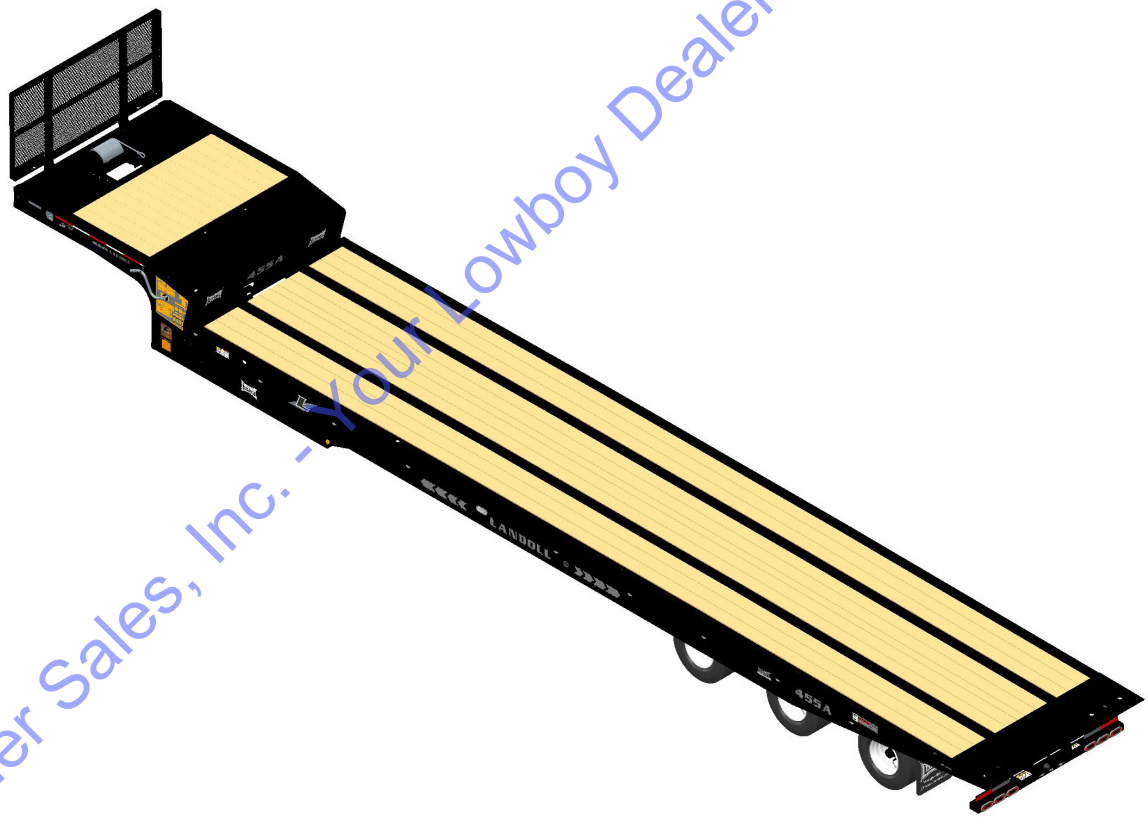
Model 440A/455A
Semitrailer
Parts Manual



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

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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 **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 455A/455ASeries Semitrailer is located on the identification plate.

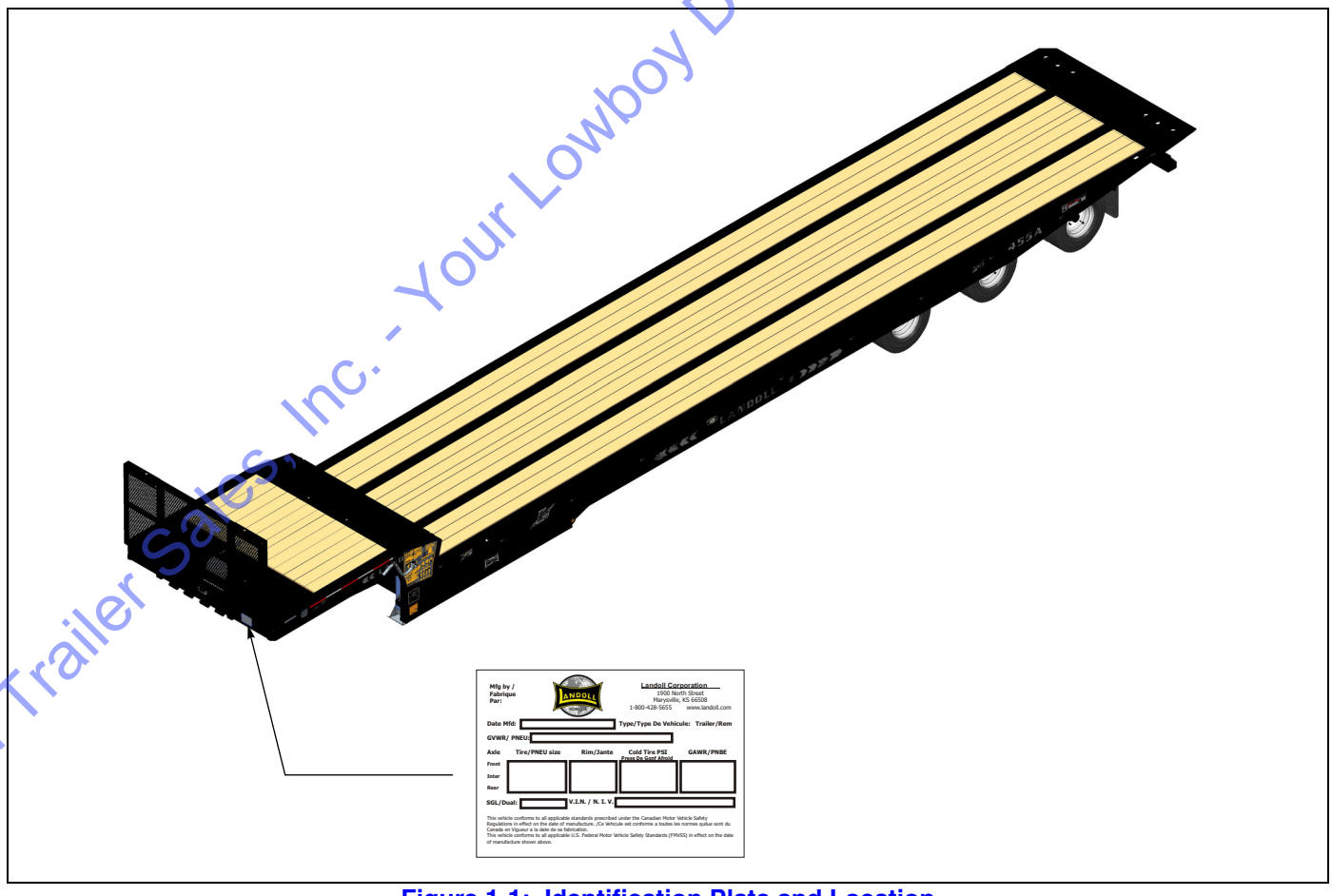


Figure 1-1: Identification Plate and Location

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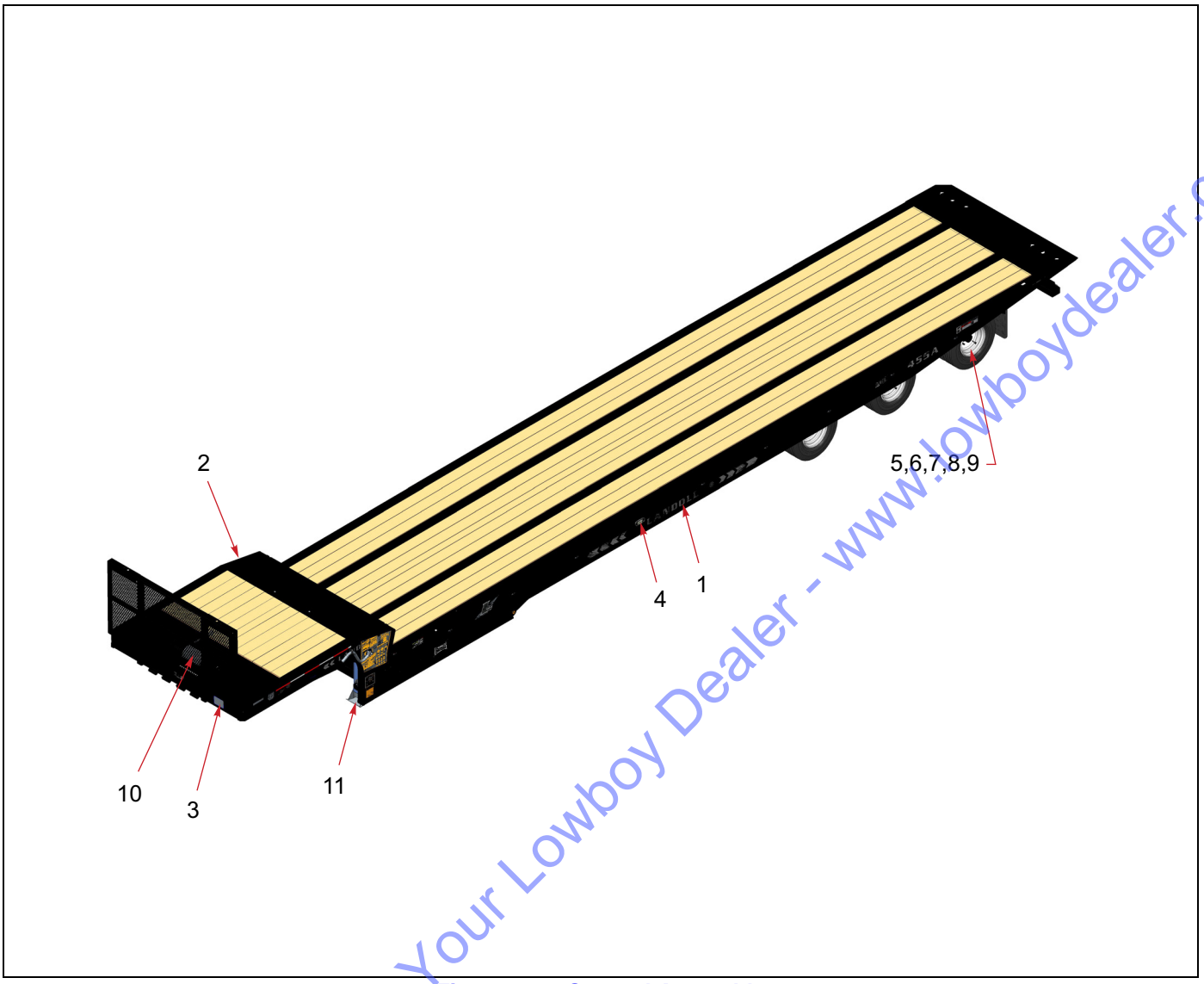


Figure 1-2: General Assembly

General Assembly

ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1	1-3 - 1-5	DECAL INSTALLATION	
2	1-6 - 1-8	UPPER DECK ASSEMBLY	
3	1-10 - 1-29	HYDRAULIC SYSTEM AND ASSEMBLIES	
4	1-30 - 1-32	ELECTRICAL SYSTEM AND REMOTE ASSEMBLIES	
5	1-33 - 1-45	UNDERCARRIAGE ASSEMBLIES	
6	1-46 - 1-55	AIR RIDE SUSPENSION	
7	1-56 - 1-63	AXLE AND BRAKE ASSEMBLY	
8	1-64 - 1-71	AIR BRAKE SYSTEM	
9	1-72 - 1-81	TIRE INFLATION SYSTEM	
10	1-82 - 1-107	WINCH ASSEMBLIES	
11	1-109 - 1-127	LANDING GEAR AND DOCK LEVELER ASSEMBLIES	
12	1-128 - 1-238	MISCELLANEOUS OPTIONS **(NOT SHOWN)**	

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Decals

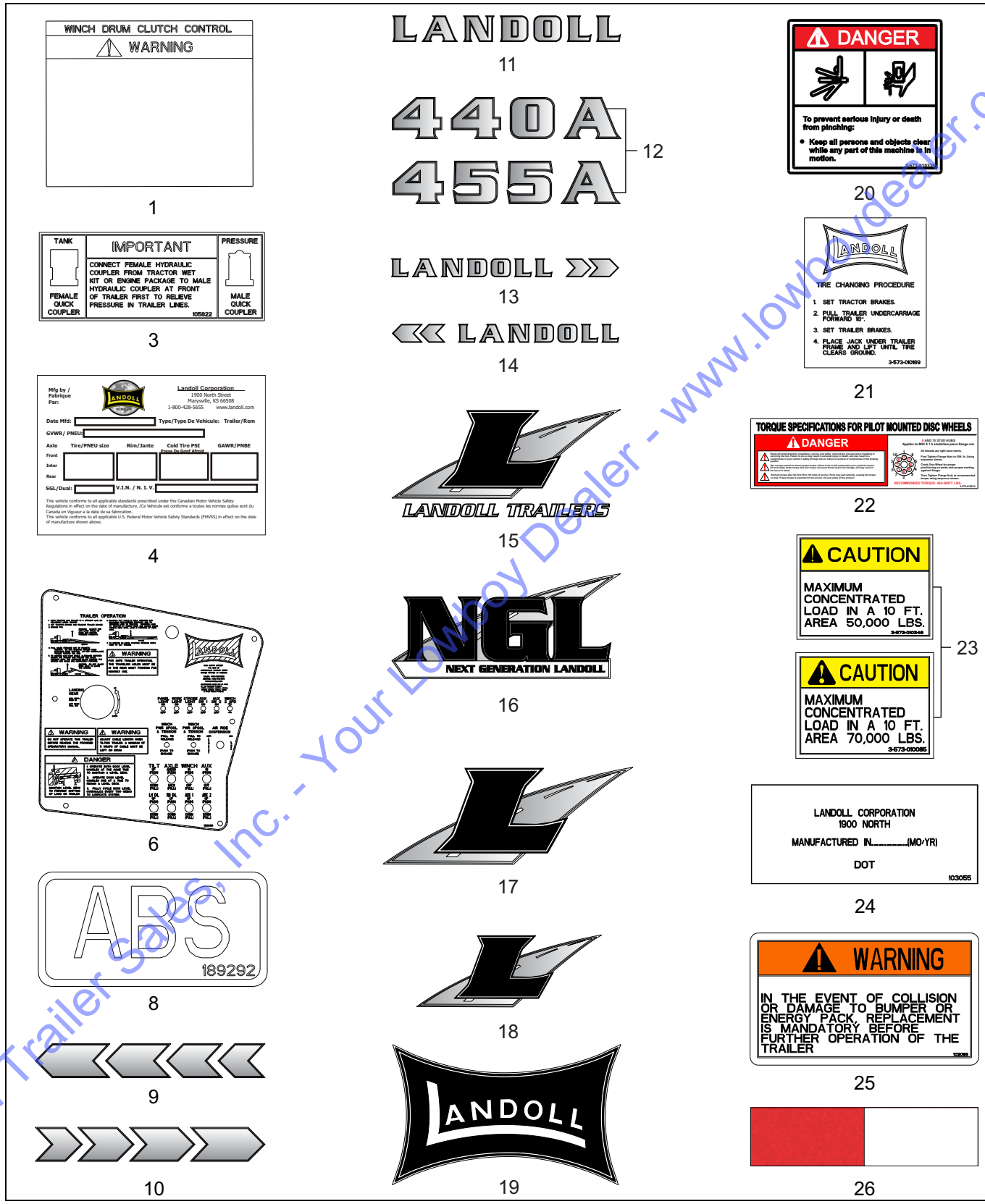


Figure 1-3: Decal Arrangement (1 of 2)

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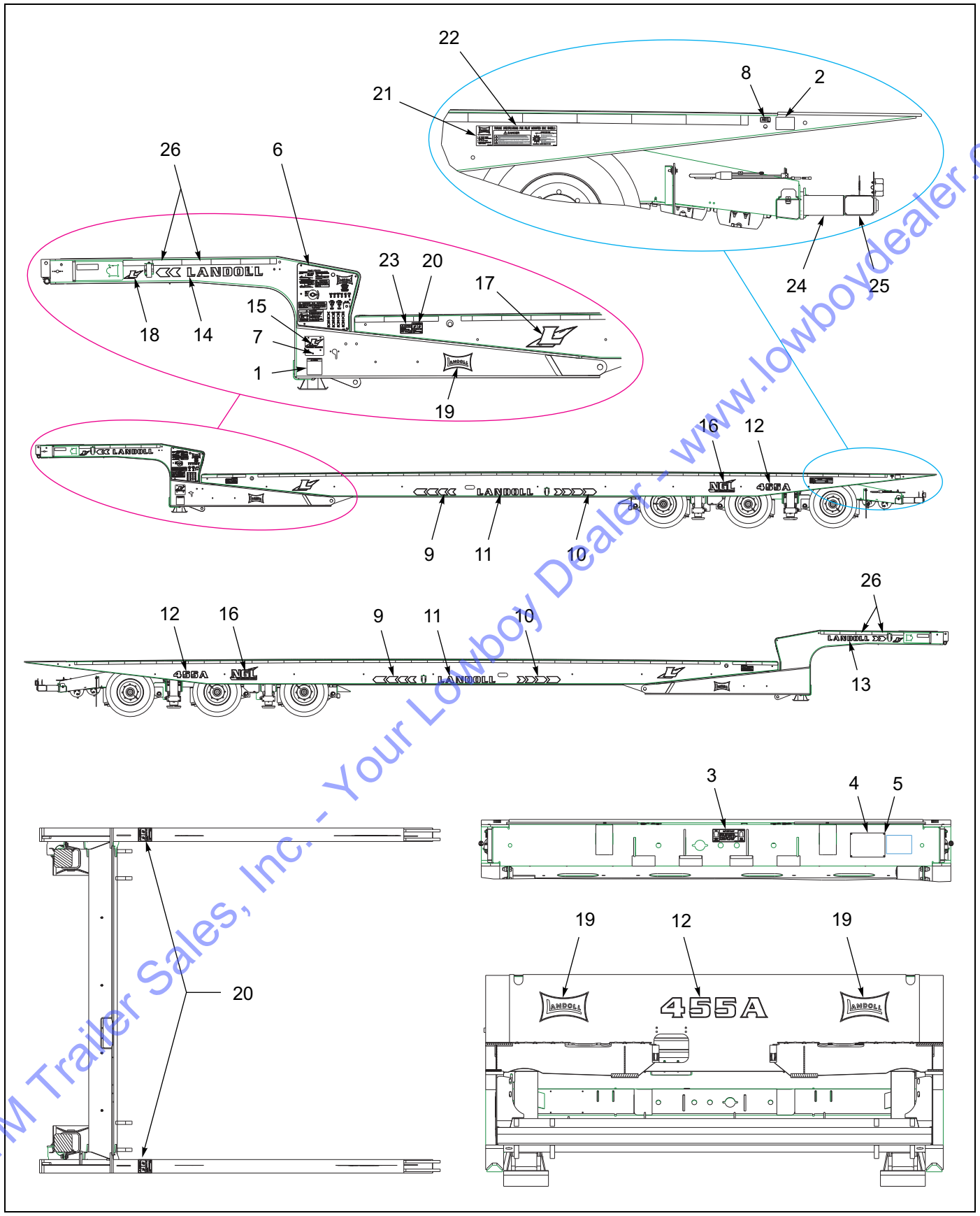


Figure 1-4: Decal Installation (2 of 2)

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Decal Installation & Arrangement

ITEM	PART NO.	DESCRIPTION	QTY.
	189552	DECAL INSTALLATION 440A	REF
	190253	DECAL INSTALLATION 455A	REF
1	100600	DECAL, WARNING BRADEN WINCH	REF
2	101855	DECAL, ABS **(NOT SHOWN)**	1
3	105822	DECAL, HYDRAULIC COUPLER	REF
4	155780	TRAILER VIN PLATE	1
5	156010	RIVET, BLIND .156 X 1/2 GRIP	1
6	186889	PLACARD CONTROL PANEL	REF
7	189253	PLATE COVER, WEIGHT SCALE	4
8	189292	DECAL, ABS, WHITE	1
9	189329	DECAL, ARROW LH	2
10	189330	DECAL, ARROW RH	2
11	189331	DECAL, LANDOLL	2
12	189332	DECAL, 440A	3
	189338	DECAL, 455A	3
13	189333	DECAL, LANDOLL CS	1
14	189334	DECAL, LANDOLL SS	1
15	189336	DECAL, LANDOLL TRL	1
16	192201	DECAL, NGL	2
17	192204	DECAL, HWY L, 19-7/16 X 7-9/16	2
18	192205	DECAL, HWY L, 7-3/8 X 2-7/8	2
19	192208	DECAL, BOWTIE	4
20	2-573-010335	DECAL, DANGER PINCHING	4
21	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1
22	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
23	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	2
	3-573-010085	DECAL, CAUTION 70,000LBS	2
24	103055	DECAL, ENERGY CERTIFICATION	REF
25	103056	DECAL, ENERGY BUMPER WARNING	1
26	3-573-010377	DECAL, 2” REFLEXITE TAPE RED/WHITE	AR

NOTE: IF TRAILER IS REPAINTED OR IF DECALS BECOME ILLEGIBLE, ORDER NEW ONES FROM THE FACTORY AND REPLACE

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Upper Deck

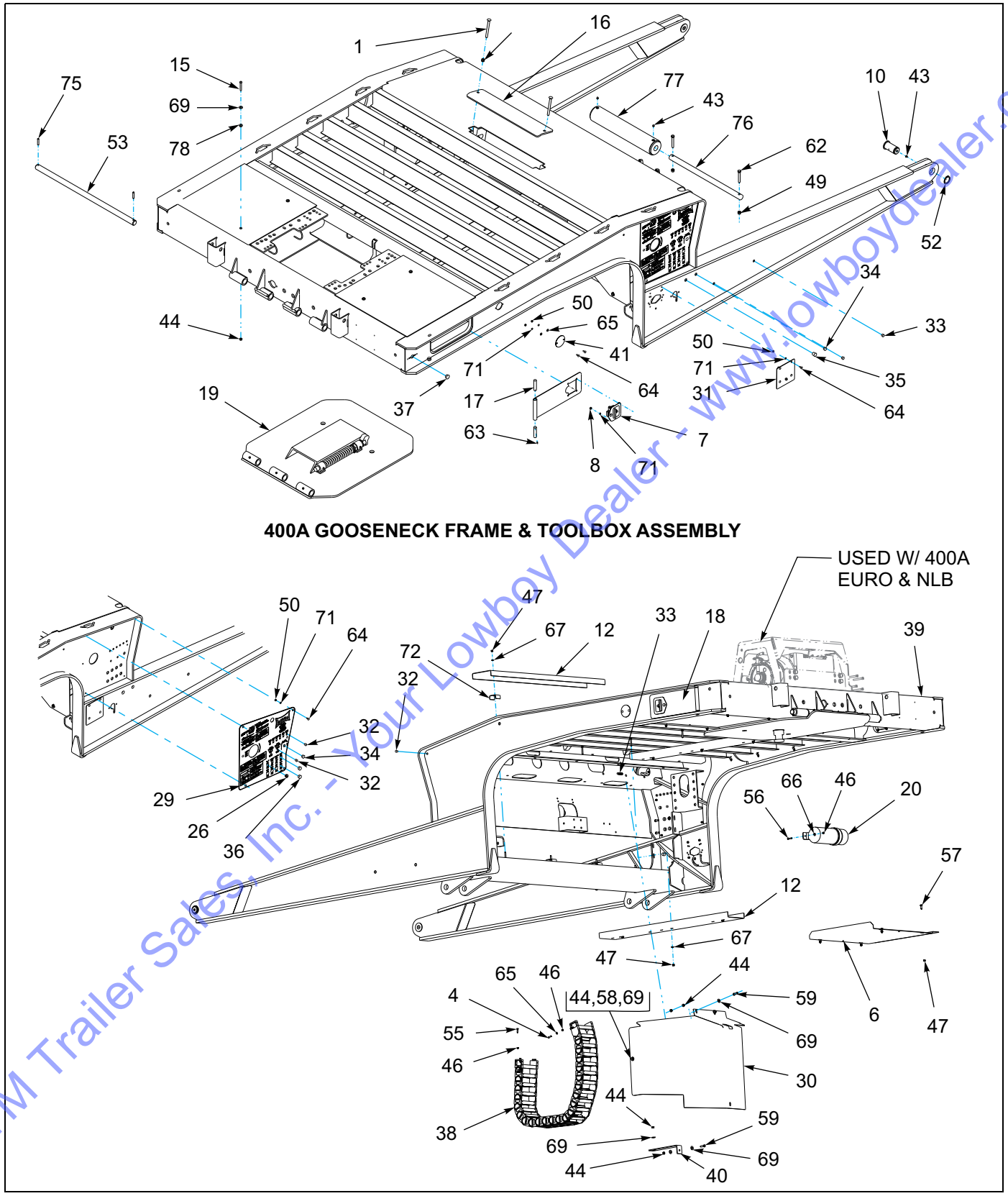
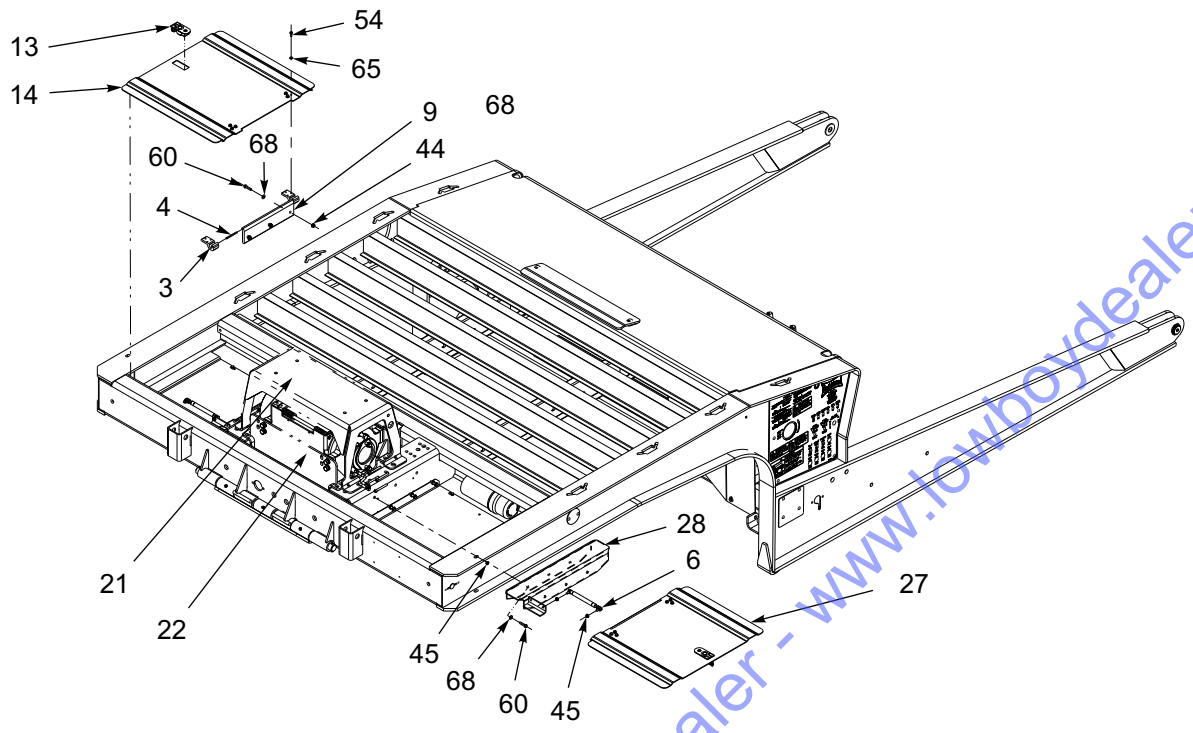
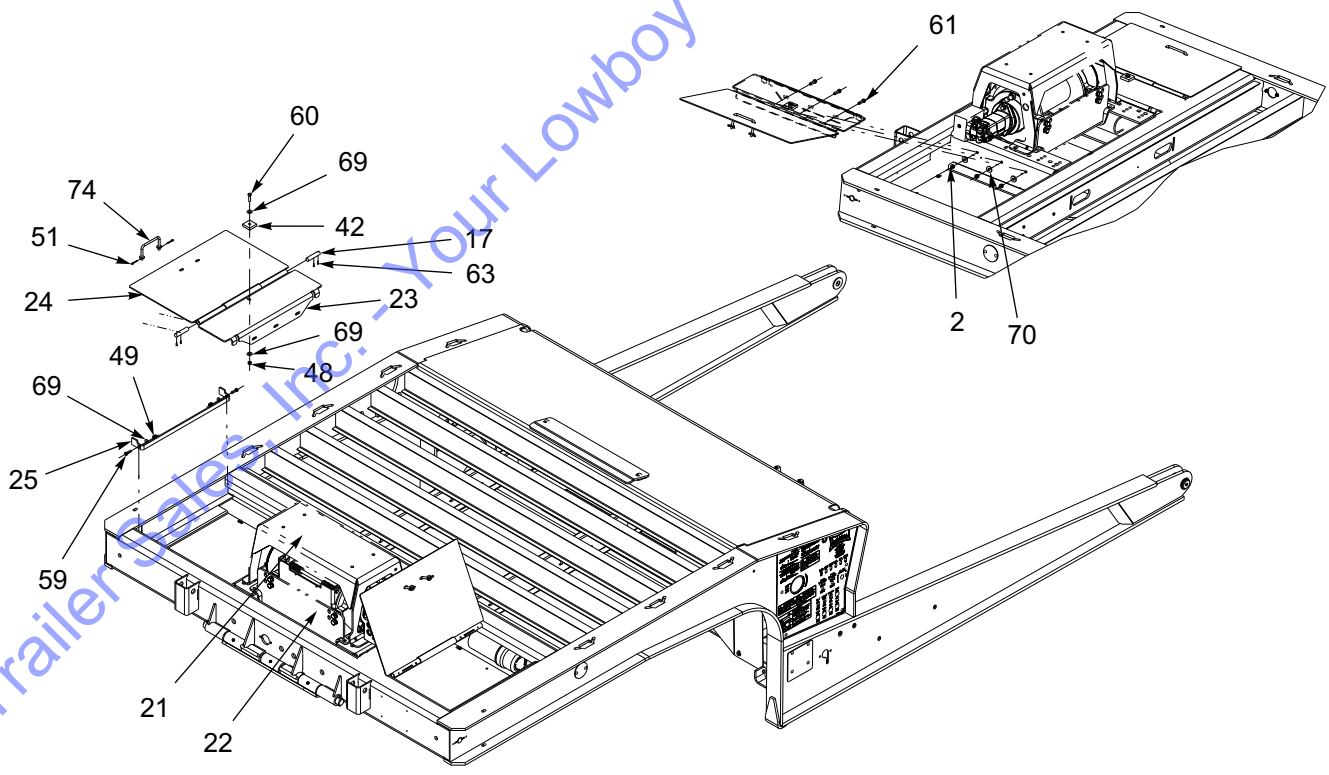


Figure 1-5: Upper Deck Assembly (1 of 2)

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400A EURO GOOSENECK FRAME & TOOLBOX ASSEMBLY



400A NLB GOOSENECK FRAME & TOOLBOX ASSEMBLY

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

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Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.		
	189600	FRAME ASSY, 400A G/N	*		
	191861	FRAME ASSY, 400A G/N NLB		*	
	191866	FRAME ASSY, 400A EURO TLBX			*
1	100939	SCREW,RDHD, SQNCK1/2-13X5-1/2	2	2	2
2	101988	NUT,HEXSLF-LKG 7/16-14 GRB	--	6	--
3	108545	HINGE,BENDI DOOR,FR SID	--	--	4
4	108601	PIN, DOOR HINGE	--	--	4
5	108610	SCREW BHSC 1/4-20UNCX1	4	4	4
6	110435	BT CONSOLE LIFT,GAS SPRING	--	--	2
7	114814	LATCH FOLDING T LOCKABLE	2	--	--
8	115877	NUT HVY HEX 1/4-20 GR5	8	--	--
9	116856	HINGE,BASE TOOLBOX LID,410G/N	--	--	2
10	116943	PIN WLDMT PIVOT 410	2	2	2
11	117544	PLATE, TOOLBOX BOTTOM 410 G/N	2	2	2
12	117565	COVER,HOSE LOWER, 410 G/N	3	3	3
13	118853	LATCH COMPRESSION SOUTHCO	--	--	2
14	118880	DOOR WLDMT,TOOLBOX 410-102G/N	--	--	REF
15	119146	SCREW,BHSC 3/8-16UNCX2-3/4	4	--	--
16	131196	PLATE,WINCH CABLE WEAR U/D400	1	1	1
17	135181	BUSHING NYLATRON TOOLBOX	4	4	--
18	136352	DOOR WLDMT TOOLBOX 400 RMW	REF	--	--
19	141609	HITCH PLATE ASSY 400	1	1	1
20	150076	MANUAL TUBE 4-1/4”ID	1	1	1
21	171167	GUARD WINCH 20/30K WARN	--	REF	REF
22	174552	WINCH ASSY WARN 30K 2 SPEED	--	REF	REF
23	175940	SUPPORT WLDMT TOOLBOX LID	--	2	--
24	175942	LID WLDMT TOOLBOX	--	2	--
25	176069	CHAIN HOLDER,TOP OPEN TOOLBOX	--	2	--
26	178444	BUSHING NYLON INSERT 9/16ID	3	3	3
27	179312	DOOR WLDMT TLBX EURO LH G/N	--	--	REF
28	182601	CABLE ASSY 4/0 X 78 HI-TEMP	--	--	REF
29	186889	PLACARD, CONTROL PANEL, 400A	REF	REF	REF
30	186890	SHIELD HYD CONTROLS	1	1	1
31	189253	PLATE, COVER,WEIGHT SCALE	1	1	1
32	189278	PLUG, PLASTIC DOME, 1/2”HOLE	8	8	8
33	189279	PLUG, PLASTIC DOME, 5/8”HOLE	4	4	4
34	189280	PLUG, PLASTIC DOME, 3/4”HOLE	2	2	2
35	189281	PLUG, PLASTIC DOME, 13/16”HOLE	1	1	1
36	189282	PLUG, PLASTIC DOME, 7/8”HOLE	5	5	5
37	189283	PLUG, PLASTIC DOME, 1"HOLE	1	1	1
38	189326	SUPPORT,E-CHAIN,22 LINKS,3838W	1	1	1
39	186901	GOOSENECK WLDMT, US 400	1	--	--
	191858	WLDMT,GOOSENECK, 400NLB	--	1	--
	191868	GN WLDMT,400A FLIPUP TOOLBOX	--	--	1
40	192152	SHIELD BRACE G/N 400A	1	1	1
41	193912	PLATE, COVER, SWINGOUT LIGHT	2	2	2
42	1-250-010097	PAD, RUBBER	--	2	--
43	1-298-010001-1	ZERK FITTING 1/4 SAE	4	4	4

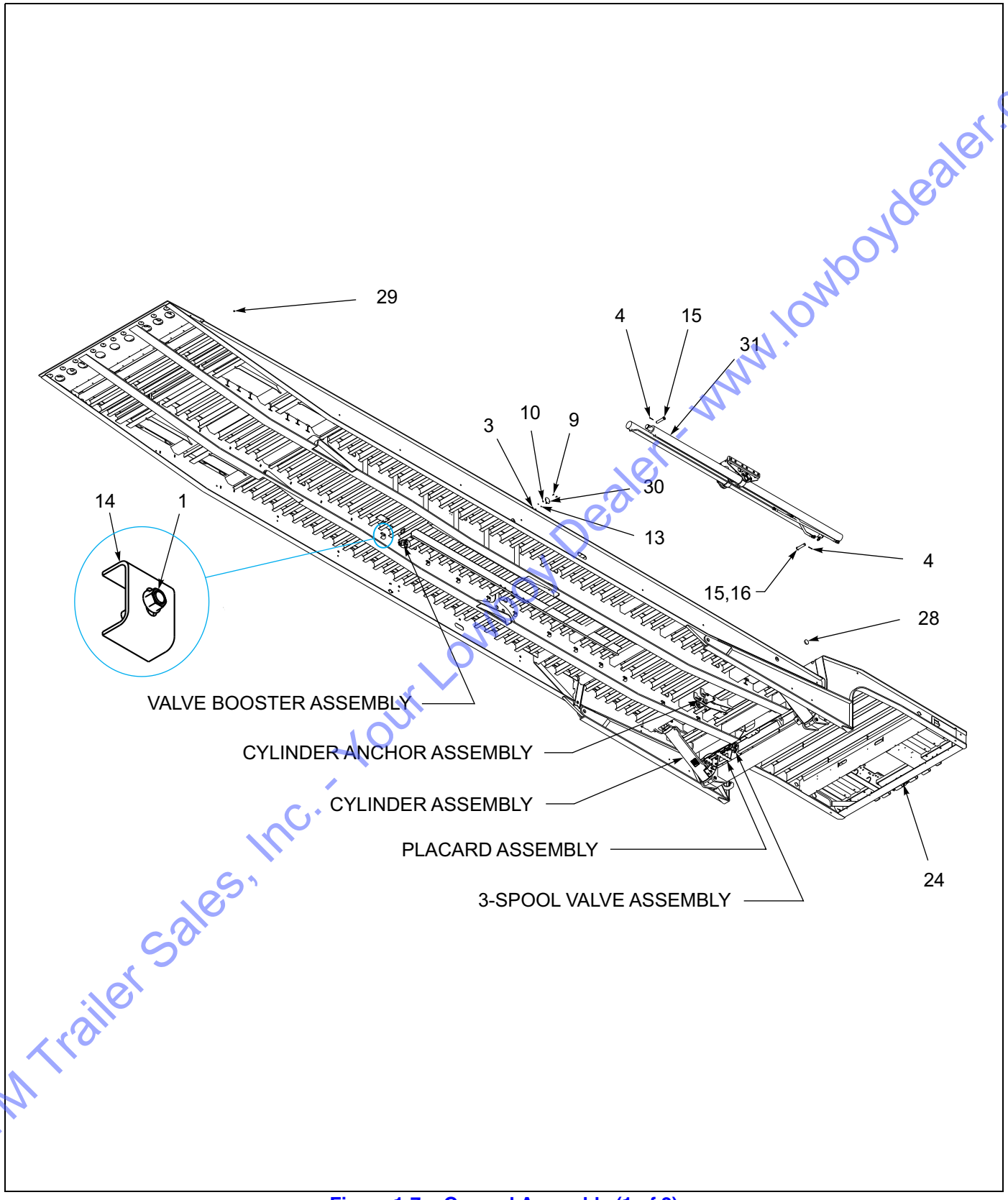
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Upper Deck Assembly

ITEM	PART NO.	DESCRIPTION	QTY.		
44	1-510-010001	NUT, 3/8-16 FLANGE LOCK	11	7	13
45	1-510-010004-03	NUT HX FLANGE, 5/16-18 GR8	--	--	7
46	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	11	11	11
47	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	17	17	17
48	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	--	2	--
49	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	8	4
50	1-512-010007-05	NUT, HEX 1/4-20	14	14	14
51	1-557-010362-40	PIN, COTTER 5/32X1-1/4	--	4	--
52	1-630-010021-02	RING, RETAINING 2 HD	2	2	2
53	1-647-010004255	PIN, SPRING, SLOTTED 3/8X2	2	2	2
54	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5	--	--	12
55	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4	4	4
56	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	3	3	3
57	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	8	8	8
58	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	1	1	1
59	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3	7	3
60	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	--	2	9
61	1-654-010053-05	SCREW HXCP 7/16-14UNCX1-1/2G5	--	6	--
62	1-654-010055-11	SCREW,HX CP 1/2-13UNCX3-1/2	2	2	2
63	1-654-010147-06	SCREW RDHD SLF/TPG #6-20X3/4	8	8	--
64	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNC	14	14	14
65	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	8	8	20
66	1-861-010032-07	WASHER,FLAT 1/4 ZP	3	3	3
67	1-861-010032-08	WASHER,FLAT 5/16 ZP	9	9	9
68	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	--	--	9
69	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	10	18	6
70	1-861-010032-13	WASHER FLAT 7/16	--	6	--
71	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	22	14	14
72	2-181-010001	HOSE CLAMP	3	3	3
73	3-201-010002	CONDUIT 3/8 PLASTIC FLEX **(NOT SHOWN)**	16'	16'	16'
74	3-360-010014	HANDLE TOOL COMP 345	--	2	--
75	3-557-010469	HINGE PIN, FIFTH WHEEL	1	1	1
76	3-642-010134	ROD ROLLER	1	1	1
77	3-645-010059	ROLLER WLDMT,CABLE-UPPER DECK	1	1	1
78	805-2	BUSHINGS, STEP	4	--	--

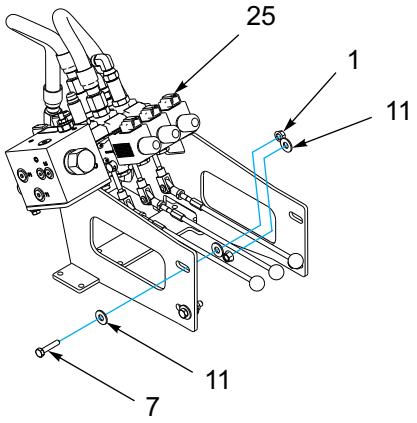
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Hydraulic Electrical Air

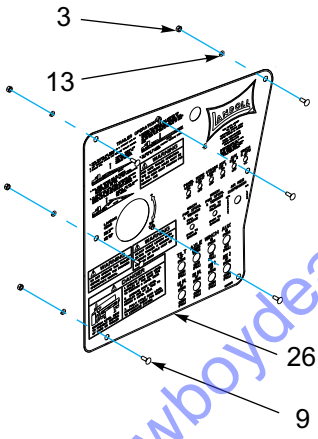


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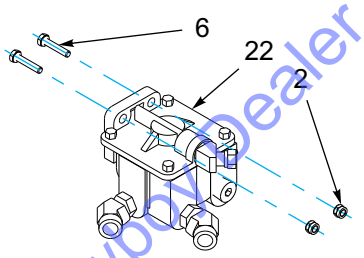
Figure 1-7: General Assembly (1 of 2)



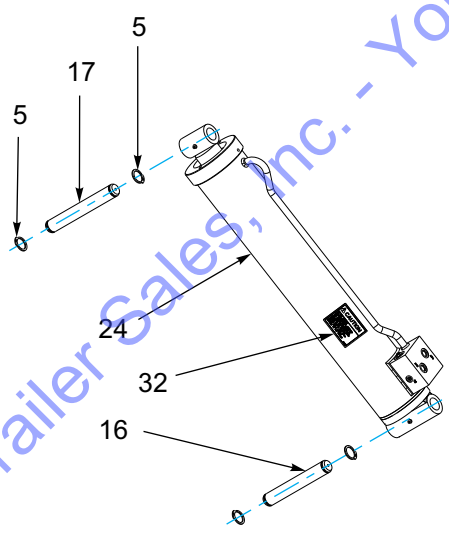
3-SPOOL VALVE ASSEMBLY



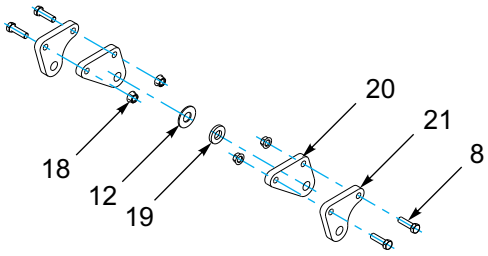
PLACARD ASSEMBLY



VALVE BOOSTER ASSEMBLY



CYLINDER ASSEMBLY



CYLINDER ANCHOR ASSEMBLY

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Figure 1-8: General Assembly (2 of 2)

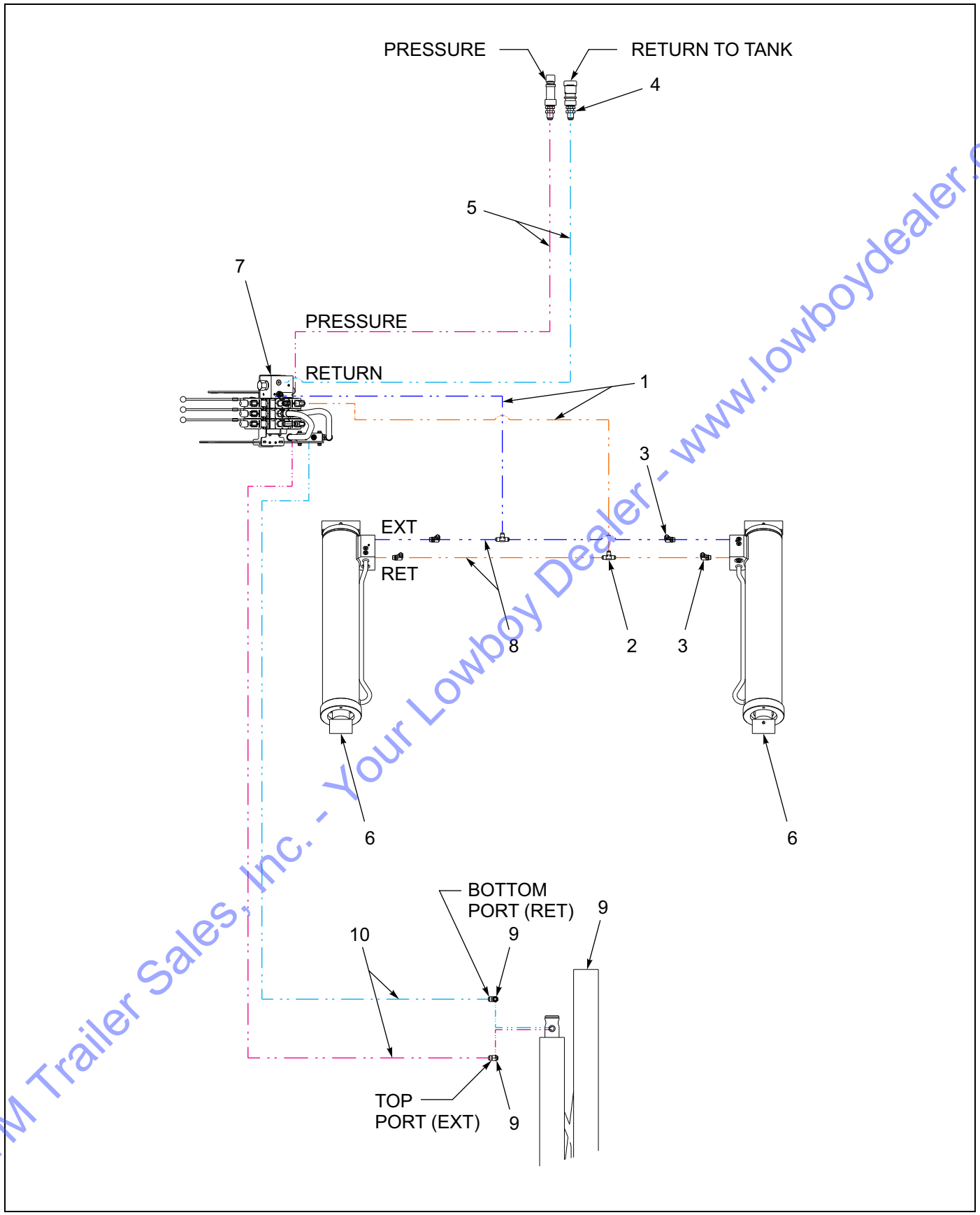
General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.					
	189560	HYD ELEC AIR 440A-48-102/108 RMT	*					
	189576	HYD ELEC AIR 440A-50CA-102 RMT		*				
	189584	HYD ELEC AIR 440A-53-102/108 RMT			*			
	190257	HYD ELEC AIR 455-48/50CA-102/108 RMT				*		
	190261	HYD ELEC AIR 455-48/50STD-102/108 RMT					*	
	190281	HYD ELEC AIR 455-53-102/108 RMT						*
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	14	14	16	14	16	17
2	1-512-010005-01	NUT, HEX SLFLKG, 1/4-20 GRB	2	2	2	2	2	2
3	1-512-010007-05	NUT, HEX 1/4-20	10	10	10	10	10	10
4	1-557-010362-54	PIN, COTTER 3/16 X 2-1/4	2	2	2	2	2	2
5	1-630-010021-01	RING, 1.5 RETAINING HD	8	8	8	8	8	8
6	1-654-010027-7	SCREW, HEX CAP, 1/4-20 UNC X 1-1/4	2	2	2	2	2	2
7	1-654-010051-07	SCREW, HEX CAP, 3/8-16 UNC X 1-1/2	2	2	2	2	2	2
8	1-654-010061-07	SCREW, HEX CAP, 3/4-10 UNC X 2-1/2 G5	4	4	4	4	4	4
9	1-654-010158-1	SCREW, RHD, SQ NCK,1/4-20 UNC	10	10	10	10	10	10
10	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	4	4	4	4	4	4
11	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	6	6	6	6	6	6
12	1-861-010032-29	WASHER, FLAT 1-1/4 W ZP/CD	1	1	1	1	1	1
13	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	10	10	10	10	10	10
14	2-181-010001	HOSE CLAMP	10	10	12	10	10	12
15	3-557-010031	PIN, CYL UNDERCARRIAGE	2	2	2	1	1	1
16	3-557-010033	PIN, CYL BUTT END	--	--	--	1	1	1
17	3-557-010470-01	PIN, 1-1/2 X 9-1/8 ZP	2	2	2	2	2	2
18	3-557-010470-02	PIN, 1-1/2 X 9-13/16 ZP	2	2	2	2	2	2
19	103841	NUT, FLG LNK, SERRATED 3/4-10 UNC	4	4	4	4	4	4
20	123150	WASHER, CYLINDER PIN 410	1	1	1	1	1	1
21	127422	ANCHOR, CYLINDER ADJ BOLT-ON	2	--	2	2	2	2
22	127691	ANCHOR, CYLINDER ADJ BOLT-ON, 435CA	--	2	--	--	--	--
23	141607	VALVE ASSY, AIR BOOST **(SEE PAGE 1-25)**	1	1	1	1	1	1
24	143163	CONNECTORS, FRONT SUB ASSY **(SEE PAGE 1-24)**	1	1	1	1	1	1
25	186807	CYL, 6 X 41, 30 STRK, CB **(SEE PAGE 1-23)**	2	2	2	2	2	2
26	186886	VALVE ASSY, 3 SP, 35GPM, **(SEE PAGE 1-26)**	1	1	1	1	1	1
27	186889	PLACARD, CONTROL PANEL, 400A	1	1	1	1	1	1
28	189276	PLUG, PLASTIC DOME, 2-1/2 HOLE	2	2	2	2	2	2
29	189280	PLUG, PLASTIC DOME, 3/4 HOLE	1	1	1	1	1	1
30	193912	PLATE, COVER, SWINGOUT LIGHT	2	2	2	2	2	2
31	189258	CYL ASSY, U/C 440A-50CA **(SEE PAGE 1-18)**	--	1	--	--	--	--
	189259	CYL ASSY, U/C 440A-53 **SEE PAGE 1-18)**	--	--	1	--	--	--
	189261	CYL ASSY, U/C 440-48/455-50CA **(SEE PAGE 1-18)**	1	--	--	--	1	1
	189267	CYL ASSY, U/C 455-48/50CA **(SEE PAGE 1-18)**	--	--	--	1	--	--

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Table provided for general use.

NOTES:



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Figure 1-9: Hydraulic System

Hydraulic System

ITEM	PART NO.	DESCRIPTION	QTY.		
	189560	HYD ELEC AIR 440A-48-102/108 RMT	*		
	189576	HYD ELEC AIR 440A-50CA-102 RMT	*		
	189584	HYD ELEC AIR 440A-53-102/108 RMT	*		
	190257	HYD ELEC AIR 455-48/50CA-102/108 RMT		*	
	190281	HYD ELEC AIR 455-53-102/108 RMT		*	
	190261	HYD ELEC AIR 455-48/50STD-102/108 RMT			*
1	1-397-010302070	HOSE ASSY, 1/2 X 70 SAE 37 STR 90	2	2	2
2	2033-8-8S	ADAPTER, TEE #8 TUBE	2	2	2
3	2062-8-8S	ADAPTER, 90 #8 O-RING TUBE	4	4	4
4	143163	CONNECTORS, FRONT SUB ASSY **(SEE PAGE 1-24)**	2	2	2
5	163352	HOSE ASSY, 3/4 X 180 SAE 37 STR 90	2	2	2
6	186807	CYLINDER, 6 X 30, 30 STROKE, CB **(SEE PAGE 1-23)**	2	2	2
7	186886	VALVE ASSY, 3 SP, 35 GPM, SOLE **(SEE PAGE 1-26)**	1	1	1
8	1410119	HOSE ASSY, 1/2 X 50 SAE 37 STR 90	4	4	4
9	189259	CYL ASSY, U/C 440A-53 **(SEE PAGE 1-18)**	REF	--	--
	189267	CYL ASSY, U/C 455A-48/50C **(SEE PAGE 1-18)**	--	REF	REF
10	189355	HOSE ASSY, 5/8 X 158 SAE 37 STR 90	--	2	--
	189356	HOSE ASSY, 5/8 X 144 SAE 37 STR 90	2	--	--
	189357	HOSE ASSY, 5/8 X 122 SAE 37 STR 90	--	--	2

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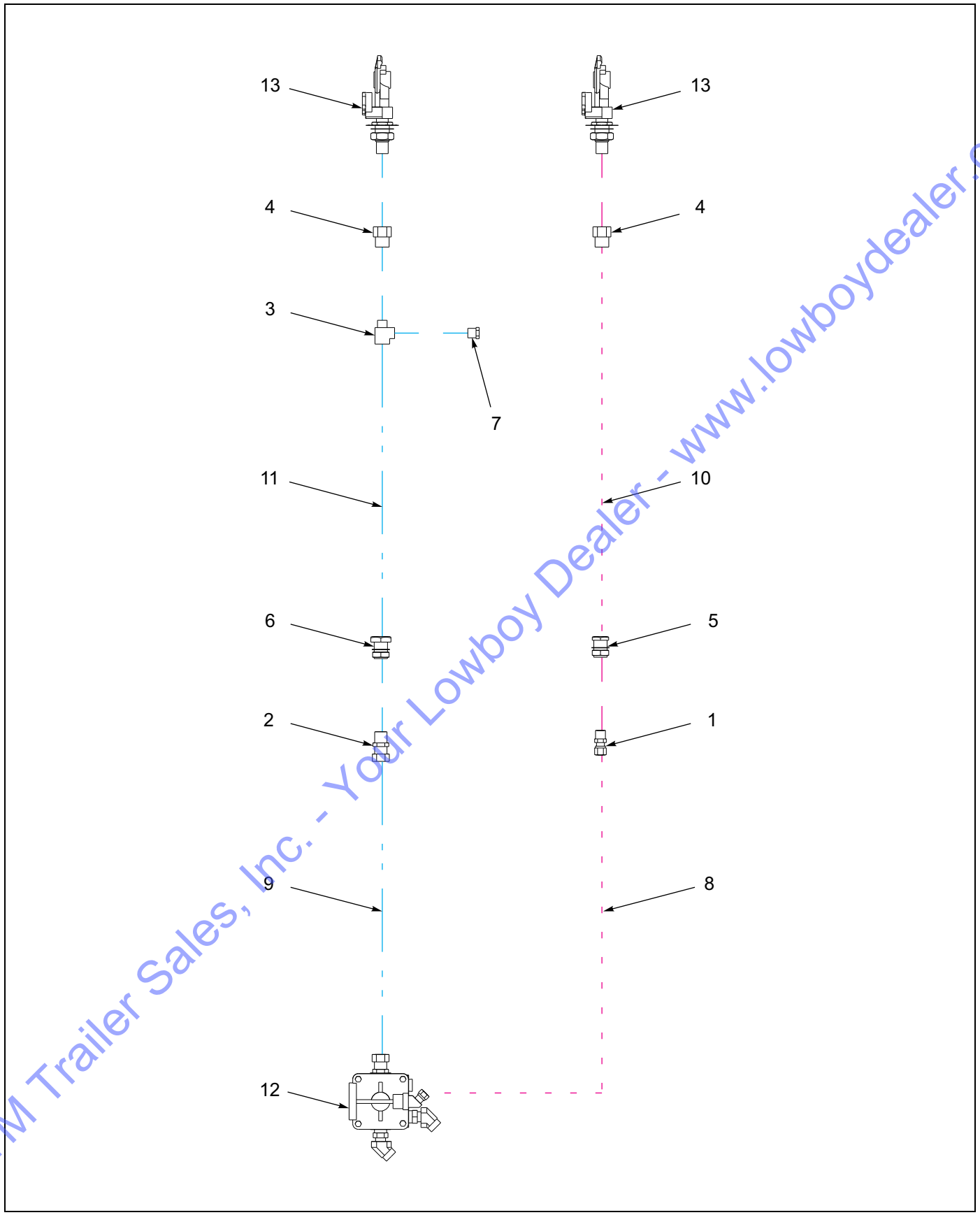


Figure 1-10: Air System

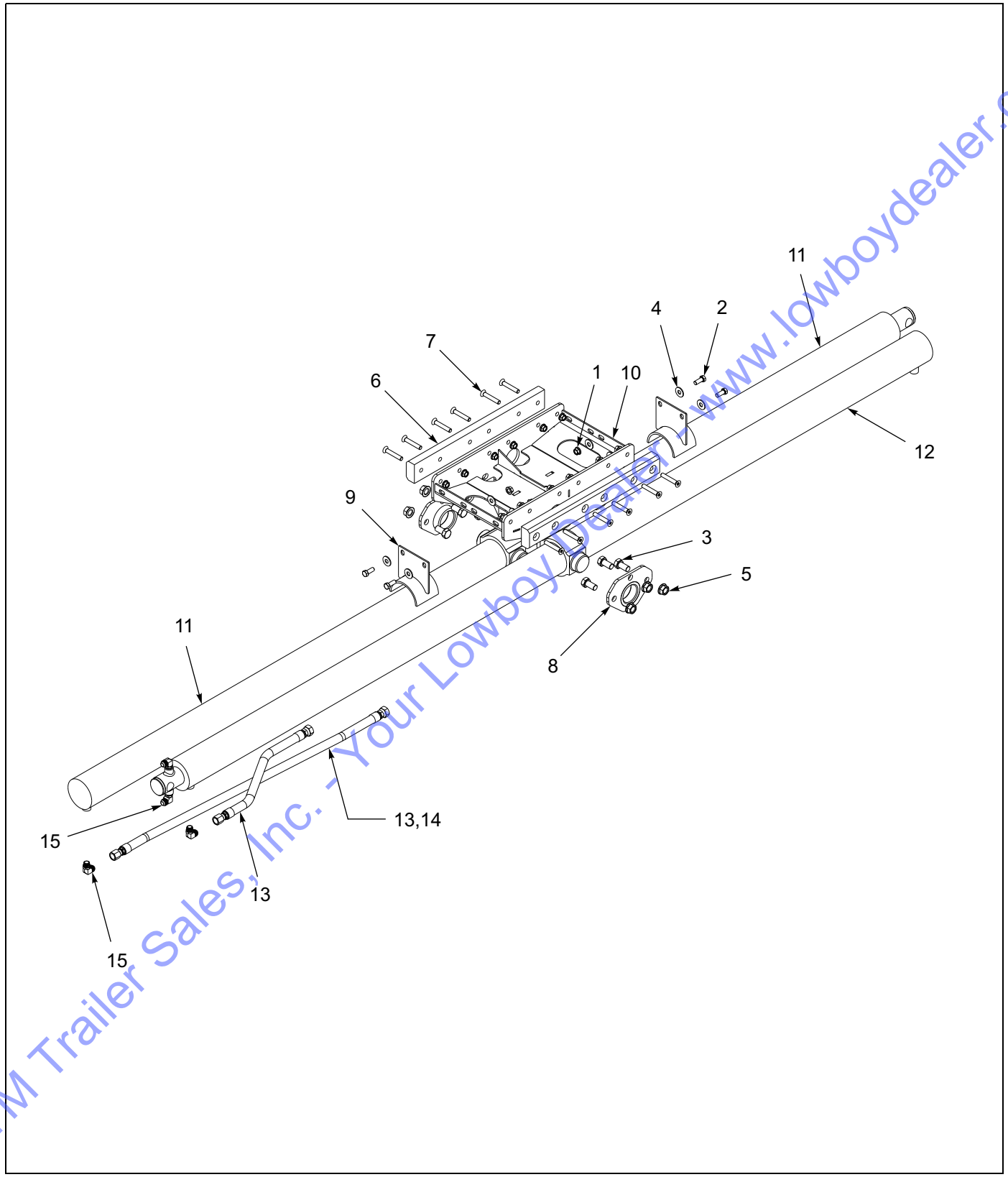
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Air System

ITEM	PART NO.	DESCRIPTION	QTY.
	189560	HYD ELEC AIR 440A-48-102/108 RMT	
	189576	HYD ELEC AIR 440A-50CA-102 RMT	
	189584	HYD ELEC AIR 440A-53-102/108 RMT	
	190257	HYD ELEC AIR 455-48/50CA-102/108 RMT	
	190261	HYD ELEC AIR 455-48/50STD-102/108 RMT	
	190281	HYD ELEC AIR 455-53-102/108 RMT	
1	1-297-010007-12	FITTING, AIR 3/8 TUBE TO 3/8 NPT	1
2	1-297-010007-16	FITTING, AIR 1/2 TUBE X 1/2 NPT	1
3	1-297-010018-03	FITTING, BRS PIPE, ST TEE 3/8	1
4	1-297-010021-05	FITTING, BRS PIPE, CPLG 1/2 X 3/8	2
5	1-297-010022-03	FITTING, AIR ANCHR CPLG, 3/8 NPT	1
6	1-297-010022-04	FITTING, AIR ANCHR CPLG, 1/2 NPT	1
7	1-297-010033-03	FITTING, BRASS PLUG, HEX 3/8 NPT	1
8	1-833-010002	TUBING NYLON, 3/8 OD	18
9	1-833-010003	TUBING NYLON, 1/2 OD	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)**	1
13	143163	CONNECTOR ASSY, FRONT SUB **(SEE PAGE 1-24)**	2

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Cylinders & Air Connectors



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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	--	--	--
	189264	CYLINDER, 4 X 100 HI FLOW **(SEE PAGE 1-20)**	--	--	--	1	--
	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	--	--
	189263	CYLINDER, 4 X 100 PORTED ROD HI FLOW **(SEE PAGE 1-21)**	--	--	--	1	1
	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
	189305	HOSE ASSY, 1/2 X 36, #10 - #12 JIC	--	--	2	--	--
14	189306	HOSE ASSY, 5/8 X 39, #10 - #12 JIC	--	--	--	--	1
	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

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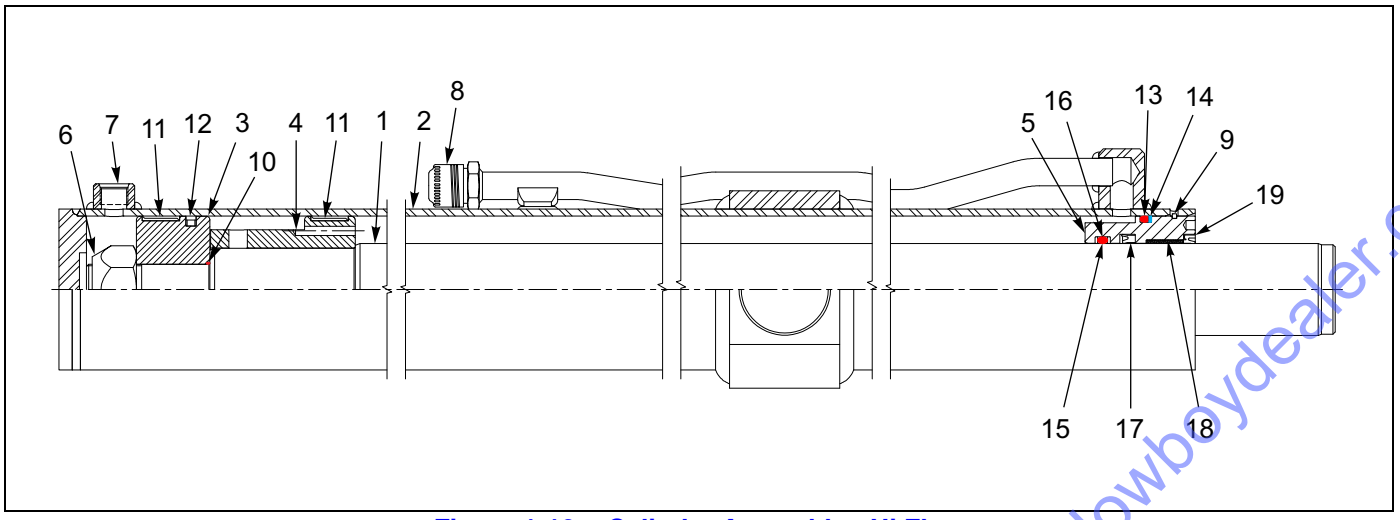


Figure 1-12: Cylinder Assembly - Hi Flow

Cylinder Assembly - Hi Flow

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.		
	189264	BW-0117	CYLINDER, HI FLOW, 4 X 100	*		
	189265	BW-0118	CYLINDER, HI FLOW, 4 X 126		*	
	186834	BU-0619	CYLINDER, HI FLOW, 4 X 138			*
1	-----	011300583	PISTON ROD	1	--	--
	-----	011300585	PISTON ROD	--	1	--
	-----	011300586	PISTON ROD	--	--	1
2	-----	061901169	BUTT & TUBE ASSEMBLY	1	--	--
	-----	061901161	BUTT & TUBE ASSEMBLY	--	1	--
	-----	061901149	BUTT & TUBE ASSEMBLY	--	--	1
3	-----	071900415	PISTON	1	1	1
4	-----	071900416	PISTON	1	1	1
5	-----	081900560	GLAND	1	1	1
6	-----	220000213	LOCKNUT	1	1	1
7	-----	200300040	SHIPPING PLUG	1	1	1
8	-----	200300628	JIC CAP	1	1	1
9	**	230007400	SQ RETAINING RING	1	1	1
10	**	240000028	O-RING	1	1	1
11	**	240011052	BEARING RING	2	2	2
12	**	240036003	TEFLON SEAL ASSEMBLY	1	1	1
13	**	240000342	O-RING	1	1	1
14	**	240061342	BU-WASHER	1	1	1
15	**	240000333	O-RING	1	1	1
16	**	240005333	BU-WASHER	2	2	2
17	**	240037015	U-CUP	1	1	1
18	-----	211300202	DX BUSHING	1	1	1
19	**	250014250	WIPER	1	1	1
20	**	270030400	INSTALLATION RING	1	1	1
		PMCK-BW-0117	** PACKING KIT **(ITEMS 9-17, 19 & 20)**	1		
		PMCK-BW-0118	** PACKING KIT **(ITEMS 9-17, 19 & 20)**		1	
		PMCK-BU-0619	** PACKING KIT **(ITEMS 9-17, 19 & 20)**			1

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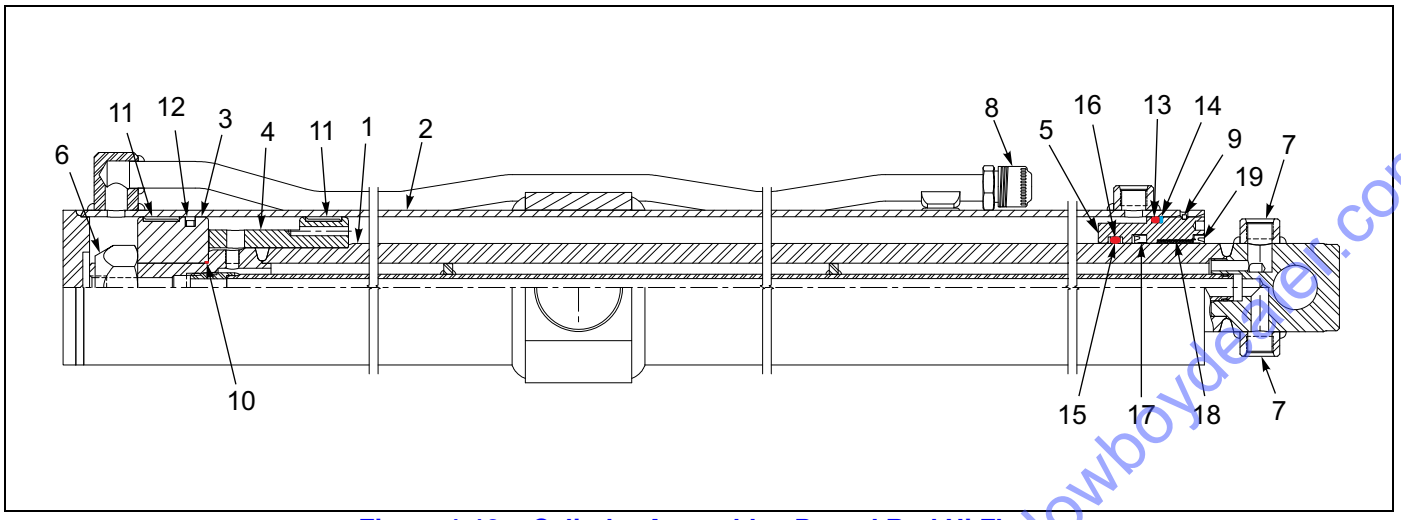


Figure 1-13: Cylinder Assembly - Ported Rod Hi Flow

Cylinder Assembly - Ported Rod Hi Flow

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.		
	189263	BW-0116	CYLINDER, PORTED ROD HI FLOW, 4 X 100	*		
	186835	BU-0618	CYLINDER, PORTED ROD HI FLOW, 4 X 126		*	
	189266	BW-0119	CYLINDER, PORTED ROD HI FLOW, 4 X 138			*
1	-----	041300159	PISTON TUBE ASSEMBLY	1	--	--
	-----	041300157	PISTON TUBE ASSEMBLY	--	1	--
	-----	041300158	PISTON TUBE ASSEMBLY	--	--	1
2	-----	061901162	BUTT & TUBE ASSEMBLY	1	--	--
	-----	061900151	BUTT & TUBE ASSEMBLY	--	1	--
	-----	061901160	BUTT & TUBE ASSEMBLY	--	--	1
3	-----	071900415	PISTON	1	1	1
4	-----	071900416	PISTON	1	1	1
5	-----	081900560	GLAND	1	1	1
6	-----	220000213	LOCKNUT	1	1	1
7	-----	200300040	SHIPPING PLUG	3	3	3
8	-----	200300628	JIC CAP	1	1	1
9	**	230007400	SQ RETAINING RING	1	1	1
10	**	240000028	O-RING	1	1	1
11	**	240011052	BEARING RING	2	2	2
12	**	240036003	TEFLON SEAL ASSEMBLY	1	1	1
13	**	240000342	O-RING	1	1	1
14	**	240061342	BU-WASHER	1	1	1
15	**	240000333	O-RING	1	1	1
16	**	240005333	BU-WASHER	2	2	2
17	**	240037015	U-CUP	1	1	1
18	-----	211300202	DX BUSHING	1	1	1
19	**	250014250	WIPER	1	1	1
20	**	270030400	INSTALLATION RING	1	1	1
		PMCK-BW-0116	** PACKING KIT **(ITEMS 9-17, 19 & 20)**	1		
		PMCK-BU-0618	** PACKING KIT **(ITEMS 9-17, 19 & 20)**		1	
		PMCK-BW-0119	** PACKING KIT **(ITEMS 9-17, 19 & 20)**			1

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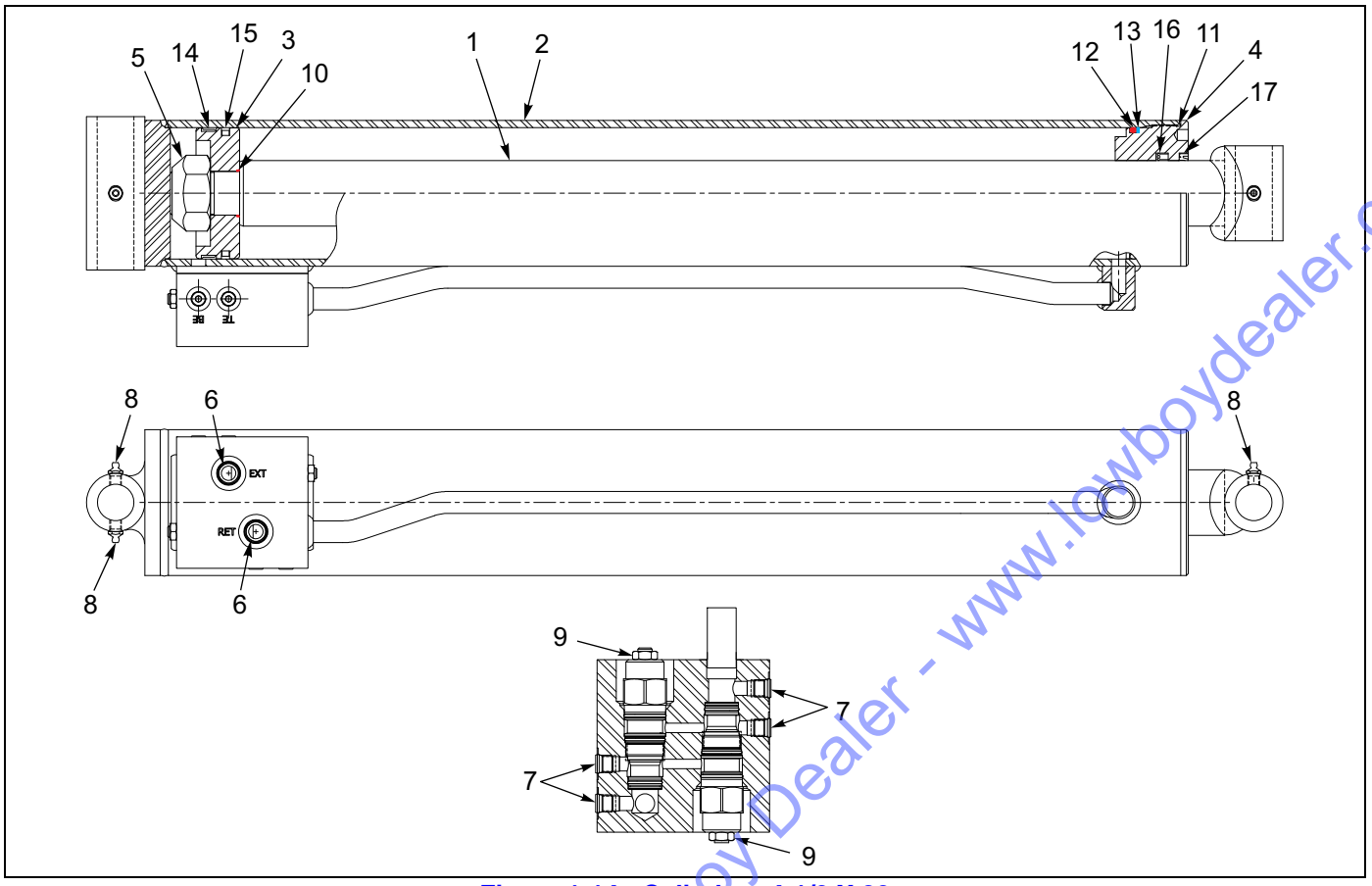


Figure 1-14: Cylinder - 4-1/2 X 30

Cylinder - 4-1/2 X 30

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	195308	BW-0492	CYLINDER, 4-1/2 X 30, 30 STROKE, CB	
1	-----	021200041	PISTON ROD ASSEMBLY	1
2	-----	062000336	BUTT & TUBE ASSEMBLY	1
3	-----	072000125	PISTON	1
4	-----	082000123	GLAND	1
5	-----	220000214	LOCKNUT	1
6	-----	200300040	SHIPPING PLUG	2
7	-----	200026004	ZERO LEAK PLUG	4
8	-----	270010002	GREASE ZERK	3
9	197587	270006333	COUNTERBALANCE VALVE	1
10	**	240000029	O-RING	1
11	**	240000156	O-RING	1
12	**	240000346	O-RING	1
13	**	240061346	BU-WASHER	1
14	**	240011007	BEARING RING	1
15	**	240036009	TEFLON SEAL ASSY	1
16	**	240020011	U-CUP	1
17	**	250014225	WIPER	1
				1
		PMCK-BW-0492	**PACKING KIT **(ITEMS 10-17)**	1

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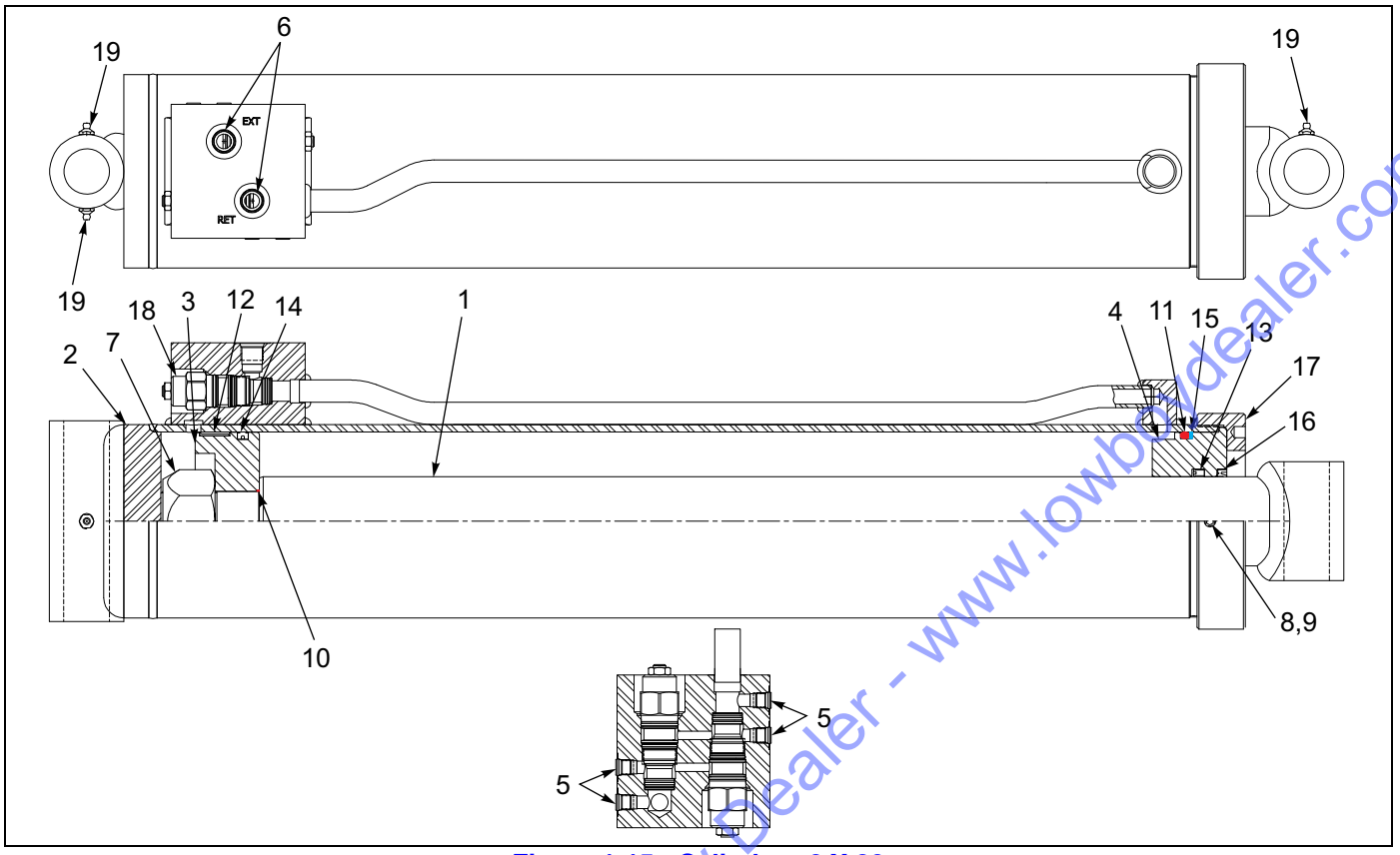


Figure 1-15: Cylinder - 6 X 30

Cylinder - 6 X 30

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	186807	BU-0573	CYLINDER, 6 X 41, 30 STROKE, CB	
1	-----	021500077	PISTON ROD ASSEMBLY	1
2	-----	062300714	BUTT & TUBE ASSEMBLY	1
3	-----	072300150	PISTON	1
4	-----	082300208	GLAND	1
5	-----	200026004	ZERO LEAK PLUG	4
6	-----	200300040	SHIPPING PLUG	1
7	-----	220000218	LOCKNUT	1
8	-----	220000701	FLAT POINT SET SCREW	1
9	-----	220000853	NYLON LOCK	1
10	**	240000033	O-RING	1
11	**	240000433	O-RING	1
12	**	240011084	PISTON BEARING RING	1
13	**	240020017	SYMMETRICAL U-CUP	1
14	**	240060433	CROWN SEAL	1
15	**	240061433	STATIC BU-WASHER	1
16	**	250014300	CANNED WIPER	1
17	-----	262300011	GLAND CAP	1
18	197587	270006333	COUNTERBALANCE VALVE	2
19	-----	270010002	GREASE ZERK	3
		PMCK-BU-0573	**PACKING KIT **(ITEMS 10-16)**	1

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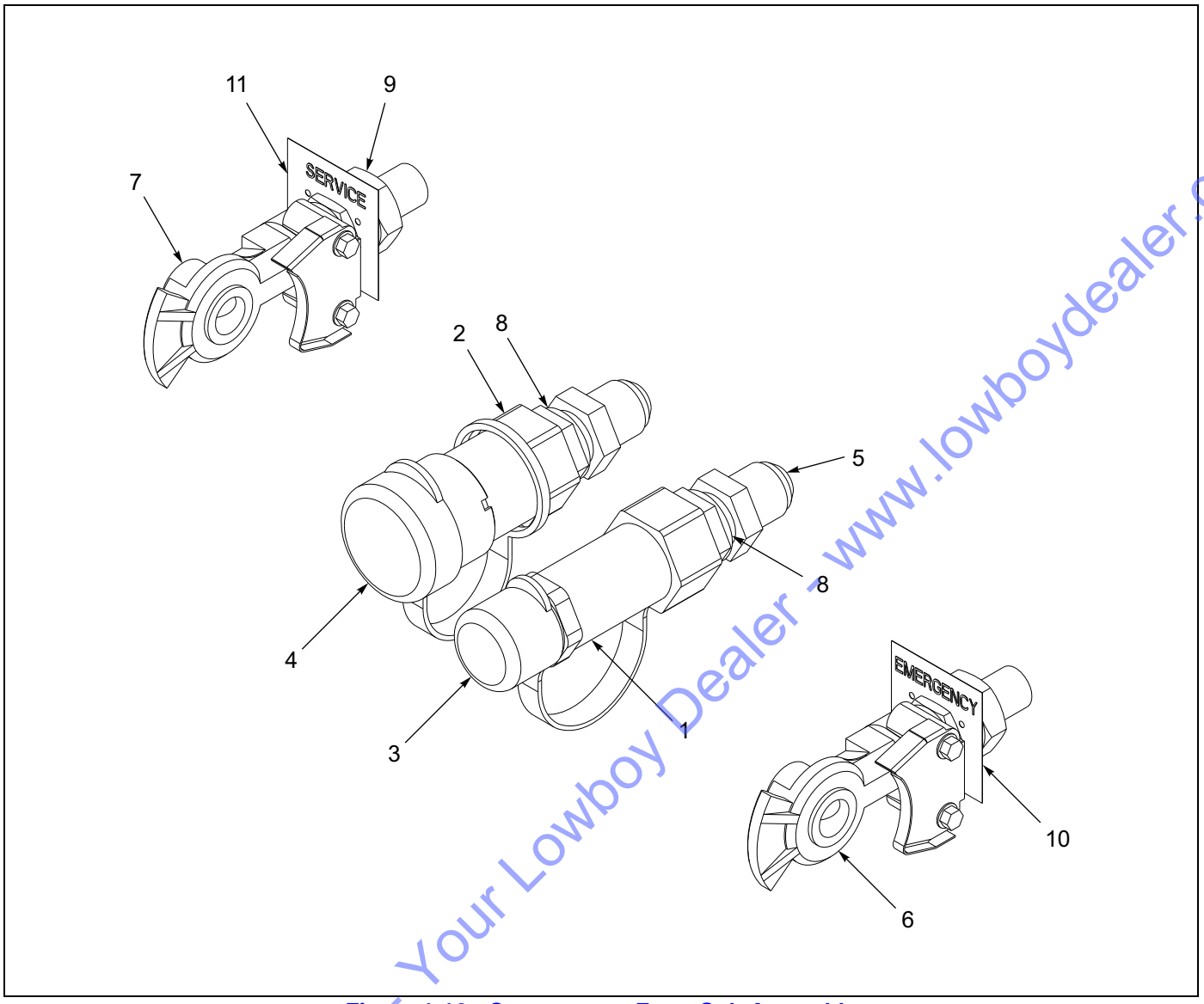


Figure 1-16: Connectors - Front Sub Assembly

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

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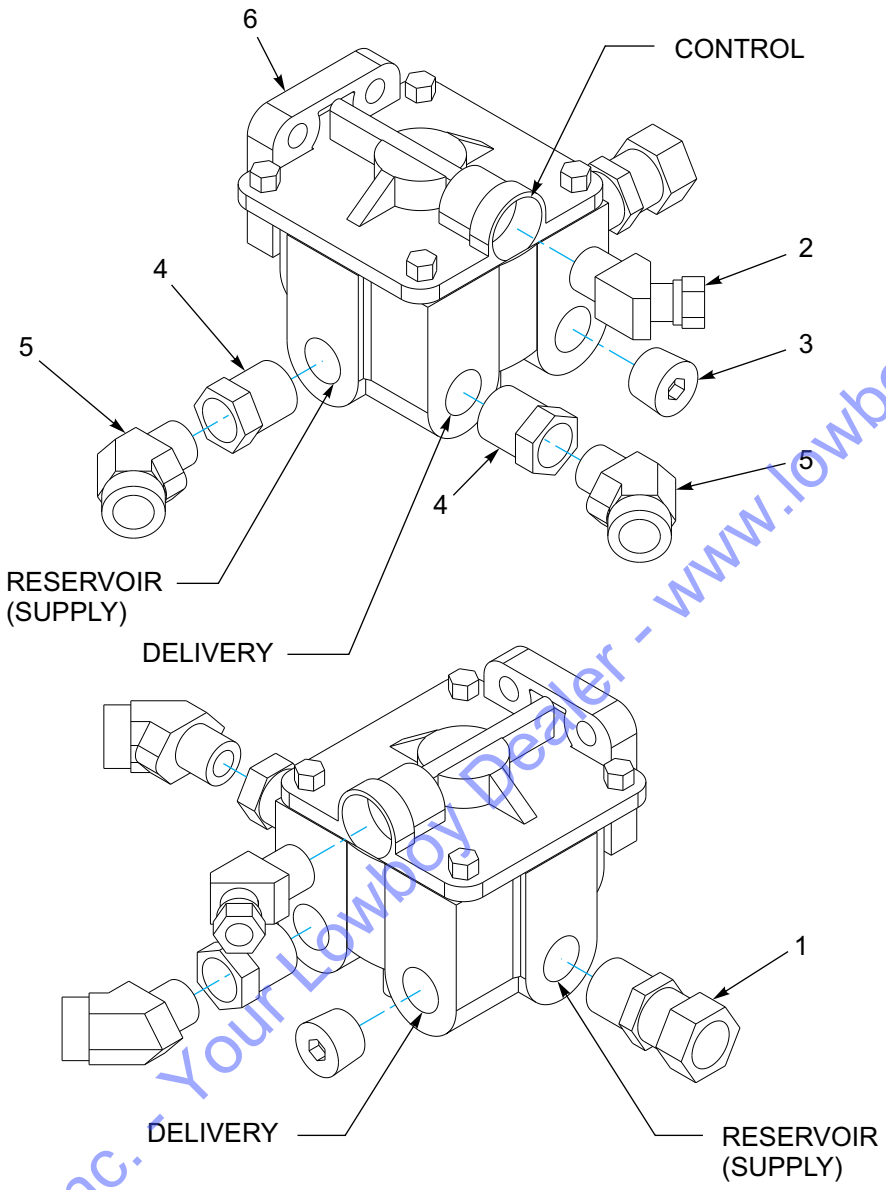


Figure 1-17: Valve Assembly - Air Booster

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

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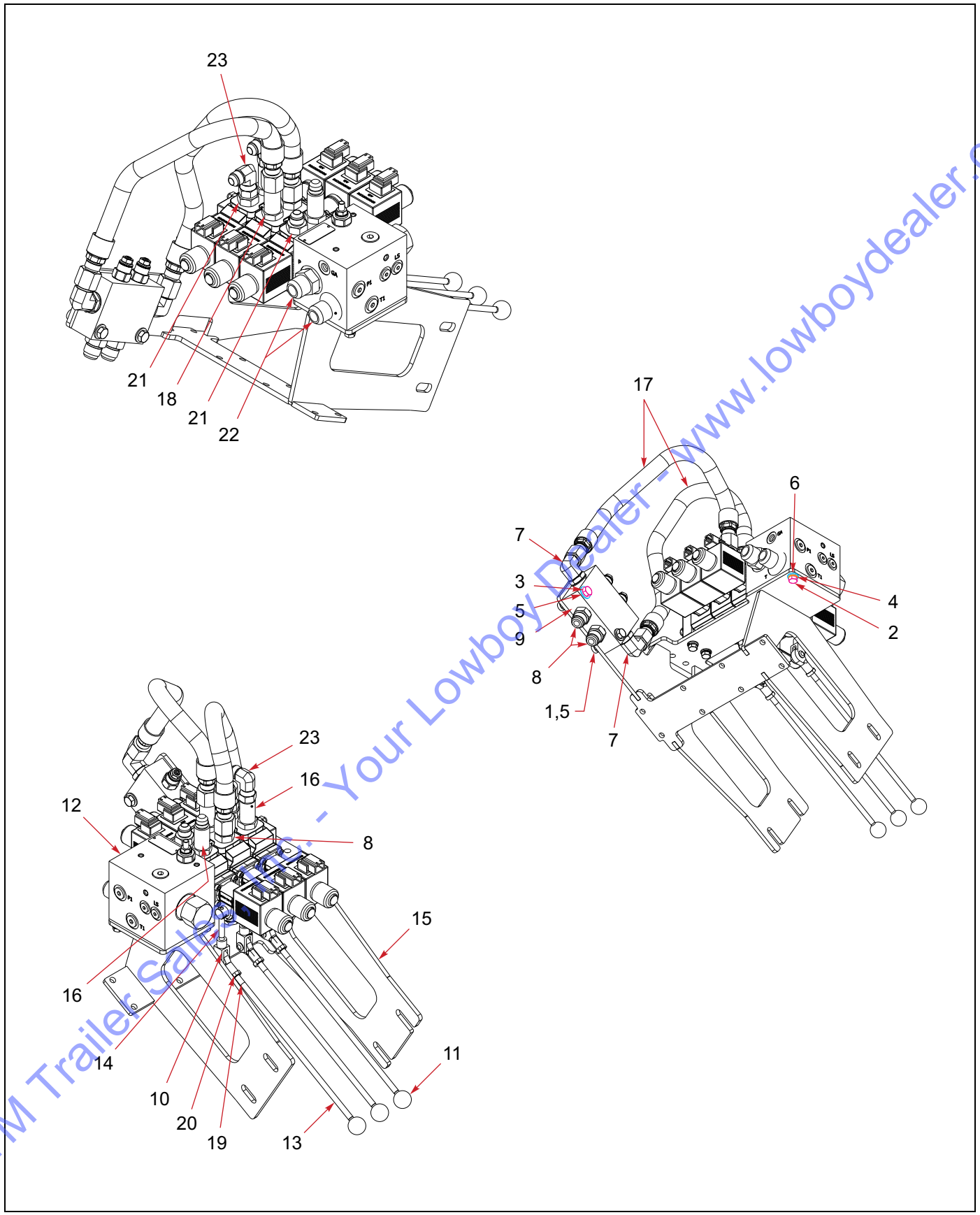


Figure 1-18: Valve Assembly - Three Spool

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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	184585	VALVE, DUAL COUNTERBALANCE, 30 GPM	1
10	186875	CLEVIS JOINT, ROD ENDS M8 X 1.25	3
11	186877	KNOB, 1” ROUND, M8 X 1.25 THD	3 REF
12	186885	VALVE, 3 SPOOL SOLENOID, 35 GMP **(SEE PAGE 1-28)**	1
13	186878	ROD HANDLE, M8 X 1.25 ENDS	3 REF
14	186902	STUD, M8 X 1.25 X 65MM, DBLE THD	3
15	189256	WLDMT, CONTROL VALVE MOUNT	1
16	189285	ADAPTER, STR LONG, #10 ORB, #8M JIC	2
17	189299	HOSE ASSY, 5/8 X 19 SAE 37, #10 STR	2
18	189301	ADAPTER, STR LONG, #10 ORB, #10M JIC	1
19	193910	STUD, M8-1.25 X 50MM, DBLE THD	3
20	193911	COUPLING NUT, M8-1.25 X 24MM ZINC	3
21	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
22	202702-12-12S	ADAPTER, #10 O-RING #12 TUBE	2
23	2071-8-8S	ADAPTER, 90 #8 FLR SWIVEL, #8 JIC	2

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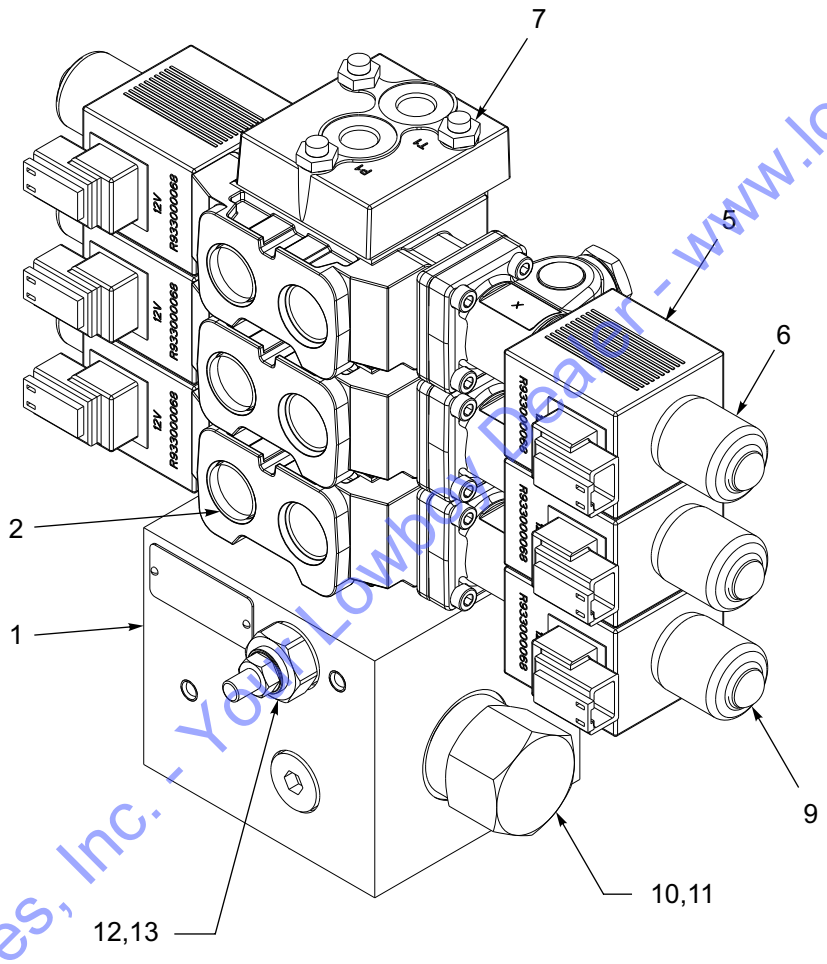


Figure 1-19: Three Spool Solenoid Valve

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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	1
6	193401	RUBBER BOOT	1
7	193402	BOLT KIT	1
8	193442	VALVE SECTION SEAL KIT **(NOT SHOWN)**	1
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

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Electrical

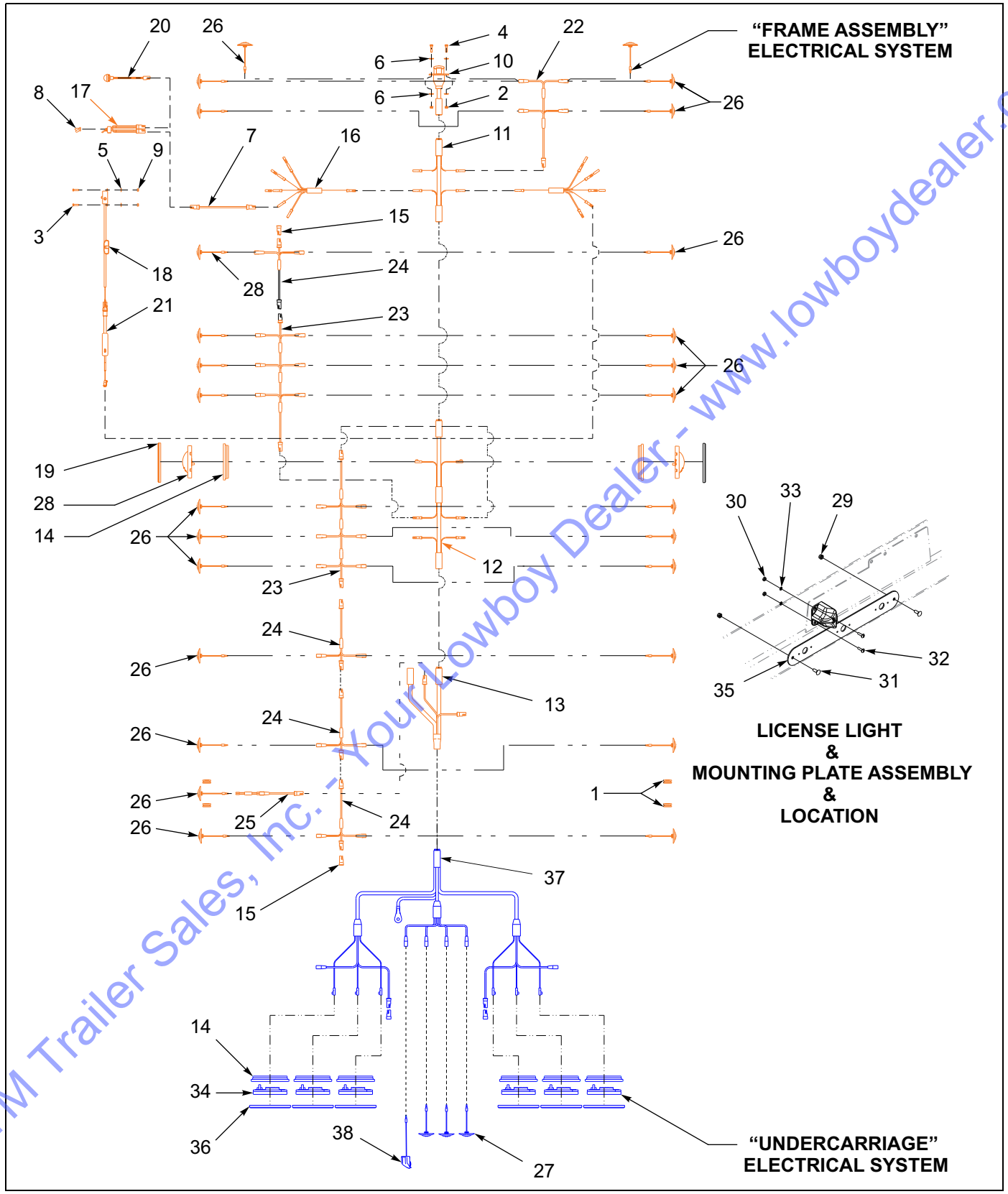


Figure 1-20: Electrical System

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Electrical System

ITEM	PART NO.	DESCRIPTION	QTY
	189560	HYD ELEC AIR 440A-48-102/108 RMT	
	189576	HYD ELEC AIR 440A-50CA-102 RMT	
	189584	HYD ELEC AIR 440A-53-102/108 RMT	
	189600	SUSPENSION, 440A 102 SB LED	
	189602	SUSPENSION, 440A-CA 102 SB LED	
	189637	SUSPENSION, 440A 102 SB 62K D/L	
	189639	SUSPENSION, 440A-CA 102 SB 62K D/L	
1	1-343-010006	GROMMET, 7/8 ID X 1/4 GW X 1-1/4	4
2	1-512-010005-03	NUT, HEX SLFLKG, 5/16-18 UNC, GRB	2
3	1-654-010047-06	SCREW, HEX 1/4-20 UNC X 1 GR5	2
4	1-654-010049-06	SCREW, HEX 5/16-18 UNC X 1-1/4 GR5	2
5	1-861-010032-07	WASHER, FLAT ZP/CD, 1/4 W	2
6	1-861-010032-09	WASHER, FLAT ZP/CD, 5/16W	4
7	3-368-010252	HARNESS ASSY, BKHD LIGHT EXT	1
8	81264	RUBBER BOOT FOR ELECT SWITCH	1
9	108417	NUT, SPIRALOCK 1/4-20 HEX FLANGE	2
10	143100	HARNESS, 7 WAY RECEPTACLE	1
11	143101	HARNESS, FRONT MAIN GROTE	1
12	143102	HARNESS, BED MAIN GROTE	1
13	143103	HARNESS, E-CHAIN GROTE	1
14	143114	GROMMET, OVAL GROTE	8
15	143121	DUMMY PLUG, MALE/FEMALE BULLET	1
16	150093	HARNESS, 5 AUX BRANCHES GROTE	2
17	150117	TOGGLE SWITCH, SEALED, S.P.S.T	1
18	168648	RECEIVER/TRANS MACRO KAR SL AX **(SEE PAGE 1-32)**	1
19	180570	COVER, CHROME OBLONG GROMMET	2
20	185059	LIGHT, LED COURTESY, GROTE	1
21	186882	HARNESS, CONTROL VALVE, DUETSCH	1
22	187855	HARNESS MARKER, UPR DECK	1
23	187856	HARNESS MARKER, MID DECK	2
24	187857	HARNESS MARKER, ADDITION	4
25	187858	HARNESS, ABS LAMP MICRONOVA	1
26	187863	LIGHT, YEL LED,.75CL/MK CLEAR CB	25
27	187864	LIGHT, RED LED,.75CL/MK CLEAR CB	5
28	187868	LIGHT, MID TURN LED, CLEAR LENS	2
29	1-512-010005-01	NUT, HEX LOCK, 1/4-20 GRB	2
30	1-512-010007-03	NUT, HEX #10-24 UNC, GR2	2
31	1-654-010158-1	SCREW, RDH SQ NCK, #10-24 X 3/4	2
32	1-656-010003051	SCREW, RDH HD MACH, #10-24 X 3/4	2
33	1-861-010034-07	WASHER, LKG HLCL SPR, #10	2
34	179902	LIGHT S/T/T RED, CLEAR LENDS GROTE	6
35	179906	PLATE, MTG MICRO ID LIGHTS	1
36	180570	COVER, CHROME OBLONG GROMMET	6
37	187859	HARNESS, BUMPER MICRONOVA GROTE	1
38	187860	LIGHT ASSY, LICENSE LED GROTE	1

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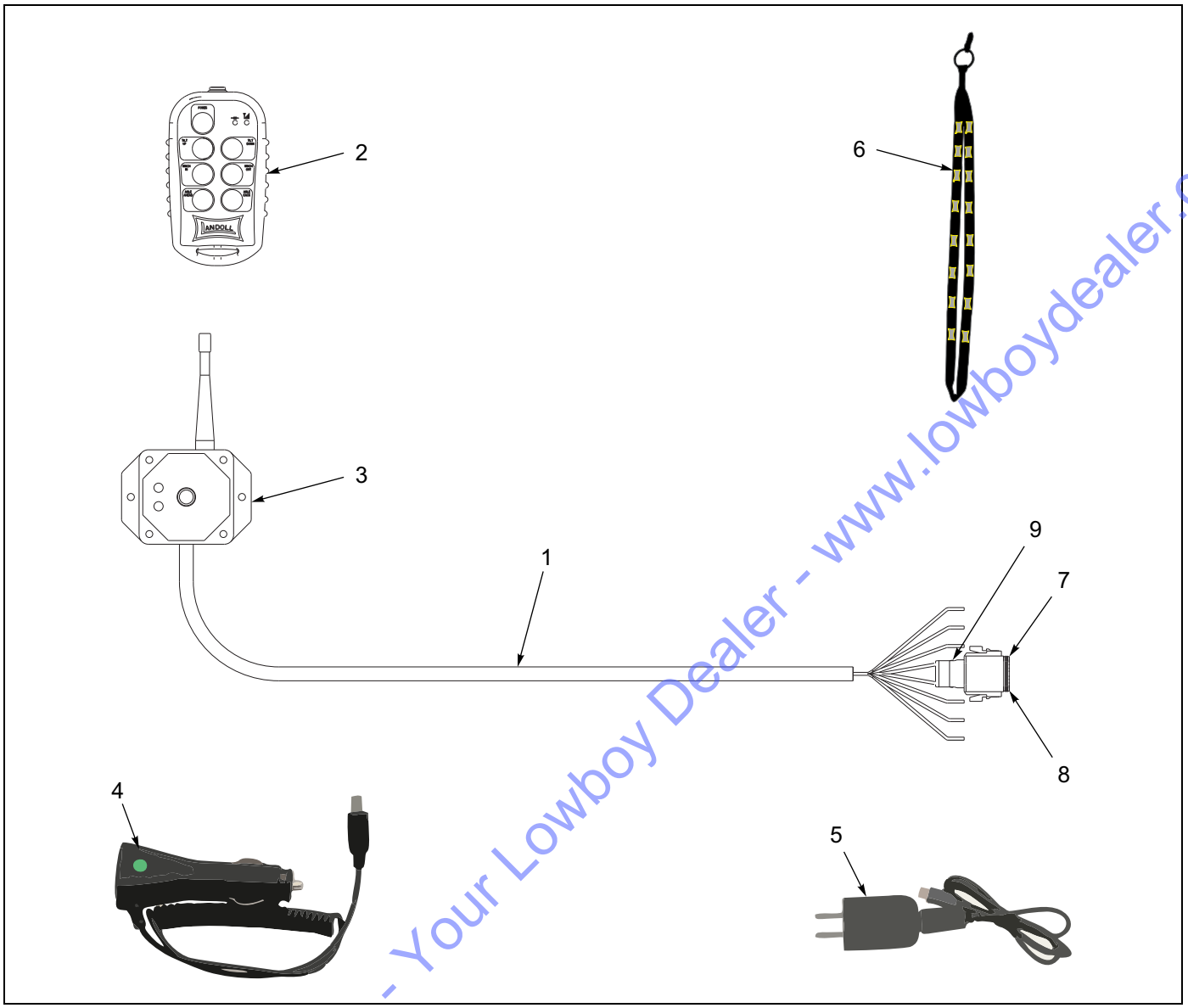


Figure 1-21: Receiver Transmitter - Macro Kar LS AX

Receiver Transmitter - Macro Kar LS AX

ITEM	PART NO.	DESCRIPTION	QTY.
	168648	RECEIVER TRANSMITTER, MACRO KAR, SL AX	REF
1	168974	REMOTE, KAR-TECH SLIDE AX **(ITEMS 2-5)**	1
2	168975	MACRO TRANSMITTER W/ DECAL	1
3	143126	MINI AND MACRO RECEIVER, 6 FUNCTION W/ TEACH BUTTON	1
4	168976	CAR CHARGER 12V TO MICRO USB	1
5	168982	WALL CHARGER 120V TO MICRO USB	1
6	168979	LANYARD, LANDOLL	1
7	622-2967-010	PLUG, 8 POS, FEMALE	1
8	622-2967-015	SOCKET, 16-18 AWG, SOLID	8
9	622-2967-026	WEDGE, 8 POS, PLUG	1
10	197460	REPLACEMENT BATTERY, KAR-TECH MACRO **(NOT SHOWN)**	1

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Undercarriage

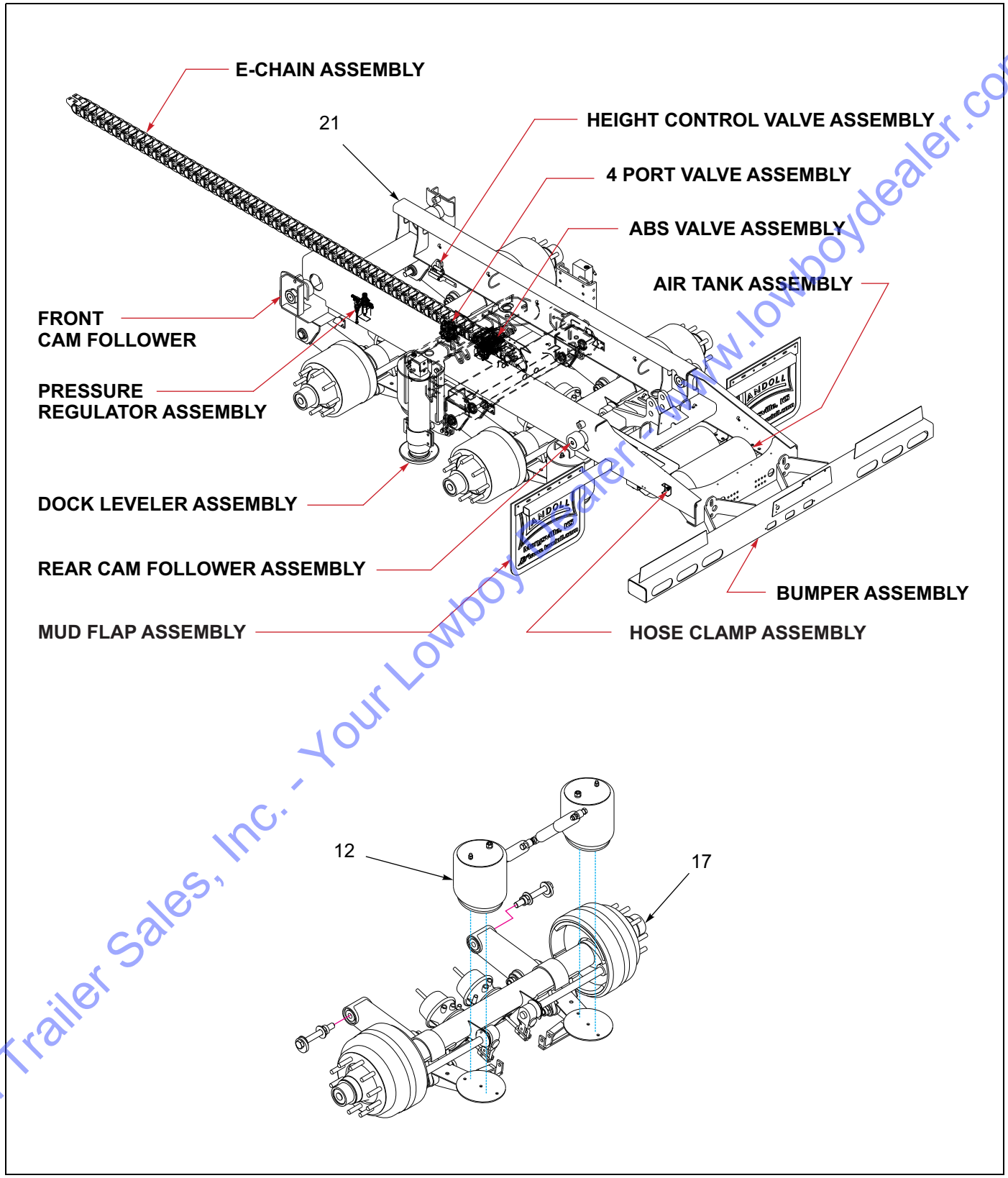
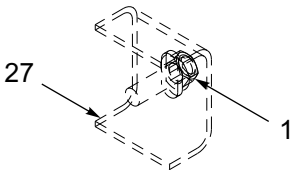
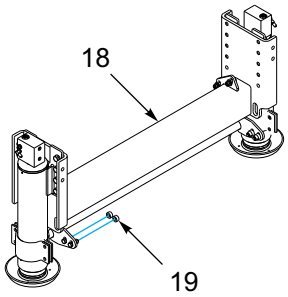


Figure 1-22: General Items - 440A (1 of 2)

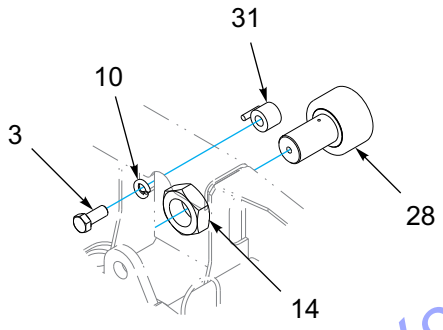
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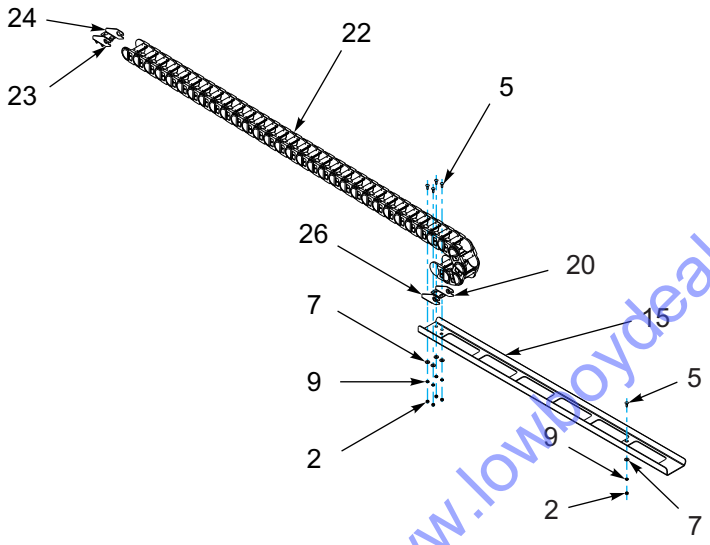
CLAMP ASSEMBLY



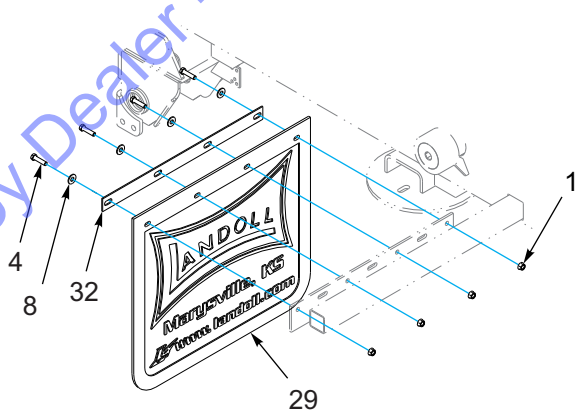
DOCK LEVELER ASSEMBLY



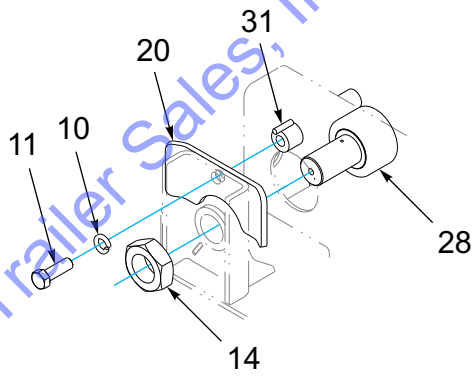
REAR CAM FOLLOWER ASSEMBLY



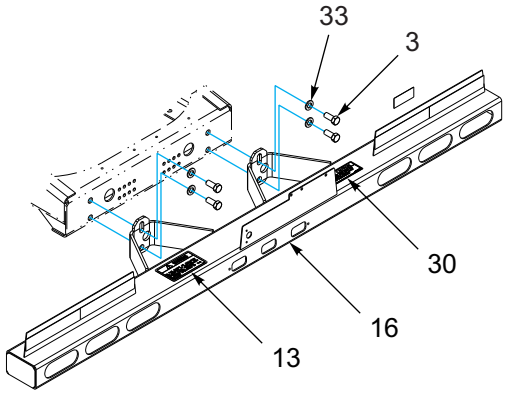
E-CHAIN ASSEMBLY



MUDFLAP ASSEMBLY



FRONT CAM FOLLOWER ASSEMBLY



BUMPER ASSEMBLY

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

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General Items - 440A

ITEM	PART NO.	DESCRIPTION	QTY.			
	189600	SUSPENSION, 440A 102 SB LED	*			
	189602	SUSPENSION, 440A-CA 102 SB LED		*		
	189637	SUSPENSION, 440A 102 SB 62K D/L			*	
	189639	SUSPENSION, 440A-CA 102 SB 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 1-55)**	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 1-114)**	--	--	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

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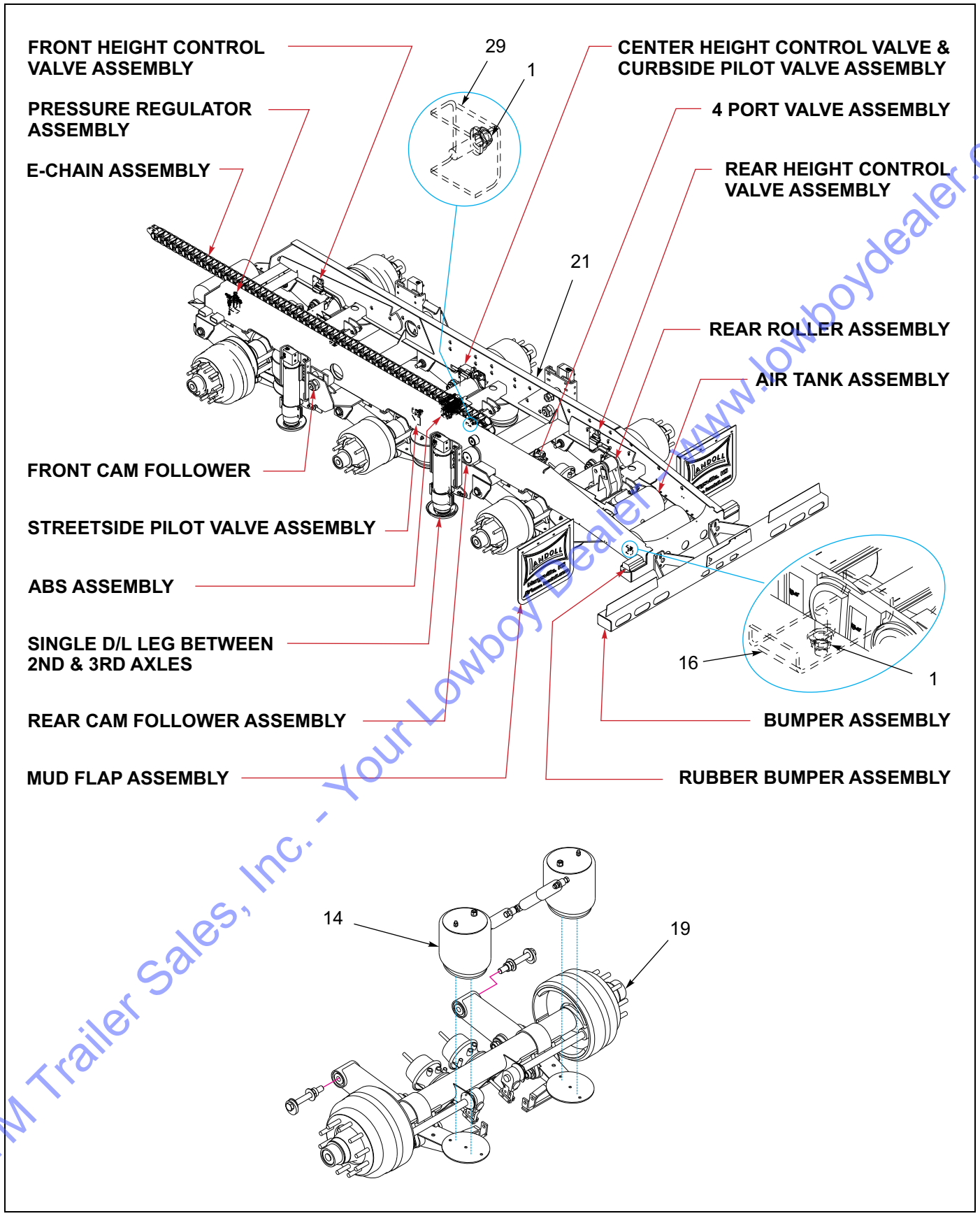


Figure 1-24: General Items - 455A Spring Brake (1 of 3)

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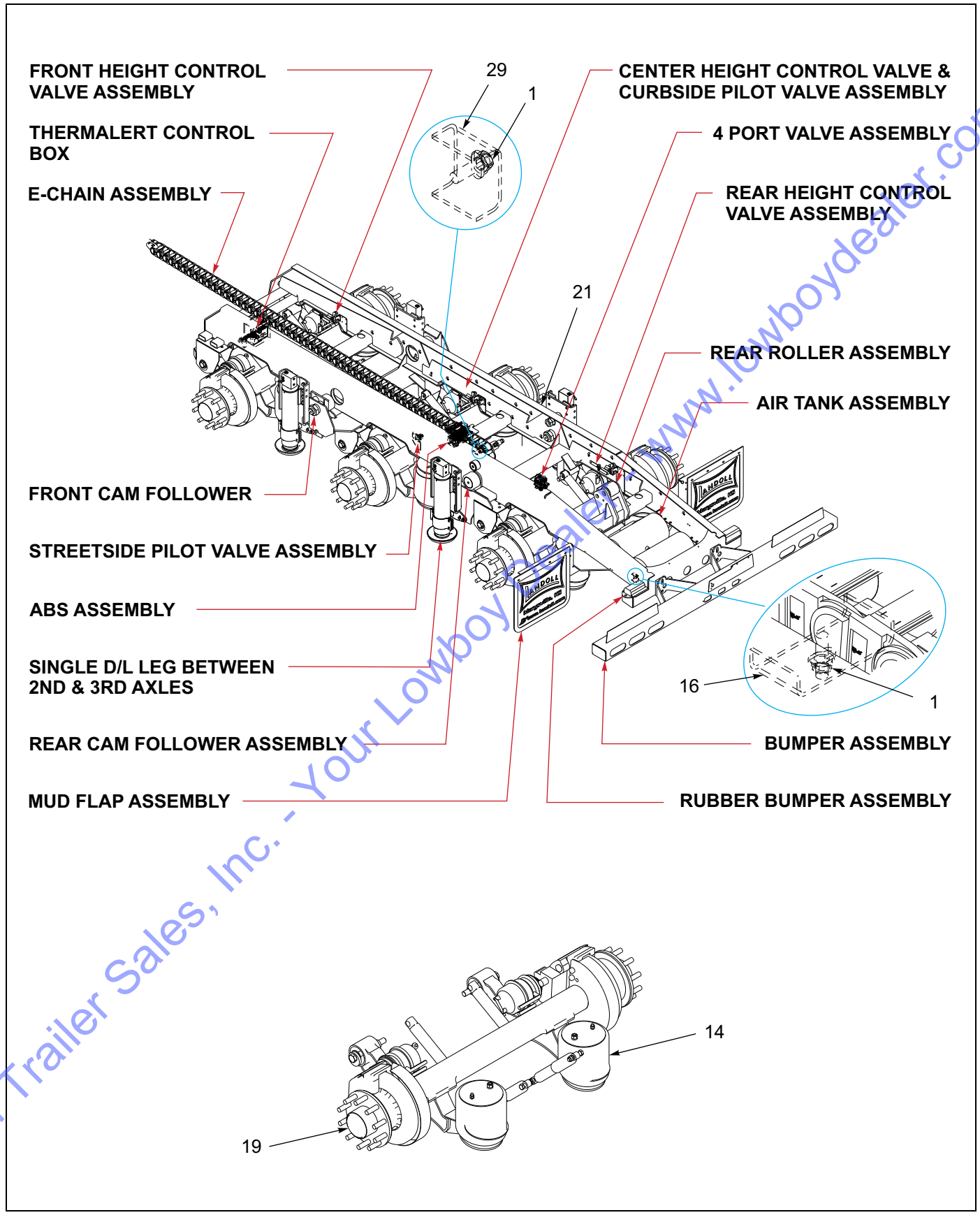
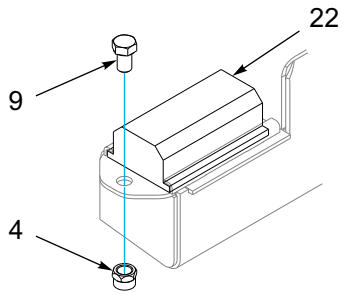
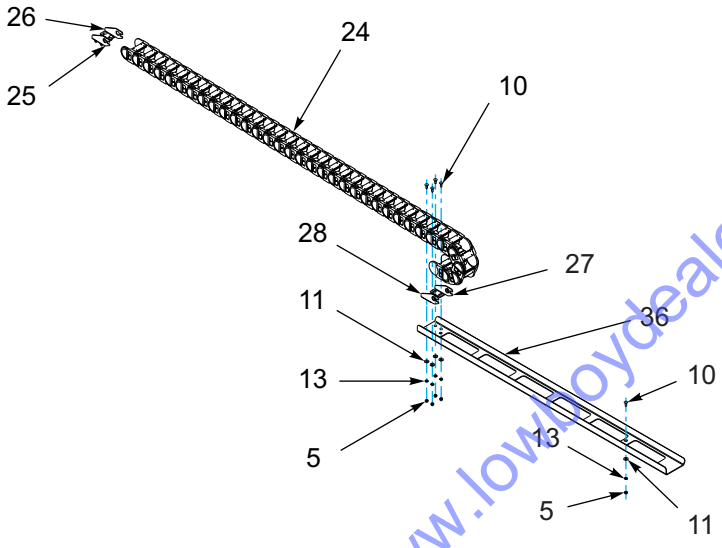


Figure 1-25: General Items - 455A Disc Brake (2 of 3)

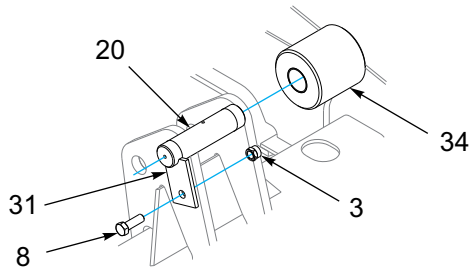
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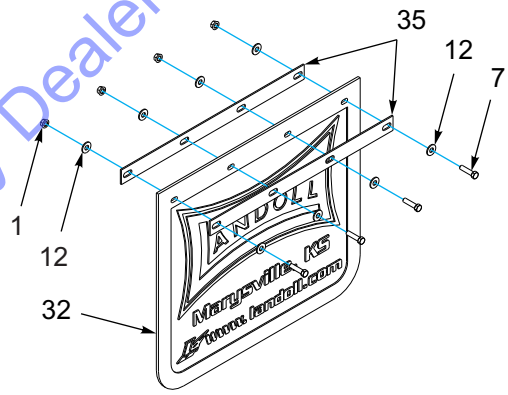
RUBBER BUMPER ASSEMBLY



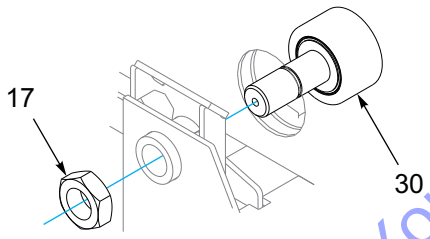
E-CHAIN ASSEMBLY



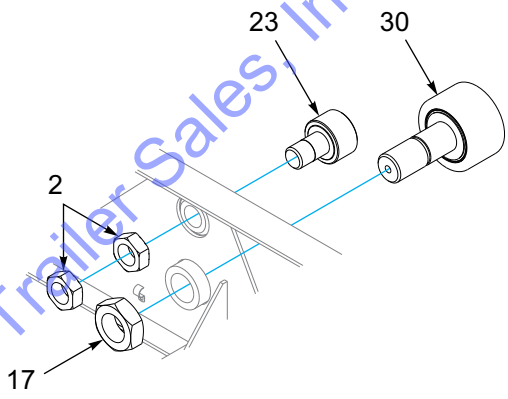
REAR ROLLER ASSEMBLY



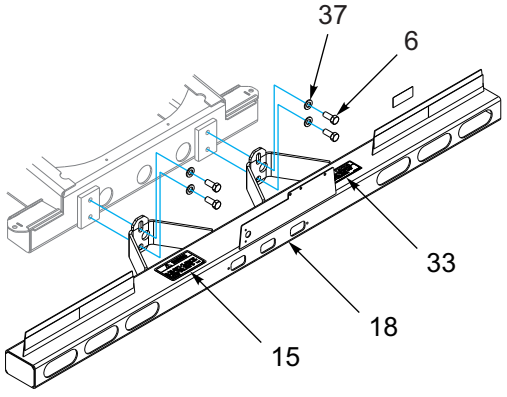
MUDFLAP ASSEMBLY



FRONT CAM FOLLOWER ASSEMBLY



REAR CAM FOLLOWER ASSEMBLY



BUMPER ASSEMBLY

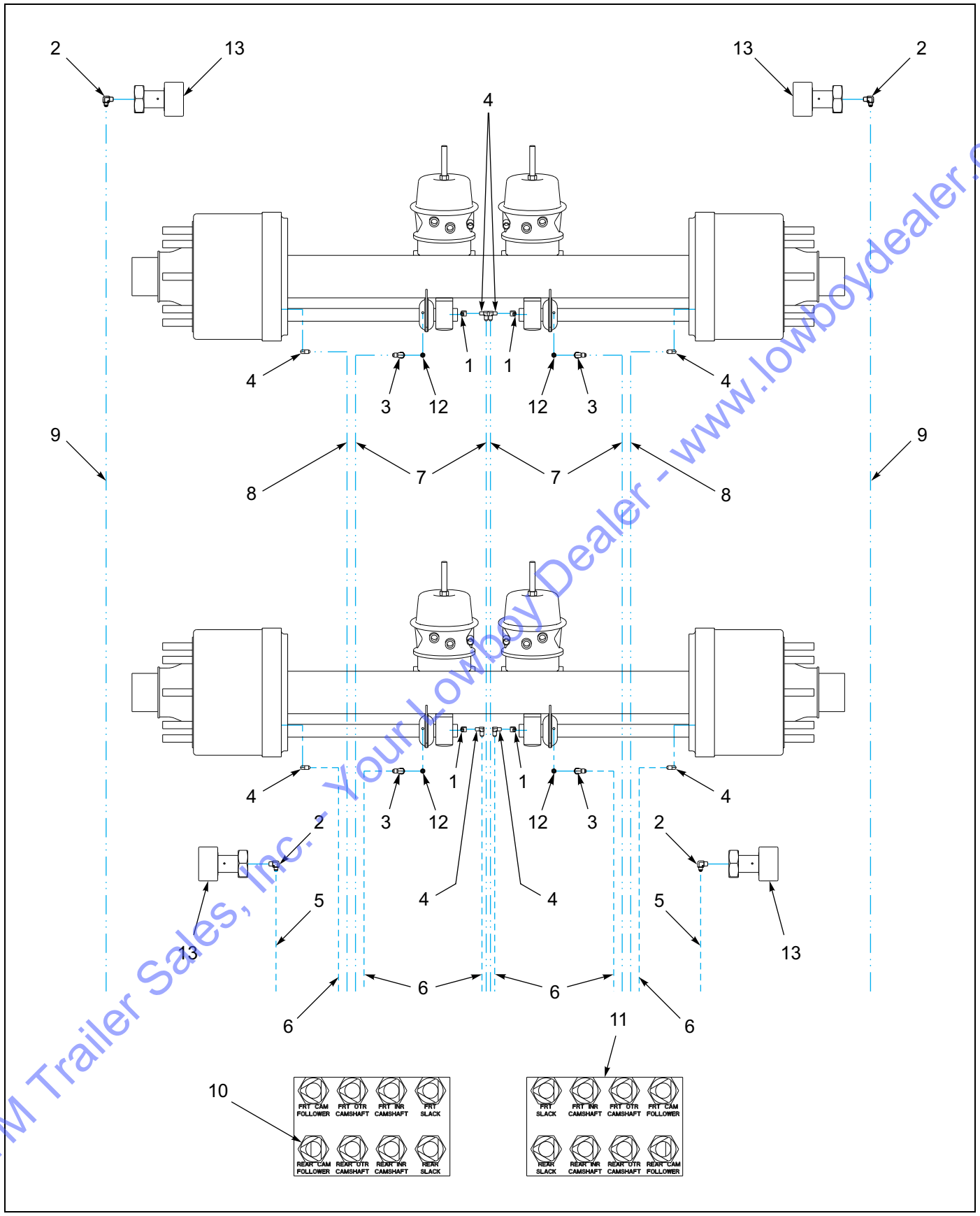
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Figure 1-26: General Items - 455A (3 of 3)

General Items - 455A

ITEM	PART NO.	DESCRIPTION	QTY.		
	190329	SUSPENSION, 455A-102 SB LED	*		
	190331	SUSPENSION, 455A-CA 102 SB LED		*	
	190362	SUSPENSION, 455A-108 DSK BK TIS			*
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	SCERW, 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 1-54)**	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	--
	175754	AXLE, 16.5” DISK SPG BK, TIS 75-1/2 **(SEE PAGE 1-58)**	--	--	3
20	121686	PIN, 1-1/2 X 6-1/4	1	1	1
21	128670	SUSPENSION, WLDMT US410	1	--	--
	171942	SUSPENSION, WLDMT 455-50CA	--	1	--
	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

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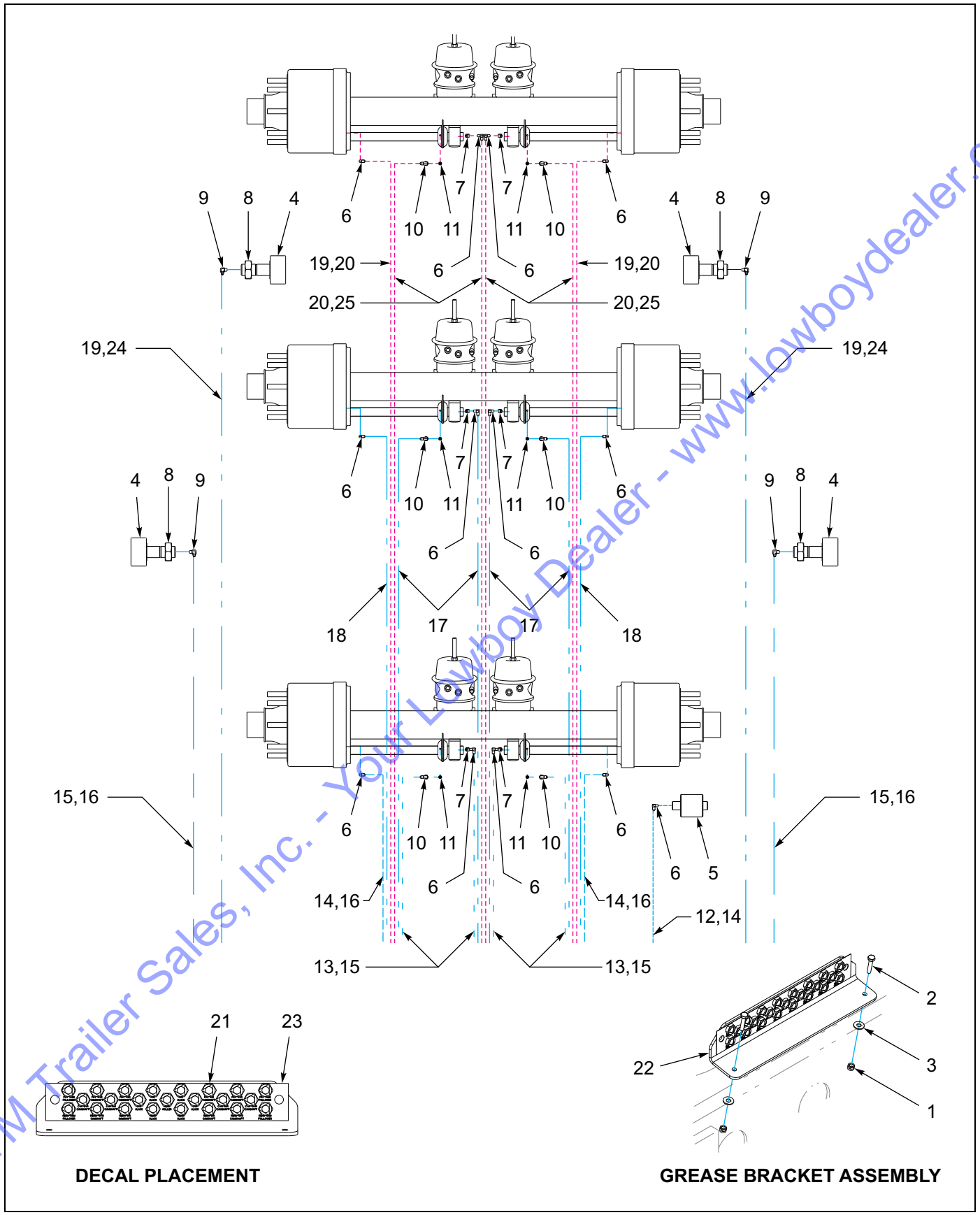
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Figure 1-27: Grease System - 440A Spring Brake

Grease System - 440A Spring Brake

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	101528	ELBOW, BRASS PIPE STREET	4	4
2	113628	ADAPTER, 90° 1/4P-7/16 JIC	4	4
3	138155	ADAPTER, 90° #4 JIC	4	4
4	2024-2-4S	ADAPTER, ELBOW	8	8
5	142441	HOSE ASSY, GREASE 1/4 X 45	2	--
	142442	HOSE ASSY, GREASE 1/4 X 60	--	2
6	142443	HOSE ASSY, GREASE 1/4 X 72	6	--
	144613	HOSE ASSY, GREASE 1/4 X 88	--	6
7	142446	HOSE ASSY, GREASE 1/4 X 118	4	--
	142448	HOSE ASSY, GREASE 1/4 X 133	--	4
8	142447	HOSE ASSY, GREASE 1/4 X 126	2	--
	142450	HOSE ASSY, GREASE 1/4 X 144	--	2
9	142451	HOSE ASSY, GREASE 1/4 X 156	2	--
	144614	HOSE ASSY, GREASE 1/4 X 172	--	2
10	142545	NUT, HEX JAM, 7/16-20 UNC	16	16
11	142553	DECAL, GREASE TRL U/C	2	2
12	161797	ADAPTER, STRAIGHT 5/16-18, #4 JIC	4	4
13	3-076-010005	CAM FOLLOWER, 4” DIA	REF	REF

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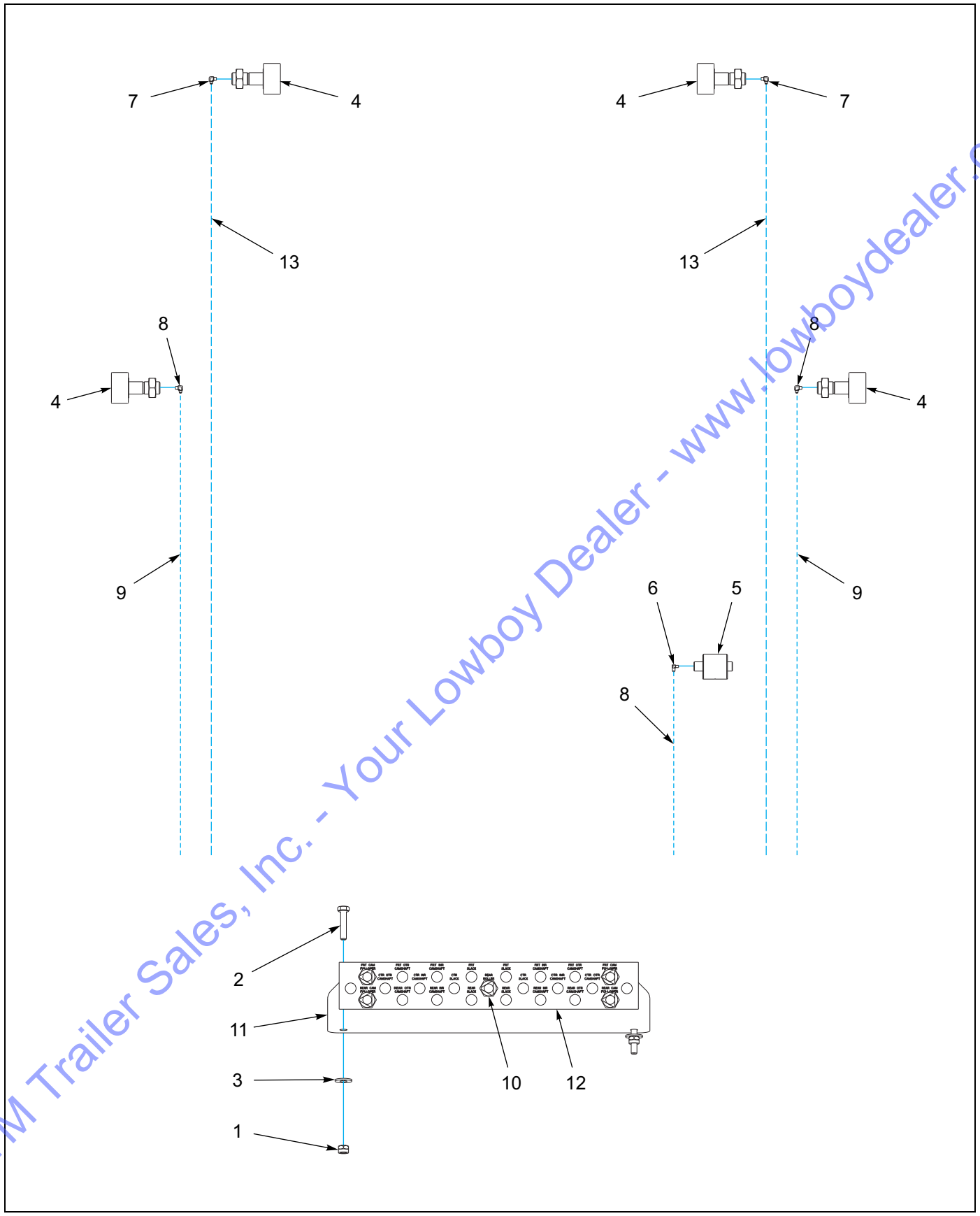
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Figure 1-28: Grease System - 455A Spring Brake

Grease System - 455A Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.	
	190329	SUSPENSION, 455A-102 SB LED	*	
	190331	SUSPENSION, 455A-CA 102 SB LED		*
1	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2	2
2	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2	2
3	1-861-010032-07	WASHER, FLAT 1/4	2	2
4	3-076-010015	CAM FOLLOWER, 5" DIA	REF	REF
5	3-645-010084	ROLLER ASSY, REAR U/C 660FG	REF	REF
6	2024-2-4S	ADAPTER, ELBOW	13	13
7	101528	ELBOW, BRASS PIPE STREET	6	6
8	104034	NUT, HEX 2-12 UNF, GR2	REF	REF
9	113628	ADAPTER, 90° 1/4P-7/16 JIC	4	4
10	138155	ADAPTER, 90° #4 JIC	6	6
11	161797	ADAPTER, STRAIGHT 5/16-18, #4 JIC	6	6
12	142441	HOSE ASSY, GREASE 1/4 X 45	1	--
13	142442	HOSE ASSY, GREASE 1/4 X 60	4	--
14	142443	HOSE ASSY, GREASE 1/4 X 72	2	1
15	142444	HOSE ASSY, GREASE 1/4 X 83	2	4
16	142445	HOSE ASSY, GREASE 1/4 X 102	--	4
17	142446	HOSE ASSY, GREASE 1/4 X 118	4	--
	142450	HOSE ASSY, GREASE 1/4 X 126	--	4
18	142447	HOSE ASSY, GREASE 1/4 X 126	2	--
	142451	HOSE ASSY, GREASE 1/4 X 156	--	2
19	142454	HOSE ASSY, GREASE 1/4 X 200	2	2
20	142455	HOSE ASSY, GREASE 1/4 X 217	--	6
21	142545	NUT, HEX JAM, 7/16-20 UNC	23	23
22	143182	BRACKET, GREASE HOSE 410	1	1
23	143688	DECAL, GREASE 410/610, U/C	1	1
24	144614	HOSE ASSY, GREASE 1/4 X 172	2	--
25	145416	HOSE ASSY, GREASE 1/4 X 186	4	--

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Figure 1-29: Grease System - 455A Disc Brake

Grease System - 455A Disc Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	190362	SUSPENSION, 455A-108 DSK BK TIS	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4	2
4	3-076-010015	CAM FOLLOWER 5" DIA **(TORQUE TO 250 FT/LBS)**	REF
5	3-645-010084	ROLLER ASSEMBLY, REAR U/C	REF
6	2024-2-4S	ADAPTER, ELBOW	1
7	113268	ADAPTER, 90	4
8	142441	HOSE ASSEMBLY, GREASE 1/4 X 45	1
9	142444	HOSE ASSEMBLY, GREASE 1/4 X 83	2
10	142545	NUT, 7/16	23
11	143182	BRACKET, GREASE HOSE	1
12	143688	DECAL, GREASE 410/610 U/C	1
13	144614	HOSE ASSEMBLY GREASE X 172	2

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Suspensions

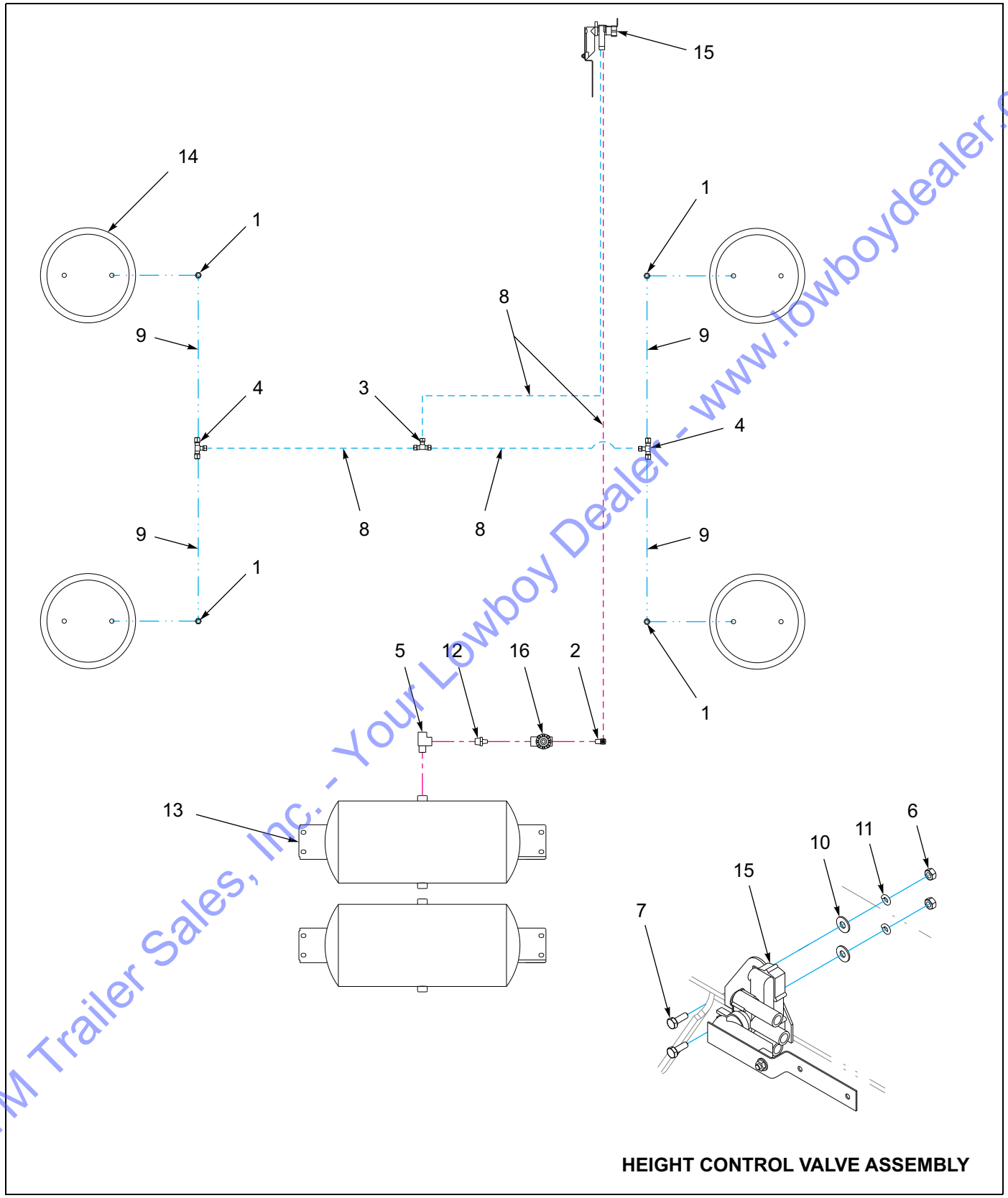


Figure 1-30: Air Ride Suspension - 440A

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Air Ride Suspension - 440A

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	1-297-010007-11	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	1-512-010007-05	NUT, HEX 1/4-20 UNC, GR2	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	1-861-010032-07	WASHER, FLAT ZP/CD, 1/4W	2
11	1-861-010034-09	WASHER, LKG HLCL SPR, 1/41/4	2
12	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
13	3-780-010002	TANK, AIR	2
14	102363	SUSPENSION, ADJ RLU-228-3.5 **(SEE PAGE 1-54)**	4
15	900 54 007	HEIGHT CONTROL VALVE	1
16	905-54-107	BRAKE PROTECTION VALVE	1
17	102732	AIR CONTROL KIT **(ITEMS 15 & 16) (SEE PAGE 1-53)**	1

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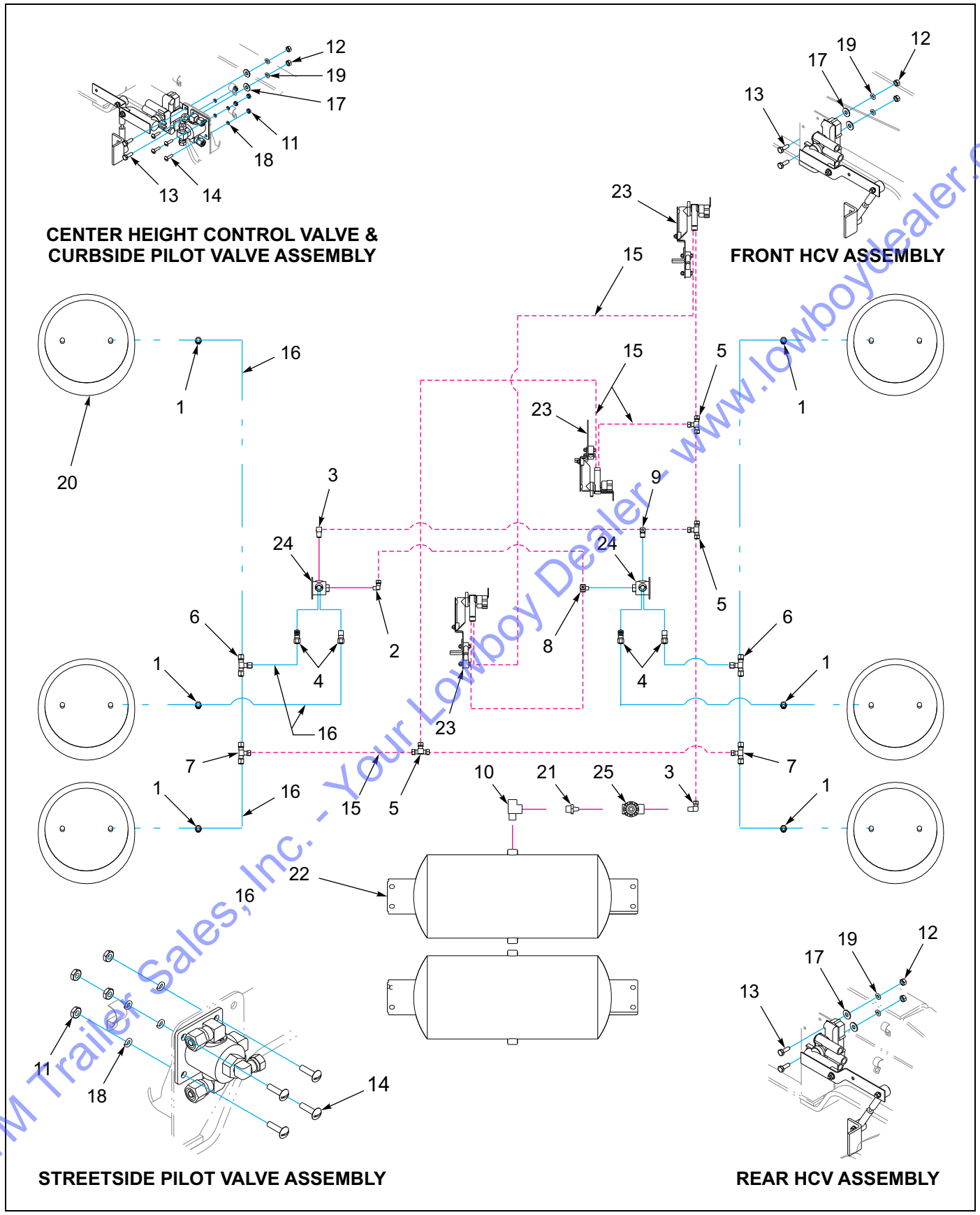


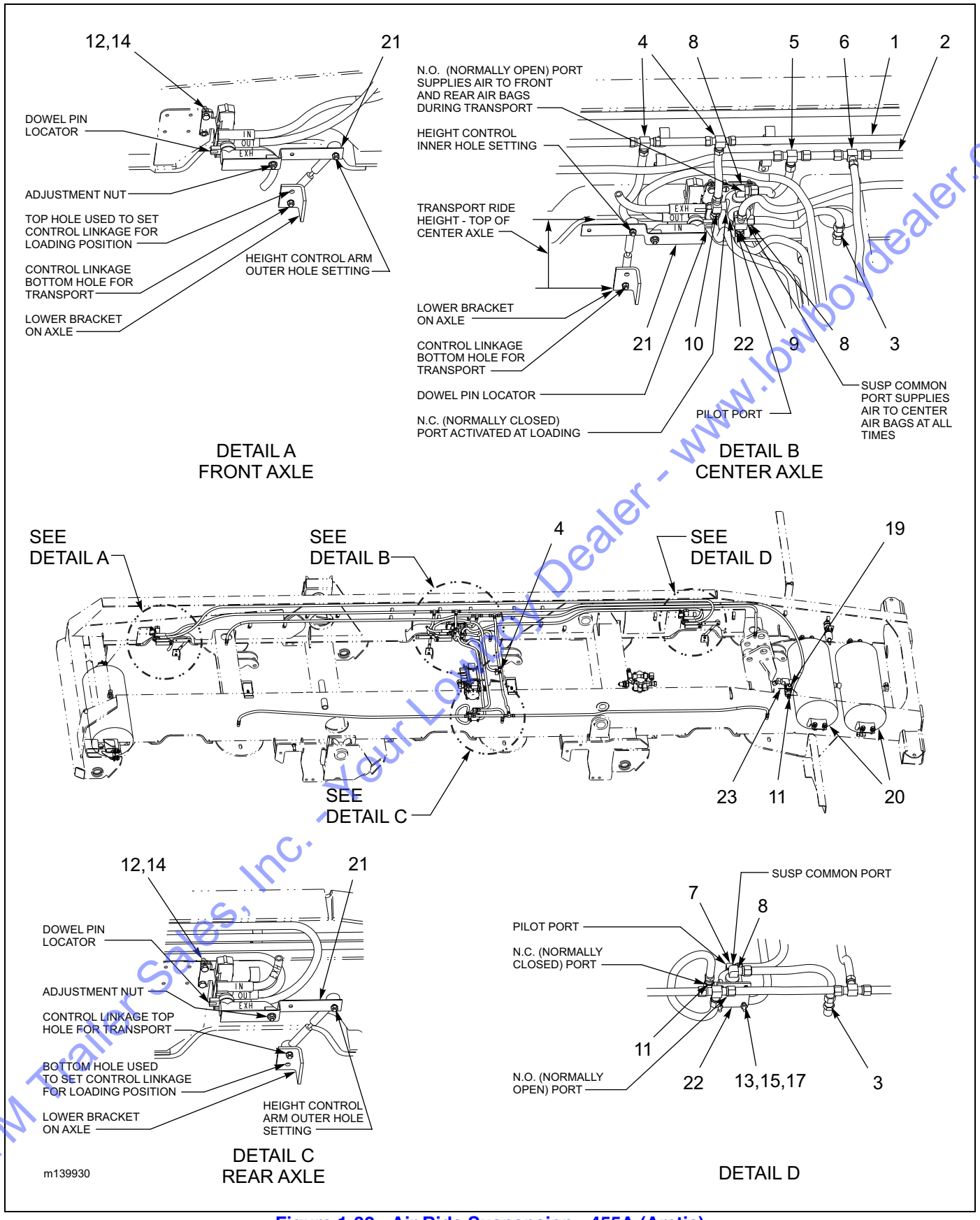
Figure 1-31: Air Ride Suspension - 455A

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Air Ride Suspension - 455A

ITEM	PART NO.	DESCRIPTION	QTY.
	190329	SUSPENSION, 455A-102 SB LED	
	190331	SUSPENSION, 455A-CA 102 SB LED	
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 1-54)**	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

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Figure 1-32: Air Ride Suspension - 455A (Arctic)

Air Ride Suspension - 455A (Arctic)

ITEM	PART NO.	DESCRIPTION	QTY.
	139930	AIR RIDE, AIR SYSTEM - TRIPLE	
1	126629	TUBING NYLON 1/4 OD	AR
2	126630	TUBING NYLON 3/8 OD	AR
3	126672	FITTING, COMPRESSION STRAIGHT	6
4	126673	FITTING, COMPRESSION UNION TEE	1
5	126674	FITTING, COMPRESSION UNION TEE	2
6	126675	FITTING, COMPRESSION TEE	4
7	126676	FITTING, COMPRESSION 90	3
8	126678	FITTING, COMPRESSION 90	2
9	126679	FITTING, COMPRESSION TEE	2
10	126680	FITTING, COMPRESSION TEE	1
11	126862	FITTING, COMPRESSION STRAIGHT	1
12	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	6
13	1-512-010007-03	NUT, HEX 10-24	8
14	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
15	1-656-010003051	SCREW RH HD MACH #10-24 X 3/4	8
16	1-796-010004-02	TIE STRAP PLASTIC **(NOT SHOWN)**	15
17	1-861-010034-07	WASHER, SPLIT LOCK #10	8
18	102363	SUSPENSION, ADJ RLU-228-3.5 **(NOT SHOWN) (SEE PAGE 1-54)**	REF
19	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
20	3-780-010002	TANK AIR	REF
21	3-843-010034	VALVE AIR RIDE HEIGHT CONTROL	3
22	900-54-079	PILOT VALVE	2
23	905-54-107	BRAKE PROTECTION VALVE	1
24	167692	FILTER **(NOT SHOWN)**	1

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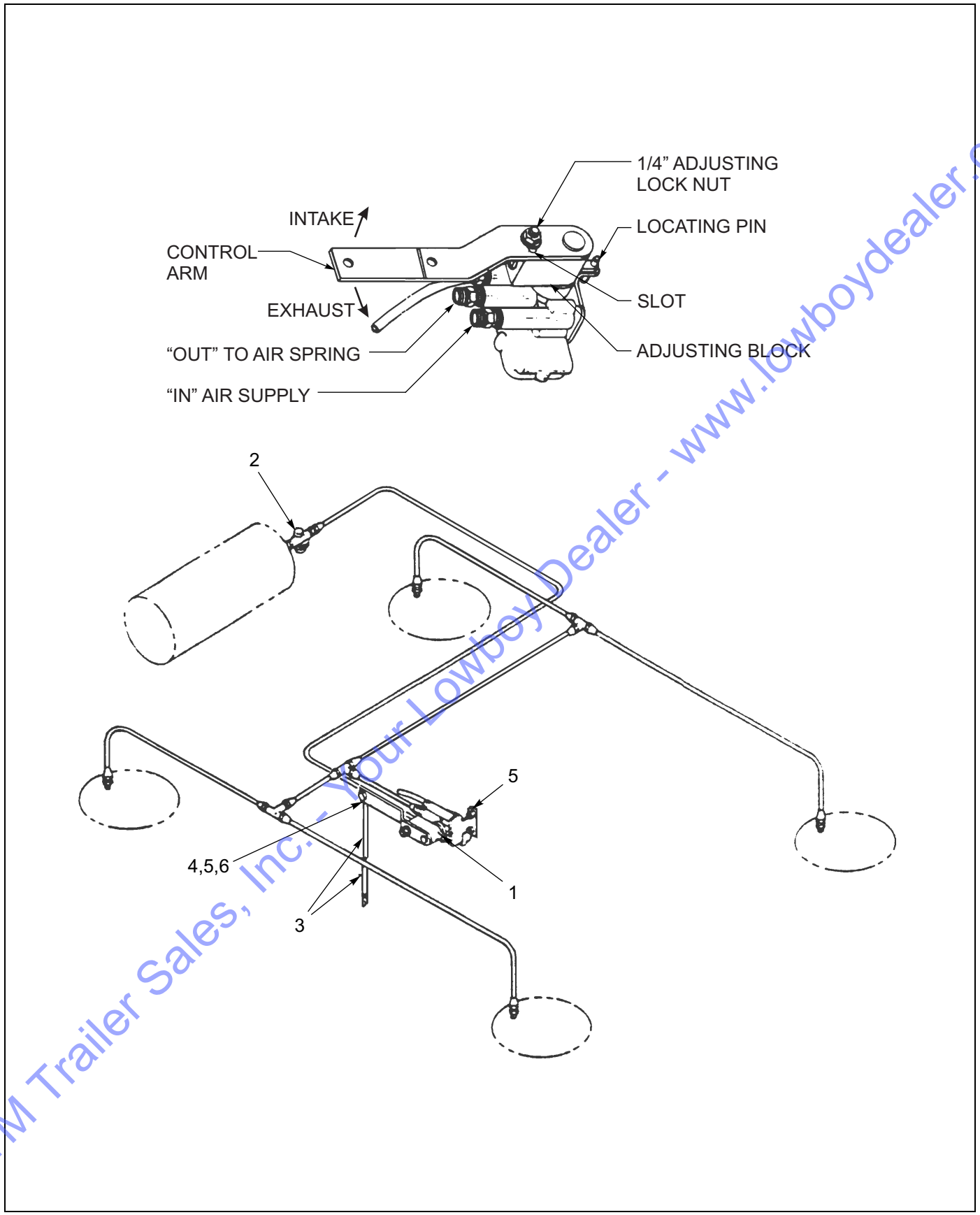


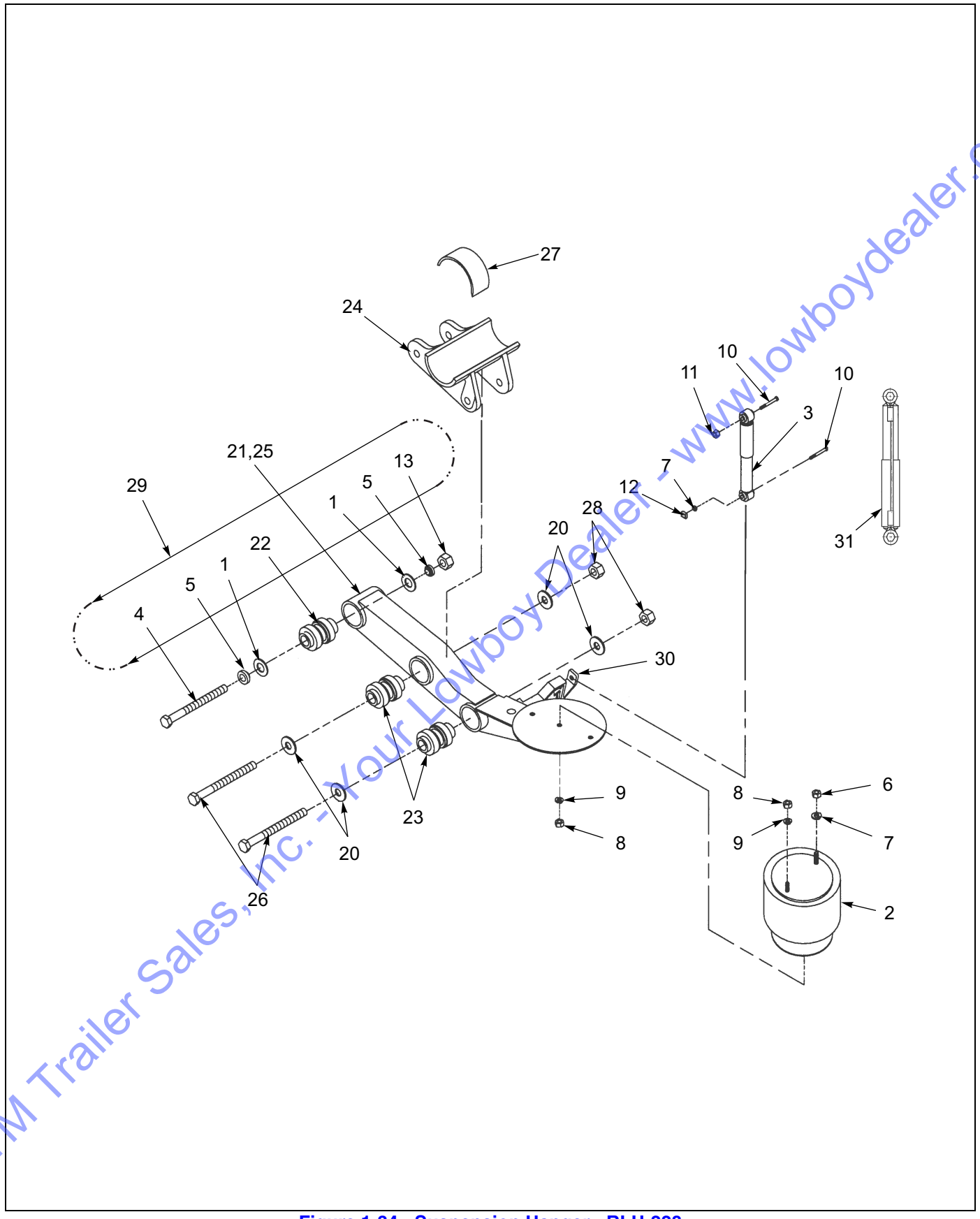
Figure 1-33: Air Control Kit - Neway

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Air Control Kit - Neway

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE **(INCLUDES HARDWARE BAG)**	1
	905-54-186	HEIGHT CONTROL VALVE **(VALVE ONLY)**	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 1-34: Suspension Hanger - RLU-228

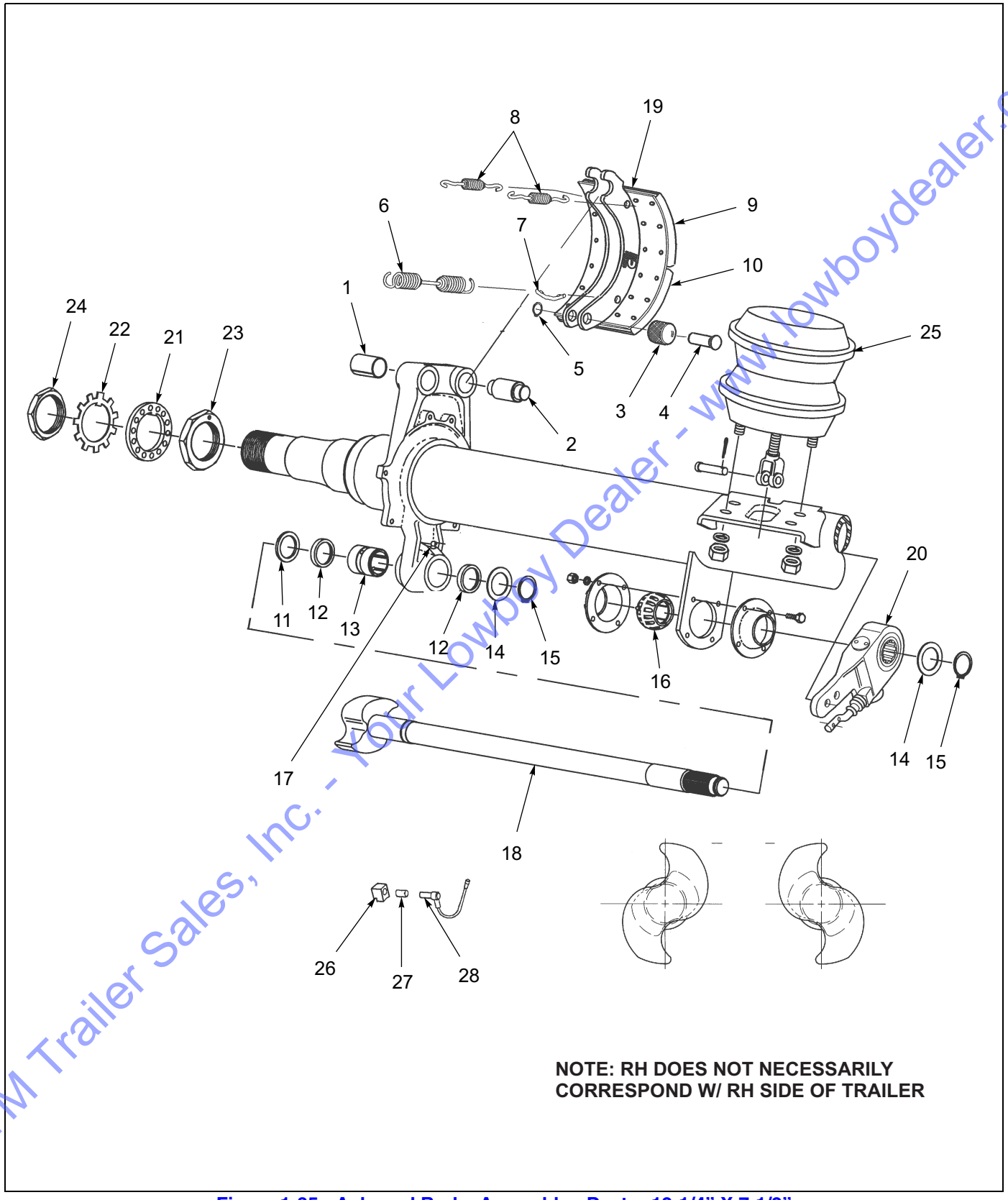
Suspension Hanger - RLU-228

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
	111016	905 57 159	AIR SPRING ASSEMBLY - 102364	2
3	900 45 040	900 45 040	SHOCK - 102363	2
	111017	900 44 642	SHOCK - 102364	2
4	90508009	905 08 009	ALIGN BUSH ASSEMBLY	2
5	129006	900 08 186	ALIGN BLOCK **(900 08 186)**	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"	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"	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
	111019	110 05 053	FASTENER KIT **(ITEMS 1, 4-11, 13 & 15)**	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
	127708		WIRE ROPE STRAP KIT RLU 228-5.5	1

NOTE: QUANTITIES LISTED ARE PER AXLE.

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Axle and Brakes



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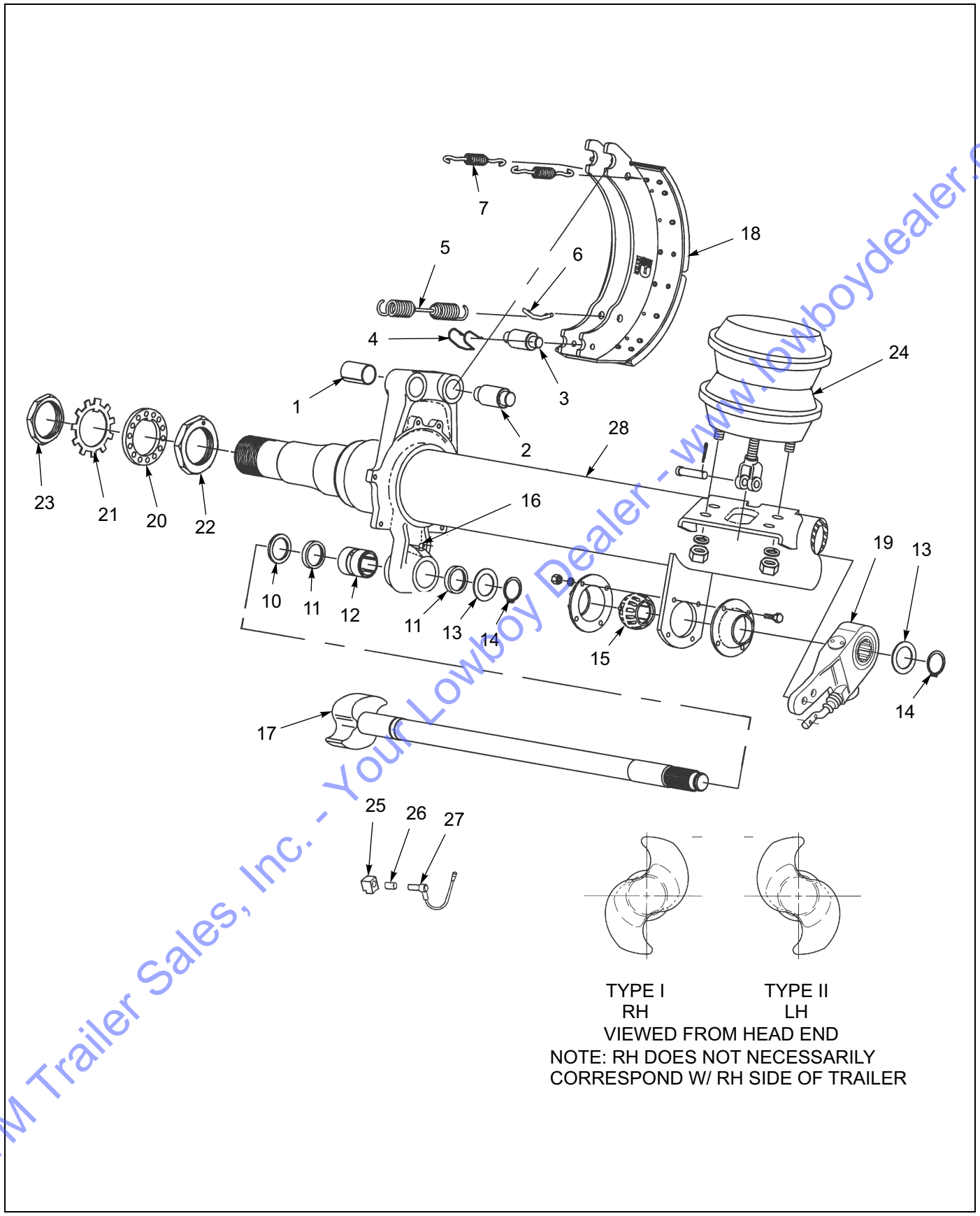
Figure 1-35: Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115703		AXLE 77, 12-1/4 X 7-1/2 SPRING 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	1
	034-189-03	034-189-03	CAMSHAFT, 22-5/16” RH	1
	171963	034-188-09	CAMSHAFT, 26-1/2” LH	1
	171964	034-189-09	CAMSHAFT, 26-1/2” RH	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
	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	139287	094-007-00	ABS SENSOR, 90	2

NOTE: WHEN ORDERING THE BEAM W/ SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, & CAMSHAFT LENGTH.

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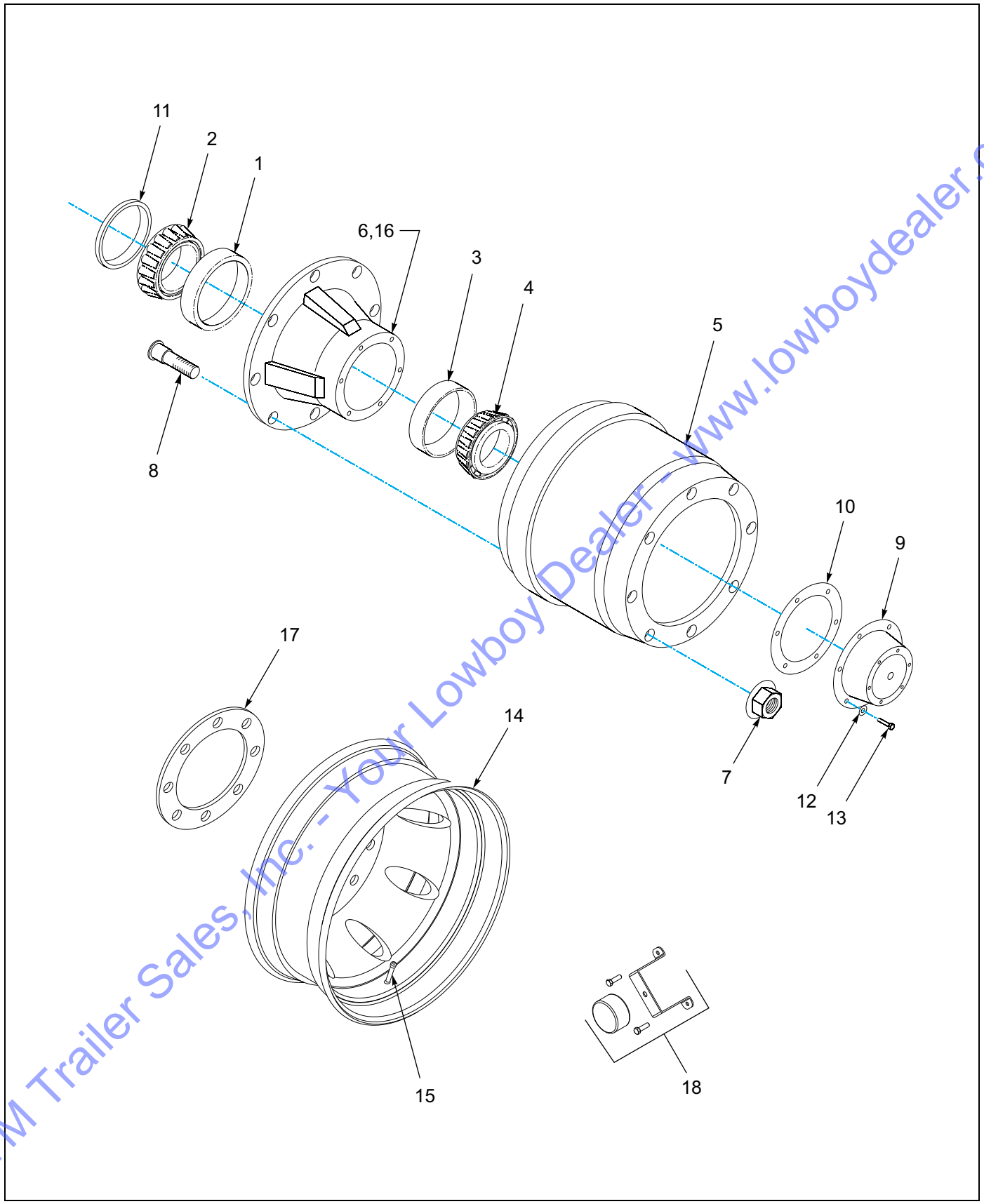
Figure 1-36: Axle and Brake Assembly - Dexter 16-1/2" X 7"

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115713		AXLE 75, 16-1/2 X 7 SPRING BRAKE - 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	1
	034-193-05	034-193-05	CAMSHAFT, 22-5/16” RH	1
	137461	034-192-08	CAMSHAFT, 25” LH	1
	137485	034-193-08	CAMSHAFT, 25” RH	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
	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	139287	094-007-00	ABS SENSOR, 90	2
28	-----	D-2H16	BEAM W/ BRACKETS	1

NOTE: WHEN ORDERING THE BEAM W/ SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, & CAMSHAFT LENGTH.

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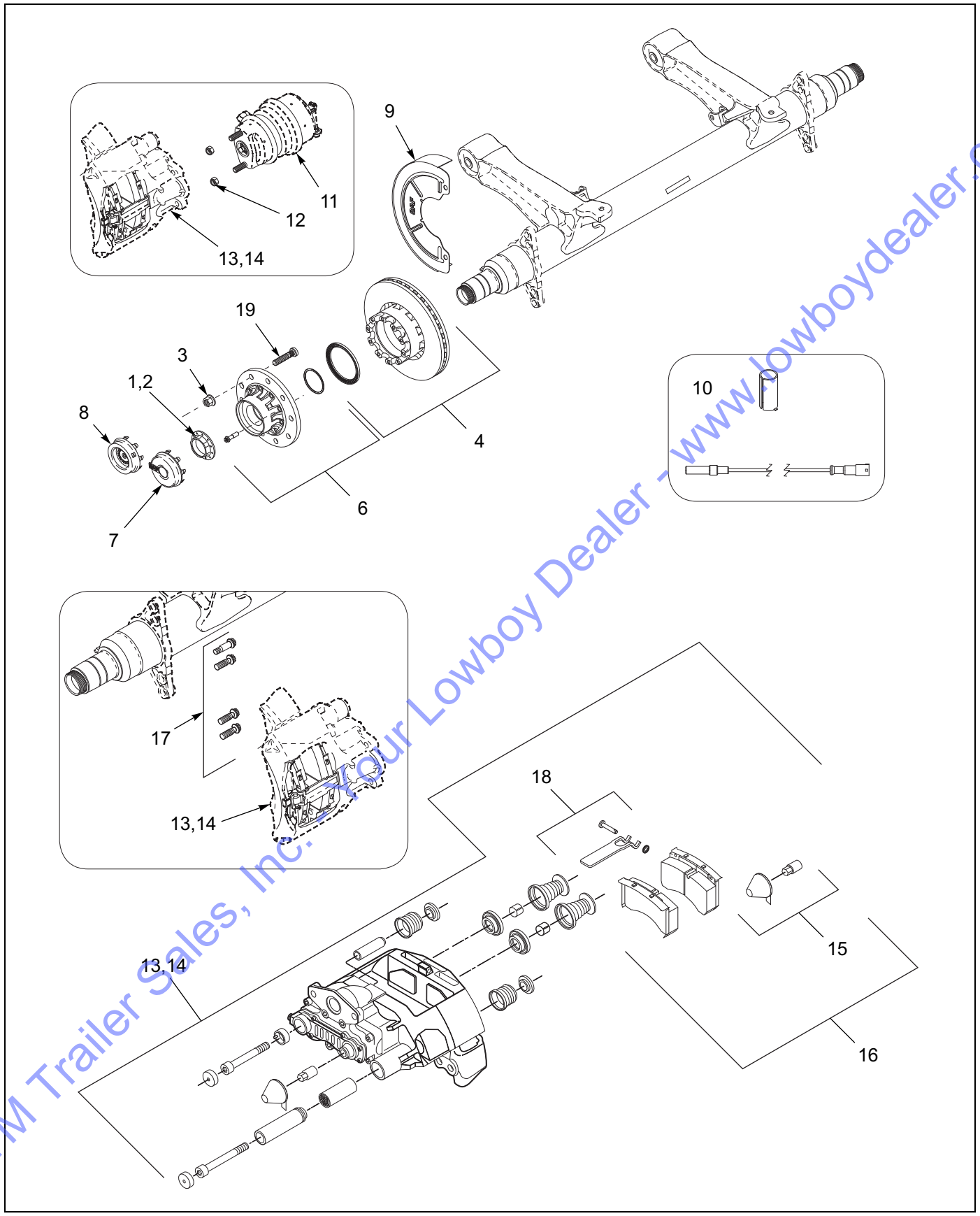
Figure 1-37: Outboard Pilot Mount Hub and Drum Assembly

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
	3-870-010097	WHEEL, DISC PILOT MT 17.5 X 6.75 - 8 BOLT	1
15	TR573	VALVE STEM - STEEL WHEEL	1
16	*	ABS TONE RING	1
17	114619	WHEEL GUARD 8 HOLE 275 MM BC - USED W/ ALUMINUM	1
18	142550	HUBODOMETER W/ BRACKET, 235/75R17.5 TIRE	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE BRAKE DRUM. IT SHOULD NEVER BE SOLD SEPARATELY.

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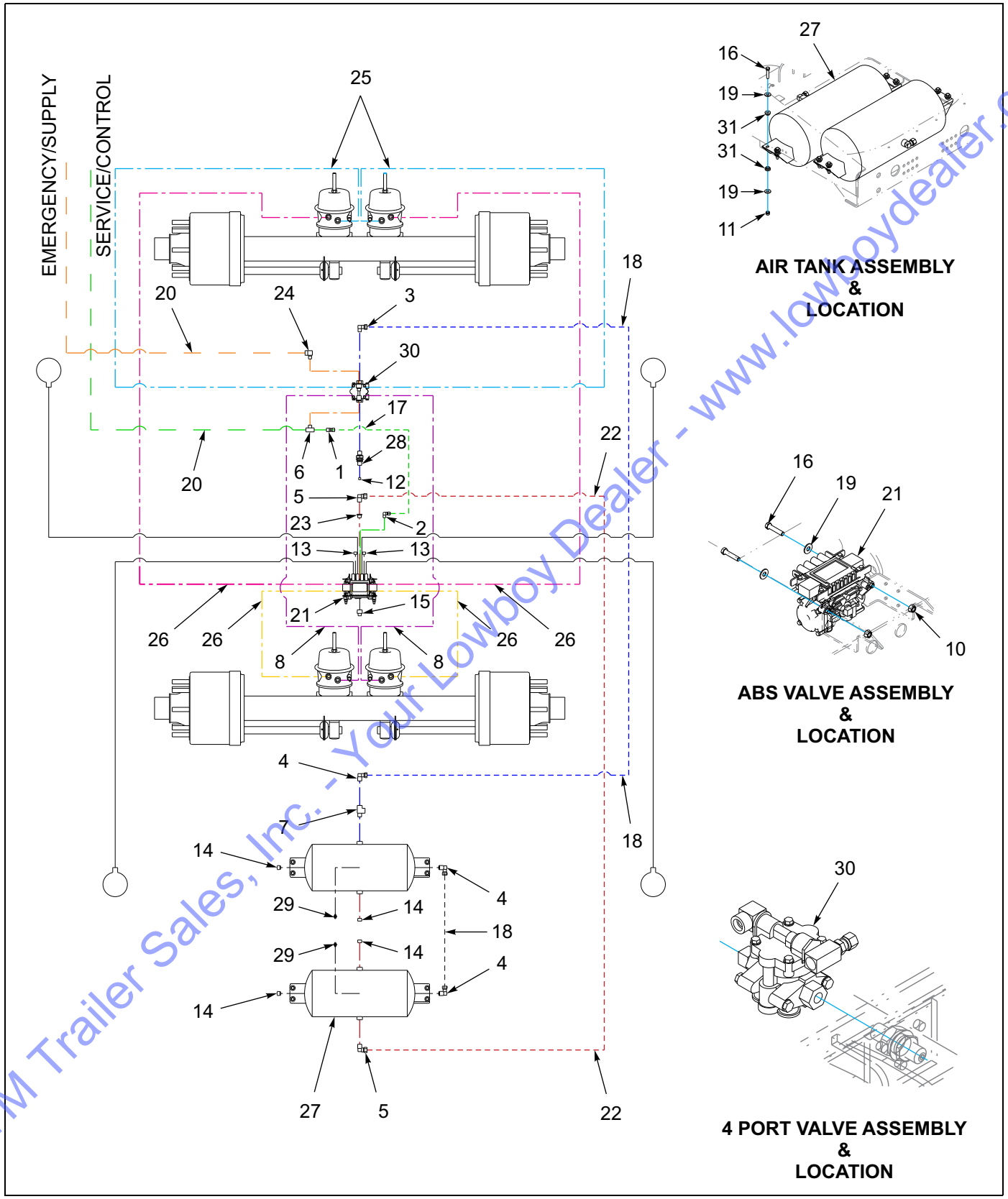
Figure 1-38: Axle & Disc Brake Items

Axle & Disc Brake Items

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	175754	S04BN0014	AXLE, DISC SPG BK75-1/2” 16-1/2” 25K TIS	
1	179568	01011008500Z	AXLE NUT, LH	1
2	179569	01011008600Z	AXLE NUT, RH	1
3	179570	04247301201Z	WHEEL NUT	2
4	179571	03606307600Z	HEAD UNIT W/ LONG STUDS	2
5	179572	05387001503Z	AXLE STUB GREASE **(NOT SHOWN)**	2
6	179573	03434366300Z	DISC REPAIR KIT	1
7	179574	03304010900Z	HUB CAP **(PSI)**	2
	179575	03304010201Z	HUB CAP **(NO PSI)**	2
8	179576	03304010301Z	HUB CAP HUB ODOMETER	2
9	176876	02005023000Z	DUST SHIELD	2
10	179577	03029024200Z	ABS KIT	2
11	179578	04454109864Z	BRAKE CHAMBER 16/24	2
12	179579	04247405280Z	BRAKE CHAMBER NUT	4
13	179580	03080005901Z	BRAKE CALIPER, LH 22.5	1
14	179581	03080006001Z	BRAKE CALIPER, RH 22.5	1
15	179582	03434381600Z	ADJUSTER CAP	2
16	179583	03057008500Z	BRAKE LINING KIT 22.5	1
17	179584	03434366000Z	BRAKE CALIPER BOLT KIT	2
18	179585	03434380900Z	BRAKE PAD RETAINING CLIP	2
19	195320	04375101210Z	LONG WHEEL STUD	2

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Air Brake System



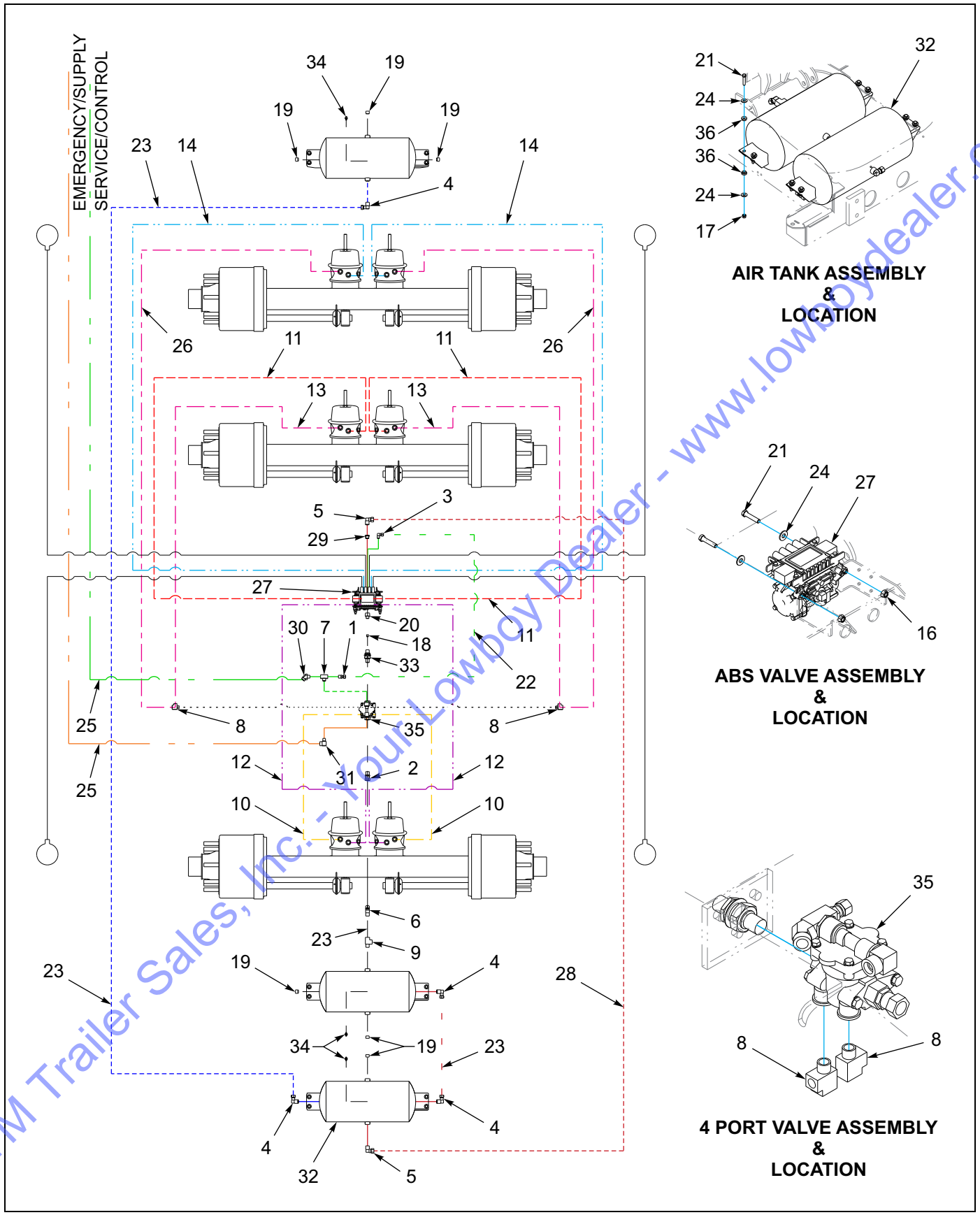
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Figure 1-39: Air Brake System - 440A

Air Brake System - 440A

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 1-70)**	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

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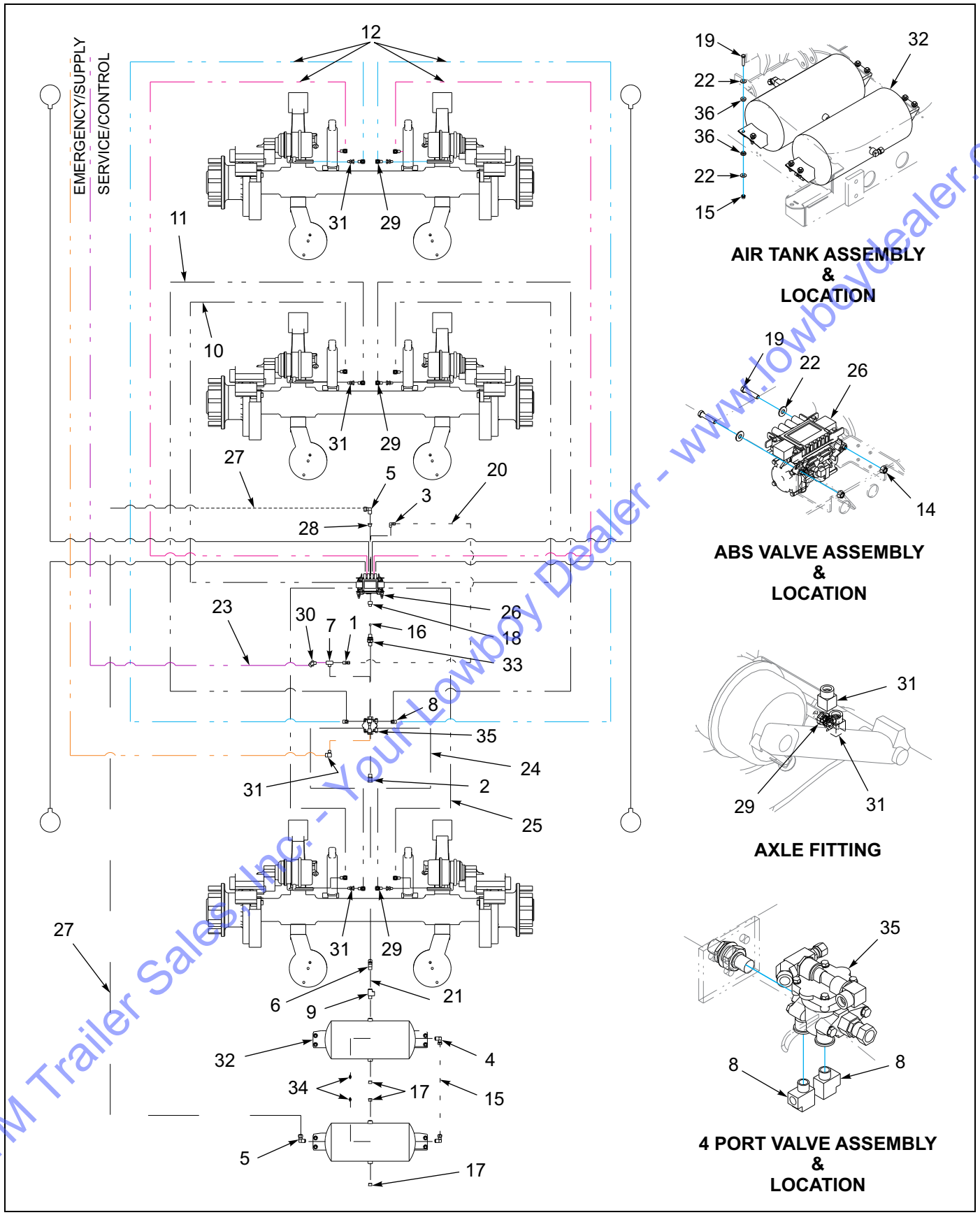
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Figure 1-40: Air Brake System - 455A Spring Brake

Air Brake System - 455A 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 1-70)**	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

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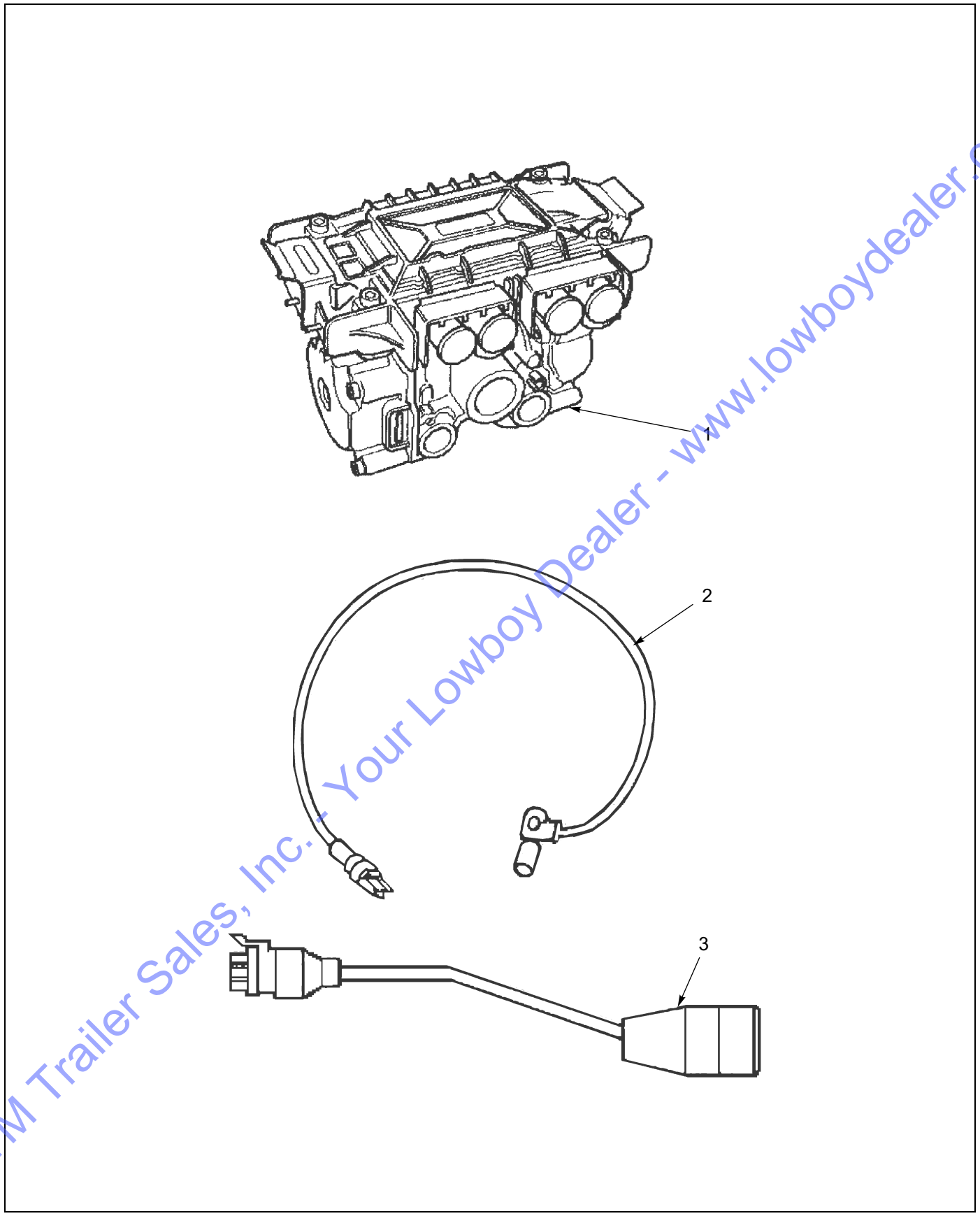
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Figure 1-41: Air Brake System - 455A Disc Brake

Air Brake System - 455A Disc Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	190362	SUSPENSION, 455A-108 DSK BK TIS	
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	2
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	1-384-010038-2	HOSE, AIR 3/8 X 66	2
11	1-384-010038084	HOSE, AIR 3/8 X 84”	2
12	1-384-010038120	HOSE, AIR 3/8 X 120	4
13	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	2
14	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
15	1-512-010005-05	NUT, HEX SLFLKG, 3/8-16 UNC, GRB	8
16	1-560-010002-02	PLUG, PIPE 1/4 NPT	1
17	1-560-010002-04	PLUG, PIPE 1/2 NPT	3
18	1-560-010002-05	PLUG, PIPE 3/4-14 NPTF	1
19	1-654-010051-08	SCREW, HEX 3/8-16 UNC X 1-3/4 GR5	10
20	1-833-010002	TUBING, NYLON 3/8	7
21	1-833-010003	TUBING, NYLON 1/2	15
22	1-861-010032-11	WASHER, FLAT 3/8W	18
23	100949	HOSE, AIR 3/8 X 222 W/ 3/8 ENDS	2
24	101003	HOSE, AIR 3/8 X 48 W/3/8 ENDS	2
25	103738	HOSE, AIR 3/8 X 100 W/3/8 ENDS	2
26	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-70)**	1
27	117304	TUBING, NYLON 5/8 OD	7
28	118-2659-9	BUSHING, 1/2NPT X 3/4NPT STL	1
29	2045-6-6S	ADAPTER, 3/8 NPTF, ST SWVL	6
30	2088-6-6S	ADAPTER, 45	1
31	2089-6-6S	ADAPTER, 903/8MPT X 3/8FPT	13
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	2
35	758-181	VALVE TASK, 4 PORT	1
36	805-2	BUSHING, STEP	16
37	175754	AXLE, 16.5” DISK SPG BK, TIS 75-1/2 **(SEE PAGE 1-58)**	1

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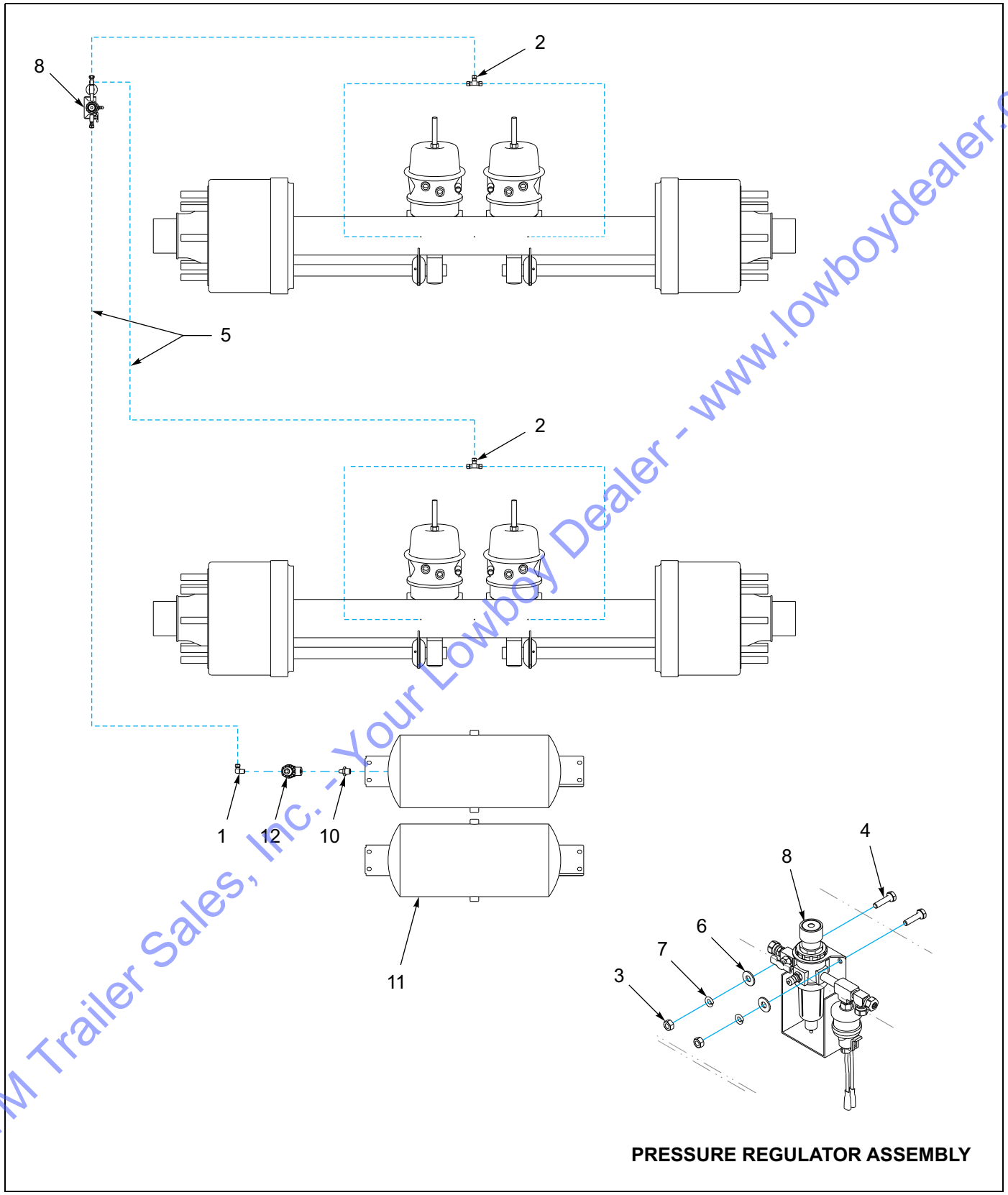
Figure 1-42: ABS Brake Kit - Rockwell

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

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Tire Inflation System



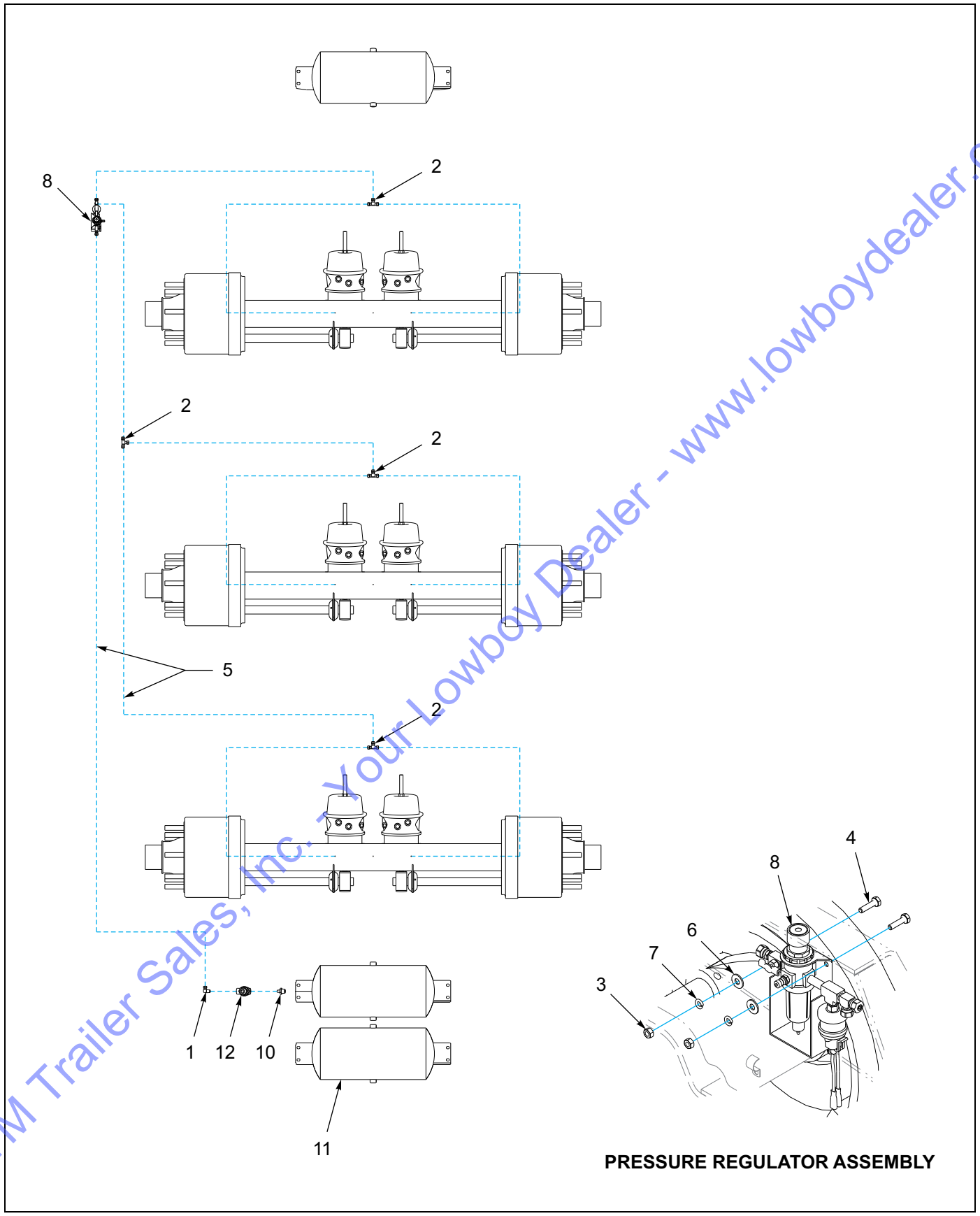
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Figure 1-43: Tire Inflation System - 440A

Tire Inflation System - 440A

ITEM	PART NO.	DESCRIPTION	QTY.
	189601	SUSPENSION, 440A 102 SB LED TIS	
	189638	SUSPENSION, 440A 102 SB 62K D/L TIS	
	189603	SUSPENSION, 440A-CA 102 SB LED TIS	
	189640	SUSPENSION, 440A-CA 102 SB 62K D/L TIS	
1	1-297-010008-07	FITTING, AIR 90, 1/4 TUBE X 1/4 NPT	REF
2	1-297-010010-01	FITTING, AIR UNION TEE	REF
3	1-512-010007-05	NUT, HX, 1/4-20 UNC, GR2	REF
4	1-654-010047-06	SCREW, HEX, 1/4-20 UNC X 1 GR5	REF
5	1-833-010001	TUBING, NYLON 1/4 OD	REF
6	1-861-010032-07	WASHER, FLAT ZP/CD, 1/4W	REF
7	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	REF
8	157702	TIRE INFLATION SYSTEM 2AX **(SEE PAGE 1-78)**	1
9	176473	HARNESS KIT TIRE INFL 400/900 **(NOT SHOWN) (SEE PAGE 1-81)**	--
10	2083-8-4S	NIPPLE, HEX 1/2-1/4	REF
11	3-780-010002	TANK, AIR	2
12	905-54-107	BRAKE PROTECTION VALVE	REF

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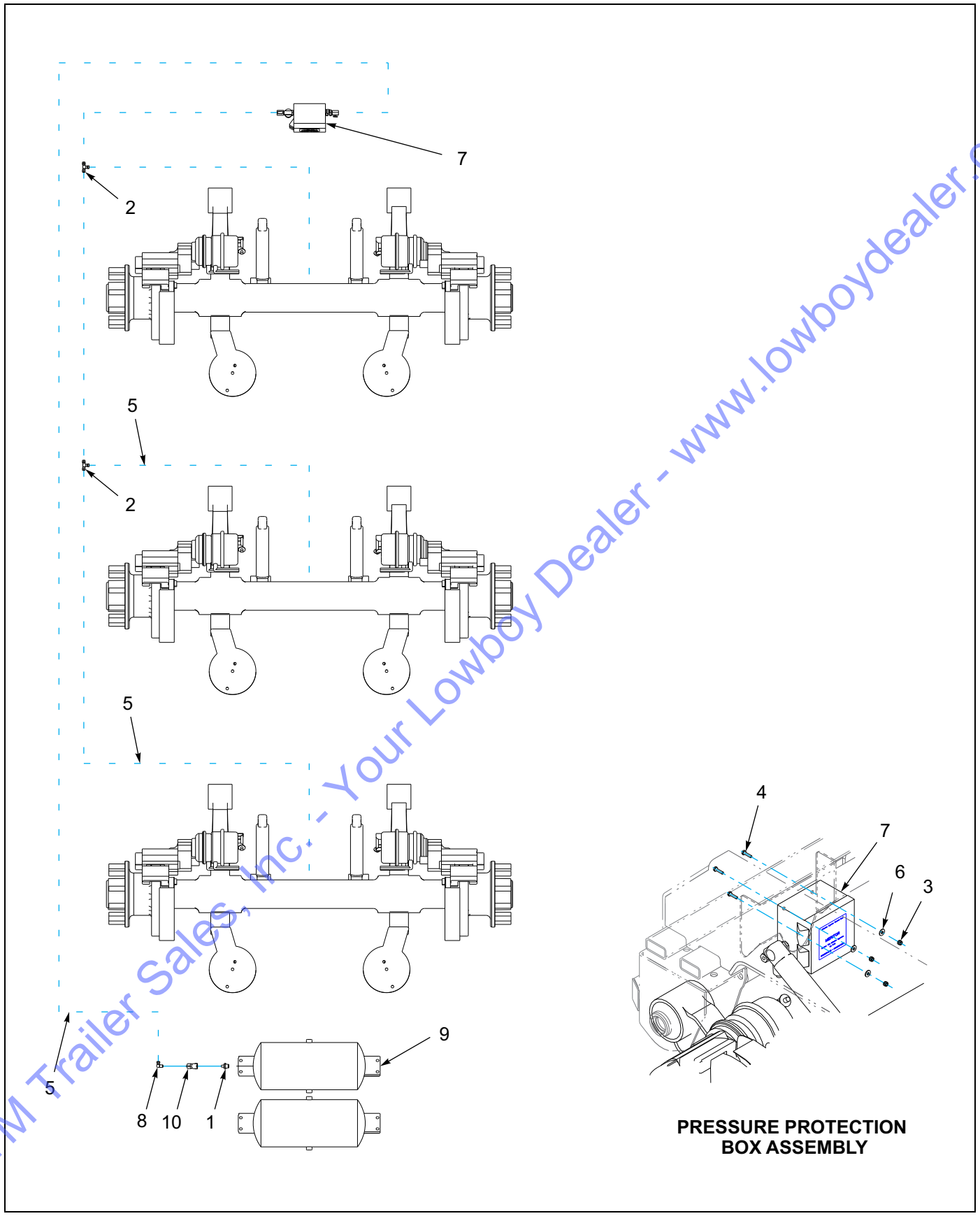
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Figure 1-44: Tire Inflation System - 455A Spring Brake

Tire Inflation System - 455A Spring Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	190329	SUSPENSION, 455A-102 SB LED	
	190331	SUSPENSION, 455A-CA 102 SB LED	
1	1-297-010008-07	FITTING, AIR 90	REF
2	1-297-010010-01	FITTING, AIR UNION TEE	REF
3	1-512-010007-05	NUT, HX, 1/4-20 UNC, GR2	REF
4	1-654-010047-06	SCREW, HEX, 1/4-20 UNC X 1 GR5	REF
5	1-833-010001	TUBING, NYLON, 1/4 OD	REF
6	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	REF
7	1-861-010034-09	WASHER, LKG, HLCL, SPR, 1/4	REF
8	157703	TIRE INFLATION SYSTEM 3AX **(SEE PAGE 1-78)**	1
9	176473	HARNESS KIT TIRE INFL 400/900 **(NOT SHOWN) (SEE PAGE 1-81)**	1
10	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	REF
11	3-780-010002	TANK, AIR	3
12	905-54-107	BRAKE PROTECTION VALVE	REF

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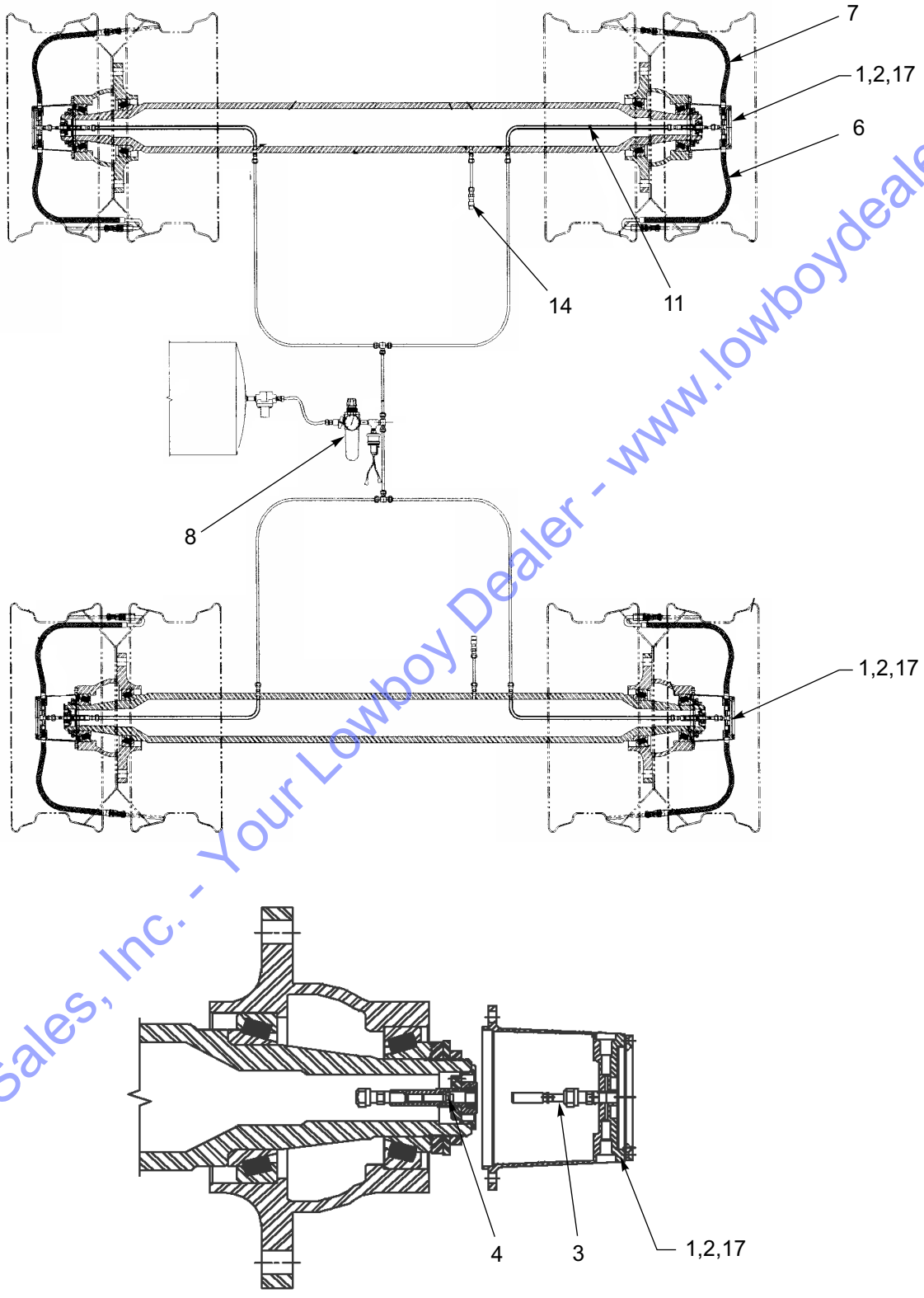
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Figure 1-45: Tire Inflation System - 455A Disc Brake

Tire Inflation System - 455A Disc Brake

ITEM	PART NO.	DESCRIPTION	QTY.
	190362	SUSPENSION, 455A-108 DSK BK TIS	
1	1-297-010008-07	FITTING AIR 90	REF
2	1-297-010010-01	FITTING AIR UNION TEE	REF
3	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	REF
4	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	REF
5	1-833-010001	TUBING NYLON 1/4 OD	REF
6	1-861-010032-07	WASHER, FLAT 1/4W	REF
7	176076	THERMALERT, TIS, TRIPLE SAF AXLES **(SEE PAGE 1-80)**	1
8	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	REF
9	3-780-010002	TANK AIR	REF
10	168610	THERMALERT PRESSURE PROTECTION VALVE	REF

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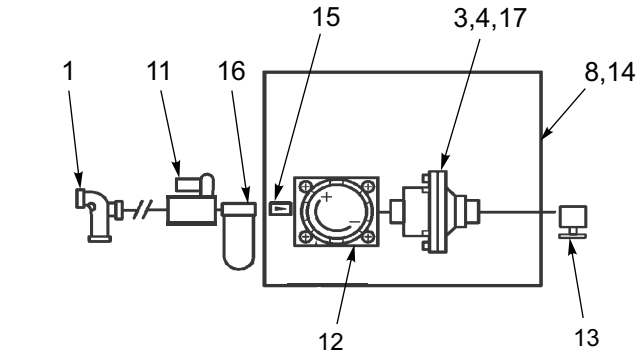
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Figure 1-46: Tire Inflation System - 2AX/3AX (Option)

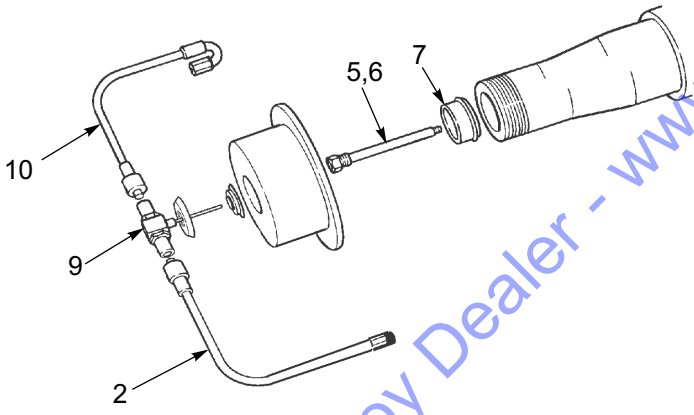
Tire Inflation System - 2AX/3AX

ITEM	PART NO.	DESCRIPTION	QTY.	
	157702	TIRE INFLATION SYSTEM 2AX	*	
	157703	TIRE INFLATION SYSTEM 3AX		*
1	139529	HUB CAP ASSEMBLY, LOW PROFILE 5.5” OIL	4	6
2	157704	GASKET, HUB CAP	4	6
3	157705	ROTATING SHAFT, UNIVERSAL	4	6
4	157706	SPINDLE PLUG, 1.75”	4	6
5	157707	AIR CYLINDER ASSEMBLY **(NOT SHOWN)**	4	6
6	159338	HOSE ASSEMBLY, OUTER TIRE	4	6
7	159337	HOSE ASSEMBLY, INNER TIRE	4	6
8	148416	REGULATOR ASSEMBLY W/ BALL VALVE	1	1
9	-----	WARNING LIGHT WIRE **(NOT SHOWN)**	1	1
10	-----	NYLON AIR TUBE **(NOT SHOWN)**	1	1
11	-----	CHAFE GUARD	1	1
12	-----	LARGE WIRE TIES **(NOT SHOWN)**	3	3
13	148417	TRIPLE AXLE HARDWARE KIT **(NOT SHOWN)**	1	1
	148413	DUAL AXLE HARDWARE KIT **(NOT SHOWN)**	1	1
14	-----	AXLE VENT	1	1
15	145677	LIGHT PRESSURE GUARD **(NOT SHOWN)**	1	1
16	154653	PRESSURE SWITCH **(NOT SHOWN)**	1	1
17	085-002-02	RUBBER PLUG	4	6
18	194159	SPINDLE PLUG W/ ROTATING SHAFT KIT **(NOT SHOWN)** **(INCLUDES ITEMS 3 & 4)**	4	6

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CONTROL BOX ASSEMBLY



DUAL WHEEL END ASSEMBLY

Figure 1-47: 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

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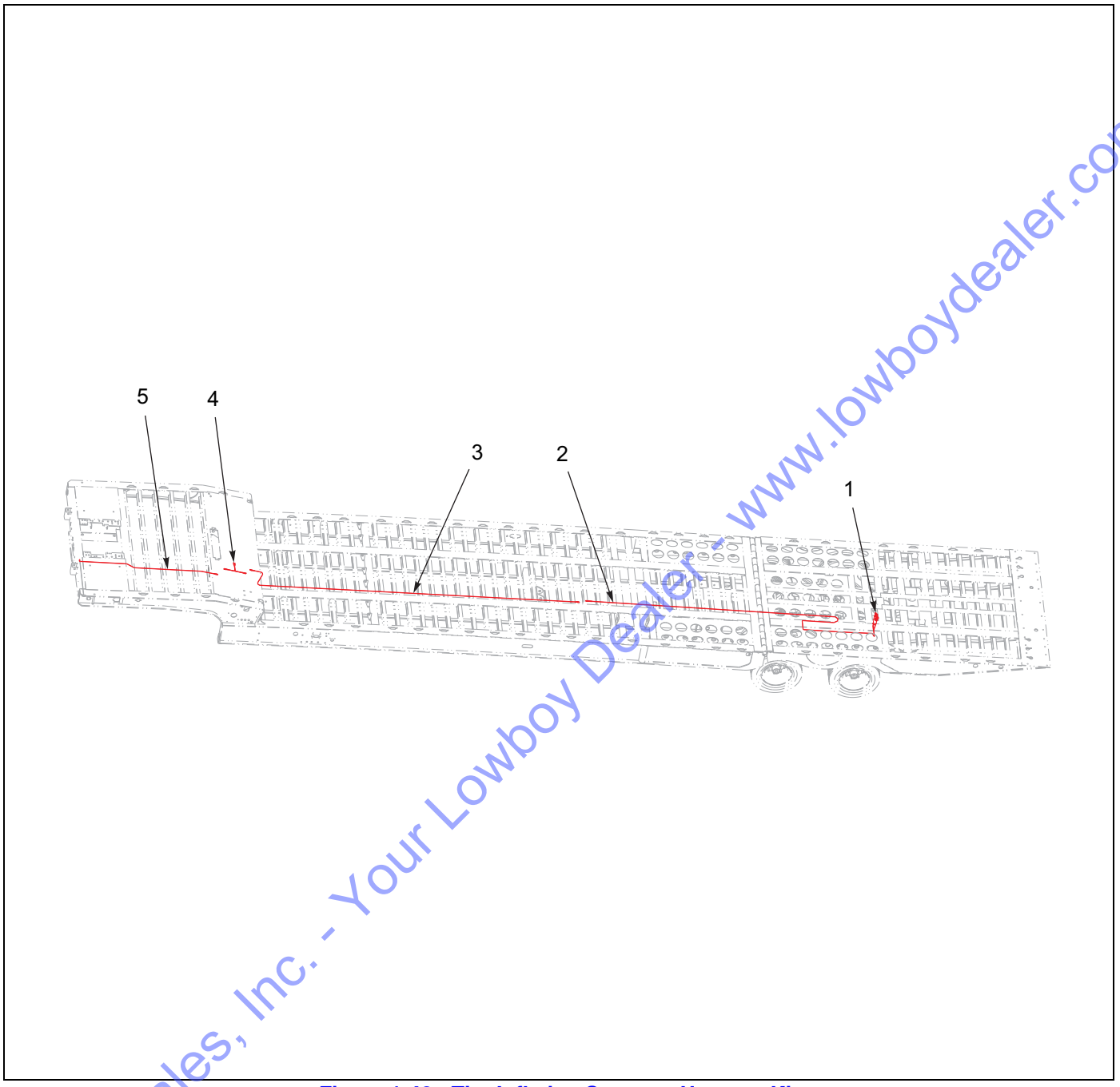


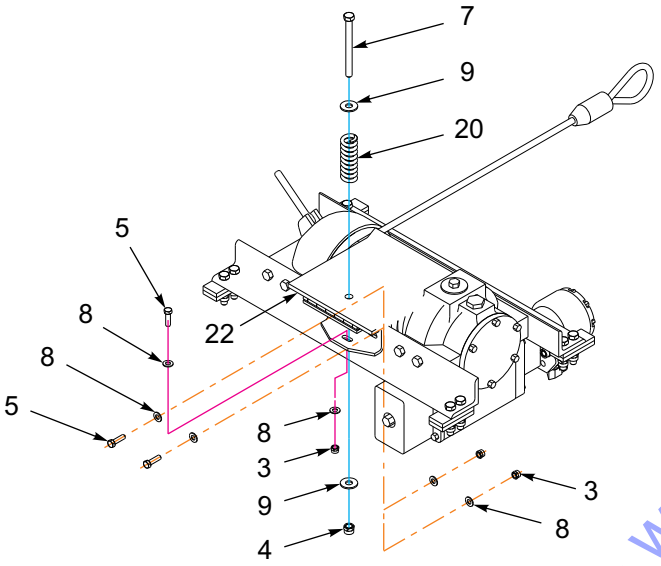
Figure 1-48: Tire Inflation System - Harness Kit

Tire Inflation System - Harness Kit

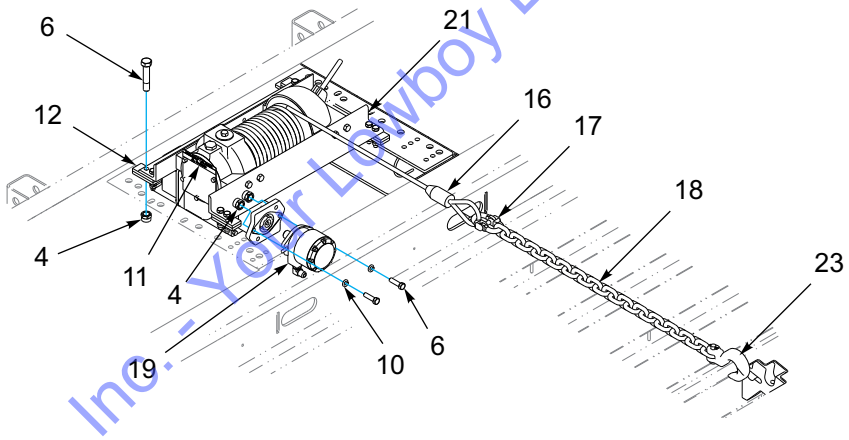
ITEM	PART NO.	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	
1	157703	TIRE INFLATION SYSTEM 3AX	REF
	157702	TIRE INFLATION SYSTEM 2AX	REF
2	176476	HARNESS, TIRE INFLATION LD25S	1
3	176477	HARNESS, TIRE INFLATION LD30	1
4	176478	HARNESS, TIRE INFLATION LDPWR	1
5	176479	HARNESS, TIRE INFLATION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

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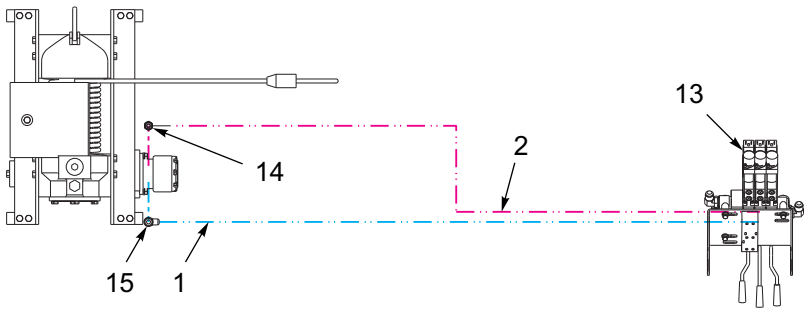
Winches



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

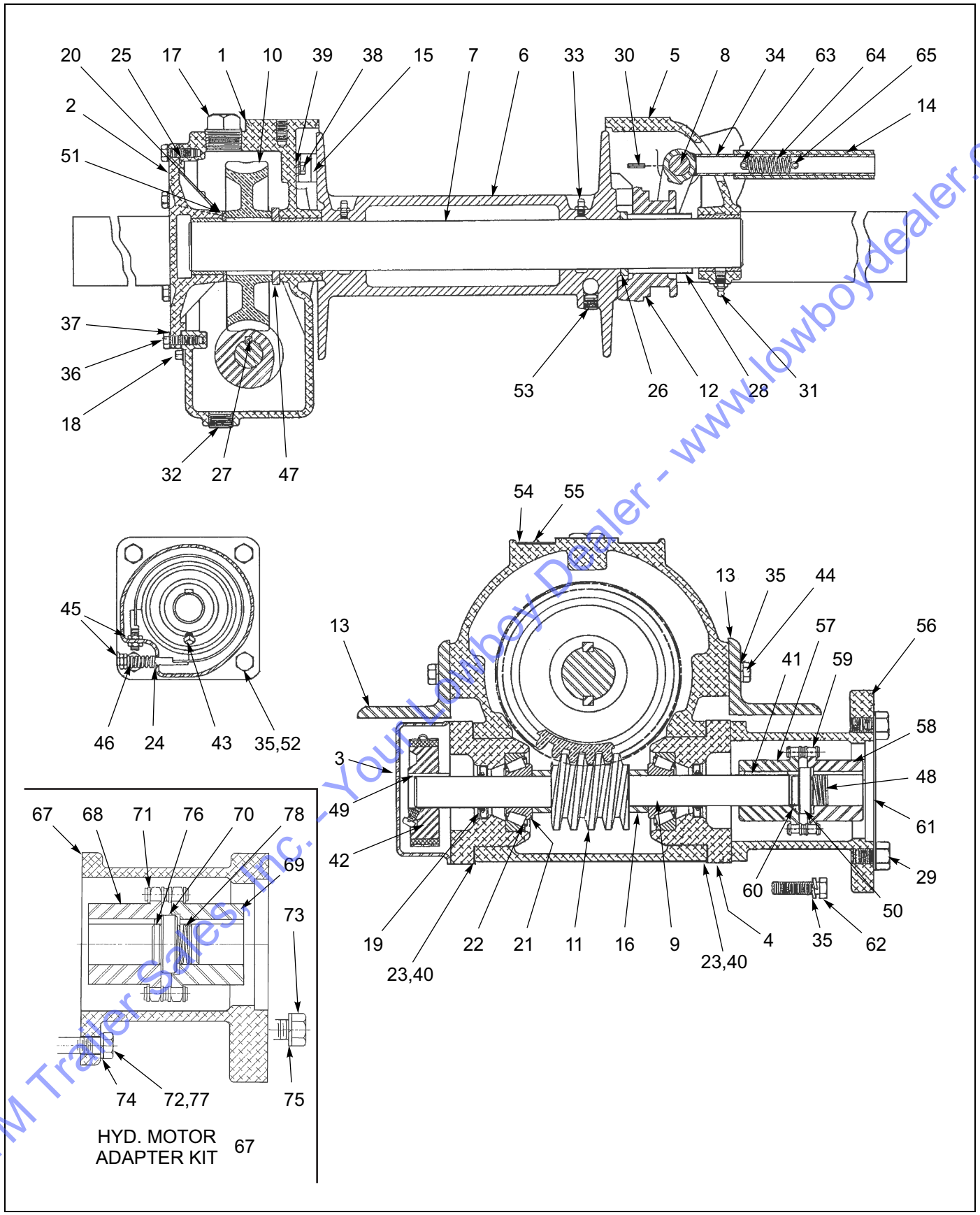
Figure 1-49: Winch Installation - 12K Spring Tension (BRADEN)

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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 1-27)**	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 1-101)**	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

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Figure 1-50: 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

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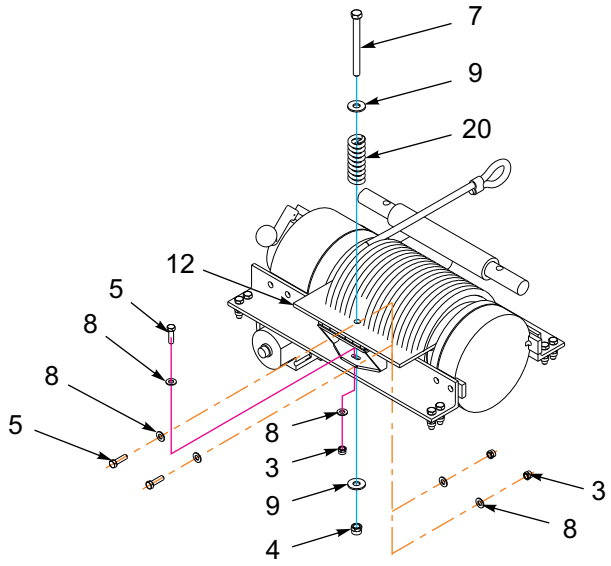
Winch Items - 12,000Lb. (BRADEN)

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

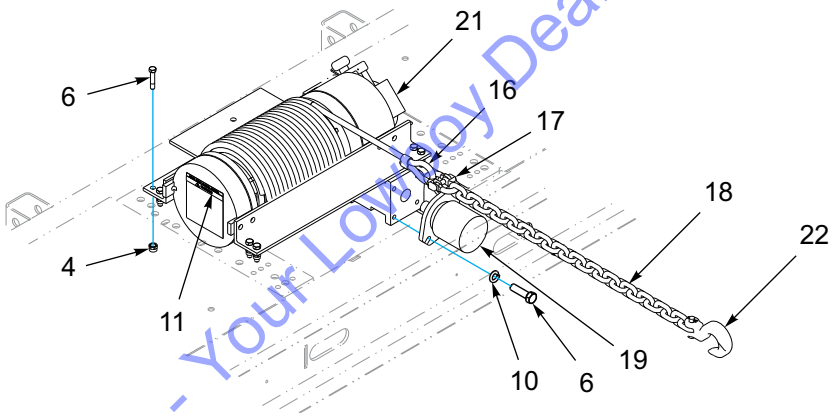
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Table provided for general use.

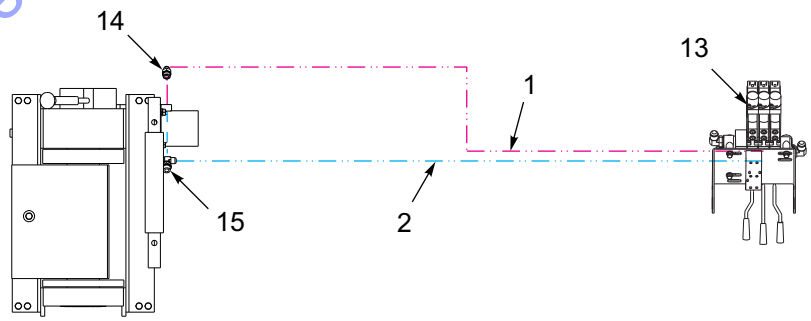
NOTES:



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

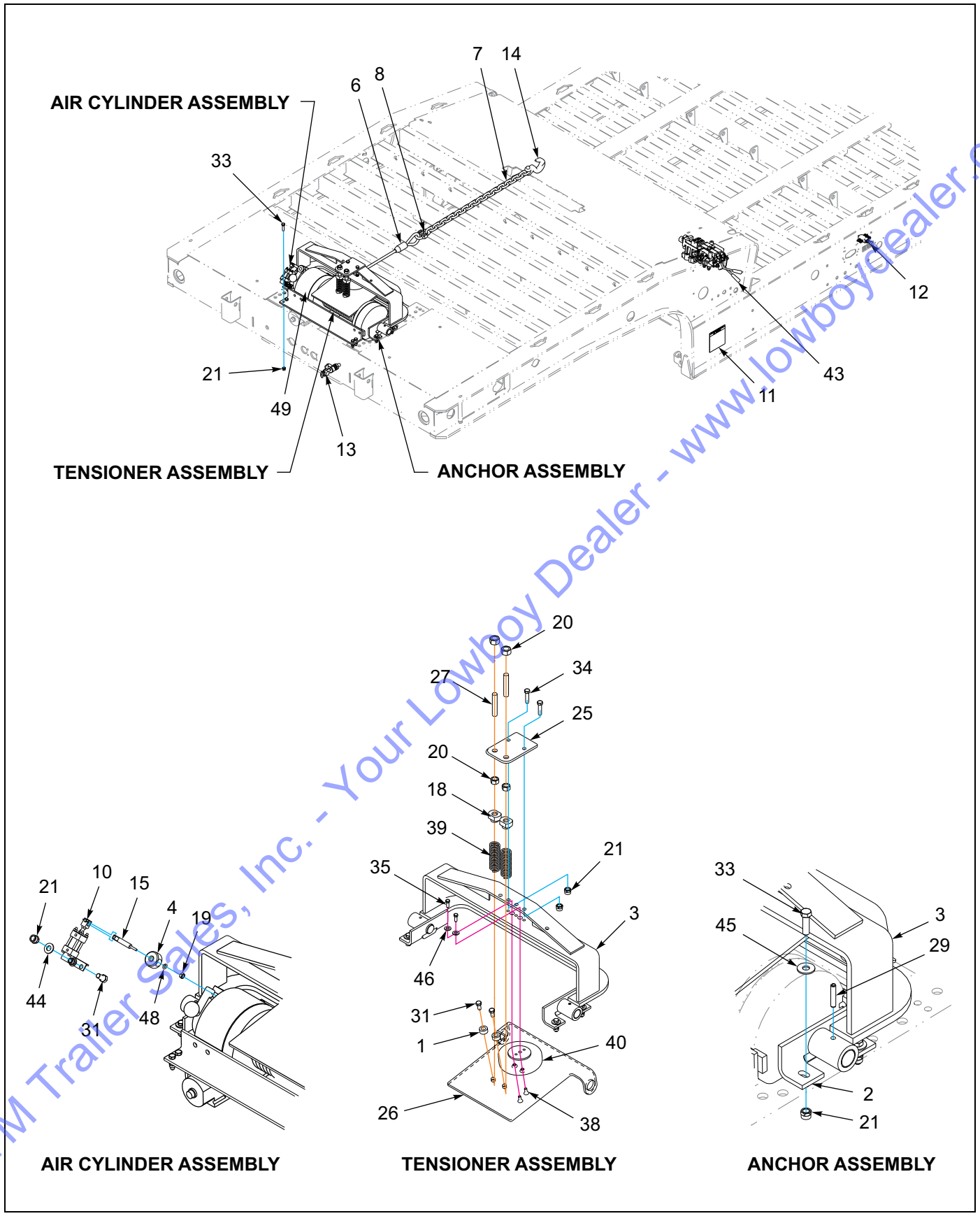
Figure 1-51: Winch Installation - 20K Spring Tension (BRADEN)

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Winch Installation - 20K Spring Tension (BRADEN)

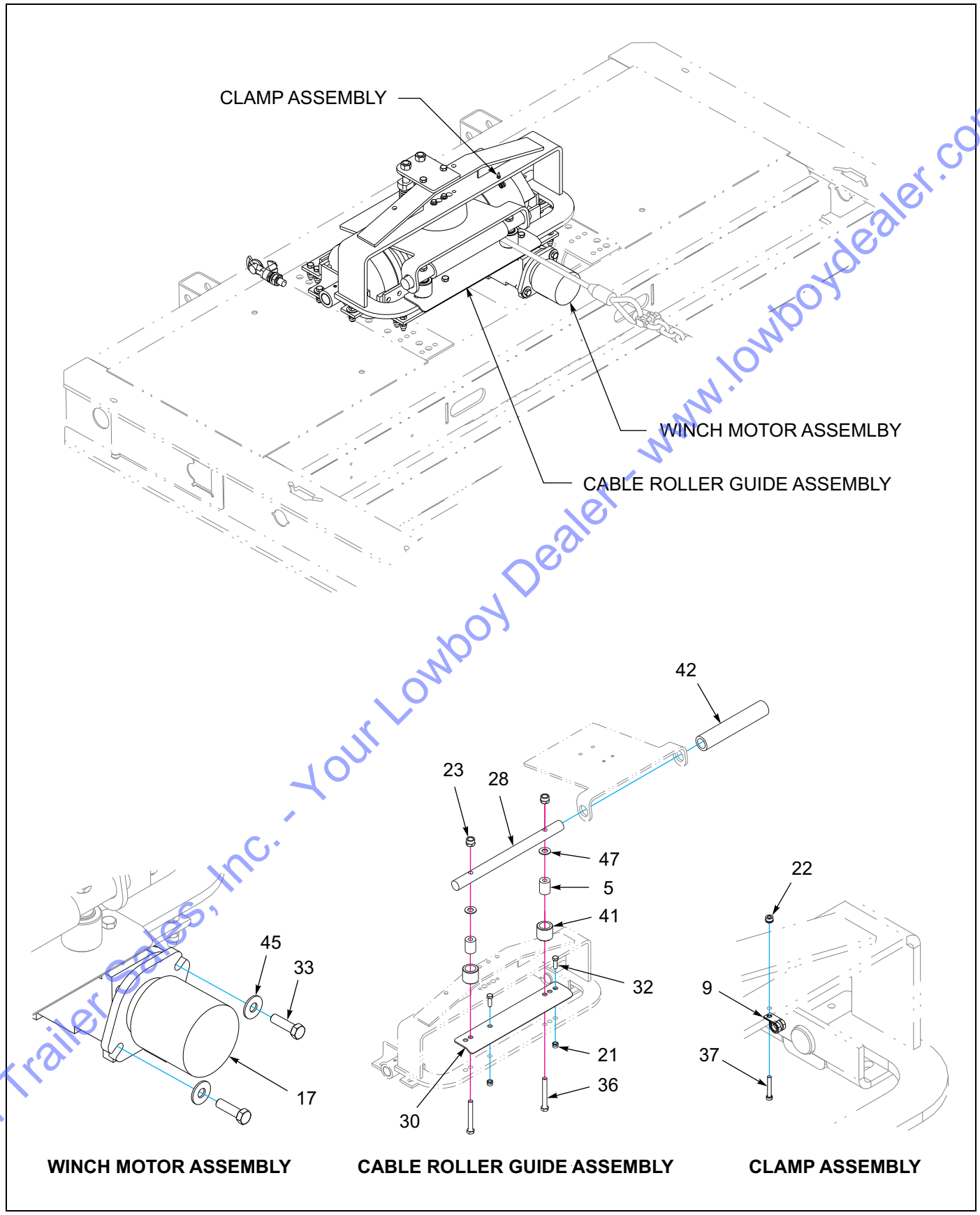
ITEM	PART NO.	DESCRIPTION	QTY
	3-873-010140-01	WINCH, 20K SPRING TENSION	
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 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 1-5)**	1
12	102186	WINCH TENSIONER, 20K BRADEN SPRING	1
13	148241	VALVE ASSEMBLY, 3-SPOOL 400 **(SEE PAGE 1-27)**	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 **(SEE PAGE 1-101)**	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010123	WINCH ASSEMBLY, 20,000LB. **(SEE PAGE 1-85)**	1
22	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

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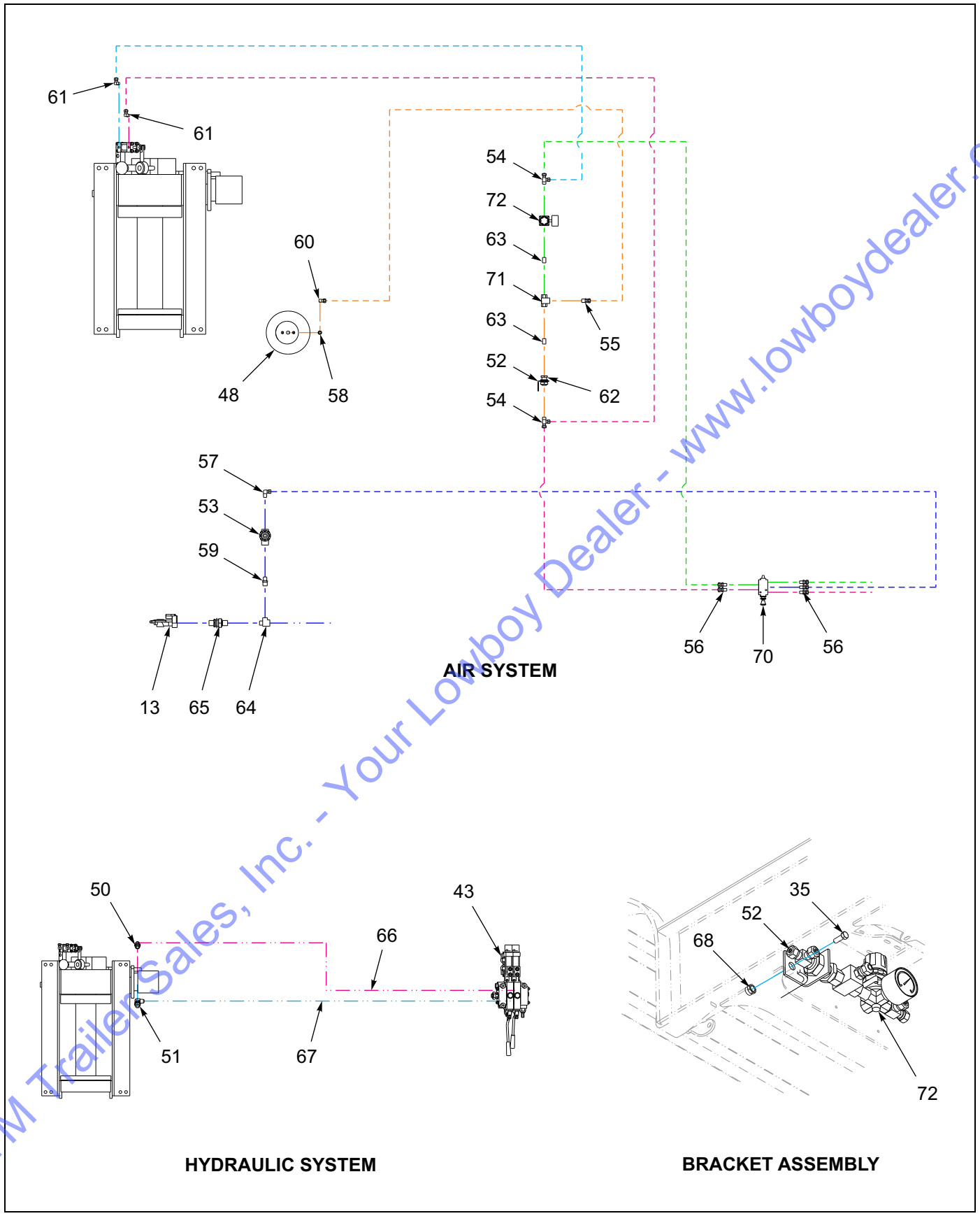
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Figure 1-52: Winch Installation - 20K Air Tension/Release (BRADEN) (1 of 3)



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Figure 1-53: Winch Installation - 20K Air Tension/Release (BRADEN) (2 of 3)



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Figure 1-54: Winch Installation - 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 1-99)**	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 1-101)**	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

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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 1-97)**	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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Table provided for general use.

NOTES:

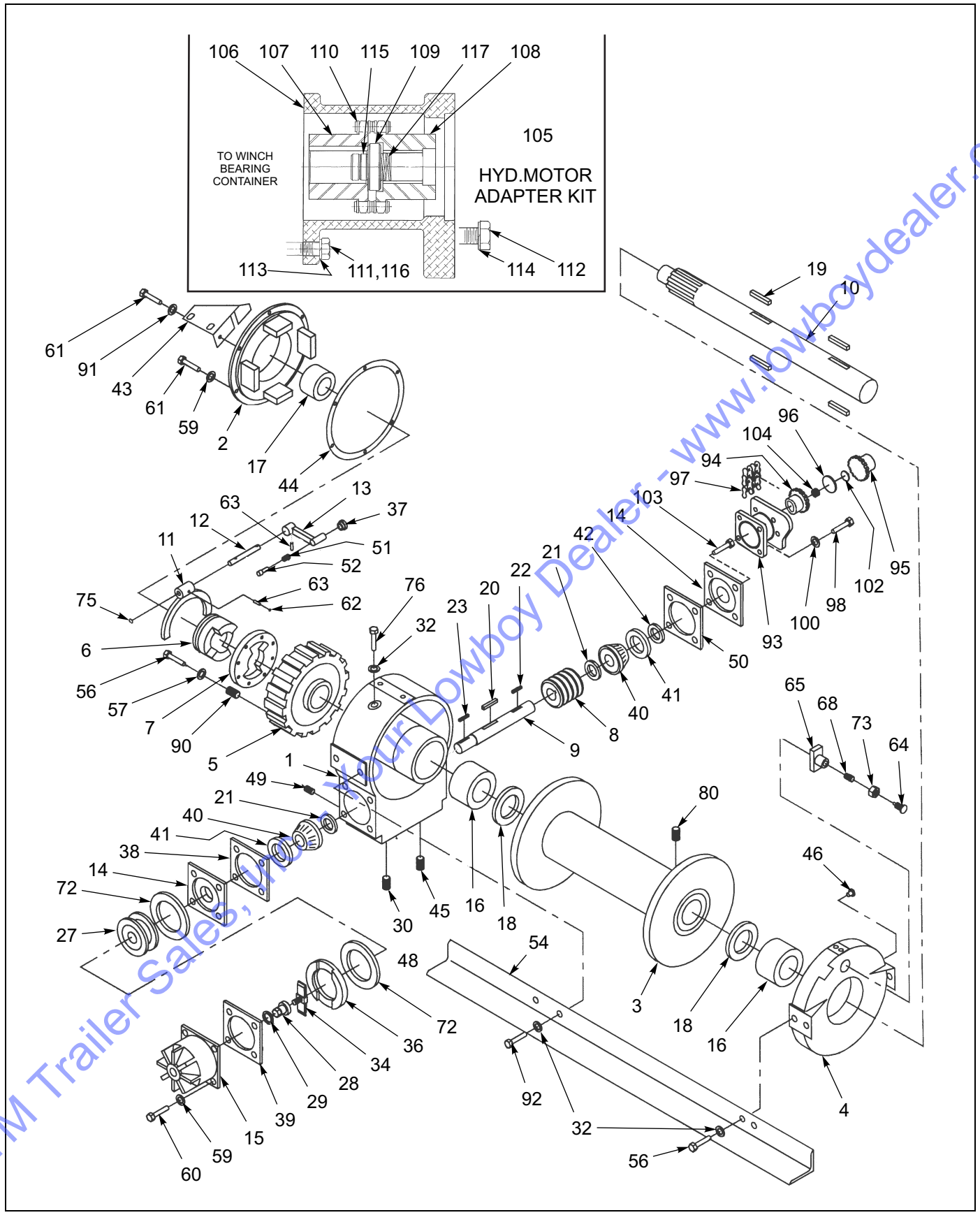


Figure 1-55: Winch Items - 20,000Lb. (BRADEN)

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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

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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	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

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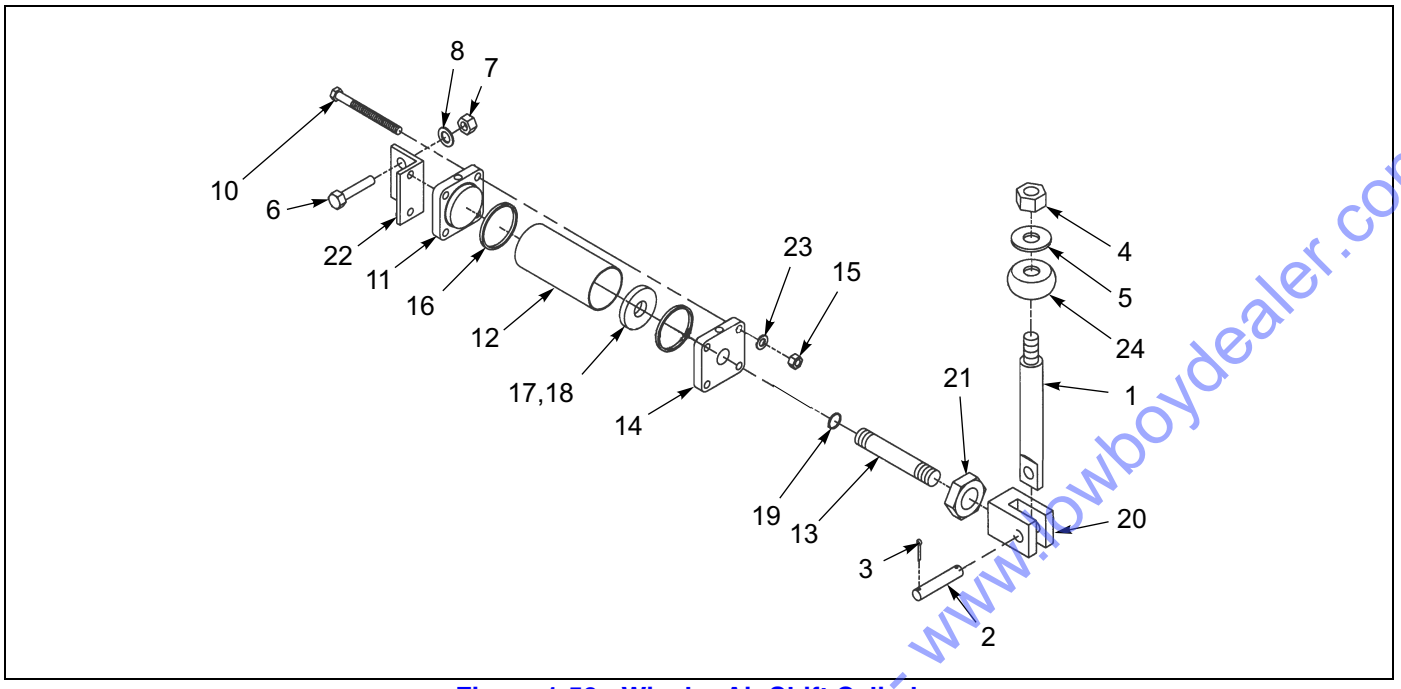
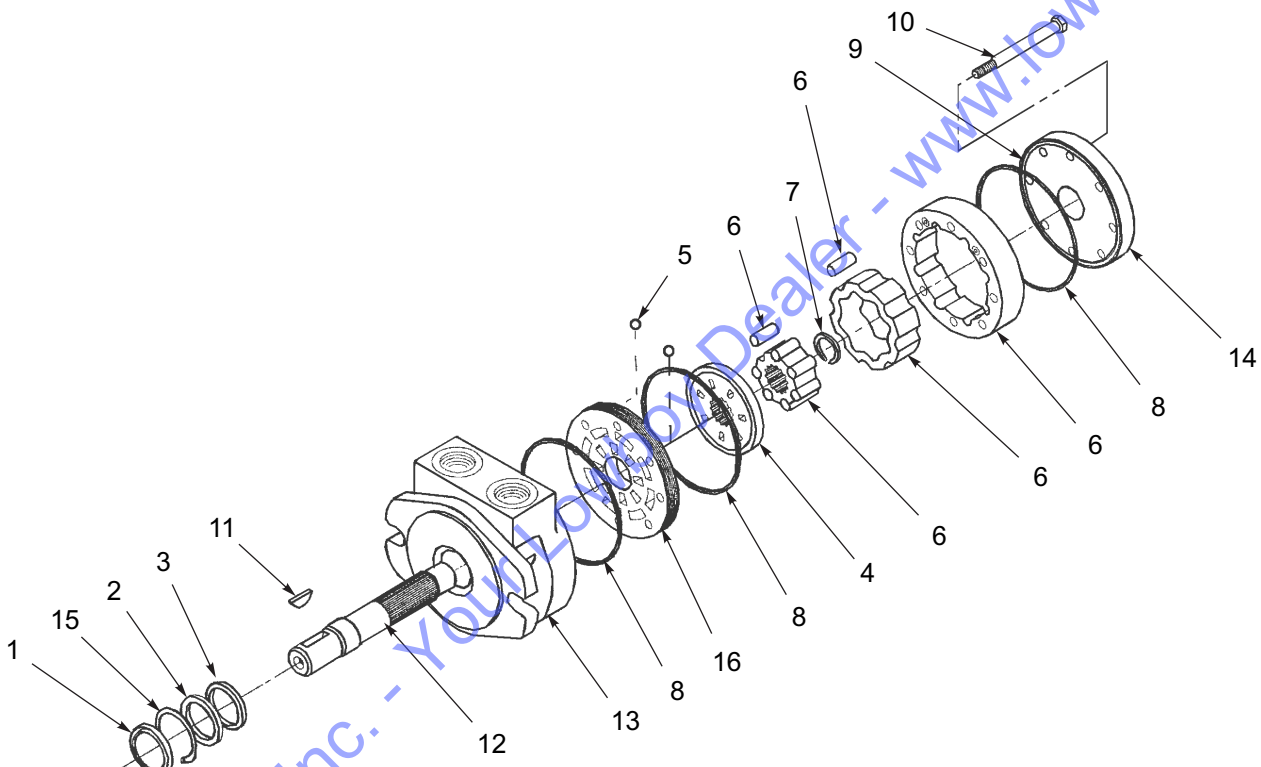


Figure 1-56: Winch - Air Shift Cylinder

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	

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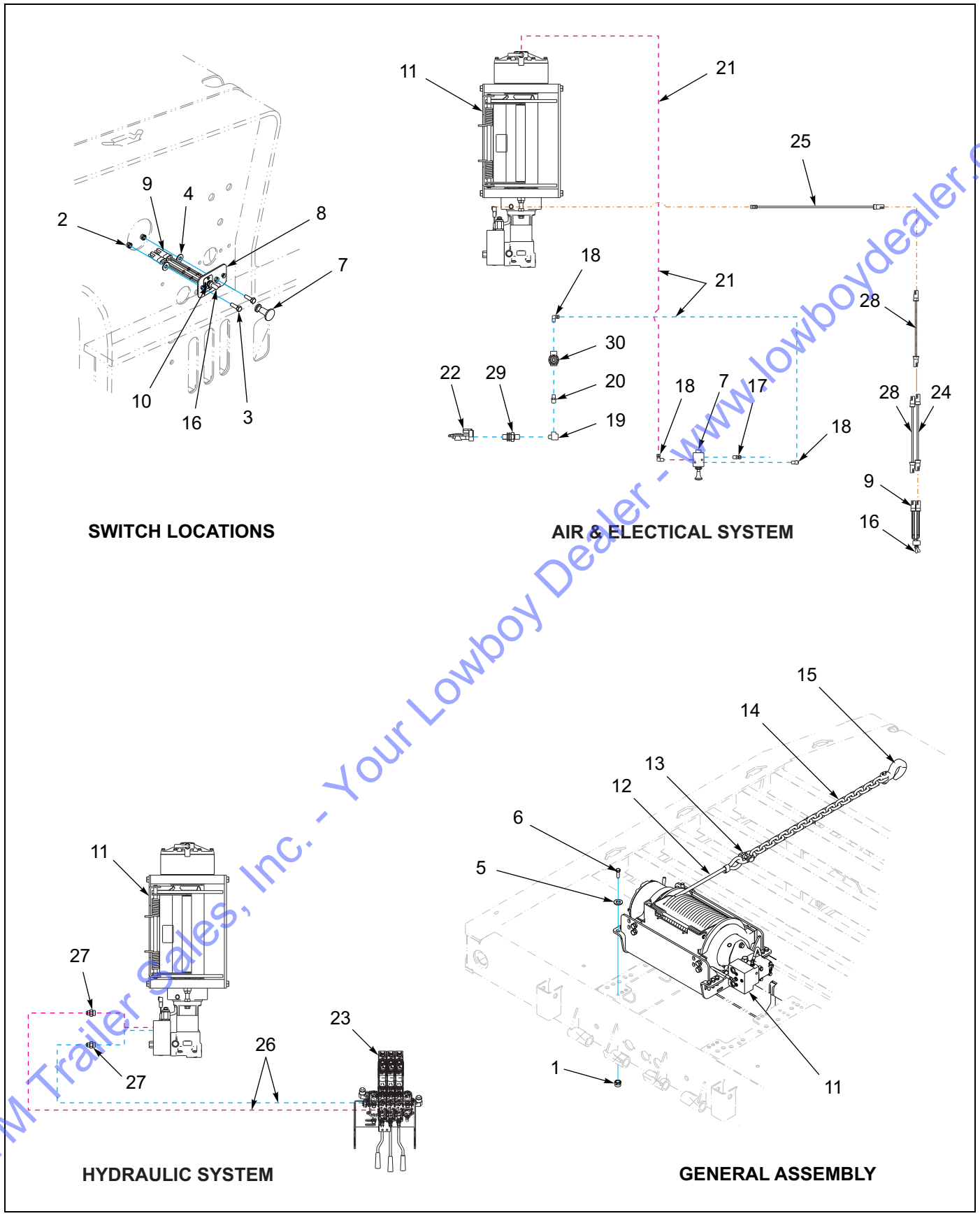
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Figure 1-57: Winch - Motor Assembly

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
	-----	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
	-----	1114-5	BOLTS HEX - 12K WINCH	8
11	-----	1655	KEY WOODRUFF	1
12	-----	2265-6	SHAFTFOR - 20K WINCH	1
	-----	2109-3	SHAFTFOR - 12K WINCH	1
13	-----	M110AB-4	BODY/BEARING ASSEMBLY - 20K WINCH	1
	-----	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
	2263	2263	SEAL KIT BODY	1
	-----	2480	SEAL KIT BODY VITON	1

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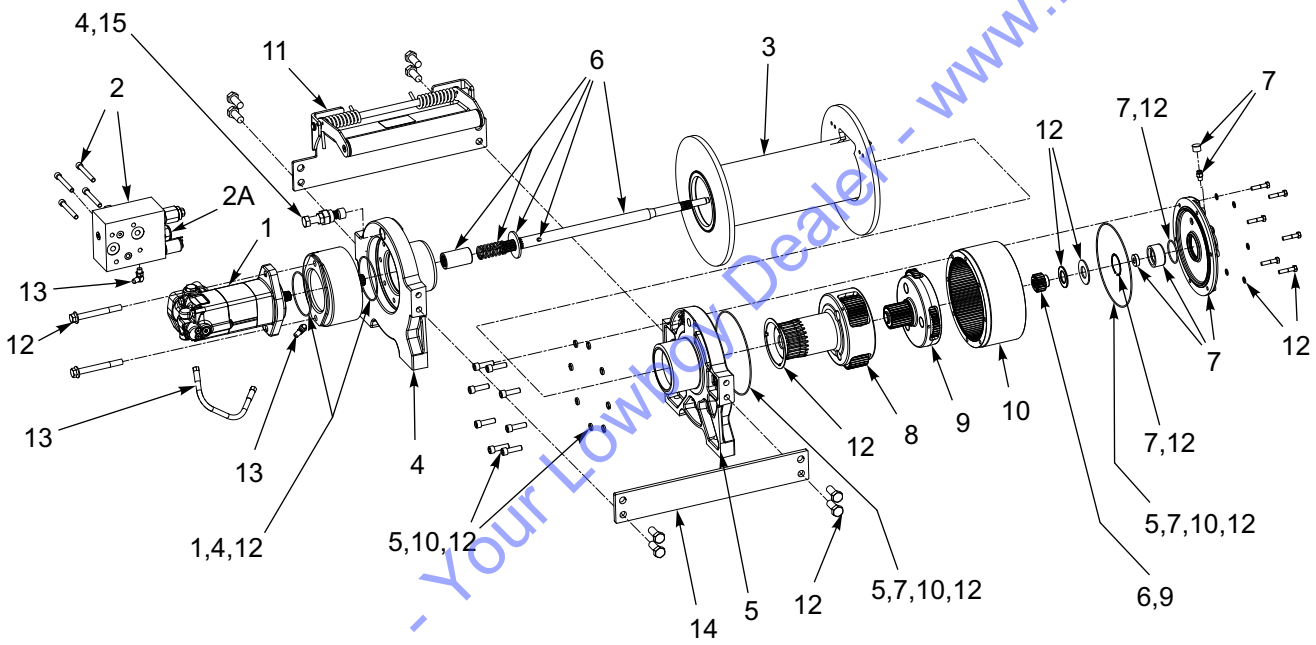
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Figure 1-58: Winch Installation - 20K 2 Speed (WARN)

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

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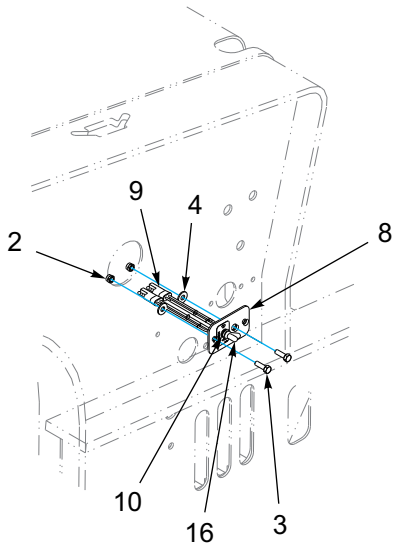
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Figure 1-59: Winch Items - 20K 2 Speed (WARN)

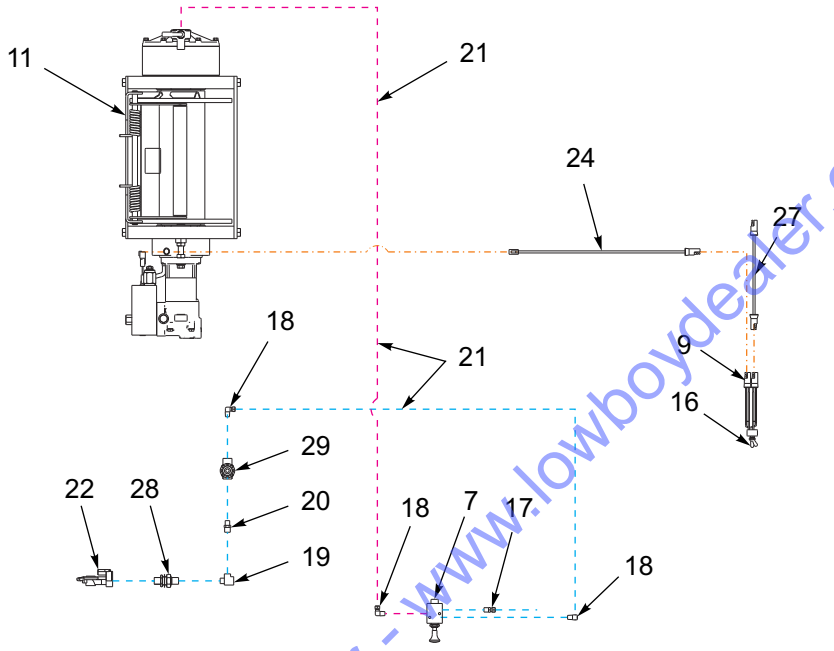
Winch Items - 20K 2 Speed (WARN)

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
2A	199104	SOLENOID FOR 2SP WARN, 20K-30K	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

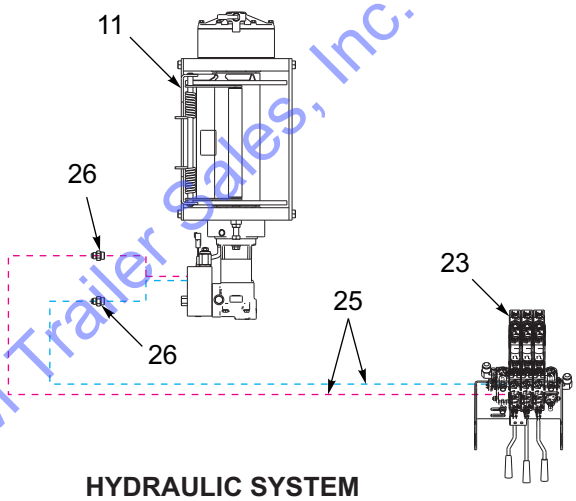
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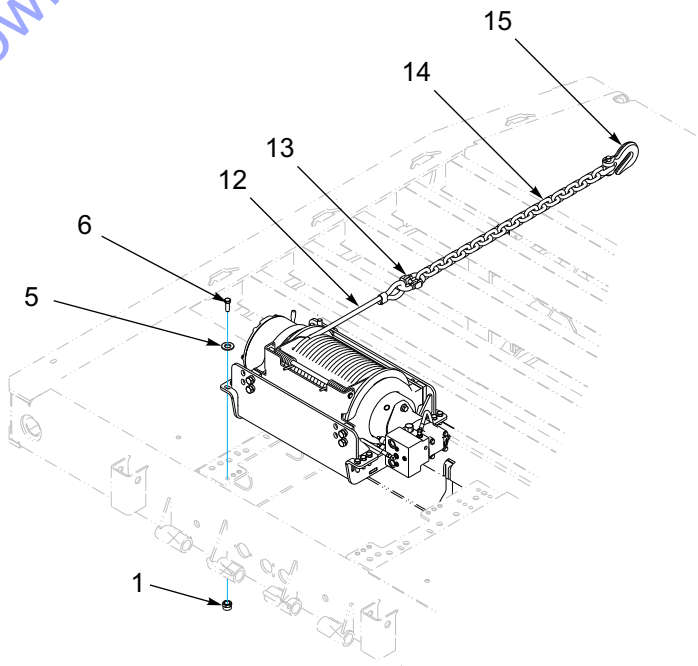
SWITCH LOCATIONS



AIR & ELECTICAL SYSTEM



HYDRAULIC SYSTEM



GENERAL ASSEMBLY

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Figure 1-60: Winch Installation - 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

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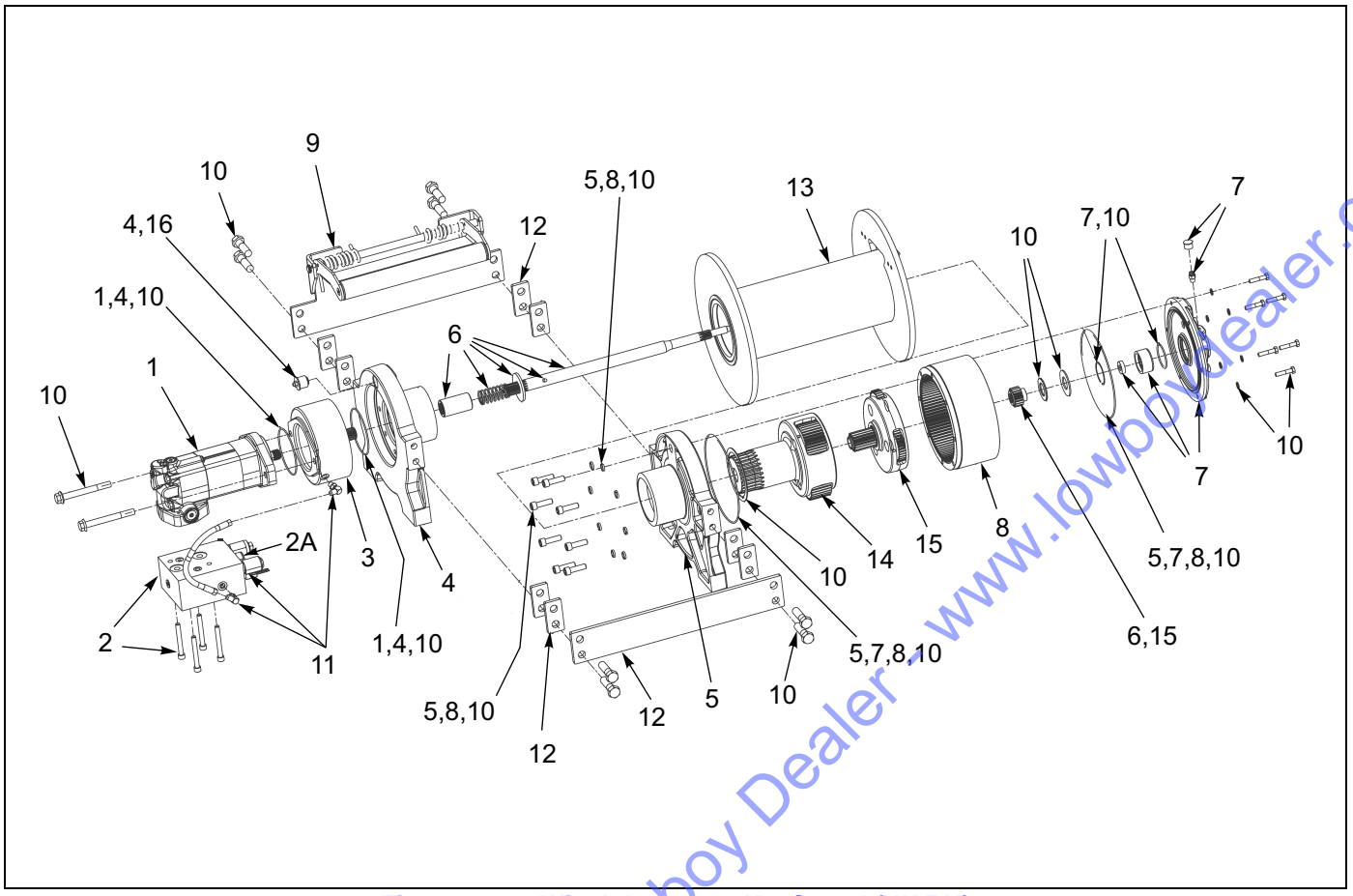


Figure 1-61: Winch Items - 30K 2 Speed (WARN)

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
2A	199104	SOLENOID FOR 2SP WARN, 20K-30K	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

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Landing Gear

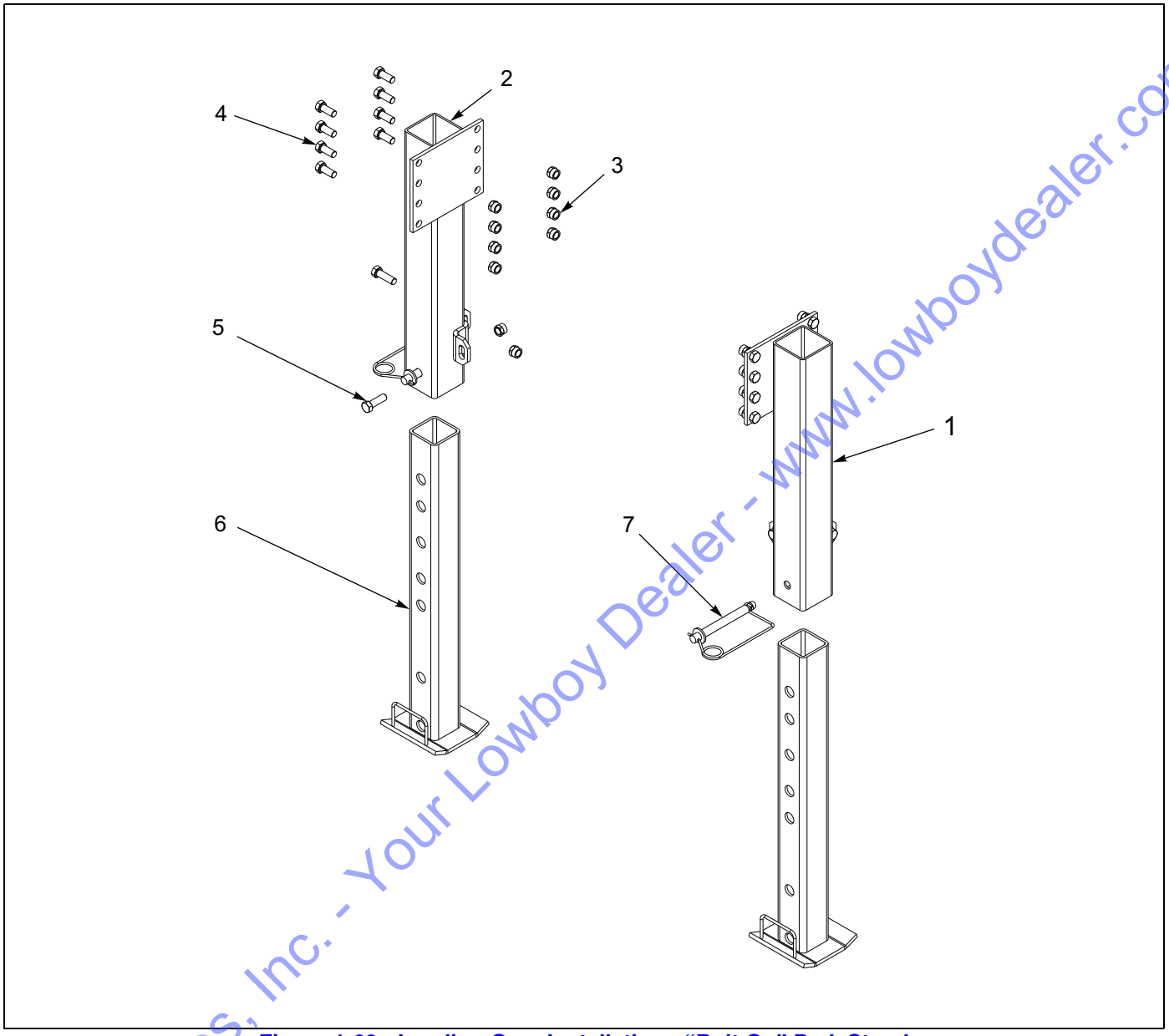
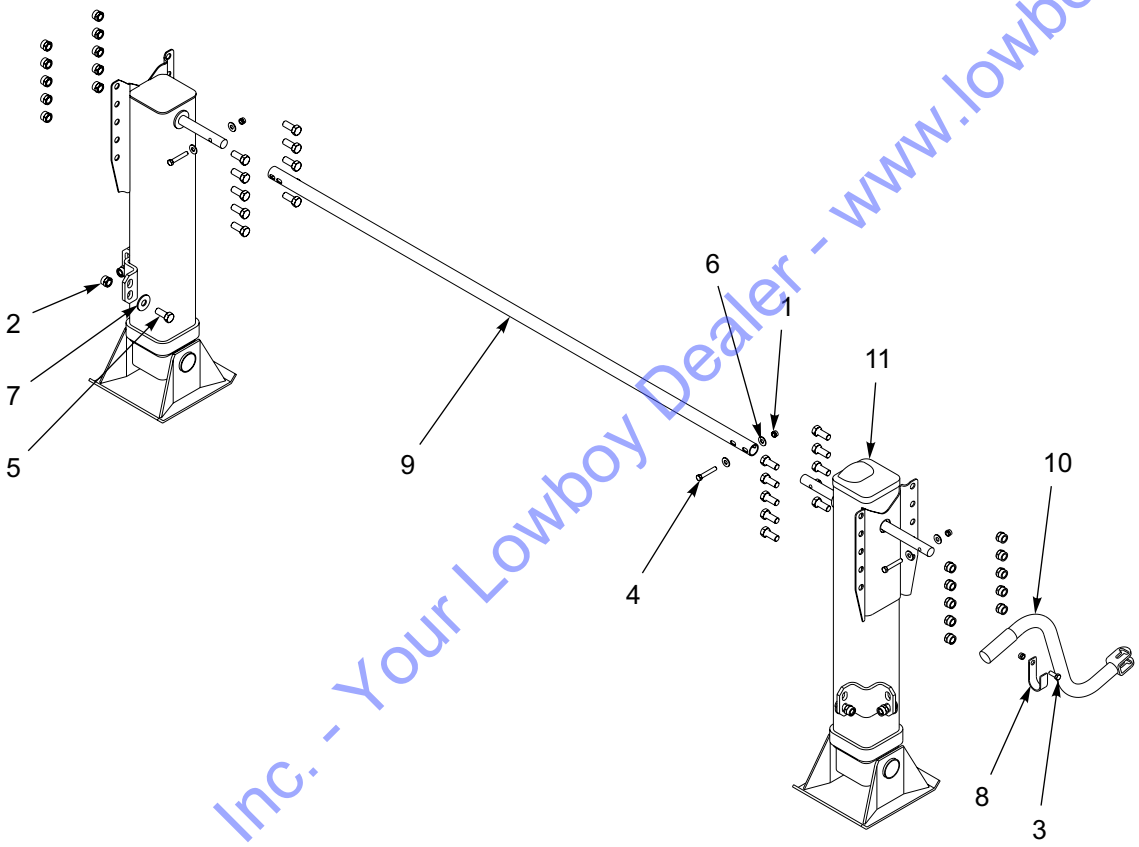


Figure 1-62: Landing Gear Installation - “Bolt On” Park Stand

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

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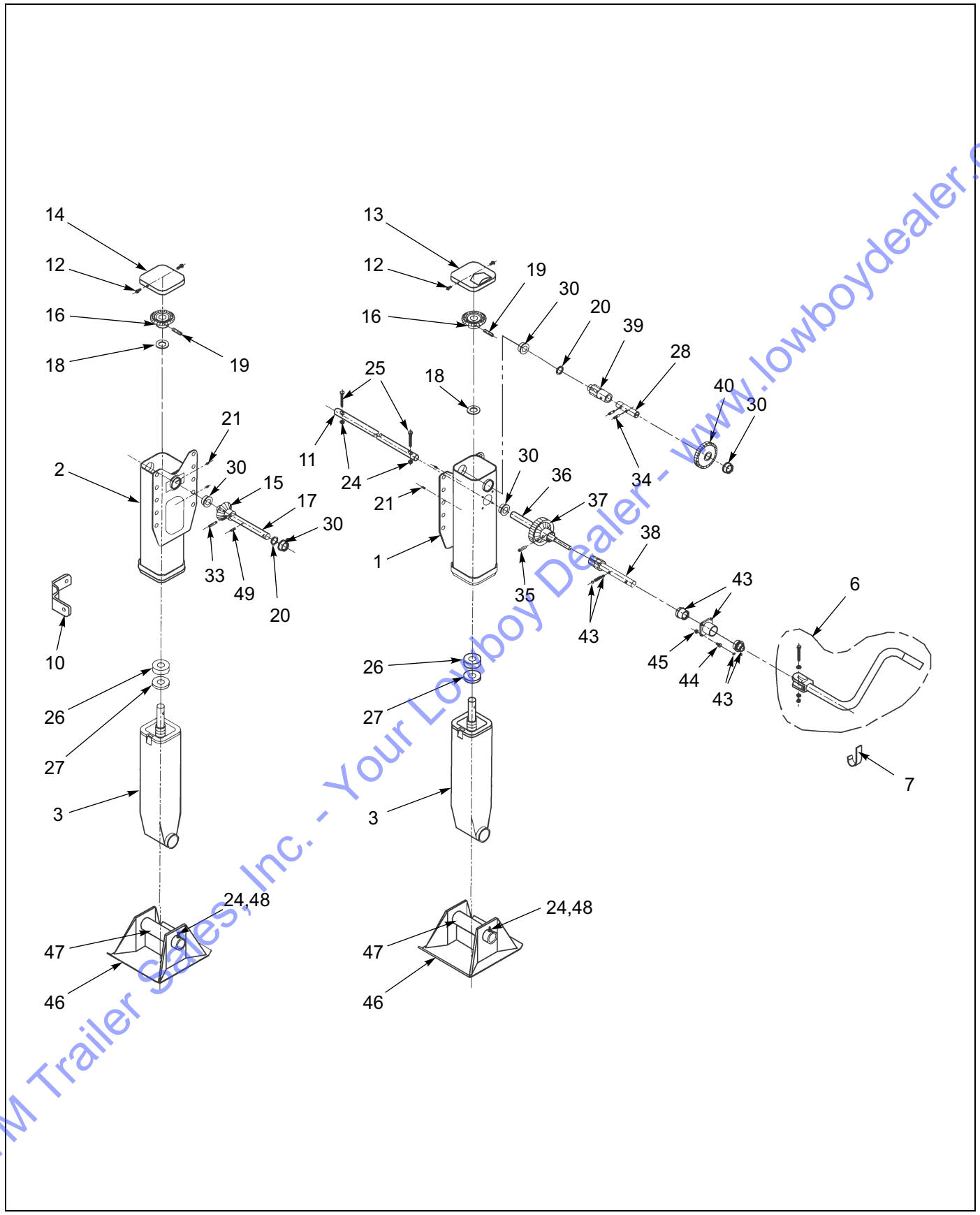
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Figure 1-63: Landing Gear Installation - Jost 410

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 1-113)**	1

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Figure 1-64: 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	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	-----	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	SHOE - 10 X 10 X 4-1/2	2
47	114983	B10036	SHOE AXLE	2
48	-----	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	1

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Dock Levelers

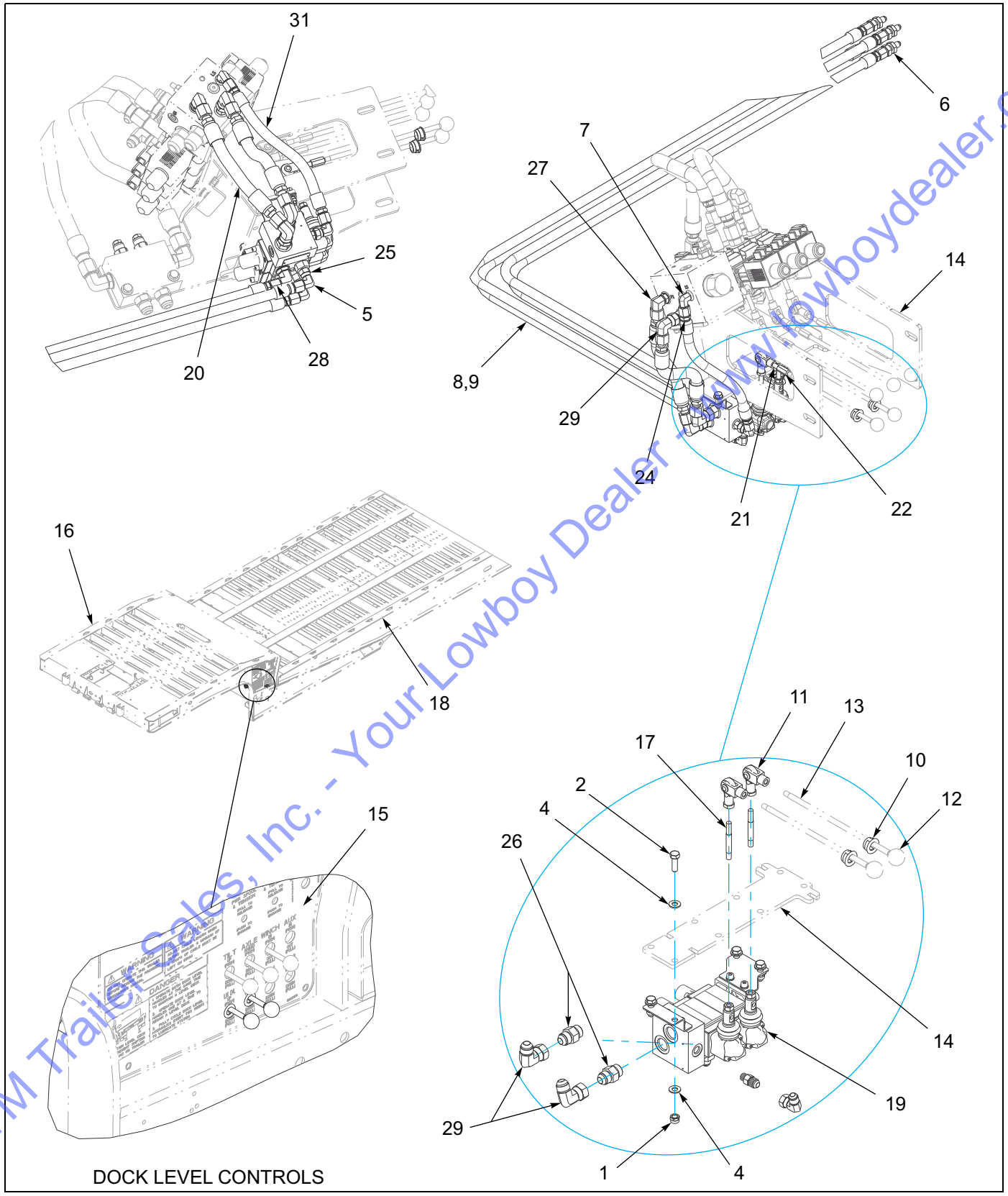


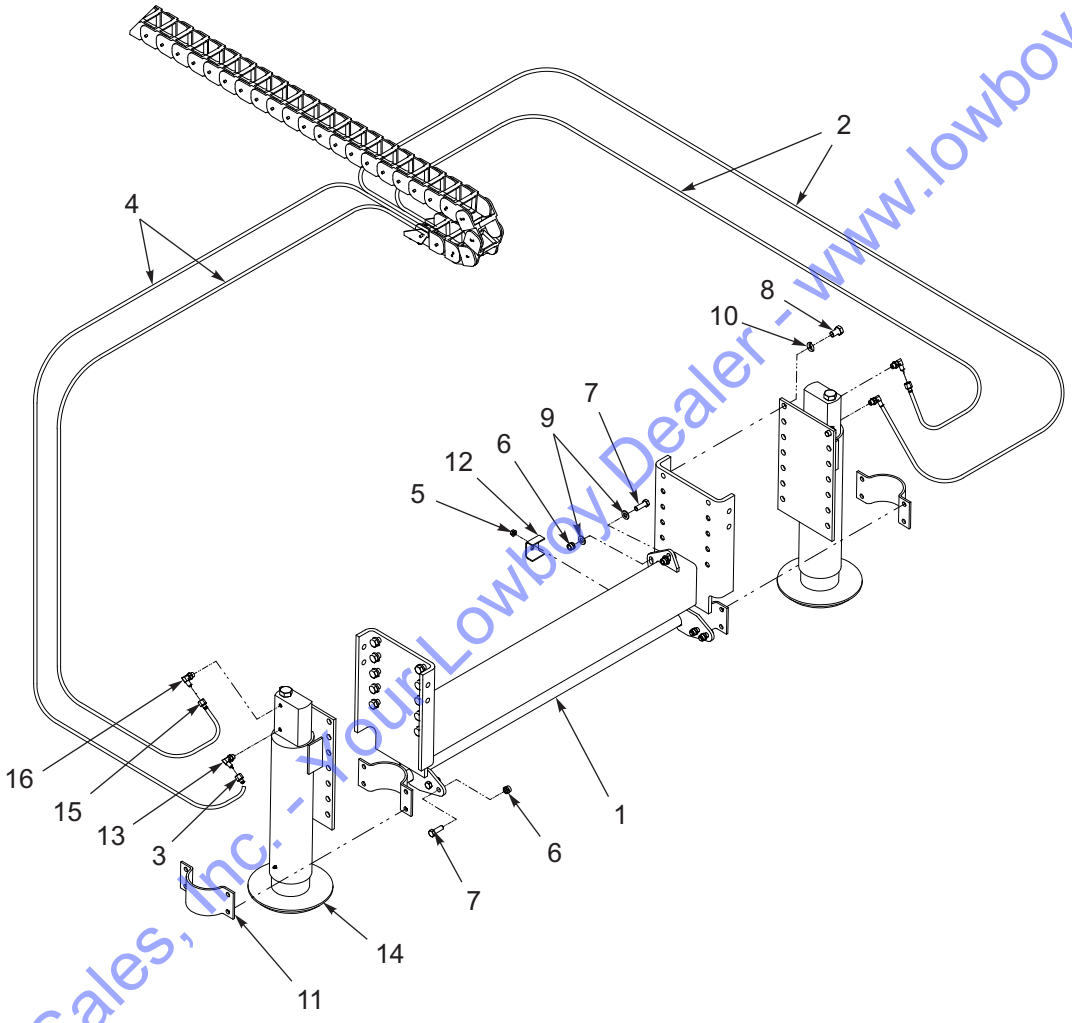
Figure 1-65: Dock Level Installation

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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	3-201-010002	CONDUIT 3/8 PLASTIC FLEX **(NOT SHOWN)**	3
31	51031-21	HOSE ASSY 3/8X12-7/8 SAE37STR	1

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Figure 1-66: Dock Leveler Assembly - Single 60K (440A)

Dock Leveler Assembly - Single 60K (440A)

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, 90° 3/8 ELBOW W/ RESTR	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 1-125)**	2
15	202702-6-4S	ADAPTER, STRAIGHT	2
16	138155	ADAPTER, 90	2
17	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR

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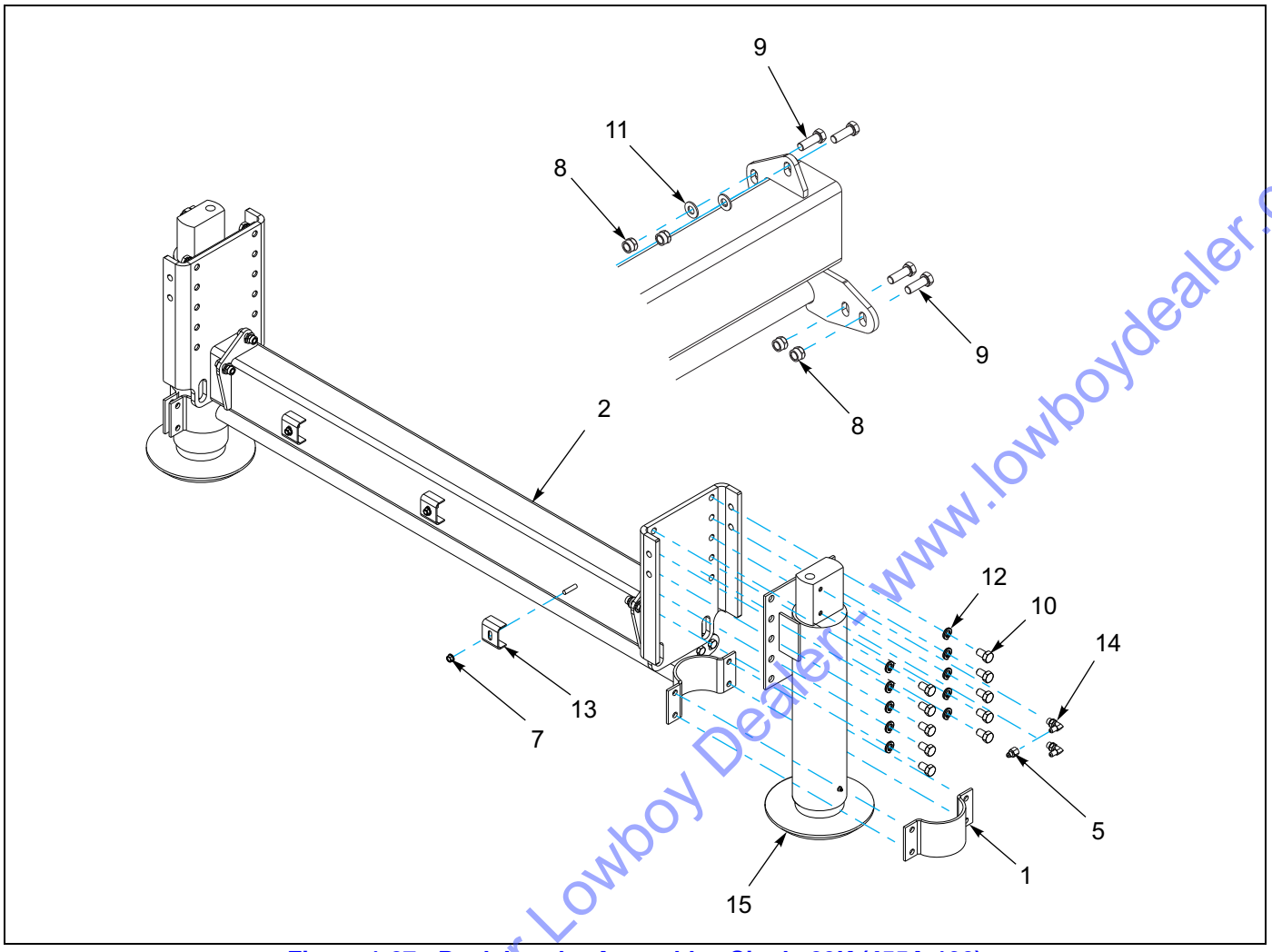


Figure 1-67: Dock Leveler Assembly - Single 60K (455A-120)

Dock Leveler Assembly - Single 60K (455A-120)

ITEM	PART NO.	DESCRIPTION	QTY.
	174179	DOCK LEVEL ASSEMBLY, 60K **(455-120)**	
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	174181	MOUNT WELDMENT, DOCK LEVEL	1
3	174184	HOSE ASSEMBLY, 1/4 X 232 **(TO STREETSIDE CYLINDER)**	2
4	174185	HOSE ASSEMBLY, 1/4 X 270 **(TO CURBSIDE CYLINDER)**	2
5	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	2
6	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	2-181-010001	CLAMP, HOSE	3
14	2062-6-4S	ADAPTER, 90	4
15	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-125)**	2

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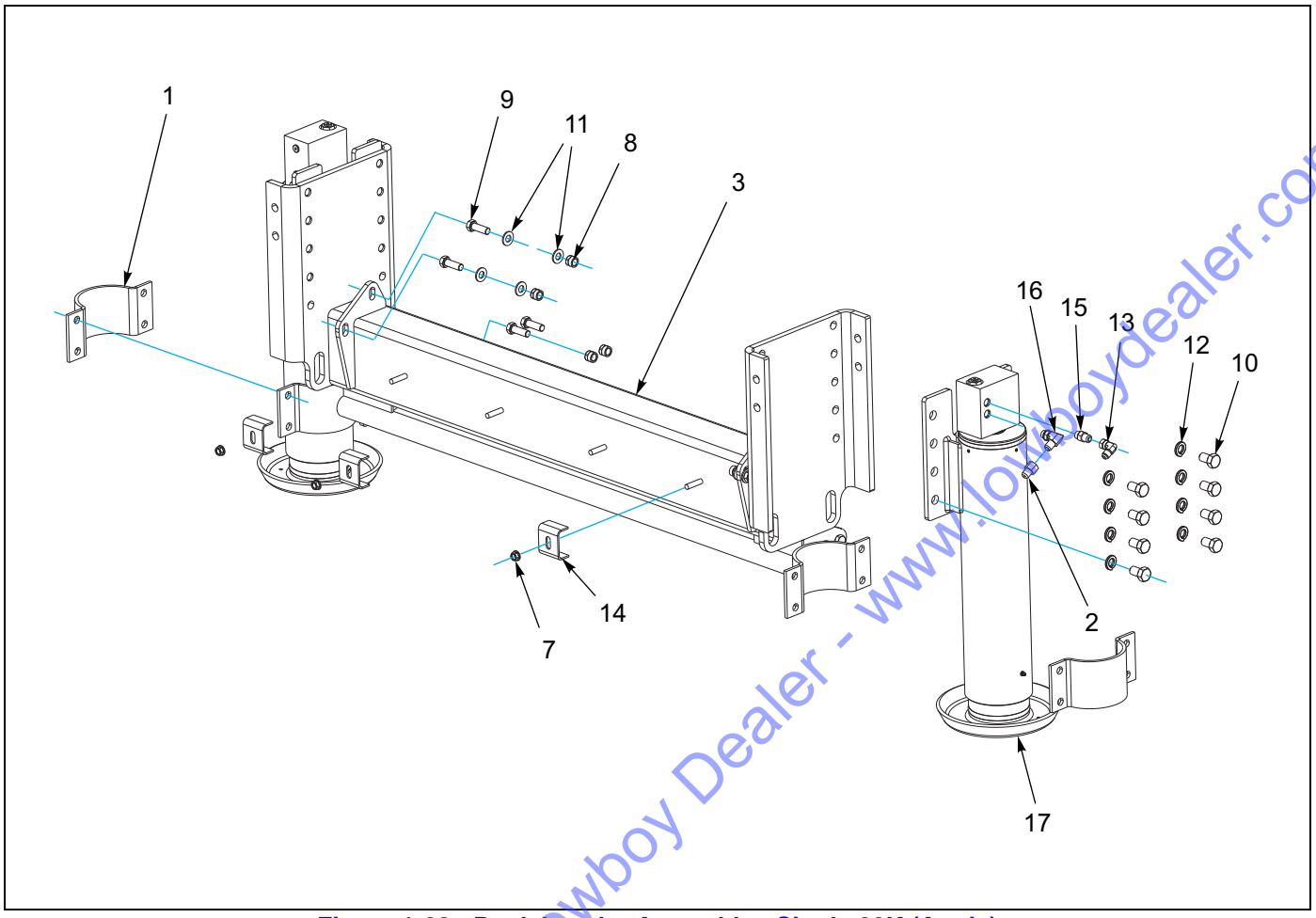


Figure 1-68: Dock Leveler Assembly - Single 60K (Arctic)

Dock Leveler Assembly - Single 60K (Arctic)

ITEM	PART NO.	DESCRIPTION	QTY.
	172775	DOCK LEVEL ASSEMBLY SINGLE 60K ARCTIC	
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	118165	ADAPTER, HYDRAULIC W/ 3/32 RESTRICTOR	2
3	121402	MOUNT WELDMENT, D/L	1
4	172776	HOSE ASSEMBLY, 3/8 X 240 ARCTIC **(TO CURBSIDE CYLINDER)**	2
5	172848	HOSE ASSEMBLY, 3/8 X 216 ARCTIC **(TO STREETSIDE CYLINDER)**	2
6	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	102-0031	ADAPTER, 90	2
14	2-181-010001	CLAMP, HOSE	3
15	202702-6-6S	ADAPTER, STRAIGHT	2
16	2062-6-6S	ADAPTER, 90	2
17	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-125)**	2

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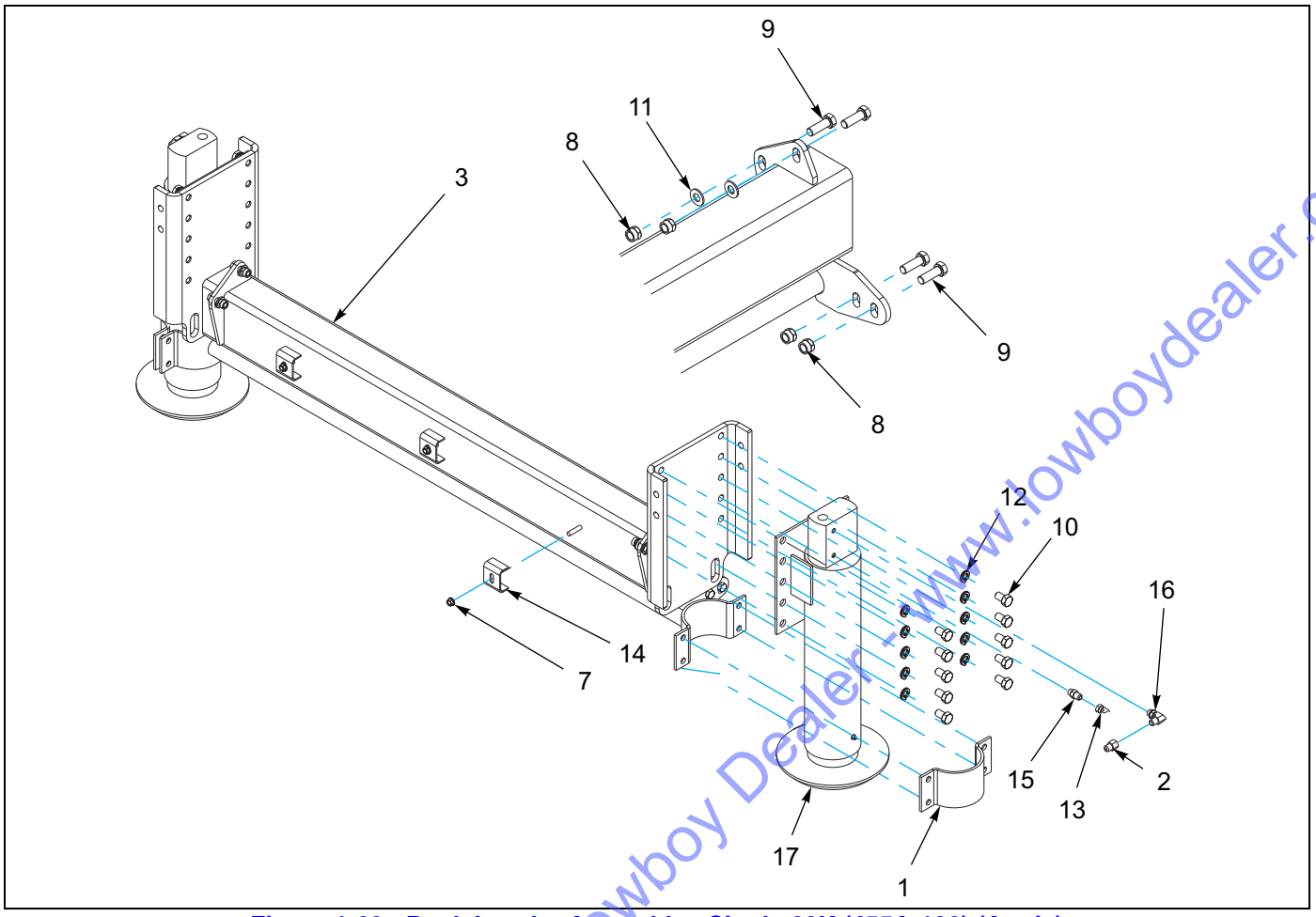


Figure 1-69: Dock Leveler Assembly - Single 60K (455A-120) (Arctic)

Dock Leveler Assembly - Single 60K (455A-120) (Arctic)

ITEM	PART NO.	DESCRIPTION	QTY.
	174180	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	100348	MOUNTING BRACKET FOR CYLINDER	REF
2	118165	ADAPTER, HYDRAULIC W/ 3/32 RESTRICTOR	2
3	174181	MOUNT WELDMENT, DOCK LEVEL	1
4	174186	HOSE ASSEMBLY, 3/8 X 232 ARCTIC **(TO STREETSIDE CYLINDER)**	2
5	174187	HOSE ASSEMBLY, 3/8 X 270 ARCTIC **(TO CURBSIDE CYLINDER)**	2
6	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	AR
7	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	3
8	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
9	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
10	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	20
11	1-861-010032-14	WASHER, FLAT 1/2N	8
12	1-861-010034-15	WASHER, SPLIT LOCK 5/8	20
13	102-0031	ADAPTER, 90	2
14	2-181-010001	CLAMP, HOSE	3
15	202702-6-6S	ADAPTER, STRAIGHT	2
16	2062-6-6S	ADAPTER, 90	2
17	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR) (SEE PAGE 1-125)**	2

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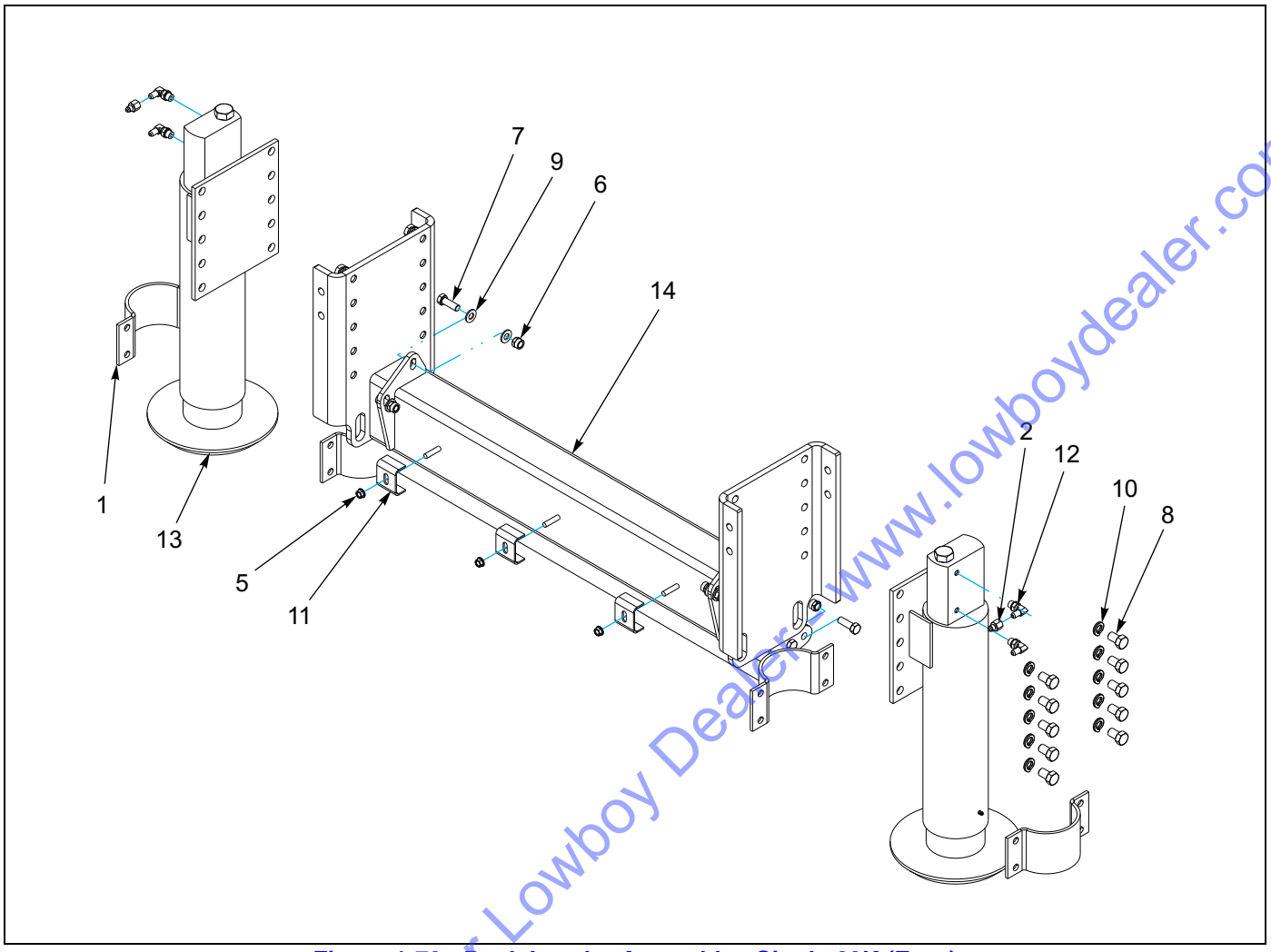


Figure 1-70: Dock Leveler Assembly - Single 60K (Euro)

Dock Leveler Assembly - Single 60K (Euro)

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 1-125)**	2
14	3-482-010472	MOUNT WELDMENT, DOCK LEVEL 60K	1
15	122540	HOSE ASSEMBLY 1/4 X 240 **(NOT SHOWN)**	2

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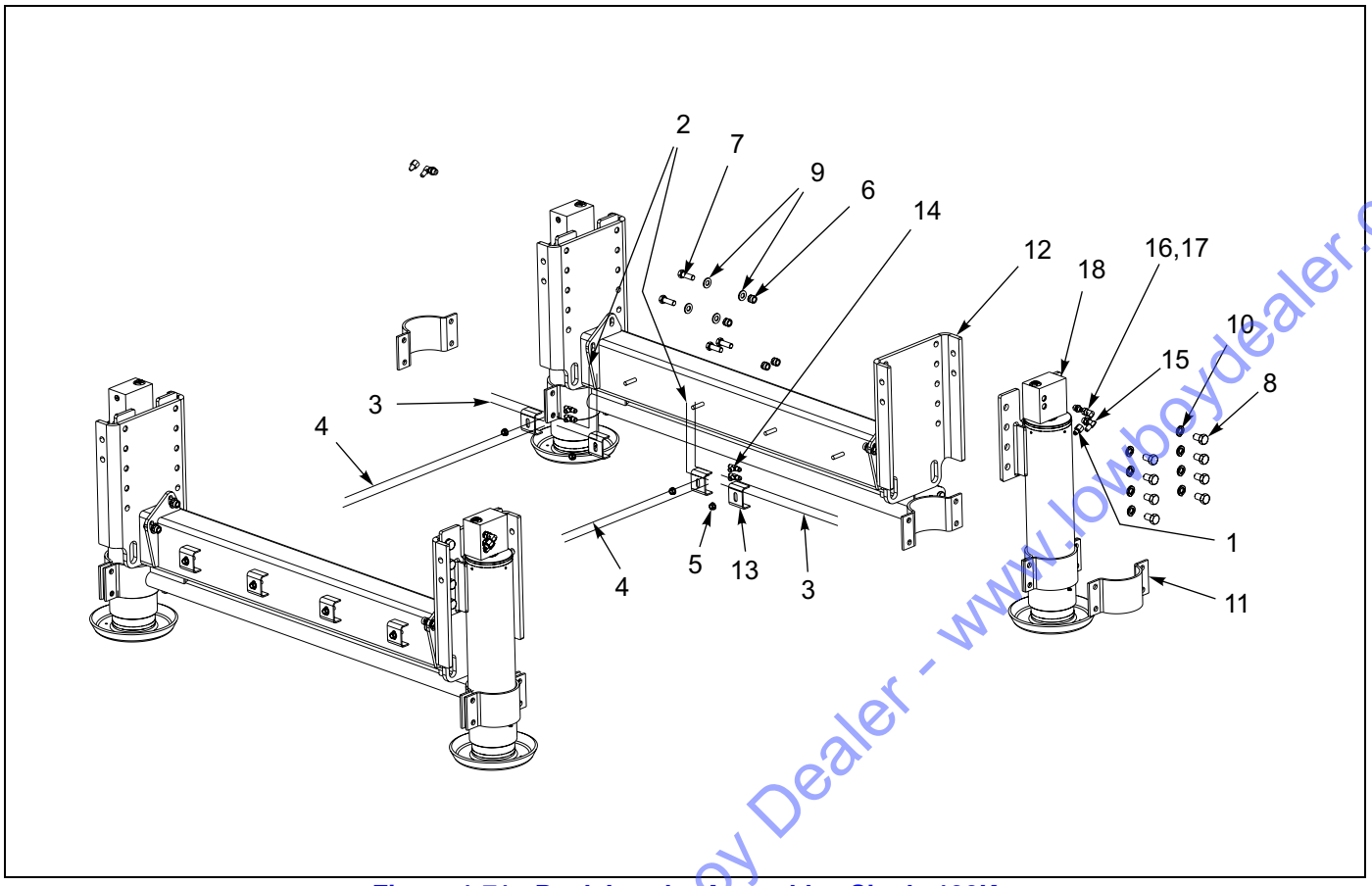
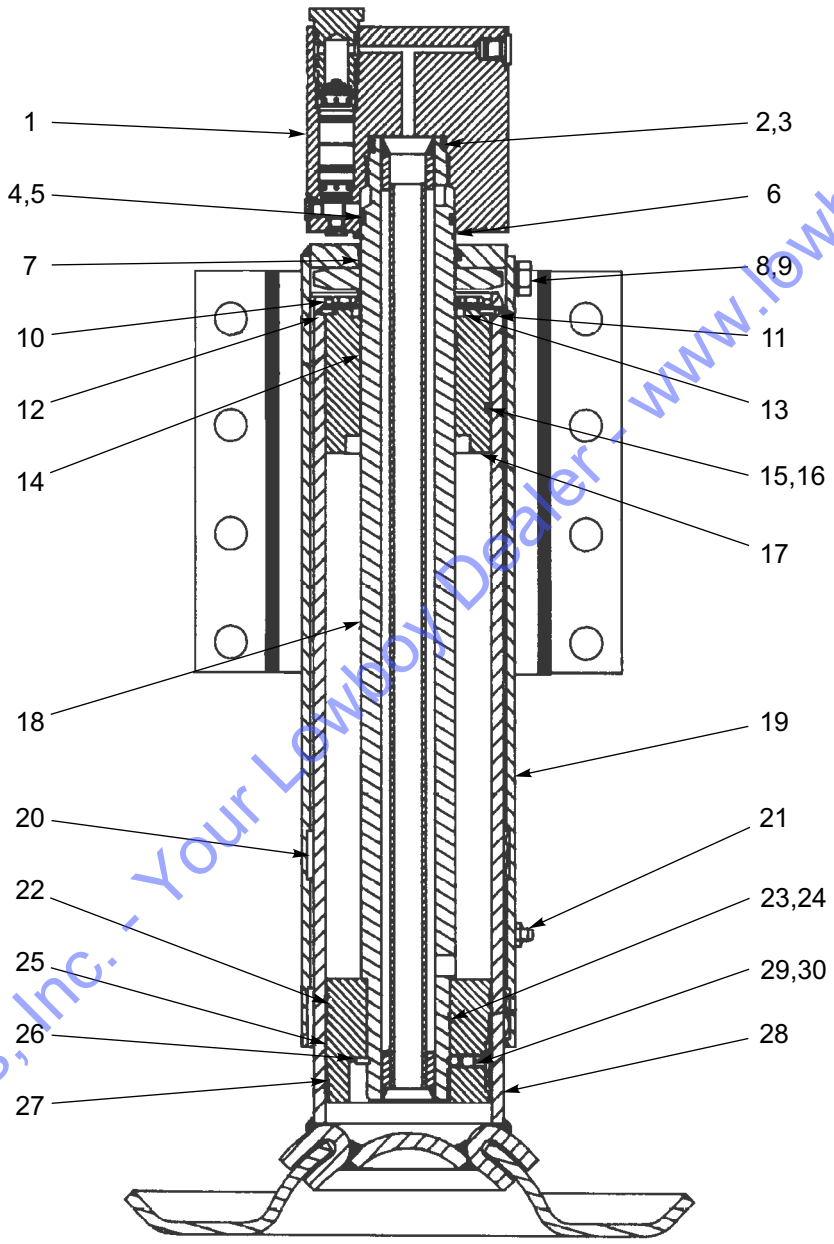


Figure 1-71: Dock Leveler Assembly - Single 120K

Dock Leveler Assembly - Single 120K

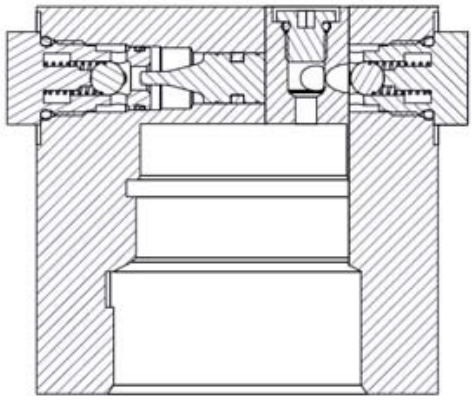
ITEM	PART NO.	DESCRIPTION	QTY.
	126537	DOCK LEVEL ASSEMBLY SINGLE 120K	
1	1-007-010058	ADAPTER, 90° 3/8 ELBOW W/ RESTR	4
2	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	4
3	1-397-010262028	HOSE ASSEMBLY 1/4 X 28	4
4	1-397-010262100	HOSE ASSEMBLY 1/4 X 100	2
5	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	8
6	1-512-010005-09	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 1-125)**	4
19	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR

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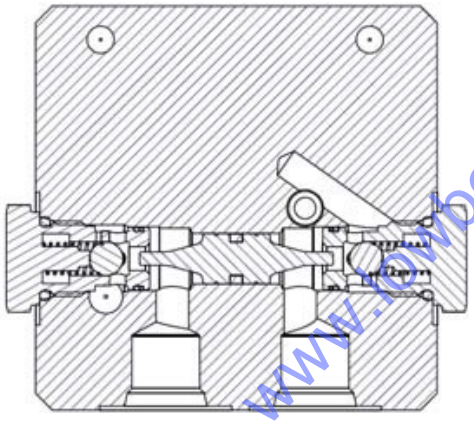


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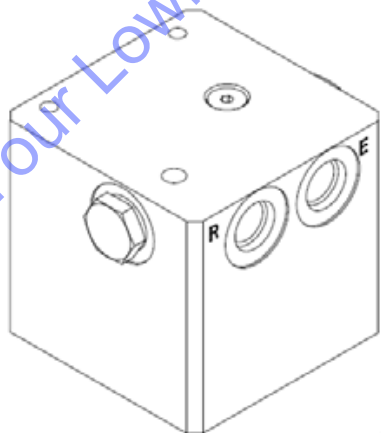
Figure 1-72: Dock Leveler Leg Assembly - W/ Lock Valve (1 of 2)



FRONT SECTION



TOP SECTION



STABILIZER LEG
COUNTER BALANCE VALVE

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Figure 1-73: Dock Leveler Leg Assembly - W/ Lock Valve (2 of 2)

Dock Leveler Leg Assembly - W/ Lock Valve

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

NOTE: P/N 100348 IS A NON SERVICABLE PART.

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Dock Leveler Leg Assembly - W/ Lock Valve

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION

* - THESE ITEMS ARE CONTAINED IN THE LOCK VALVE REPAIR KIT 300085 (NSS).

** - ITEMS ARE CONTAINED IN LEG REPAIR KIT 100422 (4.00" BORE) (NSS).

*** STATE MODEL NUMBER AND PART DESCRIPTION WHEN ORDERING.

NSS: NOT SOLD SEPARATELY

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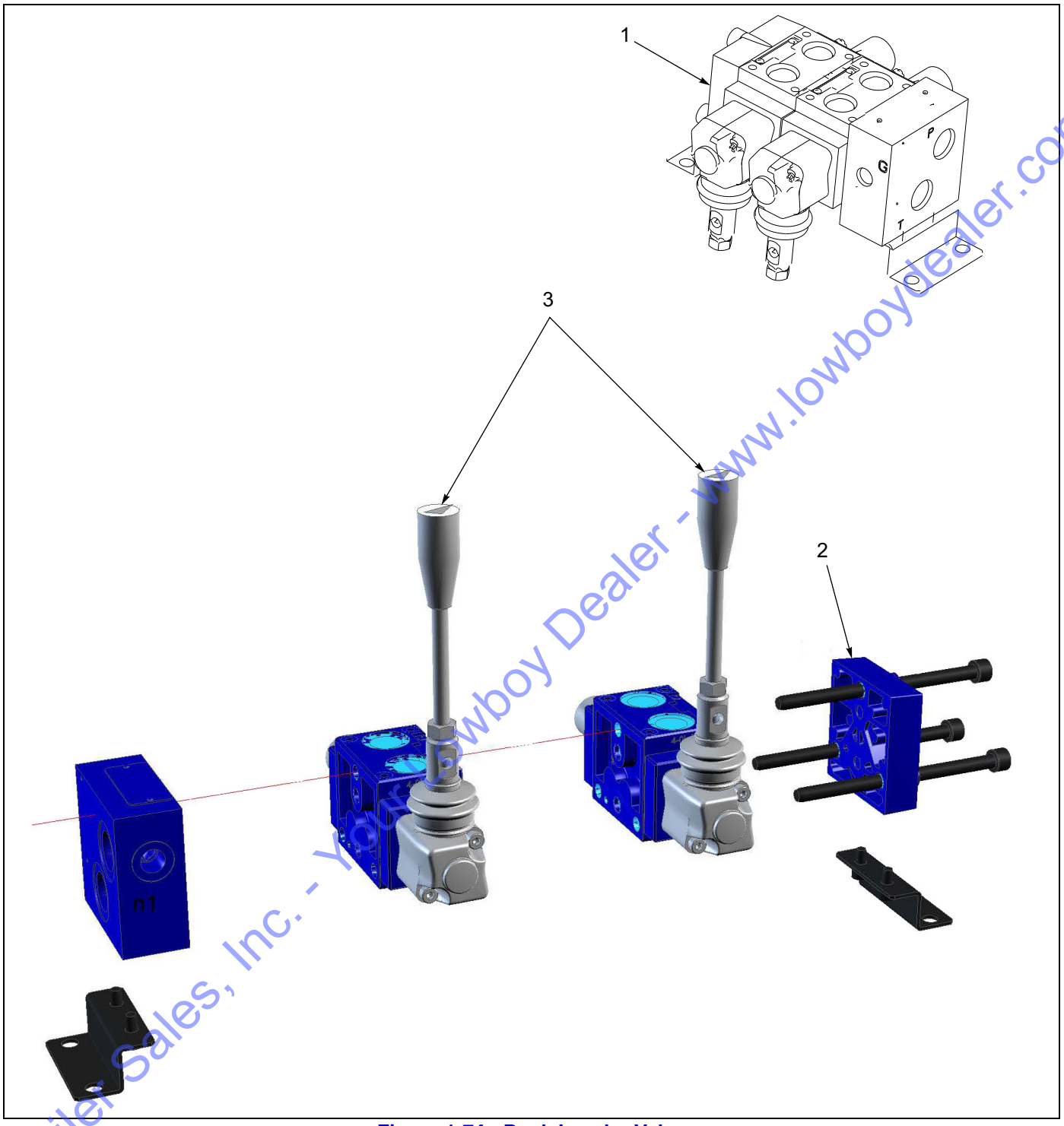


Figure 1-74: Dock Leveler Valve

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

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Air Digital Scales - Options

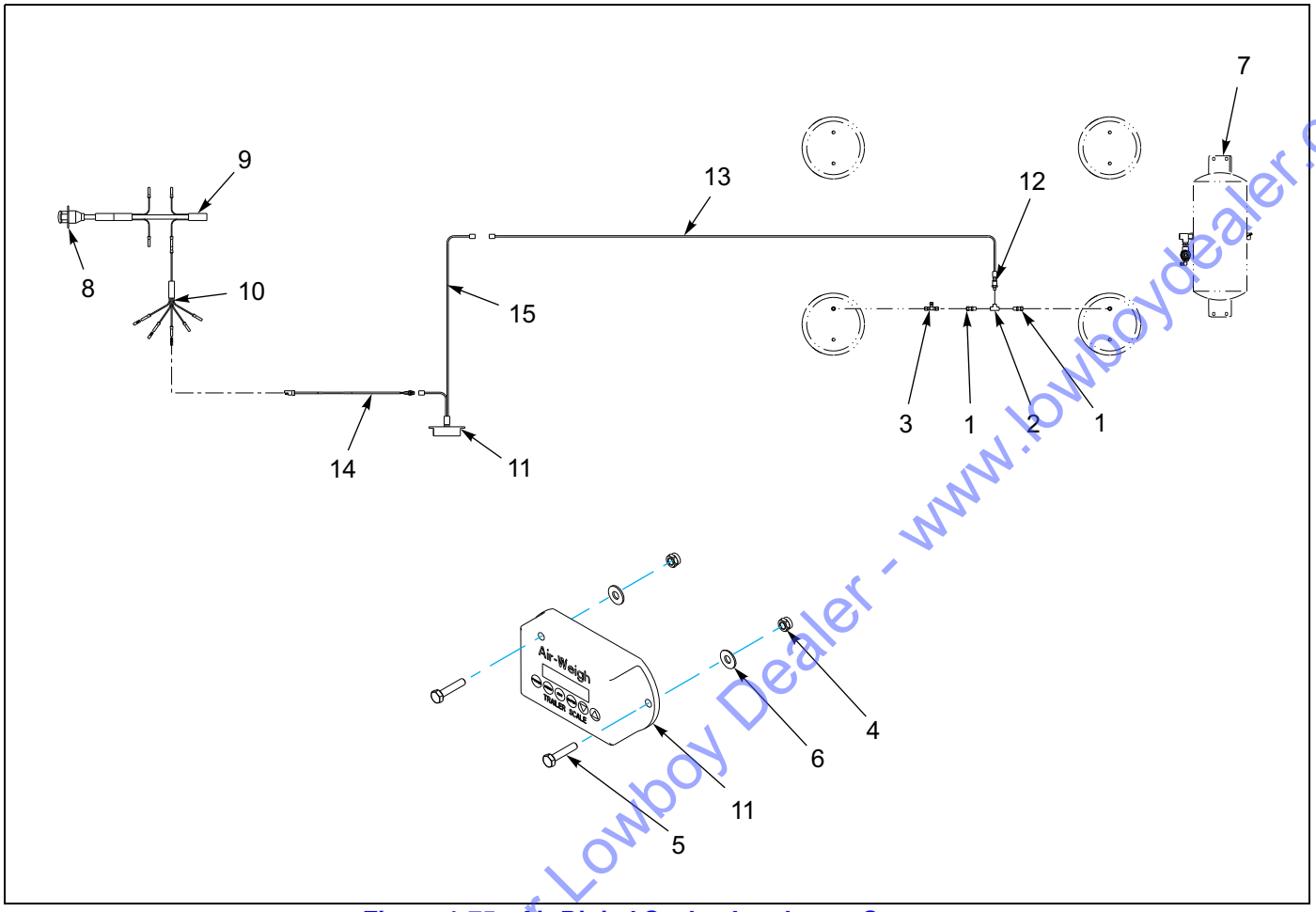


Figure 1-75: Air Digital Scale - Loadmaxx System

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	166001	CABLE, AW5800, 2 PART SENSOR 50'	1
14	166002	CABLE, AW5800 TRAILER POWER BLUNT CUT 15'	1
15	142895	CABLE, AW5800, TRAILER SCALE INTERFACE 2"	1

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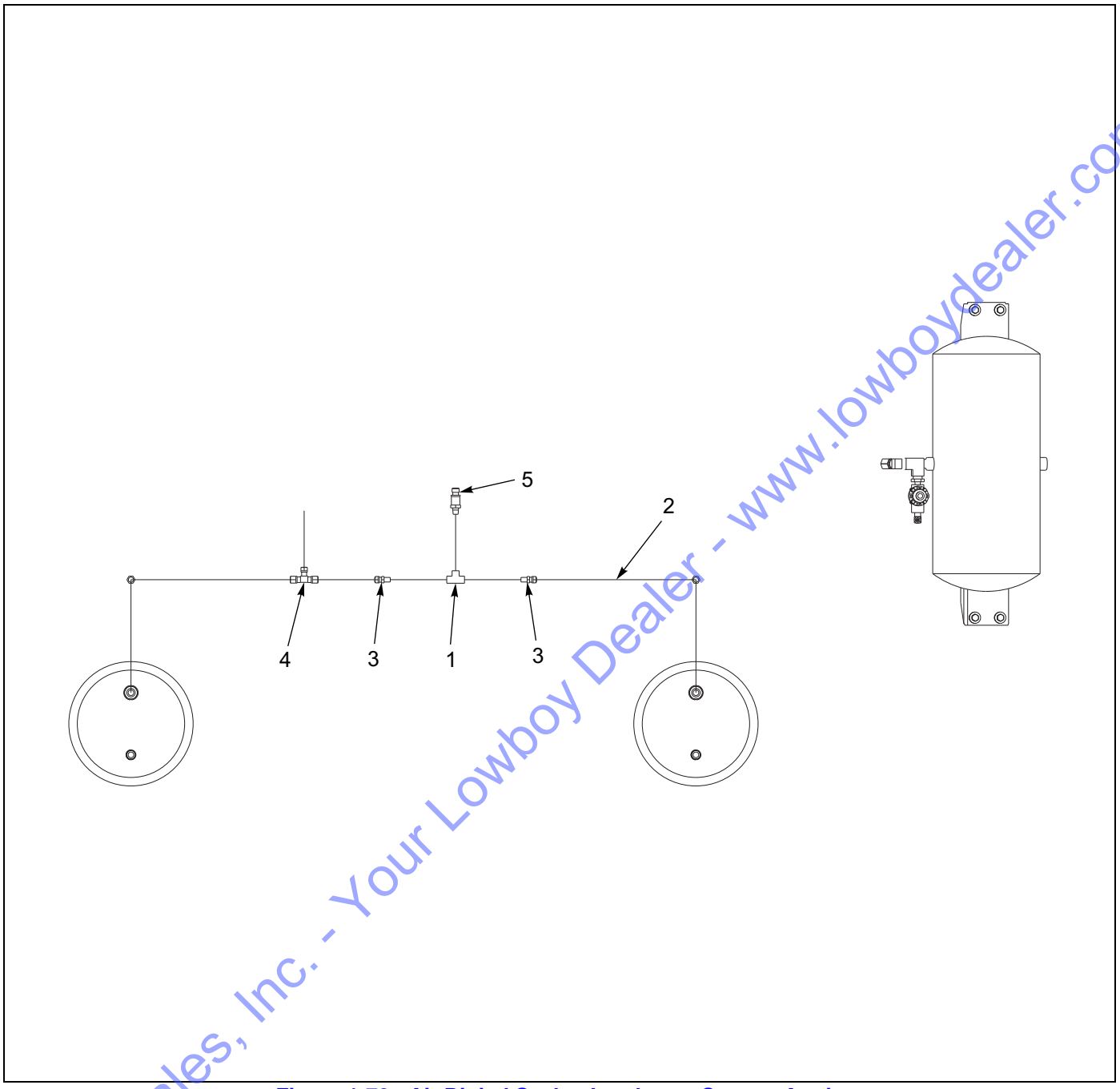


Figure 1-76: Air Digital Scale - Loadmaxx System Arctic

Air Digital Scale - Loadmaxx System Arctic

ITEM	PART NO.	DESCRIPTION	QTY.
	173866	SCALE INSTALLATION, LOADMAXX SYSTEM ARCTIC	
1	1-297-010009-02	FITTING, AIR PIPE TEE	1
2	126630	TUBING, NYLON 3/8	REF
3	126672	FITTING, COMPRESSION	2
4	139930	SUSPENSION, AIR SYS RLU A/R ARCTIC **(NOT SHOWN)** **(SEE PAGE 1-51)**	REF
5	172437	SCALE, AIR DIGITAL MODIFIED **(SEE PAGE 1-128)**	1

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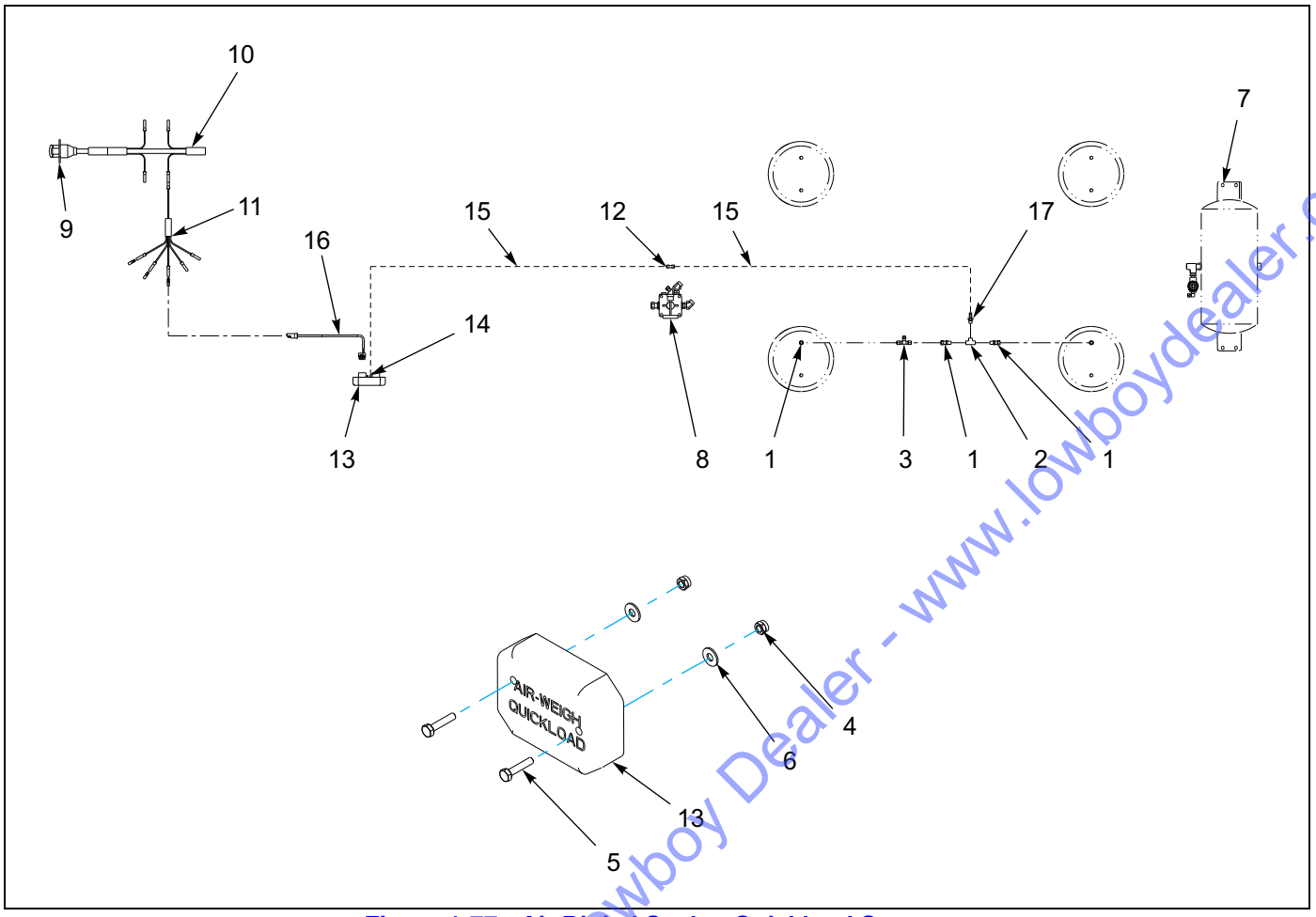


Figure 1-77: Air Digital Scale - Quickload System

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

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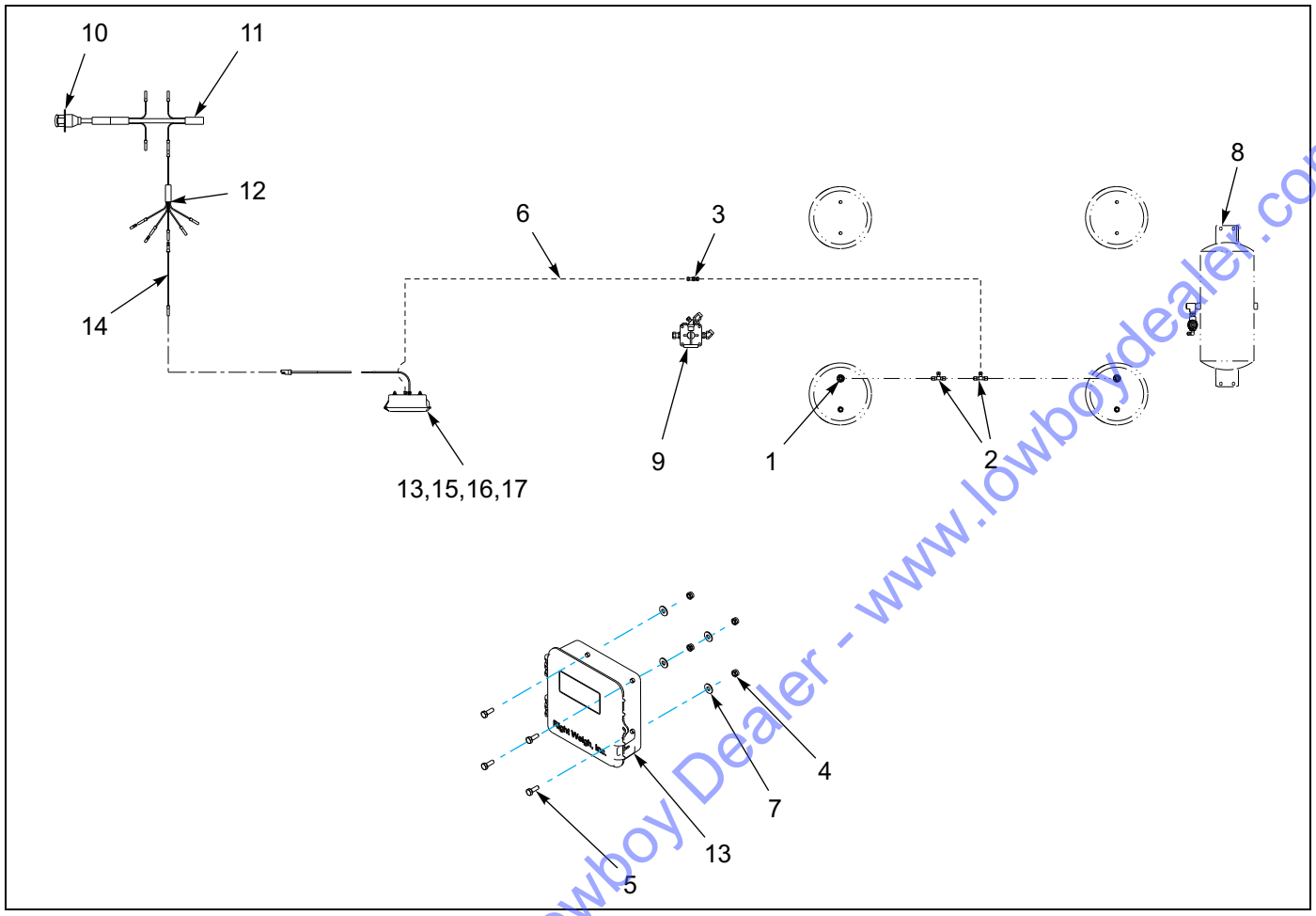


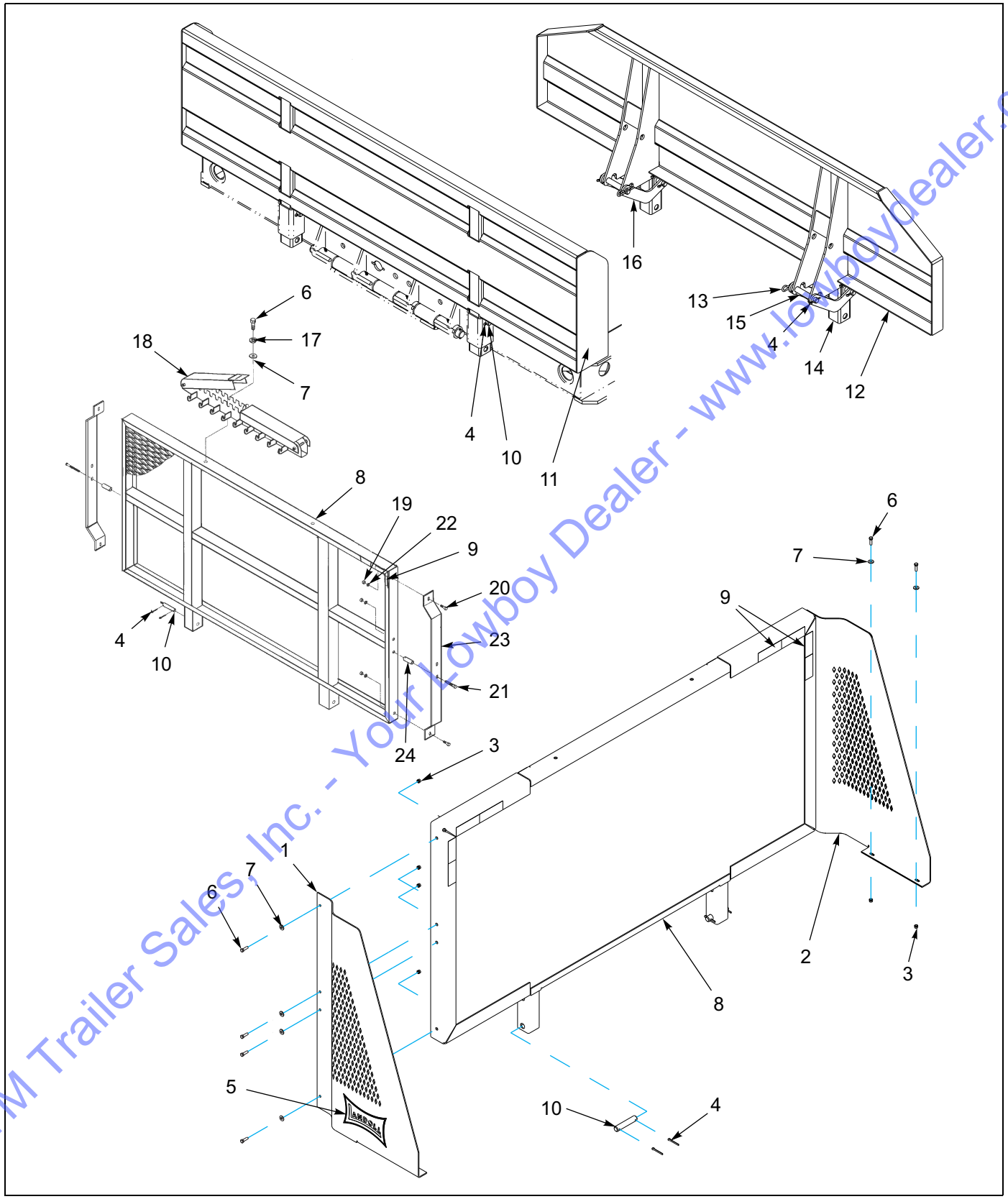
Figure 1-78: Air Digital Scale - Right Weigh System

Air Digital Scale - Right Weigh System

ITEM	PART NO.	DESCRIPTION	QTY.
	175350	SCALE INSTALLATION, RIGHT WEIGH SYSTEM	
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 **(ITEMS 7-15)**	1
14	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
15	171159	DIGITAL SCALE	1
16	171160	DIGITAL INSTALLATION KIT	1
17	171161	MOUNTING BOX, BRACKET, AND HARDWARE	1

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Bulkheads - Options



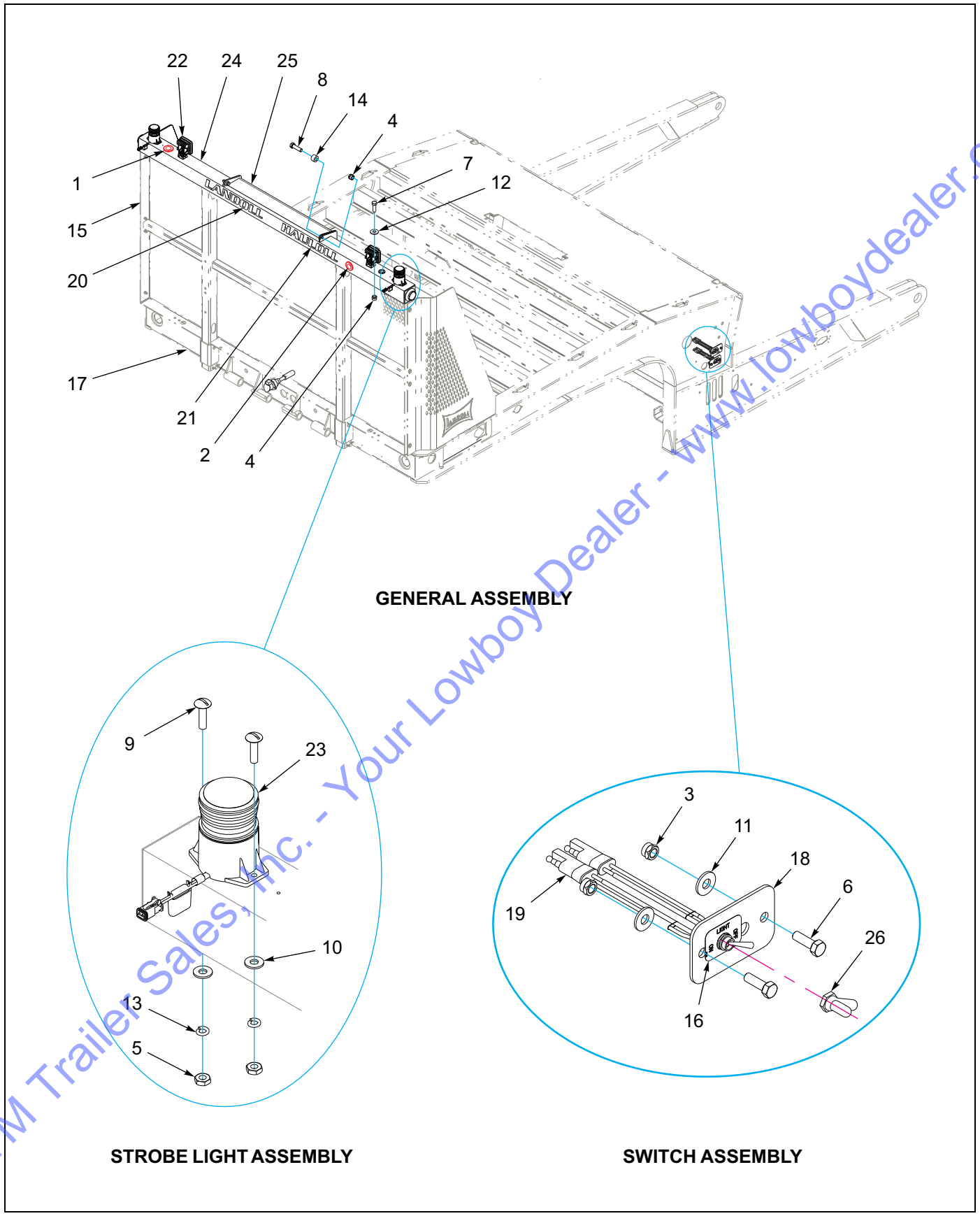
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Figure 1-79: Bulkhead Assembly

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)**	
	3-141-010121-1	BULKHEAD INSTALLATION **(ITEMS 4, 8-10 & 19-24)**	
	130895	BULKHEAD INSTALLATION, SPECIAL **(ITEMS 1-10)**	
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
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
	130896	BULKHEAD WELDMENT, SPECIAL **(USED W/ 130895)**	1
9	3-573-010378	DECAL, 2” REFLEXITE TAPE, WHITE	AR
10	6-557-010163	PIN HITCH LEVEL LINK	2
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
	F-141-010121-2	FIELD INSTALLATION KIT **(ITEMS 4, 8-10 & 19-24)**	

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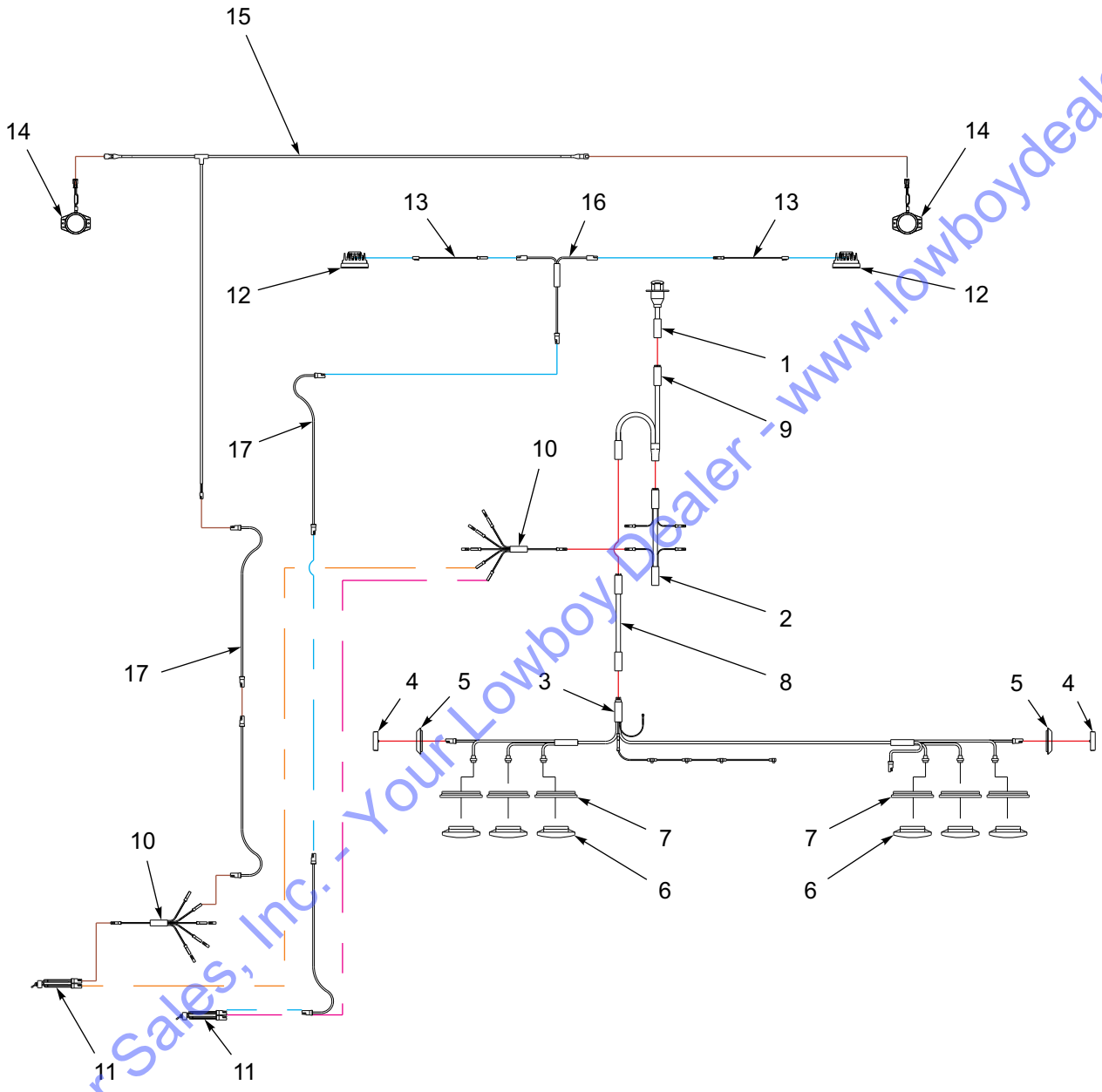
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Figure 1-80: Bulkhead - Chain Rack Lights General Assembly

Bulkhead - Chain Rack Lights General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.	
	167971	BULKHEAD CHAIN RACK S/T/T WL	*	
	176286	BULKHEAD CHAIN RACK S/T/T/W/STR		*
1	1-343-010006	GROMMET, 7/8 ID X 1/4GW X 1-1/4GD	2	2
2	1-343-010007	GROMMET, 11 ID X 1/4GW X 1-3/8GD	1	1
3	1-512-010005-03	NUT HEX SLFLKG, 5/16-18 GRB	2	4
4	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4
5	1-512-010007-03	NUT, HEX 10-24	--	4
6	1-654-010049-05	SCREW, HEX CAP, 5/16-18 UNC X 1 GR5	2	4
7	1-654-010055-03	SCREW, HEX CAP,1/2-13 UNC X 1-1/2	2	2
8	1-654-010055-04	SCREW, HEX CAP,1/2-13 UNC X 1-3/4	2	2
9	1-656-010003051	SCREW, RH HD MACH 10-24 X 3/4	--	4
10	1-861-010032-03	WASHER, FLAT #10 ZP/CD	--	4
11	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	2	4
12	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2	2
13	1-861-010034-07	WASHER, LKG, HLCL SPR, NO 10	--	4
14	125799	SPACER, 10D X 1/2 ID X .632	2	2
15	128414	BULKHEAD INSTALLATION 400 **(SEE PAGE 1-133)**	REF	REF
16	130116	DECAL, ON/OFF LIGHT	1	2
17	130662	GOOSENECK WLDMT, 410-102	REF	REF
18	137987	MOUNT ELECTRIC SWITCH, 410	1	2
19	150117	SWITCH ASSY, LIGHT GROTE	REF	REF
20	155273	DECAL, LANDOLL 2-1/2" BLK RFL	1	1
21	155274	DECAL, HAULOLL 2-1/2" BLK RFL	1	1
22	163996	LIGHT, 12V SQUARE LED FLOOD	REF	REF
23	165788	STOBE BEACON MOD ASSY	--	REF
24	167972	TUBE WLDMT, BHD TOPPER	1	1
25	167975	LID WLDMT, CHAIN BINDER	1	1
26	81264	RUBBER BOOT FOR ELECTRIC SWITCH	1	2

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ELECTRICAL SYSTEM

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Figure 1-81: Bulkhead - Chain Rack Lights Electrical System

Bulkhead - Chain Rack Lights Electrical System

ITEM	PART NO.	DESCRIPTION	QTY.	
	167971	BULKHEAD CHAIN RACK S/T/T WL	*	
	176286	BULKHEAD CHAIN RACK S/T/T/W/STR		*
1	143100	HARNESS 7WAY RECP GROTE	REF	REF
2	143101	HARNESS FRONT MAIN GROTE	REF	REF
3	143104	HARNESS BUMPER GROTE	1	1
4	143109	LIGHT YEL LED 2.5 CL/MK GROTE	2	2
5	143110	GROMMET 2.5 SURFACE MT	2	2
6	143113	LIGHT RED LED OVAL STT GROTE	6	6
7	143114	GROMMET OVAL GROTE	6	6
8	143167	HARNESS EXT 84 IN GROTE	1	1
9	146929	HARNESS Y SPLITTER GROTE	1	1
10	150093	HARNESS 5 AUX BRANCHES GROTE	REF	1
11	150117	SWITCH ASSY LIGHT GROTE	1	2
12	163996	LIGHT,12V SQUARE LED FLOOD	2	2
13	164052	HARNESS,60”BRANCH,WORK LIGHT	2	2
14	165788	STOBE BEACON MOD ASSY	--	2
15	165789	HARNESS STROB BEACON BULKHEAD	--	1
16	169853	HARNESS T PWR BRANCH	1	1
17	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2	4

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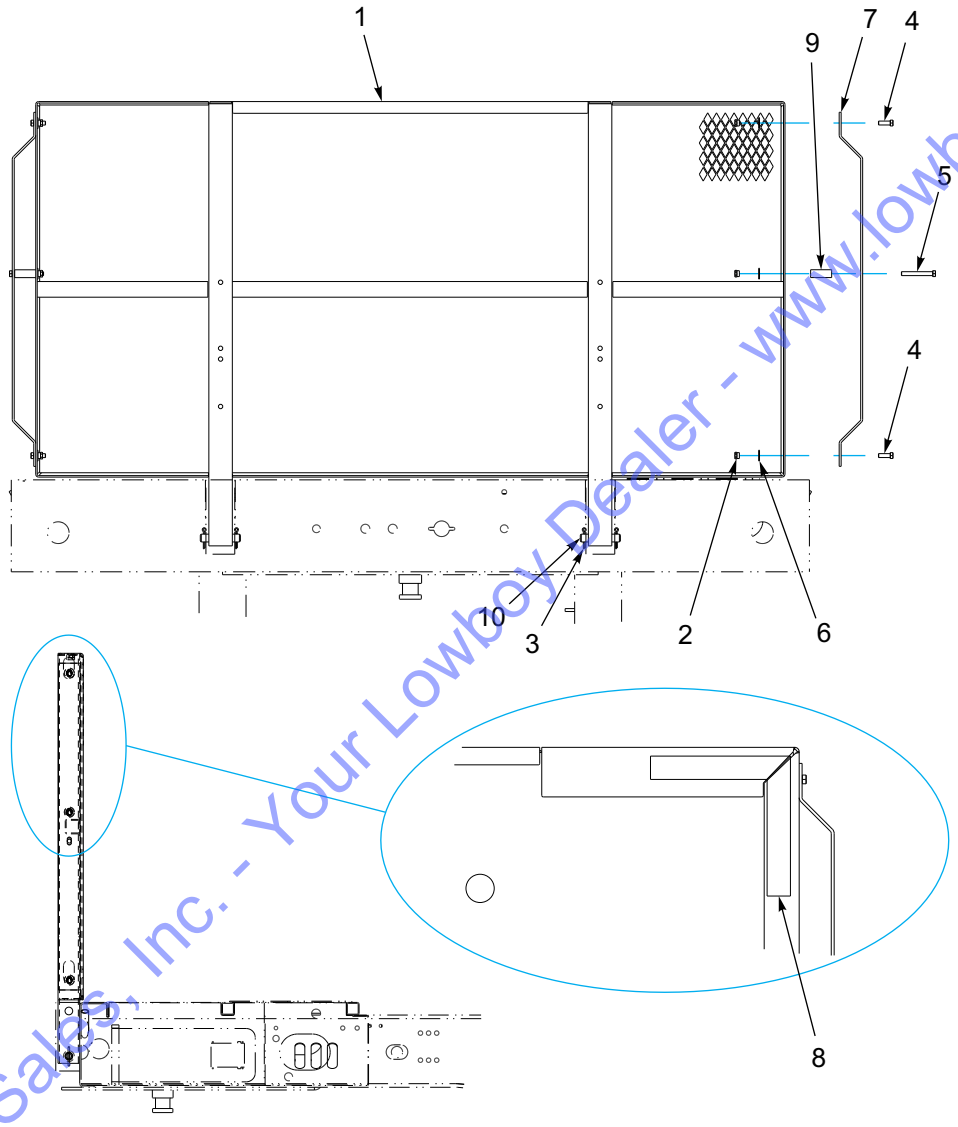


Figure 1-82: Bulkhead Installation - Special

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Bulkhead Installation - Special

ITEM	PART NO.	DESCRIPTION	QTY.	
	183602	BULKHEAD INSTL, 102 W/ PROPANE-C	*	
	190559	BULKHEAD INSTL, OTR PROPANE		*
1	130896	BULKHEAD WLDMT 317 SPECIAL	1	--
	190558	BULKHEAD WLDMT OTR PROPANE	--	1
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	6	6
3	1-557-010362-63	PIN,COTTER 1/4X2 ZP	4	4
4	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX 1-1/2 GR5	4	4
5	1-654-010055-13	SCREW,HEX CAP,1/2-13UNCX4 GR5	2	2
6	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	6	6
7	3-054-010101	BAR,SIDE,48",BULKHEAD,102"EXT	2	2
8	3-573-010378	DECAL,2"REFLEXITE TAPE,WHITE	49	49
9	3-711-010025	SPACER, 48" BULKHEAD, 1 DIA	2	2
10	6-557-010163	BULKHEAD WLDMT 317 SPECIAL	2	2

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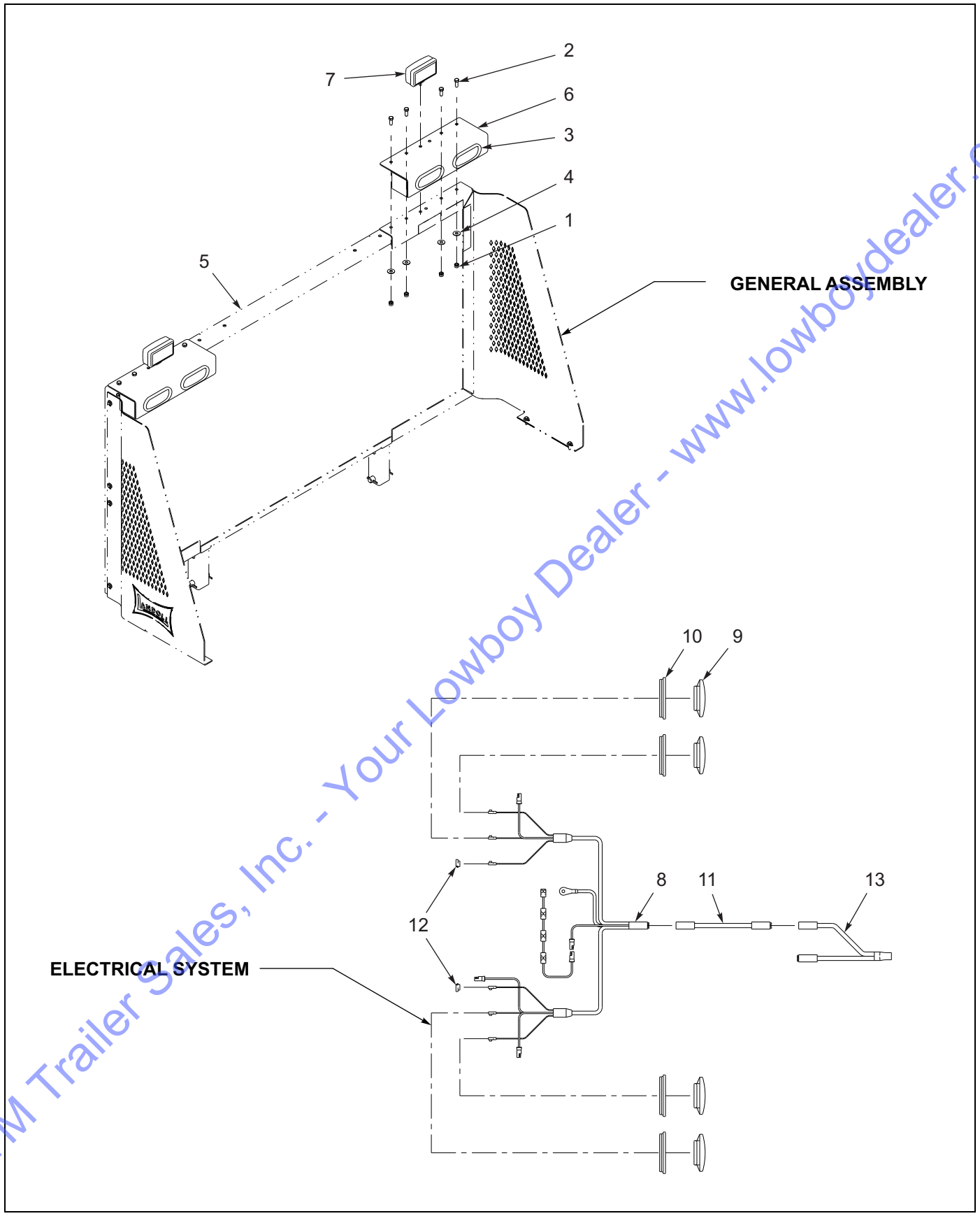


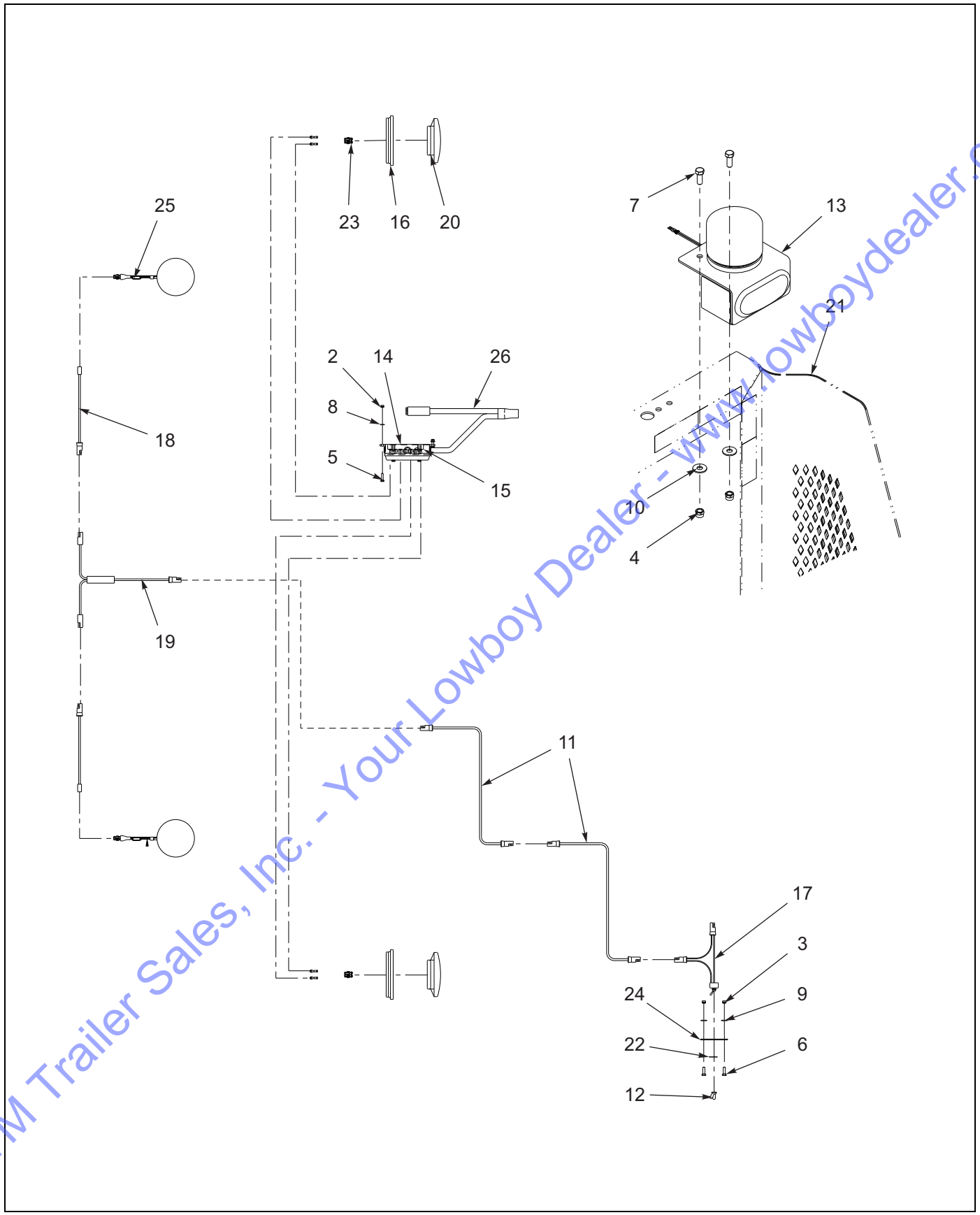
Figure 1-83: Bulkhead - Stop, Tail, & Turn

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Bulkhead - Stop, Tail & Turn

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

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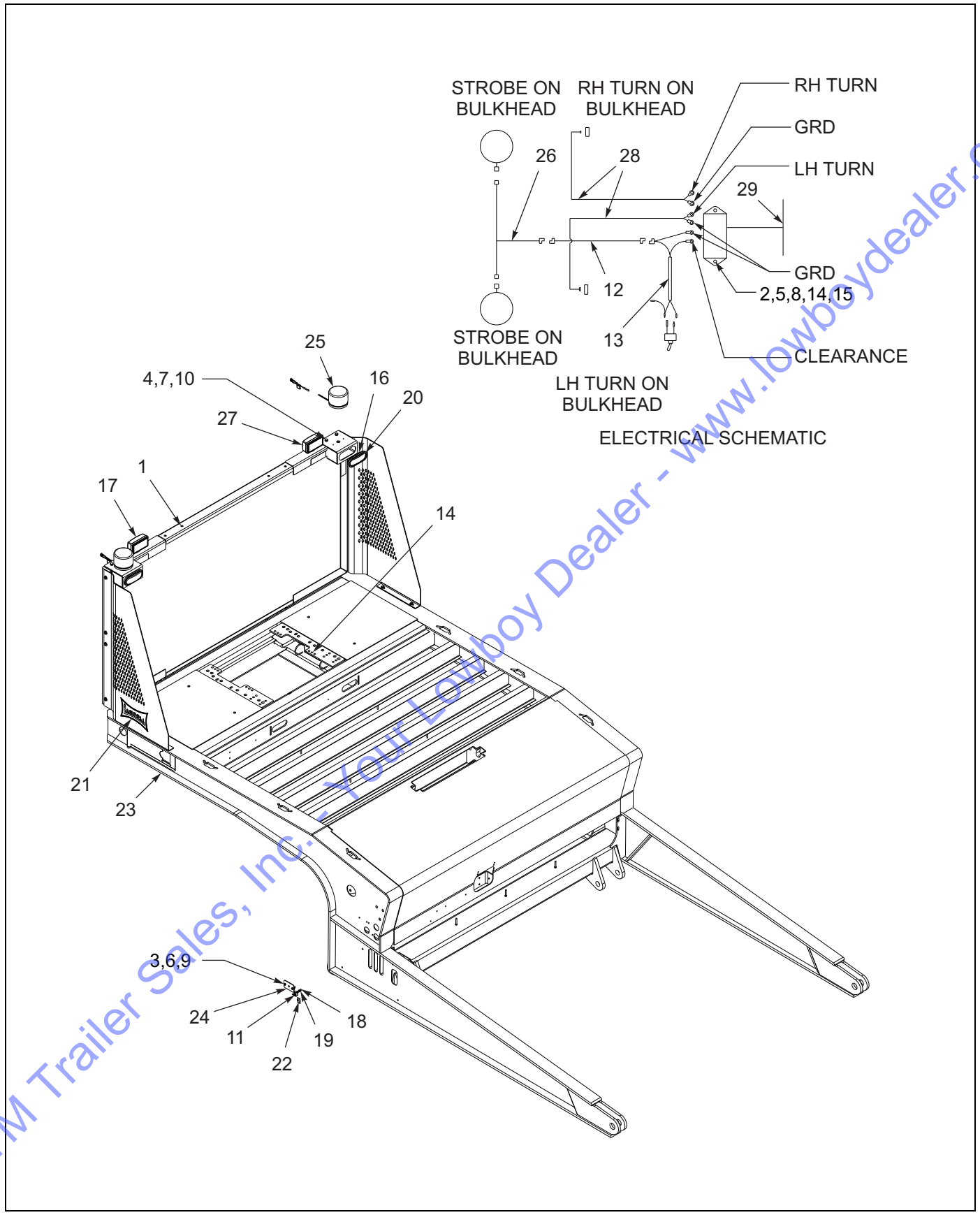
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Figure 1-84: Bulkhead - Strobe & Turn Installation

Bulkhead - Strobe & Turn Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	156511	STROBE AND TURN BULKHEAD INSTALLATION	
1	1-822-010002	TRIM-LOCK 3/16 **(NOT SHOWN)**	AR
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
5	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
6	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	4
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
8	1-861-010032-06	WASHER, FLAT 1/4N	2
9	1-861-010032-09	WASHER, FLAT 5/16W	2
10	1-861-010032-15	WASHER, FLAT 1/2W	4
11	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
12	81264	RUBBER BOOT FOR ELECT SWITCH	1
13	142529	MOUNT WELDMENT, STROBE AND TURN	2
14	750-029	JUNCTION BOX 7 STUD	1
15	32002	TERMINAL	4
16	60700	GROMMET, TRUCK LITE LIGHT	2
17	164052	HARNESS, 60” BRANCH WORK LIGHT	2
18	150117	TOGGLE SWITCH SEALED SPST	1
19	169853	HARNESS, T POWER BRANCH	1
20	121377	LIGHT YELLOW LED S/T/T	2
21	128414	BULKHEAD INSTALLATION **(SEE PAGE 1-133)**	REF
22	130116	DECAL, ON/OFF LIGHT	1
23	142530	HARNESS, TURN BULKHEAD MOUNT	2
24	137987	MOUNT, ELECT SWITCH	1
25	140328	STROBE LIGHT MOD ASSY	2
26	146929	HARNESS Y SPLITTER GROTE	1

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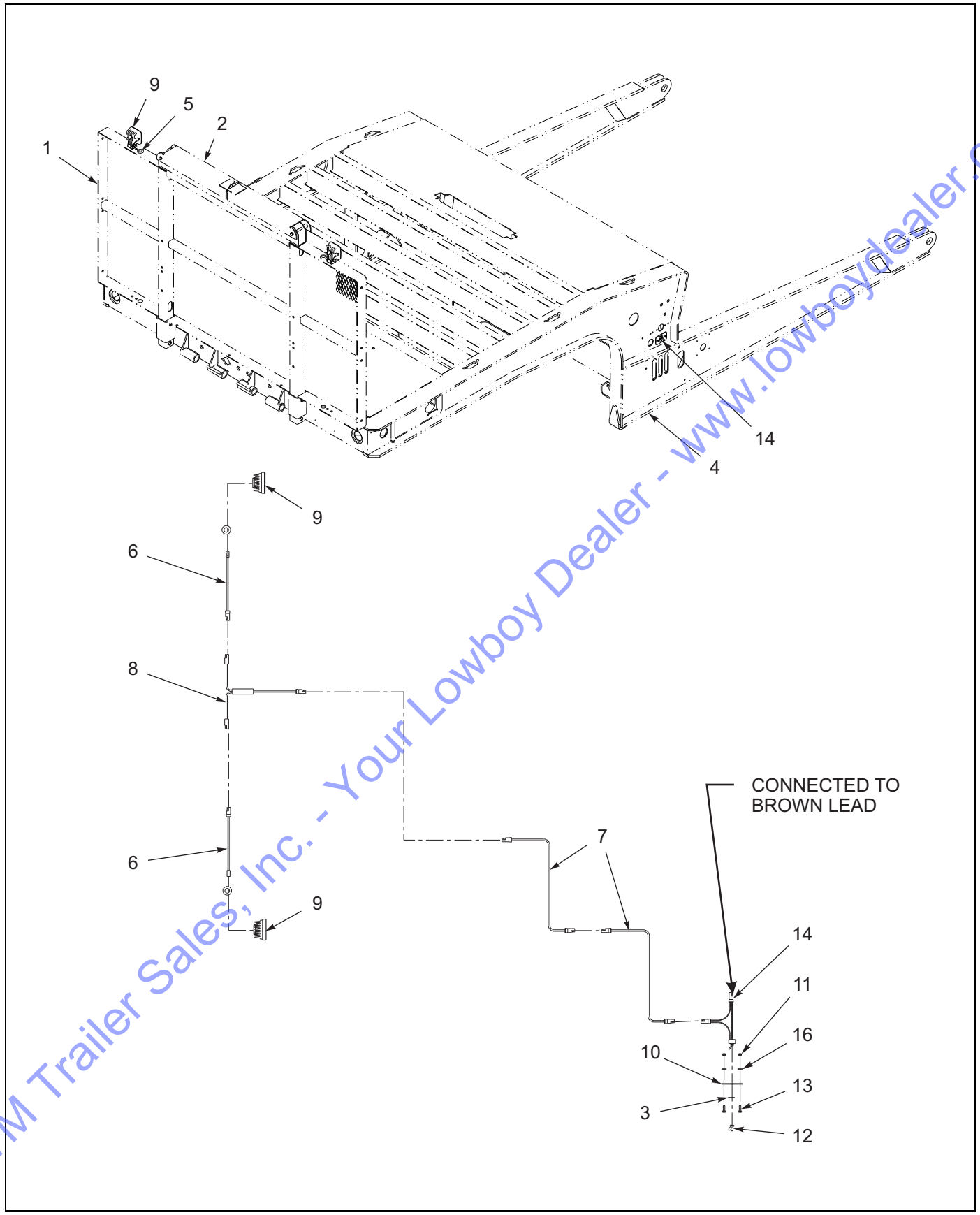
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Figure 1-85: Bulkhead - Strobe & Turn Light Installation

Bulkhead - Strobe & Turn Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	142526	STROBE AND TURN LIGHT INST FOR BULKHEAD	
1	1-343-010007	GROMMET	4
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
5	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
6	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
8	1-861-010032-06	WASHER, FLAT 1/4N	2
9	1-861-010032-09	WASHER, FLAT 5/16W	2
10	1-861-010032-15	WASHER, FLAT 1/2W	4
11	3-272-010017	TOGGLE SWITCH SEALED SPST	1
12	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT	1
13	3-368-010253	HARNESS ASSEMBLY, CONTROL PANEL	1
14	750-029	JUNCTION BOX, 7 STUD	1
15	32002	TERMINAL, 12-10 W/ #10 RING WAY	4
16	60700	GROMMET, TRUCK LITE LIGHT	2
17	64181	RECT QUARTZ HALOGEN LAMP	REF
18	104043	CONNECTOR, MALE	1
19	104044	CONNECTOR, FEMALE	1
20	121377	LIGHT, YELLOW LED S/T/T	2
21	128414	BULKHEAD INSTALLATION **(SEE PAGE 1-133)**	REF
22	130116	DECAL, ON/OFF LIGHT	1
23	130662	GOOSENECK WELDMENT	REF
24	137987	MOUNT, ELECTRIC SWITCH	1
25	140328	STROBE LIGHT MOD ASSEMBLY	2
26	140330	HARNESS, STROBE BEACON BULKHEAD	1
27	142529	MOUNT WELDMENT, STROBE AND TURN	2
28	142530	HARNESS, TURN BULKHEAD MOUNT	2
29	146929	HARNESS, Y SPLITTER GROTE	1

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Figure 1-86: Bulkhead - Work Light Instillation

Bulkhead - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	156510	WORK LIGHT ASSEMBLY, BULKHEAD	
	169927	WORK LIGHT ASSEMBLY, BULKHEAD	
1	3-141-010155	BULKHEAD WELDMENT	REF
2	B7-141-003	CHAIN RACK INSTALLATION	REF
3	130116	DECAL, ON/OFF LIGHT	1
4	130662	GOOSENECK WELDMENT	REF
5	1-343-010006	GROMMET	2
6	164052	HARNESS, 60” BRANCH WORK LIGHT	2
7	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	**3,3
8	169853	HARNESS, JUMPER T-POWER	1
9	163996	LIGHT LED WHITE FLOOD LAMP	2
10	137987	MOUNT, ELECTRICAL SWITCH	1
11	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
12	81264	RUBBER BOOT FOR ELECT SWITCH	1
13	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
14	150117	TOGGLE SWITCH SEALED SPST	1
15	1-822-010002	TRIM LOCK 3/16 **(NOT SHOWN)**	4
16	1-861-010032-09	WASHER, FLAT 5/16W	2

** 1ST QUANTITY IS USED WITH P/N - 169927
2ND QUANTITY IS USED WITH P/N - 156510

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Bumpers - Options

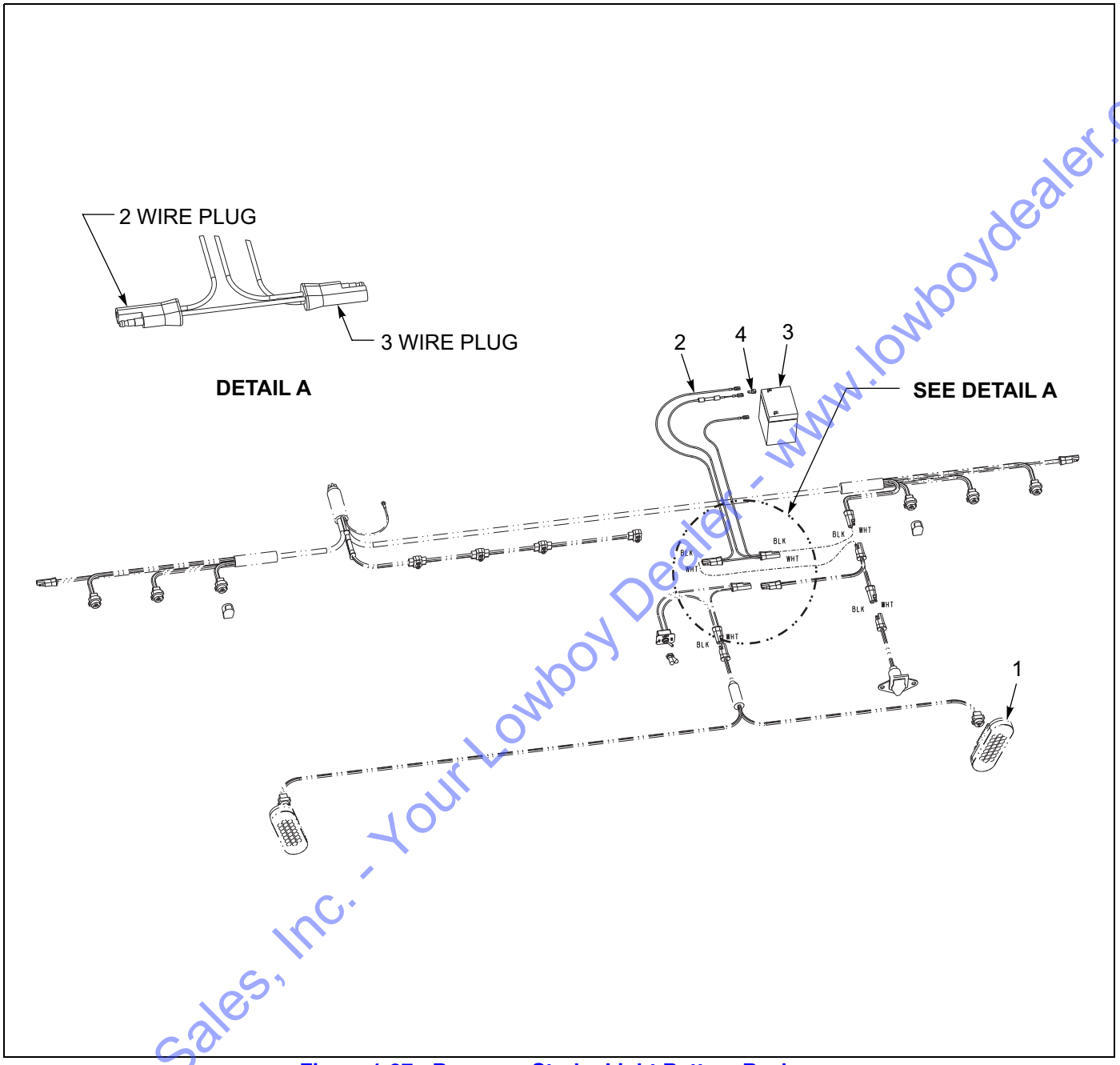


Figure 1-87: Bumper - Strobe Light Battery Backup

Bumper - Strobe Light Battery Backup

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

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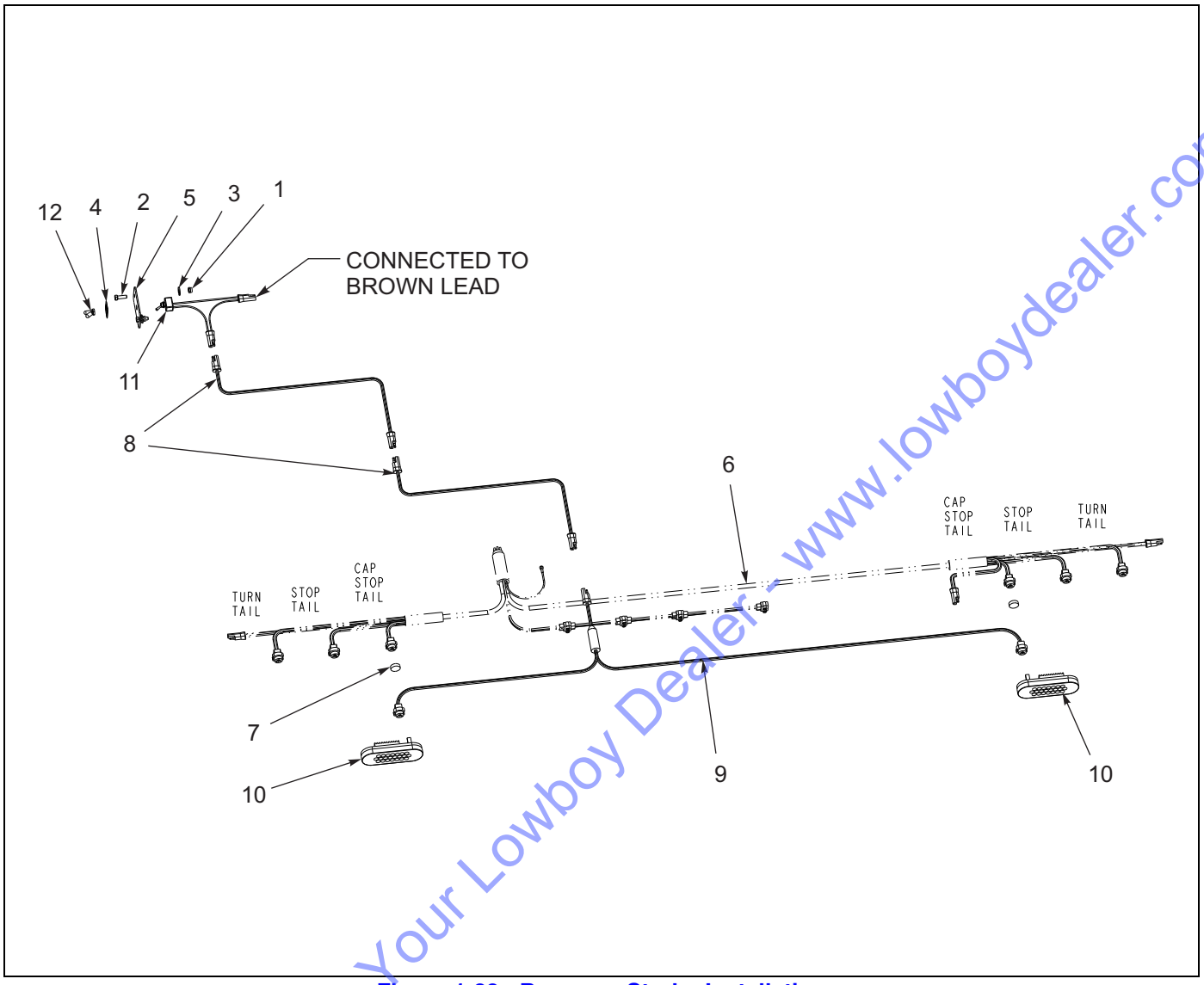


Figure 1-88: Bumper - Strobe Installation

Bumper - Strobe Installation

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

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Electrical Installations - Options

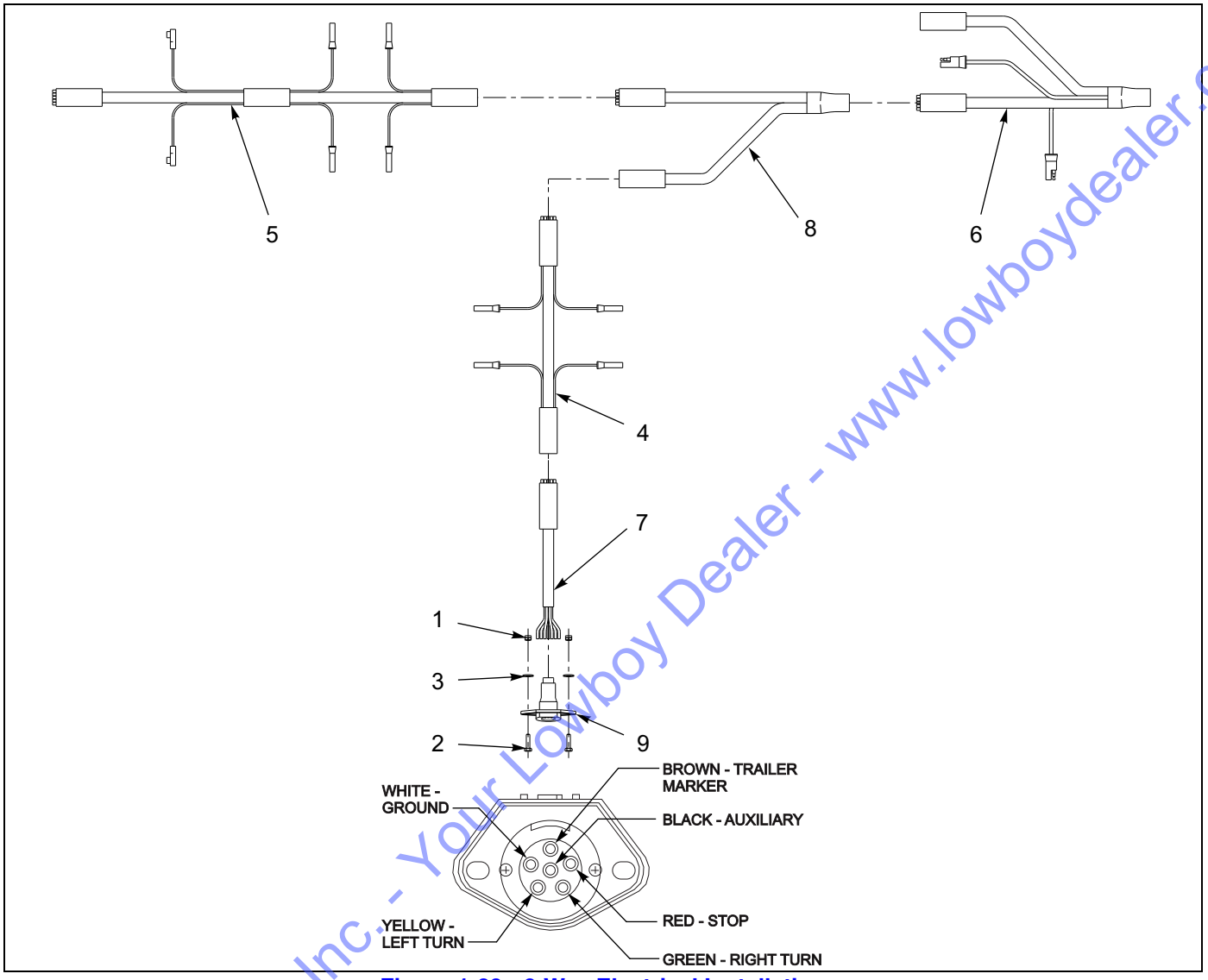


Figure 1-89: 6-Way Electrical Installation

6-Way Electrical Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	164588	6-WAY ELECTRICAL INSTALLATION	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143101	HARNESS, FRONT MAIN	1
5	143102	HARNESS, BED MAIN	REF
6	143103	HARNESS, E-CHAIN	REF
7	143166	HARNESS, EXT 48”	1
8	146929	HARNESS, Y SPLITTER	1
9	3-203-010025	CONNECTOR, ELECTRICAL 6-WAY	1

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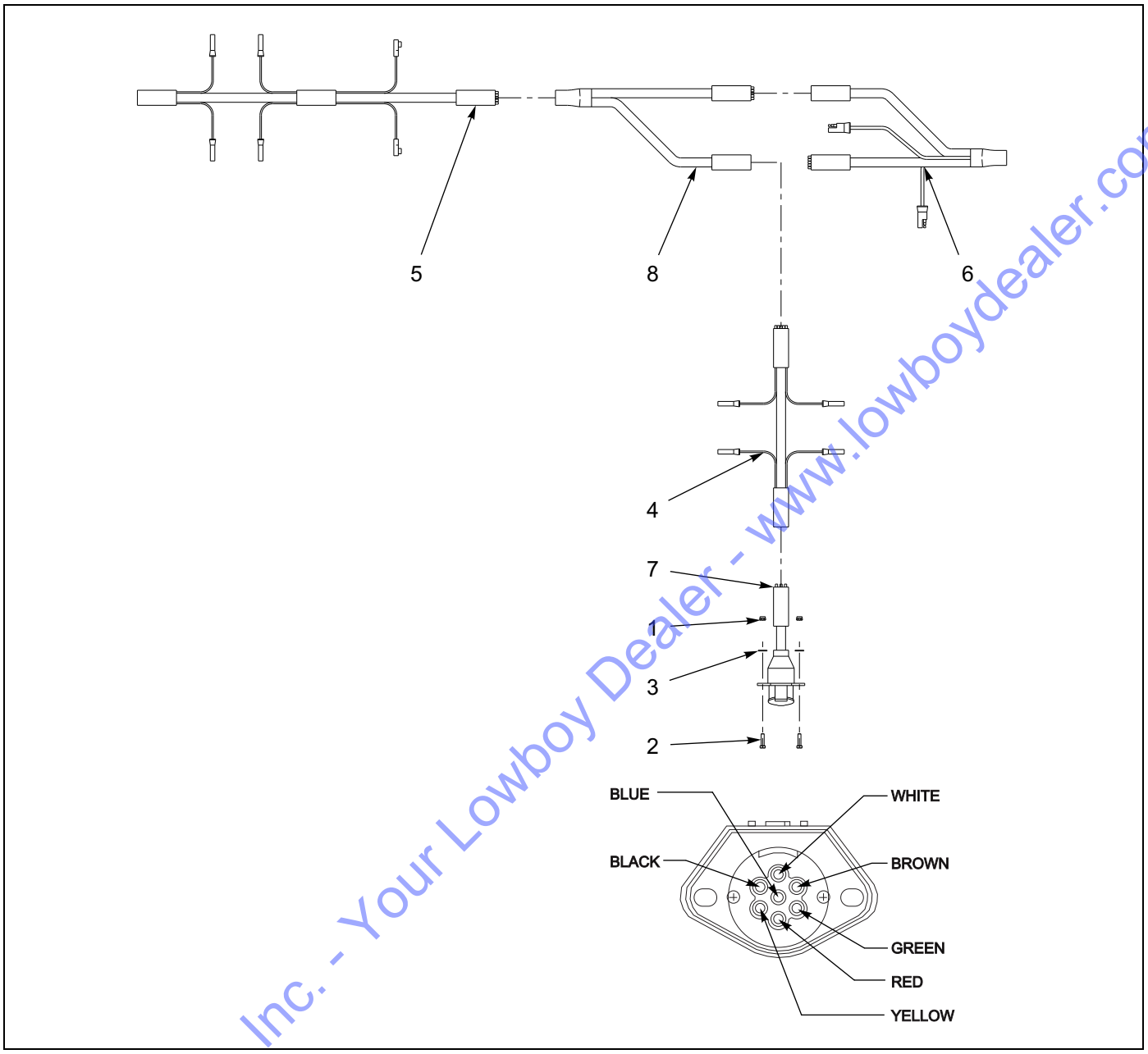


Figure 1-90: 7-Way Electrical Installation

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

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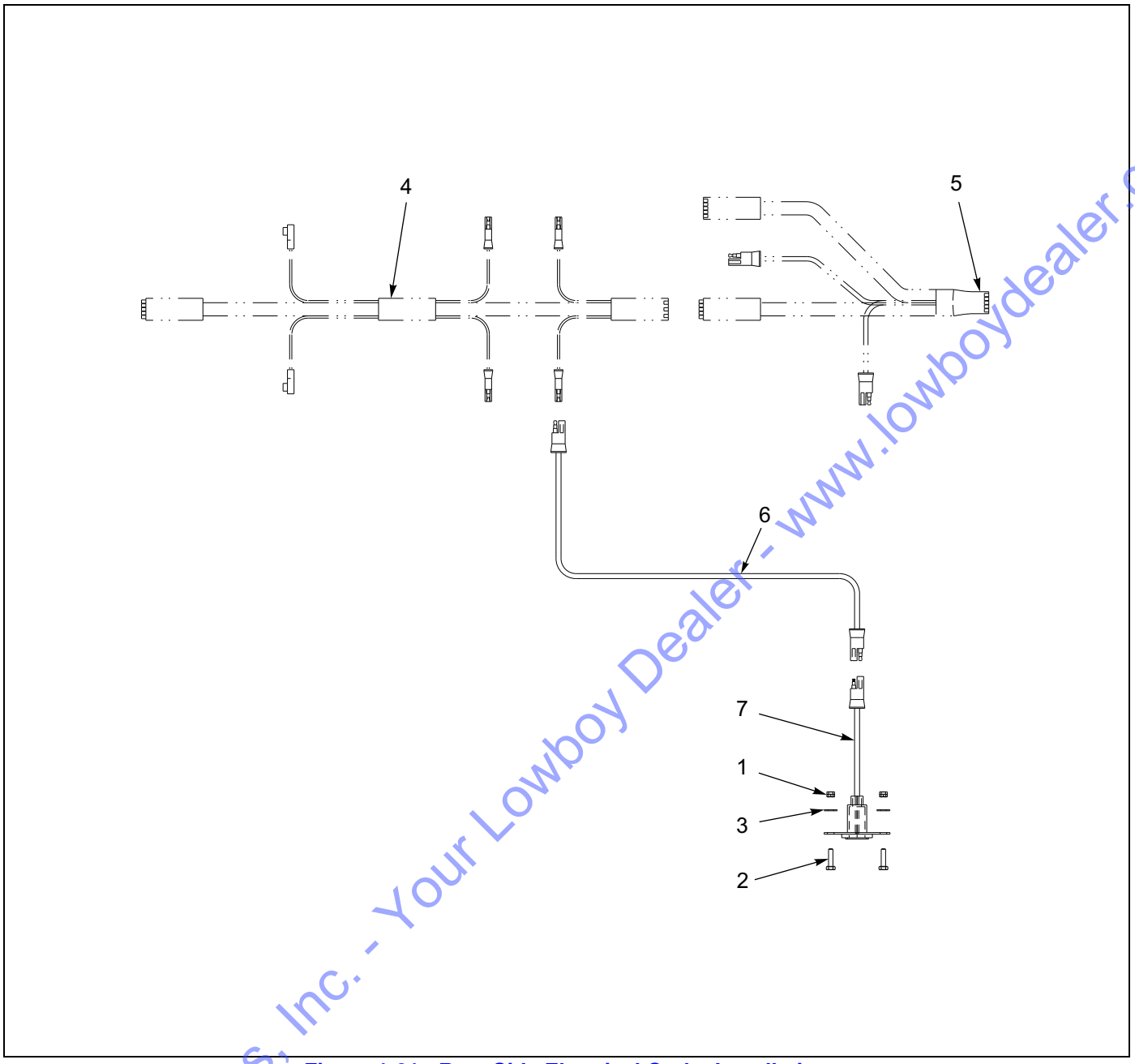


Figure 1-91: Rear Side Electrical Outlet Installation

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

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Engines - Options

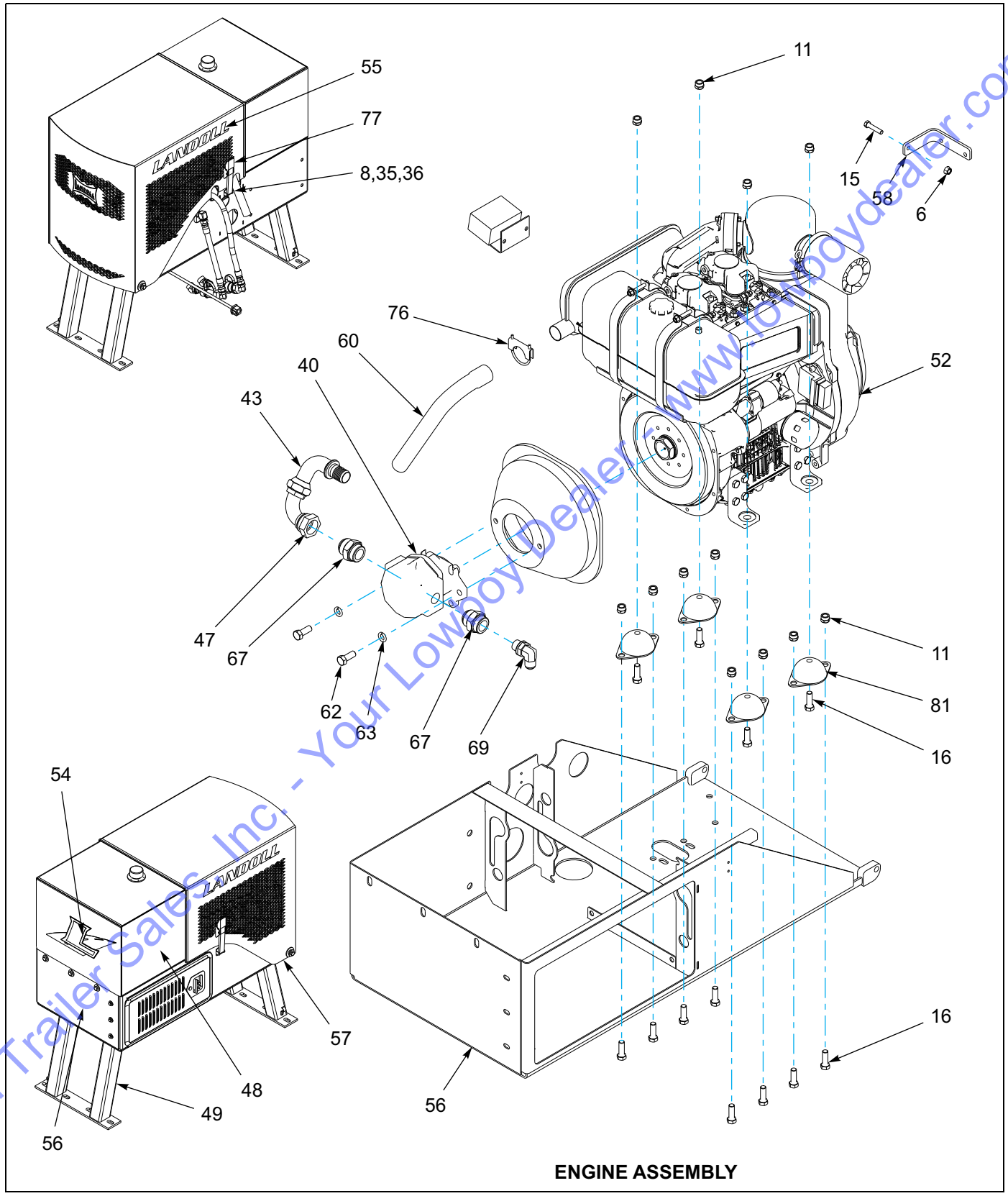
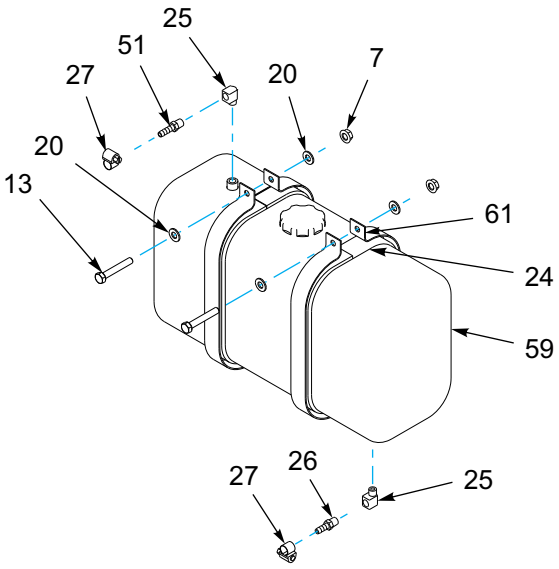
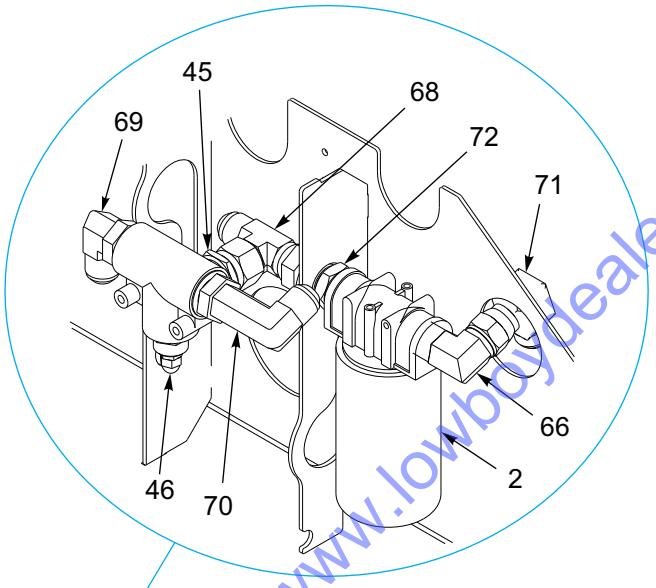


Figure 1-92: Engine - 25 HP Diesel Package (1 of 4)

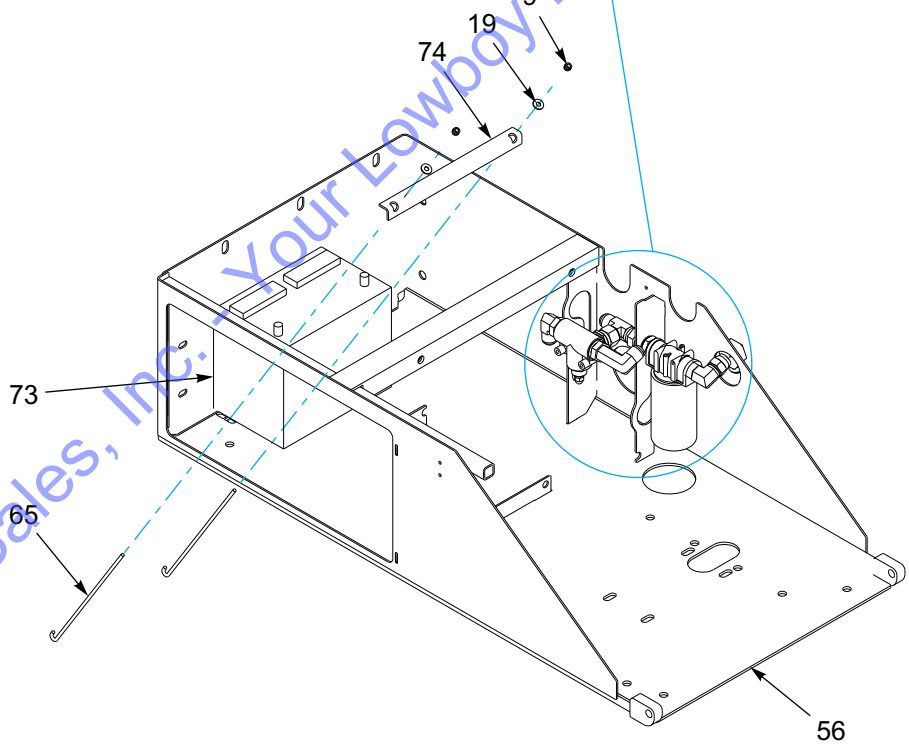
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FUEL TANK



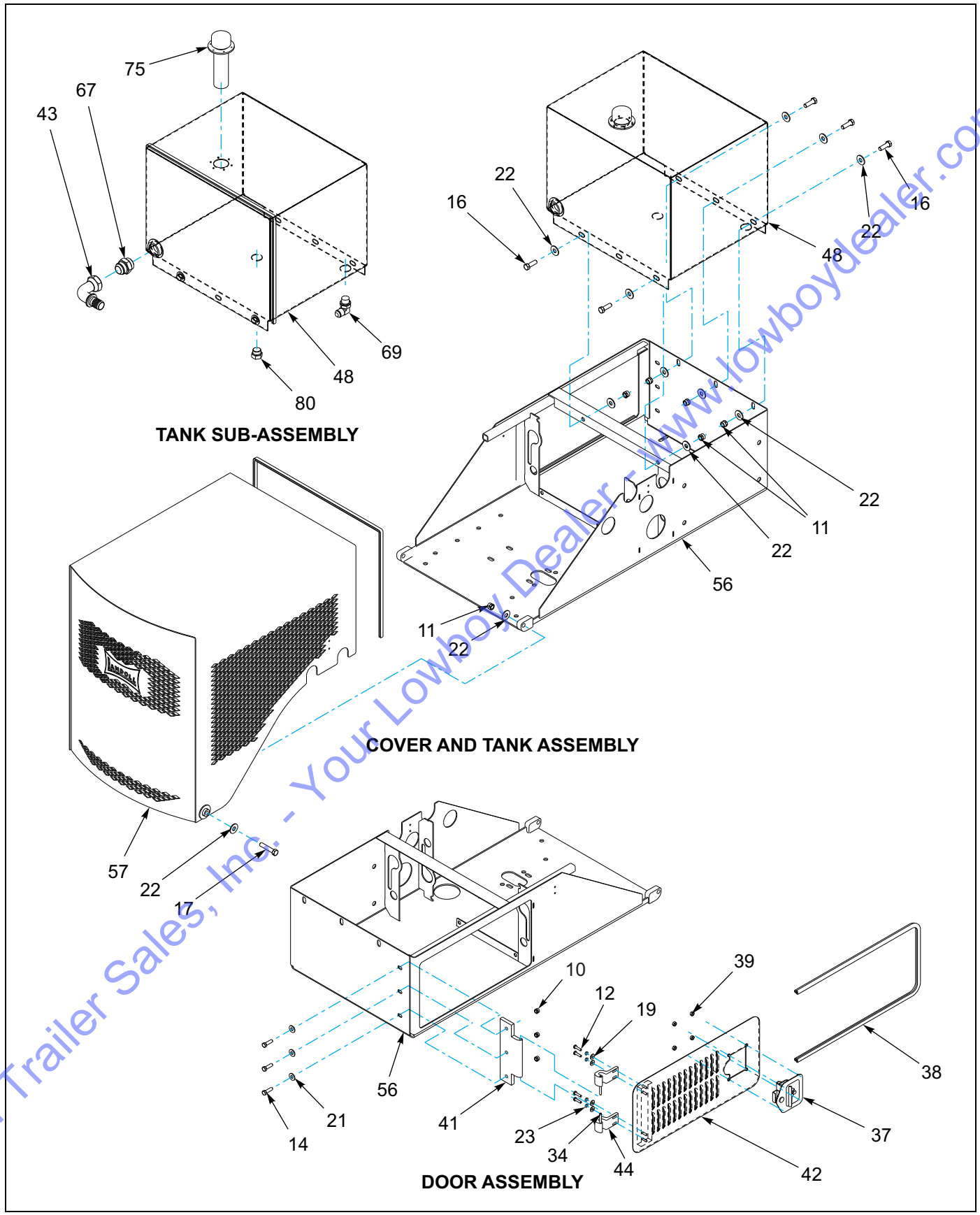
FILTER ASSEMBLY



BATTERY ASSEMBLY

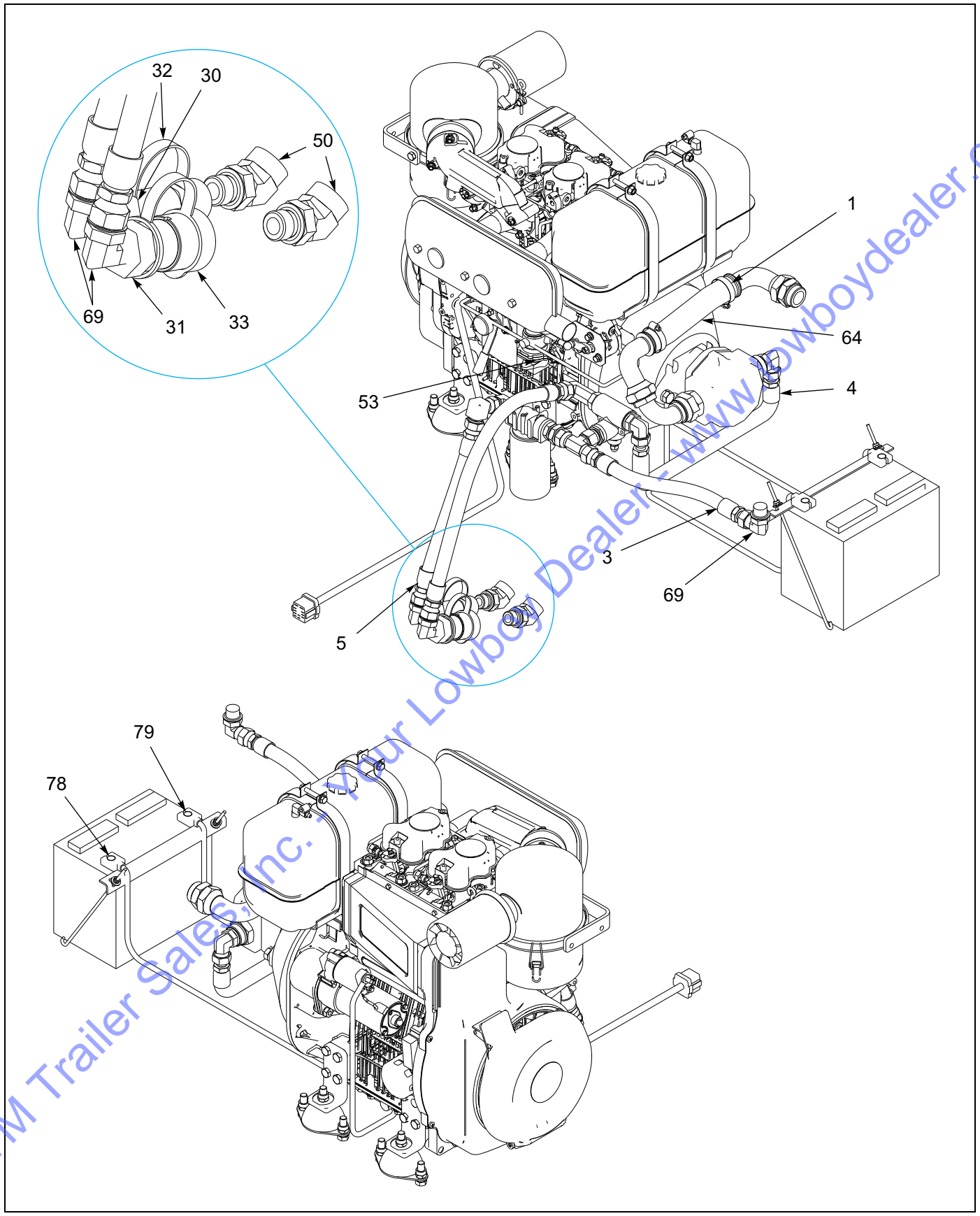
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Figure 1-93: Engine - 25 HP Diesel Package (2 of 4)



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Figure 1-94: Engine - 25 HP Diesel Package (3 of 4)



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Figure 1-95: Engine - 25 HP Diesel Package (4 of 4)

Engine - 25 HP Diesel Package

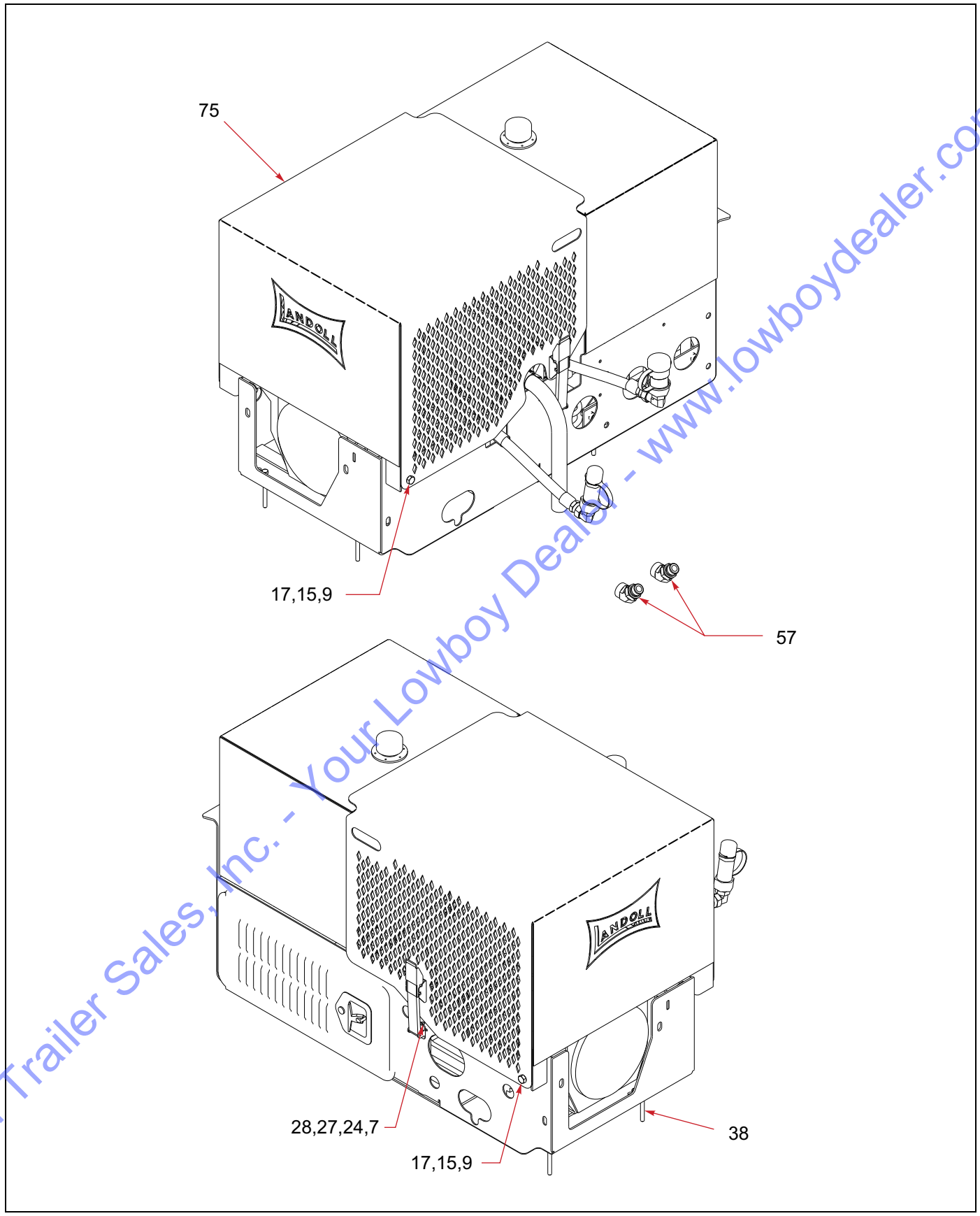
ITEM	PART NO.	DESCRIPTION	QTY.
	157256	25HP DIESEL ENGINE PACKAGE	
1	1-181-010046-7	CLAMP, HOSE	2
2	1-295-010001	RETURN LINE FILTER	1
3	1-295-010002	FILTER ELEMENT	1
	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
4	1-397-010304025	HOSE ASSEMBLY 3/4 X 25	1
5	1-397-010304060	HOSE ASSEMBLY 3/4 X 60	2
6	1-510-010001	NUT, FLANGE HEAD SERRATED 3/8-16	1
7	1-510-010004-03	NUT, FLANGE HEAD SPIRALOCK 5/16-18	2
8	1-512-010004-03	NUT, HEX LOCK 10-24 GRA	8
9	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
10	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	13
11	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
12	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	6
13	1-654-010049-09	SCREW, HEX HEAD CAP 5/16-18 X 2 GR5	2
14	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
15	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	6
16	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	17
17	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	2
18	1-822-010002	TRIM-LOK 3/16 **(NOT SHOWN)**	6
19	1-861-010032-07	WASHER, FLAT 1/4W	6
20	1-861-010032-08	WASHER, FLAT 5/16N	4
21	1-861-010032-11	WASHER, FLAT 3/8W	3
22	1-861-010032-15	WASHER, FLAT 1/2W	14
23	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
24	10030	SEAL, BAR STOCK NEOPRENE SPONGE	AR
25	101528	ELBOW, BRASS PIPE STREET	2
26	102-0511	HOSE BARB	1
27	105-0105	CLAMP, HOSE	2
30	105479	COUPLER FLAT FACE MALE NOSE	1
31	105480	COUPLER, FLAT FACE FEMALE BODY	1
32	105481	COUPLER, DUST CAP MALE	1
33	105482	COUPLER, DUST FEMALE	1
34	108601	PIN, DOOR HINGE	2
35	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
36	110-0253	WASHER, FLAT 3/16	8
37	114814	LATCH, FOLDING T LOCKABLE	1
38	114815	SEAL, SPONGE RUBBER TRIM	5
39	115877	NUT, HEAVY HEX 1/4-20 GR5	4
40	186811	PUMP, HYDRAULIC, 0.88 CID GEAR	1
41	116326	HINGE, BASE MOUNT	11
42	116328	MOUNT, DOOR WELDMENT	1
43	116330	FITTING, 90	1
44	119206	HINGE, DOOR	2
45	120660	ADAPTER	1
46	120661	VALVE, HYDR PRESSURE RELIEF	1
47	12412300-08	ADAPTER	1
48	129264	HYDRAULIC TANK WELDMENT	1

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Engine - 25 HP Diesel Package

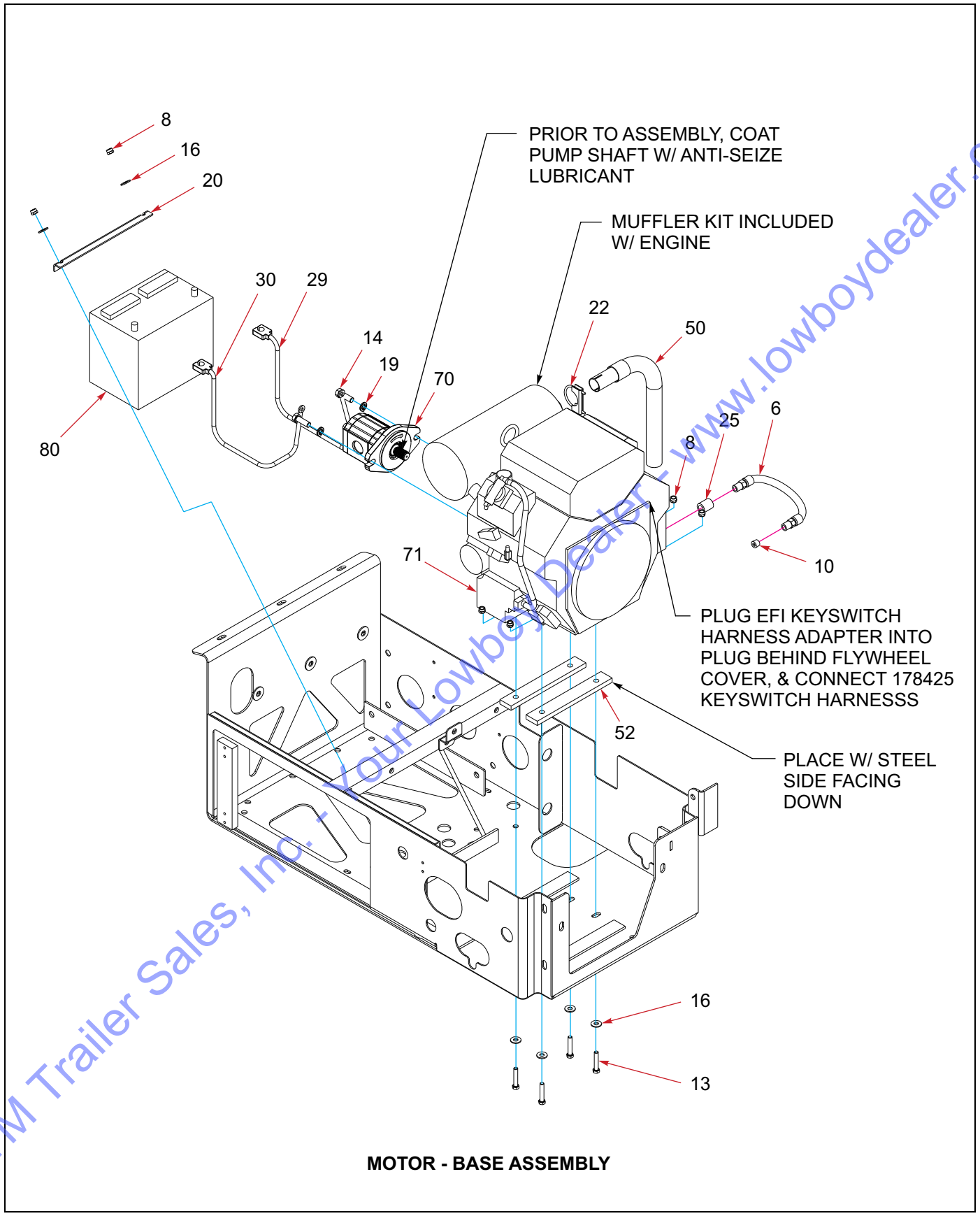
ITEM	PART NO.	DESCRIPTION	QTY.
49	134857	MOUNT WELDMENT, ENG PACKAGE	REF
50	138209	ADAPTER, HYDRAULIC 45	2
51	144736	HOSE BARB	1
52	148267	ENGINE, KOHLER 25HP DIESEL	1
	3-765-010050	KOHLER IGNITION SWITCH	1
	169216	FILTER, FUEL KOHLER DIESEL	1
53	148268	THROTTLE KIT, KOHLER DIESEL	1
54	153751	DECAL, HWY L 7” REFL	1
55	153795	DECAL, LANDOLL 2-1/2” REFL	2
56	157257	MOUNT WELDMENT, DIESEL ENG PACKAGE	1
57	157263	HOOD WELDMENT, ENG DRIVE UPPER DECK	1
58	157673	BRACKET, FILTER MOUNT 25HP	1
59	157677	TANK, FUEL MOD 3 GALLON	1
60	157679	TUBE, EXHAUST, 20HP	1
61	158400	STRAP ANCHOR FUEL TANK	2
62	159259	SCREW, HEX HEAD CAP M14-2 X 35 CL 8.8	2
63	159260	WASHER, SPLIT LOCK M14	2
64	159261	HOSE, SUCTION 1-1/4 X 8-1/2	1
65	1709AS669-01	J-BOLT 1/4-20 X 12	2
66	2024-12-12S	ELBOW, 90	1
67	119553	CONNECTOR, O-RING/37°	1
68	203102-12-12S	ADAPTER, TEE	1
69	2062-12-12S	ADAPTER, 90	4
70	206209-12-12S	ADAPTER, 90	1
71	2071-12-12S	ADAPTER, 90	1
72	2240-12-12S	ADAPTER, BULKHEAD	1
73	2481X	BATTERY 12V	1
74	3-120-010124	BATTERY CLAMP BRACKET	1
75	3-162-010001	FILLER-BREATHER-STRAINER ASSEMBLY	1
76	3-182-010028	CLAMP, MUFFLER	1
77	3-443-010018	LATCH, FLEXIBLE DRAW, LEVER ASSIST	2
78	514-9045-48	CABLE ASSEMBLY, BATTERY POSITIVE	1
79	514-9073-30	CABLE ASSEMBLY, BATTERY NEGATIVE	1
80	900598-12S	PLUG, O-RING	1
81	CA-1595	MACHINE MOUNT 40 DUROMETER	4

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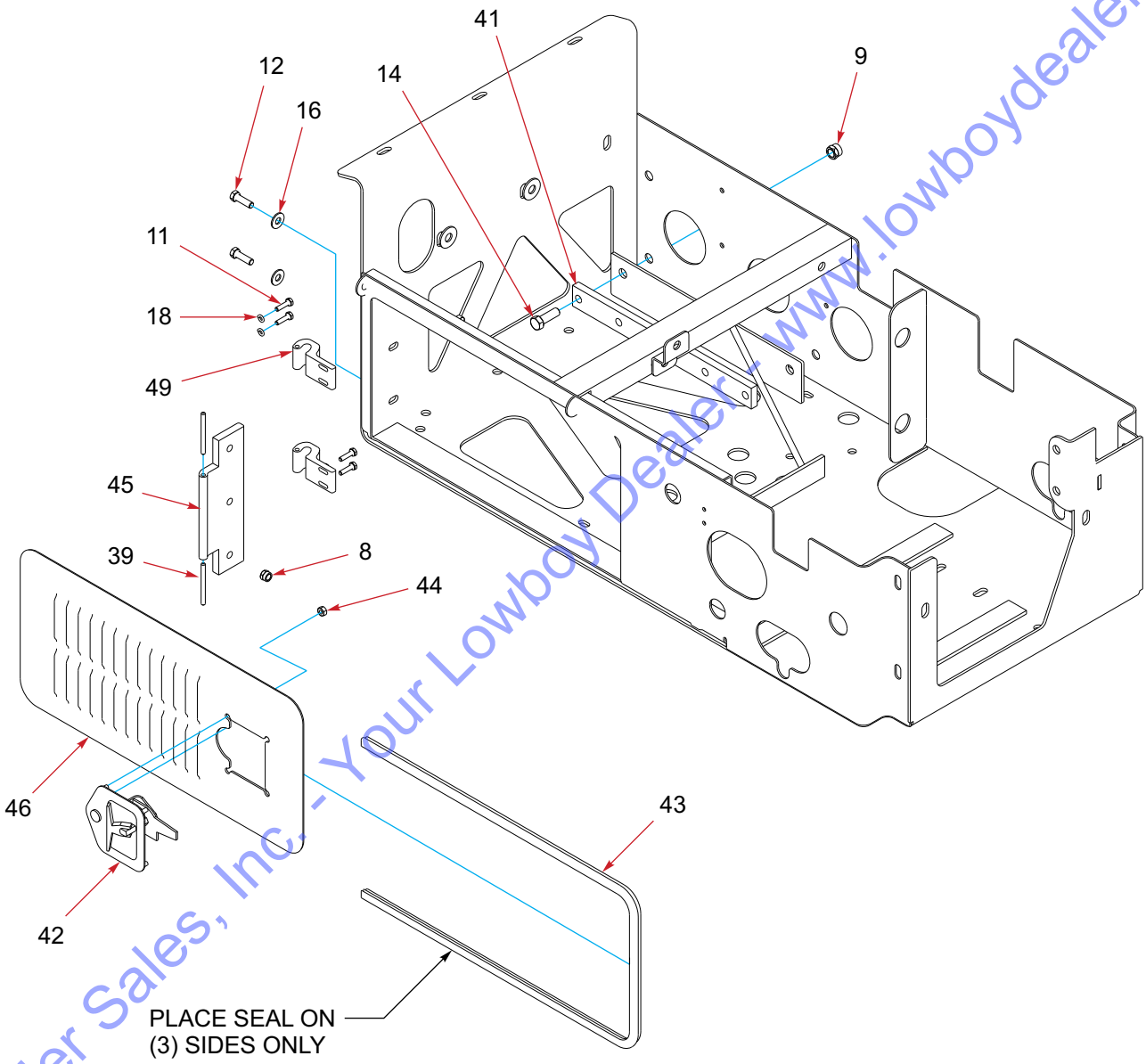
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Figure 1-96: Engine - 25 HP Upper Deck Package (1 of 4)



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Figure 1-97: Engine - 25 HP Upper Deck Package (2 of 4)



BASE - DOOR ASSEMBLY

Figure 1-98: Engine - 25 HP Upper Deck Package (3 of 4)

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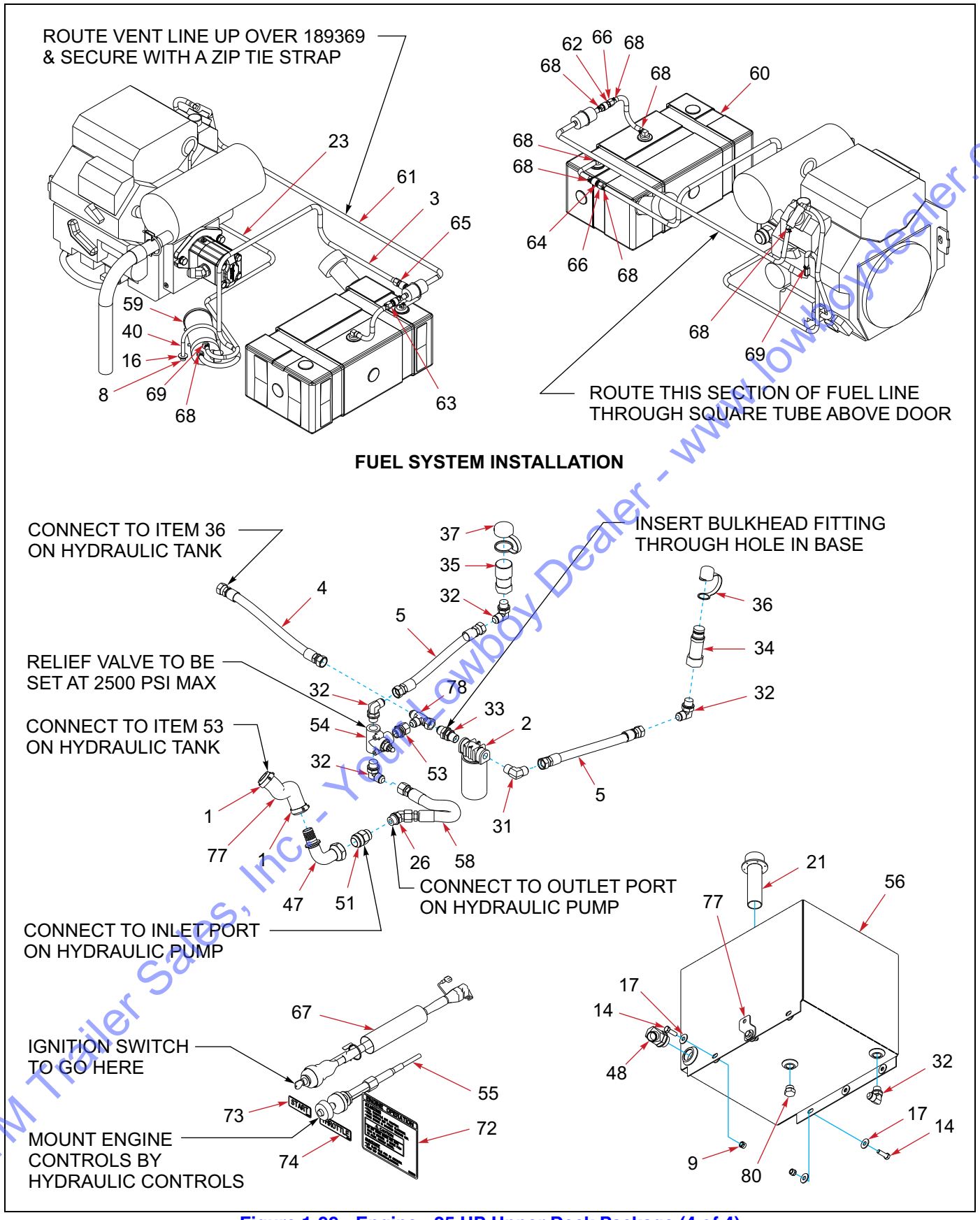


Figure 1-99: Engine - 25 HP Upper Deck Package (4 of 4)

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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	1
4	1-397-010304018	HOSE ASSY, 3/4 X 18, SAE37, STR-STB	1
5	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
6	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
7	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
8	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
9	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
10	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
11	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
12	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
13	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
14	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
15	1-654-010055-13	SCREW, HEX, 1/2-13 UNC X 4 GR5	2
16	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	19
17	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	14
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	1
24	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
25	3/8P COUPL	3/8 BLK PIPE COUPLING **(NOT SHOWN)**	1
26	40-0667-02	ADAPTER, 45 #8 O-RING-TUBE	1
27	110-0116	SCREW RD HD CAP 10-24X3/4	8
28	110-0253	WASHER,FLAT 3/16 STD	8
29	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
30	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
31	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
32	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	5
33	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
34	105479	COUPLER FLAT FACE MALE NOSE	1
35	105480	COUPLER FLAT FACE FEMALE BODY	1
36	105481	COUPLER DUST CAP MALE	1
37	105482	COUPLER DUST CAP FEMALE	1
38	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
39	108601	PIN, DOOR HINGE	2
40	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
41	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
42	114814	LATCH FOLDING T LOCKABLE	1
43	114815	SEAL, SPONGE RUBBER TRIM	1
44	115877	NUT HVY HEX 1/4-20 GR5	4
45	116326	HINGE,BASE MNT, COM ENG PKG	1
46	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1

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Engine - 25 HP Upper Deck Package

ITEM	PART NO.	DESCRIPTION	QTY.
47	116330	FITTING 1.25F 37-1.25 BARB 90	1
48	117873	FITTING,1.63-12 SAE-1 25H/B45	1
49	119206	HINGE, DOOR ENG DRV, 25HP	2
50	119445	EXHAUST EXT WLDMT 25HP E/P	1
51	119553	CONNECTOR,O-RING/37FL,20-16	1
52	120659	ISOLATOR, KOHLER 25HP MOUNT	2
53	120660	ADAPTER #12-O/RFEM-12#FL M	1
54	120661	VALVE,HYD PRES,#12SAE,2500P	1
55	128774	CABLE, THROTTLE 40'	2
56	129264	HYD TANK WLDMT, 30G E/P	1
57	138209	ADAPTER, HYD 45 #12, MAOLE-FEM ORB	2
58	143850	HOSE, 3/4 X 35, SAE 37, #12STR-#12STR	1
59	166766	CARBON CANISTER,FUEL TANK,GAS	1
60	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM	1
61	169532	HOSE, FUEL,1/4 LOW PERM, CARB	1
62	170109	FITTING,1/4MPT TO MALE QD,FORC	1
63	170110	FITTING, 5/16 BARB TO FEMALE QD, FORCE	1
64	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
65	170112	FITTING, 5/16 BARB TO FEMALE QD, SUZUKI	
66	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
67	178428	SWITCH & HARNESS KIT KOLHER 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 MNT	1
72	189309	DECAL, EFI ENG PKG INSTR	1
73	189310	DECAL, START, ENG PKG	1
74	189311	DECAL, THROTTLE, ENG PKG	1
75	189364	WELDMENT, HOOD ENG PKG, 25HP EFI	1
76	189369	PLATE, FUEL HOSE CLAMP	1
77	193904	HOSE, 1-1/4 X 7-1/2 SUCTION	1
78	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
79	900598-12S	PLUG, O-RING BOSS #12	1
80	2481X	BATTERY 12 VOLT	1
81	199105	FUEL FILTER KOHLER, 25-050-42-S **(NOT SHOWN)**	1

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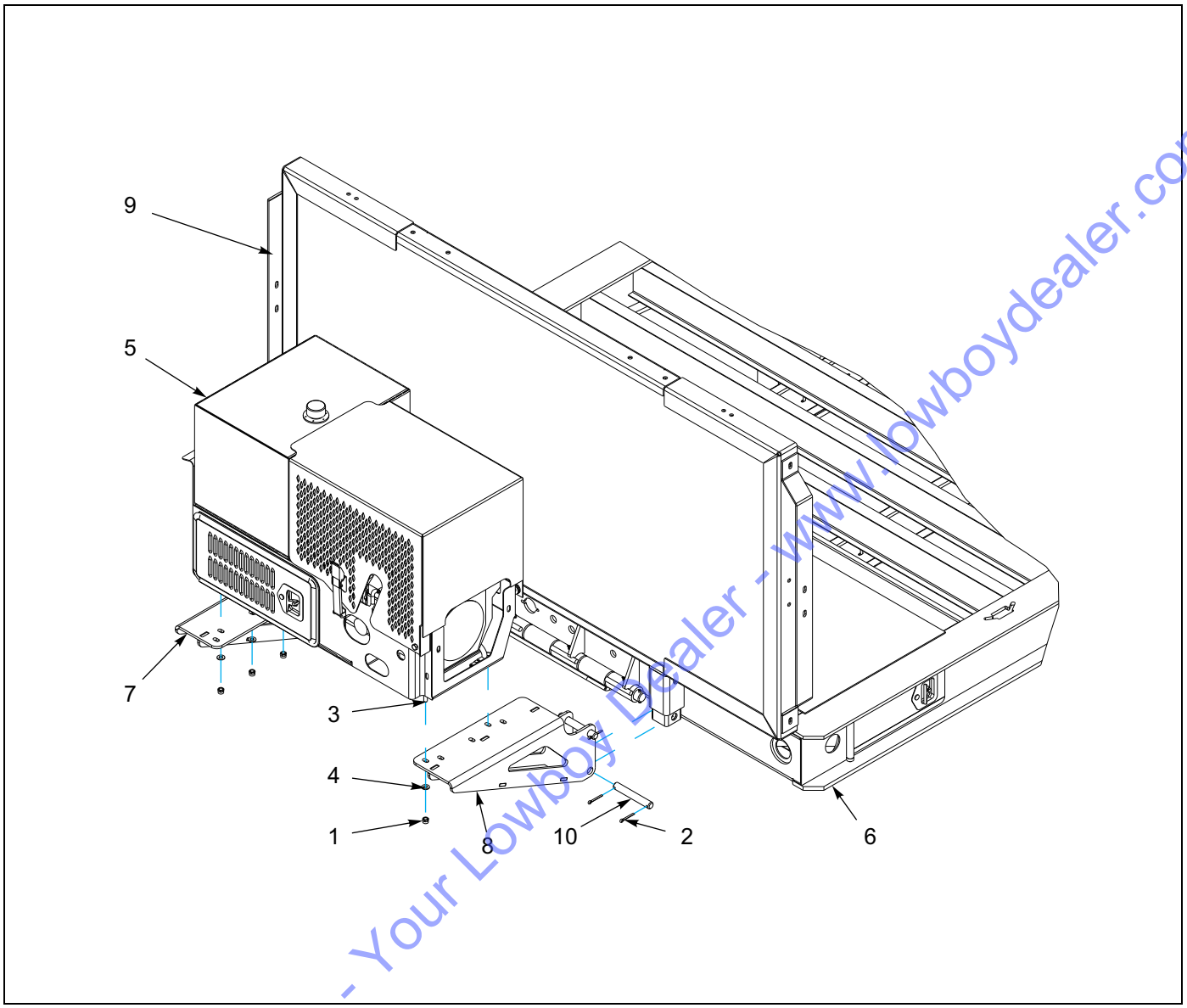


Figure 1-100: Engine - Front Mount Extension Package Installation

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 1-159)**	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 1-133)**	REF
10	3-557-010380	PIN, 1 X 6-7/8	4

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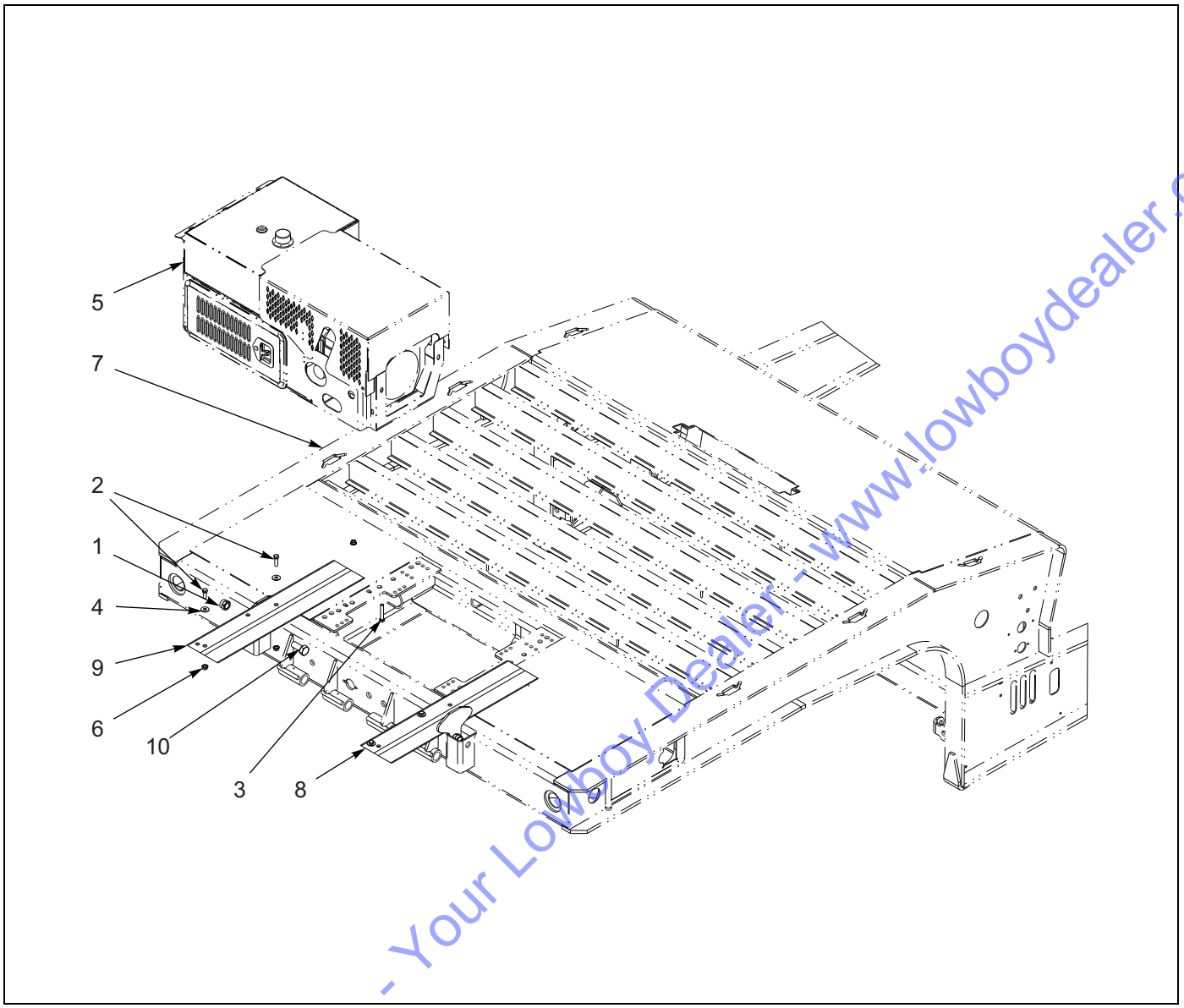


Figure 1-101: Engine - Front Mount Installation

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	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	123166	ENGINE PACKAGE 25 HP U/D **(SEE PAGE 1-159)**	REF
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	130662	GOOSENECK WELDMENT	REF
8	136581	MOUNT WELDMENT LH FRONT ENGINE PACKAGE	1
9	136582	MOUNT WELDMENT RH FRONT ENGINE PACKAGE	1
10	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

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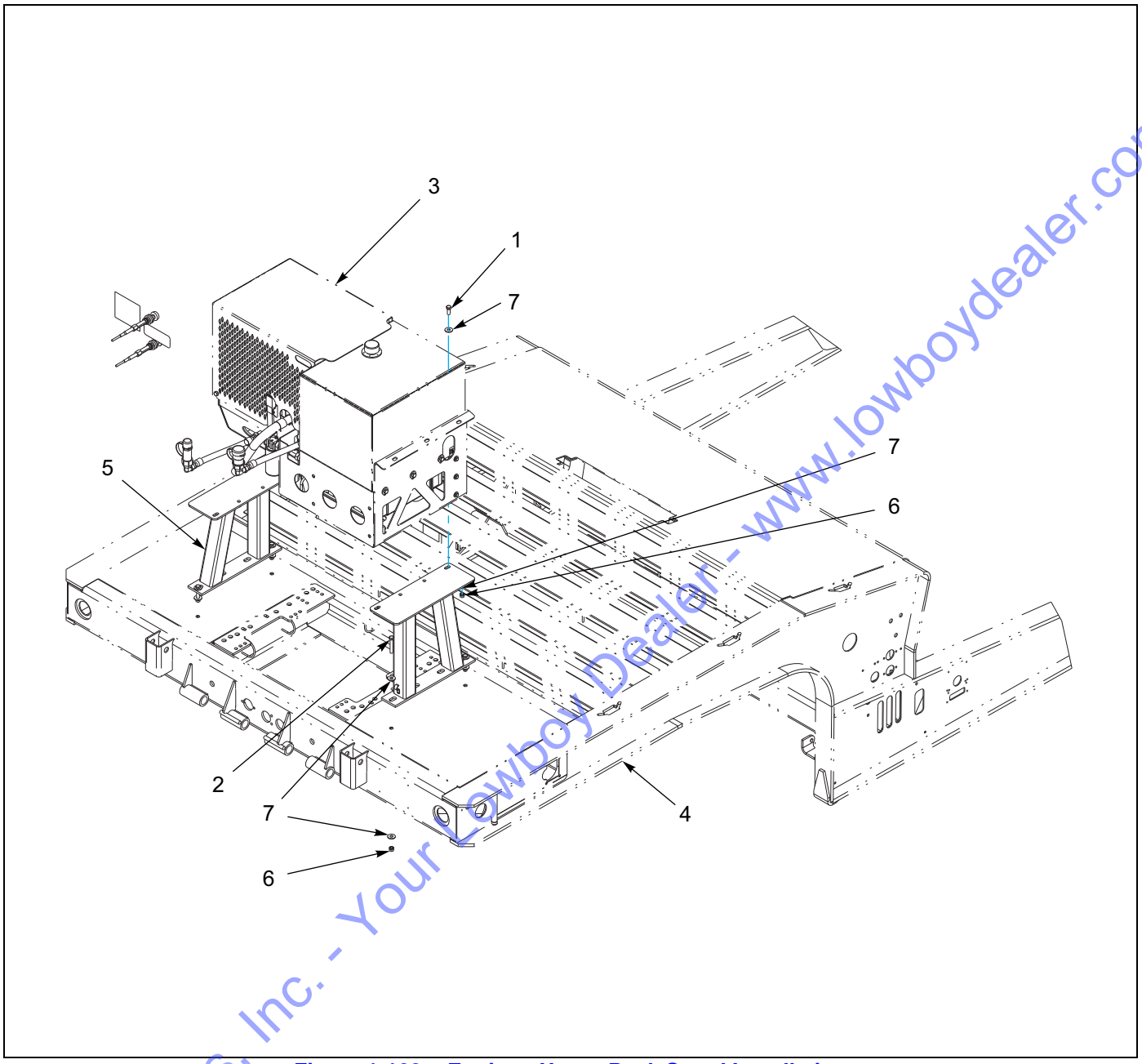


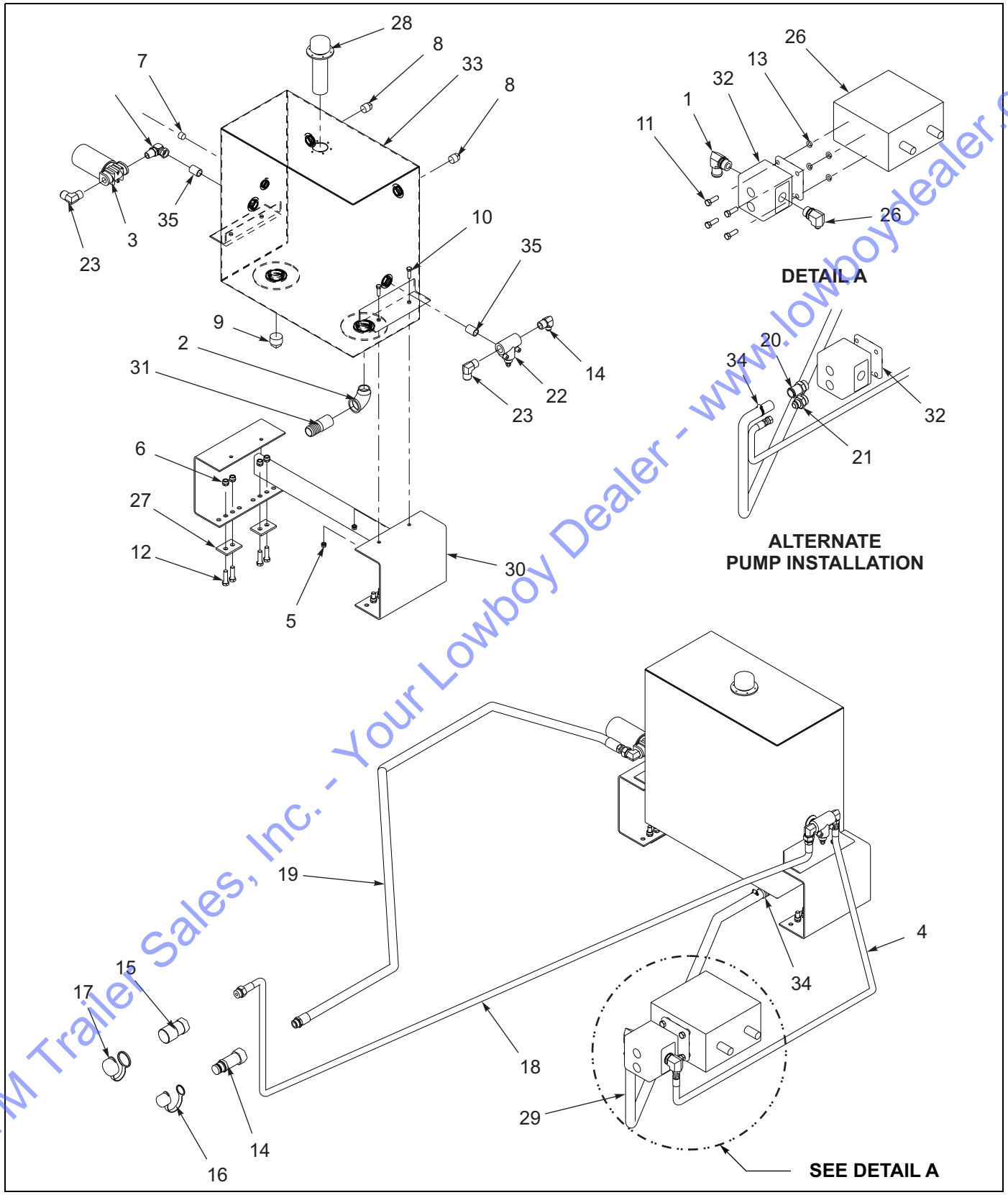
Figure 1-102: Engine - Upper Deck Stand Installation

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 1-153)**	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



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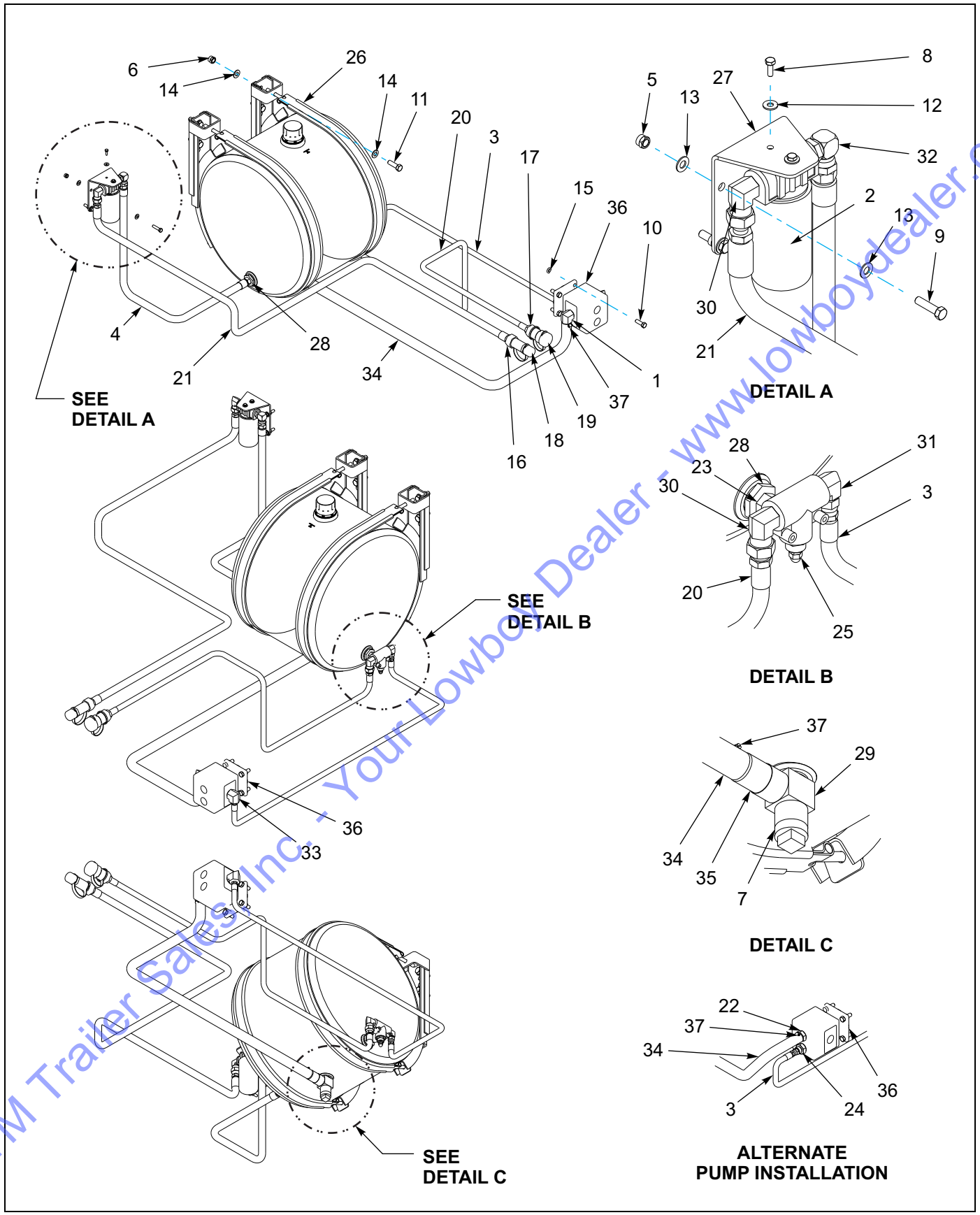
Figure 1-103: Hydraulic Wet Kit Items - 30 Gallon

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-BREATHER-STRAINER ASSEMBLY	1
29	3-399-010001	HOSE, 1-1/4 SUCTION	8’
30	3-482-010503	TANK MOUNT	1
31	3-561-010001	HOSE BARB 1-1/4	1
32	3-591-010001	HYDRAULIC GEAR PUMP	1
33	3-786-010043	TANK, HYDRAULIC	1
34	6828	IDEAL HOSE CLAMP	2
35	C3069X12	NIPPLE, HEX	2
36	PTO	POWER TAKE OFF	**1,0

** 1ST QUANTITY IS USED WITH P/N - 107498 &107499
2ND QUANTITY IS USED WITH P/N - 107500

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Figure 1-104: Hydraulic Wet Kit Items - 35 Gallon Aluminum

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

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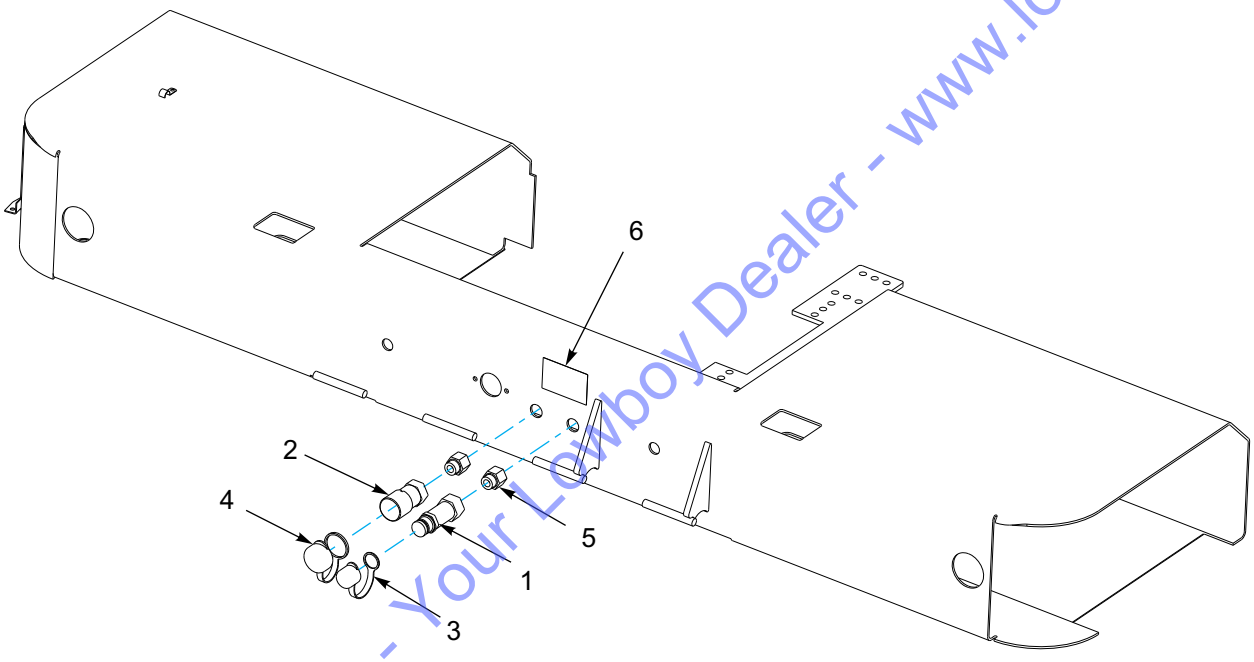


Figure 1-105: Hydraulic Conversion Kit - Ball to Flat

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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

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Hydraulic Park Stand

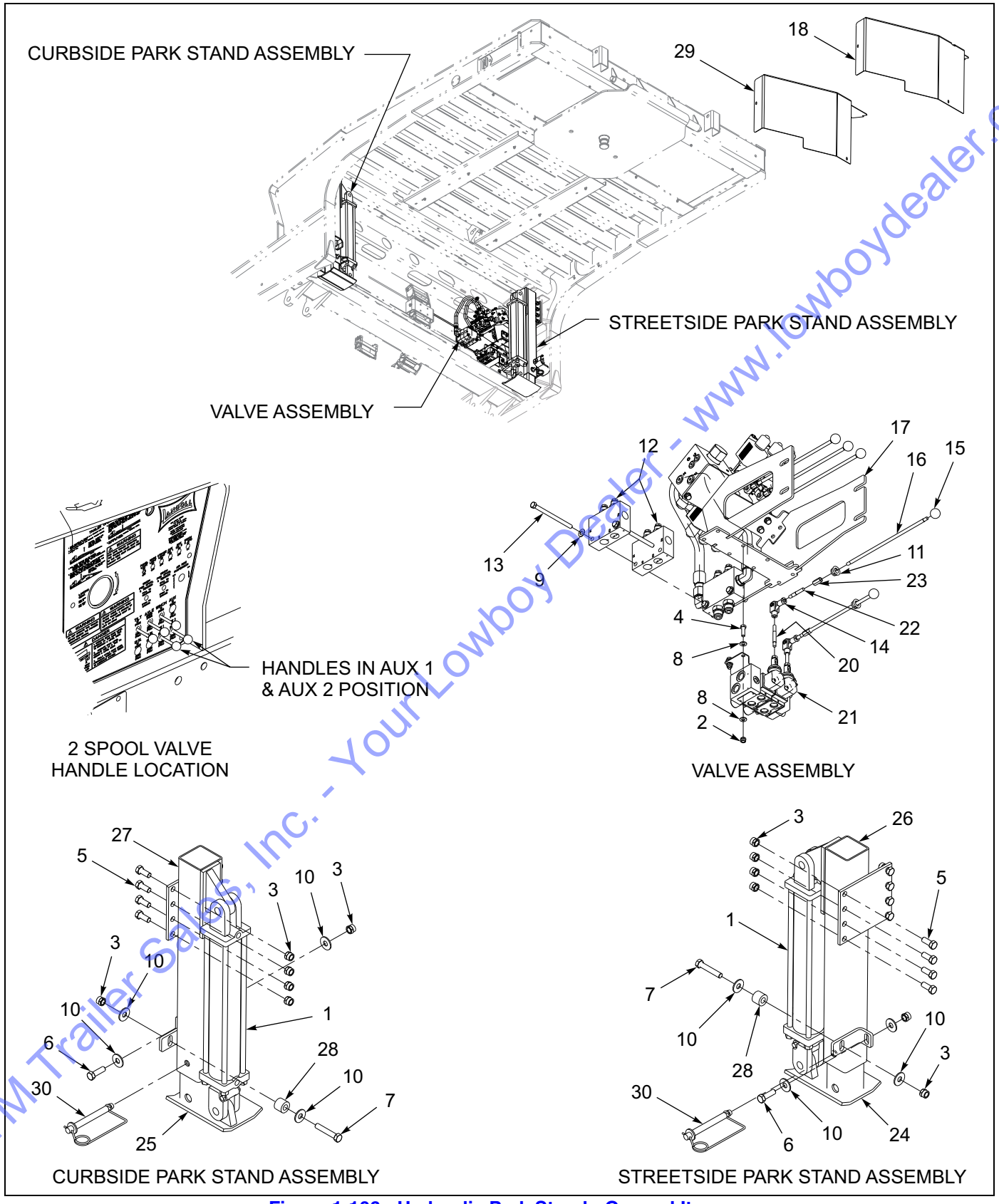


Figure 1-106: Hydraulic Park Stand - General Items

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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 1-179)**	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 M8X1.25	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

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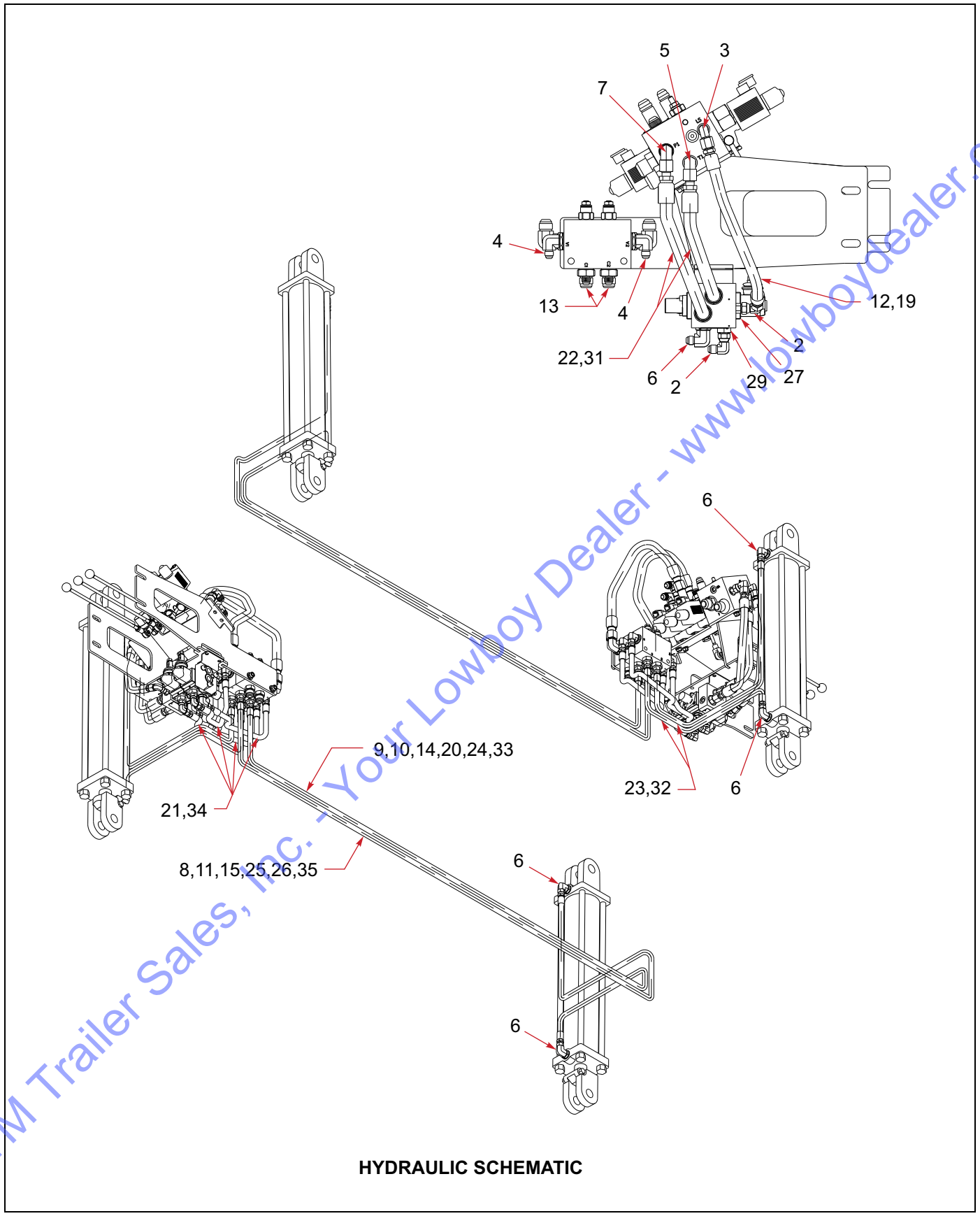


Figure 1-107: Hydraulic Park Stand - Hydraulic Items

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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 1-178)**	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	ADAPTER90 #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,#6JICFEMALE	--	--	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	--

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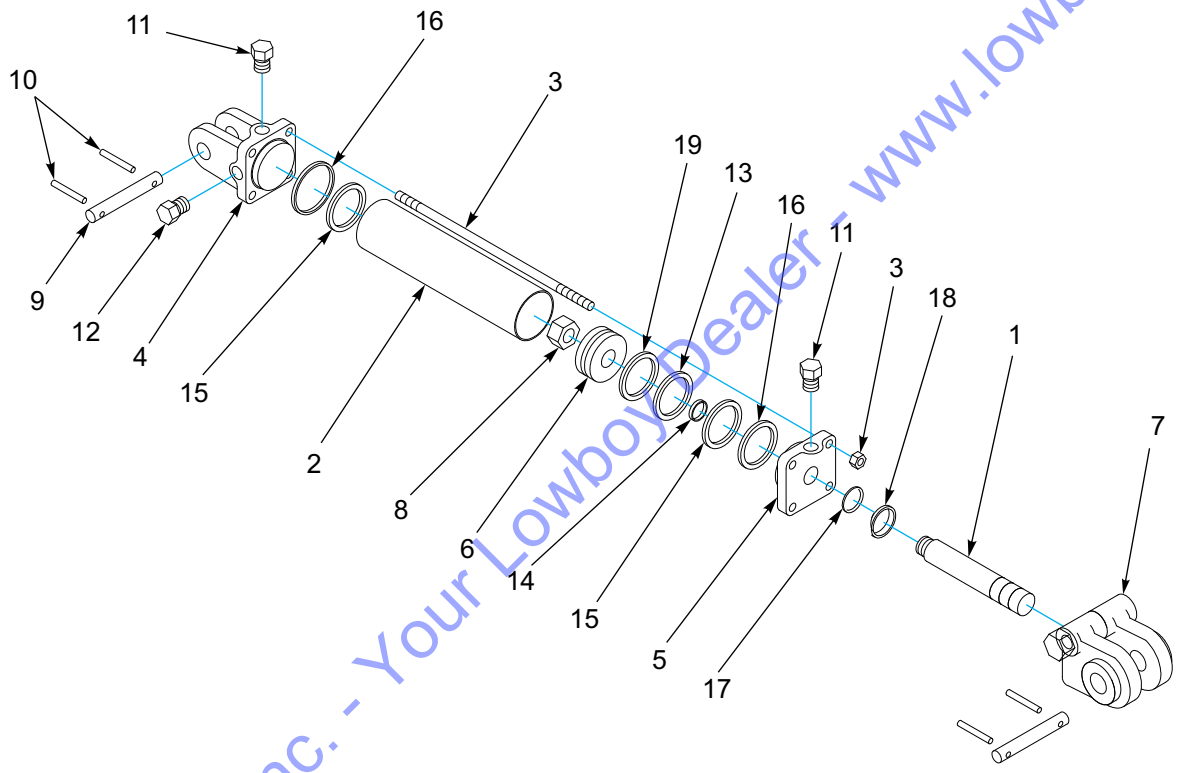


Figure 1-108: Hydraulic Cylinder - 3-1/2 X 20

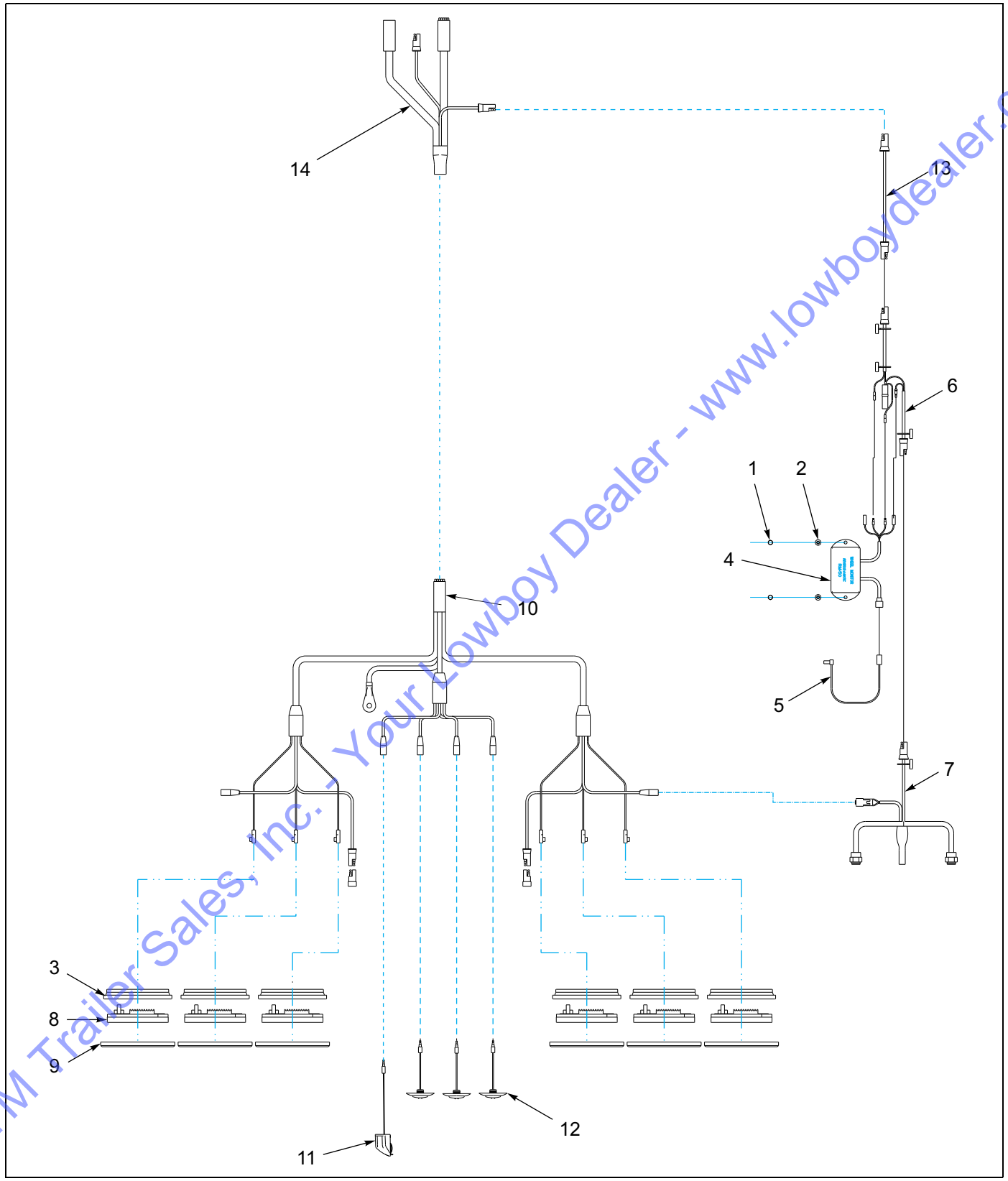
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Hydraulic Cylinder - 3-1/2 X 20

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	1-242-010180-2		CYLINDER, HYDRAULIC 3-1/2” X 20" **(PRINCE SAE 33520)**	
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
	1-242-010178-2	** PACKING KIT **(CONTAINS ALL NECESSARY SEALS AND O-RINGS) (ITEMS 13 - 19)**		1

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Light Installations



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Figure 1-109: 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

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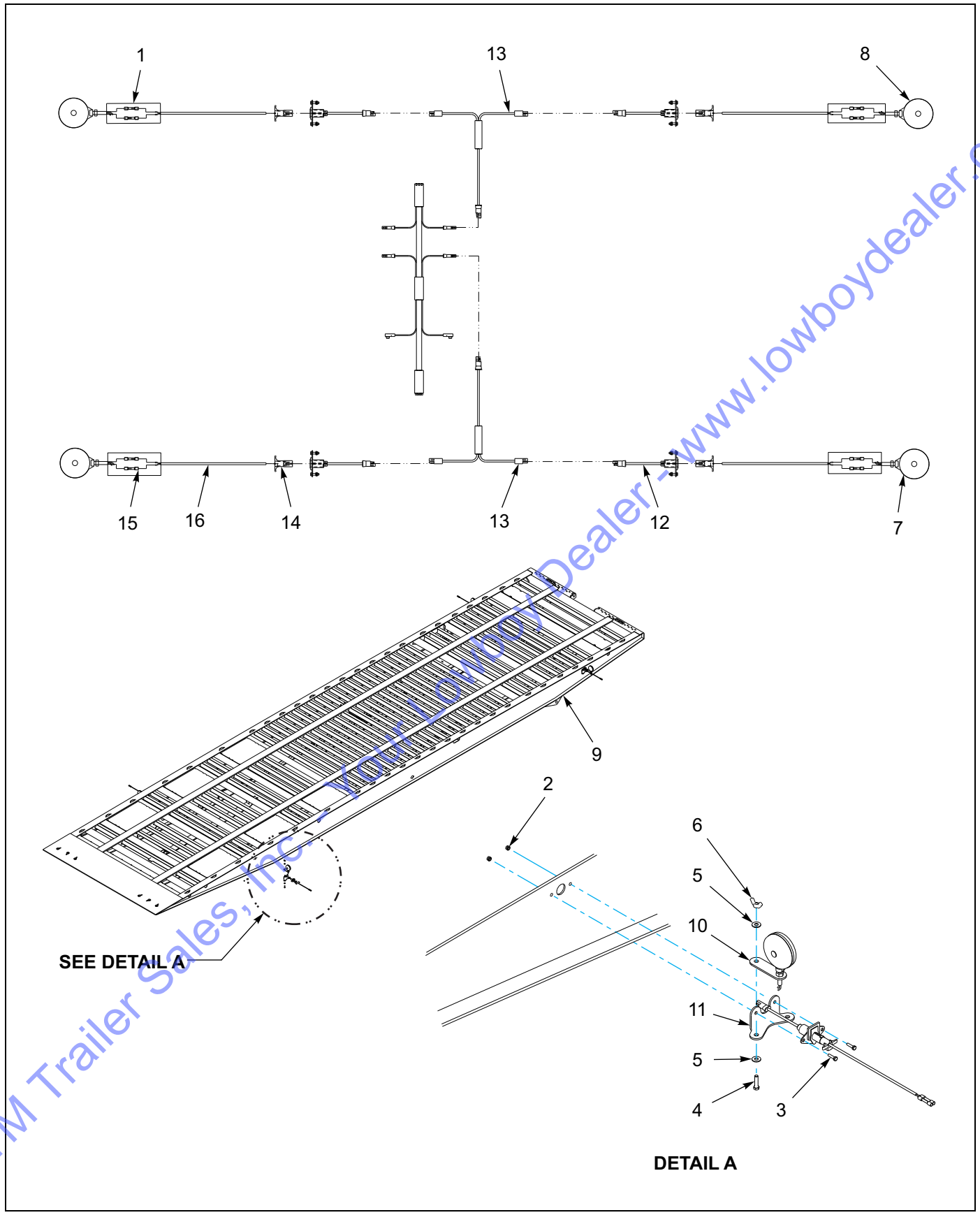


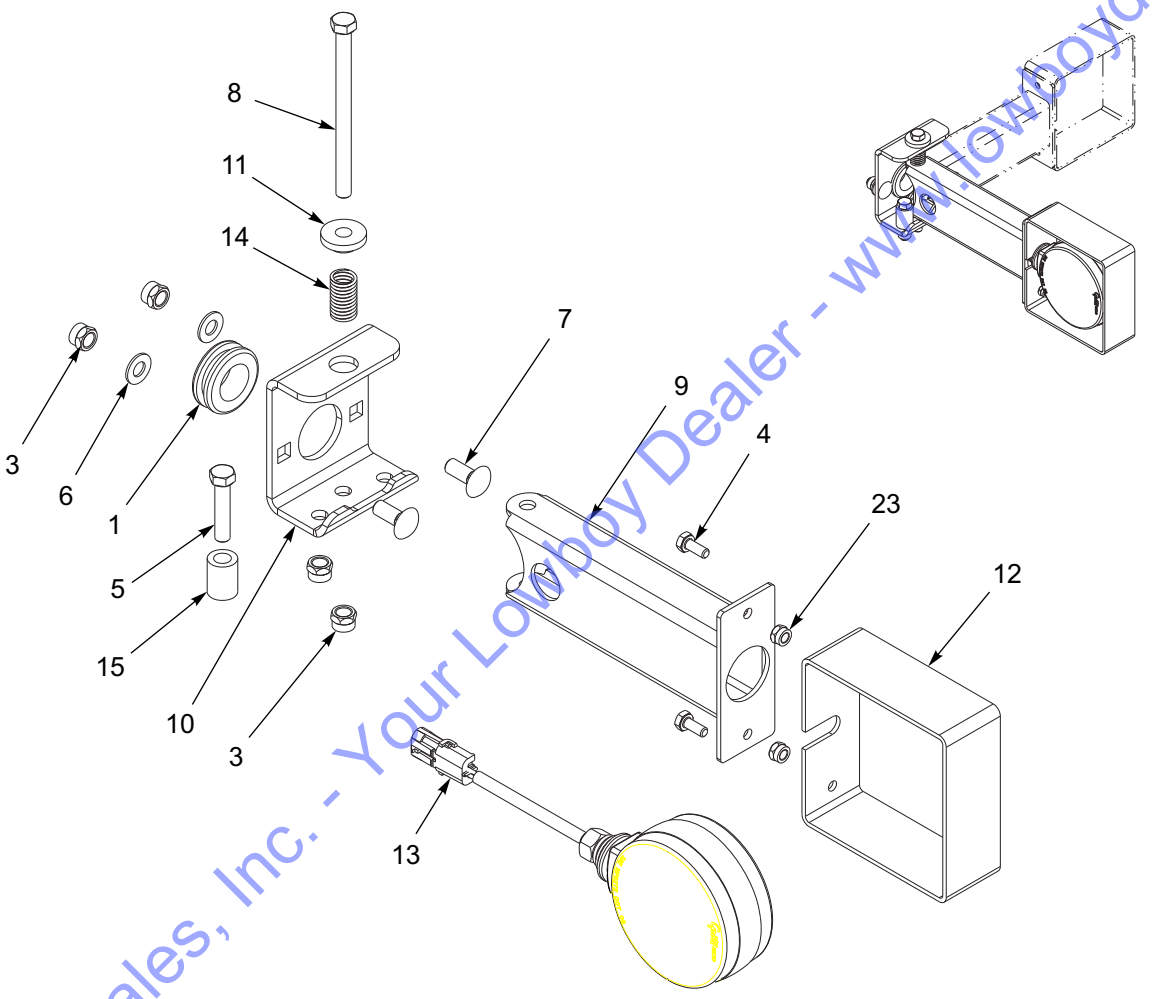
Figure 1-110: Four Corner Light Installation

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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

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Figure 1-111: Swing-Arm Light Installation

Swing-Arm Light Installation

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

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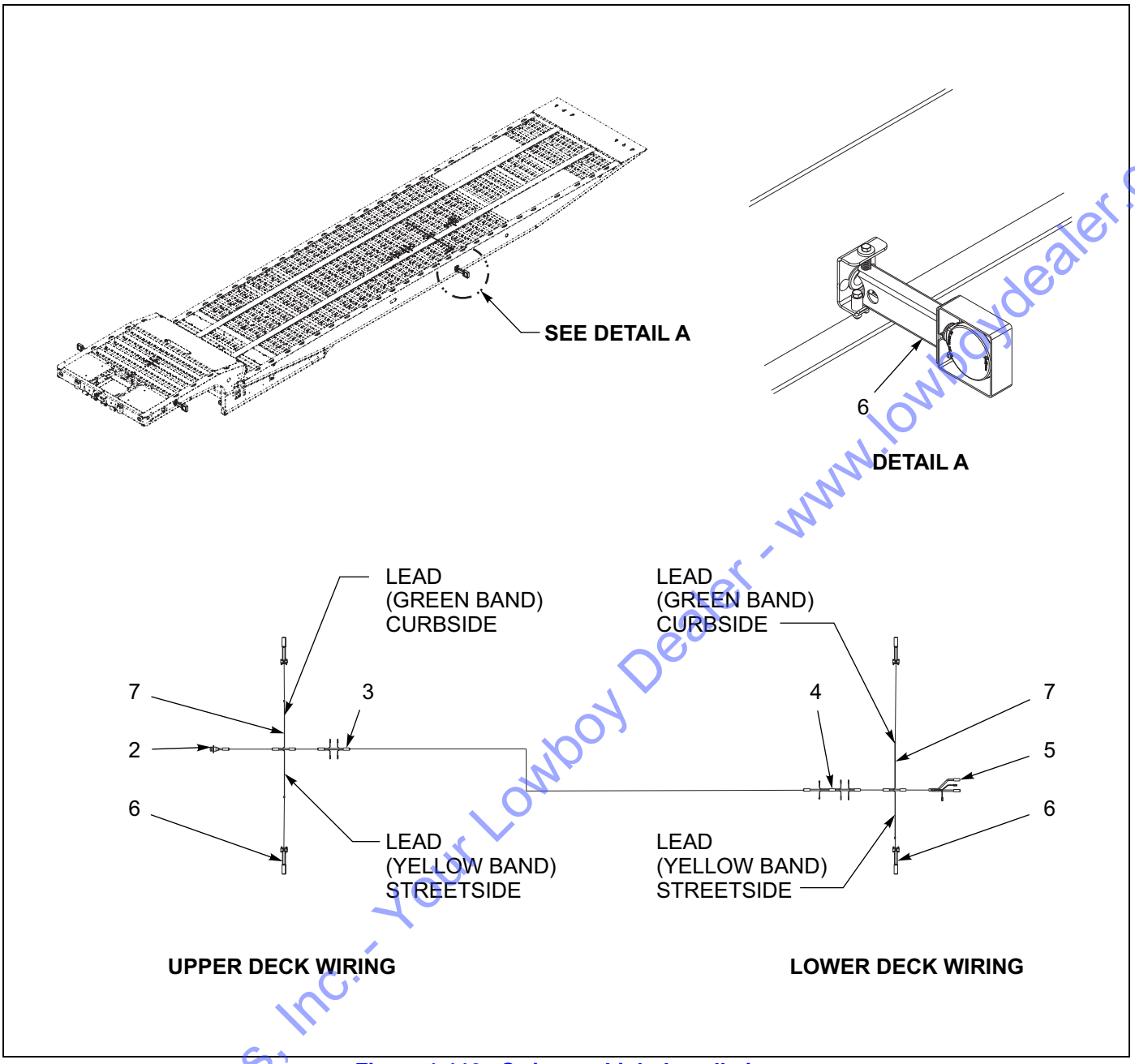


Figure 1-112: Swingout Light Installation

Swingout Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	179089	SWINGOUT LIGHT INSTALLATION	
1	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	12
2	143100	HARNESS, 7 WAY RECEPTACLE	REF
3	143101	HARNESS, FRONT MAIN	REF
4	143102	HARNESS, BED MAIN	REF
5	143103	HARNESS, E-CHAIN	REF
6	176420	SWING ARM LIGHT ASSY **(SEE PAGE 1-185)**	2
7	176432	HARNESS JUMPER EMERGENCY FLASH	1

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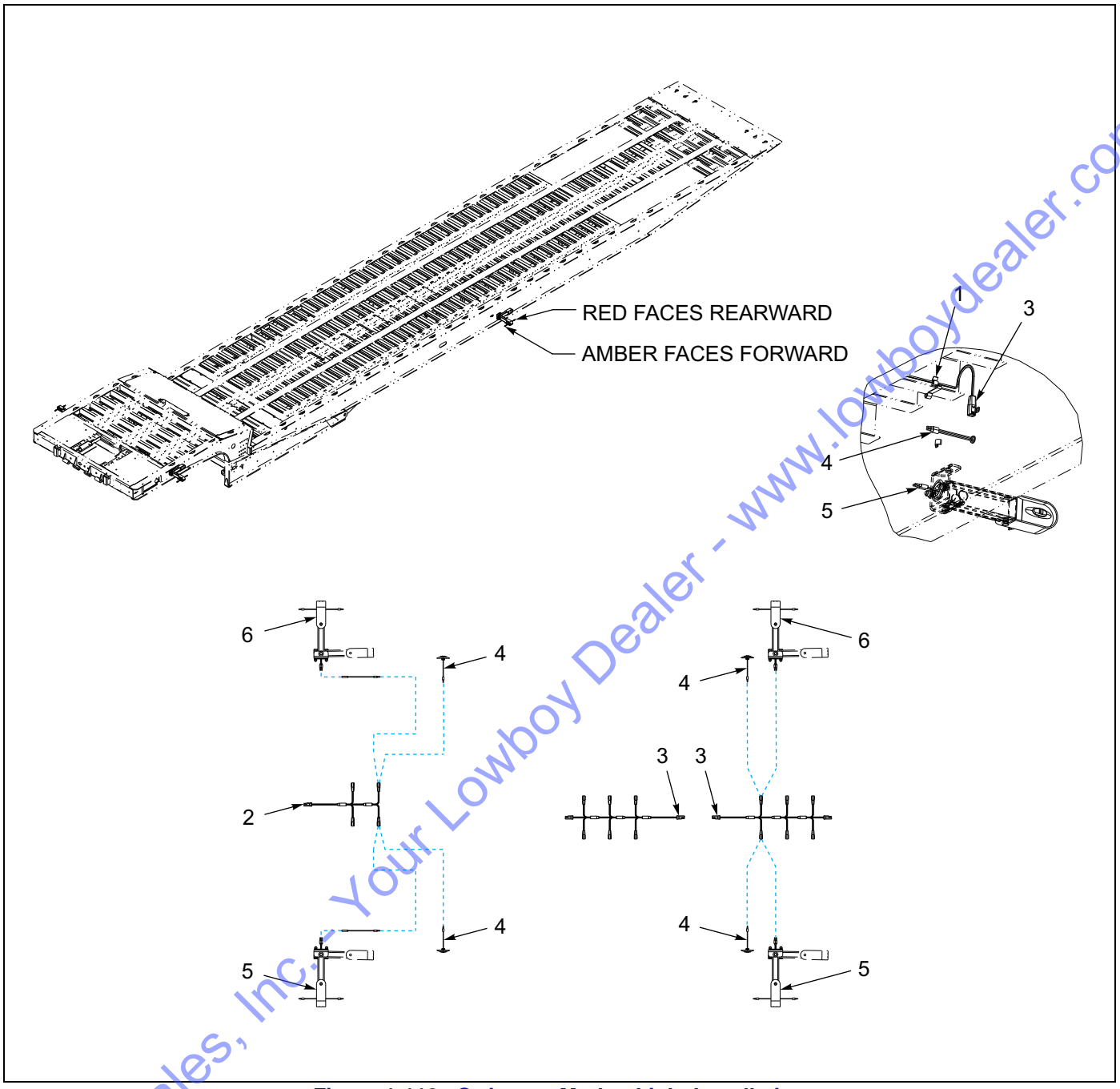


Figure 1-113: Swingout Marker Light Installation

Swingout Marker Light Installation

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,ST	1
6	191556	LIGHT ASSY,SWING-ARM MKR,CURB	1

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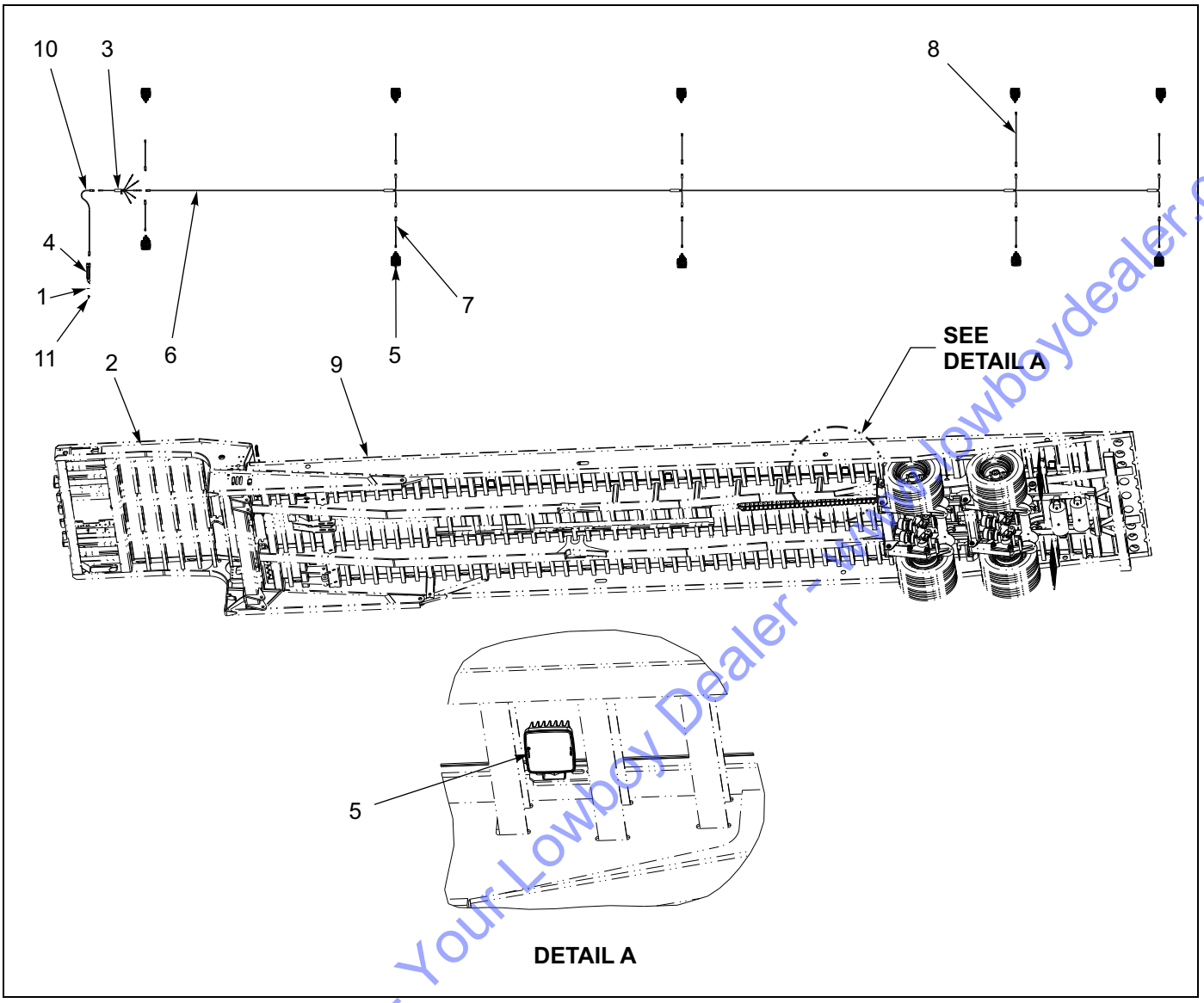


Figure 1-114: Under Deck - Light Installation

Under Deck - Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	168709	UNDERDECK LIGHT INSTALLATION - 440-53	
1	130116	DECAL, ON/OFF LIGHT	1
2	-----	GOOSENECK WELDMENT	REF
3	150093	HARNESS, 5 AUXILIARY BRANCHES	1
4	150117	TOGGLE SWITCH SEALED SPST	1
5	163996	LIGHT, LED WHITE FLOODLAMP	REF
6	164012	HARNESS, WORK LIGHT	1
7	164052	HARNESS, 60” BRANCH WORK LIGHT	2
8	164053	HARNESS, BRANCH WORK LIGHT 102”’	1
9	-----	FRAME, MOD UNDERDECK LIGHTS	REF
10	3-368-010252	HARNESS ASSEMBLY, BULKHEAD EXTENSION	1
11	81264	RUBBER BOOT FOR ELECT SWITCH	1

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Pullout Extensions

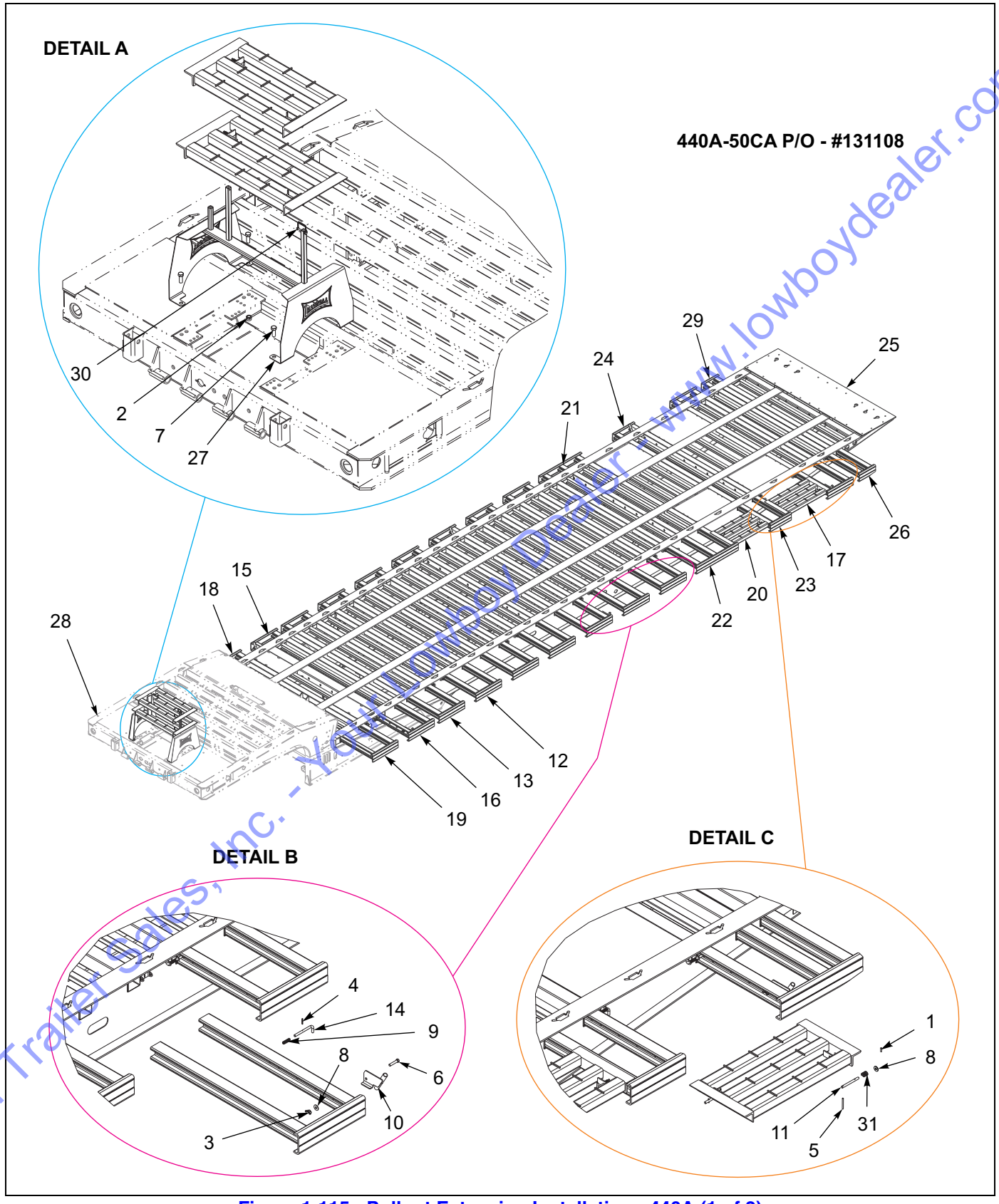
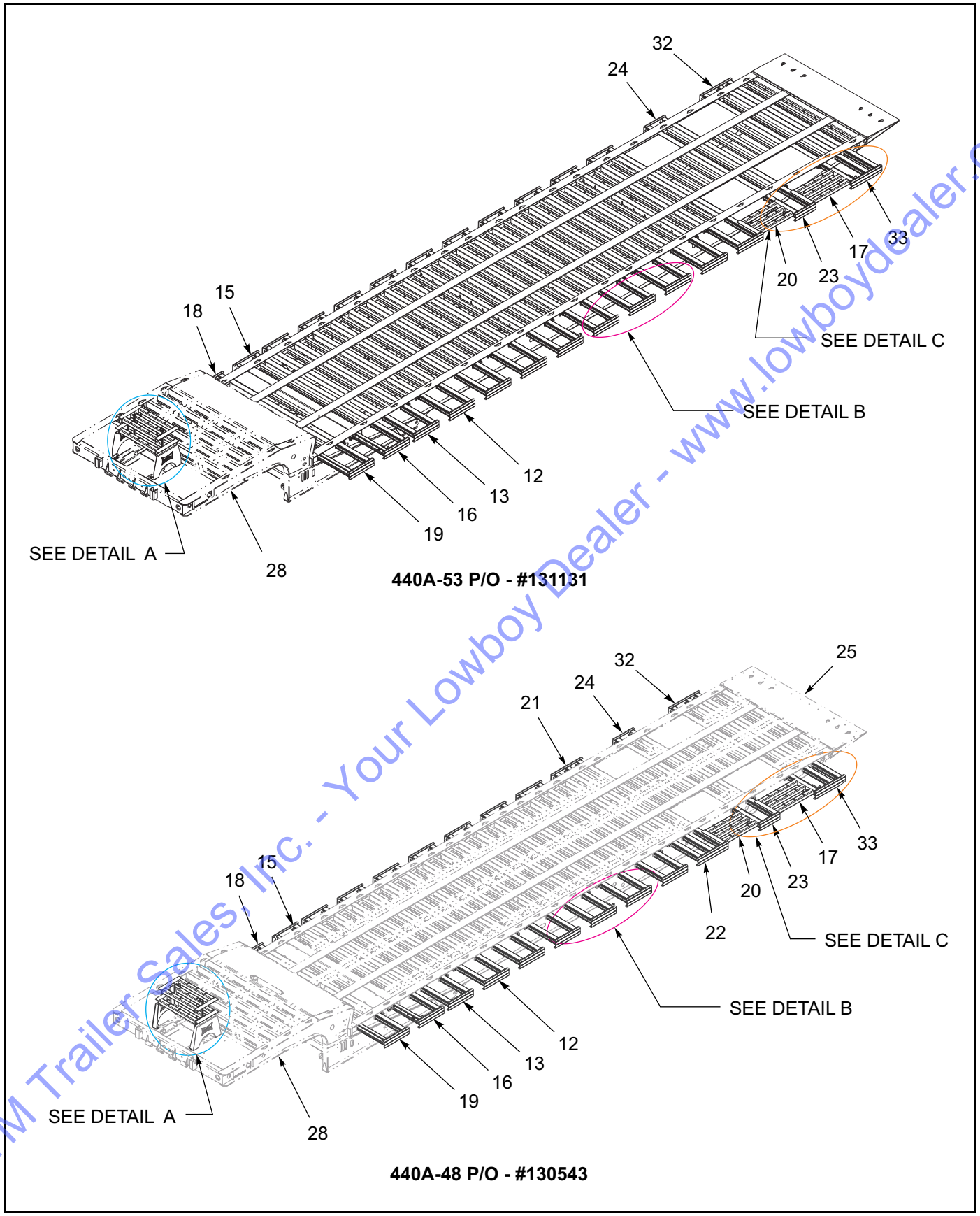


Figure 1-115: Pullout Extension Installation - 440A (1 of 2)

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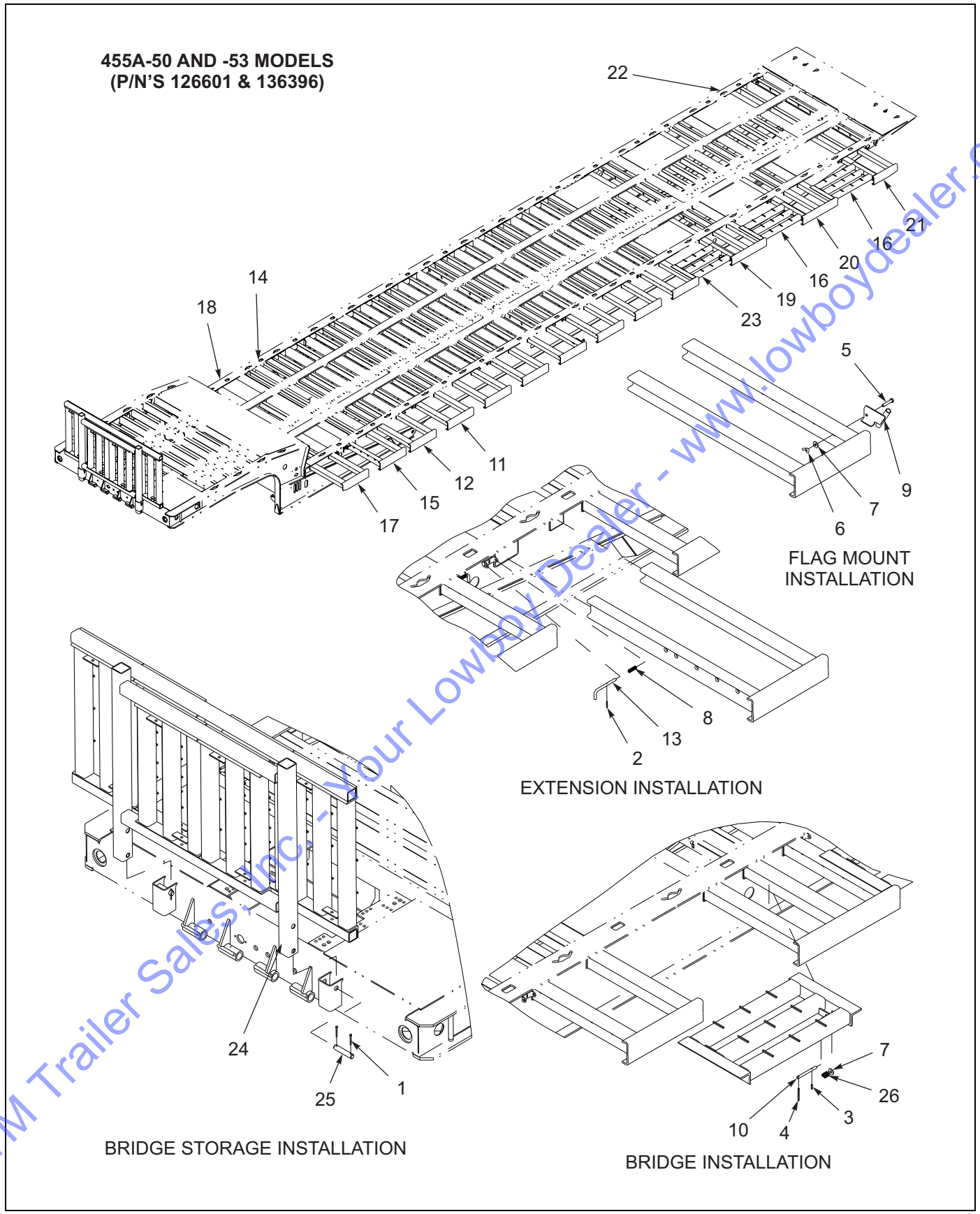
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Figure 1-116: Pullout Extension Installation - 440A (2 of 2)

Pullout Extension Installation - 440A

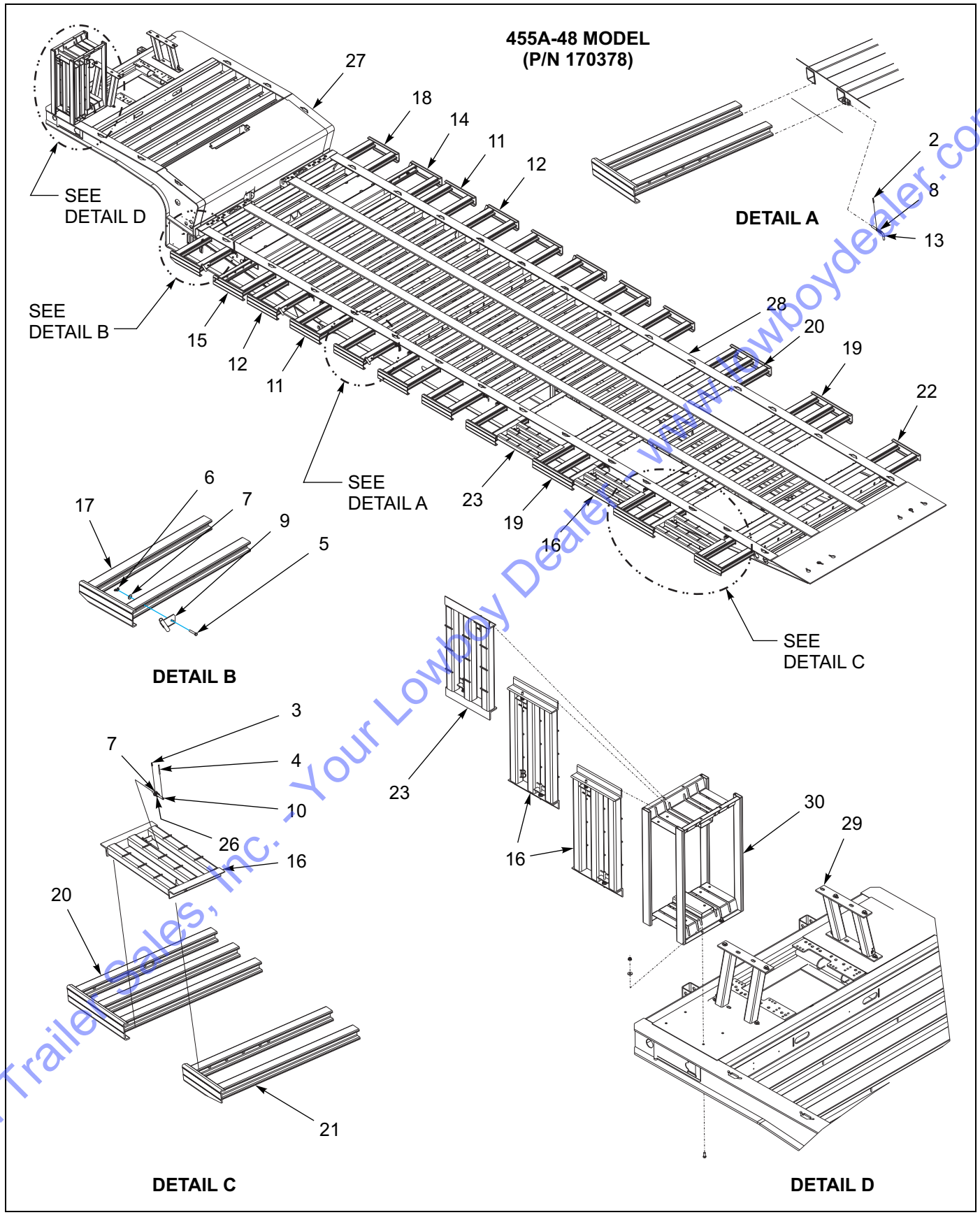
ITEM	PART NO.	DESCRIPTION	QTY.		
	131108	PULLOUT EXTENSION INSTALLATION 450-50CA	*		
	131131	PULLOUT EXTENSION INSTALLATION 440-53		*	
	130543	PULLOUT EXTENSION INSTALLATION 440-48			*
1	0600-250-01000	PIN, ROLL 1/4 X 1	8	8	8
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4	4	4
3	1-533-010001	NUT, WING 1/2-13	6	6	6
4	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	26	28	24
5	1-647-010004225	PIN, ROLL 1/4 X 3	8	8	8
6	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6	6	6
7	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4	4	4
8	1-861-010032-15	WASHER, FLAT 1/2W	14	14	14
9	104253	SPRING, COMPRESSION P/O EXT LOCK	26	28	24
10	108859	WELDMENT, BRACKET FLAG HOLDER	6	6	6
11	118723	PIN, SLIDE LOCK EXT	8	8	8
12	118929	PULLOUT ASSEMBLY LH	8	10	7
13	118930	PULLOUT ASSEMBLY RH	8	10	7
14	120457	PIN, P/O EXT LOCK	26	28	24
15	120458	PULLOUT ASSEMBLY FRT RH	1	1	1
16	120459	PULLOUT ASSEMBLY FRT LH	1	1	1
17	120492	EXT. WLDMT REAR WHEEL WELL	2	2	2
18	131232	PULLOUT WELDMENT AL FRT LH	1	1	1
19	131233	PULLOUT WELDMENT AL FRT RH	1	1	1
20	126609	EXTENSION WELDMENT FRT WHEEL WELL	2	2	2
21	130584	PULLOUT WELDMENT AL RH 36/14&14	1	--	--
	130544	PULLOUT WELDMENT AL RH 27/10&10	--	--	1
22	130583	PULLOUT WELDMENT AL LH 36/14&14	1	--	--
	130545	PULLOUT WELDMENT AL LH 27/10&10	--	--	1
23	130546	PULLOUT WELDMENT AL RH	1	1	1
24	130547	PULLOUT WELDMENT AL LH	1	1	1
25	130580	FRAME WELDMENT, 435-50 CA P/O	REF	--	--
	131121	FRAME WELDMENT, 435-53 P/O	--	REF	--
	130915	FRAME WELDMENT, 435-48 P/O	--	--	REF
26	130585	PULLOUT WELDMENT AL REAR LH	1	--	--
27	130553	RACK WELDMENT, PULLOUT	1	1	1
28	130662	GOOSENECK WELDMENT	REF	REF	REF
29	130586	PULLOUT WELDMENT AL REAR RH	1	--	--
30	516-22PTL	RETAINING PIN MUD FLAP	1	1	1
31	CO-975-74-2000	SPRING, COMPRESSION	8	8	8
32	130548	PULLOUT WELDMENT AL REAR RH	--	1	1
33	130549	PULLOUT WELDMENT AL REAR LH	--	1	1

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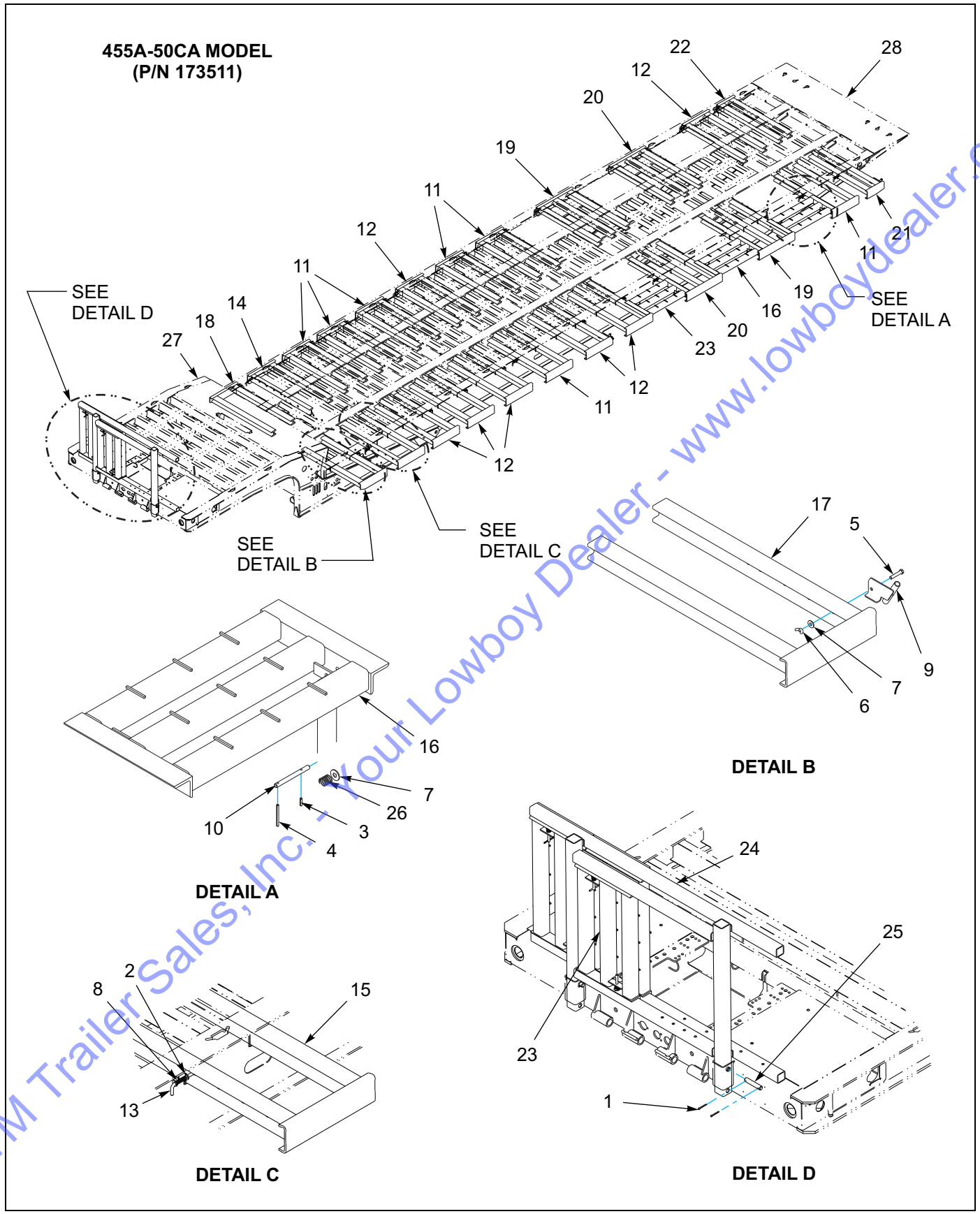
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Figure 1-117: Pullout Extension Installation - 455A (1 of 3)



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Figure 1-118: Pullout Extension Installation - 455A (2 of 3)



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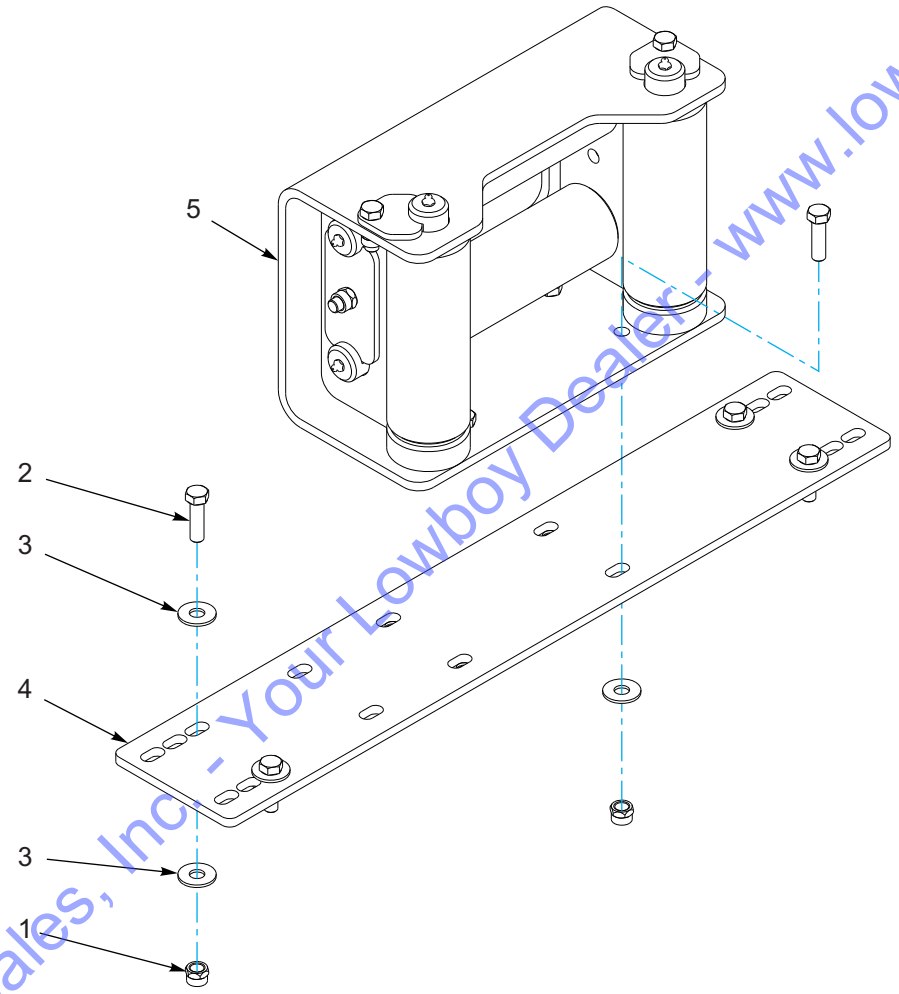
Figure 1-119: Pullout Extension Installation - 455A (3 of 3)

Pullout Extension Installation - 455A

ITEM	PART NO.	DESCRIPTION	QTY.			
	126601	PULLOUT EXTENSION INSTALLATION 455-53	*			
	136396	PULLOUT EXTENSION INSTALLATION 455-50		*		
	170378	PULLOUT EXTENSION INSTALLATION 455-48			*	
	173511	PULLOUT EXTENSION INSTALLATION 455-50CA				*
1	1-557-010362-63	PIN, COTTER 1/4 X 2	4	4	--	4
2	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	26	24	22	--
3	1-647-010004213	PIN, SPRING SLOTTED 1/4 X1	12	--	12	--
	0600-250-01000	PIN, ROLL 1/4 X 1	--	12	--	12
4	1-647-010004225	PIN, ROLL 1/4 X 3	12	12	12	12
5	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6	6	6	6
6	1-533-010001	NUT, WING 1/2-13	6	6	6	6
7	1-861-010032-15	WASHER, FLAT 1/2W	18	18	18	18
8	104253	SPRING, COMPRESSION P/O EXT LOCK	26	24	22	24
9	108859	WELDMENT, BRACKET FLAG HOLDER	6	6	6	6
10	118723	PIN, SLIDE LOCK EXT	12	12	12	12
11	118929	PULLOUT ASSEMBLY LH	8	6	6	7
12	118930	PULLOUT ASSEMBLY RH	8	6	6	7
13	120457	PIN, P/O EXT LOCK	26	24	22	24
14	120458	PULLOUT ASSEMBLY FRT RH	1	1	1	1
15	120459	PULLOUT ASSEMBLY FRT LH	1	1	1	1
16	120492	EXT. WLDMT REAR WHEEL WELL	4	4	4	4
17	122913	PULLOUT CLIPPED RH	1	1	1	1
18	122916	PULLOUT CLIPPED	1	1	1	1
19	126602	PULLOUT WELDMENT AL WHEEL WELL RH	2	2	2	2
20	126603	PULLOUT WELDMENT AL WHEEL WELL LH	2	2	2	2
21	126605	PULLOUT WELDMENT AL REAR LH	1	1	1	--
	130585	PULLOUT WELDMENT AL REAR LH	--	--	--	1
22	126606	PULLOUT WELDMENT AL REAR RH	1	1	1	--
	130586	PULLOUT WELDMENT AL REAR RH	--	--	--	1
23	126609	EXTENSION WELDMENT FRT WHEEL WELL	2	2	2	2
24	126610	RACK WLDMT STORAGE EXT BRIDGES	1	1	--	1
25	2-557-010006	PIN, 1 X 6-1/2	2	--	--	--
	6-557-010163	PIN, 1 X 5-1/8	--	2	--	2
26	CO-975-74-2000	SPRING, COMPRESSION	12	12	12	12
27	-----	FRAME ASSEMBLY, G/N	REF	REF	REF	REF
28	-----	FRAME WELDMENT	REF	REF	REF	REF
29	136578	UPPER DECK STAND INSTALLATION	--	--	REF	--
30	136828	RACK, UPPER DECK EXTENSION BRIDGE STORAGE **(USED W/ ENG PKG) (SEE PAGE 1-213)**	--	--	1	--

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Roller Guides - Options



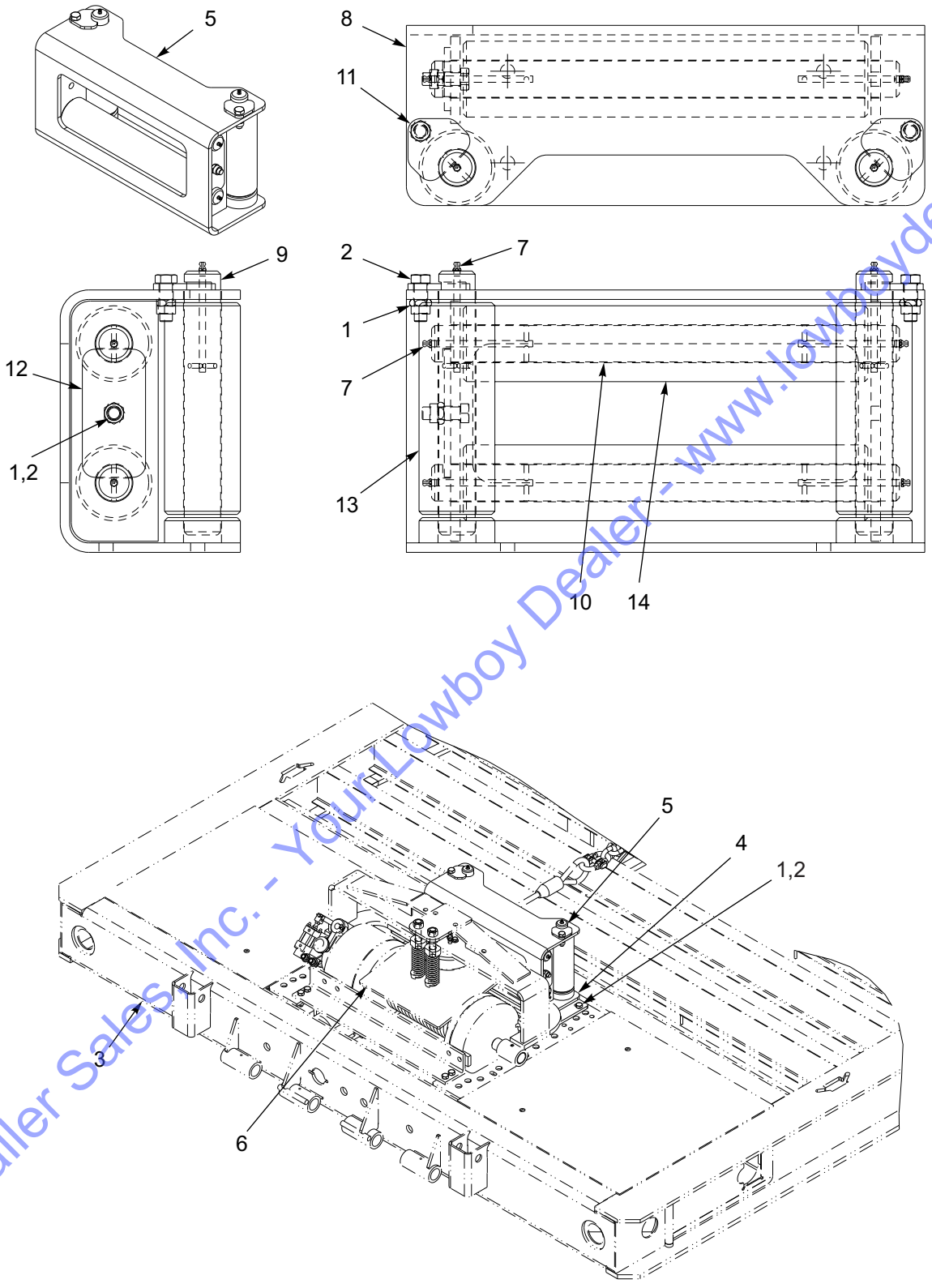
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Figure 1-120: 4 Roller Guide Installation 12K (BRADEN)

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 1-218)**	1

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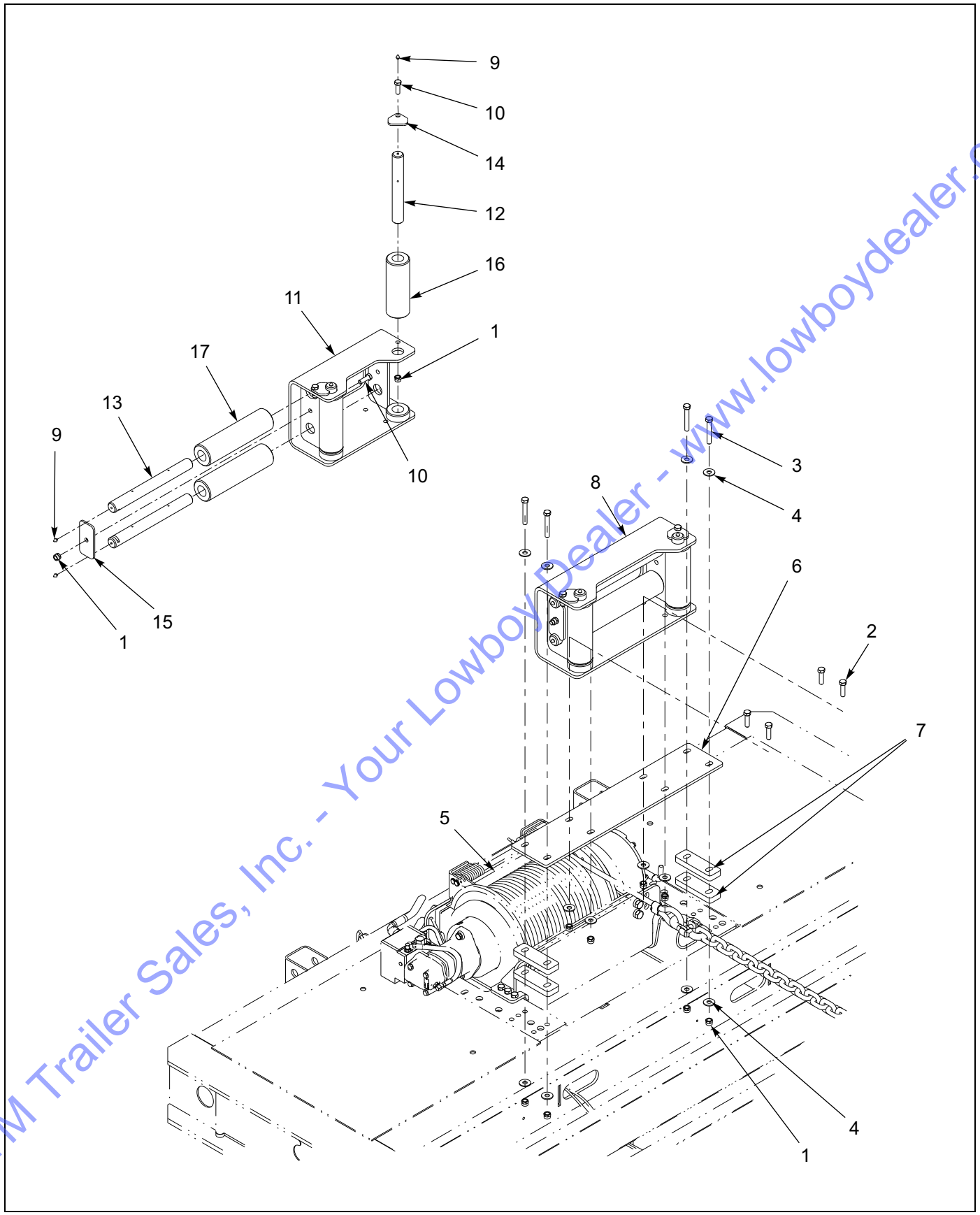
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Figure 1-121: 4 Roller Guide Installation - 20K (BRADEN)

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

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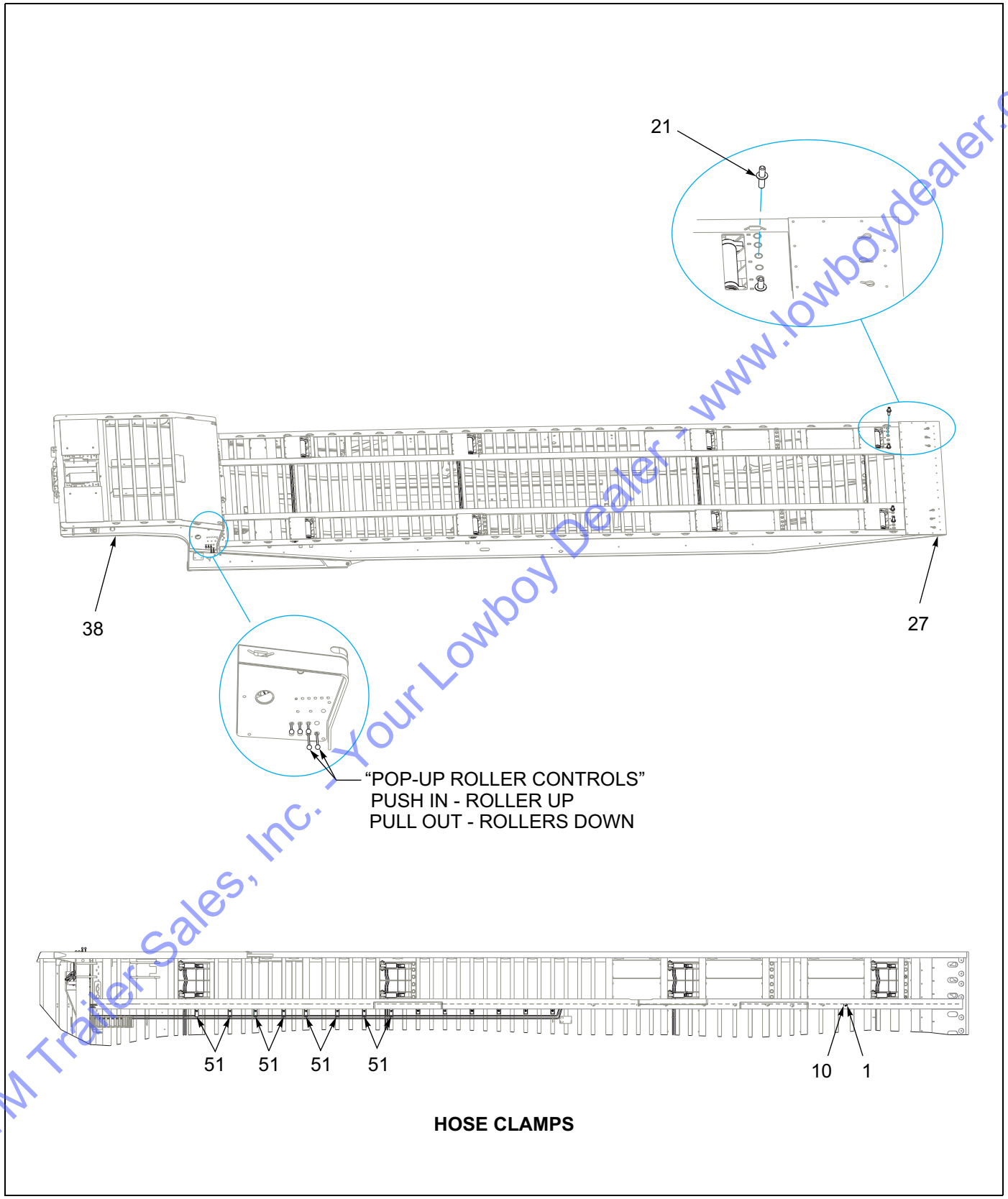
Figure 1-122: 4 Roller Guide Installation - 20K/30K (WARN)

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

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Roller Installation



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Figure 1-123: 8 Pop-Up Roller Installation (1 of 2)

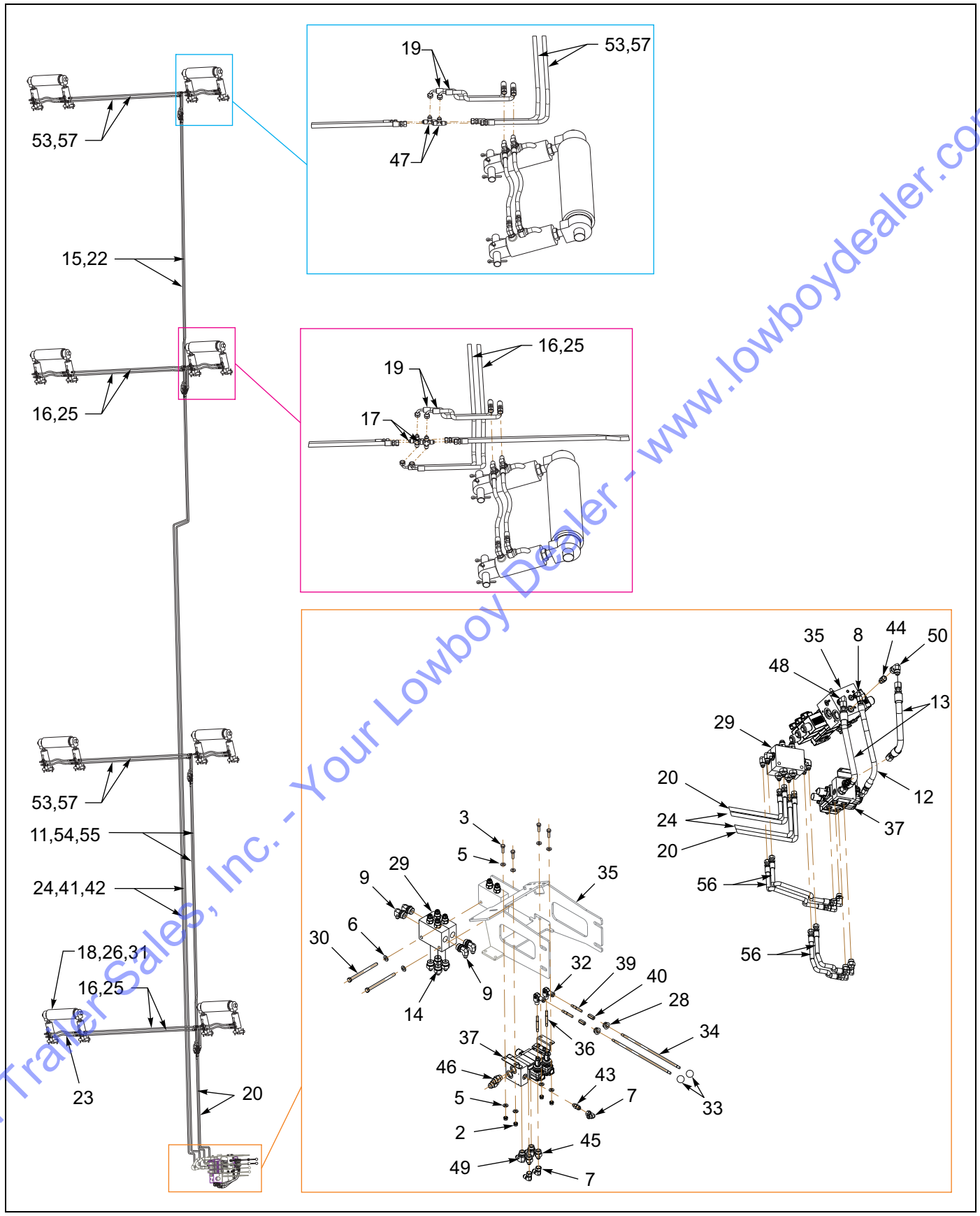


Figure 1-124: 8 Pop-Up Roller Installation (2 of 2)

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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

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8 Pop-Up Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
29	184585	VALVE,DUAL COUNTER BALANCE,30G	2
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 1-127)**	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	3-201-010002	CONDUIT 3/8 PLASTIC FLEX	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

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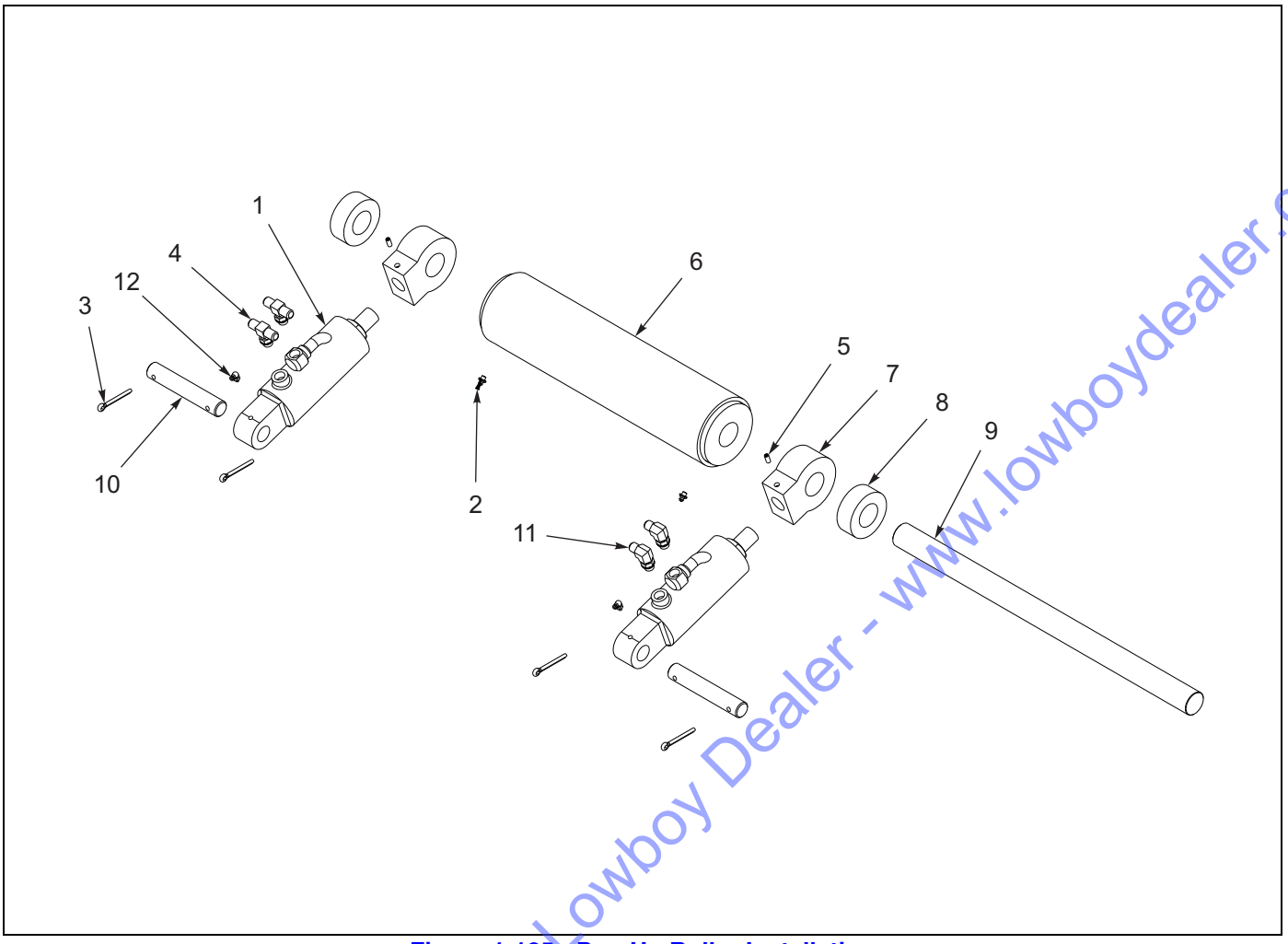


Figure 1-125. Pop-Up Roller Installation

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

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Spare Tire Accessories

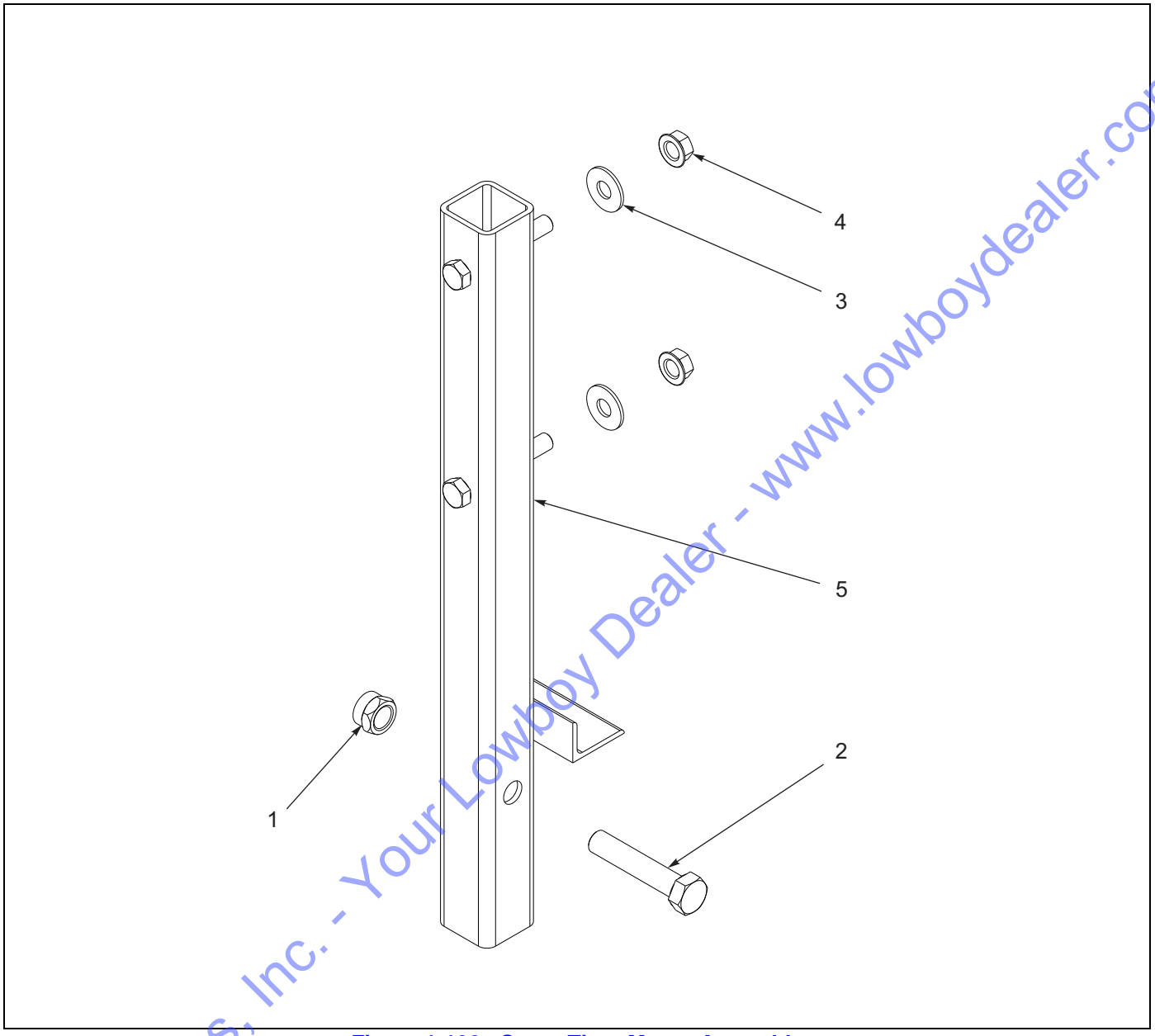
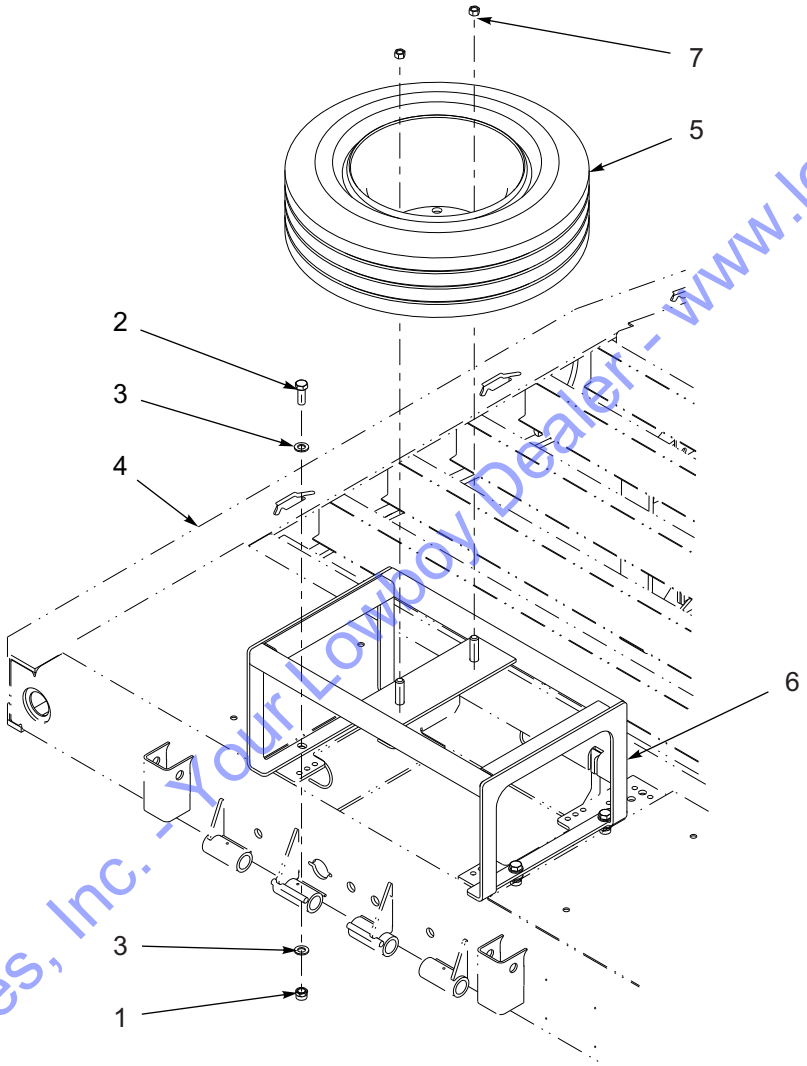


Figure 1-126: Spare Tire - Mount Assembly

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	--
	169639	MOUNT WELDMENT, SPARE TIRE, 255	--	1

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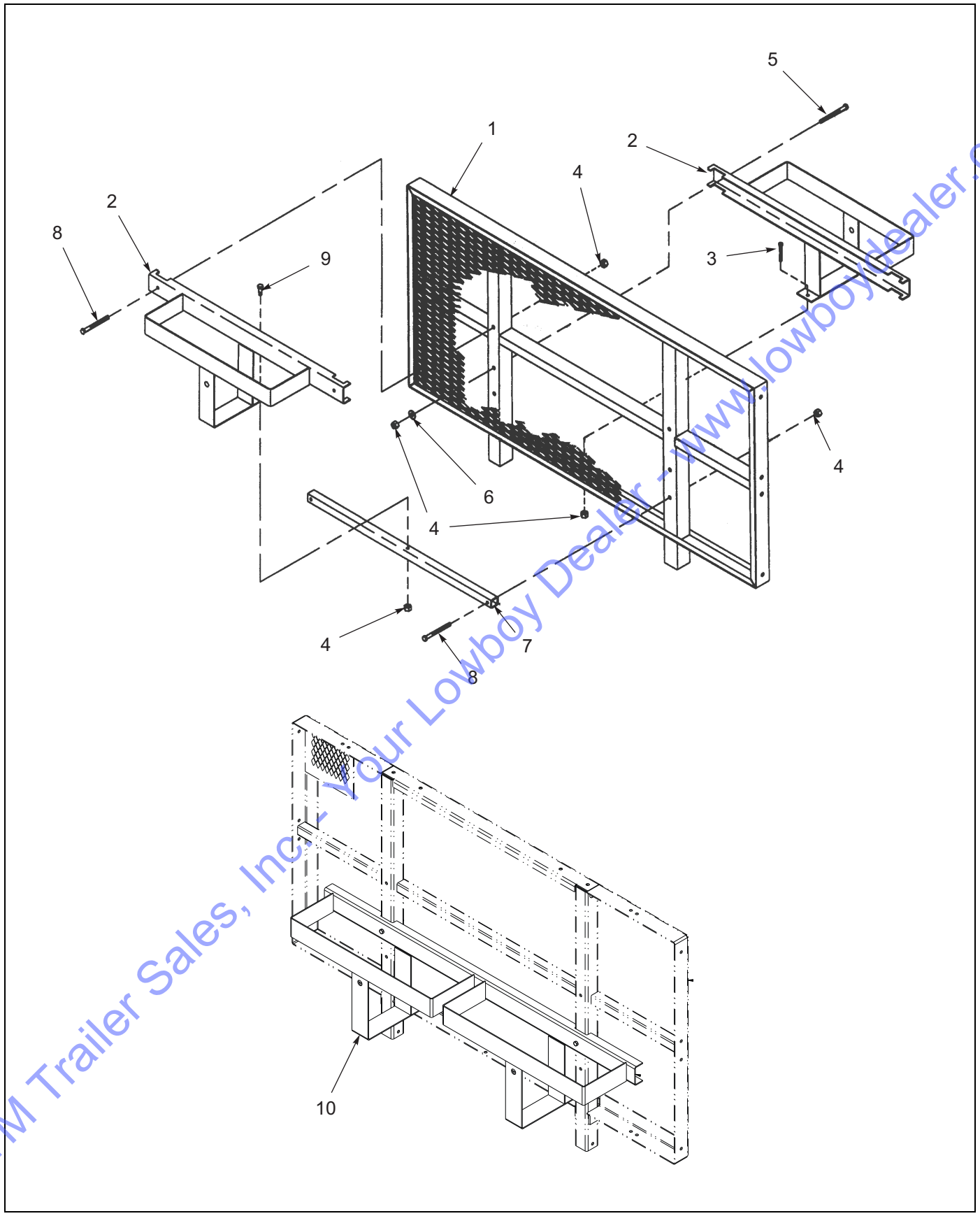
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Figure 1-127: Spare Tire Mount Assembly - Horizontal

Spare Tire Mount Assembly - Horizontal

ITEM	PART NO.	DESCRIPTION	QTY.
	163790	HORIZONTAL SPARE TIRE MOUNT ASSEMBLY	
1	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
2	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
3	1-861-010032-20	WASHER, FLAT, 3/4N	2
4	-----	GOOSENECK WELDMENT	REF
5	-----	TIRE ASSEMBLY	REF
6	163791	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1
7	179933	NUT, HEX M22 X 1.5	2

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Figure 1-128: Spare Tire Carrier

Spare Tire Carrier

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

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Upper Deck - Options

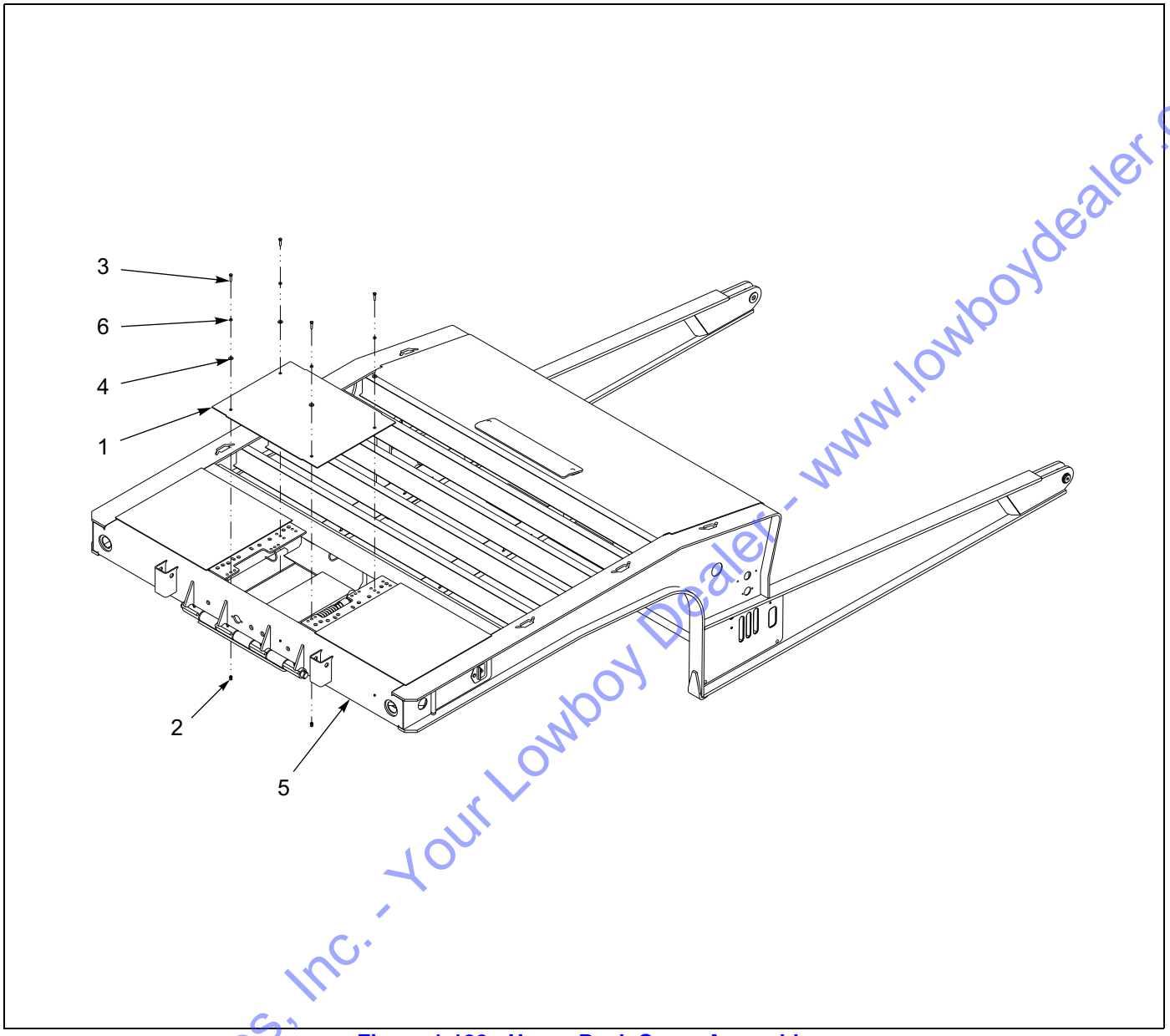


Figure 1-129: Upper Deck Cover Assembly

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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	130552	FRAME ASSEMBLY, GOOSENECK	REF
6	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
7	1-007-010025	PLUG, O-RING BOSS 3/4-16 **(NOT SHOWN)**	1

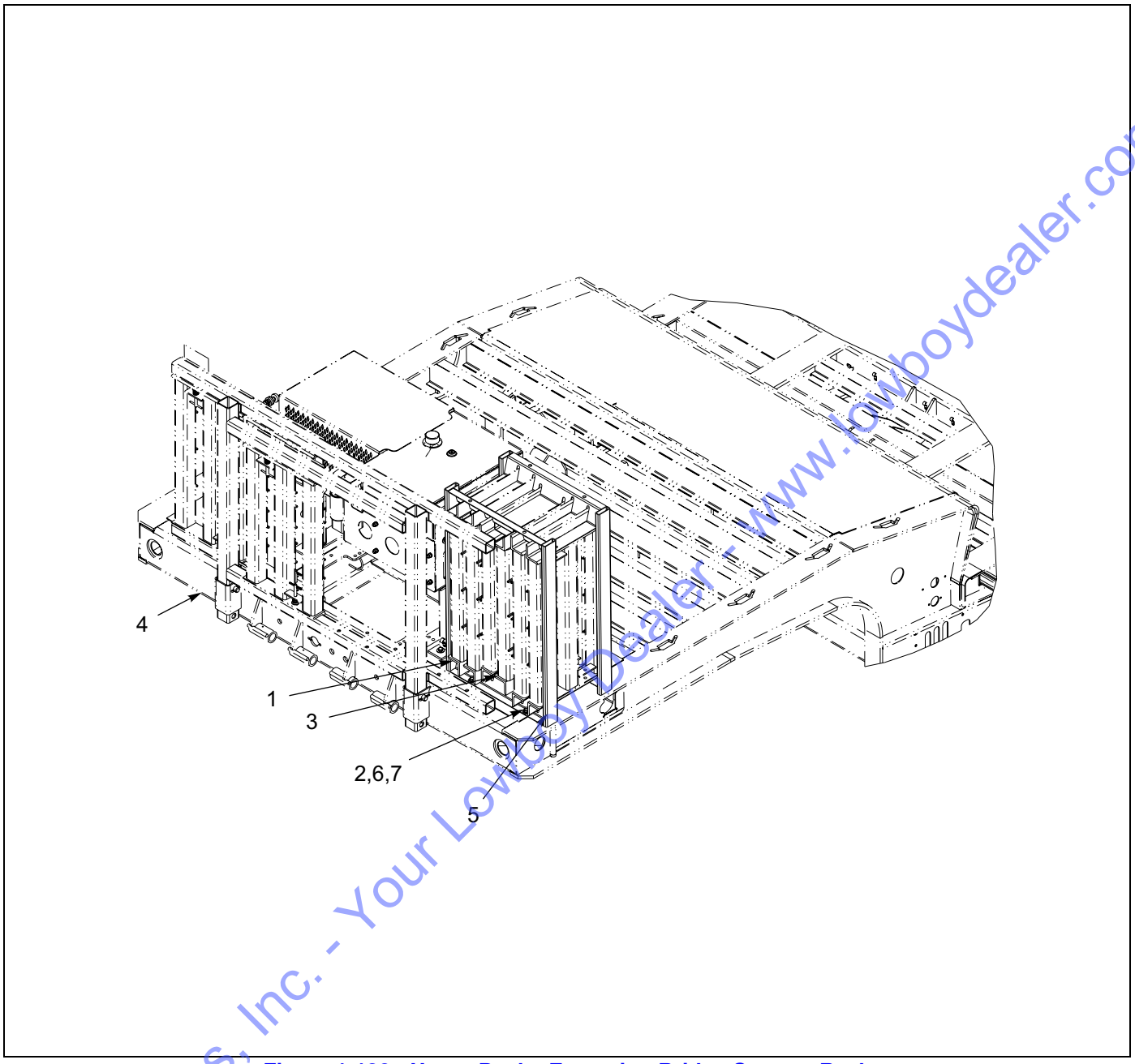


Figure 1-130: Upper Deck - Extension Bridge Storage Rack

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 **(SEE PAGE 1-195)**	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

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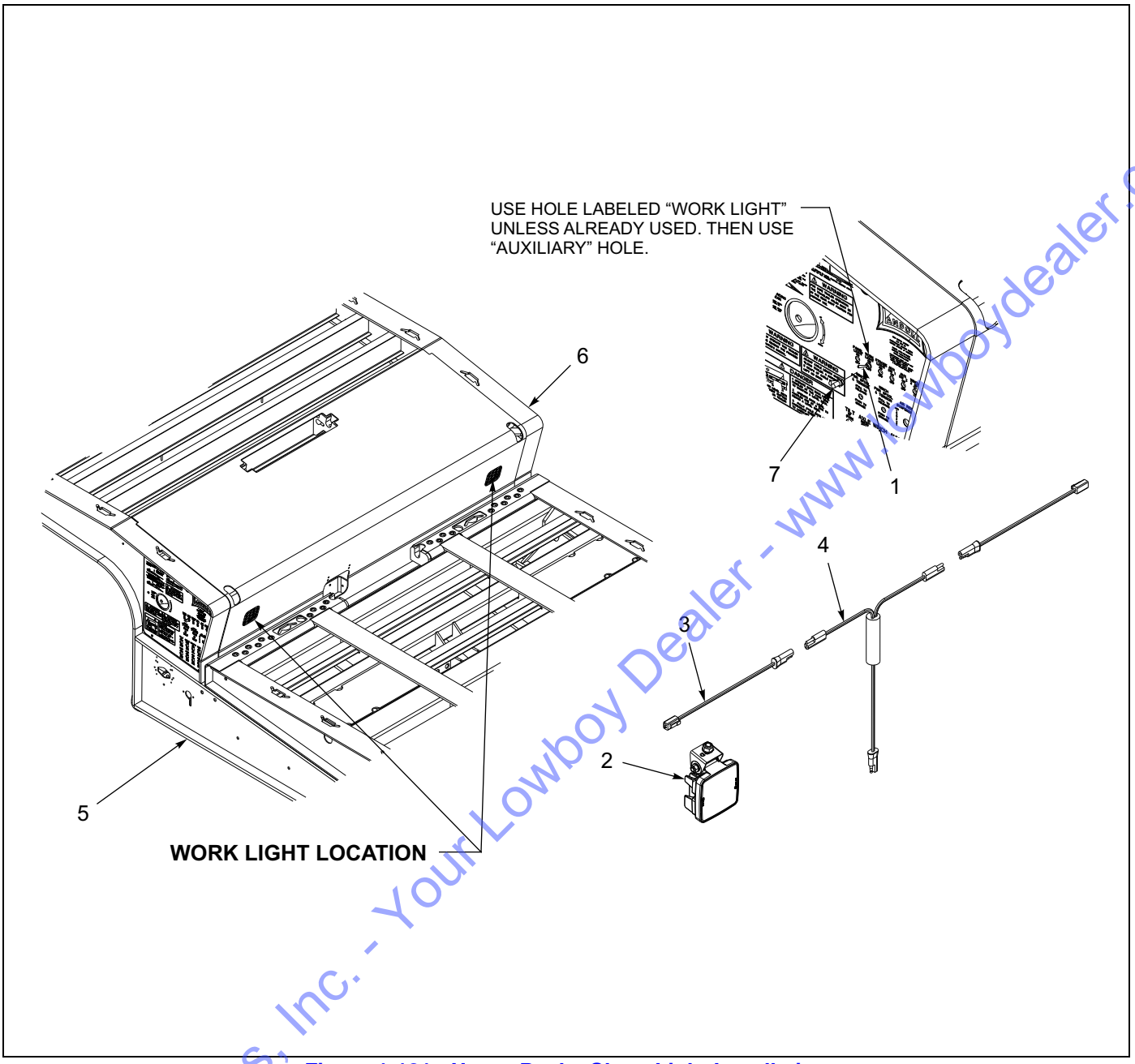


Figure 1-131: Upper Deck - Slope Light Installation

Upper Deck - Slope Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	191817	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	191816	FRAME MOD, 400 U/D SLOPE LIGHTS	1
7	81264	RUBBER BOOT FOR ELECT SWITCH	1

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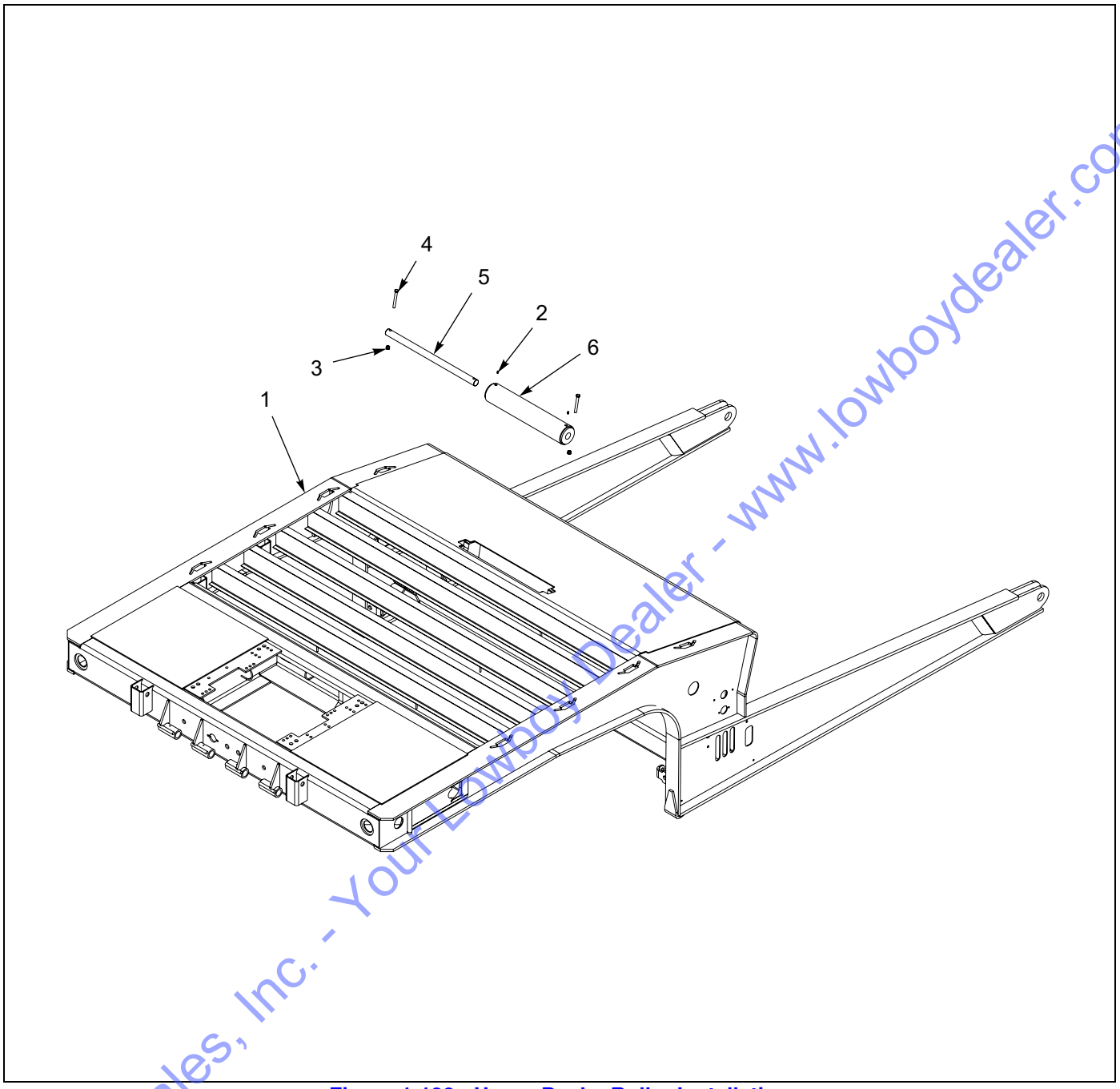


Figure 1-132: Upper Deck - Roller Installation

Upper Deck - Roller Installation

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

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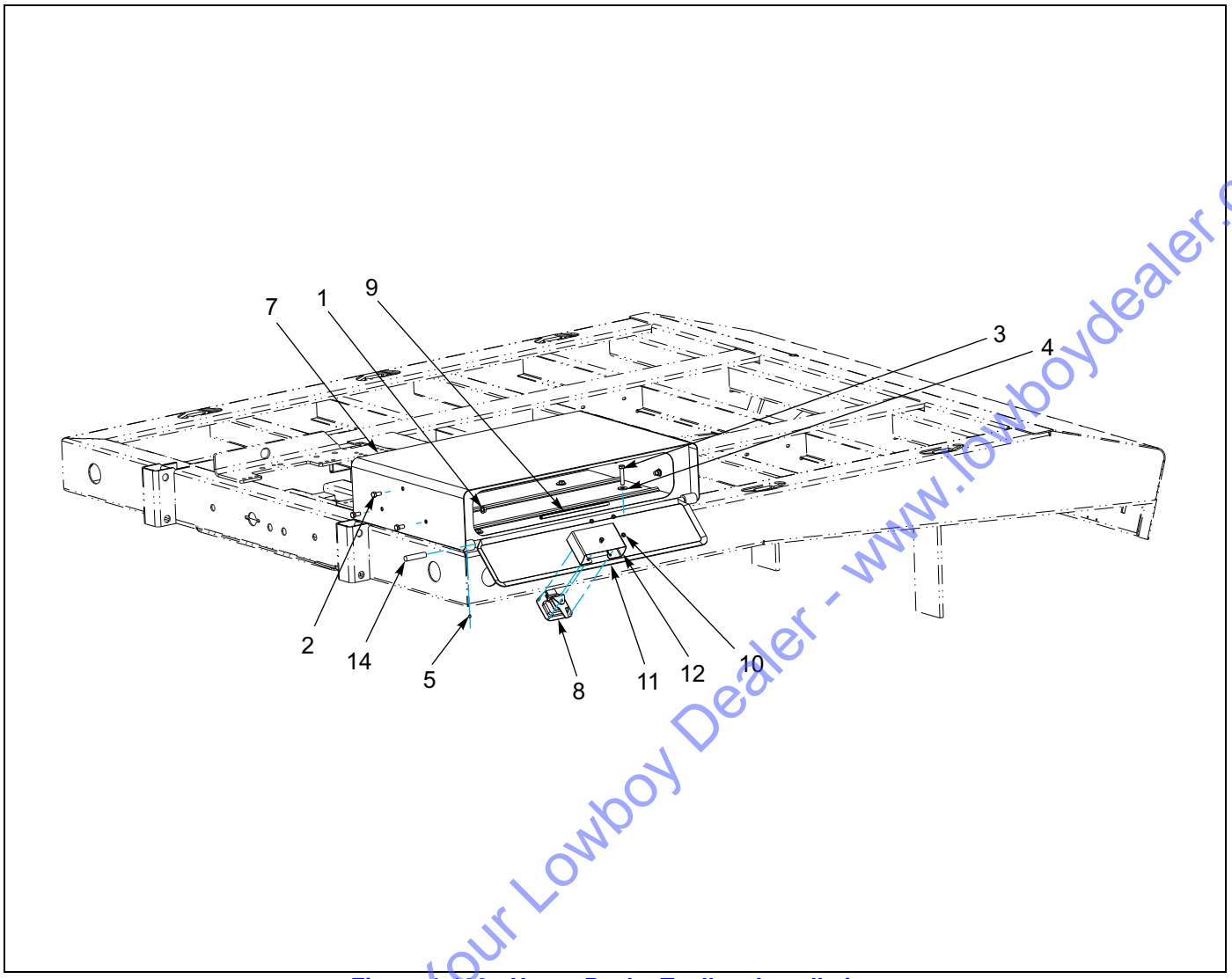


Figure 1-133: Upper Deck - Toolbox Installation

Upper Deck- Toolbox Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	125399	UPPER DECK TOOLBOX INSTALLATION	
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	10
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	6
2	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	-----	GOOSENECK WELDMENT	REF
7	114808	TOOLBOX WELDMENT	1
8	114814	LATCH, FOLDING T LOCKABLE	1
9	114815	SEAL SPONGE RUBBER TRIM	7
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX	1
12	153420	TOOLBOX LATCH SHIELD	1
14	RPRB59004X3H	BAR ROUND, 3/4DIA X 3-1/2 NYLATRON	2

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Winches - Options

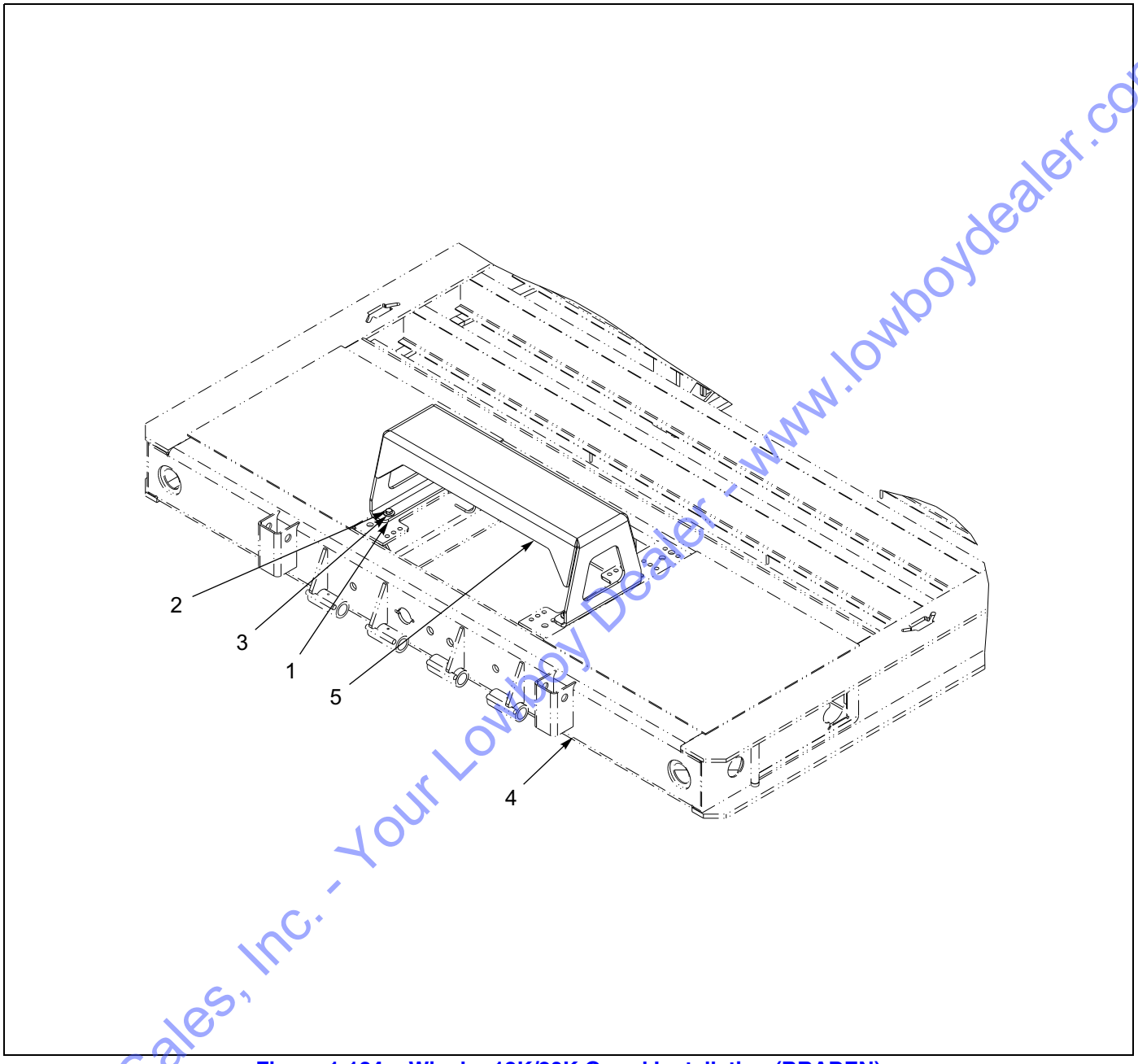


Figure 1-134: Winch - 12K/20K Guard Installation (BRADEN)

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	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	8
4	-----	GOOSENECK WELDMENT	REF
5	145599	GUARD, WINCH 12/20K BRADEN	1

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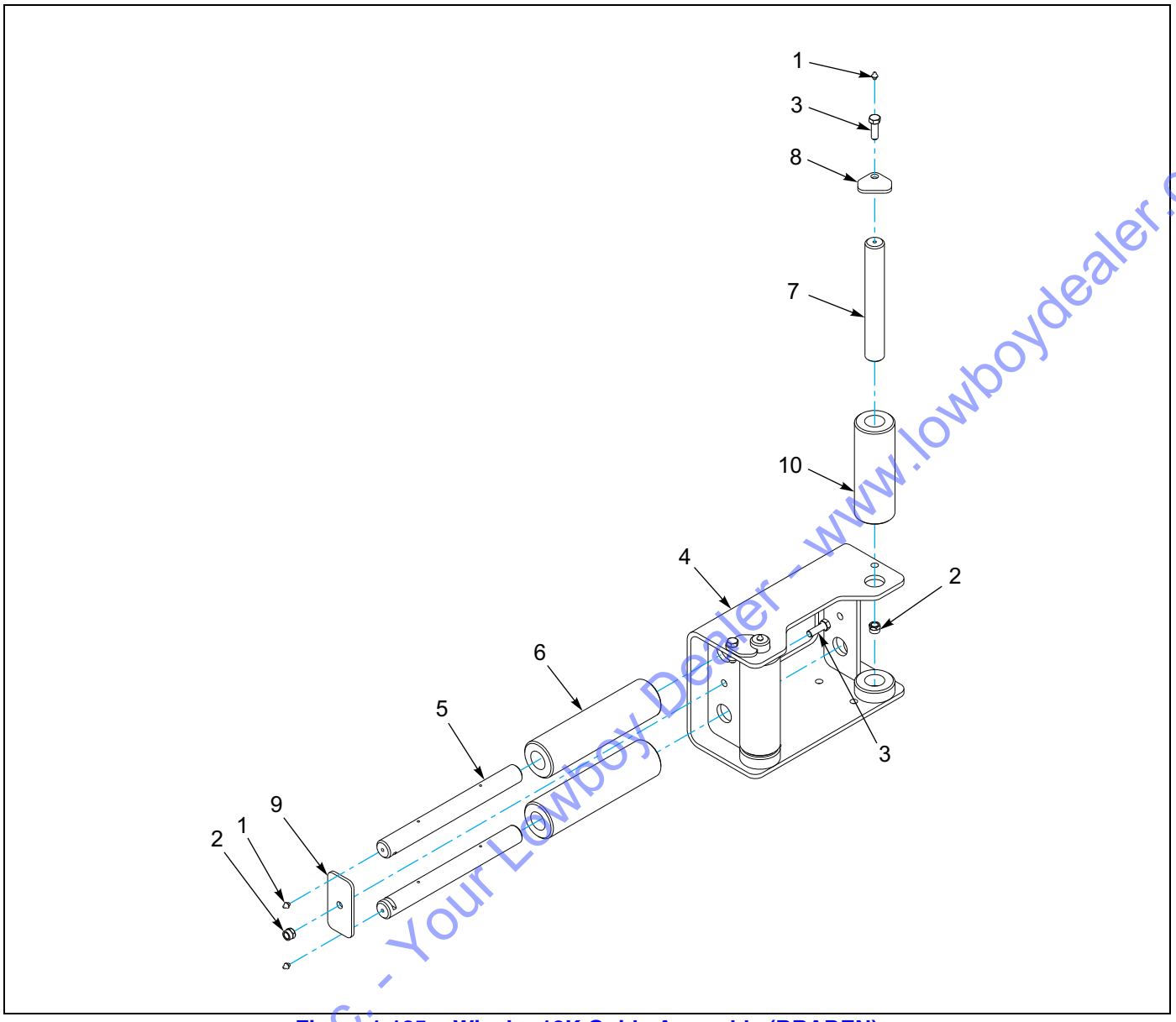


Figure 1-135: Winch - 12K Guide Assembly (BRADEN)

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

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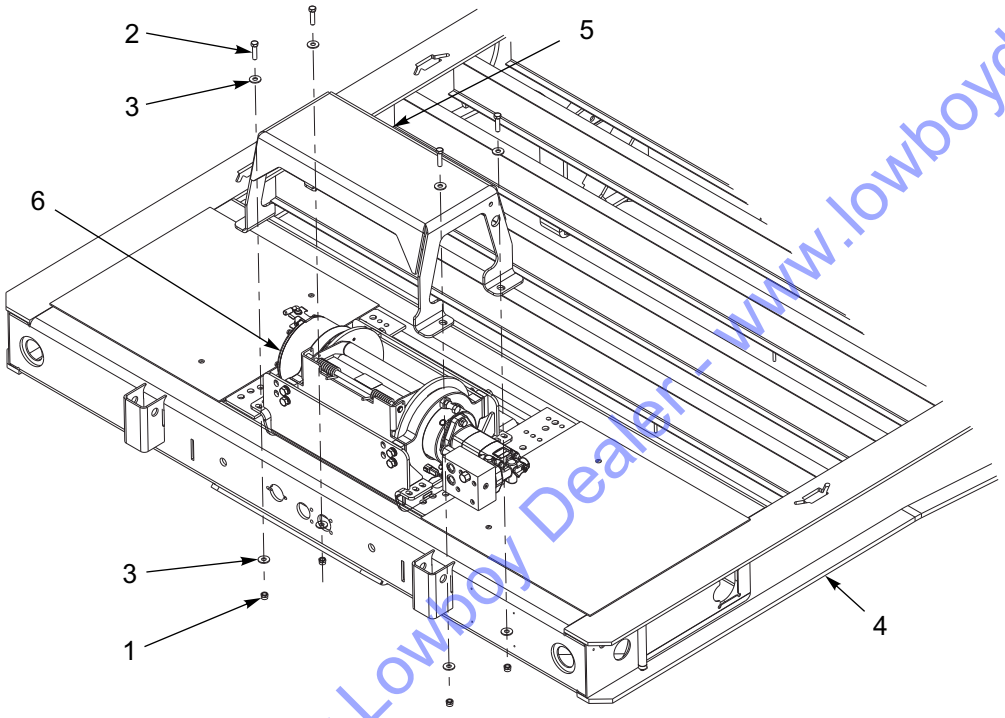


Figure 1-136: Winch - 20K/30K Guard Installation (WARN)

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	-----	FRAME WELDMENT	REF
5	171167	GUARD, WINCH 20K/30K WARN	1
6	-----	WINCH ASSEMBLY, WARN	REF

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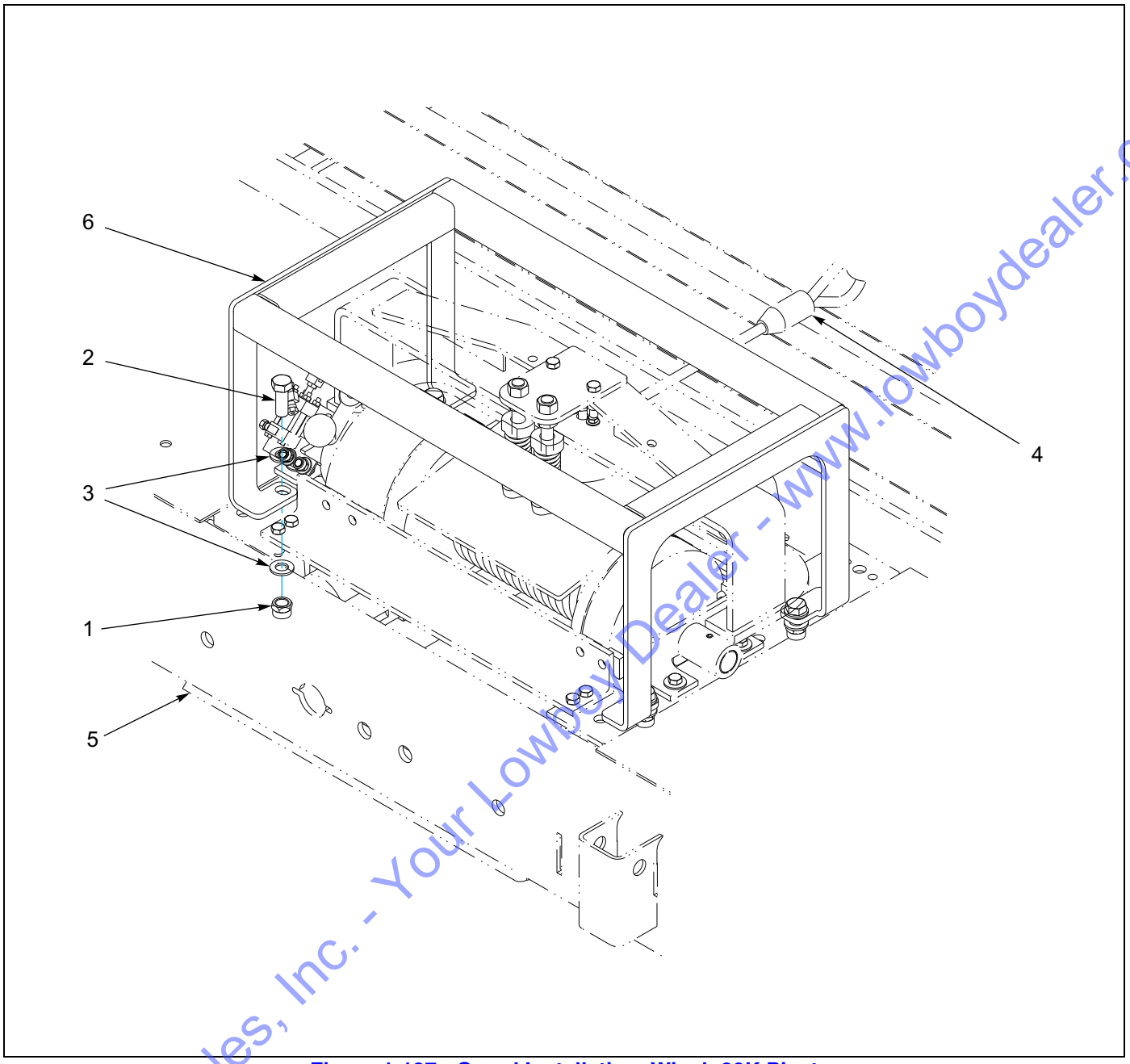


Figure 1-137: Guard Installation, Winch 20K Pivot

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	-----	GOOSENECK WELDMENT	REF
6	163770	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1

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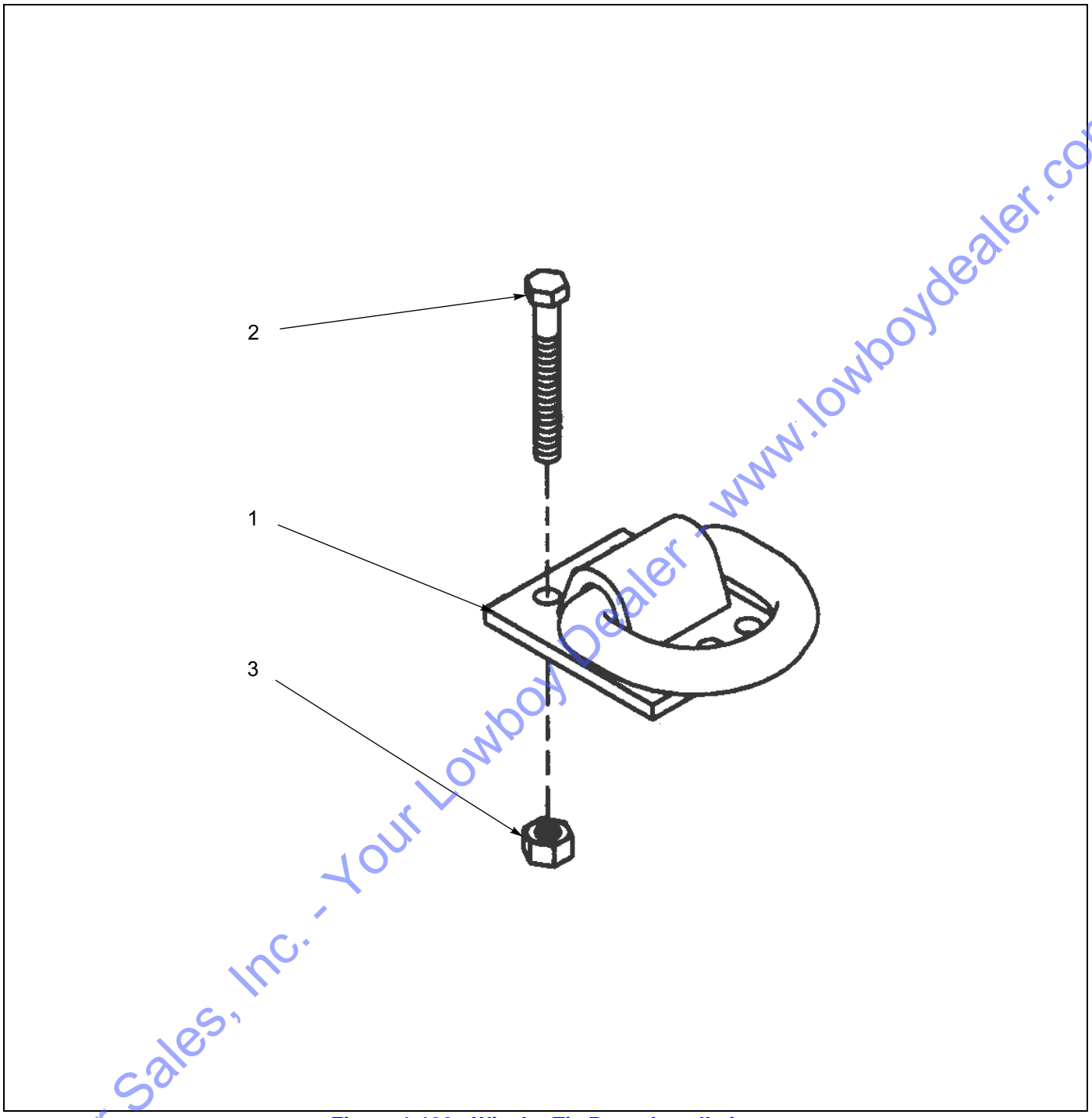
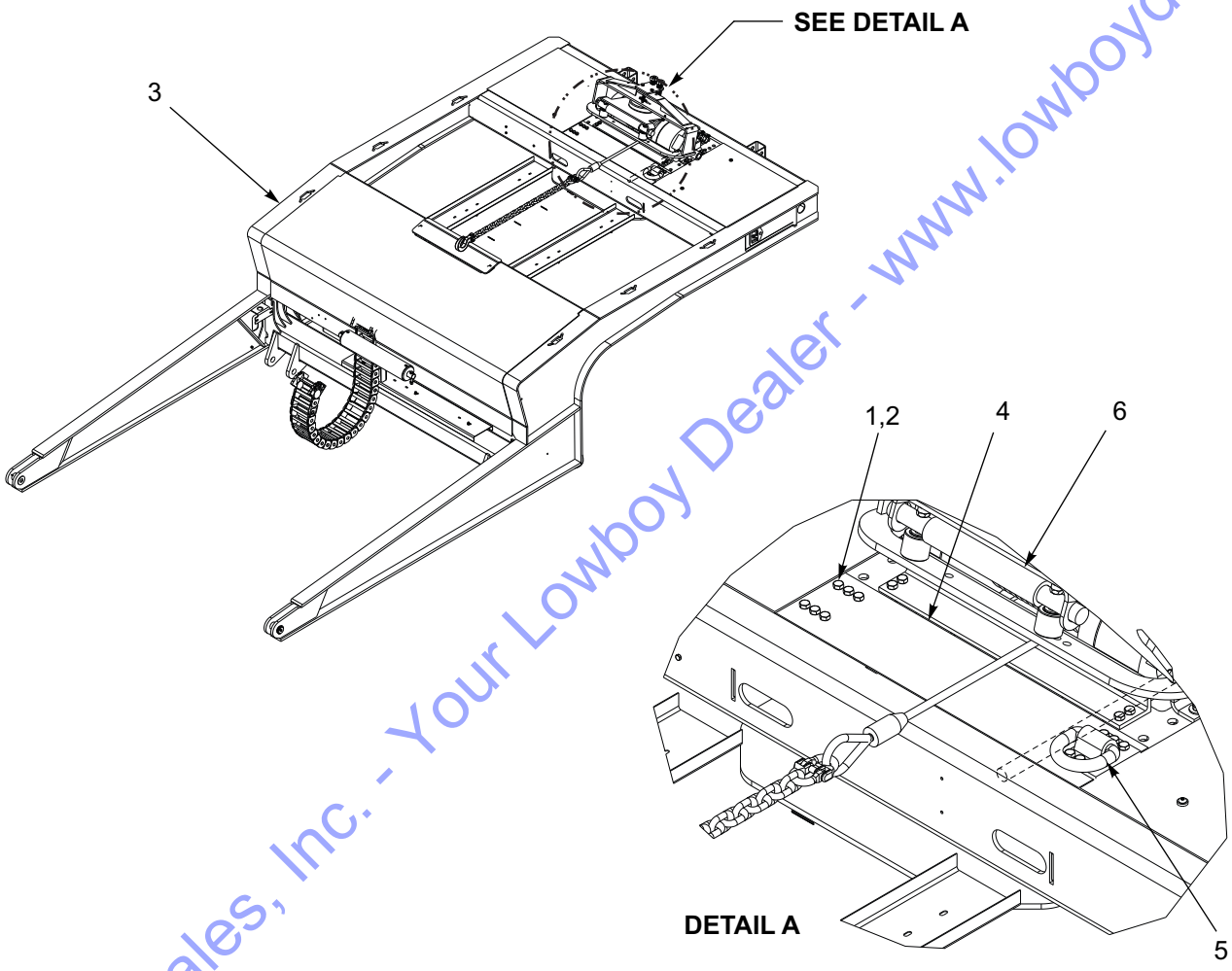


Figure 1-138: Winch - Tie Down Installation

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

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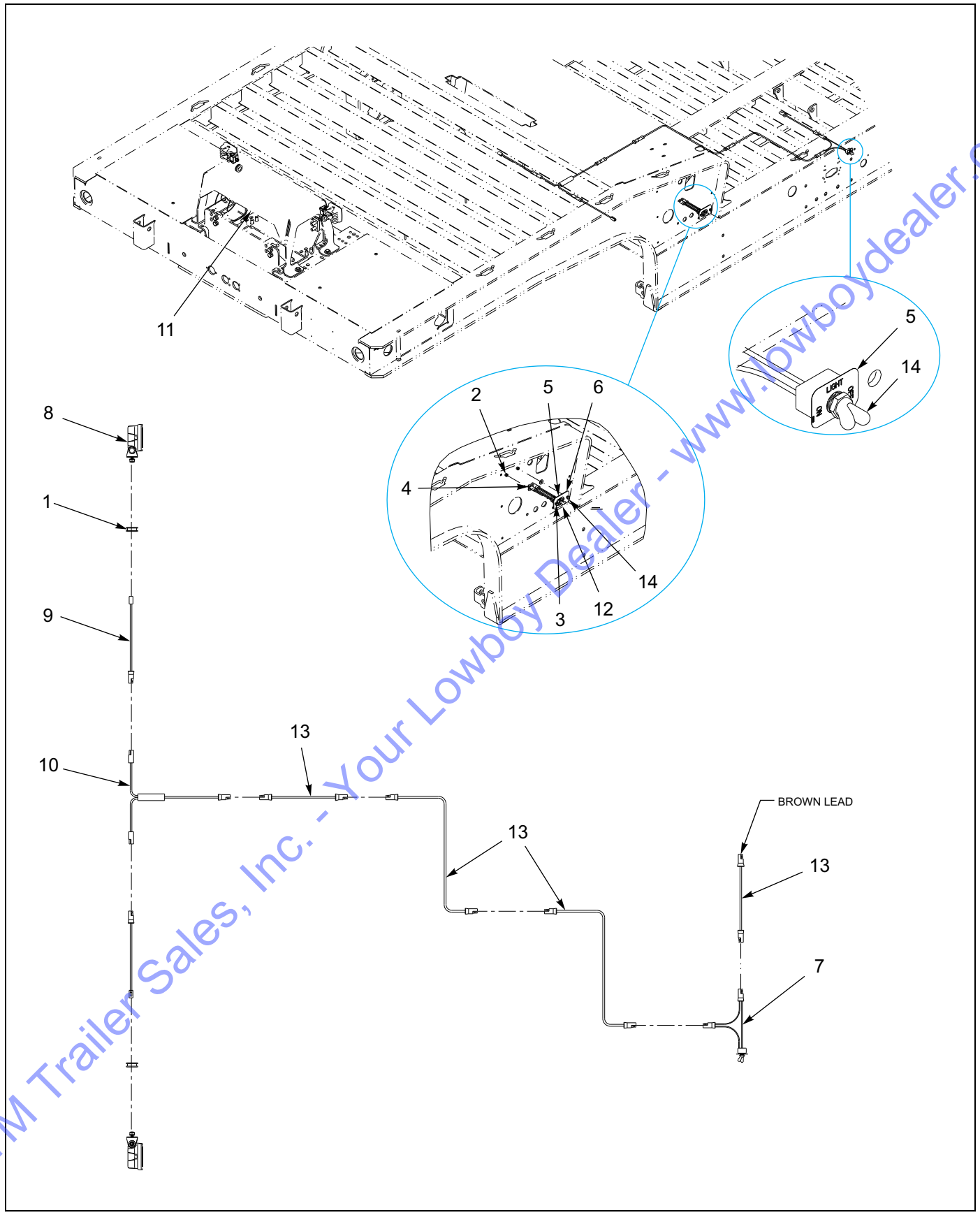
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Figure 1-139: Winch Trim Plate Installation

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	-----	FRAME ASSEMBLY, G/N	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

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Figure 1-140: Winch - Work Light Installation

Winch - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	171168	WINCH WORK LIGHT INSTALLATION	
1	1-343-010011	GROMMET	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
4	1-861-010032-09	WASHER, FLAT 5/16W	2
5	130116	DECAL, ON/OFF LIGHT	2
6	137987	MOUNT, ELECTRICAL SWITCH	1
7	150117	TOGGLE SWITCH SEALED SPST	1
8	163996	LIGHT LED WHITE FLOOD LAMP	2
9	164052	HARNESS, 60” BRANCH WORK LIGHT	2
10	169853	HARNESS, JUMPER T-POWER	1
11	171166	12/20K WINCH GUARD INSTALLATION **(SEE PAGE 1-219)**	REF
12	174043	DECAL, WINCH HI/LO	1
13	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4
14	81264	RUBBER BOOT FOR ELECT SWITCH	1

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Misc Options

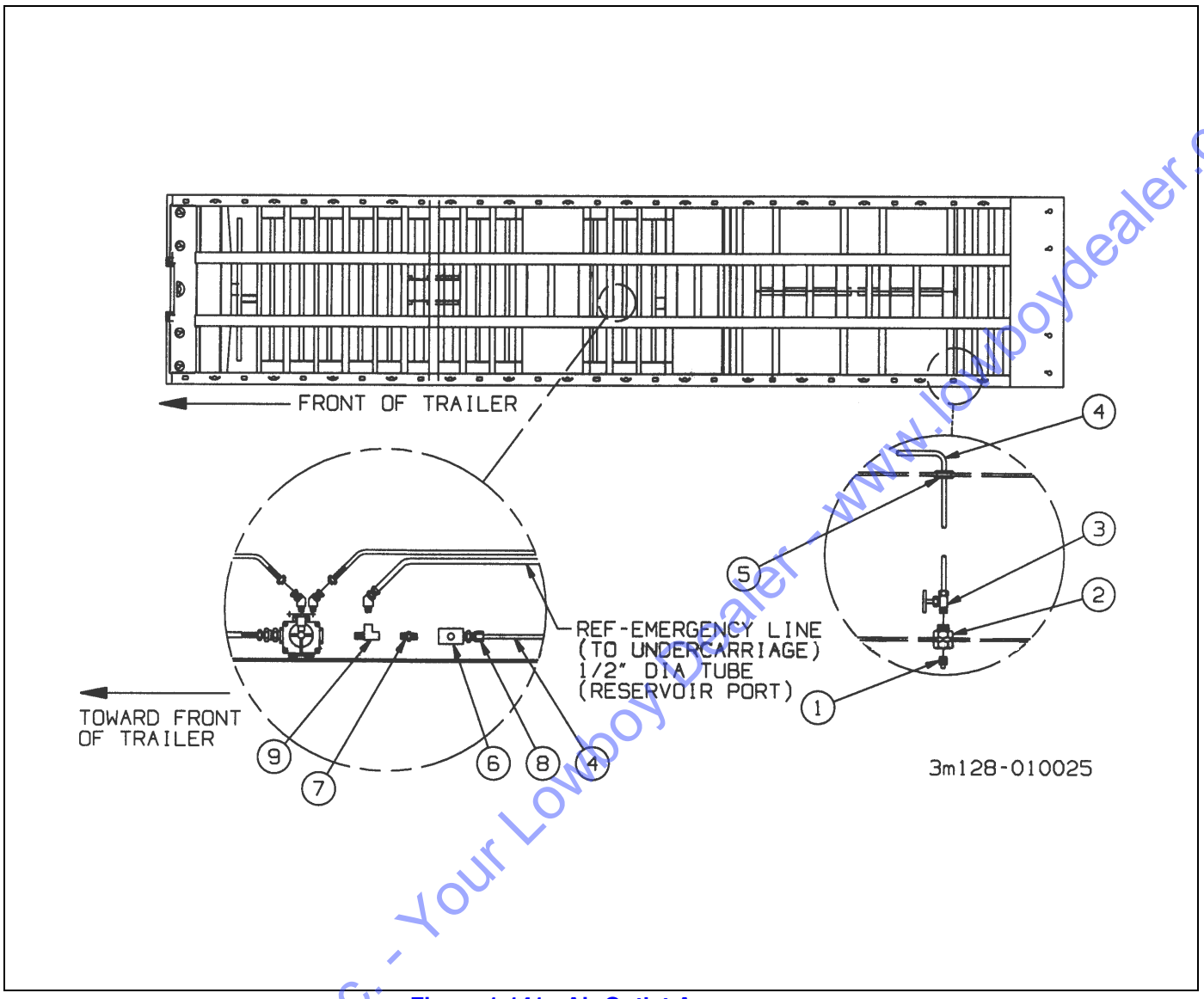


Figure 1-141: Air Outlet Accessory

Air Outlet Accessory

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010025	AIR OUTLET ACCESSORY	
1	1-560-010002-02	PLUG PIPE	1
2	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
3	A6760S	SHUT OFF VALVE	1
4	1-833-010002	TUBING NYLON	20
5	1-343-010007	GROMMET	1
6	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1
7	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
8	1-297-010007-11	FITTING, AIR	1
9	1-297-010018-04	FITTING, AIR BR TEE	1

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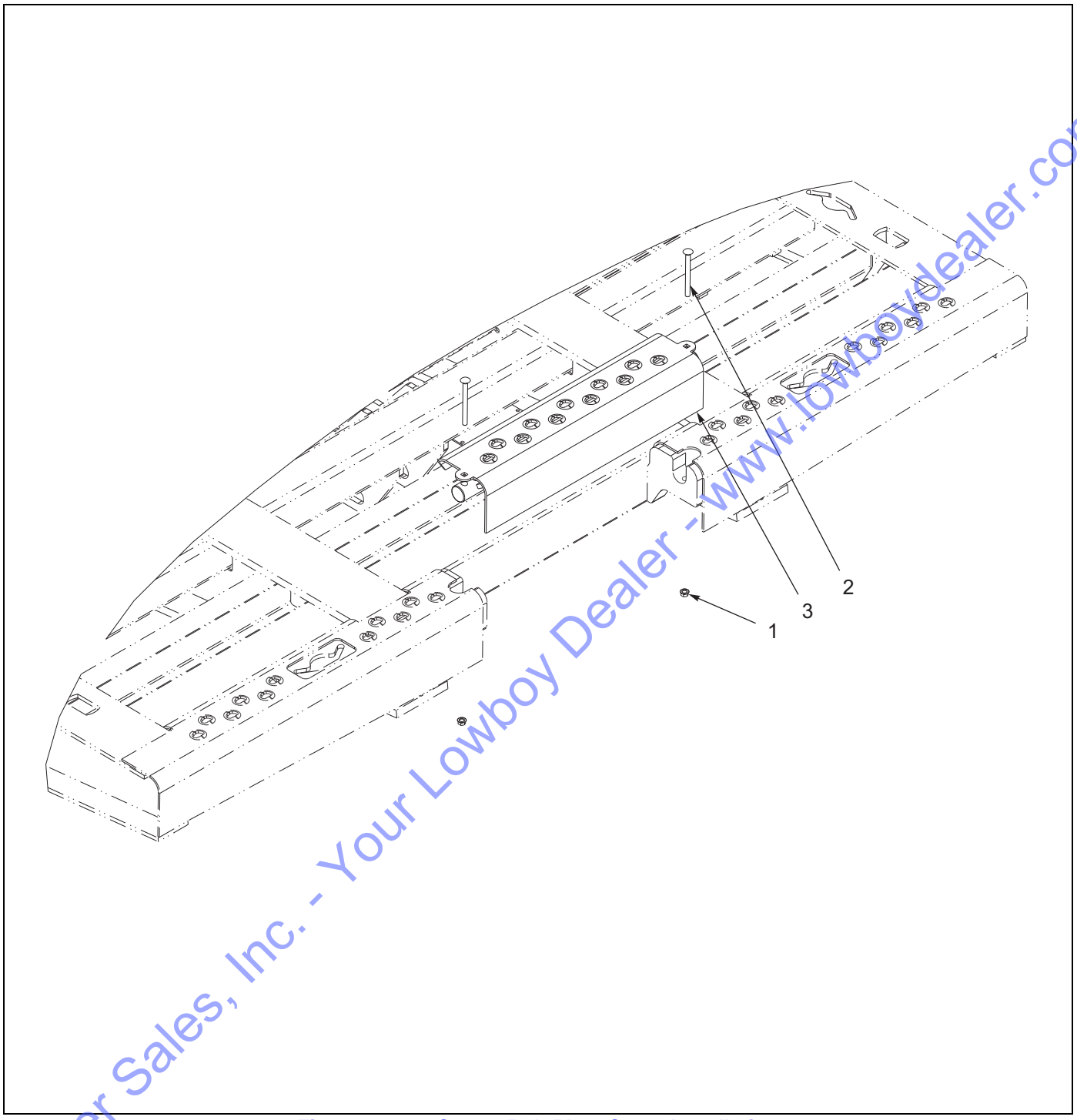


Figure 1-142: Center Rub Plate Cover Installation

Center Rub Plate Cover Installation

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

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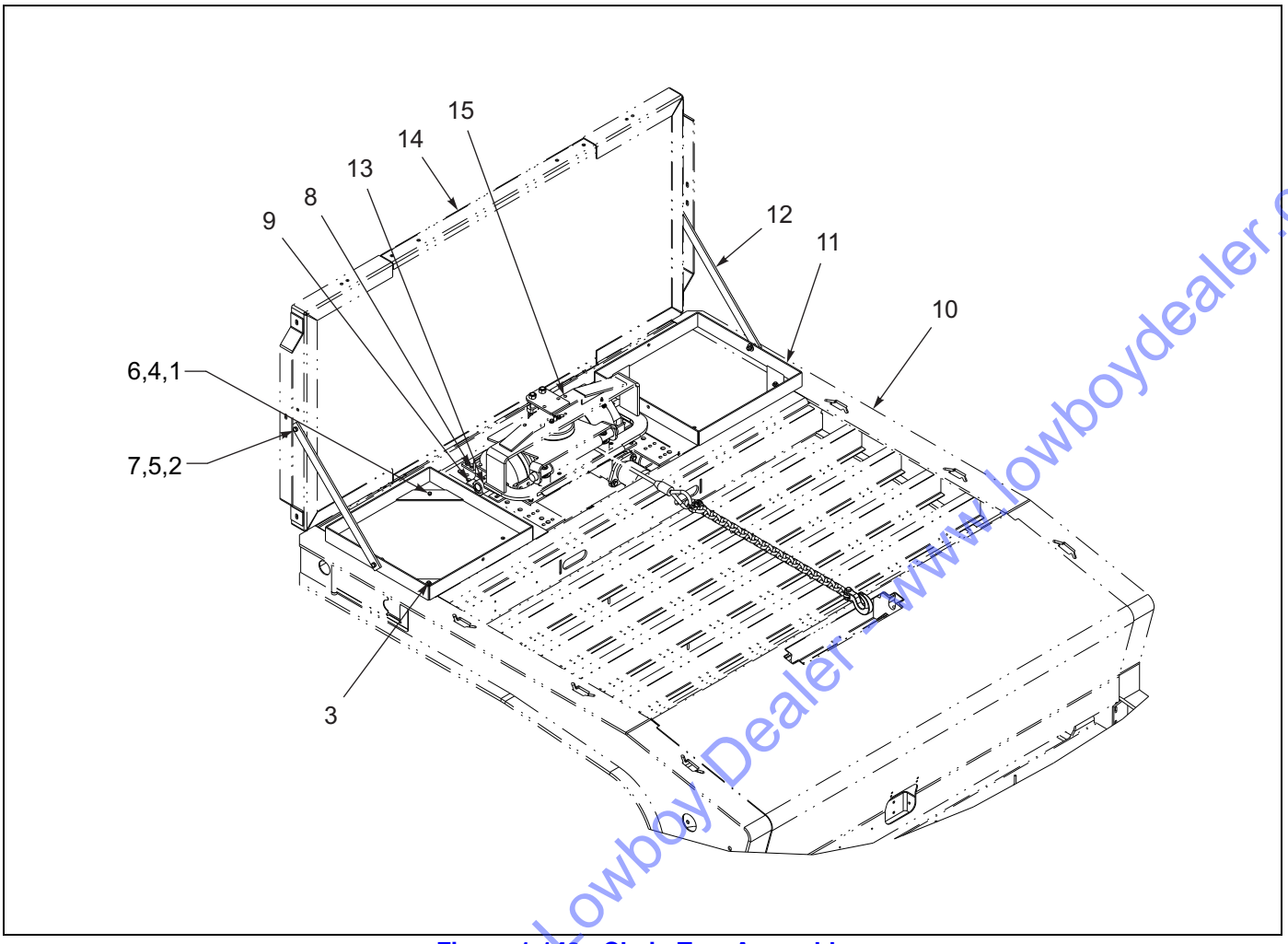


Figure 1-143: Chain Tray Assembly

Chain Tray Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	142534	CHAIN TRAY ASSEMBLY	
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
4	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	2
5	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
6	1-861-010032-11	WASHER, FLAT 3/8W	8
7	1-861-010032-15	WASHER, FLAT 1/2W	4
8	119621	ANCHOR, CABLE GUIDE WINCH	REF
9	119622	PIN, WINCH ROLLER PIVOT	REF
10	-----	GOOSENECK WELDMENT	REF
11	142532	CHAIN TRAY WELDMENT, UPPER DECK	2
12	160103	BRACE, BULKHEAD TO CHAIN TRAY	2
13	3-125-010464	BRACKET WELDMENT, WINCH ROLLER	REF
14	-----	BULKHEAD INSTALLATION **(SEE PAGE 1-133)**	REF
15	3-873-010140-01	WINCH INSTALLATION 20K UPPER DECK	REF

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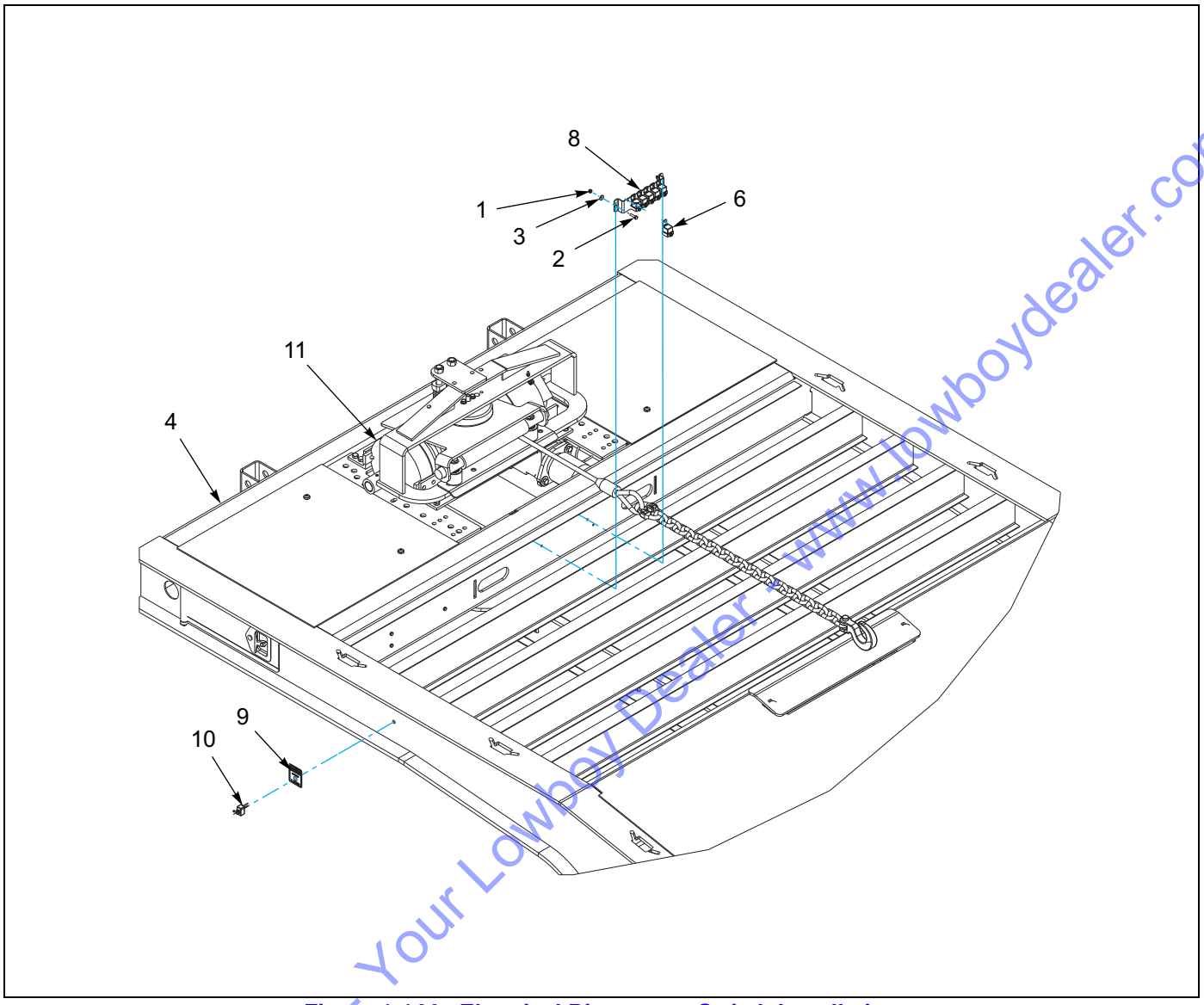


Figure 1-144: Electrical Disconnect Switch Installation

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

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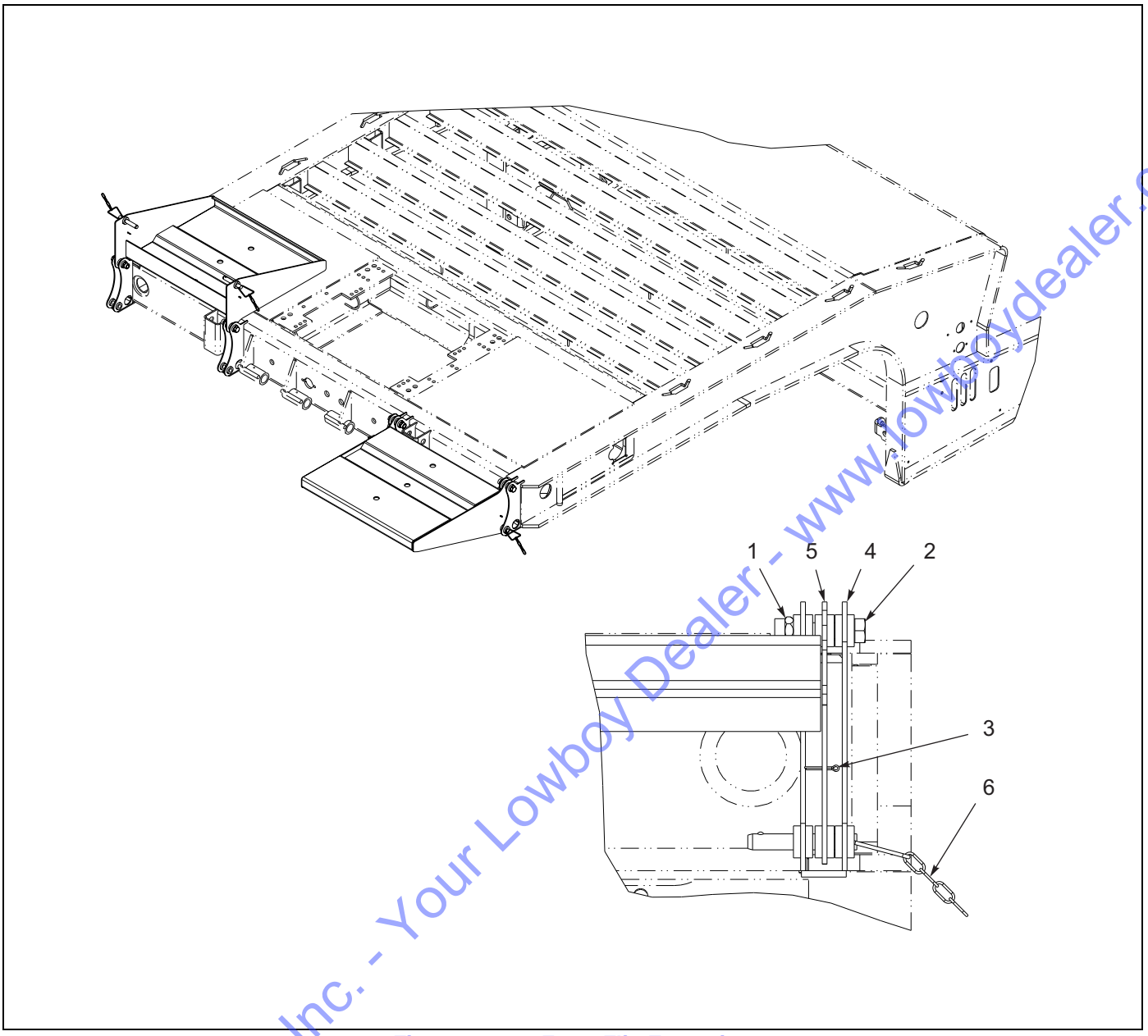


Figure 1-145: Front Flip Extension

Front Flip Extension

ITEM	PART NO.	DESCRIPTION	QTY.	
	130538	FRONT FLIP EXTENSION	*	
	174253	FRONT FLIP EXTENSION, 108		*
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4	4
2	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	4	4
3	101386	PIN, COTTER 1/8 X 1	4	4
4	130537	FRAME MOD., FRONT FLIP	1	1
5	130540	EXTENSION WELDMENT, FRONT FLIP	2	--
	174254	EXTENSION WELDMENT, FRONT FLIP, 108	--	2
6	2-557-010426	PIN, DETENT 5/8 W/ CHAIN	2	2

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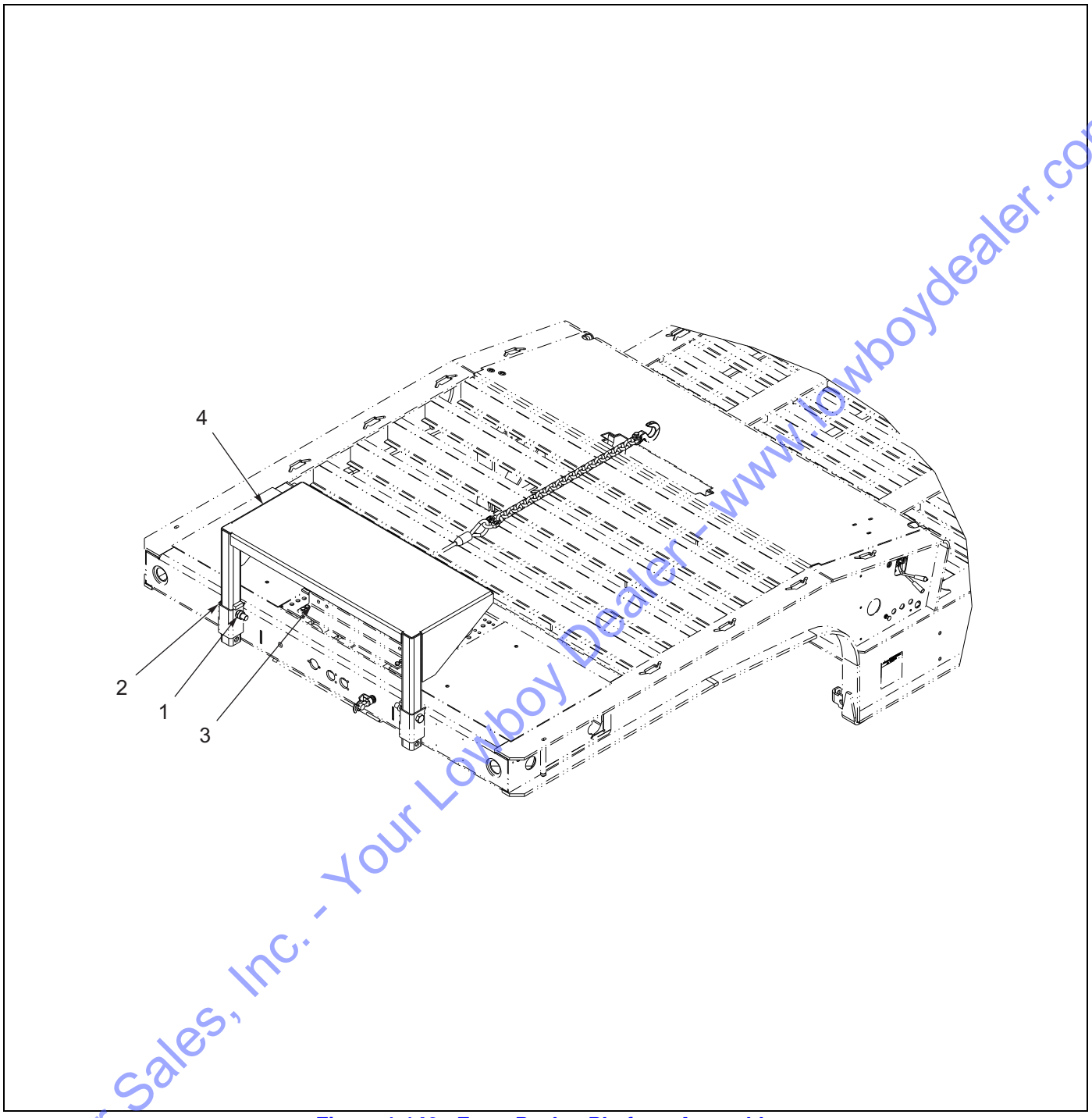


Figure 1-146: Front Pocket Platform Assembly

Front Pocket Platform Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	176377	FRONT POCKET PLATFORM ASSEMBLY	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1
2	1-654-010065-17	SCREW, HEX HEAD CAP 1-8 X 6 GR5	1
3	-----	WINCH INSTALLATION	REF
4	176378	SUPPORT WELDMENT, FRONT PLATFORM	1

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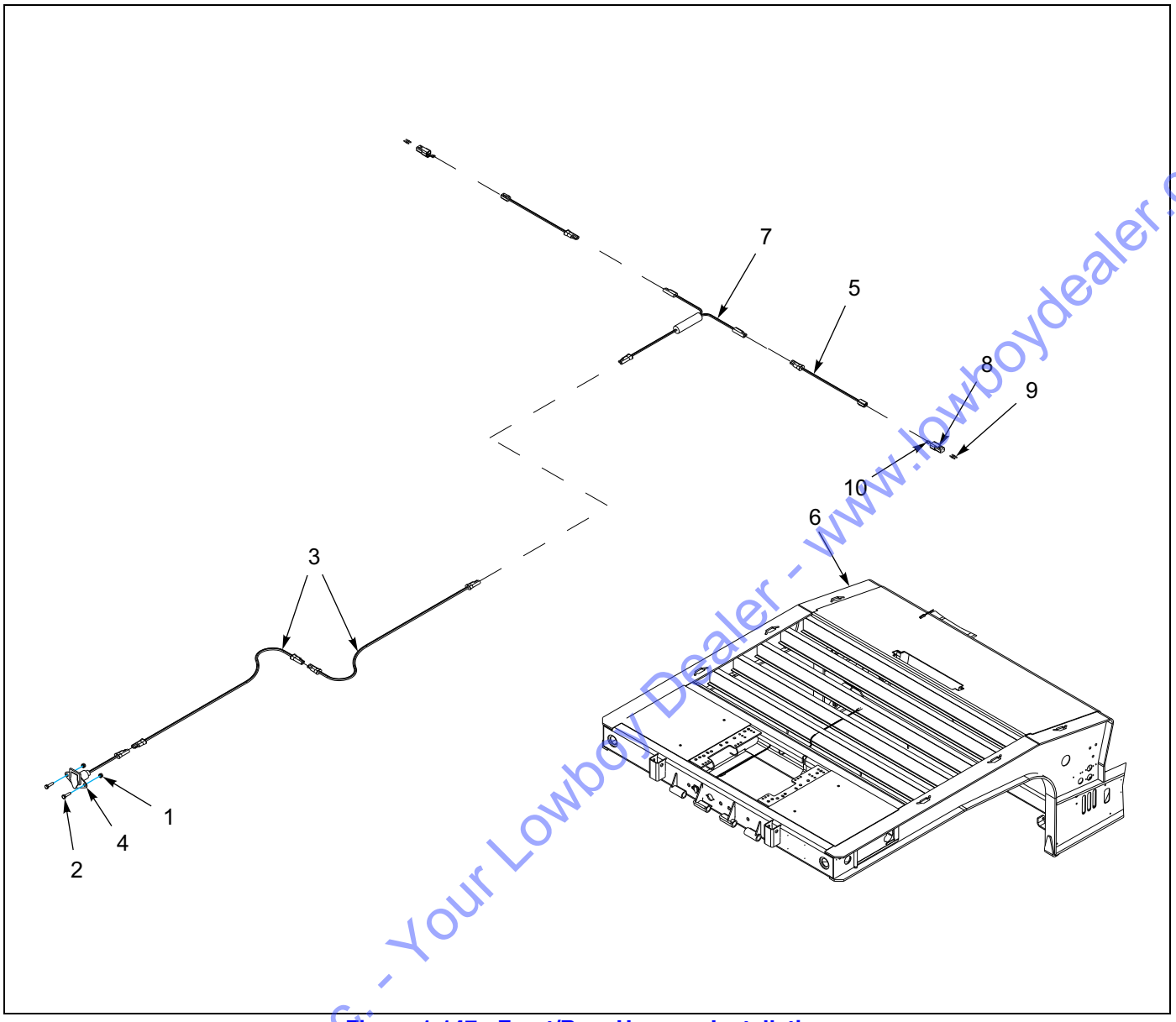


Figure 1-147: Front/Rear Harness Installation

Front/Rear Harness Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	168721	FRONT/REAR HARNESS INSTALLATION	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	1
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
3	150111	HARNESS 300”	1
4	150116	HARNESS/RECEPTACLE ASSEMBLY	1
5	164052	HARNESS, 60” BRANCH WORK LIGHT	2
6	168720	FRAME, MOD 4-POLE RECEPTACLE FT PLT	1
7	169853	HARNESS, JUMPER T-POWER	1
8	622-2967-001	RECEPTACLE, 2 POS **(MALE)**	2
9	622-2967-014	PIN, 14-16 AWG	4
10	622-2967-017	WEDGE, 2 POS RECEPTACLE	2

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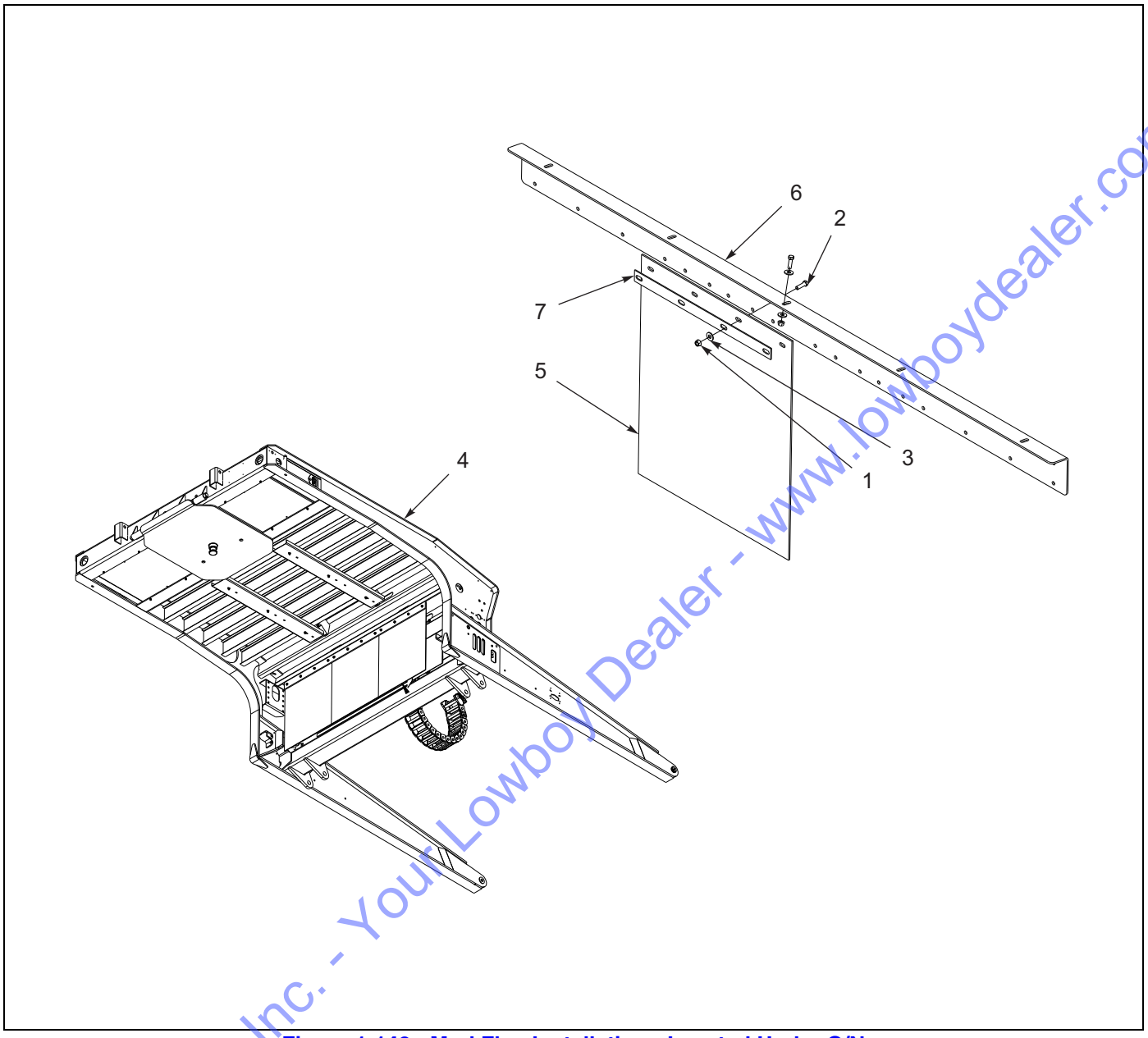
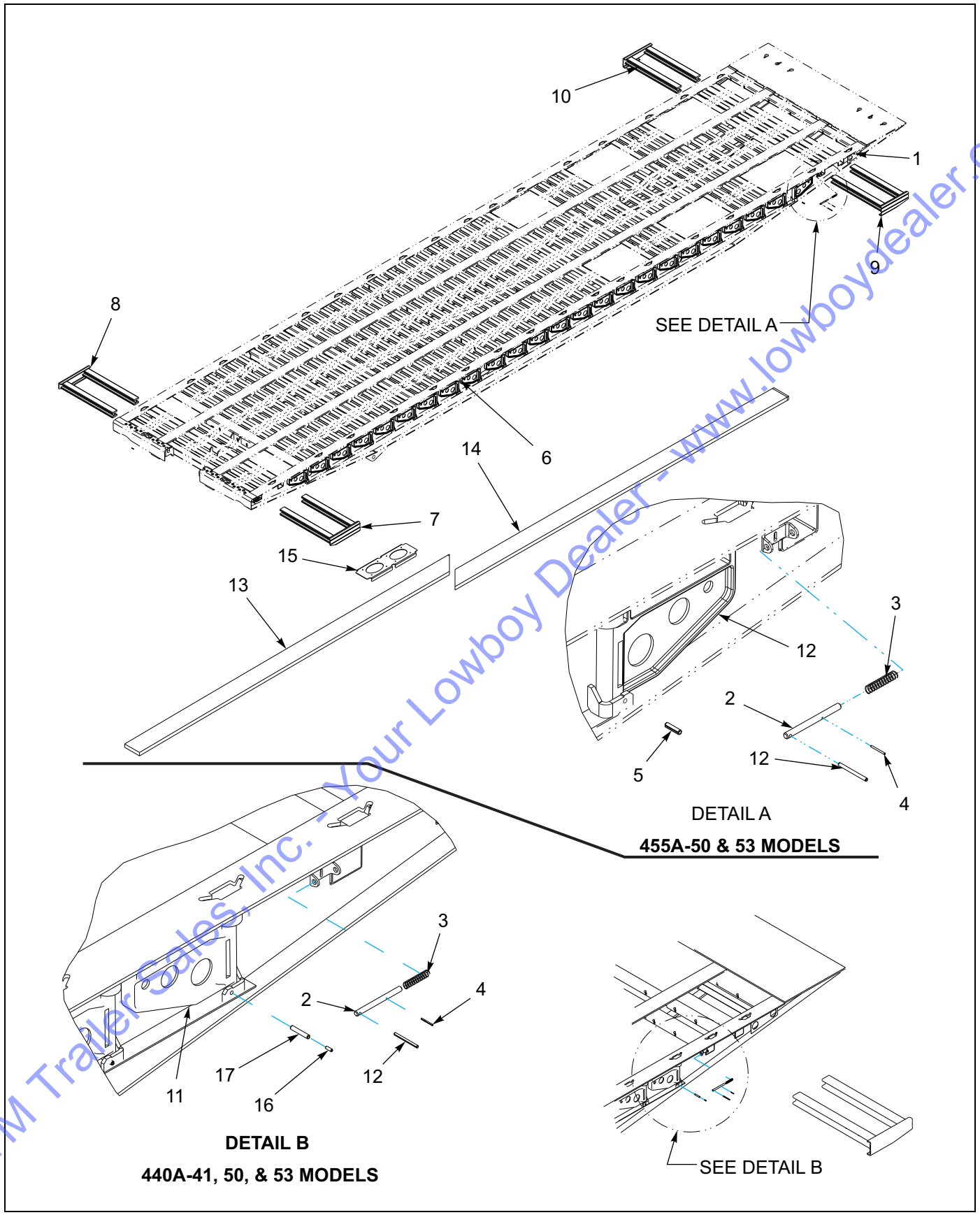


Figure 1-148: Mud Flap Installation - Located Under G/N

Mud Flap Installation - Located Under G/N

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

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Figure 1-149: 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	--

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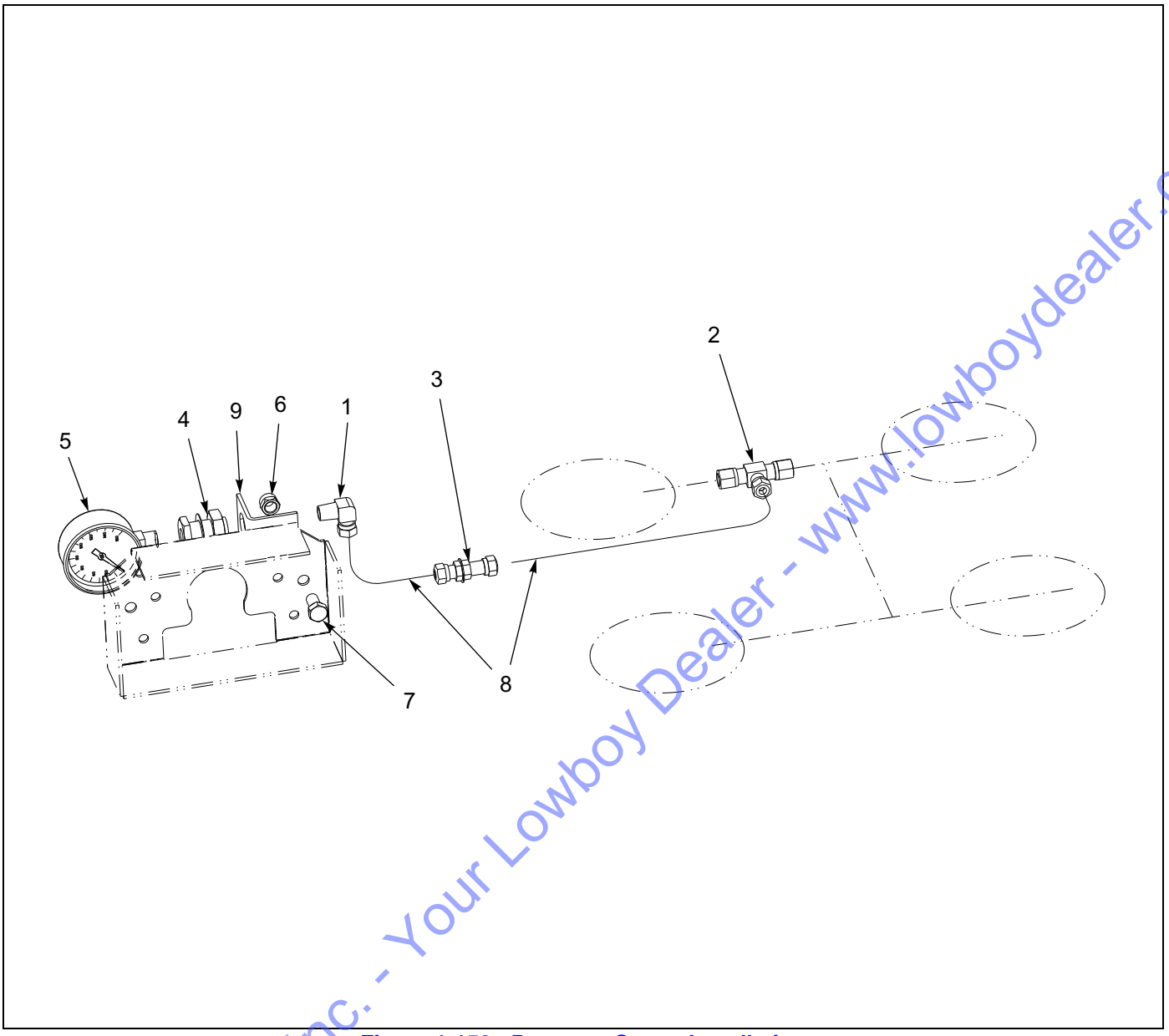


Figure 1-150: Pressure Gauge Installation

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	AR
9	3-120-010445	BRACKET, PRESSURE REGULATOR	1

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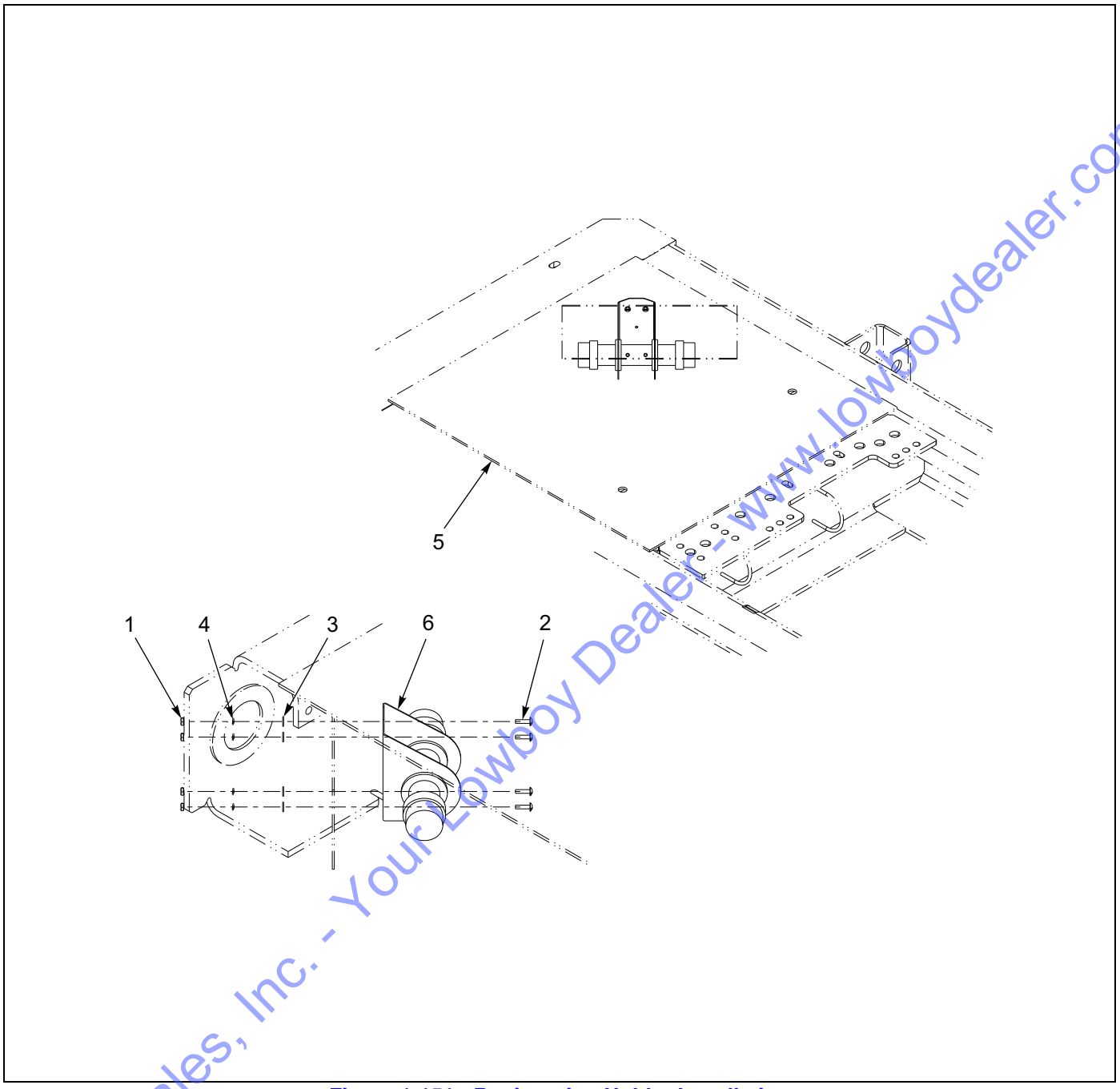


Figure 1-151: Registration Holder Installation

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

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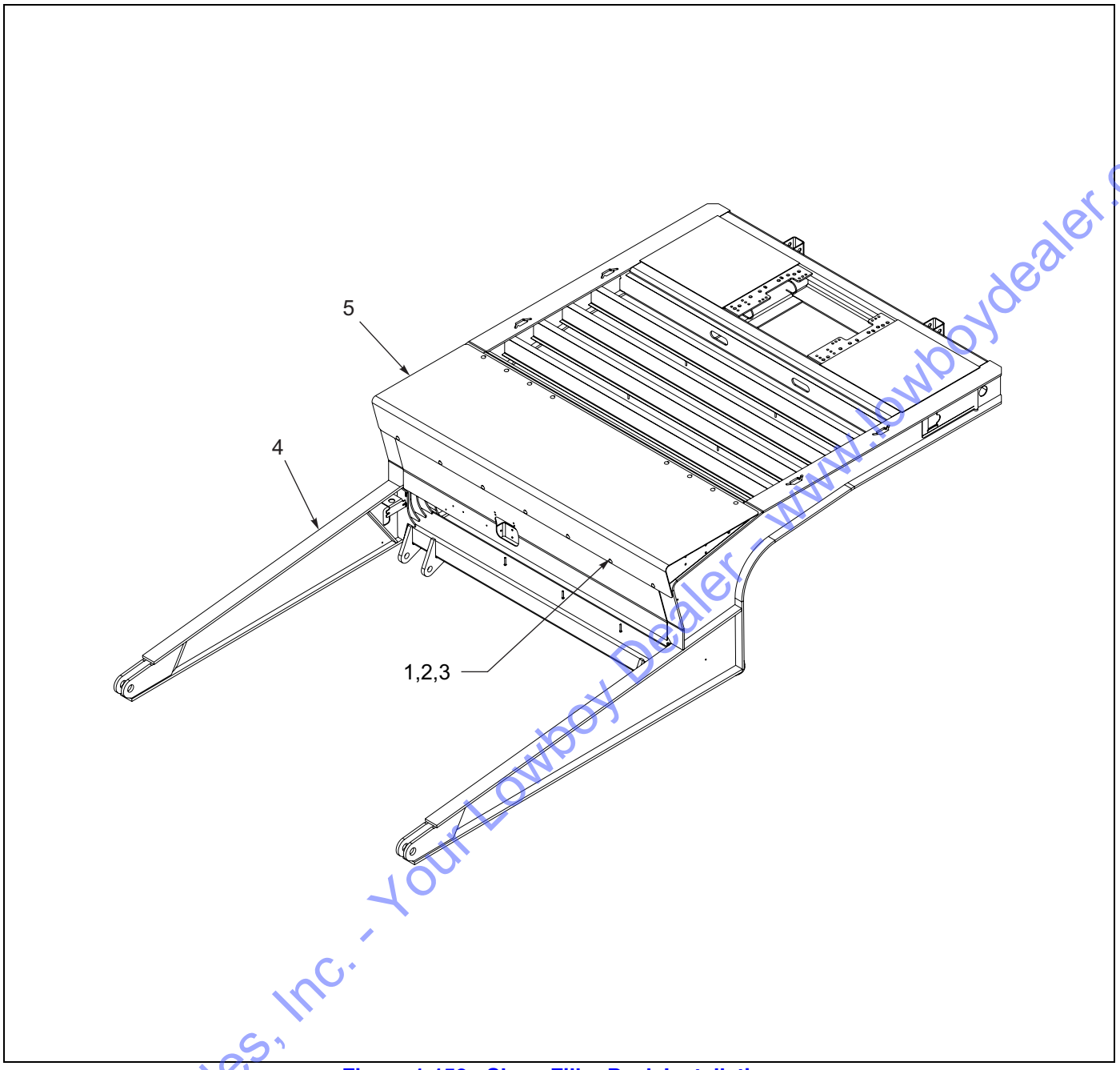


Figure 1-152: Slope Filler Deck Installation

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	-----	GOOSENECK WELDMENT	REF
5	150950	SLOPE FILLER WELDMENT	1

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