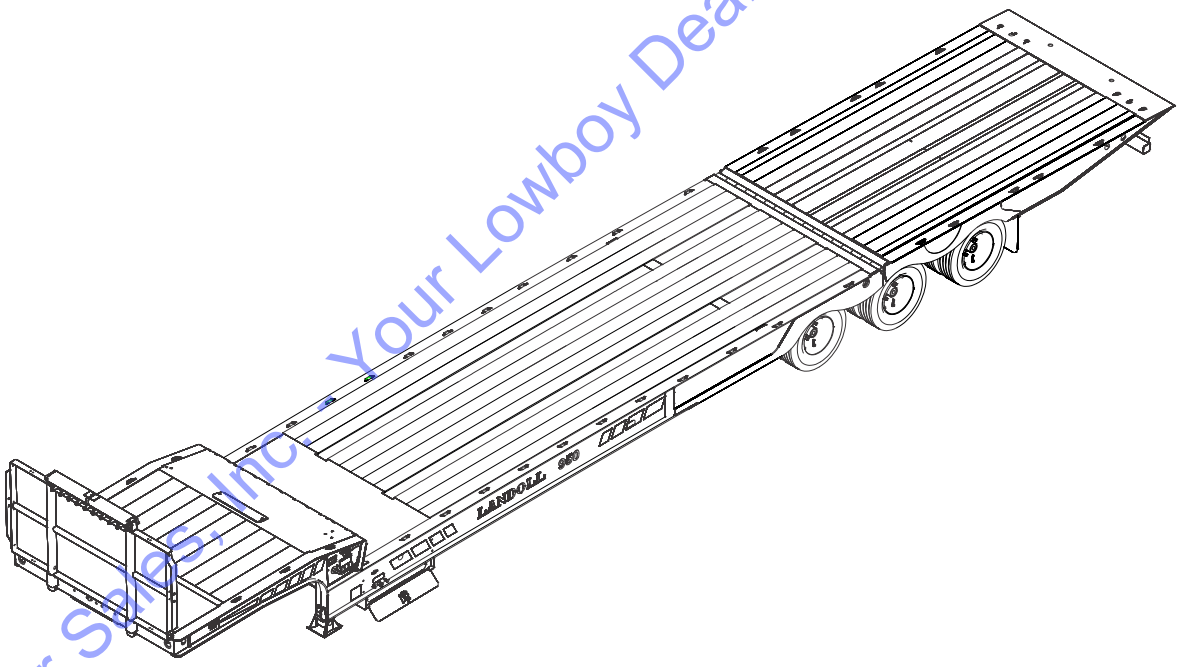
Model 900C Series
Hydraulic Tail Semitrailer
Parts Manual



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1900 North Street
Marysville, Kansas 66508
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Illustrated Parts List

Instructions For Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

PHONE NO: 1-800-423-4320 OR 1-785-562-5381 **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 900C Series Semitrailer is located on the identification plate.

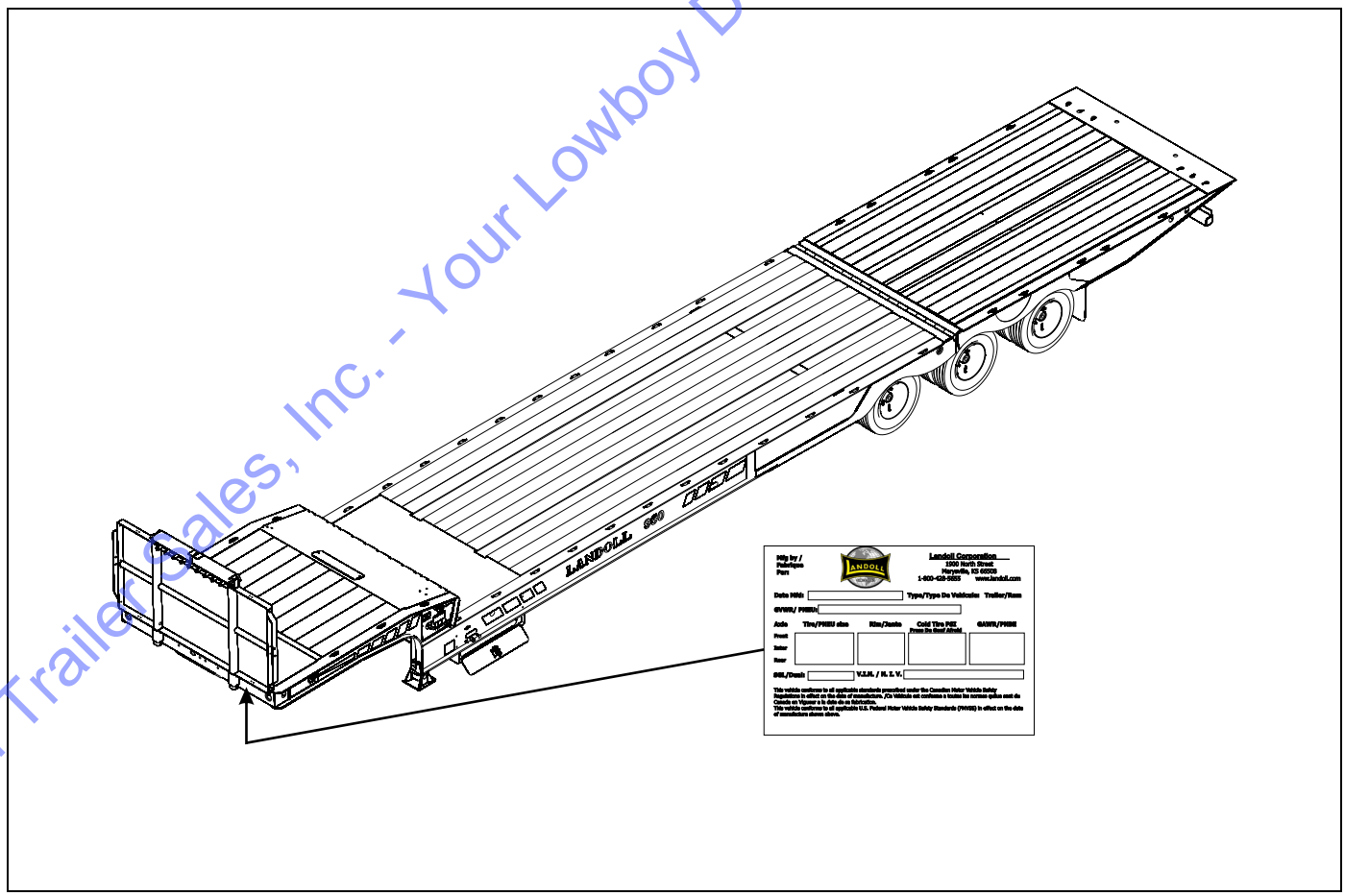


Figure 1-1: Identification Plate and Location

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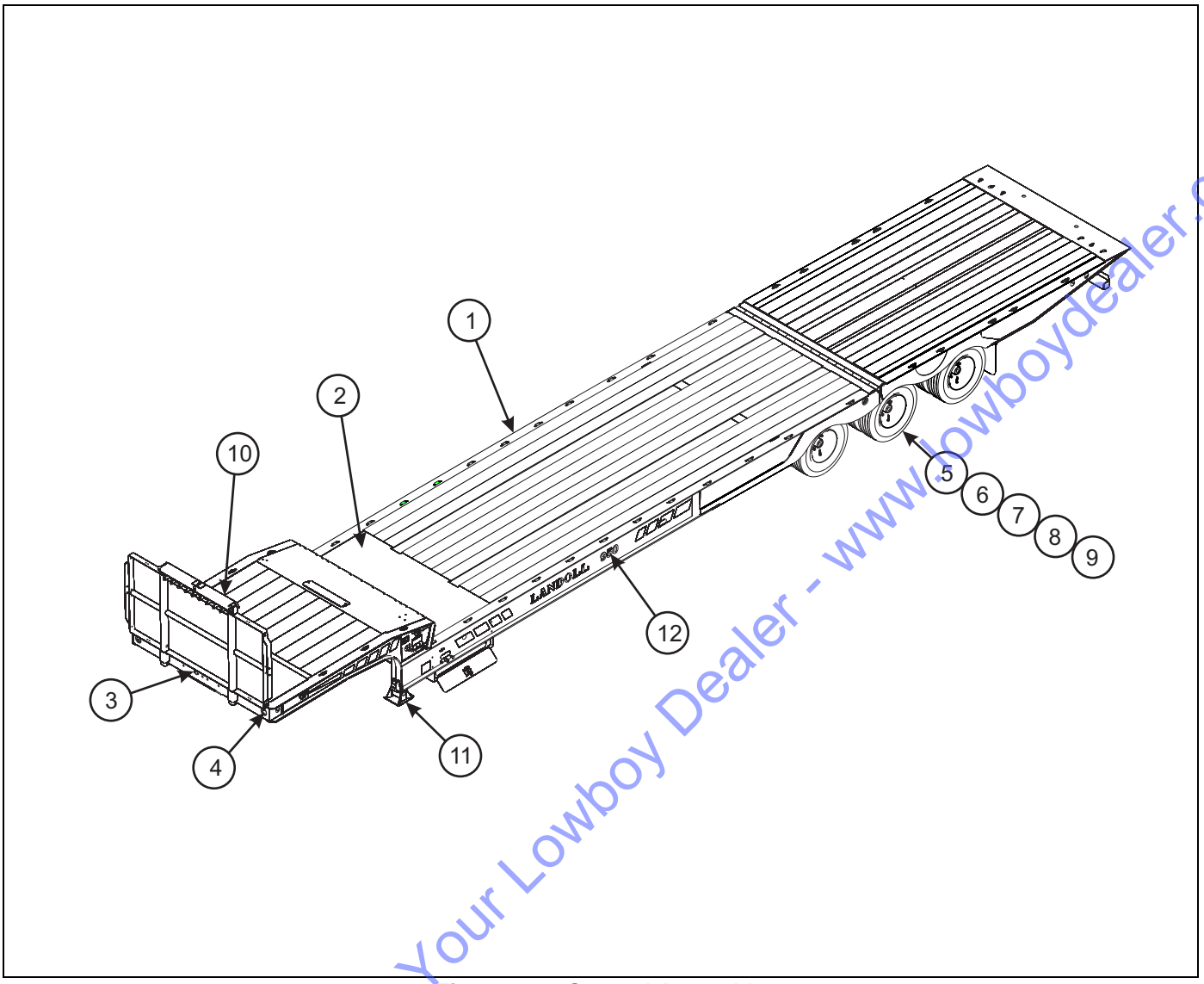
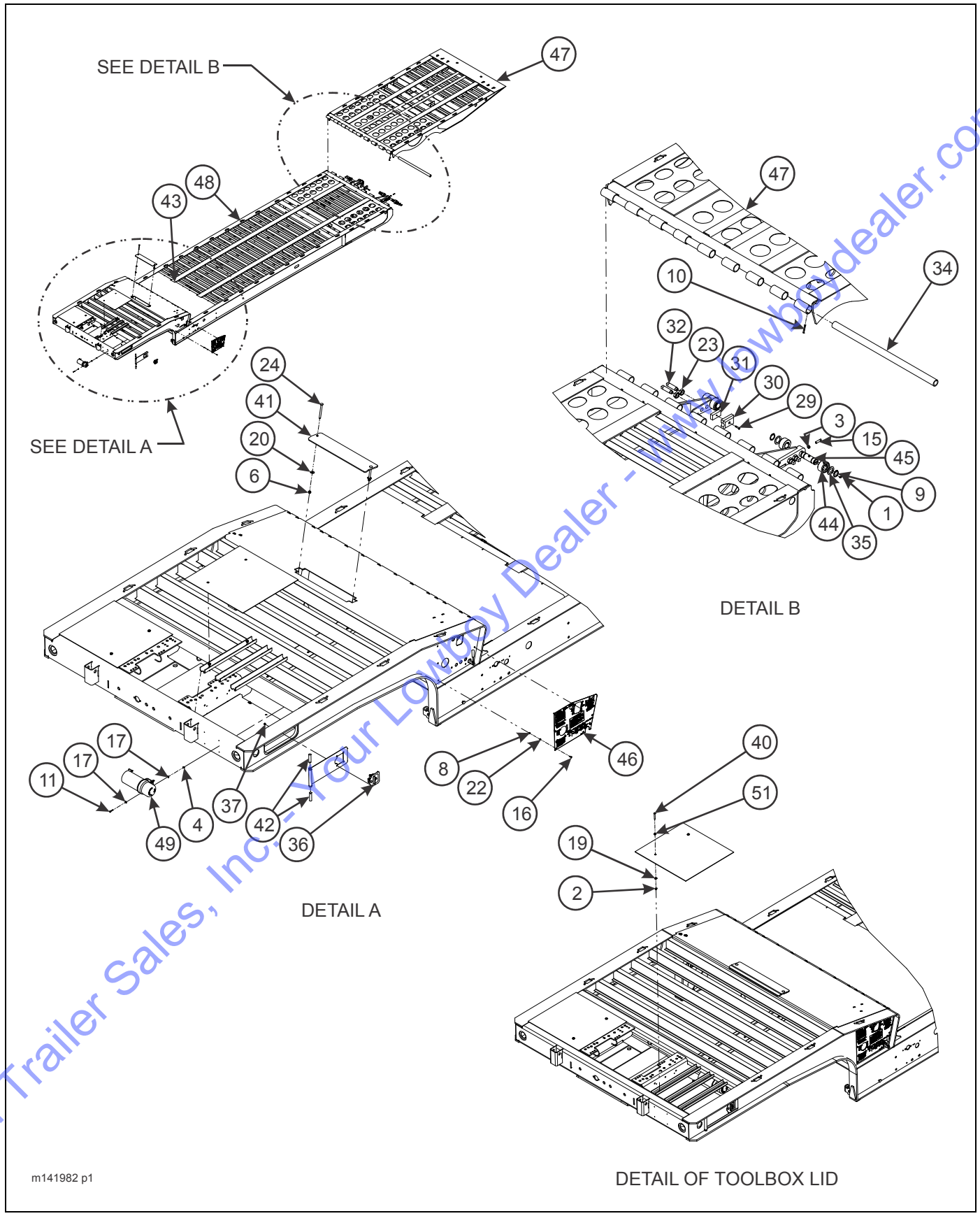


Figure 1-2: General Assembly

General Assembly

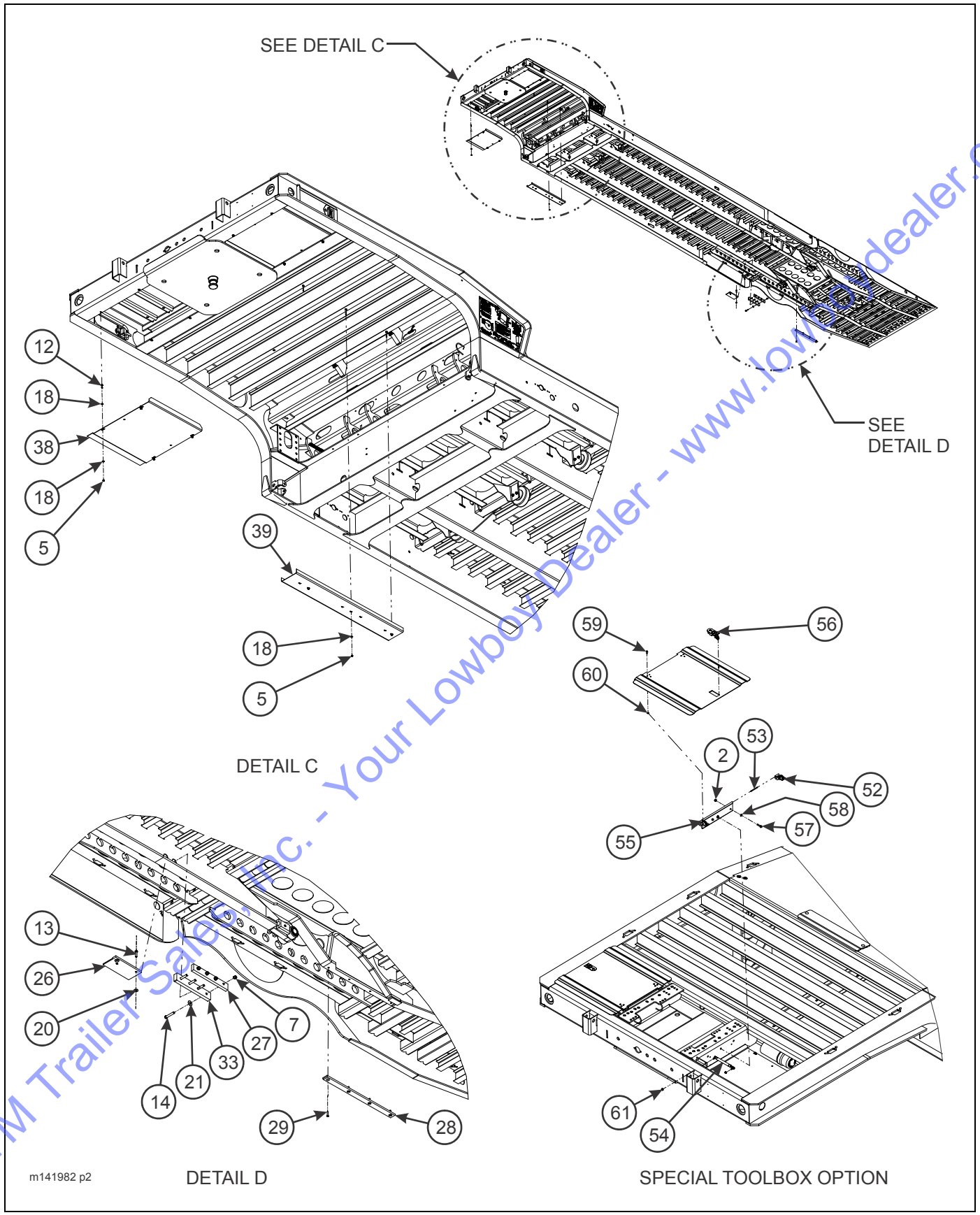
ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1	1-3 - 1-5	FRAME ASSEMBLY	
2	1-8 - 1-11	AIR RAMP ASSEMBLY	
3	1-12 - 1-25	HYDRAULIC SYSTEM AND ASSEMBLIES	
4	1-26 - 1-31	ELECTRICAL SYSTEM AND REMOTE ASSEMBLIES	
5	1-32 - 1-45	UNDERCARRIAGE ASSEMBLIES	
6	1-46 - 1-53	AIR RIDE SUSPENSION	
7	1-54 - 1-61	AIR BRAKE SYSTEMS	
8	1-62 - 1-65	AXLE AND BRAKE	
9	1-66 - 1-75	HUB AND DRUM ASSEMBLY AND TIRE INFLATION SYSTEM	
10	1-76 - 1-129	WINCH ASSEMBLIES	
11	1-130 - 1-133	LANDING GEAR ASSEMBLIES	
12	1-134 - 1-137	DECAL INSTALLATION	
13	1-138 - 1-215	MISCELLANEOUS OPTIONS **(NOT SHOWN)**	

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



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Figure 1-4: Frame Assembly (2 of 2)

Frame Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	FRAME ASSEMBLY	
1	1-298-010001-1	ZERK FITTING 1/4	4
2	1-510-010001	NUT, FLG HD, SERR 3/8-16 UNC	4
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	3
5	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	11
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
7	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	8
8	1-512-010007-05	NUT, HEX 1/4-20 GRB	6
9	1-630-010021-02	RING RETAINING 2 HD	4
10	1-647-010004259	SPRING PIN SLOTTED 3/8 X 3	2
11	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	3
12	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	8
13	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	REF
14	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	8
15	1-654-010150-05	SCREW, SET SQ HD CUP PT 5/8 X 2	2
16	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4	6
17	1-861-010032-07	WASHER, FLAT 1/4W	3
18	1-861-010032-08	WASHER, FLAT 5/16	19
19	1-861-010032-11	WASHER, FLAT, ZP/CD, 3/8W	4
20	1-861-010032-15	WASHER, FLAT 1/2	2
21	1-861-010032-19	WASHER, FLAT 5/8	16
22	1-861-010034-09	WASHER, SPLIT LOCK 1/4	6
23	100823	NUT, HEX JAM 1-1/4 X 7 GR2	4
24	100939	SCREW, RD HEAD SQ NECK 1/2-13 X 5-1/2	2
25	101299	KEY CHAIN, LANDOLL **(NOT SHOWN)**	1
26	107621	GLIDE, U/C	REF
27	107622	BLOCK MOUNTING NYLATRON HOLDOWN	2
28	107660	GLIDE, U/C	2
29	108294	SCREW, HEX SOCKET 3/8-16 X 1-3/4	10
30	108700	BLOCK, CENTERING NYLATRON	2
31	108701	BLOCK, CENTERING ADJUSTMENT	2
32	109004	ROD, THREADED ADJUSTMENT	4
33	109138	NYLATRON HOLD-DOWN BLOCK	2
34	113214	TUBE, ROUND 2-3/8 X 1-3/4 X 49-1/2	2
35	114562	BUSHING, MACHINE HARD 3 X 2 X 10GA	4
36	114814	LATCH, FOLDING T, LOCKABLE	2
37	115877	NUT, HVY HEX, 1/4-20 GR5	8
38	117544	PLATE TOOLBOX BOTTOM	2
39	117565	COVER, HOSE LOWER, 410 G/N	1
40	119146	SCREW, BHSC 3/8-16 UNC X 2-3/4	4
41	131196	PLATE, WINCH CABLE WEAR U/D	1
42	135181	BUSHING NYLATRON TOOLBOX	4
43	135415	RAMP ASSY, 4FT 900B	1
44	135613	ROLLER, 4” ASSEMBLY CONNEX	4
45	135614	PIN, ROLLERS REAR	2
46	136205	PLACARD, CONTROL PANEL	1
47	150033	TAIL WELDMENT WOOD 15’ 10R APPR HOLES	1

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Frame Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	150034	TAIL WELDMENT WOOD 15' 10R APPR HOLES - GALVANIZED	1
	160226	TAIL WELDMENT WOOD 15' 255R APPR HOLES - GALVANIZED	1
	160227	TAIL WELDMENT WOOD 14' GALVANIZED	1
48	173236	FRAME WELDMENT, 930-48' EURO STD 10R	1
	173271	FRAME WELDMENT, 930-48' EURO STD 10R - GALVANIZED	1
	173237	FRAME WELDMENT, 930-48' EURO STD 255	1
	173242	FRAME WELDMENT, 930-48' EURO STD 255 - GALVANIZED	1
	173238	FRAME WELDMENT, 930-48' EURO 6' RAMP 10R	1
	173243	FRAME WELDMENT, 930-48' EURO 6' RAMP 10R - GALVANIZED	1
	173239	FRAME WELDMENT, 930-48' EURO 6' RAMP 255	1
	173244	FRAME WELDMENT, 930-48' EURO 6' RAMP 255 - GALVANIZED	1
	185376	FRAME WELDMENT, 930-48' EURO STD 10R NLB	1
	185380	FRAME WELDMENT, 930-48' EURO STD 10R NLB- GALVANIZED	1
	185377	FRAME WELDMENT, 930-48' EURO STD 255 NLB	1
	185381	FRAME WELDMENT, 930-48' EURO STD 255 NLB - GALVANIZED	1
	185378	FRAME WELDMENT, 930-48' EURO 6' RAMP 10R NLB	1
	185382	FRAME WELDMENT, 930-48' EURO 6' RAMP 10R NLB - GALVANIZED	1
	185379	FRAME WELDMENT, 930-48' EURO 6' RAMP 255 NLB	1
	185383	FRAME WELDMENT, 930-48' EURO 6' RAMP 255 NLB - GALVANIZED	1
49	150076	MANUAL HOLDER	1
50	3-201-010002	CONDUIT, 3/8 PLASTIC FLEX	AR
51	805-2	BUSHING, STEP	4
	125837	ROLLER AND PIN KIT **(ITEMS 1, 9, 35, 44, & 45) (KIT INCLUDES QTY'S OF 4 NEEDED FOR FRAME)**	1
	135837	ROLLER AND PIN KIT **(ITEMS 1, 9, 35, 44, 45, & P/N 135615 SHOWN ON UNDERCARRIAGE PAGES) (KIT INCLUDES QTY'S OF 6 NEEDED FOR FRAME AND UNDERCARRIAGE)**	1

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Table provided for general use.

NOTES:

Air Ramp

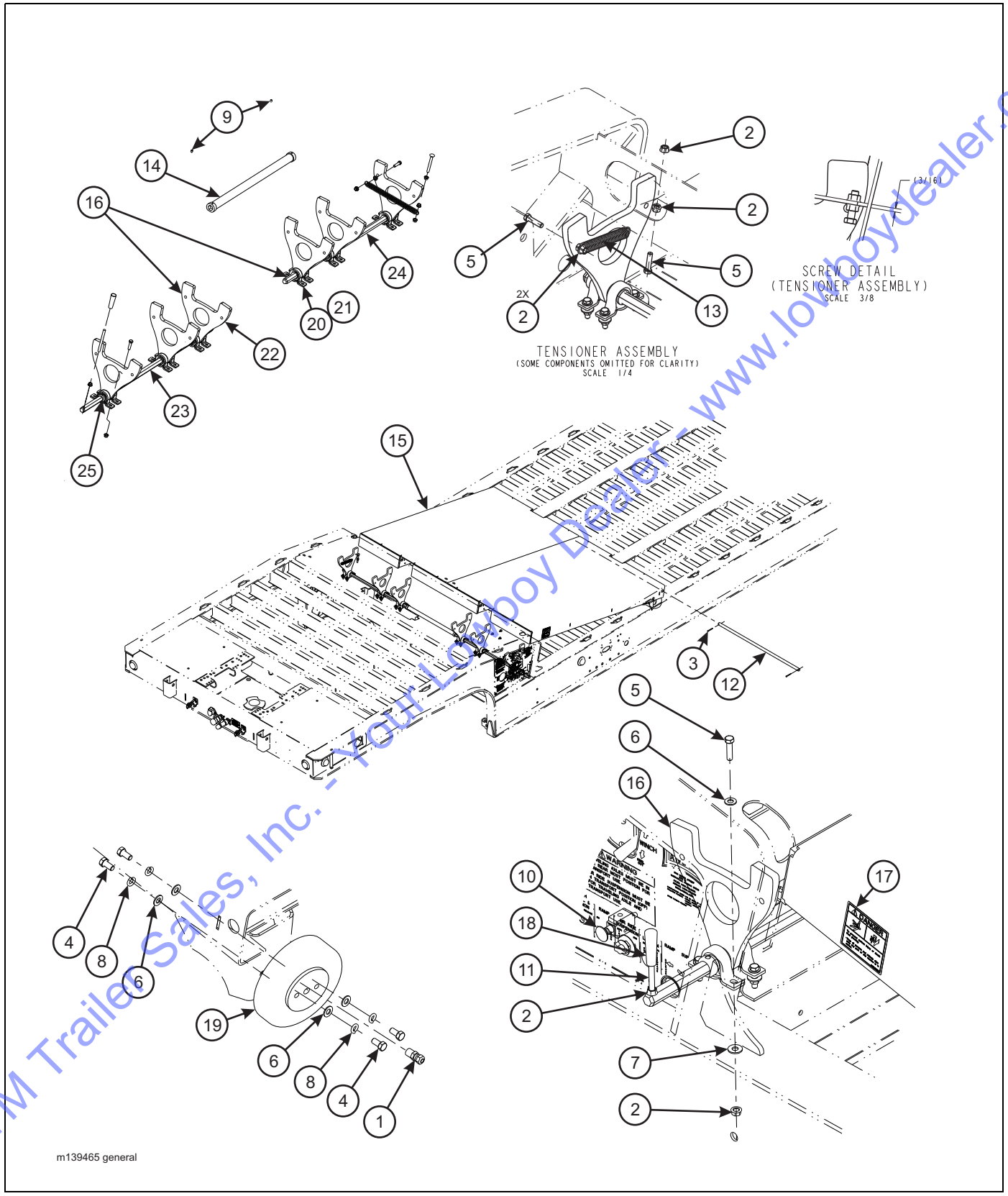


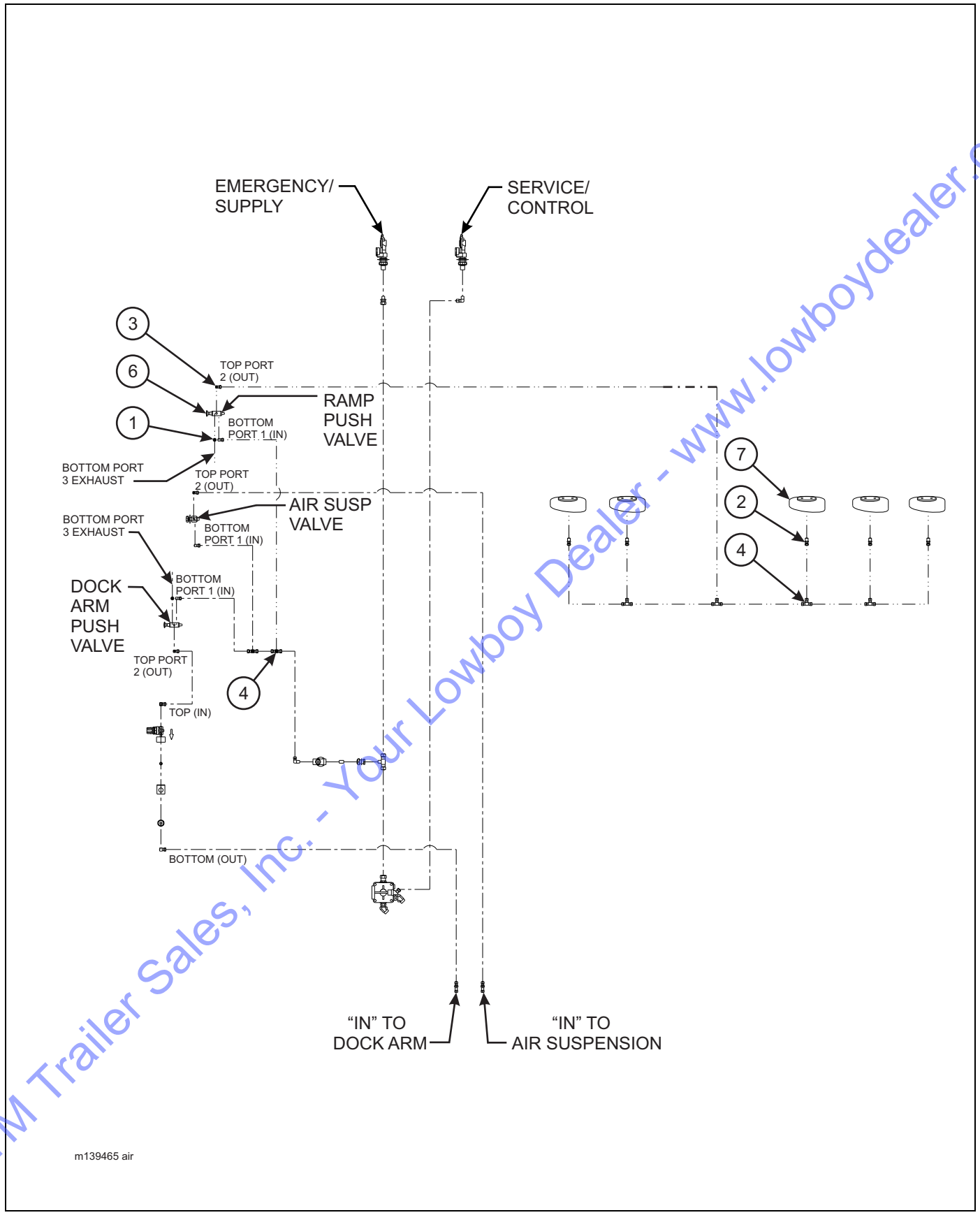
Figure 1-5: 6' Air Ramp - General Assembly

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6’ Air Ramp - General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	139465	RAMP ASSEMBLY 6'	
1	1-297-010007-05	FITTING, AIR	REF
2	1-510-010001	NUT, FLANGE LOCK 3/8-16	29
3	1-557-010362-63	PIN, COTTER 1/2 X 2	4
4	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	20
5	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	26
6	1-861-010032-10	WASHER, FLAT 3/8N	44
7	1-861-010032-11	WASHER, FLAT 3/8W	24
8	1-861-010034-11	WASHER, SPLIT LOCK 3/8	20
9	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
10	107887	VALVE AIR PUSH BUTTON	1
11	108969	ROD, THREADED RAMP HANDLE	1
12	113532	PIN, RAMP HINGE, 2 PIECE PIN	2
13	129985	SPRING, EXTENSION	1
14	137069	COUPLER, SHAFT RAMP LATCH	1
15	139464	RAMP WELDMENT 6' - DOUBLE DROP	1
16	141606	RAMP BRACKET ASSEMBLY **(ITEMS 20-25)**	1
17	2-573-010335	DECAL, DANGER PINCHIN **(SEE PAGE 1-137)**	2
18	3-360-010072	HANDLE, PLASTIC	1
19	3-720-010042	SPRING AIR 6-1/2	5
20	135357	BEARING, SELF ALIGN	12
21	135398	PILLOW BLOCK STAMPED	12
22	136225	LATCH WELDMENT, RAMP	6
23	137065	SHAFT, LH HEX RAMP LATCH	1
24	137066	SHAFT, RH HEX RAMP LATCH	1
25	71503635	COLLAR, RETAINING 1”	2

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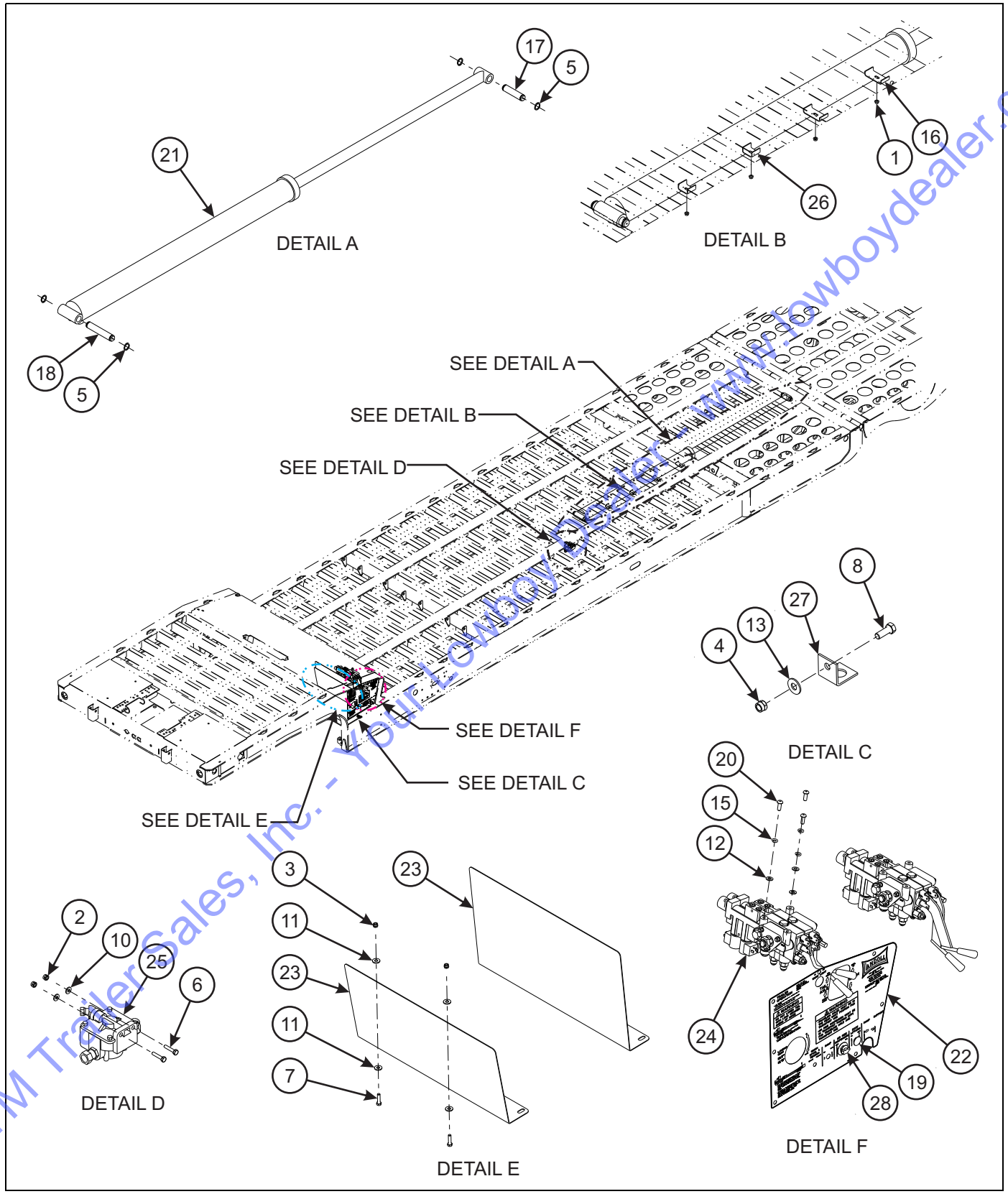
Figure 1-6: 6' Air Ramp - Air System

6’ Air Ramp - Air System

ITEM	PART NO.	DESCRIPTION	QTY.
	139465	RAMP ASSEMBLY 6'	
1	1-297-010007-04	FITTING, AIR	1
2	1-297-010007-05	FITTING, AIR	5
3	1-297-010008-05	FITTING, AIR 90	2
4	1-297-010010-01	FITTING, AIR UNION TEE	5
5	1-833-010001	TUBING NYLON 1/4	AR
6	107887	VALVE AIR PUSH BUTTON	REF
7	3-720-010042	SPRING AIR 6-1/2	REF

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Hydraulic Electrical Air



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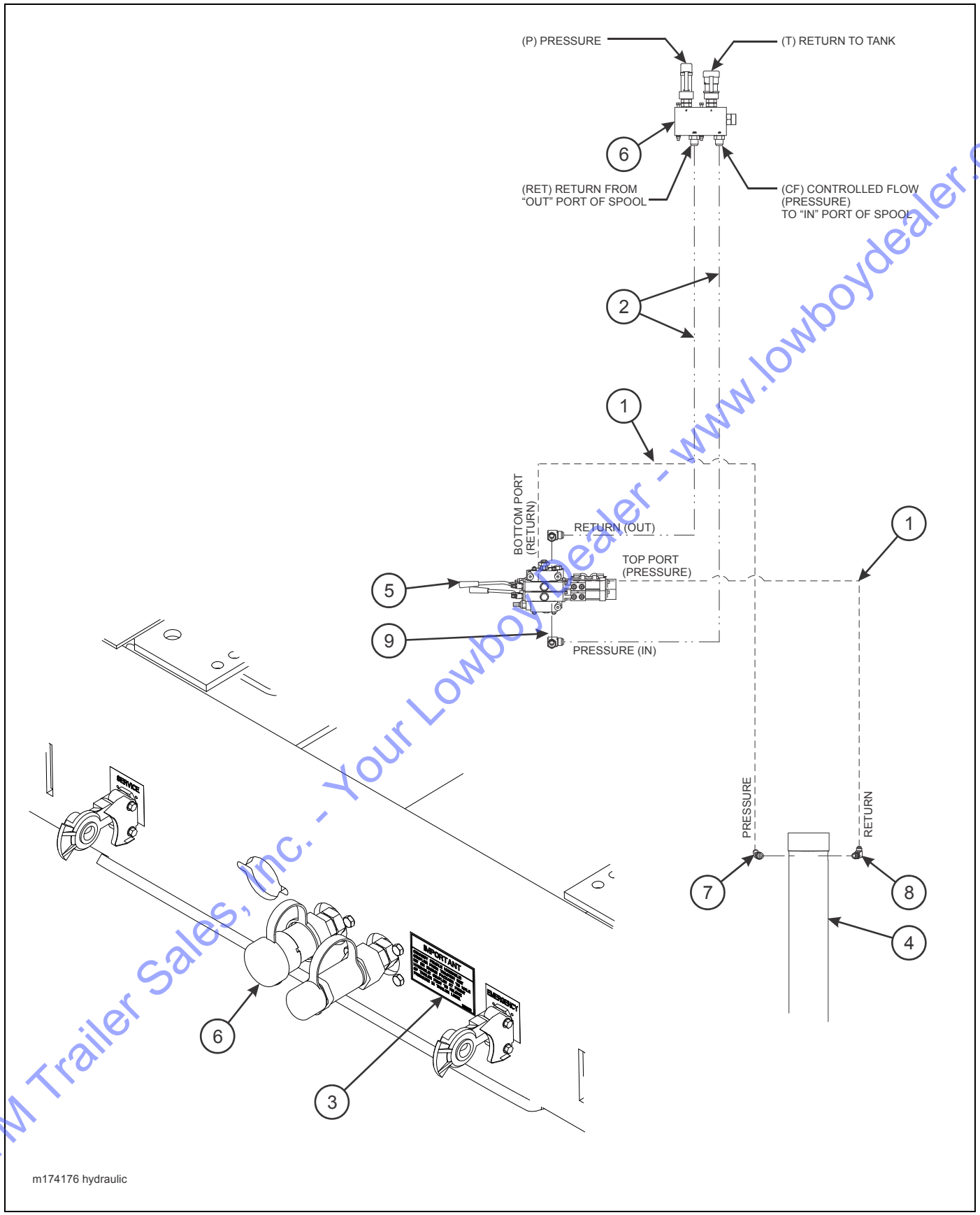
Figure 1-7: General Assembly

General Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	144620	HYDRAULIC ELECTRICAL AIR 900-45/12, 48/15	
	144621	HYDRAULIC ELECTRICAL AIR 900-48/12, 50/14, 51/15	
	188199	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15	
	144622	HYDRAULIC ELECTRICAL AIR 900-45/12, 48/15 - W/ ENGINE	
	144623	HYDRAULIC ELECTRICAL AIR 900-48/12, 50/14, 51/15 - W/ ENGINE	
	186699	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15 - W/ ENGINE	
	145659 **	HYDRAULIC ELECTRICAL AIR 900 HD-53'	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	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	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
5	1-630-010021-01	RING, SNAP	4
6	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2
7	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
8	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
9	1-796-010003-02	TIE WRAPS **(NOT SHOWN)**	20
10	1-861-010032-06	WASHER, FLAT 1/4	2
11	1-861-010032-09	WASHER, FLAT 5/16W	4
12	1-861-010032-10	WASHER, FLAT 3/8N	3
13	1-861-010032-11	WASHER, FLAT 3/8W	1
14	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2
15	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
16	103817	CLAMP, HOSE	2
17	107657	PIN, 1-1/2 X 6-3/8	1
18	107658	PIN, 1-1/2 X 8-1/4	1
19	107887	VALVE AIR PUSH BUTTON	1
20	108336	SCREW, SOCKET BUTTON 3/8-16 X 1	3
21	109126	CYLINDER 5 X 60 W/ PLT CHK (**SEE PAGE 1-18)**	1
22	136205	PLACARD, CONTROLS	REF
23	136223	SHIELD, HYDRAULICS	**0, 1
	145658	SHIELD, HYDRAULICS	**1, 0
24	140802	VALVE ASSEMBLY, TWO SPOOL **(SEE PAGE 1-21)**	**0, 1
	145662	VALVE ASSEMBLY, HEAVY DUTY SPOOL **(SEE PAGE 1-22)**	**1, 0
25	141607	VALVE ASSEMBLY, AIR BOOSTER **(SEE PAGE 1-20)**	1
26	2-181-010001	CLAMP, HOSE	2
27	3-120-010445	BRACKET, PRESSURE REGULATOR **(NOT SHOWN)**	1
28	900-54-088	VALVE, MANUALLY OPERATED	1

** 1ST QUANTITY IS USED WITH P/N - 145659
2ND QUANTITY IS USED WITH P/N - 144620, 144621, 144622, 188199, 186699 & 144623

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Figure 1-8: Hydraulic System

Hydraulic System

ITEM	PART NO.	DESCRIPTION	QTY.						
	144620	HYDRAULIC ELECTRICAL AIR 900-45/12, 48/15	*						
	144621	HYDRAULIC ELECTRICAL AIR 900-48/12, 50/14, 51/15		*					
	144622	HYDRAULIC ELECTRICAL AIR 900-45/12, 48/15 - W/ ENGINE			*				
	144623	HYDRAULIC ELECTRICAL AIR 900-48/12, 50/14, 51/15 - W/ ENGINE				*			
	145659	HYDRAULIC ELECTRICAL AIR 900 HD-53’					*		
	188199	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15						*	
	186699	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15 - W/ ENGINE							*
1	1-397-010301220	HOSE ASSEMBLY, 1/2 X 220	2	--	2	--	--	--	--
	1-397-010301268	HOSE ASSEMBLY, 1/2 X 254	--	2	--	2	2	--	--
	1-397-010301296	HOSE ASSEMBLY, 1/2 X 296	--	--	--	--	--	2	2
2	1-397-010305164	HOSE ASSEMBLY 3/4 X 164	--	--	--	--	2	--	--
	136224	HOSE ASSEMBLY 3/4 X 136	2	2	--	--	--	2	--
3	105822	DECAL, HYD COUPLER **(SEE PAGE 1-137)**	1	1	--	--	1	1	--
4	109126	CYLINDER 5 X 60 W/ PLT CHK **(SEE PAGE 1-18)**	REF	REF	REF	REF	REF	REF	REF
5	140802	VALVE ASSEMBLY	REF	REF	REF	REF	REF	REF	REF
6	171320	CONNECTORS, HYD/ AIR, FLOW CONTROL **(SEE PAGE 1-19)**	1	1	--	--	1	1	--
7	2061-8-8S	ADAPTER, 45	1	1	1	1	1	1	1
8	2062-8-8S	ADAPTER, 90	1	1	1	1	1	1	1
9	2071-12-12S	ADAPTER, 90	2	2	2	2	2	2	2

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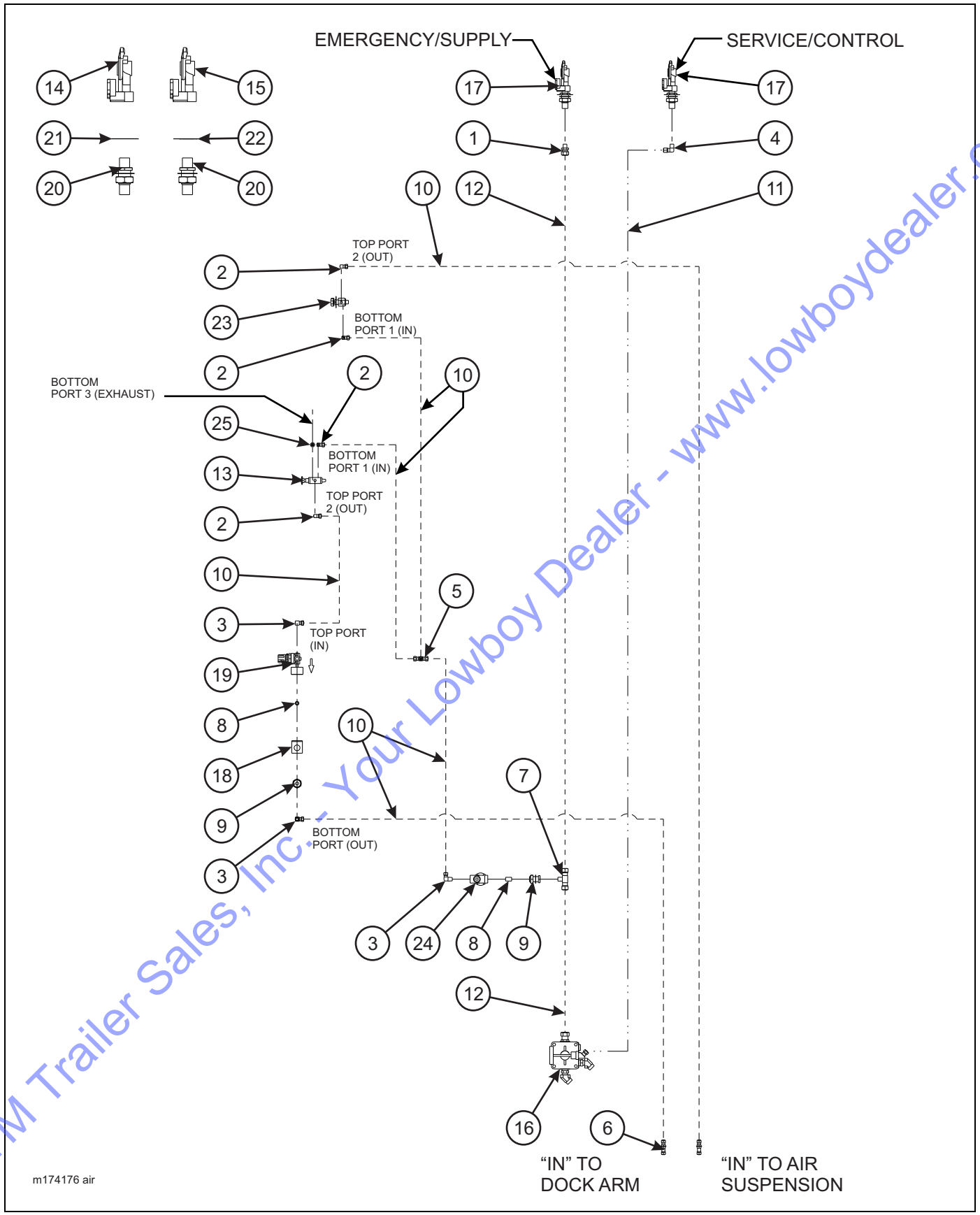


Figure 1-9: Air System

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Air System

ITEM	PART NO.	DESCRIPTION		QTY.
	144620	HYDRAULIC ELECTRICAL AIR 900-45/12.48/15	*	
	144621	HYDRAULIC ELECTRICAL AIR 900-48/12.51/15	*	
	188199	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15	*	
	145659	HYDRAULIC ELECTRICAL AIR 900 HD-53	*	
	144622	HYDRAULIC ELECTRICAL AIR 900-45/12.48/15 W/ ENGINE		*
	144623	HYDRAULIC ELECTRICAL AIR 900-45/12.51/15 W/ ENGINE		*
	186699	HYDRAULIC ELECTRICAL AIR 900-50/12, 52/14, 53/15 - W/ ENGINE		*
1	1-297-010007-14	FITTING AIR	1	1
2	1-297-010008-05	FITTING AIR 90	4	4
3	1-297-010008-07	FITTING AIR 90	3	3
4	1-297-010008-18	FITTING AIR 90	1	1
5	1-297-010010-01	FITTING, AIR UNION TEE 1/4	1	1
6	1-297-010014-02	FITTING AIR BULKHEAD UNION 1/4	2	2
7	1-297-010015-09	FITTING AIR, BR TEE	1	1
8	1-297-010020-02	FITTING BR PIPE	2	2
9	1-297-010022-02	FITTING, AIR ANCHOR COUPLING	2	2
10	1-833-010001	TUBING NYLON 1/4 OD	AR	AR
11	1-833-010002	TUBING NYLON 3/8 OD	AR	AR
12	1-833-010003	TUBING NYLON 1/2 OD	AR	AR
13	107887	VALVE AIR PUSH BUTTON	REF	REF
14	108801	GLADHAND RED AIR	--	1
15	108802	GLADHAND BLUE AIR	--	1
16	141607	VALVE ASSEMBLY, AIR BOOSTER **(SEE PAGE 1-20)**	REF	REF
17	171320	CONNECTORS, HYD/ AIR - FLOW CONTROL **(SEE PAGE 1-19)**	REF	--
18	3-120-010445	BRACKET PRESSURE REGULATOR	REF	REF
19**	3-626-010004	REGULATOR AIR PRESSURE	1	1
20	55B61	FRAME UNION	--	2
21	55B61-6	TAG EMERGENCY LINE	--	1
22	55B61-7	TAG SERVICE LINE	--	1
23	900-54-088	VALVE, MANUALLY OPERATED	REF	REF
24	905-54-107	BRAKE PROTECTION VALVE	1	1
25	1-297-010007-04	FITTING AIR	1	1

**REGULATOR TO BE SET AT 60 PSI

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Cylinders & Air Connectors

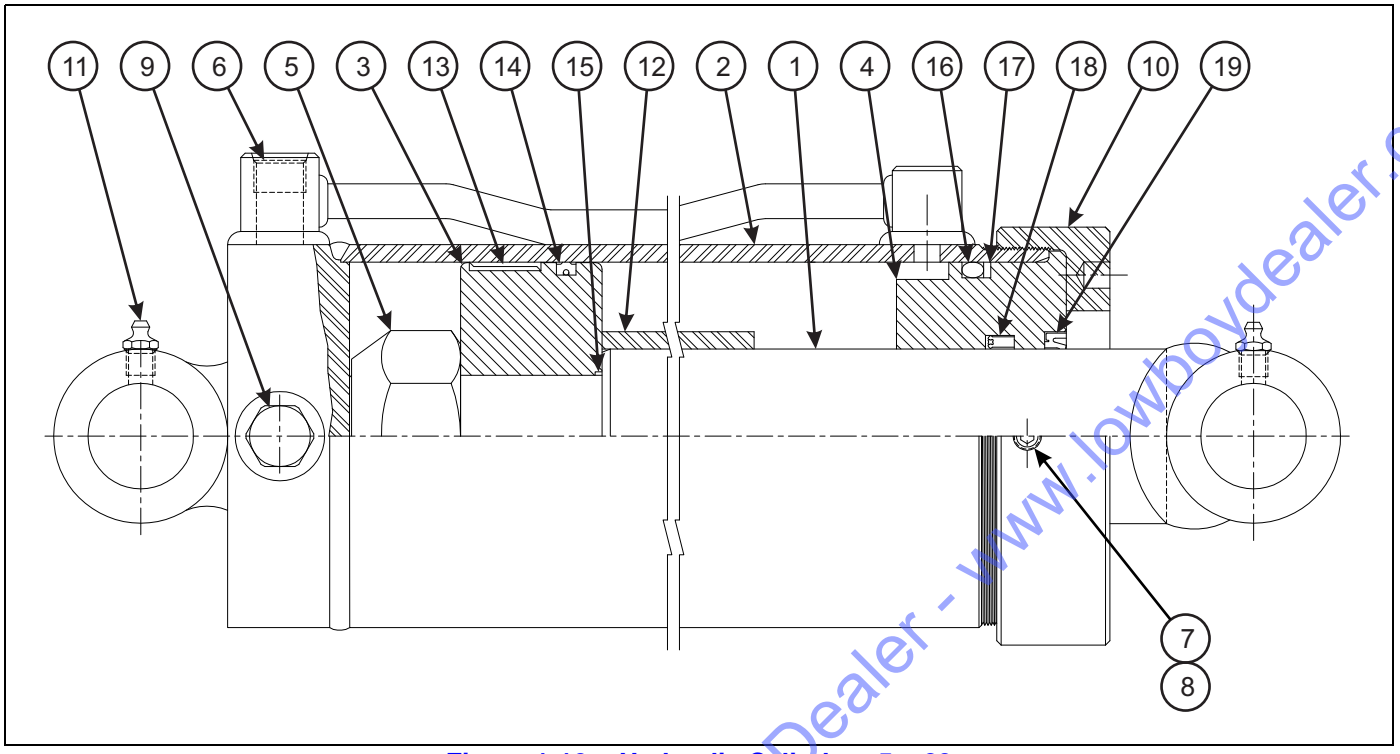


Figure 1-10: Hydraulic Cylinder - 5 x 60

Hydraulic Cylinder - 5 X 60

ITEM	PART NO.	DESCRIPTION	QTY.
	109126	CYLINDER 5 X 60 W/ PLT CHK	
1	114081	PISTON ROD ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	179002	GLAND	1
5	-----	LOCKNUT	1
6	-----	PORT PLUG	2
7	-----	SET SCREW	1
8	-----	NYLON LOCK	1
9	109145	CHECK VALVE CARTRIDGE	1
10	-----	GLAND CAP	1
11	-----	GREASE ZERK	2
12	-----	SPACER	1
13*	-----	BEARING RING	1
14*	-----	CROWN SEAL	1
15*	-----	O-RING	1
16*	-----	O-RING	1
17*	-----	BU-WASHER	1
18*	-----	U-CUP	1
19*	-----	WIPER	1
	109144	*PACKING KIT **(ITEMS 13-19)**	

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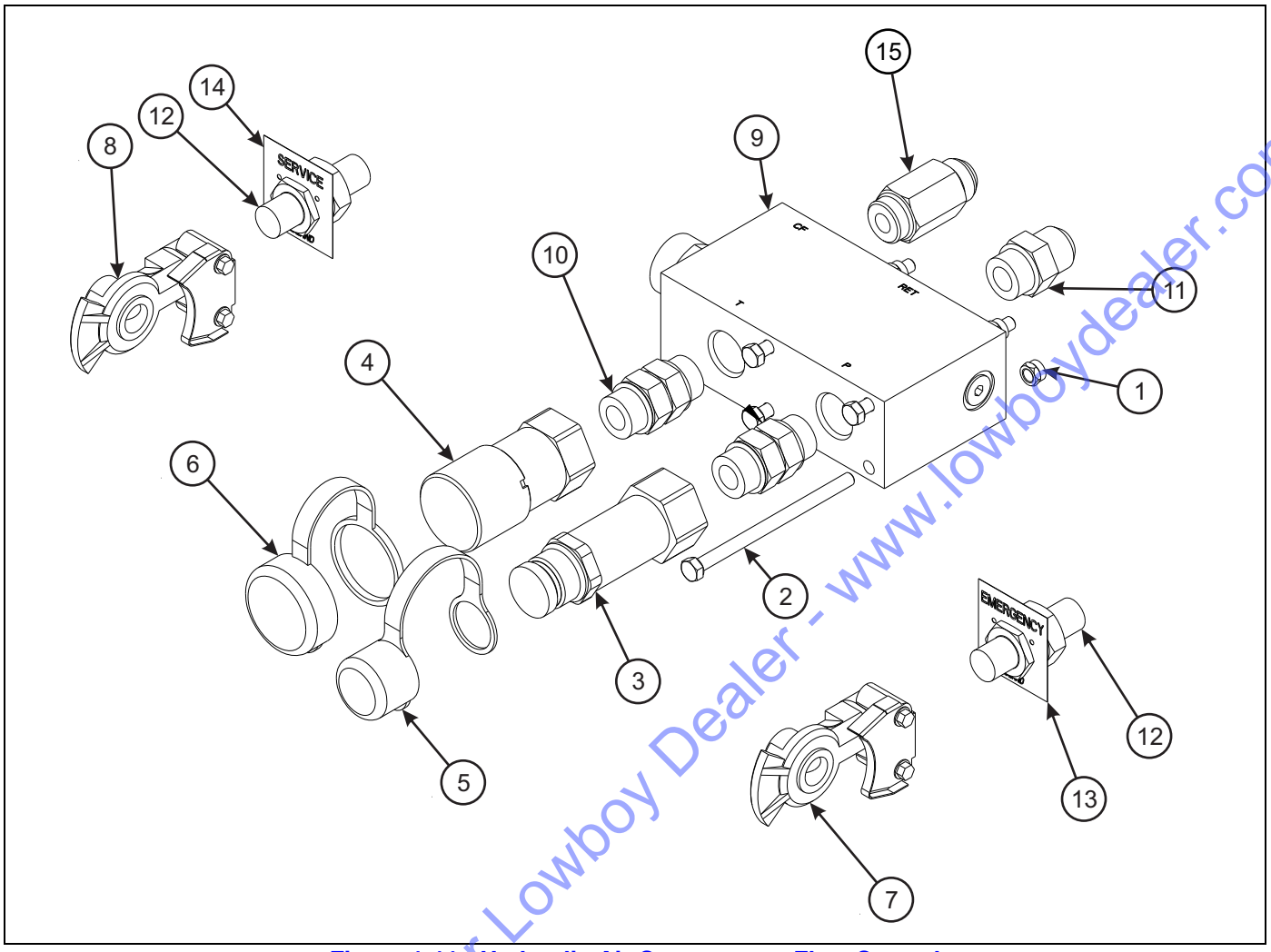


Figure 1-11: Hydraulic Air Connectors - Flow Control

Hydraulic Air Connectors - Flow Control

ITEM	PART NO.	DESCRIPTION	QTY.
	171320	CONNECTORS, HYDRAULIC/AIR - FLOW CONTROL	
1	1-512-010005-03	NUT, HEX LOCK 5/16-18	4
2	1-654-010049-19	SCREW, HEX HEAD CAP 5/16-18 X 5 GR5	4
3	105479	COUPLER, FLAT FACE MALE	1
4	105480	COUPLER, FLAT FACE FEMALE	1
5	105481	COUPLER, DUST CAP MALE	1
6	105482	COUPLER, DUST CAP FEMALE	1
7	108801	GLADHAND, RED AIR	1
8	108802	GLADHAND, BLUE AIR	1
9	158580	VALVE, FLOW CONTROL 14 GPM	1
10	158581	ADAPTER, STR	2
11	202702-12-12S	ADAPTER, STR	1
12	55B61	FRAME UNION	2
13	55B61-6	TAG EMERGENCY LINE	1
14	55B61-7	TAG SERVICE LINE	1
15	184243	ADAPTER STR LONG	1

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Valves

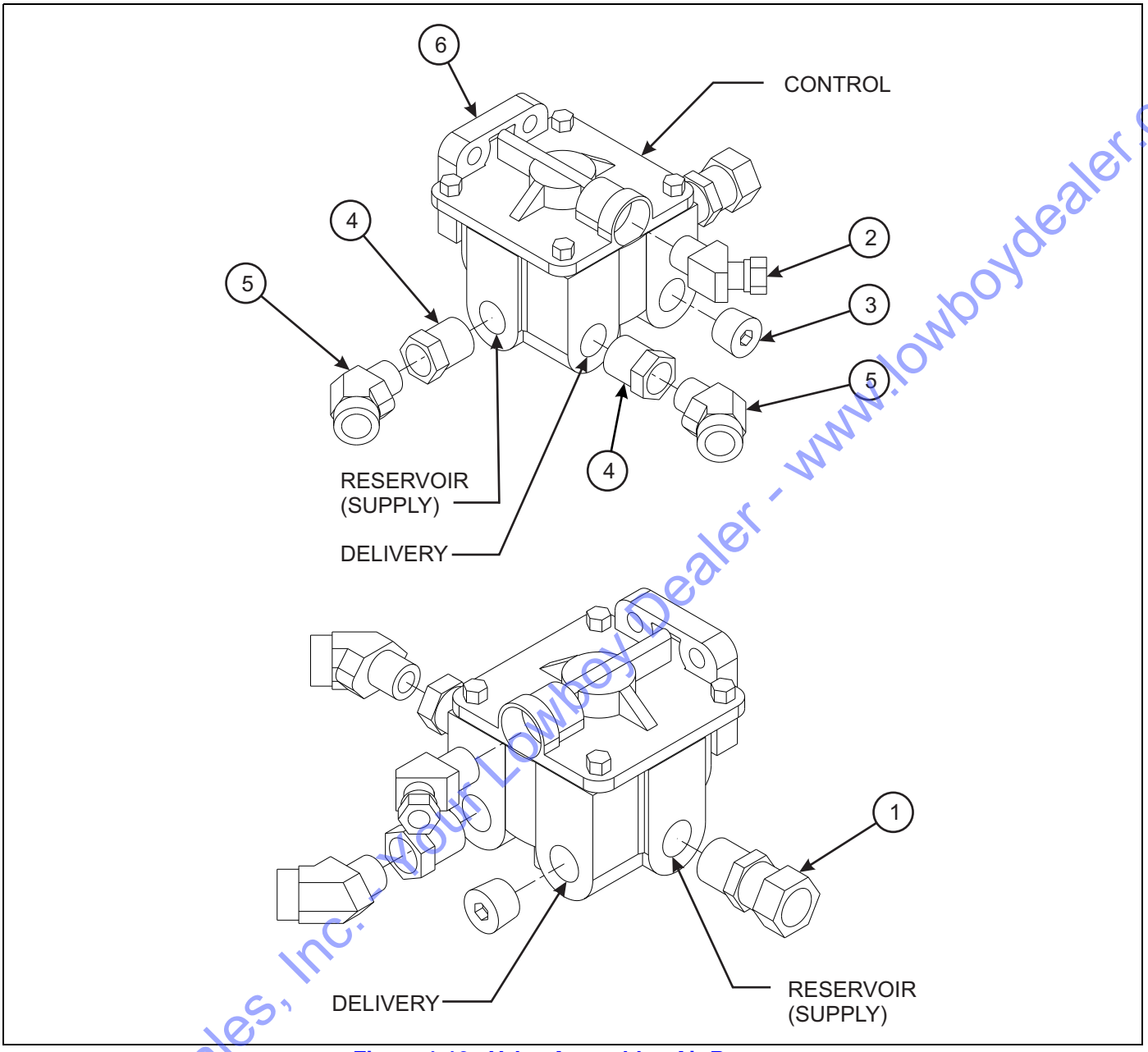


Figure 1-12: Valve Assembly - Air Booster

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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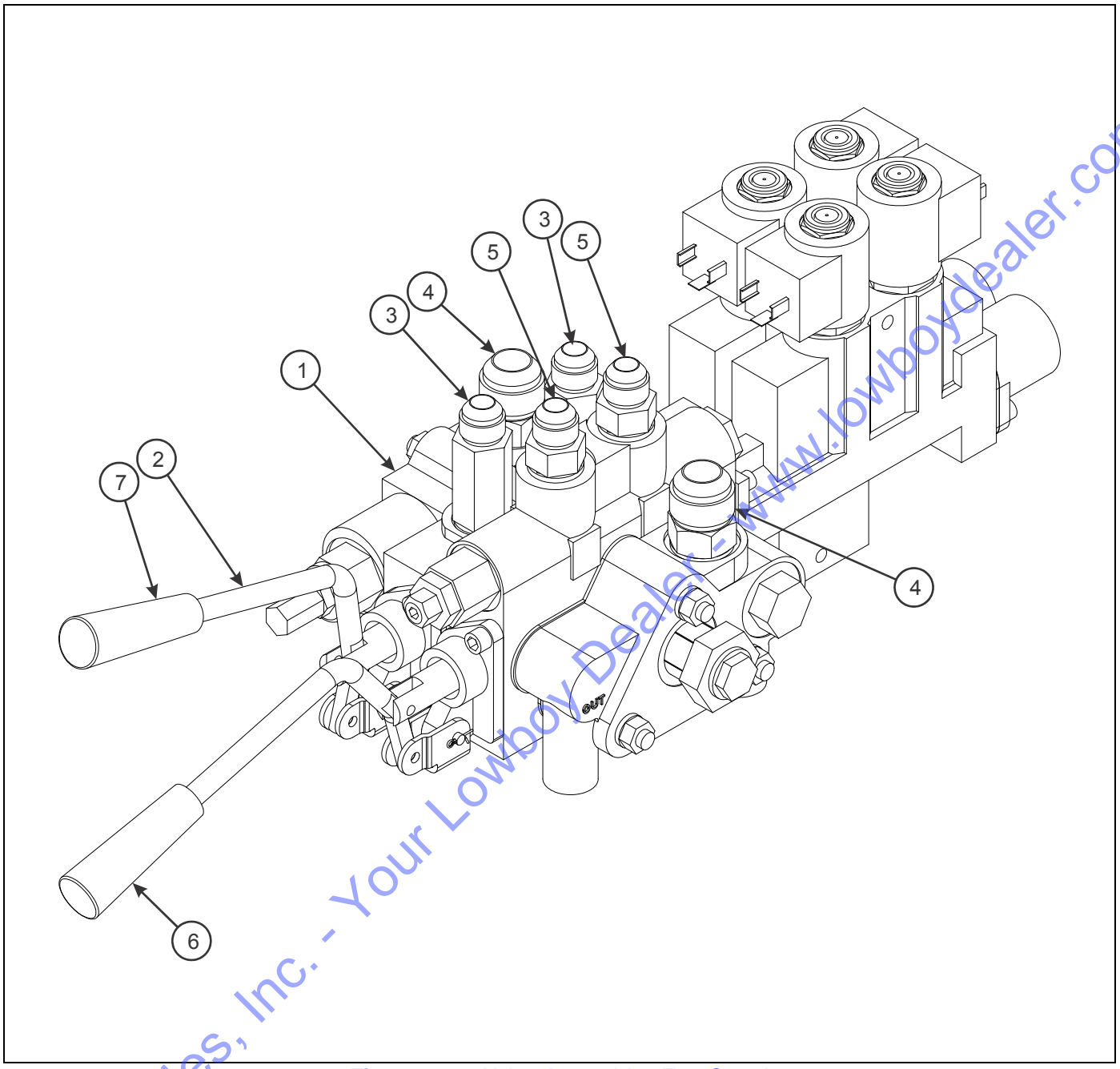


Figure 1-13: Valve Assembly - Two Spool

Valve Assembly - Two Spool

ITEM	PART NO.	DESCRIPTION	QTY.
	140802	VALVE ASSEMBLY	
1	114538	VALVE, 2 STACK SOL **(SEE PAGE 1-25)**	1
2	135358	HANDLE, VALVE FORMED	2
3	140893	ADAPTER, STR	2
4	202702-10-12S	ADAPTER	2
5	202702-8-8S	ADAPTER	2
6	3-360-010072	HANDLE, PLASTIC BLACK	1
7	3-360-010090	HANDLE, PLASTIC RED	1

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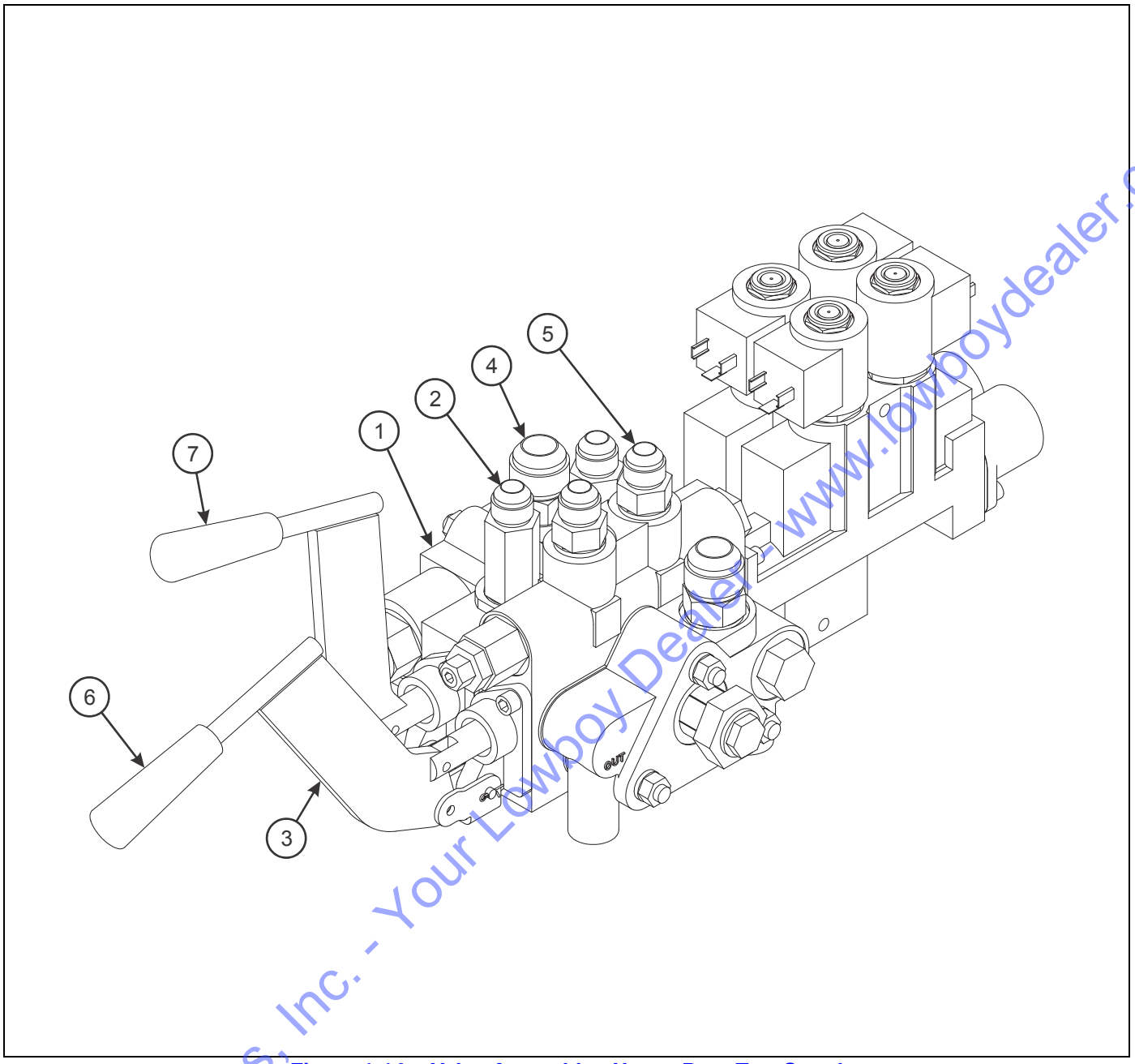


Figure 1-14: Valve Assembly - Heavy Duty Two Spool

Valve Assembly - Heavy Duty Two Spool

ITEM	PART NO.	DESCRIPTION	QTY.
	145662	VALVE ASSEMBLY - HEAVY DUTY FRAMES	
1	114538	VALVE, 2 STACK SOL **(SEE PAGE 1-25)**	1
2	140893	ADAPTER, STR	2
3	145665	HANDLE WELDMENT, VALVE	2
4	202702-10-12S	ADAPTER	2
5	202702-8-8S	ADAPTER	2
6	3-360-010072	HANDLE, PLASTIC BLACK	1
7	3-360-010090	HANDLE, PLASTIC RED	1

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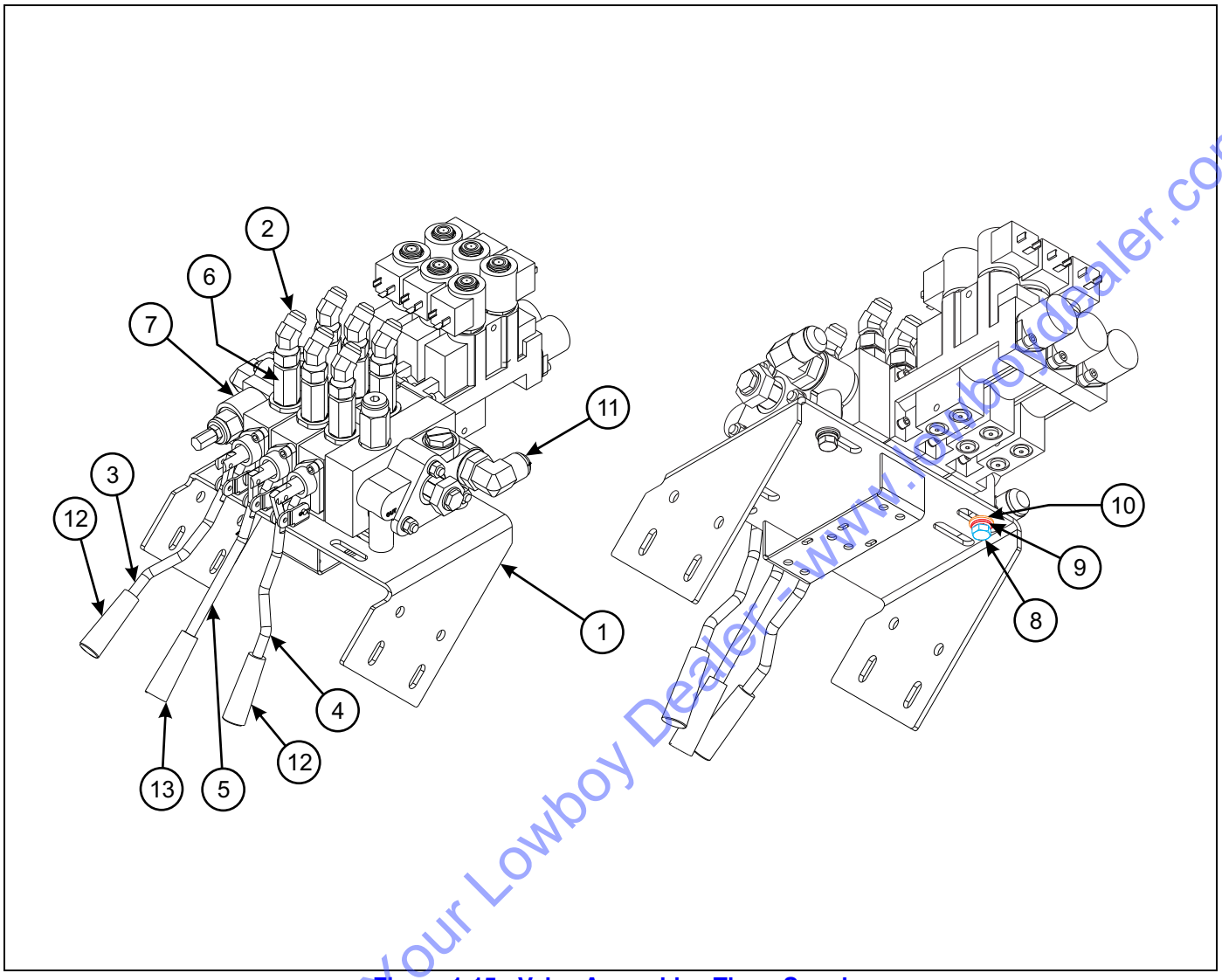


Figure 1-15: Valve Assembly - Three Spool

Valve Assembly - Three Spool

ITEM	PART NO.	DESCRIPTION	QTY.
	148241	VALVE, 3 SPOOL VALVE ASSEMBLY	
1	116837	VALVE MOUNT WELDMENT CONTROLS 410	1
2	121031	ADAPTER, 45, #8 O-RING, TUBE	6
3	136377	VALVE, HANDLE, RH FORMED 400	1
4	136378	VALVE, HANDLE, LH FORMED 400	1
5	139519	VALVE, HANDLE, CTR FORMED 400	1
6	140893	ADAPTER, STR, LONG #8JIC - #8ORB	6
7	148240	VALVE, 3 STACK, 2ND MTR SOL	1
8	1-654-010051-05	SCREW, HEX, 3/8-16 UNC X 1 GR5	3
9	1-861-010032-10	WASHER, FLAT, ZP/CD, 3/8N	3
10	1-861-010034-11	WASHER, LKG, HLCL SPR, 3/8	3
11	2062-10-12S	ADAPTER, O-RINGBOSS, 90DEG, 37FLB	2
12	3-360-010072	HANDLE, PLASTIC BLACK	2
13	3-360-010090	HANDLE, PLASTIC RED	1

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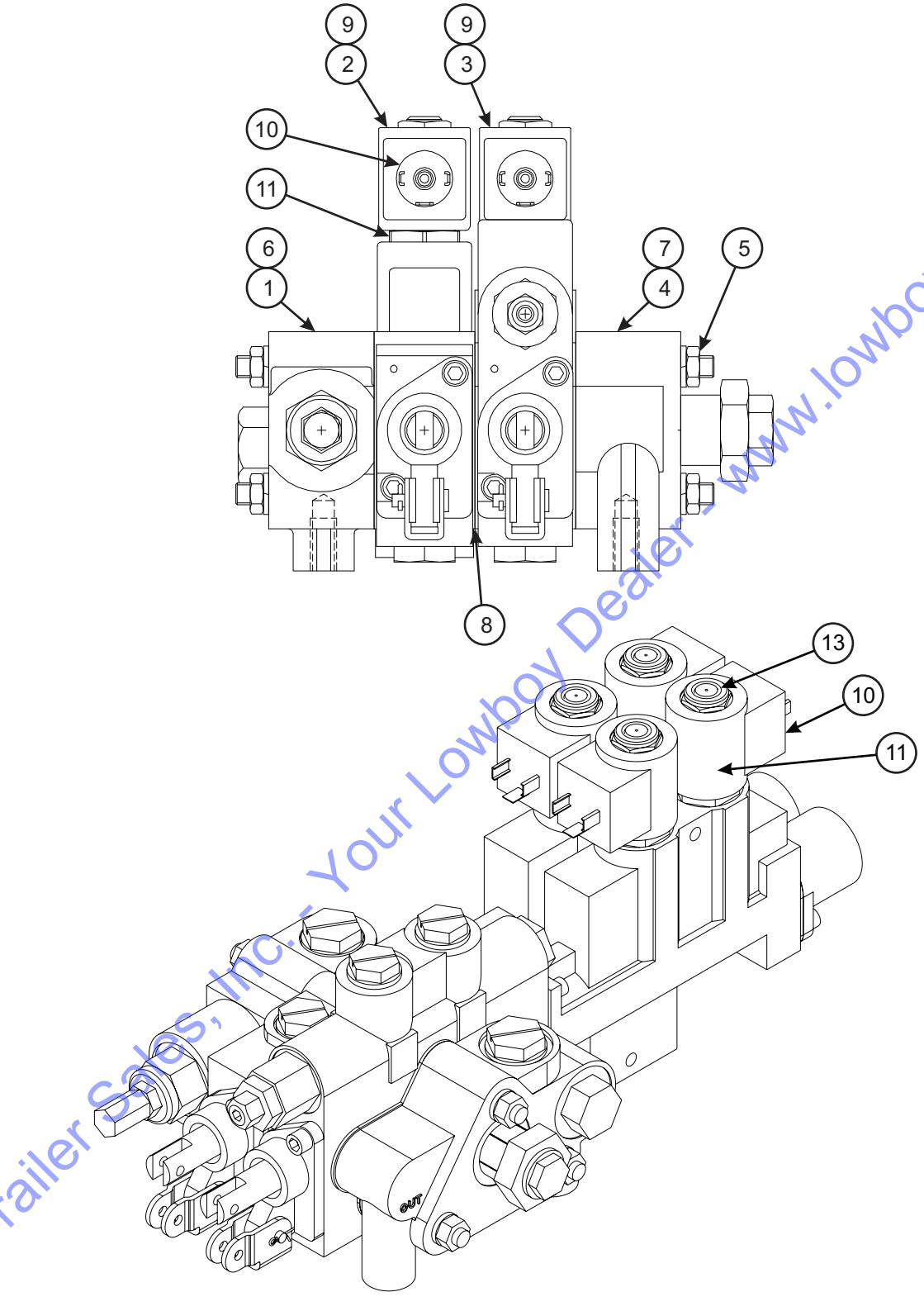


Figure 1-16: Two Stack Solenoid Valve

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Two Stack Solenoid Valve

ITEM	PART NO.	DESCRIPTION	QTY.
	114538	VALVE, 2 STACK SOLENOID	
1	120751	INLET SECTION KIT	
2	143161	VALVE SECTION KIT	
3	143162	VALVE SECTION KIT	
4	142483	OUTLET SECTION KIT	
5	149531	TIEROD KIT	
6	660580002	SEAL KIT FOR INLET SECTION	
7	660580003	SEAL KIT FOR OUTLET SECTION	
8	660580004	O-RING SEAL KIT FOR BETWEEN SECTIONS	
9	660580005	SEAL KIT FOR SOLENOID WORK SECTION	
10	142484	COIL	
11	142485	CARTRIDGE	
12	142486	COIL CARTRIDGE ASSEMBLY **(ITEMS 10 & 11)**	
13	143141	COIL NUT	

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Electrical

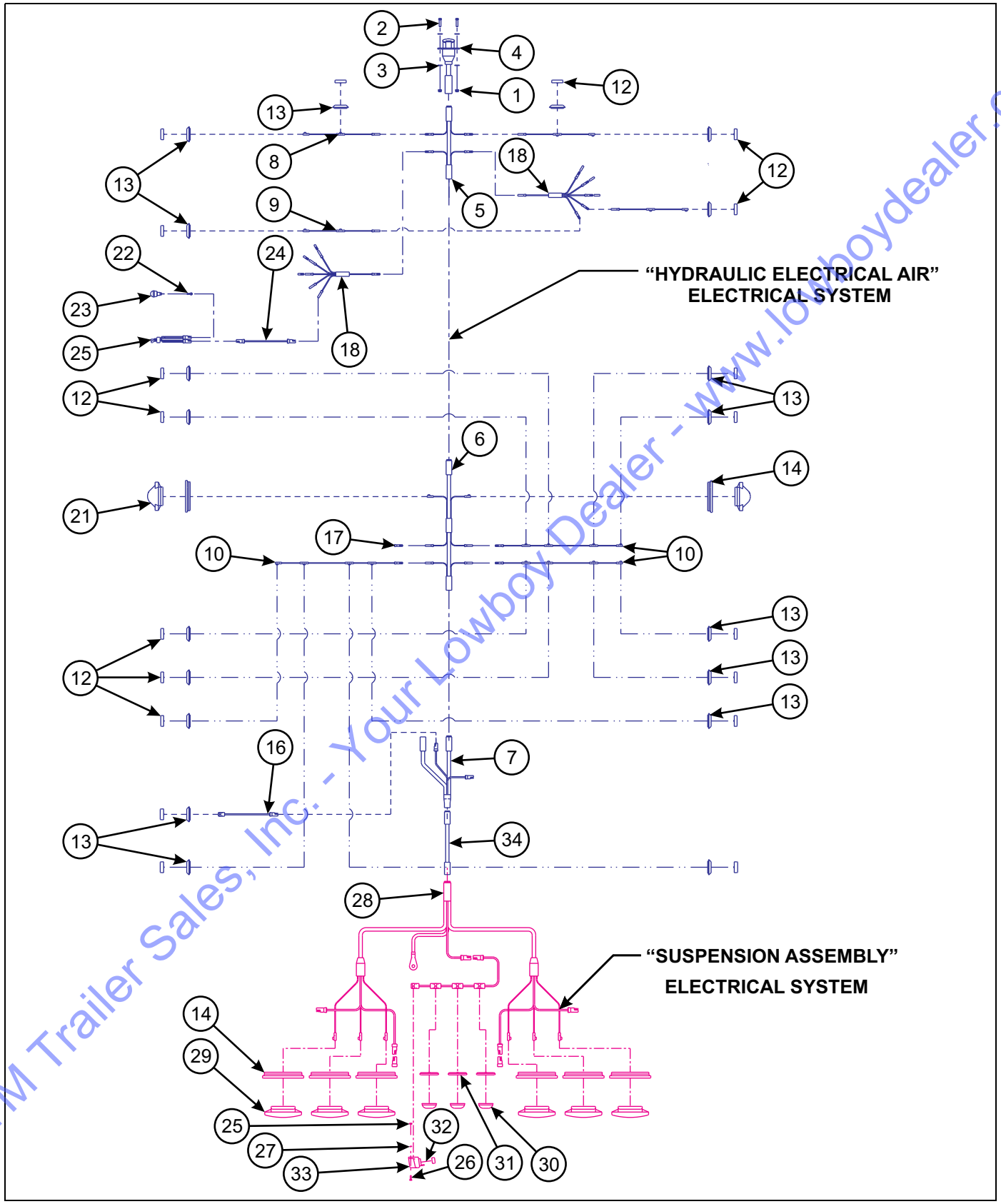


Figure 1-17: Electrical System

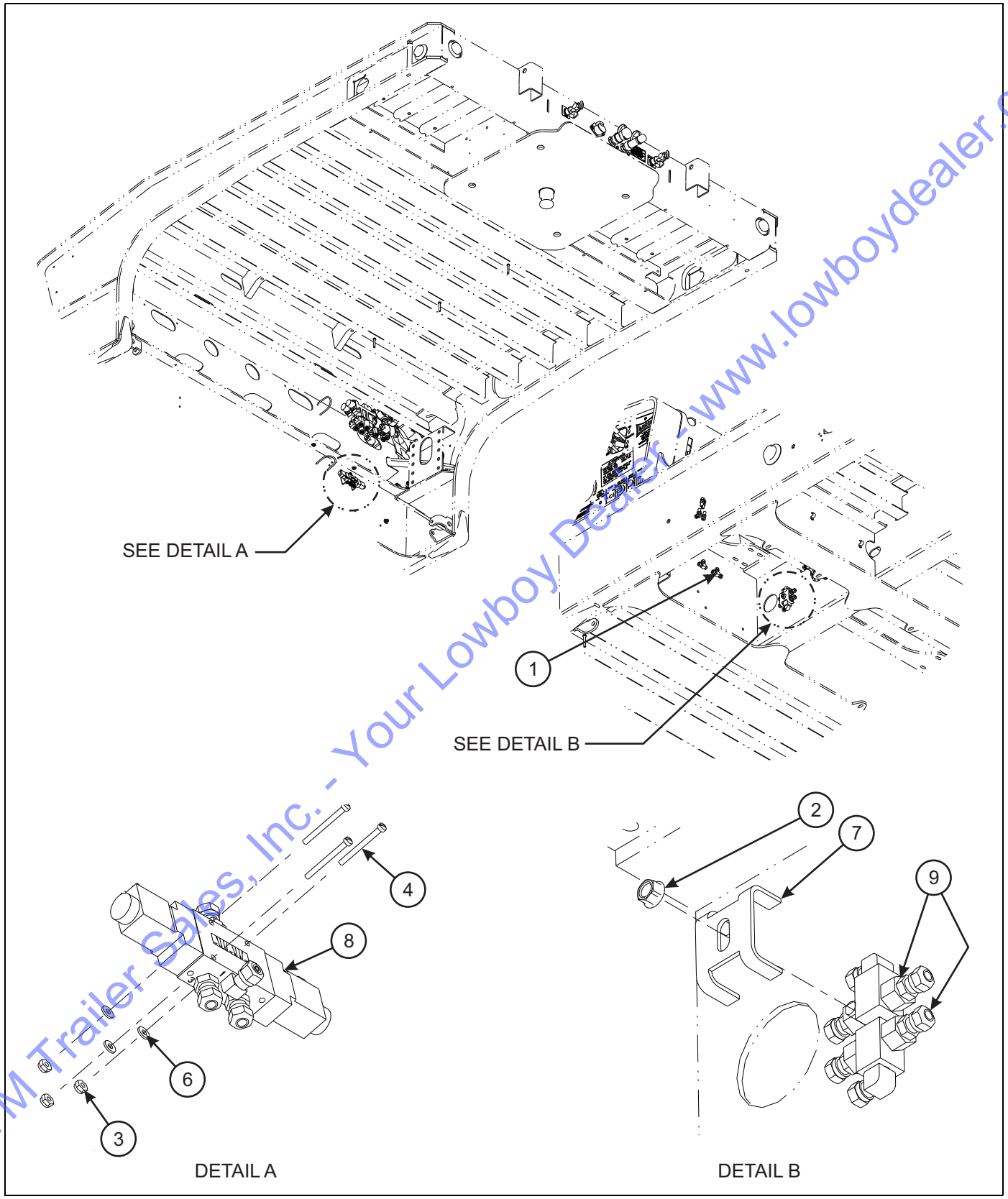
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Electrical System

ITEM	PART NO.	DESCRIPTION		QTY
	174176	HYDRAULIC ELECTRICAL AIR ASSEMBLY	*	
	161886	SUSPENSION ASSEMBLY - 930		*
	164886	SUSPENSION ASSEMBLY - 950		*
1	1-512-010005-03	NUT, HEX LOCK 5/16-18	2	--
2	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1	2	--
3	1-861-010032-09	WASHER, FLAT 5/16W	4	--
4	143100	HARNESS, 7 WAY RECEPTACLE	1	--
5	143101	HARNESS, FRONT MAIN	1	--
6	143102	HARNESS, BED MAIN **(ITEM 17)**	1	--
7	143103	HARNESS, E-CHAIN	REF	1
8	143105	HARNESS, MARKER FRONT CORNER	2	--
9	143106	HARNESS, MARKER FRONT BED	1	--
10	143107	HARNESS, MARKER REAR BED	1	--
11	143108	LIGHT, RED LED 2.5 CL/MARKER	2	--
	171303	LIGHT, RED CLEAR LENS, 2.5 GRT **(ANNIVERSERY EDITION)**	2	--
12	143109	LIGHT, YELLOW LED 2.5 CL/MARKER	8	--
	171302	LIGHT, YELLOW CLEAR LENS, 2.5 GRT **(ANNIVERSERY EDITION)**	8	--
	171305	LIGHT, S/T/T YELLOW CLEAR LENS GRT **(ANNIVERSERY EDITION)**	2	--
13	143110	GROMMET, 2.5 SURFACE MOUNT	11	--
14	143114	GROMMET, OVAL	2	6
15	143119	LIGHT, YELLOW LED ABS	1	--
16	143120	HARNESS, ABS LAMP	1	--
17	143121	DUMMY PLUG, MALE/FEMALE BULLET	REF	--
18	150093	HARNESS, 5 AUX. BRANCHES	1	--
19	150117	SWITCH ASSEMBLY, LIGHT	1	--
20	169410	LIGHT, YELLOW MID TURN	2	--
21	239-3646-5	TERMINAL RING 1/4 X 14AWG	1	--
22	26331	LIGHT, PANEL	1	--
23	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	1	--
24	81264	RUBBER BOOT FOR ELECT SWITCH	1	--
25	1-512-010007-03	NUT, HEX #10-24	--	2
26	1-656-010003051	SCREW, RD HEAD MACH #10-24 X 3/4	--	2
27	1-861-010034-07	WASHER, SPLIT LOCK #10	--	2
28	143104	HARNESS, BUMPER	--	1
29	143113	LIGHT, RED LED OVAL STT	--	6
	179902	LIGHT, S/T/T RED CLEAR LENS GRT **(ANNIVERSERY EDITION)**	--	6
30	143115	LIGHT, RED LED RECTANGLE CLEARANCE	--	3
	171925	LIGHT, RED CLEAR LENS MICRO LENS **(ANNIVERSERY EDITION)**	--	3
31	143116	GROMMET, RECTANGLE	--	3
32	143117	LIGHT, CLEAR LED LICENSE	--	1
33	143118	BRACKET, LIGHT LICENSE	--	1
34	143167	HARNESS EXTENSION 84"	--	1

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Remote Control



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Figure 1-18: Remote Control - General Items

Remote Control - General Items

ITEM	PART NO.	DESCRIPTION	QTY.
	140910**	REMOTE CONTROL - WN/U/L/R	
	144615	REMOTE CONTROL - WN/U/L	
1	1-297-010010-01	FITTING, AIR UNION TEE	REF
2	1-510-010001	NUT, FLANGE LOCK 3/8-16	1
3	1-512-010003-02	NUT, HEX LOCK W/ NYLON #6-32	3
4	1-654-010024014	SCREW, MACH FIL #6-32 X 1-1/2	3
5	1-796-010002-01	TIE, STRAP PLASTIC .14 X 5.50 **(NOT SHOWN)**	5
6	1-861-010032-01	WASHER, FLAT #6	3
7	138814	HOSE CLAMP, NOTCHED	1
8	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	1
9	3-843-010039-02	VALVE, AIR SHUTTLE	**2, 1

** 1ST QUANTITY IS USED WITH P/N - 140910
2ND QUANTITY IS USED WITH P/N - 144615

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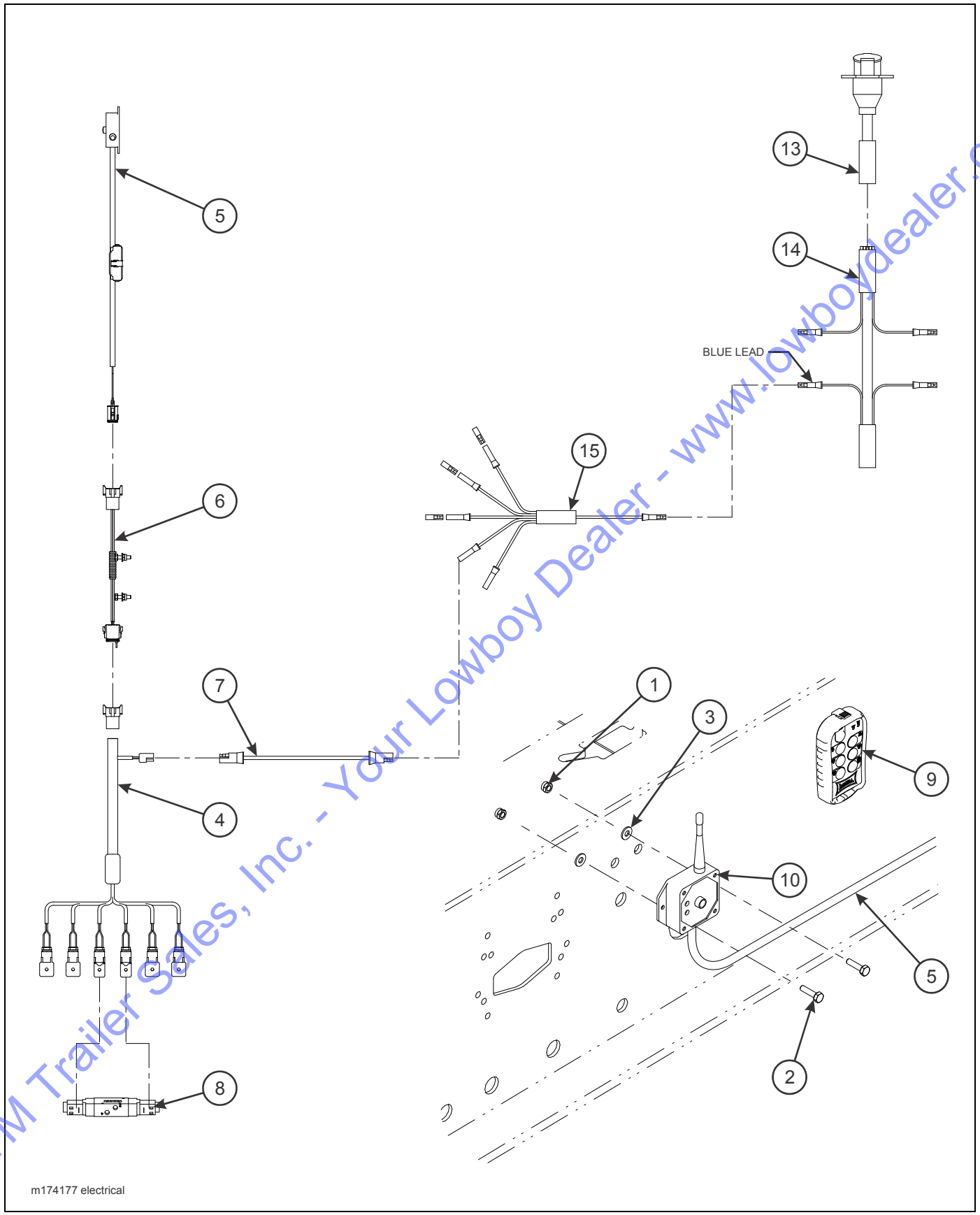


Figure 1-19: Remote Control - Electrical System

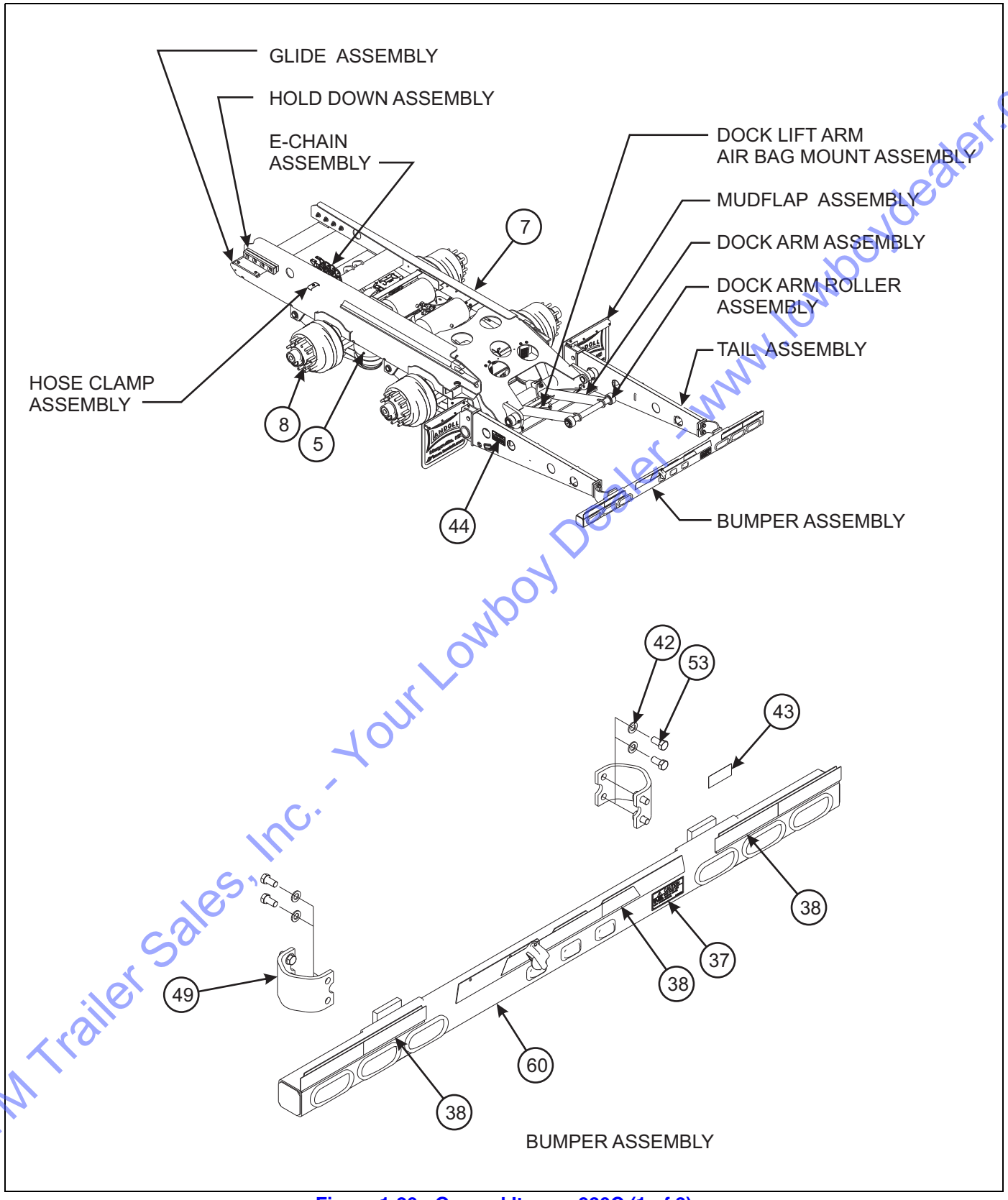
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Remote Control - Electrical System

ITEM	PART NO.	DESCRIPTION	QTY
	140910	REMOTE CONTROL - WN/U/L/R	
	144615	REMOTE CONTROL - WN/U/L	
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	1-861-010032-06	WASHER, FLAT 1/4N	2
4	139767	HARNESS ASSEMBLY	1
5	168649	REMOTE, KAR-TECH SLIDE AX **(INCLUDES TRANSMITTER, RECEIVER, & CHARGER)**	1
6	175584	EXTENSION HARNESS, 3' REMOTE	1
7	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	1
8	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	1
9	168978	MACRO TRANSMITTER W/ DECAL	1
10	175583	MINI AND MACRO RECEIVER, 6 FUNCTION W/ TEACH BUTTON	1
11	168976	CAR CHARGER 12V TO MICRO USB **(NOT SHOWN)**	1
12	168982	WALL CHARGER 120V TO MICRO USB **(NOT SHOWN)**	1
13	143100	HARNESS, 7 WAY RECEPTACLE	REF
14	143101	HARNESS, FRONT MAIN	REF
15	150093	HARNESS, 5 AUX. BRANCHES	REF
16	197460	REPLACEMENT BATTERY, KAR-TECH **(NOT SHOWN)**	1
	143169	FIELD INSTALLATION KIT **(ITEMS 4 & 5)**	

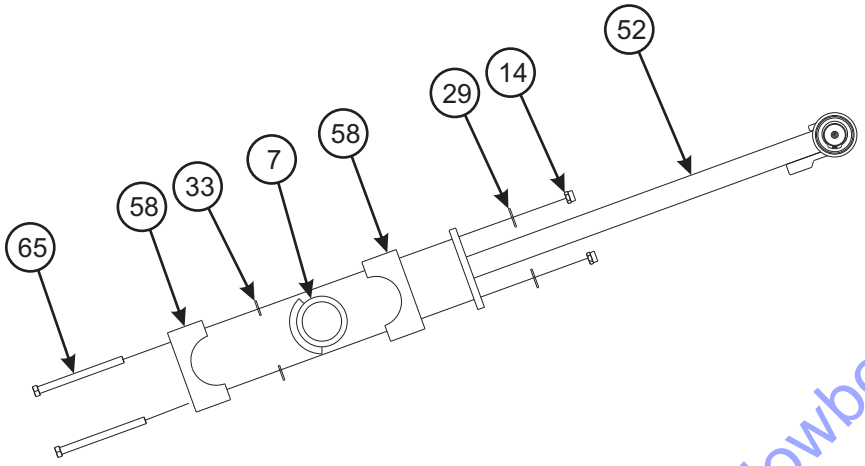
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Undercarriage

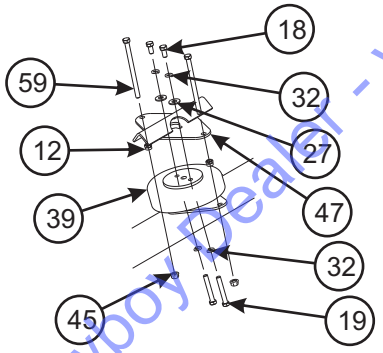


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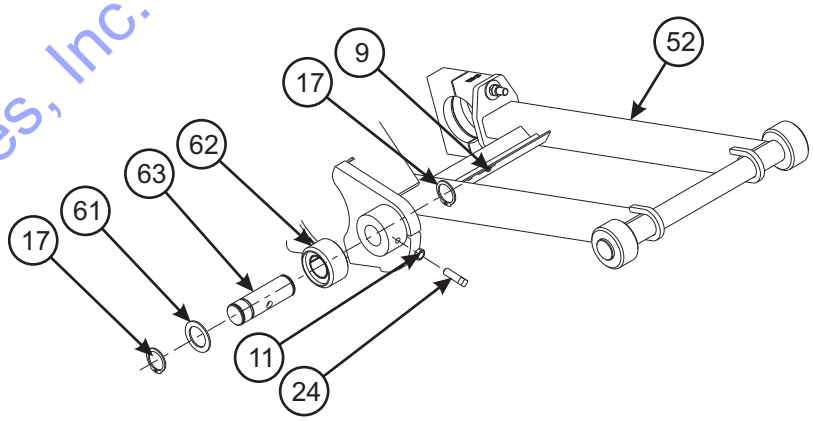
Figure 1-20: General Items - 930C (1 of 3)



DOCK ARM ASSEMBLY



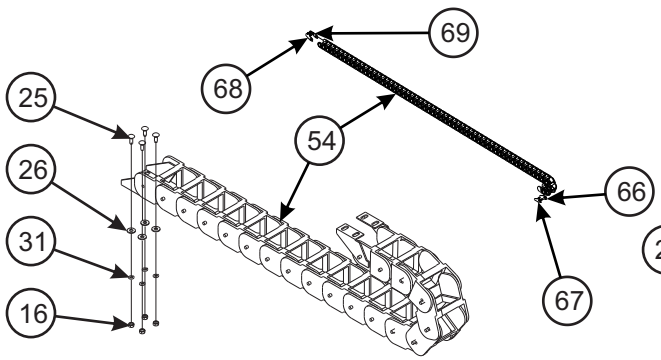
DOCK LIFT ARM
AIR BAG MOUNT ASSEMBLY



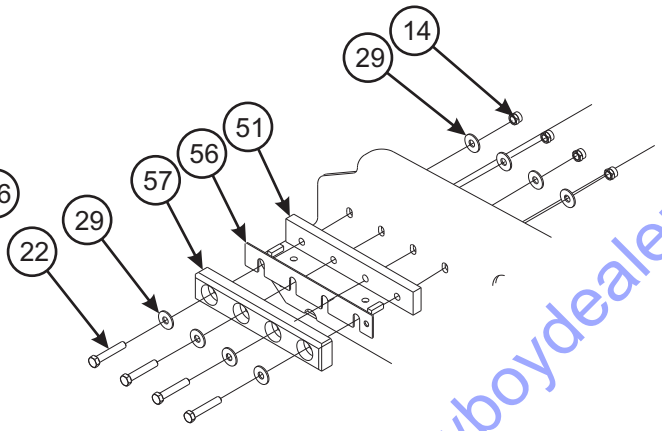
DOCK ARM ROLLER ASSEMBLY

Figure 1-21: General Items - 930C (2 of 3)

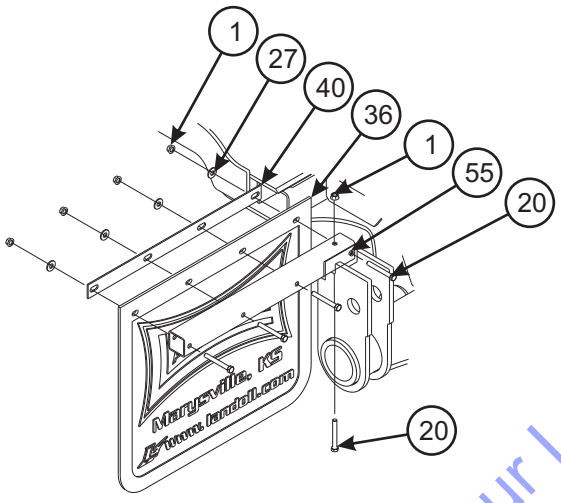
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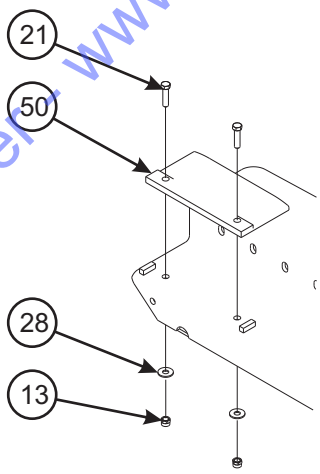
E-CHAIN ASSEMBLY



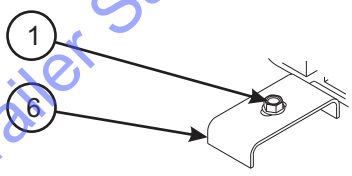
HOLD DOWN ASSEMBLY



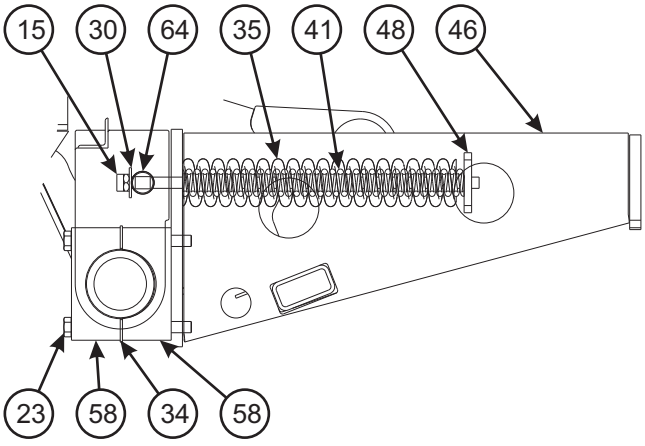
MUD FLAP ASSEMBLY



GLIDE ASSEMBLY



HOSE CLAMP ASSEMBLY



TAIL ASSEMBLY

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Figure 1-22: General Items - 930C (3 of 3)

General Items - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	15
2	1-796-010003-02	TIE STRAP, PLASTIC **(NOT SHOWN)**	2
3	1-796-010004-02	TIE, STRAP, PLASTIC **(NOT SHOWN)**	19
4	1-843-010014	VALVE EXTENSION, STEM **(NOT SHOWN) (SEE PAGE 1-67)**	4
5	102363	SUSPENSION, ADJ RLU-228-3.5 **(SEE PAGE 1-53)** (TRL W/ 17.5" TIRES)	2
	102364	SUSPENSION, ADJ RLU-228-5.5 **(SEE PAGE 1-53)** (TRL W/ 22.5" TIRES)	2
6	103817	CLAMP, HOSE	5
7	113562	UNDERCARRIAGE WELDMENT	1
8	115747	AXLE WELDMENT A/R D2512-SPG 77 **(SEE PAGE 1-63)**	2
	115749	AXLE WELDMENT A/R D2516-SPG 75**(SEE PAGE 1-65)**	2
	136258	AXLE WELDMENT A/R 2512-SPG 77 TIS **(SEE PAGE 1-63)**	2
	139622	AXLE WELDMENT A/R 2516-SPG 75 X 39.5 TIS **(SEE PAGE 1-65)**	2
9	1-298-010001-1	FITTING, GREASE 1/4-28	2
10	1-394-010001	HOSE, ABRASION SLEEVE X 2 **(NOT SHOWN)**	2
11	1-511-010001-07	NUT, HEX JAM 5/8-11	2
12	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
13	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
14	1-512-010005-13**	NUT, HEX LOCK 5/8-11 GRB	REF
15	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
16	1-512-010007-05	NUT, HEX 1/4-20 GRB	4
17	1-630-010021-02	RING, RETAINING 2HD	4
18	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
19	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
20	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
21	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
22	1-654-010059-11**	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	REF
23	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
24	1-654-010150-05	SCREW, SET SQ HD CUP PT 5/8-11 X 2	2
25	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	4
26	1-861-010032-07	WASHER, FLAT 1/4W	4
27	1-861-010032-11	WASHER, FLAT 3/8W	10
28	1-861-010032-15	WASHER, FLAT 1/2W	4
29	1-861-010032-19**	WASHER, FLAT 5/8W	REF
30	1-861-010032-21	WASHER, FLAT 3/4W	2
31	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
32	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
33	2-684-010001	SHIM ROCK SHAFT BEARING	4
34	2-684-010045	SHIM ROCKSHAFT BEARING	4
35	2-720-010008	SPRING	2
36	3-485-010001	MUD FLAP, 21"	2
37	3-573-010031	DECAL, TRAILER BUMPER **(SEE PAGE 1-137)**	1
38	3-573-010377	DECAL, 2" REFLEXITE TAPE RED/WHITE **(SEE PAGE 1-137)**	AR
39	3-720-010042	SPRING AIR 6-1/2	1
40	3-762-010017	CLAMP, MUD FLAP	2
41	8-720-010013	SPRING, COMPRESSION REEL - 14' & 15' TAIL TRAILERS	2
42	622-3511-008	WASHER, 3/4N	8
43	103055	DECAL, ENERGY BUMPER CERT **(SEE PAGE 1-137)**	1

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General Items - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
44	103056	DECAL, ENERGY BUMPER WARNING **(SEE PAGE 1-137)**	1
45	107470	NUT, FLANGE HEAD SPIRALOCK 3/8-16	2
46	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
47	107588	PLATE WELDMENT LIFT GUIDE	1
48	107591	ROD WELDMENT SPRING TENSION BUMPER	2
49	107594	MOUNT BUMPER ENERGY PAK	2
50	107621	GLIDE, U/C	REF
51	107622	BLOCK MOUNTING NYLATRON HOLDOWN	2
52	107732	DOCK LIFT ARM WELDMENT	1
53	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR8	8
54	108724	SUPPORT E-CHAIN - 18 LINKS **(BEFORE 6-3-2015)**	1
	----	E-CHAIN LINK (38-06-075-0) **(BEFORE 6-3-2015)**	18
	189320	SUPPORT, E-CHAIN, 18 LINKS, 3838 **(AFTER 6-3-2015)**	1
55	108746	BRACKET, MUD FLAP	2
56	108749	SHIM, NYLATRON BLOCK	REF
57	109138	NYLATRON HOLD-DOWN BLOCK	REF
58	109158	BEARING CAST BUMPER PIVOT	8
59	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THREAD	2
60	109524	BUMPER WELDMENT L TAIL	1
61	114562	BUSHING, MACHINE HARD 3 X 2 X 10 GA	4
62	135613	ROLLER 4" ASSEMBLY CONNEX	4
63	135615	PIN ROLLERS REAR	2
64	142457	PIN, SPRING BUMPER	2
65	171892	SCREW, HEX HEAD CAP 5/8-11 X 9 GR5	4
66	190701	BRACKET WLDMT, E-CHAIN LH **(AFTER 6-3-2015)**	1
67	190706	BRACKET WLDMT, E-CHAIN RH **(AFTER 6-3-2015)**	1
68	190700ZP	BRACKET, E-CHAIN LH **(AFTER 6-3-2015)**	1
69	190705ZP	BRACKET, E-CHAIN RH **(AFTER 6-3-2015)**	1
	189378	FIELD INSTALLATION KIT **(ITEMS 54 & 66-69)**	1
	125837	ROLLER AND PIN KIT **(ITEMS 9, 17, 61 & 62)**	1
	135837	ROLLER AND PIN KIT **(ITEMS 9, 17, 61 & 62)**	1

NOTE: ** THESE PARTS ARE ALSO USED ON UNDERCARRIAGE

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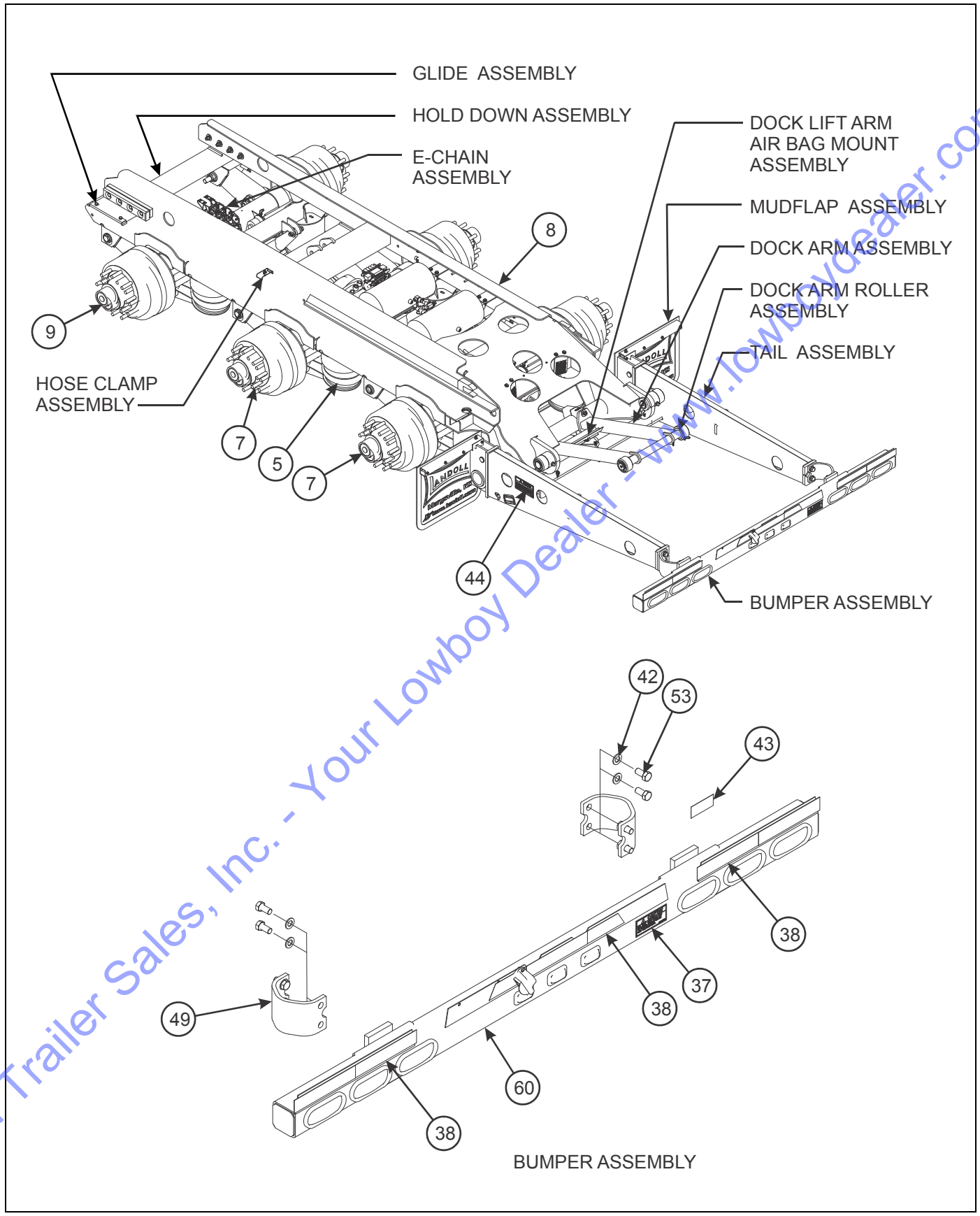
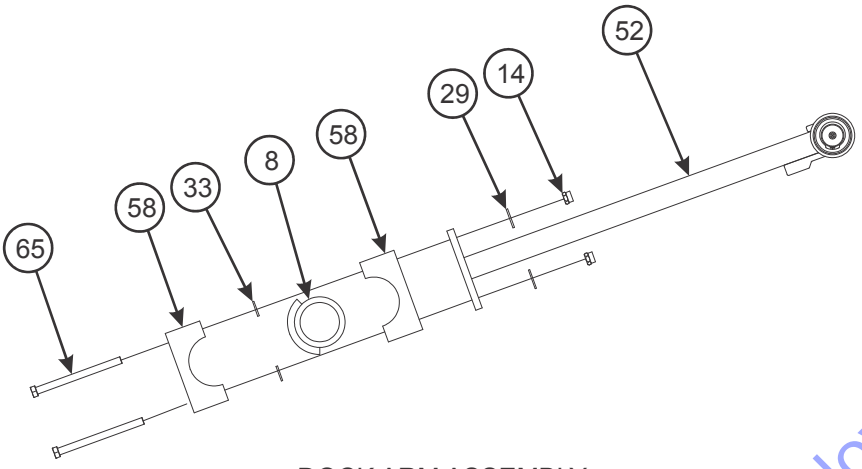
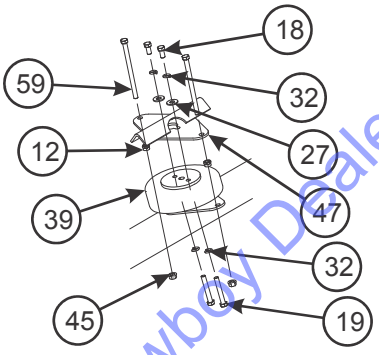


Figure 1-23: General Items - 950C (1 of 3)

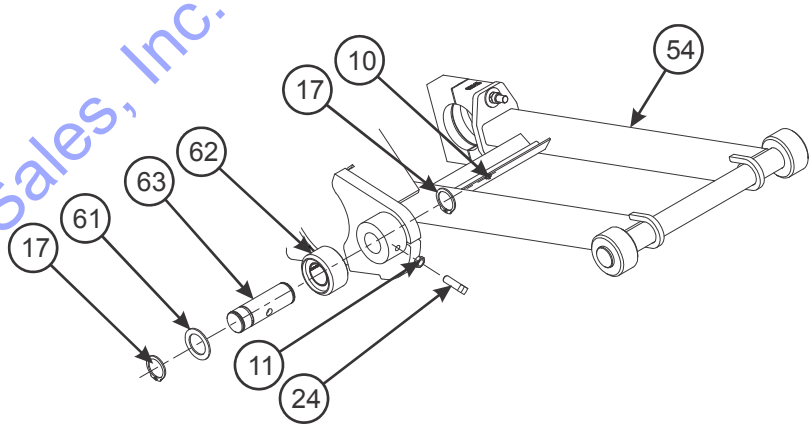
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DOCK ARM ASSEMBLY



DOCK LIFT ARM
AIR BAG MOUNT ASSEMBLY

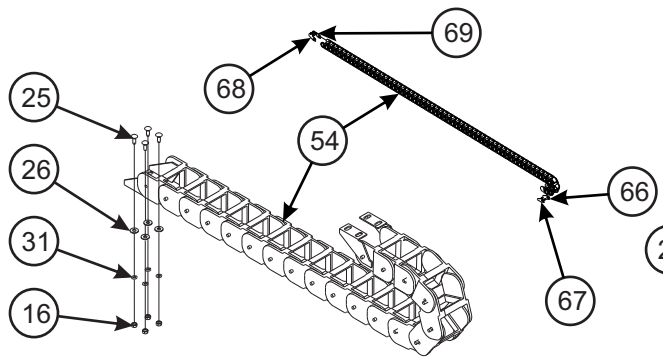


m164886 uc assembly p2

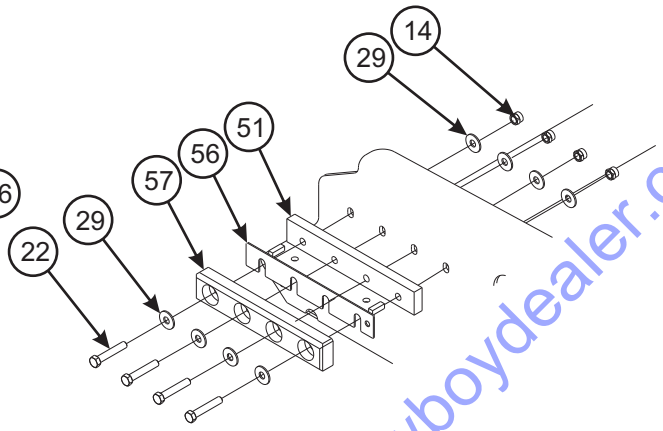
DOCK ARM ROLLER ASSEMBLY

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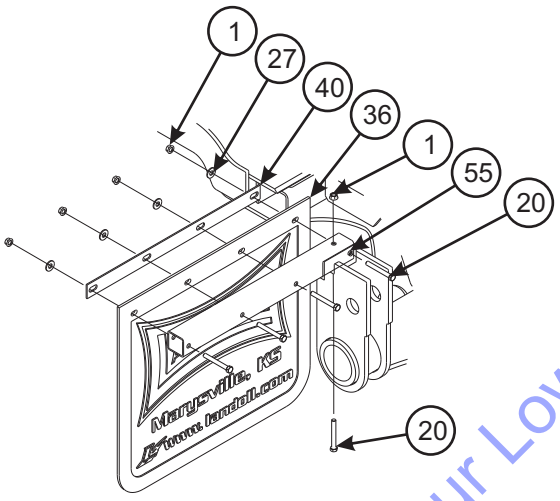
Figure 1-24: General Items - 950C (2 of 3)



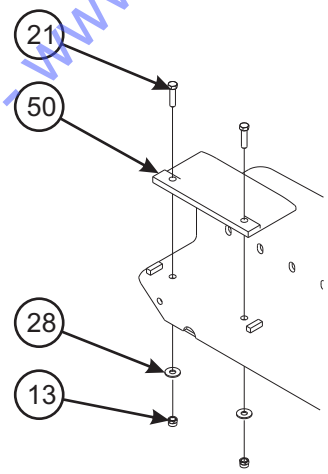
E-CHAIN ASSEMBLY



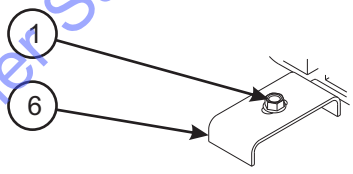
HOLD DOWN ASSEMBLY



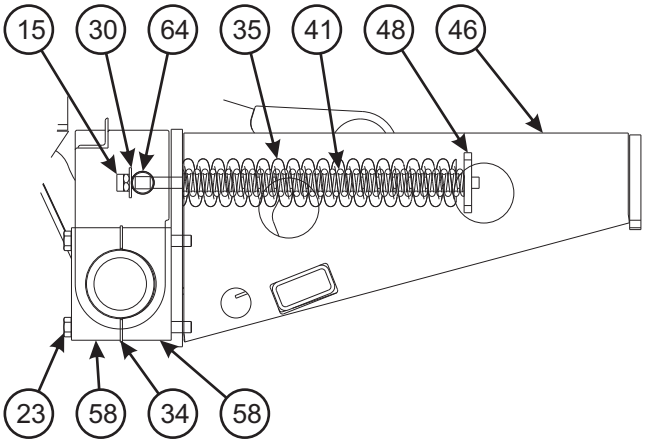
MUD FLAP ASSEMBLY



GLIDE ASSEMBLY



HOSE CLAMP ASSEMBLY



TAIL ASSEMBLY

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Figure 1-25: General Items - 950C (3 of 3)

General Items - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	15
2	1-796-010003-02	6TIE STRAP, PLASTIC (NOT SHOWN)	2
3	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	19
4	1-843-010014	VALVE EXTENSION, STEM **(NOT SHOWN) (SEE PAGE 1-67)**	6
5	102363	SUSPENSION ADJ RLU-228-3.5 **(SEE PAGE 1-53) (TRL W/ 17.5" TIRES)**	3
	102364	SUSPENSION ADJ RLU-228-5.5 **(SEE PAGE 1-53) (TRL W/ 22.5" TIRES)**	3
6	103817	CLAMP, HOSE	5
7	115747	AXLE WELDMENT A/R D2512-SPG 77 X 39.5 **(SEE PAGE 1-63) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*2, 3
	115749	AXLE WELDMENT A/R D2516-SPG 75 X 39.5 **(SEE PAGE 1-65) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*2, 3
	136258	AXLE WELDMENT A/R 2512-SPG 77 X 39.5 TIS **(SEE PAGE 1-63) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*2, 3
	139622	AXLE WELDMENT A/R 2516-SPG 75 X 39.5 TIS **(SEE PAGE 1-65) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*2, 3
8	117844	UNDERCARRIAGE WELDMENT	1
9	115748	AXLE WELDMENT A/R D2512 SER 77 X 39.5 **(SEE PAGE 1-63) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*1,0
	115750	AXLE WELDMENT A/R D2516-SER 75 X 39.5 **(SEE PAGE 1-65 (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*1,0
	138201	AXLE WELDMENT A/R 2512-SER 77 X 39.5 TIS **(SEE PAGE 1-63) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*1,0
	168547	AXLE WELDMENT A/R D2516-SER 75 X 39.5 **(SEE PAGE 1-65) (*1ST QTY USED BEFORE 6-3-2015) (2ND QTY AFTER 6-3-2015)**	*1,0
10	1-298-010001-1	FITTING, GREASE 1/4-28	2
11	1-511-010001-07	NUT, HEX JAM 5/8-11	2
12	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	2
13	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
14	1-512-010005-13**	NUT, HEX LOCK 5/8-11 GRB	REF
15	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
16	1-512-010007-05	NUT, HEX 1/4-20 GRB	4
17	1-630-010021-02	RING, RETAINING 2HD	4
18	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
19	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
20	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
21	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
22	1-654-010059-11**	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	REF
23	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
24	1-654-010150-05	SCREW, SET SQ HD CUP PT 5/8-11 X 2	2
25	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	4
26	1-861-010032-07	WASHER, FLAT 1/4W	4
27	1-861-010032-11	WASHER, FLAT 3/8W	10
28	1-861-010032-15	WASHER, FLAT 1/2W	4
29	1-861-010032-19**	WASHER, FLAT 5/8W	REF
30	1-861-010032-21	WASHER, FLAT 3/4W	2
31	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4

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General Items - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
32	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
33	2-684-010001	SHIM ROCK SHAFT BEARING	4
34	2-684-010045	SHIM ROCKSHAFT BEARING	4
35	2-720-010008	SPRING	2
36	3-485-010001	MUD FLAP, 21"	2
37	3-573-010031	DECAL, TRAILER BUMPER **(SEE PAGE 1-137)**	1
38	3-573-010377	DECAL, 2" REFLEXITE TAPE RED/WHITE **(SEE PAGE 1-137)**	AR
39	3-720-010042	SPRING AIR 6-1/2	1
40	3-762-010017	CLAMP, MUD FLAP	2
41	8-720-010013	SPRING, COMPRESSION REEL **(14' AND 15' TAIL TRAILERS)**	2
42	622-3511-008	WASHER, 3/4N	8
43	103055	DECAL, ENERGY BUMPER CERT **(SEE PAGE 1-137)**	1
44	103056	DECAL, ENERGY BUMPER WARNING **(SEE PAGE 1-137)**	1
45	107470	NUT, FLANGE HEAD SPIRALOCK 3/8-16	2
46	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
47	107588	PLATE WELDMENT LIFT GUIDE	1
48	107591	ROD WELDMENT SPRING TENSION BUMPER	2
49	107594	MOUNT BUMPER ENERGY PAK	2
50	107621	GLIDE, U/C	2
51	107622	BLOCK MOUNTING NYLATRON HOLDOWN	REF
52	107732	DOCK LIFT ARM WELDMENT	1
53	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR8	8
54	108724	SUPPORT E-CHAIN - 18 LINKS **(BEFORE 6-3-2015)**	1
	----	E-CHAIN LINK (38-06-075-0) **(BEFORE 6-3-2015)**	18
	189319	SUPPORT, E-CHAIN, 23 LINKS, 3838 **(AFTER 6-3-2015)**	
55	108746	BRACKET, MUD FLAP	2
56	108749	SHIM, NYLATRON BLOCK	REF
57	109138	NYLATRON HOLD-DOWN BLOCK	REF
58	109158	BEARING CAST BUMPER PIVOT	8
59	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THREAD	2
60	109524	BUMPER WELDMENT L TAIL	1
61	114562	BUSHING, MACHINE HARD 3 X 2 X 10 GA	4
62	135613	ROLLER 4" ASSEMBLY CONNEX	4
63	135615	PIN ROLLERS REAR	2
64	142457	PIN, SPRING BUMPER	2
65	171892	SCREW, HEX HEAD CAP 5/8-11 X 9 GR5	4
66	190701	BRACKET WLDMT, E-CHAIN LH **(AFTER 6-3-2015)**	
67	190706	BRACKET WLDMT, E-CHAIN RH **(AFTER 6-3-2015)**	
68	190700ZP	BRACKET, E-CHAIN LH **(AFTER 6-3-2015)**	
69	190705ZP	BRACKET, E-CHAIN RH **(AFTER 6-3-2015)**	
	189379	FIELD INSTALLATION KIT **(ITEMS 54 & 66-69)**	1
	125838	ROLLER & PIN KIT **(ITEMS 10, 17, 61-63)**	1

** THESE PARTS ARE ALSO USED ON UNDERCARRIAGE

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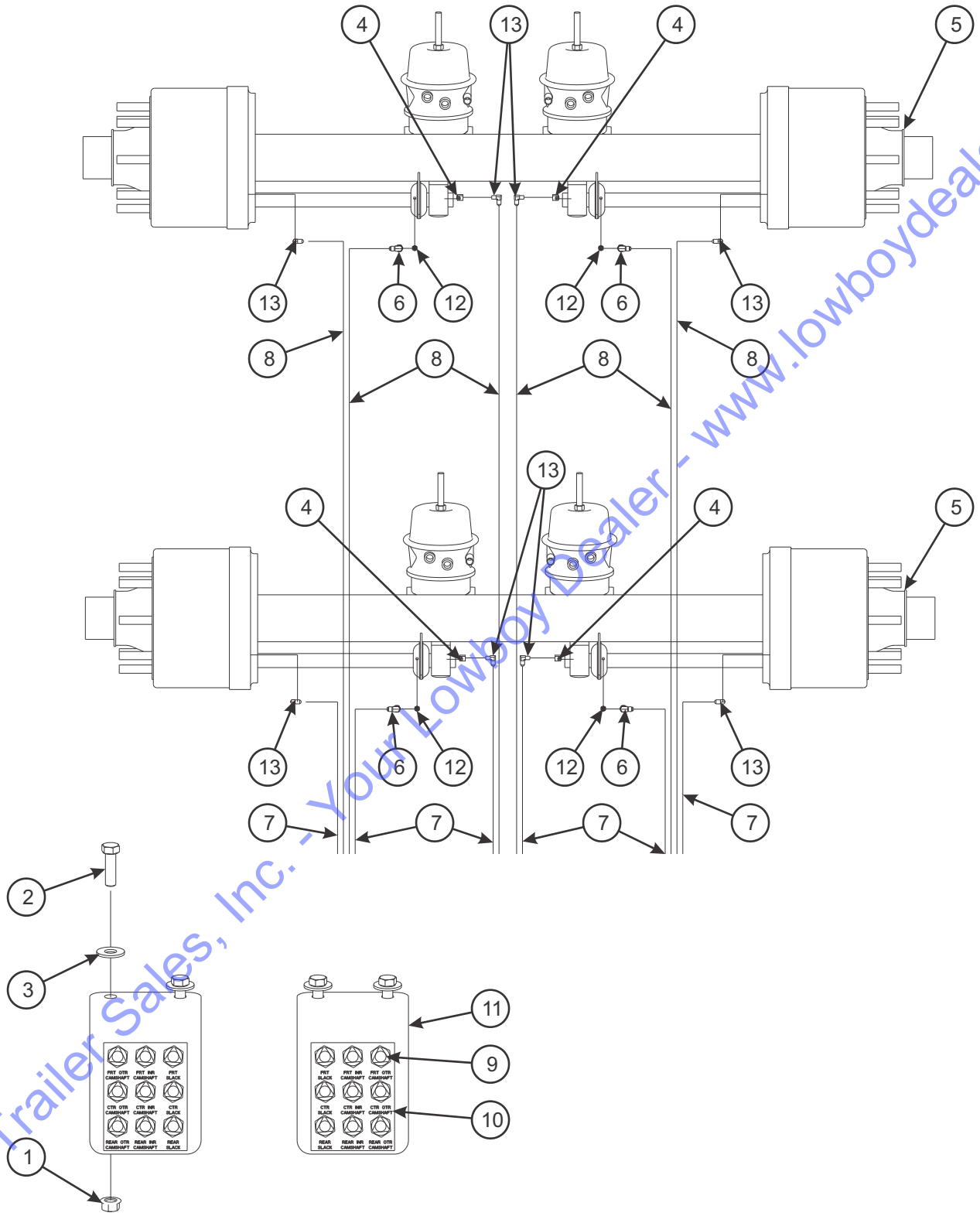


Figure 1-26: Grease System - 930C

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Grease System - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010001	NUT, FLG HD, SERR, 3/8-16 UNC	4
2	1-654-010051-06	SCREW, HEX HEAD CAP, 3/8-16 X 1-1/4 GR5	4
3	1-861-010032-11	WASHER, FLAT 3/8W	4
4	101528	ELBOW, BRASS PIPE STREET	4
5	-----	AXLE WELDMENT A/R D2512-SPG 77 **(SEE PAGE 1-63)**	REF
6	138155	ADAPTER, 90	4
7	142441	HOSE ASSEMBLY GREASE 1/4 X 45	6
8	142445	HOSE ASSEMBLY, GREASE 1/4 X 102	6
9	142545	NUT, HEX JAM LOCK, 7/16-20	12
10	142553	DECAL, GREASE U/C **(SEE PAGE 1-137)**	2
11	143649	BRACKET, BULKHEAD GREASE LINE	2
12	161797	ADAPTER, STRAIGHT	4
13	2024-2-4S	ADAPTER, ELBOW	12

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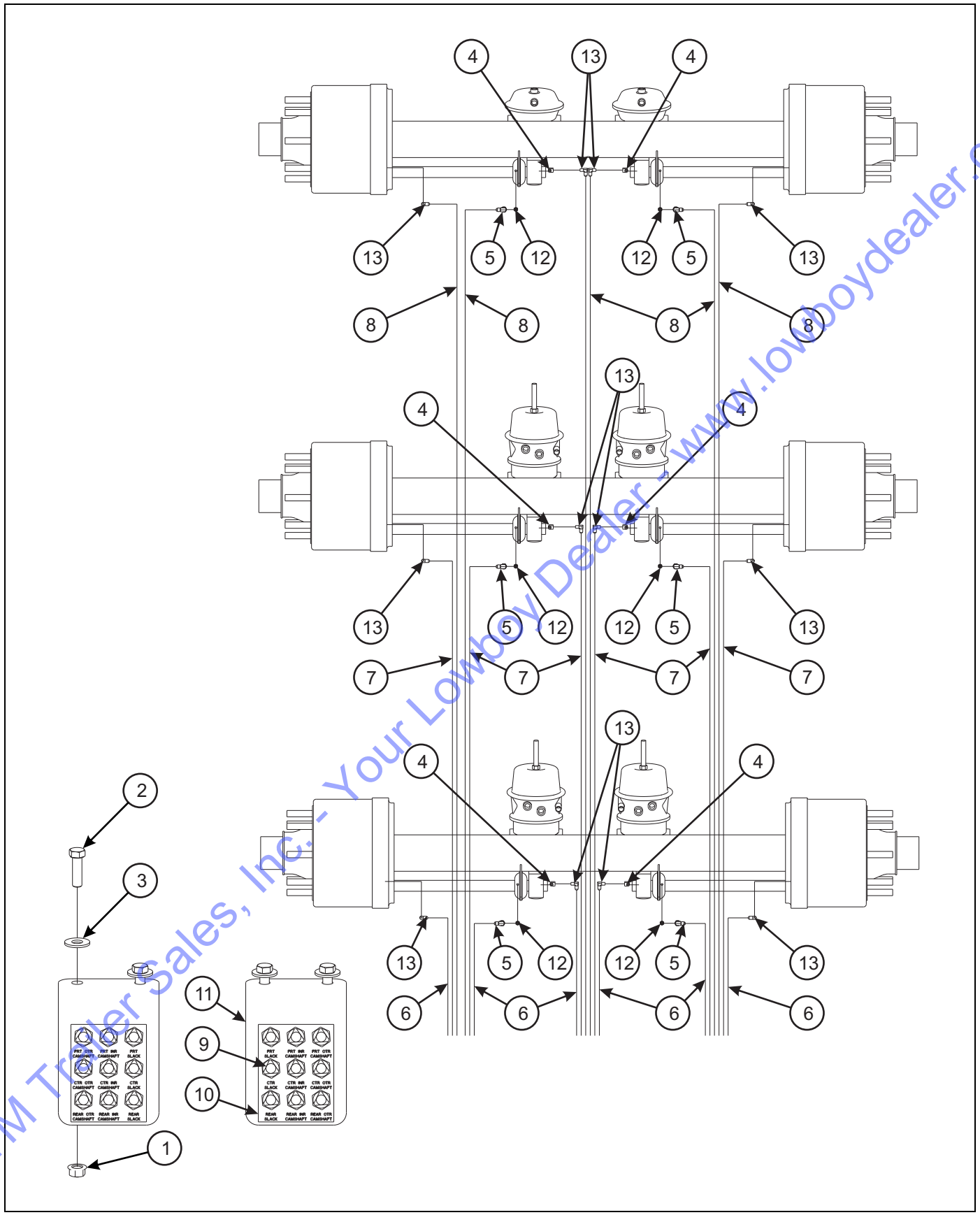


Figure 1-1: Grease System - 950C

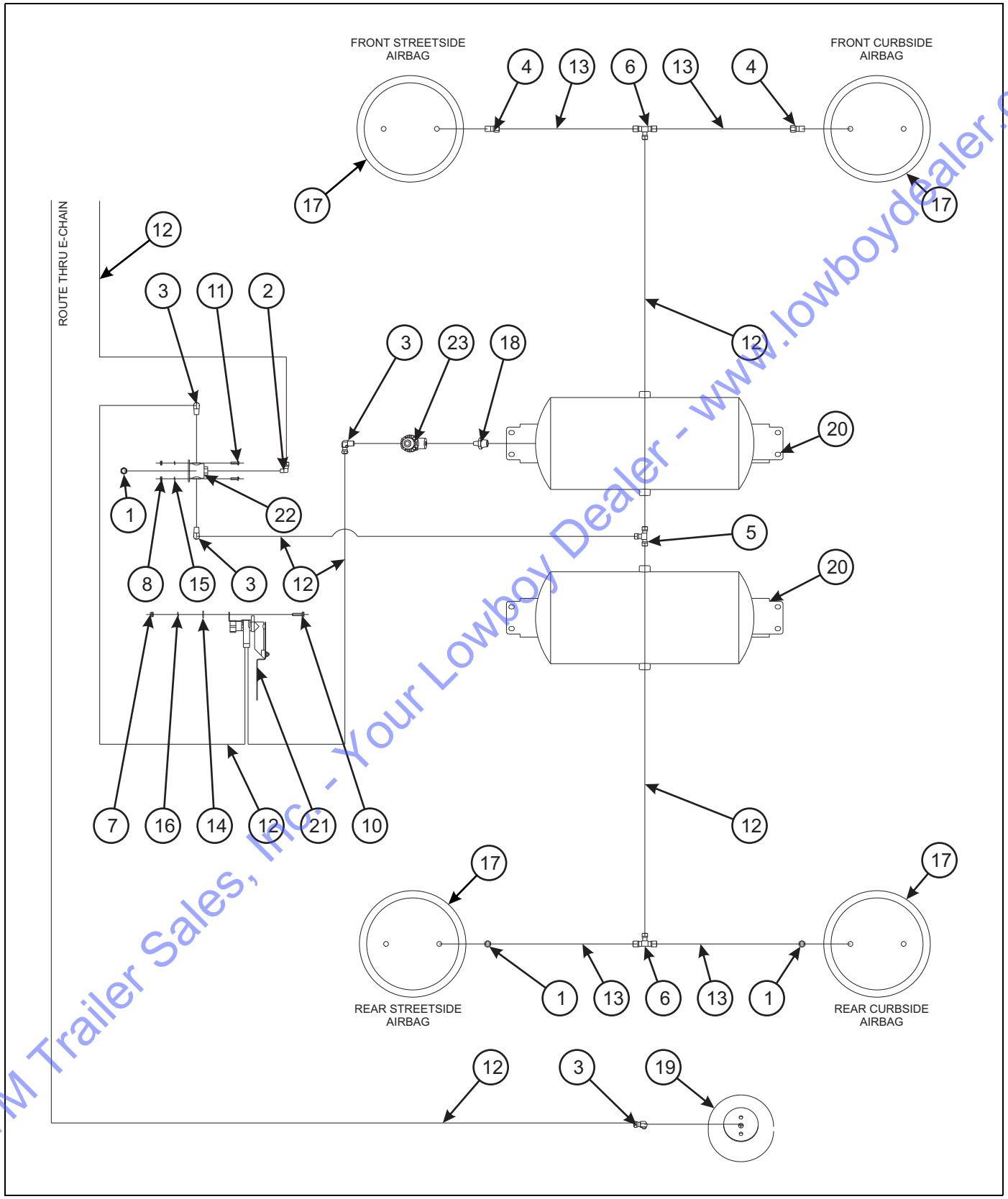
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Grease System - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
3	1-861-010032-11	WASHER, FLAT 3/8W	4
4	101528	ELBOW, BRASS PIPE STREET	6
5	138155	ADAPTER, 90	6
6	142441	HOSE ASSEMBLY GREASE 1/4 X 45	6
7	142445	HOSE ASSEMBLY, GREASE 1/4 X 102	6
8	142452	HOSE ASSEMBLY, GREASE 1/4 X 162	6
9	142545	NUT, HEX JAM LOCK 7/16-20	18
10	142553	DECAL, GREASE U/C **(SEE PAGE 1-137)**	2
11	143649	BRACKET, BULKHEAD GREASE LINE	2
12	161797	ADAPTER, STRAIGHT	6
13	2024-2-4S	ADAPTER, ELBOW	12

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Suspensions



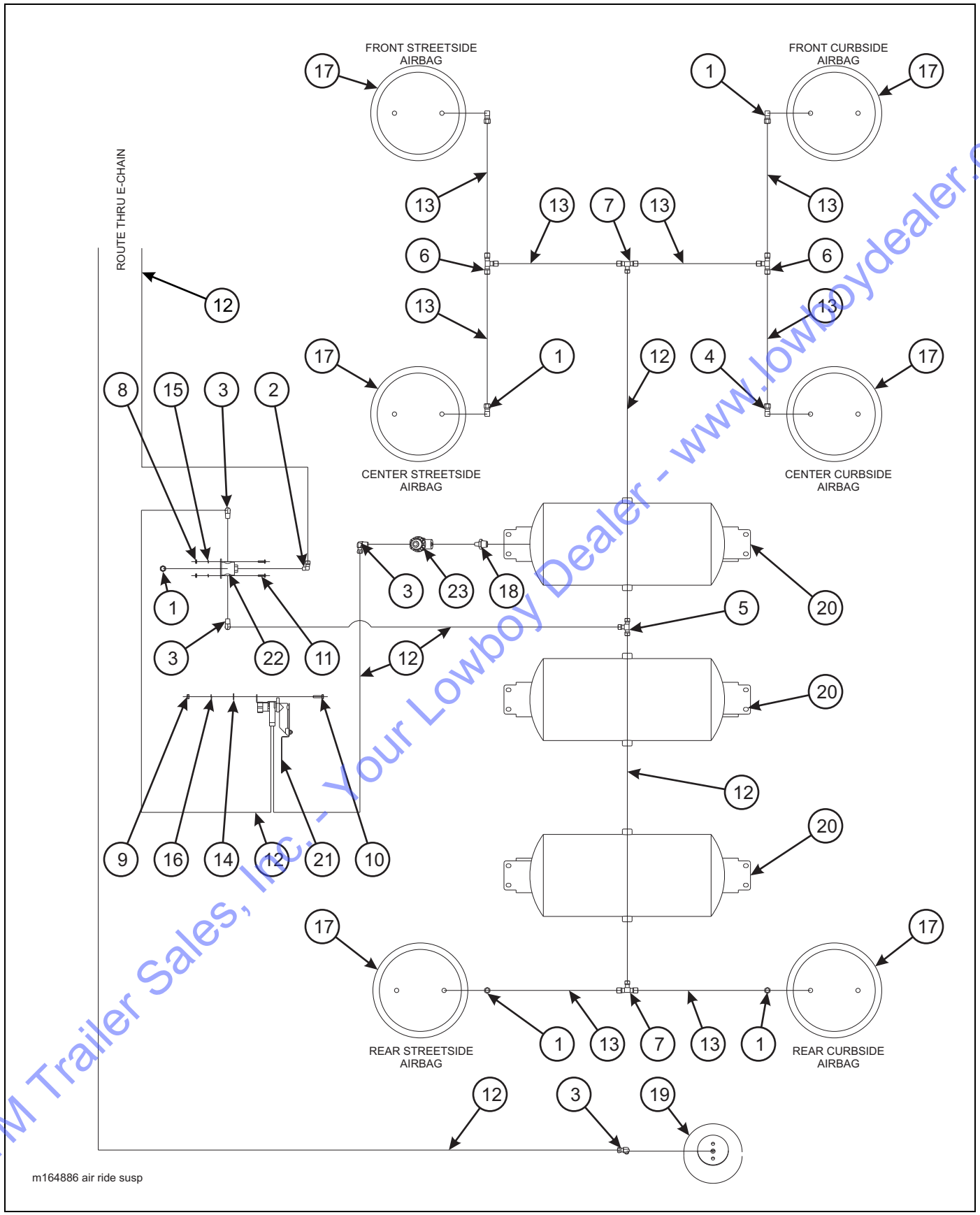
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Figure 1-27: Air Ride Suspension - 930C

Air Ride Suspension - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
	144631	SUSPENSION, 930 - 12, 2512-77 GROTE	
	144633	SUSPENSION, 930 - 12, 2516-75 GROTE	
	144635	SUSPENSION, 930 - 14, 2512-77 GROTE	
	144637	SUSPENSION, 930 - 14, 2516-75 GROTE	
	144639	SUSPENSION, 930 - 15, 2512-77 GROTE	
	144641	SUSPENSION, 930 - 15, 2512-75 GROTE	
	148915	SUSPENSION, 930 - 15RSS, 2512-77 GROTE	
	144632	SUSPENSION, 930 - 12, 2512-77 GROTE - TIS	
	144634	SUSPENSION, 930 - 12, 2516-75 GROTE - TIS	
	144636	SUSPENSION, 930 - 14, 2512-77 GROTE - TIS	
	144638	SUSPENSION, 930 - 14, 2516-75 GROTE - TIS	
	144640	SUSPENSION, 930 - 15, 2512-77 GROTE - TIS	
	144642	SUSPENSION, 930 - 15, 2512-75 GROTE - TIS	
	148918	SUSPENSION, 930 - 15RSS, 2512-77 GROTE - TIS	
1	1-297-010007-11	FITTING, AIR	3
2	1-297-010008-05	FITTING, AIR 90	1
3	1-297-010008-07	FITTING, AIR 90	4
4	1-297-010008-18	FITTING, AIR 90	2
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-297-010010-04	FITTING, AIR UNION TEE	2
7	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
8	1-512-010007-03	NUT, HEX 10-24	4
10	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
11	1-656-010003051	SCREW, RH HD MACH #10-24 X 3/4	4
12	1-833-010001	TUBING, NYLON 1/4 OD	AR
13	1-833-010002	TUBING, NYLON 3/8 OD	AR
14	1-861-010032-07	WASHER, FLAT 1/4W	2
15	1-861-010034-07	WASHER, SPLIT LOCK #10	4
16	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2
17	102363	SUSPENSION, ADJ RLU-228-3.5 **(SEE PAGE 1-53) (USED ON TRAILERS W/ 17.5" TIRES)**	REF
	102364	SUSPENSION, ADJ RLU-228-5.5 **(SEE PAGE 1-53) (USED ON TRAILERS W/ 22.5" TIRES)**	REF
18	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
19	3-720-010042	SUSPENSION, AIR BAG	REF
20	3-780-010002	TANK, AIR	REF
21	900 54 007	HEIGHT CONTROL VALVE	REF
22	900-54-079	PILOT VALVE **(SEE PAGE 1-51)**	REF
23	905-54-107	BRAKE PROTECTION VALVE	REF
24	102732	AIR CONTROL KIT **(ITEMS 21 & 23) (SEE PAGE 1-50)**	1
25	109177	CONTROL KIT AIR SUSPENSION LOWER **(ITEM 22)**	1

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Figure 1-28: Air Ride Suspension - 950C

Air Ride Suspension - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
	144643	SUSPENSION, 950 12, 2512-77 GROTE	
	144645	SUSPENSION, 950 12, 2516-75 GROTE	
	144647	SUSPENSION, 950 14, 2512-77 GROTE	
	144649	SUSPENSION, 950 14, 2516-75 GROTE	
	144651	SUSPENSION, 950 15, 2512-77 GROTE	
	144653	SUSPENSION, 950 15, 2516-75 GROTE	
	144644	SUSPENSION, 950 12, 2512-77 GROTE - TIS	
	144646	SUSPENSION, 950 12, 2516-75 GROTE - TIS	
	144648	SUSPENSION, 950 14, 2512-77 GROTE - TIS	
	144650	SUSPENSION, 950 14, 2516-75 GROTE - TIS	
	144652	SUSPENSION, 950 15, 2512-77 GROTE - TIS	
	144654	SUSPENSION, 950 15, 2516-75 GROTE - TIS	
1	1-297-010007-11	FITTING, AIR	3
2	1-297-010008-05	FITTING, AIR 90	1
3	1-297-010008-07	FITTING, AIR 90	4
4	1-297-010008-18	FITTING, AIR 90	4
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-297-010010-03	FITTING, AIR UNION TEE 3/8	2
7	1-297-010010-04	FITTING, AIR UNION TEE	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-512-010007-05	NUT, HEX 1/4-20	2
10	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
11	1-656-010003051	SCREW, RH HD MACH #10-24 X 3/4	4
12	1-833-010001	TUBING, NYLON 1/4 OD	AR
13	1-833-010002	TUBING, NYLON 3/8 OD	AR
14	1-861-010032-07	WASHER, FLAT 1/4W	2
15	1-861-010034-07	WASHER, SPLIT LOCK #10	4
16	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2
17	102363	SUSPENSION, ADJ RLU-228-3.5 **(SEE PAGE 1-53)** (USED ON TRAILERS W/ 17.5" TIRES)	3
	102364	SUSPENSION, ADJ RLU-228-5.5 **(SEE PAGE 1-53)** (USED ON TRAILERS W/ 22.5" TIRES)	3
18	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
19	3-720-010042	SUSPENSION, AIR BAG	REF
20	3-780-010002	TANK, AIR	REF
21	900 54 007	HEIGHT CONTROL VALVE	REF
22	900-54-079	PILOT VALVE **(SEE PAGE 1-51)**	REF
23	905-54-107	BRAKE PROTECTION VALVE **(**	REF
24	102732	AIR CONTROL KIT **(ITEMS 21 & 23) (SEE PAGE 1-50)**	1
25	109177	CONTROL KIT AIR SUSPENSION LOWER **(ITEM 22)**	1

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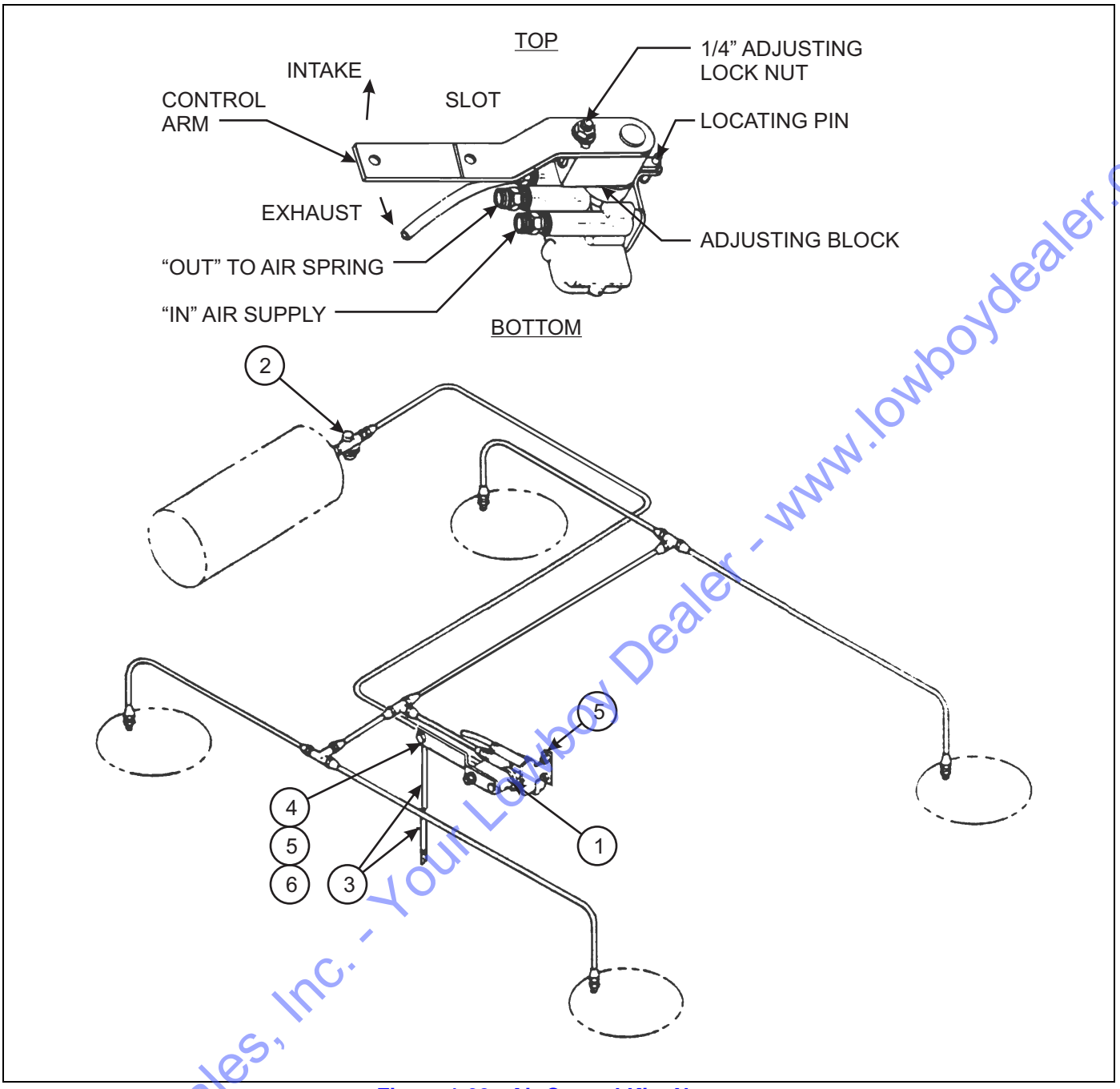


Figure 1-29: Air Control Kit - Neway

Air Control Kit - Neway

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	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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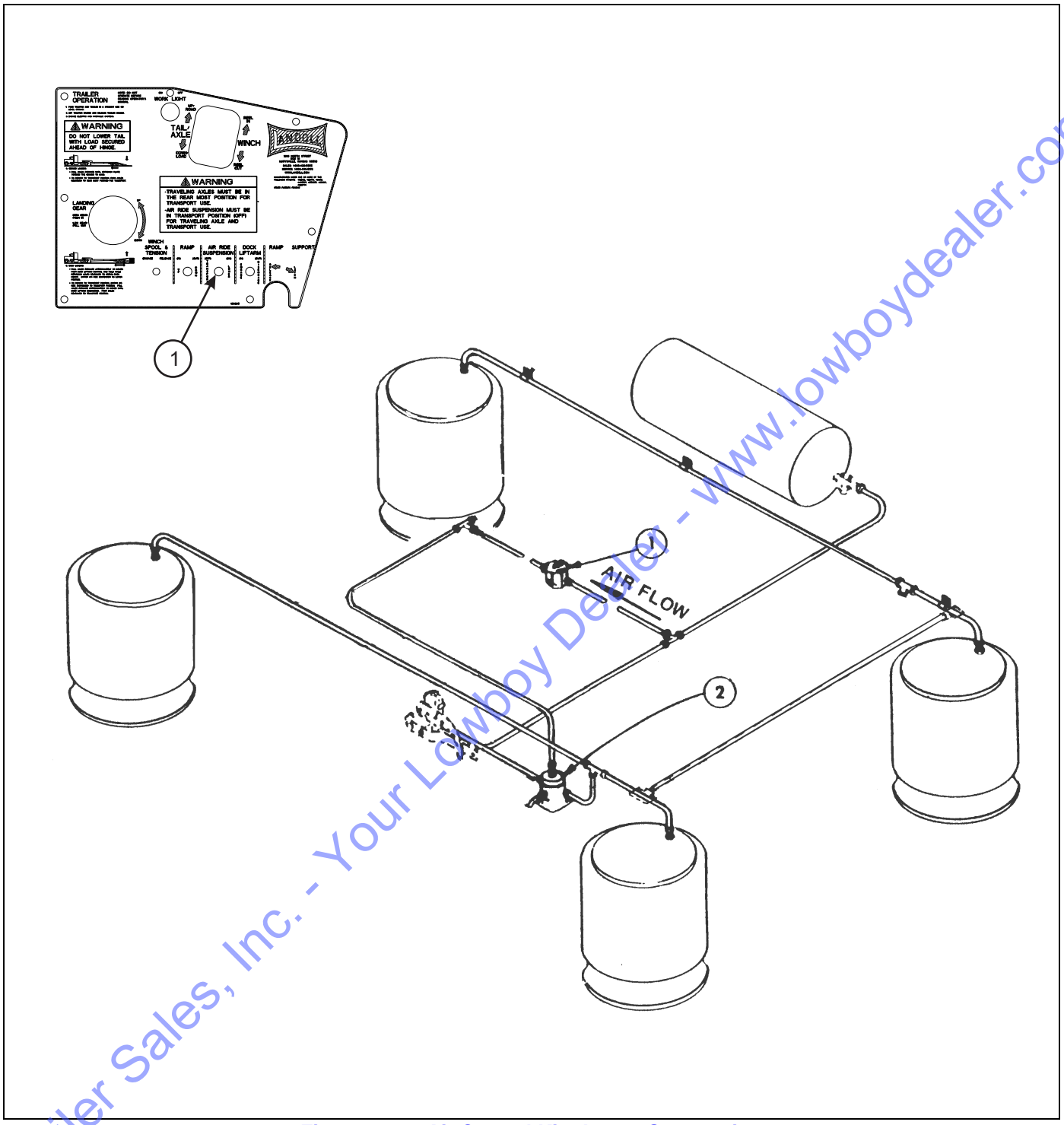
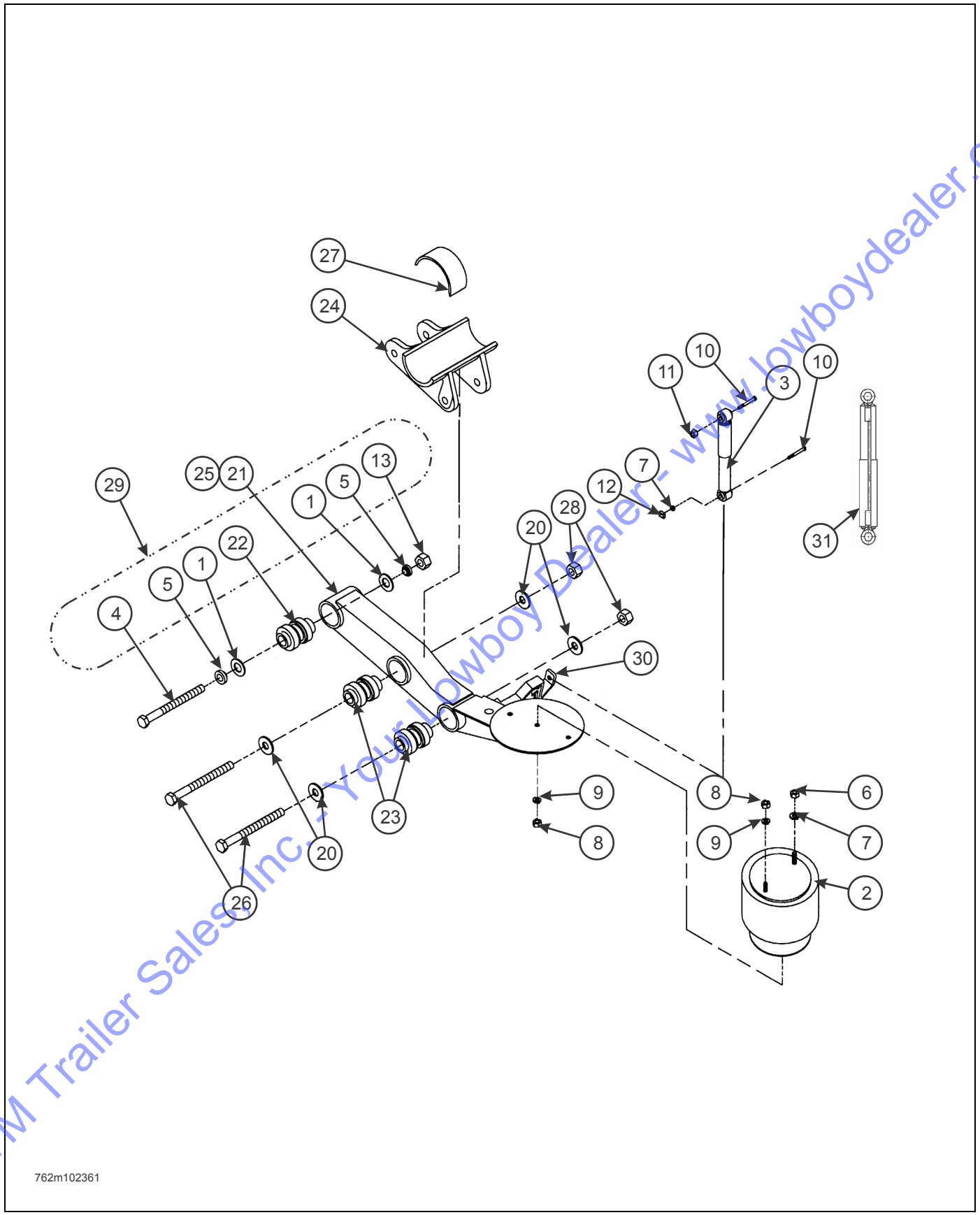


Figure 1-30: Air Control Kit - Lower Suspension

Air Control Kit - Lower Suspension

ITEM	PART NO.	DESCRIPTION	QTY.
	109177	AIR CONTROL KIT - LOWER SUSPENSION	
1	900-54-088	VALVE MANUALLY OPERATED	1
2	900-54-079	PILOT VALVE **(LOCATED ON UNDERCARRIAGE)**	1
3	-----	DECAL **(NOT SHOWN)**	1

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Figure 1-31: 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	900-25-288	900 25 288	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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Air Brake System

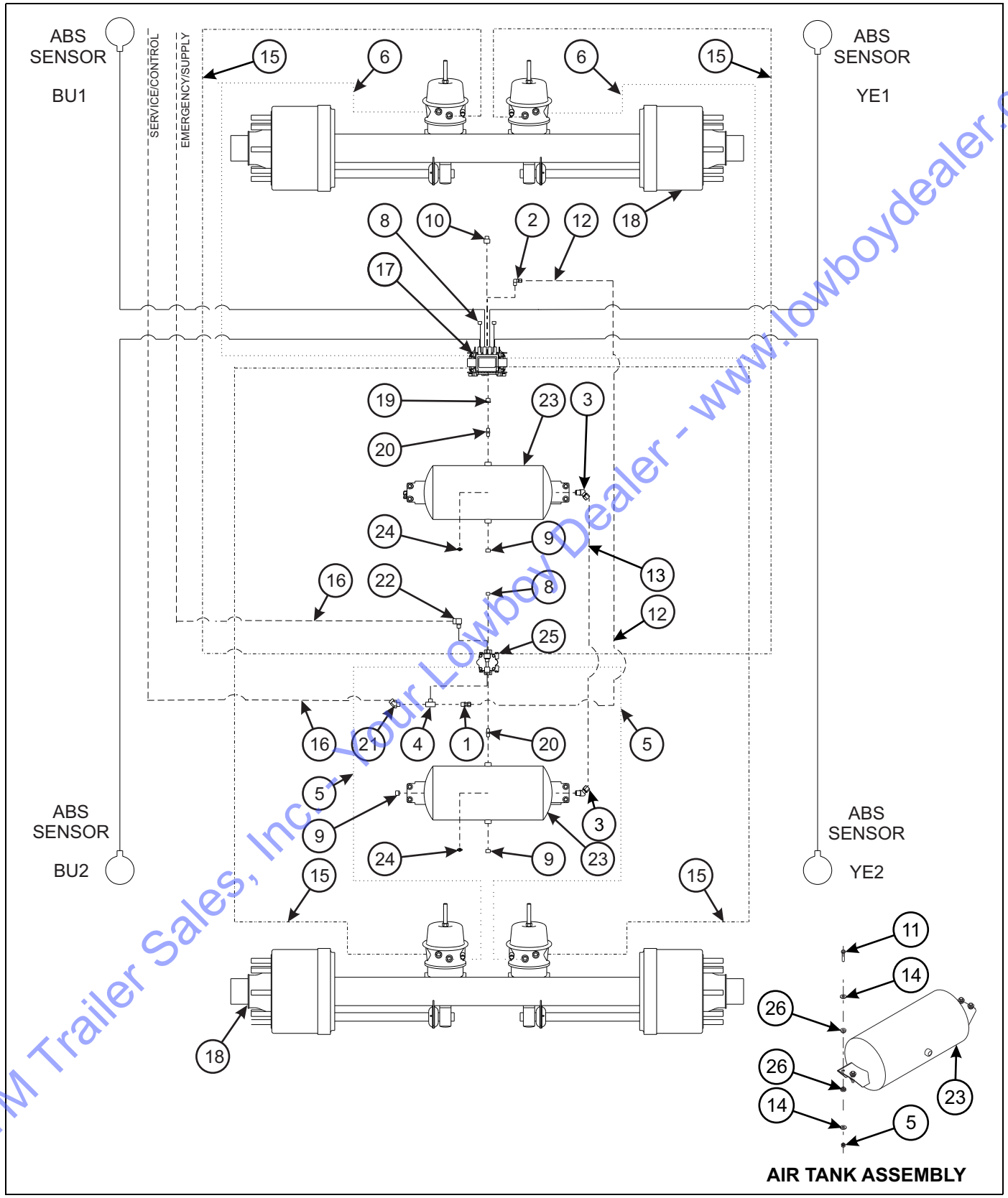


Figure 1-32: Air Brake System - 930C

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Air Brake System - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
	144631**	SUSPENSION, 930 - 12, 2512-77 GROTE	
	144633**	SUSPENSION, 930 - 12, 2516-75 GROTE	
	144635**	SUSPENSION, 930 - 14, 2512-77 GROTE	
	144637**	SUSPENSION, 930 - 14, 2516-75 GROTE	
	144639**	SUSPENSION, 930 - 15, 2512-77 GROTE	
	144641**	SUSPENSION, 930 - 15, 2512-75 GROTE	
	144632	SUSPENSION, 930 - 12, 2512-77 GROTE - TIS	
	144634	SUSPENSION, 930 - 12, 2516-75 GROTE - TIS	
	144636	SUSPENSION, 930 - 14, 2512-77 GROTE - TIS	
	144638	SUSPENSION, 930 - 14, 2516-75 GROTE - TIS	
	144640	SUSPENSION, 930 - 15, 2512-77 GROTE - TIS	
	144642	SUSPENSION, 930 - 15, 2512-75 GROTE - TIS	
1	1-297-010007-12	FITTING AIR	1
2	1-297-010008-18	FITTING, AIR 90	1
3	1-297-010013-16	FITTING, AIR 45	2
4	1-297-010017-03	FITTING AIR M/BR TEE	1
5	1-384-010038024	HOSE, AIR 3/8 X 24	2
6	1-384-010038038	HOSE, AIR 3/8 X 38	2
7	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
8	1-560-010002-03	PIPE PLUG 3/8	3
9	1-560-010002-04	PIPE PLUG 1/2	**3, 2
10	1-560-010002-05	PIPE PLUG 3/4-14	1
11	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
12	1-833-010002	TUBING, NYLON 3/8	AR
13	1-833-010003	TUBING NYLON 1/2	AR
14	1-861-010032-11	WASHER, FLAT 3/8W	16
15	101003	HOSE, AIR 3/8 X 48	4
16	109209	HOSE, AIR 3/8 X 244	2
17	114584	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-60)**	1
18	-----	AXLE WELDMENT	REF
19	118-2659-9	BUSHING 1/2 X 3/4	1
20	2083-8-8S	NIPPLE, HEX	2
21	2088-6-6S	ADAPTER, 45	1
22	2089-6-6S	ADAPTER 90	1
23	3-780-010002	TANK AIR	2
24	56D4	AIR TANK DRAIN COCK	2
25	758-181	VALVE RELAY EMERGENCY	1
26	805-2	STEP BUSHING	16

** 1ST QUANTITY IS USED WITH P/N - 144631, 144633, 144635, 144637, 144639 & 144641
2ND QUANTITY IS USED WITH P/N - 144632, 144634, 144636, 144638, 144640 & 144642

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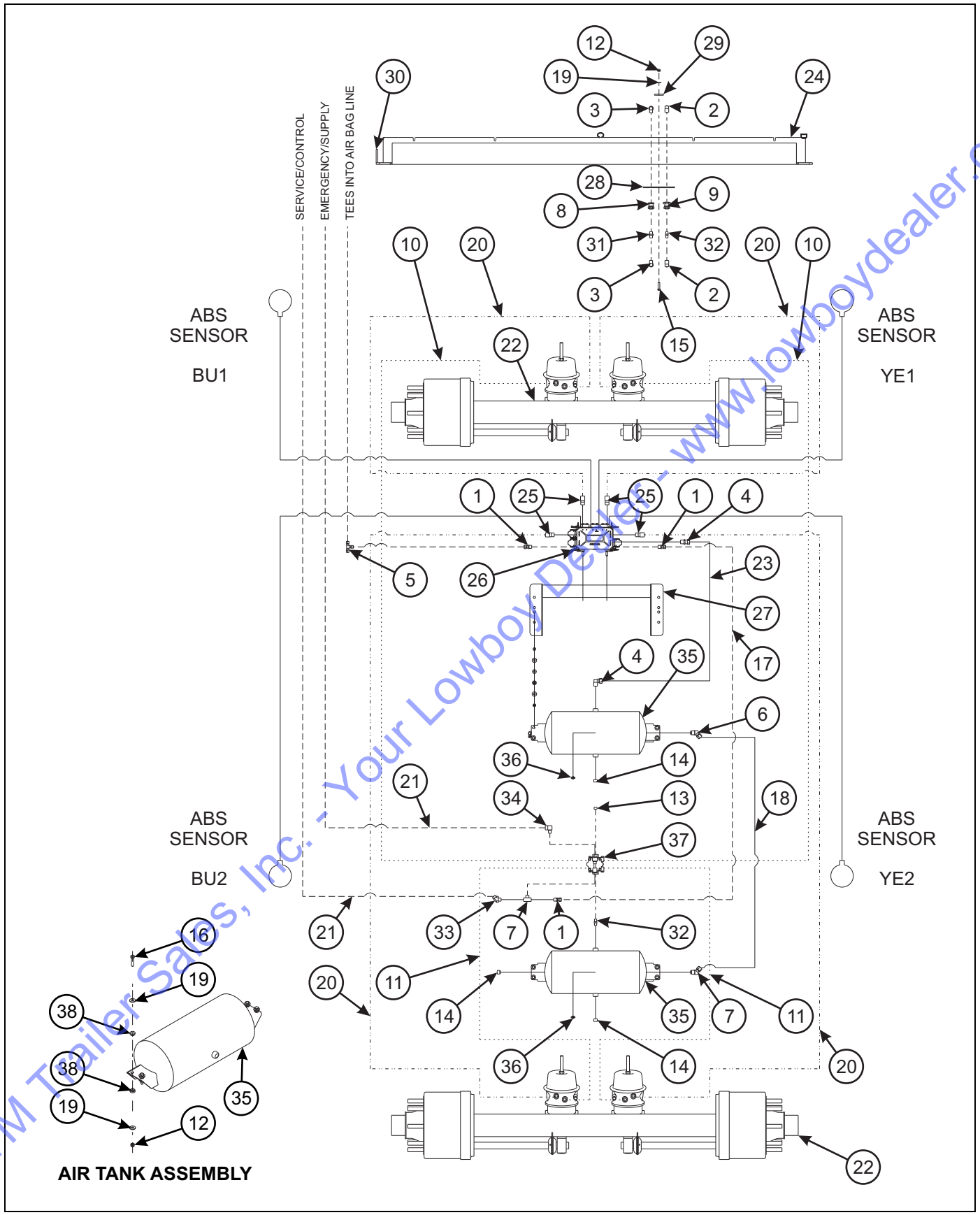


Figure 1-33: Air Brake System - 930C w/ Role Stability Support

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Air Brake System - 930C w/ Role Stability Support

ITEM	PART NO.	DESCRIPTION	QTY.
	148915**	SUSPENSION, 930 - 15RSS, 2512-77 GROTE TIS	
	148918	SUSPENSION, 930 - 15RSS, 2512-77 GROTE	
1	1-297-010007-12	FITTING AIR	3
2	1-297-010008-21	FITTING, AIR 90	2
3	1-297-010008-23	FITTING, AIR 90	2
4	1-297-010008-26	FITTING, AIR 90	2
5	1-297-010010-03	FITTING, AIR UNION TEE	1
6	1-297-010013-16	FITTING, AIR 45	2
7	1-297-010017-03	FITTING AIR M/BR TEE	1
8	1-297-010022-03	FITTING, AIR ANCHOR COUPLING	1
9	1-297-010022-04	FITTING, AIR ANCHOR COUPLING	1
10	1-384-010038024	HOSE, AIR 3/8 X 24	2
11	1-384-010038038	HOSE, AIR 3/8 X 38	2
12	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
13	1-560-010002-03	PIPE PLUG 3/8	2
14	1-560-010002-04	PIPE PLUG 1/2	**3, 2
15	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	2
16	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10
17	1-833-010002	TUBING, NYLON 3/8	AR
18	1-833-010003	TUBING NYLON 1/2	AR
19	1-861-010032-11	WASHER, FLAT 3/8W	18
20	101003	HOSE, AIR 3/8 X 48	4
21	109209	HOSE, AIR 3/8 X 244	2
22	-----	AXLE WELDMENT	REF
23	117304	TUBING, NYLON 5/8	AR
24	117532	CENTER CHANNEL, G/N	REF
25	126718	ADAPTER 90	4
26	148904	ABS W/ RSS WABCO 4S/2M TANDEM **(SEE PAGE 1-61)**	1
27	148908	SUPPORT WELDMENT, ABS VALVE	1
28	148916	BRACKET, AIR FILTER	1
29	148917	ANCHOR AIR BRACKET	1
30	148945	MOUNT, ABS ELECT RSS	1
31	2083-6-6S	NIPPLE, HEX	1
32	2083-8-8S	NIPPLE, HEX	2
33	2088-6-6S	ADAPTER, 45	1
34	2089-6-6S	ADAPTER 90	1
35	3-780-010002	TANK AIR	2
36	56D4	AIR TANK DRAIN COCK	2
37	758-181	VALVE RELAY EMERGENCY	1
38	805-2	STEP BUSHING	16

** 1ST QUANTITY IS USED WITH P/N - 148915
2ND QUANTITY IS USED WITH P/N - 148918

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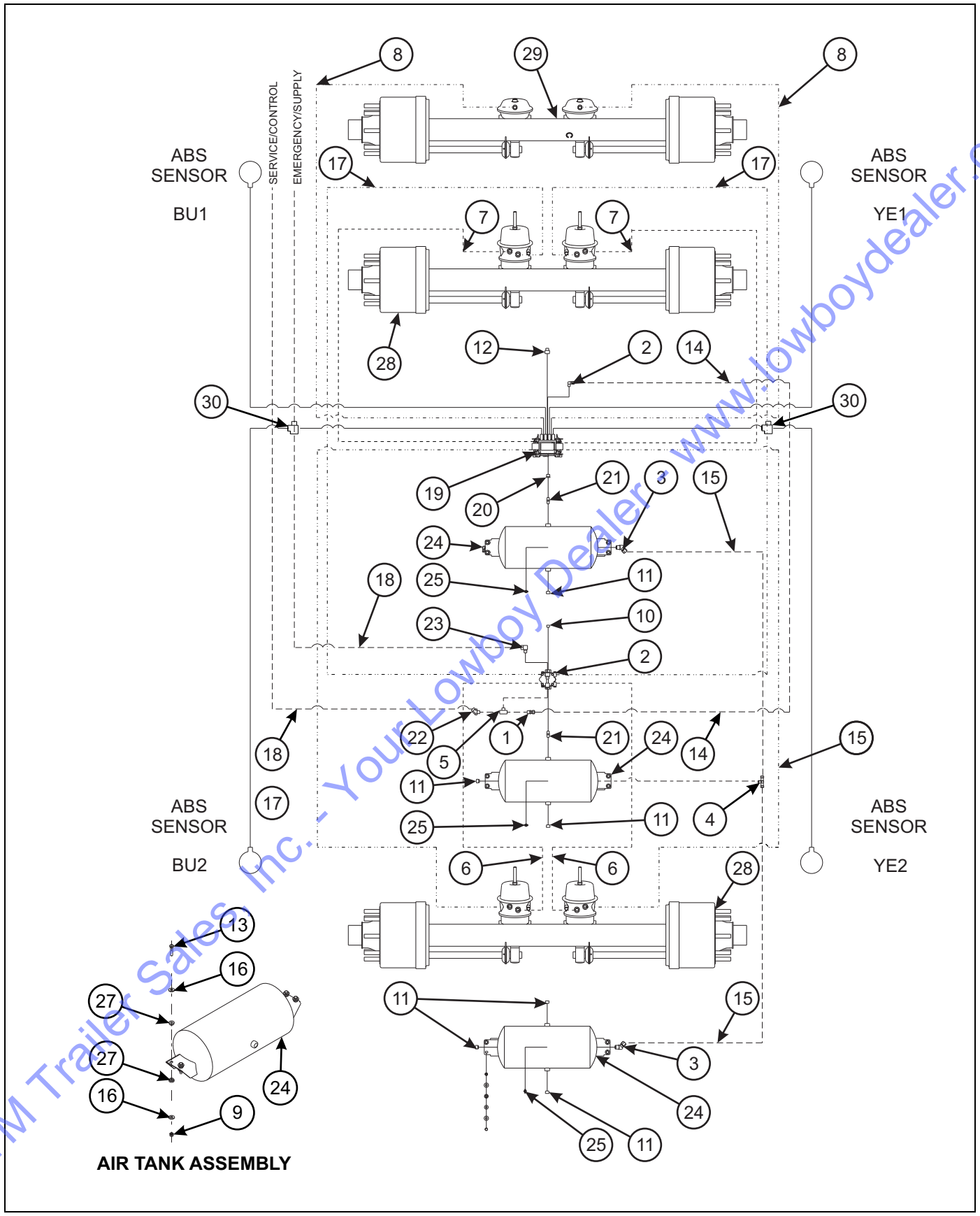


Figure 1-34: Air Brake System - 950C

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Air Brake System - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
	144643**	SUSPENSION, 950 12, 2512-77 GROTE	
	144645**	SUSPENSION, 950 12, 2516-75 GROTE	
	144647**	SUSPENSION, 950 14, 2512-77 GROTE	
	144649**	SUSPENSION, 950 14, 2516-75 GROTE	
	144651**	SUSPENSION, 950 15, 2512-77 GROTE	
	144653**	SUSPENSION, 950 15, 2516-75 GROTE	
	144644	SUSPENSION, 950 12, 2512-77 GROTE - TIS	
	144646	SUSPENSION, 950 12, 2516-75 GROTE - TIS	
	144648	SUSPENSION, 950 14, 2512-77 GROTE - TIS	
	144650	SUSPENSION, 950 14, 2516-75 GROTE - TIS	
	144652	SUSPENSION, 950 15, 2512-77 GROTE - TIS	
	144654	SUSPENSION, 950 15, 2516-75 GROTE - TIS	
1	1-297-010007-12	FITTING, AIR	1
2	1-297-010008-18	FITTING, AIR 90	1
3	1-297-010013-16	FITTING, AIR 45	2
4	1-297-010015-11	FITTING, AIR TEE	1
5	1-297-010017-03	FITTING, AIR M/BR TEE	1
6	1-384-010038024	HOSE, AIR 3/8 X 24	2
7	1-384-010038038	HOSE, AIR 3/8 X 38	2
8	1-384-010038076	HOSE AIR 3/8 X 76	2
9	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
10	1-560-010002-03	PIPE PLUG 3/8	1
11	1-560-010002-04	PIPE PLUG 1/2	**6, 5
12	1-560-010002-05	PIPE PLUG 3/4-14	1
13	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	12
14	1-833-010002	TUBING, NYLON 3/8	AR
15	1-833-010003	TUBING, NYLON 1/2	AR
16	1-861-010032-11	WASHER, FLAT 3/8W	24
17	101003	HOSE, AIR 3/8 X 48	4
18	109209	HOSE, AIR 3/8 X 244, W/3/8 ENDS	1
19	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 1-60)**	1
20	118-2659-9	BUSHING 1/2 X 3/4	1
21	2083-8-8S	NIPPLE, HEX	2
22	2088-6-6S	ADAPTER, 45	1
23	2089-6-6S	ADAPTER 90	1
24	3-780-010002	TANK AIR	3
25	56D4	AIR TANK DRAIN COCK	3
26	758-181	VALVE RELAY EMERGENCY	1
27	805-2	STEP BUSHING	24
28	-----	AXLE WELDMENT, SPRING	REF
29	-----	AXLE WELDMENT, SERVICE	REF
30	1-297-010018-03	FITTING, 3/8 BRASS PIPE, ST TEE **(AFTER 6-3-2015)**	2

** 1ST QUANTITY IS USED WITH P/N - 144643, 144645, 144647, 144649, 144651 & 144653
2ND QUANTITY IS USED WITH P/N - 144644, 144646, 144648, 144650, 144652 & 144654

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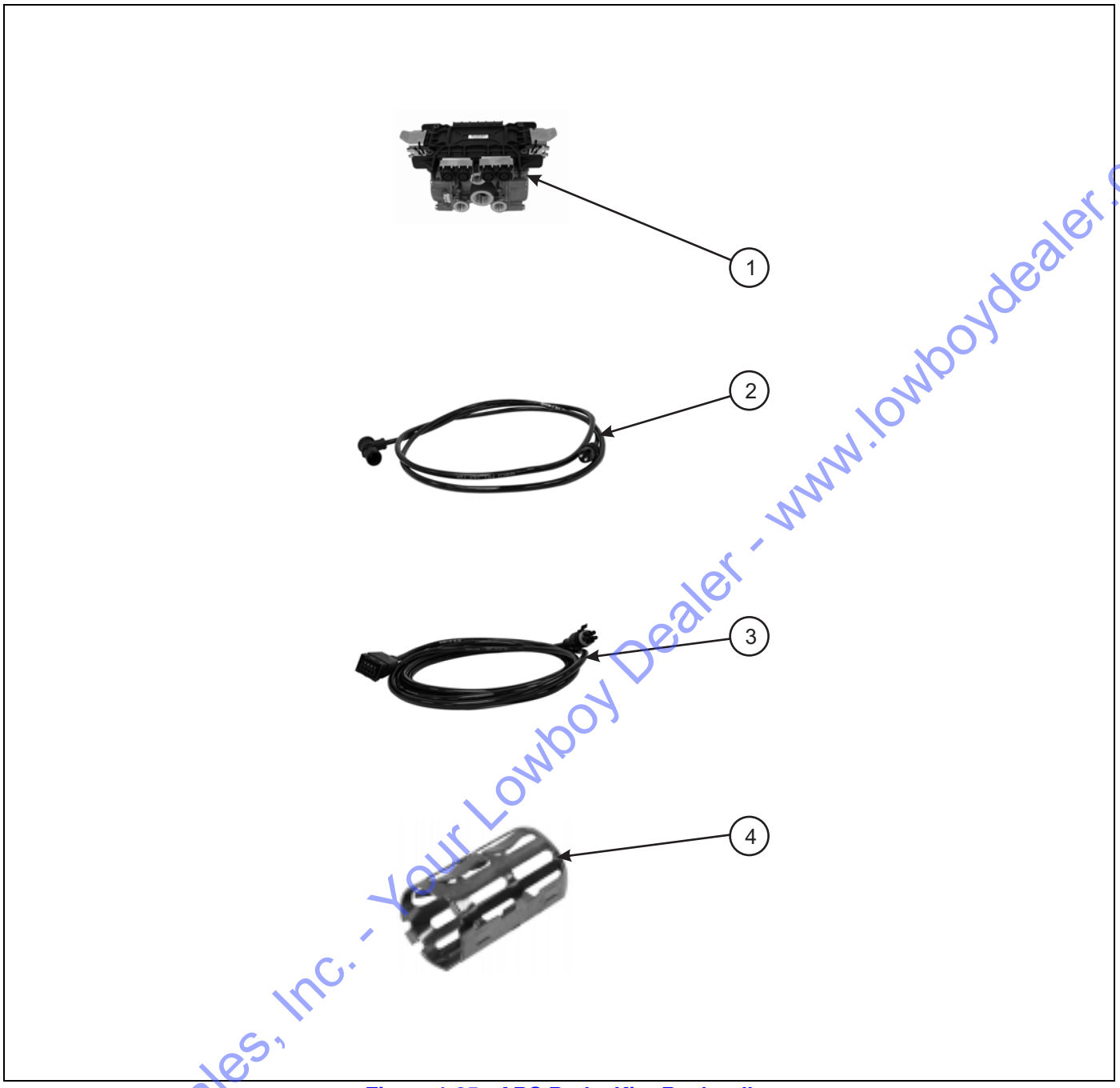


Figure 1-35: ABS Brake Kit - Rockwell

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 (114584)	4
	103861	SENSOR EXTENSION CABLE - 10 FT (114586)	4
3	147464	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1
4	101849	SPRING CLIP, ABS SENSOR	2

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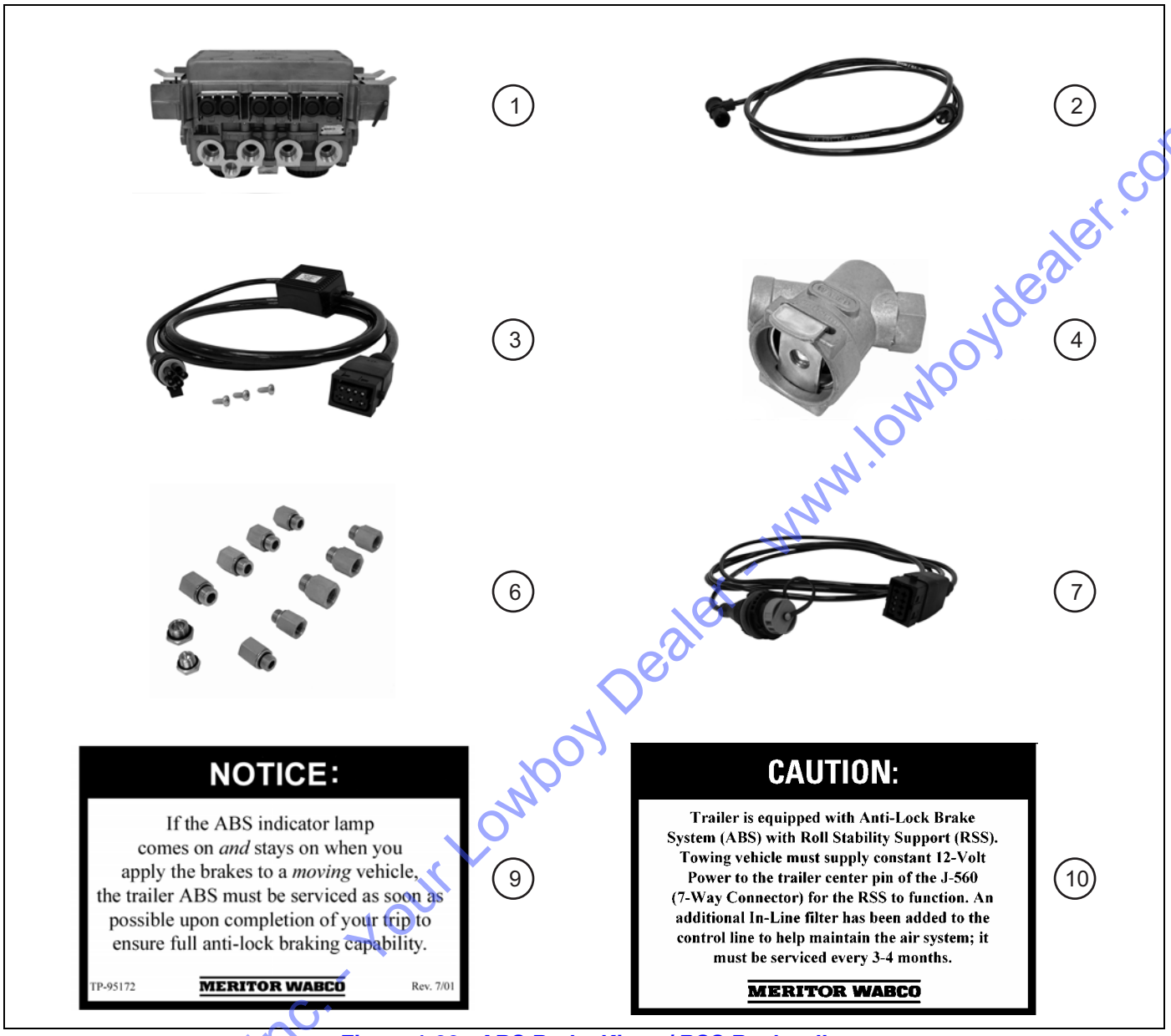


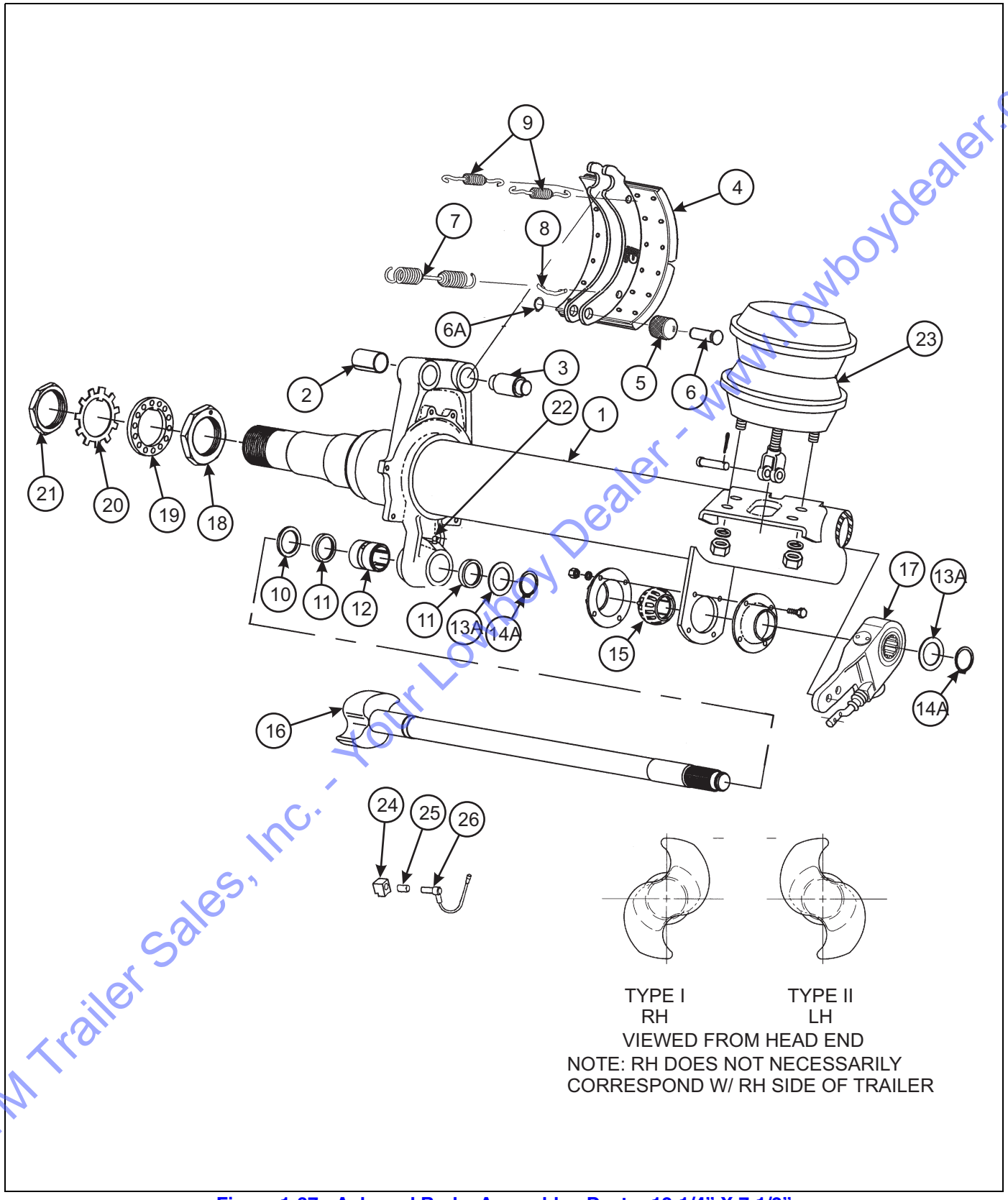
Figure 1-36: ABS Brake Kit - w/ RSS Rockwell

ABS Brake Kit - w/ RSS Rockwell

ITEM	PART NO.	DESCRIPTION	QTY.
	148904	ABS W/ RSS WABCO 4S/2M TANDEM	
1	148919	ECU/VALVE ASSEMBLY 4S/2M W/ RSS	1
2	101848	SENSOR EXTENSION CABLE - 6 FT.	4
3	148920	POWER CABLE - STD PLUG 8 FT.	1
4	148921	IN-LINE CONTROL LINE FILTER	1
5	148922	IN-LINE SUPPLY LINE FILTER **(NOT SHOWN)**	1
6	148923	HARDWARE KIT	1
7	148924	DIAGNOSTIC CABLE	1
8	148925	POWER EXTENSION CABLE 4 FT. **(NOT SHOWN)**	1
9	148926	ABS INDICATOR LABEL	1
10	148927	CONSTANT POWER LABEL	1

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Axle and Brakes



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Figure 1-37: Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

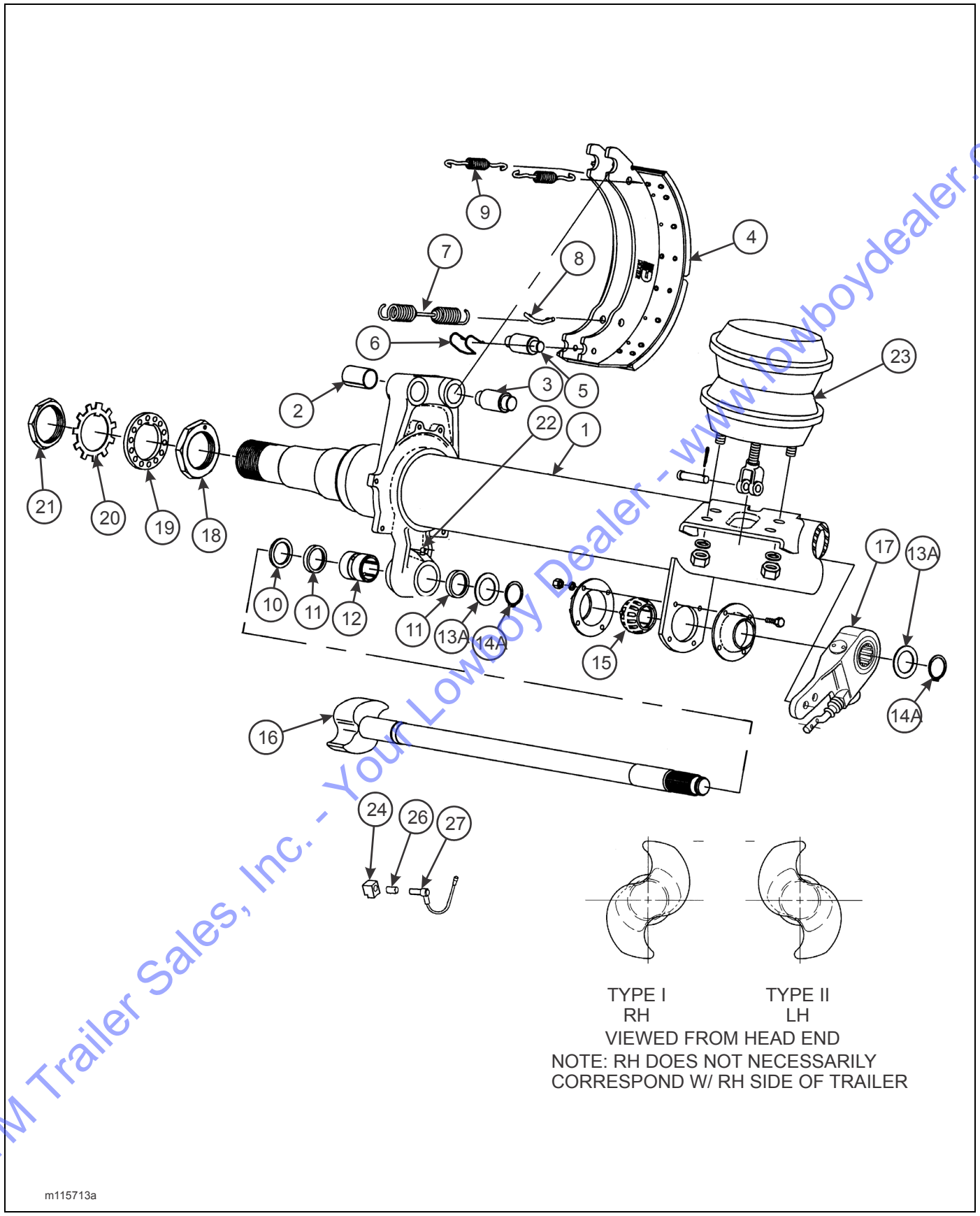
Axle and Brake Assembly - Dexter 12-1/4” X 7-1/2”

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115704		AXLE 77, 12-1/4 X 7-1/2 SPRING BRK - 25K	
	115709		AXLE 77, 12-1/4 X 7-1/2 SERVICE BRK - 25K	
	136203		AXLE 77, 12-1/4 X 7-1/2 SPRING BRK - 25K TIS	
	138198		AXLE 77, 12-1/4 X 7-1/2 SERVICE BRK - 25K TIS	
**	K71-460-00	K71-460-00	BRAKE SHOE HARDWARE KIT **(ITEMS 2, 3, 5, 6, 6A, 7, & 8)**	
2**	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	-----	056-017-00	PIN, ANCHOR	4
4	040-320-01	040-320-01	SHOE AND LINING ASSEMBLY	4
4A	-----	041-060-01	LINING - BRAKE BLOCK CAM	2
4B	-----	041-057-01	LINING - BRAKE BLOCK ANCHOR	4
	-----	K71-133-00	BRAKE BLOCK KIT	4
5**	-----	014-057-00	ROLLER	4
6**	-----	056-010-00	RETAINER, ROLLER PIN	8
6A**	-----	069-018-00	RETAINER RING	8
7**	-----	046-092-00	SPRING, SHOE RETRACTOR	2
8**	056-018-00	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	046-097-00	KEEPER SPRING	4
***	K71-101-00	K71-101-00	CAMSHAFT REPAIR KIT **(ITEMS 10-15, & 22)**	
10***	005-074-00	005-074-00	D” WASHER - CAMSHAFT	2
11***	010-052-00	010-052-00	SEAL GREASE	4
12***	-----	014-056-00	BUSHING CAMSHAFT SPIDER	2
13A***	-----	005-134-00	WASHER CAMSHAFT END	2
14A***	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15***	-----	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	136991	034-188-05	CAMSHAFT, 23-3/8” LH	1
	136992	034-189-05	CAMSHAFT, 23-3/8” RH	1
17	156655	055-040-99	SLACK ADJUSTER, AUTOMATIC	2
18	006-114-00	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
22***	-----	061-006-00	FITTING, GREASE 45°	2
23	034-058-07	034-058-07	AIR CHAMBER, SPRING BRAKE	2
	034-057-07	034-057-07	AIR CHAMBER, SERVICE BRAKE	2
24	103805	024-100-00	SENSOR BLOCK	2
25	144979	097-002-00	RETAINER CLIP	2
26	139287	094-007-00	ABS SENSOR, 90	2

** THESE PARTS ARE AVAILABLE AS PART OF THE BRAKE SHOE REPAIR KIT LISTED
*** THESE PARTS ARE AVAILABLE AS PART OF THE CAMSHAFT REPAIR KIT LISTED

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

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Figure 1-38: 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.
	115715		AXLE 75, 16-1/2 X 7 SPRING BRAKE - 25K	
	115720		AXLE 75, 16-1/2 X 7 SERVICE BRAKE - 25K	
	138955		AXLE 75, 16-1/2 X 7 SPRING BRAKE - 25K TIS	
	138959		AXLE 75, 16-1/2 X 7 SERVICE BRAKE - 25K TIS	
1A	-----	D-2H16	BEAM W/ BRACKETS	1
**	K71-136-00	K71-136-00	BRAKE SHOE HARDWARE KIT **(ITEMS 2, 3, 5 & 6-9)**	
2**	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	-----	056-017-00	PIN, ANCHOR	4
4	040-180-00	040-180-00	SHOE AND LINING ASSEMBLY	4
4A	-----	041-058-01	LINING - BRAKE BLOCK CAM	2
4B	-----	041-059-01	LINING - BRAKE BLOCK ANCHOR	4
	-----	K71-138-00	BRAKE BLOCK KIT	4
5**	014-065-00	014-065-00	ROLLER	4
6**	071-122-00	071-122-00	RETAINER, ROLLER	4
7**	046-096-00	046-096-00	SPRING, SHOE RETRACTOR	2
8**	056-018-00	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	046-097-00	KEEPER SPRING	4
	-----	***K71-135-00	CAMSHAFT REPAIR KIT **(ITEMS 10-15, & 22)**	1
10***	005-096-00	005-096-00	WASHER CAMSHAFT	2
11***	010-052-00	010-052-00	SEAL GREASE	4
12***	-----	014-056-00	BUSHING CAMSHAFT SPIDER	2
13A***	-----	005-134-00	WASHER CAMSHAFT END	2
14A***	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15***	-----	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	137461	034-192-08	CAMSHAFT, 25" LH	1
	137485	034-193-08	CAMSHAFT, 25" RH	1
17	139383	055-040-98	SLACK ADJUSTER, AUTOMATIC	2
18	006-114-00	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
22***	-----	061-006-00	FITTING, GREASE 45°	2
23	034-058-01	034-058-01	AIR CHAMBER, SPRING BRAKE	4
	034-057-01	034-057-01	AIR CHAMBER, SERVICE BRAKE	2
24	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	139287	097-007-00	ABS SENSOR, 90	2

** THESE PARTS ARE AVAILABLE AS PART OF THE BRAKE SHOE REPAIR KIT LISTED
*** THESE PARTS ARE AVAILABLE AS PART OF THE CAMSHAFT REPAIR KIT LISTED

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

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Hub and Drum

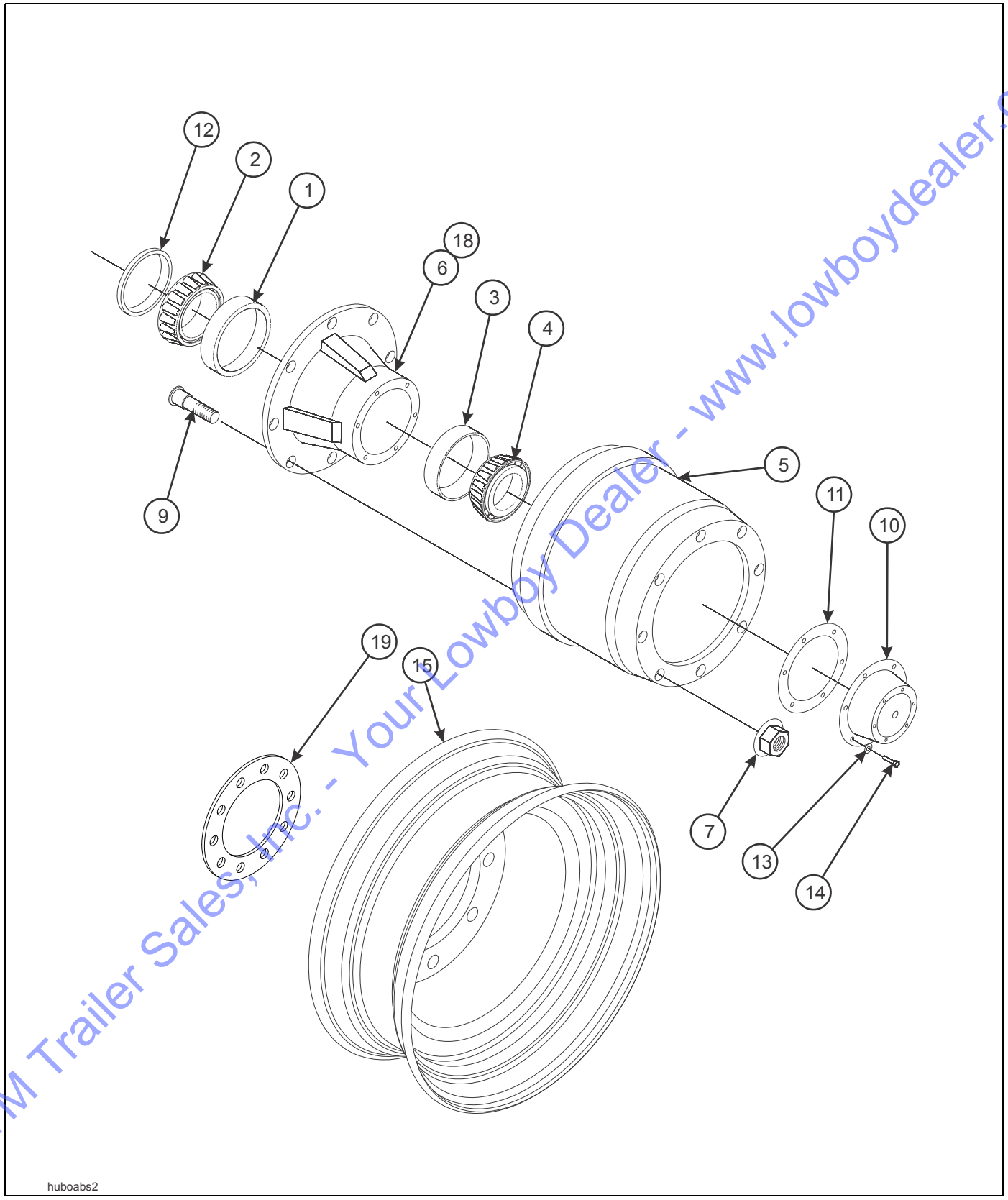


Figure 1-39: Outboard Pilot Mount Hub and Drum Assembly

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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	110976	OUTBOARD MOUNTED BRAKE DRUM - 10 BOLT	1
	63680	OUTBOARD MOUNTED BRAKE DRUM - 8 BOLT	1
6	110975	HUB W/ TONE RING - 10 BOLT **(USED W/ 103783)**	1
	112492	HUB W/ TONE RING - 8 BOLT **(USED W/ 105812)**	1
7	179955	FLANGE NUT - 8 BOLT	8
	144724	LUG NUT COVER **(NOT SHOWN)**	**8,10
9	113536	STUD, 22MM 3.5 STANDOUT	**8,10
10	4009	CAP HUB	1
11	3067	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER, SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW, HEX HEAD CAP 5/16-18 X 3/4 GR5	6
15	3-870-010104	WHEEL. 22.5X7.50 PILOT MT 16-1/2” BRK - 10 BOLT	1
	3-870-010106	WHEEL ALUM PILOT MT 22.5X7.50 - 10 BOLT	1
	3-870-010116	WHEEL ALUM PILOT MT 22.5X7.50 - 10 BOLT	1
	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
	112047	WHEEL, ALUM PILOT 17.5 X 6.75 MACH - 8 BOLT	1
16	TR573	VALVE STEM - STEEL WHEEL **(NOT SHOWN)**	1
	100401	VALVE STEM TR543C **(NOT SHOWN)**	1
	TR545D	VALVE STEM - ALUMINUM WHL **(NOT SHOWN)**	1
17	1-843-010014	VALVE, EXTENSION, STEM 3” **(NOT SHOWN)**	1
18*	----	ABS TONE RING	1
19***	114619	WHEEL GUARD 8 HOLE 275 MM BC - USED W/ ALUMINUM	
	3-870-010107	WHEEL GUARD 10 HOLE 285.75MM BC	
	123882	SPACER, WHEEL .375 X 10 HOLE HUB PILOT	

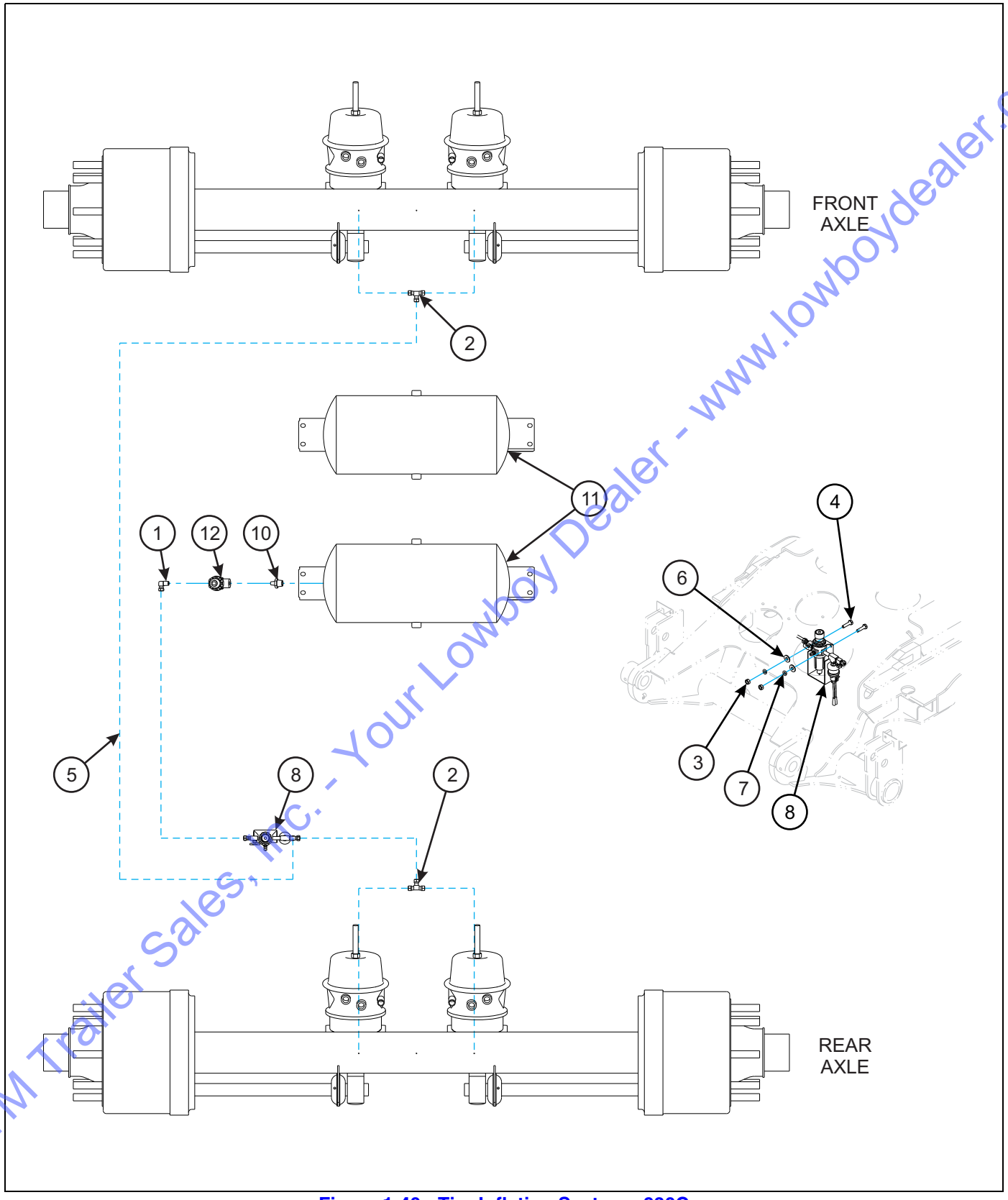
* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE BRAKE DRUM. IT SHOULD NEVER BE SOLD SEPARATELY.

** 1ST QUANTITY IS USED WITH 8 BOLT WHEEL
2ND QUANTITY IS USED WITH 10 BOLT WHEEL

*** USE BETWEEN STEEL DRUM OR WHEEL AND ALUMINUM WHEEL.

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Tire Inflation System



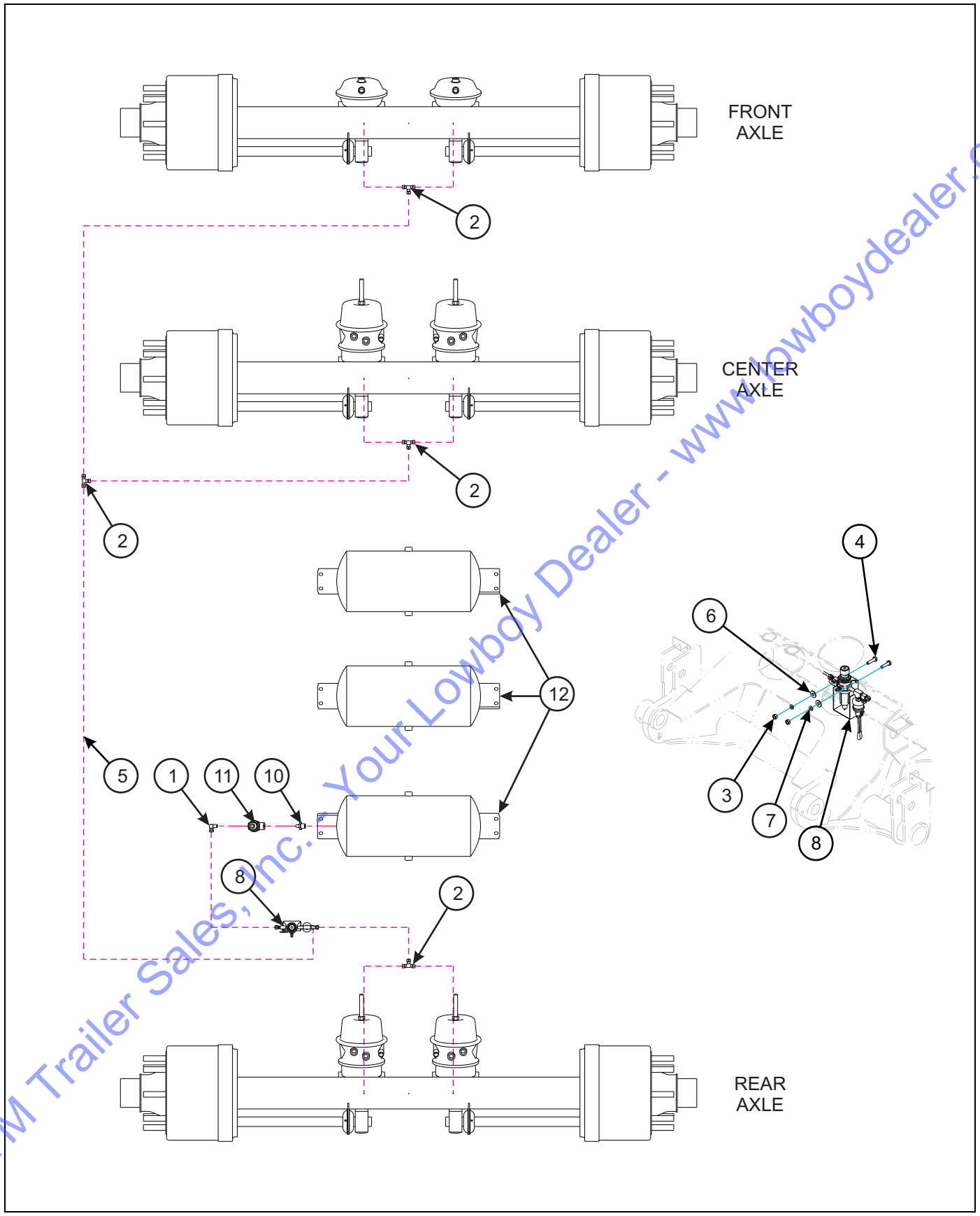
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Figure 1-40: Tire Inflation System - 930C

Tire Inflation System - 930C

ITEM	PART NO.	DESCRIPTION	QTY.
	144632	SUSPENSION, 930 - 12, 2512-77 GROTE - TIS	
	144634	SUSPENSION, 930 - 12, 2516-75 GROTE - TIS	
	144636	SUSPENSION, 930 - 14, 2512-77 GROTE - TIS	
	144638	SUSPENSION, 930 - 14, 2516-75 GROTE - TIS	
	144640	SUSPENSION, 930 - 15, 2512-77 GROTE - TIS	
	144642	SUSPENSION, 930 - 15, 2512-75 GROTE - TIS	
	148918	SUSPENSION, 930 - 15RSS, 2512-77 GROTE - TIS	
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	157702	TIRE INFLATION SYSTEM 2AX **(SEE PAGE 1-73)**	1
9	176473	HARNESS KIT TIRE INFL 400/900 **(NOT SHOWN) (SEE PAGE 1-75)**	--
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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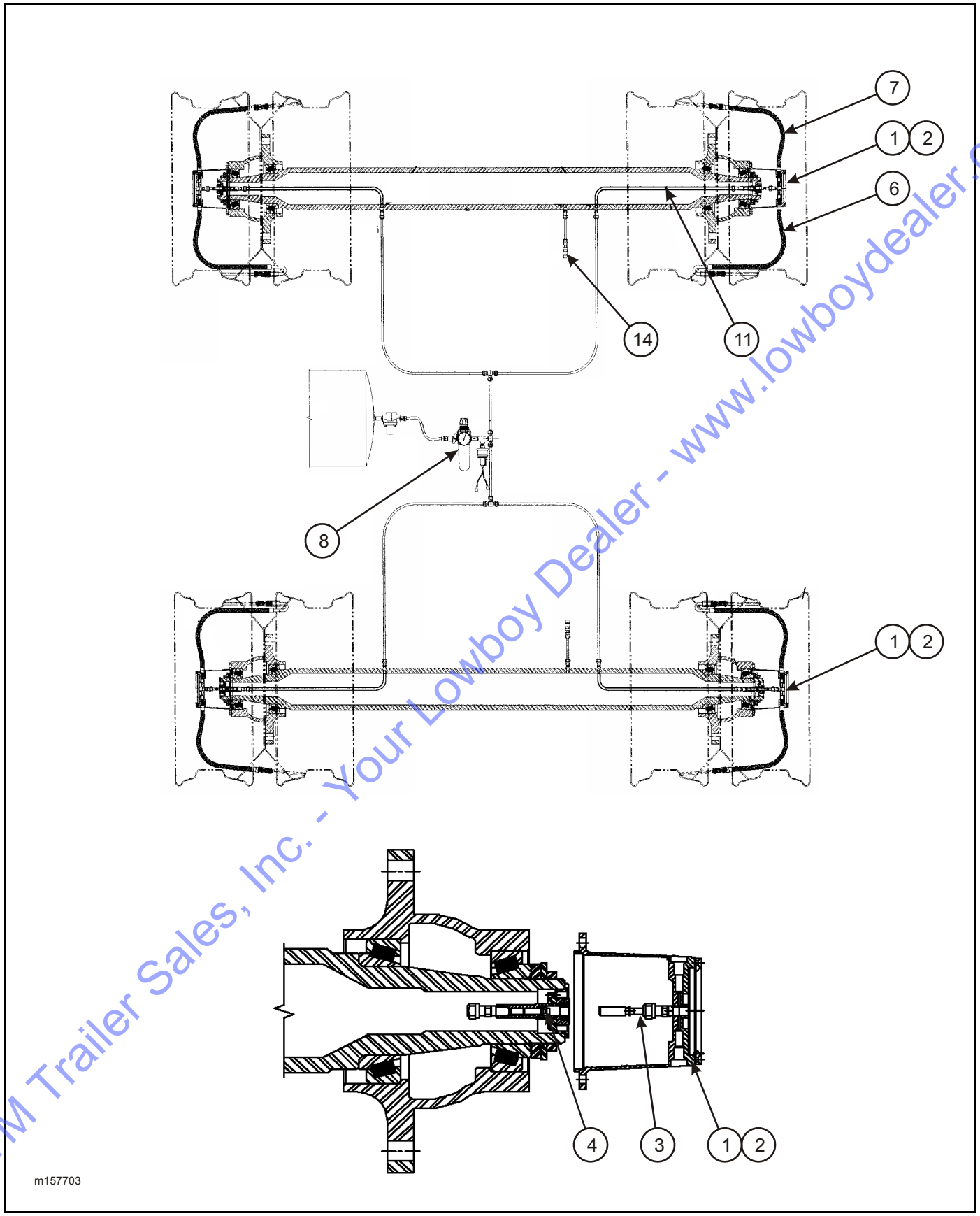
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Figure 1-41: Tire Inflation System - 950C

Tire Inflation System - 950C

ITEM	PART NO.	DESCRIPTION	QTY.
	144644	SUSPENSION, 950 12, 2512-77 GROTE - TIS	
	144646	SUSPENSION, 950 12, 2516-75 GROTE - TIS	
	144648	SUSPENSION, 950 14, 2512-77 GROTE - TIS	
	144650	SUSPENSION, 950 14, 2516-75 GROTE - TIS	
	144652	SUSPENSION, 950 15, 2512-77 GROTE - TIS	
	144654	SUSPENSION, 950 15, 2516-75 GROTE - TIS	
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 1-73)**	1
9	176473	HARNESS KIT TIRE INFL 400/900 **(NOT SHOWN) (SEE PAGE 2-85)**	1
10	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	REF
11	905-54-107	BRAKE PROTECTION VALVE	REF
12	3-780-010002	TANK AIR	3

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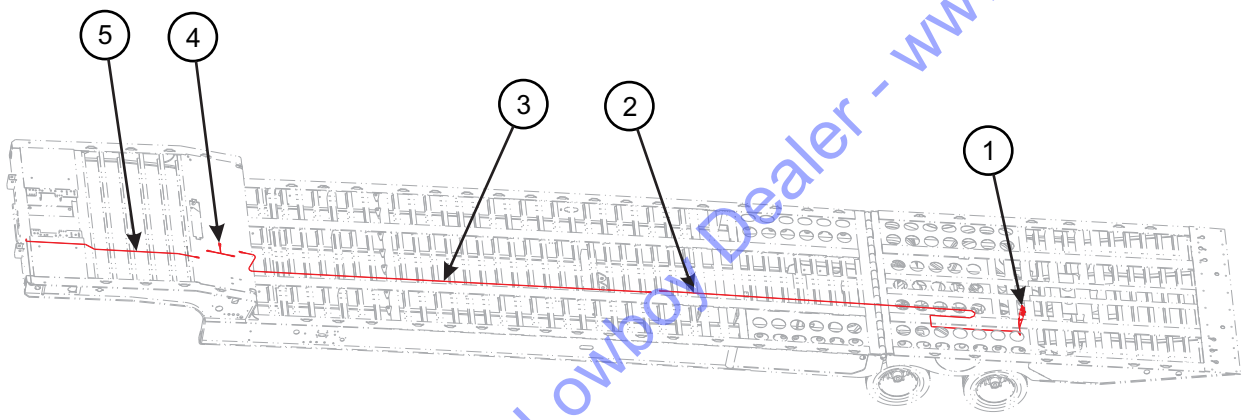
Figure 1-42: Tire Inflation System - 2AX/3AX (Option)

Tire Inflation System - 2AX/3AX (Option)

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

**1ST QUANTITY IS USED WITH P/N - 157703
2ND QUANTITY IS USED WITH P/N - 157702

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m176473

Figure 1-43: Tire Inflation System - Harness Kit

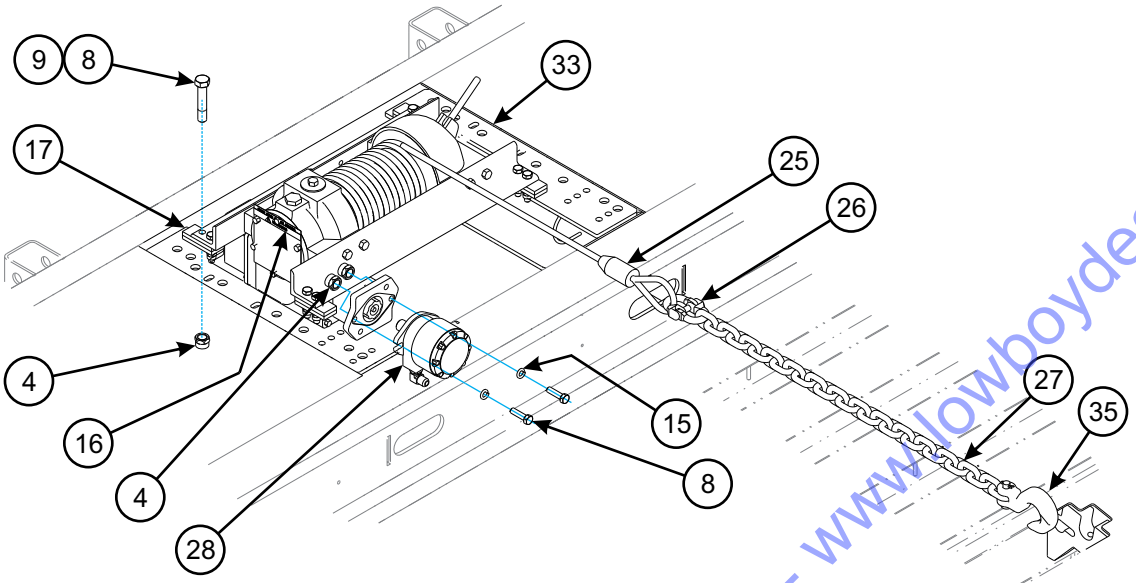
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Tire Inflation System - Harness Kit

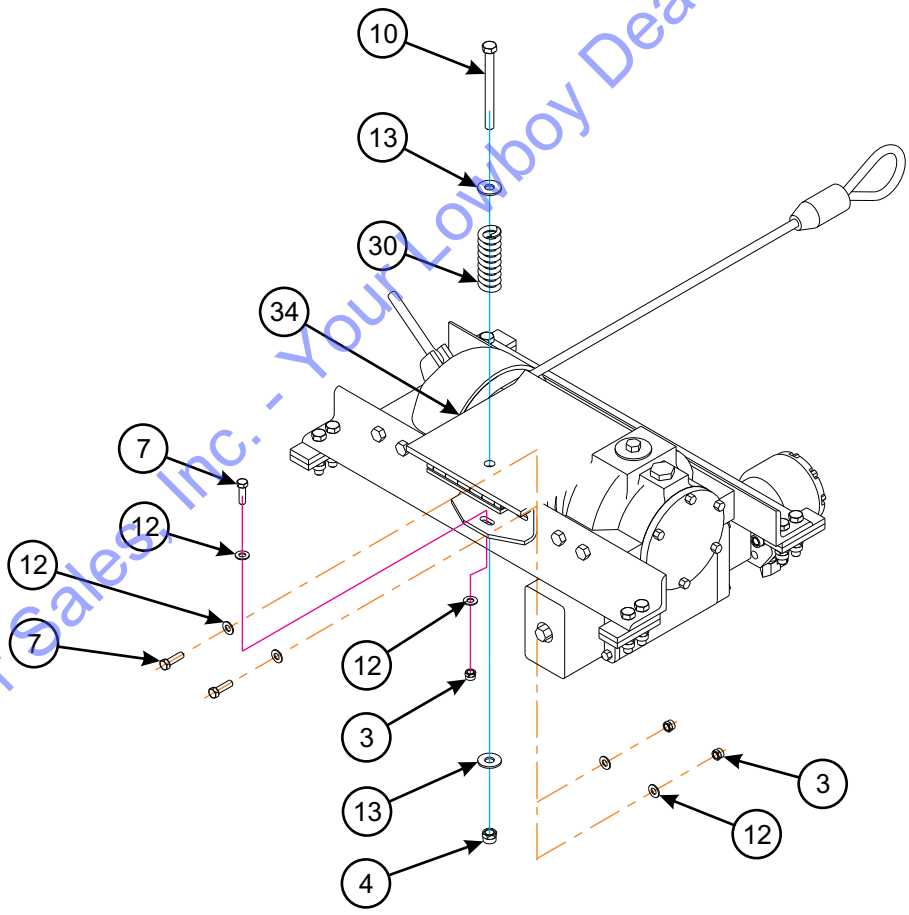
ITEM	PART NO.	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	
1	157703	TIRE INFLATION SYSTEM 3AX	REF
	157702	TIRE INFLATION SYSTEM 2AX	REF
2	176476	HARNESS, TIRE INFLATION LD25S	1
3	176477	HARNESS, TIRE INFLATION LD30	1
4	176478	HARNESS, TIRE INFLATION LDPWR	1
5	176479	HARNESS, TIRE INFLATION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

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Winches



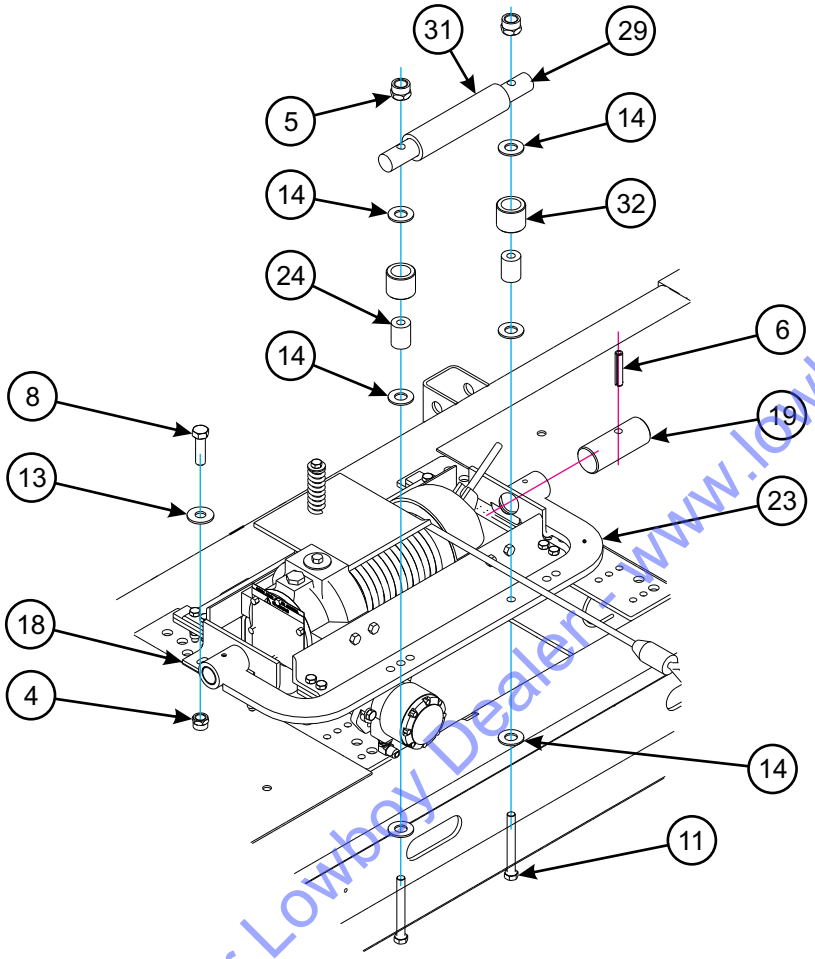
WINCH ASSEMBLY



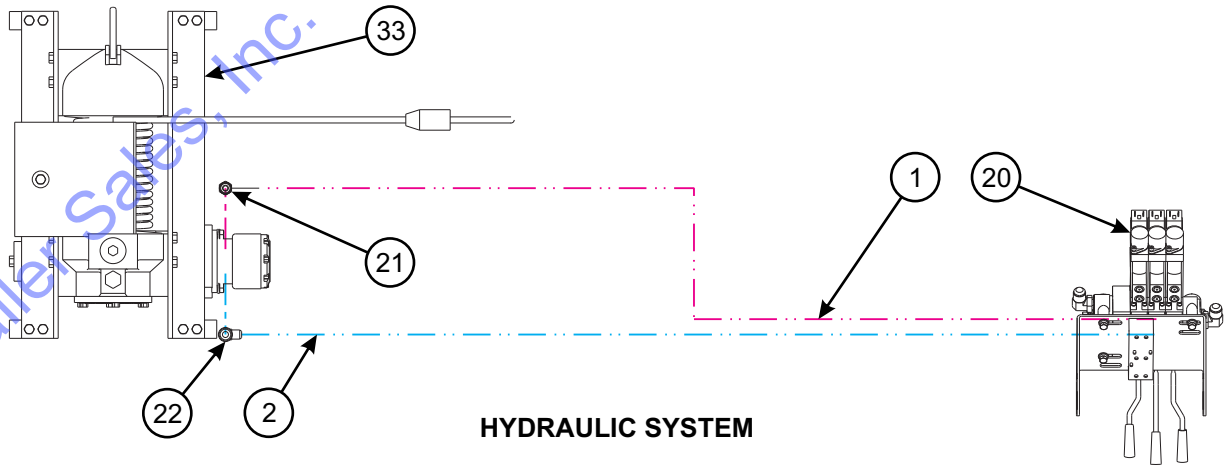
SPRING TENSIONER ASSEMBLY

Figure 1-44: Winch Installation - 12K Upper Deck (BRADEN) (1 of 2)

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CABLE ROLLER GUIDE ASSEMBLY



HYDRAULIC SYSTEM

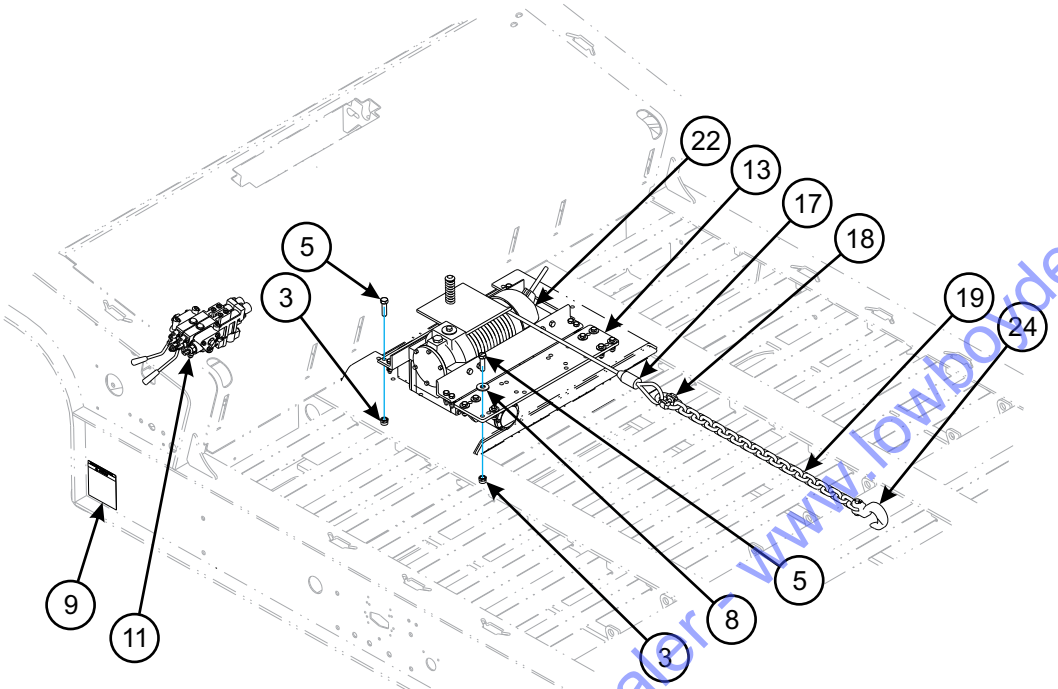
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Figure 1-45: Winch Installation - 12K Upper Deck (BRADEN) (2 of 2)

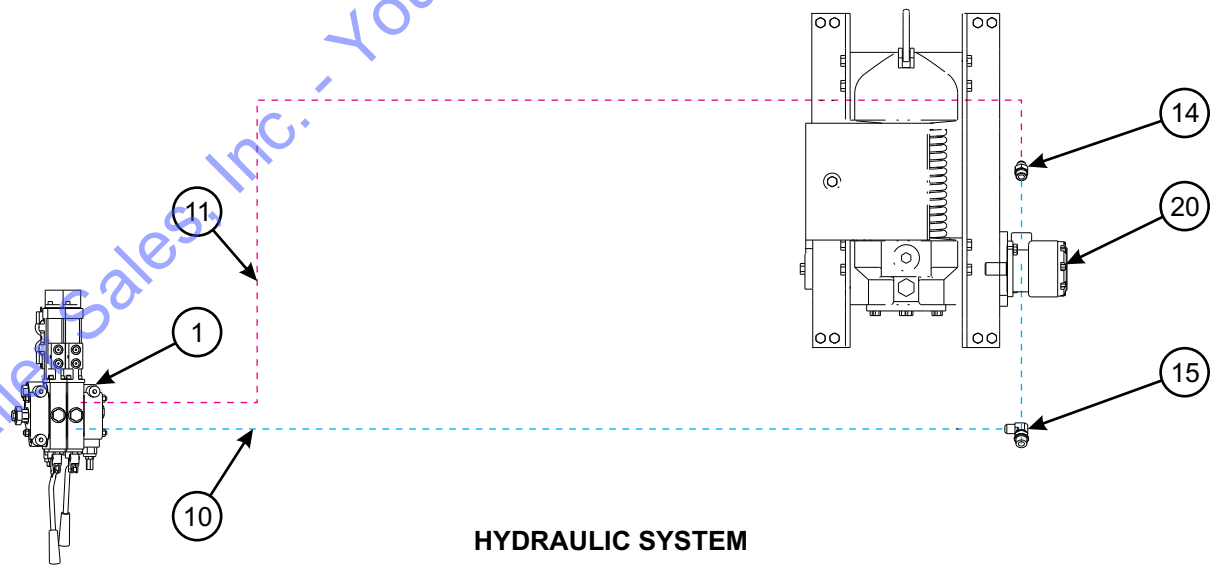
Winch Installation - 12K Upper Deck (BRADEN)

ITEM	PART NO.	DESCRIPTION		QTY
	3-873-010144-01	WINCH, 12K SPRING TENSION	*	
	119623	WINCH, 12K SPRING TENSION - CABLE, RLR, BRD		*
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11	15
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	--	2
6	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	--	2
7	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3	3
8	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10	6
9	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	--	8
10	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1	1
11	1-654-010059-16	SCREW, HEX HEAD CAP 5/8-11 X 5-1/2 GR5	--	2
12	1-861-010032-10	WASHER, FLAT 3/8N	6	6
13	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2	6
14	1-861-010032-18	WASHER, FLAT 5/8N (20K)	--	6
15	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2	2
16	100600	DECAL, WARNING, BRADEN WINCH	1	1
17	116378	SPACER, WINCH	--	8
18	119621	ANCHOR, CABLE GUIDE WINCH	--	2
19	119622	PIN, PIVOT, WINCH ROLLER 410	--	2
20	148241	VALVE ASSEMBLY, 3-SPOOL 400 **(SEE PAGE 1-23)**	REF	REF
21	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1	1
22	2062-10-8S	ADAPTER, 90, #10 O-RING - #8 TUBE	1	1
23	3-125-010464	BRACKET, WELDMENT, WINCH ROLLER 660	--	1
24	3-150-010196	BUSHING, WINCH ROLLER-SIDE-600	--	2
25	3-155-010017-4	CABLE ASSEMBLY, 1/2 X 85' LENGTH	REF	REF
26	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1	1
27	3-174-010039036	CHAIN, 1/2 X 36" GRD7	1	1
28	3-481-010006	MOTOR HYD. - 12K **(SEE PAGE 1-101)**	1	1
29	3-642-010150	ROD, PIVOTING GUIDE	--	1
30	3-720-010010	SPRING COMPRESSION	1	1
31	3-831-010151	TUBE, ROLLER, TOP	--	1
32	3-831-010172	TUBE, WINCH ROLLER - SIDE 600	--	2
33	3-873-010122	WINCH ASSEMBLY 12K **(SEE PAGE 1-83)**	1	1
34	3-873-010124	WINCH TENSIONER, 20K BRADEN SPRING	1	1
35	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1	1
	F-100852	FIELD INSTALLATION KIT **(ITEMS 4-6, 8, 11, 13, 14, 18, 19, 23, 24, 29, 31, & 32)**		

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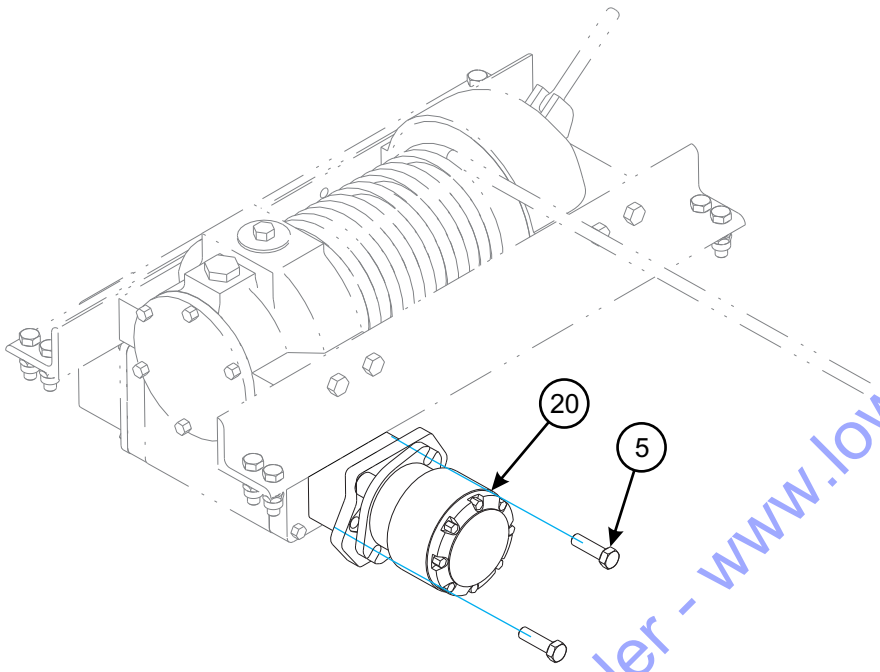
GENERAL ASSEMBLY



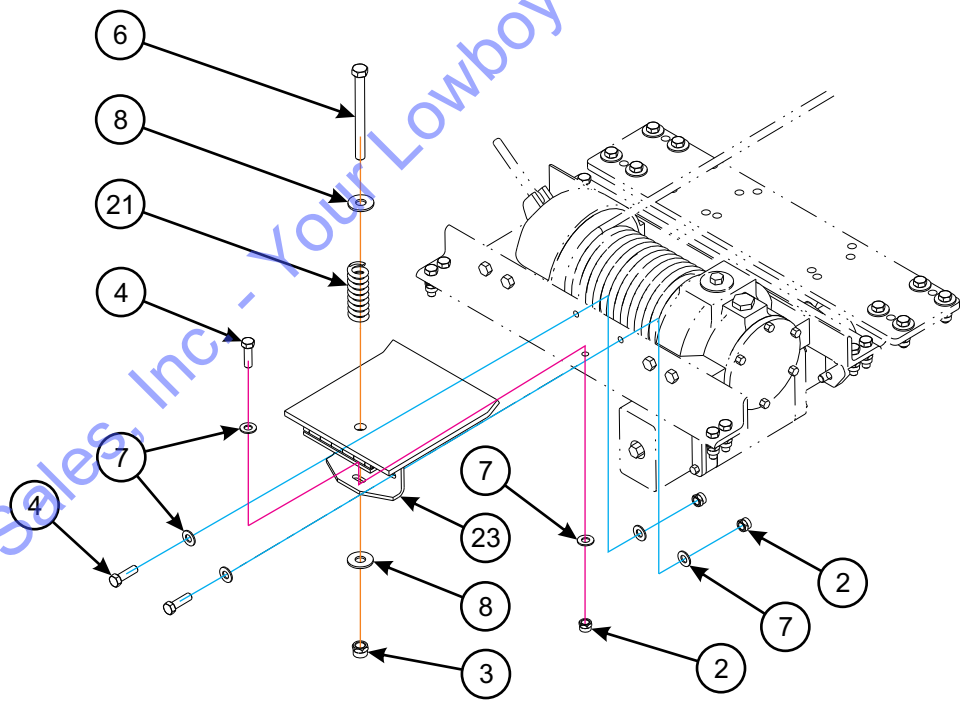
HYDRAULIC SYSTEM

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Figure 1-46: Winch Installation - 12K Lower Deck (BRADEN) (1 of 2)



MOTOR ASSEMBLY



SPRING TENSIONER SYSTEM

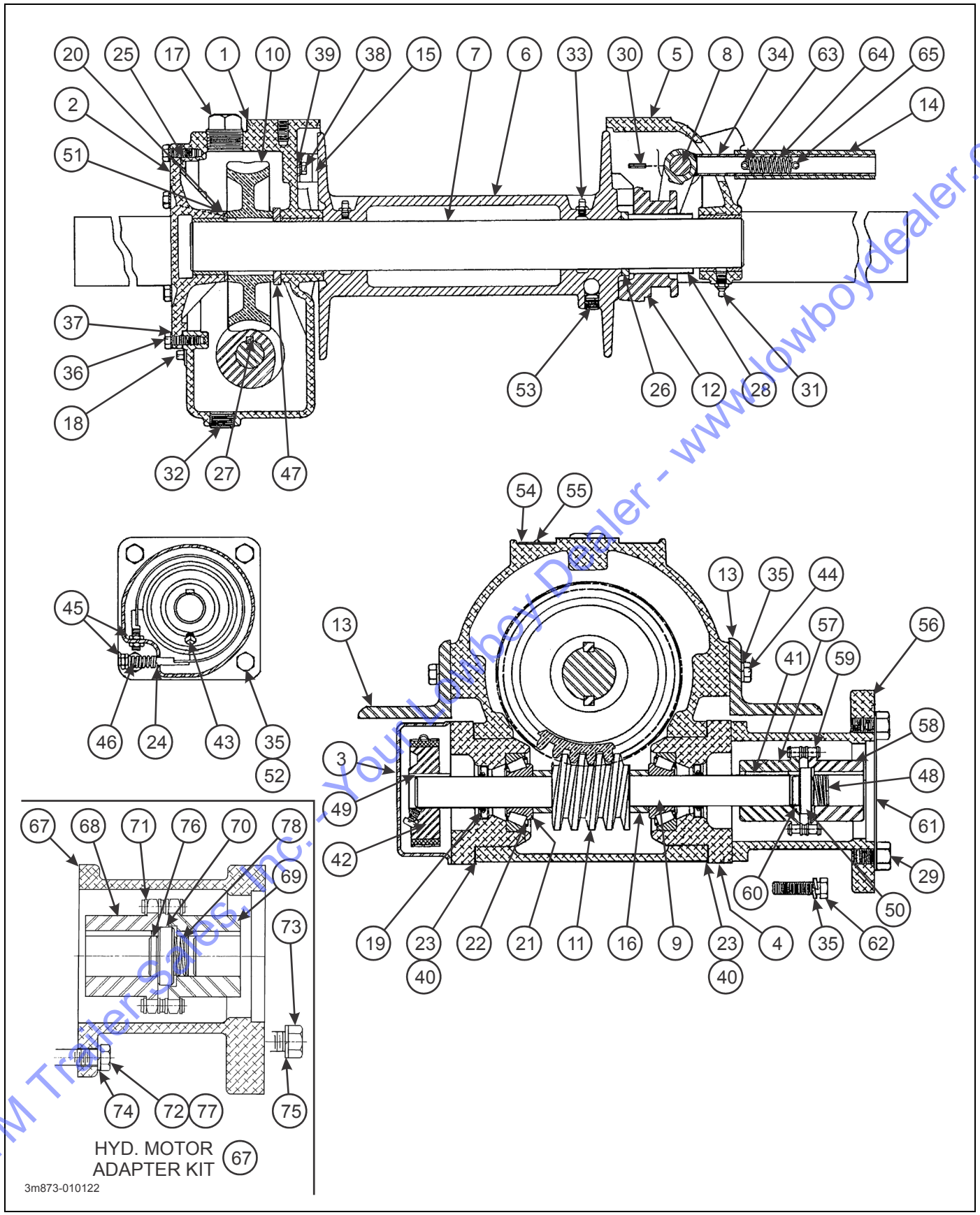
Figure 1-47: Winch Installation - 12K Lower Deck (BRADEN) (2 of 2)

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Winch Installation - 12K Lower Deck (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	173852	WINCH INSTALLATION, LOWER DECK MOUNTED	
1	1-397-010301090	HOSE ASSEMBLY 1/2 X 90	1
2	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	17
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
5	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	18
6	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
7	1-861-010032-10	WASHER, FLAT 3/8N	6
8	1-861-010032-15	WASHER, FLAT 1/2	10
9	100600	DECAL, WARNING WINCH	1
10	107486	HOSE ASSEMBLY 1/2 X 90	1
11	140802	VALVE ASSEMBLY, PRINCE RMT	REF
12	173855	GALVANIZING OF 173601 **(NOT SHOWN)**	REF
13	173856	MOUNT, BOLT-ON WINCH ACCELERATOR	1
14	202702-10-8S	ADAPTER	1
15	2062-10-8S	ADAPTER 90	1
16	#242 LOCKTITE	LOCKTITE 242 BLUE REMOVABLE **(NOT SHOWN)**	.10
17	3-155-010017-4	CABLE, 1/2 W/ LOOP 85 FT - 12K AND 15K	REF
18	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
19	3-174-010039036	CHAIN, 1/2 X 36 GR7	1
20	3-481-010006	MOTOR, HYD. - 12K **(SEE PAGE 1-101)**	1
21	3-720-010010	SPRING COMP LEVEL WIND	1
22	3-873-010122	WINCH ASSEMBLY - 12K **(SEE PAGE 1-83)**	1
23	3-120-010124	BATTERY CLAMP BRACKET	1
24	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1

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Figure 1-48: Winch Items - 12,000 Lb. (BRADEN)

Winch Items - 12,000Lb. (BRADEN)

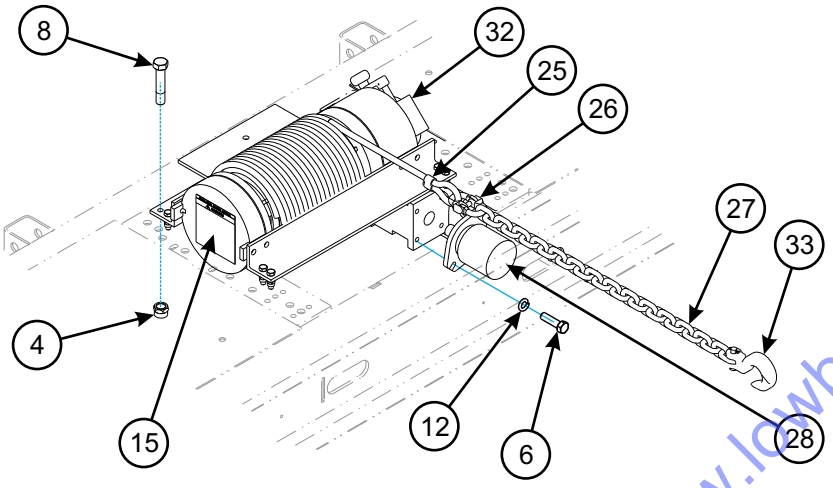
ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010122		WINCH ASSEMBLY 12K - BRADEN	
1	81006	81006	WORM HOUSING ASSEMBLY	1
1A	18078	18078	BUSHING	1
2	81009	81009	COVER ASSEMBLY WORM HOUSING	1
2A	11368	11368	BUSHING	1
3	18032	18032	HOUSING SAFETY BRAKE	1
4	23303	23303	CONTAINER BEARING	2
5	81530	81530	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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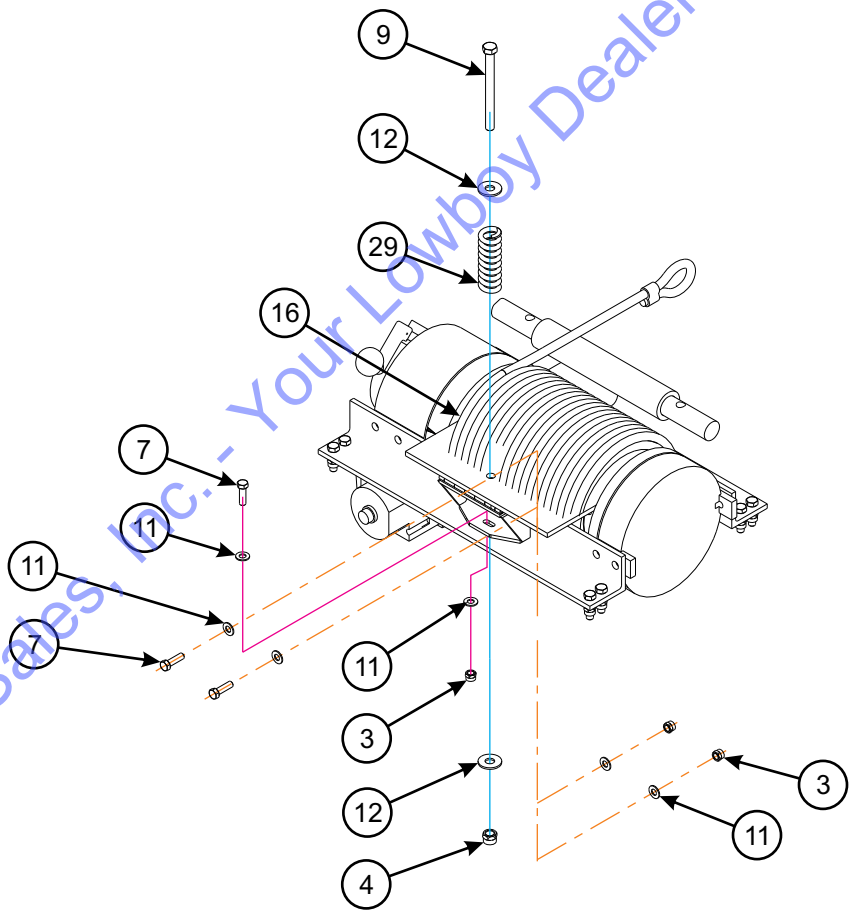
Winch Items - 12,000Lb. (BRADEN)

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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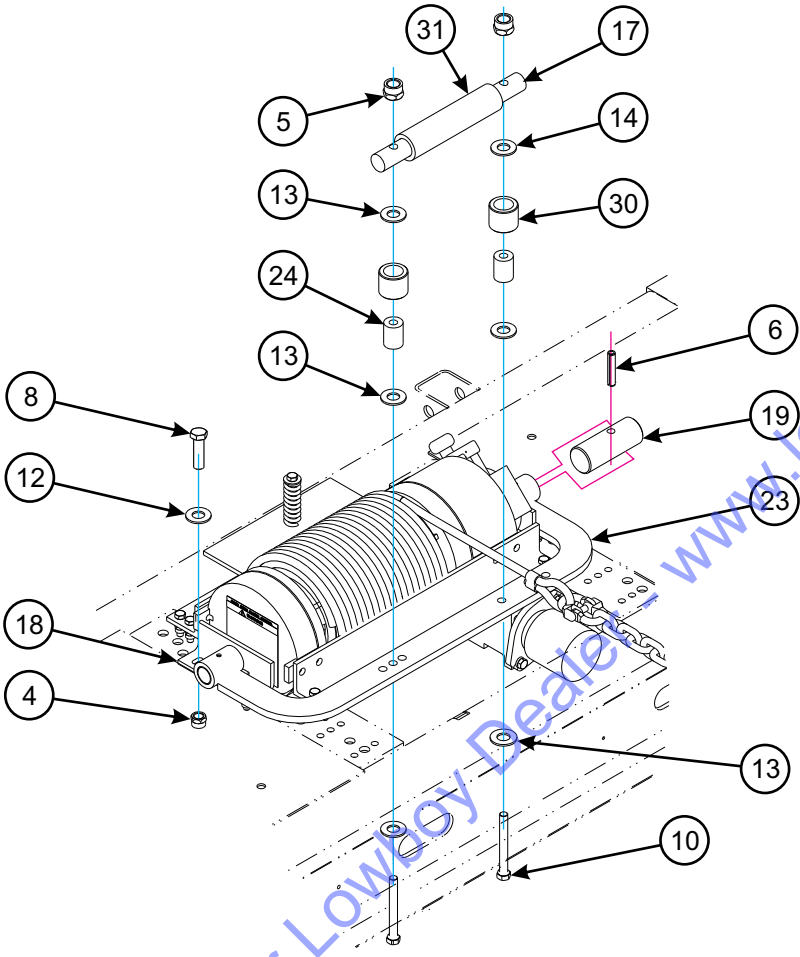
WINCH ASSEMBLY



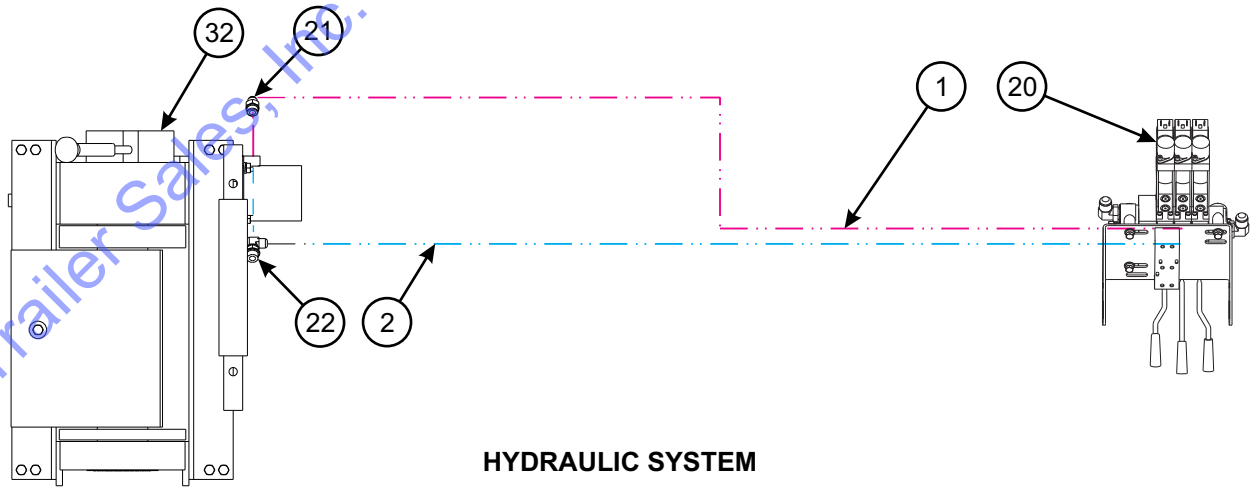
SPRING TENSIONER ASSEMBLY

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Figure 1-49: Winch Installation - 20K Upper Deck (BRADEN) (1 of 2)



CABLE ROLLER GUIDE ASSEMBLY



HYDRAULIC SYSTEM

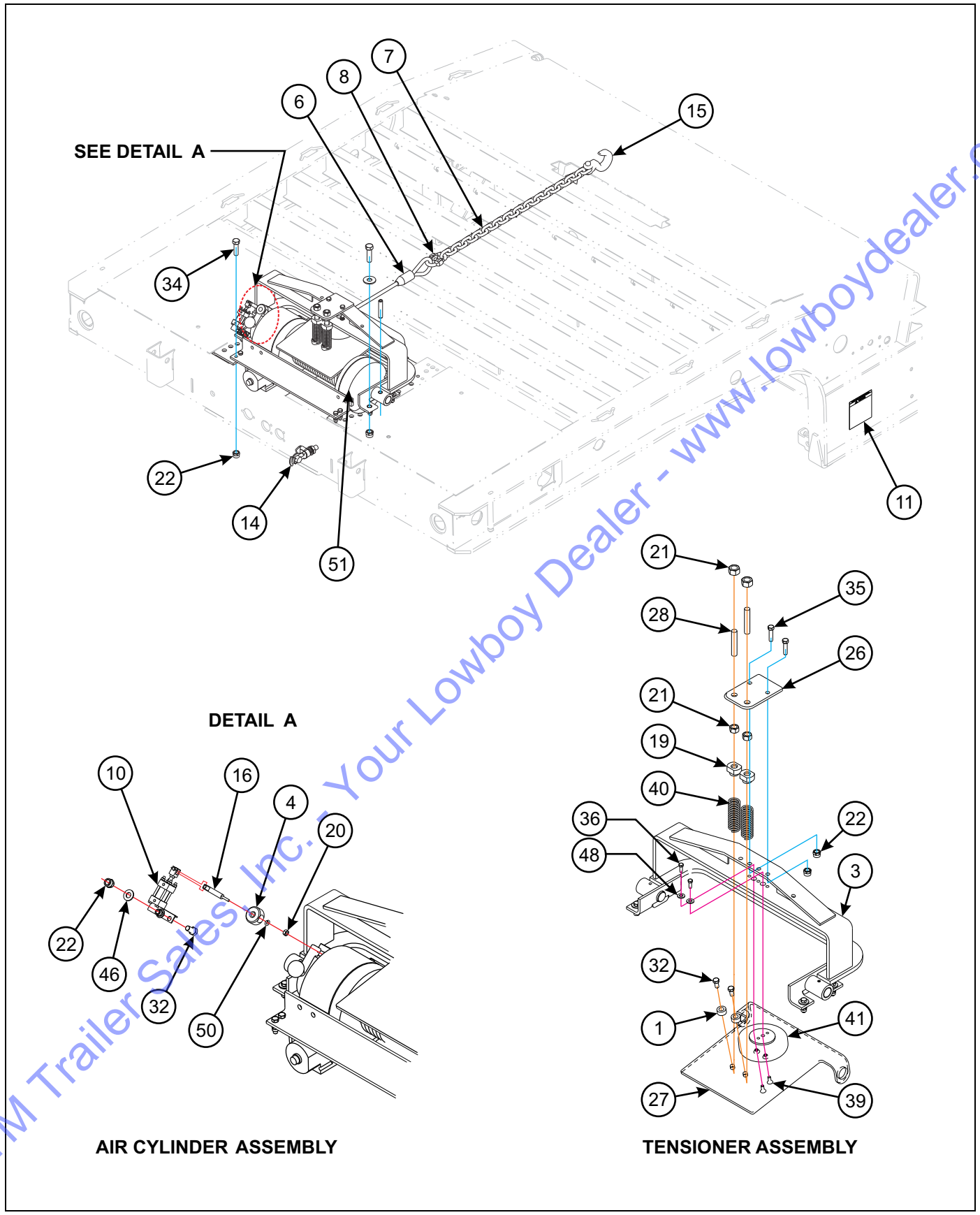
Figure 1-50: Winch Installation - 20K Upper Deck (BRADEN) (2 of 2)

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Winch Installation - 20K Upper Deck (BRADEN)

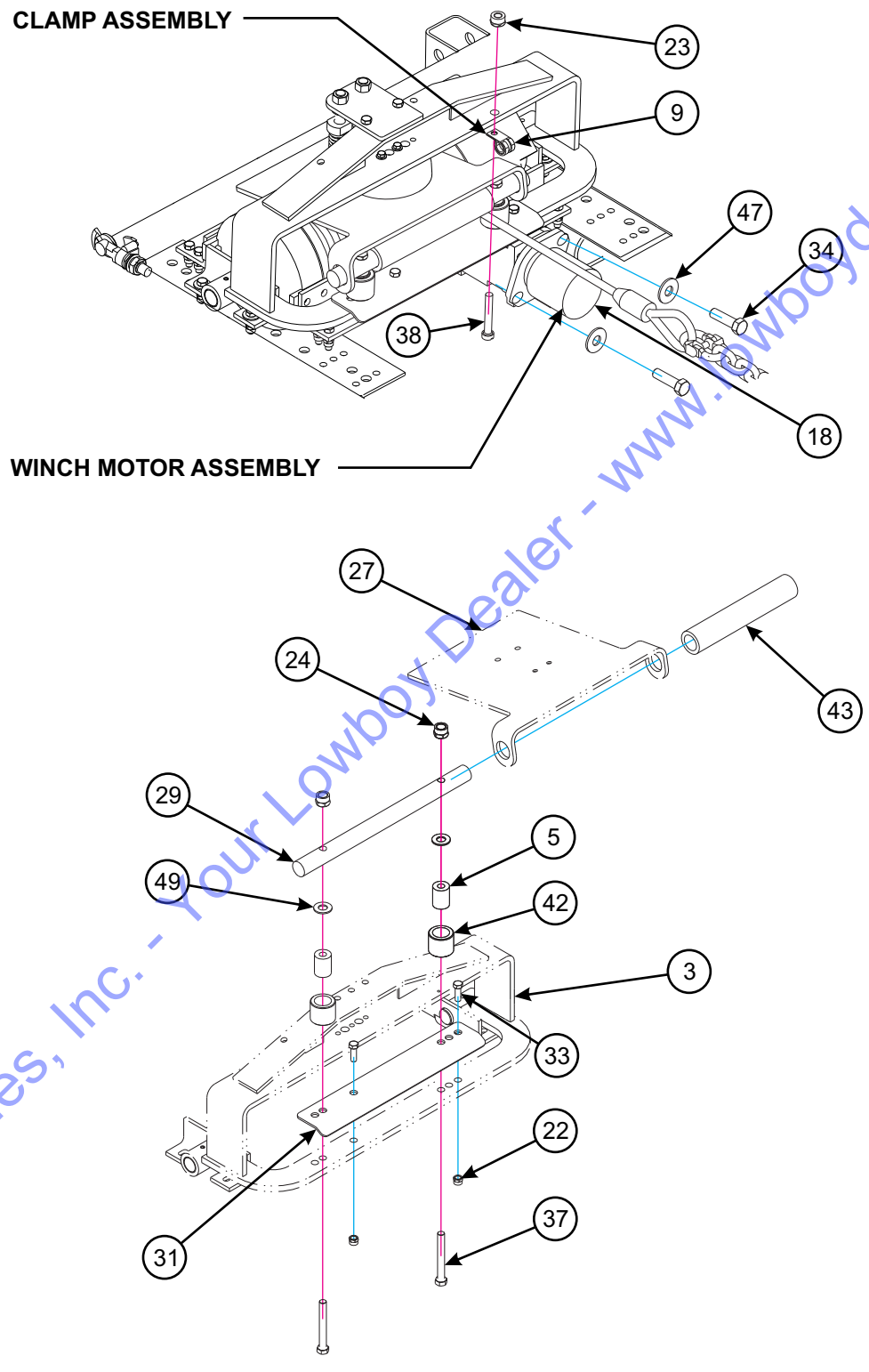
ITEM	PART NO.	DESCRIPTION	QTY	
	3-873-010140-01	WINCH, 20K SPRING TENSION	*	
	119624	WINCH, 20K SPRING TENSION - CABLE, RLR, BRD		*
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9	13
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	--	2
6	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	--	2
7	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3	3
8	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10	14
9	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1	1
10	1-654-010059-16	SCREW, HEX HEAD CAP 5/8-11 X 5-1/2 GR5	--	2
11	1-861-010032-10	WASHER, FLAT 3/8N	6	6
12	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2	6
13	1-861-010032-18	WASHER, FLAT 5/8N -20K	--	6
14	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2	2
15	100600	DECAL, WARNING, BRADEN WINCH **(SEE PAGE 1-137)**	1	1
16	102186	WINCH TENSIONER, 20K BRADEN SPRING	1	1
17	102188	ROD, PIVOTING GUIDE, 20K WINCH	--	1
18	119621	ANCHOR, CABLE GUIDE WINCH	--	2
19	119622	PIN, PIVOT, WINCH ROLLER 410	--	2
20	148241	VALVE ASSEMBLY, 3-SPOOL 400 **(SEE PAGE 1-23)**	REF	REF
21	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1	1
22	2062-10-8s	ADAPTER, 90, #10 O-RING - #8 TUBE	1	1
23	3-125-010464	BRACKET, WELDMENT, WINCH ROLLER 660	--	1
24	3-150-010196	BUSHING, WINCH ROLLER-SIDE-600	--	2
25	3-155-010018-6	CABLE, 5/8, WITH LOOP, 85 FEET	REF	REF
26	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1	1
27	3-174-010039036	CHAIN, 1/2 X 36” GRD7	1	1
28	3-481-010007	MOTOR HYD. 12.9 CU. IN/REV, SAE B **(SEE PAGE 1-101)**	1	1
29	3-720-010010	SPRING COMPRESSION	1	1
30	3-831-010172	TUBE, WINCH ROLLER - SIDE 600	--	2
31	3-873-010182	TUBE, ROLLER TOP-600, 20K	--	1
32	3-873-010123	WINCH ASSEMBLY 20K **(SEE PAGE 1-83)**	1	1
33	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1	1

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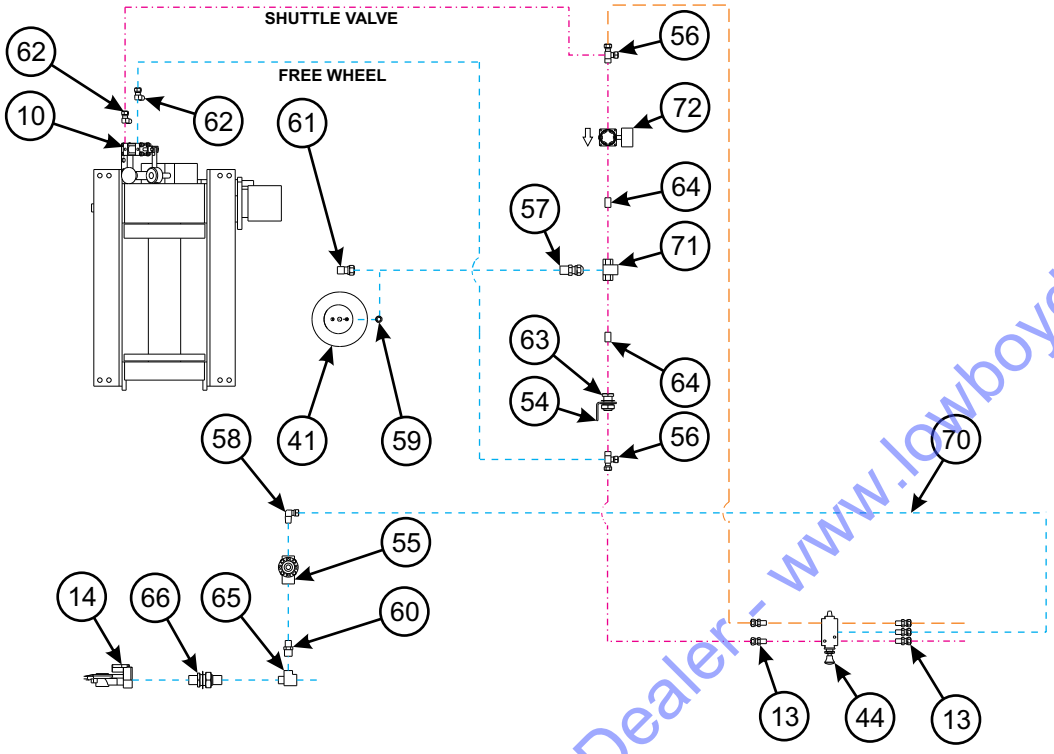
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Figure 1-51: Winch Installation - 20K Air Tension/Release (BRADEN) (1 of 3)

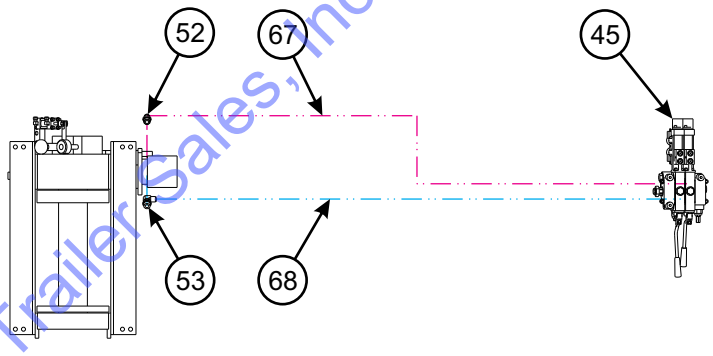


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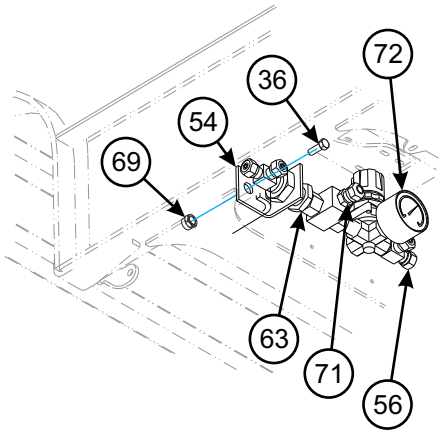
Figure 1-52: Winch Installation - 20K Air Tension/Release (BRADEN) (2 of 3)



AIR SYSTEM



HYDRAULIC SYSTEM



BRACKET ASSEMBLY

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Figure 1-53: 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	1-297-010007-04	FITTING, AIR, 1/4 TUBE X X 1/8 NPT	5
14	108801	GLAD HAND, RED AIR	REF
15	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1
16	107369	LEVER WINCH FREE SPOOL	1
17	#242 LOCKTITE	LOCKTITE, #242, BLUE REMOVABLE **(NOT SHOWN)**	.10
18	3-481-010007	MOTOR HYD. **(SEE PAGE 1-101)**	1
19	3-522-010017	NUT F/W SPRING TENSION	2
20	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
21	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
22	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	18
23	1-512-010004-03	NUT, HEX LOCK #10-24	1
24	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
25	119622	PIN, PIVOT WINCH ROLLER **(NOT SHOWN)**	2
26	3-565-011688	PLATE F/W SPRING TENSION	1
27	102187	PLATE, WINCH TENSIONER	1
28	RTR7999X4ZP	ROD THREADED	2
29	102188	ROD, PIVOTING GUIDE	1
30	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8 **(NOT SHOWN)**	2
31	143246	RUB BAR, CABLE GUIDE WINCH	1
32	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	4
33	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
34	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	14
35	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
36	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
37	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
38	1-654-010024055	SCREW, MACH. #10-24 X 1-1/4	1
39	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
40	3-720-010035	SPRING	2
41	3-720-010042	SPRING, AIR BAG, 6-1/2	1
42	3-831-010172	TUBE, ROLLER SIDE	2
43	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	1
44	139552	VALVE AIR, 5WAY/2POS, 1/8 NPT	1
45	140802	VALVE ASSEMBLY **(SEE PAGE 1-21)**	REF
46	1-861-010032-14	WASHER, FLAT 1/2N	2
47	1-861-010032-15	WASHER, FLAT 1/2W	6

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

ITEM	PART NO.	DESCRIPTION	QTY.
48	1-861-010032-10	WASHER, FLAT 3/8N	2
49	1-861-010032-18	WASHER, FLAT 5/8N	2
50	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
51	3-873-010123	WINCH ASSEMBLY 20K **(SEE PAGE 1-95)**	1
52	202702-10-8S	ADAPTER	1
53	2062-10-8S	ADAPTER 90	1
54	3-120-010445	BRACKET, PRESSURE REGULATOR	1
55	905-54-107	BRAKE PROTECTION VALVE	1
56	1-297-010011-02	FITTING, AIR M/RUN TEE	2
57	1-297-010007-05	FITTING, AIR 1/4	1
58	1-297-010008-07	FITTING, AIR 90	1
59	1-297-010031-02	FITTING, BRASS PIPE	1
60	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
61	1-297-010032-03	FITTING, AIR 90	1
62	1-297-010008-05	FITTING, AIR 90	2
63	1-297-010022-02	FITTING, AIR ANCHOR	1
64	1-297-010020-02	FITTING, BRASS PIPE	2
65	1-297-010018-03	FITTING, 1/4 TEE	1
66	55B61	FRAME UNION	REF
67	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
68	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
69	1-512-010005-05	NUT, HEX LOCK 3/8-16	1
70	1-833-010001	NYLON TUBING 1/4 OD	21
71	3-843-010039-02	VALVE AIR SHUTTLE 1/4	1
72	3-626-010004	REGULATOR, AIR PRESSURE	1

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NOTES:

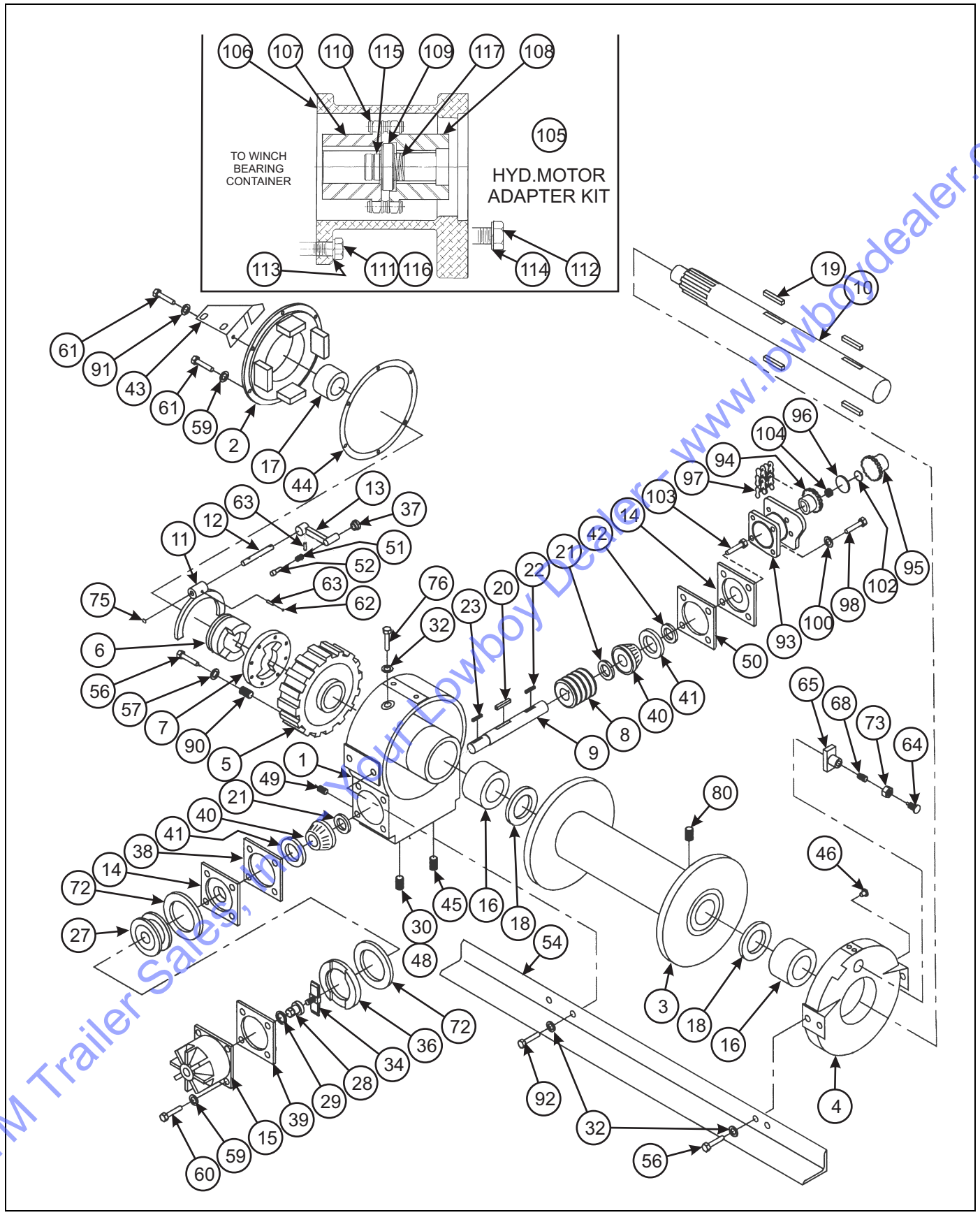


Figure 1-54: Winch Items - 20,000Lb. (BRADEN)

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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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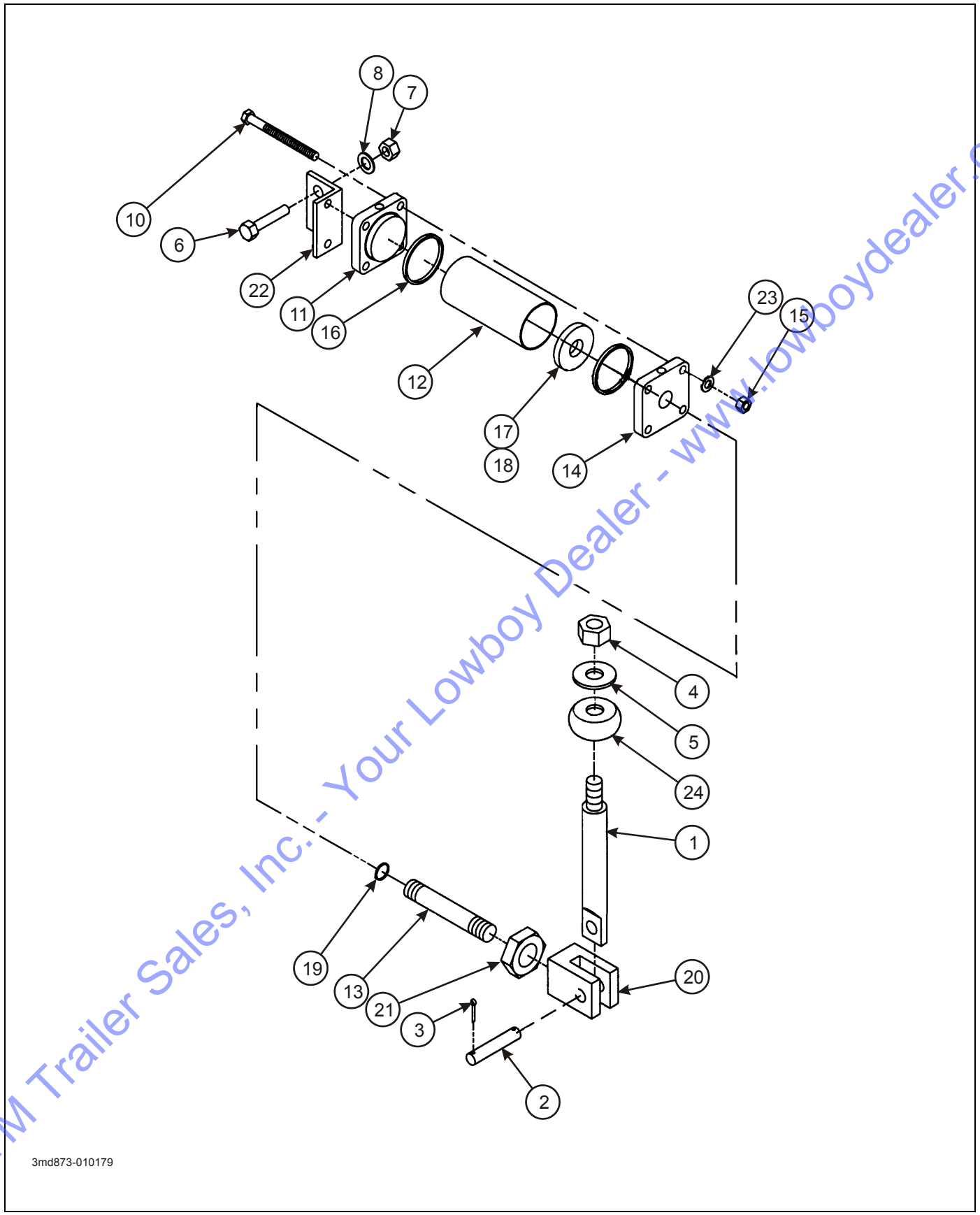
Winch Items - 20,000Lb. (BRADEN)

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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NOTES:



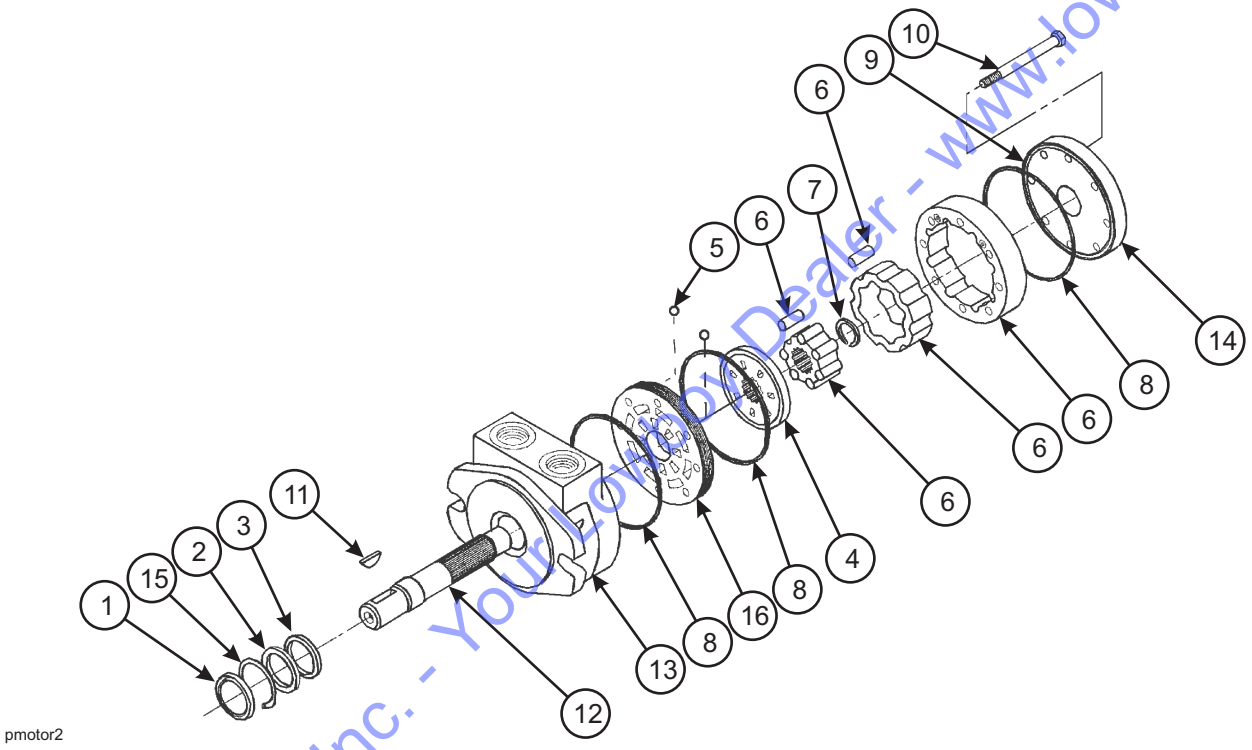
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Figure 1-55: Winch - Air Shift Cylinder

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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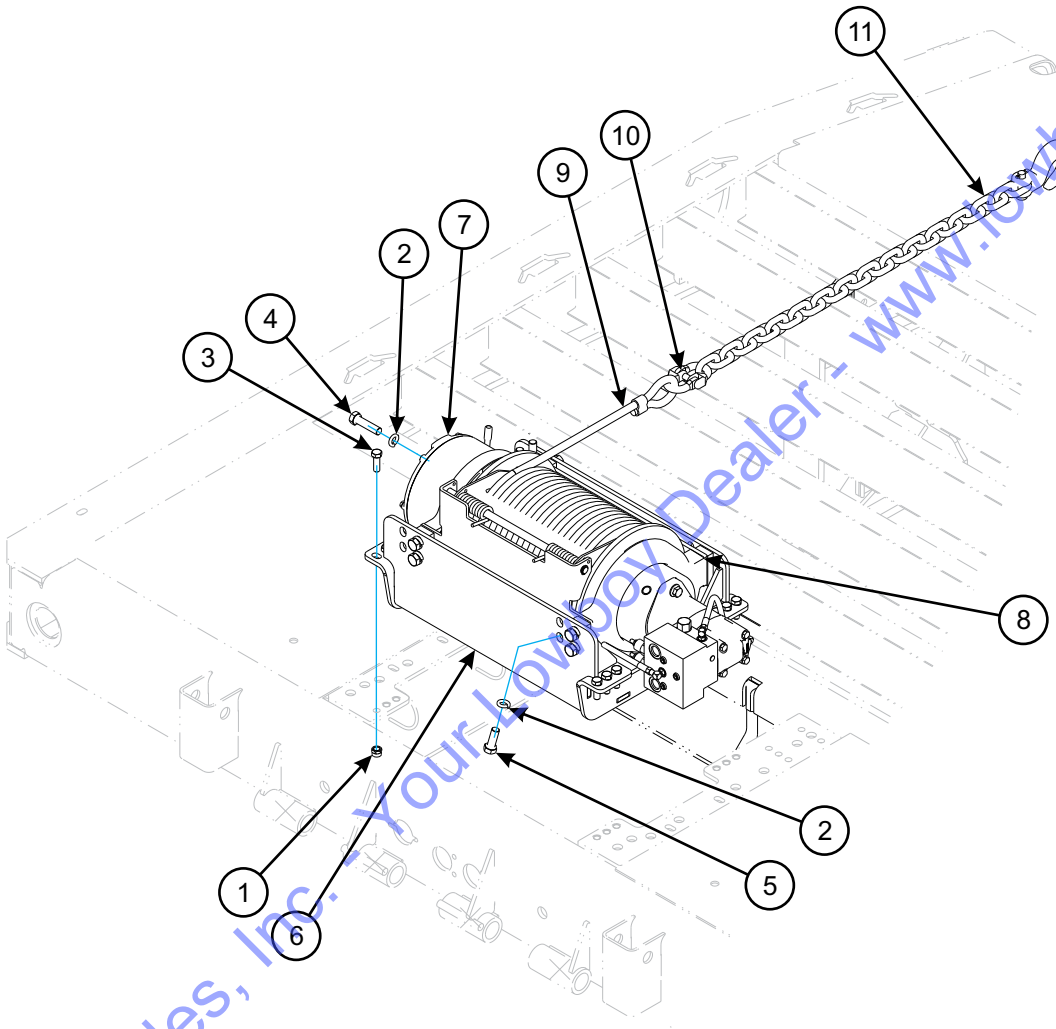
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Figure 1-56: Winch - Motor Assembly

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

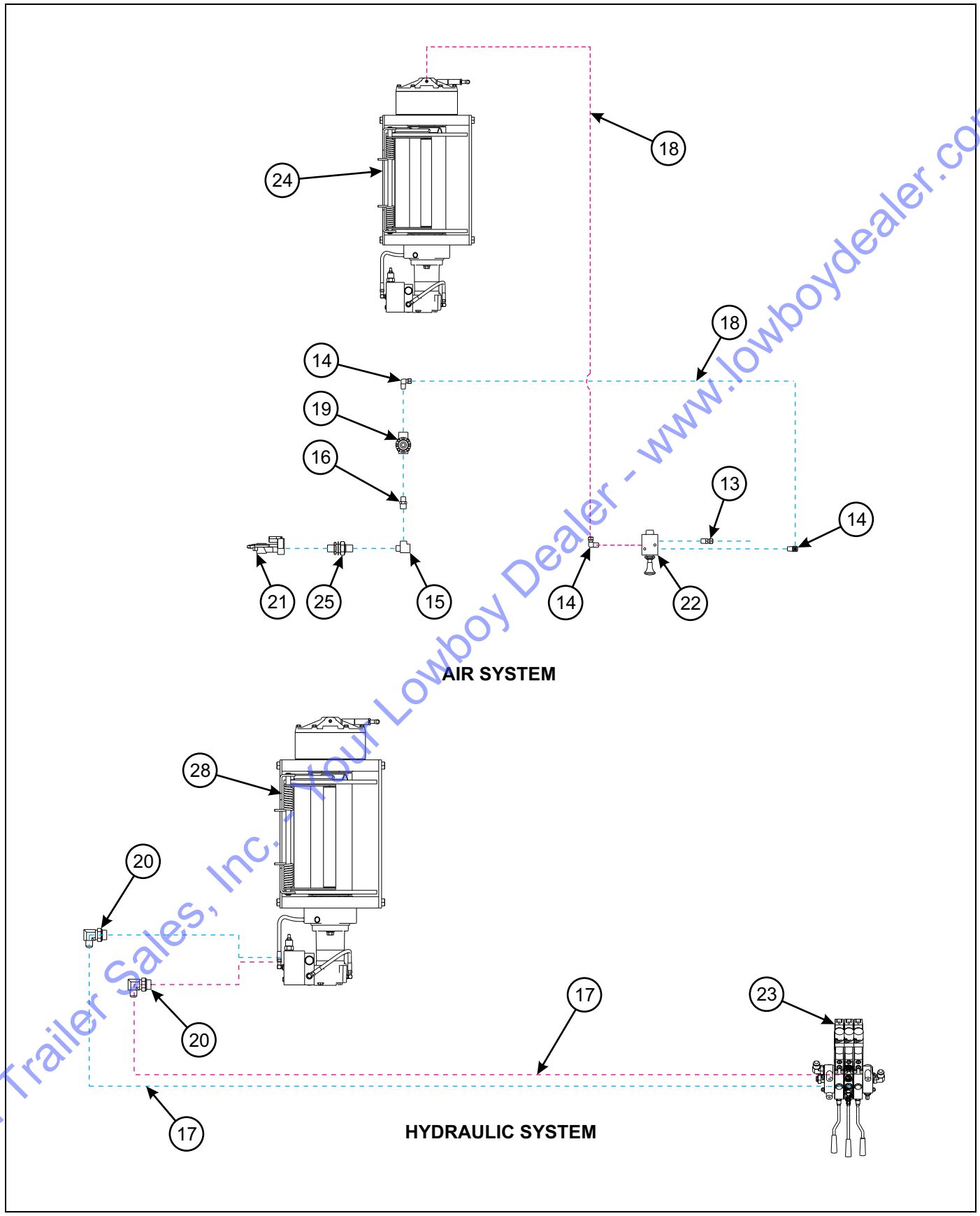
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GENERAL ASSEMBLY

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Figure 1-57: Winch Installation - 20K (WARN) (1 of 2)



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

Winch Installation - 20K (WARN)

ITEM	PART NO.	DESCRIPTION	QTY.
	151818	WINCH INSTALLATION - 20K STD	
1	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12
2	1-861-010034-15	WASHER, SPLIT LOCK 5/8	16
3	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12
4	109740	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR8	8
5	113299	SCREW, HEX HEAD CAP 5/8-11 X 2-1/2 GR8	8
6	151817	MOUNT WELDMENT, WINCH WARN	1
7	151819	WINCH, 20K WARN AR KO **(SEE PAGE 1-105)**	REF
8	154234	SPACER, WINCH	4
9	3-155-010018-6	CABLE, 5/8 X 85’	REF
10	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
11	3-174-010039036	CHAIN 1/2X36” GRD7	1
12	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1
13	1-297-010007-05	FITTING, AIR	1
14	1-297-010008-07	FITTING, AIR 90	3
15	1-297-010018-03	FITTING, BRS PIPE ST TEE	REF
16	1-297-010019-05	FITTING, BRS PIPE HEX	1
17	1-397-010302172	HOSE ASSEMBLY 1/2X174	2
18	1-833-010001	TUBING, NYLON 1/4 OD	34’
19	905-54-107	BRAKE PROTECTION VALVE	1
20	2062-12-8S	ADAPTER	2
21	108801	GLAD HAND, RED AIR	REF
22	134657	VALVE, AIR 3 WAY/2 POS	1
23	139525	VALVE ASSEMBLY, 3 SPOOL	REF
24	151819	WINCH, 20K WARN AIR KICKOUT	REF
25	55B61	FRAME UNION	REF

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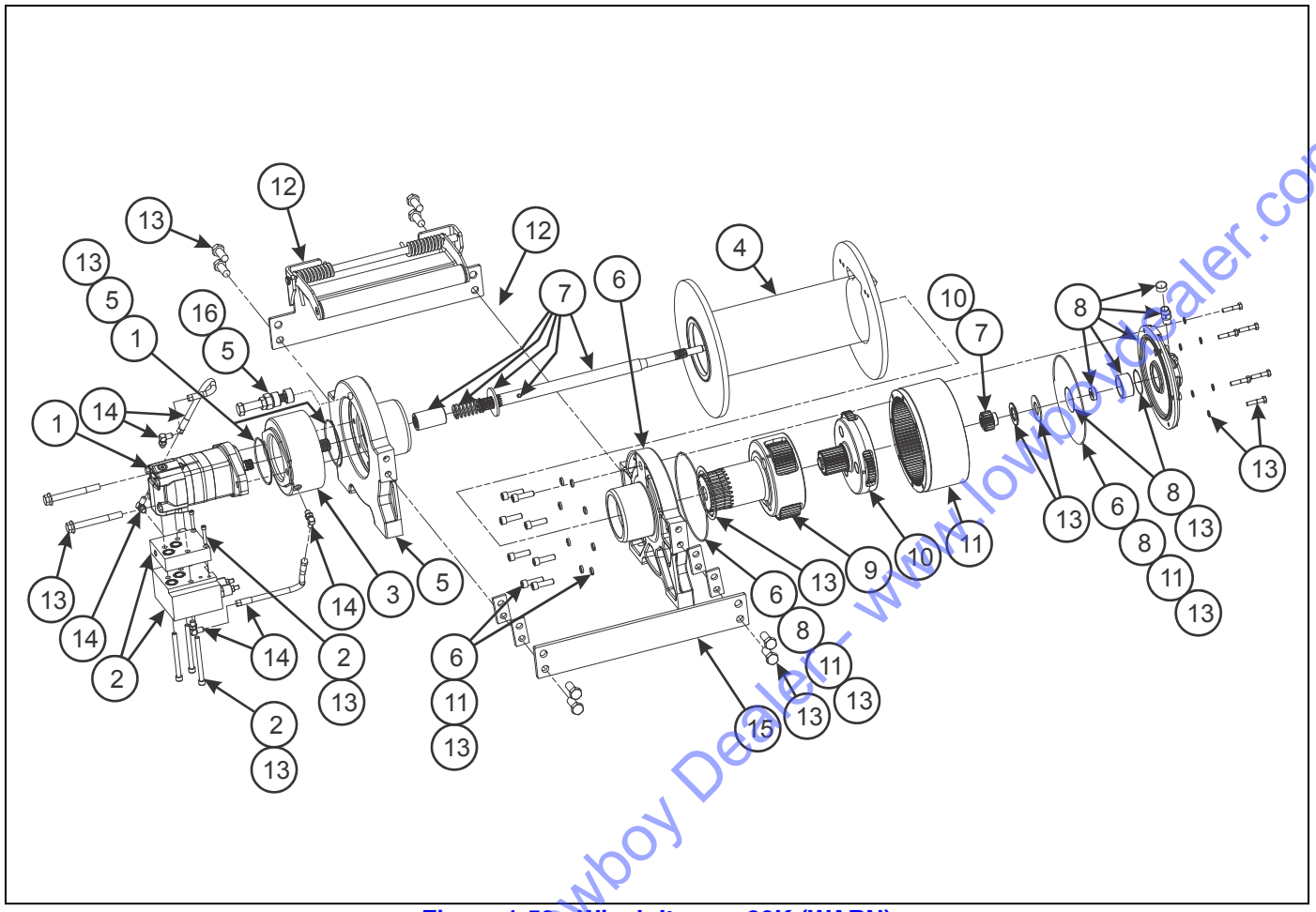
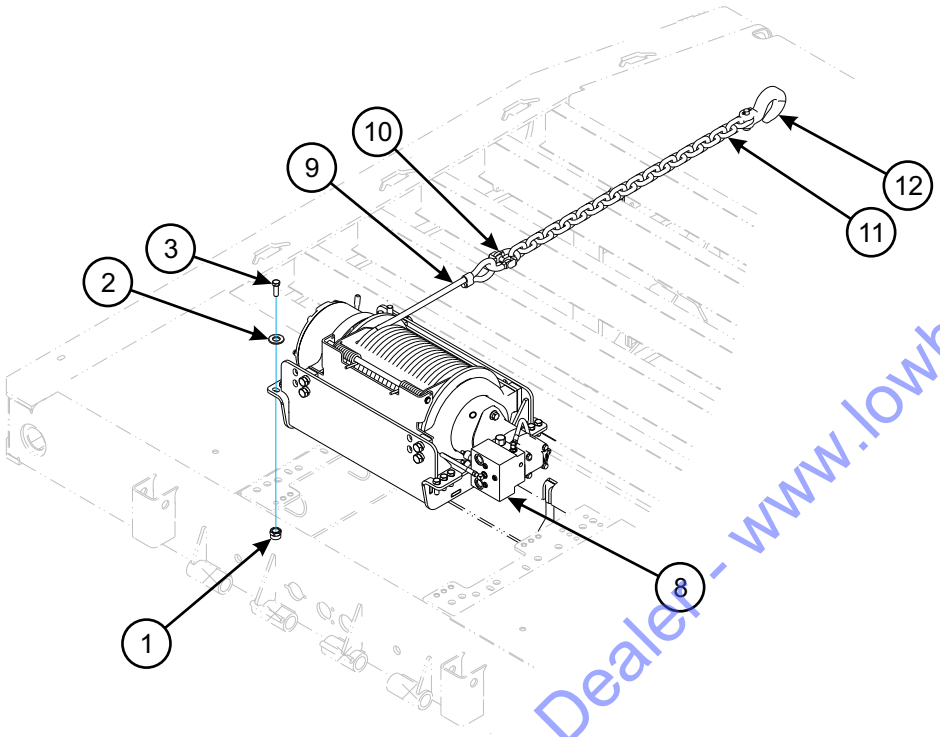


Figure 1-59: Winch Items - 20K (WARN)

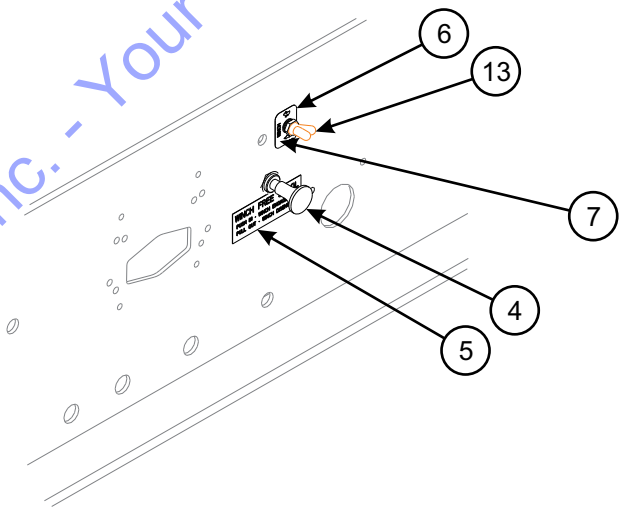
Winch Items - 20K (WARN)

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

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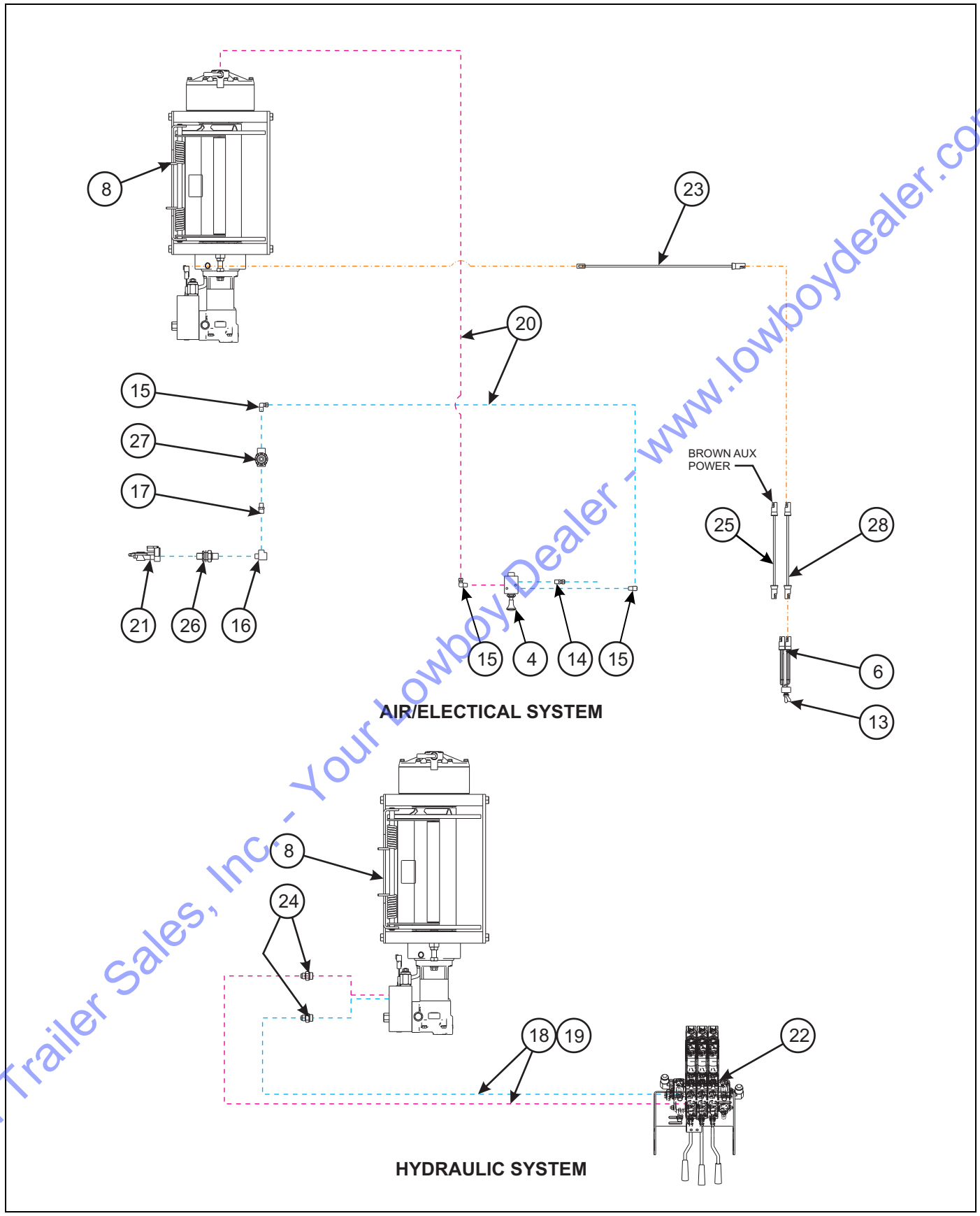
GENERAL ASSEMBLY



SWITCH LOCATIONS

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Figure 1-60: Winch Installation - 20K 2 Speed (WARN) (1 of 2)



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Figure 1-61: Winch Installation - 20K 2 Speed (WARN) (2 of 2)

Winch Installation - 20K 2 Speed (WARN)

ITEM	PART NO.	DESCRIPTION		
	178382	WINCH INSTALLATION, 20K 2 SPEED - 900 HD	*	
	178383	WINCH INSTALLATION, 20K 2 SPEED - 900 STD		*
1	1-512-010002-09	NUT, HEX LOCK 1/2-13 GRC	12	12
2	1-861-010032-14	WASHER, FLAT 1/2	12	12
3	108439	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR8	12	12
4	134657	VALVE, AIR 3 WAY/2 POS	REF	REF
5	135184	DECAL, WINCH FREE SPOOL	1	1
6	150117	TOGGLE SWITCH SEALED SPST	REF	REF
7	174043	DECAL, WINCH HI/LO	2	2
8	174553	20K WARN WINCH ASSEMBLY	REF	REF
9	3-155-010018-6	CABLE, 5/8 X 85’	REF	REF
10	3-174-010038	CHAIN LINK, CONNECTING 1/2	1	1
11	3-174-010039036	CHAIN, 1/2 X 36	1	1
12	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1	1
13	81264	RUBBER BOOT FOR ELECT SWITCH	REF	REF
14	1-297-010007-05	FITTING, AIR	REF	REF
15	1-297-010008-07	FITTING, AIR 90	3	3
16	1-297-010018-03	FITTING, BRASS PIPE TEE	REF	REF
17	1-297-010019-05	FITTING BRASS PIPE HEX	1	1
18	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	2	--
19	174188	HOSE ASSEMBLY 1/2 X 182	--	2
20	1-833-010001	TUBING, NYLON 1/4 OD	34’	34’
21	108801	GLAD HAND, RED AIR	REF	REF
22	139525	VALVE ASSEMBLY, 3 SPOOL	REF	REF
23	164053	HARNESS, BRANCH WORK LIGHT 102”’	1	1
24	202702-10-8S	ADAPTER	2	2
25	3-368-010252	HARNESS ASSY, BULKHEAD LIGHT EXT	1	1
26	55B61	FRAME UNION	REF	REF
27	905-54-107	BRAKE PROTECTION VALVE	1	1
28	150111	HARNESS 300 IN MALE/FEMALE BULLET	1	1

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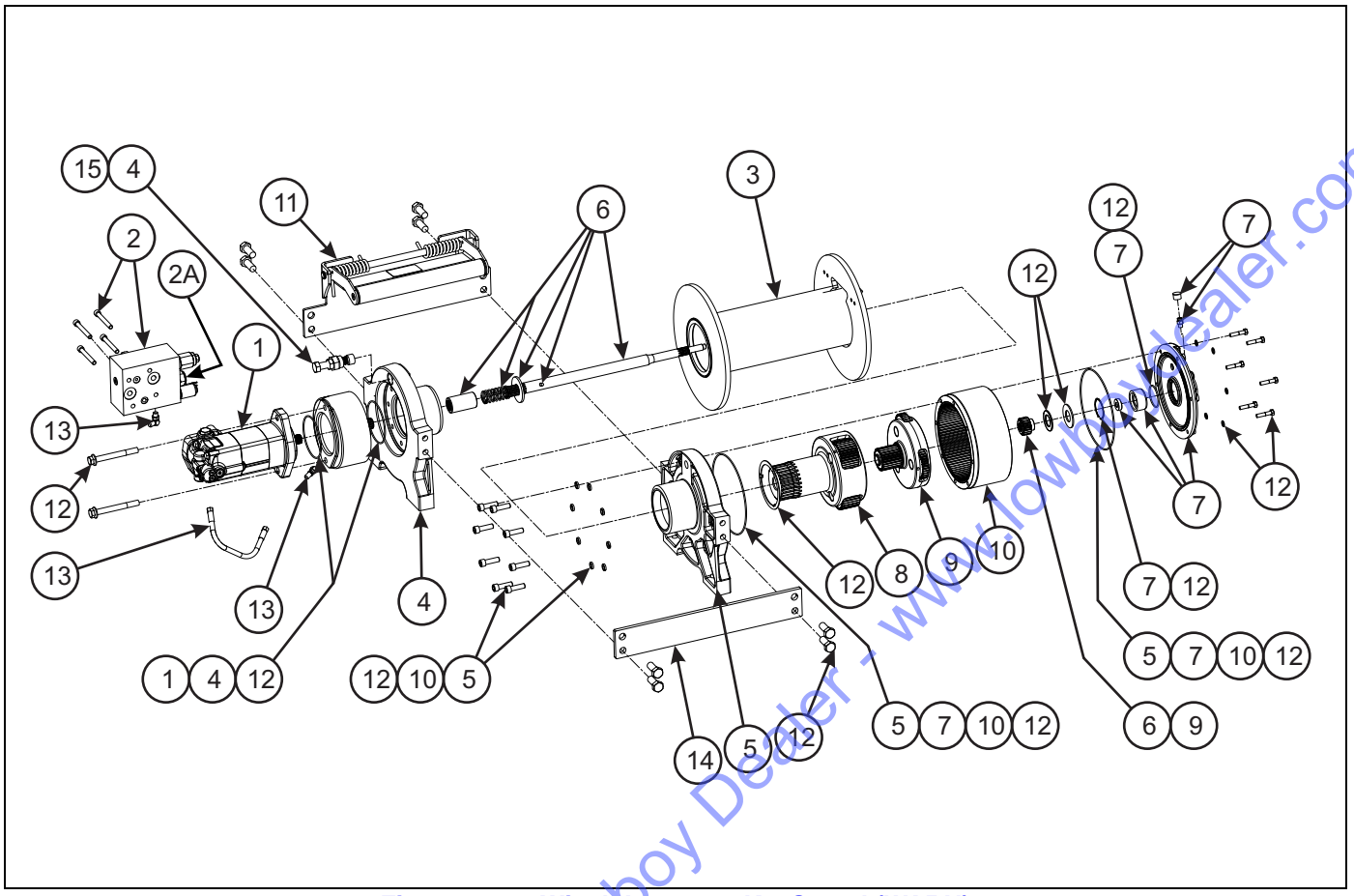
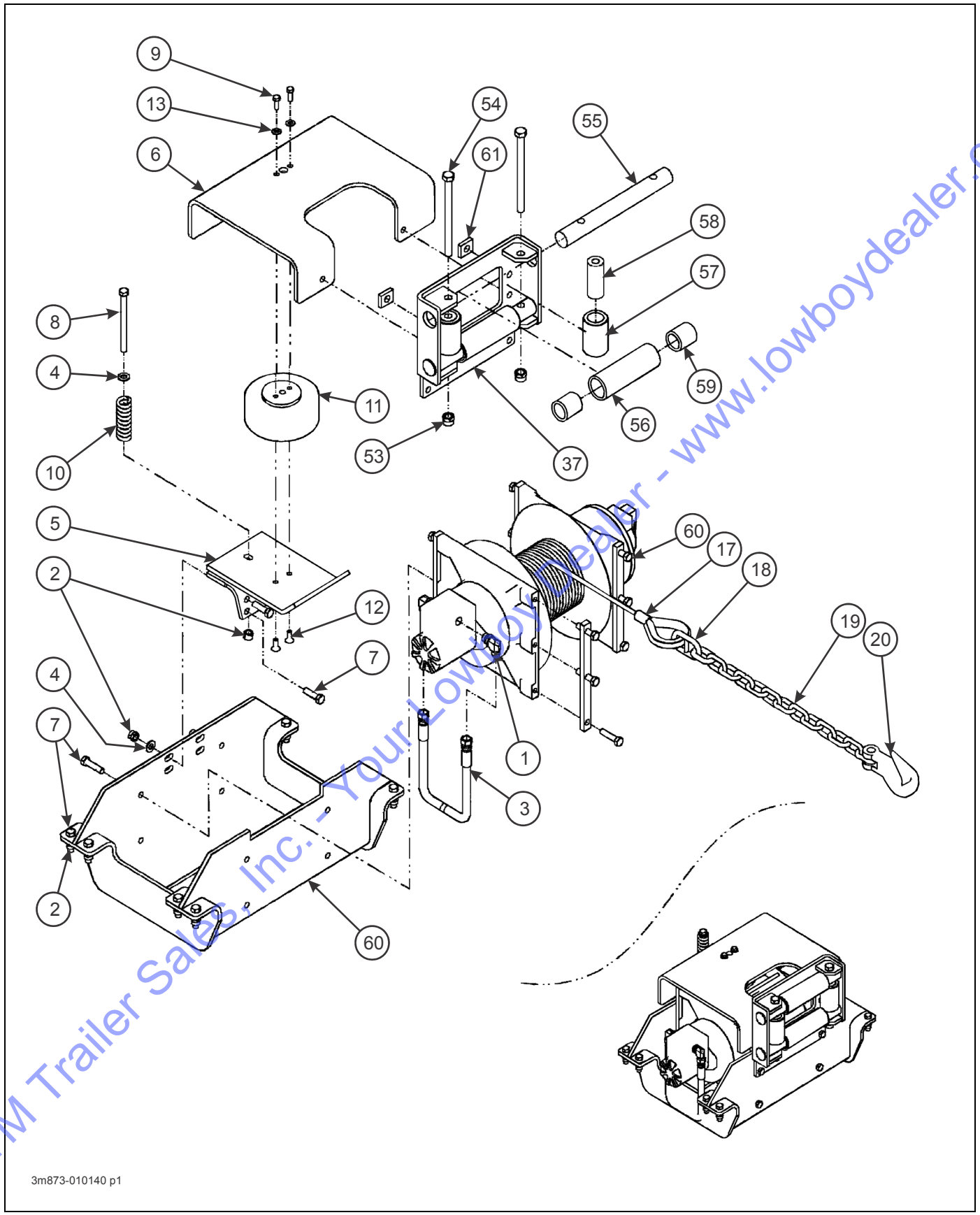


Figure 1-62: Winch Items - 20K 2 Speed (WARN)

Winch Items - 20K 2 Speed (WARN)

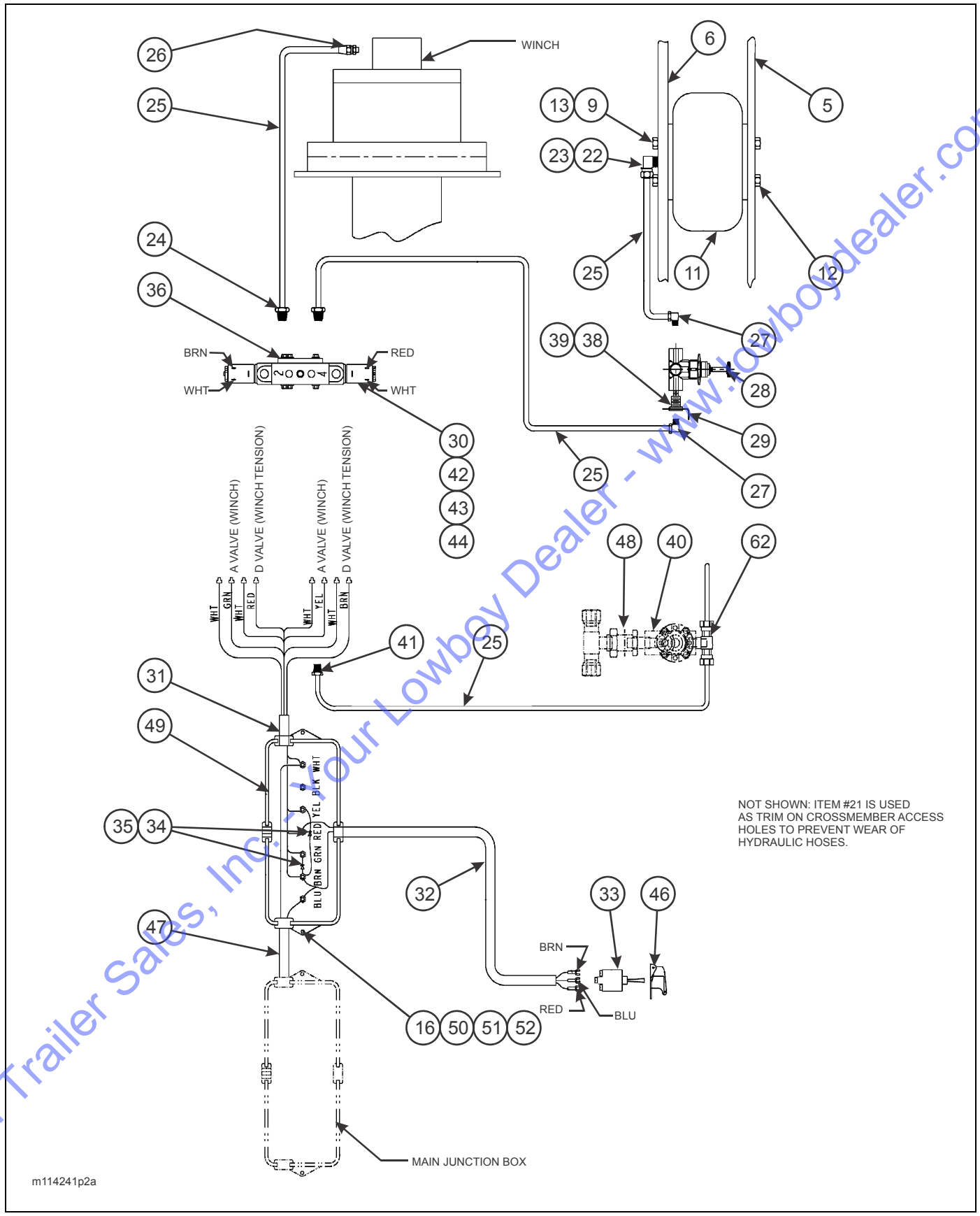
ITEM	PART NO.	DESCRIPTION	QTY.
	167521	WINCH, 20K WARN 2 SPEED	
1	178718	SERVICE KIT, MOTOR HYD 11.9 CI-SPD	1
2	178715	SERVICE KIT, MANIFOLD HYDRAULIC	1
2A	199104	SOLENOID FOR 2SP WARN 20K-30K	1
3	162208	SERVICE KIT, DRUM ASSEMBLY 20K LONG	1
4	178999	SERVICE KIT, DRUM RETARDER DRUM SUPPORT	1
5	162210	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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Figure 1-63: Winch Installation - 12K, 15K, & 20K Upper Deck (DP) (1 of 2)



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Figure 1-64: Winch Installation - 12K, 15K, & 20K Upper Deck (DP) (2 of 2)

Winch Installation - 12K, 15K, & 20K Upper Deck (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	114241	WINCH INSTALLATION 12K, 15K, 20K DP	REF
	111351	WINCH ROLLER GUIDE DP WINCH (OPTION) **(ITEMS 37, 53-59, 61)**	
1	2062-8-8S	ADAPTER 90	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13	13
3	1-397-010301208	HOSE ASSEMBLY 1/2 X 208	2
4	1-861-010032-14	WASHER, FLAT 1/2	5
5	106379	WINCH TENSIONER WELDMENT	1
6	106385**	PLATE AIR TENSION	1
7	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	12
8	1-654-010055-17	SCREW, HEX HEAD CAP 1/2 -13 X 6 GR5	1
9	1-654-010036-05**	SCREW, HEX HEAD CAP 3/8-16 X 1 GR8	2
10	3-720-010010	SPRING COMP LEVEL WIND	1
11	3-720-010042**	SPRING, AIR 6-1/2	1
12	1-654-010141-04**	SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8	2
13	1-861-010032-10	WASHER, FLAT 3/8 (*)	2
16	1-654-010047-06**	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
17	3-155-010018-6	CABLE, 5/8 W/ LOOP - 20K	REF
	3-155-010017-4	CABLE, 1/2 W/ LOOP 85 FT - 12K & 15K	REF
18	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
19	3-174-010039036	CHAIN, 1/2 X 36 GR7	1
20	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1
21	3-201-010001036**	CONDUIT PLASTIC FLEX **(NOT SHOWN)**	1
22	1-297-010031-02**	FITTING, BRASS PIPE	1
23	1-297-010032-03**	FITTING, AIR 90	1
24	1-297-010007-04**	FITTING, AIR	2
25	1-833-010001**	TUBING, NYLON 1/4	AR
26	1-297-010007-05**	FITTING, AIR 1/4	1
27	1-297-010008-07**	FITTING, AIR 90	2
28	3-626-010004**	REGULATOR, AIR PRESSURE	1
29	3-120-010445**	BRACKET, PRESSURE REGULATOR	1
30	3-843-010022**	VALVE, PNEUMATIC 4 WAY	1
31	3-368-010125**	HARNESS ASSEMBLY	1
32	3-368-010187**	HARNESS, REMOTE SWITCH	1
33	1-765-010065**	TOGGLE SWITCH SPDT	1
34	2-272-010109**	ZENOR DIODE **(W/ REMOTE)**	2
35	3-272-010018**	HEAT SHRINK INSULATOR **(W/ REMOTE)**	2
36	3-136-010001-01**	BREATHER, PNEUMATIC EXHAUST **(W/O REMOTE)**	2
37	111387	BRACKET WELDMENT FAIRLEAD	1
38	1-297-010022-02**	FITTING, AIR ANCHOR	1
39	1-297-010020-02**	FITTING BRASS PIPE	1
40	905-54-107**	VALVE & FILTER PRESSURE	REF
–	167692	FILTER	1
41	1-297-010008-05**	FITTING, AIR 90	1
42	1-654-010024014**	SCREW, MACH SLOT FIL HEAD #6-32 X 1-1/2 **(W/O REMOTE)**	2
43	1-861-010032-01**	WASHER, FLAT #6 **(W/O REMOTE)**	2
44	1-512-010003-02**	NUT, HEX LOCK #6-32 **(W/O REMOTE)**	2
46	3-348-010048**	GUARD, SWITCH - 3 POSITION	1

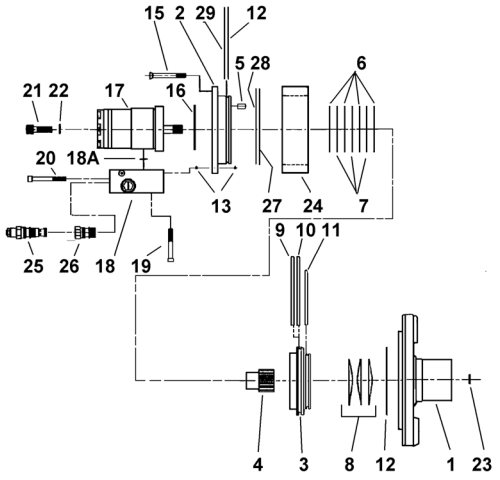
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Winch Installation - 12K, 15K, & 20K Upper Deck (DP)

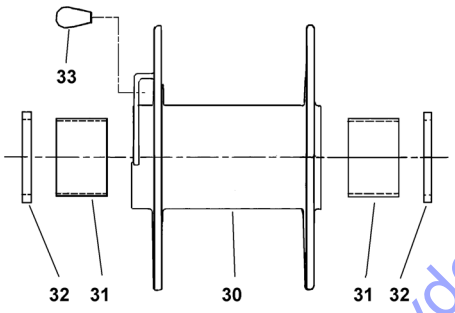
ITEM	PART NO.	DESCRIPTION	QTY.
47	3-368-010188**	HARNESS, POWER JUMPER	1
48	1-297-010019-05	FITTING, BR	REF
49	750-029**	JUNCTION BOX 7 STUD	1
50	1-512-010007-05**	NUT, HEX 1/4-20 GRB	2
51	1-861-010032-06**	WASHER, FLAT 1/4N	2
52	1-861-010034-09**	WASHER, SPLIT LOCK 1/4	2
53	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
54	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8	2
55	111383	ROD FAIRLEAD ROLLER	2
56	111384	TUBE HORIZONTAL ROLLER FAIRLEAD	2
57	111385	TUBE, VERTICAL ROLLER FAIRLEAD	2
58	111386	BUSHING, FAIRLEAD VERT ROLLER	2
59	3-150-010005	1-1/2 ID BRONZE SLEEVE BEARING	2
60	111091	WINCH DP 12K MANUAL	1
	111092	WINCH DP 12K AIR	1
	111093	WINCH DP 15K MANUAL	1
	111094	WINCH DP 15K AIR	1
	111095	WINCH DP 20K MANUAL	1
	111096	WINCH DP 20K AIR	1
		(SEE PAGE 1-115 FOR WINCH BREAKDOWNS)	
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
62	1-297-010015-03	FITTING, AIR BR TEE	1

**USED ON AIR TENSION RELEASE MODELS

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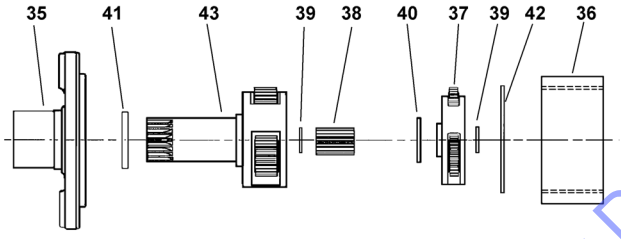
MOTOR END INSTALLATION



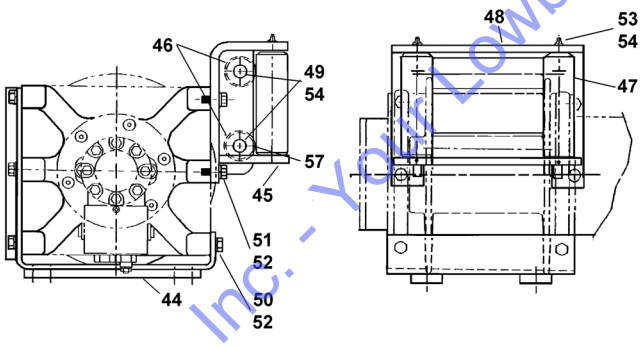
CABLE DRUM INSTALLATION



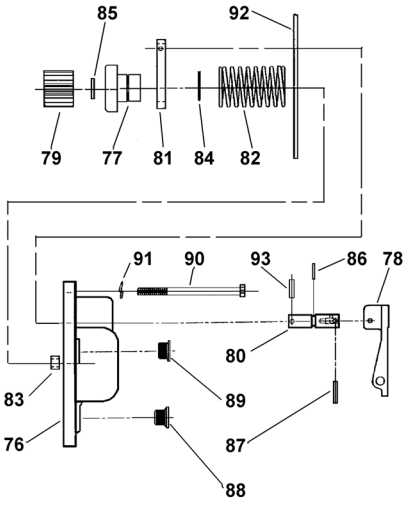
INPUT SHAFT INSTALLATION



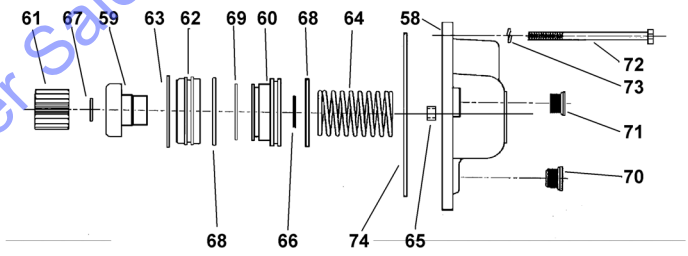
GEAR END INSTALLATION



BASE INSTALLATION



LEVER KICKOUT
GEAR END COVER INSTALLATION



121520wn

AIR KICKOUT
GEAR END COVER INSTALLATION

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Figure 1-65: Winch Items -12K, 15K, & 20K (DP)

Winch Items - 12K, 15K, & 20K (DP)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	111091		WINCH DP 12K MANUAL	
	111092		WINCH DP 12K AIR	
	111093		WINCH DP 15K MANUAL	
	111094		WINCH DP 15K AIR	
	111095		WINCH DP 20K MANUAL	
	111096		WINCH DP 20K AIR	
		MOTOR END INSTALLATION		
1	-----	13620	SUPPORT, MOTOR END	1
2	-----	13602	ADAPTER, MOTOR	1
3	-----	13603	PISTON, BRAKE	1
4	-----	13601	SHAFT, BRAKE	1
5	-----	3437	PIN, DOWEL - 3/8 X 5/8	3
6	-----	13035	PLATE, FRICTION - BRAKE	4
7	-----	13034	PLATE, STATIONARY - BRAKE	3
8	-----	3607	SPRING	3
9	-----	9851	O-RING	1
10	-----	9852	RING, BACKUP	1
11	-----	9709	O-RING	1
12	137424	9843	O-RING	2
13	137425	9612	O-RING	2
14	-----	3440	PLUG, EXPANDER **(NOT SHOWN)**	2
15	180586	4346-8	CAP SCREW, SKT HEAD FL 3/8NC X 3 GR8	6
16	141547	9637	O-RING	1
17	-----		MOTOR, HYDRAULIC -12K	
	112641	73216	MOTOR, HYDRAULIC -15K	1
	176681	73218	MOTOR, HYDRAULIC - 20K	1
18	13894	13894	VALVE ASSEMBLY, COUNTERBALANCE	1
18A	141456	9821	O-RING	2
19	180585	1167	CAP SCREW SOCKET HEAD 5/16-18 X 2	4
20	180584	4076	CAP SCREW SOCKET HEAD 1/4-20 X 4-1/2	1
21	172903	1454	CAP SCREW SOCKET HEAD 1/2-13 X 1-1/4	2
22	-----	1144	WASHER LOCK 1/2 HI COLLAR	2
23	-----	3460	RING, RETAINER 3/4 X .035T	2
24	-----	13621	SLEEVE, ADAPTER	1
25	70040	70040	CARTRIDGE	1
26	70042	70042	PLUG, SUN	1
27	137426	9600	O-RING	1
28	137427	9711	RING, BACKUP	1
29	137428	9846	RING, BACKUP	1
		CABLE DRUM INSTALLATION		
30	-----	12401	DRUM	1
31	-----	11947	BEARING - BRONZE	2
32	-----	9929	SEAL SHAFT	2
33	156528	10529	CLIP - CABLE 7/16	1
		INPUT SHAFT INSTALLATION		
34	-----	13678	INPUT SHAFT	4
		GEAR END INSTALLATION		
35	-----	13605	SUPPORT, END GEAR	1

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Winch Items - 12K, 15K, & 20K (DP)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
36	-----	81107	GEAR - RING	1
37	-----	3412	CARRIER, PRIMARY	1
38	-----	13380	GEAR, SUN	1
39	-----	13385	WASHER, THRUST	2
40	-----	12083	WASHER, THRUST NYLON J	1
41	-----	13164	WASHER, THRUST NYLON	1
42	-----	9897	O-RING	1
43	-----	13379	CARRIER ASSEMBLY, SECONDARY	1
		BASE MOUNT INSTALLATION		
44	-----	13599	BASE, MOUNTING	1
45	-----	13746	BRACKET, MOUNTING	1
46	-----	13400	ROLLER, VERTICAL	2
47	-----	12048	ROLLER, VERTICAL BUMPER	2
48	-----	12043	SHAFT, ROLLER VERTICAL, BUMPER	2
49	-----	13403	SHAFT ROLLER VERTICAL 7/8 X 9-3/8	2
50	-----	1401	CAP SCREW, HEX HEAD 1/2-13NC X 1	8
51	-----	1402	CAP SCREW, HEX HEAD 1/2-13NC X 1-1/4	4
52	-----	1495	WASHER, LOCK 1/2	12
53	-----	1000	FITTING, GREASE STR 1/8	4
54	-----	81611	BUSHING, BRONZE	8
55	-----	12113	PLATE, ID WINCH (NOT SHOWN)	1
56	-----	1165	RIVET, TYPE U (NOT SHOWN)	4
57	-----	3456	PIN, SPRING 3/16 X 13/16	4
		GEAR END COVER INSTALLATION - AIR KICKOUT		
58	-----	13370	COVER, GEAR END	1
59	-----	13372	COUPLING, DRIVE	1
60	-----	13373	PISTON - AKO	1
61	-----	13386	GEAR, SUN	1
62	-----	13296	CYLINDER, PISTON	1
63	-----	3632	RING, RETAINING ROUND	1
64	-----	2309	SPRING, COMPRESSION	1
65	-----	81612	BUSHING, BRONZE	1
66	-----	3303	RING, RETAINER	1
67	-----	3321	RING, RETAINER	1
68	-----	9672	O-RING	2
69	-----	9704	O-RING	1
70	-----	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
71	-----	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
72	-----	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
73	132106	1168	WASHER, LOCK 5/16	8
74	-----	9897	O-RING	1
75	-----	1157	CAPLUG **(NOT SHOWN)**	1
		GEAR END COVER INSTALLATION - LEVER KICKOUT		
76	-----	14182	COVER, GEAR END	1
77	-----	13372	COUPLING, DRIVE	1
78	-----	14099	LEVER, KICKOUT	1
79	-----	13386	GEAR, SUN	1
80	-----	14181	SHAFT, SIFTER	1

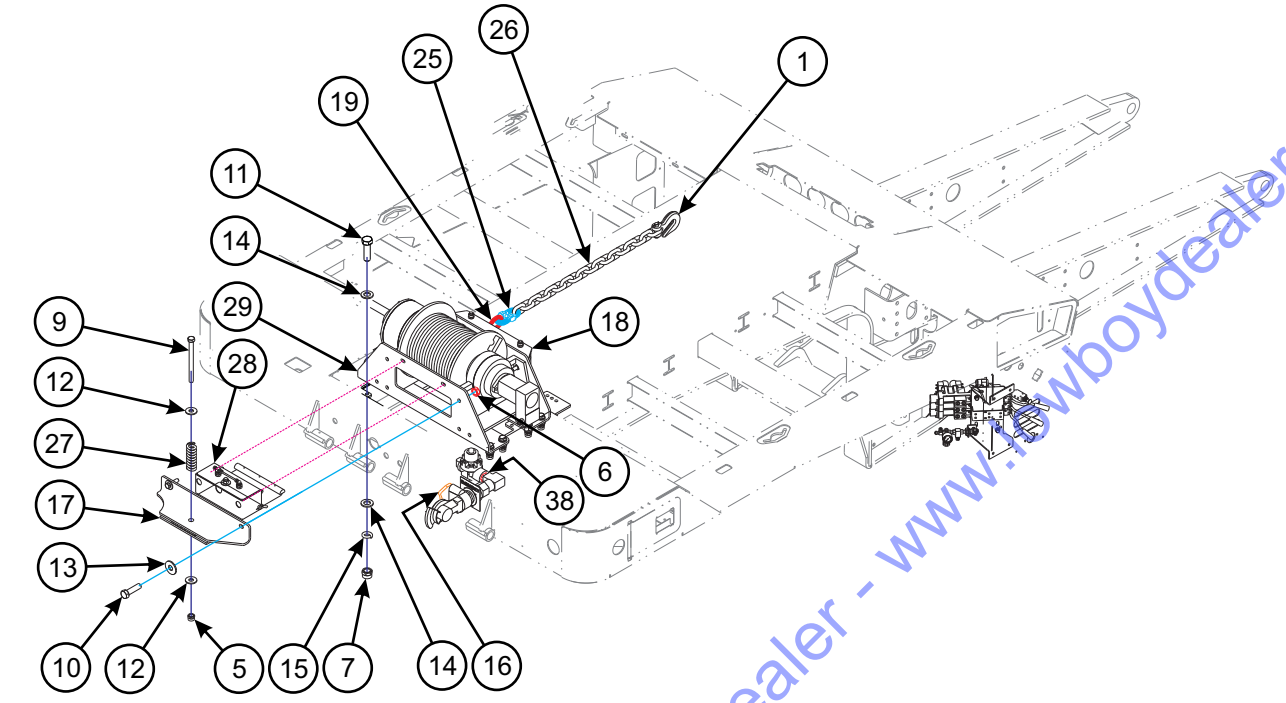
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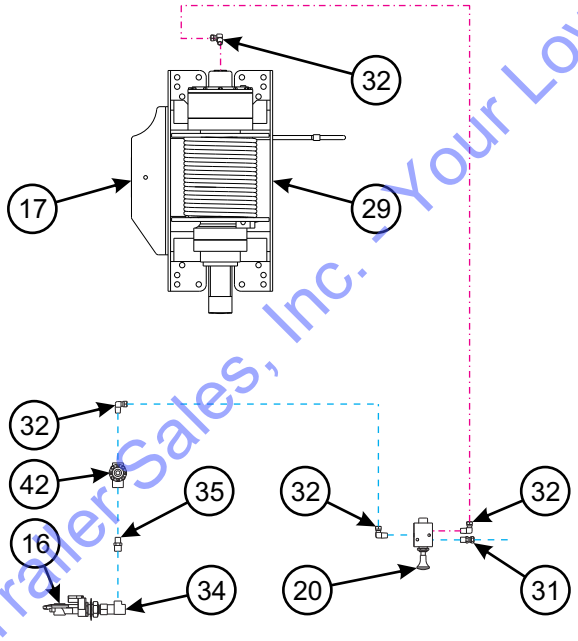
Winch Items - 12K, 15K, & 20K (DP)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
81	-----	14183	YOKE, OVAL SHIFT	1
82	-----	2309	SPRING, COMPRESSION	1
83	-----	81612	BUSHING, BRONZE	1
84	-----	3303	RING, RETAINER	1
85	-----	3321	RING, RETAINER	1
86	-----	9739	O-RING	1
87	-----	3705	PIN, SPRING 3/16 X 1-1/9	1
88	-----	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
89	-----	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
90	-----	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
91	132106	1168	WASHER, LOCK 5/16	8
92	-----	9897	O-RING	1
93	-----	3456	PIN, SPRING 3/16 X 13/16	1

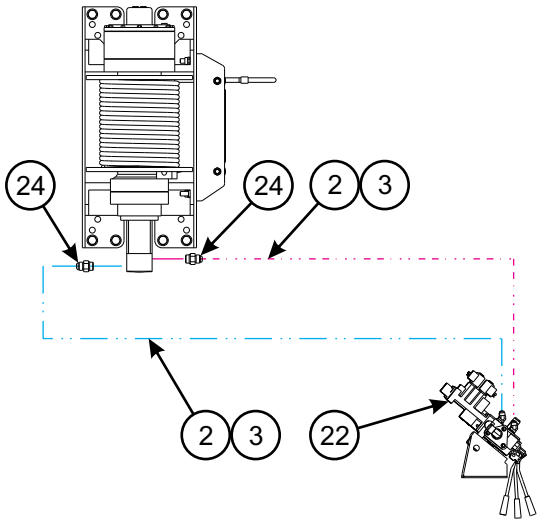
NOTE: WHEN ORDERING WINCH PARTS, CUSTOMER MUST GIVE SERIAL NO. FOR WINCH. SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

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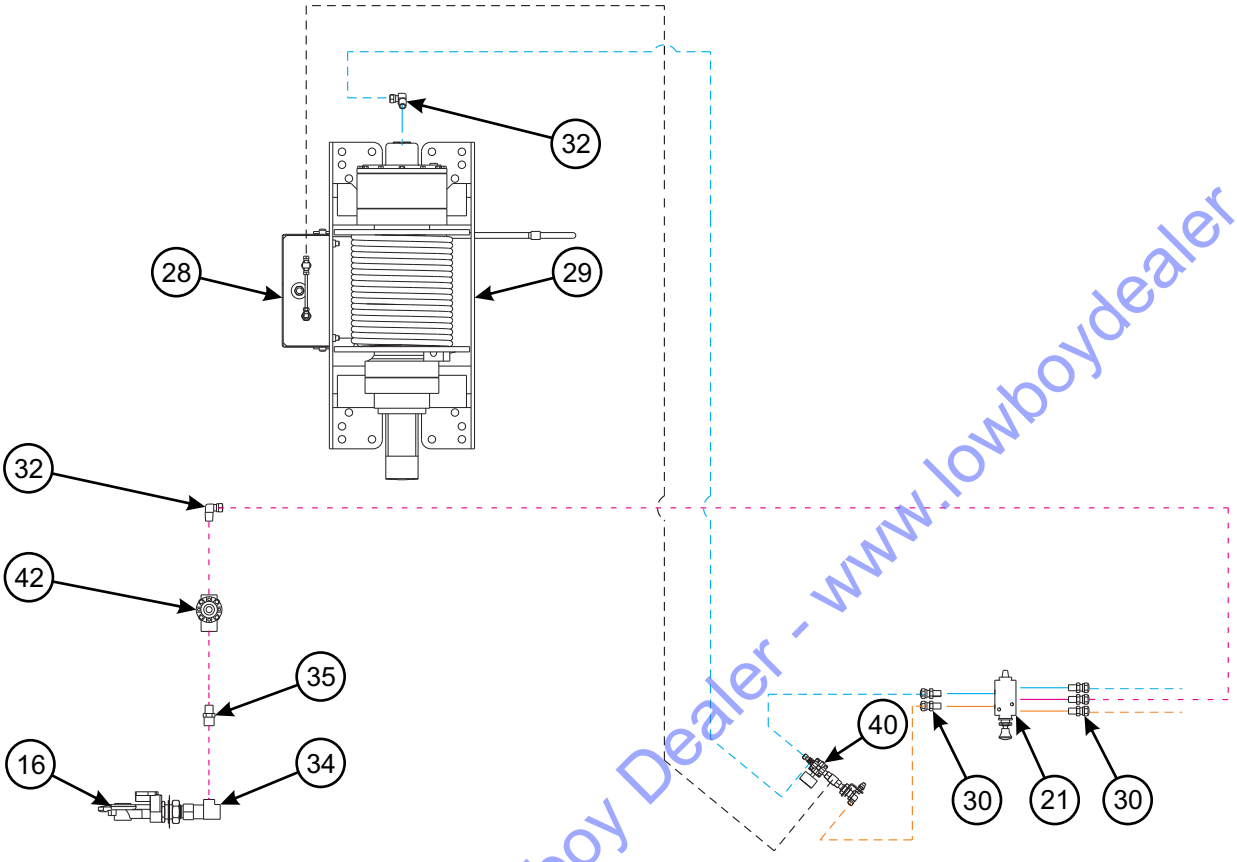
AIR SPRING SYSTEM



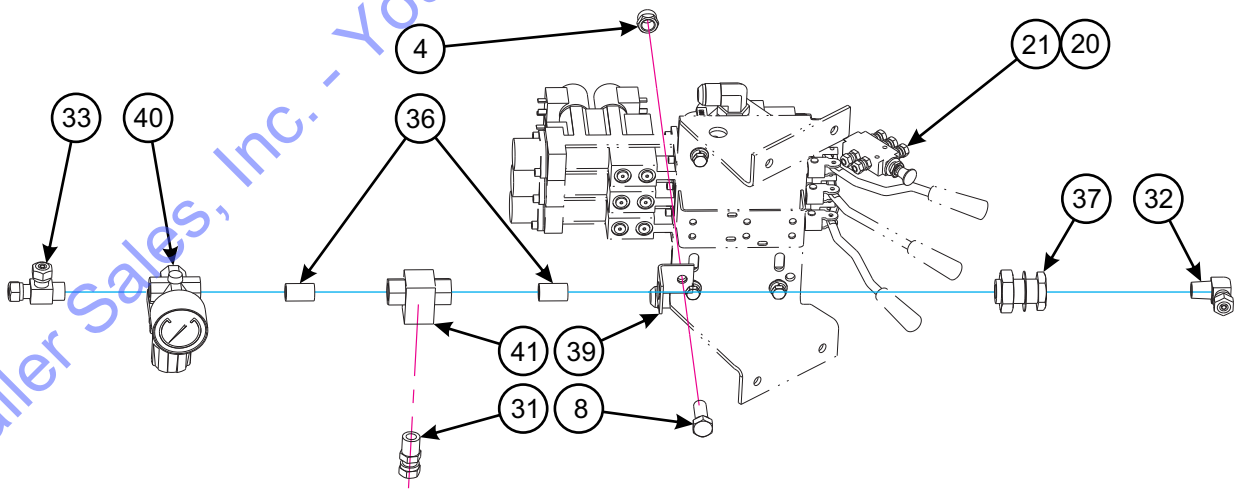
HYDRAULIC SYSTEM

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Figure 1-66: Winch Installation - 30K Upper Deck (DP) (1 of 2)



AIR TENSIONER SYSTEM



GAUGE REGULATOR VALVE ASSEMBLY

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Figure 1-67: Winch Installation - 30K Upper Deck (DP) (2 of 2)

Winch Installation - 30K Upper Deck (DP)

ITEM	PART NO.	DESCRIPTION				QTY.
	3-873-010170-03	WINCH INSTALLATION 600 30K DP, SPR TEN	*			
	3-873-010170-04	WINCH INSTALLATION 600 30K DP, SPR TEN/GUIDE		*		
	3-873-010170-06	WINCH INSTALLATION 600 30K DP, AIR TEN/KO, GUIDE			*	
	138106	WINCH INSTALLATION 610-53, NG, 30K DP				*
1	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GRD80	1	1	1	1
2	1-397-010302172	HOSE ASSY, 1/2 X 172, SAE37, STR90	--	--	--	2
3	1-397-010302220	HOSE ASSY, 1/2 X 220, SAE37, STR90	2	2	2	--
4	1-512-010005-05	NUT, HEX, SLFLKG, GRB 3/8-16	--	--	1	1
5	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB				
6	1-512-010005-13	NUT, HEX, SLFLKG, GRB 5/8-11	1	1	--	--
7	1-512-010005-15	NUT, HEX, SLFLKG, GRB 3/4-10	8	8	8	8
8	1-654-010036-05	SCREW, HEX CAP, 3/8-16 UNC X 1 GR8	--	--	1	1
9	1-654-010055-17	SCREW, HEX CAP, 1/2-13 UNC X 6 GR5	1	1	--	--
10	1-654-010059-06	SCREW, HEX CAP, 5/8-11 X 2-1/4 G5	2	2	--	--
11	1-654-010061-07	SCREW, HEX CAP, 3/4-10 UNC X 2-1/2 G5	8	8	8	8
12	1-861-010032-15	WASHER, FLAT, 1/2 W ZP/CD	2	2	--	--
13	1-861-010032-19	WASHER, FLAT, 5/8 W ZP/CD	2	2	--	--
14	1-861-010032-20	WASHER, FLAT, 3/4 N ZP/CD	16	16	16	16
15	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	8	8	8	8
16	108801	GLAD HAND-RED-AIR	REF	REF	REF	REF
17	111641	WINCH TENSIONER WLDMT, 30K-660	1	1	--	--
18	122333	ROLLER GUIDE, 30K DP	--	1	1	1
19	132833	CABLE ASSY, 5/8 X 85 FLEX - X9	REF	REF	REF	REF
20	134657	VALVE AIR, 3WAY/2POS 1/4NPT	1	1	--	--
21	139552	VALVE AIR, 5WAY/2POS 1/8NPT	--	--	1	1
22	148243	VALVE ASSY, 3-SPOOL 600	REF	REF	REF	REF
23	1-833-010001	TUBING NYLON, 1/4 OD	34’	34’	44’	44’
24	202702-8-8S	ADAPTER, #8 O-RING TO #8 TUBE	2	2	2	2
25	3-174-010059	CHAIN LINK, CONNECTING 5/8	1	1	1	1
26	3-174-010060036	CHAIN, 5/8 X 36IN GRADE 80	1	1	1	1
27	3-720-010010	SPRING COMP, LEVEL WIND	1	1	--	--
28	3-873-010172	WINCH CABLE, AIR TENSION - 30K	--	--	1	1
29	3-873-010173	WINCH, 30K PLNTY UWD DP-600	1	1	1	1
30	1-297-010007-04	FITTING, AIR, 1/4 TUBE X1 /8 NPT	--	--	5	5
31	1-297-010007-05	FITTING, AIR, 1/4 TUBE X 1/4 NPT	1	1	1	1
32	1-297-010008-07	FITTING, AIR, 90 1/4 TUBE X 1/4 NPT	4	4	3	3
33	1-297-010011-02	FITTING, AIR, M/RUN TEE 1/4 X 1/4	--	--	1	1
34	1-297-010018-03	FITTING, 3/8 BRASS PIPE, ST TEE	REF	REF	REF	REF
35	1-297-010019-05	FITTING, BRS PIPE, HEX 3/8 X 1/4	1	1	1	1
36	1-297-010020-02	FITTING, BRS PIPE, CL NIP 1/4	--	--	2	2
37	1-297-010022-02	FITTING, AIR ANCHR, CPLG, 1/4 NPT	--	--	1	1
38	1-297-010033-03	FITTING, BRASS PLUG, HEX 3/8 NPT	-1	-1	-1	-1
39	3-120-010445	BRACKET, PRESSURE REGULATOR 660	--	--	1	1
40	3-626-010004	REGULATOR, AIR PRESSURE	--	--	1	1
41	3-843-010039-02	VALVE, AIR SHUTTLE, 1/4NPT	--	--	1	1
42	905-54-107	BRAKE PROTECTION VALVE	1	1	1	1

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Table provided for general use.

NOTES:

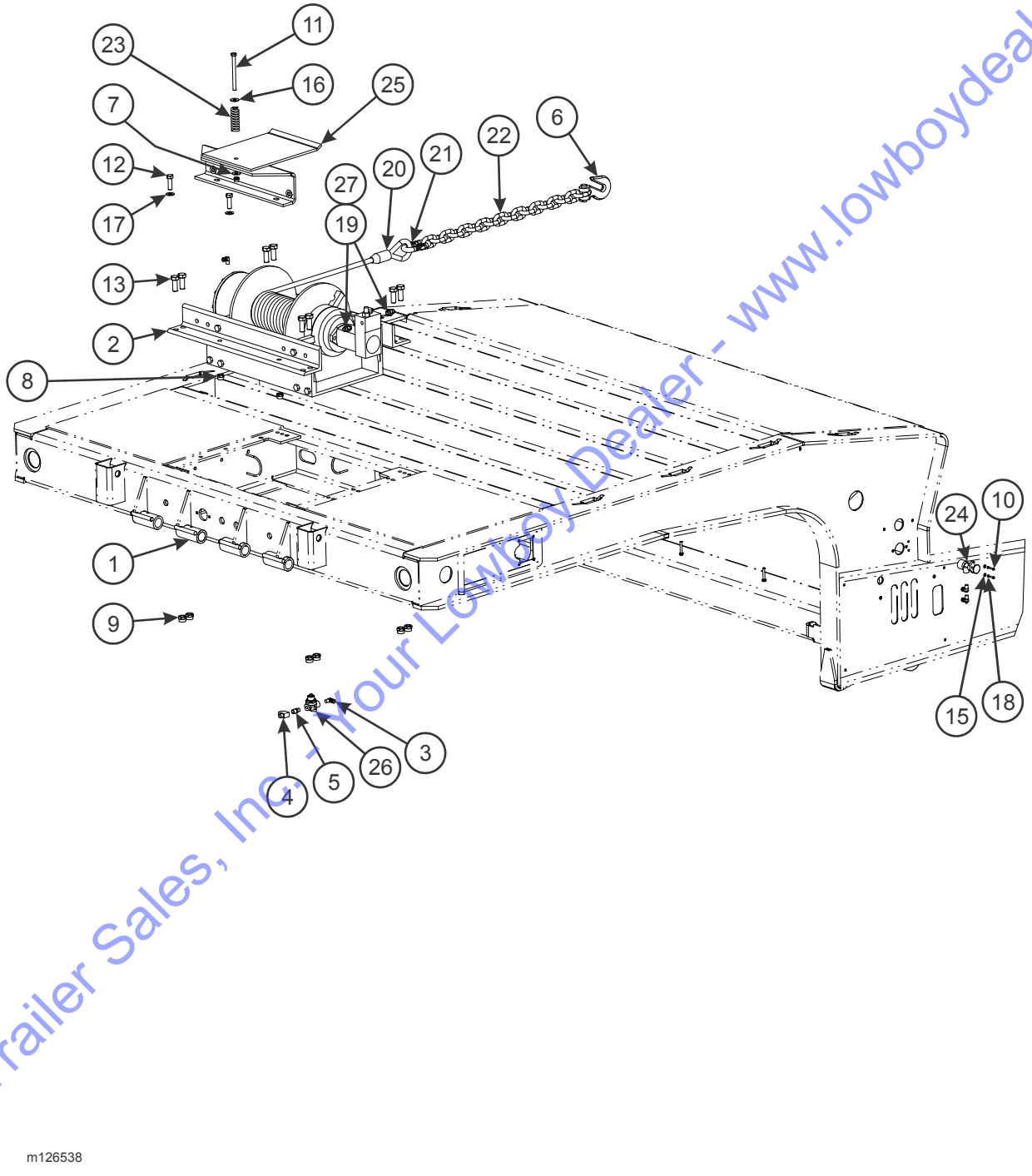


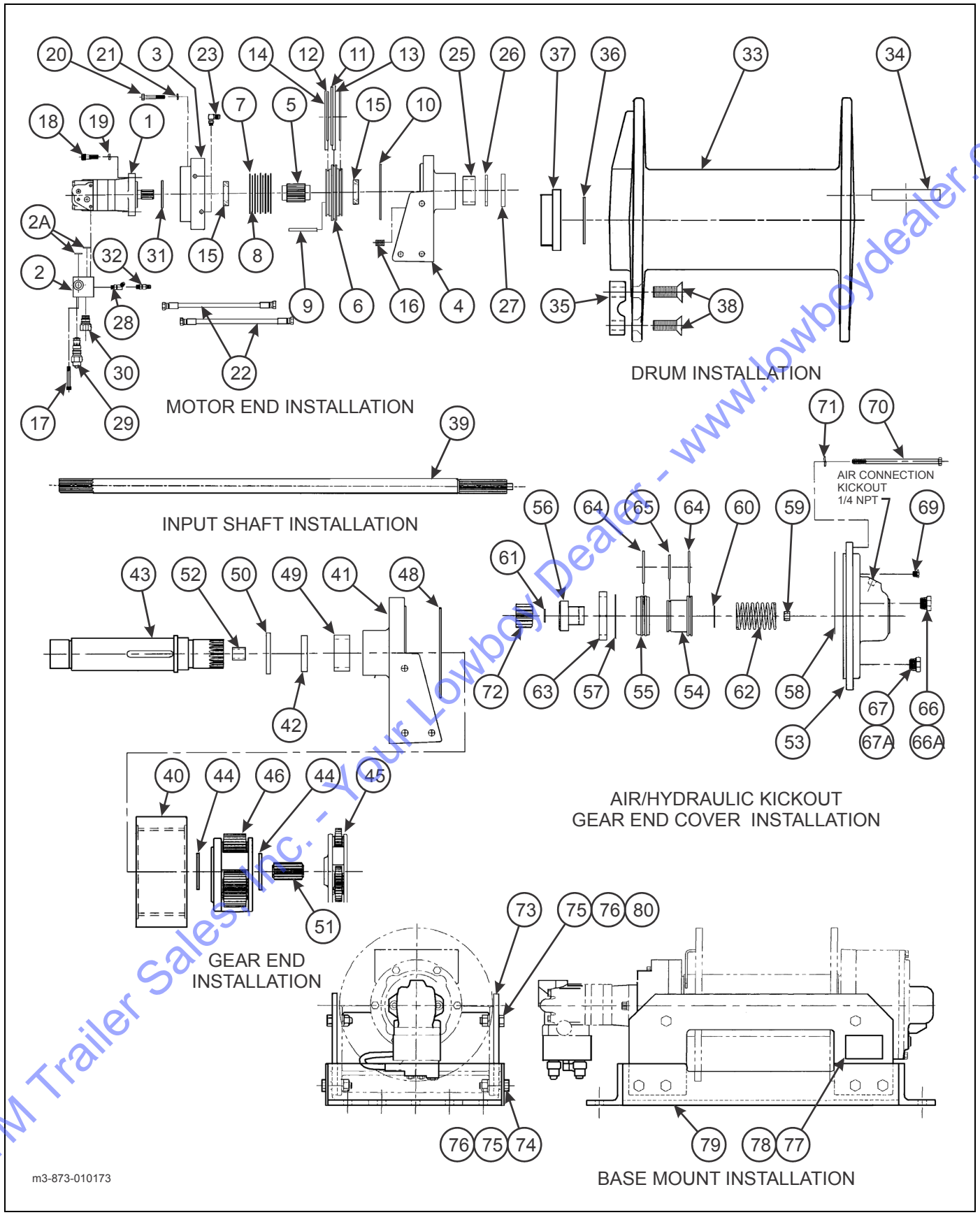
Figure 1-68: Winch Installation - 30K Spring Tension Air Release (DP)

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Winch Installation - 30K Spring Tension Air Release (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	126538	WINCH INSTALLATION 30K DP SPRING TENSION A/R	
1	126539	FRAME MOD 30K DP G/N	REF
2	126580	WINCH MOD 30K DP AIR RELEASE **(SEE PAGE 1-125)**	1
3	1-297-010008-07	FITTING, AIR 90	4
4	1-297-010018-03	FITTING, 1/4 TEE	REF
5	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
6	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GR80	1
7	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
8	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
9	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	8
10	1-654-010024079	SCREW, MACH FILLISTER #10-32 X 3/4	2
11	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	1
12	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	2
13	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	8
14	1-833-010001	TUBING, NYLON 1/4 **(NOT SHOWN)**	1
15	1-861-010032-03	WASHER, FLAT #10	2
16	1-861-010032-15	WASHER, FLAT 1/2W	2
17	1-861-010032-18	WASHER, FLAT 5/8N	4
18	1-861-010034-07	WASHER, SPLIT LOCK #10	2
19	202702-8-8S	ADAPTER	2
20	3-153-010016-02	CABLE ASSEMBLY 3/4 X 85'	REF
	132833	CABLE ASSEMBLY 5/8 X 85' FLEX W/ LOOP	REF
21	3-174-010059	CHAIN LINK CONNECTING 5/8	1
22	3-174-010060036	CHAIN, 5/8 X 36 GRADE 80	1
23	3-720-010010	SPRING, COMPRESSION	1
24	3-843-010008	VALVE, AIR 3 WAY 2 POS PUSH-PULL	1
25	3-876-010017	WINCH TENSIONER WELDMENT 30K	1
26	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1
27	1-397-010302220	HOSE ASSEMBLY 1/2 X 220	2

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Figure 1-69: 30,000 Lb. Winch Items

Winch Items - 30,000Lb. (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
	3-873-010173		WINCH 30K ITEMS	
		MOTOR END INSTALLATION		
1	-----	73076	MOTOR, HYDRAULIC	1
2	137888	11604	VALVE, COUNTERBALANCE	1
2A	-----	9817	O-RING, 13/16 I.D. X 3/32 SECTION	2
3	-----	11535	BRAKE HOUSING	1
4	-----	13299	SUPPORT MOTOR END	1
5	-----	11750	SHAFT BRAKE	1
6	-----	11443	PISTON BRAKE	1
7	-----	11603	PLATE DISC FRICTION	10
8	-----	3159	PLATE DRIVE BRAKE	9
9	-----	3263	PIN DOWEL 5/16 DIA. X 3-1/2	2
10	137993	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	137994	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	137421	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16	2
13	-----	9854	RING, BACK-UP	1
14	137422	9852	RING, BACK-UP 5-3/8 I.D.	1
15	-----	81434	BEARING BALL 1-3/4 I.D.	2
16	-----	2319	SPRING COMPRESSION	12
17	-----	1345	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
18	-----	1143	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
19	-----	1144	WASHER, LOCK HI COLLAR 1/2	6
20	-----	1376	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
21	-----	1388	WASHER, LOCK 7/16	4
22	-----	75038	HOSE 1/4R1 X 12”	1
23	-----	76017	ADAPTER 90	1
24	-----	10708	TAG WARNING (NOT SHOWN)	1
25	-----	81454	BEARING -TORRINGTON	1
26	-----	13288	WASHER THRUST BRONZE	1
27	137880	9890	SEAL SHAFT	1
28	137641	76029	ADAPTER 45	1
29	137883	3177	CARTRIDGE COUNTERBALANCE	1
30	137884	70035	PLUG ASSEMBLY VALVE COUNTERBALANCE	2
31	137882	9880	O-RING 3 ID X 1/8 SECTION	1
32	-----	76027	ADAPTER STRAIGHT	
	137885	9400	DISC PLATE KIT (INCL ITEMS 7-8 & 16)	
	137886	9406	SEAL KIT (INCL ITEMS 10-14)	
		DRUM INSTALLATION		
33	-----	13285	DRUM	1
34	-----	13293	KEY DRUM	2
35	137569	12518	CLIP CABLE THREADED	1
36	-----	9602	O-RING 2-5/8 ID X 1/8 W	1
37	-----	13286	SPACER	1
38	137570	1587	CAP SCREW, FLAT SKT HEAD 5/8-11 X 1-3/4	2
		INPUT SHAFT INSTALLATION		
39	-----	13317	SHAFT INPUT	1
		GEAR END INSTALLATION		
40	-----	3126	GEAR RING	1

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Winch Items - 30,000Lb. (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
41	-----	13300	SUPPORT GEAR END	1
42	-----	13288	WASHER THRUST	1
43	-----	13301	SHAFT OUTPUT	1
44	-----	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16	2
45	-----	12486	CARRIER ASSEMBLY PRIMARY	1
46	-----	12516	CARRIER ASSEMBLY SECONDARY	1
47	-----	10848	LABEL WARNING **(NOT SHOWN)**	1
48	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
49	-----	81454	BEARING	1
50	137880	9890	SEAL SHAFT	1
51	-----	13306	GEAR SUN	1
52	-----	81608	BUSHING ID 1-1/4 OD X 1 LG	1
		AIR/HYD. KICKOUT GEAR END COVER INSTALLATION		
53	-----	13675	COVER GEAR END	1
54	-----	13295	PISTON AKO B/C/D	1
55	-----	13296	CYLINDER PISTON	1
56	-----	13297	COUPLING DRIVE	1
57	-----	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
58	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
59	-----	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
60	-----	3303	RING RETAINING 1-1/4	1
61	-----	3321	RING RETAINING RD SEC .805 I.D.	1
62	-----	2309	SPRING COMPRESSION	1
63	-----	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
64	137881	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
65	-----	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
66	105967	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
66A	-----	9992	O-RING .755 I.D. X .097 W 3-910	1
67	105954	76343	PLUG SKT HD O-RING MAG #10	1
67A	-----	9992	O-RING .755 I.D. X .097 W 3-910	1
68	-----	1157	CAPLUG #4 RED **(NOT SHOWN)**	1
69	105953	3059	RELIEF VENT	1
70	-----	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
71	-----	1395	WASHER LOCK 3/8	12
72	-----	13235	GEAR SUN AKO	1
		BASE MOUNT INSTALLATION		
73	-----	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
74	-----	1506	SCREW CAP HEX HEAD 5/8-11 X 2-1/2 GR5	12
75	-----	1590	NUT, HEX 5/8 - 11 GR2	12
76	-----	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12
77	-----	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4
78	-----	10466	PLATE INFORMATION	1
79	-----	14073	BASE SUPPORT	1
80	-----	1504	CAP SCREW, HEX HEAD 5/8-11 X 2 GR5	2

NOTE: WHEN ORDERING WINCH PARTS, CUSTOMER MUST GIVE SERIAL NO. FOR WINCH. SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

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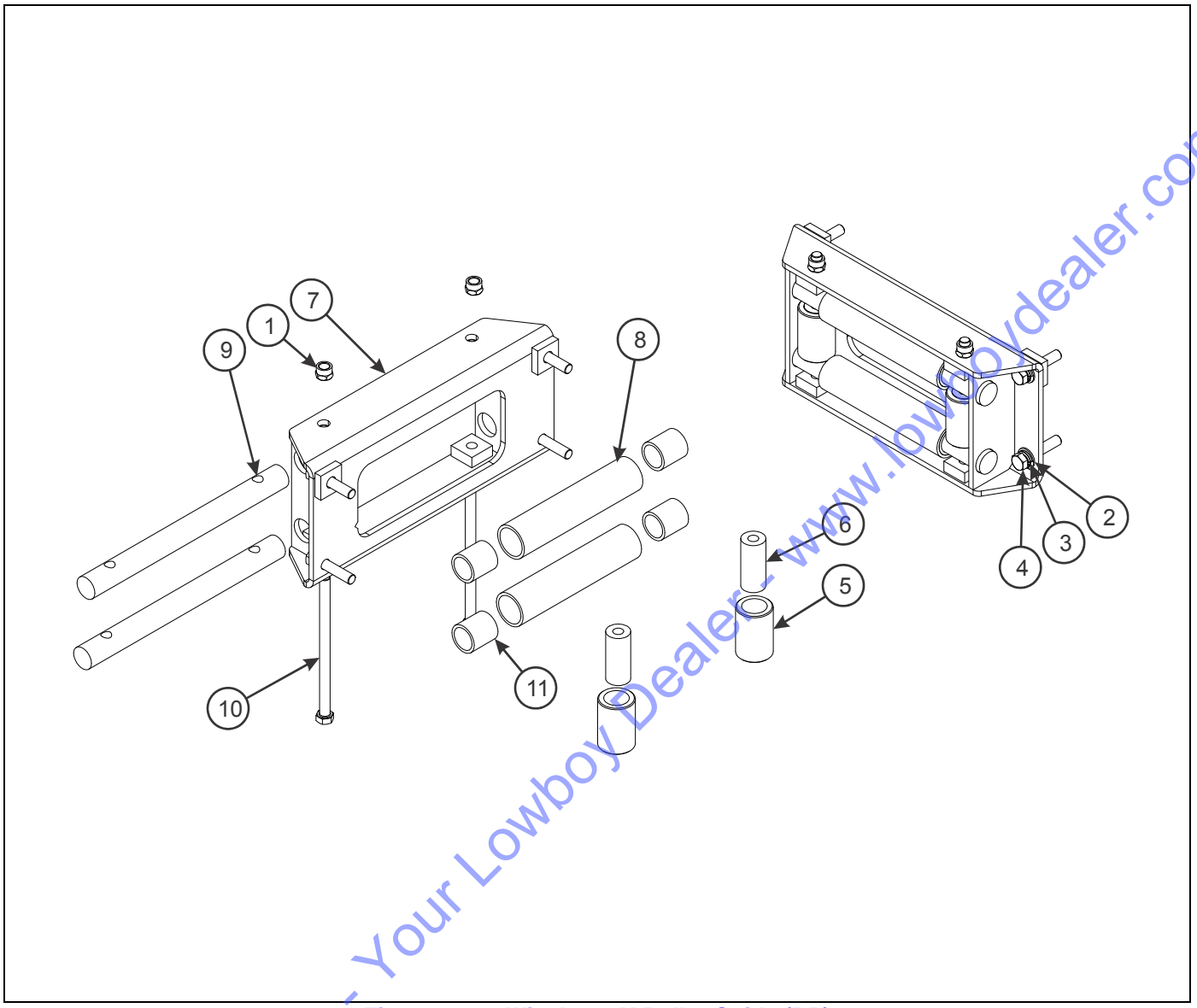
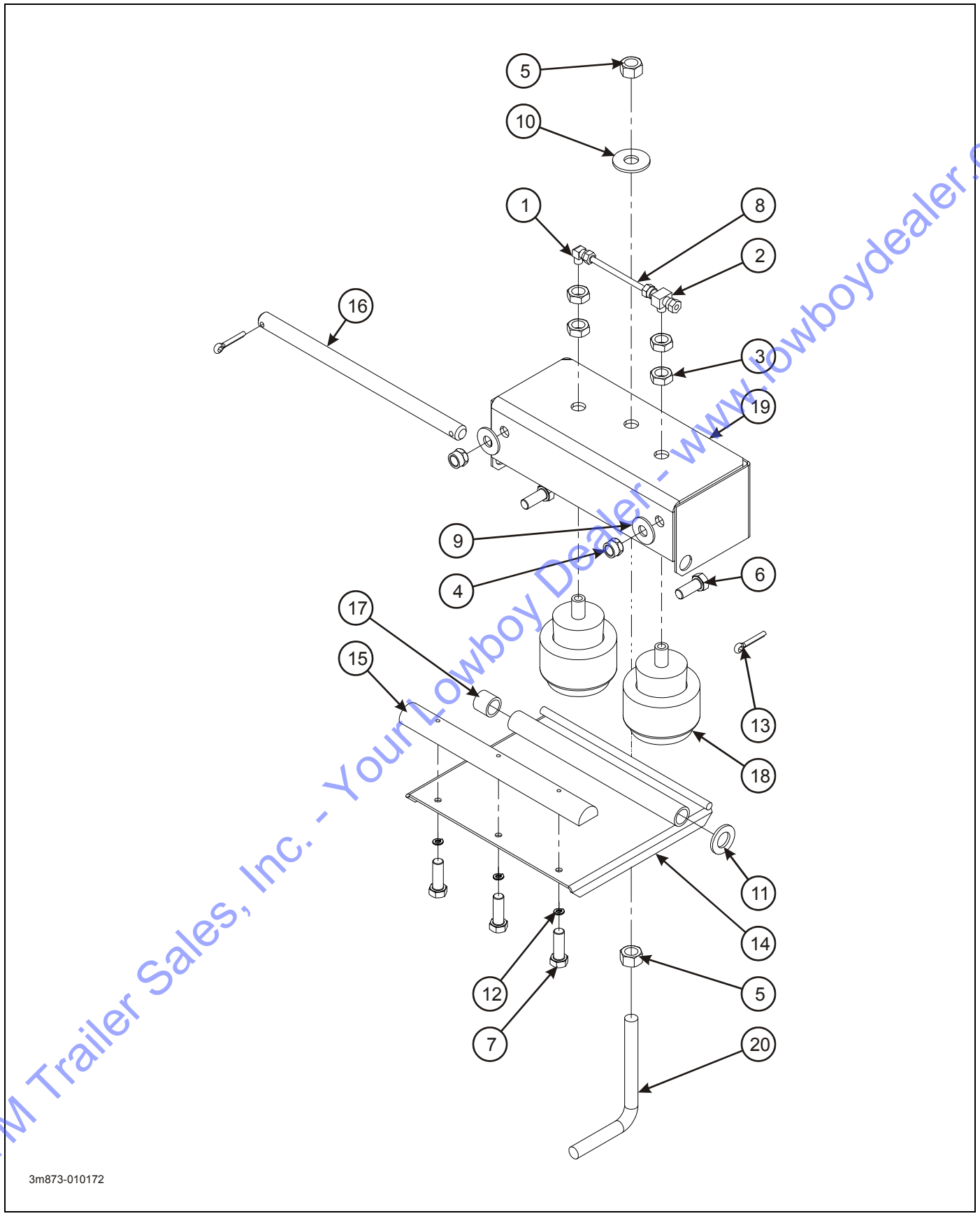


Figure 1-70: Winch - 30K Roller Guide (DP)

Winch - 30K Roller Guide (DP)

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

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Figure 1-71: Winch - 30K Cable Air Tension (DP)

Winch - 30K Cable Air Tension (DP)

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

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Landing Gear

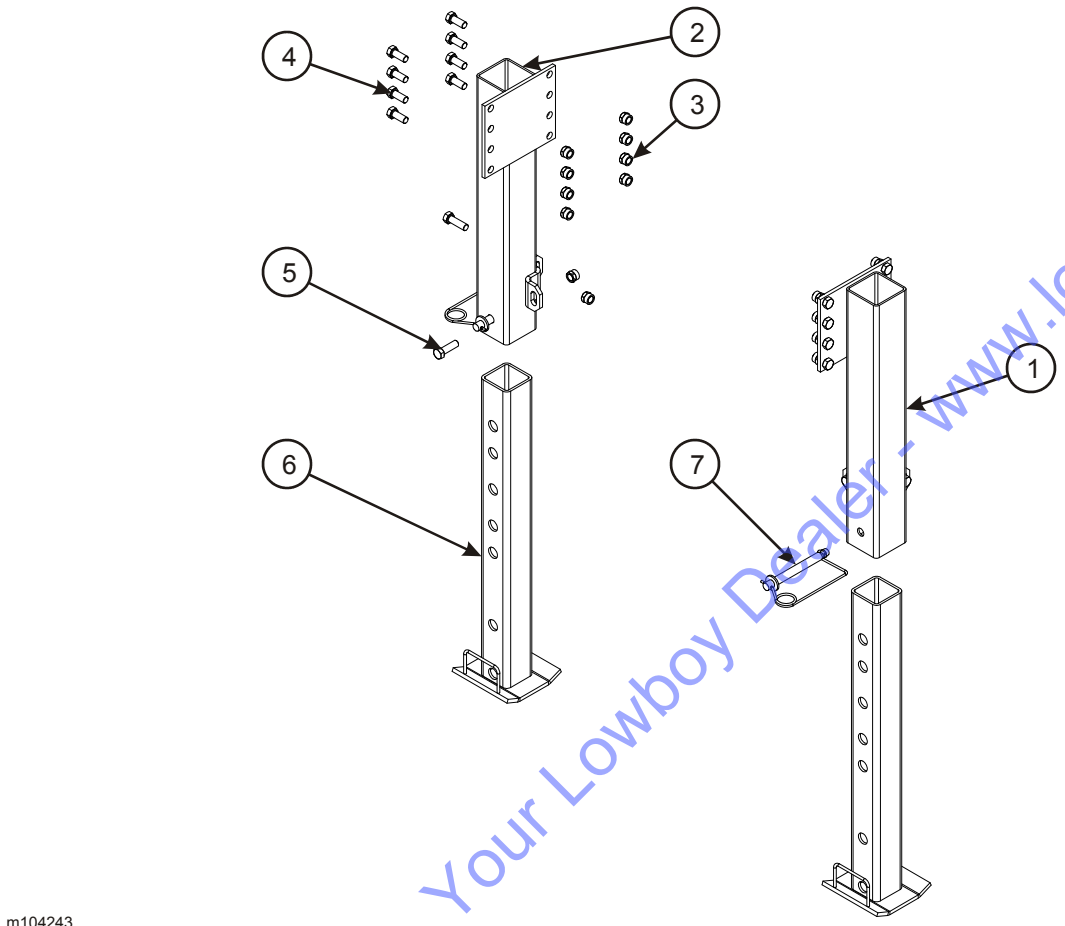


Figure 1-72: Landing Gear Installation - “Bolt On” Park Stand

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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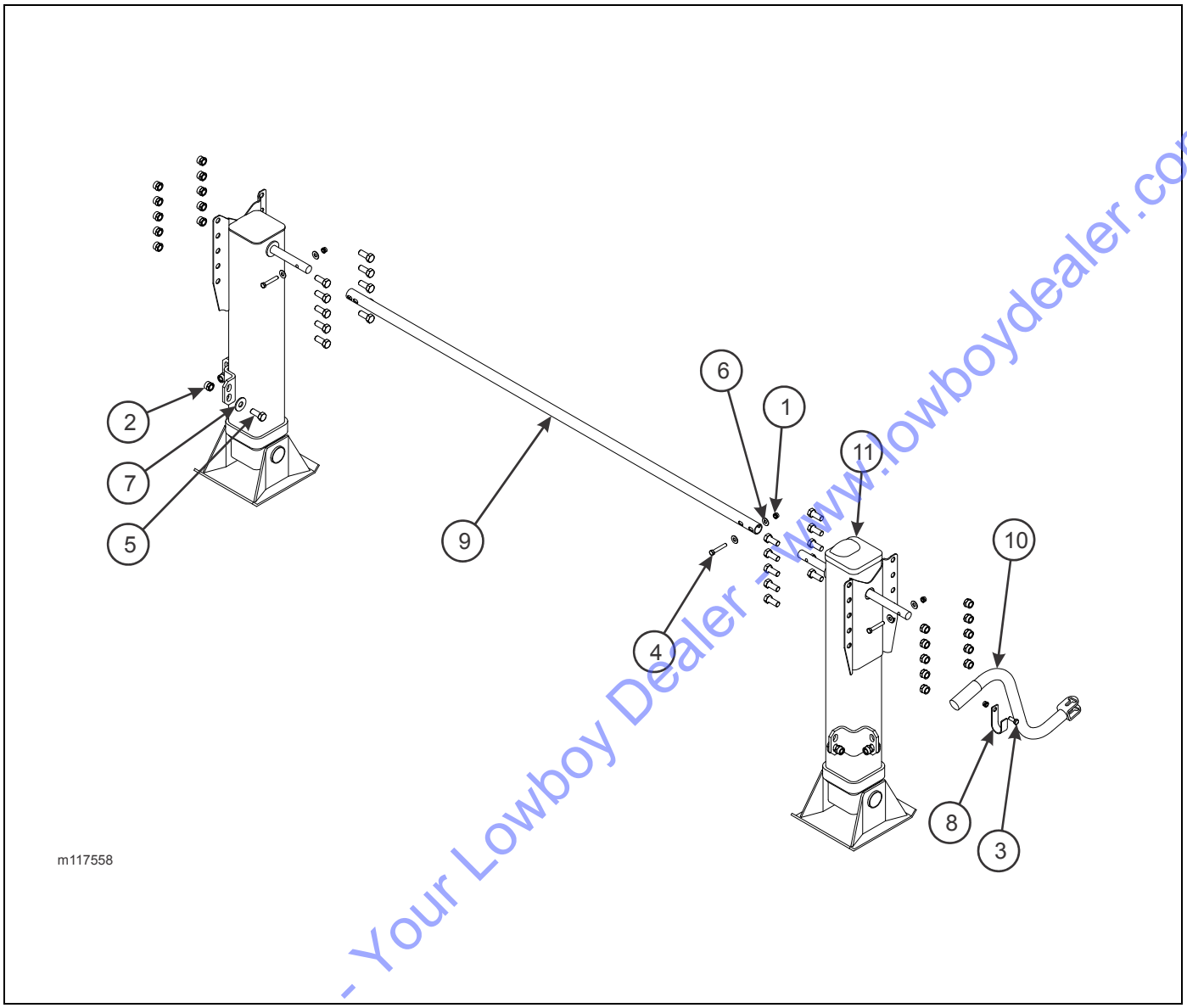
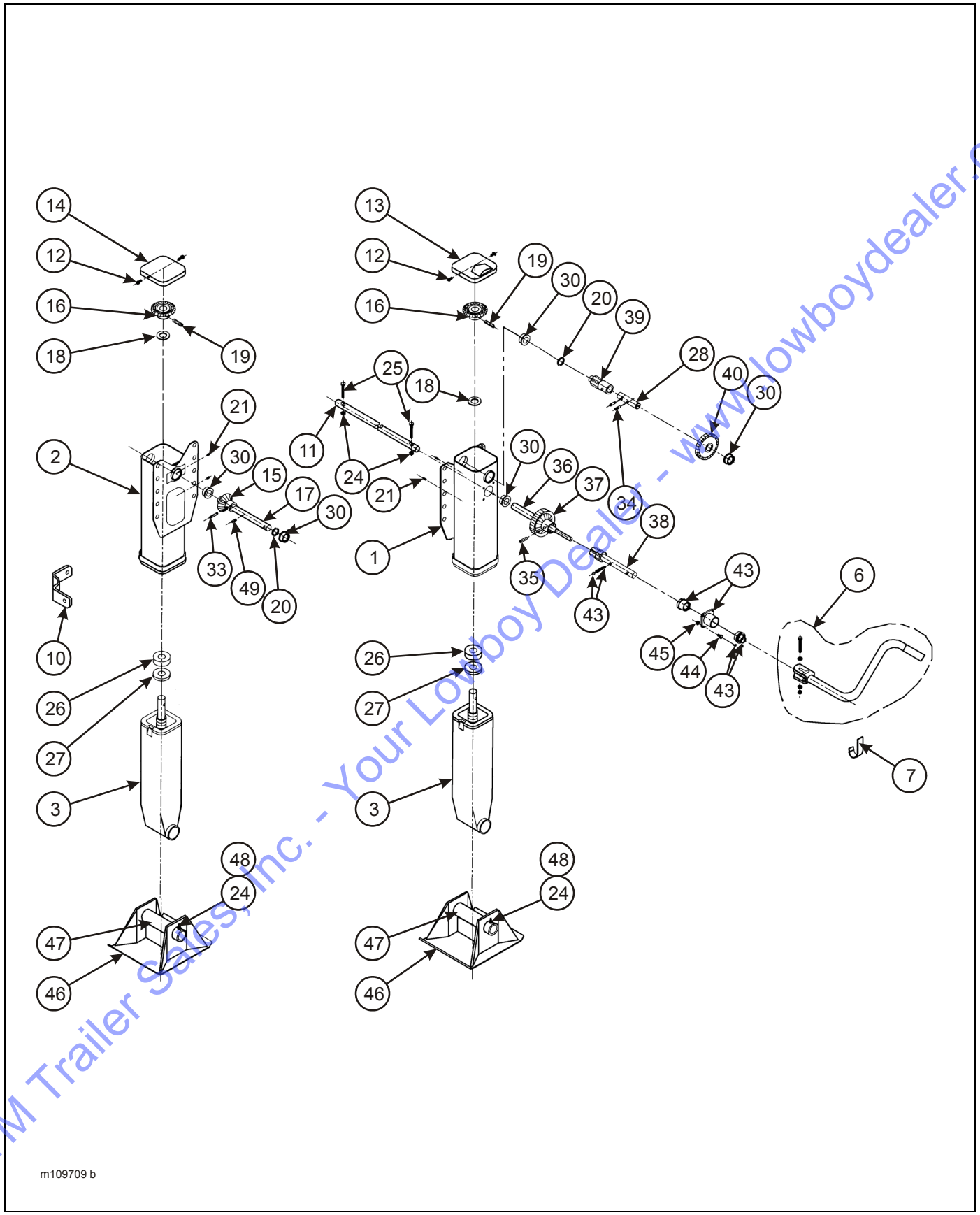


Figure 1-73: Landing Gear Installation - Jost 410

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 1-133)**	1

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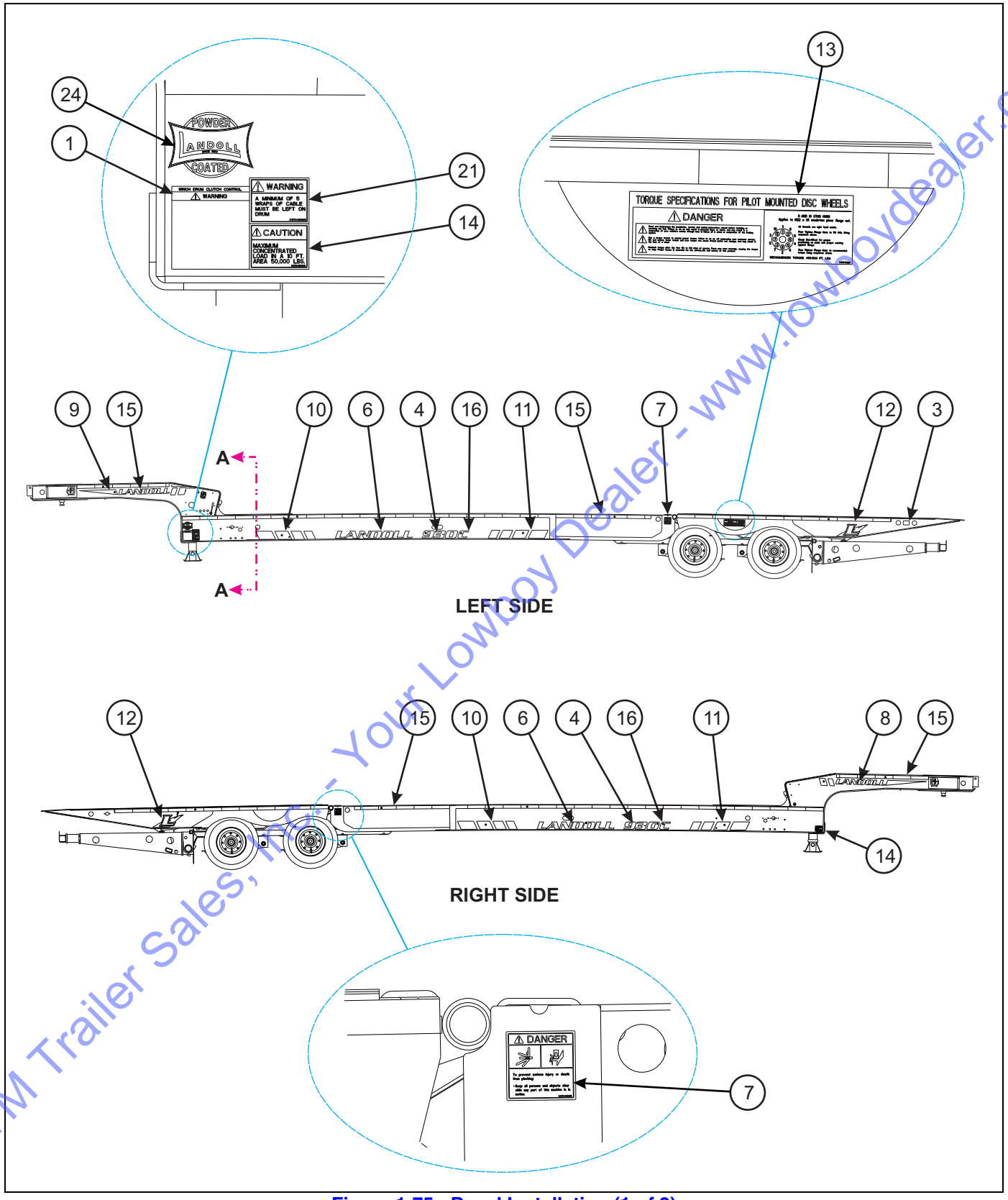
Figure 1-74: Landing Gear Installation - Jost #A401T19

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

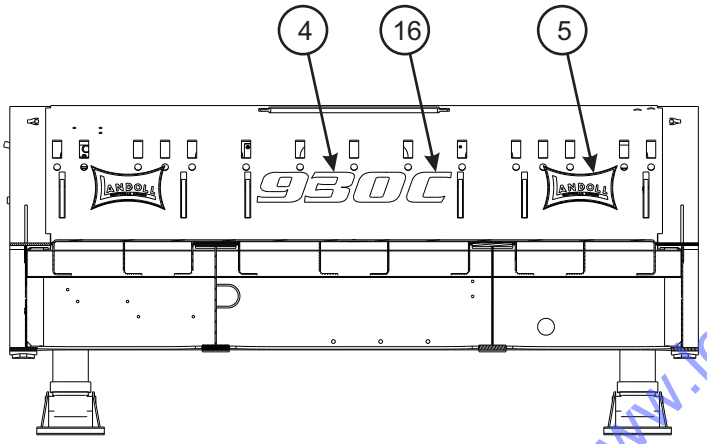
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Decals

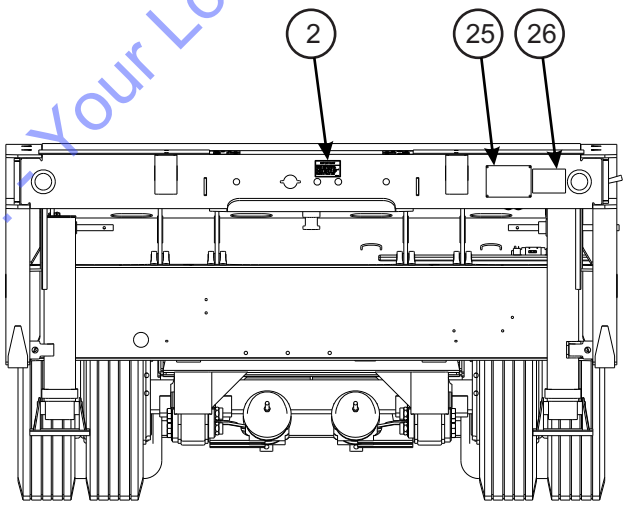


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Figure 1-75: Decal Installation (1 of 2)



SECTION A-A



FRONT VIEW

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Figure 1-76: Decal Installation (2 of 2)

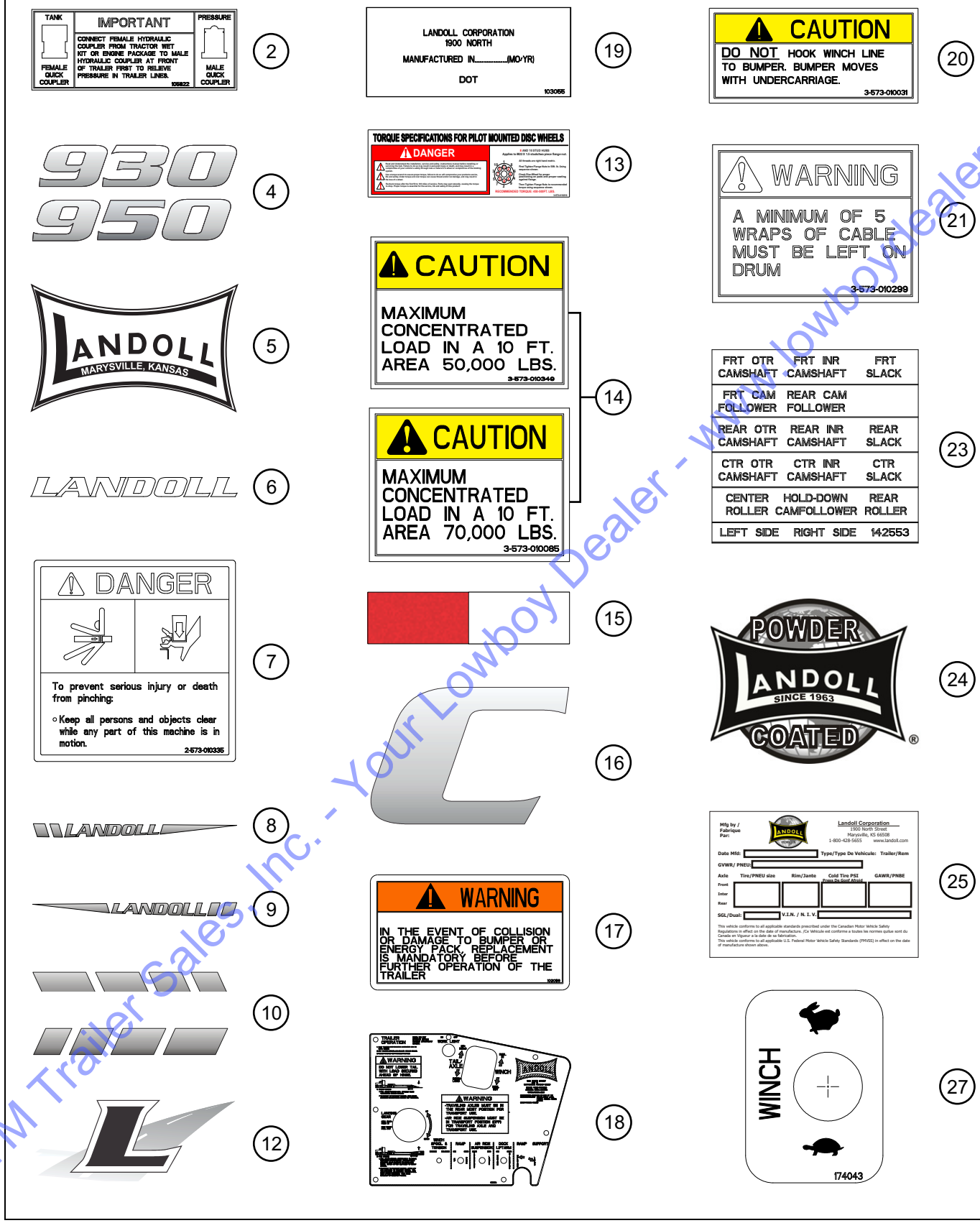


Figure 1-77: Decal Arrangement

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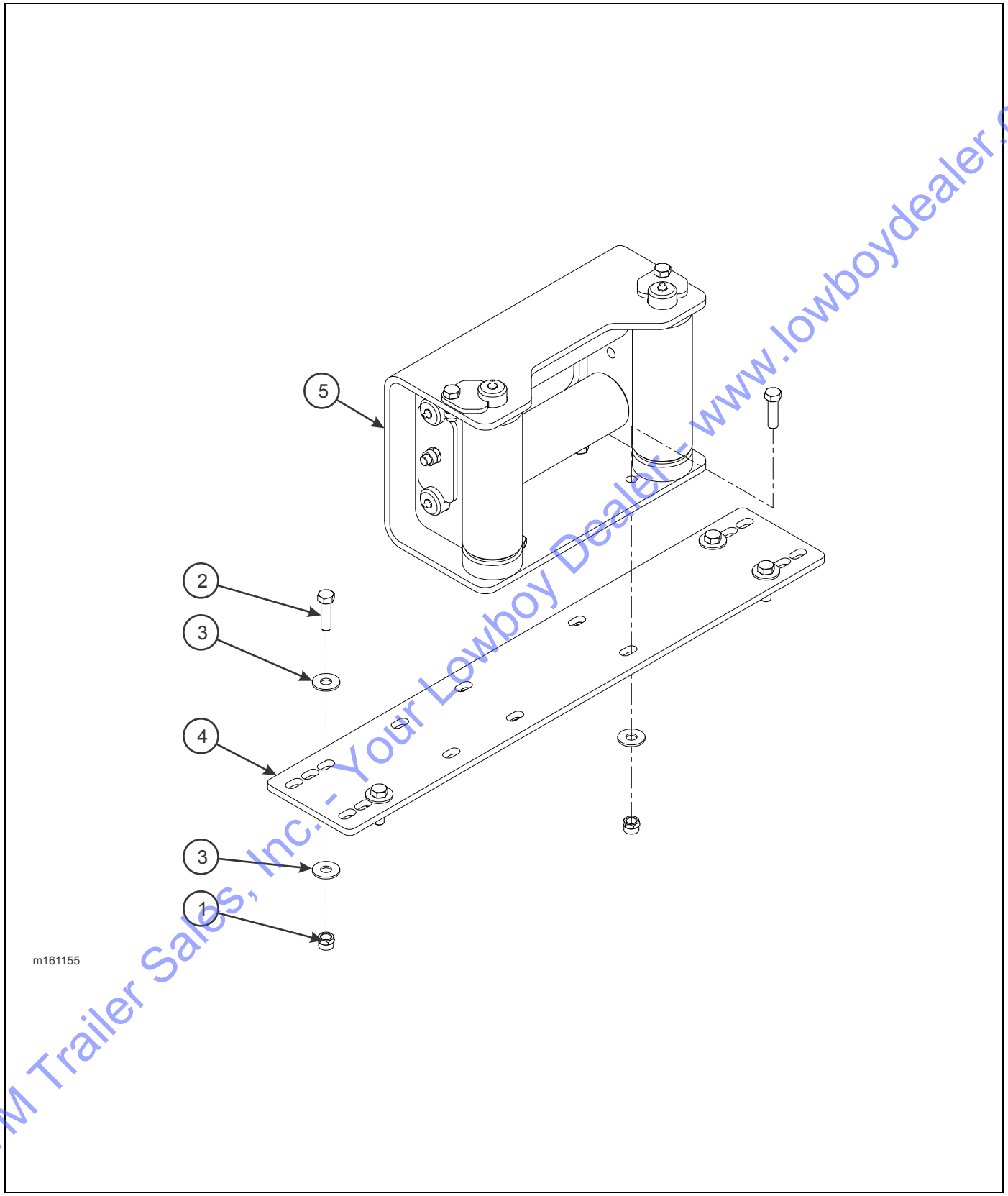
Decal Installation & Arrangement

ITEM	PART NO.	DESCRIPTION	QTY.
	153761	DECAL INSTALLATION 930	REF
	153772	DECAL INSTALLATION 950	REF
1	100600	DECAL, WARNING BRADEN WINCH	REF
2	105822	DECAL, HYD COUPLER	REF
3	101855	DECAL, ABS	1
4	153724	DECAL, 930 REFLECTIVE	3
	180566	DECAL, 930 ANNIVERSERY ADDITION	3
	153725	DECAL, 950 REFLECTIVE	3
	180567	DECAL, 950 ANNIVERSERY ADDITION	3
5	153754	DECAL, BOW-TIE (WHITE/DK) REFLECTIVE	2
	153755	DECAL, BOW-TIE (BLACK/LT) REFLECTIVE	2
6	153750	DECAL, LANDOLL 5" REFLECTIVE	2
7	2-573-010335	DECAL, DANGER PINCH	4
8	153748	DECAL, TAPERED STRIPE LEFT REFLECTIVE	1
9	153749	DECAL, TAPERED STRIPE RIGHT REFLECTIVE	1
10	153752	DECAL, CHEVRON LEFT REFLECTIVE	2
11	153753	DECAL, CHEVRON RIGHT REFLECTIVE	2
12	153751	DECAL, HIGHWAY L 7" REFLECTIVE	2
13	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
14	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	2
	3-573-010085	DECAL, CAUTION CONC. LOAD 70,000 LBS.	2
15	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	AR
16	153745	DECAL, C 5" REFLECTIVE	3
17	103056	DECAL, ENERGY BUMPER WARNING	1
18	136205	PLACARD, CONTROLS	REF
19	103055	DECAL, ENERGY CERTIFICATION	REF
20	3-573-010031	DECAL, BUMPER	REF
21	3-573-010299	DECAL, WARNING WINCH CABLE	REF
23	142553	DECAL, GREASE TRAILER	REF
24	153798	DECAL, POWDER COATED REFLECTIVE	1
25	155780	TRAILER VIN PLATE	1
26	156010	RIVET, BLIND .156 X 1/2 GRIP	4
27	174043	DECAL, WINCH HI/LOW **(SEE PAGE 1-108 FOR LOCATION)**	REF

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

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Roller Guides - Options



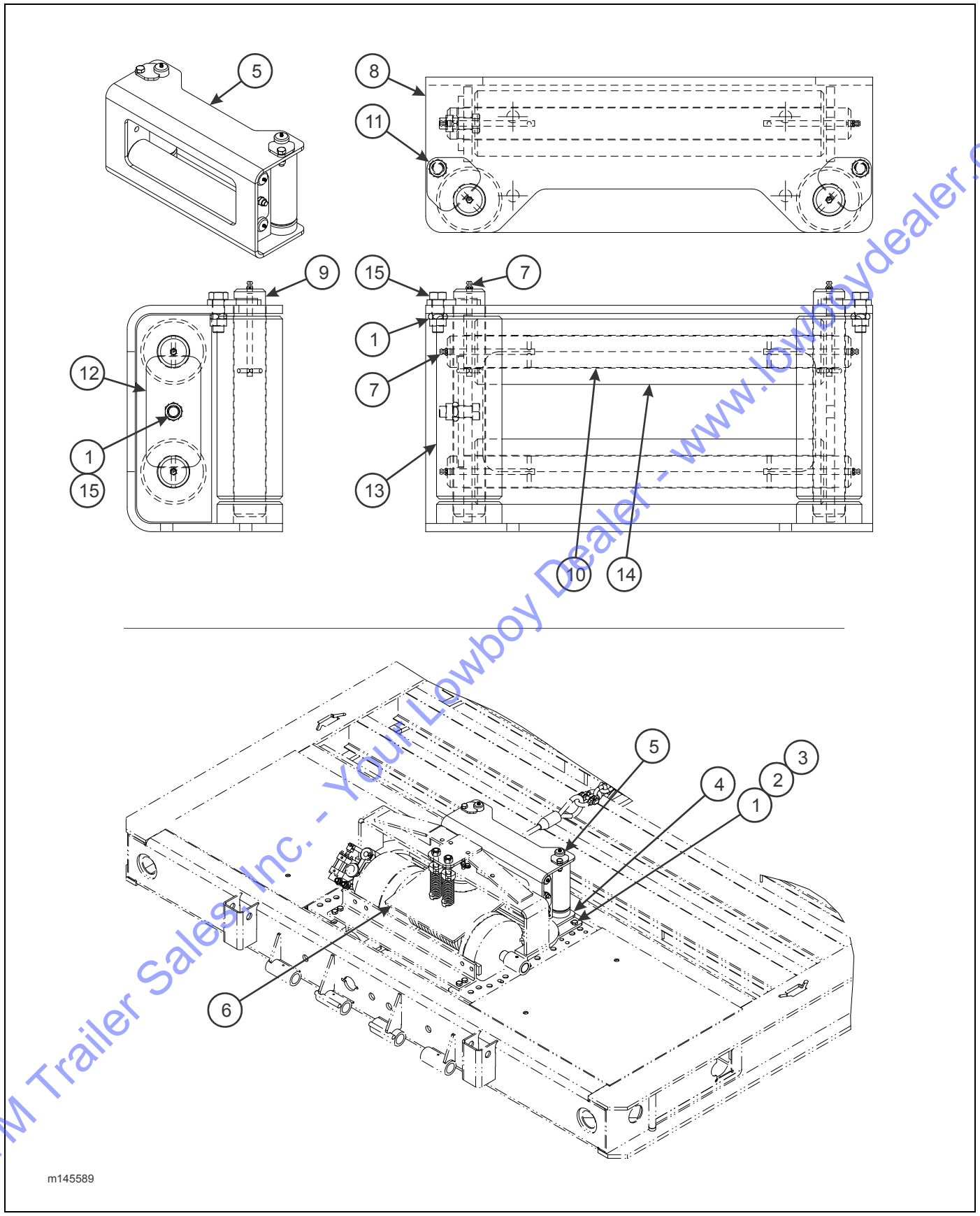
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Figure 1-78: 4 Roller Guide Installation 12K (BRADEN)

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 1-209)	1

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Figure 1-79: 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	1-654-010055-04	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	3-352-010067-2	GUIDE ASSEMBLY, WINCH **(ITEMS 1, & 7-15)**	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
15	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	3

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Air Digital Scales - Options

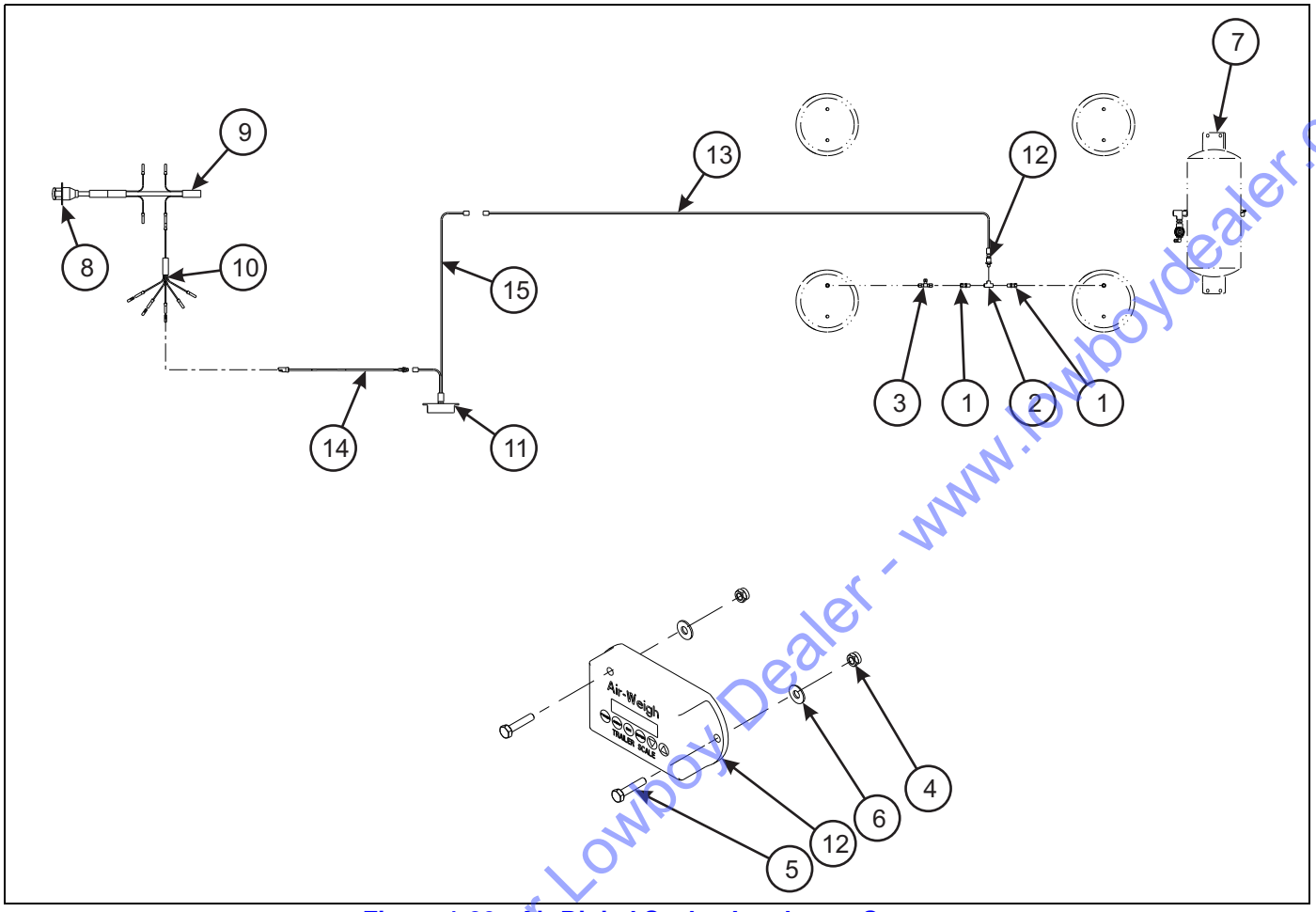


Figure 1-80: Air Digital Scale - Loadmaxx System

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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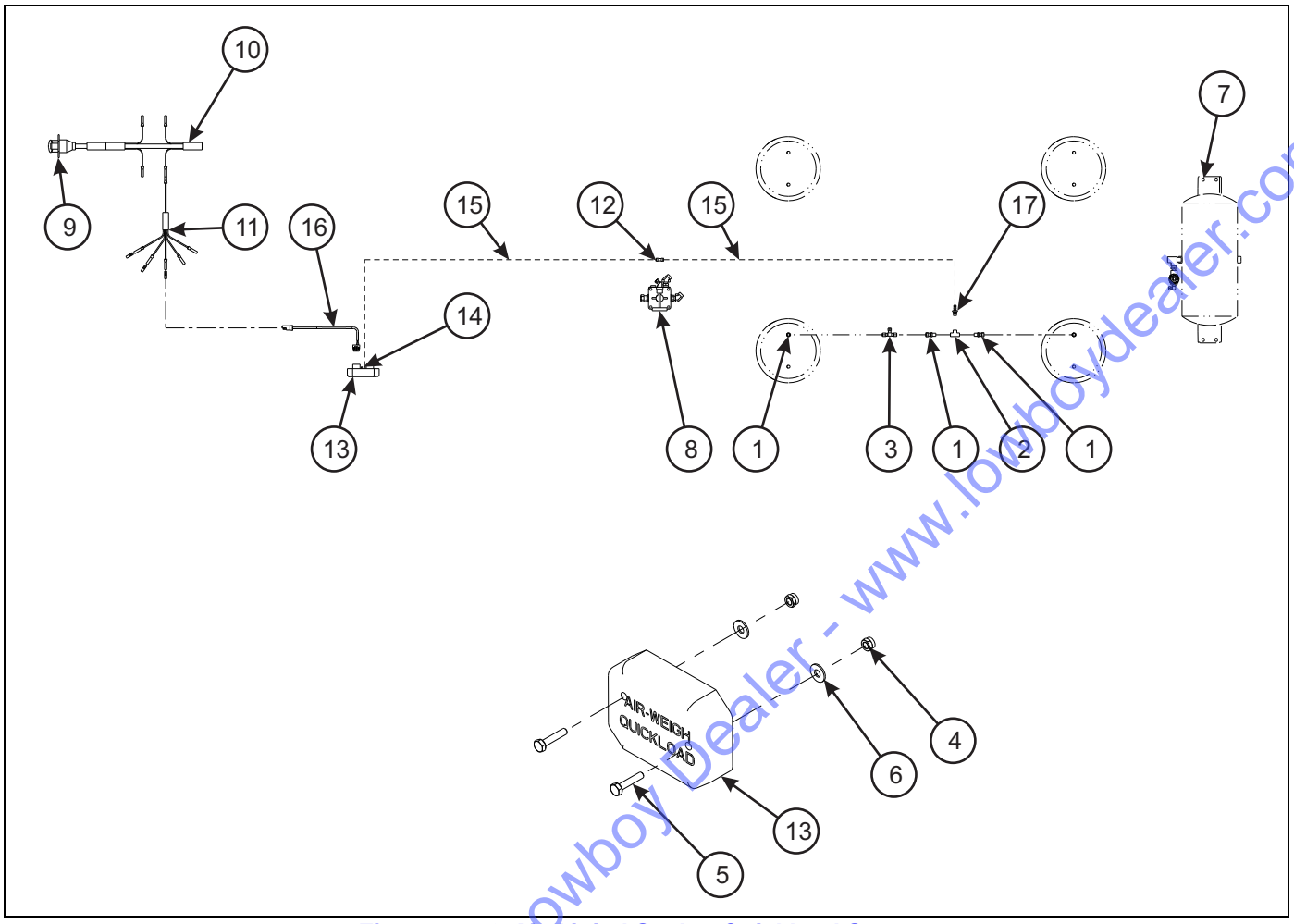


Figure 1-81: Air Digital Scale - Quickload System

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 1-20)**	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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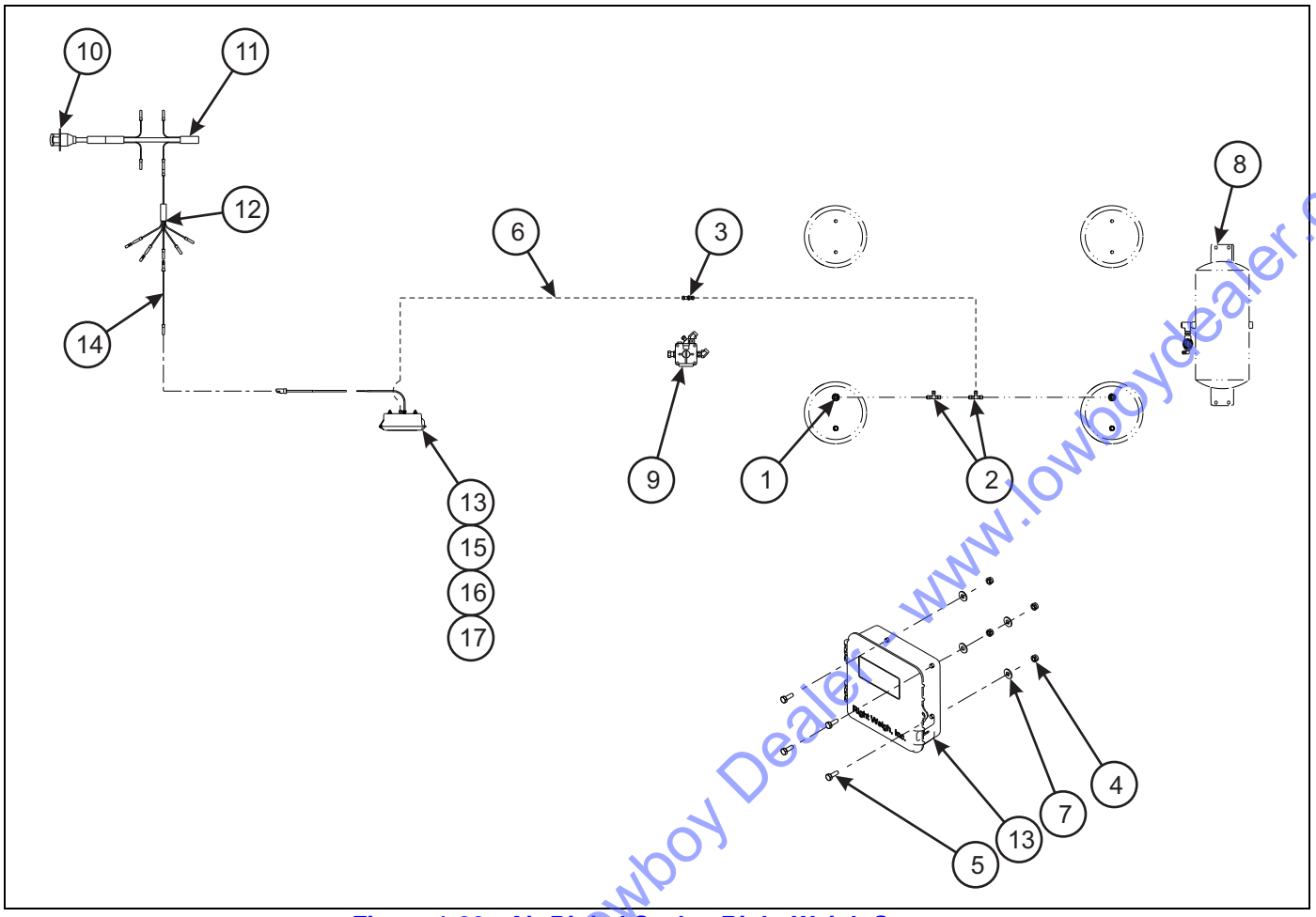


Figure 1-82: Air Digital Scale - Right Weigh System

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 1-20)**	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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Outlet & Alarm - Options

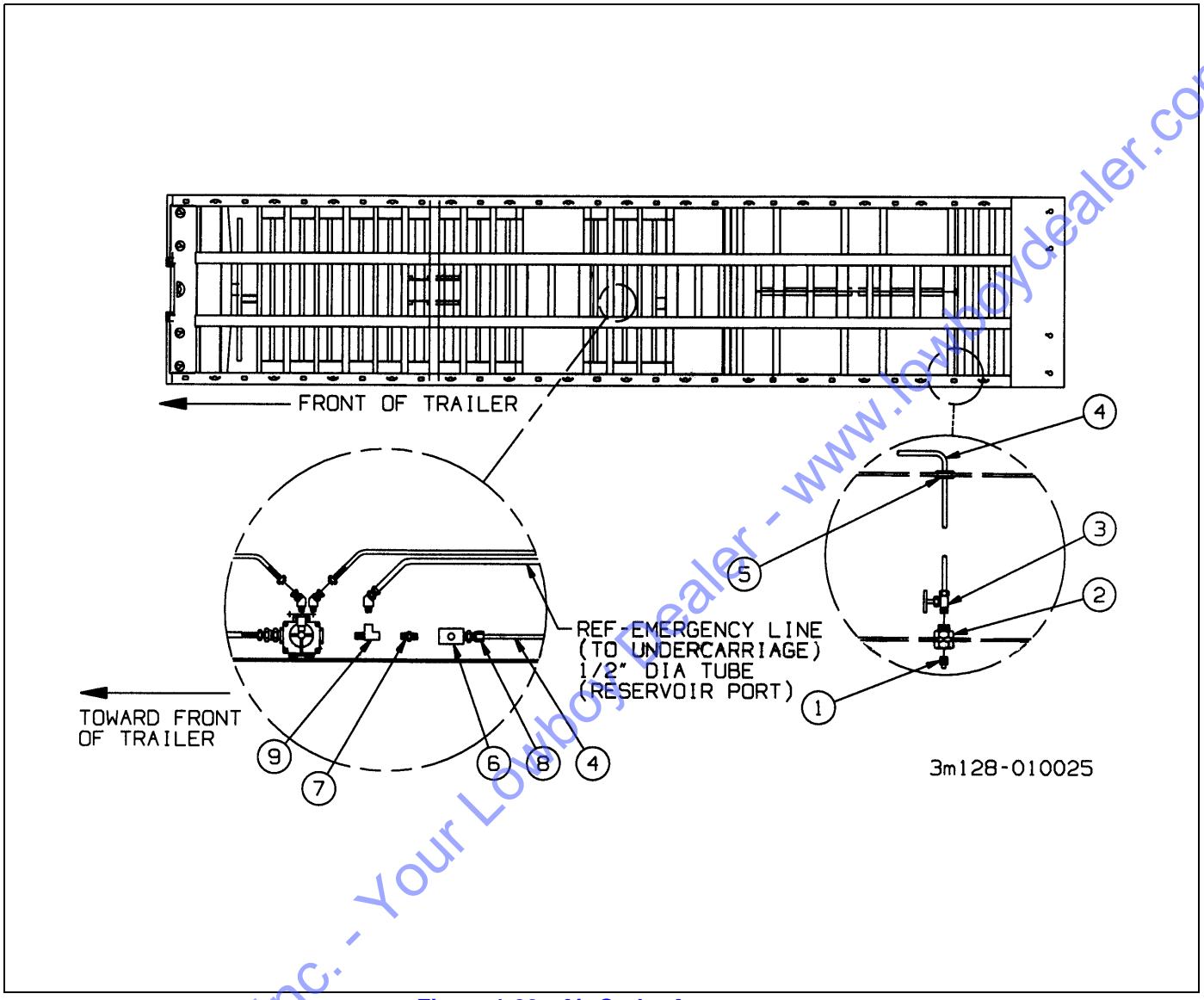
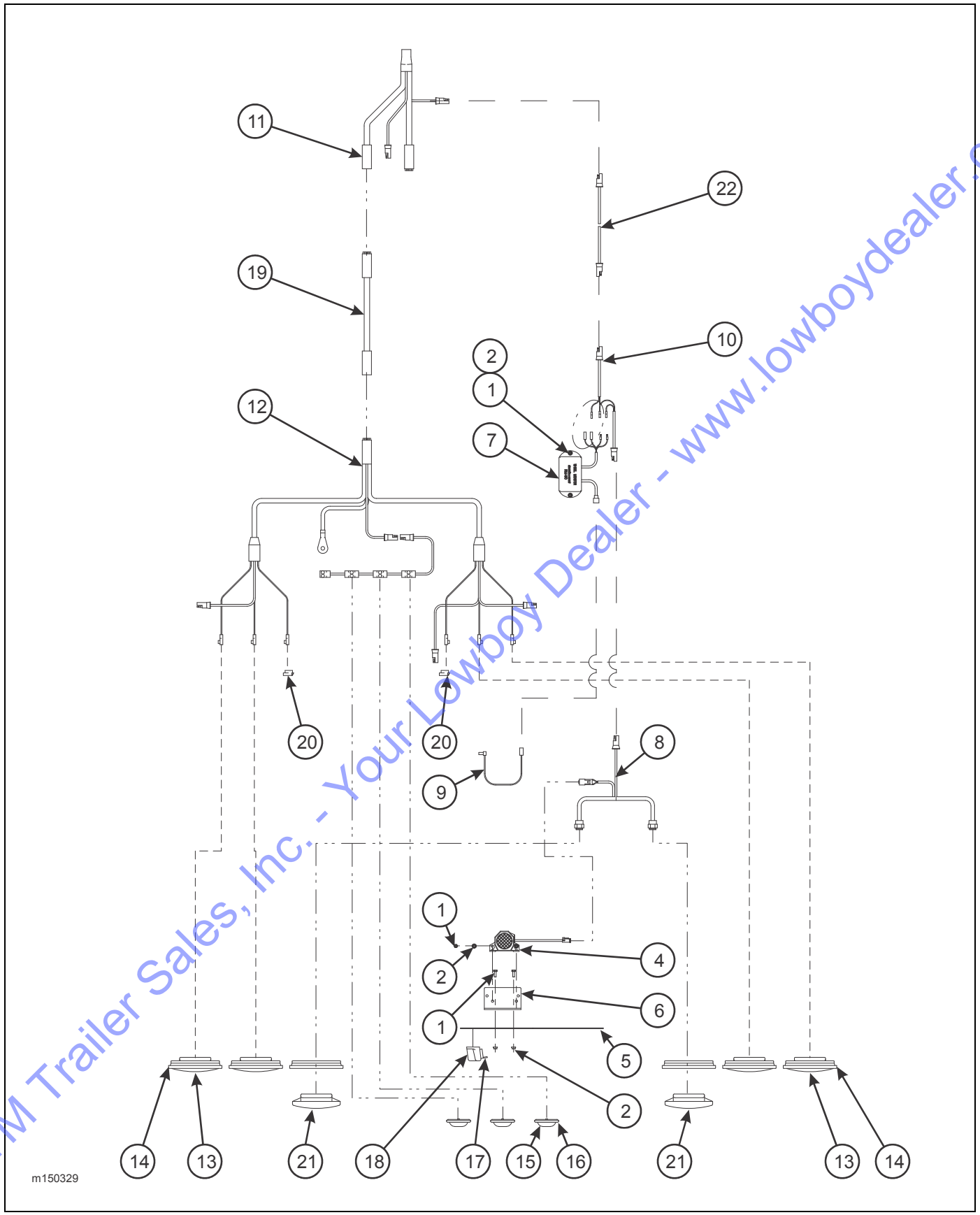


Figure 1-83: Air Outlet Accessory

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 1-84: 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
4	117997	ALARM, dB ADJUSTING SMART BACKUP	1
5	119531	PLATE, TAG MOUNT	REF
6	127991	BRACKET, BACKUP ALARM MOUNT	1
7	150072	REVERSE DETN MODULE AND SENSOR	1
8	166872	HARNESS, BACKUP LIGHT/ALARM	1
9	137559	SENSOR, DIRECTIONAL CABLE 6.5’	1
10	150074	HARNESS, MODULE/ALARM	1
11	143103	HARNESS, E-CHAIN	REF
12	143104	HARNESS, BUMPER	REF
13	143113	LIGHT, RED LED OVAL STT	REF
14	143114	GROMMET, OVAL	REF
15	143115	LIGHT, RED LED RECTANGLE CLEARANCE	REF
16	143116	GROMMET, RECTANGLE	REF
17	143117	LIGHT, CLEAR LED LICENSE	REF
18	143118	BRACKET, LIGHT LICENSE	REF
19	143166	HARNESS, EXT 48”	REF
20	144608	DUMMY PLUG FOR FEMALE PLUG	2
21	150330	GROTE LED BACKUP CLEAR	2
22	3-368-010252	HARNESS ASSEMBLY, BULKHEAD EXTENSION	1

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Bulkheads - Options

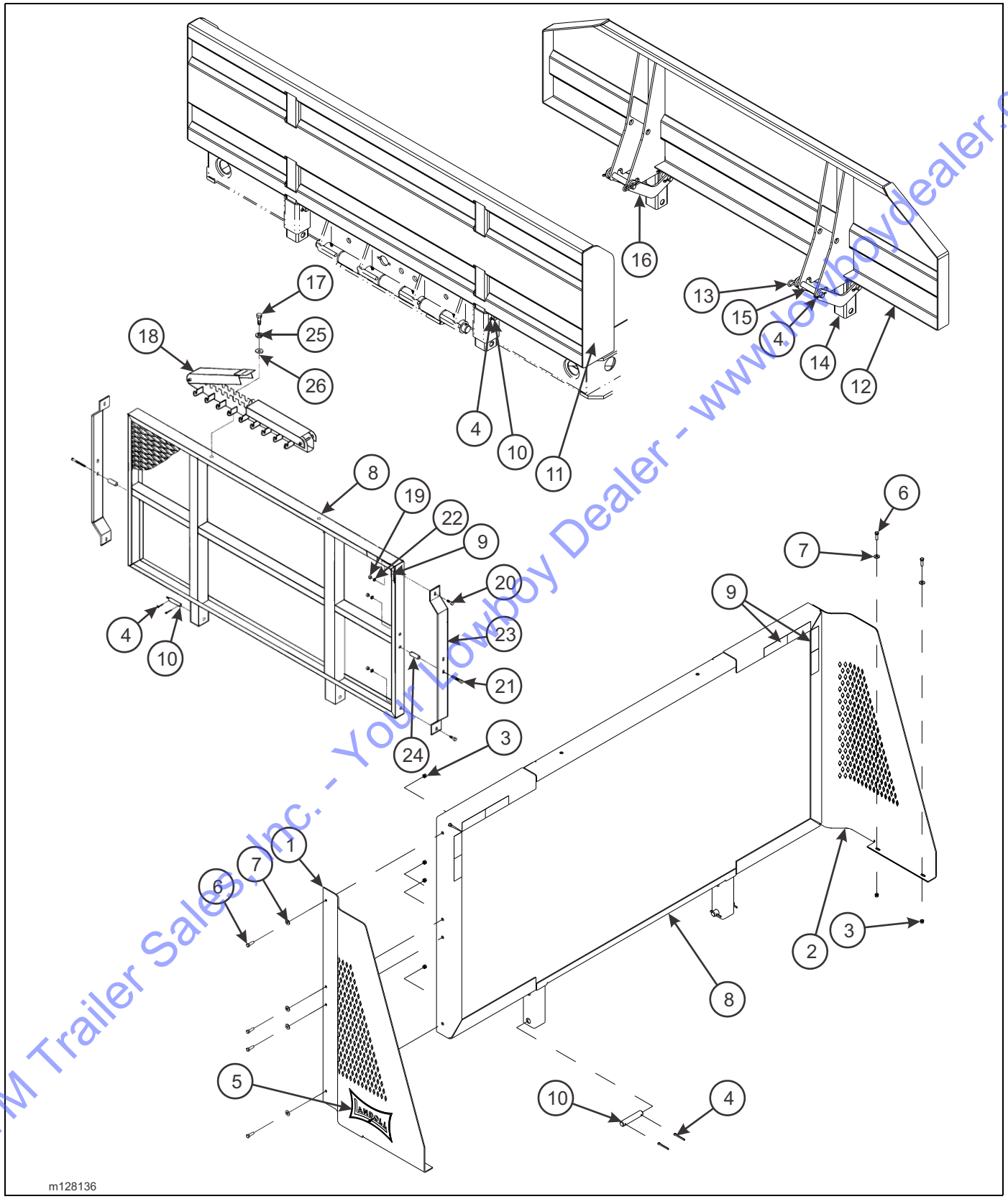


Figure 1-85: Bulkhead Assembly

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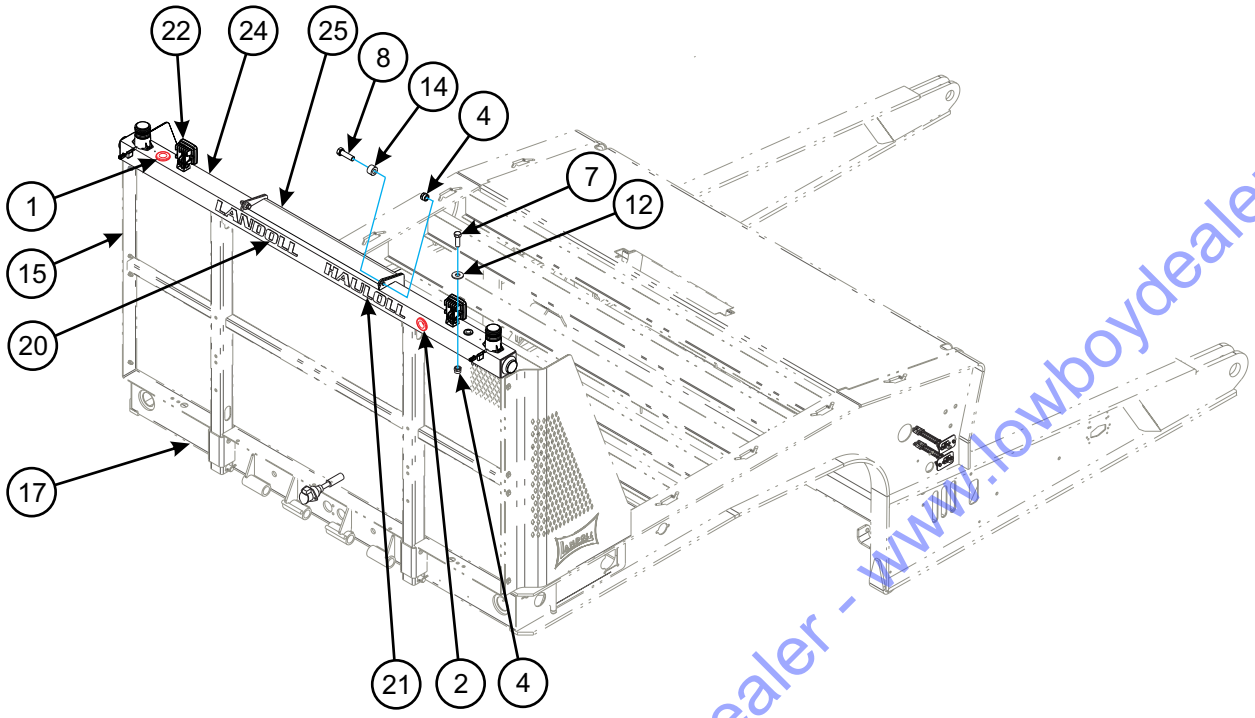
Bulkhead Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	128136	BULKHEAD INSTALLATION **(ITEMS 1-10)**	
	134616	BULKHEAD INSTALLATION 26 X 102 **(ITEMS 4, 9-10 & 11)**	
	136848**	EXTENSION INSTALLATION 16/24 **(ITEMS 4 & 12-16)**	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION **(ITEMS 6,7,17 &18)**	
	3-141-010121	BULKHEAD INSTALLATION **(ITEMS 4, 8-10 & 19-24)**	
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	**10, 4
5	153754	DECAL, BOW TIE - BLACK **(SEE PAGE 1-137)**	2
	153755	DECAL, BOW TIE - WHITE **(SEE PAGE 1-137)**	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
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	1-654-010055-03	SCREW HEX CAP 1/2-13UNCX1-1/2	2
18	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	1
19	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
20	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
21	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
22	1-861-010032-15	WASHER, FLAT 1/2W	6
23	3-054-010101	BAR, SIDE 48" BULKHEAD 102"	2
24	3-711-010025	SPACER, 48" BULKHEAD	2
25	1-861-010034-13	WASHER, LKG HLCL SPR 1/2	2
26	1-861-010032-15	WASHER, FLAT 1/2W ZP/CD	2

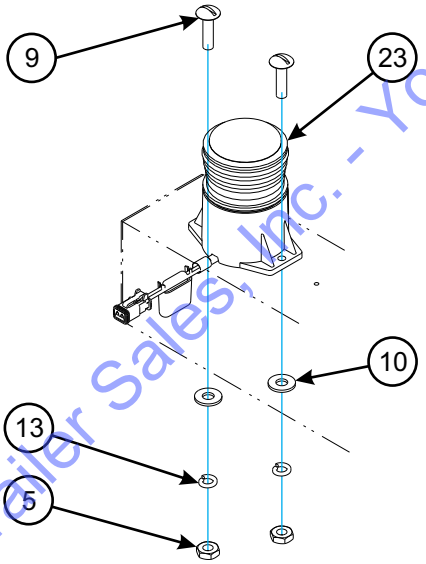
** 1ST QUANITY IS USED WITH P/N - 136848
2ND QUANITY IS USED WITH P/N - 128136, 134616, B7-141-003, & 3-141-010121

F-141-010121-2 FIELD INSTALLATION KIT **(ITEMS 4, 8-10 & 19-24)**

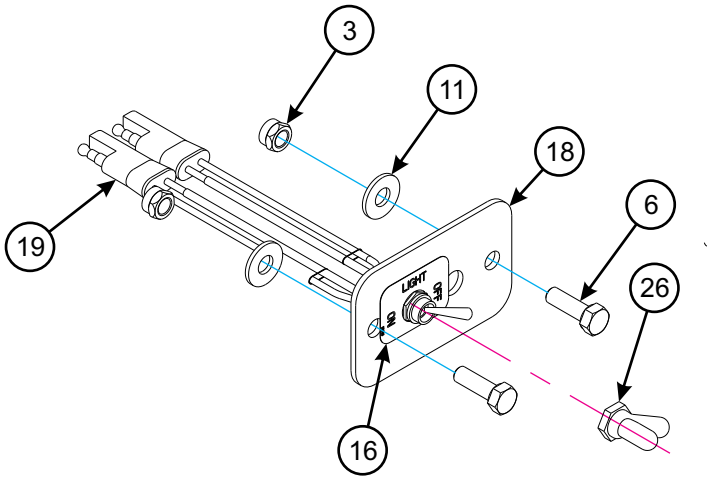
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GENERAL ASSEMBLY



STROBE LIGHT ASSEMBLY



SWITCH ASSEMBLY

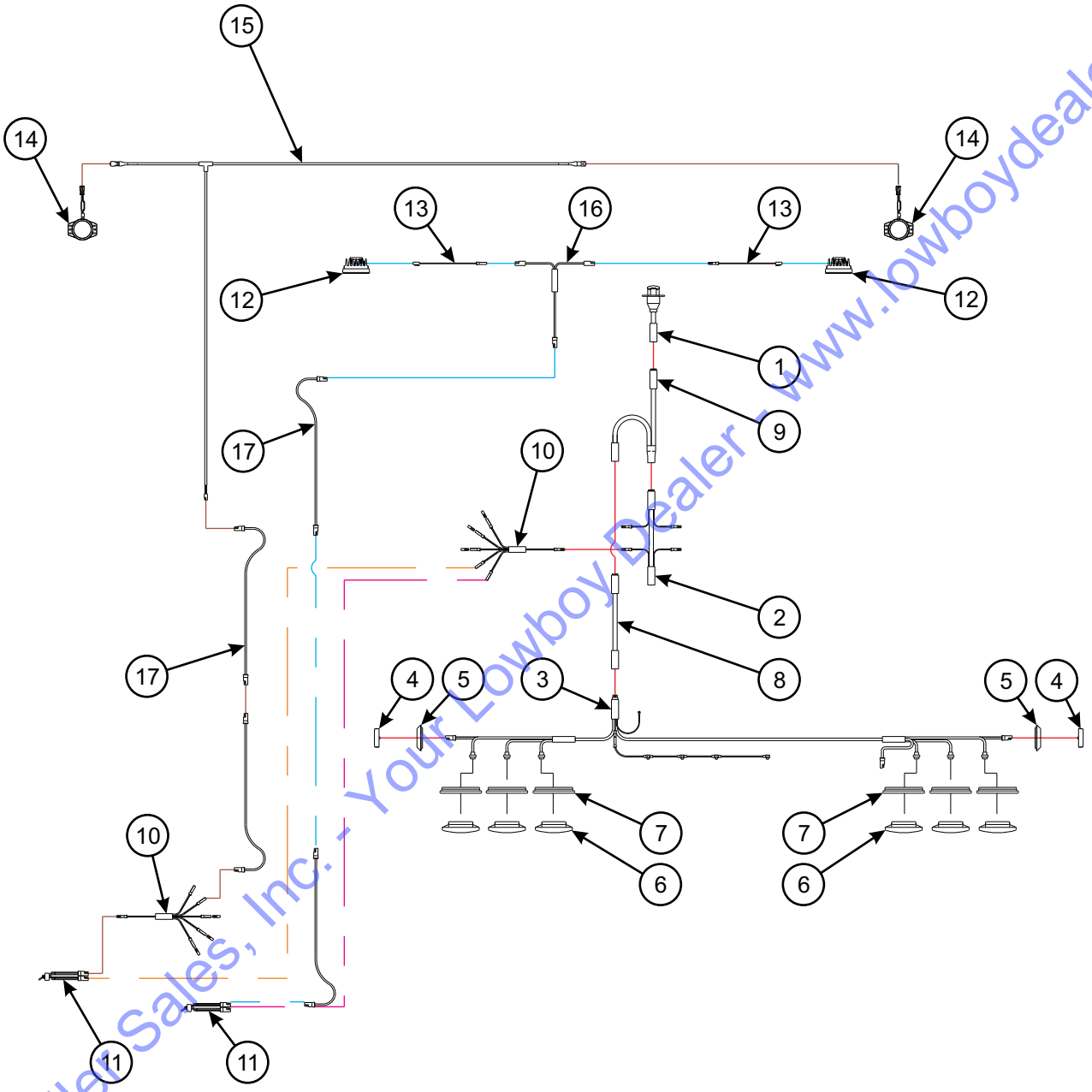
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Figure 1-86: Bulkhead - Chain Rack Lights General Assembly

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	128136	BULKHEAD INSTALLATION 400 **(SEE PAGE 1-149)**	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 LIGHT, 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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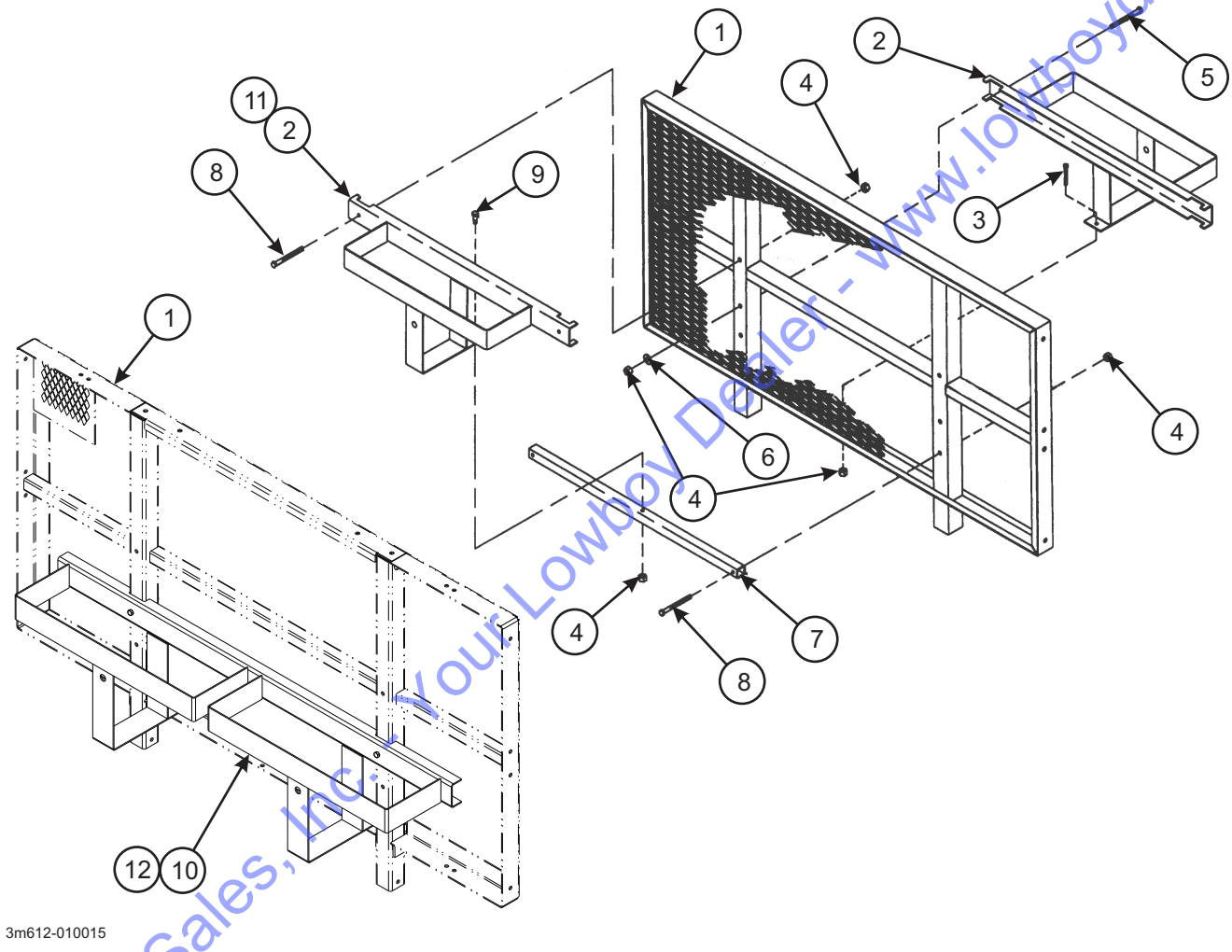
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Figure 1-87: Bulkhead - Chain Rack Lights Electrical System

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 LIGHT 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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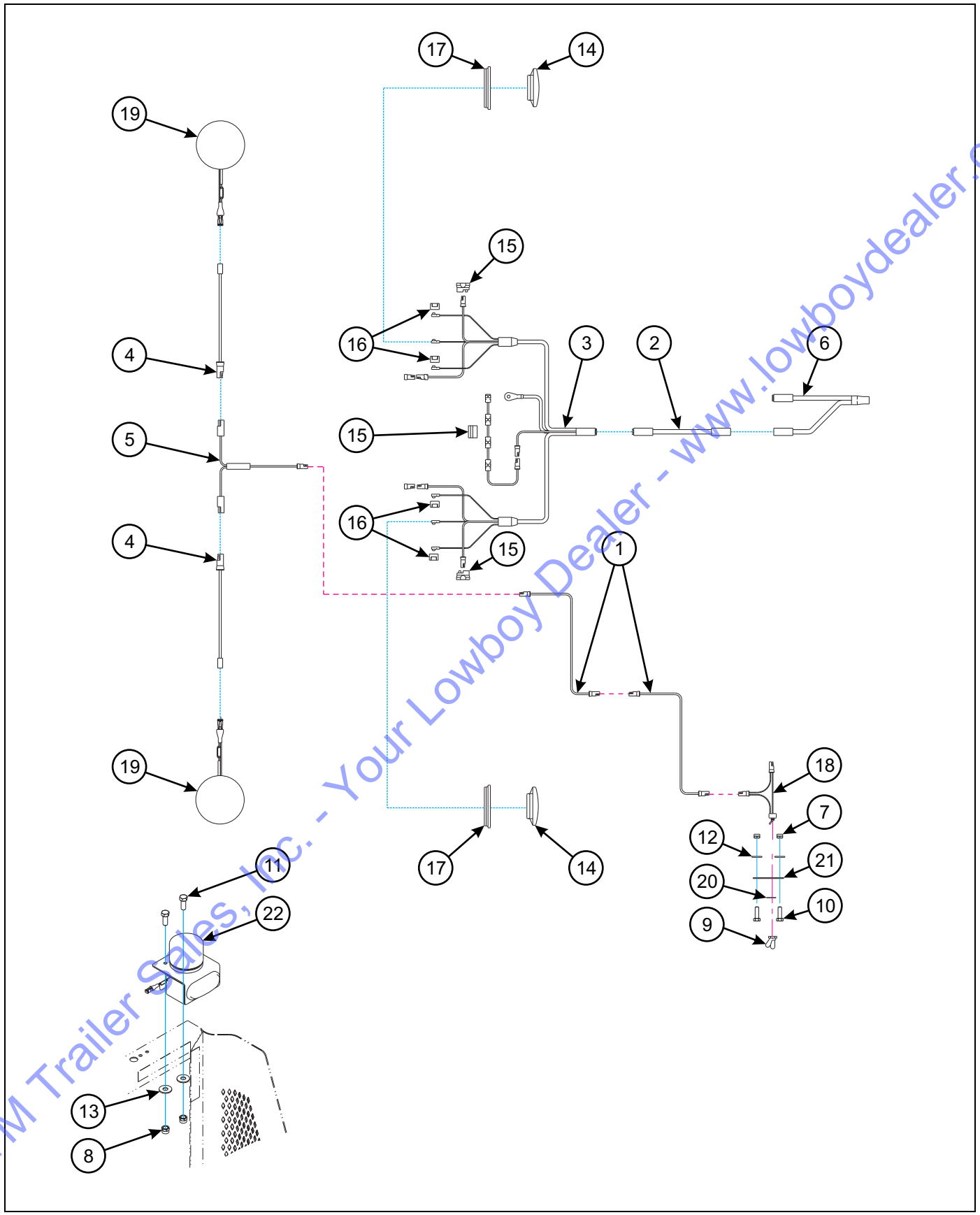
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Figure 1-88: Bulkhead - Rack Mount Installation

Bulkhead - Rack Mount Installation

ITEM	PART NO.	DESCRIPTION	QTY				
	3-612-010015-1	RACK INSTALLATION BHD, FRONT MOUNT 10R17.5	*				
	3-612-010015-2	RACK INSTALLATION BHD, REAR MOUNT 10R17.5		*			
	3-612-010015-3	RACK INSTALLATION BHD, FRONT MOUNT DUAL 10R17.5			*		
	112986	RACK INSTALLATION BHD, FRONT MOUNT 255/70R22.5				*	
	129573	RACK INSTALLATION BHD, FRONT MOUNT DUAL 255/22.5					*
1	-----	BULKHEAD WELDMENT	REF	REF	REF	REF	REF
2	3-612-010016	RACK WELDMENT, BULKHEAD MOUNT 10R17.5	1	1	--	--	--
3	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	1	--	2	1	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	3	5	4	3	4
5	1-654-010055-15	SCREW, HEX HEAD CAP 1/2-13 X 5 GR5	2	--	2	2	2
6	1-861-010032-15	WASHER, FLAT 1/2W	2	--	2	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	--	--
11	112987	RACK WELDMENT, BULKHEAD MOUNT 255/70R22.5	--	--	--	1	1
12	129572	RACK WELDMENT, BULKHEAD MOUNT DUAL 255/22.5	--	--	--	--	1

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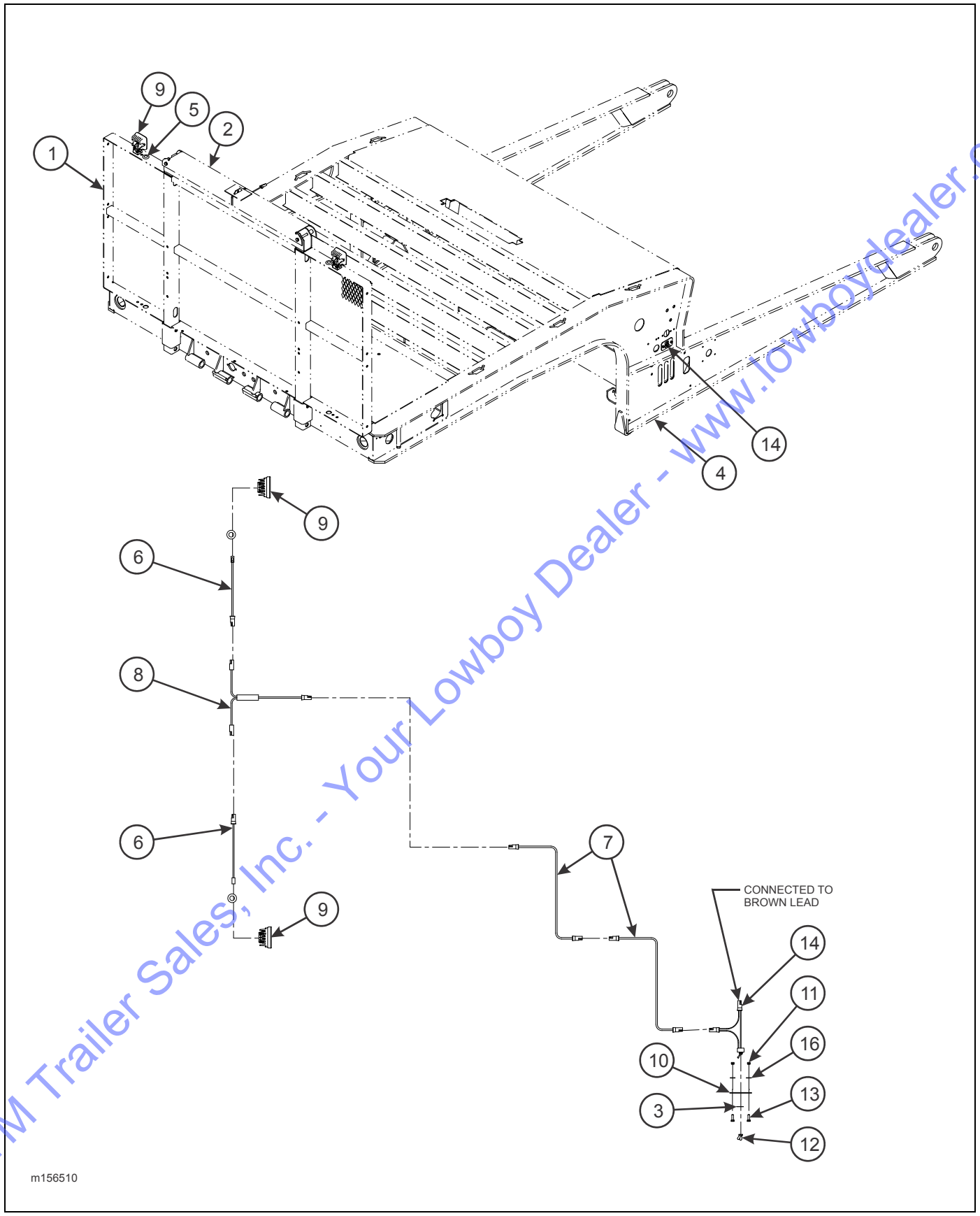
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Figure 1-89: Bulkhead - Strobe and Turn

Bulkhead - Strobe and Turn

ITEM	PART NO.	DESCRIPTION	QTY.
	156511	STOBE & TURN BULKHEAD	
1	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT.	2
2	143167	HARNESS, EXT 84IN, GROTE	1
3	143104	HARNESS, BUMPER GROTE	1
4	164052	HARNESS 60”, BRANCH WORK LIGHT	2
5	169853	HARNESS JUMPER, T-POWER	1
6	146929	HARNESS, Y SPLITTER GROTE	1
7	1-512-010005-03	NUT, HEX, SLFLKG, 5/16-18 UNC, GRB	2
8	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	4
9	81264	RUBBER BOOT FOR ELECTRIC SWITCH	1
10	1-654-010049-05	SCREW, HEX, CP, 5/16-18 UNC X 1 GR5	2
11	1-654-010055-02	SCREW, HEX, 1/2-13 UNC X 1-1/4 GR5	4
12	1-861-010032-09	WASHER, FLAT, ZP/CD, 5/16W	2
13	1-861-010032-09	WASHER, FLAT, ZP/CD, 1/2W	4
14	143113	LIGHT, RED LED, OVAL STT GROTE	2
15	143121	DUMMY PLUG, MALE/FEM BULLET	3
16	144608	DUMMY PLUG FOR FEMALE PLUG	4
17	60700	GROMMET, TRUCK LITE LIGHT	2
18	150117	TOGGLE SWITCH SEALED, S.P.S.T.	1
19	184501	STROBE LIGHT, DEUTSCH CONN	2
20	130116	DECAL, ON/OFF LIGHT	1
21	137987	MOUNT, ELECTRIC SWITCH 410	1
22	142529	MOUNT, WLDMT STROBE & TURN	2

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Figure 1-90: Bulkhead - Work Light Assembly

Bulkhead - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	156510	WORK LIGHT ASSEMBLY, BULKHEAD (OPTION)	
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	1
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)	AR
16	1-861-010032-09	WASHER, FLAT 5/16W	2

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Bumpers - Options

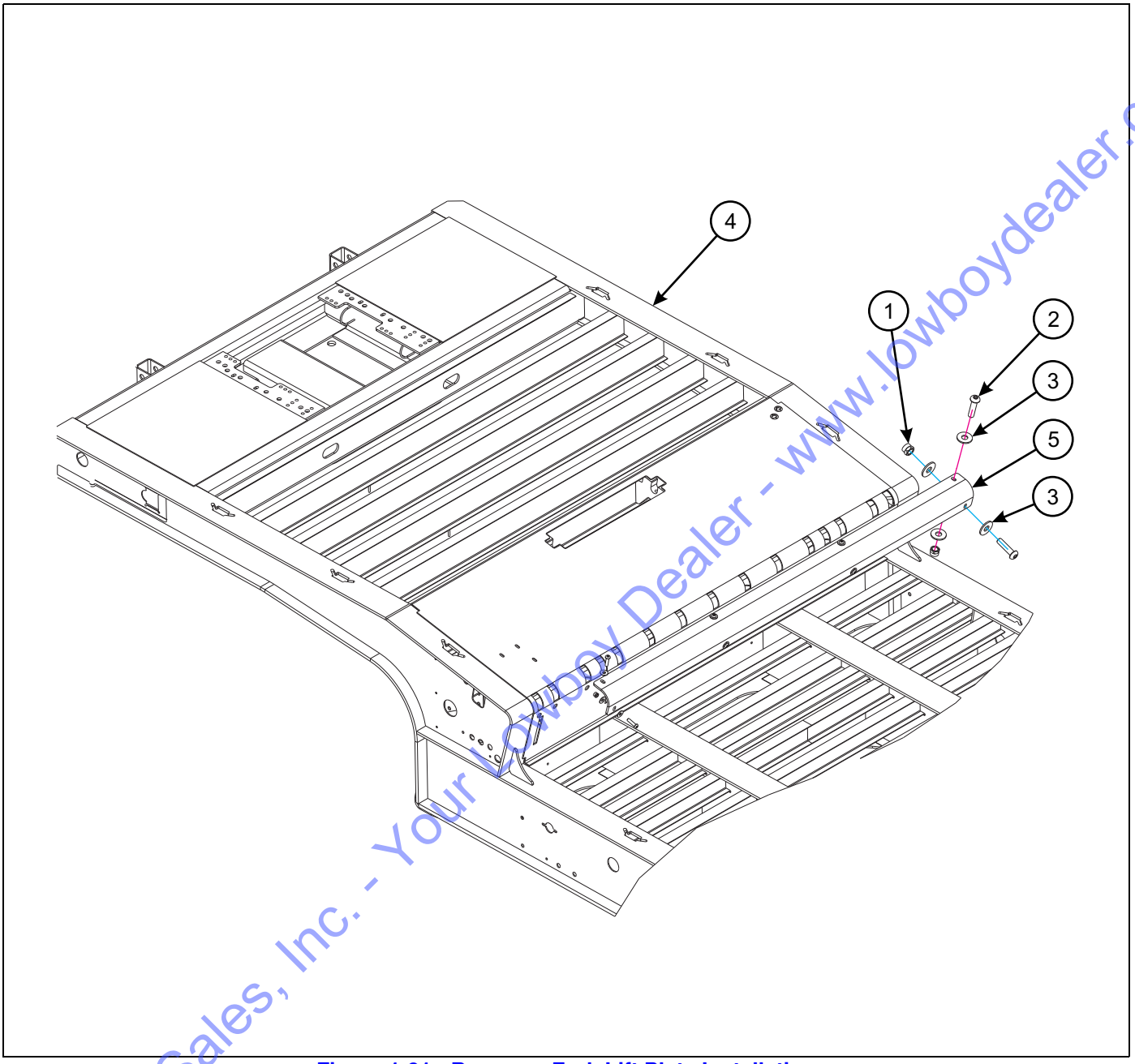


Figure 1-91: Bumper - Fork Lift Plate Installation

Bumper - Fork Lift Plate Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	141710	FORKLIFT BUMPER PLATE INSTALLATION	
1	1-512-01005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	8
2	1-654-010089-13	SCREW, SKT BTN, CP 1/2-13 UNC X 2	8
3	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	16
4	139540	FRAME WELDMENT, 950B-45	REF
5	141689	PLATE, FORKLIFT BUMPER, 930B	8

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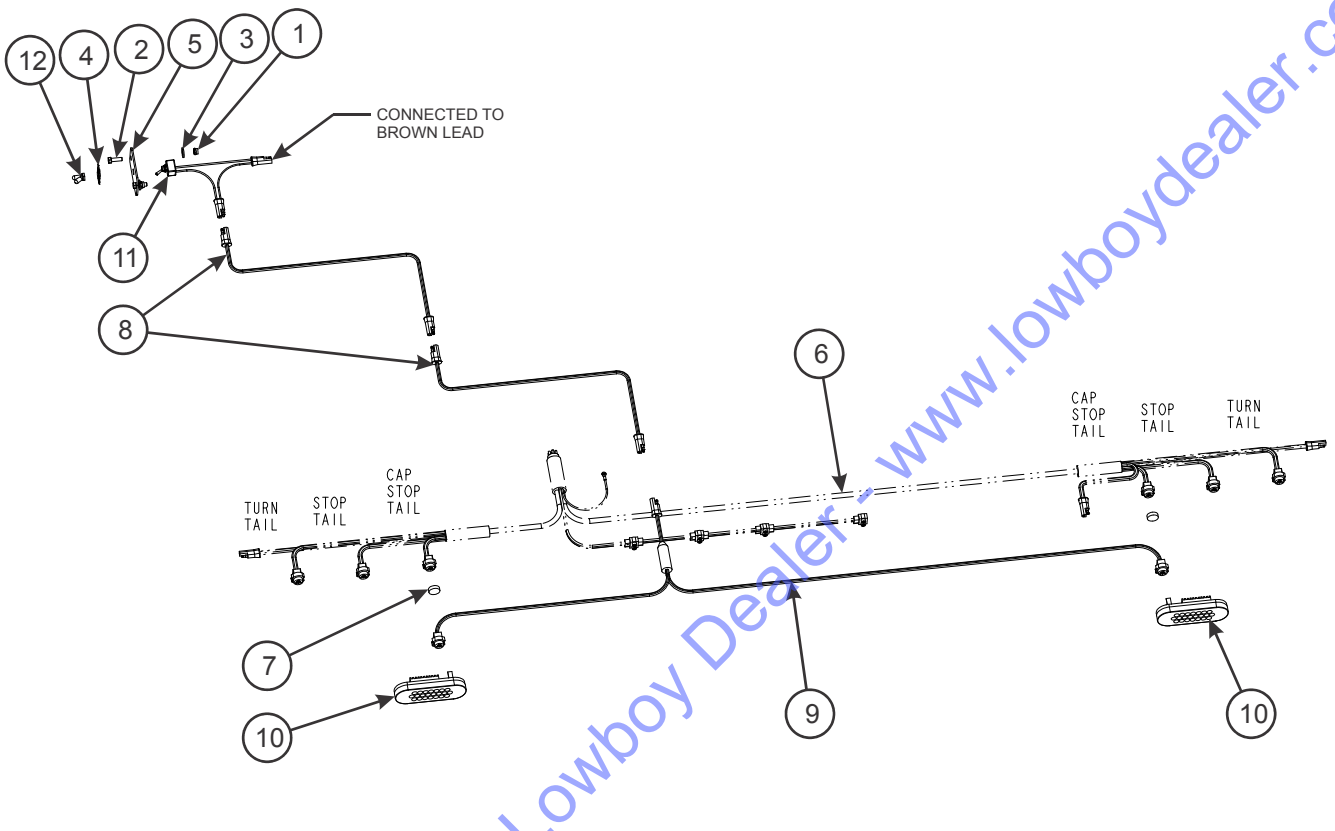


Figure 1-92: Bumper - Strobe Installation

Bumper - Strobe Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	156512	STROBE INSTALLTAION, 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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Deck & Slope - Options

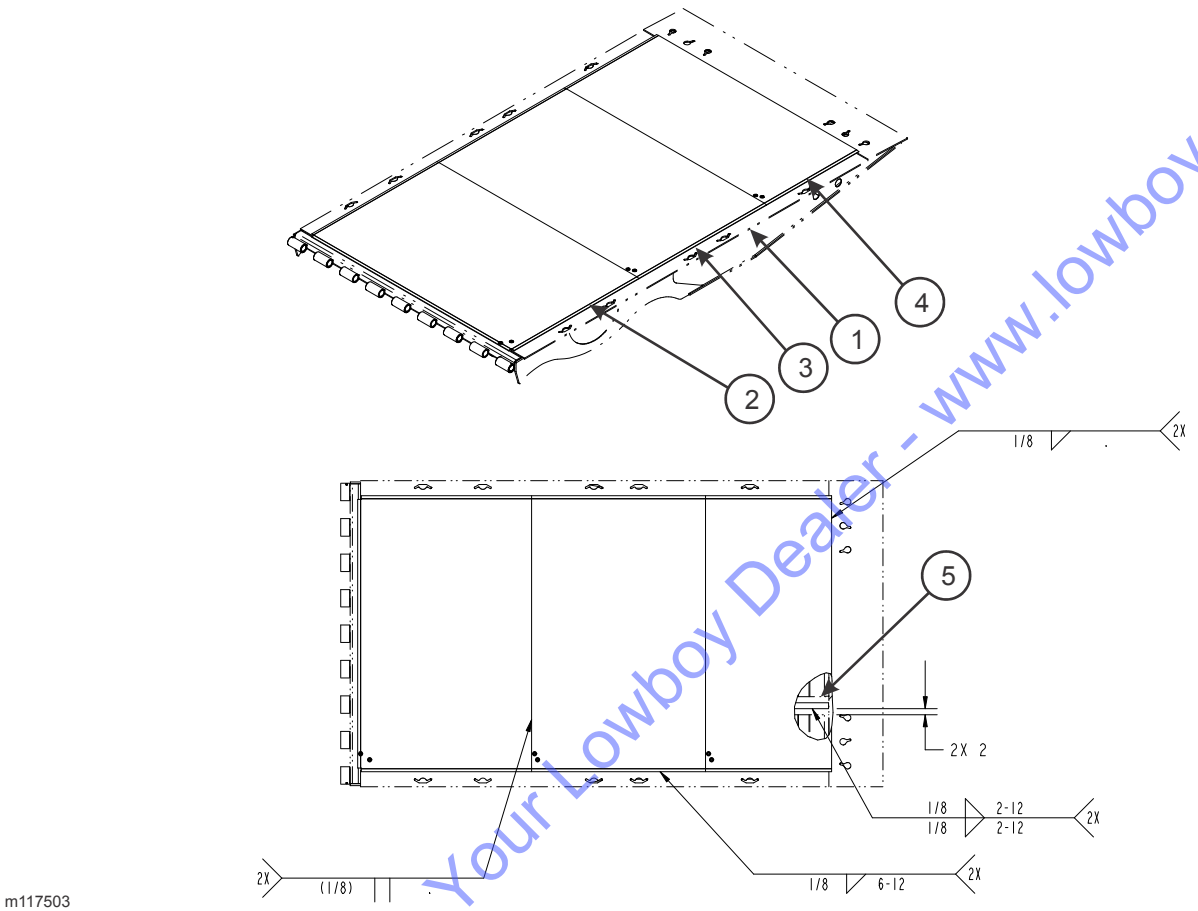


Figure 1-93: Deck Tread Grip/ Over Wood - 15’ Tail

Deck Tread Grip/Over Wood - 15’ Tail

ITEM	PART NO.	DESCRIPTION	QTY.
	117503	DECK TREAD GRIP/ OVER WOOD 15' TAIL	
1	113427	TAIL WELDMENT, 15' WOOD DECK	REF
2	117504	PLATE, TREAD GRIP 58 X 94-1/2 FRONT	1
3	117505	PLATE, TREAD GRIP 58 X 94-1/2	1
4	117506	PLATE, TREAD GRIP 42 X 94-1/2	1
5	117507	BAR, FLAT 1/4 X 2 X 156	2
	130266	DECK GRIP OVER WOOD 15' TAIL (FIELD INSTALL KIT)	
	134739	DECK GRIP OVER WOOD 12' TAIL (FIELD INSTALL KIT)	

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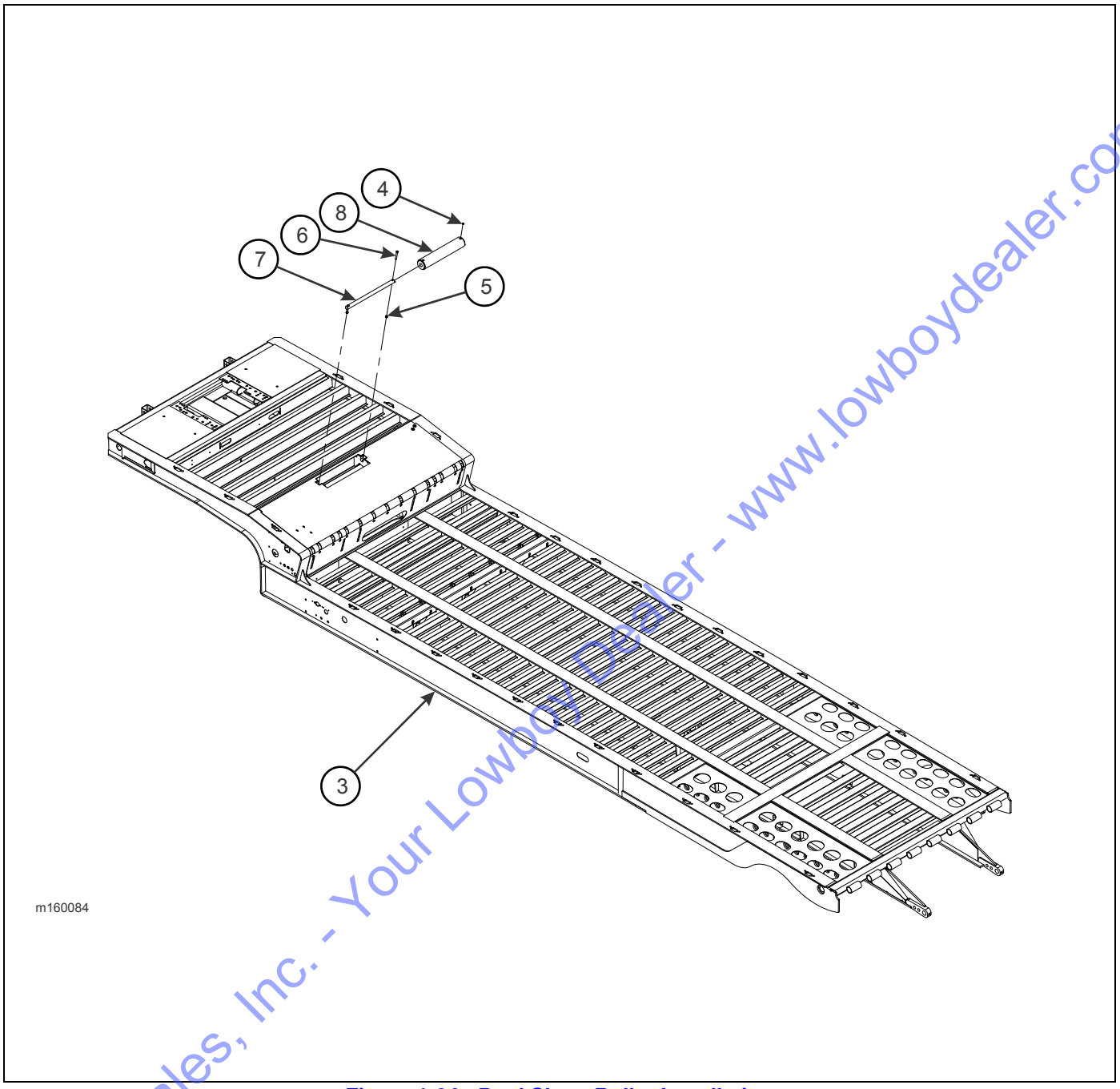


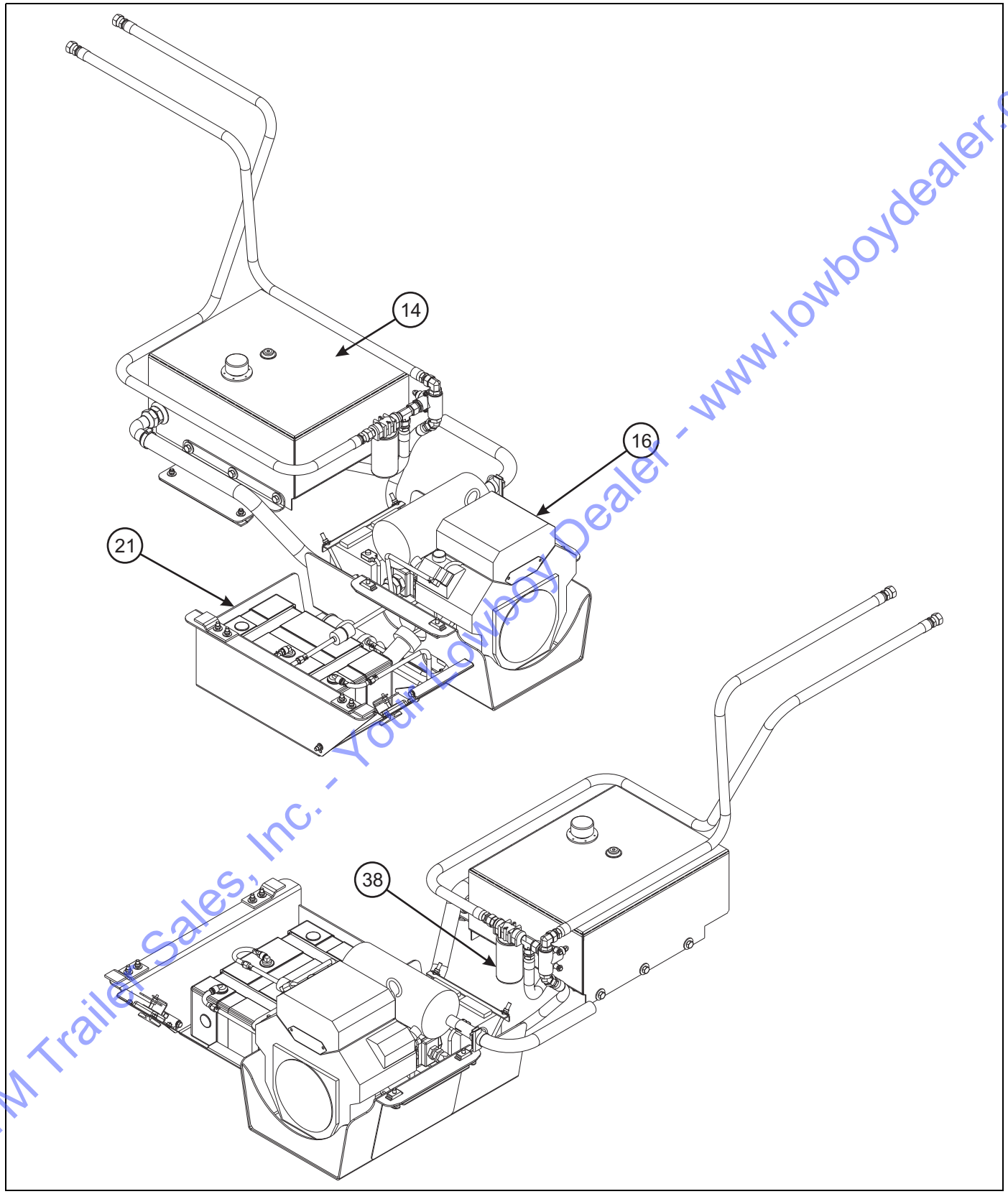
Figure 1-94: Dual Slope Roller Installation

Dual Slope Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	160084	DUAL SLOPE ROLLER INSTALLATION	
3	-----	FRAME, MOD DUAL SLOPE ROLL	1
4	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
5	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
6	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
7	3-642-010134	ROLLER ROD	2
8	3-645-010059	ROLLER WELDMENT, CABLE - UPPER DECK	2

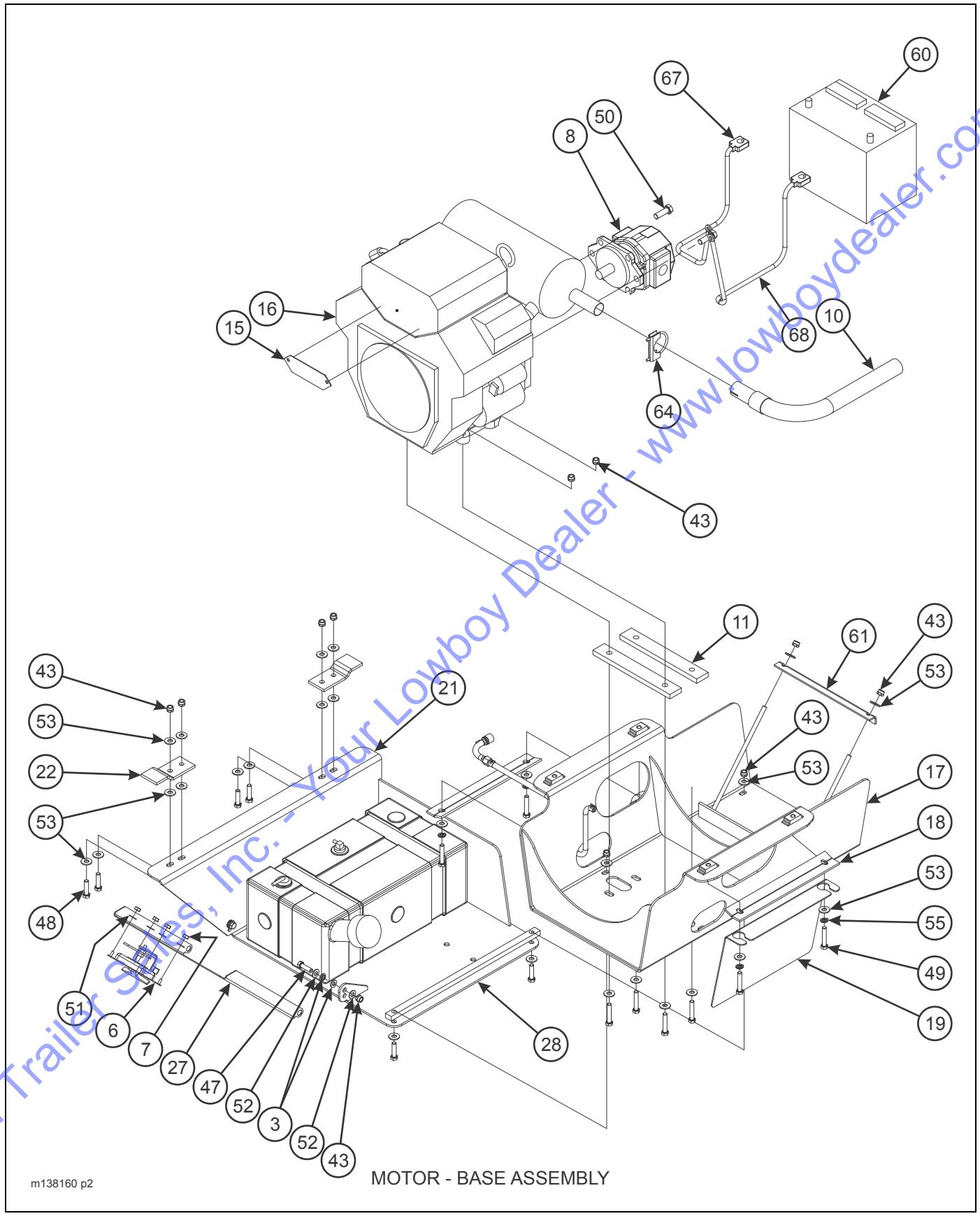
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Engines - Options



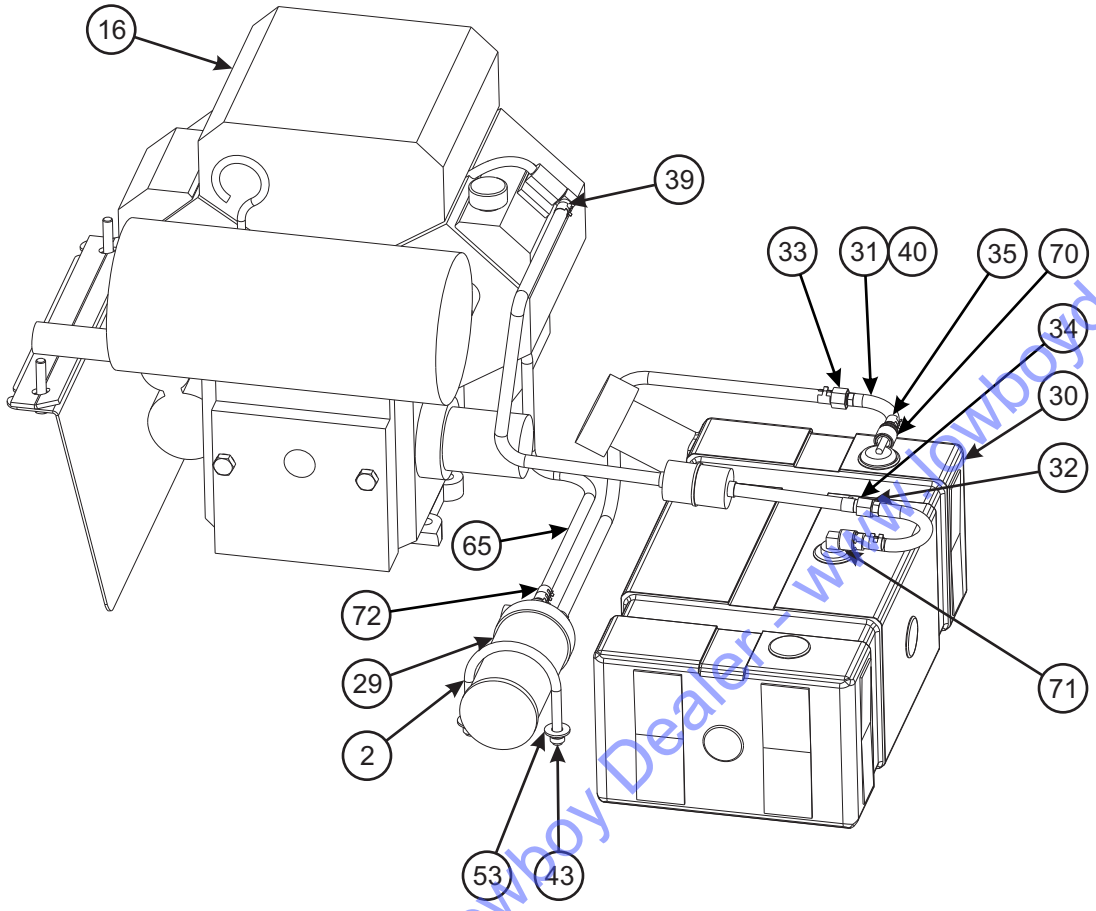
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Figure 1-95: Engine - 27 HP Slope Package (1 of 4)

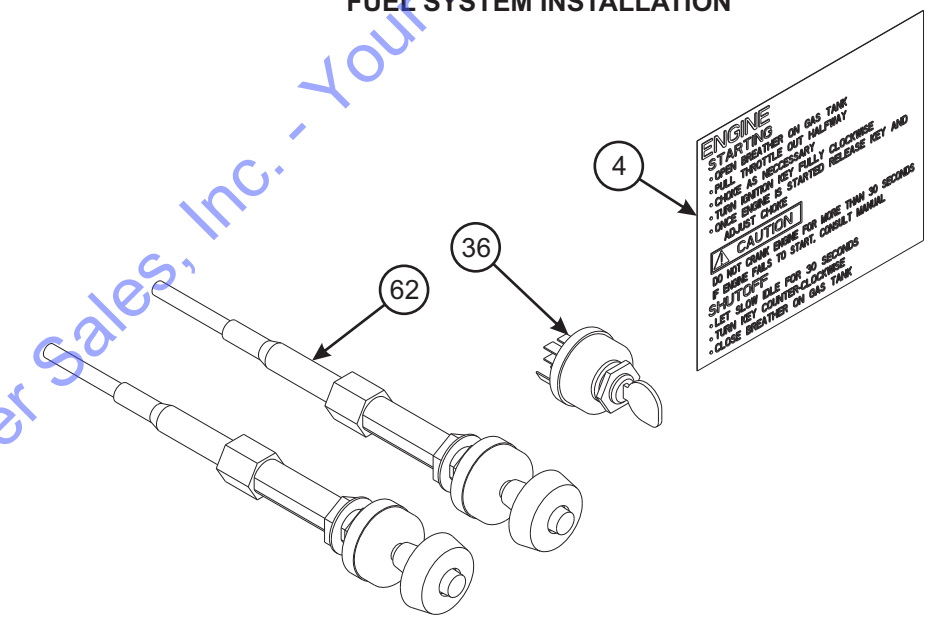


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Figure 1-96: 27 HP Slope Engine Package (2 of 4)



FUEL SYSTEM INSTALLATION



m138160 p3

CONTROLS AND DECALS

Figure 1-97: 27 HP Slope Engine Package (3 of 4)

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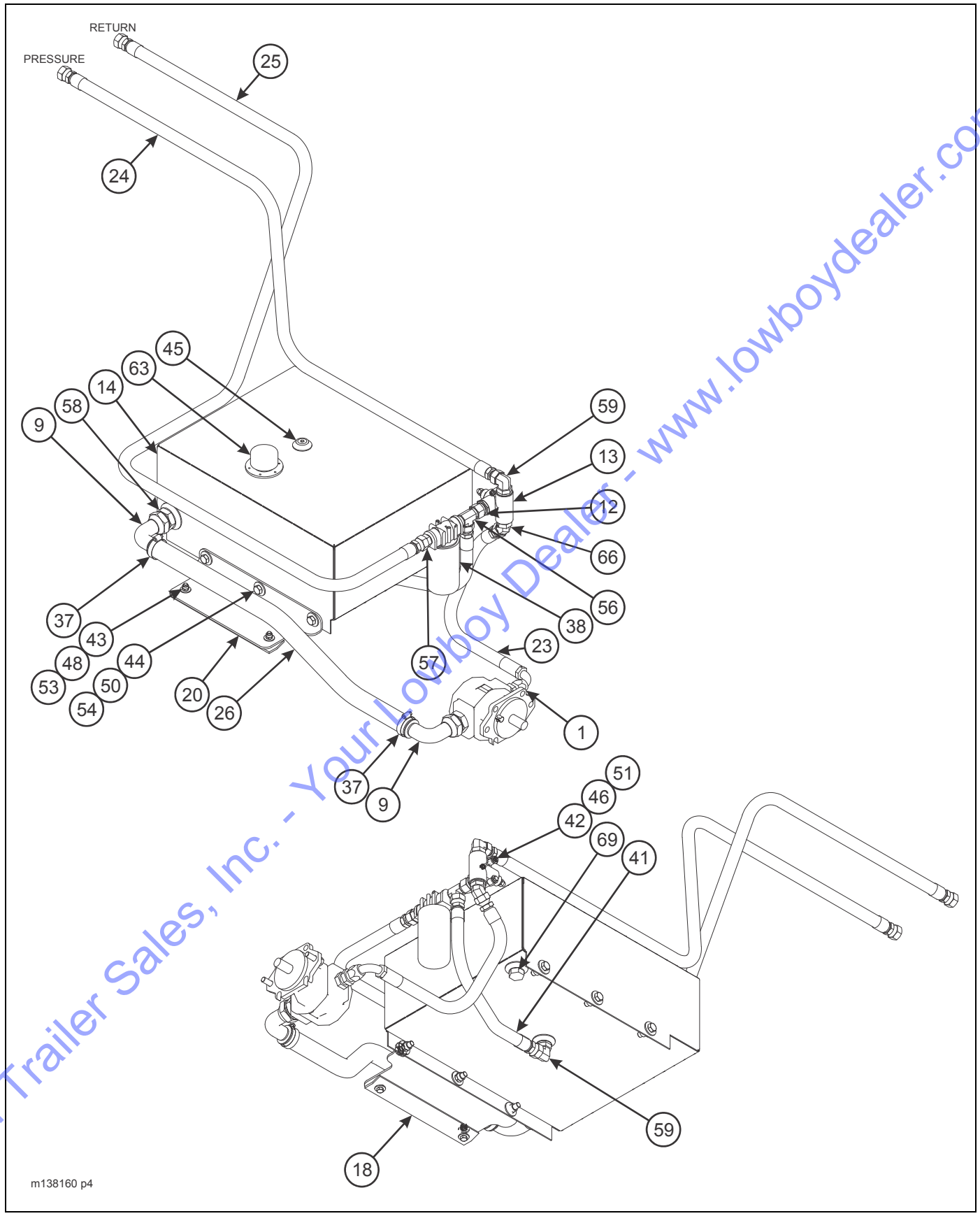


Figure 1-98: 27 HP Slope Engine Package (4 of 4)

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Engine - 27 HP Slope Package

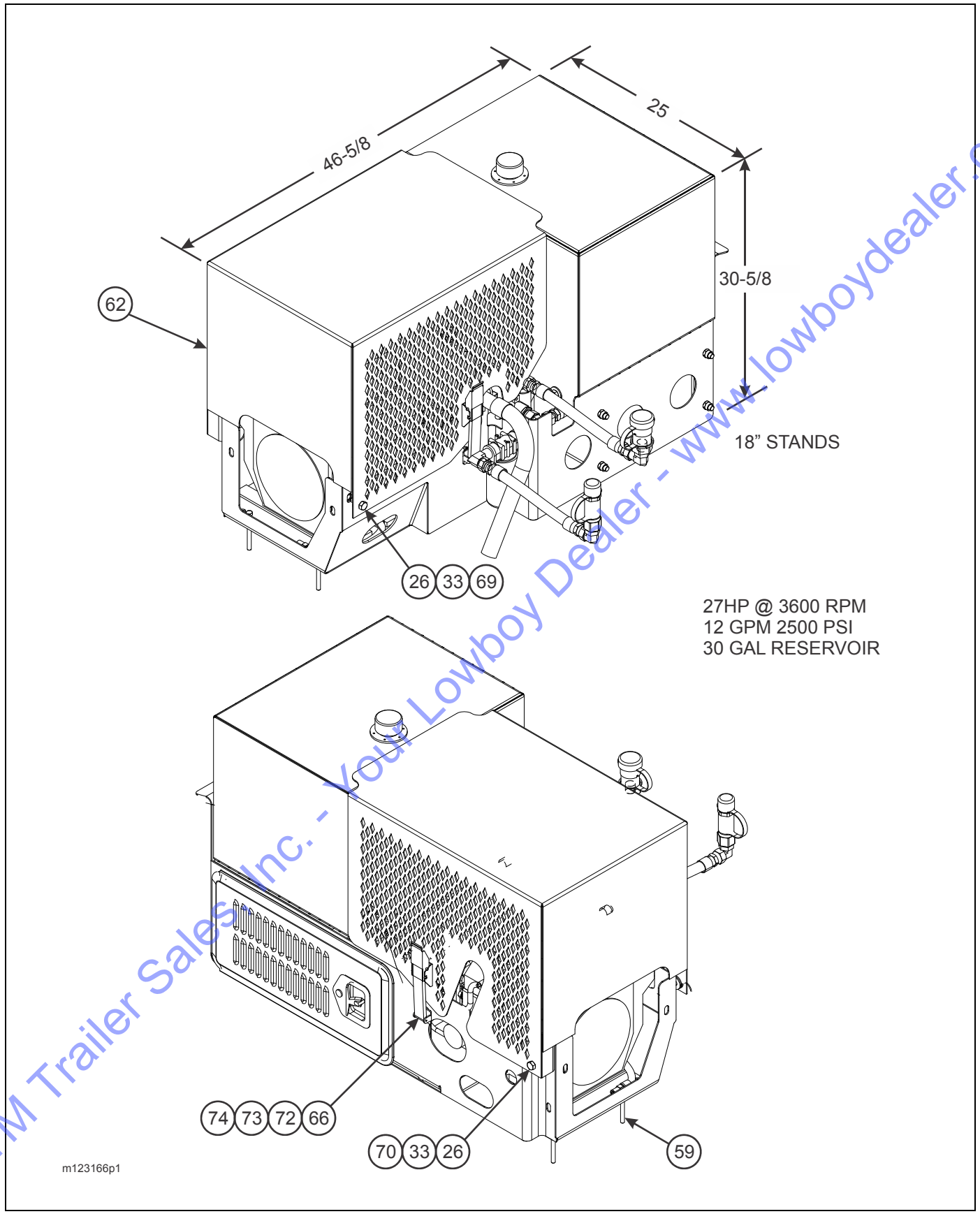
ITEM	PART NO.	DESCRIPTION	QTY.
	138160	ENGINE PACKAGE, GAS 27 HP SLOPE	
1	105483	ADAPTER, BULKHEAD	1
2	110578	U-BOLT, FENDER MOUNT	1
3	112248	NYLON SHOULDER WASHER	4
4	113388	DECAL, ENGINE PACKAGE INSTRUCTION	1
5	113544	HARNESS ENGINE PACKAGE **(NOT SHOWN)**	1
6	114814	LATCH, FOLDING T LOCKABLE	1
7	115877	NUT, HEAVY HEX 1/4-20 GR5	4
8	115888	PUMP, HYDRAULIC .88CID GEAR	1
9	116330	FITTING, 90	2
10	119445	EXHAUST EXTENSION WELDMENT 25HP	1
11	120659	ISOLATOR, KOHLER 25HP MOUNT	2
12	120660	ADAPTER	1
13	120661	VALVE, HYD PRESSURE RELIEF	1
14	120662	HYDRAULIC TANK WELDMENT 15 GAL E/P	1
15	123014	PLATE, MOTOR FRONT, 25HP E/P	1
16	127813	ENGINE, KOHLER 27HP PUMP MOUNT	1
17	138114	BASE WELDMENT	1
18	138144	CLAMP	3
19	138145	SHIELD	1
20	138146	BRACKET, TANK MOUNT	1
21	138192	TRAY WELDMENT	1
22	138206	MOUNT, TRAY GAS TANK	2
23	138818	HOSE ASSEMBLY, 3/4 X 24	1
24	139071	HOSE ASSEMBLY, 3/4 X 72	1
25	139072	HOSE ASSEMBLY, 3/4 X 105	1
26	139073	HOSE, SUCTION 1-1/4 X 33	1
27	156171	DOOR, GAS TANK TRAY	1
28	156173	FUEL TANK TRAY SPACER, 1/2”	1
29	166766	CARBON CANISTER, FUEL TANK	1
30	169531	TANK, FUEL PLASTIC 6 GAL LOW PERM	1
31	169532	HOSE, FUEL 1/4 LOW PERM CARB	AR
32	170109	FITTING	1
33	170111	FITTING	1
34	173860	FITTING	2
35	178638	SPRING CLAMP 1/2” OD FUEL HOSE	8
36	2509904	KOHLER IGNITION SWITCH	REF
37	1-181-010046-7	CLAMP, HOSE	2
38	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
39	1-297-010034-01	FITTING BRASS 90	1
40	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	AR
41	1-397-010304025	HOSE ASSEMBLY 3/4 X 25	1
42	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
43	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	18
44	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
45	1-560-010002-04	PLUG PIPE 1/2	1
46	1-654-010047-09	SCREW, HEX HEAD CAP SP 1/4-20 X 1-3/4 GR5	2

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Engine - 27 HP Slope Package

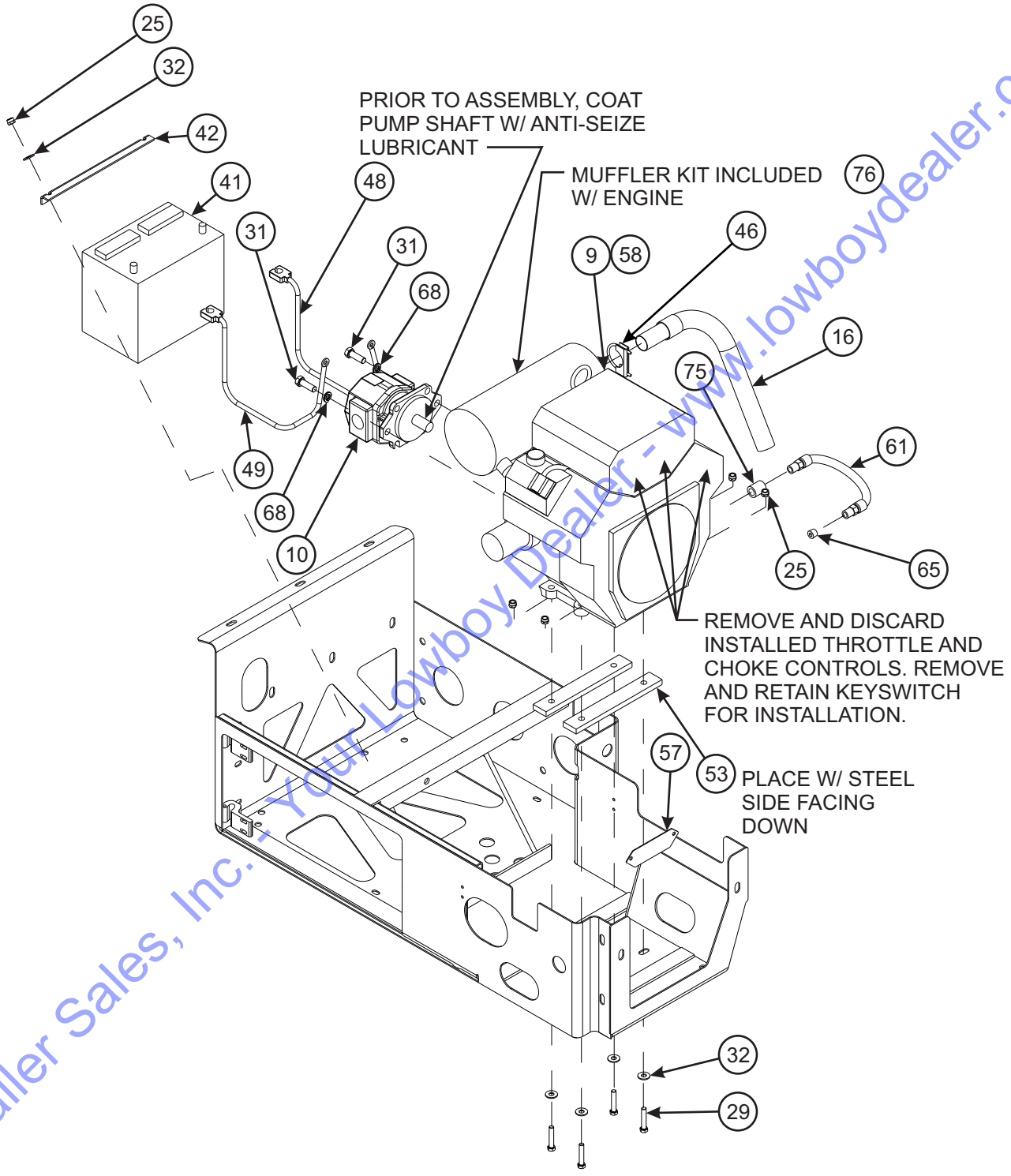
ITEM	PART NO.	DESCRIPTION	QTY.
47	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
48	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
49	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	8
50	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
51	1-861-010032-07	WASHER, FLAT 1/4W	6
52	1-861-010032-10	WASHER, FLAT 3/8N	4
53	1-861-010032-11	WASHER, FLAT 3/8W	32
54	1-861-010032-15	WASHER, FLAT 1/2W	12
55	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
56	102-0204	ADAPTER TEE	1
57	2021-12-12S	ADAPTER	1
58	202702-20-20S	ADAPTER	2
59	2062-12-12S	ADAPTER, 90	2
60	2481X	BATTERY, 12V	1
61	3-120-010124	BATTERY CLAMP BRACKET	1
62	3-155-010012	CABLE THROTTLE	2
63	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
64	3-182-010028	CLAMP, MUFFLER	1
65	3-316-010008	3/16 ID FUEL HOSE	AR
66	40-0667-02	ELBOW, 45	1
67	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
68	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
69	900598-12S	PLUG	1
70	170112	FITTING	1
71	170110	FITTING	1
72	179090	SPRING CLAMP 7/16” OD FUEL HOSE	2
73	199105	FUEL FILTER KOHLER, 25-050-42-S **(NOT SHOWN)**	1

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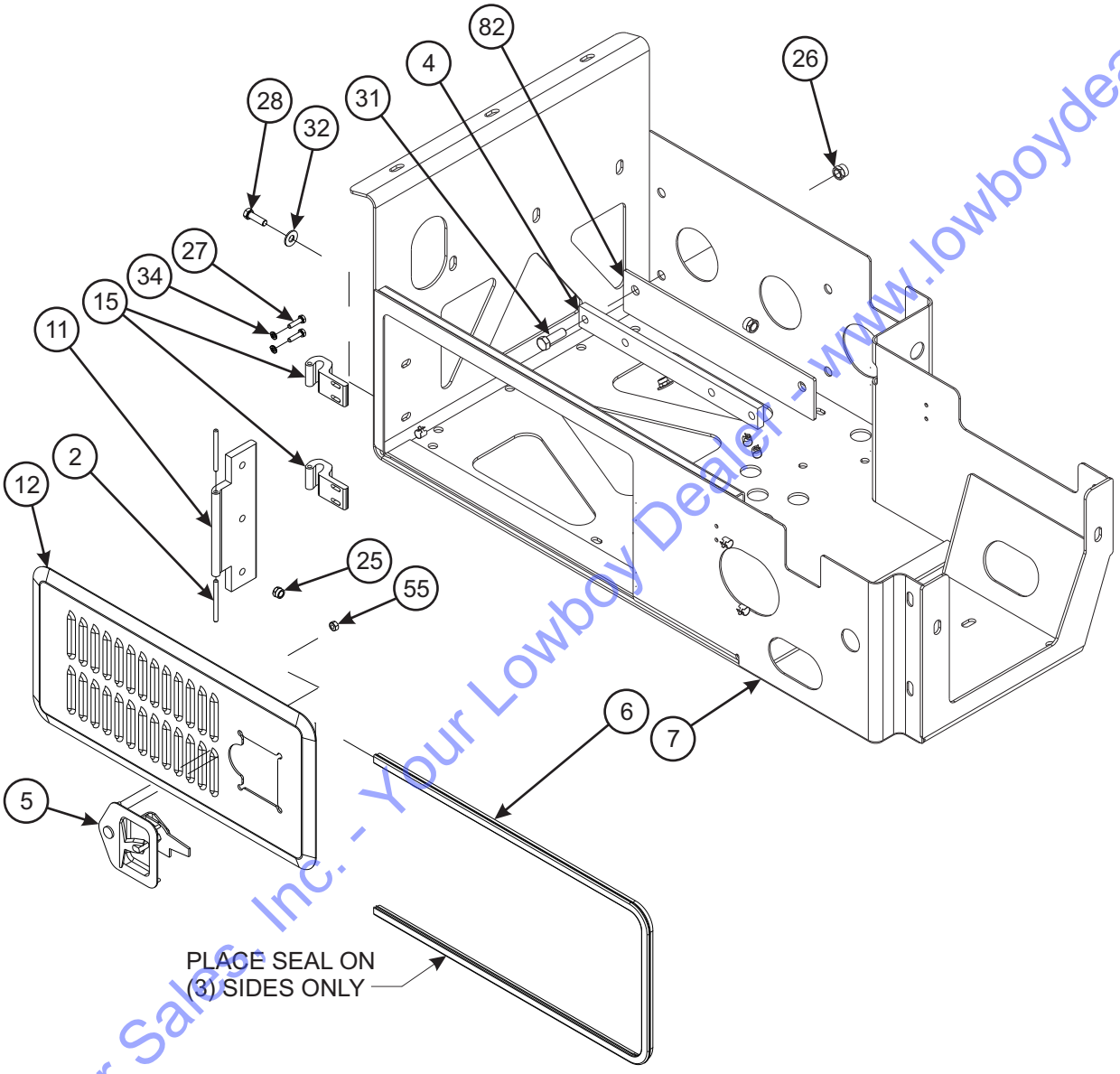
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Figure 1-99: Engine - 27 HP Upper Deck Package (1 of 4)



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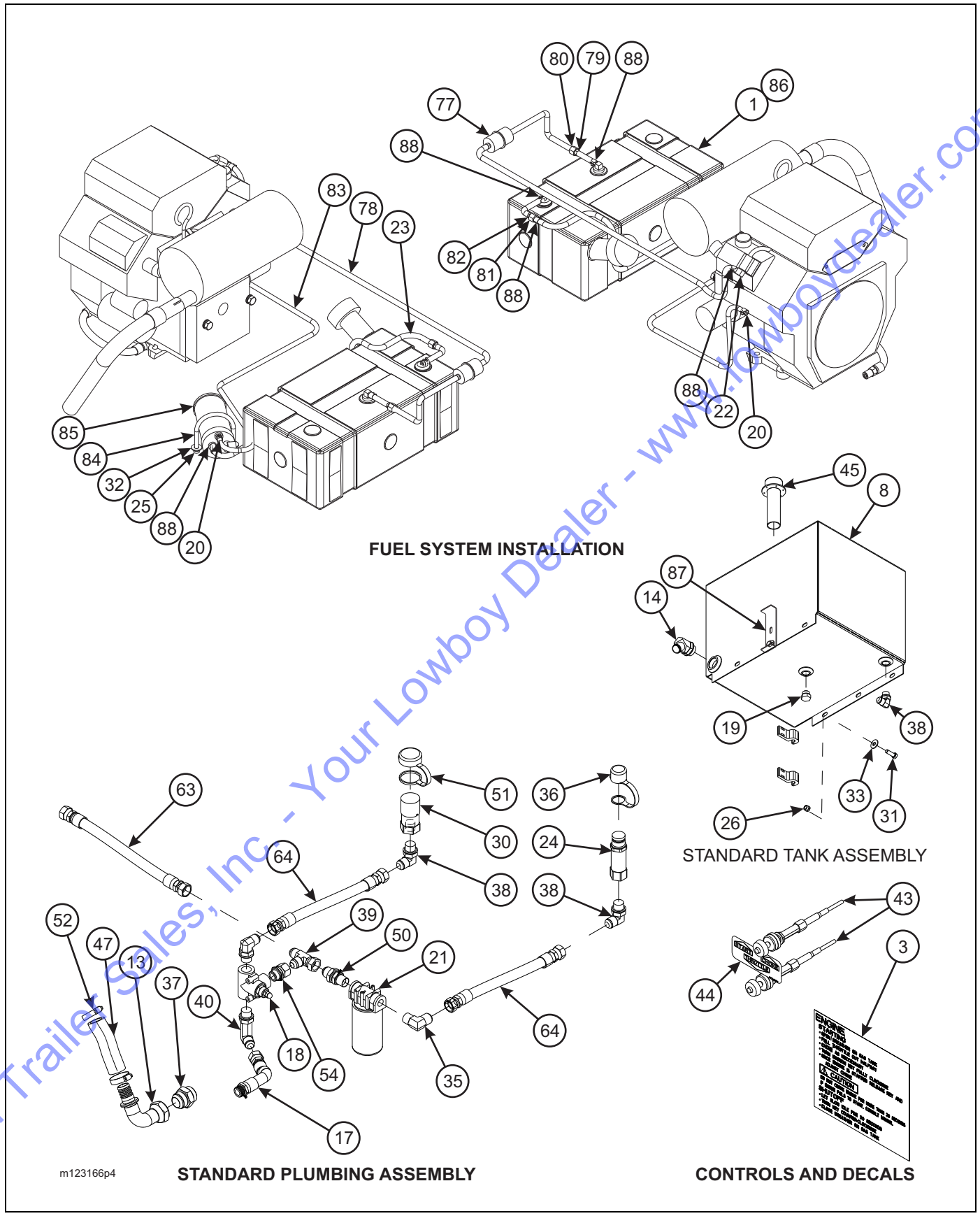
Figure 1-100: Engine - 27 HP Upper Deck Package (2 of 4)



BASE - DOOR ASSEMBLY

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Figure 1-101: Engine - 27 HP Upper Deck Package (3 of 4)



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Figure 1-102: Engine - 27 HP Upper Deck Package (4 of 4)

Engine - 27 HP Upper Deck Package

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	27HP GAS ENGINE PACKAGE	
1	169531	TANK, FUEL PLASTIC 6 GAL LOW PERM	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENGINE PACKAGE INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	1
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WELDMENT, ENGINE PACKAGE 25 HP	1
8	129264	HYDRAULIC TANK WELDMENT	1
9	127813	ENGINE, KOHLER 27 HP PUMP MOUNT	1
	3-765-010050	KOHLER IGNITION SWITCH	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING, 45	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	120661	VALVE, HYDRAULIC PRESSURE RELIEF	1
19	900598-12S	PLUG, O-RING	1
20	179090	CLAMP, 1/2 FUEL HOSE SPRING	2
21	1-295-010001	RETURN LINE FILTER	1
	1-295-010002	FILTER ELEMENT	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	5
24	105479	COUPLER FLAT FACE MALE NOSE	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	15
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	6
30	105480	COUPLER, FLAT FACE FEMALE BODY	1
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	10
32	1-861-010032-11	WASHER, FLAT 3/8W	19
33	1-861-010032-15	WASHER, FLAT 1/2W	13
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2024-12-12S	ELBOW, 90	1
36	105481	COUPLER, DUST CAP MALE	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	4
39	203102-12-12S	ADAPTER, TEE	1
40	206209-12-12S	ADAPTER, 90	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	128774	CABLE, THROTTLE	2
44	3-573-010506	DECAL, ENGINE CONTROL	1
45	3-162-010001	FILLER-BREATHER-STRAINER ASSEMBLY	1

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Engine - 27 HP Upper Deck Package

ITEM	PART NO.	DESCRIPTION	QTY.
46	3-182-010028	CLAMP, MUFFLER	1
47	3-399-010001006	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	105482	COUPLER, DUST FEMALE	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120659	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	123014	PLATE, MOTOR FRONT 25 HP	1
58	178428	SWITCH AND HARNESS KIT	1
59	108295	SCREW, HEX HEAD CAP 3/8-16 X 4 GR5	2
61	1-397-010312032	HOSE ASSEMBLY 3/8 X 32	1
62	129287	COVER WELDMENT	1
63	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
64	1-397-010304060	HOSE ASSEMBLY 3/8 X 60	2
65	1-560-010002-03	PLUG, PIPE 3/8	1
66	1-512-010004-03	NUT, HEX LOCK 10-24 GRA	8
68	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
69	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
70	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	1
72	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
73	110-0253	WASHER, FLAT 3/16	8
74	3-443-010018	LATCH, FLEXIBLE DRAW, LEVER ASSIST	2
75	3/8P COUPL	PIPE COUPLING 3/8 BLACK	1
76	128501	REPLACEMENT MUFFLER KIT	1
77	142270	FUEL FILTER	1
78	169532	HOSE, FUEL 1/4 LOW PERM CARB	5
79	170109	FITTING	1
80	173860	FITTING	2
81	170111	FITTING	1
82	173887	BRACKET, ENGINE PACKAGE	1
83	3-316-010008	FUEL HOSE 3/16 ID	5
84	110578	U-BOLT, FENDER MOUNT	1
85	166766	CARBON CANISTER, FUEL TANK	1
86	139553	COUPLER, FUEL TANK	1
87	3-181-010006	HOSE CLAMP	1
88	178638	SPRING CLAMP 1/2’ OD FUEL HOSE	8

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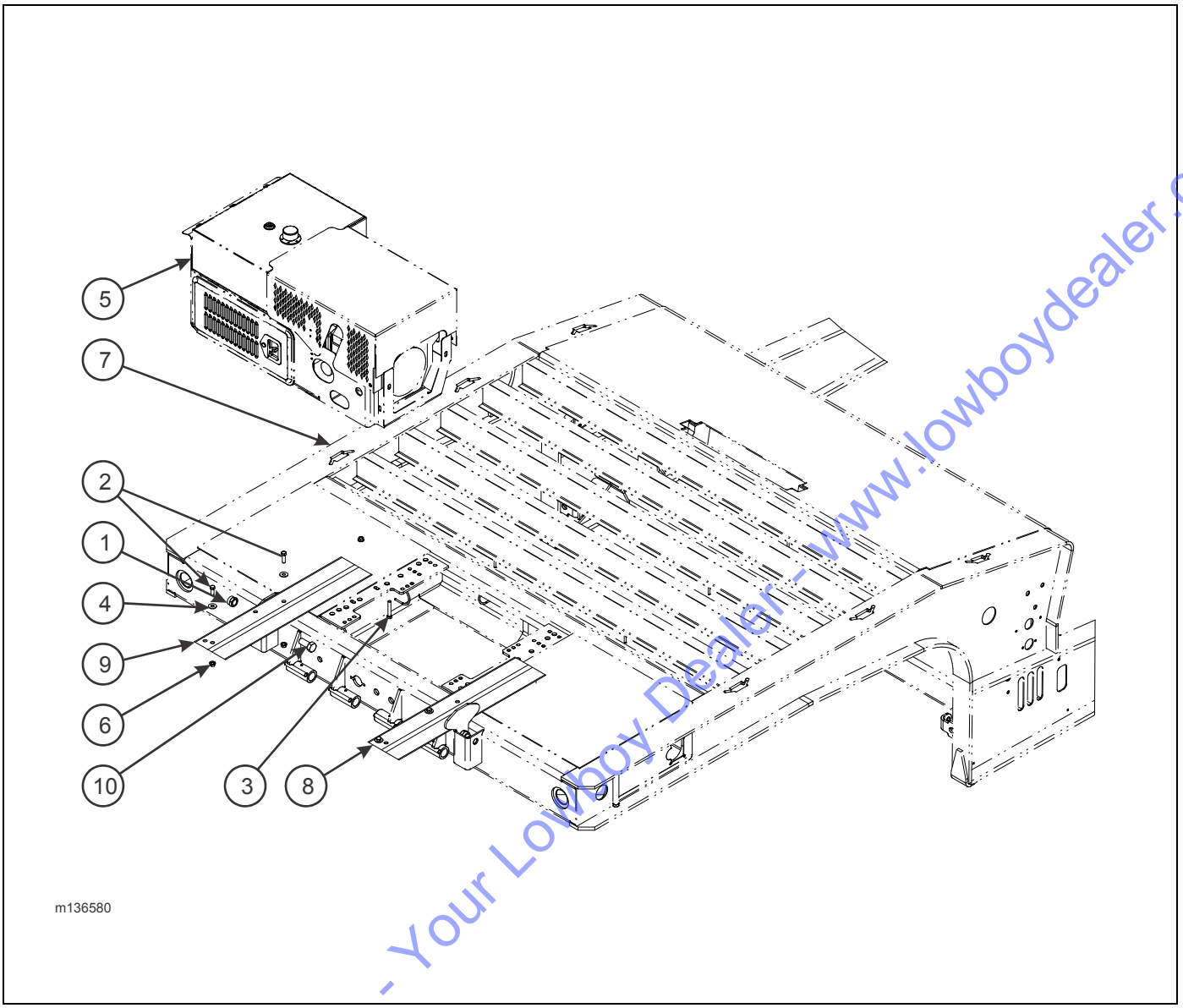


Figure 1-103: Engine - Front Mount Installation

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 27 HP U/D **(SEE PAGE 1-174)**	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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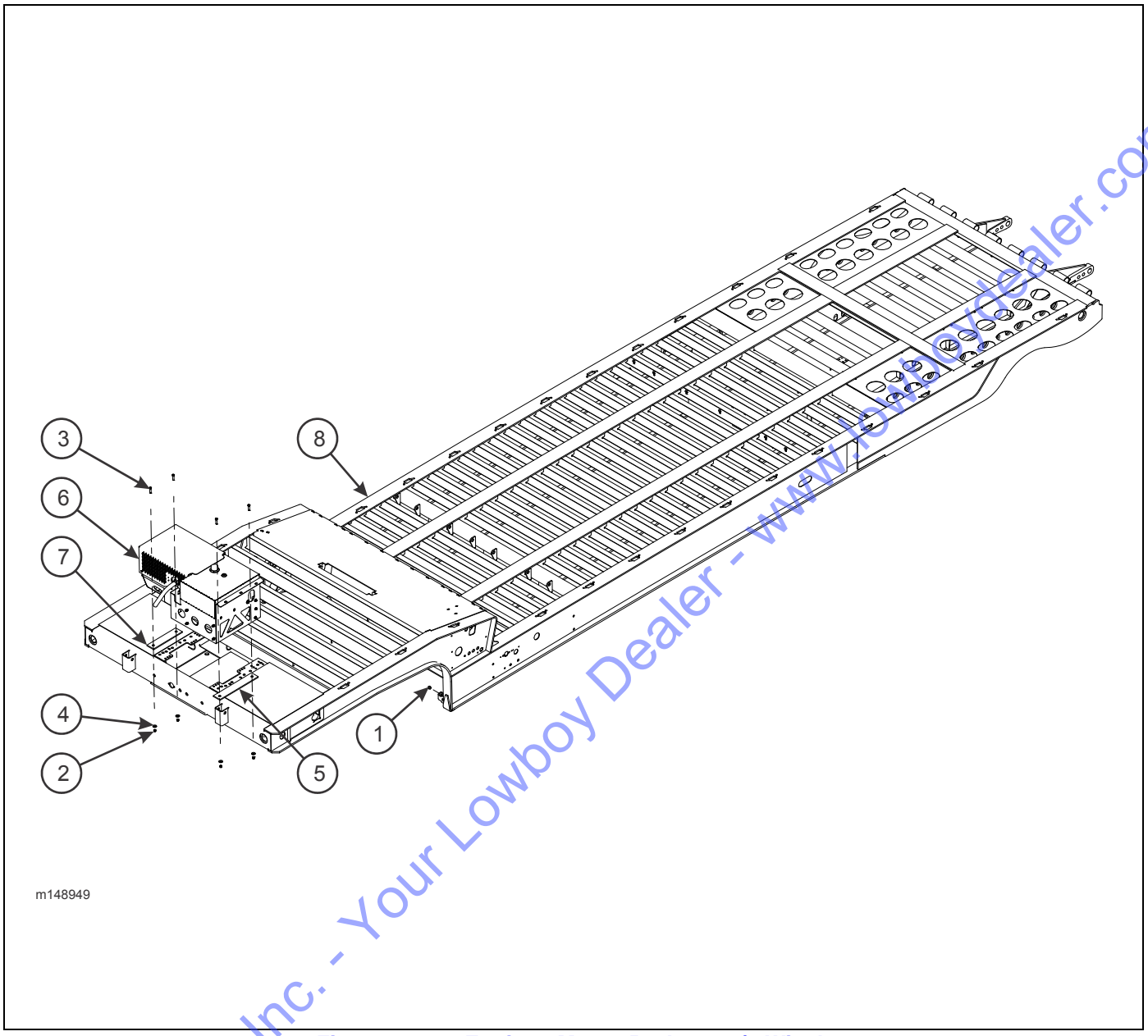


Figure 1-104: Engine - Mount Package w/o Winch

Engine - Mount Package w/o Winch

ITEM	PART NO.	DESCRIPTION	QTY.
	148949	ENGINE MOUNT PACKAGE W/O WINCH	
1	1-007-010025	PLUG, 3/4-16	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	4
5	120478	PLATE, U/D ENGINEMOUNT	1
6	123166	ENGINE PACKAGE, 27 HP E/D **(SEE PAGE 1-174)**	REF
7	124555	PLATE, U/D ENGINE MOUNT	1
8	-----	FRAME WELDMENT	REF

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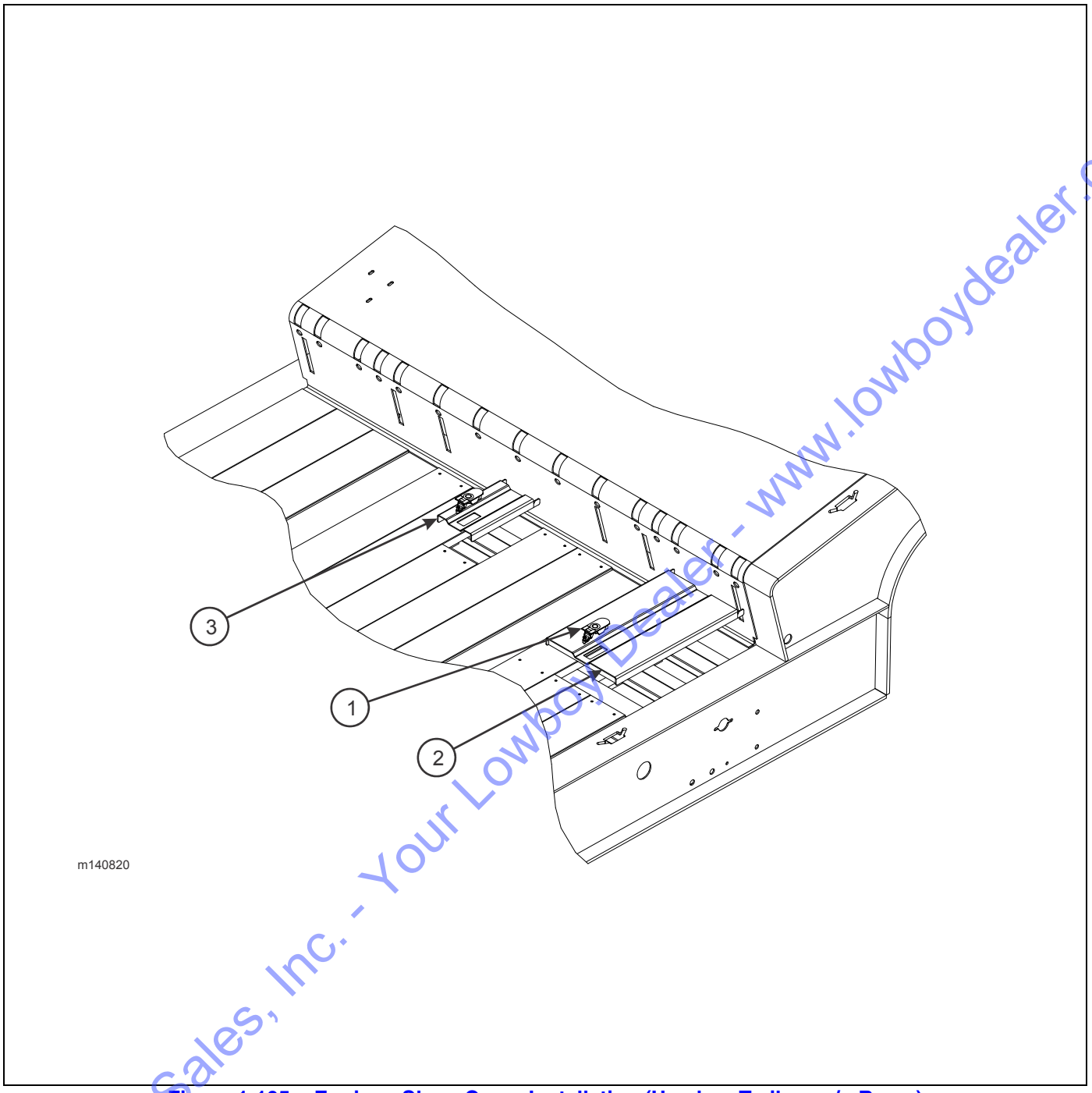


Figure 1-105: Engine - Slope Cover Installation (Used on Trailers w/o Ramp)

Engine - Slope Cover Installation “Used on Trailers w/o Ramp”

ITEM	PART NO.	DESCRIPTION	QTY.
	140820	SLOPE ENGINE COVER INSTALLATION	
1	121526	LATCH, COMPRESSION	2
2	140821	COVER WELDMENT, ENGINE	1
3	140824	COVER, HYD TANK	1

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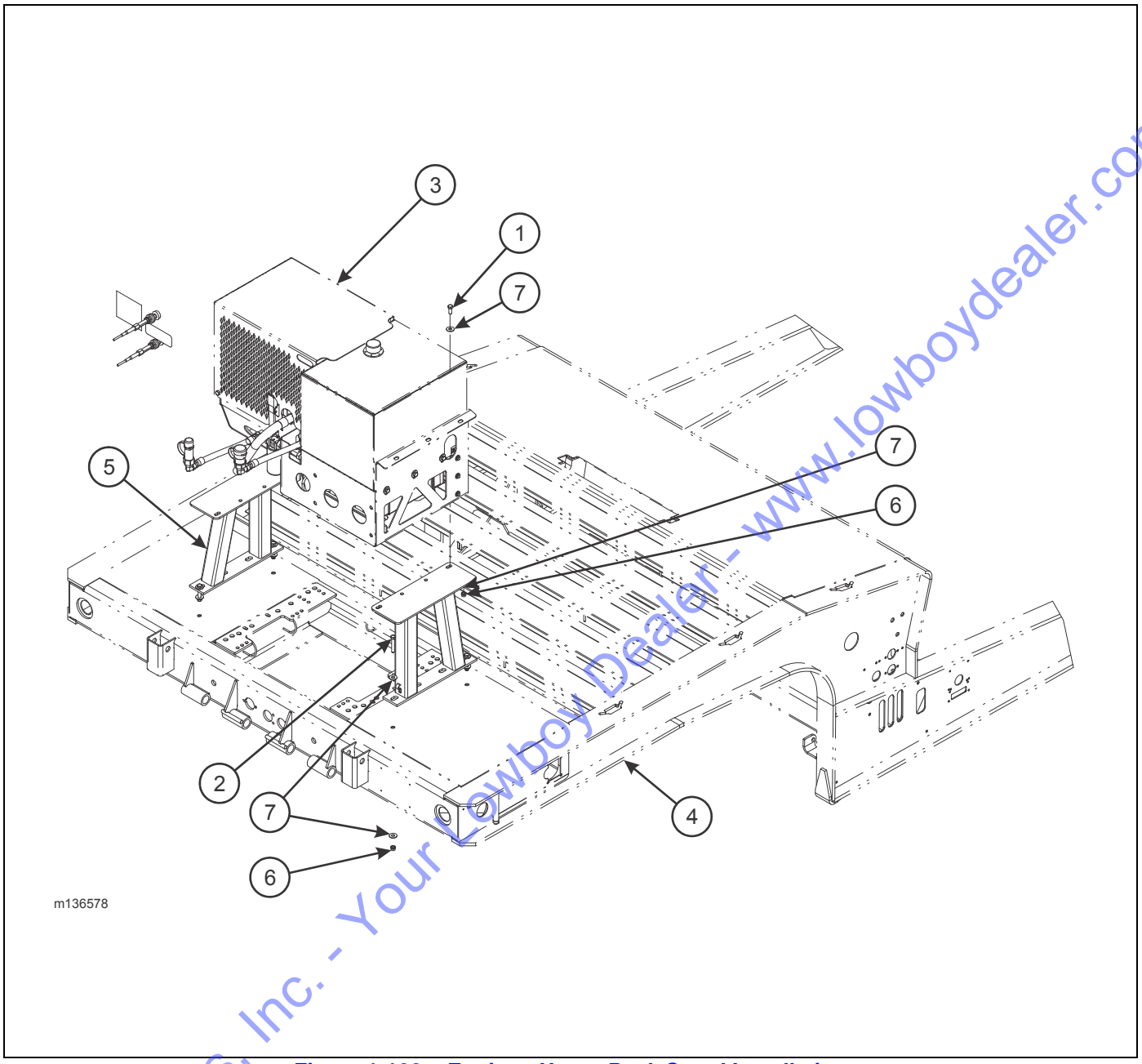


Figure 1-106: Engine - Upper Deck Stand Installation

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, 27 HP GAS **(SEE PAGE 1-174)**	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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Extension - Option

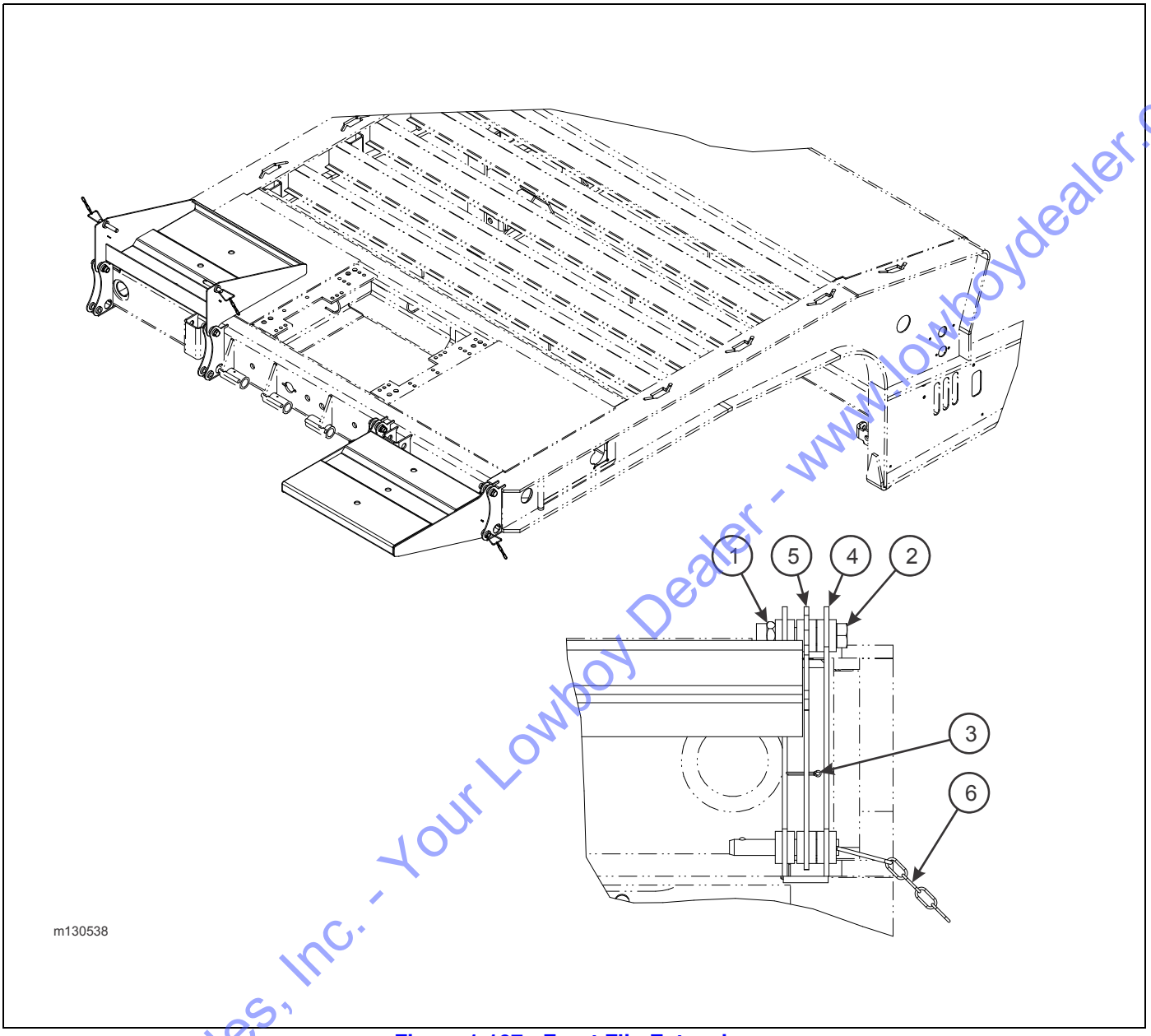


Figure 1-107: Front Flip Extension

Front Flip Extension

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

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Hydraulic Kits - Options

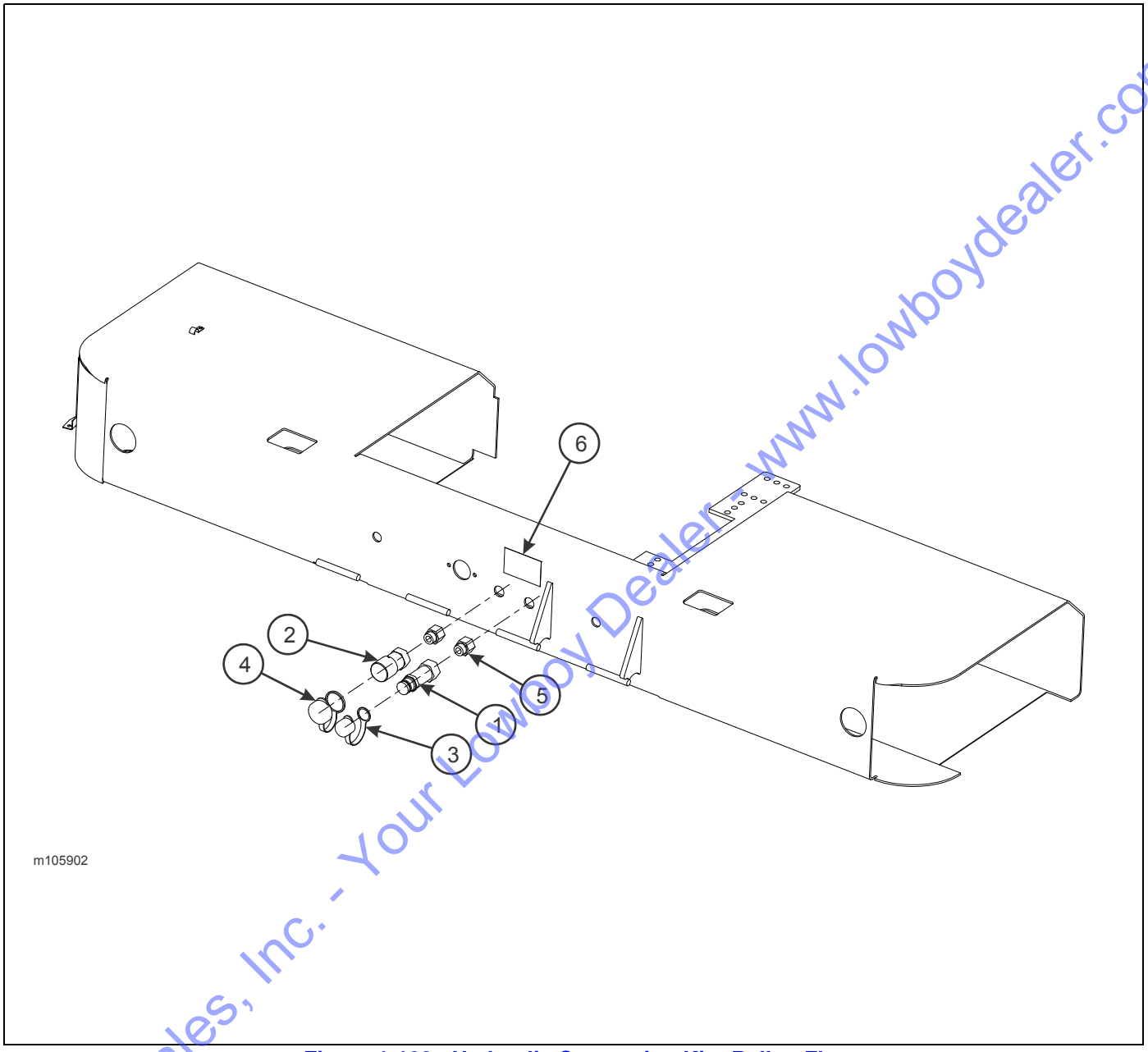
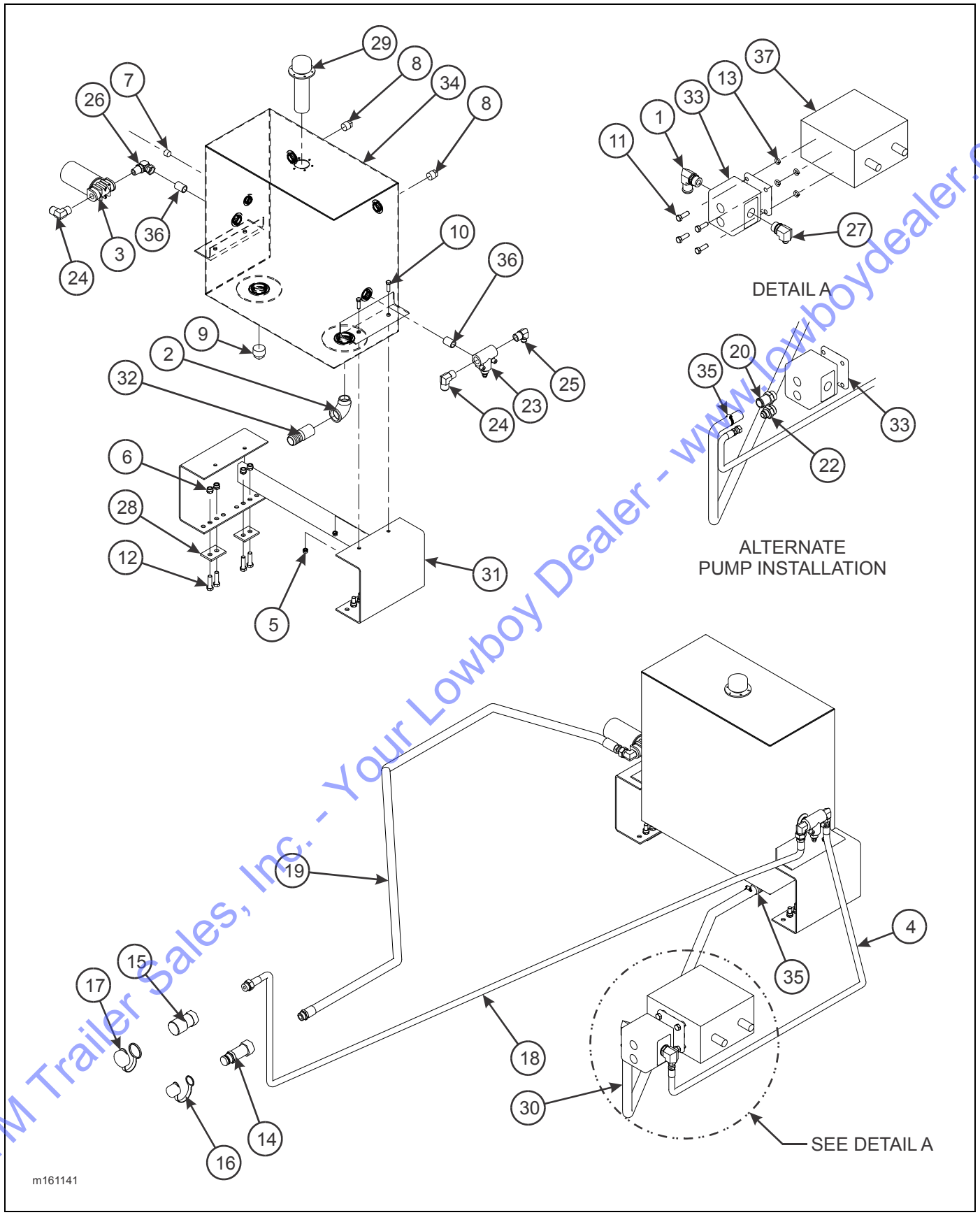


Figure 1-108: Hydraulic Conversion Kit - Ball to Flat

Hydraulic Conversion Kit - Ball to Flat

ITEM	PART NO.	DESCRIPTION	QTY.
	105902	HYDRAULIC CONVERSION KIT, BALL TO FLAT (OPTION)	
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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Figure 1-109: 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
22	12-16 070120	ADAPTER	1
23	125130	RD12D HYD BY-PASS SRDD	1
24	2024-12-12S	ADAPTER 90	2
25	2024-12-8S	ADAPTER, 90	1
26	2047-12-12S	ELBOW, 90 SWIVEL	1
27	2062-16-8S	ADAPTER, 90	1
28	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
29	3-162-010001	FILLER-BREATHER-STRAINER ASSEMBLY	1
30	3-399-010001	HOSE, 1-1/4 SUCTION	8’
31	3-482-010503	TANK MOUNT	1
32	3-561-010001	HOSE BARB 1-1/4	1
33	3-591-010001	HYDRAULIC GEAR PUMP	1
34	3-786-010043	TANK, HYDRAULIC	1
35	6828	IDEAL HOSE CLAMP	2
36	C3069X12	NIPPLE, HEX	2
37	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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Ramps - Options

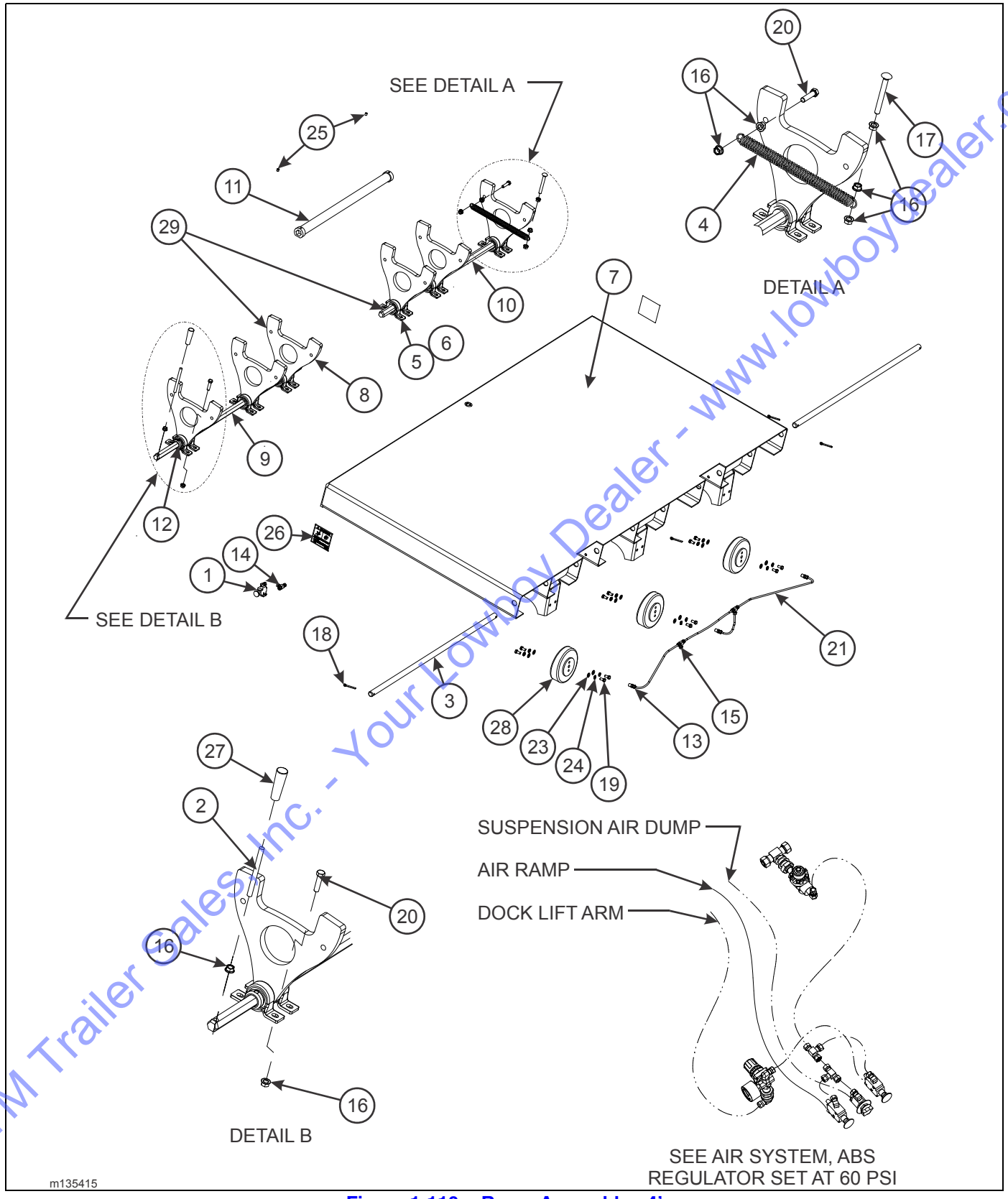


Figure 1-110: Ramp Assembly - 4'

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Ramp Assembly - 4’

ITEM	PART NO.	DESCRIPTION	QTY.
	135415	RAMP ASSEMBLY 4'	
1	107887	VALVE AIR PUSH BUTTON	1
2	108969	ROD, THREADED RAMP HDL	1
3	113532	PIN, RAMP HINGE (2 PIECE PIN)	2
4	129985	SPRING, EXTENSION	1
5	135357	BEARING, SELF ALIGN	12
6	135398	PILLOW BLOCK STAMPED	12
7	135414	RAMP WELDMENT 4'	1
8	136225	LATCH WELDMENT, RAMP	6
9	137065	SHAFT, LH HEX RAMP LATCH	1
10	137066	SHAFT, RH HEX RAMP LATCH	1
11	137069	COUPLER, SHAFT RAMP LATCH	1
12	71503635	COLLAR, RETAINING 1”	2
13	1-297-010007-05	FITTING, AIR	3
14	1-297-010008-05	FITTING, AIR 90	2
15	1-297-010010-01	FITTING, AIR UNION TEE	3
16	1-510-010001	NUT, FLANGE LOCK 3/8-16	30
17	106601	SCREW, RD HEAD SQ NECK 3/8-16 X 3-1/2	1
18	1-557-010362-63	PIN, COTTER 1/2 X 2	4
19	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	12
20	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	25
21	1-833-010001	TUBING NYLON 1/4	AR
23	1-861-010032-10	WASHER, FLAT 3/8N	12
24	1-861-010034-11	WASHER, SPLIT LOCK 3/8	12
25	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
26	2-573-010335	DECAL, DANGER PINCHING	2
27	3-360-010072	HANDLE PLASTIC	1
28	3-720-010042	SPRING AIR 6-1/2	3
29	141606	RAMP BRACKET ASSEMBLY **(ITEMS 5-6, 8-10, & 12)**	1

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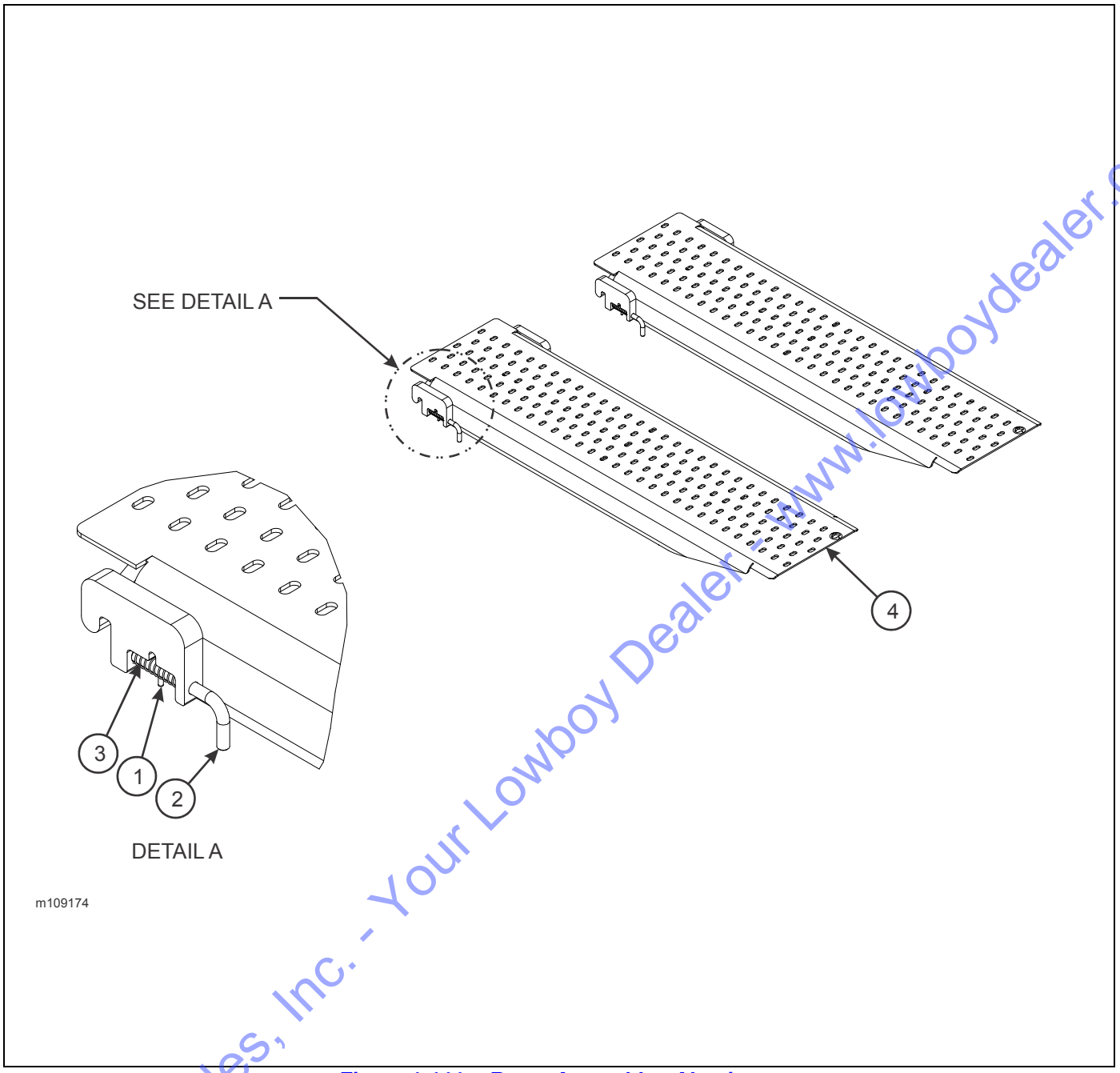


Figure 1-111: Ramp Assembly - Aluminum

Ramp Assembly - Aluminum

ITEM	PART NO.	DESCRIPTION	QTY.
	108962	RAMP ASSEMBLY, ALUMINUM	
	109174	RAMP ASSEMBLY, STEEL	
1	1-647-010004177	ROLL PIN SLOTTED, 3/16 X 1-1/2	4
2	104252	PIN, P/O EXT LOCK	4
3	104253	SPRING, COMPRESSION P/O EXT LOCK	4
4	108737	RAMP WELDMENT, ALUMINUM FRONT REMOVABLE	2
5	109173	RAMP WELDMENT, STEEL FRONT REMOVABLE	2

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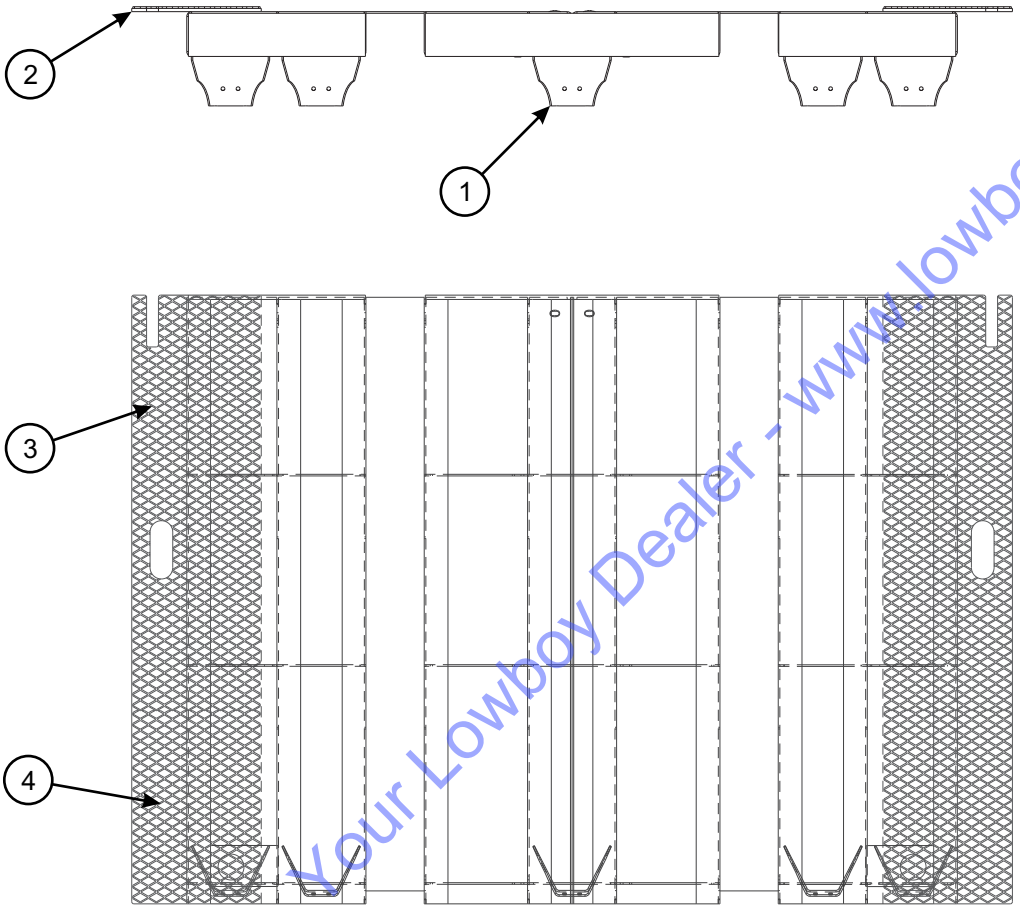


Figure 1-112: Ramp Modification Weldment - 6'

Ramp Modification Weldment - 6'

ITEM	PART NO.	DESCRIPTION	QTY.
	181546	RAMP MODIFICATION WELDMENT - 6 FEET	
1	139464	RAMP, WELMENT, 6FT, 930B D/D	1
2	181547	PLATE, WIDTH, EXT 6' RAMP	2
3	181548	EXP MTL, WIDTH, EXT 6' RAMP	2
4	182459	EXP MTL, 22-1/4 X 14-3/4	2

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Electrical Outlet - Options

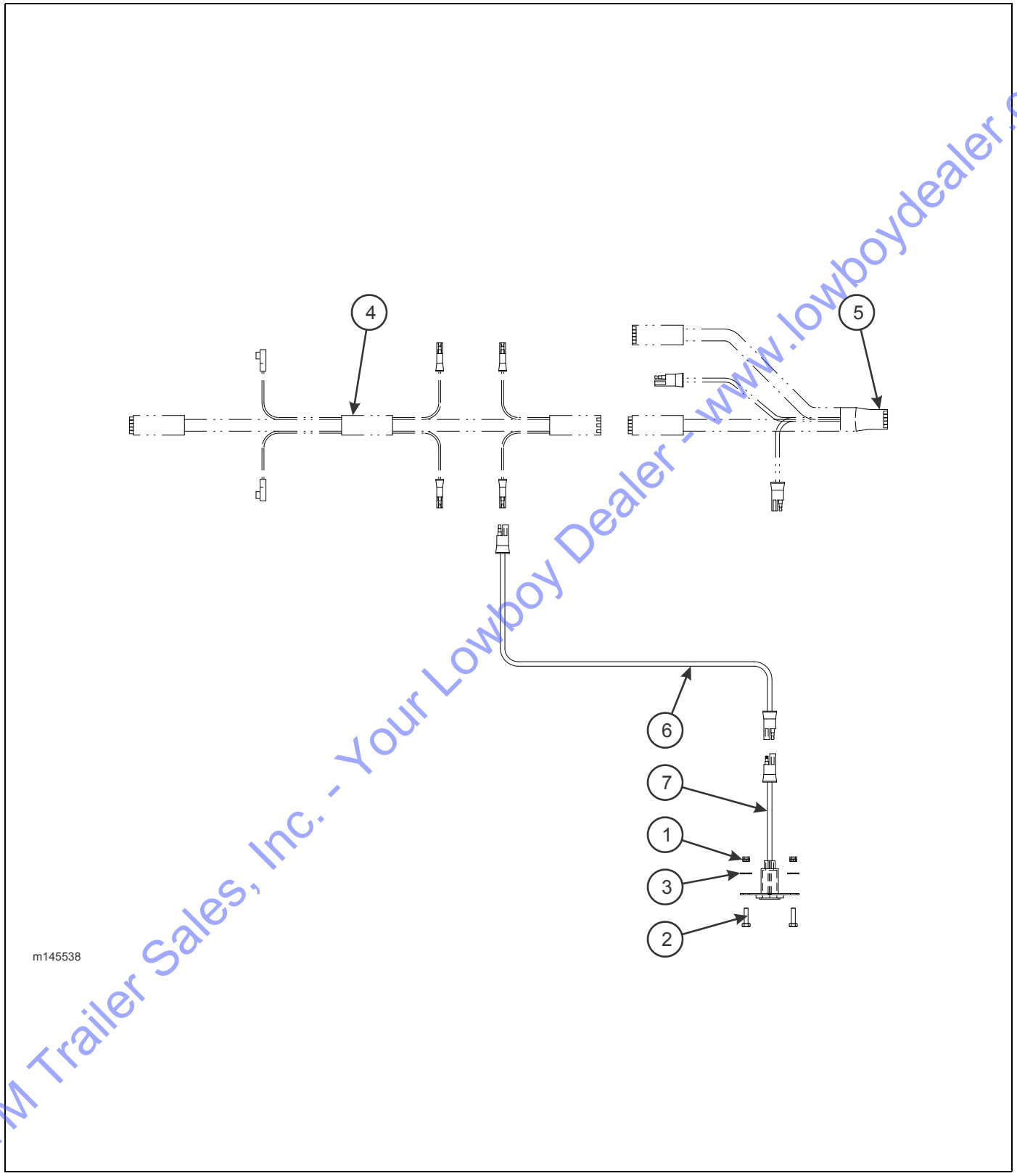


Figure 1-113: Rear Side Electrical Outlet Installation

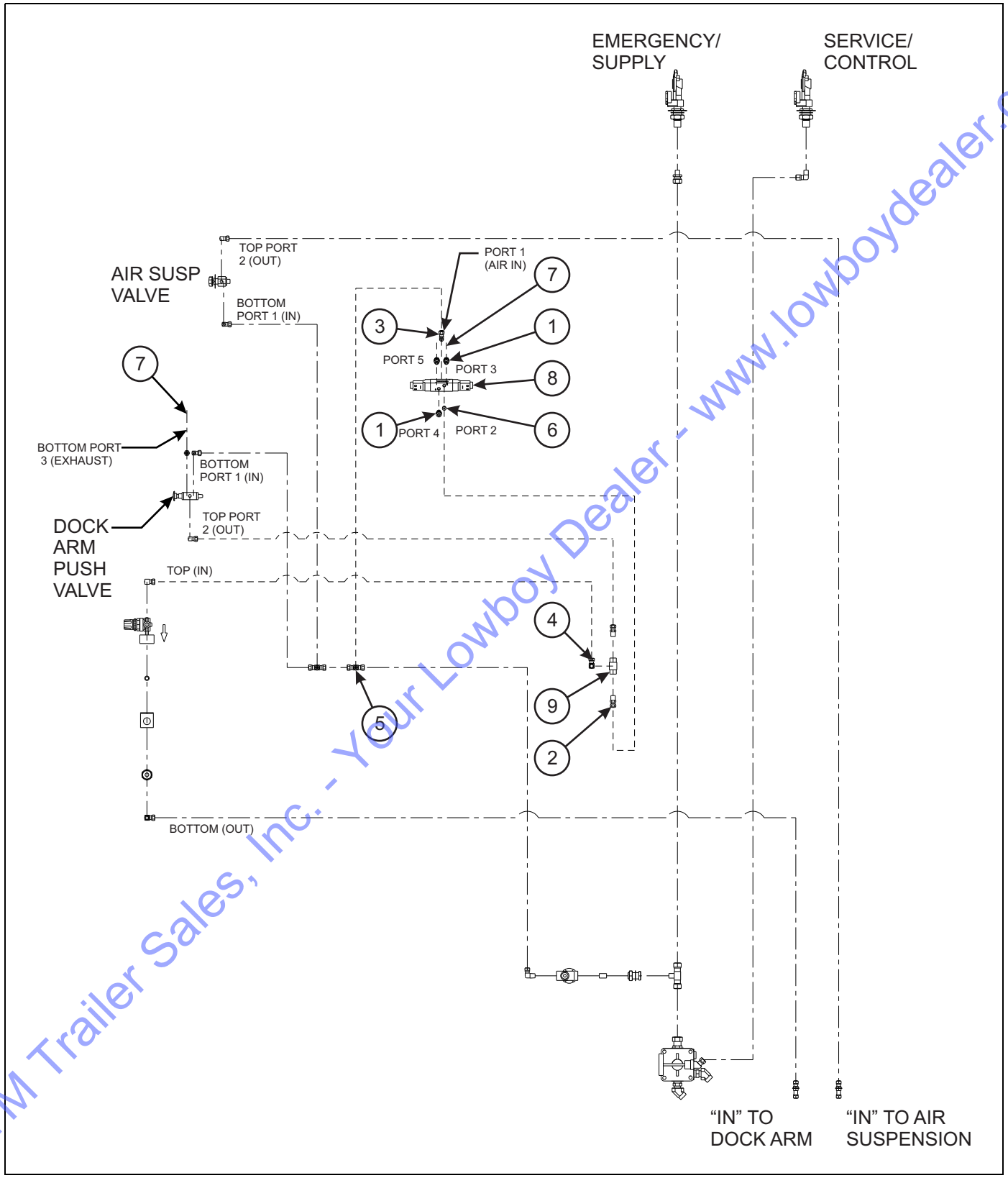
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Rear Side Electrical Outlet Installation

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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Remote Controls - Options



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Figure 1-114: Remote Control - Dock Lift Air Items

Remote Control - Dock Lift Air Items

ITEM	PART NO.	DESCRIPTION	QTY.
	144615	REMOTE CONTROL - WN/U/L	
1	1-297-010007-04	FITTING, AIR	3
2	1-297-010007-05	FITTING, AIR	2
3	1-297-010008-05	FITTING, AIR 90	1
4	1-297-010008-07	FITTING, AIR 90	1
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-560-010002-01	PLUG, PIPE 1/8	1
7	1-833-010001	TUBING, NYLON 1/4	AR
8	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	REF
9	3-843-010039-02	VALVE, AIR SHUTTLE	REF

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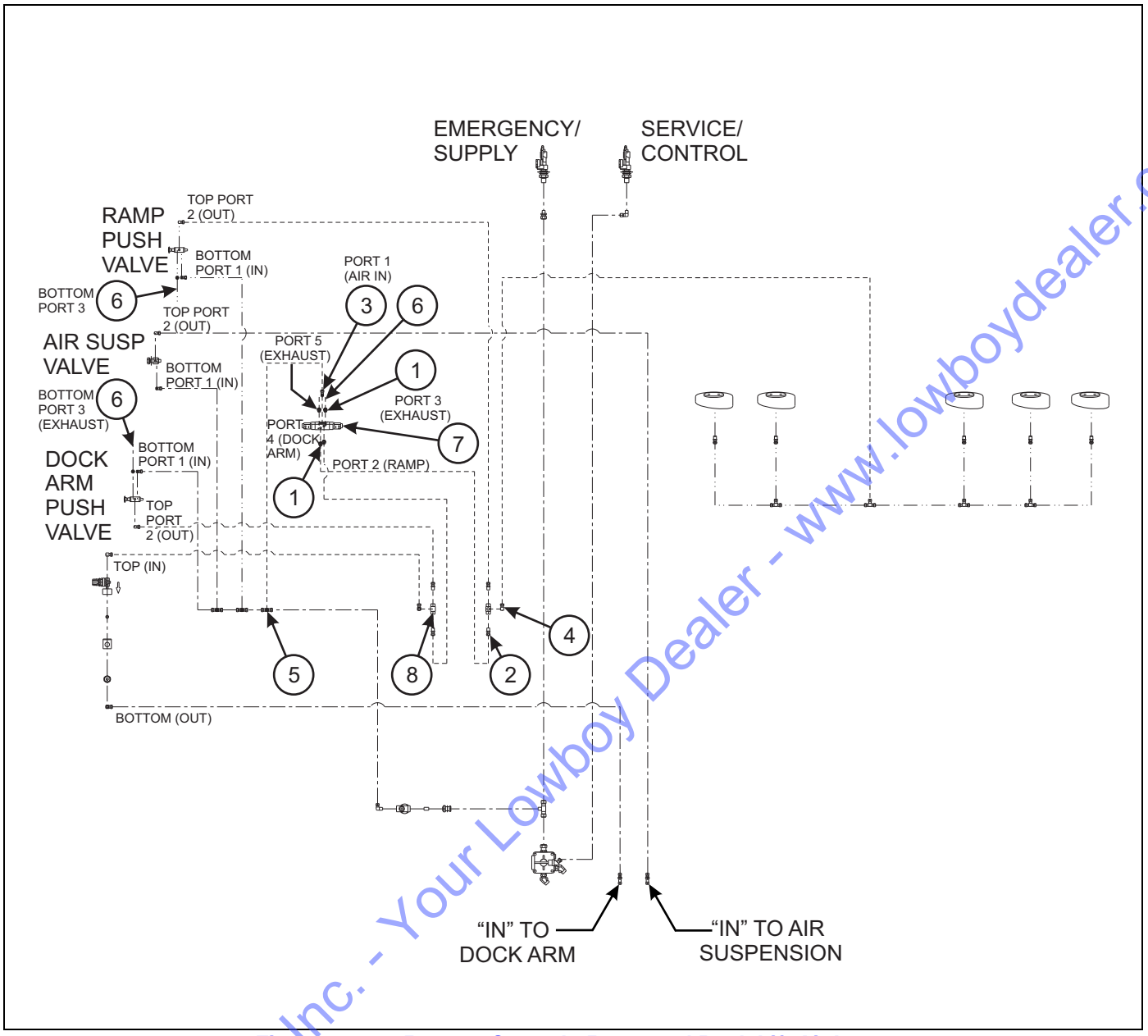


Figure 1-115: Remote Control - Ramp and Dock Lift Air Items

Remote Control - Ramp and Dock Lift Air Items

ITEM	PART NO.	DESCRIPTION	QTY.
	140910	REMOTE CONTROL - WN/U/L/R	
1	1-297-010007-04	FITTING, AIR	4
2	1-297-010007-05	FITTING, AIR	4
3	1-297-010008-05	FITTING, AIR 90	1
4	1-297-010008-07	FITTING, AIR 90	2
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-833-010001	TUBING, NYLON 1/4	AR
7	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	REF
8	3-843-010039-02	VALVE, AIR SHUTTLE	REF

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Bumper & Shield - Options

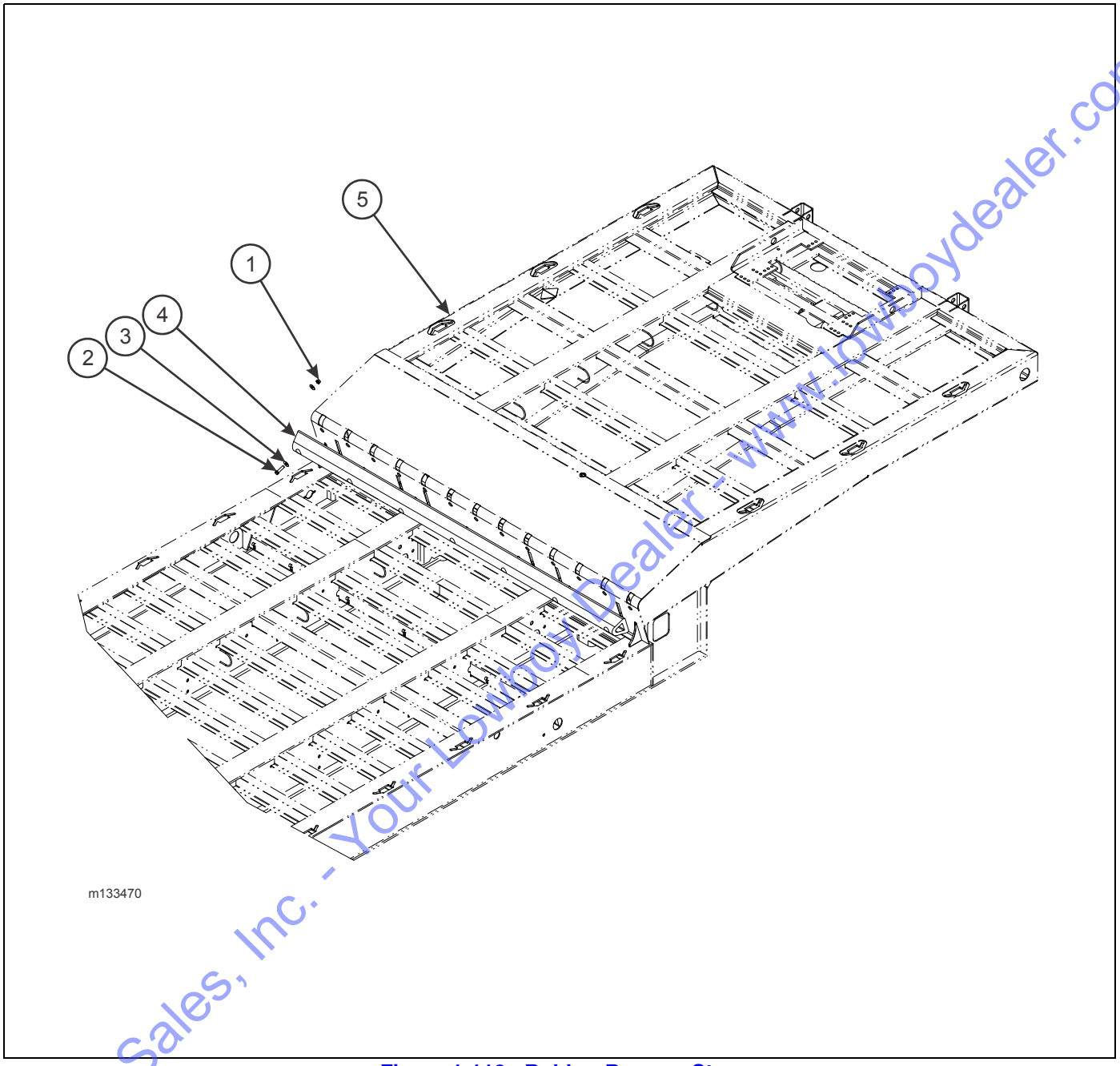


Figure 1-116: Rubber Bumper Stop

Rubber Bumper Stop

ITEM	PART NO.	DESCRIPTION	QTY.
	133470	RUBBER BUMPER STOP	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	7
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	7
3	1-861-010032-15	WASHER, FLAT 1/2W	14
4	106611	BUMPER, REAR TRAILER	1
5	-----	FRAME WELDMENT	REF

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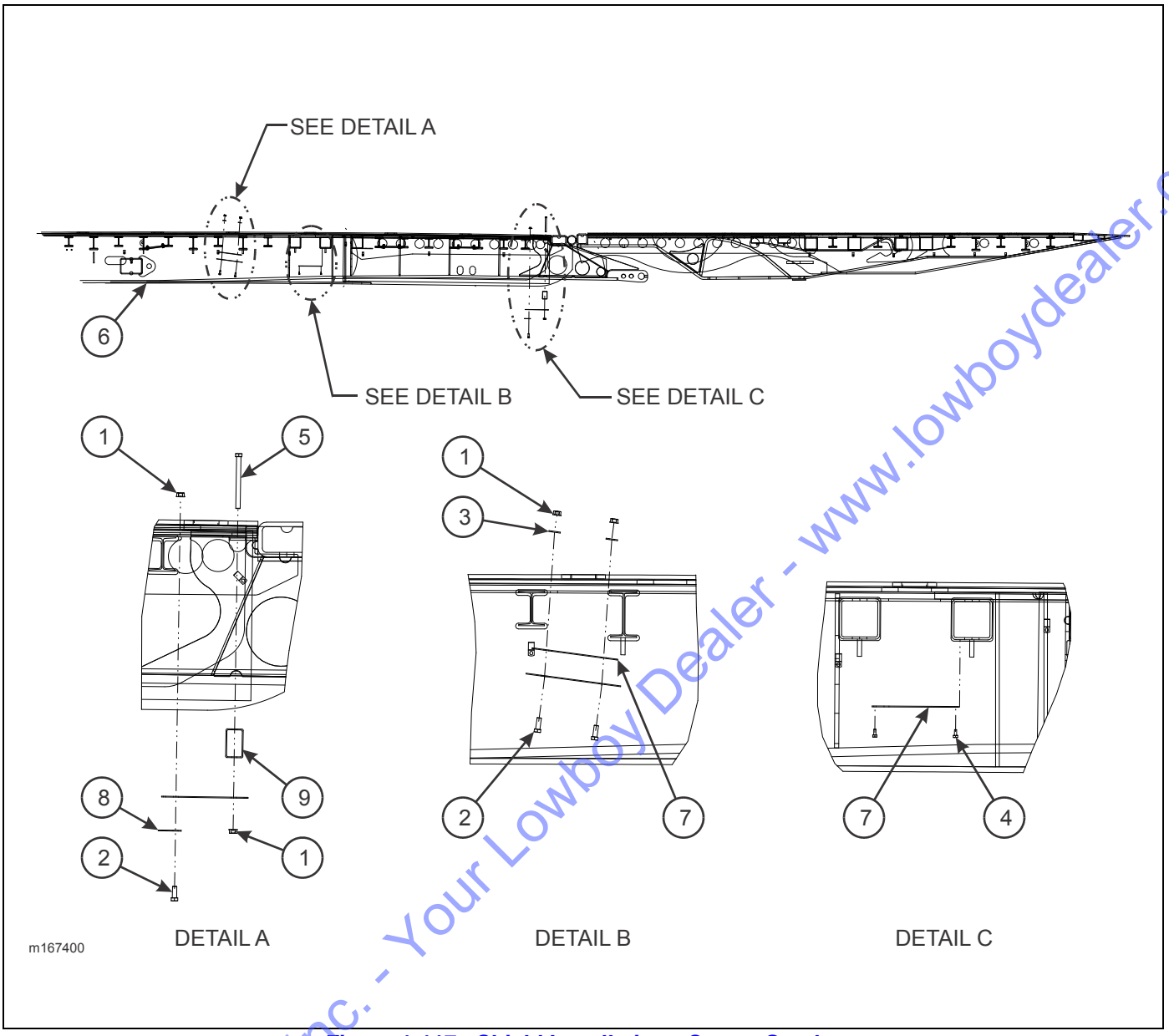


Figure 1-117: Shield Installation - Center Gotcha

Shield Installation - Center Gotcha

ITEM	PART NO.	DESCRIPTION	QTY.
	167400	SHIELD INSTALLATION, CENTER GOTCHA	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	12
2	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	10
3	1-861-010032-11	WASHER, FLAT 3/8W	8
4	118-7429	SCREW, SELF-TAP HEX HEAD #10-32 X 1/2	6
5	129698	SCREW, HEX HEAD CAP 3/8-16 X 4-1/2 GR5	2
6	-----	CENTER GOTCHA FRAME WELDMENT	1
7	167399	CENTER GOTCHA SHIELD	6
8	167401	HOLD-DOWN SHIELD	5
9	167402	SPACER, SHIELD	1

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Spare Tire - Options

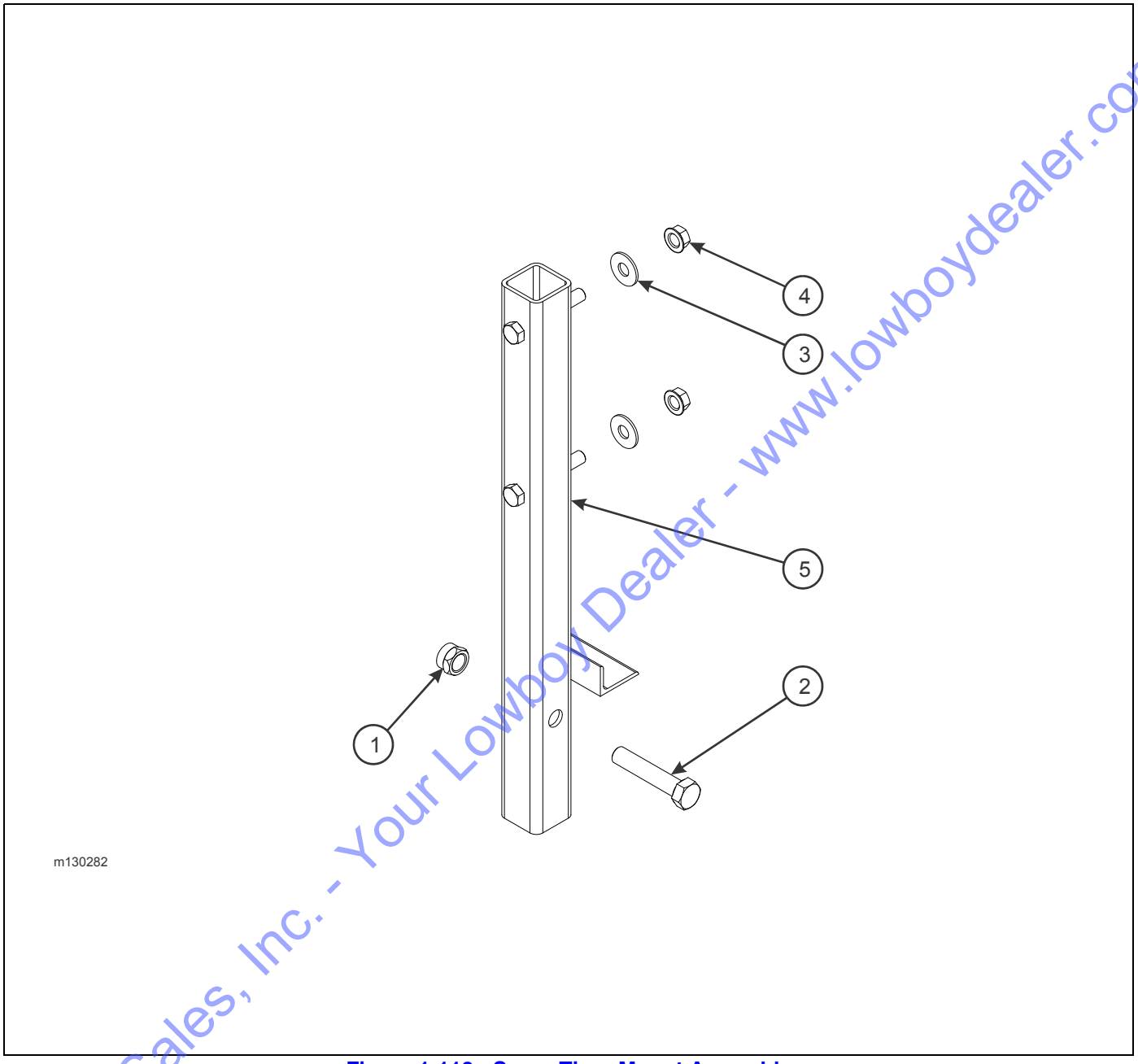


Figure 1-118: Spare Tire - Mount Assembly

Spare Tire - Mount Assembly

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

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Steps - Options

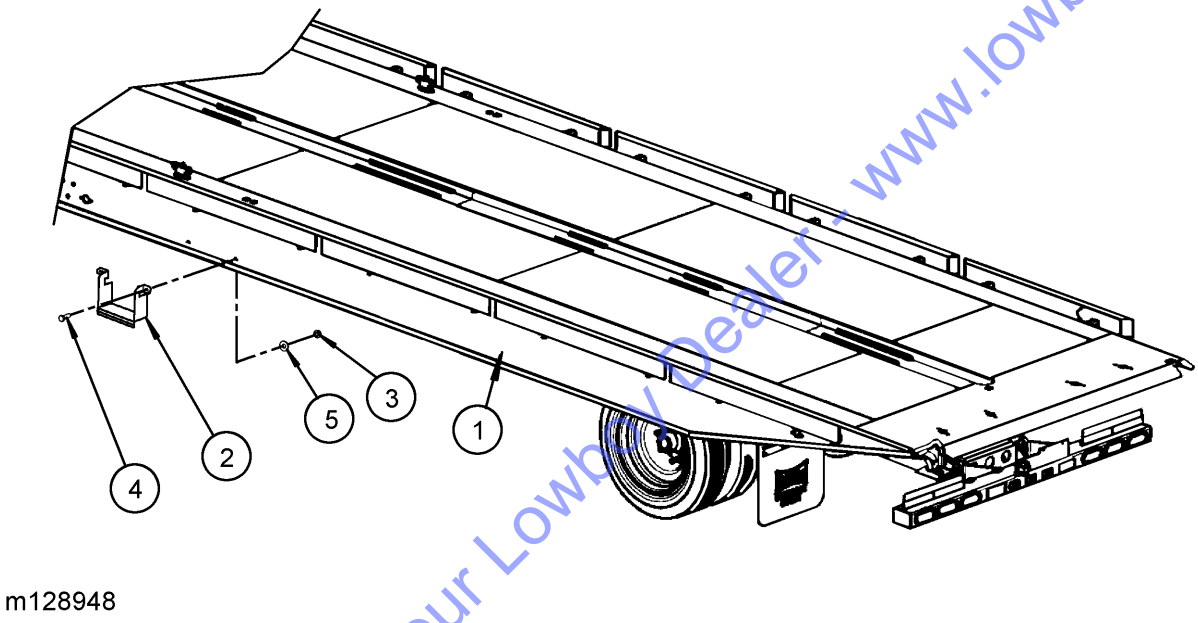


Figure 1-119: Step Assembly

Step Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	128948	STEP ASSEMBLY	
1	-----	FRAME WELDMENT	REF
2	128812	STEP, MID	1
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	2
5	1-861-010032-15	WASHER, FLAT 1/2W	2

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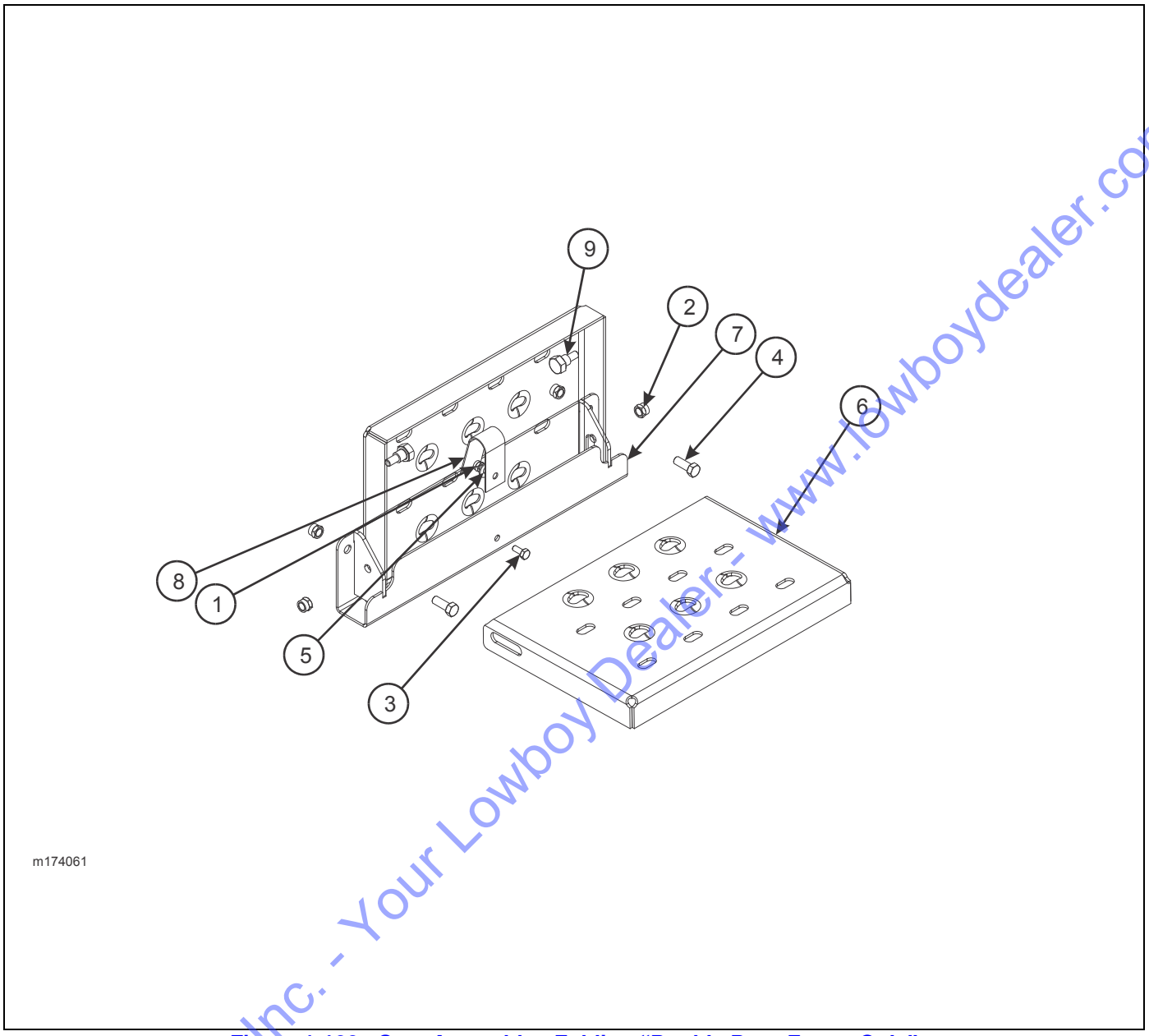


Figure 1-120: Step Assembly - Folding “Double Drop Frame Only”

Step Assembly - Folding “Double Drop Frame Only”

ITEM	PART NO.	DESCRIPTION	QTY.
	174061	FOLDING STEP ASSEMBLY	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	1
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
3	1-654-010047-03	SCREW, HEX HEAD CAP 1/4-20 X 5/8 GR5	1
4	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
5	1-861-010032-07	WASHER, FLAT 1/4W	1
6	174058	STEP, FOLD UP	1
7	174091	ANCHOR WELDMENT, FOLDING STEP	1
8	174092	SPRING, STAY FOLDING STEP	1
9	2-095-010017	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2

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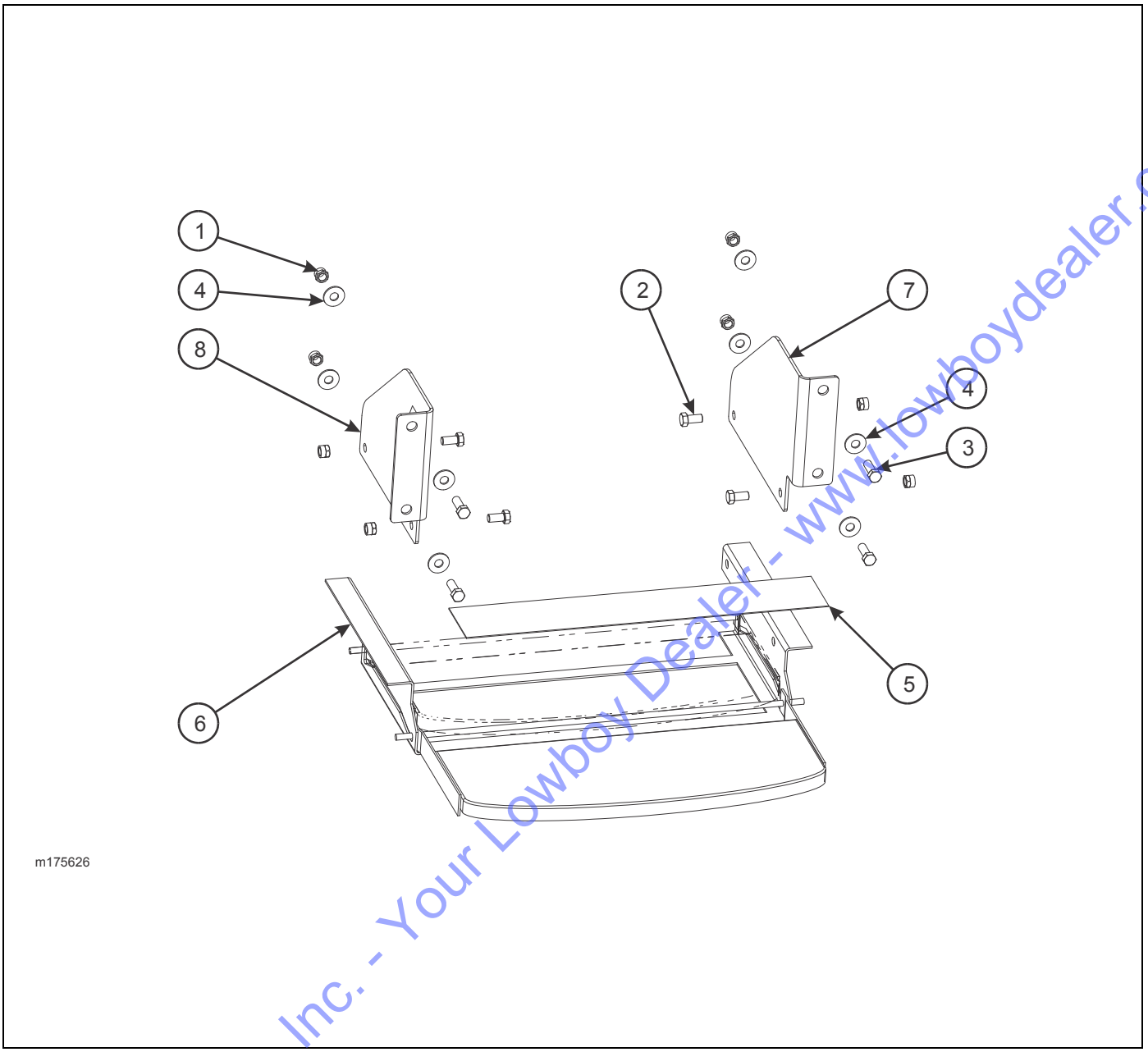


Figure 1-121: Step Installation - Pullout Installation

Step Assembly - Pullout Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	175626	PULLOUT STEP INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	4
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	106544	ANTI-SLIP TAPE, BLACK	AR
6	175627	PULLOUT STEP, MOD	1
7	175628	BRACKET WELDMENT, STEP	1
8	175629	BRACKET WELDMENT, STEP LH	1

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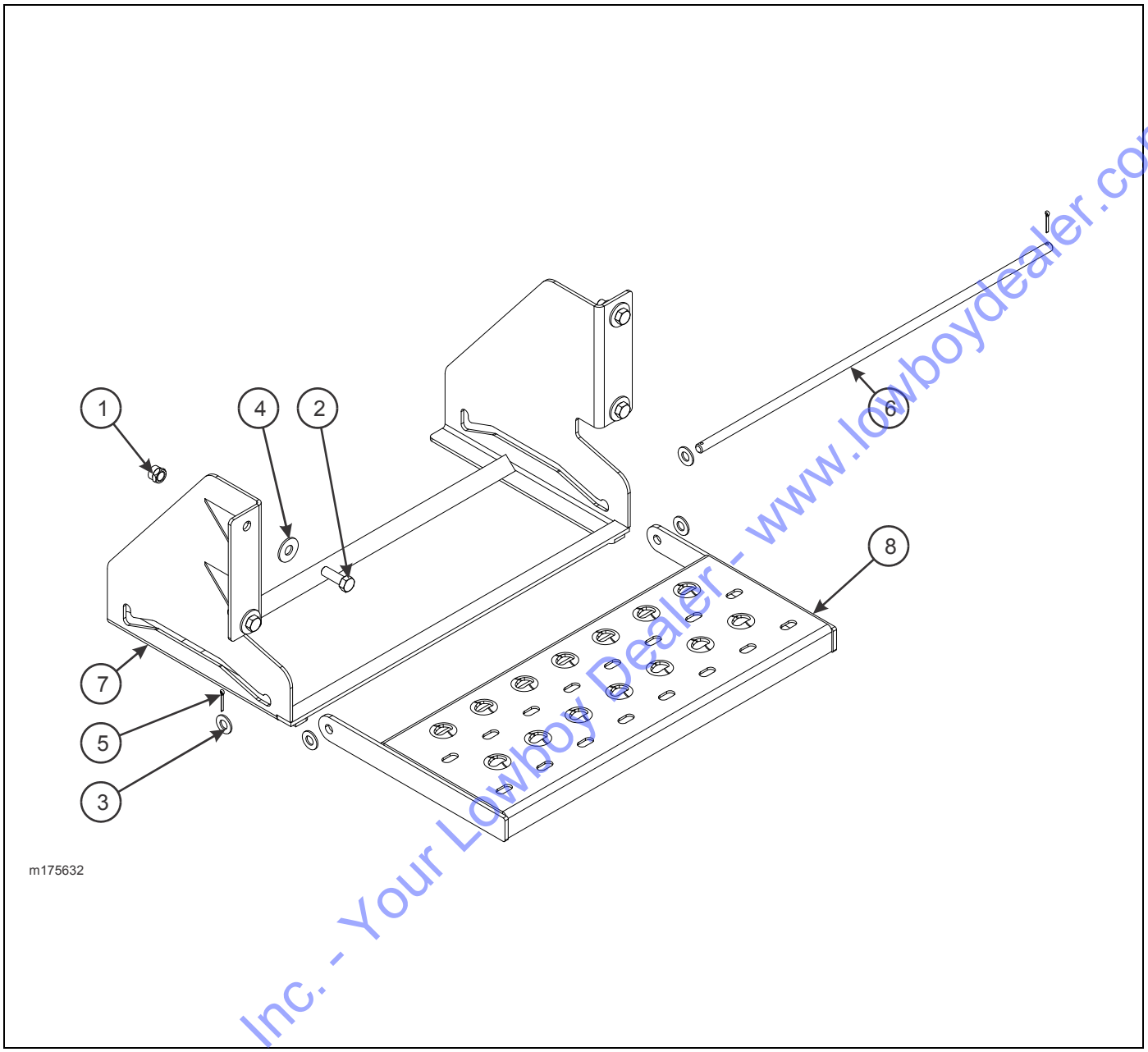


Figure 1-122: Step Assembly - Retractable

Step Assembly - Retractable

ITEM	PART NO.	DESCRIPTION	QTY.
	175632	RETRACTABLE STEP ASSEMBLY	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-861-010032-14	WASHER, FLAT 1/2	4
4	1-861-010032-15	WASHER, FLAT 1/2W	4
5	101386	PIN, COTTER 1/8 X 1	2
6	175625	PIN, SLIDING RETRACTABLE STEP	1
7	175633	STEP MOUNT, RETRACTABLE	1
8	175638	STEP WELDMENT, RETRACTABLE	1

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Tie Down - Options

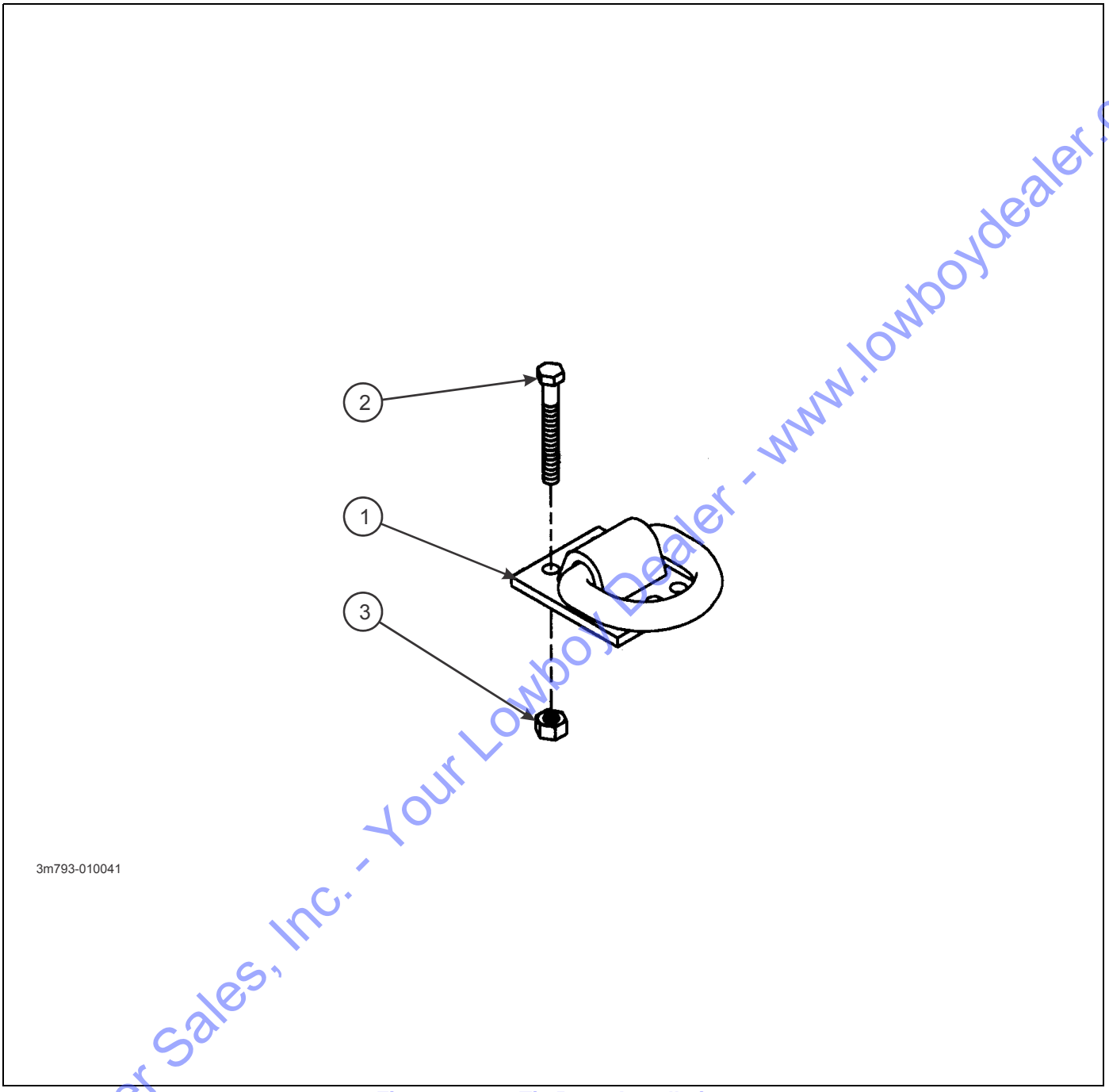


Figure 1-123: Tie Down Installation

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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Toolboxes - Options

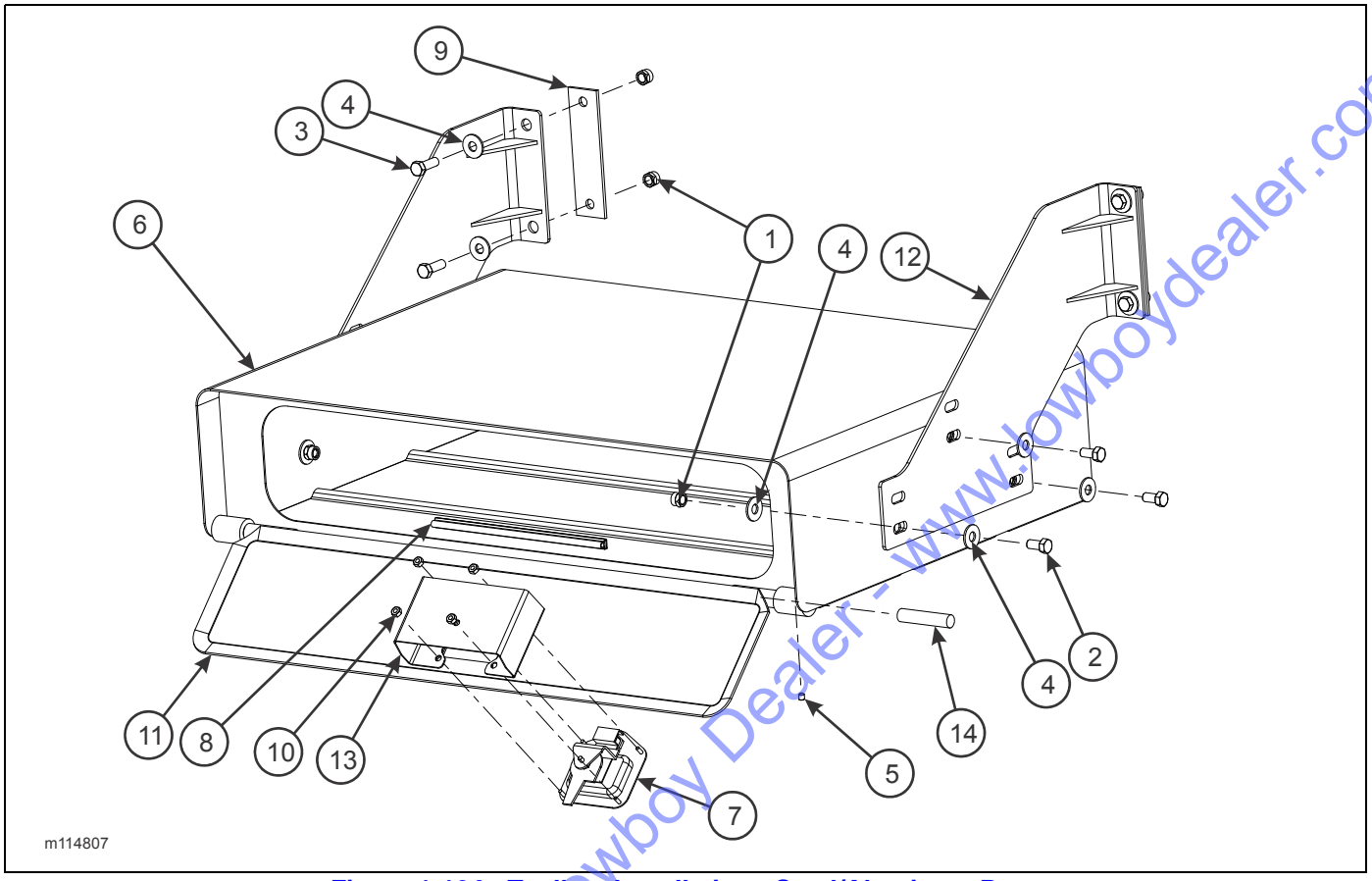


Figure 1-124: Toolbox Installation - Steel/Aluminum Door

Toolbox Installation - Steel/Aluminum Door

ITEM	PART NO.	DESCRIPTION	QTY.
	114807	TOOLBOX INSTALLATION STEEL DOOR	
	116628	TOOLBOX INSTALLATION ALUMINUM DOOR	1
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5 (114807)	6
	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (116628)	6
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
4	1-8610010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	114808	TOOLBOX WELDMENT	1
7	114814	LATCH FOLDING T LOCKABLE	1
8	114815	SEAL, SPONGE RUBBER TRIM	7
9	115843	BAR, BACKUP TOOLBOX MOUNTING	2
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX (114807)	1
	116624	DOOR WELDMENT ALUMINUM TOOLBOX (116628)	1
12	117860	BRACKET, WELDMENT TOOLBOX MOUNTING	2
13	153420	TOOLBOX LATCH SHIELD	1
14	RPRB59004X3H	BAR, ROUND 3/4 X 3-1/2 NYLATRON	2

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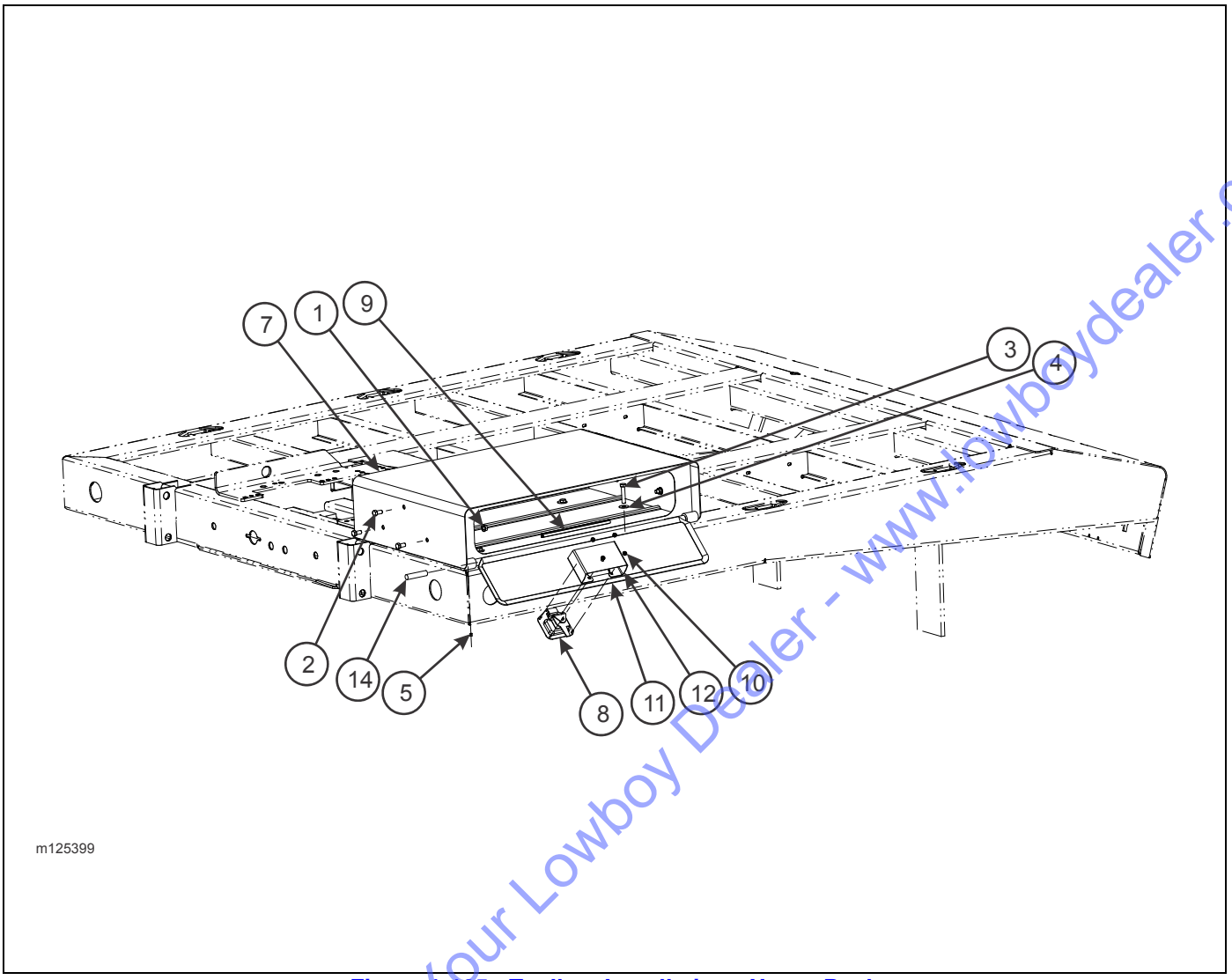


Figure 1-125: Toolbox Installation - Upper Deck

Toolbox Installation - Upper Deck

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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Traction Bar - Options

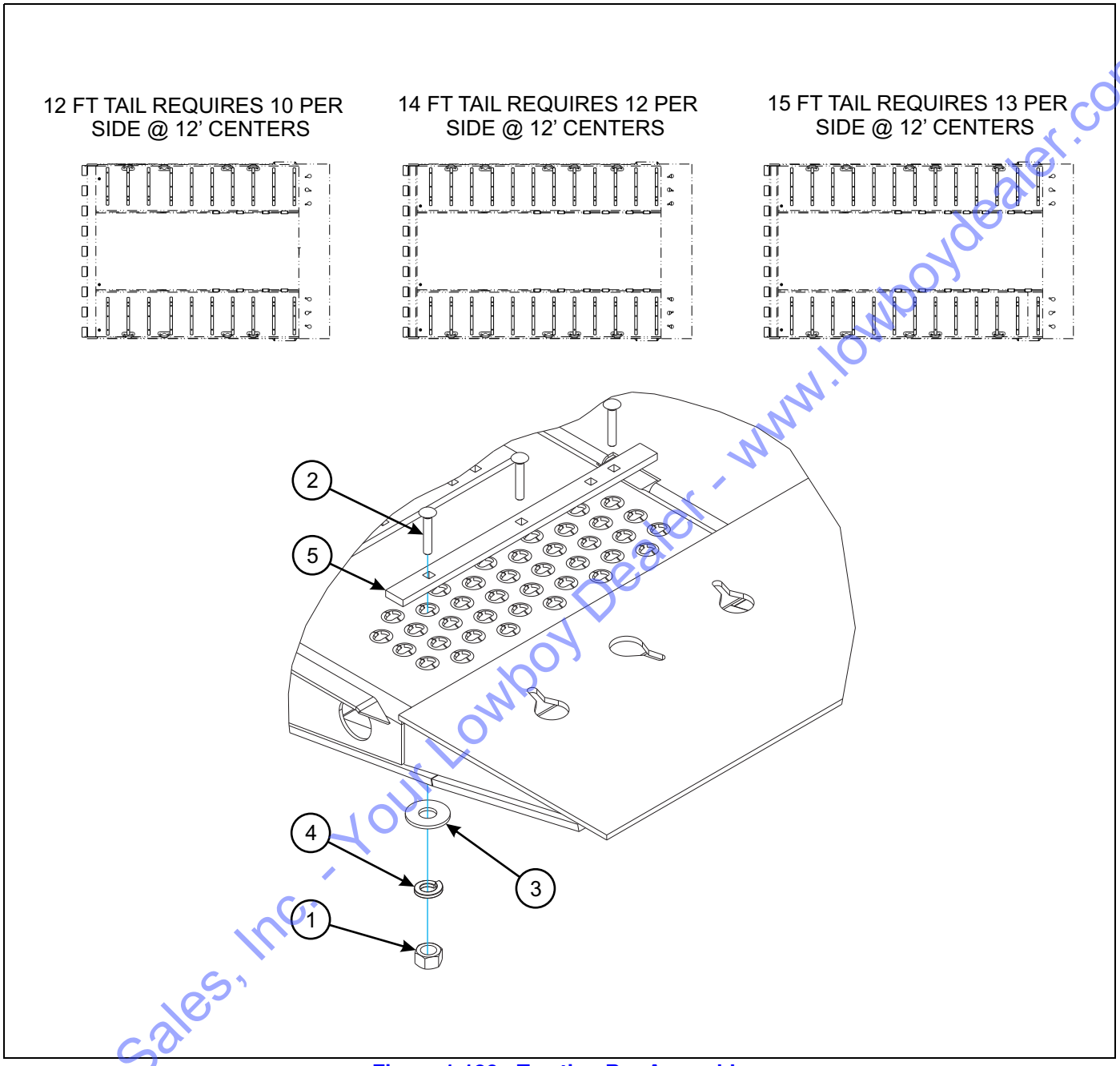


Figure 1-126: Traction Bar Assembly

Traction Bar Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	109221	TRACTION BAR ASSEMBLY	
1	1-512-010007-09	NUT, HEX 1/2-13 GR2	3
2	1-654-010070-09	SCREW, RD HEAD SQ NECK 1/2-13 X 3	3
3	1-861-010032-15	WASHER, FLAT 1/2	3
4	1-861-010034-13	WASHER, SPLIT LOCK 1/2	3
5	109211	BAR, TRACTION	1

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Upper Deck - Options

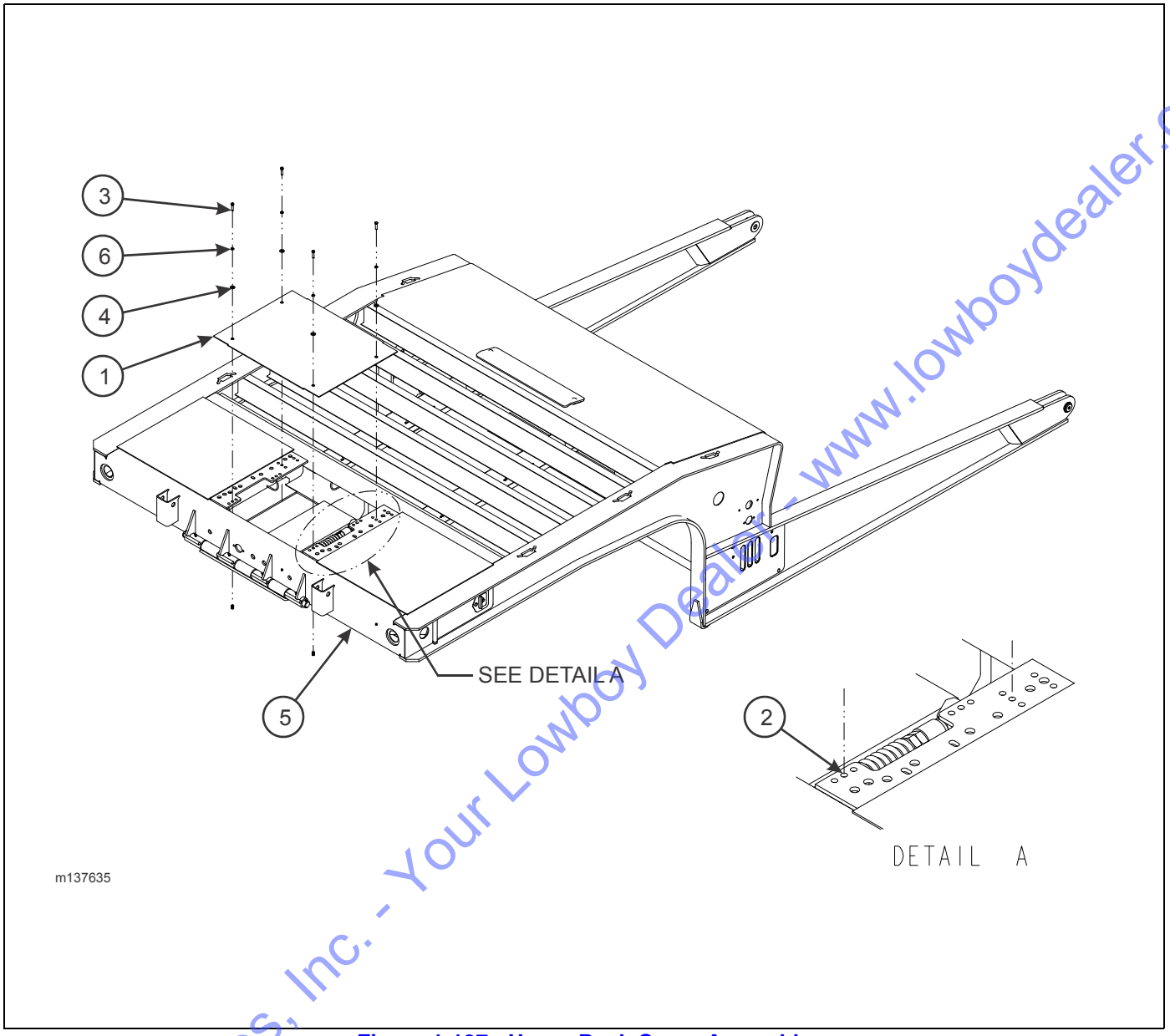


Figure 1-127: Upper Deck Cover Assembly

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

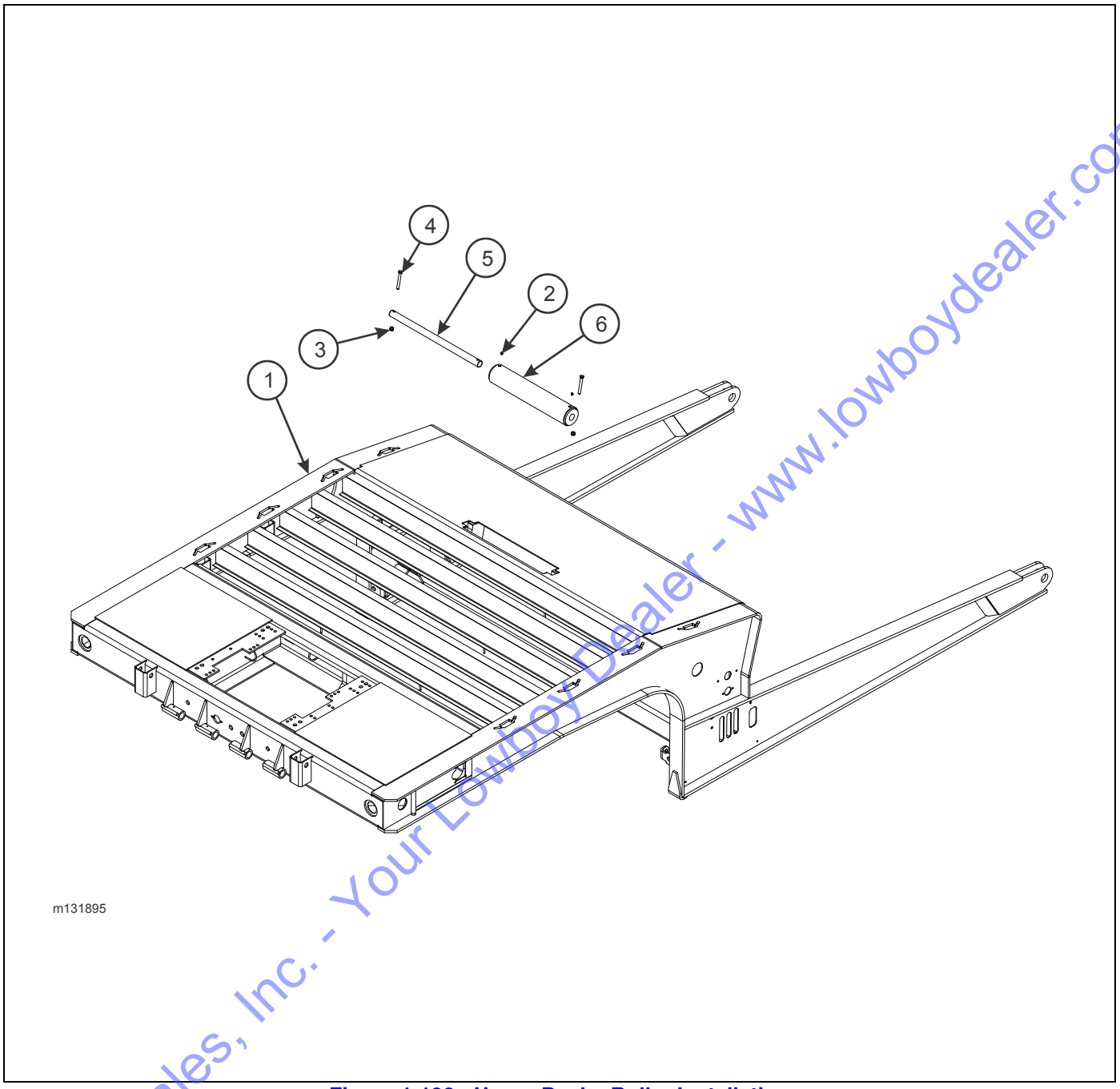
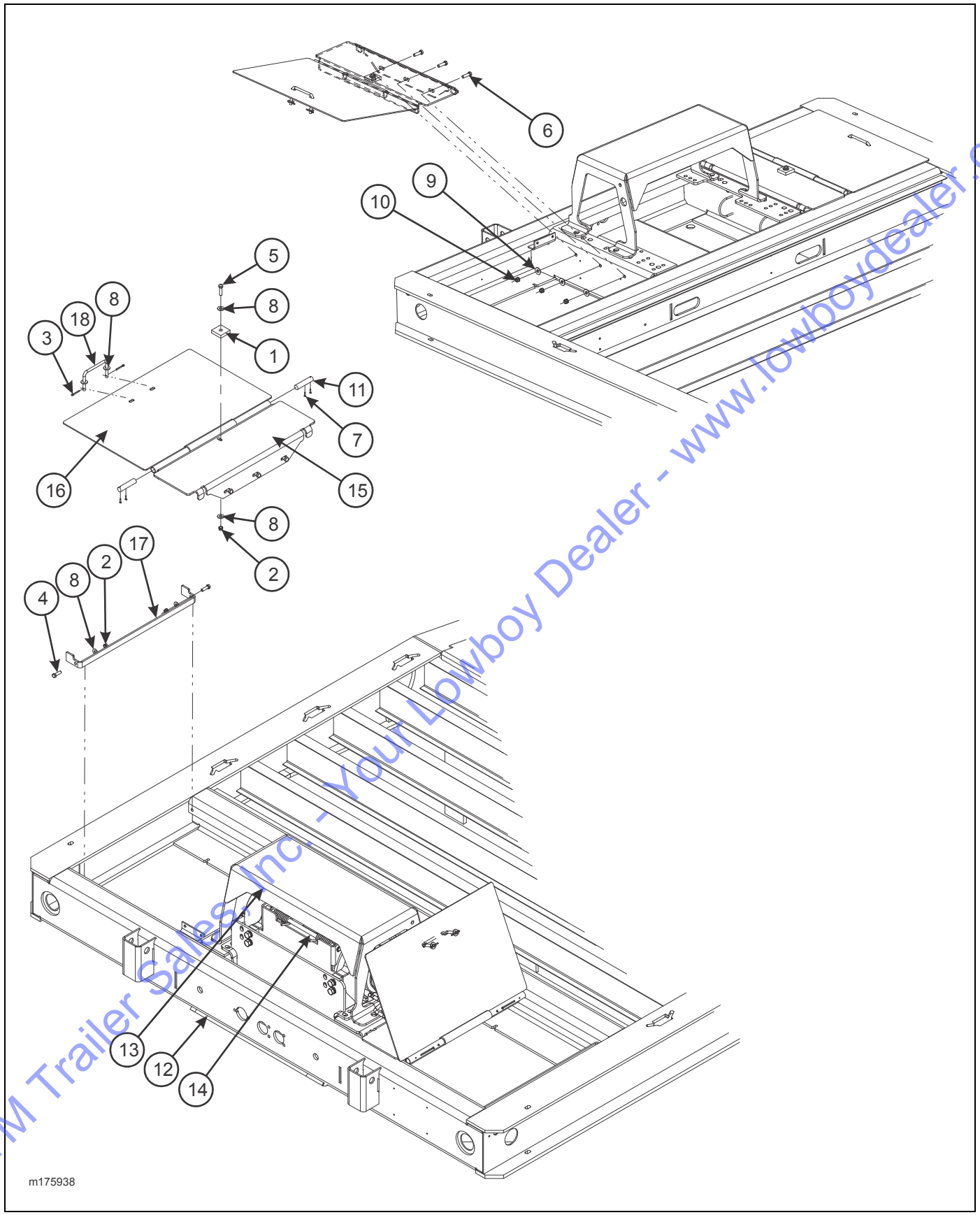


Figure 1-128: Upper Deck - Roller Installation

Upper Deck - Roller Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION (OPTION)	
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 1-129: Upper Deck - Toolbox Lid Installation "Non-Weight Bearing"

Upper Deck - Toolbox Lid Installation “Non-Weight Bearing”

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

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Winches - Options

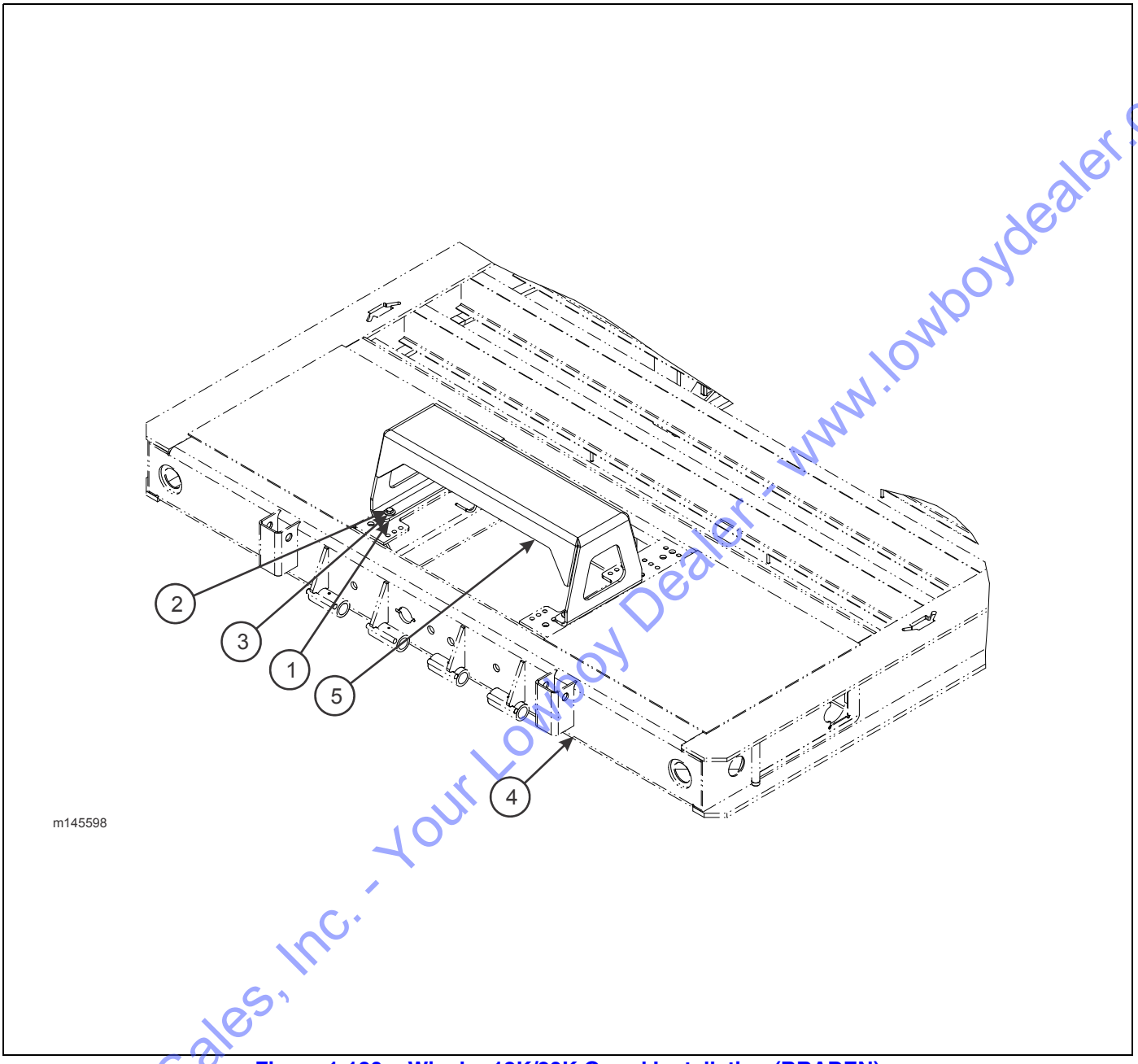


Figure 1-130: Winch - 12K/20K Guard Installation (BRADEN)

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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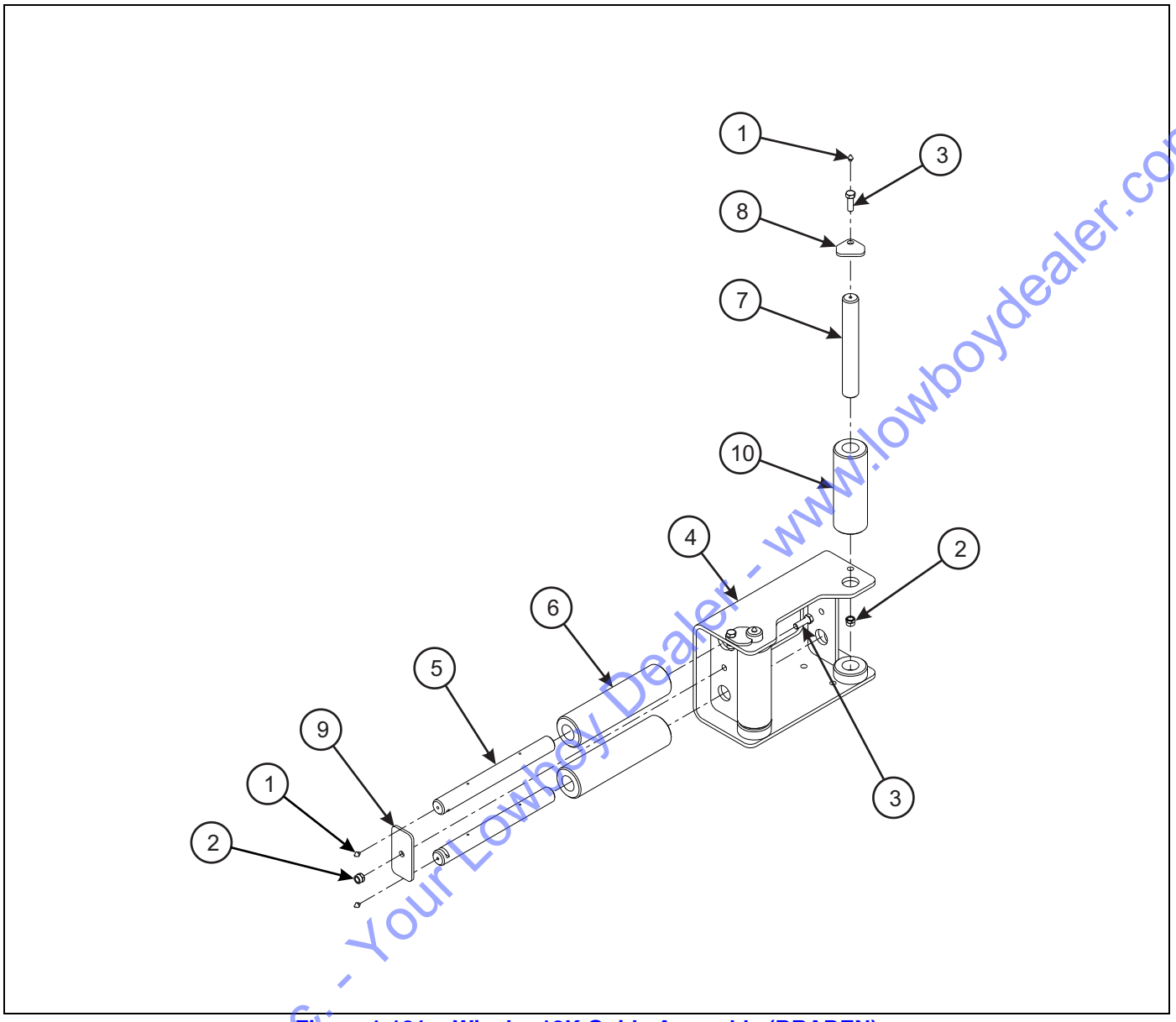


Figure 1-131: Winch - 12K Guide Assembly (BRADEN)

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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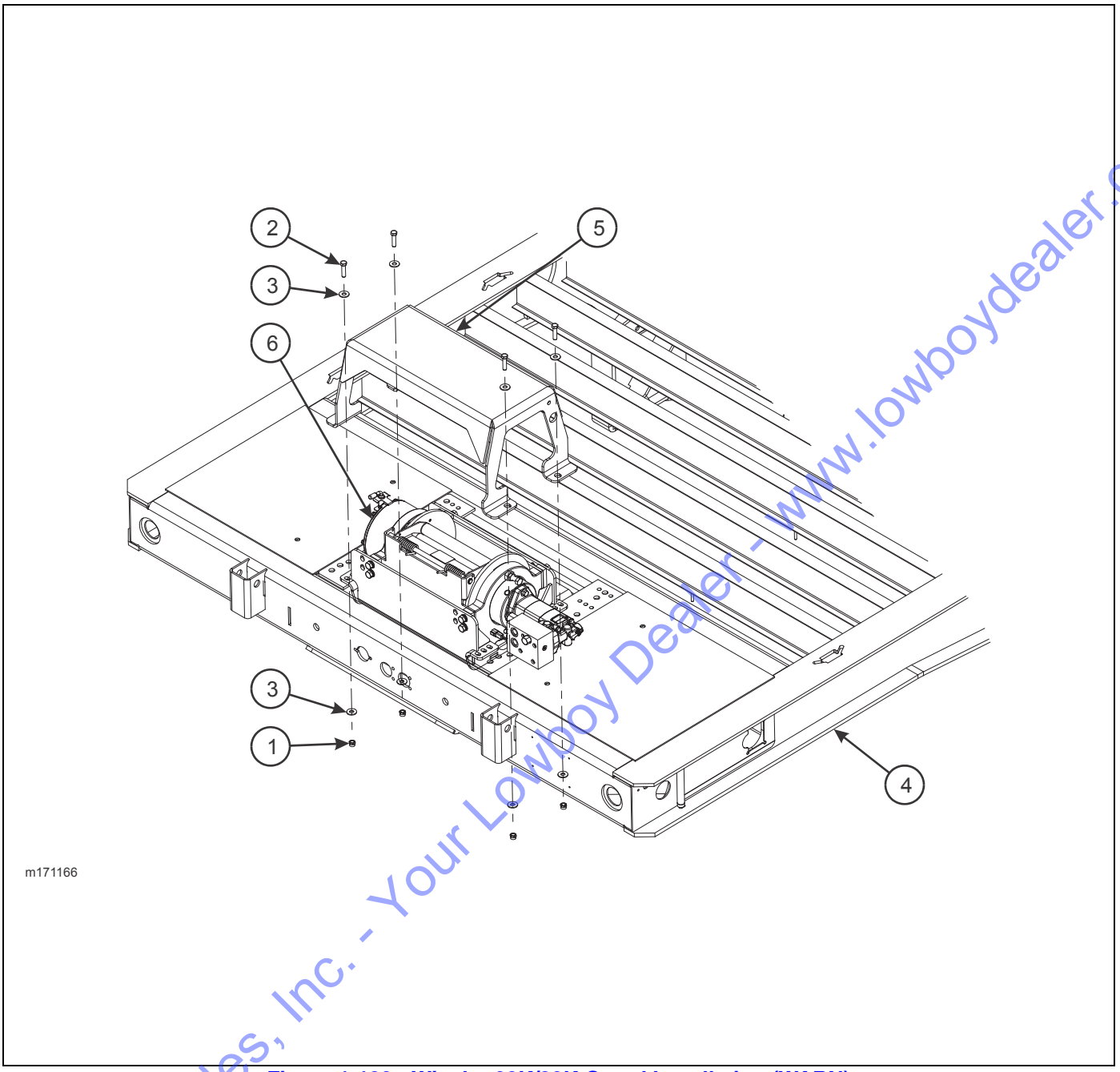


Figure 1-132: Winch - 20K/30K Guard Installation (WARN)

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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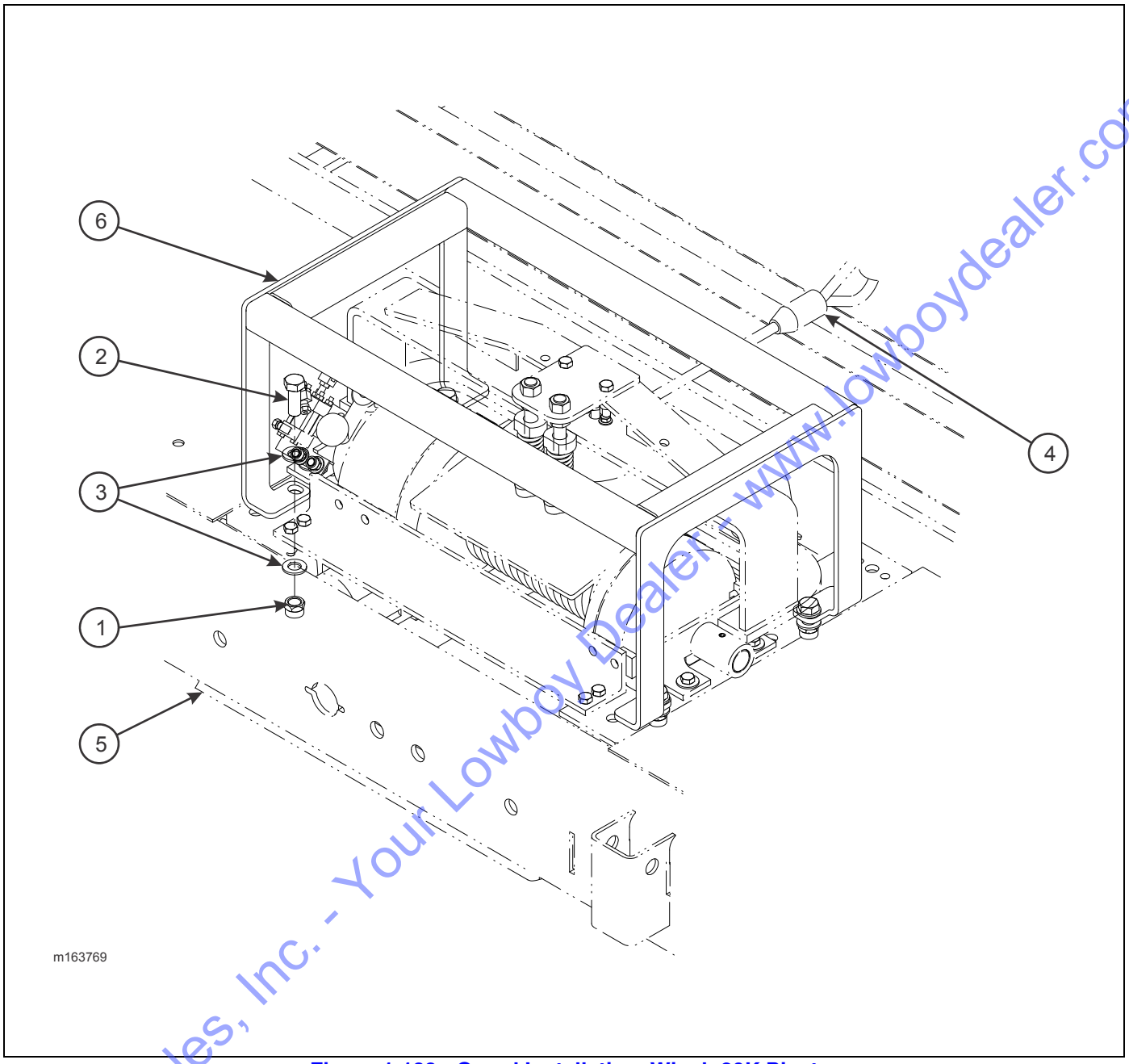


Figure 1-133: Guard Installation, Winch 20K Pivot

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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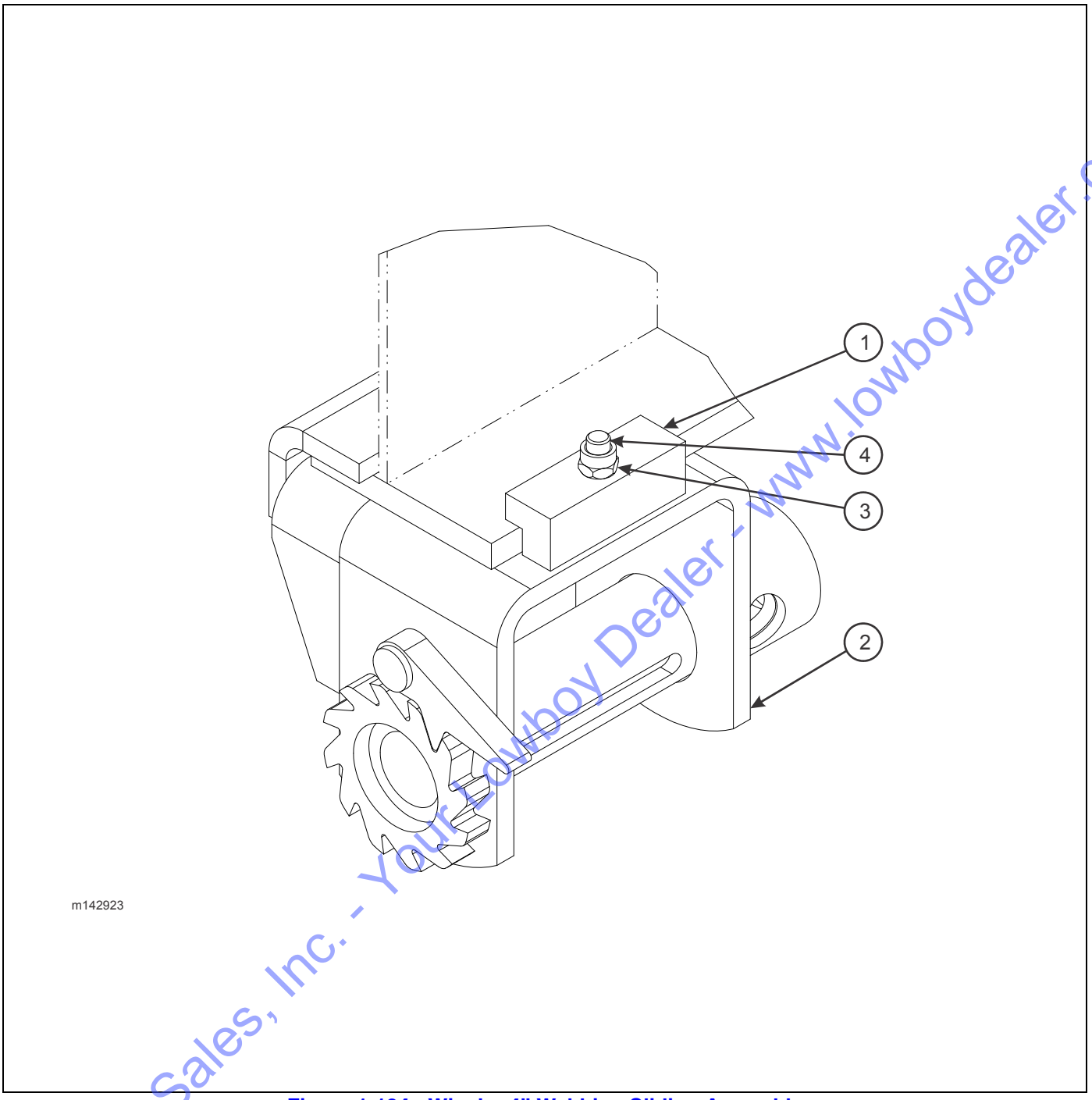


Figure 1-134: Winch - 4” Webbing Sliding Assembly

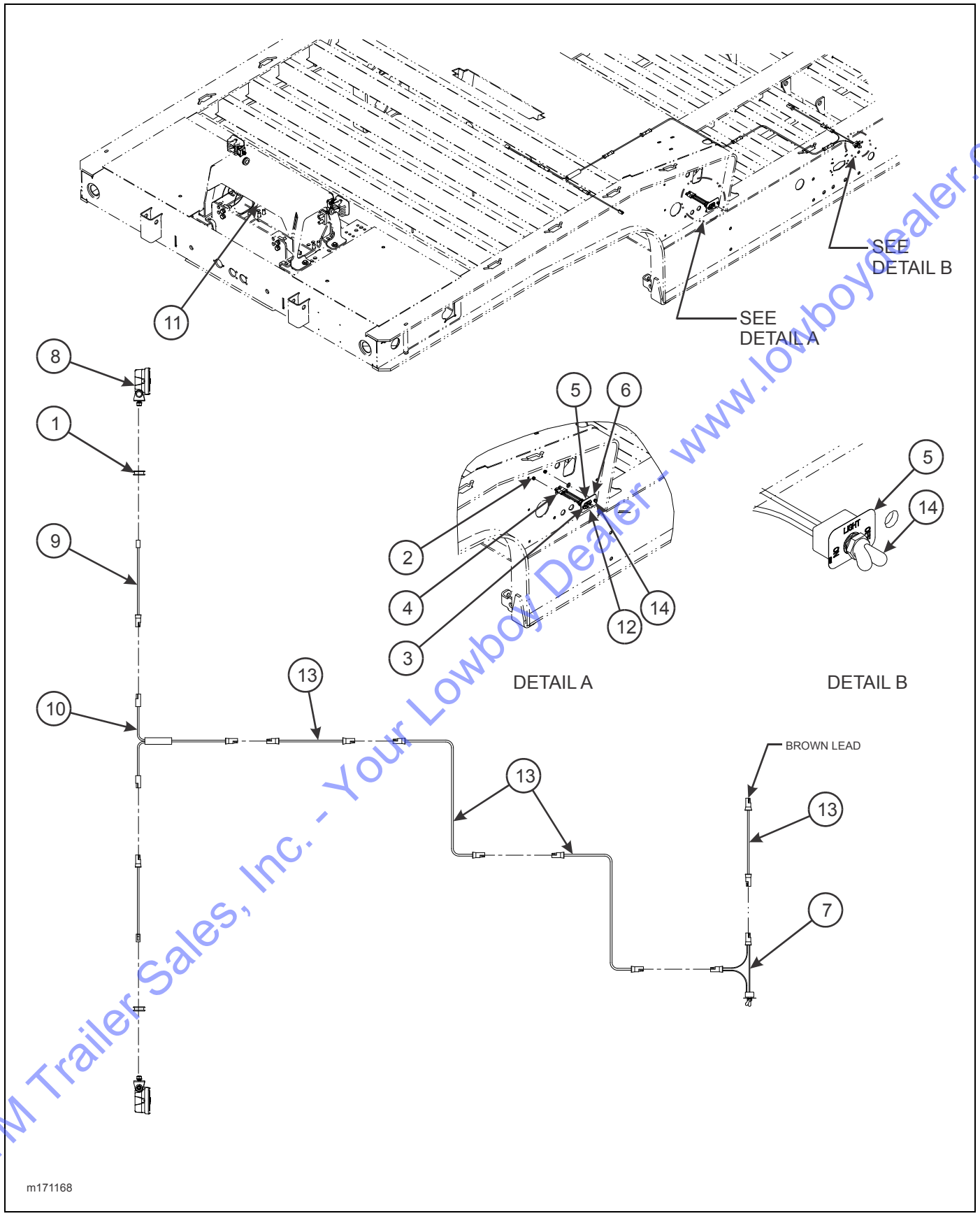
Winch - 4” Webbing Sliding Assembly

ITEM	PART NO.	DESCRIPTION	QTY.
	142923	WINCH ASSEMBLY, 4" WEBBING SLIDING	
1	134781	CLAMP, SLIDING WEB WINCH	1
2	142924	WINCH, WEBBING SLIDE MODIFICATION	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
4	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	1

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Table provided for general use.

NOTES:



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Figure 1-135: Winch - Work Light Installation

Winch - Work Light Installation

ITEM	PART NO.	DESCRIPTION	QTY.
	171168	WINCH WORK LIGHT INSTALLATION	
1	1-343-010001	GROMMET	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
4	1-861-010032-09	WASHER, FLAT 5/16W	2
5	130116	DECAL, ON/OFF LIGHT	1
6	137987	MOUNT, ELECTRICAL SWITCH	1
7	150117	TOGGLE SWITCH SEALED SPST	1
8	163996	LIGHT LED WHITE FLOOD LAMP	2
9	164052	HARNESS, 60” BRANCH WORK LIGHT	2
10	169853	HARNESS, JUMPER T-POWER	1
11	171166	12/20K WINCH GUARD INSTALLATION **(SEE PAGE 1-210)**	REF
12	174043	DECAL, WINCH HI/LO	1
13	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4
14	81264	RUBBER BOOT FOR ELECT SWITCH	2

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