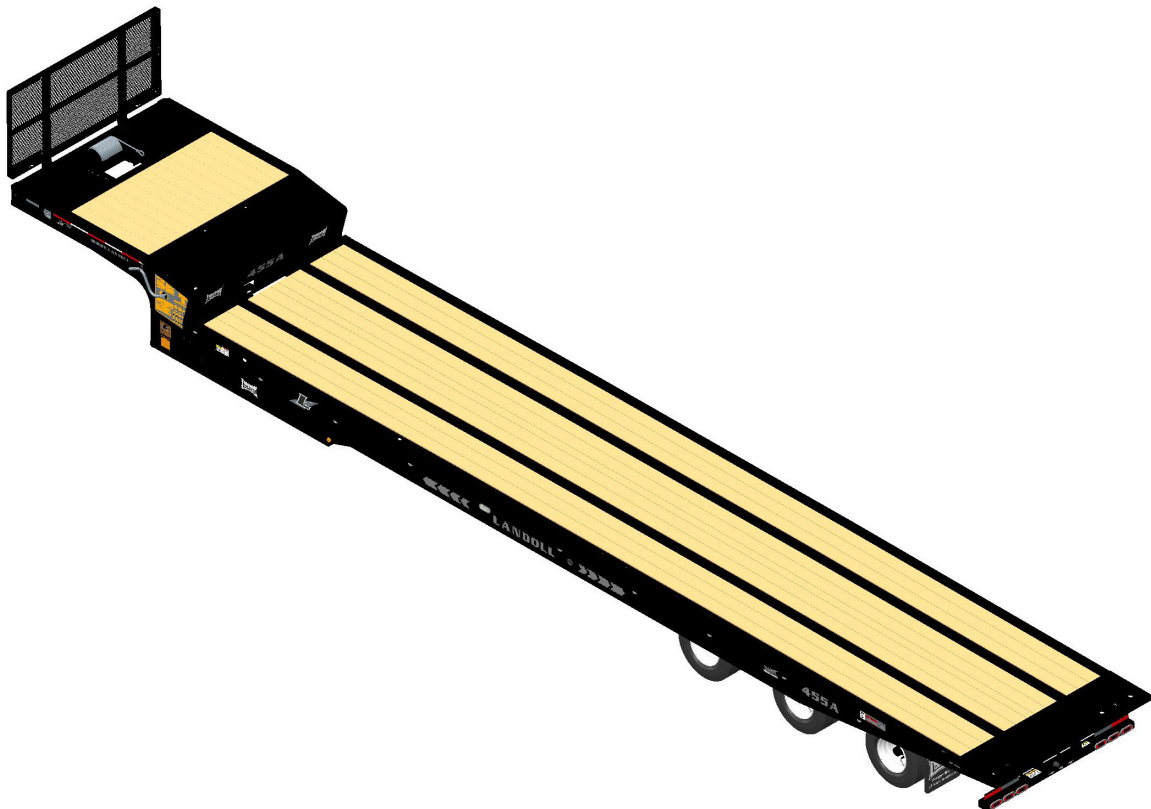




Model 440B/455B Semitrailer Parts Manual



LANDOLL CORPORATION

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Marysville, Kansas 66508

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Illustrated Parts List

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
ORDER ONLINE: Dealer.landoll.com

FAX NO: 888-527-3909

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 440B/455B Series Semitrailer is located on the identification plate.

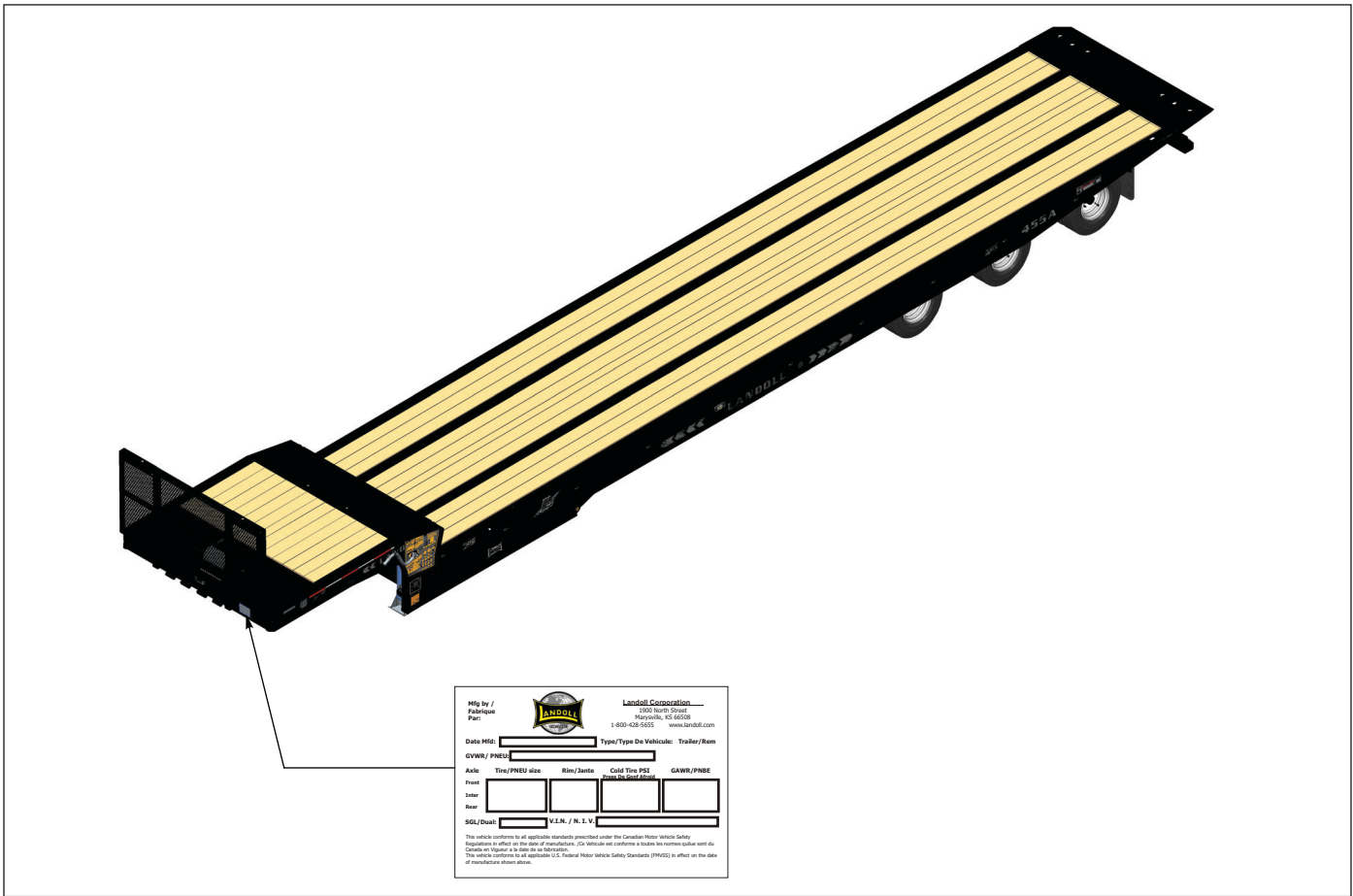


Figure 1-1: Identification Plate and Location

General Assembly

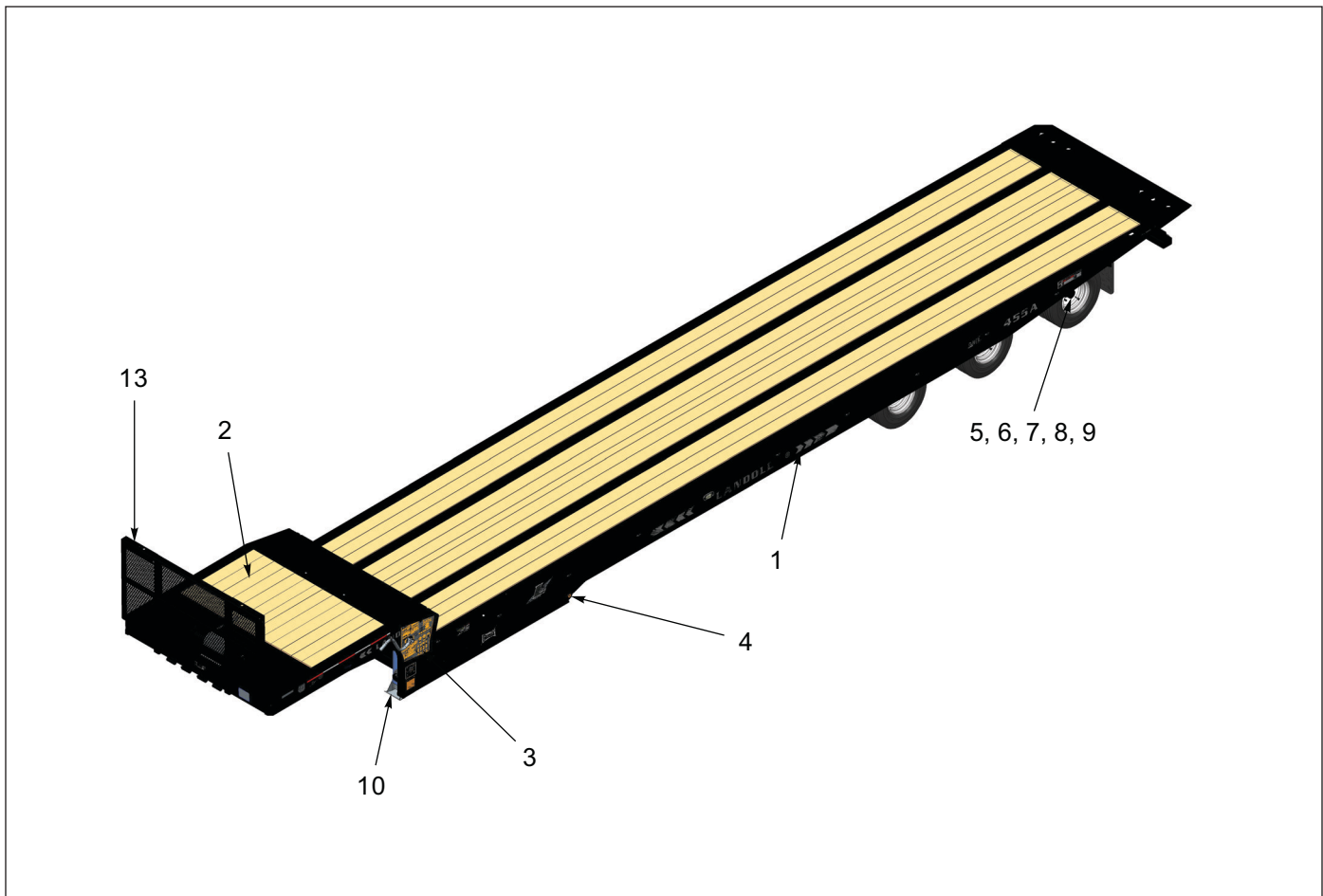
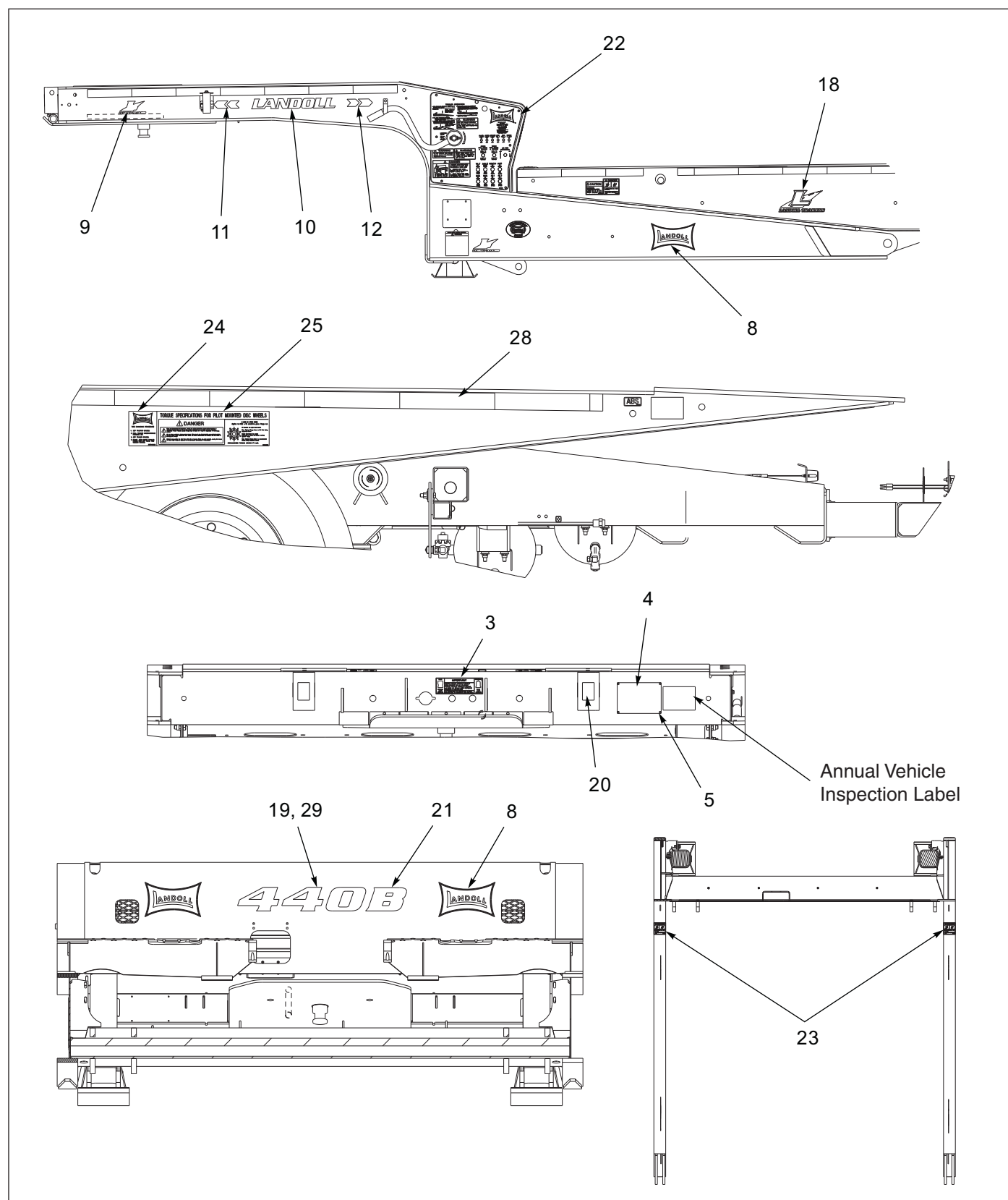


Figure 1-2: General Assembly

General Assembly

ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1	1-3 - 1-5	DECAL INSTALLATION	----
2	1-6 - 1-11	UPPER DECK ASSEMBLY	----
3	1-12 - 1-29	HYDRAULIC SYSTEM AND ASSEMBLIES	----
4	1-30 - 1-35	ELECTRICAL SYSTEM AND REMOTE ASSEMBLIES	----
5	1-35 - 1-47	UNDERCARRIAGE ASSEMBLIES	----
6	1-47 - 1-57	AIR RIDE SUSPENSION	----
7	1-57 - 1-63	AXLE AND BRAKE ASSEMBLY	----
8	1-63 - 1-71	AIR BRAKE SYSTEM	----
9	1-69- 1-81	TIRE INFLATION SYSTEM	----
10	1-75 - 1-108	WINCHES	----
11	1-102 - 1-124	LANDING GEAR AND DOCK LEGS (NOT SHOWN)	----
12	1-119 - 1-127	SCALES (NOT SHOWN)	----
13	1-122 - 1-138	BULKHEADS	----
14	1-133 - 1-205	BUMPER, ELECTRICAL, ENGINE DRIVES & MISC. OPTIONS (NOT SHOWN)	----

Decals



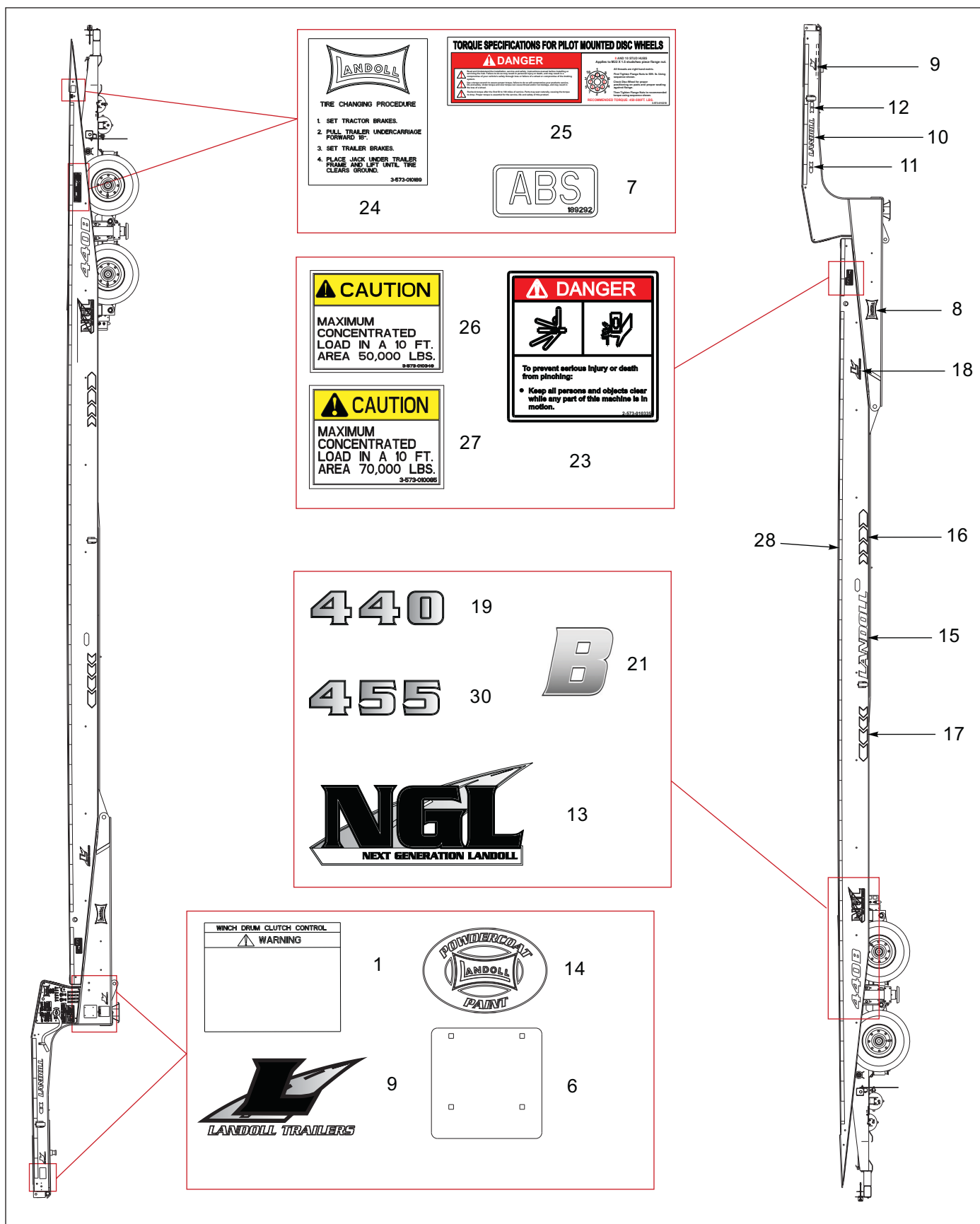


Figure 1-4: Decal Installation (2 of 2)

Decal Installation & Arrangement

ITEM	PART NO.	DESCRIPTION	QTY.	
	212374	DECAL INSTALLATION 440B	*	
	214440	DECAL INSTALLATION 455B	*	
1	100600	DECAL, WARNING, BRADEN WINCH	REF	REF
2	101855	WARNING LAMP LABEL, ABS (NOT SHOWN)	1	1
3	105822	DECAL HYD COUPLER	1	1
4	155780	INFORMATION FOR TRAILER VIN	1	1
5	156010	RIVET, BLIND, .156 X 1/2 GRIP	4	4
6	189253	PLATE, COVER, WEIGH SCALE	1	1
7	189292	DECAL, ABS, WHITE	1	1
8	192208	DECAL, BOWTIE 6-3/4 X 11	4	4
9	196165	DECAL, HIGHWAY L	3	3
10	196167	DECAL, LANDOLL SMALL	2	2
11	196168	DECAL, ARROW SMALL 2LH	2	2
12	196169	DECAL, ARROW SMALL 2RH	2	2
13	196171	DECAL, NEXT GENERATION	2	2
14	196173	DECAL, POWDERCOAT SMALL	1	1
15	196174	DECAL, LANDOLL LARGE	2	2
16	196175	DECAL, ARROW LARGE 4RH	2	2
17	196176	DECAL, ARROW LARGE 4LH	2	2
18	196177	DECAL, HIGHWAY L LARGE	2	2
19	197419	DECAL, 440 TRAILER	3	--
20	202578	REFLEXITE WHITE 3 IN. LENGTH	REF	REF
21	212388	DECAL LETTER B	3	3
22	212432	PLACARD CONTROL PANEL	1	1
23	2-573-010335	DECAL, DANGER, PINCH POINT	4	4
24	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1	1
25	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1	1
26	3-573-010349	DECAL, CAUTION, 50K/10FT CONC LOAD	2	2
27	3-573-010085	DECAL, CAUTION, 70K/10FT CONC LOAD	2	2
28	3-573-010377	DECAL, 2 IN. REFLEXITE TAPE, RED/WHITE	REF	REF
29	197420	DECAL, 455 TRAILER	--	3

Upper Deck

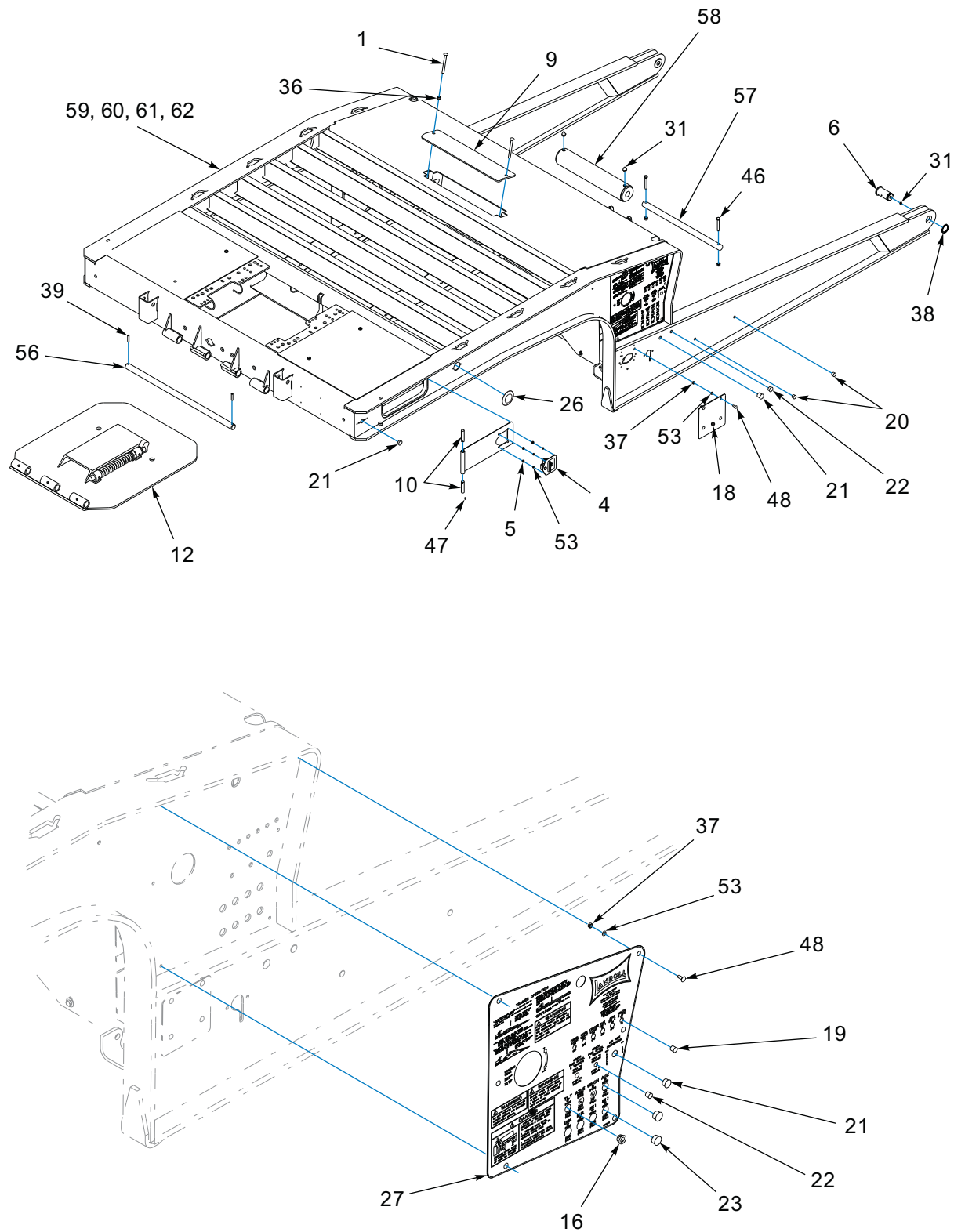


Figure 1-5: Upper Deck Assembly (1 of 3)

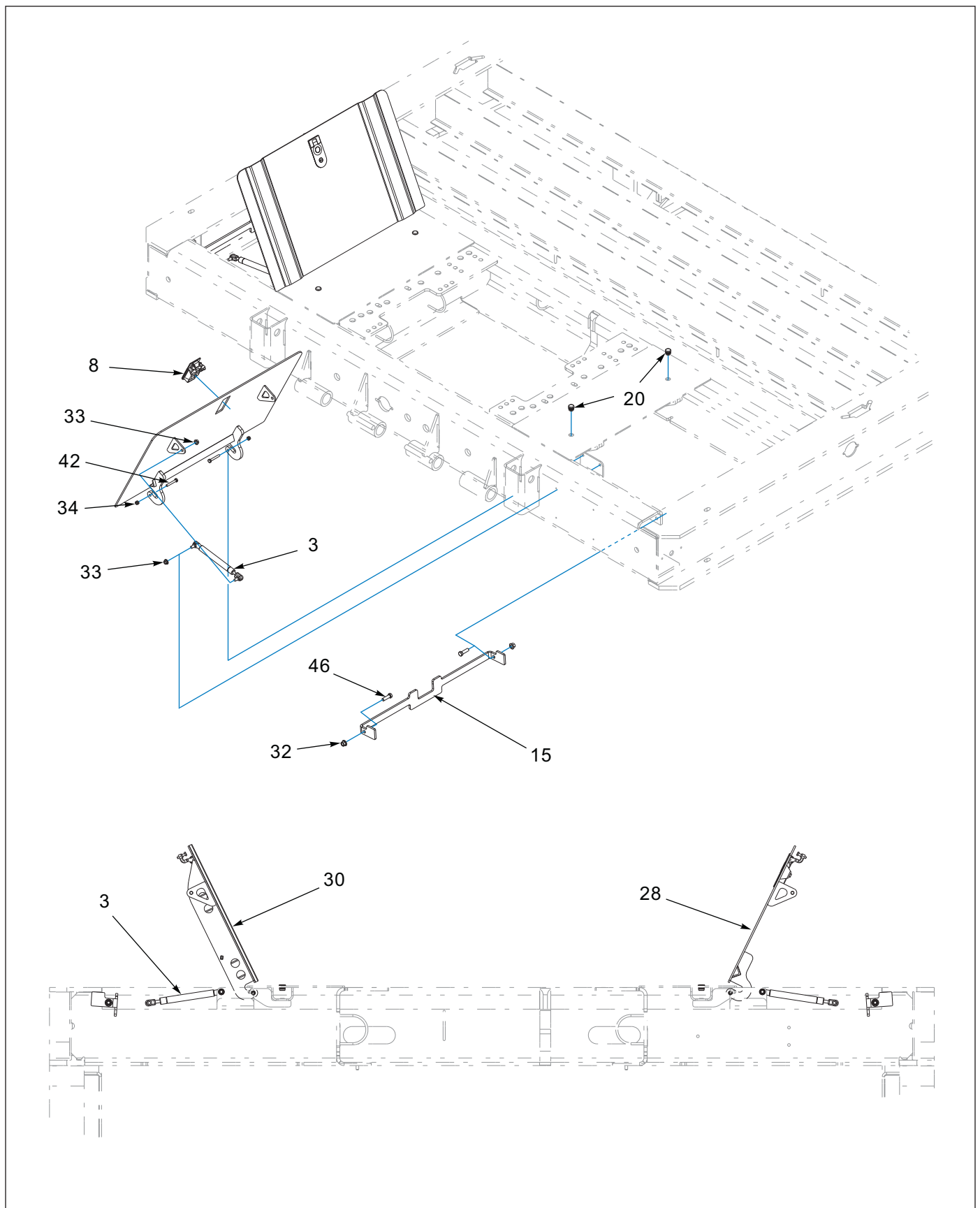


Figure 1-6: Upper Deck Assembly (2 of 3)

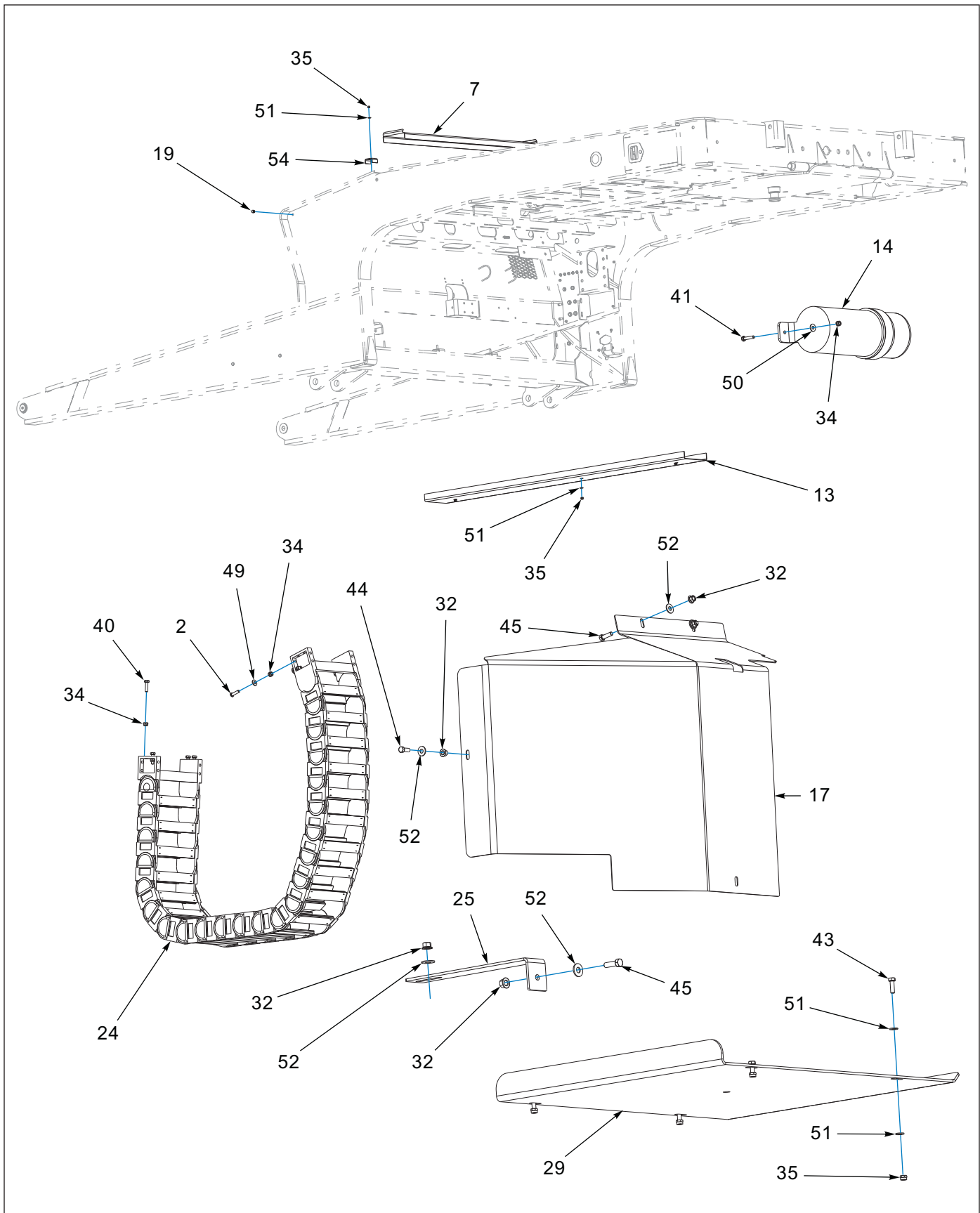


Figure 1-7: Upper Deck Assembly (3 of 3)

Upper Deck Assembly

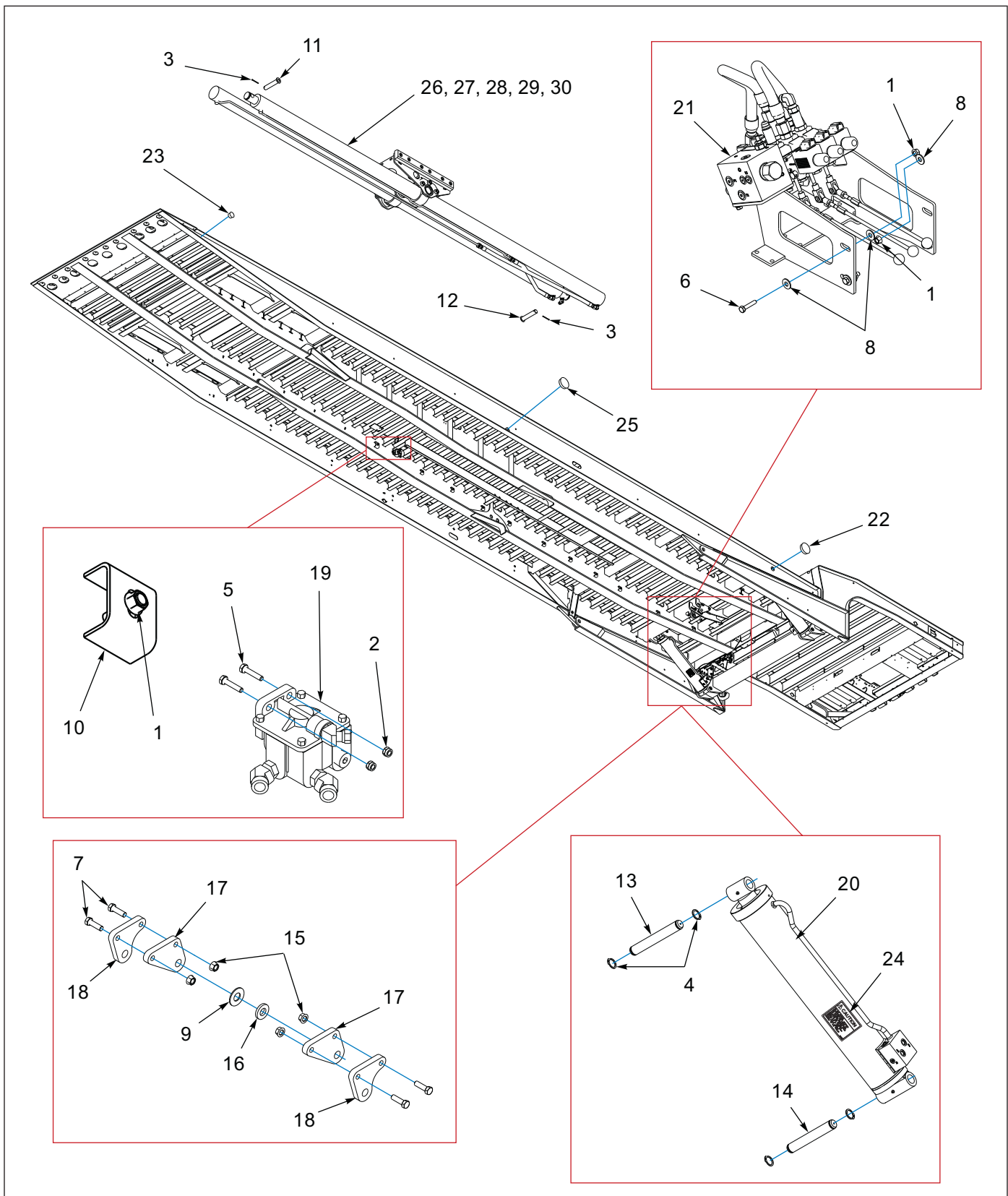
ITEM	PART NO.	DESCRIPTION	QTY.			
	213994	G/N ASSEMBLY, TOP TLBX	*			
	215202	G/N ASSEMBLY, 400B SIDE TLBX	*			
	215196	G/N ASSEMBLY, 400B HD TOP TLBX	*			
	214643	G/N ASSEMBLY, 400B HD SIDE TLBX	*			
1	100939	SCREW, RD HD, SQ NK, 1/2-13X5-1/2	2	2	2	2
2	108610	SCREW, BHSC 1/4-20UNCX1	4	4	4	4
3	110435	BT CONSOLE LIFT, GAS SPRING	2	--	2	--
4	114814	LATCH, FOLDING T, LOCKABLE	--	2	--	2
5	115877	NUT, HEAVY HEX, 1/4-20 GR5	--	8	--	8
6	116943	PIN WLDMT, PIVOT 410	2	2	2	2
7	117565	COVER, HOSE LOWER, 410 G/N	1	1	1	1
8	118853	COMPRESSION LATCH	2	--	2	--
9	131196	PLATE, WINCH CABLE WEAR U/D 400	1	1	1	1
10	135181	BUSHING, NYLATRON TOOLBOX	--	4	--	4
11	136352	DOOR, WLDMT, TOOLBOX 400, RMV	--	2	--	--
11	140851	DOOR, WLDMT, TOOLBOX, 410HD, RMV	--	--	--	2
12	141609	HITCH PLATE ASSEMBLY, 400	1	1	1	1
13	145104	COVER, HOSE UPPER, 410 HD	--	--	2	2
14	150076	MANUAL HOLDER, 4-1/4 ID	1	1	1	1
15	176069	CHAIN HOLDER	2	--	2	--
16	178444	BUSHING NYLON INSERT 9/16 ID	3	3	3	3
17	186890	SHIELD, HYD CONTROLS	1	1	1	1
18	189253	PLATE COVER, WEIGH SCALE	1	1	1	1
19	189278	PLUG, PLASTIC PANEL, 1/2 - 9/16	6	6	6	6
20	189279	PLUG, PLASTIC PANEL, 5/8	8	4	8	4
21	189280	PLUG, PLASTIC PANEL, 3/4	3	3	3	3
22	189281	PLUG, PLASTIC PANEL, 13/16	3	3	3	3
23	189282	PLUG, PLASTIC PANEL, 7/8	5	5	5	5
24	189326	SUPPORT, E-CHAIN, 22 LINKS, 3838W	1	1	1	1
25	192152	SHIELD BRACE, G/N 400A	1	1	1	1
26	204158	HOLE, PLUG 2-1/4 ID X 3-5/8 OD	2	2	2	2
27	212432	PLACARD, CONTROL PANEL, 400B	1	1	1	1
28	213496	NWB TOOLBOX LID	REF	--	REF	--
29	213500	G/N TOOLBOX BOTTOM PLATE	1	1	1	1
30	213502	EURO TOOLBOX DOOR	REF	--	REF	--
31	1-298-010001-1	FITTING, GREASE, 1/4-28 STR SHORT	4	4	4	4
32	1-510-010001	NUT, 3/8-16 UNC, FLANGE LOCK	11	7	11	7
33	1-510-010004-03	NUT, FLG HD, SPIRAL LOCK, 5/16-18 UNC	4	--	4	--
34	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC, GRB	15	11	15	11
35	1-512-010005-03	NUT, HEX, SLFLKG, 5/16-18 UNC, GRB	17	17	15	17
36	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	4	4	4	4
37	1-512-010007-05	NUT, HEX, 1/4-20 UNC, GR2	10	10	10	10
38	1-630-010021-02	RING, RETAINING 2 HD	2	2	2	2
39	1-647-010004255	ROLL PIN, SLOTTED, 3/8 X 2	2	2	2	2
40	1-654-010047-06	SCREW, HEX, 1/4-20UNX1 GR5	4	4	4	4
41	1-654-010047-07	SCREW, HEX, 1/4-20UNCX1-1/4 GR5	3	3	3	3
42	1-654-010047-09	SCREW, HEX, 1/4-20UNCX1-3/4 GR5	4	--	4	--
43	1-654-010049-05	SCREW, HX CP, 5/16-18UNC X 1 GR5	8	8	8	8
44	1-654-010051-05	SCREW, HEX, 3/8-16UNCX1 GR5	1	1	1	1

Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.			
45	1-654-010051-06	SCREW, HEX, 3/8-16UNCX1-1/4 GR5	7	3	7	3
46	1-654-010055-11	SCREW, HEX, 1/2-13UNCX3-1/2 GR5	2	2	2	2
47	1-654-010147-06	SCREW, RNDHD, SLF/TPG #6-20X3/4	--	8	--	8
48	1-654-010158-1	SCREW, RD HD, SQ NCK, 1/4-20X3/4	10	10	10	10
49	1-861-010032-06	WASHER, FLAT, ZP/CD, 1/4N	4	4	4	4
50	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	3	3	3	3
51	1-861-010032-08	WASHER, FLAT, ZP/CD, 5/16N	25	25	23	25
52	1-861-010032-11	WASHER, FLAT, ZP/CD, 3/8W	6	6	5	5
53	1-861-010034-09	WASHER, LKG, HLCL SPR, 1/4	10	18	10	18
54	2-181-010001	CLAMP	3	3	3	3
55	1-822-010001	TRIM 1350 3/8 BLK FINE PEBBLE	16F	16F	16F	16F
56	3-557-010469	HINGE PIN, FIFTH WHEEL	1	1	1	1
57	3-642-010134	ROLLER ROD	1	1	1	1
58	3-645-010059	ROLLER WLDMT, CABLE-UPPER DECK	1	1	1	1
59	213978	G/N WLDMT, 400B TOP TLBX	REF	--	--	--
60	215198	G/N WLDMT, 400B SIDE DOOR	--	REF	--	--
61	215192	G/N WLDMT, 400B HD, TPTLBX	--	--	REF	--
62	214639	G/N WLDMT, 400B HD SIDE DOOR	--	--	--	REF

[illegible]

Hydraulic Electrical Air



General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.							
	212396	HYD ELE AIR 440B-41-102 REMOTE	*							
	212398	HYD ELE AIR 440B-48-102/108 REMOTE		*						
	212407	HYD ELE AIR 440B-50-102/108 REMOTE			*					
	212412	HYD ELE AIR 440B-53-102/108/120 REMOTE				*				
	214442	HYD ELE AIR 455B-48/50-102/108/120 REMOTE					*			
	214444	HYD ELE AIR 455B-50/53 102/108 REMOTE						*		
	215745	HYD ELE AIR 455B-57-102/108 REMOTE							*	
1	1-510-010001	NUT, 3/8-16 UNC FLANGE LOCK	12	14	14	16	14	17	18	
2	1-512-010005-01	NUT,HEX,SLFLKG, 1/4-20 UNC,GRB	2	2	2	2	2	2	2	
3	1-557-010362-54	PIN, COTTER, 3/16 X 2 1/4	2	2	2	2	2	2	2	
4	1-630-010021-01	RING, 1.5 RETAINING HD	8	8	8	8	8	8	8	
5	1-654-010027-7	SCREW.HEX, 1/4-20UNCX1-1/4 GR8	2	2	2	2	2	2	2	
6	1-654-010051-07	SCREW, HEX, 3/8-16UNCX 1-1 /2 GR5	2	2	2	2	2	2	2	
7	1-654-010061-07	SCREW, HEX, 3/ 4-10UNCX2 1 /2 GR5	4	4	4	4	4	4	4	
8	1-861-010032-11	WASHER, FLAT, ZP/CD, 3/8W	6	6	6	6	6	6	6	
9	1-861-010032-29	WASHER, FLAT, ZP/CD, 1-1/ /4W	1	1	1	1	1	1	1	
10	2-181-010001	CLAMP	8	10	10	12	10	13	14	
11	3-557-010031	PIN, CYL., UNDERCARRIAGE	2	2	2	2	1	1	1	
12	3-557-010033	PIN, CYL. BUTT END	--	--	--	--	1	1	1	
13	3-557-010470-01	PIN, 1-1/2 X 9-1/8 ZP	2	2	2	2	2	2	2	
14	3-557-010470-02	PIN, 1-1/2 X 9-13/16 ZP	2	2	2	2	2	2	2	
15	103841	NUT,FLG,PREVAILING TR0,3/4-10 UNC	4	4	4	4	4	4	4	
16	123150	WASHER CYLINDER PIN 410	1	1	1	1	1	1	1	
17	127422	ANCHOR CYLINDER ADJ BOLT-ON	--	2	--	2	2	2	2	
18	127691	ANCHOR CYL ADJ BOLT-ON 435CA	2	--	2	--	--	--	--	
19	141607	VALVE ASSY AIR BOOSTER	1	1	1	1	1	1	1	
20	186807	CYLINDER, 6IN. X 41IN. X 30IN. STROKE,CB	2	2	2	2	2	2	2	
21	186886	VALVE ASSY,3 SPL,35GPM,SOLENOID	1	1	1	1	1	1	1	
22	189276	PLUG, PLASTIC PANEL 2-1 /2	2	2	2	2	2	2	2	
23	189280	PLUG, PLASTIC PANEL 3/ 4	1	1	1	1	1	1	1	
24	193455	DECAL CAUTION CNTR BLNCE VALVE	2	2	2	2	2	2	2	
25	204158	HOLE PLUG 2-1 /4" ID X 3-5/8" OD	2	2	2	2	2	2	2	
26	189258	CYL ASSY U/C 440A-50CA	--	--	1	--	--	--	--	
27	189259	CYL ASSY U/C 440A-53	--	--	--	1	--	--	1	
28	189261	CYL ASSY U/C 440A-48/455A-50CA	--	1	--	--	1	1	--	
29	189262	CYL ASSY U/C 440A-41	1	--	--	--	--	--	--	
30	189267	CYL ASSEMBLY U/C 455-48/50CA	--	--	--	--	1	--	--	

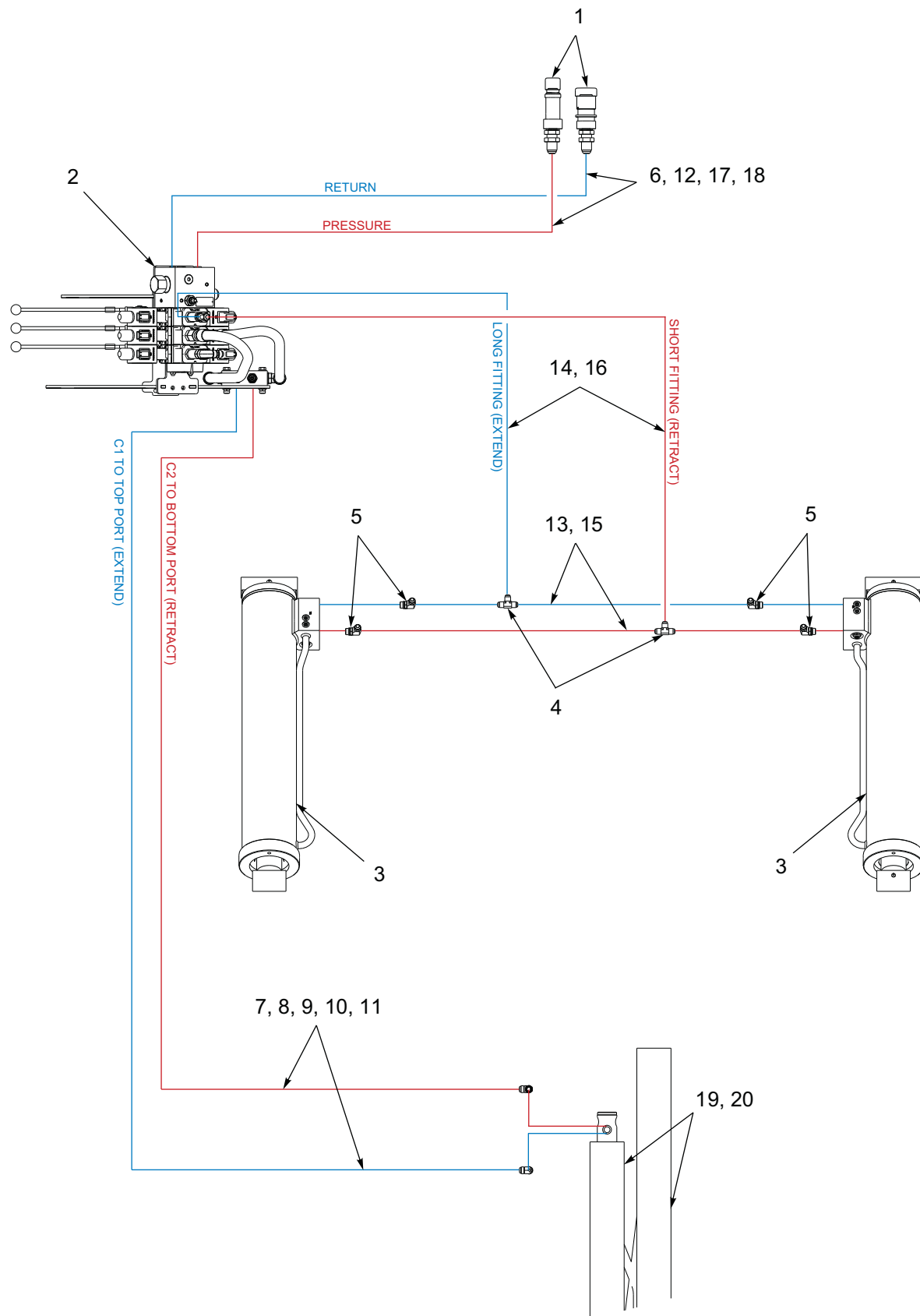


Figure 1-9: Hydraulic System

Hydraulic System

ITEM	PART NO.	DESCRIPTION	QTY.		
	212396	HYD ELE AIR 440B-41-102 REMOTE	*		
	212398	HYD ELE AIR 440B-48-102/108 REMOTE	*		
	212407	HYD ELE AIR 440B-50-102/108 REMOTE	*		
	212412	HYD ELE AIR 440B-53-102/108/120 REMOTE	*		
	214442	HYD ELE AIR 455B-48/50-102/108/120 REMOTE		*	
	214444	HYD ELE AIR 455B-50/53-102/108 REMOTE		*	
	215745	HYD ELE AIR 455B-57-102/108 REMOTE			*
1	143163	CONNECTOR, FRONT SUB ASSEMBLY	REF	REF	REF
2	186886	VALVE ASSEMBLY, 3-SPOOL, 35GPM, SOLE	REF	REF	REF
3	186807	CYLINDER, 6 X 30, 30 STROKE, CB	REF	REF	REF
4	2033-8-8S	ADAPTER, TEE #8 UNION	2	2	2
5	2062-8-8S	ADAPTER, 90, #8 O-RING TUBE	4	4	4
6	166352	HOSE ASSEMBLY, 3/4 X 180 SAE37 STR	2	2	2
7	189297	HOSE ASSEMBLY, 5/8 X 164 SAE37 STR	2	2	--
8	189354	HOSE ASSEMBLY, 5/8 X 134 SAE37 STR	--	2	--
9	189355	HOSE ASSEMBLY, 5/8 X 158 SAE37 STR	--	2	2
10	189356	HOSE ASSEMBLY, 5/8 X 144 SAE37 STR	2	--	--
11	189357	HOSE ASSEMBLY, 5/8 X 122 SAE37 STR	--	2	--
12	190634	HOSE ASSEMBLY, 3/4 X 204 SAE37 STR90	2	2	--
13	1410119	HOSE ASSEMBLY, 1/2 X 50 SAE37, STR90	4	4	4
14	1422072	HOSE #8 ASSEMBLY, 78.5 IN. OAL	2	2	--
15	1-397-010301064	HOSE ASSEMBLY, 1/2 X 64, SAE37 STR	4	4	--
16	1-397-010302070	HOSE ASSEMBLY, 1/2 X 70, SAE37 STR	2	2	2
17	1-397-0105190	HOSE ASSEMBLY, 3/4 X 190, SAE37 STR90	2	2	--
18	1-397-0105216	HOSE ASSEMBLY, 3/4 X 216, SAE37, STR90	2	2	--
19	189259	CYL ASSEMBLY, U/C 440A-53	REF	--	--
20	189267	CYL ASSEMBLY, U/C 455-48/50CA	--	REF	REF

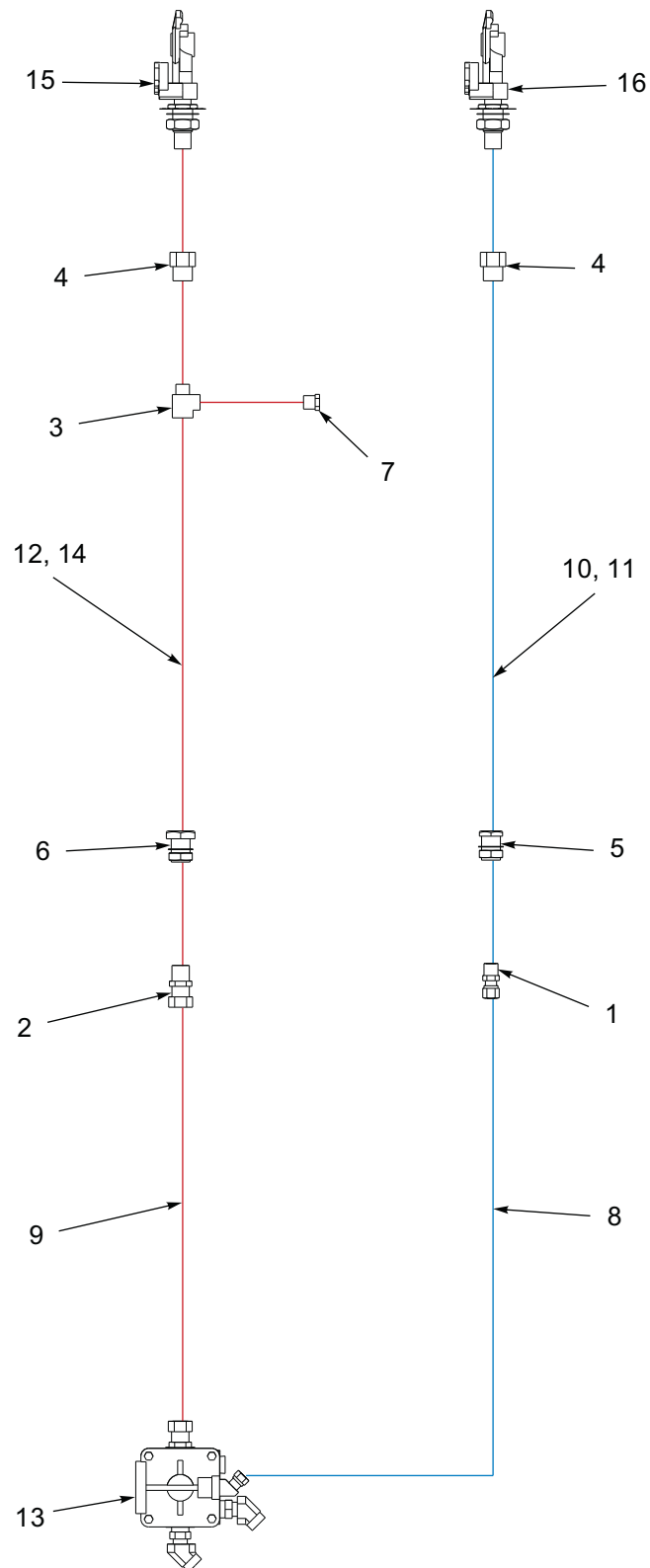


Figure 1-10: Air System

Air System

ITEM	PART NO.	DESCRIPTION	QTY.	
	212396	HYD ELE AIR 440B/455B STD	*	
	212412	HYD ELE AIR 440B/455B HD	*	
1	1-297-010007-12	FITTING, AIR 3/8 TUBE TO 3/8 NPT	1	1
2	1-297-010007-16	FITTING, AIR 1/2 TUBE X 1/2 NPT	1	1
3	1-297-010018-03	FITTING, BRS PIPE, ST TEE 3/8	1	1
4	1-297-010021-05	FITTING, BRS PIPE, CPLG 1/2 X 3/8	2	2
5	1-297-010022-03	FITTING, AIR ANCHR CPLG, 3/8 NPT	1	1
6	1-297-010022-04	FITTING, AIR ANCHR CPLG, 1/2 NPT	1	1
7	1-297-010033-03	FITTING, BRASS PLUG, HEX 3/8 NPT	1	1
8	1-833-010002	TUBING NYLON, 3/8 OD	18	18
9	1-833-010003	TUBING NYLON, 1/2 OD	18	18
10	100949	HOSE, AIR 3/8 X 222, WITH 3/8 ENDS	1	--
11	122557	HOSE, AIR 1/2 X 240,.38-.5 NPT	1	--
12	141607	VALVE ASSY, AIR BOOSTER (SEE PAGE 1-25)	REF	REF
13	149051	HOSE, AIR 1/2X264, .38-.5 NPT (USED ON HD ONLY)	--	1
14	109209	HOSE, AIR 3/8X244 W/ 3/8 ENDS (USED ON HD ONLY)	--	1
15	108801	GLAD HAND, RED, AIR	1	1
16	108802	GLAD HAND, BLUE, AIR	1	1

Cylinders & Air Connectors

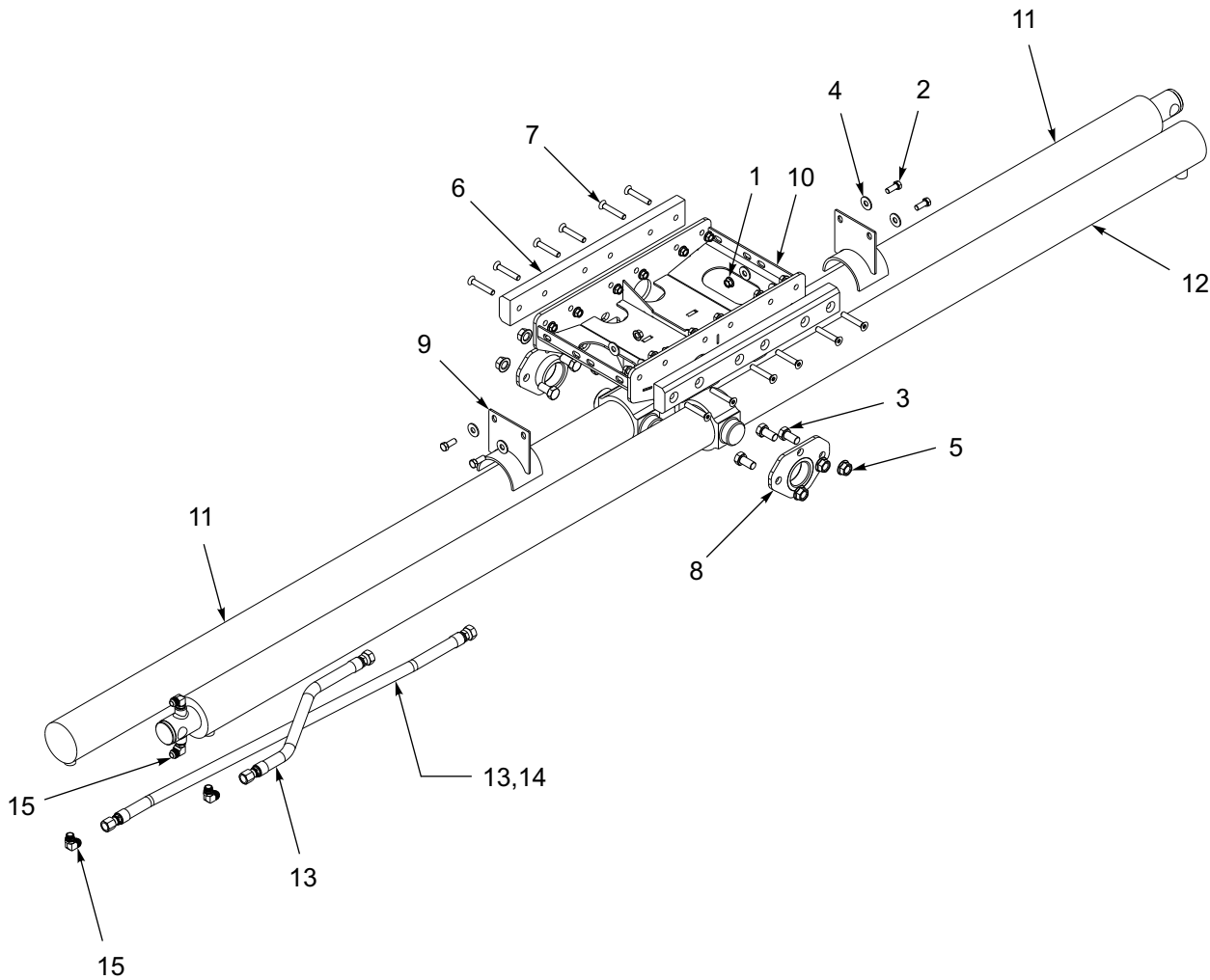


Figure 1-11: Cylinder Assembly - U/C

Cylinder Assembly - U/C

ITEM	PART NO.	DESCRIPTION	QTY.				
	189258	CYL ASSY, U/C 440A-50CA	*				
	189259	CYL ASSY, U/C 440A-53		*			
	189261	CYL ASSY, U/C 440A-48/455A-50CA			*		
	189262	CYL ASSY, U/C 440A-41				*	
	189267	CYL ASSY, U/C 455-48/50CA					*
1	1-510-010003-09	NUT, FLG HD, SERR 1/2-13 UNC	16	16	16	16	16
2	1-654-010055-02	SCREW, HEX 1/2-13 UNC X 1-1/4 GR5	4	4	4	4	4
3	1-654-010061-03	SCREW, HEX 3/4-10 UNC X 1-1/2 GR5	6	6	6	6	6
4	1-861-010032-15	WASHER, FLAT ZP/CD, 1/2W	8	8	8	8	8
5	103841	NUT, FLG PREVAILING TRQ, 3/4-10	6	6	6	6	6
6	117386	NYLATRON SLIDE, U/C CYL 425	2	2	2	2	2
7	118627	SCREW, HXSKT CTSK, 1/2-13 X 3	12	12	12	12	12
8	122621	BRACKET, WLDMT CYL MT 410	2	2	2	2	2
9	142050	SADDLE, WLDMT U/C CYL TRUN	2	2	2	2	2
10	142053	MOUNT, WLDMT CYL TRUN 400	1	1	1	1	1
11	186834	CYLINDER, 4 X 138 HI FLOW (SEE PAGE 1-20)	1	1	--	--	--
11	189264	CYLINDER, 4 X 100 HI FLOW (SEE PAGE 1-20)	--	--	--	1	--
11	189265	CYLINDER, 4 X 126 HI FLOW (SEE PAGE 1-20)	--	--	1	--	1
12	186835	CYLINDER, 4 X 126 PORTED ROD HI FLOW (SEE PAGE 1-21)	1	--	1	--	--
12	189263	CYLINDER, 4 X 100 PORTED ROD HI FLOW (SEE PAGE 1-21)	--	--	--	1	1
12	189266	CYLINDER, 4 X 138 PORTED ROD HI FLOW (SEE PAGE 1-21)	--	1	--	--	--
13	189304	HOSE ASSY, 1/2 X 24, SAE 37 STR-STR	1	1	--	2	1
13	189305	HOSE ASSY, 1/2 X 36, #10 - #12 JIC	--	--	2	--	--
14	189306	HOSE ASSY, 5/8 X 39, #10 - #12 JIC	--	--	--	--	1
14	189307	HOSE ASSY, 5/8 X 48, #10 - #12 JIC	1	1	--	--	--
15	189302	ADAPTER, 90 #8 O-RING, #10 TUBE	4	4	4	4	4

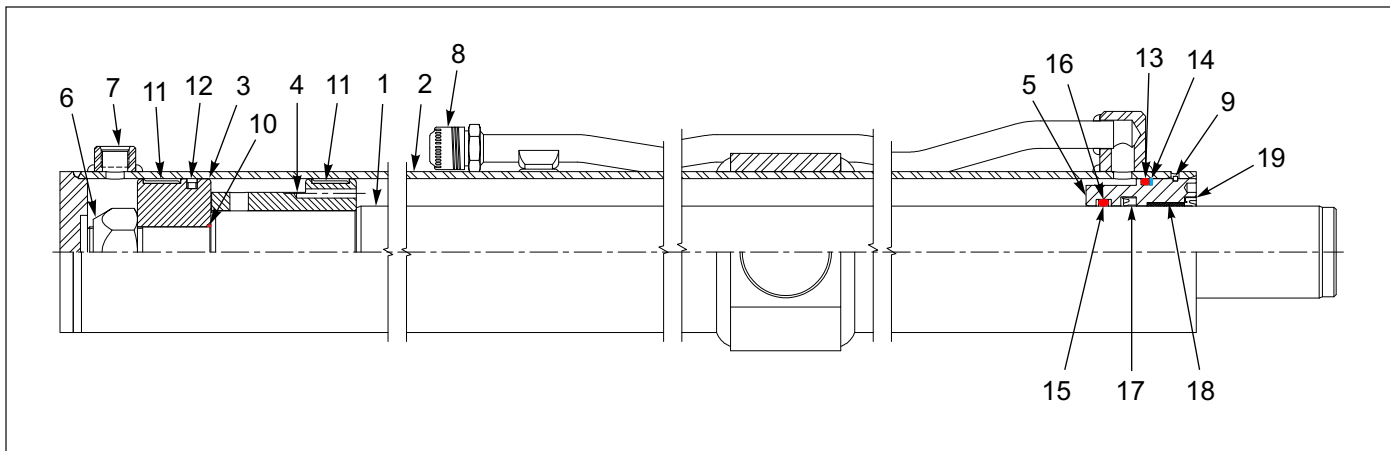


Figure 1-12: Cylinder Assembly - Hi Flow

Cylinder Assembly - Hi Flow

ITEM	PART NO.	DESCRIPTION	QTY.		
	189264	CYLINDER, HI FLOW, 4 X 100	*		
	189265	CYLINDER, HI FLOW, 4 X 126	*		
	186834	CYLINDER, HI FLOW, 4 X 138	*		
1	----	PISTON ROD	1	--	--
1	----	PISTON ROD	--	1	--
2	----	BUTT & TUBE ASSEMBLY	1	--	--
2	----	BUTT & TUBE ASSEMBLY	--	1	--
3	----	PISTON	1	1	1
4	----	PISTON	1	1	1
5	----	GLAND	1	1	1
6	----	LOCKNUT	1	1	1
7	----	SHIPPING PLUG	1	1	1
8	----	JIC CAP	1	1	1
9	201631	SQ RETAINING RING	1	1	1
10	201631	O-RING	1	1	1
11	201631	BEARING RING	2	2	2
12	201631	TEFLON SEAL ASSEMBLY	1	1	1
13	201631	O-RING	1	1	1
14	201631	BU-WASHER	1	1	1
15	201631	O-RING	1	1	1
16	201631	BU-WASHER	2	2	2
17	201631	U-CUP	1	1	1
18	----	DX BUSHING	1	1	1
19	201631	WIPER	1	1	1
20	201631	INSTALLATION RING	1	1	1
21	201631	PACKING KIT (ITEMS 9-17, 19 & 20, PRINCE CYL)	1		
22	201631	PACKING KIT (ITEMS 9-17, 19 & 20, PRINCE CYL)		1	
23	201631	PACKING KIT (ITEMS 9-17, 19 & 20, PRINCE CYL)			1

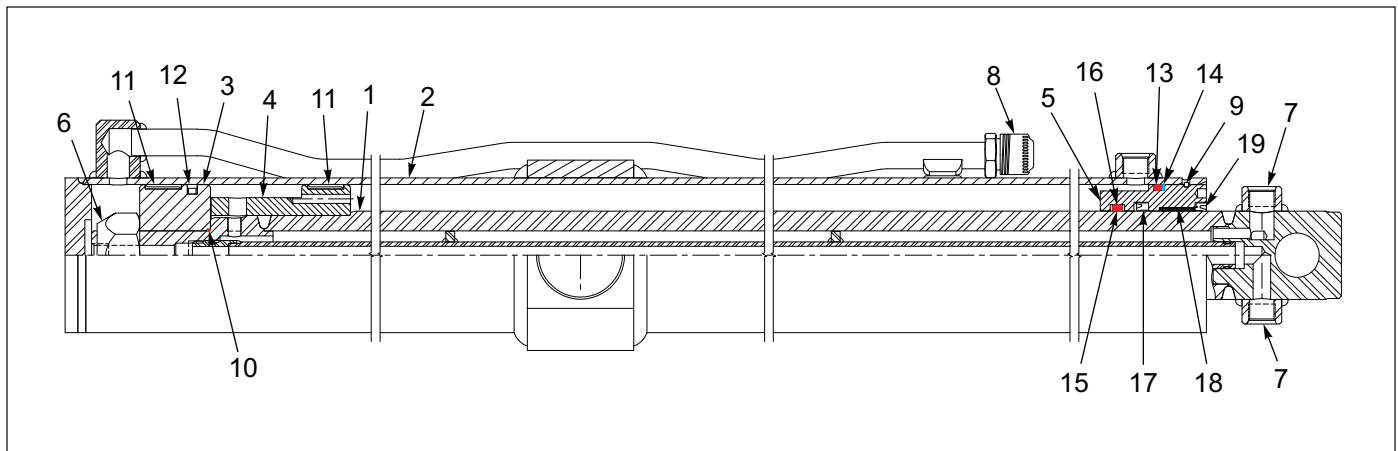


Figure 1-13: Cylinder Assembly - Ported Rod Hi Flow

Cylinder Assembly - Ported Rod Hi Flow

ITEM	PART NO.	DESCRIPTION	QTY.		
	189263	CYLINDER, PORTED ROD HI FLOW, 4 X 100	*		
	186835	CYLINDER, PORTED ROD HI FLOW, 4 X 126	*		
	189266	CYLINDER, PORTED ROD HI FLOW, 4 X 138	*		
1	----	PISTON TUBE ASSEMBLY	1	--	--
1	----	PISTON TUBE ASSEMBLY	--	1	--
2	----	BUTT & TUBE ASSEMBLY	--	1	--
2	----	BUTT & TUBE ASSEMBLY	--	--	1
3	----	PISTON	1	1	1
4	----	PISTON	1	1	1
5	----	GLAND	1	1	1
6	----	LOCKNUT	1	1	1
7	----	SHIPPING PLUG	3	3	3
8	----	JIC CAP	1	1	1
9	201631	SQ RETAINING RING	1	1	1
10	201631	O-RING	1	1	1
11	201631	BEARING RING	2	2	2
12	201631	TEFLON SEAL ASSEMBLY	1	1	1
13	201631	O-RING	1	1	1
14	201631	BU-WASHER	1	1	1
15	201631	O-RING	1	1	1
16	201631	BU-WASHER	2	2	2
17	201631	U-CUP	1	1	1
18	----	DX BUSHING	1	1	1
19	201631	WIPER	1	1	1
20	201631	INSTALLATION RING	1	1	1
21	201631	PACKING KIT (ITEMS 9-17, 19 & 20)	1		
22	201631	PACKING KIT (ITEMS 9-17, 19 & 20)		1	
23	201631	PACKING KIT (ITEMS 9-17, 19 & 20)			1

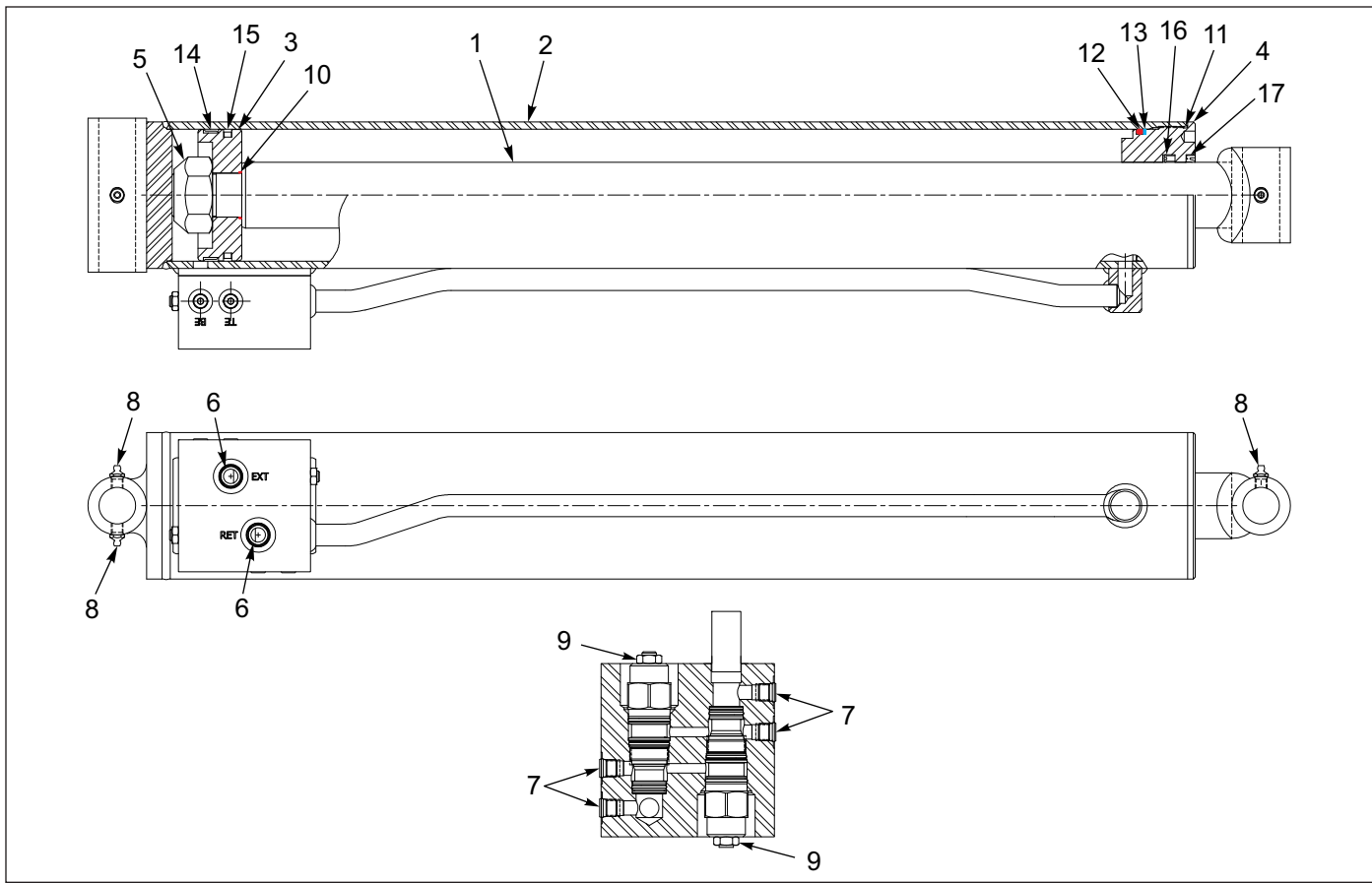


Figure 1-14: Cylinder - 4-1/2 X 30

Cylinder - 4-1/2 X 30

ITEM	PART NO.	DESCRIPTION	QTY.
	195308	CYLINDER, 4-1/2 X 30, 30 STROKE, CB	
1	----	PISTON ROD ASSEMBLY	1
2	----	BUTT & TUBE ASSEMBLY	1
3	----	PISTON	1
4	----	GLAND	1
5	----	LOCKNUT	1
6	----	SHIPPING PLUG	2
7	----	ZERO LEAK PLUG	4
8	----	GREASE ZERK	3
9	197587	COUNTERBALANCE VALVE	1
10	201632	O-RING	1
11	201632	O-RING	1
12	201632	O-RING	1
13	201632	BU-WASHER	1
14	201632	BEARING RING	1
15	201632	TEFLON SEAL ASSY	1
16	201632	U-CUP	1
17	201632	WIPER	1
18	201632	PACKING KIT (ITEMS 10-17, NOT SHOWN)	1

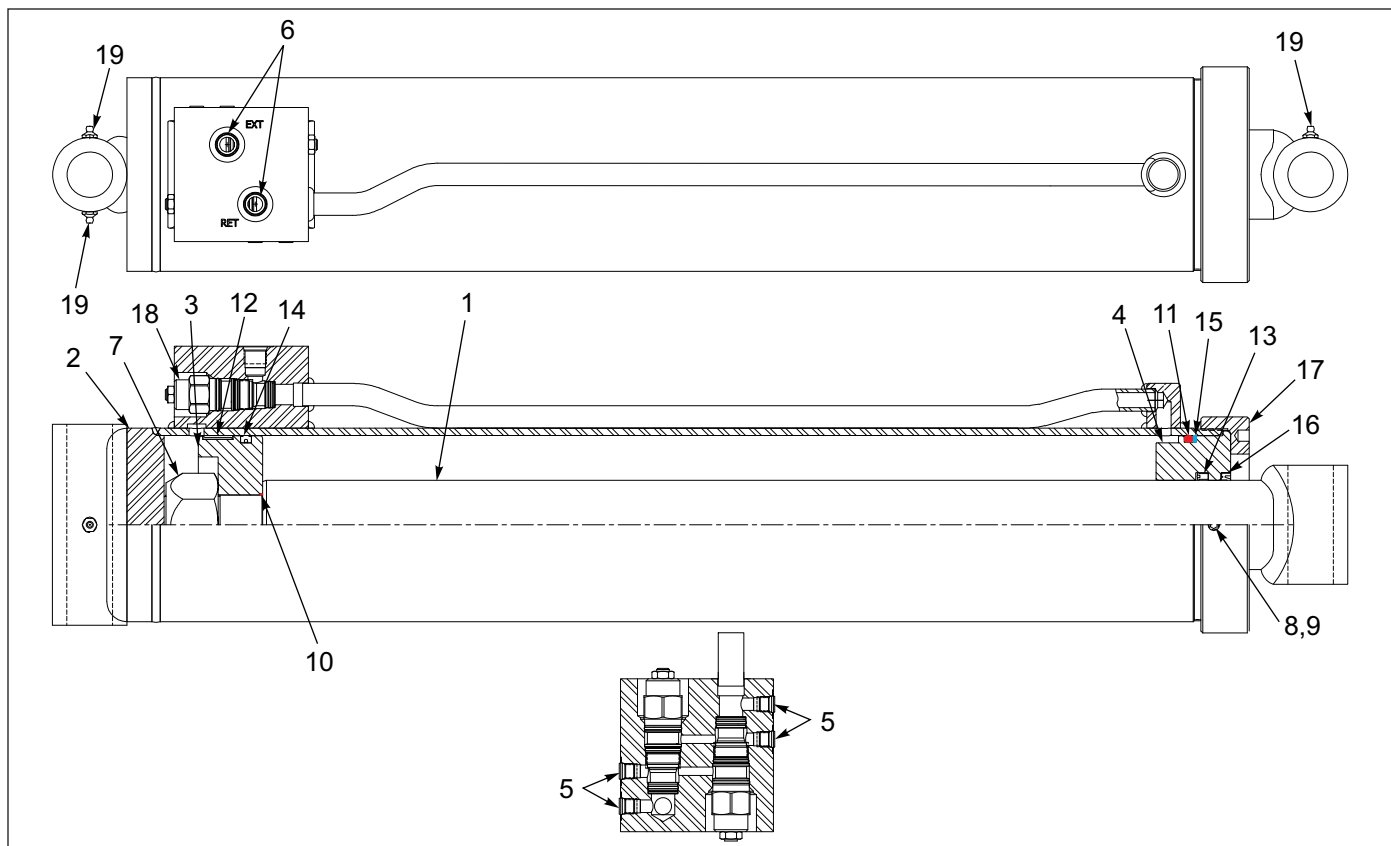


Figure 1-15: Cylinder - 6 X 30

Cylinder - 6 X 30

ITEM	PART NO.	DESCRIPTION	QTY.
	186807	CYLINDER, 6 X 41, 30 STROKE, CB	
1	----	PISTON ROD ASSEMBLY	1
2	----	BUTT & TUBE ASSEMBLY	1
3	----	PISTON	1
4	----	GLAND	1
5	----	ZERO LEAK PLUG	4
6	----	SHIPPING PLUG	1
7	----	LOCKNUT	1
8	----	FLAT POINT SET SCREW	1
9	----	NYLON LOCK	1
10	201633	O-RING	1
11	201633	O-RING	1
12	201633	PISTON BEARING RING	1
13	201633	SYMMETRICAL U-CUP	1
14	201633	CROWN SEAL	1
15	201633	STATIC BU-WASHER	1
16	201633	CANNED WIPER	1
17	----	GLAND CAP	1
18	197587	COUNTERBALANCE VALVE	2
19	----	GREASE ZERK	3
20	201633	PACKING KIT (ITEMS 10-16)	1

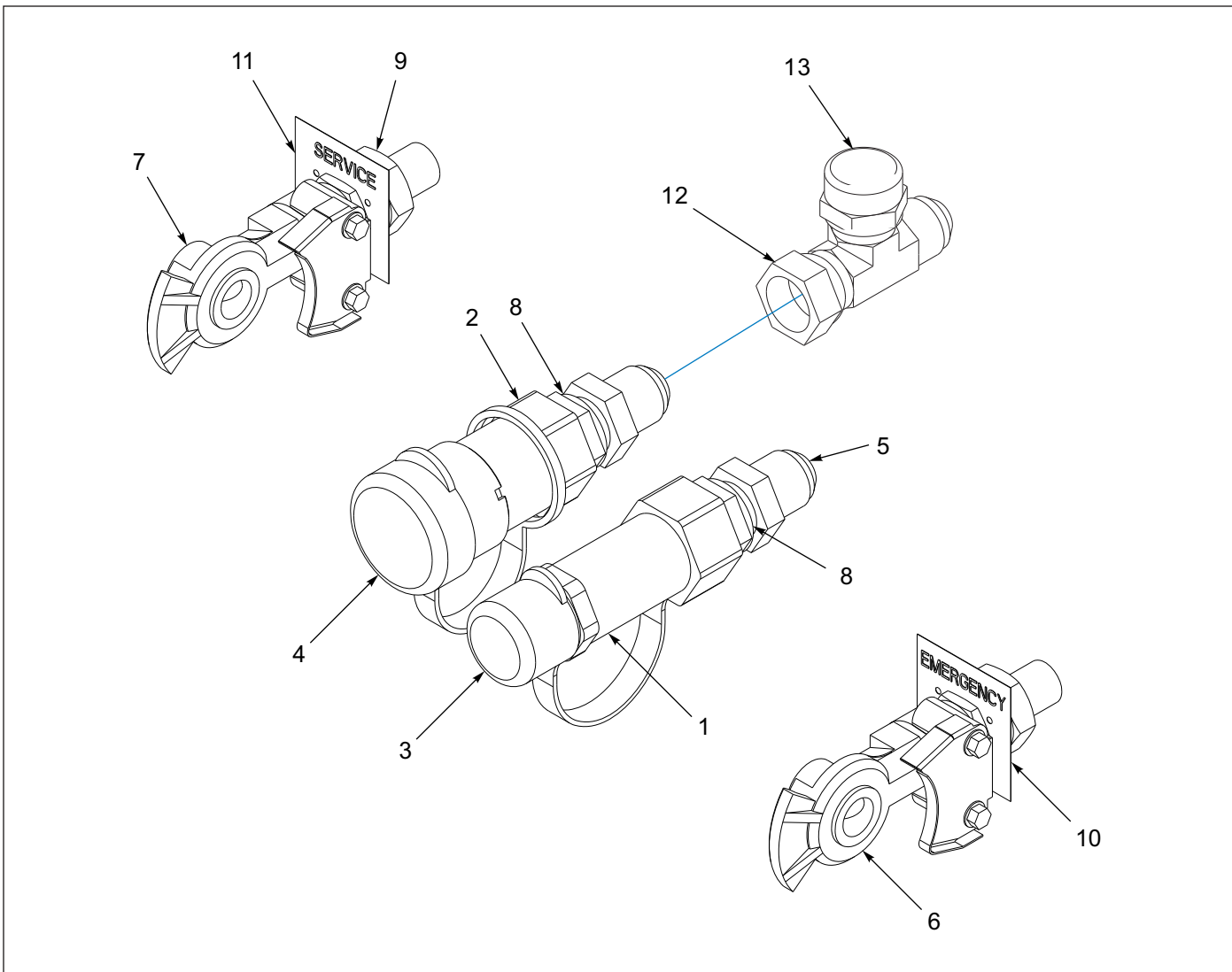


Figure 1-16: Connectors - Front Sub Assembly

Connectors - Front Sub Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	143163	CONNECTOR ASSY, FRONT SUB	REF
1	105479	COUPLER, FLAT FACE MALE	1
2	105480	COUPLER, FLAT FACE FEMALE	1
3	105481	COUPLER, DUST CAP MALE	1
4	105482	COUPLER, DUST CAP FEMALE	1
5	105483	ADAPTER, BULKHEAD 12JIC-12ORING	2
6	108801	GLADHAND, RED AIR	1
7	108802	GLADHAND, BLUE AIR	1
8	169365	SPACER, HYDRAULIC COUPLER	2
9	55B61	FRAME UNION	2
10	55B61-6	TAG EMERGENCY LINE	1
11	55B61-7	TAG SERVICE LINE	1
12	203102-12-12S	ADAPTER, TEE, #12, SAE 37, SWIVL	1
13	210292-12S	HYD FITTING CAPNUT, .75	1

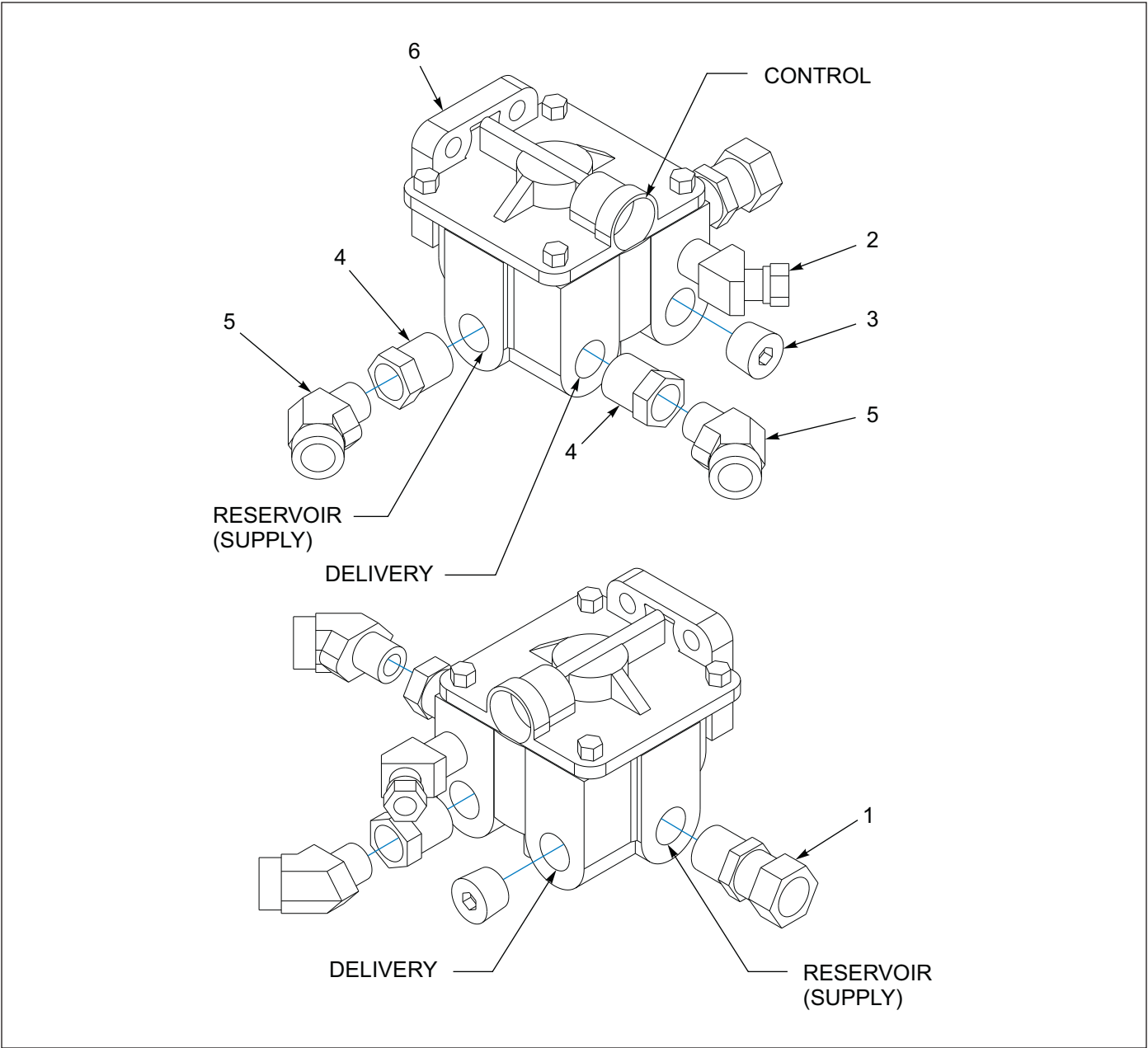


Figure 1-17: Valve Assembly - Air Booster

Valve Assembly - Air Booster

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

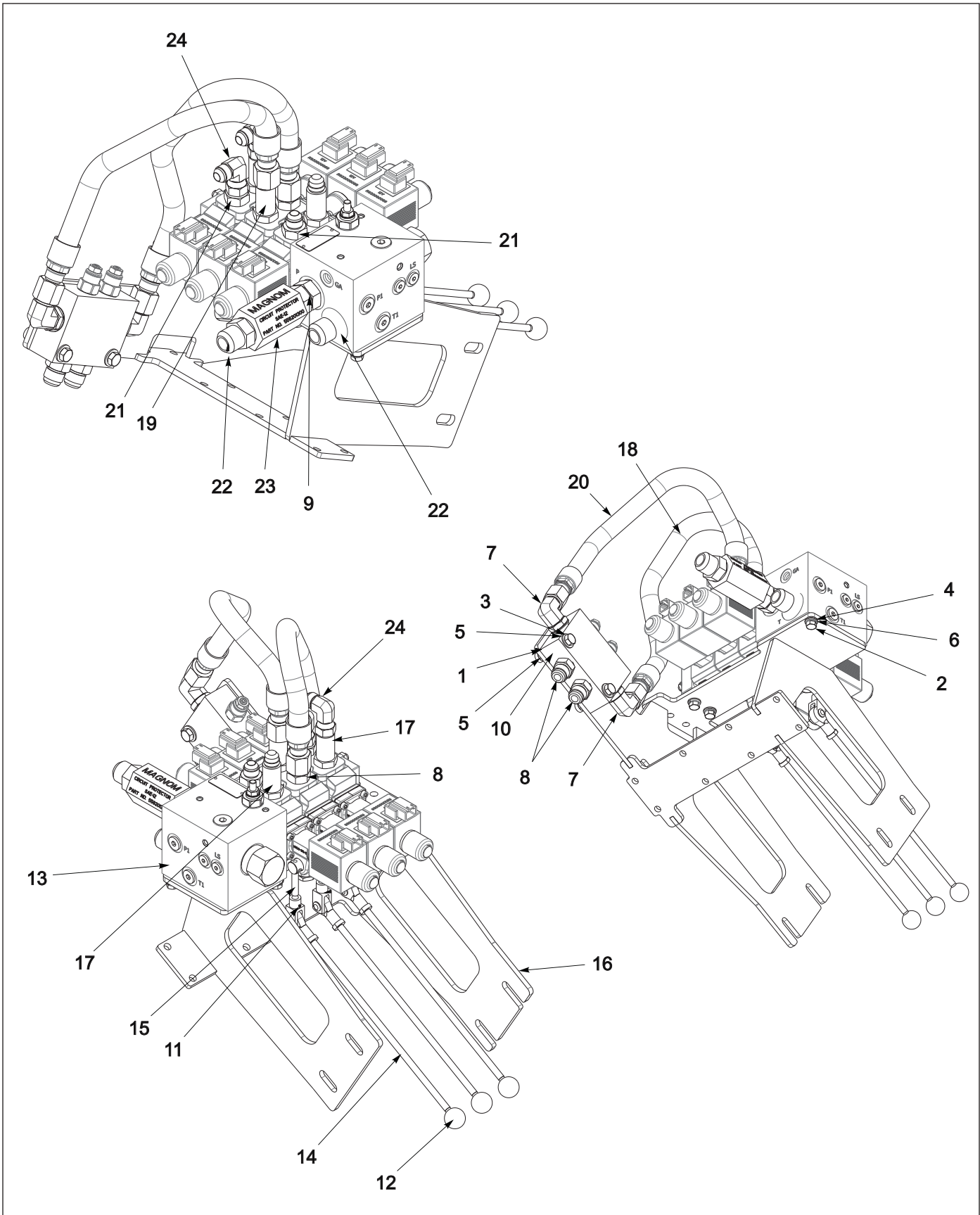


Figure 1-18: Valve Assembly - Three Spool

Valve Assembly - Three Spool

ITEM	PART NO.	DESCRIPTION	QTY.
	186886	VALVE ASSY, 3 SPOOL, 35 GPM SOLENOID	
1	1-512-010005-05	NUT, HEX SLFLKG, 3/8-16 UNC, GRB	2
2	1-654-010049-03	SCREW, HEX 5/16-18 UNC X 3/4 GR5	4
3	1-654-010051-10	SCREW, HEX 3/8-16 UNC X 2-1/4 GR5	2
4	1-861-010032-08	WASHER, FLAT ZP/CD, 5/16N	4
5	1-861-010032-10	WASHER, FLAT ZP/CD, 3/8N	4
6	1-861-010034-10	WASHER, LKG, HLCL SPR, 5/16	
7	124511	ADAPTER, 90 #10 O-RING TO #10 JIC	2
8	137486	ADAPTER, #10 O-RING TO #10 JIC	3
9	158581	ADAPTER ST #12 ORB - #12 ORB	1
10	184585	VALVE, DUAL COUNTERBALANCE, 30 GPM	1
11	186875	CLEVIS JOINT, ROD ENDS M8X1.25	3
12	186877	KNOB, 1 IN ROUND, M8X1.25 THD	3
13	186885	VALVE, 3 SPOOL, SOLENOID, 35 GPM	1
14	191849	HANDLE ASSY, RED KNOB	1
14	191850	HANDLE ASSY, BLACK KNOB	2
15	186902	STUD M8X1.25X65MM, DBLE THD	3
16	189256	WLDMT, CONTROL VALVE MOUNT	1
17	189285	ADAPTER STR LONG #10ORB #8MJIC	2
18	189299	HOSE ASSY 5/8X19 SAE 37 #10 STR	1
19	189301	ADAPTER STR LONG #10ORB #10MJIC	1
20	196784	HOSE ASSY 5/8X21 SAE 37 #10 STR	1
21	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
22	202702-12-12S	ADAPTER, #10 O-RING #12 TUBE	2
23	204124	FILTER HYD IN-LINE MAGNETIC SAE#12	1
24	2071-8-8S	ADAPTER, 90 #8 FLR SWIVEL, #8 JIC	2

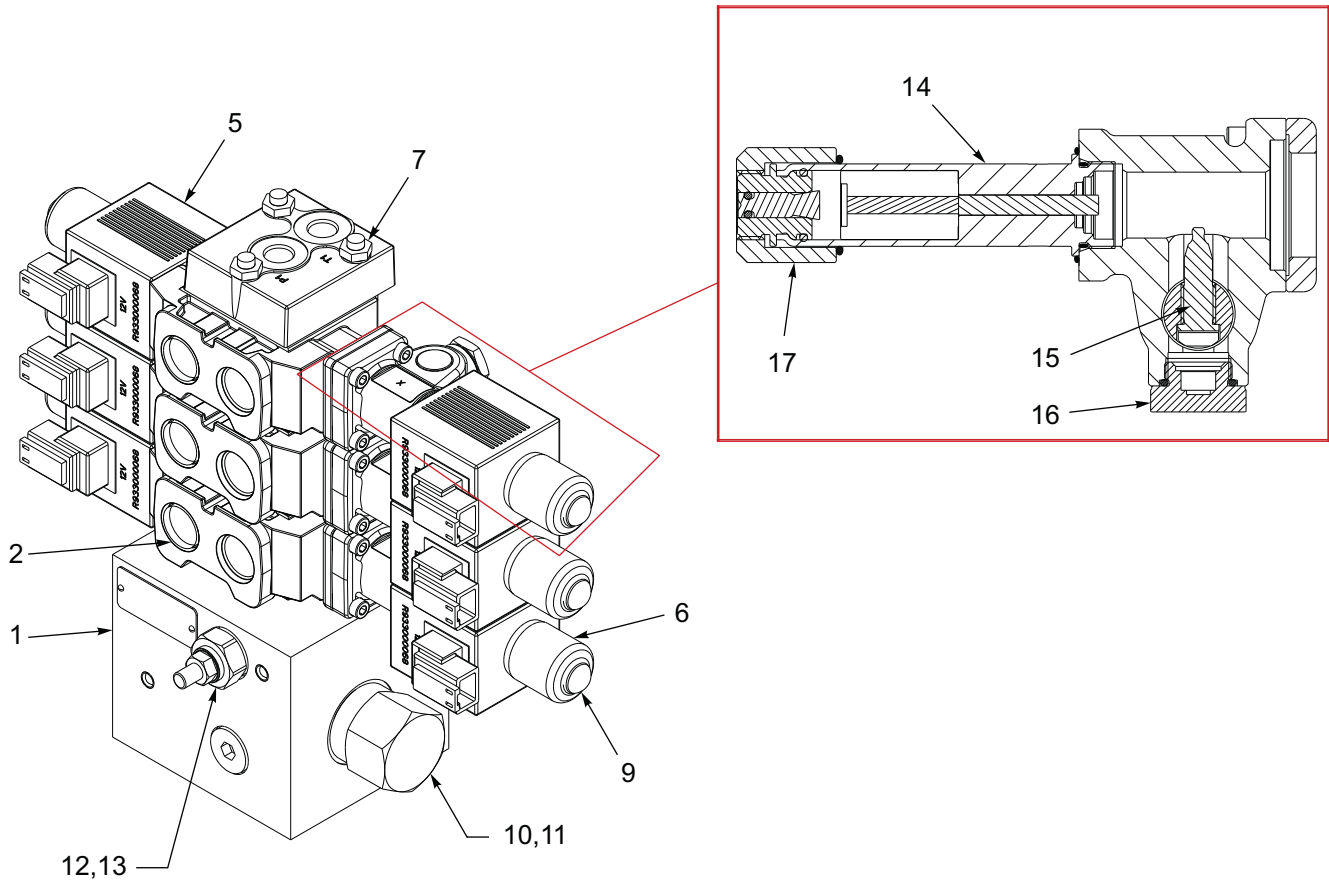


Figure 1-19: Three Spool Solenoid Valve

Three Spool Solenoid Valve

ITEM	PART NO.	DESCRIPTION	QTY.
	186885	VALVE, 3 SPOOL, SOLENOID, 35 GPM	
1	191847	INLET SECTION KIT	1
2	191848	VALVE SECTION KIT	3
3	191849	HANDLE ASSY (NOT SHOWN)	1
4	191850	HANDLE ASSY (NOT SHOWN)	2
5	193400	COIL	6
6	193401	RUBBER BOOT	6
7	193402	BOLT KIT	1
8	193442	VALVE SECTION SEAL KIT (NOT SHOWN)	4
9	193443	COIL NUT SEAL KIT	1
10	193444	BY-PASS COMENSATOR	1
11	193445	SEAL KIT FOR COMPENSATOR	1
12	193446	LOAD SENSE RELIEF	1
13	193447	LOAD SENSE RELIEF SEAL KIT	1
14	208390	KIT COMPLETE LEVER BOX, K-22144	1
15	204189	SET SCREW HANDLE ACTUATOR BALL	6
16	208391	PLUG	6
17	208392	COIL NUT LEVER BOX	6

Electrical

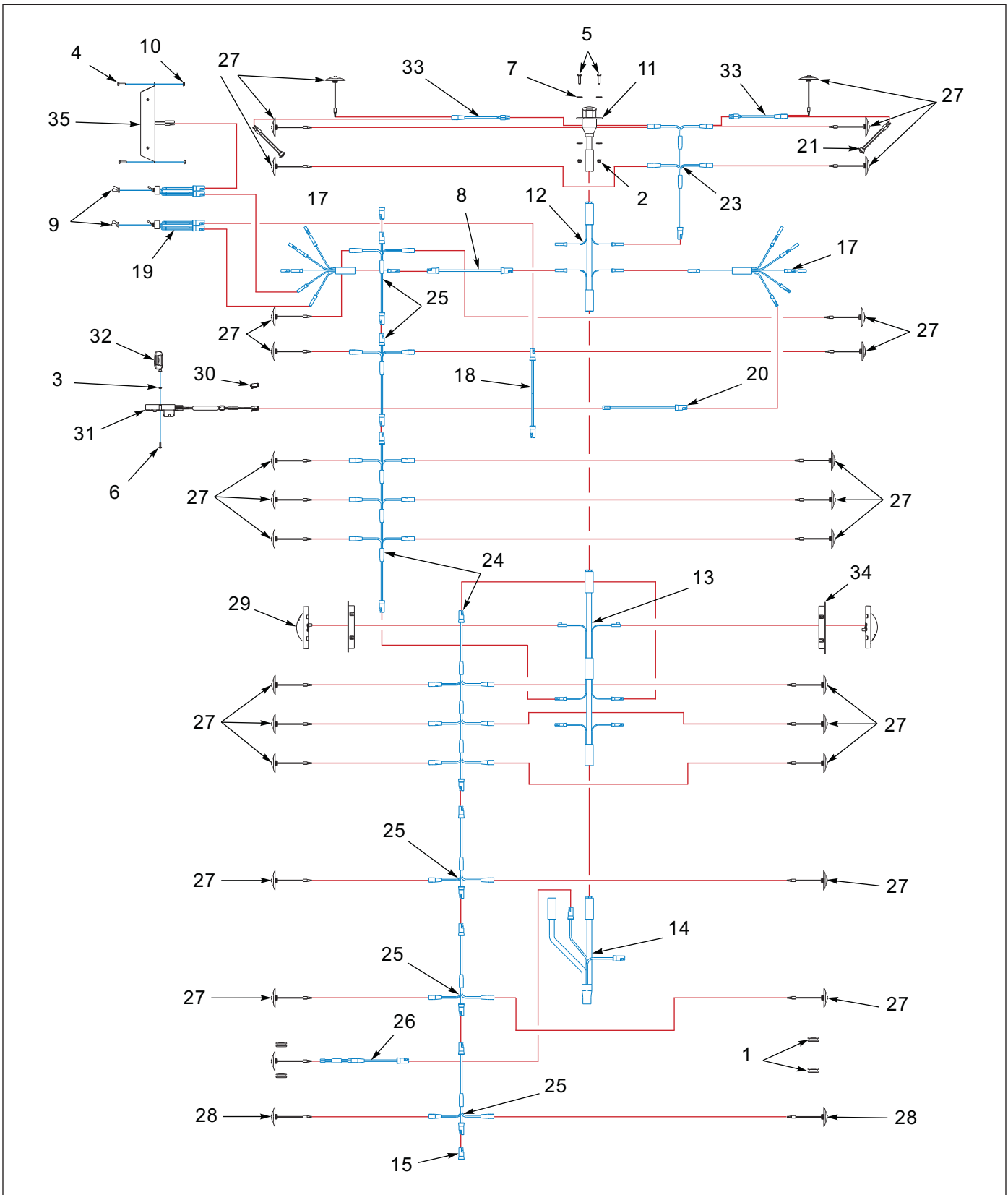


Figure 1-20: Electrical System, Frame (1 of 2)

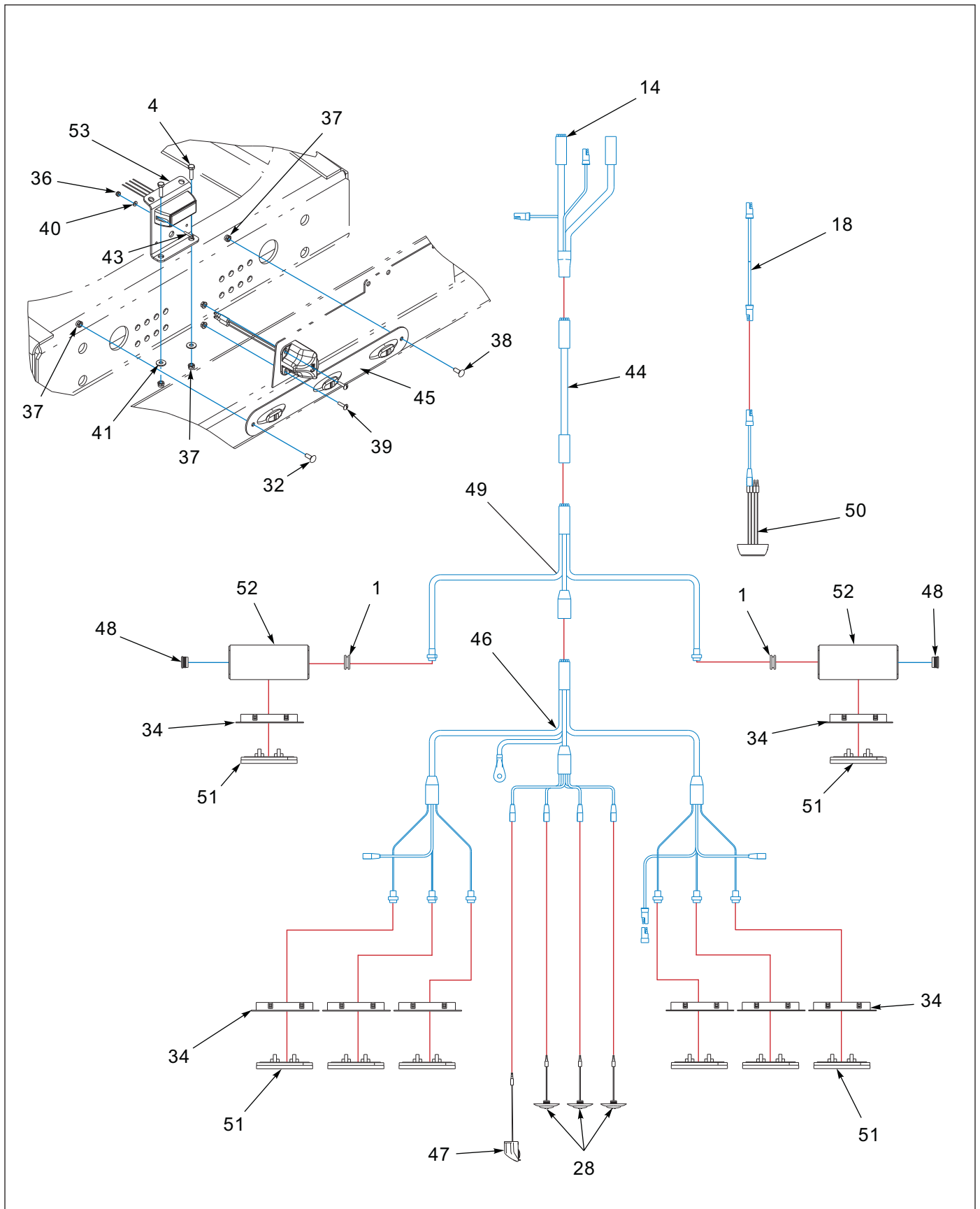


Figure 1-21: Electrical System, Bumper (2 of 2)

Electrical System

ITEM	PART NO.	DESCRIPTION	QTY			
	212396	HYD ELE AIR 440B REMOTE	*			
	212397	HYD ELE AIR 440B NO REMOTE	*			
	214442	HYD ELE AIR 455B REMOTE	*			
	214443	HYD ELE AIR 455B NO REMOTE	*			
1	1-343-010006	GROMMET, 7/8 ID X 1/4 GW X 1-1/4	4	4	4	4
2	1-512-010005-03	NUT, HEX SLFLKG, 5/16-18 UNC, GRB	2	2	2	2
3	1-512-010007-03	NUT, HEX #10-24 UNC, GR2	2	--	2	--
4	1-654-010047-06	SCREW, HEX 1/4-20 UNC X 1 GR5	2	2	2	2
5	1-654-010049-06	SCREW, HEX 5/16-18 UNC X 1-1/4 GR5	2	2	2	2
6	1-656-010003051	SCREW, RDH HD MACH, #10-24 X 3/4	4	--	4	--
7	1-861-010032-09	WASHER, FLAT ZP/CD, 5/16W	4	4	4	4
8	3-368-010252	HARNESS ASSY, BKHD LIGHT EXT	1	1	1	1
9	81264	RUBBER BOOT FOR ELECT SWITCH	2	2	2	2
10	108417	NUT, SPIRALOCK 1/4-20 HEX FLANGE	2	2	2	2
11	143100	HARNESS, 7 WAY RECEPTACLE	1	1	1	1
12	143101	HARNESS, FRONT MAIN GROTE	1	1	1	1
13	143102	HARNESS, BED MAIN GROTE	1	1	1	1
14	143103	HARNESS, E-CHAIN GROTE	REF	REF	REF	REF
15	143121	DUMMY PLUG, MALE/FEMALE BULLET	REF	REF	REF	REF
16	143123	DIELECTRIC GREASE	REF	REF	REF	REF
17	150093	HARNESS, 5 AUX BRANCHES GROTE	2	1	2	1
18	150111	HARNESS, 300 IN. MALE/FEMALE BULLET	1	1	1	1
19	150117	TOGGLE SWITCH, SEALED, S.P.S.T	2	2	2	2
20	164052	HARNESS, 60 IN. BRANCH WORK LIGHT	1	--	1	--
21	183413	LIGHT WHT LED .75 CL/MK GROTE	2	2	2	2
22	187833	CLIP, HARNESS, CROSSMEMBER	100	100	100	100
23	187855	HARNESS MARKER, UPR DECK	1	1	1	1
24	187856	HARNESS MARKER, MID DECK	2	2	2	2
25	187857	HARNESS MARKER, ADDITION	REF	REF	REF	REF
26	187858	HARNESS, ABS LAMP MICRONOVA	1	1	1	1
27	213297	LIGHT, YEL LED,.75CL/MK CLEAR CB	REF	REF	REF	REF
28	213298	LIGHT, RED LED,.75CL/MK CLEAR CB	REF	REF	REF	REF
29	187868	LIGHT, MID TURN LED, CLEAR LENS	2	2	2	2
30	194407	PLUG ASSEMBLY, DUMMY, DEUTSCH	--	6	--	6
31	209100	REMOTE, BRAND 6 FUNCTION SLIDE	1	--	1	--
32	212074	NUT, FLG HD, SERR 10-24 UNC	2	--	2	--
33	213290	HARNESS, MARKER LAMP MICRONOVA	2	2	2	2
34	213296	FLANGE CHROME FLAT OBLONG	2	2	2	2
35	213304	LIGHT ASSEMBLY, CONTROL PANEL	1	1	1	1
36	1-512-010003-02	NUT, HEX, SLFLKG W/NYL #6-32	2	2	2	2
37	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC, GRB	4	4	4	4
38	1-654-010158-1	SCREW, RDH, SQ NCK, 1/4-20X3/4	2	2	2	2
39	1-861-010032-01	WASHER, FLAT, ZP/CD, #6	2	2	2	2
40	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	2	2	2	2
41	43029	HOSE WRAP	3	3	3	3
42	122187	SCEW, MACH, SLOT FILL, 6-32X3/4	2	2	2	2
43	143166	HARNESS EXT, 48 IN. GROTE	REF	REF	REF	REF
44	179906	PLATE, MTG MICRO ID LIGHTS	1	1	1	1
45	187859	HARNESS BUMPER MICRONOVA GROTE	1	1	1	1

Electrical System

ITEM	PART NO.	DESCRIPTION	QTY			
46	187860	LIGHT ASSEMBLY LICENSE LED GROTE	1	1	1	1
47	203247	PLUG, PLASTIC PANEL 1-3/16 & 1-1/4	REF	REF	REF	REF
48	213287	HARNESS MUD FLAP S/T/TL LIGHTS	1	1	1	1
49	213294	STROBE ASSEMBLY LIGHT W/ 12 IN. HARNESS	1	1	1	1
50	213295	LIGHT S/T/T RED CLEAR LENS	8	8	8	8
51	213305	BRACKET U/C CENTER STROBE MTG	1	1	1	1
52	216230	MOUNT WLDMT MUD FLAP S/T/T	2	2	2	2
53	116324	PLUG PLASTIC PANEL	2	2	4	4
54	216248	GUARD HARNESS MUD FLAP S/T/T	--	--	2	2
55	1-654-010158-02	SCREW RHD SQ NCK 1/4-20UNCX1	--	--	8	8
56	108417	NUT SPIRAL	--	--	8	8
57	216259	SPACER NYLON 3/8X7/16	--	--	8	8

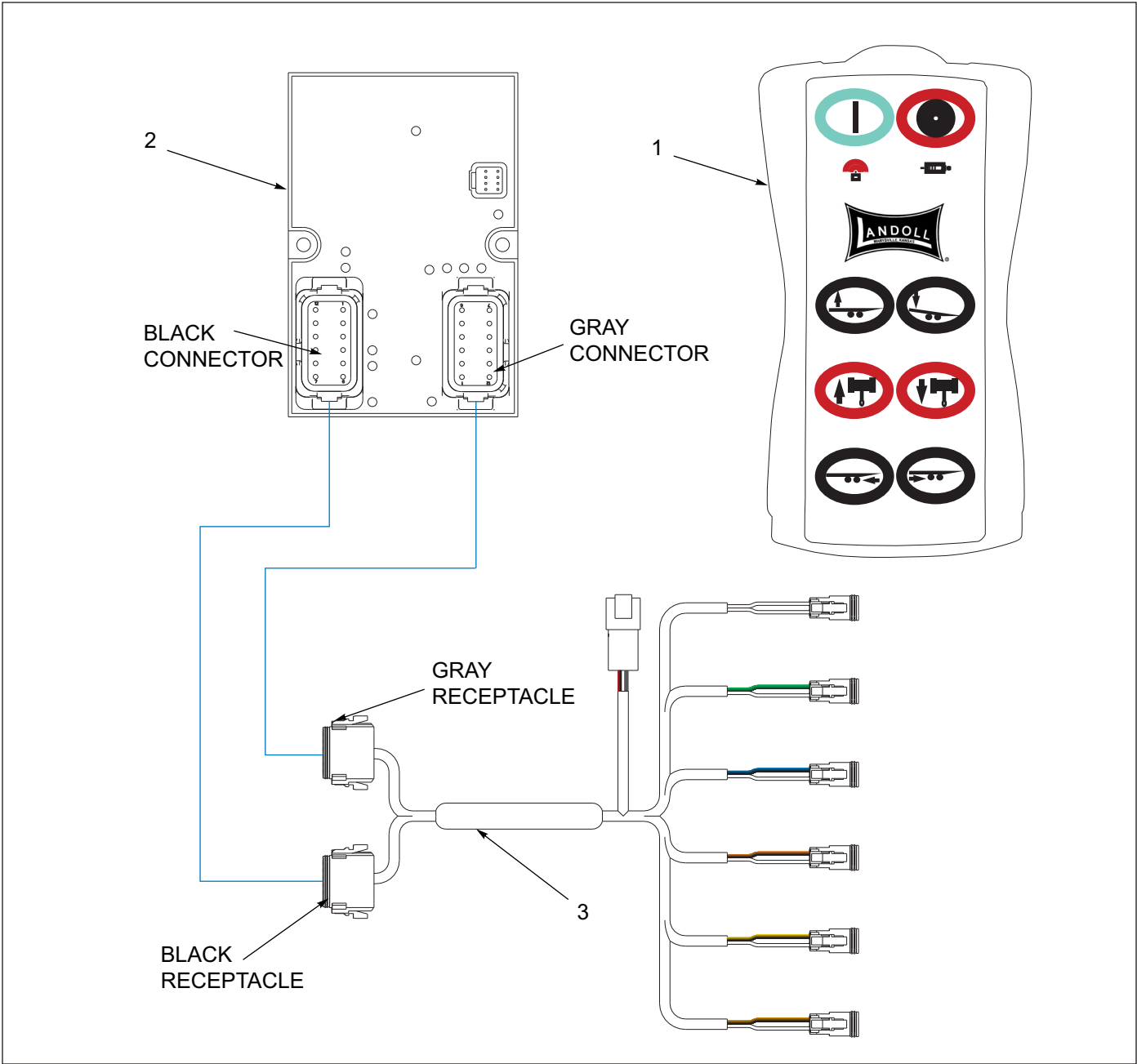


Figure 1-22: Remote

Remote Components

ITEM	PART NO.	DESCRIPTION	QTY.
	209100	REMOTE, BRAND, 6-FUNCTION SLIDE	
1	209101	TRANSMITTER	1
2	209102	RECEIVER	1
3	209103	HARNESS	1

Undercarriage

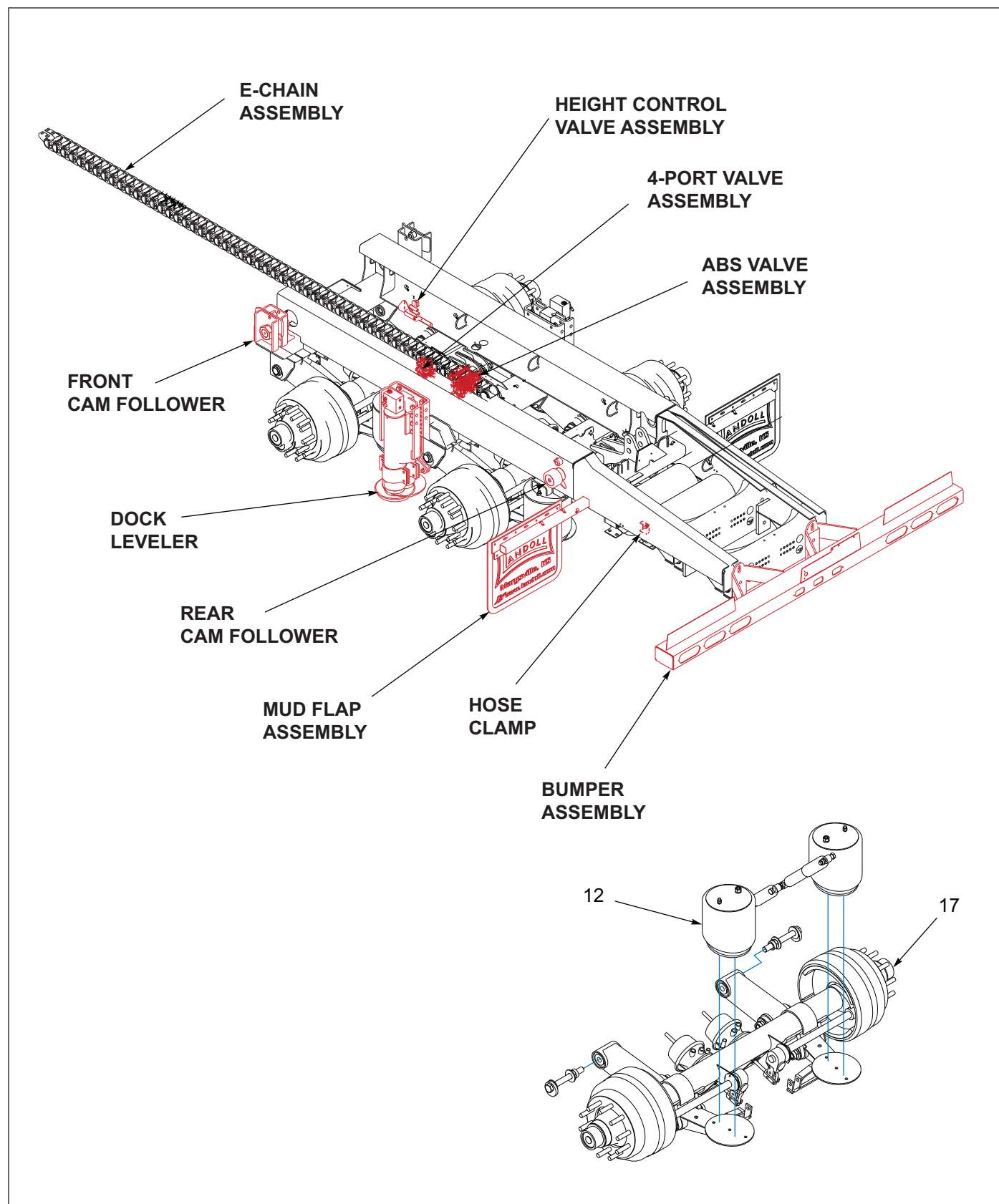
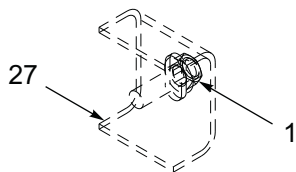
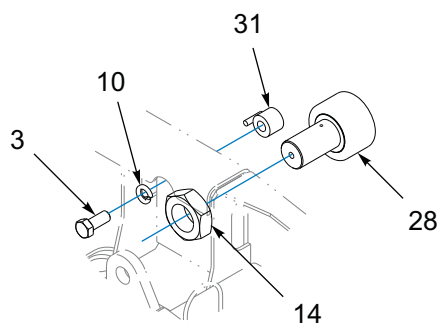
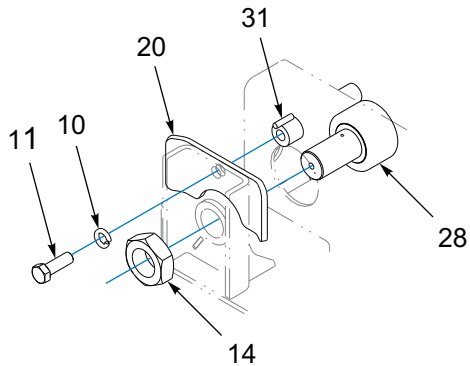
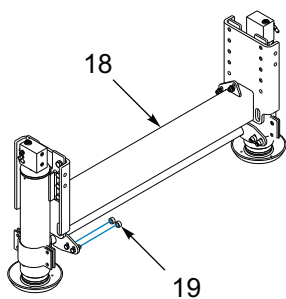
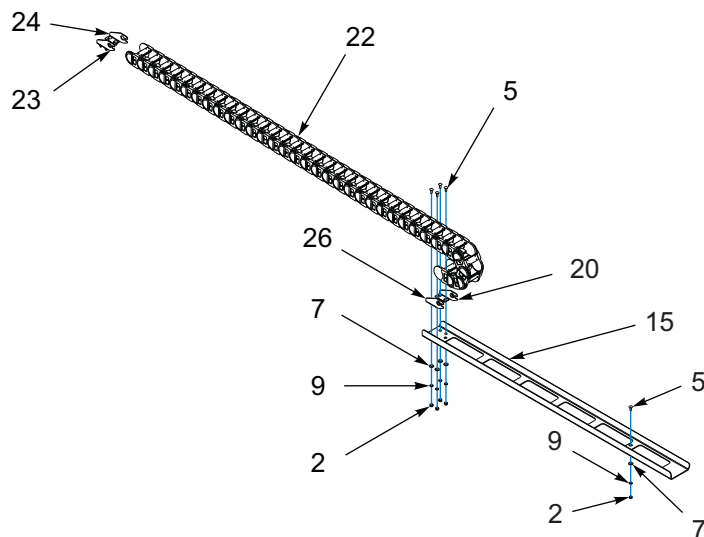
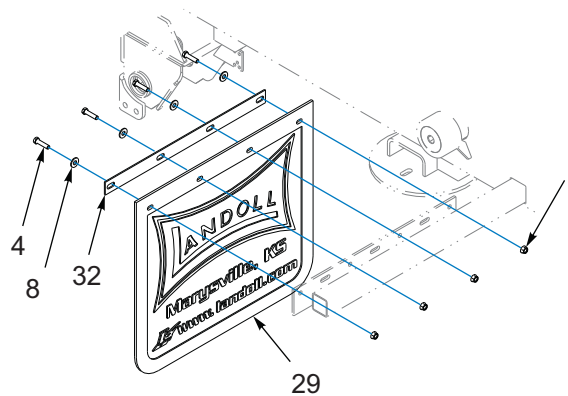
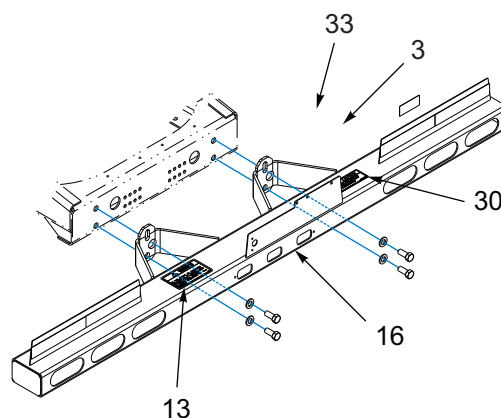


Figure 1-23: General Items - 440B (1 of 2)

**CLAMP ASSEMBLY****REAR CAM FOLLOWER ASSEMBLY****FRONT CAM FOLLOWER ASSEMBLY****DOCK LEVELER ASSEMBLY****E-CHAIN ASSEMBLY****MUDFLAP ASSEMBLY****BUMPER ASSEMBLY****Figure 1-24: General Items - 440B (2 of 2)**

General Items - 440B

ITEM	PART NO.	DESCRIPTION	QTY.			
	214413	SUSPENSION 440B 102 SB LED	*			
	214418	SUSPENSION 440B 108 BB 62K D/L		*		
	214422	SUSPENSION 440B-CA 102 SB LED			*	
	214425	SUSPENSION 440B-CA 102 BB 62K D/L				*
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	9	9	9	9
2	1-512-010007-05	NUT, HEX 1/4-20 GRB	10	10	10	10
3	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	6	6	6	6
4	1-654-010051-07	SCREW, HEX 3/8-16 X 1-1/2 GR5	8	8	8	8
5	1-654-010158-1	SCREW, RDH SQ NEK, 1/4-20 X 3/4	10	10	10	10
6	1-843-010014	VALVE EXTENSION, STEM (NOT SHOWN)	4	4	4	4
7	1-861-010032-07	WASHER, FLAT 1/4W	12	12	12	12
8	1-861-010032-11	WASHER, FLAT 3/8W	8	8	8	8
9	1-861-010034-09	WASHER, SPLIT LOCK 1/4	10	10	10	10
10	1-861-010034-17	WASHER, SPLIT LOCK 3/4	4	4	4	4
11	100941	SCREW, HEX HEAD CAP 3/4-10 X 2-1/4 GR8	2	2	2	2
12	102363	SUSP ADJ RLU-228-3.5 (SEE PAGE 1-56)	2	2	2	2
13	103056	DECAL, ENERGY BUMPER WARNING (SEE PAGE 1-3)	1	1	1	1
14	104034	NUT, HEX 2-12 UNF, GR2	4	4	4	4
15	118897	TRAY, E-CHAIN	1	1	1	1
16	119580	BUMPER WELDMENT 660 TUBE WE/P	1	1	1	1
17	121077	AXLE WELDMENT, 2512 SPG 70.5 X 36	2	2	2	2
18	121498	DOCK LEVELER ASSEMBLY (SEE PAGE 1-120)	--	--	1	1
19	124559	SPACER, D/L MOUNT	--	--	4	4
20	140829	PLATE, WEAR 435 U/C	2	2	2	2
21	130556	UNDERCARRIAGE WLDMT, 425/435	1	--	1	--
	130794	UNDERCARRIAGE WLDMT, 435-50CA	--	1	--	1
22	189318	SUPPORT E-CHAIN, 58 LINKS, 3838	1	1	1	1
23	190700ZP	BRACKET, E-CHAIN LH	1	1	1	1
24	190705ZP	BRACKET, E-CHAIN RH	1	1	1	1
25	190701	BRACKET WLDMT, E-CHAIN LH	1	1	1	1
26	190706	BRACKET WLDMT, E-CHAIN RH	1	1	1	1
27	2-181-010001	CLAMP	1	1	1	1
28	3-076-010005	CAM FOLLOWER, 4" DIA	4	4	4	4
29	3-485-010001	MUD FLAP, 21"	2	2	2	2
30	3-573-010031	DECAL, BUMPER (SEE PAGE 1-3)	1	1	1	1
31	3-762-010016	HOLD DOWN, U/C	4	4	4	4
32	3-762-010017	CLAMP, MUD FLAP	2	2	2	2
33	622-3511-008	WASHER, FLAT 3/4 MIL-CARB, FL SAE	4	4	4	4
34	213299	MOUNT WLDMT MUD FLAP S/T/T LIGHT	2	2	2	2
35	213333	PLUG CAP END (INSTALLED ON AXLES WITHOUT TIRE INFLATION OPTION)	REF	REF	REF	REF

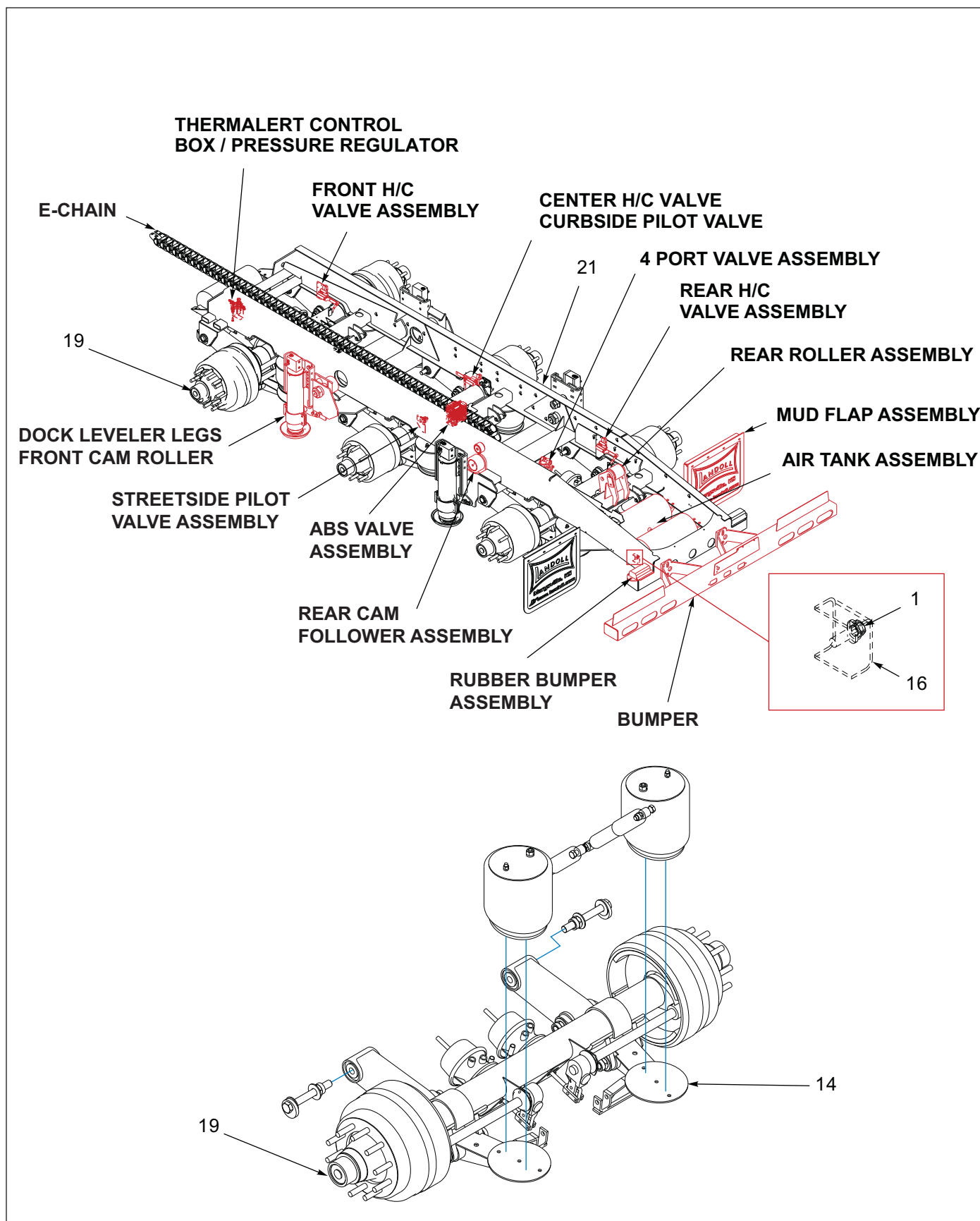
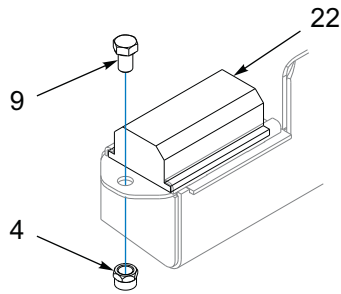
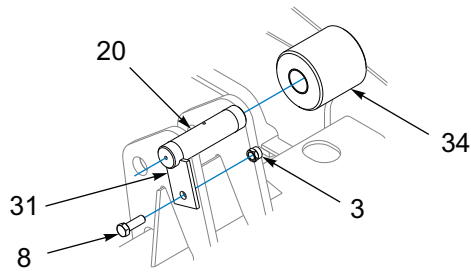


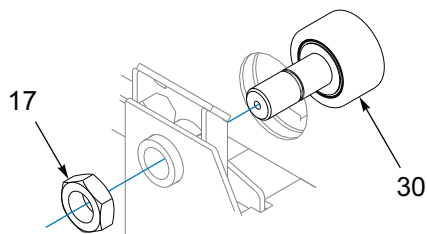
Figure 1-25: General Items - 455B Spring Brake (1 of 2)



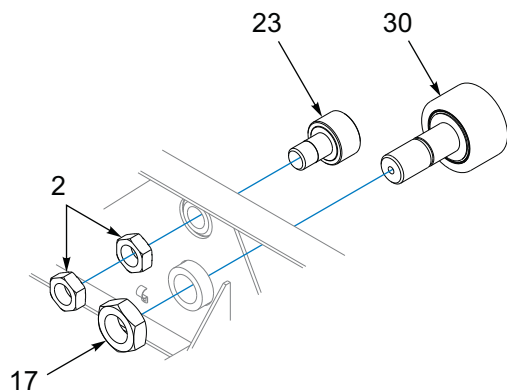
RUBBER BUMPER ASSEMBLY



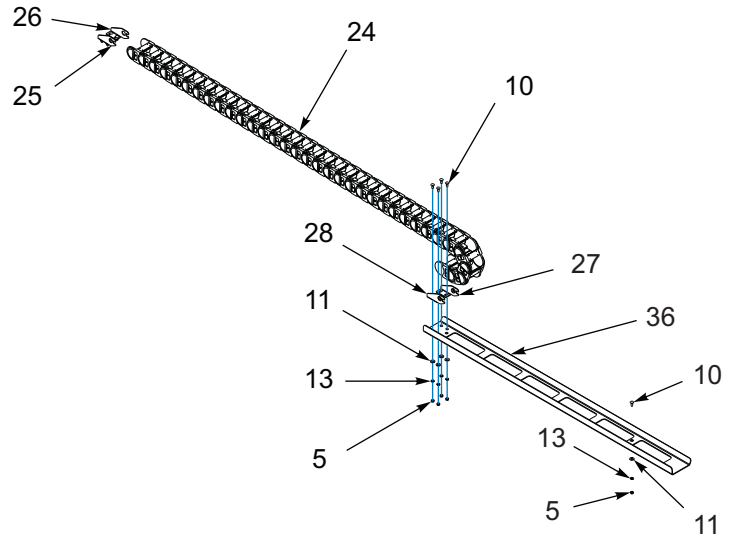
REAR ROLLER ASSEMBLY



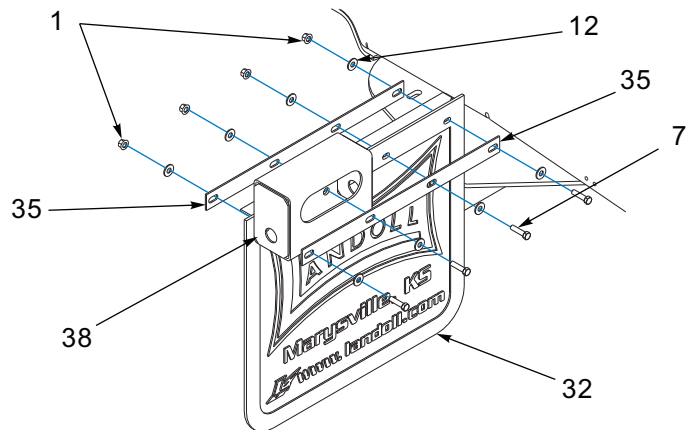
FRONT CAM FOLLOWER ASSEMBLY



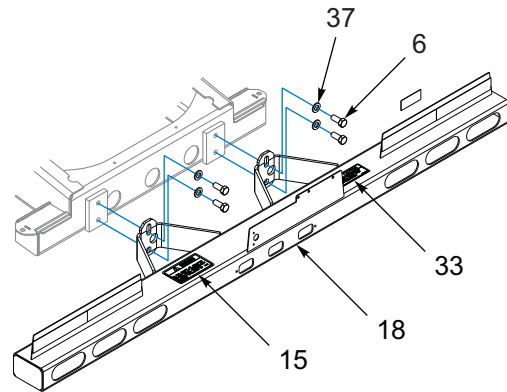
REAR CAM FOLLOWER ASSEMBLY



E-CHAIN ASSEMBLY



MUDFLAP ASSEMBLY



BUMPER ASSEMBLY

Figure 1-26: General Items - 455B (2 of 2)

General Items - 455B

ITEM	PART NO.	DESCRIPTION	QTY.		
	214468	SUSPENSION 455B STD 102 SB	*		
	214478	SUSPENSION 455B-CA 102 SB 62K D/L	*		
	214482	SUSPENSION 455B-CA 108 BB 62K D/L	*		
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	11	11	11
2	1-511-010001-14	NUT, HEX JAM, 1-1/2-12	4	4	4
3	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC, GRB	1	1	1
4	1-512-010005-13	NUT, HEX SLFLKG, 5/8-11 UNC, GRB	2	2	2
5	1-512-010007-05	NUT, HEX 1/4-20 UNC, GR2	11	11	11
6	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	4	4	4
7	1-654-010051-07	SCREW, HEX 3/8-16 X 1-1/2 GR5	8	8	8
8	1-654-010055-03	SCREW, HEX 1/2-13 UNC X 1-1/2 GR5	1	1	1
9	1-654-010059-01	SCREW, HEX 5/8-11 UNC X 1 GR5	2	2	2
10	1-654-010158-1	SCREW, RDH SQ NEK, 1/4-20 X 3/4	11	11	11
11	1-861-010032-07	WASHER, FLAT 1/4W	11	11	11
12	1-861-010032-11	WASHER, FLAT 3/8W	8	8	16
13	1-861-010034-09	WASHER, SPLIT LOCK 1/4	11	11	11
14	102363	SUSP ADJ RLU-228-3.5 (SEE PAGE 1-60)	3	3	--
15	103056	DECAL, ENERGY BUMPER WARNING (SEE PAGE 1-3)	1	1	1
16	103817	CLAMP, HOSE 660 U/C	1	1	1
17	104034	NUT, HEX 2-12 UNF, GR2	4	4	4
18	119580	BUMPER WELDMENT 660 TUBE WE/P	1	1	1
19	121077	AXLE WELDMENT, 2512 SPG 70.5 X 36	3	3	--
20	121686	PIN, 1-1/2 X 6-1/4	1	1	1
21	128670	SUSPENSION, WLDMT US410	1	--	--
21	171942	SUSPENSION, WLDMT 455-50CA	--	1	--
21	176072	SUSPENSION, WLDMT 455-108" DSK BK	--	--	1
22	142565	PLATE, RUB BUMPER, 2"	2	2	2
23	145532	CAM FOLLWER, 3" SEALED	2	2	2
24	189318	SUPPORT E-CHAIN, 58 LINKS, 3838	1	1	1
25	190700ZP	BRACKET, E-CHAIN LH	1	1	1
26	190705ZP	BRACKET, E-CHAIN RH	1	1	1
27	190701	BRACKET WLDMT, E-CHAIN LH	1	1	1
28	190706	BRACKET WLDMT, E-CHAIN RH	1	1	1
29	2-181-010001	CLAMP	2	2	2
30	3-076-010015	CAM FOLLOWER, 5" DIA	4	4	4
31	3-187-010013	CLIP, PIN RETAINER	1	1	1
32	3-485-010001	MUD FLAP, 21"	2	2	2
33	3-573-010031	DECAL, BUMPER (SEE PAGE 1-3)	1	1	1
34	3-645-010084	ROLLER ASSY, REAR U/C 660FG	1	1	1
35	3-762-010017	CLAMP, MUD FLAP	2	2	4
36	3-821-010005	TRAY, CAT TRACK	1	1	1
37	622-3511-008	WASHER, FLAT 3/4 MIL-CARB, FL SAE	4	4	4
38	213299	MOUNT, WLDMT, MUD FLAP, S/T/T LIGHT	2	2	2
39	213333	(INSTALLED ON AXLES WITHOUT TIRE INFLATION OPTION)	REF	REF	REF

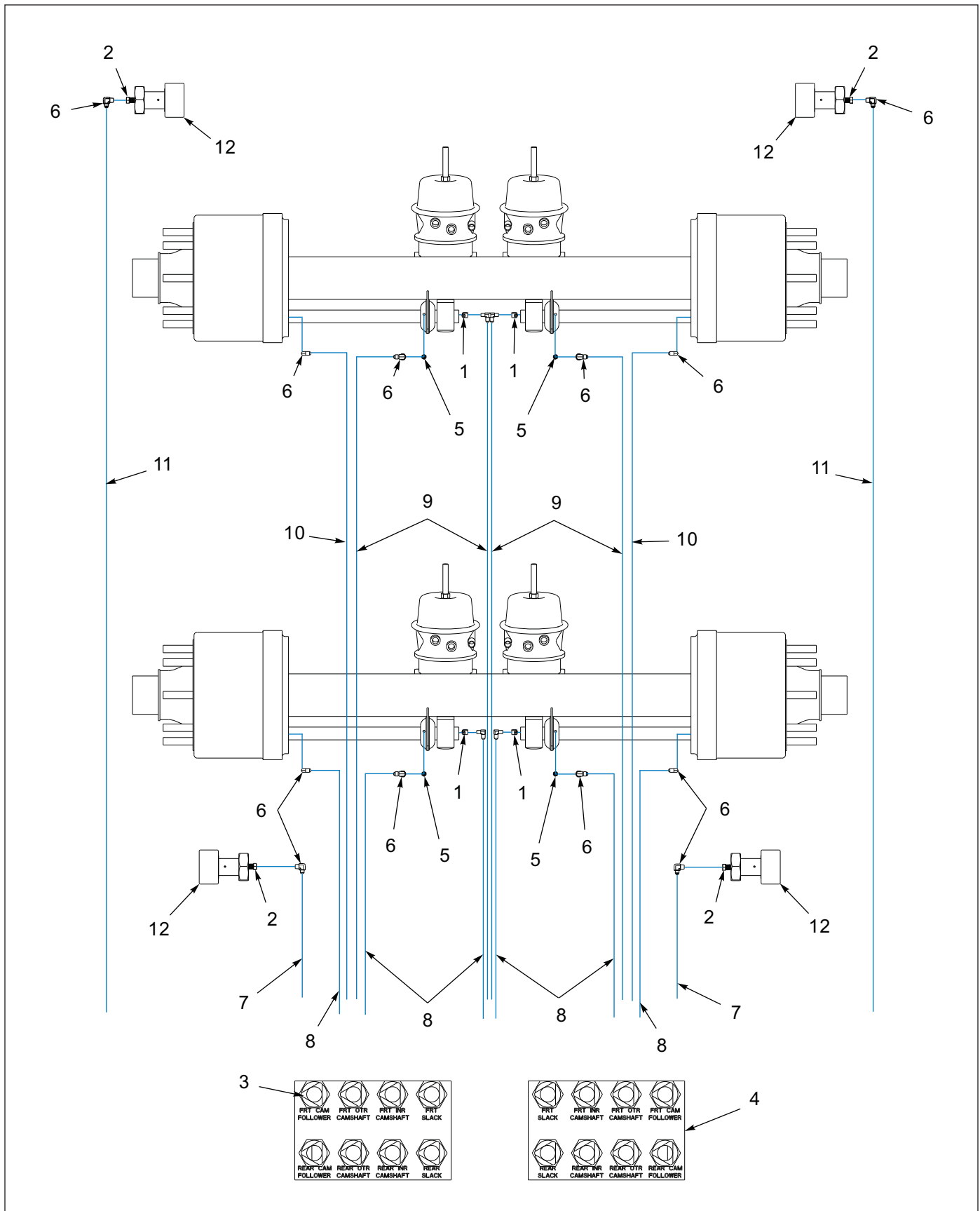


Figure 1-27: Grease System - 440B Spring Brake

Grease System - 440B Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.	
	214413	SUSPENSION 440B 102 SB LED	*	
	214418	SUSPENSION 440B 108 BB 62K D/L	*	
	214422	SUSPENSION 440B-CA 102 SB LED		*
	214425	SUSPENSION 440B-CA 102 BB 62K D/L		*
1	101528	ELBOW, BRASS PIPE STREET	4	4
2	118-2659-1	BUSHING 1/4X1/8 NPT	4	4
3	142545	NUT, HEX JAM 7/16-20 UNC	16	16
4	142553	DECAL, GREASE TRL U/C	2	2
5	202094	ADAPTER 5/16-18X1/8 NPT FEMALE	4	4
6	202099	FITTING GREASE 90 DEG SWIV P-T-C 1/8 NPT MALE 1/4T	16	16
7	202103	HOSE ASSEMBLY GREASE 1/8X45	2	--
7	202104	HOSE ASSEMBLY GREASE 1/8X60	--	2
8	202106	HOSE ASSEMBLY GREASE 1/8X72	6	--
8	202108	HOSE ASSEMBLY GREASE 1/8X88	--	6
9	202112	HOSE ASSEMBLY GREASE 1/8X118	4	--
9	202113	HOSE ASSEMBLY GREASE 1/8X126	2	--
10	202114	HOSE ASSEMBLY GREASE 1/8X133	--	4
10	202116	HOSE ASSEMBLY GREASE 1/8X144	--	2
11	202118	HOSE ASSEMBLY GREASE 1/8X156	2	--
11	202121	HOSE ASSEMBLY GREASE 1/8X172	--	2
12	3-076-010005	CAM FOLLOWER 4 IN. DIA	REF	REF

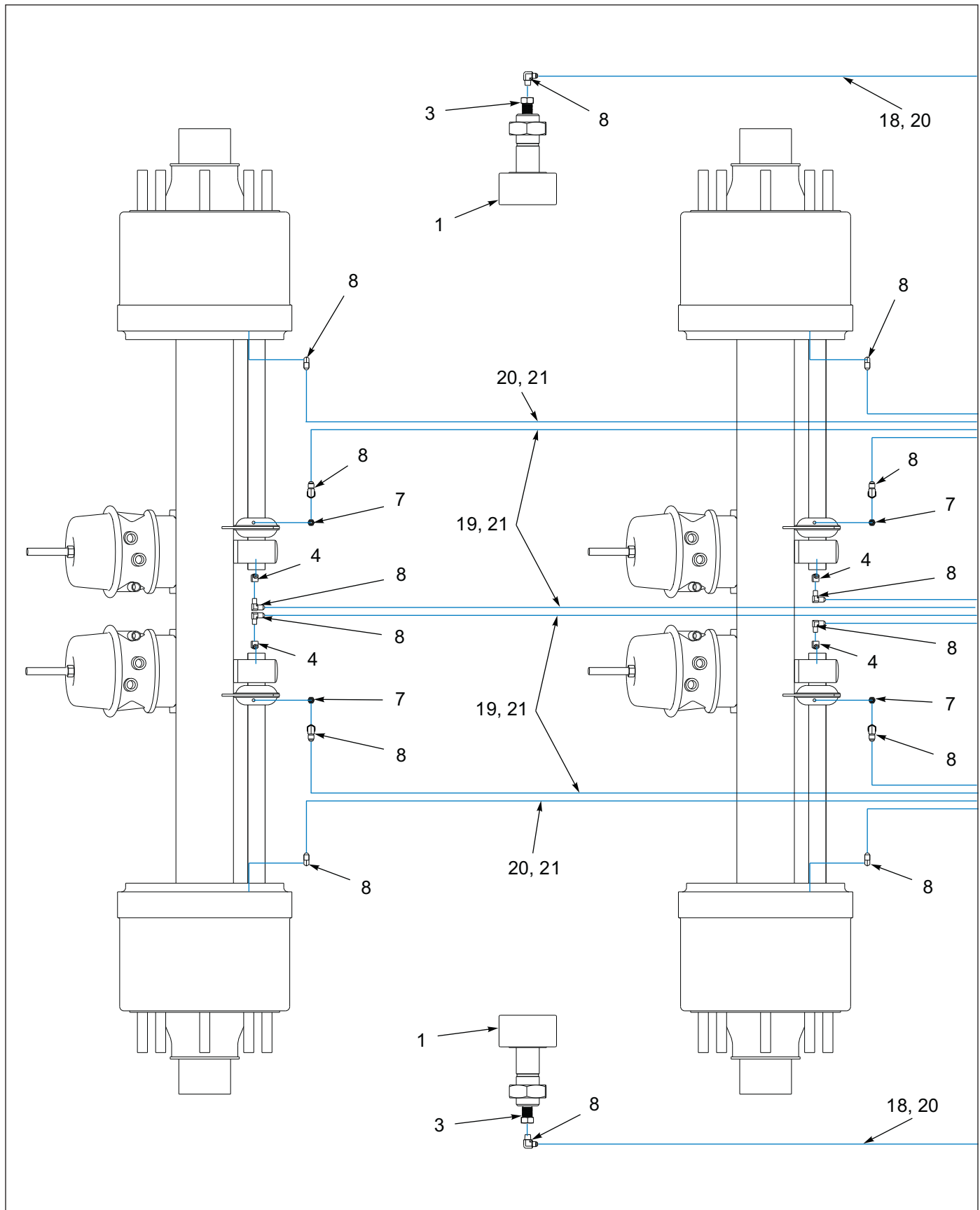


Figure 1-28: Grease System - 455B Spring Brake - Side A

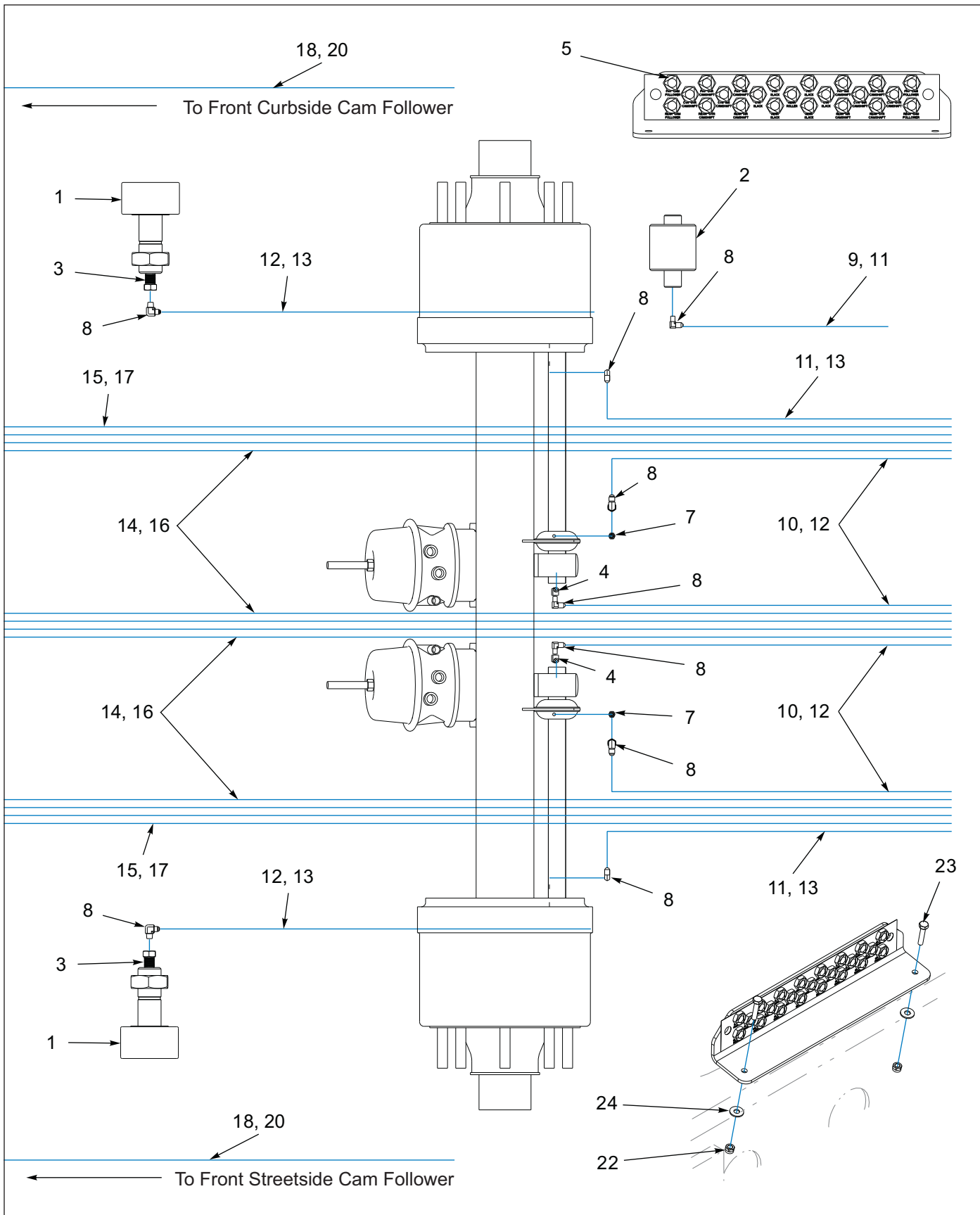


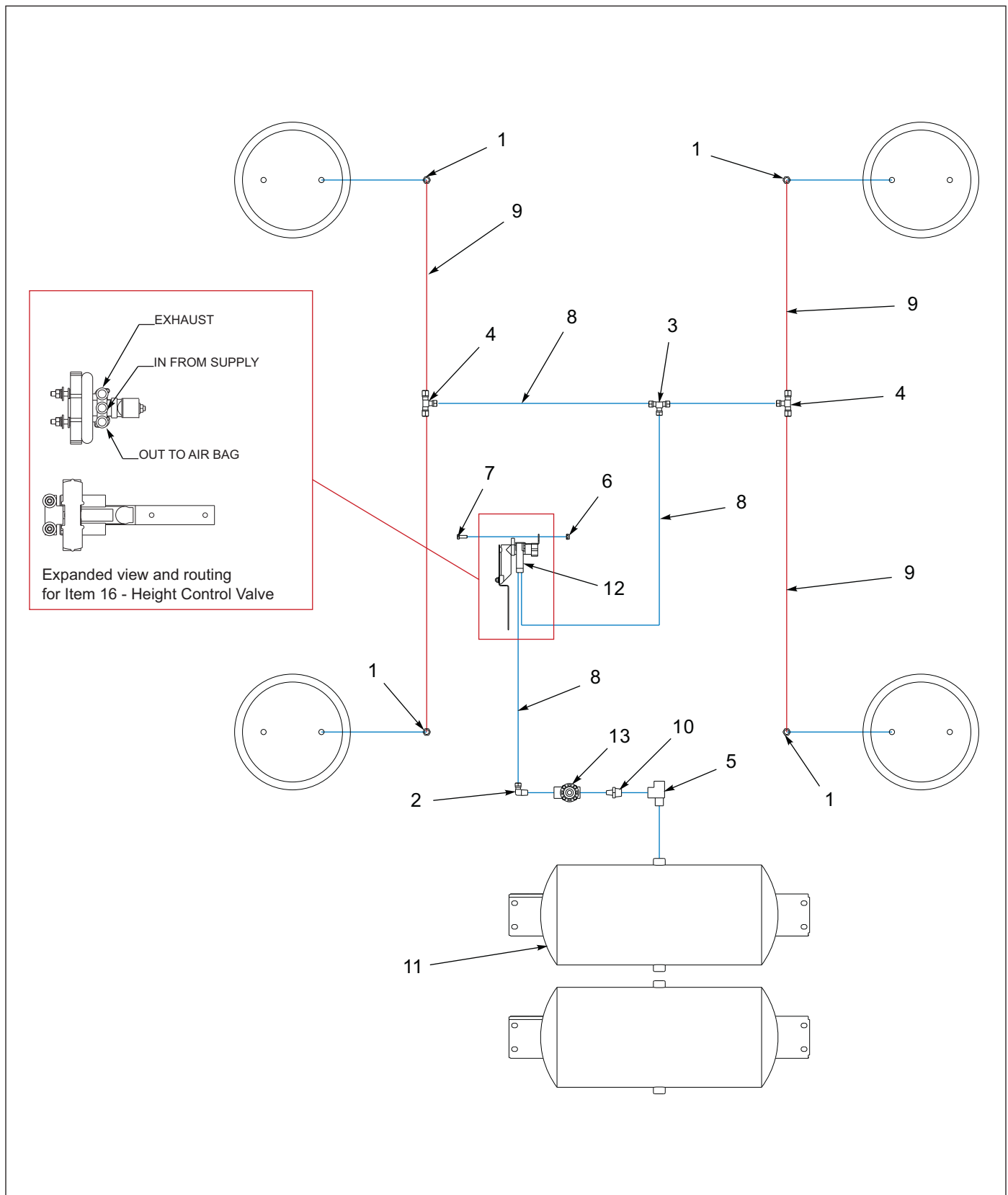
Figure 1-29: Grease System - 455B Spring Brake - Side B

Grease System - 455B Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.	
	214468	SUSPENSION 455B 102 SB	*	
	214477	SUSPENSION 455B-CA 102 SB	*	
1	3-076-010015	5 IN. DIAMETER CAM FOLLOWER	REF	REF
2	3-645-010084	ROLLER ASSY REAR U/C	REF	REF
3	118-2659-1	BUSHING 1/4X1/8 NPT	4	4
4	101528	ELBOW BRASS PIPE STREET	6	6
5	142545	NUT HEX JAM 7/16-20 UNC	23	23
6	143688	DECAL GREASE	1	1
7	202094	ADAPTER 5/16-18X1/8 NPT FEMALE	6	6
8	202099	FITTING GREASE 90 SWIV P-T-C 1/8NPT MALE 1/4T	23	23
9	202103	HOSE ASSEMBLY GREASE 1/8X45	1	--
10	202104	HOSE ASSEMBLY GREASE 1/8X60	4	--
11	202106	HOSE ASSEMBLY GREASE 1/8X72	2	1
12	202107	HOSE ASSEMBLY GREASE 1/8X83	2	4
13	202111	HOSE ASSEMBLY GREASE 1/8X102	--	4
14	202112	HOSE ASSEMBLY GREASE 1/8X118	4	--
15	202113	HOSE ASSEMBLY GREASE 1/8X126	2	--
16	202116	HOSE ASSEMBLY GREASE 1/8X144	--	4
17	202118	HOSE ASSEMBLY GREASE 1/8X156	--	2
18	202121	HOSE ASSEMBLY GREASE 1/8X172	2	--
19	202123	HOSE ASSEMBLY GREASE 1/8X186	4	--
20	204223	HOSE ASSEMBLY GREASE 1/8X200	2	2
21	204224	HOSE ASSEMBLY GREASE 1/8X217	--	6
22	1-512-010005-01	NUT HEX SLFLKG, 1/4-20 GRADE B	2	2
23	1-654-010047-07	SCREW, HEX CAP 1/2-20X1-1/4 GRB	2	2
24	1-861-010032-07	WASHER, FLAT, ZP/CD 1/4W	2	2

[illegible]

Suspensions



Air Ride Suspension - 440B

ITEM	PART NO.	DESCRIPTION	QTY.
	212402	SUSP 440CA 2512 - 70.5 THERM TIS	
	212404	SUSP 440CA 2512 - 70.5 D/L TIS	
	216200	SUSP 440B 102 BB MTIS	
	216202	SUSP 440B 102 BB D/L MTIS	
1	1-297-010007-11	FITTING, AIR	4
2	1-297-010008-07	FITTING, AIR 90	1
3	1-297-010010-01	FITTING, AIR UNION TEE	1
4	1-297-010010-04	FITTING, AIR UNION TEE	2
5	1-297-010018-04	FITTING, 1/2 BRASS PIPE, ST TEE	1
6	1-512-010005-01	NUT, HEX SLFLKG 1/4-20 UNC, GRB	2
7	1-654-010047-04	SCREW, HEX 1/4-20 UNC X 3/4 GR5	2
8	1-833-010001	TUBING, NYLON 1/4 OD	25
9	1-833-010002	TUBING, NYLON 3/8 OD	8
10	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
11	3-780-010002	TANK, AIR	2
12	900 54 007	HEIGHT CONTROL VALVE	1
13	905-54-107	BRAKE PROTECTION VALVE	1
14	102732	AIR CONTROL KIT (NOT SHOWN) (SEE PAGE 1-58)	1

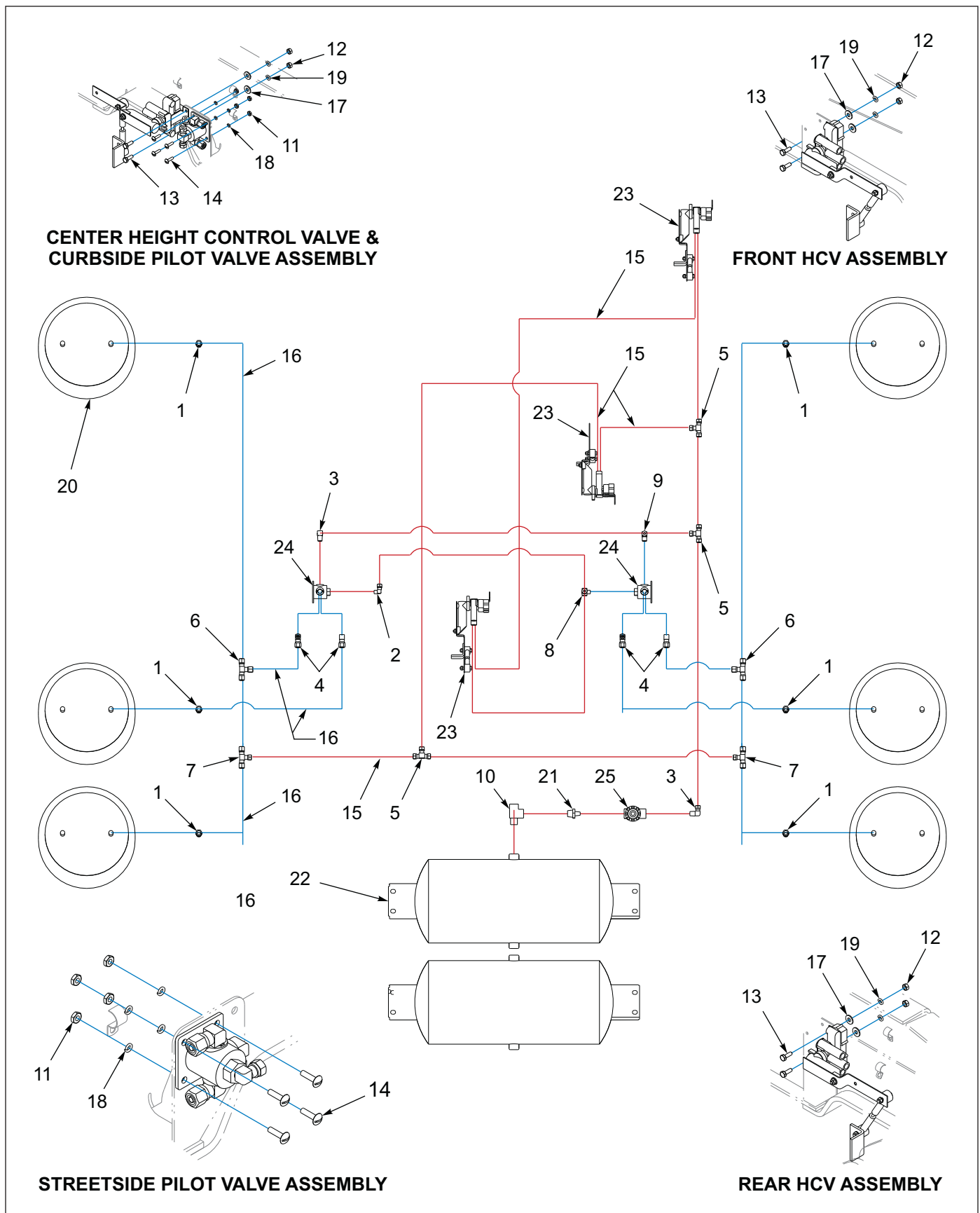


Figure 1-31: Air Ride Suspension - 455B

Air Ride Suspension - 455B

ITEM	PART NO.	DESCRIPTION	QTY.
	214468	SUSPENSION 455B 102 SB	
	214477	SUSPENSION 455B-CA 102 SB	
1	1-297-010007-11	FITTING AIR	6
2	1-297-010008-05	FITTING AIR 90	1
3	1-297-010008-07	FITTING AIR 90	2
4	1-297-010008-18	FITTING AIR 90	4
5	1-297-010010-01	FITTING AIR UNION TEE	3
6	1-297-010010-03	FITTING AIR UNION TEE 3/8	2
7	1-297-010010-04	FITTING AIR UNION TEE	2
8	1-297-010015-02	FITTING AIR BRANCH TEE	1
9	1-297-010015-03	FITTING AIR BRANCH TEE	1
10	1-297-010018-04	FITTING, 1/2 BRASS PIPE, ST TEE	REF
11	1-512-010007-03	NUT, HEX 10-24	8
12	1-512-010007-05	NUT, HEX 1/4-20 UNC X 3/4GR5	6
13	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
14	1-656-010003051	SCREW RH HD MACH #10-24 X 3/4	8
15	1-833-010001	TUBING NYLON 1/4 OD	48
16	1-833-010002	TUBING NYLON 3/8 OD	24
17	1-861-010032-07	WASHER, FLAT Z/P/CD, 1/4W	6
18	1-861-010034-07	WASHER, LKG HLCL SPR, #10	8
19	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	6
20	102363	SUSPENSION, ADJ RLU-228-3.5 (SEE PAGE 1-60)	8
21	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
22	3-780-010002	TANK, AIR	2
23	3-843-010034	VALVE AIR RIDE HEIGHT CONTROL	3
24	900-54-079	PILOT VALVE	3
25	905-54-107	BRAKE PROTECTION VALVE	2
26	205573	TOOL, RIDE HEIGHT, SMALL BRAKES (NOT SHOWN)	REF
27	205574	TOOL, RIDE HEIGHT, BIG BRAKES (NOT SHOWN)	REF
28	-----	RIDE HEIGHT SCHEMATIC (SEE PAGE 1-56, 1-57)	REF

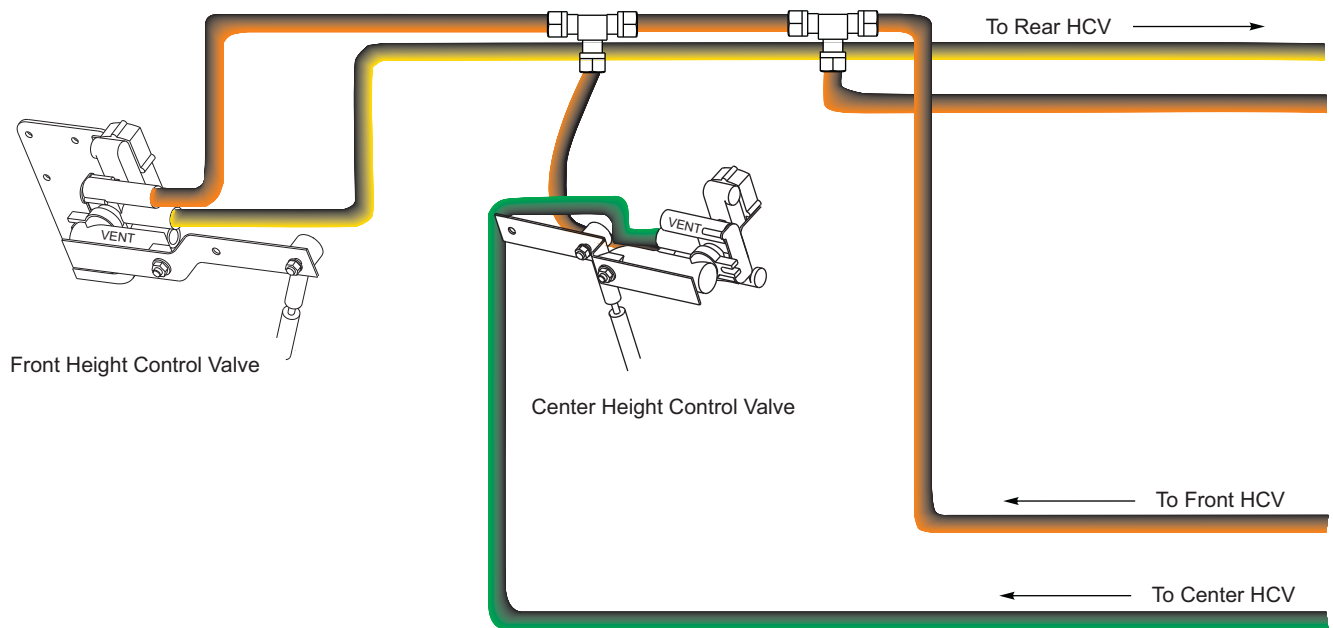


Figure 1-32: Ride Height Air Schematic - Side A

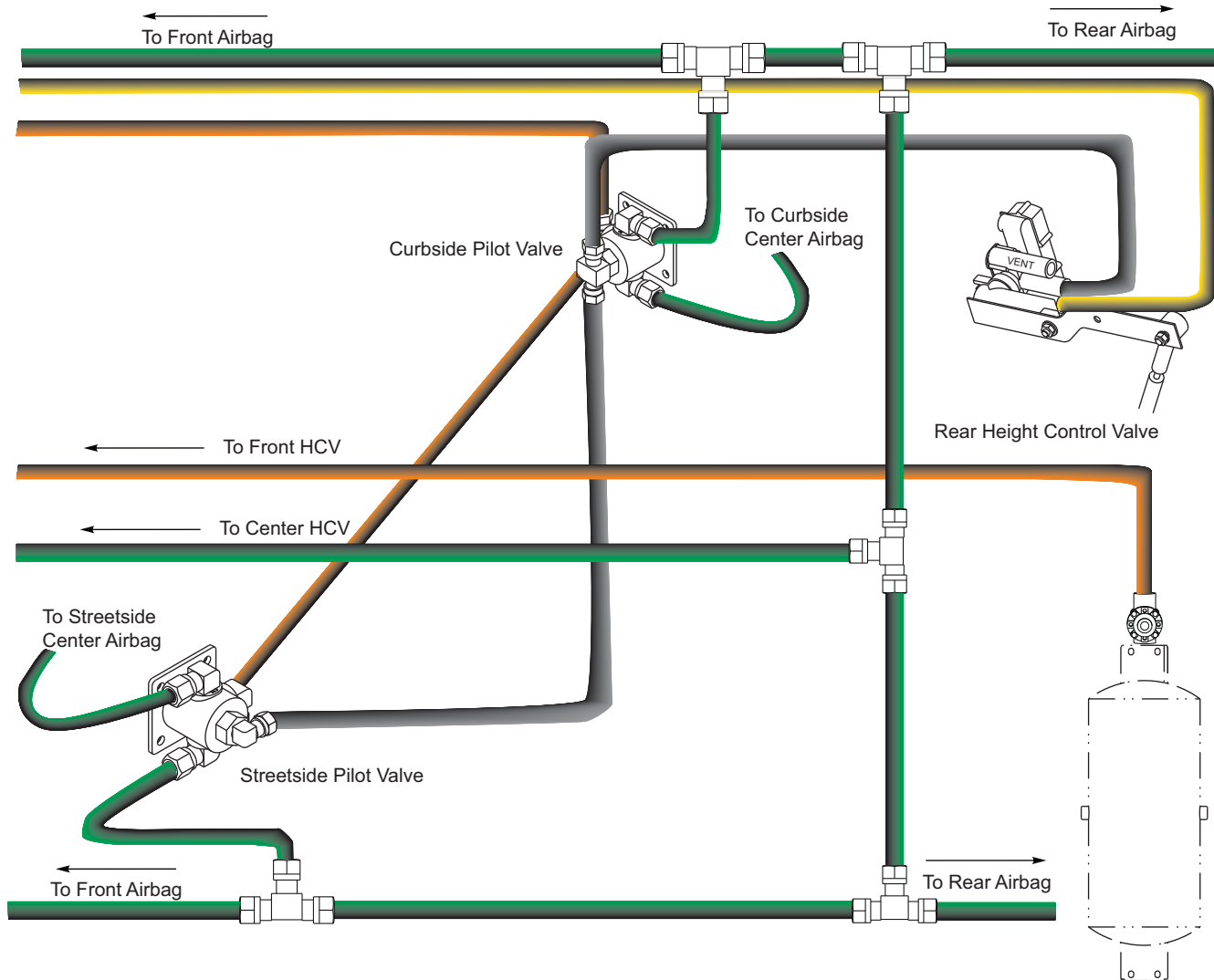


Figure 1-33: Ride Height Air Schematic - Side B

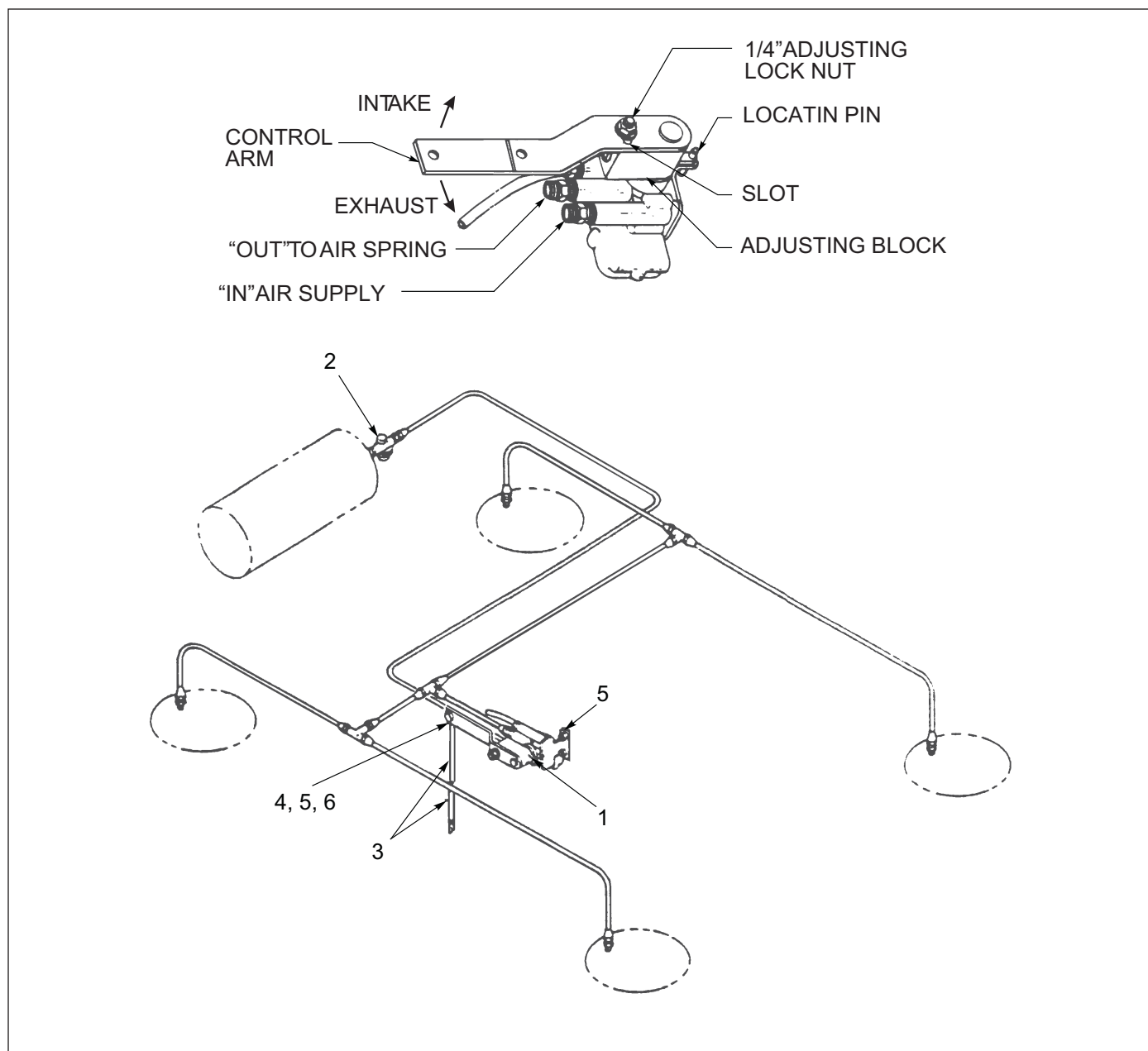


Figure 1-34: Air Control Kit - Neway

Air Control Kit - Neway

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE (BEFORE 3-04-2016)	1
	905-54-186	HEIGHT CONTROL VALVE (AFTER 3-04-2016)	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

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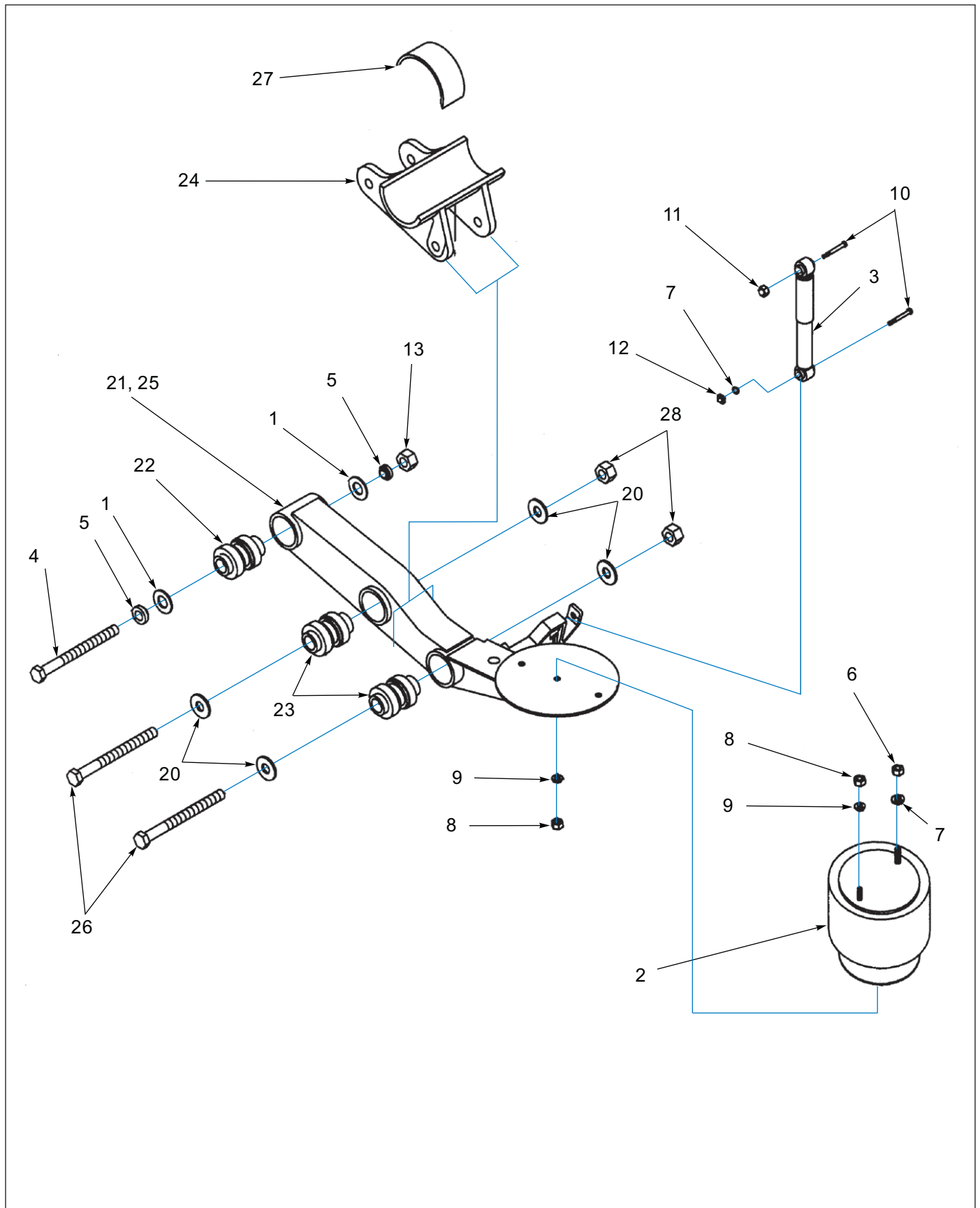


Figure 1-35: Suspension Hanger - RLU-228

Suspension Hanger - RLU-228

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY*
	102363		SUSPENSION, ADJ. RLU-228-3.5 (ITEMS 1-19)	
	102364		SUSPENSION, ADJ. RLU-228-5.5 (ITEMS 1-19)	
	102361		SUSPENSION, BEAM. RLU-228 (ITEMS 20-28)	
1	111010	900 36 177	FLAT WASHER	2
2	905-57-129	905 57 129	AIR SPRING ASSEMBLY - 102363	2
2	111016	905 57 159	AIR SPRING ASSEMBLY - 102364	2
3	900 45 040	900 45 040	SHOCK - 102363	2
3	111017	900 44 642	SHOCK - 102364	2
4	90508009	905 08 009	ALIGN BUSH ASSEMBLY	2
5	129006	900 08 238	ALIGN BLOCK, NON WELD	2
6	934 00 149	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	936 00 077	LOCK WASHER, 3/4 IN.	4
8	1-512-010007-09	934 00 136	HEX NUT, 1/2-13	4
9	1-861-010034-13	936 00 072	LOCK WASHER, 1/2 IN.	4
10	105408	930 03 597	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934-00-492	934-00-492	LOCK NUT, 3/4-10	2
12	111022	934 00 367	3/4-10 SQUARE NUT	2
13	111008	934 00 506	LOCK NUT 1-1/8-7	2
14	111018	900 54 038	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	-----	941 00 787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	-----	941 00 685	LITERATURE SPEC (NOT SHOWN)	1
17	-----	941 00 648	LITERATURE FORM 864 (NOT SHOWN)	1
18	-----	941 00 590	LITERATURE LABEL (NOT SHOWN)	1
19	-----	941 00 790	LITERATURE LABEL (NOT SHOWN)	1
20	111010	900 36 177	FLAT WASHER	8
21	111013	905 16 600	EQUALIZING BEAM ASSEMBLY LH	1
22	900-08-139	900 08 139	RUBBER BUSHING - FRONT PIVOT	2
23	111011	900 08 149	RUBBER BUSHING - AXLE CONNECTION	4
24	111012	900 01 200	AXLE ADAPTER ASSEMBLY	2
25	111014	905 16 601	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	932 01 051	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	111015	90025288	SAFETY STRAP	2
28	934-00-506	934 00 506	LOCK NUT 1-1/8-7	4
29	109533	481 00 294	ALIGNMENT BLOCK KIT	1
30	126900	905 20 543	BRACKET BOTTOM SHOCK - RLU-228	1
31	141708	-----	WIRE ROPE STRAP KIT RLU 228-3.5	1
31	127708	-----	WIRE ROPE STRAP KIT RLU 228-5.5	1
32	111019	110 05 053	FASTENER KIT (ITEMS 1, 4-11, 13 & 15)	1

Axle and Brakes

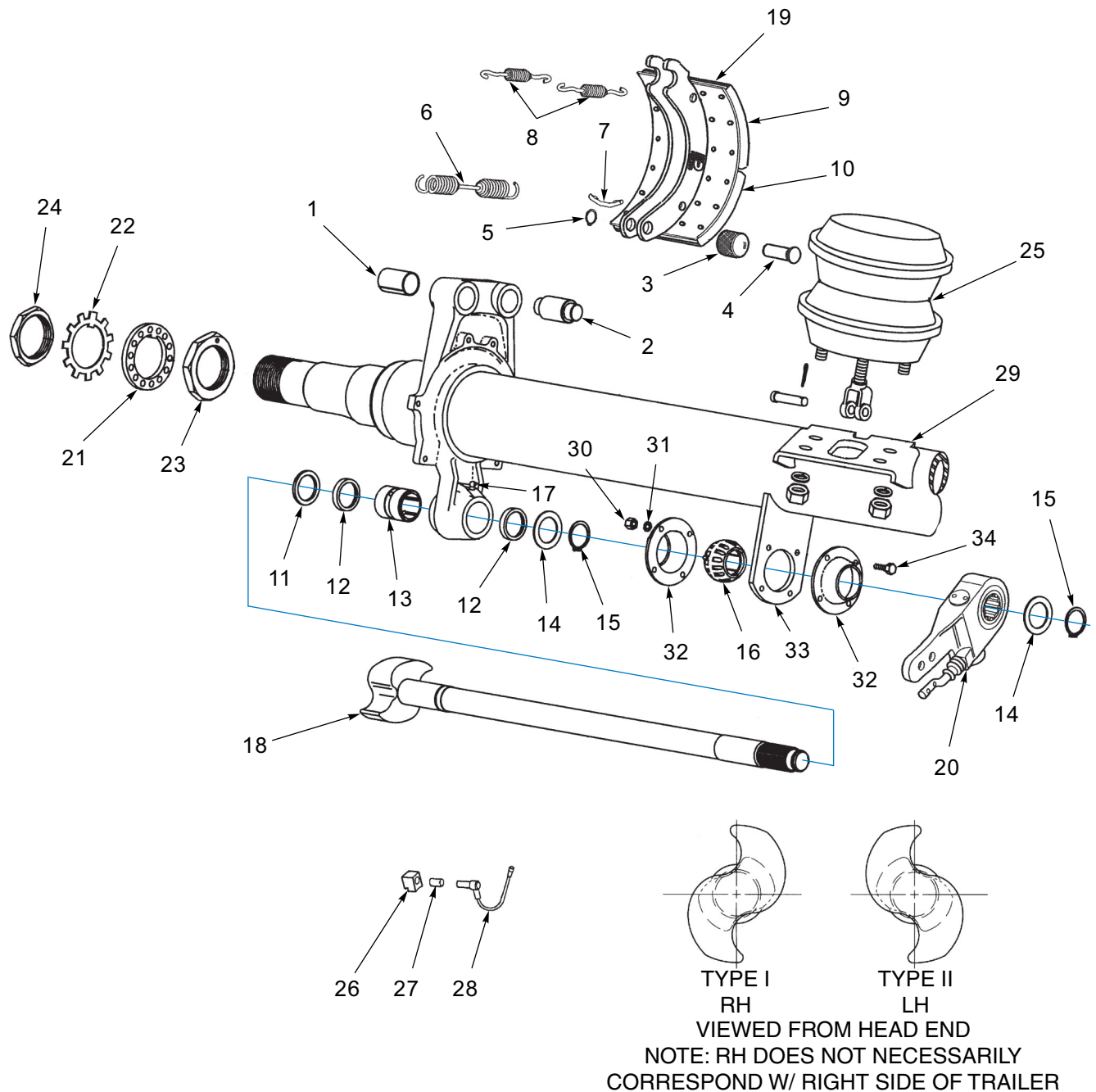


Figure 1-36: Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115703		AXLE 70.5, 12.25 X 7.5 SPG BRK - 25K	
	115704		AXLE 77, 12.25 X 7.5 SPG BRK - 25K	
	142510		AXLE 88.5, 12.25 X 7.5 SPG BRK - 25K	
	K71-460-00	K71-460-00	BRAKE SHOE HARDWARE KIT (ITEMS 1-8)	
	-----	K71-133-00	BRAKE BLOCK KIT (ITEMS 9 & 10)	
	K71-101-00	K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 11-17)	
1	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
2	-----	056-017-00	ANCHOR PIN	4
3	-----	014-057-00	ROLLER	4
4	-----	056-010-00	RETAINER, ROLLER PIN	8
5	-----	069-018-00	RETAINER, RING	8
6	-----	046-092-00	SPRING, SHOE RETRACTOR	2
7	056-018-00	056-018-00	RETAINER PIN, RETRACTOR SPRING	4
8	046-097-00	046-097-00	SPRING, KEEPER	4
9	-----	041-057-01	LINING, BRAKE BLOCK ANCHOR	2
10	-----	041-060-01	LINING, BRAKE BLOCK CAM	2
11	005-074-00	005-074-00	D" WASHER, CAMSHAFT	2
12	010-052-00	010-052-00	SEAL, GREASE	4
13	-----	014-056-00	BUSHING, CAMSHAFT SPIDER	2
14	-----	005-134-00	WASHER, CAMSHAFT END	2
15	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
16	-----	014-058-00	BUSHING, CAMSHAFT SUPPORT	2
17	-----	061-006-00	FITTING, GREASE 45°	2
18	034-188-03	034-188-03	CAMSHAFT, 22-5/16" LH (USED W/ 115703)	1
18	034-189-03	034-189-03	CAMSHAFT, 22-5/16" RH (USED W/ 115703)	1
18	136991	034-188-05	CAMSHAFT, 23-3/8" LH (USED W/ 115704)	1
18	136992	034-189-03	CAMSHAFT, 23-3/8" RH USED W/ 115704)	1
18	171963	034-188-09	CAMSHAFT, 26-1/2" LH (USED W/ 142510)	1
18	171964	034-189-09	CAMSHAFT, 26-1/2" RH (USED W/ 142510)	1
19	040-320-01	040-320-01	SHOE AND LINING ASSEMBLY	4
20	156655	055-040-99	SLACK ADJUSTER, AUTOMATIC	2
21	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
22	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
23	006-114-00	006-114-00	NUT, INNER SPINDLE	2
24	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
25	034-057-07	034-057-07	AIR CHAMBER, SERVICE BRAKE	2
25	034-058-07	034-058-07	AIR CHAMBER, SPRING BRAKE	2
26	103805	024-100-00	SENSOR BLOCK	2
27	144979	097-002-00	RETAINER CLIP	2
28	101847	-----	ABS SENSOR CABLE-4M 90° (1FT)	2
29	034-048-00	034-048-00	AIR CHAMBER BRACKET	2
30	006-099-00	006-099-00	RETAINER NUT, CAM BUSH	8
31	005-079-00	005-079-00	LOCK WASHER	8
32	034-032-00	034-032-00	PLATE, BUSHING RETAINER (EACH HALF SOLD SEPERATELY)	4
33	034-031-00	034-031-00	PLATE, CAMSHAFT SUPPORT BRACKET	4
34	007-139-00	007-139-00	BOLT, RETAINER PLATE	8

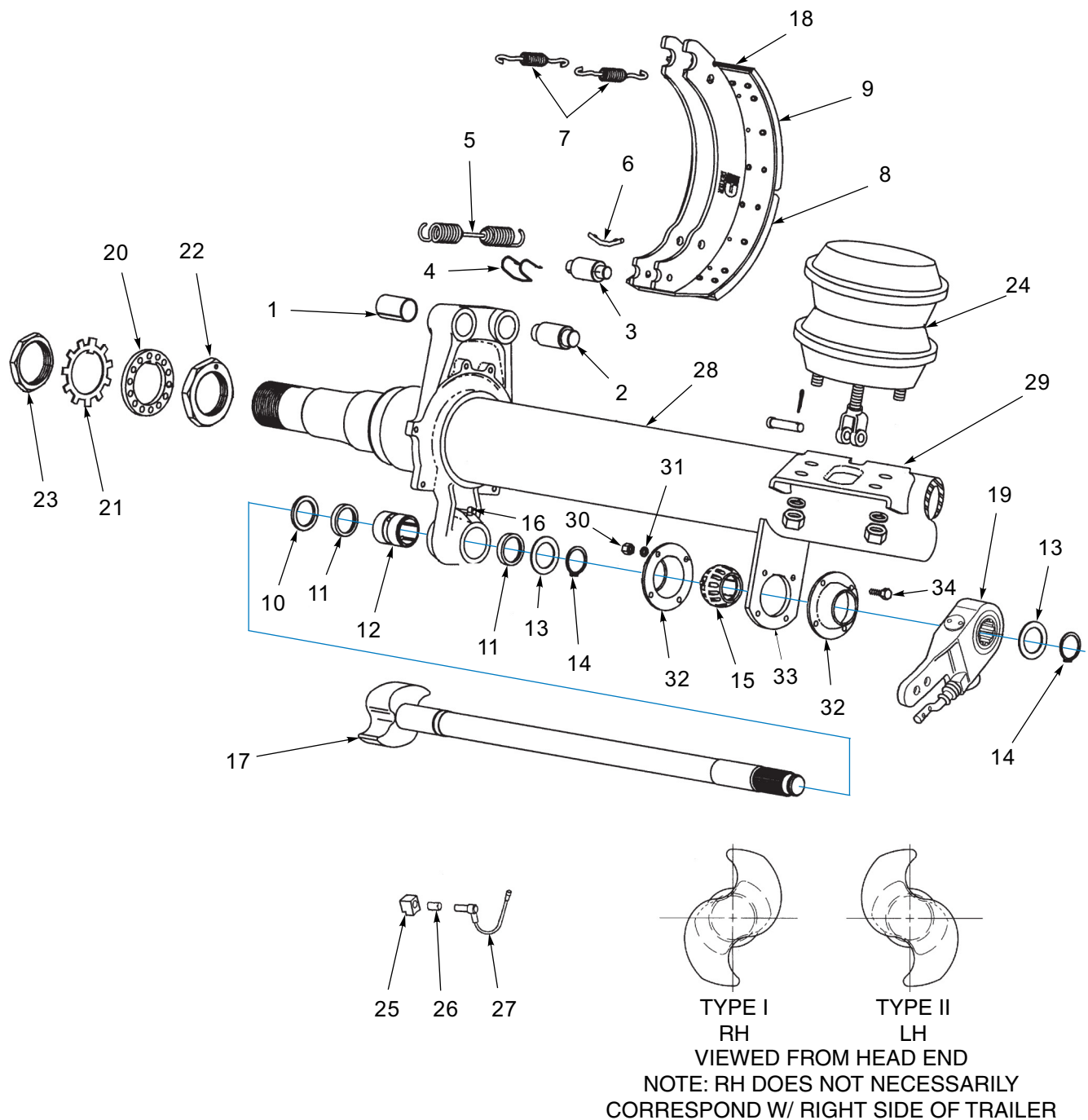


Figure 1-37: Axle and Brake Assembly - Dexter 16-1/2" X 7"

Axle and Brake Assembly - Dexter 16-1/2" X 7"

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115713		AXLE 69, 16.5 X 7 SPG BRK - 25K	
	115715		AXLE 75, 16.5 X 7 SPG BRK - 25K	
	158538		AXLE 87, 16.5 X 7 SPG BRK - 25K	
	K71-136-00	K71-136-00	BRAKE SHOE HARDWARE KIT (ITEMS 1-7)	
	-----	K71-138-00	BRAKE BLOCK KIT (ITEMS 8 & 9)	
	K71-101-00	K71-135-00	CAMSHAFT REPAIR KIT (ITEMS 10-16)	
1	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
2	-----	056-017-00	ANCHOR PIN	4
3	014-065-00	014-065-00	ROLLER	4
4	071-122-00	071-122-00	RETAINER, ROLLER	4
5	046-096-00	046-096-00	SPRING, SHOE RETRACTOR	2
6	056-018-00	056-018-00	RETAINER PIN, RETRACTOR SPRING	4
7	046-097-00	046-097-00	SPRING, KEEPER	4
8	-----	041-058-01	LINING, BRAKE BLOCK CAM	2
9	-----	041-059-01	LINING, BRAKE BLOCK ANCHOR	4
10	005-096-00	005-096-00	D" WASHER, CAMSHAFT	2
11	010-052-00	010-052-00	SEAL, GREASE	4
12	-----	014-056-00	BUSHING, CAMSHAFT SPIDER	2
13	-----	005-134-00	WASHER, CAMSHAFT END	2
14	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15	-----	014-058-00	BUSHING, CAMSHAFT SUPPORT	2
16	-----	061-006-00	FITTING, GREASE 45°	2
17	034-192-05	034-192-05	CAMSHAFT, 22-5/8" LH (USED W/ 115713)	1
17	034-193-05	034-193-05	CAMSHAFT, 22-5/8" RH (USED W/ 115713)	1
17	137461	034-192-08	CAMSHAFT, 25" LH (USED W/ 115715 & 158538)	1
17	137485	034-193-08	CAMSHAFT, 25" RH (USED W/ 115715 & 158538)	1
18	040-180-00	040-180-00	SHOE AND LINING ASSEMBLY	4
19	139383	055-040-98	SLACK ADJUSTER, AUTOMATIC	2
20	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
21	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
22	006-114-00	006-114-00	NUT, INNER SPINDLE	2
23	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
24	034-057-01	034-057-01	AIR CHAMBER, SERVICE BRAKE	2
24	034-058-01	034-058-01	AIR CHAMBER, SPRING BRAKE	4
25	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	101847	-----	ABS SENSOR CABLE-4M 90° (1FT)	2
28	-----	D-2H16	BEAM W/ BRACKETS	1
29	034-048-00	034-048-00	AIR CHAMBER BRACKET	2
30	006-099-00	006-099-00	RETAINER NUT, CAM BUSH	8
31	005-079-00	005-079-00	LOCK WASHER	8
32	034-032-00	034-032-00	PLATE, BUSHING RETAINER (EACH HALF SOLD SEPERATELY)	4
33	034-031-00	034-031-00	PLATE, CAMSHAFT SUPPORT BRACKET	4
34	007-139-00	007-139-00	BOLT, RETAINER PLATE	8

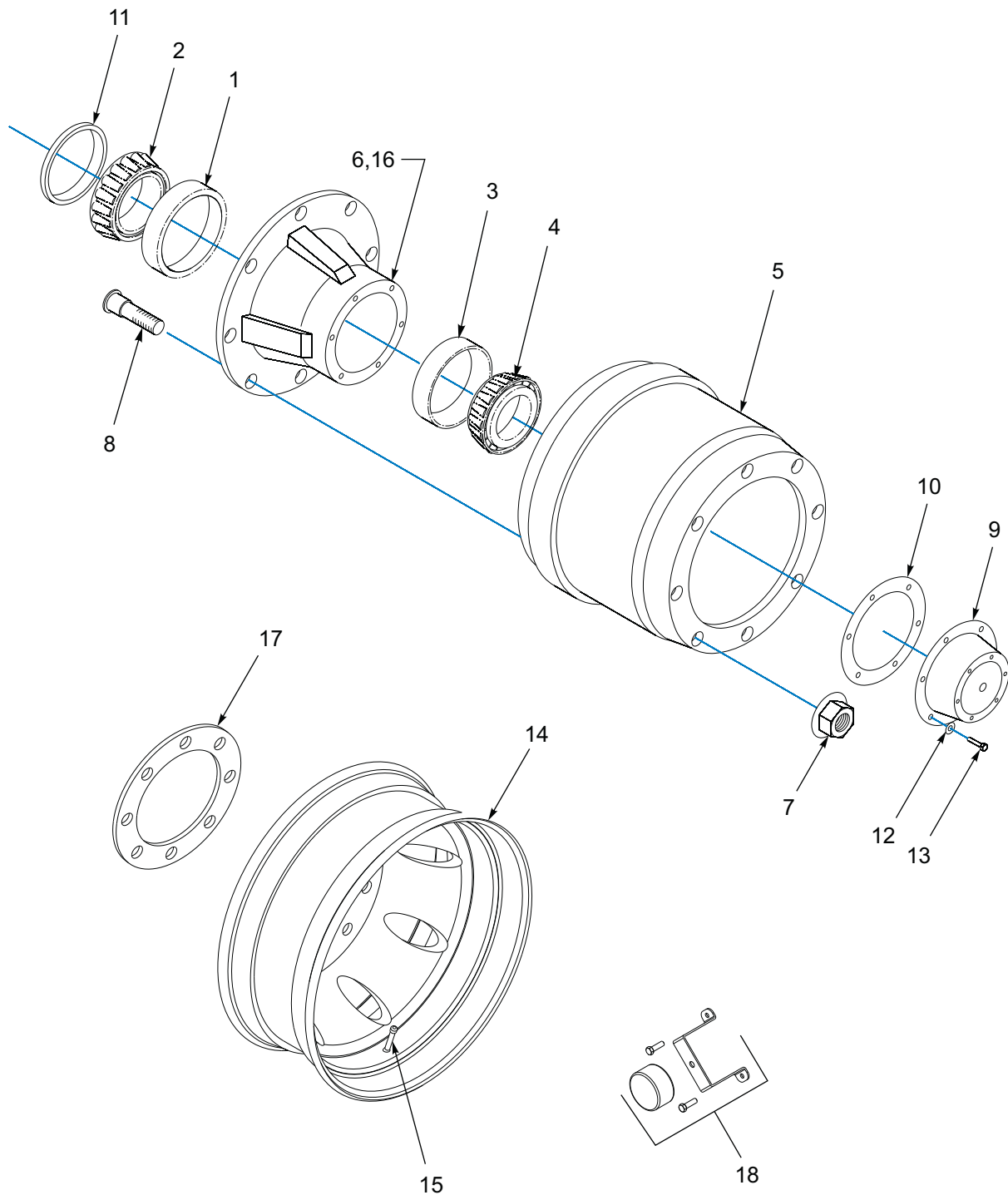


Figure 1-38: Outboard Pilot Mount Hub and Drum Assembly

Outboard Pilot Mount Hub and Drum Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	63680	OUTBOARD MOUNTED BRAKE DRUM - 8 BOLT	1
6	112492	HUB/DRUM, 8 BOLT, 12-1/4 PILOT ABS	1
7	179933	NUT, HEX M22 X 1.5	8
8	113536	STUD, 22MM 3.5 STANDOUT	8
9	4009	CAP, HUB	1
10	3067	GASKET, OIL CAP	1
11	3-659-010012	SEAL	1
12	1-861-010034-10	WASHER, SPLIT LOCK 5/16	6
13	1-654-010049-03	SCREW, HEX HEAD CAP, 5/16-18 X 3/4 GR5	6
14	100402	WHEEL, ALUM PILOT MT 17.5 X 6.75, POLISHED - 8 BOLT	1
14	3-870-010097	WHEEL, DISC PILOT MT 17.5 X 6.75 - 8 BOLT	1
14	112047	WHEEL, ALUM PILOT, 17.5 X 6.75 MACH	1
15	TR573	VALVE STEM - STEEL WHEEL	1
15	100401	VALVE STEM TR543C	1
15	1-843-010014	VALVE EXSTENSION STEM 3"	1
16	-----	ABS TONE RING	1
17	114619	WHEEL GUARD 8 HOLE 275 MM BC - USED W/ ALUMINUM	1
17	3-870-010107	WHEEL GUARD 10 HOLE 285.75MM BC (NOT SHOWN)	1
18	142549	HUBODOMETER W/ BRACKET, 10R17.5 TIRE	REF
18	142551	HUBODOMETER W/ BRACKET, 215/75R17.5 TIRE	REF
18	142550	HUBODOMETER W/ BRACKET, 235/75R17.5 TIRE	REF
18	137108	HUBODOMETER W/ BRACKET, 255/70R22.5 TIRE	REF

Air Brake System

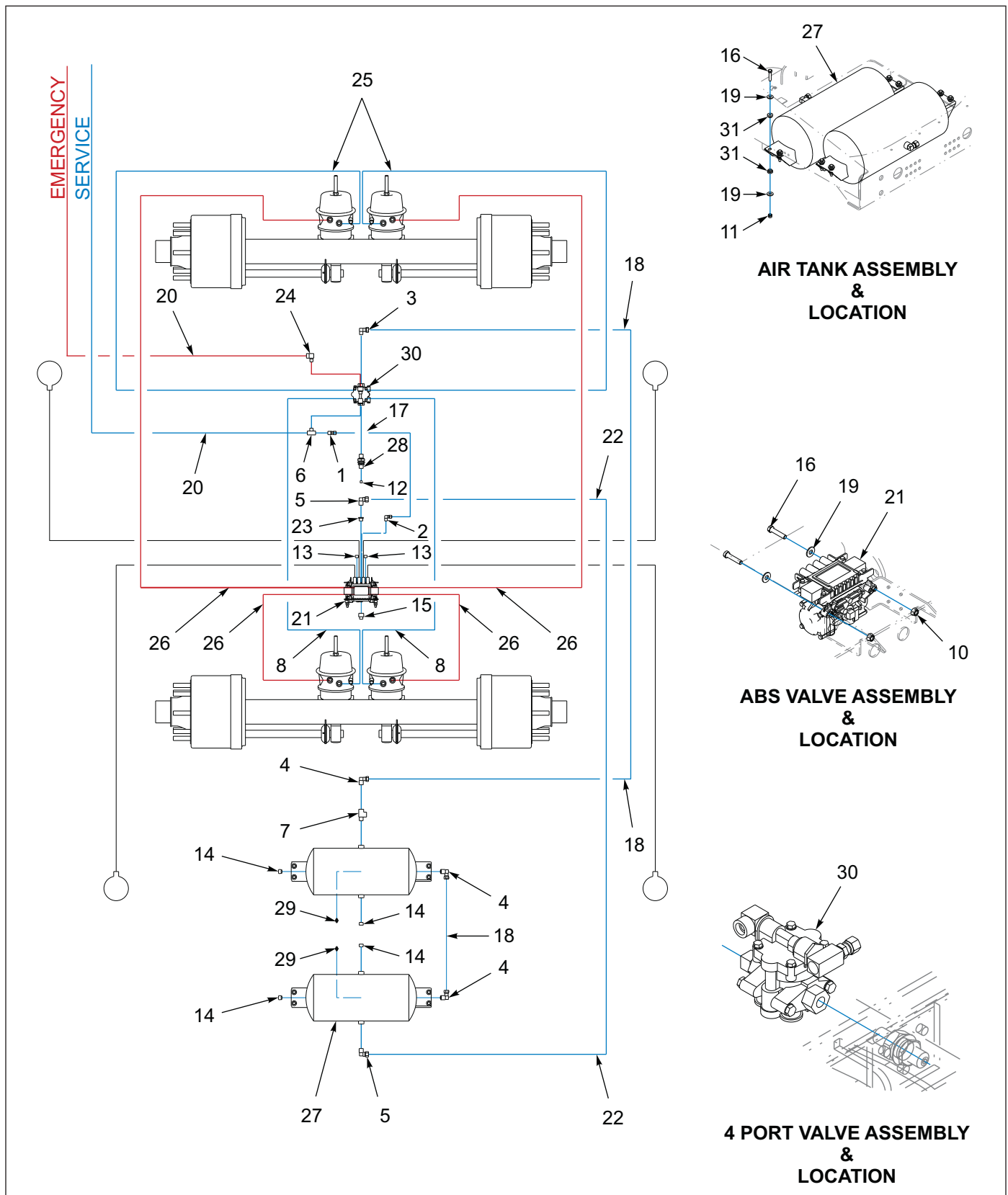


Figure 1-39: Air Brake System - 440B

Air Brake System - 440B

ITEM	PART NO.	DESCRIPTION	QTY.
	189600	SUSPENSION, 440A 102 SB LED	
	189637	SUSPENSION, 440A 102 SB 62K D/L	
	189602	SUSPENSION, 440A-CA 102 SB LED	
	189639	SUSPENSION, 440A-CA 102 SB 62K D/L	
1	1-297-010007-12	FITTING AIR 3/8 TUBE TO 3/8 NPT	1
2	1-297-010008-18	FITTING, AIR 90, 3/8 TUBE X 1/4 NPT	1
3	1-297-010008-23	FITTING, AIR 90, 1/2 TUBE TO 3/8 NPT	1
4	1-297-010008-24	FITTING, AIR 90, 1/2 TUBE TO 1/2 NPT	3
5	1-297-010008-26	FITTING, AIR 90, 5/8 TUBE TO 1/2 NPT	2
6	1-297-010017-03	FITTING, AIR PIPE, M/BR TEE 3/8	1
7	1-297-010018-04	FITTING, 1/2 BRASS PIPE ST TEE	1
8	1-384-010038056	HOSE, AIR 56" 3/8 WITH 3/8 ENDS	2
9	1-394-010001	HOSE, ABRASION SLEEVE X 2 (NOT SHOWN)	2
10	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
11	1-512-010005-05	NUT, HEX SLFLKG, 3/8-16 UNC, GRB	8
12	1-560-010002-02	PLUG, PIPE 1/4 NPT	1
13	1-560-010002-03	PLUG, PIPE 3/8 NPTF	2
14	1-560-010002-04	PLUG, PIPE 1/2 NPT	4
15	1-560-010002-05	PLUG, PIPE 3/4-14 NPTF	1
16	1-654-010051-08	SCREW, HEX 3/8-16 UNC X 1-3/4 GR5	10
17	1-833-010002	TUBING, NYLON 3/8 OD	7
18	1-833-010003	TUBING, NYLON 1/2 OD	15
19	1-861-010032-11	WASHER, FLAT Z/P/CD, 3/8W	18
20	100949	HOSE, AIR 3/8 X 222 WITH 3/8 ENDS	2
21	114584	ABS KIT WABCO, 4S/2M (SEE PAGE 1-76)	1
22	117304	TUBING, NYLON 5/8 OD	7
23	118-2659-9	BUSHING, 1/2NPT X 3/4NPT STL	1
24	2089-6-6S	ADAPTER, 903/8MPT X 3/8FPT	1
25	3-384-010020	HOSE, AIR 3/8 X 32, .38 NPT ENDS	2
26	3-384-010031	HOSE, AIR 3/8 X 42, .38 NPT ENDS	4
27	3-780-010002	TANK, AIR 9.5 X 55.2, .5NPT PORTS	2
28	55B61	FRAME UNION	1
29	56D4	COCK, DRAIN AIR TANK VEL036019	2
30	758-181	VALVE TASK, 4 PORT	1
31	805-2	BUSHING, STEP	16

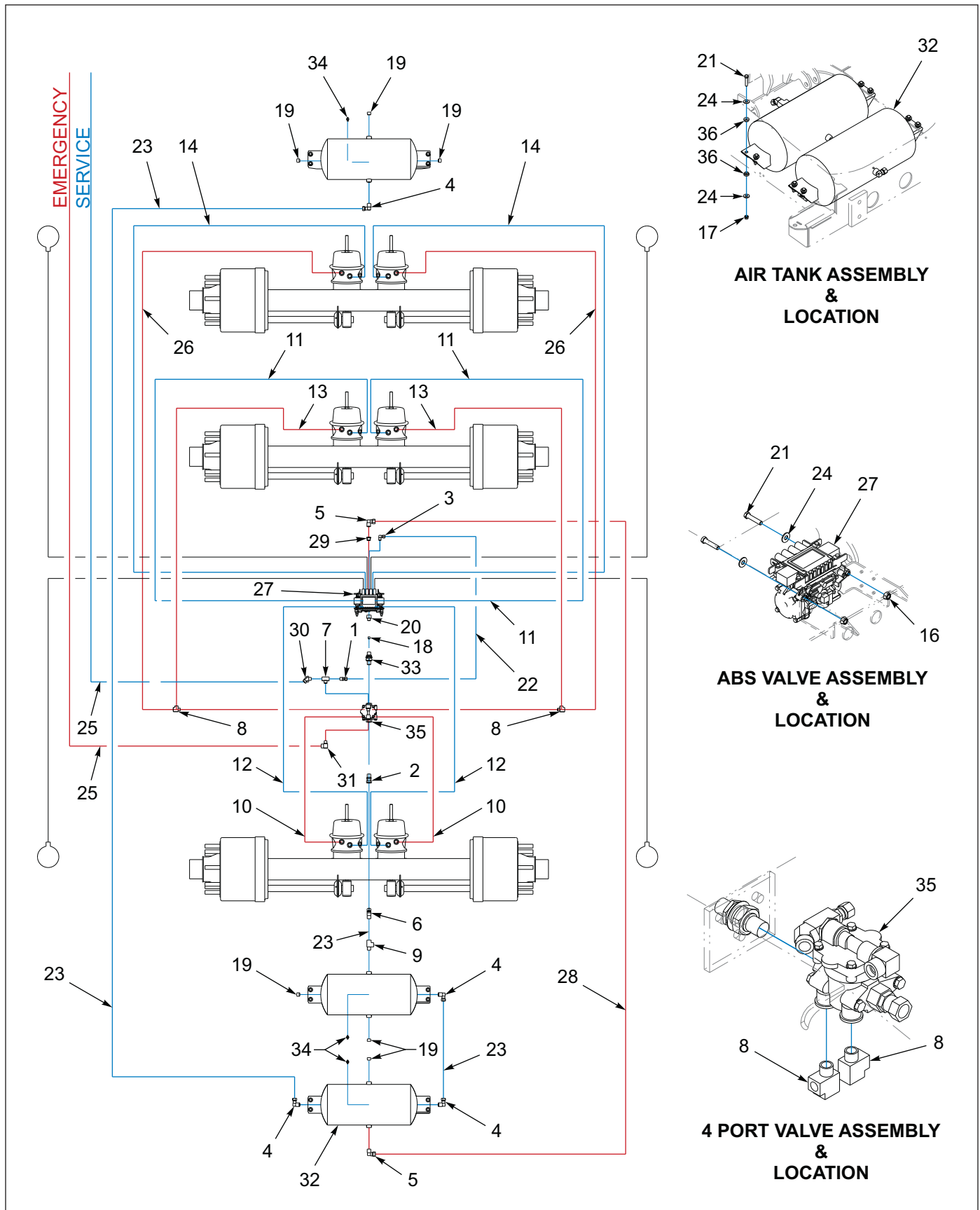


Figure 1-40: Air Brake System - 455B Spring Brake

Air Brake System - 455B Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	190329	SUSPENSION, 455A-102 SB LED	
	190331	SUSPENSION, 455A-CA 102 SB LED	
1	1-297-010007-12	FITTING AIR 3/8 TUBE TO 3/8 NPT	1
2	1-297-010007-15	FITTING, AIR 1/2 TUBE TO 3/8 NPT	1
3	1-297-010008-18	FITTING, AIR 90, 3/8 TUBE X 1/4 NPT	1
4	1-297-010008-24	FITTING, AIR 90, 1/2 TUBE TO 1/2 NPT	4
5	1-297-010008-26	FITTING, AIR 90, 5/8 TUBE TO 1/2 NPT	2
6	1-297-010013-16	FITTING, AIR 45	1
7	1-297-010017-03	FITTING, AIR PIPE, M/BR TEE 3/8	1
8	1-297-010018-03	FITTING, BRS PIPE ST TEE 3/8	2
9	1-297-010018-04	FITTING, 1/2 BRS PIPE ST TEE	1
10	1-384-010038024	HOSE, AIR 3/8 X 24	2
11	1-384-010038038	HOSE, AIR 3/8 X 38	2
12	1-384-010038060	HOSE, AIR 3/8 X 60	2
13	1-384-010038076	HOSE, AIR 3/8 X 76	2
14	1-384-010038084	HOSE, AIR 3/8 X 84"	2
15	1-394-010001	HOSE, ABRASION SLEEVE X 2 (NOT SHOWN)	2
16	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
17	1-512-010005-05	NUT, HEX SLFLKG, 3/8-16 UNC, GRB	12
18	1-560-010002-02	PLUG, PIPE 1/4 NPT	1
19	1-560-010002-04	PLUG, PIPE 1/2 NPT	6
20	1-560-010002-05	PLUG, PIPE 3/4-14 NPTF	1
21	1-654-010051-08	SCREW, HEX 3/8-16 UNC X 1-3/4 GR5	14
22	1-833-010002	TUBING, NYLON 3/8	10
23	1-833-010003	TUBING, NYLON 1/2	21
24	1-861-010032-11	WASHER, FLAT 3/8W	26
25	100949	HOSE, AIR 3/8 X 222 W/ 3/8 ENDS	2
26	107956	HOSE, AIR 3/8 X 136 W/3/8 ENDS	2
27	114586	BRAKE KIT, ABS 4S/2M (SEE PAGE 1-76)	1
28	117304	TUBING, NYLON 5/8 OD	7
29	118-2659-9	BUSHING, 1/2NPT X 3/4NPT STL	1
30	2088-6-6S	ADAPTER, 45	1
31	2089-6-6S	ADAPTER, 903/8MPT X 3/8FPT	1
32	3-780-010002	TANK, AIR 9.5 X 55.2, .5NPT PORTS	3
33	55B61	FRAME UNION	1
34	56D4	COCK, DRAIN AIR TANK VEL036019	3
35	758-181	VALVE TASK, 4 PORT	1
36	805-2	BUSHING, STEP	24

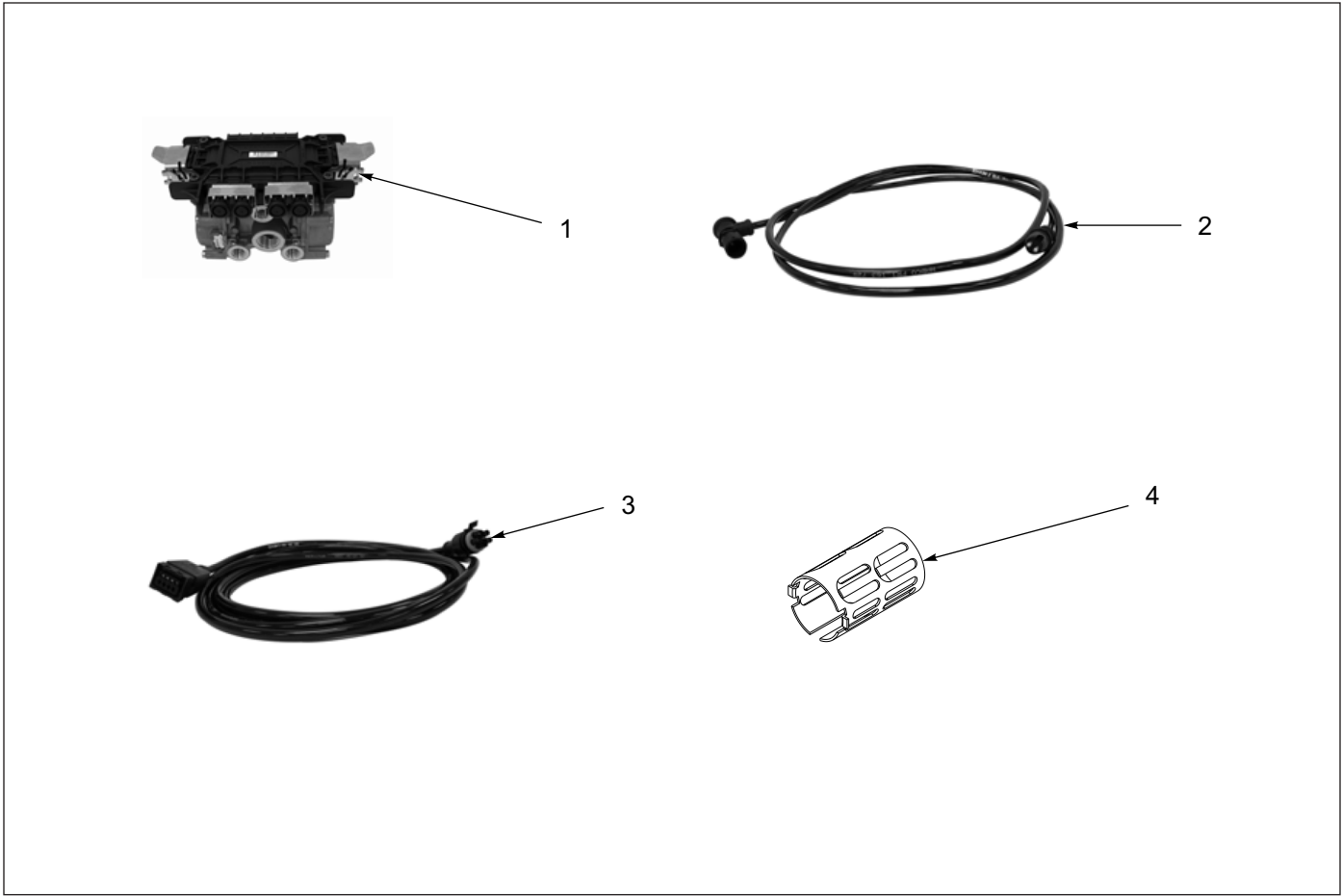


Figure 1-41: ABS Brake Kit - Rockwell

ABS Brake Kit - Rockwell

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	ABS BRAKE KIT 4S/2M	
	114586	ABS BRAKE KIT 4S/2M-TRI/SPRD	
1	114588	ECU/VALVE ASSEMBLY	1
2	101848	SENSOR EXTENSION CABLE - 6 FT (USED W/ 114584)	4
	103861	SENSOR EXTENSION CABLE - 10 FT (USED W/ 114586)	4
3	147464	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1
4	101849	SPRING CLIP, ABS SENSOR	2
	101847	ABS SENSOR CABLE-4M 90° (1FT) (NOT SHOWN) (SEE PAGES 1-58 & 1-60 FOR REFERENCE)	2

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Tire Inflation System

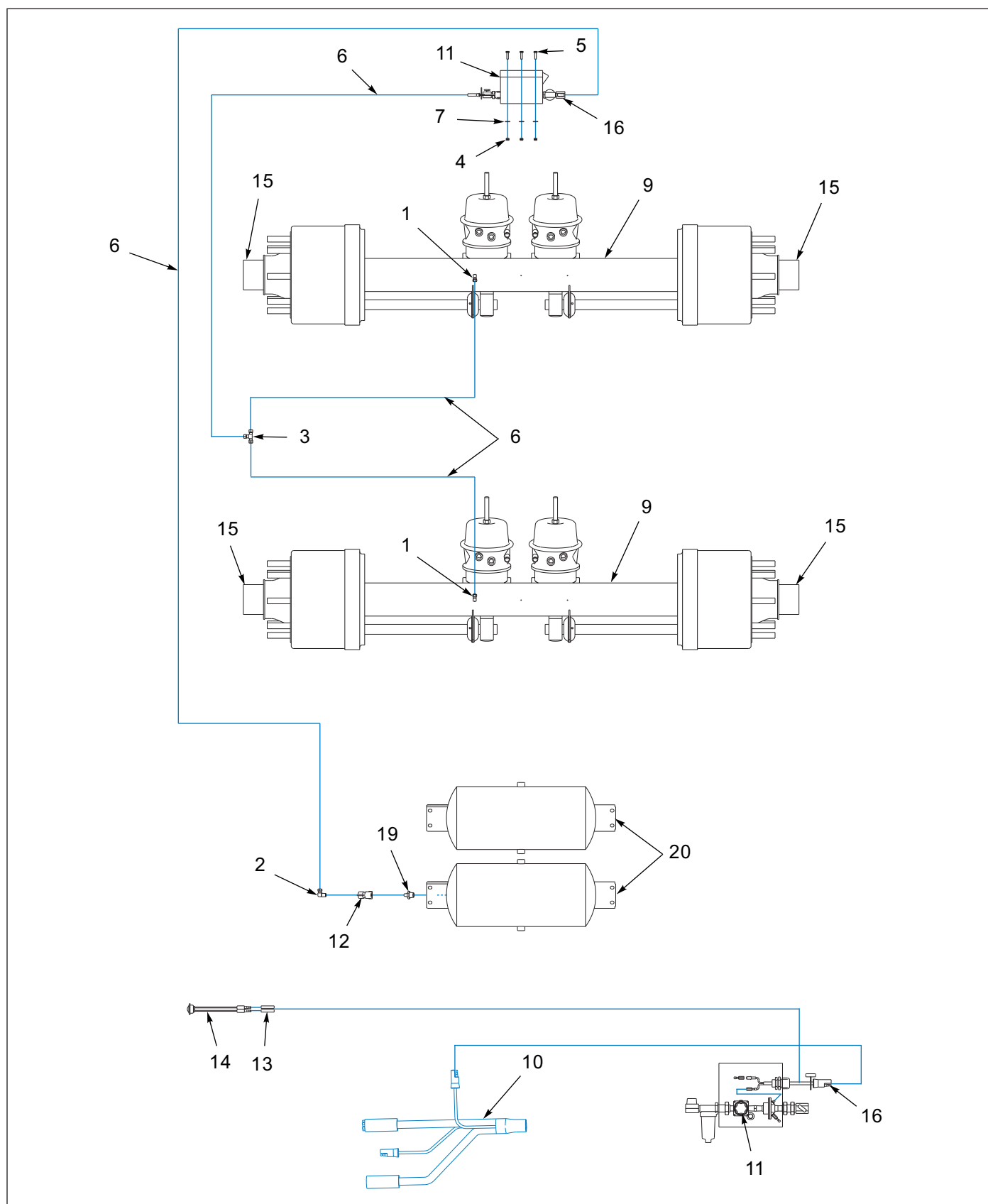


Figure 1-42: Thermalert Tire Inflation System - 440B

Tire Inflation System - 440B

ITEM	PART NO.	DESCRIPTION	QTY.
	212400	SUSP 440B 2512-70.5 THERM TIS	
1	1-297-010008-05	FITTING, AIR, 90, 1/4TUBEX1/8NPT	REF
2	1-297-010008-07	FITTING, AIR, 90, 1/4 TUBEX1/4NPT	REF
3	1-297-010010-01	FITTING, AIR, UNION, TEE 1/4	REF
4	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC	3
5	1-654-010047-06	SCREW, HEX, 1/4-20UNCX1 GR5	3
6	1-833-010001	TUBING, NYLON 1/4 OD	REF
7	1-861-010032-07	WASHER, FLAT, ZP/CD 1/4W	3
8	115629	LOCKTITE 593 (NOT SHOWN)	REF
9	121077	AXLE WDLMT 2512 SPG 70.5X36	REF
10	143103	HARNESS E-CHAIN GROTE	REF
11	168593	THERMALERT TIS 2 AXLE	1
12	168610	THERMALERT PRESSURE PROTECTION VALVE	REF
13	168613	THERMALERT WIRING HARNESS	1
14	183413	LIGHT WHT LED .75 CL/MK GROTE	1
15	197613	HUB CAP MTIS OIL AXLE	4
16	202207	HARNESS, MOD MTIS POWER HARNESS	1
17	205836	ORANGE WARNING DECAL MTIS (NOT SHOWN)	1
18	205837	YELLOW WARNING DECAL MTIS (NOT SHOWN)	2
19	2083-8-4S	NIPPLE, 1/4NPT X 1/2NPT	1
20	3-780-010002	TANK, AIR, 9.5X22.5	2

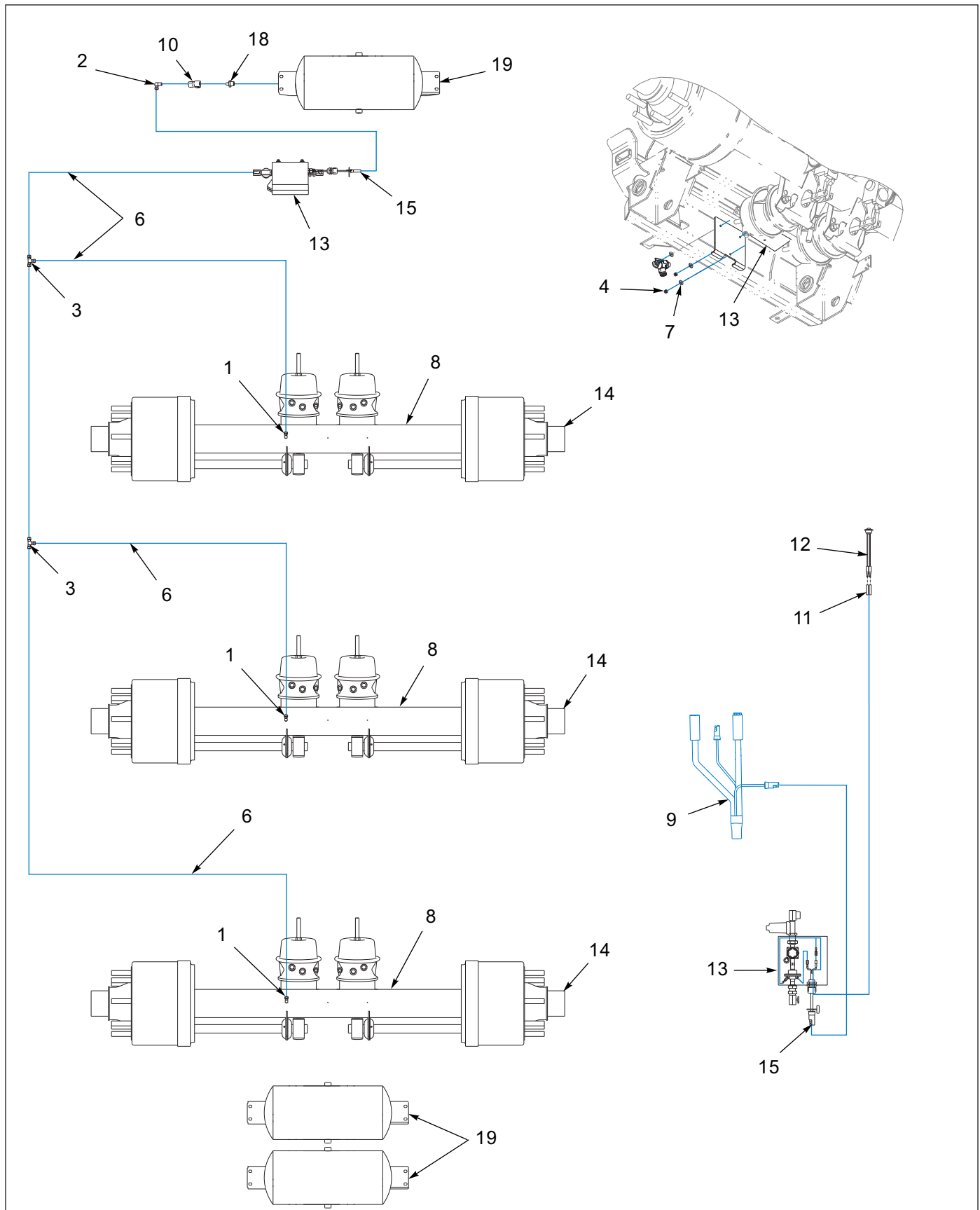


Figure 1-43: Thermalert Tire Inflation System - 455B

Tire Inflation System - 455B Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	197322	SUSP 455B 2512-70.5 THERM TIS	
1	1-297-010008-05	FITTING, AIR, 90, 1/4TUBEX1/8NPT	3
2	1-297-010008-07	FITTING, AIR, 90, 1/4 TUBEX1/4NPT	1
3	1-297-010010-01	FITTING, AIR, UNION, TEE 1/4	2
4	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC	3
5	1-654-010047-04	SCREW, HEX, 1/4-20UNCX1 GR5	3
6	1-833-010001	TUBING, NYLON 1/4 OD	REF
7	1-861-010032-07	WASHER, FLAT, ZP/CD 1/4W	3
8	121077	AXLE WLDMT 2512 SPG 70.5 X 36	3
9	143103	HARNESS E-CHAIN GROTE	1
10	168610	THERMALERT PRESSURE PROTECTION VALVE	1
11	168613	THERMALERT WIRING HARNESS	1
12	183413	LIGHT WHT LED .75 CL/MK GROTE	1
13	195395	THERMALERT TIS 3 AXLE	1
14	197613	HUB CAP MTIS OIL AXLE	6
15	202207	HARNESS MOD, MTIS POWER HARNESS	1
16	205836	ORANGE WARNING DECAL, MTIS (NOT SHOWN)	1
17	205837	YELLOW WARNING DECAL, MTIS (NOT SHOWN)	2
18	2083-8-4S	NIPPLE 1/4NPT X 1/2NPT	1
19	3-780-010002	TANK, AIR 9.5X22.5, .5NPT PORTS	3

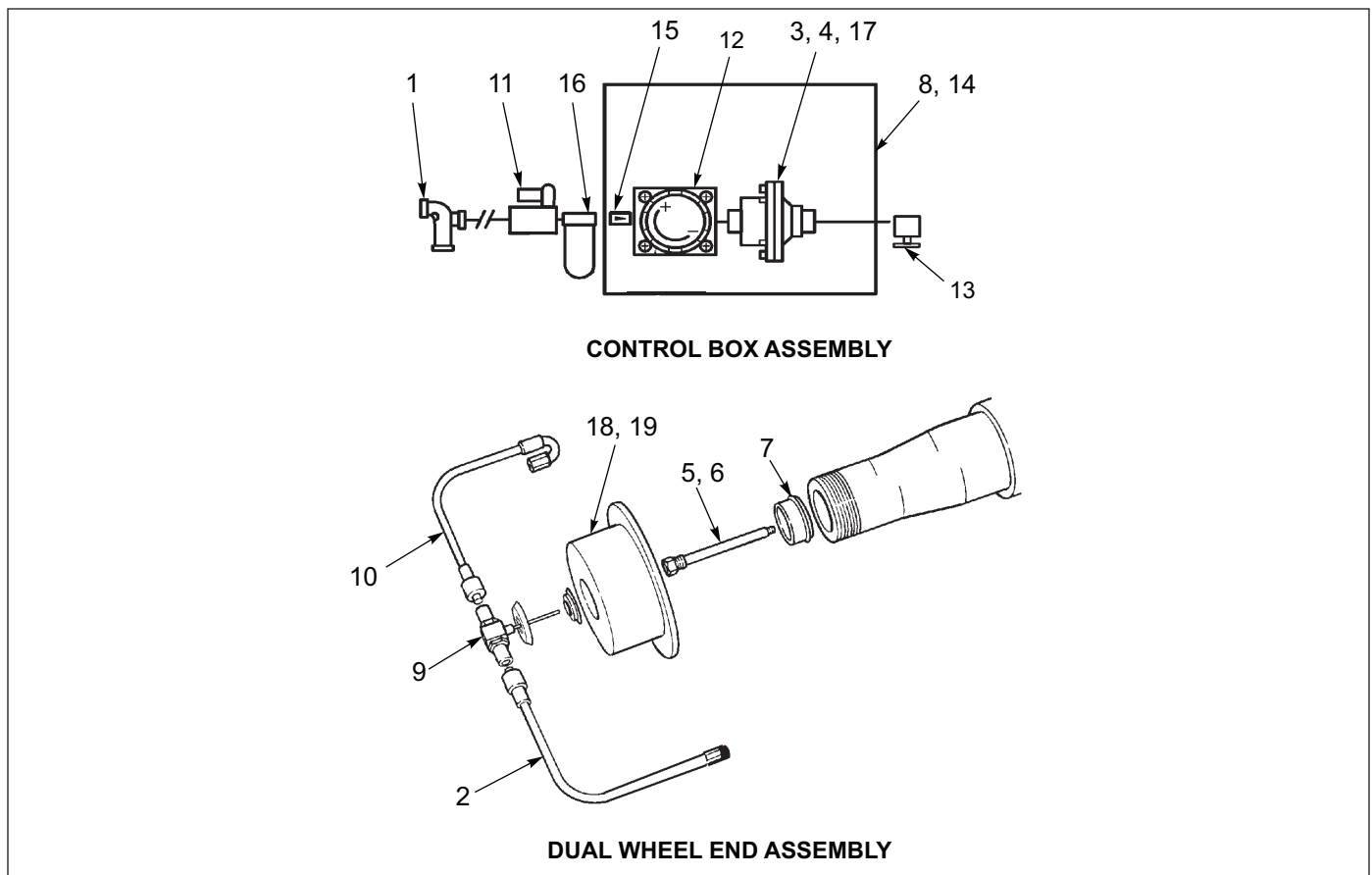


Figure 1-44: Tire Inflation System -Thermalert (3 SAF Axles)

Tire Inflation System - Thermalert (3 SAF Axles)

ITEM	PART NO.	DESCRIPTION	QTY.
	176076	THERMALERT, TIRE TIS, TRIPLE SAF AXLES	
1	168610	PRESSURE PROTECTION VALVE BAG	1
2	168612	LONG HOSE	1
3	168613	WIRING HARNESS	1
4	168614	LIGHT BAG ASSEMBLY	1
5	168615	STATOR BOX	1
6	168616	1/4 NPT STATOR AND FILTER ASSEMBLY	1
7	168617	PRESS PLUG ASSEMBLY 1.75	1
8	168618	CONTROL BOX	1
9	178592	THRU TEE ASSEMBLY 3.50"	1
10	180222	SHORT FLEX HOSE	1
11	180223	SHUT-OFF VALVE	1
12	180224	PRESSURE REGULATOR VALVE	1
13	180225	PETCOCK	1
14	180226	CONTROL BOX LID	1
15	180227	BULKHEAD/CHECK VALVE	1
16	180228	SELF-DRAINING FILTER	1
17	180229	FLOW SENSING SWITCH	1
18	197613	HUB CAP FOR MTIS ON OIL AXLES (ITEM SOLD SEPARATELY)	1
19	197318	HUB CAP FOR MTIS ON GREASE AXLES (ITEM SOLD SEPARATELY)	1

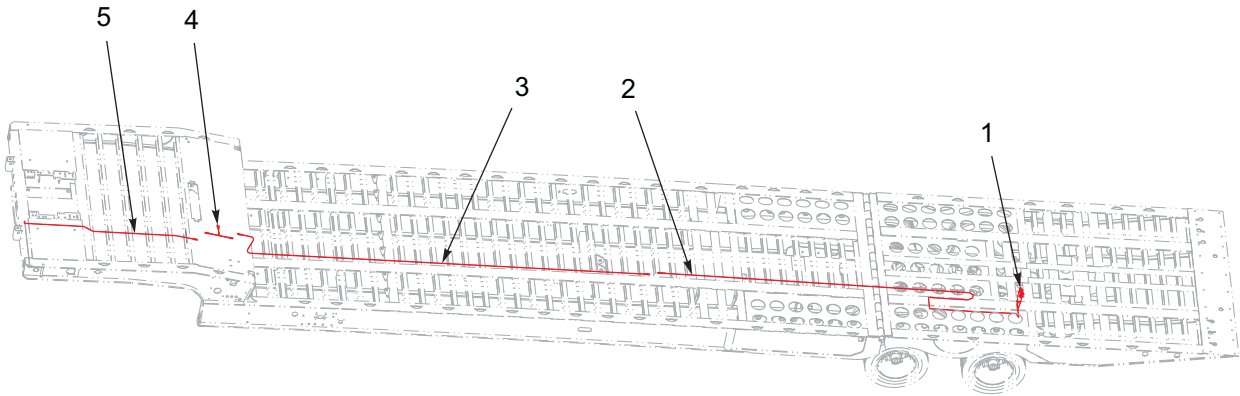
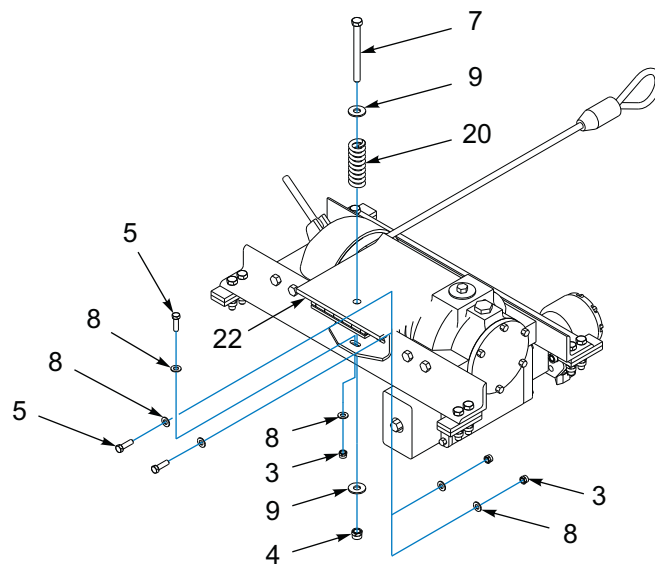


Figure 1-45: Tire Inflation System - Harness Kit

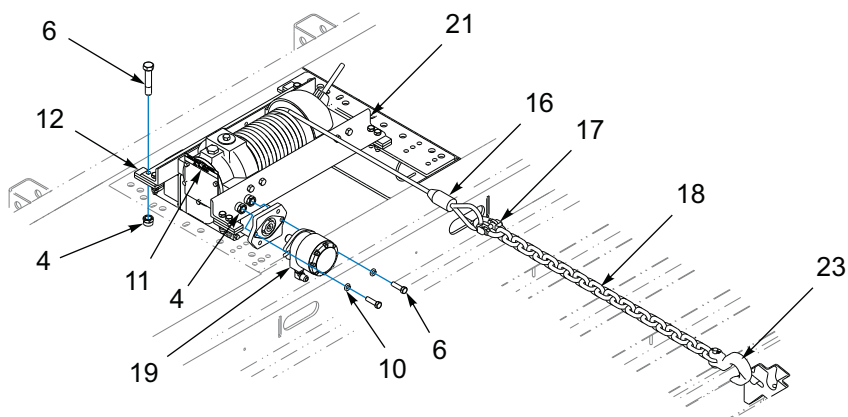
Tire Inflation System - Harness Kit

ITEM	PART NO.	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	
1	157703	TIRE INFLATION SYSTEM 3AX	REF
	157702	TIRE INFLATION SYSTEM 2AX	REF
2	176476	HARNESS, TIRE INFLATION LD25S	1
3	176477	HARNESS, TIRE INFLATION LD30	1
4	176478	HARNESS, TIRE INFLATION LDPWR	1
5	176479	HARNESS, TIRE INFLATION LD15L	1

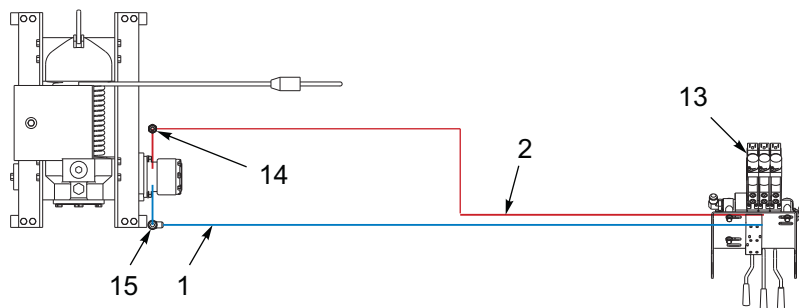
Winches



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-46: Winch Installation - 12K Spring Tension (BRADEN)

Winch Installation - 12K Spring Tension (BRADEN)

ITEM	PART NO.	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)	REF
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	REF
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 1-94)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010122	WINCH ASSEMBLY, 12,000LB.	1
22	3-873-010124	WINCH TENSIONER, 20K BRADEN SPRING	1
23	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

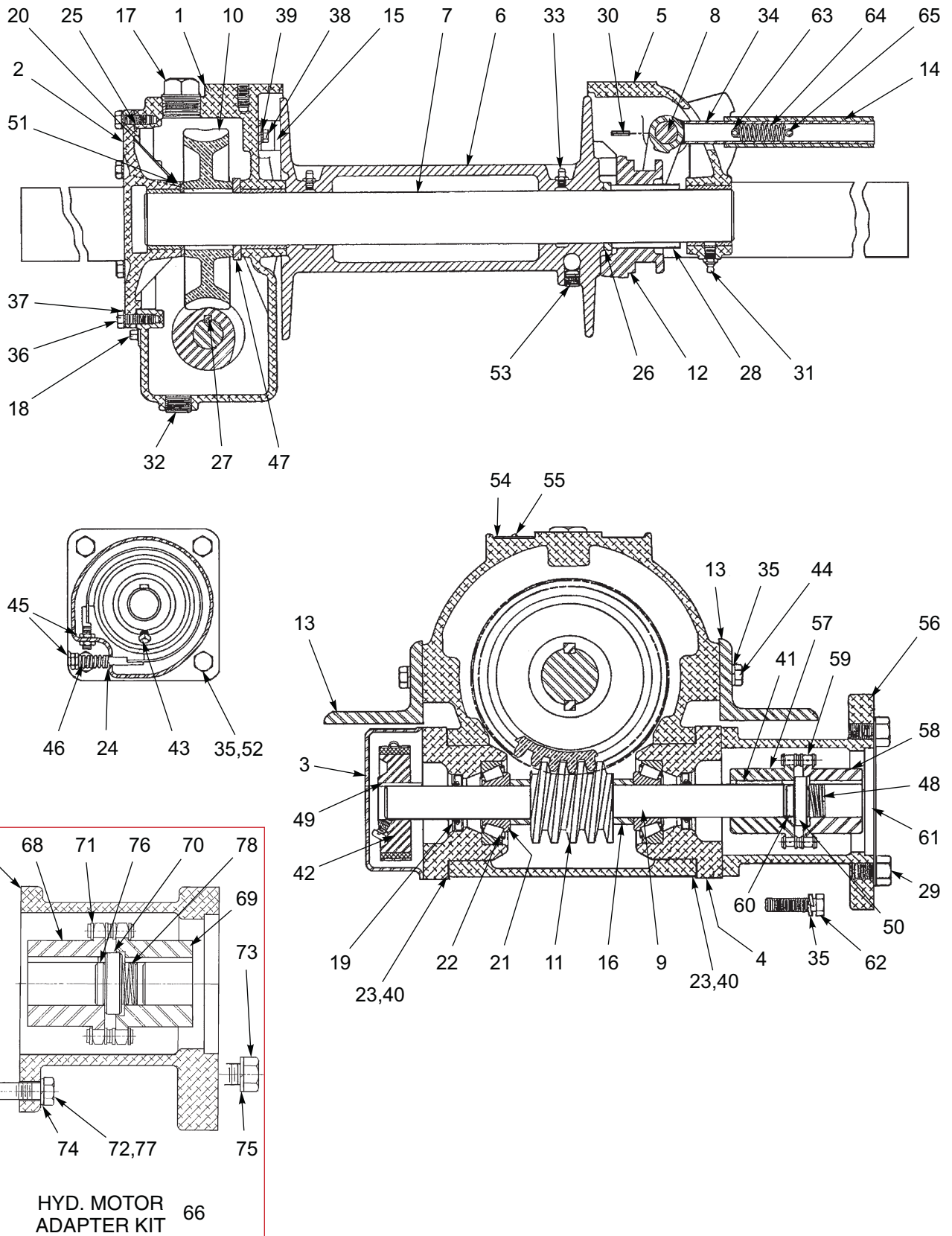


Figure 1-47: Winch Items - 12,000 Lb. (BRADEN)

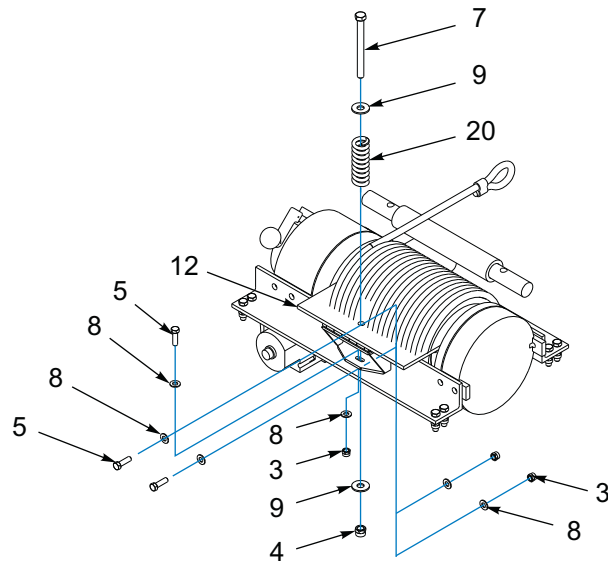
Winch Items - 12,000Lb. (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010122		WINCH ASSEMBLY 12K - BRADEN	
1	81006	81006	WORM HOUSING ASSEMBLY	1
1A	18078	18078	BUSHING	1
2	81009	81009	COVER ASSEMBLY WORM HOUSING	1
2A	11368	11368	BUSHING	1
3	18032	18032	HOUSING SAFETY BRAKE	1
4	23303	23303	CONTAINER BEARING	2
5	81530	81530	LEG ASSEMBLY BEARING	1
6	11128	11128	DRUM CABLE	1
7	11129	11129	DRUM SHAFT CABLE	1
8	11130	11130	SHIFTER SHAFT	1
9	23470	23470	SHAFT WORM	1
10	11144	11144	GEAR WORM LEFT HAND	1
11	11142	11142	WORM LEFT HAND	1
12	18039	18039	SLIDING CLUTCH	1
13	22752	22752	ANGLE BASE	2
14	12817	12817	SHIFTER HANDLE	1
15	81025	81025	BRAKE DRAG	1
16	11308	11308	SPACER WORM	2
17	----	22775	PLUG PIPE	1
18	18009	18009	PLUG PIPE	1
19	18026	18026	SEAL GREASE	2
20	11117	11117	KEY WORM GEAR	2
21	18015	18015	CONE BEARING	2
22	18016	18016	CUP BEARING	2
23	18027	18027	GASKET	3
24	21925	21925	BAND BRAKE	1
25	11133	11133	WORM HOUSING COVER GASKET	3
26	18019	18019	RETAINER RING	1
27	18030	18030	KEY WORM	1
28	18020	18020	KEY CLUTCH	2
29	----	10009	CAPSCREW	2
30	11837	11837	ROLLPIN	2
31	18047	18047	FITTING GREASE	1
32	19045	19045	PLUG PIPE	1
33	----	11799	FITTING GREASE	2
34	13839	13839	SHIFTER FORK	1
35	----	18003	WASHER LOCK	16
36	----	11767	CAPSCREW	6
37	----	11011	WASHER LOCK	6
38	13005	13005	CAPSCREW	2
39	----	12780	WASHER LOCK	2
40	18024	18024	BEARING CONTAINER GASKET	3
41	18044	18044	KEY	1
42	18028	18028	DRUM BRAKE	1
43	12075	12075	SETSCREW	1
44	----	21961	CAPSCREW	12
45	13468	13468	JAM NUT	4

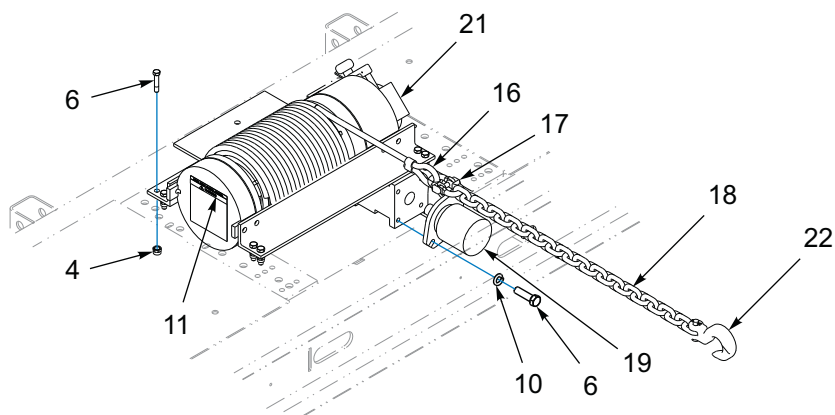
Winch Items - 12,000Lb. (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
46	18029	18029	BRAKE BAND SPRING	1
47	11240	11240	RETAINER RING	1
48	----	23353	SPRING	1
49	10078	10078	KEY	1
50	23078	23078	SPACER	1
51	13680	13680	THRUST RING	1
52	----	22703	CAPSCREW	4
53	----	24032	SETSCREW	1
54	----	23310	WARNING PLATE	1
55	----	11842	DRIVE SCREW	2
56	23079	23079	MOTOR ADAPTER	1
57	23081	23081	COUPLING HALF - WORM SHAFT	1
58	23083	23083	COUPLING HALF - MOTOR SHAFT	1
59	13424	13424	ROLLER CHAIN	1
60	23085	23085	SPACER	1
61	----	21959	SHIPPING COVER	1
62	----	22704	CAPSCREW	4
63	13028	13028	ROLLPIN	1
64	18002	18002	SPRING	1
65	18056	18056	ROLLPIN	1
66	61333	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH (ITEMS 67- 78)	1
67	23079	23079	ADAPTER, MOTOR	1
68	23081	23081	COUPLING HALF, WINCH	1
69	23083	23083	COUPLING HALF, MOTOR	1
70	23078	23078	SPACER, CONSTANT	1
71	13424	13424	CHAIN ROLLER	1
72	----	----	CAPSCREW	4
73	----	----	CAPSCREW	4
74	----	27152	LOCKWASHER	4
75	----	11026	LOCKWASHER	4
76	----	23085	SPACER	1
77	----	----	CAPSCREW	4
78	110452	23353	SPRING SPACER	1

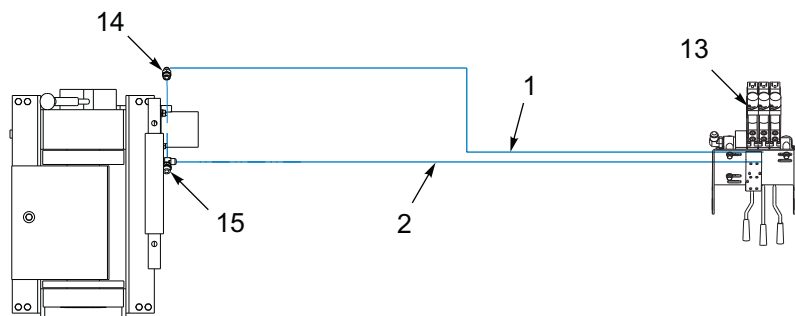
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SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-48: Winch Installation - 20K Spring Tension (BRADEN)

Winch Installation - 20K Spring Tension (BRADEN)

ITEM	PART NO.	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 (SEE PAGE 1-26)	REF
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	REF
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 (1-106)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010123	WINCH ASSEMBLY, 20,000LB. (SEE PAGE 1-78)	1
22	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

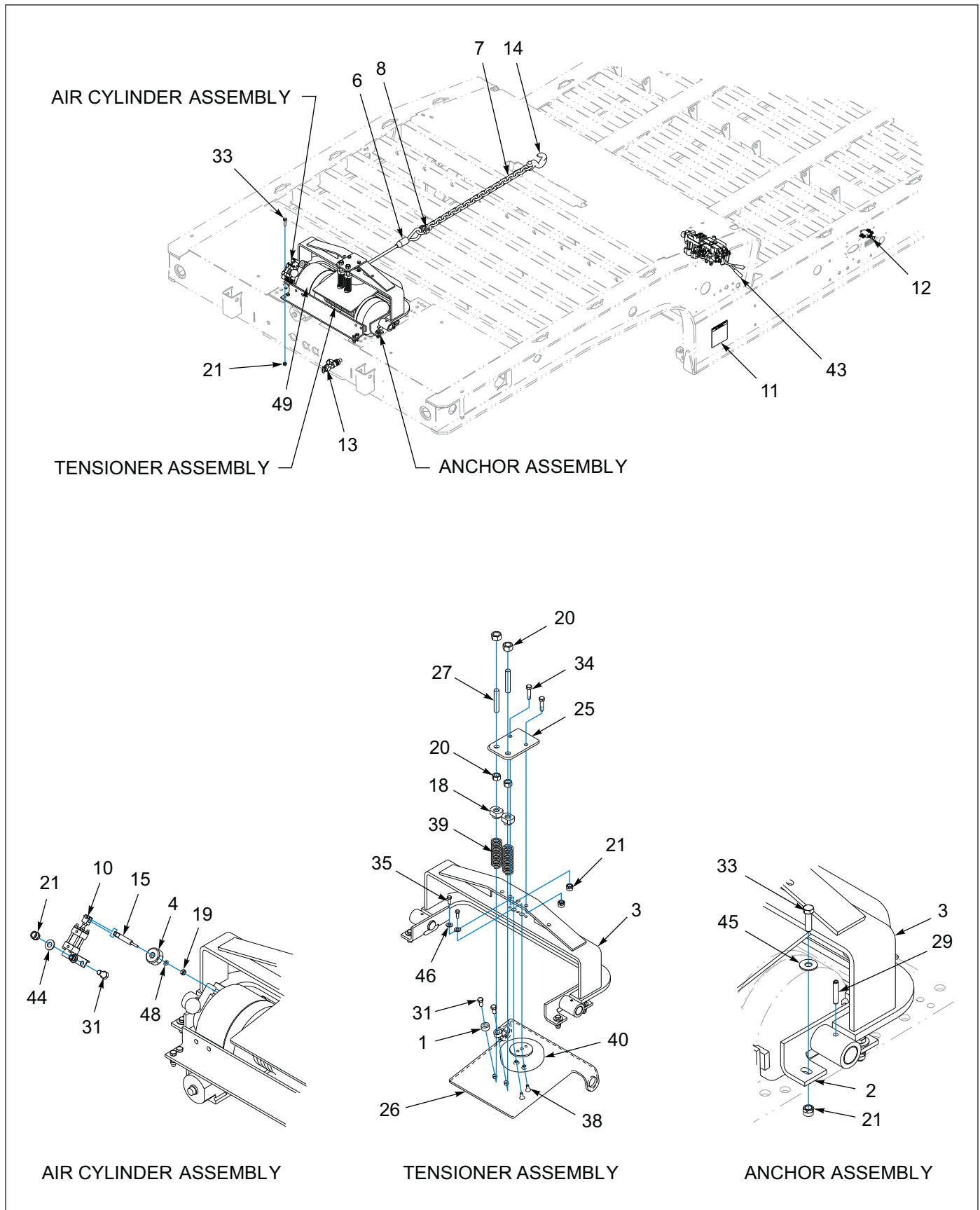


Figure 1-49: 20K Air Tension/Release (BRADEN) (1 of 3)

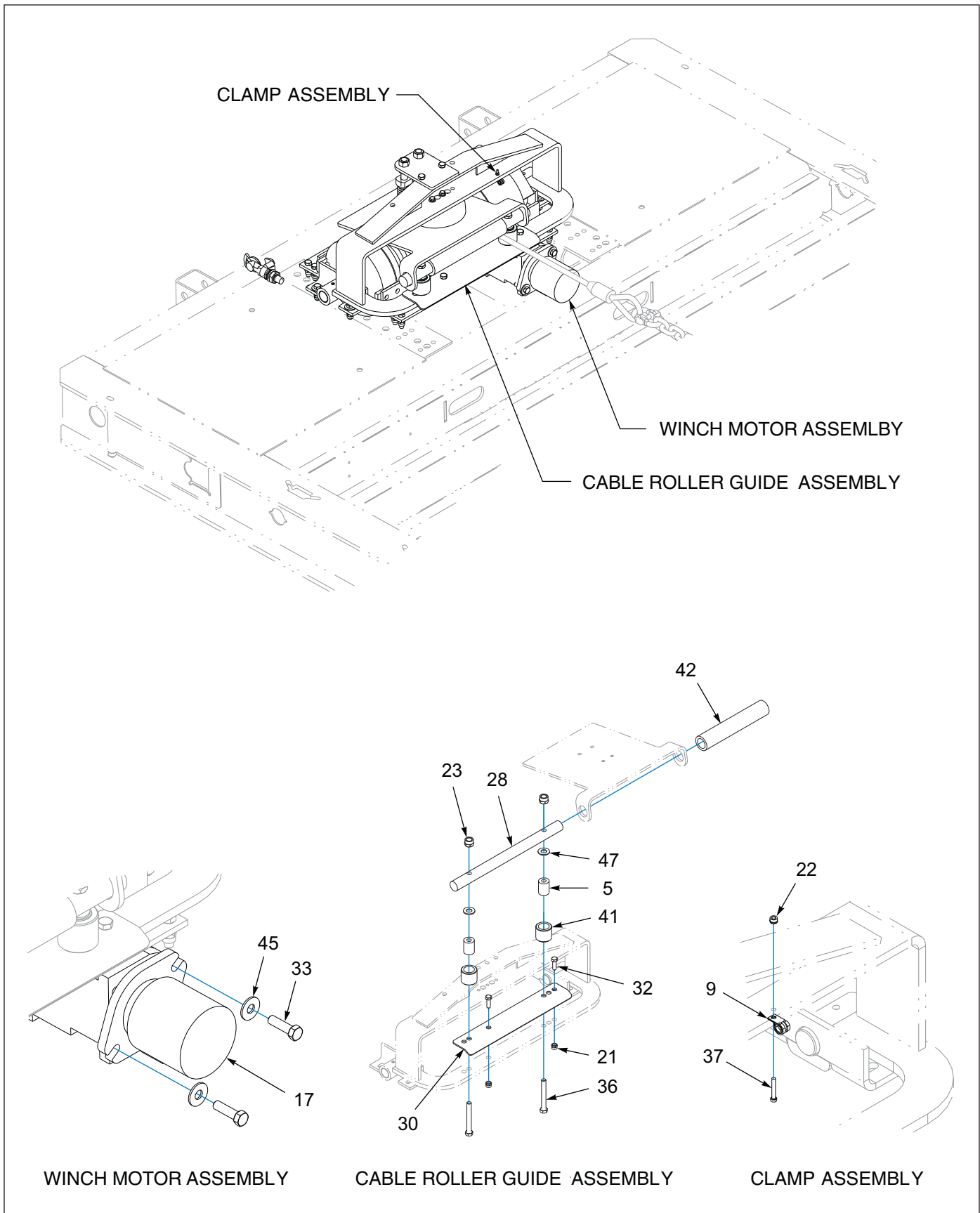


Figure 1-50: 20K Air Tension/Release (BRADEN) (2 of 3)

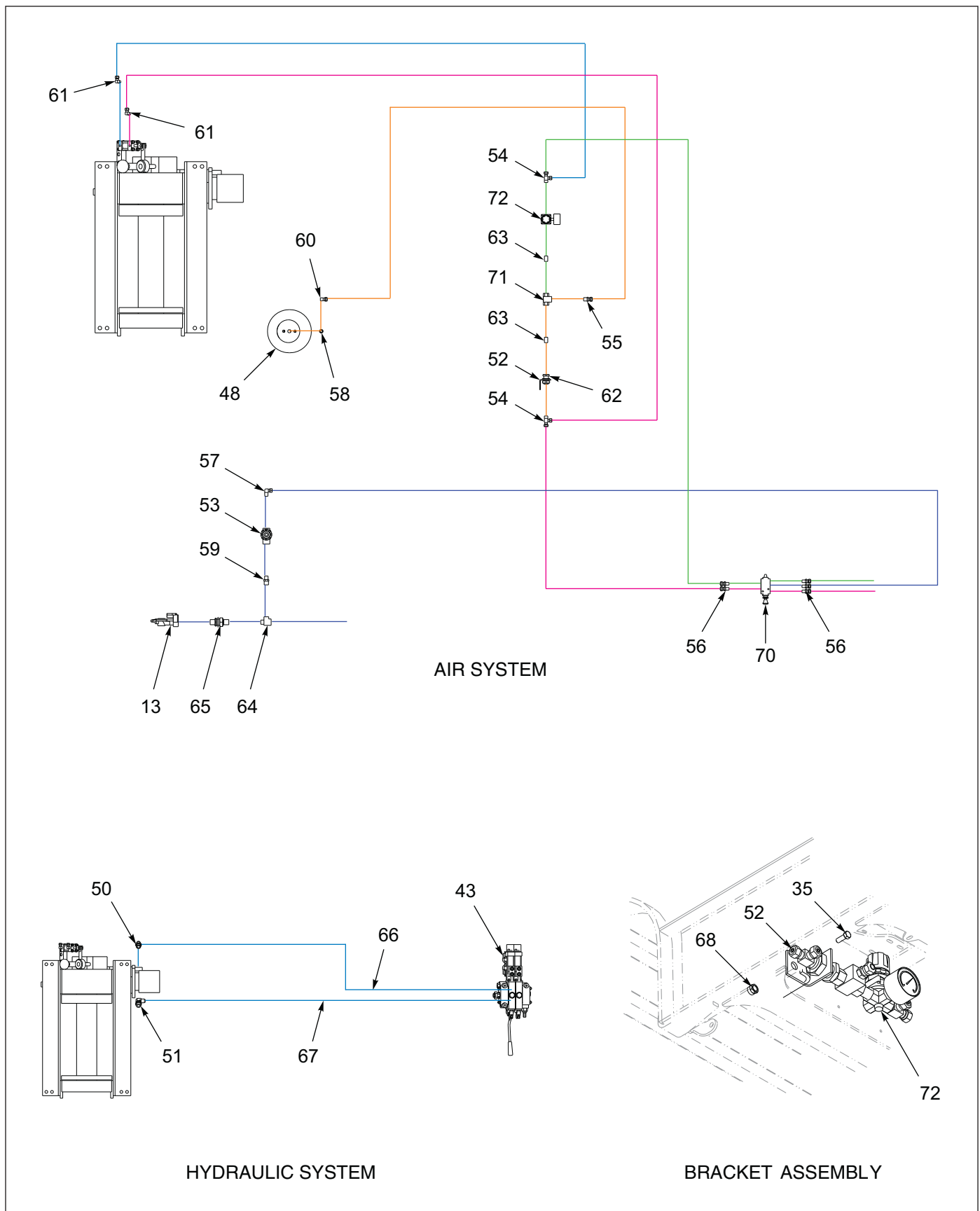


Figure 1-51: 20K Air Tension/Release (BRADEN) (3 of 3)

Winch Installation - 20K Air Tension/Release (BRADEN)

ITEM	PART NO.	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	REF
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 1-92)	1
11	100600	DECAL, WARNING WINCH	1
12	135184	DECAL, WINCH FREE SPOOL (NOT SHOWN)	1
13	108801	GLAD HAND, RED AIR	REF
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 1-94)	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	REF
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 - 20K Air Tension/Release (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
48	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
49	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 1-90)	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	REF
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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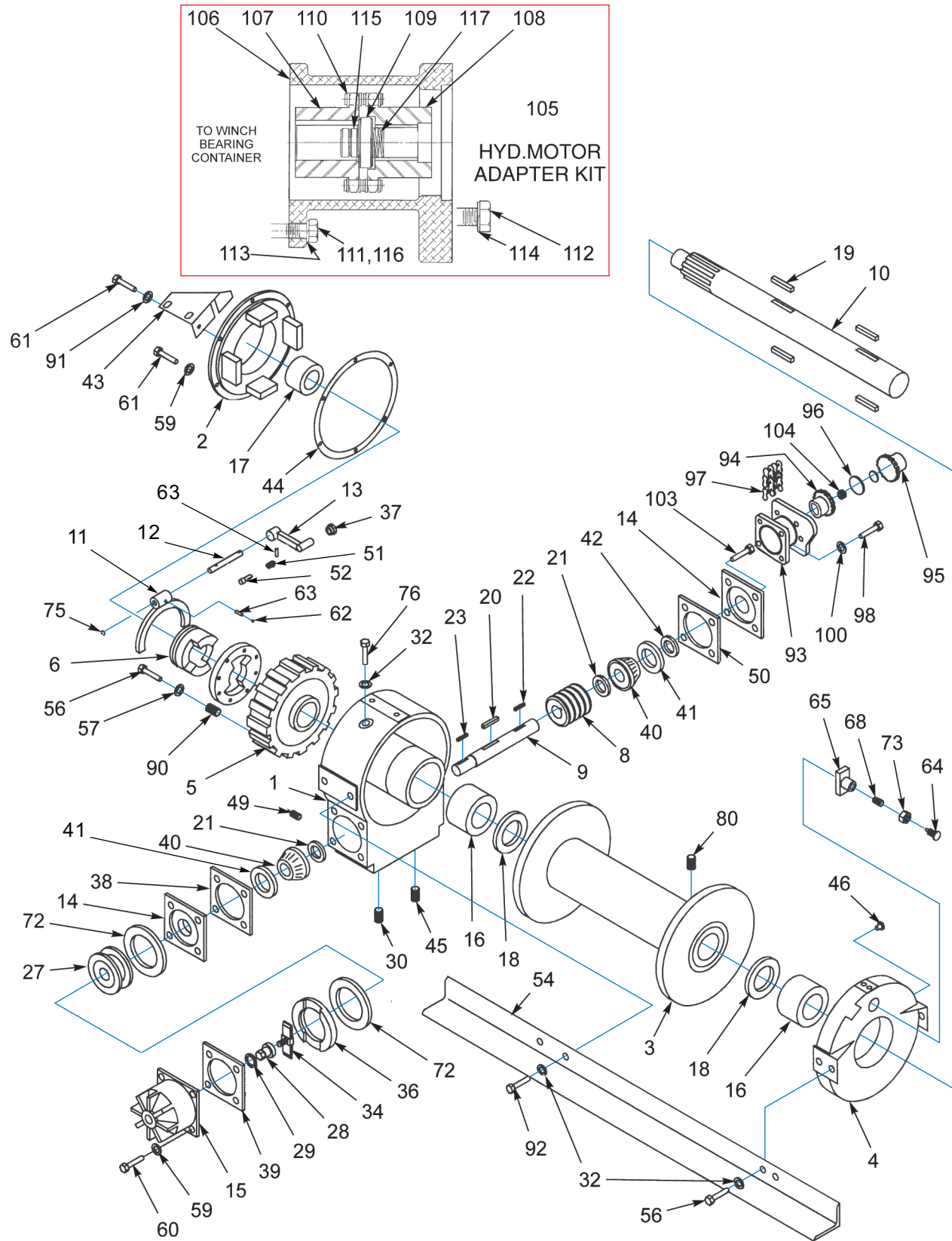


Figure 1-52: Winch Items - 20,000Lb. (BRADEN)

Winch Items - 20,000Lb. (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010123		WINCH 20,000# W/BOLT-ON ANGLES	
1	81078	81078	WORM HOUSING ASSEMBLY	1
2	106956	81082	COVER ASSEMBLY WORM HOUSING	1
3	----	101142	DRUM CABLE	1
4	81077	81077	LEG ASSEMBLY BEARING	1
5	11434	11434	WORM, GEAR RIGHT	1
6	11421	11421	CLUTCH, SLIDING	1
7	11419	11419	DRIVE, CLUTCH	1
8	154166	11404	WORM RIGHT	1
9	----	11405	SHAFT, WORM	1
10	139479	11414	SHAFT, CABLE DRUM	1
11	11440	11440	FORK SHIFTER	1
12	11441	11441	SHAFT SHIFTER	1
13	26976	26976	HANDLE SHIFTER	1
14	124549	11427	CONTAINER BEARING	2
15	----	11445	COVER WORM BRAKE	1
16	18035	18035	BUSHING	2
17	11425	11425	BUSHING	1
18	11420	11420	RING, RETAINING	2
19	163472	22055	DRUM, KEY CABLE	4
20	11402	11402	KEY, WORM	1
21	11407	11407	SPACER, WORM	2
22	23367	23367	KEY, SPROCKET	1
23	10078	10078	KEY, ROTOR	1
27	81080	81080	ROTOR ASSEMBLY, BRAKE	1
28	11599	11599	ADJUSTING NUT, WORM BRAKE	1
29	12465	12465	O-RING	1
30	----	19014	PLUG, FILLER	1
32	----	11026	WASHER, LOCK	10
34	81081	81081	SPRING ASSEMBLY, SAFETY BRAKE	1
36	11431	11431	PLATE, PRESSURE	1
37	18022	18022	KNOB, SHIFTER	1
38	11429	11429	GASKET	4
39	11446	11446	GASKET	2
40	18033	18033	BEARING CONE	2
41	18034	18034	BEARING CUP	2
42	12073	12073	SEAL GREASE	1
43	12783	12783	BRACKET SHIFTER	1
44	11411	11411	COVER GASKET HOUSING	1
45	19045	19045	PLUG DRAIN	1
46	18047	18047	FITTING GREASE	1
48	----	22775	PLUG VENT	1
49	----	18009	PLUG LEVEL	1
50	11430	11430	GASKET	4
51	11310	11310	SPRING SHIFTER KNOB	1
52	11309	11309	STEM SHIFTER KNOB	1
54	----	28942	ANGLE FRONT BASE	1
55	----	28943	ANGLE REAR BASE (NOT SHOWN)	1

Winch Items - 20,000Lb. (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
56	----	13938	CAPSCREW	16
57	----	12781	WASHER, LOCK	8
58	----	21044	CAPSCREW	4
59	----	11025	WASHER, LOCK	3
60	----	22695	CAPSCREW	4
61	----	21964	CAPSCREW	6
62	12146	12146	PLUG, EXPANSION	A/R
63	13028	13028	ROLLPIN	A/R
64	11398	11398	SCREW, ADJUSTING	1
65	88005	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	11426	DISC, FRICTION	2
73	11791	11791	NUT, JAM	1
75	12767	12767	PLUG, EXPANSION	A/R
76	----	22729	CAPSCREW	2
77	----	23245	SAE PLATE-AMU7-16F (NOT SHOWN)	1
78	----	23310	PLATE, WARNING (NOT SHOWN)	1
79	----	11842	SCREW, DRIVE (NOT SHOWN)	4
80	139478	12228	SCREW, SET	1
90	----	11435	INSERT THREAD	8
91	----	11014	LOCKWASHER	1
92	----	22697	CAPSCREW (NOT SHOWN)	5
93	23144	23144	ADAPTER - MOTOR	1
94	23081	23081	COUPLING HALF-WINCH	1
95	----	23142	COUPLING HALF-MOTOR	1
96	23078	23078	SPACER - CONSTANT	1
97	13424	13424	ROLLER, CHAIN	1
98	----	22704	CAPSCREW	4
99	----	13413	CAPSCREW (NOT SHOWN)	4
100	----	18003	LOCKWASHER	4
101	----	11026	LOCKWASHER (NOT SHOWN)	4
102	----	23183	SPACER - VARIABLE	2
103	----	22703	CAPSCREW	4
104	----	23353	SPRING - SPACER	1
105	----	61344	HYD. MOTOR ADAPTER KIT, 20,000# WINCH (ITEMS 106-117)	1
106	23144	23144	ADAPTER, MOTOR	1
107	23081	23081	COUPLING HALF, WINCH	1
108	110448	23142	COUPLING HALF, MOTOR	1
109	23078	23078	SPACER, CONSTANT	1
110	13424	13424	CHAIN ROLLER	1
111	----	----	CAPSCREW	4
112	----	----	CAPSCREW	4
113	----	27152	LOCKWASHER	4
114	----	11026	LOCKWASHER	4
115	110451	23183	SPACER	1
116	----	----	CAPSCREW	4
117	110452	23353	SPRING SPACER	1

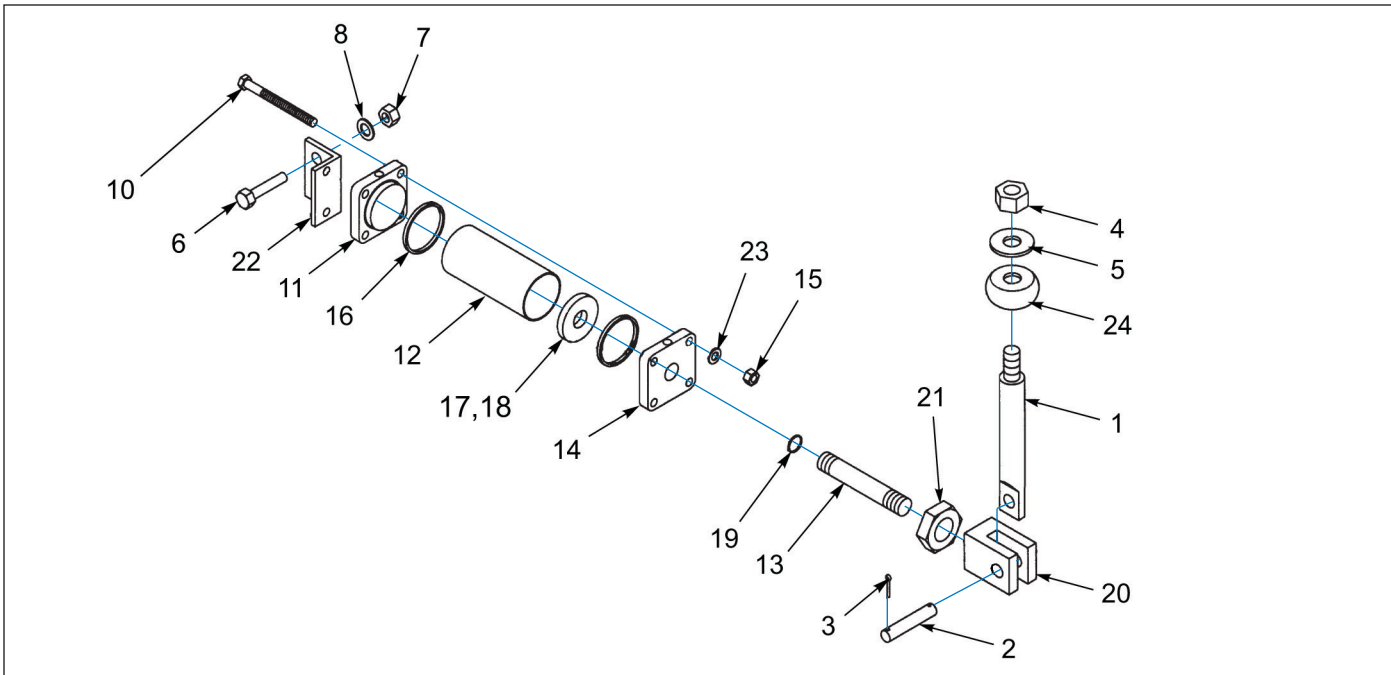


Figure 1-53: Winch - Air Shift Cylinder

Winch - Air Shift Cylinder

ITEM	PART NO.	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
	----	3109	O-RING KIT FOR CYLINDER	

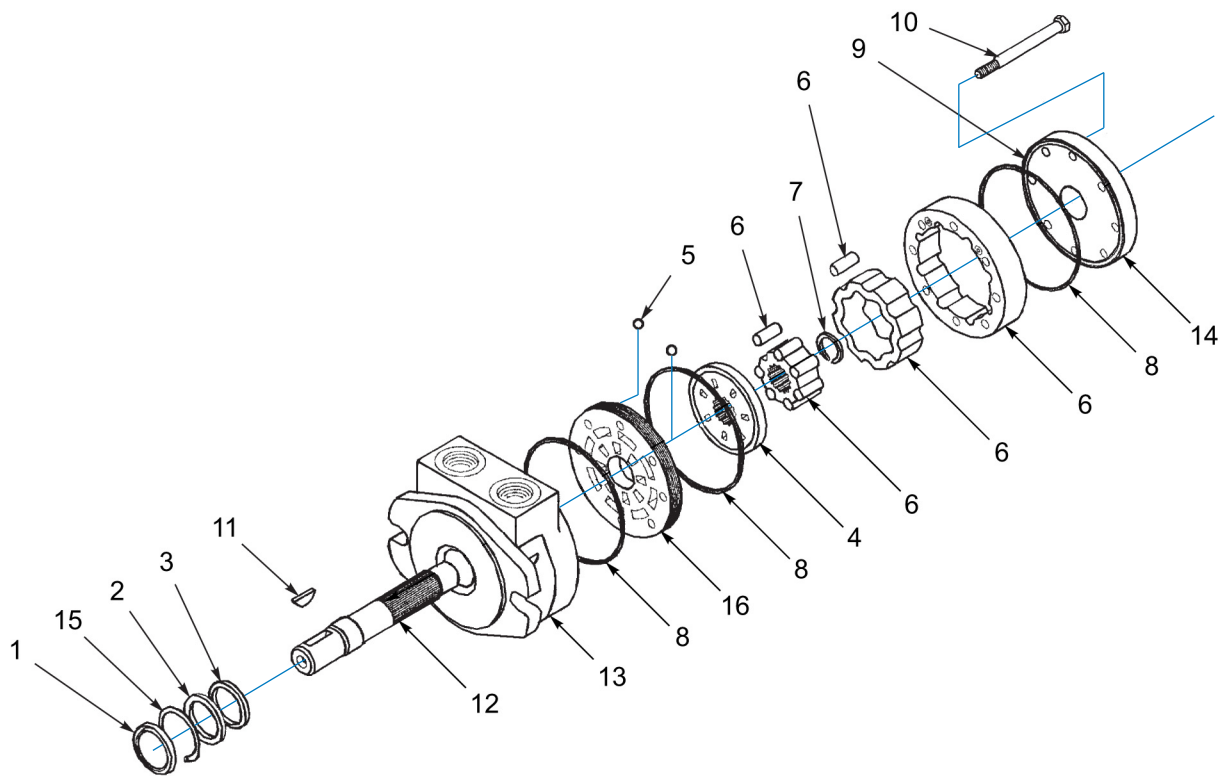


Figure 1-54: Winch - Motor Assembly

Winch - Motor Assembly

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-481-010006		MOTOR, HYDRAULIC - 12K WINCH	
	3-481-010007		MOTOR, HYDRAULIC - 20K WINCH	
1	----	2183	SEAL DUST	1
2	----	2177	BACK-UP RING	1
3	----	2175	SEAL LIP	1
4	----	1644	ROTARY VALVE	1
5	----	1021	CHECK VALVE BALL	2
6	----	1004-6	IGR ASSEMBLY - 20K WINCH	1
6	----	1004-3	IGR ASSEMBLY - 12K WINCH	1
7	----	1296	SNAP RING	1
8	1046	1046	SQUARE RING SEAL	3
9	----	1019-4	PLUG VENT W/O-RING	1
10	----	1014-4	BOLTS HEX - 20K WINCH	8
10	----	1114-5	BOLTS HEX - 12K WINCH	8
11	----	1655	KEY WOODRUFF	1
12	----	2265-6	SHAFTFOR - 20K WINCH	1
12	----	2109-3	SHAFTFOR - 12K WINCH	1
13	----	M110AB-4	BODY/BEARING ASSEMBLY - 20K WINCH	1
13	----	PA-2328-2	BODY/BEARING ASSEMBLY - 12K WINCH	1
14	----	M110C-1	COVER/BEARING ASSEMBLY	1
15	----	2180	SNAP RING SHAFT	1
16	----	1865	COMMUTATOR PLATE	1
16	2263	2263	SEAL KIT BODY	1
16	----	2480	SEAL KIT BODY VITON	1

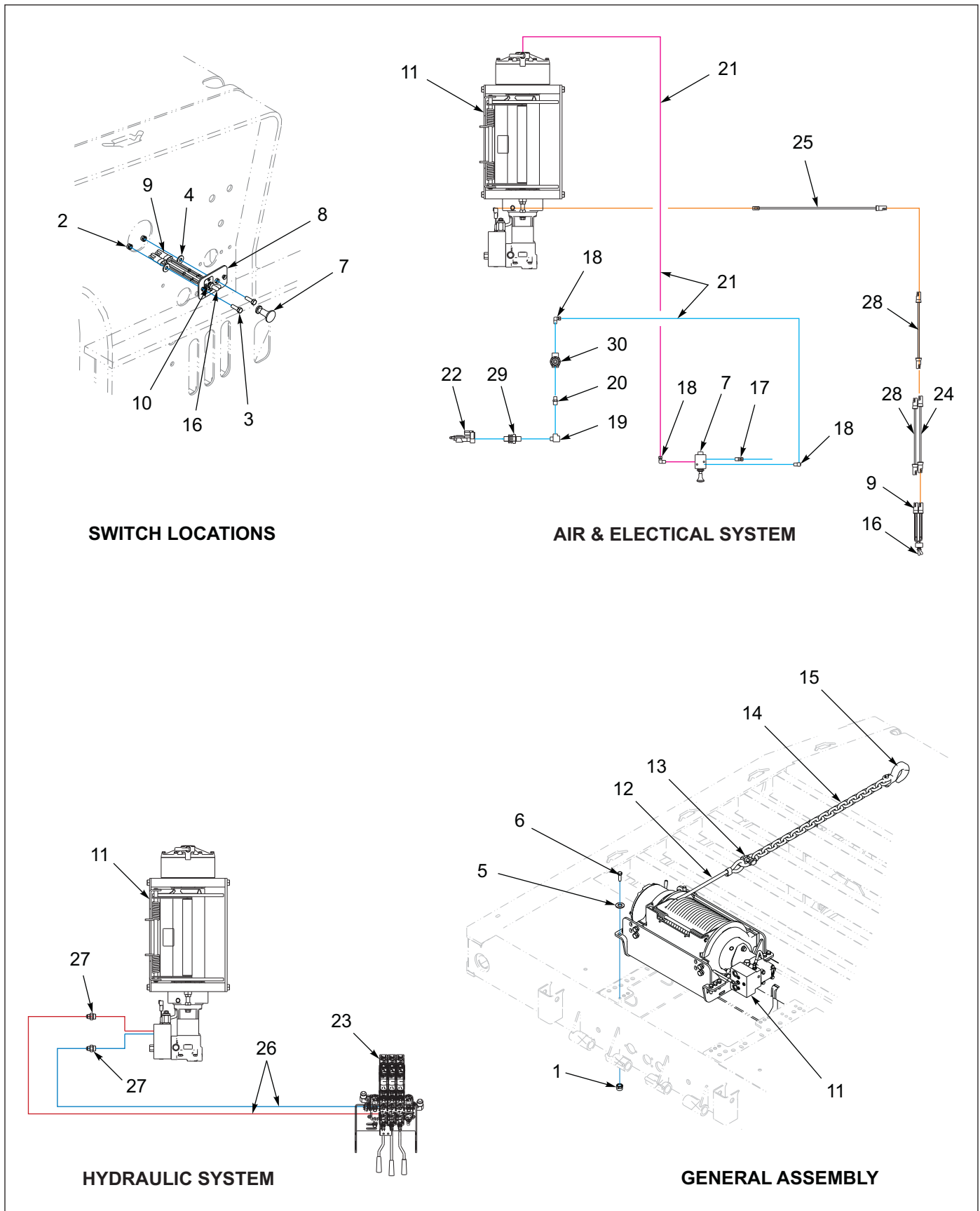


Figure 1-55: 20K 2 Speed (WARN)

Winch Installation - 20K 2 Speed (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	167522	WINCH INSTALLATION, 20K 2 SPEED	
1	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
3	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	2
4	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	2
5	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
6	108439	SCREW HX CP 1/2-13UNCX1-1/2G8	12
7	134657	VALVE, AIR 3WAY/POS, 1/4NPT	1
8	137987	MOUNT ELECTRIC SWITCH 410	1
9	150117	SWITCH ASSY LIGHT GROTE	REF
10	174043	DECAL, WINCH, HI/LO	1
11	174553	WINCH ASSY WARN 20K 2 SPEED	1
12	3-155-010018-6	CABLE 5/8 W/LOOP 85FT	REF
13	3-174-010038	CHAIN LINK CONNECTING 1/2	1
14	3-174-010039036	CHAIN 1/2X36" GRD 7 21LINKS	1
15	7HCGHT500	HOOK CLEVIS GRAB 1/2	1
16	81264	RUBBER BOOT FOR ELECT SWITCH	REF
17	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
18	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
19	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	REF
20	1-297-010019-05	FITTING,BRS PIPE,HX 3/8X1/4	1
21	1-833-010001	TUBING NYLON 1/4 OD	34
22	108801	GLAD HAND-RED-AIR	REF
23	139525	VALVE ASSY 3-SPOOL 400	REF
24	150111	HARNESS 300 IN MALE.FEMALE	1
25	164053	HARNESS,102"BRANCH,WORK LIGHT	1
26	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
27	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
28	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2
29	55B61	FRAME UNION	REF
30	905-54-107	BRAKE PROTECTION VALVE	1

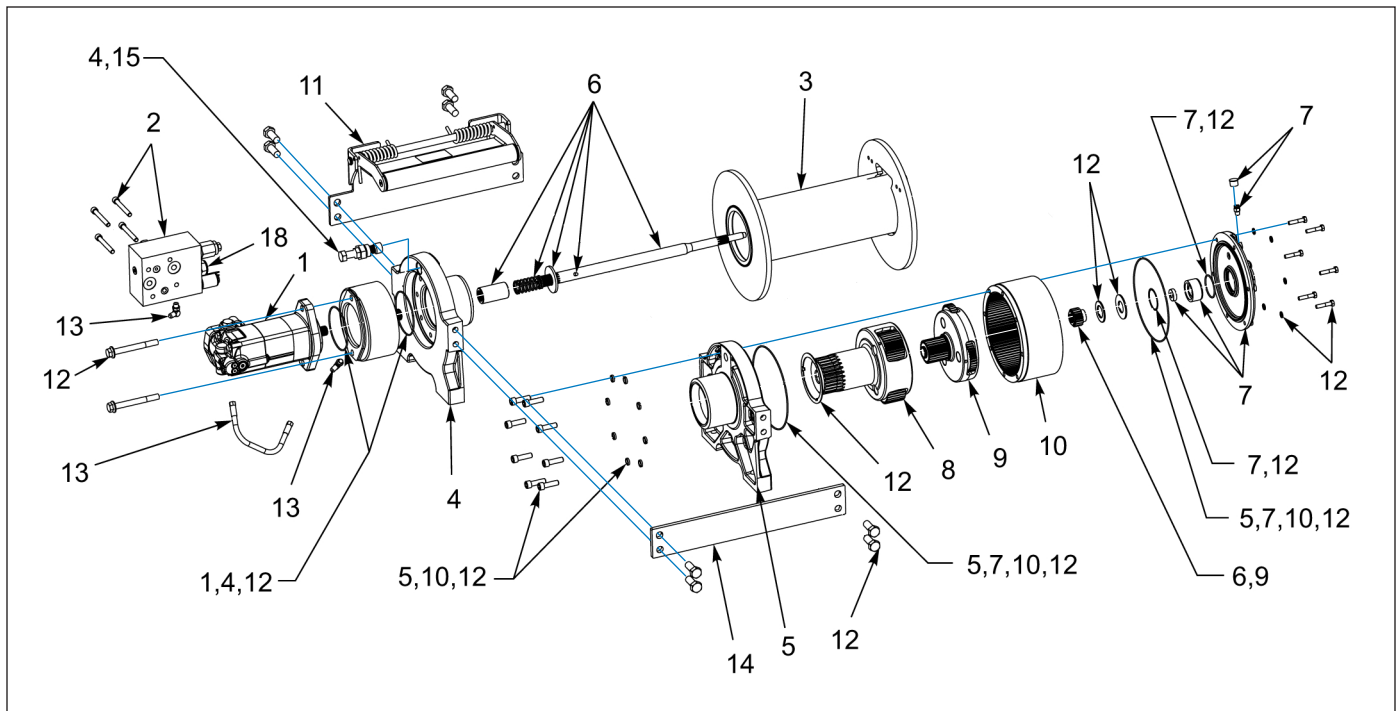
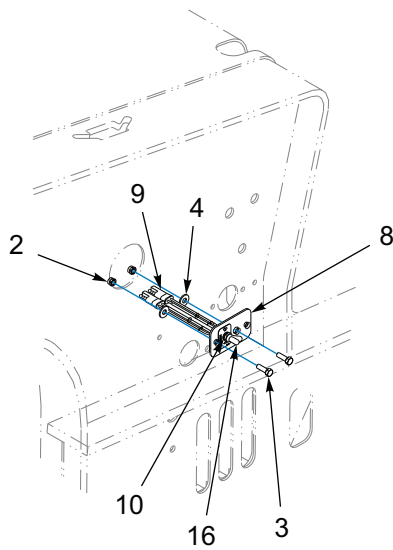


Figure 1-56: Winch Items - 20K 2 Speed (WARN)

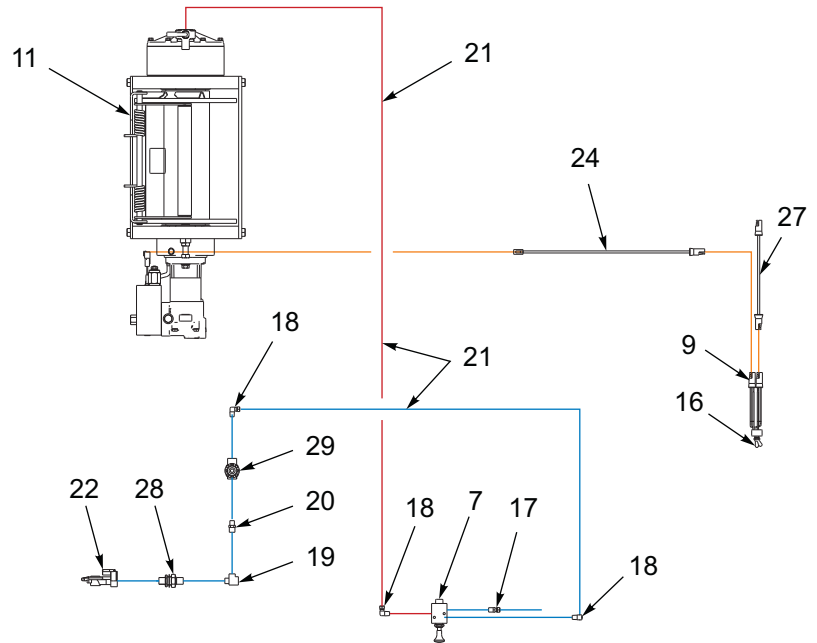
Winch Items - 20K 2 Speed (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	167521	WINCH, 20K WARN 2 SPEED	
1	178718	SERVICE KIT, MOTOR HYD 11.9 CI-SPD	1
2	178715	SERVICE KIT, MANIFOLD HYDRAULIC	1
3	162208	SERVICE KIT, DRUM ASSEMBLY 20K LONG	1
4	178999	SERVICE KIT, DRUM RETARDER DRUM SUPPORT	1
5	162210	SERVICE KIT, DRUM SUPPORT GEAR END	1
6	162211	SERVICE KIT, DRIVESHAFT LONG	1
7	162941	SERVICE KIT, END HOUSING ASSEMBLY AIR	1
8	162213	SERVICE KIT, CARRIER STAGE 2-6.0-4.75	1
9	162214	SERVICE KIT, STAGE 1-6.0-4.75	1
10	162215	SERVICE KIT, RING GEAR	1
11	162216	SERVICE KIT, TENSIONER LONG	1
12	179000	SERVICE KIT, HARDWARE SEAL	1
13	162218	SERVICE KIT, HOSE HYDRAULIC	1
14	162219	SERVICE KIT, TIE PLATE LONG	1
15	179001	SERVICE KIT, DRUM RETARDER	1
16	162220	SERVICE KIT, WIRE ROPE ASSEMBLY 9/16 X 245'	1
17	162207	SERVICE KIT, BRAKE ASSEMBLY	1
18	199104	SOLENOID FOR 2SP WARN, 20K-30K	1
19	201642	SOLENOID COIL	1
20	201643	OVERCENTER VALVE	1
21	201644	O-RING	2
22	201645	O-RING	2
23	201650	SET SCREW	2

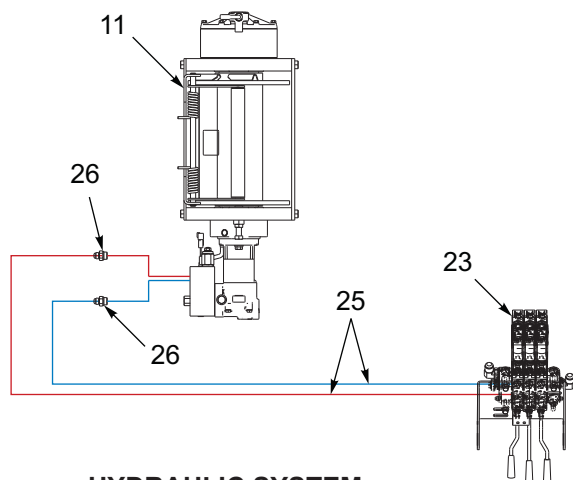
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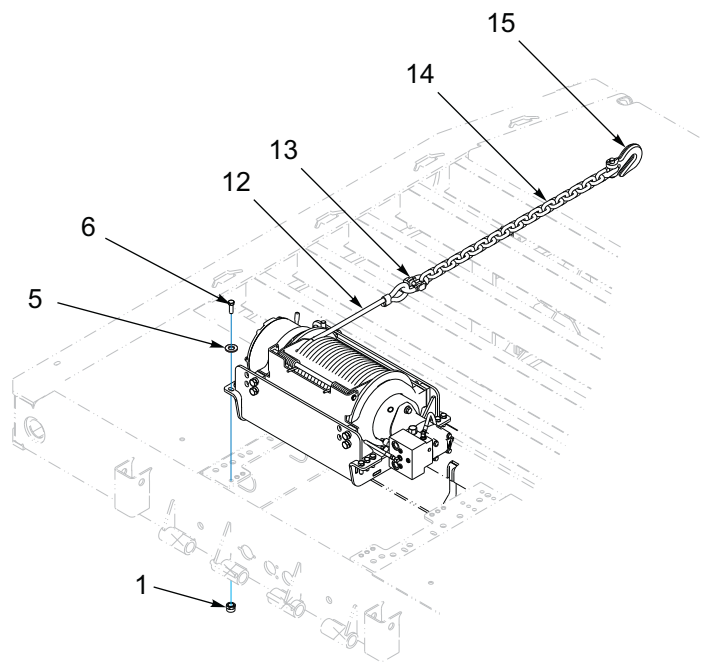
SWITCH LOCATIONS



AIR & ELECTRICAL SYSTEM



HYDRAULIC SYSTEM



GENERAL ASSEMBLY

Figure 1-57: 30K 2 Speed (WARN)

Winch Installation - 30K 2 Speed (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	172878	WINCH INSTALLATION, 30K 2 SPEED	
1	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2
3	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	2
4	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	2
5	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
6	108439	SCREW HX CP 1/2-13UNCX1-1/2G8	12
7	134657	VALVE, AIR 3WAY/POS, 1/4NPT	1
8	137987	MOUNT ELECTRIC SWITCH 410	1
9	150117	SWITCH ASSY LIGHT GROTE	REF
10	174043	DECAL, WINCH, HI/LO	1
11	174552	WINCH ASSY WARN 30K 2 SPEED	1
12	132833	CABLE 5/8 W/LOOP 85FT	REF
13	3-174-010059	CHAIN LINK CONNECTING 1/2	1
14	3-174-010060036	CHAIN 5/8X36" GRD 7 80	1
15	1-382-010035-06	HOOK CLEVIS GRAB 5/8 GRD80	1
16	81264	RUBBER BOOT FOR ELECT SWITCH	REF
17	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
18	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
19	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	REF
20	1-297-010019-05	FITTING,BRS PIPE,HX 3/8X1/4	1
21	1-833-010001	TUBING NYLON 1/4 OD	34
22	108801	GLAD HAND-RED-AIR	REF
23	139525	VALVE ASSY 3-SPOOL 400	REF
24	164053	HARNESS,102"BRANCH,WORK LIGHT	1
25	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
26	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
27	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2
28	55B61	FRAME UNION	REF
29	905-54-107	BRAKE PROTECTION VALVE	1

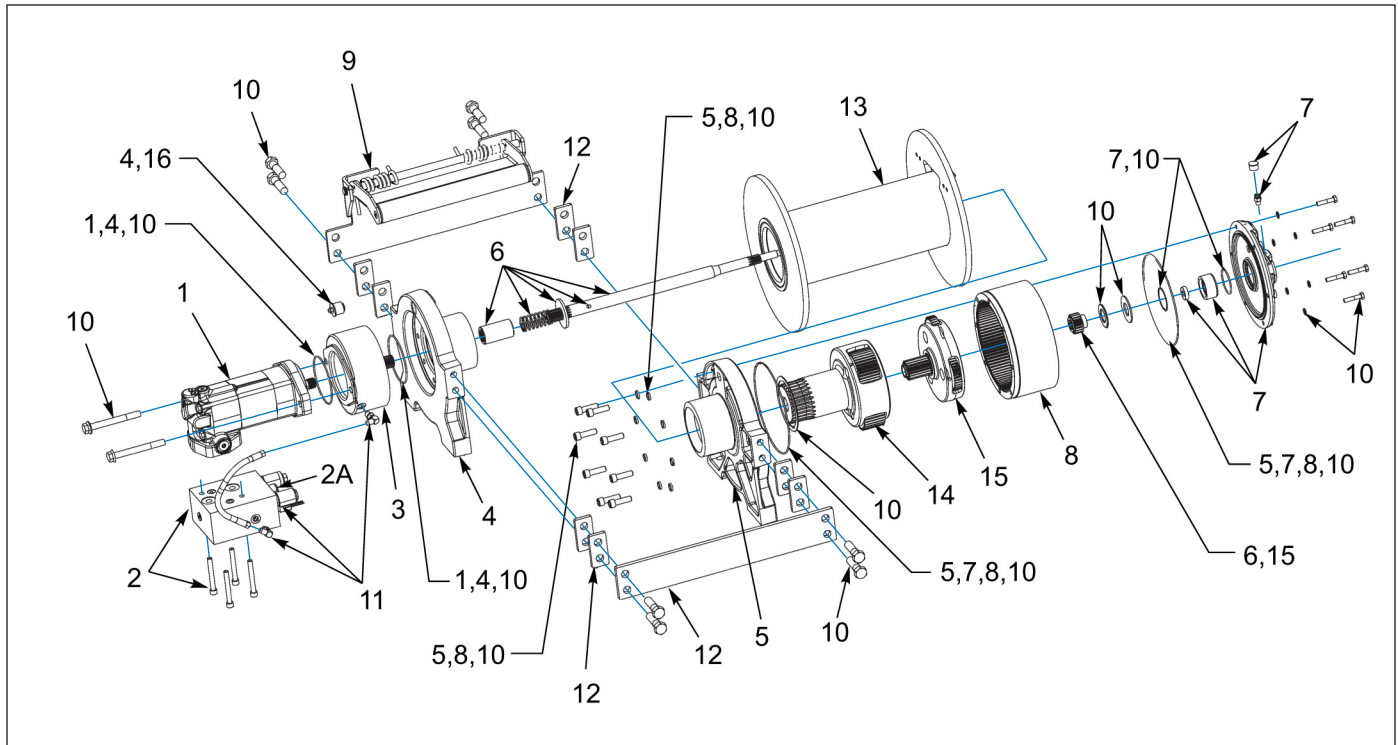


Figure 1-58: Winch Items - 30K 2 Speed (WARN)

Winch Items - 30K 2 Speed (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	172877	WINCH, 30K WARN AIR KICKOUT	
1	178714	SERVICE KIT - MOTOR HYDRAULIC 14.9CI	1
2	178715	SERVICE KIT - MANIFOLD HYDRAULIC	1
3	162207	SERVICE KIT - BRAKE ASSEMBLY	1
4	178716	SERVICE KIT - DRUM SUPPORT, MOTOR END RETARDER	1
5	162210	SERVICE KIT - DRUM SUPPORT, GEAR END	1
6	162211	SERVICE KIT - DRIVE SHAFT, LONG	1
7	162941	SERVICE KIT - END HSG ASSY AIR	1
8	162215	SERVICE KIT - RING GEAR	1
9	162216	SERVICE KIT - TENSIONER LONG	1
10	162217	SERVICE KIT - HARDWARE SEAL	1
11	162218	SERVICE KIT - HOSE HYDRAULIC	1
12	162219	SERVICE KIT - TIE PLATE LONG	1
13	162942	SERVICE KIT - DRUM ASSEMBLY 30K LONG	1
14	162943	SERVICE KIT - CARRIER, STAGE 2 6.0-6.0	1
15	162944	SERVICE KIT - CARRIER, STAGE 1 6.0-6.0	1
16	178717	SERVICE KIT - EXPANSION PLUG 1" RUBBER	1
17	162945	WIRE ROPE ASSEMBLY 5/8 EIPS X 245 FT (NOT SHOWN)	1
18	199104	SOLENOID FOR 2SP WARN, 20K-30K	1
19	201642	SOLENOID COIL	1
20	201643	OVERCENTER VALVE	1
21	201644	O-RING	2
22	201645	O-RING	2
23	201650	SET SCREW	2

Landing Gear

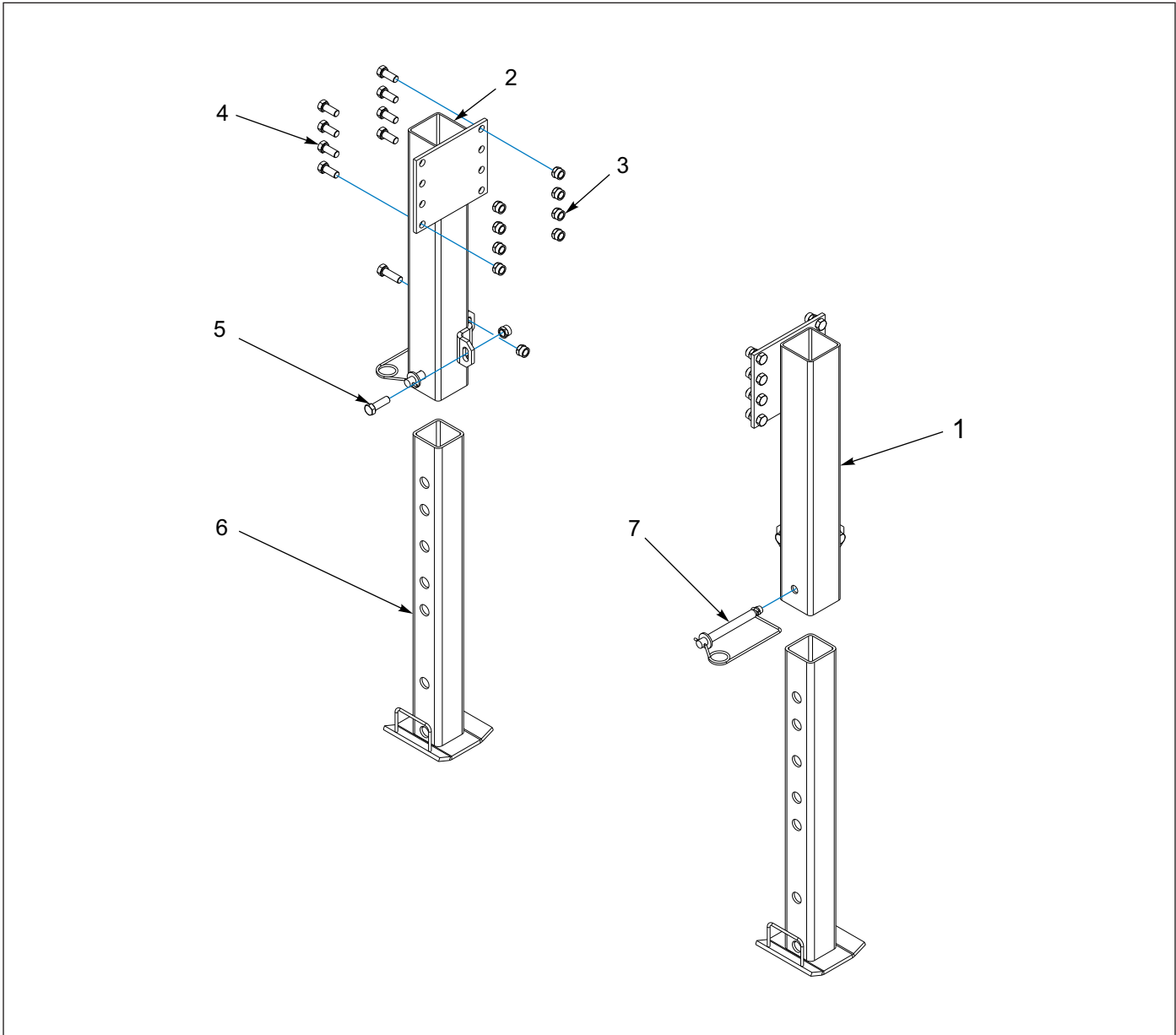


Figure 1-59: Landing Gear Installation - Bolt-On Park Stand

Landing Gear Installation - “Bolt On” Park Stand

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INSTALLATION, BOLT-ON	
1	112678	PARK STAND WELDMENT, LH FRONT PIN	1
2	112679	PARK STAND WELDMENT, RH FRONT PIN	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WELDMENT	2
7	346SL	LOCK HITCH PIN	2

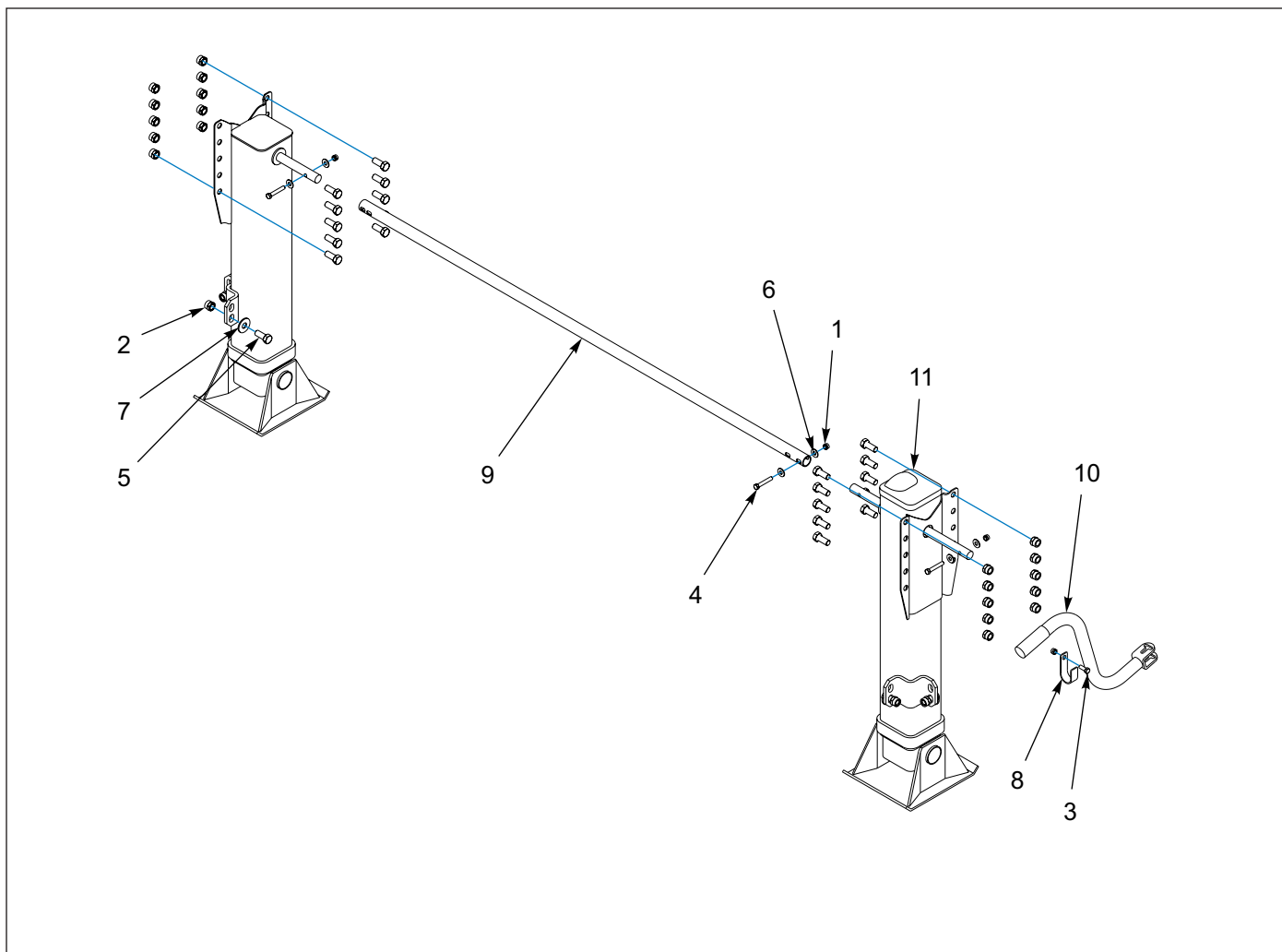


Figure 1-60: Landing Gear Installation - Jost 410

Landing Gear Installation - Jost 410

ITEM	PART NO.	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 (SEE PAGE 1-106)	1

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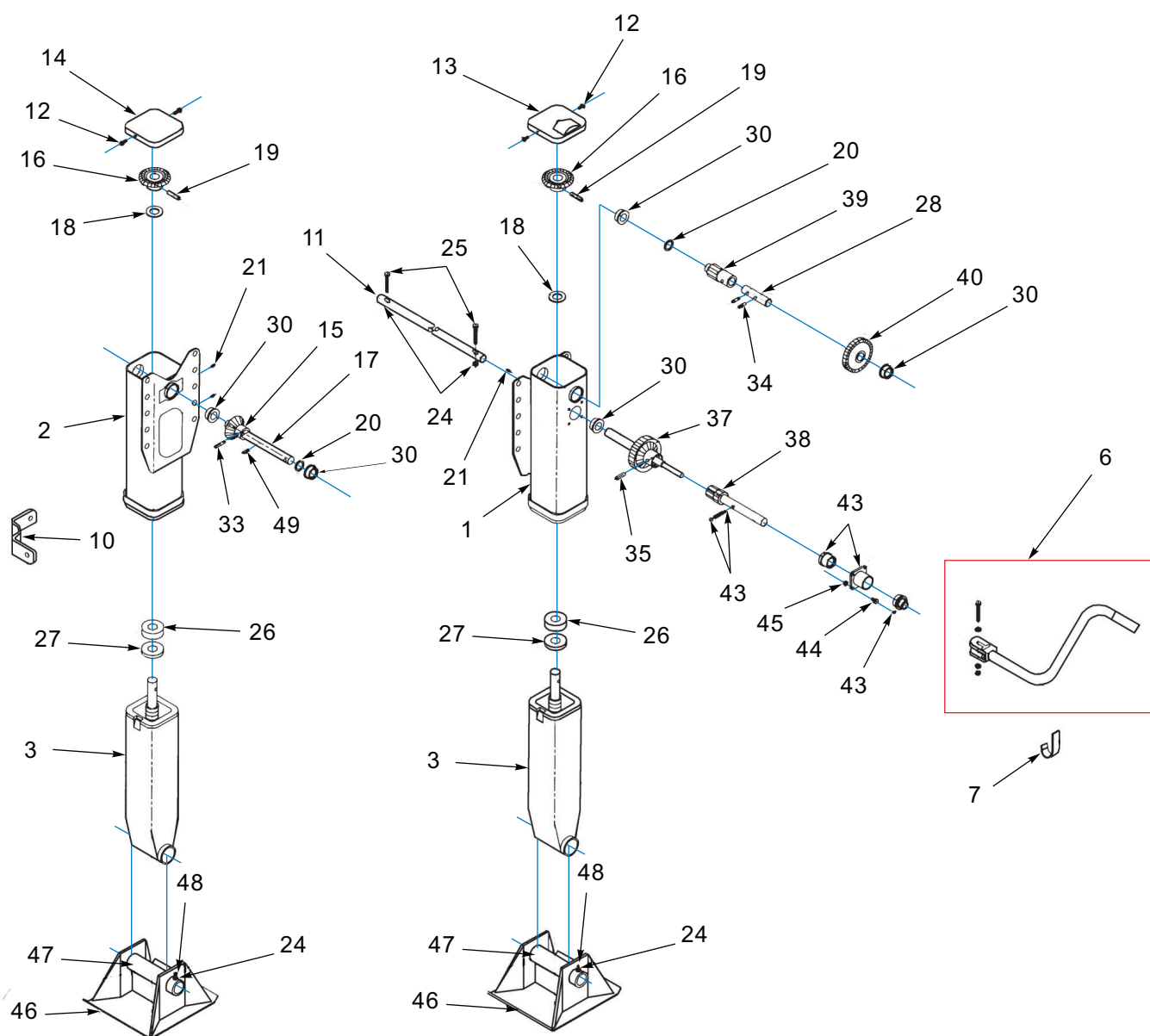


Figure 1-61: Landing Gear Installation - Jost #A401T19

Landing Gear Installation - Jost #A401T19

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	116800		LANDING GEAR JOST #A401T19	
1	-----	D10201.3	OUTER HOUSING - 2 SPEED	1
2	-----	D10116.3	OUTER HOUSING - 1 SPEED	1
3	-----	C10140.3	INNER LEG ASSEMBLY - STANDARD	2
6	109161	-----	CRANK 930 MODIFICATION	1
7	109711	B10261	CRANK HANGER	1
10	109712	C10108	BRACE LUG - W	2
11	-----	B10066	INTERMEDIATE CROSS SHAFT	1
12	-----	A10059.1	COVER SCREW	4
13	-----	C10217	COVER - 2 SPEED	1
14	-----	C10259	COVER - 1 SPEED	1
15	-----	C10177	PINION GEAR	1
16	-----	C10155	BEVEL GEAR	2
17	-----	B10130	PINION SHAFT - 1 SPEED	1
18	-----	A10102	THRUST WASHER	2
19	-----	A10052.3	GROOVED PIN	2
20	-----	A10218	SPACER WASHER	2
21	-----	A10040	GREASE FITTING	4
23	-----	C10209	STRUT BRACE (NOT SHOWN)	4
24	A10038.7	A10038.7	SELF LOCKING NUT	2
25	-----	A10037.1	CROSS SHAFT BOLT - 3/8 X 2 GR5	2
26	-----	A10033	THRUST BEARING	2
27	-----	A10101	COLLAR	2
28	-----	A10212	OUTPUT SHAFT	1
30	-----	A10255	BUSHING	5
33	-----	A10054.3	ROLL PIN 3/8 X 1-1/2	1
34	-----	A10260.1	SPIRAL PIN	2
35	-----	A10054.7	ROLL PIN - 3/8 X 1-3/4	1
36	-----	B10236	OUTPUT CLUSTER SHAFT	1
37	-----	C10234	OUTPUT CLUSTER GEAR	1
38	214441	C10233	INPUT GEAR SHAFT	1
39	-----	C10078	OUTPUT SPUR GEAR	1
40	-----	C10085	INPUT SPUR GEAR	1
43	163502	B10229S	SHIFT HOUSING SERVICE KIT	1
44	-----	A10230	SHIFT HOUSING BOLT	4
45	-----	A10038.6	SELF LOCKING NUT	4
46	C10256	C10256	SHOE - 10 X 10 X 4-1/2	2
47	114983	B10036	SHOE AXLE	2
48	A10037.3	A10037.3	HEX HEAD BOLT	2
49	-----	A10054.6	ROLL PIN - 1/4 X 1-1/4	1
50	137974	A401LT19	RH LANDING LEG ASSEMBLY (NOT SHOWN)	1

Dock Levelers

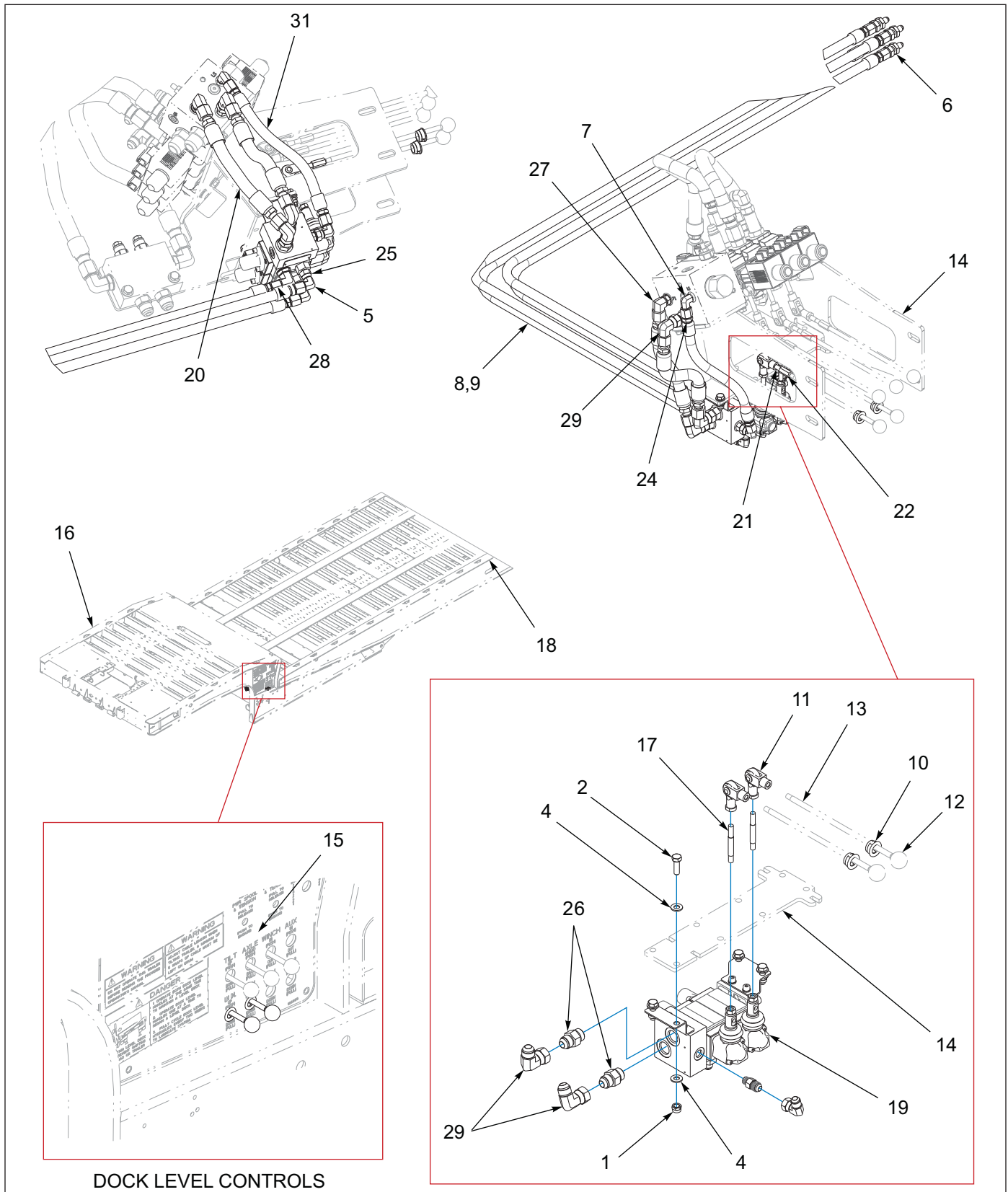


Figure 1-62: Dock Level Installation

Dock Level Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	189674	HYD D/L, 400A-41-102	
	189676	HYD D/L, 400A-48/50CA-102/108	
1	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	4
2	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	4
3	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0 (NOT SHOWN)	14
4	1-861-010032-08	WASHER,FLAT 5/16 ZP	8
5	102-0031	ADAPTER,90 JIC SWIVEL #6	3
6	102-1097	37 FLARE BULKHEAD/37 FLARE	4
7	102-1238	ADAPTOR,90-#4 O-RING/#6 JIC	1
8	103166	HOSE ASSY 3/8X252 SAE37 STR (USED W/ 189674)	4
9	122813	HOSE ASSY 3/8X332,SAE37,STR (USED W/ 189676)	4
10	178444	BUSHING NYLON INSERT 9/16ID	2
11	186875	CLEVIS JOINT,ROD ENDS M8.1.25	2
12	186877	KNOB,1" ROUND,M8X1.25 THD	REF
13	186878	ROD HANDLE, M8 X 1.25 ENDS	REF
14	186886	VALVE ASSY, 3 SP, 35 GPM, SOLE	REF
15	186889	PLACARD, CONTROL PANEL, 400A	REF
16	186901	WLDMT, GOOSENECK, US 400	REF
17	186902	STUD M8X1.25X65MM,DBL THD	2
18	189015	FRAME WLDMT 440A-53-102	REF
19	189260	VALVE, 2 SPOOL, MOTOR, MANUAL	1
20	193909	HOSE ASSY 1/2X12 #8JIC STR	1
21	193910	STUD M8-1.25X50MM DBLE THD	2
22	193911	COUPLING NUT,M8-1.25X24MM ZINC	2
23	202702-4-6S	ADAPTER, #4 O-RING TO #6 JIC	1
24	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	1
25	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	2
26	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
27	2062-6-8S	ADAPTER 90" 562 O-RING-.75JIC	1
28	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
29	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	3
30	1-822-010001	TRIM 1350 3/8 BLK FINE PEBBLE (NOT SHOWN)	3
31	51031-21	HOSE ASSY 3/8X12-7/8 SAE37STR	1

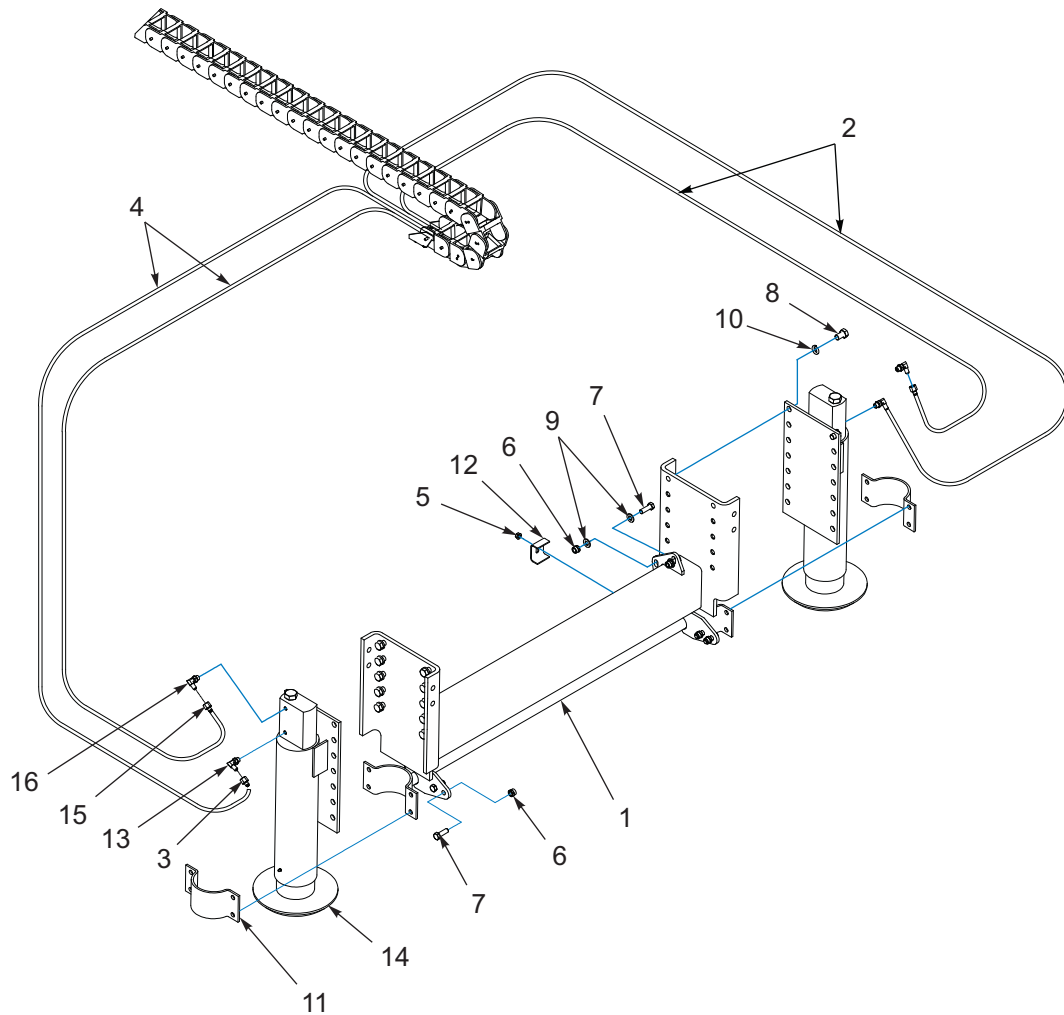


Figure 1-63: Dock Leveler Assembly - Single 60K (440B)

Dock Leveler Assembly - Single 60K (440B)

ITEM	PART NO.	DESCRIPTION	QTY.
	121498	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	121402	MOUNT WELDMENT, D/L	1
2	122540	HOSE ASSEMBLY 1/4 X 240	2
3	1-007-010058	ADAPTER HYD #4 JIC W/ 3/32 RESTRICTOR	2
4	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	5
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	24
9	1-861-010032-14	WASHER, FLAT 1/2N	8
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	24
11	100348	MOUNTING BRACKET FOR CYLINDER	REF
12	2-181-010001	CLAMP, HOSE	3
13	2062-6-4S	ADAPTER, 90	4
14	3-242-010205	CYLINDER, HYDRAULIC 4X15 (W/ COLLAR) (SEE PAGE 1-117)	2
15	202702-6-4S	ADAPTER, STRAIGHT	2
16	138155	ADAPTER, 90	2
17	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 (NOT SHOWN)	REF

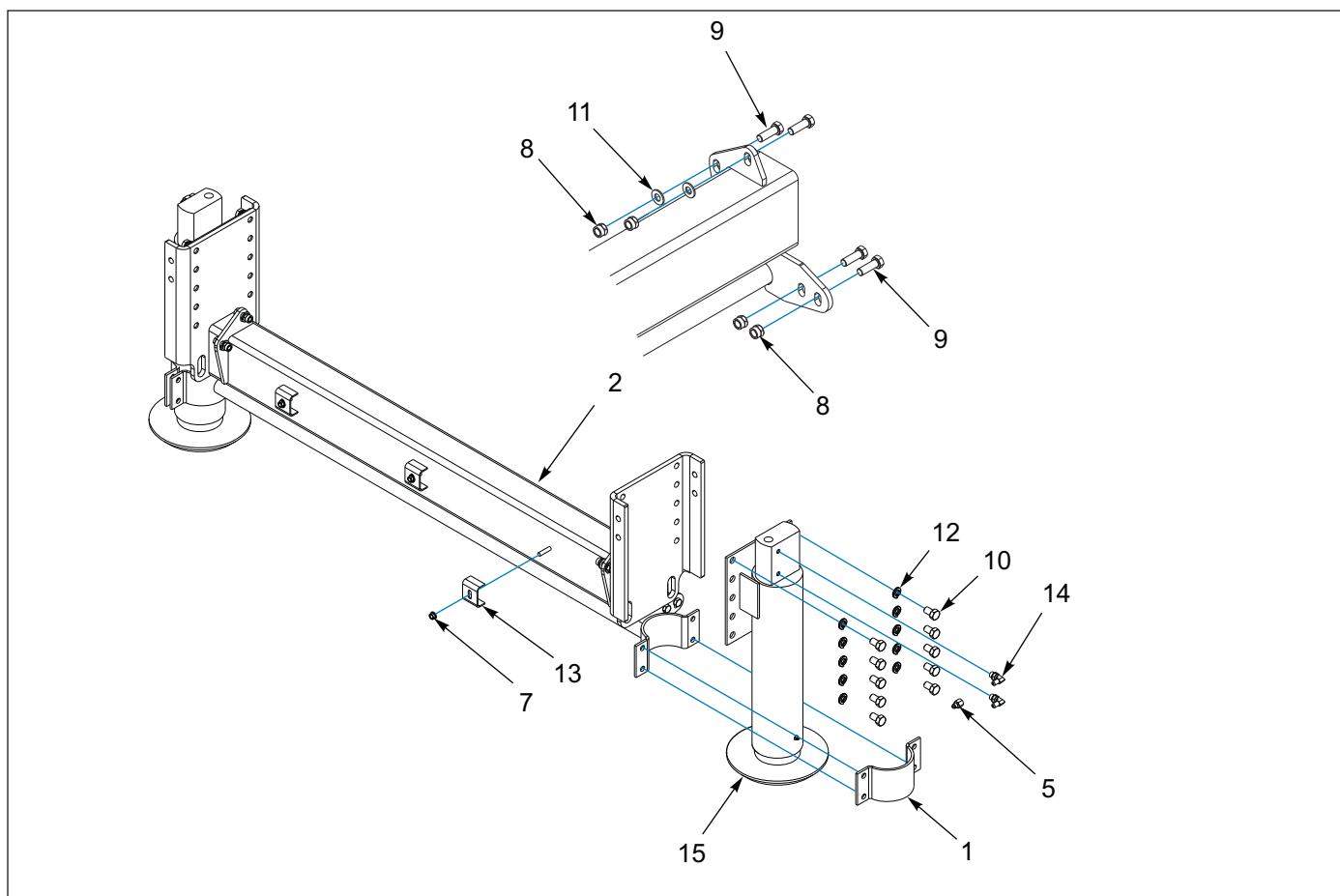


Figure 1-64: Dock Leveler Assembly - Single 60K

Dock Leveler Assembly - Single 60K - 120 Wide Big Brake

ITEM	PART NO.	DESCRIPTION	QTY.		
	174179	DOCK LEVEL ASSEMBLY, 60K (455-120)	*		
	121498	DOCK LEVEL ASSEMBLY, 60K (400 - 102/108 SB)	*		
	189525	DOCK LEVEL ASSEMBLY, 60K (400 - 108 B)	*		
1	100348	MOUNTING BRACKET FOR CYLINDER	REF		
2	138155	ADAPTER 90, #4 JIC			
3	174181	MOUNT WLDMT, DOCK LEVEL, 455-120	1	--	--
3	121402	MOUNT WLDMT, DOCK LEVEL, 410	--	1	--
3	189524	MOUNT WLDMT, DOCK LEVEL, 400-120 SB	--	--	1
	174184	HOSE ASSEMBLY, 1/4 X 232 (TO STREETSIDE CYLINDER)	2	--	2
	174185	HOSE ASSEMBLY, 1/4 X 270 (TO CURBSIDE CYLINDER)	2	--	2
	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	2	2	2
	1-394-010001	HOSE, ABRASION SLEEVE X 2 (NOT SHOWN)	1 FT	--	1 FT
	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	4	4	4
	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8	8	8
	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8	8	8
	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20	20	20
	1-861-010032-14	WASHER, FLAT 1/2N	8	8	8
	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20	20	20
	2-181-010001	CLAMP, HOSE	4	4	4
	2062-6-4S	ADAPTER, 90	2	2	2

Dock Leveler Assembly - Single 60K - 120 Wide Big Brake

ITEM	PART NO.	DESCRIPTION	QTY.		
	202702-6-4S	ADAPTER, STR, #6 O-RING X #4 JIC	2	2	2
	3-242-010205	CYLINDER, HYDRAULIC 4X15 (W/ COLLAR) (SEE PAGE 1-117)	2	2	2
	1-397-010262-5	HOSE ASSEMBLY, 1/4X216 JIC37 ENDS	--	2	--
	1-394-010002	HOSE ABRASION SLEEVE X 2-7/8	--	1 FT	--
	122540	HOSE ASSEMBLY 1/4X240	--	2	--

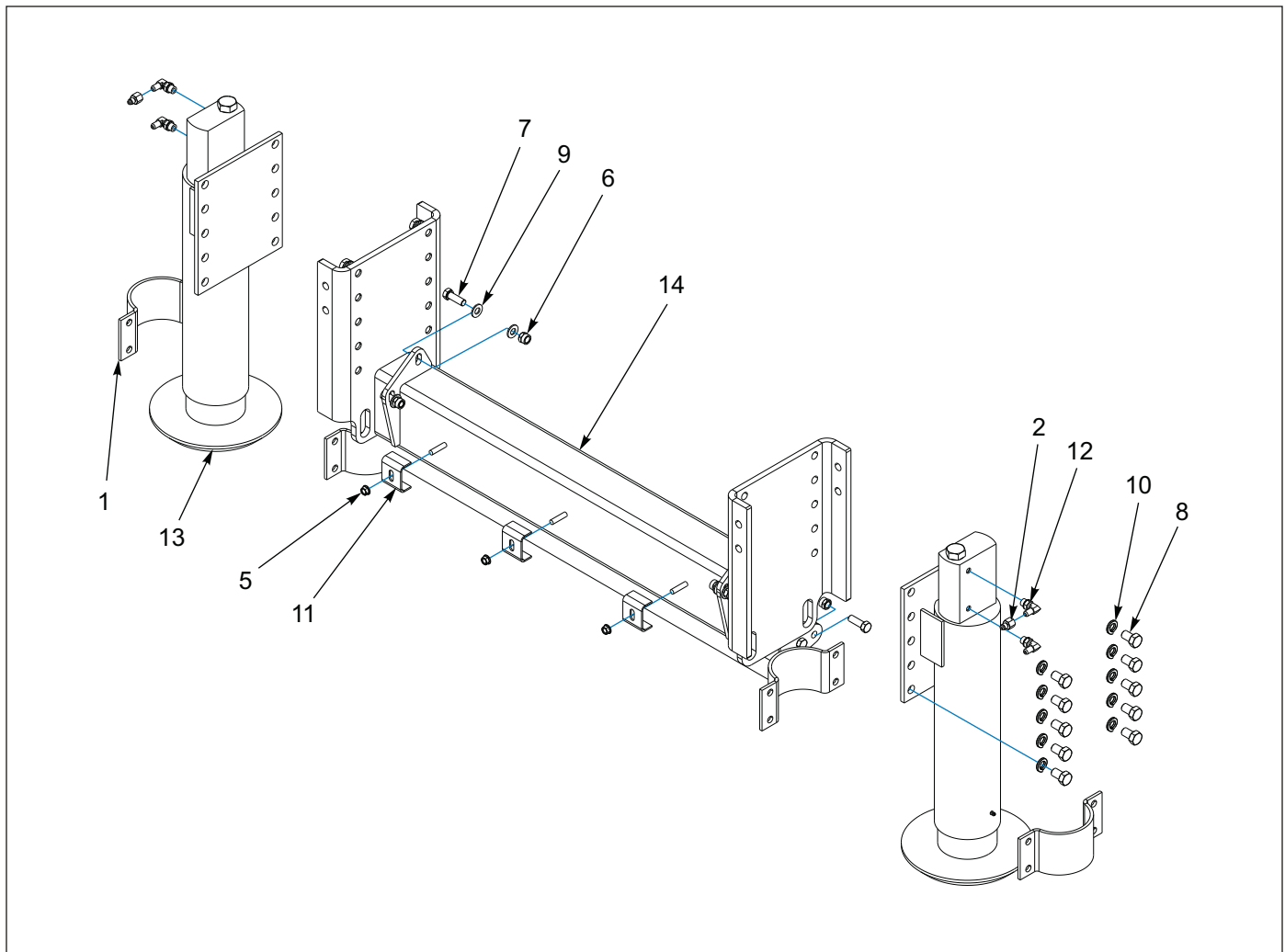


Figure 1-65: Dock Leveler Assembly - Single 60K (400-102 Big Brake)

Dock Leveler Assembly - Single 60K (400-102 Big Brake)

ITEM	PART NO.	DESCRIPTION	QTY.
	130851	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	2
3	1-394-010001	HOSE, ABRASION SLEEVE X 2 (NOT SHOWN)	AR
4	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216 (NOT SHOWN)	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
9	1-861-010032-14	WASHER, FLAT 1/2N	8
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
11	2-181-010001	CLAMP, HOSE	3
12	2062-6-4S	ADAPTER, 90	4
13	3-242-010205	CYLINDER, HYDRAULIC 4X15 (W/ COLLAR) (SEE PAGE 1-117)	2
14	3-482-010472	MOUNT WELDMENT, DOCK LEVEL 60K	1
15	122540	HOSE ASSEMBLY 1/4 X 240 (NOT SHOWN)	2

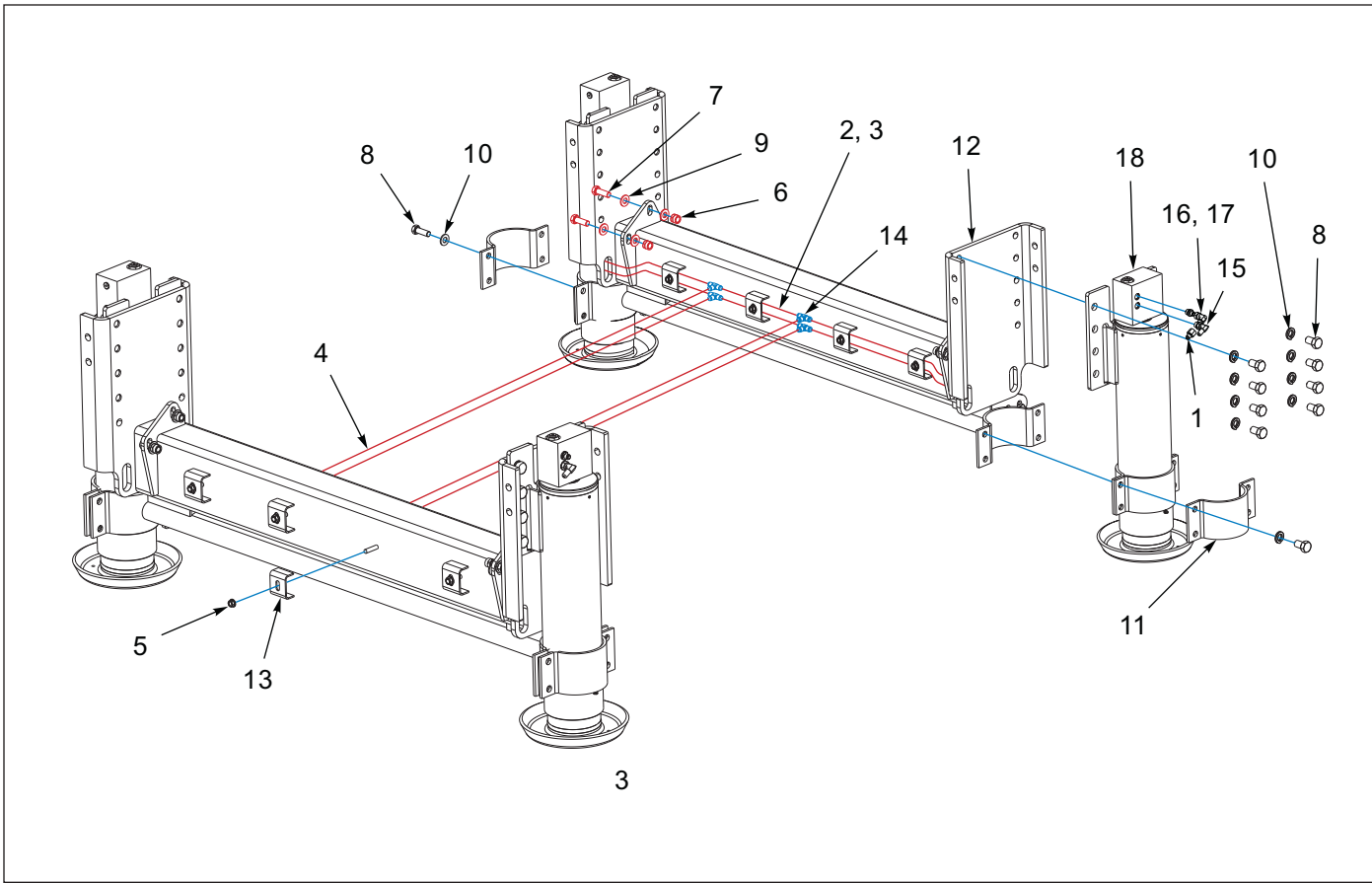


Figure 1-66: Dock Level Assembly - Single 120K

Dock Level Assembly - Single 120K

ITEM	PART NO.	DESCRIPTION	QTY.
	126537	DOCK LEVEL ASSEMBLY SINGLE 120K	
1	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	4
2	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	4
3	1-397-010262028	HOSE ASSEMBLY 1/4 X 28	4
4	1-397-010262100	HOSE ASSEMBLY 1/4 X 100	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	8
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	16
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	16
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	32
9	1-861-010032-14	WASHER, FLAT 1/2N	16
10	1-861-010034-15	WASHER, SPLIT LOCK 5/8	32
11	100348	MOUNTING BRACKET FOR CYLINDER	REF
12	121402	MOUNT WELDMENT, D/L	2
13	2-181-010001	CLAMP, HOSE	8
14	2033-4-4S	ADAPTER, TEE	4
15	2062-6-4S	ADAPTER, 90	4
16	138155	ADAPTER, 90	4
17	202702-6-4S	ADAPTER, STRAIGHT	4
18	3-242-010205	CYLINDER, HYDRAULIC 4X15 (W/ COLLAR) (SEE PAGE 1-117)	4
19	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 (NOT SHOWN)	AR

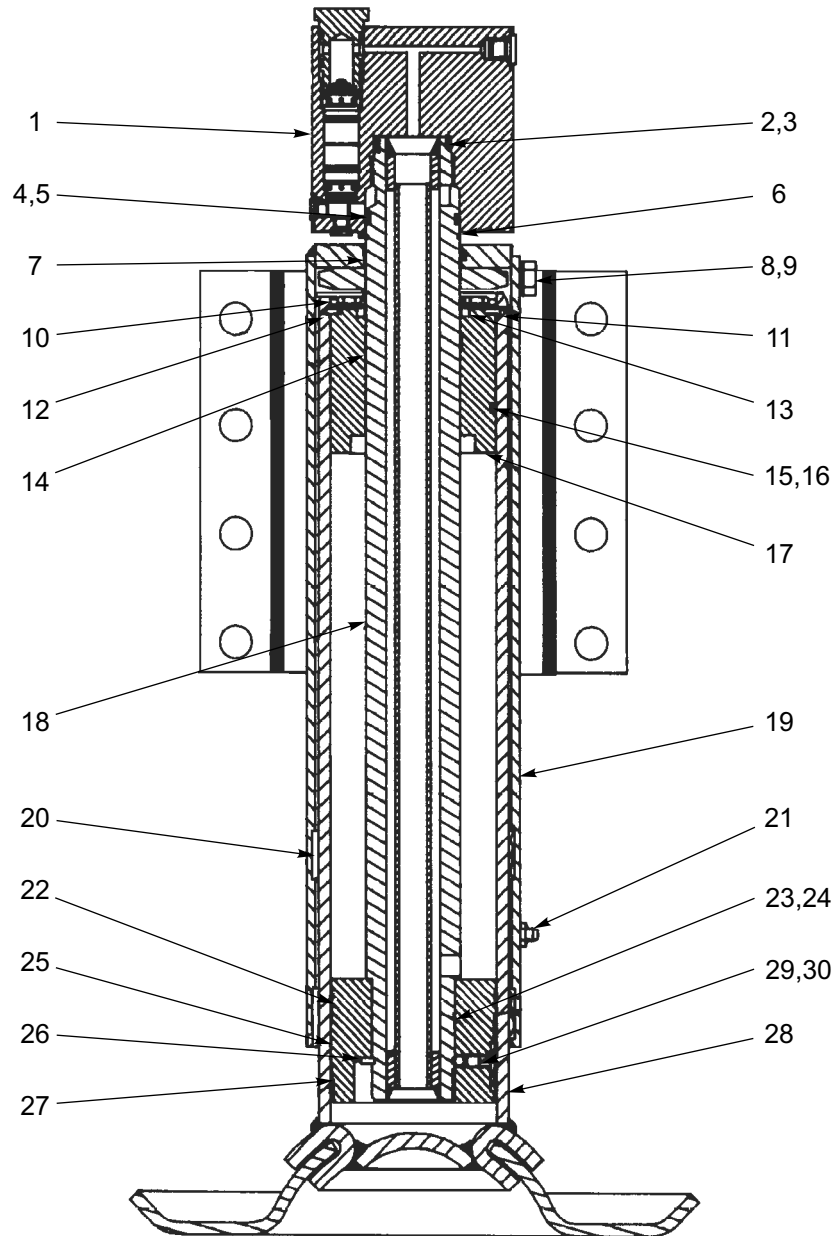
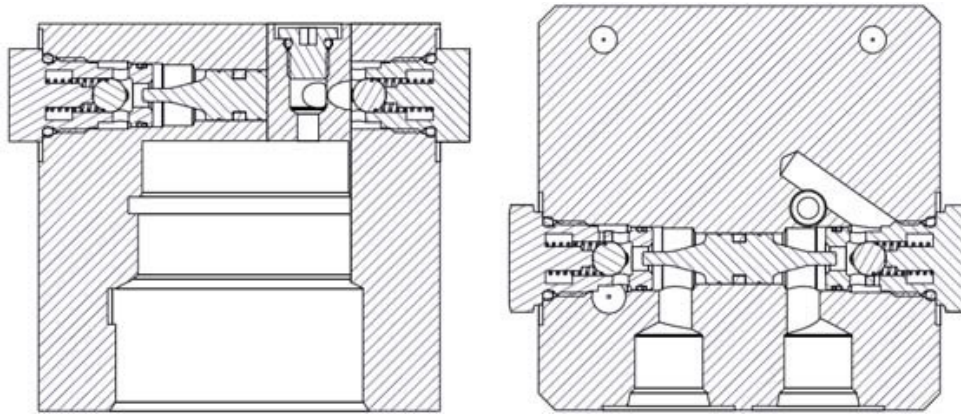


Figure 1-67: Dock Leveler Leg Assembly - W/ Lock Valve (1 of 2)



FRONT SECTION

TOP SECTION

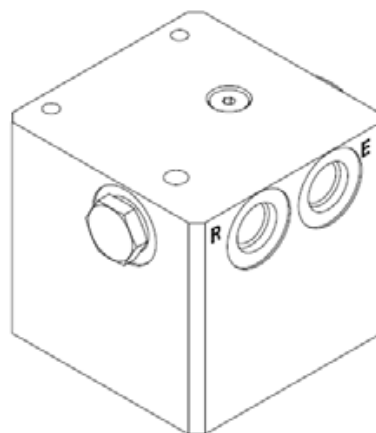
STABILIZER LEG
COUNTER BALANCE VALVE

Figure 1-68: Dock Leveler Leg Assembly - W/ Lock Valve (2 of 2)

Dock Leveler Leg Assembly - W/ Lock Valve

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-242-010205	----	COMPLETE LEG ASSEMBLY (60,000# CAP. 4.00" BORE)	
1	165769	----	VALVE SERVICE KIT	1
	165768	----	VALVE RETROFIT KIT	1
2	----	----	O-RING (NOT SOLD SEPARATE)	1
3	----	----	BACK-UP WASHER (NOT SOLD SEPARATE)	2
4	----	----	O-RING (NOT SOLD SEPARATE)	1
5	----	----	BACK-UP WASHER (NOT SOLD SEPARATE)	1
6	----	----	SNAP RING 2" ROD (NOT SOLD SEPARATE)	1
7	----	----	O-RING (NOT SOLD SEPARATE)	1
8	----	15-1021	SCREW, HEX HEAD CAP (NOT SOLD SEPARATE)	1
9	----	16-1002	LOCK WASHER (NOT SOLD SEPARATE)	1
10	----	15-1012	SCREW, HEX HEAD CAP (NOT SOLD SEPARATE)	4
11	100279	----	CYLINDER HEAD RETAINER	1
12	----	----	RETAINING RING (NOT SOLD SEPARATE)	1
13	----	----	OIL SEAL (NOT SOLD SEPARATE)	1
14	----	----	ROD SEAL (NOT SOLD SEPARATE)	1
15	----	----	O-RING (NOT SOLD SEPARATE)	1
16	----	----	BACK-UP WASHER (NOT SOLD SEPARATE)	1
17	100276	----	CYLINDER HEAD	1
18	----	----	PISTON ROD (NOT SOLD SEPARATE)	1
19	----	----	WELL TUBE (NOT SOLD SEPARATE)	1
20	----	----	WEAR RING (NOT SOLD SEPARATE)	2
21	----	10-1001	GREASE FITTING	1
22	----	----	PISTON SEAL (NOT SOLD SEPARATE)	1
23	----	----	O-RING (NOT SOLD SEPARATE)	1
24	----	----	BACK-UP WASHER (NOT SOLD SEPARATE)	2
25	----	----	WEAR RING (NOT SOLD SEPARATE)	1
26	----	17-1003	SNAP RING	1
27	----	----	PISTON (NOT SOLD SEPARATE)	1
28	----	----	CYLINDER TUBE (NOT SOLD SEPARATE)	1
29	----	----	NYLON BALL (NOT SOLD SEPARATE)	1
30	----	----	SET SCREW (NOT SOLD SEPARATE)	1
31	100348	----	SPLIT COLLAR ASSEMBLY (60,000 LB.) (NOT SHOWN, NOT SERVICEABLE)	1

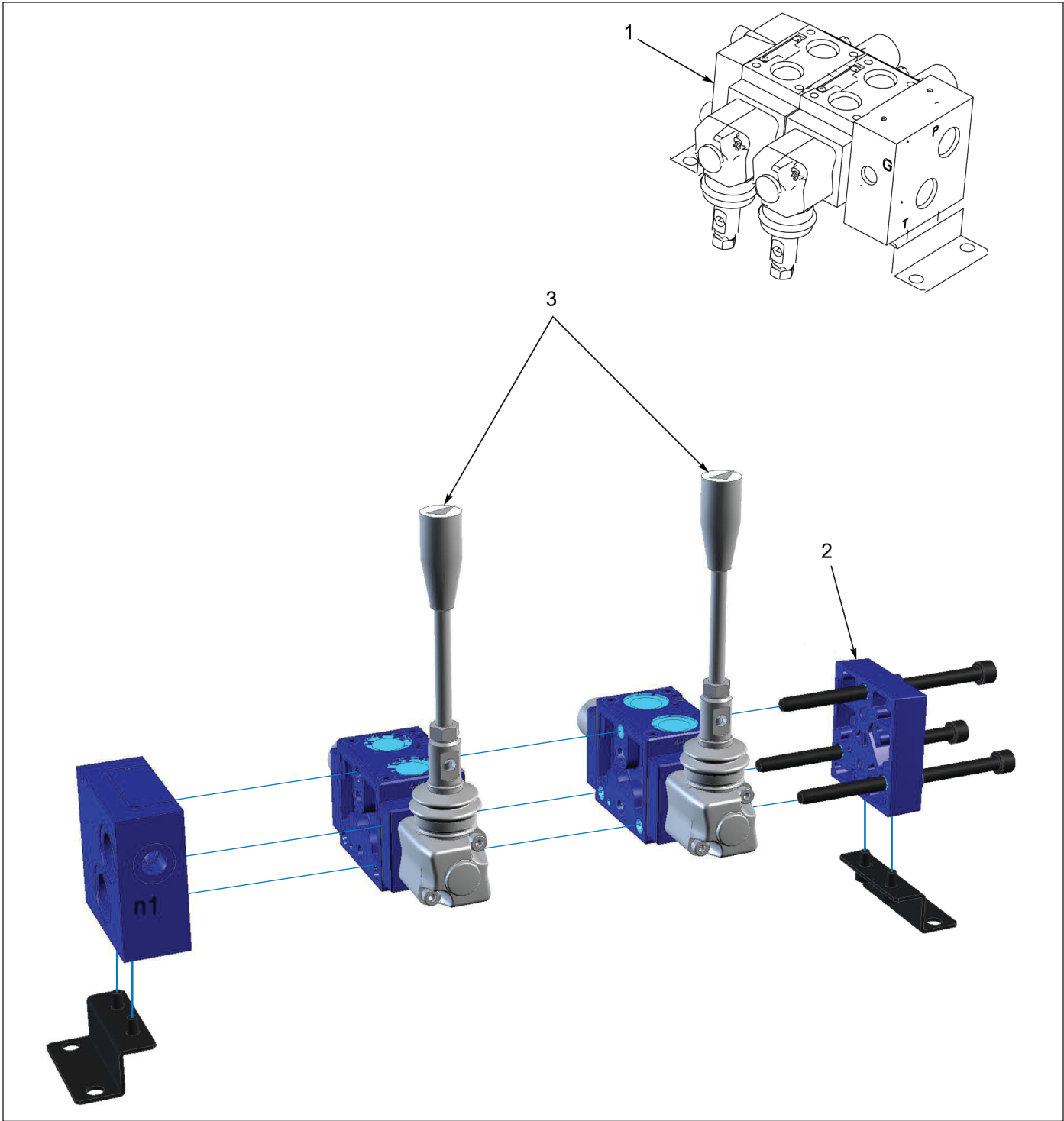


Figure 1-69: Dock Leveler Valve

Dock Leveler Valve

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
1	189260	-----	DOUBLE SPOOL STACK VALVE-PARALLEL,	1
2	193448	R933009220	SPOOL POSITIONER SPRING CENTER	1
3	-----	-----	HANDLE	1
4	193342	R987367243	SEAL KIT (NOT SHOWN)	1

Air Digital Scales - Options

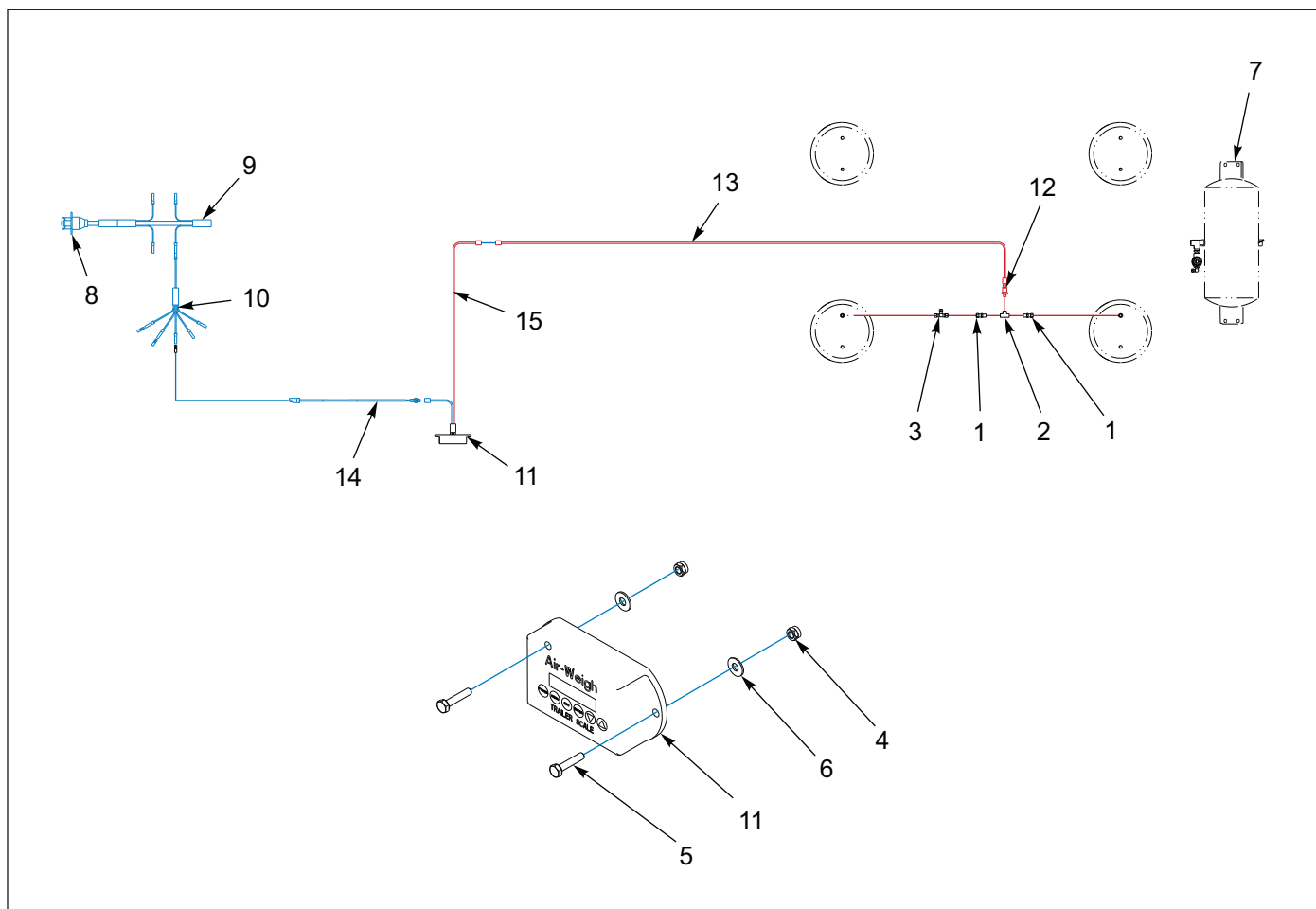


Figure 1-70: Air Digital Scale - Loadmaxx System

Air Digital Scale - Loadmaxx System

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

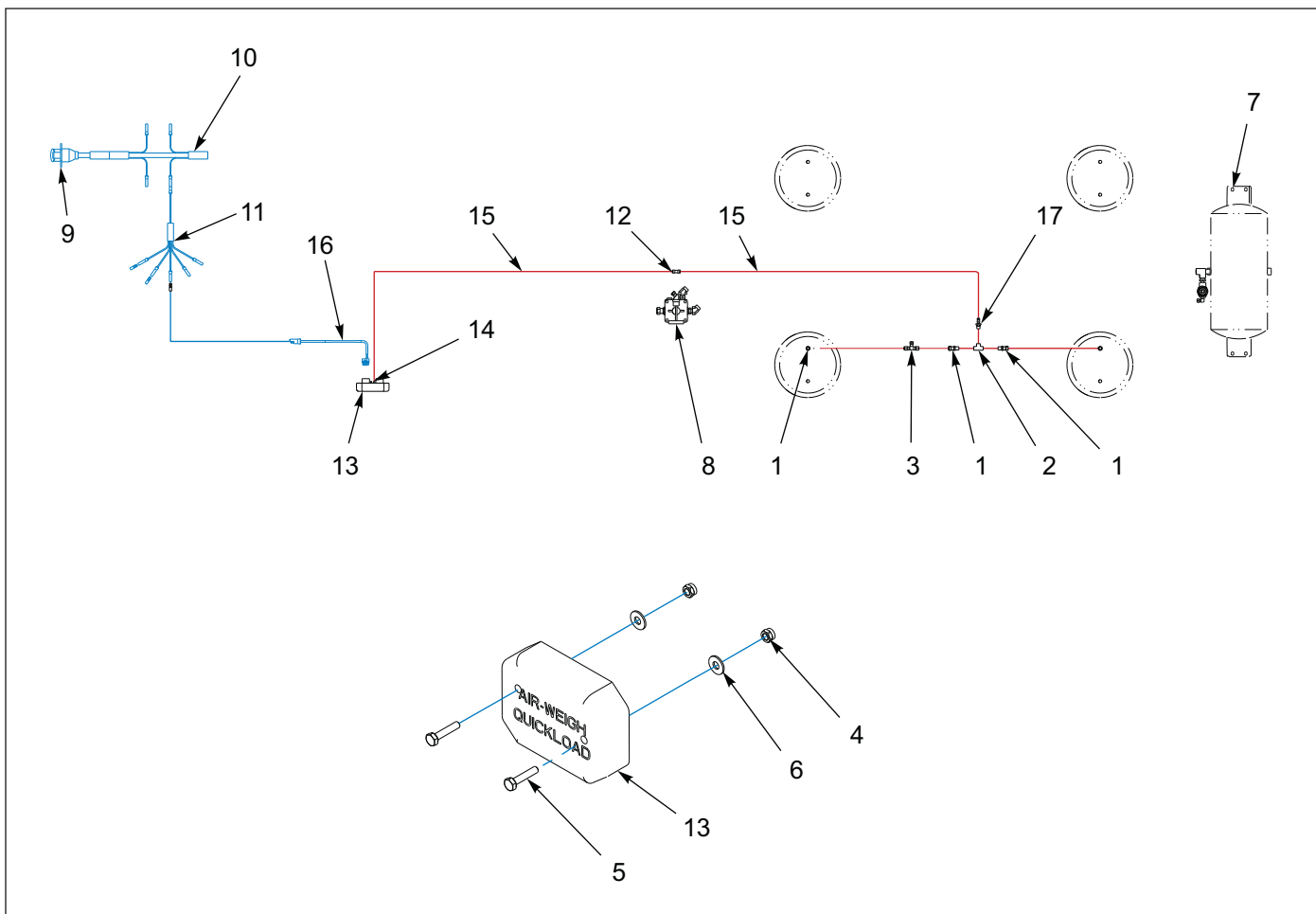


Figure 1-71: Air Digital Scale - Quickload System

Air Digital Scale - Quickload System

ITEM	PART NO.	DESCRIPTION	QTY.
	175358	SCALE INSTALLATION, QUICKLOAD SYSTEM	
1	1-297-010007-11	FITTING AIR	2
2	1-297-010009-02	FITTING, AIR PIPE TEE	1
3	1-297-010010-04	FITTING AIR UNION TEE	REF
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	REF
5	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	REF
6	1-861-010032-07	WASHER, FLAT 1/4	REF
7	----	SUSPENSION, AIR RLU A/R	REF
8	141607	AIR BOOSTER VALVE ASSEMBLY (SEE PAGE 1-25)	REF
9	143100	HARNESS, 7 WAY RECEPTACLE	REF
10	143101	HARNESS, FRONT MAIN	REF
11	150093	HARNESS, 5 AUXILIARY BRANCHES	REF
12	175359	UNION, AIR HOSE	1
13	175360	SCALE, AIR QL ,TRAVEL AXLE MODIFIED (ITEMS 14-17)	1
14	175363	SPRING HOSE CLAMP	1
15	175365	AIR LINE	1
16	184392	CABLE, TRAILER, POWER, BLUNT CUT, 15'	1
17	180221	HOSE BARB FITTING, BRASS	1

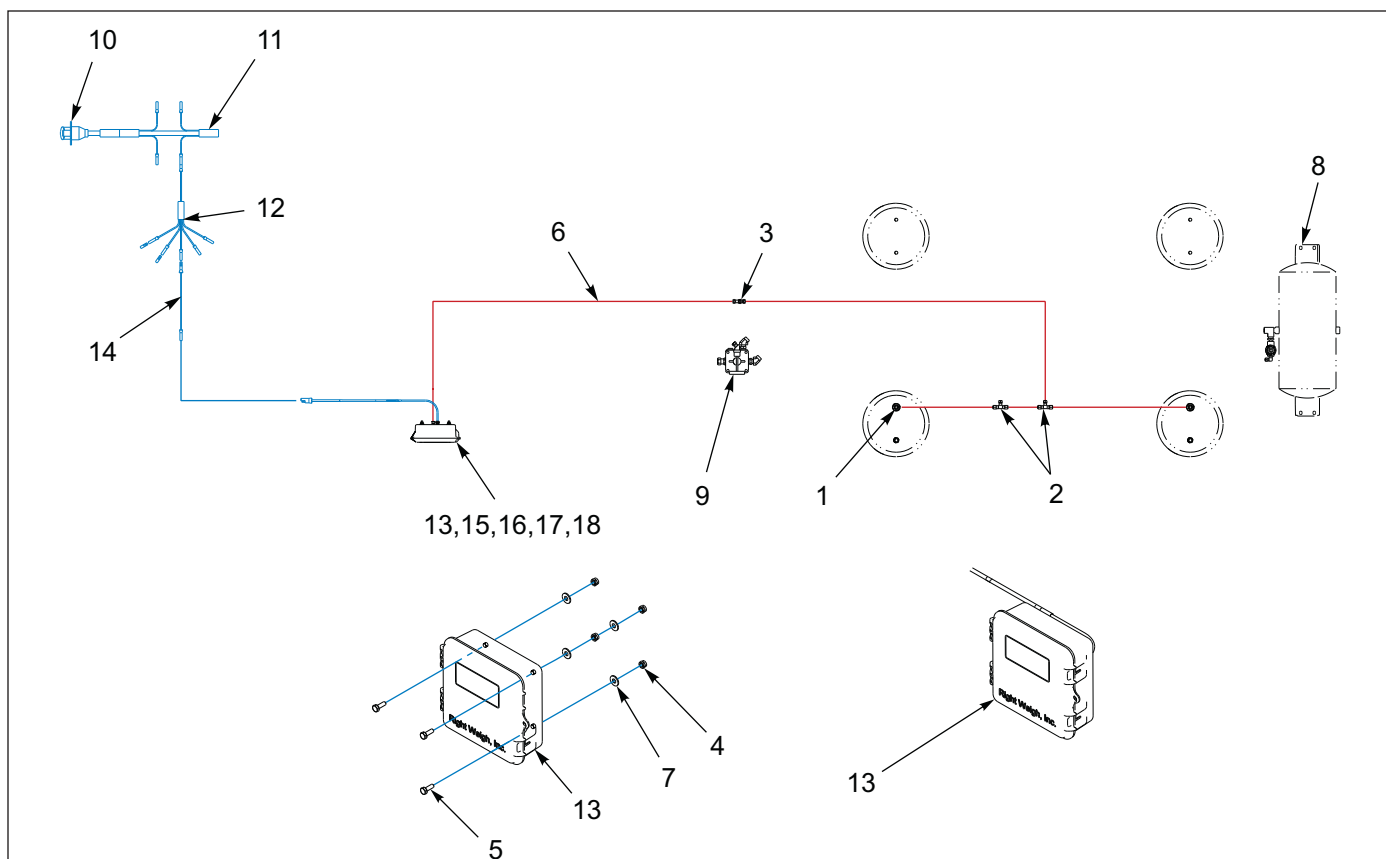


Figure 1-72: Air Digital Scale - Right Weigh System

Air Digital Scale - Right Weigh System

ITEM	PART NO.	DESCRIPTION	QTY.
	170470	SCALE INSTALLATION, RIGHT WEIGH SYSTEM	
	205742	SCALE INSTALLATION, RIGHT WEIGH SYSTEM W/ BLUETOOTH	
1	1-297-010007-11	FITTING AIR	2
2	1-297-010010-04	FITTING AIR UNION TEE	REF
3	1-297-010014-02	FITTING, AIR	1
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	REF
5	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	24
6	1-833-010001	TUBING NYLON 1/4 OD	AR
7	1-861-010032-07	WASHER, FLAT 1/4	REF
8	-----	SUSPENSION, AIR RLU A/R	REF
9	141607	AIR BOOSTER VALVE ASSEMBLY (SEE PAGE 1-25)	REF
10	143100	HARNESS, 7 WAY RECEPTACLE	REF
11	143101	HARNESS, FRONT MAIN	REF
12	150093	HARNESS, 5 AUXILIARY BRANCHES	REF
13	170471	HARNESS ASSEMBLY, RIGHT WEIGH (USED W/ 170470)	1
13	205744	HARNESS ASSEMBLY, RIGHT WEIGH (USED W/ 205742)	1
14	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
15	171159	DIGITAL SCALE (USED W/ 170470)	1
15	205747	DIGITAL SCALE W/ BLUETOOTH (USED W/ 205742)	1
16	171160	DIGITAL INSTALLATION KIT	1
17	171161	MOUNTING BOX, BRACKET, AND HARDWARE	1
18	1-297-010008-07	FITTING, AIR, 90 1/4 TUBE X 1/4 NPT	1

Bulkheads - Options

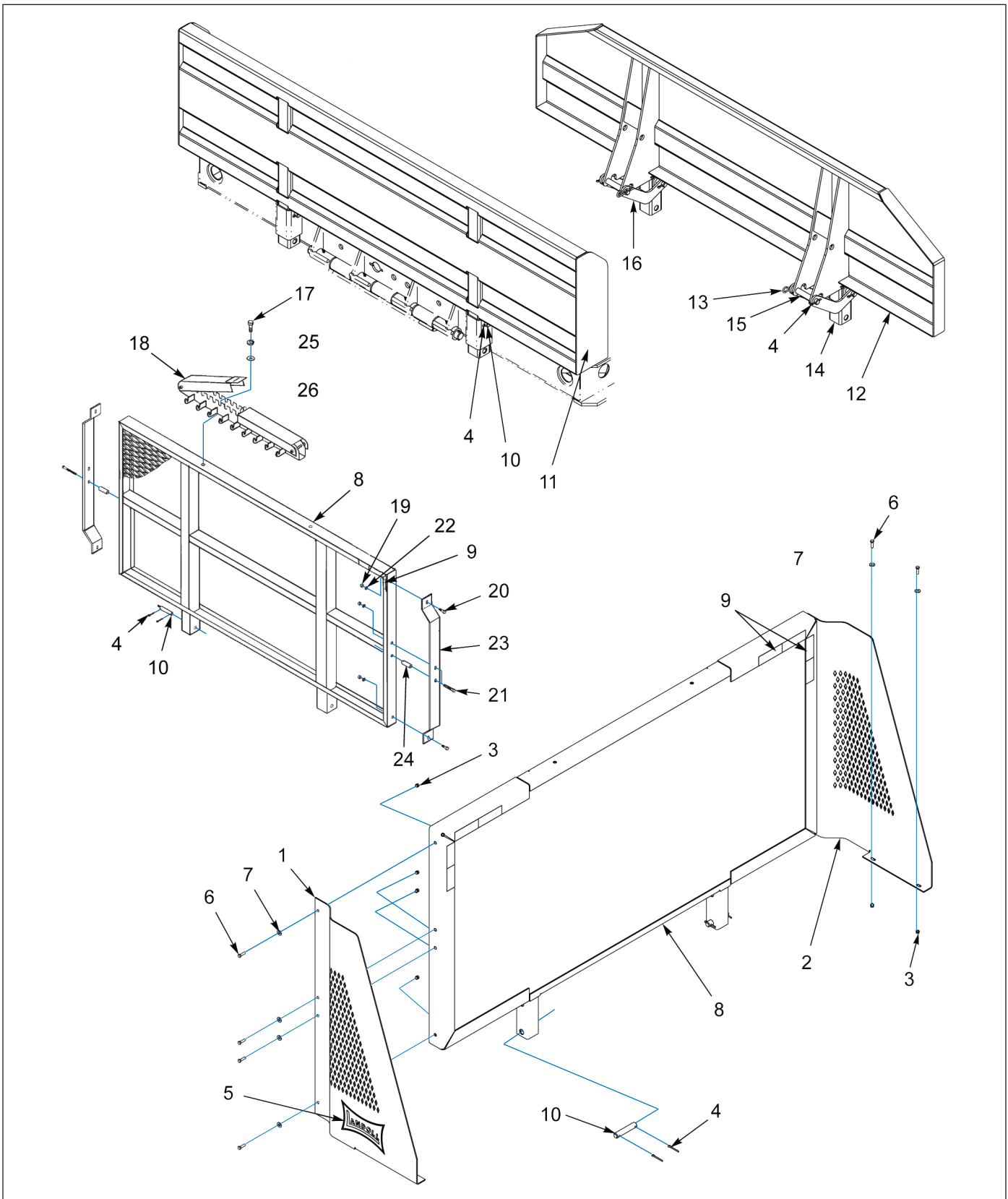


Figure 1-73: Bulkhead Options

Bulkhead Assembly

ITEM	PART NO.	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)	*	
	130895	BULKHEAD INSTALLATION, SPECIAL (ITEMS 1-10)	*	
	216921	ACCESSORY RACK INSTALLATION 48 X 51-1/2		*
1	128137	EXTENSION, BULKHEAD ALUM LH	1	--
	128153	EXTENSION, BULKHEAD LH	1	--
2	128138	EXTENSION, BULKHEAD ALUM RH	1	--
	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	--
	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	AR	49 IN
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

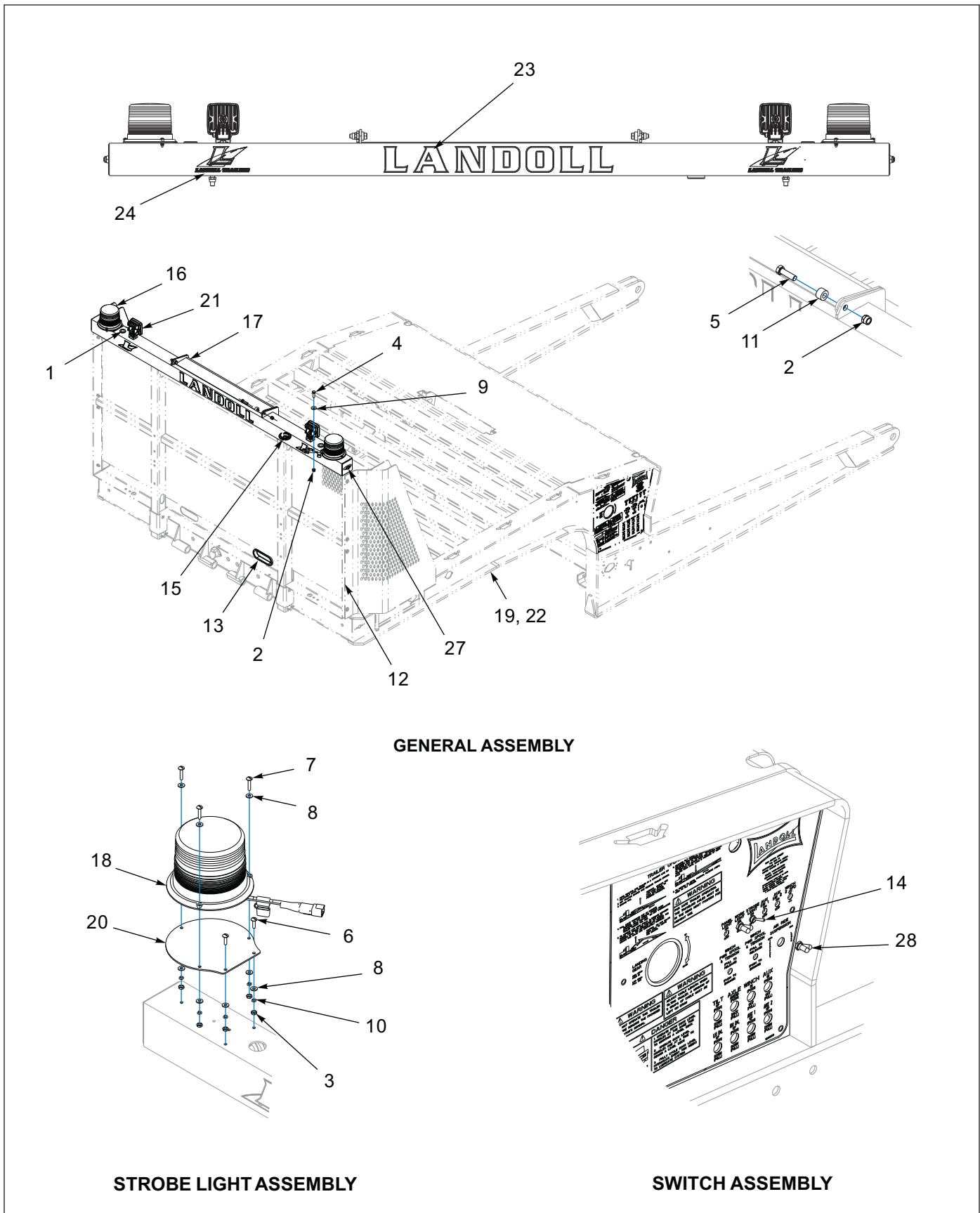
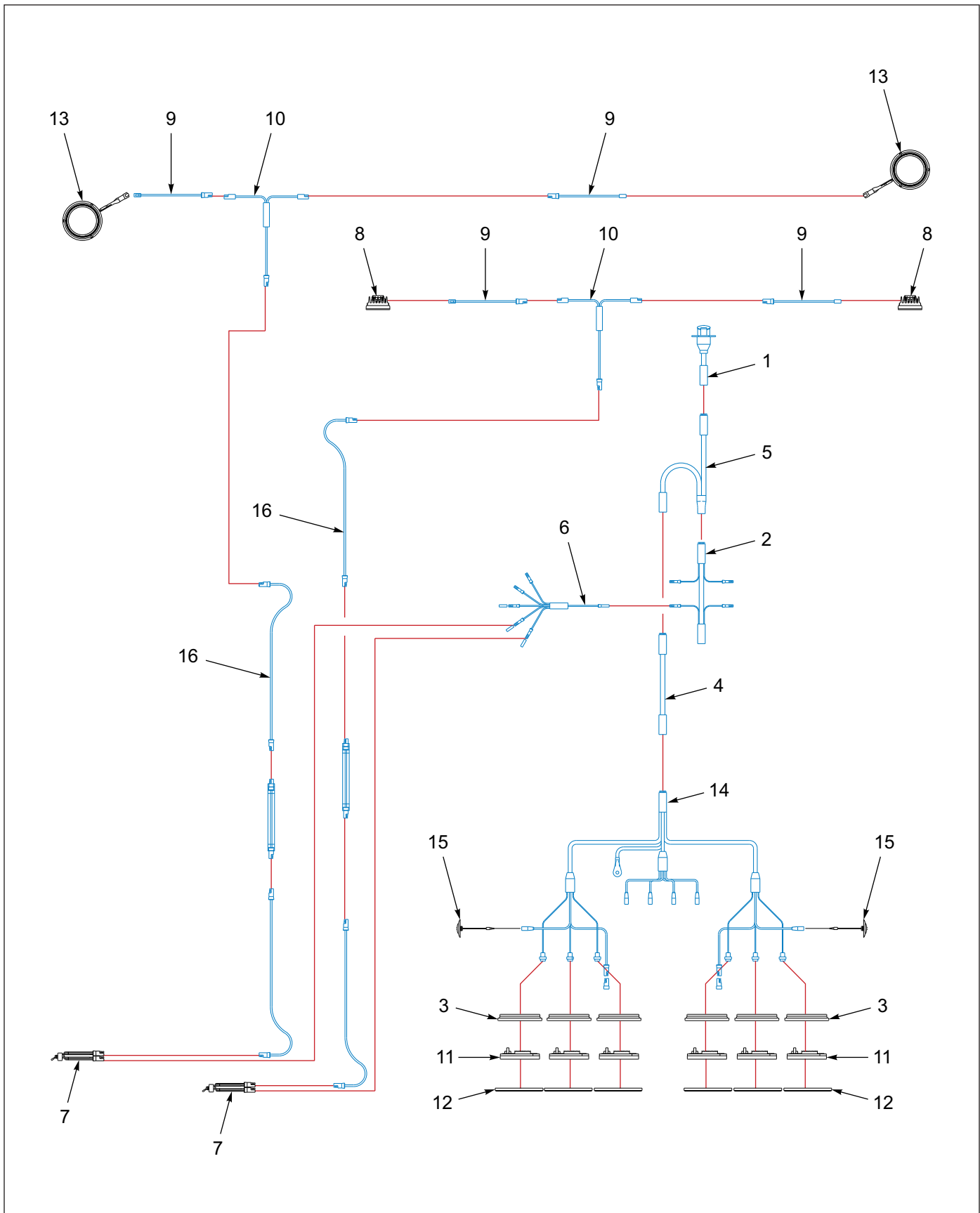


Figure 1-74: Bulkhead - Chain Rack Lights General Assembly

Bulkhead - Chain Rack Lights General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.	
	214408	BULKHEAD CHAIN RACK S/T/T WL	*	
	214409	BULKHEAD CHAINRACK S/T/T WL BC	*	
1	1-343-010006	GROMMET	2	2
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4
3	1-512-010007-03	NUT, HEX 10-24	--	10
4	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2	2
5	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2	2
6	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	--	4
7	1-656-010003053	SCREW RD HD MACH 10-24X1	--	6
8	1-861-010032-03	WASHER, FLAT #10 ZP/CD	--	16
9	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2	2
10	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	--	10
11	125799	SPACER, 10D X 1/2 ID X .632	2	2
12	128136	BULKHEAD INSTALLATION	REF	REF
13	143114	GROMMET OVAL GROTE	1	1
14	150117	SWITCH ASSY LIGHT GROTE	REF	REF
15	153102	GROMMET MOUNT 2-5/16" GROTE	1	1
16	163996	LIGHT,12V SQUARE LED FLOOD	REF	REF
17	167975	LID WLDMT CHAIN BINDER	1	1
18	184501	STROBE LIGHT DEUTSCH CONN	--	REF
19	186901	GOOSENECK WLDMT, US 400	REF	REF
20	187863	LIGHT YEL LED.75CL/MK CLEAR CB	REF	REF
21	191545	PLATE BEACON MOUNTING	--	2
22	193456	DECAL LANDOLL 28-5/16 X 3-7/32	1	1
23	81264	RUBBER BOOT FOR ELECT SWITCH	1	2
24	191811	TUBE WLDMT BHD TPPR 3/4 IN. DIA.		
25	191872	WLDMT G/N 400A HD		
26	196765	DECAL HIGHWAY L		
27	213295	LIGHT S/T/T RED CLEAR LENS GROTE		
28	213296	FLANGE CHROME FLAT OBLONG		
29	213297	LIGHT YEL LED .75CL/MK CLEAR CB		



Bulkhead - Chain Rack Lights Electrical System

ITEM	PART NO.	DESCRIPTION	QTY.	
	214408	BULKHEAD CHAIN RACK S/T/T WL	*	
	214409	BULKHEAD CHAINRACK S/T/T WL BC	*	
1	143100	HARNESS 7WAY RECP GROTE	REF	REF
2	143101	HARNESS FRONT MAIN GROTE	REF	REF
3	143167	HARNESS EXT 84 IN GROTE	1	1
4	146929	HARNESS Y SPLITTER GROTE	1	1
5	150093	HARNESS 5 AUX BRANCHES GROTE	REF	REF
6	150117	SWITCH ASSY LIGHT GROTE	1	2
7	163996	LIGHT,12V SQUARE LED FLOOD	2	2
8	164052	HARNESS,60"BRANCH,WORK LIGHT	2	4
9	169853	HARNESS T PWR BRANCH	1	2
10	184501	STROBE LIGHT DEUTSCH CONN	--	2
11	187859	HARNESS BUMPER MICRONOVA GROTE	1	1
12	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2	4
13	213295	LIGHT S/T/T RED CLEAR LENS GROTE		
14	213296	FLANGE CHROME FLAT OBLONG		
15	213297	LIGHT YEL LED .75CL/MK CLEAR CB		
16	43029	HOSE WRAP AEROQUIP 1/4		

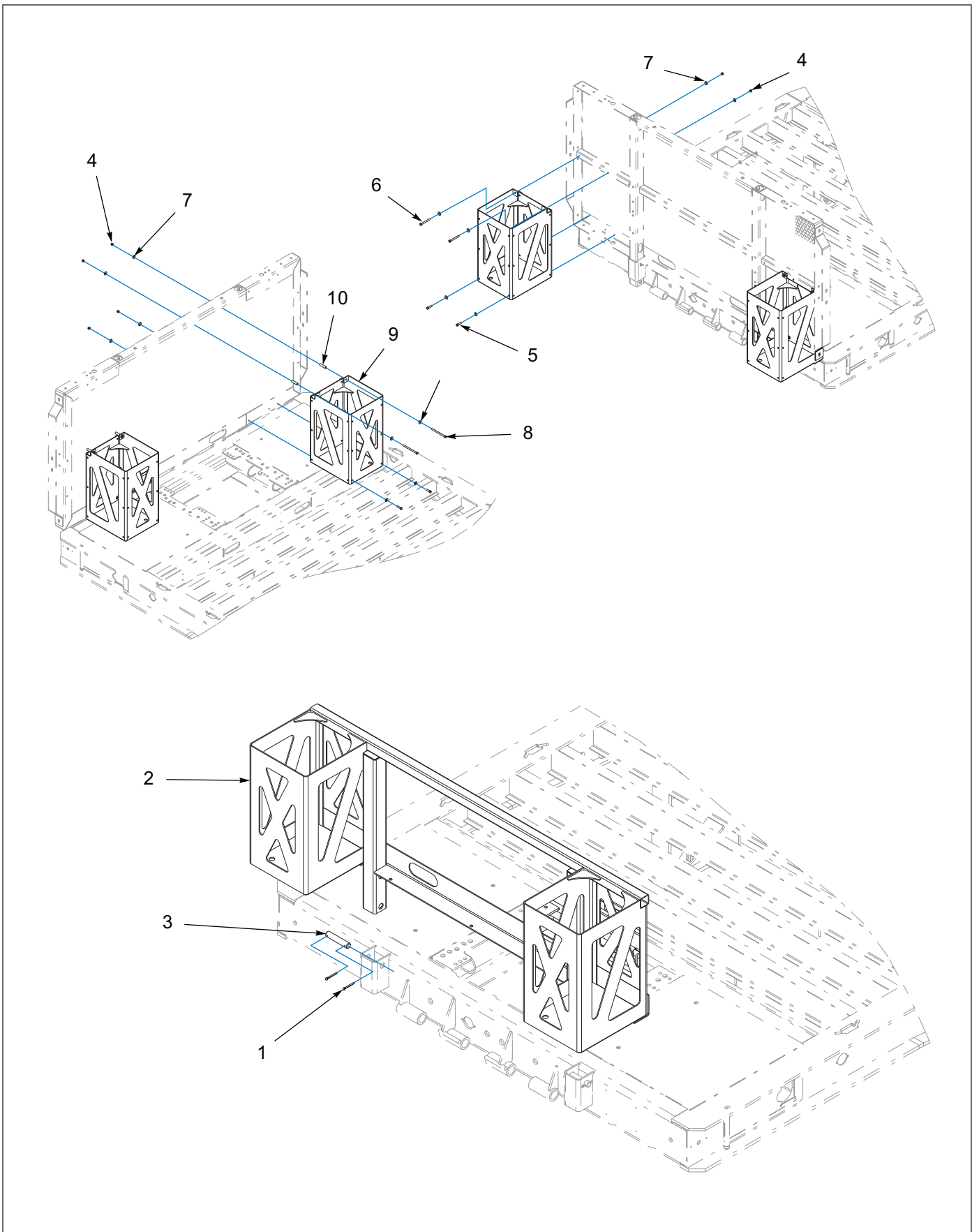


Figure 1-76: Bulkhead Installation - Special

Bulkhead Installation - Special

ITEM	PART NO.	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
10v	204094	TUBE, ROUND, .5625 OD X .397 ID X 2.25	--	--	2

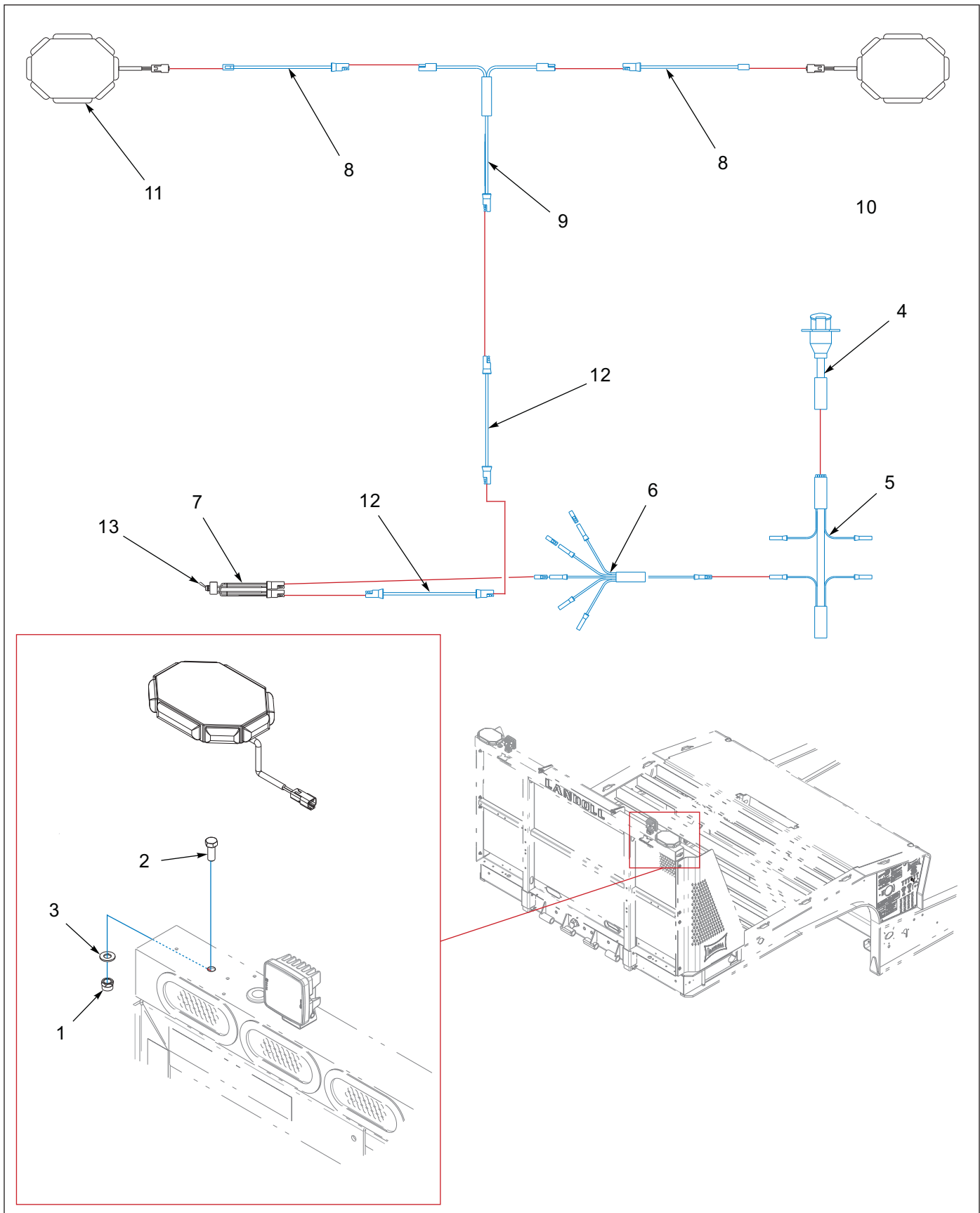


Figure 1-77: Towmate Strobe Installation

Towmate Strobe Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	215522	BLKHD TWMT 360 STROBE INSTALLATION	
1	I-512-010005-09	NUT,HEX, SLFLKG, I/ 2-13 UNC,GRB	2
2	I-654-010055-02	SCREW. HEX, 1/2-1 3U CXI-I/4 GR5	2
3	I-861-010032-14	WASHER,FLAT,Z P/CD I /ZN	2
4	143100	HARNESS 7WAY RECP GROTE	REF
5	143101	HARNESS FRON T MA IN GROTE	REF
6	150093	HARNESS 5 AUX BRANCHES GROTE	REF
7	I50 I I 7	TOGGLE SWITC SEALED S.P.S.T.	1
8	164052	HARNESS 60 IN. BRANCH WORK LIGHT	2
9	169853	HARNESS JUMPER T-POWER	1
10	214406	BLKHD CHAIN R:CK LIGHTS	REF
11	215521	TOWMATE MINI 60 LE D STROBE	2
12	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2
13	81264	RUBBER BOOT FOR ELECT SWITCH	1

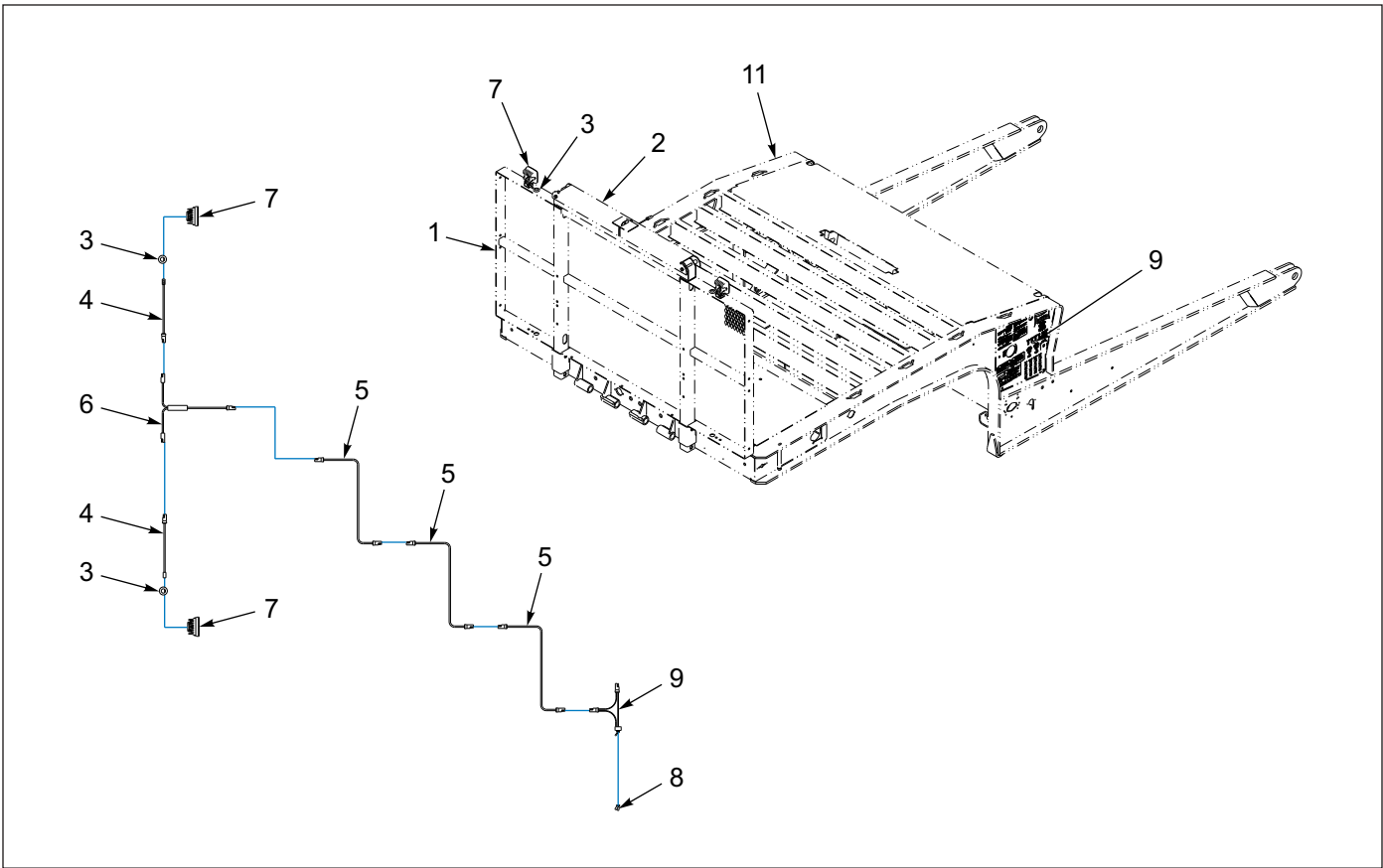


Figure 1-78: Bulkhead - Work Light Installation

Bulkhead - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.	
	191813	WORK LIGHT INSTL, BULKHEAD	*	
	191814	WORK LIGHT HD INSTL, BULKHEAD	*	
1	3-141-010155	BULKHEAD WELDMNT	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
11	186901	WLDMT, GOOSENECK, US 400	REF	REF

Bumpers - Options

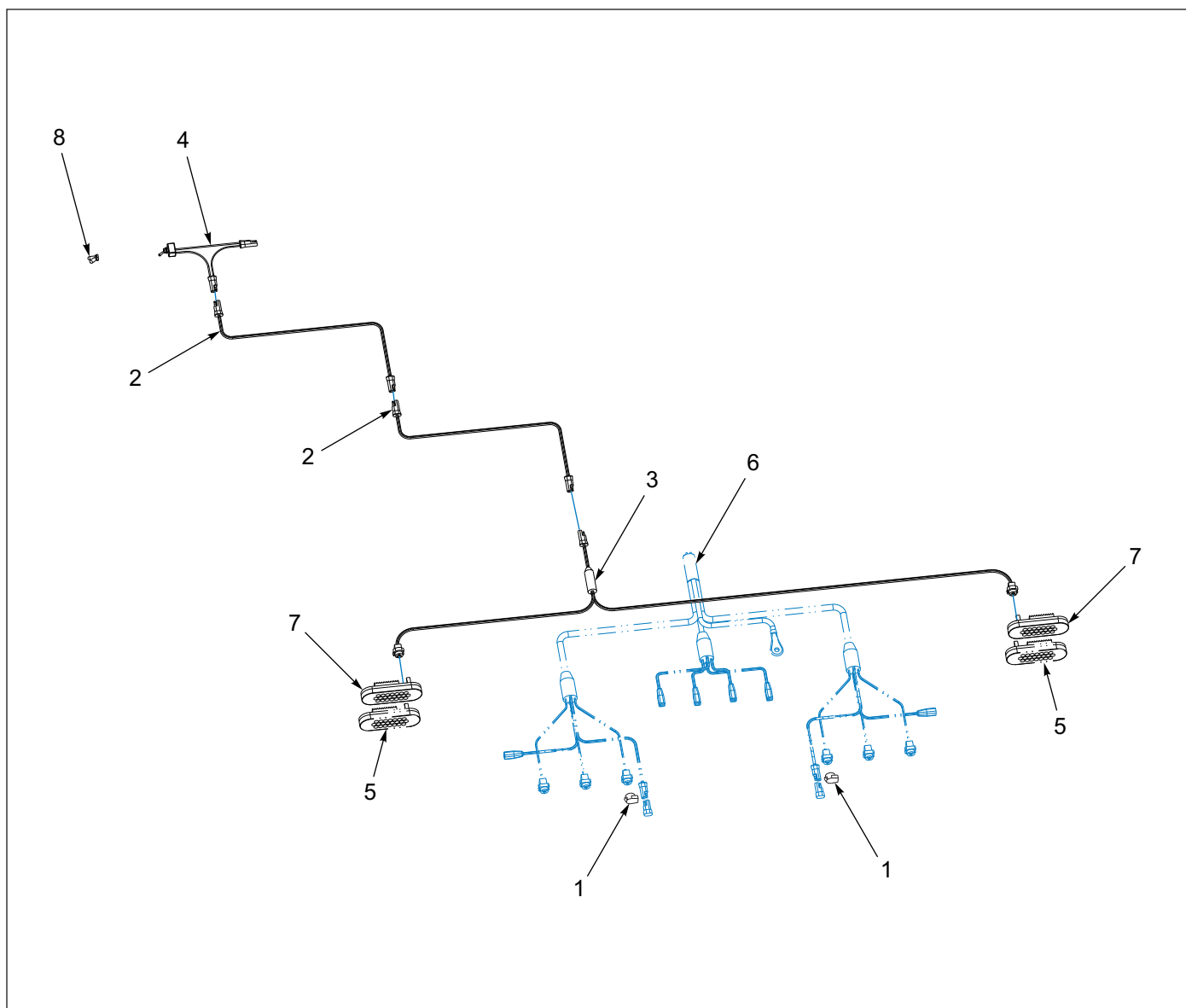


Figure 1-79: Bumper - Strobe Installation - Option

Bumper - Strobe Installation - Option

ITEM	PART NO.	DESCRIPTION	QTY.
	191834	STROBE INSTL BUMPER GROTE	
1	144608	DUMMY PLUG FOR FEMALE PLUG	2
2	150111	HARNESS 300 IN MALE.FEMALE	2
3	150114	HARNESS BUMPER STROBE GROTE	1
4	150117	SWITCH ASSY LIGHT GROTE	1
5	179902	LIGHT S/T/T RED CLEAR LENS GRT	2
6	187859	HARNESS BUMPER MICRONOVA GROTE	REF
7	187869	LIGHT STROBE YEL CLEAR LENS GR	2
8	81264	RUBBER BOOT FOR ELECT SWITCH	1
9	191835	STROBE INSTALLATION KIT (NOT SHOWN)	REF

Electrical Installation - Options

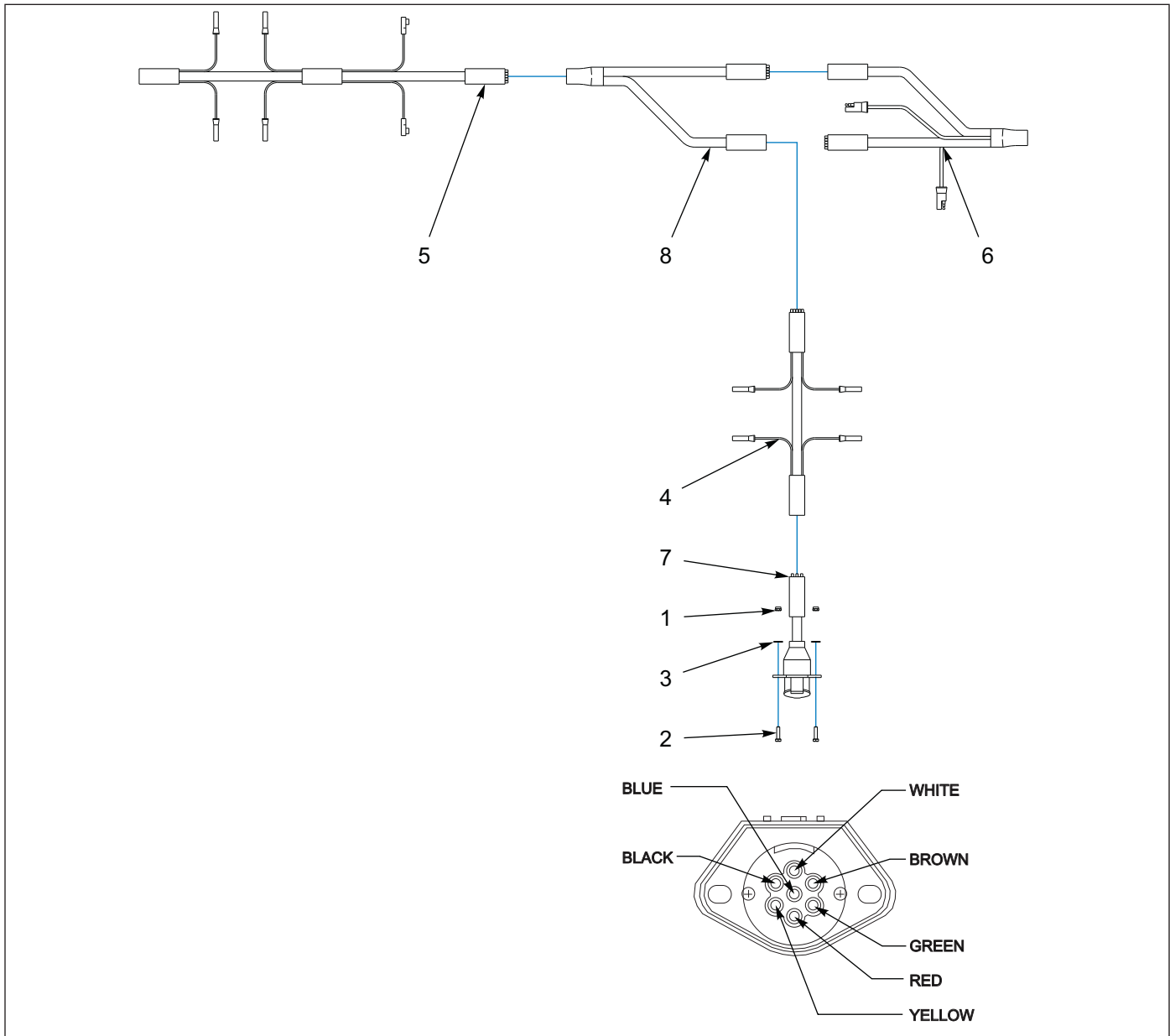


Figure 1-80: 7-Way Electrical Installation

7-Way Electrical Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	148585	7-WAY ELECTRICAL INSTALLATION	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143101	HARNESS, FRONT MAIN	1
5	143102	HARNESS, BED MAIN	REF
6	143103	HARNESS, E-CHAIN	REF
7	146897	HARNESS, 7-WAY RECEPTACLE MAIN	1
8	146929	HARNESS, Y SPLITTER	1

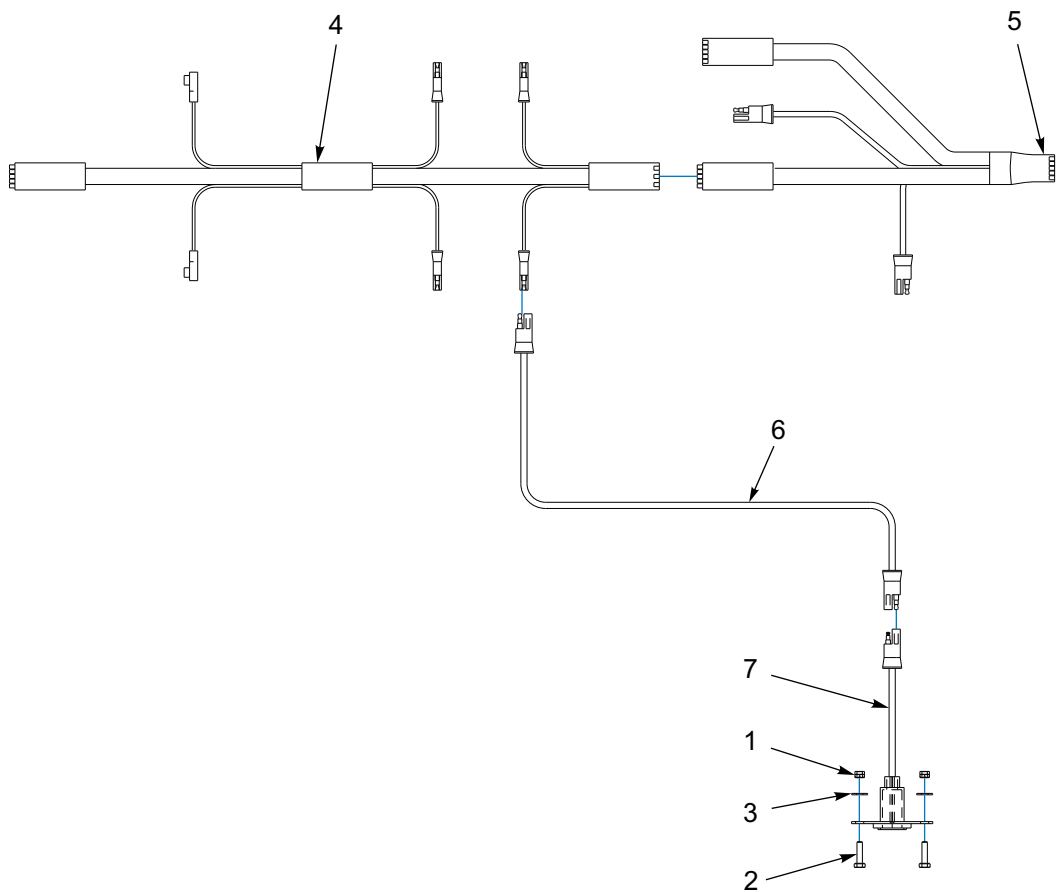


Figure 1-81: Rear Side Electrical Outlet Installation

Rear Side Electrical Outlet Installation

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

Engines - Options

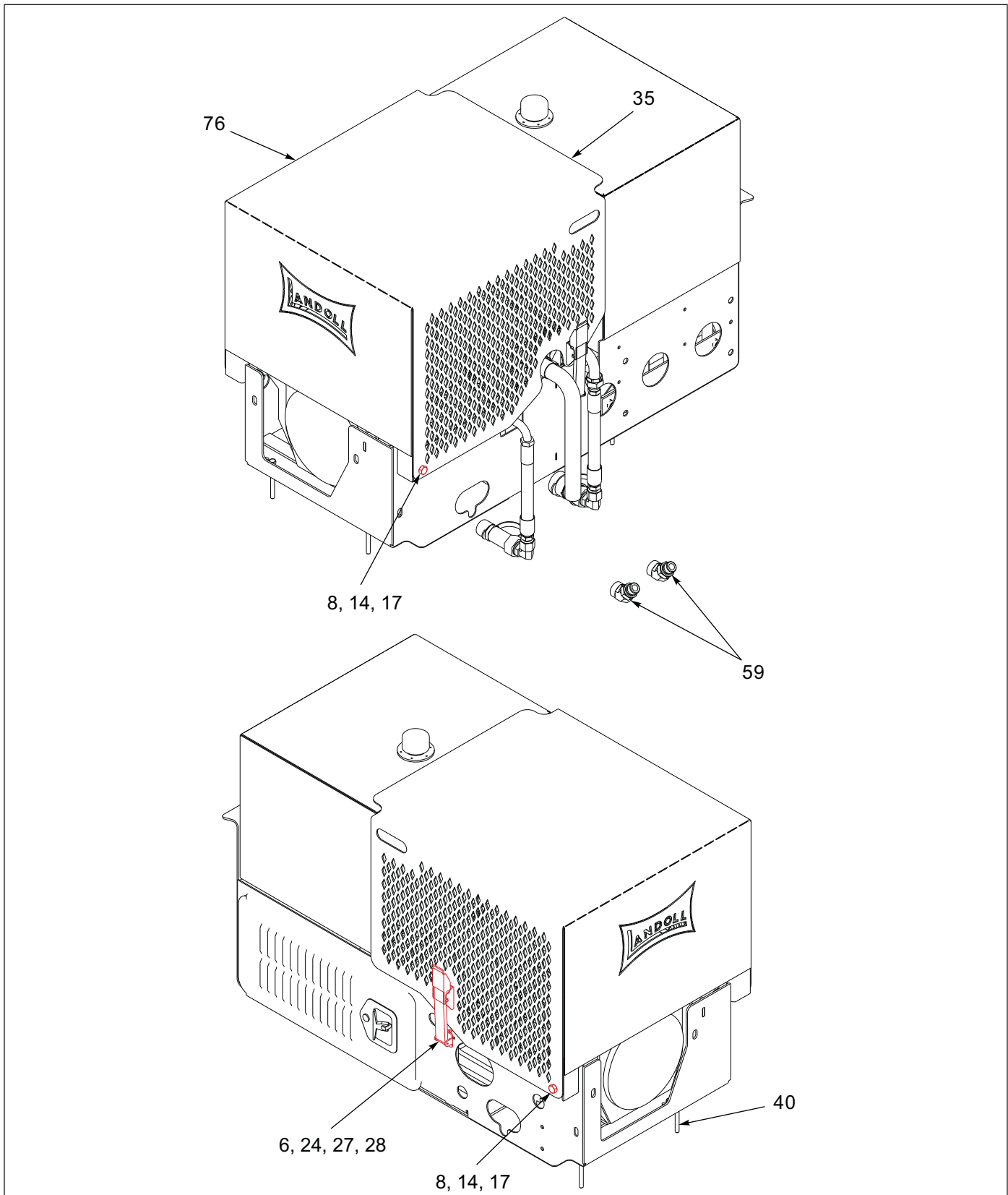


Figure 1-82: Engine - 25 HP Upper Deck Package (1 of 4)

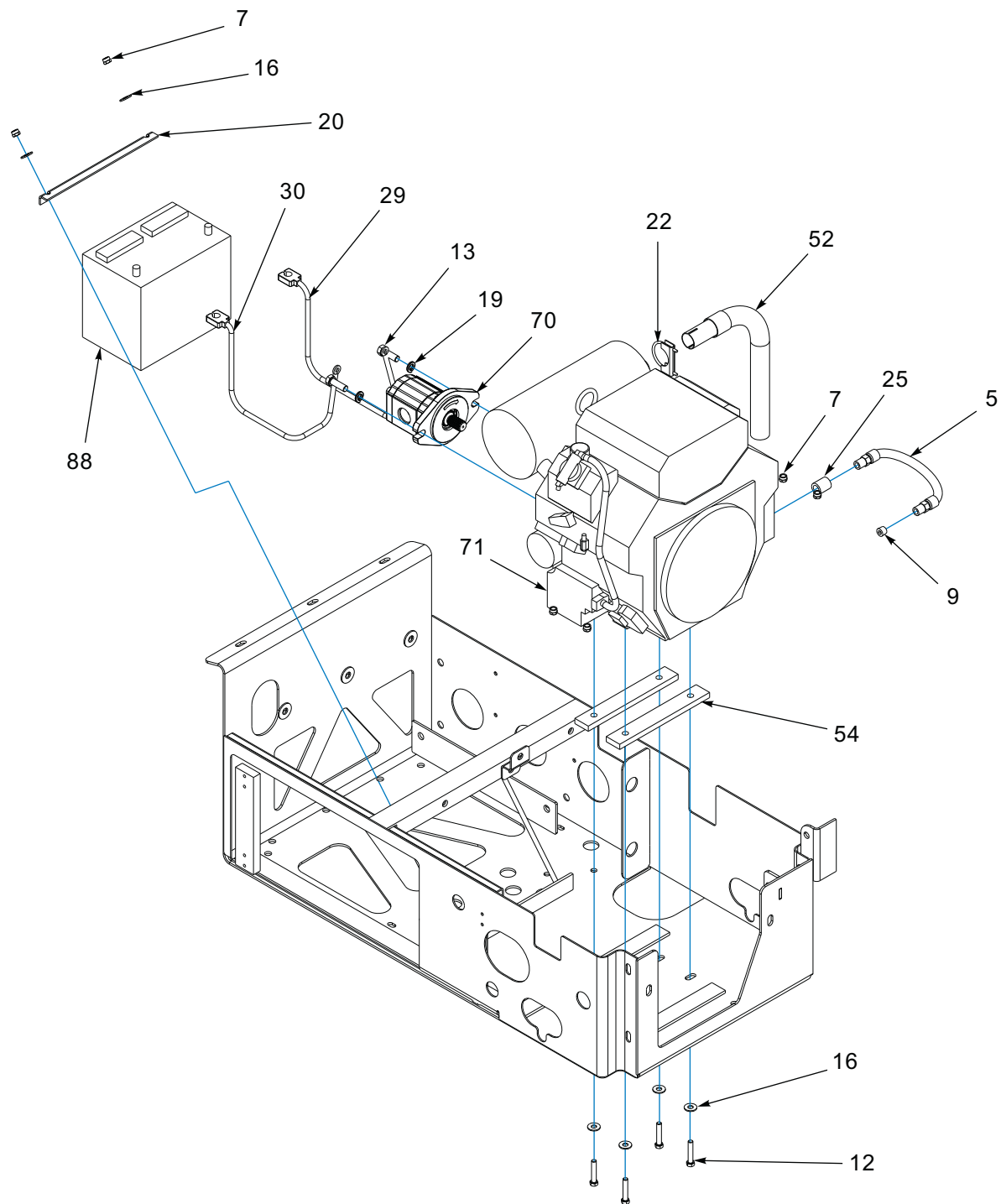
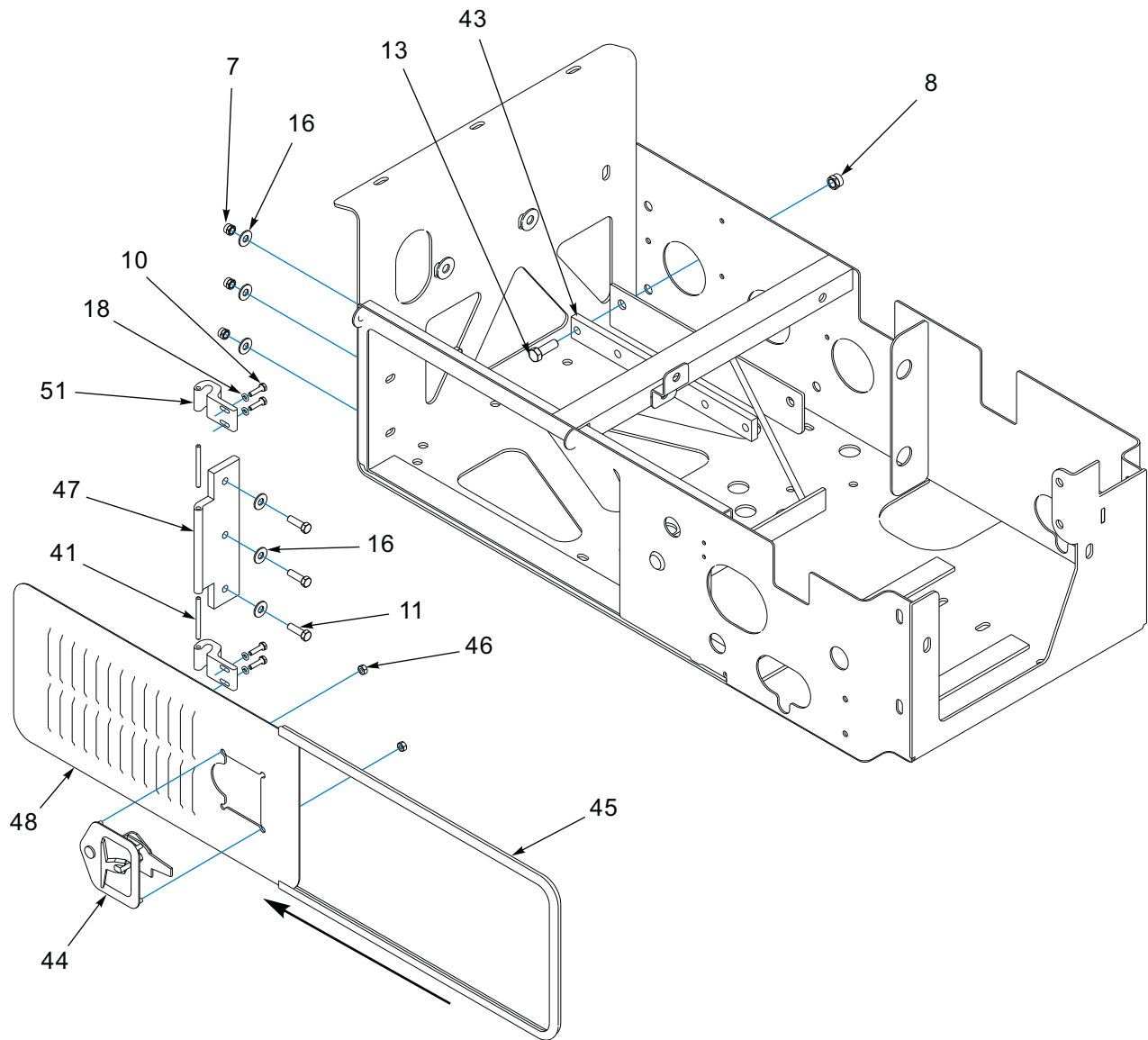
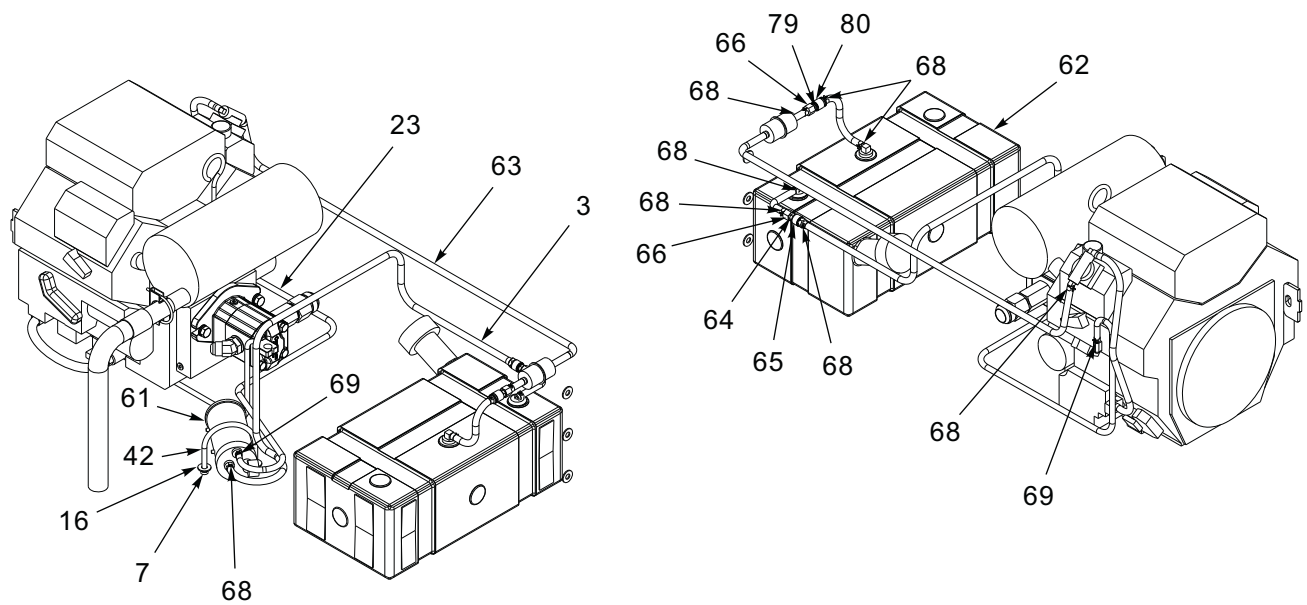


Figure 1-83: Engine - 25 HP Upper Deck Package (2 of 4)

**BASE - DOOR ASSEMBLY****Figure 1-84: Engine - 25 HP Upper Deck Package (3 of 4)**



FUEL SYSTEM INSTALLATION

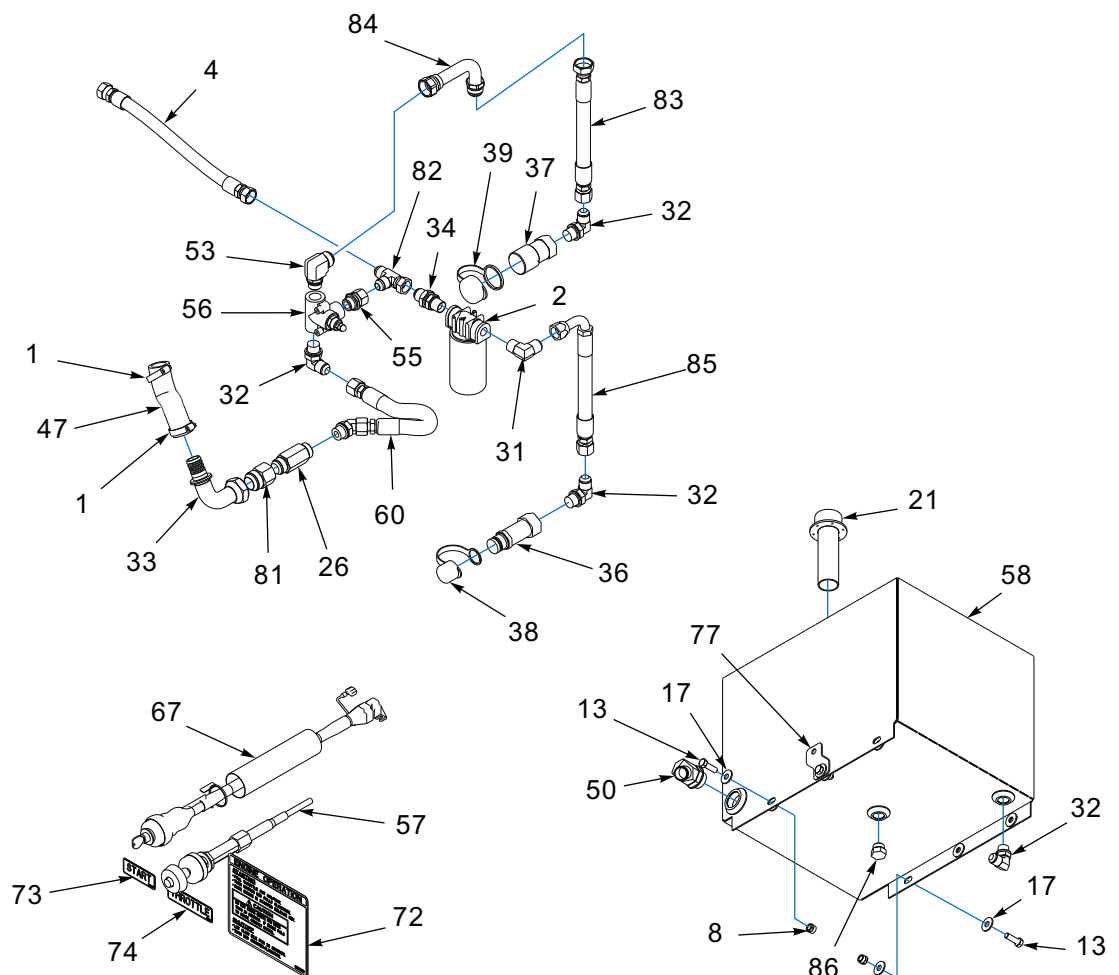


Figure 1-85: Engine - 25 HP Upper Deck Package (4 of 4)

Engine - 25 HP Upper Deck Package

ITEM	PART NO.	DESCRIPTION	QTY.
	189360	ENGINE PACKAGE, 25HP EFI, U/D	
	189360FI	FIELD INSTL ENG PKG, 25 HP EFI, U/D	
1	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
2	1-295-010001	FILTER, RETURN LINE	1
3	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL	5
4	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
5	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
6	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
7	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
8	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
9	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
10	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
11	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
12	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
13	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
14	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2
15	1-822-010002	TRIM-LOK 3/16 (NOT SHOWN)	6
16	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	22
17	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	20
18	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
19	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
20	3-120-010124	BATTERY CLAMP BRKT	1
21	3-162-010001	FILLER BREATHER STRAINER ASSY	1
22	3-182-010028	CLAMP MUFFLER	1
23	3-316-010008	3/16 ID FUEL HOSE	3
24	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
25	3/8P COUPL	3/8 BLK PIPE COUPLING	1
26	40-0667-02	ELBOW,45,,ST-37 12-12	1
27	110-0116	SCREW RD HD CAP 10-24X3/4	8
28	110-0253	WASHER,FLAT 3/16 STD	8
29	514-9045-30	CABLE ASSY BATTERY	1
30	514-9073-30	CABLE ASSY BATTERY	1
31	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
32	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	4
33	2215-16-20S	ADAPTER-16JIC-20JIC STR	1
34	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
35	10030	SEAL,BAR STOCK-NEOPRENE SPNG	2
36	105479	COUPLER FLAT FACE MALE NOSE	1
37	105480	COUPLER FLAT FACE FEMALE BODY	1
38	105481	COUPLER DUST CAP MALE	1
39	105482	COUPLER DUST CAP FEMALE	1
40	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
41	108601	PIN, DOOR HINGE	2
42	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
43	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
44	114814	LATCH FOLDING T LOCKABLE	1
45	114815	SEAL, SPONGE RUBBER TRIM	5
46	115877	NUT HVY HEX 1/4-20 GR5	4

Engine - 25 HP Upper Deck Package

ITEM	PART NO.	DESCRIPTION	QTY.
47	116326	HINGE,BASE MNT, COM ENG PKG	1
48	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
49	116330	FITTING 1.25F 37-1.25 BARB 90	1
50	117873	FITTING,1.63-12 SAE-1 25H/B45	1
51	119206	HINGE, DOOR ENG DRV, 25HP	2
52	119445	EXHAUST EXT WLDMT 25HP E/P	1
53	120384	ADAPTER,#16JICX#12ORB,90ELB	1
54	120659	ISOLATOR, KOHLER 25HP MOUNT	2
55	120660	ADAPTER #12-O/RFEM-12#FL M	1
56	120661	VALVE,HYD PRES,#12SAE,2500P	1
57	128774	CABLE, THROTTLE 40'	1
58	129264	HYD TANK WLDMT, 30G E/P	1
59	138209	ADAPTER HYD 45#12 MALE-FEMORB	2
60	143850	HOSE ASSY 3/4X35OAL #12F JIC	1
61	166766	CARBON CANISTER,FUEL TANK,GAS	1
62	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM	1
63	169532	HOSE, FUEL,1/4 LOW PERM, CARB	5
64	170109	FITTING,1/4MPT TO MALE QD,FORC	1
65	170110	FITTING,5/16BARB TO FE QD,FORC	1
66	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
67	178428	SWITCH/HARNESS ASSY KOHLER UD	1
68	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
69	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
70	186811	PUMP HYDRAULIC GEAR 0.77CID	1
71	189308	ENGINE,KOHLER,25HP,EFI,PUMP	1
72	189309	DECAL,EFI ENG PKG INSTR	1
73	189310	DECAL, START, ENG PKG	1
74	189311	DECAL, THROTTLE, ENG PKG	1
75	189361	WLDMT,ENG PKG MT, 25HP EFI (NOT SHOWN)	1
76	189364	WLDMT,HOOD,ENG PKG,25HP EFI	1
77	189369	PLATE,FUEL HOSE CLAMP	1
78	193904	HOSE, 1-1/4 X 7-1/2, SUCTION	1
79	170111	FITTING,1/4MPT TO MALE QD,SUZU (BEFORE 10-1-16)	1
	202225	FITTING 1/4 MNPT/MALE QD (AFTER 10-1-16)	1
80	170112	FITTING,5/16BARB TO FE QD,SUZU (BEFORE 10-1-16)	1
	202226	FITTING5/16 HOSEBARB/FEMALE QD (AFTER 10-1-16)	1
81	202713-16-16S	ADAPTER-160-RING-16JIC STR	1
82	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
83	205709	HOSE ASSY 3/4 X 60 JIC #12-#16	1
84	205710	ADAPTER, 37-37 JIC, 90, 16S	1
85	205712	HOSE ASSY 3/4 X 60,#12 SAE 37	1
86	900598-12S	PLUG, O-RING BOSS #12	1
87	1410792	OIL, ENGINE 10W-30	0.5
88	2481X	BATTERY 12 VOLT (USED W/ 189360)	1
89	2481X_DRY	BATTERY,248IX, NO ACID (USED W/ 189360FI)	1
90	199105	FUEL FILTER KOHLER, 25-050-42-S (NOT SHOWN)	1
91	210377	FUEL PUMP KOHLER (NOT SHOWN)	1

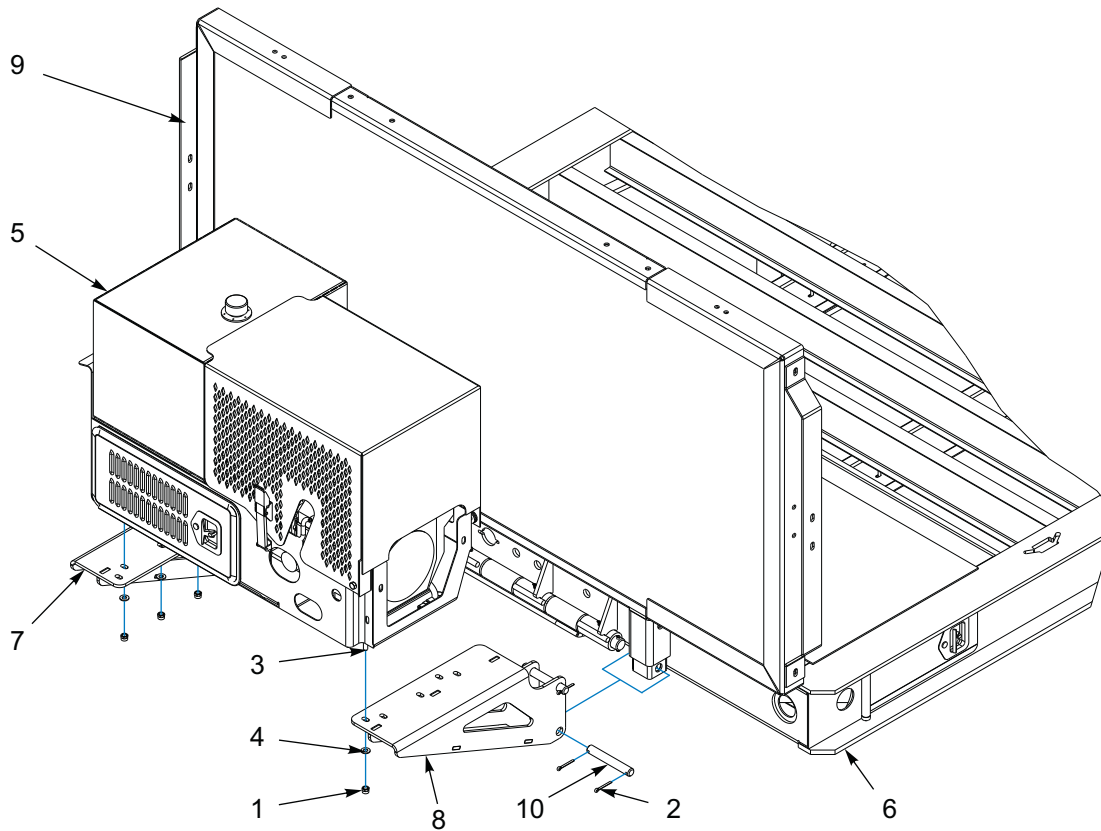


Figure 1-86: Engine - Front Mount Extension Package Installation

Engine - Front Mount Extension Package Installation

ITEM	PART NO.	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 25 HP U/D (SEE PAGE 1-136)	REF
6	-----	FRAME ASSEMBLY, G/N	REF
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 1-123)	REF
10	3-557-010380	PIN, 1 X 6-7/8	4

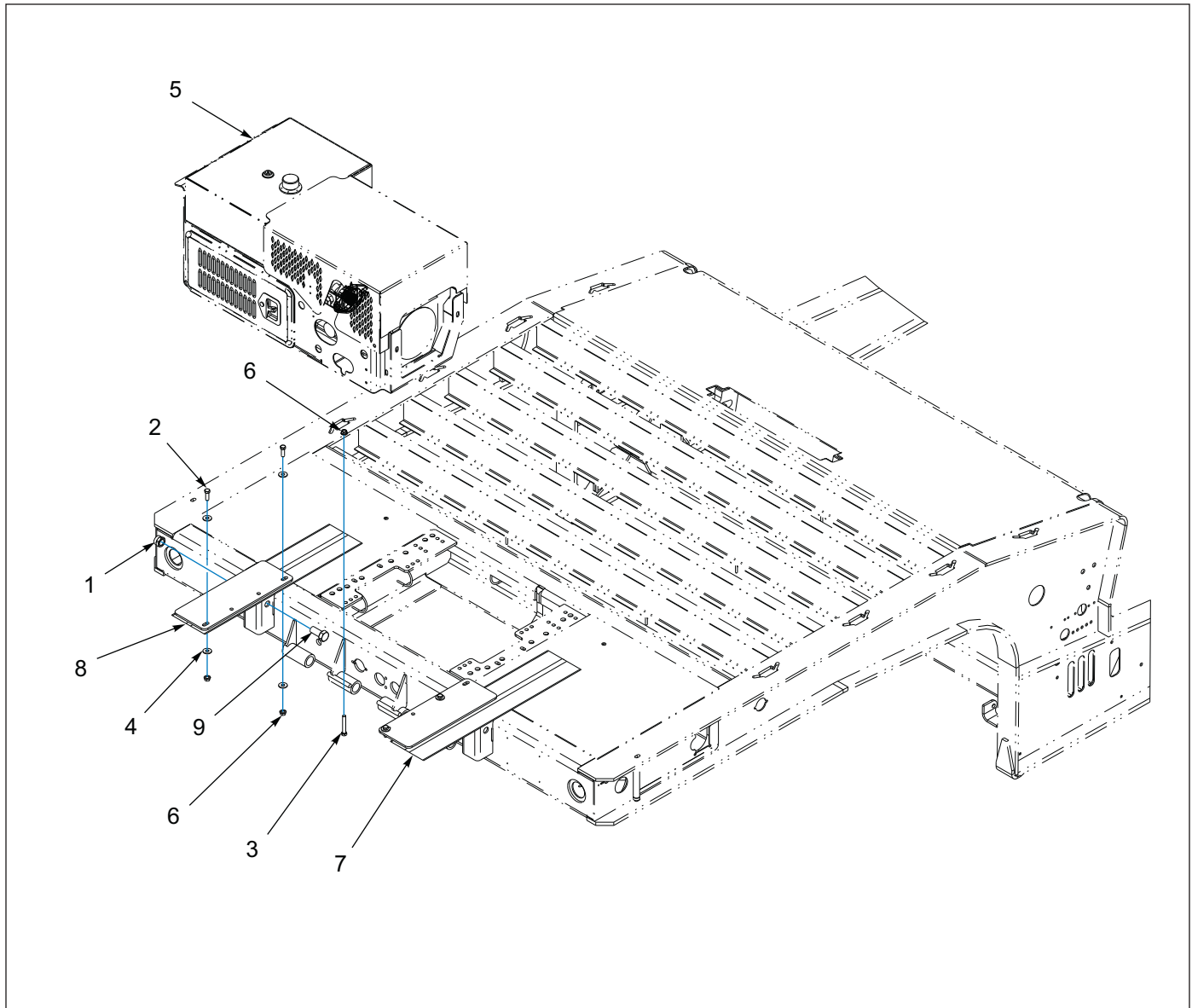


Figure 1-87: Engine - Front Mount Installation

Engine - Front Mount Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	136580	FRONT MOUNT ENGINE INSTALLATION	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
2	1-654-010055-03	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	2
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	123166	ENGINE PACKAGE 25 HP U/D (SEE PAGE 1-136)	REF
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	136581	MOUNT WELDMENT LH FRONT ENGINE PACKAGE	1
8	136582	MOUNT WELDMENT RH FRONT ENGINE PACKAGE	1
9	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

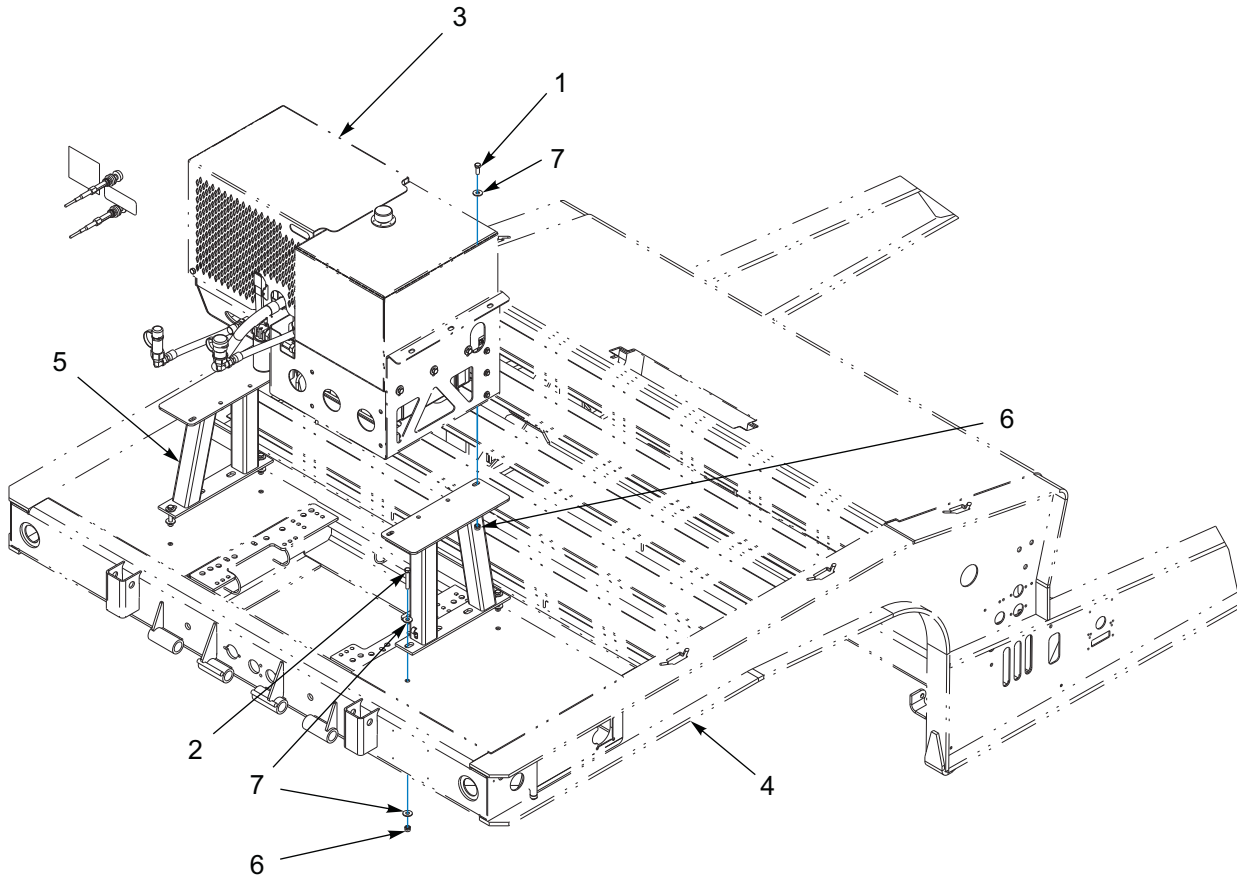


Figure 1-88: Engine - Upper Deck Stand Installation

Engine - Upper Deck Stand Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	136578	UPPER DECK STAND INSTALLATION	
1	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
2	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	4
3	123166	ENGINE PACKAGE, 25 HP GAS (SEE PAGE 1-136)	REF
4	----	UPPER DECK FRAME WELDMENT	REF
5	134857	MOUNT WELDMENT, ENGINE PACKAGE	2
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2W	16

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Hydraulic Kits - Options

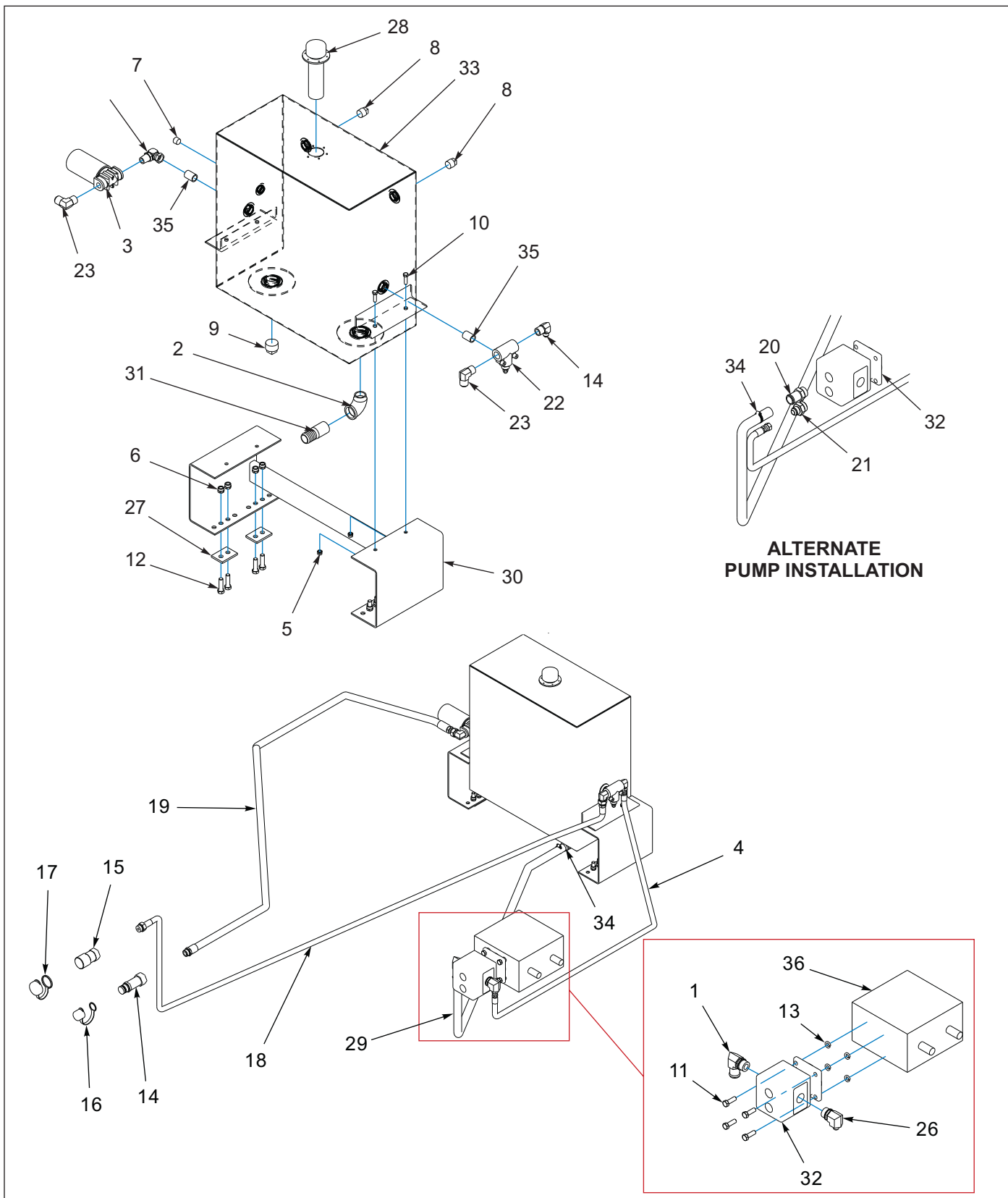
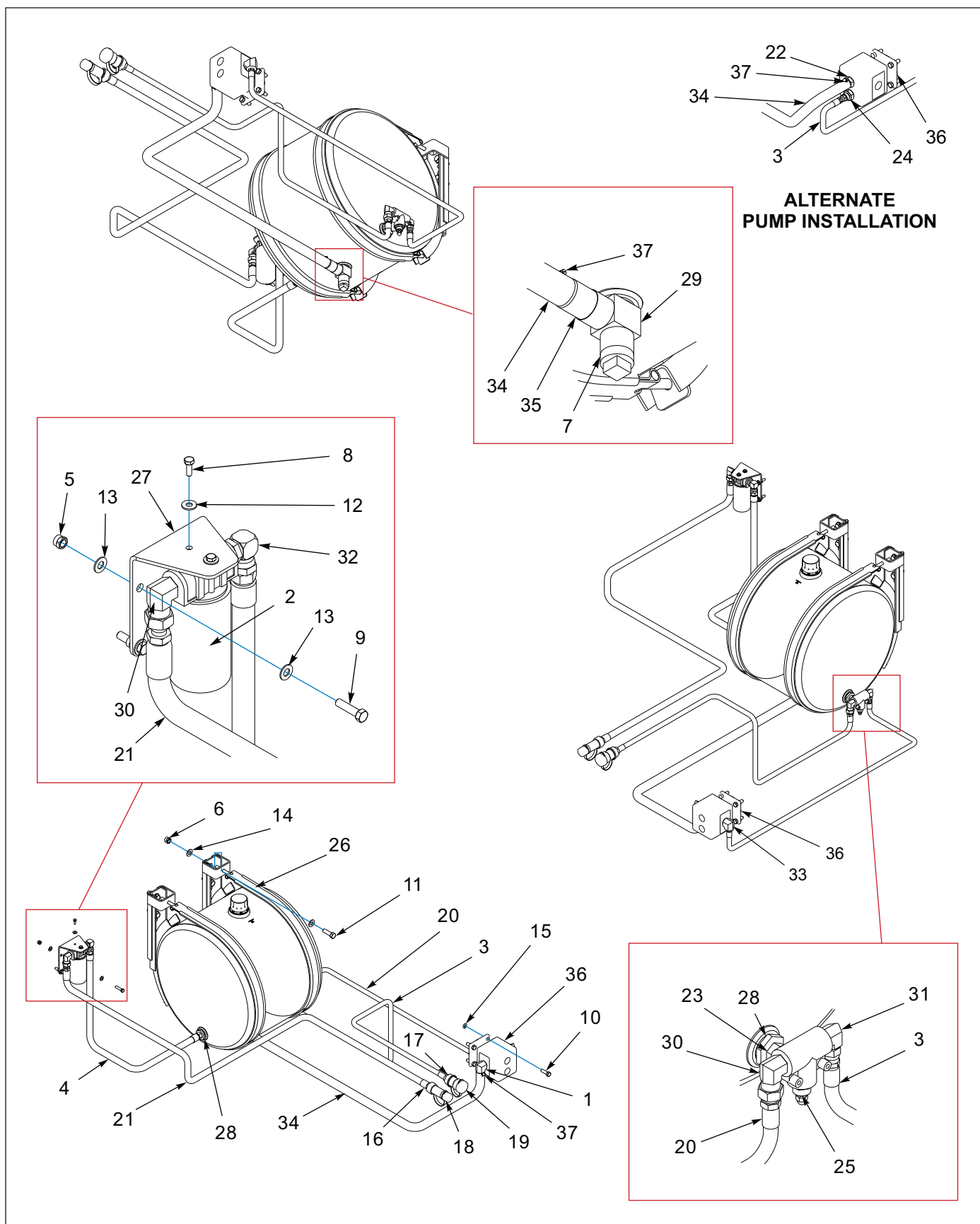


Figure 1-89: Hydraulic Wet Kit Items - 30 Gallon

Hydraulic Wet Kit Items - 30 Gallon

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
2	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
3	1-295-010001	FILTER, RETURN	1
	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	1
15	105480	COUPLER, FLAT FACE FEMALE BODY	1
16	105481	COUPLER, DUST CAP MALE	1
17	105482	COUPLER, DUST CAP FEMALE	1
18	106759	HOSE ASSEMBLY 1/2 X 164	1
19	106760	HOSE ASSEMBLY 3/4 X 164	1
20	107513	ADAPTER	1
21	12-16 070120	ADAPTER	1
22	125130	RD12D HYD BY PASS SRDD	1
23	2024-12-12S	ADAPTER 90	2
24	2024-12-8S	ADAPTER, 90	1
25	2047-12-12S	ELBOW, 90 SWIVEL	1
26	2062-16-8S	ADAPTER, 90	1
27	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
28	3-162-010001	FILLER-BREATH-ER-STRAINER ASSEMBLY	1
29	3-399-010001	HOSE, 1-1/4 SUCTION	8'
30	3-482-010503	TANK MOUNT	1
31	3-561-010001	HOSE BARB 1-1/4	1
32	3-591-010001	HYDRAULIC GEAR PUMP	1
33	3-786-010043	TANK, HYDRAULIC	1
34	6828	IDEAL HOSE CLAMP	2
35	C3069X12	NIPPLE, HEX	2
36	PTO	POWER TAKE OFF	REF



Hydraulic Wet Kit Items - 35 Gallon Aluminum

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

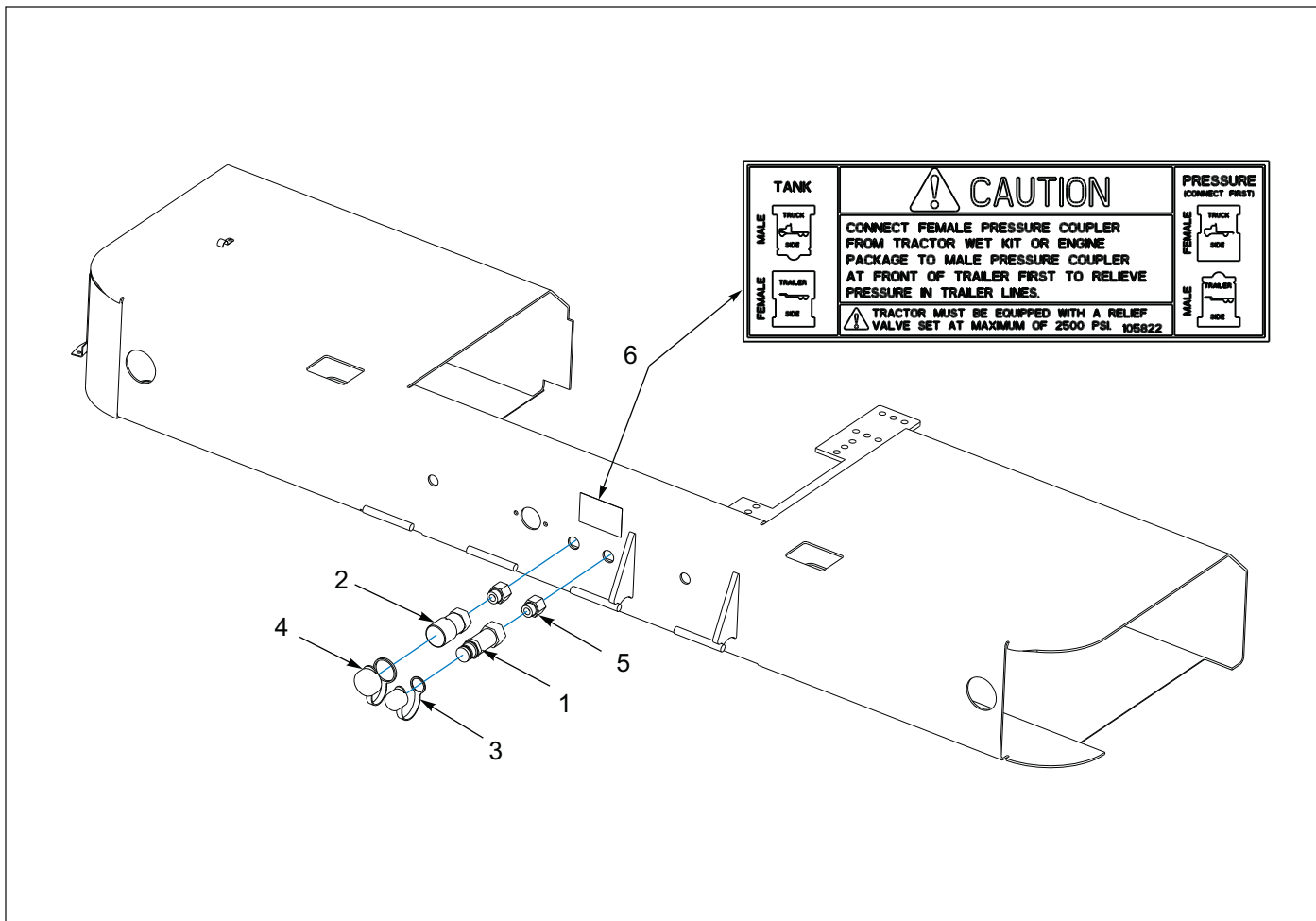


Figure 1-91: Hydraulic Conversion Kit - Ball to Flat

Hydraulic Conversion Kit - Ball to Flat

ITEM	PART NO.	DESCRIPTION	QTY.
	105902	HYDRAULIC CONVERSION KIT, BALL TO FLAT	
1	105479	COUPLER, FLAT FACE MALE NOSE	1
2	105480	COUPLER, FLAT FACE FEMALE BODY	1
3	105481	COUPLER, DUST CAP MALE	1
4	105482	COUPLER, DUST CAP FEMALE	1
5	2216-12-12S	INTERNAL PIPE O-RING BOSS	2
6	105822	DECAL, HYD COUPLER	1

NOTES:

Hydraulic Park Stand

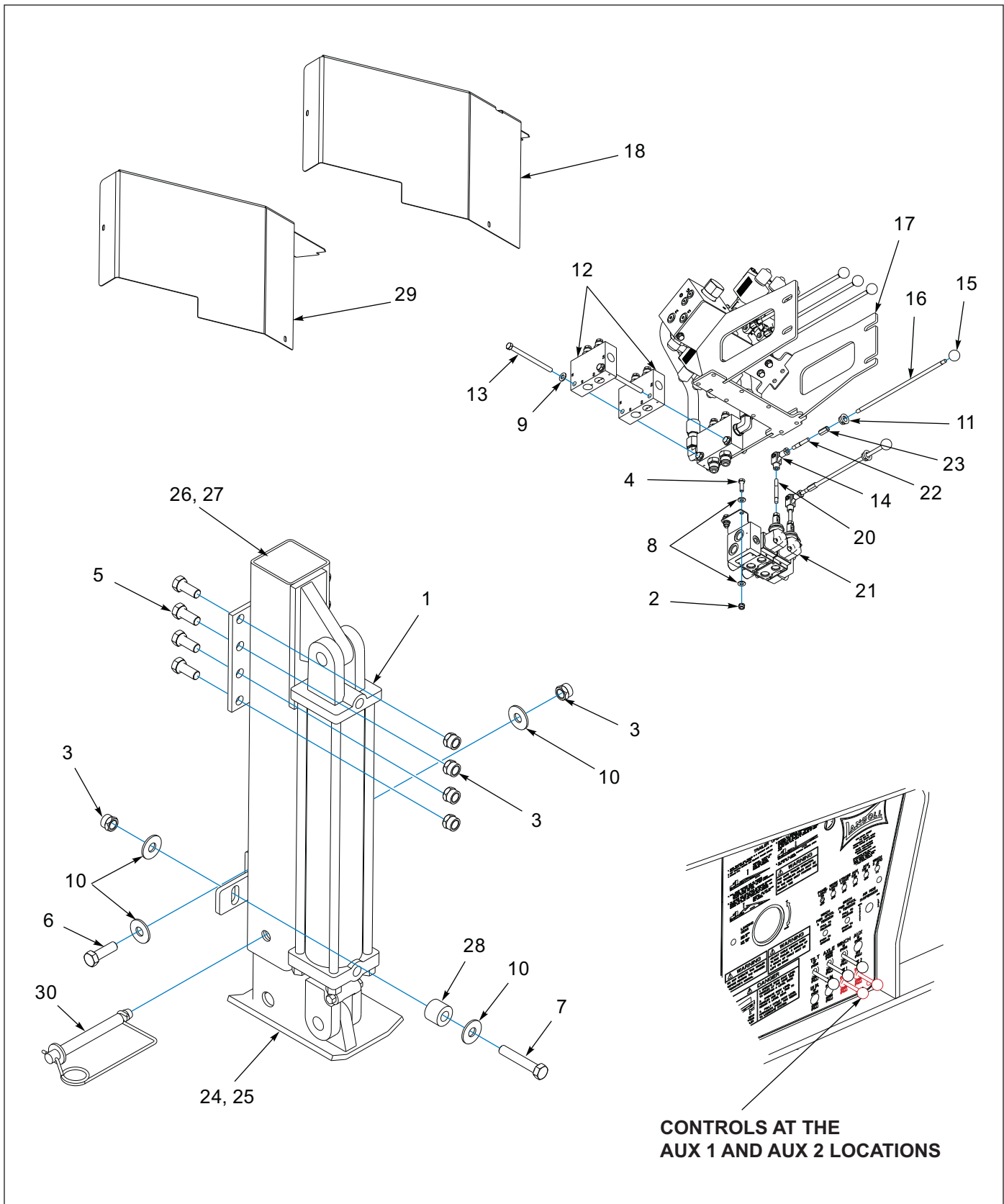


Figure 1-92: Hydraulic Park Stand - General Items

Hydraulic Park Stand - General Items

ITEM	PART NO.	DESCRIPTION	QTY.
	195371	PARK STAND, HYD 400A X 102'	
	195372	PARK STAND, HYD 400A X 102' ARCTIC	
	195374	PARK STAND, HYD 400A X 108'	
	195375	PARK STAND, HYD 400A X 108' ARCTIC	
	195376	PARK STAND, HYD 400A X 120'	
	195377	PARK STAND, HYD 400A X 120' ARCTIC	
1	1-242-010180-2	CYLINDER, HYDRAULIC 3-1/2 X 20 3000 PSI (SEE PAGE 1-156)	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	4
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	4
5	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5	16
6	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	2
7	1-654-010059-11	SCREW, HEX, 5/8-11 UNC X 3-1/2 GR5	2
8	1-861-010032-08	WASHER, FLAT 5/16W	8
9	1-861-010032-10	WASHER, FLAT 3/8W	2
10	1-861-010032-19	WASHER, FLAT 5/8W	8
11	178444	BUSHING NYLON INSERT 9/16ID	2
12	184585	VALVE,DUAL COUNTER BALANCE,30G	2
13	185216	SCREW,HXCAP3/8-16UNCX5-1/4GR5	2
14	186875	CLEVIS JOINT,ROD ENDS M8.1.25	2
15	186877	KNOB,1" ROUND,M8X1.25 THD	REF
16	186878	ROD HANDLE	REF
17	186886	VALVE ASSY, 3 SP, 35 GPM, SOLE	REF
18	186890	SHIELD HYD CONTROLS	1
19	186900	FRAME ASSY 400A G/N	REF
20	186902	STUD M8X1.25X65MM,DBL THD	2
21	189260	VALVE, 2 SPOOL, MOTOR, MANUAL	1
22	193910	STUD M8-1.25X50MM DBLE THD	2
23	193911	COUPLING NUT,M8-1.25X24MM ZINC	2
24	195378	PARK STAND WLDMT,HYD LH LEG400	1
25	195379	PARK STAND WLDMT,HYD RH LEG400	1
26	195380	PARK STAND WLDMT HYD LH 400A	1
27	195381	PARK STAND WLDMT HYD RH400A	1
28	195383	TUBE RD 1-1/2X3/4X1-3/16	2
29	195384	SHIELD HYD CONTROLS SHORT	1
30	346SL	LOCK HITCH PIN	2

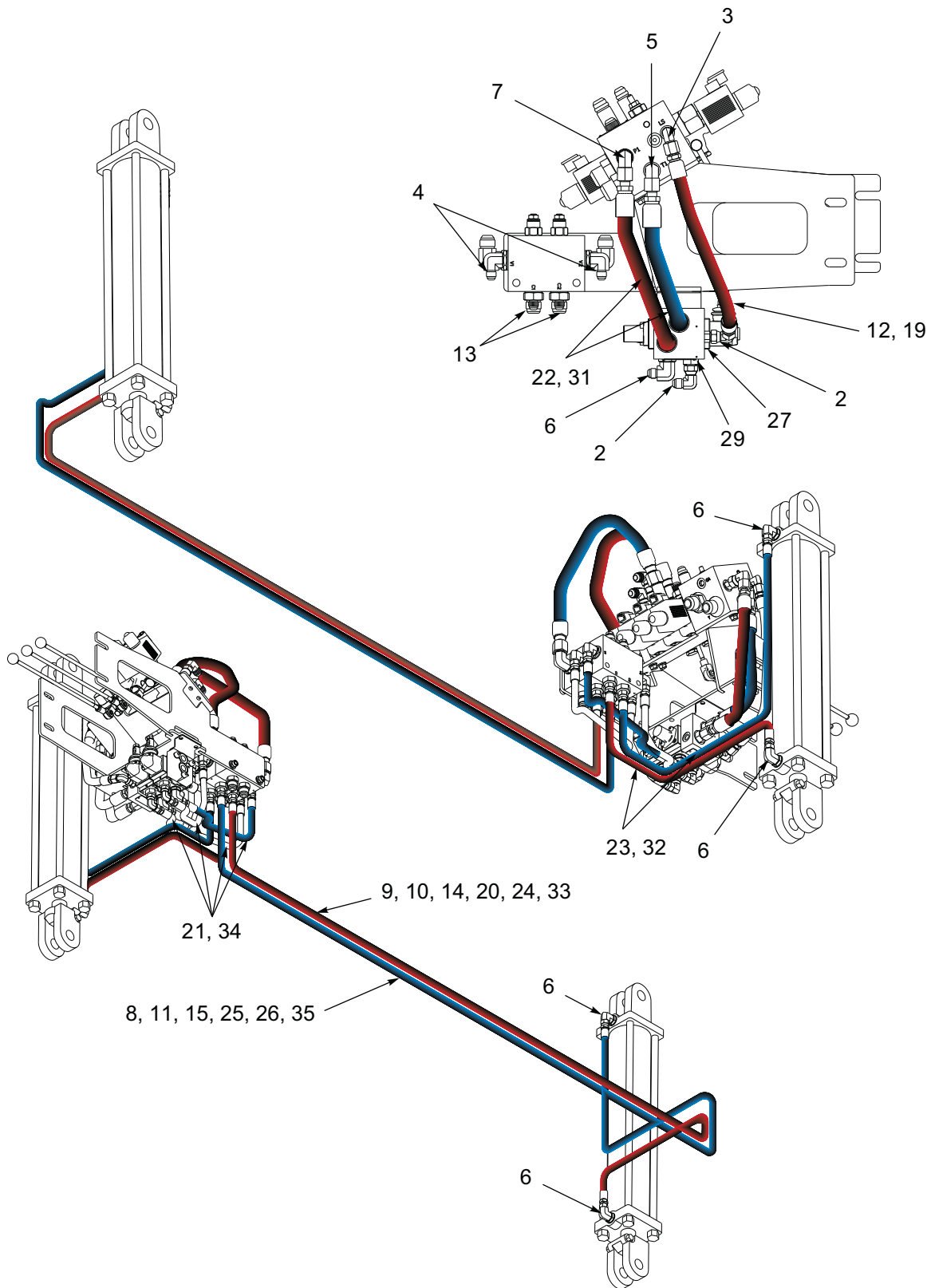


Figure 1-93: Hydraulic Park Stand - Hydraulic Items

Hydraulic Park Stand - Hydraulic Items

ITEM	PART NO.	DESCRIPTION	QTY.					
	195371	PARK STAND, HYD 400A X 102'	*					
	195372	PARK STAND, HYD 400A X 102' ARCTIC		*				
	195374	PARK STAND, HYD 400A X 108'			*			
	195375	PARK STAND, HYD 400A X 108' ARCTIC				*		
	195376	PARK STAND, HYD 400A X 120'					*	
	195377	PARK STAND, HYD 400A X 120' ARCTIC						*
1	1-242-010180-2	CYLINDER, HYD 3-1/2X20 3000PSI (SEE PAGE 1-156)	REF	REF	REF	REF	REF	REF
2	102-0031	ADAPTER, 90 JIC SWIVEL #6	3	3	3	3	3	3
3	102-1238	ADAPTOR, 90-#4 O-RING/#6 JIC	1	1	1	1	1	1
4	102-1333	FTG, 90EL 06SAEM X 10 O'RINGM	4	4	4	4	4	4
5	2062-6-8S	ADAPTER 90" 562 O-RING-.75JIC	1	1	1	1	1	1
6	2062-8-6S	ELBOW, 90, #8 SAE X #6 JIC	6	6	6	6	6	6
7	2071-8-8S	ADAPTER 90 #8 FLR SWIVEL #8JIC	1	1	1	1	1	1
8	7779-102	HOSE HYD 1/4 X 102	1	--	--	--	--	--
9	7779-78	HOSE HYD 1/4 X 78	1	--	--	--	--	--
10	7779-84	HOSE HYD 1/4 X 84	--	--	1	--	--	--
11	125648	HOSE ASSY 1/4X108, #6JIC FEMALE	--	--	1	--	--	--
12	130644	HOSE ASSY 3/8X16, 9/16JIC ST	1	--	1	--	1	--
13	146707	ADAPTER, #10 O-RING #6 TUBE	4	4	4	4	4	4
14	169628	HOSE 3/8X84 ARCTIC #6 JIC STR	--	--	--	1	--	--
15	172865	HOSE 3/8X120 ARCTIC #6JIC STR	--	--	--	--	--	1
16	187585	TUBE, CLAMP	REF	REF	REF	REF	REF	REF
17	186886	VALVE ASSY, 3 SP, 35 GPM, SOLE	REF	REF	REF	REF	REF	REF
18	189260	VALVE, 2 SPOOL, MOTOR, MANUAL	REF	REF	REF	REF	REF	REF
19	189341	HOSE 3/8X16 ARCTIC #6JIC STR	--	1	--	1	--	1
20	193435	HOSE ARCTIC 3/8X100SAE37 STR	--	--	--	--	--	1
21	193907	HOSE ARCTIC, 3/8X30, #6JIC STR	--	4	--	4	--	4
22	193908	HOSE ARCTIC 1/2X18#8JIC STR	--	2	--	2	--	2
23	195385	HOSE ARCTIC 3/8X46 #6JIC STR	--	2	--	2	--	2
24	195386	HOSE ARCTIC 3/8X78 #6JIC STR	--	1	--	--	--	--
25	195387	HOSE ARCTIC 3/8X102 #6JIC STR	--	1	--	--	--	--
26	195388	HOSE ARCTIC 3/8X108 #6JIC STR	--	--	--	1	--	--
27	202702-4-6S	ADAPTER, #4 O-RING TO #6 JIC	1	1	1	1	1	1
28	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	1	1	1	1	1	1
29	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	2	2	2	2	2	2
30	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2	2	2	2	2	2
31	1422896	HOSE ASSY OUTLET LOOP	2	--	2	--	2	--
32	71500165	HOSE, .25 X 46 IN.	2	--	2	--	2	--
33	71509004	HOSE .25 X 98	--	--	--	--	1	--
34	71509125	HOSE .25 X 30	4	--	4	--	4	--
35	71600529	HOSE ASSY .25X120"	--	--	--	--	1	--

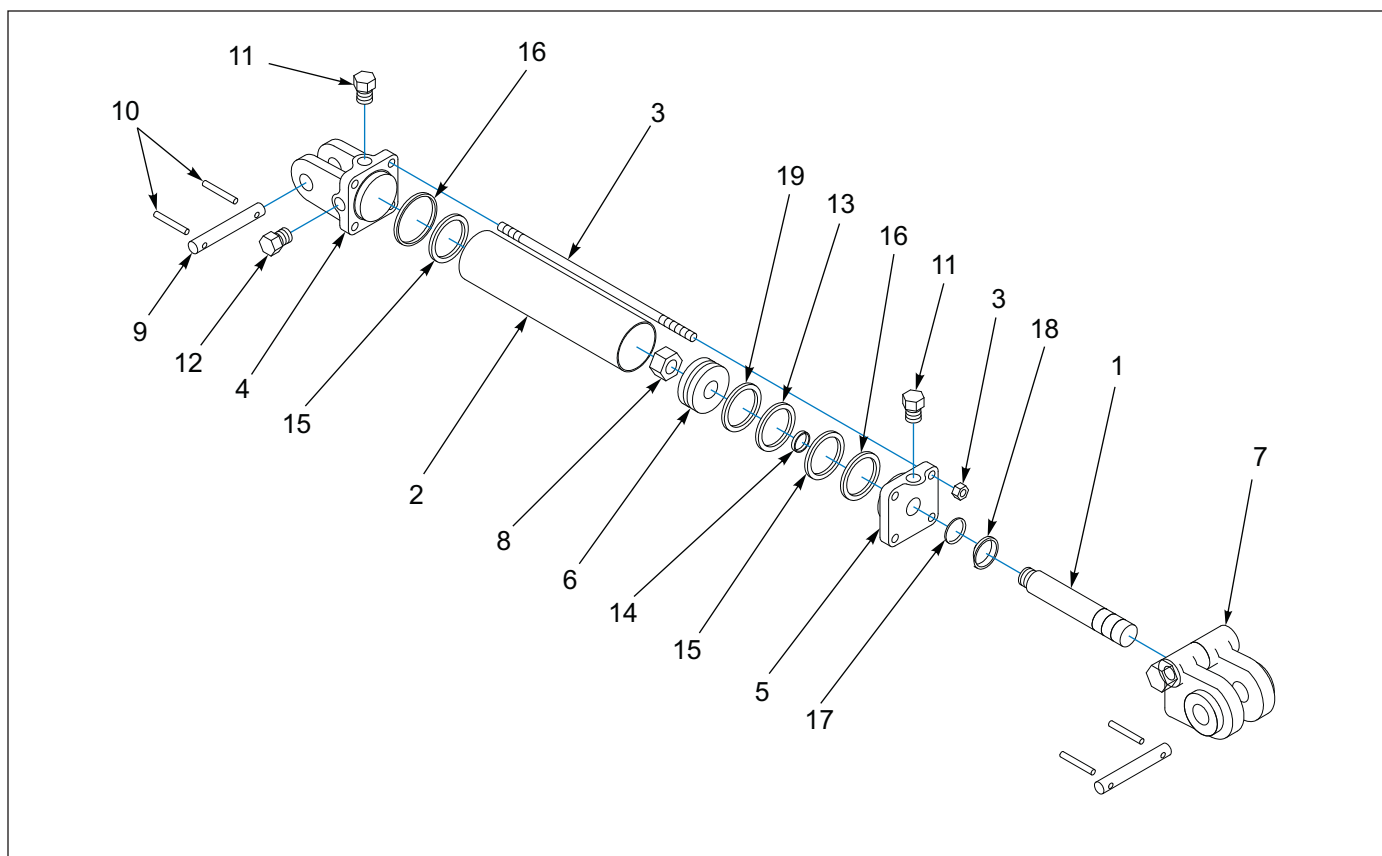


Figure 1-94: Hydraulic Cylinder - 3-1/2 X 20

Hydraulic Cylinder - 3-1/2 X 20

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	1-242-010180-2		CYLINDER, HYDRAULIC 3-1/2X20	
1	010700437	010700437	PISTON ROD	1
2	-----	051700015	TUBE	1
3	-----	170201241	TIEROD ASSEMBLY	4
4	-----	141700023	BUTT	1
5	111870	081700255	GLAND ASSEMBLY	1
6	-----	071700174	PISTON	1
7	-----	100000330	CLEVIS ASSEMBLY	1
8	-----	220000210	LOCKNUT	1
9	-----	190400004	CLEVIS PIN	2
10	-----	220001504	COTTER PIN	4
11	-----	200013106	PLASTIC PLUG	2
12	-----	200300040	PORT PLUG	1
13	-----	240060338	CROWN SEAL	1
14	-----	240000022	O-RING	1
15	-----	240000236	O-RING	2
16	-----	240061236	BU-WASHER	2
17	-----	240020185	U-CUP	1
18	-----	240014137	WIPER	1
19	-----	-----	BEARING RING	1
20	1-242-010178-2		PACKING KIT (ITEMS 13-19)	REF

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Light Installations - Options

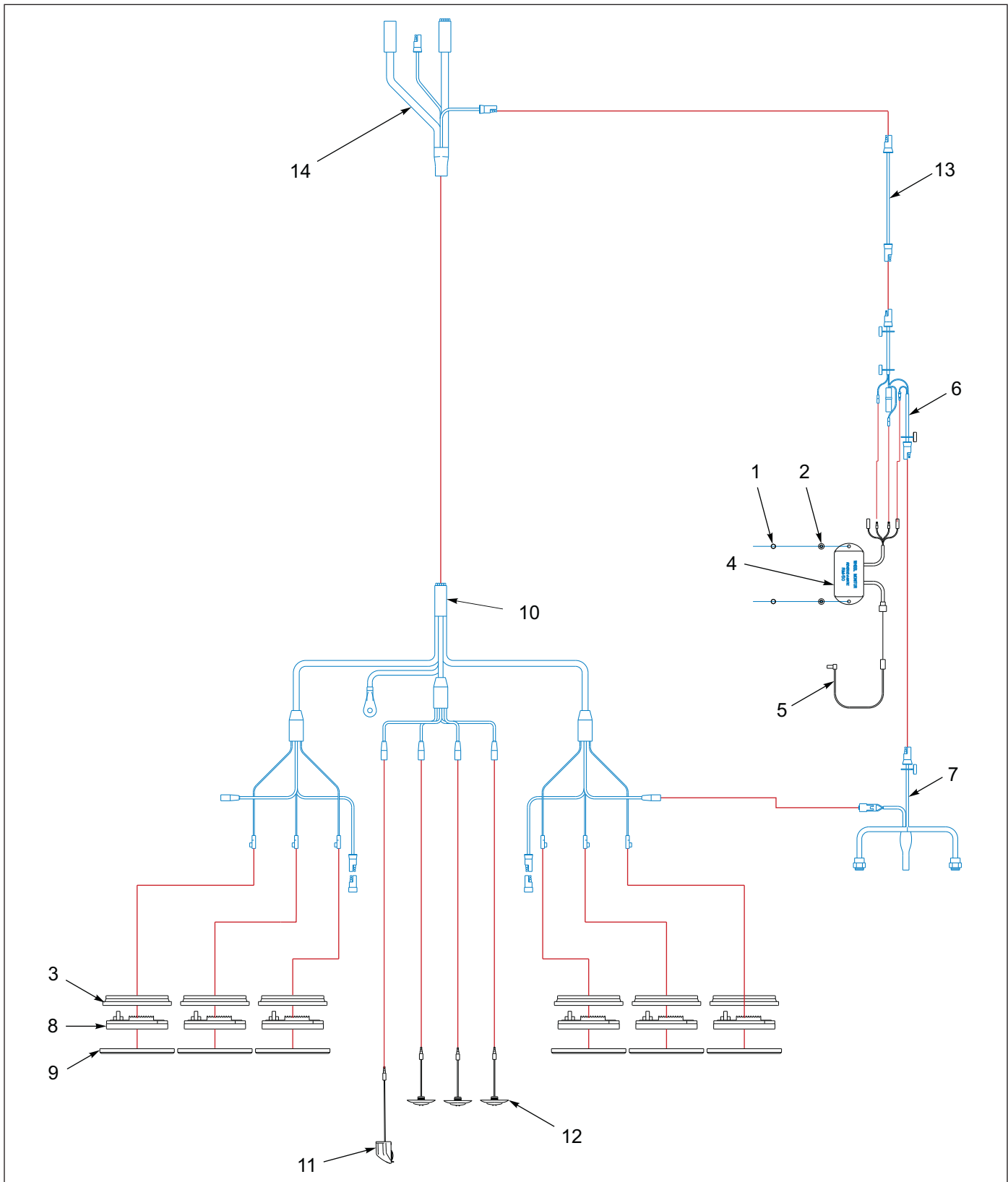
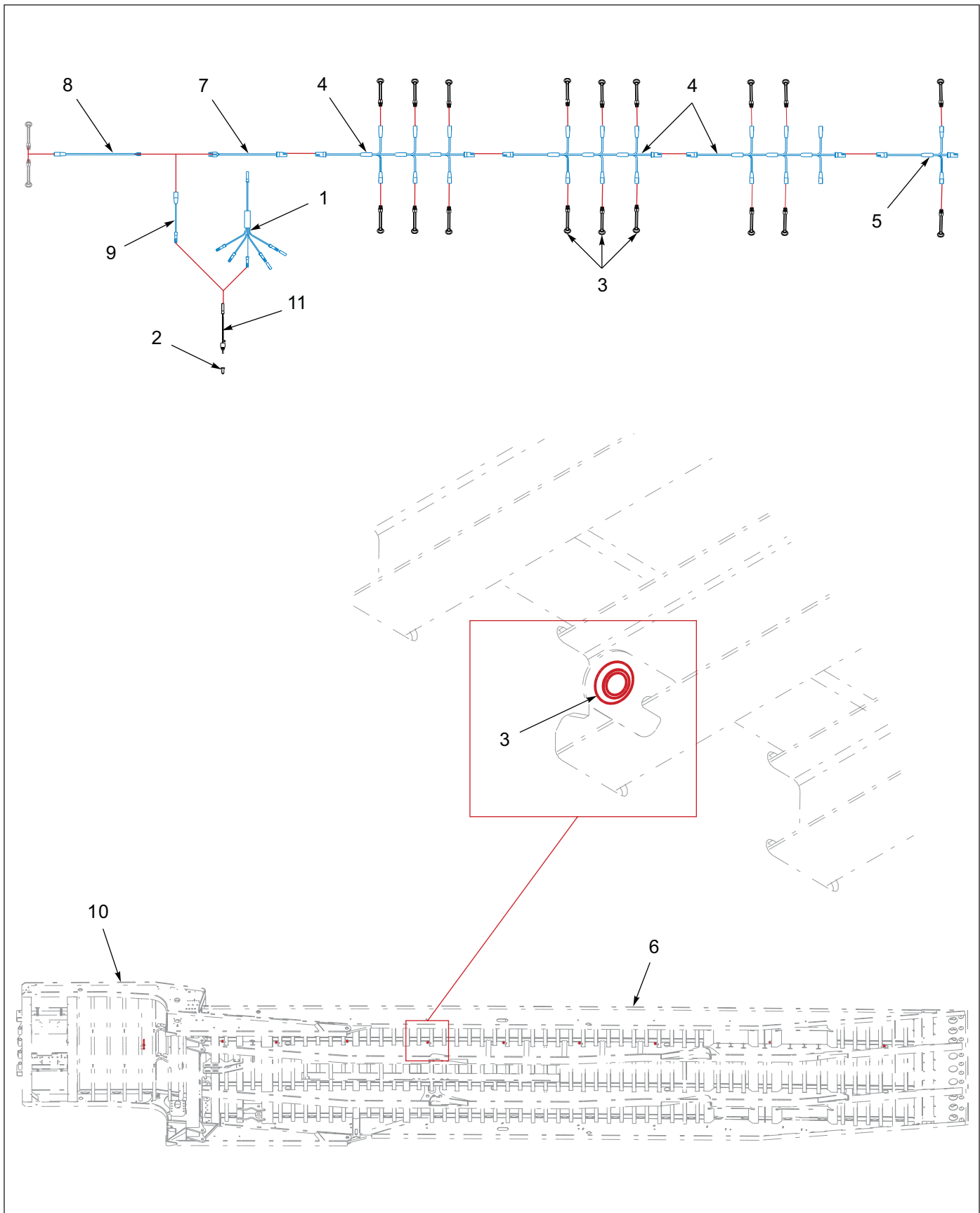


Figure 1-95: Backup Alarm/Light Installation

Backup Alarm/Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	150329	BACKUP ALARM/LIGHT INSTALLATION	
1	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
2	108417	NUT, HEX FLANGE SPIRALOCK 1/4-20	6
3	143114	GROMMET, OVAL GROTE	8
4	150072	REVERSE DETN MODULE AND SENSOR	1
5	137559	SENSOR DIRECTIONAL CABLE, BACK-UP	1
6	150074	HARNESS, MODULE/ALARM	1
7	166872	HARNESS, BACKUP LIGHT/ALARM	1
8	179902	LIGHT S/T/T RED, CLEAR LENDS GROTE	6
9	180570	COVER, CHROME OBLONG GROMMET	6
10	187859	HARNESS, BUMPER MICRONOVA GROTE	1
11	187860	LIGHT ASSY, LICENSE LED GROTE	1
12	187864	LIGHT, RED LED, .75CL/MK CLEAR CB	5
13	3-368-010252	HARNESS ASSY, BKHD LIGHT EXT	1
14	143103	HARNESS, E-CHAIN GROTE	1

**Figure 1-96: Under Deck - Lighting Installation**

Under Deck - Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.		
	214403	INSTL WRK ZONE LIGHTS 41 FT., 440-455	*		
	214404	INSTL WRK ZONE LIGHTS 48-50 FT., 440-455	*		
	214405	INSTL WRK ZONE LIGHTS 53 FT., 440-455	*		
1	150093	HARNESS, 5 AUX BRANCHS GROTE	REF	REF	REF
2	150117	TOGGLE SWITCH SEALED SPST	1	1	1
3	183413	LIGHT WHY LED .75 CL/MK GROTE	16	20	22
4	187856	HARNESS, MARKER MID DECK	2	3	3
5	187857	HARNESS, MARKER ADDITION	1	1	1
6	188995	FRAME, WLDMT, 440A-50CA-102	REF	REF	REF
7	202191	HARNESS, JUMPER 48 IN.	1	1	1
8	204194	HARNESS, MARKER EXT 60 IN.	1	1	1
9	213288	HARNESS, MARKER LAMP 12 IN.	1	1	1
10	213978	G/N WDLMT 400B TOP TLBX	REF	REF	REF
11	81264	RUBBER BOOT FOR ELECT SWITCH	1	1	1

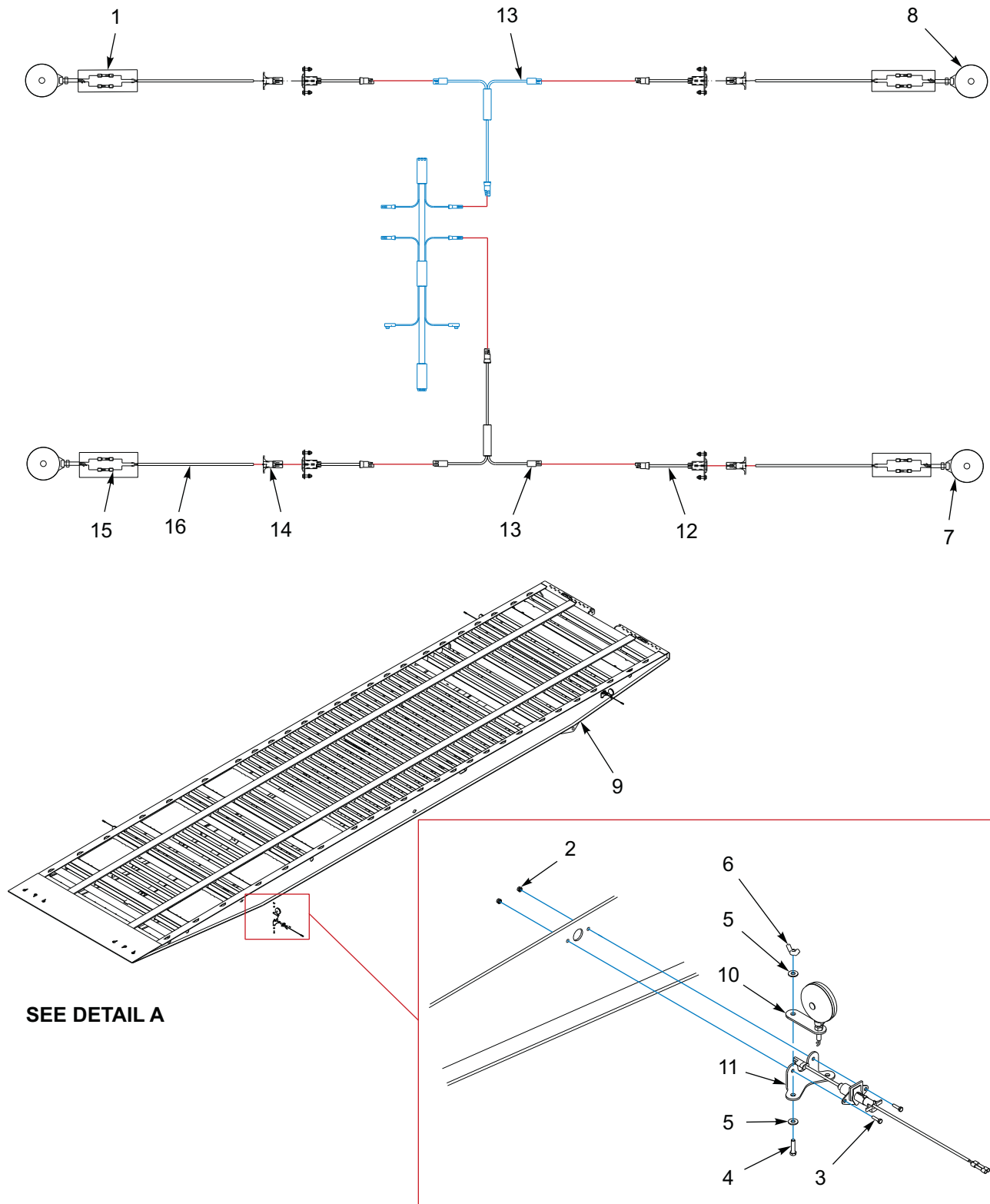


Figure 1-97: Four Corner Light Installation

Four Corner Light Installation

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

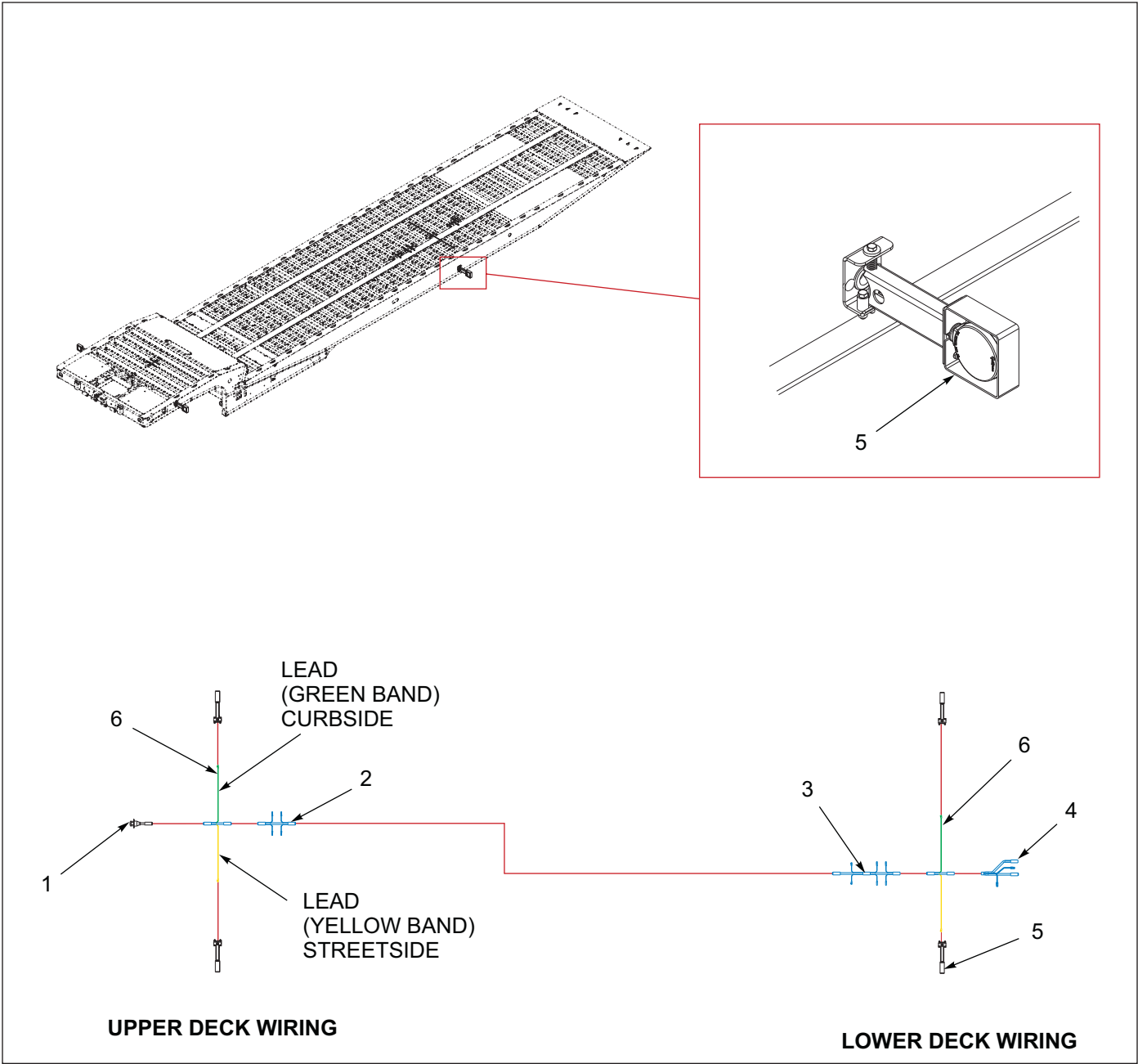


Figure 1-98: Swingout Light Installation

Swingout Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	179089	SWINGOUT LIGHT INSTALLATION	
1	143100	HARNESS, 7 WAY RECEPTACLE	REF
2	143101	HARNESS, FRONT MAIN	REF
3	143102	HARNESS, BED MAIN	REF
4	143103	HARNESS, E-CHAIN	REF
5	176420	SWING ARM LIGHT ASSY (SEE PAGE 1-165)	2
6	176432	HARNESS JUMPER EMERGENCY FLASH	1

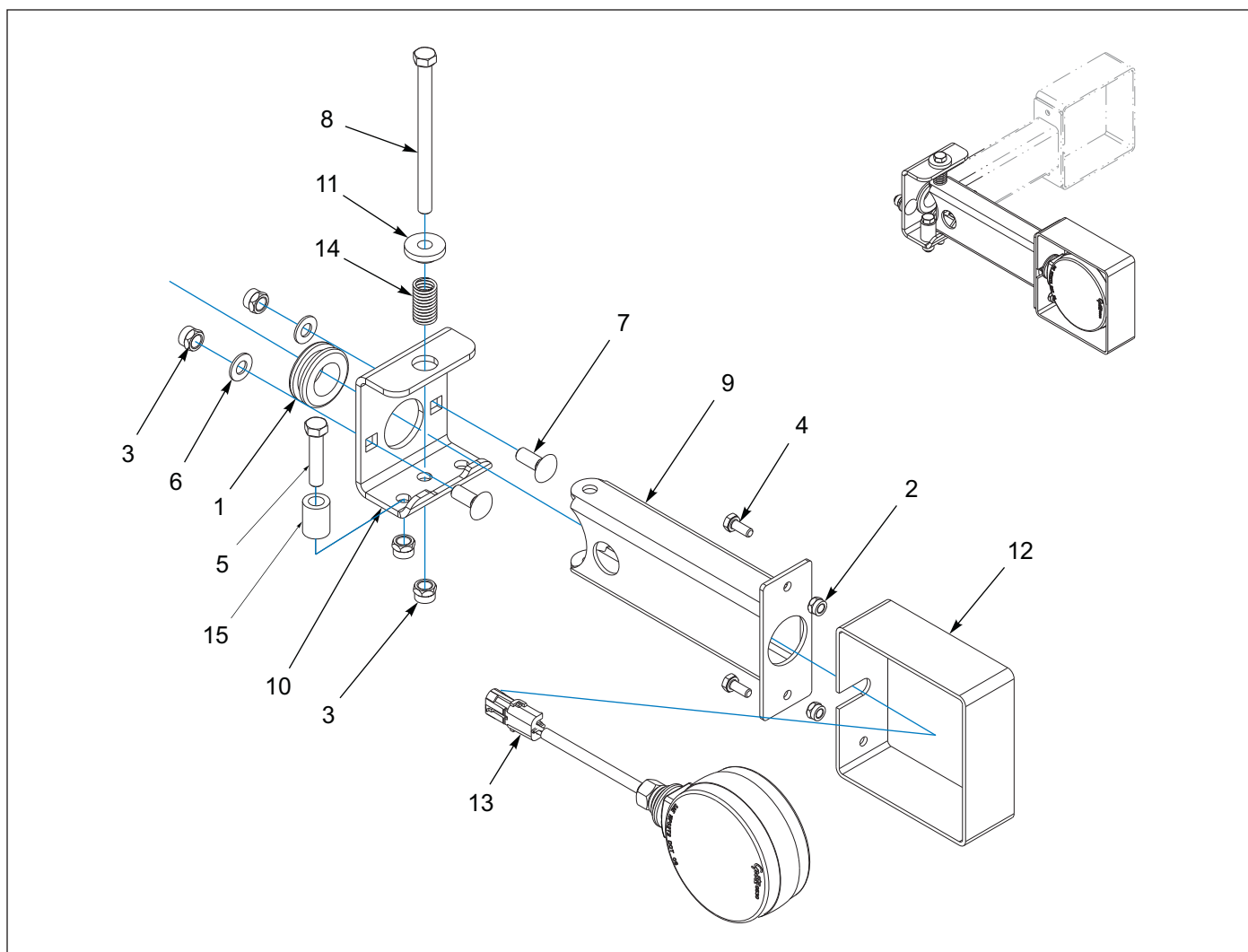


Figure 1-99: Swing-Arm Light Assembly - Turn Signal/Emergency Flasher

Swing-Arm Light Installation - Turn Signal/Emergency Flasher

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

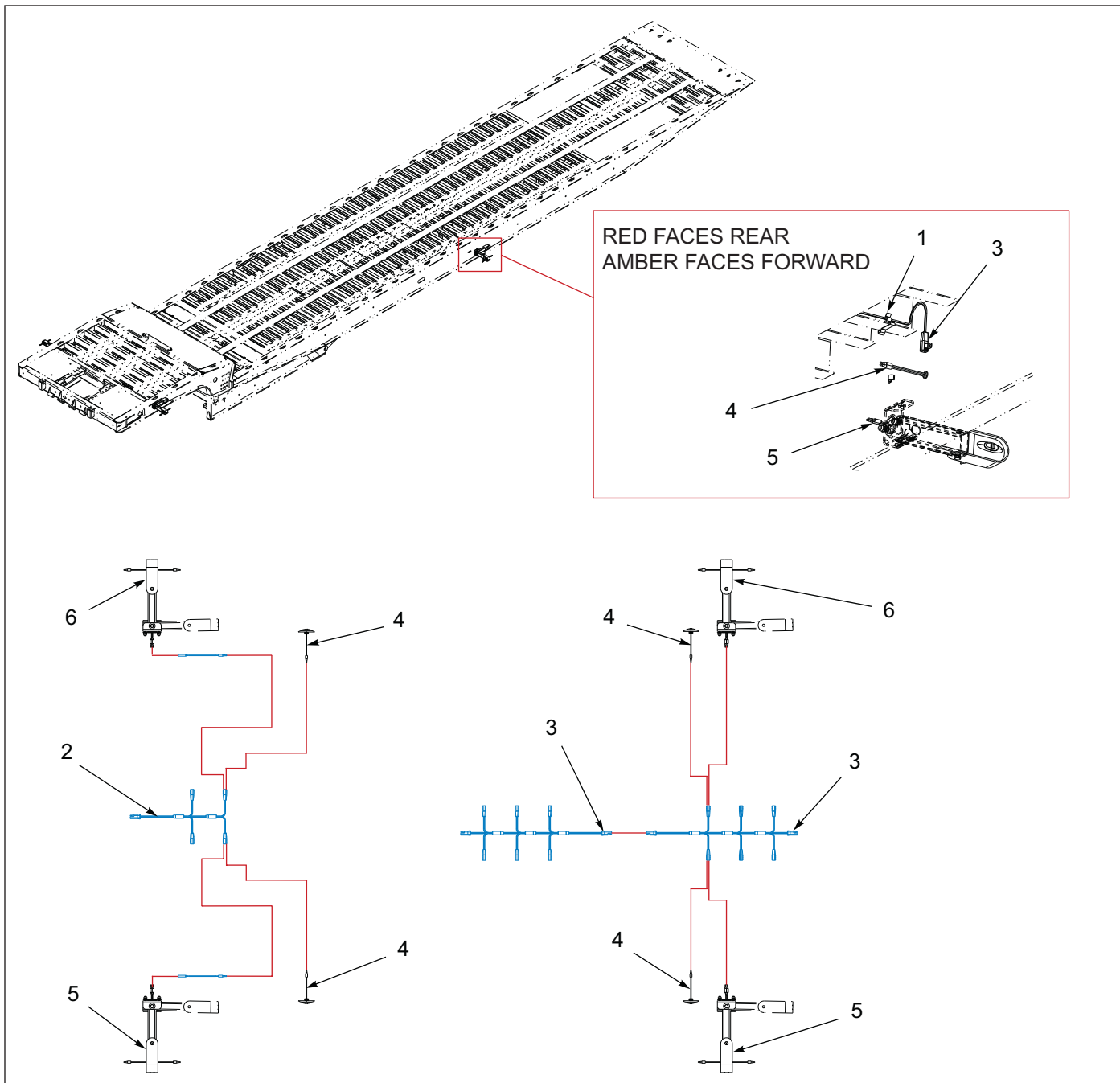


Figure 1-100: Swingout Marker Light Installation - Red/Amber

Swingout Marker Light Installation - Red/Amber

ITEM	PART NO.	DESCRIPTION	QTY.
	191557	LIGHT, SWING OUT MARKER, LWR DK ONLY	
1	187833	CLIP HARNESS, CROSS-MEMBER	REF
2	187855	HARNESS MARKER UPR DECK	REF
3	187856	HARNESS MARKER MID DECK	REF
4	187863	LIGHT YEL LED.75CL/MK CLEAR CB	REF
5	191555	LIGHT ASSY,SWING-ARM MKR,STREET (SEE PAGE 1-167)	1
6	191556	LIGHT ASSY,SWING-ARM MKR,CURB (SEE PAGE 1-168)	1

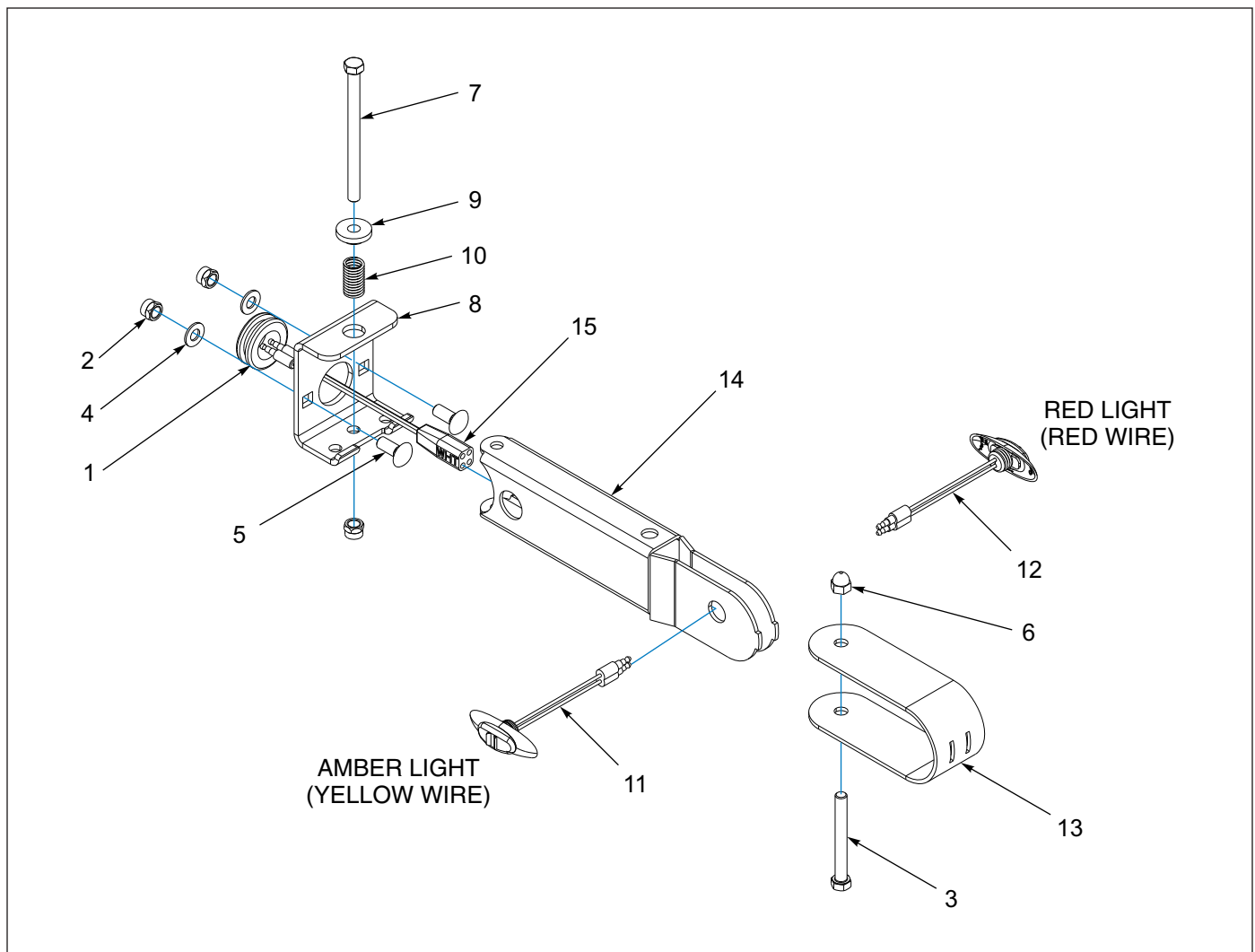


Figure 1-101: Swing-Arm Light Assembly - STREET

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	187863	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	187864	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

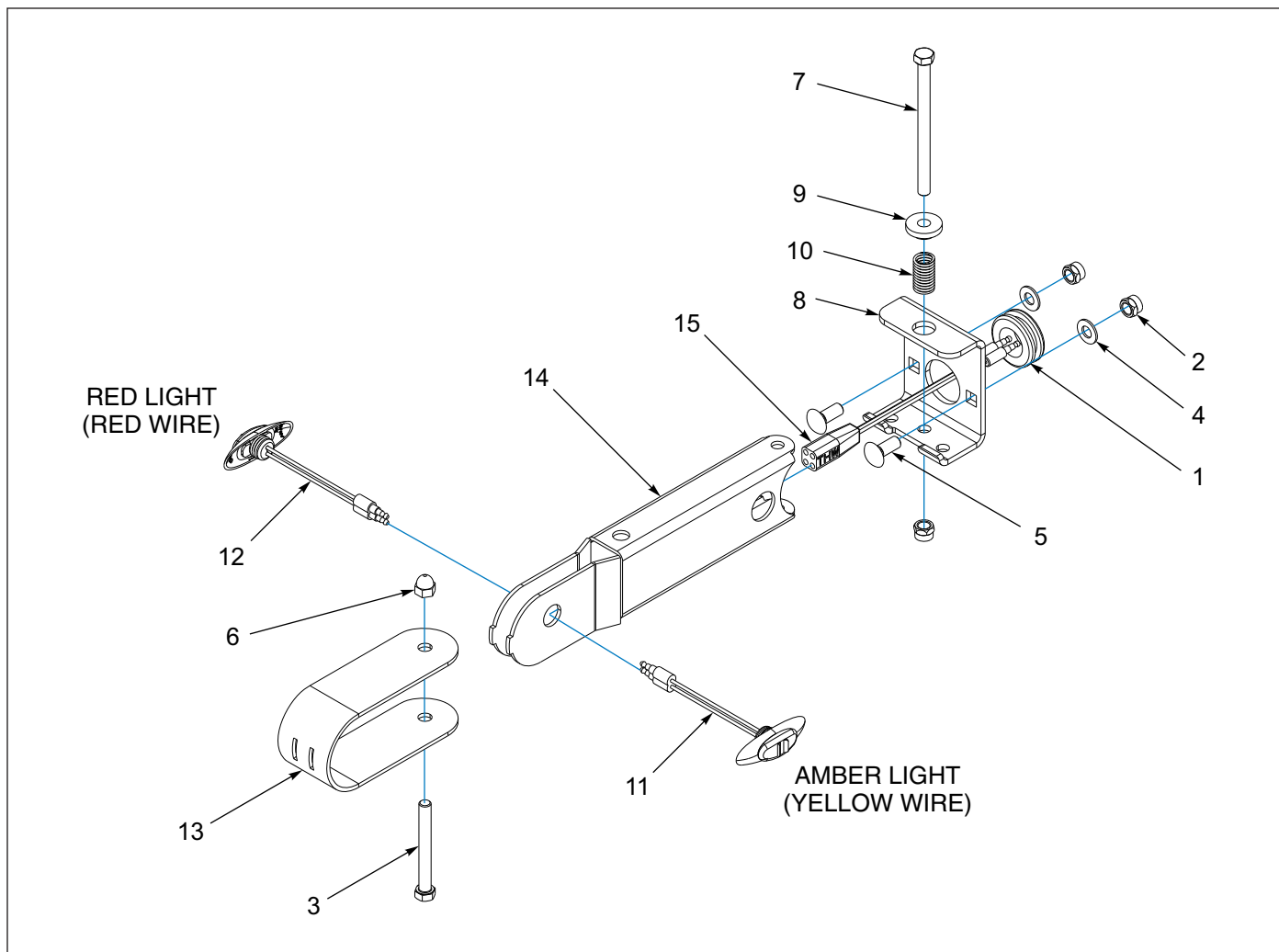


Figure 1-102: Swing-Arm Light Assembly - CURB

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	187863	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	187864	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

Roller Guides - Options

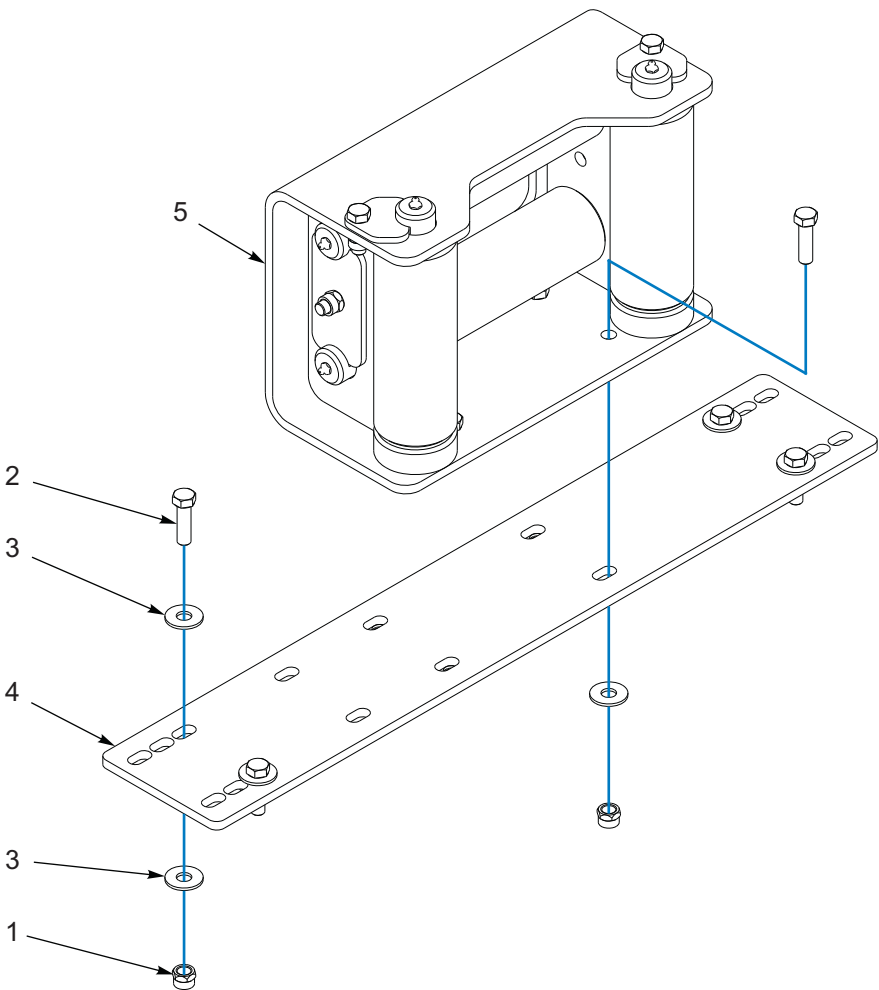


Figure 1-103: 4 Roller Guide Installation 12K (BRADEN)

4 Roller Guide Installation - 12K (BRADEN)

ITEM	PART NO.	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 (SEE PAGE 1-185)	1

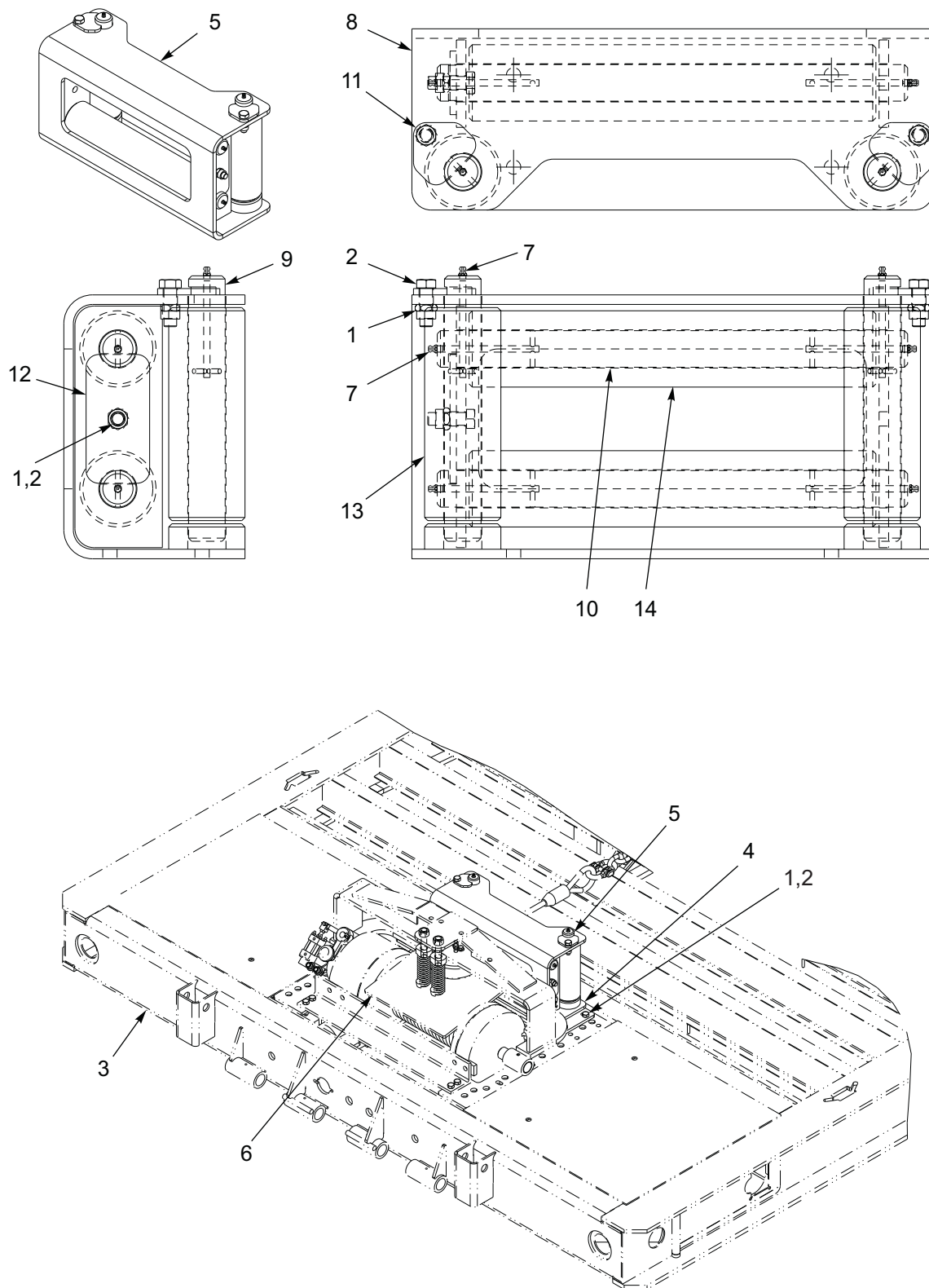


Figure 1-104: 4 Roller Guide Installation - 20K (BRADEN)

4 Roller Guide Installation - 20K (BRADEN)

ITEM	PART NO.	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	REF
4	145588	PLATE, ROLLER GUIDE MOUNT	1
5	3-352-010067-2	GUIDE ASSEMBLY, WINCH (INCL ITEMS 1-2, 7-14)	1
6	3-873-010140-01	WINCH INSTALLATION, 20K UPPER DECK	REF
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

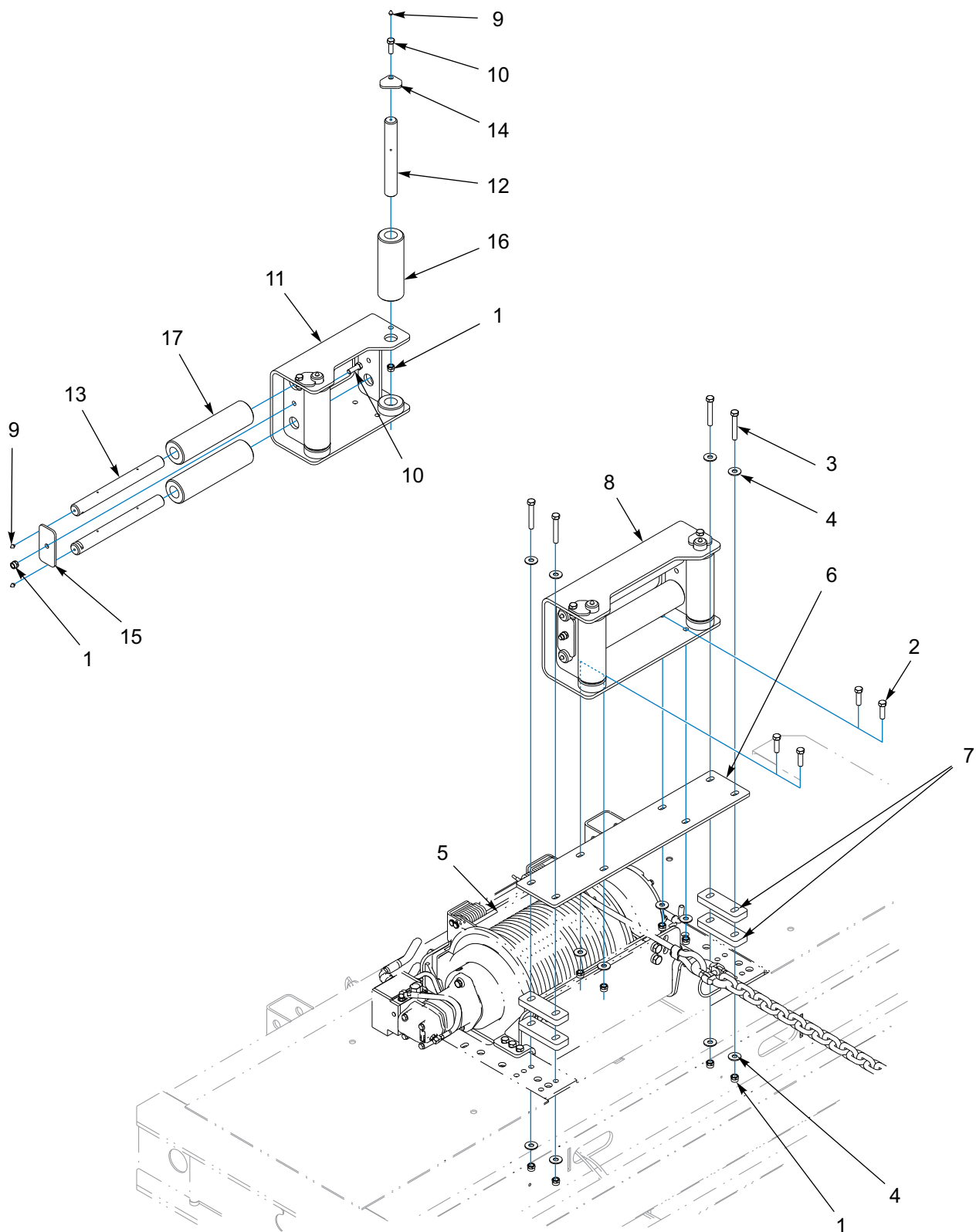


Figure 1-105: 4 Roller Guide Installation - 20K/30K (WARN)

4 Roller Guide Installation - 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	REF
	155411	WINCH INSTALLATION, 30K WARN	REF
6	162259	PLATE, ROLLER GUIDE	1
7	162260	PLATE, ROLLER SPACER	4
8	3-352-010067-2	GUIDE ASSEMBLY, WINCH (INCL 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

Pop-Up Roller Installation

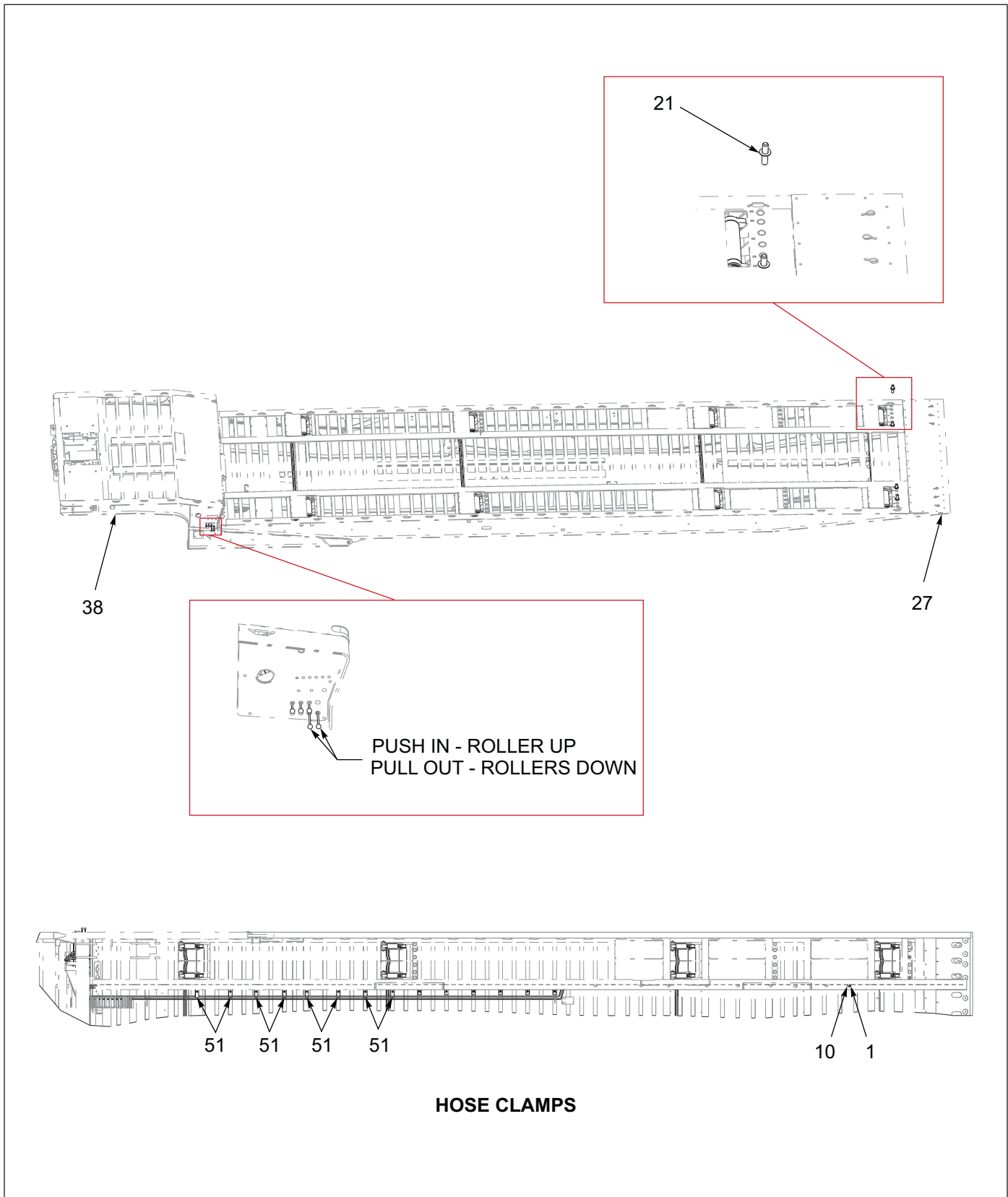


Figure 1-106: 8 Pop-Up Roller Installation (1 of 2)

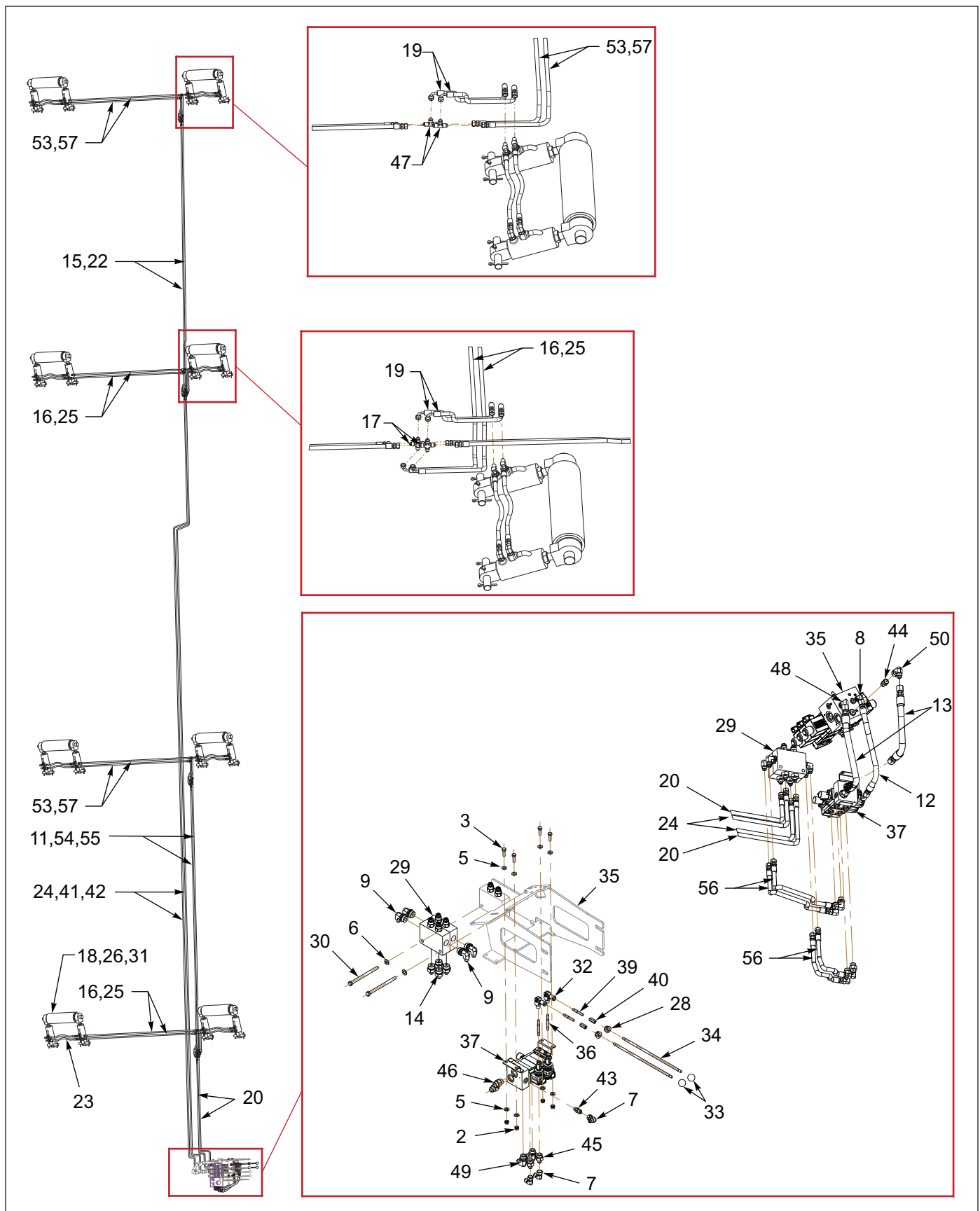


Figure 1-107: 8 Pop-Up Roller Installation (2 of 2)

8 Pop-Up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	194467	ROLLER INSTL. (8) 400A-48-102 SB	
	194483	ROLLER INSTL. (8) 400A-48-108 SB BB	
	194499	ROLLER INSTL. (8) 400A-48-120 SB	
	190508	ROLLER INSTL. (8) 400A-50CA-102 SB BB	
	194508	ROLLER INSTL. (8) 400A-50CA-108 SB BB	
	194524	ROLLER INSTL. (8) 400A-50CA-120 SB	
	194540	ROLLER INSTL. (8) 400A-50-102 SB	
	194556	ROLLER INSTL. (8) 400A-50-108 SB BB	
	194572	ROLLER INSTL. (8) 400A-50-120 SB	
	190524	ROLLER INSTL. (8) 400A-53-102	
	189384	ROLLER INSTL. (8) 400A-53-102 SB 1" TRAVEL	
	190536	ROLLER INSTL. (8) 400A-53-108 SB BB	
	190548	ROLLER INSTL. (8) 400A-53-120 SB	
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	23
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	4
3	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	4
4	1-796-010003-02	TIE, STRAP, PLASTIC.18X14 (NOT SHOWN)	14
5	1-861-010032-08	WASHER,FLAT 5/16 ZP	8
6	1-861-010032-10	WASHER, FLAT 3/8" N ZP	2 REF
7	102-0031	ADAPTER,90 JIC SWVL #6	3
8	102-1238	ADAPTER,90-#4 O-RING/#6 JIC	1
9	102-1333	FTG,90EL 06SAEM X 10	4
10	103817	CLAMP,HOSE 660 U/C	15
11	125648	HOSE ASSY 1/4X108,#6JICFEMALE (USED ONLY W/ 194540, 194556, & 194572)	2
12	130644	HOSE ASSY 3/8X16,9/16JIC ST	1
13	1422896	HOSE ASSY, 1/2 SAE 37, STR-STR	2
14	146707	ADAPTER,#10 O-RING #6 TUBE	4
15	149007	HOSE ASSY 1/4X#6JIC (2X) X156 (USED ONLY W/ 190508, 194508, & 194524)	2
16	149011	HOSE ASSY 1/4X72 #6JIC STR-90 (USED ONLY W/ 194499, 194524, 194572, & 190548)	4
17	149012	ADAPTER CROSS #6 JIC	4
18	169845	ROLLER SUB-ASSY POP-UP (USED ONLY W/ 194483, 194508, 194556, & 190536)	8
19	169848	HOSE ASSY 1/4X18 #6JIC STR-90	8
20	169849	HOSE ASSY 1/4X144 #6JIC STR	2
21	169865	PIN ALIGNMENT PEG	4
22	172980	HOSE ASSY, 1/4X125 #6 JIC STR	2
23	174265	HOSE HYD 1/4 X 21 - 6 STR	16
24	174266	HOSE HYD 1/4 X 446 -6 STR (USED ONLY W/ 190524, 189384, 190536, & 190548)	2
25	175029	HOSE ASSY, 1/4X52,#6JIC STR-90 (USED ONLY W/ 194467, 194483, 190508, 194508, 194540, 194556, 190524, 189384, & 190536)	4
26	175617	ROLLER SUB-ASSY POP-UP (USED ONLY W/ 194467, 194499, 190508, 194524, 194540, 194572, 190524, & 190548)	8
27	178400	FRAME MOD, 8 RLR 455-53-120 SB	REF
28	178444	BUSHING NYLON INSERT 9/16ID	2
29	184585	VALVE,DUAL COUNTER BALANCE,30G	2

8 Pop-Up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
30	185216	SCREW,HXCAP3/8-16UNCX5-1/4GR5	2
31	186861	ROLLER ASSY, POP-UP, 1" STOP (USED ONLY W/ 189384)	8
32	186875	CLEVIS JOINT,ROD ENDS M8.1.25	2
33	186877	KNOB,1" ROUND,M8X1.25 THD	2 REF
34	186878	ROD HANDLE M8X1.25 ENDS	2 REF
35	186886	VALVE ASSY, 3 SP, 35 GPM, SOLE (SEE PAGE 1-26)	REF
36	186902	STUD M8X1.25X65MM,DBL THD	2
37	189260	VALVE, 2 SPOOL, MOTOR, MANUAL (INCLUDES 186877 & 186878) (SEE PAGE 1-118)	1
38	192160	FRAME ASSY, 400A-120 G/N	REF
39	193910	STUD M8-1.25X50MM DBLE THD	2
40	193911	COUPLING NUT,M8-1.25X24MM ZINC	2
41	194724	HOSE ASSY 1/4X386 #6 JIC 2X (USED ONLY W/ 194467, 194483, 194499, 190508, 194508, & 194524)	2
42	194725	HOSE ASSY 1/4X399 #6 JIC 2X (USED ONLY W/ 194540, 194556, & 194572)	2
43	202702-4-6S	ADAPTER, #4 O-RING TO #6 JIC	1
44	202702-6-8S	ADAPTER, #6 SAE X #8 JIC	1
45	202702-8-6S	ADAPTER #8 O-RING TO #6 TUBE	2
46	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
47	2033-6-6S	ADAPTER, TEE, #6 TUBE	4
48	2062-6-8S	ADAPTER 90" 562 O-RING-.75JIC	1
49	2062-8-6S	ELBOW,90,#8 SAE X #6 JIC	2
50	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	1
51	3-181-010006	HOSE CLAMP 350	8
52	1-822-010001	TRIM 1350 3/8 BLK FINE PEBBLE	3
53	71500166	HOSE,.25 X 52 IN. (USED ONLY W/ 194467, 194483, 190508, 194508, 194540, 194556, 190524, 189384, & 190536)	4
54	71508981	HOSE ASSY 1/4 #6 JIC (2X) 130 (USED ONLY W/ 190508, 194508, 194524, 190524, 189384, 190536, & 190548)	2
55	71509124	HOSE ASSY 1/4 #6 JIC (2X) 116 (USED ONLY W/ 194467, 194483, & 194499)	2
56	71509125	HOSE ASSY, 1/4, #6 JIC 30"	4
57	7779-72	HOSE HYD 1/4 X 72 (USED ONLY W/ 194499, 194524, 194572, & 190548)	4

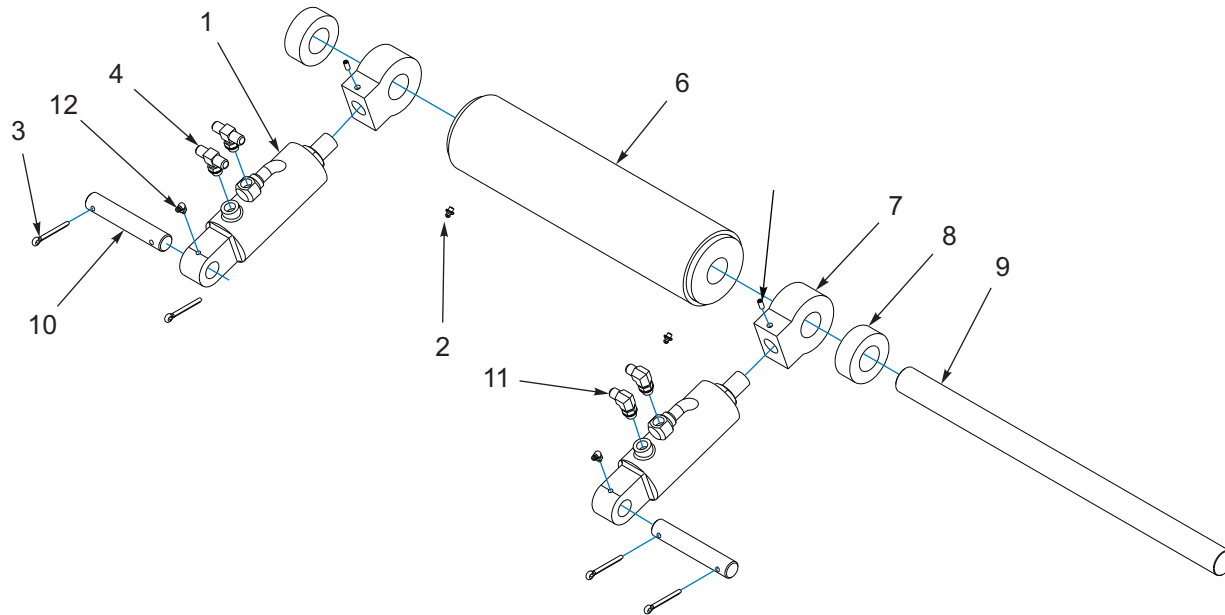


Figure 1-108: Pop-Up Roller Installation

Pop-Up Roller Installation

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

Spare Tire Accessories

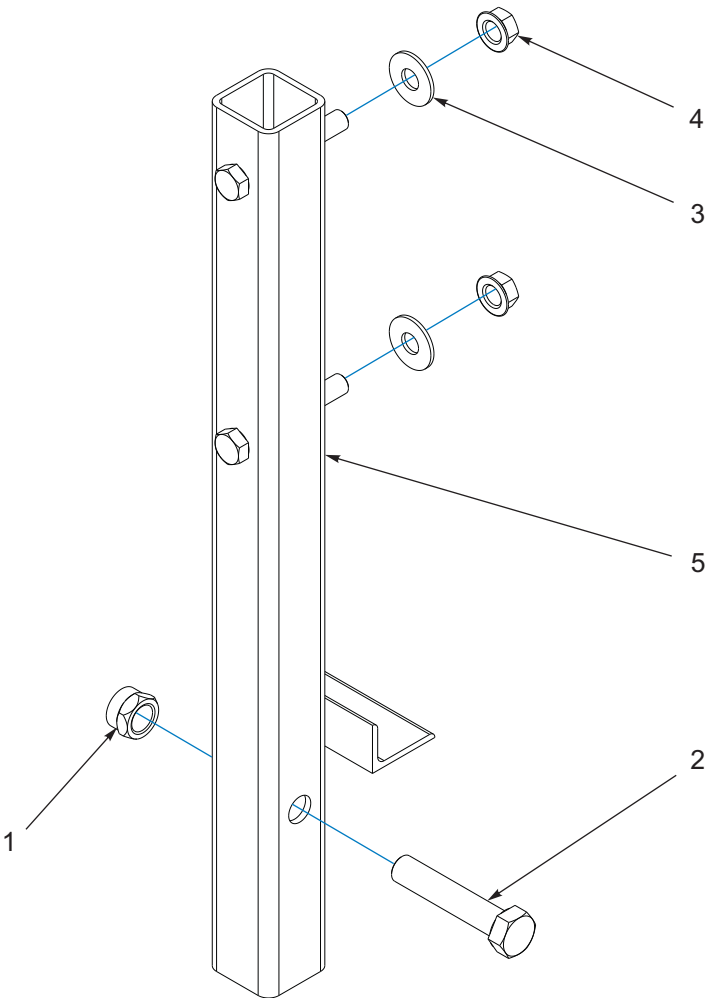


Figure 1-109: Spare Tire - Mount Assembly

Spare Tire - Mount Assembly

ITEM	PART NO.	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

Upper Deck - Options

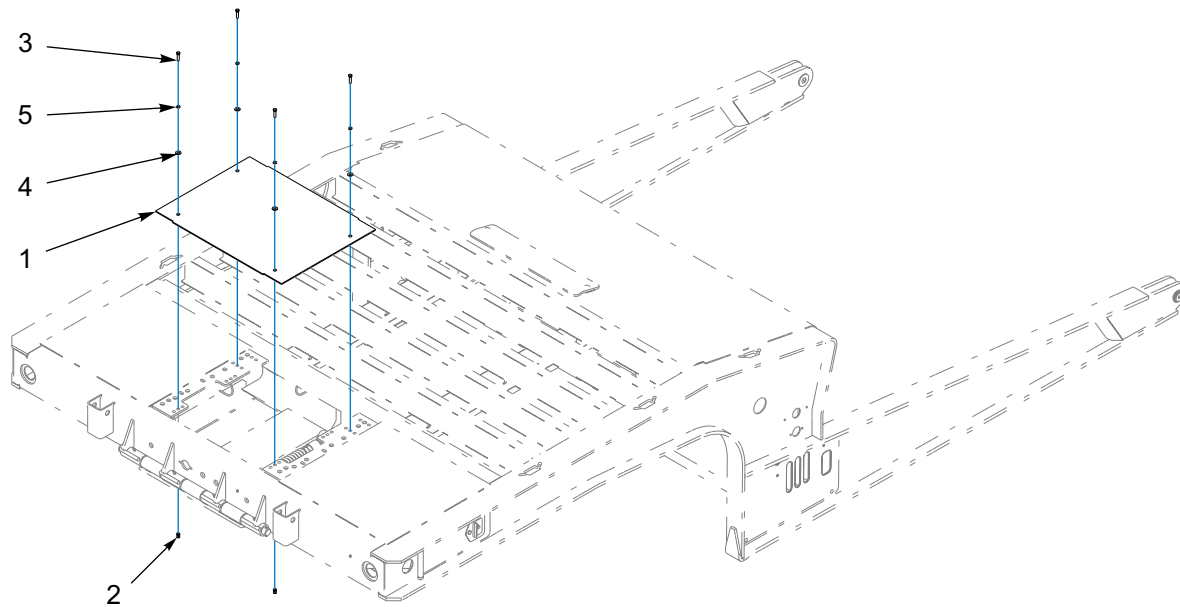


Figure 1-110: Upper Deck - Cover Assembly

Upper Deck - Cover Assembly

ITEM	PART NO.	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

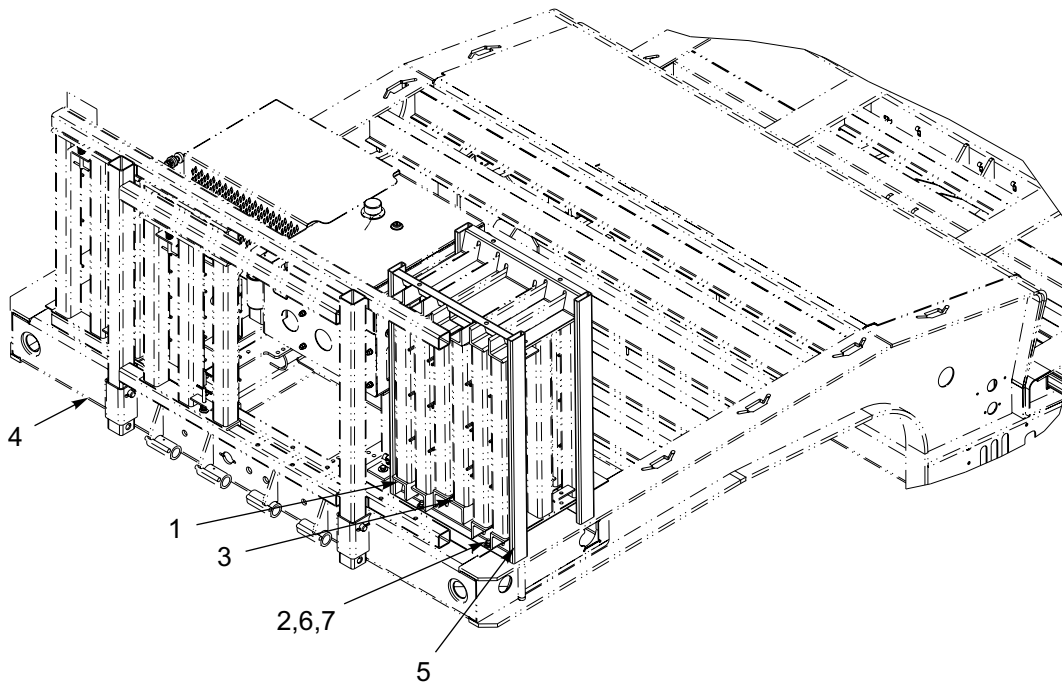


Figure 1-111: Upper Deck - Extension Bridge Storage Rack

Upper Deck - Extension Bridge Storage Rack

ITEM	PART NO.	DESCRIPTION	QTY.
	136828	UPPER DECK EXTENSION BRIDGE STORAGE RACK	
1	120492	EXTENSION WELDMENT, REAR WHEEL WELL	REF
2	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	4
3	126609	EXTENSION WELDMENT, FRONT WHEEL WELL	REF
4	136396	P/O EXTENSION INSTALLATION	REF
5	136829	RACK WELDMENT U/D STOR EXT BRIDGE	1
6	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
7	1-861-010032-15	WASHER, FLAT 1/2W	4

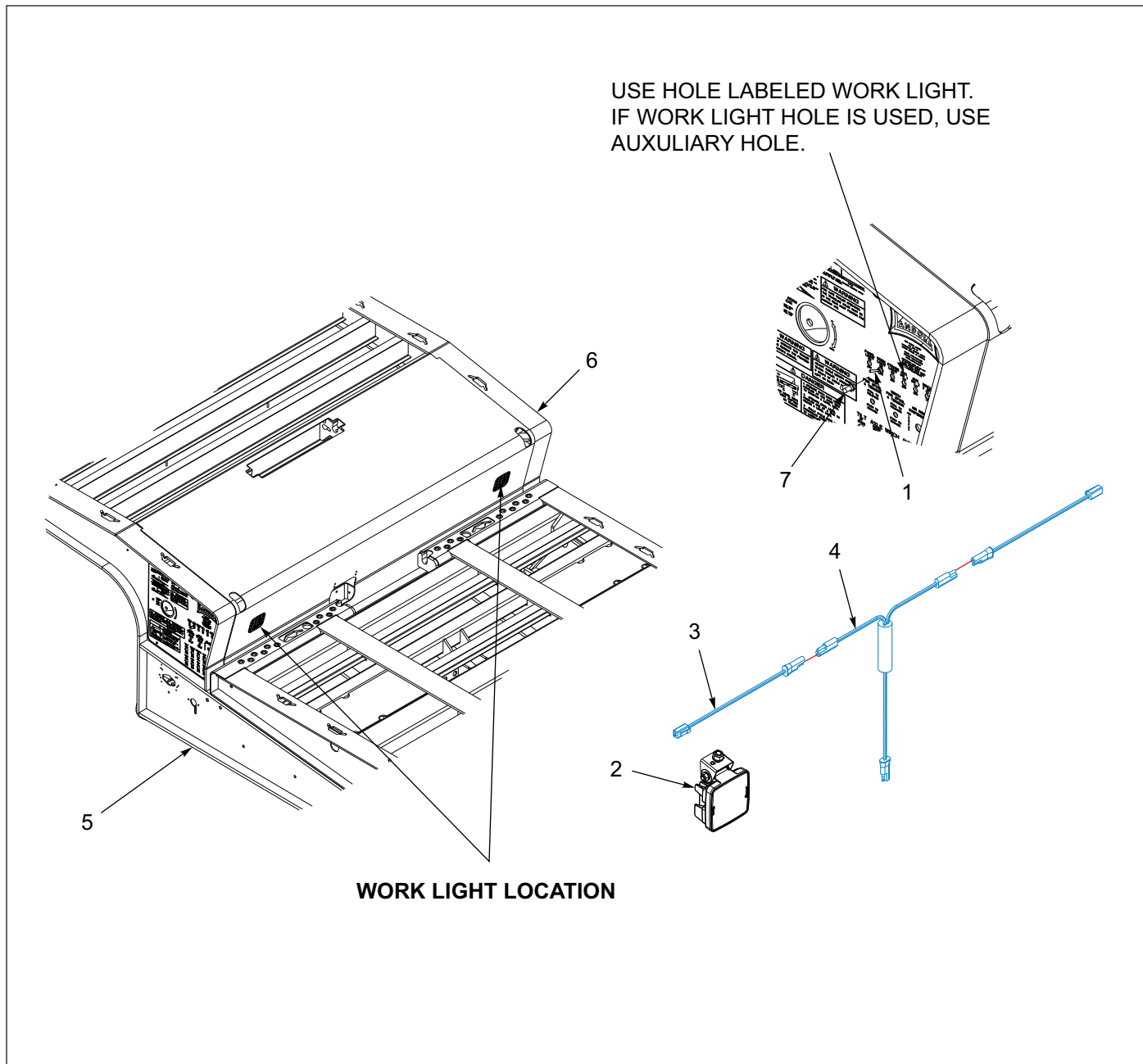


Figure 1-112: Upper Deck - Slope Light Installation

Upper Deck - Slope Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	212392	LIGHT INSTALLATION, 400 U/D SLOPE	
1	150117	TOGGLE SWITCH, SEALED S.P.S.T.	1
2	163996	LIGHT, LED WHITE FLOOD LAMP	2
3	164052	HARNESS, 60" BRANCH WORK LIGHT	2
4	169583	HARNESS, JUMPER T-POWER	1
5	189015	FRAME WLDMT, 440A-53-102	REF
6	213978	G/N WLDMT 400B TOP TLBX	REF
7	81264	RUBBER BOOT FOR ELECT SWITCH	1

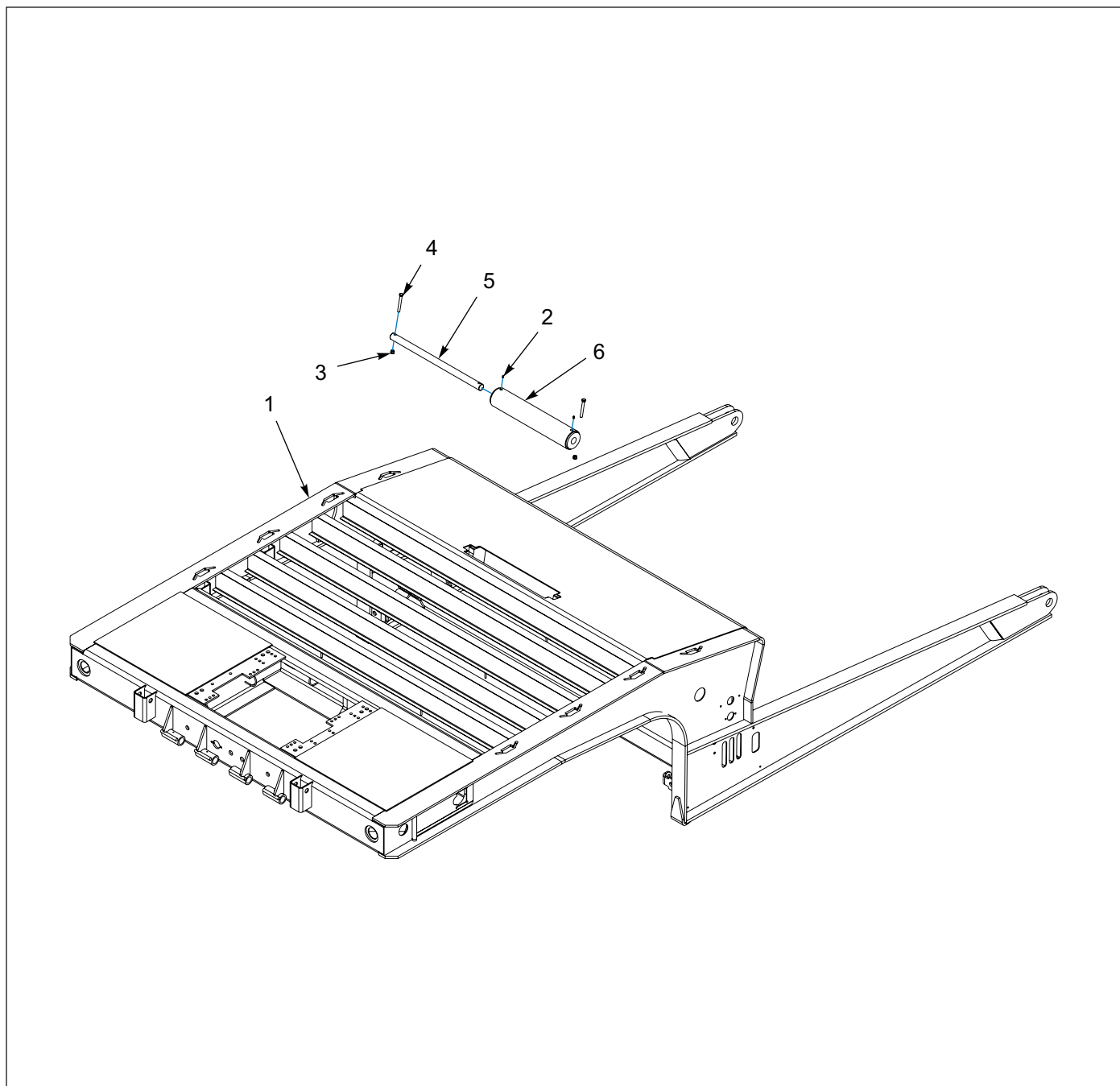


Figure 1-113: Upper Deck - Roller Installation

Upper Deck - Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION	
1	213978	G/N WLDMT 400B TOP TLBX	REF
2	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
5	3-642-010134	ROLLER ROD	1
6	3-645-010059	ROLLER WELDMENT, CABLE U/D	1

Winch Options

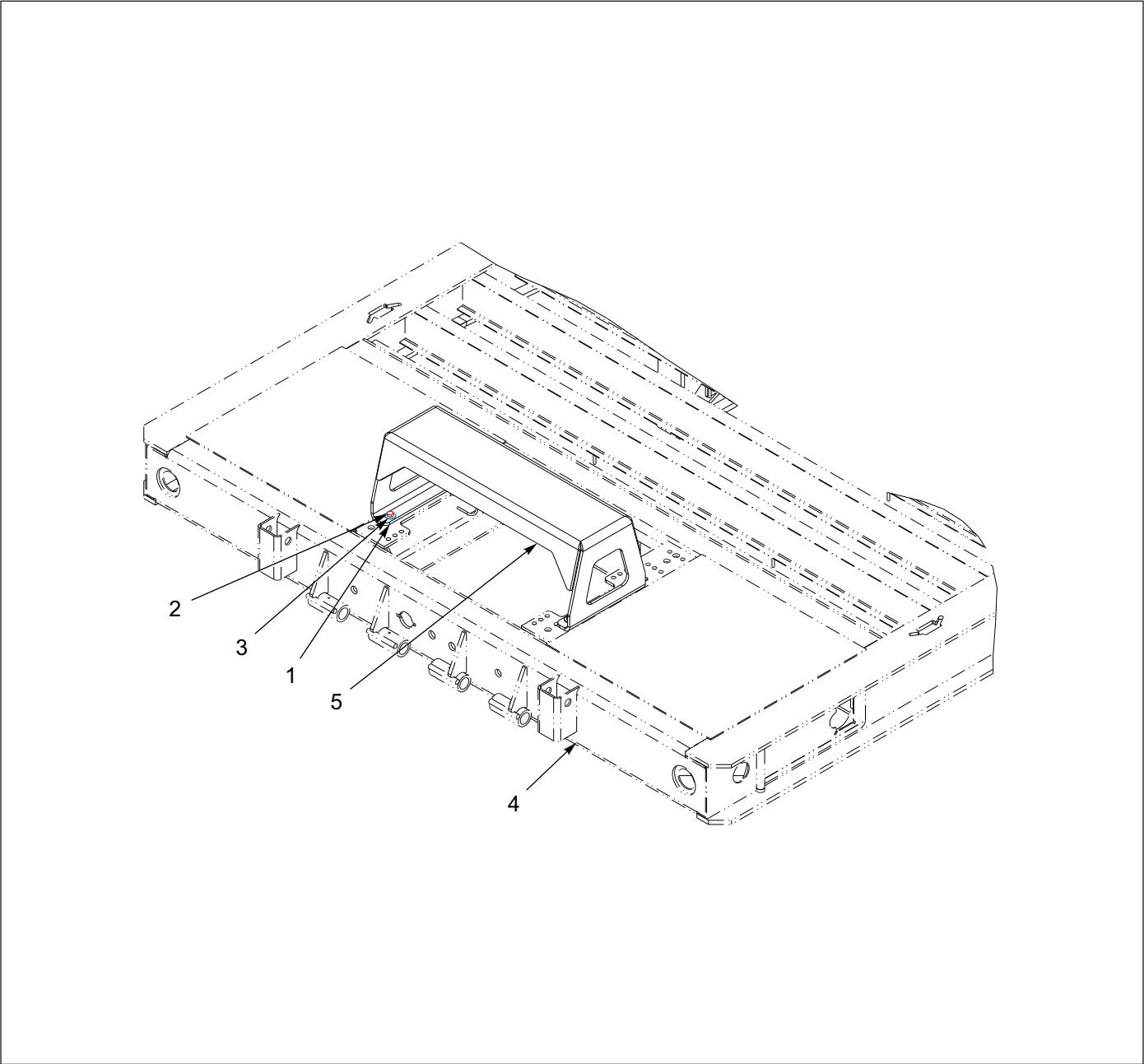


Figure 1-114: Winch - 12K/20K Guard Installation (BRADEN)

Winch - 12K/20K Guard Installation (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	145598	12/20K WINCH GUARD INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 (ARROW INDICATES LOCATION)	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	213978	G/N WLDMT 400B TOP TLBX	REF
5	145599	GUARD, WINCH 12/20K BRADEN	1

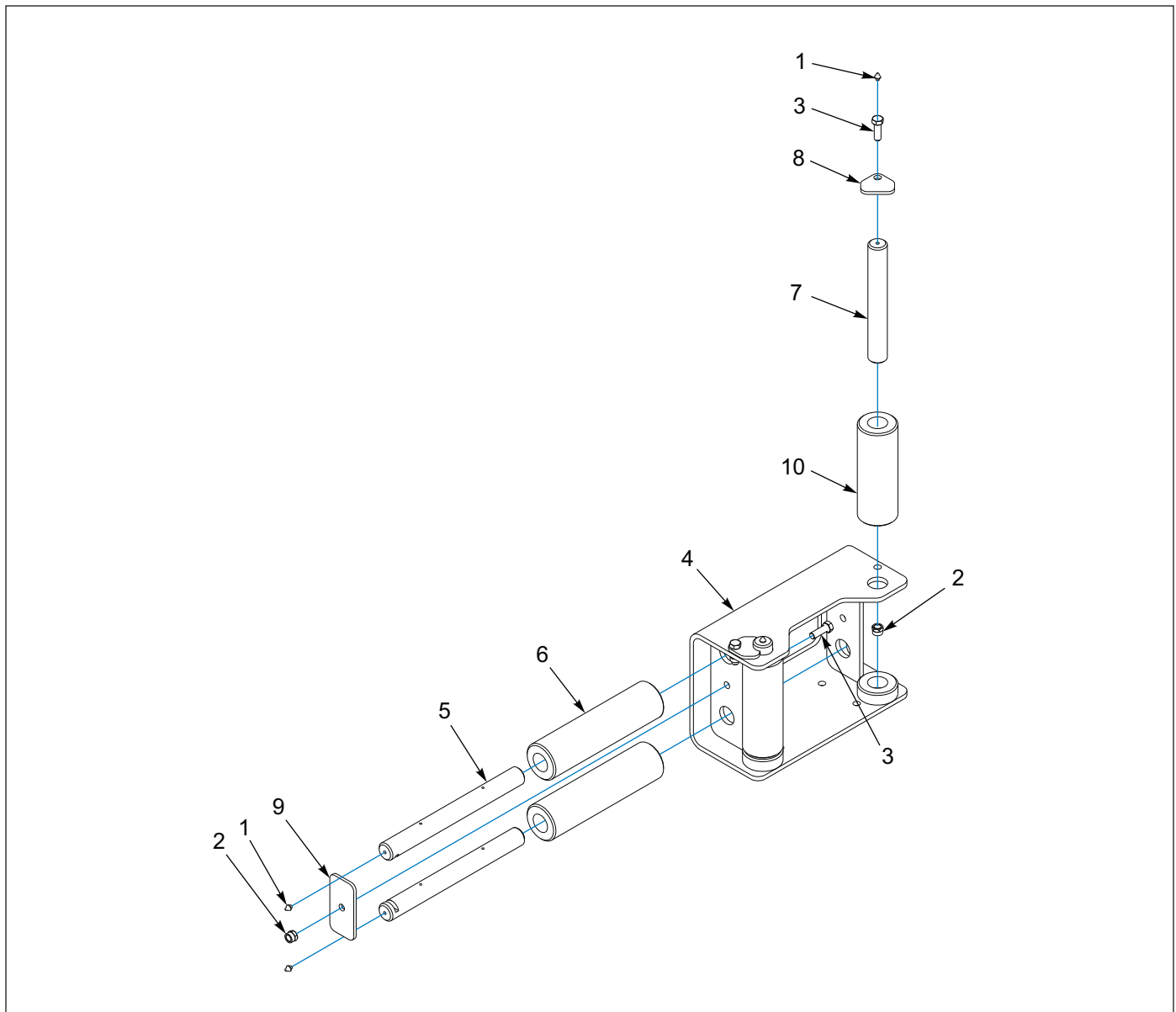


Figure 1-115: Winch - 12K Guide Assembly (BRADEN)

Winch - 12K Guide Assembly (BRADEN)

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

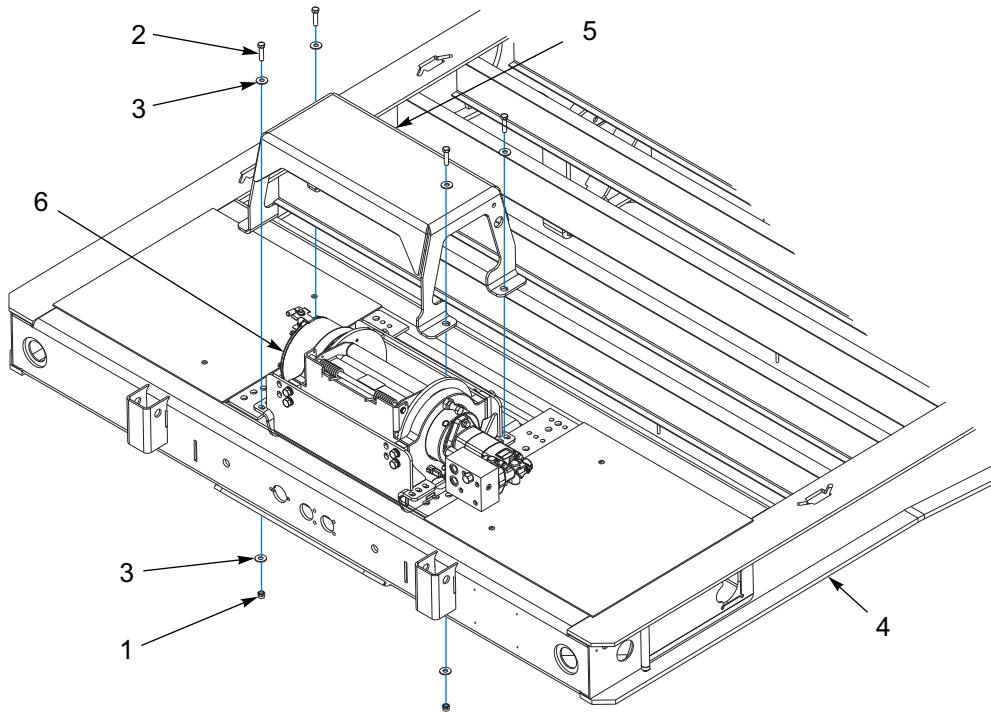


Figure 1-116: Winch - 20K/30K Guard Installation (WARN)

Winch - 20K/30K Guard Installation (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	171166	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	213978	G/N WLDMT 400B TOP TLBX	REF
5	171167	GUARD, WINCH 20K/30K WARN	1
6	----	WINCH ASSEMBLY, WARN	REF

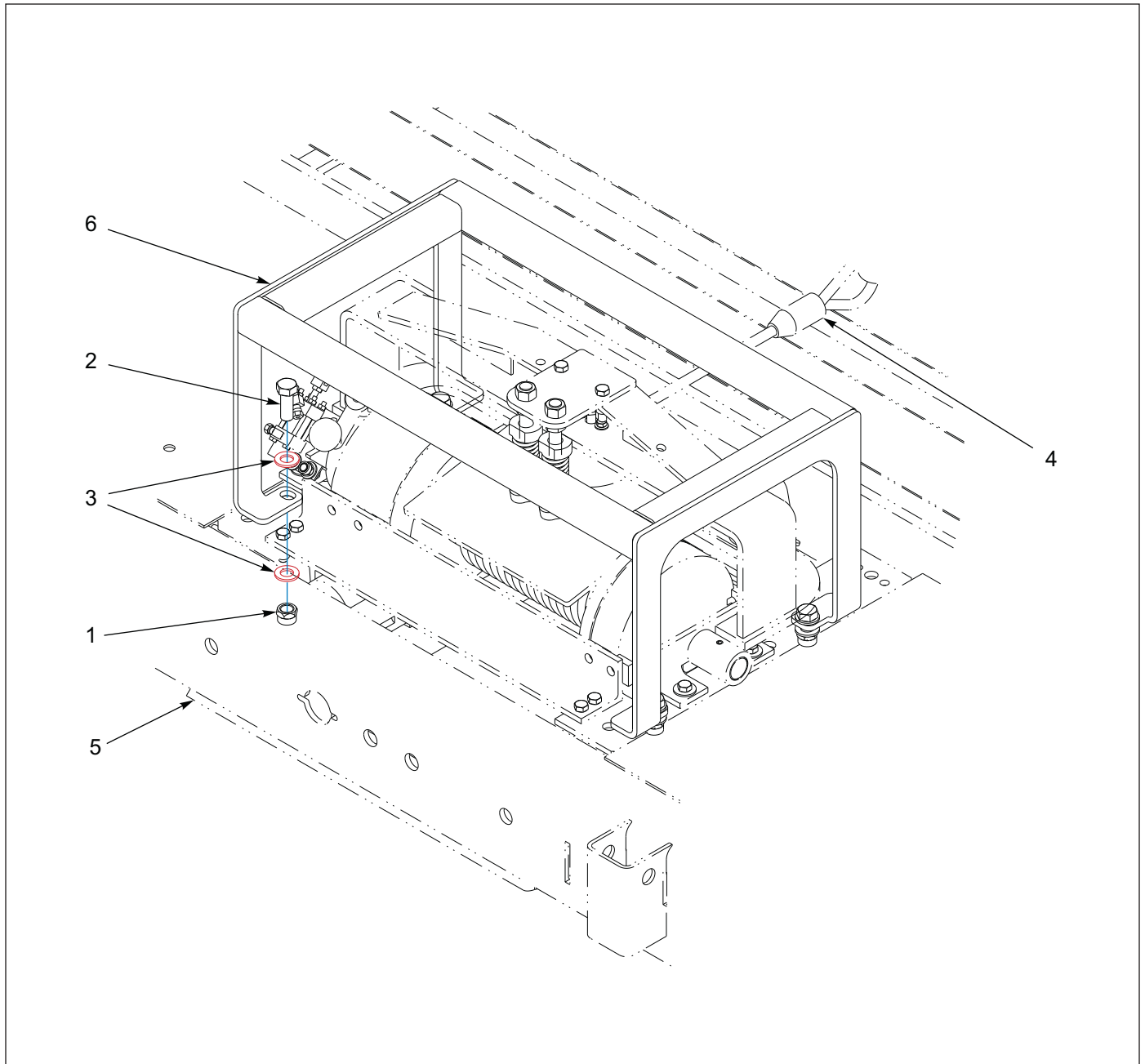


Figure 1-117: Guard Installation, Winch 20K Pivot

Winch - 20K Guard Installation Pivot

ITEM	PART NO.	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	REF
5	213978	G/N WLDMT 400B TOP TLBX	REF
6	163770	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1

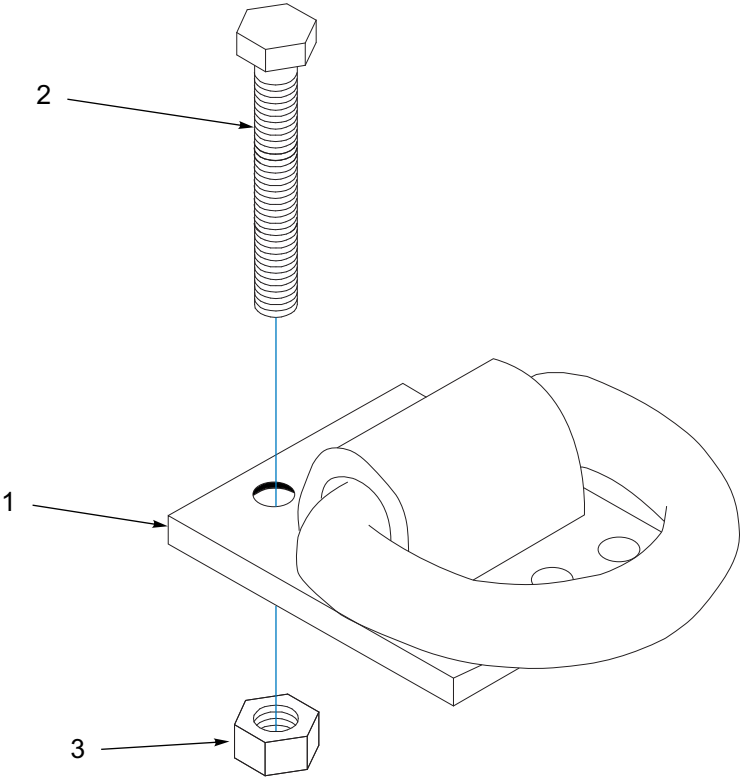


Figure 1-118: Winch - Tie Down Installation

Winch - Tie Down Installation

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

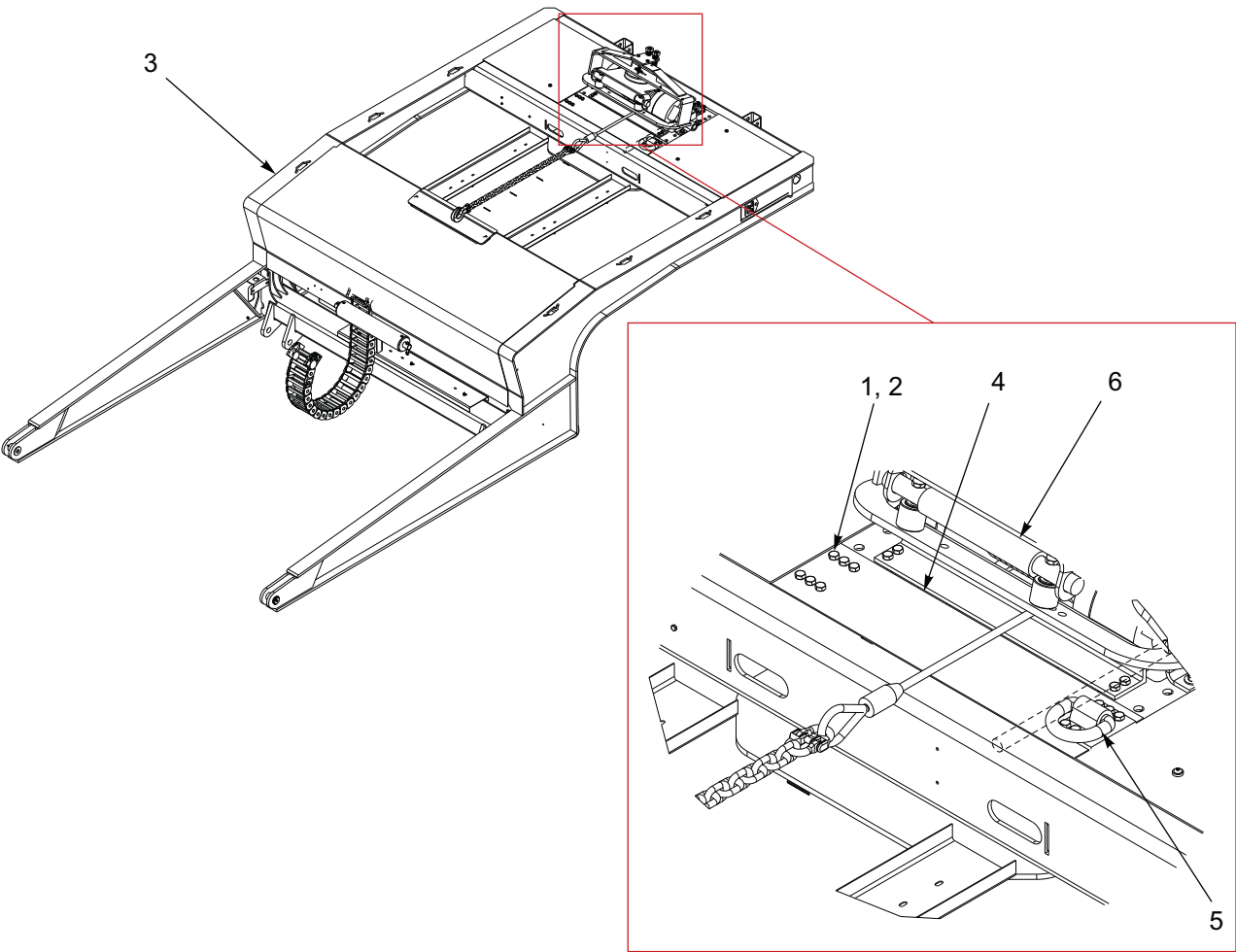


Figure 1-119: Winch Trim Plate Installation

Winch Trim Plate Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	166767	WINCH TRIM PLATE INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	6
3	213978	G/N WLDMT 400B TOP TLBX	REF
4	166768	PLATE, WINCH TRIM 20K	1
5	3-793-010040	TIE DOWN, WINCH	REF
6	3-873-010140-01	WINCH INSTALLATION, 20K UPPER DECK	REF

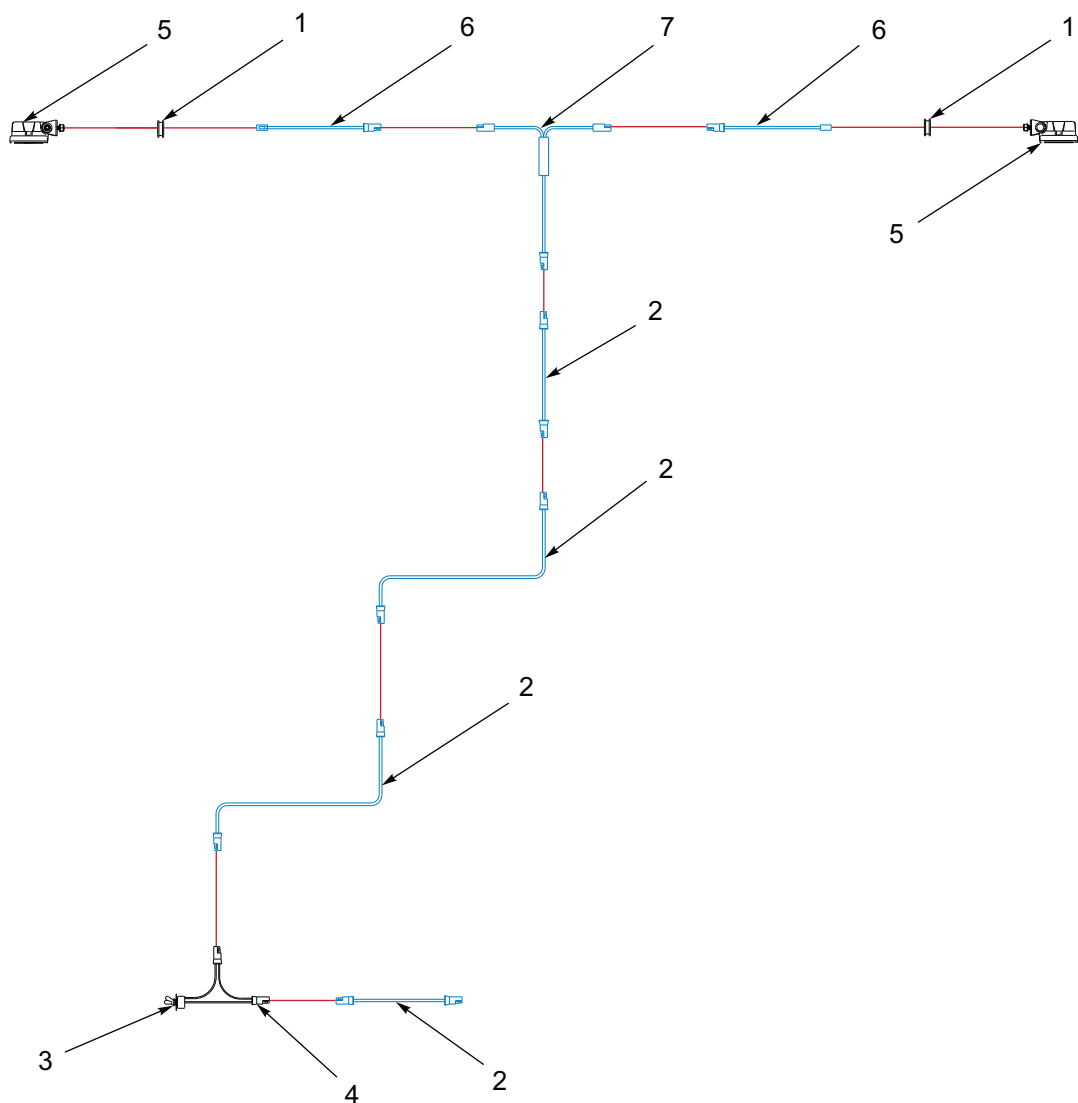


Figure 1-120: Winch - Work Light Installation

Winch - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	191833	WINCH WORK LIGHT INSTALLATION	
1	1-343-010011	GROMMET	2
2	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4
3	81264	RUBBER BOOT FOR ELECT SWITCH	1
4	150117	TOGGLE SWITCH SEALED SPST	1
5	163996	LIGHT LED WHITE FLOOD LAMP	2
6	164052	HARNESS, 60" BRANCH WORK LIGHT	2
7	169853	HARNESS, JUMPER T-POWER	1

Miscellaneous Options

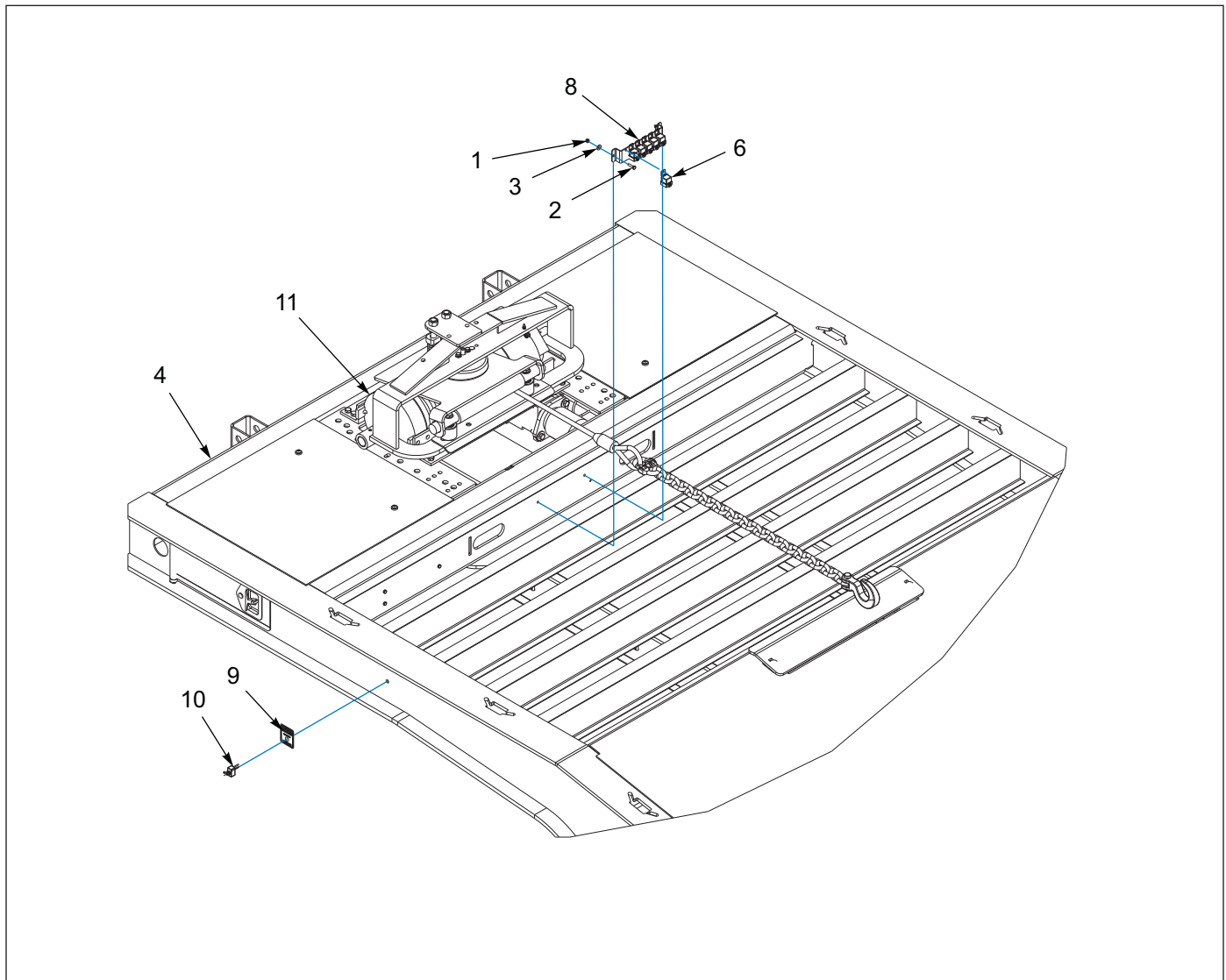


Figure 1-121: Electrical Disconnect Switch Installation

Electrical Disconnect Switch Installation

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

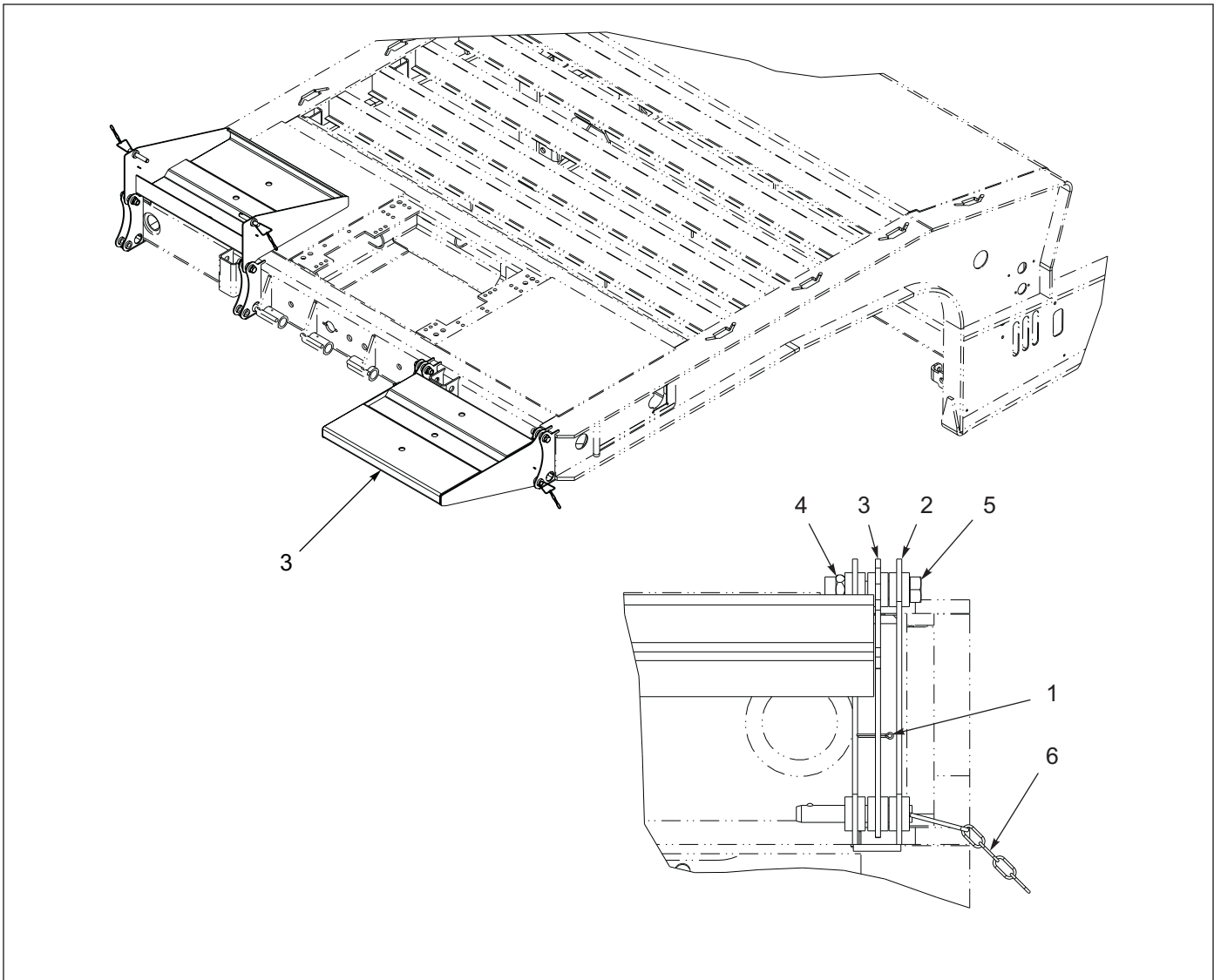


Figure 1-122: Front Flip Extension

Front Flip Extension

ITEM	PART NO.	DESCRIPTION	QTY.		
	130538	FRONT FLIP EXTENSION, 400-102 (WB TOOLBOX ONLY)	*		
	174253	FRONT FLIP EXTENSION, 400-108 (WB TOOLBOX ONLY)		*	
	194164	FRONT FLIP EXTENSION, 400-120 (WB TOOLBOX ONLY)			*
1	101386	PIN, COTTER 1/8 X 1	4	4	4
2	130537	FRAME MOD., FRONT FLIP	1	1	1
3	130540	EXTENSION WELDMENT, FRONT FLIP 400	2	*	*
	174254	EXTENSION WELDMENT, FRONT FLIP, 108	*	2	*
	194162	EXTENSION WELDMENT, FRONT FLIP, 120	*	*	2
4	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4	4	4
5	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	4	4	4
6	2-557-010426	PIN, DETENT 5/8 W/ CHAIN	2	2	
7	185038	STRAP INSTL FLIP EXT SUPPORT (USED W/ WARN OR DP WINCH)	REF	REF	REF

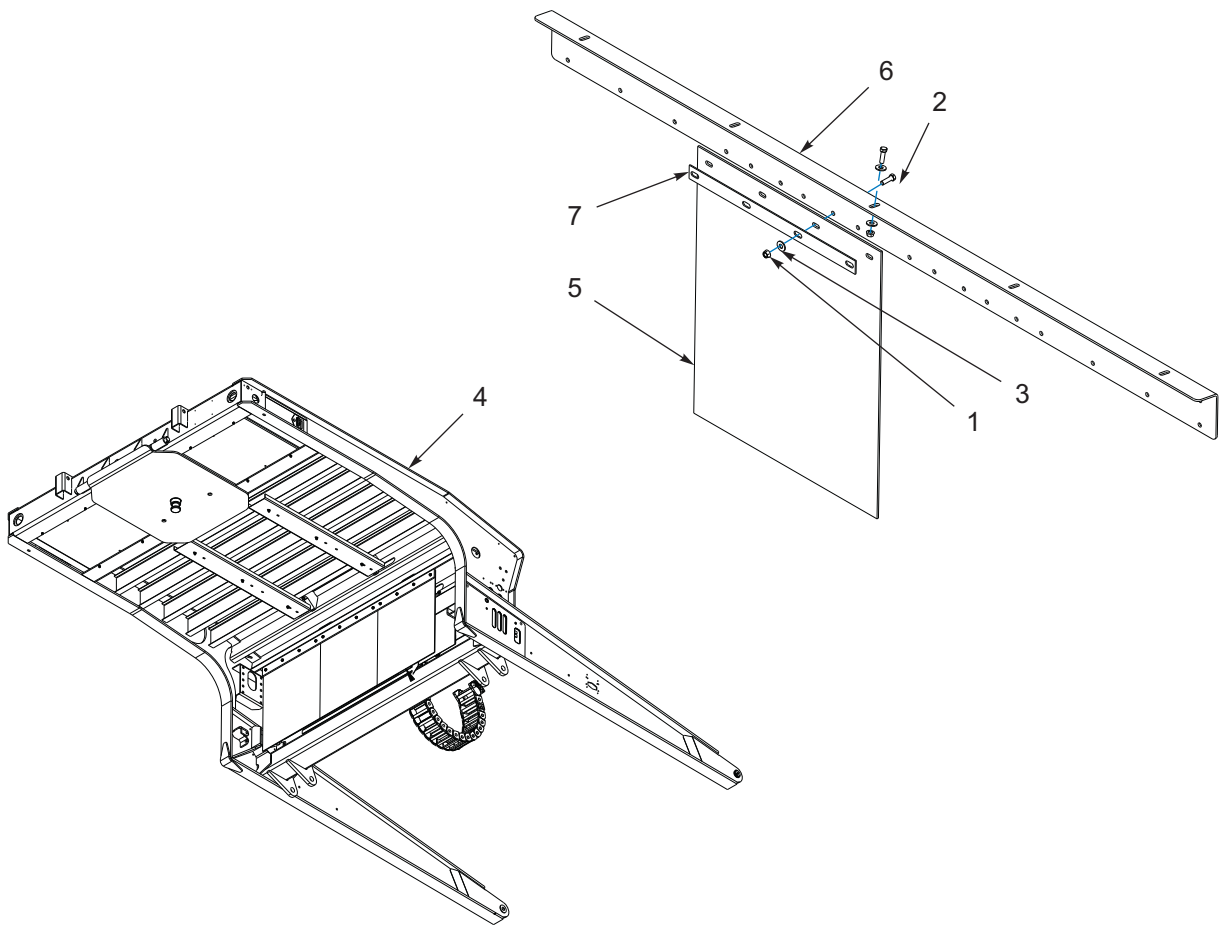


Figure 1-123: Mud Flap Installation - Located Under G/N

Gooseneck Mud Flap Installation

ITEM	PART NO.	DESCRIPTION	QTY.		
	164434	MUD FLAP INSTALLATION (455-108)	*		
	174597	MUD FLAP INSTALLATION (400-102)	*		
	180539	MUD FLAP INSTALLATION (400-120)	*		
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	12	17	20
2	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12	17	20
3	1-861-010032-11	WASHER, FLAT 3/8W	12	22	25
4	213978	G/N WLDMT 400B TOP TLBX	REF	REF	REF
5	131195	MUD FLAP, BLACK POLYMER 24 X 30	3	3	4
6	180538	BRACKET, MUDFLAP G/N UNDERSIDE	--	1	--
7	3-762-010017	CLAMP, MUD FLAP	3	3	4

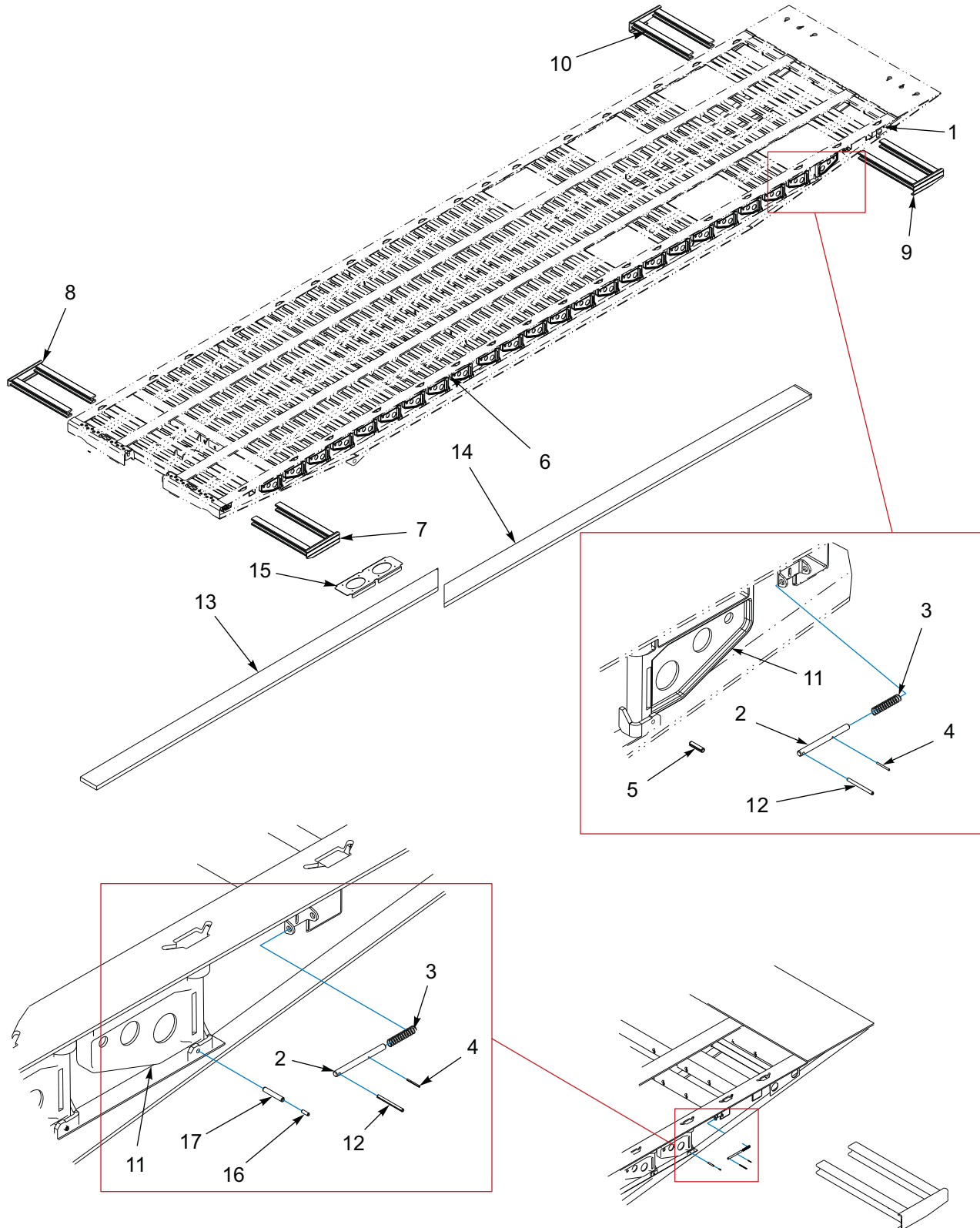


Figure 1-124: Outrigger Installation

Outrigger Installation

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

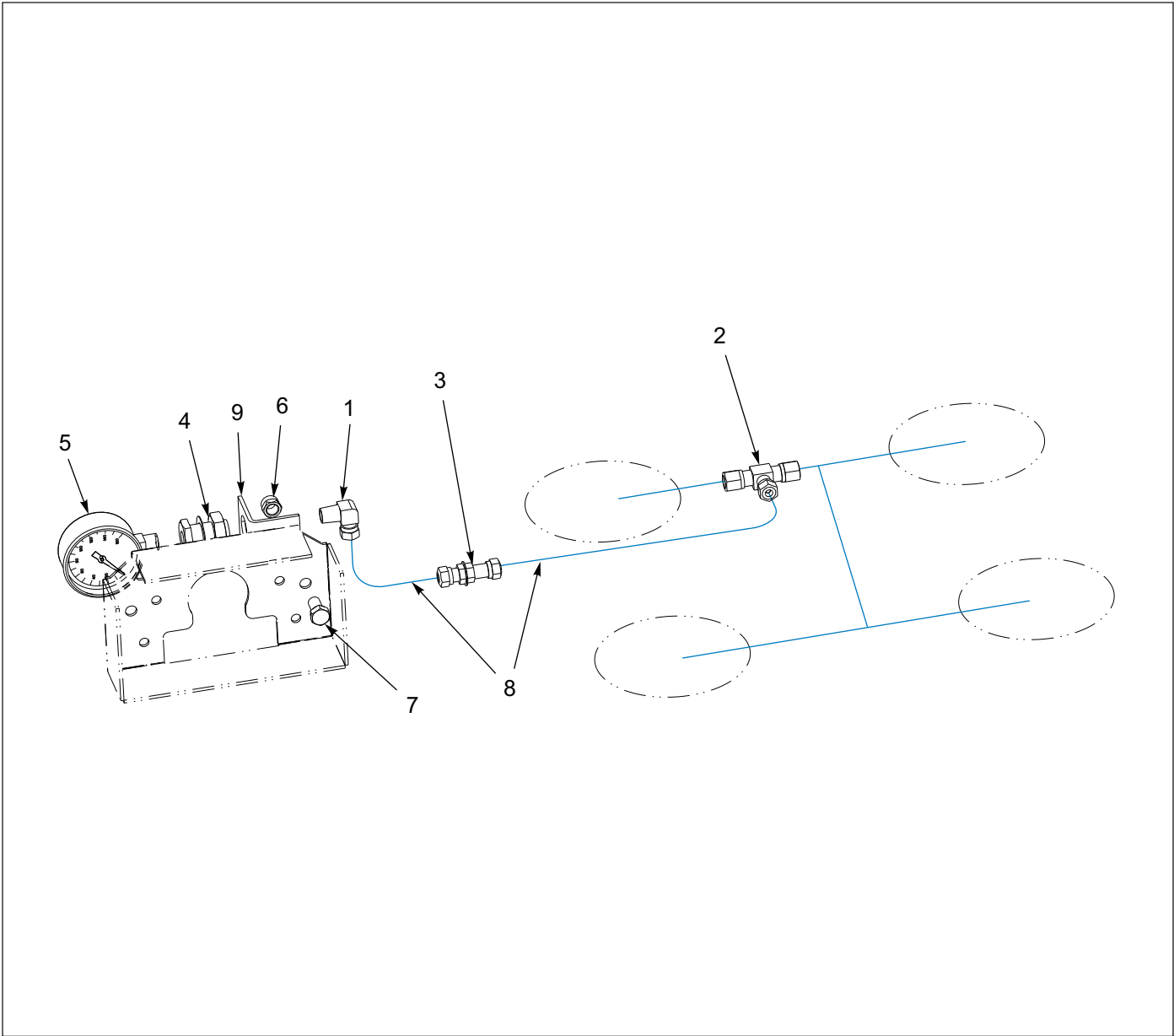


Figure 1-125: Pressure Gauge Installation

Pressure Gauge Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	128601	PRESSURE GAUGE INSTALLATION	
1	1-297-010008-07	FITTING, AIR 90	1
2	1-297-010010-04	FITTING, AIR UNION TEE	1
3	1-297-010014-02	FITTING, AIR	1
4	1-297-010022-02	FITTING, AIR ANCHOR	1
5	1-323-010008	GAUGE, PRESSURE 0 - 160 PSI	1
6	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
7	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	1
8	1-833-010002	TUBING NYLON 3/8	REF
9	3-120-010445	BRACKET, PRESSURE REGULATOR	1

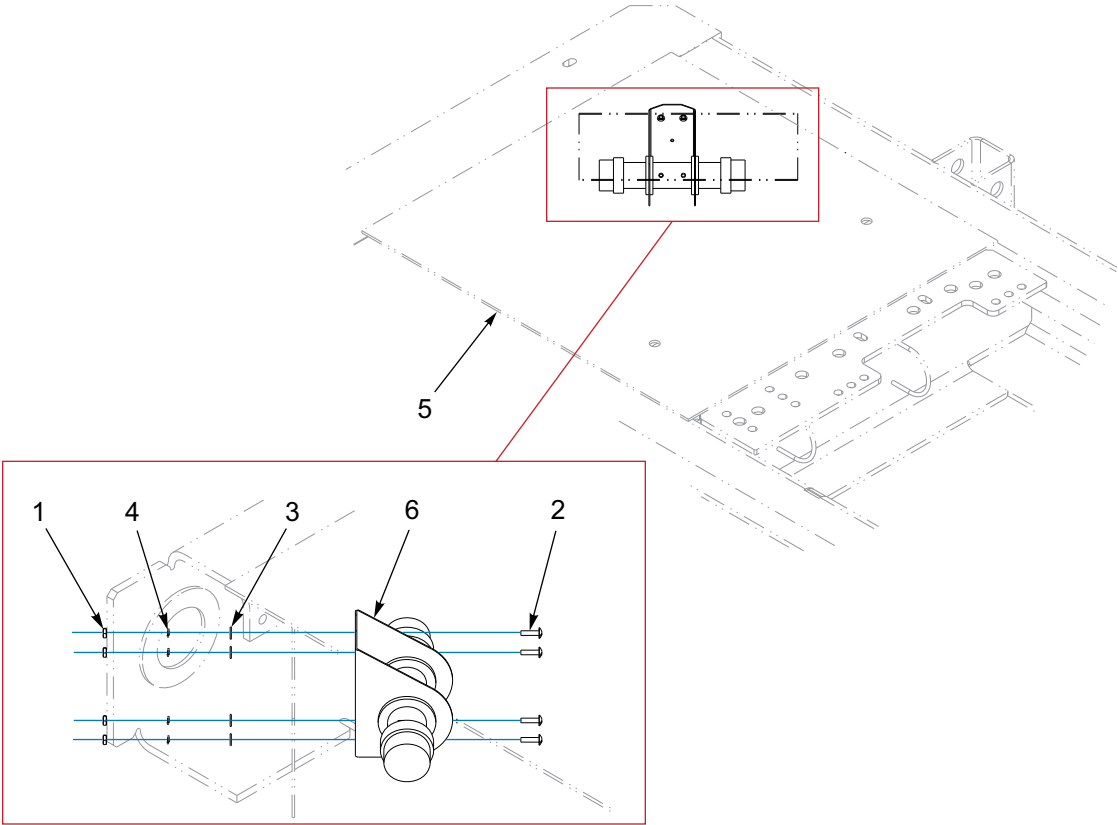


Figure 1-126: Registration Holder Installation

Registration Holder Installation

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

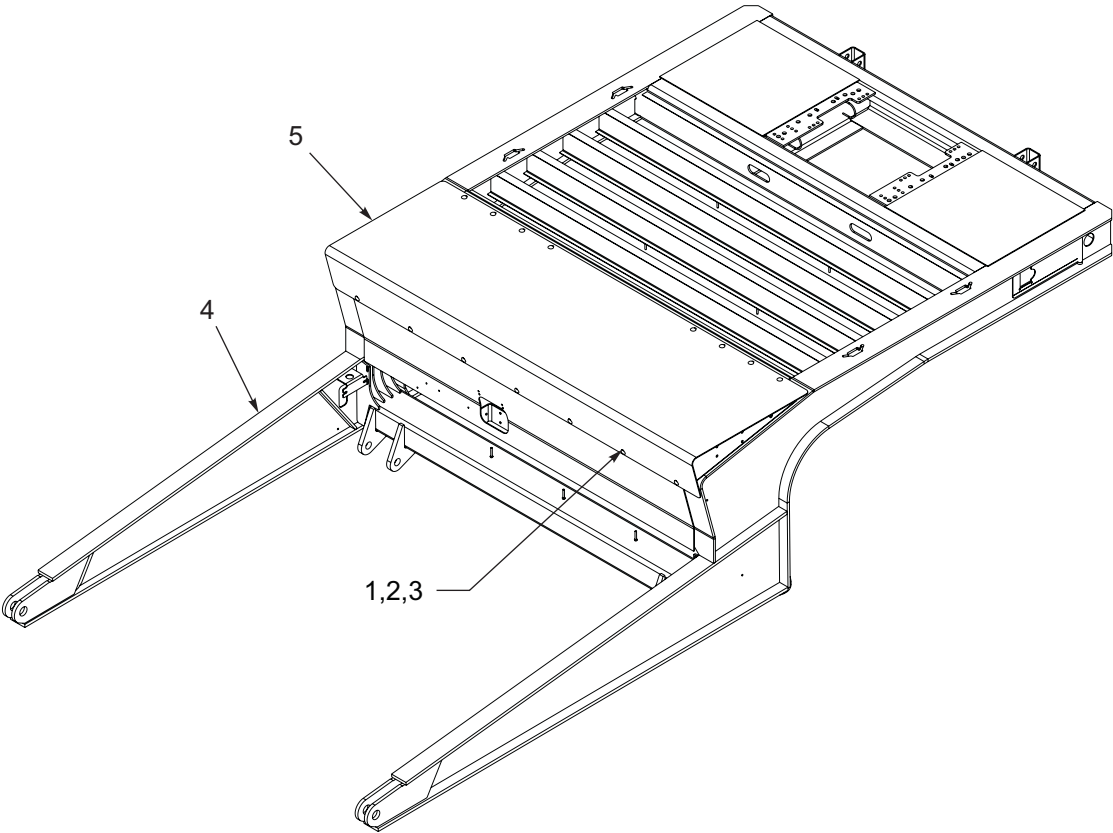


Figure 1-127: Slope Filler Deck Installation

Slope Filler Deck Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	150954	SLOPE FILLER DECK INSTALLATION	
	150965	GALVANIZED SLOPE FILLER DECK INSTALLATION	
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	15
2	1-654-010070-03	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/2	15
3	1-861-010032-15	WASHER, FLAT 1/2W	15
4	213978	G/N WLDMT 400B TOP TLBX	REF
5	150950	SLOPE FILLER WELDMENT (SPECIFY GALVANIZED OR PAINTED)	1

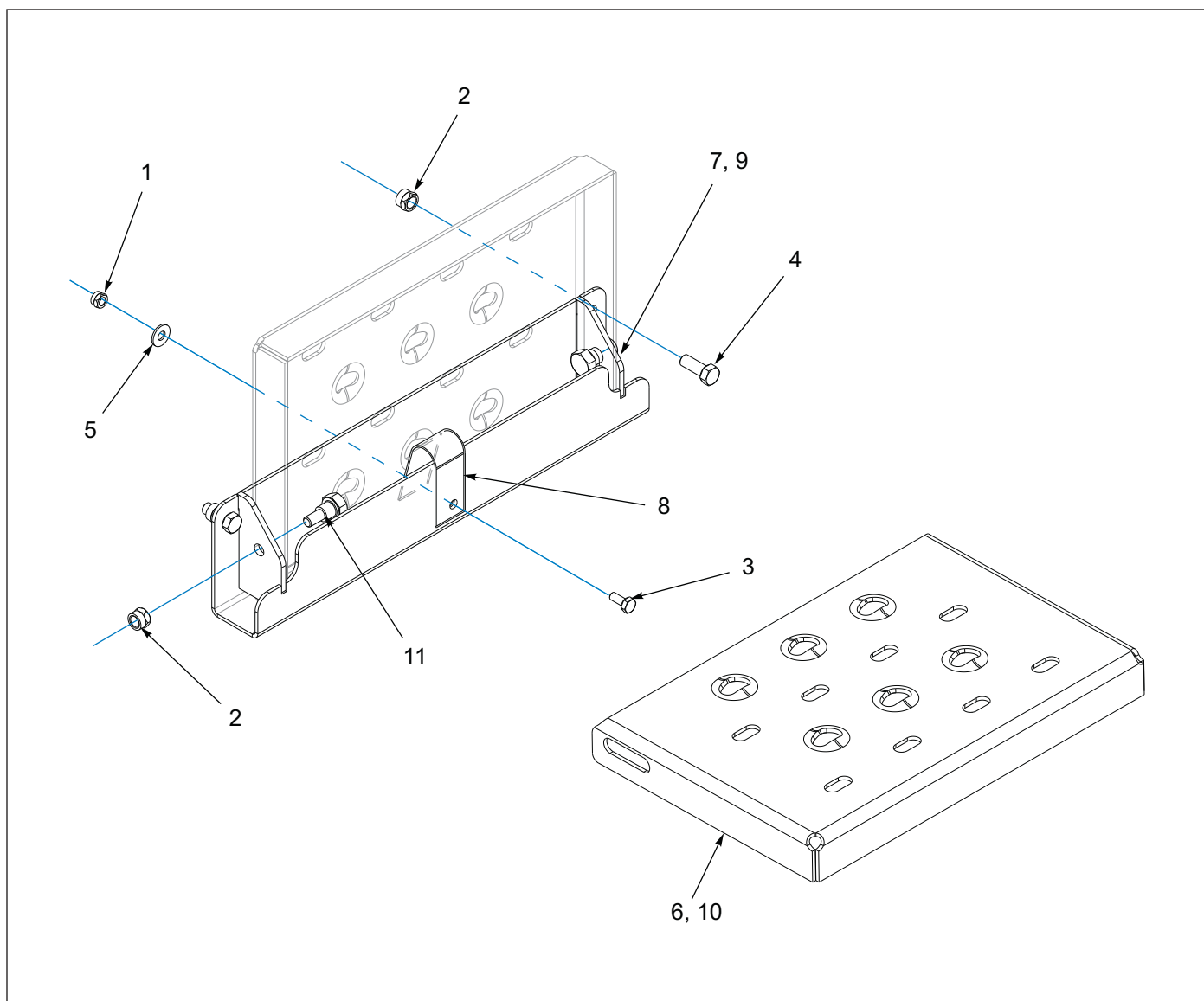


Figure 1-128: Folding Step - Option

Folding Step - Option

ITEM	PART NO.	DESCRIPTION	QTY.	
	174061	STEP ASSEMBLY, FOLDING (YELLOW)	*	
	189699	STEP ASSEMBLY, FOLDING (BLACK)	*	
1	1-512-010005-01	NUT, HEX, SLFLKG, 1/4-20 UNC, GRB	1	1
2	1-512-010005-05	NUT, HEX, SLFLKG, 3/8-16 UNC, GRB	4	4
3	1-654-010047-03	SCREW, HEX, 1/4-20UNCX5/8 GR5	1	1
4	1-654-010051-05	SCREW, HEX, 3/8-16UNCX1 GR5	2	2
5	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	1	1
6	174058	STEP FOLD UP	1	--
7	174091	ANCHOR WLDMT FOLDING STEP	1	--
8	174092	SPRING, STAY, FOLDING STEP	1	1
9	190556	ANCHOR WLDMT FOLD STEP (BLACK)	--	1
10	190557	FOLD STEP UP (BLACK)	--	1
11	2-095-010017	SCREW, HEX, 1/2-13UNCX1 GR5	2	2

Symbols

#242 LOCKTITE 1-86

Numerics

0013007 1-163
 0047008 1-178
 005-074-00 1-58
 005-079-00 1-58, 1-60
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 007-139-00 1-58, 1-60
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 034-192-05 1-60
 034-193-05 1-60
 040-180-00 1-60
 040-320-01 1-58
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 10030 1-140
 100348 1-110, 1-111, 1-113, 1-114, 1-117
 100401 1-62
 100402 1-62
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103166	1-108	109711	1-106
103805	1-58, 1-60	109712	1-106
103817	1-40, 1-176	1-1/4ST ELL	1-147
103841	1-13, 1-19, 1-179	110-0116	1-140
103861	1-67	110-0253	1-140
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104243	1-102	110448	1-91
104253	1-195	110451	1-91
1046	1-94	110452	1-79, 1-91
105408	1-56	110578	1-140
105479	1-24, 1-140, 1-147, 1-149, 1-150	111008	1-56
105480	1-24, 1-140, 1-147, 1-149, 1-150	111010	1-56
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105482	1-24, 1-140, 1-147, 1-149, 1-150	111012	1-56
105483	1-24	111013	1-56
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105902	1-150	111015	1-56
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1-397-010302172	1-76, 1-82, 1-87		

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143850	1-141	150954	1-198
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156655	1-58	163472	1-90
157662	1-149	163502	1-106
157663	1-149	163769	1-187
157664	1-149	163770	1-187
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