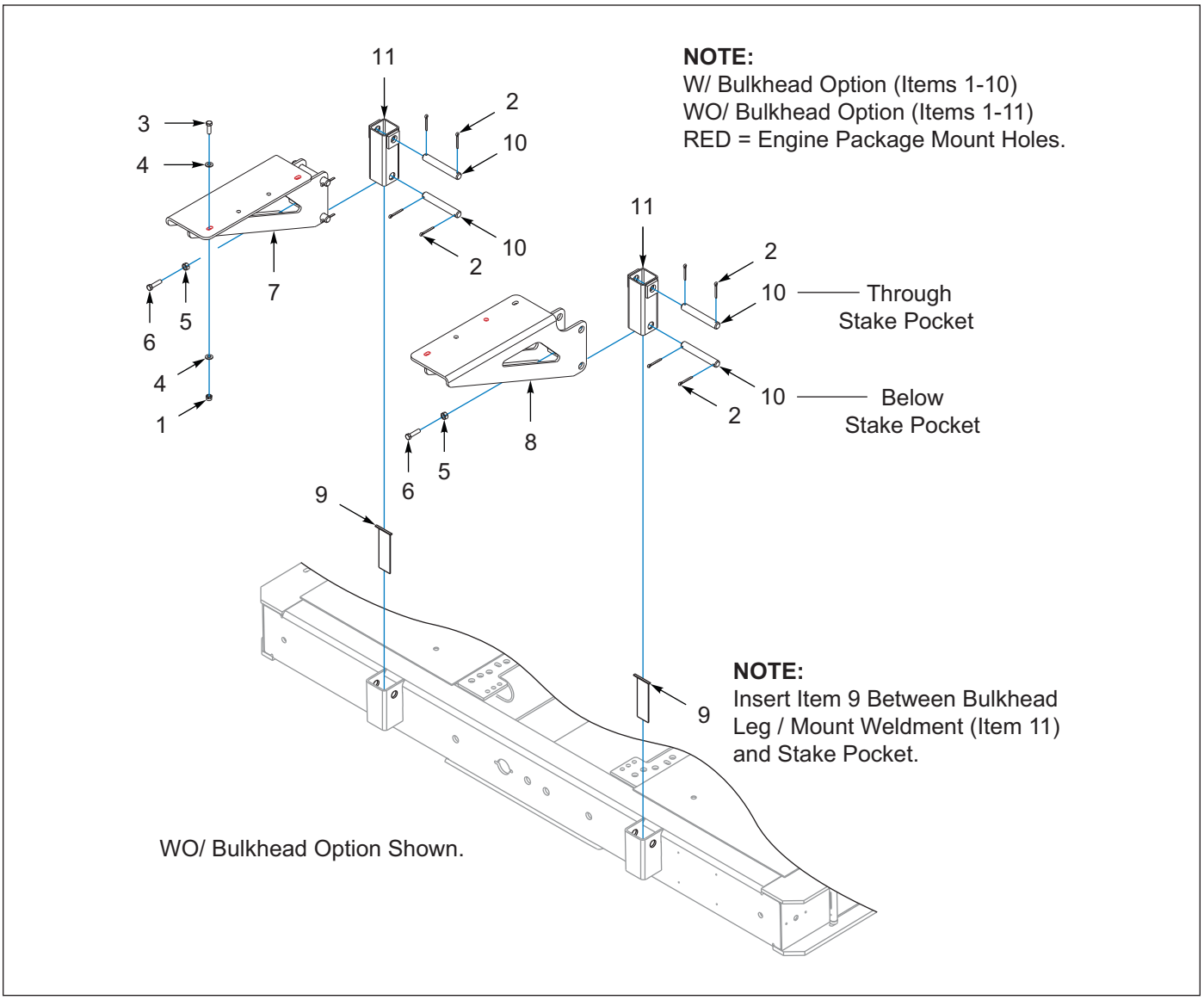


Figure 1-162: Front Mount Engine Package Extension

Front Mount Engine Package Extension

ITEM	PART NO.	DESCRIPTION	QTY.
	147471	MOUNT INSTL FRT EXT ENG PKG	- -
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
2	1-557-010362-63	PIN,COTTER 1/4X2 ZP	8
3	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
4	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	8
5	114911	NUT,HVY HEX,1/2-13UNC GR5	2
6	132773	SCREW HXCP 1/2-13X2 GR8 ZP	2
7	147468	BRACKET WLDMT RH ENG MT	1
8	147469	BRACKET WLDMT LH ENG MT	1
9	245939	FRNT ENG MNT SHIM	2
10	3-557-010380	PIN, SUPPORT BULKHEAD	4
11	3-482-010249	MOUNT WLDMT BULKHEAD **(ONLY REQUIRED WHEN NO BULKHEAD IS AVAILABLE)**	2

Table provided for general use.

NOTES:

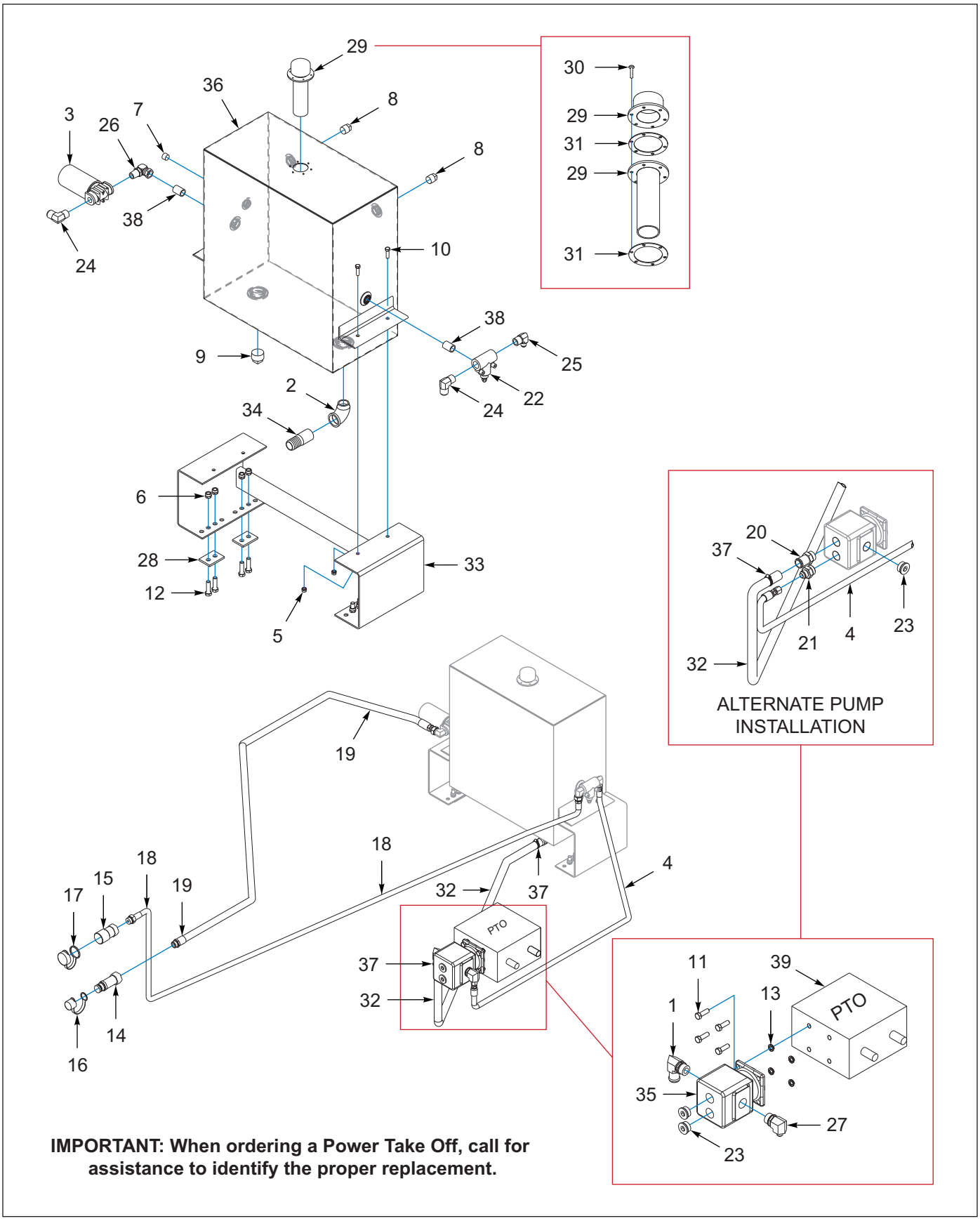


Figure 1-163: Wet Kit, Tractor Hydraulic (Before 03/01/2019)

Wet Kit, Tractor Hydraulic (BEFORE 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	WET KIT,35GAL, W/PTO, INSTALL	- -
	107499	WET KIT,30GAL,W/PTO,NOT INST	- -
	107500	WET KIT 35GAL W/O PTO NOT INS	- -
1	1-007-010006	90 EL 1-5/16 O-RING-1-1/4 HOS	1
2	1-1/4ST ELL	PIPE ELBOW BLK 90 ST	1
3	1-295-010001	FILTER, RETURN LINE **(1-295-010002 FILTER ONLY)**	1
4	1-397-010301100	HOSE ASSY,1/2X100 SAE 37 STR	1
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
7	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
8	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	2
9	1-560-010002-07	PLUG,PIPE, 1-1/4X11-1/2NPTF	1
10	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
11	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
12	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
13	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
14	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022 - SILVER BODY)**	- -
14	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
15	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
15	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
16	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
16	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
17	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
17	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
18	106759	HOSE 1/2X164,1-1/16O-RG 12FJI	1
19	106760	HOSE 3/4X164 1-1/16O-RG 12SAE	1
20	107513	ADAPTER #16 O-RING X 1-1/4HOS	1
21	12-16 070120	ADAPTER,#12 TUBE/ #16 O-RING	1
22	125130	RD12D HYD BY PASS SRDD	1
23	157330	PLUG,, #16 ORB HEX	2
24	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	2
25	2024-12-8S	ELBOW,90,#12NPTX#8 JIC	1
26	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	1
27	2062-16-8S	ADAPTER 90 1 BOSSX1/2 37	1
28	3-120-010461	BRACKET,HYD TANK SUPPORT	4
29	3-162-010001	FILLER BREATHER STRAINER ASSY **(INCLUDES ITEM 30-31)**	1
30	1-656-010003051	SCREW,RH HD MACH 10-24X3/4 **(INCLUDED WITH ITEM 29)**	6
31	223220	GASKET, HYD TANK FILLER **(INCLUDED WITH ITEM 29)**	2
32	3-399-010001	HOSE 1-1/4 SUCTION	8
33	3-482-010503	MOUNT WLDMT, HYD TANK 30GAL	1
34	3-561-010001	HOSE BARB 1-1/4 NPT	1
35	3-591-010001	HYDRAULIC GEAR PUMP **(USES SEAL KIT 3911802119)**	1
36	3-786-010043	TANK WLDMT, 30 GAL **(ITEM 29 NOT INCLUDED)**	1
37	6828	IDEAL HOSE CLAMP2.25MAX-1.3MI	2
38	C3069X12	NIPPLE HYD 3/4 MPT	2

Wet Kit, Tractor Hydraulic (BEFORE 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
39	- - - - -	POWER TAKE OFF **(CALL FOR ASSISTANCE)**	1

Table provided for general use.

NOTES:

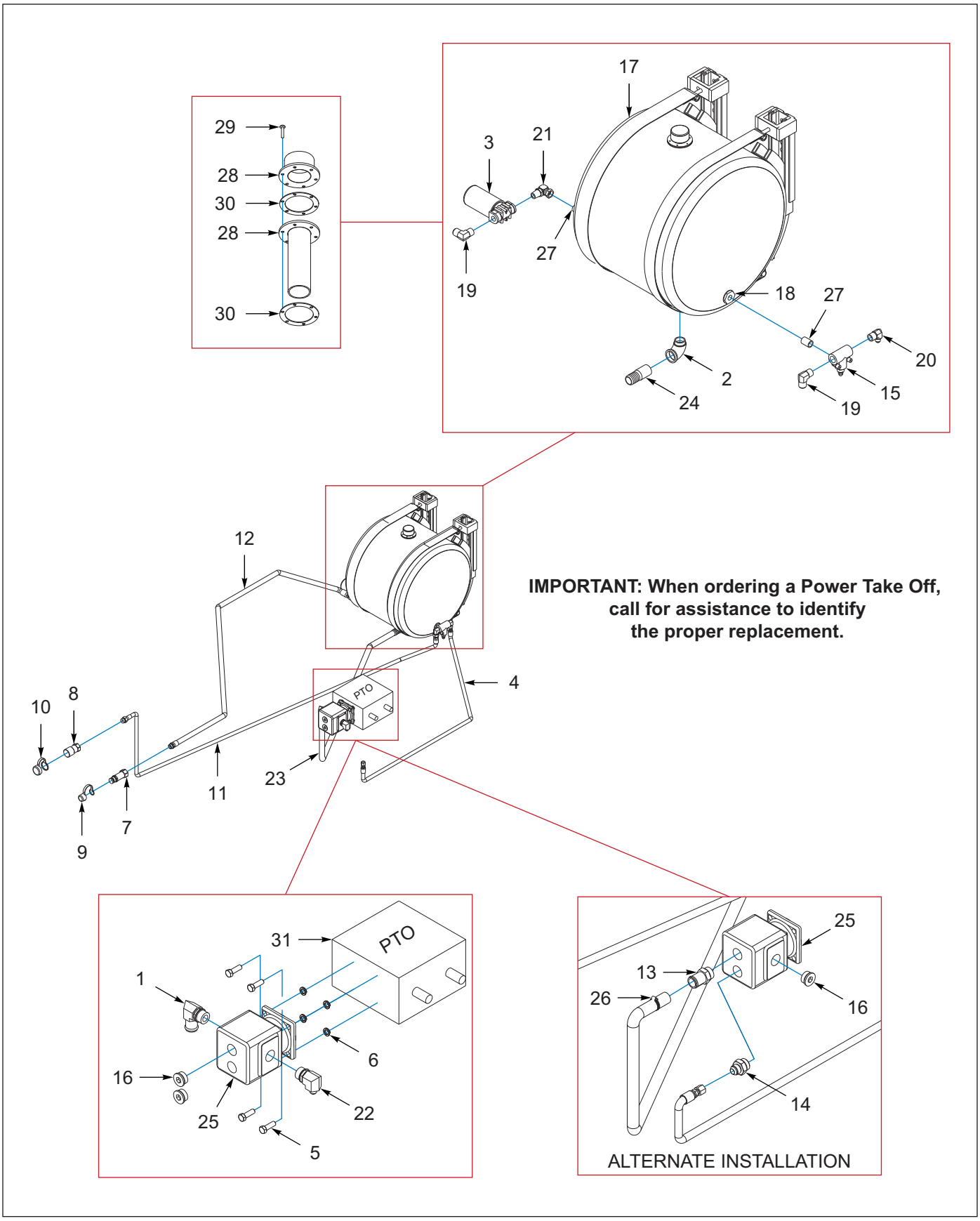


Figure 1-164: Wet Kit, Tractor Hydraulic (After 03/01/2019)

Wet Kit, Tractor Hydraulic (AFTER 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	WET KIT,35GAL, W/PTO, INSTALL **(STEEL TANK)**	- -
	107499	WET KIT,35GAL,W/PTO,NOT INST **(STEEL TANK)**	- -
	107500	WET KIT 35GAL W/O PTO NOT INS **(STEEL TANK)**	- -
	220732	WET KIT, ALUM, 35GAL **(ALUMINUM TANK)**	- -
	240507	WET KIT 35GAL ALUM W/PTO INSTL **(ALUMINUM TANK)**	--
1	1-007-010006	90 EL 1-5/16 O-RING-1-1/4 HOS	1
2	1-1/4ST ELL	PIPE ELBOW BLK 90 ST	1
3	1-295-010001	FILTER, RETURN LINE **(1-295-010002 FILTER ONLY)**	1
4	1-397-010301100	HOSE ASSY,1/2X100 SAE 37 STR	1
5	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
6	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
7	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022 - SILVER BODY)**	- -
7	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022 - BLACK BODY)**	1
8	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 1-20) (BEFORE 03/01/2022)**	- -
8	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 1-20) (AFTER 03/01/2022)**	1
9	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
9	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
10	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
10	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
11	106759	HOSE 1/2X164,1-1/16O-RG 12FJI	1
12	106760	HOSE 3/4X164 1-1/16O-RG 12SAE	1
13	107513	ADAPTER #16 O-RING X 1-1/4HOS	1
14	12-16 070120	ADAPTER,#12 TUBE/ #16 O-RING	1
15	125130	RD12D HYD BY PASS SRDD	1
16	157330	PLUG,, #16 ORB HEX	2
17	168193	HYDRAULIC TANK 35GAL STD	1
18	20-12 140140	REDUCER STR #20PIPE X#12 PIPE **(STEEL TANK)**	2
18	166735	HYD TANK ALUM 35GAL POLISHED **(ALUMINUM TANK)**	
19	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	2
20	2024-12-8S	ELBOW,90,#12NPTX#8 JIC	1
21	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	1
22	2062-16-8S	ADAPTER 90 1 BOSSX1/2 37	1
23	3-399-010001	HOSE 1-1/4 SUCTION	8
24	3-561-010001	HOSE BARB 1-1/4 NPT	1
25	3-591-010001	HYDRAULIC GEAR PUMP	1
26	6828	IDEAL HOSE CLAMP2.25MAX-1.3MI	2
27	C3069X12	NIPPLE HYD 3/4 MPT	2
28	3-162-010001	FILLER BREATHER STRAINER ASSY **(INCLUDES ITEM 30-31)**	1
29	1-656-010003051	SCREW,RH HD MACH 10-24X3/4 **(INCLUDED WITH ITEM 29)**	6
30	223220	GASKET, HYD TANK FILLER **(INCLUDED WITH ITEM 29)**	2
31	- - - - -	POWER TAKE OFF (**CALL FOR ASSISTANCE)**	1

Electrical Options

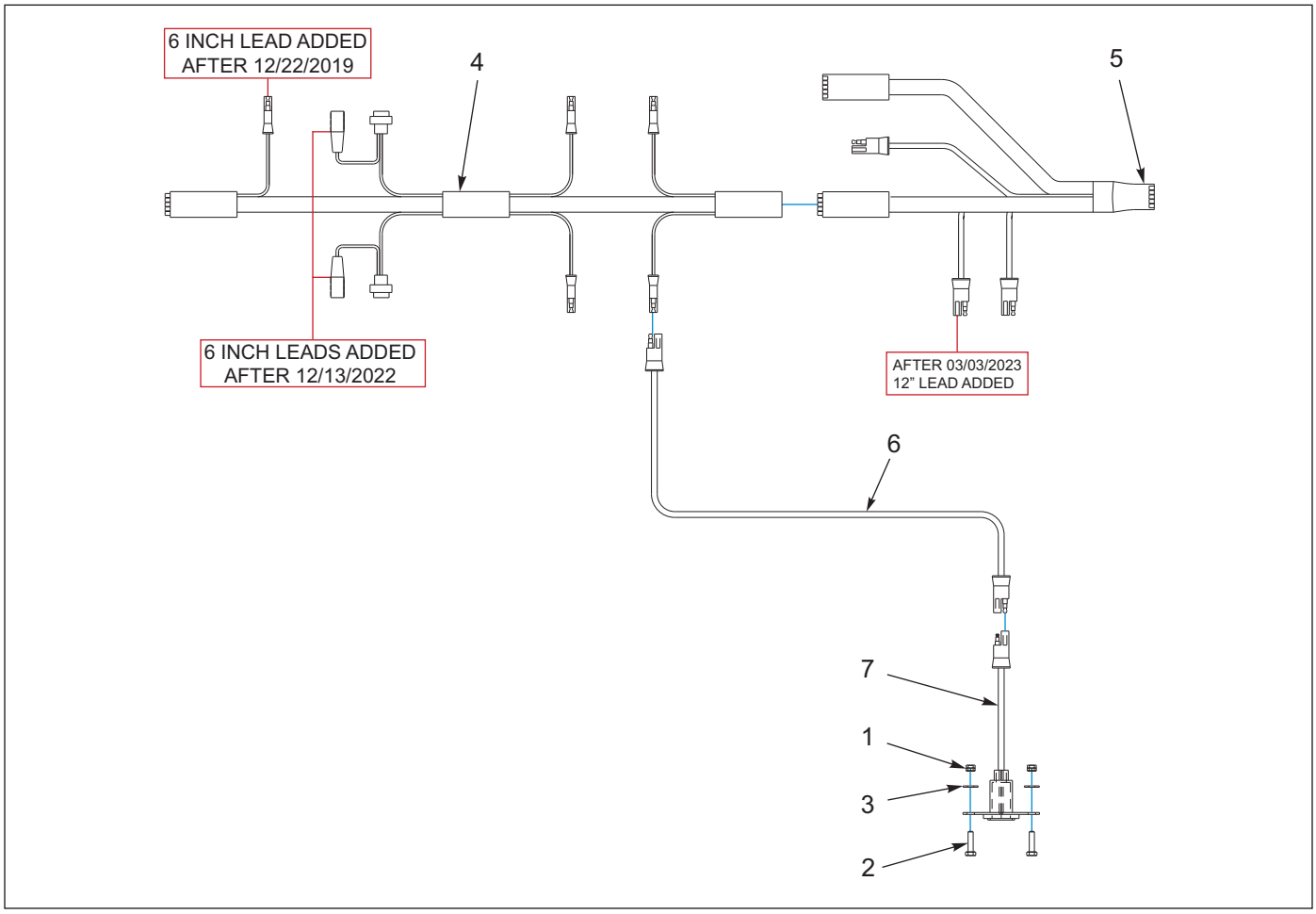


Figure 1-165: Rear Side Electrical Outlet

Rear Side Electrical Outlet

ITEM	PART NO.	DESCRIPTION	QTY.
	145538	ELECTRICAL OUTLET, REAR SIDE	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143102	HARNESS, BED MAIN GROTE	REF
5	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	REF
6	150111	HARNESS 300"	1
7	150116	HARNESS/RECEPTACLE ASSEMBLY	1

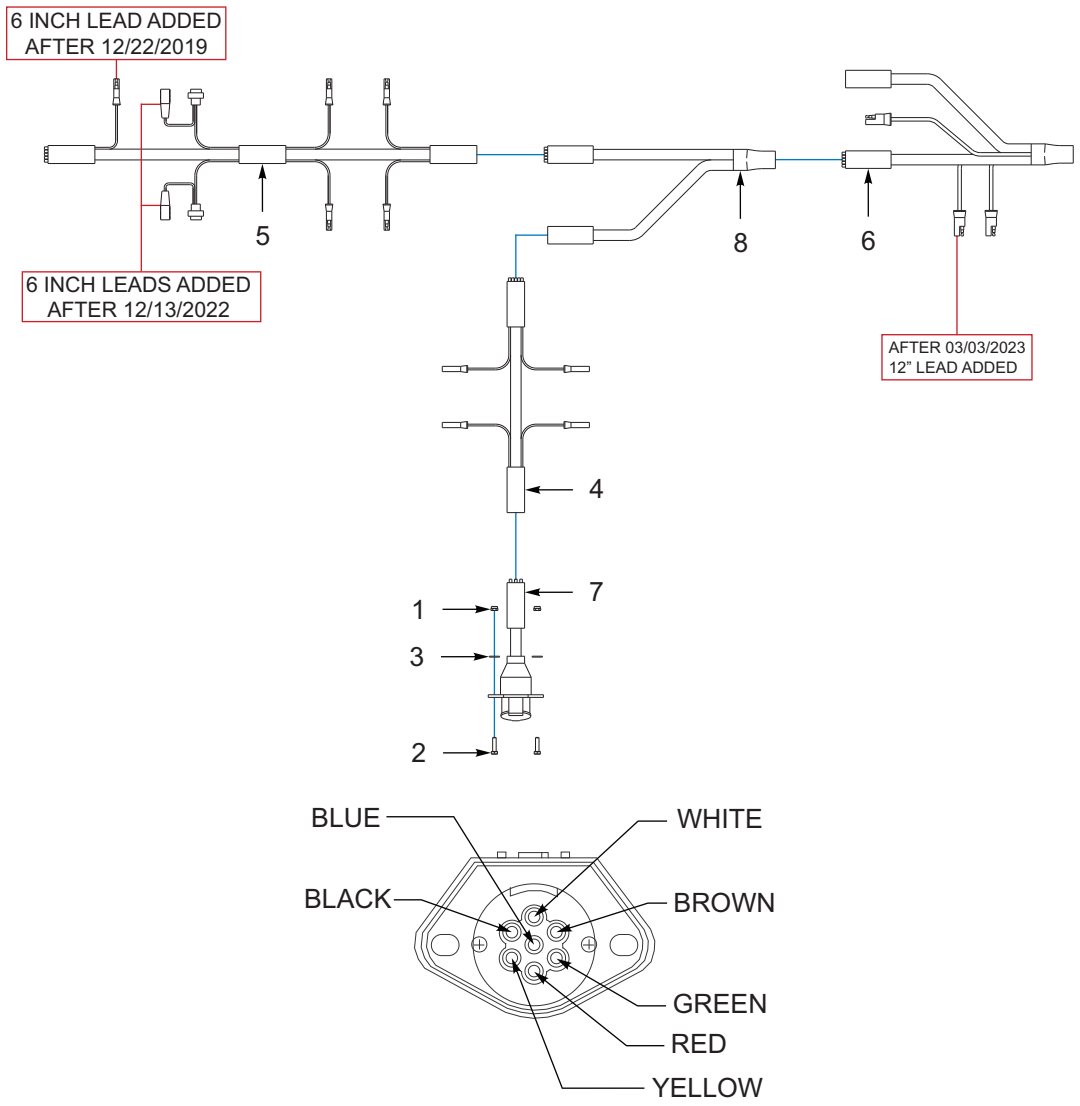


Figure 1-166: 7-Way Electrical Connector

7-Way Electrical Connector

ITEM	PART NO.	DESCRIPTION	QTY.
	148585	7-WAY ELECTRICAL INSTALLATION	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143101	HARNESS, FRONT MAIN	1
5	143102	HARNESS, BED MAIN	- -
6	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	- -
7	146897	HARNESS, 7-WAY RECEPTACLE MAIN	1
8	146929	HARNESS, Y SPLITTER	1

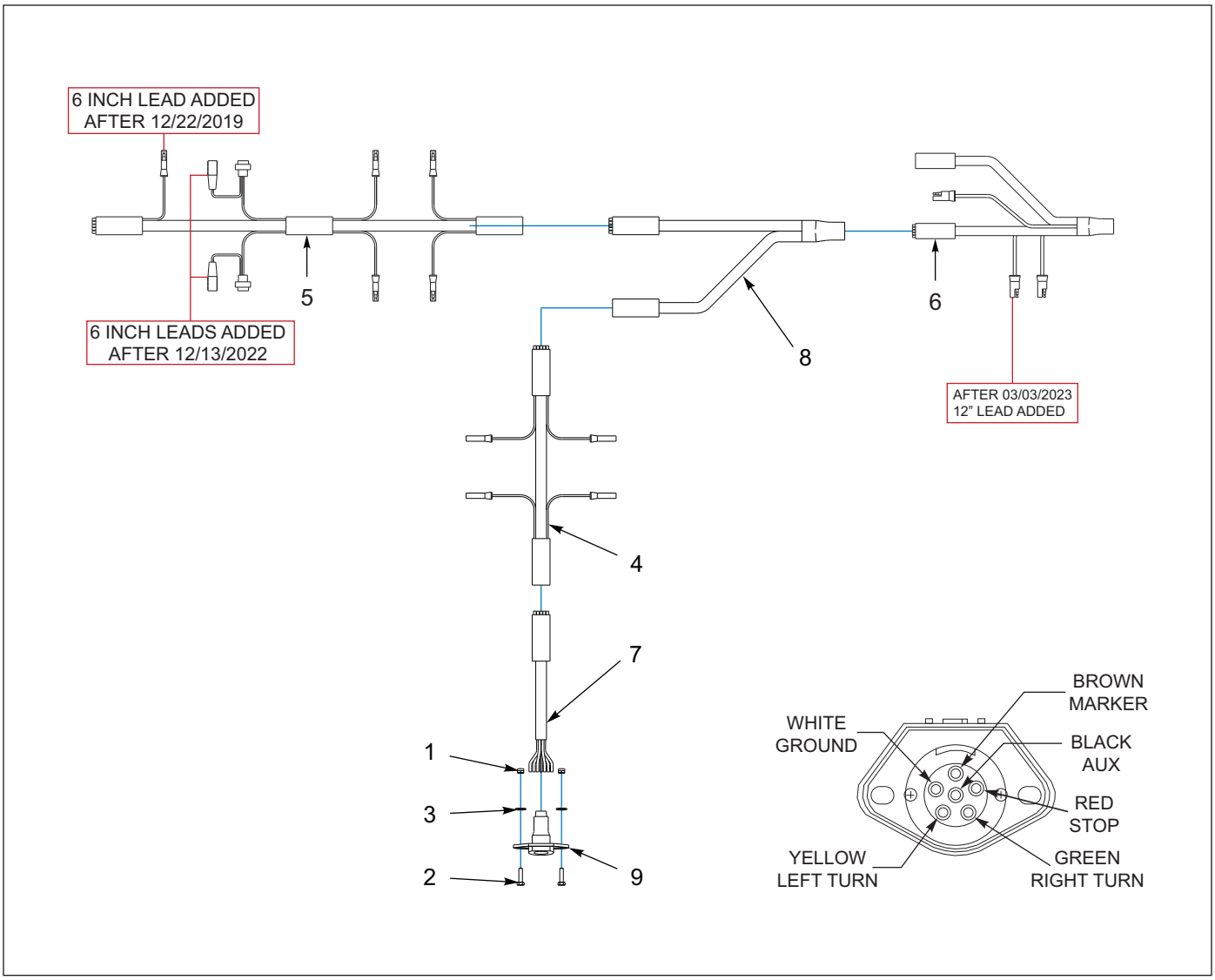


Figure 1-167: 6-Way Electrical Connector

6-Way Electrical Connector

ITEM	PART NO.	DESCRIPTION	QTY.
	164588	6-WAY ELECTRICAL INSTALLATION	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143101	HARNESS, FRONT MAIN	1
5	143102	HARNESS, BED MAIN	- -
6	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	- -
7	143166	HARNESS, EXT 48"	1
8	146929	HARNESS, Y SPLITTER	1
9	3-203-010025	CONNECTOR, ELECTRICAL 6-WAY	1

Table provided for general use.

NOTES:

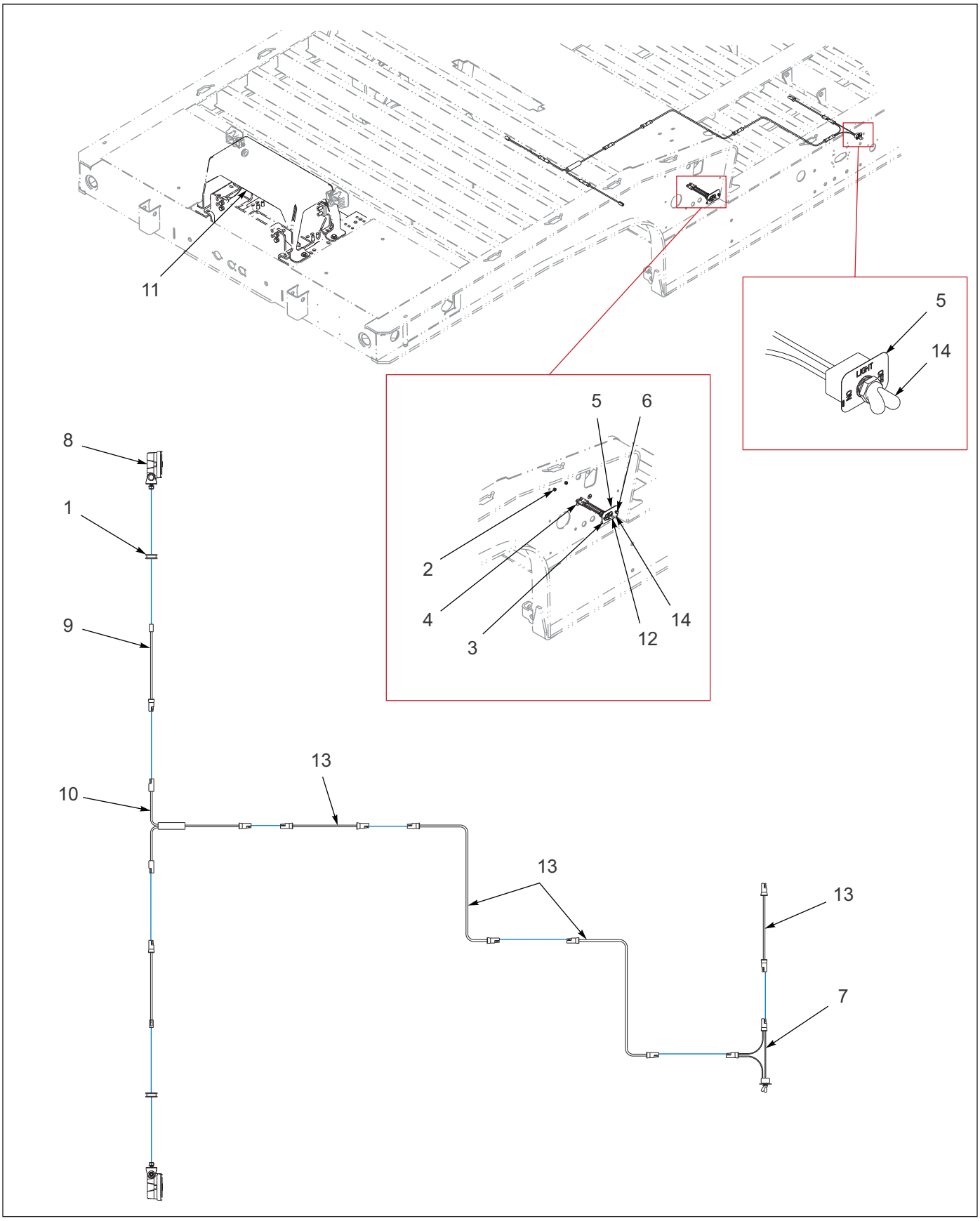


Figure 1-168: Winch Work Light

Winch Work Light

ITEM	PART NO.	DESCRIPTION	QTY.
	171168	WINCH WORK LIGHT INSTALLATION	- -
1	1-343-010001	GROMMET	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
4	1-861-010032-09	WASHER, FLAT 5/16W	2
5	130116	DECAL, ON/OFF LIGHT	1
6	137987	MOUNT, ELECTRICAL SWITCH	1
7	150117	TOGGLE SWITCH SEALED SPST	1
8	163996	LIGHT LED WHITE FLOOD LAMP	2
9	164052	HARNESS, 60” BRANCH WORK LIGHT	2
10	169853	HARNESS, JUMPER T-POWER	1
11	- - - - -	12/20K WINCH GUARD INSTALLATION	REF
12	174043	DECAL, WINCH HI/LO	1
13	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4
14	81264	RUBBER BOOT FOR ELECT SWITCH	2

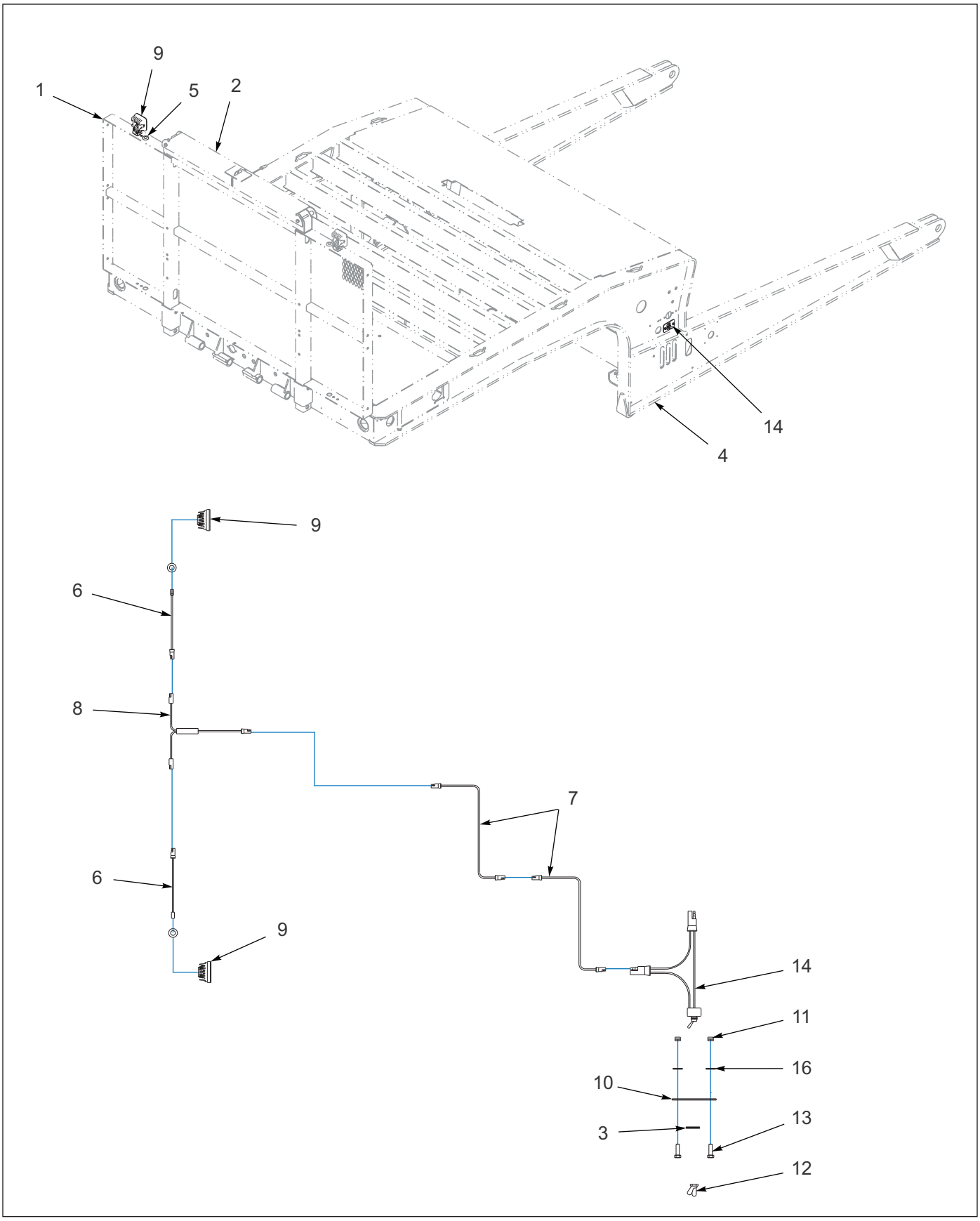


Figure 1-169: Bulkhead Work Light

Bulkhead Work Light

ITEM	PART NO.	DESCRIPTION	QTY.	
	156510	WORK LIGHT ASSEMBLY, BULKHEAD **(OPTION)**	- -	- -
	169927	WORK LIGHT ASSEMBLY, BULKHEAD HD **(OPTION)**	- -	- -
1	- - - - -	BULKHEAD WELDMENT	REF	REF
2	B7-141-003	CHAIN RACK INSTALLATION	REF	REF
3	130116	DECAL, ON/OFF LIGHT	1	1
4	- - - - -	GOOSENECK WELDMENT	REF	REF
5	1-343-010006	GROMMET	2	2
6	164052	HARNESS, 60” BRANCH WORK LIGHT	2	2
7	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	2	3
8	169853	HARNESS, JUMPER T-POWER	1	1
9	163996	LIGHT LED WHITE FLOOD LAMP	2	2
10	137987	MOUNT, ELECTRICAL SWITCH	1	1
11	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2	2
12	81264	RUBBER BOOT FOR ELECT SWITCH	1	1
13	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2	2
14	150117	TOGGLE SWITCH SEALED SPST	1	1
15	1-822-010002	TRIM LOCK 3/16 **(NOT SHOWN)**	AR	AR
16	1-861-010032-09	WASHER, FLAT 5/16W	2	2

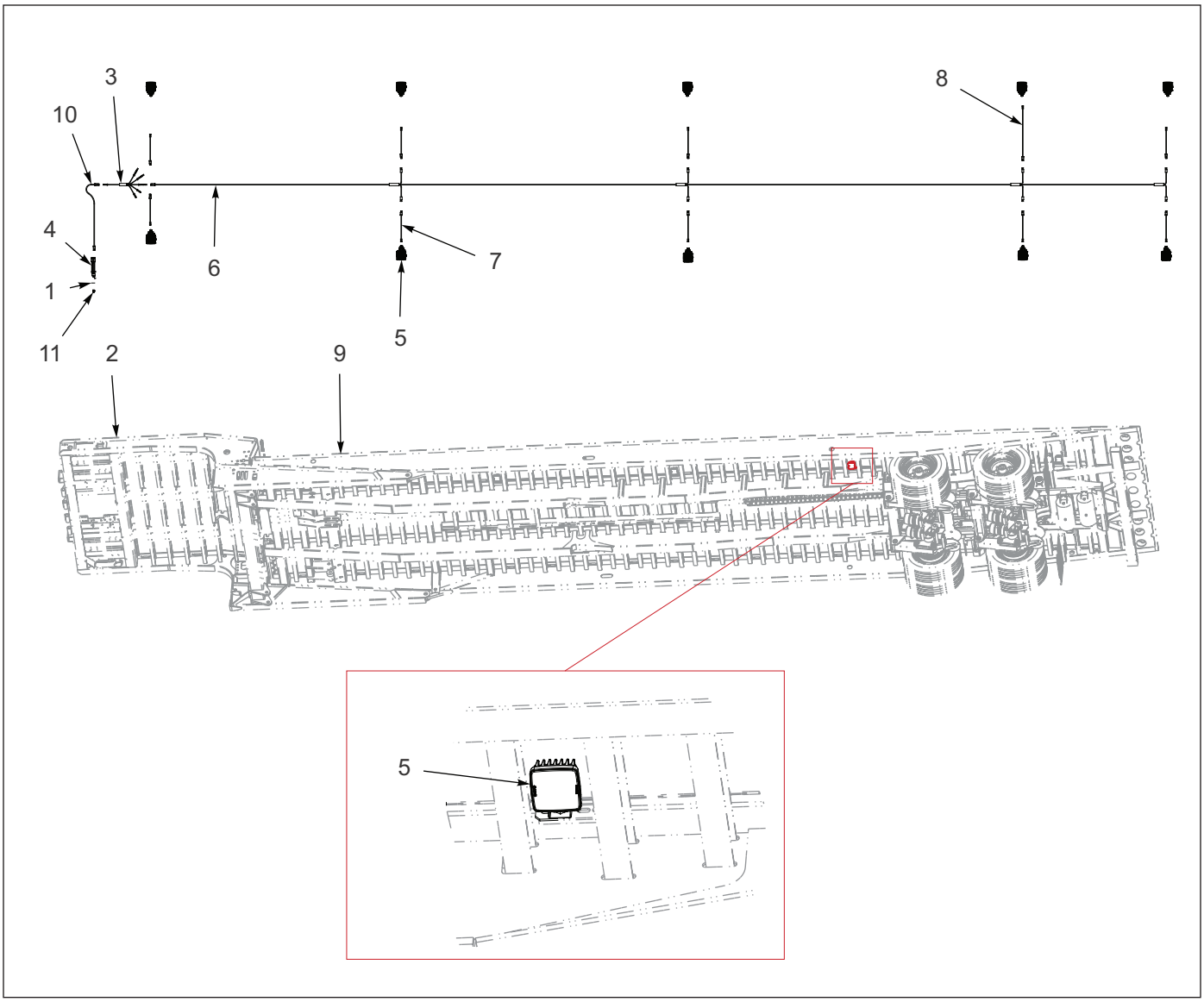


Figure 1-170: Underdeck Lights- 440-53

Underdeck Lights - 440-53

ITEM	PART NO.	DESCRIPTION	QTY.
	168709	UNDERDECK LIGHT INSTALLATION	- -
1	130116	DECAL, ON/OFF LIGHT	1
2	- - - - -	GOOSENECK WELDMENT	REF
3	150093	HARNESS, 5 AUXILIARY BRANCHES	1
4	150117	TOGGLE SWITCH SEALED SPST	1
5	163996	LIGHT, LED WHITE FLOODLAMP	REF
6	164012	HARNESS, WORK LIGHT	1
7	164052	HARNESS, 60” BRANCH WORK LIGHT	2
8	164053	HARNESS, BRANCH WORK LIGHT 102”’	1
9	- - - - -	FRAME, MOD UNDERDECK LIGHTS	REF
10	3-368-010252	HARNESS ASSEMBLY, BULKHEAD EXTENSION	1
11	81264	RUBBER BOOT FOR ELECT SWITCH	1

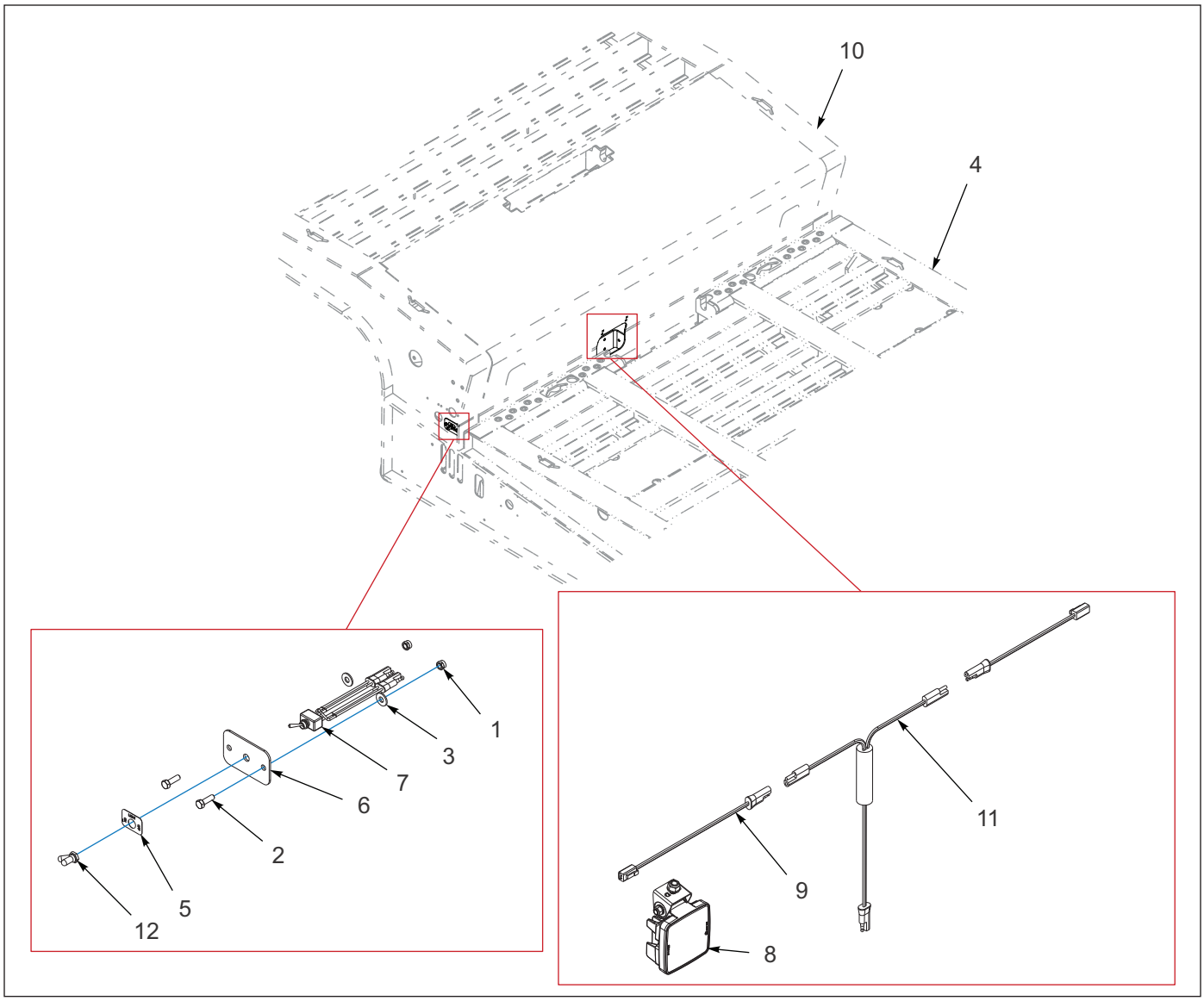


Figure 1-171: U/D Slope Lights

U/D Slope Lights

ITEM	PART NO.	DESCRIPTION	QTY.
	169201	U/D SLOPE LIGHT INSTALLATION	- -
1	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
2	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
3	1-861-010032-09	WASHER, FLAT 5/16W	2
4	- - - - -	FRAME WELDMENT	REF
5	130116	DECAL, ON/OFF LIGHT	1
6	137987	MOUNT, ELECTRIC SWITCH	1
7	150117	TOGGLE SWITCH SEALED SPST	1
8	163996	LIGHT, LED WHITE FLOODLAMP	REF
9	164052	HARNESS, 60” BRANCH WORK LIGHT	2
10	169202	FRAME, MOD U/D SLOPE LIGHTS	1
11	169853	HARNESS, T POWER BRANCH	1
12	81264	RUBBER BOOT FOR ELECT SWITCH	1

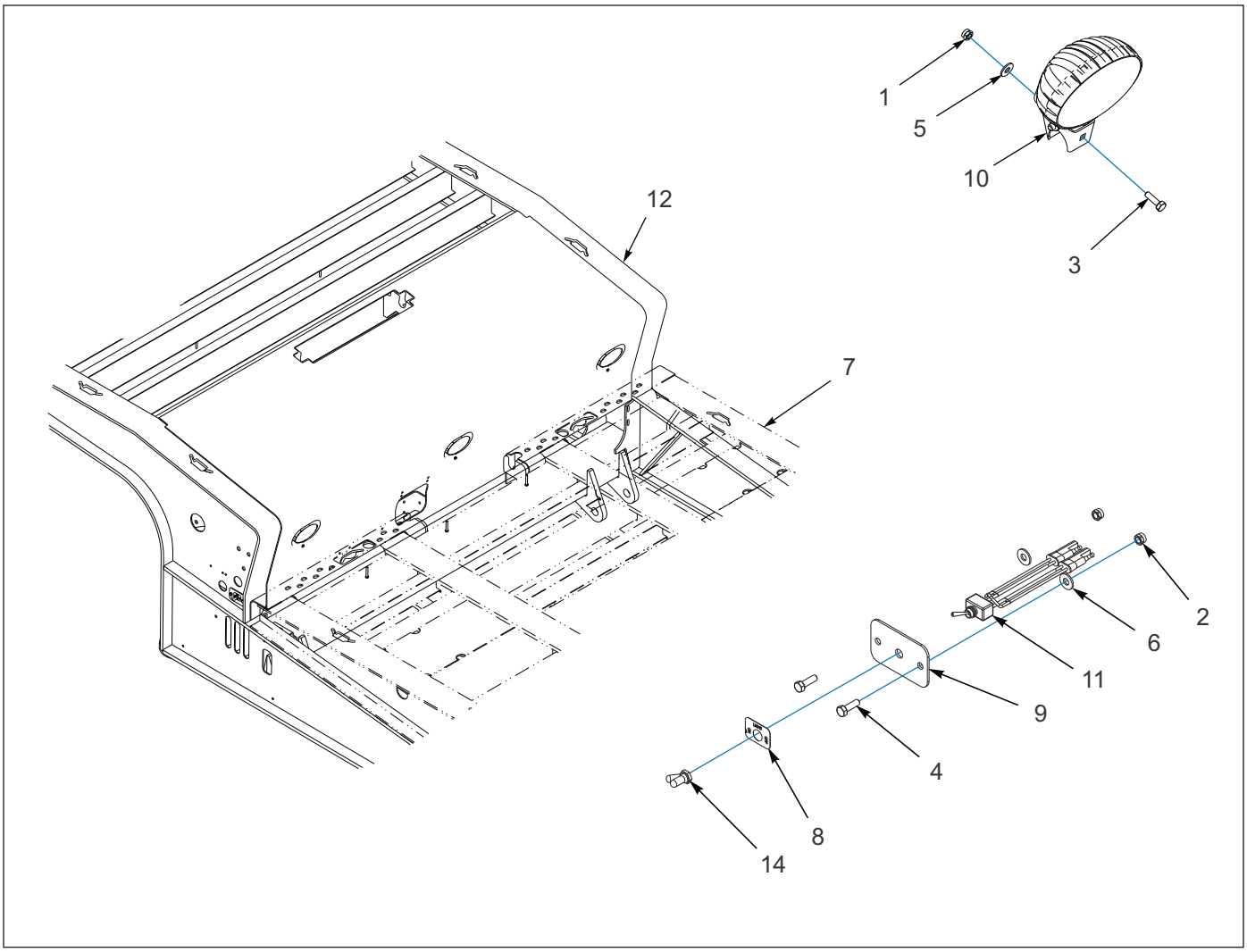


Figure 1-172: Slope LED Work Lights

Slope LED Work Lights

ITEM	PART NO.	DESCRIPTION	QTY.
	163797	LED SLOPE WORK LIGHT INSTALLATION	- -
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	6
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	1-654-010047-05	SCREW, HEX HEAD CAP 1/4-20 X 7/8 GR5	3
4	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
5	1-861-010032-07	WASHER, FLAT 1/4	3
6	1-861-010032-09	WASHER, FLAT 5/16W	2
7	- - - - -	FRAME WELDMENT	REF
8	130116	DECAL, ON/OFF LIGHT	1
9	137987	MOUNT, ELECTRIC SWITCH	1
10	145816	LIGHT, 3 X 5 LED HOIZONTAL OVAL	3
11	150117	TOGGLE SWITCH SEALED SPST	1
12	163798	FRAME, MOD U/D SLOPE LIGHTS	1
13	164569	HARNESS, LED WORK LIGHT	1
14	81264	RUBBER BOOT FOR ELECT SWITCH	1

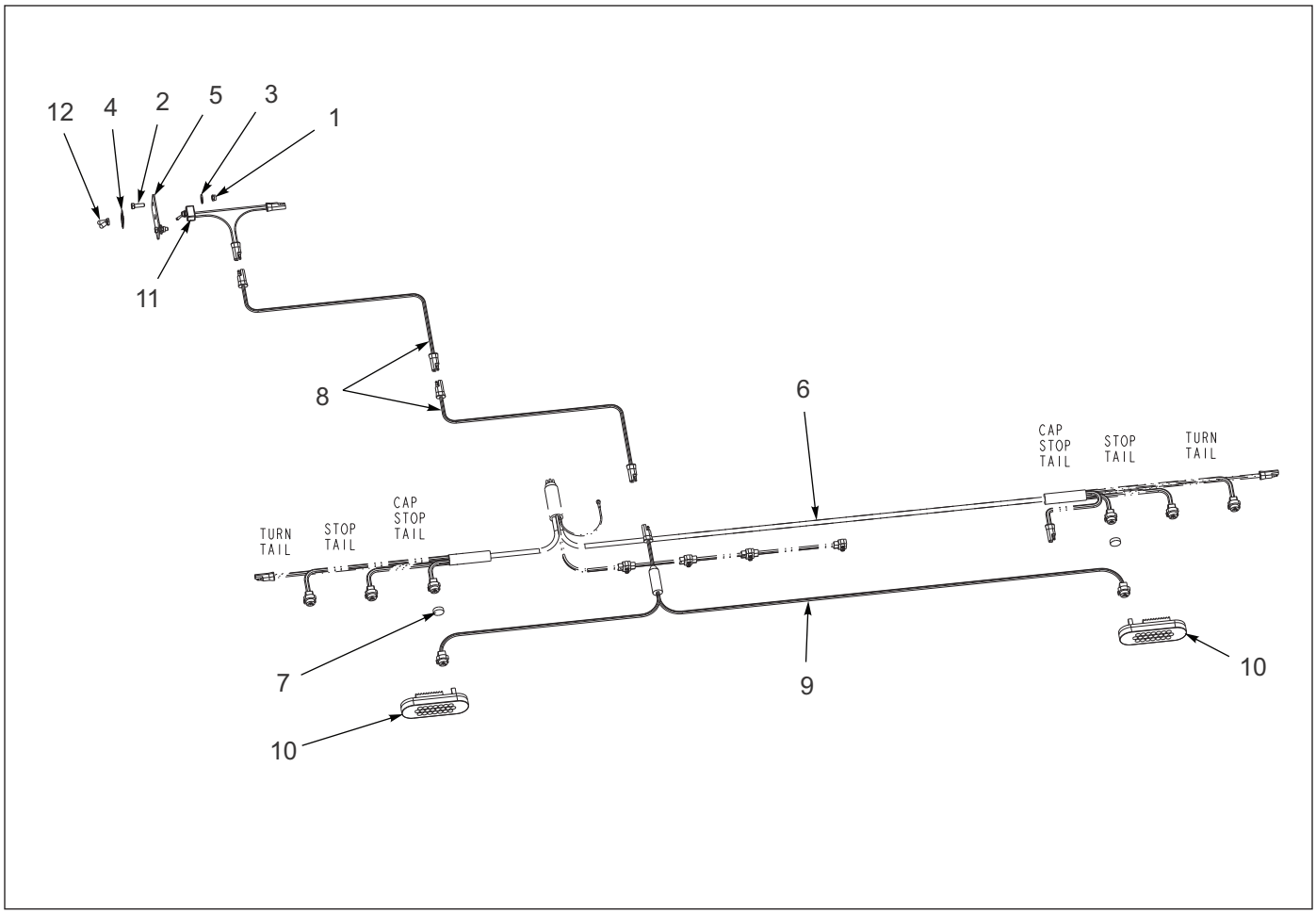


Figure 1-173: Bumper Strobe Lights

Bumper Strobe Lights

ITEM	PART NO.	DESCRIPTION	QTY.
	156512	WORK LIGHT INSTALLATION, LED SLOPE	- -
1	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
2	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
3	1-861-010032-09	WASHER, FLAT 5/16W	2
4	130116	DECAL, ON/OFF LIGHT	1
5	137987	MOUNT, ELECTRIC SWITCH	1
6	143104	HARNESS, REAR LED	REF
7	144608	DUMMY PLUG FOR FEMALE PLUG	2
8	150111	HARNESS	2
9	150114	HARNESS, BUMPER STROBE	1
10	150115	LIGHT, YELLOW STROBE OVAL	2
11	150117	TOGGLE SWITCH SEALED SPST	1
12	81264	RUBBER BOOT FOR ELECT SWITCH	1

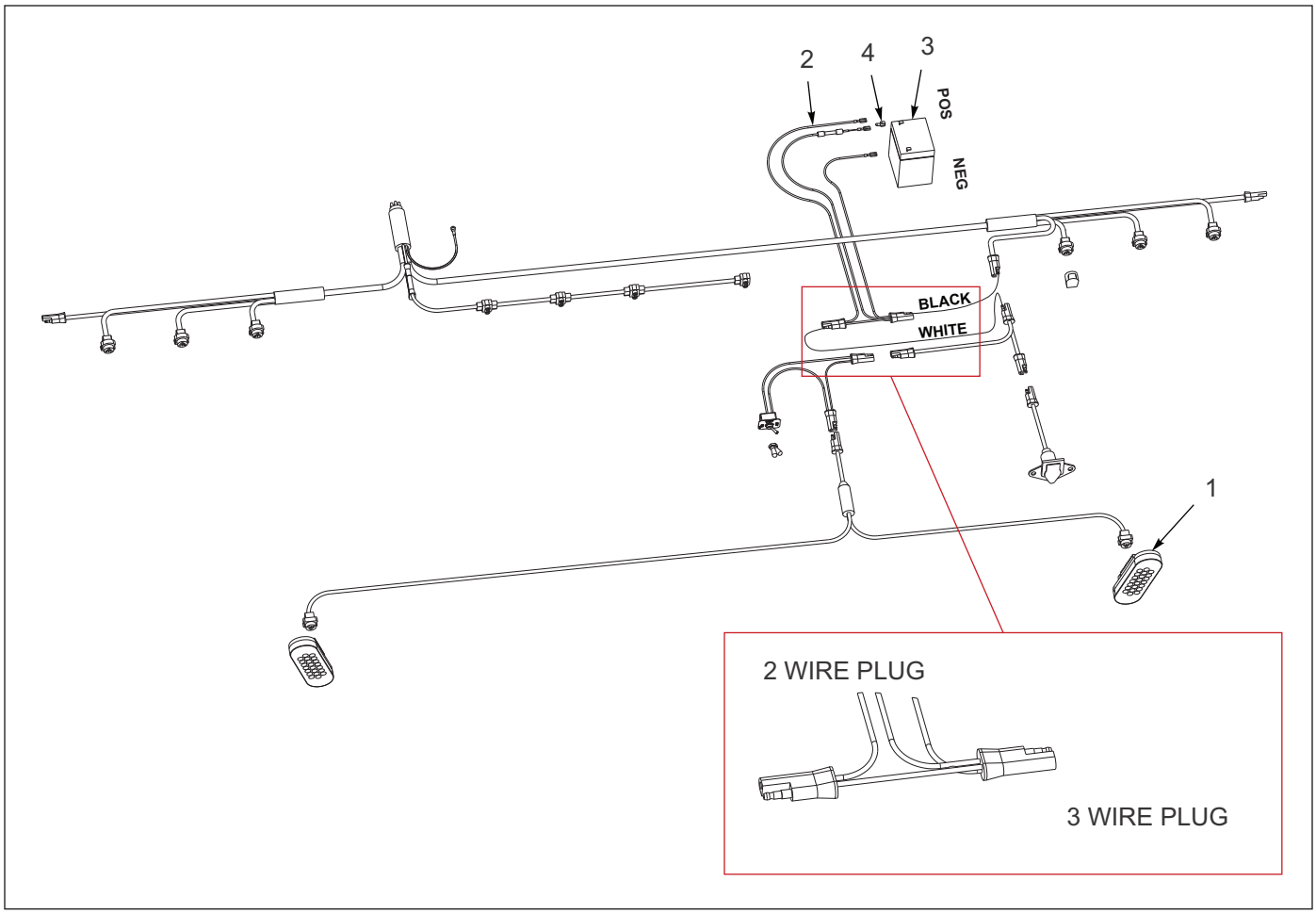


Figure 1-174: Battery Backup Bumper Strobe Lights

Battery Backup Bumper Strobe Lights

ITEM	PART NO.	DESCRIPTION	QTY.
	156067	BATTERY BACKUP BUMPER STROBE LIGHT	- -
1	155107	STROBE, BUMPER	REF
2	156069	HARNESS ASSEMBLY, JUMPER TRIC CHG	1
3	3-128-010032	BATTERY BRAKE-AWAY	1
4	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSH-ON	1

Table provided for general use.

NOTES:

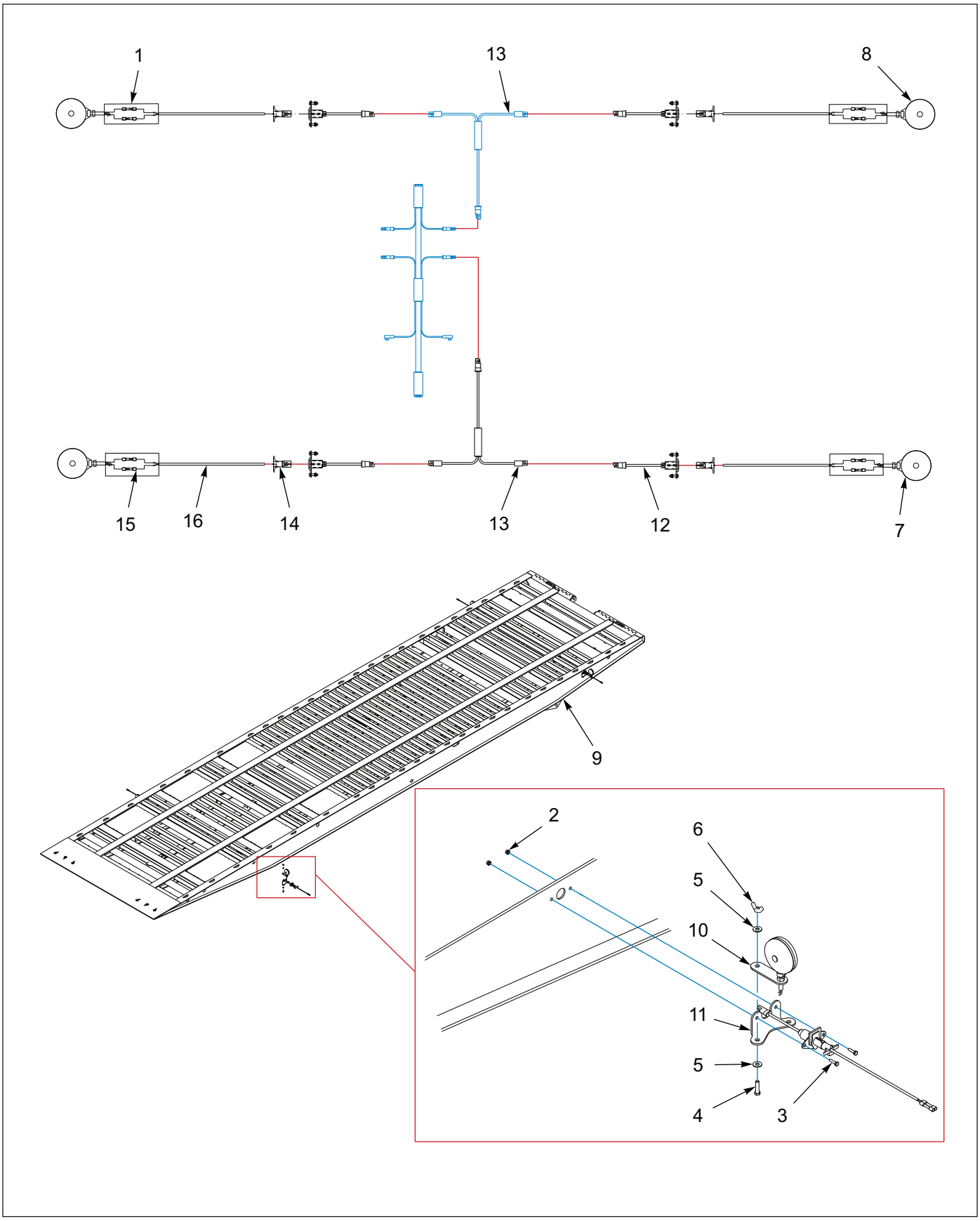


Figure 1-175: Four Corner Lights

Four Corner Lights

ITEM	PART NO.	DESCRIPTION	QTY.
	148576	FOUR CORNER LIGHT INSTALLATION	- -
1	0013007	TUBING, HEAT SHRINK	1
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	6
3	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
4	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	2
5	1-861-010032-11	WASHER, FLAT 3/8W	12
6	103-0924	NUT, WING 3/8-16	4
7	129893	LAMP, YELLOW TURN SIGNAL STUD MOUNT	2
8	129894	LAMP, RED TURN SIGNAL STUD MOUNT	2
9	- - - - -	FRAME WELDMENT	REF
10	139132	BRACKET, LAMP MOUNTING SWING	4
11	139133	BRACKET, LAMP MOUNTING STATIONARY	4
12	150116	HARNESS/RECEPTACLE ASSEMBLY	1
13	167965	HARNESS, JUMPER T-POWER	2
14	3-272-010010	CONNECTOR, ELECT 4 POLE MALE	4
15	3-272-010021	ELECT BUTT SPLICE 16/14 W/ SEAL	3
16	W214S-1	CABLE, 2 WIRE 14AWG PVCJKT 105	AR

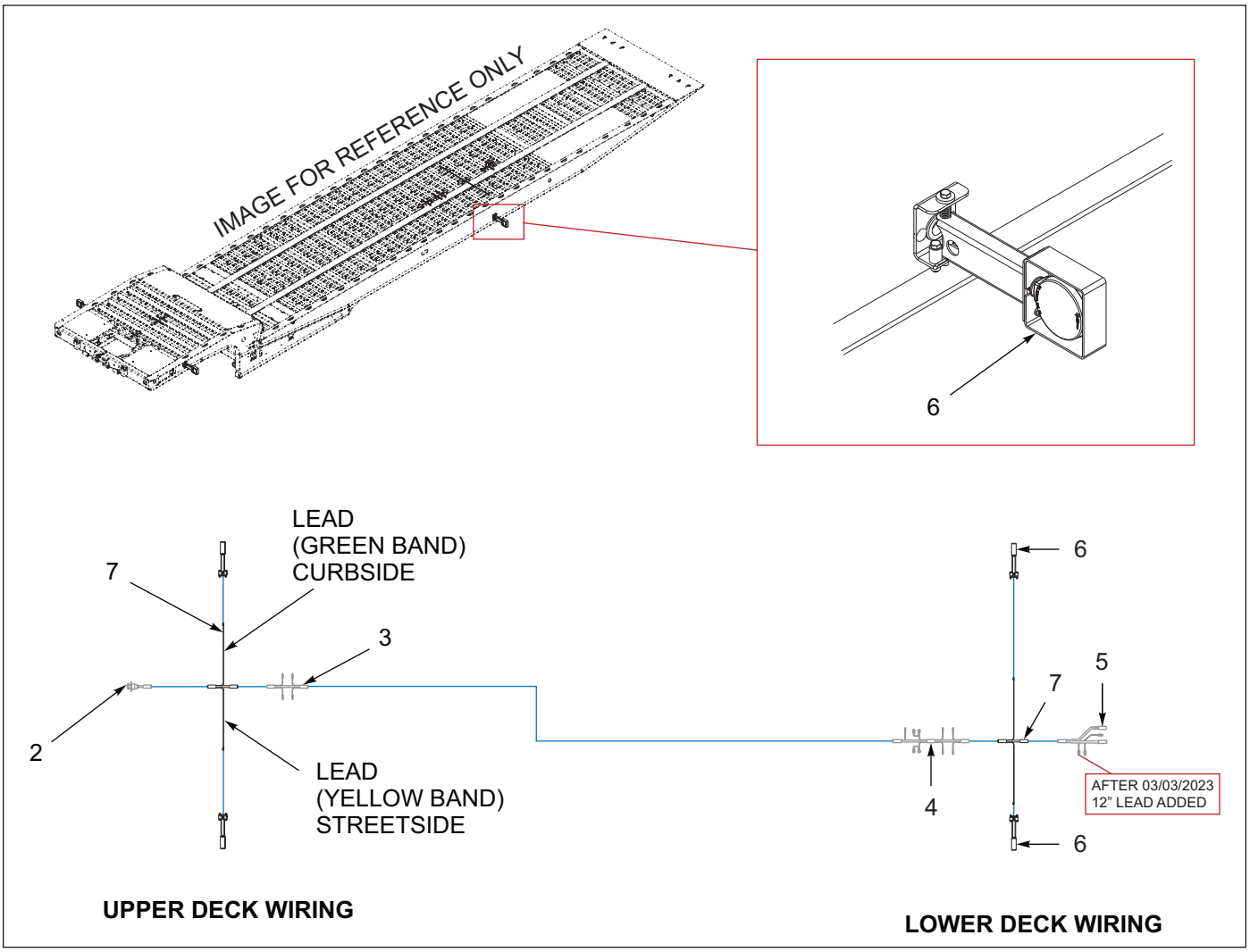


Figure 1-176: Swing-Out Lights, Electrical (OPTIONS)

Swing-Out Lights, Electrical (OPTIONS)

ITEM	PART NO.	DESCRIPTION	QTY.
	179085	INSTL,SWING-OUT LTS UPR&LWR DK	- -
	179088	INSTL, SWING-OUT LTS, UPR DK	- -
	179089	INSTL, SWING-OUT LTS, LWR DK	- -
1	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)** **(179085 REQ 24 EACH)** **(179088, 179089 REQ 12 EACH)**	- -
2	143100	HARNESS, 7 WAY RECEPTACLE	- -
3	143101	HARNESS, FRONT MAIN	- -
4	143102	HARNESS, BED MAIN	- -
5	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	- -
6	176420	SWING ARM LIGHT ASSEMBLY **(SEE PAGE 1-301)** **(179085 REQ 4 EACH)** **(179088, 179089 REQ 2 EACH)**	- -
7	176432	HARNESS JUMPER EMERGENCY FLASH **(179085 REQ 2 EACH)** **(179088, 179089 REQ 1 EACH)**	- -

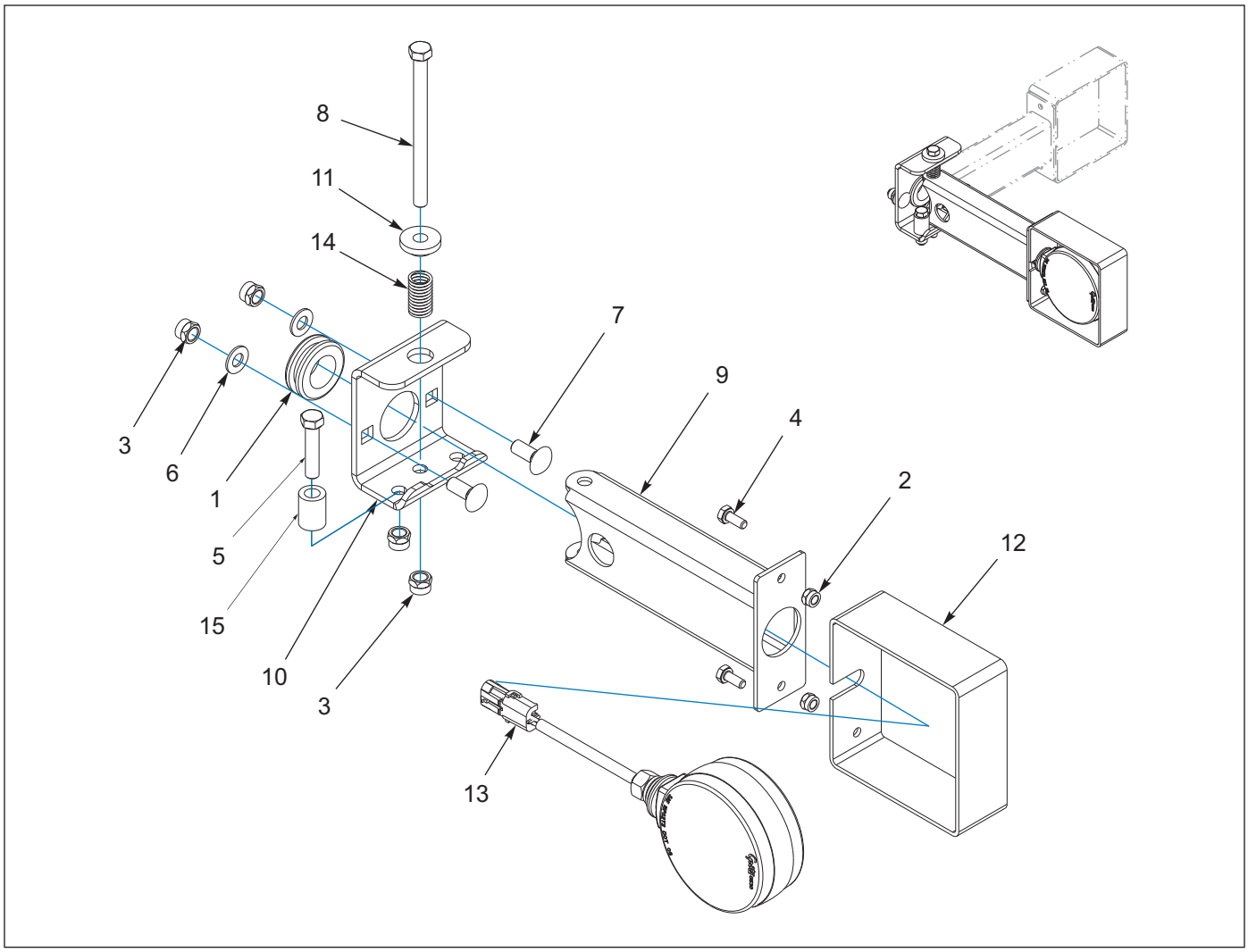


Figure 1-177: Swing-Out Light, Components (OPTION)

Swing-Out Light, Components (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	176420	SWING ARM LIGHT ASSEMBLY	- -
1	1-343-010007	GROMMET	1
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
4	1-654-010047-03	SCREW, HEX HEAD CAP 1/4-20 X 5/8 GR5	2
5	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	1
6	1-861-010032-10	WASHER, FLAT 3/8N	2
7	111276	SCREW, RD HEAD SQ NECK 3/8-16 X 1 GR5	2
8	172882	SCREW, HEX HEAD CAP 3/8-16 X 5 GR5	1
9	176421	LIGHT SWING-ARM WELDMENT	1
10	176424	BRACKET MOUNTING, SWING-ARM LIGHT	1
11	176425	WASHER, STEP	1
12	176440	MOUNT/GUARD, PEDESTAL LIGHT	1
13	178384	LIGHT, YELLOW LED 4” DOUBLE FACE	1
14	178389	SPRING, COMPRESSION SWING-ARM LIGHT	1
15	2-150-010240	BUSHING, STOP SPRAY SHIELD	1

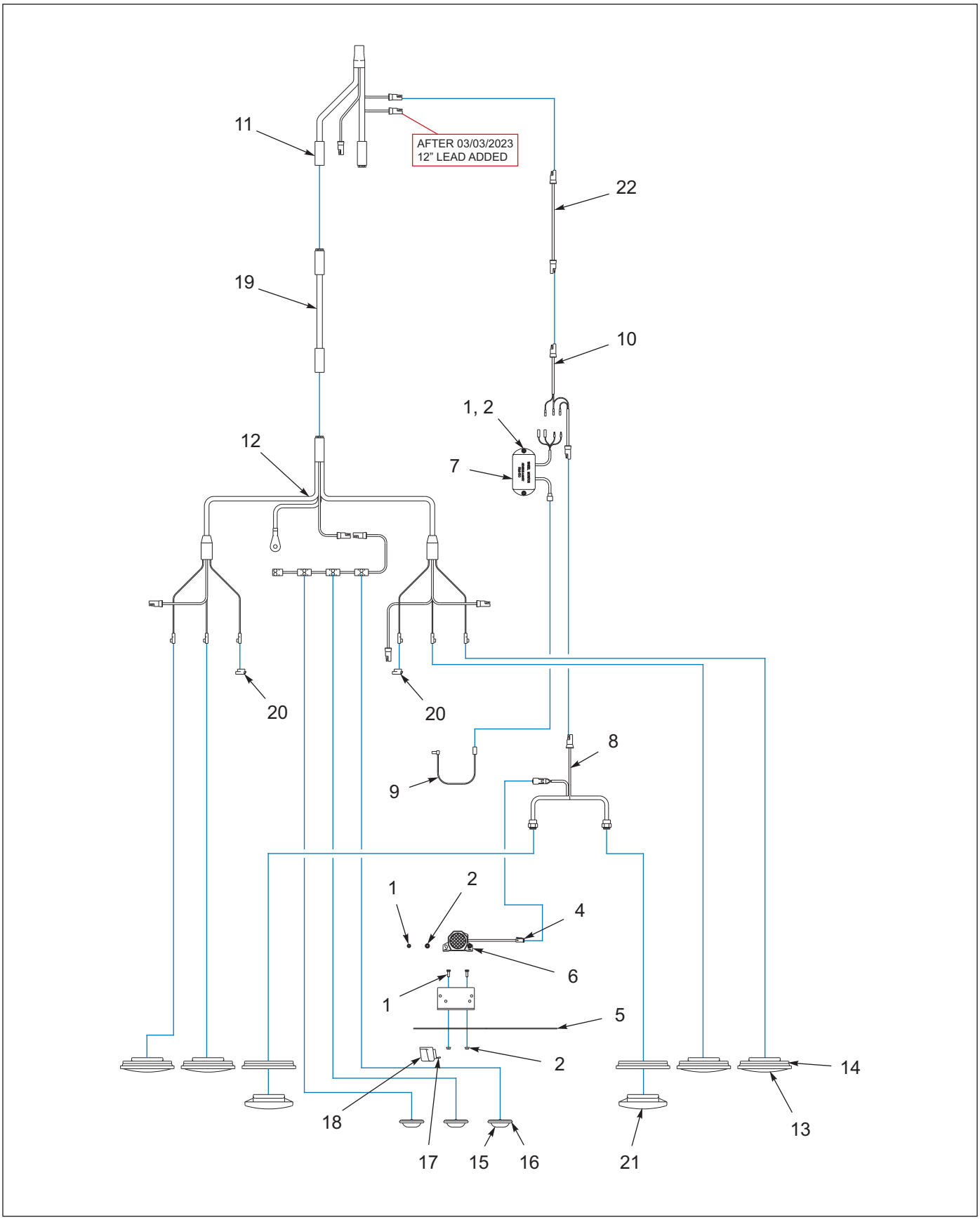


Figure 1-178: Backup Alarm/Light

Backup Alarm/Light

ITEM	PART NO.	DESCRIPTION	QTY.
	150329	BACKUP ALARM/LIGHT INSTALLATION	- -
1	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
2	108417	NUT, HEX FLANGE SPIRALOCK 1/4-20	6
4	117997	ALARM, dB ADJUSTING SMART BACKUP	1
5	119531	PLATE, TAG MOUNT	REF
6	127991	BRACKET, BACKUP ALARM MOUNT	1
7	150072	REVERSE DETN MODULE AND SENSOR	1
8	168872	HARNESS, BACKUP LIGHT/ALARM	1
9	137559	SENSOR, DIRECTIONAL CABLE 6.5’	1
10	150074	HARNESS, MODULE/ALARM	1
11	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12” LEAD ADDED)**	REF
12	143104	HARNESS, BUMPER	REF
13	143113	LIGHT, RED LED OVAL STT	REF
14	143114	GROMMET, OVAL	REF
15	143115	LIGHT, RED LED RECTANGLE CLEARANCE	REF
16	143116	GROMMET, RECTANGLE	REF
17	143117	LIGHT, CLEAR LED LICENSE	REF
18	143118	BRACKET, LIGHT LICENSE	REF
19	143166	HARNESS, EXT 48”	REF
20	144608	DUMMY PLUG FOR FEMALE PLUG	2
21	150330	GROTE LED BACKUP CLEAR	2
22	3-368-010252	HARNESS ASSEMBLY, BULKHEAD EXTENSION	1

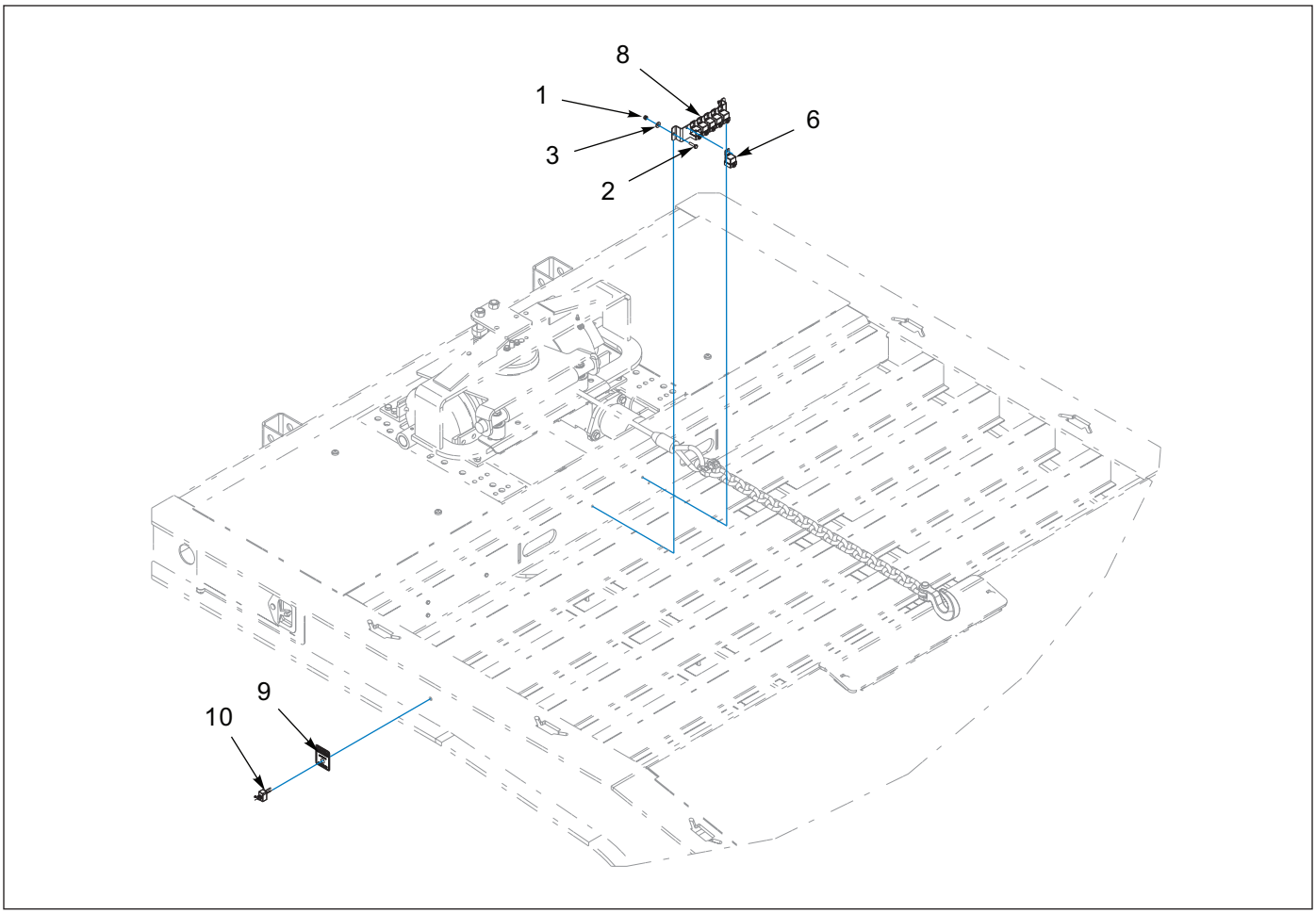


Figure 1-179: Electrical Disconnect Switch

Electrical Disconnect Switch

ITEM	PART NO.	DESCRIPTION	QTY.
	174139	ELECTRICAL DISCONNECT SWITCH INSTALLATION	- -
1	1-512-010004-05	NUT, HEX LOCK 1/4-20 GRA	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4	3
4	- - - - -	FRAME ASSEMBLY, G/N	REF
5	164053	HARNESS, BRANCH WORK LIGHT 102” **(NOT SHOWN)**	1
6	169534	RELAY, SEALED 20/40A	REF
7	174140	HARNESS, TRAILER ELECT DISCONNECT SWITCH **(NOT SHOWN)**	1
8	174141	BRACKET, RELAY MOUNT	REF
9	174142	DECAL, ELECTRICAL DISCONNECT SWITCH	1
10	3-272-010017	TOGGLE SWITCH, SEALED	REF
11	- - - - -	WINCH INSTALLATION 20K UPPER DECK	REF

Table provided for general use.

NOTES:

Scale-Options

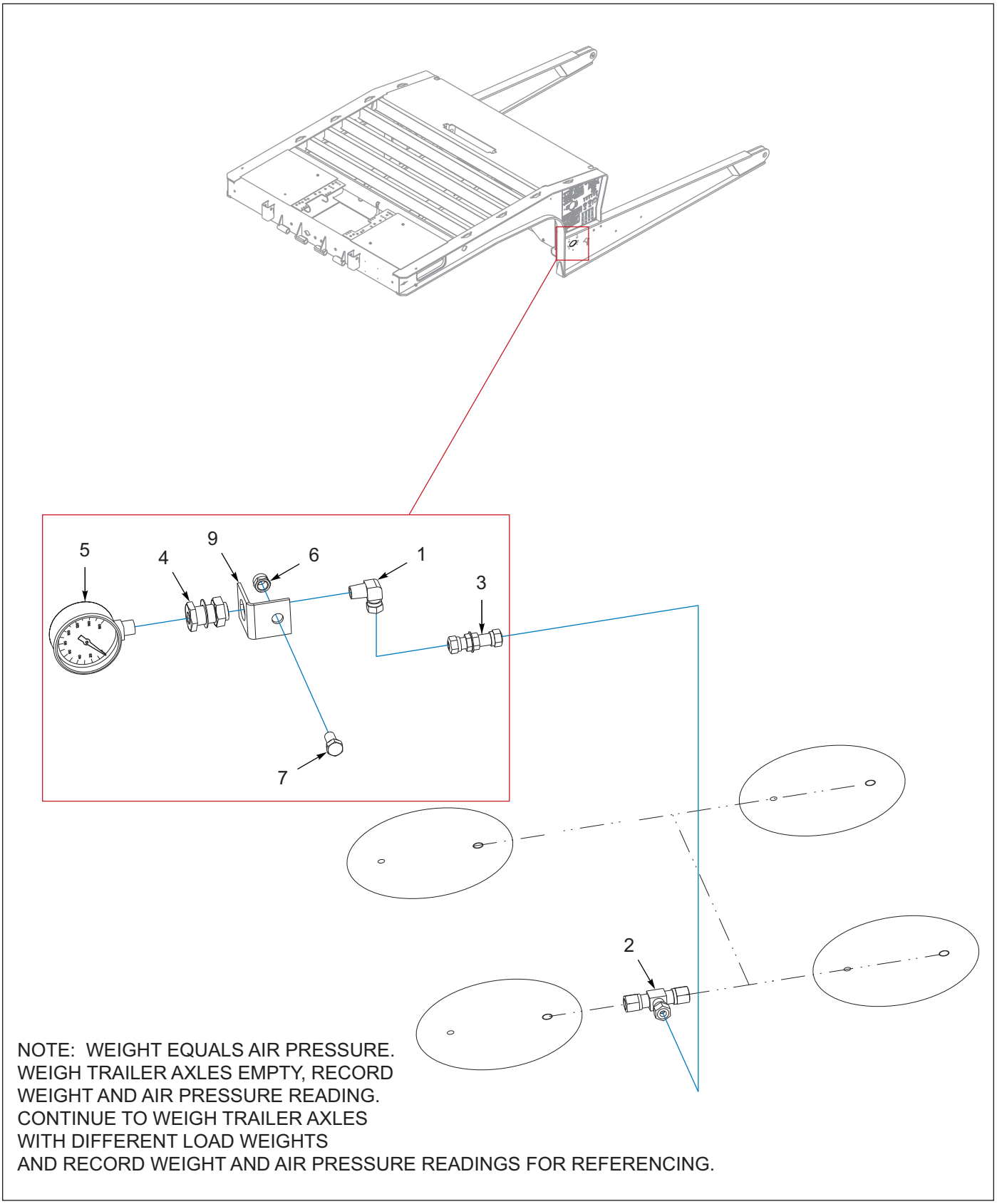


Figure 1-180: Scale, Air Pressure Gauge Assembly

Scale, Air Pressure Gauge Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	128601	PRESSURE GAUGE INSTL 410SUSP	- -
	172854	PRESSURE GAUGE INSTALLATION, ARCTIC	- -
1	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	1
1	126677	FITTING, AIR 90 **(ARCTIC)**	1
2	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	1
2	126675	FITTING, COMPRESSION TEE **(ARCTIC)**	1
3	1-297-010014-02	FITTING,AIR,BLKHD UNION 1/4	1
3	172853	FITTING, COMP ALIGN UNION BULKHEAD **(ARCTIC)**	1
4	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	1
5	1-323-010008	GAUGE, PRESSURE, 0-160 PSI	1
6	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
7	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	1
8	1-833-010001	TUBING NYLON 1/4 OD **(BLACK - BY THE FOOT)**	50
8	126629	TUBING NYLON 1/4 OD **(ARCTIC) (BLACK - BY THE FOOT)**	50
9	3-120-010445	BRACKET,PRESSURE REGULATOR660	1

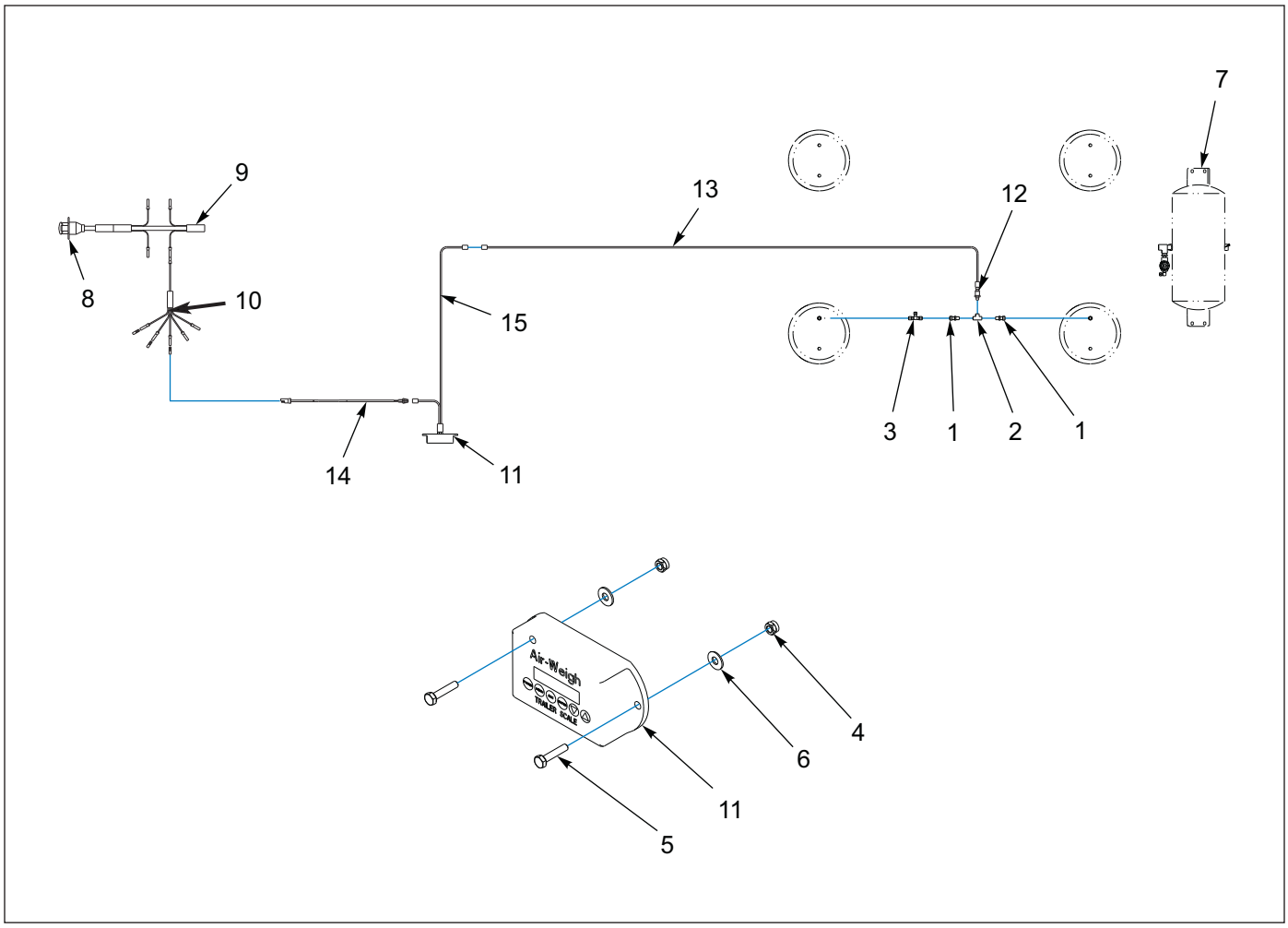


Figure 1-181: Scale, Loadmaxx (BEFORE 03/31/2020)

Scale, Loadmaxx (BEFORE 03/31/2020)

ITEM	PART NO.	DESCRIPTION	QTY.
	166821	SCALE INSTALLATION, LOADMAXX SYSTEM **(BEFORE 3/31/2020 - REPLACED BY 226557, 226661)**	- -
1	1-297-010007-11	FITTING AIR	2
2	1-297-010009-02	FITTING, AIR PIPE TEE	1
3	1-297-010010-04	FITTING AIR UNION TEE	- -
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	- -
5	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	- -
6	1-861-010032-07	WASHER, FLAT 1/4	- -
7	- - - - -	SUSPENSION, AIR RLU A/R	- -
8	143100	HARNESS, 7 WAY RECEPTACLE	- -
9	143101	HARNESS, FRONT MAIN	- -
10	150093	HARNESS, 5 AUXILIARY BRANCHES	- -
11	172437	SCALE, AIR DIGITAL MODIFIED **(ITEMS 12-15)**	1
12	149543	SENSOR ASSEMBLY, 5V 3/8" BRASS	1
13	184393	HARNESS MODIFIED 166002	1
14	166002	CABLE, AW5800 TRAILER POWER BLUNT CUT 15'	1
15	142895	CABLE, AW5800, TRAILER SCALE INTERFACE 2"	1

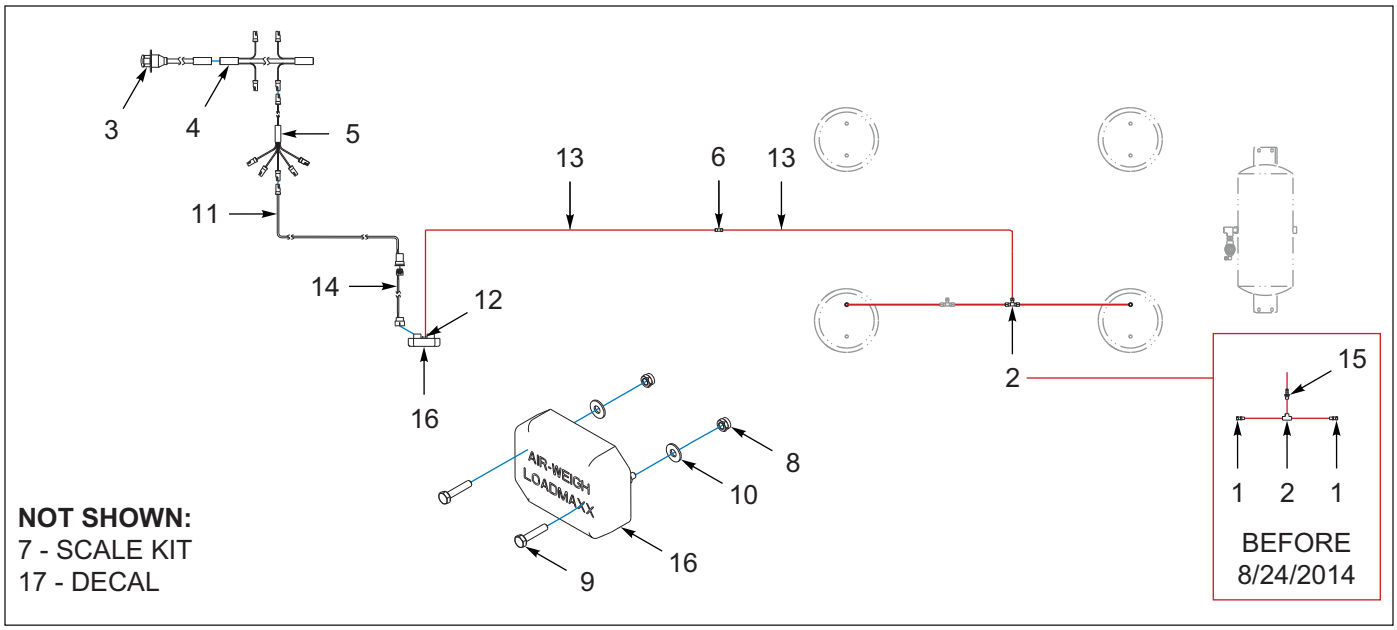


Figure 1-182: Scale, Quickload (BEFORE 03/31/2020)

Scale, Quickload (BEFORE 03/31/2020)

ITEM	PART NO.	DESCRIPTION	QTY.
	175358	SCALE INSTL QUICKLOAD(TRAVEL) **(BEFORE 3/31/2020 - REPLACED BY 226557, 226661)**	- -
1	1-297-010007-11	FITTING,AIR,3/8TUBE TO 1/4NPT **(BEFORE 8/28/2014)**	2
2	1-297-010009-02	FITTING,AIR,PIPE TEE 1/4 **(BEFORE 8/28/2014)**	1
2	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4 **(AFTER 8/28/2014)**	1
3	143100	HARNESS 7WAY RECP GROTE	1
4	143101	HARNESS FRONT MAIN GROTE	1
5	150093	HARNESS 5 AUX BRANCHES GROTE	1
6	175359	UNION AIR HOSE 1/4 O.D. POLY	1
7	175356	SCALE AIR LOADMAXX OBSOLETE **(BEFORE 02/26/2018)**	1
7	175360	SCALE AIR LOADMAXX (TRAV AXLE) **(AFTER 02/26/2018) (INCLUDES ITEMS 9-18)**	1
8	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
9	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	2
10	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
11	175364	CABLE, POWER, GROTE CONN, LM	1
12	175363	SPRING HOSE CLAMP 1/4 OD	1
13	175365	AIR LINE 1/4 OD X 50' AIR-WGH	1
14	184392	HARNESS MOD 175364 ASSY **(BEFORE 1/8/2019)**	1
14	218059	CABLE INTERFACE 18" POWER **(AFTER 1/8/2019)**	1
15	180221	HOSE BARB FITTING **(BEFORE 1/8/2019)**	1
15	212216	BRASS FITTING 1/4 NPT 1/4 BARB **(AFTER 1/8/2019, REPLACED 180221)**	1
16	175362	TRAILER SCALE QUICKLOAD **(BEFORE 01/01/2017)**	1
16	212215	TRAILER SCALE LOADMAXX **(AFTER 01/01/2017)**	1
17	166924	DECAL AIR-WEIGH TRAILER SCALE **(NOT SHOWN)**	1

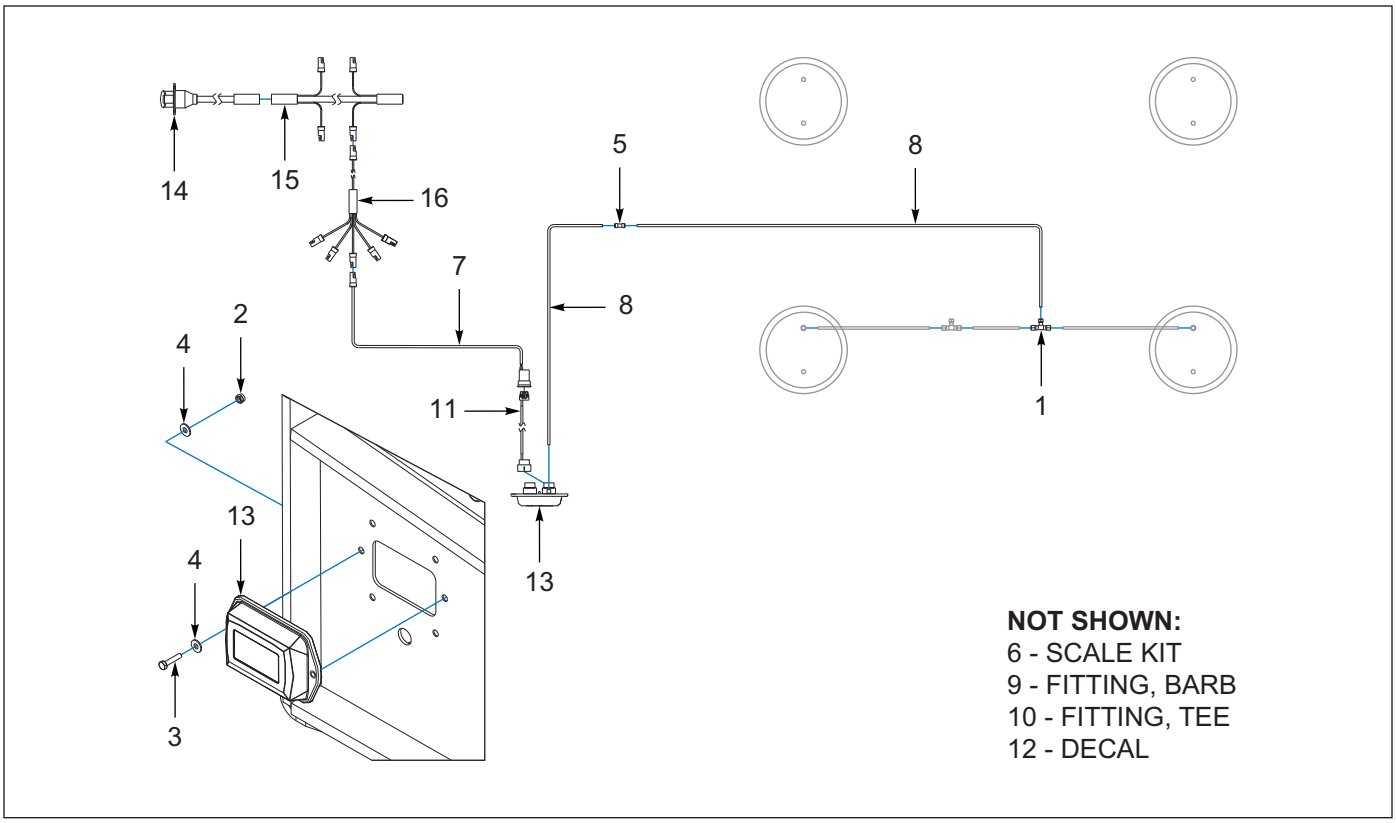


Figure 1-183: Scale, Quickload Plus & Loadmaxx Plus (AFTER 03/31/2020)

Scale, Quickload Plus & Loadmaxx Plus (AFTER 03/31/2020)

ITEM	PART NO.	DESCRIPTION	QTY.
	226657	QUICKLOAD PLUS TRAV AX INSTL **(REQUIRES ITEMS 1-6)**	- -
	226661	LOADMAXX PLUS TRAV AX INSTL **(REQUIRES ITEMS 1-6)**	- -
1	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	1
2	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
3	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	2
4	1-861-010032-07	WASHER,FLAT 1/4 ZP	4
5	175359	UNION AIR HOSE 1/4 O.D. POLY	1
6	226656	QUICKLOAD PLUS TRAV AXLE KIT **(INCLUDES ITEMS 8-13)**	1
6	226660	LOADMAXX PLUS TRAV AXLE KIT **(INCLUDES ITEMS 8-13)**	1
7	175364	CABLE, POWER, GROTE CONN, LM	1
8	175365	AIR LINE 1/4 OD POLY **(BY THE FOOT)**	50
9	212216	BRASS FITTING 1/4 NPT 1/4 BARB **(NOT SHOWN)**	1
10	226650	BRASS T 1/4NPT AIR WEIGH **(NOT SHOWN)**	1
11	226651	POWER CABLE 3.5FT AIR WEIGH	1
12	226653	DECAL AIR WEIGH SCALE **(NOT SHOWN)**	1
13	226652	QUICKLOAD PLUS SCALE MODULE **(INCLUDED WITH ITEM 6, 226656)**	1
13	226655	LOADMAXX PLUS SCALE MODULE **(INCLUDED WITH ITEM 6, 226660)**	1
14	143100	HARNESS 7WAY RECP GROTE	1
15	143101	HARNESS FRONT MAIN GROTE	1
16	150093	HARNESS 5 AUX BRANCHES GROTE	1

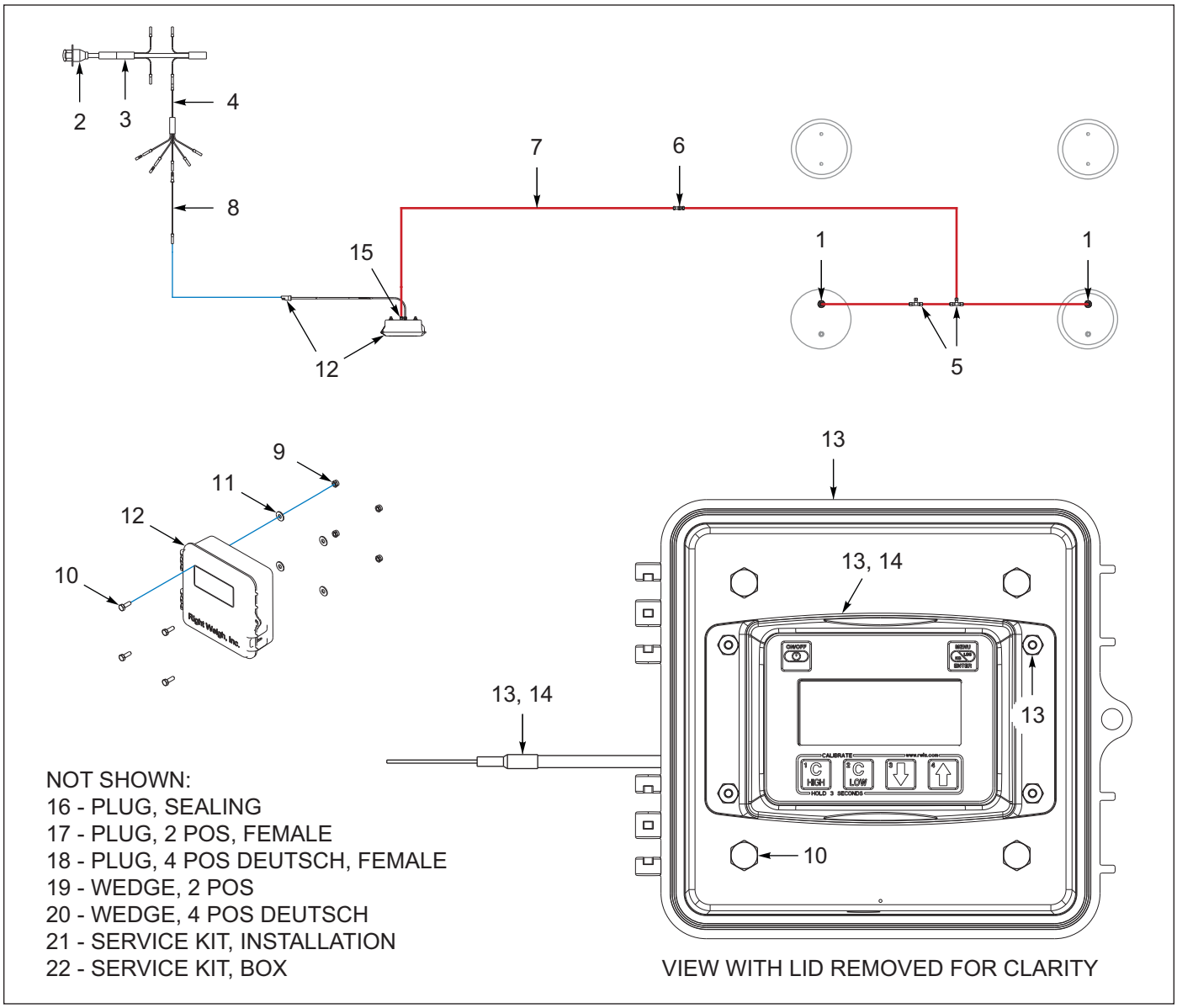


Figure 1-184: Scale, Right Weigh

Scale, Right Weigh

ITEM	PART NO.	DESCRIPTION	QTY.
	170470	SCALE INSTALLATION, RIGHT WEIGH SYSTEM **(NON-BLUETOOTH) (REQUIRES ITEMS 6-16)**	- -
	205742	SCALE INSTALLATION, RIGHT WEIGH SYSTEM W/ BLUETOOTH **(BLUETOOTH) (REQUIRES ITEMS 6-21)**	- -
1	1-297-010007-11	FITTING AIR	2
2	143100	HARNESS, 7 WAY RECEPTACLE	1
3	143101	HARNESS, FRONT MAIN	1
4	150093	HARNESS, 5 AUXILIARY BRANCHES	1
5	1-297-010010-04	FITTING AIR UNION TEE	2
6	1-297-010014-02	FITTING, AIR	1
7	1-833-010001	TUBING NYLON 1/4 OD **(BLACK - BY THE FOOT)**	45
8	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
9	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	4

Scale, Right Weigh

ITEM	PART NO.	DESCRIPTION	QTY.
10	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	4
11	1-861-010032-07	WASHER, FLAT 1/4	4
12	170471	HARNESS ASSEMBLY, RIGHT WEIGH **(NON-BLUETOOTH) (INCLUDES HARNESS CONNECTOR AND ITEMS 14-16)**	1
12	205744	HARNESS ASSEMBLY, RIGHT WEIGH **(BLUETOOTH) (INCLUDES HARNESS CONNECTOR AND ITEMS 14-21)**	1
13	169935	RIGHT WEIGH DIGITAL SCALE **(NON-BLUETOOTH) (INCLUDED WITH ITEM 13, 170471) (INCLUDES BOX, SCALE, GASKET AND 4 NUTS / BOLTS, WO / HARNESS CONNECTOR)**	1
13	205745	E-Z WEIGH DIGITAL BT SCALE **(BLUETOOTH) (INCLUDED WITH ITEM 13, 205744) (INCLUDES BOX, SCALE, GASKET AND 4 NUTS / BOLTS, WO / HARNESS CONNECTOR)**	1
14	171159	DIGITAL SCALE **(NON-BLUETOOTH) (INCLUDED WITH ITEM 13, 170471) (WO / HARNESS CONNECTOR)**	1
14	205747	DIGITAL SCALE W/ BLUETOOTH **(BLUETOOTH) (INCLUDED WITH ITEM 13, 205744) (WO / HARNESS CONNECTOR)**	1
15	218069	FITTING PUSH CON 201-EDG-01 **(INCLUDED WITH ITEM 13 - 170471 & 205744)**	1
16	622-2962-009	PLUG, SEALING **(NOT SHOWN, INCLUDED WITH ITEM 13, 205744)**	8
17	622-2967-002	PLUG 2 POS. (FEMALE) **(NOT SHOWN, INCLUDED WITH ITEM 13, 205744)**	2
18	622-2967-006	DEUTSCH PLUG 4 POS FEMALE **(NOT SHOWN, INCLUDED WITH ITEM 13, 205744)**	1
19	622-2967-018	WEDGE, 2 POS PLUG **(NOT SHOWN, INCLUDED WITH ITEM 13, 205744)**	2
20	622-2967-022	DEUTSCH WEDGE, 4 POS PLUG **(NOT SHOWN, INCLUDED WITH ITEM 13, 205744)**	1
21	171160	DIGITAL INSTALLATION KIT **(NOT SHOWN, KIT INCLUDES)**	1
21	- - - - -	1/4” NPT STREET TEE FITTING	1
21	- - - - -	3/8” NPT STREET TEE FITTING	1
21	- - - - -	3/8” NPT TO 1/4” NPT REDUCER FITTING	1
21	- - - - -	1/4” NPT MALE TO 1/4” TUBE STRAIGHT FITTING	1
21	- - - - -	BUTT CONNECTORS	4
21	- - - - -	1/2” X 6” HEAT SHRINK TUBING	2
21	- - - - -	1/4” AIR LINE **(BY THE FOOT)**	30
21	- - - - -	WEATHER RESISTANT POWER CABLE **(BY THE FOOT)**	25
21	- - - - -	PLASTIC TIES	30
22	171161	RIGHT WEIGH MOUNT BOX SERVICE **(NOT SHOWN, KIT INCLUDES)**	1
22	- - - - -	BOX, POLYCARBONATE **(W/LID GASKET)**	1
22	- - - - -	GASKET, SCALE TO BOX	1
22	- - - - -	BRACKET, MOUNTING	1
22	- - - - -	MOUNTING HARDWARE, SCALE TO BOX **(STAINLESS NUTS AND BOLTS)**	4
22	- - - - -	MOUNTING HARDWARE, BOX TO BRACKET **(STAINLESS NUTS, BOLTS AND WASHERS)**	4
22	- - - - -	MOUNTING HARDWARE, BRACKET TO TRAILER **(STAINLESS NUTS, BOLTS AND WASHERS)**	2

Table provided for general use.

NOTES:

Miscellaneous Options

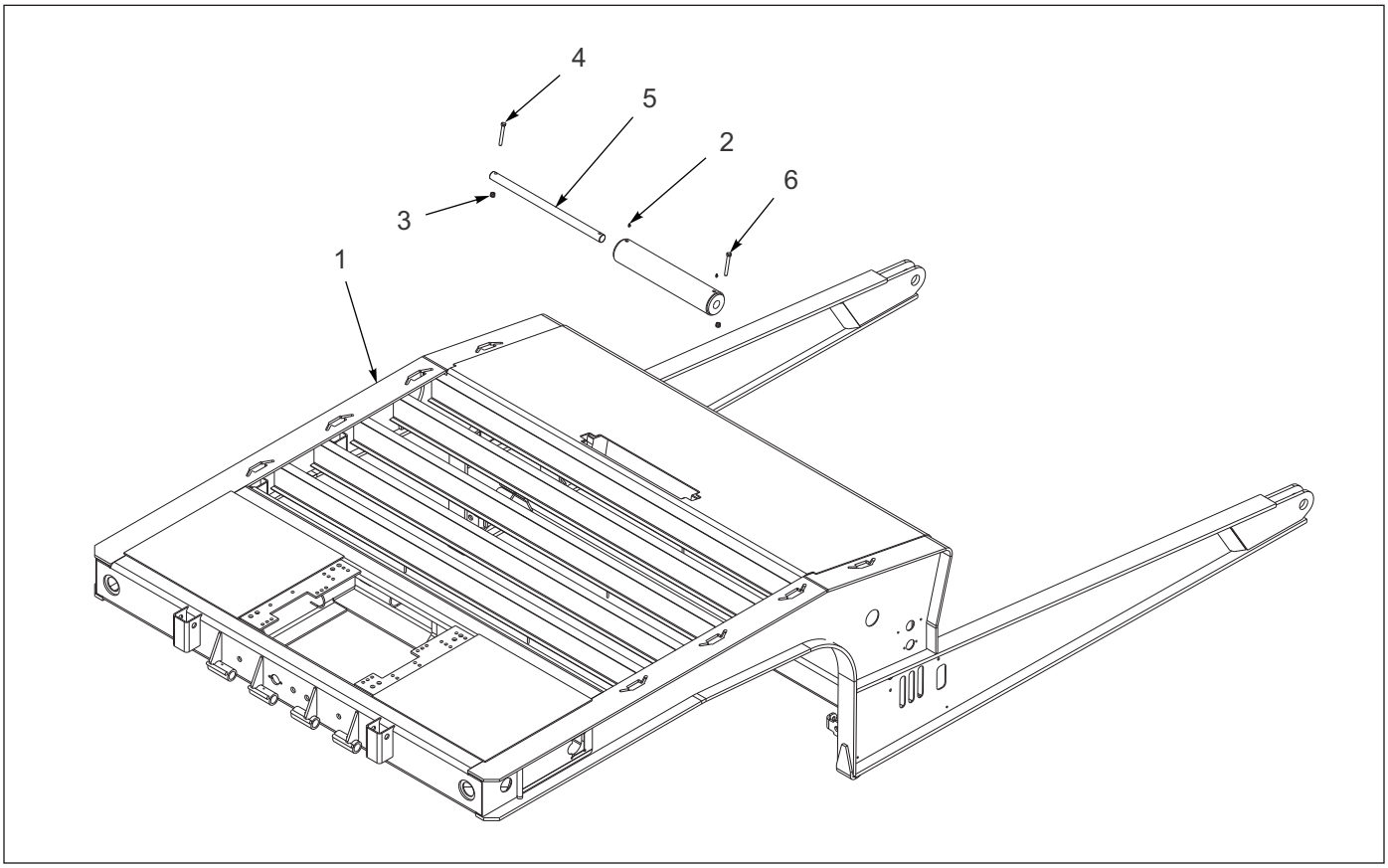


Figure 1-185: Upper Deck Roller

Upper Deck Roller

ITEM	PART NO.	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION	- -
1	130662	GOOSENECK WELDMENT	REF
2	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
5	3-642-010134	ROD ROLLER **(27-11/16 INCH)**	1
6	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK **(24 INCH)**	1

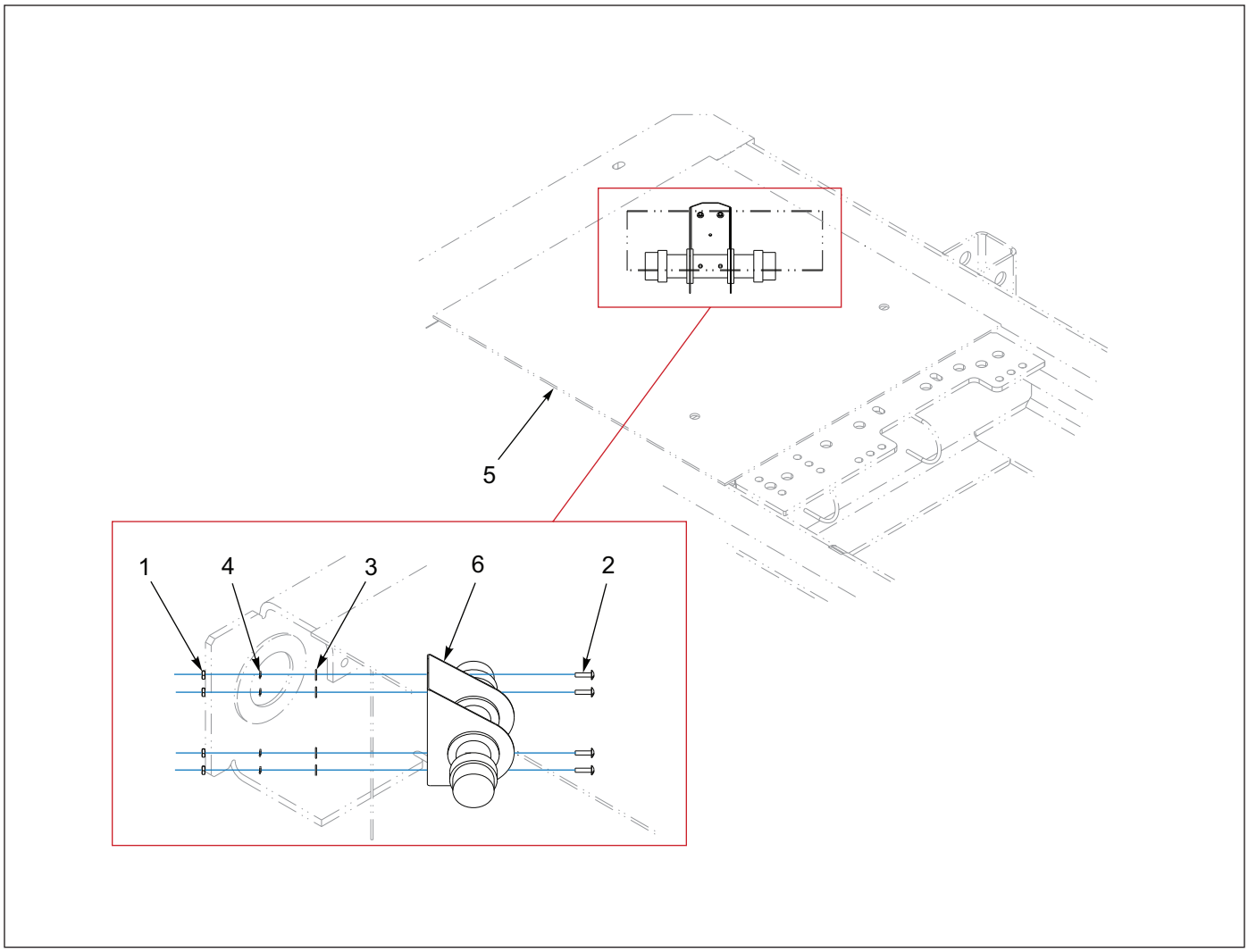
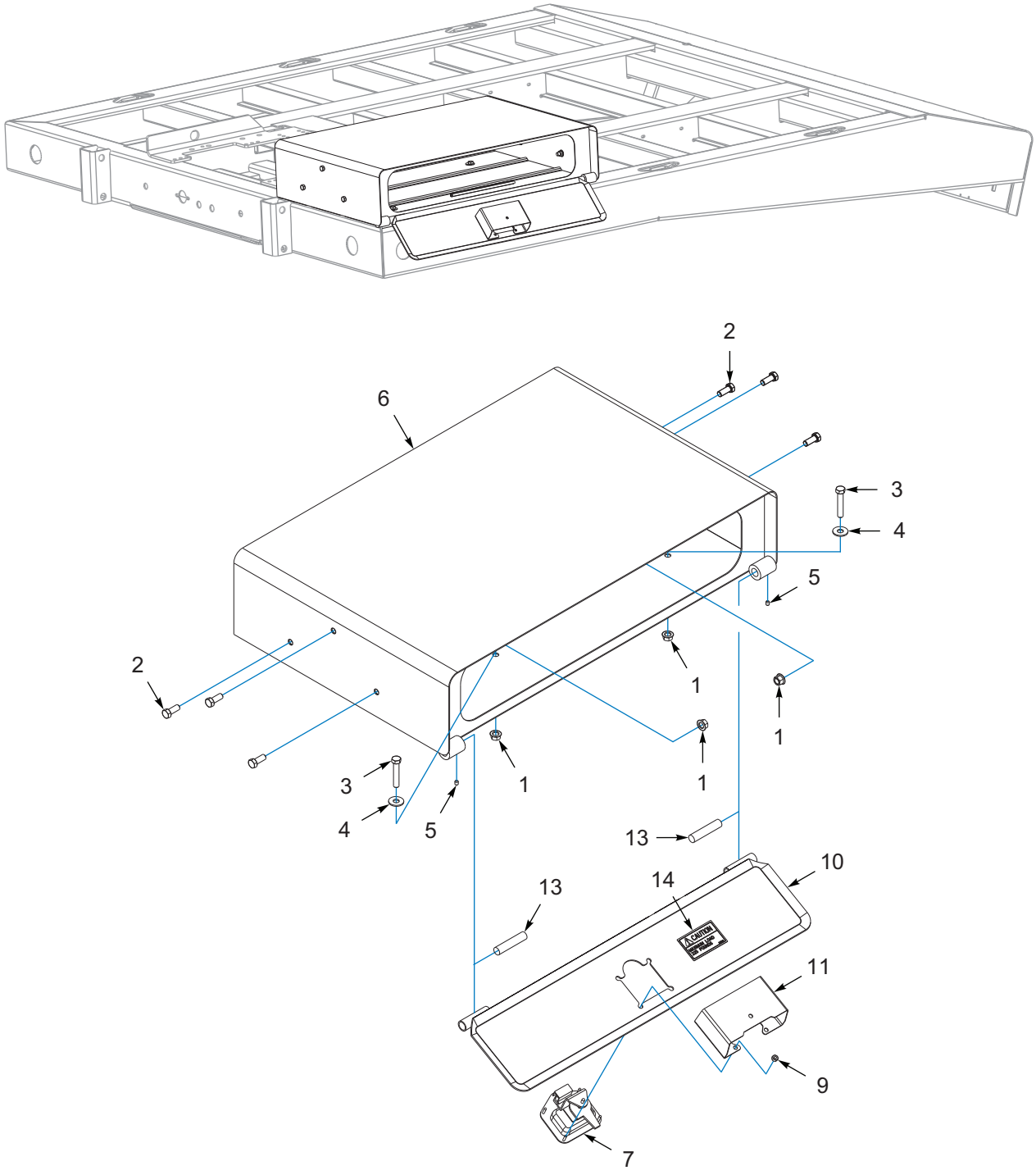


Figure 1-186: Registration Holder

Registration Holder

ITEM	PART NO.	DESCRIPTION	QTY.
	175989	REGISTRATION HOLDER INSTALLATION	- -
1	1-512-010007-03	NUT, HEX LOCK 10-24	4
2	1-656-010003051	SCREW, RD HEAD SQ NECK 10-24 X 3/4	4
3	1-861-010032-03	WASHER, FLAT #10	4
4	1-861-010034-07	WASHER, FLAT #10	4
5	- - - - -	GOOSENECK WELDMENT	REF
6	174598	REGISTRATION CARD HOLDER	1



NOT SHOWN:
8 - SEAL, DOOR, RUBBER TRIM
12 - LOCKTITE (USED ON ITEM 9)

Figure 1-187: Toolbox, Bolt-On, 42”W X 28”D X 9”H, Upper Deck (OPTIONS)

Toolbox, Bolt-On, 42”W X 28”D X 9”H, Upper Deck (OPTIONS)

ITEM	PART NO.	DESCRIPTION	QTY.
	125399	TOOLBOX INSTL UPR DK 930	- -
1	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	10
2	1-654-010055-01	SCR,HX CP 1/2-13UNCX1 GR5	6
3	1-654-010055-07	SCREW HX CP 1/2-13UNCX2-1/2	4
4	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
5	107-0975	SCREW SET LOCK 5/16-18X3/8LG	2
6	114808	TOOLBOX WLDMT 930	1
7	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
8	114815	SEAL, SPONGE RUBBER TRIM **(BY THE FOOT)**	7
9	115877	NUT HVY HEX 1/4-20 GR5	4
10	116623	DOOR WLDMT STL 930 TOOLBOX **(STEEL)**	1
10	116624	DOOR WLDMT ALUM 930 TOOLBOX **(ALUMINIUM)**	1
11	153420	TOOLBOX LATCH SHIELD	1
12	#242 LOCKTITE	LOCKTITE 242 BLUE REMOVABLE **(BOTTLE)**	0.01
13	RPRB59004X3H	BAR RD, 3/4DIA X 3-1/2 NY LTR	2
14	205912	DECAL MAX LOAD 225	1

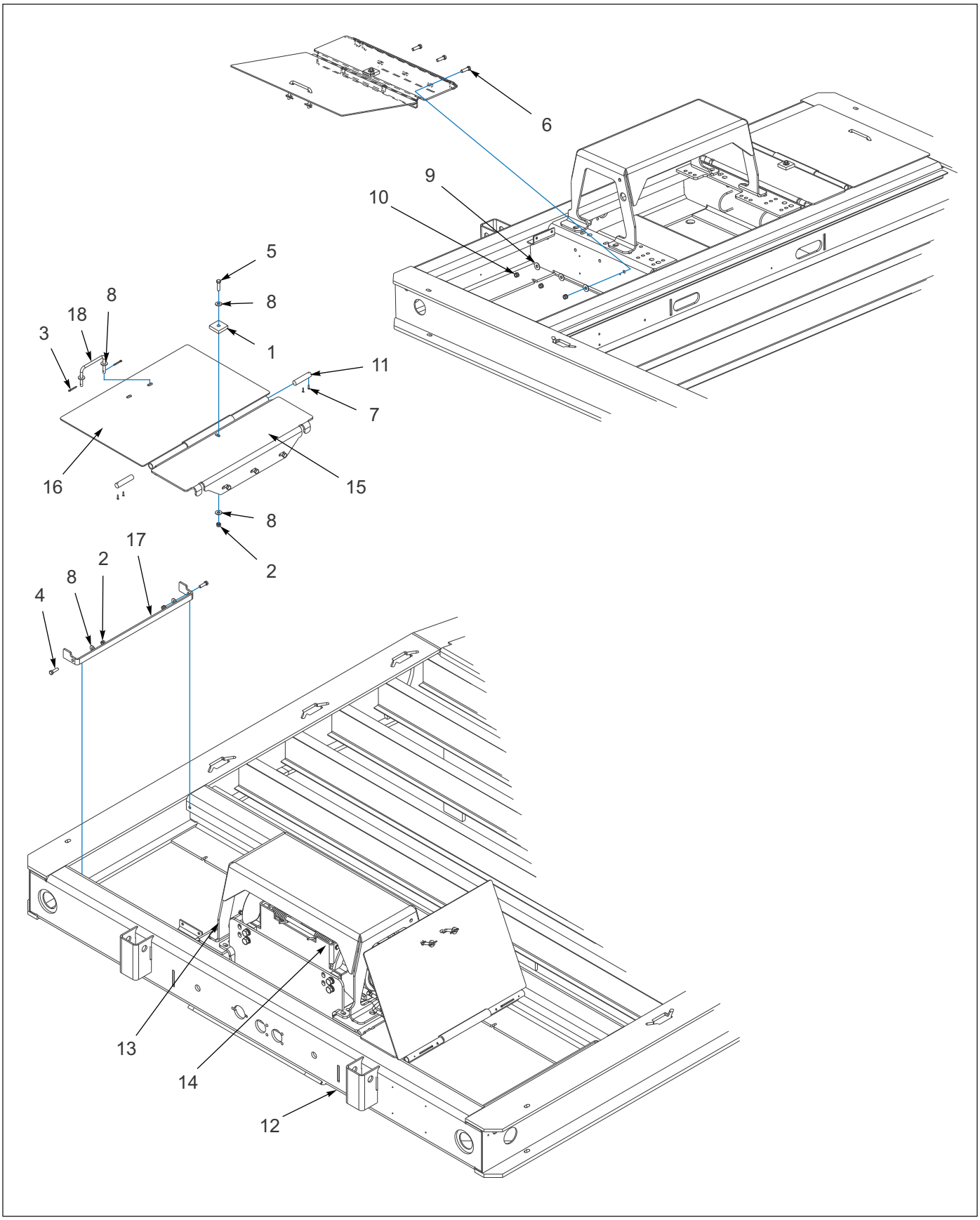


Figure 1-188: Upper Deck Toolbox Lid - Non-weight Bearing

Upper Deck Toolbox Lid - Non-weight Bearing

ITEM	PART NO.	DESCRIPTION	QTY.
	175938	UPPER DECK TOOLBOX LID INSTALLATION **(NON-WEIGHT BEARING)**	- -
1	1-250-010097	RUBBER PAD	2
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	6
3	1-557-010362-40	PIN, COTTER 5/32 X 1-1/4	4
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
5	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	2
6	1-654-010053-05	SCREW, HEX HEAD CAP 7/16-14 X 1-1/2 GR5	6
7	1-654-010147-06	SCREW, RD HEAD SELF-TAP #6-20 X 3/4	8
8	1-861-010032-11	WASHER, FLAT 3/8W	12
9	1-861-010032-13	WASHER, FLAT 7/16W	6
10	101988	NUT, HEX LOCK 7/16-14 GRB	6
11	135181	BUSHING, NYLATRON TOOLBOX	4
12	- - - - -	GOOSENECK WELDMENT	REF
13	171167	GUARD, WINCH 20K/30K WARN	REF
14	- - - - -	WINCH ASSEMBLY, WARN 30K	REF
15	175940	SUPPORT WELDMENT, TOOLBOX LID	2
16	175942	LID WELDMENT, TOOLBOX	2
17	176069	CHAIN HOLDER, TOP OPEN TOOLBOX	2
18	3-360-010014	HANDLE, TOOL COMP	2

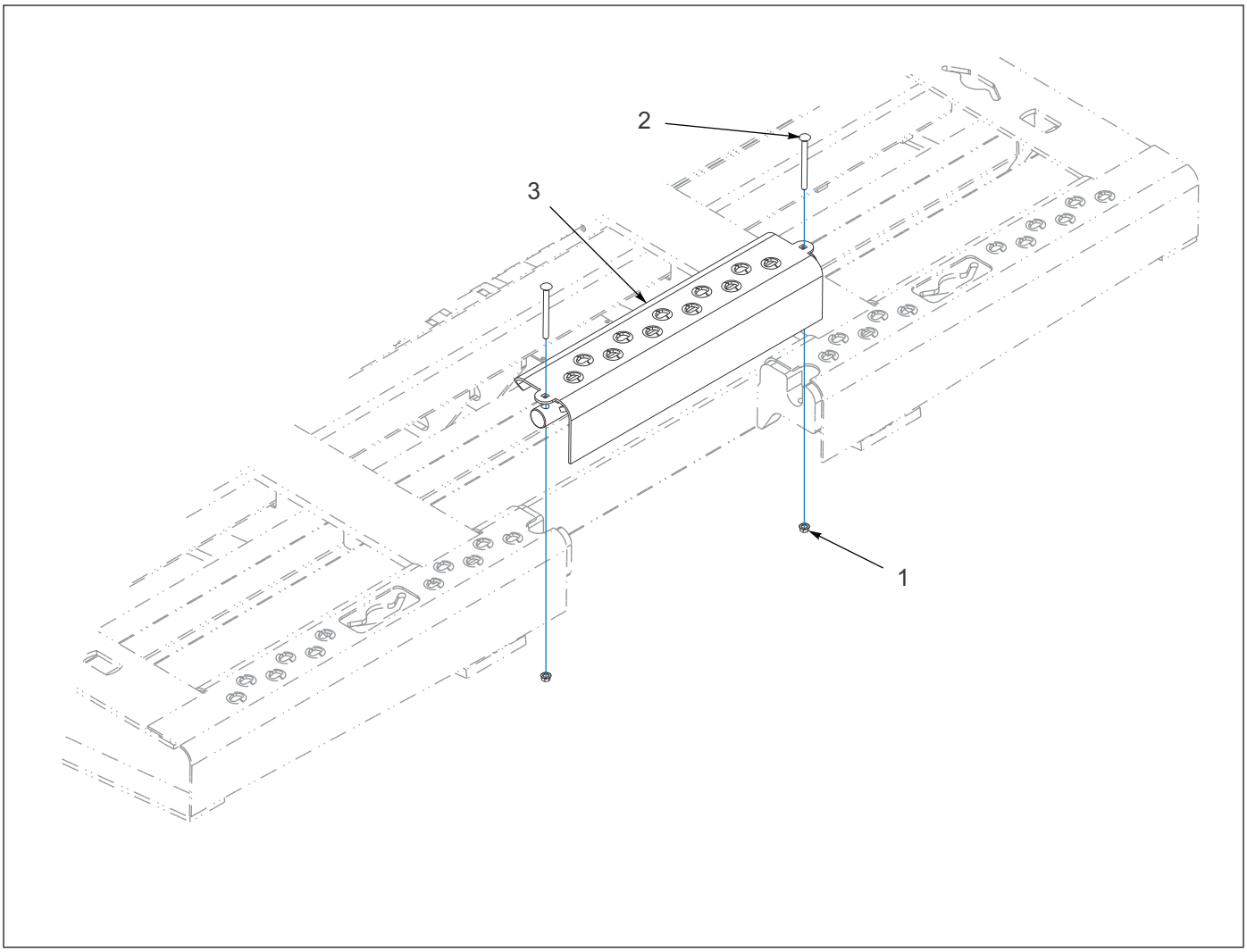


Figure 1-189: Center Rub Plate Cover

Center Rub Plate Cover

ITEM	PART NO.	DESCRIPTION	QTY.
	121697	COVER INSTALLATION CENTER RUB PLATE	- -
1	1-510-010001	NUT, FLANGE HEAD SERR 3/8-16	2
2	112013	SCREW, RD HEAD SQ NECK 3/8-16 X 4-1/2	2
3	122938	COVER WELDMENT CENTER RUB PLATE	1

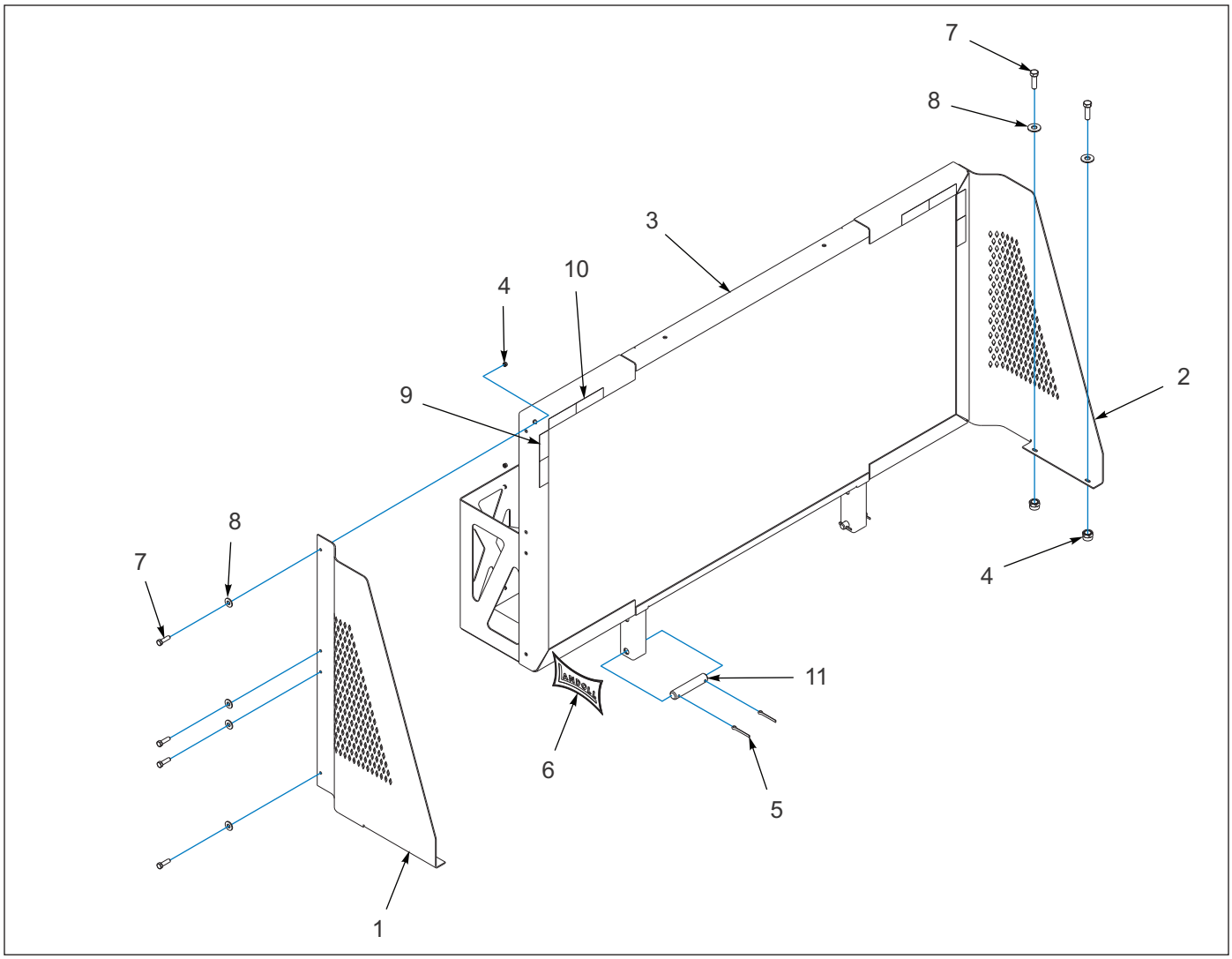


Figure 1-190: Special Bulkhead Option

Special Bulkhead Option

ITEM	PART NO.	DESCRIPTION	QTY.
	130895	SPECIAL BULKHEAD INSTALLATION	- -
1	128137	EXTENSION ALUMINUM LH BULKHEAD	1
2	128138	EXTENSION ALUMINUM RH BULKHEAD	1
3	130896	BULKHEAD WELDMENT	1
4	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
5	1-557-010362-63	PIN, COTTER 1/4 X 2	4
6	153755	DECAL, BOWTIE (BLACK/LT) REFLECTIVE	2
7	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
8	1-861-010032-11	WASHER, FLAT 3/8W	12
9	3-573-010378	DECAL, 2 X 10 REFLEXITE WHITE	AR
10	3-573-010378	DECAL, 2 X 12 REFLEXITE WHITE	AR
11	6-557-010163	PIN, HITCH LEVELING LINK	2

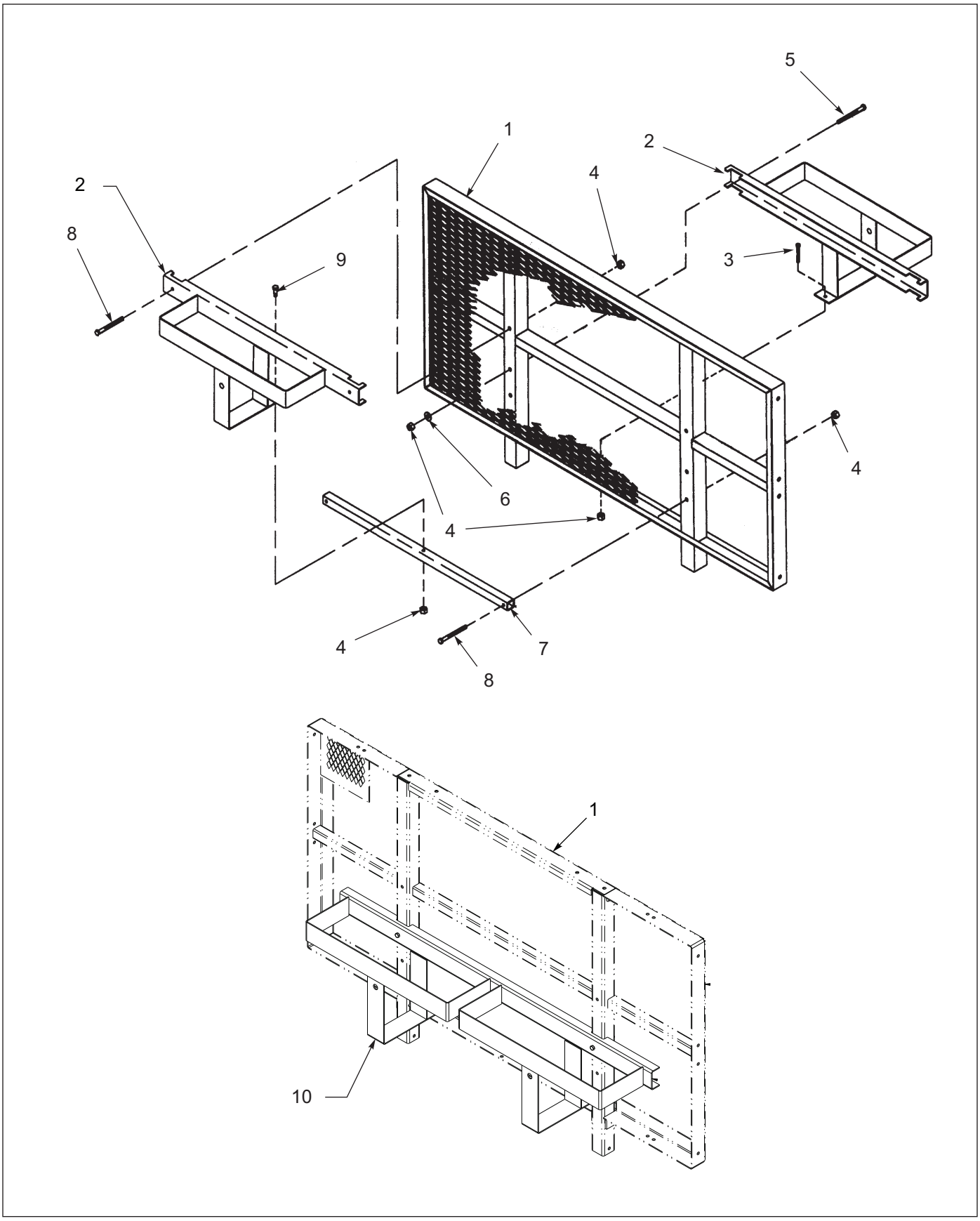


Figure 1-191: Spare Tire Carrier

Spare Tire Carrier

ITEM	PART NO.	DESCRIPTION	QTY.		
	3-612-010015-1	RACK INSTALLATION BHD, FRONT MOUNT	*		
	3-612-010015-2	RACK INSTALLATION BHD, REAR MOUNT		*	
	3-612-010015-3	RACK INSTALLATION BHD, FRONT MOUNT			*
1	- - - - -	BULKHEAD WELDMENT	REF	REF	REF
2	3-612-010016	RACK WELDMENT, BULKHEAD MOUNT	1	1	- -
3	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	1	- -	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	3	5	4
5	1-654-010055-15	SCREW, HEX HEAD CAP 1/2-13 X 5 GR5	2	- -	2
6	1-861-010032-15	WASHER, FLAT 1/2W	2	- -	2
7	3-829-010337	TUBE W/ TAB MOUNTED BULKHEAD SPARE RACK	- -	1	- -
8	1-654-010055-18	SCREW, HEX HEAD CAP 1/2-13 X 6-1/2 GR5	- -	4	- -
9	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	- -	1	- -
10	3-612-010020	RACK WELDMENT, BULKHEAD MOUNT 210/R17.5	- -	- -	1

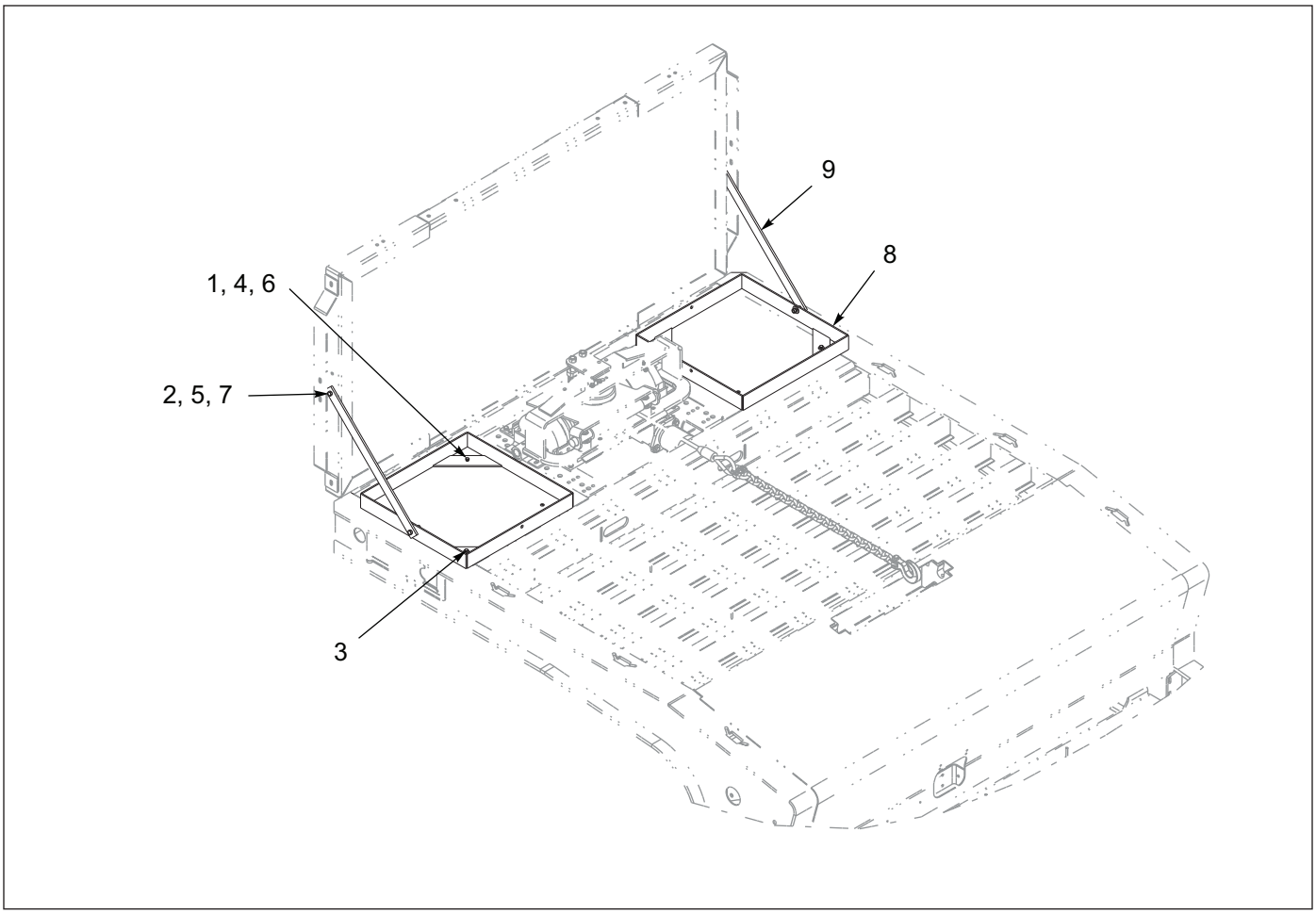


Figure 1-192: Chain Tray Assembly

Chain Tray Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	142534	CHAIN TRAY ASSEMBLY	- -
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4 **(BEFORE 02/19/2020 REQ 2 EACH) (AFTER 02/19/2020 REQ 4 EACH)**	- -
4	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5 **(BEFORE 02/19/20)**	2
5	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
6	1-861-010032-11	WASHER, FLAT 3/8W **(BEFORE 02/19/20)**	8
6	1-861-010032-10	WASHER, FLAT 3/8N N ZP/CD **(AFTER 02/19/20)**	8
7	1-861-010032-15	WASHER, FLAT 1/2W	4
8	142532	CHAIN TRAY WELDMENT, UPPER DECK	2
9	160103	BRACE, BULKHEAD TO CHAIN TRAY	2

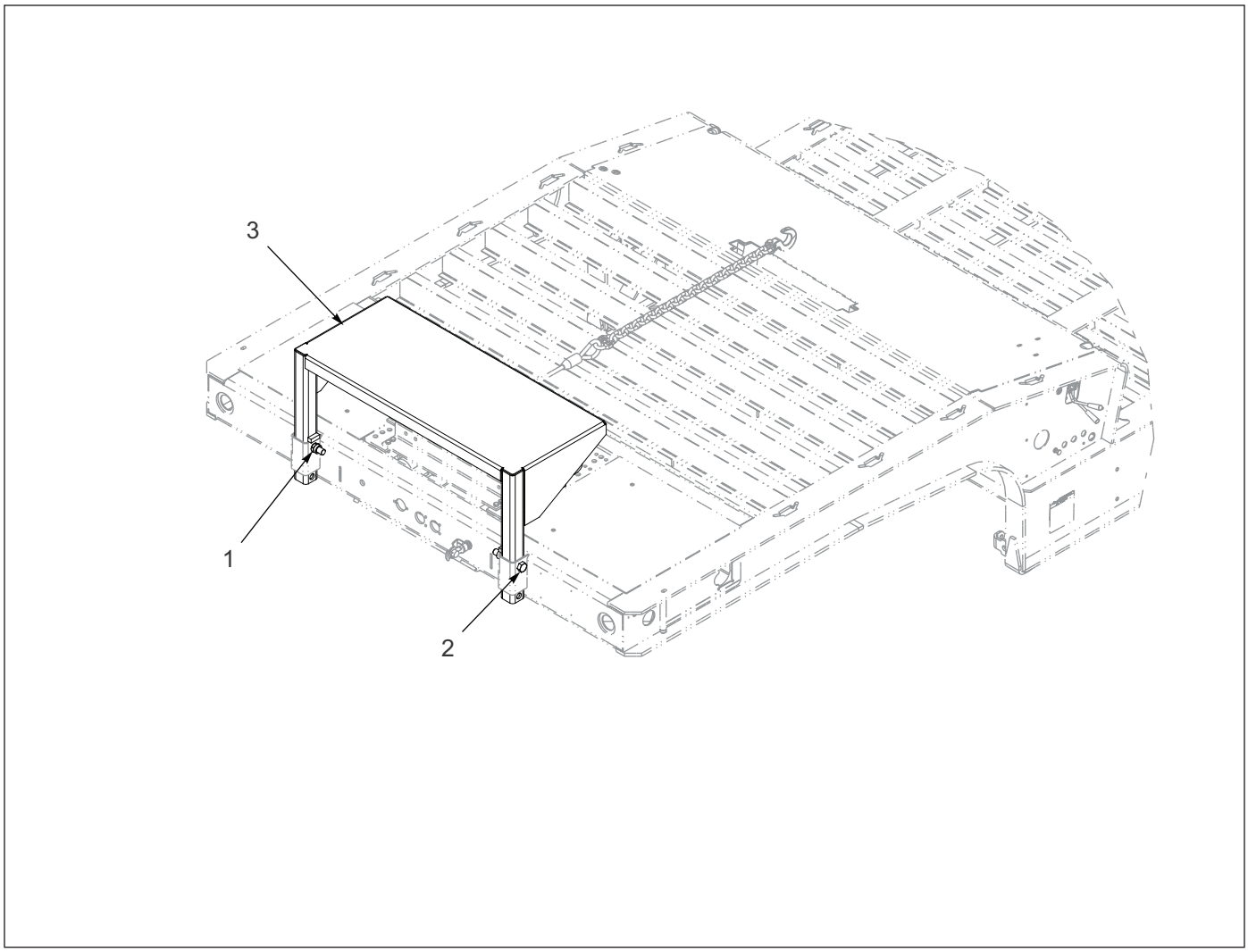


Figure 1-193: Front Pocket Platform Assembly

Front Pocket Platform Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176377	FRONT POCKET PLATFORM ASSEMBLY	- -
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1
2	1-654-010065-17	SCREW, HEX HEAD CAP 1-8 X 6 GR5	1
3	176378	SUPPORT WELDMENT, FRONT PLATFORM	1

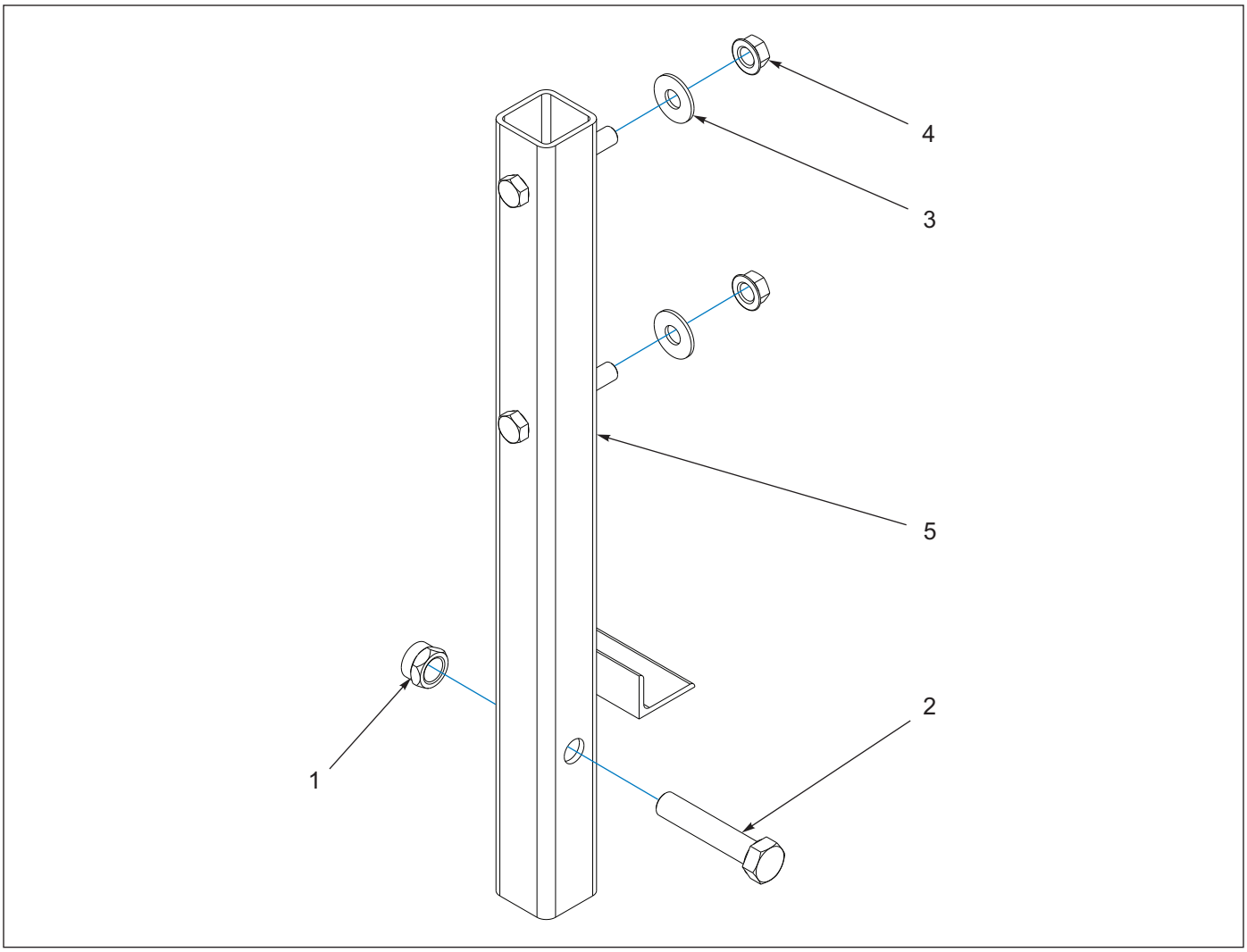


Figure 1-194: Spare Tire Mount Assembly

Spare Tire Mount Assembly

ITEM	PART NO.	DESCRIPTION	QTY.	
	130282	SPARE TIRE MOUNT ASSEMBLY	*	
	169641	SPARE TIRE MOUNT ASSEMBLY 255 TIRE		*
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1	1
2	1-654-010065-15	SCREW, HEX HEAD CAP 1-8 X 5 GR5	1	1
3	1-861-010032-21	WASHER, FLAT, 3/4W	2	2
4	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	2	2
5	130280	MOUNT WELDMENT, SPARE TIRE	1	- -
5	169639	MOUNT WELDMENT, SPARE TIRE 255	- -	1

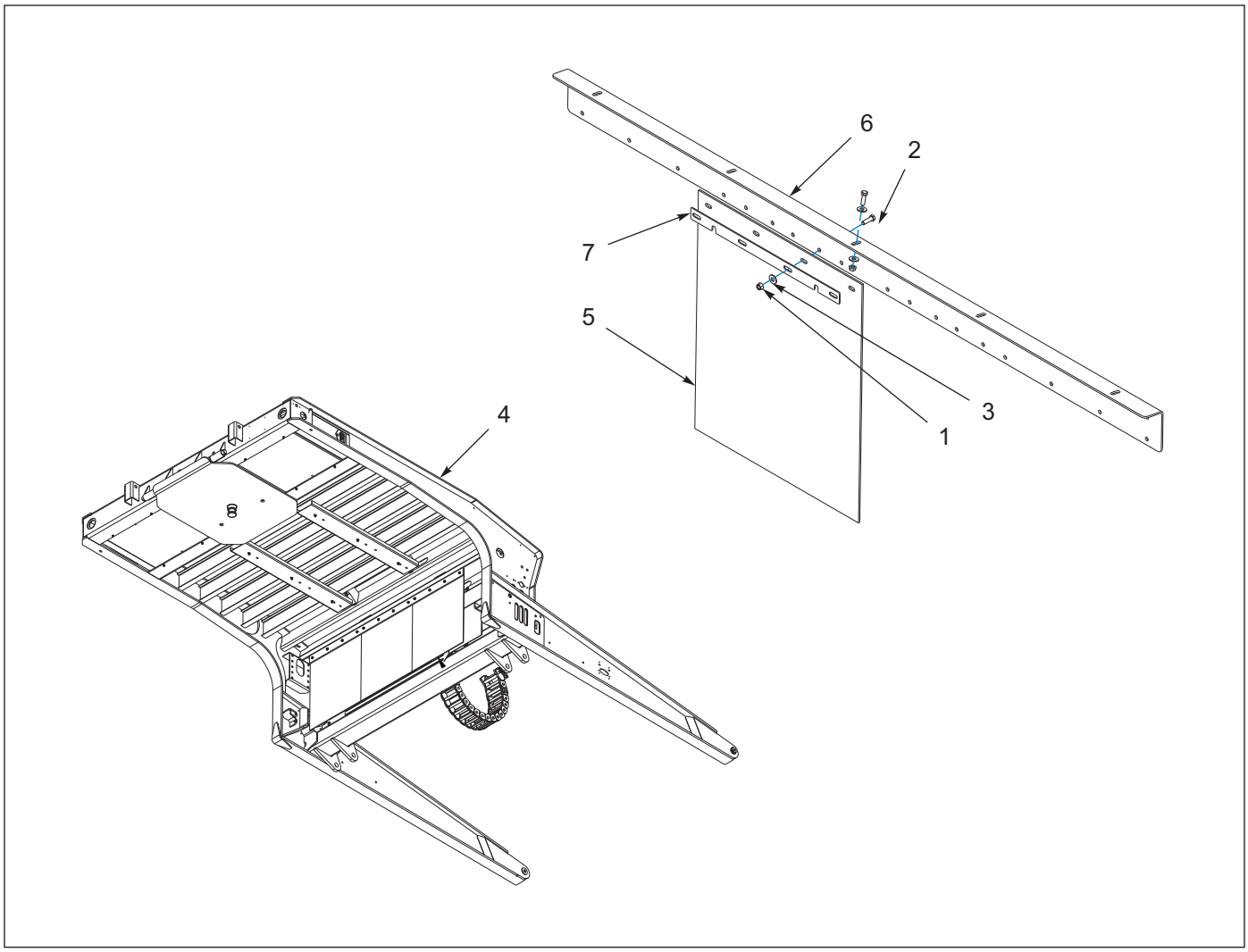


Figure 1-195: Gooseneck Mud Flap

Gooseneck Mud Flap

ITEM	PART NO.	DESCRIPTION	QTY.		
	164434	MUD FLAP INSTALLATION **(455-108)**	*		
	174597	MUD FLAP INSTALLATION **(400-102)**		*	
	180539	MUD FLAP INSTALLATION **(400-120)**			*
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	12	17	20
2	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12	17	20
3	1-861-010032-11	WASHER, FLAT 3/8W	12	22	25
4	- - - - -	G/N WELDMENT	REF	REF	REF
5	131195	MUD FLAP, BLACK POLYMER 24 X 30	3	3	4
6	180538	BRACKET, MUDFLAP G/N UNDERSIDE	- -	1	- -
7	3-762-010017	CLAMP, MUD FLAP	3	3	4

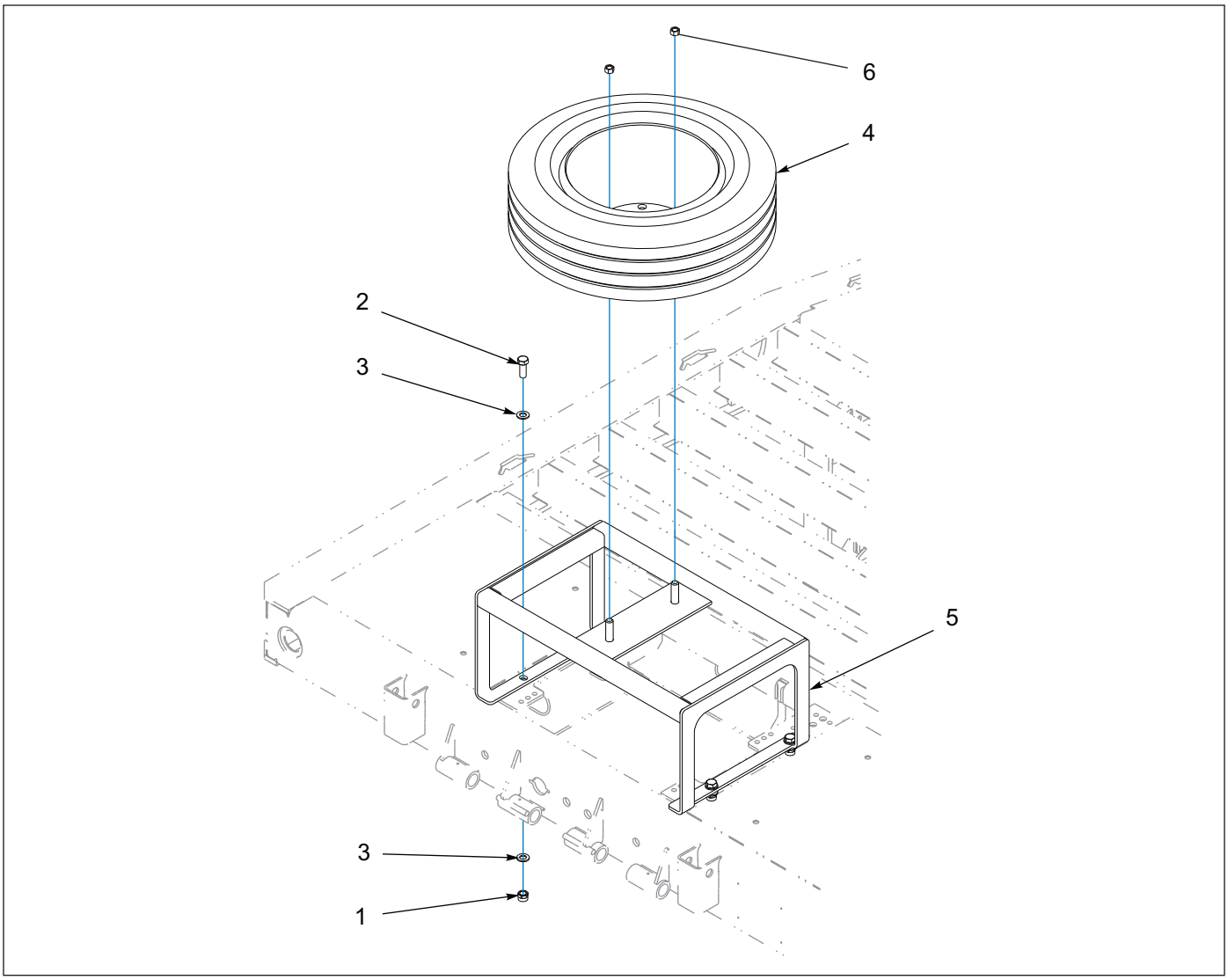


Figure 1-196: Horizontal Spare Tire Mount Assembly

Horizontal Spare Tire Mount Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	163790	HORIZONTAL SPARE TIRE MOUNT ASSEMBLY	- -
1	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
2	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
3	1-861-010032-20	WASHER, FLAT, 3/4N	2
4	- - - - -	TIRE ASSEMBLY	REF
5	163791	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1
6	179933	NUT, HEX M22 X 1.5	2

Table provided for general use.

NOTES:

LOAD CAPACITY:
SINGLE RAMP 3,000 LBS (1360 KG)
DUAL RAMP 6,000 LBS (2721 KG)

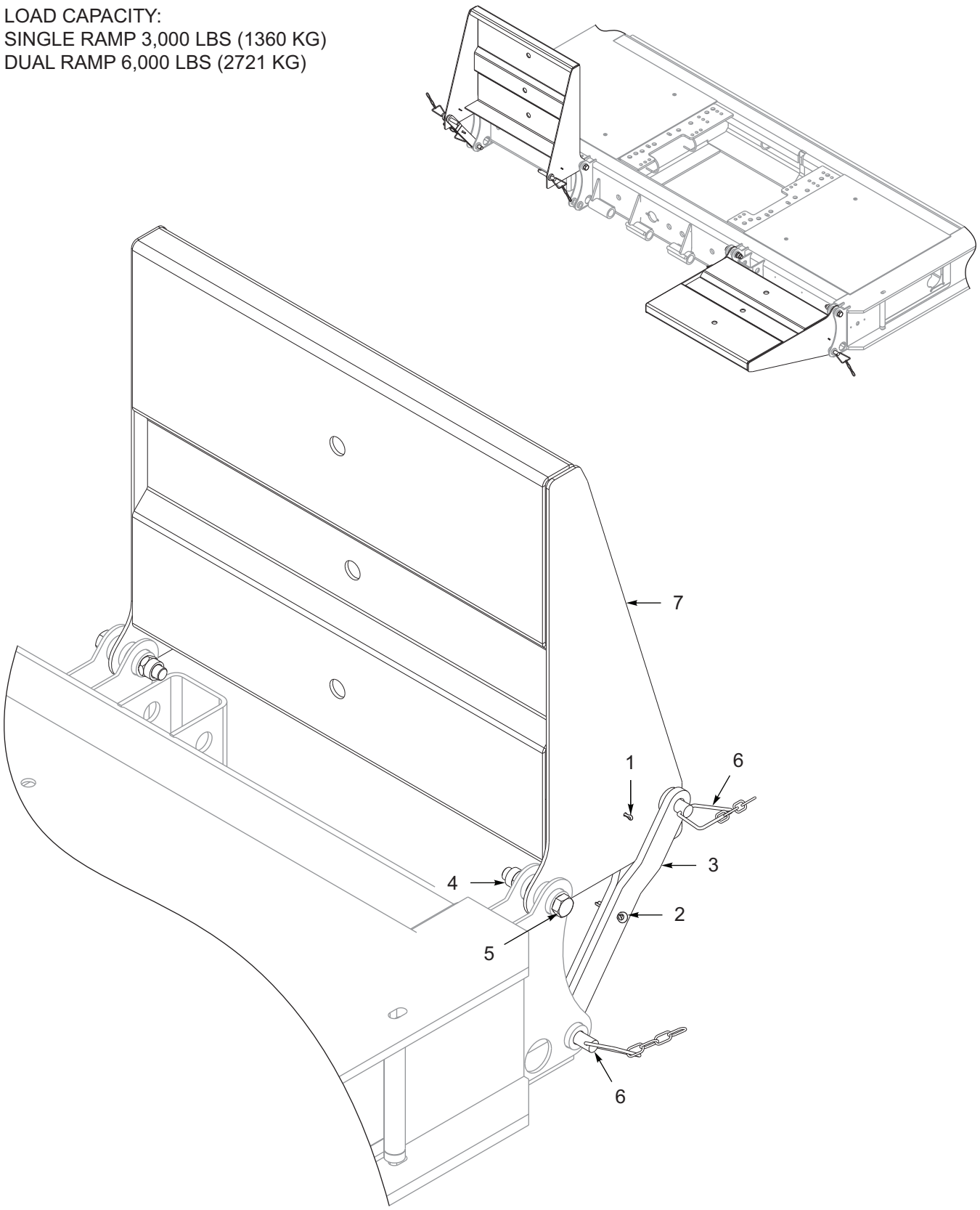


Figure 1-197: Front Flip Extension

Front Flip Extensions

ITEM	PART NO.	DESCRIPTION	QTY.
	130538	FRONT FLIP EXTENSION, 400-102 **(USED WITH WEIGHT BEARING TOOLBOX ONLY)**	- -
	174253	FRONT FLIP EXTENSION, 400-108 **(USED WITH WEIGHT BEARING TOOLBOX ONLY)**	- -
	194164	FRONT FLIP EXTENSION, 400-120 **(USED WITH WEIGHT BEARING TOOLBOX ONLY)**	- -
1	101386	PIN, COTTER, 1/8X1 **(CHAIN HOLDER)**	4
2	119084	PIN,COTTER 1/4X1-1/4 ZP **(CHAIN HOLDER) (AFTER 09/02/2020)**	2
3	185036	STRAP WLDMT FLIP EXT SUPPORT **(ADDED AFTER 09/02/2020)**	2
4	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4
5	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	4
6	2-557-010426	PIN,DETENT 5/8 DIA W/CHAIN **(INCLUDES 248260 PIN AND 248262 12" CHAIN) (BEFORE 09/02/2020, REQ 2, 1 PER EXTENSION)**	6
7	246219	EXTENSION 130540 PTD TRL COLOR **(102" WIDE)**	2
7	202714	GALV OF130540 EXT WLDM FT FLIP **(102" WIDE)**	2
7	246220	EXTENSION 174254 PTD TRL COLOR **(108" WIDE)**	2
7	202715	GALV OF174254 EXT WLDM FT FLIP **(108" WIDE)**	2
7	246221	EXTENSION 194162 PTD TRL COLOR **(120" WIDE)**	2
7	202716	GALV OF194162 EXT WLDM FT FLIP **(120" WIDE)**	2

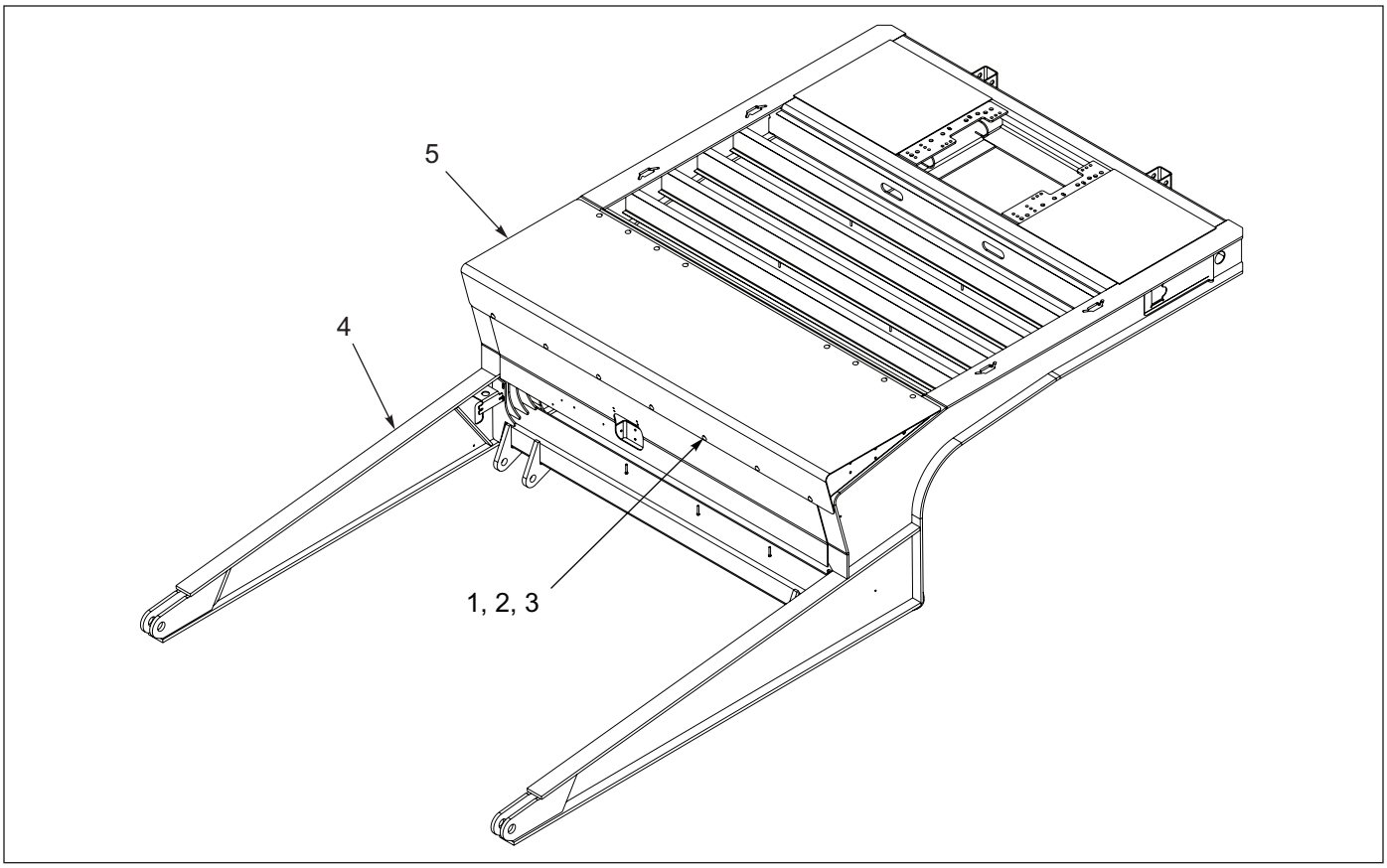


Figure 1-198: Slope Filler

Slope Filler

ITEM	PART NO.	DESCRIPTION	QTY.
	150954	SLOPE FILLER DECK INSTALLATION	- -
	150965	GALVANIZED SLOPE FILLER DECK INSTALLATION	- -
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	15
2	1-654-010070-03	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/2	15
3	1-861-010032-15	WASHER, FLAT 1/2W	15
4	- - - - -	GOOSENECK WELDMENT	REF
5	150950	SLOPE FILLER WELDMENT	1
5	150962	SLOPE FILLER WELDMENT, GALVANIZED	1

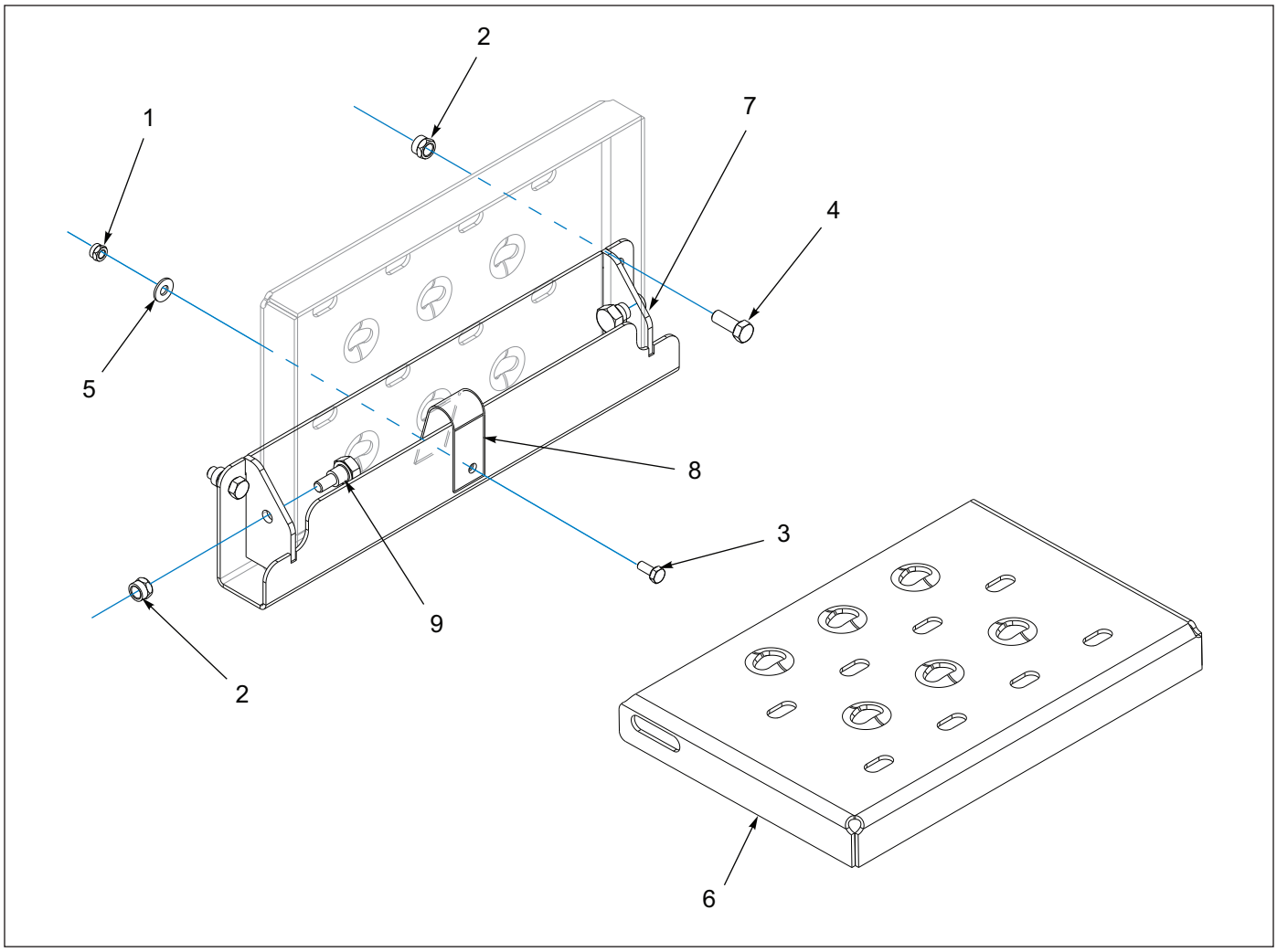


Figure 1-199: Folding Step Assembly - Double Drop Frame

Folding Step Assembly - Double Drop Frame

ITEM	PART NO.	DESCRIPTION	QTY.
	174061	STEP ASSY,FOLDING,YELLOW	- -
1	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC, GRB	1
2	1-512-010005-05	NUT, HEX, SLFLKG, 3/8-16 UNC, GRB	4
3	1-654-010047-03	SCREW, HEX, 1/4-20UNCX5/8 GR5	1
4	1-654-010051-05	SCREW, HEX, 3/8-16UNCX1 GR5	2
5	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	1
6	220292	STEP, FOLD UP, YELLOW	1
7	220291	ANCHOR, FOLDING STEP, YELLOW	1
8	174092	SPRING, STAY, FOLDING STEP	1
9	2-095-010017	SCREW, HEX, 1/2-13UNCX1 GR5	2

Table provided for general use.

NOTES:

Symbols

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0047008-03 . . . . . *1-233*
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0047008-12 . . . . . *1-233*
0047008-13 . . . . . *1-233*
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09/2019	F-544-0114	Recreated manual to use the more recent FrameMaker format.
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Equipment from Landoll Company, LLC. is built to exacting standards ensured by ISO 9001:2015 registration at all Landoll manufacturing facilities.

425B / 440 / 455 Semitrailer

Parts Manual

Re-Order Part Number F-544

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