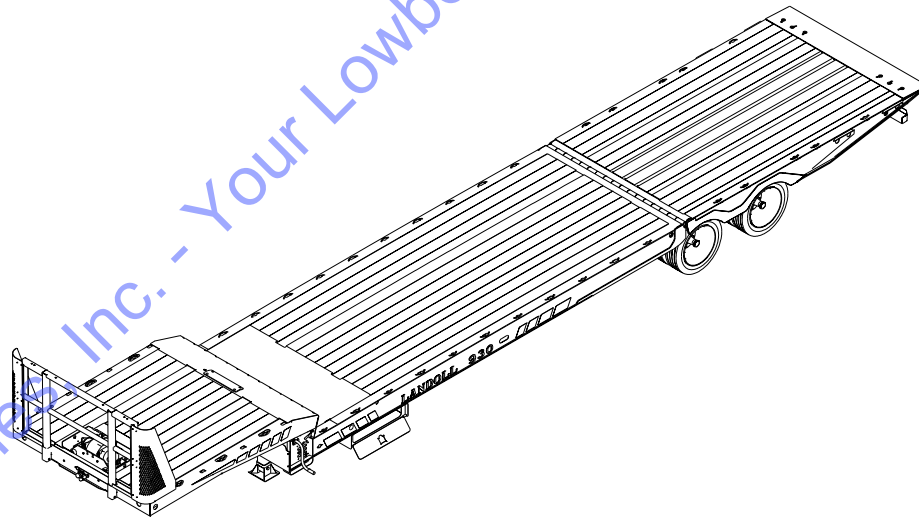




**MODEL 900 SERIES
HYDRAULIC TAIL SEMITRAILER
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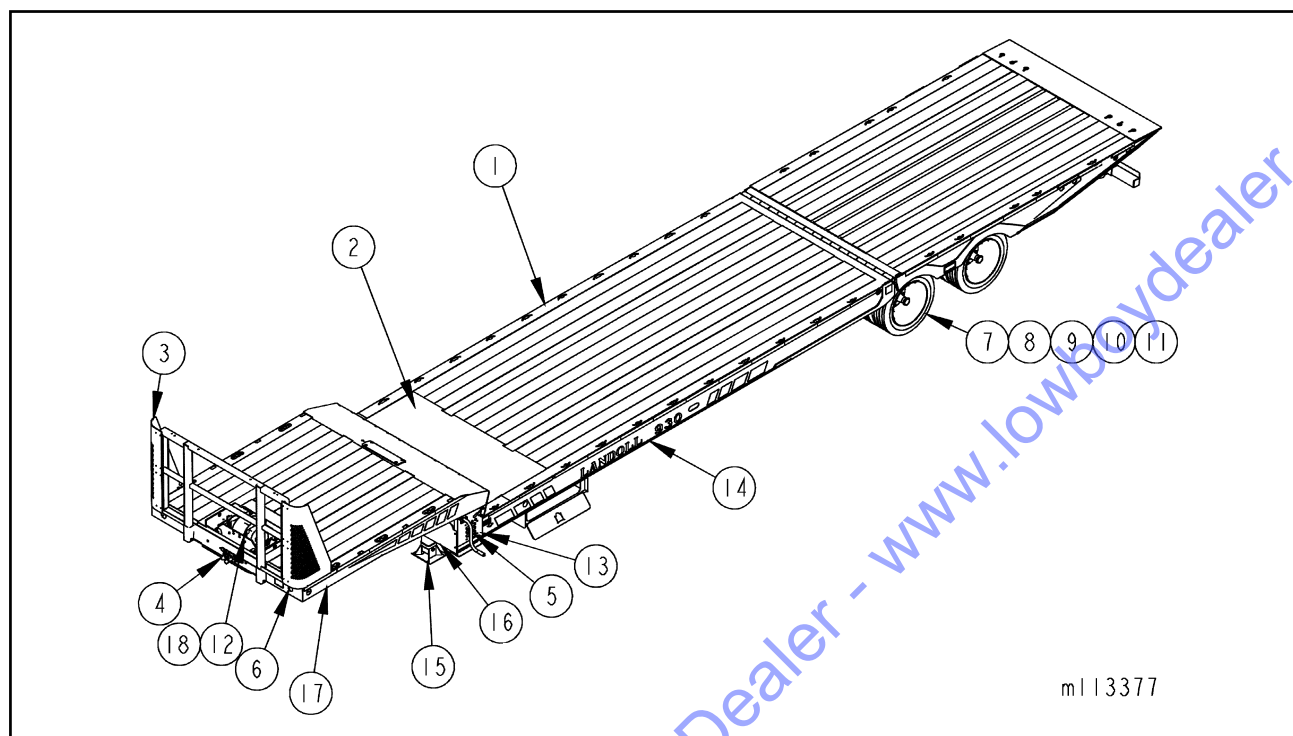


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1	1-2 - 1-5	FRAME ASSEMBLIES	1
2	1-6 - 1-7	AIR RAMP ASSEMBLY	1
3	1-8 - 1-9	BULKHEAD ASSEMBLY (OPTION)	1
4	1-10 - 1-11; 1-14 - 1-15	HYDRAULIC SYSTEM INSTALLATION	1
5	1-12 - 1-13; 1-16	HYDRAULIC WET KIT (OPTION)	1
6	1-17 - 1-19	ELECTRICAL SYSTEM	1
7	1-20 - 1-29; 1-32 - 1-33	UNDERCARRIAGE, AIR RIDE SUSPENSION	1
8	1-30 - 1-31	AXLE AND BRAKE	2
9	1-34 - 1-37; 1-40 - 1-41	AIR BRAKE SYSTEM	1
10	1-38 - 1-39	AIR SYSTEM ABS	1
11	1-42 - 1-47	HUB AND DRUM	4
12	1-48 - 1-79	WINCH ASSEMBLIES	1
13	1-80 - 1-89	REMOTE CONTROL (OPTION)	1
14	1-90 - 1-93	DECAL INSTALLATION	1
15	1-94 - 1-97	LANDING GEAR	2
16	1-98 - 1-111	AUXILIARY ENGINE HYDR POWER (OPTION)	1
17	1-112 - 1-117	MISCELLANEOUS OPTIONS	
18	3-222-010212	COVER INST. (USED WHEN NO WINCH) (SEE PAGE 1-53)	REF

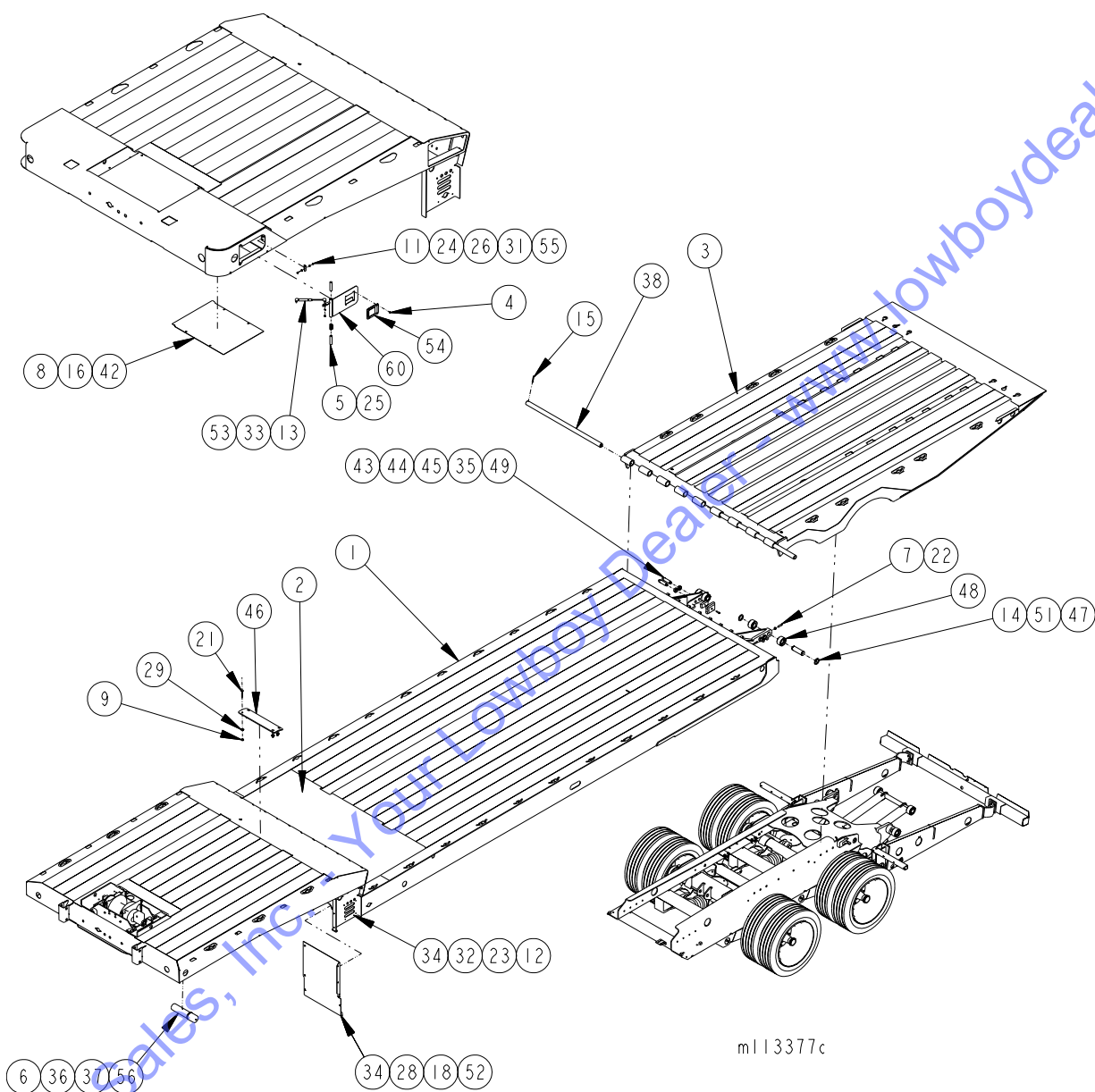


Figure 1-2 Frame Assembly
(1 of 2)

FRAME ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	---	FRAME ASSEMBLY	
1	---	FRAME WLDMT	1
2	108994	RAMP ASSEMBLY STL G/N SLOPE (PRIOR 1/1/00) (SEE PAGE 1-7)	1
	110635	RAMP ASSY FULL WIDTH SLOPE (AFTER 1/1/00) (SEE PAGE 1-7)	1
3	107642	TAIL WLDMT 12' (USED ON SMALL BRAKE TRAILERS)	1
	110641	TAIL WLDMT 14' (USED ON SMALL BRAKE TRAILERS)	1
	109101	TAIL WLDMT 15' (USED ON SMALL BRAKE TRAILERS)	1
	112636	TAIL WLDMT WOOD 12' (USED ON SM. BRAKE TRLRS)	1
	113427	TAIL WLDMT WOOD 15' (USED ON SM. BRAKE TRLRS)	1
	110639	TAIL WLDMT 12' (USED ON LARGE BRAKE TRAILERS)	1
	110642	TAIL WLDMT 14' (USED ON LARGE BRAKE TRAILERS)	1
	110640	TAIL WLDMT 15' (USED ON LARGE BRAKE TRAILERS)	1
4	BSL-6-4	RIVET	8
5	RPRB59004X3H	BAR RD, 3/4 X 3-1/2 NYLATRON	4
6	1-116-010019	BOX, MANUAL STORAGE	1
7	1-511-010001-07	NUT, HEX JAM 5/8-11	2
8	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	10
9	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
10	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	8
11	1-512-010007-03	NUT, HEX 10-24	4
12	1-512-010007-05	NUT, HEX 1/4-20	21
13	1-512-010007-06	NUT, HEX 5/16-18	8
14	108964	RING, RETAINING STD DUTY (PRIOR 9/21/99)	4
	1-630-010021-02	RING RETAINING 2 HD (AFTER 9/21/99)	4
15	1-647-010004259	SPRING PIN SLOTTED 3/8 X 3	2
16	1-654-010027-4	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR8	8
18	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
19	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)	4
20	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	8
21	1-654-010070-04	SCREW RD HEAD SQ NECK 1/2-13 X 1-3/4	4
22	1-654-010150-5	SCREW, SET SQ HD CUP PT 5/8 X 2	2
23	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4	19
24	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	4
25	1-720-010073-01	SPRING, COMP	2
26	1-861-010032-03	WASHER, FLAT #10	8
28	1-861-010032-11	WASHER, FLAT 3/8	6
29	1-861-010032-15	WASHER, FLAT 1/2	8
30	1-861-010032-19	WASHER, FLAT 5/8	8
31	1-861-010034-07	WASHER, SPLIT LOCK #10	4
32	1-861-010034-09	WASHER, SPLIT LOCK 1/4	21
33	1-861-010034-10	WASHER, SPLIT LOCK 5/16	4
34	1/4-20 X 1-1/4 CB	SCREW, RD HEAD SQ NECK 1/4-20 X 1-1/4 (AFTER 1/1/00)	2
35	100823	NUT, HEX JAM 1-1/4 X 7 GR2	4
36	101299	KEY CHAIN, LANDOLL	1

FRAME ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
37	105-0093	HOSE CLAMP 4-1/2	1
38	107578	TUBE, ROUND 2 X 1-1/4 X 49-1/2	2
	113214	TUBE, RD 2-3/8 X 1-3/4 X 49-1/2 (WOOD DECK TAILS)	2
39	107621	GLIDE, U/C	2
40	107622	BLOCK MOUNTING NYLATRON HOLDOWN	2
41	107660	GLIDE, U/C	2
42	107715	PLATE TOOLBOX BOTTOM	2
43	108294	SCREW, HEX SOCKET 3/8-16 X 1-3/4	10
44	108700	BLOCK, CTRG NYLATRON (AFTER 1/1/00)	2
45	108701	BLOCK, CTRG ADJUSTMENT	2
46	108739	PLATE, WINCH CABLE WEAR U/D	1
47	108933	BUSHING NARROW	4
48	108961	ROLLER, 4" ASSEMBLY	4
49	109004	ROD, THREADED ADJUSTMENT	4
50	109138	NYLATRON HOLD-DOWN BLOCK	2
51	108838	PIN, ROLLERS (PRIOR 9/21/99)	2
	109270	PIN, ROLLERS, HD SNAP RING (AFTER 9/21/99)	2
52	109271	SHIELD, CONTROL VALVE (AFTER 1/1/00)	1
	107739	SHIELD, HYD UPPER (PRIOR 1/1/00)	1
	107740	SHIELD, HYD (PRIOR 1/1/00)	1
53	3-242-010194	CYLINDER, GAS SPRING	2
54	3-443-010010	LATCH	2
55	3-482-010307	MOUNT, ADJ STRIKER PLATE	2
56	F-296-___	MANUAL, MODEL 900 SERIES OPERATOR'S	1
58	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
60	3-257-010043	DOOR WELDMENT, TOOL BOX LH	1
61	3-257-010044	DOOR WELDMENT, TOOL BOX RH (NOT SHOWN)	1
62	108749	SHIM (.1196) (IF NEEDED)	2

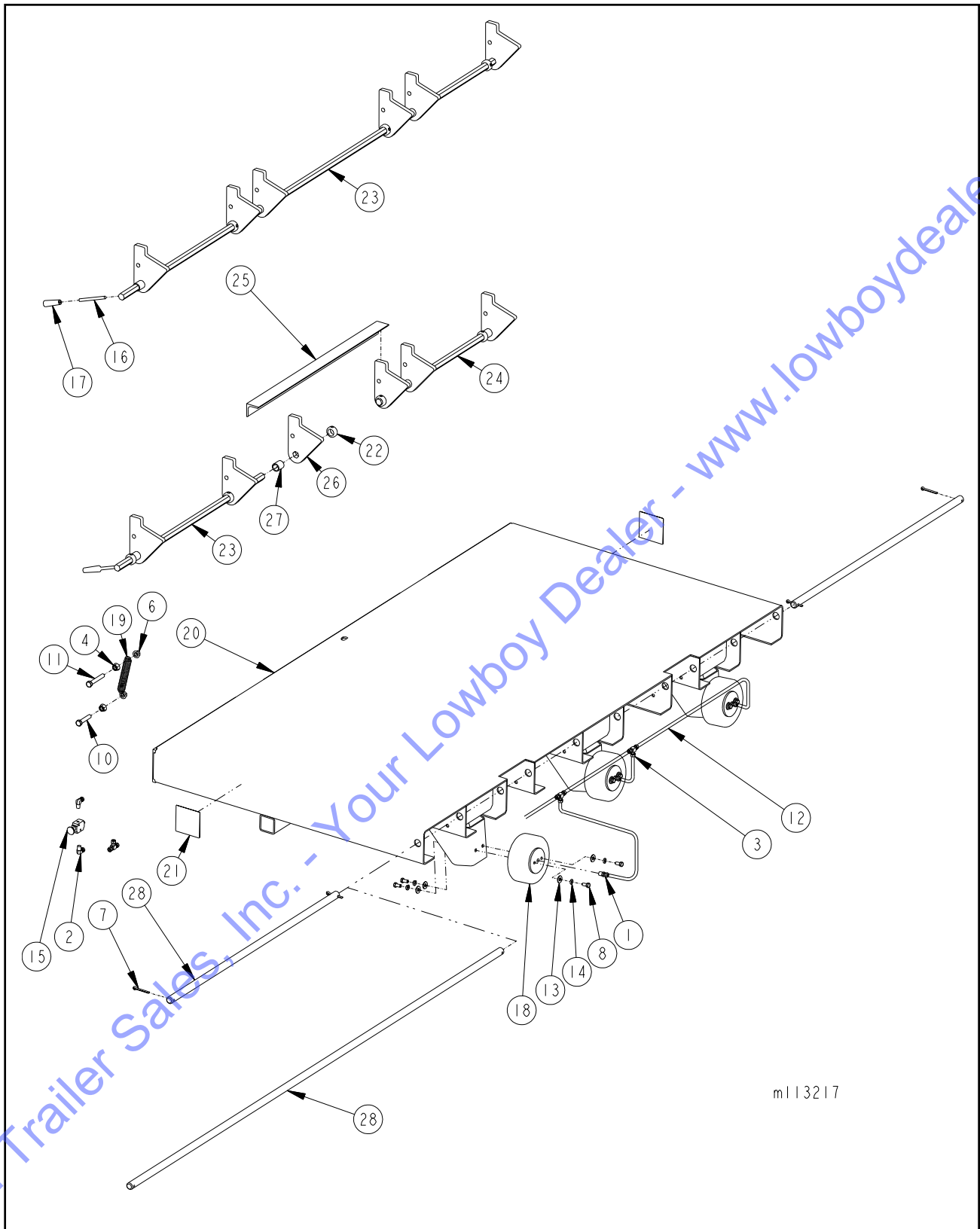


Figure 1-4 Air Ramp Assembly

AIR RAMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	108994	RAMP ASSEMBLY STL G/N SLOPE (PRIOR 1/1/00)	
	110635	RAMP ASSEMBLY FULL WIDTH SLOPE (AFTER 1/1/00)	
1	1-297-010007-05	FITTING, AIR	3
2	1-297-010008-05	FITTING, AIR 90	2
3	1-297-010010-01	FITTING, AIR UNION TEE	3
4	1-511-010001-05	NUT, HEX JAM 1/2-13	1
6	1-512-010007-09	NUT, HEX 1/2-13	2
7	1-557-010362-63	PIN, COTTER 1/2 X 2	*2,4
8	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	12
10	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	1
11	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	1
12	1-833-010001	TUBING NYLON 1/4 (NOT SHOWN)	AR
13	1-861-010032-10	WASHER, FLAT 3/8N	20
14	1-861-010034-11	WASHER, SPLIT LOCK 3/8	12
15	107887	VALVE AIR PUSH BUTTON	1
16	108969	ROD, THREADED RAMP HDL	1
17	3-360-010072	HANDLE PLASTIC	1
18	3-720-010042	SPRING AIR 6-1/2	3
19	3-720-010075	SPRING, EXTENSION 7/8 X 6	2
20	108993	RAMP WLDMT STL G/N (54 LENGTH)	1
	110636	RAMP WLDMT FULL WIDTH SLOPE (53-1/4 LENGTH)	1
	113218	RAMP WLDMT (45-1/4 LENGTH)	1
21	2-573-010335	DECAL, DANGER PINCHING	REF
22	71503635	COLLAR, RETAINING 1"	8
23	108968	SHAFT, RAMP LATCH STEEL RAMP (SINGLE SHAFT)	1
	111367	SHAFT, RAMP LATCH STREET SIDE (2 PIECE)	1
24	111368	SHAFT, RAMP LATCH CURB SIDE (2 PIECE)	1
25	RA607X32.375	ANGLE, 2 X 2 X 114 X 32-3/8	1
26	108966	LATCH, RAMP STEEL	6
27	71502909	BEARING, CLUTCH SPROCKET	8
28	108977	PIN, RAMP STEEL BASE (SINGLE PIN)	1
	113532	PIN, RAMP HINGE (2 PIECE PIN)	2

* FIRST QUANTITY USED WITH P/N 108994; SECOND QUANTITY USED WITH P/N 110635

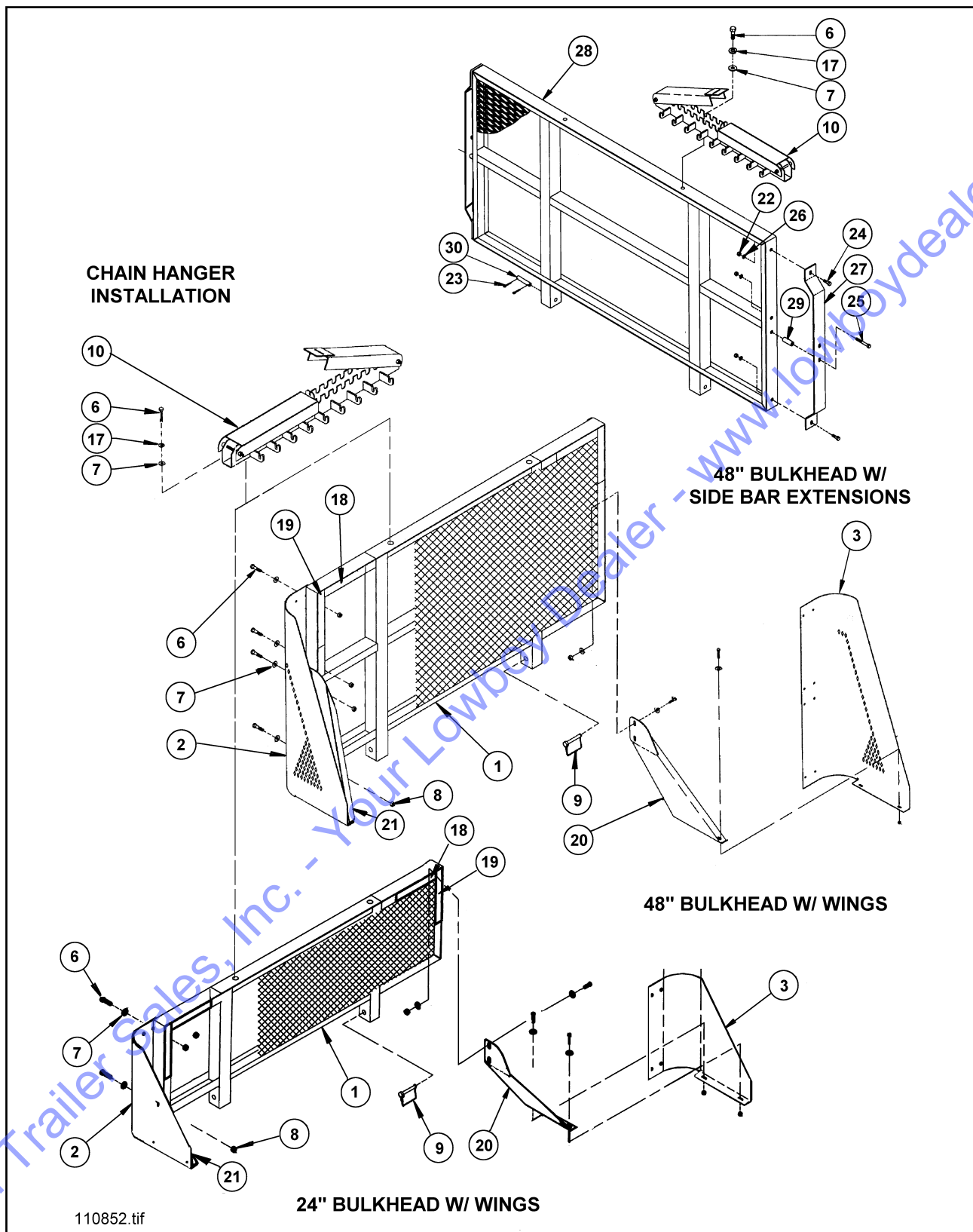


Figure 1-5 Bulkhead Assembly

BULKHEAD ASSEMBLY (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-141-010150-1	BULKHEAD INST-48" W/ STEEL WINGS (INCL ITEMS 1-21)	
	3-141-010150-2	BULKHEAD INST-48" W/ ALUM WINGS (INCL ITEMS 1-21)	
	110852	BULKHEAD INST 930-24-102 (INCL ITEMS 1-21)	
	B7-141-003	BULKHEAD CHAIN RACK INST. (INCL ITEMS 6-7,10,17)	
	3-141-010121-2	BULKHEAD INST. (INCL ITEMS 22-30)	
1	3-141-010149	BULKHEAD WLDMT 48X96, 660 (RD. CORNER FRAME)	1
	110847	BULKHEAD WLDMT 930-24	1
2	3-755-010207	SUPPORT, BULKHEAD STD 660-LH (STEEL)	1
	3-755-010201	SUPPORT, BULKHEAD 660-LH (ALUMINUM)	1
	110851	SUPPORT, BULKHEAD 930-24 LH	1
3	3-755-010206	SUPPORT, BULKHEAD STD 660-RH(STEEL)	1
	3-755-010202	SUPPORT, BULKHEAD 660-RH (ALUMINUM)	1
	110850	SUPPORT, BULKHEAD 930-24 RH	1
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	*16, 12
7	1-861-010032-11	WASHER, FLAT 3/8	*20, 16
8	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	*16, 12
9	9-557-010360	PIN, SNAP LOCK 1/2X3-1/2	2
10	3-141-010008	CHAIN HANGER AND LOCK CHANNEL	1
17	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
18	3-573-010378012	DECAL, 2X12 REFLEXITE WHITE	2
19	3-573-010378010	DECAL, 2X10 REFLEXITE WHITE	2
20	3-117-010074	BRACE BULKHEAD 600 - RH	1
	110848	BRACE BULKHEAD 930-24 RH	1
21	3-117-010075	BRACE BULKHEAD 600 - LH	1
	110849	BRACE BULKHEAD 930-24 LH	1
22	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
23	1-557-010362-63	PIN, COTTER 1/4 X 2	4
24	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
25	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
26	1-861-010032-15	WASHER, FLAT 1/2W	6
27	3-054-010101	BAR, SIDE 48" BULKHEAD 102" EXT	2
28	3-141-010155	BULKHEAD WLDMT 48 X 96 (SQ. FRONT END FRAME)	1
29	3-711-010025	SPACER, 48" BULKHEAD 1" DIA	2
30	6-557-010163	PIN, HITCH LEVELING LINK	2

* FIRST QUANTITY LISTED IS FOR P/N'S 3-141-010150-1 AND 3-141-010150-2. SECOND QUANTITY LISTED IS FOR P/N 110852.

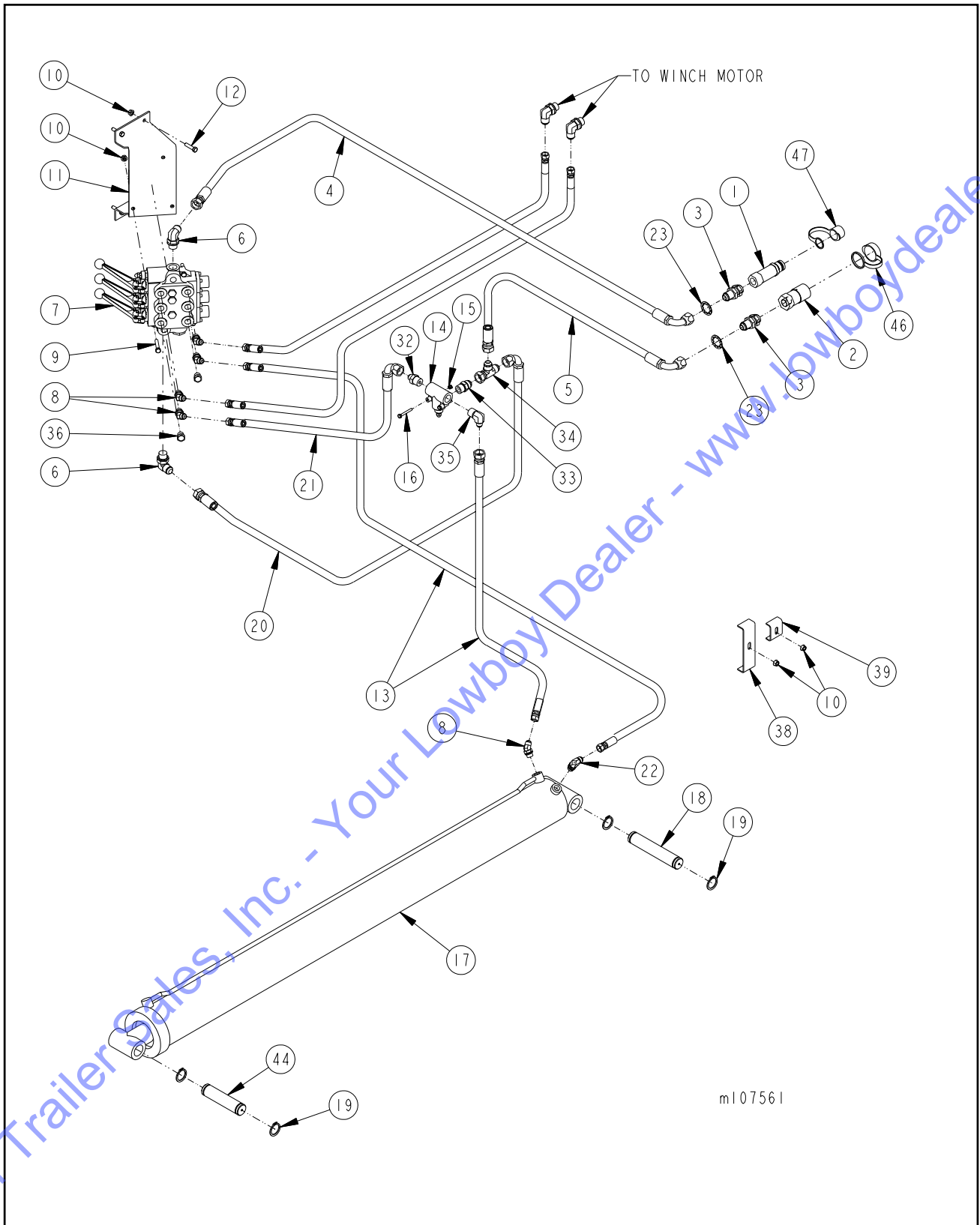


Figure 1-6 Hydraulic System Installation

HYDRAULIC SYSTEM INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	107557	HYDR INST. 930-45 MTR SPL (PRIOR 1/1/00)	
	107558	HYDR INST. 930-45 MTR SPL/ENG (PRIOR 1/1/00)	
	107560	HYDR INST. 930-48 MTR SPL (PRIOR 1/1/00)	
	107561	HYDR INST. 930-4 8 MTR SPL/ENG (PRIOR 1/1/00)	
	110705	HYDR INST, 900-45-12/48-15 WET KIT (AFTER 1/1/00)	
	110706	HYDR INST. 900-45-12/48-15 ENG(AFTER 1/1/00)	
	110707	HYDR INST. 900-48-12/50/51 WET KIT (AFTER 1/1/00)	
	110708	HYDR INST. 900-48-12/50/51 ENG (AFTER 1/1/00)	
1	*105479	COUPLER, FLAT FACE MALE	1
2	*105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
3	*105483	ADJUSTER, BULKHEAD	2
4	*1-397-010305164	HOSE ASSEMBLY 164	1
5	*1-397-010305156	HOSE ASSEMBLY 156	1
6	2062-12-12S	ADAPTER, 90	2
7	3-846-010159	VALVE ASSY, 3 SPL-MTR 1ST (SEE PAGE 1-15)	1
8	2061-8-8S	ADAPTER, 45	5
9	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3
10	1-510-010001	NUT, HEX FLANGE LOCK 3/8-16	21
11	3-482-010563	MOUNT WELDMENT, VALVE, HYD/PNEUM	1
12	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
13	1-397-010301170	HOSE ASSEMBLY 170 (107557, 107558, 110705 & 110706)	2
	1-397-010301208	HOSE ASSEMBLY 208 (107560, 107561, 110707, 110708)	2
14	106908	VALVE, HYDR PRESSURE RELIEF	1
15	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
16	1-654-010047-10	SCREW HEX HEAD CAP 1/4-20X2 GR5	2
17	109126	CYLINDER 5 X 60 W/ PLT CHK	1
	114081	PISTON ROD ASSEMBLY	1
	109145	CHECK VALVE CARTRIDGE	1
	109144	PACKING KIT	1
18	107658	PIN, 1-1/2 X 8-1/4	1
19	1-630-010021-01	RING, SNAP	4
20	109147	HOSE ASSEMBLY 3/4 X 30-1/2	1
21	107756	HOSE ASSEMBLY 1/2 X 24	1
22	2062-8-8S	ADAPTER, 90	1
23	1-861-010059-21	WASHER LOCK INTERNAL 1-1/8	2
32	2021-12-8S	ADAPTER	1
33	2021-12-12S	ADAPTER	1
34	203102-12-12S	ADAPTER, SWIVEL TEE	1
35	2024-12-8S	ADAPTER, 90	1
36	1-007-010025	PLUG, O-RING BOSS	2
37	1-796-010003-02	TIE STRAP, PLASTIC (NOT SHOWN)	26
38	3-181-010006	CLAMP, HOSE LARGE	10
39	2-181-010001	CLAMP, HOSE	4
44	107657	PIN, 1-1/2 X 6-3/8	1
46	*105482	COUPLER, DUST CAP FEMALE	1
47	*105481	COUPLER, DUST CAP MALE	1

* THESE ITEMS USED ONLY WITH MOTOR SPOOL AND WET KIT OPTIONS.

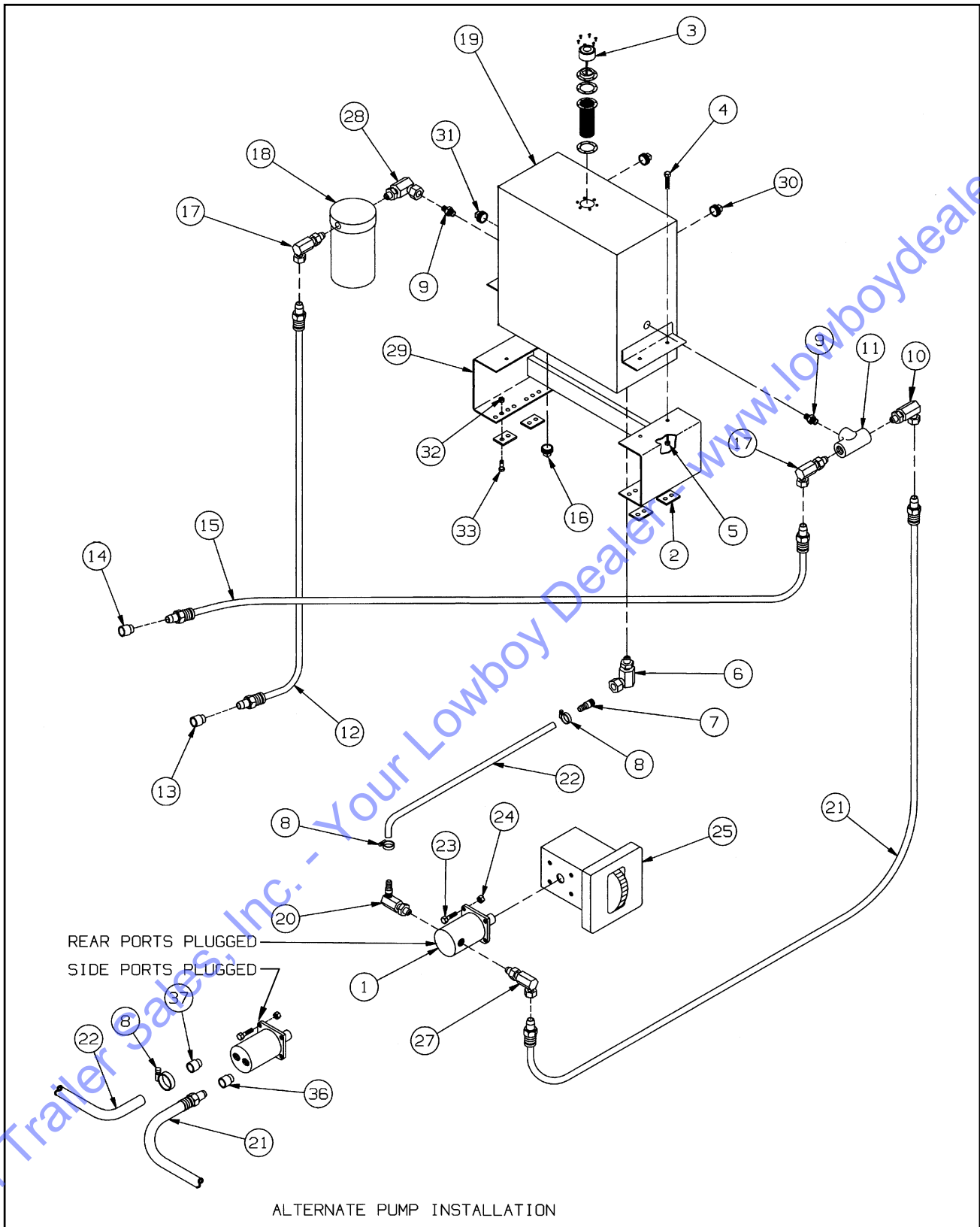


Figure 1-7 Wet Kit Assembly

WET KIT ASSEMBLY (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	WET KIT 30 GAL	
1	3-591-010001	PUMP, HYDRAULIC GEAR (SEE PAGE 1-16)	1
2	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
3	3-162-010001	FILLER, BREATHER STRAINER	1
4	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
6	1-1/4ST ELL	PIPE ELBOW, 90°	1
7	3-561-010001	HOSE, BARB	1
8	6828	CLAMP, HOSE	2
9	C3069X12	NIPPLE HEX	2
10	2024-12-8S	ADAPTER 90	1
11	125130	RD12D HYD. BY-PASS SRDD	1
12	106760	HOSE ASSEMBLY, 3/4X164	1
13	105479	COUPLER, FLAT FACE MALE	
	105481	COUPLER, DUST CAP MALE	1
14	105480	COUPLER, FLAT FACE FEMALE	
	105482	COUPLER, DUST CAP FEMALE	1
15	106759	HOSE ASSEMBLY, 1/2X164	1
16	1-560-010002-07	PLUG, BLACK PIPE	1
17	2024-12-12S	ADAPTER 90	1
18	1-295-010001	FILTER, RETURN	1
	1-295-010002	FILTER ELEMENT	1
19	3-786-010043	TANK, HYDRAULIC	1
20	1-007-010006	ELBOW 90	1
21	1-397-010301100	HOSE ASSEMBLY 1/2X100	1
22	3-399-010001	HOSE SUCTION 1-1/4X4	8'
23	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	4
24	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
25	PTO*	POWER TAKEOFF	1
27	2062-16-8S	ADAPTER 90	1
28	2047-12-12S	ELBOW 90 SWIVEL	1
29	3-482-010503	TANK MOUNT	1
30	1-560-010002-05	PIPE PLUG 3/4	2
31	1-560-010002-04	PIPE PLUG 1/2	1
32	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
33	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13X1-3/4 GR5	4
36	12-16 070120	ADAPTER	1
37	107513	ADAPTER	1

* IF IT BECOMES NECESSARY TO ORDER A NEW POWER TAKEOFF, HAVE READY THE TRANSMISSION MODEL NUMBER AND SERIAL NUMBER BEFORE CALLING THE PARTS DISTRIBUTION CENTER.

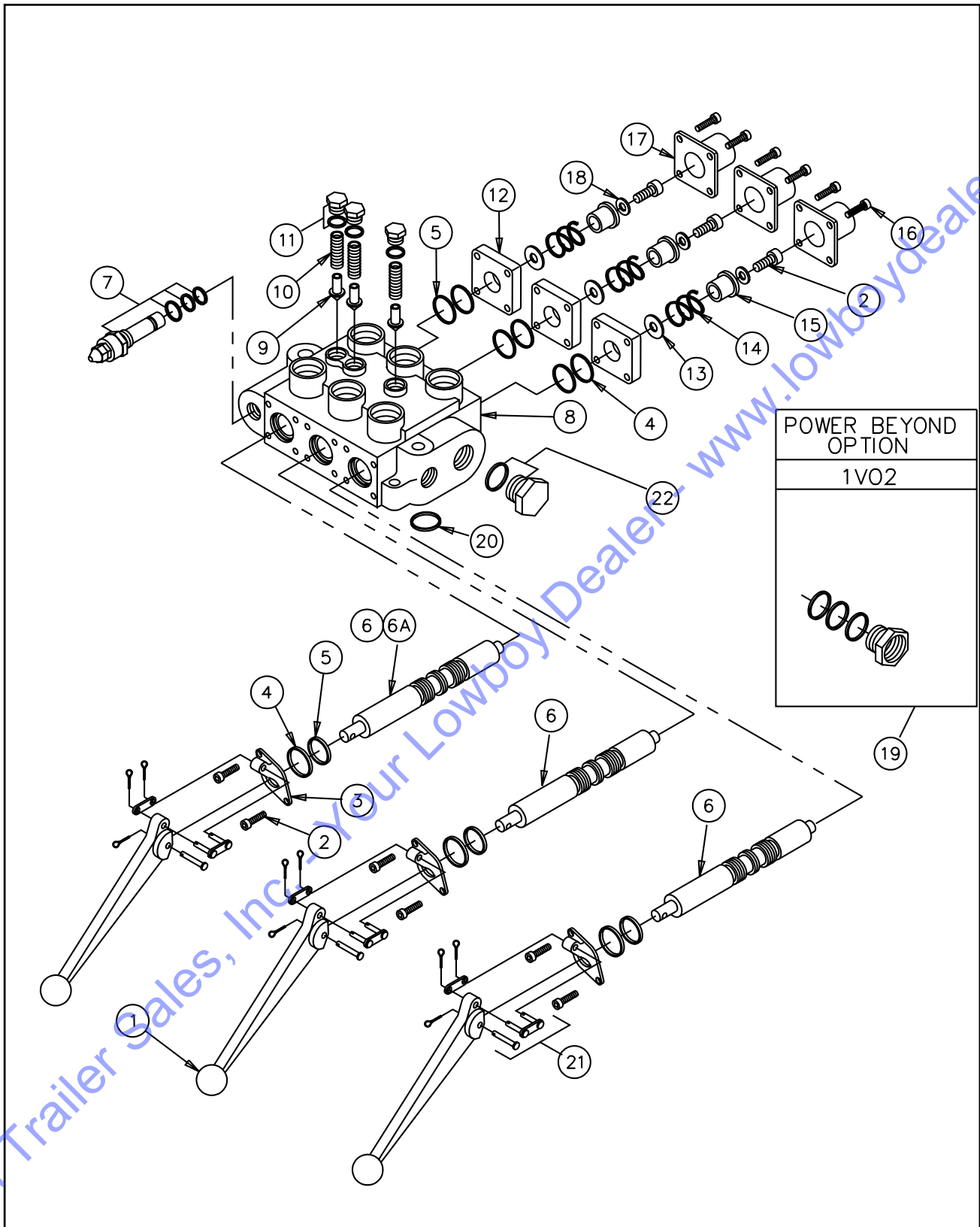


Figure 1-8 Three Spool Valve

VALVE, THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010159	VALVE ASSEMBLY, THREE SPOOL MOTOR 1ST	**1
1	1V1703	VALVE, HANDLE	3
2	2A0079-404	CAP SCREW (TIGHTEN TO 7 - 11 FT.-LBS.)	9
3	4Z4306	BRACKET, HANDLE	3
4	1A0711	WASHER, O-RING SPOOL	6
5	2A0283-7214	SEAL, SPOOL	6
6	*	SPOOL, 4-WAY	**2
6A	*	MOTOR SPOOL, 4-WAY	**1
7	1R0017	RELIEF ASSEMBLY (1500 - 3000 PSI)(PRESET @ 2500 PSI)	1
8	*	HOUSING, VALVE	1
9	1V0081	POPPET, LOAD CHECK	3
10	1A0757	SPRING, LOAD CHECK	3
11	1V1725	PLUG, LOAD CHECK	3
12	1A0709	SPACER, END	3
13	1A0291	WASHER, STOP	3
14	1A0744	SPRING, CENTERING	3
15	1A0292	COLLAR, STOP	3
16	2A0079-406	CAP SCREW (TIGHTEN TO 7 -11 FT.-LBS.)	12
17	1A0294	CAP, END	3
18	1A0290	WASHER, CENTERING SPRING	3
19	1V0208	ADAPTER ASSEMBLY, REMOTE POWER BEYOND (Contains all necessary O-rings)	1
20	2A283-7214	GROMMET, RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG, CONVERSION	1
	2V0010	SEAL KIT	

* NOT SOLD SEPARATELY.

** COMPONENT IS 3-SPOOL VALVE WITH 1ST STAGE MOTOR SPOOL USED IN PLANETARY WINCH APPLICATIONS.

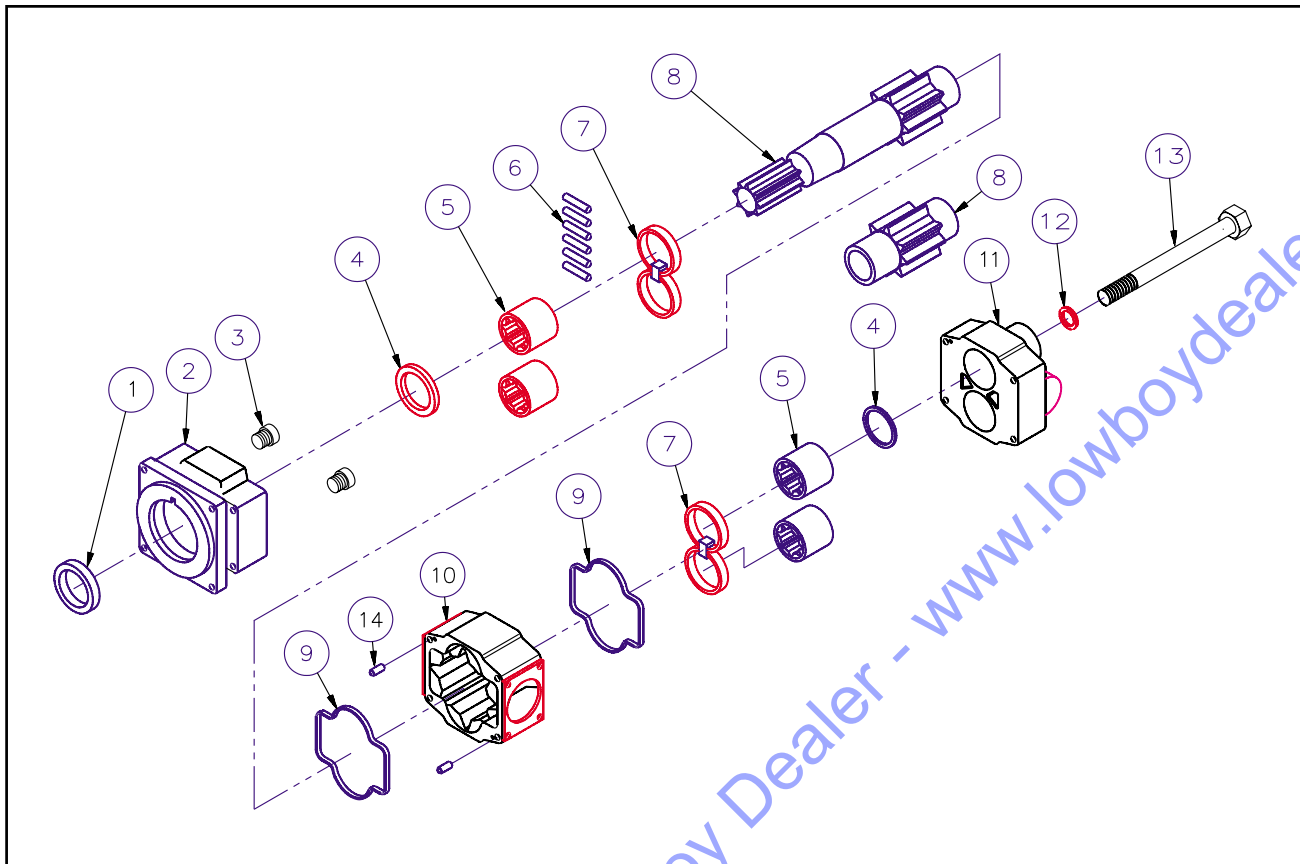


Figure 1-9 Pump, Wet Kit Hydraulic

PUMP, WET KIT HYDRAULIC

ITEM	PART NO.	DESCRIPTION	QTY.
	3-591-010001	HYDR. PUMP, GEAR (COMM. SHEARING 312-9610-394)	1
1	391-2883-058	LIP SEAL	1
2	312-5037-201	HOUSING, SEC.	1
3	391-3681-001	CHECK, ASSEMBLY	2
4	391-2585-006	RING SEAL	2
5	391-0381-068	BRG. ROLLER	4
6	391-2882-086	SEAL, POCKET STRIP	12
7	391-2185-013	THRPL	2
8	312-2917-130	SET, GEAR SHAFT	1
9	391-2884-050	SEAL, SQ.-R	2
10	312-8217-327	HOUSING, GEAR	1
11	312-3220-327	HOUSING, PEC.	1
12	391-3784-028	WASHER	4
13	391-1401-025	CAPSCREW	4
14	391-2082-032	DOWEL PIN	4
	391-1802-119	SEAL KIT	

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010113	ELECTRICAL INSTALLATION STD	
	B3-272-076	ELECT, WORK LIGHT INST. (OPTION)(INCL 13-20)	
	111928	ELECTRICAL INSTALLATION LED 53'	
	111929	ELECTRICAL INSTALLATION LED 48'	
1	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	59W-2-3	BOOT, RUBBER	2
4	10205R	LAMP, RED REFLECTOR	2
	111922	LIGHT RED LED CLEARANCE	2
5	59S-7	RECEPTACLE, 7-PIN	1
6	10403	GROMMET MOUNT	7
7	10205Y	LAMP, YELLOW REFLECTOR	8
	111923	LIGHT YELLOW LED CLEARANCE	8
8	3-368-010176	HARNESS ASSY, FRT, MAIN	1
9	3-368-010177	HARNESS ASSEMBLY BED (45/12, 48/12, 48/15)	1
	3-368-010197	HARNESS ASSEMBLY BED (50/14, 51/15)	1
10	102728	HARNESS ASSY, U/C MAIN (NON ABS)	1
	102836	CABLE HARNESS - ABS ONLY (AFTER 3/1/98)	1
11	60700	GROMMET, LIGHT	8
	116130	GROMMET, MOUNT OVAL	8
13	1-343-010010	GROMMET, 9/16 HOLE	6
14	3-368-010250	HARNESS, BLKHD LIGHTS - 600/317	1
15	64181	LAMP, RECT QUARTZ HALOGEN	2
16	3-368-010253	HARNESS ASSY, CONTROL PANEL 600	1
17	3-368-010252	HARNESS ASSY, BLKHD LIGHT EXT. 600	1
18	3-368-010254	HARNESS ADAPT ASSY, ENG LT PKG	1
19	STP147	CONNECTOR, BULLET MALE	2
20	STP164	CONNECTOR, BULLET FEMALE	1
21	3-272-010017	TOGGLE SWITCH, SEALED	1
22	81264	RUBBER BOOT FOR ELECT SWITCH	REF
23	10404	GROMMET MOUNT	4
24	60202Y	LAMP, REAR AMBER TURN	2
	116134	LIGHT YELLOW OVAL TURN	2
25	15009	LICENSE LAMP	1
26	106652	HARNESS, BUMPER	1
27	1-861-010034-07	WASHER, SPLIT LOCK #10	2
28	1-656-010003051	SCREW, RD HEAD MACH #10-24 X 3/4	2
29	1-512-010007-03	NUT, HEX #10-24	2
30	60015Y	LIGHT, TURN & CLEARANCE W/GROM.(INCL.11&31)	2
31	60215Y	LAMP ONLY, TURN CLEARANCE	2
	111925	LIGHT LED TURN MARKER YELLOW	2
32	1-510-010001	NUT, FLANGE 3/8-16	15
33	2-181-010001	CLAMP, HOSE	14
34	26331	LIGHT, COURTESY	1
35	1-343-010007	GROMMET	2
36	1-861-010032-06	WASHER, FLAT 1/4	2
37	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
38	750-029	JUNCTION BOX, 7 STUD	1
39	1-879-010005120	WIRE, 14GR BRN	1
40	239-3646-4	TERMINAL, 14 AWGX#10 RING	1
41	1709A5911-01	FUEL GAUGE	REF
42	G430445-7	FUEL LEVEL SENDER	REF
43	1-879-010005	WIRE, 14AWG BRN	REF
44	1-879-010005	WIRE, 14AWG BRN	REF
45	1-318-010010	FUSE HOLDER, INLINE 20 AMP	1
46	1-318-010011	FUSE, 20 AMP	1
47	3-203-010001	TERMINAL, RING 3/16 X 10 AWG	1
48	1-879-010010	WIRE, 14 AWG X 12" WHITE	1
50	60202R	LAMP, STOP TAIL 3 X 7 RED	4
51	1-796-010003-02	TIE WRAPS (NOT SHOWN)	2
53	239-3646-5	TERMINAL RING 1/4 X 14AWG	1
54	3-446-010046	LIGHT ABS LAMP 2.5" DIA AMBER - ABS ONLY	1
55	3-368-010294	HARNESS, TAN ABS LAMP	1
56	106371	LIGHT, TRN-TL-STOP W/ GROMMET (INCL 11 & 50)	4
	116131	LIGHT, RED LED STT	4
57	107598	GROMMET RECT C./MKR LAMP	3
	116133	GROMMET, MOUNT 1.25 X 2.5 LAMP	3
58	107599	LIGHT, RED CLEARANCE MARKER	3
	113374	LIGHT, RED LED CLEARANCE	3
59	108647	LIGHT, TURN YELLOW W/ GROMMET (INCL 11 & 24)	2
60	111924	PLUG, ADAPTER STD TO LED CLEARANCE	10
61	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
62	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
64	3-272-010125	RECEPTACLE, 7 POLE SOCKET	1
65	3-368-010190	HARNESS, REAR REMOTE 45'/48'	1
	3-368-010201	HARNESS, REAR REMOTE 51'	1
66	59W-2-3	RUBBER BOOT	1
67	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2

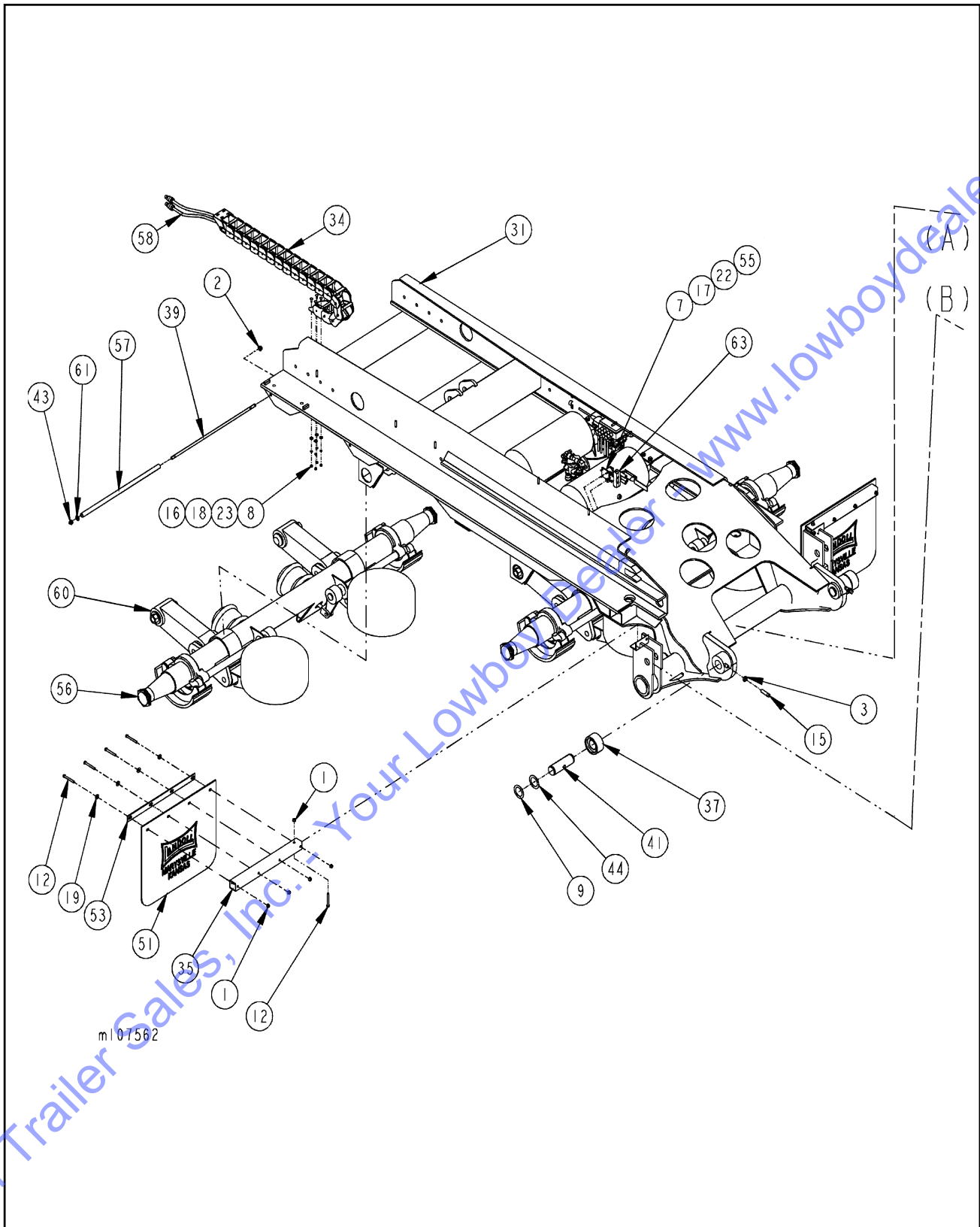


Figure 1-11 U/C Assembly, Air Ride Suspension, Tandem
(1 of 2)

UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
	107562	SUSP ASSY A/R 930-12 2212-77T	
	109148	SUSP ASSY A/R 930-15 2212-77T	
	109149	SUSP ASSY A/R 930-12 2216-75T	
	109190	SUSP ASSY A/R 930-12 2512-77T	
	109191	SUSP ASSY A/R 930-15 2512-77T	
	109345	SUSP ASSY A/R 930-15 2516-75T	
	109343	SUSP ASSY A/R 930-14 2212-77T	
	109344	SUSP ASSY A/R 930-14 2216-75T	
	113375	SUSP ASSY 930-15 LED 2216-75T.0	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	15
2	1-510-010003-09	NUT, FLANGE HD SERRATED 1/2-13	2
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
6	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
7	1-512-010007-03	NUT, HEX 10-24	4
8	1-512-010007-05	NUT, HEX 1/4-20 GRB	4
9	108964	RING RETAINING STD DUTY (PRIOR 9/21/99)	6
	1-630-010021-02	RING RETAINING STD. DUTY (AFTER 9/21/99)	6
10	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
11	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
12	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
13	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8 GR5	4
14	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
15	1-654-010150-05	SCREW, SET SQ HD CP PNT 5/8 X 2	2
16	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
17	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	4
18	1-861-010032-07	WASHER, FLAT 1/4	11
19	1-861-010032-11	WASHER, FLAT 3/8W	28
20	1-861-010032-19	WASHER, FLAT 5/8W	8
21	1-861-010032-21	WASHER, FLAT 3/4W	2
22	1-861-010034-07	WASHER, SPLIT LOCK 10	4
23	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
24	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
25	107-0039	SCREW SELF-TAP 10 X 3/4 TYPE B	4
26	107470	NUT, FLANGE HEAD SPIRALOCK 3/8-16	2
27	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
28	107588	PLATE WELDMENT LIFT GUIDE	1
29	107591	ROD WELDMENT SPRING TENSION BUMPER	2
30	107594	MOUNT BUMPER ENERGY PAK	2
31	107601	UNDERCARRIAGE WELDMENT	1
32	107732	DOCK LIFT ARM WELDMENT	1
33	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8	8
34	108724	SUPPORT E-CHAIN	1
35	108746	BRACKET, MUD FLAP	2

UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
36	108933	BUSHING NARROW	4
37	108961	ROLLER ASSEMBLY 4"	4
38	109158	BEARING CAST BUMPER PIVOT	8
39	109175	ROD, INDICATOR U/C POSITION	1
40	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THR	2
41	108838	PIN, ROLLERS TAIL (PRIOR 9/21/99)	2
	109270	PIN, ROLLER HD SNAP RING (AFTER 9/21/99)	2
42	107583	BUMPER WELDMENT (PRIOR 6/21/99)	1
	109524	BUMPER WELDMENT L TAIL (AFTER 6/21/99)	1
43	109844	NUT, HEX ACORN 1/2-13	1
44	109895	WASHER	2
45	2-557-010045	FRONT PIN SPRING CLAMP DRILL	2
46	2-684-010001	SHIM ROCK SHAFT BEARING	4
47	2-684-010045	SHIM ROCKSHAFT BEARING	4
48	2-720-010008	SPRING	2
49	239-9076-2	CLAMP 5/16	2
50	239-9076-5	CLAMP WIRE 5/8	2
51	3-485-010001	FLAP, MUD	2
52	3-720-010042	SPRING AIR 6-1/2	1
53	3-762-010017	CLAMP, MUD FLAP	2
54	622-3511-008	WASHER, FLAT 3/4	10
55	900-54-079	PILOT VALVE	1
56	107600	AXLE WELDMENT A/R D2212-SPG (PRIOR 7/1/99)	2
	108844	AXLE WELDMENT A/R D2212-SPG (AFTER 7/1/99)	2
	109180	AXLE WELDMENT A/R D2512-SPG	2
	109181	AXLE WELDMENT A/R D2216-SPR (FOR PARTS BREAKDOWN, SEE PAGE 1-30)	1
57	111643	BUSHING INDICATOR ROD	1
58	102836	CABLE HARNESS W/ ABS	1
59	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	19
60	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33)	2
	102364	SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33)	2
61	1-861-010032-14	WASHER, FLAT 1/2N	1
62	8-720-010013	SPRING, COMPRESSION REEL	2
63	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-28)	1
64	109177	CONTROL KIT AIR SUSP LWR (NOT SHOWN)(SEE PG 1-29)	1
65	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2

REFER TO

UNDERCARRIAGE - TANDEM AXLE

DRAWINGS ON PAGES 1-20 AND 1-21

FOR SIMILAR INFORMATION

Figure 1-13 U/C Assembly, Air Ride Suspension, Triple
(1 of 2)

REFER TO

UNDERCARRIAGE - TANDEM AXLE

DRAWINGS ON PAGES 1-20 AND 1-21

FOR SIMILAR INFORMATION

Figure 1-14 U/C Assembly, Air Ride Suspension, Triple
(2 of 2)

UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	109077	SUSP ASSY A/R 950-12 2212-77T	
	109151	SUSP ASSY A/R 950-15 2212-77T	
	109346	SUSP ASSY A/R 930-14 2212-77T	
	109347	SUSP ASSY A/R 950-12 2216-75T	
	109348	SUSP ASSY A/R 950-14 2216-77T	
	109349	SUSP ASSY A/R 950-15 2216-75T	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	15
2	1-510-010003-09	NUT, FLANGE HD SERRATED 1/2-13	2
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
6	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
7	1-512-010007-03	NUT, HEX 10-24	6
8	1-512-010007-05	NUT, HEX 1/4-20 GRB	4
9	108964	RING RETAINING STD DUTY (PRIOR 9/21/99)	6
	1-630-010021-02	RING RETAINING STD. DUTY (AFTER 9/21/99)	6
10	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
11	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
12	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
13	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8 GR5	4
14	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
15	1-654-010150-05	SCREW, SET SQ HD CP PNT 5/8 X 2	2
16	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
17	1-656-010003051	SCREW, RD HEAD MACH10-24 X 3/4	4
18	1-861-010032-07	WASHER, FLAT 1/4	11
19	1-861-010032-11	WASHER, FLAT 3/8W	28
20	1-861-010032-19	WASHER, FLAT 5/8W	8
21	1-861-010032-21	WASHER, FLAT 3/4W	2
22	1-861-010034-07	WASHER, SPLIT LOCK 10	6
23	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
24	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
25	107-0039	SCREW SELF-TAP 10 X 3/4 TYPE B	4
26	107470	NUT, FLANGE HEAD SPIRALOCK 3/8-16	2
27	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
28	107588	PLATE WELDMENT LIFT GUIDE	1
29	107591	ROD WELDMENT SPRING TENSION BUMPER	2
30	107594	MOUNT BUMPER ENERGY PAK	2
31	108996	UNDERCARRIAGE WELDMENT 950	1
32	107732	DOCK LIFT ARM WELDMENT	1
33	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8	8
34	108724	SUPPORT E-CHAIN	1
35	108746	BRACKET, MUD FLAP	2
36	108933	BUSHING NARROW	4
37	108961	ROLLER ASSEMBLY 4"	4
38	109158	BEARING CAST BUMPER PIVOT	8

UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

ITEM	PART NO.	DESCRIPTION	QTY.
39	109175	ROD, INDICATOR U/C POSITION	1
40	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THR	2
41	108838	PIN, ROLLERS TAIL (PRIOR 9/21/99)	2
	109270	PIN, ROLLER HD SNAP RING (AFTER 9/21/99)	2
42	109524	BUMPER WELDMENT L TAIL	1
43	109844	NUT, HEX ACORN 1/2-13	1
44	109895	WASHER	2
45	2-557-010045	FRONT PIN SPRING CLAMP DRILL	2
46	2-684-010001	SHIM ROCK SHAFT BEARING	4
47	2-684-010045	SHIM ROCKSHAFT BEARING	4
48	2-720-010008	SPRING	2
49	239-9076-2	CLAMP 5/16	2
50	239-9076-5	CLAMP WIRE 5/8	2
51	3-485-010001	FLAP, MUD 21	2
52	3-720-010042	SPRING AIR 6-1/2	1
53	3-762-010017	CLAMP, MUD FLAP	2
54	622-3511-008	WASHER, FLAT 3/4	10
55	900-54-079	PILOT VALVE	1
56	107600	AXLE WELDMENT A/R D2212-SPG (PRIOR 6/22/99)	2
	108844	AXLE WELDMENT A/R D2212-SPG (AFTER 6/22/99)	2
	109075	AXLE WELDMENT A/R D2212-SPG (PRIOR 6/22/99)	1
	109076	AXLE WELDMENT A/R D2212-SER (AFTER 6/22/99)	1
	109181	AXLE WELDMENT A/R D2216-SPR	2
	109187	AXLE WELDMENT A/R D2216-SER (FOR PARTS BREAKDOWN, SEE PAGE 1-30)	1
57	111643	BUSHING INDICATOR ROD	1
58	102836	CABLE HARNESS W/ ABS	1
59	1-796-010004-02	TIE, STRAP, PLASTIC	19
60	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33)	2
	102364	SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33)	2
61	1-861-010032-14	WASHER, FLAT 1/2N	1
62	8-720-010013	SPRING, COMPRESSION REEL (USED ON 109151, 109346, 109348, 109349)	2
63	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-28)	1
64	109177	CONTROL KIT AIR SUSP LWR (SEE PAGE 1-29)	1
65	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2

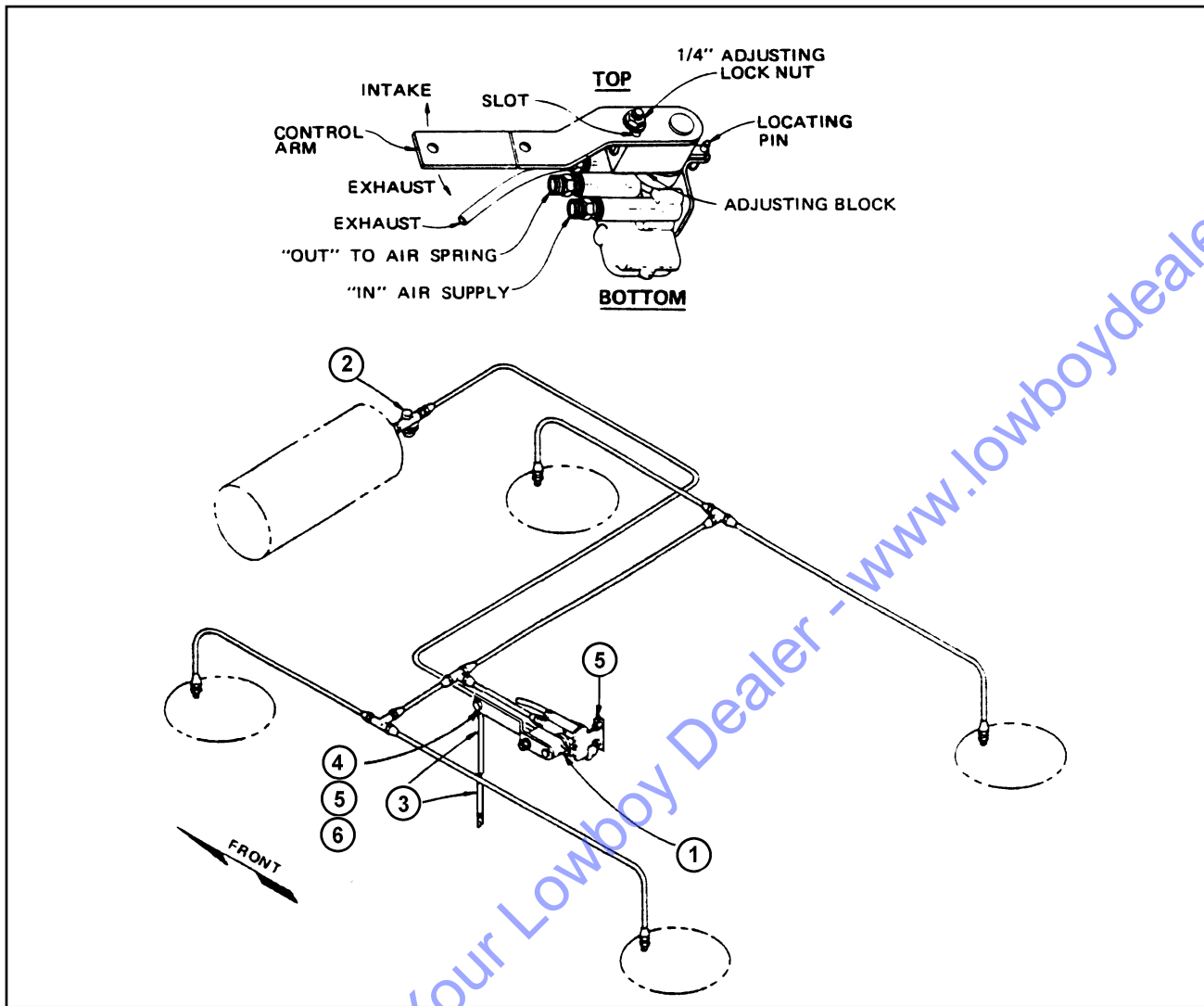


Figure 1-15 Air Control Kit

AIR CONTROL KIT

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	481 00 224	SRK - 167 KIT (ADJ. LINK ASSY)	1
4	930 02 349	CAP SCREW 1/4-20 X 3/4	2
5	934 00 060	LOCK NUT 1/4-20	2
6	941 00 119	DECAL (OPERATING)	1
7	941 00 466	HEIGHT CONTROL VALVE INSTRUCTIONS	1

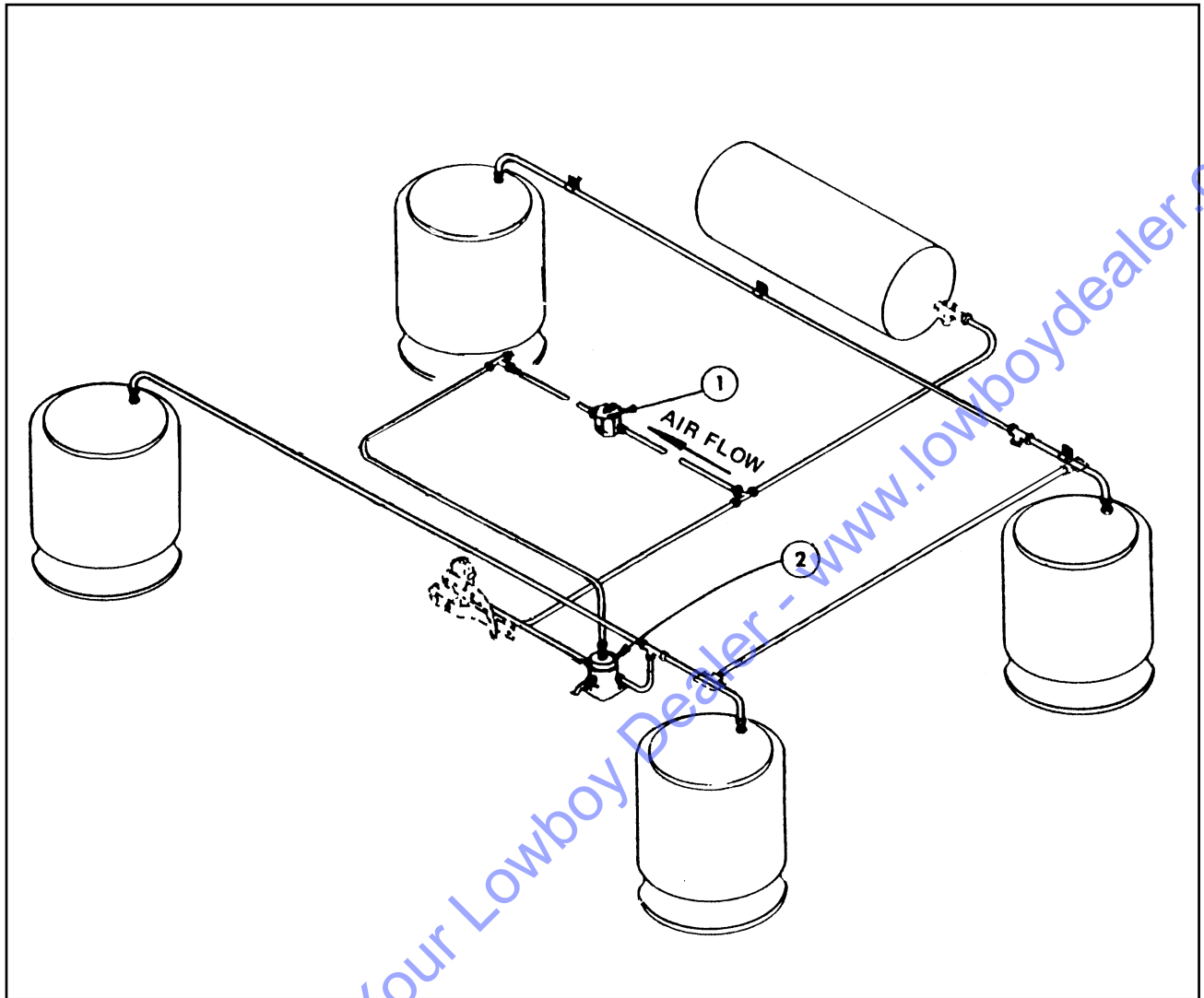


Figure 1-16 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	109177	CONTROL KIT, AIR SUSP LOWER	
1	900 54 088	VALVE MANUALLY OPERATED	
2	900 54 079	PILOT VALVE	
3	900 44 207	DECAL (NOT SHOWN)	

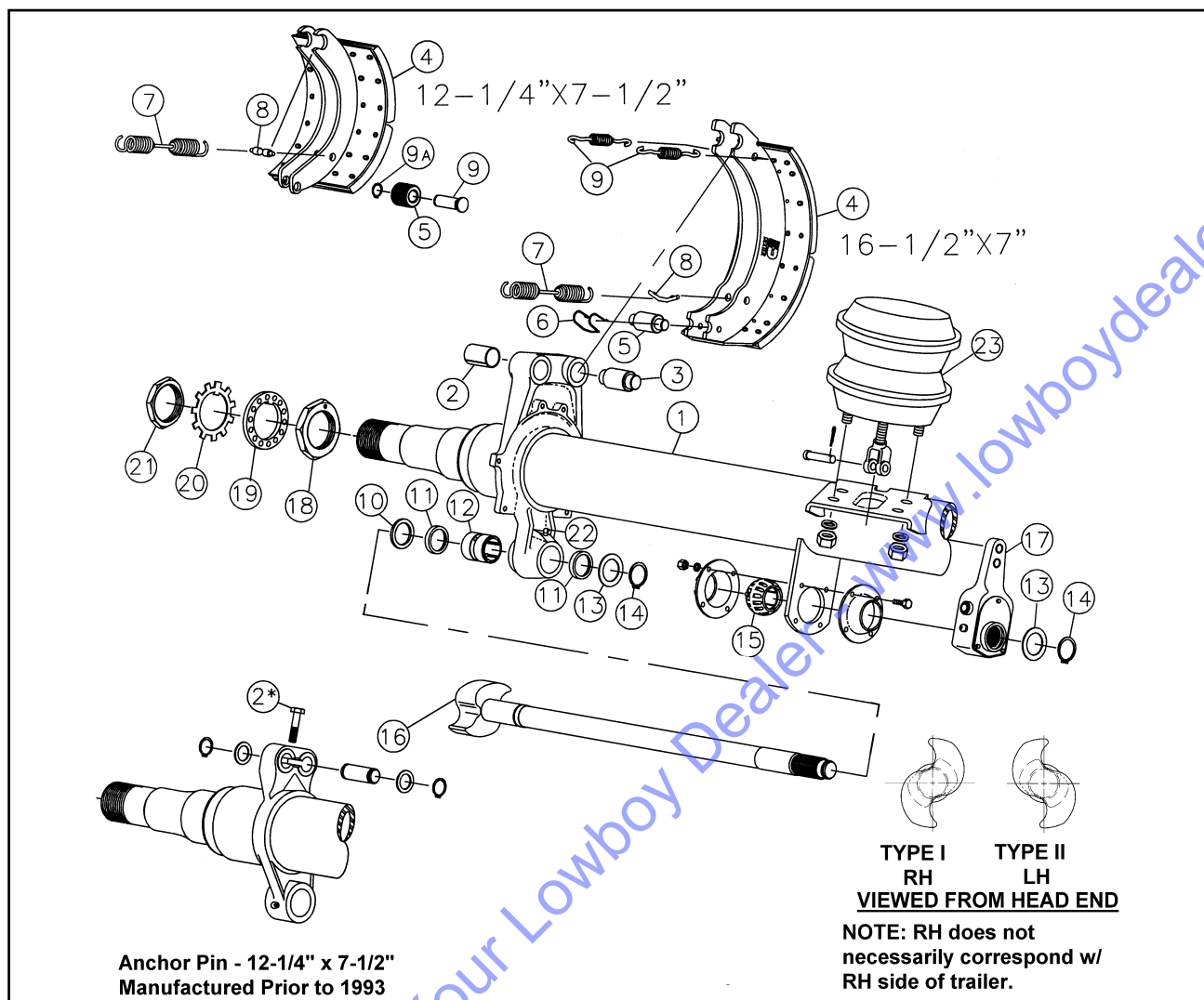


Figure 1-17 Axle and Brake Assembly

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY
	3-042-010130-04	AXLE 12.25X7.5 SPG BRK 22.5K 76 TRK	
	101529	AXLE 12.25X7.5 SPG BRK 22.5K 77 TRK	
	109073	AXLE 12.25X7.5 SER BRK 22.5K 76 TRK	
	109074	AXLE 12.25X7.5 SER BRK 22.5K 77 TRK	
	109178	AXLE 12.25X7.5 SPG BRK 25K 77 TRK	
	109179	AXLE 16.5 X 7 SPG BRK 22.5K 75 TRK	
	109183	AXLE 16.5 X 7 SER BRK 22.5K 75 TRK	
1*	D-2212-76	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2212-77	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2512-77	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	
	D-2216-75	BEAM W/ BRACKETS (16.5 X 7 BRAKE)	
	**K71-098-00	BRAKE SHOE HDWR KIT(12.25X7.5)	
	**K71-136-00	BRAKE SHOE HDWR KIT (16.5 X 7) (KITS INCL. ITEMS 2, 3, 5, 6, 7, 8, & 9)	
2**	007-137-00	BOLT, ANTI-ROTATION (12.25 X 7.5 BRAKE)	2
	014-068-00	BUSHING, ANCHOR PIN (12.25 X 7 BRAKE)	4
	014-068-00	BUSHING, ANCHOR PIN (16.5 X 7 BRAKE)	4

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY
3**	056-011-00	PIN, ANCHOR (12.25 X 7.5 BRAKE)	4
	056-017-00	PIN, ANCHOR (16.5 X 7 BRAKE)	4
4	040-320-01	BRAKE SHOE AND LINING (12.25 X 7.5 BRAKE)	4
	040-175-02	BRAKE SHOE, LINING, & ROLLER, LH (12.25 X 7.5 BRAKE)	2
	040-175-03	BRAKE SHOE, LINING, & ROLLER, RH (12.25 X 7.5 BRAKE)	2
	K71-133-00	BRAKE BLOCK KIT -LINING & RIVETS(12.25 X 7.5 BRAKE)	4
	040-180-00	BRAKE SHOE AND LINING (16.5 X 7 BRAKE)	4
	040-180-01	BRAKE SHOE, LINING, ROLLER & RETAINER (16.5X7 BRK)	4
	K71-138-00	BRAKE BLOCK KIT -LINING AND RIVETS (16.5 X 7 BRAKE)	4
5**	014-057-00	ROLLER, KNURLED (12.25 X 7.5 BRAKE)	4
	014-065-00	ROLLER, KNURLED (16.5 X 7 BRAKE)	4
6**	005-073-00	WASHER, ANCHOR PIN (12.25 X 7.5 BRAKE)	8
	071-122-00	RETAINER, ROLLER (16.5 X 7 BRAKE)	4
6A**	069-019-00	RETAINER, ANCHOR PIN(12.25 X 7.5 BRAKE ONLY)	8
7**	046-092-00	SPRING, SHOE RETURN (12.25 X 7.5 BRAKE)	2
	046-096-00	SPRING, SHOE (16.5 X 7 BRAKE)	2
8**	056-012-00	RETAINER, PIN SHOE RETURN SPRG(12.25 X 7.5 BRAKE)	4
	056-018-00	RETAINER, RETRACTOR SPRING (16.5 X 7 BRAKE)	4
9**	056-010-00	PIN, SHOE ROLLER (12.25 X 7.5 BRAKE)	4
	046-097-00	SPRING, SHOE KEEPER (16.5 X 7 BRAKE ONLY)	4
9A**	069-018-00	RETAINER ROLLER PIN (12.25 X 7.5 BRAKE ONLY)	4
	***K71-101-00	CAMSHAFT REPAIR KIT (12.25 X 7.5) (ITEMS 10-15, & 22)	
	***K71-135-00	CAMSHAFT REPAIR KIT (16.5 X 7) (ITEMS 10-15, & 22)	
10***	005-074-00	D" WASHER (12.25 X 7.5 BRAKE)	2
	005-096-00	WASHER CAMSHAFT (16.5 X 7 BRAKE)	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2
13***	005-075-00	WASHER CAMSHAFT(12.25 X 7.5 BRAKE)	4
	005-097-00	WASHER CAMSHAFT(16.5 X 7 BRAKE)	4
14***	069-020-00	RETAINER CAMSHAFT	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-188-05	CAMSHAFT, 23-3/8" LH(12.25X7.5 BRK, 76/77 TRK)	1
	034-189-05	CAMSHAFT, 23-3/8" RH(12.25X7.5 BRK, 76/77 TRK)	1
	034-192-08	CAMSHAFT, 25" LH (16.5 X 7 BRAKE, 75 TRK)	1
	034-193-08	CAMSHAFT, 25"RH (16.5 X 7 BRAKE, 75 TRK)	1
17	055-040-07	SLACK ADJUSTER, AUTOMATIC (12.25 X 7.5 BRAKE)	2
	055-040-04	SLACK ADJUSTER, AUTOMATIC (16.5 X 7 BRAKE)	2
18	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	NUT, OUTER SPINDLE	2
22***	061-006-00	FITTING, GREASE 45°	2
23	034-058-07	CHAMBER, BRAKE (12.25 X 7.5 SPRING BRAKE)	2
	034-057-05	CHAMBER, BRAKE (12.25 X 7.5 SERVICE BRAKE)	
	034-058-01	CHAMBER, BRAKE (16.5 X 7 SPRING BRAKE)	4
	034-057-01	CHAMBER, BRAKE (16.5 X 7 SERVICE BRAKE)	2

* WHEN ORDERING THE BEAM WITH SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE SERIAL NUMBER ON AXLE BEAM, MODEL, SIZE, TRACK LENGTH, BRAKE SIZE, AND CAMSHAFT LENGTH.

** 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: FOR HUB AND DRUM INFORMATION, SEE PAGES 1-43 TO 1-47.

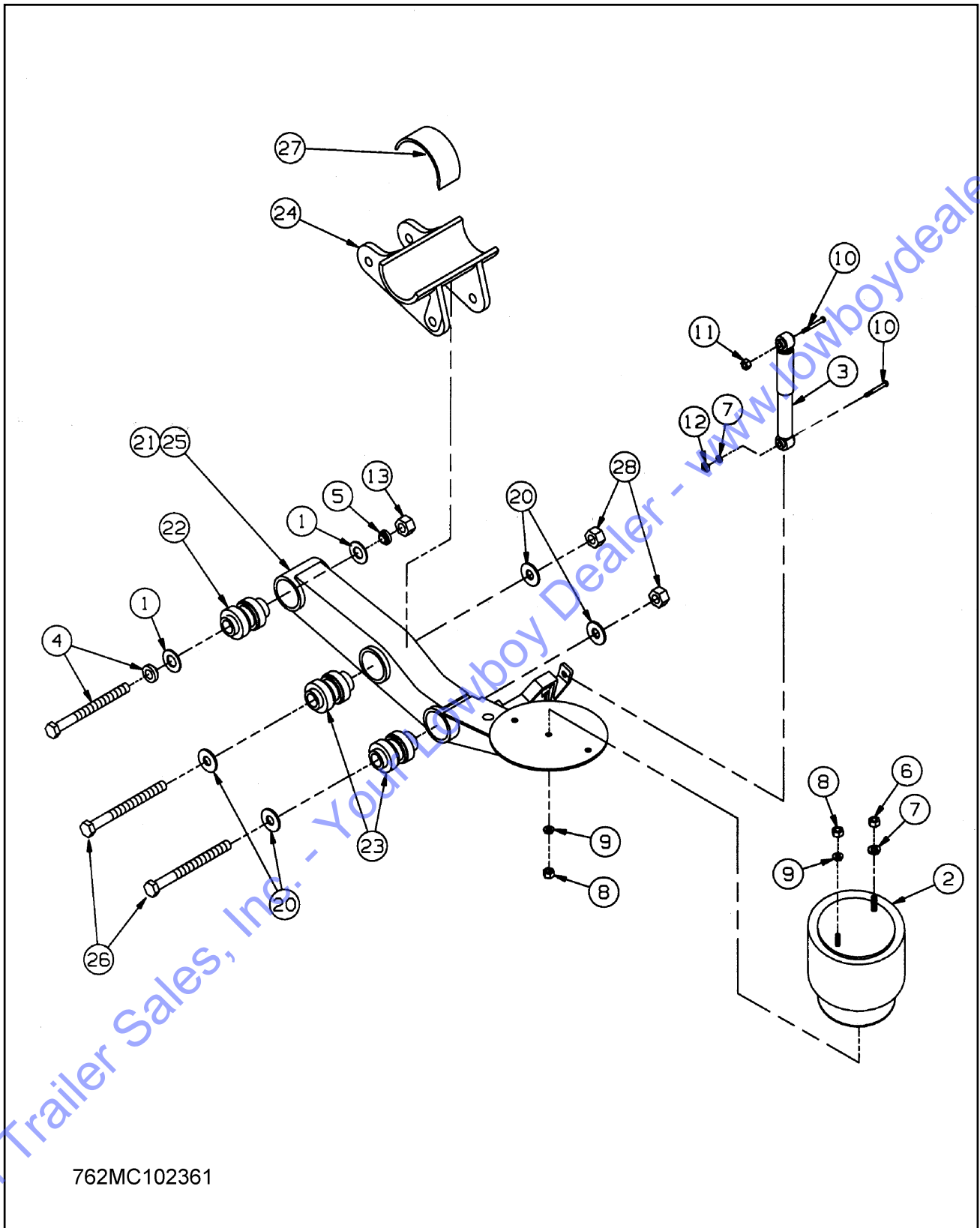


Figure 1-18 Suspension Hanger RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102364	SUSPENSION, ADJ. RLU-228-5.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228(INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	111020	AIR SPRING ASSEMBLY (RLU-228-3.5)	2
	111016	AIR SPRING ASSEMBLY (RLU-228-5.5)	
3	900 45 040	SHOCK (RLU-228-3.5)	2
	111017	SHOCK (RLU-228-5.5)	2
4	93908009	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	111007	ALIGN BLOCK	2
6	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	LOCK WASHER, 3/4"	4
8	1512-010007-09	HEX NUT, 1/2-13	4
9	1-816-010034-13	LOCK WASHER, 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934 00 492	LOCK NUT, 3/4" - 10	2
12	111022	3/4-10 SQUARE NUT	2
13	111008	LOCK NUT 1-1/8-7	2
14	111018	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	94100787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	94100685	LITERATURE SPEC (NOT SHOWN)	1
17	94100648	LITERATURE FORM 864 (NOT SHOWN)	1
18	94100590	LITERATURE LABEL (NOT SHOWN)	1
19	94100790	LITERATURE LABEL (NOT SHOWN)	1
	11005053	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	900 08 139	RUBBER BUSHING (FRONT PIVOT)	2
23	111011	RUBBER BUSHING (AXLE CONNECTION)	4
24	111012	AXLE ADAPTER ASSEMBLY	2
25	111014	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	111015	SAFETY STRAP	2
28	111008	LOCK NUT 1-1/8-7	4

NOTE: QUANTITIES LISTED ARE PER AXLE.

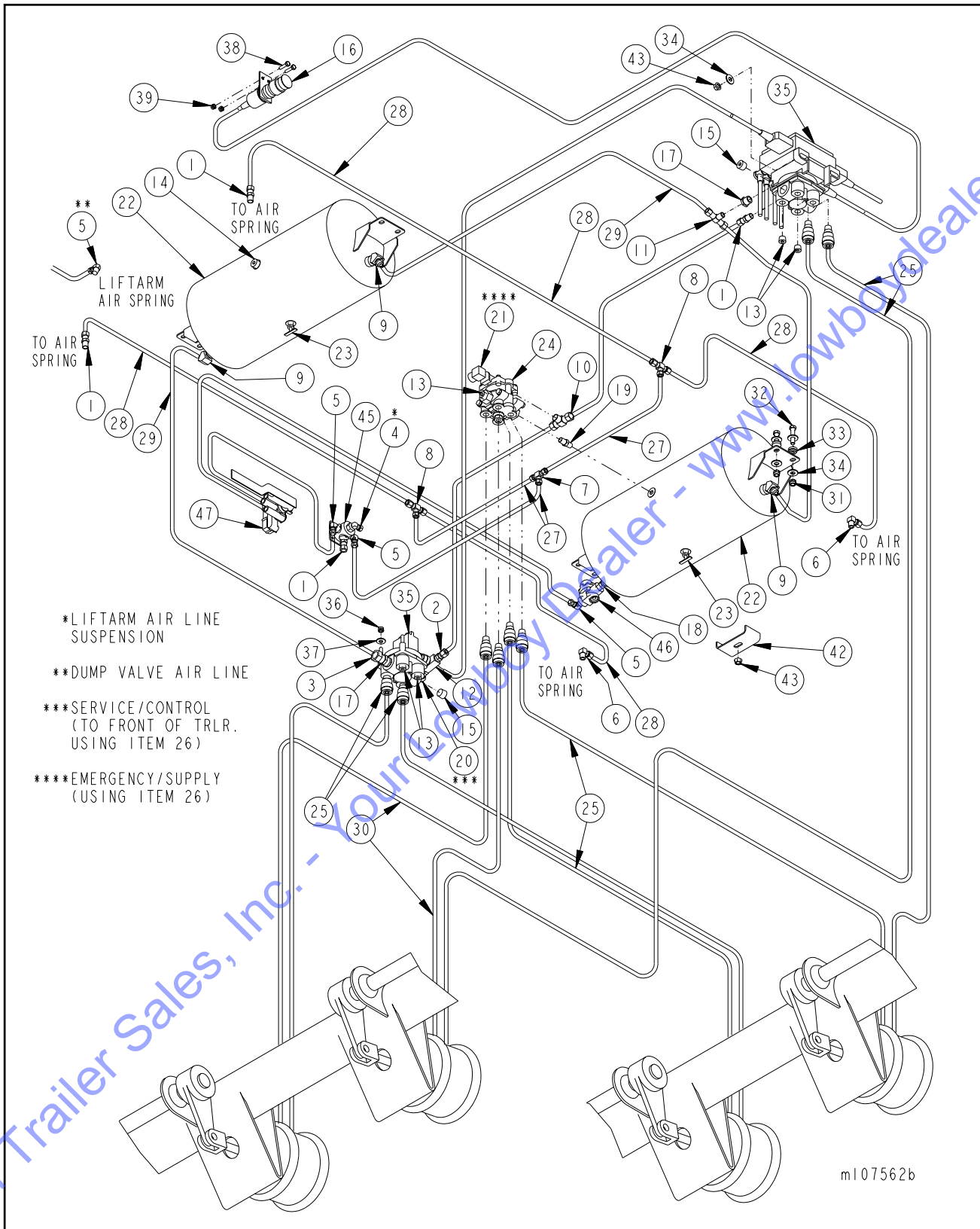


Figure 1-19 Spring Air Brake System w/ ABS, Tandem Axle

AIR BRAKE SYSTEM W/ ABS, TANDEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-297-010007-11	FITTING AIR	4
2	1-297-010007-12	FITTING AIR	1
3	1-297-010007-16	FITTING AIR	1
4	1-297-010008-05	FITTING AIR 90	1
5	1-297-010008-07	FITTING AIR 90	4
6	1-297-010008-18	FITTING AIR 90	2
7	1-297-010010-01	FITTING AIR UNION TEE	1
8	1-297-010010-04	FITTING AIR UNION TEE	2
9	1-297-010013-16	FITTING AIR	3
10	1-297-010015-07	FITTING AIR BRANCH TEE 3/8-3/8	1
11	1-297-010015-11	FITTING AIR BRANCH TEE 1/2-1/2	1
12	1-297-010017-03	FITTING AIR M/BR	1
13	1-560-010002-03	PIPE PLUG 3/8	5
14	1-560-010002-04	PIPE PLUG 1/2	3
15	1-560-010002-05	PIPE PLUG 3/4-14	2
16	101852	DIAGNOSTIC CABLE W/ SWITCH (SEE PAGE 1-41)	1
17	118-2659-9	BUSHING 1/2 X 3/4	2
18	2083-8-4S	NIPPLE HEX 1/2 - 1/4	1
19	2083-8-8S	NIPPLE 1/2 - 1/2	1
20	2088-6-6S	ADAPTER 45	1
21	2089-6-6S	ADAPTER 90	1
22	3-780-010002	TANK AIR	2
23	56D4	AIR TANK DRAIN COCK	2
24	758-181	VALVE RELAY EMERGENCY	1
25	101003	HOSE AIR 3/8 X 48	6
26	109209	HOSE, AIR 3/8 X 244	2
27	1-833-010001	TUBING NYLON 1/4	AR
28	1-833-010002	TUBING NYLON 3/8	AR
29	1-833-010003	TUBING NYLON 1/2	AR
30	1-384-010038038	HOSE AIR	2
31	1-512-010005-05	NUT, HEX LOCK 3/8-16	14
32	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
33	805-2	STEP BUSHING	16
34	1-861-010032-11	WASHER FLAT 3/8W	10
35	101420	BRAKE KIT ROCKWELL, ABS (SEE PAGE 1-41)	1
36	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
37	1-861-010032-09	WASHER FLAT 5/16W	2
38	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	2
39	1-512-010005-01	NUT HEX LOCK 1/4-20	2
40	1-861-010032-07	WASHER FLAT 1/4-20	2
41	1-861-010034-09	WASHER SPLIT LOCK 1/4	2
42	103817	CLAMP HOSE	5
43	1-510-010001	NUT FLANGE LOCK 3/8-16	3
44	1-394-010001	HOSE ABRASION SLEEVE X 2 (NOT SHOWN)	4
45	900-54-079	PILOT VALVE	REF
46	905-54-107	AIR PRESSURE PROTECTION VALVE	REF
47	900-54-007	HEIGHT CONTROL VALVE	REF

REFER TO AIR BRAKE SYSTEM W/ABS

- TANDEM AXLE DRAWINGS

ON PAGE 1-34

FOR SIMILAR INFORMATION

Figure 1-20 Spring Air Brake System w/ ABS, Triple Axle

AIR BRAKE SYSTEM W/ ABS, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-297-010007-11	FITTING AIR	4
2	1-297-010007-12	FITTING AIR	1
3	1-297-010007-16	FITTING AIR	1
4	1-297-010008-05	FITTING AIR 90	1
5	1-297-010008-07	FITTING AIR 90	4
6	1-297-010008-18	FITTING AIR 90	4
7	1-297-010010-01	FITTING AIR UNION TEE	1
8	1-297-010010-04	FITTING AIR UNION TEE	2
9	1-297-010013-16	FITTING AIR	3
10	1-297-010015-07	FITTING AIR BRANCH TEE 3/8-3/8	1
11	1-297-010015-11	FITTING AIR BRANCH TEE 1/2-1/2	2
12	1-297-010017-03	FITTING AIR M/BR	1
13	1-560-010002-03	PIPE PLUG 3/8	3
14	1-560-010002-04	PIPE PLUG 1/2	6
15	1-560-010002-05	PIPE PLUG 3/4-14	2
16	101852	DIAGNOSTIC CABLE W/ SWITCH (SEE PAGE 1-41)	1
17	118-2659-9	BUSHING 1/2 X 3/4	2
18	2083-8-4S	NIPPLE HEX 1/2 - 1/4	1
19	2083-8-8S	NIPPLE 1/2 - 1/2	1
20	2088-6-6S	ADAPTER 45	1
21	2089-6-6S	ADAPTER 90	2
22	3-780-010002	TANK AIR	3
23	56D4	AIR TANK DRAIN COCK	3
24	758-181	VALVE RELAY EMERGENCY	1
25	101003	HOSE AIR 3/8 X 48	6
26	112244	HOSE, AIR 3/8 X 268	1
27	1-833-010001	TUBING NYLON 1/4	AR
28	1-833-010002	TUBING NYLON 3/8	AR
29	1-833-010003	TUBING NYLON 1/2	AR
30	1-384-010038038	HOSE AIR	4
31	1-512-010005-05	NUT, HEX LOCK 3/8-16	18
32	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	12
33	805-2	STEP BUSHING	24
34	1-861-010032-11	WASHER FLAT 3/8W	18
35	103860	BRAKE KIT ROCKWELL, ABS (SEE PAGE 1-41)	1
36	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
37	1-861-010032-09	WASHER FLAT 5/16W	2
38	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	3
39	1-512-010007-05	NUT HEX 1/4-20	2
40	1-861-010032-07	WASHER FLAT 1/4-20	2
41	1-861-010034-09	WASHER SPLIT LOCK 1/4	2
42	103817	CLAMP HOSE	5
43	1-510-010001	NUT FLANGE LOCK 3/8-16	3
44	1-394-010001	HOSE ABRASION SLEEVE X 2 (NOT SHOWN)	4
45	900-54-079	PILOT VALVE	REF
46	905-54-107	AIR PRESSURE PROTECTION VALVE	REF
47	900-54-007	HEIGHT CONTROL VALVE	REF
48	112245	HOSE, AIR 3/8 X 276	2
49	1-297-010010-03	FITTING, AIR UNION TEE	6
50	103738	HOSE, AIR 3/8 X 100	2

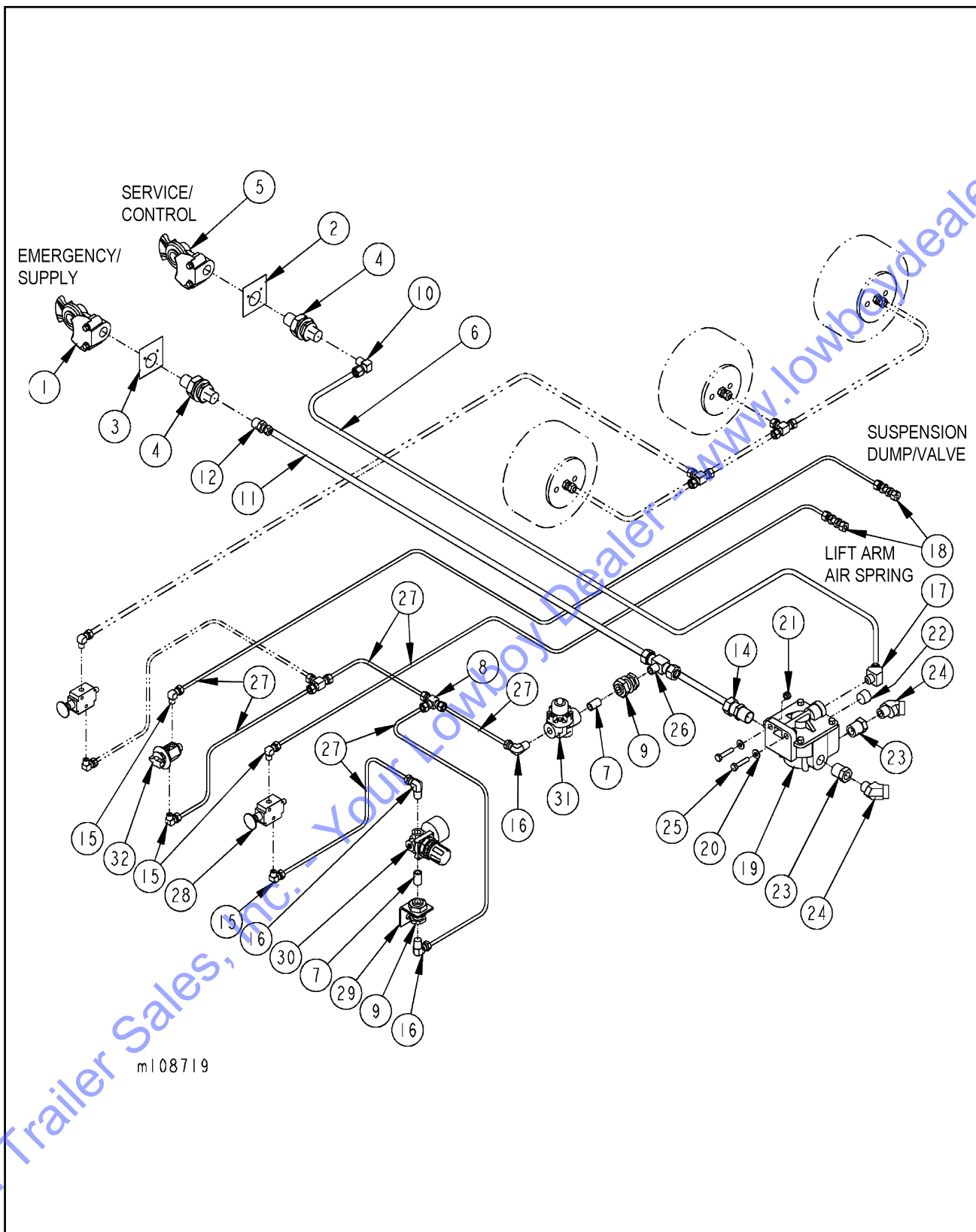


Figure 1-21 Air System ABS

AIR SYSTEM, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	108719	AIR SYSTEM	
1	108801	GLADHAND RED AIR	1
2	55B61-7	TAG SERVICE LINE	1
3	55B61-6	TAG EMERGENCY LINE	1
4	55B61	FRAME UNION	2
5	108802	GLADHAND BLUE AIR	1
6	1-833-010002	TUBING NYLON 3/8 OD	AR
7	1-297-010020-02	FITTING BR PIPE	2
8	1-297-010010-01	FITTING, AIR UNION TEE 1/4	1
9	1-297-010022-02	FITTING, AIR ANCHOR COUPLING	2
10	1-297-010008-18	FITTING AIR 90	1
11	1-833-010003	TUBING NYLON 1/2 OD	AR
12	1-297-010007-14	FITTING AIR	1
14	1-297-010007-16	FITTING AIR	1
15	1-297-010008-05	FITTING AIR 90	4
16	1-297-010008-07	FITTING AIR 90	3
17	1-297-010013-12	FITTING AIR 45	1
18	1-297-010014-02	FITTING AIR BULKHEAD UNION 1/4	2
19	3-843-010038	VALVE, AIR RELAY FAST AIR BAL	1
20	1-861-010032-06	WASHER, FLAT 1/4	2
21	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2
22	1-560-010002-04	PLUG, PIPE	1
23	2081-8-6S	REDUCER	2
24	2088-6-6S	ADAPTER 45	2
25	1-654-010027-7	SCREW HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2
26	1-297-010015-09	FITTING AIR, BR TEE	1
27	1-833-010001	TUBING NYLON 1/4 OD	AR
28	107887	VALVE AIR PUSH BUTTON	1
29	3-120-010445	BRACKET PRESSURE REGULATOR	1
30	3-626-010004	REGULATOR AIR PRESSURE	1
31	905-54-107	BRAKE PROTECTION VALVE	1
32	900-54-088	VALVE, MANUALLY OPERATED	1

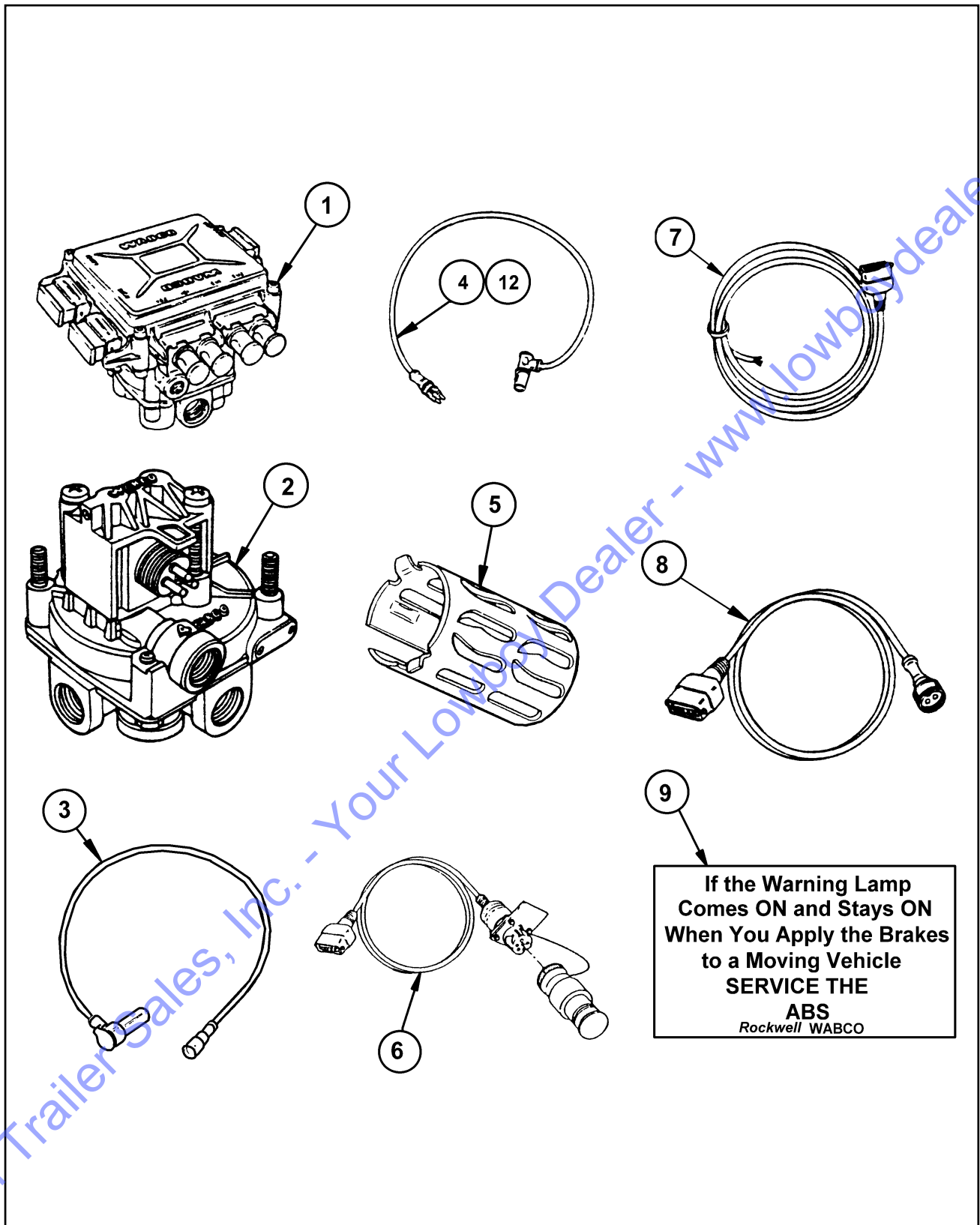
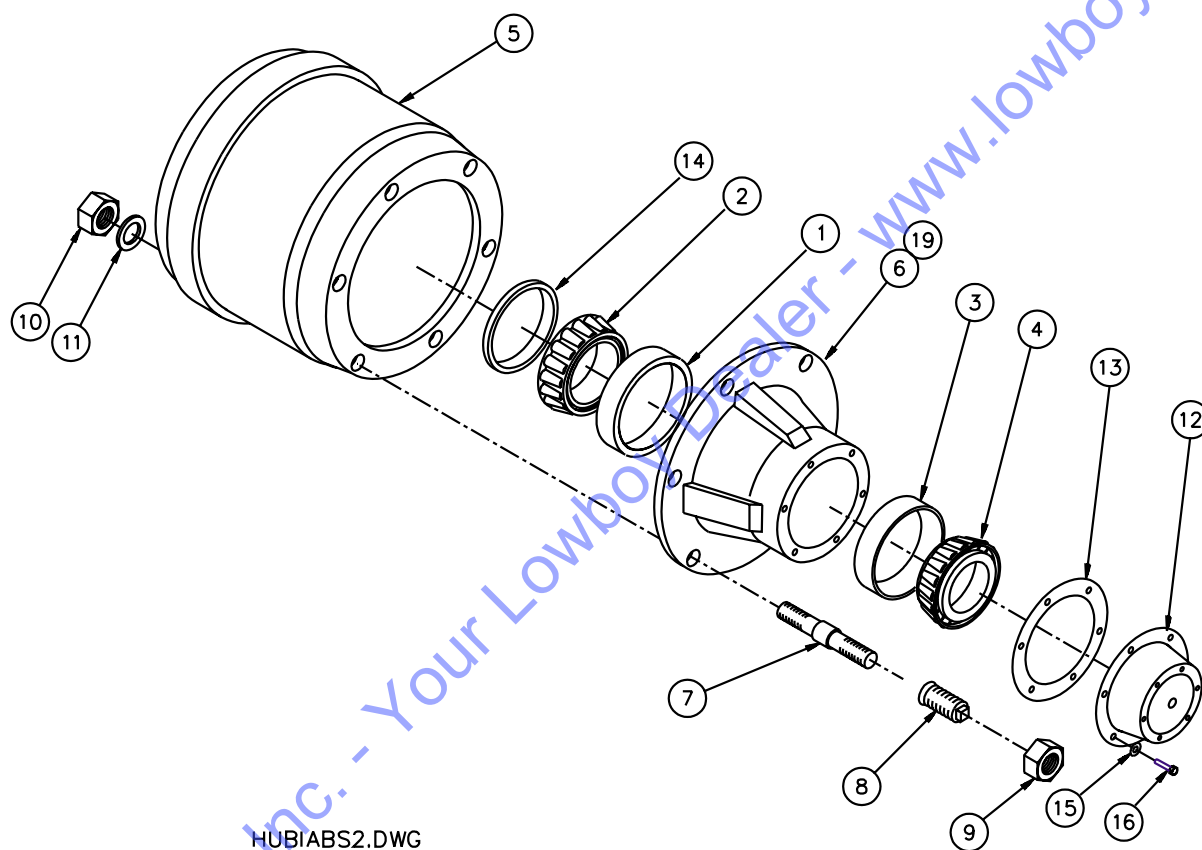


Figure 1-22 Brake Kit, Rockwell ABS

BRAKE KIT ROCKWELL ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	101420	BRAKE KIT, ROCKWELL ABS, 4S/2M (INCL ITEMS 1,2,4,7-10)	
	103860	BRAKE KIT ROCKWELL ABS 4S/2M-610 (INCL ITEMS 1,2,4,7-10,12)	
1	101845	ECU/VALVE ASSEMBLY	1
2	101846	ABS RELAY VALVE	1
3	101847	ABS SENSOR CABLE	4
4	101848	SENSOR EXTENSION CABLE	*4,2
5	101849	ABS SENSOR SPRING CLIP	4
6	101852	DIAGNOSTIC CABLE W/ SWITCH	1
7	101853	POWER CABLE 4 COND.	1
8	101854	CONNECTION CABLE FOR ABS RELAY	1
9	101855	WARNING LAMP LABEL	1
10	—	INSTALLATION GUIDE (NOT SHOWN)	1
11	104551	ABS MAINTENANCE MANUAL NO. 33 (NOT SHOWN)	1
12	103861	SENSOR EXTENSION CABLE	2

* 1ST QUANTITY LISTED IS FOR P/N 101420; 2ND QUANTITY LISTED IS FOR P/N 103860.



HUBIABS2.DWG

Figure 1-23 Inboard Ball Seat Mount Hub and Drum

INBOARD BALL SEAT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-406-010044	HUB/DRUM ASSY, 6B 12-1/4, BSN-LH (ITEMS 1-11) (TRIPLE ONLY)	1
	3-406-010045	HUB/DRUM ASSY, 6B 12-1/4, BSN-RH (ITEMS 1-11) (TRIPLE ONLY)	1
	103245	HUB/DRUM ASSY, 6B,12-1/4, BSN-LH W/ ABS (ITEMS 1-11, 19)	2
	103246	HUB/DRUM ASSY, 6B,12-1/4, BSN-RH W/ ABS (ITEMS 1-11, 19)	2
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	63635	INBOARD MOUNTED BRAKE DRUM (6 BOLT)	1
6	1056	HUB (6 BOLT)	1
7	139913	STUD, L.H. (6 BOLT)	6
	139902	STUD, R.H. (6 BOLT)	6
8	107083	CAPNUT, INNER, L.H. (6 BOLT)	6
	107082	CAPNUT, INNER, R.H. (6 BOLT)	6
9	178921	CAPNUT, OUTER, L.H. (6 BOLT)	6
	178910	CAPNUT, OUTER, R.H. (6 BOLT)	6
10	75716	3/4-16 HEX LOCK NUT	6
11	257	FLAT WASHER	6
12	021-038-01 (4009)	CAP, HUB	1
13	071-124-00 (3067)	GASKET, OIL CAP	1
14	3-659-010012	SEAL	1
15	1-861-010034-10	WASHER SPLIT LOCK 5/16	6
16	1-654-010049-03	SCREW HEX HEAD CAP 5/16-18X3/4 GR5	6
17	3-870-010012	WHEEL, DISC 6.75X17.5 (NOT SHOWN)	1
18	TR573	VALVE STEM (NOT SHOWN)	
19	*	ABS TONE RING	1
20	1-843-010014	VALVE EXTENSION, STEM 3" (USED W/ 12-1/4" BRAKES) (NOT SHOWN)	1
21	3-406-010024	HUBODOMETER OPTIONS (NOT SHOWN)	
	C-353-L	HUBODOMETER AND BRACKET FOR 10R X 17.5 MOUNTING CAP	
	3-406-010062	HUBODOMETER FOR 215/75R17.5	
	3-161-010038	CAP, HUB FOR HUBODOMETER	

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

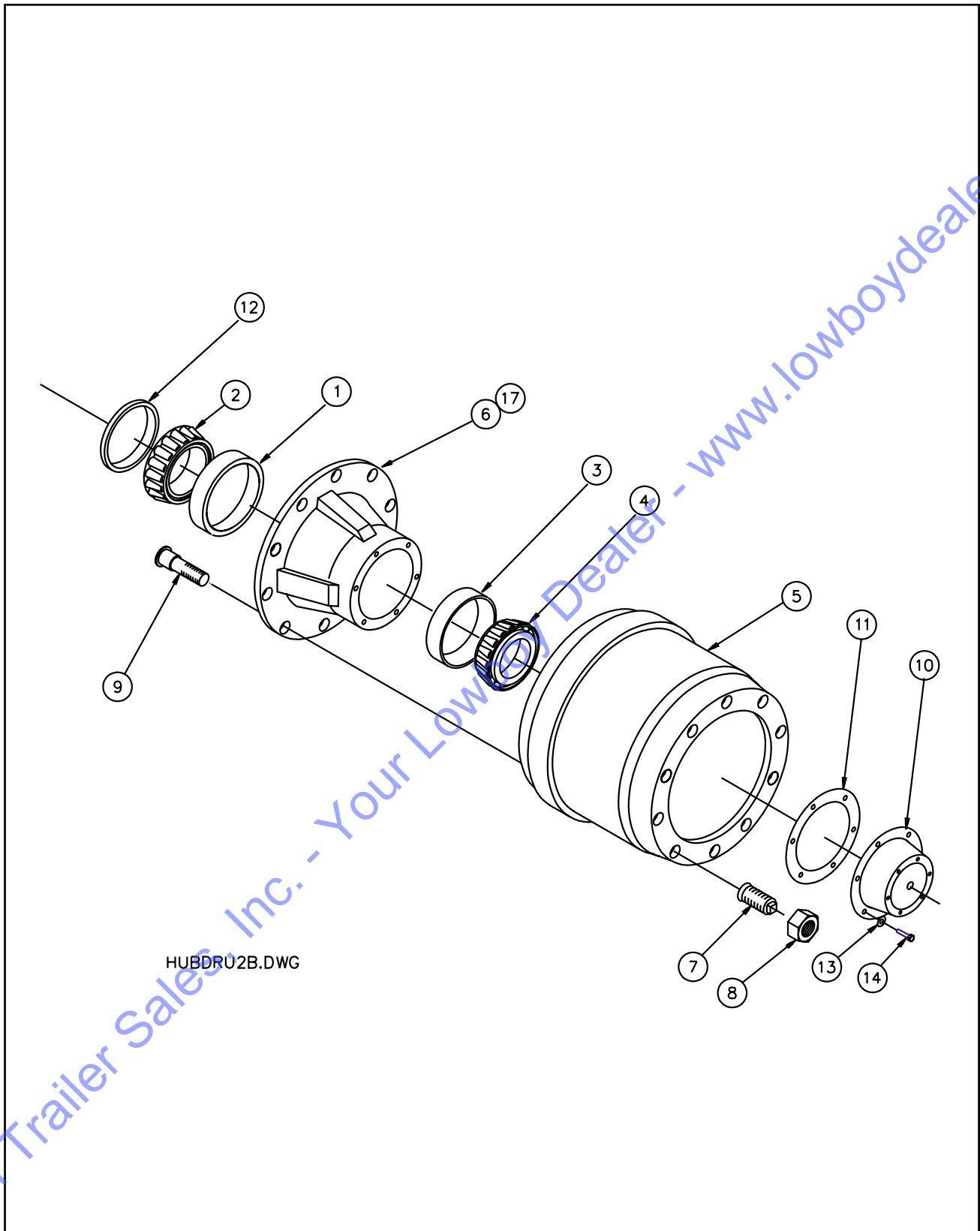


Figure 1-24 Outboard Ball Seat Mount Hub and Drum

OUTBOARD BALL SEAT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	108536	HUB/OB DRUM 10B, 16.5 BSN RH (ITEMS 1-11) (TRIPLE ONLY)	
	108537	HUB/OB DRUM 10B, 16.5 BSN LH (ITEMS 1-11) (TRIPLE ONLY)	
	108538	HUB/OB DRUM 10B, 16.5 BSN RH, ABS	
	108539	HUB/OB DRUM 10B, 16.5 BSN RH, ABS	
1	HM218210	INNER BEARING CUP	
2	HM218248	INNER BEARING CONE	
3	HM212011	OUTER BEARING CUP	
4	HM212049	OUTER BEARING CON	
5	66884	OUTBOARD MOUNTED CAST BRAKE DRUM	
6	2023	HUB 10 STUD	
	2023----T	HUB 10 STUD W/ TONE RING	
7	107083	CAPNUT, INNER LH (10 BOLT)	
	107082	CAPNUT, INNER RH (10 BOLT)	
8	178921	CAPNUT, OUTER LH (10 BOLT)	
	178910	CAPNUT, OUTER RH (10 BOLT)	
9	159183	STUD, LH	
	159184	STUD, RH	
10	021-038-01 (4009)	CAP, HUB	
11	071-124-00 (3067)	GASKET, OIL CAP	
12	3-659-010012	SEAL	
13	1-861-010034-10	WASHER SPLIT LOCK 5/16	
14	1-654-010049-03	SCREW, HEX HEAD CAP 5/16-18 X 3/4	
15	3-870-010014	WHEEL 7.5 X 22.5 BALL SEAT MOUNT DISC (NOT SHOWN)	
16	TR573	VALVE STEM (NOT SHOWN)	
17	*	ABS TONE RING	
		HUBODOMETER OPTIONS (NOT SHOWN)	
18	3-406-010023 C-353-L	HUBODOMETER AND BRACKET FOR 255/70RX22.5 STD. MOUNTING CAP	

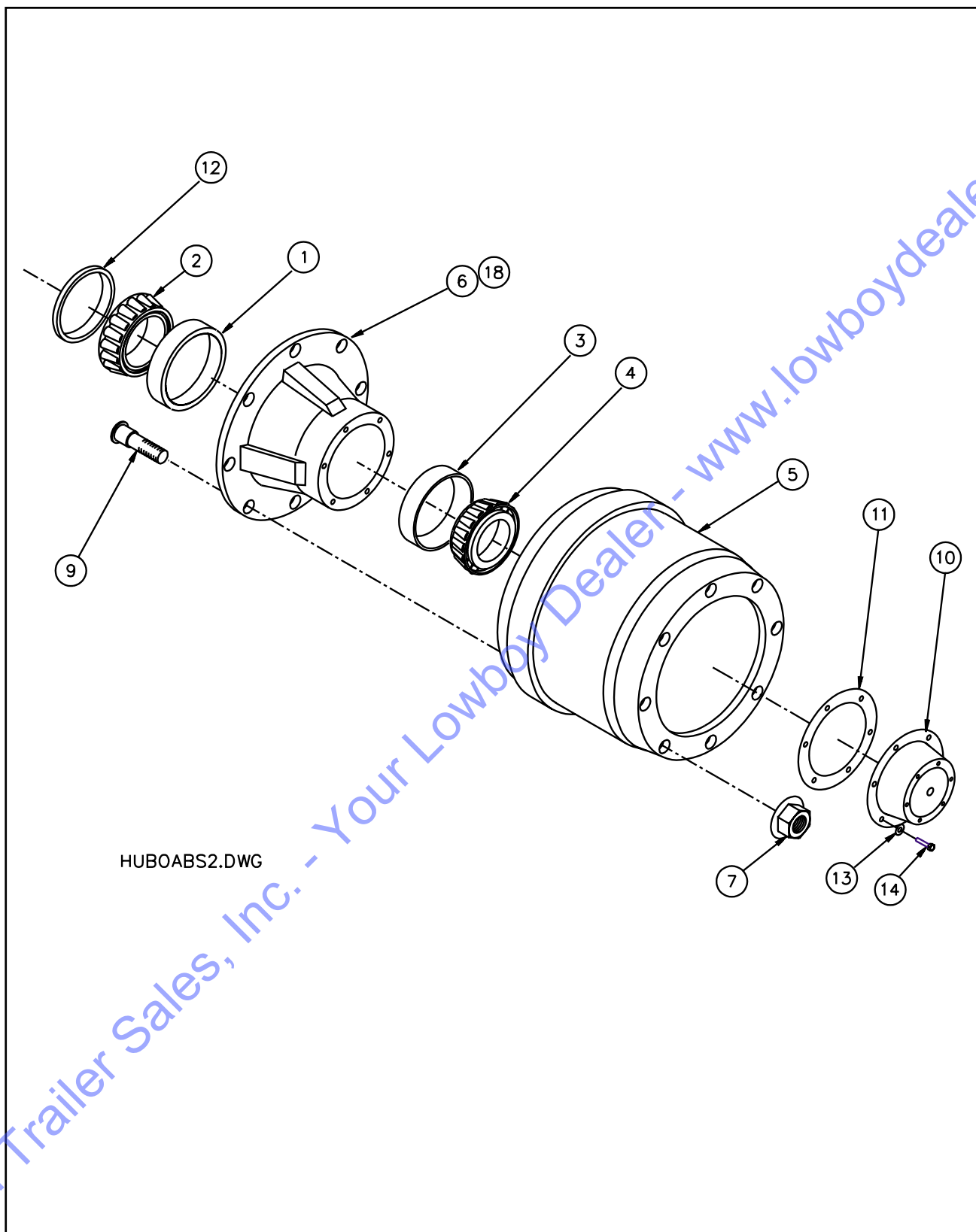


Figure 1-25 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-406-010061	HUB/DRUM ASSY 8 BOLT 12-1/4" PILOT MT	
	3-406-010065	HUB/DRUM ASSY 10 BOLT 16-1/2" PILOT MT	
	3-406-010067	HUB/DRUM ASSY 10 BOLT 16-1/2" PILOT MT, DISC	
	3-406-010076	HUB/DRUM ASSY 8 BOLT 12-1/4" PILOT,ABS (PRIOR 6/23/99)	
	108540	HUB/DRUM ASSY 8 BOLT 12-1/4" PILOT,ABS(AFTER 6/23/99)	
	103781	HUB/DRUM ASSY 10 BOLT 16-1/2" PILOT MOUNT, ABS	
	103782	HUB/DRUM ASSY AL/CF 16-1/2" PILOT MOUNT, ABS	
	103783	HUB/DRUM ASSY 16-1/2" LONG STUD, PILOT, ABS	
	105812	HUB/DRUM ASSY 12-1/4" LONG STUD, PILOT ABS	
	100400	HUB/DRUM ASSY 8 BOLT 12-1/4" PILOT MOUNT DISC	
	3-406-010071	HUB AL/DRUM CF, 16-1/2" PILOT MOUNT DISC	
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(66884)	OUTBOARD MOUNTED BRAKE DRUM (10 BOLT)	1
	63680	OUTBOARD MOUNTED BRAKE DRUM (8 BOLT)	1
	69996B	OUTBOARD MOUNTED CENTRIFUSE BRAKE DRUM	1
6	2023	HUB (10 BOLT) (USED W/ 3-406-010065 & 3-406-010067)	1
	110975(2023----T)	HUB W/ TONE RING (10 BOLT)(USED W/ 103781 & 103783)	1
	2027	HUB (8 BOLT)(USED W/ 3-406-010061 & 100400)	1
	112492(2027----T)	HUB W/ TONE RING (8 BOLT)(USED W/ 3-406-010076 & 105812)	1
	112493(2027----T80)	HUB W/ TONE RING (8 BOLT)(USED W/ 108540)	1
	2091	HUB (10 BOLT) (USED W/ 3-406-010071 & 103782)	1
7	179933	FLANGE NUT (10 BOLT)	10
	179955	FLANGE NUT (8 BOLT)	8
9	101162	STUD (USED WITH 3-406-010061, 3-406-010065, 3-406-010076, 103781, & 108540)	**8,10
	101160	STUD (USED WITH 3-406-010067, 103783, 100400, & 105812)	10
	102190	STUD (USED WITH 3-406-010071 & 103782)	10
10	021-038-01(4009)	CAP HUB	1
11	071-124-00(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 (10 BOLT)	1
		16-1/2" BRAKE (NOT SHOWN)	
	3-870-010106	WHEEL ALUM PILOT MT 22.5X7.50 (10 BOLT) (NOT SHOWN)	1
	3-870-010097	WHEEL 17.5X6.75 PILOT MT (8 BOLT)	1
		12-1/4" BRAKE (NOT SHOWN)	
	100402	WHEEL 17.5X6.75 ALUM PILOT MT (8 BOLT)	1
		12-1/4" BRAKE (NOT SHOWN)	
	112047	WHEEL AL PILOT 17.5 X 6.75 MACH (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C - ALUMINUM WHL (NOT SHOWN)	1
	TR545D	VALVE STEM - ALUMINUM WHL (NOT SHOWN)	1
17	1-843-010014	VALVE EXTENSION, STEM 3" (USED W/ 12-1/4" BRAKES)	1
		(NOT SHOWN)	
18	*	ABS TONE RING	1

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

** THE FIRST QUANTITY IS FOR THE 8 BOLT WHEEL, AND THE SECOND QUANTITY IS FOR THE 10 BOLT WHEEL.

NOTE: SEE PAGES 1-43 AND 1-45 FOR HUBODOMETER AND MOUNTING CAP PART NUMBERS.

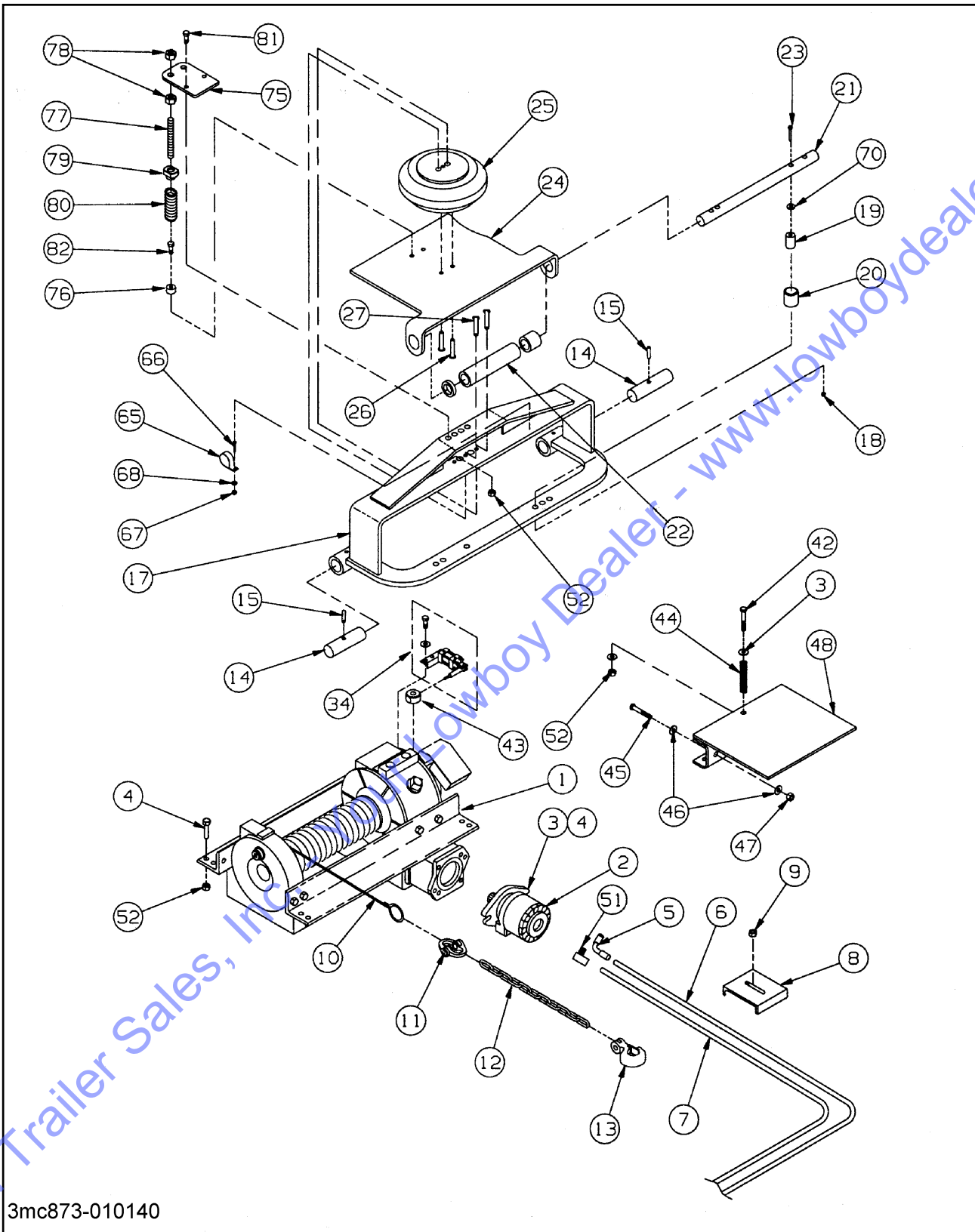


Figure 1-26 12K & 20K Upper Deck Winch (Braden)
(1 of 2)

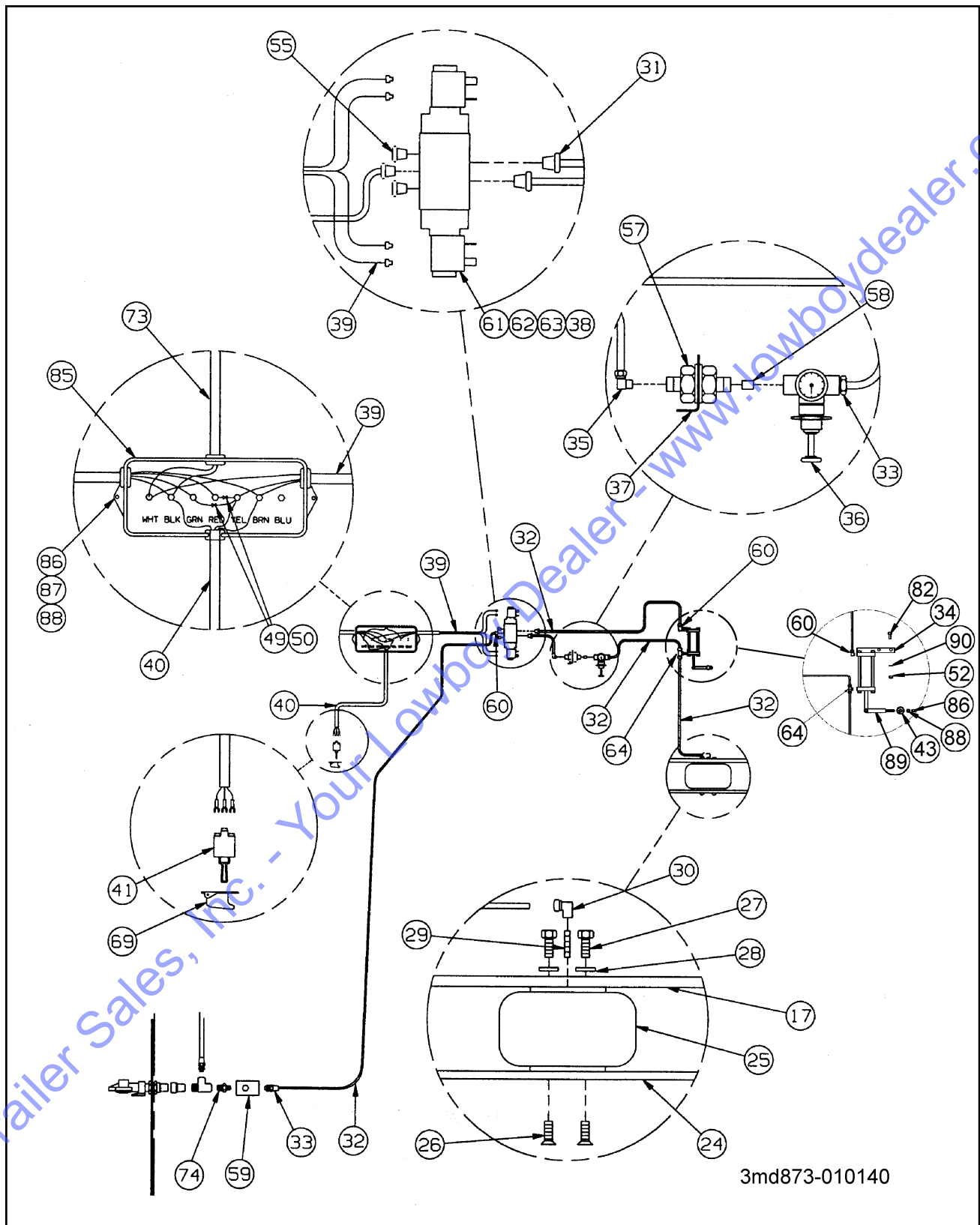


Figure 1-27 12K & 20K Upper Deck Winch (Braden)
(2 of 2)

12K & 20K UPPER DECK WINCH (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	
	3-873-010144	WINCH INSTALLATION 600-12K	
1	3-873-010123	WINCH ASSY 20K (SEE PAGE 1-58)	1
	3-873-010122	WINCH ASSY 12K (SEE PAGE 1-55)	1
2	3-481-010007	MOTOR HYD. (FOR 20K) (SEE PAGE 1-61)	1
	3-481-010006	MOTOR HYD. (FOR 12K) (SEE PAGE 1-61)	1
3	1-861-010032-15	WASHER, FLAT 1/2	2
4	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	2
5	202702-10-8S	ADAPTER STR.	1
6	1-397-010301170	HOSE ASSEMBLY	1
7	1-397-010302172	HOSE ASSEMBLY	1
8	2-181-010001	HOSE CLAMP	4
9	1-510-010001	NUT FLANGE LOCK 3/8-16	4
10	3-155-010017-1	CABLE (12K)60' W/ LOOP	1
	3-155-010017-4	CABLE (12K)85' W/ LOOP	1
	3-155-010018-1	CABLE (20K)60' W/ LOOP	1
	3-155-010018-6	CABLE (20K)85' W/ LOOP	1
11	3-174-010038	LINK	1
12	3-174-010039036	CHAIN	1
13	7HCGHT500	HOOK	1
14	3-557-010474	PIN, PIVOT	**2
15	1-647-010004255	SPRING PIN, SLOTTED TYPE	**2
16	3-125-010464	BRACKET WLDMT WINCH ROLLER (NOT SHOWN)	**1,****1
17	3-125-010465	BRACKET WLDMT WINCH TENS	*1,**1,***1
18	1-512-010005-13	NUT HEX LOCK 5/8-11 GR8	**2
19	3-150-010196	BUSHING, ROD ROLLER-600	**2
20	3-831-010172	TUBE, ROLLER SIDE	**2
21	102188	ROD, PIVOTING GUIDE (FOR 20K)	**1
	3-642-010150	ROD, ROLLER TOP (FOR 12K)	**1
22	3-831-010182	TUBE, ROLLER TOP - 600 (FOR 20K)	**2
	3-831-010151	TUBE, ROLLER TOP (FOR 12K)	**1
23	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11X5 GR5	**2
24	102187	PLATE, WINCH TENSIONER (FOR 20K)	*1
	3-873-010145	WINCH TENSIONER PLATE (FOR 12K)	*1
25	3-720-010042	SPRING, AIR 6-1/2	*1
26	1-654-010141-04	SCREW, HEX SOCKET CTSK 3/8-16X1 GR8	*2
27	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16X1 GR5	*2
28	1-861-010032-18	WASHER, FLAT 5/8N	2
29	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	*1
30	1-297-010032-03	FITTING, AIR 90	*1
31	1-297-010007-04	CONNECTOR PIPE TO TUBE	***4
32	1-833-01001	NYLON TUBING 1/4 OD	***28FT
33	1-297-010007-05	FITTING, AIR	*2
34	107368	WINCH AIR SHIFT CYL(FOR 20K)(SEE PAGE 1-60)	***1
35	1-297-010008-07	FITTING, AIR 90	1
36	3-626-010004	REGULATOR, AIR PRESSURE	*1
37	3-120-010445	BRACKET, PRESSURE REGULATOR	*1
38	3-843-010022	VALVE, PNEUMATIC	***1
39	3-368-010129	HARNESS ASSY SINGLE REMOTE	***1
40	3-368-010187	HARNESS REMOTE SWITCH	***1
41	1-765-010065	SWITCH, TOGGLE	***1

12K & 20K UPPER DECK WINCH (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
42	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5	1
43	3-150-010186	BUSHING WINCH REMOTE LEVER (FOR 20K)	1
44	3-720-010010	SPRING COMP LEVEL WIND	1
45	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5	3
46	1-861-010032-10	WASHER, FLAT 3/8N	6
47	1-512-010005-05	NUT, HEX 3/8-16	3
48	102186	WINCH TENSIONER 20K BRADEN SPRING	1
	3-873-010124	WINCH TENSIONER WLDMT (FOR 12K)	1
49	2-272-010109	ZENOR DIODE (FOR 20K)	2
50	3-272-010018	HEAT SHRINK INSULATOR (FOR 20K)	****2
51	2062-10-8S	ADAPTER, 90	****1
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	15
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	VALVE AND FILTER PRESSURE	*1,2
	48100200	FILTER	*1,2
60	1-297-010008-05	FITTING, AIR 90	*3
61	1-654-010024014	SCREW, MACH SLOT 6-32X1-1/2	*3
62	1-861-010032-01	WASHER, FLAT #6	*3
63	1-512-010003-02	NUT, HEX LOCK 6-32	*1
64	1-297-010015-02	FITTING, AIR BRANCH TEE (FOR 20K)	REF
65	239-9076-3	SUPPORT CLAMP	*1
66	1-656-010003053	SCREW RD HEAD MACH. #10-24X1 GR2	*1
67	1-512-010004-03	NUT HEX LOCK #10-24	*1
68	1-861-010034-07	WASHER, SPLIT LOCK #10	*1
69	3-348-010048	GUARD SWITCH -3 POSITION	1
70	1-861-0140032-18	WASHER FLAT 5/8N	**2
73	3-368-010188	HARNESS POWER JUMPER 660	1
74	1-297-010019-05	FITTING BRS PIPE HEX 3/8X1/4	1
75	3-565-011688	PLATE F/W SPRING TENSION - 600	*1
76	3-014-010255	ANCHOR F/W SPRING TENSION - 600	*2
77	RTR7999X4ZP	ROD THREADED	*2
78	1-512-010007-12	NUT HEX 3/4-10 GRB	*4
79	3-522-010017	NUT F/W SPRING TENSION - 600	*2
80	3-720-010035	SPRING	*2
81	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	*2
82	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	**2, ***3
85	750-029	JUNCTION BOX 7-STUD	1
86	1-512-010007-05	NUT HEX 1/4-20 GRB	2, ***3
87	1-861-010032-06	WASHER FLAT 1/4N	2
88	1-861-010034-09	WASHER SPLIT LOCK 1/4	2, ***3
89	107369	LEVER WINCH FREE SPOOL	***1
90	1-861-010032-14	WASHER, FLAT 1/2	***2
91	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
92	1-560-010002-01	PLUG, PIPE 1/8 (12K) (NOT SHOWN)	1

NOTES:

- * - FOR AIR TENSION OPTION.
- ** - FOR CABLE ROLLER OPTION.
- *** - FOR AIR SHIFT OPTION. (AVAILABLE ONLY ON 20K WINCH.)
- **** - FOR SPRING TENSION OPTION.

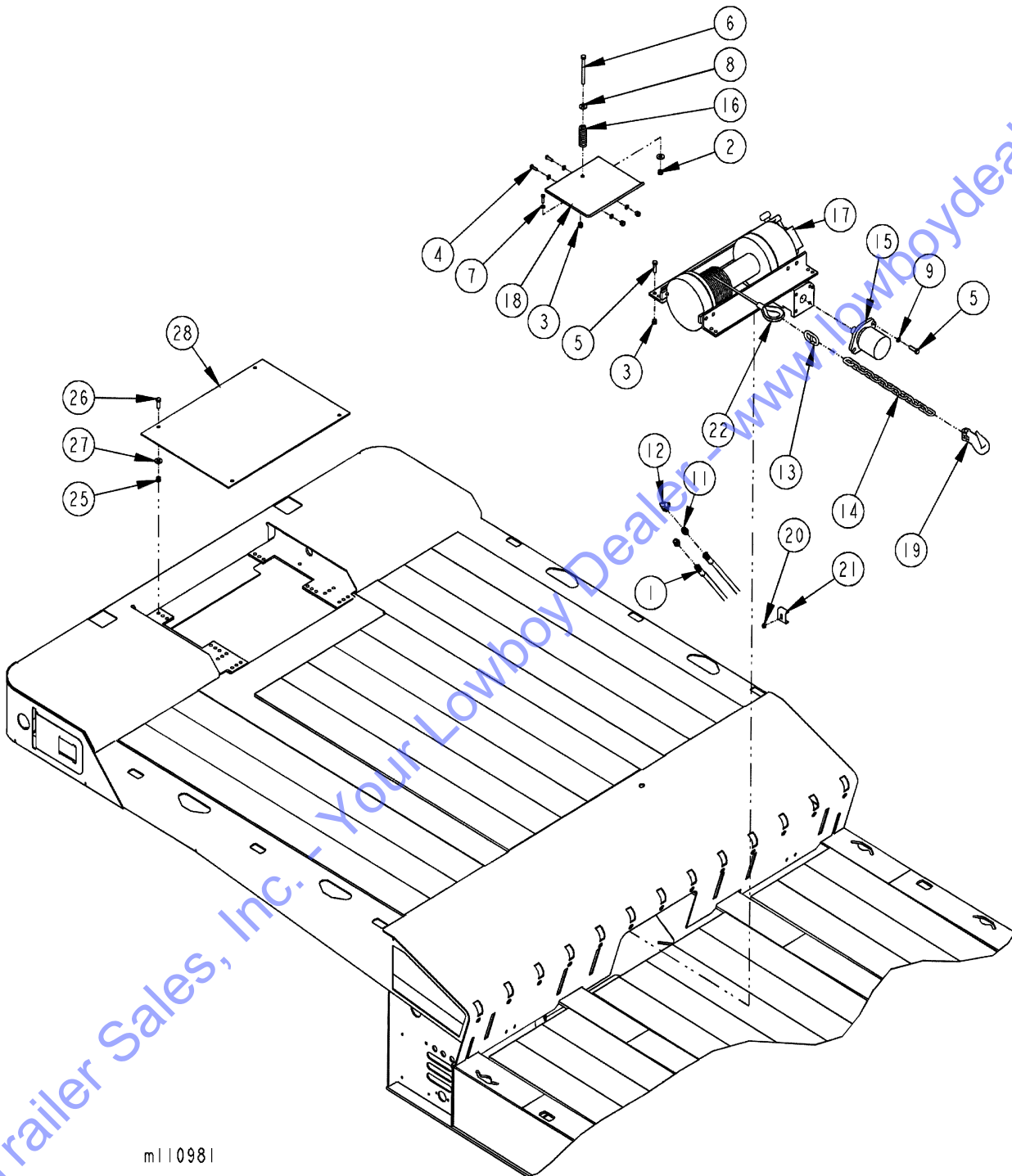
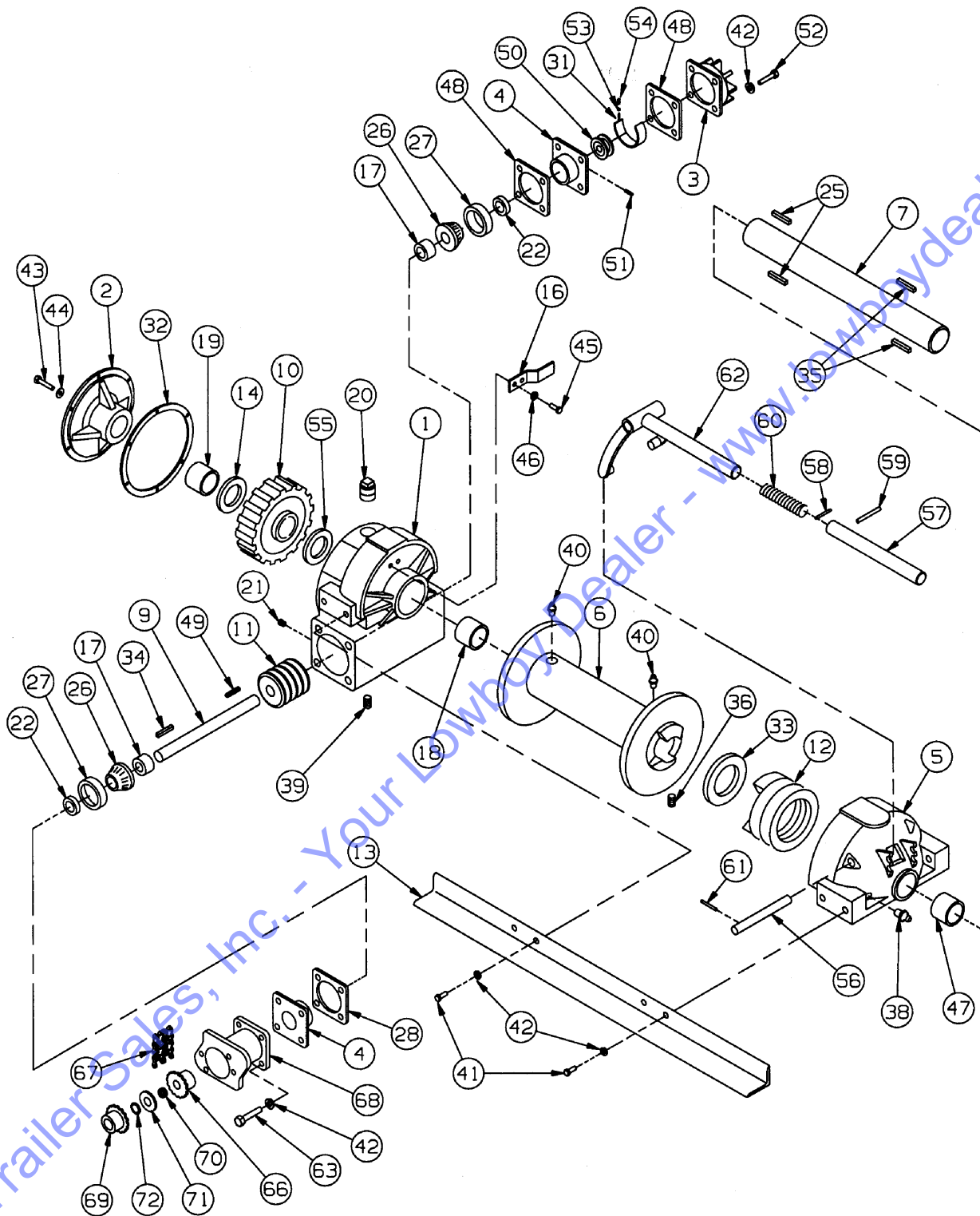


Figure 1-28 12K & 20K Slope Winch (Braden)

12K & 20K SLOPE WINCH (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	111134	WINCH INSTALLATION SLOPE 12K (INCL ITEMS 1-19)	
	111135	WINCH INSTALLATION SLOPE 20K (INCL ITEMS 1-19)	
1	1-397-010301048	HOSE ASSEMBLY	2
	1-397-010301070	HOSE ASSEMBLY	2
2	1-512-010005-05	NUT, HEX 3/8-16	3
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5	3
5	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	10
6	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5	1
7	1-861-010032-10	WASHER, FLAT 3/8N	6
8	1-861-010032-15	WASHER, FLAT 1/2	2
9	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
10	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
11	202702-10-8S	ADAPTER STR.	1
12	2062-10-8S	ADAPTER, 90	1
13	3-174-010038	LINK	1
14	3-174-010039036	CHAIN	1
15	3-481-010006	MOTOR HYD. (FOR 12K) (SEE PAGE 1-61)	1
	3-481-010007	MOTOR HYD. (FOR 20K) (SEE PAGE 1-61)	1
16	3-720-010010	SPRING COMP LEVEL WIND	1
17	3-873-010122	WINCH ASSY 12K (SEE PAGE 1-55)	1
	3-873-010123	WINCH ASSY 20K (SEE PAGE 1-58)	1
18	3-873-010124	WINCH TENSIONER WLDMT (FOR 12K)	1
	102186	WINCH TENSIONER 20K BRADEN SPRING	1
19	7HCGHT500	HOOK	1
20	1-510-010001	NUT, FLANGE LOCK 3/8-16	4
21	2-181-010001	HOSE CLAMP	4
22	3-155-010017-4	CABLE, 1/2 W/ LOOP, 85 FT	REF
	3-155-010018-6	CABLE, 5/8 W/ LOOP, 85 FT	REF
23	3-222-010212	COVER INSTALLATION (INCL. ITEMS 24-28)	1
24	1-007-010025	PLUG, 3/4-16 (NOT SHOWN)	2
25	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
26	1-654-01055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
27	1-861-010032-15	WASHER, FLAT 1/2W	4
28	3-222-010211	COVER, UPPER DECK WINCH	1



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Figure 1-29 12,000# Winch Items (Braden Worm Gear)

12,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH ASSEMBLY, 12,000#	
1	81006	HOUSING ASSEMBLY WORM (INCLUDES ITEM 18)	1
2	81009	HOUSING COVER WORM (INCLUDES ITEM 19)	1
3	18032	HOUSING, SAFETY BRAKE	1
4	23303	CONTAINER, BEARING	2
5	81530	LEG ASSEMBLY, BEARING (INCLUDES ITEM 47)	1
6	11128	DRUM, CABLE	1
7	11129	DRUM SHAFT, CABLE	1
9	23470	SHAFT, WORM	1
10	11144	GEAR, WORM	1
11	11142	WORM, LEFT HAND	1
12	18039	SLIDING CLUTCH	1
13	22752	ANGLE, BASE	2
14	13680	THRUST RING	1
16	81025	BRAKE, DRAG	1
17	11308	SPACER, WORM	2
18	18078	BUSHING	1
19	11368	BUSHING	1
20	22775	PLUG, PIPE	1
21	18009	PLUG, PIPE	1
22	18026	SEAL, GREASE	2
25	11117	KEY, WORM GEAR	2
26	18015	CONE, BEARING	2
27	18016	CUP, BEARING	2
28	18027	GASKET	3
31	21925	BAND, BRAKE	1
32	11133	WORM HOUSING COVER GASKET	3
33	18019	RETAINER RING	1
34	18030	KEY, WORM	1
35	18020	KEY, CLUTCH	2
36	24032	SCREW, SET	1
38	18047	FITTING, GREASE	1
39	19045	PLUG, PIPE	1
40	11799	FITTING, GREASE	2
41	21961	CAPSCREW	12
42	18003	WASHER, LOCK	16
43	11767	CAPSCREW	6
44	11011	WASHER, LOCK	6
45	13005	CAPSCREW	2
46	12780	WASHER, LOCK	2
47	18078	BUSHING	1
48	18024	BEARING CONTAINER GASKET	3

12,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
49	10078	KEY	1
50	18028	DRUM, BRAKE	1
51	12075	SCREW, SET	1
52	22703	CAPSCREW	4
53	13468	JAM NUT	4
54	18029	BRAKE BAND SPRING	1
55	11240	RETAINER RING	1
56	11130	SHIFTER SHAFT	1
57	12817	SHIFTER HANDLE	1
58	18056	ROLLPIN	1
59	13028	ROLLPIN	1
60	18002	SPRING	1
61	11837	ROLLPIN	2
62	13839	SHIFTER FORK	1
63	22704	CAPSCREW	4
65	18044	KEY (NOT SHOWN)	1
66	23081	COUPLING HALF (WORM SHAFT)	1
67	13424	ROLLER CHAIN	1
68	23079	MOTOR ADAPTER	1
69	23083	COUPLING HALF (MOTOR SHAFT)	1
70	23353	SPRING	1
71	23078	SPACER	1
72	23085	SPACER	1

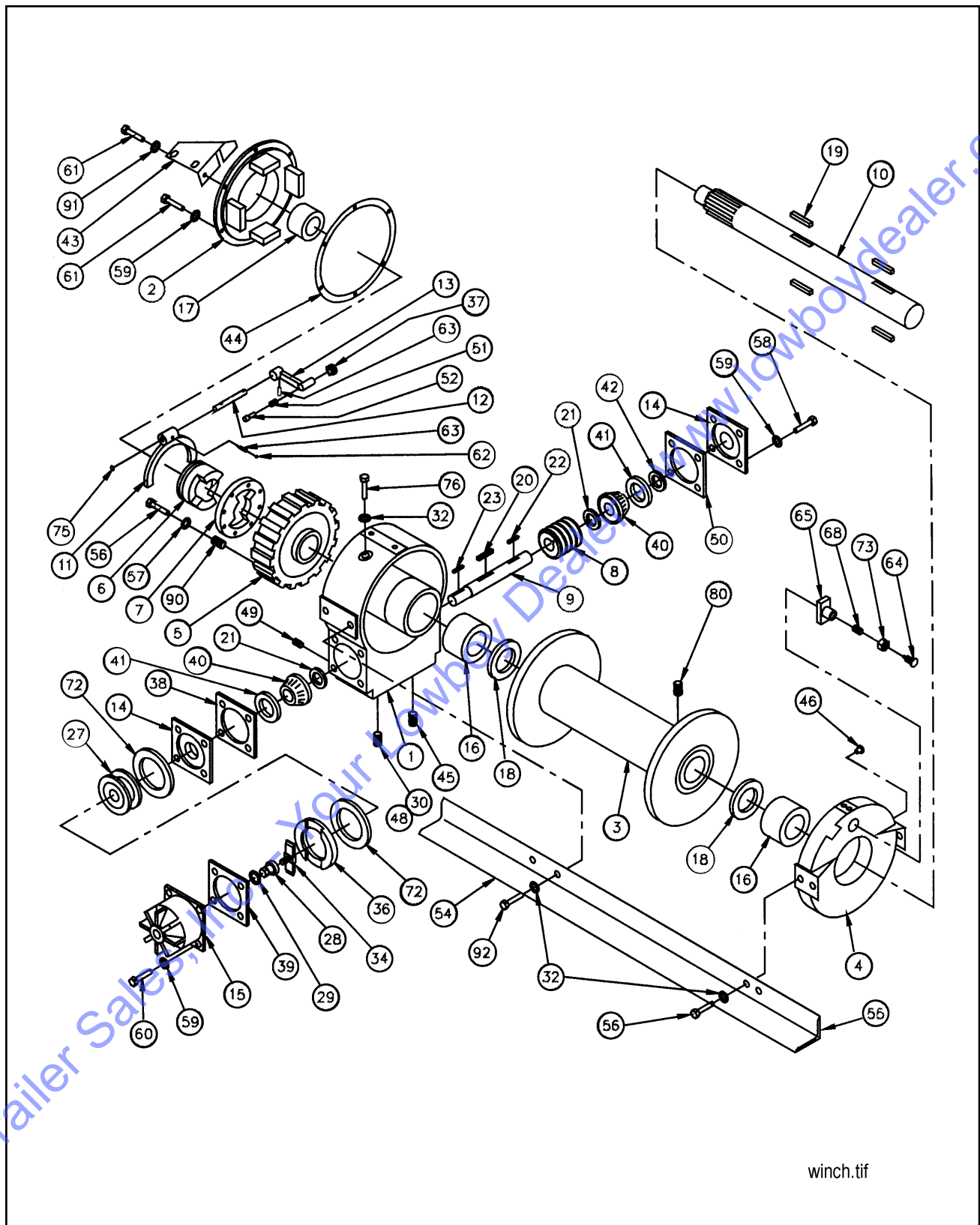


Figure 1-30 20,000# Winch Items (Braden Worm Gear)

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH 20,000# W/BOLT-ON ANGLES	
1	81078	WORM HOUSING ASSEMBLY	1
2	81082	COVER ASSEMBLY WORM HOUSING	1
3	11449	DRUM CABLE	1
4	81077	LEG ASSEMBLY BEARING	1
5	11434	WORM GEAR RIGHT	1
6	11421	CLUTCH SLIDING	1
7	11419	DRIVE CLUTCH	1
8	11404	WORM RIGHT	1
9	11405	SHAFT WORM	1
10	11414	SHAFT CABLE DRUM	1
11	11440	FORK SHIFTER	1
12	11441	SHAFT SHIFTER	1
13	11442	HANDLE SHIFTER	1
14	11427	CONTAINER BEARING	2
15	11445	COVER WORM BRAKE	1
16	18035	BUSHING	2
17	11425	BUSHING	1
18	11420	RING RETAINING	2
19	22055	DRUM KEY CABLE	4
20	11402	KEY WORM	1
21	11407	SPACER WORM	2
22	23367	KEY SPROCKET	1
23	10078	KEY ROTOR	1
27	81080	ROTOR ASSEMBLY BRAKE	1
28	11599	ADJUSTING NUT WORM BRAKE	1
29	12465	O-RING	1
30	19014	PLUG FILLER	1
32	11026	WASHER LOCK	10
34	81081	SPRING ASSEMBLY SAFETY BRAKE	1
36	11431	PLATE PRESSURE	1
37	18022	KNOB SHIFTER	1
38	11429	GASKET	4
39	11446	GASKET	2
40	18033	BEARING CONE	2
41	18034	BEARING CUP	2
42	12073	SEAL GREASE	1
43	12783	BRACKET SHIFTER	1
44	11411	COVER GASKET HOUSING	1
45	19045	PLUG DRAIN	1
46	18047	FITTING GREASE	1
48	22775	PLUG VENT	1

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
49	18009	PLUG LEVEL	1
50	11430	GASKET	4
51	11310	SPRING SHIFTER KNOB	1
52	11309	STEM SHIFTER KNOB	1
54	28942	ANGLE FRONT BASE	1
55	28943	ANGLE REAR BASE	1
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	PLUG EXPANSION	A/R
63	13028	ROLLPIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	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	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER	1
92	22697	CAPSCREW	5

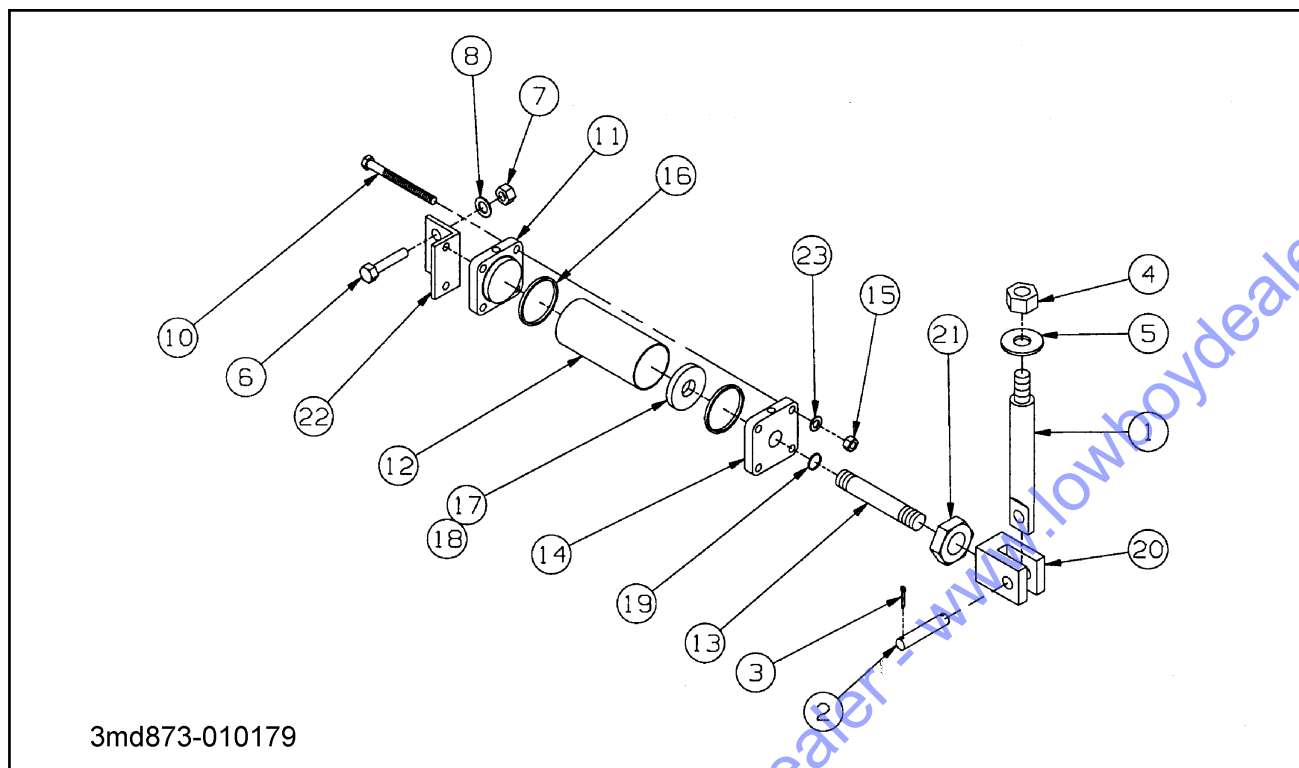


Figure 1-31 Winch Air Shift Cylinder for 20,000# Winch

WINCH AIR SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	107368	WINCH AIR SHIFT CYL 20M BRADEN (WBR-716-MOD) (INCLUDES ITEMS 1 - 23)	
1	2390	BRACKET	1
2	1976	PIN	1
3	2356	COTTER PIN	1
4	1-512-010007-05	NUT HEX 1/4-20 GRB (1161)	1
5	1-861-010034-09	WASHER SPLIT LOCK 1/4(1766)	1
6	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (1486)	2
7	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB (1211)	2
8	1-861-010032-14	WASHER FLAT 1/2 (1210)	2
9	C2001	CYLINDER (INCLUDES ITEMS 10 - 23)	1
10	1128	CAP SCREW	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	CLEVIS	1
21	1224	NUT	1
22	2389	BRACKET	1
23	1766	LOCKWASHER	4
	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	3109	O-RING KIT FOR CYLINDER	

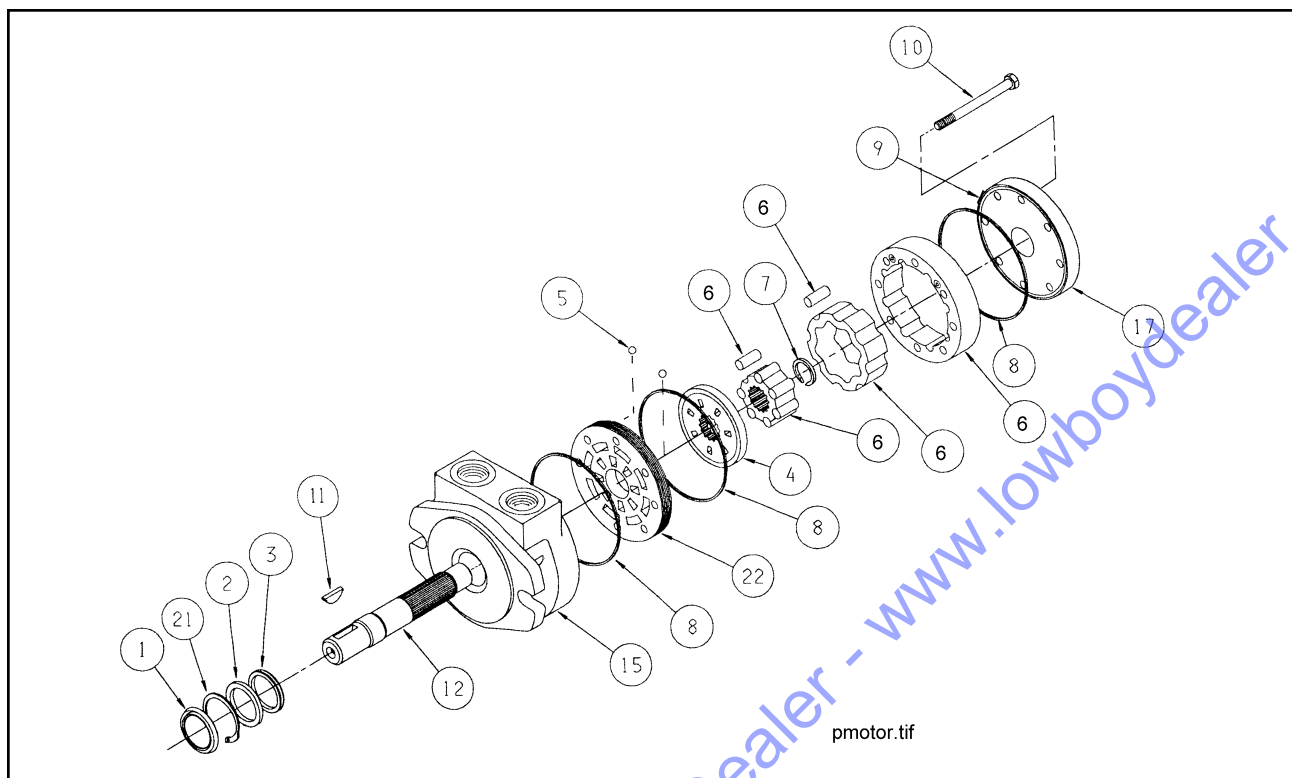
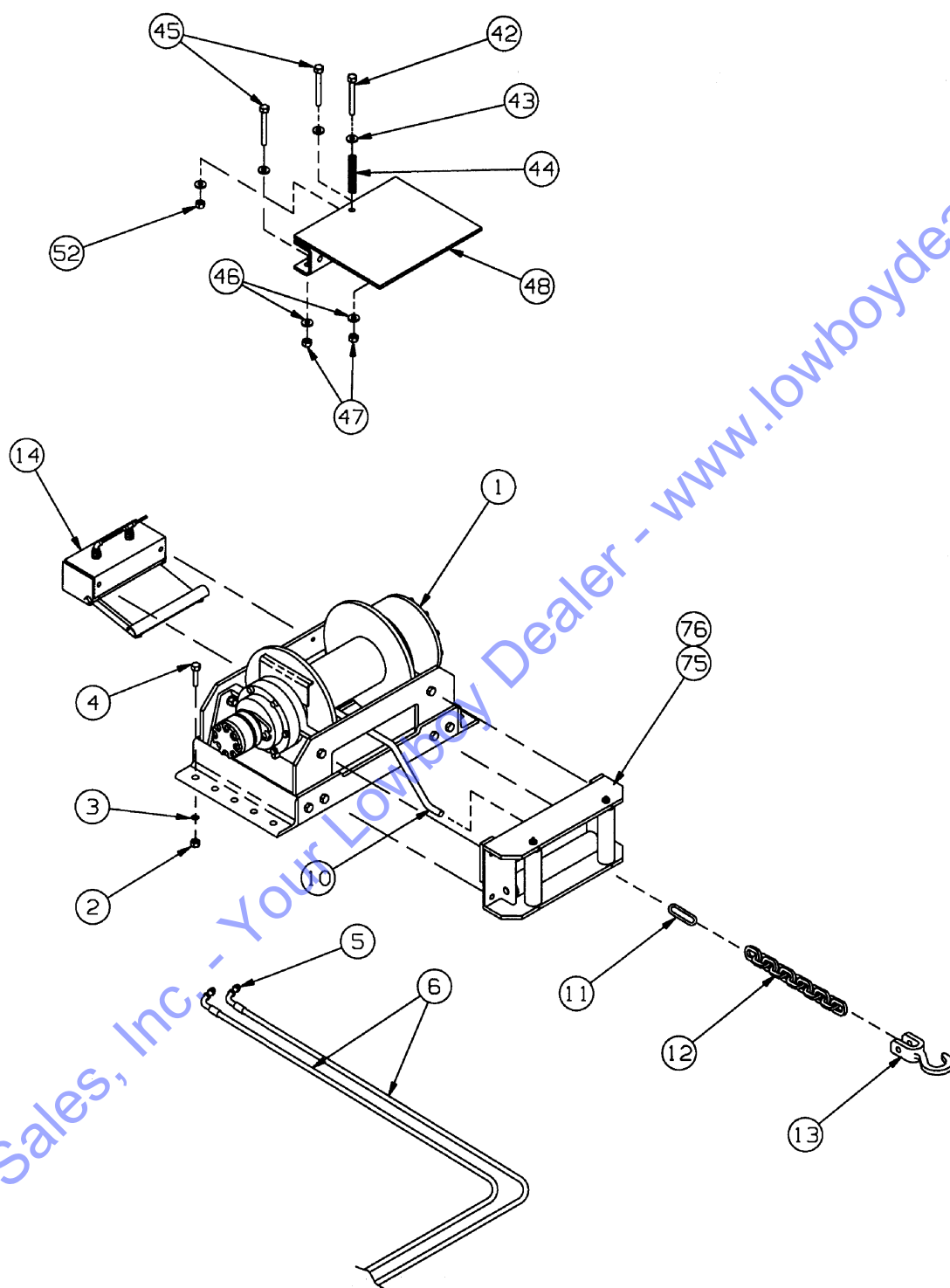


Figure 1-32 Winch Motor Assembly

WINCH MOTOR ASSEMBLY (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010007	MOTOR HYDRAULIC (FOR 20K WINCH)	1
	3-481-010006	MOTOR HYDRAULIC (FOR 12K WINCH)	1
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 ASSY (FOR 20K WINCH)	1
	1004-3	IGR ASSY (FOR 12K WINCH)	
7	1296	SNAP RING	1
8	1046	RING SEAL	3
9	1019-4	PLUG VENT W/O-RING	1
10	1014-4	BOLTS HEX (FOR 20K WINCH)	8
	1114-5	BOLTS HEX (FOR 12K WINCH)	
11	1655	KEY WOODRUFF	1
12	2265-6	SHAFT (FOR 20K WINCH)	1
	2109-3	SHAFT (FOR 12K WINCH)	
15	M110AB-4	BODY/BEARING ASSY (FOR 20K WINCH)	1
	PA-2328-2	BODY/BEARING ASSY (FOR 12K WINCH)	
17	M110C-1	COVER/BEARING ASSY	1
21	2180	SNAP RING SHAFT	1
22	1865	COMMUTATOR PLATE	1
	2263	SEAL KIT BODY	1
	2480	SEAL KIT BODY VITON	1



3mc873-010170

Figure 1-33 30K Upper Deck Winch (DP)
(1 of 2)

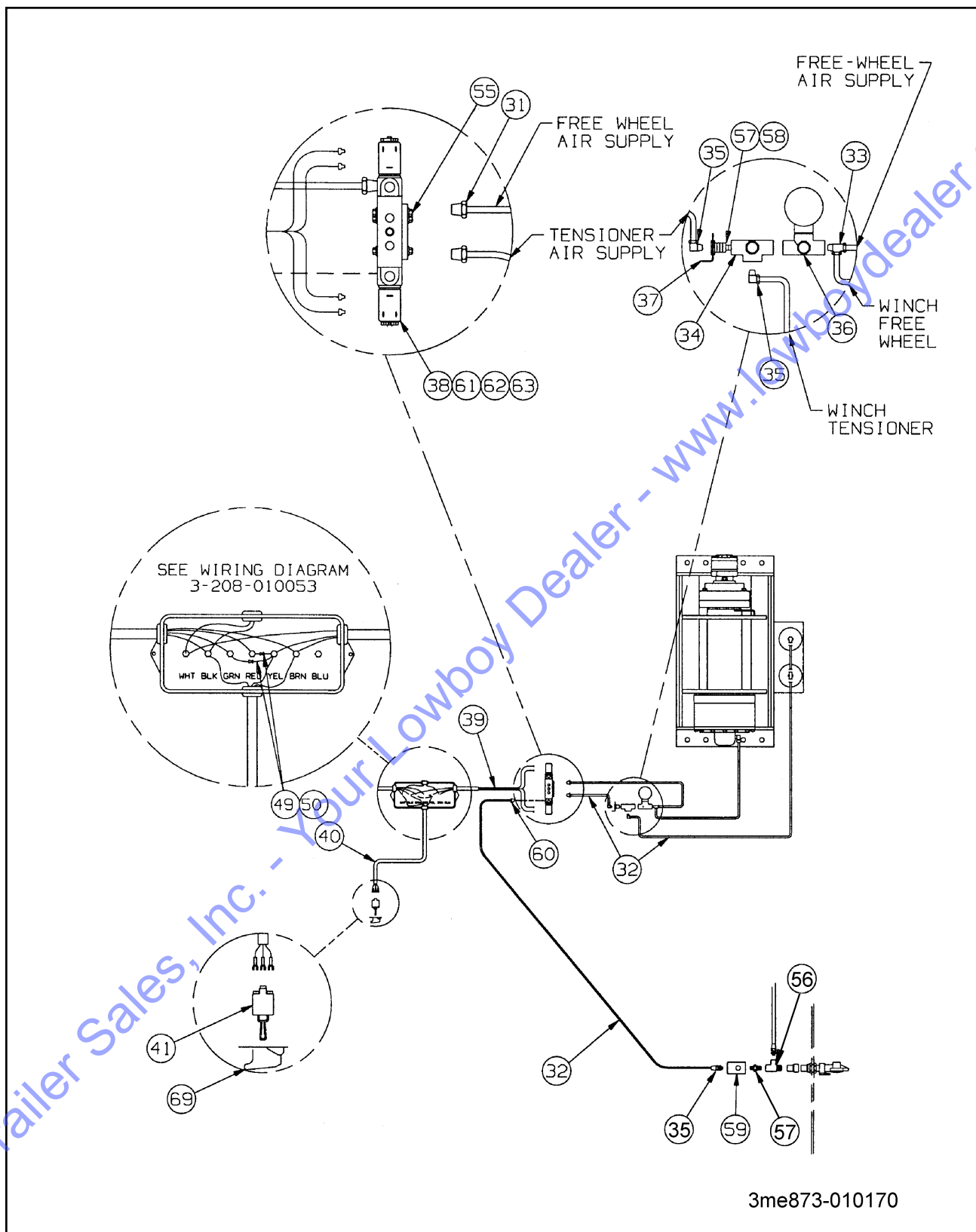


Figure 1-34 30K Upper Deck Winch (DP)
(2 of 2)

30K UPPER DECK WINCH (DP)

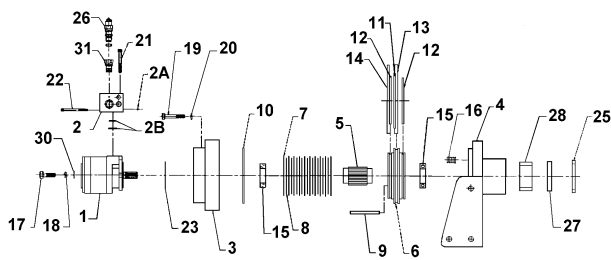
ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010170	WINCH INSTALLATION 600-30K UPPER DECK	
1	3-873-010173-01	WINCH 30K ITEMS (SEE PAGE 1-67)	1
2	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	10
3	1-861-010034-17	WASHER, SPLIT LOCK 3/4	10
4	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10X2-1/2 GR5	10
5	202702-8-8S	ADAPTER #8 O-RING TO #8 TUBE	2
6	1-397-010302220	HOSE ASSEMBLY	2
10	3-153-010016-XX	CABLE ASSEMBLY 3/4 W/ LOOP	REF
11	3-174-010059	CHAIN LINK 5/8	1
12	3-174-010060036	CHAIN GR 80	1
13	1-382-010035-06	HOOK, CLEVIS	1
14	3-873-010172	WINCH CABLE AIR TENSION 30K (SEE PAGE 1-71)	*1
31	1-297-010007-04	FITTING AIR	*2,***1
32	1-833-010001	NYLON TUBING 1/4 OD	*34,***34
33	1-297-010011-02	FITTING, AIR TEE	*1
34	3-843-010039-02	VALVE AIR SHUTTLE 1/4	*1
35	1-297-010008-07	FITTING, AIR 90	2
36	3-626-010004	REGULATOR, AIR PRESSURE	*1
37	3-120-010445	BRACKET, PRESSURE REGULATOR	*1
38	3-843-010022	VALVE, PNEUMATIC	*1,***1
39	3-368-010129	HARNESS ASSY SINGLE REMOTE	*1,***1
40	3-368-010187	HARNESS REMOTE SWITCH	*1,***1
41	1-765-010065	TOGGLE SWITCH SPDT	*1,***1
42	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13X6 GR5	****1
43	1-861-010032-15	WASHER FLAT 1/2	****2
44	3-720-010010	SPRING COMP LEVEL WIND	****1
45	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11X2 GR5	****2
46	1-861-010032-18	WASHER, FLAT 5/8N	****4
47	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	****2
48	111641	WINCH TENSIONER WLDMT 30K	****1
49	2-272-010109	ZENOR DIODE	***2
50	3-272-010018	TUBING HEAT SHRINK W/ SEALANT	***2
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	****1
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	***2
56	1-297-010015-09	FITTING AIR BR TEE	1
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	BRAKE PROTECTION VALVE	***1
	48100200	FILTER	***1
60	1-297-010008-05	FITTING, AIR 90	***1
61	1-654-010024014	SCREW, MACH FIL #6-32X1-1/2	***3
62	1-861-010032-01	WASHER, FLAT #6	***3
63	1-512-010003-02	NUT, HEX LOCK #6-32	***3
69	3-348-010048	GUARD SWITCH - 3 POSITION	1

30K UPPER DECK WINCH (DP)

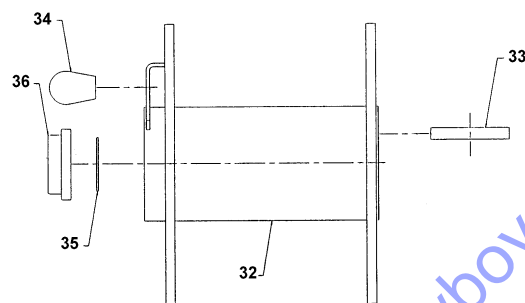
ITEM	PART NO.	DESCRIPTION	QTY.
75	3-873-010171	WINCH ROLL. GDE 30K PLNTY DP (SEE PAGE 1-69)	*1
76	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	*4

NOTES:

- * - FOR AIR TENSION OPTION.
- ** - FOR CABLE ROLLER OPTION.
- *** - FOR AIR SHIFT OPTION.
- **** - FOR SPRING TENSION OPTION.



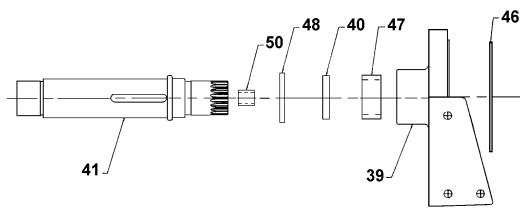
MOTOR END INSTALLATION



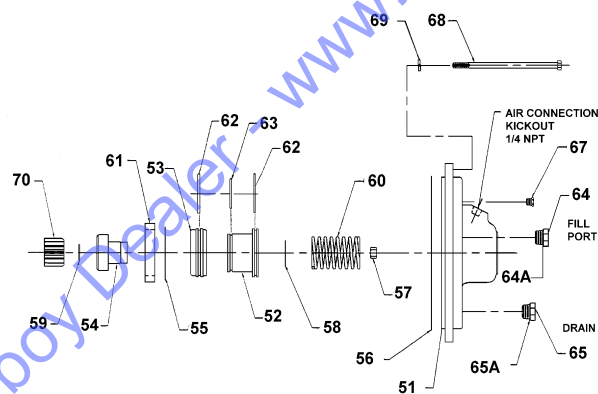
DRUM INSTALLATION



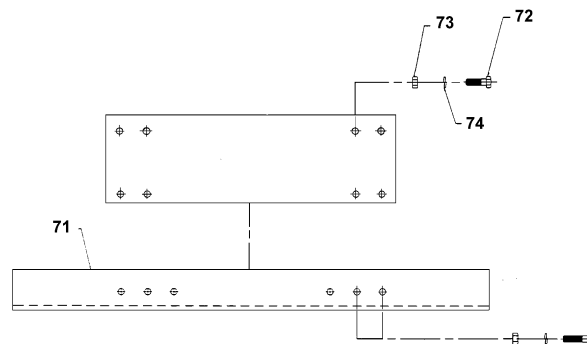
INPUT SHAFT INSTALLATION



GEAR END INSTALLATION



**AIR/HYDRAULIC KICKOUT
GEAR END COVER INSTALLATION**



BASE MOUNT INSTALLATION

Figure 1-35 30,000# Winch Items (DP Planetary)

30,000# WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010173-01	WINCH 30K ITEMS	
MOTOR END INSTALLATION			
1	73174	MOTOR, HYDRAULIC	1
2	13330	VALVE, COUNTERBALANCE	1
2A	9612	O-RING, 1/8 I.D. X 3/32 SECTION	2
2B	9972	O-RING, 5/8 I.D. X 13/16 X 3/32 SECTION	2
3	13316	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	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION	2
13	9854	RING, BACK-UP	1
14	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	1402	CAP SCREW HEX HEAD 1/2-13 X 1-1/4	2
18	1495	WASHER LOCK 1/2	2
19	1376	SCREW CAP HEX HEAD 7/16 X 2-1/2	6
20	1388	WASHER LOCK 7/16	6
21	1188	SCREW CAP SOCKET HEAD 5/16 X 3	4
22	4042	SCREW CAP SOCKET HEAD 1/4-20 X 3-3/4	1
23	9880	O-RING 3 I.D. X 1/8 SECTION	1
24	10708	TAG WARNING (NOT SHOWN)	1
25	9890	SEAL SHAFT	1
26	3177	CARTRIDGE COUNTERBALANCE	1
27	13288	WASHER THRUST BRONZE	1
28	81454	BEARING -TORRINGTON	1
30	1498	WASHER FLAT 1/2 SAE	2
31	13356	ASSEMBLY PLUG	1
DRUM INSTALLATION			
32	13285	DRUM	1
33	11977	KEY DRUM	2
34	10525	WEDGE CABLE 5/8	1
35	9672	O-RING 2-5/8 ID X 1/8 W	1
36	13286	SPACER	1
INPUT SHAFT INSTALLATION			
37	13317	SHAFT INPUT	1
GEAR END INSTALLATION			
38	3126	GEAR RING	1
39	13300	SUPPORT GEAR END	1

30,000# WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
40	13288	WASHER THRUST	1
41	13301	SHAFT OUTPUT	1
42	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION	2
43	12486	CARRIER ASSEMBLY PRIMARY	1
44	12516	CARRIER ASSEMBLY SECONDARY	1
45	10848	LABEL WARNING (NOT SHOWN)	1
46	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
47	81454	BEARING	1
48	9890	SEAL SHAFT	1
49	13306	GEAR SUN	1
50	81608	BUSHING ID 1-1/4 OD X 1 LG	1
AIR/HYD. KICKOUT GEAR END COVER INSTALLATION			
51	13675	COVER GEAR END	1
52	13295	PISTON AKO B/C/D	1
53	13296	CYLINDER PISTON	1
54	13297	COUPLING DRIVE	1
55	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
56	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
57	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
58	3303	RING RETAINING 1-1/4	1
59	3321	RING RETAINING RD SEC .805 I.D.	1
60	2309	SPRING COMPRESSION	1
61	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
62	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
63	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
64	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
64A	9992	O-RING .755 I.D. X .097 W 3-910	1
65	76343	PLUG SKT HD O-RING MAG #10	1
65A	9992	O-RING .755 I.D. X .097 W 3-910	1
66	1157	CAPLUG #4 RED (NOT SHOWN)	1
67	3059	RELIEF VENT	1
68	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
69	1395	WASHER LOCK 3/8	12
70	13235	GEAR SUN AKO	1
BASE MOUNT INSTALLATION			
71	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
72	1505	SCREW CAP HEX HAD 5/8-11 X 2-1/4 GR5	12
73	1590	NUT HEX 5/8 - 11 GR2	12
74	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12
75	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG (NOT SHOWN)	4
76	10466	PLATE INFORMATION (NOT SHOWN)	1

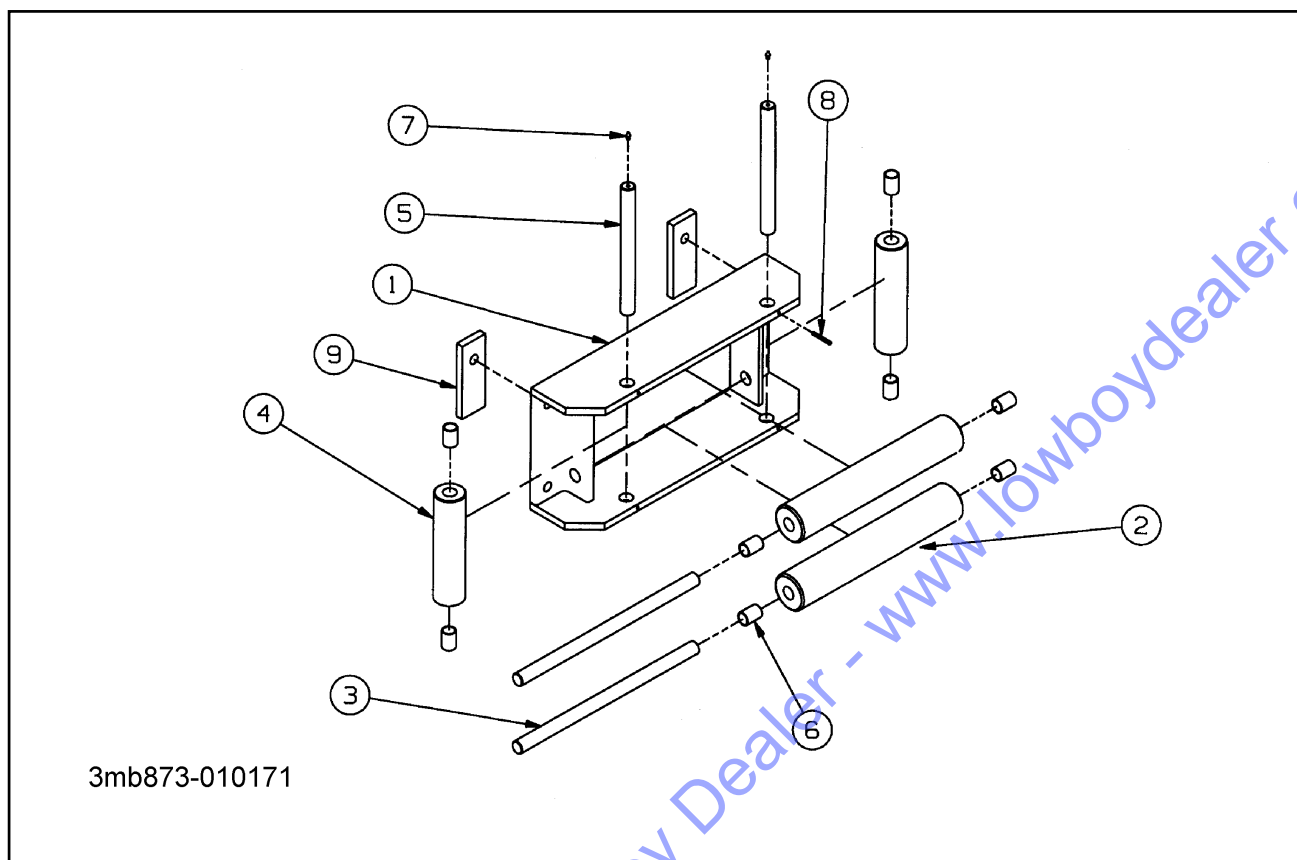
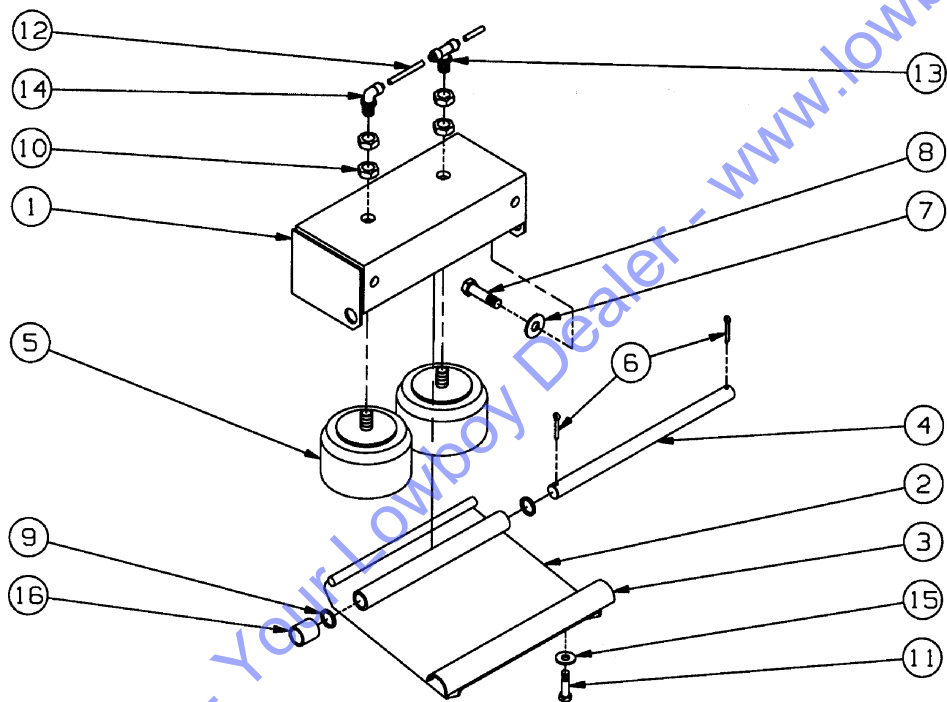


Figure 1-36 Winch Roller Guide - 30K

WINCH ROLLER GUIDE -30K (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010171	WINCH ROLLER GUIDE - 30K PLNTY DP-600(DP#14072)	
1	14069	BRACKET	1
2	14070	HORIZONTAL ROLLER	2
3	14071	SHAFT ROLLER	2
4	13400	VERTICAL ROLLER	2
5	13403	SHAFT ROLLER	2
6	81611	BUSHING	8
7	1000	FITTING	4
8	3456	PIN SPRING	4
9	14074	SPACER	2



3mb873-010172

Figure 1-37 Winch, Cable Air Tension (DP)

WINCH, CABLE AIR TENSION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010172	WINCH, CABLE AIR TENSION (30K)	
	111351	WINCH ROLLER GUIDE DP WINCH (INCL	
1	52859	MOUNTING BRACKET	1
2	13969	ARM	1
3	13996	RUB BAR	1
4	13968	PIVOT PIN	1
5	3445	AIR CUSHIONS	2
6	1027	COTTER PIN	2
7	1495	WASHER	2
8	1401	CAPSCREW	2
9	13063	WASHER	2
10	1589	JAM NUT	4
11	1166	CAPSCREW	2
12	69095	TUBING	REF
13	78402	ADAPTER TEE	1
14	78403	ADAPTER TUBE	1
15	1168	WASHER	2
16	13973	SPACER	1

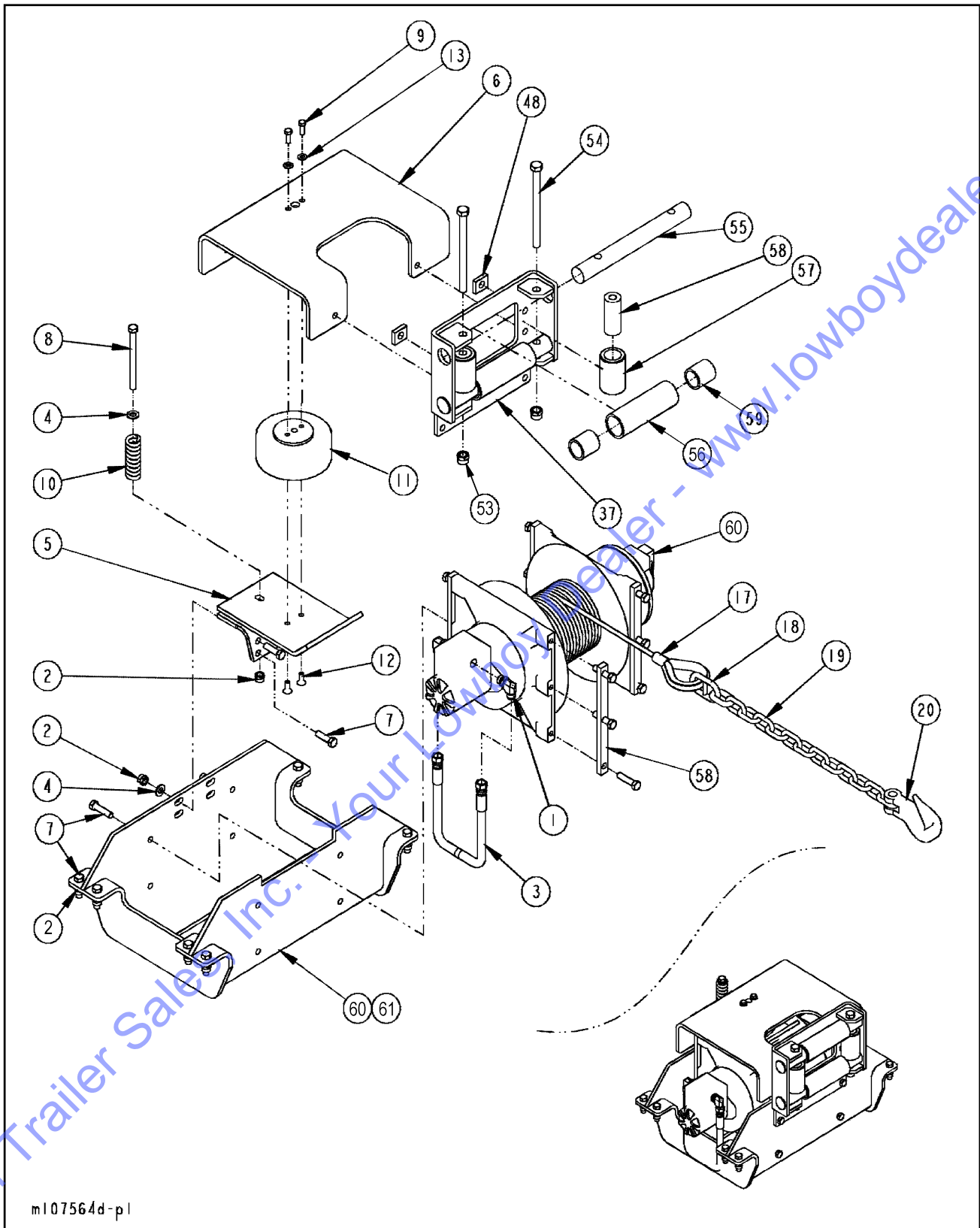


Figure 1-38 12K, 15K, & 20K Upper Deck Winch (DP)
(1 of 2)

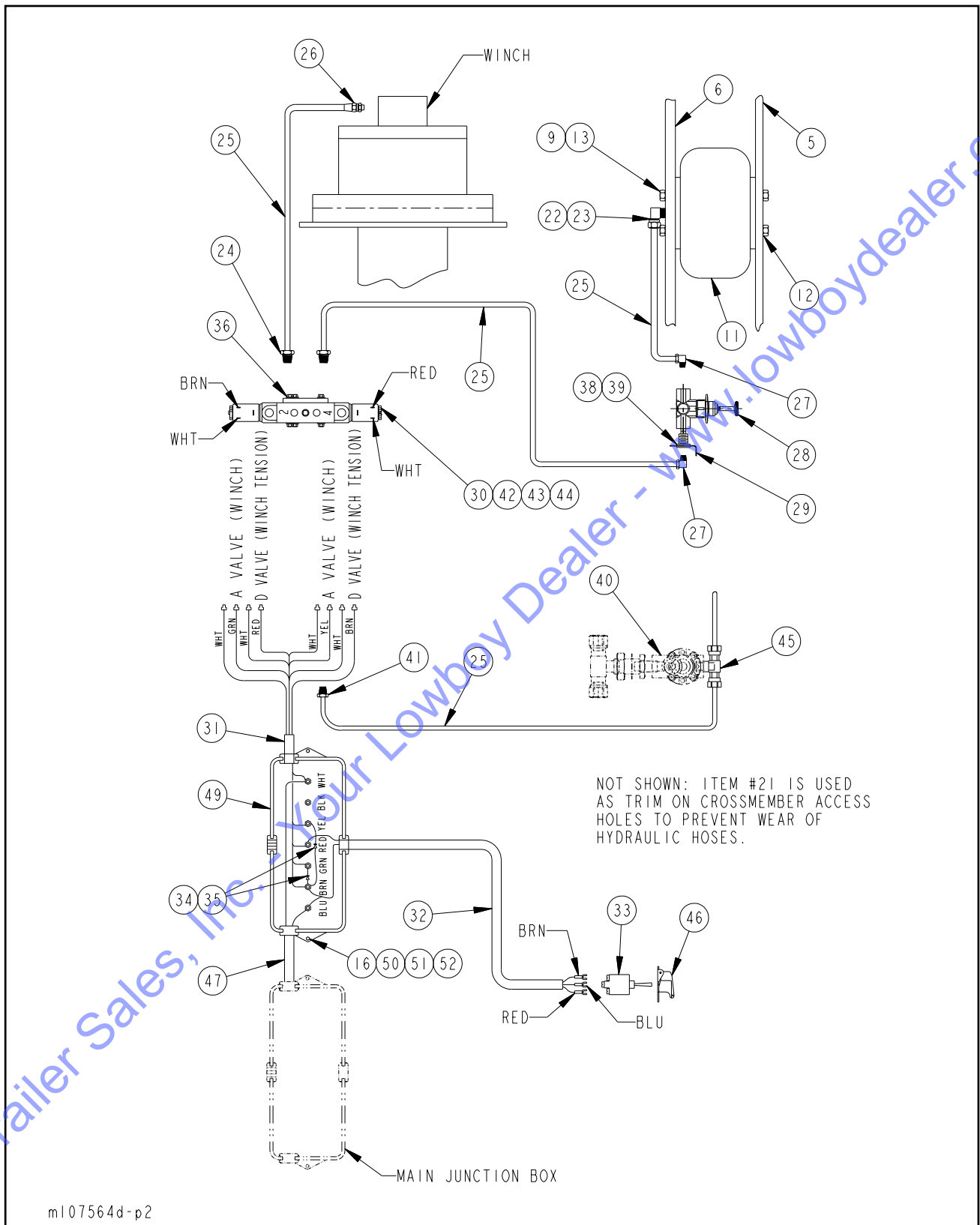


Figure 1-39 12K, 15K, & 20K Upper Deck Winch (DP)
(2 of 2)

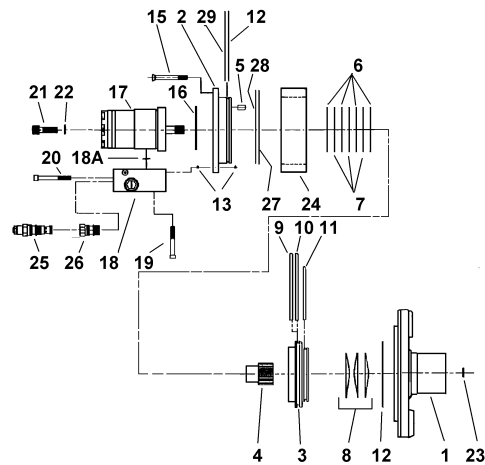
12K, 15K, & 20K UPPER DECK WINCH (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	107564	WINCH INSTALLATION 12K, 15K, 20K DP	
	111351	WINCH ROLLER GUIDE DP WINCH (OPTION) (INCL. ITEMS 37, 48, & 53-59)	
1	2062-8-8S	ADAPTER 90	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13	13
3	1-397-010301048	HOSE ASSEMBLY 1/2 X 48 (SLOPE WINCH MODELS)	2
	1-397-010301170	HOSE ASSEMBLY 1/2 X 170 (ALL OTHER MODELS)	2
4	1-861-010032-14	WASHER, FLAT 1/2	5
5	106379	WINCH TENSIONER WLDMT	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	CABLE, 5/8 W/ LOOP(20K)	REF
	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	7HCGHT500	1/2 CLEVIS GRAB HOOK	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	3-272-010109	ZENOR DIODE (* W/ REMOTE)	2
35	3-272-010018	HEAT SHRINK INSULATOR (* W/ REMOTE)	2
36	3-136-010001-01	BREATHING, 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
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

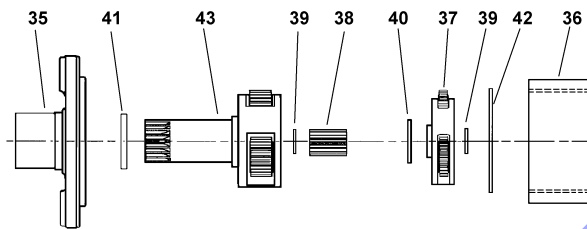
12K, 15K, & 20K UPPER DECK WINCH (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
44	1-512-010003-02	NUT, HEX LOCK #6-32 (* W/O REMOTE)	2
45	1-297-010015-03	FITTING, AIR BRANCH TEE(*)	1
46	3-348-010048	GUARD, SWITCH - 3 POSITION (*)	1
47	3-368-010188	HARNESS, POWER JUMPER (*)	1
48	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
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 RAIL/LEAD 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	109384	WINCH 15K MAN K/O DP (PRIOR 12/16/99)	1
	109386	WINCH 15K DP AIR KICKOUT (PRIOR 12/16/99)	1
	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 1-77 FOR WINCH BREAKDOWNS)	
61	106375	MOUNT WELDMENT 20K (PRIOR 12/16/99)	

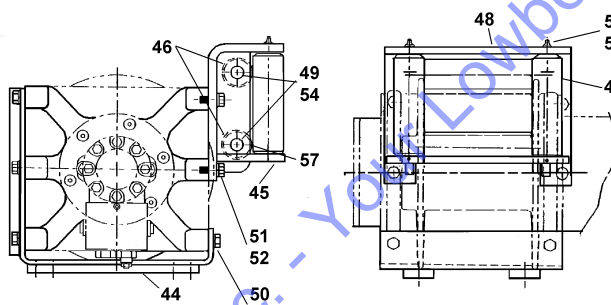
* USED ON AIR TENSION RELEASE MODELS



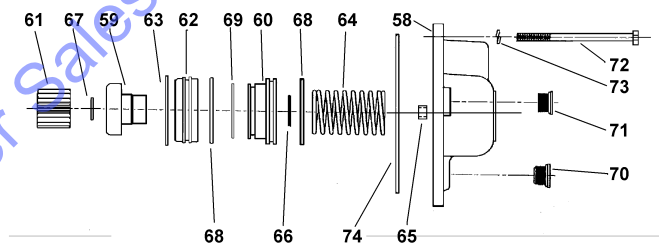
MOTOR END INSTALLATION



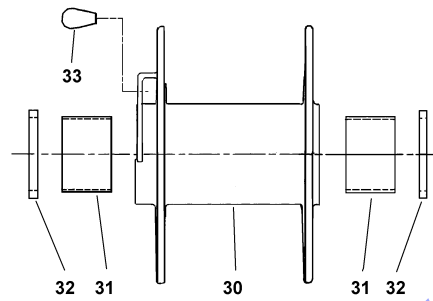
GEAR END INSTALLATION



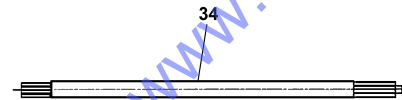
BASE INSTALLATION



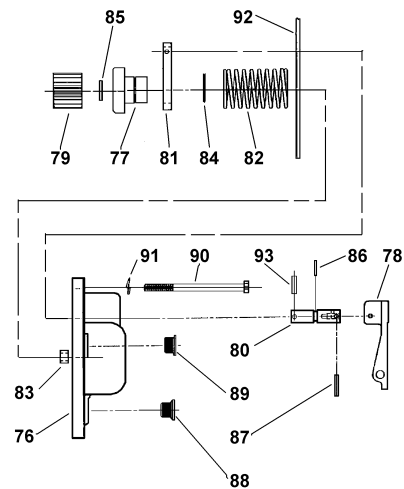
AIR KICKOUT
GEAR END COVER INSTALLATION



CABLE DRUM INSTALLATION



INPUT SHAFT INSTALLATION



LEVER KICKOUT
GEAR END COVER INSTALLATION

Figure 1-40 12K, 15K, & 20K Winch Items (DP Planetary)

12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
	109384	WINCH 15K MAN K/O DP (PRIOR 12/16/99)	
	109386	WINCH 15K DP AIR KICKOUT (PRIOR 12/16/99)	
	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	9843	O-RING	2
13	9612	O-RING	2
14	3440	PLUG, EXPANDER (NOT SHOWN)	2
15	4346-8	CAP SCREW, SOCKET HEAD FLAT 3/8NC X 3 GR8	6
16	9637	O-RING	1
17		MOTOR, HYDRAULIC (12K)	
	112641	MOTOR, HYDRAULIC (15K)	1
		MOTOR, HYDRAULIC (20K)	
18	13894	VALVE ASSEMBLY, COUNTERBALANCE	1
18A	9821	O-RING	2
19	1167	CAP SCREW SOCKET HEAD 5/16-18 X 2	4
20	4076	CAP SCREW SOCKET HEAD 1/4-20 X 4-1/2	1
21	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	CARTRIDGE	1
26	70042	PLUG, SUN	1
27	9600	O-RING	1
28	9711	RING, BACKUP	1
29	9846	RING, BACKUP	1
		CABLE DRUM INSTALLATION	
30	12401	DRUM	1
31	11947	BEARING - BRONZE	2
32	9929	SEAL SHAFT	2

12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
33	10529	WEDGE - CABLE 7/16	1
		INPUT SHAFT INSTALLATION	
34	13678	INPUT SHAFT	4
		GEAR END INSTALLATION	
35	13605	SUPPORT, END GEAR	1
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

12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
72	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
73	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
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	1168	WASHER, LOCK 5/16	8
92	9897	O-RING	1
93	3456	PIN, SPRING 3/16 X 13/16	1

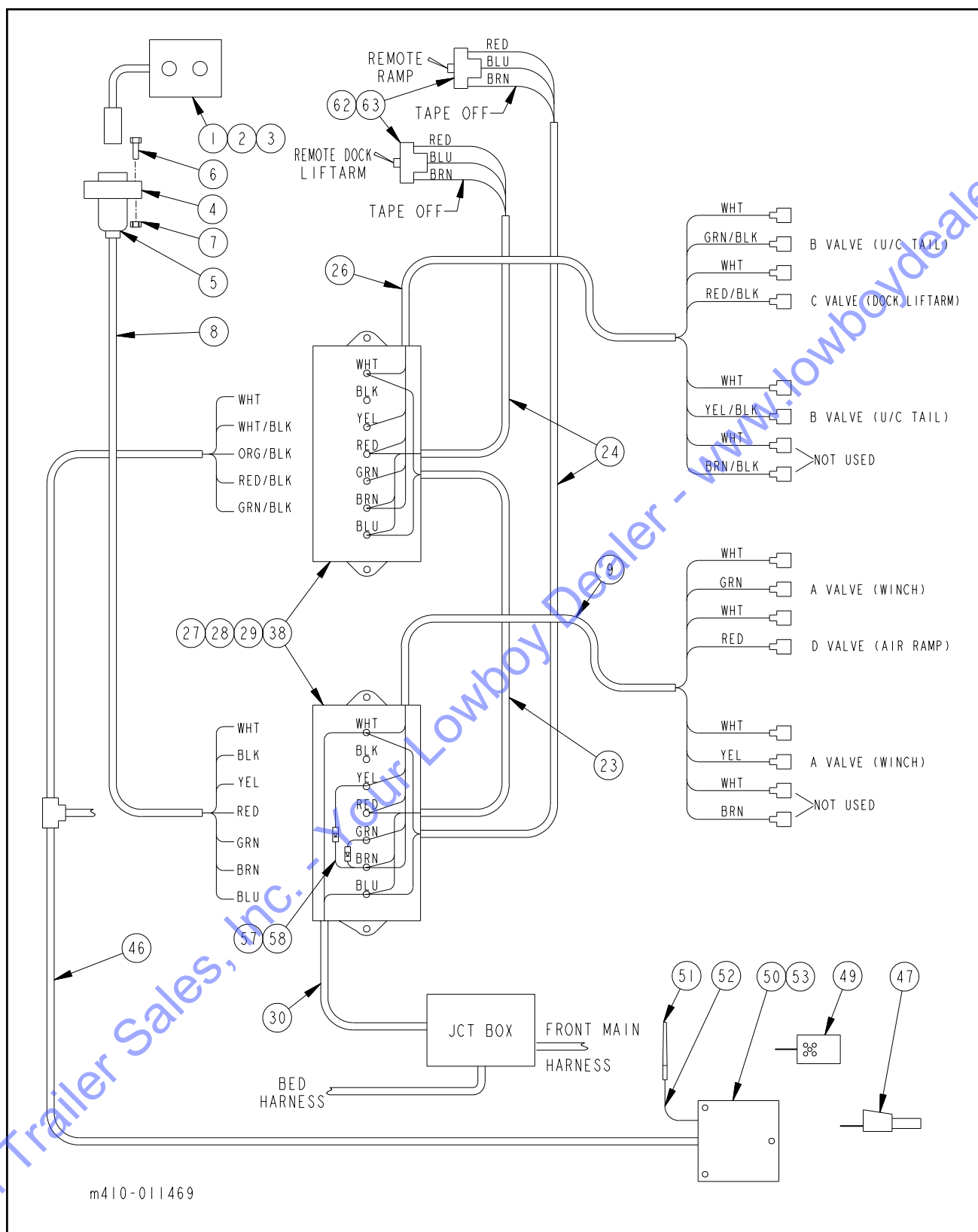


Figure 1-41 Remote Control Items (1 of 2)

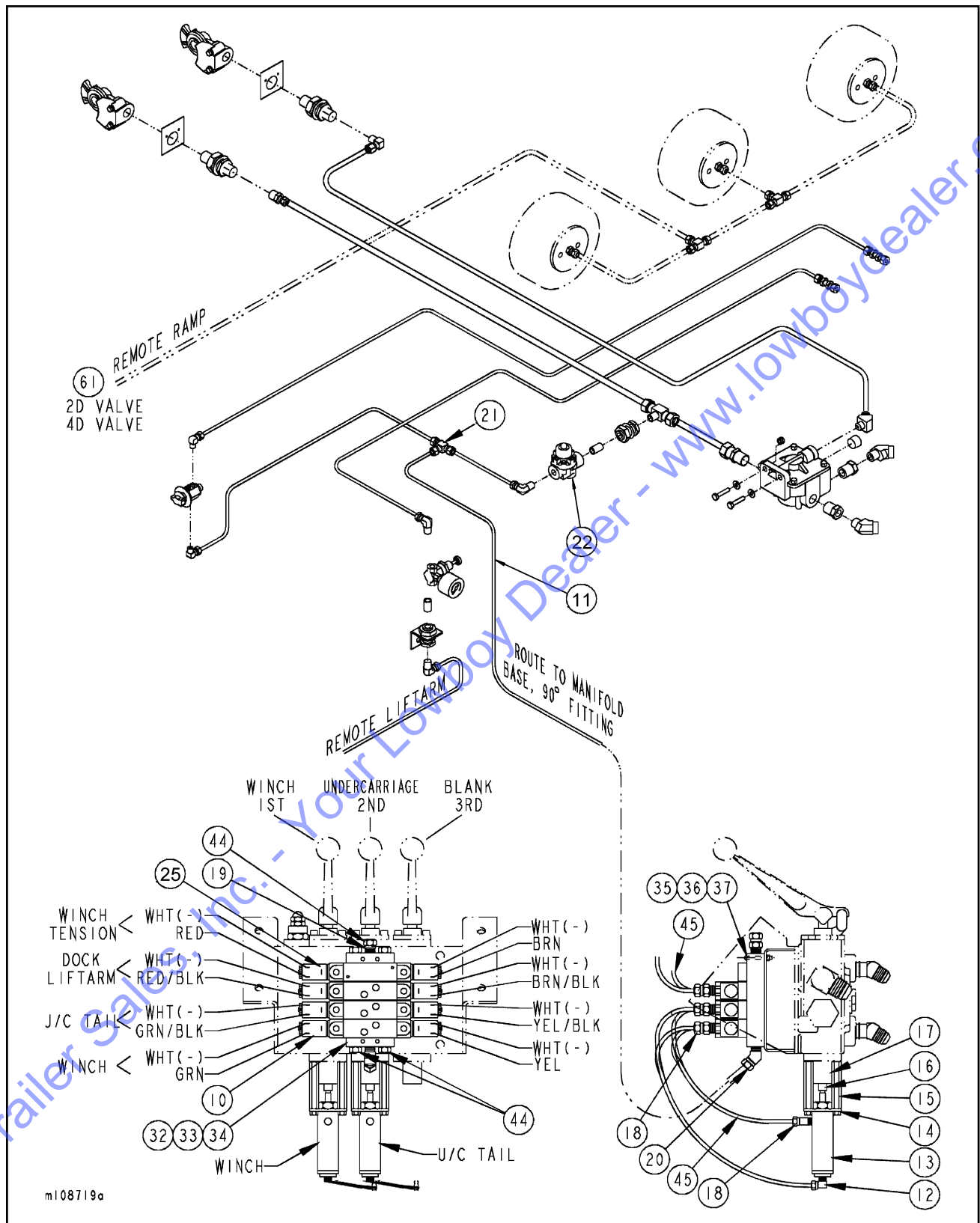


Figure 1-42 Remote Control Items (2 of 2)

WIRED REMOTE CONTROL ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.				
	3-208-010053-01	REMOTE CONTROL - WN	1				
	3-208-010053-03	REMOTE CONTROL - WN/UC		1			
	3-208-010053-04	REMOTE CNTRL - WN/TEN			1		
	109255	REMOTE CNTRL - WN/UC/DL				1	
	109256	REMOTE CNTRL - WN/UC /TEN					1
1	3-765-010001	CONTRL REMOTE WINCH	1	-	-	-	-
2	3-209-010004-03	CNTRL RMT WINCH U/C	-	1	-	-	-
	3-209-010004-02	CNTRL RMT WINCH/TENSION	-	-	1	-	-
3	109267	CONT 3 FUNC WN/UC/DL	-	-	-	1	-
	109266	CONT 3 FUNC WN/UC/TEN	-	-	-	-	1
		(SEE PAGE 1-87)	-	-	-	-	-
4	3-272-010125	RECEPTACLE 7-PIN	1	1	1	1	1
5	59W-2-3	RUBBER BOOT	1	1	1	1	1
6	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18X1-1/4 GR5	2	2	2	2	2
7	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2	2	2	2	2
8	3-368-010189	HARNESS, PANEL	1	1	1	1	1
9	3-368-010125	HARNESS ASSY, DUAL REM	-	1	-	1	1
10	3-843-010015	VALVE PNEUM. 4-WAY 3-POS	1	2	1	3	2
11	1-833-010001	NYLON TUBING 1/4 OD	8	8	8	8	8
12	1-297-010008-01	FITTING AIR 90	1	2	1	2	2
13	3-238-010001	CYLINDER AIR	1	2	1	2	2
14	3-482-010288	MT AIR CYL VALVE	1	2	1	2	2
15	3-711-010055	SPACER	4	8	4	8	8
16	3-007-010039	ADAPTER AIR CYLINDER	1	2	1	2	2
17	3-161-010034	CAP MOD. VALVE SPOOL	1	2	1	2	2
18	68CA-2-2	CONNECTOR AIR	3	6	3	8	6
19	3-136-010001-02	BREATHER PNEUMATIC EXCH 1/4 NPT	2	2	2	2	2
20	1-297-010008-07	FITTING AIR 90	2	2	2	2	2
21	1-297-010010-01	FITTING AIR UNION TEE	1	1	1	1	1
22	905-54-107	VALVE FILTER PRESSURE	REF	REF	REF	REF	REF
	48100200	FILTER	1	1	1	1	1
23	109265	HARNESS JUMPER JCT BOX	-	-	-	1	1
25	3-843-010022	VALVE PNEU. 4-WAY 2-POS	REF	REF	REF	REF	REF
26	109263	HARNESS ASSY	1	-	1	-	1
27	1-861-010032-06	WASHER FLAT 1/4N	2	2	2	7	7
28	1-512-010005-01	NUT HEX LOCK 1/4- 20 GRB	2	2	2	4	4
29	750-029	JUNCTION BOX 7-STUD	1	1	1	2	2
30	3-368-010188	HARNESS PWR JUMPER	1	1	1	1	1
32	3-843-010023	VALVE PNEU MANIFOLD	-	1	-	1	1
33	3-843-010025	VALVE PNEU MANIFOLD	1	-	1		-
34	3-843-010024	VALVE BLK STATION CVR	1	2	-	1	1
35	1-654-010024014	SCREW MACH SLOT #6-32X1-1/2 GR2	4	4	4	4	4
36	1-861-010032-01	WASHER FLAT #6	4	4	4	4	4
37	1-512-010003-02	NUT HEX LOCK #6-32 GRB	4	4	4	4	4

WIRED REMOTE CONTROL ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.				
38	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2	2	2	4	4
44	1-297-010033-02	PLUG BRASS PIPE 1/4	3	3	3	3	3
45	NB-2-016	TUBING NYLON 1/8 OD	3	6	3	9	6
57	2-272-010109	ZENOR DIODE 20V 5A	-	-	2	-	-
58	3-272-010018	HEAT SHRINK INSUL.	-	-	2	-	-
61	1-560-010002-01	PLUG, PIPE	-	-	-	1	-
62	238-0520	SWITCH, TOGGLE SPST	-	-	-	1	-
63	81264	RUBBER BOOT	-	-	-	1	-
64	1-660-010006	SEALANT, ELECT. (NOT SHOWN)	AR	AR	AR	AR	AR

RADIO REMOTE CONTROL ITEMS(REF. FIG. 1-41 AND 1-42)

ITEM	PART NO.	DESCRIPTION	QTY.					
	109257	RAD REMOTE CNTRL - WN/UC	1					
	109258	RAD REMOTE CNTRL - WN/TEN		1				
	109259	RAD REMOTE CNTRL - WN/UC/DL			1			
	109260	RAD REMOTE CNTRL - WN/UC/TEN				1		
	109122	RAD REMOTE CNTRL WN/UC/TEN/DL					1	
	112484	RAD REMOTE CNTRL WN/UC/DL/RMP						1
9	3-368-010125	HARNESS ASSY	1	1	1	1	1	1
10	3-843-010015	VALVE PNEUMATIC	2	1	3	3	3	4
11	1-833-010001	NYLON TUBING	8	8	8	8	8	AR
12	1-297-010008-01	FITTING AIR 90	2	1	2	2	2	2
13	3-238-010001	CYLINDER AIR	2	1	2	2	2	2
14	3-482-010288	MT AIR CYLDR VALVE	2	1	2	2	2	2
15	3-711-010055	SPACER	8	4	8	8	8	8
16	3-007-010039	ADAPTER AIR CYLINDER	2	1	2	2	2	2
17	3-161-010034	CAP MOD VALUE SPOOL	2	1	2	2	2	2
18	68CA-2-2	CONNECTOR AIR	6	3	8	8	8	6
19	3-136-010001-02	BREATHER PNEU EXCH	2	2	2	2	2	2
20	1-297-010008-07	FITTING AIR 90	2	2	2	2	2	1
21	1-297-010010-01	FITTING AIR STR	-	-	1	-	-	-
22	905-54-107	VALVE & FLTR PRESSURE	-	-	1	-	-	-
	48100200	FILTER	-	-	1	-	-	-
23	109265	HARNESS JUMPER JCT BOX	-	-	-	1	1	1
24	109264	HARNESS, SWITCH	-	-	-	-	1	2
25	3-843-010022	VALVE PNEU. 4-WAY 2-POS	REF	REF	REF	REF	REF	REF
26	109263	HARNESS REMOTE	-	-	1	-	-	-
27	1-861-010032-06	WASHER FLAT 1/4 N	5	5	7	7	7	7
28	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2	2	4	4	4	4
29	750-029	JUNCTION BOX 7-STUD	1	1	2	2	2	2
30	3-368-010188	HARN PWR JUMPER 660	1	1	1	1	1	1
32	3-843-010023	VALVE PNEU MANIFOLD	1	-	1	1	1	1
33	3-843-010025	VALVE PNEU MANIFOLD	-	1	-	-	-	-
34	3-843-010024	VALVE BLK STATION CVR	2	-	1	1	-	-
35	1-654-010024014	SCREW MACH SLOT #6-32	4	4	4	4	4	4
36	1-861-010032-01	WASHER FLAT #6	4	4	4	4	4	4
37	1-512-010003-02	NUT HEX LOCK #6-32 GRB	4	4	4	4	4	4
38	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2	2	4	4	4	4
44	1-297-010033-02	FTG BRASS PLUG HEX 1/4	3	3	3	3	3	3
45	NB-2-016	TUBING NYL. FLEX 1/8 OD	6	6	3	6	9	AR

RADIO REMOTE CONTROL ITEMS (REF. FIG. 1-41 AND 1-42)

ITEM	PART NO.	DESCRIPTION	QTY.					
46	3-153-010014	CABLE ASSY	1	1	1	1	1	1
47	109261	CNTRL RADIO 2 FUNC	1	1	-	-	-	-
	109262	CNTRL RADIO 3 FUNC	-	-	1	1	-	-
	109098	CNTRL RADIO 4 FUNC (SEE PAGE 1-89)	-	-	-	-	1	-
49	112485	CNTRL RADIO HANDHELD	-	-	-	-	-	1
50	115766	HANDHELD TRANSMITTER FOR P/N 112485 (SEE PAGE 1-89)						1
51	A001	ANTENNA	1	1	1	1	1	1
52	W001-15	ANTENNA CORD 15'	1	1	1	1	1	1
53	1-512-010007-05	NUT, HEX 1/4-20	3	3	3	3	3	3
59	1-796-010002-01	TIE STRAP PLASTIC (NOT SHOWN)	5	5	5	5	5	5
60	900729-3	CLAMP HOSE (NOT SHOWN)	1	1	1	1	1	1
61	1-560-010002-01	PLUG, PIPE 1/8	-	-	1	-	1	2
62	238-0520	SWITCH, TOGGLE SPST	-	-	1	-	1	2
63	81264	RUBBER BOOT FOR SWITCH	-	-	1	-	1	2
64	1-660-010006	SEALANT, ELECT. (NOT SHOWN)	AR	AR	AR	AR	AR	AR

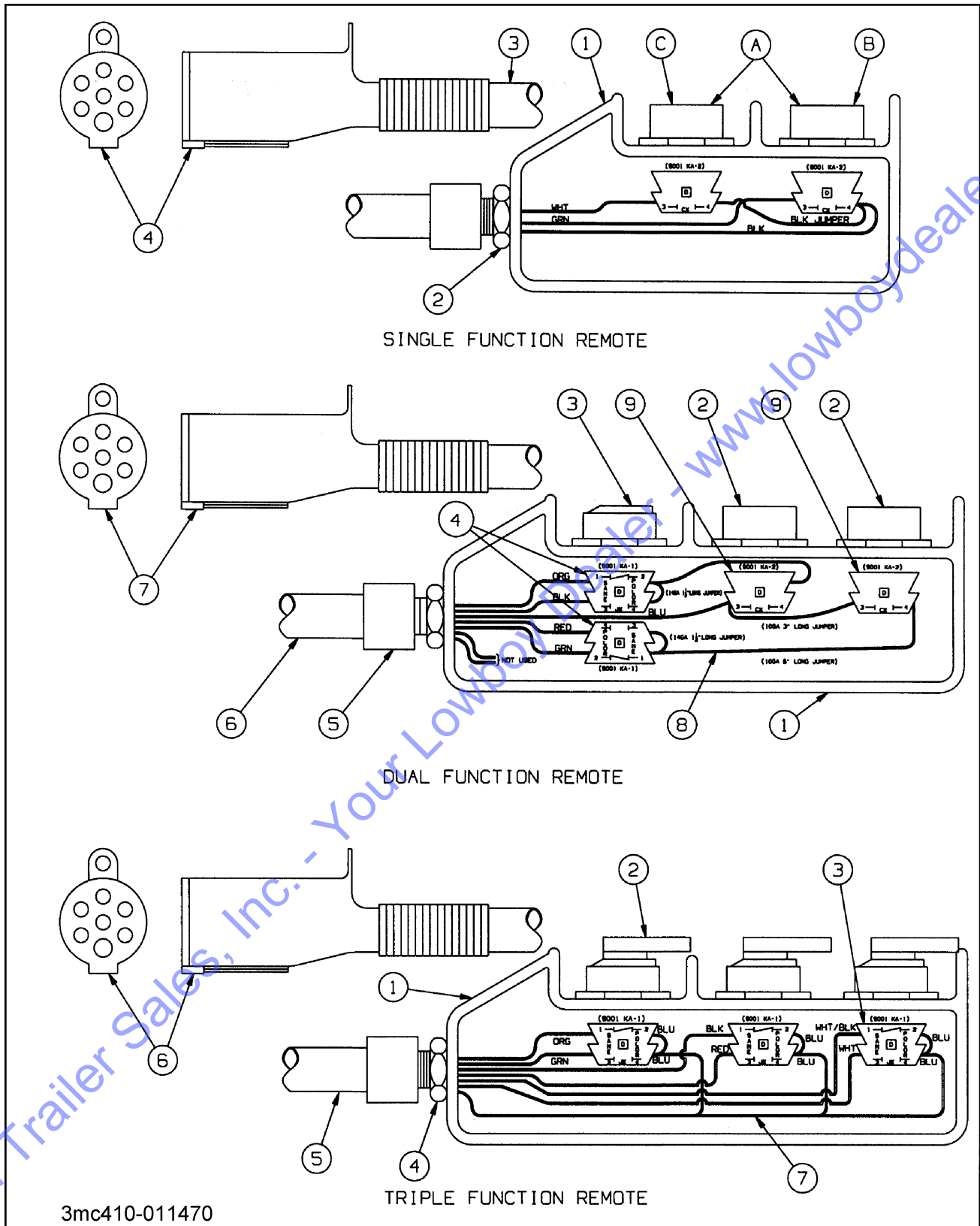


Figure 1-43 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE

ITEM	PART NO.	DESCRIPTION	QTY.
1	3-765-010001	SWITCH REMOTE CONTROL ASSY	
	3-209-010003	PUSH BUTTON STATION	1
	106069	SHORT RING NUT FOR BUTTON	1
A	9001-BW70YU	CONTROL STATION SQD(CONTACT BLKS INCL)	1
B	9001-B256	REVERSE LEGEND	1
C	9001-B255	FORWARD LEGEND	1
2	DB-10	STRAIN RELIEF CORD CONN	1
3	3-156-010007600	THREE CONDUCTOR WIRE	1
4	59P8	TRAILER CONN PLUG	1

WIRED REMOTE CONTROL, DUAL

ITEM	PART NO.	DESCRIPTION	QTY.
1	3-209-010004	CONTROL ELECT DUAL FUNC. RMT	
	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010080	ELECTRICAL PUSH BUTTON UNITS	2
	106069	SHORT RING NUT FOR BUTTON	2
3	3-272-010079	ELECTRICAL CONTACT OPERATOR	1
4	3-272-010078	ELECTRICAL CONTACT BLOCK	2
5	106-0079	CONNECTOR 1/2 CORD T&B 2522	1
6	3-156-010043	CABLE 16AWG X 7 CONDUCTOR	50
7	59P8	TRAILER CONN PLUG	1
8	1-879-010011	WIRE BLACK 14AWG	2
9	3-272-010095	ELECTRICAL CONTACT BLOCK	2
10	3-573-010296	DECAL, WINCH TILT	1
	3-573-010391	DECAL, REMOTE WINCH TENSION	1
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE (DECALS NOT SHOWN) (SEE PAGE 1-91)	1

WIRED REMOTE CONTROL, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
1	3-209-010006	CONTROL ELECT TRIPLE FUNC. RMT	
	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010121	ELECT. CONT. OPER. 3 WAY	3
	106068	TALL RING NUT FOR BUTTON	2
3	3-272-010078	ELECTRICAL CONTACT BLOCK	3
4	106-0079	CONNECTOR 1/2 CORD T&B 2522	1
5	3-156-010043	CABLE 16AWG X 7 CONDUCTOR	50
6	59P8	TRAILER CONN PLUG	1
7	1-879-010008	WIRE BLUE 14AWG	2
8	109268	DECAL, WINCH UNDERCARRIAGE TENSION	1
	109269	DECAL, WINCH UNDERCARRIAGE DOCK LIFT ARM (DECALS NOT SHOWN) (SEE PAGE 1-91)	1

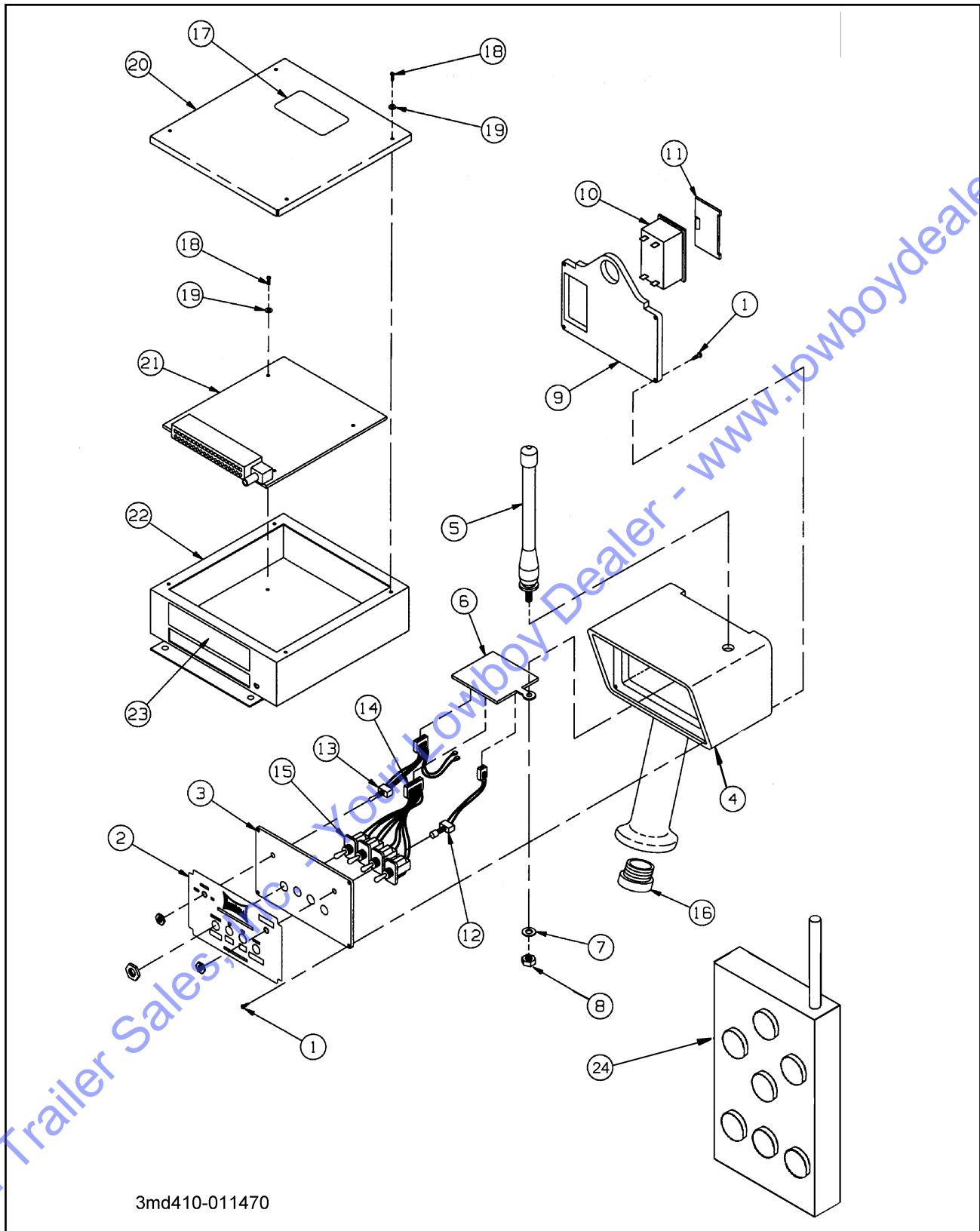


Figure 1-44 Wireless Remote Control

WIRELESS RADIO REMOTE CONTROL

ITEM	PART NO.	DESCRIPTION	QTY.
	109098	CONTROL (MICROTRONICS # *P-MT-STD-DF930)	
	T*P-MT-STD-DF930	TRANSMITTER (ITEMS 1 - 16)	1
1	H068	SCREW, #6 X 1/2" SHEET METAL	8
2	**	DECAL, FACEPLATE	1
3	P003	METAL PLATE	1
4	E007	PISTOL GRIP HOUSING	1
5	A001	ANTENNA	2
6	**	TRANSMITTER PC BOARD	1
7	H048	PLASTIC WASHER	1
8	H046	NUT, 1/4" - 28 BRASS	1
9	E007	BACK PLATE, PISTOL GRIP	1
10	E002	BATTERY COMPARTMENT	1
11	H015	BATTERY DOOR	1
12	AY102	EMERGENCY STOP SWITCH W/ HARNESS	1
13	AY103	POWER SWITCH W/ HARNESS	1
14	AY109	TOGGLE WIRING HARNESS (SWITCHES TO PC BOARD)	AR
15	S005	TOGGLE SWITCH	AR
16	H018	PISTOL GRIP HANDLE END CAP	1
	R*P-MT-STD-DF	RECEIVER (ITEMS 17 - 23)	1
17	LB004	FCC LABEL	1
18	H038	SCREW, #6	8
19	H039	WASHER, #6 STAR	8
20	E001	LID, RECEIVER	1
21	**	RECEIVER PC BOARD, 1	1
22	E001	HOUSING, RECEIVER	1
23	LB005	OUTPUT LABEL, RECEIVER	1
24	112485	CONTROL, RADIO REMOTE HANDHELD (MICROTRONICS # 7MMLND-STD-MF-D)	1
	115766	HANDHELD TRANSMITTER	

* 4 FOR DUAL REMOTE
6 FOR TRIPLE REMOTE
8 FOR QUAD REMOTE

** GIVE SERIAL NUMBER OF REMOTE CONTROL UNIT WHEN ORDERING REPLACEMENT PC BOARDS OR FACEPLATE DECAL.



LANDOLL®

930

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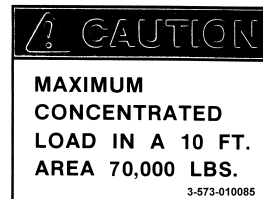
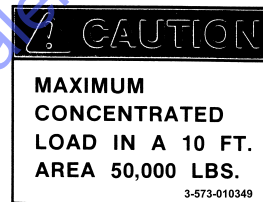
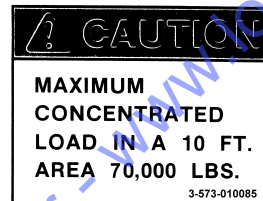
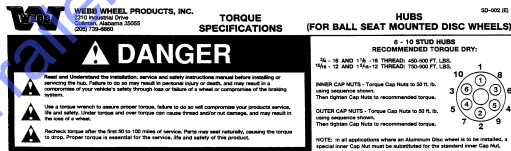
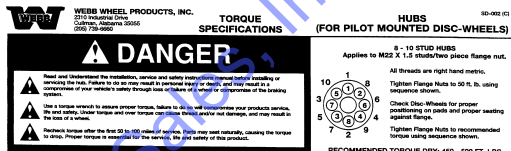
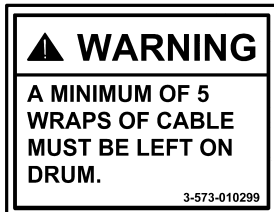


Figure 1-45 Decals

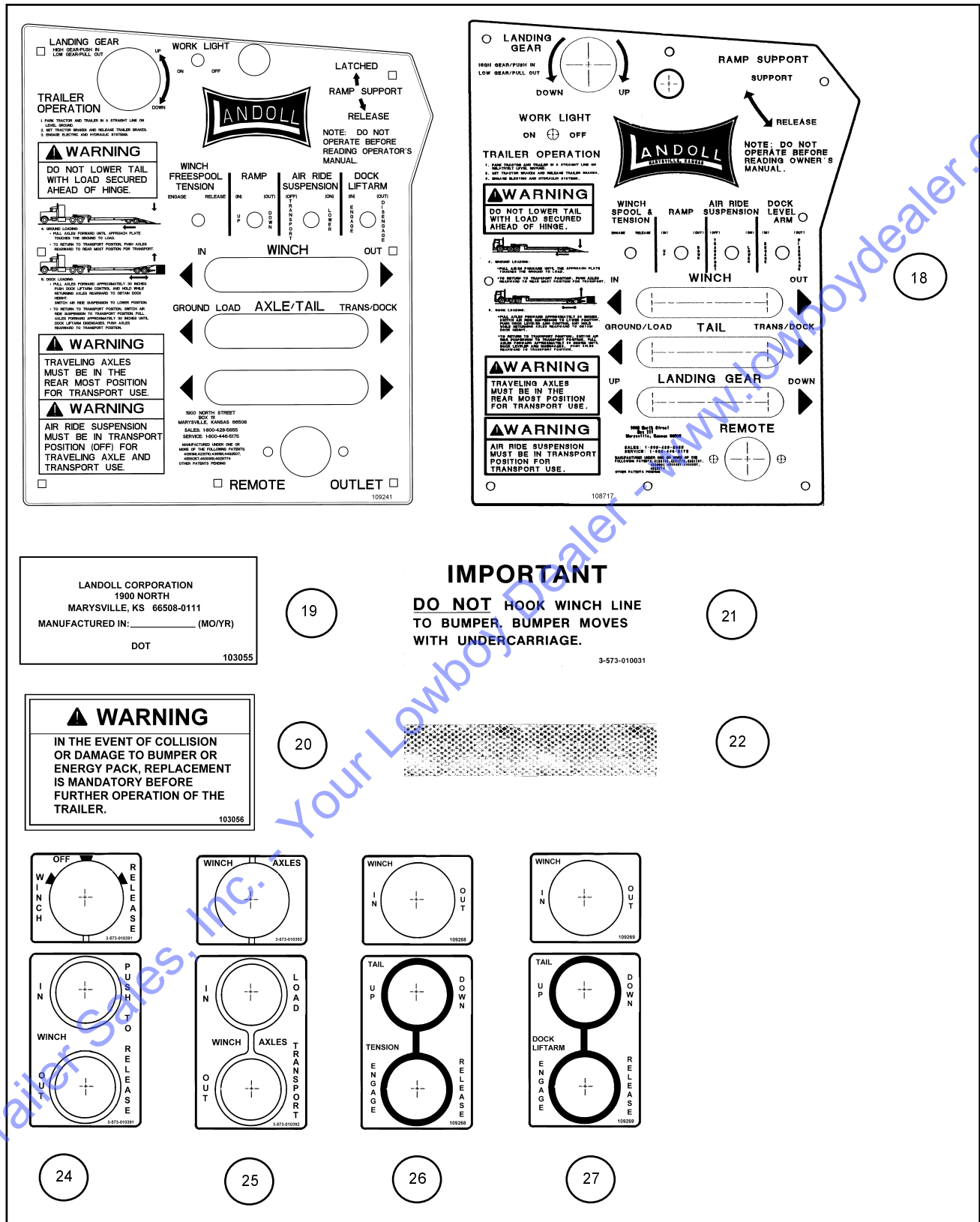
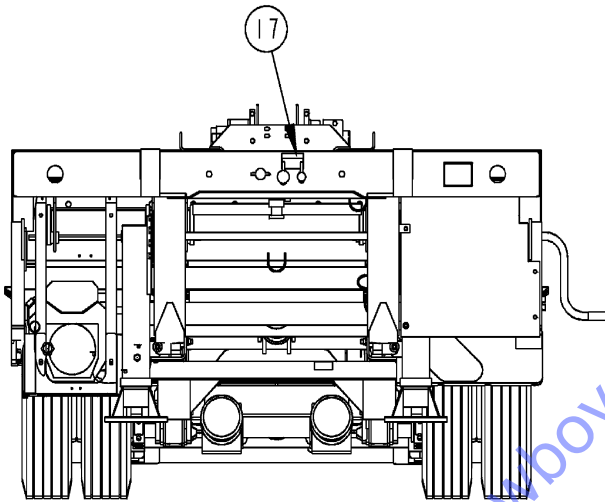
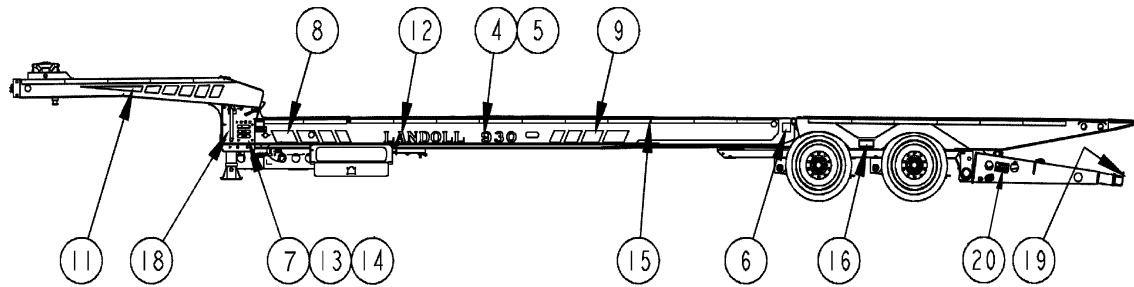
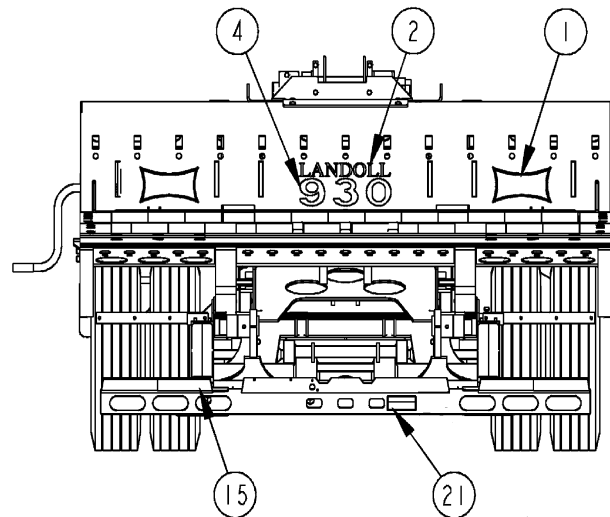


Figure 1-46 Decals



FRONT



REAR

m113377b

Figure 1-47 Decal Placement

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	108713	DECAL PLACEMENT	
1	1-573-010476	DECAL, BOW-TIE (BLACK)	2
	1-573-010480	DECAL, BOW-TIE (WHITE)	2
2	1-573-010477	DECAL, LANDOLL 2-7/16" (BLACK)	1
	1-573-010481	DECAL, LANDOLL 2-7/16" (WHITE)	1
4	108507	DECAL, 930 5" (BLACK)	3
	108506	DECAL, 930 5" (WHITE)	3
5	109403	DECAL, 950 5" (BLACK)	3
	109402	DECAL, 950 5" (WHITE)	3
6	2-573-010335	DECAL, DANGER PINCH	2
7	3-573-010299	DECAL, WARNING WINCH CABLE	1
8	3-573-010040	DECAL, FRONT STRIPE (LEFT BLACK)	2
	3-573-010042	DECAL, FRONT STRIPE (LEFT WHITE)	2
9	3-573-010041	DECAL, FRONT STRIPE (RIGHT BLACK)	2
	3-573-010043	DECAL, FRONT STRIPE (RIGHT WHITE)	2
10	3-573-010044	DECAL, TAPERED STRIPE (LEFT BLACK)(NOT SHOWN)	1
	3-573-010046	DECAL, TAPERED STRIPE (LEFT WHITE)(NOT SHOWN)	1
11	3-573-010045	DECAL, TAPERED STRIPE (RIGHT BLACK)	1
	3-573-010047	DECAL, TAPERED STRIPE (RIGHT WHITE)	1
12	3-573-010048	DECAL, LANDOLL 5" BLACK	2
	3-573-010049	DECAL, LANDOLL 5" WHITE	2
13	3-573-010297	DECAL, CAUTION 40,000#/10FT (TANDEM)	2
	3-573-010349	DECAL, CAUTION 50,000#/10FT (TANDEM)	2
	3-573-010085	DECAL, CAUTION 70000#/10FT (TRIPLE)	2
14	3-573-010350	DECAL, GOTCHA PULL	2
15	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	AR
16	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	REF
	3-573-010211	DECAL, TORQUE SPEC 6-10 STUD HUB	REF
17	105822	DECAL, HYD COUPLER	REF
18	108717	PLACARD, CONTROL PANEL (PRIOR 1/1/00)	1
	109241	PLACARD, CONTROL PANEL (AFTER 1/1/00)	1
19	103055	DECAL, ENERGY CERT.	1
20	103056	DECAL, ENERGY BUMPER WARNING	1
21	3-573-010031	DECAL, BUMPER	1
22	3-573-010378	DECAL, 2" REFLEXITE TAPE WHITE	AR
23	100600	DECAL, WARNING WINCH (BRADEN WINCH ONLY) (NOT SHOWN)	REF
24	3-573-010391	DECAL, REMOTE WINCH/ TENSION (NOT SHOWN)	REF
25	3-573-010392	DECAL, REMOTE WINCH/UNDERCARRIAGE (NOT SHOWN)	REF
26	109268	DECAL, WINCH/UNDERCARRIAGE/TENSION (NOT SHOWN)	REF
27	109269	DECAL, WINCH/UNDERCARRIAGE/DOCK LIFTARM (NOT SHOWN)	REF

* If trailer is repainted or if decals become illegible, order new ones from the factory and replace.

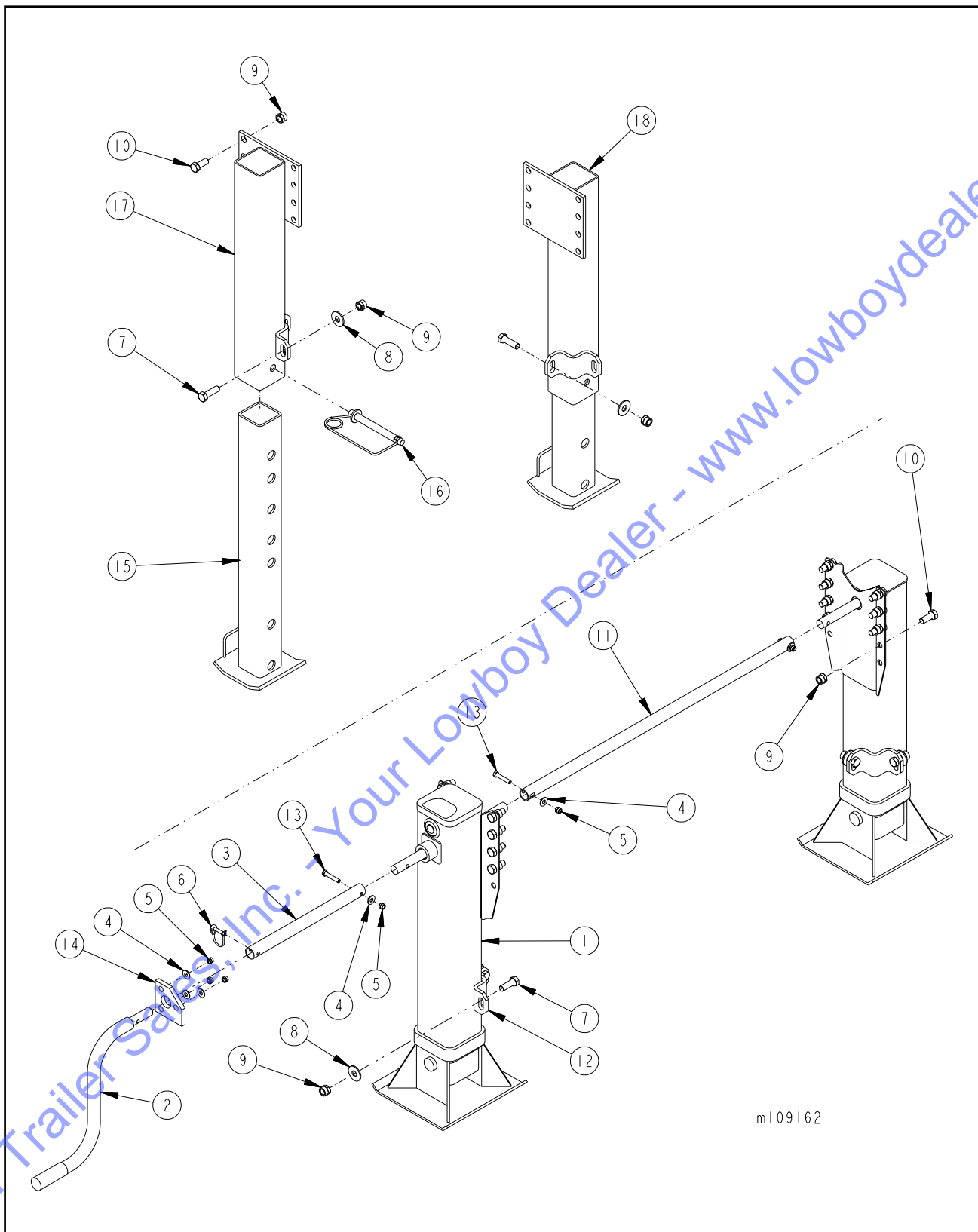


Figure 1-48 Landing Gear

LANDING GEAR

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INSTALLATION, PIN DROP	
	109162	LANDING GEAR INSTALLATION (OPTION)	
1	109709	LANDING GEAR 2 SPEED JOST (SEE PAGE 1-97)	1
2	109161	HANDLE, CRANK 930 MODIFICATION	1
3	109159	TUBE, RD EXTENSION	1
4	1-861-010032-11	WASHER, FLAT 3/8	6
5	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	6
6	111859	PIN, ROUND LOCKING 5/16 X 1-1/2	1
7	1-654-010059-04	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR5	4
8	1-861-010032-19	WASHER, FLAT 5/8	4
9	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
10	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
11	109160	CROSS-SHAFT LANDING GEAR	1
12	104238	ANCHOR, LOWER, BOLT-ON	2
13	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3
14	3-352-010041	GUIDE, HANDLE	1
15	3-725-010058	STAND WELDMENT PARK INSIDE (AFTER 7/27/00)	2
	3-311-010145	PARKING STAND (PRIOR 7/27/00)	2
16	346SL	LOCK HITCH PIN	2
17	112678	PARK STAND WELDMENT LH (FRONT PIN)	1
	104235	PARK STAND WLDMT LH BOLT ON (PRIOR 7/27/00)	1
18	112679	PARK STAND WLDMT RH (FRONT PIN)	1
	104236	PARK STAND WLDMT RH BOLT-ON (PRIOR 7/27/00)	1

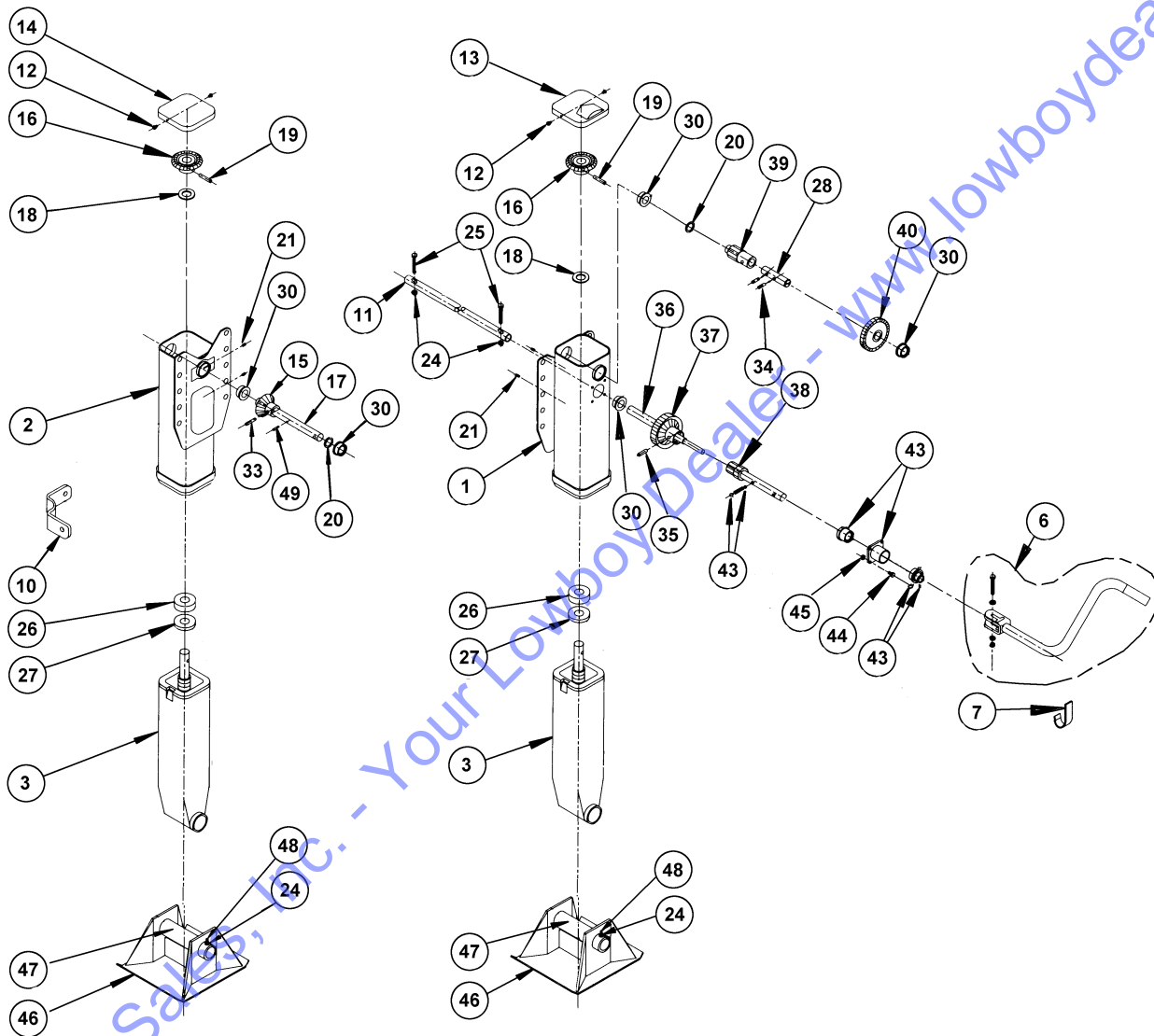


Figure 1-49 Crank Landing Gear

CRANK LANDING GEAR

ITEM	PART NO.	DESCRIPTION	QTY.
	109709	LANDING GEAR INSTALLATION-660	
1	D10201.2	OUTER HOUSING - 2 SPEED	1
2	D10116.2	OUTER HOUSING - 1 SPEED	1
3	C10140.2	INNER LEG ASSEMBLY - STANDARD	2
6	109161	CRANK 930 MODIFICATION	1
7	109711	CRANK HANGER	1
10	109712	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	B10229.S	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	B10036	SHOE AXLE	2
48	A10037.3	HEX HEAD BOLT	2
49	A10054.6	ROLL PIN - 1/4 X 1-1/4	1

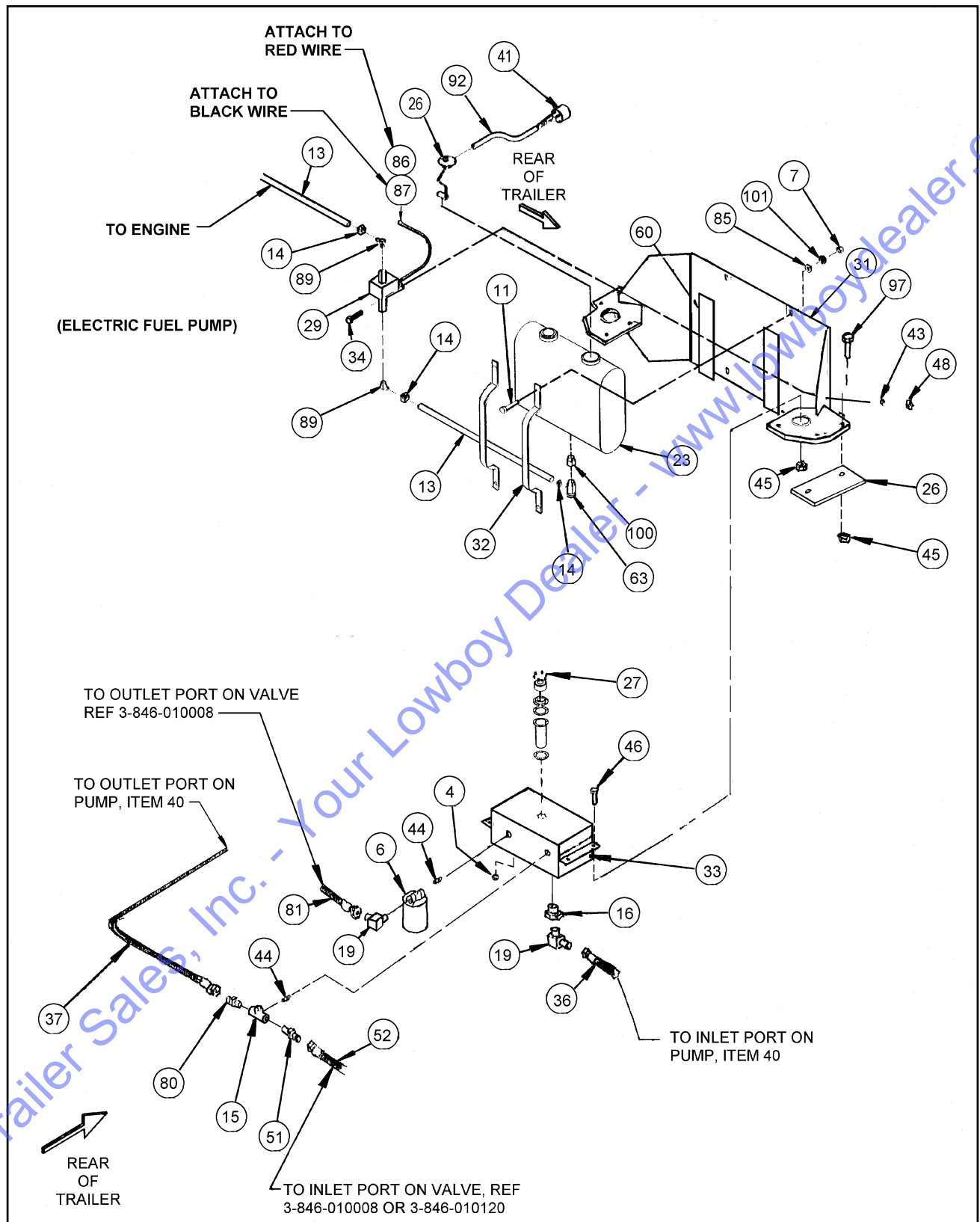


Figure 1-51 Hydraulic Engine, 22HP Slope (2 of 2)

HYDRAULIC ENGINE 22HP SLOPE

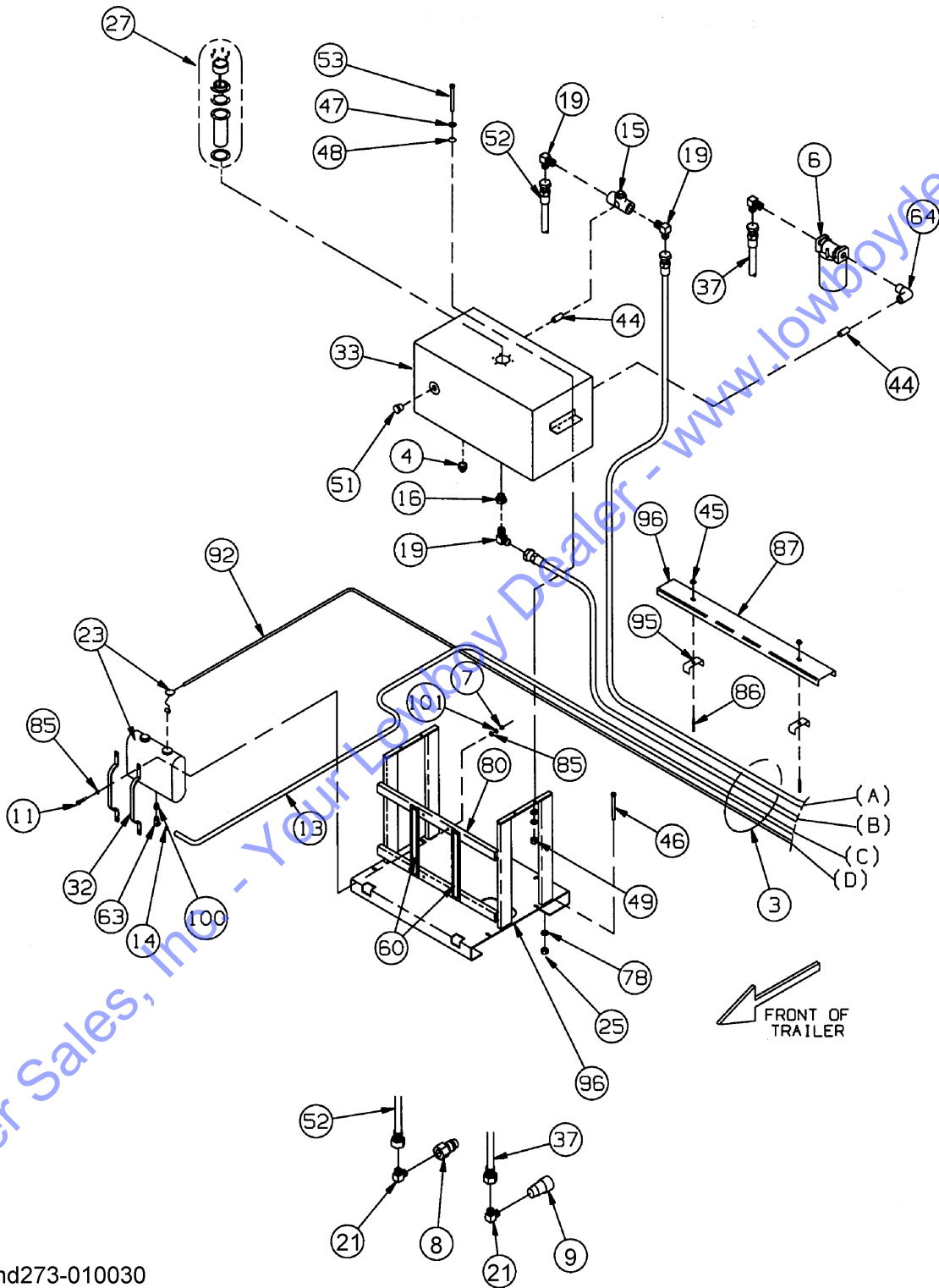
ITEM	PART NO.	DESCRIPTION	QTY.
	109165	ENGINE PACKAGE GAS 22HP (PRIOR 1/1/00)	
	110709	ENGINE PACKAGE GAS 22HP (AFTER 1/1/00)	
1	3-482-010470	MACHINE MOUNT 40 DUROMETER	4
2	239-3646-4	TERMINAL 14 AWG TO #10 RING (W/OPTIONAL GAUGES ONLY)	2
3	1-796-010003-01	TIE STRAP PLASTIC (NOT SHOWN)	10
4	1-560-010002-07	PLUG PIPE 1-1/4 SQ. HEAD	1
5	3-565-011311	PLATE ENGINE MOUNT 660-GAS	2
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-512-010007-06	NUT HEX 5/16-18	12
8	3-573-010396	PLACARD CONTROL KOHLER 660 (109165)	1
	109210	PLACARD GAS CONTROL (110709)	1
9	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4	11
11	1-654-010049-07	SCREW HEX HEAD CAP 5/16-18X1-1/2 GR5	12
12	3-222-010157	COVER FRONT 17 HP DIESEL	1
13	104-0505	HOSE FUEL LINE	AR
14	105-0105	CLAMP HOSE IDEAL 6203	4
15	125130	RD12D HYD BY-PASS SRDD	1
16	1-1/4X3/4 BUSH	BUSHING PIPE	1
17	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	3
18	3-155-010025	CABLE UTILITY CHOKE	1
19	2024-12-12S	ADAPTER 90 3/4 MPT X 3/4M	2
20	3-323-010022	GAUGE AMMETER DC	1
21	3-547-010036	PANEL TRIM 600 - GAS ENGINE (109165)	1
	110704	PANEL TRIM (110709)	1
22	2481X	BATTERY, 12V	1
23	3-783-010010	TANK FUEL 5 GAL(W/OPTIONAL GAUGES ONLY)	1
24	3-120-010124	BATTERY CLAMP BRACKET	1
25	1-512-010005-09	NUT HEX LOCK 1/2-13 GR8	3
26	109216	CLAMP, HYDR TANK	2
27	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
28	3-201-010002	CONDUIT FLEX PLASTIC (NOT SHOWN)	AR
29	*3-273-010020	ENGINE KOHLER CH22ACLD GAS	1
30	3-482-010462	MOUNT KOHLER 22HP WELDMENT	1
31	107597	MOUNT WELDMENT	1
32	3-482-010524	MOUNT BOLT ON STRAP FUEL TANK (W/OPT GAUGES ONLY)	2
33	3-786-010005	TANK HYD 5TH WHL	1
34	1-654-010047-06	SCREW HEX HEAD CAP SP 1/4-20 X 1 GR5	8
35	202702-12-12S	ADAPTER #12 BOSS TO #12 TUBE	1
36	109166	HOSE ASSEMBLY 3/4 X 66	1
37	109169	HOSE ASSEMBLY 1/2 X 66	1
38	110-4333	KEY 3/16 X 1 LG PUMP SHAFT	1
39	3-482-010420	MOUNT HYD PUMP 17HP DEUTZ	1
40	3-591-010022	PUMP HYDR .77 CID-GEAR	1
41	1709AS911-01	GAUGE FUEL LEVEL(W/OPTIONAL GAUGES ONLY)	1
43	1-861-010034-09	WASHER SPLIT LOCK 1/4	8

HYDRAULIC ENGINE 22HP SLOPE

ITEM	PART NO.	DESCRIPTION	QTY.
44	3/4NIPPLE	NIPPLE ALL THREAD	2
45	1-510-010001	NUT FLANGE LOCK 3/8-16	14
46	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	11
47	1-861-010032-11	WASHER FLAT 3/8	13
48	1-512-010007-05	NUT HEX 1/4-20	2
49	111276	SCREW RD HEAD SQ NECK 3/8-16X1 GR5	2
50	110-4349	KEY SQUARE 3/8 X 3/8 X 2-1/2 LG ST	1
51	2021-12-8S	ADAPTER	1
52	1-397-010301040	HOSE ASSEMBLY 40	1
57	239-8113-48	CABLE ASSEMBLY BATTERY NEG	1
59	514-9045-36	CABLE ASSEMBLY BATTERY POSITIVE	1
60	238 9942	TAPE, INSULATION	AR
61	**3-765-010050	IGNITION SWITCH KOHLER MH22	1
62	3-220-010002	COUPLING FLEXIBLE 1-7/16X3/4	1
63	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	1-654-010053-05	SCREW HEX HEAD CAP 7/16-14 X 1-1/2 GR5	4
67	1-861-010034-12	WASHER SPLIT LOCK 7/16	4
68	1-861-010032-13	WASHER FLAT 7/16W	4
71	514-3085-10	LIGHTING KIT	REF
73	3-755-010211	SUPPORT ENGINE GAS 660	1
74	CA-1595	MACHINE MOUNT 50 DUROMETER	1
77	3-155-010012	CABLE THROTTLE	1
78	1-861-010032-15	WASHER FLAT 1/2	1
79	2062-8-8S	ADAPTER 90 #8 BOSS X #12 TUBE	1
80	2021-12-12S	ADAPTER	1
81	1-397-010304048	HOSE ASSEMBLY 48	1
85	1-861-010032-09	WASHER FLAT 5/16	4
86	STP-164	BULLET CONNECTOR FEMALE (W/OPTIONAL GAUGES)	1
87	STP-147	TERMINAL BULLET ELECTRICAL(W/OPTIONAL GAUGES)	2
89	1-297-010034-01	FITTING BRASS 90	2
90	3-368-010231	HARNESS ASSEMBLY ENG IGN UNDER MT 600	1
91	3-368-010254	HARNESS ADAPTER ASSEMBLY ENG LIGHT PKG	1
92	3-368-010255	HARNESS ASSY ENG FUEL SDR600 (W/OPT GAUGES)	1
93	3-368-010259	HARNESS ENGINE INST GRD-600 (W/OPTIONAL GAUGES)	1
94	26331	LIGHT PANEL	1
95	2-181-010001	HOSE CLAMP	1
96	1-822-010002	TRIM LOK 3/16	2
97	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	5
98	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR 5	5
100	1-562-010001-09	BUSHING PIPE 1/4 X 1/8 (W/OPTIONAL GAUGES)	1
101	1-861-010034-10	WASHER SPLIT LOCK 5/16	12

* PARTS BREAKDOWN FOR P/N 3-273-010020 AS SHOWN BELOW:

24 786 07	MUFFLER - PEPPERPOT	1
25 559 01	FUEL PUMP ELECTRIC	1
**3-765-010050	SWITCH, IGNITION CH (25 099 04)	1



3md273-010030

Figure 1-52 Hydraulic Engine, Split Mount (1 of 2)

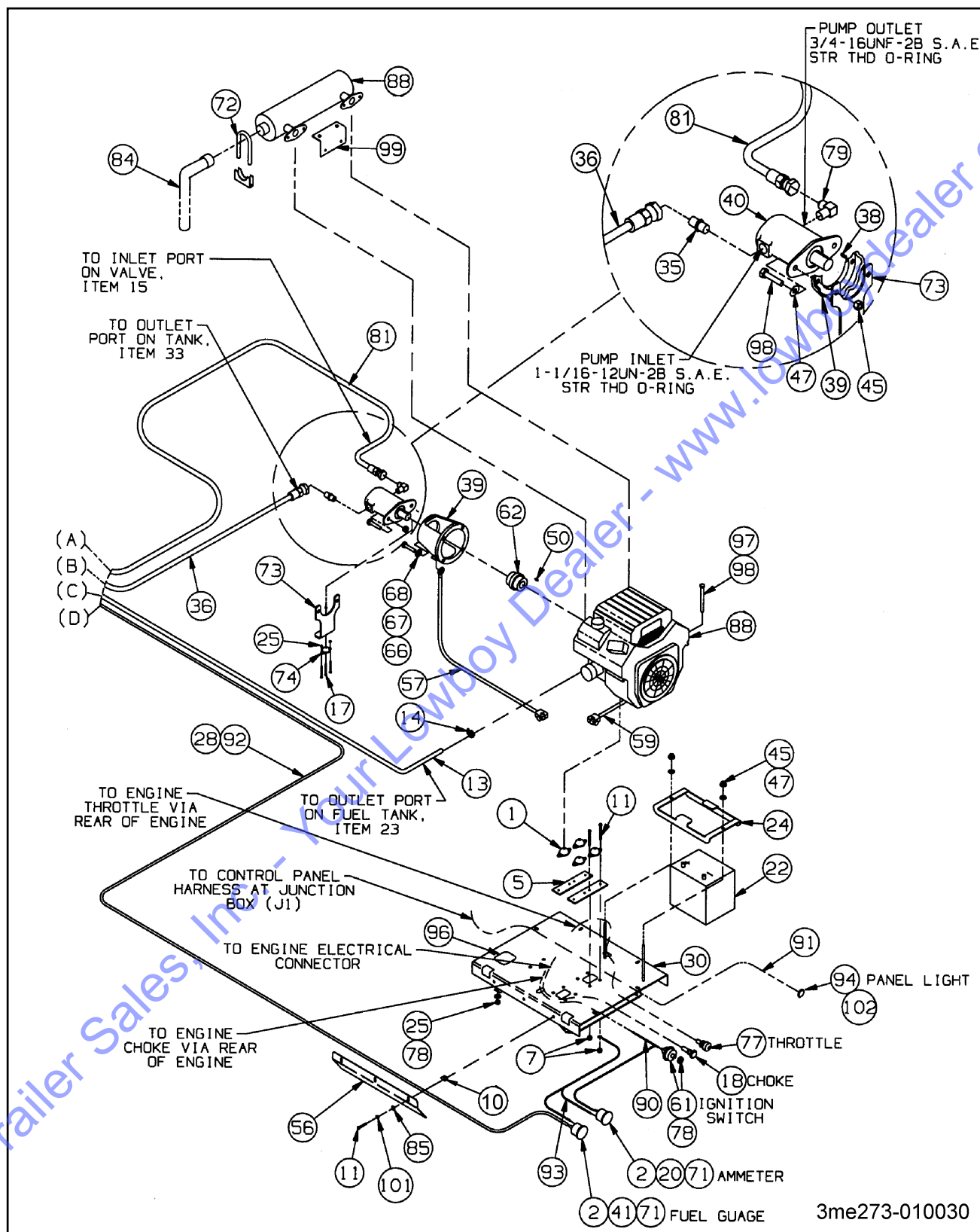


Figure 1-53 Hydraulic Engine, Split Mount (2 of 2)

HYDRAULIC ENGINE SPLIT MOUNT

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010030	ENGINE PACKAGE 25 HP SPLIT MT	
1	3-482-010470	MACHINE MOUNT 40 DROMETER	4
2	239-3646-4	RING TERMINAL 14 AWG X #10 RING	2
3	1-796-010003-02	TYTON STRAP	A/R
4	1-560-010002-05	PLUG PIPE 3/4 NPT	1
5	3-565-011311	PLATE ENG MOUNT	2
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-512-010007-06	NUT, HEX 5/16 - 18 GRB	12
8	S25F-6	COUPLER, FEMALE HALF(NOT USED W/ ENGINE PKG.) (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
	105482	COUPLER, DUST CAP FEMALE	1
9	S21F-6	COUPLER, MALE HALF(NOT USED W/ ENGINE PACKAGE) (BEFORE 7/98)	1
	105479	COUPLER, FLAT FACE MALE (AFTER 7/98)	1
	105481	COUPLER, DUST CAP MALE	1
10	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	12
11	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	15
12	3-274-010032	ENG COVER ASSEMBLY - SPLIT MOUNT (NOT SHOWN)	REF
13	104-0505-108	HOSE FUEL LINE 1/4 ID X 108	1
14	105-0105	CLAMP HOSE IDEAL 6203	2
15	125130	RD12D HYD BY PASS SRDD	1
16	1-1/4 X 3/4 BUSH	BLACK PIPE BUSHING	1
17	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	3
18	3-155-010025	CABLE UTILITY CHOKE	1
19	2024-12-12S	ADAPTER OP 3/4 X 1/2 JIC	6
20	3-323-010022	GAUGE AMMETER DC 30-0-30	1
21	2062-12-12S	ADAPTER 90	2
22	2481X	BATTERY 12 VOLT	1
23	3-783-010010	TANK FUEL 5 GAL	1
24	3-120-010471	BRACKET BATTERY CLAMP	1
25	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	11
27	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
28	3-201-010002	CONDUIT PLASTIC FLEX 3/8	5
30	3-482-010529	MOUNT SPLIT POWER CENTER ENG	1
32	3-482-010524	MOUNT BOLT ON STRAP FUEL TANK, 5 GAL	2
33	3-786-010074	TANK HYD WELDMENT	1
35	202702-12-12S	ADAPTER #12 BOSS TO #12 TUBE	1
36	1-397-010305072	HOSE ASSEMBLY 1/2 X 72	1
37	1-397-010304060	HOSE ASSEMBLY 3/4 X 60	1
38	110-4333	KEY 3/16 X 1 LG PUMP SHAFT	REF
39	3-482-010420	MOUNT HYD PUMP 17 HP DSL	1
40	3-591-010022	PUMP HYDR .77 CID - GEAR	1
41	1709AS911-01	GAUGE FUEL LEVEL	1
44	3/4 NIPPLE	NIPPLE ALL THREAD	2
45	1-510-010001	NUT FLANGE LOCK 3/8-16	6
46	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
47	1-861-010032-10	WASHER FLAT 3/8N	10
48	805-2	BUSHING, STEP	8

HYDRAULIC ENGINE SPLIT MOUNT

ITEM	PART NO.	DESCRIPTION	QTY.
49	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
50	110-4349	KEY SQ 3/8 X 3/8 X 2-1/2 LG ST	1
51	1-560-010002-04	PLUG PIPE BLACK 1/2	1
52	1-397-010372072	HOSE ASSEMBLY 1/2 X 72	1
53	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	4
56	3-681-010124	SHIELD, SPLIT ENG PACKAGE	1
57	239-8113-36	CABLE, BATTERY NEG 36"	1
59	514-9045-36	CABLE, BATTERY POS 36"	1
60	238-9942	TAPE, INSULATION	2
61	3-765-010050	IGNITION SWITCH, KOHLER CH22	REF
62	3-220-010002	FLEXIBLE COUPLING 1-7/16 X 3/4	1
63	6600	VALVE SHUT-OFF GAS	1
64	3/4 ST EL	PIPE FITTING 3/4 STREET ELBOW	1
66	1-654-010053-05	SCREW, HEX HEAD CAP 7/16-14 X 1-1/2 GR5	4
67	1-861-010034-12	WASHER SPLIT LOCK 7/16	4
68	1-861-010032-12	WASHER FLAT 7/16	4
71	514-3085-10	LIGHTING KIT	REF
72	3-181-010038	CLAMP MUFFLER	1
73	3-755-010211	SUPPORT, ENGINE GAS	1
74	CA-1595	MACHINE MOUNT 50 DUROMETER	1
77	3-155-010012	CABLE THROTTLE	1
78	1-861-010032-15	WASHER FLAT 1/2 W	9
79	2062-8-8S	ADAPTER 90	1
80	3-482-010528	MOUNT SPLIT POWER CENTER TANKS	1
81	1-397-010306090	HOSE ASSEMBLY 1/2 X 90	1
84	3-276-010693	EXTENSION, EXH 317A 20HP SLOPE	1
85	1-861-010032-09	WASHER FLAT 5/16W	19
86	101-017-186	STUD WELD 3/8-16 X 1-1/2	2
87	3-848-010049	GUARD SPLIT ENG LINES 600	1
88	*3-273-010028-02	ENGINE KOHLER CH25 W/C/P X 1-1/4 SHAFT	1
90	3-368-010230	HARNESS ASSEMBLY ENG IGN SPLIT DECK	1
91	3-368-010288	HARNESS ASSEMBLY SPLIT ENG LT	1
92	3-368-010264	HARNESS ASSEMBLY SPLIT ENG FUEL SDR	1
93	3-368-010259	HARNESS ASSEMBLY INST GRD	1
94	26331	PANEL, LIGHT	1
95	2-181-010001	HOSE CLAMP	2
96	1-822-010002	TRIM LOCK 3/16	3
97	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	1
98	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	5
99	3-482-010537	MOUNT, EXHAUST CH25 KOHLER(25 HP ENG PKG)	1
100	1-562-010001-09	PIPE BUSHING HEX BRASS 1/4 X 1/8	1
101	1-861-010034-10	WASHER LOCK 5/16	15
102	STP-147	TERMINAL, BULLET ELECTRICAL	1

* PARTS BREAKDOWN FOR P/N 3-273-010028-02 AS SHOWN BELOW:

24 786 11	EXHAUST KIT, CANISTER	1
**3-765-010050	SWITCH, IGNITION CH (25 099 04)	1

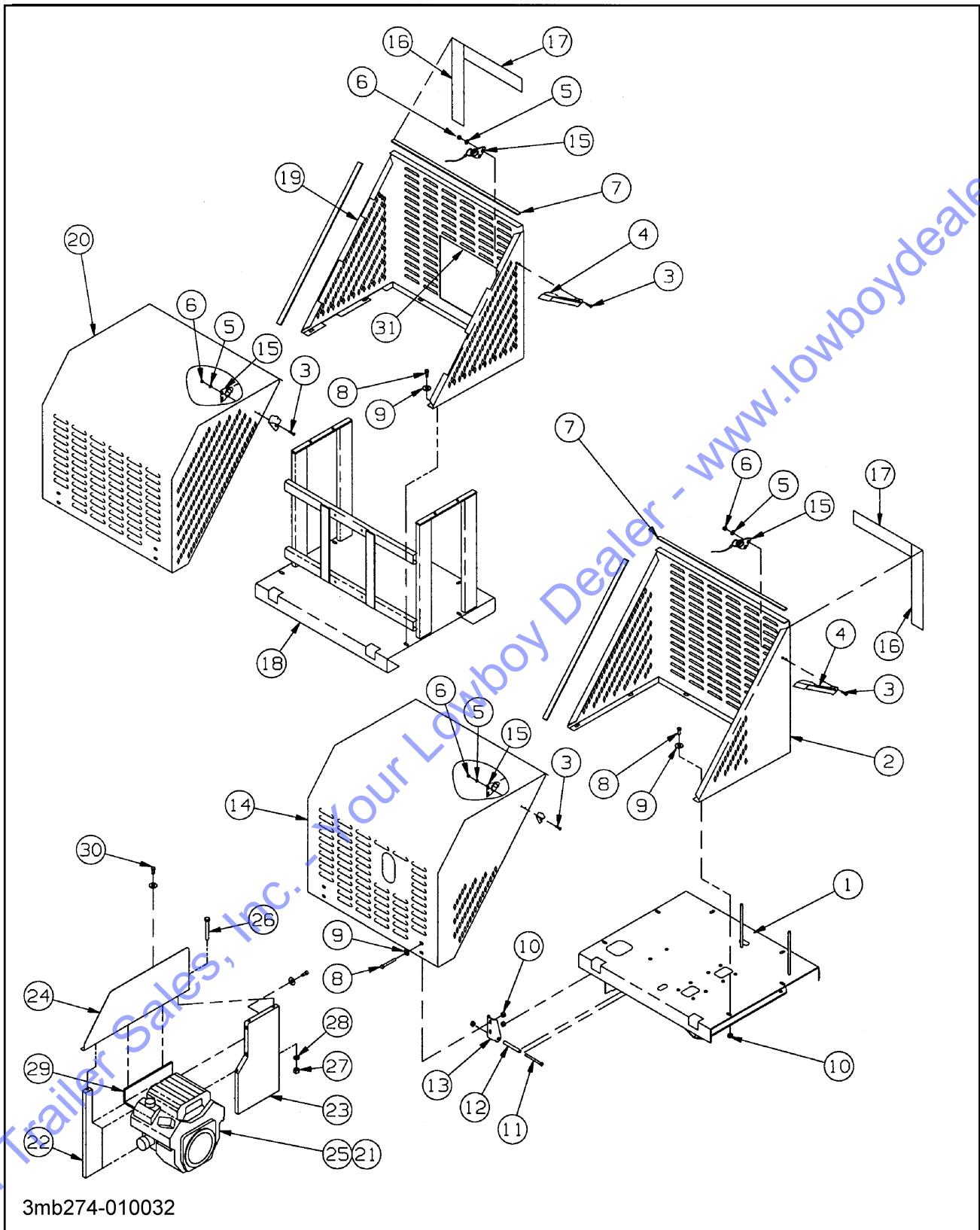


Figure 1-54 Engine Cover, Split Mount

ENGINE COVER, SPLIT MOUNT

ITEM	PART NO.	DESCRIPTION	QTY.
	3-274-010032	ENGINE COVER ASSEMBLY	
1	3-482-010529	MOUNT WELDMENT, ENGINE	REF
2	3-222-010178	COVER BACK SPLIT MOUNT ENG COVER	1
3	110-0116	SCREW ROUND HEAD CAP 10-24X3/4	16
4	3-443-010018	LATCH FLEXIBLE DRAW LEVER ASSIST	4
5	110-0253	WASHER FLAT 3/16	16
6	1-512-010004-03	NUT HEX LOCK #10-24 GRA	16
7	1-659-010011032	SEAL 32 IN NEOPRENE SPONGE	6
8	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16X1-1/4 GR5	20
9	1-861-010032-11	WASHER FLAT 3/8	20
10	1-510-010001	NUT FLANGE LOCK 3/8-16	24
11	3/8-16X5-1/2CS5	SCREW HEX HEAD CAP 3/8-16X5-1/2 GR5	4
12	3-831-010158	TUBE PIVOT HINGE BRACKET	4
13	109641	BRACKET HINGE	4
14	3-222-010177	COVER WELDMENT SPLIT MOUNT POWER CENTER	1
15	3-744-010041	STRAP ASSY ENGINE PACKAGE COVER	4
16	3-573-010378012	DECAL REFLEXITE WHITE	2
17	3-573-010378010	DECAL REFLEXITE WHITE	2
18	3-482-010528	MOUNT SPLIT POWER CENTER TANKS	REF
19	3-222-010192	COVER BACK SPLIT POWER CENTER -HYD TANK	1
20	3-222-010193	COVER WELDMENT FRONT POWER CENTER-TANK	1
21	3-273-010028-02	ENGINE KOHLER 25 HP GAS	REF
22	3-045-010009	BAFFLE LH 600 KOHLER	1
23	3-045-010010	BAFFLE RH 600 KOHLER	1
24	3-045-010011	BAFFLE TOP 600 KOHLER SPLIT PACKAGE	1
25	3-273-010020-02	ENGINE KOHLER 22 HP GAS	REF
26	1-654-010047-03	SCREW HEX HEAD CAP 1/4-20 X 5/8 GR5	3
27	1-512-010007-05	NUT HEX 1/4-20	3
28	1-861-010034-09	WASHER SPLIT LOCK 1/4	12
29	3-681-010118	SHIELD DUCT KIT KOHLER CH25	1
30	1-654-010159-04	SCREW, HEX HEAD CAP M6-1 X 22	9
31	1-659-010013	SEAL, NEOPRENE SPONGE	39

HYDRAULIC ENGINE, FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010027-01	ENGINE PACKAGE FRONT MOUNT 20HP	
1	CA-1595	MACHINE MOUNT 40 DUROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	A/R
4	1-560-010002-07	PIPE PLUG BUSHING 1-1/4 X 11-1/2	1
5	1-1/4X3/4BUSH	BLACK PIPE BUSHING 1-1/4 X 3/4	1
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-879-010004	WIRE RED 14AWG	A/R
8	1-879-010006	WIRE GREEN 14AWG	A/R
9	1-879-010010	WIRE WHITE 14AWG	A/R
10	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	12
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	12
12	1-861-010032-15	WASHER FLAT 1/2	4
13	104-0505	HOSE PRESS FUEL 1/4	AR
14	105-0105	CLAMP HOSE IDEAL 6203	2
15	125130	RD12D HYDRAULIC BY PASS SRDD	1
16	134-4560	GUARD ONAN	1
17	2047-12-12S	PIPE SWIVEL 90 MALE	2
18	2047-12-16S	ELBOW 90 SWIVEL PIPE 3/4-1	1
19	1-007-010013	SWIVEL 90 1/2FPT 3/4MPT	2
20	2081-16-8S	REDUCER EXT/ INT PIPE	1
21	239-8113-48	CABLE BATTERY (NEG) QVX ENG.	1
22	2481X	BATTERY 12 VOLT	1
24	3-120-010124	BATTERY CLAMP BRACKET	1
25	3-155-010012	CABLE THROTTLE	1
26	3-155-010025	CHOKE CABLE	1
27	3-162-010001	FILLER BREATHER STRAINER ASSY	1
28	3-201-010002	CONDUIT PLASTIC FLEX 3/8	6'
29	3-220-010003	FLEXIBLE COUPLING 1-1/8 X 3/4	1
31	3-273-010006	ENGINE 20HP ONAN	1
33	3-482-010510	MOUNT WELDMNT HYD. POWER CENTER	1
34	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	122-0476	BASE ASSEMBLY OIL FILTER	1
36	3-786-010005	HYDRAULIC TANK FIFTH WHEEL	1
37	3-397-010237	HOSE ASSEMBLY 3/4 X 36	1
38	106281	HOSE ASSEMBLY 1/2 X 40	1
39	106280	HOSE ASSEMBLY 1/2 X 24	1
40	3-397-010261	HOSE ASSEMBLY 3/4 X 23	1
41	1-397-010341040	HOSE ASSEMBLY 1/2 SWIVEL 1/4	2
42	3-427-010003	KEY WOODRUFF 317/350	1
43	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
44	122-0691	ADAPTER ASSEMBLY—REMOTE FILTER	8
45	3-591-010005	PUMP HYDRAULIC GEAR	1
47	3-482-010360	MOUNT CHOKE CABLE WLDMT	1
48	3-765-010005	IGNITION SWITCH	1
49	3-783-010013P	TANK FUEL 3 GAL	1

HYDRAULIC ENGINE, FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
50	1-654-010049-07	SCREW HEX CAP 5/16-18 X 1-1/2 GR5	4
51	1-861-010032-09	WASHER FLAT 5/16	8
52	3/16X3/4CS SELF	SCREW HEX HEAD CAP SELF-DRILL 3/16 X 3/4	2
53	3/4NIPPLE	ALL THREAD NIPPLE	2
54	1-510-010001	NUT FLANGE LOCK 3/8-16	6
55	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
56	3/4ST ELL	ELBOW BLACK PIPE 90	2
57	2045-8-8S	INT. PIPE SWIVEL EXT. PIPE 1/2-14	1
58	1-861-010032-11	WASHER FLAT 3/8	14
60	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	5
61	3-272-010022	ELECTRICAL BUTT SPLICE 12-10 W/SEAL	1
62	514-9045-60	CABLE BATTERY KI (POS) AUX ENGINE	1
63	541-0203	EXHAUST ADAPTER KIT (NOT SHOWN)	1
64	541-0379	MUFFLER 20HP ONAN	1
65	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	122-0771	GASKET OIL FILTER ADAPTER	1
67	2047-8-8S	ADAPTER	1
68	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	7
71	3-276-010693	EXT EXHAUST 24HP SLOPE	1
75	110-4338	SQUARE KEY 1/4 X 2	1
82	508-0184	GROMMET - AIR SEAL	1
83	526-0065	WASHER	2
84	805-2	BUSHING STEP	8
86	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
87	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
88	S25F-6	COUPLER 3/4 FEMALE HALF (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
	105482	COUPLER, DUST CAP FEMALE	1
89	S21F-6	COUPLER 3/4 MALE HALF (BEFORE 7/98)	1
	105479	COUPLER, FLAT FACE MALE (AFTER 7/98)	1
	105481	COUPLER, DUST CAP MALE	1
92	3-557-0140380	SUPPORT PIN	4
93	1-557-010362-63	COTTER PIN 1/4 X 2	8
101	10030	SEAL BAR STOCK - NEOPRENE SPONGE	60"
102	1-822-010001	TRIM 3/8 X 18	1.5'
104	RRT308X.75	TUBE ROUND 1-3/8 X 3/4	1
105	3-182-010028	CLAMP MUFFLER	1

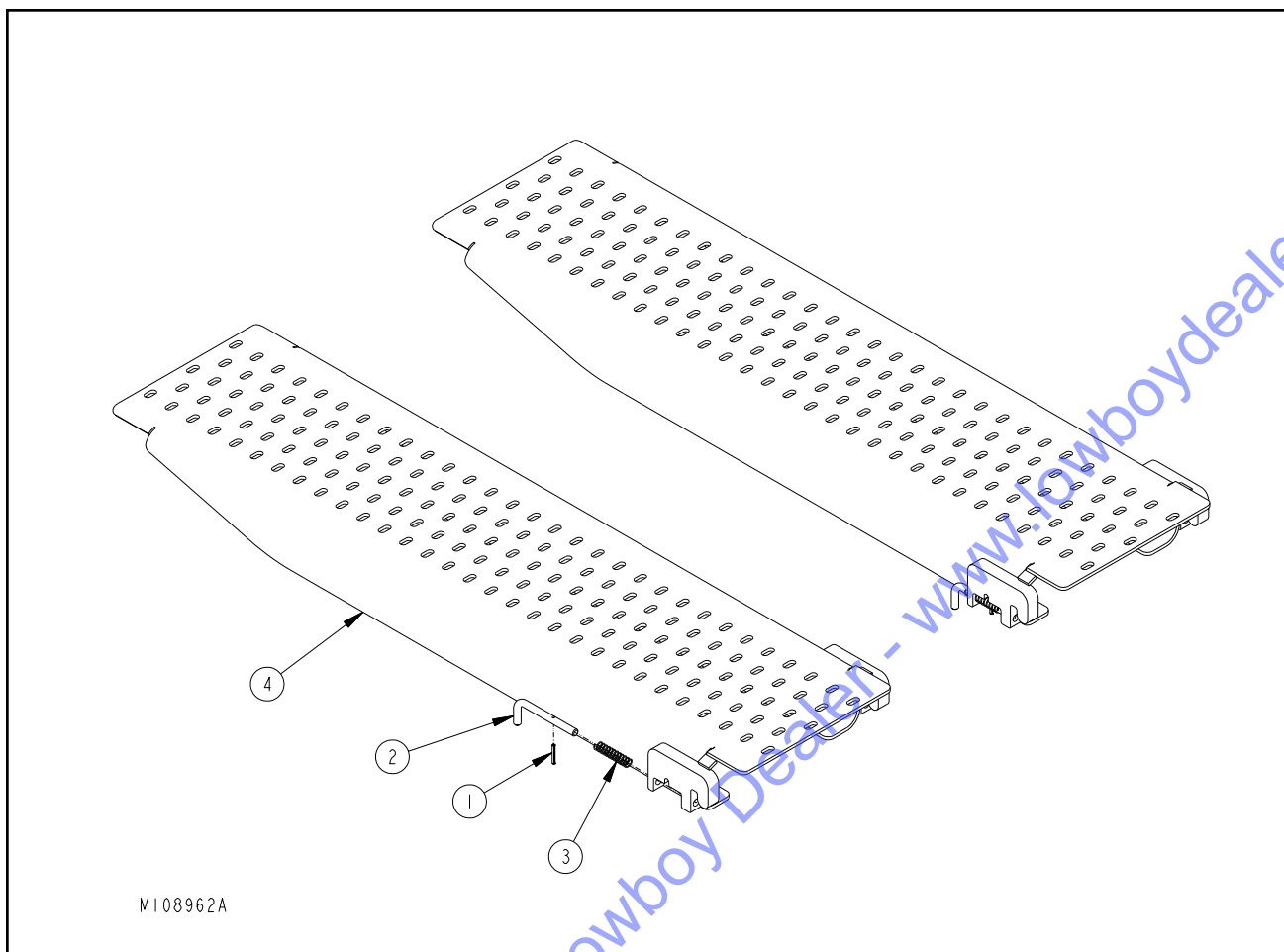


Figure 1-57 Portable Ramp Assembly (Optional)

PORTABLE RAMP ASSEMBLY (OPTIONAL)

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, FRONT REMOVABLE	2
	109173	RAMP WELDMENT, STEEL FRONT REMOVABLE	2

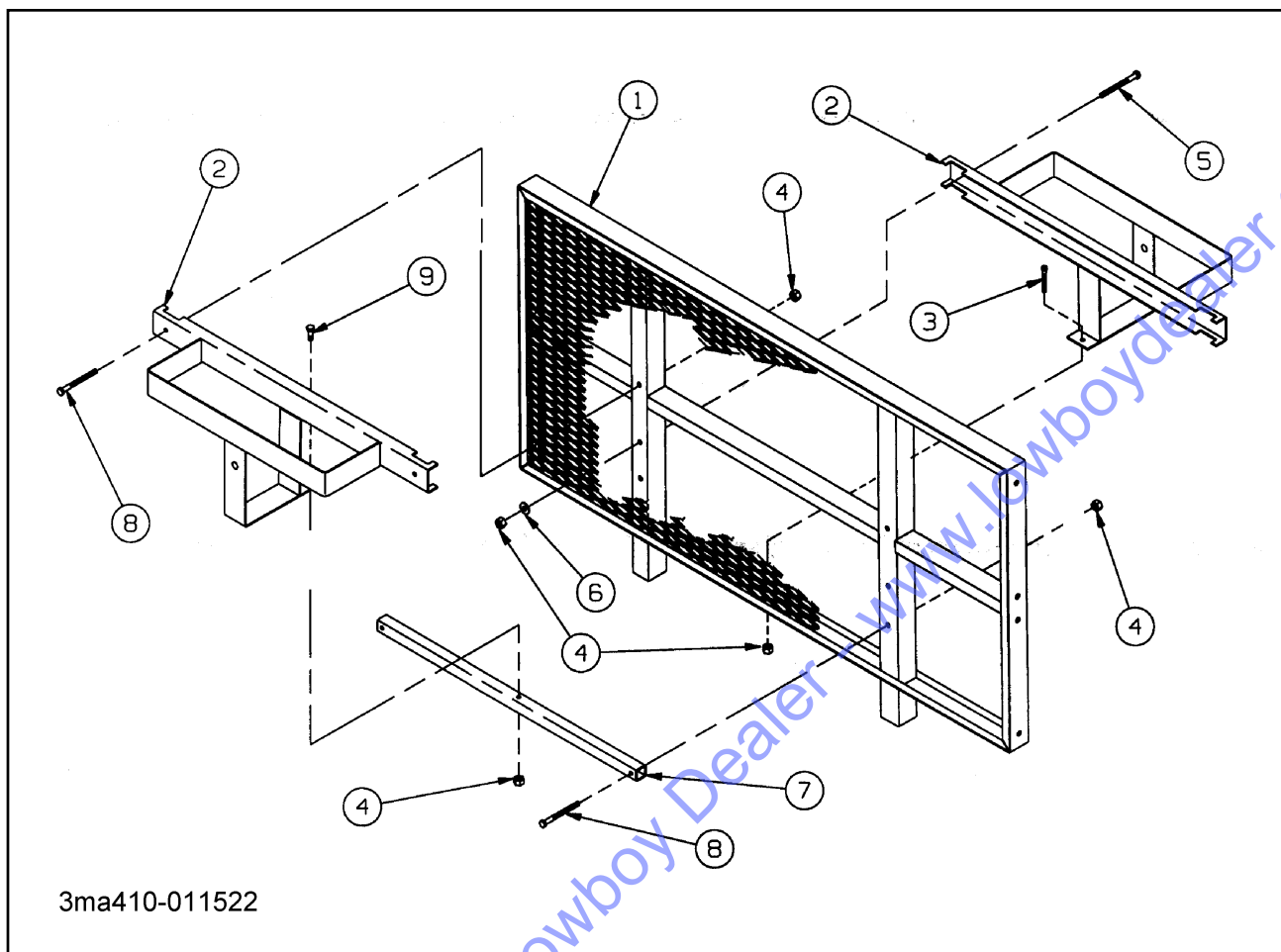


Figure 1-58 Spare Tire Carrier (Optional)

SPARE TIRE CARRIER (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	
	3-612-010015-1	RACK INSTALLATION BHD, FRONT MOUNT	
	3-612-010015-2	RACK INSTALLATION BHD, REAR MOUNT	
1	3-141-010120	BULKHEAD WELDMENT	REF
2	3-612-010016	RACK WELDMENT BULKHEAD MOUNT	1
3	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	1
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	3,5*
5	1-654-010055-15	SCREW, HEX HEAD CAP 1/2-13 X 5 GR5	2
6	1-861-010032-15	WASHER, FLAT 1/2W	2,0*
7	3-829-010337	TUBE W/ TAB	0,1*
8	1-654-010055-18	SCREW, HEX HEAD CAP 1/2-13 X 6-1/2 GR5	0,4*
9	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	0,1*

* FIRST QUANTITY IS FOR THE FRONT MOUNT, SECOND QUANTITY IS FOR THE REAR MOUNT.

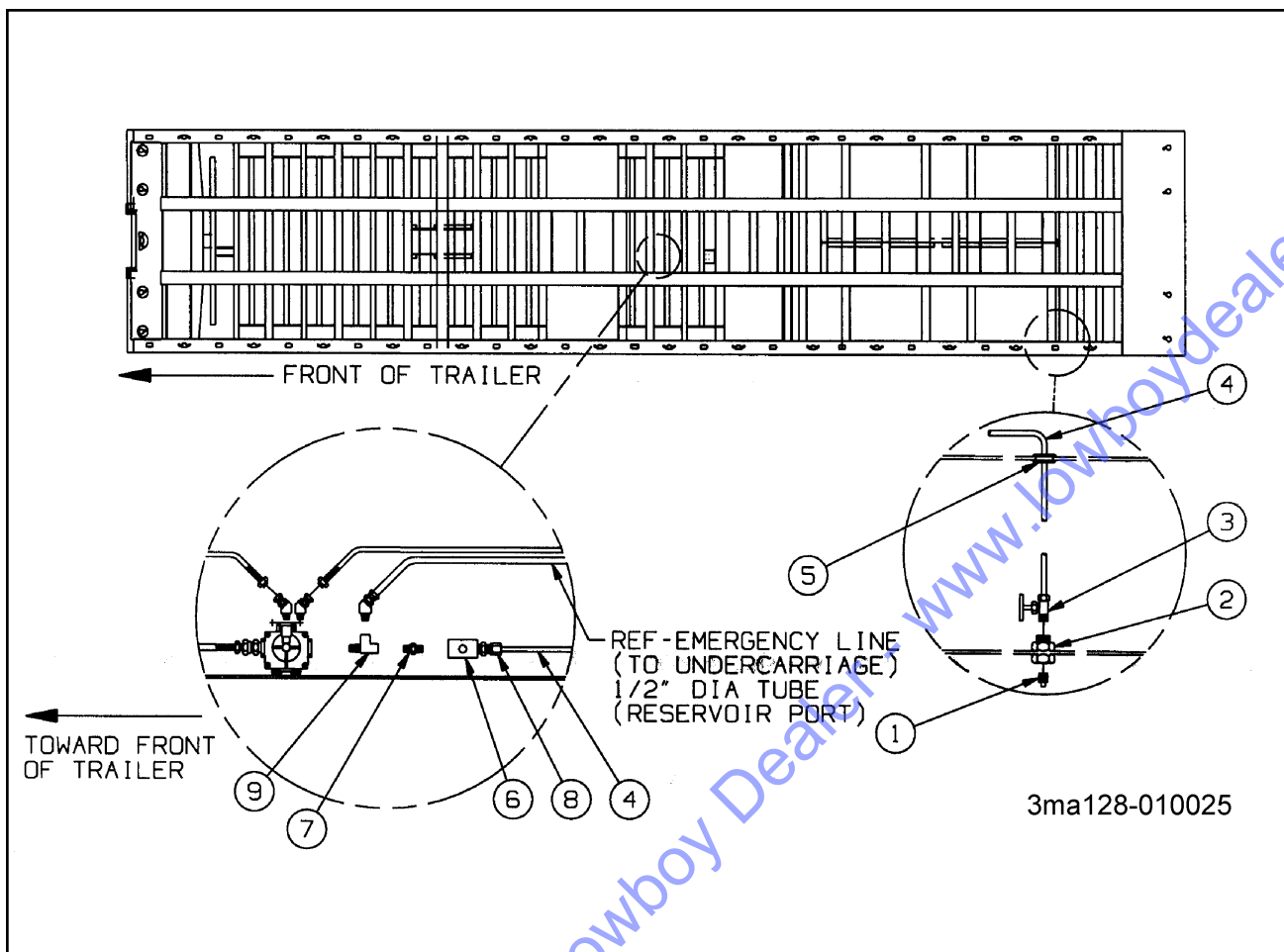


Figure 1-59 Air Outlet Assembly (Optional)

AIR OUTLET ASSEMBLY (OPTIONAL)

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
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	1

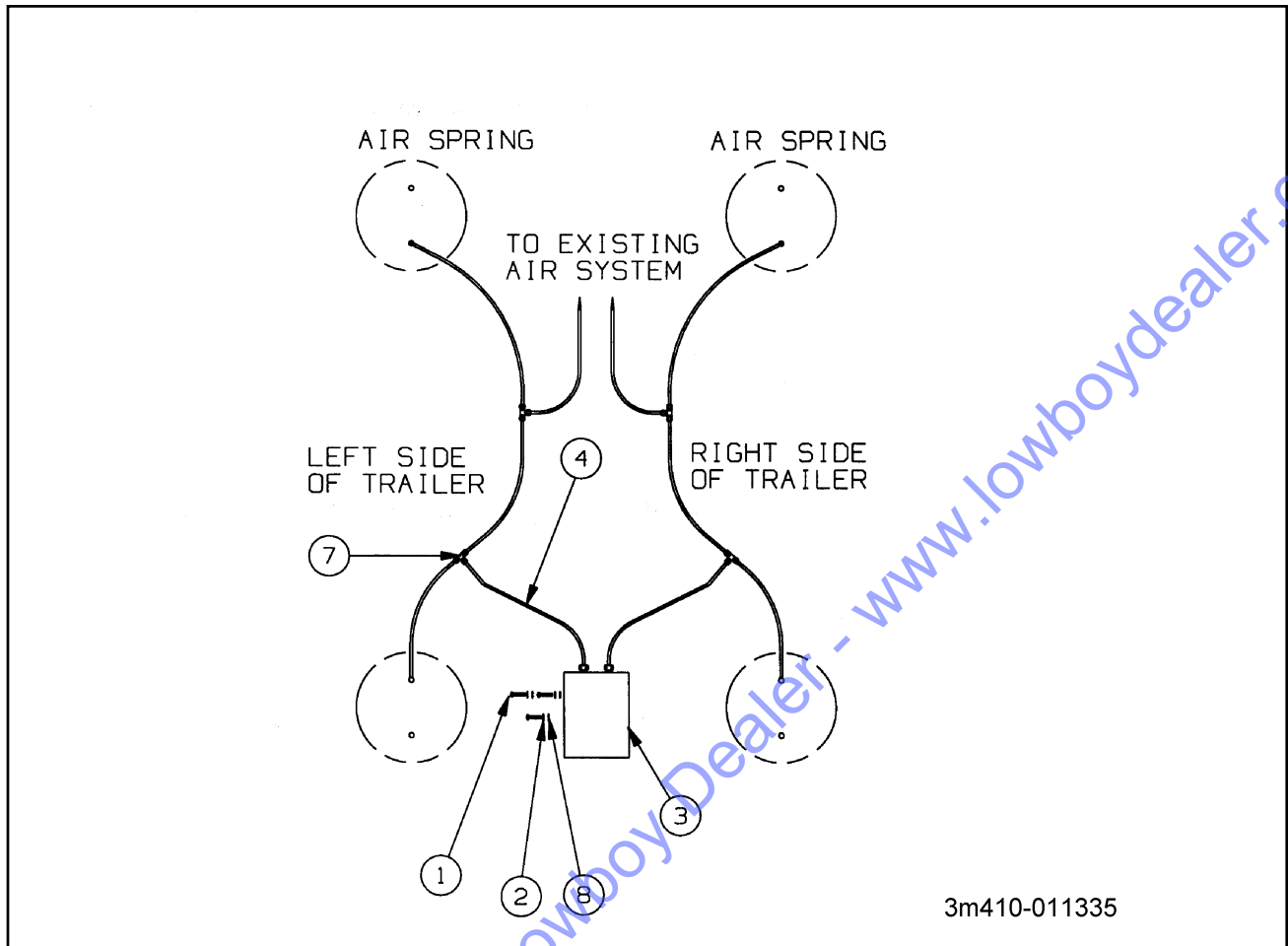


Figure 1-60 Scale-o-matic Installation (Optional)

SCALE-O-MATIC INSTALLATION (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-410-011335	SCALE-O-MATIC INSTALLATION	
1	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	4
3	3-762-010612	SCALE-O-MATIC 25000 LB CAP	1
4	1-833-010001	NYLON TUBING 1/4OD	10
5	3-146-010072	BUMPER (NOT SHOWN)	REF
6	3-120-010426	BRACKET, SCALE-O-MATIC MTG (NOT SHOWN)	1
7	1-297-010010-04	FITTING AIR UNION/TEE	2
8	1-861-010032-06	WASHER, FLAT 1/4N	4
9	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5(NOT SHOWN)	4
10	1-861-010032-09	WASHER, FLAT 5/16-18 X 1 GR5 (NOT SHOWN)	4
11	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB (NOT SHOWN)	4

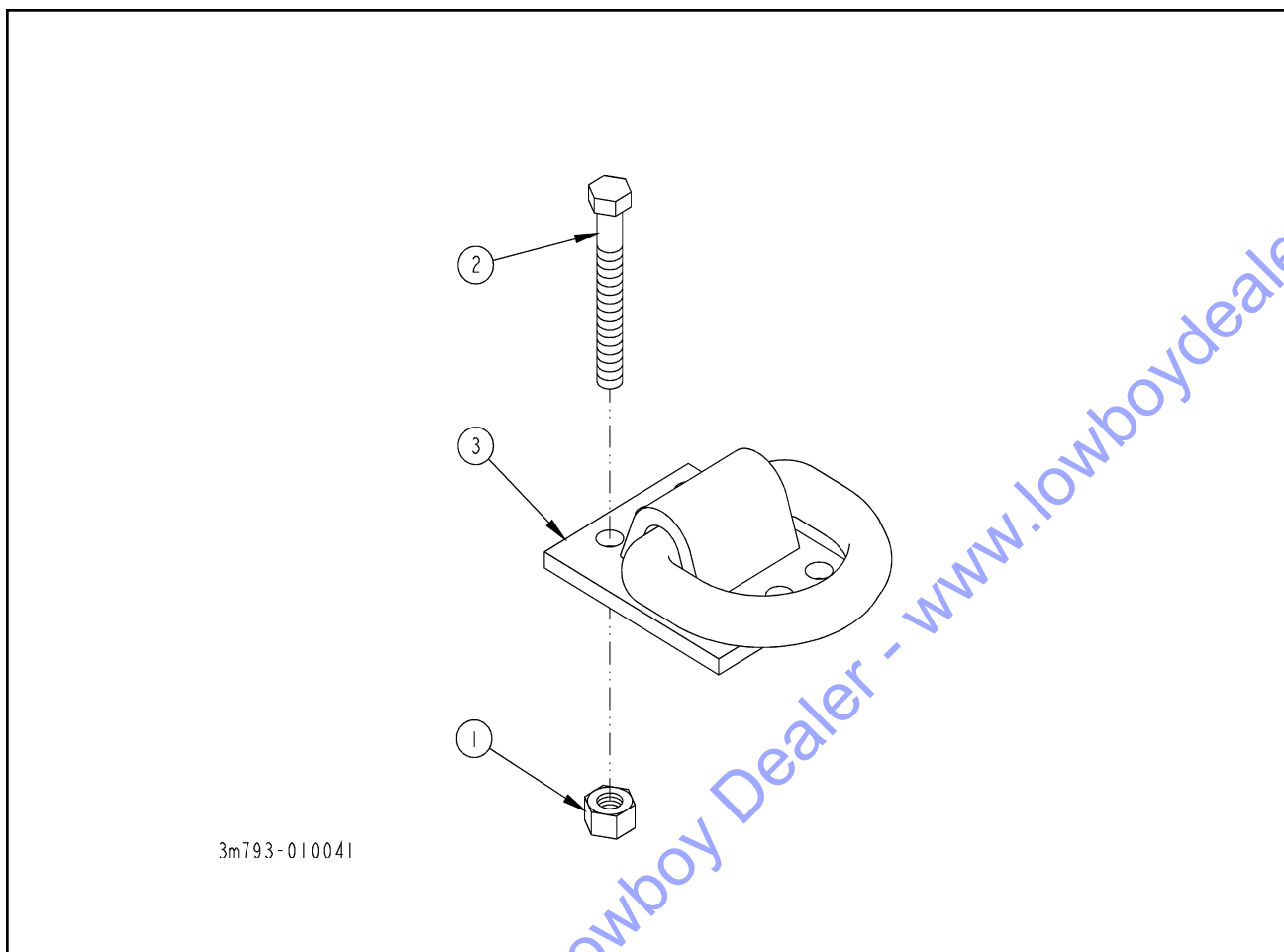


Figure 1-61 D-Ring Installations (Optional)

D-RING INSTALLATIONS (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-793-010041	TIE DOWN INST., WINCH D-RING (INCL ITEMS 3-5)	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	10
3	3-793-010040	TIE DOWN, WINCH	REF

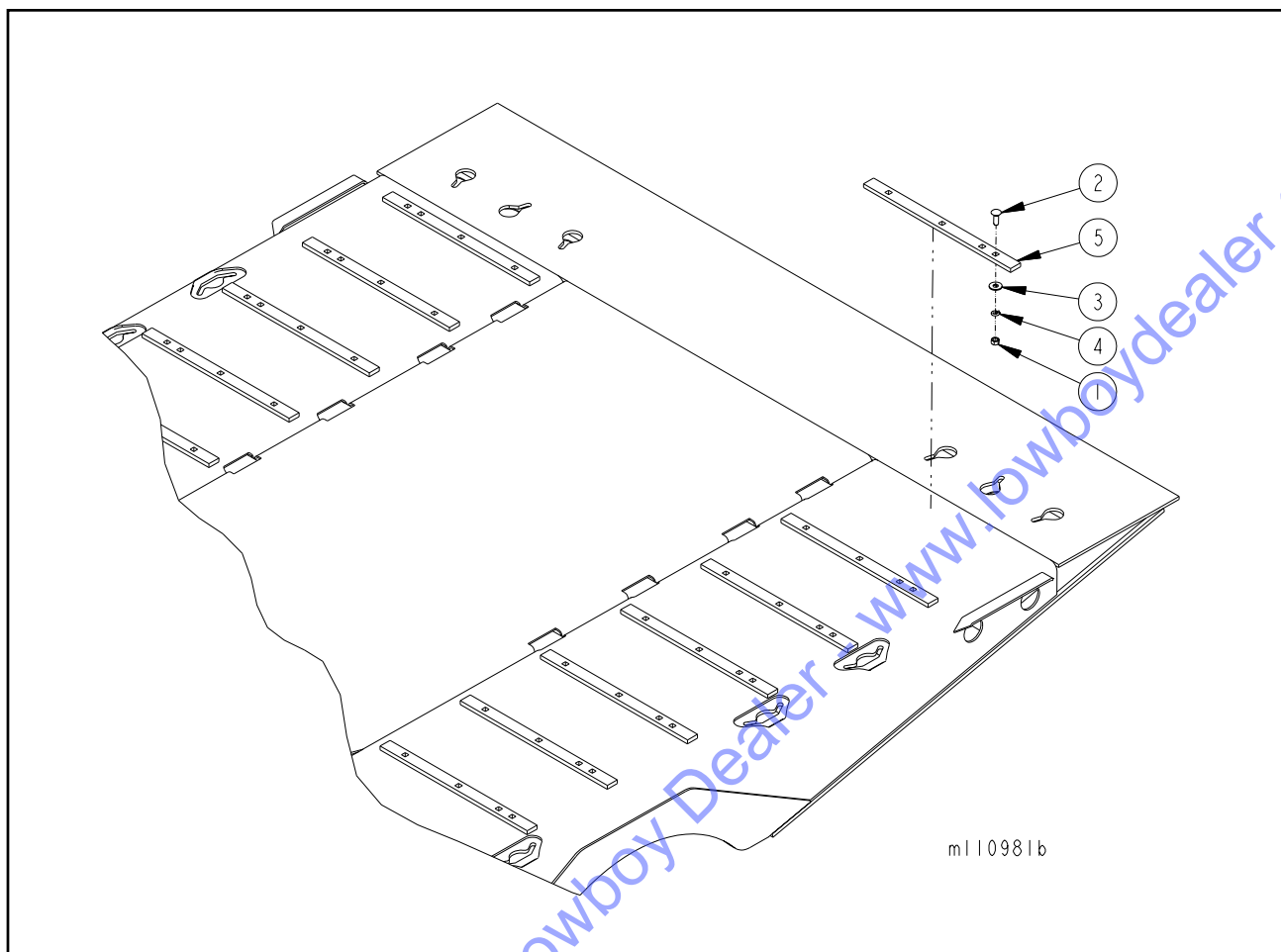


Figure 1-62 Traction Bar Assembly (Optional)

TRACTION BAR ASSEMBLY (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	109221	TRACTION BAR ASSEMBLY	
1	1-512-010007-09	NUT, HEX 1/2-13	3
2	1-654-010070-03	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/2	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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202702-12-12S	104	2263	61	239-9076-5	27
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203102-12-12S	11	22695	59	24 786 11	105
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2081-16-8S	110	2309	68	2-684-010001	27
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3/4ST ELL	111	3-150-010186	51	3-203-010001	19
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3004	79	3-153-010014	84	3-208-010053-03	82
3-007-010039	82	3-153-010016-XX	64	3-208-010053-04	82
3-007-010039	84	3-155-010012	101	3-209-010003	87
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3-136-010001-02	82	3-174-010059	64	3-272-010080	87
3-136-010001-02	84	3-174-010060036	64	3-272-010095	87
3-141-010008	09	3177	67	3-272-010109	74
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3-141-010121-2	09	3-181-010038	105	3-272-010121	87
3-141-010149	09	3-182-010028	111	3-272-010125	19
3-141-010150-1	09	3-201-010001036	74	3-272-010125	82
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3-273-010028-02	105	3-368-010252	18	3-482-010360	110
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3-273-010030	104	3-368-010254	101	3-482-010420	104
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