Model 455B Euro
Traveling Axle Semitrailer
Parts Manual

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

NOTE

- Frame & Features:
- Capacity: 40 Ton (80,000 Pounds)
- Deck Rating: 50,000 Pounds in a 10 Foot Section
- Main Frame: Fabricated 80,000 and 100,000 PSI yield, 40 Inch Center, Four Beam Design
- Crossmembers: Alternating 4 Inch and 3 Inch Junior I-Beam on 8 Inch Centers
- **Capacity ratings are frame capacities only. Actual load capacities may be restricted by factors such as weight ratings or state and federal regulations. These specifications are subject to change without notice.

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Instructions for Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

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

IDENTIFICATION PLATE

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

SERIAL NUMBER NOMENCLATURE

The serial number for the Model 455B Euro Series Semitrailer is located on the identification plate.

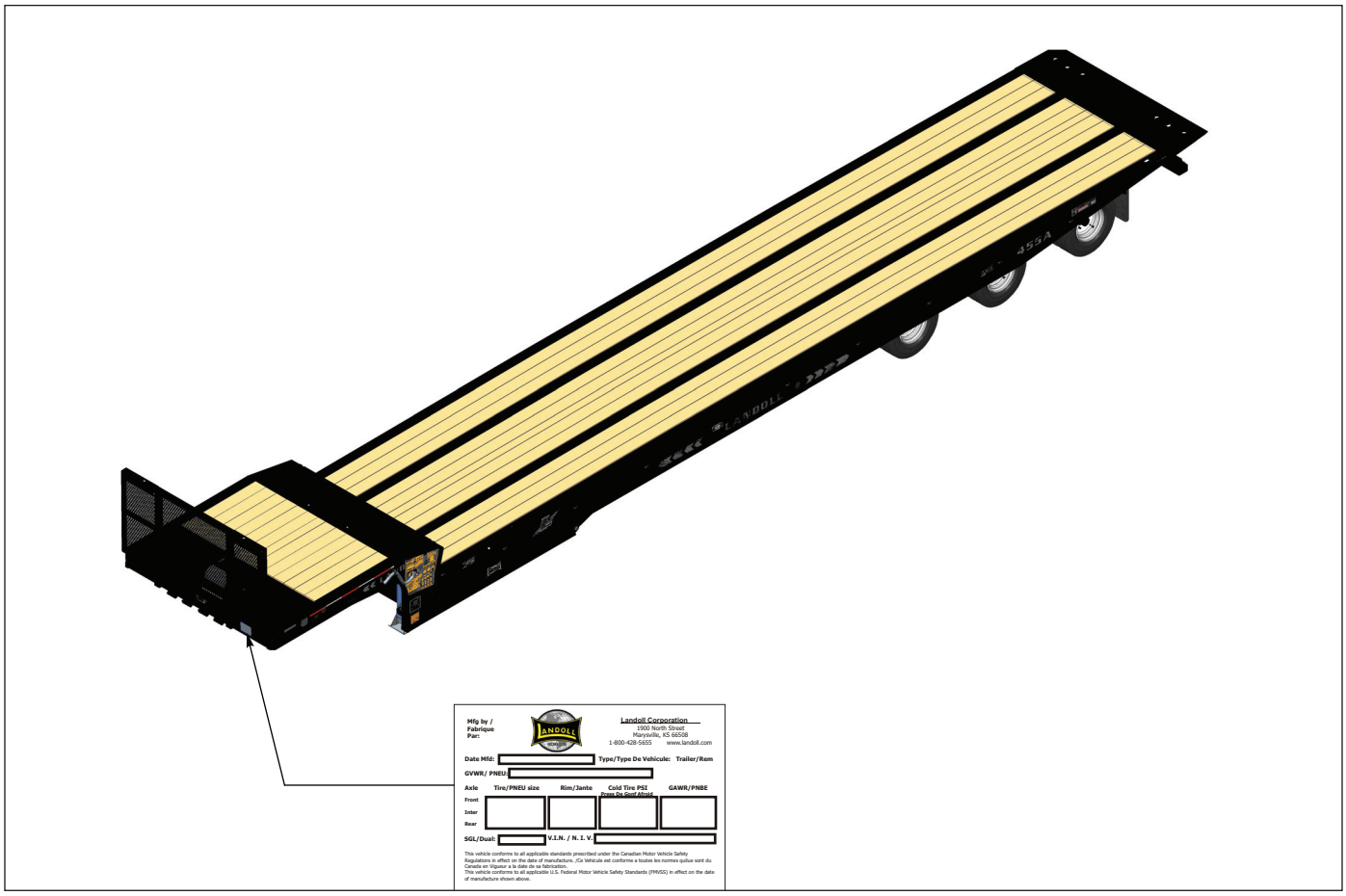

Figure 1-1: Identification Plate and Location

Decals

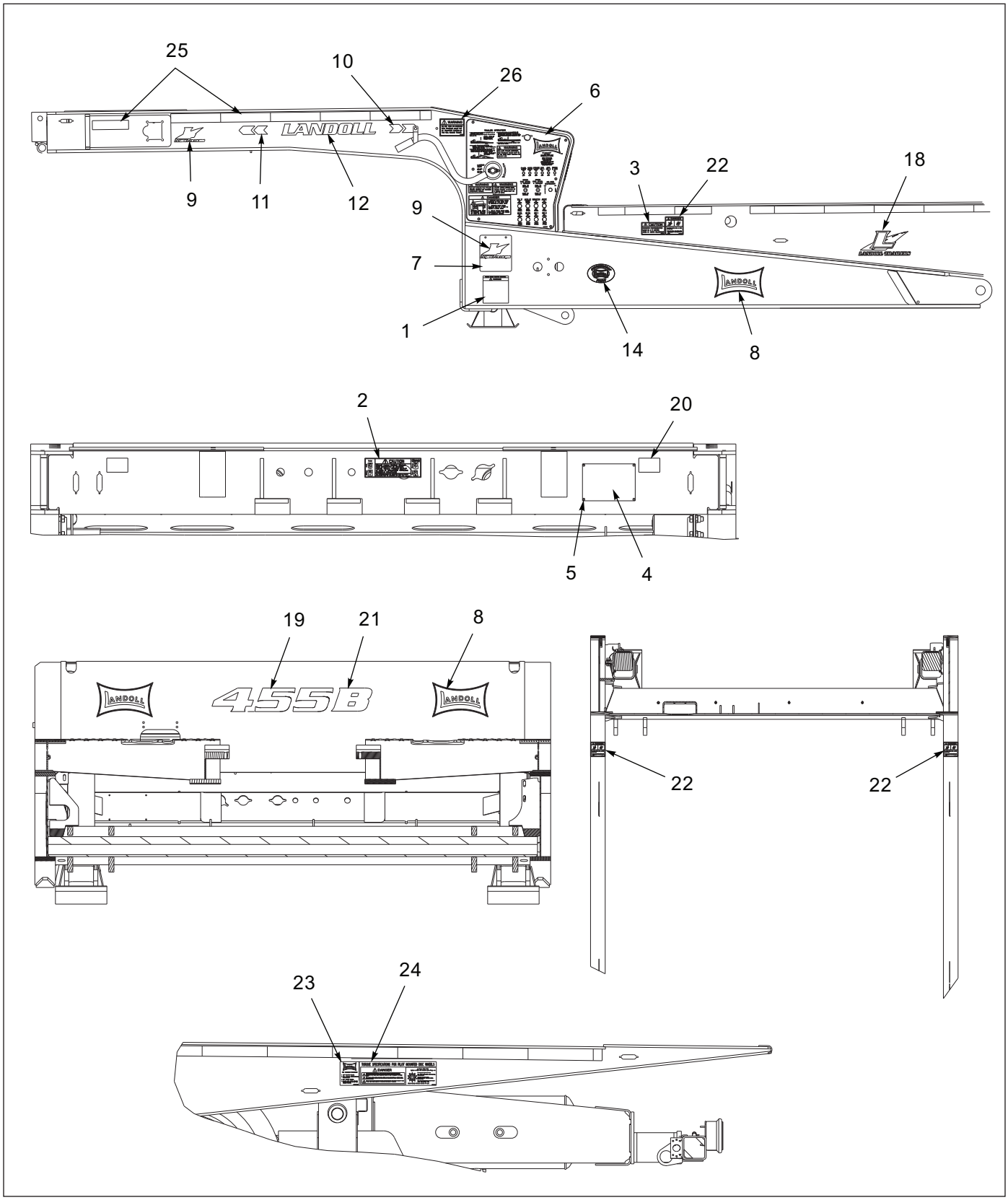

Figure 1-2: Decal Arrangement (1 of 2)

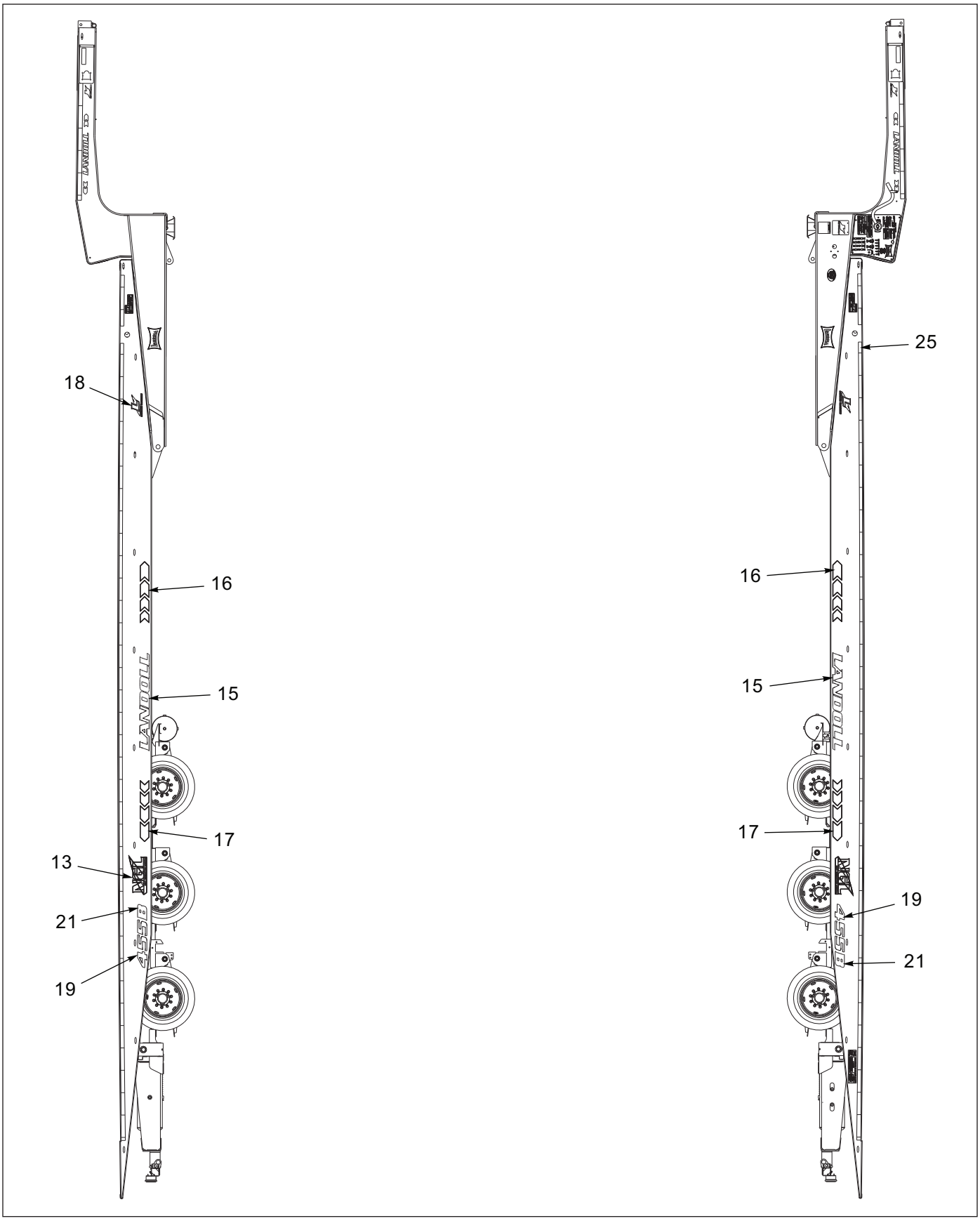

Figure 1-3: Decal Arrangement (2 of 2)

Decal Arrangement

ITEM	PART NO.	DESCRIPTION	QTY.
	218020	DECAL INSTL 455B EURO **(REF ONLY)**	*
1	100600	DECAL WARNING BRADEN WINCH	REF
2	105822	DECAL, HYD COUPLER	REF
3	116849	DECAL,CAUT 31KG/5M CONC LOAD	2
4	155780	TRAILER VIN PLATE	1
5	156010	RIVET, BLIND .156X1/2 GRIP	4
6	186889	PLACARD, CONTROL PANEL	REF
7	189253	PLATE, COVER,WEIGHT SCALE	REF
8	192208	DECAL BOWTIE 6-3/4 X 11	4
9	196165	DECAL HIGHWAY L	3
10	196167	DECAL LANDOLL SMALL	2
11	196168	DECAL ARROW SMALL 2LH	2
12	196168	DECAL ARROW SMALL 2LH	2
13	196171	DECAL NEXT GENERATION	2
14	196173	DECAL POWDERCOAT SMALL	1
15	196174	DECAL LANDOLL LARGE	2
16	196175	DECAL ARROW LARGE 4RH	2
17	196176	DECAL ARROW LARGE 4LH	2
18	196177	DECAL HIGHWAY L LARGE	2
19	197420	DECAL 455 TRAILER	3
20	202578	REFLEXITE WHITE 3" LENGTH	2
21	212388	DECAL LETTER B LARGE	3
22	2-573-010335	DECAL, DANGER PINCHING	4
23	3-573-010189	DECAL, TIRE CHANGING PROCED	1
24	3-573-010210	DECAL TORQUE SPEC 8-10STU HUB	1
25	3-573-010377	DECAL,2"REFLEXITE TAPE,RD/WHT	REF
26	217155	DECAL, WARNING TRAVELING AXLE	REF

Table provided for general use.

NOTES:

Upper Deck

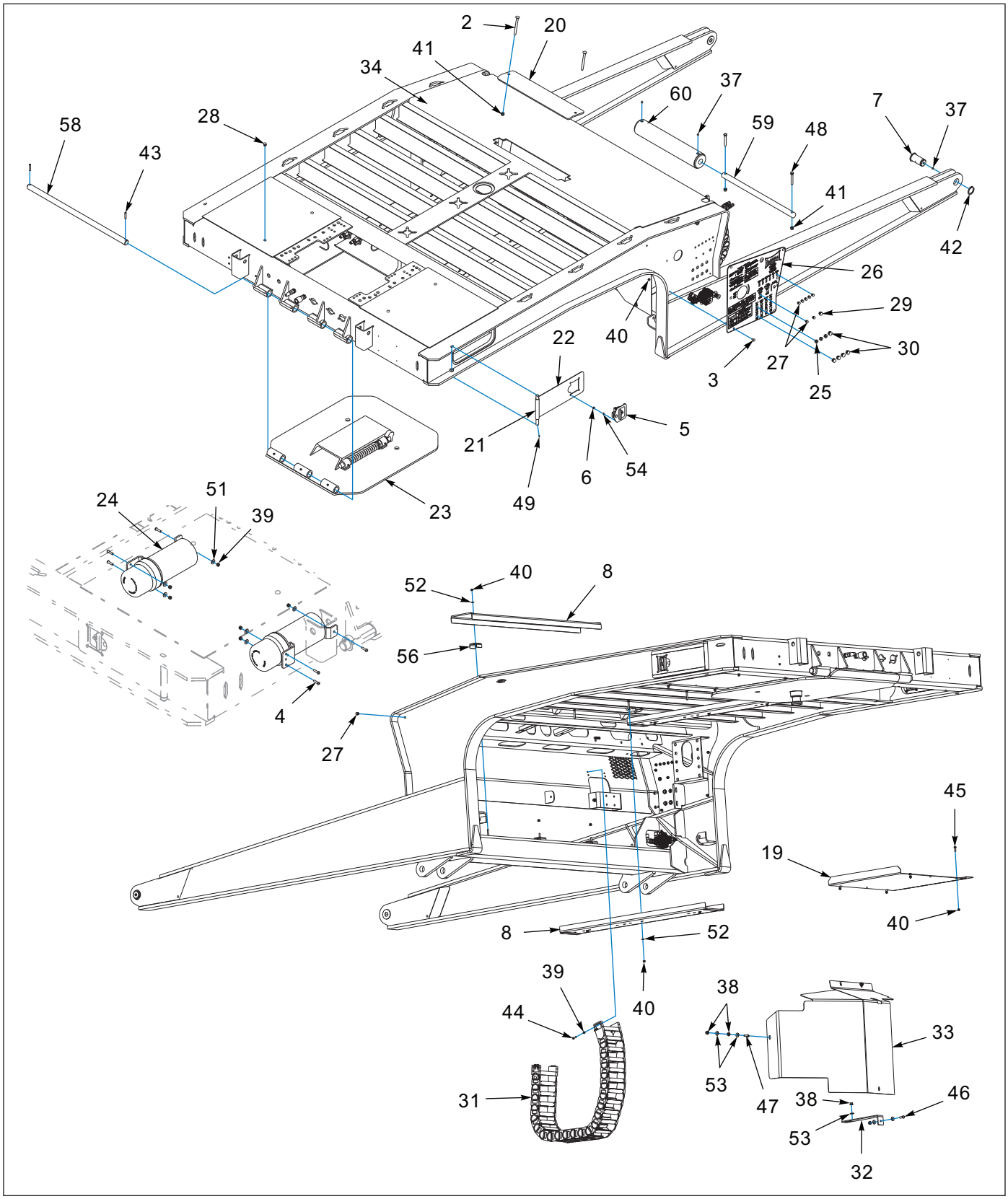

Figure 1-4: Upper Deck Assembly (1 of 3)

Table provided for general use.

NOTES:

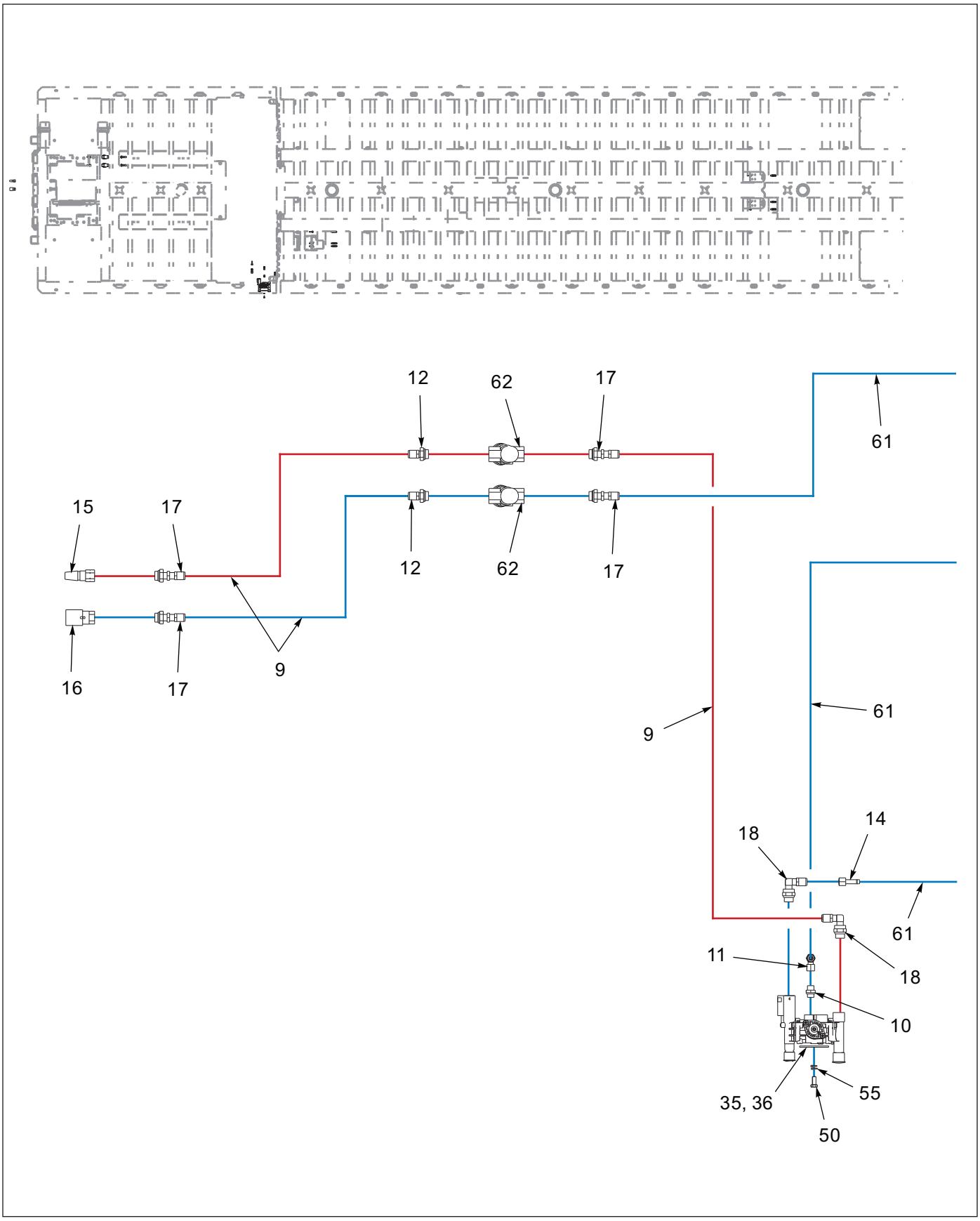

Figure 1-5: Upper Deck Assembly (2 of 3)

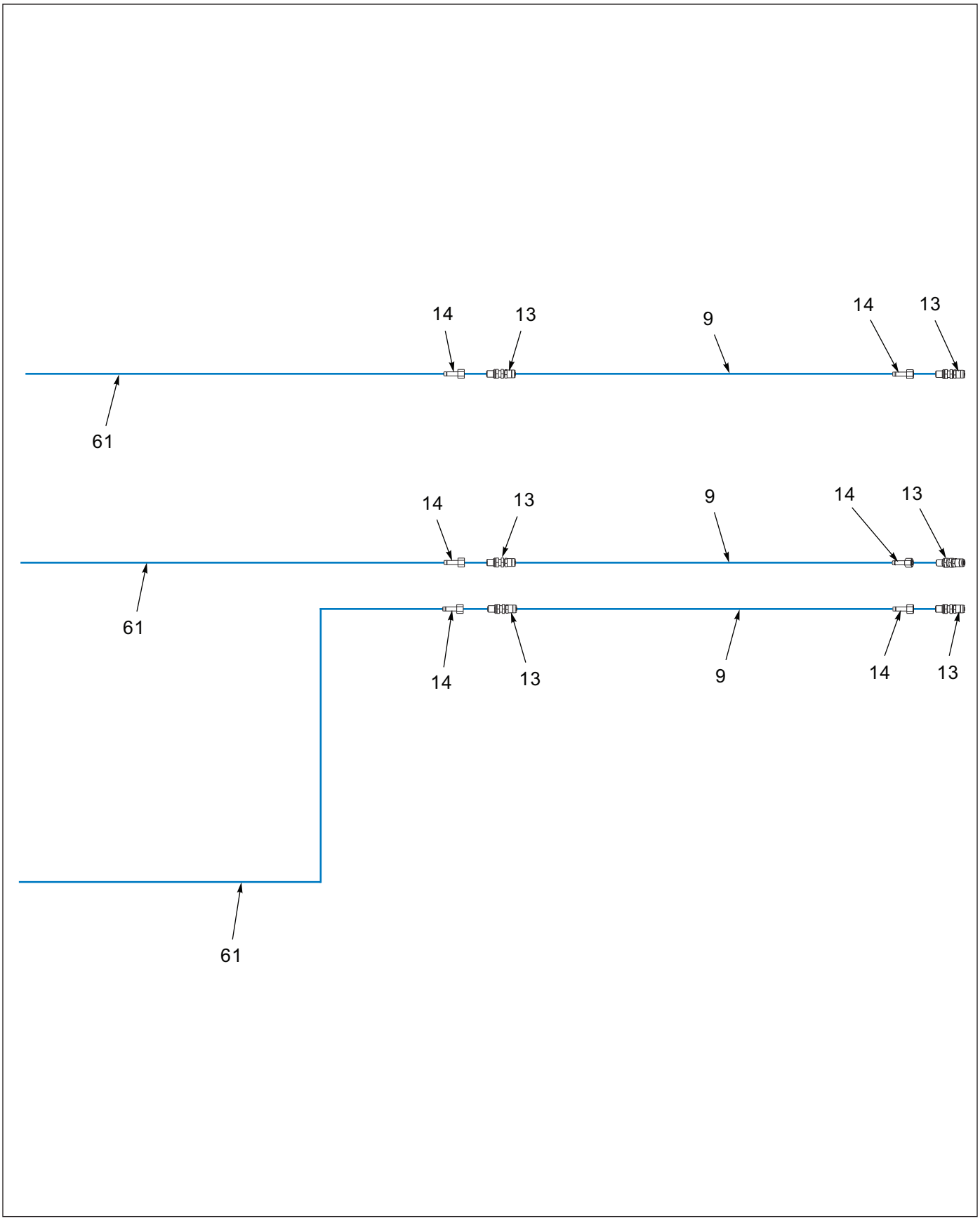

Figure 1-6: Upper Deck Assembly (3 of 3)

Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
1	6812	IDEAL HOSE CLMP1.25MAX-.5MIN	9
2	100939	SCREW,RDHD, SQNCK1/2-13X5-1/2	2
3	105909	SCREW,RDHD,SQNCK,5/16-18X3/4	6
4	108610	SCREW BHSC 1/4-20UNCX1	6
5	114814	LATCH FOLDING T LOCKABLE	2
6	115877	NUT HVY HEX 1/4-20 GR5	8
7	116943	PIN WLDMT PIVOT 410	2
8	117565	COVER,HOSE LOWER, 410 G/N	3
9	118813	TUBING NYLON10MMX1.25DIN74324	100
10	125911	THREAD ADAPTOR M16TOM16 7868T	1
11	125912	STEM ELBOW ADAPTOR 10MM 7343	1
12	125914	STR STUD M22 TO 10MM 7062	2
13	125915	STR BLKHD ST M16-10MM 7135SE	6
14	125916	SWIVEL HOSETAILM16-10MM 7858G	7
15	130178	MALE C COUPLING EMERG M22	1
16	130179	FEMALE C COUPLING SERVICE M22	1
17	130181	STR BLKHD ST M22 10MM 7136	4
18	130185	ELBOW STUD M22 TO 10MM 7171	2
19	130758	PLATE,TOOLBOX BOTTOM,410 EURO	2
20	131196	PLATE,WINCH CABLE WEAR U/D400	1
21	135181	BUSHING NYLATRON TOOLBOX	4
22	136352	DOOR WLDMT TOOLBOX 400 RMW	REF
23	141609	HITCH PLATE ASSY 400	1
24	150076	MANUAL TUBE **(4-1/4"ID)**	2
25	178444	BUSHING NYLON INSERT 9/16ID	3
26	186889	PLACARD, CONTROL PANEL, 400A	1
27	189278	PLUG, PLASTIC PANEL 1/2 & 9/16	8
28	189279	PLUG, PLASTIC PANEL 5/8	4
29	189280	PLUG, PLASTIC PANEL 3/4	1
30	189282	PLUG, PLASTIC PANEL 7/8	5
31	189326	SUPPORT,E-CHAIN,22 LINKS,3838W	1
32	192152	SHIELD BRACE G/N 400A	1
33	197590	SHIELD HYD CONTROLS EURO	1
34	218027	GOOSENECK WLDMT, 400B EURO	1
35	223911	VALVE TRAILER EMERGENCY VALVE	REF
36	223913	DECAL LOAD PLATE	REF
37	1-298-010001-1	ZERK FITTING 1/4 SAE	4
38	1-510-010001	NUT, 3/8-16 UNC FLANGE LOCK	9
39	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	14
40	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	23
41	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4
42	1-630-010021-02	RING, RETAINING 2 HD	2
43	1-647-010004255	PIN, SPRING, SLOTTED 3/8X2	2
44	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	8
45	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	8
46	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	1
47	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
48	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2
49	1-654-010147-06	SCREW RDHD SLF/TPG #6-20X3/4	8

Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
50	1-654-010166-04	SCREW M8-1 25X20 HCS 8.8 ZP	2
51	1-861-010032-07	WASHER,FLAT 1/4 ZP	6
52	1-861-010032-08	WASHER,FLAT 5/16 N ZP	9
53	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	9
54	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	8
55	1-861-010034-10	WASHER,LKG 5/16	2
56	2-181-010001	HOSE CLAMP	3
57	3-201-010002	CONDUIT 3/8 PLASTIC FLEX	REF
58	3-557-010469	HINGE PIN, FIFTH WHEEL	1
59	3-641-010134	ROD ROLLER	1
60	1-645-010059	ROLLER WLDMT,CABLE-UPPER DECK	1
61	54A6X250S	HOSE AIR 3/8	30
62	-----	INLINE FILTER	2

Hydraulic

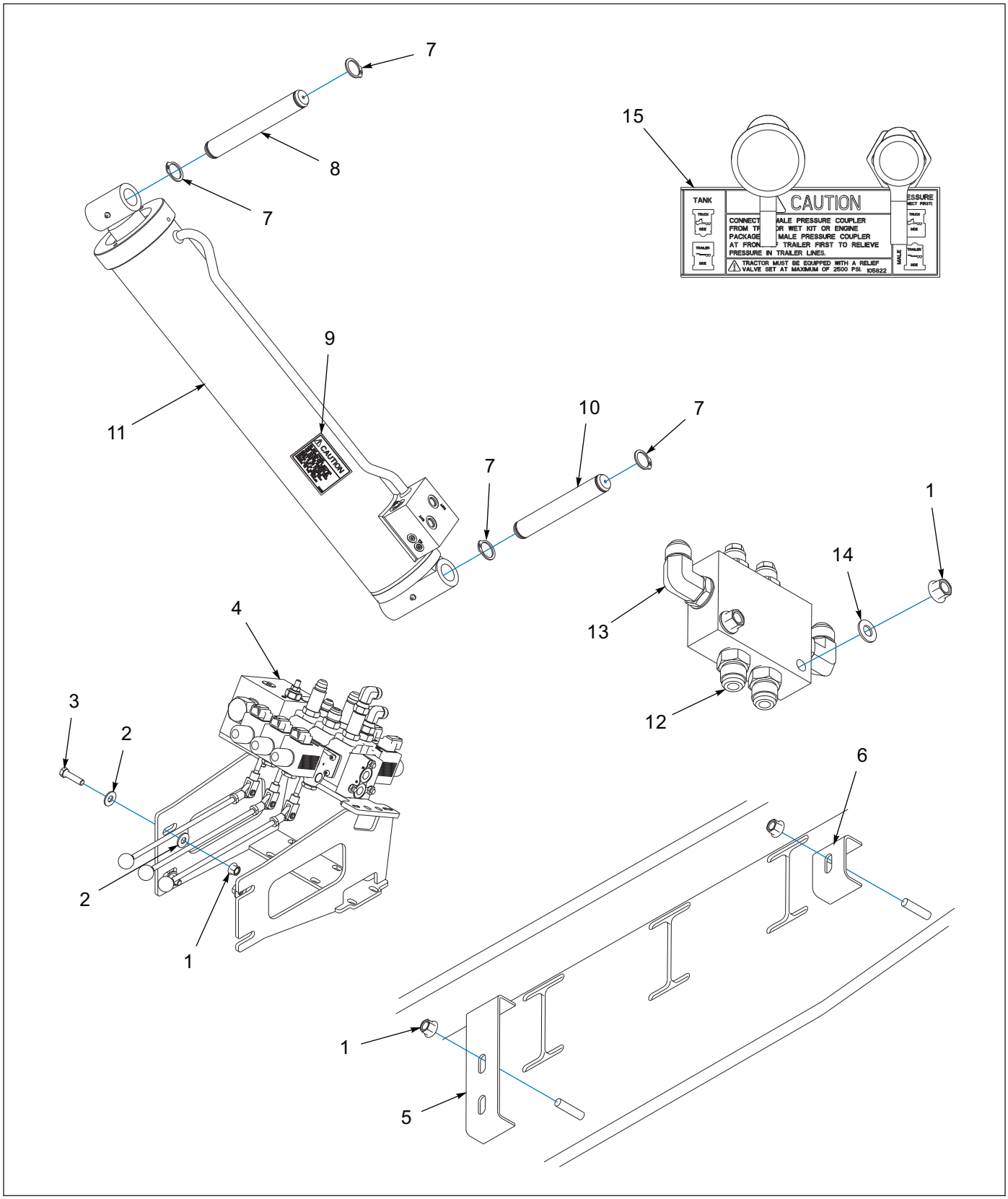

Figure 1-7: General Hydraulic Items

General Hydraulic Items

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-510-010001	NUT, 3/8-16 UNC FLANGE LOCK	16
2	1-861-010032-11	WASHER, FLAT, ZP/CD, 3/8W	6
3	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	2
4	193935	VALVE ASSY 3 SPL 35GPM EURO	REF
5	3-181-010006	HOSE CLAMP 350	8
6	2-181-010001	HOSE CLAMP	2
7	1-630-010032-01	RING, 1.5 RETAINING HD	8
8	3-557-010470-02	PIN 1-1/2X10-13/16 ZP	2
9	193455	DECAL CAUTION COUNTERBAL VALVE	2
10	3-557-010470-01	PIN 1-1/2X10 ZP	2
11	186807	CYLINDER,6"X41",30" STROKE, CB	2
12	137486	ADAPTER #10 O-RING TO #10 JIC	2
13	124511	ADAPTER 90 #10 O-RINGX#10JIC	2
14	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
15	105822	DECAL, HYD COUPLER	1

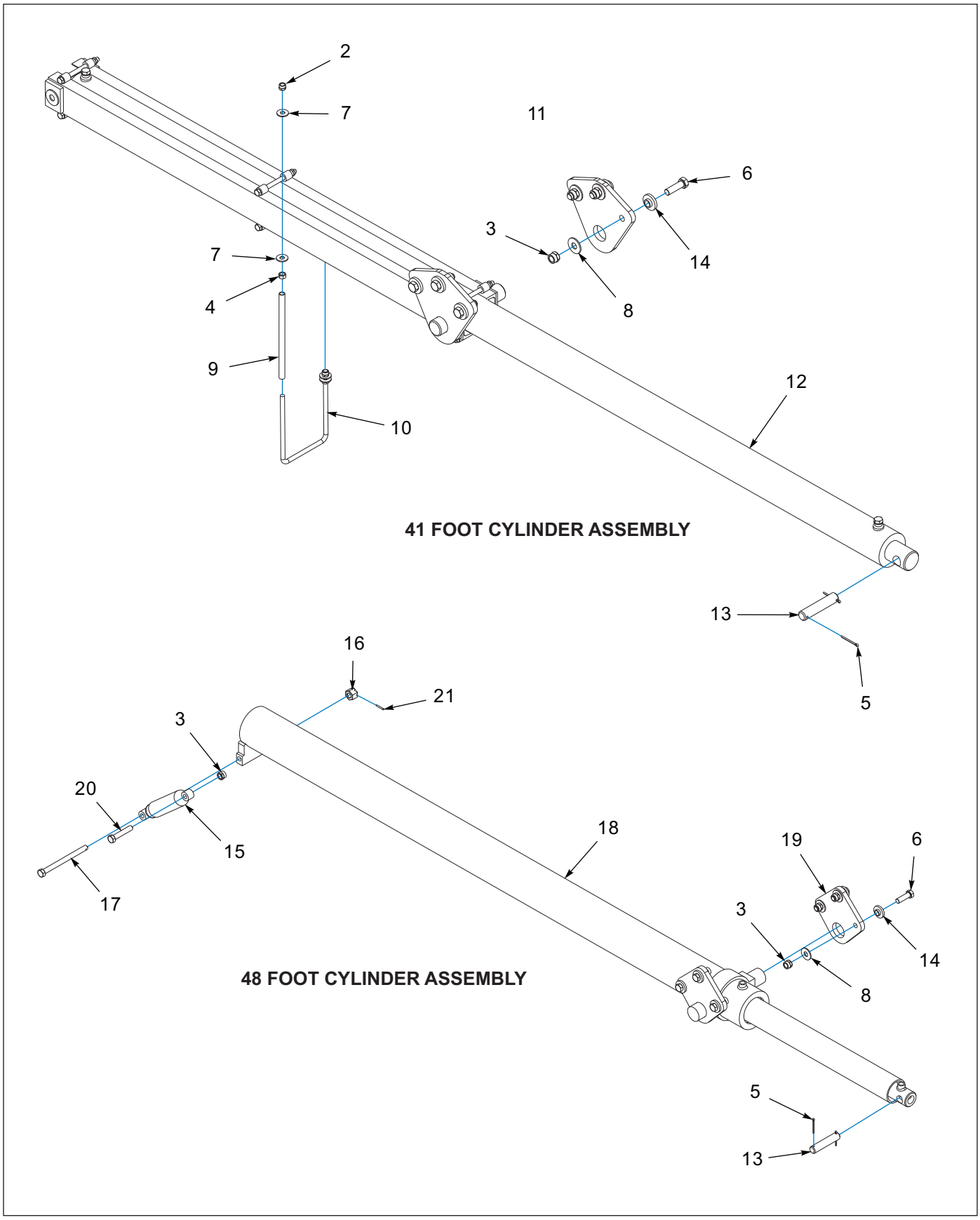

Figure 1-8: Undercarriage Cylinders

Undercarriage Cylinders

ITEM	PART NO.	DESCRIPTION	QTY.	
	-----	41 FOOT CYLINDER ASSEMBLY	*	
	-----	48 FOOT CYLINDER ASSEMBLY		*
1	1-397-010369324	HOSE ASSY,3/8X324, #8 JIC SWV **(NOT SHOWN)**	REF	REF
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2	--
3	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	6	6
4	1-512-010007-09	NUT, HEX 1/2-13 GR2 ZP	2	--
5	1-557-010362-54	PIN, COTTER 3/16X2-1/4	2	2
6	1-654-010061-07	SCREW,HX CP 3/4-10UNCX2-1/2G5	6	6
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4	--
8	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	6	6
9	2750-8	HOSE 1/2 AIR BRAKE	1	--
10	3-102-010048	U-BOLT 7-5/8X10	1	--
11	3-125-010241	BRACKET, CYL MNT 317	2	--
12	3-242-010153	CYLINDER ASSY,STD LOAD ANGLE	1	--
13	3-557-010120	PIN UNDERCARRIAGE CYL	1	1
14	3-861-010038	WASHER, STEP	6	6
15	90045040	SHOCK ABSORBER AR93	--	1
16	9-516-010002	NUT, 3/4-10 UNC-2B GRADE A	--	1
17	3-654-010111	SCREW HEX CAP MODIFIED-660	--	1
18	3-242-010212	CYLINDER WLDMT,6X4X212-600	--	1
19	3-120-010425	BRACKET,TEL CYL MOUNT	--	2
20	1-654-010061-13	SCREW,HX CP 3/4-10UNCX4 GR5	--	1
21	1-647-010004177	PIN,SPRING,SLTD 3/16X1-1/2	--	1

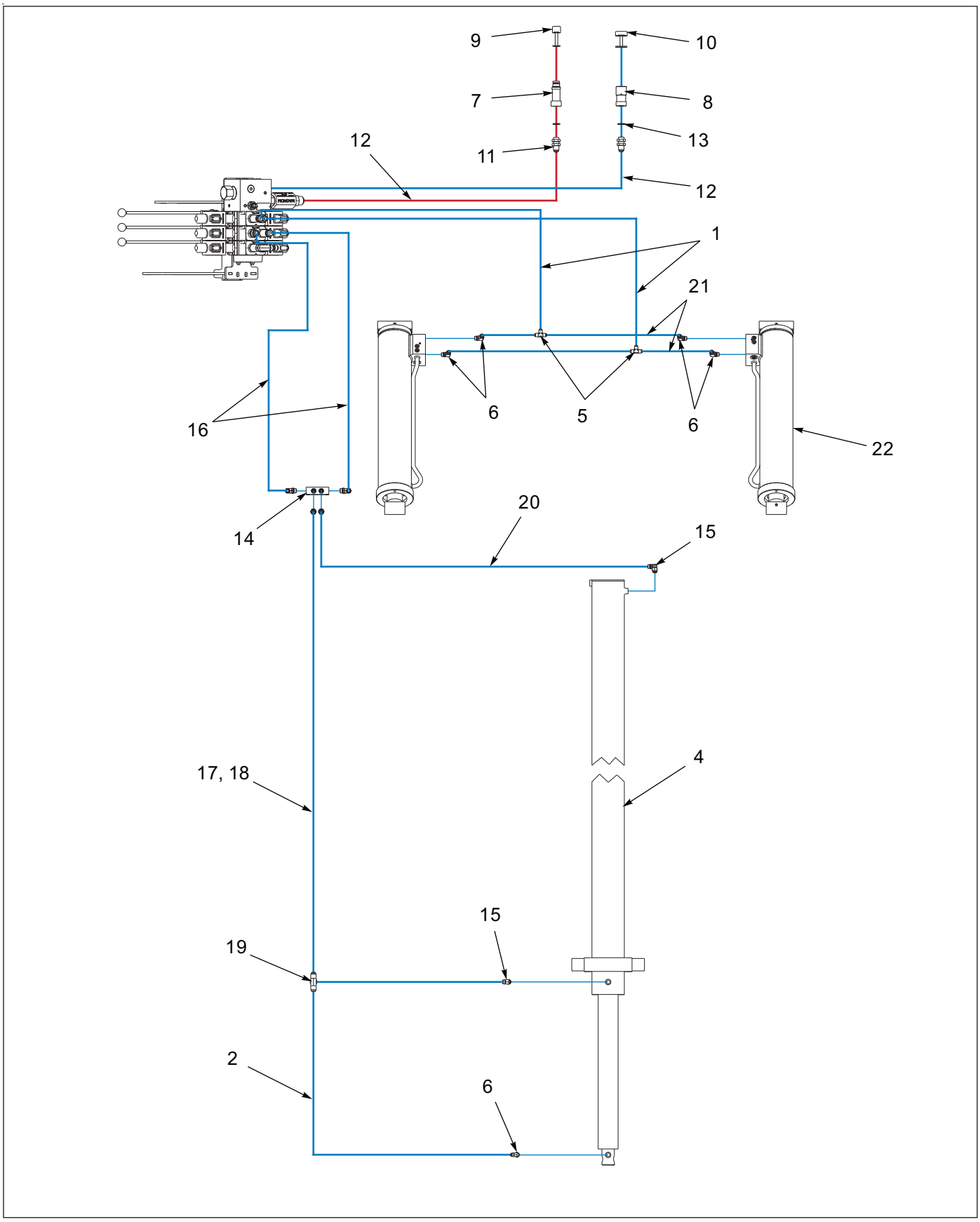

Figure 1-9: Hydraulic Schematic

Hydraulic Schematic

ITEM	PART NO.	DESCRIPTION	QTY.	
	-----	41 FOOT HYDRAULIC SCHEMATIC	*	
	-----	48 FOOT HYDRAULIC SCHEMATIC		*
1	1-397-010302070	HOSE ASSY,1/2,SAE37,STR-90R	2	2
2	1-397-010369324	HOSE ASSY,3/8X324, #8 JIC SWV	--	REF
3	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0	100	100
4	3-242-010212	CYLINDER WLDMT,6X4X212-600	REF	REF
5	2033-8-8S	ADAPTER, TEE, #8 TUBE	2	2
6	2062-8-8S	ADAPTER, 90, #8 O-RING-TUBE	2	5
7	105479	COUPLER FLAT FACE MALE NOSE	4	1
8	105480	COUPLER FLAT FACE FEMALE BODY	1	1
9	105481	COUPLER DUST CAP MALE	1	1
10	105482	COUPLER DUST CAP FEMALE	1	1
11	105483	ADAPTER BLKHD 12JIC-12 ORING	1	2
12	163352	HOSE ASSY,3/4X180,SAE37,STR90	2	2
13	169365	SPACER HYDR COUPLERS	2	2
14	184585	VALVE,DUAL COUNTER BALANCE,30G	1	1
15	189302	ADAPTER, 90, #8 O-RING-#10JIC	2	1
16	195338	HOSE ASSY, 5/8X42 SAE37#10STR	2	2
17	197593	HOSE 5/8 X 208 #10 STR JIC	1	--
18	197594	HOSE 5/8 X 208 #8-#10 STR JIC	--	1
19	203003-8-8S	ADAPTER,TEE,#8 O-RING-TUBE	--	1
20	220716	HOSE 5/8 X 274" #10 STR FJIC	1	1
21	1410119	HOSE ASSY 1/2X50 SAE37 STR	4	4
22	186807	CYLINDER,6"X41",30" STROKE, CB	2	2

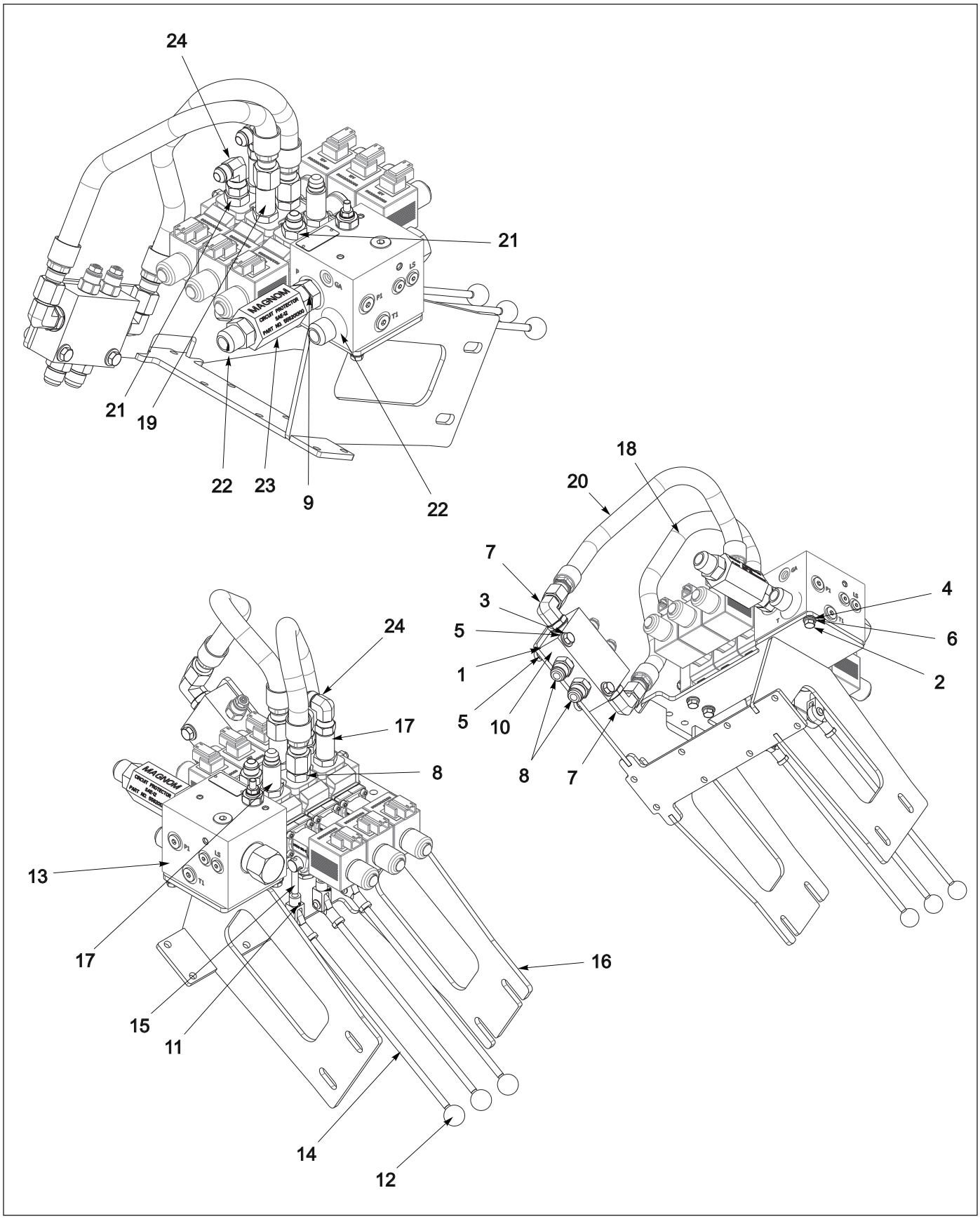
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Figure 1-10:

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
25	216601	SEAL KIT **(NOT SHOWN)**	REF

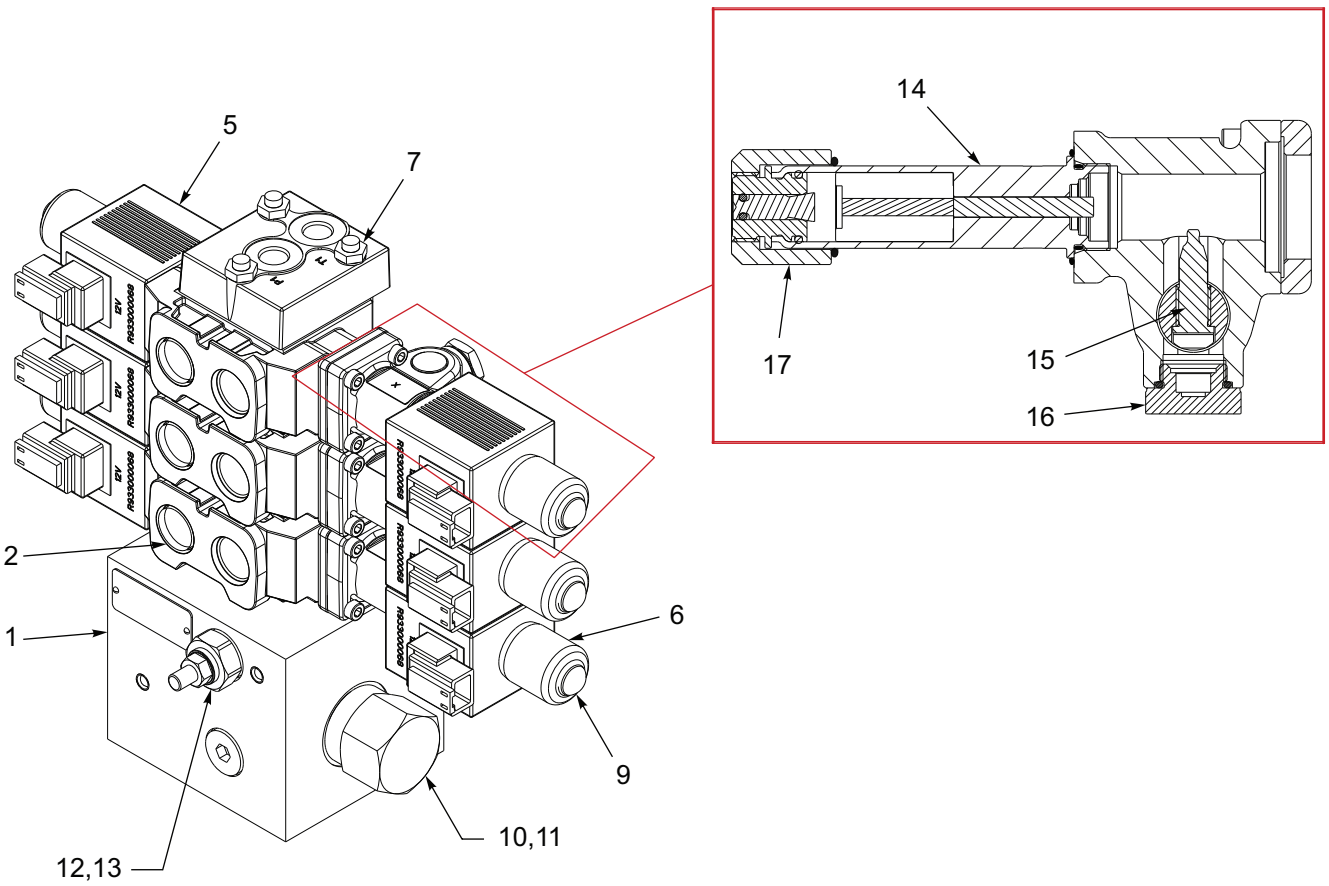


Figure 1-11:

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

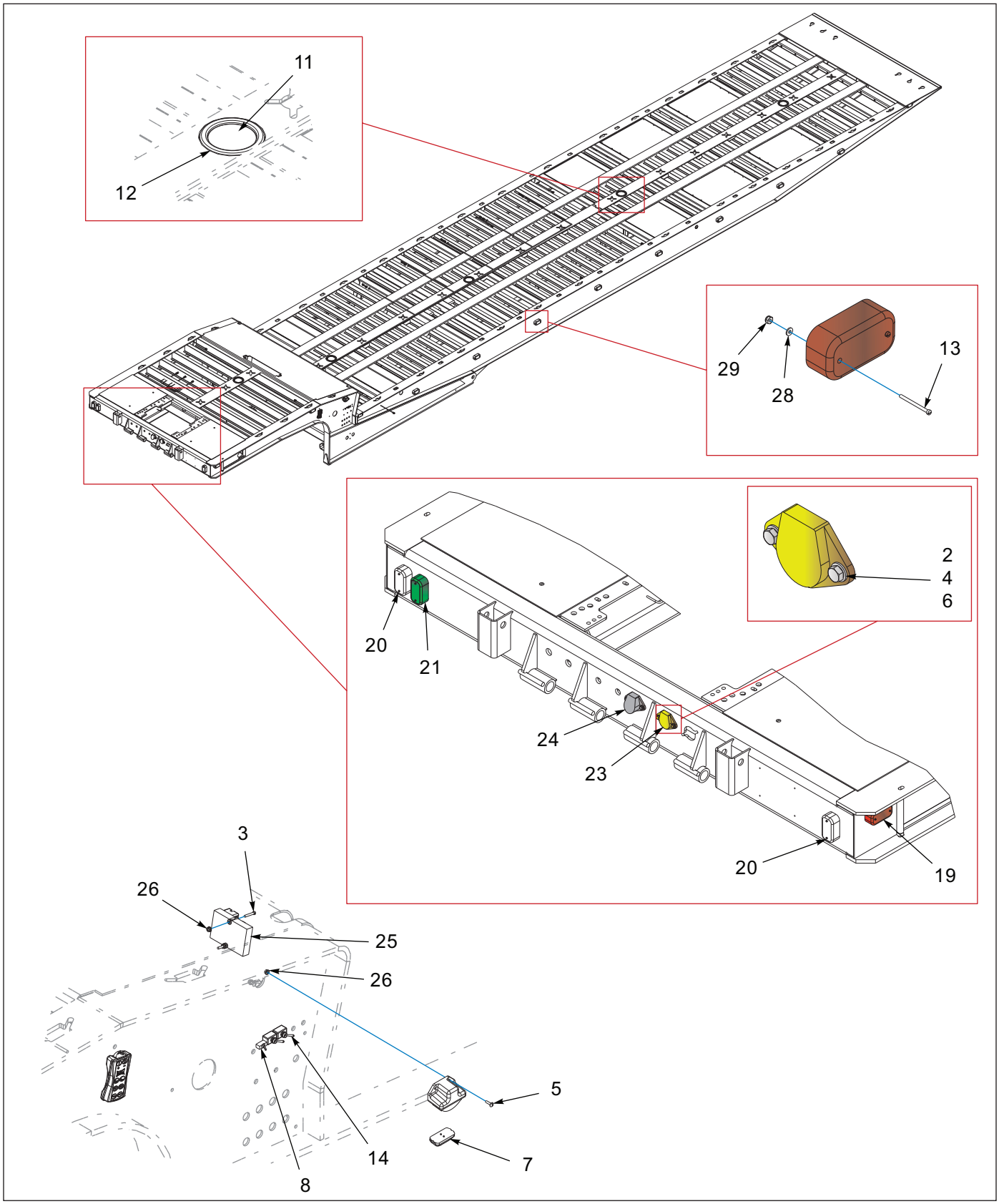
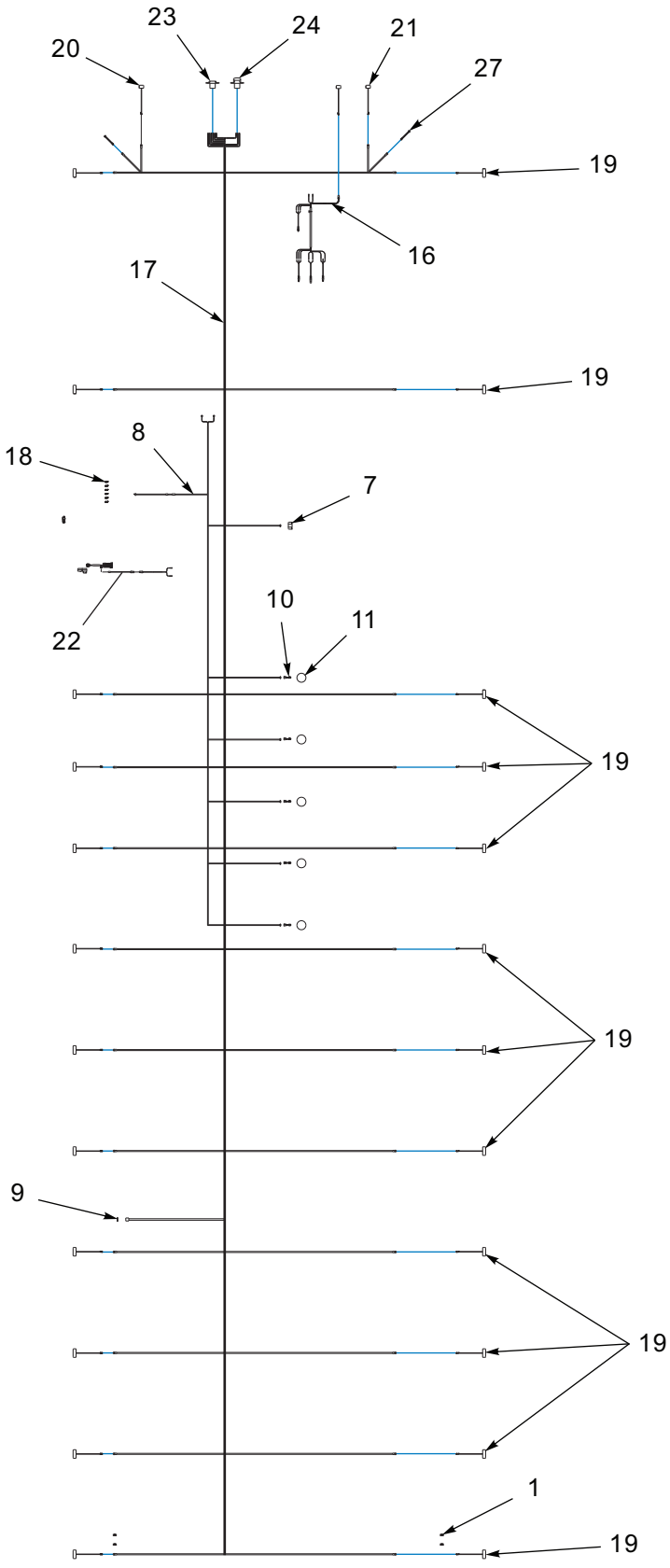


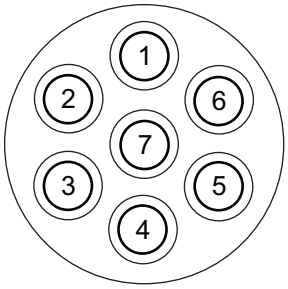
Figure 1-12: Electrical Arrangement (1 of 2)



SILVER PLUG

24V "N" SOCKET (P/N 117308)
(LEFT PLUG LOOKING AT FRONT OF TRAILER)

PIN#	FUNCTION	118818 BED HARNESS	118829 BUMPER HARNESS RIGHT BRANCH	118829 BUMPER HARNESS LEFT BRANCH
1	GROUND	WHITE	WHITE	WHITE
2	LEFT MARKER	BLACK	-	GREEN
3	LEFT TURN	YELLOW	-	BLACK
4	STOP & EBS BACKUP	RED	RED	RED
5	RIGHT TURN	GREEN	GREEN	-
6	RIGHT MARKER	BROWN	BLACK	-
7	NOT USED	-	-	-



YELLOW PLUG

24V "S" SOCKET (P/N 118852)
(RIGHT PLUG LOOKING AT THE FRONT OF TRAILER)

PIN#	FUNCTION	118818 BED HARNESS	118829 BUMPER HARNESS RIGHT BRANCH	118829 BUMPER HARNESS LEFT BRANCH
1	GROUND	WHITE	WHITE	WHITE
2	NOT USED	-	-	-
3	REVERSE LIGHT	ORANGE	YELLOW	YELLOW
4	AUXILIARY LIGHTS	-	-	-
5	NOT USED	-	-	-
6	NOT USED	-	-	-
7	FOG	BLUE	BROWN	BROWN

Figure 1-13: Electrical Arrangement (2 of 2)

Electrical Arrangement

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-343-010006	GROMMET	4
2	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	4
3	1-654-010024055	SCREW,MACH,FLSTR,#10-24X1-1/4	REF
4	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	4
5	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	2
6	1-861-010032-08	WASHER,FLAT 5/16 N ZP	8
7	116912	LIGHT CLEAR 24V LICENSE& BRKT	1
8	118819	HARNESS LANDING LIGHTS410 ASSY	1
9	120468	PANEL NUT DEUTSCH HDP 20	1
10	127258	CAP FRONT RH STEEL BED	5
11	144612	LIGHT CLEAR LED 24V BACKUP	5
12	144680	GROMMET 4IN ROUND GROTE	5
13	146700	SCREW,MACH,FLSTR,6-32X1-3/4	54
14	150117	SWITCH ASSY LIGHT GROTE	REF
15	164052	HARNESS,60"BRANCH,WORK LIGHT	1
16	187810	HARNESS ASSY EBS (EURO)	1
17	193980	HARNESS BED 455A-EURO	1
18	194407	PLUG ASSY DUMMY DEUTSCH 2 PIN	REF
19	195358	ASSY,LIGHT,MARKER,AMBER,24V	24
20	195359	ASSY,LIGHT,MARKER,CLEAR,24V	2
21	195690	DISC BLADE, 24X5/16 NOTCHED	1
22	195366	HARNESS MOD, REMOTE, EURO	REF
23	197608	SOCKET ISO3731 WIRE INSERT	1
24	198609	TANK HYD CYL ANCHOR CL 20K WLD	1
25	209100	REMOTE KIT BRAND 6 FUNC SLIDE	REF
26	212074	NUT 10-24 FLANGE HD SERRATED	6
27	218042	LIGHT MARKER WHT ECE DUETSCH	2
28	25E6E	WASHER, FLAT #6	54
29	50D6E	NUT,LOCKING 6-32 NYLON INSERT	52

Table provided for general use.

NOTES:

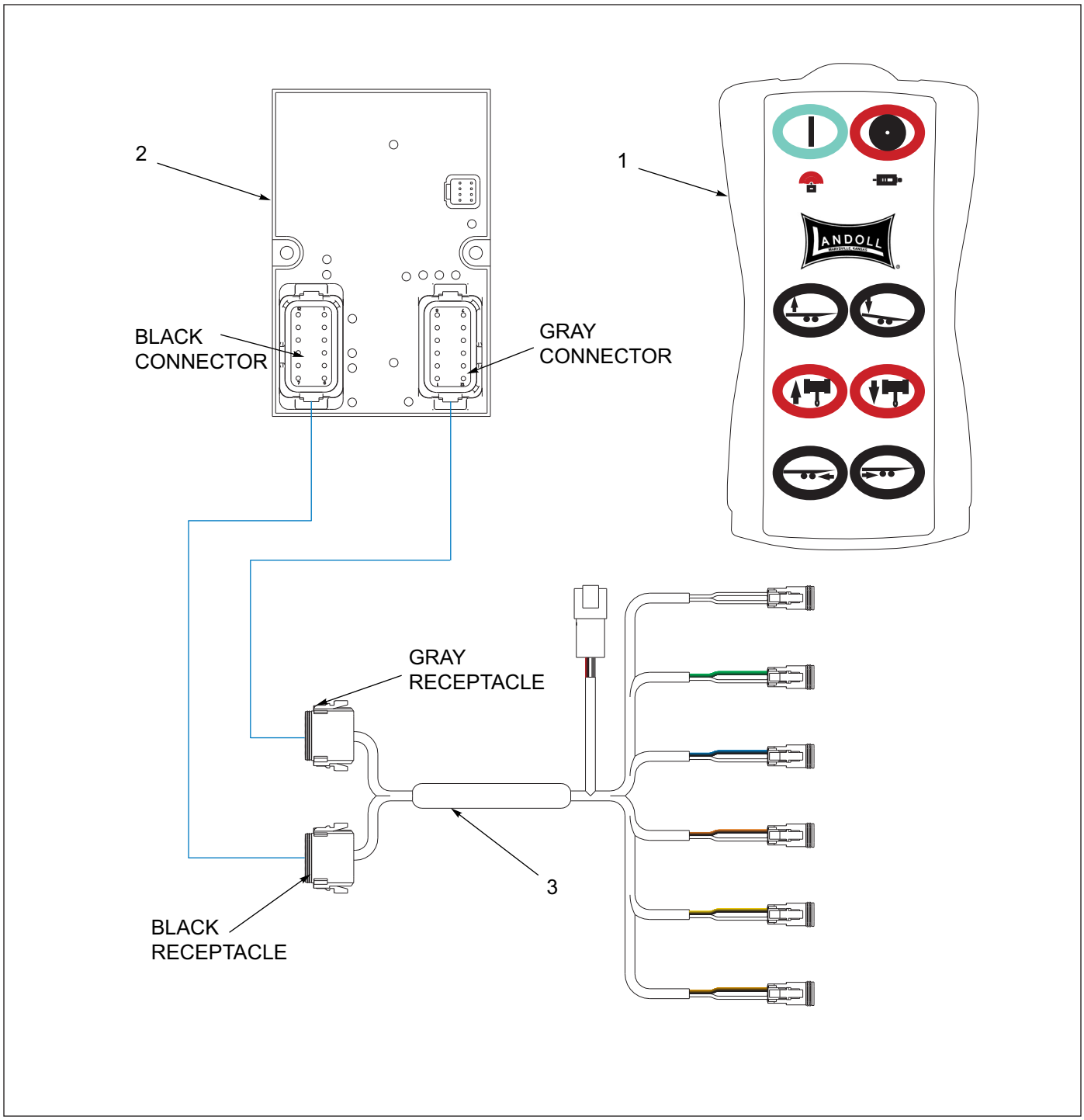


Figure 1-14:

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

Table provided for general use.

NOTES:

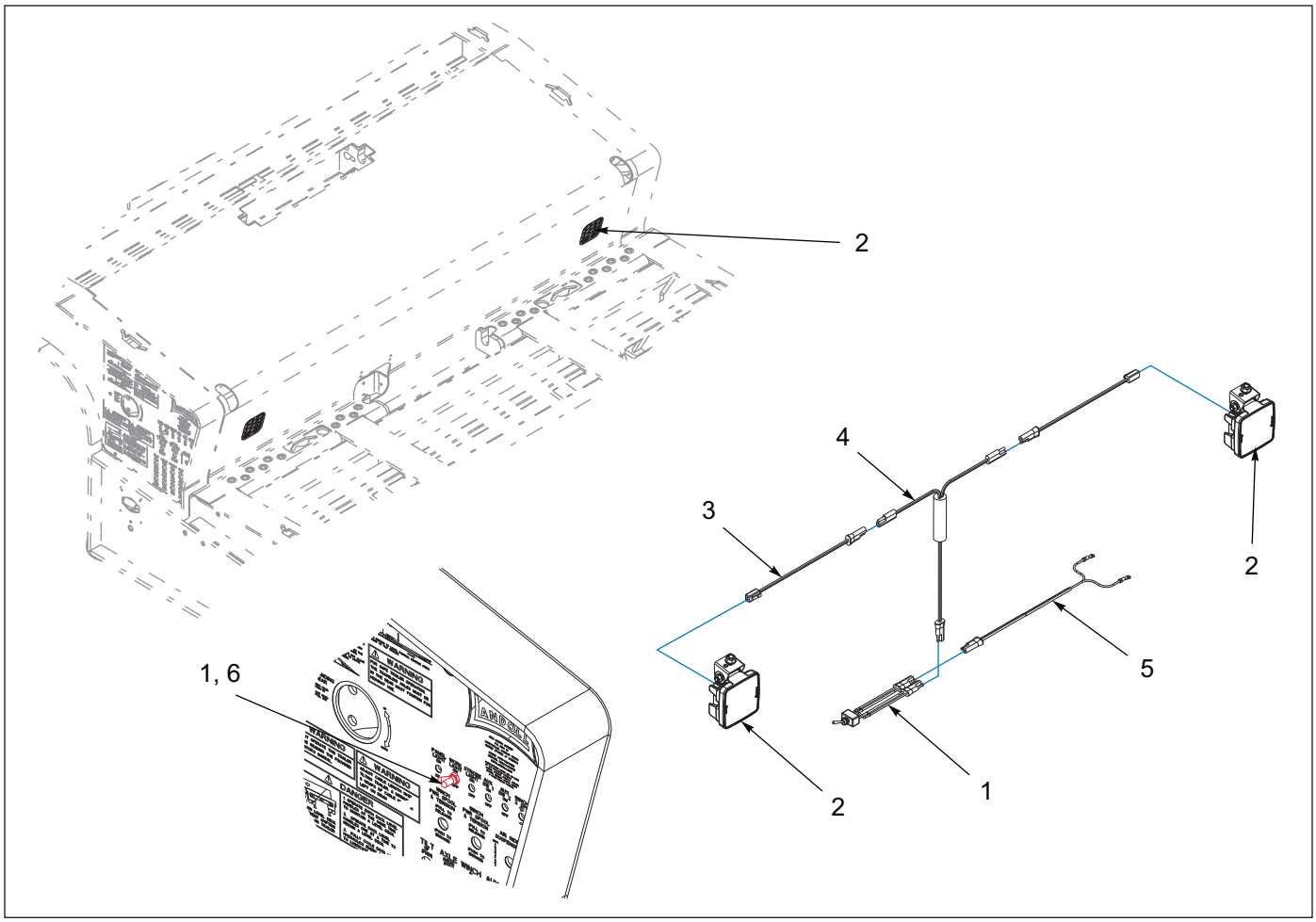


Figure 1-15:

Slope Lights - Option

ITEM	PART NO.	DESCRIPTION	QTY.
1	150117	SWITCH ASSY LIGHT GROTE	1
2	163996	LIGHT,12V SQUARE LED FLOOD	2
3	164052	HARNESS,60"BRANCH,WORK LIGHT	2
4	169853	HARNESS T PWR BRANCH	1
5	195366	HARNESS MOD, REMOTE, EURO	1
6	81264	RUBBER BOOT FOR ELECT SWITCH	1

Table provided for general use.

NOTES:

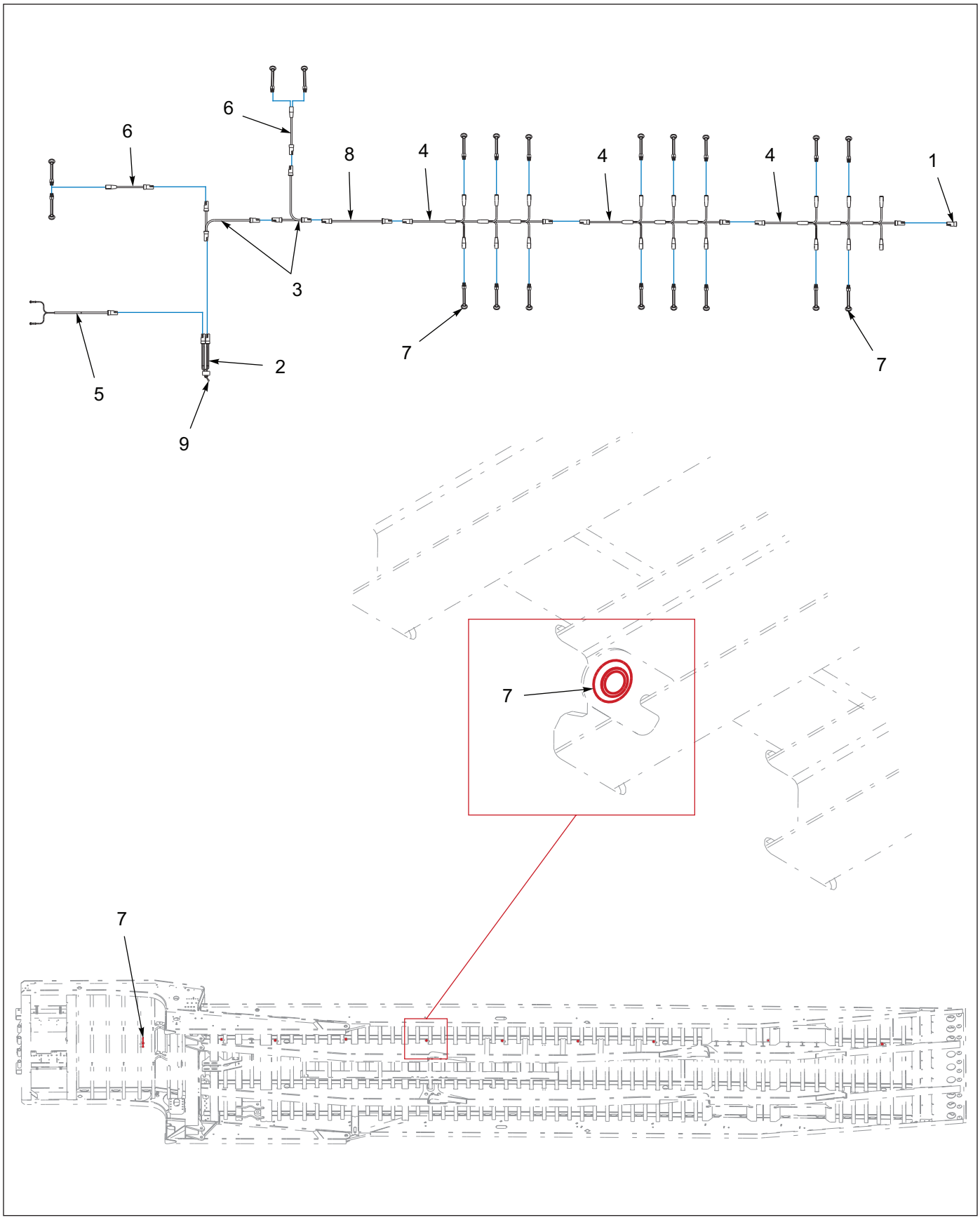


Figure 1-16: Under Deck Lights - Option

Under Deck Lights - Option

ITEM	PART NO.	DESCRIPTION	QTY.
1	143121	DUMMY PLUG MALE/FEM BULLET	1
2	150117	SWITCH ASSY LIGHT GROTE	1
3	150118	HARNESS JUMPER BRANCH	2
4	187856	HARNESS MARKER MID DECK	2
5	195366	HARNESS MOD, REMOTE, EURO	1
6	213288	HARNESS 12" JUMPER ADAPTER	2
7	218041	LIGHT MARKER LED 3/4" WHT ECE	18
8	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	1
9	81264	RUBBER BOOT FOR ELECT SWITCH	1

Suspension & Undercarriage

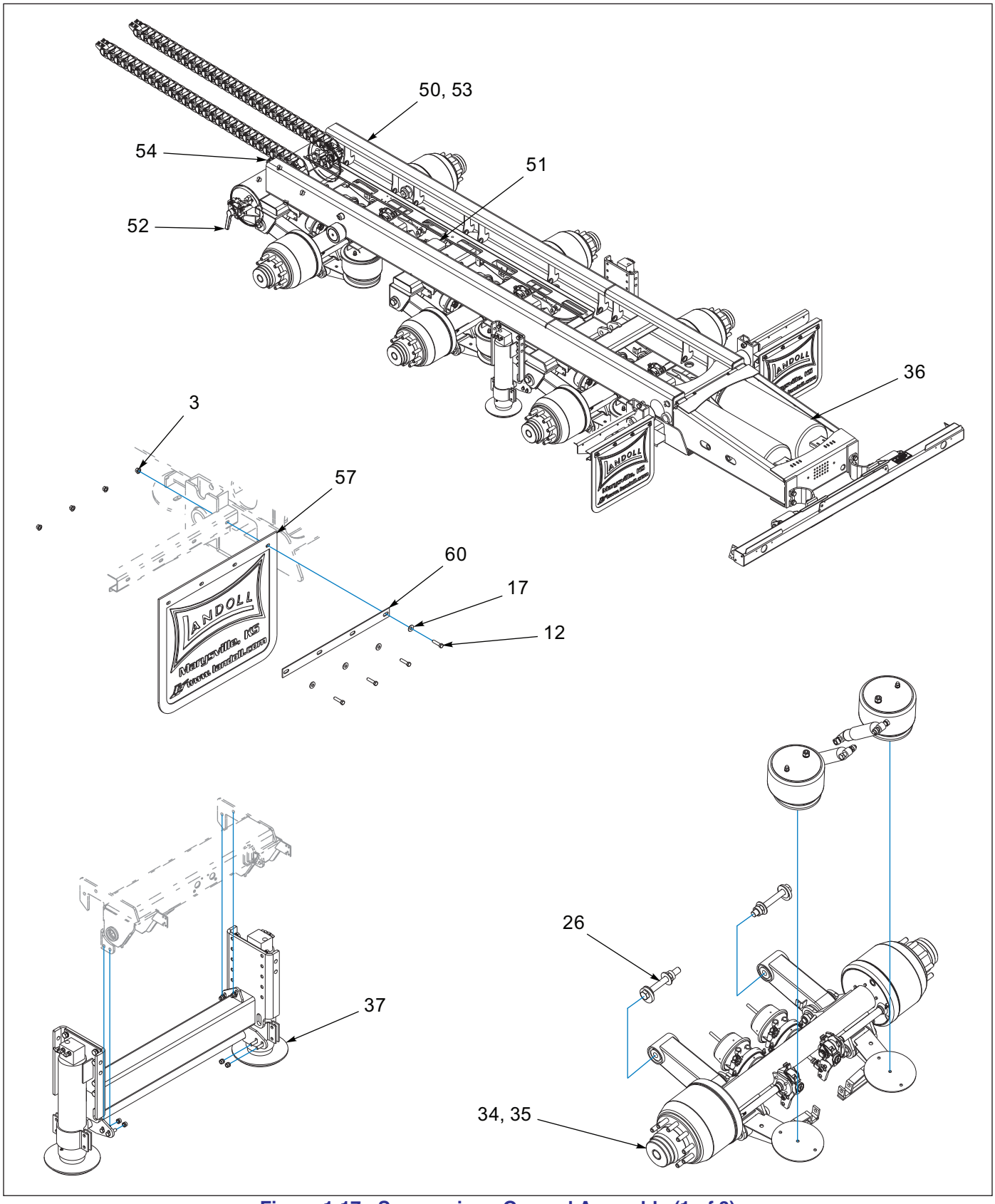


Figure 1-17: Suspension - General Assembly (1 of 3)

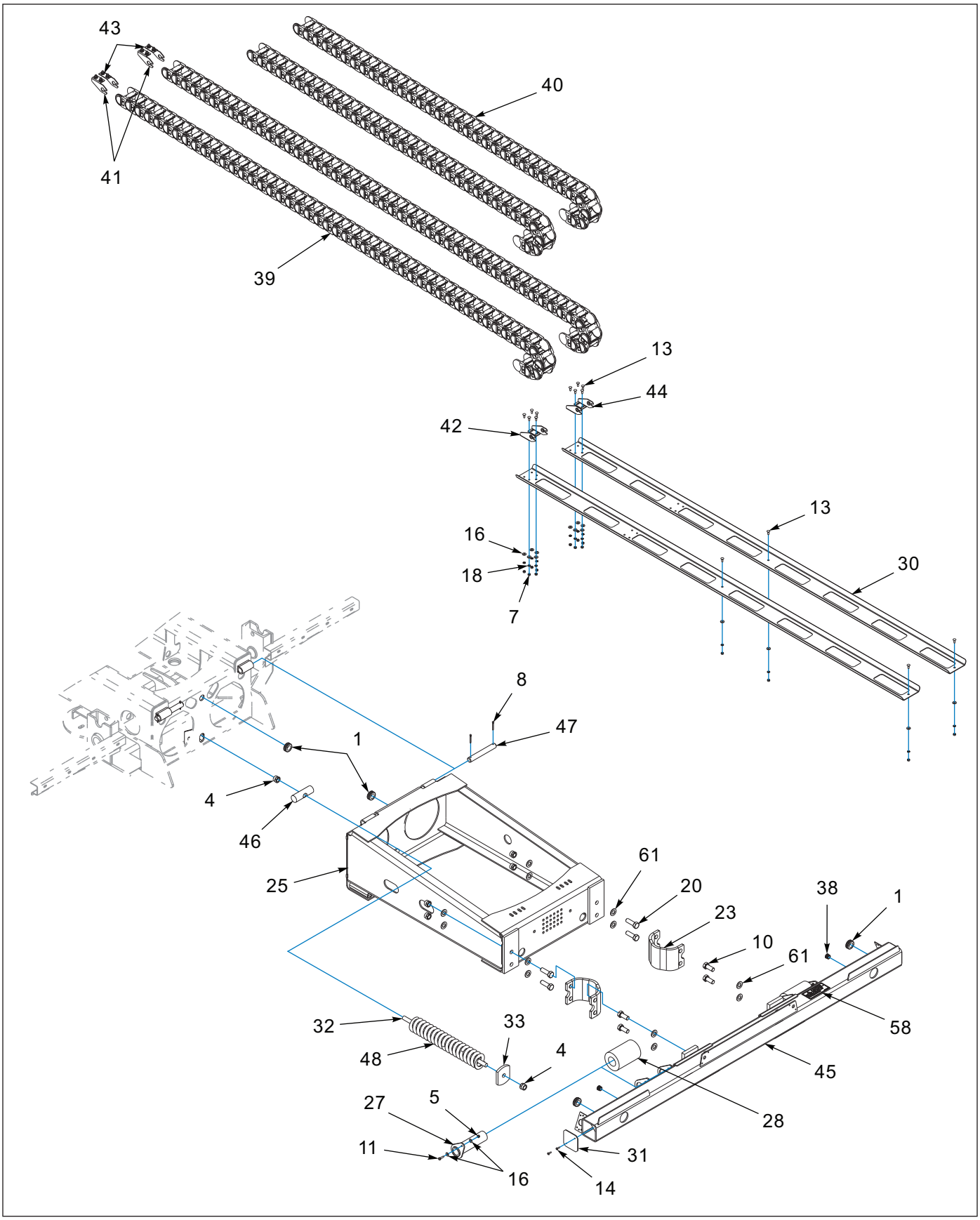


Figure 1-18: Suspension - General Assembly (2 of 3)

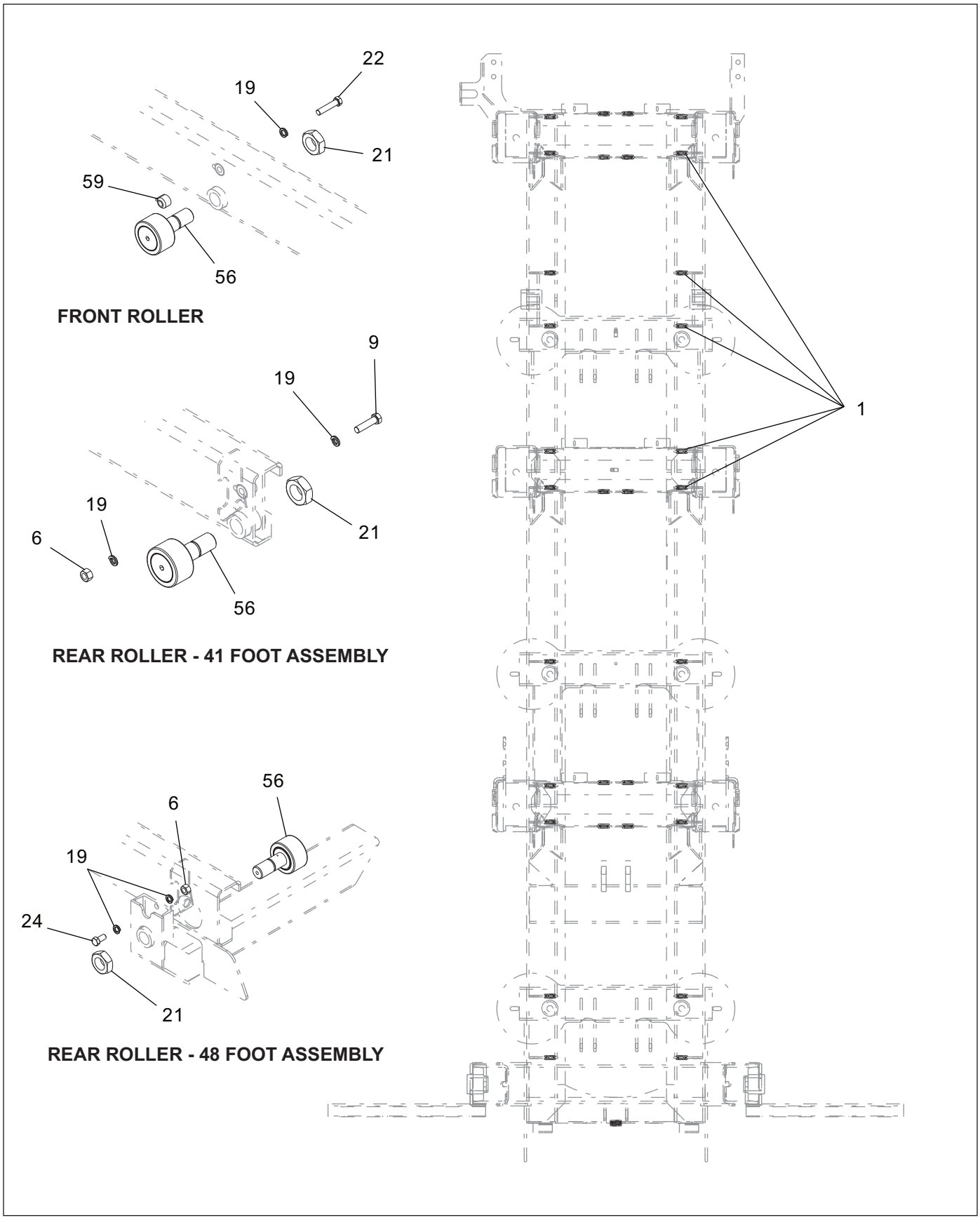


Figure 1-19: Suspension - General Assembly (3 of 3)

Suspension - General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	(ALL PARTS ASSUME DOCK LEGS INSTALLED)	--
1	1-343-010007	GROMMET	36
2	1-397-010369324	HOSE ASSY,3/8X324, #8 JIC SWV	REF
3	1-510-010001	NUT, 3/8-16 UNC FLANGE LOCK	8
4	1-512-010002-15	NUT,HEX SLFLKG 3/4-10 GRC	6
5	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
6	1-512-010006-08	NUT,HEAVY HEX, 3/4-10 GR5	2
7	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	22
8	1-557-010362-51	PIN, COTTER 3/16X1-1/2	4
9	1-654-010032-09	SCREW HEX CAP 3/4-10X3 GR8	2
10	1-654-010032-4	SCREW 3/4-10X1-3/4 HX CP ZPG8	4
11	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
12	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	8
13	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	22
14	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
15	1-843-010014	VALVE EXTENSION,STEM	6
16	1-861-010032-07	WASHER,FLAT 1/4 ZP	26
17	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	8
18	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	22
19	1-861-010034-17	WASHER,LKG,HLCL SPR,3/4	6
20	100941	SCREW,HEXCAP,3/4-10X2-1/4G8ZP	4
21	104034	NUT, HEX 2-12UN, GRB, ZP	4
22	105408	SCREW HXCP,3/4-10X3-1/2 GR8	2
23	107594	MOUNT BUMPER ENERGY PAK	2
24	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	REF
25	116989	BUMPER ARM WLDMT	1
26	117345	SUSPENSION FASTNRS RLU250-3.5	3
27	118910	PIN, BUMPER ROLLER - 410	2
28	118911	BUMPER ROLLER, NYLATRON - 410	2
29	118914	HOSE WRAP SPIRAL 1 ID	10
30	118943	TRAY E-CHAIN 410	2
31	118946	END CAP BUMPER 410	2
32	118969	ROD THREADED 3/4-10X23	1
33	118976	PLATE SPG TENSION PLATED	1
34	127235	AXLE WLDMT SAF 410FRONT	1
35	127237	AXLE WLDMT SAF 410 REAR	2
36	130176	AIR TANK END MT 60L 6XM22	3
37	130851	DOCK LEVEL ASSY 410 EURO 60K	1
38	189280	PLUG, PLASTIC PANEL 3/4	2
39	189314	SUPPORT, E-CHAIN,48 LINKS,3838	REF
40	189316	SUPPORT, E-CHAIN,34 LINKS,3838	2
41	190700	BRACKET E-CHAIN LH	2
42	190701	BRACKET WLDMT E-CHAIN LH	2
43	190705	BRACKET E-CHAIN RH	2
44	190706	BRACKET WLDMT E-CHAIN RH	2
45	195352	BUMPER,WLDMT,455A-EURO	1
46	2-557-010045	PIN SPRING CLAMP	1
47	2-557-010097	PIN HINGE	2
48	2-720-010008	SPRING-SPRING CLAMP	1

Suspension - General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
49	220707	EBS MODULATOR KIT 4S/2M GEN3	1
50	220731	U/C WLDMT 455-48 EURO	REF
51	223909	EBS MODULE EB + GEN3	1
52	223917	VALVE RAISE/LOWER COLAS	1
53	223920	U/C WLDMT 455-41 EURO	1
54	223930	BRAKE PROTECTION VALVE M22 POR	1
55	-----	LOCKTITE 242 BLUE REMOVABLE **(NOT SHOWN)**	REF
56	3-076-010015	5IN DIA CAM FOLLOWER	4
57	3-485-010001	FLAP, MUD 21 IN	2
58	3-573-010031	DECAL TRAILER BUMPER	1
59	3-762-010016	HOLD DOWN UNDERCARRIAGE WLDMT	2
60	3-762-010017	CLAMP MUD FLAP	2
61	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	12

Table provided for general use.

NOTES:

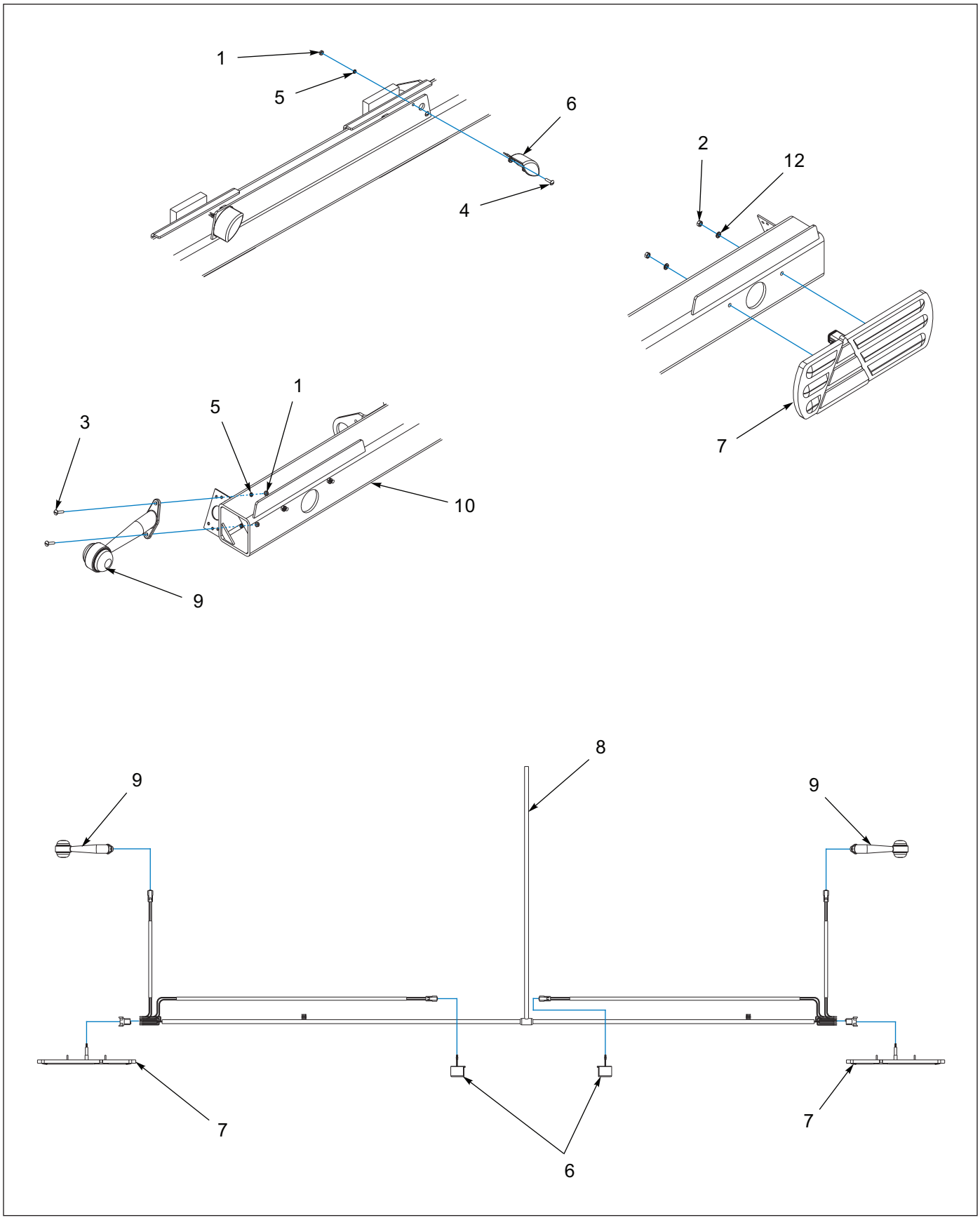


Figure 1-20: Suspension - Bumper

Suspension - Bumper

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010007-03	NUT, HEX 10-24 GR2 ZP	8
2	1-513-010002-05	NUT,METRIC HEX M6X1.0 **(COMPONENT OF 195349)**	4
3	1-654-010100028	SCREW MACH TRUSS HD 10-24X1	4
4	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
5	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	8
6	195347	ASSY,LIGHT,ECE LICENSE,24V	2
7	195349	ASSY,LIGHT,ECE REAR CLUSTERS	1
8	195350	HARNESS,U/C,EURO ASSY	1
9	195351	ASSY,LIGHT,STALK,BRITAX	2
10	195352	BUMPER,WLDMT,455A-EURO	1
11	43028	HOSE WRAP AEROQUIP 3/8 **(NOT SHOWN)**	5
12	6EM60ER	WASHER LOCK SPRING M6 ZP **(COMPONENT OF 195349)**	4

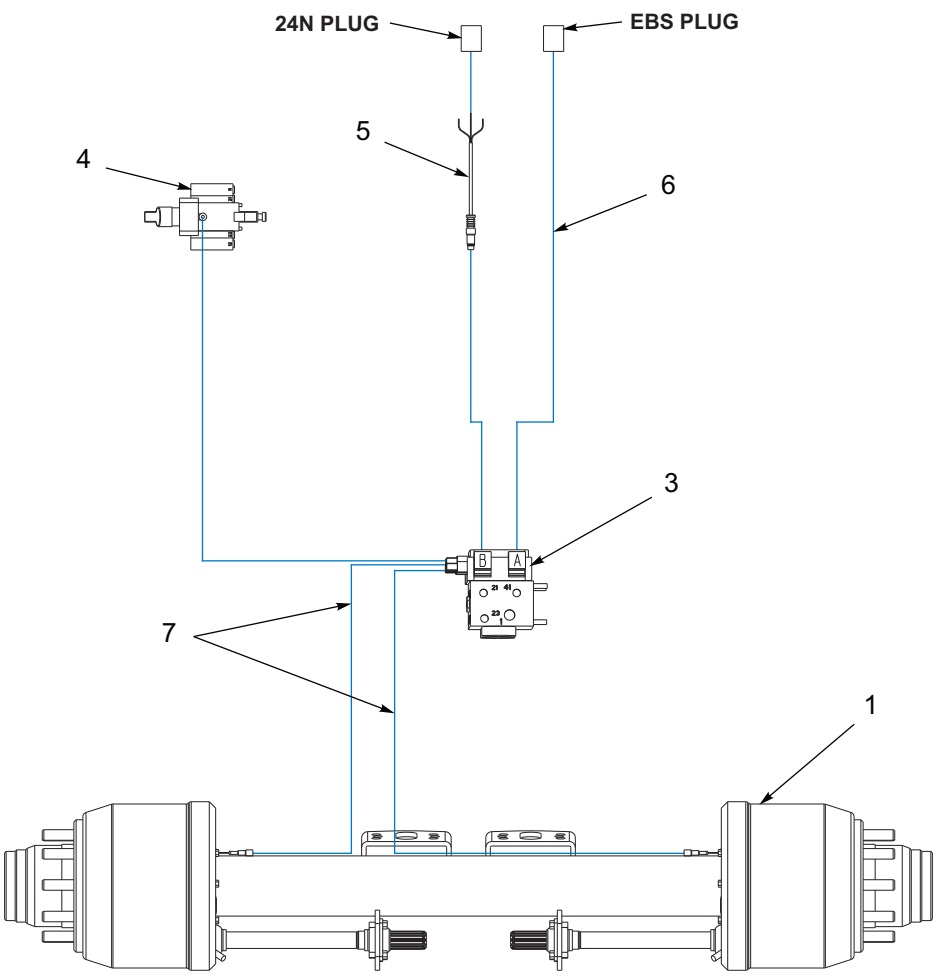


Figure 1-21: Suspension - EBS Controller

Suspension - EBS Controller

ITEM	PART NO.	DESCRIPTION	QTY.
1	127237	AXLE WLDMT SAF 410 REAR	REF
2	220707	EBS MODULATOR KIT 4S/2M GEN3	1
3	223909	EBS MODULE EB + GEN3	1
4	223917	VALVE RAISE/LOWER COLAS	1
5	223918	CABLE EBS GEN3 19M AUX/COLAS	1
6	223926	CABLE ISO POWER EBS 16M	1
7	-----	SENSOR EXTENSION **(NOT SOLD SEPARATELY)**	REF

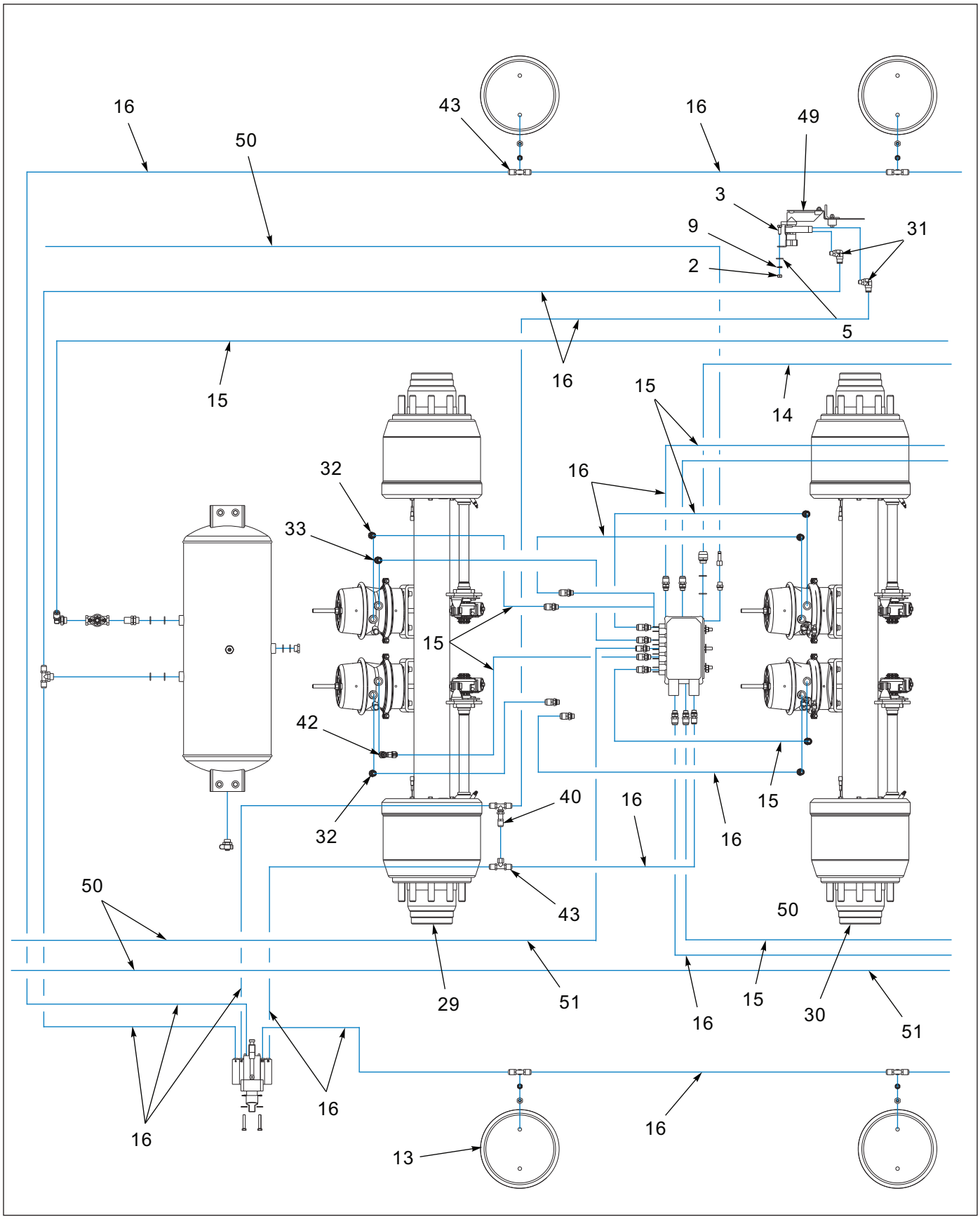


Figure 1-22: Suspension & Brake Schematic (1 of 3)

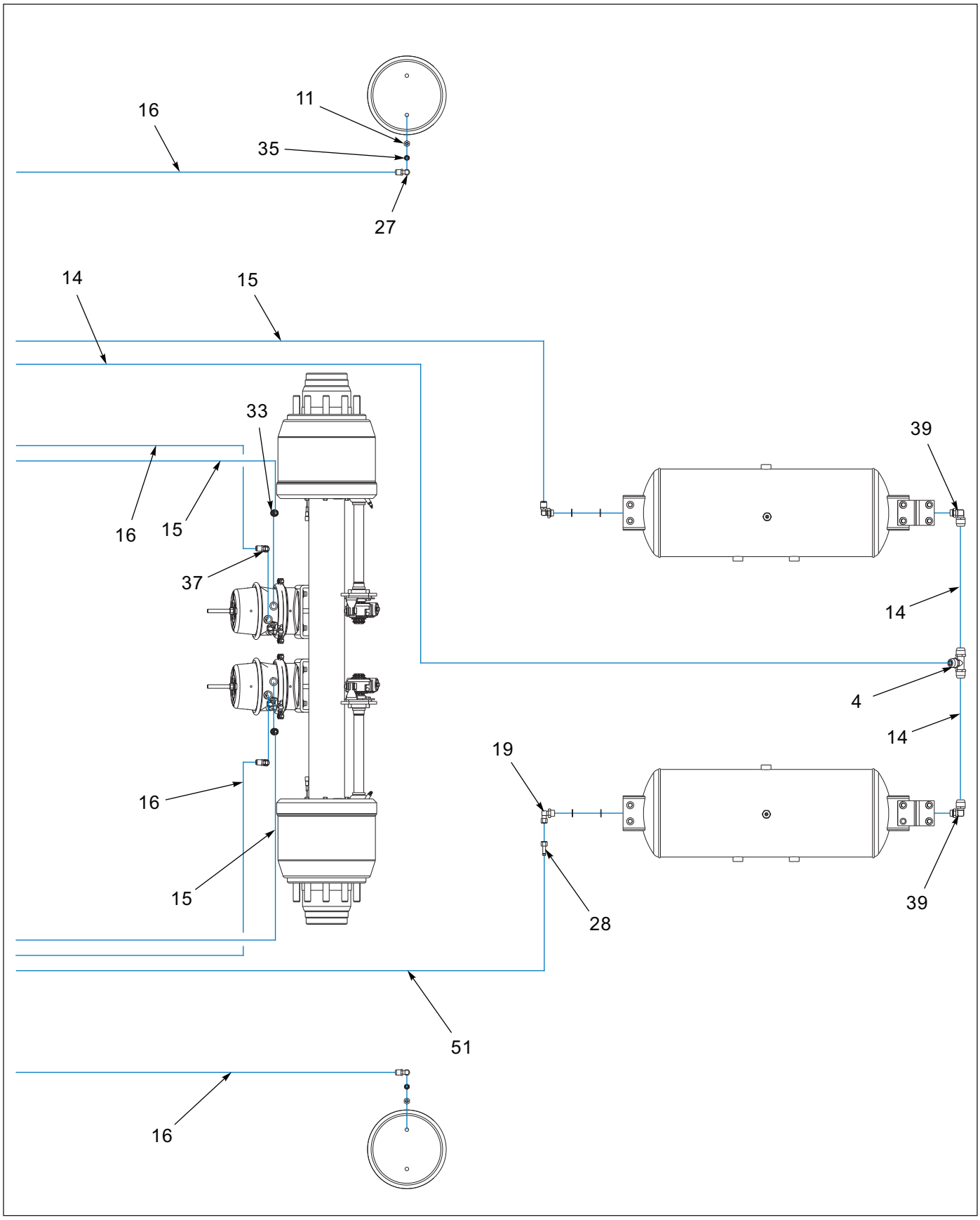


Figure 1-23: Suspension & Brake Schematic (2 of 3)

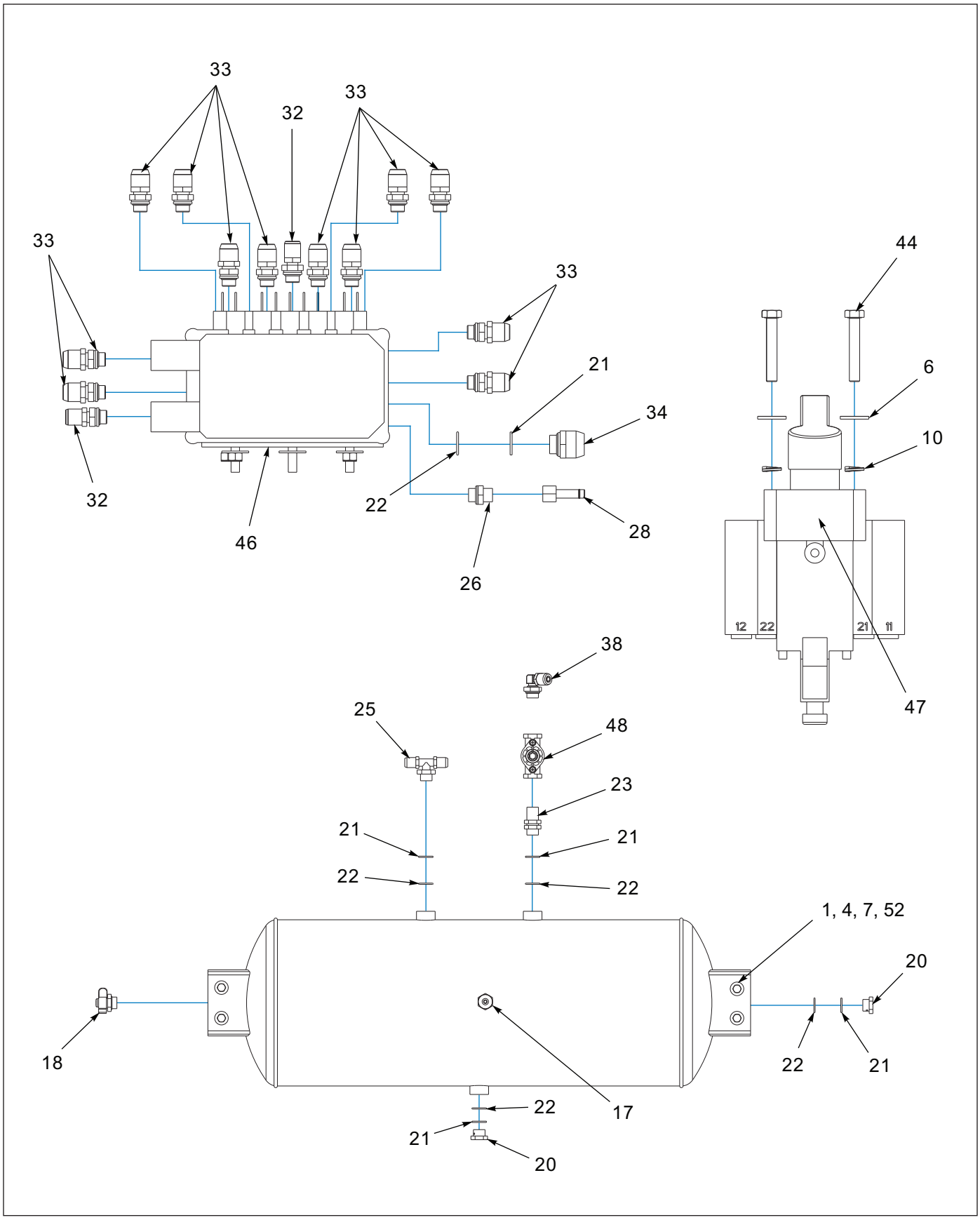


Figure 1-24: Suspension & Brake Schematic (3 of 3)

Suspension & Brake Schematic

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	16
2	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	2
3	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5	2
4	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G5	16
5	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
6	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	4
7	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	32
8	1-861-010032-13	WASHER FLAT 7/16	3
9	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	2
10	1-861-010034-10	WASHER,LKG 5/16	4
11	116801	ADAPT 1/4NPTF TO 1/4 BST	6
12	116997	BRACKET AIR TANK 410 REAR	2
13	117345	SUSPENSION FASTNRS RLU250-3.5	REF
14	118811	TUBING NYLON 18MMX2 DIN 74324	REF
15	118812	TUBING NYLON 12MMX1.5DIN74324	REF
16	118813	TUBING NYLON 10MM X 1.00 DIN	REF
17	124746	DRAIN TAP M22 7628T	3
18	124753	MALE TEST POINT M22 7836T	2
19	124763	M STUD EL M22-10MM 7784T	1
20	124767	BLANKING PLUG M22 7623T	7
21	124787	THRUST RING M22 8930300404	15
22	124790	O-RING M22 8977804004	15
23	125596	ST BLKHD ADAPT M22-M22 7742T	1
24	125903	LOCKNUT M10-1.5 CLASS 10 ZP	3
25	125910	BRANCH STD TEE M22TO10MM 7221	1
26	125911	THREAD ADAPTOR M16TOM16 7868T	1
27	125912	STEM ELBOW ADAPTOR 10MM 7343	2
28	125916	SWIVEL HOSETAILM16-10MM 7858G	2
29	127235	AXLE WLDMT SAF 410FRONT	REF
30	127237	AXLE WLDMT SAF 410 REAR	REF
31	130003	ELBOW STUD 1/8 NPT TO 10MM	2
32	130169	STRAIGHT STUD M16 TO 10MM	6
33	130171	STRAIGHT STUD M16 TO 12MM	17
34	130173	STRAIGHT STUD M22 TO 18MM	1
35	130174	THREAD ADAPTER 1/4PIPE TO M16	6
36	130176	AIR TANK END MT 60L 6XM22	3
37	130184	ELBOW STUD M16 TO 10MM 7170	2
38	130187	ELBOW STUD M22 TO 12MM 7176	2
39	130188	ELBOW STUD M22 TO 18MM 7180	2
40	130196	TEE BLKHD M16 TO 10MM 7268	1
41	130209	TEE CONNECTOR 18MM 7283	1
42	130211	SIDE TEE TEST PT M16-12MM	1
43	130311	BRANCH STEM TEE 10MM 7368	5
44	133747	SCREW M8-1.25X50 HCS 8.8 ZP	4
45	220707	EBS MODULATOR KIT 4S/2M GEN3	1
46	223909	EBS MODULE EB + GEN3	REF
47	223917	VALVE RAISE/LOWER COLAS	1
48	223930	BRAKE PROTECTION VALVE M22 POR	1

Suspension & Brake Schematic

ITEM	PART NO.	DESCRIPTION	QTY.
49	3-843-010034	VALVE,AIR RIDE HEIGHT CONTROL	1
50	-----	3/8” AIR HOSE	REF
51	6812	IDEAL HOSE CLMP1.25MAX-.5MIN	3
52	805-2	BUSHINGS, STEP	32

Table provided for general use.

NOTES:

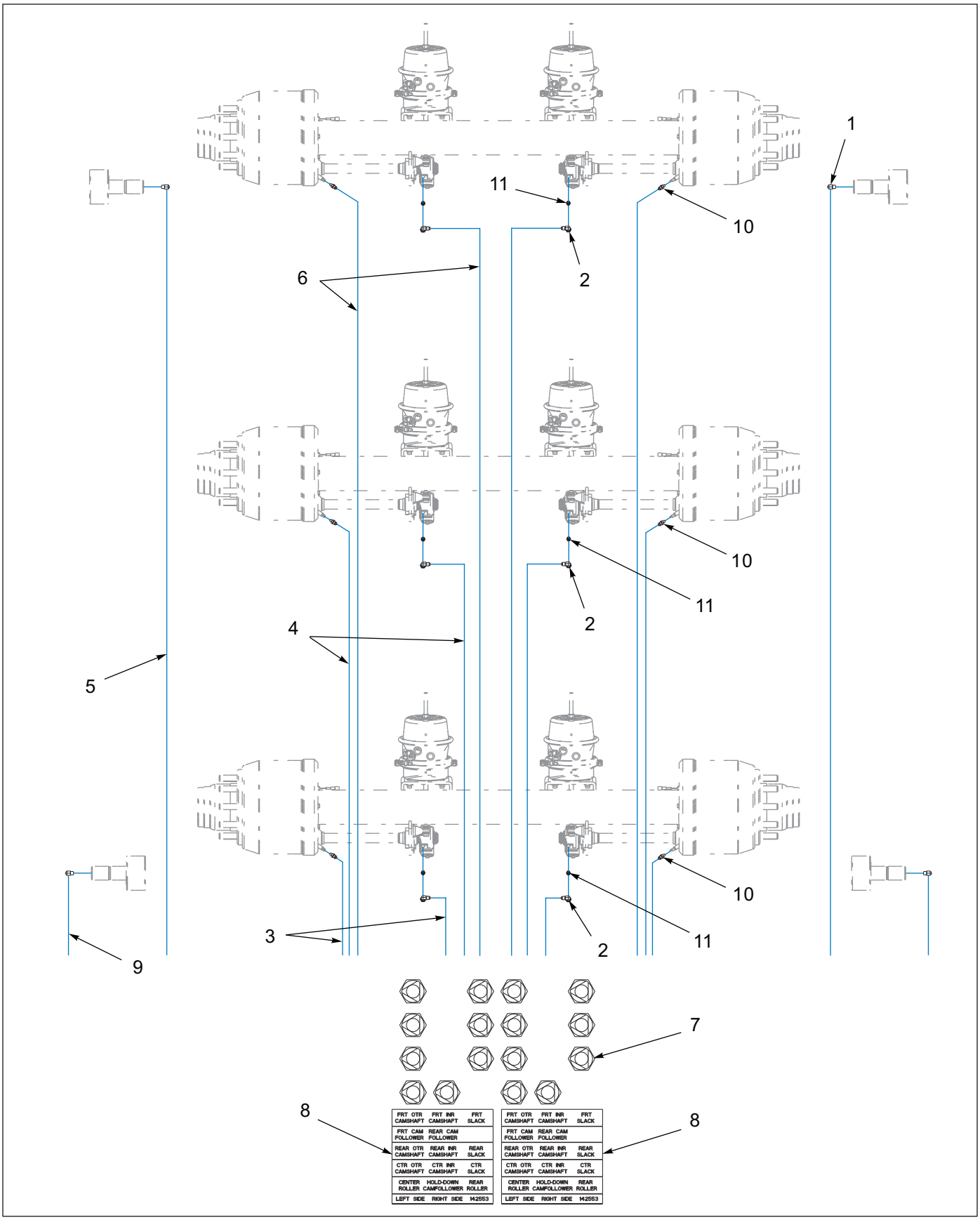


Figure 1-25: Suspension - Grease System

Undercarriage - Grease System

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

Axle and Brakes

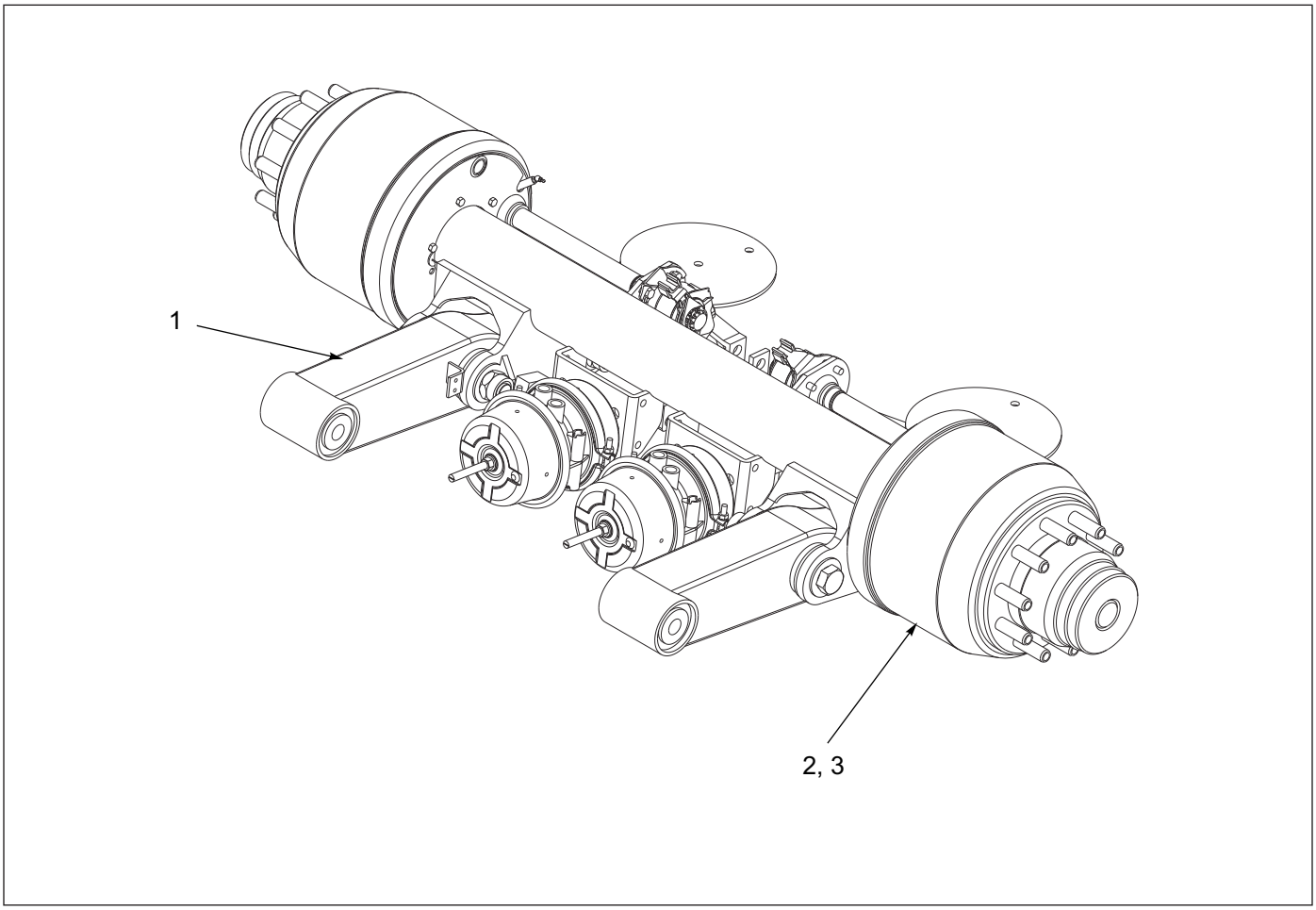


Figure 1-26: Axles - SAF

Axles - SAF

ITEM	PART NO.	DESCRIPTION	QTY.
	127235	AXLE WLDMT SAF 410FRONT **(REF ONLY)**	1
	127237	AXLE WLDMT SAF 410 REAR **(REF ONLY)**	2
1	117346	SUSPENSION BEAM BLU 250-3.5 **(25,000 POUND CAPACITY)**	3
2	126810	AXLE 10,000 KG NO ABS **(REF ONLY) (1690mm WIDTH, 10-BOLT , 300mm x 200mm BRAKE DIA., NO ABS SENSORS INSTALLED)**	1
3	126812	AXLE 12,000 KG ABS **(REF ONLY) (1690mm WIDTH, 10-BOLT , 300mm x 200mm BRAKE DIA., ABS SENSORS EQUIPPED ON BOTH AXLES)**	2

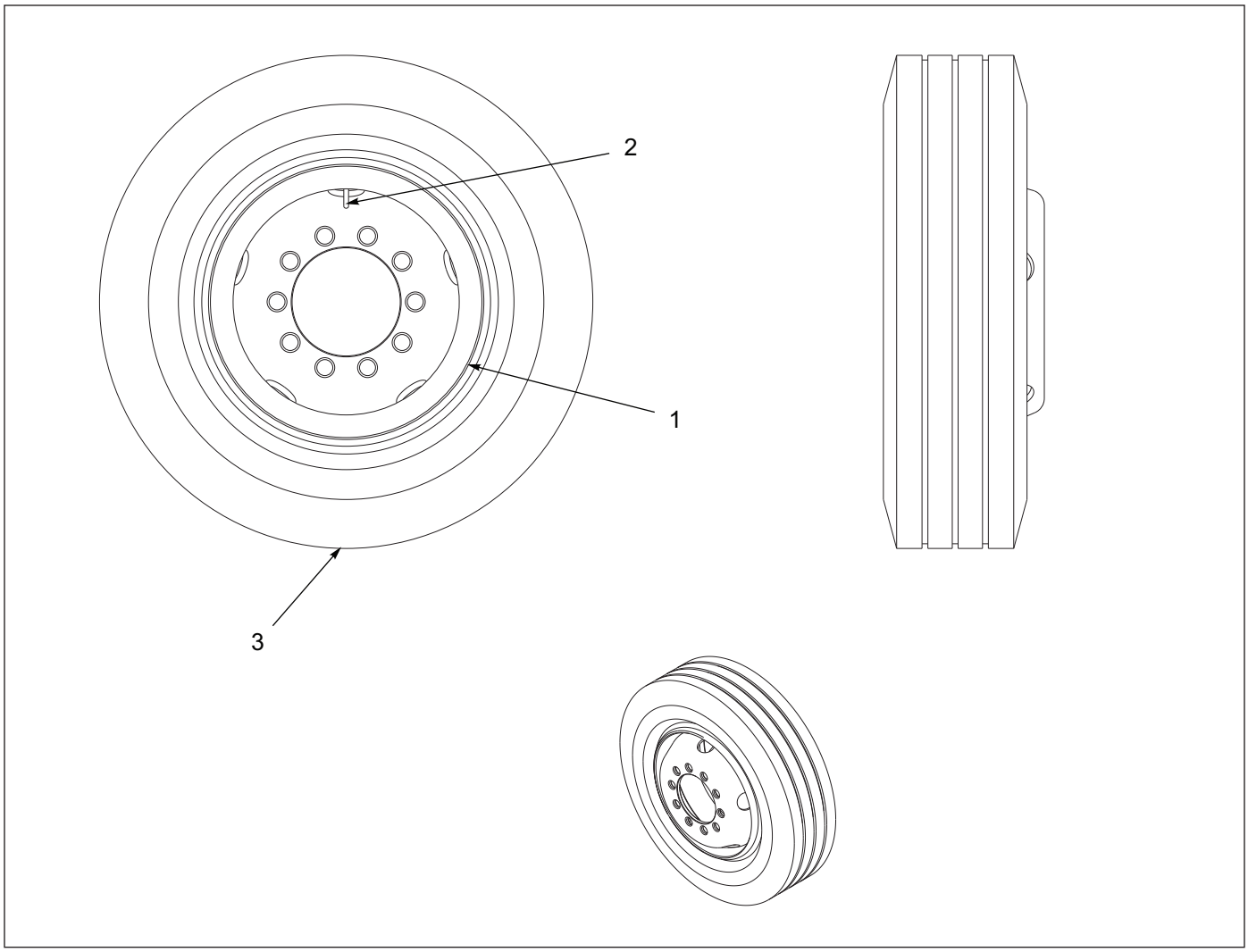
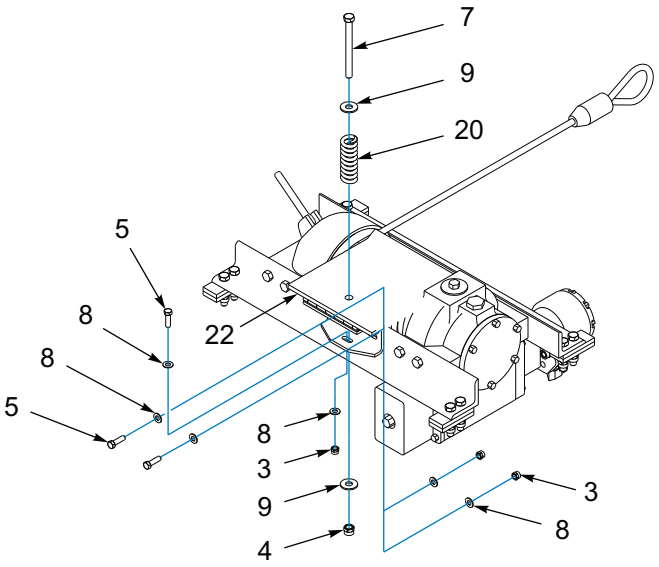


Figure 1-27: Tire Assembly

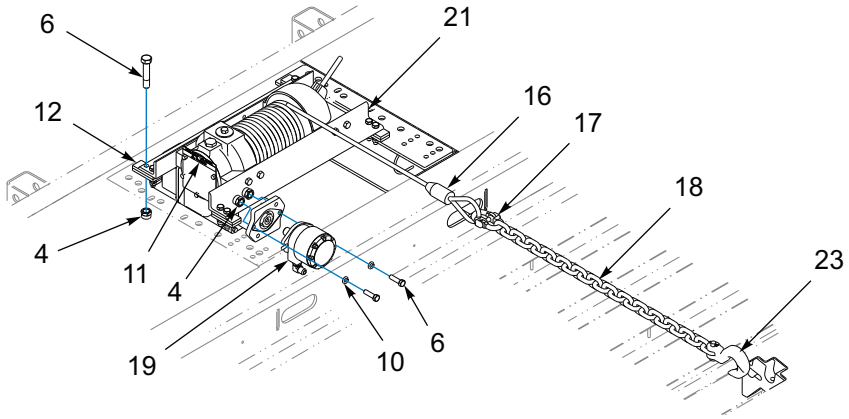
Tire Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	147488	TIRE ASSY 235/75R17.5 DC EURO	
1	117359	WHEEL 17.5X6.75 HUB PILOT	REF
2	118999	VALVE STEM TR545	REF
3	214487	TIRE 235/75/R17.5 DC 18 PLY	REF

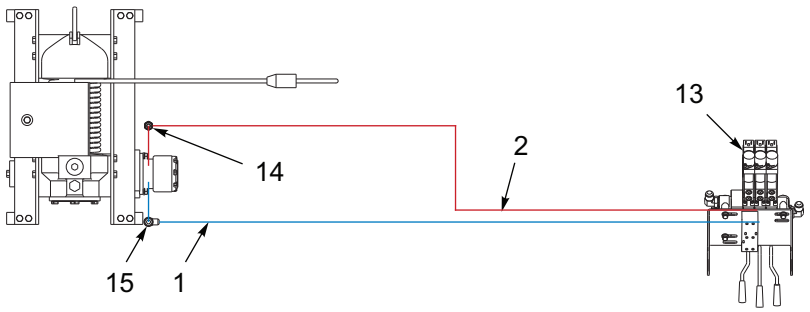
Winches



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-28: Winch Installation - 12K Spring Tension

Winch Installation - 12K Spring Tension

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	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	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

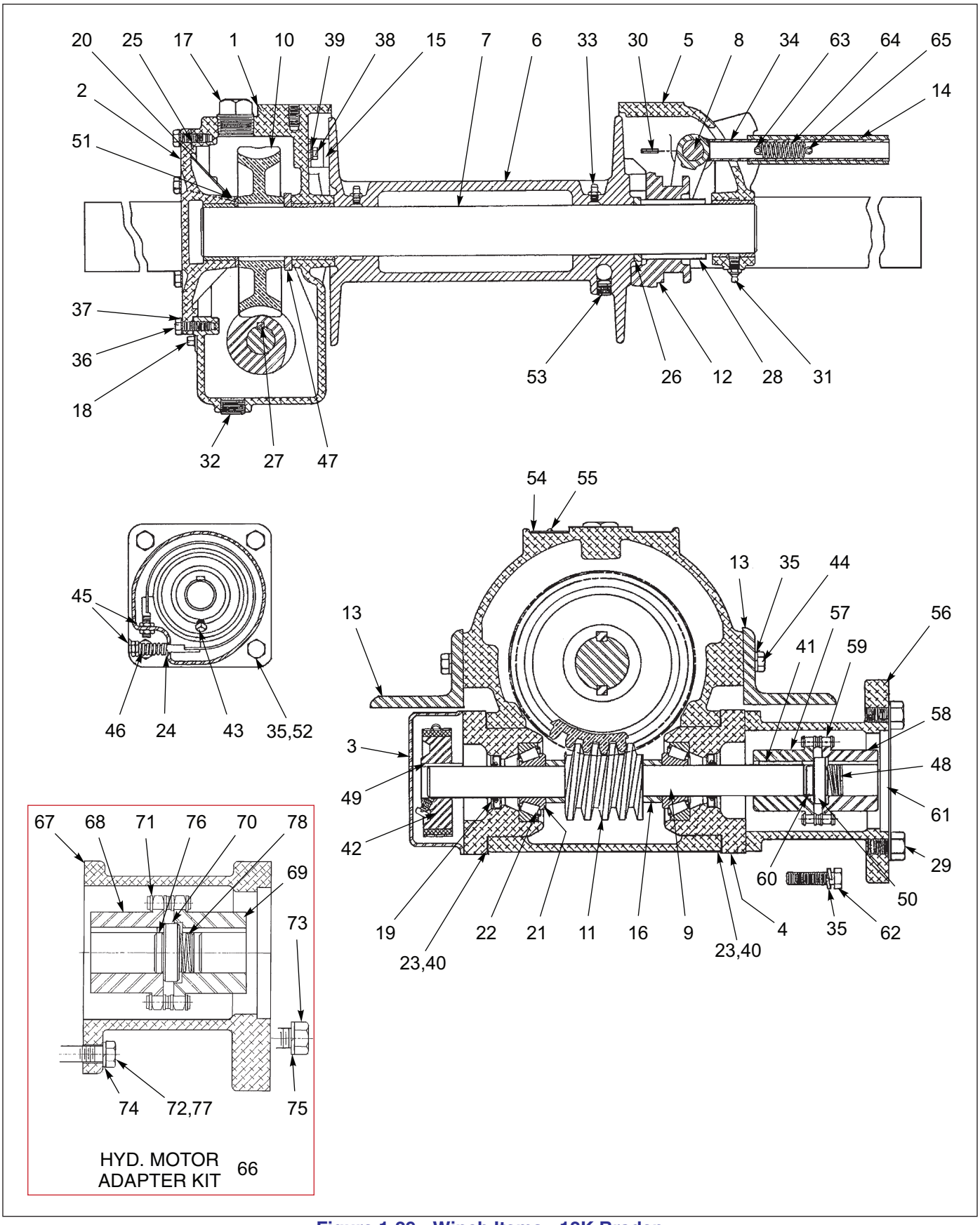


Figure 1-29: Winch Items - 12K Braden

Winch Items - 12K Braden

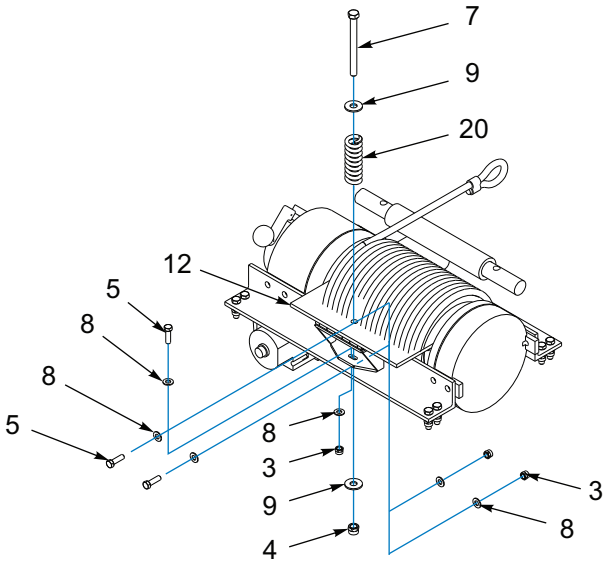
ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH ASSEMBLY 12K - BRADEN	
1	81006	WORM HOUSING ASSEMBLY	1
1	18078	BUSHING	1
2	81009	COVER ASSEMBLY WORM HOUSING	1
2	11368	BUSHING	1
3	18032	HOUSING SAFETY BRAKE	1
4	23303	CONTAINER BEARING	2
5	81530	LEG ASSEMBLY BEARING	1
6	11128	DRUM CABLE	1
7	11129	DRUM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

Winch Items - 12K Braden

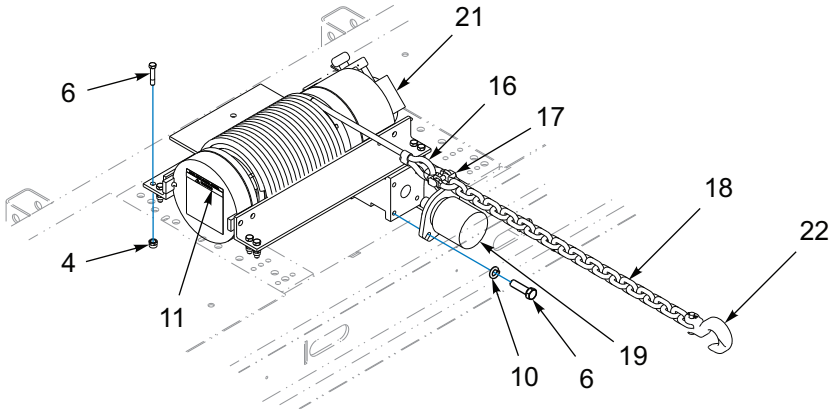
ITEM	PART NO.	DESCRIPTION	QTY.
46	18029	BRAKE BAND SPRING	1
47	11240	RETAINER RING	1
48	----	SPRING	1
49	10078	KEY	1
50	23078	SPACER	1
51	13680	THRUST RING	1
52	----	CAPSCREW	4
53	218058	SETSCREW	1
54	----	WARNING PLATE	1
55	----	DRIVE SCREW	2
56	23079	MOTOR ADAPTER	1
57	23081	COUPLING HALF - WORM SHAFT	1
58	23083	COUPLING HALF - MOTOR SHAFT	1
59	13424	ROLLER CHAIN	1
60	23085	SPACER	1
61	----	SHIPPING COVER	1
62	----	CAPSCREW	4
63	13028	ROLLPIN	1
64	18002	SPRING	1
65	18056	ROLLPIN	1
66	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH **(ITEMS 67- 78)**	1
67	23079	ADAPTER, MOTOR	1
68	23081	COUPLING HALF, WINCH	1
69	23083	COUPLING HALF, MOTOR	1
70	23078	SPACER, CONSTANT	1
71	13424	CHAIN ROLLER	1
72	----	CAPSCREW	4
73	----	CAPSCREW	4
74	----	LOCKWASHER	4
75	----	LOCKWASHER	4
76	----	SPACER	1
77	----	CAPSCREW	4
78	110452	SPRING SPACER	1

Table provided for general use.

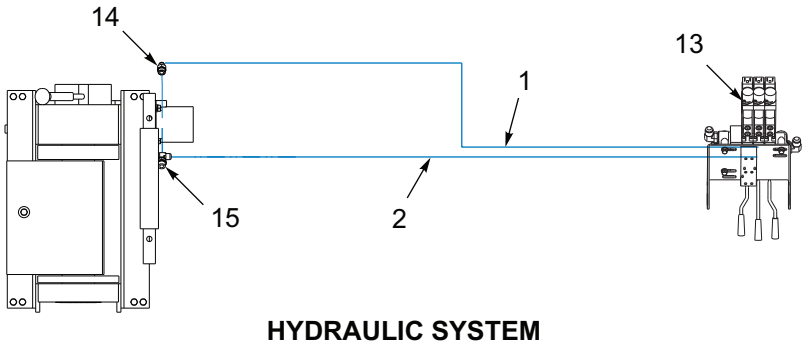
NOTES:



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-30: Winch Installation - 20K Spring Tension

Winch Installation - 20K Spring Tension

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	1
12	102186	WINCH TENSIONER, 20K BRADEN SPRING	1
13	148241	VALVE ASSEMBLY, 3-SPOOL 400	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
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010123	WINCH ASSEMBLY, 20,000LB.	1
22	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

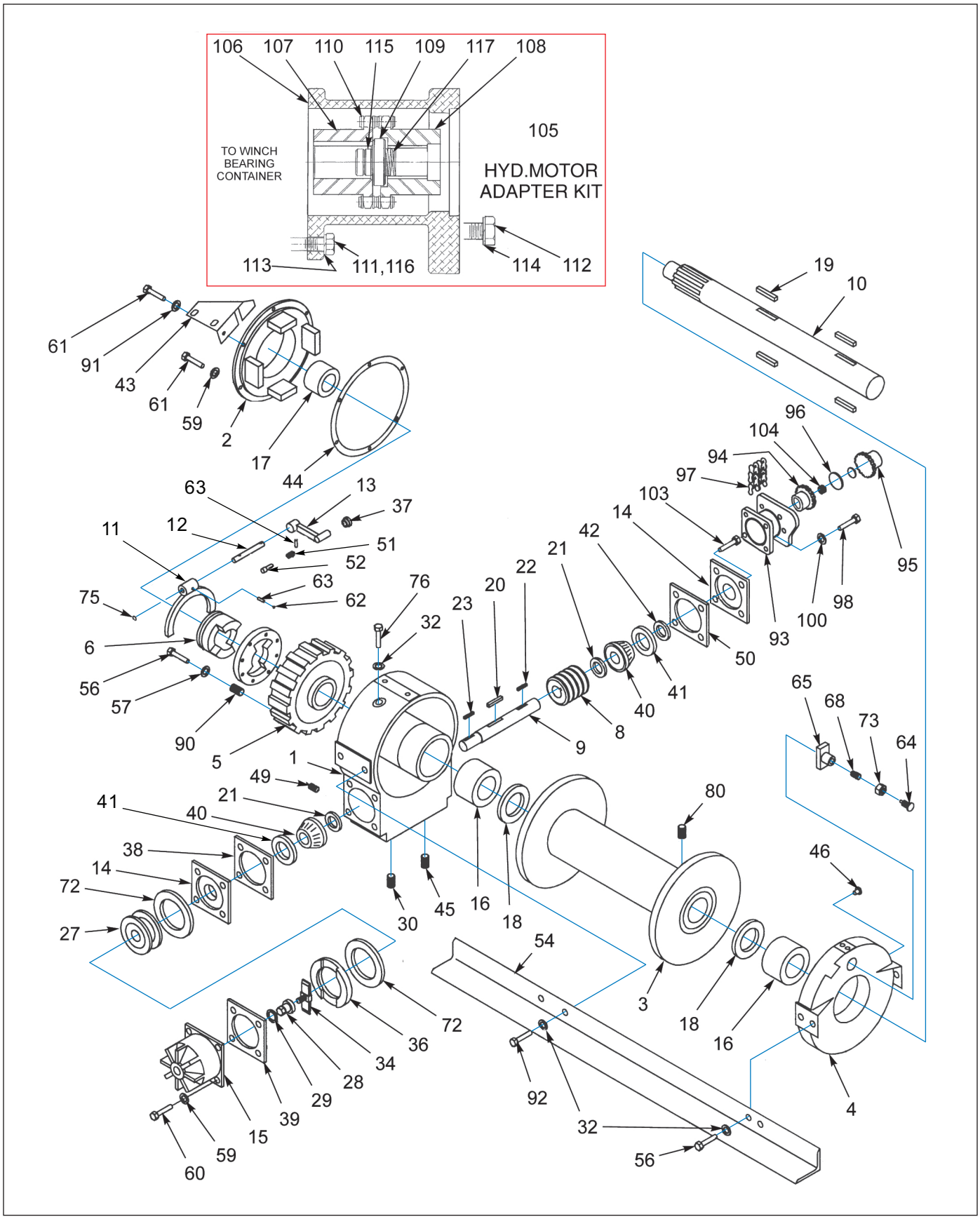


Figure 1-31: Winch Items - 20,000Lb. (BRADEN)

Winch Items - 20K Braden

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

Winch Items - 20K Braden

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

Table provided for general use.

NOTES:

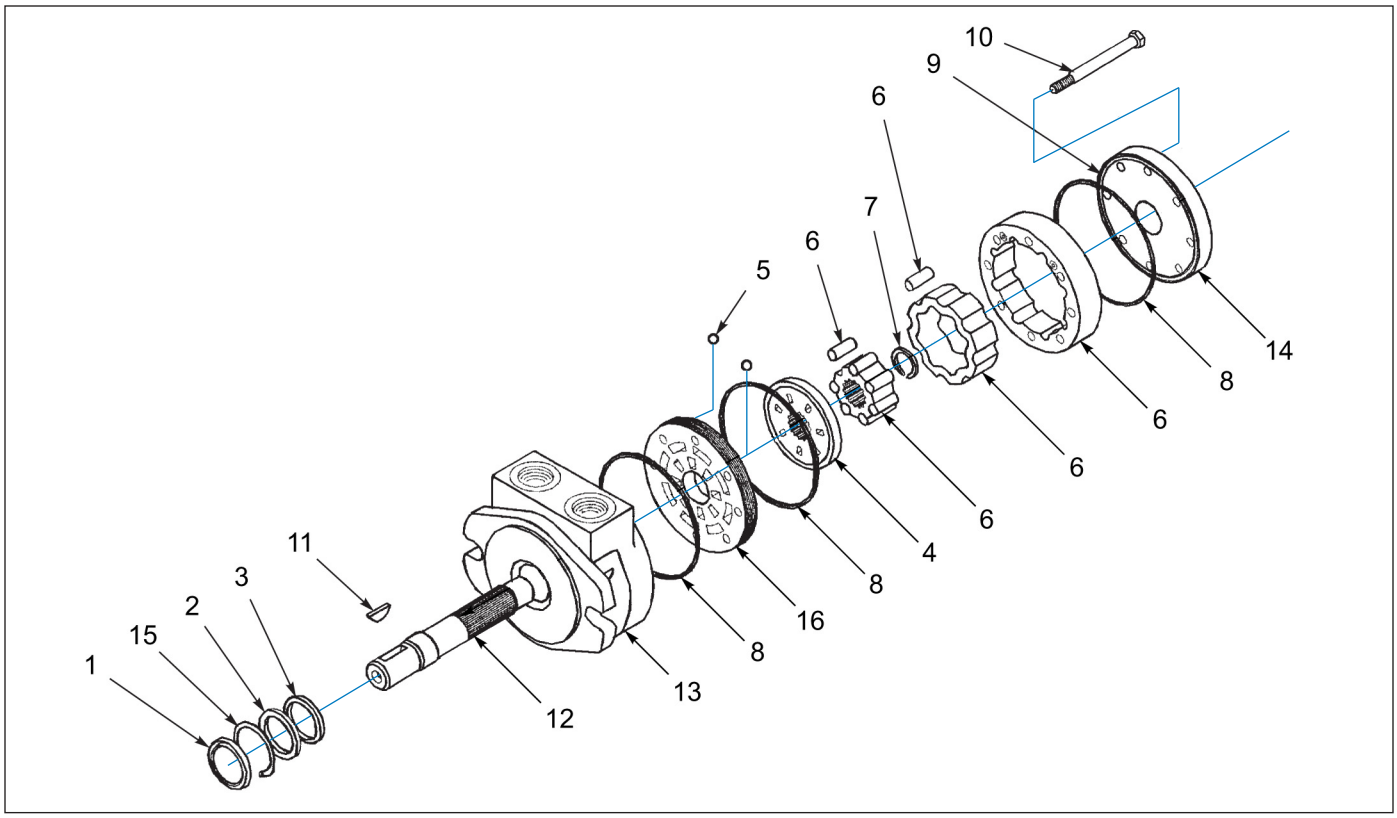


Figure 1-32: Winch - Motor Assembly

Winch - Motor Assembly

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

Table provided for general use.

NOTES:

Landing Gear

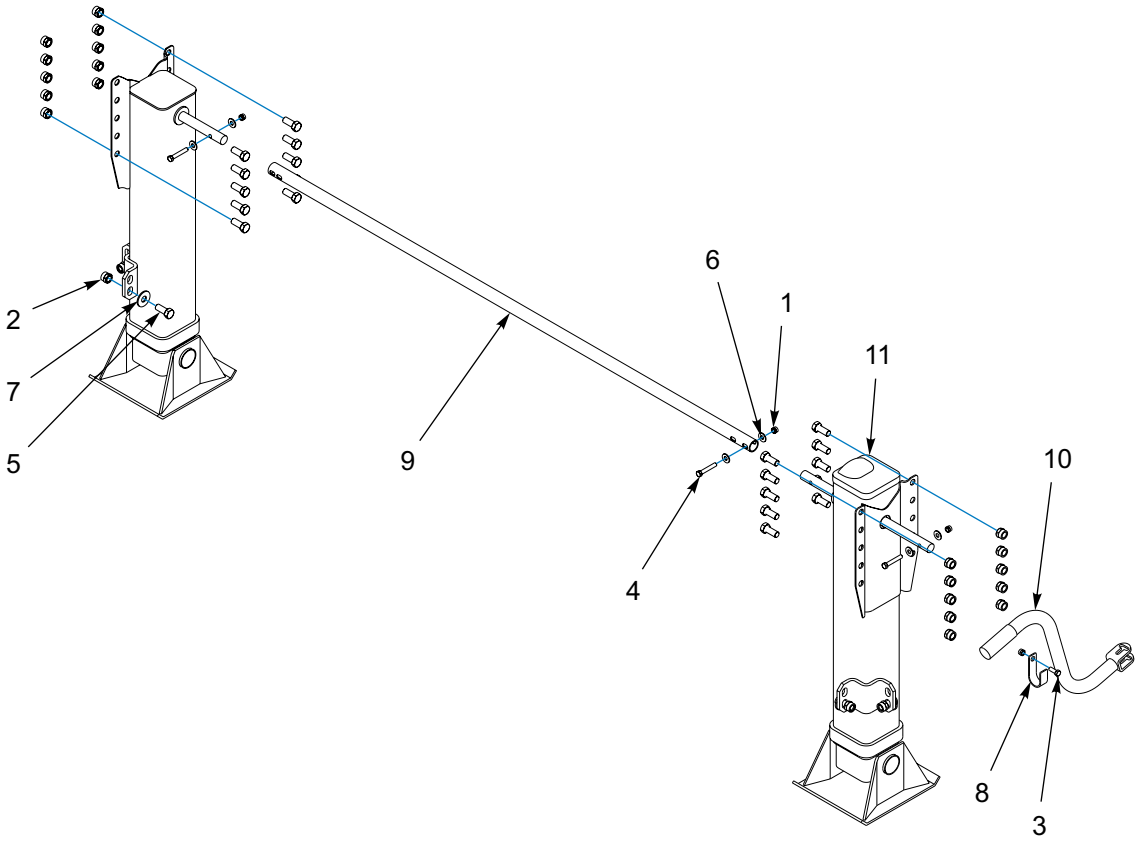


Figure 1-33: Landing Gear - Jost 410

Landing Gear - 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	1

Dock Levelers

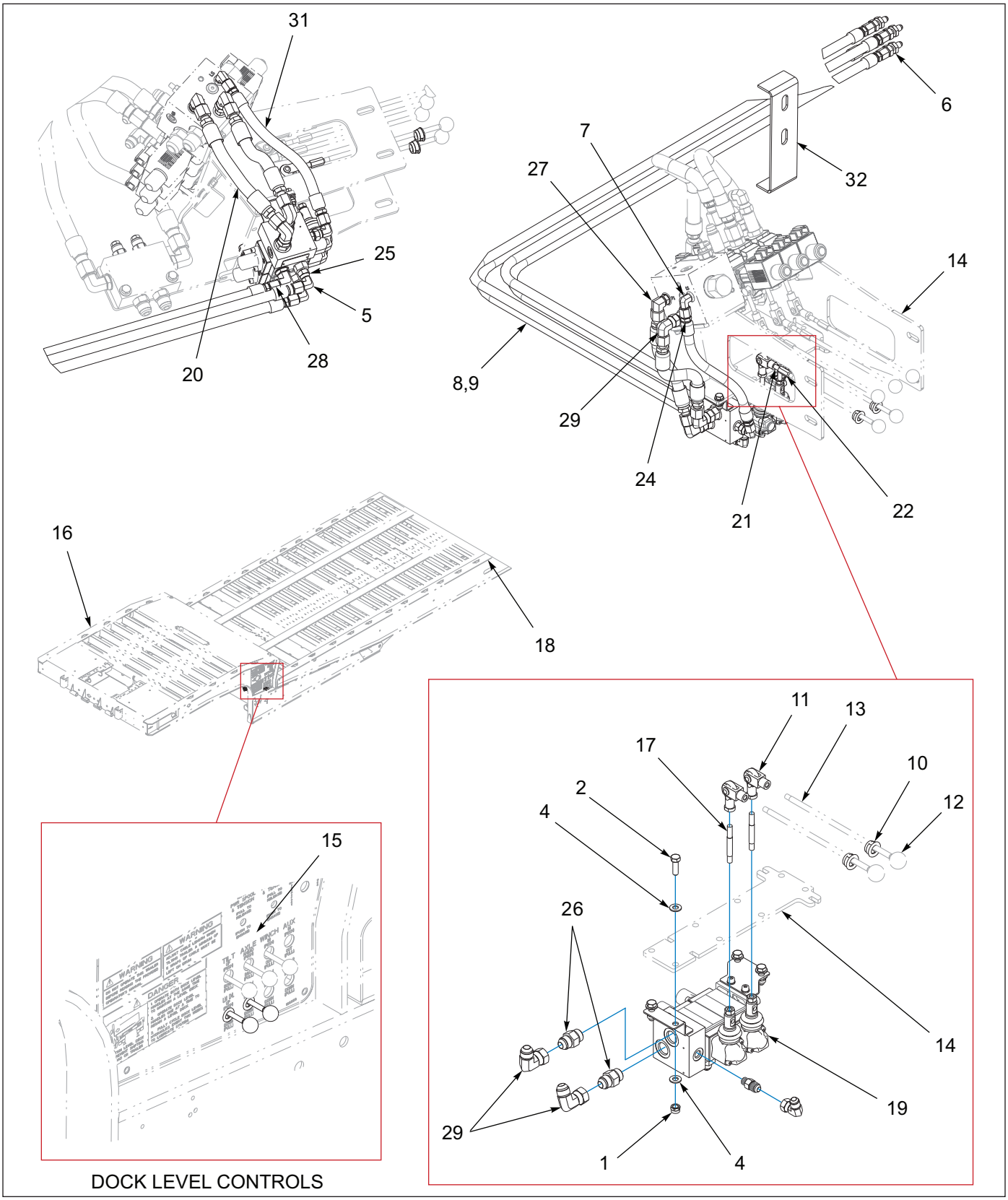


Figure 1-34: Dock Level Installation

Dock Level Installation

ITEM	PART NO.	DESCRIPTION	QTY.
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	-----	FRAME WLDMT	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
32	3-181-010006	HOSE CLAMP	REF

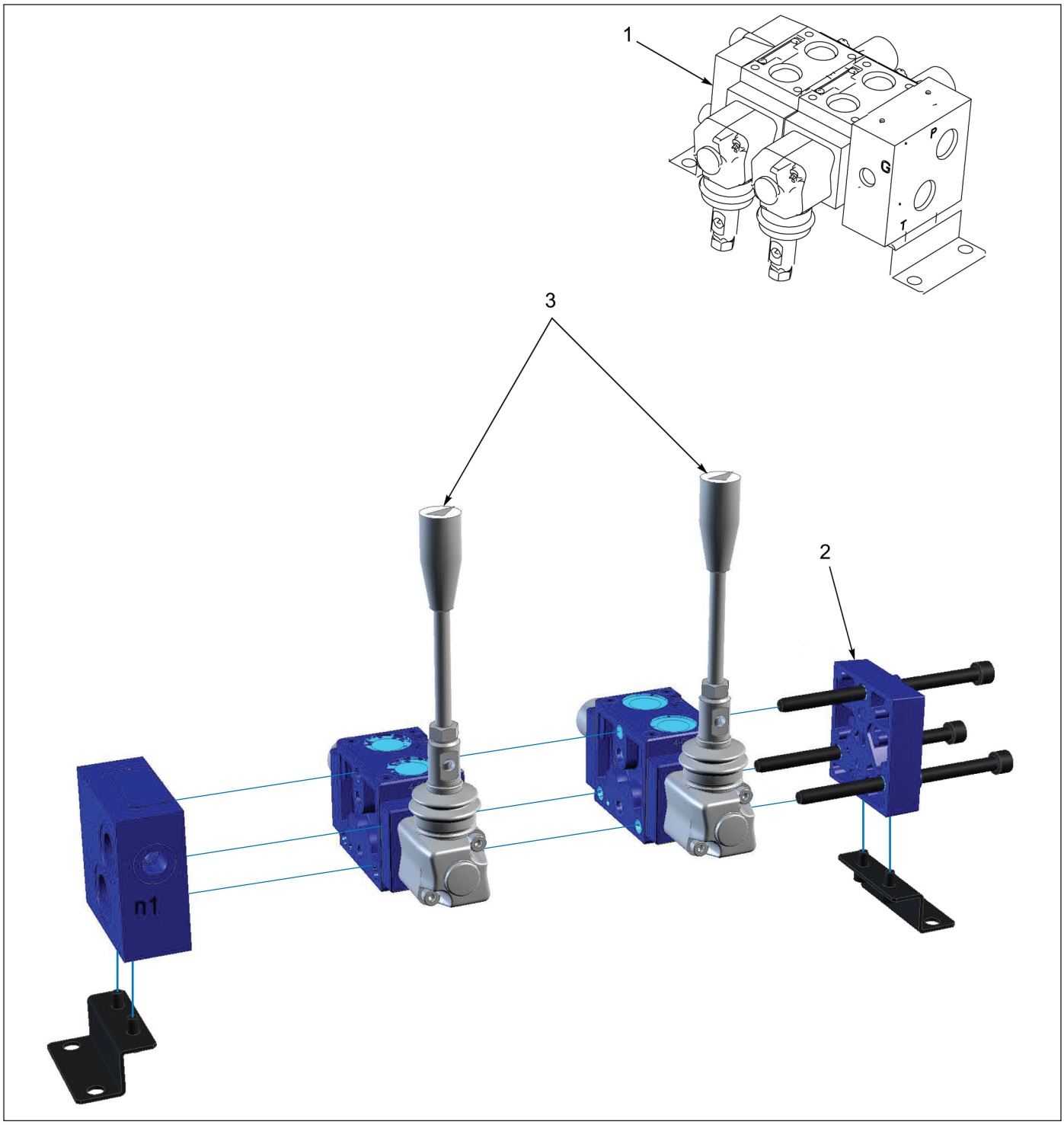


Figure 1-35: Dock Leveler Valve

Dock Leveler Valve

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

Table provided for general use.

NOTES:

Bulkheads

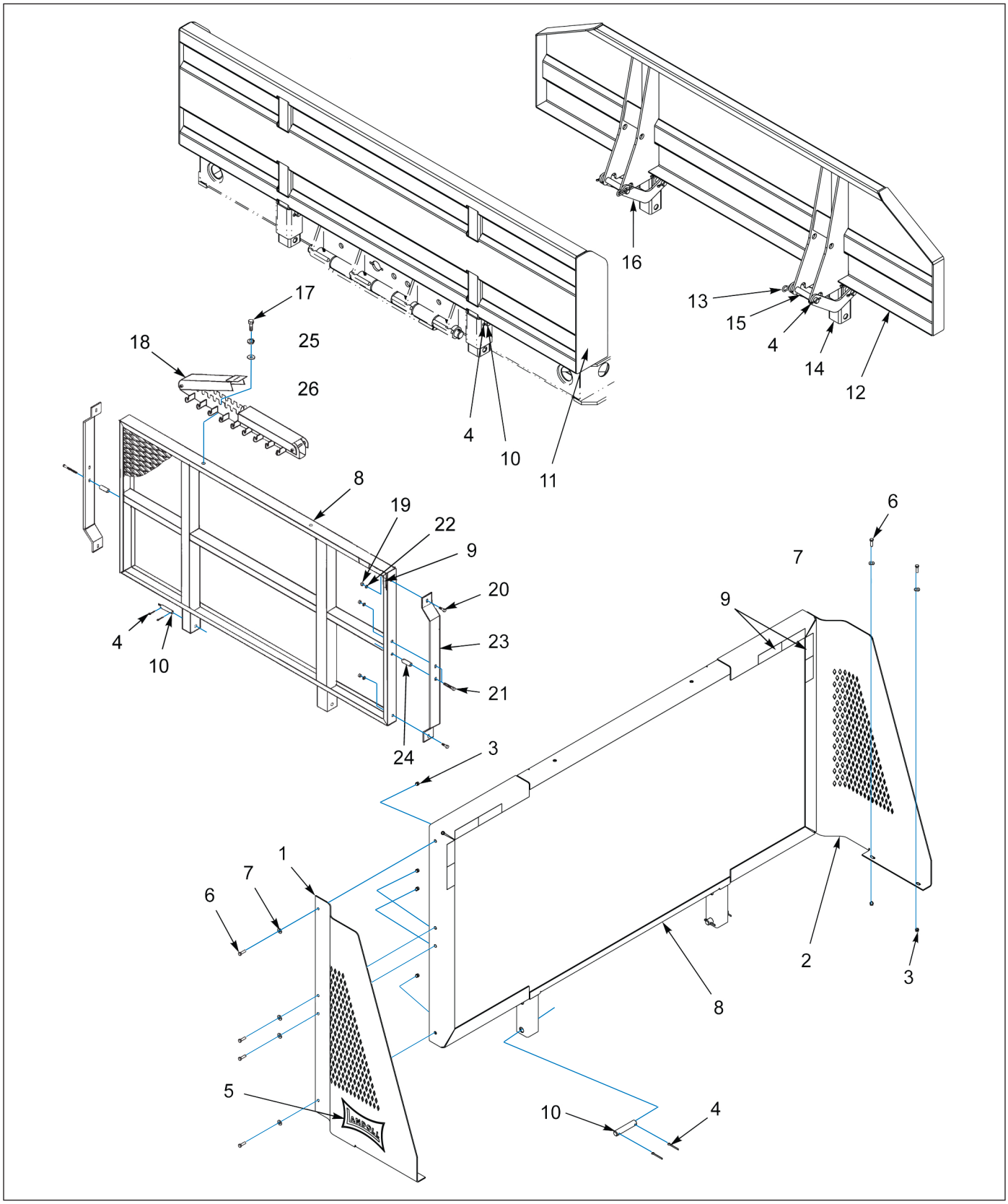


Figure 1-36: Bulkhead Options

Bulkhead Options

ITEM	PART NO.	DESCRIPTION	QTY.	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION **(ITEMS 6-7 &17-18)**	*	
	3-141-010121-1	BULKHEAD INSTALLATION **(ITEMS 4, 8-10 & 19-24)**	*	
1	128137	EXTENSION, BULKHEAD ALUM LH	1	--
1	128153	EXTENSION, BULKHEAD LH	1	--
2	128138	EXTENSION, BULKHEAD ALUM RH	1	--
2	128152	EXTENSION, BULKHEAD RH	1	--
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	12	--
4	1-557-010362-63	COTTER PIN 1/4 X 2	4	4
5	153754	DECAL, BOW TIE BLACK	2	--
5	153755	DECAL, BOW TIE WHITE	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

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Parts Manual

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