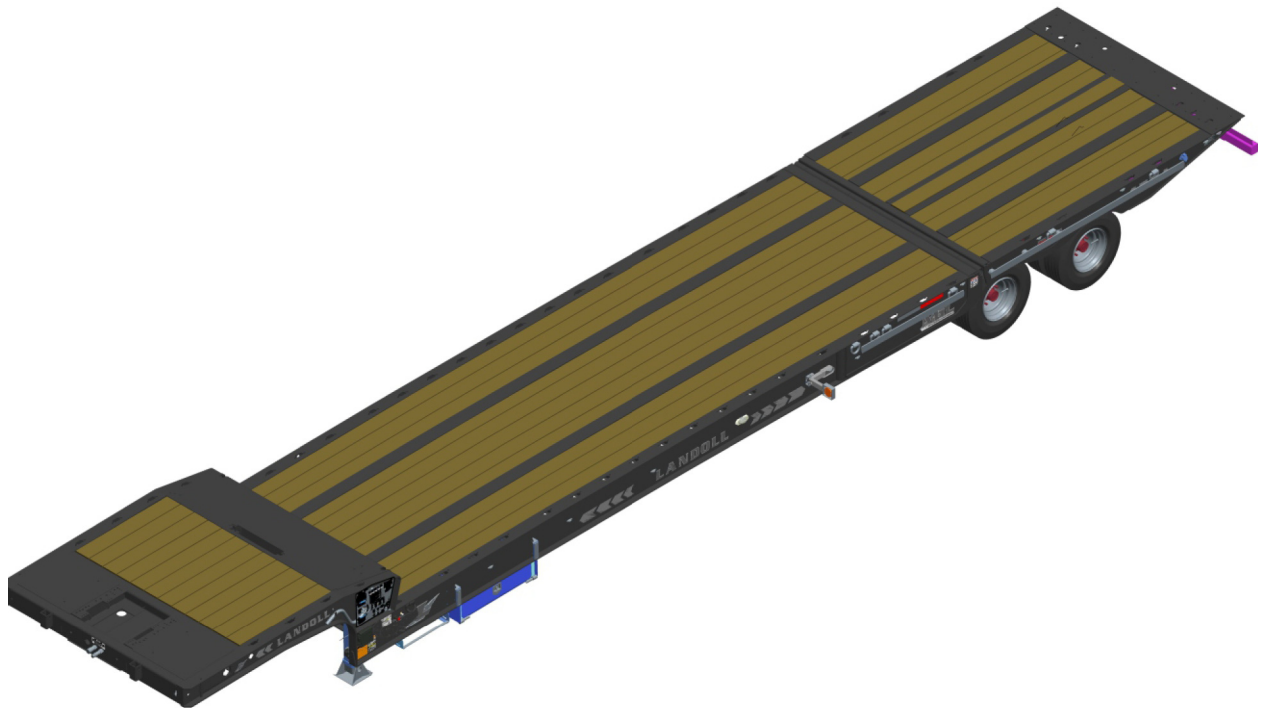




930E/950E

Hydraulic Tail Semitrailer

Parts Manual



LANDOLL COMPANY, LLC.

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ **WWW.LANDOLL.COM**

Manuals for 930E/950E Hydraulic Tail Semitrailer

Manual Number	Manual Type
F-1005	Operator's Manual
F-1004	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

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame (See Figure 1-1)

SERIAL NUMBER NOMENCLATURE

The serial number for the Model 900E Series Semitrailer is located on the identification plate.

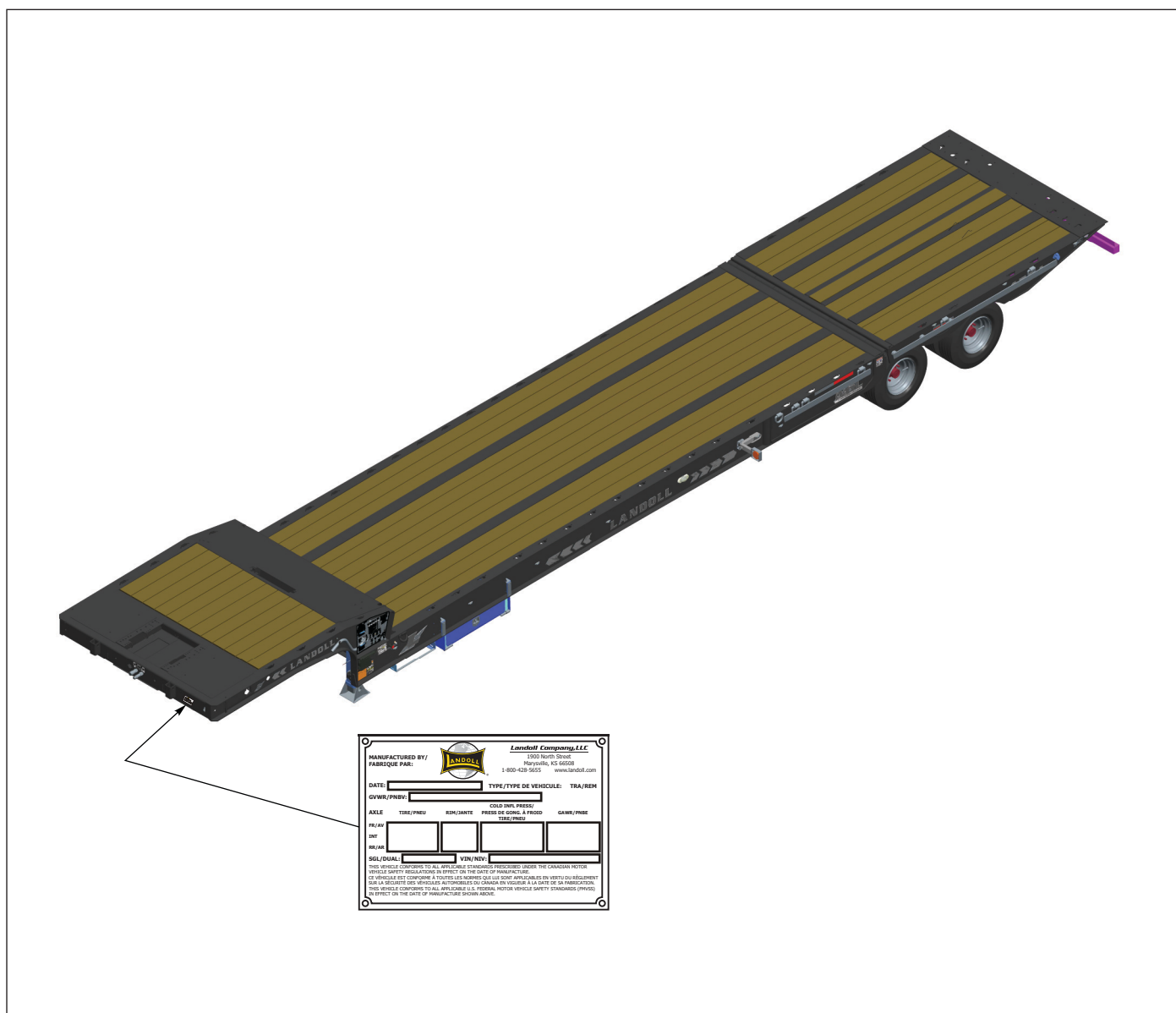


Figure 1-1: Identification Plate and Location

General Assembly

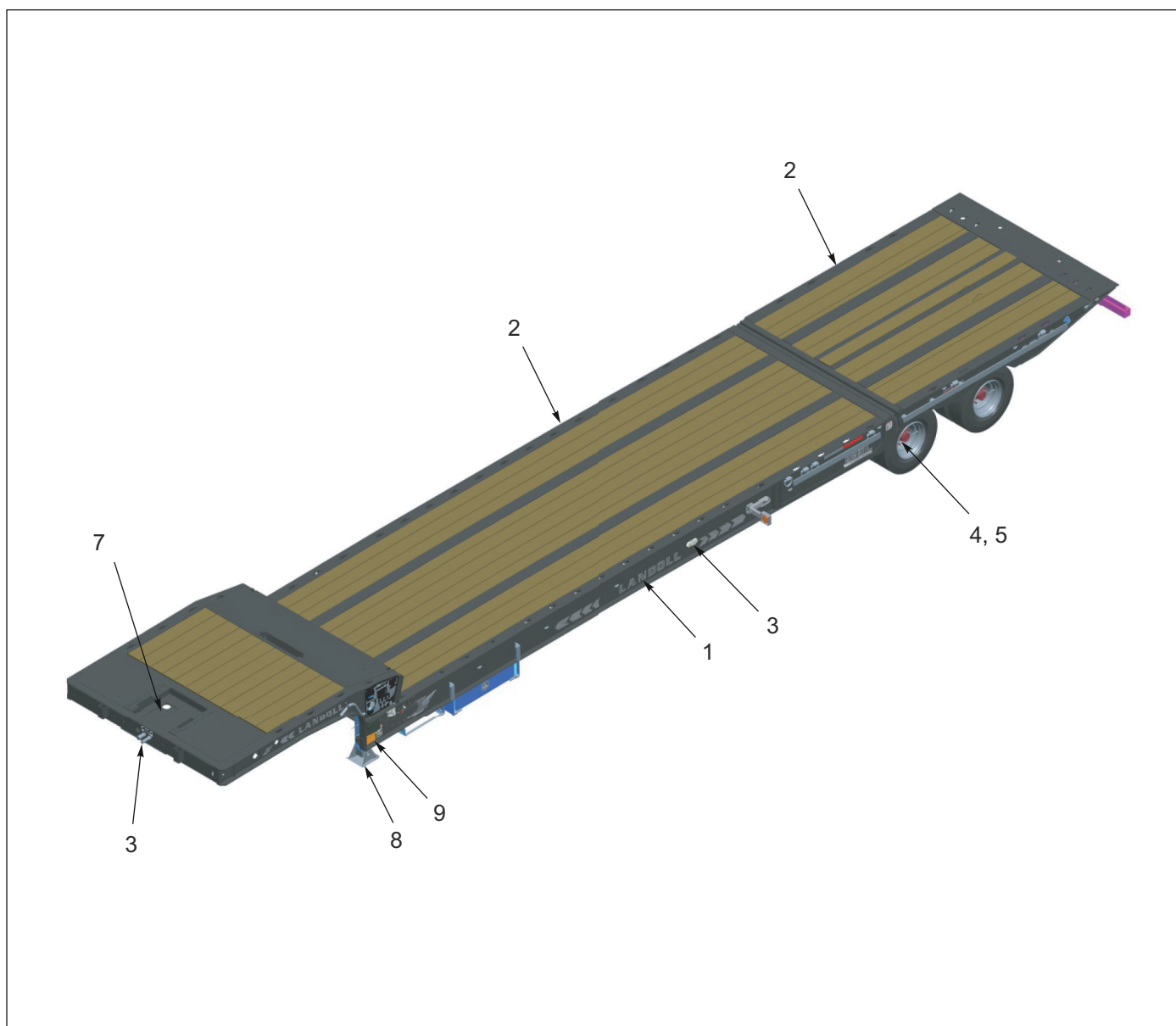


Figure 1-2: General Assembly

General Assembly

ITEM	PAGE NUMBER	DESCRIPTION	QTY.
1	1-4 - 1-9	DECAL INSTALLATION	--
2	1-10 - 1-21	FRAME & TAIL ASSEMBLY	--
3	1-22 - 1-44	HYDRAULIC, ELECTRICAL, AIR SYSTEM AND ASSEMBLIES	--
4	1-46 - 1-107	UNDERCARRIAGE ASSEMBLIES	--
5	1-108 - 1-113	AIR BRAKE SYSTEM	--
6	1-114 - 1-125	TIRE INFLATION SYSTEM	--
7	1-126 - 1-163	WINCH ASSEMBLIES	--
8	1-164 - 1-167	LANDING GEAR ASSEMBLIES	--
9	1-250 - 1-254	SCALES AND ADDITIONAL OPTIONS	--

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Decal Placement

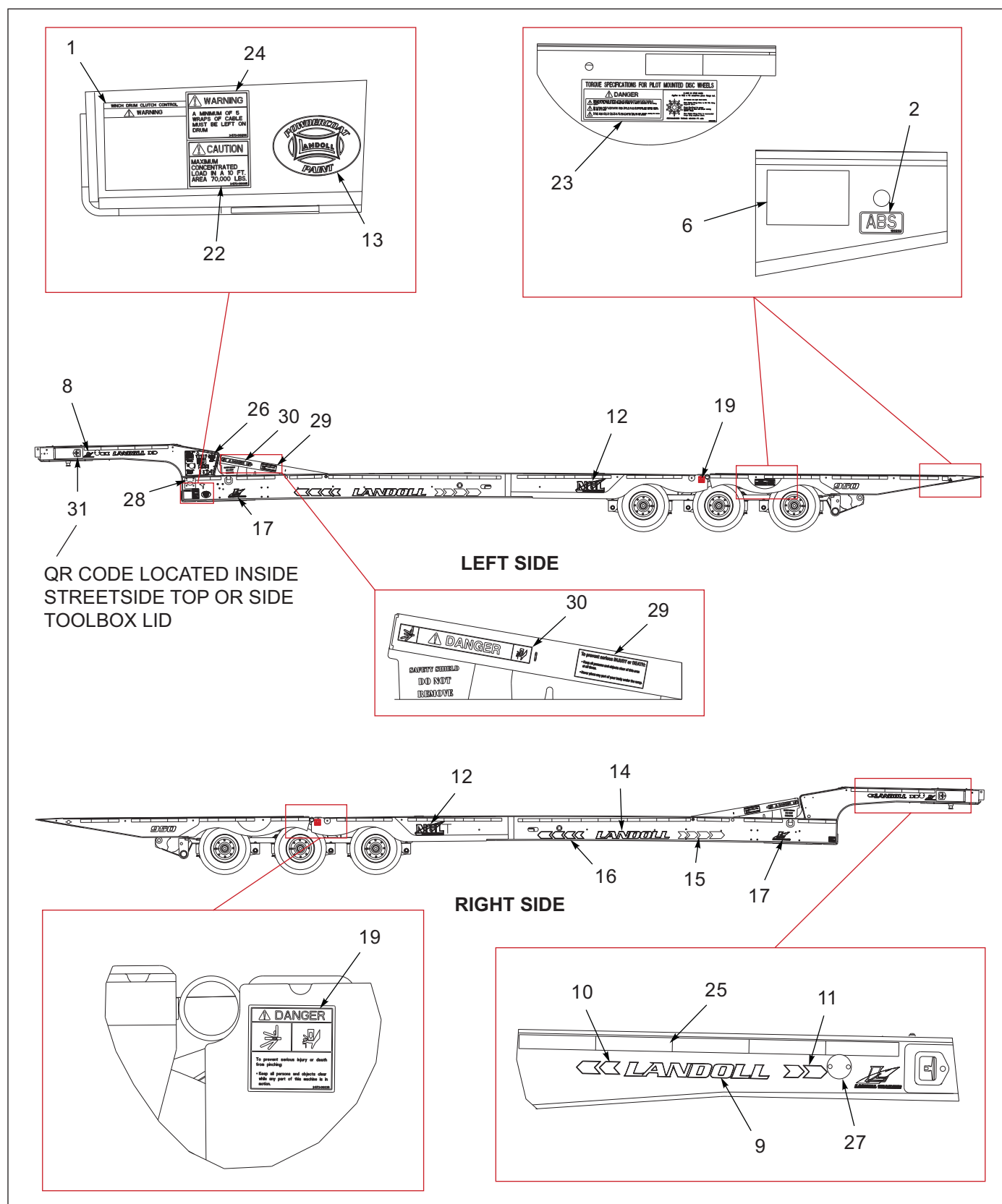
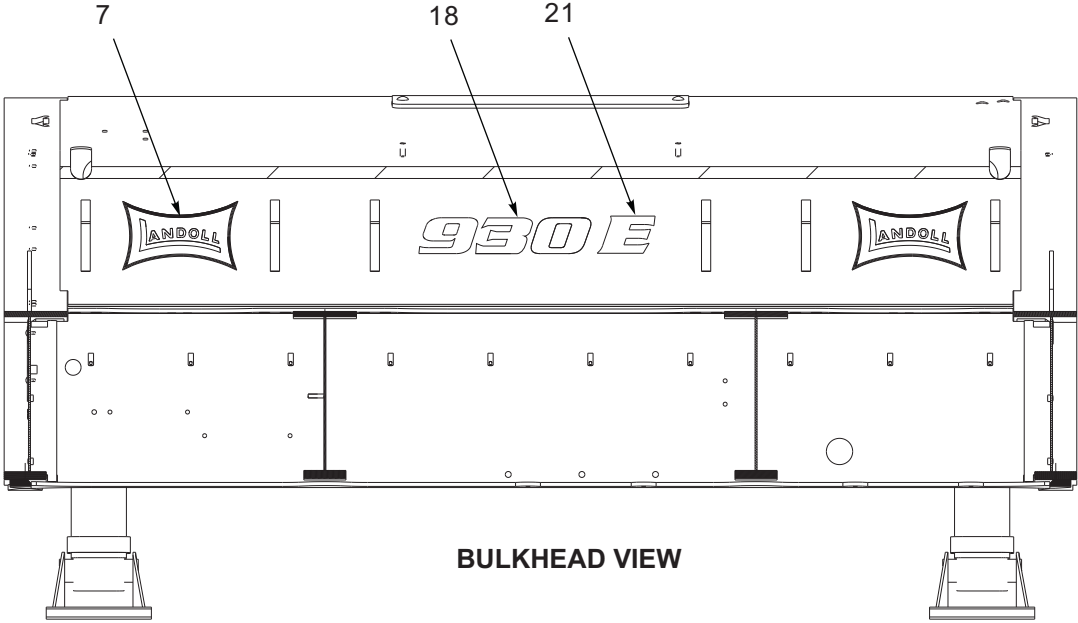
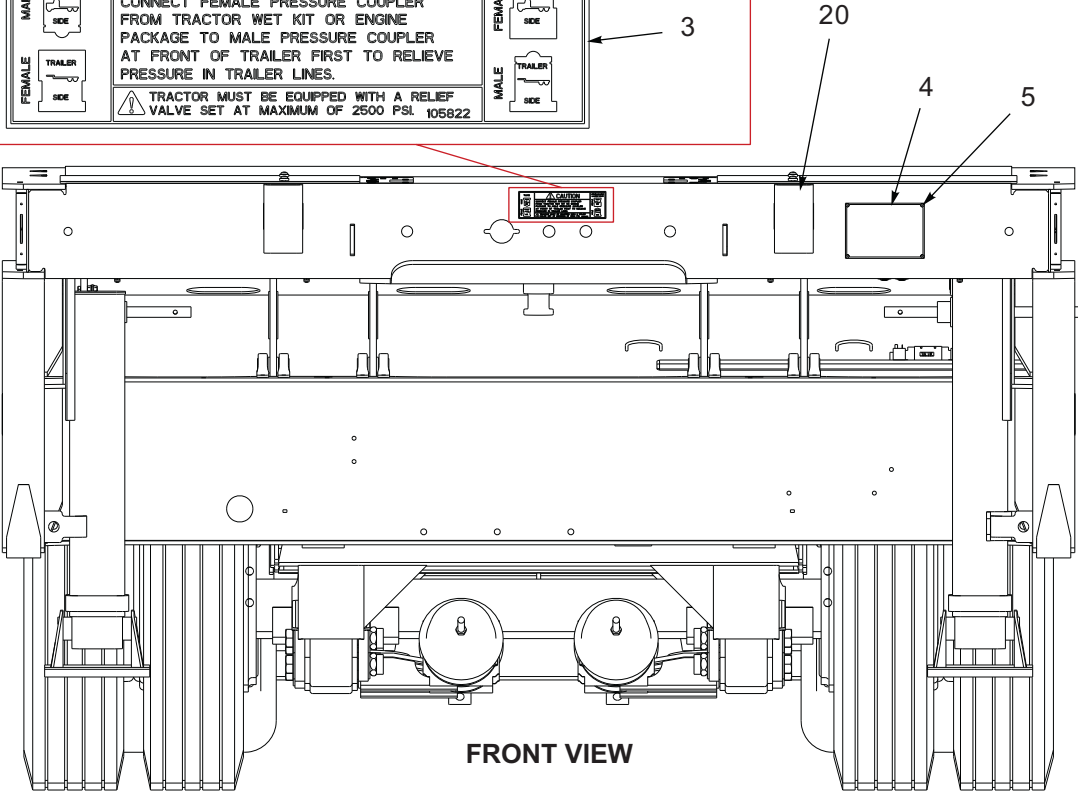
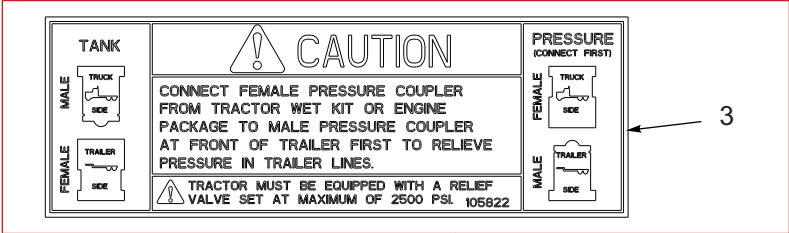


Figure 1-3: Decal Installation, Frame Assembly (1 of 3)



BULKHEAD VIEW



FRONT VIEW

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

WINCH DRUM CLUTCH CONTROL WARNING		
1	10, 11	21
TANK MALE FEMALE PRESSURE COUPLER CAUTION CONNECT FEMALE PRESSURE COUPLER FROM TRACTOR WET KIT OR ENGINE PACKAGE TO MALE PRESSURE COUPLER AT FRONT OF TRAILER FIRST TO RELIEVE PRESSURE IN TRAILER LINES. TRACTOR MUST BE EQUIPPED WITH A RELIEF VALVE SET AT MAXIMUM OF 2500 PSI. 105922		
12		CAUTION MAXIMUM CONCENTRATED LOAD IN A 10 FT. AREA 70,000 LBS. 3-573-010085 CAUTION MAXIMUM CONCENTRATED LOAD IN A 10 FT. AREA 50,000 LBS. 3-573-010349
3	13	22
Landoll Company, LLC 1900 North Street Marysville, KS 66508 1-800-428-5655 www.landoll.com DATE: TYPE/TYPE DE VEHICULE: TRA/REM GVWR/PNBV: COOL (DN) PRESS/ PRESS DE GONG A FROID AXLE TIRE/PNEU RDM/JANTE TIRE/PNEU GAWR/PMBE FR/AV INT RR/AR SGL/DUAL VIN/NEV THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION. THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS (FMVSS) IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.		
4	15, 16	23
6	18	24
7	19	25
		27
8, 17		
9, 14		31

Figure 1-5: Decal Installation, Frame Assembly (3 of 3)

Decal Installation, Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	215082	DECAL INSTL 930E	--
	215083	DECAL INSTL 930E NO LANDOLL (WO/ LARGE LANDOLL DECAL)	--
	215100	DECAL INSTL 950E	--
	215101	DECAL INSTL 950E NO LANDOLL (WO/ LARGE LANDOLL DECAL)	--
1	100600	DECAL WARNING BRADEN WINCH	1
2	101855	WARNING LAMP LABEL,ABS	2
3	105822	DECAL, HYD COUPLER (BEFORE 03/01/2022 REQ 1 EACH - AFTER NO LONGER USED)	1
4	155780	TRAILER VIN PLATE	1
5	156010	RIVET, BLIND .156X1/2 GRIP	4
6	189292	DECAL, ABS, WHITE	1
7	192208	DECAL BOWTIE 6-3/4 X 11	2
8	196165	DECAL HIGHWAY L	2
9	196167	DECAL LANDOLL SMALL	2
10	196168	DECAL ARROW SMALL 2LH	2
11	196169	DECAL ARROW SMALL 2RH	2
12	196171	DECAL NEXT GENERATION	2
13	196173	DECAL POWDERCOAT SMALL (POWDER COAT TRAILERS ONLY)	1
14	196174	DECAL LANDOLL LARGE (WO/ LARGE LANDOLL DECAL)	2
15	196175	DECAL ARROW LARGE 4RH (WO/ LARGE LANDOLL DECAL)	2
16	196176	DECAL ARROW LARGE 4LH (WO/ LARGE LANDOLL DECAL)	2
17	196177	DECAL HIGHWAY L LARGE	2
18	196178	DECAL 930 TRAILER	3
18	196181	DECAL 950 TRAILER	3
19	2-573-010335	DECAL, DANGER PINCHING	1
20	202578	REFLEXITE WHITE 3" LENGTH	2
21	215084	DECAL LETTER E (3-1/2" TALL) (930, 5 EACH) (950, 3 EACH)	5
22	3-573-010349	DECAL, CAUTION 50M#/10 FT (930)	2
22	3-573-010085	DECAL, CONC LOAD 70000 LBS (950)	2
23	3-573-010210	DECAL TORQUE SPEC 8-10STU HUB	2
24	3-573-010299	DECAL, WARNING WINCH CABLE	1
25	3-573-010377	DECAL,2"REFLEXITE TAPE,RD/WHT (BY THE INCH)	--
26	214488	PLACARD CONTROL PANEL 900E	1
27	193912	PLATE, COVER, SWINGOUT LIGHT	--
28	189253	PLATE, COVER,WEIGHT SCALE	1
29	225921	DECAL DANGER RAMP	2
30	225922	DECAL DANGER	2
31	225937	DECAL, QR CODE 900 SERIES	1

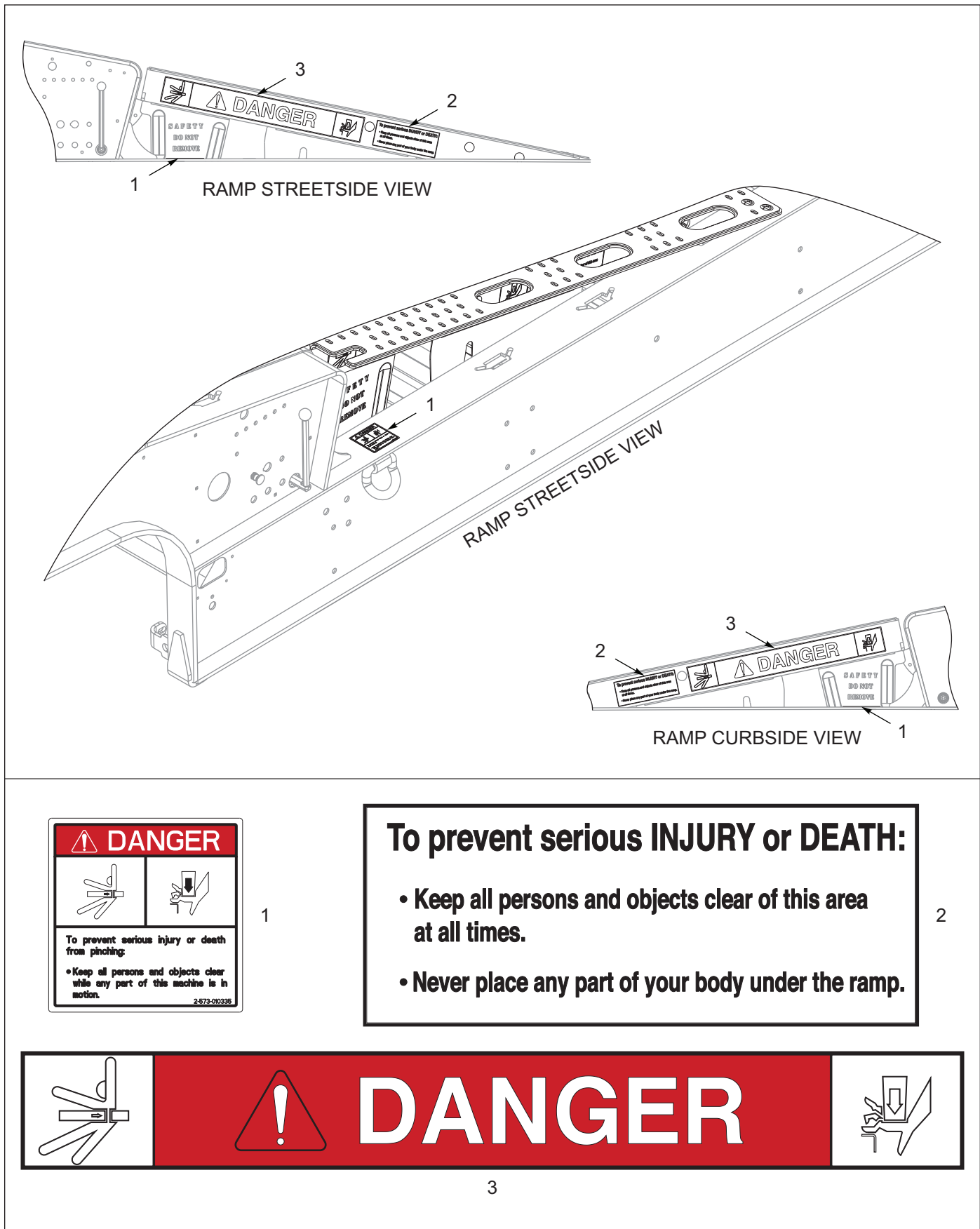


Figure 1-6: Decals, Ramp Assembly, Air 6FT

Decal Installation, Ramp Assembly, Air 6FT

ITEM	PART NUMBER	DESCRIPTION	QTY.
	230695	RAMP INSTL 900 6FT 102" TRLCLR	--
	230696	RAMP INSTL 900 6FT 102" GALV	--
1	2-573-010335	DECAL, DANGER PINCHING	2
2	225921	DECAL DANGER RAMP	2
3	225922	DECAL DANGER	2

Frame Assemblies

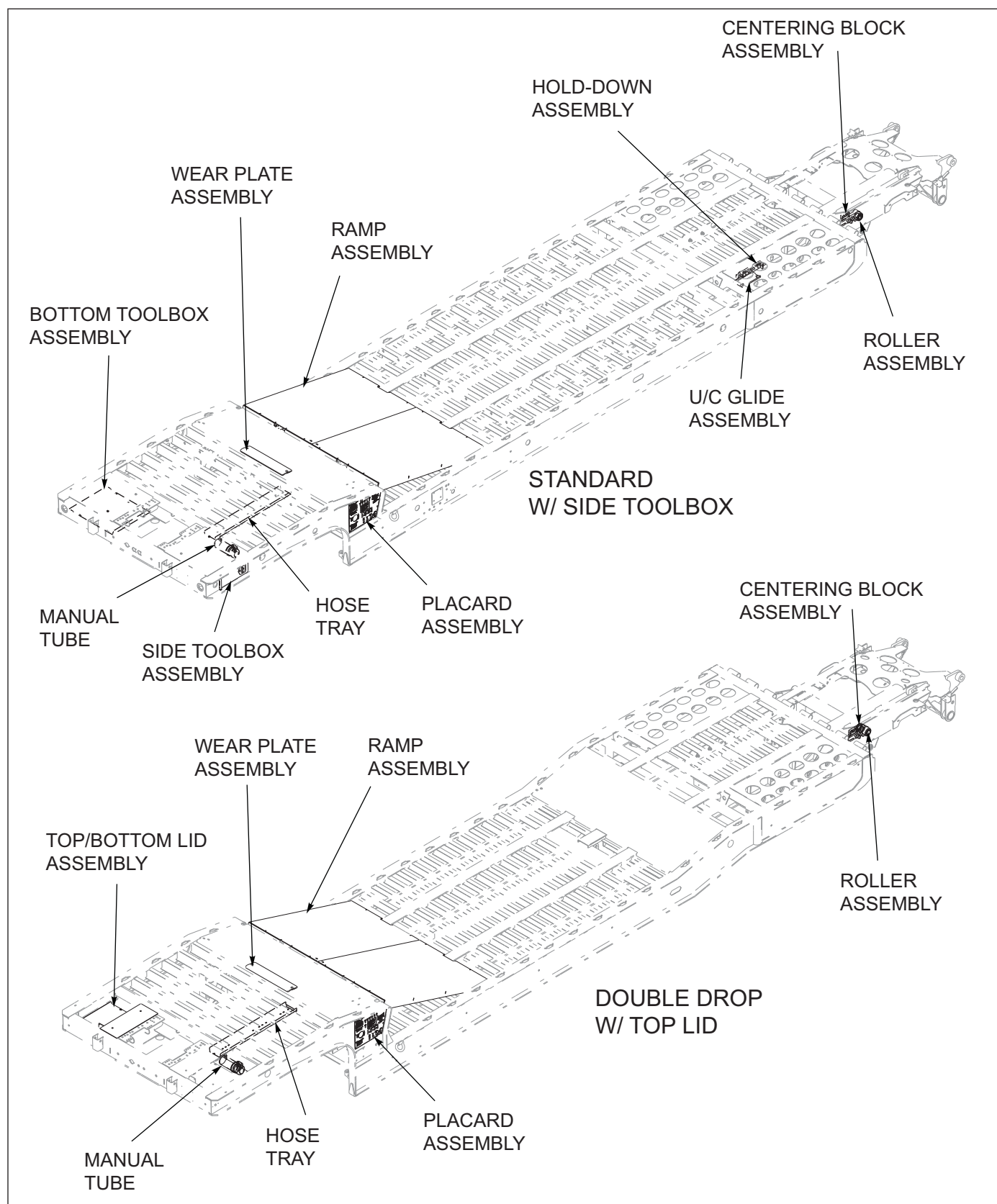


Figure 1-7: Frame Assembly (1 of 3)

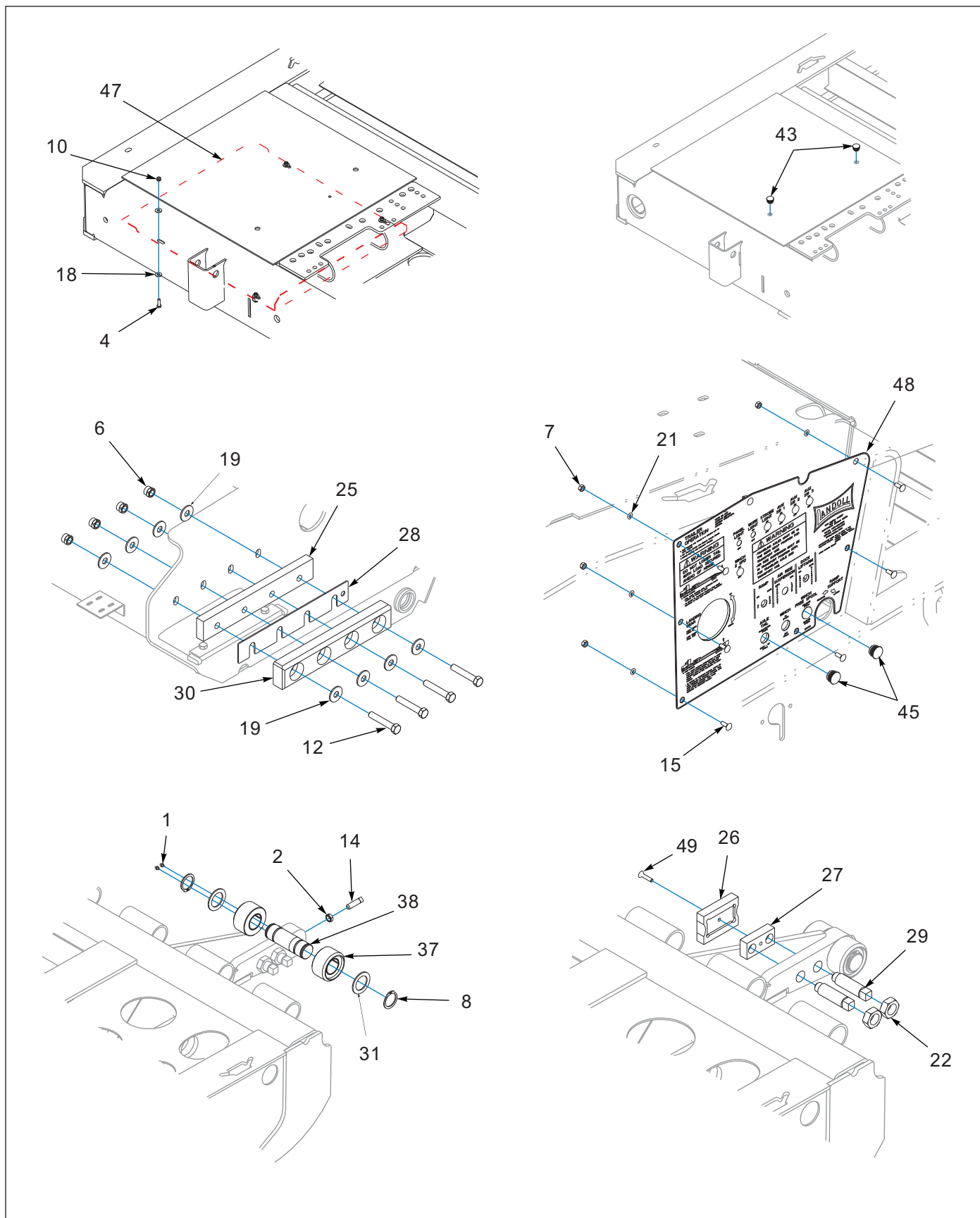


Figure 1-8: Frame Assembly (2 of 3)

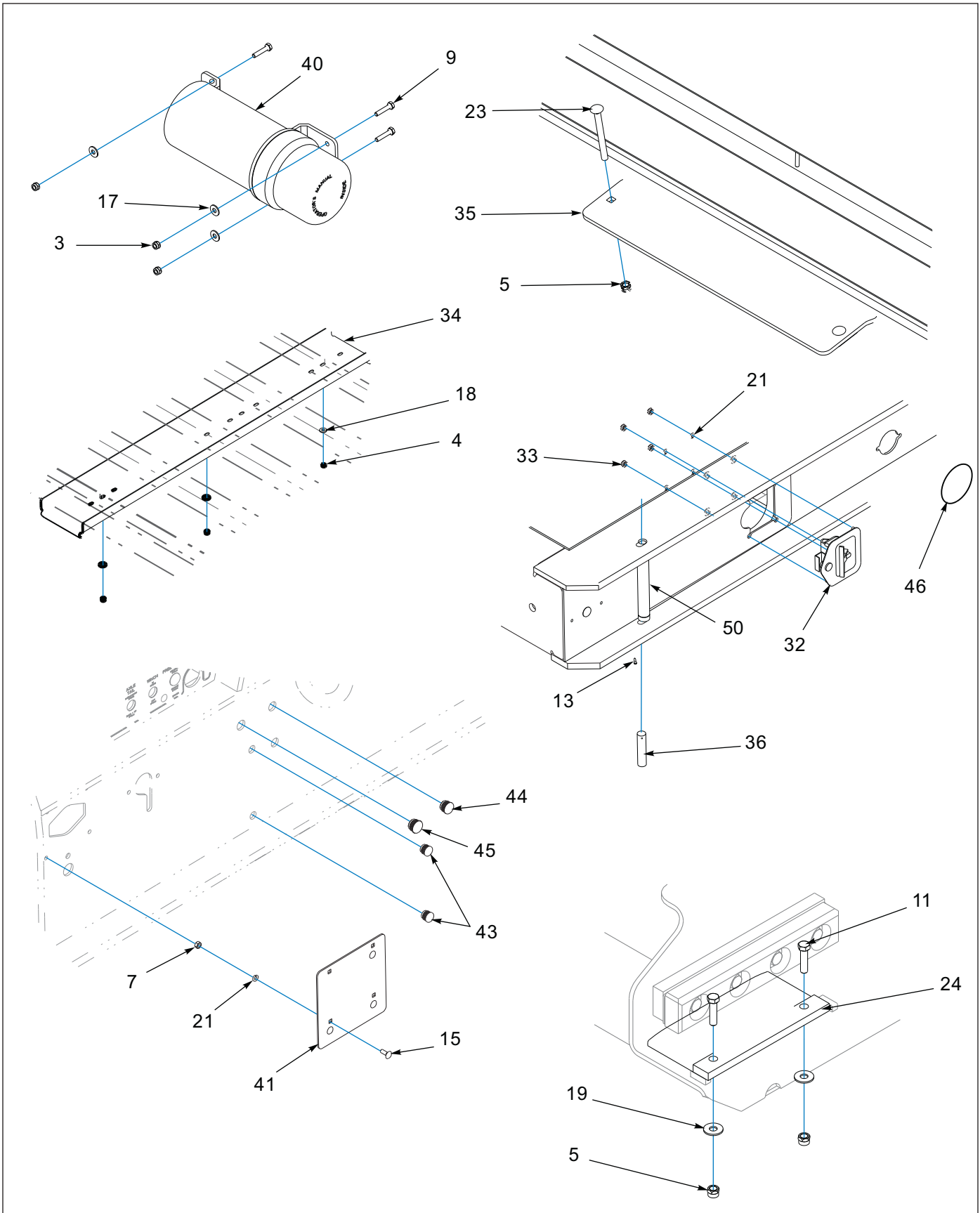


Figure 1-9: Frame Assembly (3 of 3)

Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	214489	FRAME ASSEMBLY 930E-36 SD	--	
	215528	FRAME ASSEMBLY 930E-36 DD TL		--
	215262	FRAME ASSEMBLY 950E-38 TL		--
	215111	FRAME ASSEMBLY 950E-36 TL		--
	215594	FRAME ASSEMBLY 950E-33 SIDE TLBX	--	
1	1-298-010001-1	FITTING, GREASE, 1/4-28 STR SHORT	4	4
2	1-511-010001-07	NUT, HEX, JAM 5/8-11	2	2
3	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC GRB	6	6
4	1-512-010005-03	NUT, HEX, SLFLKG, 5/16-18 UNC, GRB	11	11
5	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	2	2
6	1-512-010005-13	NUT, HEX, SLFLKG, 5/8-11 UNC, GRB	8	8
7	1-512-010007-05	NUT, HEX, 1/4-20 UNC, GR2	10	10
8	1-630-010021-02	RING, RETAINING 2 HD	4	4
9	108610	SCREW	6	6
10	1-654-010049-05	SCREW, HX CP, 5/16-18UNC X 1, GR5	8	8
11	1-654-010055-05	SCREW, HEX, 1/2-13UNCX2, GR5	REF	REF
12	1-654-010059-11	SCREW, HEX, 5/8-11UNCX3-1/2, GR5	8	8
13	1-654-010147-06	SCREW RDHD SLF/TPG#6-20X3/4	8	--
14	1-654-010150-05	SCEW, SET, 5/8-11X2 SQHD CP PNT	2	2
15	1-654-010158-1	SCREW RDHD, SQ NCK, 1/4-20X3/4	10	10
16	1-822-010001	TR IM 1350 3/8BLK FI NE PEBBLE	10	10
17	1-861-010032-07	WASHER,FLAT,ZP/CD, 1/4W	6	6
18	1-861-010032-08	WASHER,FLAT,ZP/CD,5/16N	19	19
19	1-861-010032-15	WASHER,FLAT,ZP/CD, 1/2W	2	2
20	1-861-010032-19	WASHER, FLAT, ZP/CD, 5/8W	16	16
21	1-861-010034-09	WASHER,LKG,HLCL SPR, 1/4	10	10
22	100823	NUT,HEX JAM, 1-1/4-7 GR2	4	4
23	100939	SCREW,RDH,SQ NK, 1/2-13X5 1/2	2	2
24	107621	GLIDE U/C 930	REF	REF
25	107622	BLOCK MTG NYLATRON HOLD-DOWN	2	2
26	108700	BLOCK, CENTER I NG NYLATRON	2	2
27	108701	BLOCK, CENTER I NG ADJUSTMENT	2	2
28	108749	SHIM, NYLATRON BLOCK 930	2	2
29	109004	ROD, THREADED ADJUSTMENT	4	4
30	109138	NYLATRON HOLD-DOWN BLOCK	2	2
31	114562	BUSH I NG MACH I NERY HARDENED	4	4
32	114814	LATCH FOLDING T LOCKABLE	2	--
33	115877	NUT, HVY HEX I/ 4-20 GR5	8	8
34	117565	COVER, HOSE LOWER, 410 G/N	1	1
34	145104	COVER, HOSE UPPER, 410 (HD ONLY)	REF	REF
35	131196	PLATE, WINCH CABLE WEAR U/D 400	1	1
36	135181	BUSHING,NYLATRON TOOLBOX	4	--
37	135613	ROLLER 4 IN. ASSY CONNEX	4	4
38	135614	PIN, ROLLERS, REAR 930 FRAME	2	2
39	139465	RAMP ASSY 6FT 900 (SEE PAGE 1-225)	1	1
40	150076	MANUAL HOLDER 14-1/4" ID)	2	2
41	189253	PLATE,COVER,WEIGH SCALE	1	1
42	189278	PLUG,PLASTIC PANEL 1/2-9/16	5	5

Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
43	189279	PLUG,PLASTIC PANEL 5/8	20	20
44	189280	PLUG,PLASTIC PANEL 3/4	1	1
45	189281	PLUG.PLASTIC PANEL 13/16	2	2
46	204158	HOLE PLUG 2-1/4" ID X 3-5/8" OD	4	4
47	213500	G/N TOOLBOX BOTTOM PLATE	2	2
48	214488	PLACARD CONTROL PANEL 900E	1	1
49	108294	SCREW HXSKT 3/8-16UNCX1-3/4CS	2	2
50	136352	DOOR WLDMT TOOLBOX 400 RMW	2	--
50	240517	GALV OF 136352 (DOOR)	2	--

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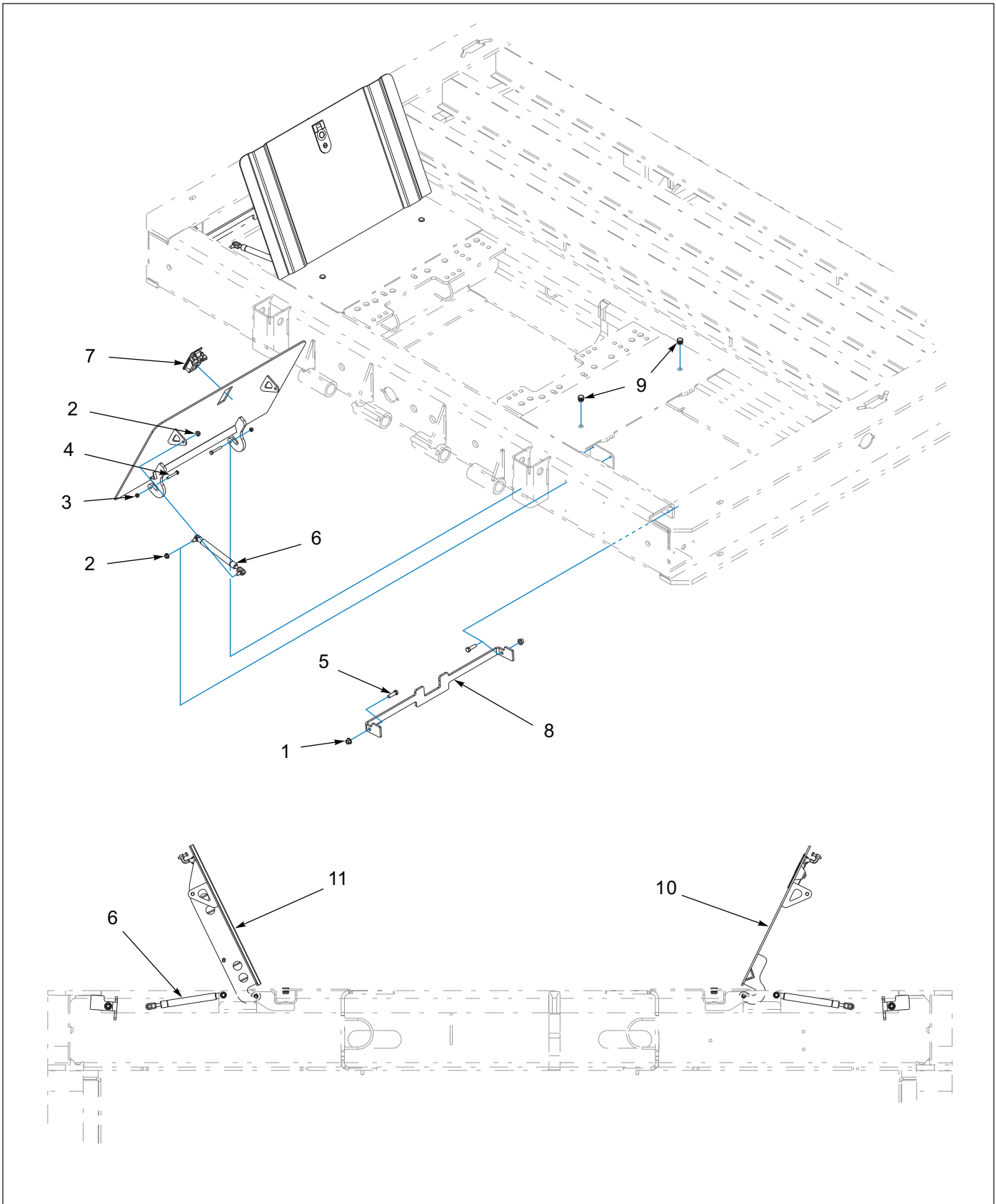


Figure 1-10: Top Lid - Standard Installation

Top Lid - Standard Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	213987	TOP LID INSTL NON WT BRG	--	
	213988	TOP LID INSTL EURO WT BRG		--
1	1-510-010001	NUT, 3/8 -16 UNC FLANGE LOCK	4	4
2	1-510-010004-03	NUT,FLG HD, SPIRALOCK,5/16 -18 UNC	4	4
3	1-512-010005-01	NUT,HEX,SLFLKG, I /4-20 UNC,GRB	4	4
4	1-654-010047-09	SCREW.HEX, I /4-20UNCXI -3/4 GR5	4	4
5	1-654-010051-06	SCREW,HEX,3/8 -16UNCXI -I /4 GR5	4	4
6	110435	BT CONSOLE LIFT,GAS SPRING	2	2
7	118853	LATCH, COMPRESSION	2	2
8	176069	CHAIN HOLDER, TOP OPEN TOOLBOX	2	2
9	189279	PLUG, PLASTIC PANEL 5/8	4	4
10	213496	NWB TLBX LID WLDMT	2	--
11	213502	EURO TLBX DOOR WLDMT	--	2

Tail Assemblies

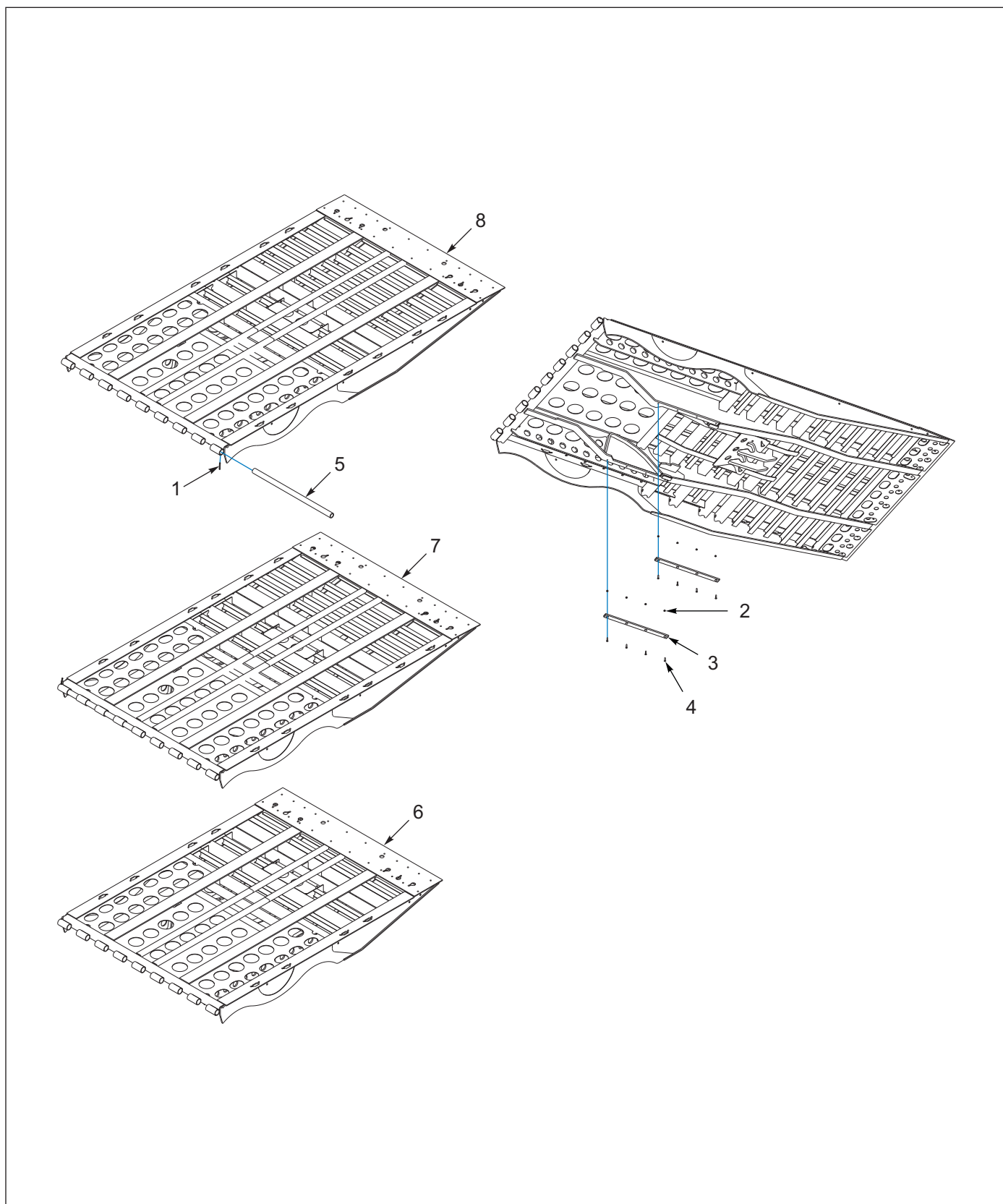


Figure 1-11: Tail Assembly, WO/Center Gotcha Plate

Tail Assembly, WO/Center Gotcha Plate

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	195848	TAIL ASSEMBLY 900-12FT 235 TIRE	--	
	195849	TAIL ASSEMBLY 900-12FT 255 TIRE		--
	195850	TAIL ASSEMBLY 900-14FT 235 TIRE	--	
	195851	TAIL ASSEMBLY 900-14FT 255 TIRE		--
	195852	TAIL ASSEMBLY 900-15FT 235 TIRE	--	
	195853	TAIL ASSEMBLY 900-15FT 255 TIRE		--
1	1-647-010004259	ROLL PIN, SLTD,3/8X3	2	2
2	107470	NUT, SPIRALOCK 3/8-16HX	8	8
3	107660	GLIDE U/C 930	2	2
4	108294	SCREW, SKT HD 3/8-16X1-3/4	8	8
5	113214	TUBE, RD, 2-3/8 X 1-3/4 X 49-3/8	2	2
6	195807	TAIL WLDMT 12 FT. 235	1	--
6	195809	TAIL WLDMT 12 FT. 255	--	1
7	195812	TAIL WLDMT 14 FT. 235	1	--
7	195814	TAIL WLDMT 14 FT. 255	--	1
8	195817	TAIL WLDMT 15 FT. 235	1	--
8	195819	TAIL WLDMT 15 FT. 255	--	1

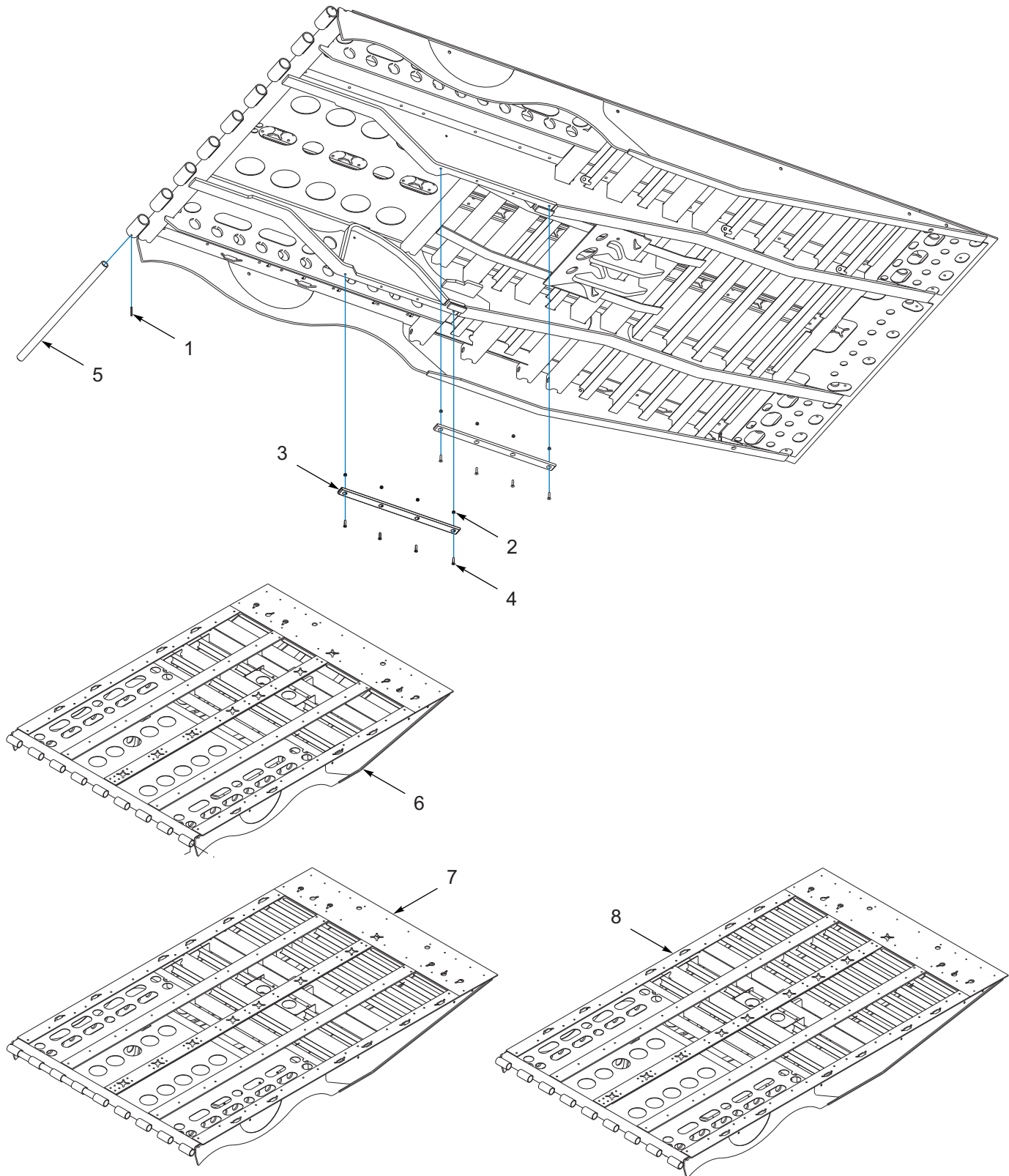


Figure 1-12: Tail Assembly, W/Center Gotcha Plate

Tail Assembly, W/Center Gotcha Plate

ITEM	PART NUMBER	DESCRIPTION	QTY.
	222951	TAIL ASSY 900-12FT 235 TIRE	--
	222952	TAIL ASSY 900-12FT 255 TIRE	--
	222953	TAIL ASSY 900-14FT 235 TIRE	--
	222954	TAIL ASSY 900-14FT 255 TIRE	--
	222955	TAIL ASSY 900-15FT 235 TRLCLR	--
	222956	TAIL ASSY 900-15FT 255 TIRE	--
	222957	TAIL ASSY 900-12FT 235 GALV	--
	222958	TAIL ASSY 900-12FT 255 GALV	--
	222959	TAIL ASSY 900-14FT 235 GALV	--
	222960	TAIL ASSY 900-14FT 255 GALV	--
	222961	TAIL ASSY 900-15FT 235 GALV	--
	222962	TAIL ASSY 900-15FT 255 GALV	--
1	1-647-010004259	SPRING PIN, SLOTTED 3/8X3	2
2	107470	NUT, SPIRALOCK 3/8-16HX	8
3	107660	GLIDE U/C 930	2
4	108294	SCREW HXSKT 3/8-16UNCX1-3/4CS	8
5	113214	TUBE RD 2-3/8X1-3/4X49-3/8	2
6	219310	TAIL WLDMT 900-12FT 235	1
6	219311	GALV OF 219310 (12' TAIL)	1
6	219312	TAIL WLDMT 900-12FT 255	1
6	219313	GALV OF 219312 (12' TAIL)	1
7	221022	TAIL WLDMT 900-14FT 235	1
7	221023	GALV OF 221022 (14' TAIL)	1
7	221024	TAIL WLDMT 900-14FT 255	1
7	221025	GALV OF 221024 (14' TAIL)	1
8	220408	TAIL WLDMT 900-15FT 235	1
8	220442	GALV OF 220408 15'TAIL 235	1
8	220409	TAIL WLDMT 900-15FT 255	1
8	220443	GALV OF 220409 15'TAIL 255	1

Hydraulic Electrical Air

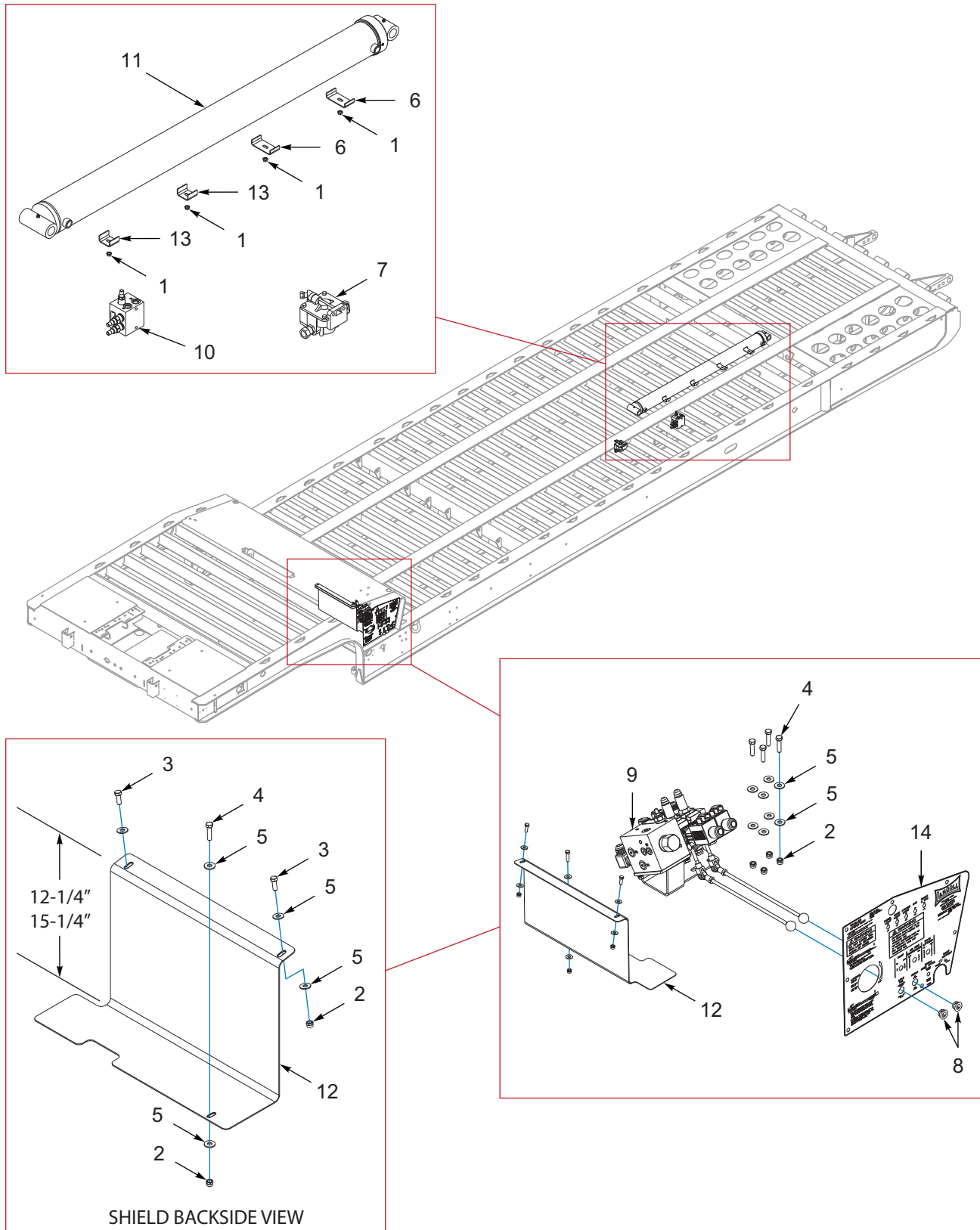


Figure 1-13: General Assembly - Hydraulic, Electric, Air

General Assembly - Hydraulic, Electric, Air

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT (REF 1)	--
	215071	HYD ELEC AIR 900E-33RMT SLPENG (REF 2)	--
	215069	HYD ELECT AIR 900E-38HD RMT (REF 3)	--
	215227	HYD ELEC AIR 900E-35HD RMT (REF 4)	--
	215077	HYD ELEC AIR 900EHD RMT SLPENG (REF 5)	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	7
3	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	2
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	5
5	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	14
6	103817	CLAMP,HOSE 660 U/C	2
7	141607	VALVE ASSY AIR BOOSTER (SEE PAGE 1-42)	1
8	178444	BUSHING NYLON INSERT 9/16ID	2
9	194395	VALVE ASSY 2-SPOOL CONTROL	1
10	194400	VALVE COUNTER-BALANCE/RELIEF	1
11	194401	CYLINDER 5 X 60	1
12	195725	SHIELD VALVE 900 (12-1/4") (REF 1-2)	1
12	195726	SHIELD VALVE 900HD (15-1/4") (REF 3-5)	1
13	2-181-010001	HOSE CLAMP	2
14	214488	PLACARD CONTROL PANEL 900E	1

NOTES:
 HYDRAULIC CYLINDER RETRACT OPERATION SHOWN
 (AXLE AHEAD / TAIL DOWN)
 RED = PRESSURE
 BLUE = RETURN

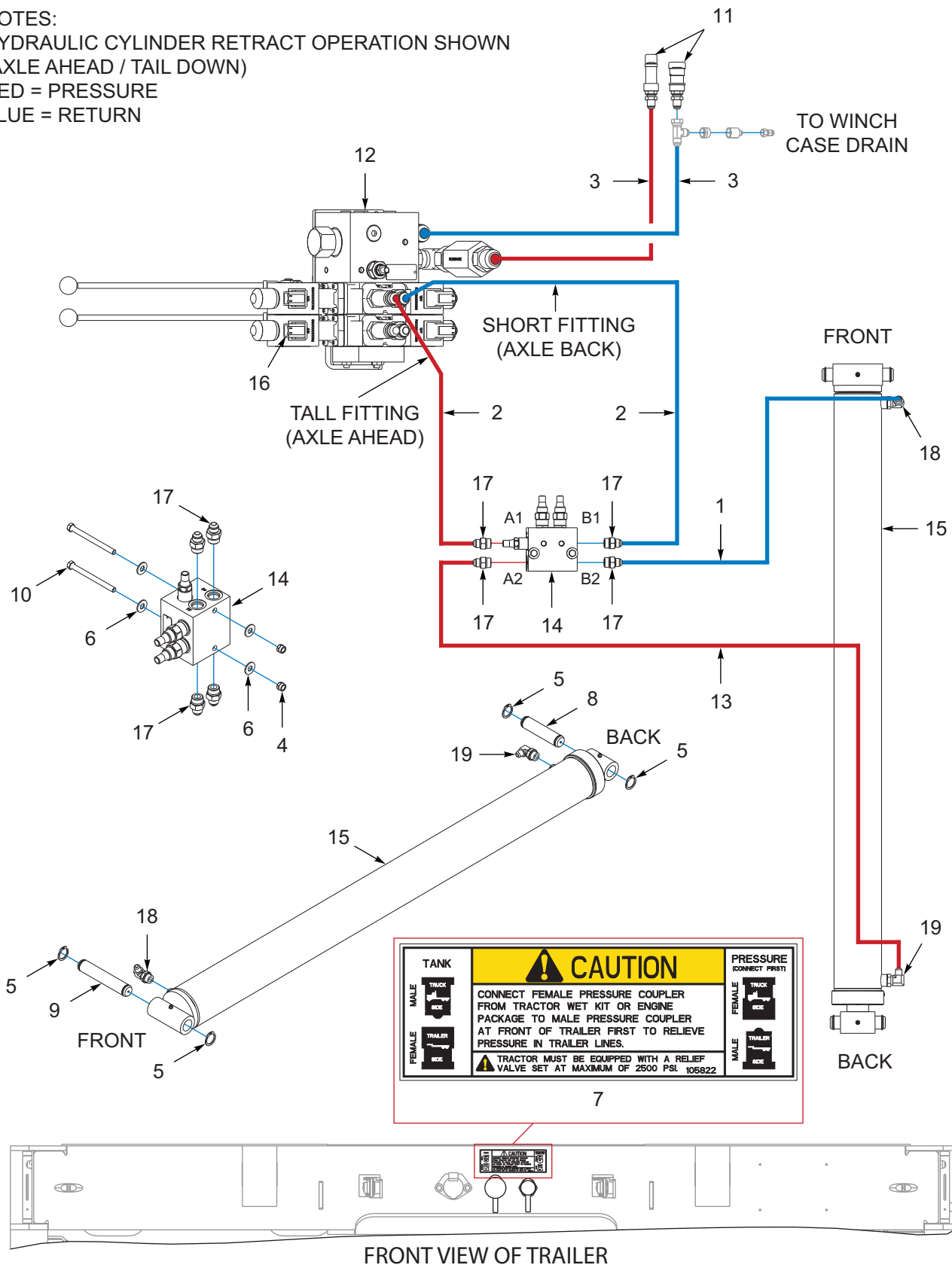


Figure 1-14: Hydraulic System - Axle / Tail Travel

Hydraulic System - Axle / Tail Travel

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT (REF 1)	--
	215065	HYD ELEC AIR 900E-36 RMT (REF 2)	--
	215067	HYD ELEC AIR 900E-38 RMT (REF 3)	--
	215069	HYD ELEC AIR 900E-HD RMT (REF 4)	--
	215071	HYD ELEC AIR 900E-33 RMT SLP ENG (REF 5)	--
	215073	HYD ELEC AIR 900E-36 RMT SLP ENG (REF 6)	--
	215075	HYD ELEC AIR 900E-38 RMT SLP ENG (REF 7)	--
	215077	HYD ELEC AIR 900E-HD RMT SLP ENG (REF 8)	--
	215227	HYD ELEC AIR 900E-35 HD RMT (REF 9)	--
1	1-397-010302084	HOSE ASSY,1/2X84,SAE37,STR-90	1
2	1-397-010302206	HOSE ASSY,1/2X206 SAE37,STR90 (REF 1, 5, 9)	2
2	100062	HOSE ASSY 1/2X286,SAE37,STR90 (REF 3, 7)	2
2	101014	HOSE ASSY,1/2X248,SAE37,STR90 (REF 2,4,6,8)	2
3	1-397-010305164	HOSE ASSY,3/4X164,SAE37,STR90 (REF 4, 9)	2
3	136224	HOSE ASSY 3/4X136 SAE37 STR90 (REF 1-3)	2
4	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
5	1-630-010021-01	RING, 1.5 RETAINING HD	4
6	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
7	105822	DECAL, HYD COUPLER (BEFORE 03/01/2022 REQ 1 EACH - AFTER NO LONGER USED)	1
8	107657	PIN 1-1/2X6-3/8	1
9	107658	PIN 1-1/2X8-1/4	1
10	129698	SCREW,HXCP,3/8-16UNCX4-1/2GR5	2
11	143163	CONNECTORS FRONT SUB ASSY (REF 1-4, 9) (SEE PAGE 1-41) (BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED)	1
11	238642	COUPLERS ISO FRONT SUB ASSY (REF 1-4, 9) (SEE PAGE 1-41) (AFTER 03/01/2022 - REPLACES 143163)	1
12	194395	VALVE ASSY 2-SPOOL CONTROL (SEE PAGE 1-43)	1
13	107756	HOSE ASSY,1/2X24,SAE37,STR-90	1
14	194400	VALVE COUNTER-BALANCE/RELIEF	1
15	194401	CYLINDER 5 X 60 (SEE PAGE 1-40)	1
16	194407	PLUG ASSY DUMMY DEUTSCH 2 PIN (FOR NON-REMOTE APPLICATIONS)	4
17	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	4
18	202702-12-8S	ADAPTER, #12 O-RING #8 TUBE	1
19	2062-12-8S	ADAPTER,90,#12 O-RING-#8 TUBE	1

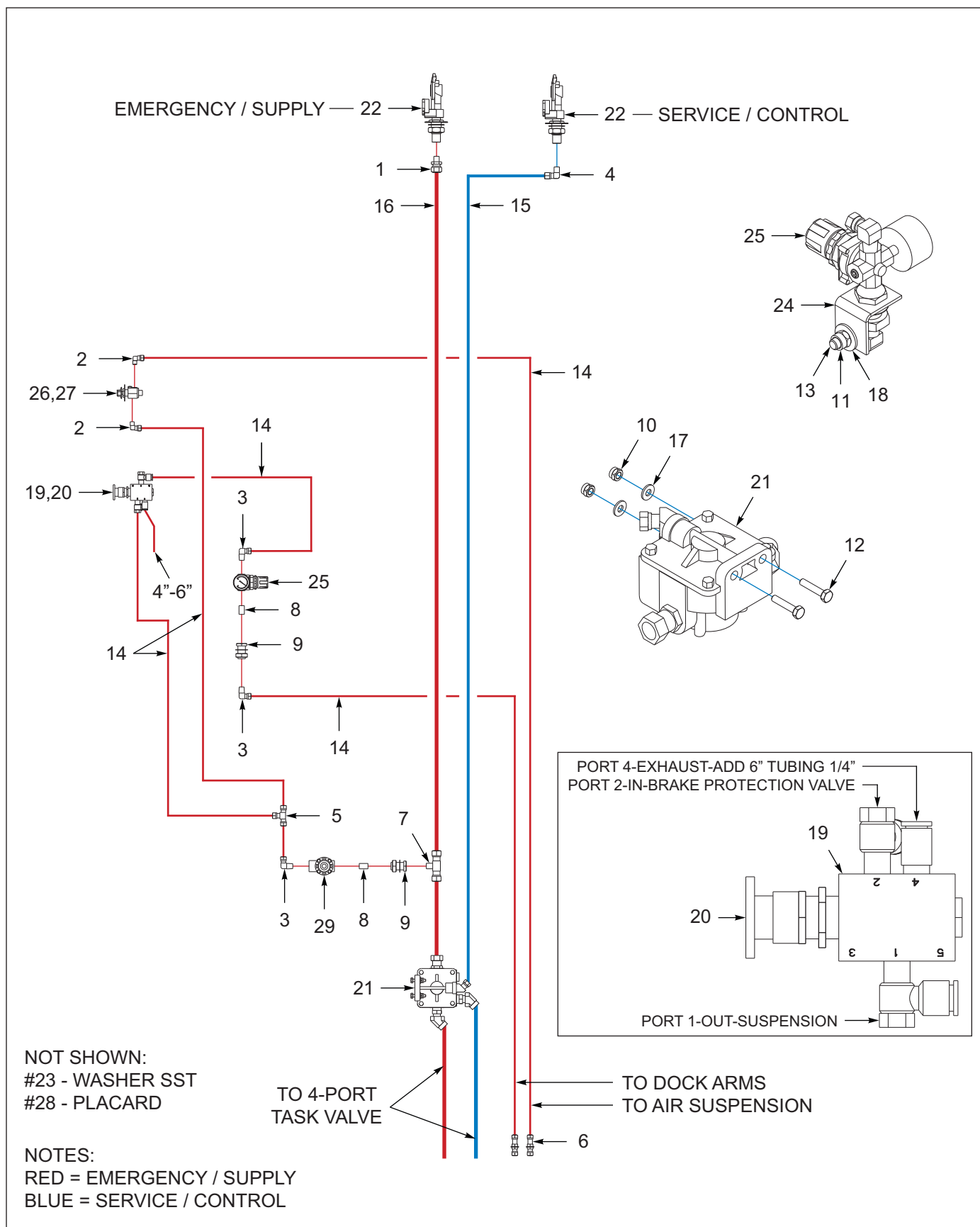


Figure 1-15: Air System - Booster Valve

Air System - Booster Valve

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT#	--
1	1-297-010007-14	FITTING AIR 1/2TUBE X 1/4NPT	1
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	2
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-297-010014-02	FITTING,AIR,BLKHD UNION 1/4	2
7	1-297-010015-09	FITTING,AIR,BR TEE 1/2T-1/4P	1
8	1-297-010020-02	FITTING,BRS PIPE,CL NIP 1/4	2
9	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	2
10	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
11	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
12	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	2
13	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	1
14	1-833-010001	TUBING NYLON 1/4 OD (BLACK, BY THE FOOT)	35
15	1-833-010002	TUBING NYLON 3/8 OD (BLACK, BY THE FOOT)	33
16	1-833-010003	TUBING NYLON 1/2 OD (BLACK, BY THE FOOT)	31
17	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	2
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1
19	107887	VALVE AIR PUSH BUTTON (INCLUDES ITEM 20)	1
20	213332	REPLACEMENT PUSH BUTTON FOR VALVE (PART OF ITEM 19)	1
21	141607	VALVE ASSY AIR BOOSTER (SEE PAGE 1-42)	1
22	143163	CONNECTORS FRONT SUB ASSY (SEE PAGE 1-41) (BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED)	1
22	238642	COUPLERS ISO FRONT SUB ASSY (SEE PAGE 1-41) (AFTER 03/01/2022 - REPLACES 143163)	1
23	213400	WASHER SST 1-1/4 OD X 21/32 ID (NOT SHOWN)	1
24	3-120-010445	BRACKET,PRESSURE REGULATOR660	1
25	3-626-010004	REGULATOR, AIR PRESSURE	1
26	900-54-088	VALVE, MANUAL OPERATED (INCLUDES ITEMS 27-28)	1
27	900 54 211	KNOB FOR 900-54-082 VALVE (900-54-211) (PART OF ITEM 26)	1
28	900 54 486	PLACARD, DN/UP MANUAL VALVE (PART OF ITEM 26) (NOT SHOWN)	1
29	905-54-107	BRAKE PROTECTION VALVE (INCLUDES FILTER 167692)	1

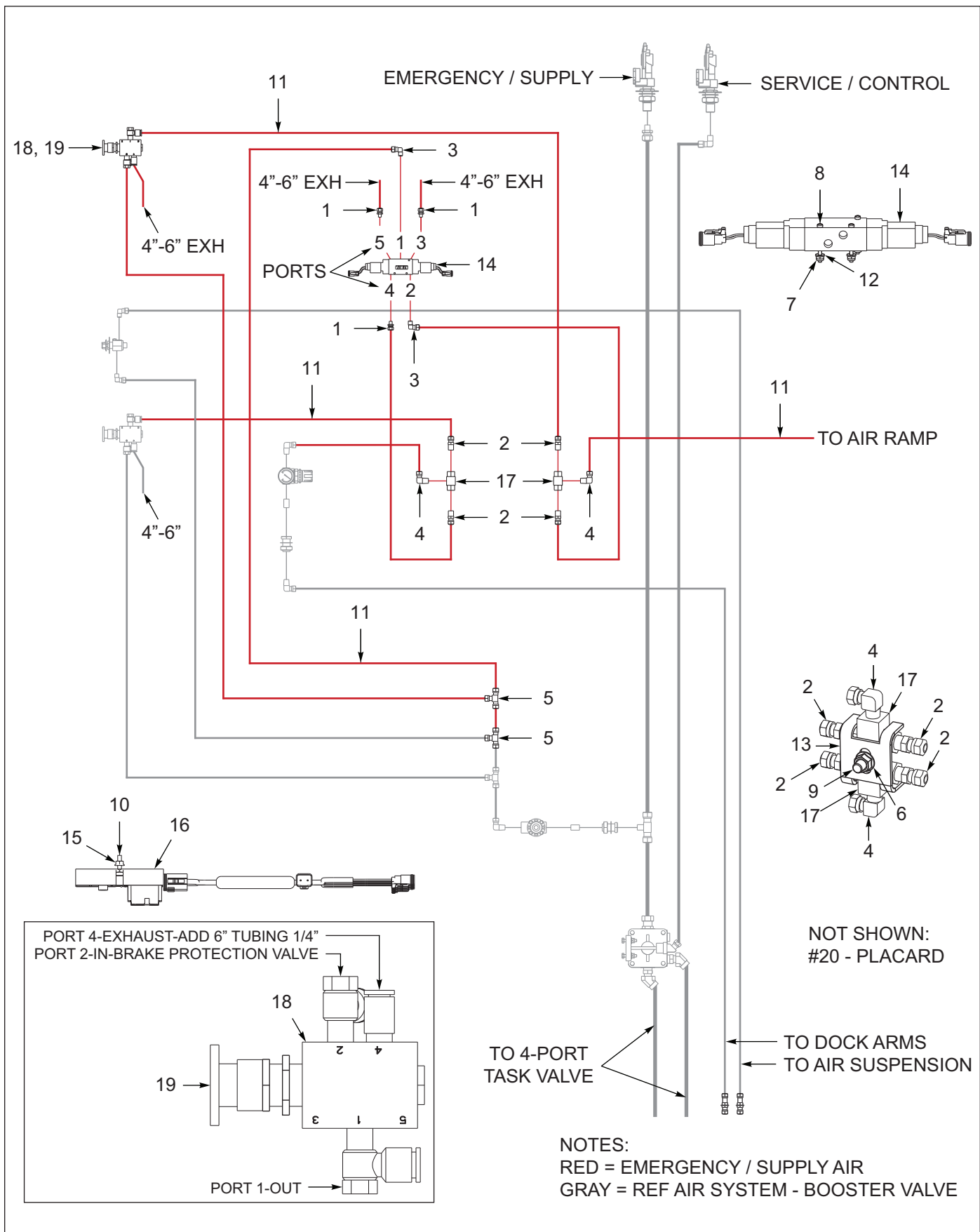


Figure 1-16: Air System - Remote, Dock Levelers & Ramp

Air System - Remote, Dock Levelers & Ramp

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT	- -
1	1-297-010007-04	FITTING, AIR, 1/4 TUBE X 1/8 NPT	3
2	1-297-010007-05	FITTING, AIR, 1/4 TUBE X 1/4 NPT	4
3	1-297-010008-05	FITTING, AIR, 90 1/4 TUBE X 1/8NPT	2
4	1-297-010008-07	FITTING, AIR, 90 1/4 TUBE X 1/4 NPT	2
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	2
6	1-510-010001	NUT, 3/8 -16 UN C FL ANGE LOCK	1
7	1-512-010003-02	NUT, HEX,SLFLKG W/NYL #6-32	3
8	1-654-010024014	SCREW,MACH,SLTD FILH,#6-32UNCX1-1/2	3
9	1-654-010051-09	SCREW, HEX, 3/8-16UNCX2 GR5	1
10	1-656-010003051	SCREW,RD HD MACH #10-24X3/4	2
11	1-833-010001	TUBING NYLON 1/4 OD (BLACK, BY THE FOOT)	9
12	1-861-010032-01	WASHER, FLAT, ZP/CD, #6	3
13	138814	HOSE CLAMP NOTCHED	1
14	194406	VALVE PNEUMATIC ASSY 4-WAY 3-POS	1
15	212074	NUT, FLG HD, SERR 10-24 UNC	2
16	213497	REMOTE BRAND 6 FUNC 900 (SEE PAGE 1-189)	1
17	3-843-010039-02	VALVE AIR SHUTTLE 1/4NPT	2
18	900-54-088	VALVE, MANUAL OPERATED (INCLUDES ITEMS 19-20)	1
19	900 54 211	KNOB FOR 900-54-082 VALVE (900-54-211) (PART OF ITEM 18)	1
20	900 54 486	PLACARD, DN/UP MANUAL VALVE (PART OF ITEM 18) (NOT SHOWN)	1

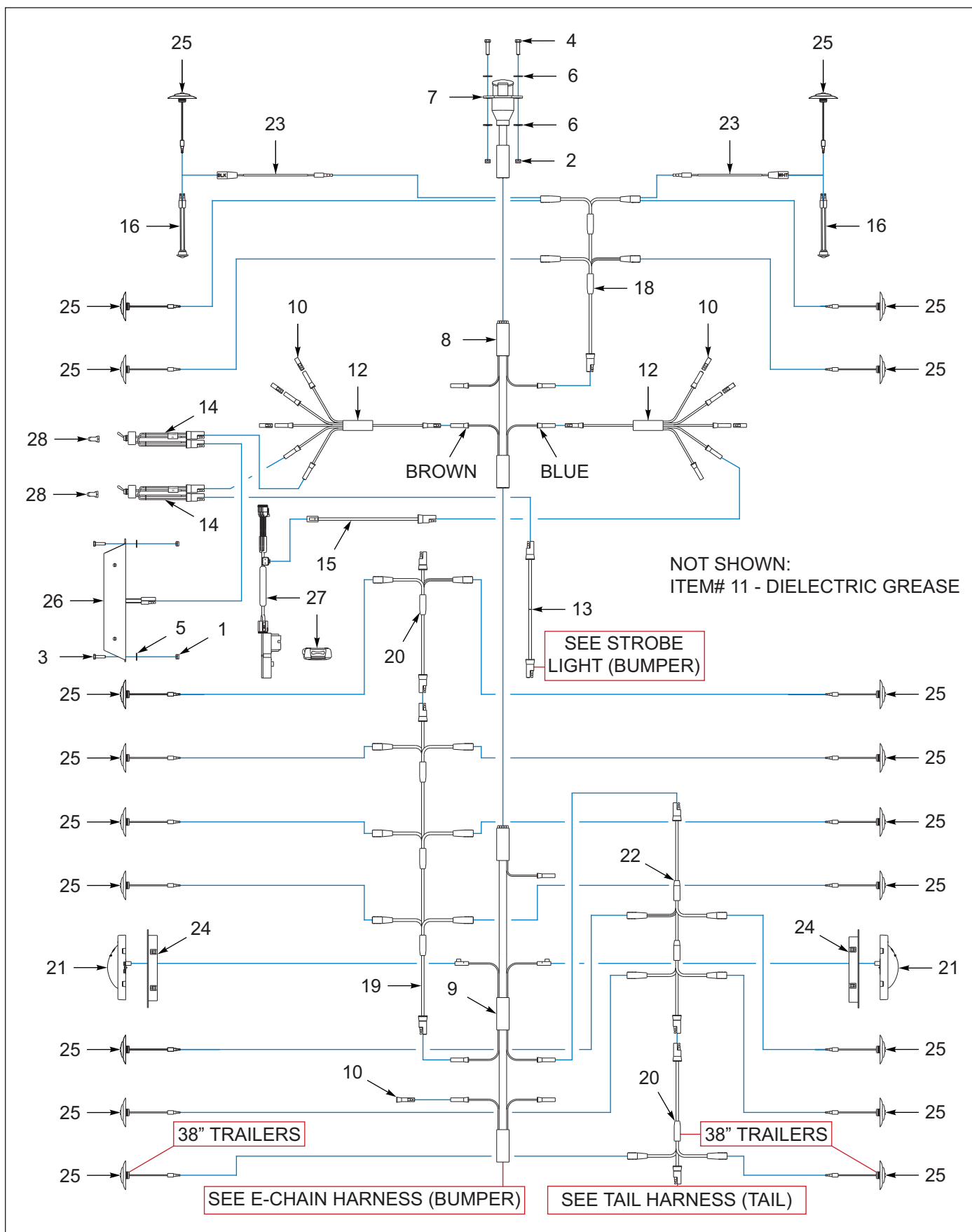


Figure 1-17: Electrical System - Trailer (Before 02/15/2022) (1 of 2)

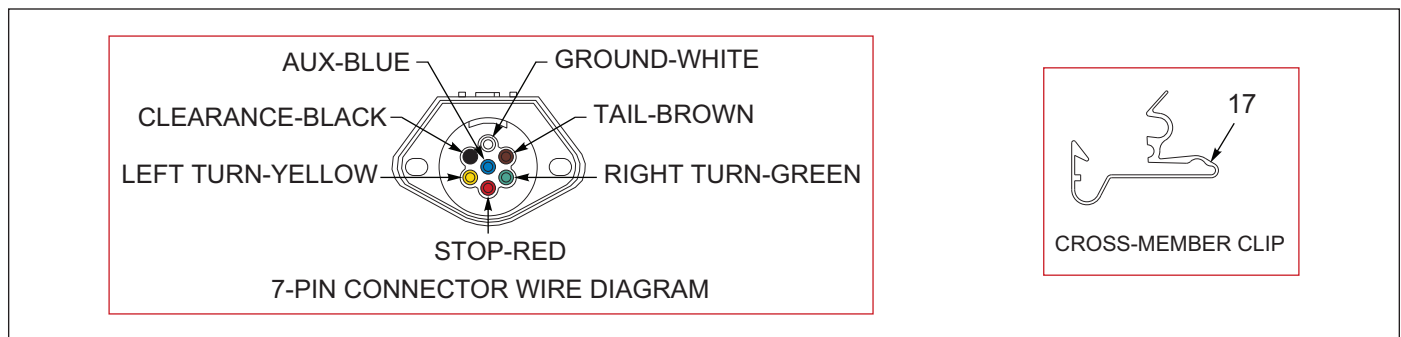


Figure 1-18: Electrical System - Trailer (Before 02/15/2022) (2 of 2)

Electrical System - Trailer (Before 02/15/2022)

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT	--
	215067	HYD ELEC AIR 900E-38 RMT	--
	215227	HYD ELEC AIR 900E-35HD RMT	--
1	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
3	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
4	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	2
5	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
6	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	4
7	143100	HARNESS 7WAY RECP GROTE	1
8	143101	HARNESS FRONT MAIN GROTE	1
9	143102	HARNESS BED MAIN GROTE (ADDED AFTER 12/19/2019 - 6" LEAD ON MALE END)	1
10	143121	DUMMY PLUG MALE/FEM BULLET	1
11	143123	GREASE DIELECTRIC 4 OZ TUBE (NOT SHOWN)	1
12	150093	HARNESS 5 AUX BRANCHES GROTE (NON REMOTE SYSTEMS, REQ 1 EACH)	2
13	150111	HARNESS 300 IN MALE.FEMALE	1
14	150117	SWITCH ASSY LIGHT GROTE	2
15	164052	HARNESS,60"BRANCH,WORK LIGHT (REMOTE SYSTEMS ONLY)	1
16	183413	LIGHT,WHT LED .75 CL/MK GROTE (TOOLBOX LIGHT)	2
17	187833	CLIP HARNESS, CROSS-MEMBER	100
18	187855	HARNESS MARKER UPR DECK	1
19	187856	HARNESS MARKER MID DECK	1
20	187857	HARNESS MARKER ADDITION (33', 35', 36', REQ 1 EACH) (38', REQ 2 EACH)	--
21	187868	LIGHT MID-TURN LED CLEAR LENS	2
22	194411	HARNESS MARKER FRAME REAR	1
23	213290	HARNESS 6" MKR EXTENSION	2
24	213296	FLANGE CHROME FLAT OBLONG	2
25	213297	LIGHT YEL CLEAR LENS MKR (33', 36' TRAILERS, REQ 18 EACH) (35' TRAILERS, REQ 16 EACH) (38' TRAILERS, REQ 20 EACH)	--
26	213304	LIGHT ASSY CONTROL PANEL	1
27	213497	REMOTE KIT BRAND 6 FUNC 900 (SEE PAGE 1-189) (REMOTE SYSTEMS ONLY)	1
28	81264	RUBBER BOOT FOR ELECT SWITCH	2



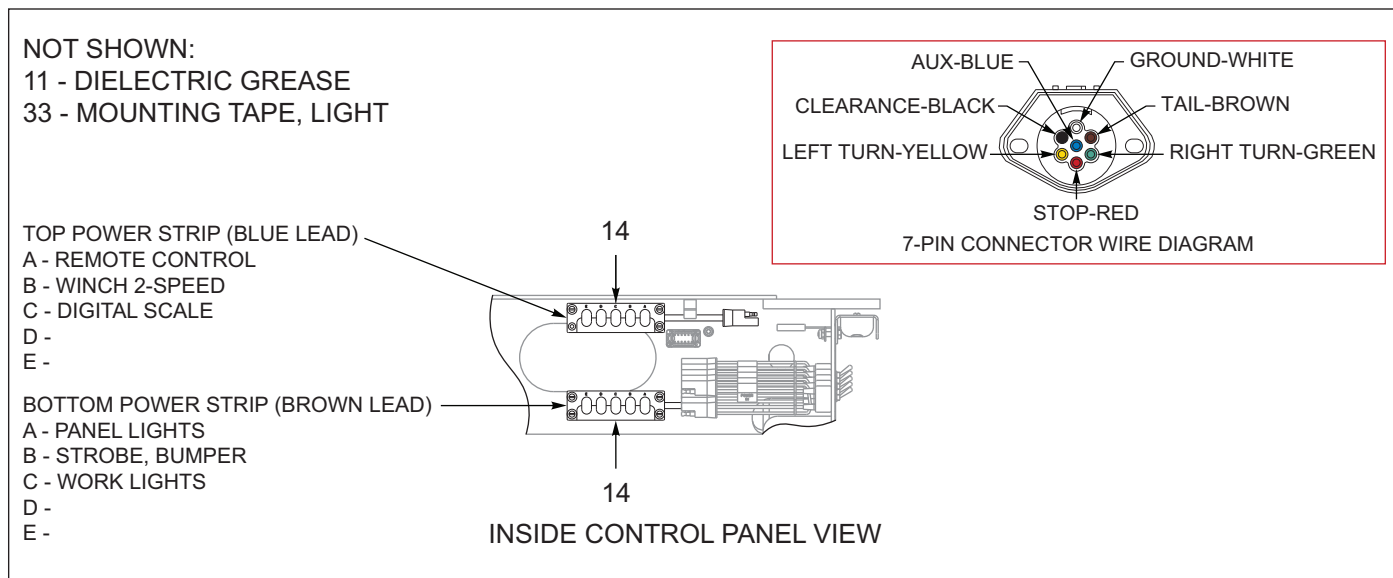


Figure 1-20: Electrical System - Trailer (After 02/15/2022) (2 of 2)

Electrical System - Trailer (After 02/15/2022)

ITEM	PART NUMBER	DESCRIPTION	QTY
	215063	HYD ELEC AIR 900E-33 RMT	--
	215067	HYD ELEC AIR 900E-38 RMT	--
	215227	HYD ELEC AIR 900E-35HD RMT	--
1	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
3	1-654-010024059	SCREW,MACH SL FILH10-24X2-1/4	7
4	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
5	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	2
6	1-861-010032-03	WASHER, FLAT #10 ZP/CD	7
7	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
8	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	4
9	143100	HARNESS 7WAY RECP GROTE	1
10	143101	HARNESS FRONT MAIN GROTE	1
11	143102	HARNESS BED MAIN GROTE	1
12	143121	DUMMY PLUG MALE/FEM BULLET	1
13	143123	GREASE DIELECTRIC 4 OZ TUBE (NOT SHOWN)	1
14	148874	POWER STRIP, OPTL TRLR FCTN	2
15	150111	HARNESS 300 IN MALE.FEMALE	1
16	150117	SWITCH ASSY LIGHT GROTE	2
17	164052	HARNESS,60"BRANCH,WORK LIGHT (REMOTE SYSTEMS ONLY)	1
18	183413	LIGHT,WHT LED .75 CL/MK GROTE (TOOLBOX LIGHT)	2
19	187833	CLIP HARNESS, CROSS-MEMBER	20
20	187855	HARNESS MARKER UPR DECK	1
21	187868	LIGHT MID-TURN LED CLEAR LENS	2
22	204194	HARNESS MARKER EXT. 60" (QTY VARIES WITH LIGHT QTY) (33', 35', 36' TRAILERS, REQ 10 EACH) (38' TRAILERS, REQ 12 EACH)	--
23	212074	NUT 10-24 FLANGE HD SERRATED	7
24	213290	HARNESS 6" MKR EXTENSION	4
25	213296	FLANGE CHROME FLAT OBLONG	2

Electrical System - Trailer (After 02/15/2022)

26	213297	LIGHT YEL CLEAR LENS MKR (33', 35, 36' TRAILERS, REQ 18 EACH) (38' TRAILERS, REQ 20 EACH)	--
27	213304	LIGHT ASSY CONTROL PANEL	1
28	213497	REMOTE KIT BRAND 6 FUNC 900 (SEE PAGE 1-189) (REMOTE SYSTEMS ONLY)	1
29	225261	HARNESS,72" MKR EXTENSION	2
30	235745	HARNESS 144" M/F JUMPER	1
31	235747	ADAPTER.JUMPER,MID-TURN/MKR	2
32	81264	RUBBER BOOT FOR ELECT SWITCH	2
33	227811	DOUBLE SIDED MOUNTING TAPE (1 PER ITEM 26) (33', 35, 36' TRAILERS, REQ 18 EACH) (38' TRAILERS, REQ 20 EACH)	--

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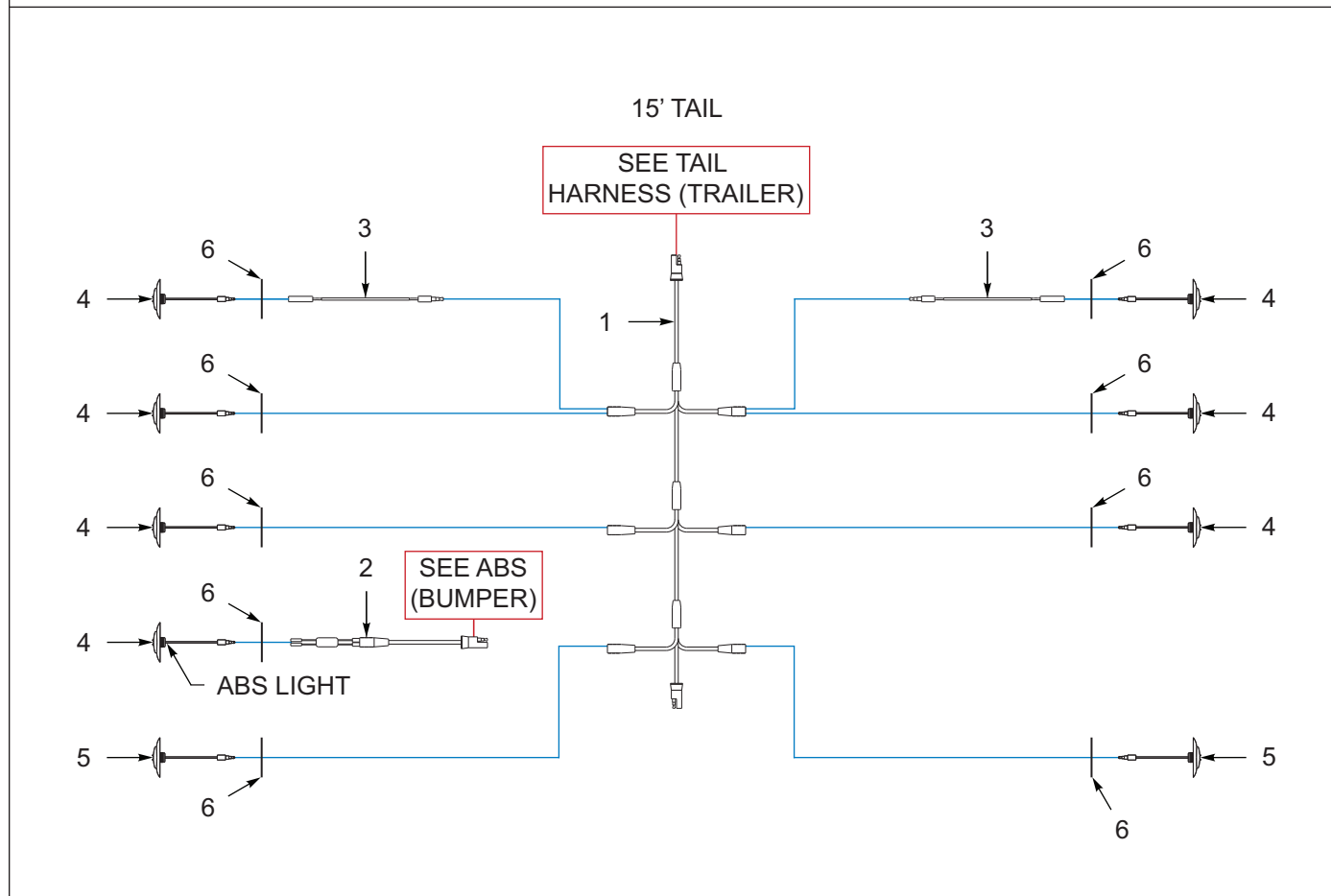
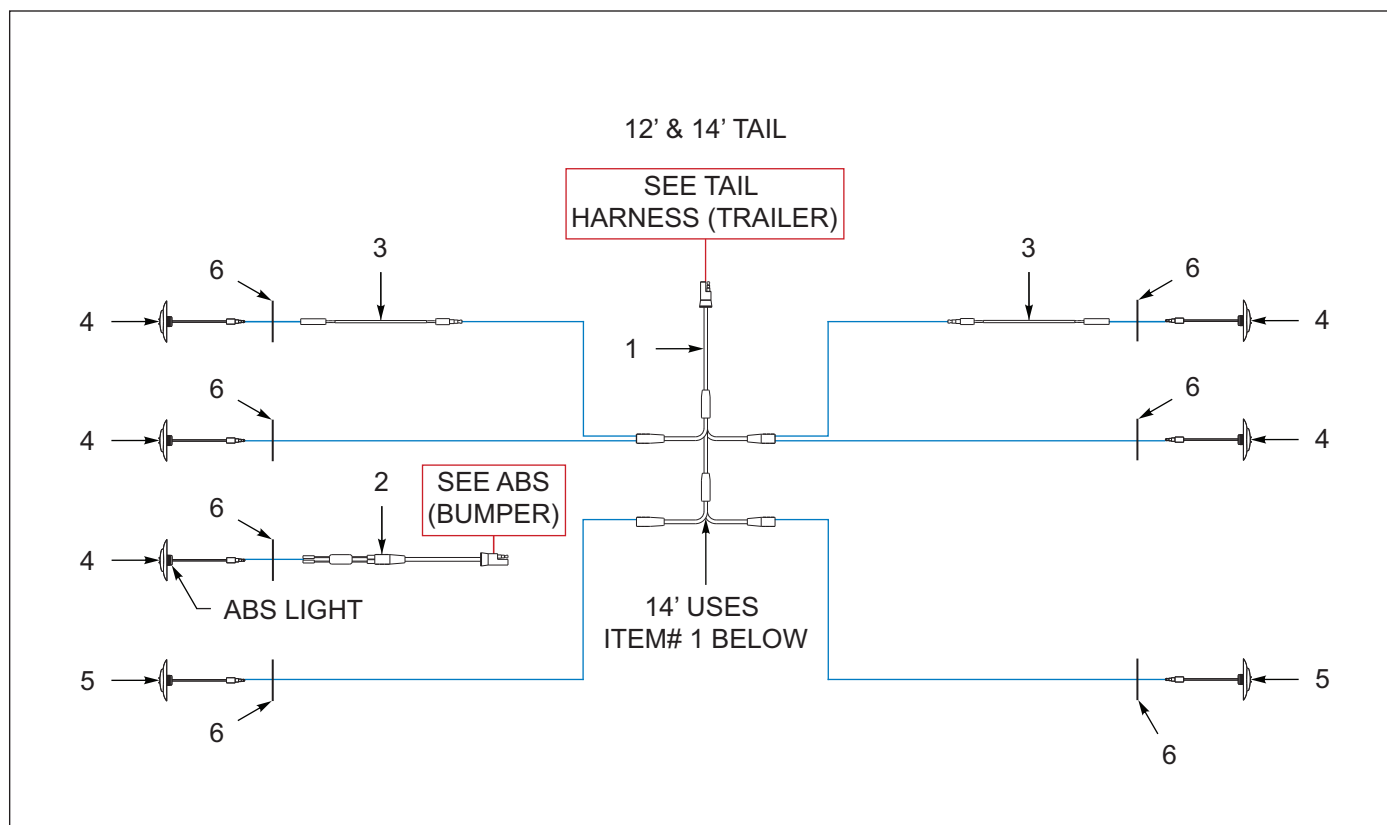


Figure 1-21: Electrical System - Tail

Electrical System - Tail

ITEM	PART NUMBER	DESCRIPTION	QTY
	195848	TAIL ASSY 900-12FT 235 TIRE (12' TAIL)	--
	195850	TAIL ASSY 900-14FT 235 TIRE (14' TAIL)	--
	195852	TAIL ASSY 900-15FT 235 TIRE (15' TAIL)	--
1	187855	HARNESS MARKER UPR DECK (12' TAIL)	1
1	187856	HARNESS MARKER MID DECK (14' & 15' TAIL)	1
2	187858	HARNESS ABS LAMP MICRONOVA	1
3	194410	HARNESS JUMPER LAMP MIRCO-NOVA	2
4	187863	LIGHT YEL LED.75CL/MK CLEAR CB (BEFORE 07/01/2018) (12', 14' TAIL, REQ 5 EACH) (15' TAIL, REQ 7 EACH)	--
4	213297	LIGHT YEL CLEAR LENS MKR (AFTER 07/01/2018) (12', 14' TAIL, REQ 5 EACH) (15' TAIL, REQ 7 EACH)	--
5	187864	LIGHT RED LED.75CL/MK CLEAR CB (BEFORE 07/01/2018)	2
5	213298	LIGHT RED CLEAR LENS MKR (AFTER 07/01/2018)	2
6	227811	DOUBLE SIDED MOUNTING TAPE (1 PER LIGHT) (12', 14' TAIL, REQ 7 EACH) (15' TAIL, REQ 9 EACH)	--

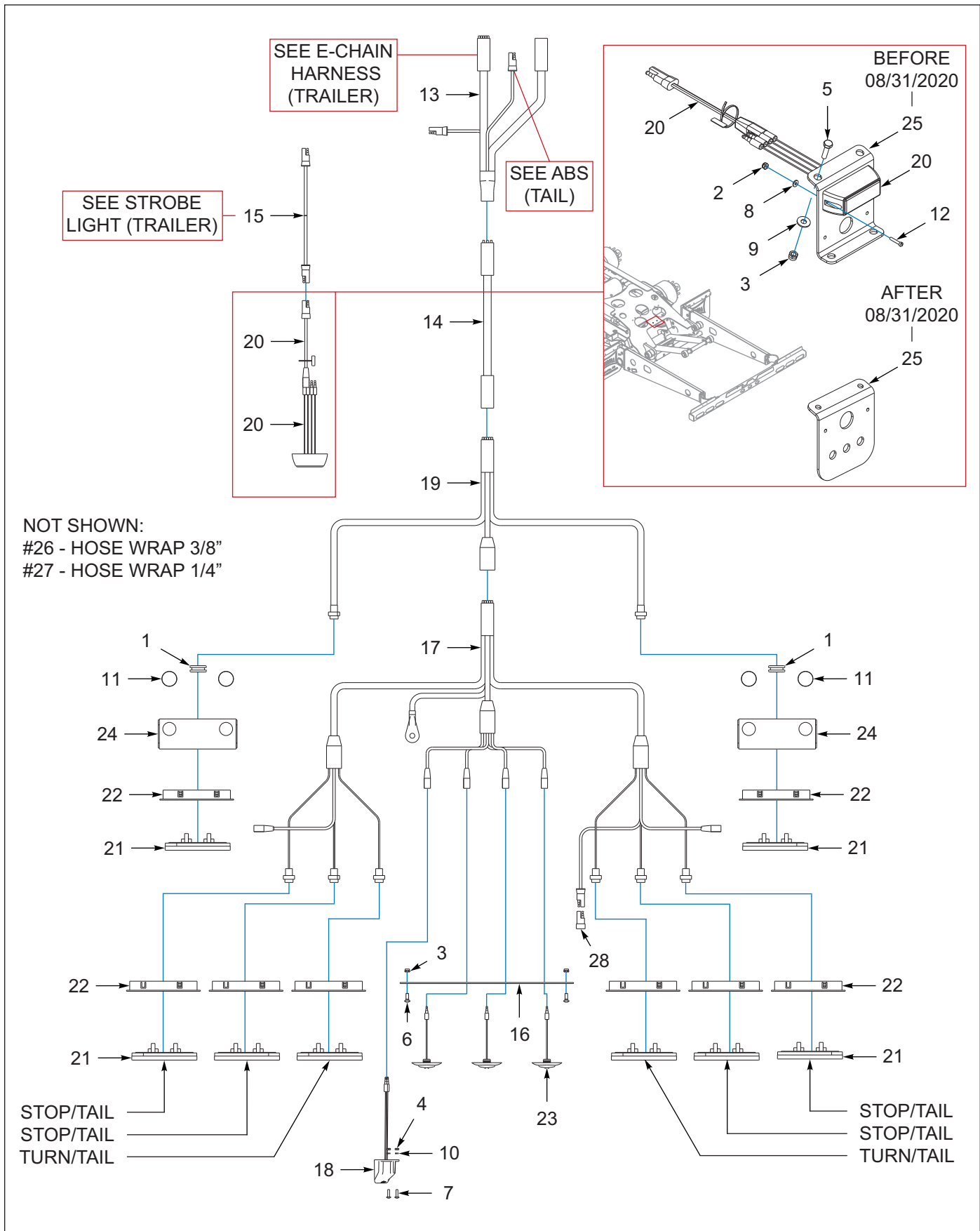


Figure 1-22: Electrical System - Bumper

Electrical System - Bumper

ITEM	PART NUMBER	DESCRIPTION	QTY
	214499	SUSP ASSY 930E-12 2512-77	--
	215051	SUSP ASSY 930E-14 2512-77	--
	215053	SUSP ASSY 930E-15 2512-77	--
1	1-343-010006	GROMMET (ADDED 04/24/2018)	2
2	1-512-010003-02	NUT,HEX,SLFLKG W/NYL #6-32 (ADDED 04/24/2018)	2
3	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	4
4	1-512-010007-03	NUT, HEX 10-24 GR2 ZP	2
5	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
6	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	2
7	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	2
8	1-861-010032-01	WASHER, FLAT #6 ZP/CD (ADDED 04/24/2018)	2
9	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
10	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	2
11	116324	PLUG,PLAST PANEL1-5/16&1-7/16	8
12	122187	SCREW,MACH SLOT FILL 6-32X3/4 (ADDED 04/24/2018)	2
13	143103	HARNESS ECHAIN GROTE	1
14	143166	HARNESS EXT 48IN GROTE (USED ON 12' TAIL)	1
14	143167	HARNESS EXT 84 IN GROTE (USED ON 14' & 15' TAIL)	1
15	150111	HARNESS 300 IN MALE.FEMALE	1
16	179906	PLATE MTG MICRO ID LIGHTS	1
17	187859	HARNESS BUMPER MICRONOVA GROTE	1
18	187860	LIGHT ASSY LICENSE LED GROTE	1
19	213287	HARNESS JUMPER 12" TURN/TAIL	1
20	213294	STROBE ASSY LIGHT W/12"HARNESS (ADDED 04/24/2018) (INCLUDES 213288-HARNESS, 213293-LIGHT STROBE YELLOW)	1
21	213295	LIGHT CLEAR LENS S/T/T	8
22	213296	FLANGE CHROME FLAT OBLONG	8
23	187864	LIGHT RED LED.75CL/MK CLEAR CB (BEFORE 12/26/2018)	5
23	213298	LIGHT RED CLEAR LENS MKR (AFTER 12/26/2018)	5
24	223257	MOUNT WLDMT MUDFLAP S/T/T GALV	2
25	213305	BRACKET U/C CENTER STROBE (ADDED 04/24/2018 - BEFORE 08/31/2020)	1
25	225884	BRACKET U/C STRB/GRSE BULKHEAD (AFTER 08/31/2020)	1
26	43028	HOSE WRAP AEROQUIP 3/8 (NOT SHOWN) (BY THE FOOT) (AFTER 05/22/2020)	3
27	43029	HOSE WRAP AEROQUIP 1/4 (NOT SHOWN) (BY THE FOOT) (BEFORE 05/22/2020, REQ 3)	1
28	143121	DUMMY PLUG MALE/FEM BULLET	1

Cylinders & Connectors

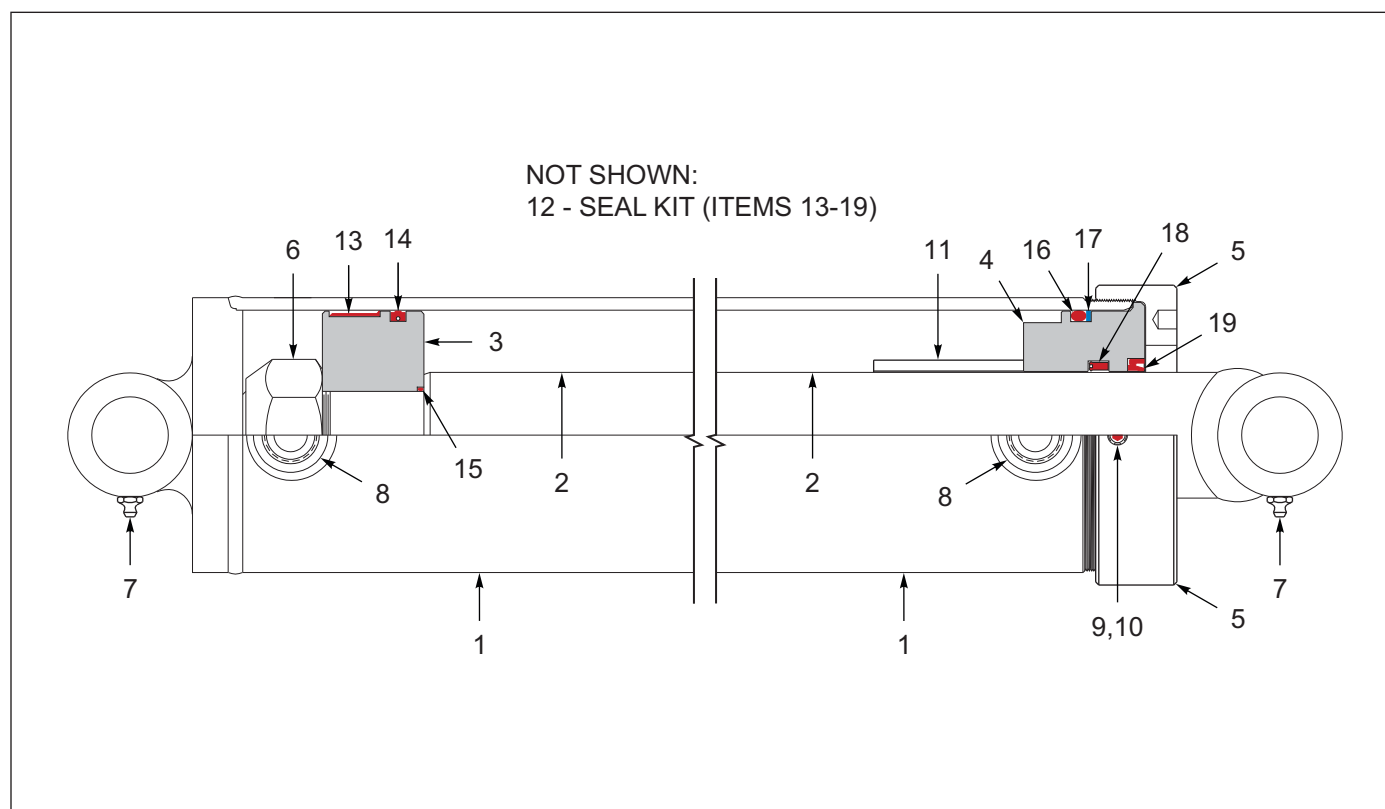


Figure 1-23: Cylinder - 5 X 60

Cylinder - 5 x 60

ITEM	PART NUMBER	DESCRIPTION	QTY.
	194401	CYLINDER 5 X 60	--
1	062100946	BUTT & TUBE ASSEMBLY	1
2	114081	PISTON ROD ASSY FOR 109126	1
3	072100181	PISTON ROD ASSY	1
4	179002	GLAND	1
5	262100018	GLAND CAP	1
6	220000217	LOCK NUT	1
7	270010002	GREASE ZERK	2
8	200500007	PORT PLUG	2
9	220000701	SET SCREW	1
10	220000853	NYLON LOCK	1
11	211400029	SPACER	1
12	201641	SEAL KIT CYLINDER 5" X 60" (INCLUDES ITEMS 13-19)	--
13	240011302	BEARING RING (PART OF ITEM 12)	1
14	240060350	CROWN SEAL (PART OF ITEM 12)	1
15	240000031	O-RING (PART OF ITEM 12)	1
16	240000425	O-RING (PART OF ITEM 12)	1
17	240061425	BU-WASHER (PART OF ITEM 12)	1
18	240020013	U-CUP (PART OF ITEM 12)	1
19	250014250	WIPER (PART OF ITEM 12)	1

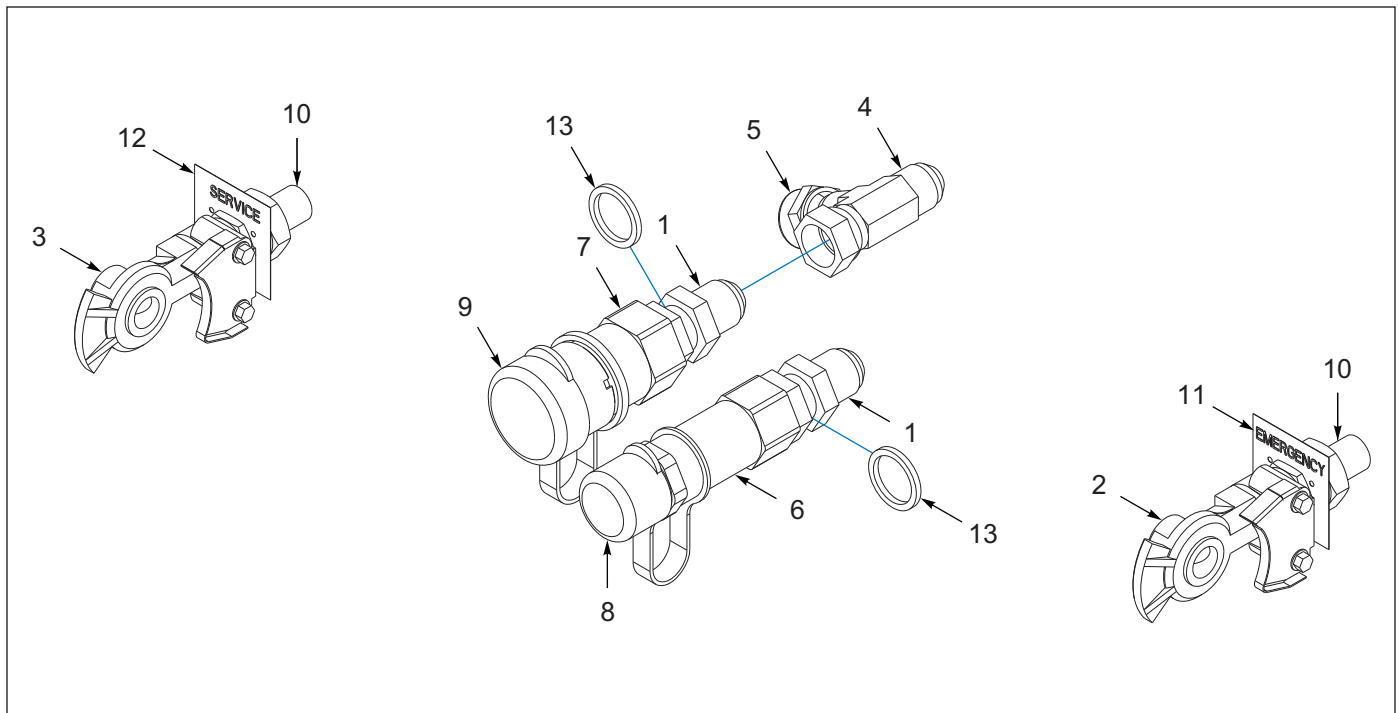


Figure 1-24: Connectors - Front Sub Assembly

Connectors - Front Sub Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	143163	CONNECTORS FRONT SUB ASSY (INCLUDES ITEMS 1-12) (BEFORE 03/01/2022 - AFTER 03/15/2020 DISCONTINUED)	--
	238642	COUPLERS ISO FRONT SUB ASSY (INCLUDES ITEMS 1-12) (AFTER 03/01/2022 - REPLACES 143163)	--
1	105483	ADAPTER BLKHD 12JIC-12 ORING	2
2	108801	GLAD HAND-RED-AIR (INCLUDES SEAL 209133)	1
3	108802	GLAD HAND-BLUE-AIR (INCLUDES SEAL 209133)	1
4	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
5	210292-12S	JIC CAP NUT #12	1
6	105479	COUPLER FLAT FACE MALE NOSE (PARTS - SEE PAGE 1-212) (BEFORE 03/01/2022 -SILVER BODY)	1
6	239677	COUPLER FL FACE ISO -12 MALE (PARTS - SEE PAGE 1-212) (AFTER 03/01/2022- BLACK BODY)	1
7	105480	COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 1-212) (BEFORE 03/01/2022)	1
7	239678	COUPLER FL FACE ISO -12 FEMALE (AFTER 03/01/2022)	1
8	105481	COUPLER DUST CAP MALE (BEFORE 03/01/2022)	1
8	239679	DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)	1
9	105482	COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)	1
9	239680	DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)	1
10	55B61	FRAME UNION	2
11	55B61-6	TAG EMER LINE VELVAC 035025	1
12	55B61-7	TAG SERVICE LINE VELVC 035026	1
13	169365	SPACER HYDR COUPLERS (USED BEFORE 02/01/202, REQ 2 EACH - AFTER HEX RETAINER WELDED TO FRAME)	--

Valves

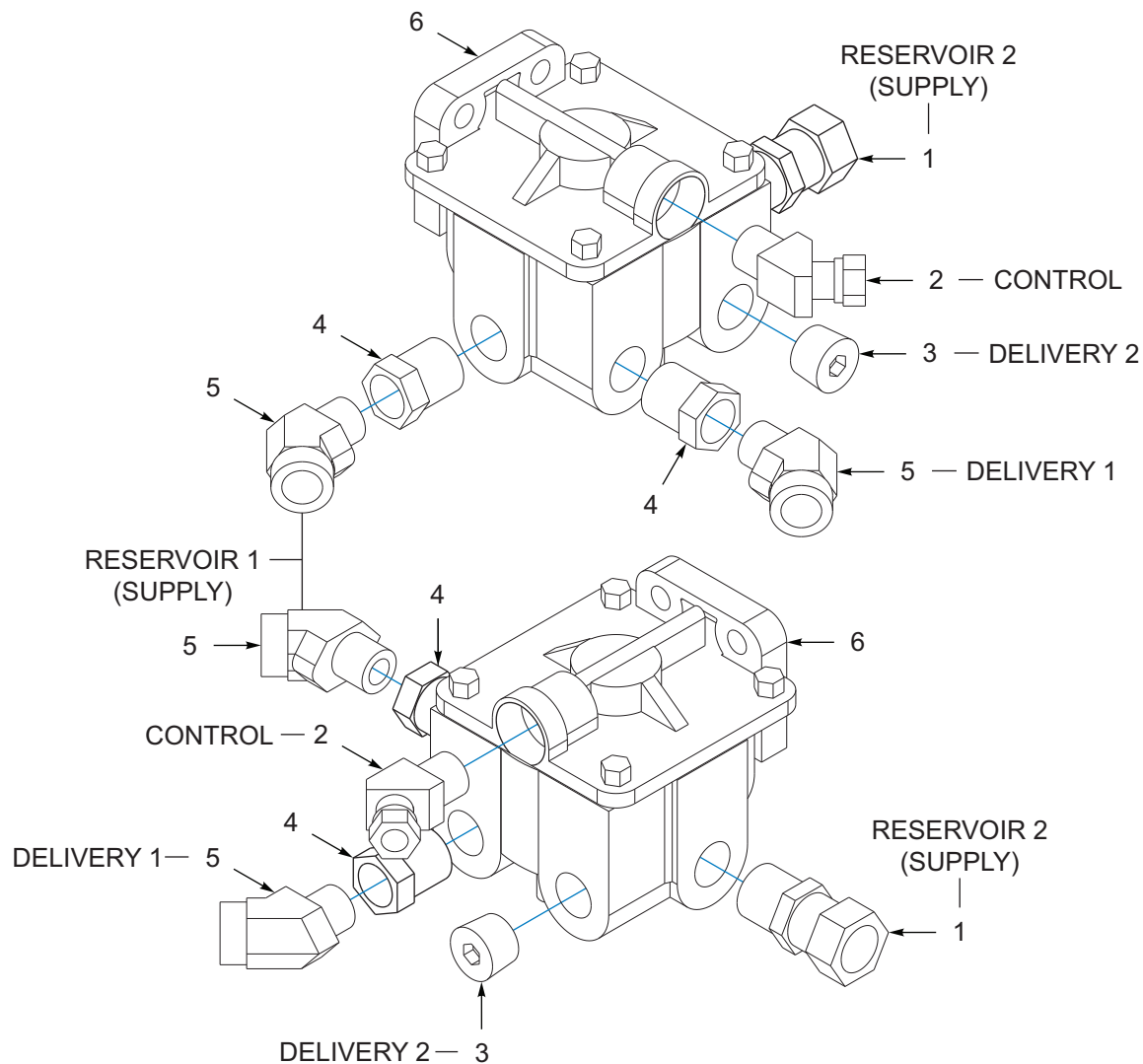


Figure 1-25: Valve Assembly - Air Booster

Valve Assembly - Air Booster

ITEM	PART NUMBER	DESCRIPTION	QTY.
	141607	VALVE ASSY AIR BOOSTER	--
1	1-297-010007-16	FITTING AIR 1/2TUBEX1/2 NPT	1
2	1-297-010013-12	FITTING AIR 45 M/ELB3/8TX3/8P	1
3	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
4	2081-8-6S	REDUCER 1/2NPT X 3/8NPT	2
5	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	2
6	3-843-010038	VALVE,AIR RELAY FAST AIR BAL	1

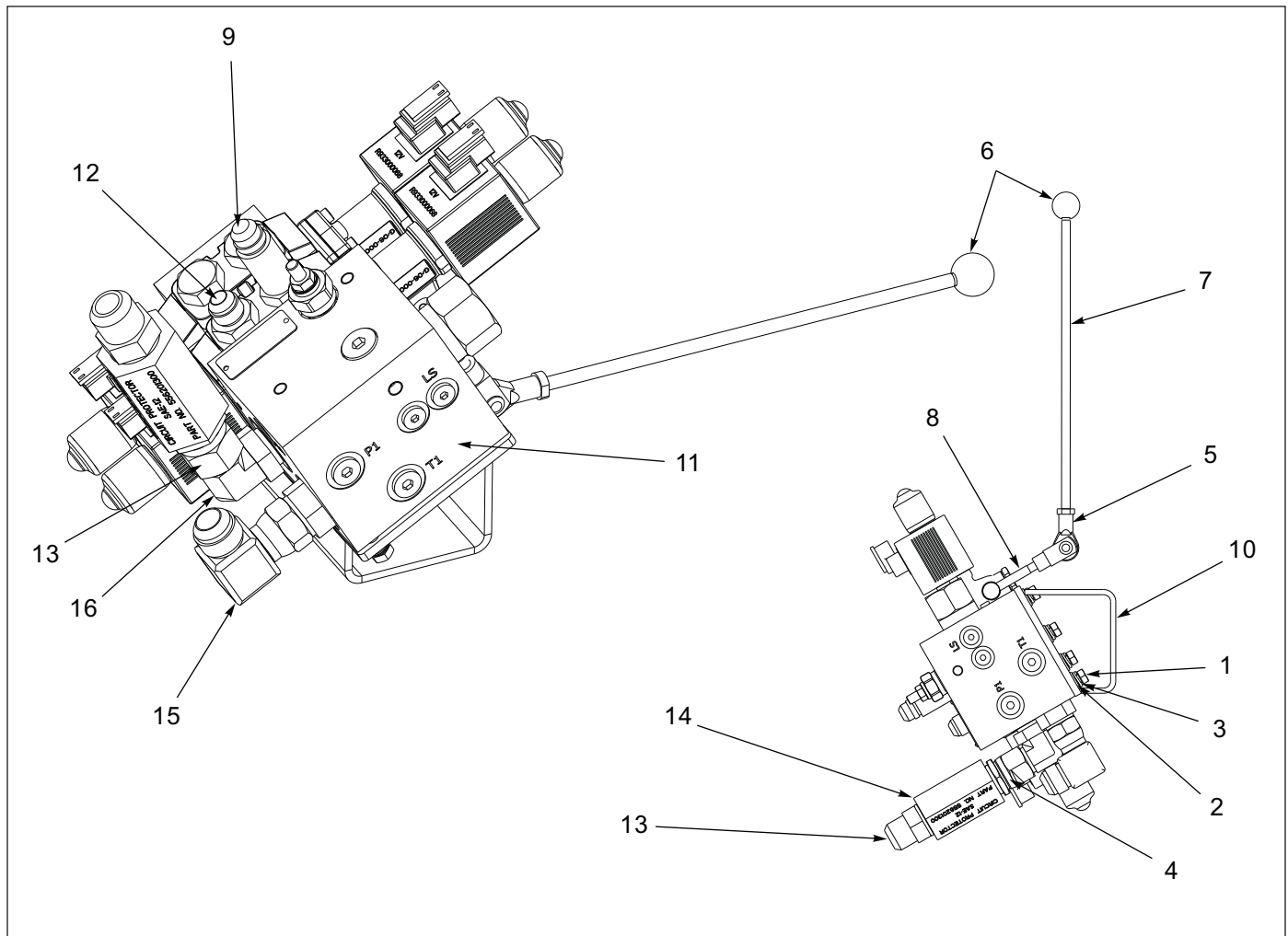


Figure 1-26: Valve Assembly - 2 Spool Control

Valve Assembly - 2 Spool Control

ITEM	PART NUMBER	DESCRIPTION	QTY.
	194395	VALVE ASSY 2-SPOOL CONTROL	
1	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	4
2	1-861-010032-08	WASHER,FLAT 5/16 ZP	4
3	1-861-010034-10	WASHER,LKG 5/16	4
4	120660	ADAPTER, #12-O/R FEM-#12FL ML	1
5	186875	CLEVIS JOINT, ROD ENDS M8X1.25	2
6	191849	HANDLE ASSEMBLY, RED KNOB (WINCH FUNCTION)	1
7	191850	HANDLE ASSEMBLY, BLACK KNOB	1
8	186902	STUD M8X1.25X65MM, DBL THD	2
9	189285	ADAPTER STR LING #10ORB #8JMIC	2
10	194396	MOUNT WLDMT 2-SPOOL VALVE	1
11	194402	VALVE 2-SPOOL	1
12	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
13	202702-12-12S	ADAPTER, STR, #12 O-RING - #12 TUBE	2
14	204124	FILTER HYD IN-LINE MAGNETIC SAE#12	1
15	2062-12-12S	ADAPTER, 90, #12 O-RING #12 TUBE	1
16	2071-12-12S	ADAPTER, 90, #12FLR SWVL #12JIC	1

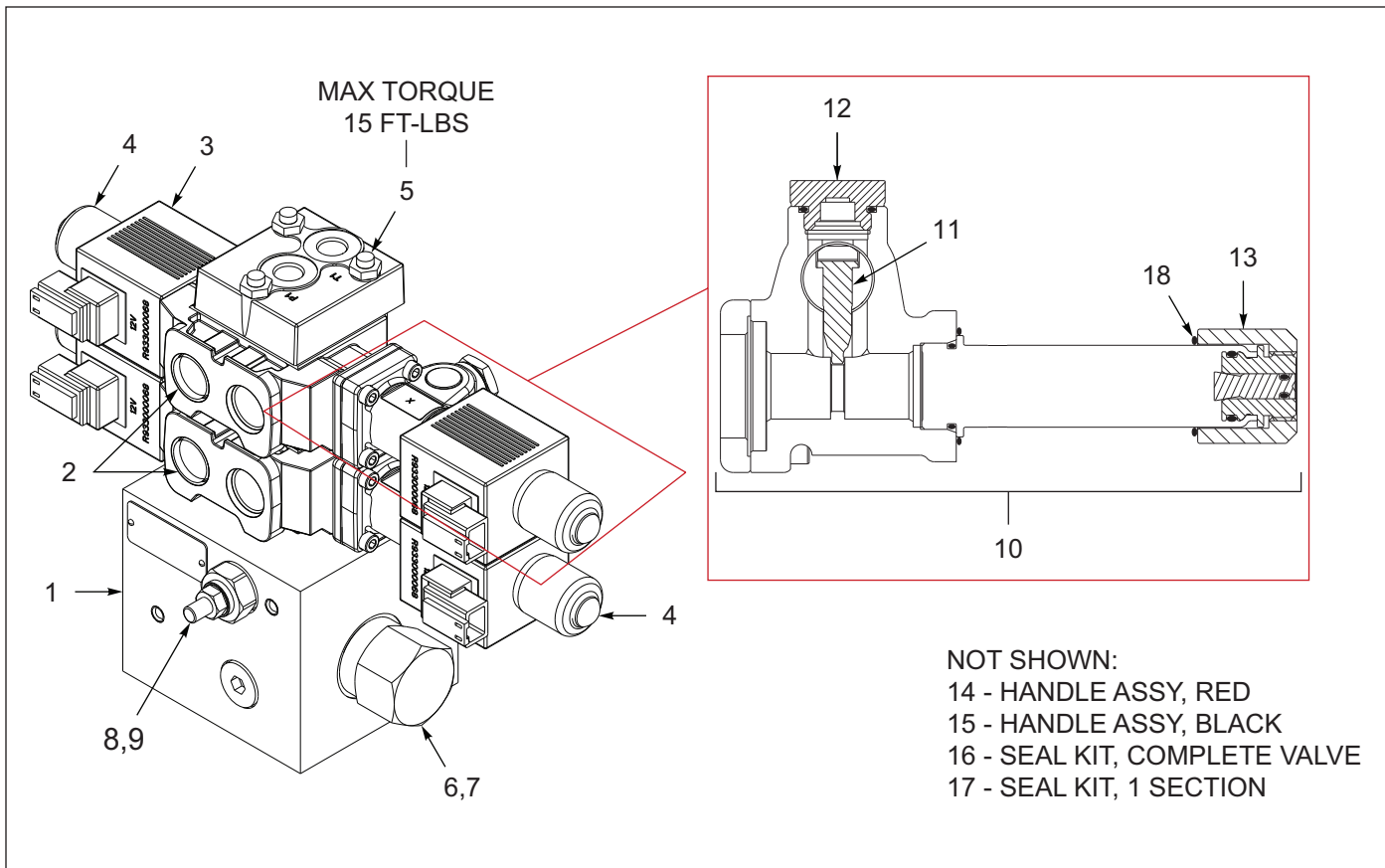


Figure 1-27: Valve Assembly - 2 Spool Solenoid

Valve Assembly - 2 Spool Solenoid

ITEM	PART NUMBER	DESCRIPTION	QTY.
	194402	VALVE 2-SPOOL	--
1	191847	INLET, REXROTH VALVE	1
2	191848	SECTION, SOLENOID, MOTOR, 20GPM	2
3	193400	SOLENOID, COIL, DUETSCH	4
4	193401	BOOT RUBBER, SOLE, MANUAL OVRDE	4
5	194403	BOLT KIT, 3 SPOOL VALVE	1
6	193444	CARTRIDGE, BI-PASS COMPENSATOR	1
7	193445	SEAL KIT, BI-PASS COMPENSATOR	1
8	193446	CARTRIDGE, LOAD SENSE RELIEF	1
9	193447	SEAL KIT, LOAD SENSE RELIEF	1
10	208390	KIT COMPLETE LEVER BOX K-22144 (INCLUDES ITEMS 11-13 & SCREWS)	2
11	204189	SET SCREW HANDLE ACTUATOR BALL (PART OF ITEM 10)	2
12	208391	PLUG LEVER BOX (PART OF ITEM 10)	2
13	208392	COIL NUT LEVER BOX (PART OF ITEM 10)	2
14	191849	HANDLE, RED, 12", M8-125 THREAD (INCLUDES ROD & KNOB)	1
15	191850	HANDLE, BLACK, 12", M8-125 THREAD (INCLUDES ROD & KNOB)	1
16	216601	SEAL KIT COMPLETE REXROTH VALV (INCLUDES ITEMS 17-18) (FITS 1, 2, 3, 4 & 5 VALVE ASSEMBLIES)	1
17	193442	SEAL KIT, 1 SECTION, 3 SEALS (PART OF ITEM 16)	5
18	193443	SEAL KIT, SOLENOID, 2 SEALS (PART OF ITEM 16)	3

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Undercarriage

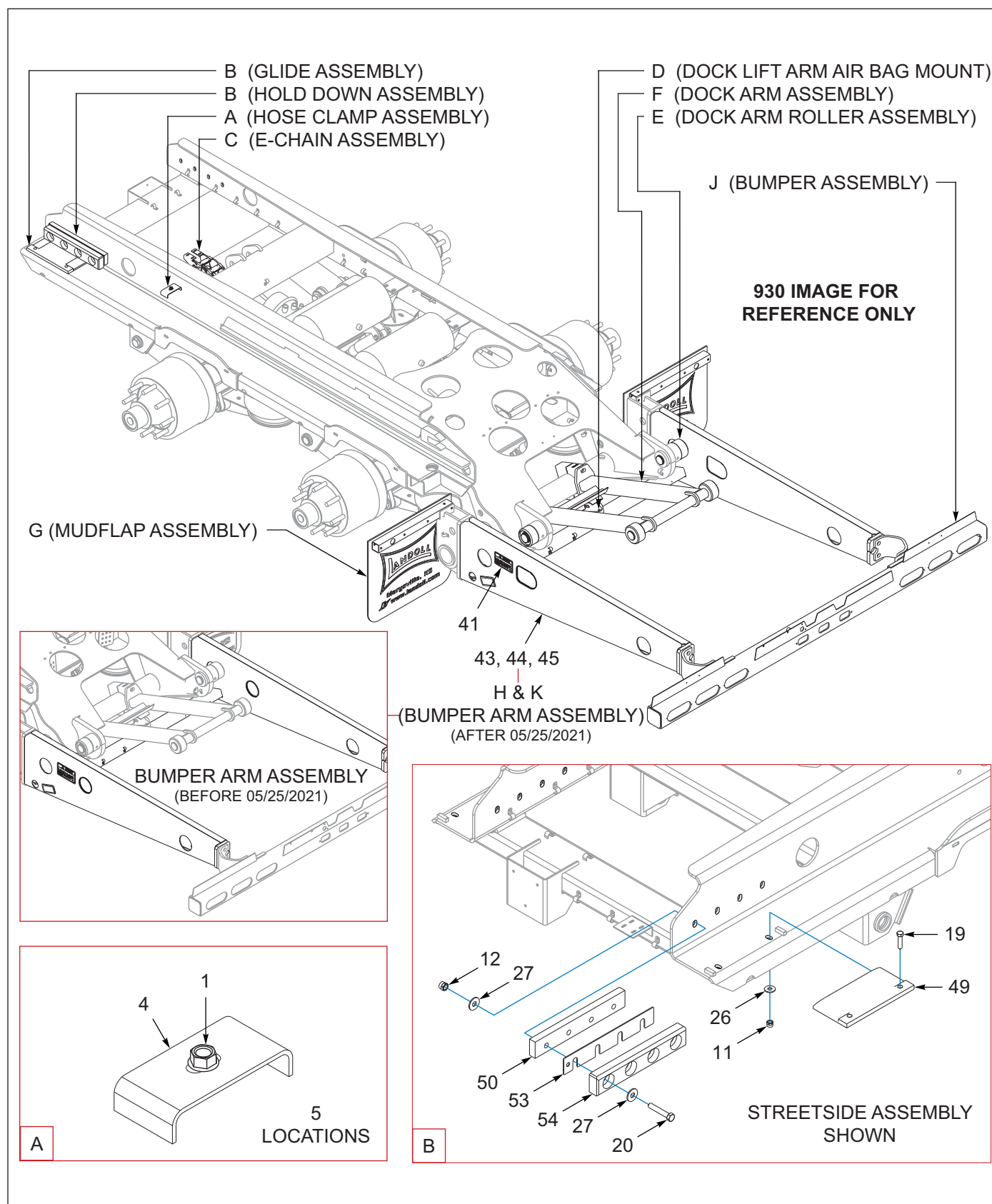


Figure 1-28: Undercarriage Components (1 of 3)

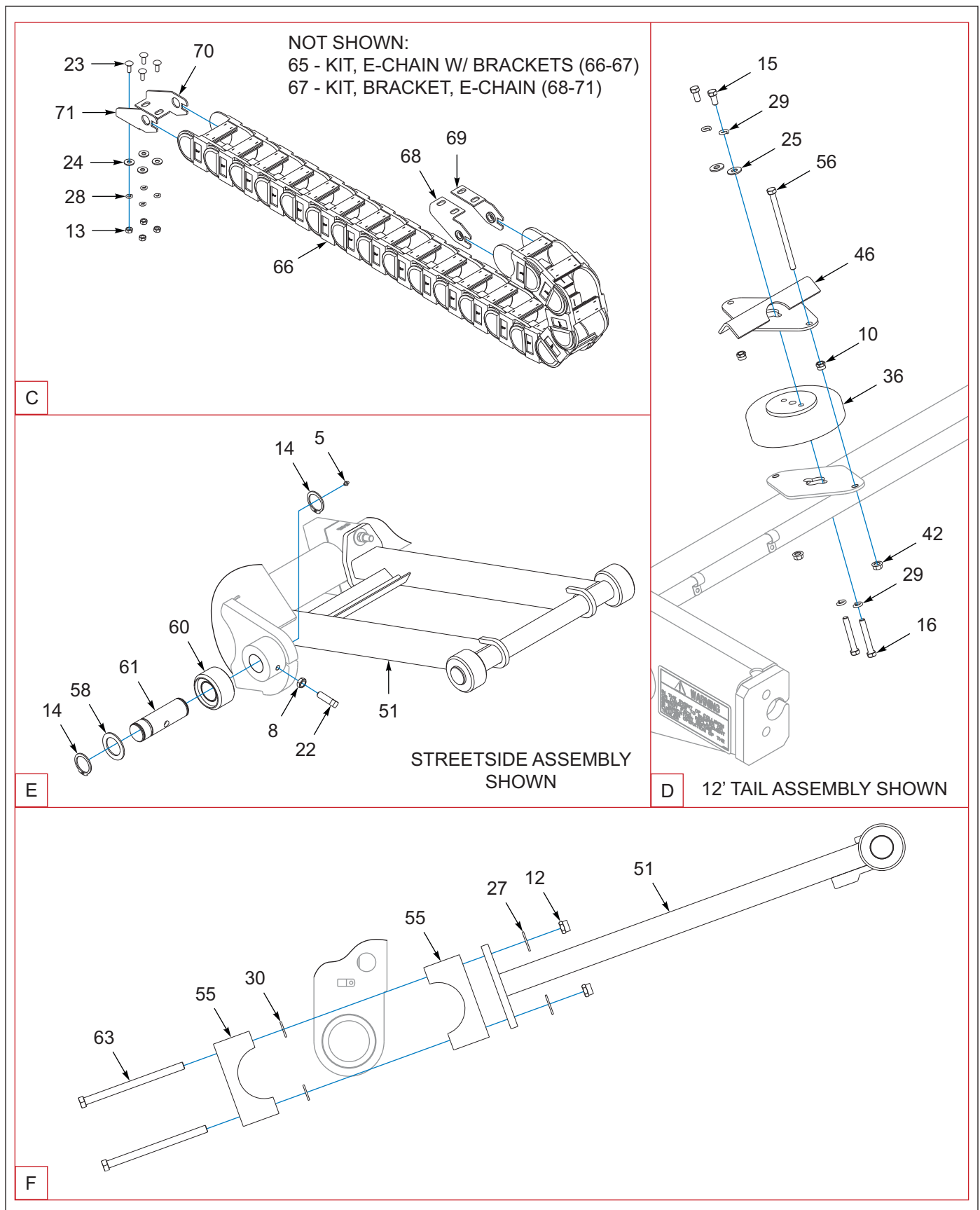


Figure 1-29: Undercarriage Components (2 of 3)

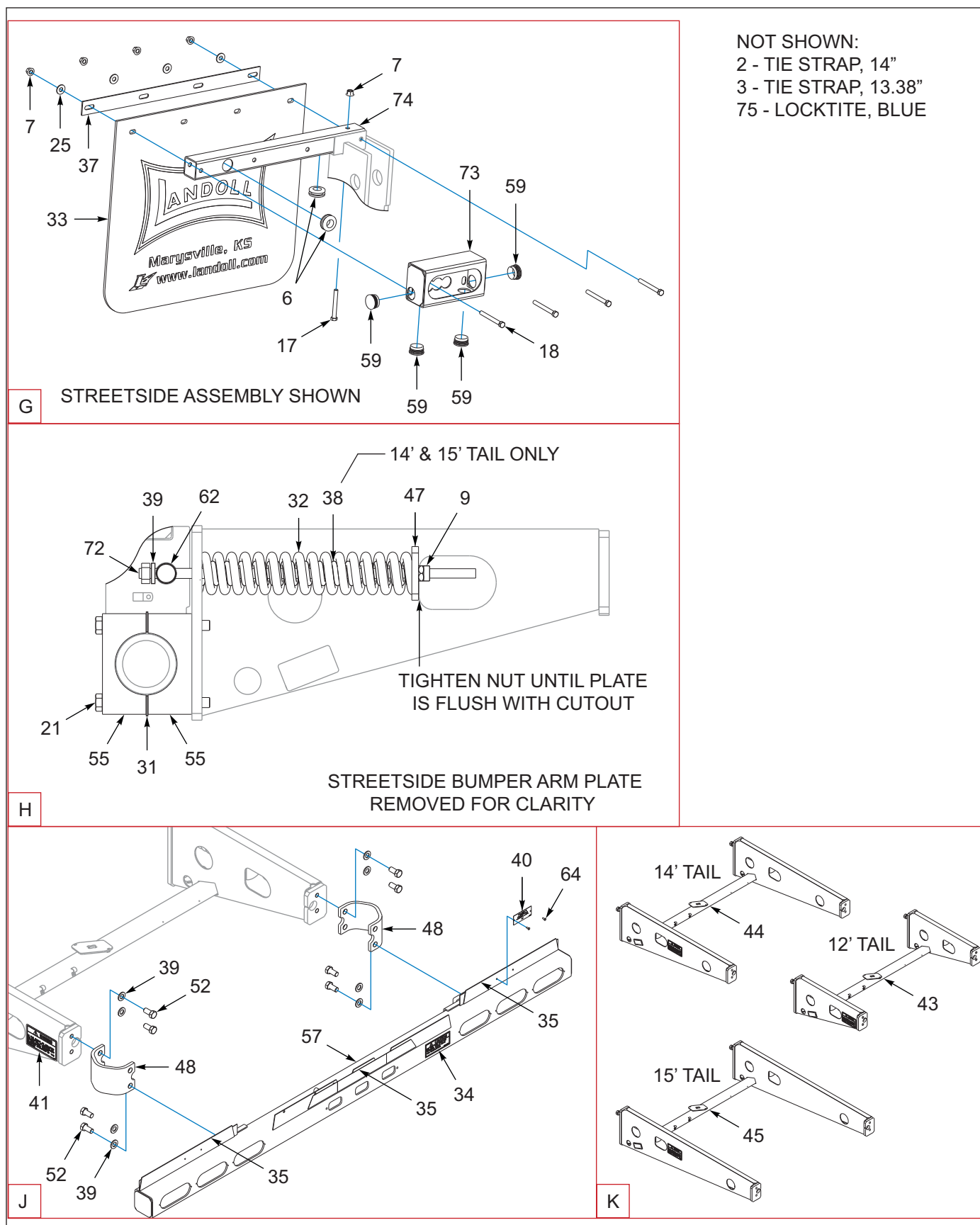


Figure 1-30: Undercarriage Components (3 of 3)

Undercarriage Components

ITEM	PART NUMBER	DESCRIPTION	QTY.
	214499	SUSP ASSY 930E-12 2512-77 (ALL MODELS)	--
	215086	SUSP ASSY 950E-12 2512-77 (ALL MODELS)	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	5
2	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0 (NOT SHOWN)	2
3	1-796-010004-02	TIE, STRAP, PLASTIC .301X13.38 (NOT SHOWN)	19
4	103817	CLAMP, HOSE 660 U/C	5
5	1-298-010001-1	ZERK FITTING 1/4 SAE (110-4954)	2
6	1-343-010006	GROMMET	4
7	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	10
8	1-511-010001-07	NUT, HEX JAM 5/8-11	2
9	1-512-010002-15	NUT, HEX SLFLKG 3/4-10 GRC	2
10	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
11	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	4
12	1-512-010005-13	NUT, HEX SLFLKG GRB 5/8-11	12
13	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8
14	1-630-010021-02	RING, RETAINING 2 HD	4
15	1-654-010051-03	SCREW, HEX CAP, 3/8-16UNCX3/4G5	2
16	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	2
17	1-654-010051-13	SCREW, HX CP, 3/8-16UNCX3, GR5	2
18	1-654-010051-15	SCREW HXCP 3/8-16UNCX3-1/2 G5	8
19	1-654-010055-05	SCREW, HEX CAP, 1/2-13UNCX2 GR5	4
20	1-654-010059-11	SCREW, HX CP 5/8-11UNCX3.5GR5	8
21	1-654-010061-21	SCREW, HX CP, 3/4-10UNCX8	4
22	1-654-010150-05	SCREW, SET, 5/8X2 SQ HD CP PNT	2
23	1-654-010158-1	SCREW, RHD, SQ NCK, 1/4-20UNCX3/4	8
24	1-861-010032-07	WASHER, FLAT 1/4 ZP	8
25	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	10
26	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
27	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	12
28	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	8
29	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	4
30	2-684-010001	SHIM ROCK SHAFT BEARING (5/8")	4
31	2-684-010045	SHIM, ROCK SHAFT BEARING 3/4"	4
32	2-720-010008	SPRING-SPRING CLAMP (3"OD X 18")	2
33	3-485-010001	FLAP, MUD 21 IN	2
34	3-573-010031	DECAL TRAILER BUMPER	1
35	3-573-010377	DECAL, 2" REFLEXITE TAPE, RD/WHT (BY THE INCH)	84
36	3-720-010042	SPRING AIR 6-1/2	1
37	3-762-010017	CLAMP MUD FLAP	2
38	8-720-010013	SPRING COMPRESSION REEL (14' & 15' ONLY) (1.844"ID X 19")	2
39	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	10
40	103055	PLACARD, ENERGY BUMPER CERT (NOT SOLD SEPARATELY, COMES ATTACHED WITH NEW BUMPER ONLY)	1
41	103056	DECAL, ENERGY BUMPER WARNING	1
42	107470	NUT, SPIRALOCK 3/8-16HX	2
43	225659	BUMPER ARM 12' PC BLK 107582 (12')	1
43	225660	GALV OF 107582 (12' BMPR ARM) (12' GALV)	1
44	225661	BUMPER ARM 14' PC BLK 110649 (14')	1

Undercarriage Components

ITEM	PART NUMBER	DESCRIPTION	QTY.
44	225662	GALV OF 110649 (14' BMPR ARM) (14' GALV)	1
45	225663	BUMPER ARM 15' PC BLK 109120 (15')	1
45	225664	GALV OF 109120 (15' BMPR ARM) (15' GALV)	1
46	107588	PLATE WLDMT LIFT GUIDING	1
47	107592	PLATE SPG TENSION ZINC PLTD	2
48	107594	MOUNT BUMPER ENERGY PAK	2
49	107621	GLIDE U/C 930	2
50	107622	BLOCK MTG NYLN HOLDDOWN	2
51	107732	DOCK WLDMT, LIFT ARM	1
52	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	8
53	108749	SHIM,NYLATRON BLOCK 930	2
54	109138	NYLATRON HOLD-DOWN BLK	2
55	109158	BEARING CAST BUMPER PIVOT	8
56	109207	SCREW 3/8-16X6 HHCS FULLTHRD	2
57	109524	BUMPER WLDMT 930 LONG TAIL	1
57	204956	GALV OF 204952 BUMPER WLDMT	1
58	114562	BUSHING MACHINE HARD 3X2X10GA	2
59	116324	PLUG,PLAST PANEL1-5/16&1-7/16	8
60	135613	ROLLER 4 IN. ASSY CONNEX	2
61	135615	PIN ROLLERS REAR 930 U/C	2
62	142457	PIN SPRING 930 BUMPER	2
63	171892	SCREW, HEX CAP 5/8-11UNCX9 GR5	4
64	184138	RIVET, BLIND .187 X 3/16 GRIP	2
65	189378	FI KIT,E-CHAIN,18 LNK W/BRKTS (930, 65A) (INCLUDES ITEMS 66A-67) (NOT SHOWN)	1
65	189379	FI KIT,E-CHAIN,23 LNK W/BRKTS (950, 65B) (INCLUDES ITEMS 66B-67) (NOT SHOWN)	1
66	189320	SUPPORT, E-CHAIN,18 LINKS,3838 (930, 66A) (PART OF ITEM 65A) (INDIVIDUAL LINK PT#189313, INDIVIDUAL CROSSBARS OR END PLATES NOT AVAILABLE)	1
66	189319	SUPPORT, E-CHAIN,23 LINKS,3838 (950, 66B) (PART OF ITEM 65B) (INDIVIDUAL LINK PT#189313, INDIVIDUAL CROSSBARS OR END PLATES NOT AVAILABLE)	1
67	197586	BRACKET KIT (4) 3838 E-CHAIN (INCLUDES ITEMS 68-71) (NOT SHOWN)	1
68	190701	BRACKET WLDMT E-CHAIN LH (PART OF ITEMS 65 & 67) (USED ON INTERNAL LINK)	1
69	190706	BRACKET WLDMT E-CHAIN RH (PART OF ITEMS 65 & 67) (USED ON INTERNAL LINK)	1
70	190700ZP	ZINC PLATE BRACKET E-CHAIN LH (PART OF ITEMS 65 & 67) (USED ON EXTERNAL LINK)	1
71	190705ZP	ZINC PLATE BRACKET E-CHAIN RH (PART OF ITEMS 65 & 67) (USED ON EXTERNAL LINK)	1
72	216805	ROD WLDMT SPG TNSN BMPR LNG	2
73	216230	MOUNT WLDMT MUD FLAP S/T/T (BEFORE 11/01/2019)	
73	223257	MOUNT WLDMT MUDFLAP S/T/T GALV (AFTER 11/01/2019)	2
74	108746	BRACKET, MUD FLAP 930 (BEFORE 11/01/2019)	
74	223259	BRACKET, MUD FLAP 930 GALV (AFTER 11/01/2019)	2
75	#242LOCKTITE	LOCKTITE 242 BLUE REMOVABLE (NOT SHOWN)	0.05

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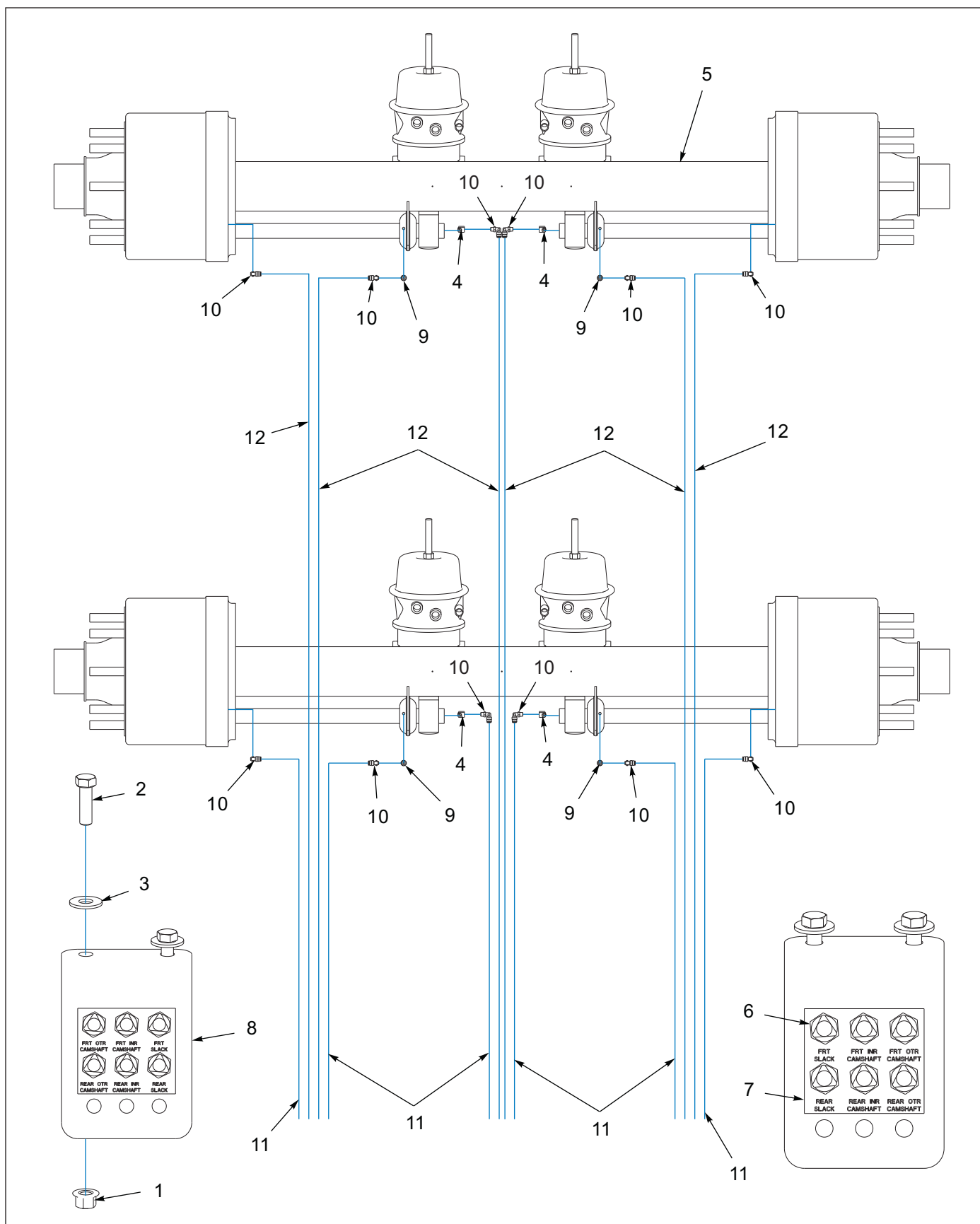


Figure 1-31: Grease System, 2 Axle (Before 11/07/2018)

Grease System, 2 Axle (Before 11/07/2018)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	214499	SUSP ASSY 930E-12 2512-77	--
	214500	SUSP ASSY 930E-12 2516-75	--
	215051	SUSP ASSY 930E-14 2512-77	--
	215052	SUSP ASSY 930E-14 2516-75	--
	215053	SUSP ASSY 930E-15 2512-77	--
	215054	SUSP ASSY 930E-15 2516-75	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	4
5	115747	AXLE WLDMT 2512SPG 77X39.5 TIS	--
6	142545	NUT 7/16 FOR BULKHEAD	12
7	142553	DECAL, GREASE TRL U/C	2
8	143649	BRACKET BULKHEAD GREASE LINE	2
9	202094	ADAPTER 5/16- -18X1/8NPT(F)	4
10	202099	FITTING GREASE 90 SWIV PTC 1/8	12
11	202103	HOSE ASSY GREASE 1/8 X 45	6
12	202111	HOSE ASSY GREASE 1/8 X 102	6

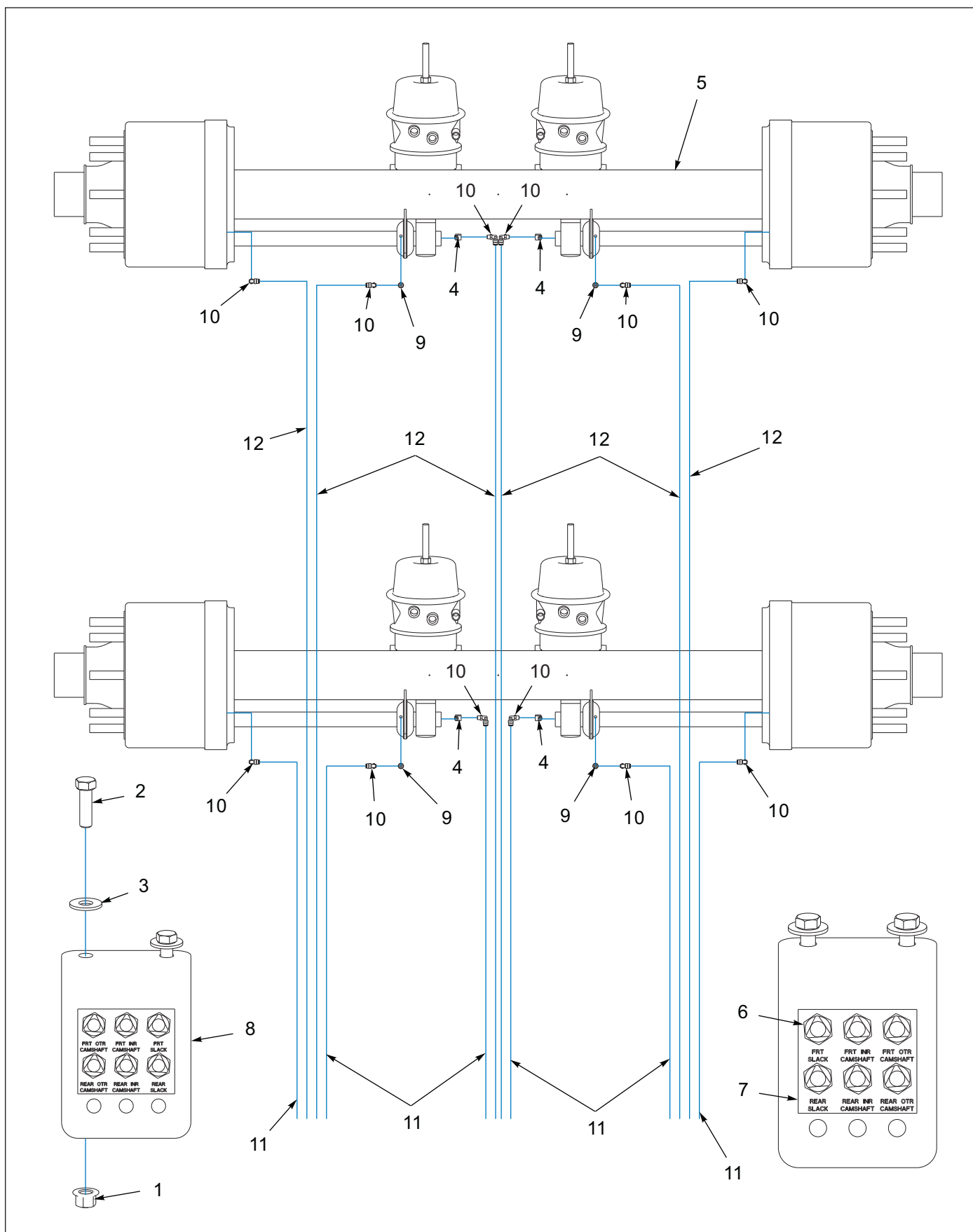
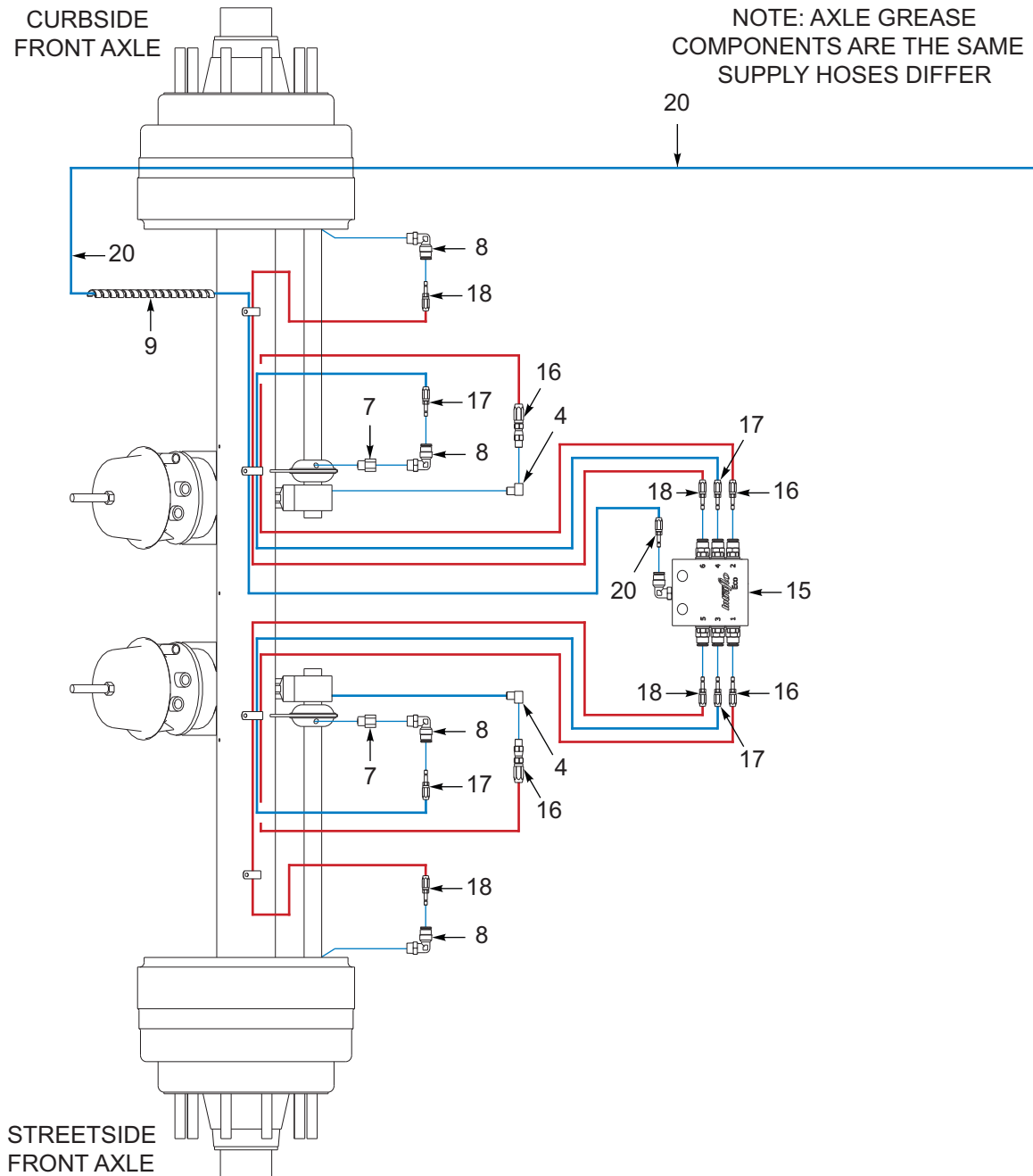


Figure 1-32: Grease System, 2 Axle (After 11/07/2018 - Before 08/31/2020)

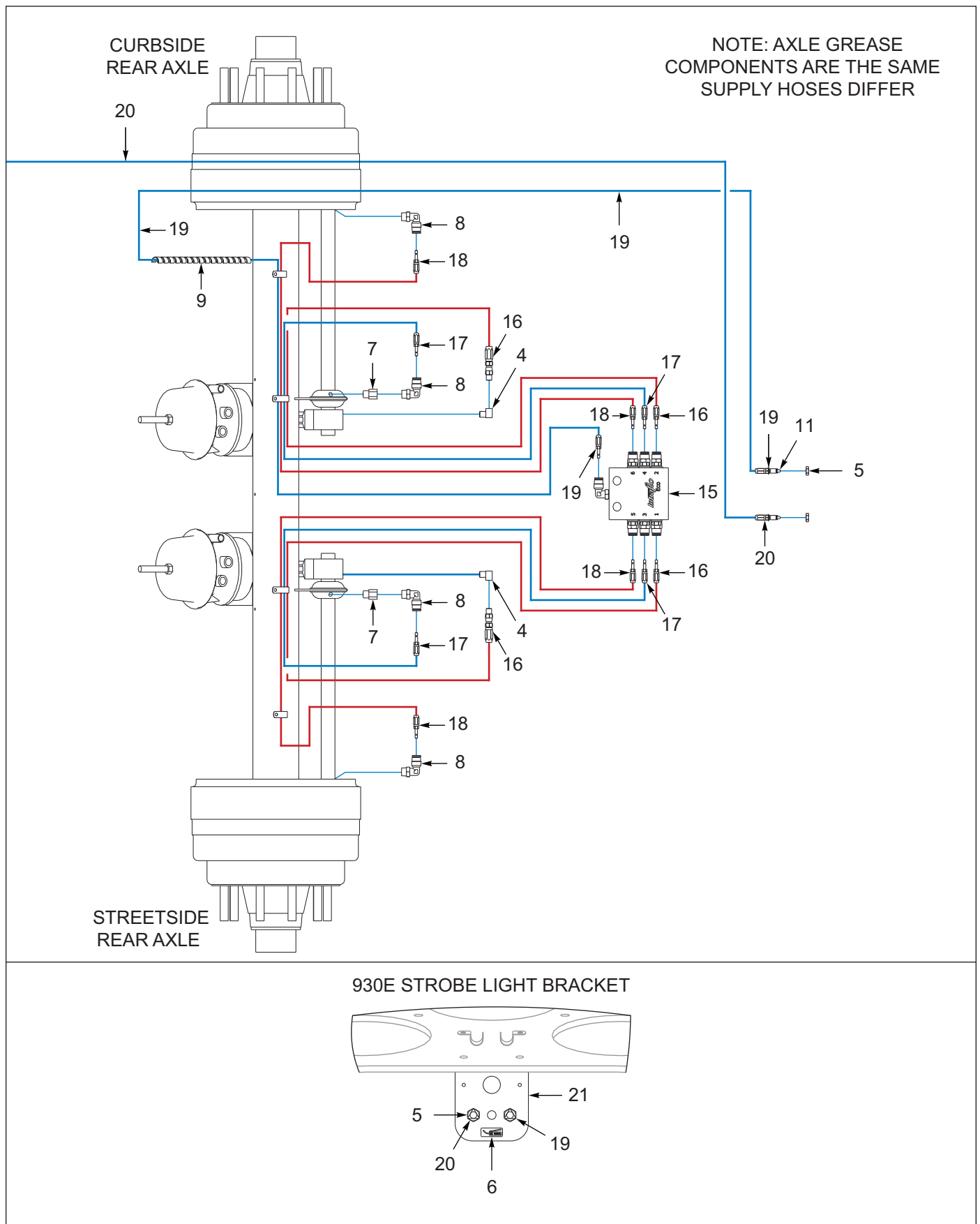
Grease System, 2 Axle (After 11/07/2018 - Before 08/31/2020)

ITEM	PART NUMBER	DESCRIPTION	QTY
	214499	SUSP ASSY 930E-12 2512-77	--
	214500	SUSP ASSY 930E-12 2516-75	--
	215051	SUSP ASSY 930E-14 2512-77	--
	215052	SUSP ASSY 930E-14 2516-75	--
	215053	SUSP ASSY 930E-15 2512-77	--
	215054	SUSP ASSY 930E-15 2516-75	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	4
5	115747	AXLE WLDMT 2512SPG 77X39.5 TIS	--
6	142545	NUT 7/16 FOR BULKHEAD	12
7	142553	DECAL, GREASE TRL U/C	2
8	143649	BRACKET BULKHEAD GREASE LINE	2
9	202094	ADAPTER 5/16- -18X1/8NPT(F)	4
10	202099	FITTING GREASE 90 SWIV PTC 1/8	8
11	202103	HOSE ASSY GREASE 1/8 X 45	6
12	202111	HOSE ASSY GREASE 1/8 X 102	6
13	216599	FITTING,GREASE 1/4 TUBE X 1/8	4



NOT SHOWN:
13 - TIE, STRAP, PLASTIC
14 - VALVE, AXLE GREASE ASSY (ITEMS 15-18)

Figure 1-33: Grease System, 2 Axle (After 08/31/2020) (1 of 3)



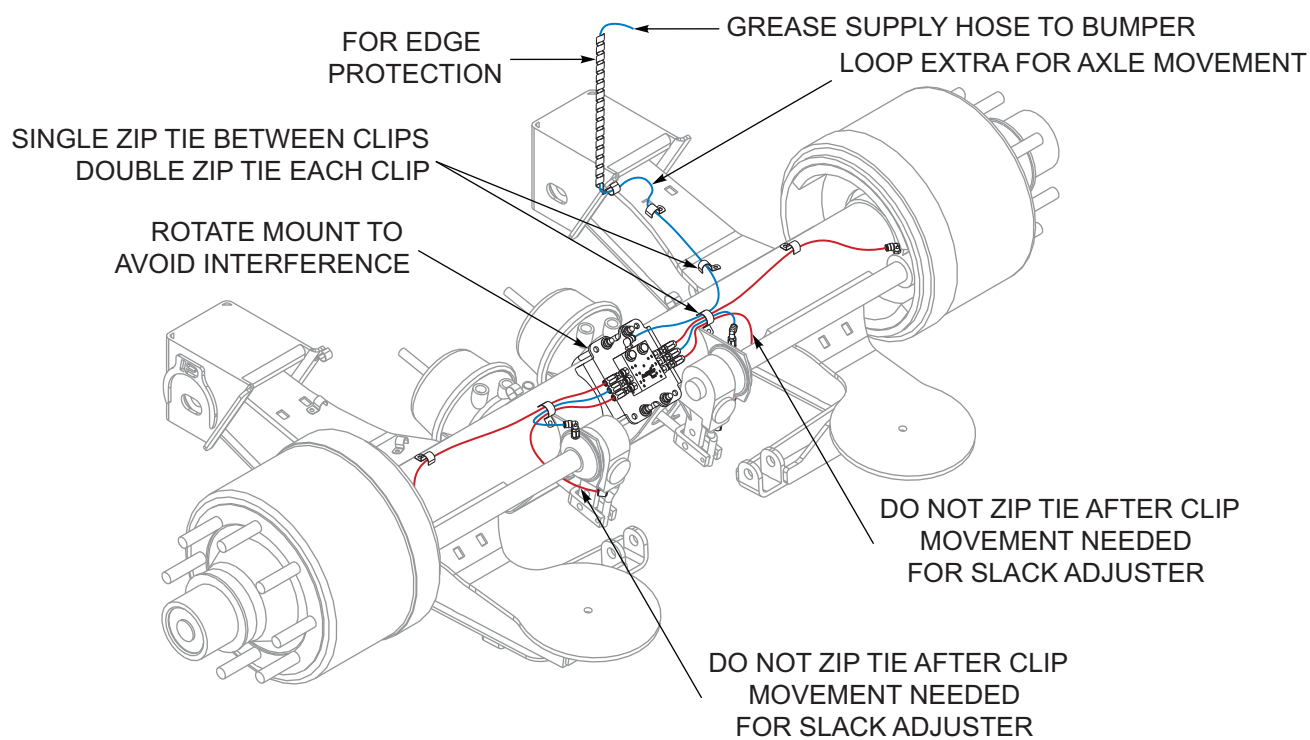
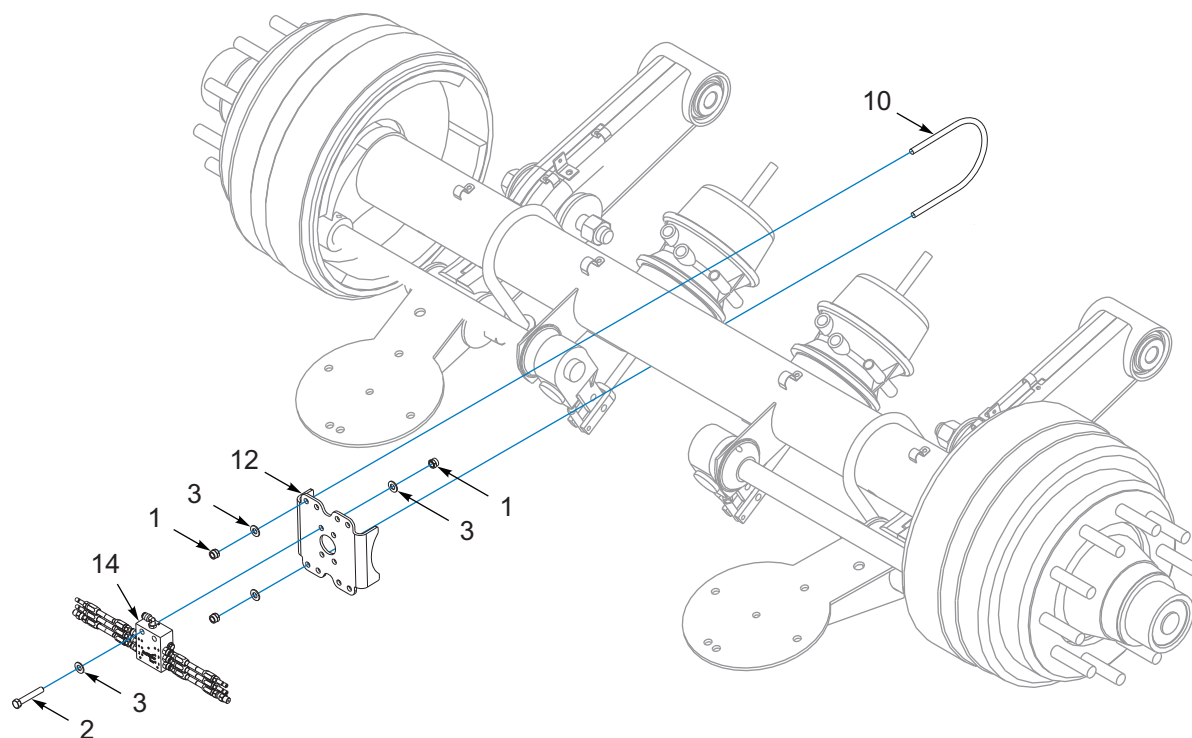


Figure 1-35: Grease System, 2 Axle (After 08/31/2020) (3 of 3)

Grease System, 2 Axle (After 08/31/2020)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	214499	SUSP ASSY 930E-12 2512-77 (12', 14', 15')	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (QTY PER AXLE)	6
2	1-654-010051-10	SCREW,HX CP3/8-16X2-1/4 GR5 (QTY PER AXLE)	2
3	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD (QTY PER AXLE)	8
4	101528	ELBOW,BRASS PIPE STREET (QTY PER AXLE)	2
5	142545	NUT 7/16 FOR BULKHEAD (QTY PER AXLE)	1
6	2-573-010330-04	DECAL LUBRICATION, SEE MANUAL	1
7	202094	ADAPTER 5/16- -18X1/8NPT(F) (QTY PER AXLE)	2
8	202099	FITTING GREASE 90 SWIV PTC 1/8 (QTY PER AXLE)	4
9	212785	SPIRAL LOOM, 1/2" BLACK (BY THE FOOT) (1 FOOT PER AXLE)	--
10	222479	U-BOLT 3/8-16X5X6-3/4X2" T ZP (QTY PER AXLE)	2
11	1-298-010001-1	ZERK FITTING 1/4 SAE (PART OF ITEMS 19-20, INCLUDES 1 EACH)	--
12	224325	MOUNT BOLT-ON AXLE GREASE VLV (QTY PER AXLE)	1
13	1-796-010003-01	TIE, STRAP, PLASTIC .184X7.31 (BY THE LB) (NOT SHOWN)	--
14	229177	VALVE AXLE GREASE ASM 22-16-28 (QTY PER AXLE) (KIT INCLUDES ITEMS 15-18)	1
15	224304	VALVE AXLE GREASE DIVIDER (INCLUDES VALVE FITTINGS, VALVE FITTINGS NOT SOLD SEPARATELY)	1
16	225770	HOSE ASSY GREAST 1/8" X 22" (PORTS 1 & 2)	2
17	229178	HOSE ASSY GREASE 1/8" X 16" (PORTS 3 & 4)	2
18	229182	HOSE ASSY GREASE 1/8" X 28" (PORTS 5 & 6)	2
19	202111	HOSE ASSY GREASE 1/8 X 102 (REAR AXLE) (INCLUDES ITEM 11, 1 EACH)	1
20	202118	HOSE ASSY GREASE 1/8 X 156 (FRONT AXLE) (INCLUDES ITEM 11, 1 EACH)	1
21	225884	BRACKET U/C STRB/GRSE BULKHEAD	1

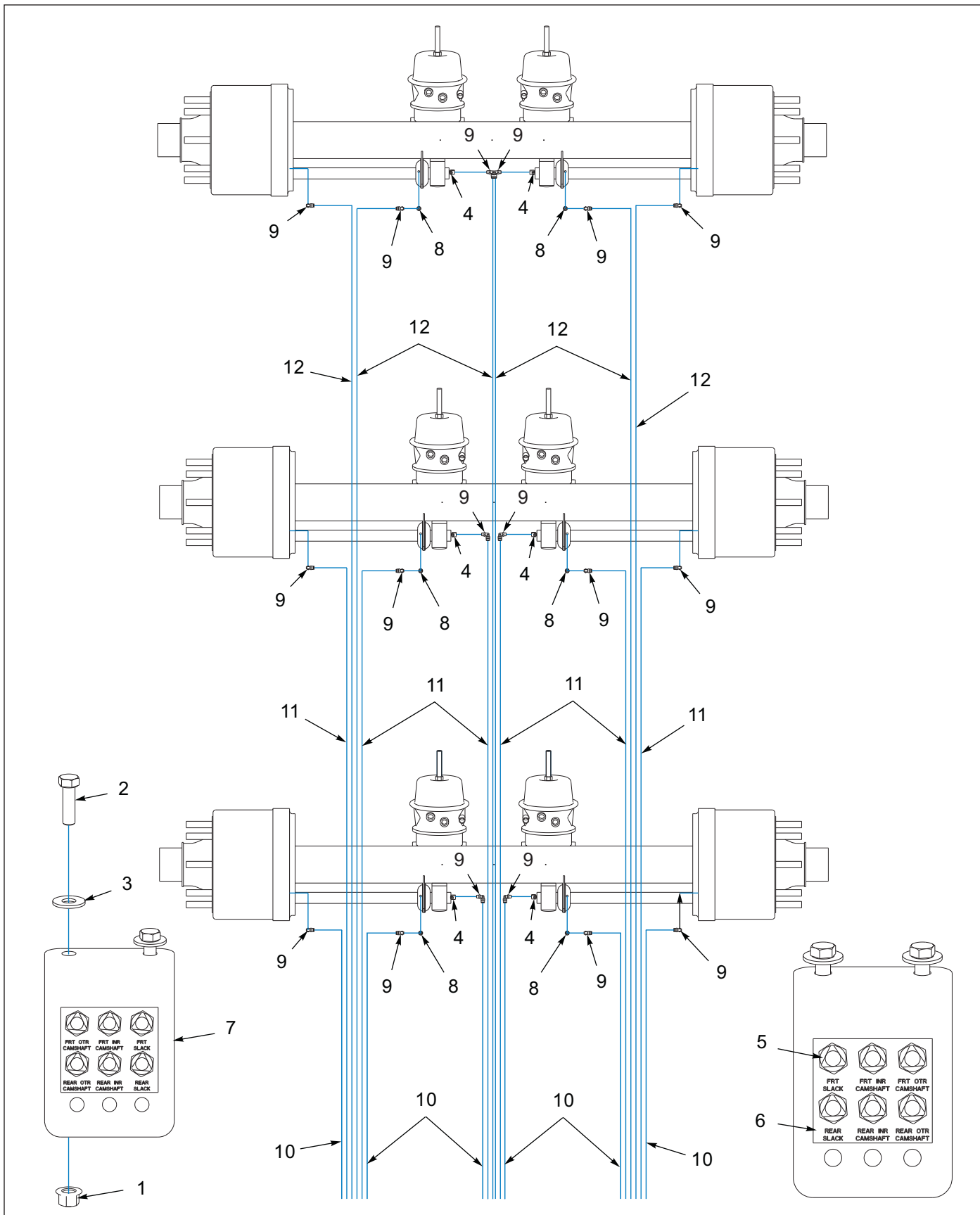


Figure 1-36: Grease System, 3 Axle (Before 11/07/2018)

Grease System, 3 Axle (Before 11/07/2018)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	215086	SUSP ASSY 950E-12 2512-77	--
	215087	SUSP ASSY 950E-12 2516-75	--
	215088	SUSP ASSY 950E-14 2512-77	--
	215089	SUSP ASSY 950E-14 2516-75	--
	215090	SUSP ASSY 950E-15 2512-77	--
	215091	SUSP ASSY 950E-15 2516-75	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	6
5	142545	NUT 7/16 FOR BULKHEAD	18
6	142553	DECAL, GREASE TRL U/C	2
7	143649	BRACKET BULKHEAD GREASE LINE	2
8	202094	ADAPTER 5/16- -18X1/8NPT(F)	6
9	202099	FITTING GREASE 90 SWIV PTC 1/8	18
10	202103	HOSE ASSY GREASE 1/8 X 45	6
11	202111	HOSE ASSY GREASE 1/8 X 102	6
12	202119	HOSE ASSY GREASE 1/8 X 162	6
13	43028	HOSE WRAP AEROQUIP 3/8 (NOT SHOWN)	1

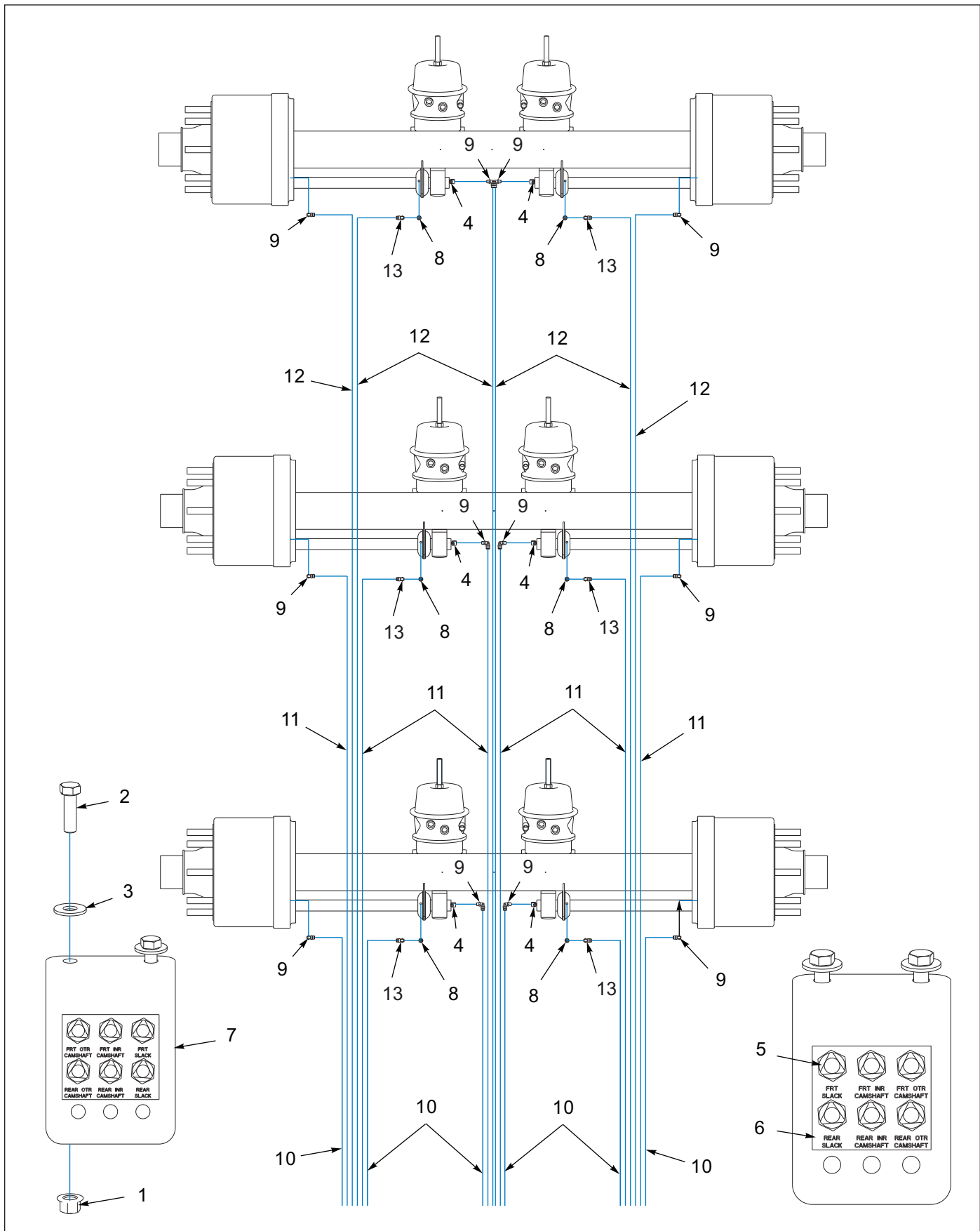


Figure 1-37: Grease System, 3 Axle (After 11/07/2018 - Before 08/31/2020)

Grease System, 3 Axle (After 11/07/2018 - Before 08/31/2020)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	215086	SUSP ASSY 950E-12 2512-77	--
	215087	SUSP ASSY 950E-12 2516-75	--
	215088	SUSP ASSY 950E-14 2512-77	--
	215089	SUSP ASSY 950E-14 2516-75	--
	215090	SUSP ASSY 950E-15 2512-77	--
	215091	SUSP ASSY 950E-15 2516-75	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	6
5	142545	NUT 7/16 FOR BULKHEAD	18
6	142553	DECAL, GREASE TRL U/C	2
7	143649	BRACKET BULKHEAD GREASE LINE	2
8	202094	ADAPTER 5/16- -18X1/8NPT(F)	6
9	202099	FITTING GREASE 90 SWIV PTC 1/8	12
10	202103	HOSE ASSY GREASE 1/8 X 45	6
11	202111	HOSE ASSY GREASE 1/8 X 102	6
12	202119	HOSE ASSY GREASE 1/8 X 162	6
13	216599	FITTING,GREASE 1/4 TUBE X 1/8	6
14	43028	HOSE WRAP AEROQUIP 3/8 (NOT SHOWN)	1

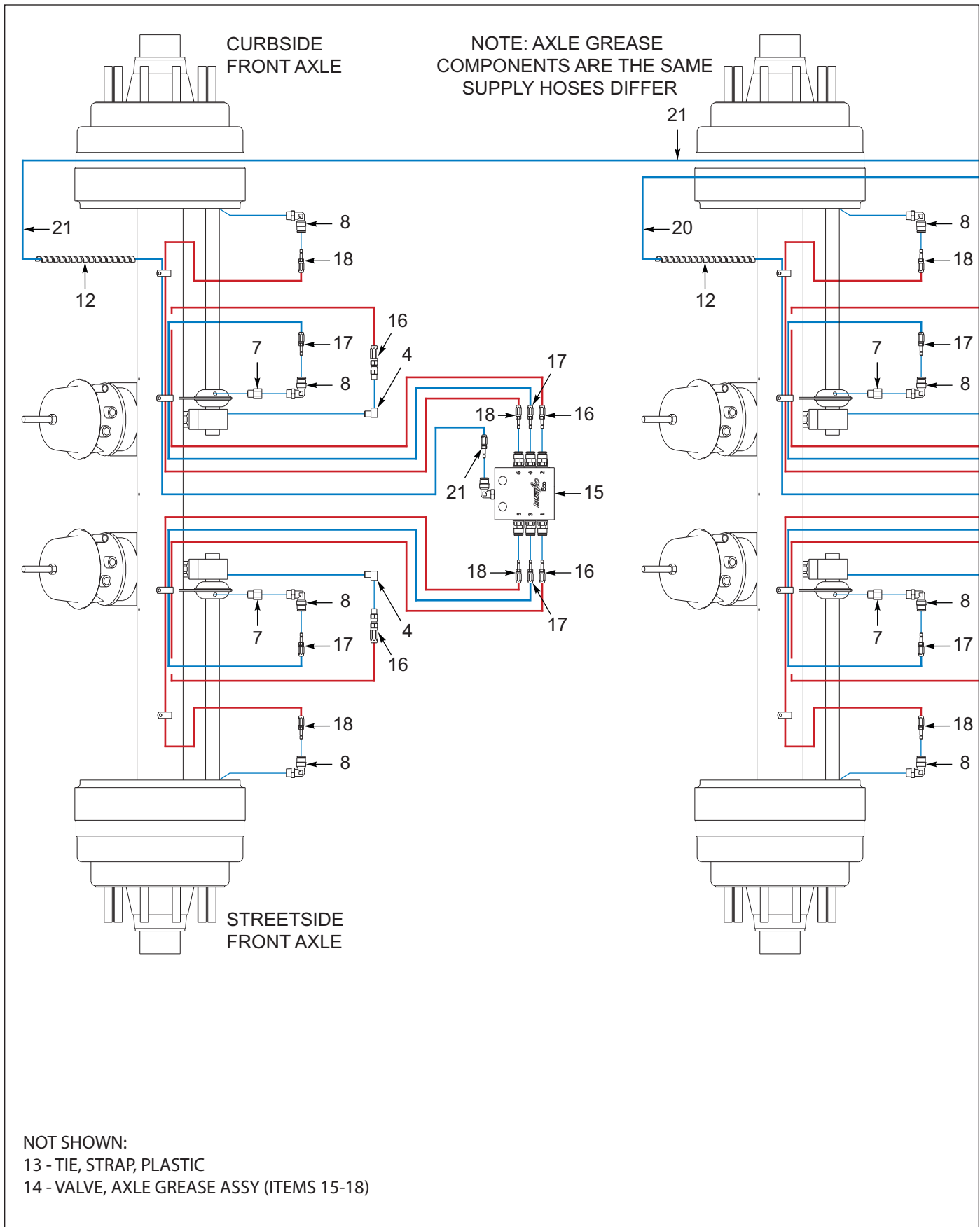


Figure 1-38: Grease System, 3 Axle (After 08/31/2020) (1 of 3)

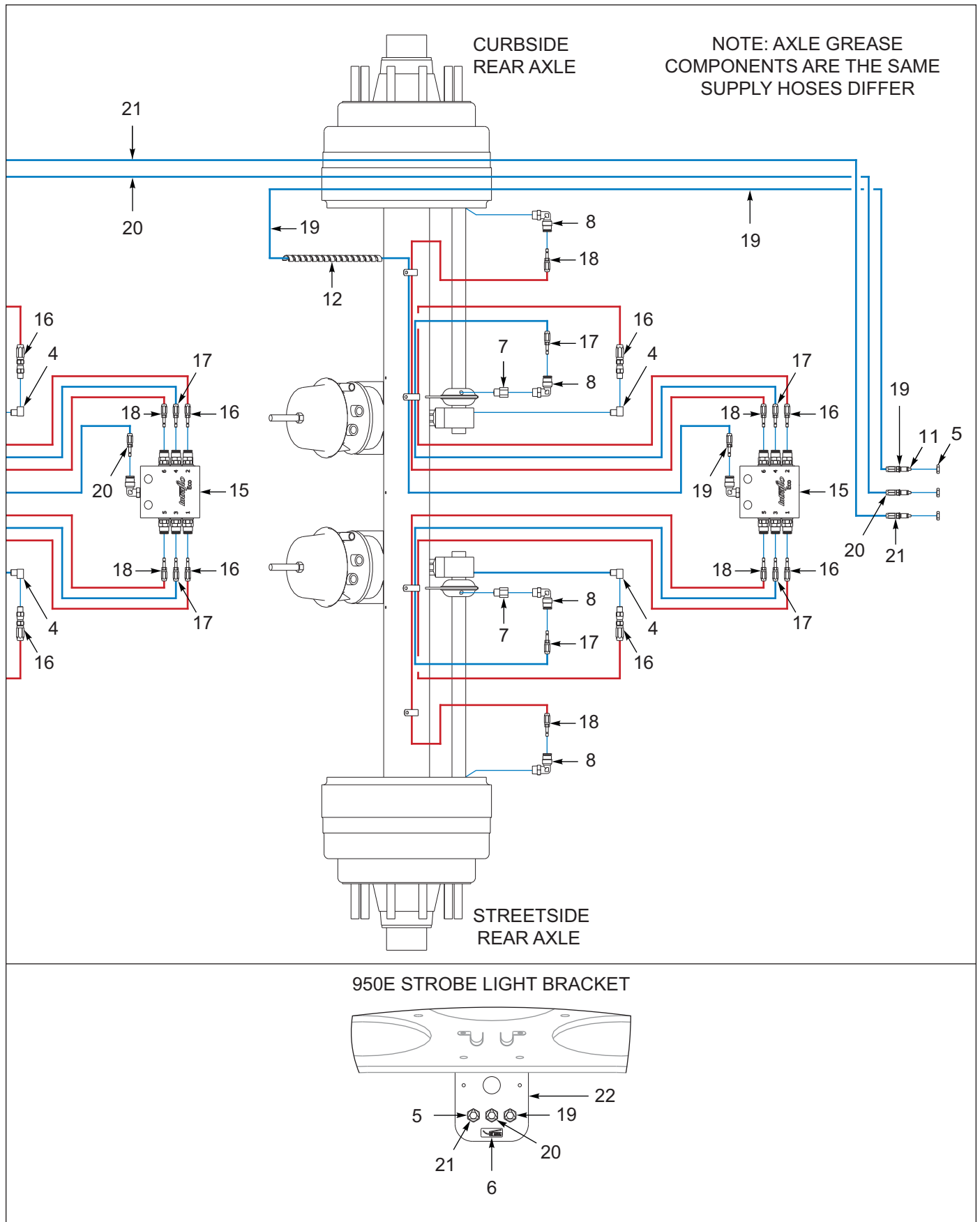


Figure 1-39: Grease System, 3 Axle (After 08/31/2020) (2 of 3)

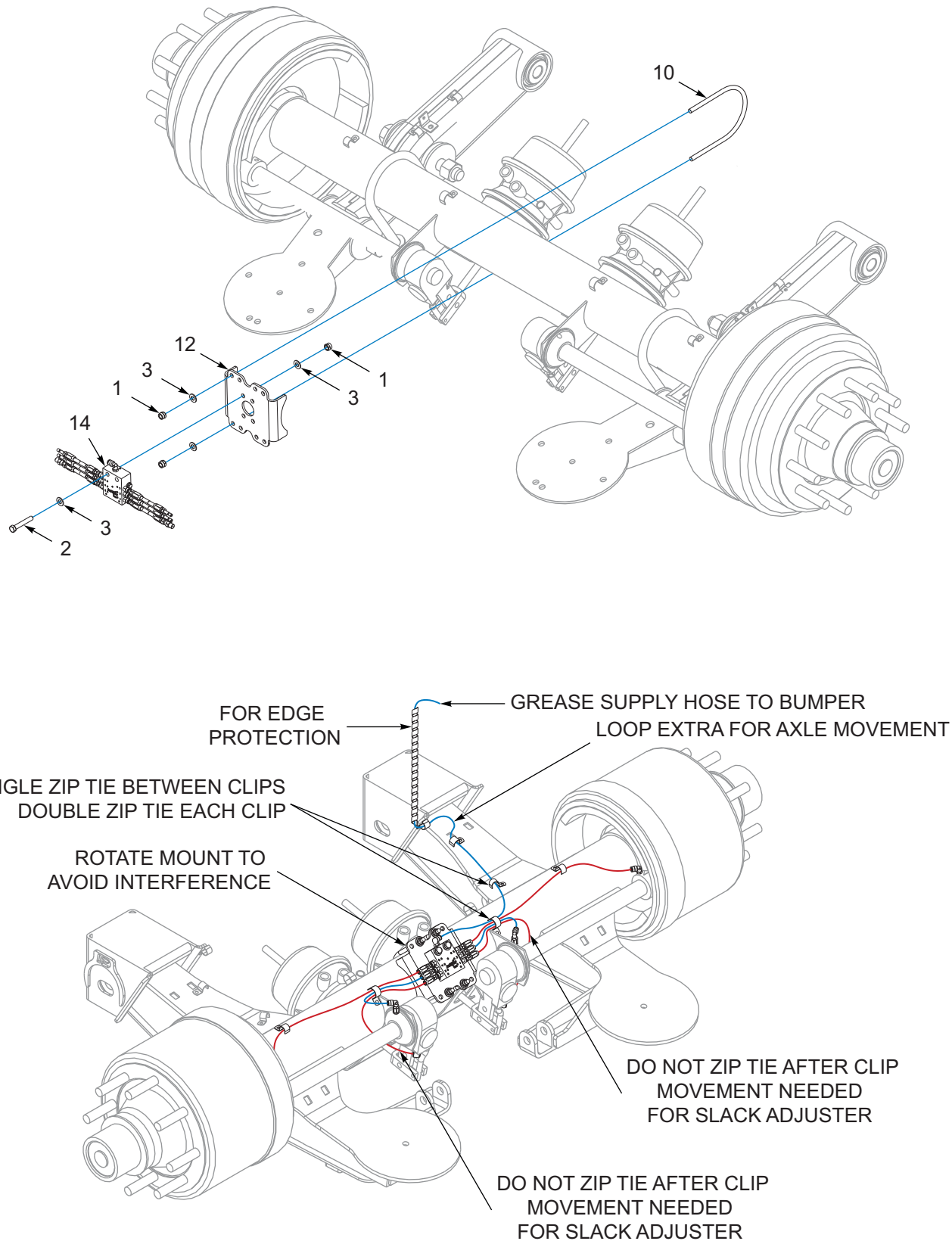


Figure 1-40: Grease System, 3 Axle (After 08/31/2020) (3 of 3)

Grease System, 3 Axle (After 08/31/2020)

ITEM	PART NUMBER	DESCRIPTION	QTY
	215086	SUSP ASSY 950E-12 2512-77 (12', 14', 15')	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (QTY PER AXLE)	6
2	1-654-010051-10	SCREW, HX CP3/8-16X2-1/4 GR5 (QTY PER AXLE)	2
3	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD (QTY PER AXLE)	8
4	101528	ELBOW, BRASS PIPE STREET (QTY PER AXLE)	2
5	142545	NUT 7/16 FOR BULKHEAD (QTY PER AXLE)	1
6	2-573-010330-04	DECAL LUBRICATION, SEE MANUAL	1
7	202094	ADAPTER 5/16-18X1/8NPT(F) (QTY PER AXLE)	2
8	202099	FITTING GREASE 90 SWIV PTC 1/8 (QTY PER AXLE)	4
9	212785	SPIRAL LOOM, 1/2" BLACK (BY THE FOOT) (1 FOOT PER AXLE)	--
10	222479	U-BOLT 3/8-16X5X6-3/4X2" T ZP (QTY PER AXLE)	2
11	1-298-010001-1	ZERK FITTING 1/4 SAE (PART OF ITEMS 19-21, INCLUDES 1 EACH)	--
12	224325	MOUNT BOLT-ON AXLE GREASE VLV (QTY PER AXLE)	1
13	1-796-010003-01	TIE, STRAP, PLASTIC .184X7.31 (BY THE LB) (NOT SHOWN)	--
14	229177	VALVE AXLE GREASE ASM 22-16-28 (QTY PER AXLE) (KIT INCLUDES ITEMS 15-18)	1
15	224304	VALVE AXLE GREASE DIVIDER (INCLUDES VALVE FITTINGS, VALVE FITTINGS NOT SOLD SEPARATELY)	1
16	225770	HOSE ASSY GREASE 1/8" X 22" (PORTS 1 & 2)	2
17	229178	HOSE ASSY GREASE 1/8" X 16" (PORTS 3 & 4)	2
18	229182	HOSE ASSY GREASE 1/8" X 28" (PORTS 5 & 6)	2
19	202112	HOSE ASSY GREASE 1/8 X 118 (REAR AXLE) (INCLUDES ITEM 11, 1 EACH)	1
20	202119	HOSE ASSY GREASE 1/8 X 162 (MIDDLE AXLE) (INCLUDES ITEM 11, 1 EACH)	1
21	229181	HOSE ASSY GREASE 1/8 X 210 (FRONT AXLE) (INCLUDES ITEM 11, 1 EACH)	1
22	225884	BRACKET U/C STRB/GRSE BULKHEAD	1

Suspensions

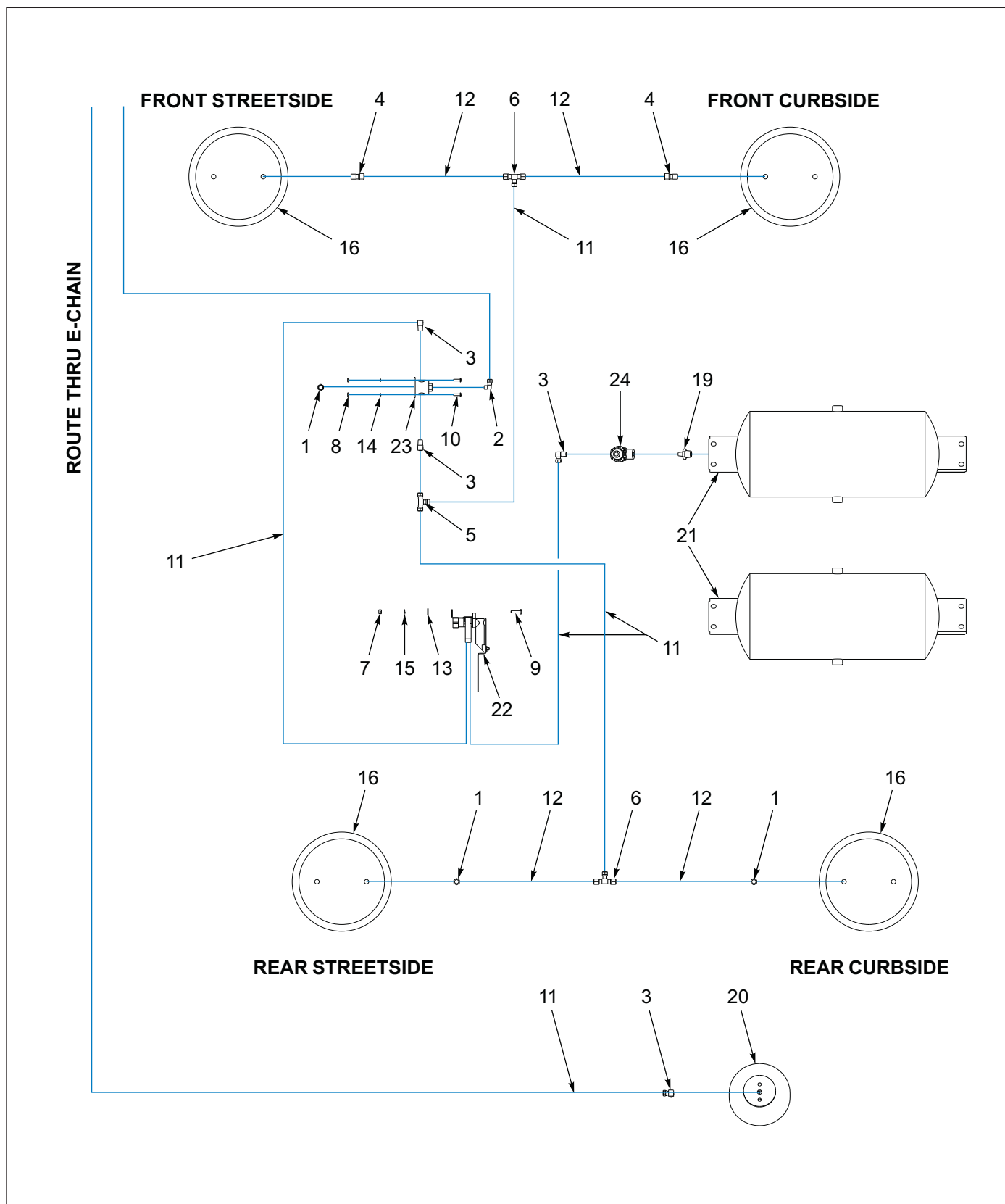


Figure 1-41: 930E-Air Ride Suspension

930E-Air Ride Suspension

ITEM	PART NUMBER	DESCRIPTION	QTY.
	214499	SUSP 930E-12, 2512-77	--
	214500	SUSP 930E-12, 2516-75	--
	215051	SUSP 930E-14, 2512-77	--
	215052	SUSP 930E-14, 2516-75	--
	215053	SUSP 930E-15, 2512-77	--
	215054	SUSP 930E-15, 2516-75	--
1	1-297-010007-11	FITTING,AIR,3/8TUBE TO 1/4NPT	3
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	4
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	2
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	2
7	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
10	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
11	1-833-010001	TUBING NYLON 1/4 OD	65
12	1-833-010002	TUBING NYLON 3/8 OD	6
13	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
14	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	4
15	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	2
16	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-75)	REF
17	102732	AIR CONTROL KIT (SEE PAGE 1-72) (NOT SHOWN)	1
18	109177	CONTROL KIT AIR SUSP LOWER (SEE PAGE 1-73) (NOT SHOWN)	1
19	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
20	3-720-010042	SPRING AIR 6-1/2	REF
21	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	REF
22	900 54 007	HEIGHT CONTROL VALVE	REF
23	900-54-079	PILOT VALVE	REF
24	905-54-107	BRAKE PROTECTION VALVE	REF

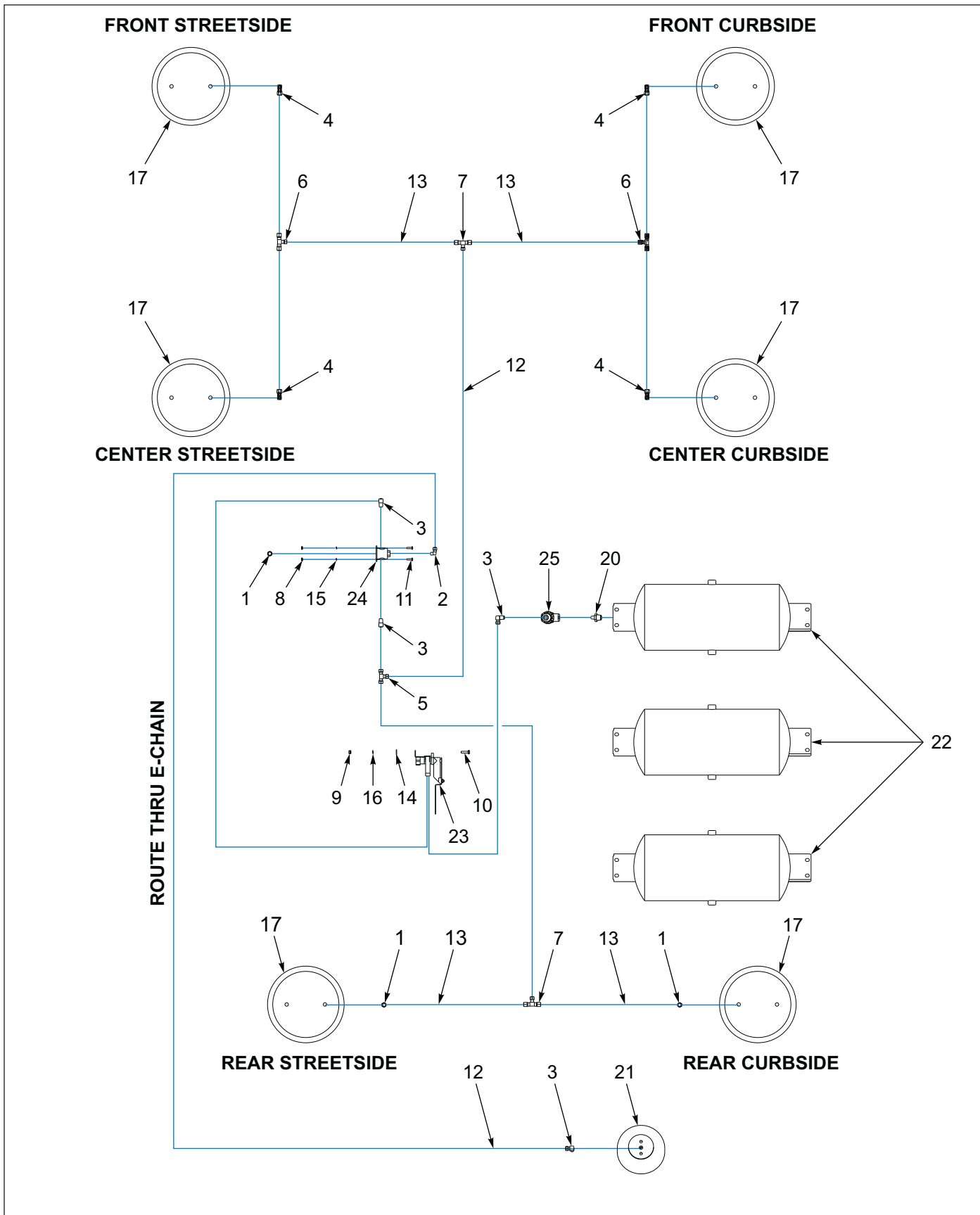


Figure 1-42: 950E-Air Ride Suspension

950E-Air Ride Suspension

ITEM	PART NUMBER	DESCRIPTION	QTY.
	215086	SUSP 950E-12, 2512-77	--
	215087	SUSP 950E-12, 2516-75	--
	215088	SUSP 950E-14, 2512-77	--
	215099	SUSP 950E-14, 2516-75	--
	215090	SUSP 950E-15, 2512-77	--
	215091	SUSP 950E-15, 2516-75	--
1	1-297-010007-11	FITTING,AIR,3/8TUBE TO 1/4NPT	3
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	4
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	2
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-297-010010-03	FITTING,AIR,UNION TEE 3/8	2
7	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-512-010007-05	NUT, HEX 1/4-20 UNC, GR2	2
10	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
11	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
12	1-833-010001	TUBING NYLON 1/4 OD	65
13	1-833-010002	TUBING NYLON 3/8 OD	6
14	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
15	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	4
16	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	2
17	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-75)	REF
18	102732	AIR CONTROL KIT (SEE PAGE 1-72)	1
19	109177	CONTROL KIT AIR SUSP LOWER (SEE PAGE 1-73)	1
20	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
21	3-720-010042	SPRING AIR 6-1/2	REF
22	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	REF
23	900 54 007	HEIGHT CONTROL VALVE N	REF
24	900-54-079	PILOT VALVE	REF
25	905-54-107	BRAKE PROTECTION VALVE	REF
26	43028	HOSE WRAP AEROQUIP 3/8 (NOT SHOWN)	1

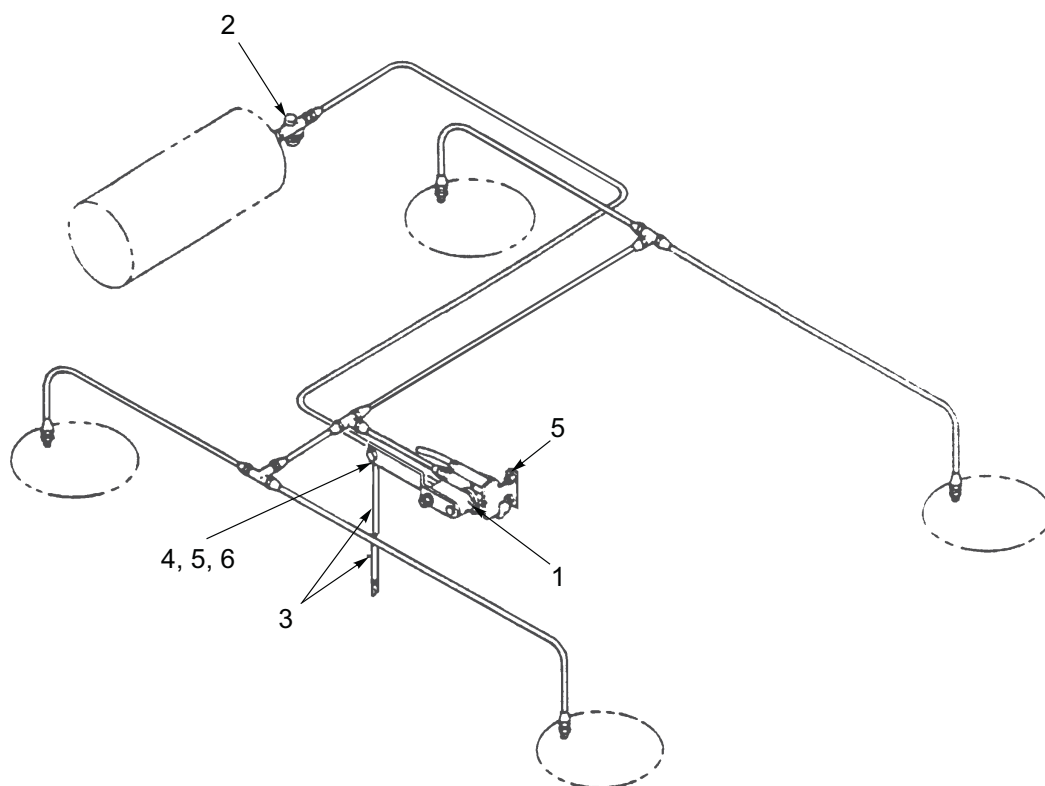
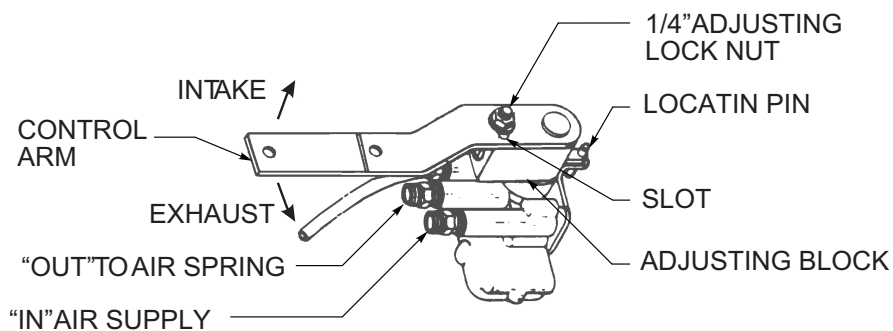


Figure 1-43: Air Control Kit - Neway

Air Control Kit - Neway

ITEM	PART NUMBER	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	905-54-107	AIR PRESSURE PROTECTION VALVE & FILTER	1
3	111021	SRK - 167 KIT - ADJ. LINK ASSEMBLY	1
4	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	-----	DECAL - OPERATING	1

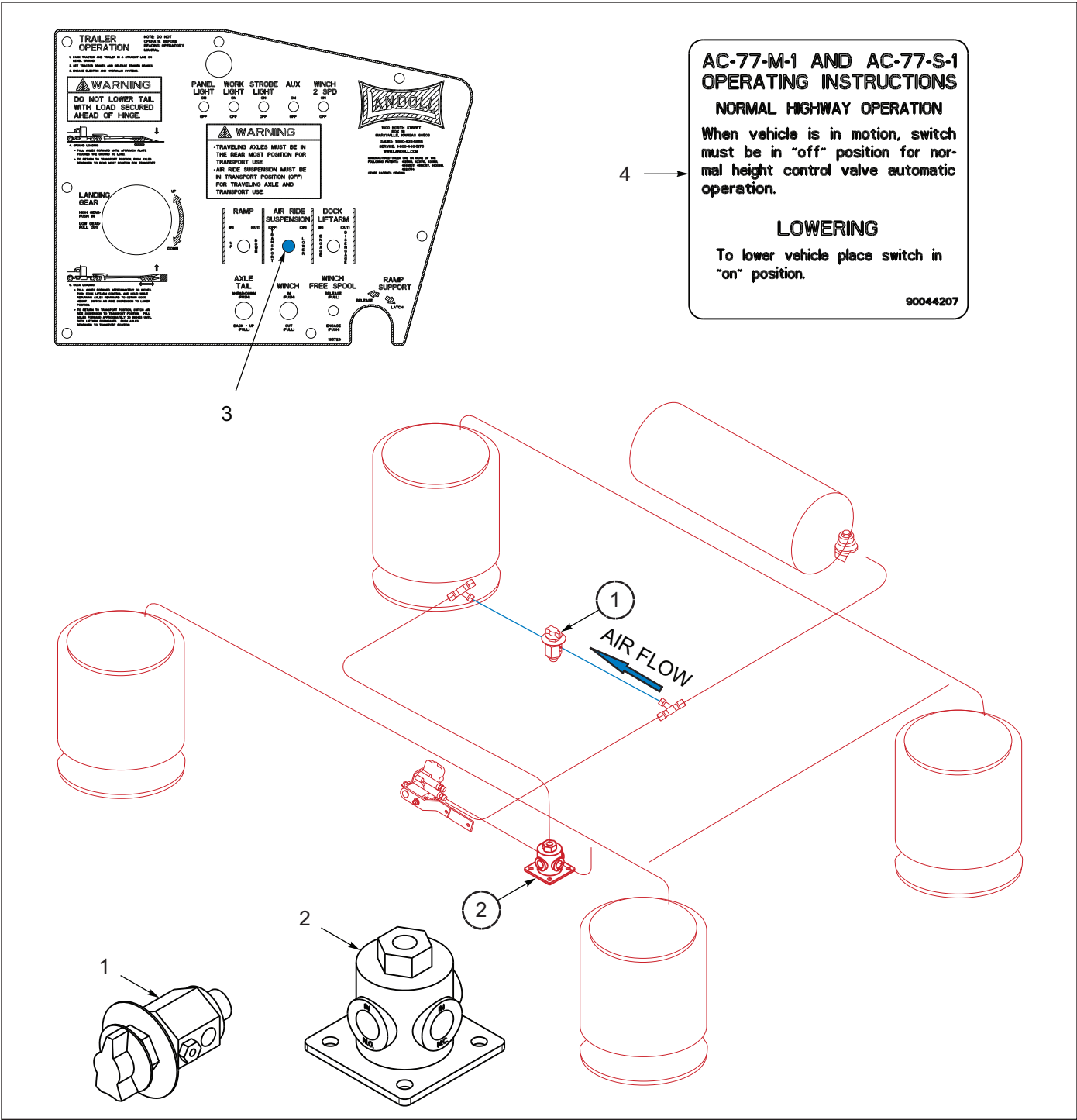


Figure 1-44: Air Control Kit - Lower Suspension

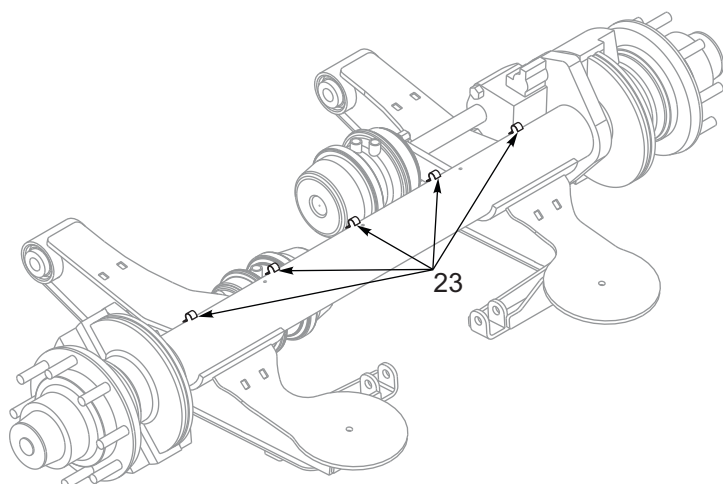
Air Control Kit - Lower Suspension

ITEM	PART NUMBER	DESCRIPTION	QTY.
	109177	AIR CONTROL KIT - LOWER SUSPENSION	
1	900-54-088	VALVE MANUALLY OPERATED	1
2	900-54-079	PILOT VALVE (LOCATED ON UNDERCARRIAGE)	1
3	-----	DECAL (NOT SHOWN)	1
4	900-44-207	DECAL	1



Suspension Hanger, RLU-228

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 (INCLUDES ITEMS 1-9, 15-17, 18-29) (12.25 X 7.5 BRAKES)	--
	102364	SUSPENSION,ADJ RLU-228-5.5 (INCLUDES ITEMS 1-9, 15-17, 18-29) (16.5 X 7 BRAKES)	--
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 (SERVICE KIT INCLUDES ITEMS 5-9)	1
5	111008	NUT LOCK 1-1/8-7 NEWAY (PART OF ITEM 4, INCLUDES 1 EACH)	6
6	111010	WASHER FLAT NEWAY 90036177 (PART OF ITEM 4, INCLUDES 2 EACH)	12
7	129005	ALIGN BLOCK 90508019 (PART OF ITEM 4, INCLUDES 1 EACH)	2
8	129006	ALIGN BLOCK NON-WELD 90008238 (PART OF ITEM 4, INCLUDES 1 EACH)	2
9	900-08-139	BUSHING NEWAY AR-45 SUSPENSIO (PART OF 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	111016	AIR SPRING NEWAY 90557159 (16.5 X 7 BRAKES)	2
15	905-57-129	SPRING AIR BAG AR-45 (12.25 X 7.5 BRAKES)	2
16	111017	SHOCK NEWAY 90044642 (16.5 X 7 BRAKES)	2
16	900 45 040	SHOCK ABSORBER AR93 (12.25 X 7.5 BRAKES)	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	4
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



NOT SHOWN:

- 4 - SUSP FASTENER KIT (ITEMS 5-13)
- 6 - AIR SPRING HARDWARE KIT (ITEMS 7-10)
- 13 - PIVOT HDWARE W/BUSHING (ITEMS 16-22)
- 14 - PIVOT HDWARE (ITEMS 16-21)
- 15 - PIVOT HDWARE (ITEMS 16-19)

VIEW OF DISC BRAKE ASSEMBLY (OPTION) CLAMP LOCATIONS (FOR BREAKDOWN SEE BELOW)

(LH) STREETSIDE BEAM
BREAKDOWN DISPLAYED

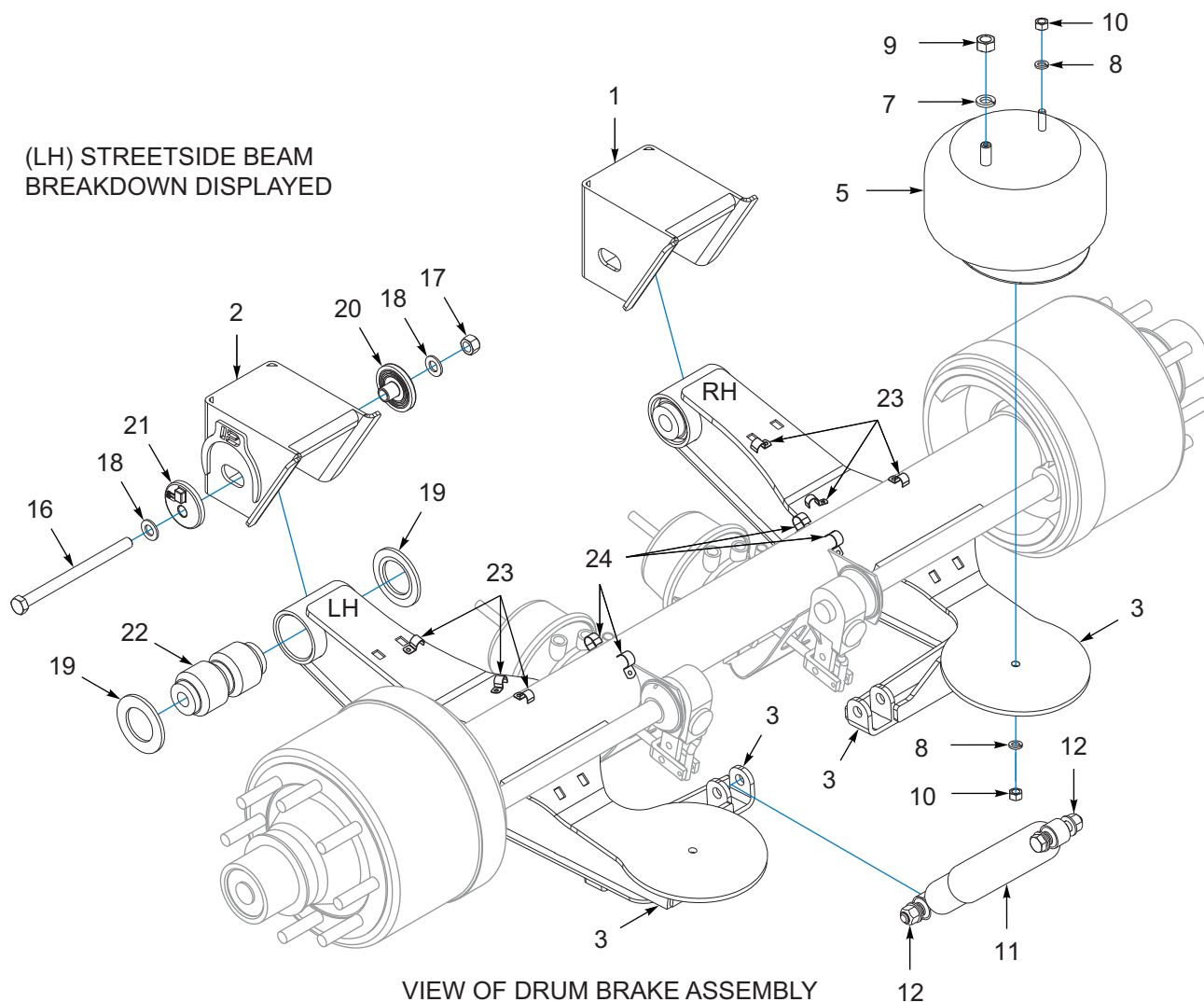


Figure 1-46: Suspension Hanger, 12.25, LSS- 25K-3.5 RLU

Suspension Hanger, 12.25, LSS-25K-3.5 RLU

ITEM	PART NUMBER	DESCRIPTION	QTY
	-----	AXLE WELDMENT 2512 SPRING (DRUM BRAKE STANDARD) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE - SEE PAGE 1-1)	--
	-----	AXLE WELDMENT 2512 DISC (DISC BRAKE OPTION) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE - SEE PAGE 1-1)	--
1	218068	FRAME BRKT RH LSS-25K SUSP	1
2	218070	FRAME BRKT LH LSS-25K SUSP	1
3	218075	SUSPENSION BEAMS LSS-25K (INCLUDES RH AND LH BEAMS & LOWER SHOCK MOUNTS)	1
4	218079	SUSP FASTNER KIT 25K-3_5RLU (INCLUDES ITEMS 5-13)	1
5	225962	AIR SPRING F/S W01-358-9307 (PART OF ITEM 4)	2
6	225963	HARDWARE KIT AIR SPRING (PART OF ITEM 4)	2
7	-----	LOCK WASHER 3/4" (PART OF ITEM 6)	1
8	-----	LOCK WASHER 1/2" (PART OF ITEM 6)	2
9	-----	NUT 3/4-16UNF (PART OF ITEM 6)	1
10	-----	NUT 3/4-16UNF (PART OF ITEM 6)	2
11	225955	SHOCK ABSORBER M85323 (PART OF ITEMS 4) (SHOCK STRAP - SEE PAGE 1-82)	2
12	225956	HARDWARE KIT M85323 SHOCK (PART OF ITEM 4)	2
13	225970	PIVOT HARDWARE KIT W/BUSHING (PART OF ITEM 4) (INCLUDES ITEMS 16-22)	2
14	225969	PIVOT HARDWARE KIT LSS-25K (INCLUDES ITEMS 16-21)	2
15	231928	PIVOT HARDWARE KIT-7/8" EC CLR (INCLUDES ITEMS 16-19)	2
16	231923	SCREW, HEX 7/8-14UNF-2AX9 GR8 (PART OF ITEMS 13, 14, 15)	1
17	231924	NUT, 7/8-14UNF-2B CLASS C LOCK (PART OF ITEMS 13, 14, 15)	1
18	231925	WASHER, 7/8 ID (PART OF ITEMS 13, 14, 15)	1
19	225958	BEAM SPACER LSS-25K (PART OF ITEMS 13, 14, 15)	2
20	231926	PLAIN PIVOT CLAMP (PART OF ITEMS 13, 14)	1
21	231927	ECCENTRIC PIVOT CLAMP (PART OF ITEMS 13, 14)	1
22	225960	PIVOT BUSHING SHORT LSS-25K (PART OF ITEMS 13)	1
23	3-181-010034-1	CLAMP CONDUIT STEEL 1/2 (DISC BRAKE AXLES, REQ 5 EACH) (DRUM BRAKE AXLES, REQ 6 EACH)	--
24	3-181-010034-2	CLAMP CONDUIT STEEL 3/4 (DRUM BRAKE)	4

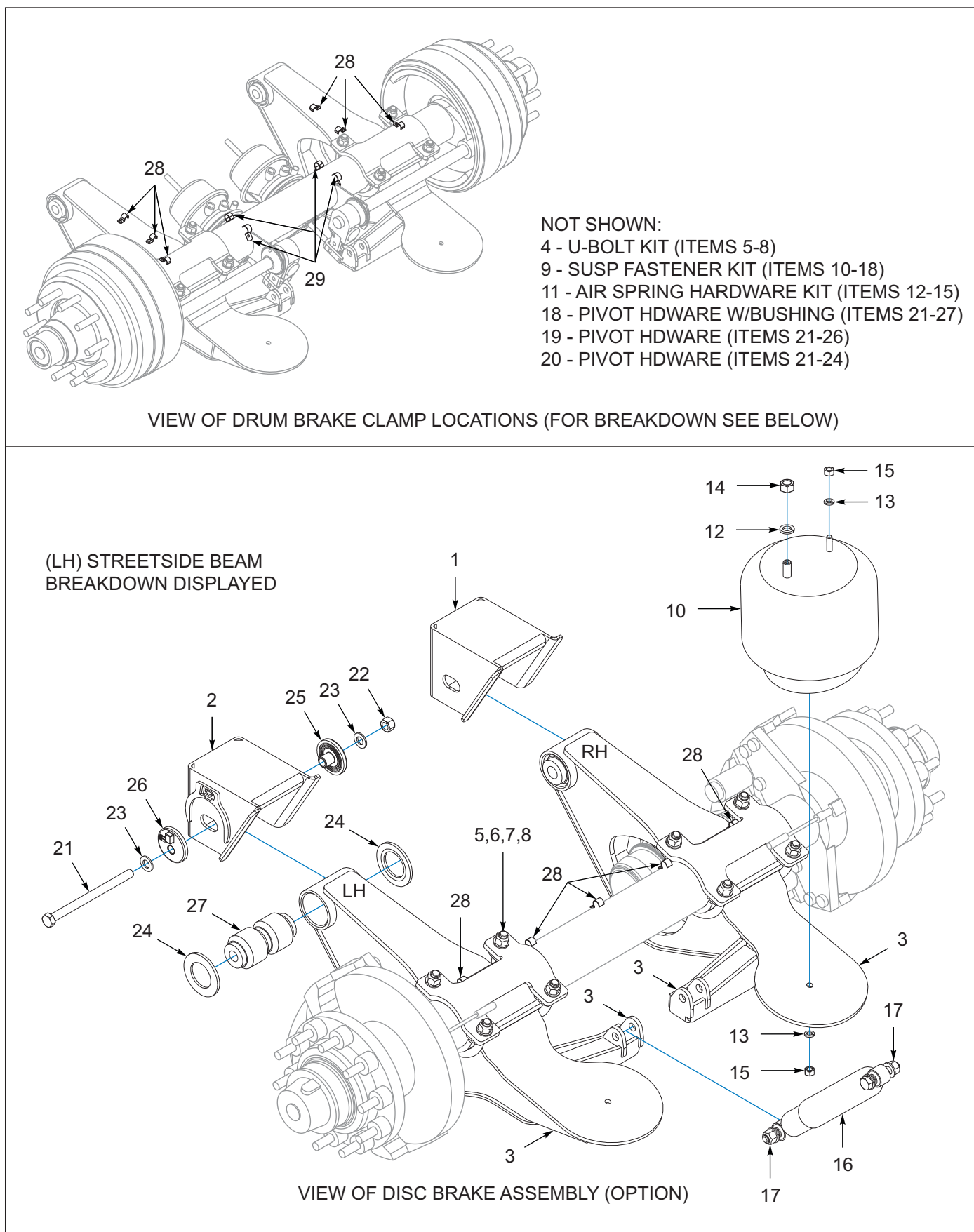


Figure 1-47: Suspension Hanger, 16.5, LSS- 25K-5.5 RLU

Suspension Hanger, 16.5, LSS-25K-5.5 RLU

ITEM	PART NUMBER	DESCRIPTION	QTY
1	218068	FRAME BRKT RH LSS-25K SUSP	1
2	218070	FRAME BRKT LH LSS-25K SUSP	1
3	226048	SUSPENSION BEAMS 25K-05_5RLU (INCLUDES RH AND LH BEAMS & ITEM 4)	1
4	238565	U-BOLT KIT, LSS-25K-xxRLU/RLY (SET OF 2) (INCLUDES ITEMS 5-8) (PART OF ITEM 3)	1
5	-----	WASHER, 3/4 ID (PART OF ITEM 4)	8
6	-----	LOCK NUT, 3/4-16UNF-2B (PART OF ITEM 4)	8
7	-----	U-BOLT CLAMP WELDMENT (PART OF ITEM 4)	4
8	-----	U-BOLT, 3/4-16UNF GR8 (PART OF ITEM 4)	4
9	226049	SUSP FASTNER KIT 25K-05_5RLU (INCLUDES ITEMS 10-18)	1
10	235294	AIR SPRING DEXTER 5.5RLU (PART OF ITEM 9)	2
11	225963	HARDWARE KIT AIR SPRING (PART OF ITEM 9)	2
12	-----	LOCK WASHER 3/4" (PART OF ITEM 11)	1
13	-----	LOCK WASHER 1/2" (PART OF ITEM 11)	2
14	-----	NUT 3/4-16UNF (PART OF ITEM 11)	1
15	-----	NUT 3/4-16UNF (PART OF ITEM 11)	2
16	225955	SHOCK ABSORBER M85323 (PART OF ITEMS 9) (SHOCK STRAP - SEE PAGE 1-83)	2
17	225956	HARDWARE KIT M85323 SHOCK (PART OF ITEM 9)	2
18	225970	PIVOT HARDWARE KIT W/BUSHING (PART OF ITEM 9) (INCLUDES ITEMS 21-27)	2
19	225969	PIVOT HARDWARE KIT LSS-25K (INCLUDES ITEMS 21-26)	2
20	231928	PIVOT HARDWARE KIT-7/8" EC CLR (INCLUDES ITEMS 21-24)	2
21	231923	SCREW, HEX 7/8-14UNF-2AX9 GR8 (PART OF ITEMS 18, 19, 20)	1
22	231924	NUT, 7/8-14UNF-2B CLASS C LOCK (PART OF ITEMS 18, 19, 20)	1
23	231925	WASHER, 7/8 ID (PART OF ITEMS 18, 19, 20)	1
24	225958	BEAM SPACER LSS-25K (PART OF ITEMS 18, 19, 20)	2
25	231926	PLAIN PIVOT CLAMP (PART OF ITEMS 18, 19)	1
26	231927	ECCENTRIC PIVOT CLAMP (PART OF ITEMS 18, 19)	1
27	225960	PIVOT BUSHING SHORT LSS-25K (PART OF ITEM 18)	1
28	3-181-010034-1	CLAMP CONDUIT STEEL 1/2 (DISC BRAKE AXLES, REQ 5 EACH) (DRUM BRAKE AXLES, REQ 6 EACH)	--
29	3-181-010034-2	CLAMP CONDUIT STEEL 3/4 (DRUM BRAKE)	4

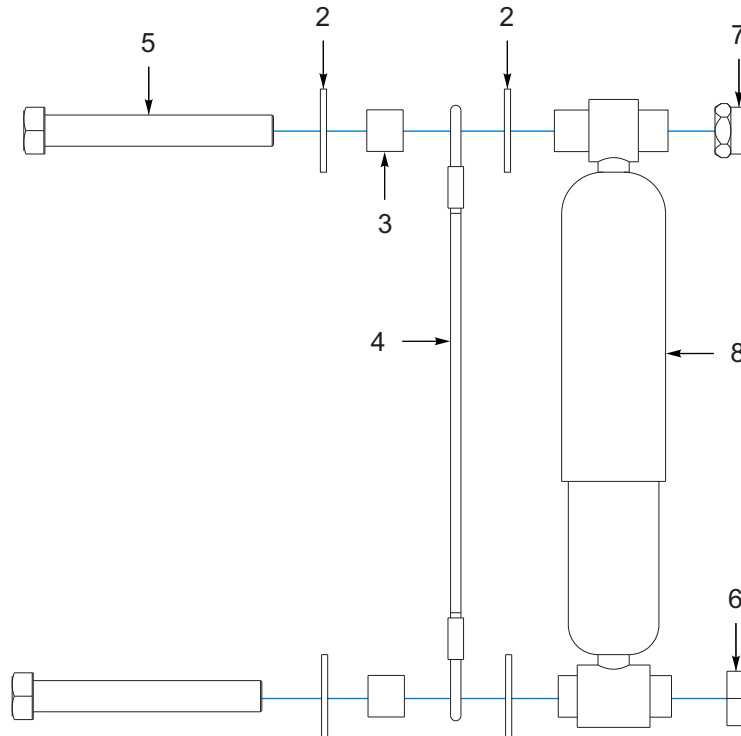


Figure 1-48: Shock Strap, Limit, RLU 228-3.5 (OPTION)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	141708	WIRE ROPE STRAPKIT RLU228-3.5 (INCLUDES 2 KITS, ITEM 1)	--
	179103	WR STRAP KIT 2AX RLU228-3.5 (INCLUDES 4 KITS, ITEM 1)	--
	141709	STRAP KIT INSL 3AX RLU228-3.5 (INCLUDE 6 KITS, ITEM 1)	--
1	-----	SHOCK STRAP LIMIT RLU228-3.5 (1 KIT INCLUDES ITEMS 2-5)	--
2	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	4
3	170120	TUBE, RD 1 ODX .782 ID X 11/16	2
4	179107	WIRE ROPE STRAP, RLU 228-3.5	1
5	W908406-4	SCREW 3/4-10X4-1/2 HEX HD CAP	2
6	934-00-367	NUT SQ 3/4-10 (NOT INCLUDED)	1
7	934-00-492	LOCK NUT 3/4-10 (NOT INCLUDED)	1
8	900 45 040	SHOCK ABSORBER AR93 (NOT INCLUDED) (FOR RLU 228-3.5 SUSPENSION)	1

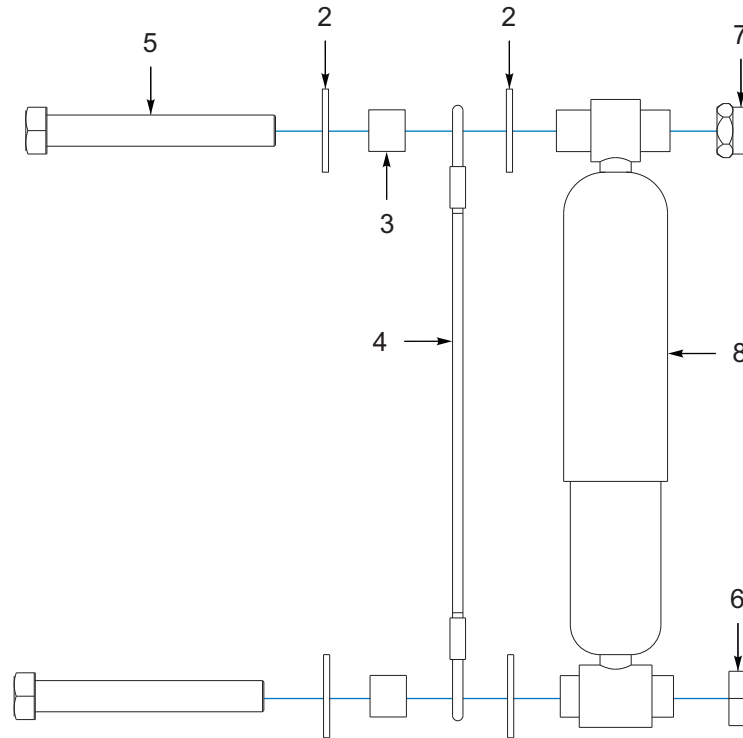


Figure 1-49: Shock Strap, Limit, RLU 228-5.5 (OPTION)

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

ITEM	PART NO.	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 (NOT INCLUDED)	1
7	934-00-492	LOCK NUT 3/4-10 (NOT INCLUDED)	1
8	111017	SHOCK NEWAY 90044642 (NOT INCLUDED) (FOR RLU 228-5.5 SUSPENSION)	1

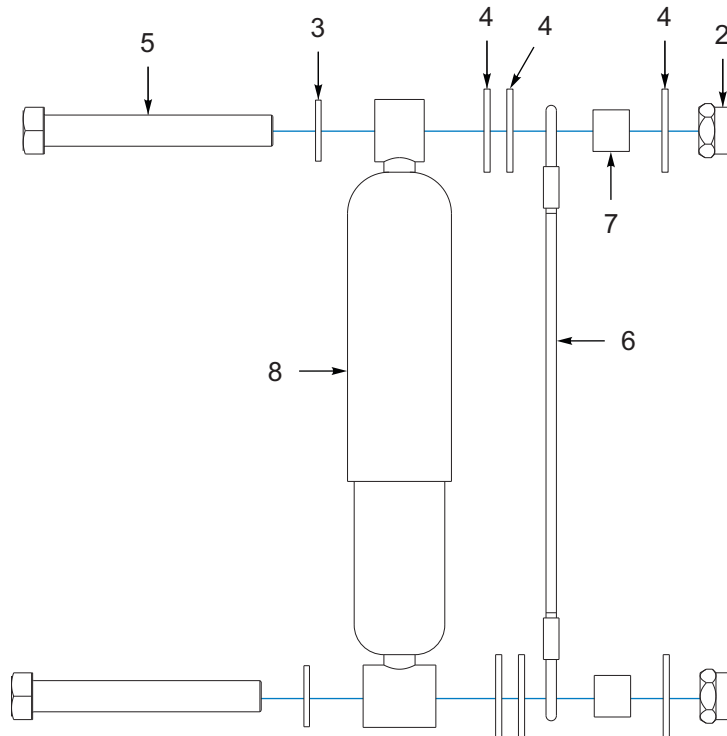


Figure 1-50: Shock Strap, Limit, LSS-25K-3.5 (OPTION)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	228953	WR STRAP KIT 1 AX LSS-25K-3.5 (INCLUDES 2 KITS, ITEM 1)	--
	223231	4 SHOCK STRAP KITS FOR 2 AXLES (INCLUDES 4 KITS, ITEM 1)	--
	223232	6 SHOCK STRAP KITS FOR 3 AXLES (INCLUDES 6 KITS, ITEM 1)	--
1	223230	STRAP SHOCK LIMITLSS-25K-3.5 (1 KIT INCLUDES ITEMS 2-7)	--
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2
3	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	2
4	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	6
5	139201	SCREW,HX CP 3/4-10UNCX5.50GR8	2
6	228951	WIRE ROPE STRAP LSS-25K-3.5	1
7	228952	TUBE RD 1 OD X .782 ID X 7/8	2
8	225955	SHOCK ABSORBER M85323 (NOT INCLUDED) (FOR LSS-25K-3.5RLU)	1

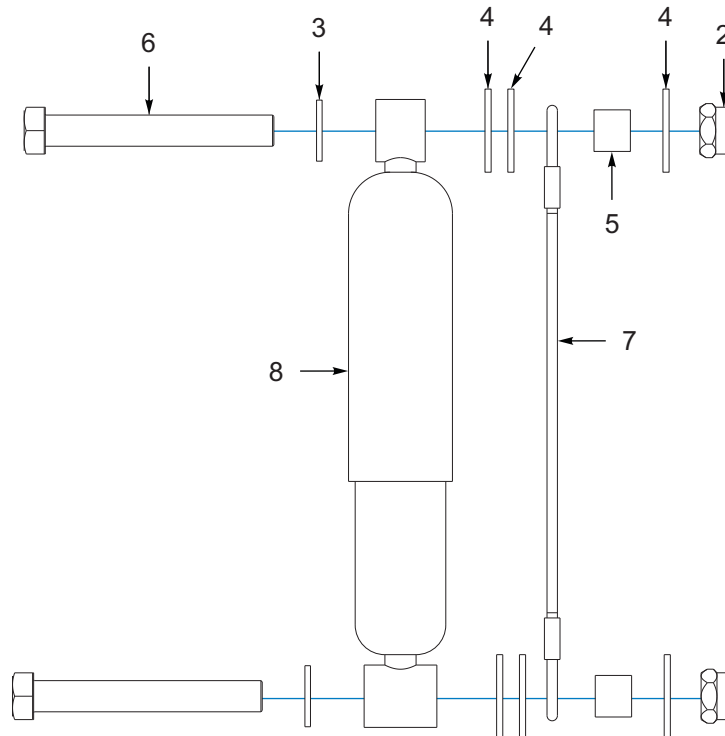


Figure 1-51: Shock Strap, Limit, LSS-25K-5.5 (OPTION)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	236487	WR STRAP KIT 1AX LSS-25K-5.5 (INCLUDES 2 KITS, ITEM 1)	--
	236488	4 SHOCK STRAP KITS FOR 2 AXLES (INCLUDES 4 KITS, ITEM 1)	--
	236489	6 SHOCK STRAP KITS FOR 3 AXLES (INCLUDES 6 KITS, ITEM 1)	--
1	236486	STRAP SHOCK LIMITLSS-25K-5.5 (1 KIT INCLUDES ITEMS 2-7)	--
2	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2
3	1-861-010032-20	WASHER, FLAT,3/4 N ZP/CD	2
4	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	6
5	228952	TUBE RD 1 OD X .782 ID X 7/8 (BEFORE 03/17/2022)	2
5	170120	TUBE, RD 1 ODX .782 ID X 11/16 (AFTER 03/17/2022)	2
6	139201	SCREW,HX CP 3/4-10UNCX5.50GR8 (BEFORE 02/08/2022)	2
6	172883	SCREW HX CP,3/4-10X5 GR8 ZP (AFTER 02/08/2022)	2
7	236485	WIRE ROPE STRAP LSS-25K-5.5	1
8	225955	SHOCK ABSORBER M85323 (NOT INCLUDED) (FOR LSS-25K-5.5 RLU)	1

Axle & Brake Assemblies

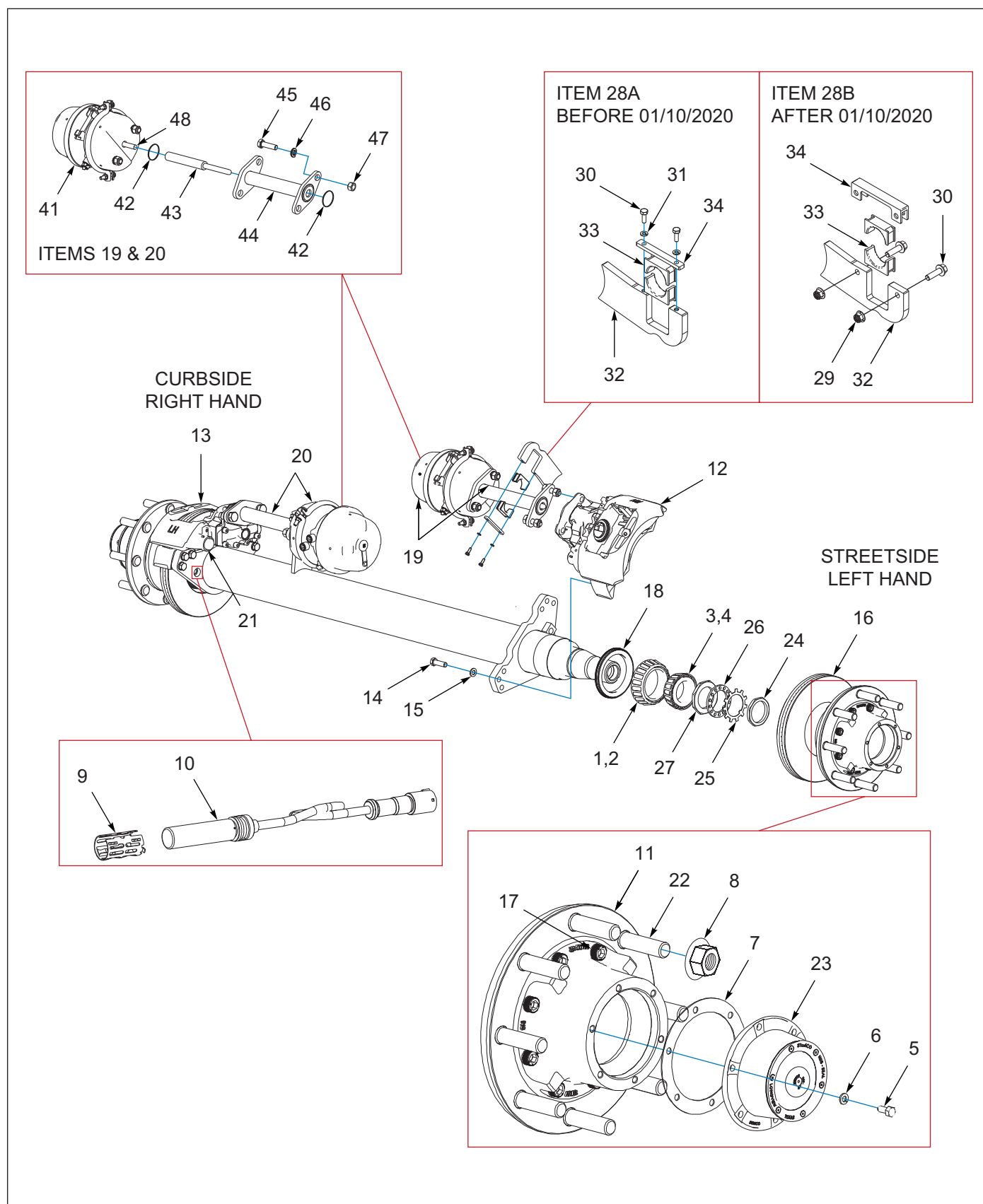
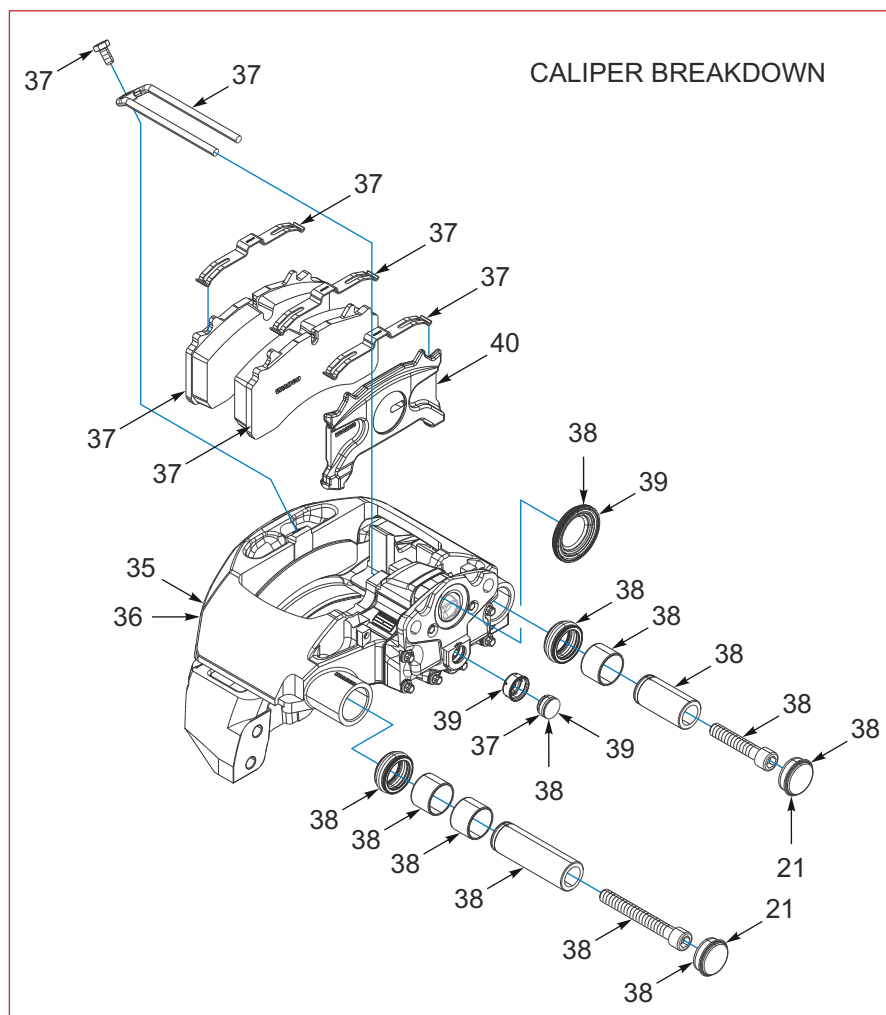


Figure 1-52: Axle 12.25 Disc Brakes & Hub Assembly, Dexter (OPTION) (1 of 2)



ITEM# 49



ITEM# 50



Figure 1-53: Axle 12.25 Disc Brakes & Hub Assembly, Dexter (OPTION) (2 of 2)

Axle 12.25 Disc Brakes & Hub Assembly, Dexter (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	220658	AXLE 12.25 DSC 77 25K TIS (14-1/8")	- -
1	HM218210	BEARING CUP, INNER-DEXTERD225K(PART OF ITEM 11)	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP (PART OF ITEM 11)	2
4	HM212049	OUTER BEARING CONE	2
5	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
6	1-861-010034-10	WASHER, LKG 5/16	12
7	153402	GASKET HUB (3067) (PART OF ITEM 23)	2
8	179955	NUT, FLANGE MM22X1.5 (1.50HEX) (179933, 153408)	16
9	153409	SPRING CLIP ABS	2
10	220673	SENSOR ABS STRAIGHT IM CABLE	2
11	223993	HUB DISC PAN17 (NO ROTOR) (INCLUDES ITEMS 1, 3)	2
12	223994	CALIPER DISC PAN17 LH (INCLUDES ITEMS 35, 37-40)	1
13	223997	CALIPER DISC PAN17 RH (INCLUDES ITEMS 36-40)	1
14	223995	BOLT M14-1.5X45MM GR 10.9	12
15	223996	WASHER 14MM SPLIT LOCK	12
16	223998	ROTOR DISC PAN 17.5 (NO HUB)	2
17	224002	BOLT SCHS M14-2X60MM GR 12.9	16
18	224003	SEAL SCOTSEAL F22	2
19	240587	EXT SHAFT ASSY LONG LH (14-1/8") (INCLUDES ITEMS 41-47)	1
20	240588	EXT SHAFT ASSY LONG RH (14-1/8") (INCLUDES ITEMS 41-47)	1
21	230657	SOFT PLUG TIN CALIPER	4
22	232823	STUD M22X1.5X3.97 DXT DSC BK	16
23	4009	BOLT ON HUB CAP W/PLUG (OIL CAP INCLUDES VENT PLUG AND ITEM 7)	2
24	006-115-00	NUT OUTER, SPINDLE, DEXTER (153365, 103102-001)	2
25	105106	STAR L/W (005-099-00)	2
26	105107	LOCK WASHER (005-098-00)	2
27	103103-002	NUT INNER SPINDLE DEXTER (006-114-00)	2
28	225978	SUPPORT BLOCK ASSY (BEFORE 01/10/2020 - AFTER OBSOLETE) (28A INCLUDES ITEMS 30-34)	2
28	231958	SUPPORT BLOCK EXT SHAFT ASSY (AFTER 01/10/2020) (28B INCLUDES ITEMS 29-30, 32-34)	2
29	1-510-010001	NUT, FLANGE 3/8-16UNC GR5 ZNK (AFTER 01/10/2020) (PART OF ITEMS 28B)	4
30	1-654-010051-05	SCREW, HEX CAP 3/8-16UNCX1 GR5 (BEFORE 01/10/2020) (PART OF ITEM 28A)	4
30	1-654-010051-06	SCREW, HEX CAP 3/8-16UNCX1-1/4 (AFTER 01/10/2020) (PART OF ITEM 28B)	4
31	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8 (BEFORE 01/10/2020) (PART OF ITEM 28A)	4
32	-----	SUPPORT BLOCK (BEFORE 01/10/2020) (PART OF ITEM 28A)	2
32	223999	SUPPORT BLOCK (AFTER 01/10/2020) (PART OF ITEM 28B)	2
33	-----	SPLIT BUSHING (BEFORE 01/10/2020) (PART OF ITEM 28A) (2 PER SUPPORT BLOCK)	4
33	224000	SPLIT BUSHING (AFTER 01/10/2020) (PART OF ITEM 28B) (2 PER SUPPORT BLOCK)	4
34	-----	SUPPORT CAP (BEFORE 01/10/2020) (PART OF ITEM 28A)	2
34	224001	SUPPORT CAP (AFTER 01/10/2020) (PART OF ITEM 28B)	2
35	236534	CALIPER DISC PAN17 LH NO PADS (PART OF ITEM 12)	1
36	236535	CALIPER DISC PAN17 RH NO PADS (PART OF ITEM 13)	1

Axle 12.25 Disc Brakes & Hub Assembly, Dexter (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
37	224005	PAD KIT PAN17 DISC BRAKE 1 AX (1 KIT PER AXLE) (PART OF ITEMS 12, 13)	1
38	236536	GUIDE BOLT & SEAL KIT PAN 17 (PER CALIPER) (PART OF ITEMS 12, 13)	1
39	236537	SEAL KIT CLAMPING UNIT (PER CALIPER) (PART OF ITEM 12)	1
40	236538	PRESSURE PLT DSCBKCALIPR PAN17 (PER CALIPER) (PART OF ITEMS 12, 13)	1
41	238558	AIR CHAMBER PAN 17 DSC BK (PART OF ITEMS 19 & 20)	2
42	-----	O-RING 1-7/8"IDX2-1/8"ODX.139" (238559) (PART OF ITEMS 19 & 20)	2
43	-----	SHAFT CHAMBR EXTENSION 14-1/8" (242701) (PART OF ITEMS 19 & 20)	2
44	-----	EXTENSION TUBE WLMT 14-1/8" (242700) (PART OF ITEMS 19 & 20)	2
45	-----	SCREW 5/8-12 X 2" UNF (238563) (PART OF ITEMS 19 & 20)	2
46	-----	WASHER,LKG,HLCL SPR,5/8 (1-861-010034-15) (PART OF ITEMS 19 & 20)	2
47	-----	NUT JAM 5/8-18 UNF GR8 (238564) (PART OF ITEMS 19 & 20)	2
48	#242 LOCKTITE	LOCKTITE 242 BLUE REMOVABLE(50ML BOTTLE) (NOT SHOWN)	1
49	236504	TOOL KIT PAN 17/19/22 BASIC	1
50	225964	TOOL KIT WABCO PAN17 DISC	1

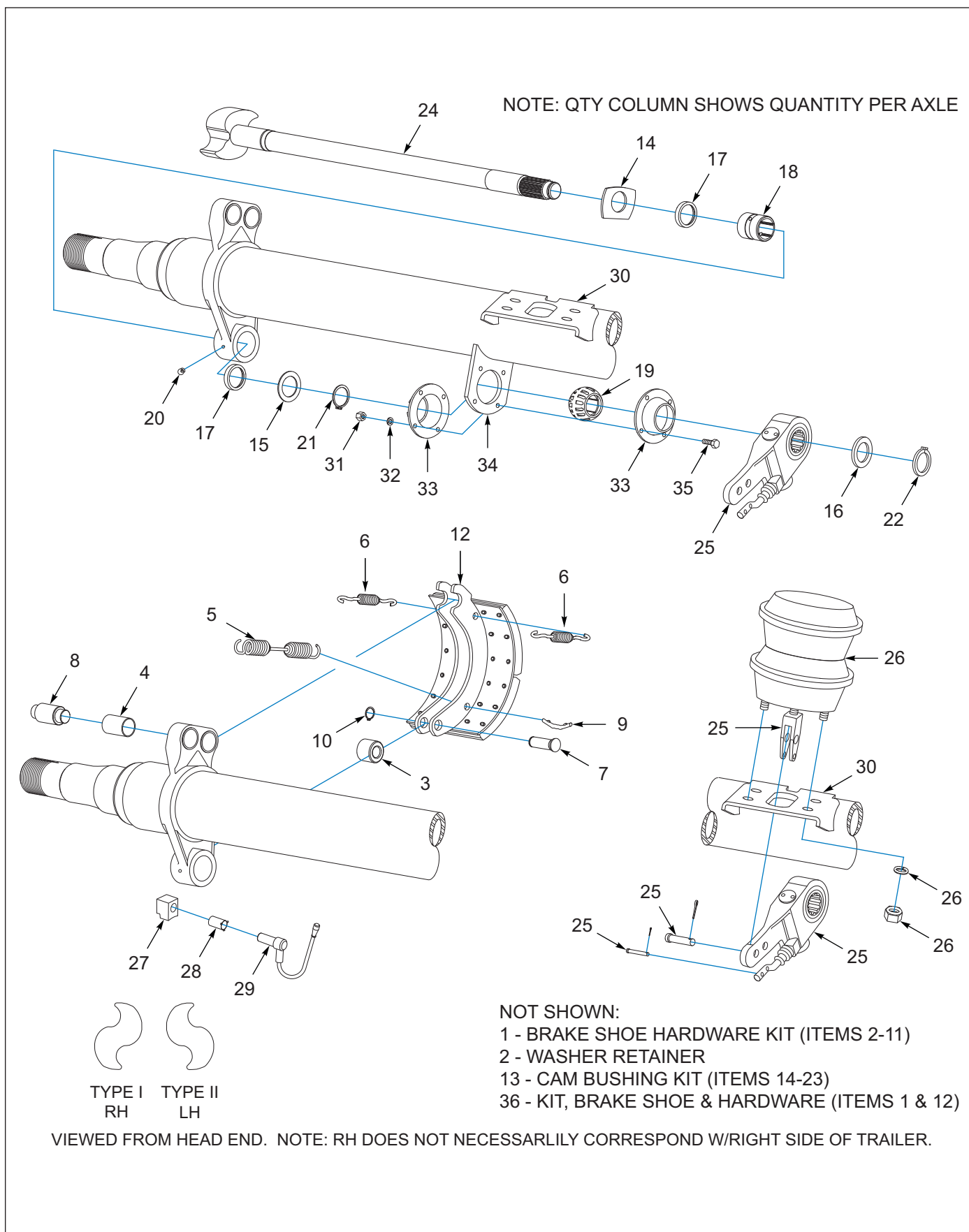


Figure 1-54: Axle 12.25 x 7.5 Drum Brakes, Dexter

Axle 12.25 x 7.5 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	212381	AXLE 77 12.25SPG 25K TIS (REPLACED 115704 & 136203 AFTER 06/16/2018)	--
1	K71-460-00	BRAKESHOE HDW KIT PQ BRKS DEX (INCLUDES ITEMS 2-11) (PART OF ITEM 36)	2
2	403149	WASHER RETAINER (NOT SHOWN) (ITEM 1 INCLUDES 2 EACH)	4
3	204108-001	ROLLER (014-057-00) (ITEM 1 INCLUDES 2 EACH)	4
4	014-068-00	BUSHING-SPIDER ANCHOR PIN DXTR (ITEM 1 INCLUDES 2 EACH)	4
5	208106	SPRING BRAKE RETRACT (ITEM 1 INCLUDES 1 EACH)	2
6	046-097-00	SPRING-BRAKE SHOE KEEPER DEXTR (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 (PART OF ITEM 36)	4
13	K71-101-00	CAM SHAFT REPAIR KIT PQ BRAKES (1 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	136991	CAM LH 28 SPLINE 23-3/8	1
24	136992	CAM RH 28 SPLINE 23-3/8	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	144979	ABS SENSOR RETAINER CLIP	2
29	101847	ABS SENSOR CABLE-.4M (1FT) (SENSOR & CABLE ASSEMBLY)	2
30	034-048-00	BRACKET AIR CHAMBER MTG	2
31	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8
32	005-079-00	LOCK WASHER, DEXTER	8
33	034-032-00	RETAINING PLATE-CAMSHAFT DEXTR (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

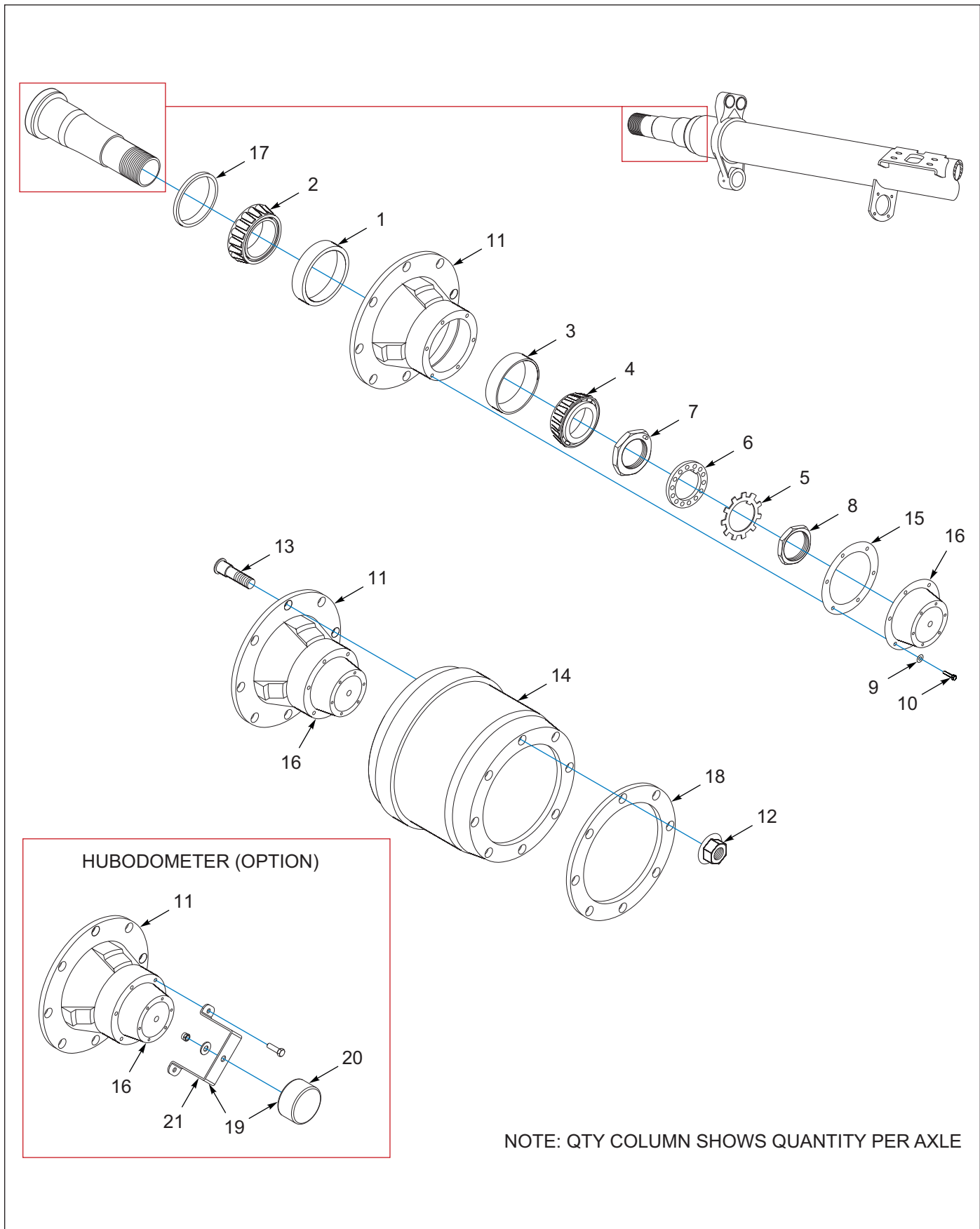


Figure 1-55: Axle 12.25 x 7.5 Drum and Hub Assembly, Dexter

Axle 12.25 X 7.5 Drum and Hub Assembly, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	212381	AXLE 77 12.25SPG 25K TIS (REPLACED 115704 & 136203 AFTER 06/16/2018)	--
1	HM218210	BEARING CUP, INNER-DEXTERD225K (ITEM 11 INCLUDES 1 EACH)	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP (ITEM 11 INCLUDES 1 EACH)	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W (005-099-00)	2
6	105107	LOCK WASHER (005-098-00)	2
7	103103-002	NUT INNER SPINDLE DEXTER (006-114-00)	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER (103102-001)	2
9	1-861-010034-10	WASHER, LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	112492	HUB 8 BOLT ABS 100 TOOTH (INCLUDES TONE RING) (INCLUDES ITEMS 1, 3, 13)	2
12	179955	NUT, FLANGE MM22X1.5 (1.50HEX) (179933, 153408)	16
13	101162	STUD - DISC PILOT HOLE WHL (2.47 STANDOUT) (BEFORE 06/16/2018)	16
13	113536	STUD RH 22MM 3.5 STANDOUT (131069) (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 (153402)	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	114619	WHEEL GUARD 8 HOLE 275MM BC (USED ONLY TO SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)	2
19	142550	HUBODOMETER INSTALL 235/17.5 (650RPM) (OPTION INCLUDES ITEMS 20, 21)	1
20	142547	HUBODOMETER 650 RPM (OPTION)	1
21	197606	BRACKET HUBODOMETER 4"H TISTIS (OPTION)	1

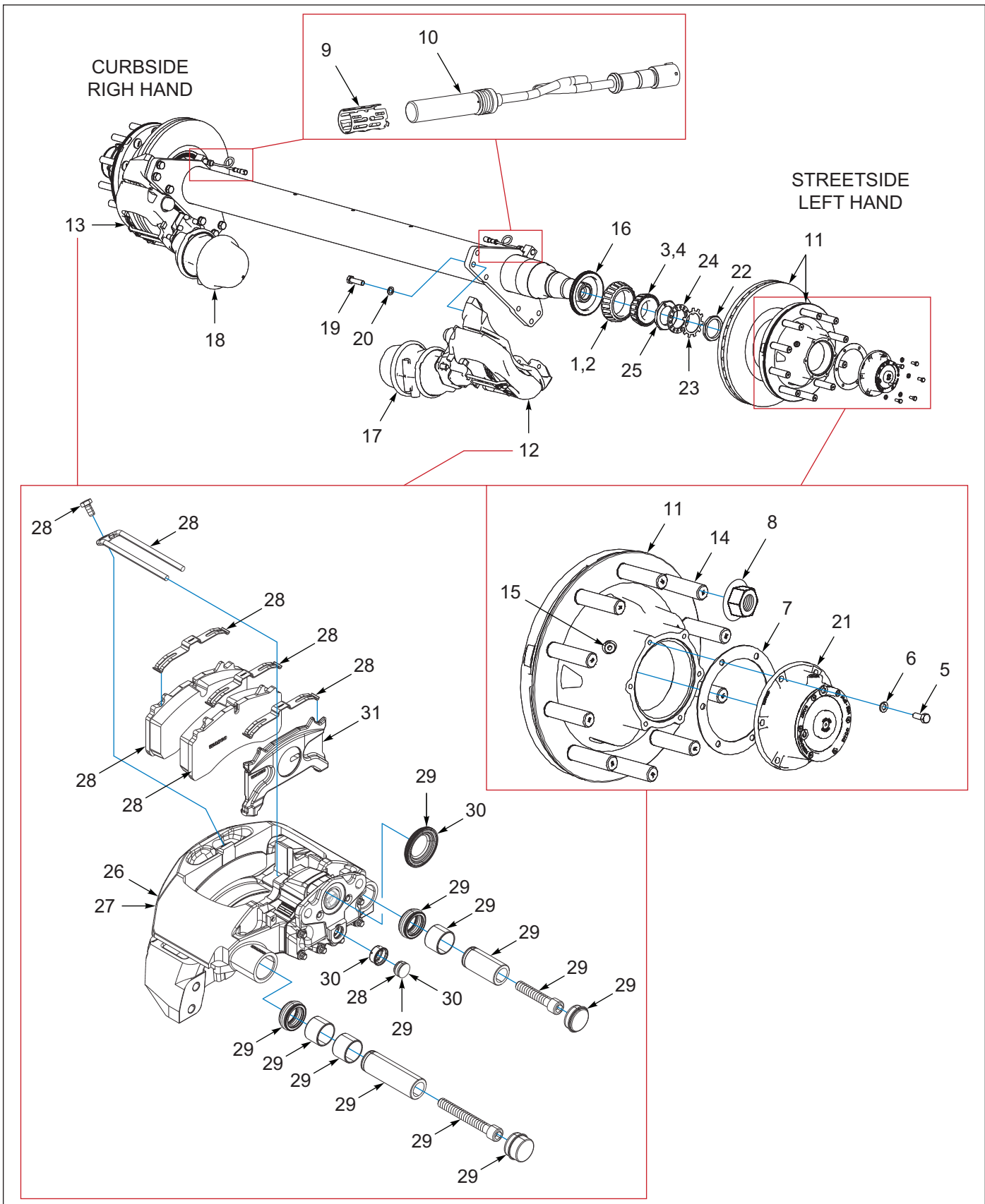


Figure 1-56: Axle 16.5 Disc Brakes & Hub Assembly, Dexter (OPTION) (1 of 2)

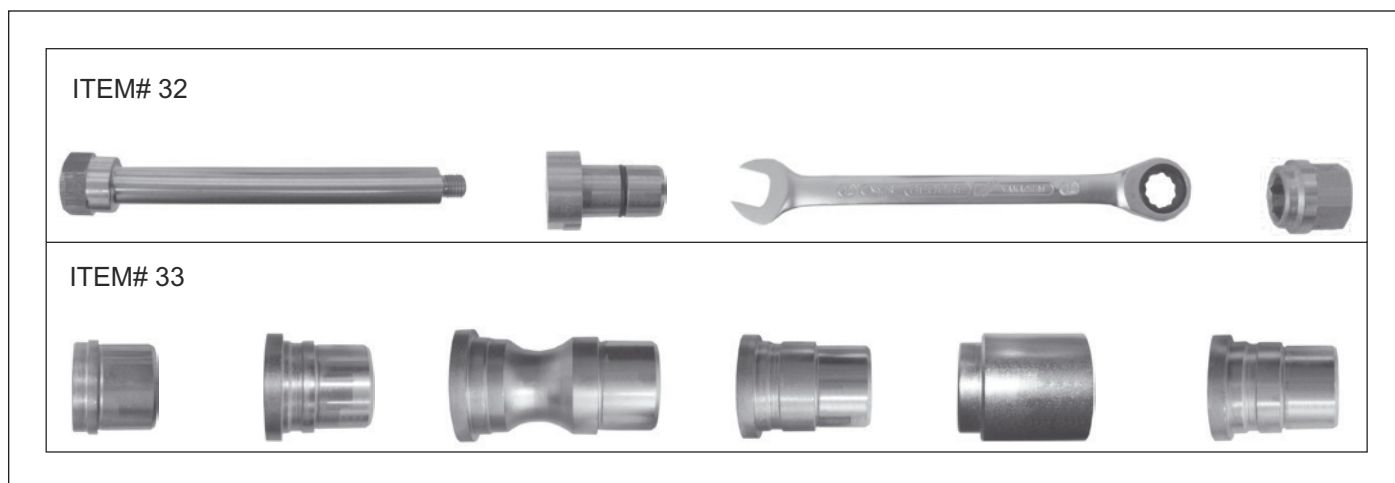


Figure 1-57: Axle 16.5 Disc Brakes & Hub Assembly, Dexter (OPTION) (2 of 2)

Axle 16.5 Disc Brakes & Hub Assembly, Dexter (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY
	228029	AXLE 75 PAN 22 DISC 25K TIS	--
1	HM218210	BEARING CUP, INNER-DEXTERD225K	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP	2
4	HM212049	OUTER BEARING CONE	2
5	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
6	1-861-010034-10	WASHER, LKG 5/16	12
7	153402	GASKET F22 (3067)	2
8	153408	NUT, FLANGE M22 X 1.5 (179955, 179933)	20
9	153409	SPRING CLIP ABS	2
10	220673	SENSOR ABS STRAIGHT IM CABLE	2
11	235222	HUB/ROTOR ASSY PAN22 DSC	2
12	236498	CALIPER PAN22 LH ADB (INCLUDES ITEMS 29, 31-34)	1
13	236499	CALIPER RAN22 RH ADB (INCLUDES 30-34)	1
14	236497	STUD M22 X 1.5 X 4.79"	20
15	224002	BOLT SCHS M14-2X60MM FR 12.9	2
16	224003	SEAL SCOTSEAL F22 (46305)	2
17	236475	BRAKE CHAMBER LH DXT 16.5 DSC (INCLUDES MOUNT NUTS)	1
18	236476	BRAKE CHAMBER RH DXT 16.5 DSC (INCLUDES MOUNT NUTS)	1
19	236500	BOLT HHCS M16-1.5X55MM GR10.9	12
20	236501	LOCK WASHER 16MM SPLIT	12
21	4009	HUB CAP VENTED (153403) (OIL CAP INCLUDES VENT PLUG AND ITEM 7)	2
22	006-115-00	SPINDLE NUT OUTER (006-115-00, 153365)	2
23	105106	STAR WASHER (153368, 005-098-00)	2
24	153366	SPINDLE WASHER (105107, 005-098-00)	2
25	103103-002	SPINDLE NUT INNER (153367, 006-114-00)	2
26	238554	CALIPER DISC PAN22 LH NO PADS	1
27	238555	CALIPER DISC PAN22 RH NO PADS	1
28	235221	PAD KIT PAN22 DSC 1AX (1 KIT PER AXLE)	1

Axle 16.5 Disc Brakes & Hub Assembly, Dexter (OPTION)

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

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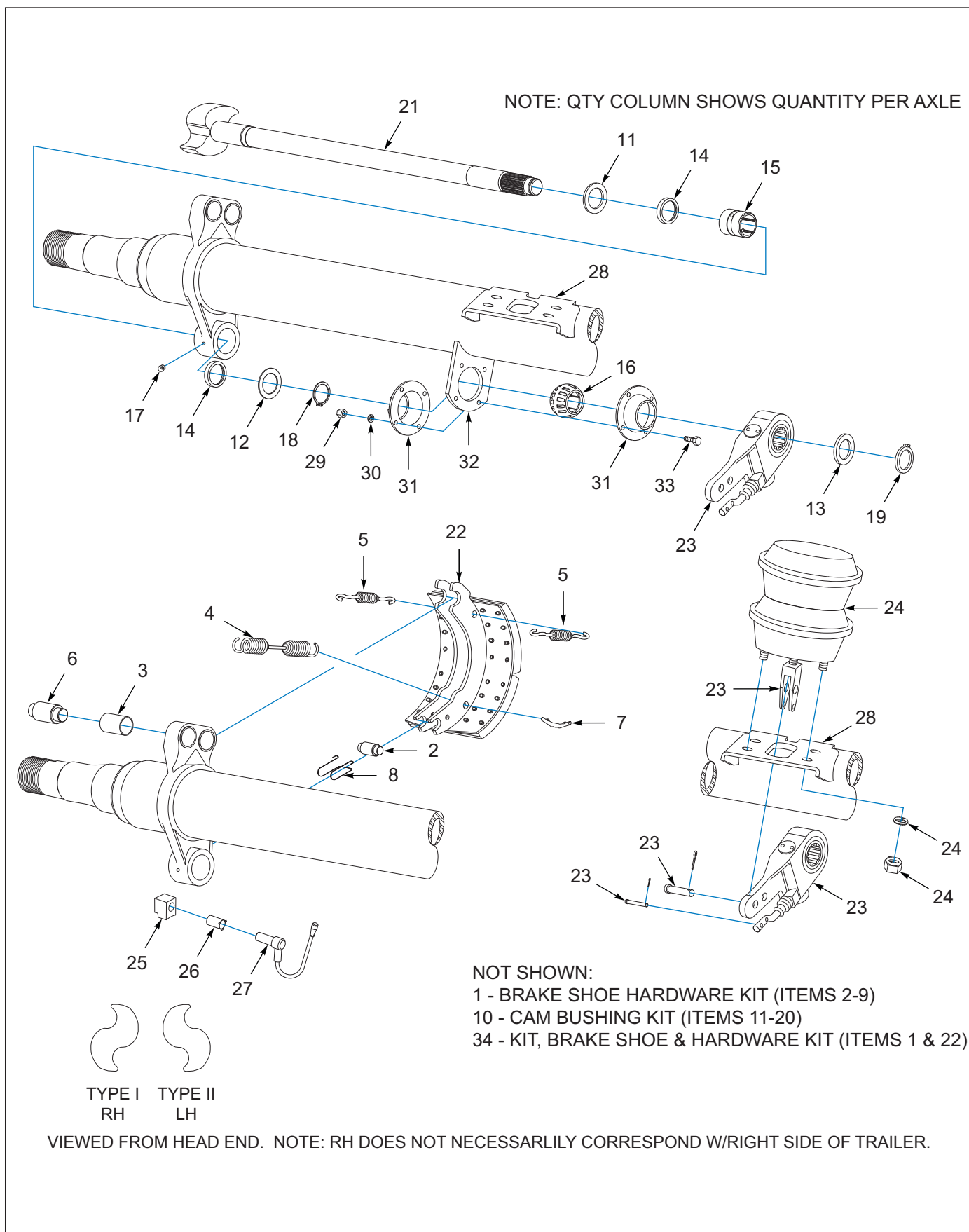


Figure 1-58: Axle 16.5 x 7 Drum Brakes, Dexter

Axle 16.5 x 7 Drum Brakes, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	212421	AXLE 75, 16.5 X 7 SPG BRK - 25K (REPLACED 115715 & 138955 AFTER 06/16/2018)	--
1	K71-136-00	BRAKE SHOE H KIT 16.5X7 DXTR (INCLUDES ITEMS 2-9) (PART OF 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	137461	CAMSHAFT, 25" LH	1
21	137485	CAMSHAFT, 25" RH	1
22	040-180-00	BRAKE SHOE & LINING DEXTER (PART OF 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
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

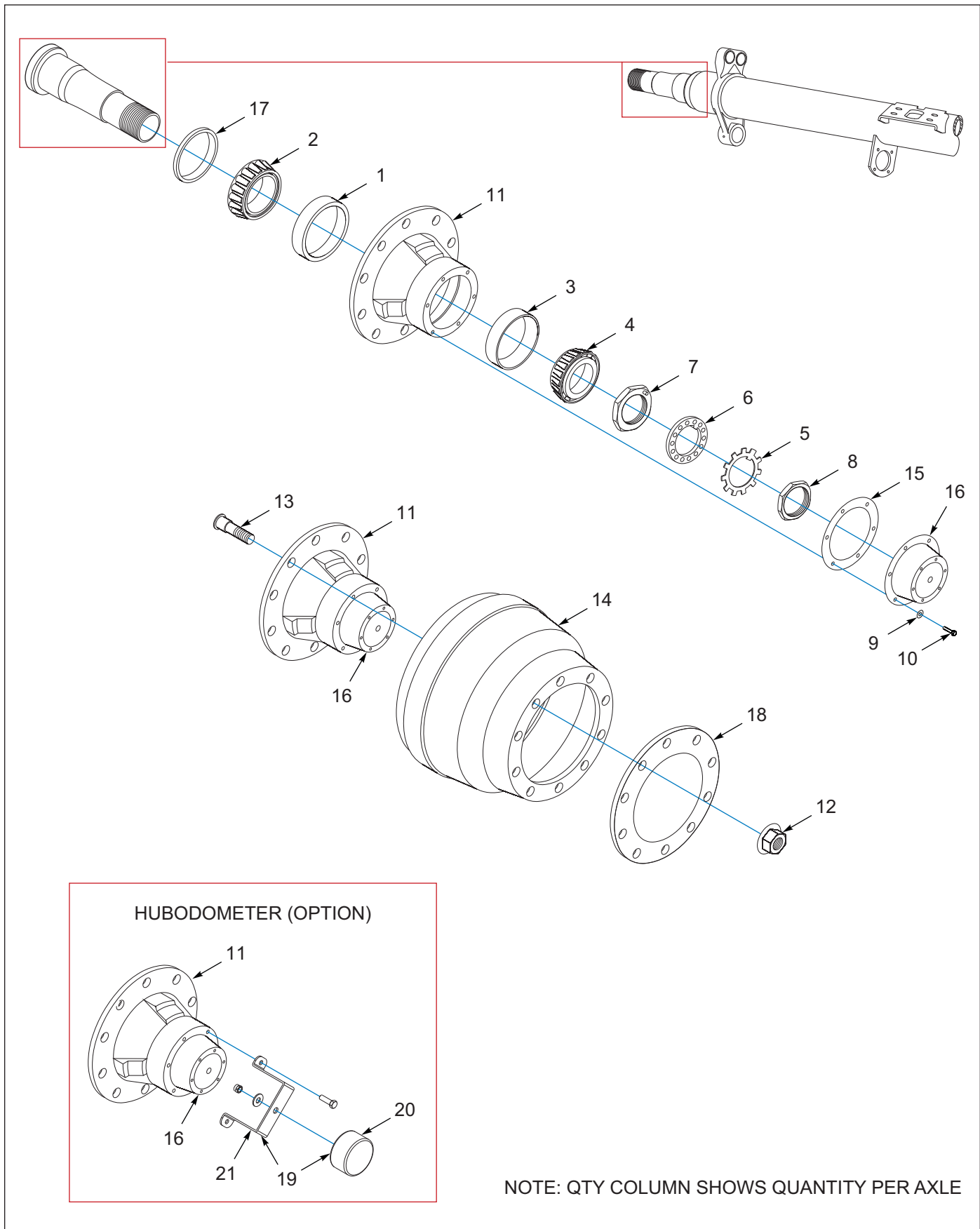


Figure 1-59: Axle 16.5 x 7 Drum and Hub Assembly, Dexter

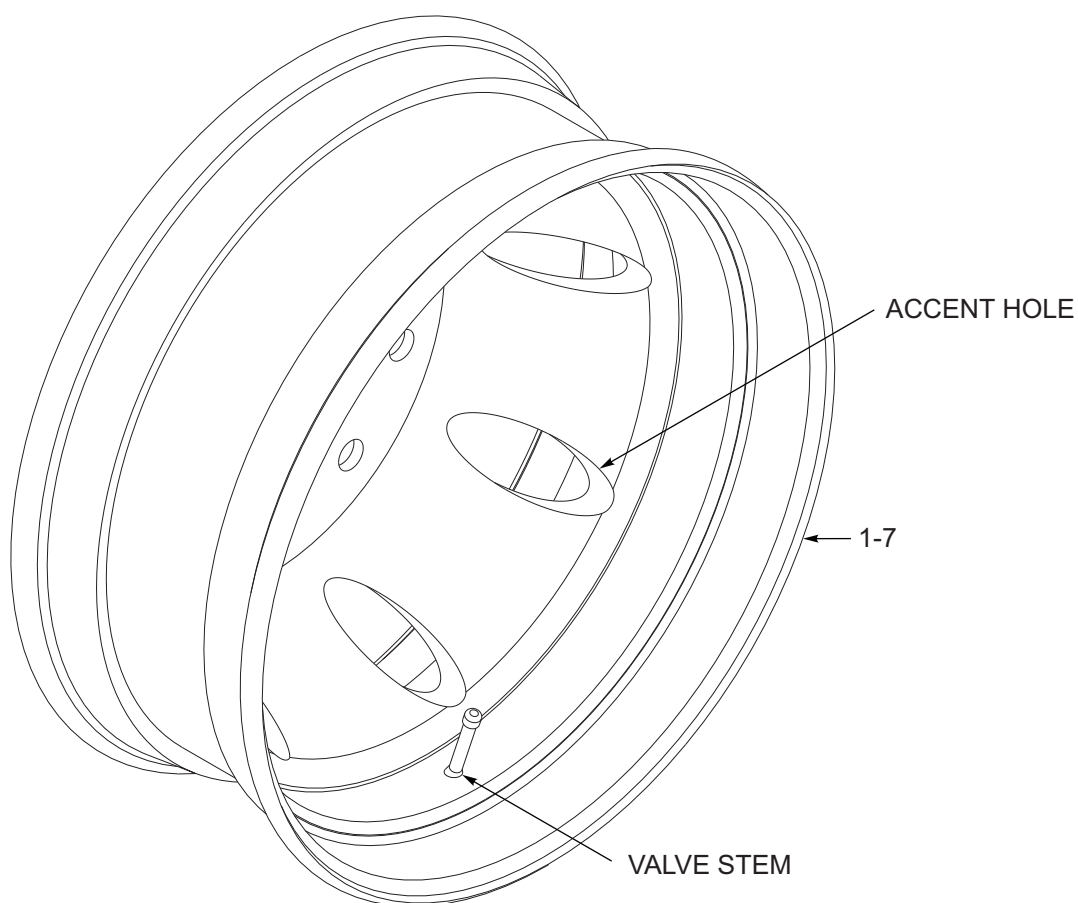
Axle 16.5 x 7 Drum and Hub Assembly, Dexter

ITEM	PART NUMBER	DESCRIPTION	QTY
	212421	AXLE 75, 16.5 X 7 SPG BRK - 25K (REPLACED 115715 & 138955 AFTER 06/16/2018)	--
1	HM218210	BEARING CUP, INNER-DEXTERD225K (PART OF ITEM 11 INCLUDES 1 EACH)	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP (PART OF ITEM 11 INCLUDES 1 EACH)	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W (005-099-00)	2
6	105107	LOCK WASHER (005-098-00)	2
7	103103-002	NUT INNER SPINDLE DEXTER (006-114-00)	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER (103102-001)	2
9	1-861-010034-10	WASHER, LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	110975	HUB FOR 103781 (100 TOOTH TONE RING) (INCLUDES ITEMS 1, 3) (STUDS & FLANGE NUTS SOLD SEPARATELY)	2
12	179955	NUT, FLANGE MM22X1.5 (1.50HEX) (179933, 153408)	20
13	101162	STUD - DISC PILOT HOLE WHL (2.47 STANDOUT) (BEFORE 06/16/2018)	20
13	113536	STUD RH 22MM 3.5 STANDOUT (131069) (3.5 STANDOUT) (AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS)	20
14	110976	DRUM FOR 103781	2
15	3067	GASKET HUB (153402)	2
16	4009	BOLT ON HUB CAP W/PLUG (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 1-60: Wheels

Wheels

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	100402	WHEEL POL ALUM PILOT 17.5X6.75 (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 STOP	WHEEL,DISC,PILOT MT 17.5X6.75 (USES TR500 VALVE STEM) (4 ACCENT HOLES, PAINTED WHITE, STEEL)	1
3	139600	WHEEL,AL DURA BRITE 255/70R (USES TR545D VALVE STEM) (10 ACCENT HOLES, POLISHED, ALUMINUM)	1
3	3-870-010106	WHEEL,AL,PILOT MT 22.5X7.5POL (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 PLT 22.5X8.25 POL CTG (USES TR545D VALVE STEM) (8 ACCENT HOLES, POLISHED COATING, ALUMINUM)	1
6	150346	WHEEL,ALUM,DURA-BRT 22.5X8.25 (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

Air Brake System

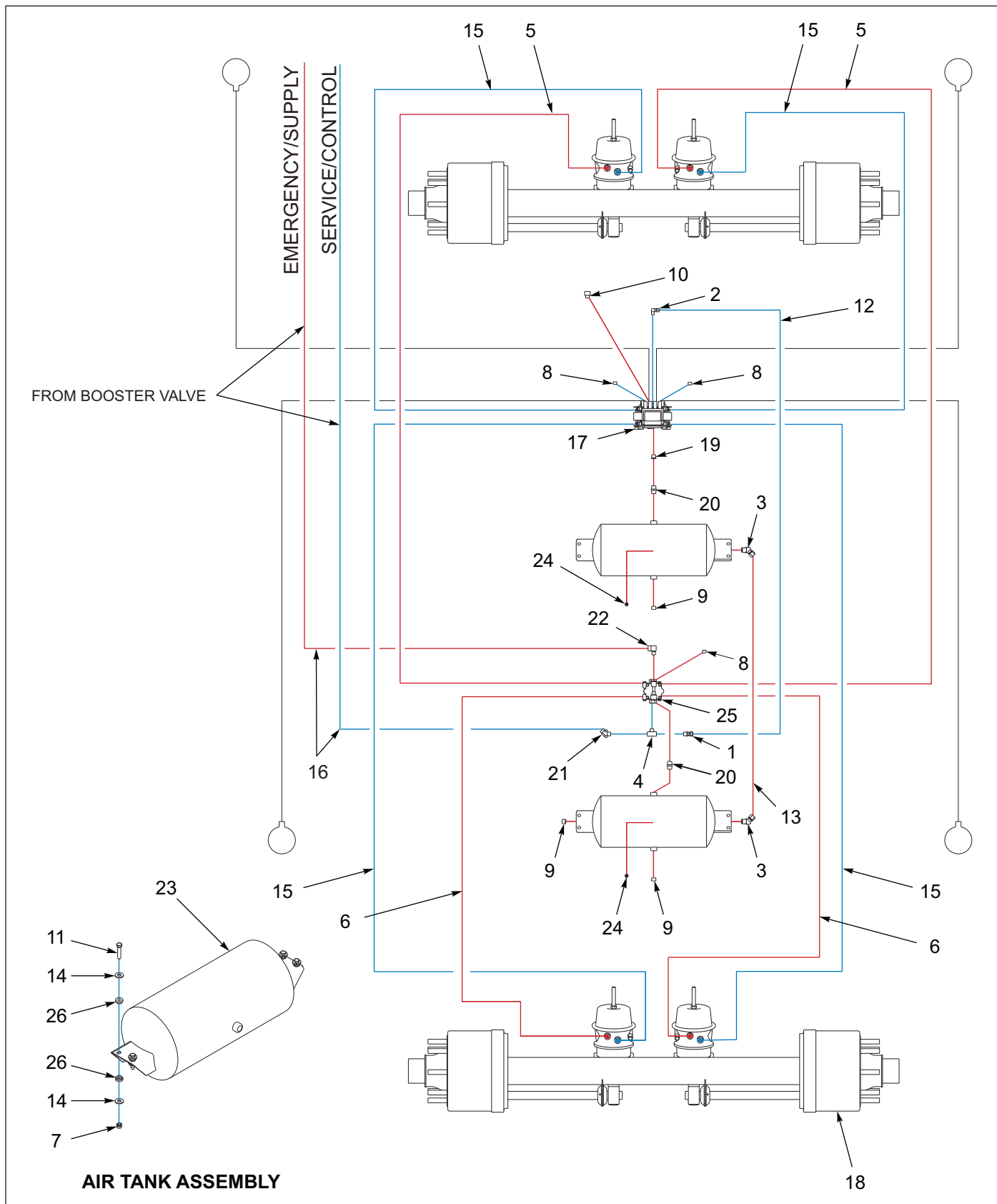


Figure 1-61: 930E-Air Brake System

930E-Air Brake System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	214499	SUSP 930E-12, 2512-77	--
	214500	SUSP 930E-12, 2516-75	--
	215051	SUSP 930E-14, 2512-77	--
	215052	SUSP 930E-14, 2516-75	--
	215053	SUSP 930E-15, 2512-77	--
	215054	SUSP 930E-15, 2516-75	--
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	1
2	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1
3	1-297-010013-16	FITTING,AIR 1/2X1/2 45 M/ELB	2
4	1-297-010017-03	FITTING,BRS PIPE M/BR TEE 3/8	1
5	1-384-010038024	HOSE AIR 3/8X24	2
6	1-384-010038038	HOSE AIR 3/8X38	2
7	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	8
8	1-560-010002-03	PLUG, PIPE, 3/8NPTF	3
9	1-560-010002-04	PLUG, PIPE, 1/2NPT	3
10	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	1
11	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G	8
12	1-833-010002	TUBING NYLON 3/8 OD	9
13	1-833-010003	TUBING NYLON 1/2 OD	10
14	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	16
15	101003	HOSE AIR 3/8X48 W/3/8 ENDS	4
16	109209	HOSE,AIR 3/8X244 W/3/8 ENDS	2
17	114584	ABS KIT WABCO 4S/2M TAB (ABS KIT - SEE PAGE 1-106) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)	1
18	115747	AXLE WLDMT 2512 SPG 7739.5	--
19	118-2659-9	BUSHING 1/2NPTX3/4NPT STL	1
20	2083-8-8S	NIPPLE 1/2NPTX1/2NPT	2
21	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	1
22	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT	1
23	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	2
24	56D4	COCK,DRAIN AIR TANK VEL, 036019	2
25	758-181	VALVE TASK 4 PORT	1
26	805-2	BUSHINGS, STEP	16

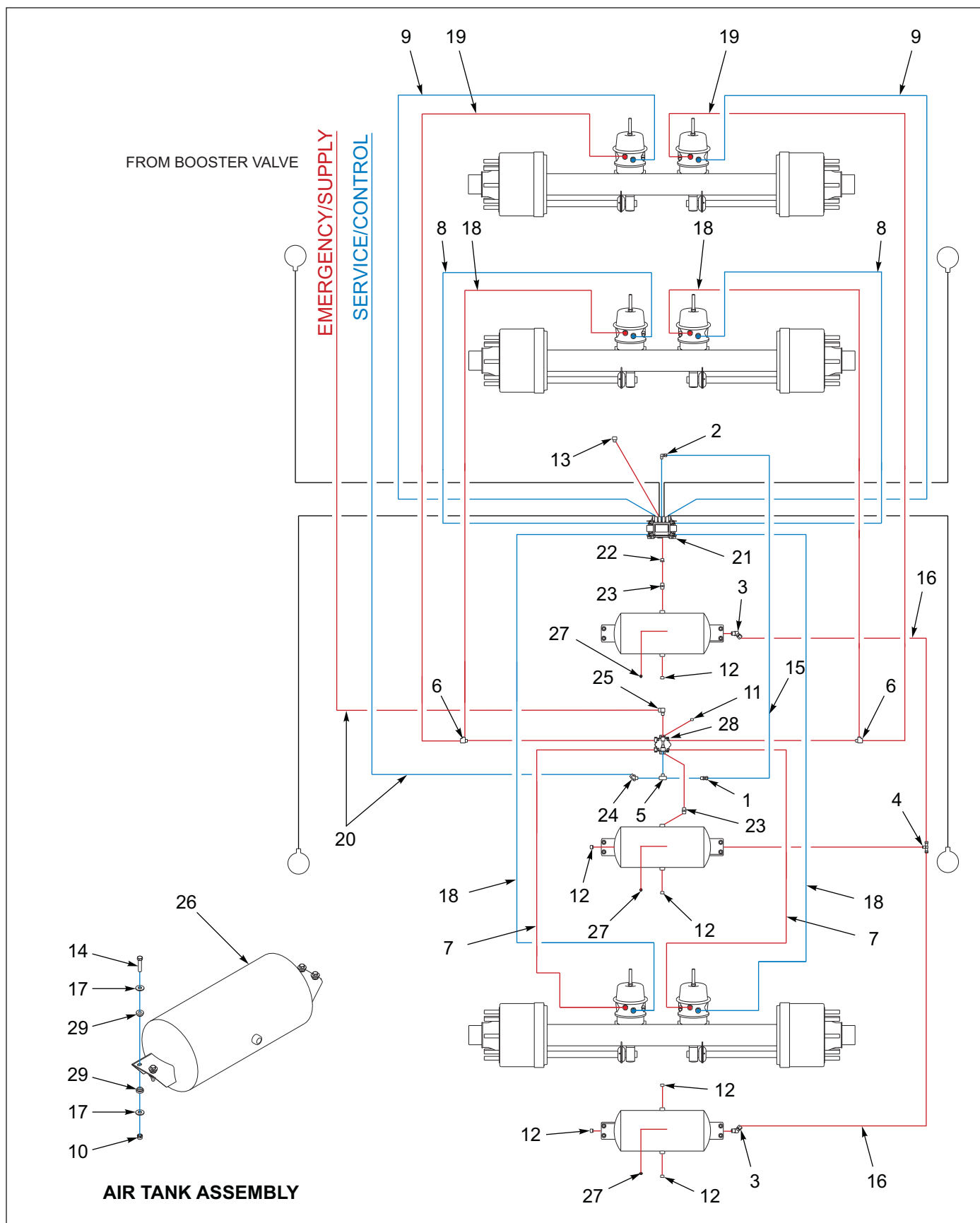


Figure 1-62: 950E-Air Brake System

950E-Air Brake System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	215086	SUSP 950E-12, 2512-77	--
	215087	SUSP 950E-12, 2516-75	--
	215088	SUSP 950E-14, 2512-77	--
	215099	SUSP 950E-14, 2516-75	--
	215090	SUSP 950E-15, 2512-77	--
	215091	SUSP 950E-15, 2516-75	--
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	1
2	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1
3	1-297-010013-16	FITTING,AIR 1/2X1/2 45 M/ELB	2
4	1-297-010015-11	FITTING,AIR,BR TEE 1/2T-1/2P	1
5	1-297-010017-03	FITTING,BRS PIPE M/BR TEE 3/8	1
6	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	2
7	1-384-010038024	HOSE ASM AIR 3/8X24,W/3/8 END	2
8	1-384-010038038	HOSE ASM AIR 3/8X38,W/3/8 END	2
9	1-384-010038076	HOSE ASM AIR 3/8X76,W/3/8 END	2
10	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	12
11	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
12	1-560-010002-04	PLUG, PIPE, 1/2NPT	6
13	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	1
14	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G	12
15	1-833-010002	TUBING NYLON 3/8 OD	10
16	1-833-010003	TUBING NYLON 1/2 OD	10
17	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24
18	101003	HOSE ASM AIR 3/8X48,W/3/8 END	4
19	103738	HOSE ASM AIR 3/8X100,W/3/8 END	2
20	112244	HOSE ASM AIR 3/8X268,W/3/8 END	2
21	114586	ABS KIT WABCO 4S/2MTRI/SPREAD	1
22	118-2659-9	BUSHING 1/2NPTX3/4NPT STL	1
23	2083-8-8S	NIPPLE 1/2NPTX1/2NPT	2
24	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	1
25	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT	1
26	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	3
27	56D4	COCK,DRAIN AIR TANK VEL, 036019	3
28	758-181	VALVE TASK 4 PORT	1
29	805-2	BUSHINGS, STEP	24

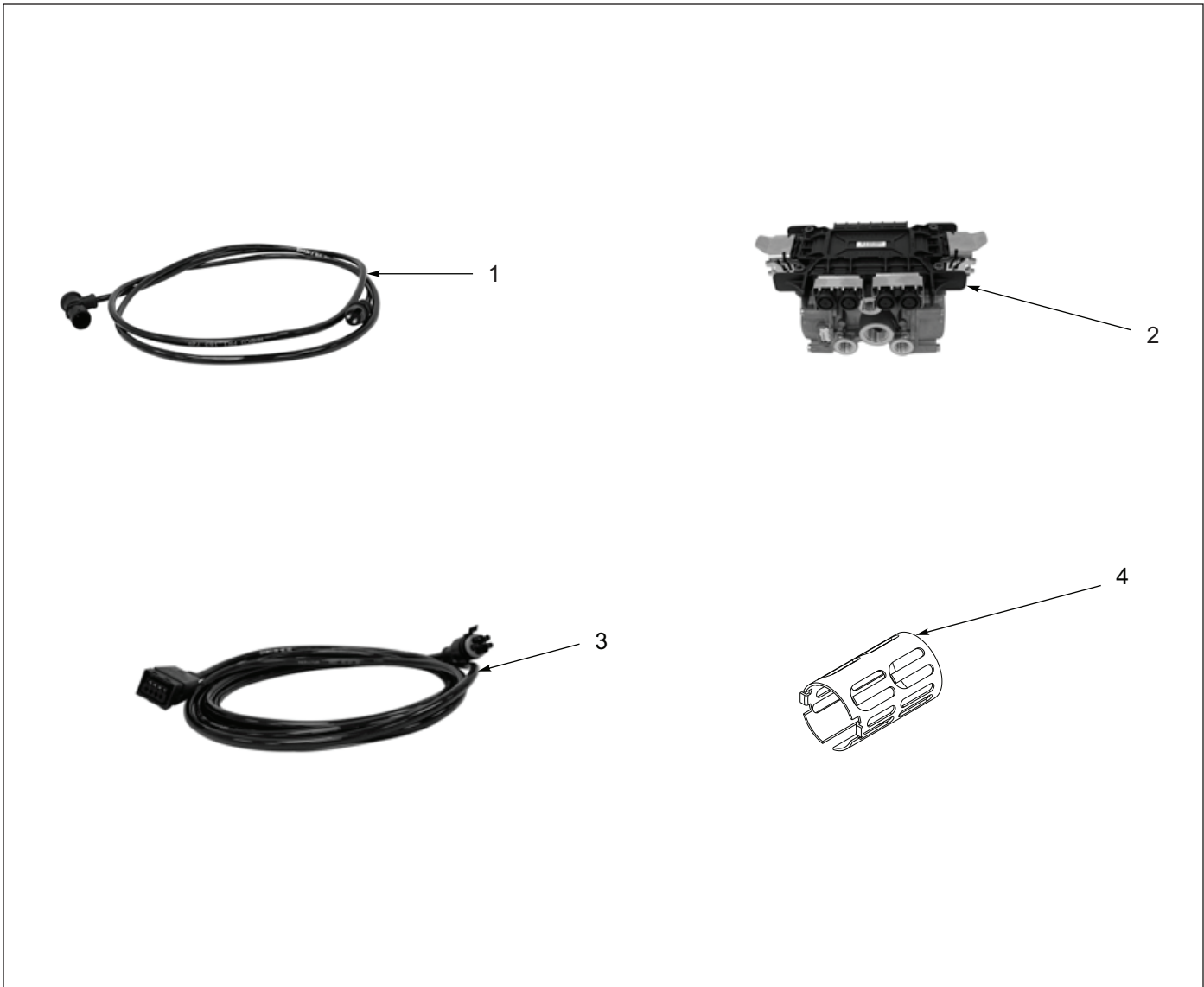


Figure 1-63: Kit-ABS Brake-Rockwell

Kit-ABS Brake-Rockwell

ITEM	PART NUMBER	DESCRIPTION	QTY.
	114584	ABS KIT WABCO 4S/2M TAB (INCLUDES ITEMS 1-3) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)	--
	114586	ABS BRAKE KIT 4S/2M-TRI/SPRD (INCLUDES ITEMS 1-3) (AFTER 12/08/2021 - REPLACED 114584)	--
1	101848	SENSOR EXT. CABLE,1.78M,ABS (6' LONG) (114584) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 103861)	4
1	103861	SENSOR EXT CABLE-3M (10FT) (114586) (AFTER 12/08/2021)	4
2	114588	ECU/VALVE ASSEMBLY 4S/2M	1
3	147464	POWER CABLE 4.0M (13' LONG)	1
4	101849	SPRING CLIP, ABS SENSOR	2
5	101847	ABS SENSOR CABLE-4M 90° (1FT) (NOT SHOWN) (SEE PAGES 1-86, 1-89 & 1-97 FOR REFERENCE)	2

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Tire Inflation System

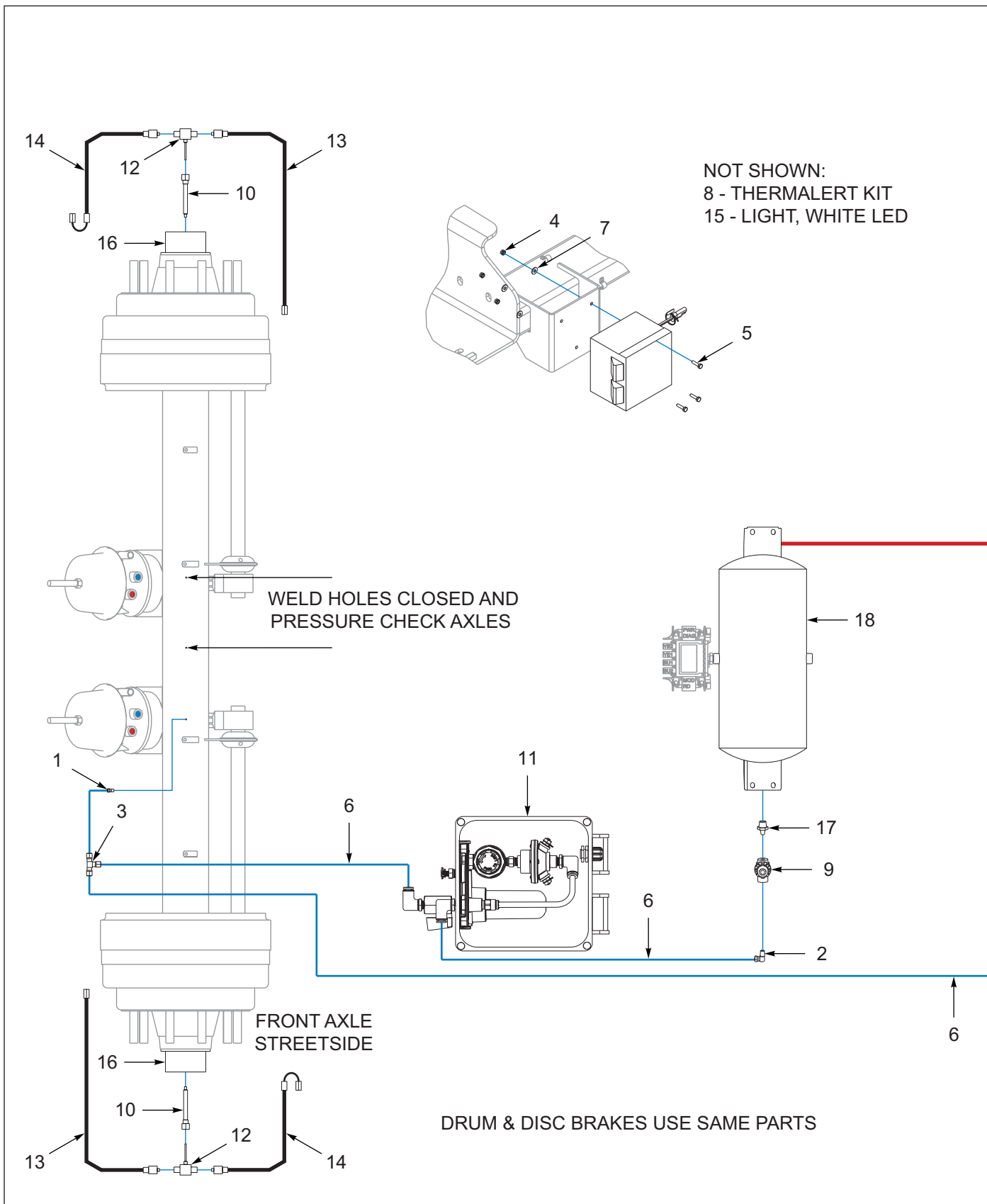


Figure 1-64: Thermalert, 2 Axle Air System (OPTION) (1 of 2)



Thermalert, 2 Axle Air System (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	223304	2 AXLE TIS TRAVELING AXLE	--
1	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT (PART OF ITEM 8)	2
2	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT (PART OF ITEM 8)	1
3	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
4	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	3
5	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	3
6	1-833-010001	TUBING NYLON 1/4 OD (BY THE FOOT)	--
7	1-861-010032-07	WASHER,FLAT 1/4 ZP	3
8	168593	THERMALERT TIS 2 AXLE (INCLUDES ITEMS 1-2, 6, 9-14) (ELECTRICAL & ADDITIONAL AIR PARTS - SEE PAGE 1-123)	1
9	168610	THERMALERT PRESS PROT VALVE (PART OF ITEM 8)	1
10	168616	THERMALERT STAT & FILTER ASSY (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
11	168618	THERMALERT CONTROL BOX (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	1
12	178592	THRU TEE ASSEMBLY 4.25" (PART OF ITEM 8) (INCLUDES SHIELD & VENT CAP) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
13	180839	TIS LONG HOSE (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
14	180840	TIS SHORT HOSE (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
15	183413	LIGHT,WHT LED .75 CL/MK GROTE (ELECTRICAL - SEE PAGE 1-123)	1
16	197613	HUB CAP TIS OIL AXLE (STANDARD)	4
16	197318	HUB CAP TIS GREASE AXLE (OPTION)	4
17	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
18	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	2

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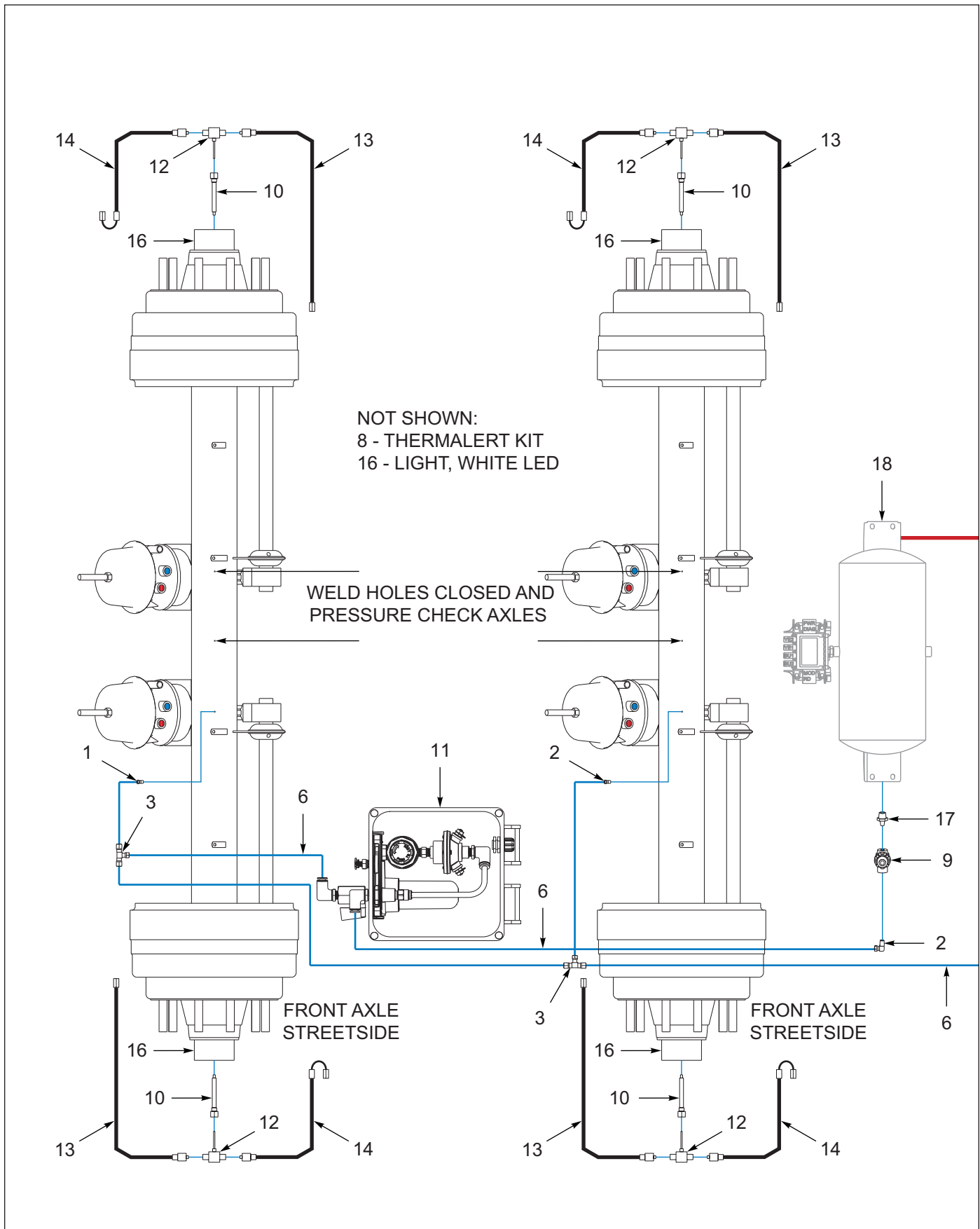


Figure 1-66: Thermalert, 3 Axle Air System (OPTION) (1 of 2)

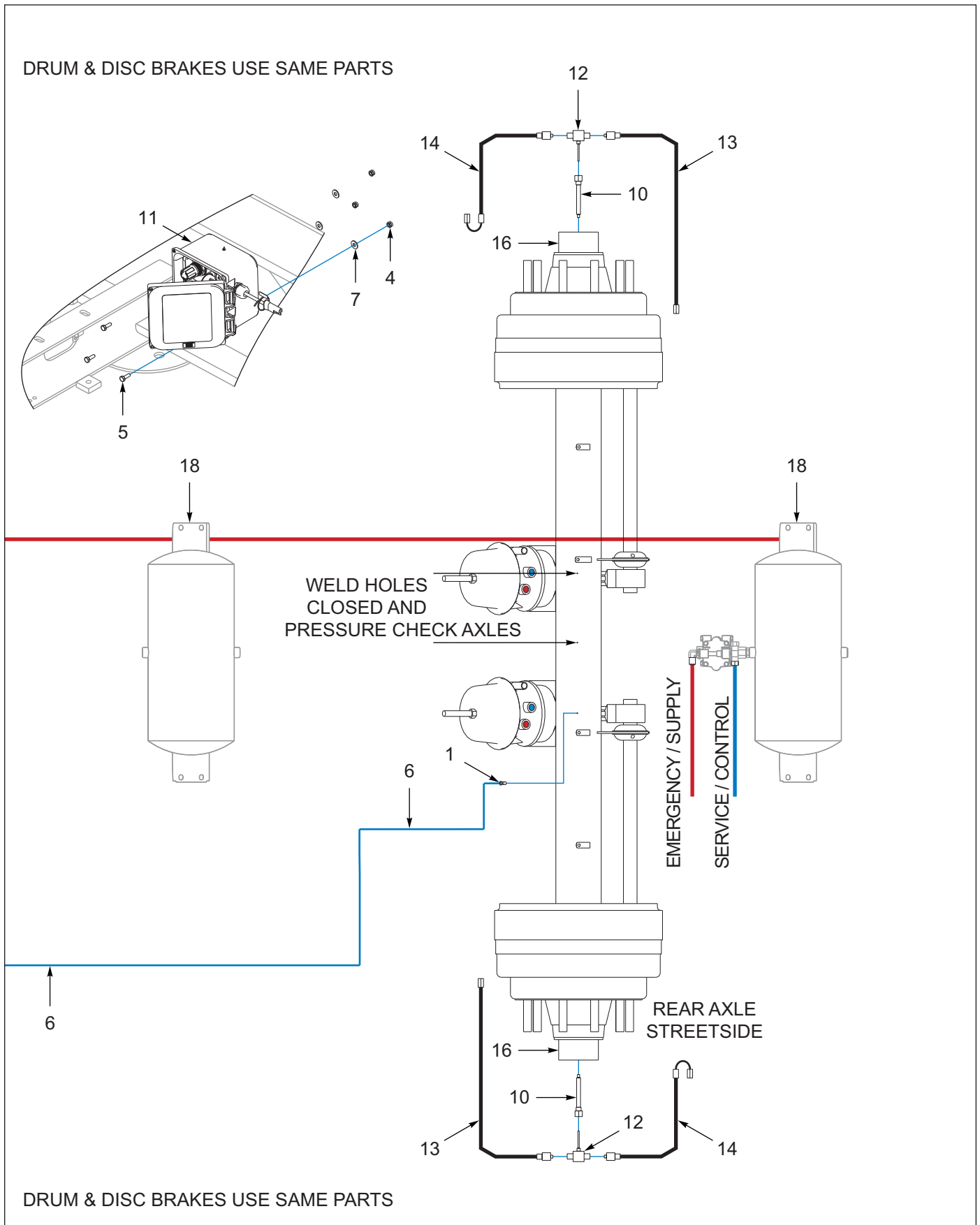


Figure 1-67: Thermalert, 3 Axle Air System (OPTION) (2 of 2)

Thermalert, 3 Axle Air System (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	223306	3 AXLE TIS TRAVELING AXLE	- -
1	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT (PART OF ITEM 8)	3
2	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	1
3	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	2
4	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	3
5	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	3
6	1-833-010001	TUBING NYLON 1/4 OD (BY THE FOOT) (PART OF ITEM 8)	- -
7	1-861-010032-07	WASHER,FLAT 1/4 ZP	3
8	195395	THERMALERT TIS 3 AXLE (INCLUDES ITEMS 1, 6, 9-14) (ELECTRICAL & ADDITIONAL AIR PARTS - SEE PAGE 1-123)	1
9	168610	THERMALERT PRESS PROT VALVE (PART OF ITEM 8)	1
10	168616	THERMALERT STAT & FILTER ASSY (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
11	168618	THERMALERT CONTROL BOX (PART OF ITEM 8)	1
12	178592	THRU TEE ASSEMBLY 4.25" (PART OF ITEM 8) (INCLUDES SHIELD & VENT CAP) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
13	180839	TIS LONG HOSE (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
14	180840	TIS SHORT HOSE (PART OF ITEM 8) (ADDITIONAL AIR PARTS - SEE PAGE 1-123)	6
15	183413	LIGHT,WHT LED .75 CL/MK GROTE (ELECTRICAL - SEE PAGE 1-123)	1
16	197613	HUB CAP TIS OIL AXLE (STANDARD)	6
16	197318	HUB CAP TIS GREASE AXLE (OPTION)	6
17	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
18	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	3

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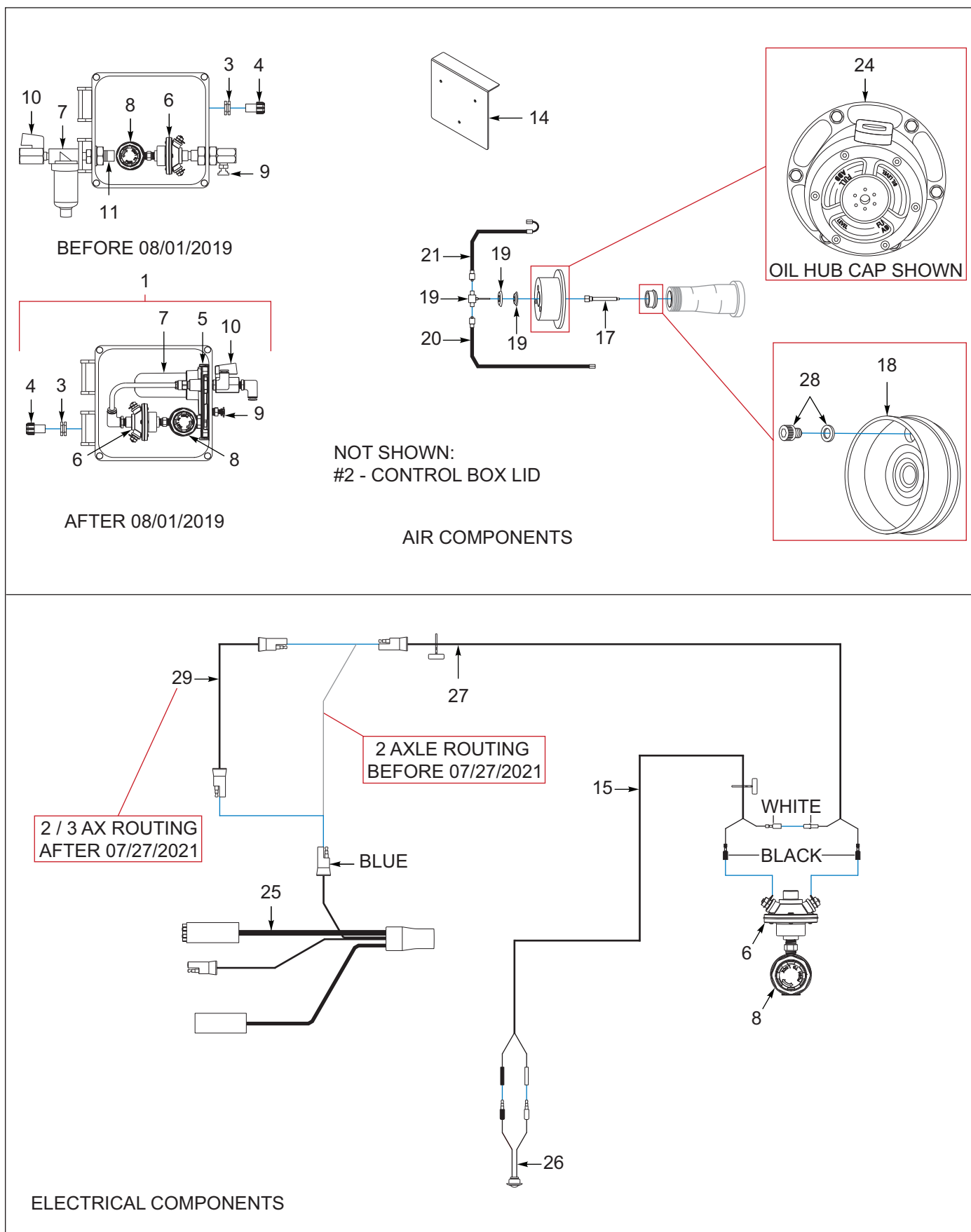


Figure 1-68: Thermalert Electrical System & Components (OPTION)

Thermalert Electrical System & Components (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	223304	2 AXLE TIS TRAVELING AXLE	--
	168593	THERMALERT TIS 2 AXLE (INCLUDES ITEMS 1-23)	--
	223306	3 AXLE TIS TRAVELING AXLE	--
	195395	THERMALERT TIS 3 AXLE (INCLUDES ITEMS 1-23)	--
1	168618	THERMALERT CONTROL BOX (BEFORE 08/01/2019 INCLUDES ITEMS 2-4, 6-11) (AFTER 08/01/2019 INCLUDES ITEMS 2-10)	1
2	216705	CONTROL BOX LID (180226) (NOT SHOWN)	1
3	106-0006	NUT 1/2 CONDUIT STL	1
4	20125	STRAIN RELIEF, 1/4TO3/8	1
5	230613	TIS MANIFOLD ASSY (AFTER 08/01/2019) (INCLUDES ITEMS 7-8 PLUS GASKET, 4 SCREWS & 8" AIR LINE)	1
6	180229	FLOW SENSE SWITCH (216704)	1
7	180228	SELF-DRAINING FILTER (BEFORE 08/01/2019)	1
7	-----	PARTICULATE FILTER ASSEMBLY (AFTER 08/01/2019 PART IF ITEM 5) (INCLUDES FILTER 31104-00 AND BOWL 31105-00)	--
8	180224	PRESSURE REGULATOR VALVE (216708) (BEFORE 08/01/2019)	1
8	-----	PRESSURE REGULATOR (AFTER 08/01/2019 PART OF ITEM 5)	--
9	180225	PETCOCK (216706)	1
10	180223	SHUT-OFF VALVE (216709)	1
11	180227	BULKHEAD/CHECK VALVE (BEFORE 08/01/2019 ONLY)	1
12	1-833-010001	TUBING NYLON 1/4 OD (NOT SHOWN - SEE PAGE 1-110 & 1-114)	--
13	168610	THERMALERT PRESS PROT VALVE (NOT SHOWN - SEE PAGE 1-110 & 1-114)	1
14	168611	THERMALERT CNTRL BOX BRKT	1
15	168613	THERMALERT WIRING HARNESS	1
16	168614	THERMALERT LIGHT BAG ASSY (NOT SHOWN)	1
17	168616	THERMALERT STAT & FILTER ASSY (PER AXLE)	2
18	168617	THERMALERT PRESS PLUG ASSY (PER AXLE)	2
19	178592	THRU TEE ASSEMBLY 4.25" (INCLUDES SHIELD & VENT CAP) (PER AXLE)	2
20	168612	TIS LONG HOSE (180839) (17" LONG) (PER AXLE)	2
21	180222	TIS SHORT HOSE (180840) (13-1/2" LONG) (PER AXLE)	2
22	205836	ORANGE WARNING DECAL TIS (NOT SHOWN)	1
23	205837	YELLOW WARNING DECAL TIS (NOT SHOWN)	2
24	197318	HUB CAP TIS GREASE AXLE (OPTION) (PER AXLE)	2
24	197613	HUB CAP TIS OIL AXLE (STANDARD) (PER AXLE)	2
25	143103	HARNESS ECHAIN GROTE	--
26	183413	LIGHT,WHT LED .75 CL/MK GROTE	1
27	202207	HARNESS MOD, TIS POWER ASSY	1
28	228069	THERMALERT THERMAL PLUG KIT (INCLUDES 1 PLUG AND 1 GASKET)	1
29	3-368-010252	HARNESS ASSY BKHD LIGHT EXT (BEFORE 07/27/2021, 3 AXLE ONLY - AFTER 07/27/2021, USED ON 2 & 3 AXLES)	1

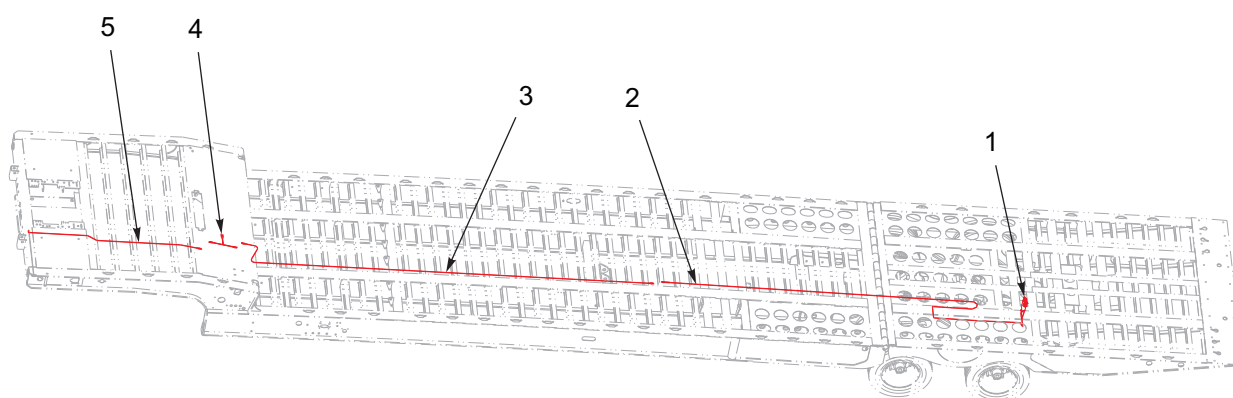


Figure 1-69: Kit-Harness-Tire Inflation System

Kit-Harness-Tire Inflation System (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	--
1	195395	TIRE INFLATION SYSTEM 3AX	--
1	168593	TIRE INFLATION SYSTEM 2AX	--
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

[illegible]

Winches

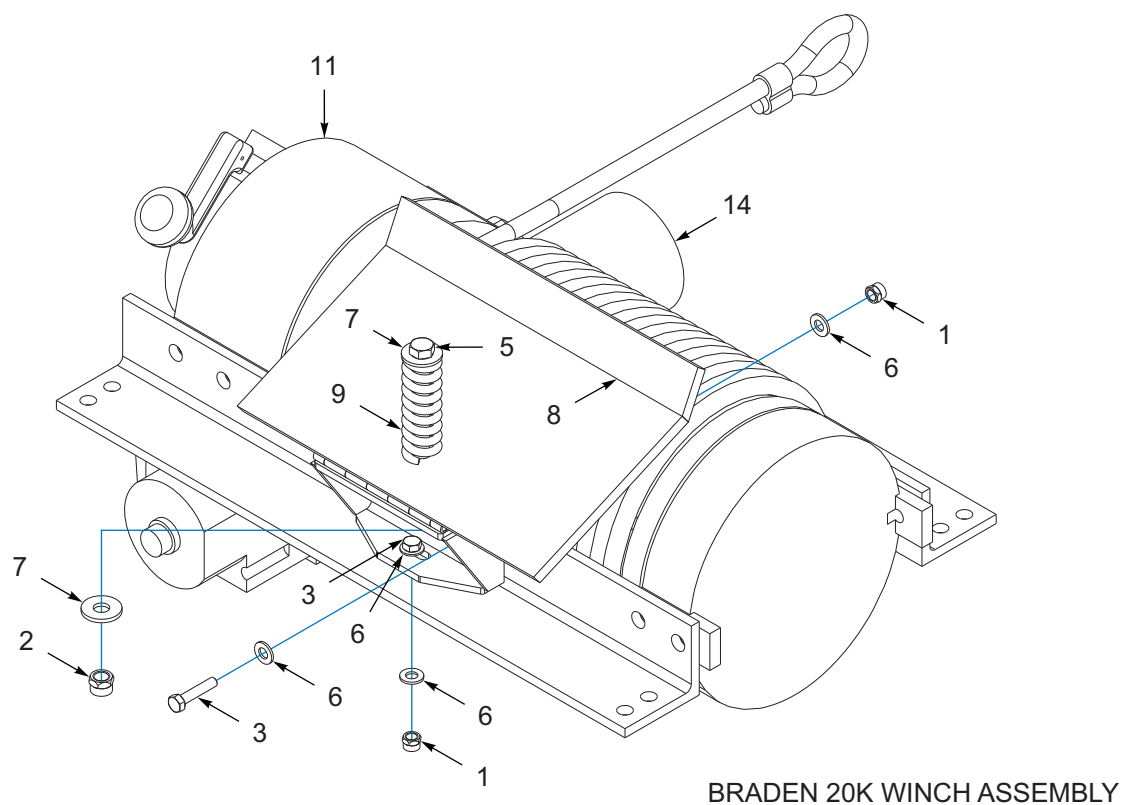
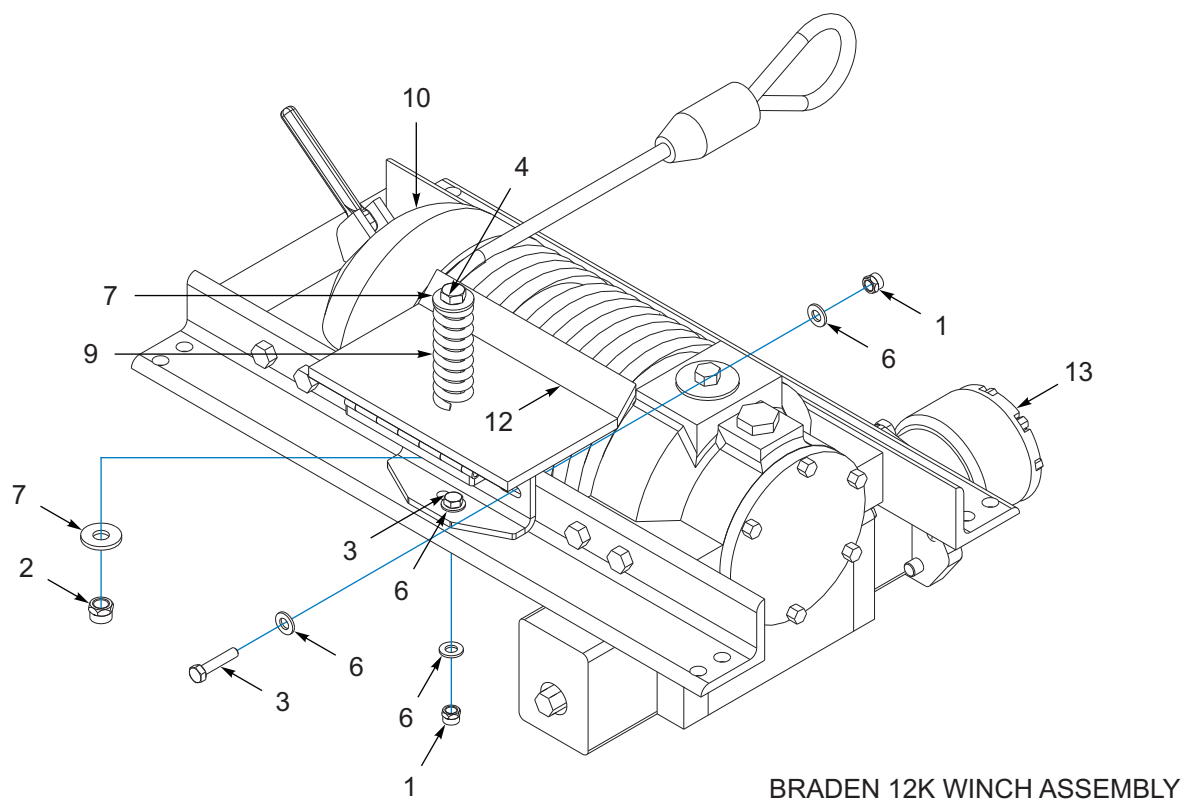
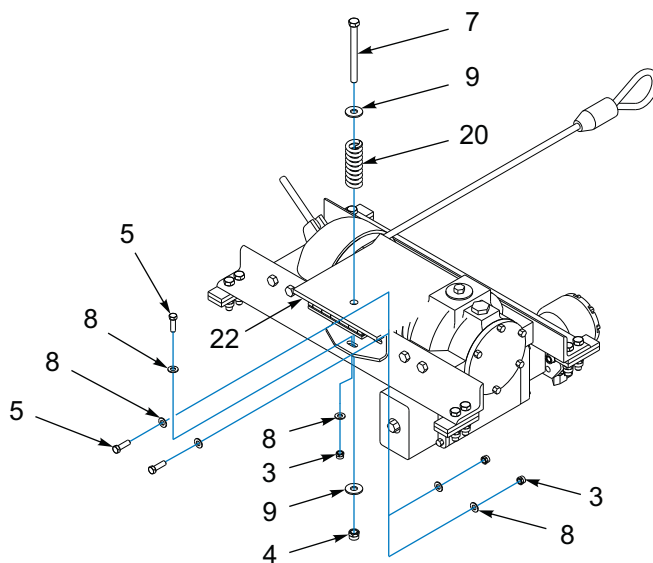


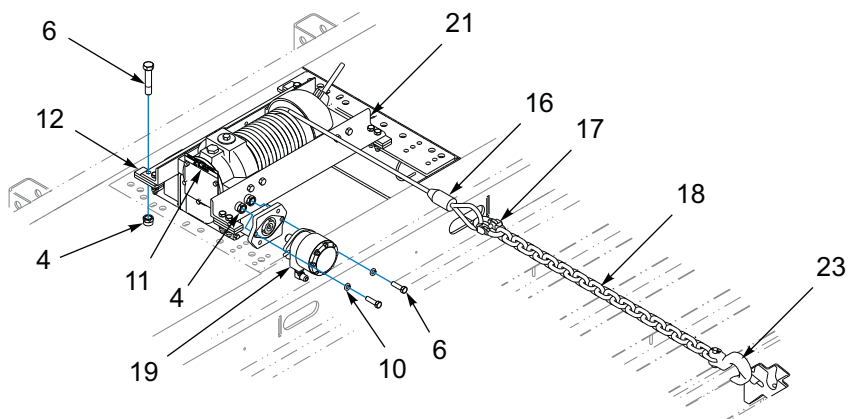
Figure 1-70: Winch Assembly, Braden 12K / 20K (OPTION)

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

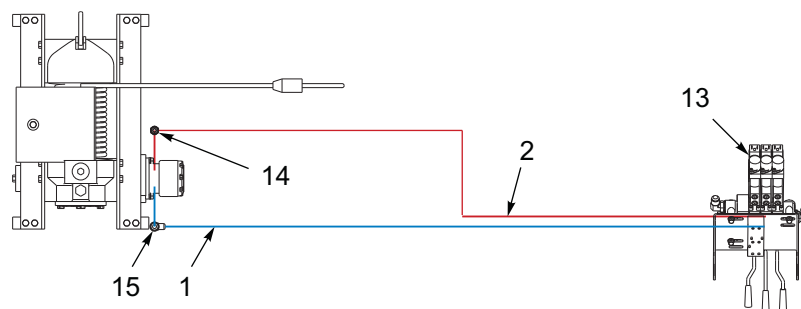
ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010126-2	WINCH ASSY,12,000 LB PARKER	--
	3-873-010129-2	WINCH ASSY,20000 LB, PARKER	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
3	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	1
5	1-654-010055-17	SCREW,HEX CAP,1/2-13UNCX6 GR5	1
6	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	6
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2
8	102186	WINCH TENS 20K BRADEN SPRG WLD	1
9	3-720-010010	SPRING COMP LEVEL WIND	1
10	3-873-010122	WINCH, WORM GEAR 12,000 LB (COMPONENTS - SEE PAGE 1-125)	1
11	3-873-010123	WINCH,WORM GEAR,20,000LB BRADN (COMPONENTS - SEE PAGE 1-137)	1
12	3-873-010124	WINCH TENSIONER WLDMT 12K	1
13	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A (KEY SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 1-141)	1
14	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B (SPLINE SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 1-141)	1



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-71: Winch Installation, Braden 12K Spring Tension (OPTION)

Winch Installation, Braden 12K Spring Tension (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010144-01	WINCH, 12K SPRING TENSION	--
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
6	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10
7	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
8	1-861-010032-10	WASHER, FLAT 3/8N	6
9	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2
10	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
11	100600	DECAL, WARNING, BRADEN WINCH	1
12	116378	SPACER, WINCH	8
13	148241	VALVE ASSEMBLY, 3-SPOOL 400 (SEE PAGE 1-26)	1
14	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1
15	2062-10-8S	ADAPTER, 90, #10 O-RING - #8 TUBE	1
16	3-155-010017-4	CABLE ASSEMBLY, 1/2 X 85' LENGTH	1
17	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1
18	3-174-010039036	CHAIN, 1/2 X 36" GRD7	1
19	3-481-010006	MOTOR HYD. - 12K (SEE PAGE 1-141)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010122	WINCH, WORM GEAR 12,000 LB	1
22	3-873-010124	WINCH TENSIONER, 20K BRADEN SPRING	1
23	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

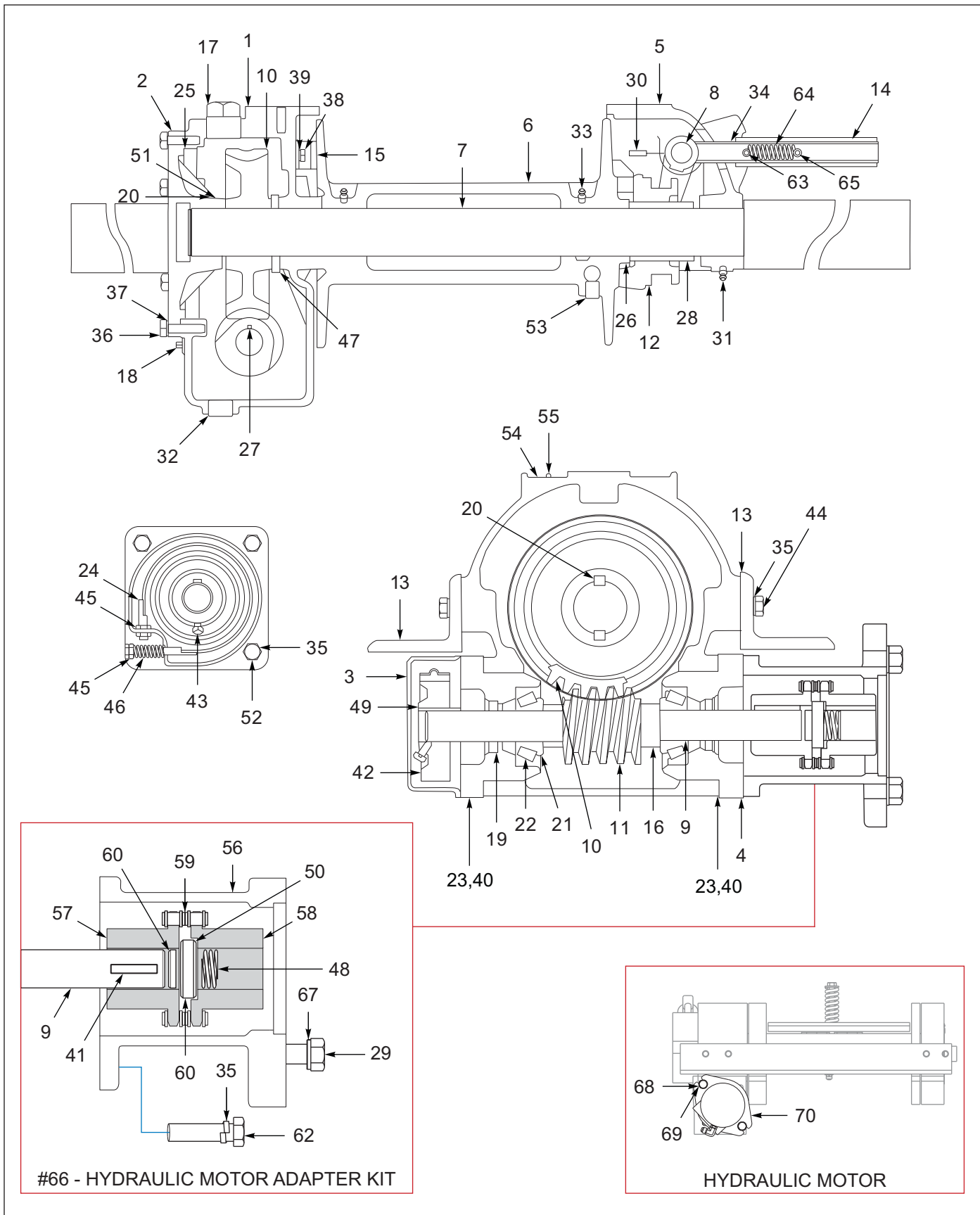


Figure 1-72: Winch Components, Braden 12K (OPTION)

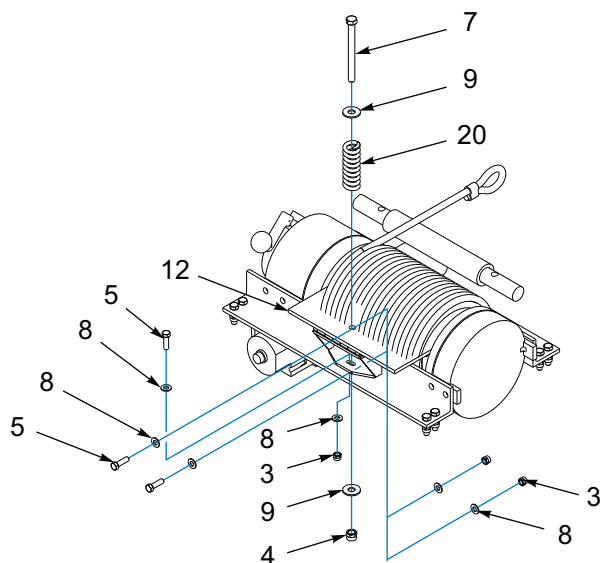
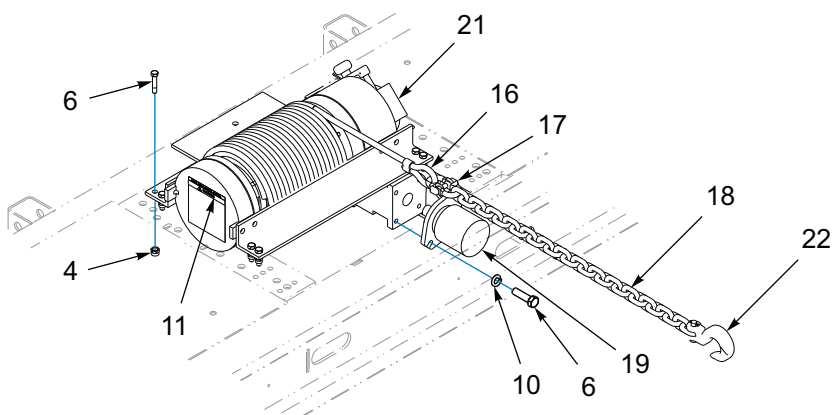
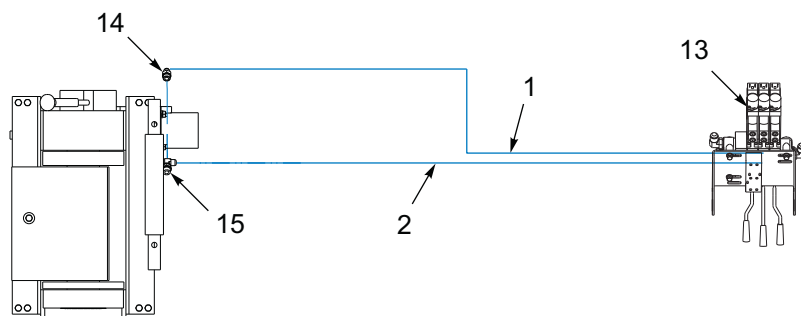
Winch Components, Braden 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010122	WINCH, WORM GEAR 12,000 LB	--
	3-873-010126-2	WINCH ASSY,12,000 LB PARKER	--
1	81006	HOUSING	1
1	18078	BUSHING-WORM HSNG ASSY12MBRAD	1
2	81009	LU2-144-0 WORM HOUSING COVER	1
2	11368	BUSHING 12K WORM WINCH HOUSING	1
3	18032	BEARING CONTAINER	1
4	23303	CONTAINER BEARING	2
5	81530	LEG ASSY	1
6	11128	CABLE DRUM	1
7	11129	CABLE DRUM SHAFT	1
8	11130	SHIFTER SHAFT BRADEN	1
9	23470	WORM SHAFT	1
10	11144	GEAR, WORM, LH (BIG GEAR)	1
11	11142	WORM (LITTLE GEAR)	1
12	18039	CLUTCH COLLAR	1
13	22752	ANGLE BASE ALU-2-146 12M BRAD	2
14	12817	SHIFTER HANDLE	1
15	81025	DRAG BRAKE LGU2-10F WINCH	1
16	11308	WORM SPACER	2
17	-----	PLUG PIPE (22775)	1
18	18009	PLUG	1
19	18026	SEAL	2
20	11117	KEY	2
21	18015	BEARING CONE BRADEN LGU2	2
22	18016	BEARING CUP BRADEN LGU2	2
23	18027	GASKET	3
24	21925	BRK BAND ASSY	1
25	11133	SEAL	3
26	18019	RING RETAINER	1
27	18030	KEY	1
28	18020	CLUTCH KEY	2
29	-----	CAPSCREW (10009)	2
30	11837	ROLL PIN	2
31	18047	GREASE FITTING	1
32	19045	DRAIN PLUG	1
33	-----	FITTING GREASE (11799)	2
34	13839	SHIFTER FORK	1
35	110450	LOCKWASHER #18003	16
36	-----	CAPSCREW (11767)	6
37	11011	WASHER LOCK	6
38	-----	CAPSCREW (13005)	2
39	-----	WASHER LOCK (12780)	2
40	18024	GASKET	3
41	18044	KEY	1
42	18028	BRAKE DRUM	1
43	12075	SET SCREW	1
44	-----	CAPSCREW (21961)	12

Winch Components, Braden 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
45	13468	NUT	4
46	18029	BRAKE BAND SPRING	1
47	11240	THRUST RING BRADEN LUU2	1
48	110452	SPRING #23353	1
49	10078	ROTOR KEY	1
50	23078	CONSTANT SPACER	1
51	13680	RING,THRUST	1
52	110453	CAPSCREW #22703	4
53	218058	SET SCREW 12K WINCH CABLE	1
54	-----	WARNING PLATE (23310)	1
55	-----	DRIVE SCREW (11842)	2
56	23079	MOTOR ADAPTER 12M WINCH	1
57	23081	COUPLER HALF WINCH	1
58	23083	COUPLING HALF MOTOR LGU2-10F	1
59	13424	CHAIN RLR	1
60	115851	SPACER #23085	1
61	-----	SHIPPING COVER (21959)	1
62	110449	CAPSCREW #22704	4
63	13028	ROLL PIN	1
64	18002	SPRING	1
65	18056	ROLLPIN	1
66	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH (INCLUDES ITEMS 48, 50, 56-60)	1
67	216581	LOCKWASHER (11026)	4
68	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
69	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
70	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A (KEY SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 1-141)	1

[illegible]

**SPRING TENSIONER ASSEMBLY****WINCH ASSEMBLY****HYDRAULIC SYSTEM****Figure 1-73: Winch Installation, Braden 20K Spring Tension (OPTION)**

Winch Installation, Braden 20K Spring Tension (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010140-01	WINCH, 20K SPRING TENSION	--
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
6	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10
7	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
8	1-861-010032-10	WASHER, FLAT 3/8N	6
9	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2
10	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
11	100600	DECAL, WARNING, BRADEN WINCH (SEE PAGE 1-4)	1
12	102186	WINCH TENSIONER, 20K BRADEN SPRING	1
13	148241	VALVE ASSEMBLY, 3-SPOOL 400	1
14	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1
15	2062-10-8S	ADAPTER, 90, #10 O-RING - #8 TUBE	1
16	3-155-010018-6	CABLE, 5/8, WITH LOOP, 85 FEET	1
17	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1
18	3-174-010039036	CHAIN, 1/2 X 36" GRD7	1
19	3-481-010007	MOTOR HYD. 12.9 CU. IN/REV, SAE B (SEE PAGE 1-141)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010123	WINCH ASSEMBLY, 20,000LB. (SEE PAGE 1-136)	1
22	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

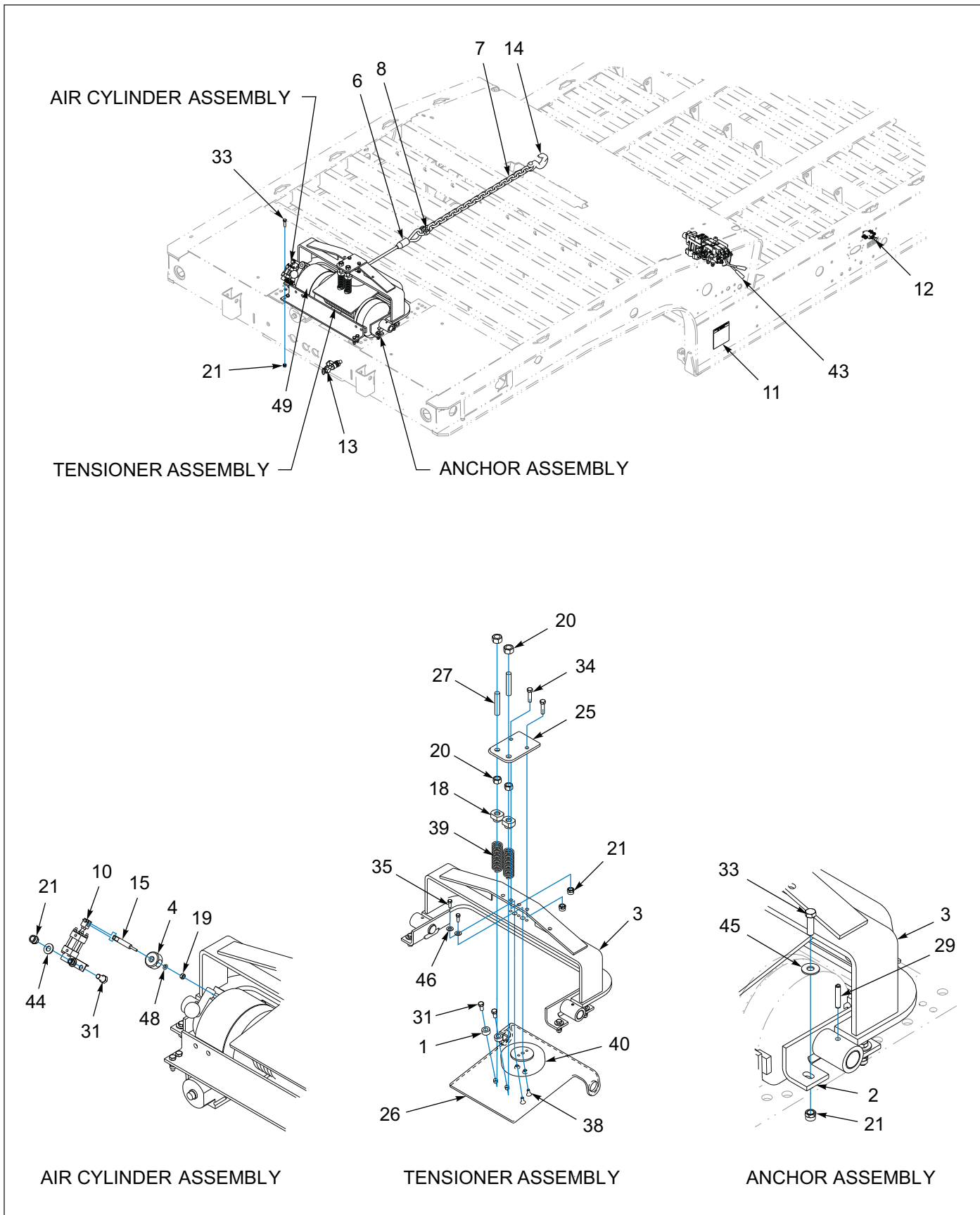


Figure 1-74: Winch Installation, Braden 20K Air Tension/Release (1 of 3)

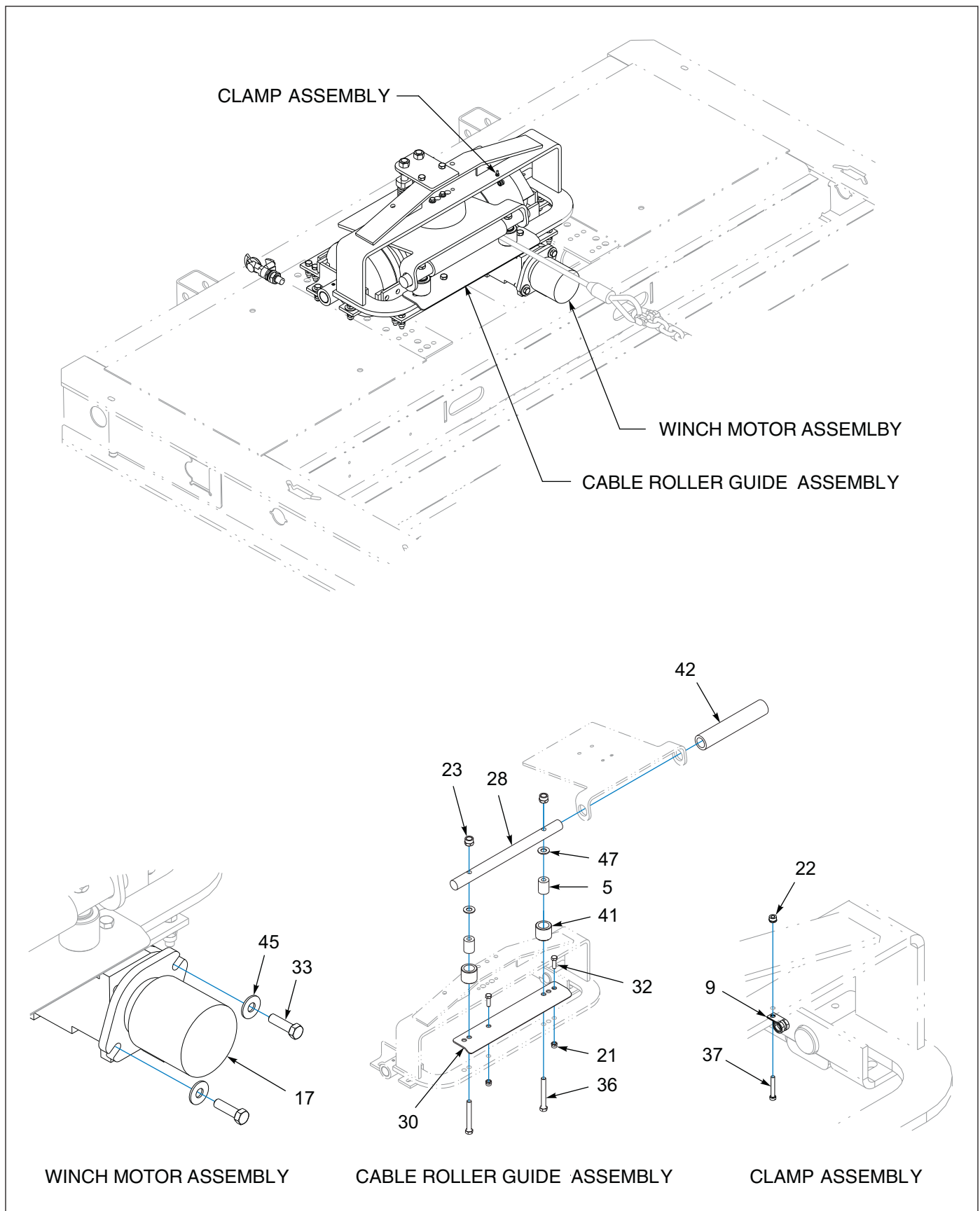


Figure 1-75: Winch Installation, Braden 20K Air Tension/Release (2 of 3)

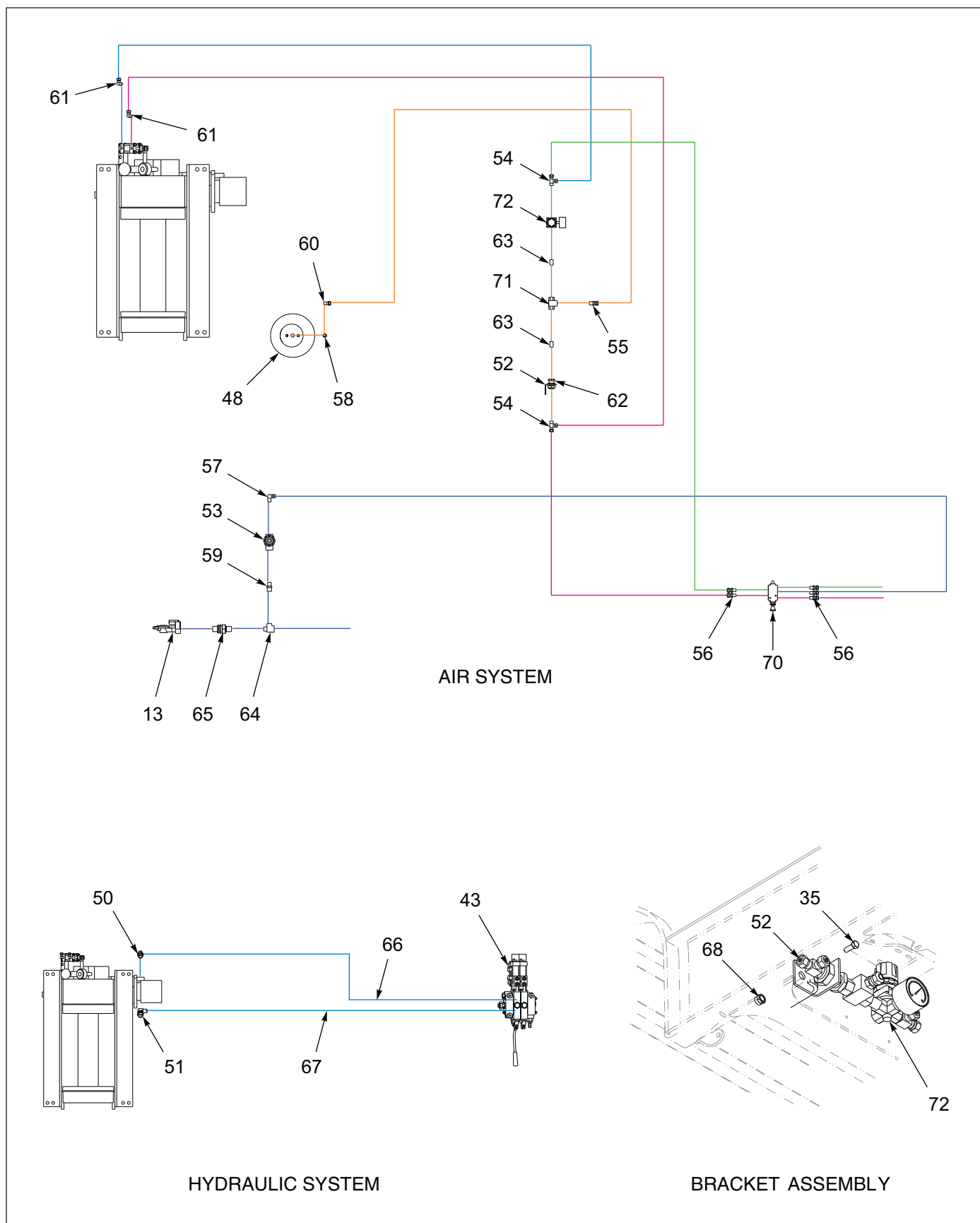


Figure 1-76: Winch Installation, Braden 20K Air Tension/Release (3 of 3)

Winch Installation, Braden 20K Air Tension/Release (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	162415	WINCH INSTALLATION, 20K GUIDE AIR TENSION/RELEASE - STD	--
1	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION	2
2	119621	ANCHOR CABLE GUIDE WINCH (NOT SHOWN)	2
3	3-125-010465	BRACKET WELDMENT WINCH TENSIONER	1
4	3-150-010186	BUSHING WINCH REMOTE LEVER	1
5	3-150-010196	BUSHING, ROD ROLLER	2
6	3-155-010018-6	CABLE 85' W/ LOOP	1
7	3-174-010039036	CHAIN 1/2 X 36 GR7	1
8	3-174-010038	CHAIN LINK CONNECTING 1/2	1
9	125892	SUPPORT CLAMP	1
10	107368	WINCH AIR SHIFT CYL (SEE PAGE 1-142)	1
11	100600	DECAL, WARNING WINCH (SEE PAGE 1-4)	1
12	135184	DECAL, WINCH FREE SPOOL (NOT SHOWN)	1
13	108801	GLAD HAND, RED AIR	1
14	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1
15	107369	LEVER WINCH FREE SPOOL	1
16	#242 LOCKTITE	LOCKTITE, #242, BLUE REMOVABLE (NOT SHOWN)	.10
17	3-481-010007	MOTOR HYD. (SEE PAGE 1-141)	1
18	3-522-010017	NUT F/W SPRING TENSION	2
19	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
20	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	18
22	1-512-010004-03	NUT, HEX LOCK #10-24	1
23	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
24	119622	PIN, PIVOT WINCH ROLLER (NOT SHOWN)	2
25	3-565-011688	PLATE F/W SPRING TENSION	1
26	102187	PLATE, WINCH TENSIONER	1
27	RTR7999X4ZP	ROD THREADED	2
28	102188	ROD, PIVOTING GUIDE	1
29	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8 (NOT SHOWN)	2
30	143246	RUB BAR, CABLE GUIDE WINCH	1
31	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	4
32	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
33	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	14
34	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
35	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
36	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
37	1-654-010024055	SCREW, MACH. #10-24 X 1-1/4	1
38	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
39	3-720-010035	SPRING	2
40	3-720-010042	SPRING, AIR BAG, 6-1/2	1
41	3-831-010172	TUBE, ROLLER SIDE	2
42	3-831-010182	TUBE, ROLLER TOP-600 20K	1
43	140802	VALVE ASSEMBLY	1
44	1-861-010032-14	WASHER, FLAT 1/2N	2
45	1-861-010032-15	WASHER, FLAT 1/2W	6
46	1-861-010032-10	WASHER, FLAT 3/8N	2
47	1-861-010032-18	WASHER, FLAT 5/8N	2

Winch Installation, Braden 20K Air Tension/Release (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
48	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
49	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 1-136)	1
50	202702-10-8S	ADAPTER	1
51	2062-10-8S	ADAPTER 90	1
52	3-120-010445	BRACKET, PRESSURE REGULATOR	1
53	905-54-107	BRAKE PROTECTION VALVE	1
54	1-297-010011-02	FITTING, AIR M/RUN TEE	2
55	1-297-010007-05	FITTING, AIR 1/4	1
56	1-297-010007-04	FITTING, AIR, 1/4 TUBE X X 1/8 NPT	5
57	1-297-010008-07	FITTING, AIR 90	1
58	1-297-010031-02	FITTING, BRASS PIPE	1
59	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
60	1-297-010032-03	FITTING, AIR 90	1
61	1-297-010008-05	FITTING, AIR 90	2
62	1-297-010022-02	FITTING, AIR ANCHOR	1
63	1-297-010020-02	FITTING, BRASS PIPE	2
64	1-297-010018-03	FITTING, 1/4 TEE	1
65	55B61	FRAME UNION	1
66	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
67	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
68	1-512-010005-05	NUT, HEX LOCK 3/8-16	1
69	1-833-010001	NYLON TUBING 1/4 OD	21
70	139552	VALVE AIR, 5WAY/2POS, 1/8 NPT	1
71	3-843-010039-02	VALVE AIR SHUTTLE 1/4	1
72	3-626-010004	REGULATOR, AIR PRESSURE	1

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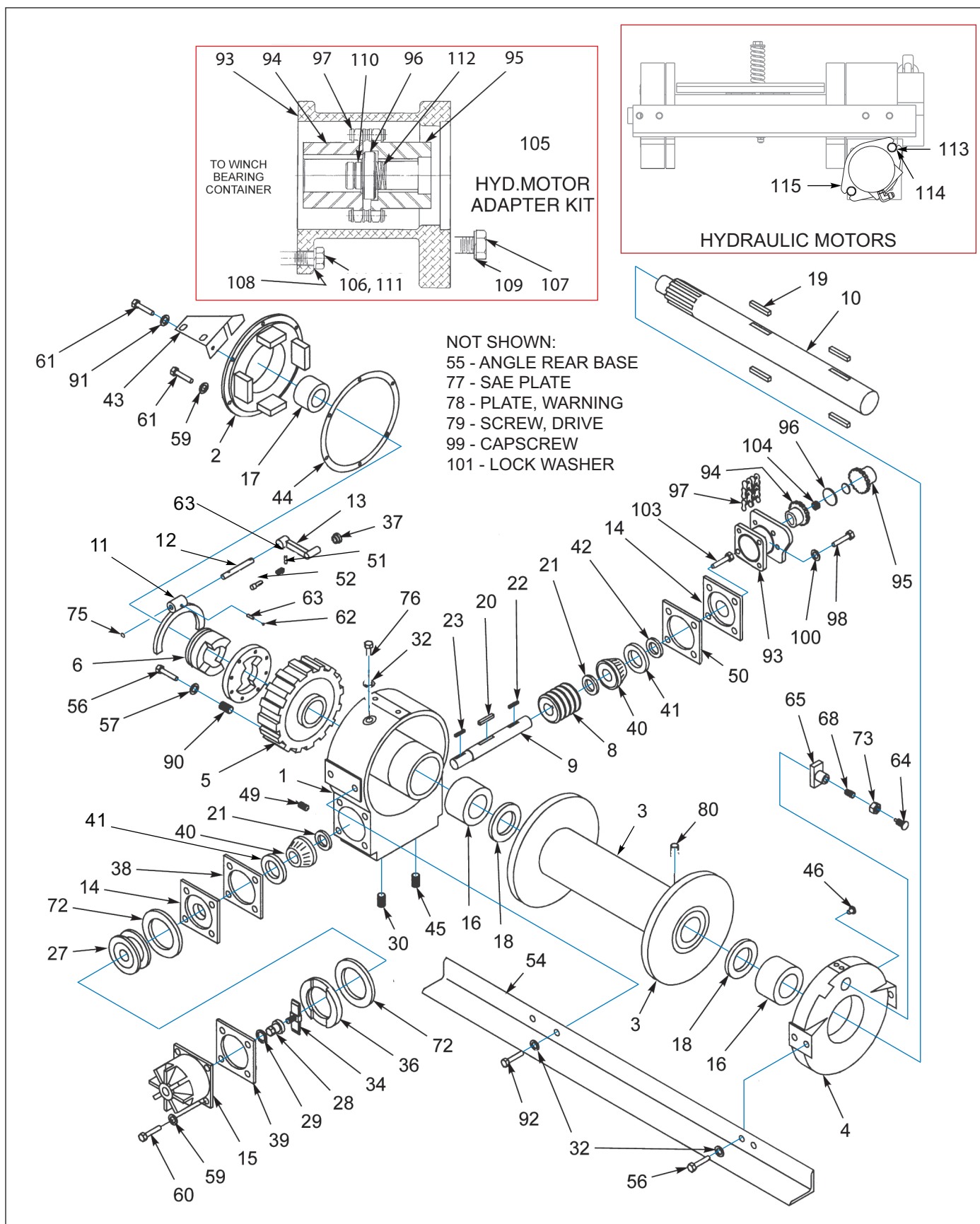


Figure 1-77: Winch Components, Braden 20K (OPTION)

Winch Components, Braden 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010123	WINCH,WORM GEAR,20,000LB BRADN	--
	3-873-010129-2	WINCH ASSY,20000 LB, PARKER	--
1	81078	WORM HOUSING ASSY	1
2	106956	WORM HOUSING COVER ASSY#81082	1
3	11449	DRUM CABLE, BRADEN 20K WINCH	1
4	81077	LEG ASSEMBLY, BEARING	1
5	11434	GEAR,WORM, RIGHT	1
6	11421	SLIDING CLUTCH	1
7	11419	CLUTCH DRIVE	1
8	154166	WORM GEAR FOR 20K WINCH	1
9	-----	SHAFT, WORM	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	1
14	124549	BEARING CONTAINER #11427	2
15	-----	COVER WORM BRAKE	1
16	18035	BUSHING	2
17	11425	BUSHING	1
18	11420	RING, RETAINING	2
19	163472	KEY, DRUM SHAFT	4
20	11402	WORM KEY	1
21	11407	WORM SPACER	2
22	23367	KEY SPROCKET	1
23	10078	ROTOR KEY	1
27	81080	ROTOR ASSY, BRAKE	1
28	11599	NUT,WORM BRAKE ADJUSTING	1
29	12465	O-RING	1
30	-----	PLUG, FILLER	1
32	-----	WASHER, LOCK	10
34	81081	SPRING ASSY SAFETY BRAKE 20K	1
36	11431	PRESSURE PLATE AMU7 WINCH	1
37	18022	SHIFTER KNOB 20# WINCH	1
38	11429	GASKET	4
39	11446	GASKET	2
40	18033	BEARING, CONE	2
41	18034	BEARING, CUP	2
42	12073	SEAL, GREASE	1
43	12783	LOCATING BRACKET AMU7 WINCH	1
44	11411	HOUSING COVER GASKET AMUF-16F	1
45	19045	DRAIN PLUG	1
46	18047	GREASE FITTING	1
48	-----	PLUG VENT	1
49	-----	PLUG LEVEL	1
50	11430	GASKET	4
51	11310	SPRING, SHIFTER KNOB 20# WNCN	1
52	11309	STEM, SHIFTER KNOB 20# WINCH	1
54	-----	ANGLE FRONT BASE	1

Winch Components, Braden 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
55	-----	ANGLE REAR BASE (NOT SHOWN)	1
56	-----	CAPSCREW	16
57	-----	WASHER, LOCK	8
58	-----	CAPSCREW	4
59	-----	WASHER, LOCK	3
60	-----	CAPSCREW	4
61	-----	CAPSCREW	6
62	12146	PLUG, EXPANSION	--
63	13028	ROLL PIN	--
64	11398	SCREW, ADJUSTMENT	1
65	88005	DRAG BRAKE SHOE ASSY	1
68	18002	SPRING	1
72	11426	DISC, FRICTION	2
73	11791	NUT,JAM	1
75	12767	PLUG, EXPANSION	--
76	-----	CAPSCREW	2
77	-----	SAE PLATE-AMU7-16F (NOT SHOWN)	1
78	-----	PLATE, WARNING (NOT SHOWN)	1
79	-----	SCREW, DRIVE (NOT SHOWN)	4
80	139478	SET SCREW FOR 20K WINCH	1
90	-----	INSERT THREAD	8
91	-----	LOCKWASHER	1
92	-----	CAPSCREW (NOT SHOWN)	5
93	23144	ADAPTER MOTOR 20M WINCH	1
94	23081	COUPLER HALF WINCH	1
95	110448	COUPLING #23142	1
96	23078	CONSTANT SPACER	1
97	13424	CHAIN RLR	1
98	-----	CAPSCREW	4
99	-----	CAPSCREW (NOT SHOWN)	4
100	-----	LOCKWASHER	4
101	-----	LOCKWASHER (NOT SHOWN)	4
102	-----	SPACER - VARIABLE	2
103	-----	CAPSCREW	4
104	-----	SPRING - SPACER	1
105	61344	MOTOR ADPT 20M BRADEN WINCH (INCLUDES ITEMS 93-97, 106-112)	1
106	-----	CAPSCREW	4
107	-----	CAPSCREW	4
108	-----	LOCKWASHER	4
109	-----	LOCKWASHER	4
110	110451	SPACER #23183	1
111	-----	CAPSCREW	4
112	110452	SPRING #23353	1
113	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
114	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
115	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B (SPLINE SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 1-141)	1

[illegible]

NOT SHOWN:
17 - KIT, SEAL

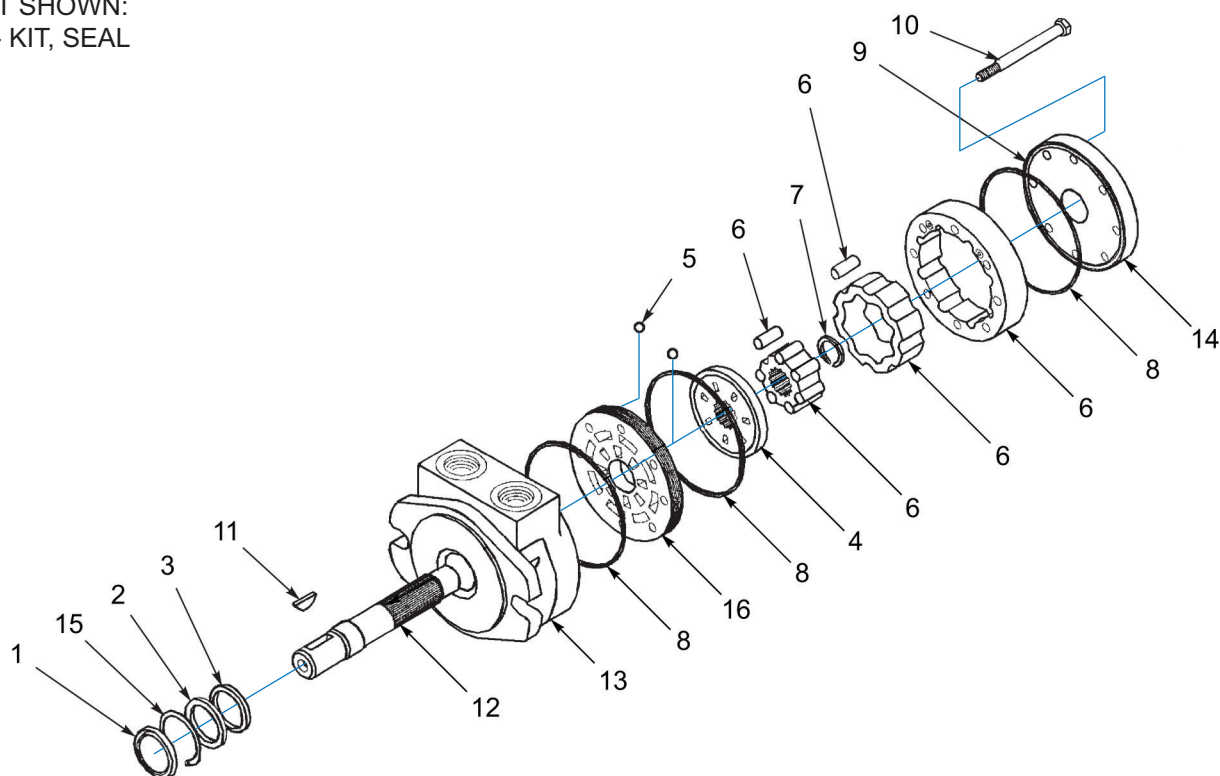


Figure 1-78: Winch Motor Assembly, Braden 12K / 20K (OPTION)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-481-010006	MOTOR, HYD 7.1 CU IN/REV, SAE A (12K WINCH)	--
	3-481-010007	MOTOR HYD 12.9CU IN/REV, SAE B (FOR 20K WINCH)	--
1	-----	SEAL DUST	1
2	-----	BACK-UP RING	1
3	-----	SEAL LIP	1
4	-----	ROTARY VALVE	1
5	-----	CHECK VALVE BALL	2
6	-----	IGR ASSEMBLY - 20K WINCH	1
6	-----	IGR ASSEMBLY - 12K WINCH	1
7	-----	SNAP RING	1
8	1046	SEAL SQ RING, MOTOR	3
9	-----	PLUG VENT W/O-RING	1
10	-----	BOLTS HEX - 20K WINCH	8
10	-----	BOLTS HEX - 12K WINCH	8
11	-----	KEY WOODRUFF	1
12	-----	SHAFTFOR - 20K WINCH	1
12	-----	SHAFTFOR - 12K WINCH	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

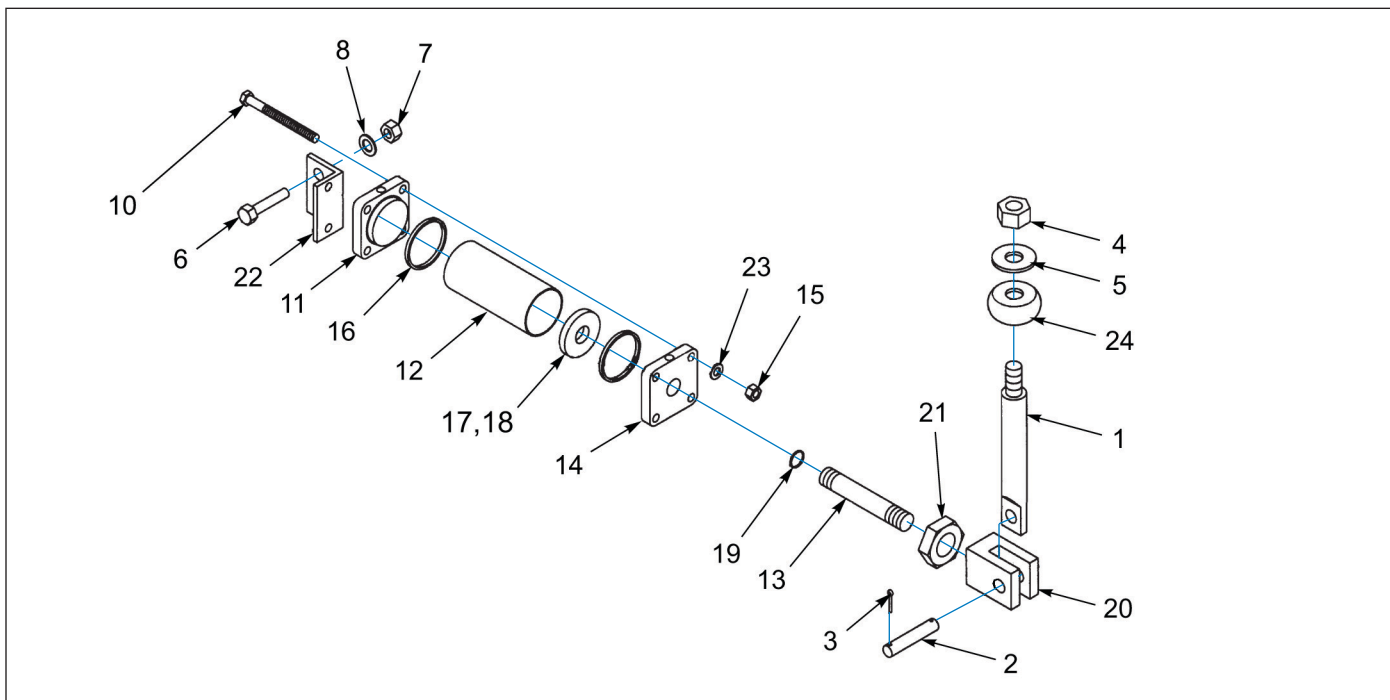
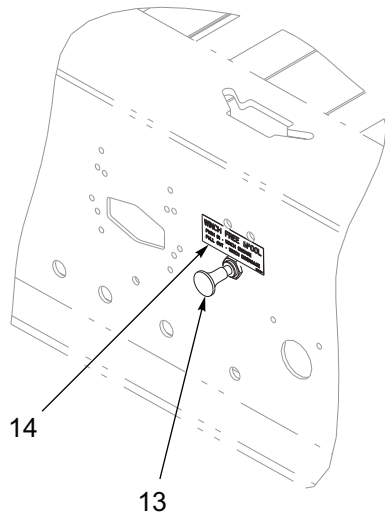


Figure 1-79: Winch Air Shift Cylinder Components, Braden 20K (OPTION)

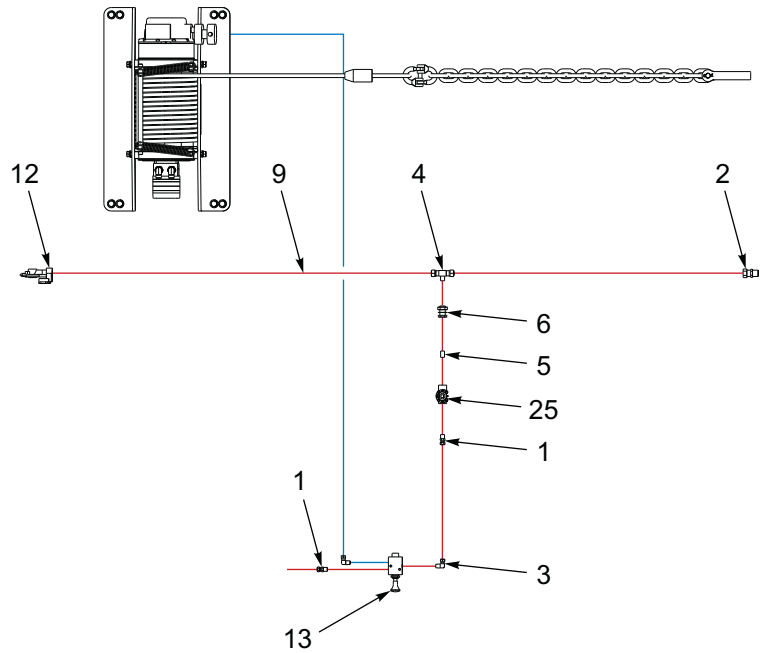
Winch Air Shift Cylinder Components, Braden 20K (OPTION)

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	107368	-----	CYLINDER, AIR W/ BRACKET (ITEMS 2, 3 & 6-23)	--
1	107369	-----	LEVER WINCH FREE SPOOL	1
2	-----	1976	PIN	1
3	-----	2356	COTTER PIN	1
4	1-512-010007-05	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
5	1-861-010034-09	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
6	1-654-010055-01	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2
7	1-512-010005-09	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
8	1-861-010032-14	1-861-010032-14	WASHER, FLAT 1/2	2
9	C2001	C2001	CYLINDER (ITEMS 10-23)	1
10	-----	1128	CAPSCREW49	4
11	-----	1272	REAR COVER PLATE	1
12	-----	1277	TUBE	1
13	-----	2388	PISTON ROD	1
14	-----	1271	FRONT COVER PLATE	1
15	-----	1723	NUT	4
16	-----	1274	BACK-UP-RING	2
17	-----	1275	O-RING	1
18	-----	1273	PISTON	1
19	-----	1276	O-RING	1
20	1974	1974	CLEVIS	1
21	-----	1224	NUT	1
22	2389	2389	BRACKET	1
23	-----	1766	LOCKWASHER	4
24	3-150-010186	3-150-010186	BUSHING WINCH REMOTE LEVER	1
25	-----	3109	O-RING KIT FOR CYLINDER	1

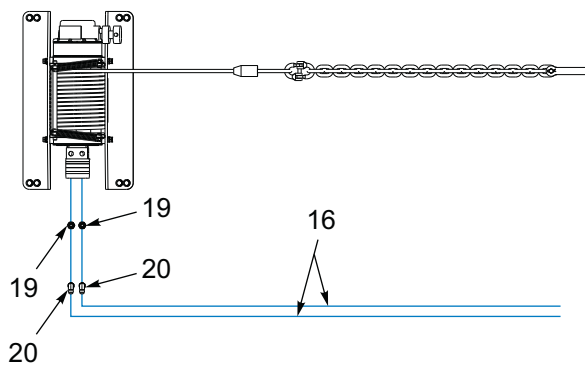
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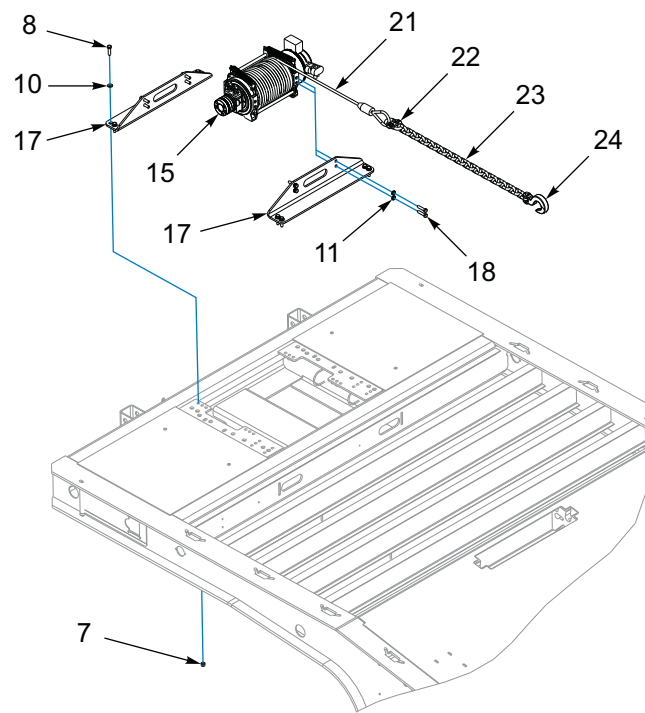
SWITCH LOCATIONS



AIR & ELECTRICAL SYSTEM



HYDRAULIC SYSTEM



GENERAL ASSEMBLY

Figure 1-80: Winch Installation, Warn 12K (OPTION)

Winch Installation, Warn 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196817	WINCH INSTL 12K WARN 900	--
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	2
2	1-297-010007-15	FITTING AIR 1/2 TUBE X 3/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	2
4	1-297-010015-09	FITTING,AIR,BR TEE 1/2T-1/4P	1
5	1-297-010020-02	FITTING,BRS PIPE,CL NIP 1/4	1
6	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	1
7	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
8	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
9	1-833-010003	TUBING NYLON 1/2 OD	20
10	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	8
11	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	8
12	108801	GLAD HAND-RED-AIR	1
13	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
14	135184	DECAL, WINCH FREE SPOOL	1
15	166421	WINCH 12M WARN W/LW&RMTC	1
16	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
17	196818	BRACKET FRONT 12K WARN	2
18	198996	SCREW M12-1.75X50 HCS8.8ZP FUL	8
19	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
20	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	2
21	3-155-010017-4	CABLE, 1/2 X 85' LENGTH	1
22	3-174-010038	CHAIN LINK CONNECTING 1/2	1
23	3-174-010039036	CHAIN 1/2X36" GRD 7 21LINKS	1
24	7HCGHT500	HOOK CLEVIS GRAB 1/2 GR70	1
25	905-54-107	BRAKE PROTECTION VALVE	1

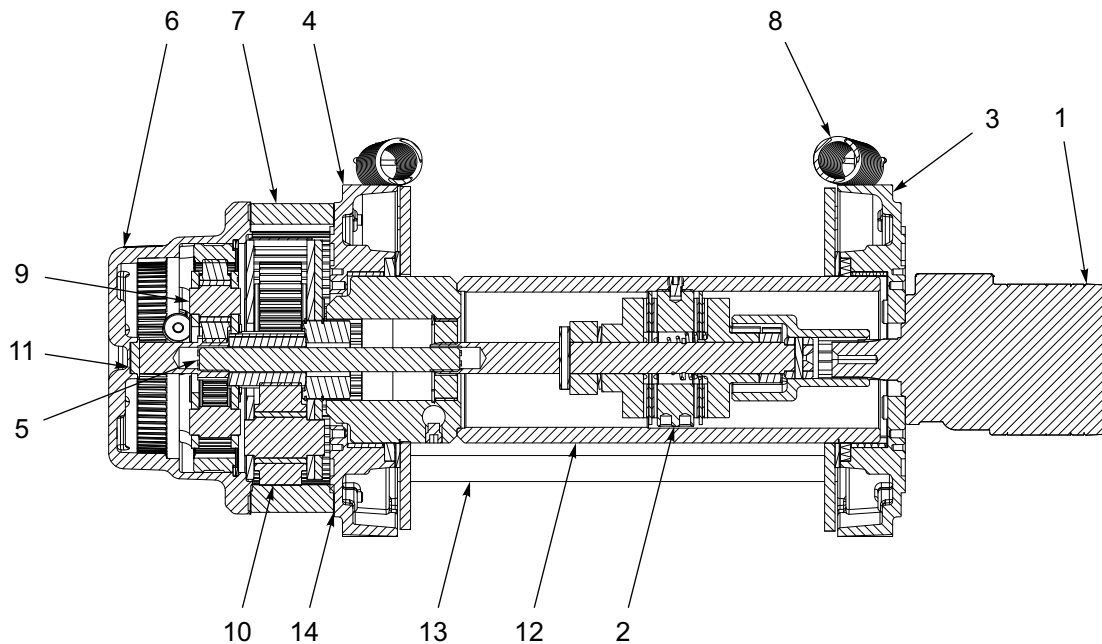


Figure 1-81: Winch Components, Warn 12K (OPTION)

Winch Components, Warn 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	166421	WINCH, 12M WARN W/LW & RMTC	--
1	194305	MOTOR HYD 5.0CL	1
2	194306	BRAKE ASSEMBLY	1
3	194307	DRUM SUPPORT, MOTOR	1
4	194308	DRUM SUPPORT, GEAR END	1
5	194309	DRIVE SHAFT, HEX	1
6	194310	END HSG ASSY AIR	1
7	194117	GEAR RING	1
8	194118	SPRING EXTENSION, TENSIONER	2
9	194119	CARRIER, STAGE 2 M12000	1
10	194120	CARRIER, STAGE 3 4340	1
11	194121	GEAR, 15T	1
12	194122	DRUM ASSEMBLY	1
13	194123	TIE ROD	3
14	194124	GASKET, RING GEAR	2

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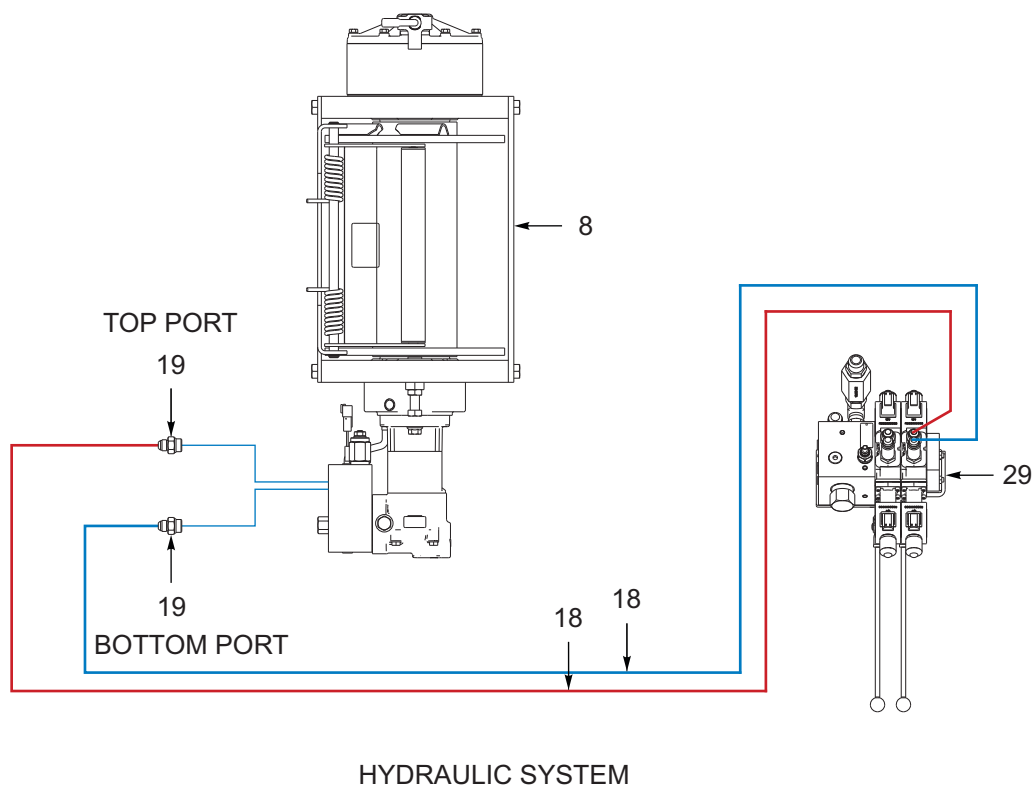
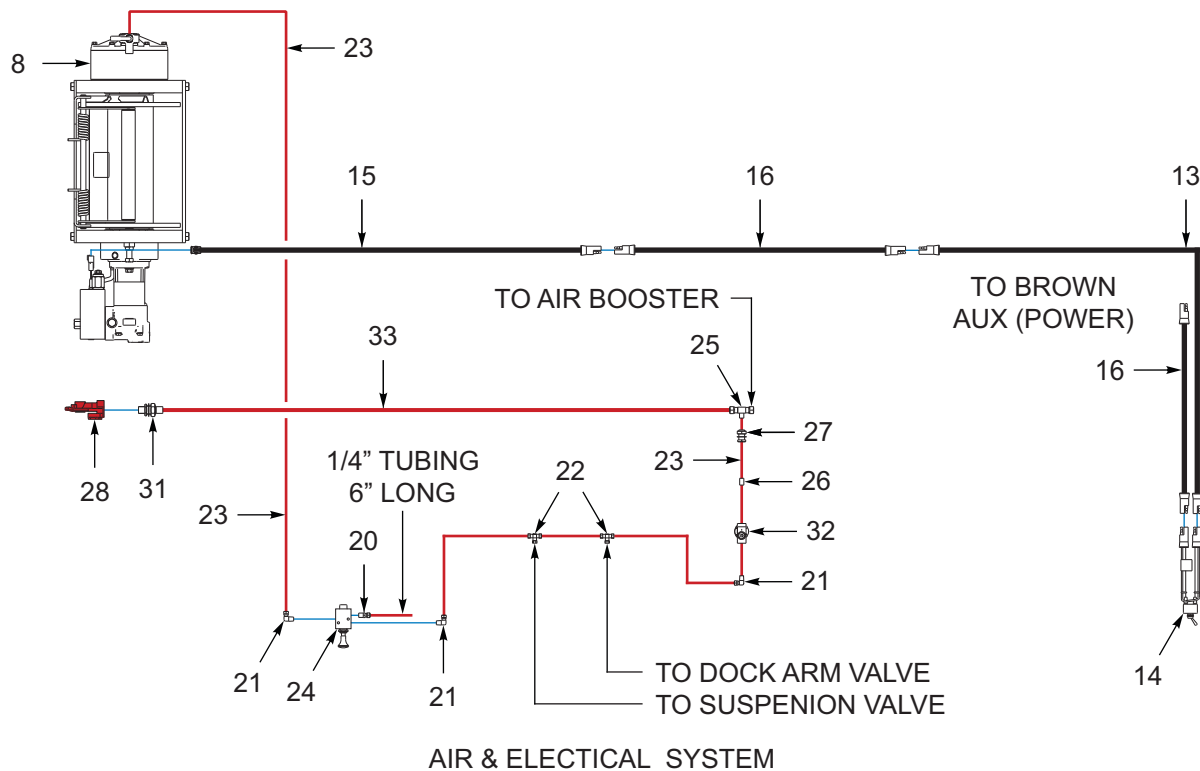
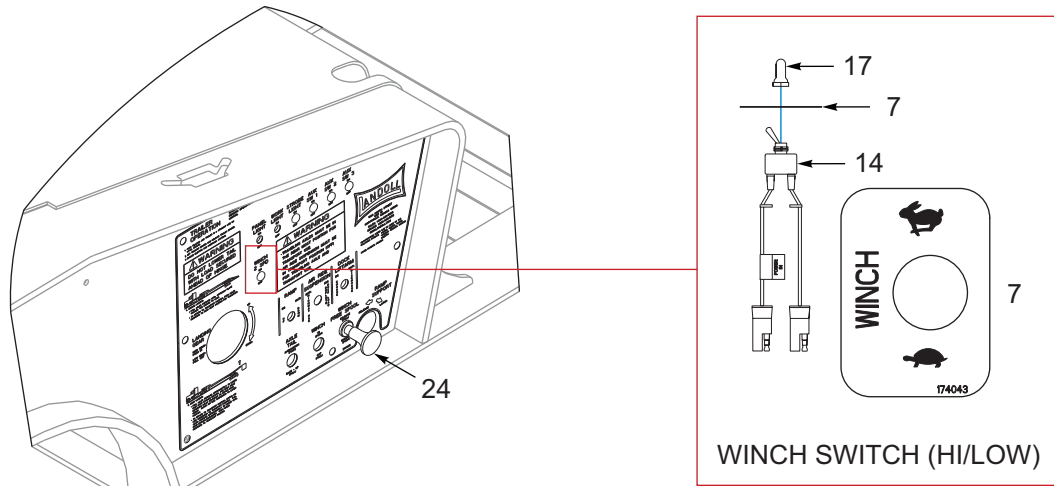
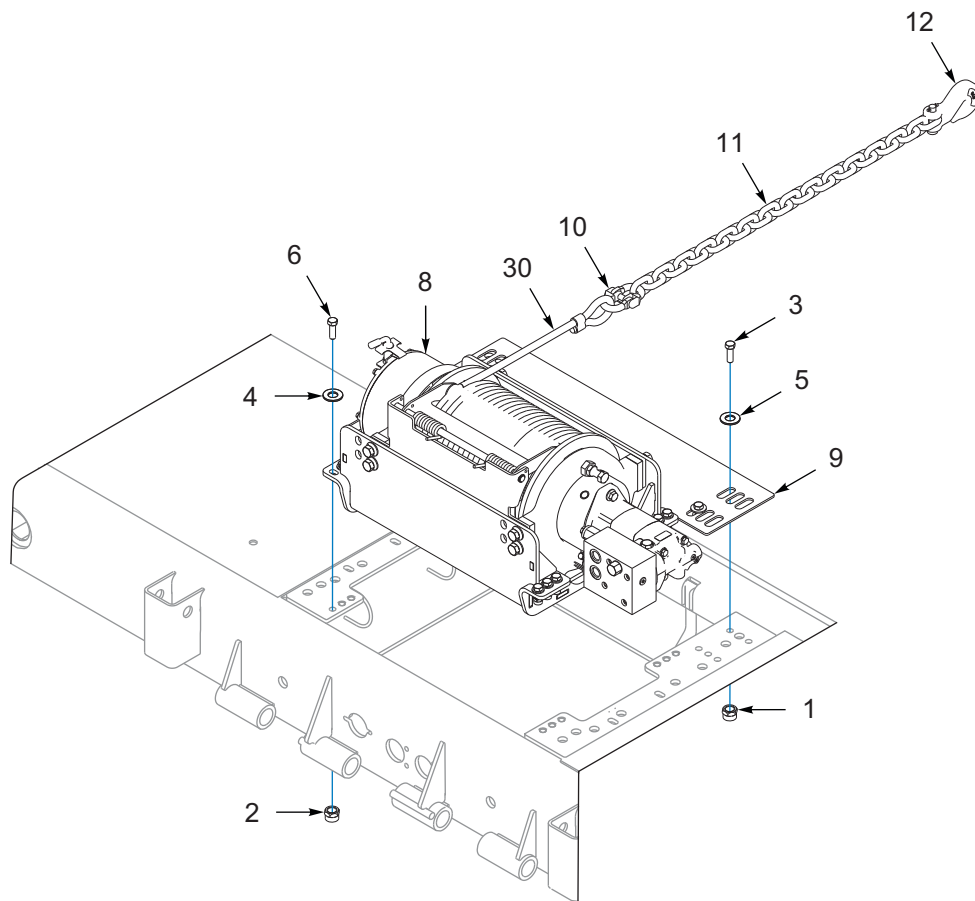


Figure 1-82: Winch Installation, Warn 20K, Speed (OPTION) (1 of 2)



SWITCH LOCATIONS



GENERAL ASSEMBLY
VIEW OF TRAILER FRONT

Figure 1-83: Winch Installation, Warn 20K, Speed (OPTION) (2 of 2)

Winch Installation, Warn 20K, 2 Speed (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY
	178382	WINCH INSTL 20K WARN 2SP 900HD (HEAVY DUTY)	--
	178383	WINCH INSTL 20KWARN 2SP 900STD (STANDARD DUTY)	--
1	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	4
2	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
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	12
5	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
6	108439	SCREW HX CP 1/2-13UNCX1-1/2G8	12
7	174043	DECAL, WINCH, HI/LO	1
8	174553	WINCH ASSY WARN 20K	1
9	204160	PLATE, WINCH TRIM REAR WINCH	1
10	3-174-010038	CHAIN LINK CONNECTING 1/2	1
11	3-174-010039036	CHAIN 1/2X36" GRD 7 21LINKS	1
12	7HCGHT500	HOOK CLEVIS GRAB 1/2 GR70	1
13	150111	HARNESS 300 IN MALE.FEMALE	1
14	150117	SWITCH ASSY LIGHT GROTE	1
15	164053	HARNESS,102"BRANCH,WORK LIGHT	1
16	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2
17	81264	RUBBER BOOT FOR ELECT SWITCH	1
18	174188	HOSE ASSY 1/2X182 SAE37 STR90 (STANDARD DUTY)	2
18	1-397-010302220	HOSE ASSY,1/2X220,SAE37,STR90 (HEAVY DUTY)	2
19	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
20	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
21	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
22	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	2
23	1-833-010001	TUBING NYLON 1/4 OD (BY THE FOOT)	34
24	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
25	1-297-010015-09	FITTING,AIR,BR TEE 1/2T-1/4P	1
26	1-297-010020-02	FITTING,BRS PIPE,CL NIP 1/4	1
27	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	1
28	108801	GLAD HAND-RED-AIR	1
29	194395	VALVE ASSY 2-SPOOL CONTROL (SEE PAGE 1-43)	1
30	3-155-010018-6	CABLE 5/8 W/LOOP 85FT	1
31	55B61	FRAME UNION	1
32	905-54-107	BRAKE PROTECTION VALVE	1
33	1-833-010003	TUBING NYLON 1/2 OD (BY THE FOOT)	--

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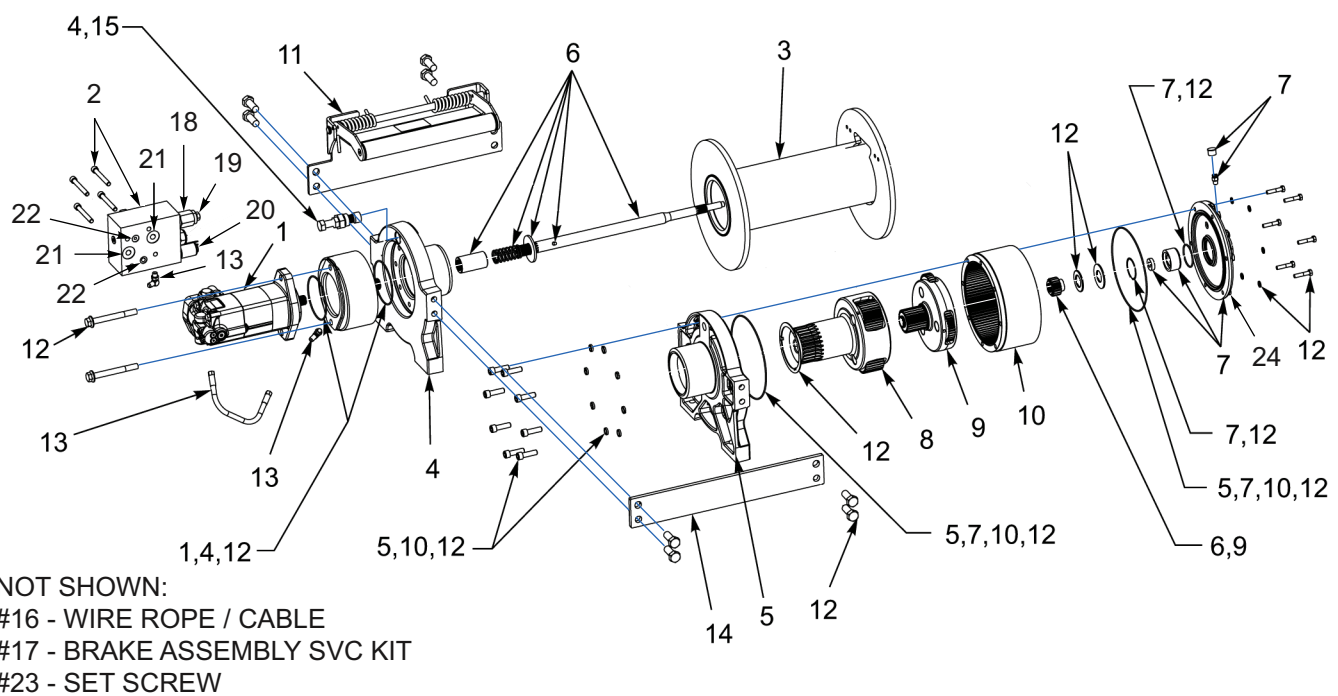


Figure 1-84: Winch Components, Warn 20K, 2 Speed (OPTION)

Winch Components, Warn 20K, 2 Speed (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	167521	WINCH, 20K WARN 2 SPEED	--
1	178718	MOTOR-HYD 11.9 CIR 2K STD	1
2	178715	SVC KIT-MANIFOLD-HYD	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	162220	WIRE ROPE ASSY 9/16X245' (NOT SHOWN)	1
17	162207	SVC KIT - BRAKE ASSEMBLY (NOT SHOWN)	1
18	199104	SOLENOID COIL 12V 2SP WARN	1
19	201642	SOLENOID CARTRIDGE VALVE 2SP	1
20	201643	OVERCENTER VALVE	1
21	201644	O-RING	2
22	201645	O-RING	2
23	201650	SET SCREW 3/8"X1/5" HEX SOCKET (NOT SHOWN)	2
24	225976	MANUAL FREESPOOL CLUTCH WARN (END CAP, MANUAL FREE SPOOL CLUTCH)	1

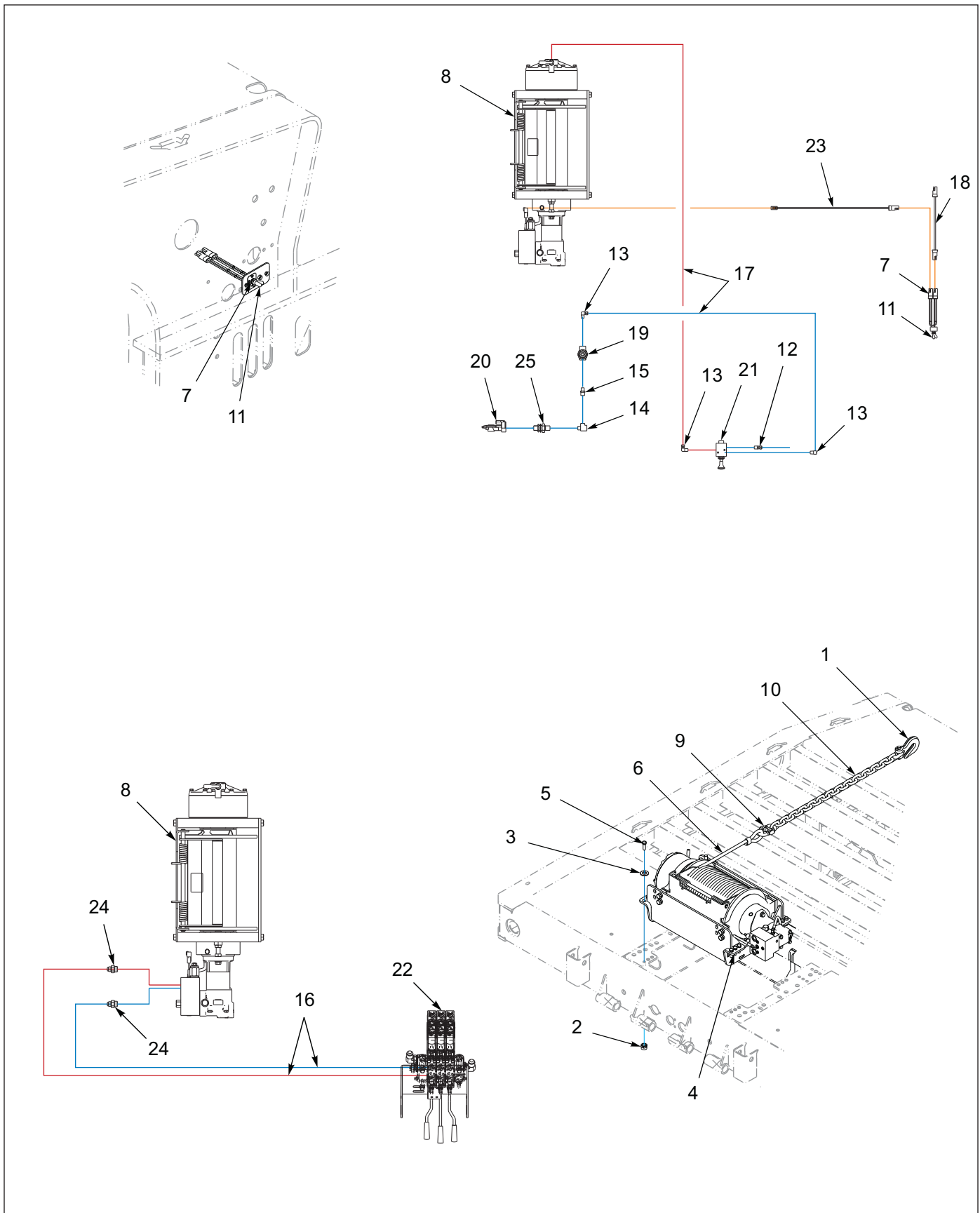


Figure 1-85: Winch Installation, Warn 30K, 2 Speed (OPTION)

Winch Installation, Warn 30K, 2 Speed (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	172878	WINCH INSTL 30K WARN 2 SPD AIR	--
1	1-382-010035-06	HOOK,CLEVIS GRAB 5/8 GRD80	1
2	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
3	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
4	116378	SPACER, WINCH	8
5	122726	SCREW HX CP 1/2-13UNCX3-3/4G8	12
6	132833	CABLE ASSY 5/8X85FLEX-X9	1
7	150117	SWITCH ASSY LIGHT GROTE	1
8	174552	WINCH ASSY WARN 30K	1
9	3-174-010059	CHAIN LINK CONNECTING 5/8	1
10	3-174-010060036	CHAIN 5/8X36IN GRADE 80	1
11	81264	RUBBER BOOT FOR ELECT SWITCH	1
12	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
13	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
14	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	1
15	1-297-010019-05	FITTING,BRS PIPE,HX 3/8X1/4	1
16	1-397-010302220	HOSE ASSY,1/2X220,SAE37,STR90 (HD TRAILER)	2
16	101014	HOSE ASSY,1/2X248,SAE37,STR90 (120HD TRAILER)	2
16	174188	HOSE ASSY 1/2X182 SAE37 STR90 (STD TRAILER)	2
17	1-833-010001	TUBING NYLON 1/4 OD (BY THE FOOT)	--
18	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	1
19	905-54-107	BRAKE PROTECTION VALVE	1
20	108801	GLAD HAND-RED-AIR	1
21	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
22	139525	VALVE ASSY 3-SPOOL 400	1
23	164053	HARNESS,102"BRANCH,WORK LIGHT	1
24	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
25	55B61	FRAME UNION	1

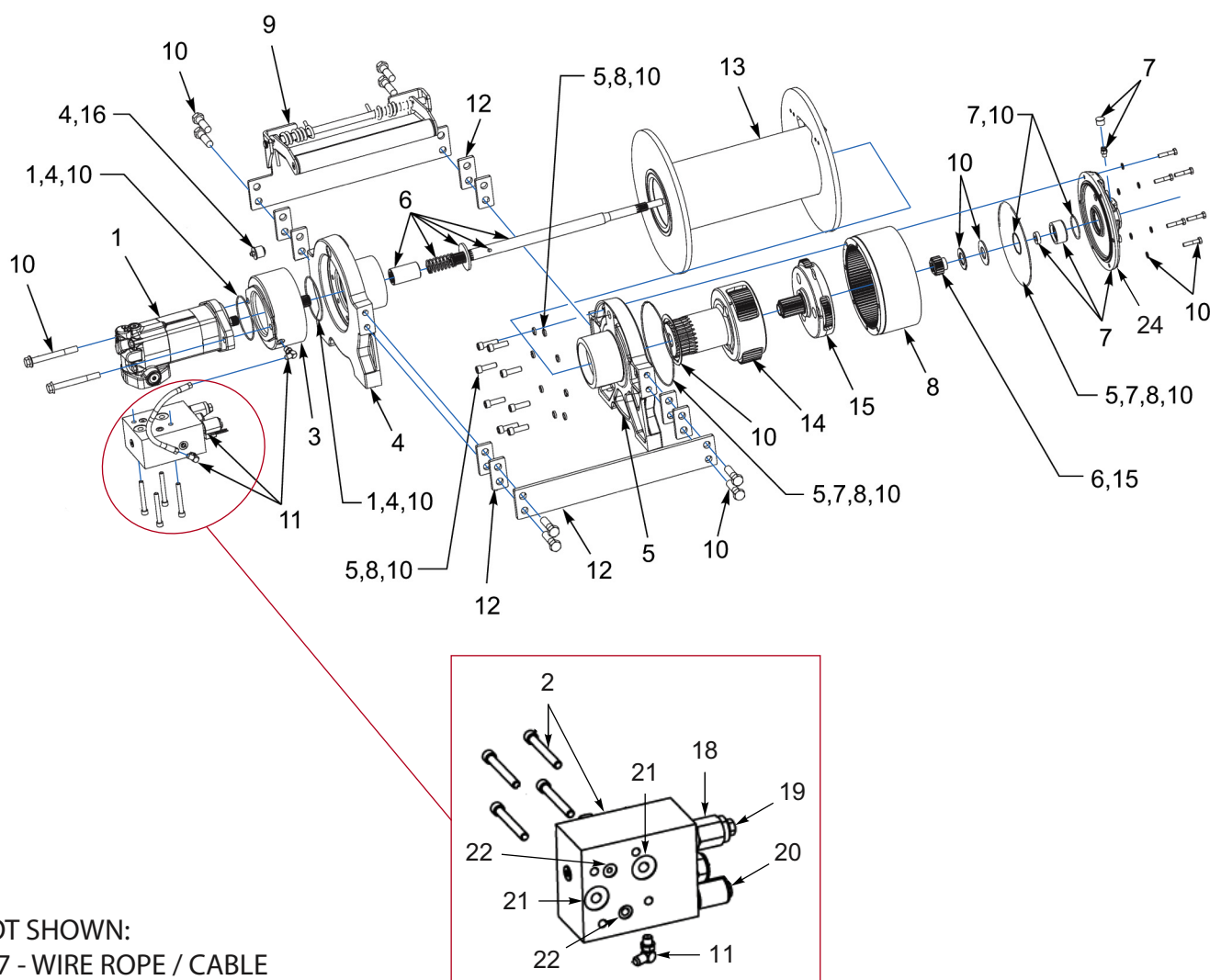


Figure 1-86: Winch Components, Warn 30K, 2 Speed (OPTION)

Winch Components, Warn 30K, 2 Speed (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	172877	WINCH 30K WARN 2 SPD AIR	--
1	178714	SVC KIT-MOTOR-HYD	1
2	178715	SVC KIT-MANIFOLD-HYD	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	162945	WIRE ROPE ASSY-5/8 EIP SX245' (NOT SHOWN)	1
18	199104	SOLENOID COIL 12V 2SP WARN	1
19	201642	SOLENOID CARTRIDGE VALVE 2SP	1
20	201643	OVERCENTER VALVE	1
21	201644	O-RING	1
22	201645	O-RING	2
23	201650	SET SCREW 3/8"X1/5" HEX SOCKET (NOT SHOWN)	2
24	225976	MANUAL FREESPOOL CLUTCH WARN (END CAP, MANUAL FREE SPOOL CLUTCH)	1

Landing Gear

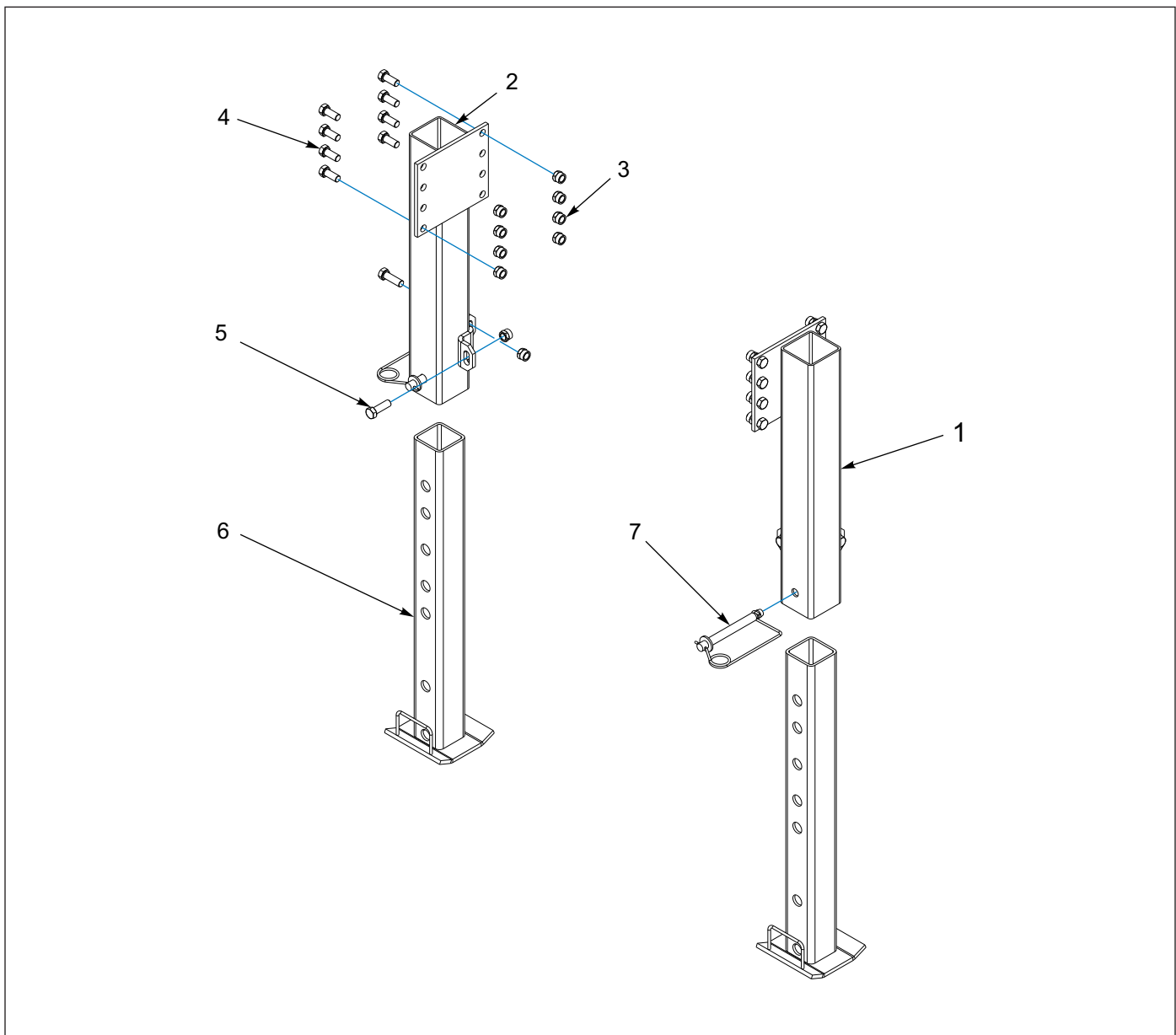


Figure 1-87: “Bolt On” Park Stand

“Bolt On” Park Stand

ITEM	PART NUMBER	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	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	20
4	1-654-010059-03	SCREW 5/8-11UNCX1-1/2 HXCP G5	16
5	1-654-010059-05	SCREW,HEX CAP,5/8-11UNCX2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WLDMT	2
7	346SL	LOCK HITCH PIN	2

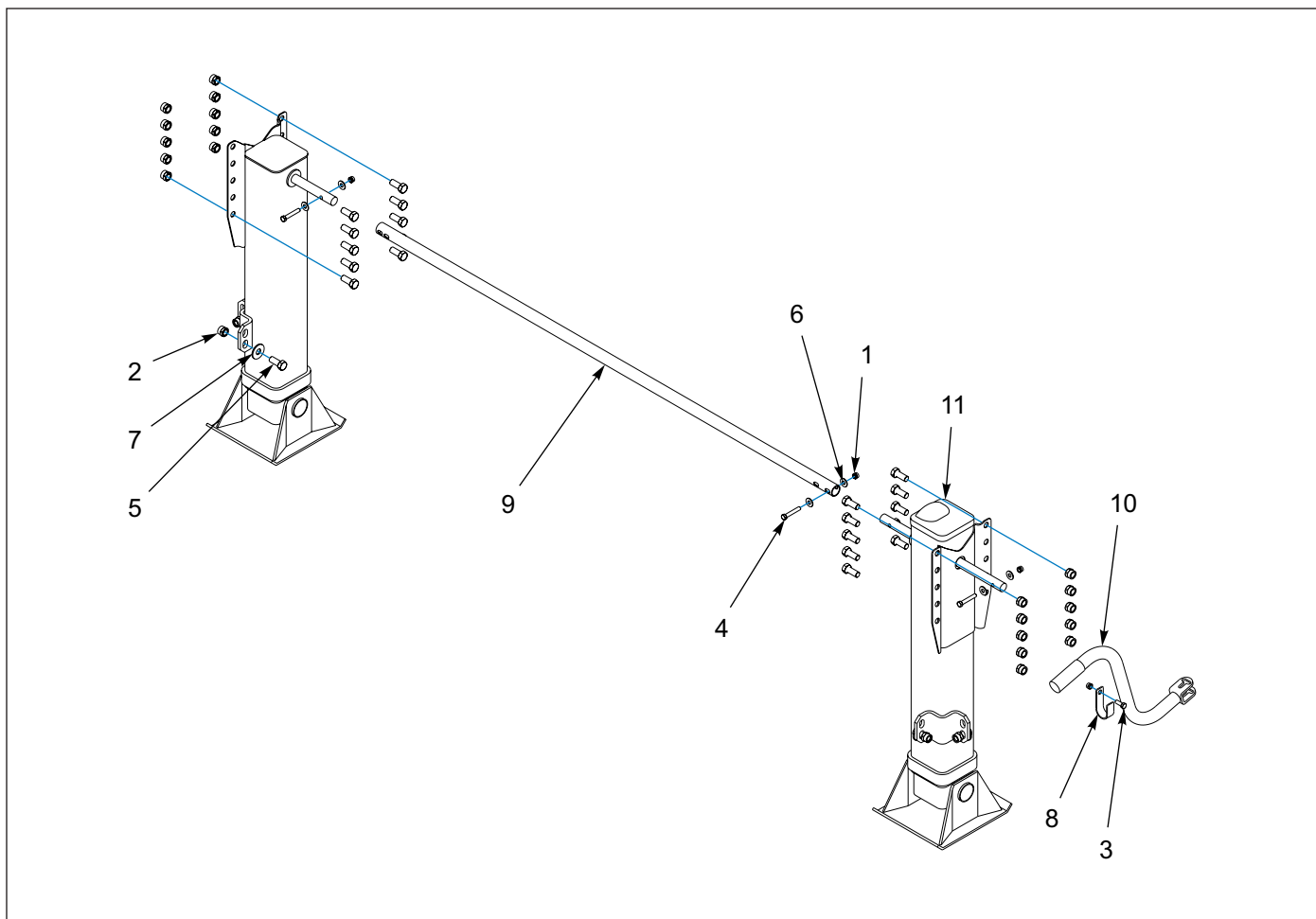


Figure 1-88: Jost 410

Jost 410

ITEM	PART NUMBER	DESCRIPTION	QTY.
	117558	LANDING GEAR INSTALLATION	--
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
3	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
4	1-654-010051-10	SCREW, HEX HEAD CAP 3/8-16 X 2-1/4 GR5	3
5	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	24
6	1-861-010032-11	WASHER, FLAT 3/8W	6
7	1-861-010032-19	WASHER, FLAT 5/8W	4
8	117559	CLIP, LANDING GEAR HANDLE	1
9	117561	CROSS-SHAFT LANDING GEAR	1
10	119949	HANDLE, CRANK 2 SPEED LANDING GEAR	1
11	139256	LANDING GEAR WELDMENT 2 SPEED	1

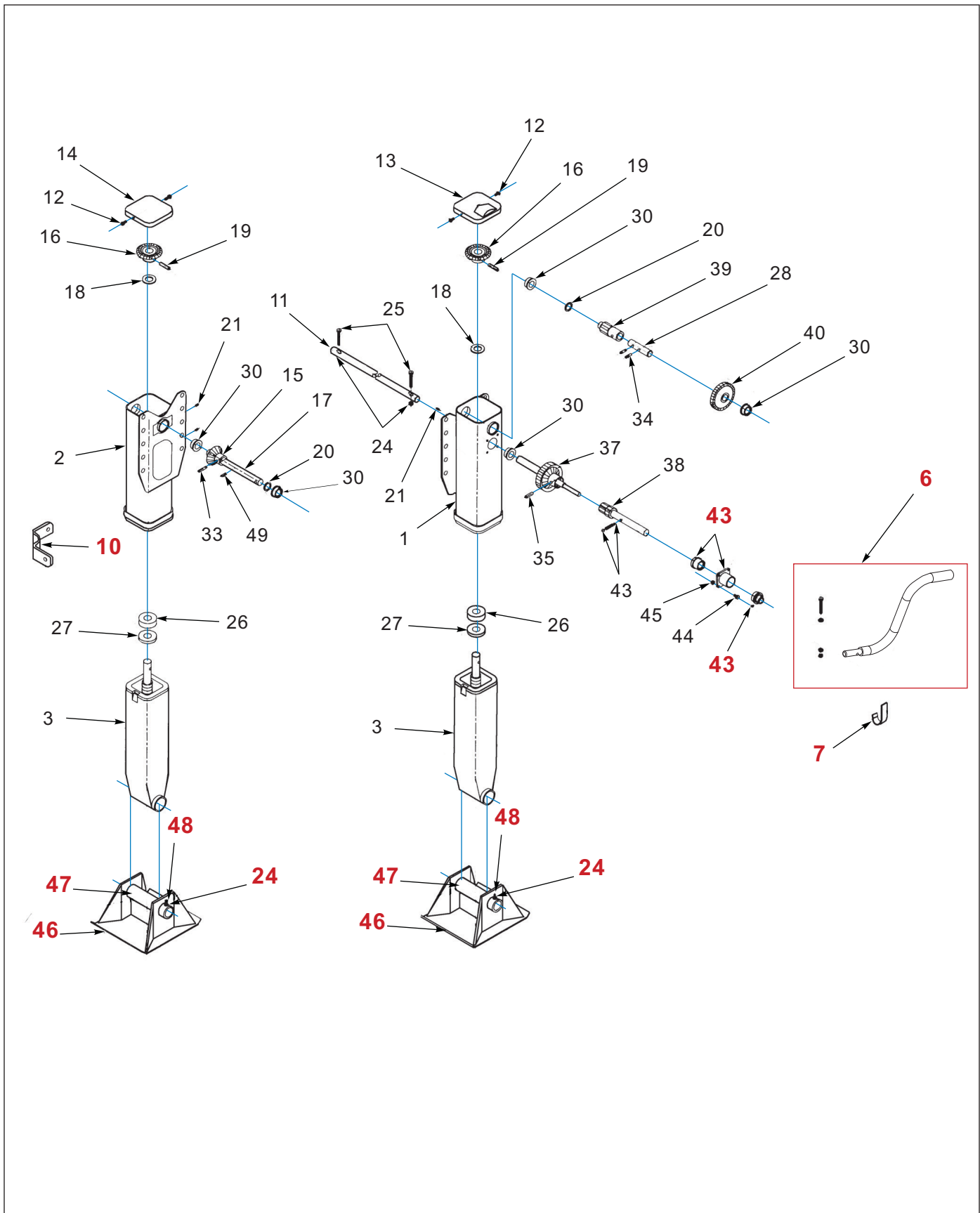


Figure 1-89: Jost #A401T19

Jost #A401T19

ITEM	PART NUMBER	DESCRIPTION	QTY.
	116800	LANDING GEAR JOST #A401T19	--
1	-----	OUTER HOUSING - 2 SPEED	1
2	-----	OUTER HOUSING - 1 SPEED	1
3	-----	INNER LEG ASSEMBLY - STANDARD	2
6	109161	CRANK 930 MODIFICATION	1
7	109711	CRANK HANGER	1
10	109712	BRACE LUG - W	2
11	-----	INTERMEDIATE CROSS SHAFT	1
12	-----	COVER SCREW	4
13	-----	COVER - 2 SPEED	1
14	-----	COVER - 1 SPEED	1
15	-----	PINION GEAR	1
16	-----	BEVEL GEAR	2
17	-----	PINION SHAFT - 1 SPEED	1
18	-----	THRUST WASHER	2
19	-----	GROOVED PIN	2
20	-----	SPACER WASHER	2
21	-----	GREASE FITTING	4
23	-----	STRUT BRACE (NOT SHOWN)	4
24	A10038.7	SELF LOCKING NUT	2
25	-----	CROSS SHAFT BOLT - 3/8 X 2 GR5	2
26	-----	THRUST BEARING	2
27	-----	COLLAR	2
28	-----	OUTPUT SHAFT	1
30	-----	BUSHING	5
33	-----	ROLL PIN 3/8 X 1-1/2	1
34	-----	SPIRAL PIN	2
35	-----	ROLL PIN - 3/8 X 1-3/4	1
36	-----	OUTPUT CLUSTER SHAFT	1
37	-----	OUTPUT CLUSTER GEAR	1
38	-----	INPUT GEAR SHAFT	1
39	-----	OUTPUT SPUR GEAR	1
40	-----	INPUT SPUR GEAR	1
43	163502	SHIFT HOUSING SERVICE KIT	1
44	-----	SHIFT HOUSING BOLT	4
45	-----	SELF LOCKING NUT	4
46	C10256	SHOE - 10 X 10 X 4-1/2	2
47	114983	SHOE AXLE	2
48	A10037.3	HEX HEAD BOLT	2
49	-----	ROLL PIN - 1/4 X 1-1/4	1
50	137974	RH LANDING LEG ASSEMBLY (NOT SHOWN)	1
50	225284	LH LANDING LEG ASSEMBLY (NOT SHOWN) (NON GEAR)	1

Bulkheads - Options

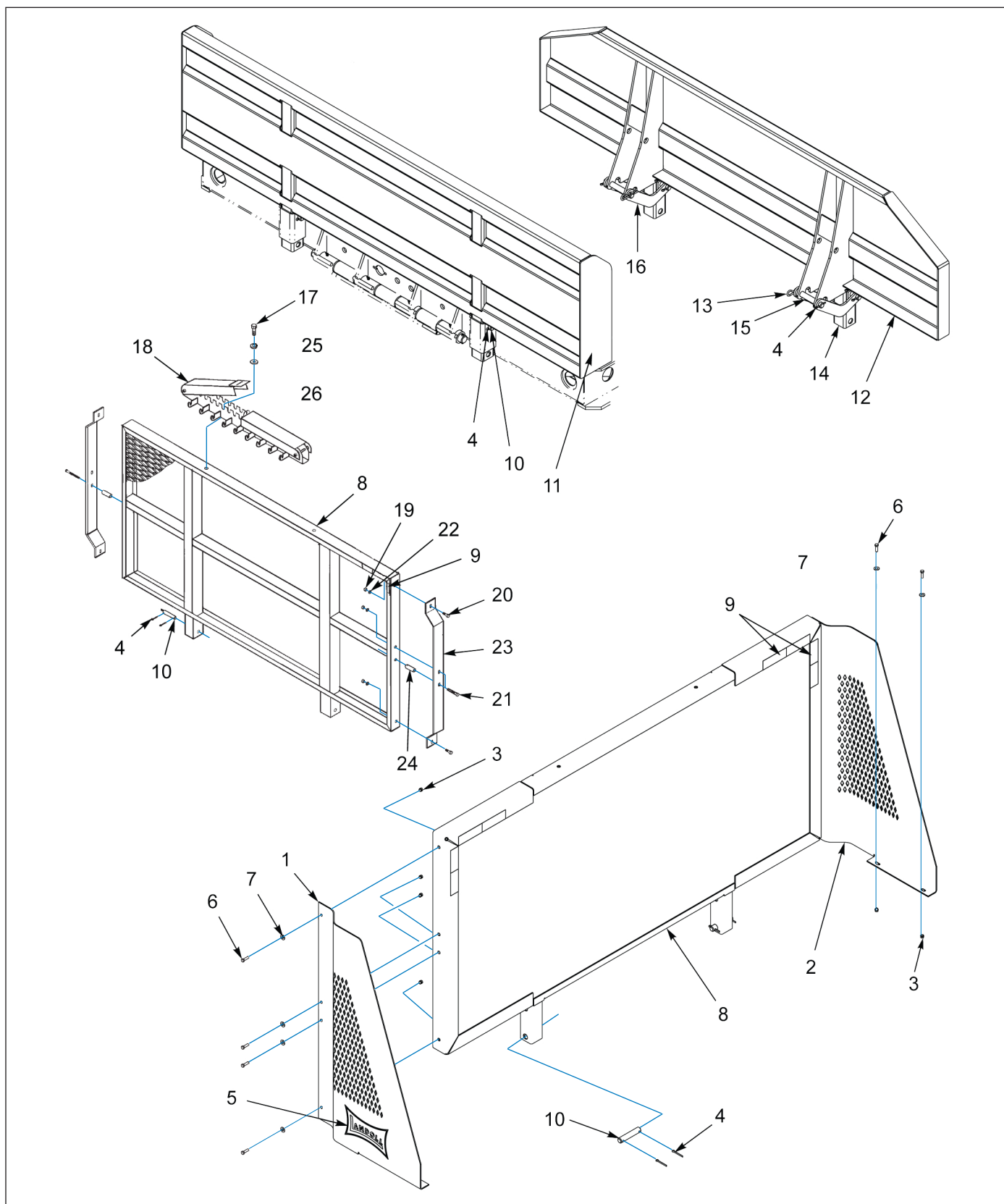


Figure 1-90: Bulkhead Assembly

Bulkhead Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	128414	BULKHEAD INSTALLATION, 400 (ITEMS 1-10)	--	
	134616	BULKHEAD INSTALLATION 26 X 102 (ITEMS 4, 9-11)	--	
	136848	EXTENSION INSTALLATION 16/24 (ITEMS 4 & 12-16)	--	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION (ITEMS 6-7 & 17-18)	--	
	3-141-010121-21	BULKHEAD INSTALLATION (ITEMS 4, 8-10 & 19-24, REF. ONLY)	--	
	130895	BULKHEAD INSTALLATION, SPECIAL (ITEMS 1-10)	--	
	216921	ACCESSORY RACK INSTALLATION 48 X 51-1/2	--	--
1	128137	EXTENSION, BULKHEAD ALUM LH	1	--
1	128153	EXTENSION, BULKHEAD LH	1	--
2	128138	EXTENSION, BULKHEAD ALUM RH	1	--
2	128152	EXTENSION, BULKHEAD RH	1	--
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	12	--
4	1-557-010362-63	COTTER PIN 1/4 X 2	4	4
5	153754	DECAL, BOW TIE BLACK (SEE PAGE 1-3)	2	--
5	153755	DECAL, BOW TIE WHITE (SEE PAGE 1-3)	2	--
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12	--
7	1-861-010032-11	WASHER, FLAT 3/8	12	--
8	3-141-010155	BULKHEAD WELDMENT 48 X 96	1	--
8	130896	BULKHEAD WELDMENT, SPECIAL (USED W/ 130895)	1	--
9	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE (BY THE FOOT	--	--
10	6-557-010163	PIN HITCH LEVEL LINK	2	3
11	134608	BULKHEAD WELDMENT 26 X 102	1	--
12	136849	BULKHEAD WELDMENT 16/24 X 102 2 POS	1	--
13	1-557-010014	PIN, HAIR 1/4	2	--
14	3-482-010249	MOUNT WELDMENT BULKHEAD	2	--
15	3-557-010380	PIN	6	--
16	3-755-010080	SUPPORT WELDMENT, BULKHEAD	2	--
17	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2	--
18	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	1	--
19	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6	--
20	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4	--
21	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2	--
22	1-861-010032-15	WASHER, FLAT 1/2W	6	--
23	3-054-010101	BAR, SIDE 48" BULKHEAD 102"	2	--
24	3-711-010025	SPACER, 48" BULKHEAD	2	--
25	216920	ACC. RACK WLDMT 48 X 51-1/2	--	1

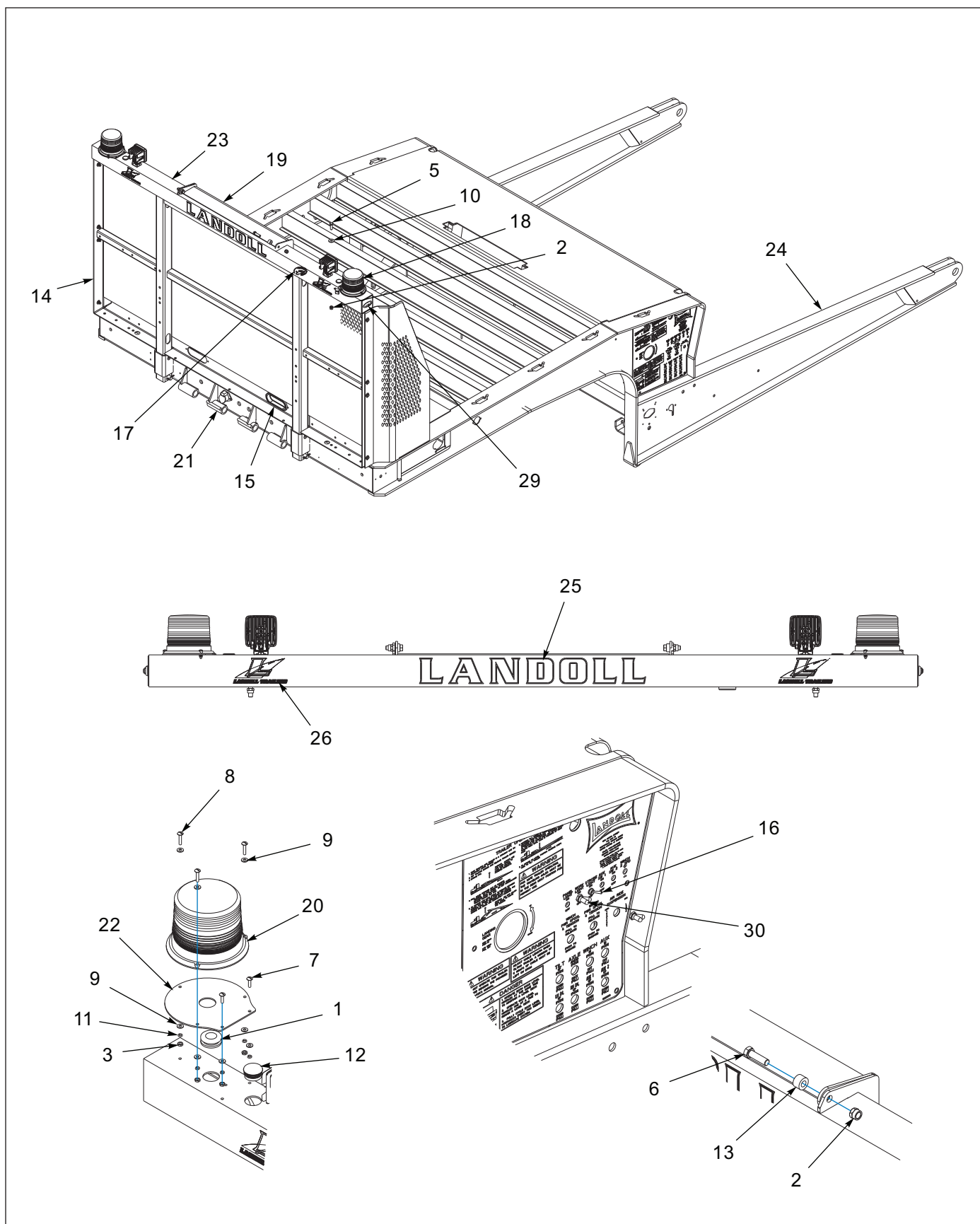


Figure 1-91: Chain Rack Lights General Assembly

Chain Rack Lights General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	214407	BLKHD CHN RK S/T/T WL	--
	214408	BLKHD CHN RK S/T/T WL HD	--
	214409	BLKHD CHN RK S/T/T W/BCN	--
	214410	BLKHD CHN RK S/T/T W/BCN HD	--
	214411	BLKHD CHN RK S/T/T ONLY	--
	214412	BLKHD CHN RK S/T/T W/BCN ELE	--
	218129	BLKHD CHN RK S/T/T/BCN	
1	1-343-010006	GROMMET	2
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
3	1-512-010007-03	NUT, HEX 10-24 GR2 ZP	10
4	1-578-010015-04	PLUG, PLASTIC PANEL 7/8 (NOT SHOWN)	--
5	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2
6	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
7	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
8	1-656-010003053	SCREW RD HD MACH 10-24X1	6
9	1-861-010032-03	WASHER, FLAT #10 ZP/CD	16
10	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2
11	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	10
12	116324	PLUG,PLAST PANEL1-5/16&1-7/16	2
13	125799	SPACER, 1 OD X 1/2 ID X .632	2
14	-----	BULKHEAD INSTL 400	--
15	143114	GROMMET OVAL GROTE	1
16	150117	SWITCH ASSY LIGHT GROTE	1
17	153102	GROMMET MOUNT 2-5/16" GROTE	1
18	163996	LIGHT,12V SQUARE LED FLOOD	2
19	167975	LID WLDMT CHAIN BINDER	1
20	184501	STROBE LIGHT DEUTSCH CONN	2
21	186901	GOOSENECK WLDMT, US 400	--
22	191545	PLATE BEACON MOUNTING	2
23	191811	TUBE WLDMT BHD TOPPER 3/4DIA	1
24	191872	GOOSENECK WLDMT 400A HD	--
25	193456	DECAL LANDOLL 28-5/16 X 3-7/32	1
26	196165	DECAL HIGHWAY L	2
27	213295	LIGHT CLEAR LENS S/T/T (NOT SHOWN)	6
28	213296	FLANGE CHROME FLAT OBLONG (NOT SHOWN)	6
29	213297	LIGHT YEL CLEAR LENS MKR	2
30	81264	RUBBER BOOT FOR ELECT SWITCH	2

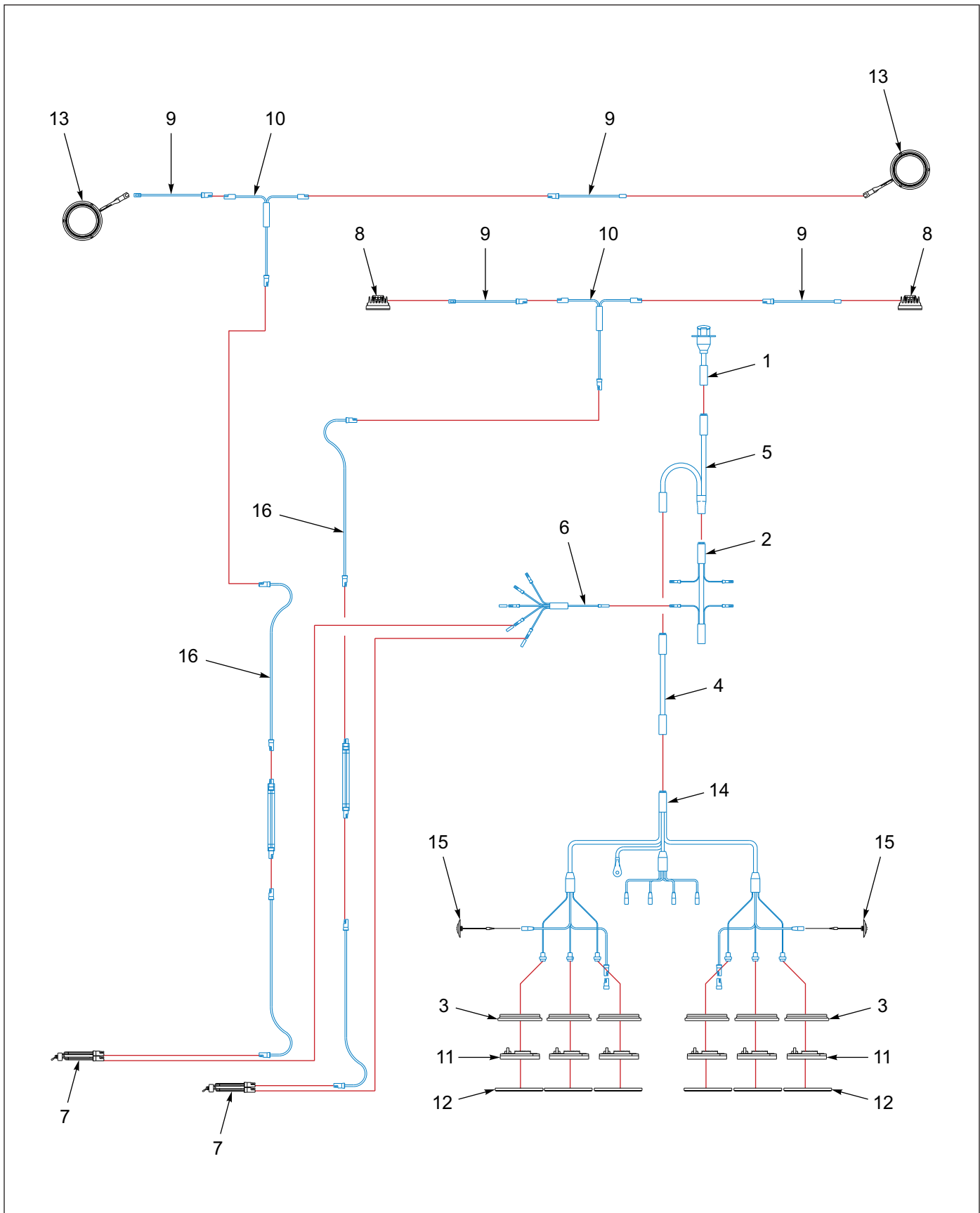


Figure 1-92: Chain Rack Lights Electrical System

Chain Rack Lights General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	191808	BULKHEAD CHAIN RACK S/T/T WL	--
	191809	BULKHEAD CHAINRACK S/T/T WL BC	--
1	143100	HARNESS 7WAY RECP GROTE	1
2	143101	HARNESS FRONT MAIN GROTE	1
3	143114	GROMMET OVAL GROTE	6
4	143166	HARNESS EXT 48IN GROTE (USED ON 12' TAIL)	1
4	143167	HARNESS EXT 84 IN GROTE (USED ON 14' & 15' TAIL)	1
5	146929	HARNESS Y SPLITTER GROTE	1
6	150093	HARNESS 5 AUX BRANCHES GROTE	1
7	150117	SWITCH ASSY LIGHT GROTE (191808, REQ 1 EACH) (191809, REQ 2 EACH)	--
8	163996	LIGHT,12V SQUARE LED FLOOD	2
9	164052	HARNESS,60"BRANCH,WORK LIGHT (191808, REQ 2 EACH) (191809, REQ 4 EACH)	--
10	169853	HARNESS T PWR BRANCH (191808, REQ 1 EACH) (191809, REQ 2 EACH)	--
11	179902	LIGHT S/T/T RED CLEAR LENS GRT	6
12	180570	COVER CHROME OBLONG GROMMET	6
13	184501	STROBE LIGHT DEUTSCH CONN (191809 ONLY)	2
14	187859	HARNESS BUMPER MICRONOVA GROTE	1
15	187863	LIGHT YEL LED.75CL/MK CLEAR CB	2
16	3-368-010252	HARNESS ASSY BKHD LIGHT EXT (191808, REQ 2 EACH) (191809, REQ 4 EACH)	--

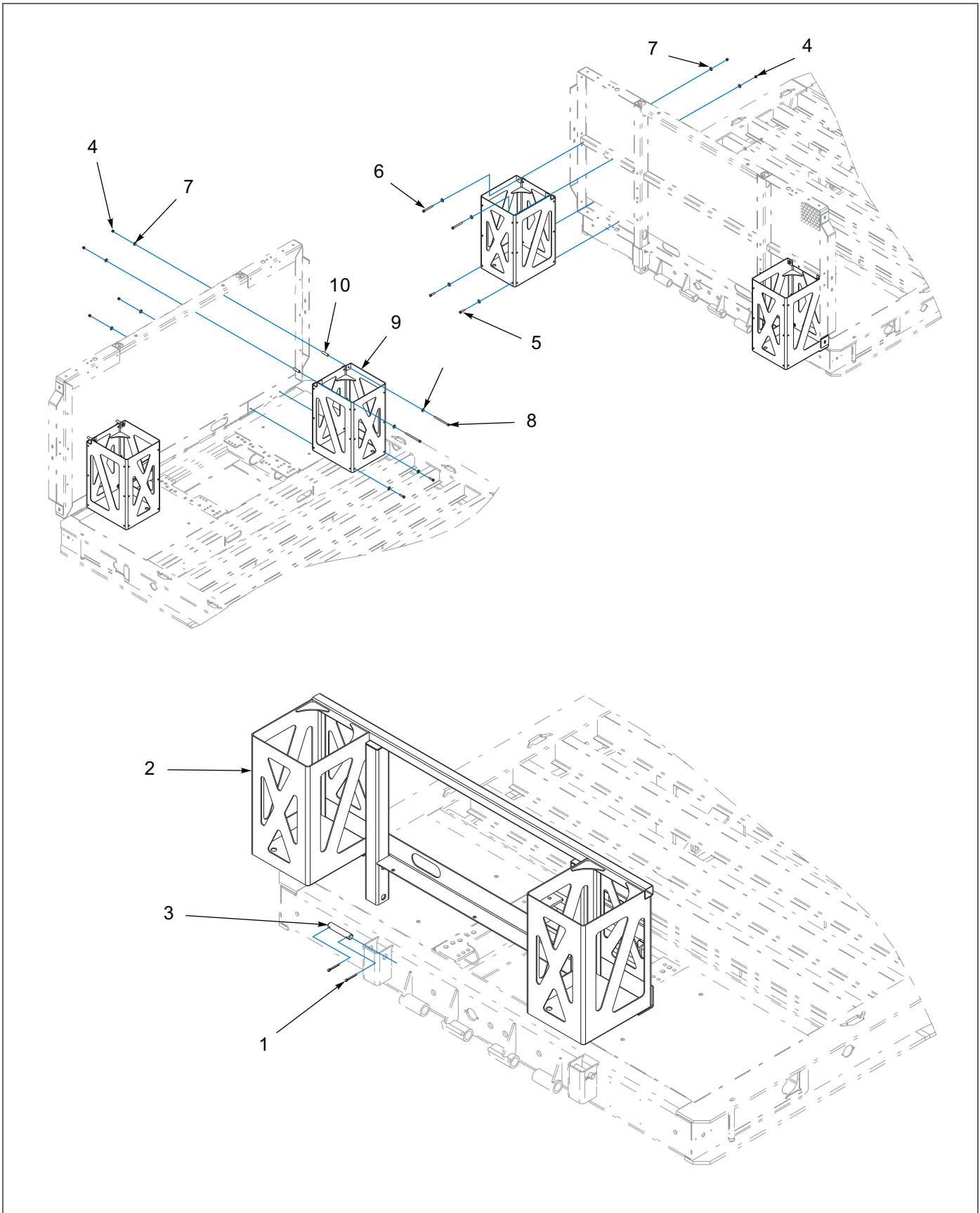


Figure 1-93: Propane Rack Mount Installation

Propane Rack Mount Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	204075	PROPANE TANK BRACKET BOLT-ON	--		
	204095	PROPANE TANK BRACKET, FRONT MNT		--	
	204096	PROPANE TANK BRACKET, REAR MNT			--
1	1-557-010362-63	PIN COTTER, 1/4 X 2	4	--	--
2	204076	PROPANE TANK HOLDER WELDMENT	1	--	--
3	6-557-010163	PIN HITCH LEVELING LINK	2	--	--
4	1-512-010005-05	NUT, HEX, SLFLKG, 3/9-16 UNC, GRB	--	4	4
5	1-654-010051-07	SCREW, HEX, 3/8-16UNCX1-1/2, GR5	--	2	2
6	1-654-010051-15	SCREW, HEX, 3/8-16UNCX3-1/2, GR5	--	2	--
7	1-861-010032-11	WASHER, FLAT, ZP/CD, 3/8W	--	8	8
8	139603	SCREW, HEX CAP, 3/8-16 X 5-1/2 GR5	--	--	2
9	204089	PROPANE TANK HLDR WLDMT BLT-ON	--	1	1
10	204094	TUBE, ROUND, .5625 OD X .397 ID X 2.25	--	--	2

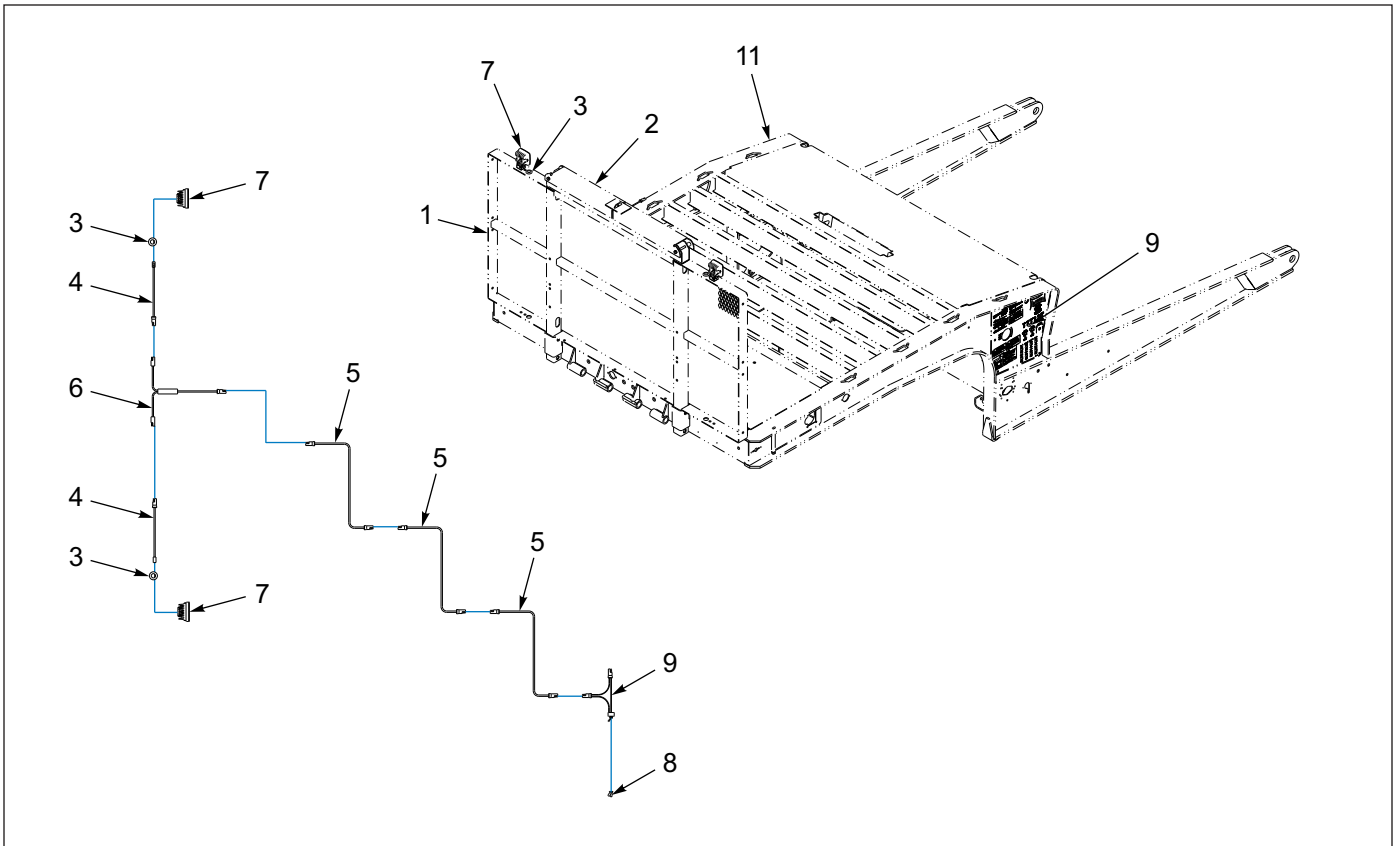


Figure 1-94: Work Light Installation

Work Light Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	191813	WORK LIGHT INSTL, BULKHEAD	--	
	191814	WORK LIGHT HD INSTL, BULKHEAD		--
1	3-141-010155	BULKHEAD WELDMENT	REF	REF
2	B7-141-003	CHAIN RACK INSTALLATION	REF	REF
3	1-343-010006	GROMMET	2	2
4	164052	HARNESS, 60" BRANCH WORK LIGHT	2	2
5	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	2	3
6	169853	HARNESS, JUMPER T-POWER	1	1
7	163996	LIGHT LED WHITE FLOOD LAMP	2	2
8	81264	RUBBER BOOT FOR ELECT SWITCH	1	1
9	150117	TOGGLE SWITCH SEALED SPST	1	1
10	1-822-010002	TRIM LOCK 3/16 (NOT SHOWN)	4	4

[illegible]

The diagram illustrates a cable network topology with the following components and connections:

- 8**: A small connector or plug at the top left.
- 4**: A T-junction or splitter at the top left, connected to component 8.
- 2**: Two points along the main black cable line, indicating connectors or joints.
- 3**: A small device or connector on the main black cable line.
- 6**: A blue multi-branching cable or splitter connected to component 3.
- 7**: Two sets of stacked rectangular components (likely modems or routers) connected to the main black cable line.
- 5**: Two sets of stacked rectangular components (likely modems or routers) connected to the blue branching cable (6).
- 1**: Two small circular components (likely antennas or sensors) connected to the blue branching cable (6).

Strobe Installation

F-1004-1022

[illegible]

Deck & Slope - Options

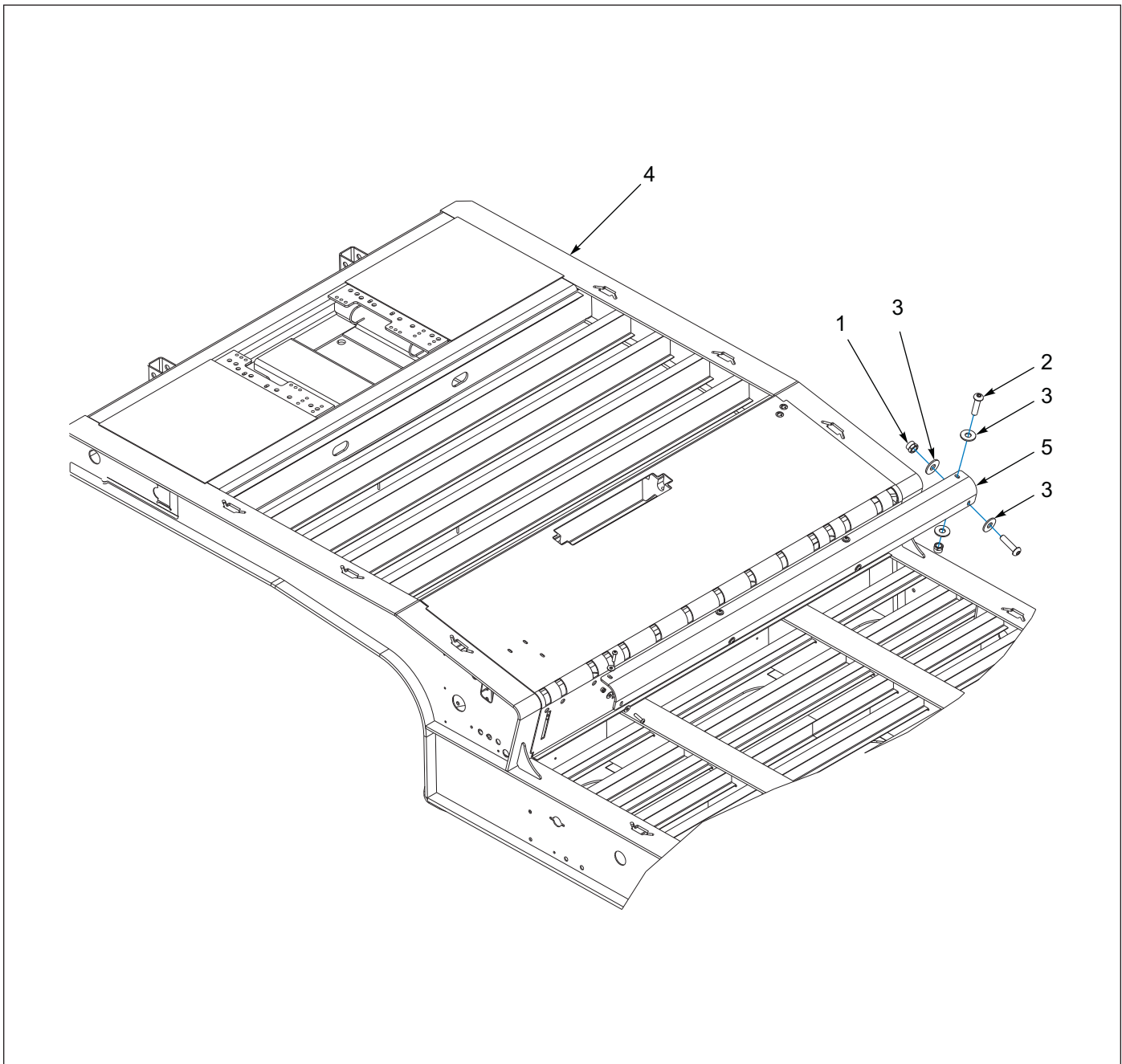


Figure 1-96: Fork Lift Plate Installation

Fork Lift Plate Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	141710	FORKLIFT BUMPER PLATE INSTALLATION	--
1	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	8
2	1-654-010089-13	SCREW, SKT BTN, CP 1/2-13 UNC X 2	8
3	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	16
4	139540	FRAME WELDMENT, 950B-45	--
5	141689	PLATE, FORKLIFT BUMPER, 930B	8

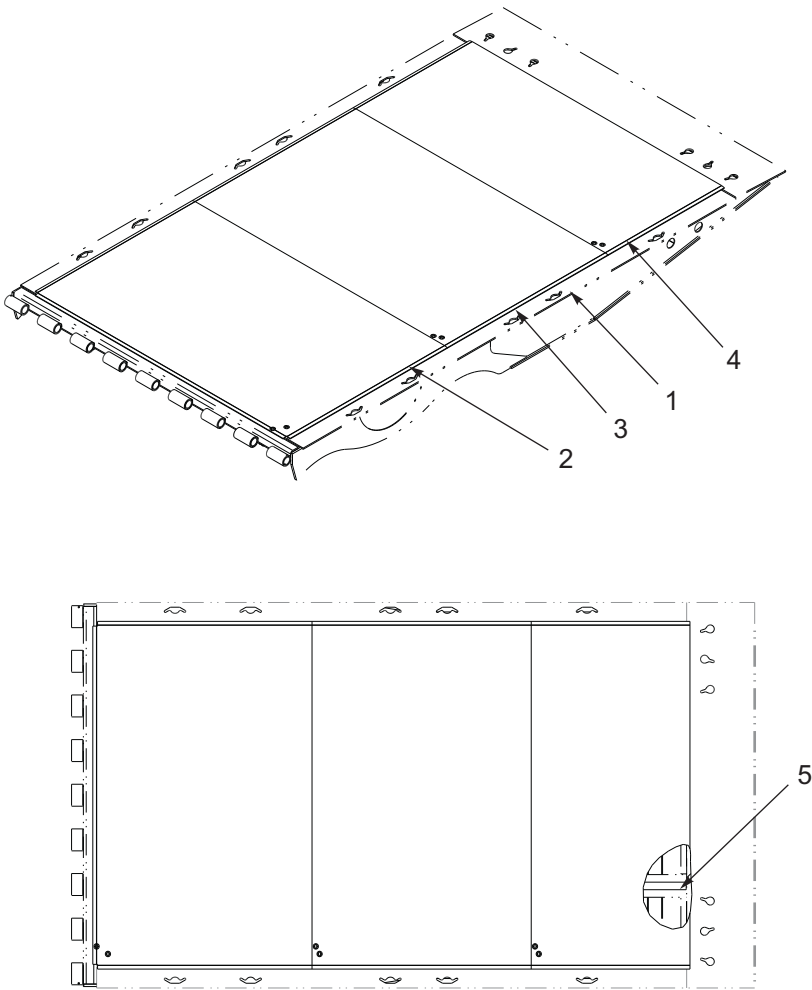


Figure 1-97: Deck Tread Grip/ Over Wood - 15' Tail

Deck Tread Grip/Over Wood - 15' Tail

ITEM	PART NUMBER	DESCRIPTION	QTY.
	117503	DECK TREAD GRIP/ OVER WOOD 15' TAIL	--
1	113427	TAIL WELDMENT, 15' WOOD DECK	1
2	117504	PLATE, TREAD GRIP 58 X 94-1/2 FRONT	1
3	117505	PLATE, TREAD GRIP 58 X 94-1/2	1
4	117506	PLATE, TREAD GRIP 42 X 94-1/2	1
5	117507	BAR, FLAT 1/4 X 2 X 156	2
6	130266	FIELD INSTALLATION KIT - DECK GRIP OVER WOOD 15' TAIL	--
7	134739	FIELD INSTALLATION KIT - DECK GRIP OVER WOOD 12' TAIL	--

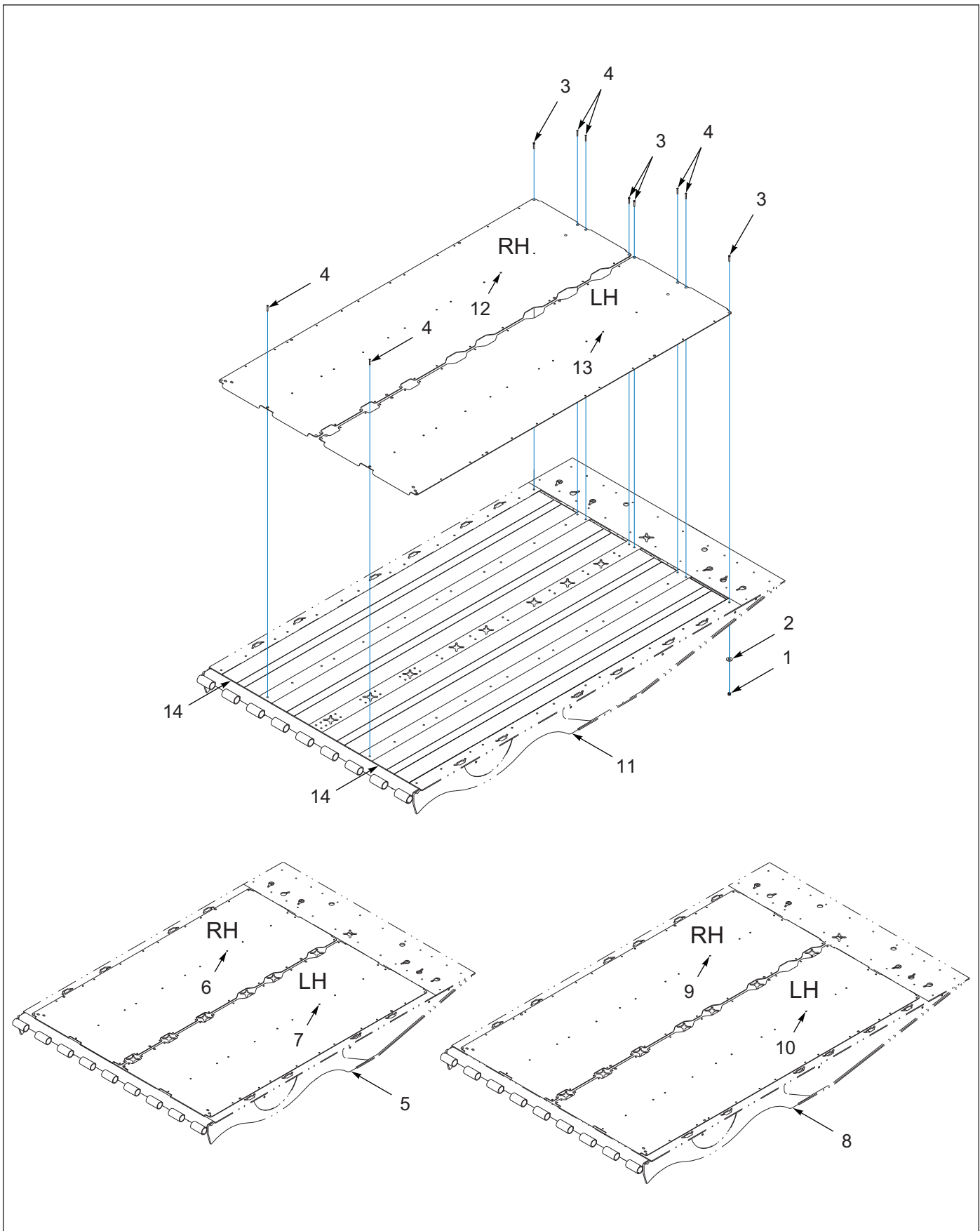


Figure 1-98: Tail Tread Grip-222967

Tail Tread Grip-222967

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	222968	TREAD GRIP,BO,900-12 TL,TLRCLR	--
--	222969	TREAD GRIP,BO,900-12TAIL,GALV	--
--	222970	TREAD GRIP,BO,900-14,TRLCLR	--
--	222971	TREAD GRIP,BO,900-14 TAIL,GALV	--
--	222972	TREAD GRIP,BO,900-15TL,TRL CLR	--
--	222973	TREAD GRIP,BO,900-15TAIL,GALV	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (68 EACH FOR 222968, 222969) (80 EACH FOR 222970, 222971) (86 EACH FOR 222972, 222973)	--
2	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD (68 EACH FOR 222968, 222969) (80 EACH FOR 222970, 222971) (86 EACH FOR 222972, 222973)	--
3	103988	SCREW,RDHD,SQ NK3/8-16X1-3/4 (62 EACH FOR 222968, 222969) (74 EACH FOR 222970, 222971) (80 EACH FOR 222972, 222973)	--
4	195009	SCREW,RD HD 3/8-16X1-1/2 GR5	6
5	219310	TAIL WLDMT 900-12FT 235	--
5	219311	GALV OF 219310 (12' TAIL)	--
6	219332	PAINT 219328 TRL CLR RH TG 12'	1
6	219333	GALV OF 219328 RH TRD GRIP 12'	1
7	219330	PAINT 219329 TRL CLR LH TG 12'	1
7	219331	GALV OF 219329 LH TRD GRIP 12'	1
8	220408	TAIL WLDMT 900-15FT 235	--
8	220442	GALV OF 220408 15'TAIL 235	--
9	220444	PAINT 220412 TRL CLR,RHTRDGRIP	1
9	220446	GALV OF 220412,RH TRD GRIP	1
10	220445	PAINT 220413 TRL CLR,LHTRDGRIP	1
10	220447	GALV OF 220413,LH TRD GRIP	1
11	221022	TAIL WLDMT 900-14FT 235	--
11	221023	GALV OF 221022 (14' TAIL)	--
12	221036	PAINT 221034 TRL CLR RH TG 14'	1
12	221038	GALV OF 221034 RH TRD GRIP 14'	1
13	221037	PAINT 221035 TRL CLR LH TG 14'	1
13	221039	GALV OF 221035 LH TRD GRIP 14'	1
14	RWD39021	APITONG, 1 X 7.08, 2.65 (116 FEET FOR 222968, 222969) (140 FEET FOR 222970, 222971) (142 FEET FOR 222972, 222973)	--

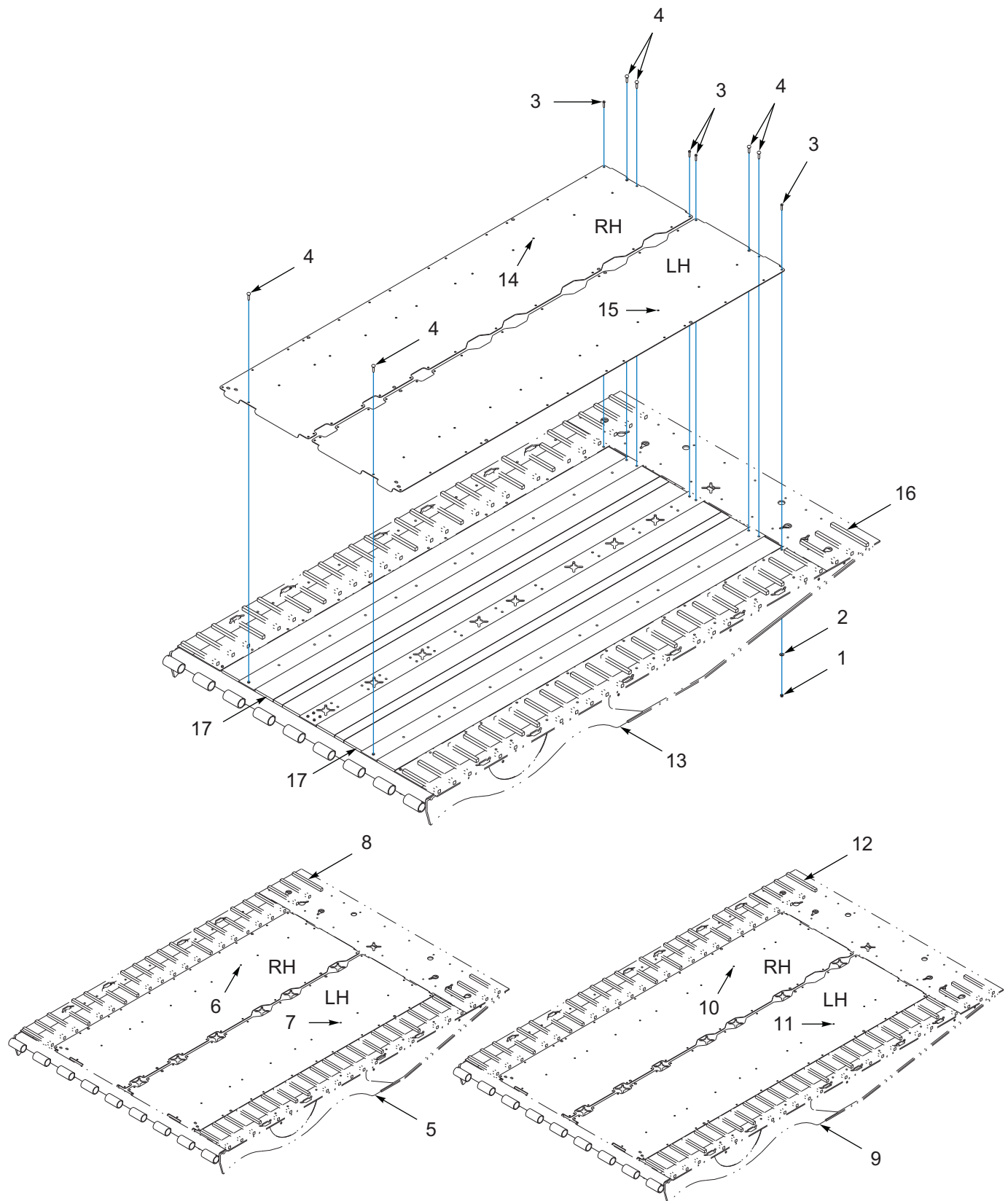


Figure 1-99: Tail Tread Grip-223036

Tail Tread Grip-223036

ITEM	PART NUMBER	DESCRIPTION	QTY.
	223037	TG BO 900-12 TAIL, TRLCLR TB	--
	223038	T-GRIP BO 900 12 TAIL GALV TB	--
	223039	TG BO 900-14 TAIL, TRLCLR TB	--
	223040	T-GRIP BO 900 14 TAIL GALV TB	--
	223041	TREAD GRIP,BO,900-15TL,TRL CLR	--
	223042	TREAD GRIP,BO,900-15TL,GALV	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (68 EACH FOR 223037, 223038) (80 EACH FOR 223039, 223040) (86 EACH FOR 223041, 223042)	--
2	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD (68 EACH FOR 223037, 223038) (80 EACH FOR 223039, 223040) (86 EACH FOR 223041, 223042)	--
3	223124	SCREW,BHCS 3/8-16UNCX1-3/4 (BEFORE 11/13/2019) (68 EACH FOR 223037, 223038) (80 EACH FOR 223039, 223040) (86 EACH FOR 223041, 223042)	--
3	103988	SCREW,RDHD,SQ NK3/8-16X1-3/4 (AFTER 11/13/2019) (62 EACH FOR 223037, 223038) (74 EACH FOR 223039, 223040) (80 EACH FOR 223041, 223042)	--
4	195009	SCREW,RD HD 3/8-16X1-1/2 GR5 (AFTER 11/13/2019)	6
5	219310	TAIL WLDMT 900-12FT 235	--
6	224910	PAINT 224908 TRL CLR RH TG 12	1
6	224912	GALV OF 224908 RH TG 12' TB	1
7	224909	PAINT 224907 TRL CLR LH TG 12	1
7	224911	GALV OF 224907 LH TG 12' TB	1
8	223024	TRACTION BAR INSTL 12FT	--
8	223025	GALV OF 223024 TRACT BARS 12FT	--
9	221024	TAIL WLDMT 900-14FT 255	--
10	219344	PAINT 219342 TRL CLR RH TG 14	1
10	219346	GALV OF 219342 RH TG 14' TB	1
11	219345	PAINT 219343 TRL CLR LH TG 14	1
11	219347	GALV OF 219343 LH TG 14' TB	1
12	223027	TRACTION BAR INSTL 14FT	--
12	223028	GALV OF 223027 TRACT BARS 14FT	--
13	220408	TAIL WLDMT 900-15FT 235	--
14	223004	PAINTED 223002 TRL CLR RH TRD	1
14	223006	GALV OF 223002 TRL CLR RH TRD	1

Tail Tread Grip-223036

ITEM	PART NUMBER	DESCRIPTION	QTY.
15	223005	PAINTED 223003 TRL CLR LH TRD	1
15	223007	GALV OF 223003 TRL CLR LH TRD	1
16	220448	TRACTION BAR INSTL,15FT	--
16	220449	GALV OF 220448 TRACT BARS 15FT	--
17	RWD39021	APITONG, 1 X 7.08 2.65 (68 FEET FOR 223037, 223038) (82 FEET FOR 223039, 223040) (89 FEET FOR 223041, 223042)	--

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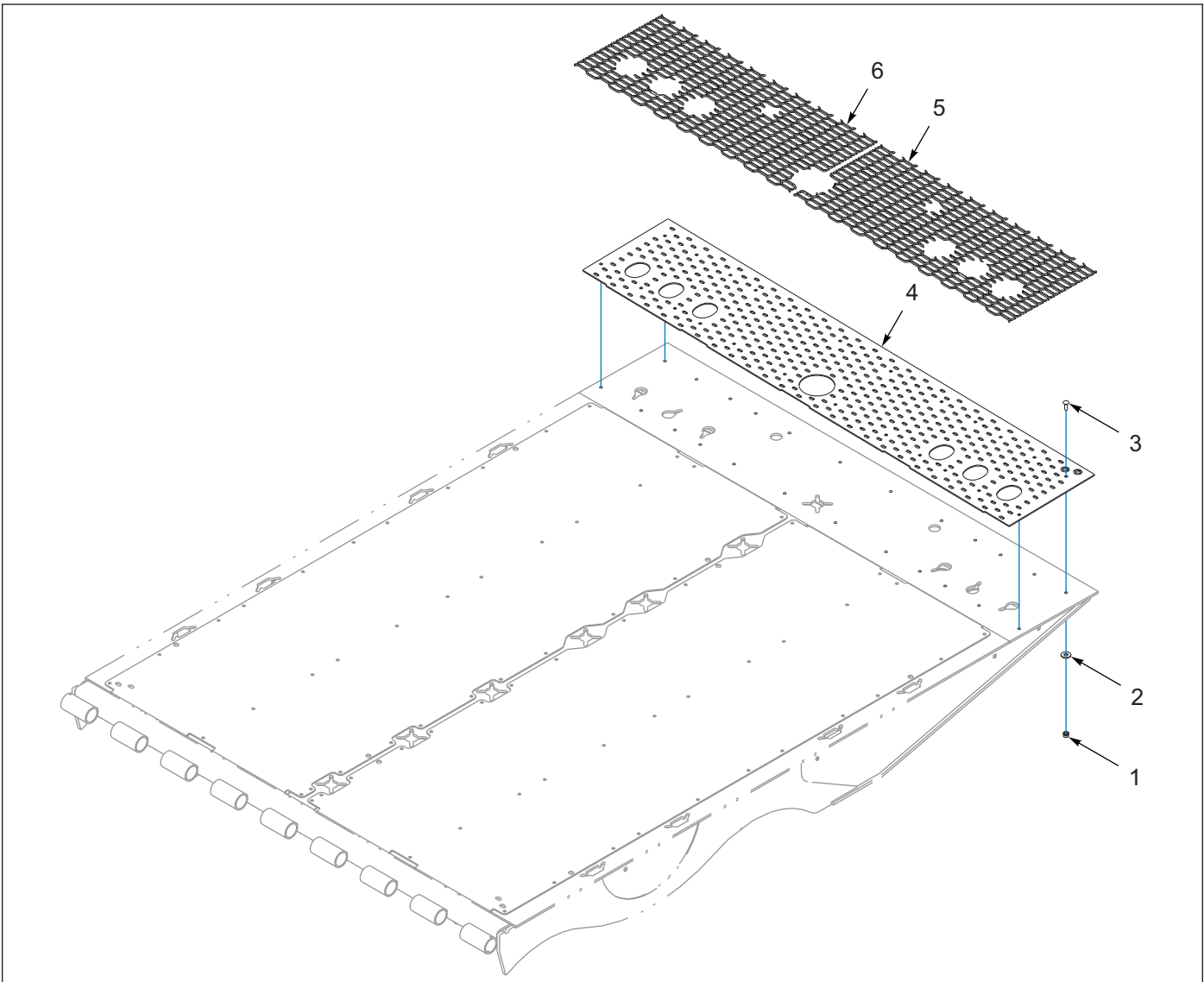


Figure 1-100: Tail Tread Grip, Approach Plate

Tail Tread Grip, Approach Plate

ITEM	PART NUMBER	DESCRIPTION	QTY.
	222965	TREAD GRIP,BO,900 APPR,TRL CLR (REF 1) (INCLUDES ITEMS 1-4)	--
	222966	TREAD GRIP,BO,900 APPR,GALV (REF 2) (INCLUDES ITEMS 1-4)	--
	223043	DECK EXP STL #4,900 APPR (REF 3) (INCLUDES ITEMS 5-6) (EXPANDED METAL, WELD-ON)	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	24
2	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24
3	101864	SCREW,RD HD 3/8-16X1-1/4 GR5	24
4	220431	TRD GRIP 220430 PTD TRLR CO LOR (OPTION REF 1)	1
4	220432	GALV OF 220430 TRD GRIP (OPTION REF 2)	1
5	235667	EXP METAL,LH OVERLAY,900 APPR (OPTION REF 3)	1
6	235668	EXP METAL,RH OVERLAY,900 APPR (OPTION REF 3)	1

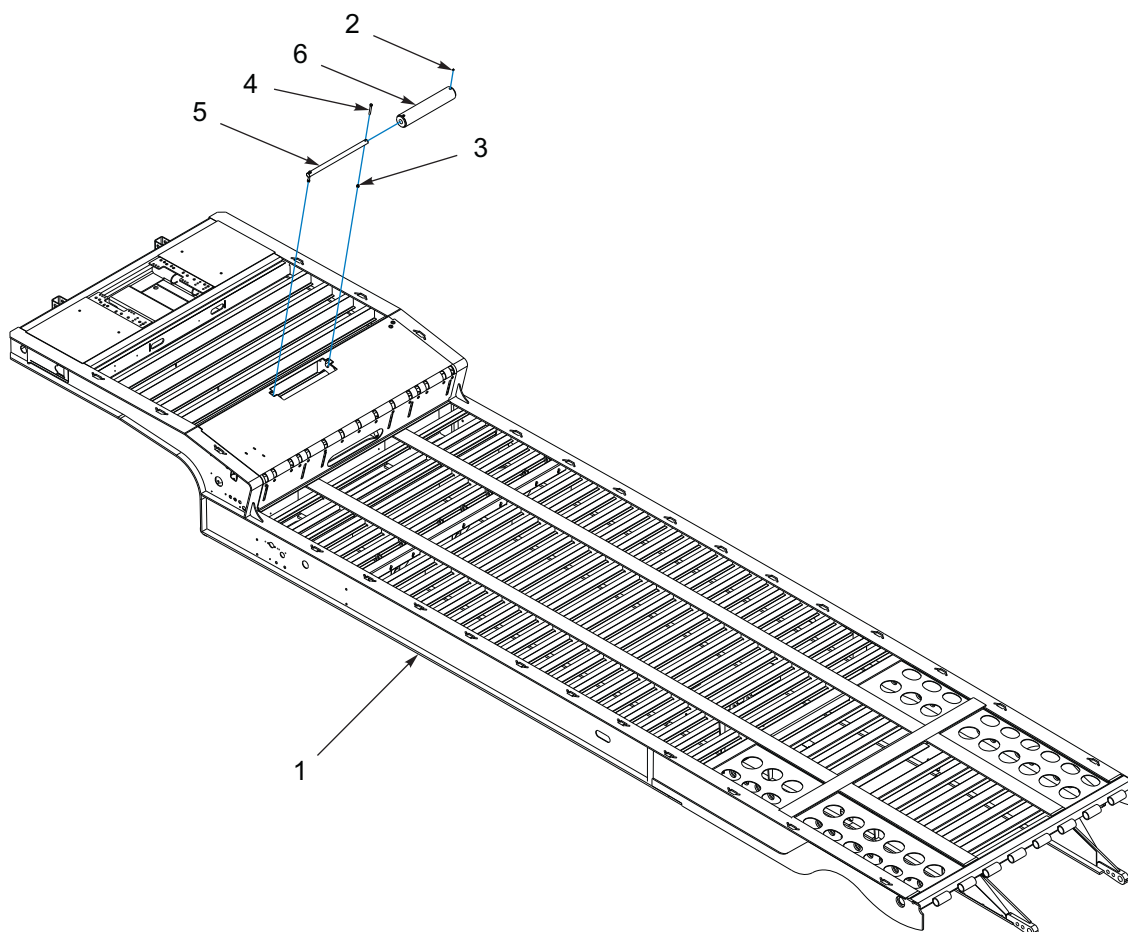


Figure 1-101: Dual Slope Roller Installation

Dual Slope Roller Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	160084	DUAL SLOPE ROLLER INSTALLATION	--
1	-----	FRAME, MOD DUAL SLOPE ROLL	1
2	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
5	3-642-010134	ROLLER ROD	2
6	3-645-010059	ROLLER WELDMENT, CABLE - UPPER DECK	2

Electrical Installation - Options

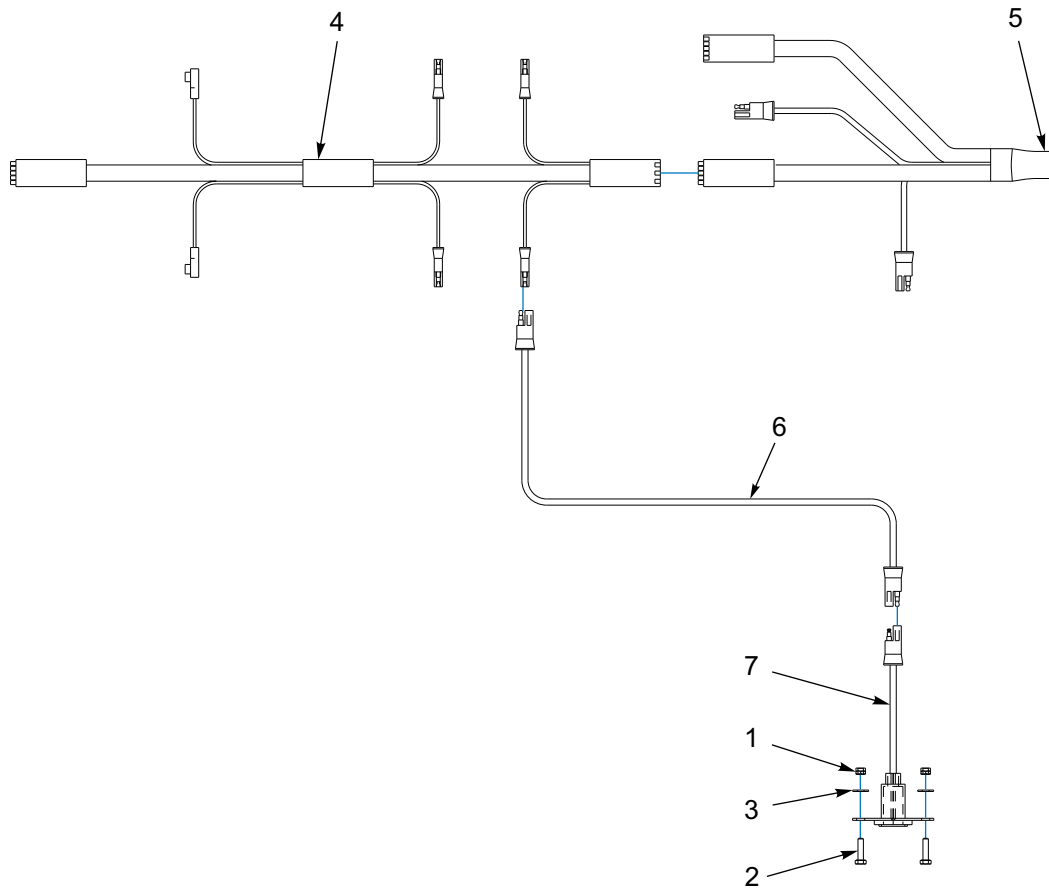


Figure 1-102: Rear Side Electrical Outlet Installation

Rear Side Electrical Outlet Installation

ITEM	PART NUMBER	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	--
5	143103	HARNESS, E-CHAIN GROTE	--
6	150111	HARNESS 300"	1
7	150116	HARNESS/RECEPTACLE ASSEMBLY	1

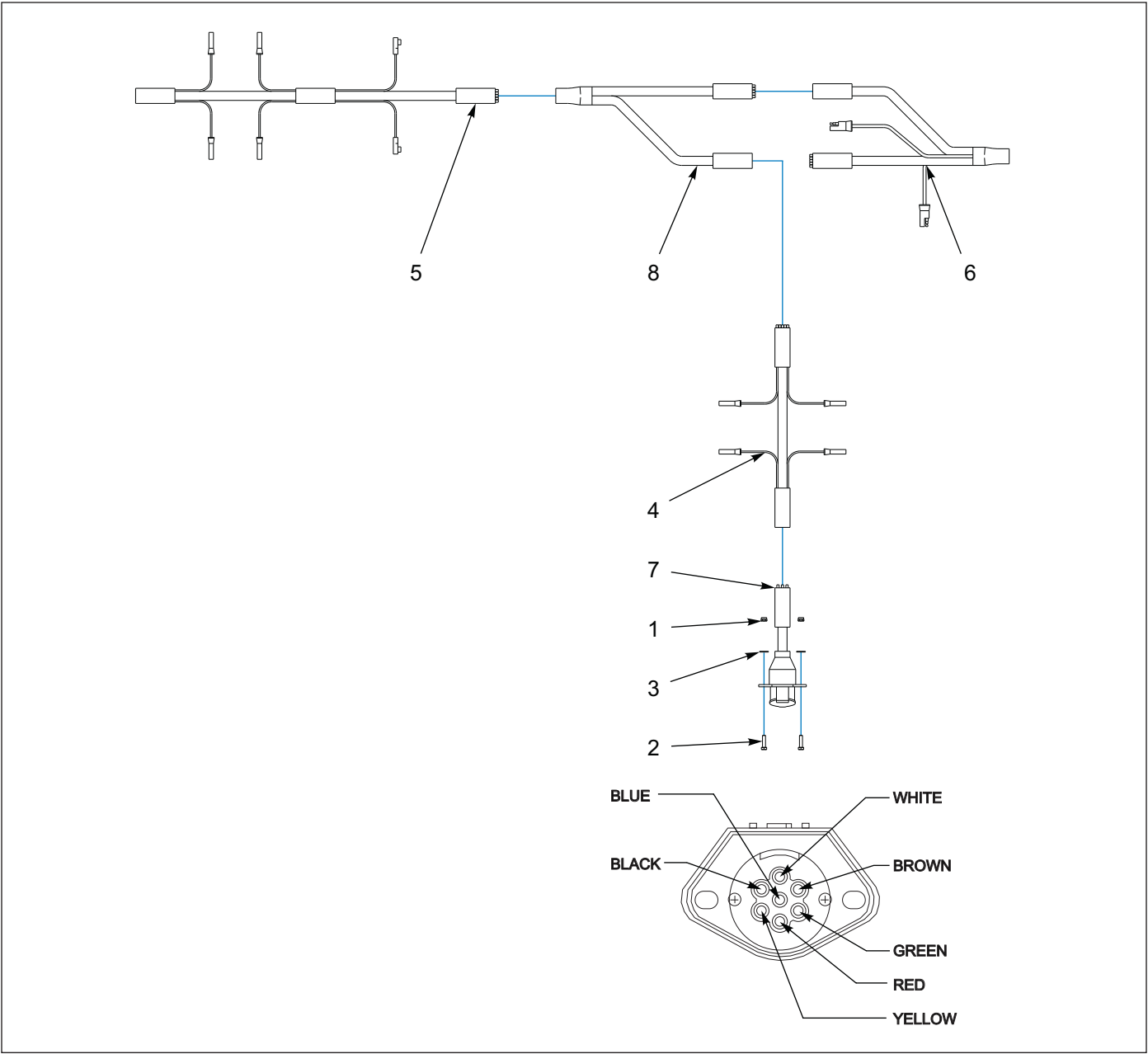


Figure 1-103: 7-Way Electrical Installation

7-Way Electrical Installation

ITEM	PART NUMBER	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, E-CHAIN	--
7	146897	HARNESS, 7-WAY RECEPTACLE MAIN	1
8	146929	HARNESS, Y SPLITTER	1



Figure 1-104: Remote Control Assembly, Wireless, Kar-Tech (Before 08/01/2019)

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
	168649	RECEIVER/TRANS MACRO KAR 900 (INCLUDES ITEMS 1-2)	- -
1	168979	LANYARD LANDOLL	1
2	168977	KIT, REMOTE KAR-TECH 900 (INCLUDES ITEMS 3-6)	1
3	168978	TRANSMITTER MACRO 900	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 (NOT INCLUDED) (WALL CHARGER, REQUIRES ITEM 5)	1
8	197460	BATTERY REPLACE KARTECH MACRO (NOT INCLUDED) (CERTAIN TRANSMITTER MODEL NUMBERS ONLY. FOR COMPATIBILITY, CONTACT LANDOLL SERVICE DEPARTMENT)	1

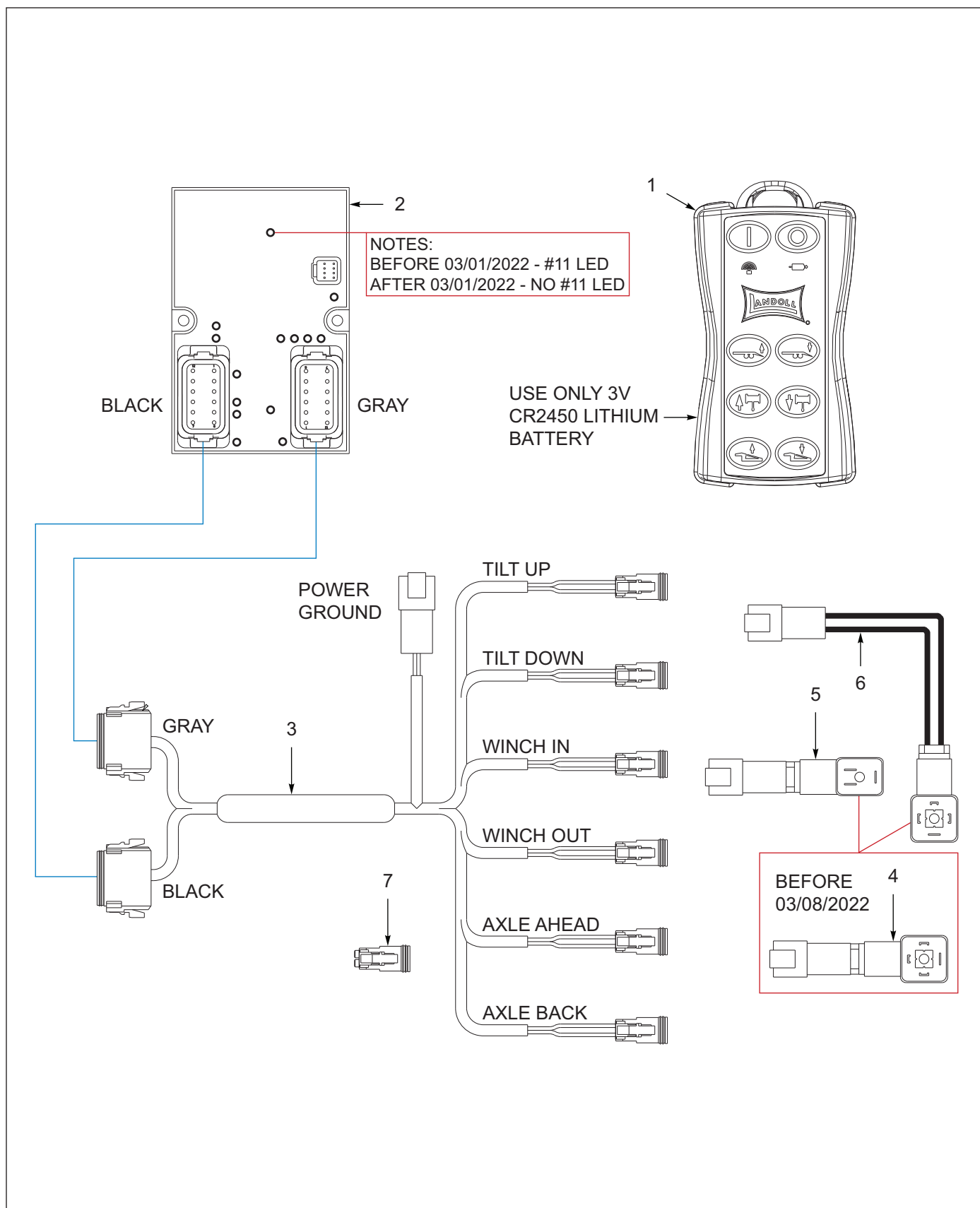


Figure 1-105: Remote Control Assembly, Wireless, Brand (After 08/01/2019)**Remote Control Assembly, Wireless, Brand (After 08/01/2019)**

ITEM	PART NUMBER	DESCRIPTION	QTY.
	213497	REMOTE KIT BRAND 6 FUNC 900 (INCLUDES ITEMS 1-3)	--
1	213503	TRANSMITTER 6 FUNC 900	1
2	209102	RECEIVER 6 FUNC SIDE AX	1
3	209103	HARNESS RECEIVER 6 FUNC SLIDE	1
4	218023	ADAPTER DIN 43/2PIN DUTSCH (NOT INCLUDED) (BEFORE 03/08/2022) (AFTER REPLACED BY ITEMS 5-6)	6
5	220692	ADAPTER DIN46/2PIN DUTSCH (NOT INCLUDED) (AFTER 03/08/2022, REPLACED ITEM 4)	2
6	229494	ADAPTER DIN/2PIN DUTSCH 6IN (NOT INCLUDED) (AFTER 03/08/2022, REPLACED ITEM 4)	4
7	194407	PLUG ASSY DUMMY DEUTSCH 2 PIN (NOT INCLUDED)	--

Engines - Options

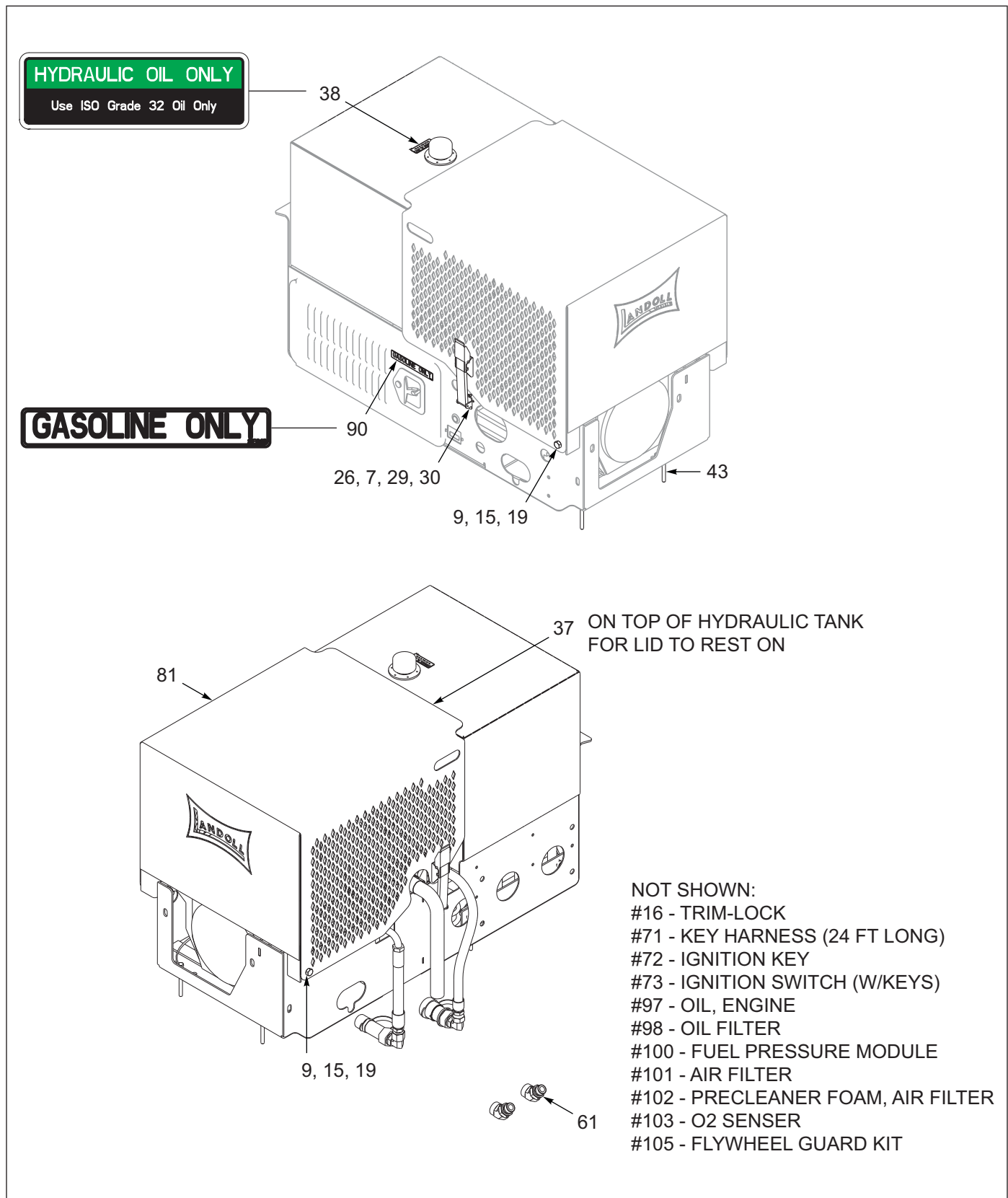


Figure 1-106: 25 HP Upper Deck Package (1 of 5)

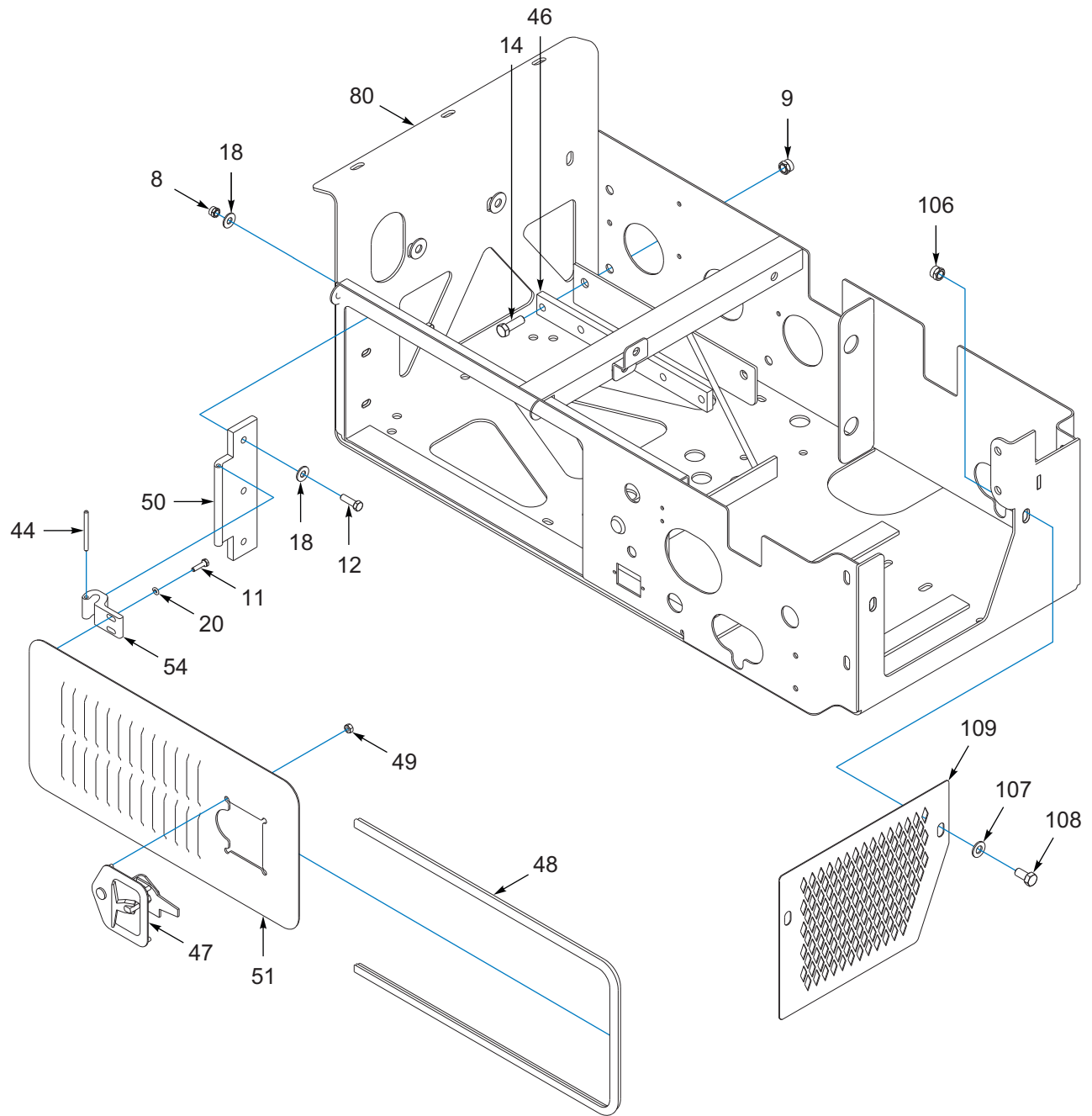


Figure 1-107: 25 HP Upper Deck Package (2 of 5)

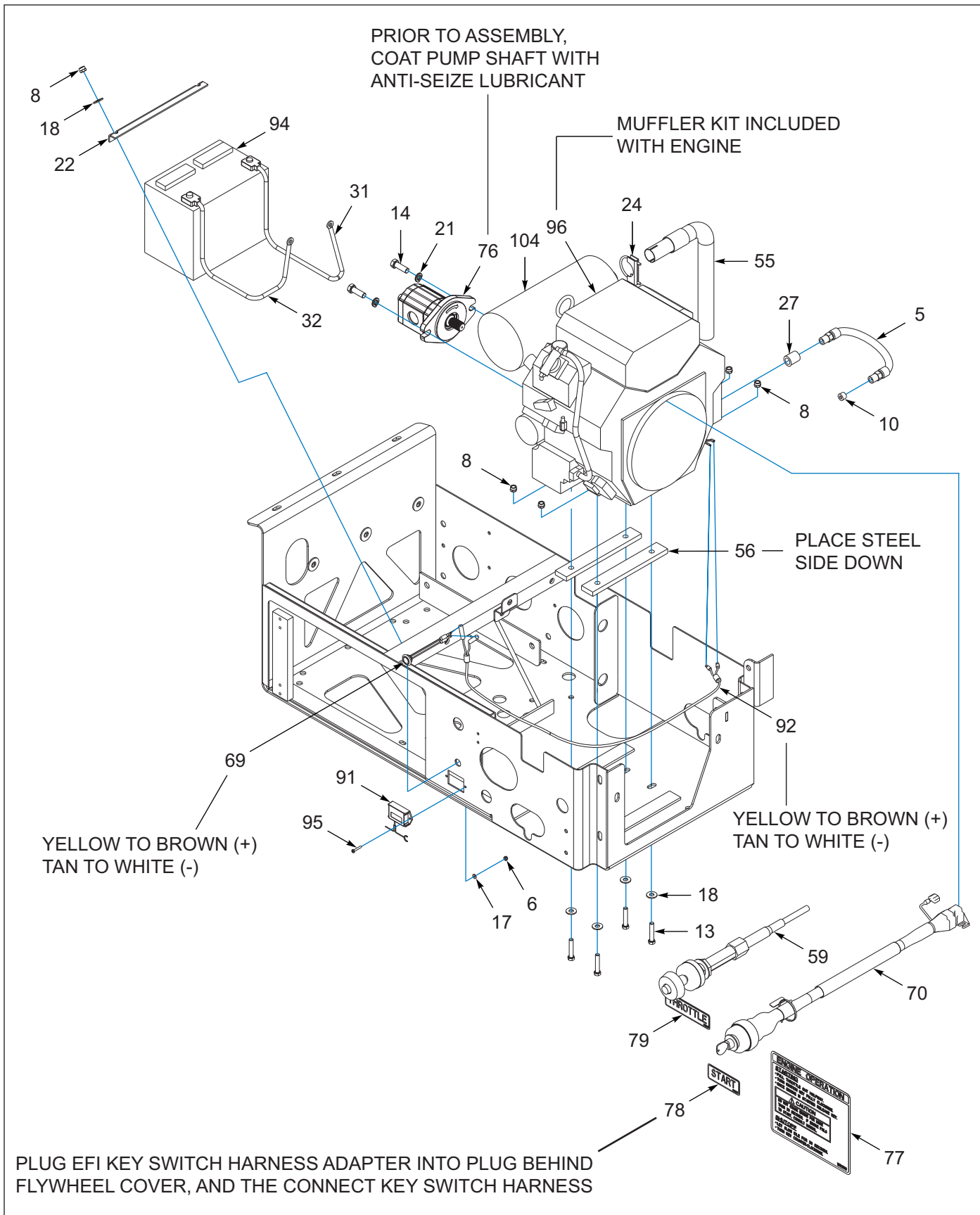


Figure 1-108: 25 HP Upper Deck Package (3 of 5)

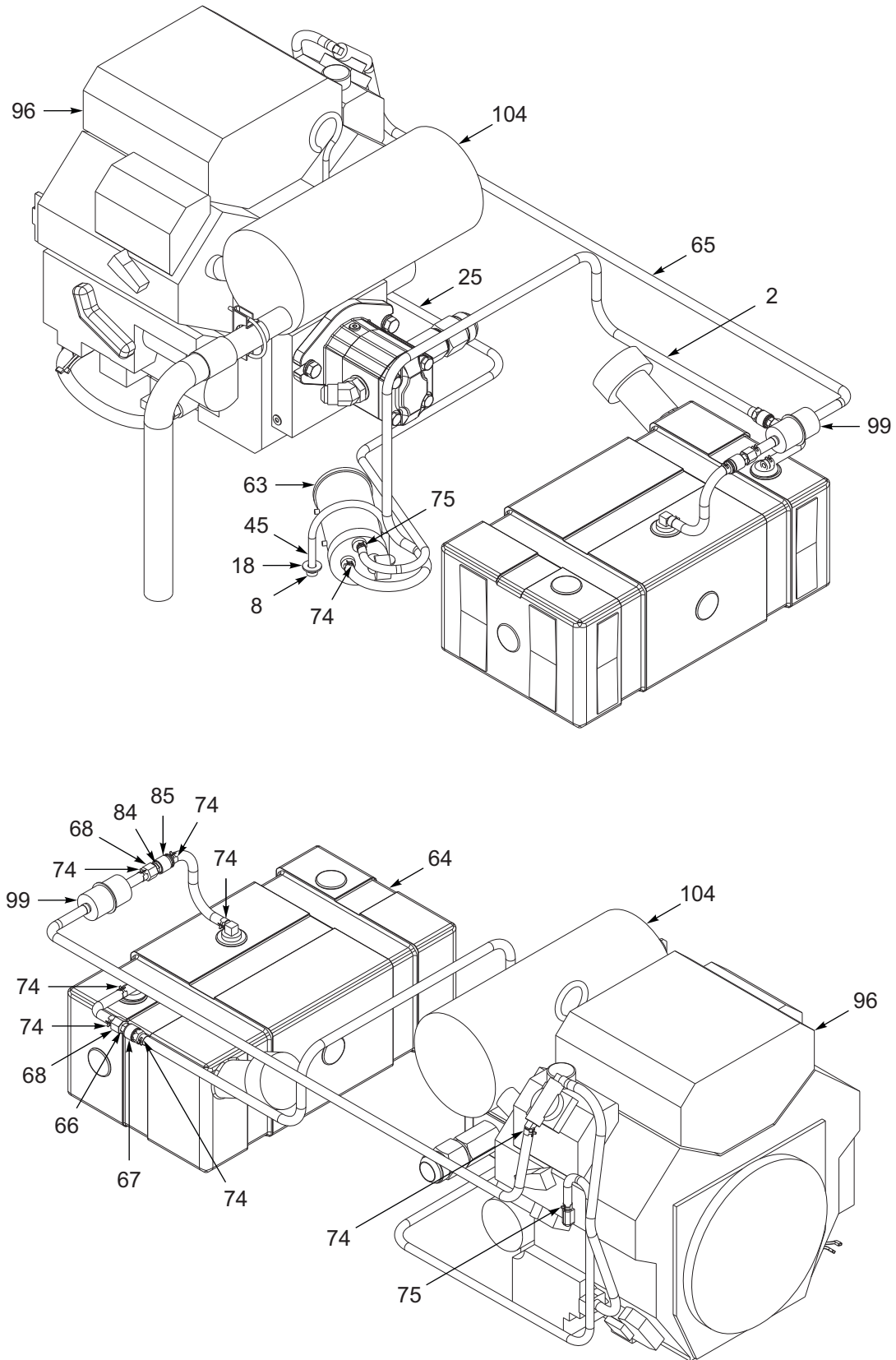


Figure 1-109: 25 HP Upper Deck Package (4 of 5)

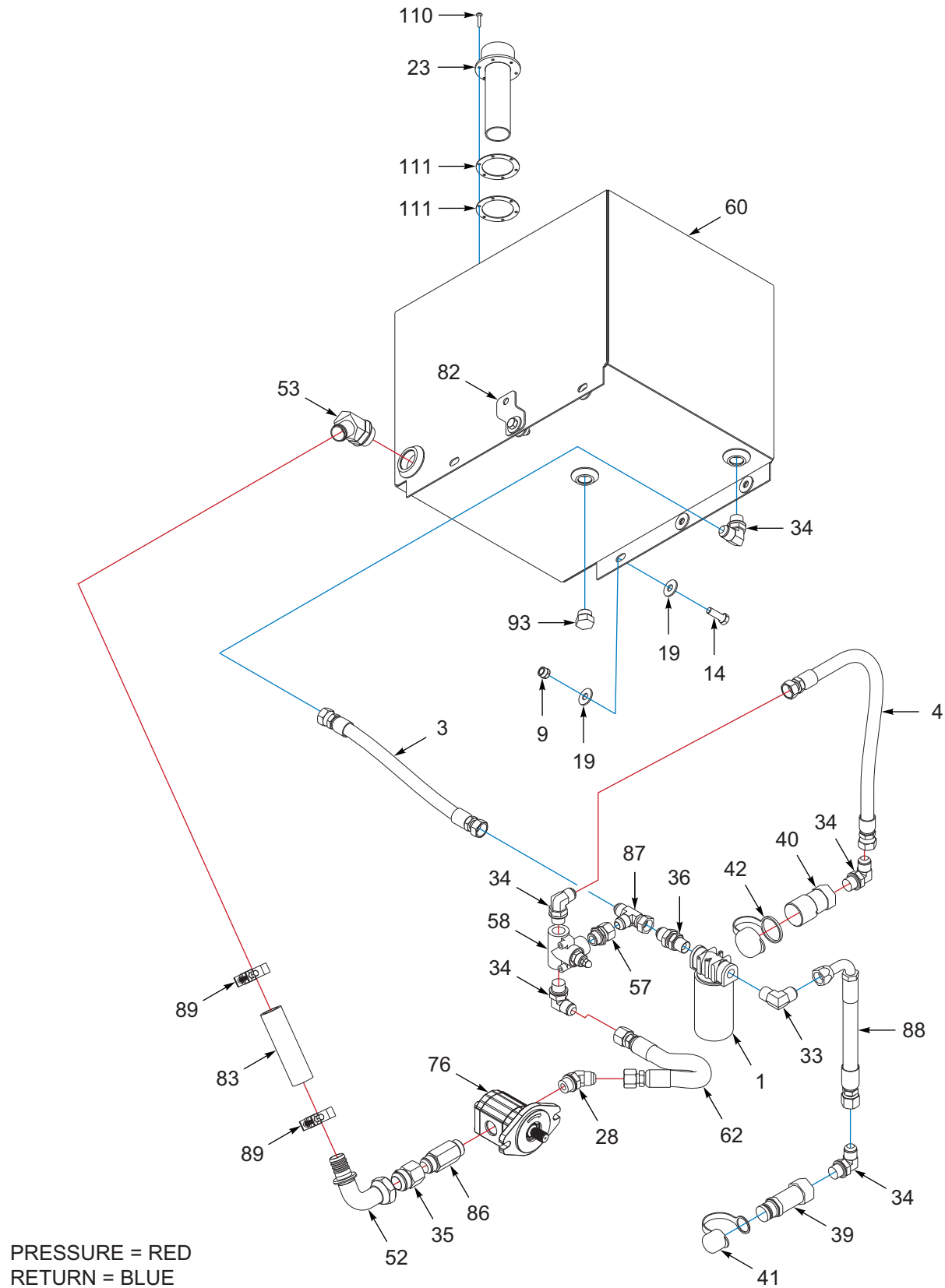


Figure 1-110: 25 HP Upper Deck Package (5 of 5)

25 HP Upper Deck Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
	189360	ENG PKG 25HP GAS EFI	--
1	1-295-010001	FILTER, RETURN LINE	1
2	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL (BY THE FOOT)	5
3	1-397-010304018	HOSE ASSY, 3/4X18, SAE37, STR-ST	1
4	205709	HOSE ASSY 3/4 X 60 JIC #12-#16 (BEFORE 11/19/2018)	1
4	205710	ADAPTER, 37-37 JIC, 90, 16S (BEFORE 11/19/2018)	1
4	1-397-010304060	HOSE ASSY, 3/4X60, SAE37, STR-ST (AFTER 11/19/2018 - REPLACED 205709 & 205710)	1
5	1-397-010312032	HOSE ASSY, 3/8X32, 3/8 MPT ENDS	1
6	1-512-010003-03	NUT, HX 8-32, SLF-LKG W/NYL (ADDED AFTER 04/30/2019)	2
7	1-512-010004-03	NUT, HEX, SLFLK 10-24UNC, GRA	8
8	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
9	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	10
10	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
11	1-654-010047-06	SCREW, HX CP 1/4-20UNCX1 GR5	4
12	1-654-010051-06	SCREW, HEX CAP 3/8-16UNCX1-1/4	3
13	1-654-010051-09	SCREW, HEX CAP, 3/8-16UNCX2 GR5	6
14	1-654-010055-03	SCREW, HEX CAP, 1/2-13UNCX1-1/2	10
15	1-654-010055-13	SCREW, HEX CAP, 1/2-13UNCX4 GR5	2
16	1-822-010002	TRIM-LOK 3/16 (NOT SHOWN (BY THE FOOT))	6
17	1-861-010032-02	WASHER, FL #8 ZP/CD (ADDED AFTER 04/30/2019)	2
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	22
19	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	20
20	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
21	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
22	3-120-010124	BATTERY CLAMP BRKT	1
23	3-162-010001	FILLER BREATHER STRAINER ASSY	1
24	3-182-010028	CLAMP MUFFLER	1
25	3-316-010008	3/16 ID FUEL HOSE (BY THE FOOT)	3
26	3-443-010018	LATCH, FLEX DRAW, LEVER ASSIST	2
27	3/8P COUPL	BLK PIPE COUPLING	1
28	40-0667-02	ELBOW, 45°, ST-37 12-12	1
29	110-0116	SCREW RD HD CAP 10-24X3/4	8
30	110-0253	WASHER, FLAT 3/16 STD	8
31	514-9045-30	CABLE ASSY BATTERY (POSITIVE)	1
32	514-9073-30	CABLE ASSY BATTERY (NEGATIVE)	1
33	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
34	120384	ADAPTER, #16JICX#12ORB, 90ELB (BEFORE 11/19/2018 - USED WITH 205709 & 205710 TO ATTACH TO ITEM# 58)	1
34	2062-12-12S	ADAPTER, 90, #12 O-RINGX#12TUBE (BEFORE 11/19/2018, 4 EACH - AFTER 11/19/2018 REPLACE 120384)	5
35	2215-16-20S	ADAPTER-16JIC-20JIC STR	1
36	2240-12-12S	ADAPTER, BLKHD, 3/4NPT-3/4TBE	1
37	10030	SEAL, BAR STOCK-NEOPRENE SPNG (BY THE INCH)	24
38	10109	DECAL, HYDRAULIC FLUID ONLY (ADDED AFTER 11/19/2018)	1
39	105479	COUPLER FLAT FACE MALE NOSE (PARTS - SEE PAGE 1-212) (BEFORE 03/01/2022 - SILVER BODY)	1
39	239677	COUPLER FL FACE ISO -12 MALE (PARTS - SEE PAGE 1-212) (AFTER 03/01/2022- BLACK BODY)	1

25 HP Upper Deck Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
40	105480	COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 1-212) (BEFORE 03/01/2022)	1
40	239678	COUPLER FL FACE ISO -12 FEMALE (AFTER 03/01/2022)	1
41	105481	COUPLER DUST CAP MALE (BEFORE 03/01/2022)	1
41	239679	DUST CAP -12 ISO MALE COUPLER (AFTER 03/01/2022)	1
42	105482	COUPLER DUST CAP FEMALE (BEFORE 03/01/2022)	1
42	239680	DUST CAP FEMALE COUPLER -12ISO (AFTER 03/01/2022)	1
43	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
44	108601	PIN, DOOR HINGE	2
45	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
46	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
47	114814	LATCH FOLDING T LOCKABLE	1
48	114815	SEAL, SPONGE RUBBER TRIM (BY THE FOOT)	5
49	115877	NUT HVY HEX 1/4-20 GR5	4
50	116326	HINGE,BASE MNT, COM ENG PKG	1
51	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
52	116330	FITTING 1.25F 37-1.25 BARB 90	1
53	117873	FITTING,1.63-12 SAE-1 25H/B45	1
54	119206	HINGE, DOOR ENG DRV, 25HP	2
55	119445	EXHAUST EXT WLDMT 25HP E/P	1
56	120659	ISOLATOR, KOHLER 25HP MOUNT	2
57	120660	ADAPTER #12-O/RFEM-12#FL M	1
58	120661	VALVE,HYD PRES,#12SAE,2500P	1
59	128774	CABLE, THROTTLE 40'	1
60	129264	HYD TANK WLDMT, 30G E/P	1
61	138209	ADAPTER HYD 45#12 MALE-FEMORB	2
62	143850	HOSE ASSY 3/4X35OAL #12F JIC	1
63	166766	CARBON CANISTER,FUEL TANK,GAS	1
64	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM	1
65	169532	HOSE, FUEL,1/4 LOW PERM, CARB (BY THE FOOT)	5
66	170109	FITTING,1/4MPT TO MALE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 84, 202225)	--
67	170110	FITTING,5/16BARB TO FE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 85, 202226)	--
68	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
69	175591	LIGHT YEL LED .75 CL.MK GROTE (ADDED AFTER 02/24/2020)	1
70	178428	SWITCH/HARNESS ASSY KOHLER UD (24 FEET LONG, STANDARD WITH ENGINE PACKAGE) (INCLUDES ITEMS 71-73)	1
70	178431	SWITCH/HARNESS ASSY KOHLER (40 FEET LONG, USED WITH SPECIAL MOUNT APPLICATIONS, NOT INCLUDED) (INCLUDES ITEMS 72-73)	1
71	178425	HARNESS ASSY KOHLER ENG HARNESS ASSY KOHLER ENG (24 FEET LONG, PART OF 178428, NOT SHOWN)	1
72	228958	IGNITION KEYS (1 PAIR) INDAK (NOT SHOWN)	1
73	3-765-010050	SWITCH,ENG IGN,KOHLER MH22 (2509904) (NOT SHOWN)	1
74	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
75	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2

25 HP Upper Deck Package

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



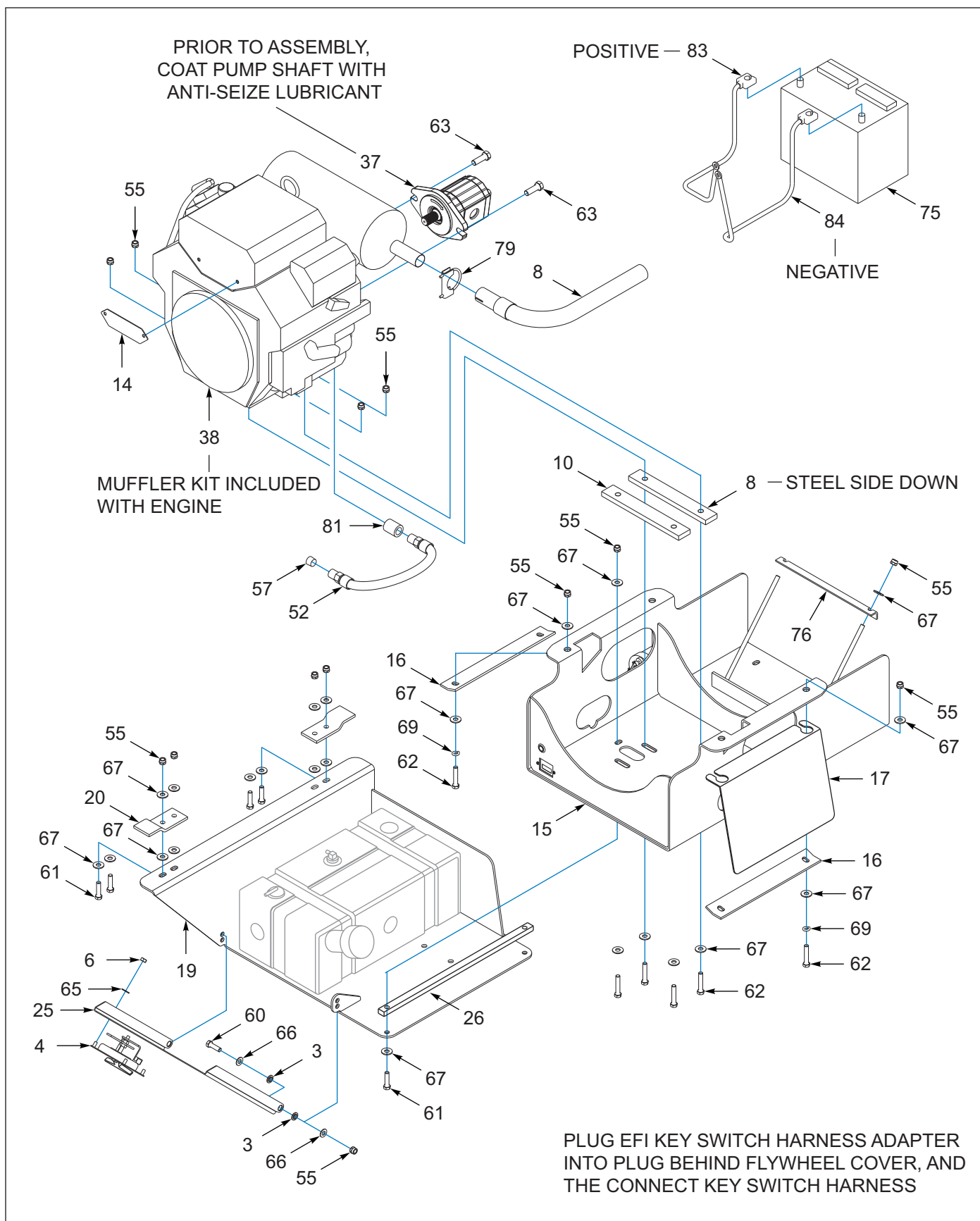


Figure 1-112: 25 HP Slope Package (2 of 4)

NOT SHOWN:

#5 - TOOL BOX KEY

#48 - OIL, ENGINE 10W30

#88 - FUEL PRESSURE MODULE

1-295-010002 - FILTER (PART OF ITEM# 49)

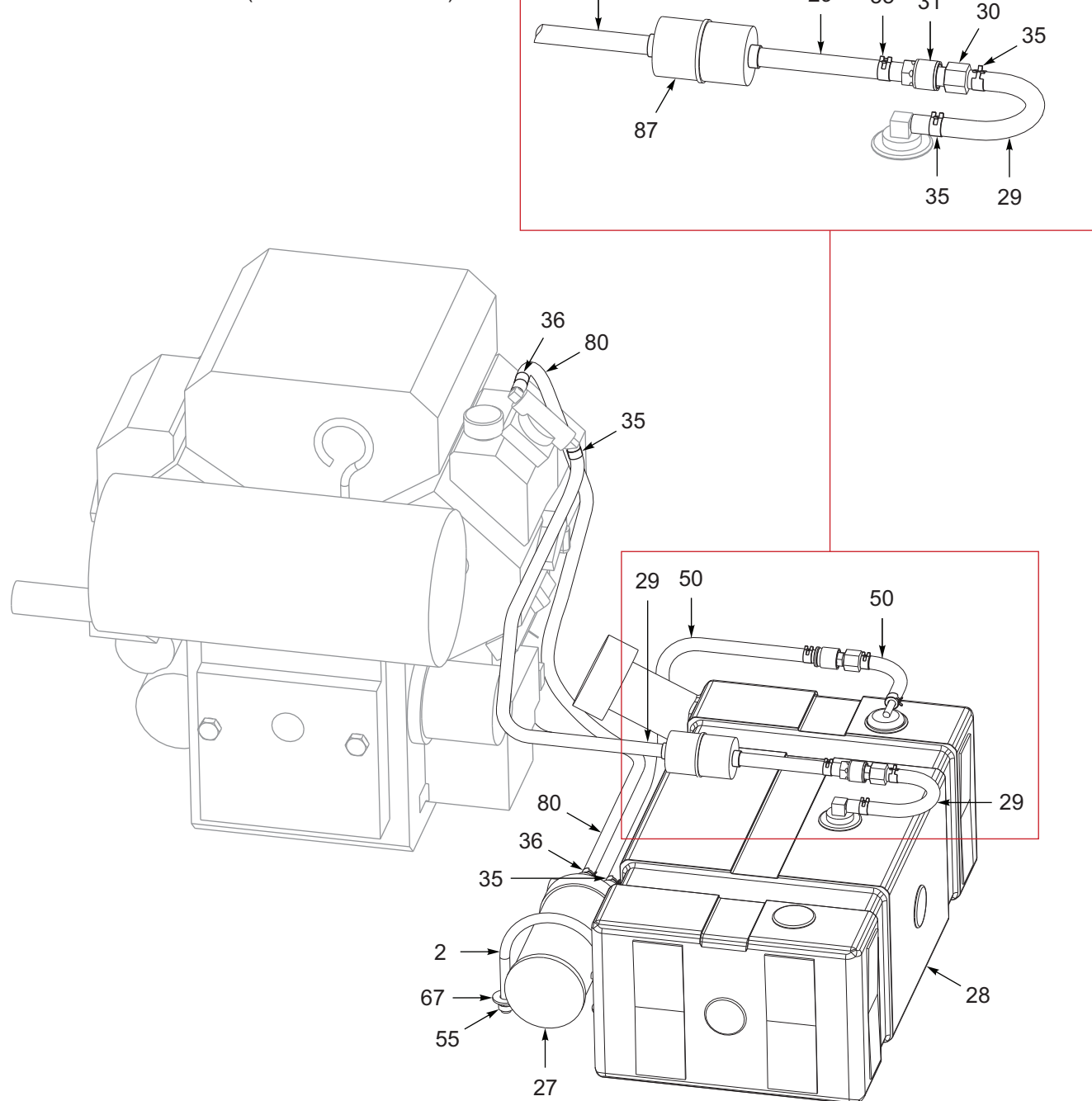


Figure 1-113: 25 HP Slope Package (3 of 4)



25 HP Slope Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
	138160	ENG PKG 27HP 930B SLOPE	--
1	10109	DECAL, HYDRAULIC FLUID ONLY (ADDED 12/04/2018)	1
2	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
3	112248	NYLON SHOULDER WASHER	4
4	114814	LATCH FOLDING T LOCKABLE (INCLUDES ITEM 5)	1
5	CH545	TOOL BOX KEY (PART OF ITEM 4) (NOT SHOWN)	1
6	115877	NUT HVY HEX 1/4-20 GR5	4
7	116330	FITTING 1.25F 37-1.25 BARB 90 (202702-16-20S)	2
8	119445	EXHAUST EXT WLDMT 25HP E/P	1
9	119553	CONNECTOR,O-RING/37FL,20-16	1
10	120659	ISOLATOR, KOHLER 25HP MOUNT	2
11	120660	ADAPTER #12-O/RFEM-12#FL M	1
12	120661	VALVE,HYD PRES,#12SAE,2500P	1
13	120662	HYD TANK WLDMT, 15G E/P	1
14	123014	PLATE, MOTOR FRONT, 25HP E/P	1
15	138114	BASE WLDMT ENG PKG 930B	1
16	138144	CLAMP ENG PKG 930B	3
17	138145	SHIELD ENG PKG 930B	1
18	138146	BRACKET TANK MOUNT 930B	1
19	138192	TRAY WLDMT GAS TANK 930 ENG	1
20	138206	MOUNT TRAY GAS TANK	2
21	138818	HOSE ASSY 3/4X24 SAE37 STR 90	1
22	139071	HOSE 3/4 X 72 SAE 37 STR-STR	1
23	139072	HOSE 3/4X105SAE 37 STR-STR	1
24	139073	HOSE 1-1/4ID X 33IN SUCTION	1
25	156171	DOOR GAS TANK TRAY	1
26	156173	SPACER 1/2" FUEL TANK TRAY	1
27	166766	CARBON CANISTER,FUEL TANK,GAS	1
28	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM (104699-TANK W/GUAGE, 169531-TANK W/VENT)	1
29	169532	HOSE, FUEL,1/4 LOW PERM, CARB (BY THE FOOT)	3
30	170109	FITTING,1/4MPT TO MALE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 42, 202225)	1
31	170110	FITTING,5/16BARB TO FE QD,FORC (BEFORE 02/01/2022, REQ 1 EACH) (AFTER 02/01/2022 OBSOLETE, USE ITEM 43, 202226)	1
32	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
33	175591	LIGHT YEL LED .75 CL.MK GROTE (ADDED 02/25/2020)	1
34	178428	SWITCH & HARNESS KIT KOHLER UD (3-765-010050-SWITCH ONLY, 228958-KEY ONLY)	1
35	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
36	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
37	186811	PUMP HYDRAULIC GEAR 0.77CID	1
38	189308	ENGINE,KOHLER,25HP,EFI,PUMP (SERVICE PARTS- SEE PAGE 1-195)	1
39	189309	DECAL,EFI ENG PKG INSTR	1
40	189310	DECAL, START, ENG PKG	1

25 HP Slope Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
41	189311	DECAL, THROTTLE, ENG PKG	1
42	170111	FITTING, 1/4MPT TO MALE QD, SUZU (BEFORE 10/01/2016, REQ 1 EACH)	--
42	202225	FITTING 1/4 MNPT/MALE QD (REPLACES 170111 AFTER 10/01/2016) (REPLACES 170109, ITEM 30 AFTER 02/01/2022)	2
43	170112	FITTING, 5/16 BARB TO FE QD, SUZU (BEFORE 10/01/2016, REQ 1 EACH)	--
43	202226	FITTING 5/16 HOSE BARB/FEMALE QD (REPLACES 170112 AFTER 10/01/2016) (REPLACES 170110, ITEM 31 AFTER 02/01/2022)	1
44	1-181-010046-7	CLAMP, HOSE 1-1/16 TO 2 DIA #24 (BEFORE 12/06/2017)	2
44	209878	HOSE CLAMP T-BOLT 25/32 X 1-3/4 (AFTER 12/06/2017)	2
45	218046	DECAL GASOLINE ONLY (ADDED 12/04/2018)	1
46	220977	METER HOUR/TACH DIGITAL (ADDED 04/30/2019)	1
47	223219	ENG MIL EXT ADAPTER HARNESS (ADDED 02/25/2020)	1
48	1410792	OIL, ENGINE 10W-30 (NOT SHOWN)	.5
49	1-295-010001	FILTER, RETURN LINE (1-295-010002-FILTER ONLY)	1
50	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL	3
51	1-397-010304025	HOSE ASSY, 3/4X25, SAE37, STR-ST	1
52	1-397-010312032	HOSE ASSY, 3/8X32, 3/8 MPT ENDS (ADDED 12/01/2016)	1
53	1-512-010003-03	NUT, HX 8-32, SLF-LKG W/NYL (ADDED 04/30/2019)	2
54	1-512-010005-01	NUT, HEX, SLFLKG GRB 1/4-20	2
55	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	22
56	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	6
57	1-560-010002-03	PLUG, PIPE, 3/8NPTF (ADDED 12/01/2016)	1
58	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
59	1-654-010047-09	SCREW, HX CP, 1/4-20UNCX1-3/4G5	2
60	1-654-010051-06	SCREW, HEX CAP 3/8-16UNCX1-1/4	2
61	1-654-010051-07	SCREW, HEX CAP, 3/8-16UNCX1-1/2	8
62	1-654-010051-09	SCREW, HEX CAP, 3/8-16UNCX2 GR5	8
63	1-654-010055-03	SCREW, HEX CAP, 1/2-13UNCX1-1/2	8
64	1-861-010032-02	WASHER, FL #8 ZP/CD (ADDED 04/30/2019)	2
65	1-861-010032-07	WASHER, FLAT 1/4 ZP	6
66	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	4
67	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	36
68	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	12
69	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	4
70	102-0204	ADAPTER EXTERNAL PIPE/37 FLARE	1
71	2021-12-12S	ADAPTER 3/4M PIPE X1-1/16MJIC (118-2679-21)	1
72	202702-12-12S	ADAPTER, #12 O-RING X #12 TUBE	1
73	202702-20-20S	ADAPTER #20 O-RING #20 TUBE (102-1092)	1
74	2062-12-12S	ADAPTER, 90, #12 O-RING X #12 TUBE	2
75	2481X	BATTERY 12 VOLT	1
76	3-120-010124	BATTERY CLAMP BRKT	1
77	3-155-010012	CABLE THROTTLE (200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)	1
78	3-162-010001	FILLER BREATHER STRAINER ASSY	1

25 HP Slope Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
79	3-182-010028	CLAMP MUFFLER	1
80	3-316-010008	3/16 ID FUEL HOSE (BY THE FOOT)	3
81	3/8P COUPL	BLK PIPE COUPLING (ADDED 12/01/2016)	1
82	40-0667-02	ELBOW,45,,ST-37 12-12	1
83	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
84	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
85	85G816E	SCREW,PAN.HD #8-32X1 (ADDED 04/30/2019)	2
86	900598-12S	PLUG, O-RING BOSS #12 (12 090109)	1
87	199105	FUEL FILTER KOHLER 25-050-42-S (INCLUDES HOSE CLAMPS)	1
88	210377	FUEL PRESSURE MODULE ECH740 (NOT SHOWN)	1
89	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
90	223220	GASKET, HYD TANK FILLER	2

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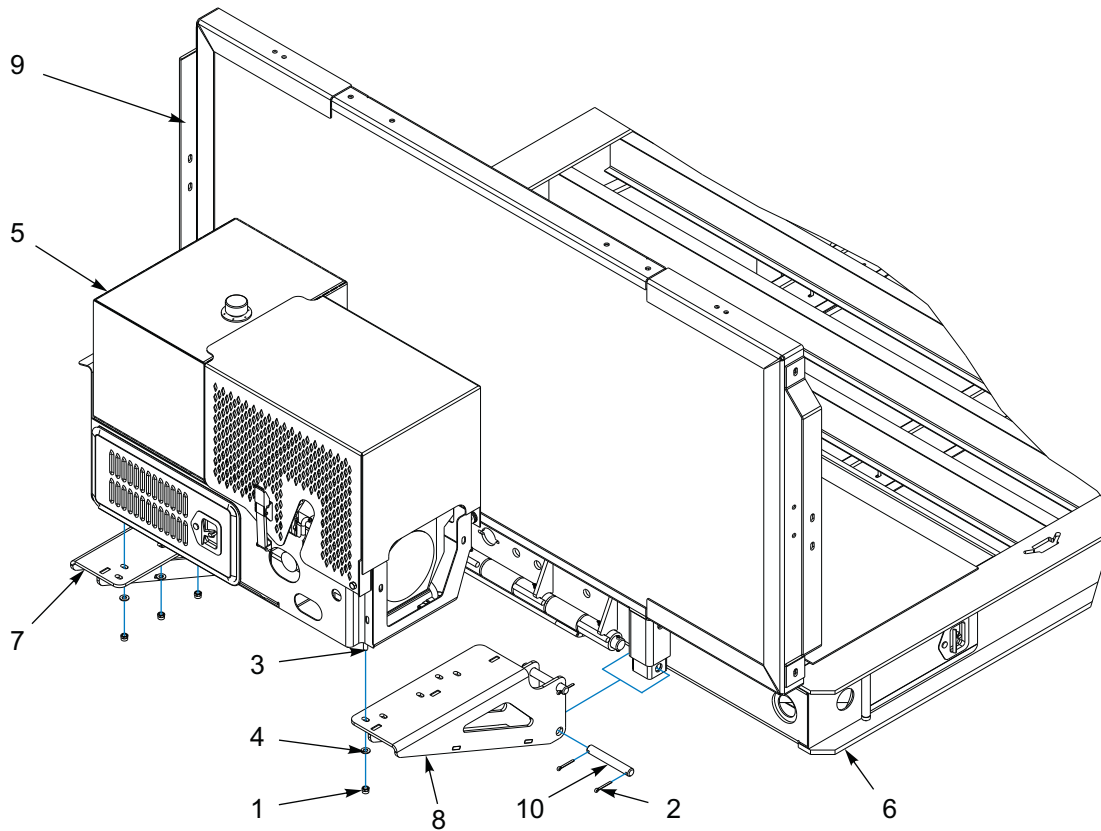


Figure 1-115: Front Mount Extension Package Installation

Front Mount Extension Package Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	147471	FRONT EXTENSION ENGINE PKG MOUNT INSTALLATION	--
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	5
2	1-557-010362-63	PIN, COTTER 1/4 X 2	8
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	5
4	1-861-010032-14	WASHER, FLAT 1/2N	10
5	123166	ENGINE PKG 27 HP U/D (SEE PAGE 1-190)	--
6	-----	FRAME ASSEMBLY, G/N	--
7	147468	BRACKET WELDMENT, RH ENG MOUNT	1
8	147469	BRACKET WELDMENT, LH ENG MOUNT	1
9	3-141-010121-2	BULKHEAD INSTALLATION (SEE PAGE 1-162)	--
10	3-557-010380	PIN, 1 X 6-7/8	4

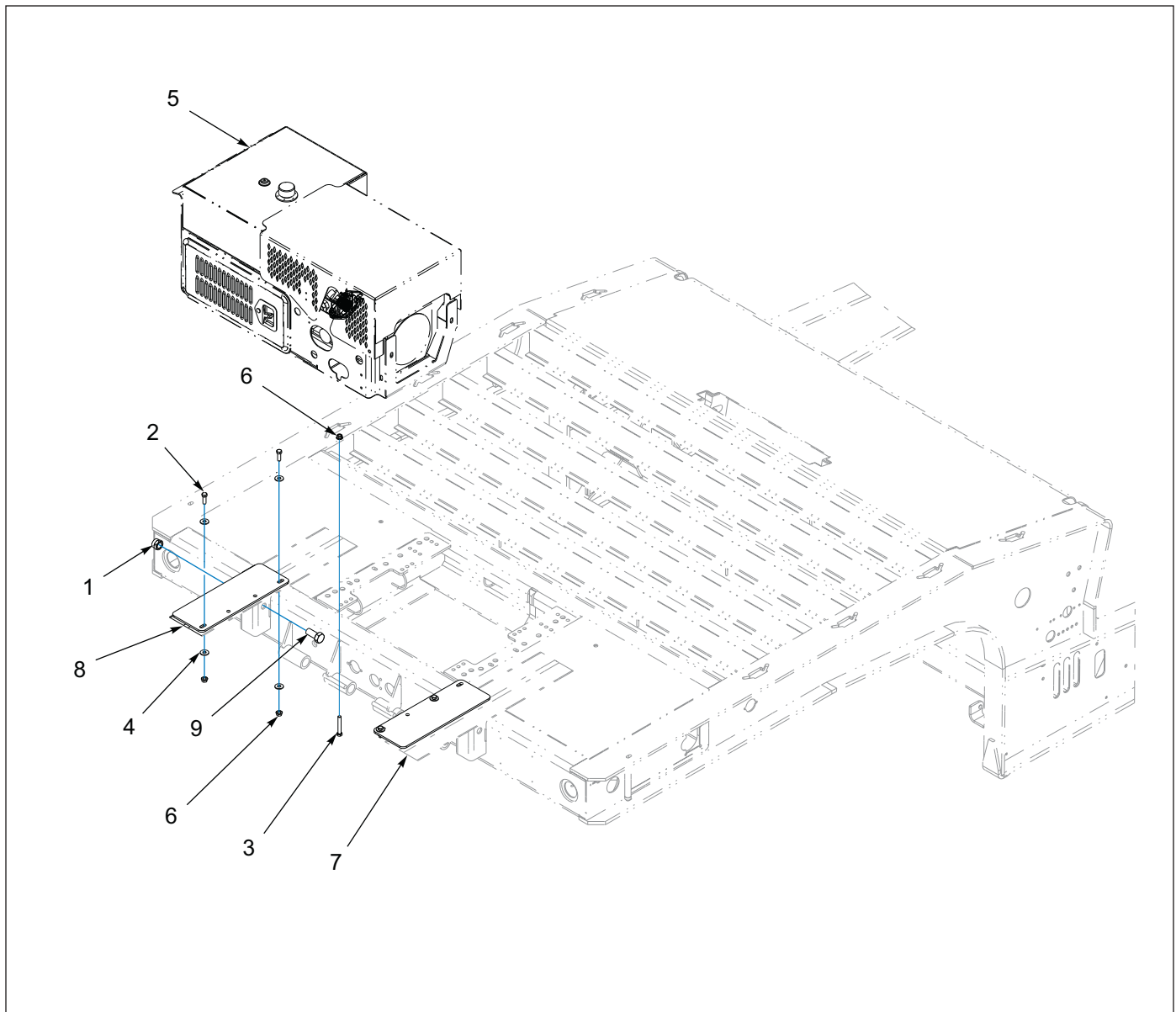


Figure 1-116: Front Mount Installation

Front Mount Installation

ITEM	PART NUMBER	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	123166	ENGINE PACKAGE 27 HP U/D (SEE PAGE 1-190)	--
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	130662	GOOSENECK WELDMENT	--
8	136581	MOUNT WELDMENT LH FRONT ENGINE PACKAGE	1
9	136582	MOUNT WELDMENT RH FRONT ENGINE PACKAGE	1
10	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

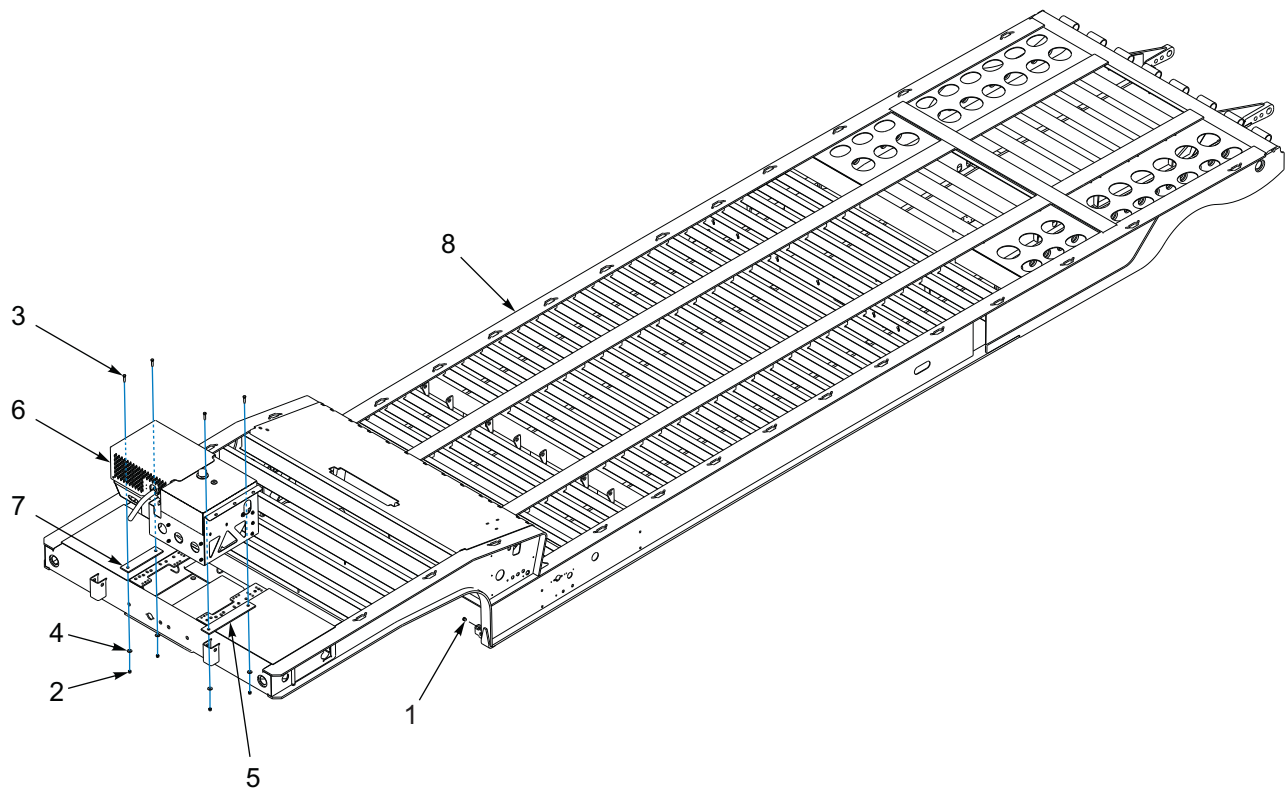


Figure 1-117: Mount Package W/O Winch

Mount Package W/O Winch

ITEM	PART NUMBER	DESCRIPTION	QTY.
	148949	ENGINE MOUNT PACKAGE W/O WINCH	--
1	1-007-010025	PLUG, 3/4-16	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	4
5	120478	PLATE, U/D ENGINEMOUNT	1
6	123166	ENGINE PACKAGE, 27 HP U/D (SEE PAGE 1-190)	--
7	124555	PLATE, U/D ENGINE MOUNT	1
8	-----	FRAME WELDMENT	--

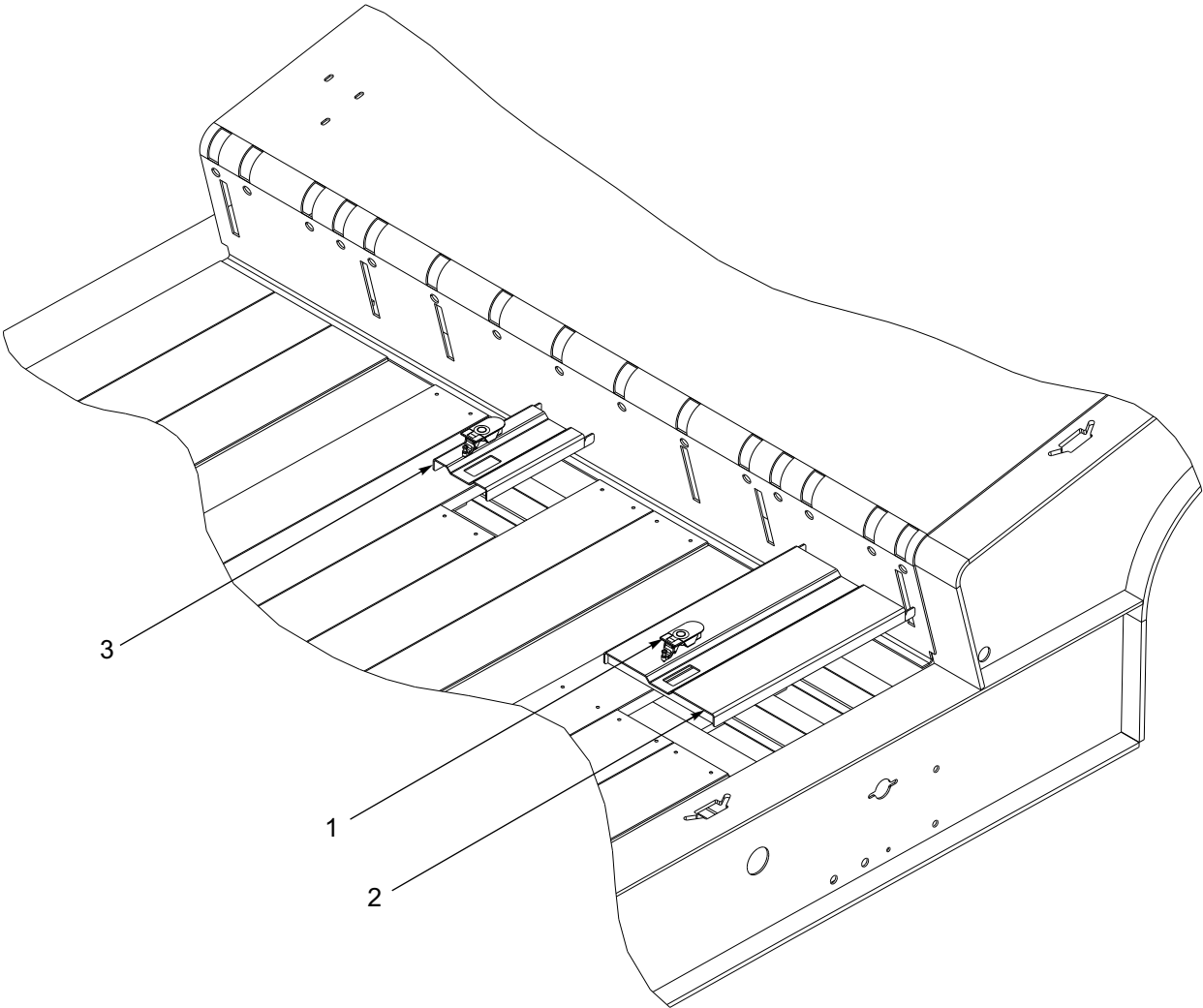


Figure 1-118: Slope Cover Installation (Used On Trailers W/O Ramp)

Slope Cover Installation (Used On Trailers W/O Ramp)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	140820	SLOPE ENGINE COVER INSTALLATION	--
1	121526	LATCH, COMPRESSION	2
2	140821	COVER WELDMENT, ENGINE	1
3	140824	COVER, HYD TANK	1

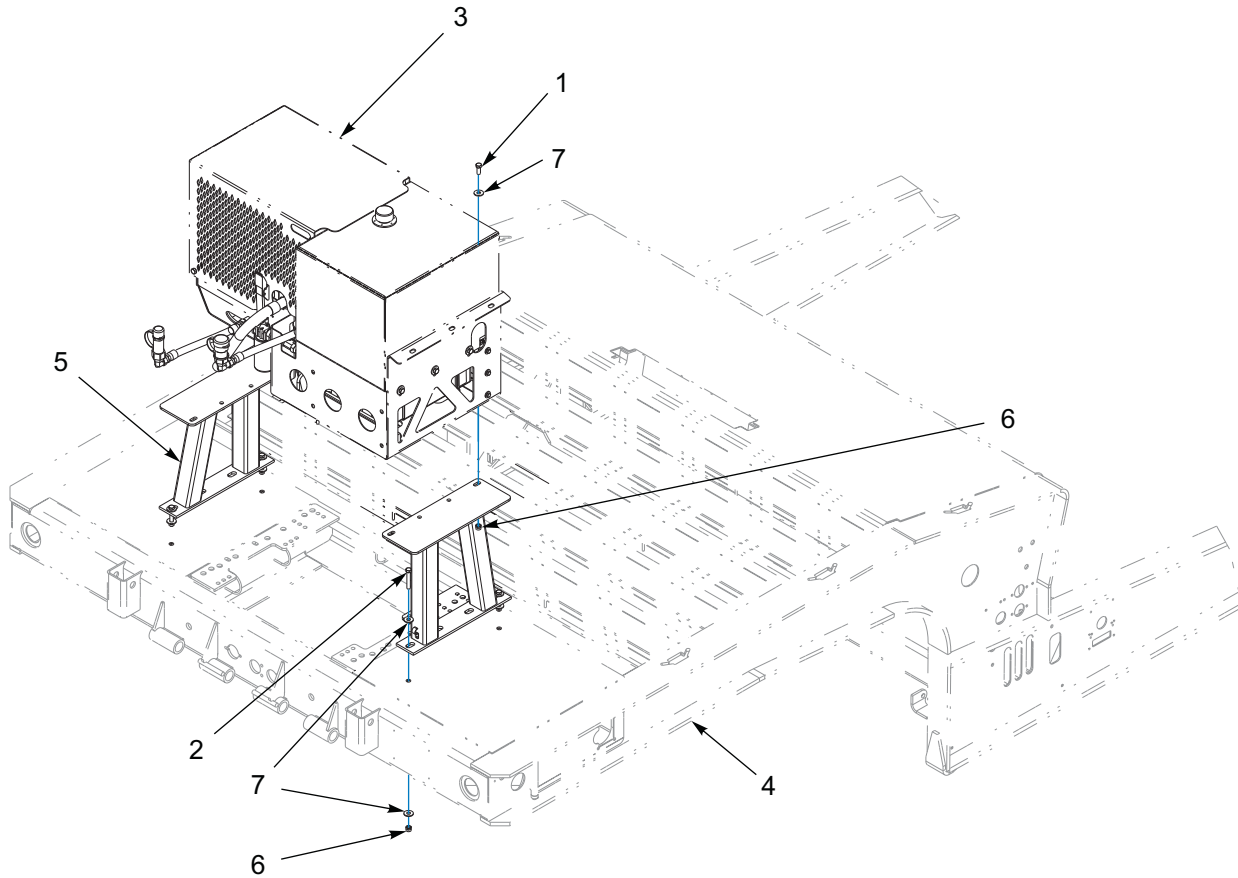


Figure 1-119: Upper Deck Stand Installation

Upper Deck Stand Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	136578	UPPER DECK STAND INSTALLATION	--
1	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
2	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	4
3	123166	ENG PKG 27 HP U/D 317 (SEE PAGE 1-190)	--
4	-----	UPPER DECK FRAME WELDMENT	--
5	134857	MOUNT WLDMT ENG PKG 318-186	2
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	16

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System, Hydraulics

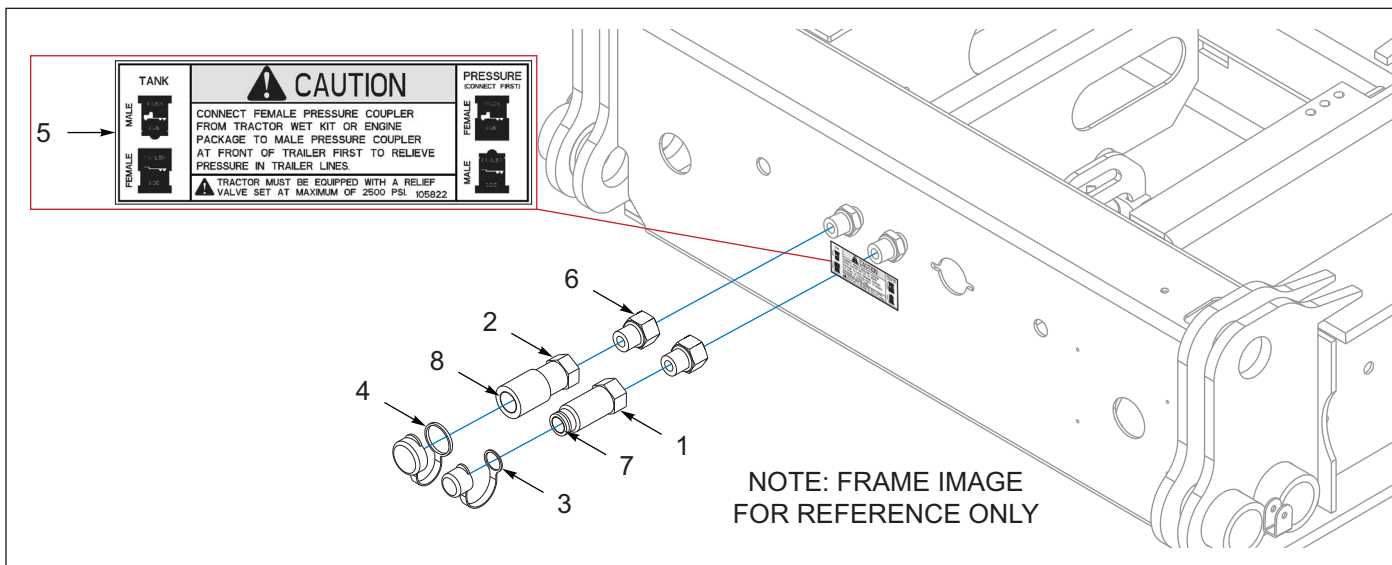


Figure 1-120: Hydraulic Conversion Kit - Ball to Flat

Hydraulic Conversion Kit - Ball to Flat

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

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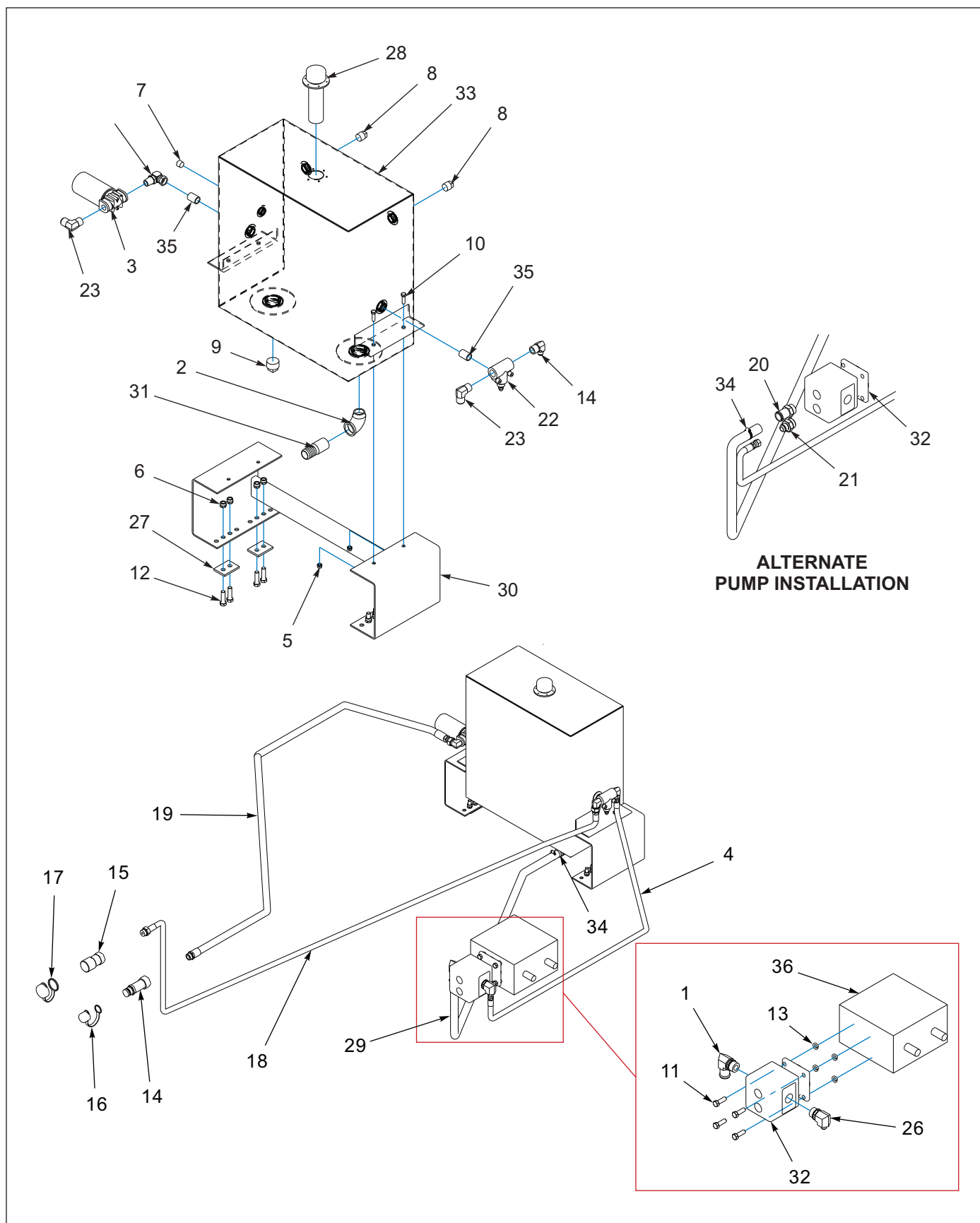


Figure 1-121: Hydraulic Wet Kit Items - 30 Gallon

Hydraulic Wet Kit Items - 30 Gallon

ITEM	PART NUMBER	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 1-212) (BEFORE 03/01/2022 -SILVER BODY)	1
14	239677	COUPLER FL FACE ISO -12 MALE (PARTS - SEE PAGE 1-212) (AFTER 03/01/2022- BLACK BODY)	1
15	105480	COUPLER FLAT FACE FEMALE BODY (PARTS - SEE PAGE 1-212) (BEFORE 03/01/2022)	1
15	239678	COUPLER FL FACE ISO -12 FEMALE (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-BREATHES-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	--

Lights - Options

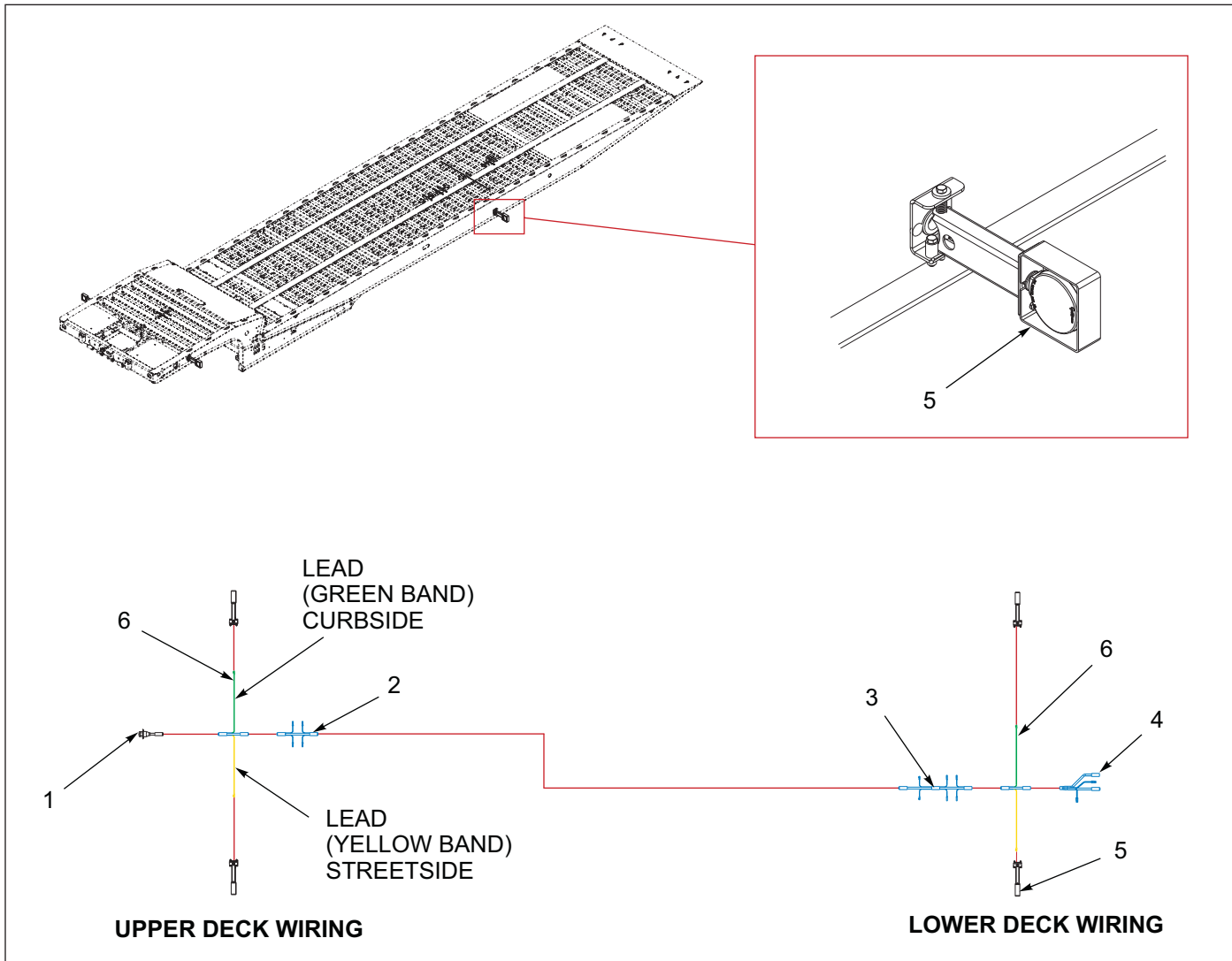


Figure 1-122: Swingout Light Installation

Swingout Light Installation

ITEM	PART NUMBER	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	143100	HARNESS 7WAY RECP GROTE	--	--	--
2	143101	HARNESS FRONT MAIN GROTE	--	--	--
3	143102	HARNESS BED MAIN GROTE	--	--	--
4	143103	HARNESS ECHAIN GROTE	--	--	--
5	176420	LIGHT ASSY SWING-ARM (SEE PAGE 1-217)	4	2	2
6	176432	HARNESS, JUMPER, EMERGENCY FLA	2	1	1
7	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0 (NOT SHOWN)	--	--	--

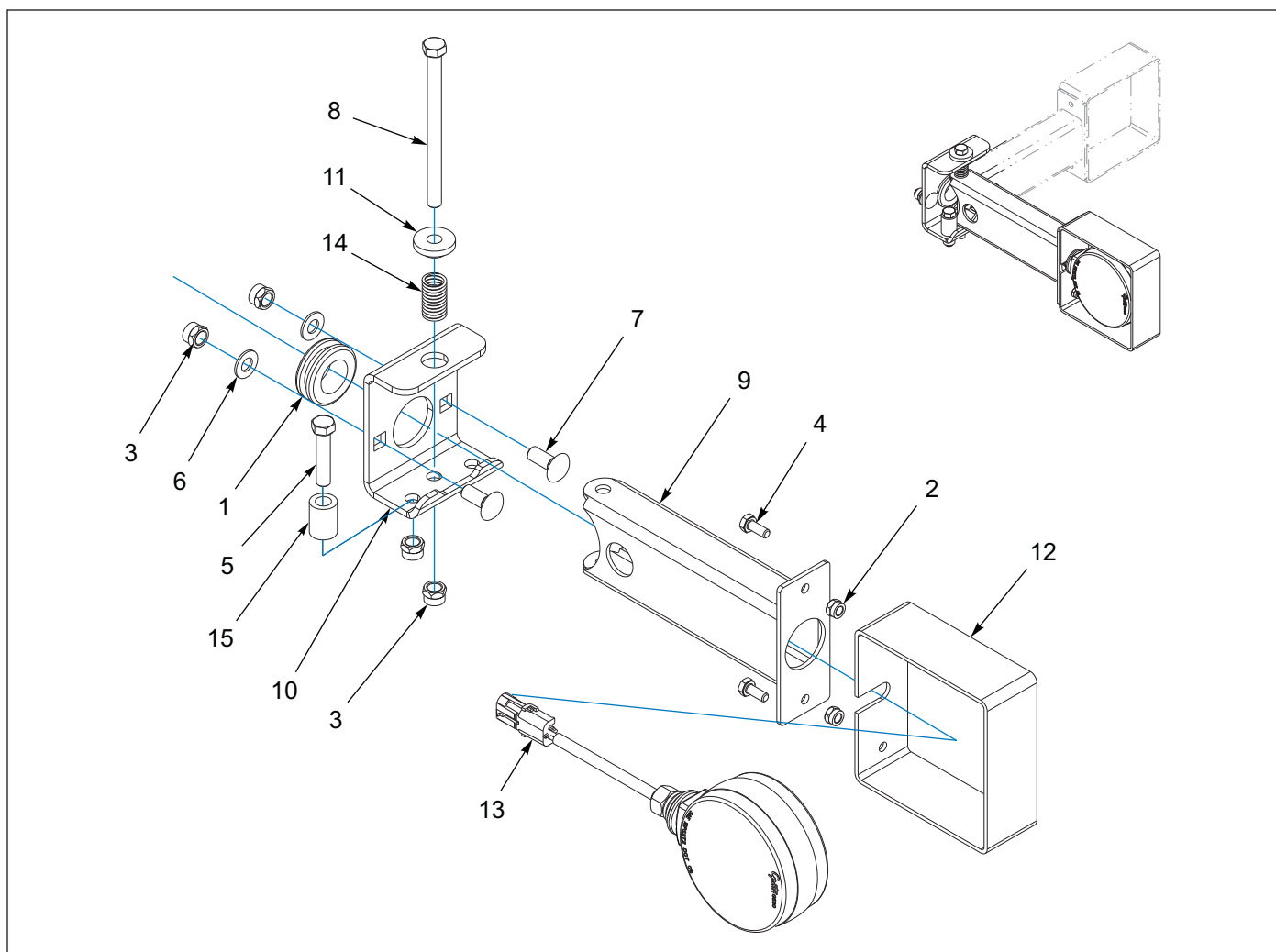


Figure 1-123: Swing-Arm Light Assembly - Turn Signal/Emergency Flasher

Swing-Arm Light Assembly - Turn Signal/Emergency Flasher

ITEM	PART NUMBER	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

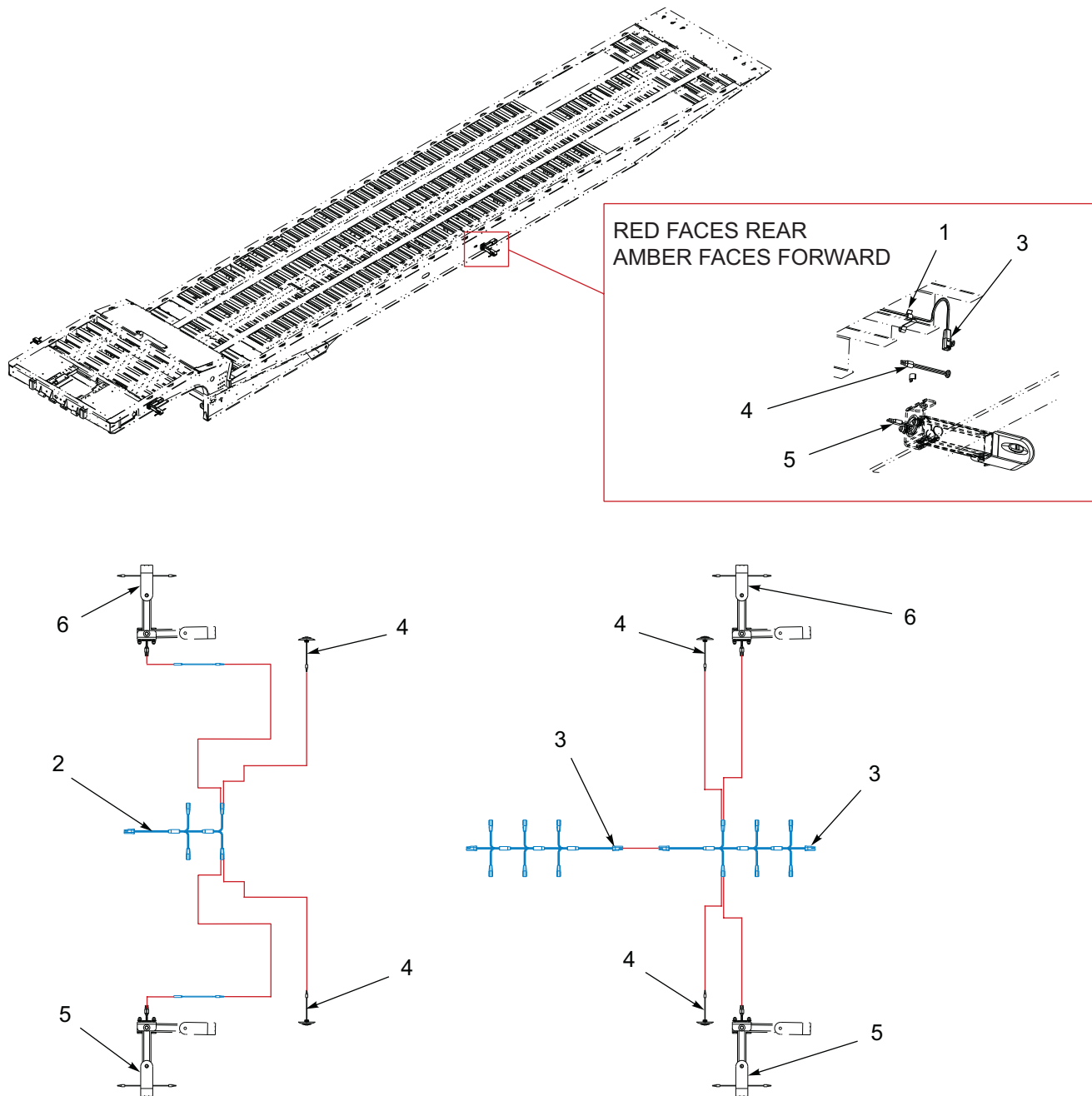


Figure 1-124: Swingout Marker Light Installation - Red/Amber

Swingout Marker Light Installation - Red/Amber

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	191557	INSTL,SWING-OUT MARKER LIGHT, LWR DK	--		
	191558	INSTL, SWING-OUT MARKER LIGHT, UPR DK		--	
	191559	INSTL, SWING-OUT MARKER LIGHT, LWR DK & UPR DK			--
1	186901	GOOSENECK WLDMT, US 400	--	--	--
2	187833	CLIP HARNESS, CROSS-MEMBER	--	--	--
3	187855	HARNESS MARKER UPR DECK	--	--	--
4	187856	HARNESS MARKER MID DECK	--	--	--
5	213297	LIGHT YEL LED.75CL/MK CLEAR CB	--	--	--
6	189015	FRAME WLDMT 440A-53-102	--	--	--
7	191555	LIGHT ASSY,SWING-ARM MKR,STREET(SEE PAGE 1-220)	1	1	2
8	191556	LIGHT ASSY,SWING-ARM MKR,CURB (SEE PAGE 1-221)	1	1	2
9	191569	HARNESS MARKER LAMP MICRONOVA	--	2	2

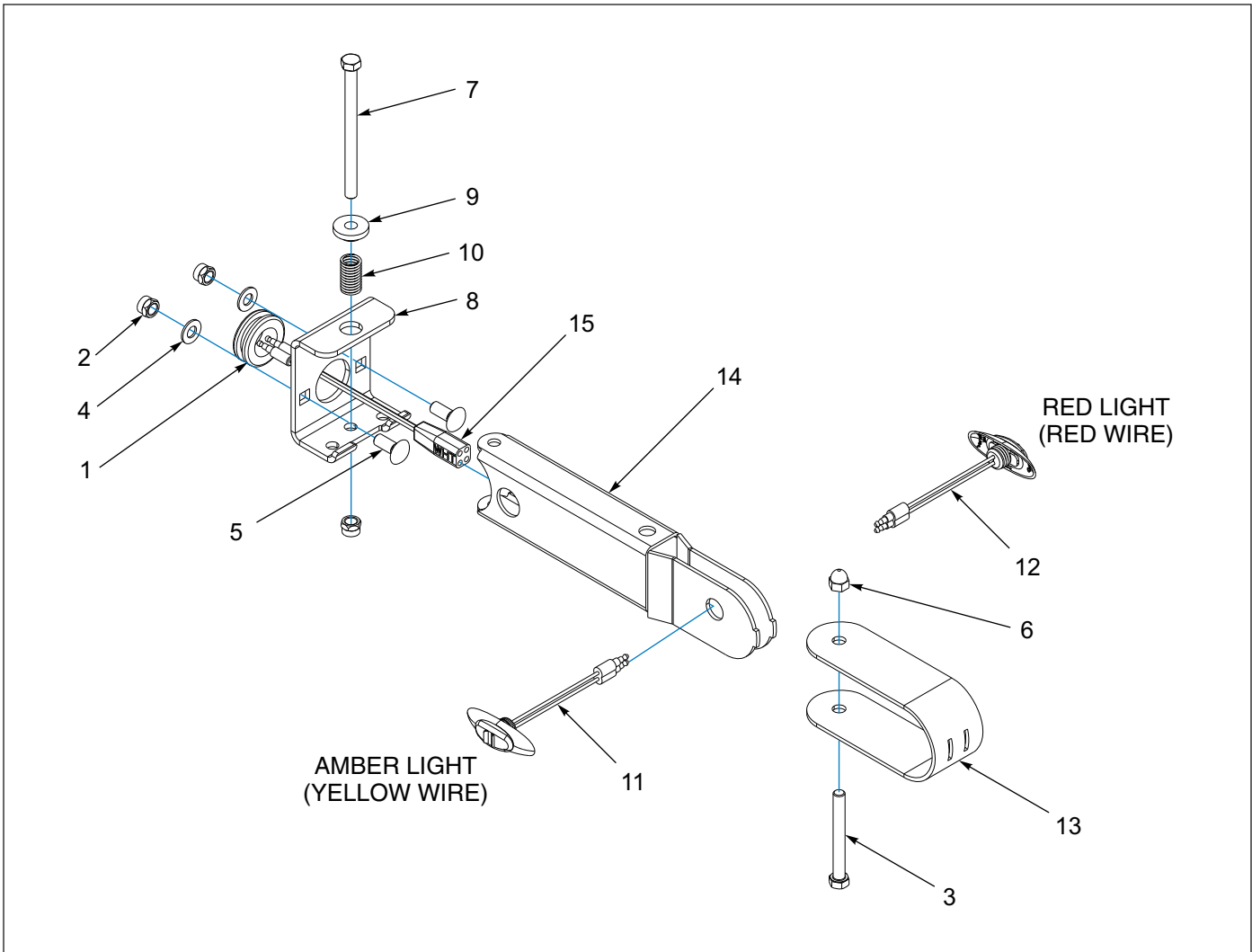


Figure 1-125: Swing-Arm Light Assembly - STREET

Swing-Arm Marker Light Assembly - STREET

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191555	LIGHT ASSY, SWING-ARM MKR, ST	--
1	1-343-010007	GROMMET	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
3	1-654-010051-14	SCREW HX CP 3/8-16UNCX3-1/4G5	1
4	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
5	111276	SCREW RDHD SQNK 3/8-16X1 GR5	2
6	122154	NUT, HEX ACORN 3/8-16ZP	1
7	172882	SCREW HX CP 3/8-16UNCX5 GR5	1
8	176424	BRACKET MTG SWING-ARM LIGHT	1
9	176425	WASHER STEP	1
10	178389	SPRING, COMPRESSION SWINGARM	1
11	213297	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	213298	LIGHT RED LED.75CL/MK CLEAR CB	1
13	191552	GUARD SWING-OUT LIGHT	1
14	191554	SWING-ARM WLDMT MARKER LIGHT	1
15	191568	HARNESS MARKER LAMP MICRONOVA	1

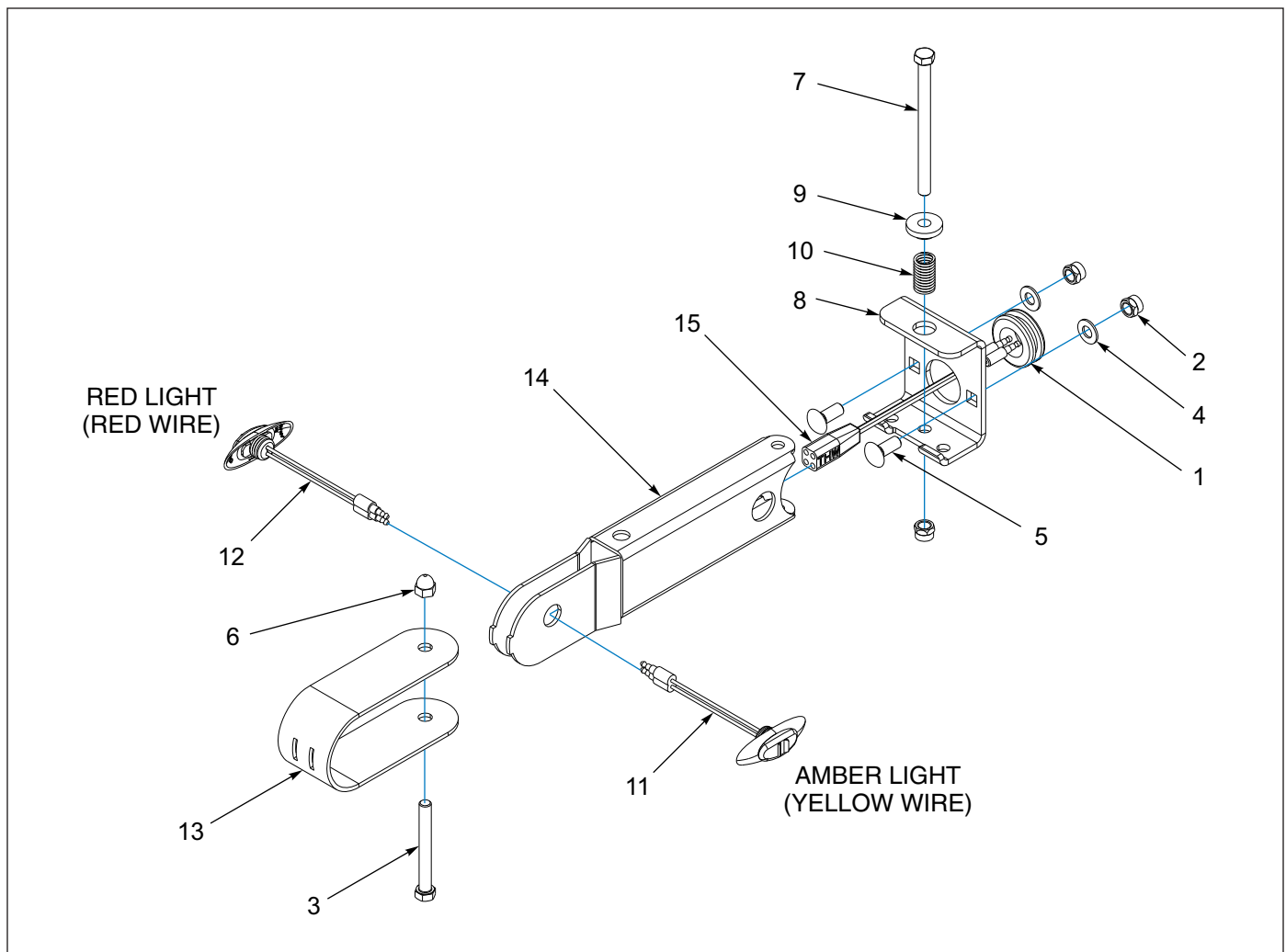


Figure 1-126: Swing-Arm Light Assembly - CURB

Swing-Arm Marker Light Assembly - CURB

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191556	LIGHT ASSY, SWING-ARM MKR, CURB	--
1	1-343-010007	GROMMET	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
3	1-654-010051-14	SCREW HX CP 3/8-16UNCX3-1/4G5	1
4	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
5	111276	SCREW RDHD SQNK 3/8-16X1 GR5	2
6	122154	NUT, HEX ACORN 3/8-16ZP	1
7	172882	SCREW HX CP 3/8-16UNCX5 GR5	1
8	176424	BRACKET MTG SWING-ARM LIGHT	1
9	176425	WASHER STEP	1
10	178389	SPRING, COMPRESSION SWINGARM	1
11	213297	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	213298	LIGHT RED LED.75CL/MK CLEAR CB	1
13	191552	GUARD SWING-OUT LIGHT	1
14	191554	SWING-ARM WLDMT MARKER LIGHT	1
15	191568	HARNESS MARKER LAMP MICRONOVA	1

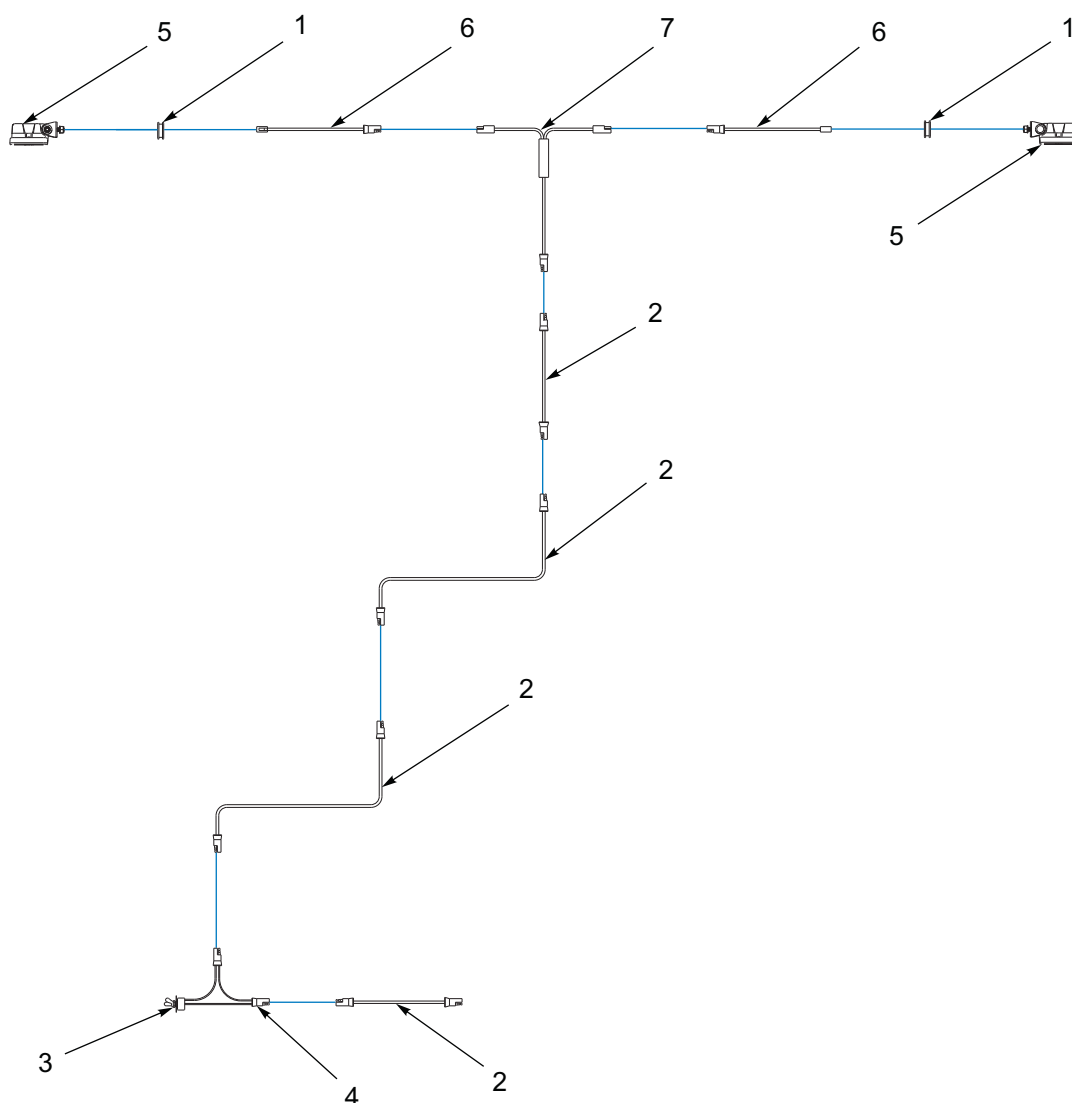


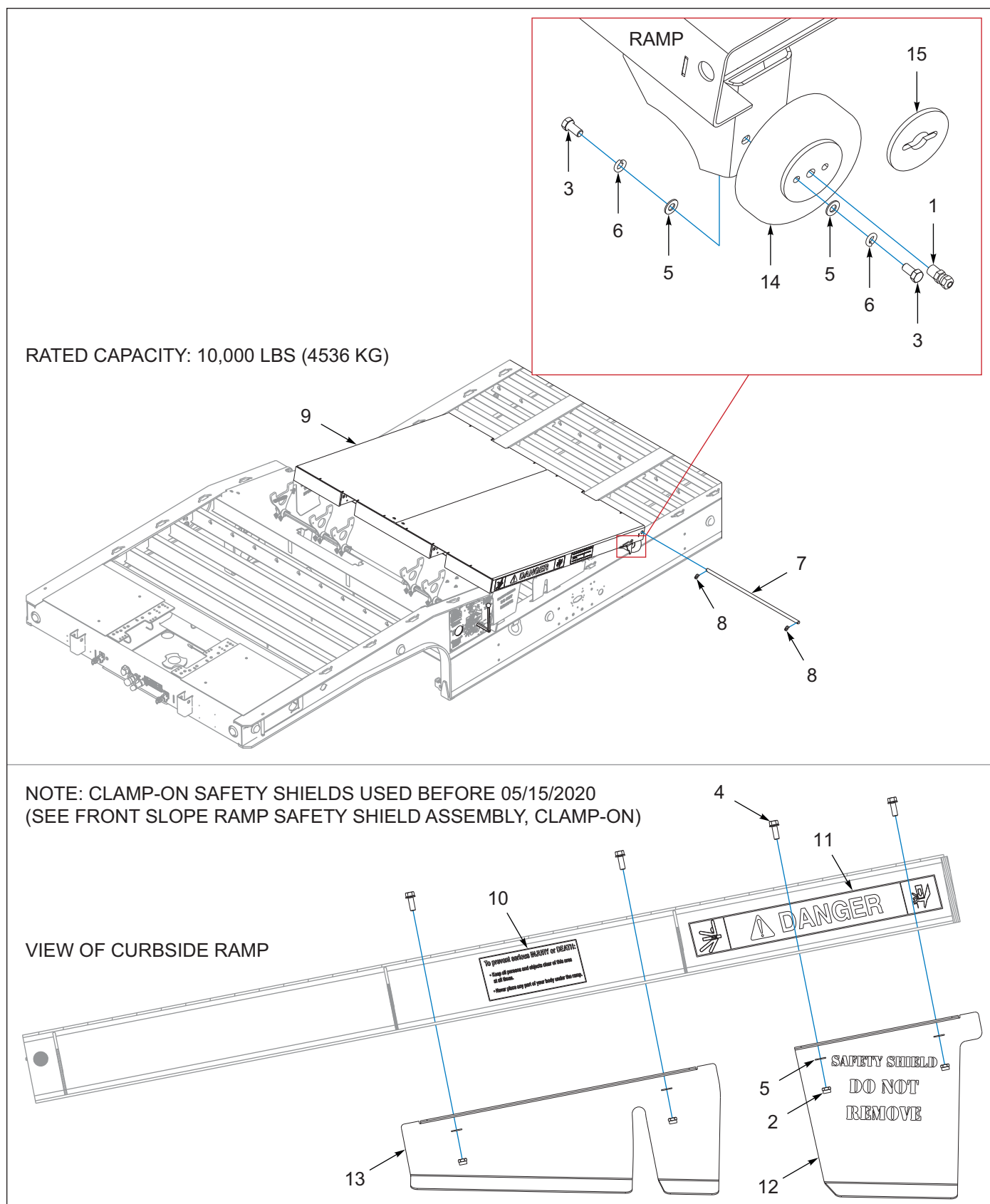
Figure 1-127: Winch Work Lights-191833

Winch Work Lights

ITEM	PART NUMBER	DESCRIPTION	QTY
--	191833	LIGHT INSTYL WORK WINCH	--
1	1-343-010011	GROMMET 3/8	2
2	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	4
3	81264	RUBBER BOOT FOR ELECT SWITCH	1
4	150117	SWITCH ASSY LIGHT GROTE	1
5	163996	LIGHT,12V SQUARE LED FLOOD	2
6	164052	HARNESS,60"BRANCH,WORK LIGHT	2
7	169853	HARNESS T PWR BRANCH	1

[illegible]

Ramp Assemblies - Options



Front Slope, 6FT Air (BEFORE 03/11/2021)

ITEM	PART NUMBER	DESCRIPTION	QTY
	139465	RAMP ASSY 6FT 930B D/D (89" WIDE)	- -
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	5
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	8
3	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	20
4	1-655-010003-05	SCREW,FLANGE HD 3/8-16X1 GR8	8
5	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	28
6	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	20
7	113532	PIN, RAMP HINGE 900	2
8	134912	PIN, LYNCH 1/4 X 1-1/4	4
9	139464	RAMP WLDMT 6FT 930B D/D	1
10	225921	DECAL DANGER RAMP	2
11	225922	DECAL DANGER	2
12	226726	SAFETY SHIELD, FRONT DS YELLOW (STREETSIDE)	1
12	226728	SAFETY SHIELD, FRONT PS YELLOW (CURBSIDE)	1
13	226727	SAFETY SHIELD, REAR DS YELLOW (STREETSIDE)	1
13	226729	SAFETY SHIELD, REAR PS YELLOW (CURBSIDE)	1
14	3-720-010042	SPRING AIR 6-1/2	5
15	140372	SPACER 1/4" SHIM AIR SPRING (DOUBLE DROP DECK ONLY) (AFTER 07/27/2021, NO LONGER USED)	5

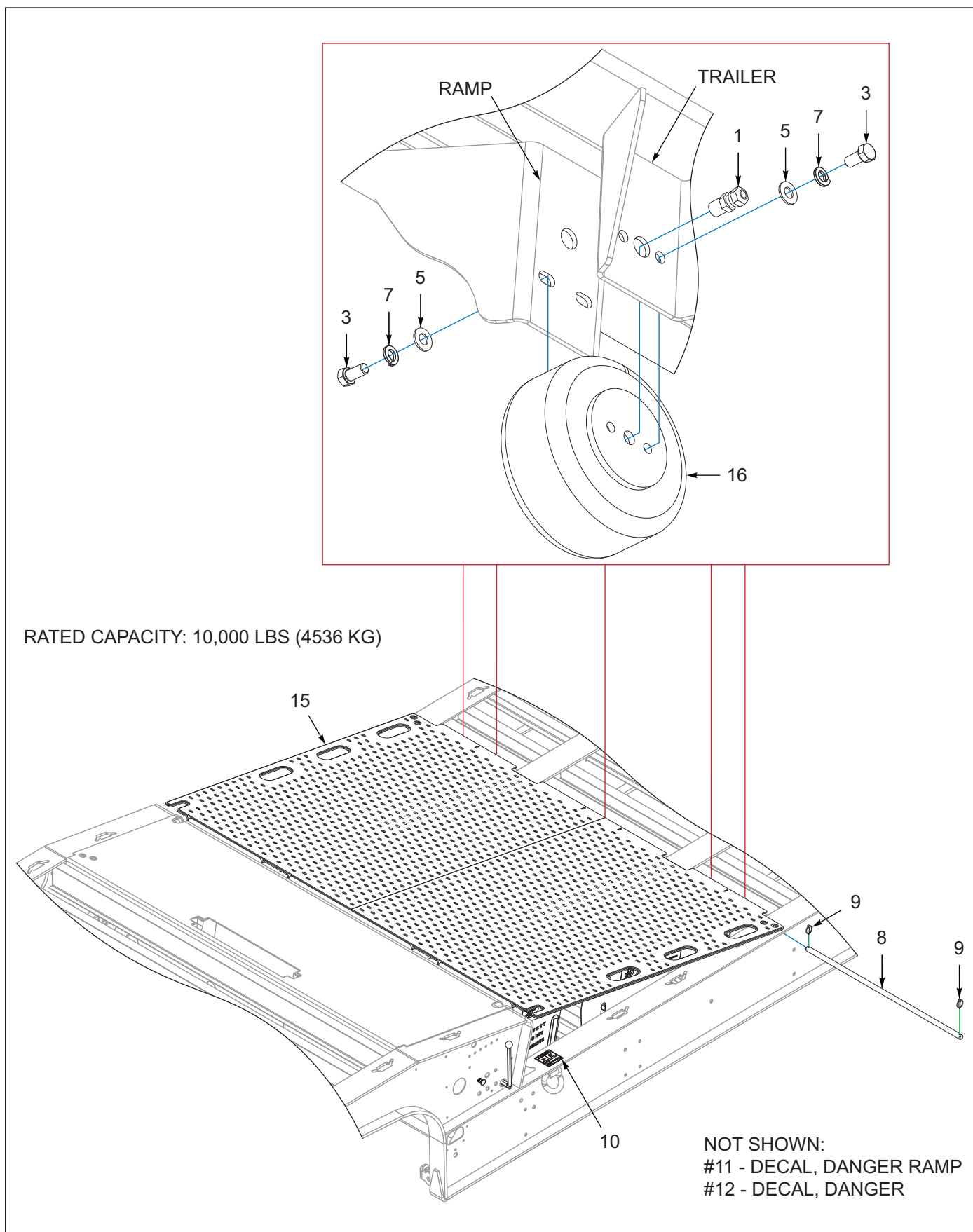


Figure 1-129: Front Slope, 6FT Air (1 of 2) (AFTER 03/11/2021)

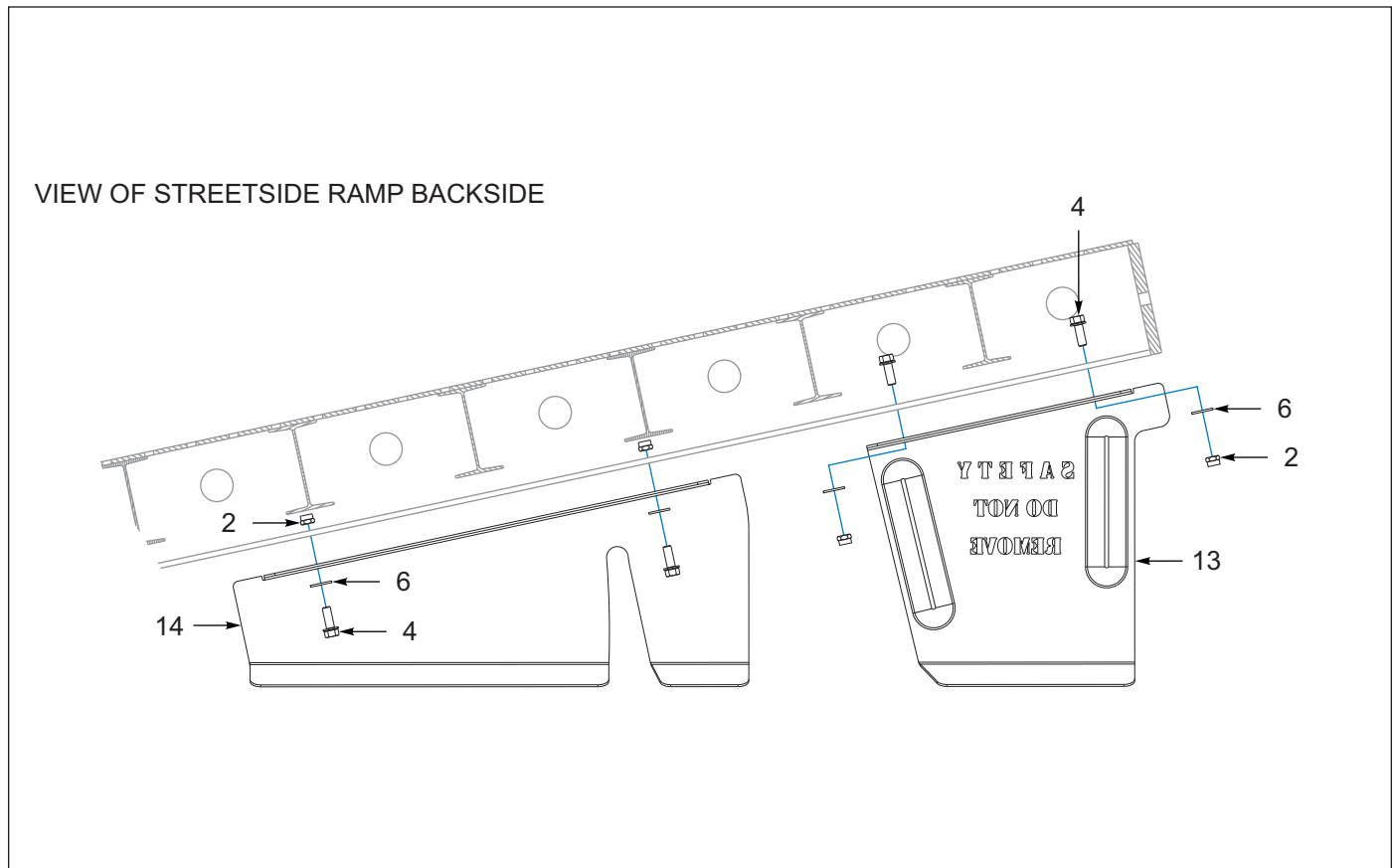


Figure 1-130: Front Slope, 6FT Air (2 of 2) (AFTER 03/11/2021)

Front Slope, 6FT Air (AFTER 03/11/2021)

ITEM	PART NUMBER	DESCRIPTION	QTY
	230695	RAMP INSTL 900 6FT 102" TRLCLR (102" WIDE)	--
	230696	RAMP INSTL 900 6FT 102" GALV (102" WIDE)	--
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	5
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	8
3	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	20
4	1-655-010003-05	SCREW,FLANGE HD 3/8-16X1 GR8	8
5	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	20
6	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	8
7	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	20
8	113532	PIN, RAMP HINGE 900	2
9	134912	PIN, LYNCH 1/4 X 1-1/4	4
10	2-573-010335	DECAL, DANGER PINCHING (DECALS - SEE PAGE 1-9)	2
11	225921	DECAL DANGER RAMP (NOT SHOWN - SEE PAGE 1-9)	2
12	225922	DECAL DANGER (NOT SHOWN - SEE PAGE 1-9)	2
13	226726	SAFETY SHIELD, FRONT DS YELLOW (STREETSIDE)	1
13	226728	SAFETY SHIELD, FRONT PS YELLOW (CURBSIDE)	1
14	226727	SAFETY SHIELD, REAR DS YELLOW (STREETSIDE)	1
14	226729	SAFETY SHIELD, REAR PS YELLOW (CURBSIDE)	1
15	230698	RAMP 900 6FT 102" TRL CLR	1
15	230699	GALV OF 230697 (RMP 6FT 102)	1
16	3-720-010042	SPRING AIR 6-1/2 (AIR SYSTEM - SEE PAGE 1-233)	5

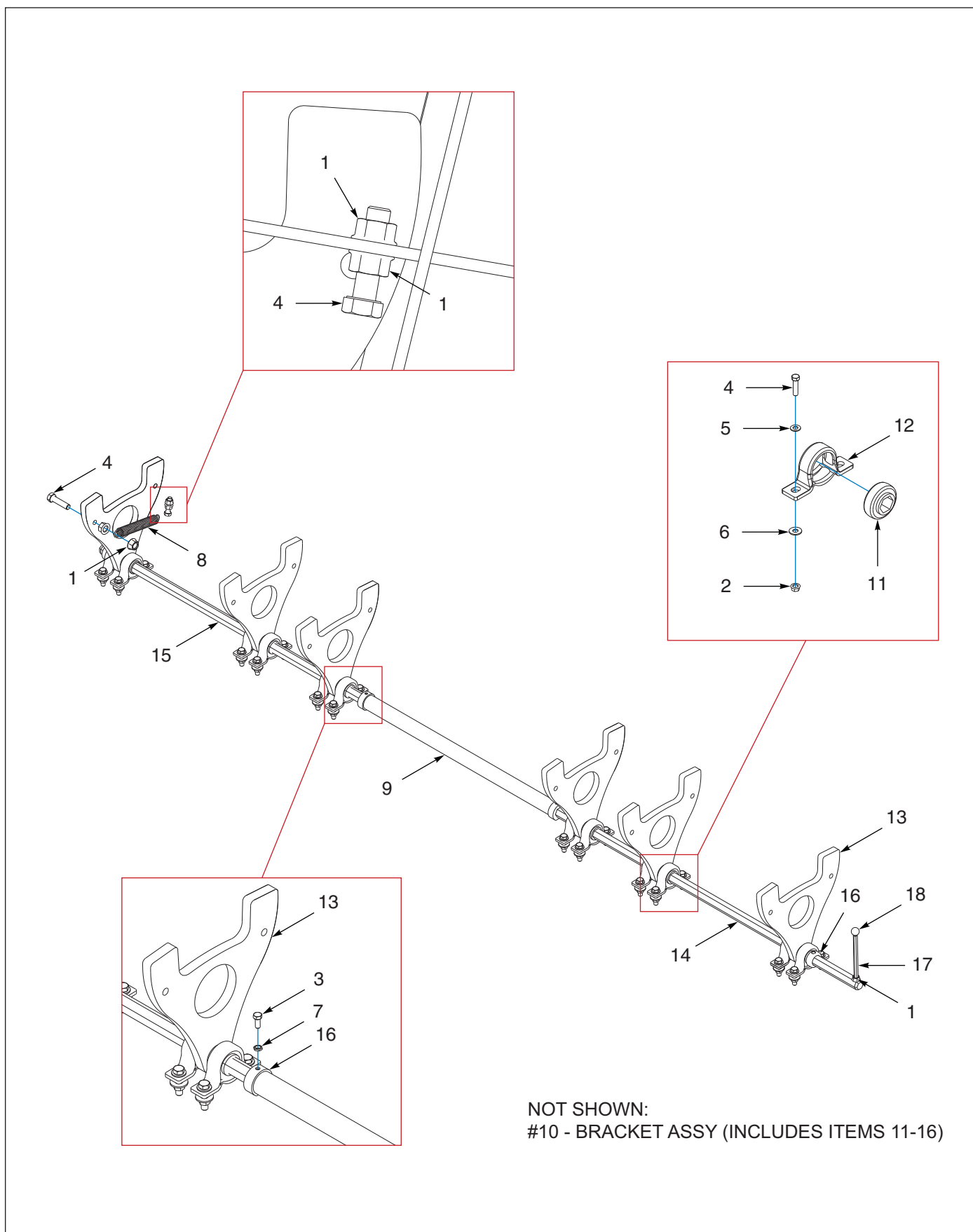


Figure 1-131: Front Slope, 6FT Air, Support (BEFORE 03/11/2021)

Front Slope, 6FT Air, Support (BEFORE 03/11/2021)

ITEM	PART NUMBER	DESCRIPTION	QTY
	139465	RAMP ASSY 6FT 930B D/D (89" WIDE)	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G (BEFORE 05/18/2020, HANDLE REQ 1 EACH-JAM NUT)	4
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	24
3	107-0975	SCREW SET LOCK 5/16 -18X3/8LG (BEFORE 06/22/2020)	4
3	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5 (AFTER 06/22/2020)	4
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	26
5	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	24
6	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24
7	112-1550	5/16-18 HEX JAM NUT ZP	2
8	129985	SPRING EXTENSION 7/8X6X.091	1
9	137069	COUPLER SHAFT RAMP LATCH WLDMT	1
10	141606	BRACKET ASSY 930 RAMP (INCLUDES ITEMS 11-16)	1
11	135357	BEARING SELF ALIGN 7/8HEX HD	12
12	135398	PILLOW BLOCK STAMPED 52MM	12
13	136225	LATCH WLDMT RAMP 930B	6
14	137065	SHAFT,LH HEX RAMP LATCH 930B (BEFORE 06/22/2020 - AFTER OBSOLETE)	--
14	229195	SHAFT, LH 1/2 HEX RAMP LATCH (AFTER 06/22/2020)	1
15	137066	SHAFT,RH HEX RAMP LATCH 930B	1
16	71503635	COLLAR,RETAINING 1"	4
17	108969	ROD,THREADED RAMP HDL (BEFORE 05/18/2020 - AFTER OBSOLETE)	--
17	225918	HANDLE RAMP (AFTER 05/18/2020 - BEFORE 06/22/2020)	1
17	229196	HANDLE RAMP - 1/2 (AFTER 06/22/2020)	1
18	3-360-010072	HANDLE PLASTIC BLACK (BEFORE 05/18/2020 - AFTER OBSOLETE)	--
18	95	BALL KNOB 3/8-24X1/2 DP (AFTER 05/22/2020)	1

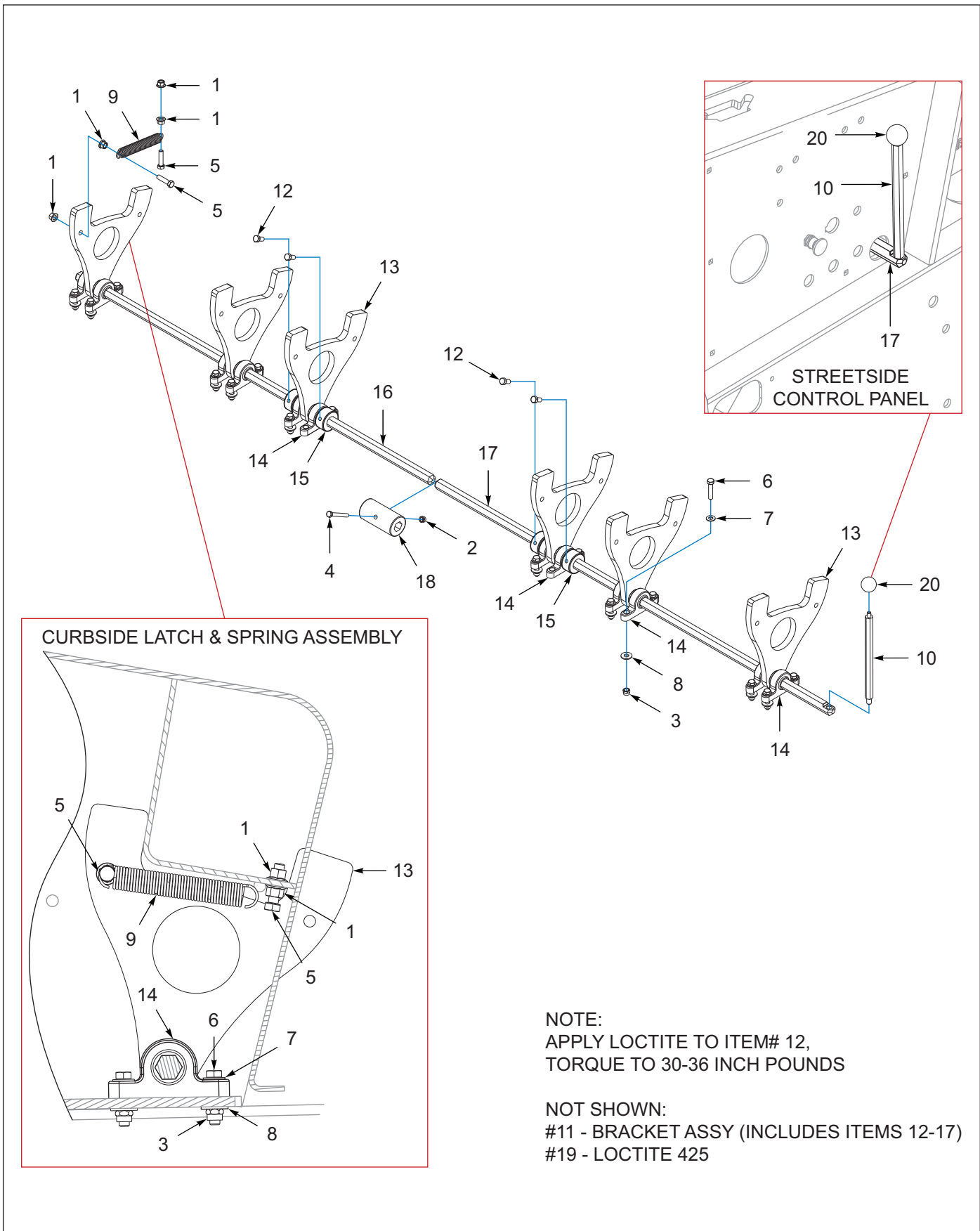


Figure 1-132: Front Slope, 6FT Air, Support (AFTER 03/11/2021)

Front Slope, 6FT Air, Support (AFTER 03/11/2021)

ITEM	PART NUMBER	DESCRIPTION	QTY
	230695	RAMP INSTL 900 6FT 102" TRLCLR (102" WIDE)	--
	230696	RAMP INSTL 900 6FT 102" GALV (102" WIDE)	--
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	1
3	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	24
4	1-654-010049-11	SCREW,HX CAP,5/16-18UNCX2-1/2	1
5	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	2
6	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G5	24
7	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	24
8	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24
9	129985	SPRING EXTENSION 7/8X6X.091	1
10	229196	HANDLE RAMP - 1/2	1
11	230700	BRACKET ASSY FRONT 900E RAMP (INCLUDES ITEMS 12-17)	1
12	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	4
13	136225	LATCH WLDMT RAMP 930B	6
14	230713	BEARING P/B SELF-ALIGN 7/8 HEX	12
15	230715	COLLAR RETAINING 1" ID NYLA	4
16	230717	SHAFT RH HEX RAMP 900E	1
17	230718	SHAFT LH 1/2 HEX RAMP 900E	1
18	230716	COUPLER 7/8" HEX SHAFT NYLA	1
19	230719	LOCTITE 425 PLASTIC THRD LKR	1
20	95	BALL KNOB 3/8-24X1/2 DP	1

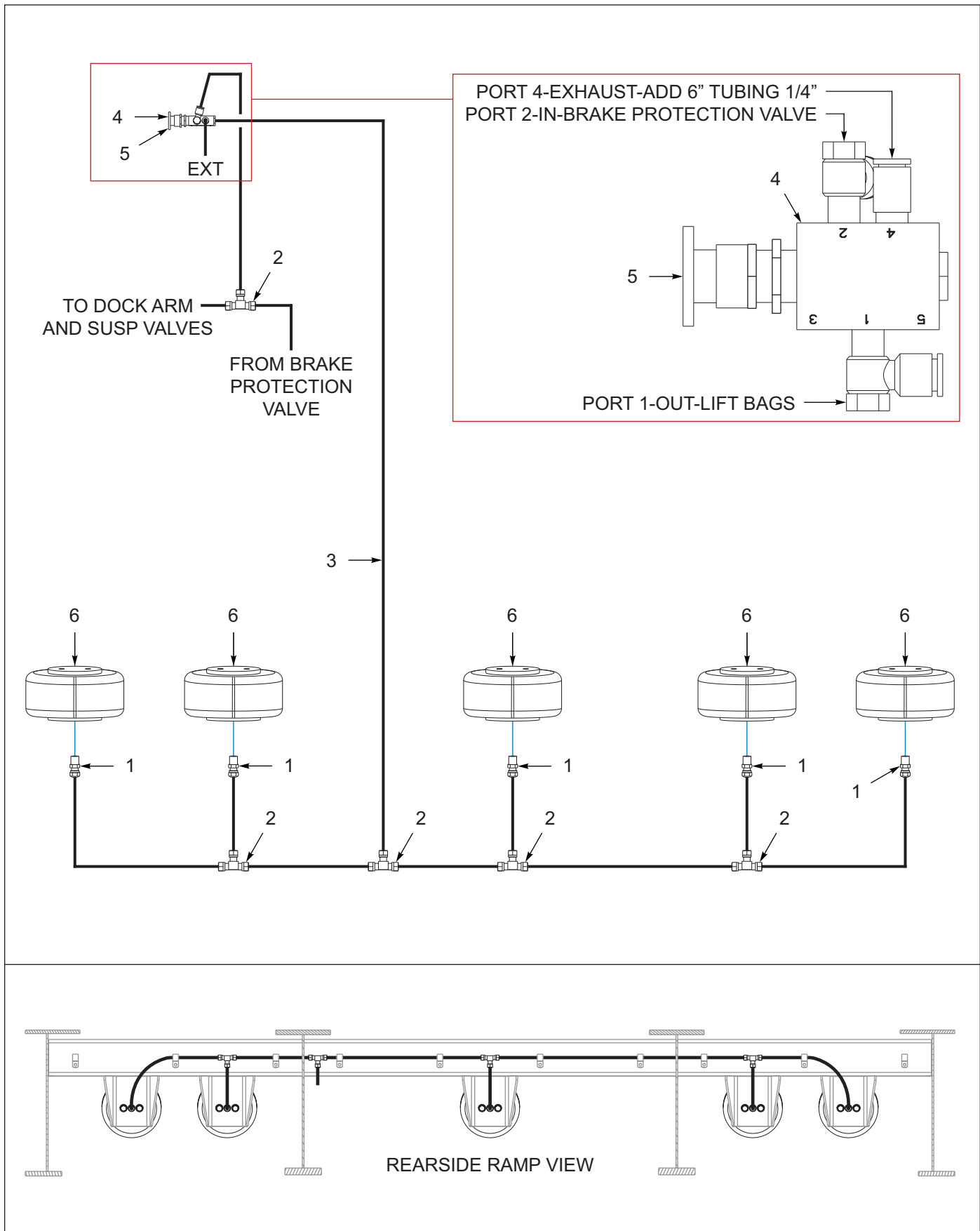


Figure 1-133: Front Slope, 6FT Air, Air System

Front Slope, 6FT Air, Air System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	139465	RAMP ASSY 6FT 930B D/D (89" WIDE)	--
	230695	RAMP INSTL 900 6FT 102" TRLCLR (102" WIDE)	--
	230696	RAMP INSTL 900 6FT 102" GALV (102" WIDE)	--
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	5
2	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	5
3	1-833-010001	TUBING NYLON 1/4 OD (BLACK) (BY THE FOOT)	23
4	107887	VALVE AIR PUSH BUTTON (INCLUDES ITEM 5)	1
5	213332	PUSH BUTTON PNEUMATIC VALVE (PART OF ITEM 4)	1
6	3-720-010042	SPRING AIR 6-1/2 (MOUNTING - SEE PAGE 1-227)	5

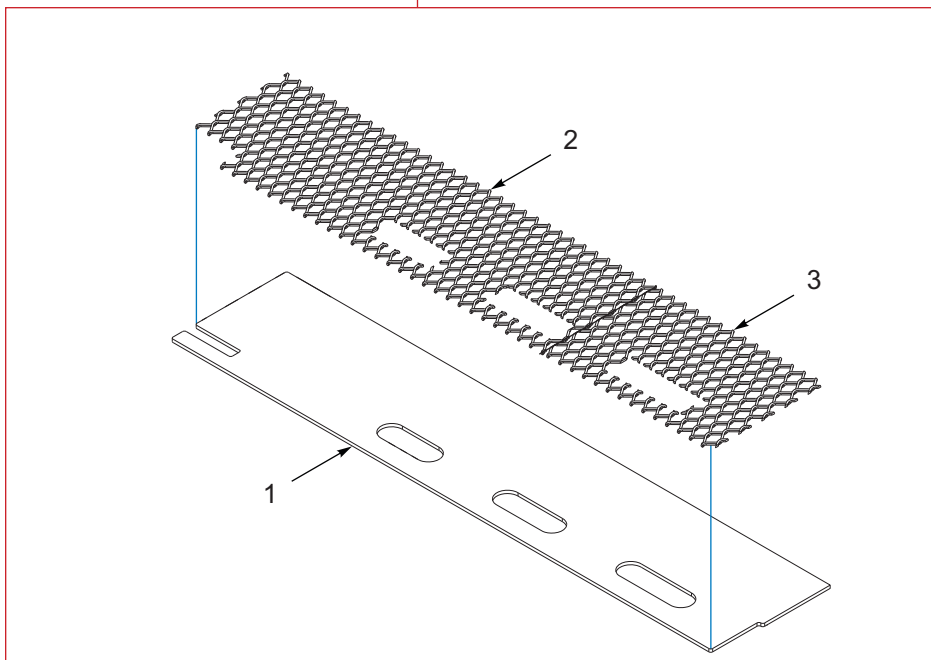


Figure 1-134: Front Slope, 6FT Air, Ramp Extensions, Tread (AFTER 05/13/2020)

Front Slope, 6FT Air, Ramp Extensions, Tread

ITEM	PART NUMBER	DESCRIPTION	QTY
	181546	RAMP WLDMT MOD 6' 900 (89" WIDE) (BEFORE 05/13/2020, REQ ITEMS 1-3) (REPLACED BY 213999)	--
	213999	RAMP WLDMT 6FT EXP-EXT (89" WIDE) (AFTER 05/13/2020, REQ ITEMS 1-5) (REPLACED 181546)	--
	238220	RMP EXP MTL 900 STD 6' TRL CLR (102" WIDE STANDARD DECK)	--
	238221	GALV OF 233581(RMP 6' EXP MTL) (102" WIDE STANDARD DECK GALV)	--
	238222	RMP EXP MTL 900 DD 6' TRL CLR (102" WIDE DROP DECK)	--
	238223	GALV OF 233598(RMP 6' EXP MTL) (102" WIDE DROP DECK GALV)	--
1	181547	PLATE WIDTH EXT 6' RAMP (89" WIDE ONLY)	2
2	181548	EXP MTL,WIDTH EXT 6 RMP STREET (86" WIDE BEFORE 05/13/2020, REQ 2 EACH - AFTER CURBSIDE REPLACED BY ITEM 4)	1
2	233582	EXP MTL 6' RMP OTR LH FRONT (102" WIDE STANDARD DECK, SPECIFY IF ORDERING GALV)	1
2	233599	EXP MTL 6' DD RMP OTR LH FRONT (102" WIDE DROP DECK, SPECIFY IF ORDERING GALV)	1
3	182459	EXP MTL, 21-3/4X14-3/4 STREET (86" WIDE BEFORE 05/13/2020, REQ 2 EACH - AFTER CURBSIDE REPLACED BY ITEM 5)	1
3	233583	EXP MTL 6' RMP OTR LH REAR (102" WIDE STANDARD DECK, SPECIFY IF ORDERING GALV)	1
3	233600	EXP MTL 6' DD RMP OTR LH REAR (102" WIDE DROP DECK, SPECIFY IF ORDERING GALV)	1
4	227524	EXP MTL, WIDTH EXT 6RMP CURB (89" WIDE)	1
4	233584	EXP MTL 6' RMP OTR RH FRONT (102" WIDE STANDARD DECK, SPECIFY IF ORDERING GALV)	1
4	233601	EXP MTL 6' DD RMP OTR RH FRONT (102" WIDE DROP DECK, SPECIFY IF ORDERING GALV)	1
5	227525	EXP MTL,21-3/4X14-3/4 CURB (89" WIDE)	1
5	233585	EXP MTL 6' RMP OTR RH REAR (102" WIDE STANDARD DECK, SPECIFY IF ORDERING GALV)	1
5	233602	EXP MTL 6' DD RMP OTR RH REAR (102" WIDE DROP DECK, SPECIFY IF ORDERING GALV)	1

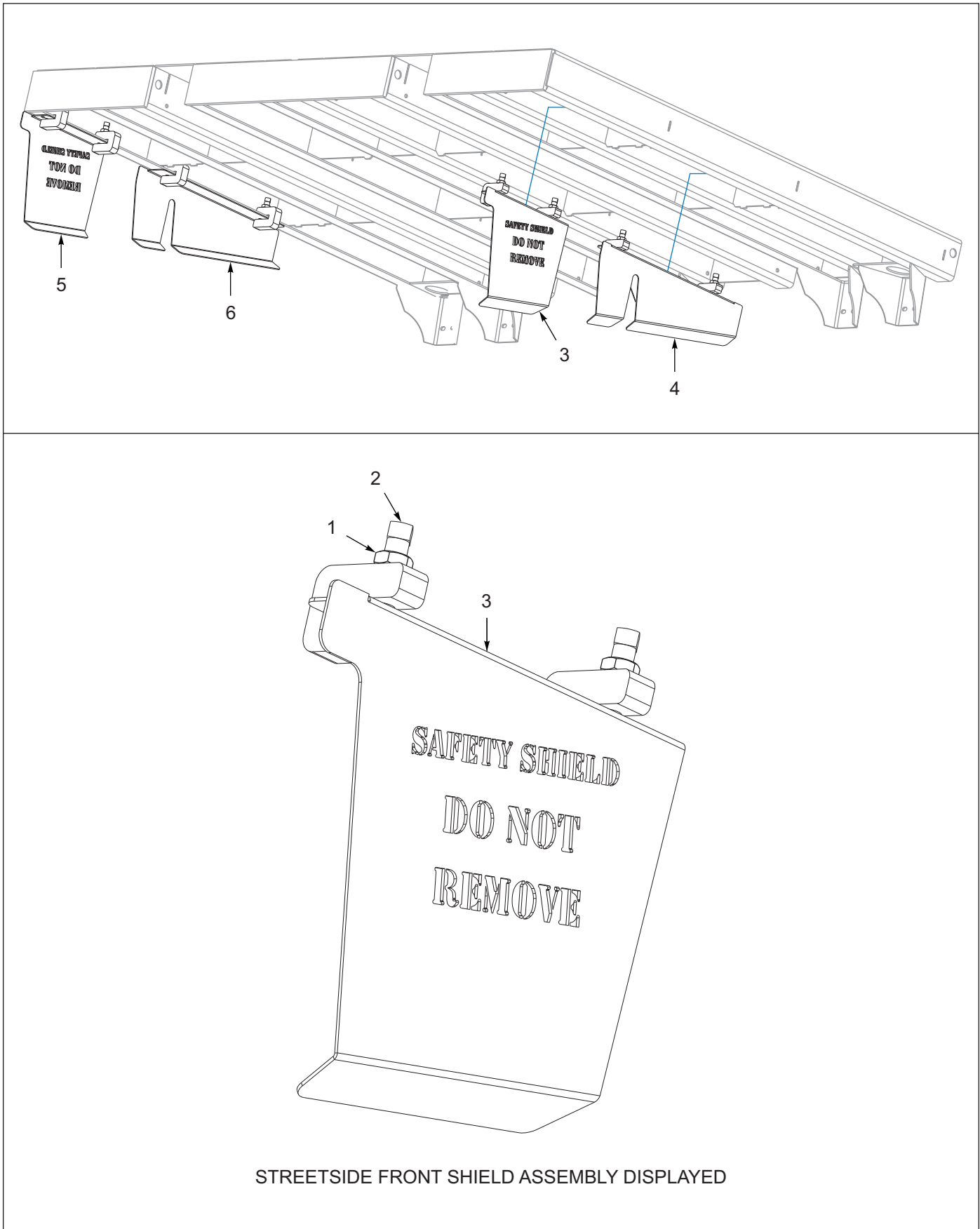


Figure 1-135: Front Slope, 6FT Air, Safety Shield Assembly, Clamp-On

Front Slope, 6FT Air, Safety Shield Assembly, Clamp-on

ITEM	PART NUMBER	DESCRIPTION	QTY
	229162	930 TRAILER SHIELD FIELD INSTL (INCLUDES ITEMS 1-6)	1
1	1-511-010001-07	NUT, HEX JAM 5/8-11	8
2	1-654-010150-05	SCREW,SET,5/8X2 SQ HD CP PNT	8
3	229163	WLDMT, SAFETY SHIELD, FRONT DS (STREETSIDE FRONT)	1
4	229165	WLDMT,SAFETY SHIELD,REAR DS (STREETSIDE REAR)	1
5	229167	WLDMT,SAFETY SHIELD,FRT PS (CURBSIDE FRONT)	1
6	229169	WLDMT, SAFETY SHIELD, REAR PS (CURBSIDE REAR)	1

Scale Assembly-Options

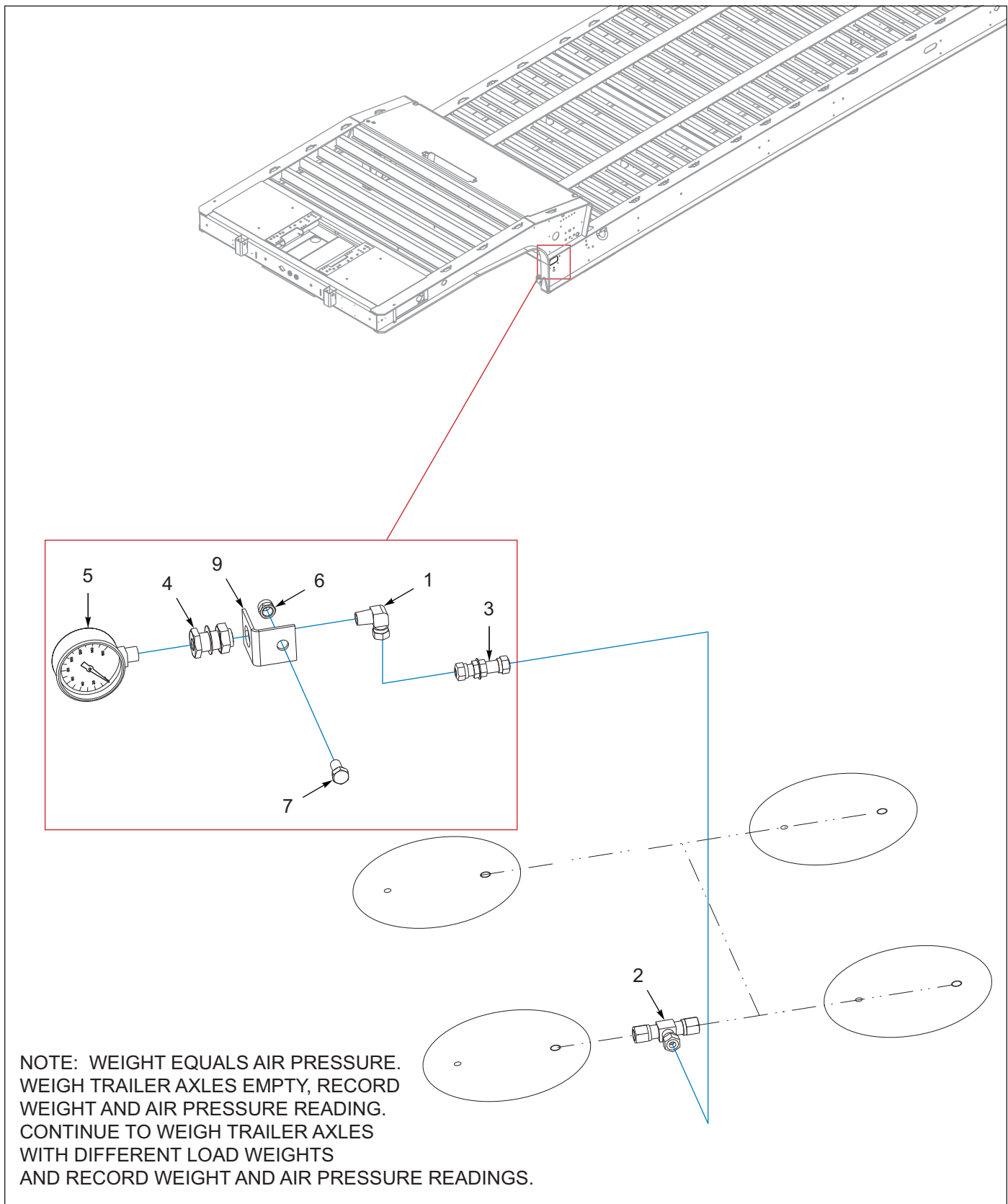


Figure 1-136: Air Pressure Gauge Assembly

Air Pressure Gauge Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	128601	PRESSURE GAUGE INSTL 410SUSP (INCLUDES ITEMS 1-9)	- -
1	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	1
2	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	1
3	1-297-010014-02	FITTING,AIR,BLKHD UNION 1/4	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 (BY THE FOOT)	50
9	3-120-010445	BRACKET,PRESSURE REGULATOR660	1

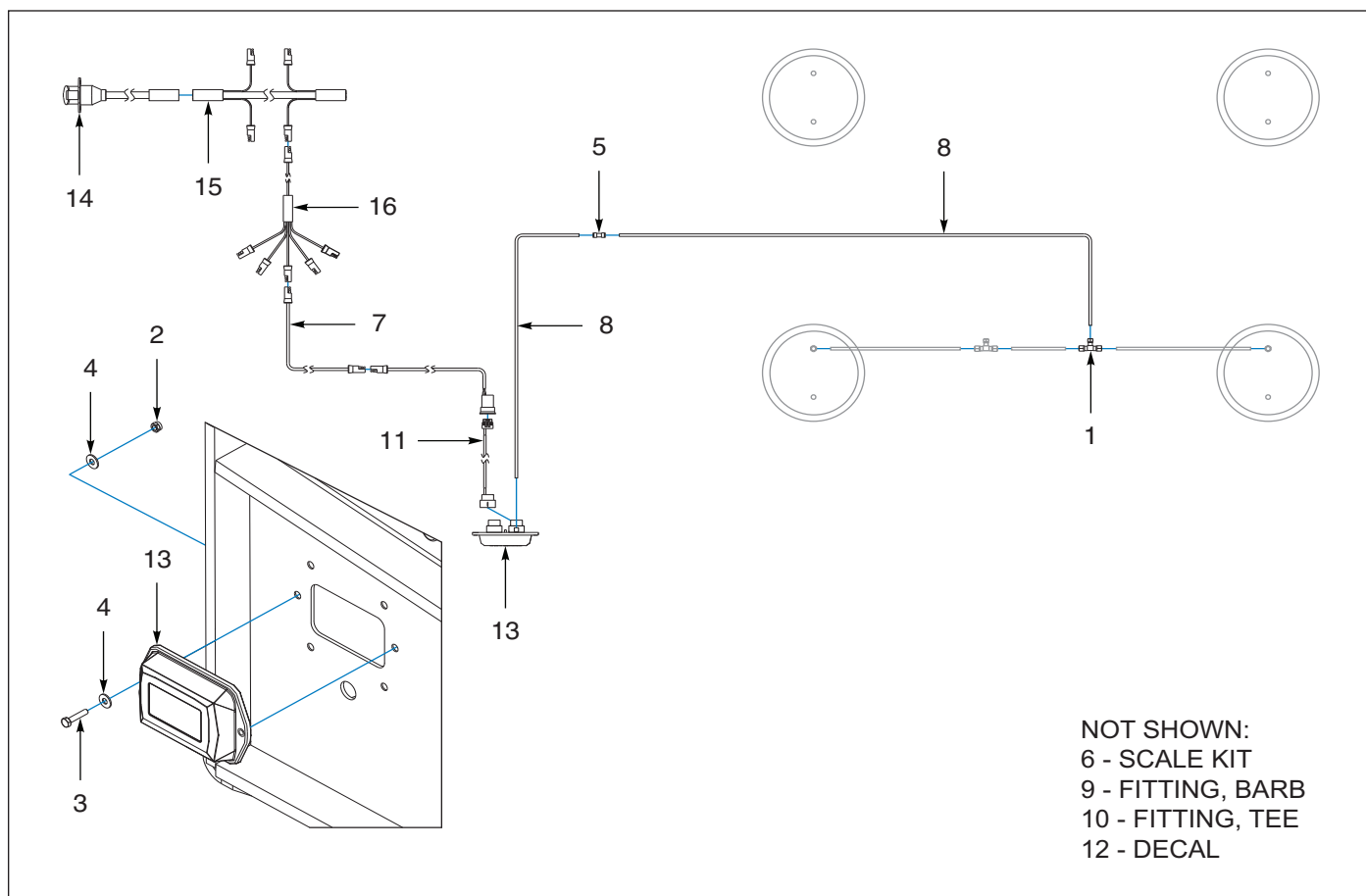


Figure 1-138: Quickload Plus & Loadmaxx Plus (AFTER 3/31/2020)

Quickload Plus & Loadmaxx Plus (AFTER 3/31/2020)

ITEM	PART NUMBER	DESCRIPTION	QTY
	226657	QUICKLOAD PLUS TRAV AX INSTL (REQUIRES ITEMS 1-6A)	--
	226661	LOADMAXX PLUS TRAV AX INSTL (REQUIRES ITEMS 1-6B)	--
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 (6A INCLUDES ITEMS 8-13A)	1
6	226660	LOADMAXX PLUS TRAV AXLE KIT (6B INCLUDES ITEMS 8-13B)	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 (13A PART OF ITEM 6A)	1
13	226655	LOADMAXX PLUS SCALE MODULE (13B PART OF ITEM 6B)	1
14	143100	HARNESS 7WAY RECP GROTE	1
15	143101	HARNESS FRONT MAIN GROTE	1
16	150093	HARNESS 5 AUX BRANCHES GROTE	1

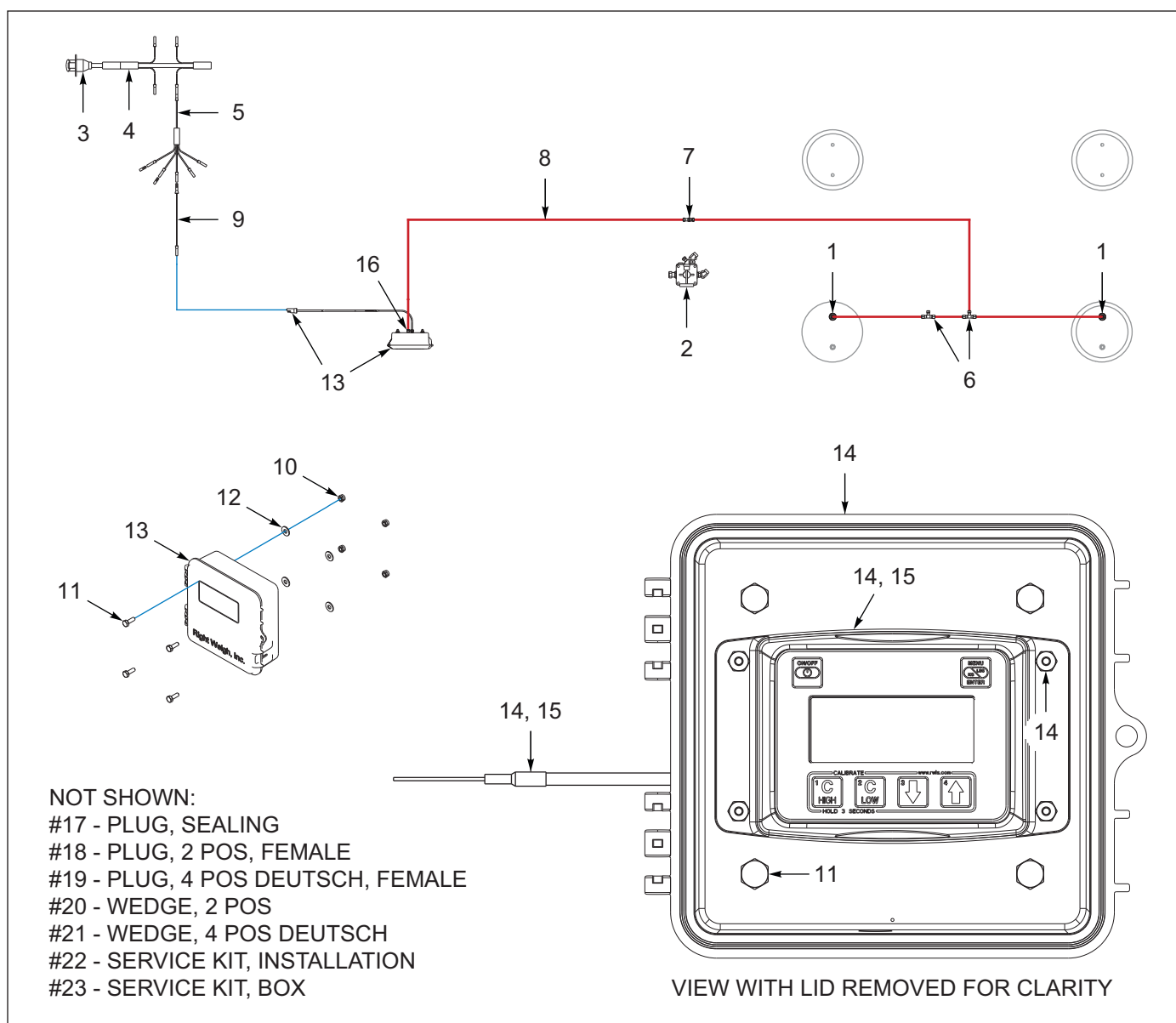


Figure 1-139: Right Weigh

Right Weigh

ITEM	PART NUMBER	DESCRIPTION	QTY.
	170470	SCALE INSTALLATION, RIGHT WEIGH SYSTEM (NON-BLUETOOTH) (INCLUDES ITEMS 6-16)	--
	205742	SCALE INSTALLATION, RIGHT WEIGH SYSTEM W/ BLUETOOTH (BLUETOOTH) (INCLUDES ITEMS 6-21)	--
1	1-297-010007-11	FITTING AIR	2
2	141607	AIR BOOSTER VALVE ASSEMBLY (SEE PAGE 1-42)	1
3	143100	HARNESS, 7 WAY RECEPTACLE	1
4	143101	HARNESS, FRONT MAIN	1
5	150093	HARNESS, 5 AUXILIARY BRANCHES	1
6	1-297-010010-04	FITTING AIR UNION TEE	2
7	1-297-010014-02	FITTING, AIR	1
8	1-833-010001	TUBING NYLON 1/4 OD (BY THE FOOT)	45

Right Weigh

ITEM	PART NUMBER	DESCRIPTION	QTY.
9	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
10	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	4
11	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	4
12	1-861-010032-07	WASHER, FLAT 1/4	4
13	170471	HARNESS ASSEMBLY, RIGHT WEIGH (NON-BLUETOOTH) (INCLUDES HARNESS CONNECTOR AND ITEMS 14-16)	1
13	205744	HARNESS ASSEMBLY, RIGHT WEIGH (BLUETOOTH) (INCLUDES HARNESS CONNECTOR AND ITEMS 14-21)	1
14	169935	RIGHT WEIGH DIGITAL SCALE (NON-BLUETOOTH) (INCLUDES BOX, SCALE, GASKET AND 4 NUTS / BOLTS, WO / HARNESS CONNECTOR)	1
14	205745	E-Z WEIGH DIGITAL BT SCALE (BLUETOOTH) (INCLUDES BOX, SCALE, GASKET AND 4 NUTS / BOLTS, WO / HARNESS CONNECTOR)	1
15	171159	DIGITAL SCALE (NON-BLUETOOTH) (WO / HARNESS CONNECTOR)	1
15	205747	DIGITAL SCALE W/ BLUETOOTH (BLUETOOTH) (WO / HARNESS CONNECTOR)	1
16	218069	FITTING PUSH CON 201-EDG-01	1
17	622-2962-009	PLUG, SEALING (NOT SHOWN, PART OF 205744, ITEM 13)	8
18	622-2967-002	PLUG 2 POS. (FEMALE) (NOT SHOWN, PART OF 205744, ITEM 13)	2
19	622-2967-006	DEUTSCH PLUG 4 POS FEMALE (NOT SHOWN, PART OF 205744, ITEM 13)	1
20	622-2967-018	WEDGE, 2 POS PLUG (NOT SHOWN, PART OF 205744, ITEM 13)	2
21	622-2967-022	DEUTSCH WEDGE, 4 POS PLUG (NOT SHOWN, PART OF 205744, ITEM 13)	1
22	171160	DIGITAL INSTALLATION KIT (NOT SHOWN, KIT INCLUDES)	1
	-----	1/4" NPT STREET TEE FITTING	1
	-----	3/8" NPT STREET TEE FITTING	1
	-----	3/8" NPT TO 1/4" NPT REDUCER FITTING	1
	-----	1/4" NPT MALE TO 1/4" TUBE STRAIGHT FITTING	1
	-----	BUTT CONNECTORS	4
	-----	1/2" X 6" HEAT SHRINK TUBING	2
	-----	1/4" AIR LINE (BY THE FOOT)	30
	-----	WEATHER RESISTANT POWER CABLE (BY THE FOOT)	25
	-----	PLASTIC TIES	30
23	171161	RIGHT WEIGH MOUNT BOX SERVICE (NOT SHOWN, KIT INCLUDES)	1
	-----	BOX, POLYCARBONATE (W/LID GASKET)	1
	-----	GASKET, SCALE TO BOX	1
	-----	BRACKET, MOUNTING	1
	-----	MOUNTING HARDWARE, SCALE TO BOX (STAINLESS NUTS AND BOLTS)	4
	-----	MOUNTING HARDWARE, BOX TO BRACKET (STAINLESS NUTS, BOLTS AND WASHERS)	4
	-----	MOUNTING HARDWARE, BRACKET TO TRAILER (STAINLESS NUTS, BOLTS AND WASHERS)	2

Spare Tire Mount - Options

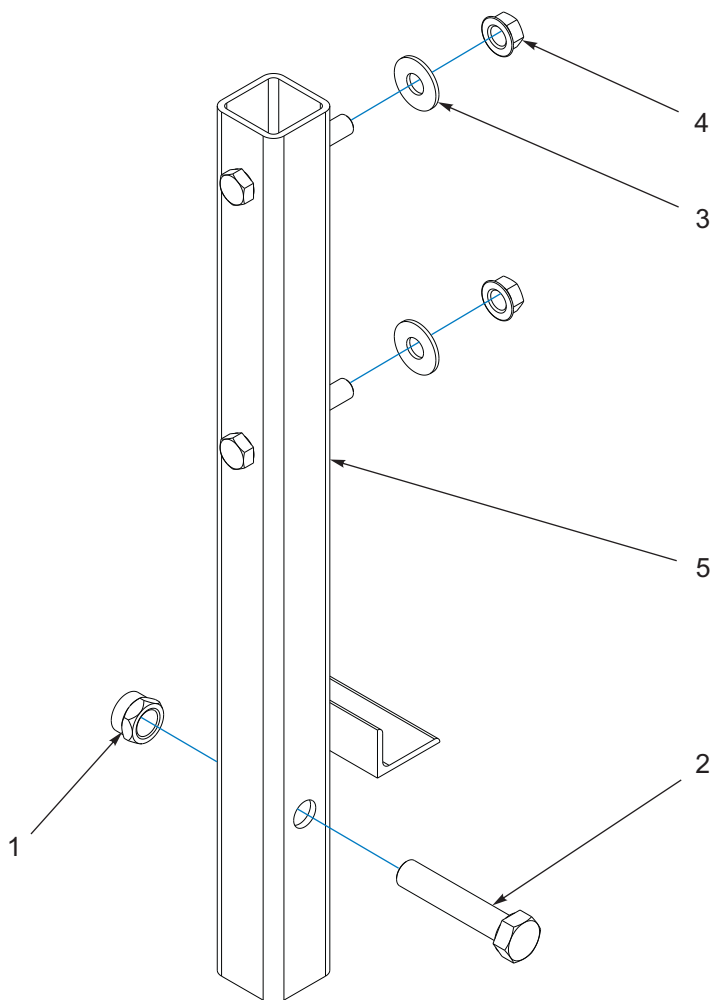


Figure 1-140: Post Mount Assembly

Post Mount Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	130282	SPARE TIRE MOUNT ASSEMBLY	--	
	169641	SPARE TIRE MOUNT ASSEMBLY, 255 TIRES		--
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

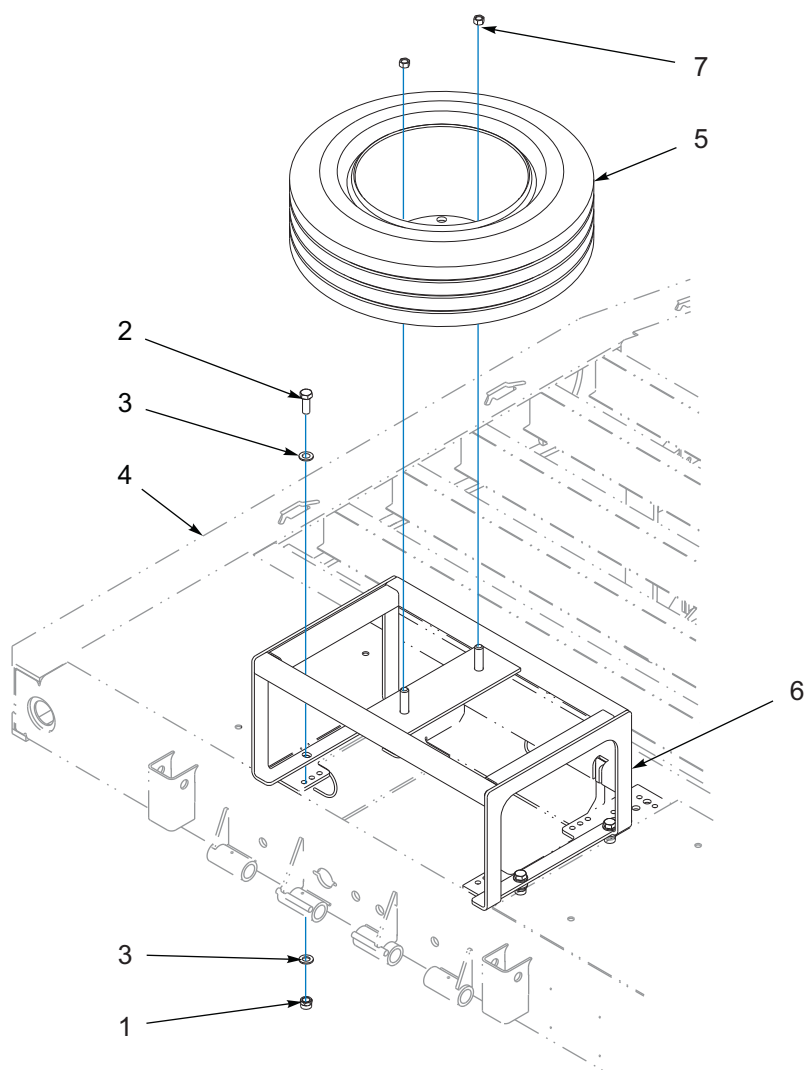


Figure 1-141: Upper Deck Mount Assembly

Upper Deck Mount Assembly

ITEM	PART NUMBER	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	-----	GOOSENECK WELDMENT	--
5	-----	TIRE ASSEMBLY	--
6	163791	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1
7	179933	NUT, HEX M22 X 1.5	2

Steps & Storage - Options

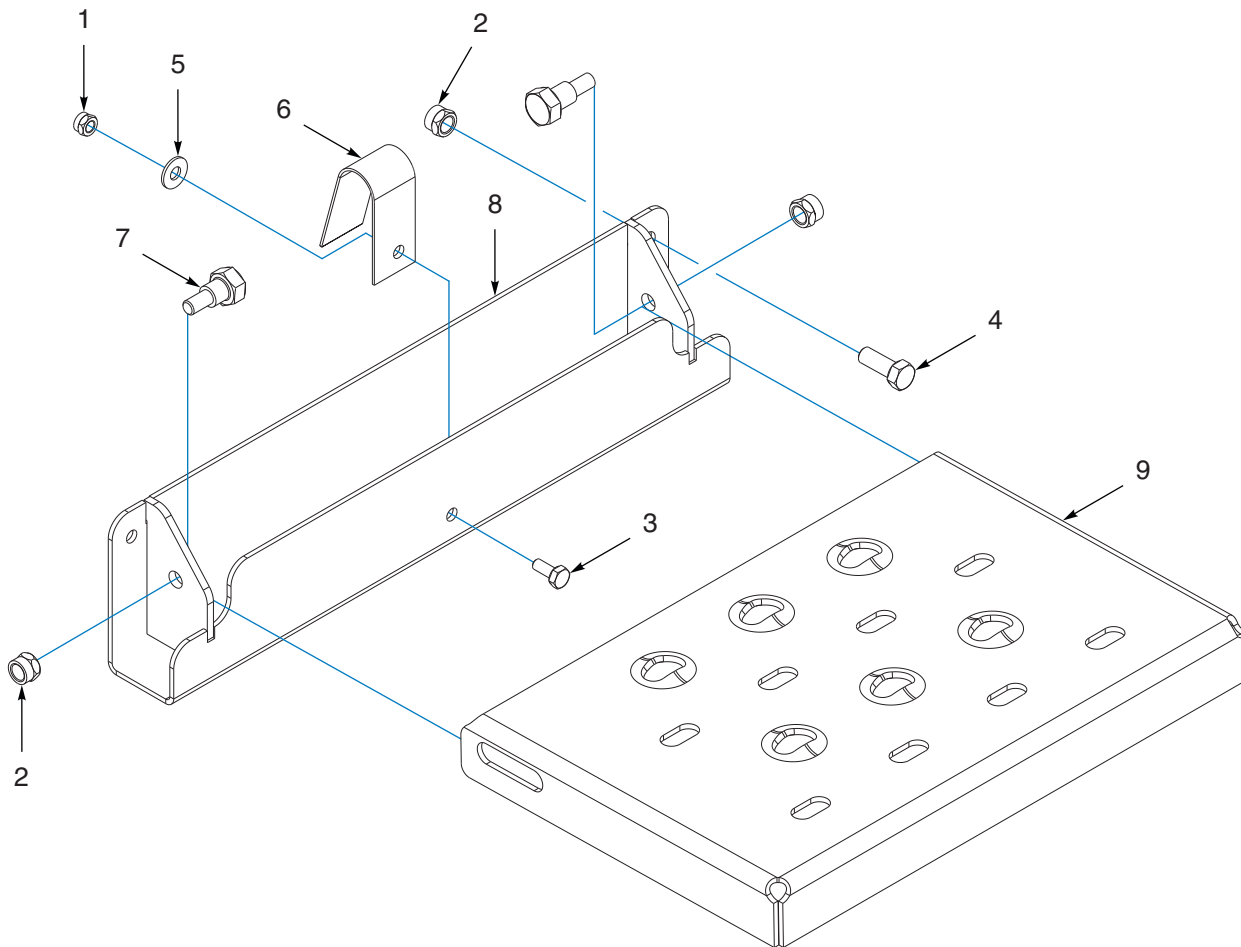


Figure 1-142: Step, Folding Assembly

Step, Folding Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	174061	STEP ASSY,FOLD UP, YELLOW	--
	178393	STEP ASSY, FOLD UP, YELLOW (2 STEPS)	--
	189699	STEP ASSY, FOLD UP, BLACK	--
	216268	STEP ASSY, FOLD UP, GALV	--
1	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20 (2 EACH FOR 178393)	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (8 EACH FOR 178393)	4
3	1-654-010047-03	SCREW, HEX 1/4-20UNCX5/8 (2 EACH FOR 178393)	1
4	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5 (4 EACH FOR 178393)	2
5	1-861-010032-07	WASHER,FLAT 1/4 ZP (2 EACH FOR 178393)	1
6	174092	SPRING,STAY, FOLDING STEP (2 EACH FOR 178393)	1
7	2-095-010017	BOLT, SHOULDER HEX HEAD (4 EACH FOR 178393)	2
8	190556	ANCHOR, FOLDING STEP,BLACK (FOR 189699)	1
8	216267	ANCHOR, FOLDING STEP, GALV (FOR 216268)	1
8	220291	ANCHOR, FOLDING STEP,YELLOW (1 EACH FOR 174061) (2 EACH FOR 179383)	--
9	190557	STEP, FOLD UP BLACK (FOR 189699)	1
9	216266	STEP, FOLD UP, GALV (FOR 216268)	1
9	220292	STEP,FOLD UP,YELLOW (1 EACH FOR 174061) (2 EACH FOR 179383)	--

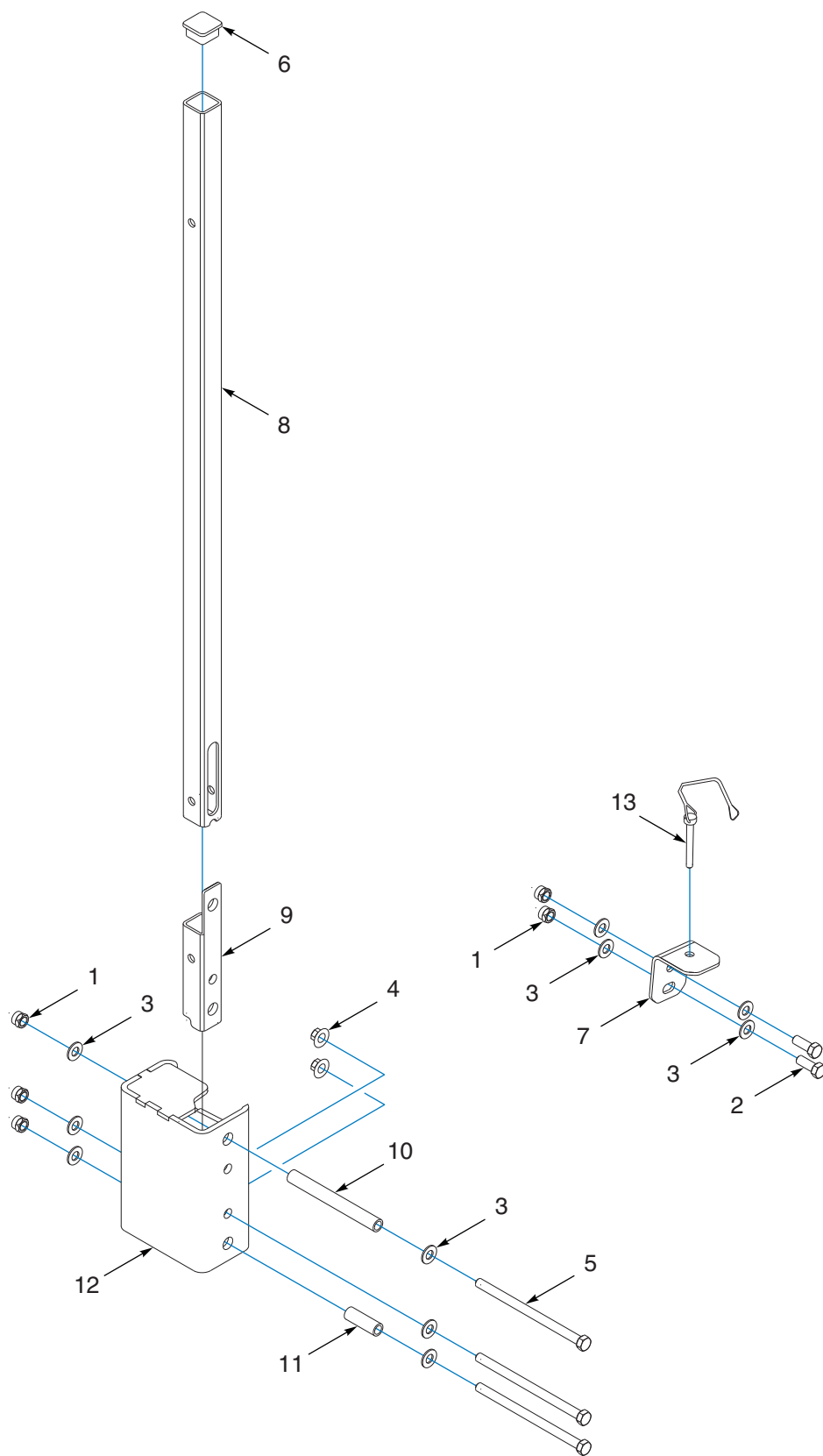


Figure 1-143: Step, Folding Handle Assembly

Step, Folding Handle Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	226645	ROTATE VERT HANDLE	- -
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	5
2	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	2
3	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	10
4	107470	NUT, SPIRALOCK 3/8-16HX	2
5	109207	SCREW 3/8-16X6 HHCS FULLTHRD	3
6	208980	PLUG, SQR TUBE 1-1/4, 10-14 GA	1
7	223279	STEP HANDLE HOLD BRACKET	1
8	223282	STEP HANDLE TUBE	1
9	223283	STEP HANDLE INSERT TUBE	1
10	223285	SLIDE COLLAR	1
11	226635	HANDLE BASE SPACER	1
12	226644	HANDLE BASE WLDMT	1
13	226688	PIN, 5/16X1-3/4, ROUND LOCKING	1

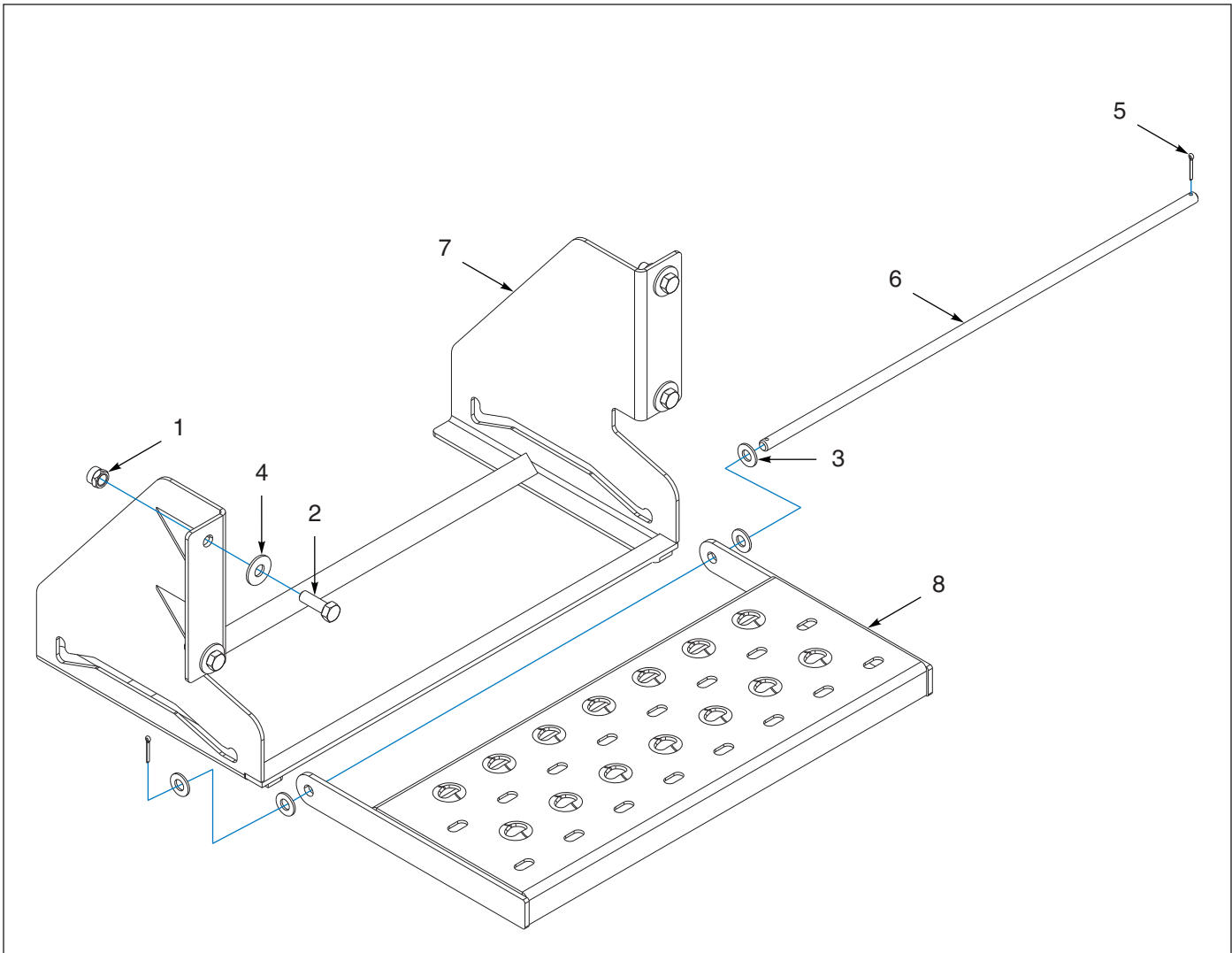


Figure 1-144: Step. Retractable Assembly

Step, Retractable Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	175632	STEP ASSY,RETRACTABLE,YELLOW	--
	216271	STEP ASSY, RETRACTABLE GALV	--
1	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
2	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
3	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	4
4	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
5	101386	PIN, COTTER, 1/8X1	2
6	175625	PIN,SLIDING, RETRACTABLE STEP	1
7	216269	MOUNT,RETRACTABLE STEP, GALV (FOR 216271)	1
7	220293	MOUNT,RETRACTABLE STEP, BLACK (FOR 175632)	1
8	216270	STEP,RETRACTABLE, GALV (FOR 216271)	1
8	220294	STEP,RETRACTABLE, YELLOW (FOR 216271)	1

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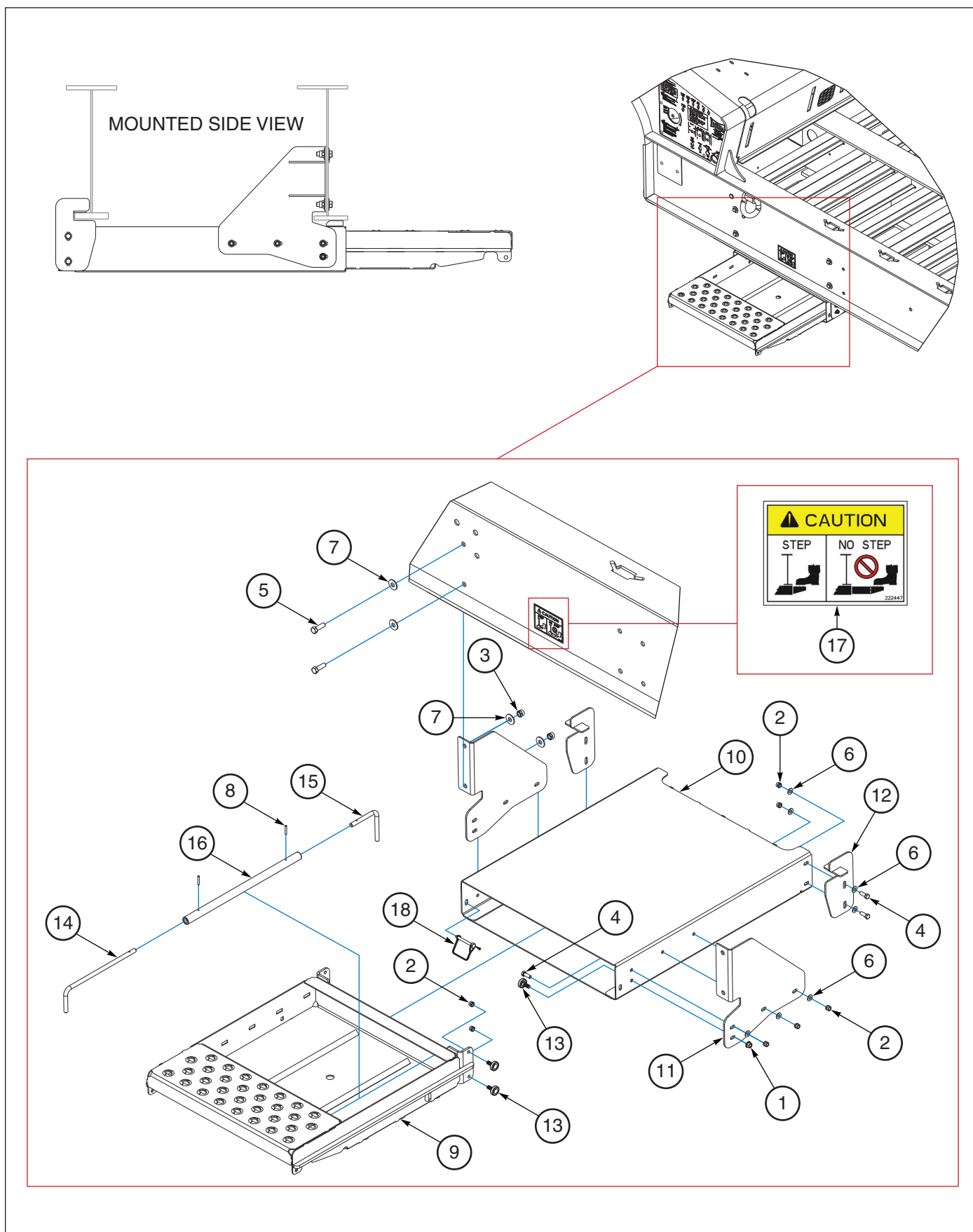


Figure 1-145: Step Drawer, Retractable Assembly

Step Drawer, Retractable Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	222445	INSTL STEP/DRAWER COMBO YLW/BK	--
	222446	INSTL STEP/DRAWER COMBO GALV	--
1	1-510-010001	NUT, 3/8-16 UNC FLANGE LOCK	2
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	14
3	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
4	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	10
5	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
6	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	14
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	8
8	172804	PIN SPRING SLOTTED 3/16X1-1/4	2
9	222440	STEP/DRAWER STORAGE YELLOW	1
9	222441	GALV OF 221640 (STP/DRWR STRG)	1
10	222442	HOUSING STEP/DRAWER 900 BLACK	1
10	222443	GALV OF 221645 (STP/DRWR HSG)	1
11	222436	HANGER FRONT STEP/DRAWER BLACK	2
11	222437	GALV OF 221652 (STP/DRWR HGR)	2
12	222438	HANGER REAR STEP/DRAWER BLACK	1
12	222439	GALV OF 222434 (STP/DRWR HGR)	1
13	221642	CAM FOLLOWER 1.18" DIA 540LB	6
14	221648	PIN STEP/DRAWER FRONT HANDLE	1
15	221649	PIN STEP/DRAWER REAR STOP	1
16	221650	TUBE STEP/DRAWER STOP CONN	1
17	222447	DECAL CAUTION NO STEP STP/DRWR	1
18	516-22PTL	RETAINING PIN MUD FLAP	2

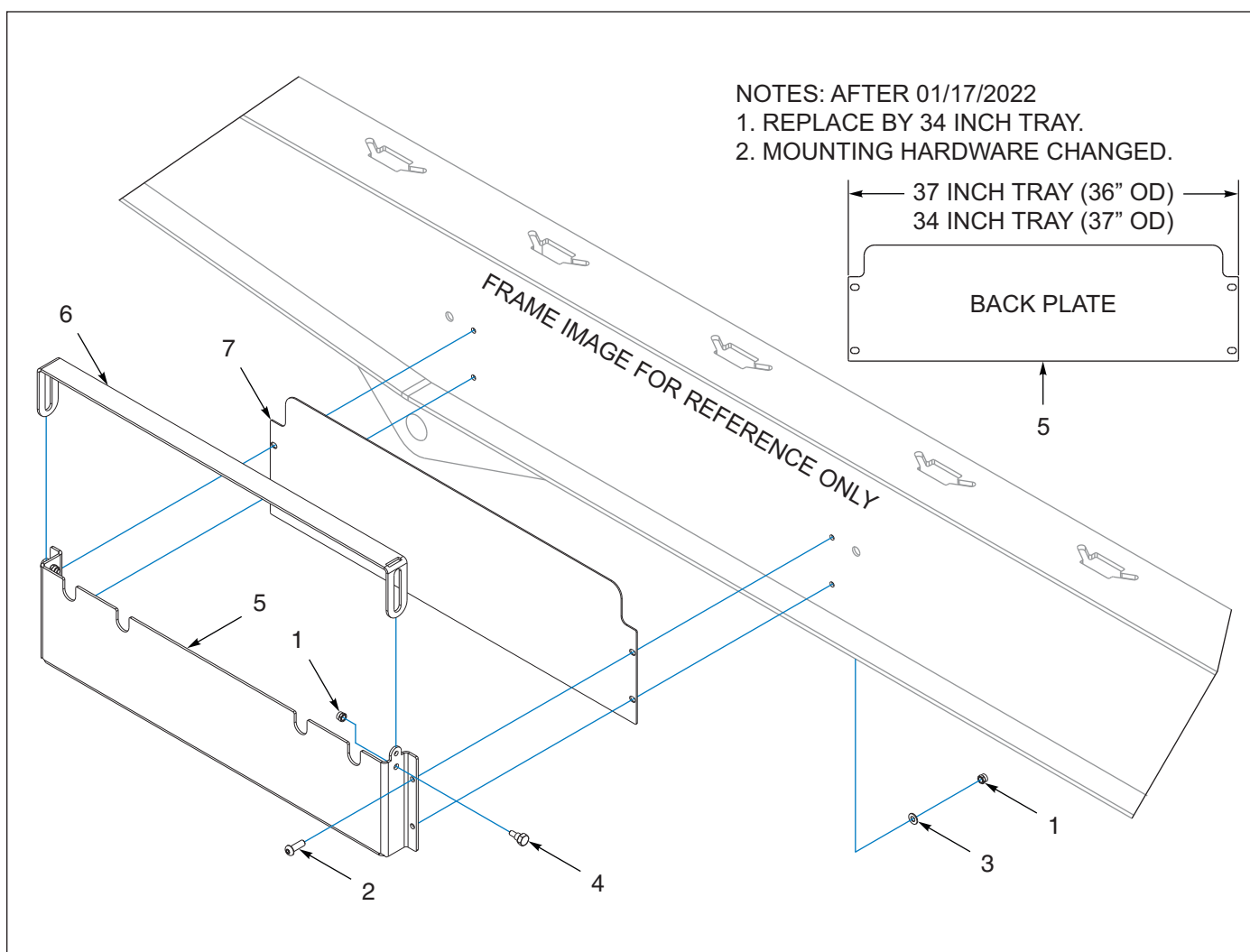


Figure 1-146: Chain Tray Assembly (BEFORE 01/17/2022)

Chain Tray Assembly (BEFORE 01/17/2022)

ITEM	PART NUMBER	DESCRIPTION	QTY
	208320	CHAIN TRAY, YELLOW BOLT-ON W/LD (W/ LID)	--
	208321	CHAIN TRAY, YELLOW BOLT-ON (WO/ LID)	--
	219615	CHAIN TRAY, TRL-CLR BLT-ON W/L (W/ LID)	--
	219616	CHAIN TRAY, TRL-CLR BOLT-ON (WO/ LID)	--
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 (W/ LID REQUIRES 6 EACH) (WO/ LID REQUIRES 4 EACH)	--
2	1-654-010051-05	SCREW, HEX CAP 3/8-16UNCX1 GR5 (BEFORE 08/06/2020)	4
2	108336	SCREW SKT BTN 3/8-16X1 (AFTER 08/06/2020)	4
3	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	4
4	2-095-010017	BOLT, SHOULDER HEX HEAD (W/ LID)	2
5	208318	CHAIN TRAY, BOLT-ON 8X37 (AFTER 01/17/2022 REPLACED BY 34 INCH - SEE PAGE 1-255)	--
6	208319	CHAIN TRAY LID (W/LID) (AFTER 01/17/2022 REPLACED BY 34 INCH - SEE PAGE 1-255)	--
7	225873	CHAIN TRAY LONG REAR (AFTER 01/17/2022 REPLACED BY 34 INCH - SEE PAGE 1-255)	--

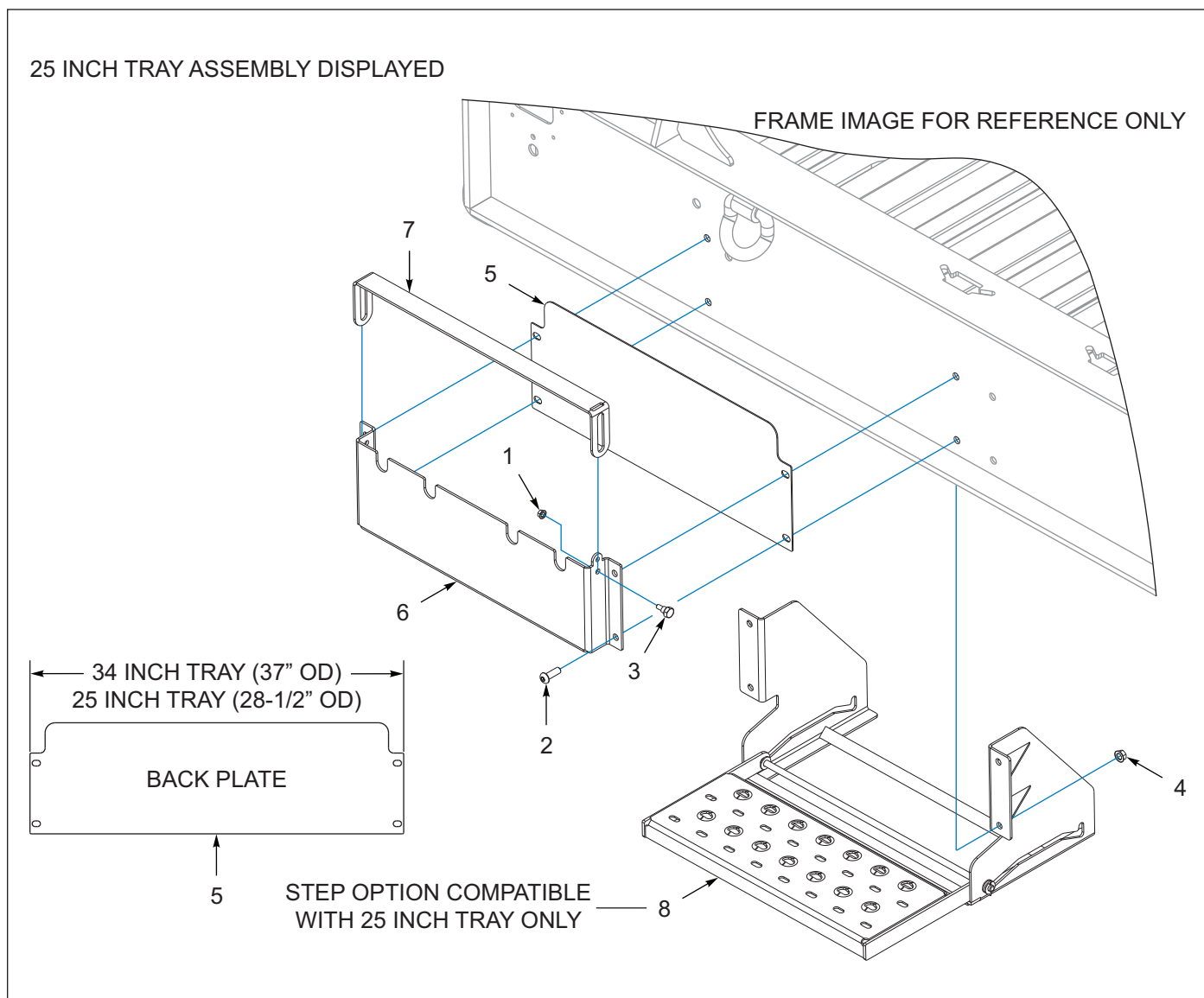


Figure 1-147: Chain Tray Assemblies (AFTER 01/17/2022)

Chain Tray Assemblies (AFTER 01/17/2022)

ITEM	PART NUMBER	DESCRIPTION	QTY
	238194	CHAIN TRAY INSTL (4) GALV W/LD	--
	238196	CHAIN TRAY INSTL (2) GALV W/LD	--
1	107470	NUT, SPIRALOCK 3/8-16HX	2
2	129454	SCREW, BHSC 1/2-13UNC X 1.500	4
3	2-095-010017	BOLT, SHOULDER HEX HEAD	2
4	223247	NUT, 1/2-13 UNC FLG LOCK GR G	4
5	220517	CHAIN TRAY REAR PLT ALUM (25 INCH)	1
5	238187	CHAIN TRAY RR PLT ALUM 8X34 (34 INCH)	1
6	238186	GALV OF 220515 (CHN TRY 8X25) (25 INCH)	1
6	238184	GALV OF 238184 (CHN TRY 8X34) (34 INCH)	1
7	238191	GALV OF 220516 (CHN TRY 25") (25 INCH)	1
7	238189	GALV OF 208319 (CHN TRY LID34") (34 INCH)	1
8	175632	STEP ASSY, RETRACTABLE, YELLOW (OPTION - SEE PAGE 1-250)	1

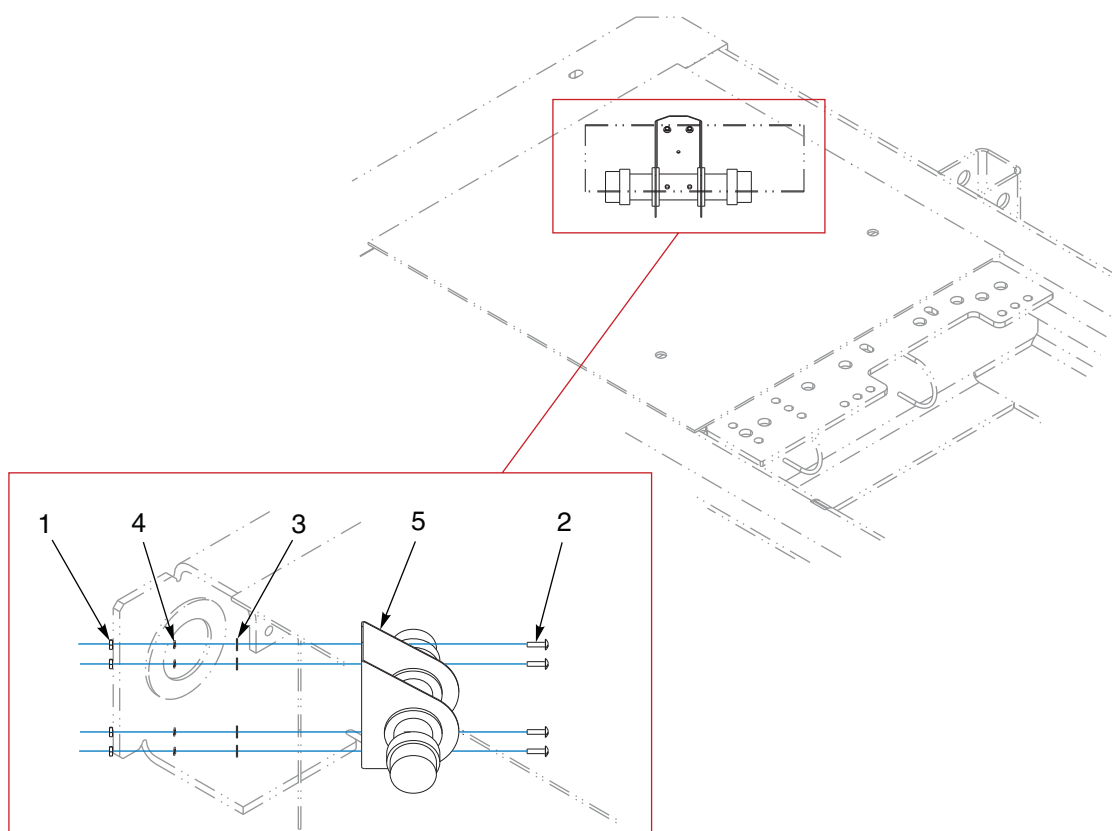


Figure 1-148: Registration Holder Assembly

Registration Holder Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
--	175989	INSTL REGISTRATION CARD HOLDER	--
--	130662	GOOSENECK WLDMT, 410-102	--
1	1-512-010007-03	NUT, HEX 10-24 GR2 ZP	4
2	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
3	1-861-010032-03	WASHER, FLAT #10 ZP/CD	4
4	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	4
5	174598	REGISTRATION CARD HOLDER	1

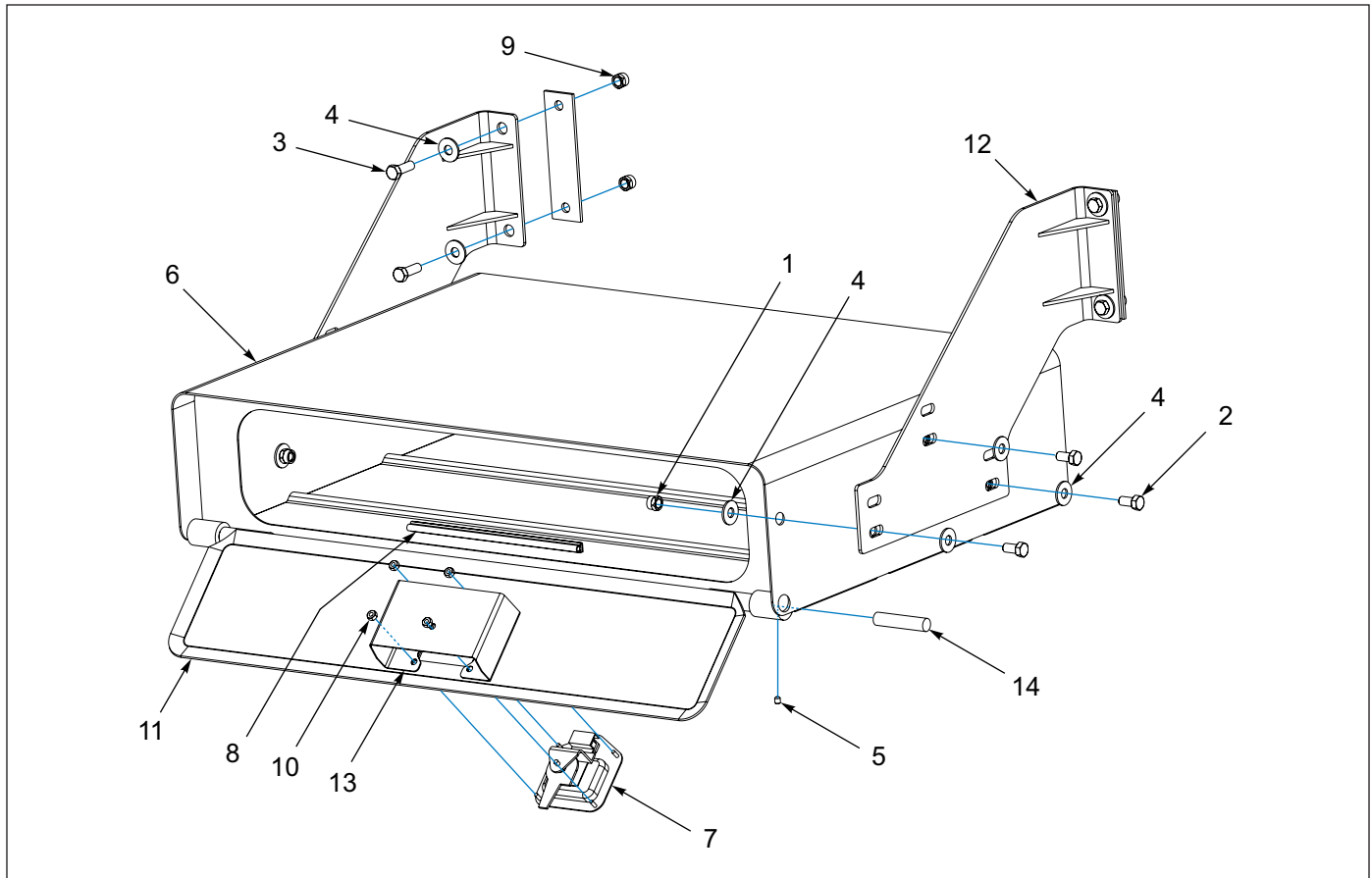


Figure 1-149: Toolbox Assembly-Steel/Aluminum Door

Toolbox Assembly-Steel/Aluminum Door

ITEM	PART NUMBER	DESCRIPTION	QTY.
	114807	TOOLBOX INSTALLATION STEEL DOOR	--
	116628	TOOLBOX INSTALLATION ALUMINUM DOOR	1
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5 (FOR 114807)	6
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (FOR 116628)	6
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	114808	TOOLBOX WELDMENT	1
7	114814	LATCH FOLDING T LOCKABLE	1
8	114815	SEAL, SPONGE RUBBER TRIM	7
9	115843	BAR, BACKUP TOOLBOX MOUNTING	2
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX (USED W/ 114807)	1
11	116624	DOOR WELDMENT ALUMINUM TOOLBOX (USED W/ 116628)	1
12	117860	BRACKET, WELDMENT TOOLBOX MOUNTING	2
13	153420	TOOLBOX LATCH SHIELD	1
14	RPRB59004X3H	BAR, ROUND 3/4 X 3-1/2 NYLATRON	2

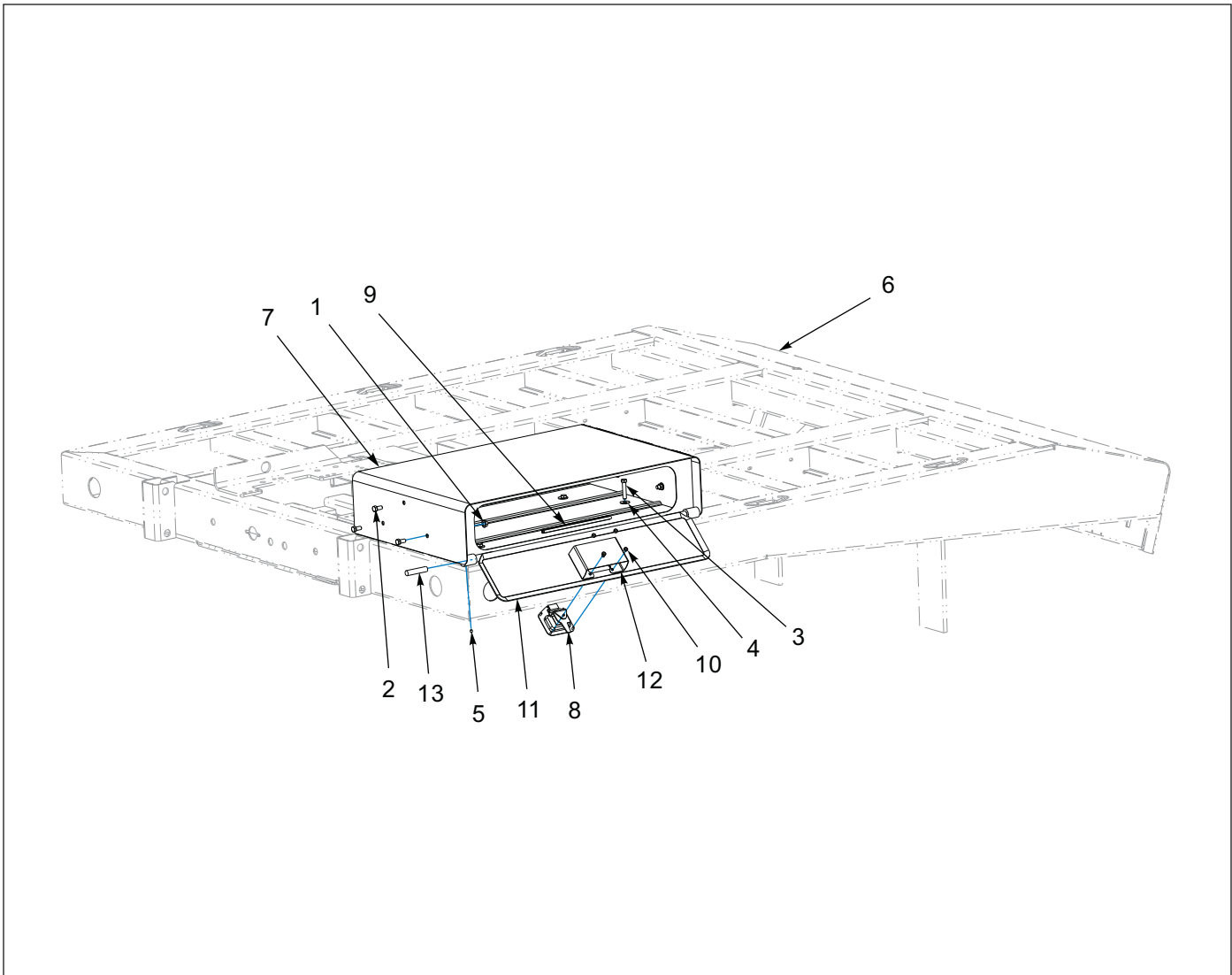


Figure 1-150: Toolbox Assembly-Upper Deck

Toolbox Assembly-Upper Deck

ITEM	PART NUMBER	DESCRIPTION	QTY.
	125399	UPPER DECK TOOLBOX INSTALLATION	--
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	10
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	6
3	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	-----	GOOSENECK WELDMENT	--
7	114808	TOOLBOX WELDMENT	1
8	114814	LATCH, FOLDING T LOCKABLE	1
9	114815	SEAL SPONGE RUBBER TRIM	7
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX	1
12	153420	TOOLBOX LATCH SHIELD	1
13	RPRB59004X3H	BAR ROUND, 3/4DIA X 3-1/2 NYLATRON	2

Tie Down-Options

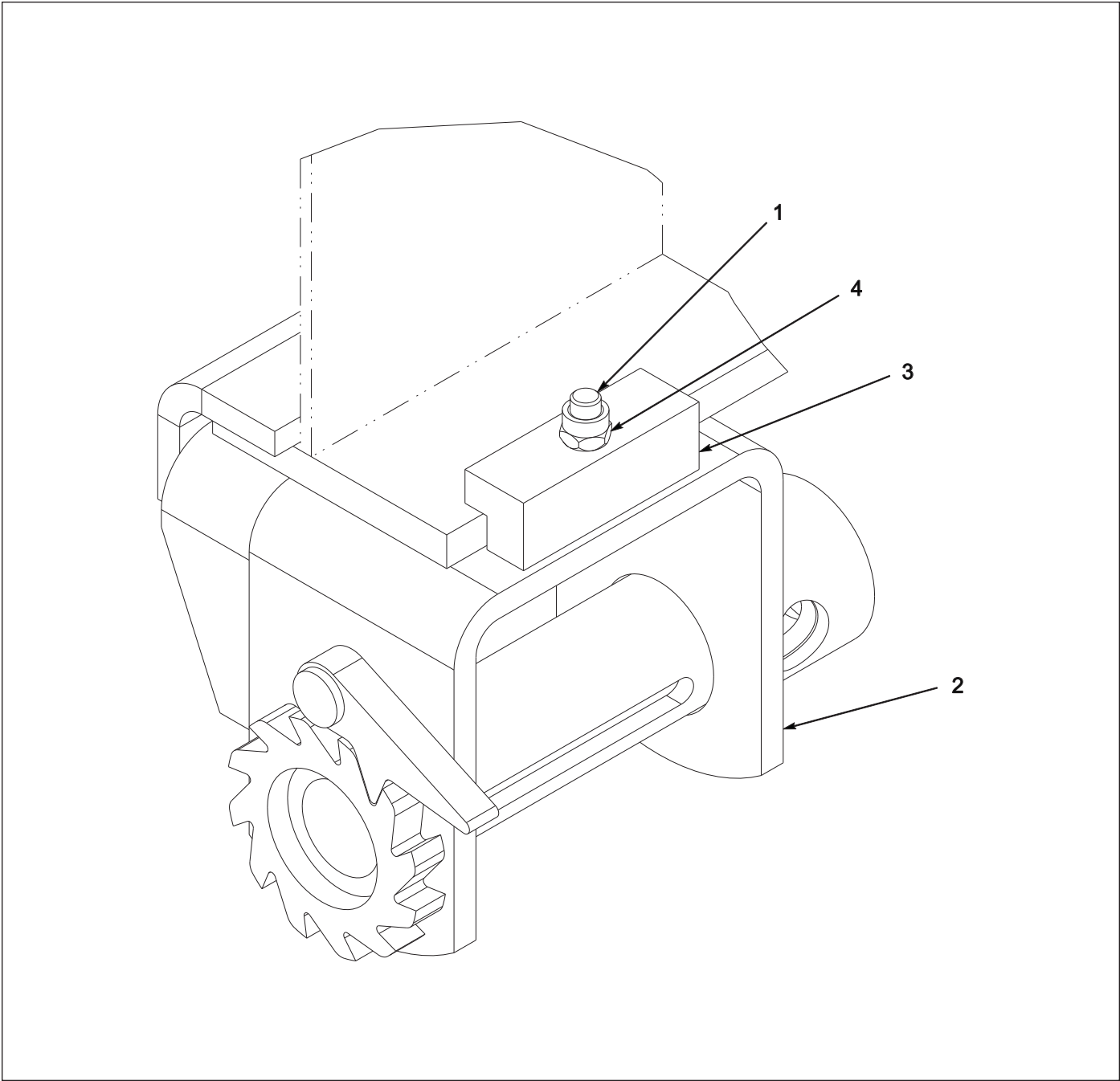


Figure 1-151: Winch Web, Sliding 4in

Winch Web, Sliding 4IN

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	142923	WINCH ASSY 4IN WEBBING SLIDNG	--
1	134781	CLAMP SLIDING WEB WINCH	1
2	142924	WINCH WEBBING SLIDE MOD	1
3	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
4	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	1

Upper Deck - Options

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

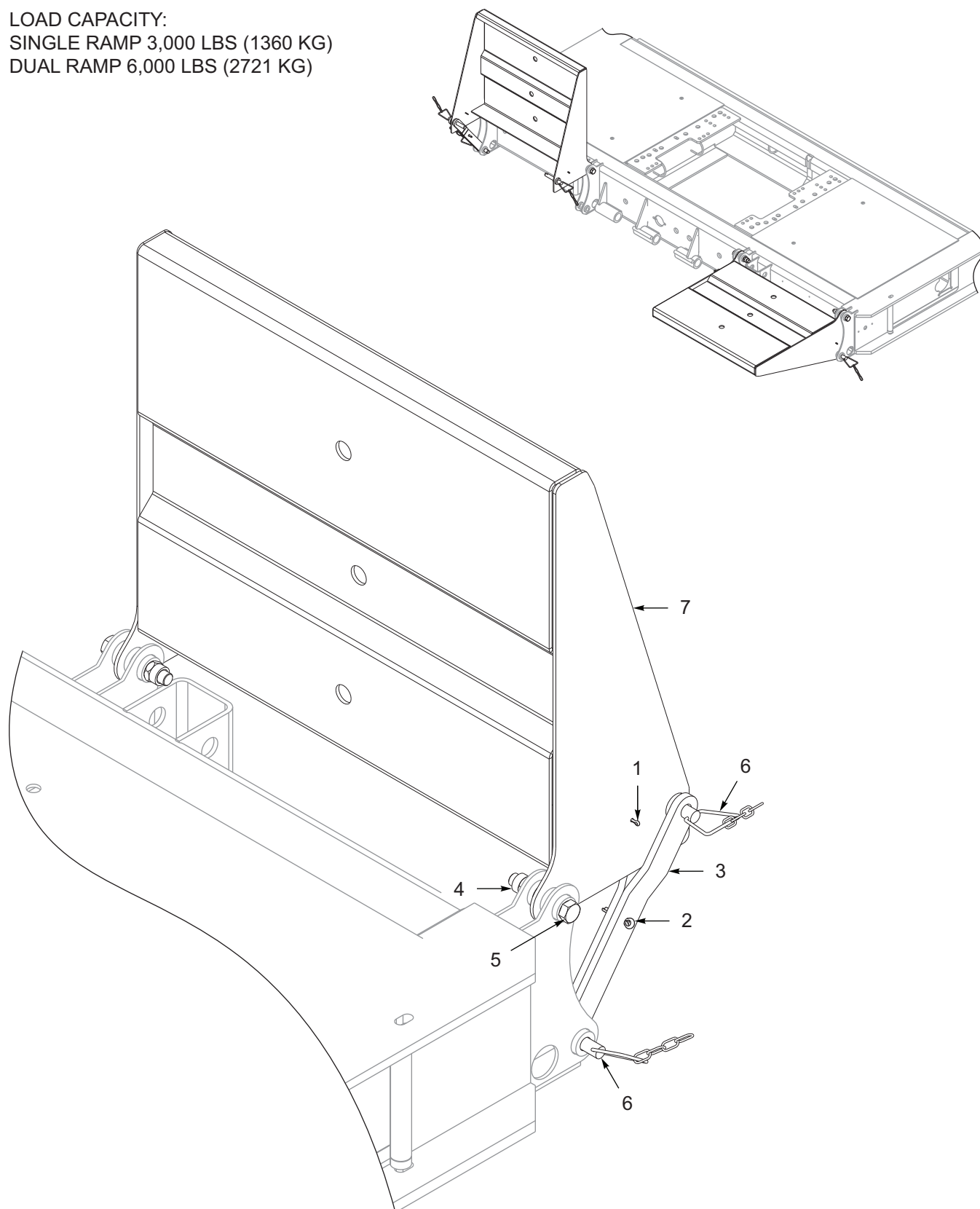


Figure 1-152: Front Flip Extension Assembly

Front Flip Extension Assembly

ITEM	PART NUMBER	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) (ADDED 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 (142194) (BEFORE 09/02/2020, 2 EACH, 1 PER EXTENSION)	6
7	202714	GALV OF130540 EXT WLDM FT FLIP (102" WIDE)	2
7	202715	GALV OF174254 EXT WLDM FT FLIP (108" WIDE)	2
7	202716	GALV OF194162 EXT WLDM FT FLIP (120" WIDE)	2

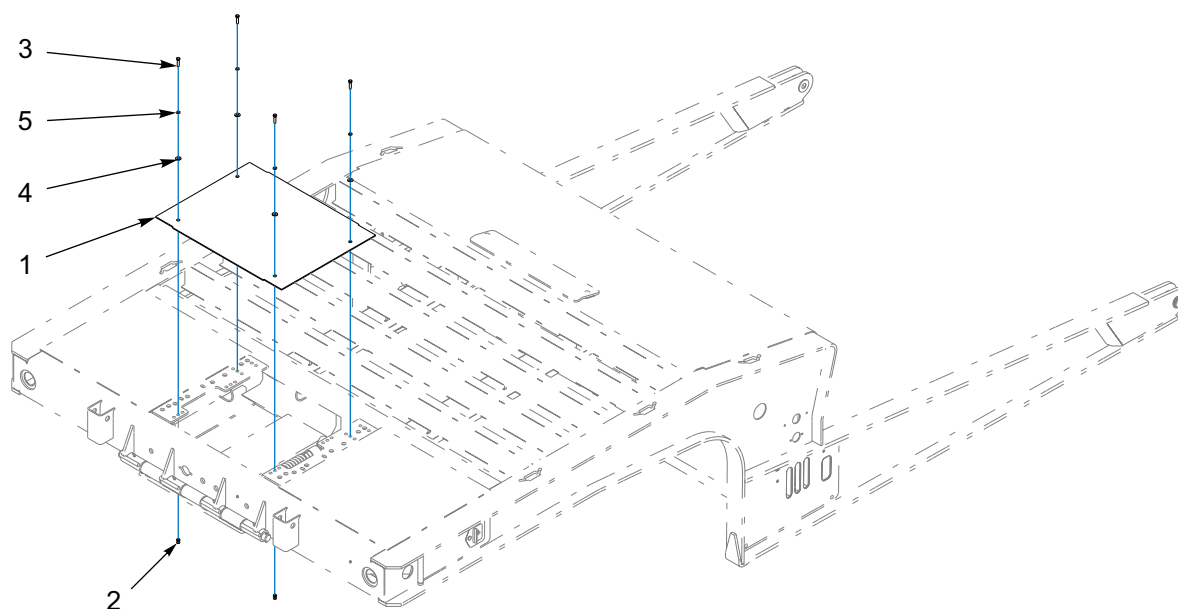


Figure 1-153: Upper Deck Cover Assembly

Upper Deck - Cover Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	137635	COVER ASSEMBLY, UPPER DECK	--
1	137634	COVER, UPPER DECK	1
2	139254	NUTSERT, 3/8-16	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	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
6	1-007-010025	PLUG, O-RING BOSS 3/4-16 (NOT SHOWN)	1

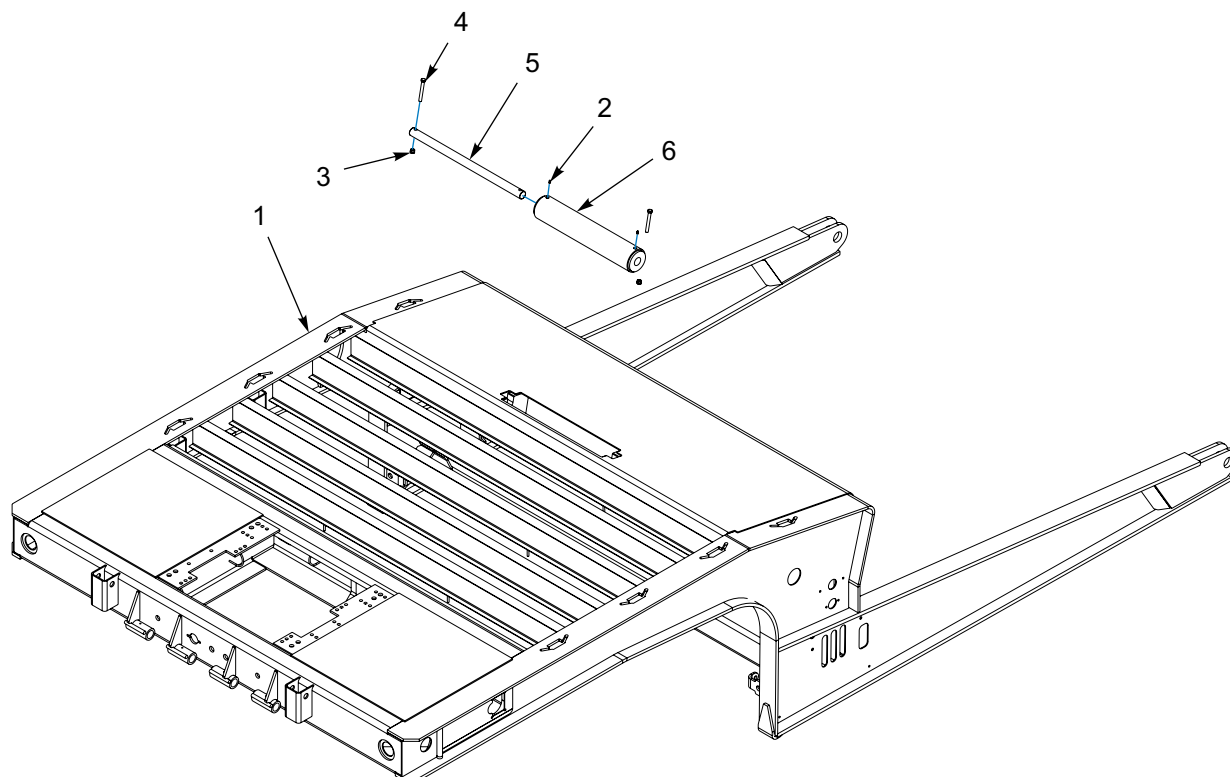


Figure 1-154: Upper Deck - Roller Installation

Upper Deck - Roller Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION	--
1	130662	GOOSENECK WELDMENT	--
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	ROLLER ROD	1
6	3-645-010059	ROLLER WELDMENT, CABLE U/D	1

Winches - Options

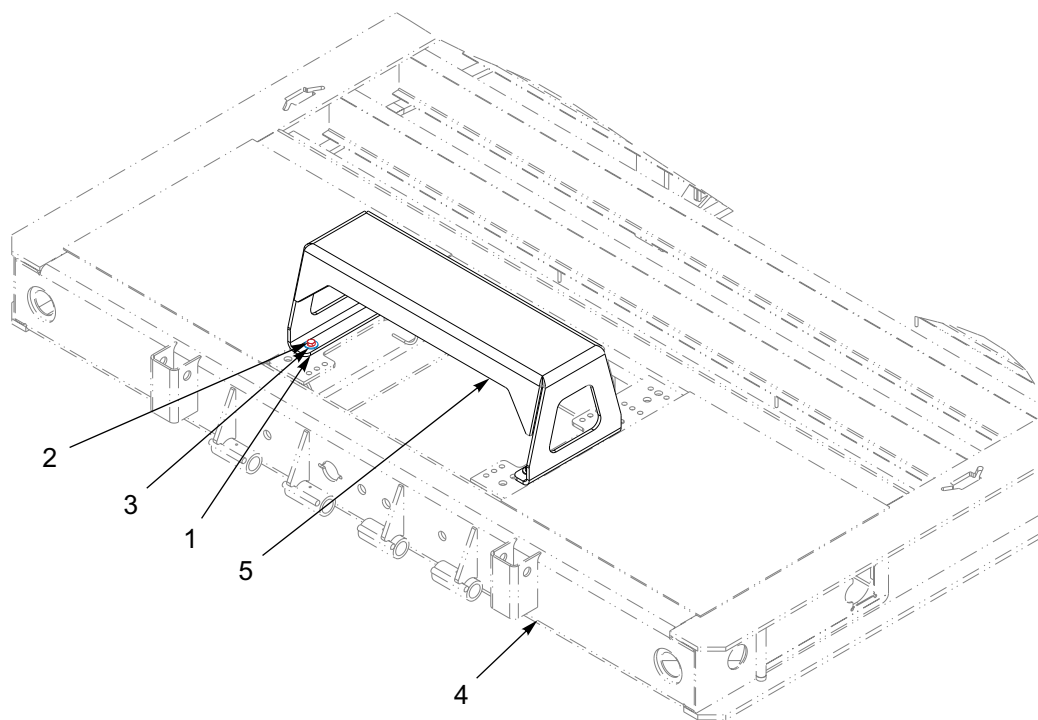


Figure 1-155: Guard Assembly, 12K/20K (BRADEN)

Guard Assembly, 12K/20K (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	145598	12/20K WINCH GUARD INSTALLATION	--
1	1-512-010005-09	NUT, HEX LOCK 1/2-13	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	8
4	-----	GOOSENECK WELDMENT	--
5	145599	GUARD, WINCH 12/20K BRADEN	1

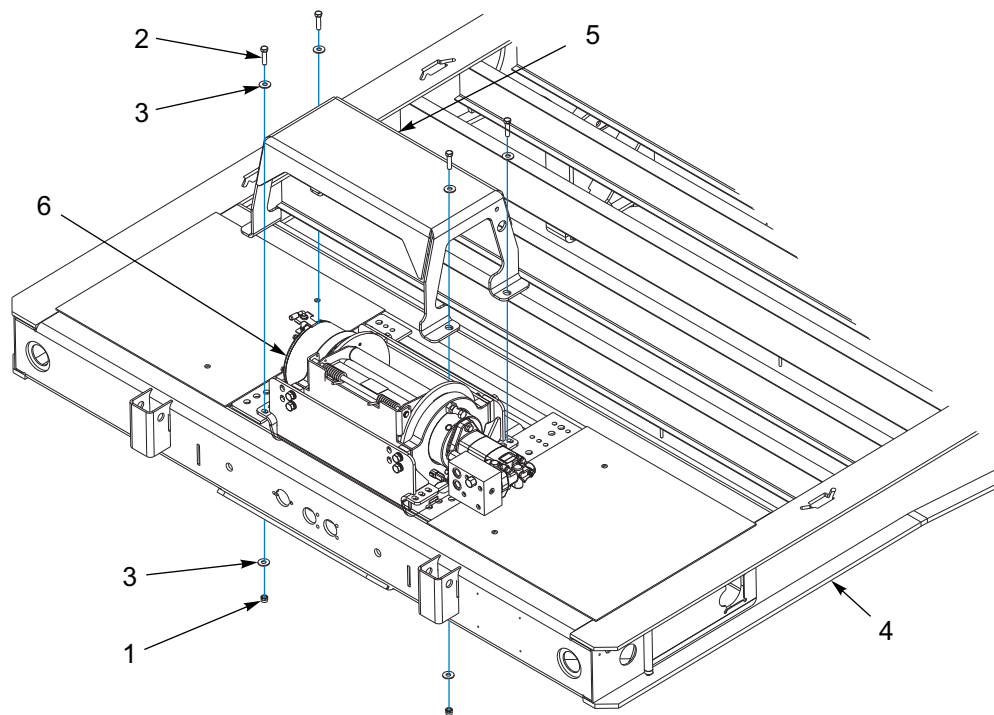


Figure 1-156: Guard Assembly, 20K/30K (WARN)

Guard Assembly, 20K/30K (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191832	20K/30K WINCH GUARD INSTALLATION	--
1	1-512-010005-09	NUT, HEX LOCK 1/2-13	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	8
4	174552	FRAME WELDMENT	--
5	186901	WLDMT, GOOSENECK, US 400	--
6	191831	GUARD, WINCH 20K/30K WARN	--

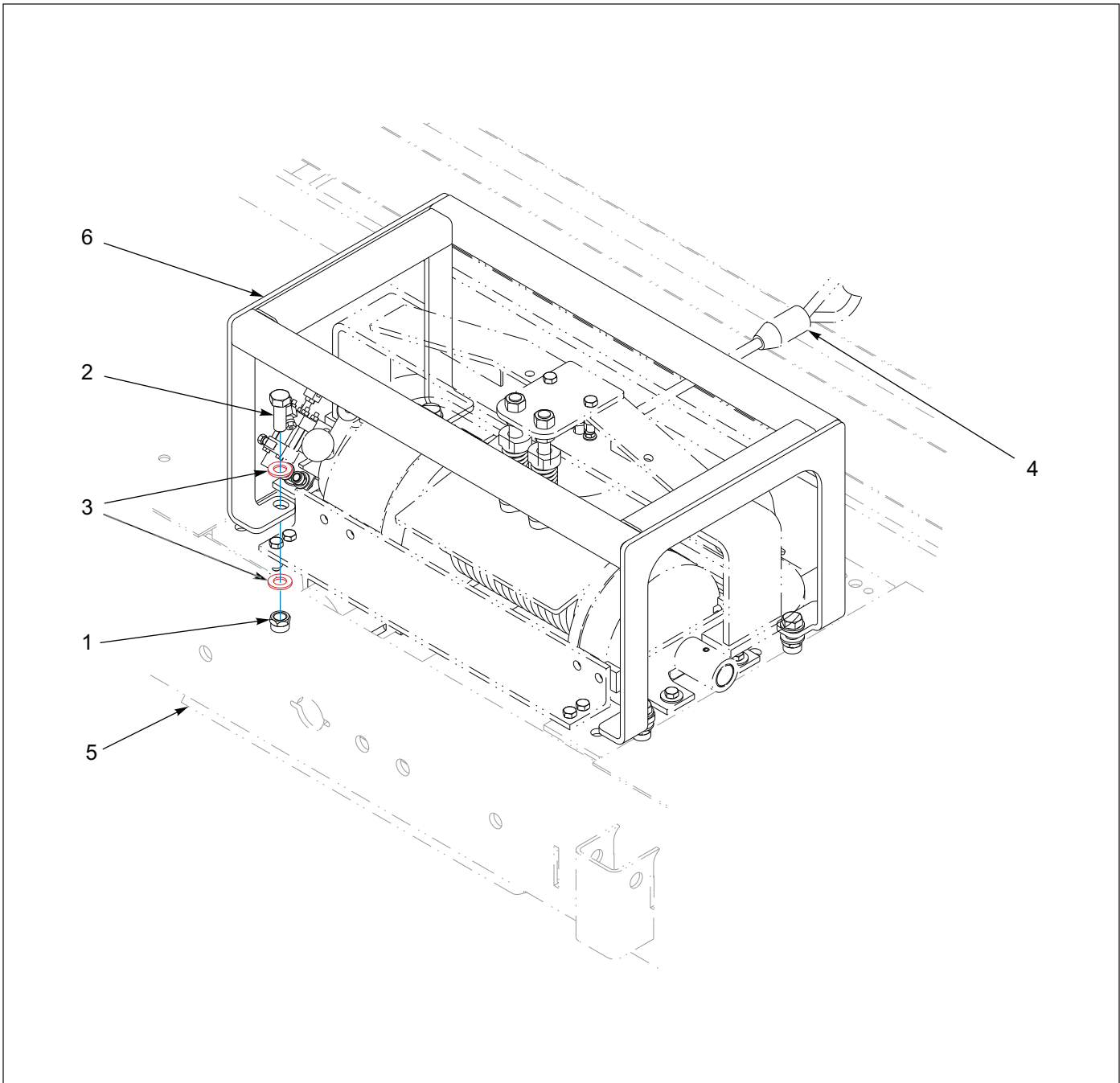


Figure 1-157: Guard Assembly, Pivot 20K

Guard Assembly, Pivot 20K

ITEM	PART NUMBER	DESCRIPTION	QTY.
	163769	GUARD INSTALLATION, WINCH 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	2
4	123210	WINCH, 20K GUIDE AIR TEN/REL	--
5	-----	GOOSENECK WELDMENT	--
6	163770	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1

[illegible]

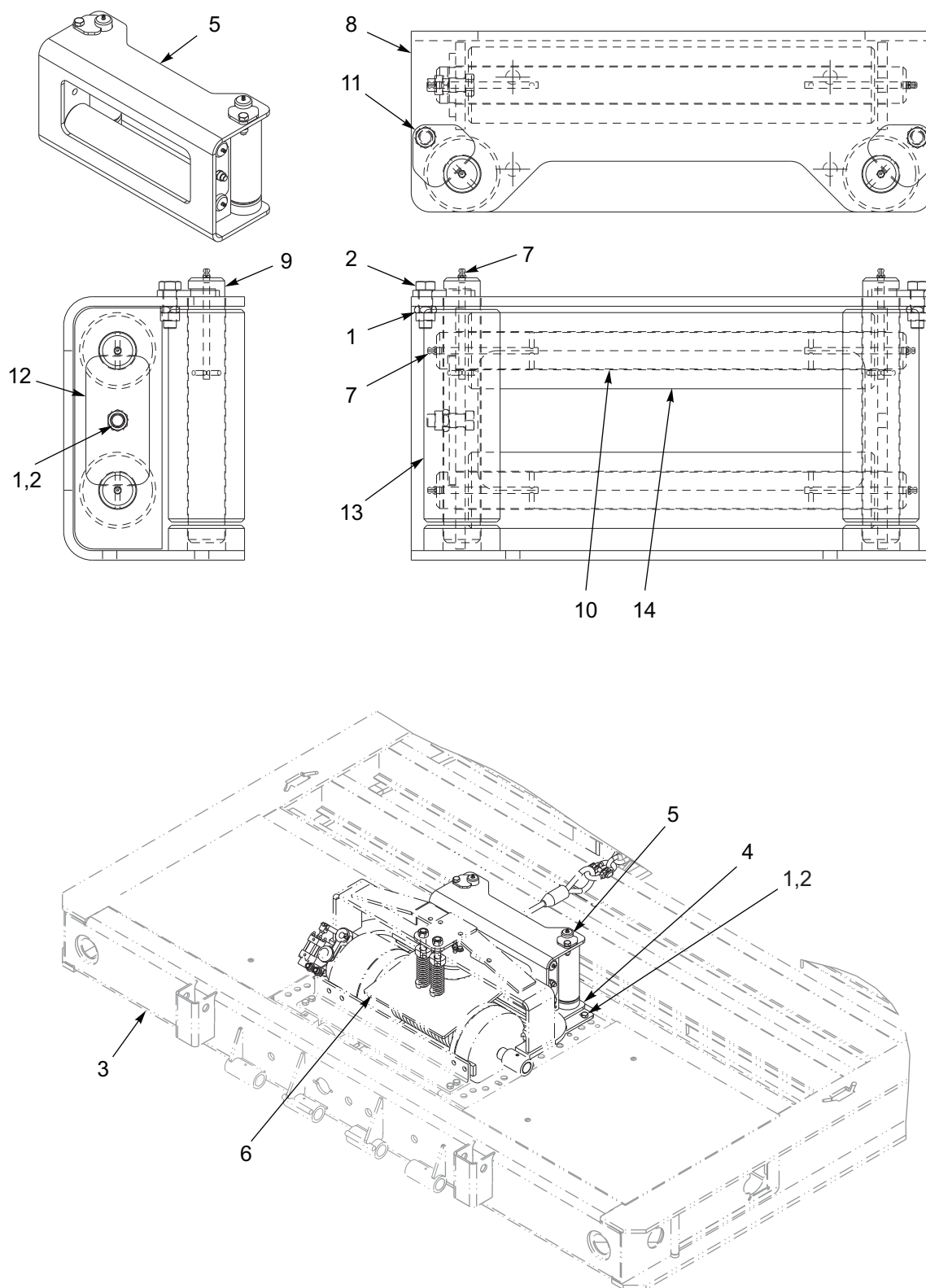


Figure 1-158: Guide Assembly, 4 Roller 20K(BRADEN)

Guide Assembly, 4 Roller 20K (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	145589	4 ROLLER GUIDE INSTALLATION	--
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
3	130662	GOOSENECK WELDMENT	--
4	145588	PLATE, ROLLER GUIDE MOUNT	1
5	3-352-010067-2	GUIDE ASSEMBLY, WINCH (INCLUDES ITEMS 1-2, 7-14)	1
6	3-873-010140-01	WINCH INSTALLATION, 20K UPPER DECK	--
7	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
8	3-120-010494	BRACKET WELDMENT, 20K WINCH GUIDE	1
9	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
10	3-557-010544	PIN, HORIZONTAL ROLLER 20K GUIDE	2
11	3-565-011792	PLATE, GUIDE LOCK TOP	2
12	3-565-011793	PLATE, GUIDE LOCK SIDE	1
13	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2
14	3-645-010088	ROLLER, HORIZONTAL 20K WINCH GUIDE	2

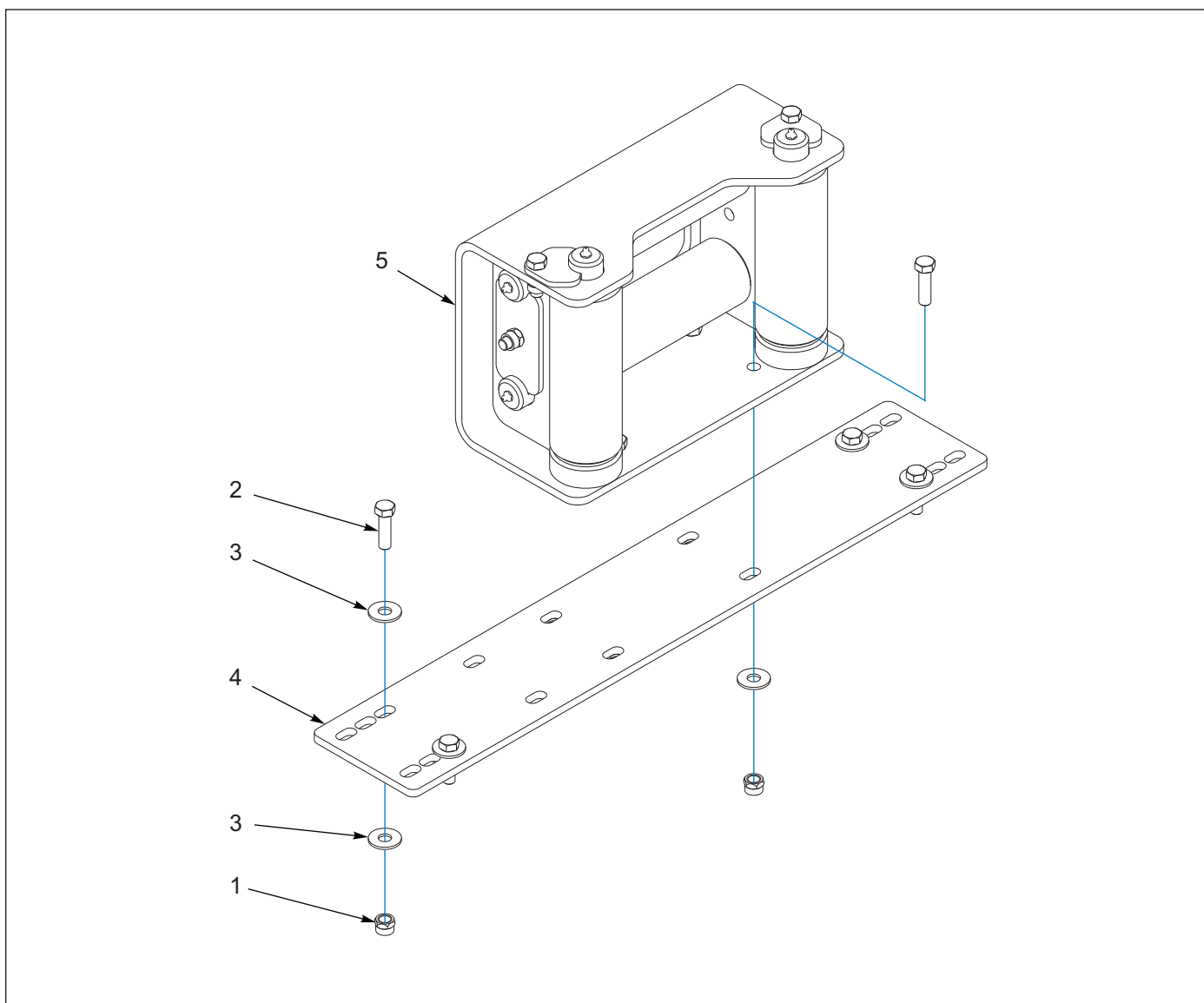


Figure 1-159: Guide Assembly, 4 Roller 12K (BRADEN) Installation

Guide Assembly, 4 Roller 12K (BRADEN) Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
--	161155	4 ROLLER GUIDE INSTALLATION, 12K BRADEN	--
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
2	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	8
3	1-861-010032-15	WASHER, FLAT 1/2W	12
4	145588	PLATE, ROLLER GUIDE MOUNT	1
5	161150	GUIDE ASSEMBLY, WINCH 12K BRADEN	1

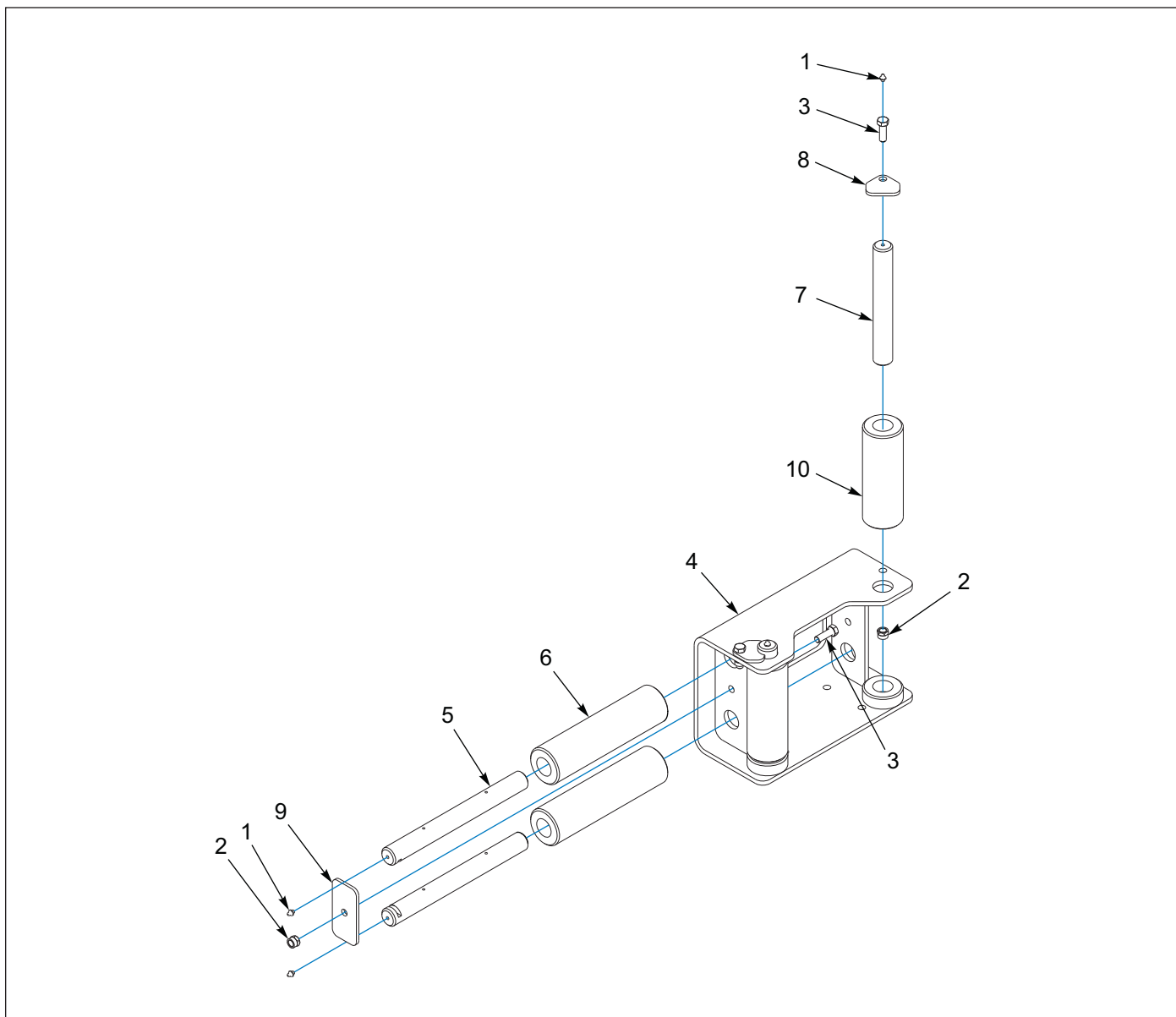


Figure 1-160: Guide Assembly, 4 Roller 12K (BRADEN) Assembly

Guide Assembly, 4 Roller 12K (BRADEN) Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
--	161150	GUIDE ASSEMBLY, WINCH 12K (BRADEN)	--
1	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	3
4	161151	BRACKET WELDMENT, WINCH GUIDE	1
5	161153	PIN, HORIZONTAL ROLLER GUIDE	2
6	161154	ROLLER, HORIZONTAL WINCH GUIDE	2
7	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
8	3-565-011792	PLATE, GUIDE LOCK TOP	2
9	3-565-011793	PLATE, GUIDE LOCK SIDE	1
10	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2

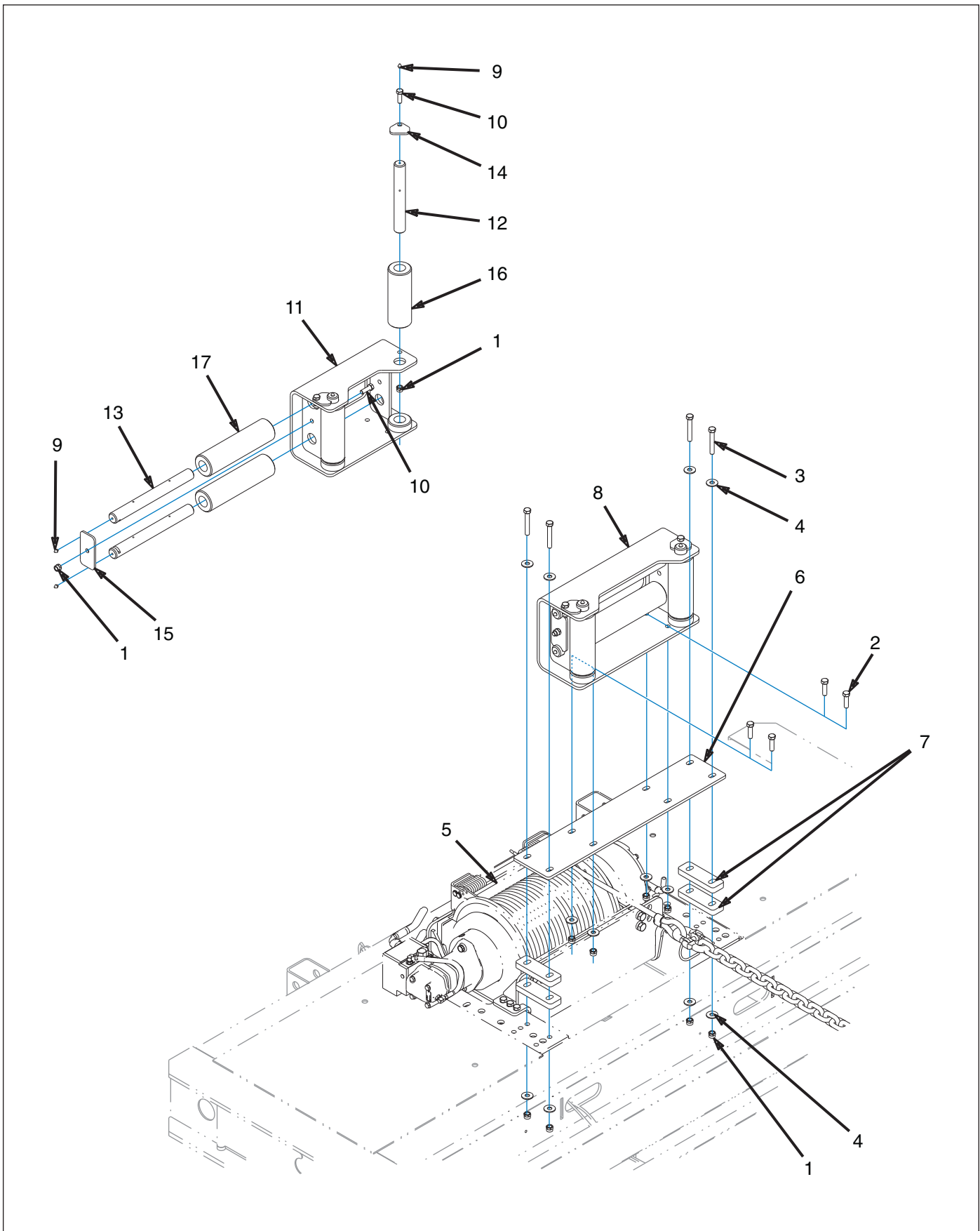


Figure 1-161: Guide Assembly, 4 Roller 20K/30K (WARN)

Guide Assembly, 4 Roller 20K/30K (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
--	162258	4 ROLLER GUIDE INSTALLATION (WARN)	--
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	--
5	155411	WINCH INSTALLATION, 30K WARN	--
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

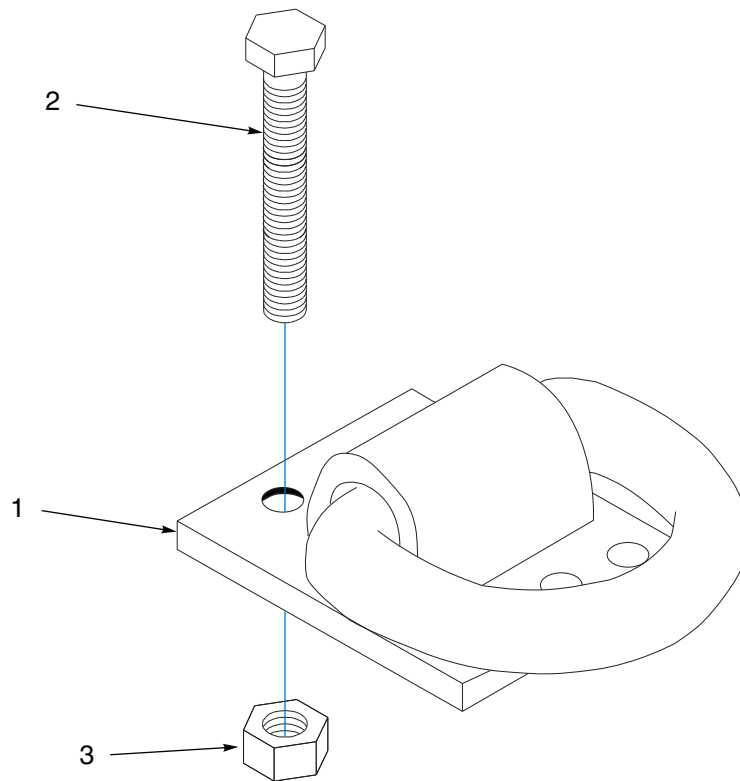


Figure 1-162: Tie Down Assembly, D-Ring

Tie Down Assembly, D-Ring

ITEM	PART NO.	DESCRIPTION	QTY.
--	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	--
1	3-793-010040	TIE DOWN, WINCH	1
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	6
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6

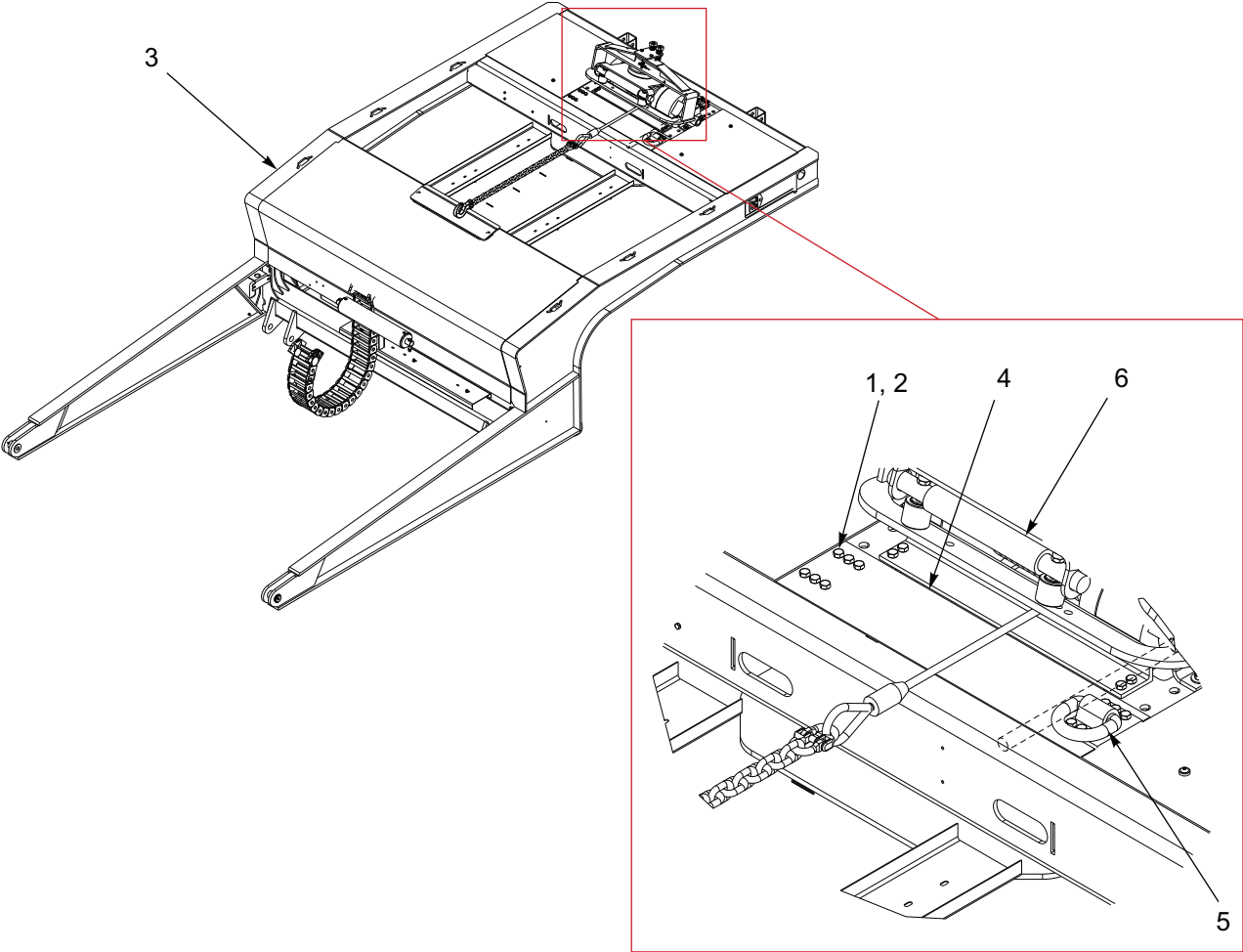


Figure 1-163: Trim Plate Installation

Trim Plate Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	166767	WINCH TRIM PLATE INSTALLATION	--
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	195882	FRAME ASSY, 930-36	--
5	204160	PLATE, WINCH TRIM REAR WINCH	1
6	3-873-010140-06	WINCH 660-20AT-AS-CR WL ONLY	--

[illegible]

Symbols

#242 LOCKTITE 1-50, 1-87, 1-133

Numerics

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 005-079-00 1-89, 1-97
 005-096-00 1-97
 005-097-00 1-97
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Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
03/11/2020	F-1004-0320	ECN Updates
04/14/2020	F-1004-0420	ECN Updates
05/01/2020	F-1004-0520	ECN Updates
12/23/2020	F-1004-1220	ECN 46058 Update
09/14/2021	F-1004-0921	Updated LSS-25K-3.5 and 5.5 Suspension, 12.25 and 16.5 Disc Brakes.
10/24/2022	F-1004-1022	ECN Updates



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