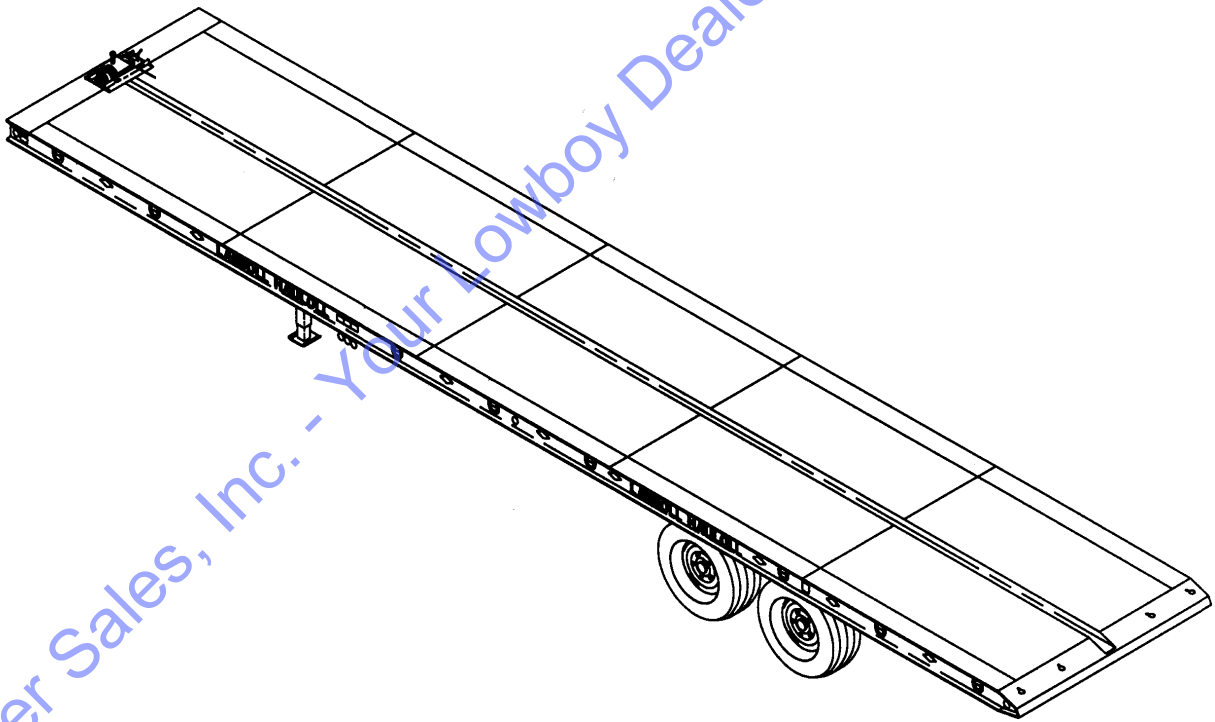




**MODEL 330A
SEMITRAILER
PARTS LIST MANUAL**



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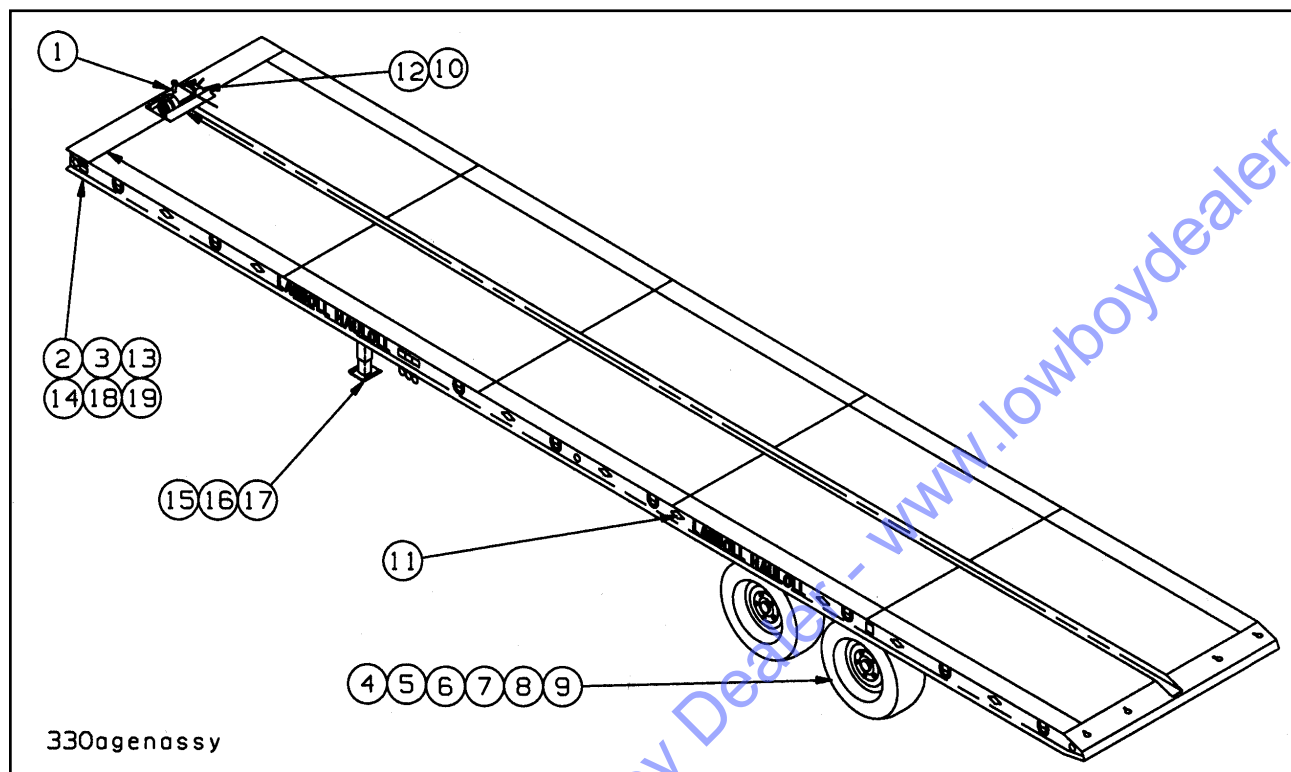


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
1	1-2	FIFTH WHEEL ASSEMBLY	1
2	1-3-1-14; 1-16-1-17	HYDRAULIC ASSEMBLIES	1
3	1-18 - 1-21	ELECTRICAL ASSEMBLIES	1
4	1-22 - 1-25	UNDERCARRIAGE & SUSPENSION - SPRING RIDE	1
5	1-26 - 1-33	UNDERCARRIAGE & SUSPENSION - AIR RIDE	1
6	1-34 - 1-35	AXLE AND BRAKE ASSEMBLY	1
7	1-36 - 1-43	AIR BRAKE SYSTEM	1
8	1-44 - 1-47	HUB AND DRUM ASSEMBLY	2
9	1-48 - 1-49	AIR SYSTEM	1
10	1-50 - 1-60	WINCH ASSEMBLIES	1
11	1-61 - 1-63	DECAL INSTALLATION	1
12	1-64 - 1-66	HYDRAULIC WET KIT ASSEMBLY (OPTIONAL)	1
13	1-67 - 1-81	AUXILIARY ENGINE ASSEMBLIES (OPTIONAL)	1
14	1-15;1-82;1-85;1-88	MISCELLANEOUS OPTIONS	1
15	1-86 - 1-87	LANDING GEAR, CRANK ASSEMBLY	1
16	3-725-010145	LANDING GEAR, PIN DROP	2
17	346SL	LOCK HITCH PIN	2
18	1-116-010019	BOX MANUAL STORAGE	1
19	105-0093	HOSE CLAMP 4-1/2	1

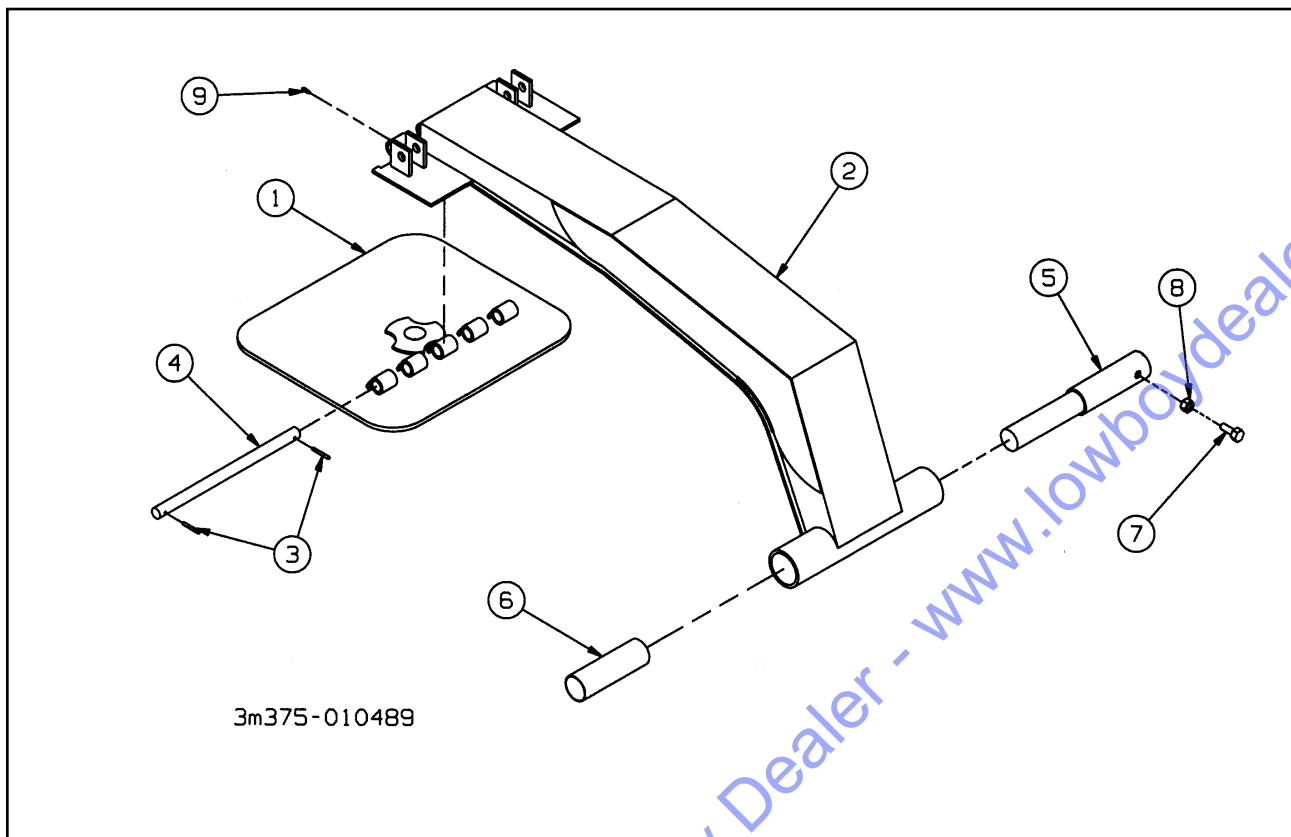
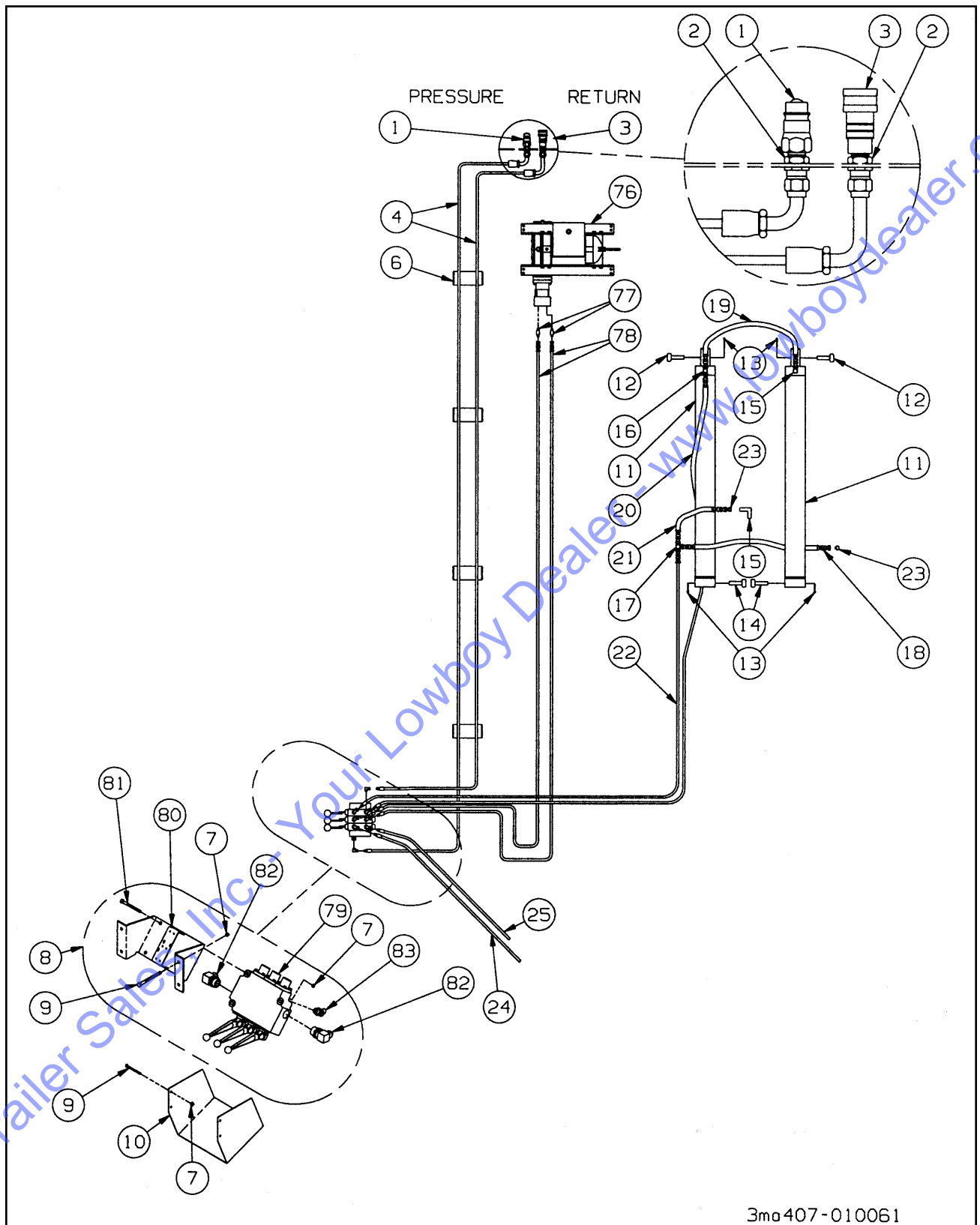


Figure 1-2 Fifth Wheel Assembly

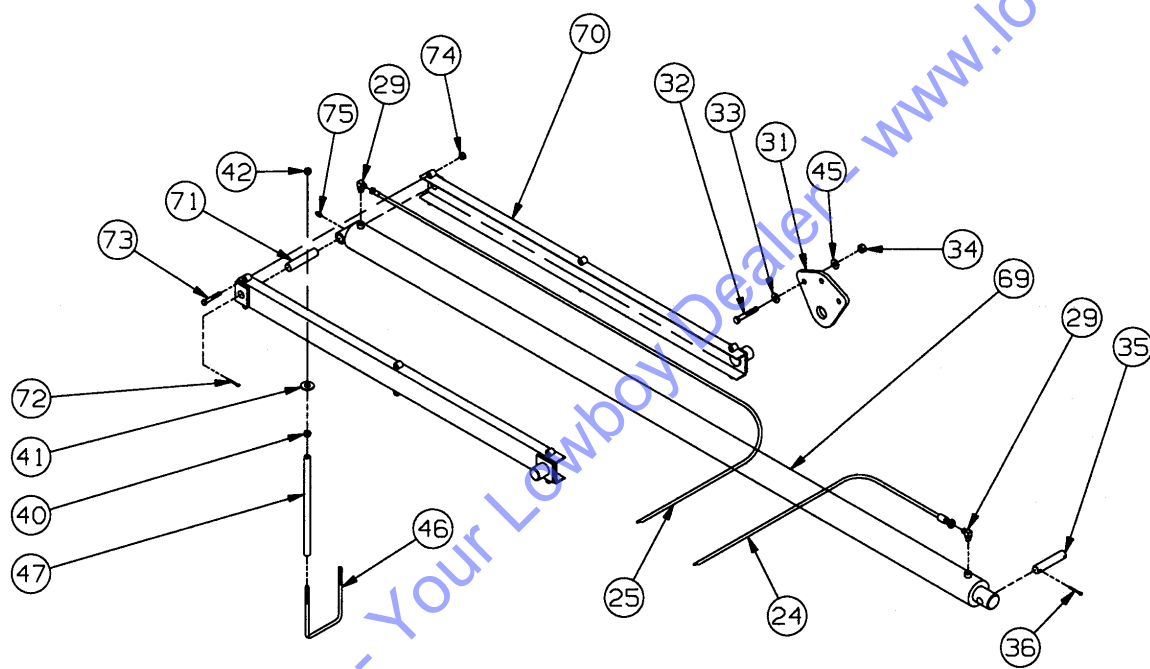
FIFTH WHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-375-010489-3	HITCH INST. 30 PIN 330-42 TRL	
	3-375-010489-4	HITCH INST. 30 PIN 330-48 TRL	
1	3-375-010250	HITCH PLATE KING PIN	1
2	3-375-010292	HITCH ASSY CONTAINER HAULER	1
3	1-647-010004255	SPRING PIN SLOTTED 3/8 X2	2
4	3-557-010030	HINGE PIN FIFTH WHEEL	1
5	3-826-010015	TUBE WLDMT INNER FIFTH WHEEL	1
6	3-826-010014	TUBE INNER HINGE FIFTH WHEEL	1
7	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5	2
8	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
9	1-298-010001-1	FITTING GRS STR SHORT 1/4-28	6



3ma407-010061

Figure 1-3 Hydraulic System



STANDARD LOAD OPTION---(26)

3mb407-010061

Figure 1-4 Hydraulic System - Std. Load Angle Option

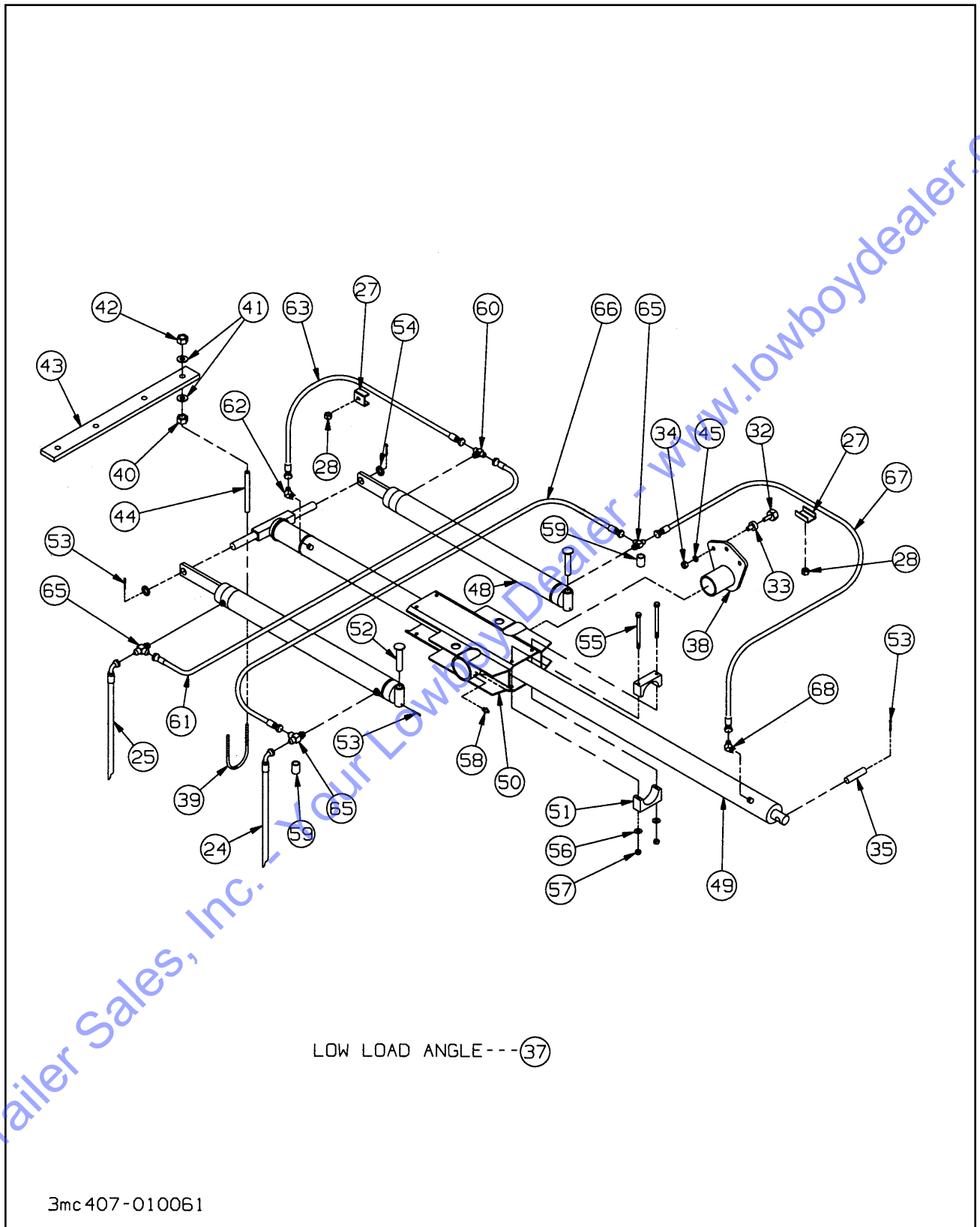


Figure 1-5 Hydraulic System - Low Load Angle Option

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010061	HYDRAULIC INSTALLATION CONTROLS (ITEMS 1-10)	
	3-375-010489-3	HITCH INSTALLATION - 42' TRAILER (ITEMS 11-23)	
	3-375-010489-4	HITCH INSTALLATION - 48' TRAILER (ITEMS 11-23)	
	3-407-010038-09	HYDR. INST. U/C 330 SLA (ITEMS 24-47)	
	3-407-010038-10	HYDR. INST. U/C 330 LLA (ITEMS 24-47)	
	3-873-010166	WINCH INSTALLATION 12K/20K (ITEMS 76-78)	
1	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
2	2240-12-12S	ADAPTER BULKHEAD 3/4 NPT (BEFORE 7/98)	2
	105483	ADAPTER BULKHEAD 12JIC-12ORING (AFTER 7/98)	2
3	S25F-6	COUPLER 3/4 PRESSURE FRONT (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
	105482	COUPLER, DUST CAP FEMALE	1
4	1-397-010305254	HOSE ASSEMBLY	2
	100064	HOSE ASSEMBLY	2
6	3-181-010006	HOSE CLAMP	REF
7	1-510-010001	NUT FLANGE LOCK 3/8-16	8
8	3-846-010152-01	VALVE ASSY 3 SPOOL (STD ASSEMBLY) (SEE PAGE 1-11)	1
	3-846-010152-05	VALVE ASSY 3 SPOOL (SGL REMOTE) (SEE PAGE 1-11)	1
	3-846-010152-08	VALVE ASSY 3 SPOOL (DUAL REMOTE)(SEE PAGE 1-11)	1
	3-846-010152-10	VALVE ASSY 3 SPOOL (TRPL REMOTE) SEE PAGE 1-11)	1
9	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 GR5	8
10	3-681-010122	SHIELD, CONTROL VALVE	1
11	3-242-010099	CYLINDER HYDR 4X42 (SEE PAGE 1-8)	2
12	3-557-010059	PIN CYL ROD END	2
13	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	4
14	3-557-010033	PIN CYLINDER BUTT END	2
15	2062-8-8S	ADAPTER 90	3
16	203003-8-8S	ADAPTER TEE	1
17	2033-8-8S	ADAPTER TEE	1
18	1-397-010301042	HOSE ASSEMBLY	1
19	107756	HOSE ASSEMBLY 24 STR-90	1
20	1-397-010301194	HOSE ASSEMBLY (42')	1
	1-397-010301268	HOSE ASSEMBLY (48')	1
21	1-397-010301040	HOSE ASSEMBLY	1
22	1-397-010301164	HOSE ASSEMBLY (42')	1
	1-397-010301238	HOSE ASSEMBLY (48')	1
23	3-846-010156	VALVE RESTRICTOR 3/64-ONE WAY (DIRECT REPLACEMENT)	2
24	100063	HOSE ASSEMBLY (STD LOAD ANGLE)	1
	1-397-010302084	HOSE ASSEMBLY (LOW LOAD ANGLE)	1
25	1-397-010301130	HOSE ASSEMBLY (STD LOAD ANGLE)	1
	1-397-010302042	HOSE ASSEMBLY (LOW LOAD ANGLE)	1
26	3-242-010153	CYLINDER ASSY (STD LOAD ANGLE)(ITEMS 69-75)	1
27	2-181-010001	HOSE CLAMP (LOW LOAD ANGLE)	2
28	1-510-010001	NUT FLANGE LOCK 3/8-16 (LOW LOAD ANGLE)	2
29	2062-8-8S	ADAPTER 90 (STD LOAD ANGLE)	2
30	TY244MX	TY-WRAP (STD LOAD ANGLE) (NOT SHOWN)	12
31	3-125-010241	BRACKET CYL MOUNT (STD LOAD ANGLE)	2
32	1-654-010061-06	SCREW HEX HEAD CAP 3/4-10 GR5	6
33	3-861-010038	WASHER STEP	6
34	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	6
35	3-557-010120	PIN UNDERCARRIAGE CYLINDER	1
36	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	2
37	3-242-010152-02	CYLINDER ASSY (LOW LOAD ANGLE)(ITEMS 48-68)	1

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
38	3-125-010244	BRACKET WLDMT CYL TRUN (LOW LOAD ANGLE)	2
39	3-102-010022	U BOLT CYL SUPPORT (LOW LOAD ANGLE)	2
40	1/2-13 HFN	NUT 1/2-13 GR2	2,4*
41	1-861-010032-15	WASHER FLAT 1/2 W	4,8*
42	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	2,4*
43	3-146-010001	RUBBER BUMPER CYLINDER (LOW LOAD ANGLE)	1
44	1-397-010010016	HOSE HYDRAULIC 1/2 X16 (LOW LOAD ANGLE)	2
45	1-861-010032-21	WASHER FLAT 3/4W	6
46	3-102-010048	U-BOLT 7-5/8 X 10 (STD LOAD ANGLE)	1
47	2750-8	HOSE 1/2 AIR BRAKE X 20 (STD LOAD ANGLE)	1.666
48	3-242-010099	HYDRAULIC CYLINDER WELDMENT	2
49	3-242-010103	CYLINDER HYD 4 X 126 (SEE PAGE 1-9)	1
50	3-120-010125	CYLINDER TRUNNION ASSEMBLY	1
51	3-120-010117	NYLATRON BEARING	4
52	3-557-010031	PIN CYLINDER BUTT END	2
53	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	4
54	3-150-010223	BUSHING	2
55	1-654-010059-21	SCREW HEX HEAD CAP 5/8-11 X 8 GR5	4
56	1-861-010032-19	WASHER FLAT 5/8W	4
57	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
58	1-298-010001-1	FITTING	4
59	1-161-010033-04	CAP PLASTIC TAPERED 1/2	2
60	203003-8-8S	ADAPTER TEE	1
61	1-397-010301039	HOSE ASSEMBLY	1
62	2061-8-8S	ADAPTER 45	1
63	1-397-010302070	HOSE ASSEMBLY	1
64	1-796-00003-02	TIE STRAP PLASTIC (NOT SHOWN)	4
65	203005-8-8S	ADAPTER TEE	3
66	1-397-010301042	HOSE ASSEMBLY	1
67	107486	HOSE ASSEMBLY	1
68	2062-8-8S	ADAPTER 90	1
69	3-242-010102	CYL HYD 4X126 O-RING (SEE PAGE 1-9)	1
70	3-120-010073	BRKT ASSY CYLINDER TRUNNION	2
71	3-557-010033	PIN CYLINDER BUTT END	1
72	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	1
73	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5	6
74	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
75	1-298-010001-1	FITTING GREASE 1/4-28	1
76	3-873-010126-2	WINCH ASSEMBLY 12,000 LB (SEE PAGE 1-51)	1
	3-873-010129-2	WINCH ASSEMBLY 20,000 LB (SEE PAGE 1-51)	1
77	202702-10-8S	ADAPTER	2
78	1-397-010302240	HOSE ASSEMBLY	2
	100062	HOSE ASSEMBLY	2
	1-397-010302172	HOSE ASSEMBLY	2
79	3-846-010008	VALVE 3-SPOOL (SEE PAGE 1-17)	REF
80	3-482-010575	MOUNT WELDMENT, VALVE	REF
81	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	REF
82	2062-12-12S	ADAPTER 90	REF
83	2061-8-8S	ADAPTER 45	REF

* THE FIRST QUANTITY LISTED IS FOR THE STANDARD LOAD ANGLE, THE SECOND QUANTITY IS FOR THE LOW LOAD ANGLE.

NOTE: IF ONLY ONE QUANTITY IS LISTED, QUANTITY APPLIES TO BOTH STD AND LOW LOAD ANGLE UNLESS OTHERWISE DESIGNATED IN THE DESCRIPTION.

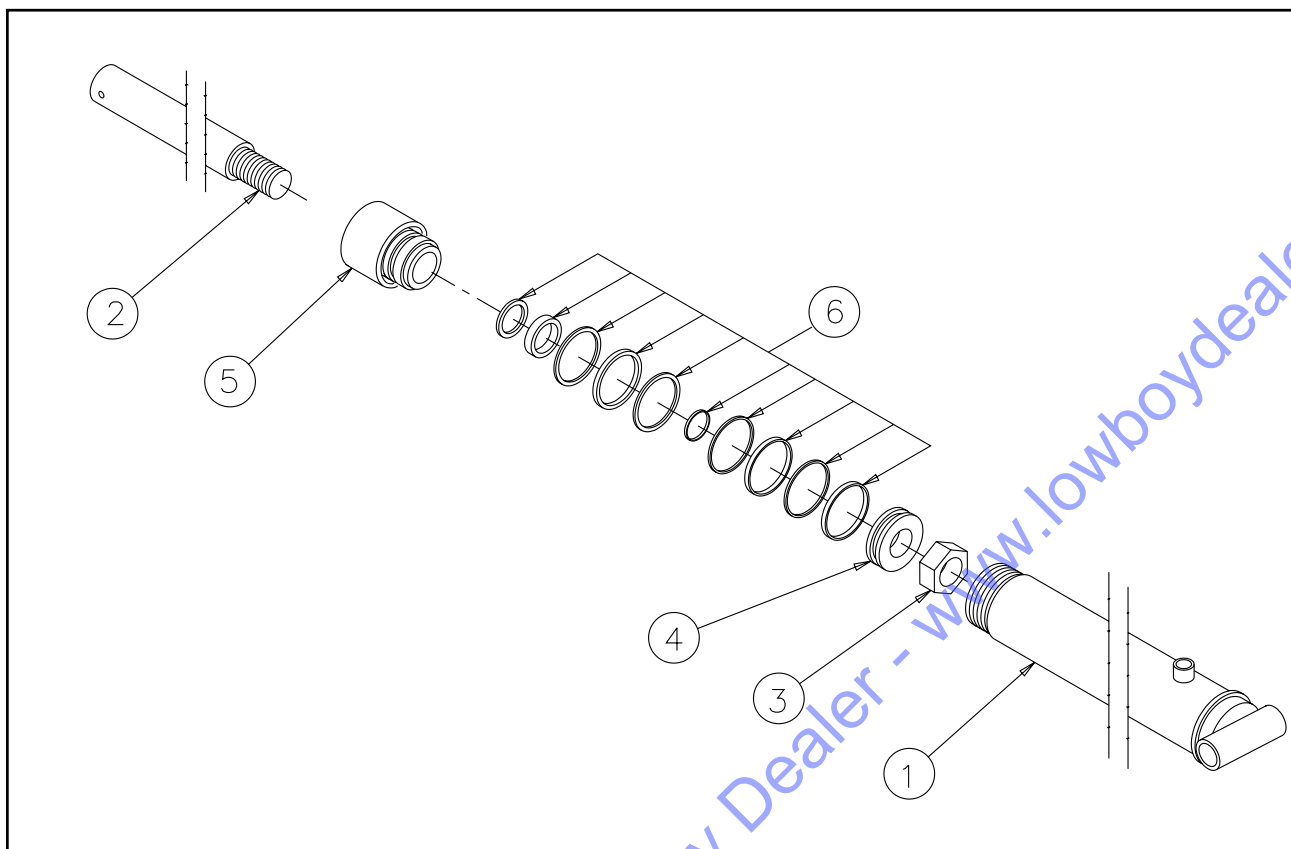


Figure 1-6 Trailer Tilt Cylinder Assembly

TRAILER TILT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010099	CYL. HYDR 4"X42" (TILT CYLINDER)	1
	3-242-010118	CYL. HYDR 4"X42"(LOW LOAD CYL FOR UNDERCARRIAGE)	1
1	*	BUTT AND TUBE ASSEMBLY	1
1A	*	BUTT AND TUBE ASSEMBLY (ALTERED PER 3-242-010099)	1
2	011100550	PISTON ROD	1
3	220000212	LOCKNUT (1-1/4 - 12)	1
4	071900048	PISTON	1
5	081900295	GLAND	1
	230007400	RETAINER SQUARE WIRE	1
6	PMCK-AD-460	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	AIR

* PART NOT SOLD SEPARATELY. REQUIRES PURCHASE OF ENTIRE ASSEMBLY.

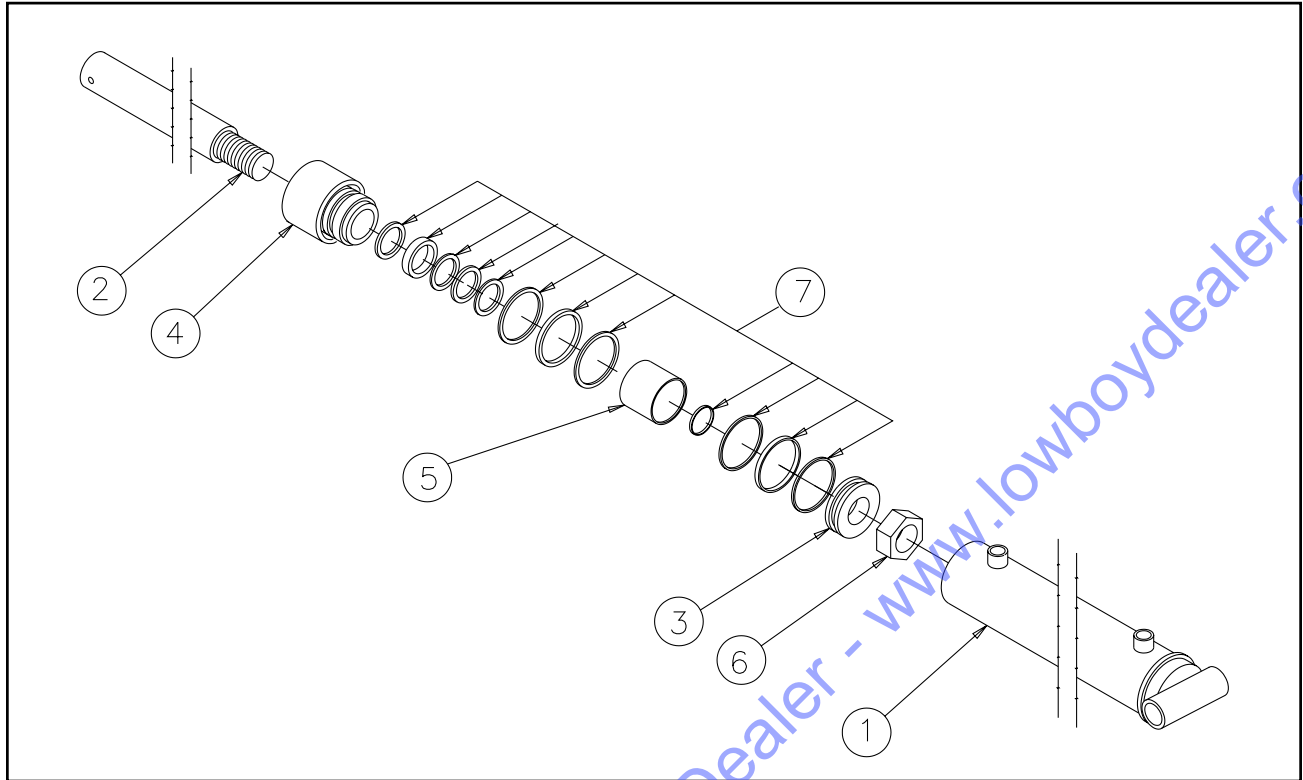


Figure 1-7 Undercarriage Slide Cylinder Assembly

UNDERCARRIAGE SLIDE CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010102	CYL. HYDR. 4"X126" (STANDARD LOAD ANGLE)	1
	3-242-010103	CYL. HYDR. 4"X126" (LOW LOAD ANGLE)	1
1A	*	BUTT AND TUBE ASSEMBLY	1
1B	*	BUTT AND TUBE ASSEMBLY (ALTERED PER 3-242-010102)	1
2	011300179	PISTON ROD	1
3	071900195	PISTON	1
4	081900277	GLAND	1
	230007400	RING SQUARE RETAINING	1
5	211300024	SPACER	1
6	220000212	LOCKNUT PISTON RING	1
7	PMCK-AD-461	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

* PART NOT SOLD SEPARATELY, REQUIRES PURCHASE OF ENTIRE ASSEMBLY.

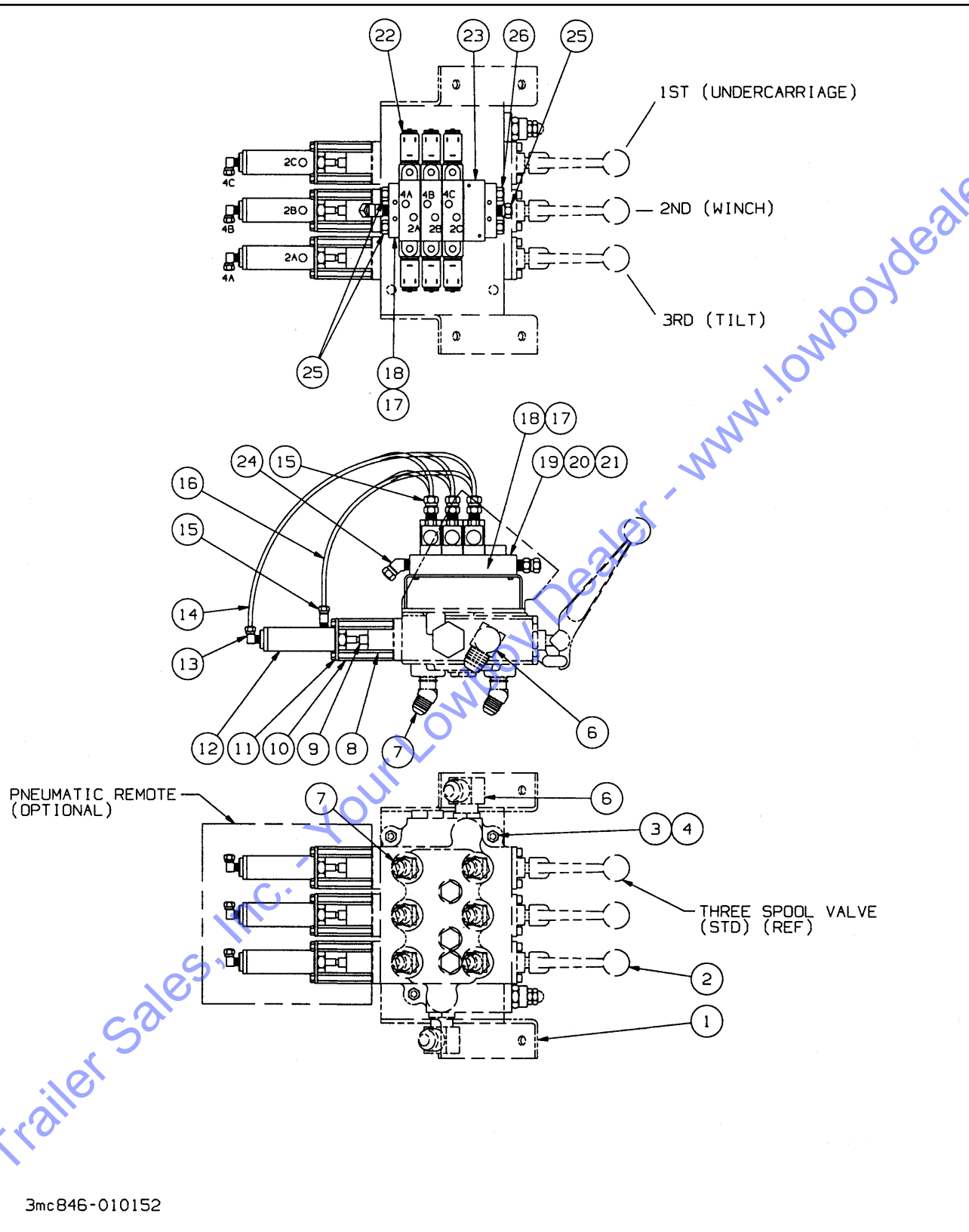
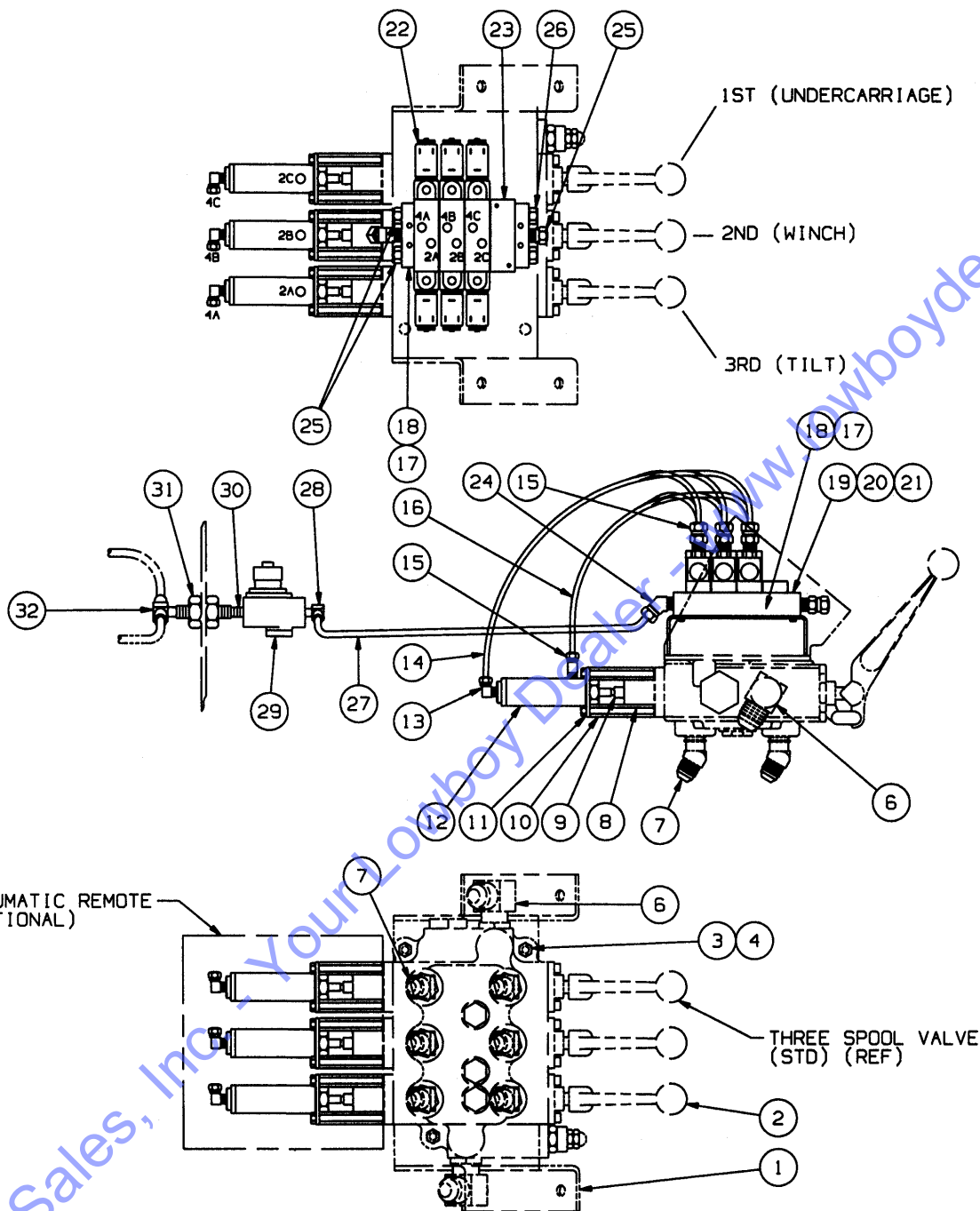


Figure 1-8 Valve Assembly, Three Spool

VALVE ASSEMBLY THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY			
			-01	-05	-08	-10
	3-846-010152-01	VALVE ASSEMBLY 3-SPOOL STANDARD	*			
	3-846-010152-05	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND SPOOL		*		
	3-846-010152-08	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND/3RD SPOOL			*	
	3-846-010152-10	VALVE ASSEMBLY 3-SPOOL REMOTE 3 SPOOLS				*
1	3-482-010575	MOUNT WELDMENT VALVE	1	1	1	1
2	3-846-010008	VALVE 3-SPL 2500 PSI (SEE PAGE 1-17)	1	1	1	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 GR5	3	3	3	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	3	3
6	2062-12-12S	ADAPTER 90	2	2	2	2
7	2061-8-8S	ADAPTER 45	6	6	6	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	-	1	2	3
9	3-007-010039	ADAPTER AIR CYLINDER	-	1	2	3
10	3-711-010055	SPACER MALE-FEMALE	-	4	8	12
11	3-482-010288	MOUNT AIR CYLINDER VALVE	-	1	2	3
12	3-238-010001	CYLINDER AIR	-	1	2	3
13	1-297-010008-01	FITTING AIR 90	-	1	2	3
14	NB-2-016	TUBING NYLON FLEX 18	-	1	2	3
15	68CA-2-2	CONNECTOR	-	3	6	9
16	NB-2-016	TUBING NYLON FLEX	-	1	2	3
17	3-843-010023	VALVE PNEU MANF- 2 STATION (NO PARTS BREAKDOWN)	-	-	-	1
18	3-843-010025	VALVE PNEU MANF- 4 STATION (NO PARTS BREAKDOWN)	-	1	1	-
19	1-654-010024014	SCREW MACH FLSTR 6-32X1-1/2	-	4	4	4
20	1-861-010032-01	WASHER FLAT #6	-	4	4	4
21	1-512-010003-02	NUT HEX LOCK W/NYLON #6-32	-	4	4	4
22	3-843-010015	VALVE PNEU 4-WAY, 3-POS (SEE PAGE 1-14)	-	1	2	3
23	3-843-010024	VALVE BLANK STATION COVER	-	1	-	1
24	1-297-010013-05	FITTING AIR	-	1	1	1
25	1-297-010033-02	FITTING BRASS PLUG HEX	-	3	3	3
26	3-136-010001-02	BREATHER PNEUMATIC EXHAUST	-	2	2	2



3mf846-010152

Figure 1-9 Pneumatic Remote

PNEUMATIC REMOTE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY		
			SINGLE	DUAL	TRIPLE
	100291	CONTROL, REMOTE WINCH	*		
	100292	CONTROL, REMOTE WINCH/TILT		*	
	100294	CONTROL, REMOTE WINCH/TILT, U/C			*
1	3-482-010563	MOUNT WLDMT VALVE HYD PNEUM	1	1	1
2	3-846-010008	VALVE 3-SPOOL 2500 PSI (SEE PAGE 1-17)	1	1	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 GR5	3	3	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	3
6	2062-12-12S	ADAPTER 90	2	2	2
7	2061-8-8S	ADAPTER 45	6	6	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	1	2	3
9	3-007-010039	ADAPTER AIR CYLINDER	1	2	3
10	3-711-010055	SPACER MALE-FEMALE	4	8	12
11	3-482-010288	MOUNT AIR CYLINDER VALVE	1	2	3
12	3-238-010001	CYLINDER AIR 1-1/16 BORE X 1 STR (NO PARTS BREAKDOWN)	1	2	3
13	1-297-010008-01	FITTING AIR 90 1/8TB X 1/8NPT	1	2	3
14	NB-2-016	TUBING NYLON FLEX 1/8 OD X 18"	1	2	3
15	68CA-2-2	CONNECTOR	3	6	9
16	NB-2-016	TUBING NYLON FLEX 1/8 OD X 12"	1	2	3
17	3-843-010025	VALVE PNEU. MANF - 2 STATION (NO PARTS BREAKDOWN)	1	1	0
18	3-843-010023	VALVE PNEU. MANF - 4 STATION (NO PARTS BREAKDOWN)	0	0	1
19	1-654-010024014	SCREW MACH FLSTR 6-32 X 1-1/2	4	4	4
20	1-861-010032-01	WASHER FLAT #6	4	4	4
21	1-512-010003-02	NUT HEX LOCK #6-32	4	4	4
22	3-843-010015	VALVE PNEUMATIC 4-WAY 3-POS. (SEE PAGE 1-14)	1	2	3
23	3-843-010024	VALVE BLANK STATION COVER (NO PARTS BREAKDOWN)	1	0	1
24	1-297-010013-05	FITTING AIR 1/4X1/4 45 M/ELB	1	1	1
25	1-297-010033-02	FITTING BRASS PLUG HEX 1/4NPT	3	3	3
26	3-136-010001-02	BREATHER PNEUMATIC EXH 1/4NPT	2	2	2
27	1-833-010001	NYLON TUBING 1/4 OD	3'	3'	3'
28	1-297-010008-07	FITTING AIR 90 1/4 TUBE X 1/4 NPT	1	1	1
29	905-54-107	VALVE AND FILTER PRESSURE	1	1	1
30	1-297-010020-02	FITTING BRS PIPE CL NIP 1/4	1	1	1
31	1-297-010022-02	FITTING AIR ANCHOR CPLG 1/4 NPT	1	1	1
32	1-297-010015-09	FITTING AIR BR TEE 1/2T X 1/4P	1	1	1

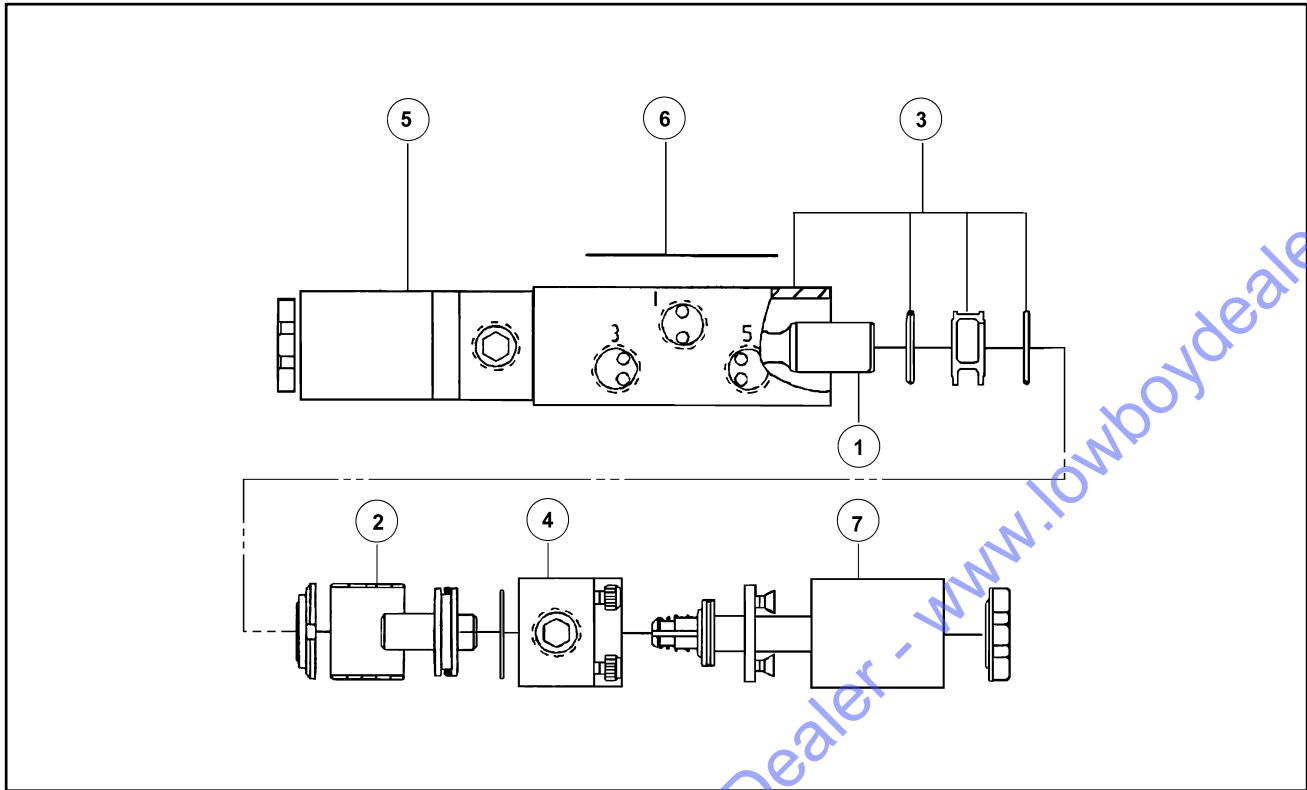


Figure 1-10 Pneumatic Valve

PNEUMATIC VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-843-010015	VALVE PNEUMATIC 4-WAY 3-POS.	3
1	6964-312	SPOOL	1
2	A7106-430	OPERATOR	1
3	A7106-350	BODY	1
4	AB022-567	CAP	2
5	7019-9XX	COIL	2
6	6582	LABEL MODEL NUMBER	2
7	A7106-392	SERVICE KIT (Contains all necessary tee seals, o-rings, spring and plunger, and gasket)	

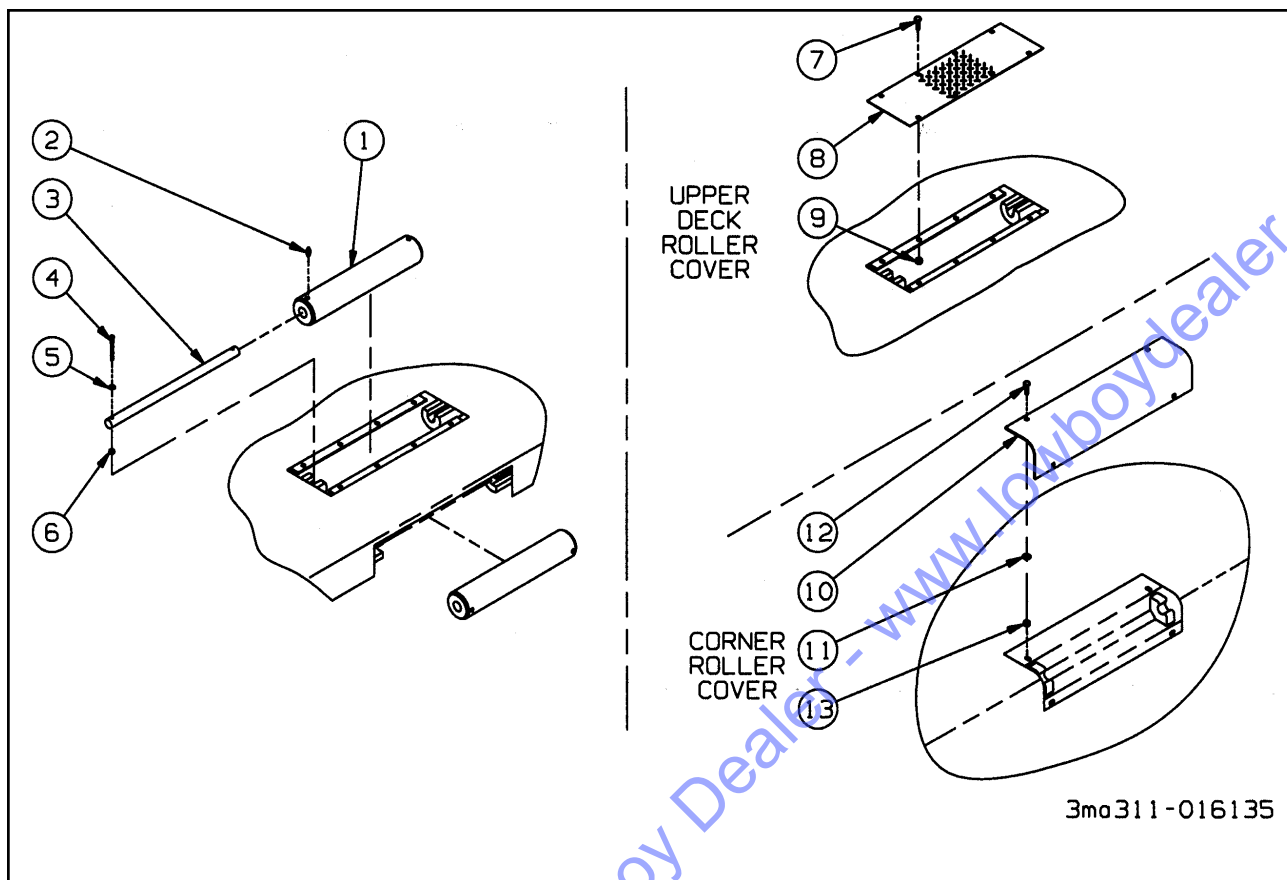


Figure 1-11 Slope Roller 90 Drop Deck

SLOPE ROLLER 90° DROP DECK (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-645-010085	ROLLER ASSEMBLY SLOPE	1
1	3-645-010059	ROLLER WELDMENT CABLE - UPPER DECK	2
2	5010	ZERK FITTING 1/4	4
3	3-642-010134	ROD ROLLER	2
4	1-654-010055-11	SCREW HEX HEAD CAP 1/2-13 X 3-1/2 GR5	4
5	1-861-010032-15	WASHER FLAT 1/2	4
6	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4

COVER PLATE INSTALLATION - UPPER DECK ROLLER (OPTIONAL)

	3-222-010199	COVER PLATE INST. - UPPER DECK ROLLER	
7	1-654-010070-02	SCREW RD HEAD SQ NECK 1/2-13 X 1-1/4	8
8	3-222-010198	COVER UPPER DECK ROLLER	1
9	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8

COVER PLATE INSTALLATION - CORNER ROLLER (OPTIONAL)

	3-222-010227	COVER PLATE INSTL. - CORNER ROLLER	
10	3-535-011751	PLATE CABLE WEAR	1
11	1-861-010032-14	WASHER FLAT 1/2 N	4
12	1-654-010070-03	SCREW RDHD SQNK 1/2-13X1-1/2	4
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4

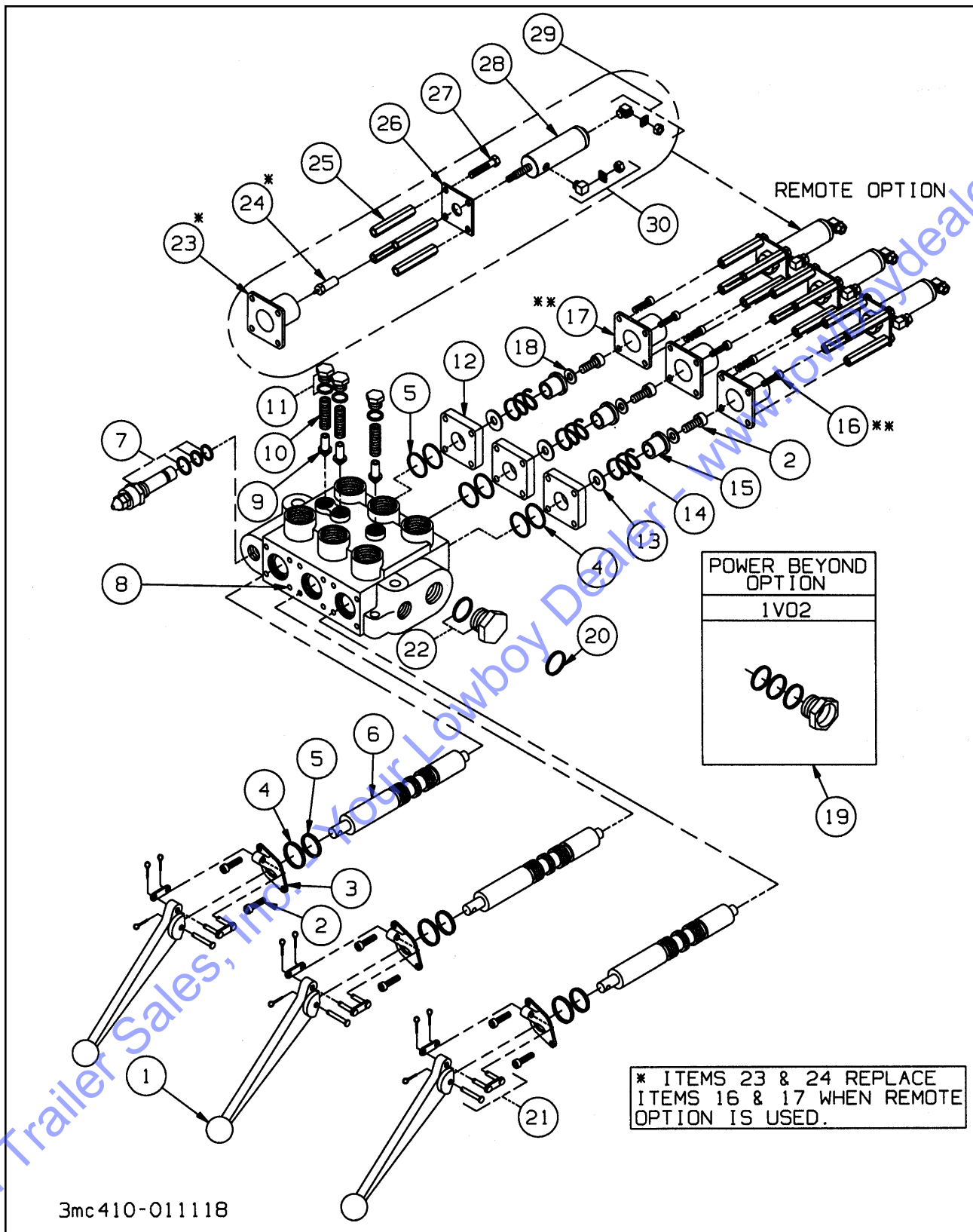


Figure 1-12 Three Spool Valve

THREE SPOOL VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010008	VALVE ASSEMBLY	
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	2A0293-7214	SEAL SPOOL	6
6	1V0090	*SPOOL 4-WAY	3
7	1R0017	RELIEF ASSEMBLY (1500-3000 PSI) (PRESET @2500 PSI)	1
8	1V0360	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	CAPSCREW (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-RING)	1
20	2A293-7214	GROMMET RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG CONVERSION	1
23**	3-161-010034	CAP MODIFIED VALVE SPOOL	1
24**	1-007-010029	ADAPTER SWIVEL	4
25	3-711-010055	SPACER	4
26	3-482-010288	MOUNT AIR CYLINDER VALVE	1
27	1-654-010047-02	SCREW HEX CAP 1/4-20 GR5	4
28	3-238-010001	CYLINDER AIR	1
29	1-297-010008-01	FITTING AIR 90	1
30	68CA-2-2	CONNECTOR	1

* SOLD AS MATCHED SET ONLY.

** ITEMS 23 AND 24 REPLACE ITEMS 16 AND 17 WHEN REMOTE OPTION IS USED.

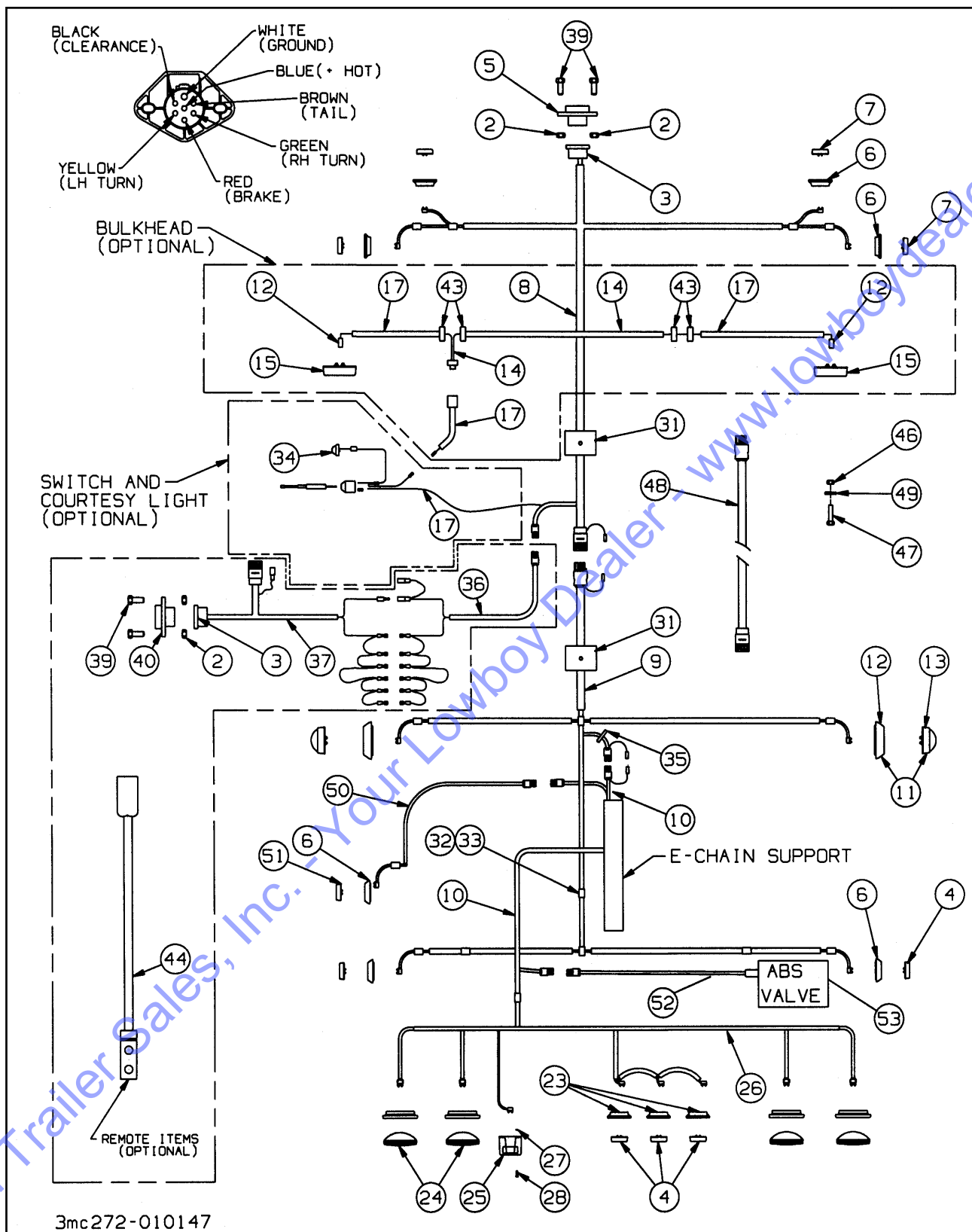
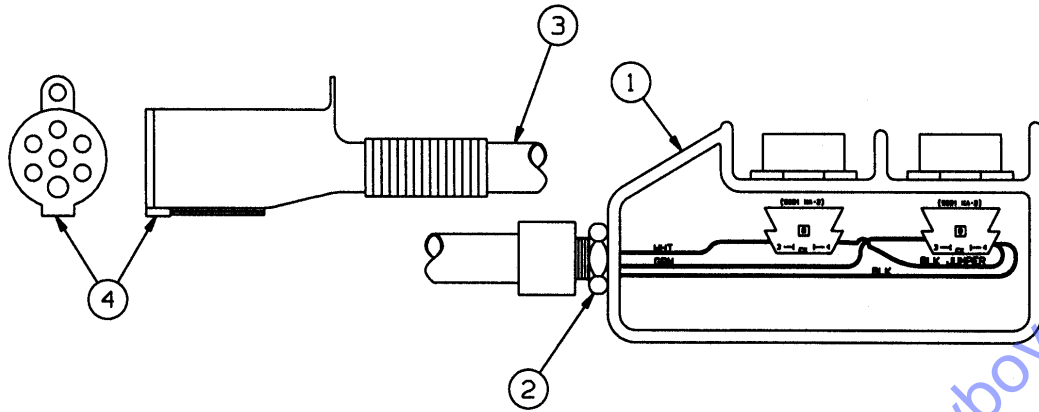


Figure 1-13 Electrical System

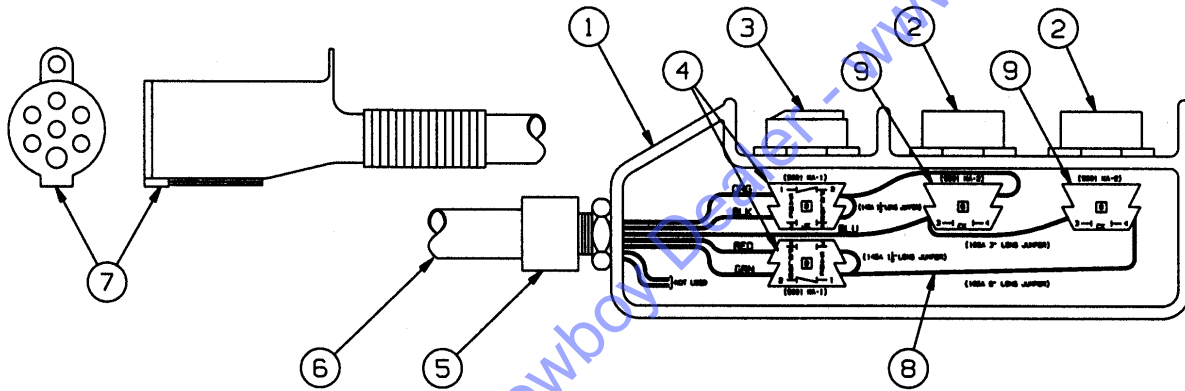
ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010147	ELECTRICAL INSTL 330-42	
	3-272-010148	ELECTRICAL INST. REMOTE	
2	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
3	59W-2-3	RUBBER BOOT	1
4	10205R	REFLECTOR LAMP RED	2
5	59S-7	RECEPTACLE 7 PIN	1
6	10403	GROMMET MOUNT	7
7	10205Y	REFLECTOR LAMP YELLOW	4
8	3-368-010243-01	HARNESS ASSY FRONT MAIN	1
9	3-368-010244	HARNESS ASSY REAR MAIN	1
10	102836	CABLE ASSY	1
11	60015Y	LIGHT TURN AND CLEARANCE W/ GROMMET	2
12	1-343-010010	GROMMET 9/16	6
13	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	10
14	3-368-010250	HARNESS ASSY BULKHEAD LIGHT	1
15	64181	LAMP HALOGEN RECT. QUARTZ	2
16	3-368-010252	HARNESS ASSY BULKHEAD LIGHT	1
17	101381	HARNESS LIGHT WORK & COURTESY	1
23	10404	GROMMET MOUNT	3
24	40002R	LIGHT STOP TURN TAIL	4
	40202R	LAMP	1
	40700	GROMMET	1
25	15009	LICENSE LAMP	1
	15725	BRACKET	1
	15700	GROMMET	1
	15206	LAMP	1
26	3-368-010175	HARNESS WIRE U/C REAR	1
27	1-861-010034-07	WASHER SPLIT LOCK #10	2
28	1-656-010003051	SCREW ROUND HEAD MACH #10-24X3/4	2
31	3-181-010006	HOSE CLAMP	*5,8
32	1-510-010001	NUT FLANGE LOCK 3/8-16	*16,19
33	2-181-010001	HOSE CLAMP	11
34	26331	LIGHT COURTESY TRUCKLITE	1
35	1-343-010007	GROMMET	1
36	3-368-010245-01	HARNESS POWER JUMPER	1
37	3-368-010246	HARNESS FRONT REMOTE	1
39	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	
40	3-272-010125	RECEPTACLE 7 PIN (FOR REMOTE ONLY)	1
43	1-343-010007	GROMMET	4
44	3-765-010001	SWITCH REMOTE CONTROL ASSY (SINGLE REMOTE)	1
	3-209-010004-01	CONTROL REMOTE WINCH/TILT (DUAL REMOTE)	1
	3-209-010004-03	CONTROL REMOTE WINCH/UC	1
	3-209-010004-04	CONTROL REMOTE TILT/UC	1
	3-209-010006-01	CONTROL REMOTE WINCH/TILT/UC (SEE PAGE FOR WIRED REMOTE OPTIONS)	1
45	1-660-010006	SEALANT ELECTRICAL DOW CORNING(NOT SHOWN)	AR
46	1-512-010007-05	NUT HEX 1/4-20 GRB	13
47	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 GR5	2
48	101852	DIAGNOSTIC CABLE W/ SWITCH (SEE PAGE 1-43)	1
49	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
50	3-368-010294	HARNESS ABS LAMP	1
51	3-446-010046	LAMP ABS 2.5 DIA AMBER	1
52	101853	POWER CABLE 4 COND. (SEE PAGE 1-43)	1
53	101845	ECU/VALVE ASSEMBLY (SEE PAGE 1-43)	1

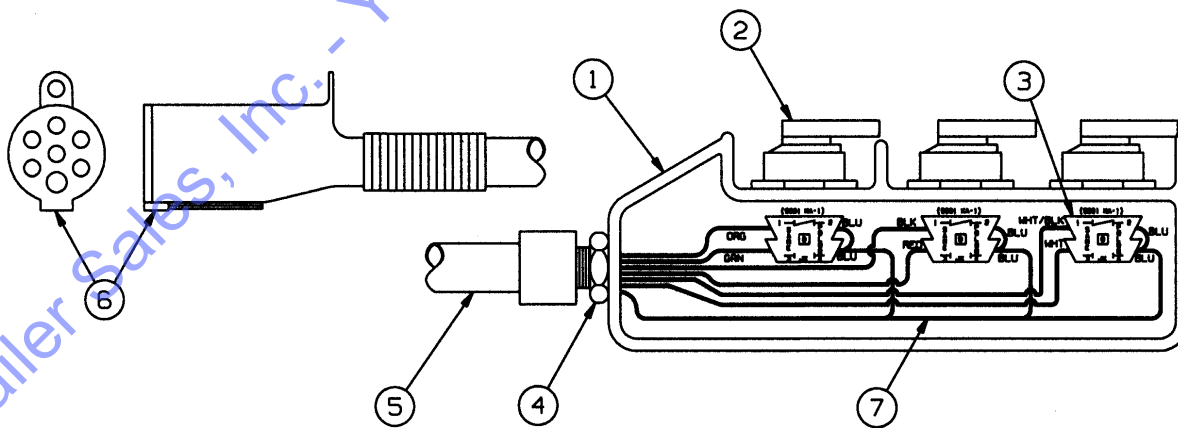
* THE FIRST QUANTITY IS FOR THE 42', THE SECOND QUANTITY IS FOR THE 48'



SINGLE FUNCTION REMOTE



DUAL FUNCTION REMOTE



TRIPLE FUNCTION REMOTE

3-410-011470-330

Figure 1-14 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-765-010001	SWITCH REMOTE CONTROL ASSEMBLY	
1	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	3-156-010007	THREE CONDUCTOR WIRE	50
4	59P8	TRAILER CONN PLUG	1

WIRED REMOTE CONTROL, DUAL

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010004	CONTROL DUAL FUNCTION REMOTE	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010080	ELECTRICAL PUSH BUTTON UNITS	2
	106069	SHORT RING NUT FOR BUTTON	1
3	3-272-010079	ELECTRICAL CONTACT OPERATOR	1
4	3-272-010078	ELECTRICAL CONTACT BLOCK	2
5	106-0079	CONNECTOR	1
6	3-156-010043	CABLE	50
7	59P8	TRAILER CONN PLUG	1
8	1-879-010011	WIRE BLACK	2
9	3-272-010095	ELECTRICAL CONTACT BLOCK	2
10	3-573-010296	DECAL, WINCH TILT	1
	3-573-010391	DECAL, REMOTE WINCH TILT	1
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	1
	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	1
	100290	DECAL, REMOTE WINCH WINCH	1
		(DECALS NOT SHOWN) (SEE PAGE 1-63)	

WIRED REMOTE CONTROL, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006	CONTROL REMOTE WINCH/TILT UNDERCARRIAGE	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010121	ELECTRICAL CONTACT OPERATOR 3 WAY	3
	106068	TALL RING NUT FOR BUTTON	2
3	3-272-010078	ELECTRICAL CONTACT BLOCK	3
4	106-0079	CONNECTOR	1
5	3-156-010043	CABLE	50
6	59P8	TRAILER CONN PLUG	1
7	1-879-010008	WIRE BLUE	2
8	3-573-010394	DECAL, TILT/WINCH/UNDERCARRIAGE	1
	3-573-010395	DECAL, TILT/WINCH/UNDERCARRIAGE	1
	100289	DECAL, WINCH/WINCH/TILT	1
		(DECALS NOT SHOWN) (SEE PAGE 1-63)	

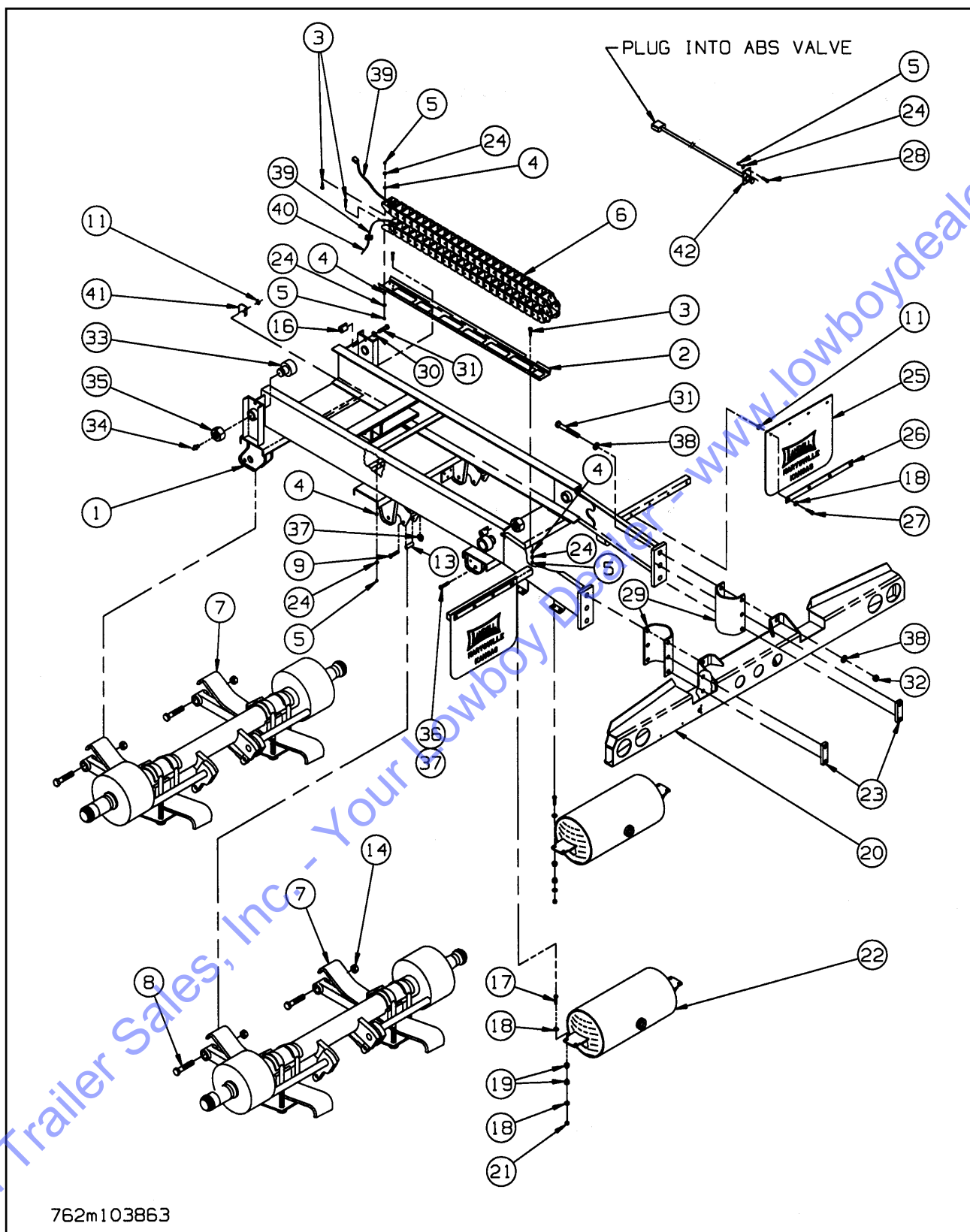
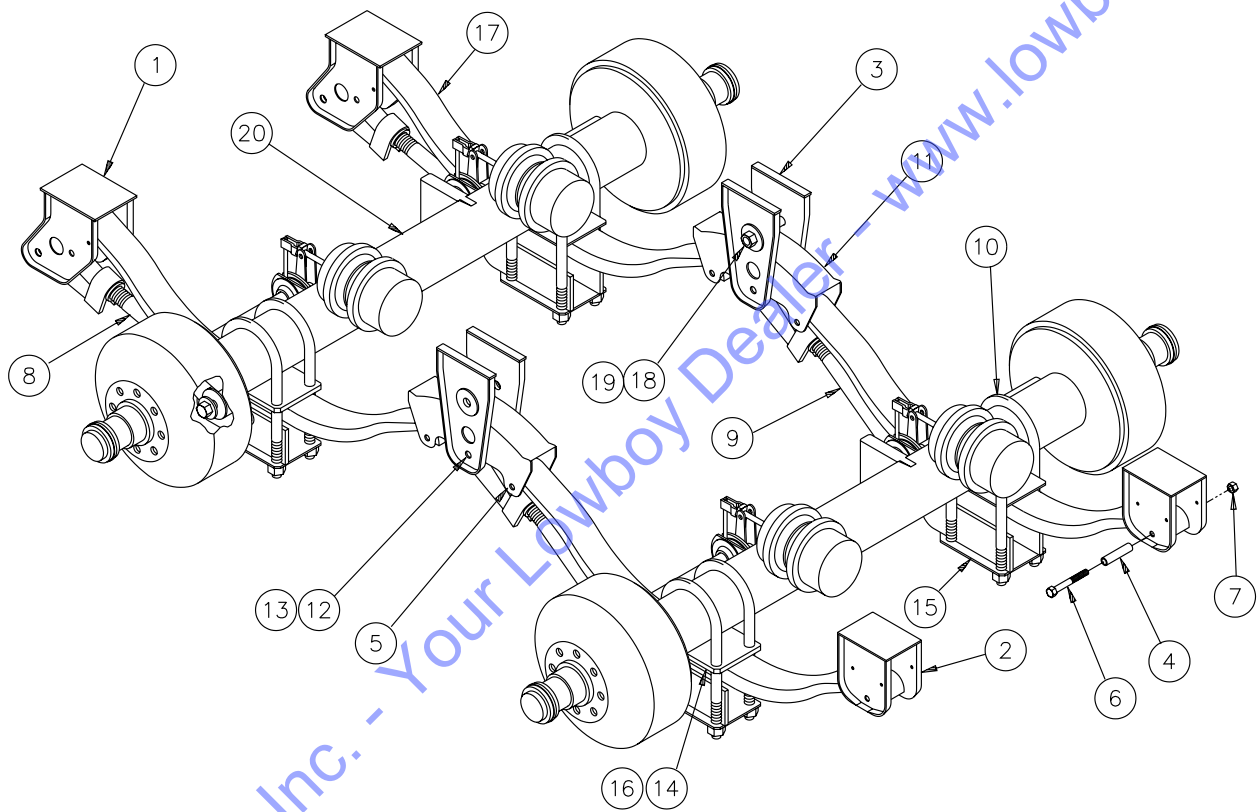


Figure 1-15 Undercarriage Assembly - Spring Ride

UNDERCARRIAGE ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	103684	SUSPENSION ASSEMBLY S/R (SINGLE AXLE)	
	103863	SUSPENSION ASSEMBLY S/R (TANDEM AXLE)	
1	103673	U/C WELDMENT SPRING SINGLE (NOT SHOWN)	1
	103675	U/C WELDMENT SPRING DROP DECK (NOT SHOWN)	1
	103677	U/C WELDMENT SPRING TANDEM	1
	103679	U/C WELDMENT SPRING TNDM DROP DECK (NOT SHOWN)	1
2	3-821-010005	TRAY CAT TRACK	1
3	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
4	1-861-010032-07	WASHER FLAT 1/4	11
5	1-512-010007-05	NUT HEX 1/4-20 GRB	11
6	3-755-010189-03	SUPPORT E-CHAIN (STANDARD LOAD ANGLE)	1
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD ANGLE)	1
	3-755-010189-1	LINK	1
	380-1	END MOUNTING BRACKET W/ HOLE	2
	380-2	END MOUNTING BRACKET W/ PIN	2
7	3-762-010563-6	SUSPENSION AXLE ASSY SPG 67.5 (SEE PAGE 1-25)	1
	3-762-010563-5	SUSPENSION AXLE ASSY SPG 70.5 (SEE PAGE 1-25)	1
8	0001-08	TORQUE ARM BOLT 7/8-14 X 5-1/4	*2,4
9	0001-04	HEX HEAD CAP SCREW 5/8-18 X 4-1/2	*,4
10	103465	BRAKE W/O ABS SINGLE (SEE PAGE 1-41)	1
	103683	BRAKE W/ ABS SINGLE (STD LOAD)(SEE PAGE 1-37)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD)(SEE PAGE 1-37)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD)(SEE PAGE 1-39)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD)(SEE PAGE 1-39)	1
11	1-510-010001	NUT FLANGE LOCK 3/8-16	10
13	0741-01	SPRING ROLLER	*2,6
14	0002-12	FLANGED LOCKNUT 7/8-14	*2,4
15	1-796-010004-02	TIE STRAP (NOT SHOWN)	AR
16	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
17	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	4
18	1-861-010032-11	WASHER FLAT 3/8	*16,24
19	805-2	STEP BUSHING	*8,16
20	101712	BUMPER WLDMT	1
21	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
22	3-780-010002	TANK AIR	*1,2
23	102283	BAR BUMPER E/P TAPPED	2
24	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
25	3-485-010001	MUD FLAP	2
26	3-762-010017	CLAMP MUD FLAP	2
27	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16 GR5	8
28	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20X1 GR5	2
29	101143	MOUNT BUMP ENERGY PAK	2
30	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
31	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
32	1-512-010002-15	NUT HEX LOCK 3/4-10 GRB SINGLE	2
	1-512-010007-12	NUT HEX 3/4-10 GRB TANDEM	2
33	3-076-010005	BEARING CAMFOLLOWER	4
34	5029	ZERK FITTING	4
35	104034	NUT HEX 2-12 GRB	4
36	0001-02	HEX HEAD CAP SCREW 5/8-18 X 5-1/8	2
37	0002-07	LOCKNUT 5/8-18	*2,6
38	622-3511-008	WASHER 3/4	14
39	102836	HARNESS ASSEMBLY E-CHAIN (FOR TRAILERS W/ ABS)	1
	3-156-010046	HARNESS ASSEMBLY (FOR TRAILERS W/O ABS)	1
41	2-181-010001	CLAMP	2
42	101852	DIAGNOSTIC CABLE W/ SWITCH (SEE PAGE 1-43)	1
*	FIRST QUANTITY IS FOR SINGLE AXLE, SECOND QUANTITY IS FOR TANDEM AXLE.		



**Figure 1-16 Single Leaf Spring Suspension
(Tandem Axle Shown)**

SUSPENSION ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY
	3-762-010563-6	SUSPENSION AXLE ASSY SPG 67.5 (INCL. ITEMS 8-10, 12-17, 20)	
	3-762-010563-5	SUSPENSION AXLE ASSY SPG 70.5 (INCL. ITEMS 8-10, 12-17, 20)	
1	0049-00	HANGER FRONT	2
2	0053-00	REAR HANGER UNDERMOUNT	2
3	0065-00	HANGER EQUALIZER (TANDEM AXLE ONLY)	2
4	0741-01	ROLLER SPRING	2
5	0001-04	HEX HEAD CAP SCREW (TANDEM AXLE ONLY)	4
6	0001-02	HEX HEAD CAP SCREW	2
7	0002-07	LOCK NUT, HEX	2
8	1035-20	TORQUE ARM ADJUSTABLE	1
9	0075-20	TORQUE ARM RIGID	1
10	0102-13	U-BOLT	4
11	0650-00	EQUALIZER BEAM ASSEMBLY (TANDEM AXLE ONLY)	2
12	0001-08	BOLT TORQUE ARM 7/8-14 X 5-1/4	2
13	0002-12	NUT LOCKING 7/8-14	10
14	0647-01	AXLE SEAT	2
15	0508-00	BOTTOM PLATE UNDERSLUNG	2
16	0375-00	DELTRIN LINER	2
17	3-720-010030	SPRING MONO LEAF HIGH ARCH	2
18	0001-14	EQUALIZER BOLT (TANDEM AXLE ONLY)	2
19	0274-01	FLANGED LOCK NUT (TANDEM AXLE ONLY)	2
20	3-042-010140-01	AXLE 70.5 16.5 X 7 SPG BRK 22.5K (SEE PAGE 1-35)	1
	3-042-010140-03	AXLE 67.5 16.5 X 7 SPG BRK 22.5K (SEE PAGE 1-35)	1
	3-432-010006	KIT AXLE SPRING ATTACHING PARTS (INCLUDES ITEMS 8-10,12-16)	
	3-432-010010	KIT EQUALIZER ASSEMBLY (TANDEM AXLE ONLY) (INCLUDES ITEMS 3,11,18-19)	

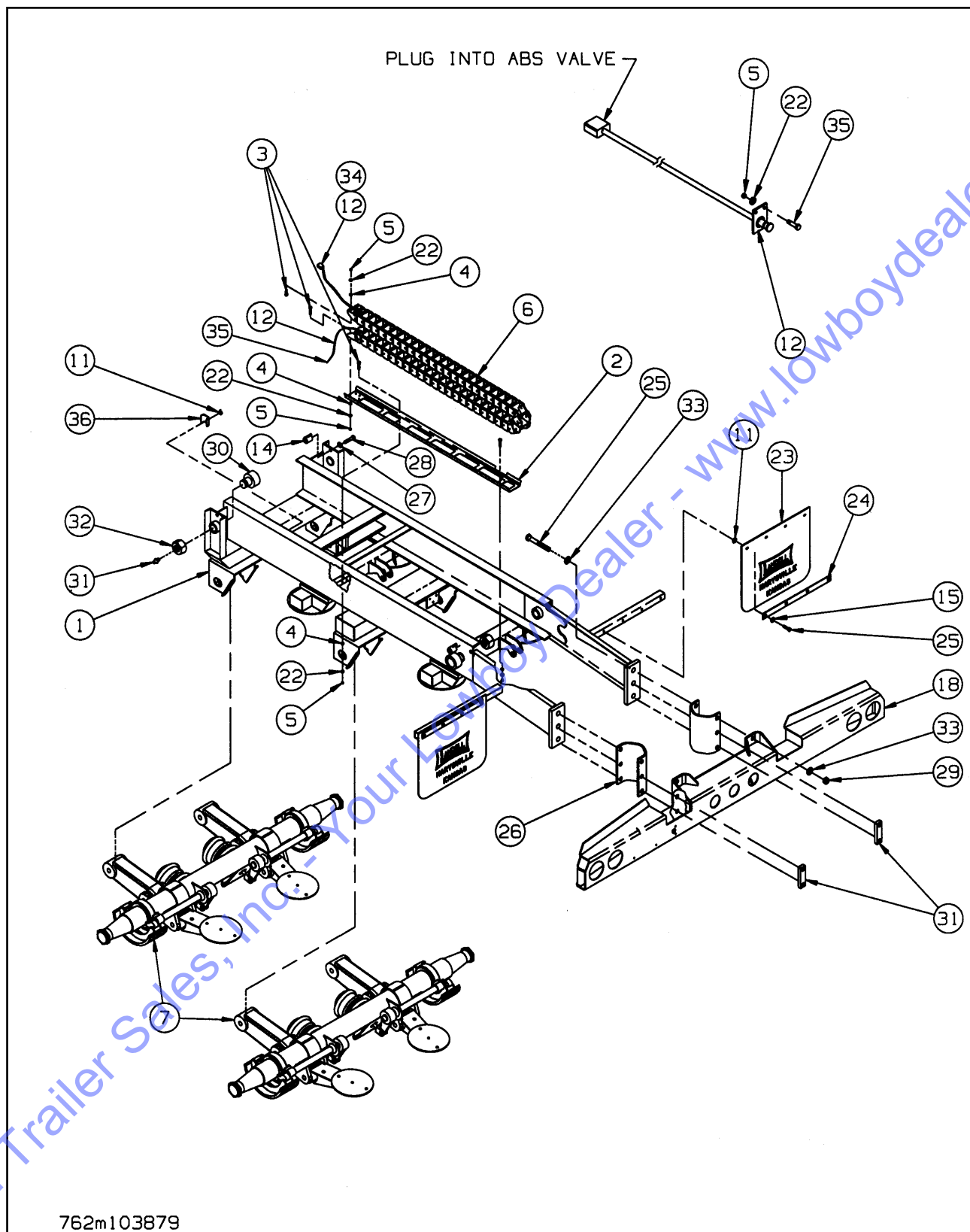


Figure 1-17 Undercarriage Assembly - Air Ride

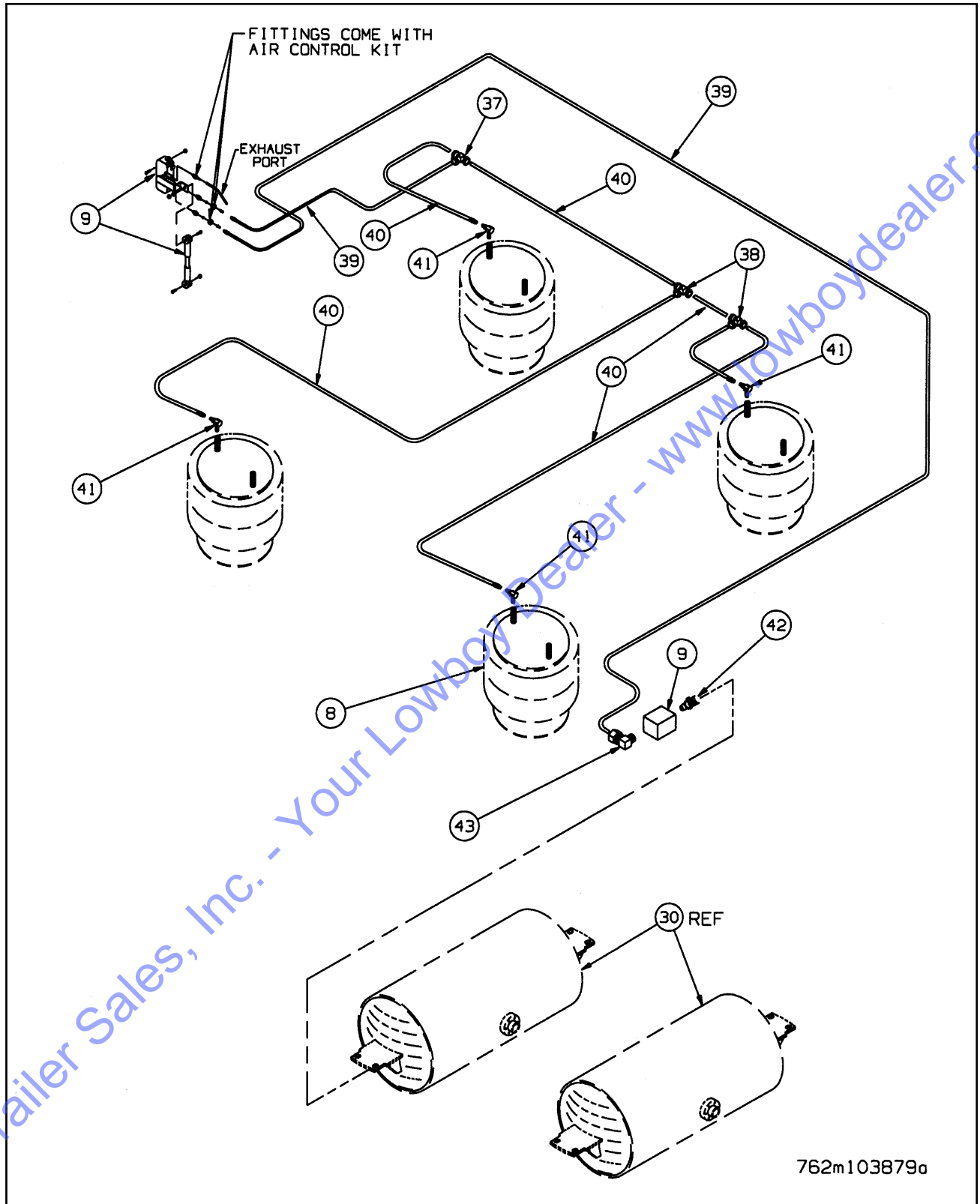


Figure 1-18 Air Ride Suspension System (Tandem)

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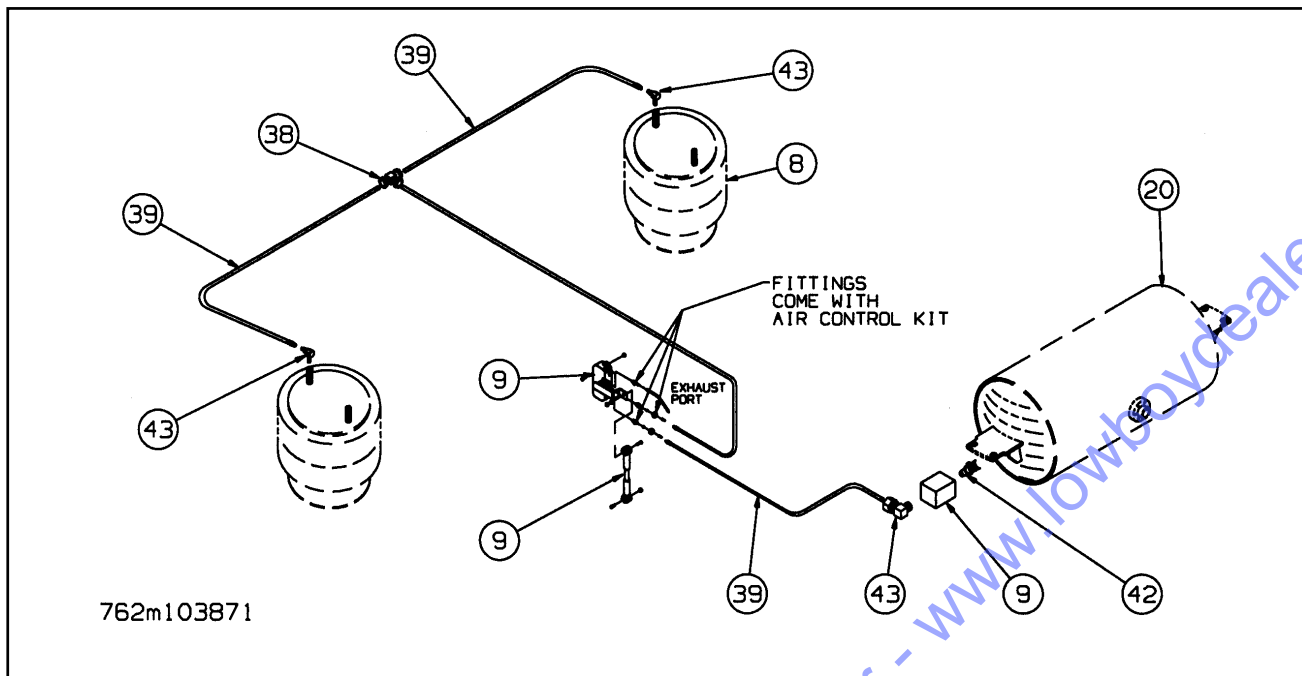


Figure 1-19 Air Ride Suspension System (Single)

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	103871	SUSP ASSY A/R 330-1-96 W/ ABS	
	103872	SUSP ASSY A/R 330-1-96 D/D W/ ABS	
	103873	SUSP ASSY A/R 330-1-102 W/ ABS	
	103874	SUSP ASSY A/R 330-1-102 D/D W/ ABS	
	103875	SUSP ASSY A/R 330-1-96 ABS-LLA	
	103876	SUSP ASSY A/R 330-1-96 D/D-ABS-LLA	
	103877	SUSP ASSY A/R 330-1-102 ABS-LLA	
	103878	SUSP ASSY A/R 330-1-102 D/D-ABS-LLA	
	103879	SUSP ASSY A/R 330-2-96 W/ ABS	
	103880	SUSP ASSY A/R 330-2-96 D/D W/ ABS	
	103881	SUSP ASSY A/R 330-2-102 W/ ABS	
	103882	SUSP ASSY A/R 330-2-102 D/D W/ ABS	
	103883	SUSP ASSY A/R 330-2-96 ABS-LLA	
	103884	SUSP ASSY A/R 330-2-96 D/D-ABS-LLA	
	103885	SUSP ASSY A/R 330-2-102 ABS-LLA	
	103886	SUSP ASSY A/R 330-2-102 D/D-ABS-LLA	
1	103518	U/C WELDMNT A/R SINGLE	1
	103674	U/C WELDMNT A/R SINGLE DROP DECK	1
	103676	U/C WELDMNT A/R TANDEM	1
	103678	U/C WELDMNT A/R TANDEM DROP DECK	1
2	3-821-010005	TRAY CAT TRACK	1
3	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
4	1-861-010032-07	WASHER FLAT 1/4	11
5	1-512-010007-05	NUT HEX 1/4-20 GRB	11
6	3-755-010189-03	SUPPORT E-CHAIN (STANDARD LOAD ANGLE)	1
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD ANGLE)	1
	3-755-010189-1	LINK	1

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	380-1	END MOUNTING BRACKET W/ HOLE	2
	380-2	END MOUNTING BRACKET W/ PIN	2
7	103999	AXLE WLDMT A/R 67.5 16.5 X 7 SPG BRK	1
	104000	AXLE WLDMT A/R 70.5 16.5 X 7 SPG BRK (FOR PARTS BREAKDOWNS, SEE PAGES 1-33 AND 1-35)	1
8	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33)	1
9	102732	AIR CONTROL SYSTEM (SEE PAGE 1-31)	1
10	103683	BRAKE W/ ABS SINGLE (STD LOAD) (SEE PAGE 1-37)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD) (SEE PAGE 1-37)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD) (SEE PAGE 1-39)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD) (SEE PAGE 1-39)	1
11	1-510-010001	NUT FLANGE LOCK 3/8-16	10
12	101852	DIAGNOSTIC CABLE W/ SWITCH(TANDEM)(SEE PAGE 1-43)	1
13	1-796-010004-02	TIE, STRAP (NOT SHOWN)	6
14	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
15	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	*4,8
16	1-861-010032-11	WASHER FLAT 3/8	*16,24
17	805-2	STEP BUSHING	*8,16
18	101712	BUMPER WLDMT	1
19	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
20	3-780-010002	TANK AIR	*1,2
21	102283	BAR BUMPER E/P TAPPED	2
22	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
23	3-485-010001	MUD FLAP	2
24	3-762-010017	CLAMP MUD FLAP	2
25	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16 GR5	8
26	101143	MOUNT BUMP ENERGY PAK	2
27	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
28	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
29	1-512-010007-12	NUT HEX 3/4-10 GRB	2
30	3-076-010005	BEARING CAMFOLLOWER	4
31	5029	ZERK FITTING	4
32	104034	NUT HEX 2-12 GRB	4
33	622-3511-008	WASHER 3/4	14
34	102836	HARNESS ASSEMBLY E-CHAIN (FOR TRAILERS W/ ABS)	1
	3-156-010046	HARNESS ASSEMBLY E-CHAIN (FOR TRAILERS W/O ABS)	1
35	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
36	2-181-010001	CLAMP	2
37	1-297-010010-04	FITTING AIR UNION TEE 3/8X3/8X1/4 (TANDEM AXLE)	1
38	1-297-010010-01	FITTING AIR UNION TEE (SINGLE AXLE)	1
	1-297-010010-03	FITTING AIR UNION TEE (TANDEM AXLE)	2
39	1-833-010001	TUBING NYLON 1/4 OD	*8,11
40	1-833-010002	TUBING NYLON (TANDEM AXLE)	1
41	1-297-010008-18	FITTING AIR 90 (TANDEM AXLE)	4
42	2083-8-4S	NIPPLE HEX	1
43	1-297-010008-07	FITTING AIR 90	*3,1

* FIRST QUANTITY LISTED IS FOR SINGLE AXLE; SECOND QUANTITY LISTED IS FOR TANDEM AXLE

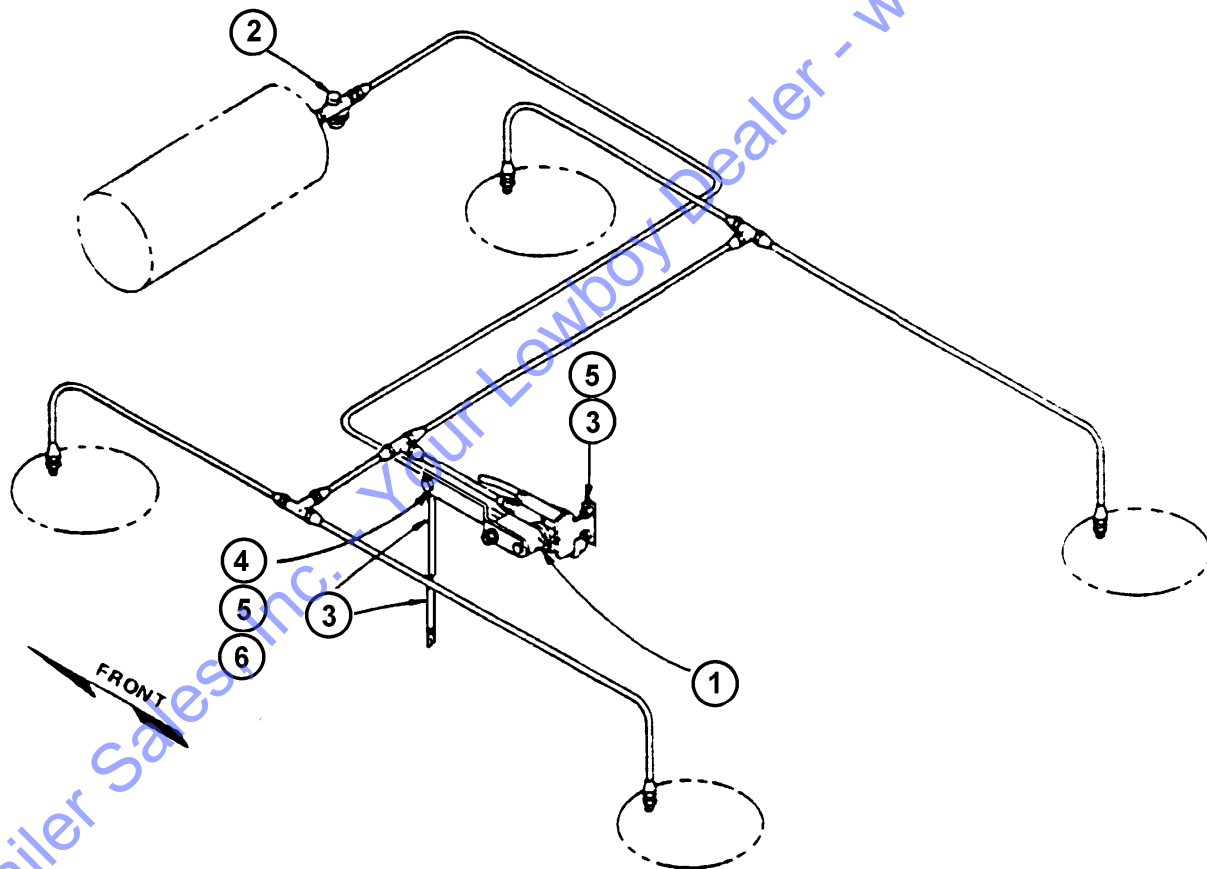
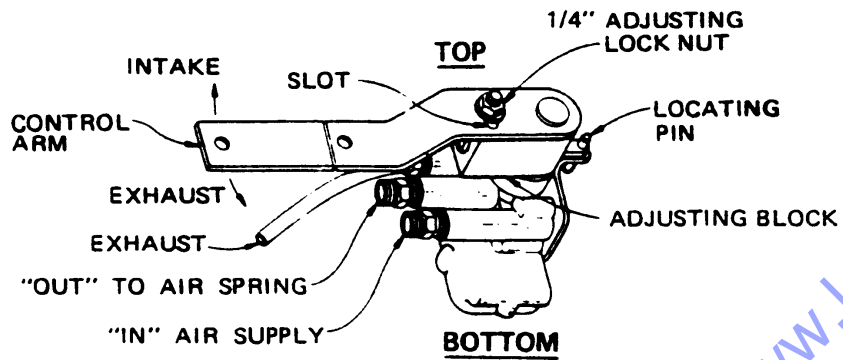
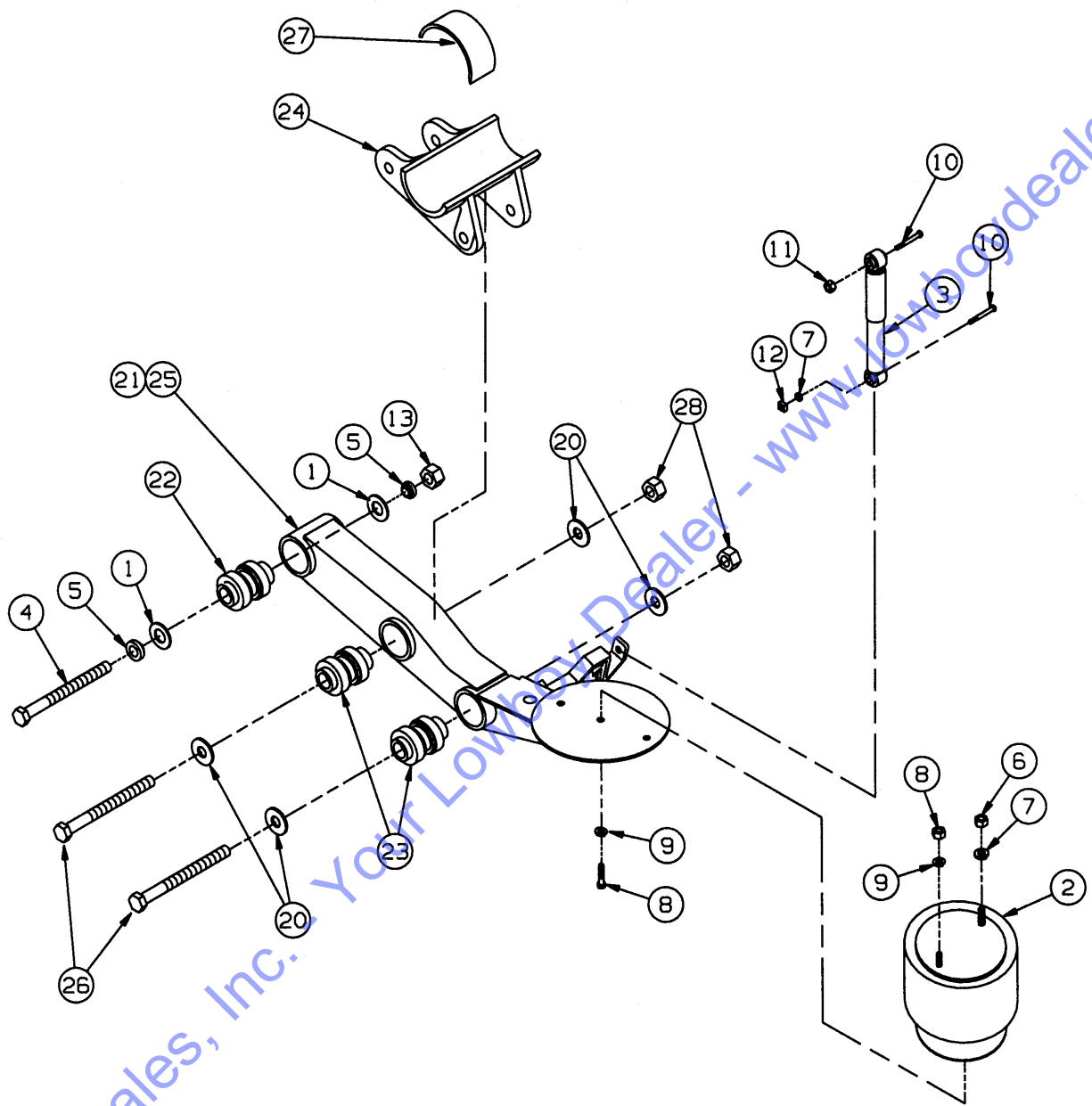


Figure 1-20 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION (SINGLE, TANDEM)	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	900 54 107	AIR PRESSURE VALVE & FILTER	1
3	481 00 224	SRK - 167 KIT (ADJ. LINK ASSY)	1
	930 02 349	CAP SCREW 1/4-20 X 3/4	
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

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762mo102361

Figure 1-21 Suspension Hanger Assembly

SUSPENSION HANGER ASSEMBLY

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (ITEMS 1-19)	
	102361	SUSPENSION BEAM, RLU-228 (ITEMS 20-28)	
1	90036177	FLAT WASHER	2
2	90557129	AIR SPRING ASSEMBLY	2
3	90045040	SHOCK	2
4	93908009	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	93408186	ALIGN BLOCK	2
6	93400149	3/4-16 HEX NUT GRB	2
7	93600077	LOCK WASHER, 3/4"	4
8	93400136	HEX NUT, 1/2-13	4
9	93600072	LOCK WASHER, 1/2"	4
10	93003597	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	93400492	LOCK NUT, 3/4" - 10	2
12	93400367	3/4-10 SQUARE NUT	2
13	93400506	LOCK NUT 1-1/8-7	2
14	90054038	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	94100685	LITERATURE LABEL (NOT SHOWN)	1
19	94100790	LITERATURE LABEL (NOT SHOWN)	1
	11005053	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	90036177	FLAT WASHER	8
21	90516600	EQUALIZING BEAM ASSEMBLY LH	1
22	90008139	RUBBER BUSHING (FRONT PIVOT)	2
23	90008139	RUBBER BUSHING (AXLE CONNECTION)	4
24	90001200	AXLE ADAPTER ASSEMBLY	2
25	900816601	EQUALIZING BEAM ASSEMBLY RH	1
26	93201051	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	90025288	SAFETY STRAP	2
28	93400506	LOCK NUT 1-1/8-7	4

NOTE: QUANTITIES LISTED ARE PER AXLE.

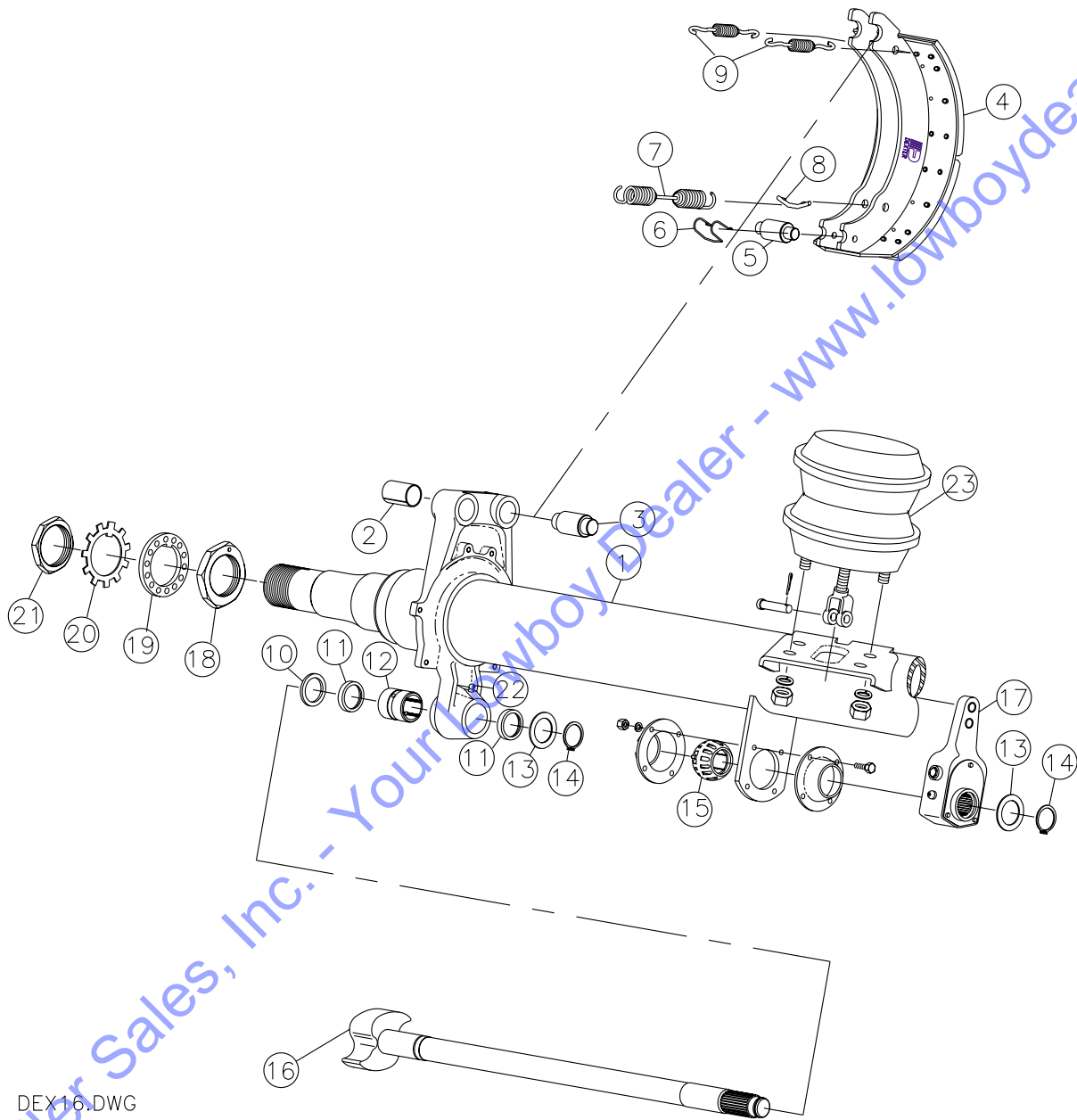


Figure 1-22 Axle and Brake Assembly

AXLE ASSEMBLY (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY. PER
		AXLE	
	3-042-010140-01	AXLE 70.5, 16.5 X 7 SPG BRK 22.5K	
	3-042-010140-03	AXLE 67.5, 16.5 X 7 SPG BRK 22.5K	
1	*	BEAM W/ BRACKETS	1
2**	014-068-00	BUSHING ANCHOR PIN	4
3**	056-017-00	PIN ANCHOR	4
4	040-180-00	BRAKE SHOE AND LINING	4
4A	041-058-01	LINING - BRAKE BLOCK CAM	4
4B	041-059-01	LINING - BRAKE BLOCK ANCHOR	4
	K71-138-00	BRAKE BLOCK KIT (ITEMS 4A, 4B, & P/N 022-018-00 RIVETS)	2
5**	014-065-00	ROLLER KNURLED	4
6**	071-122-00	RETAINER ROLLER	4
7**	046-096-00	SPRING SHOE RETURN	2
8**	056-018-00	RETAINER RETRACTOR SPRING	4
9**	046-097-00	SPRING SHOE KEEPER	4
10***	005-096-00	WASHER CAMSHAFT	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2
13***	005-134-00	WASHER CAMSHAFT (FOR 28 SPLINE CAMSHAFT)	2
14***	069-078-00	RETAINER CAMSHAFT (FOR 28 SPLINE CAMSHAFT)	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-192-03	CAMSHAFT LH 23-7/16 (70.5 TRACK)	1
	034-193-03	CAMSHAFT RH 23-7/16 (70.5 TRACK)	1
	034-192-01	CAMSHAFT LH 20-3/8 (67.5 TRACK)	1
	034-193-01	CAMSHAFT RH 20-3/8 (67.5 TRACK)	1
		CAMSHAFT REPAIR KIT (ITEMS 10-15, AND 22)	
17	055-040-04	SLACK ADJ AUTOMATIC W/ ASD 06001 SNAPNUT (GUNITITE)	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 65°	2
23	3-128-010002	CHAMBER AIR BRAKE (MIDLAND)	2

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

** THESE PARTS ARE AVAILABLE AS PART OF BRAKE SHOE HARDWARE KIT P/N K71-136-00.

*** THESE PARTS ARE AVAILABLE AS PART OF CAMSHAFT REPAIR KIT P/N K71-135-00.

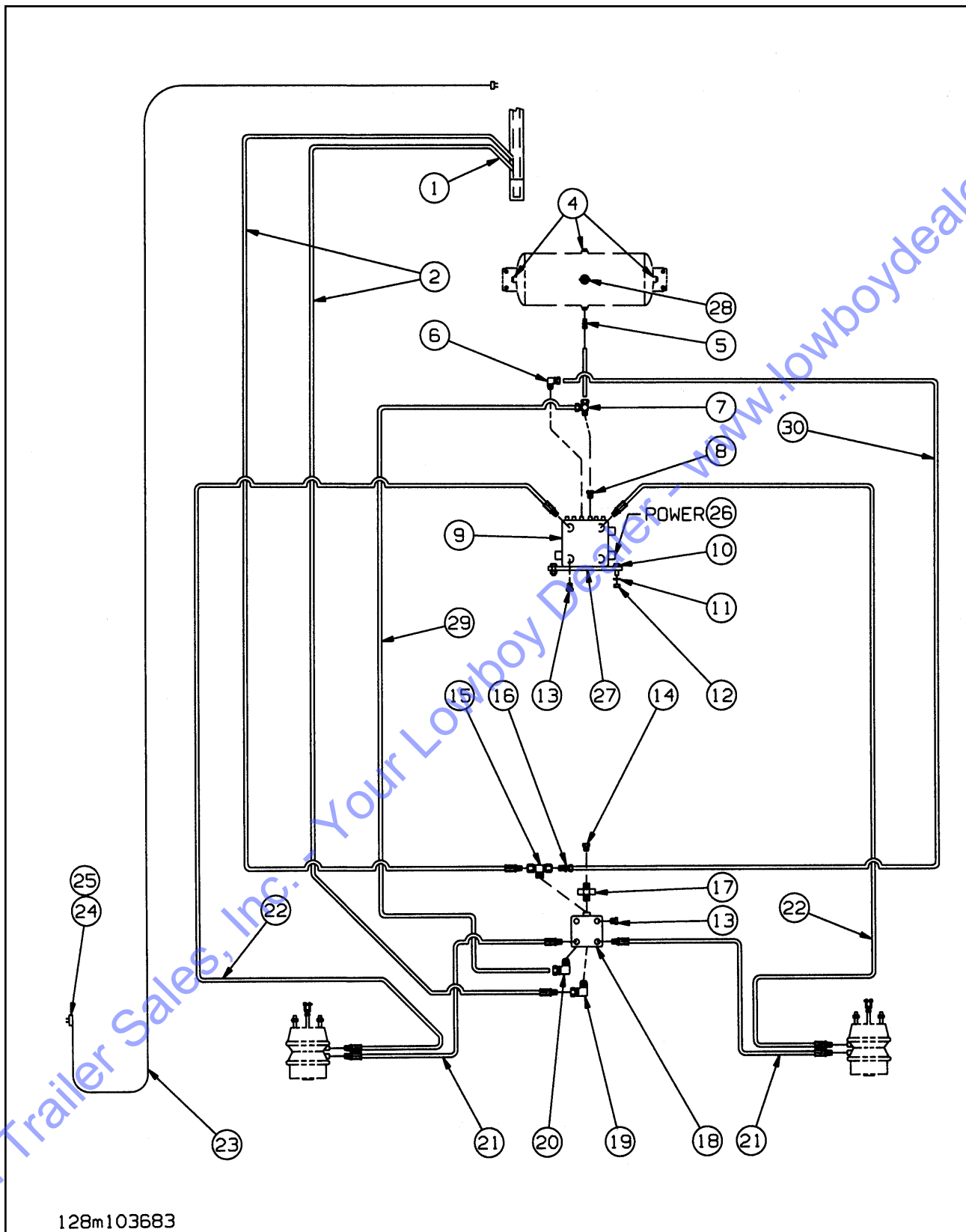
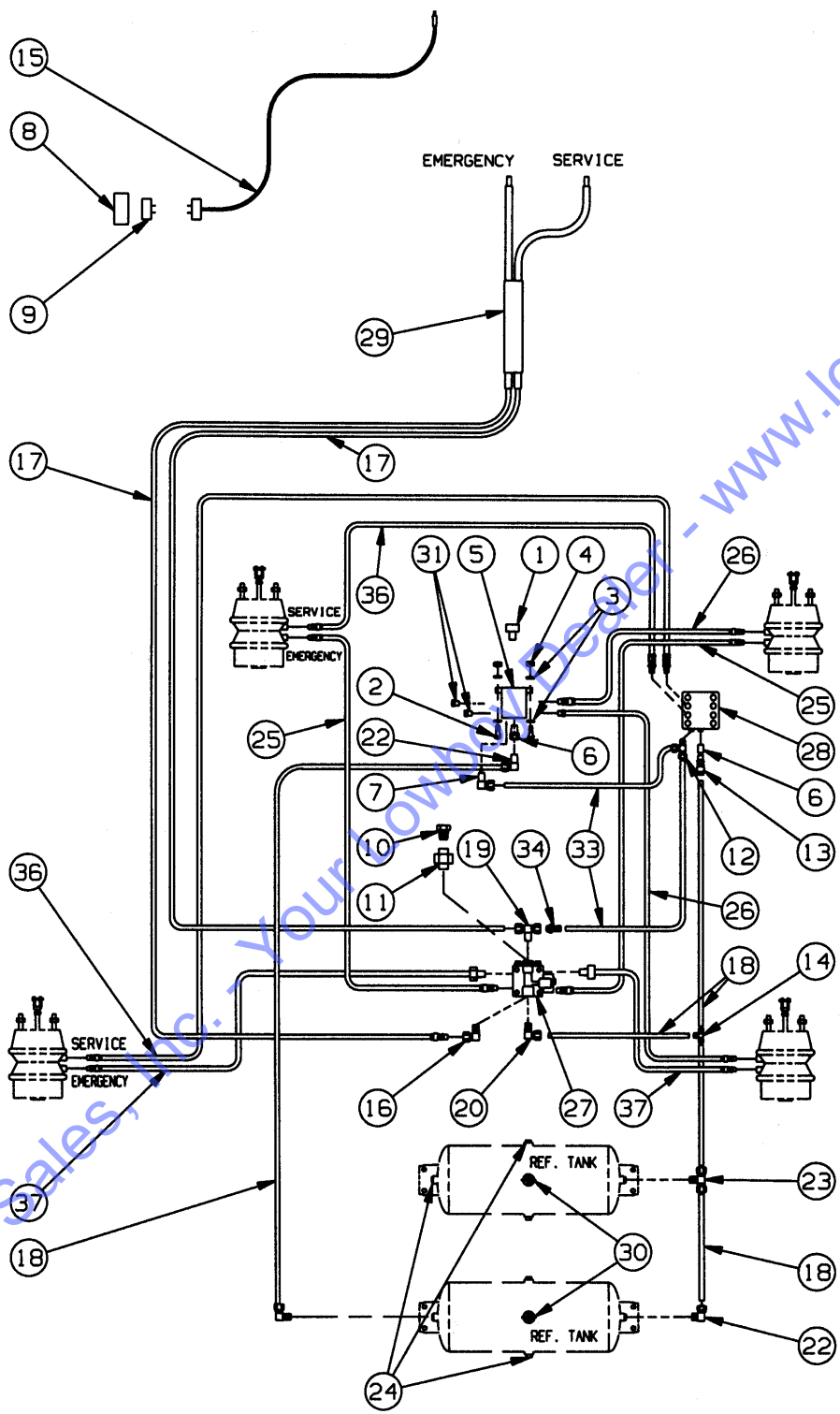


Figure 1-23 Air Brake System, Single Axle

AIR BRAKE SYSTEM, SINGLE AXLE

ITEM	PART NO.	DESCRIPTION	QTY.
	103683	BRAKE W/ ABS SINGLE (STD LOAD)	
	103695	BRAKE W/ ABS SINGLE (LOW LOAD)	
1	1-394-010001	HOSE ABRASION SLEEVE X 2	4'
2	103698	HOSE AIR 3/8(W/O ABS OR STD LOAD)	2
	103699	HOSE AIR 3/8(LOW LOAD)	2
4	1-560-010002-04	PLUG PIPE 1/2	3
5	1-297-010007-16	FITTING AIR	1
6	1-297-010008-18	FITTING AIR 90	1
7	1-297-010011-07	FITTING AIR TEE	1
8	118-2659-9	BUSHING 1/2 X 3/4	1
9	101421	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-43)	1
10	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 GR5	2
11	1-861-010032-10	WASHER FLAT 3/8	4
12	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	2
13	1-297-010033-03	FITTING PLUG, BRASS	4
14	1-560-010002-02	PLUG PIPE 1/4	1
15	1-297-010017-03	FITTING, BRASS TEE	1
16	1-297-010007-12	FITTING AIR	1
17	55B61	FRAME UNION	1
18	758-181	VALVE TASK 4 PORT	1
19	2089-6-6S	ADAPTER 90	1
20	1-297-010008-23	FITTING AIR 90	1
21	1-384-010038024	HOSE AIR 24"	2
22	1-384-010038042	HOSE AIR 42"	2
23	3-368-010297	HARNESS ABS LAMP	1
24	10403	GROMMET MOUNT	1
25	3-446-010046	ABS LAMP AMBER	1
26	3-272-010021	ELECTRICAL BUTT SPLICE	4
27	1-560-0100012-05	PLUG PIPE 3/4-14	1
28	56D4	COCK DRAIN AIR TANK	1
29	1-833-010003	TUBING NYLON 1/2	3'
30	1-833-010002	TUBING NYLON 3/8	2'
31	1-796-01003-01	TIE STRAP PLASTIC (NOT SHOWN)	10

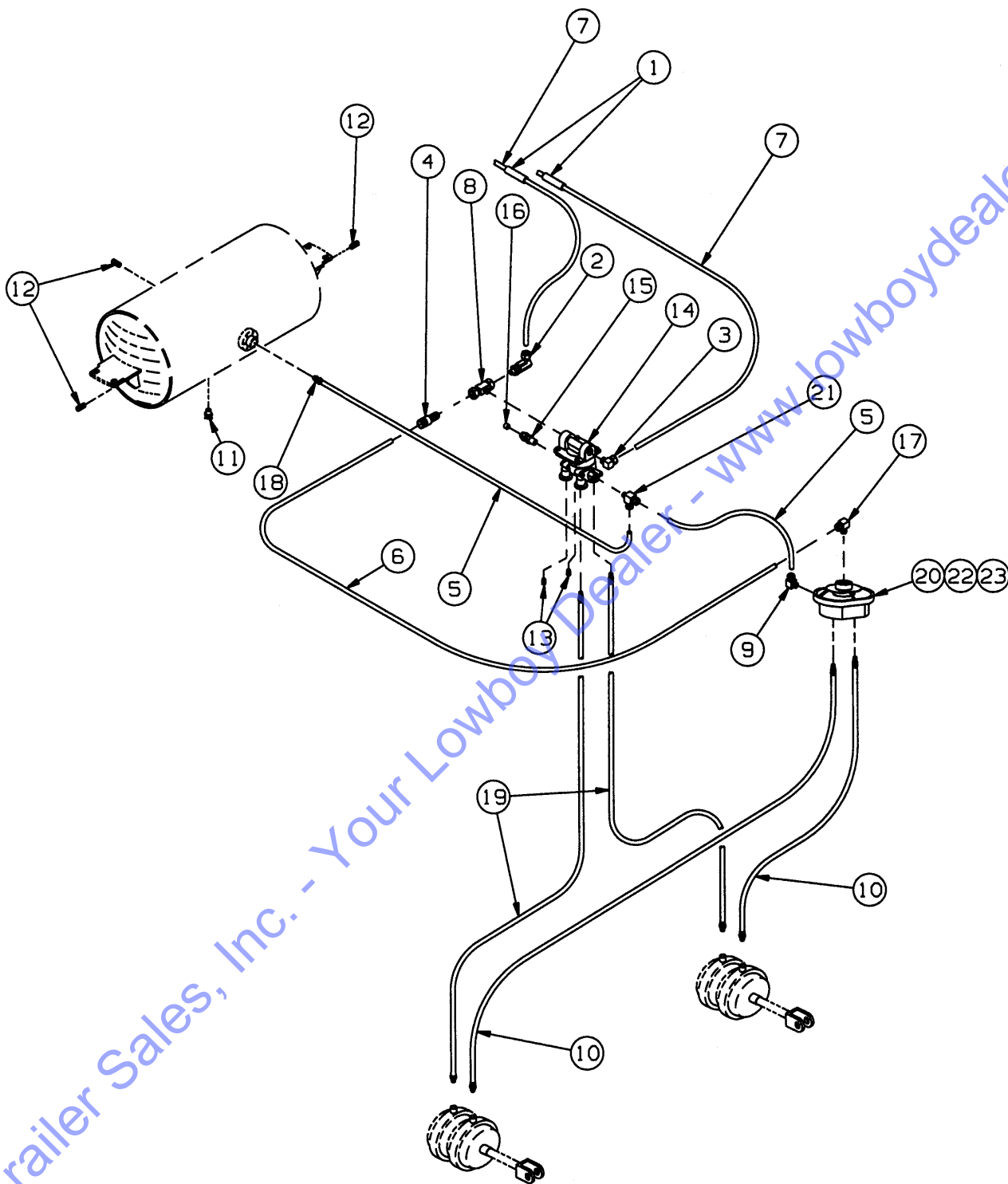


128m103819

Figure 1-24 Air Brake System, Tandem Axle

AIR BRAKE SYSTEM, TANDEM AXLE

ITEM	PART NO.	DESCRIPTION	QTY.
	103819	BRAKE W/ ABS (STD LOAD)	
	103820	BRAKE W/ ABS (LOAD LOAD)	
1	1-560-010002-05	PLUG PIPE 3/4-14	1
2	1-654-010051-08	SCREW HEX CAP 3/8-16 X 1-3/4 GR5	2
3	1-861-010032-10	WASHER FLAT 3/8	2
4	1-512-0120005-05	NUT HEX LOCK 3/8-16 GR5	2
5	101420	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-43)	1
6	3/4X1/2BUSH	BUSHING	1
7	1-297-010008-18	FITTING AIR 90	1
8	10403	GROMMET MOUNT	1
9	3-446-010046	LIGHT ABS LAMP	1
10	1-560-010002-02	PLUG PIPE 1/4	1
11	55B61	FRAME UNION	1
12	1-297-010011-05	FITTING AIR M/RUN TEE	1
13	1-297-010007-16	FITTING AIR	1
14	1-297-010010-06	FITTING AIR UNION TEE	1
15	3-368-010294	HARNESS	1
16	2089-6-6S	ADAPTER 90	1
17	1-384-010038204	HOSE AIR 3/8 X 204 (STD LOAD)	2
	103699	HOSE AIR 3/8 X 230 (LOW LOAD)	2
18	1-833-010003	TUBING NYLON 1/2	9.5'
19	1-297-010017-03	FITTING BRASS PIPE M/ BRASS TEE	1
20	1-297-010008-23	FITTING AIR 90	1
21	3-755-010189-03	SUPPORT E-CHAIN (STD LOAD) (NOT SHOWN)	REF
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD) (NOT SHOWN)	REF
22	1-297-010008-24	FITTING AIR 90	1
23	1-297-010015-11	FITTING AIR TEE	1
24	1-560-010002-04	PLUG PIPE 1/2	6
25	1-384-010038056	HOSE AIR 3/8 X 56	2
26	1-384-010038038	HOSE AIR 3/8 X 38	2
27	758-181	VALVE TASK 4 PORT	1
28	1-861-010034-10	WASHER SPLIT LOCK 5/16	2
29	1-394-010001	HOSE ABRASION SLEEVE X 2	4'
30	56D4	COCK DRAIN AIR TANK	2
31	1-297-010033-03	FITTING	4
33	1-833-010002	TUBING NYLON 3/8	4.5'
34	1-297-010007-12	FITTING, AIR	1
35	3-272-010022	ELECTRICAL BUTT SPLICE (NOT SHOWN)	4
36	101003	HOSE AIR 3/8 X 48	2
37	1-384-010038024	HOSE AIR 3/8 X 24	2
39	1-796-010003-01	TIE STRAP PLASTIC (NOT SHOWN)	10



128m103465

Figure 1-25 Air Brake System, w/o ABS

AIR BRAKE SYSTEM W/O ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	103465	BRAKE W/O ABS SINGLE	
1	1-394-010001	HOSE ABRASION SLEEVE X 2	4
2	2088-6-6S	ADAPTER 45	1
3	2089-6-6S	ADAPTER 90	1
4	1-297-010007-12	FITTING AIR	1
5	1-833-010003	TUBING NYLON 1/2	6'
6	1-833-010003	TUBING NYLON 3/8	6'
7	103698	HOSE AIR 3/8	2
8	1-297-010017-03	FITTING BRASS PIPE M/ BRASS TEE	1
9	1-297-010008-24	FITTING AIR	1
10	3-384-010020	HOSE AIR 3/8	2
11	56D4	COCK DRAIN AIR TANK	1
12	1-560-010002-04	PLUG PIPE 1/2	3
13	1-560-010002-03	PLUG PIPE BLACK 3/8	2
14	758-181	VALVE TASK 4 PORT	1
15	55B61	FRAME UNION	1
16	1-560-010002-02	PLUG PIPE BLACK 3/8	1
17	1-297-010008-20	FITTING AIR 90	1
18	1-297-010007-16	FITTING AIR	1
19	1-384-010038024	HOSE AIR 24"	2
20	3-843-010005	VALVE RELAY 2 PORT THIRD AXLE	1
21	1-297-010011-06	FITTING AIR	1
22	1-512-010007-06	NUT HEX 5/16-18 GRB	2
23	1-861-010034-10	WASHER SPLIT LOCK 5/16	2

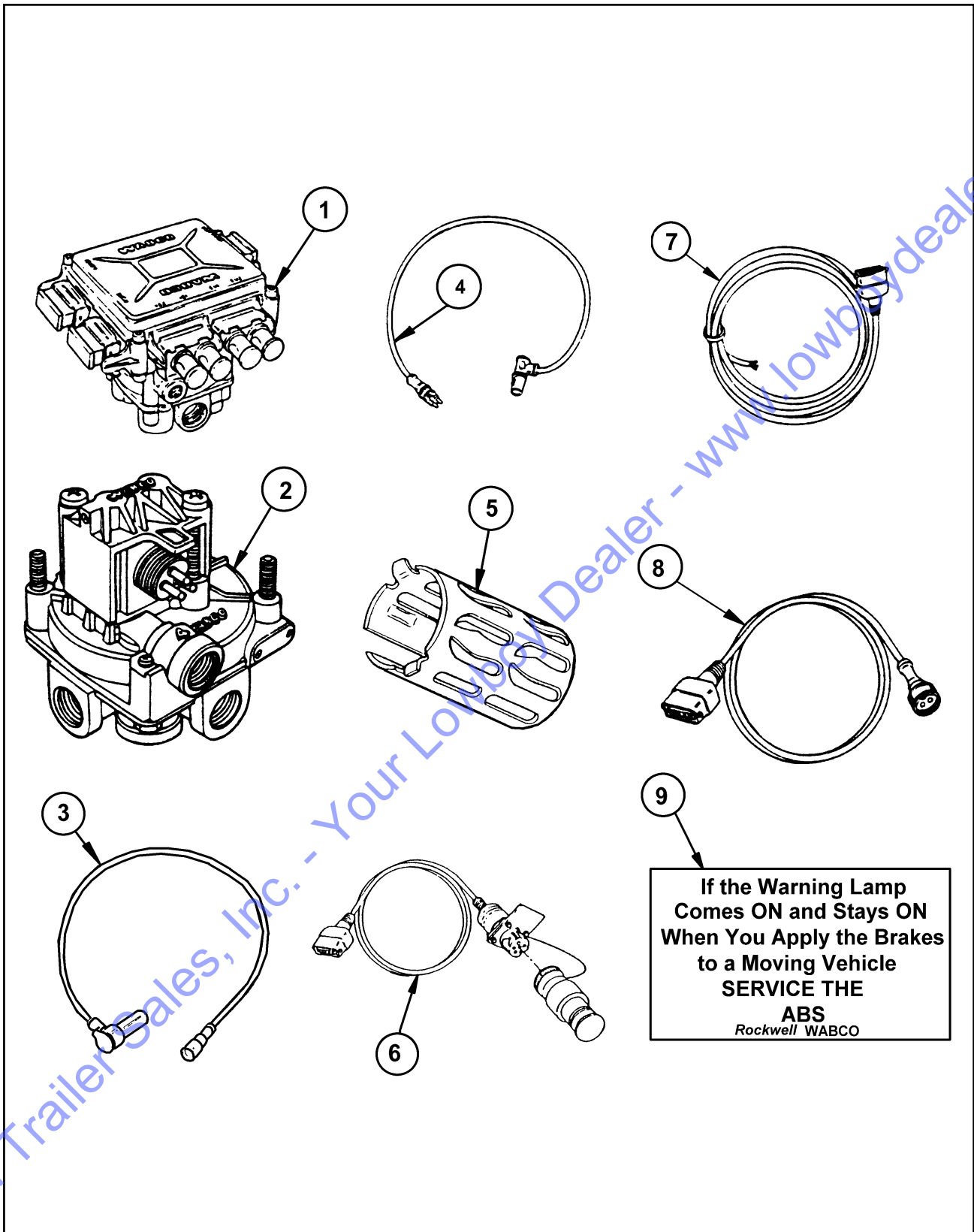


Figure 1-26 Brake Kit, Meritor WABCO (Rockwell) ABS

BRAKE KIT MERITOR WABCO (ROCKWELL) ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	101420	BRAKE KIT, ROCKWELL ABS, 4S/2M (TANDEM AXLE)	
	101421	BRAKE KIT, ROCKWELL ABS, 2S/1M (SINGLE AXLE)	
1	101845	ECU/VALVE ASSEMBLY	1
2	101846	ABS RELAY VALVE	1,0*
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	1,0*
9	101855	WARNNG LAMP LABEL	1
10	—	INSTALLATION GUIDE (NOT SHOWN)	1
11	104551	ABS MAINTENANCE MANUAL NO.33 (NOT SHOWN)	1

* THE FIRST QUANTITY LISTED IS FOR P/N 101420. THE SECOND QUANTITY LISTED IS FOR P/N 101421.

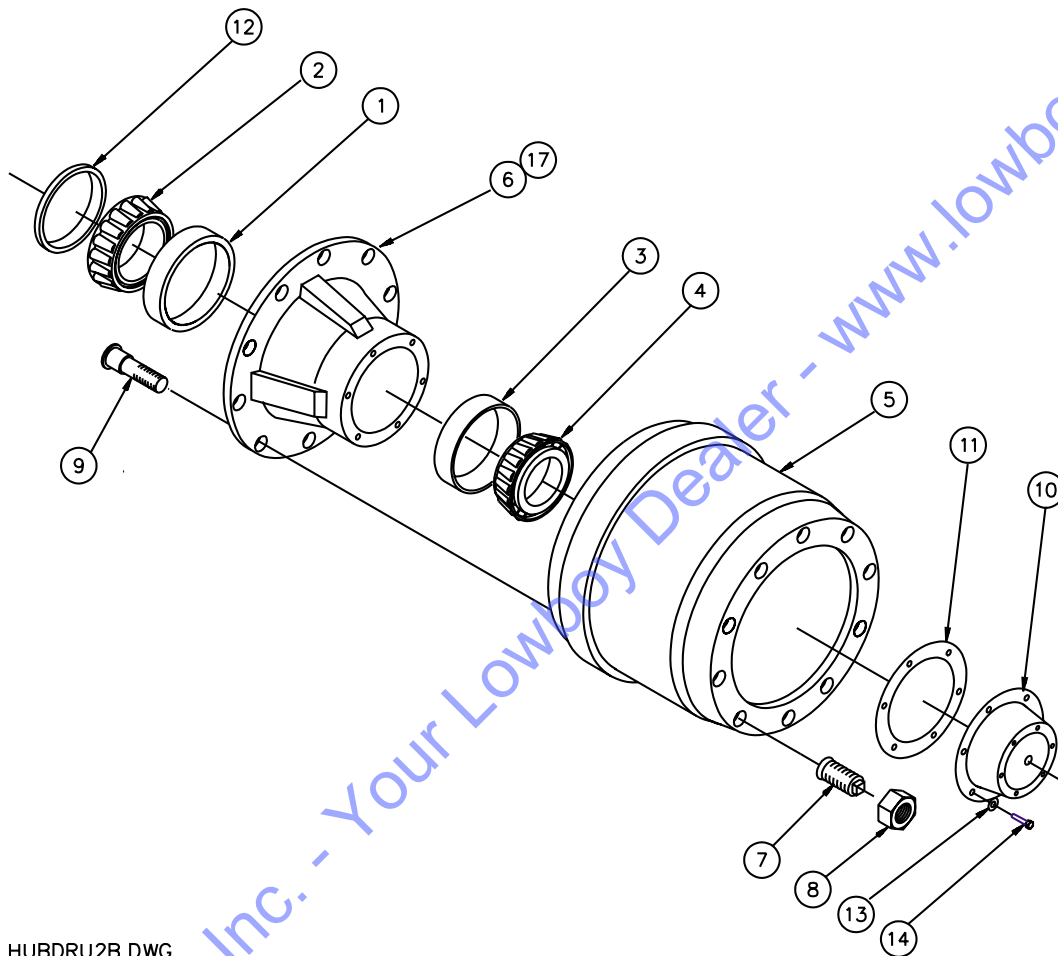


Figure 1-27 Outboard Ball Seat Mount Hub and Drum

OUTBOARD BALL SEAT HUB AND DRUM (PRIOR TO 1/99)

ITEM	PART NO.	DESCRIPTION	QTY.
	103779	HUB/OB DRUM 16.5 BSN-LH ABS	
	103780	HUB/OB DRUM 16.5 BSN-RH ABS	
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	66893	BRAKE DRUM	1
6	1020	HUB STEEL	1
7	107083	INNER CAPNUT L.H.	10
	107082	INNER CAPNUT R.H.	10
8	178921	OUTER CAPNUT L.H.	10
	178910	OUTER CAPNUT R.H.	10
9	159183	STUD L.H.	10
	159184	STUD R.H.	10
10	021-038-01 (4009)	CAP, HUB	1
11	071-124-00 (3047)	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 GR5	6
15	3-870-010014	WHEEL, 7.50 X 22.5 BALL SEAT MOUNT DISC	1
16	TR573	VALVE STEM	1
17	*	ABS TONE RING	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH HUB ONLY. IT SHOULD NEVER BE SOLD SEPARATELY.

HUBOABS2.DWG

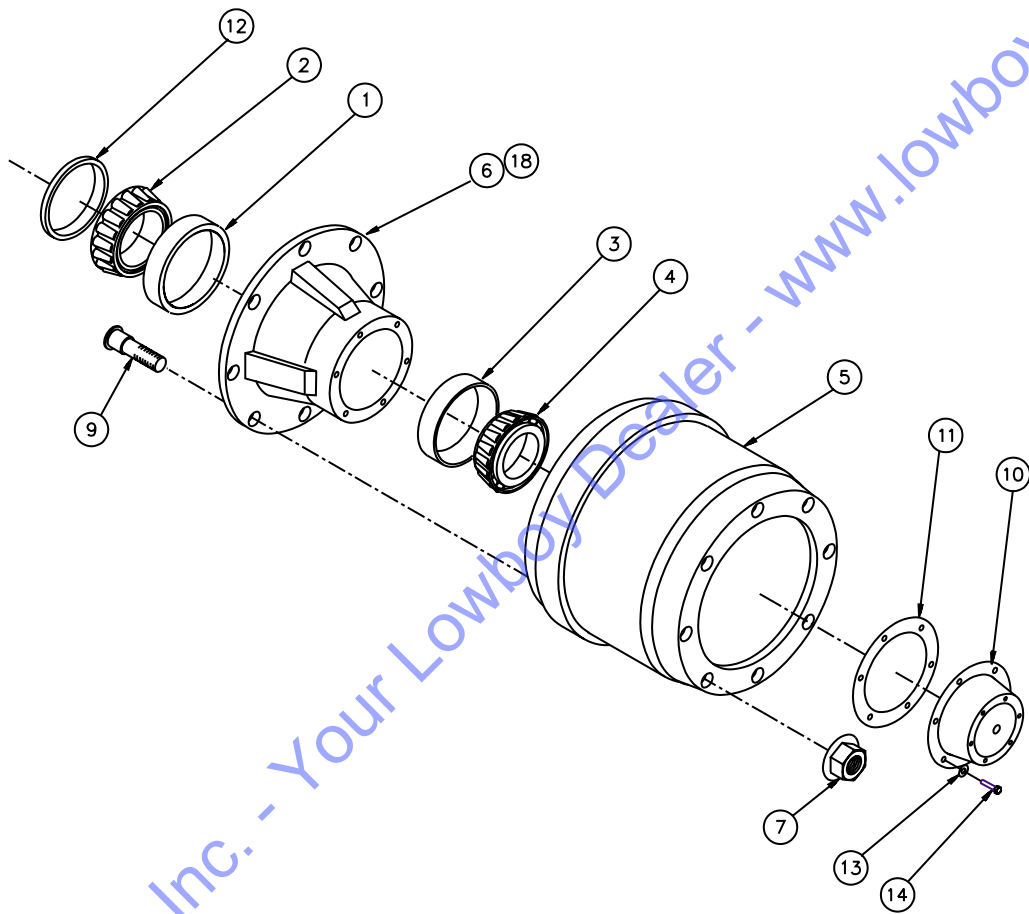


Figure 1-28 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	103781	HUB/DRUM 10 BOLT 16.5 PILOT ABS	
	103782	HUB AL/CF DRUM 16.5 PILOT ABS	
	103783	HUB/DRUM 16.5 PILOT LONG STUD	
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	66884	OUTBOARD MOUNTED BRAKE DRUM	1
	69996B	OUTBOARD MOUNTED CENTRIFUSE BRAKE DRUM(ALUM.)	1
6	2023	HUB 10 STUD 11.25	1
	2091	HUB 10 STUD 11.25 BC (ALUM.)	1
7	179933	NUT FLANGE MM22X1.5	10
9	101162	STUD R.H. MM22X1.5	10
	102190	STUD R.H. 22X1.5 (ALUM.)	10
	101160	STUD R.H. 22X1.2 (LONG STUD)	10
10	021-038-01 (4009)	CAP, HUB	1
11	071-124-00 (3047)	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 GR5	6
15	3-870-010104	WHEEL, DISC PILOT MOUNT 22.5 X 7.50 (10 BOLT)	1
16	TR573	VALVE STEM	1
18	*	ABS TONE RING	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH HUB ONLY. IT SHOULD NEVER BE SOLD SEPARATELY.

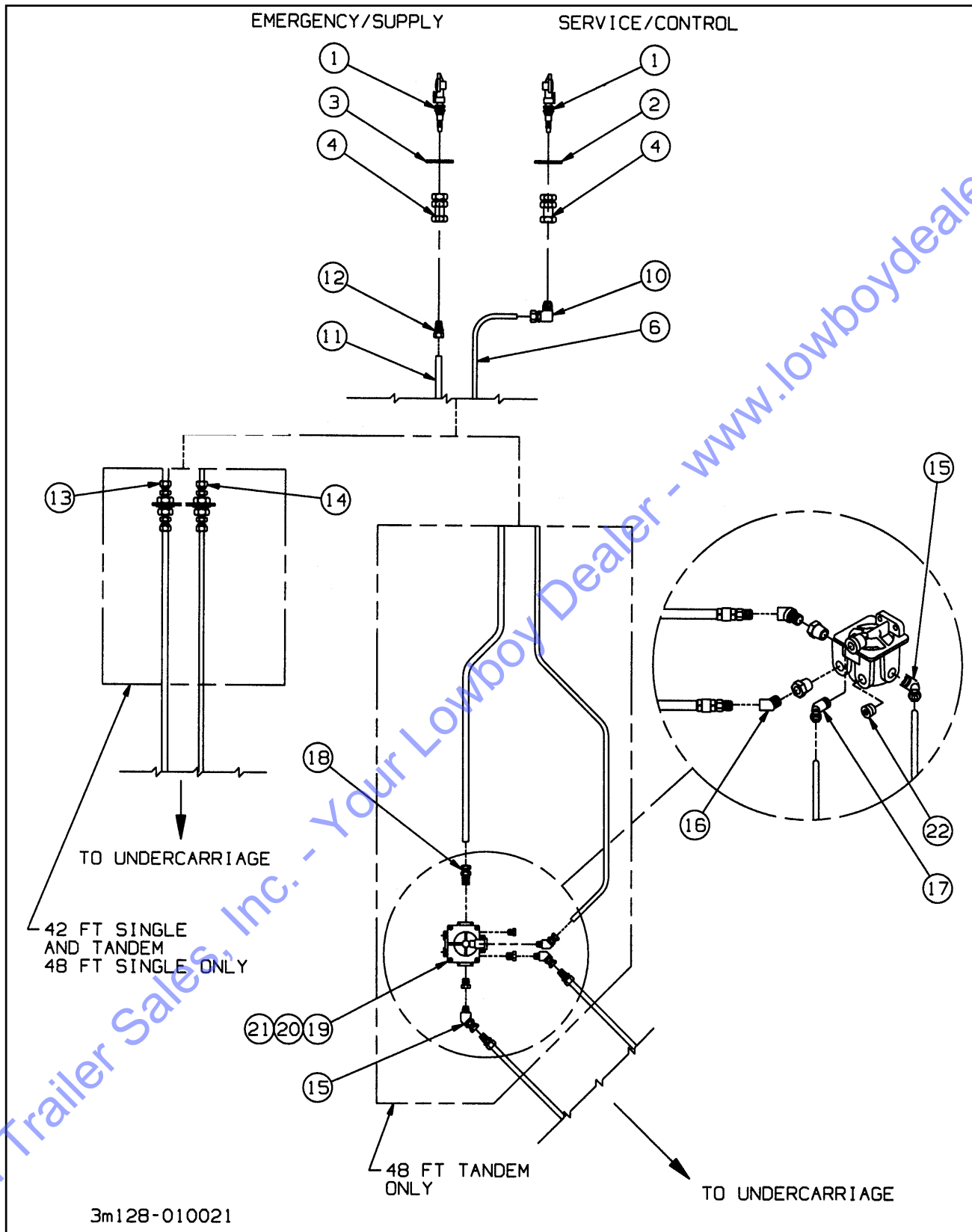


Figure 1-29 Air System

AIR SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010021-03	AIR SYSTEM 42' SINGLE OR TANDEM	
	3-128-010021-04	AIR SYSTEM 48' SINGLE	
	3-128-010021-07	AIR SYSTEM 48' TANDEM	
1	55B11	GLADHANDN (PRIOR 03/00)	2
	108801	GLADHAND RED AIR (AFTER 03/00)	1
	108802	GLADHAND BLUE AIR (AFTER 03/00)	1
2	55B61-7	TAG, SERVICE LINE	1
3	55B61-6	TAG, EMERGENCY LINE	1
4	55B61	FRAME UNION	2
6	1-833-010002	NYLON TUBING, 3/8 OD	AR
10	1-297-010008-18	FITTING AIR 90	1
11	1-833-010003	TUBING NYLON 1/2	AR
12	1-297-010007-14	FITTING, AIR	1
15	1-297-010013-16	FITTING, AIR 45 (48' TANDEM ONLY)	1
16	1-297-010013-13	FITTING, AIR 45 (48' TANDEM ONLY)	1
17	1-297-010013-12	FITTING, AIR 45 (48' TANDEM ONLY)	1
18	1-297-010007-16	FITTING, AIR (48' TANDEM ONLY)	1
19	3-843-010038	VALVE AIR RELAY-FAST AIR BALANCE (48' TANDEM ONLY)	1
20	1-861-010032-06	WASHER, FLAT 1/4N (48' TANDEM ONLY)	2
21	1-512-010005-01	NUT, HEX LOCK 1/4-20 (48' TANDEM ONLY)	2
22	1-560-010002-04	PLUG, PIPE 1/2 (48' TANDEM ONLY)	1
23	2081-8-6S	REDUCER (48' TANDEM ONLY)	2
24	2088-6-6S	FITTING, AIR 45 (48' TANDEM ONLY)	2

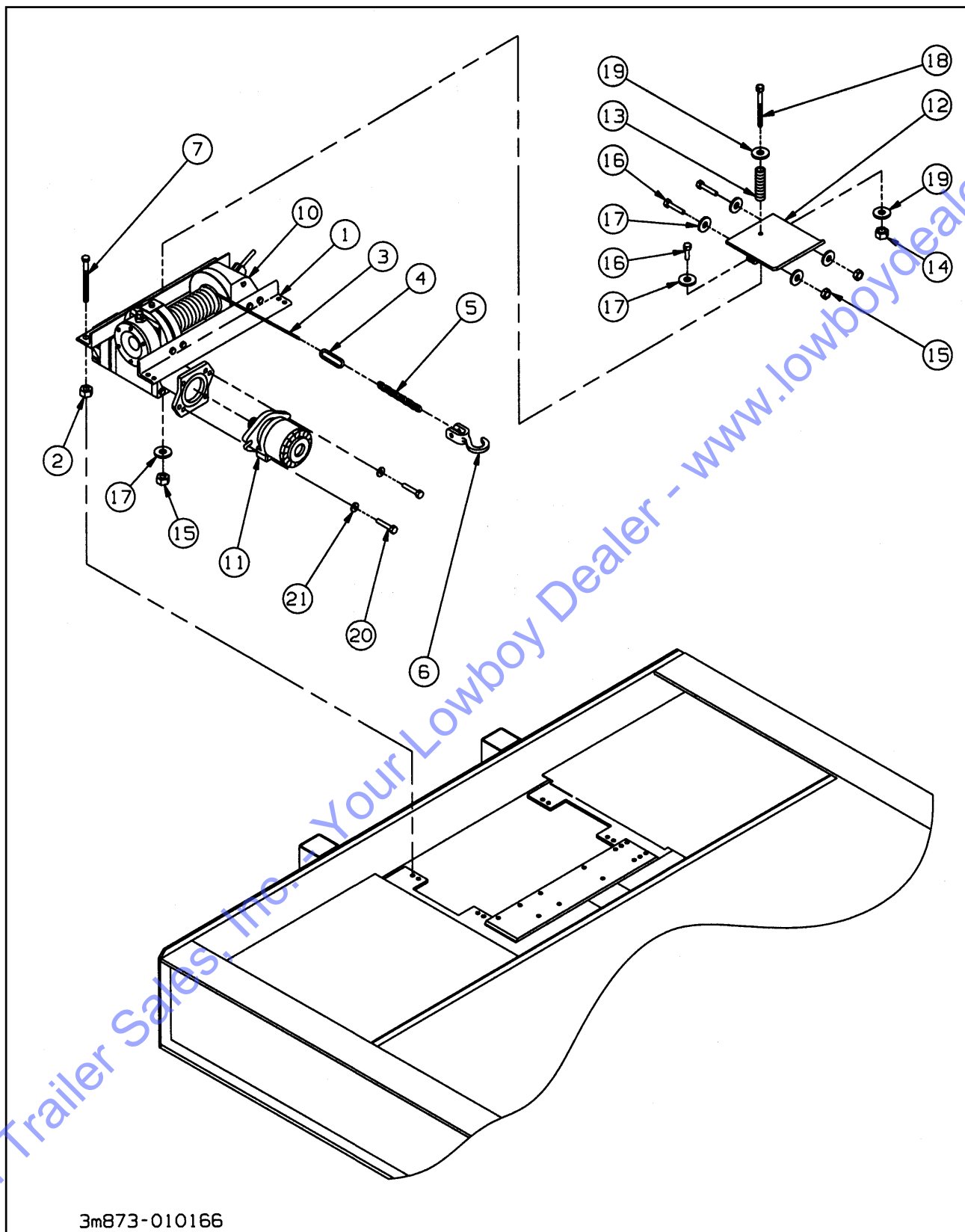


Figure 1-30 Winch Installation

WINCH INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010166-01	WINCH INSTL 12K W/PARKER MOTOR 42' (INCL 1-9)	
	3-873-010166-02	WINCH INSTL 12K W/PARKER MOTOR 48' (INCL 1-9)	
	3-873-010166-03	WINCH INSTL 20K W/PARKER MOTOR 42' (INCL 1-9)	
	3-873-010166-04	WINCH INSTL 20K W/PARKER MOTOR 48' (INCL 1-9)	
	100351	WINCH INSTL 12K SLOPE (INCL 1-10)	
1	3-873-010126-2	WINCH ASSEMBLY 12K PARKER (INCL 10-22)	REF
	3-873-010129-2	WINCH ASSEMBLY 20K PARKER (INCL 10-22)	REF
2	1-512-010005-09	NUT HEX LOCK 1/2-13	8
3	3-155-010017-1	CABLE 1/2 W/LOOP 60"	REF
	3-155-010017-4	CABLE 1/2 W/LOOP 85'	REF
	3-155-010018-1	CABLE 5/8 W/LOOP 60'	REF
	3-155-010018-6	CABLE 5/8 W/LOOP 85'	REF
4	3-174-010038	CHAIN LINK CONNECTING 1/2	1
5	3-174-010039036	CHAIN 1/2 X 36" GRD 7	1
6	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
7	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2	8
8	2-181-010001	HOSE CLAMP (NOT SHOWN)	
9	1-510-010001	NUT FLANGE LOCK 3/8-16	
10	3-873-010122	WINCH WORM GEAR 12K (SEE PAGE 1-53)	1
	3-873-010123	WINCH WORM GEAR 20K (SEE PAGE 1-56)	1
11	3-481-010006	MOTOR HYDRAULIC 12K (SEE PAGE 1-60)	1
	3-481-010007	MOTOR HYDRAULIC 20K (SEE PAGE 1-60)	1
12	3-873-010124	WINCH TENSIONER WLDMT 12K	1
	3-873-010125	WINCH TENSIONER WLDMT 20K (BEFORE 10/97)	
	102186	WINCH TENSIONER WLDMT 20K (AFTER 10/97)	1
13	3-720-010010	SPRING COMP LEVEL WIND	1
14	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	1
15	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	3
16	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 GR5	3
17	1-861-010032-10	WASHER FLAT 3/8 N	6
18	1-654-010055-16	SCREW HEX HEAD CAP 1/2-13 X5 -1/2 GR5 12K	1
	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5 20K	1
19	1-861-010032-15	WASHER FLAT 1/2W	2
20	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13 X 1-3/4 GR5	2
21	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
22	100600	DECAL WARNING WINCH (NOT SHOWN)	1

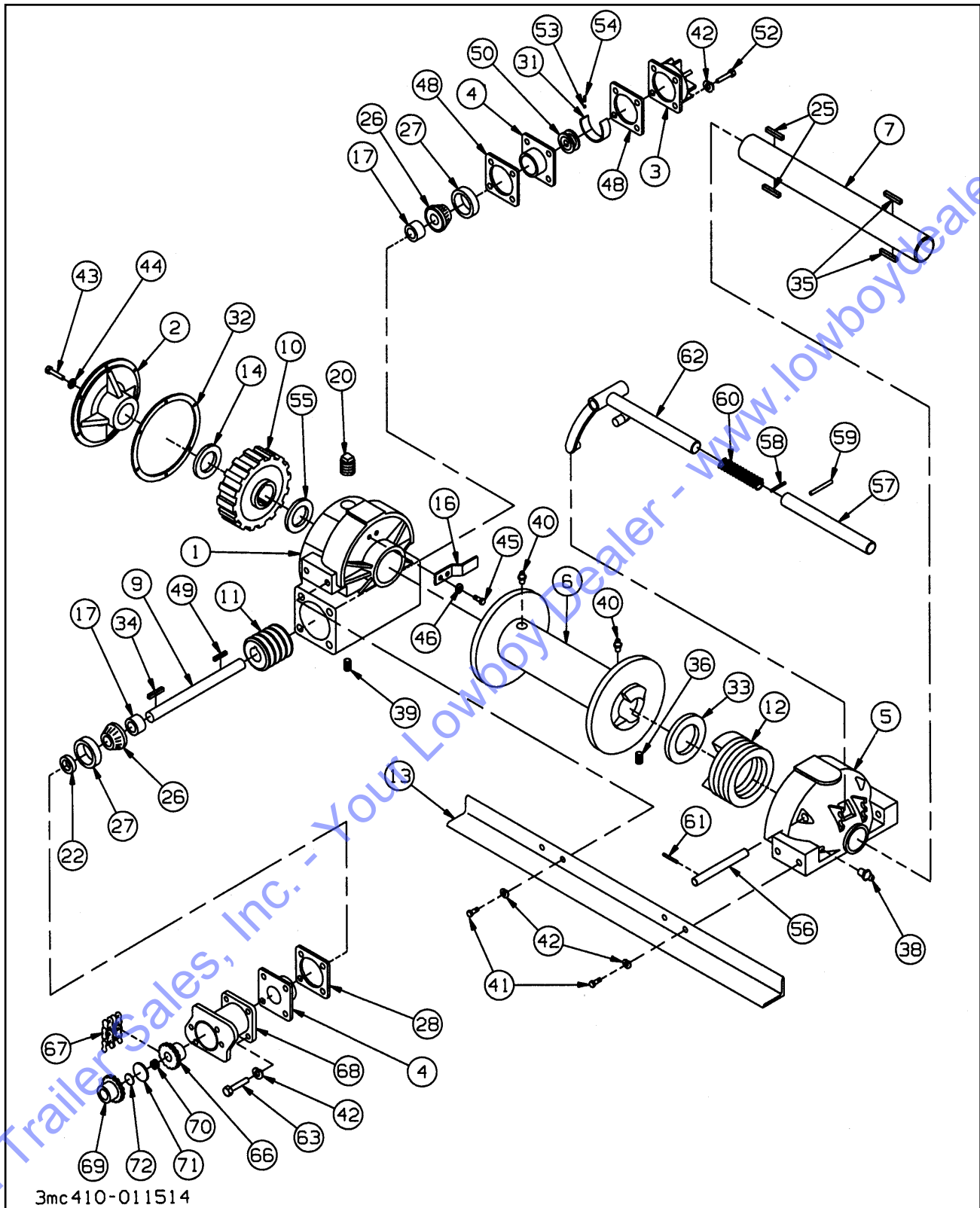


Figure 1-31 12,000# Winch Assembly

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH, 12K	
1	81006	WORM HOUSING ASSEMBLY (INCLUDES ITEM 18)	1
2	81009	COVER ASSEMBLY WORM HOUSING (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 LEFT HAND	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	SET SCREW	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
49	10078	KEY	1
50	18028	DRUM BRAKE	1
51	12075	SCREWSET	1
52	22703	CAPSCREW	4
53	13468	JAM NUT	4
54	18029	BRAKE BAND SPRING	1
55	11240	RETAINER RING	1

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
56	11130	SHIFTER SHAFT	1
57	12817	SHIFTER HANDLE	1
58	18056	ROLLPIN	1
59	13028	ROLL PIN	1
60	18002	SPRING	1
61	11837	ROLLPIN	2
62	13839	SHIFTER FORK	1
63	22704	CAPSCREW	4
65	18044	KEY	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

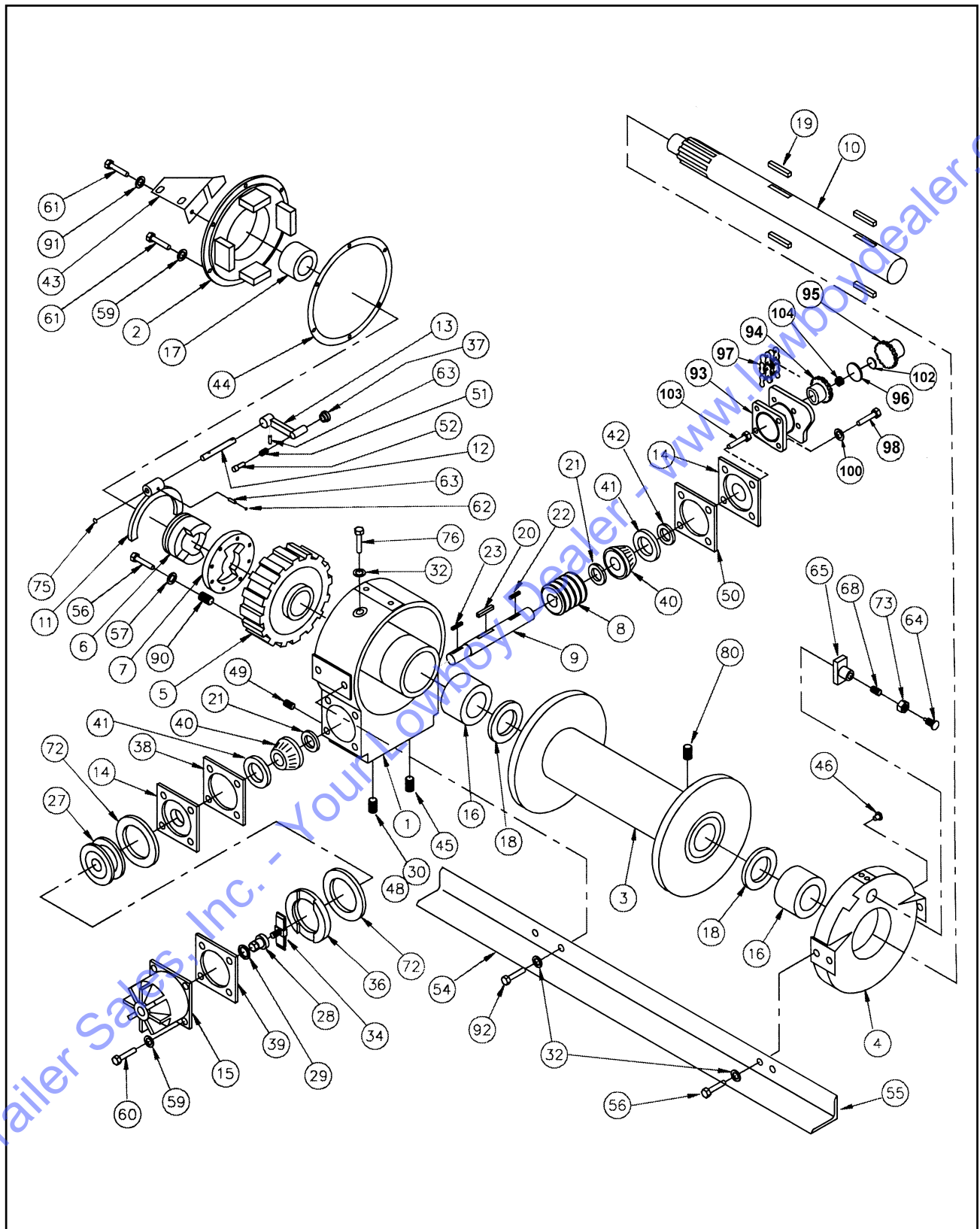


Figure 1-32 20,000# Winch Assembly

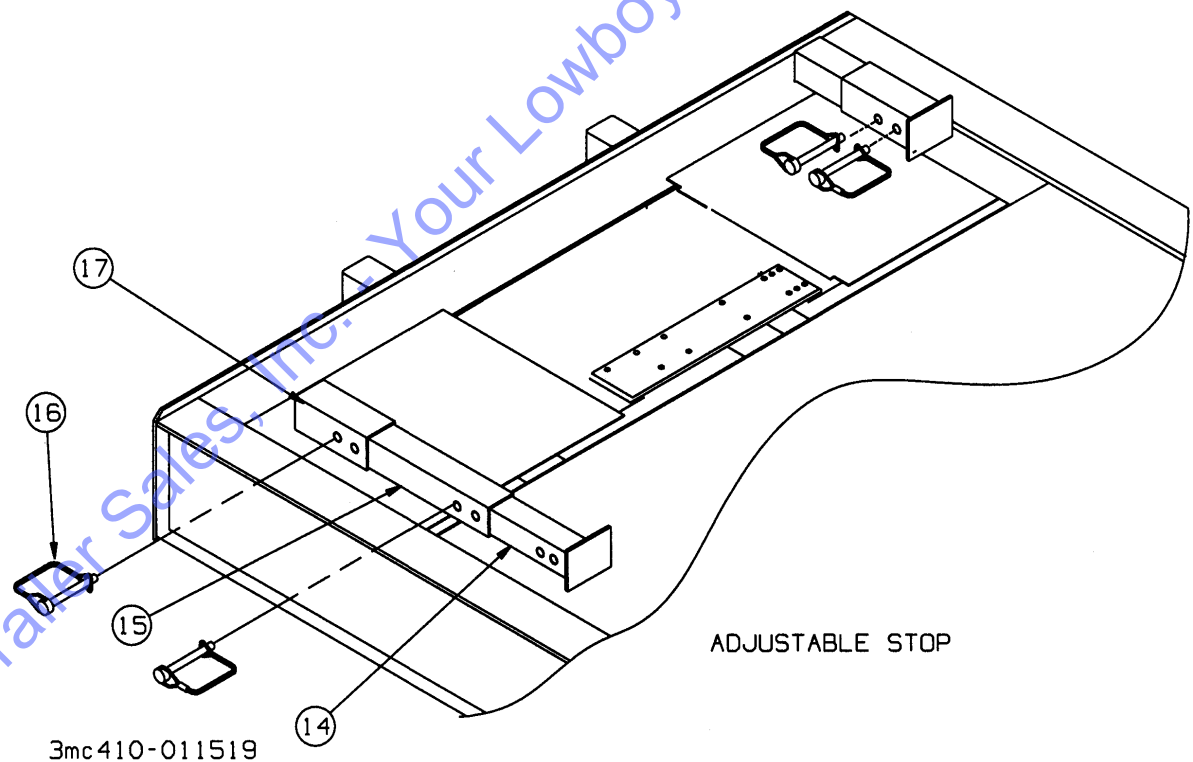
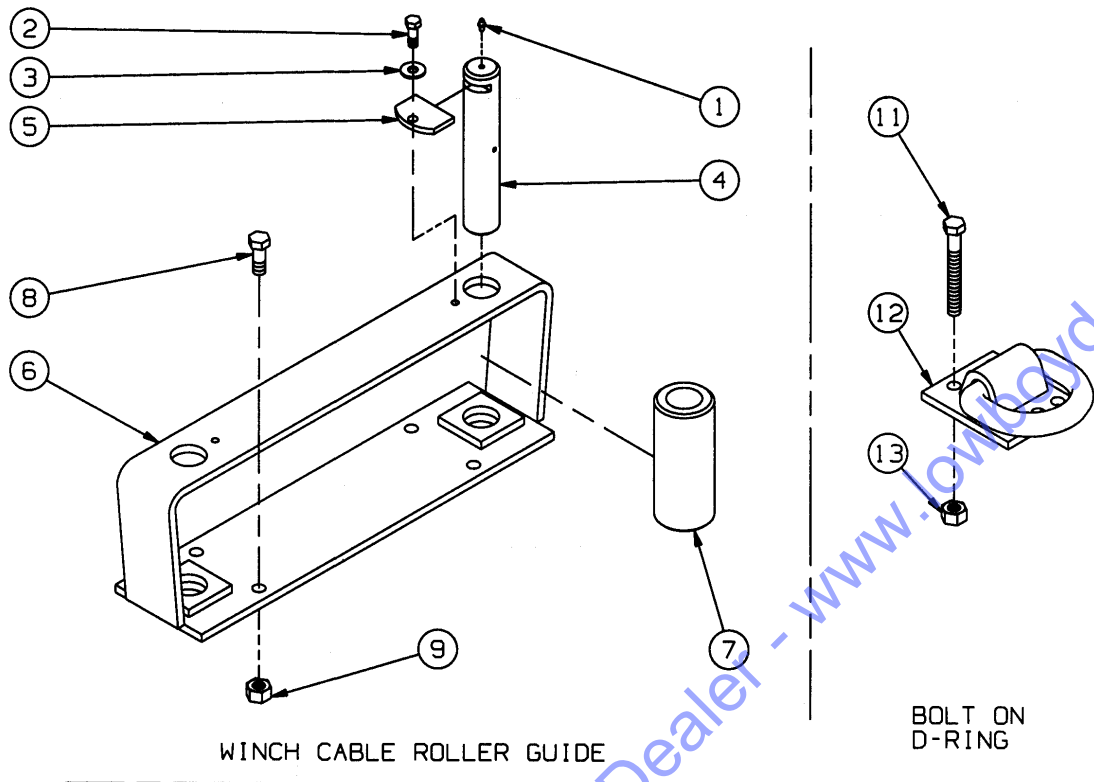
20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH, 20K	
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 SIDING	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
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

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
57	12781	WASHER LOCK	8
58	18056	ROLLPIN	1
59	11025	WASHER LOCK	3
60	22695	CAPSCREW	4
61	21964	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLL PIN	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	1
78*	23310	PLATE WARNING	1
79*	11842	SCREW DRIVE	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER (7/8" EXTERNAL TOOTH)	1
92	22697	CAPSCREW	5
93	23079	ADAPTER - MOTOR	1
94	23081	COUPLING HALF-WINCH	1
95	23142	COUPLING HALF-MOTOR	1
96	23078	SPACER - CONSTANT	1
97	13424	ROLLER CHAIN	1
98	22704	CAPSCREW	4
99	13413	CAPSCREW (NOT SHOWN)	4
100	18003	LOCKWASHER	4
101	11026	LOCKWASHER (NOT SHOWN)	4
102	23183	SPACER - VARIABLE	2
103	22703	CAPSCREW	4
104	23353	SPRING - SPACER	1

NOTE: ITEMS 1 AND 4 INCLUDE BUSHING (ITEM 16); ITEM 2 INCLUDES BUSHING (ITEM 17).



3mc410-011519

WINCH CABLE ROLLER GUIDE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-352-010017-1	GUIDE INSTALLATION WINCH CABLE 12K	
	3-352-010017-2	GUIDE INSTALLATION WINCH CABLE 20K	
1	1-298-010001-1	FITTING GRS 1/4-28 STR SHORT	2
2	1-654-010051-03	SCREW HEX HEAD CAP 3/8-16 X 3/4 GR5	2
3	1-861-010034-11	WASHER SPLIT LOCK 3/8	2
4	3-557-010383	PIN CABLE GUIDE ROLLER	2
5	3-565-010770	PLATE CABLE GUIDE LOCK	2
6	3-120-010295	BRACKET WLDMT 12K ROLLER	1
	3-120-010294	BRACKET WLDMT 20K ROLLER	1
7	3-645-010049	ROLLER WINCH CABLE GUIDE	2
8	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	4
9	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
10	3-352-010015-3	GUIDE ASSY WINCH CABLE 12K (INCL. ITEMS 1-7)	1
	3-352-010015-4	GUIDE ASSY WINCH CABLE 20K (INCL. ITEMS 1-7)	1

BOLT-ON D-RING (OPTIONAL)

	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X1-1/2 GR5	6
12	3-793-010040	TIE DOWN WINCH	1
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GR B	6

STOP INSTALLATION, ADJUSTABLE (OPTIONAL)

	3-741-010085	STOP INSTALLATION ADJUSTABLE 330	
14	3-829-010327	TUBE WELDMENT 3'	2
15	3-829-010329	TUBE WELDMENT 3-1/2"	2
16	346SL	LOCK HITCH PIN	4
17	3-829-010330	TUBE INSTALLATION ADJ STOP	2

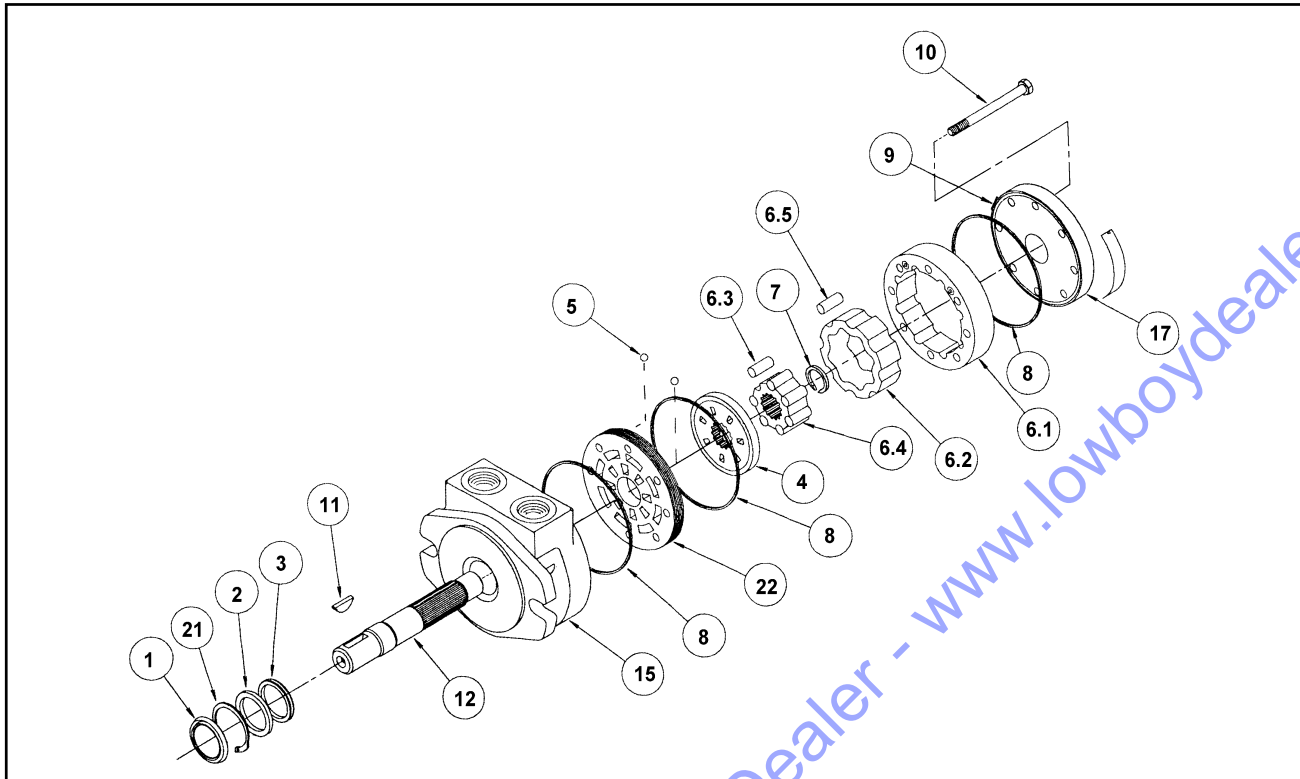


Figure 1-34 Winch Motor Assembly

WINCH MOTOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010007	MOTOR HYD. (FOR 20K WINCH)	1
	3-481-010006	MOTOR HYD (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	IGA, ASSY (FOR 12K WINCH)	1
7	1296	SNAP RING	1
8	1046	SQUARE RING SEAL	3
9	1019-4	PLUG, VENT W/O-RING 7/16-20	1
10	1014-4	BOLTS, HEX 5/16-24 (FOR 20K WINCH)	8
	1114-5	BOLTS, HEX 5/16-24 (FOR 12K WINCH)	8
11	1655	KEY, WOODRUFF	1
12	2265-6	SHAFT, 1.25" 14 TOOTH SPLINE (FOR 20K WINCH)	1
	2109-3	SHAFT, 1" KEYED (FOR 12K WINCH)	1
15	M110AB-4	BODY/BEARING ASSY (FOR 20K WINCH)	1
	PA-2328-2	BODY/BEARING ASSY (FOR 12K WINCH)	1
17	M110C-1	COVER/BEARING ASSY	1
21	2180	SNAP RING, SHAFT	1
22	1865	COMMUNTATOR PLATE	1
23	2263	SEAL KIT, BODY	1
	2480	SEAL KIT, BODY, VITON	1

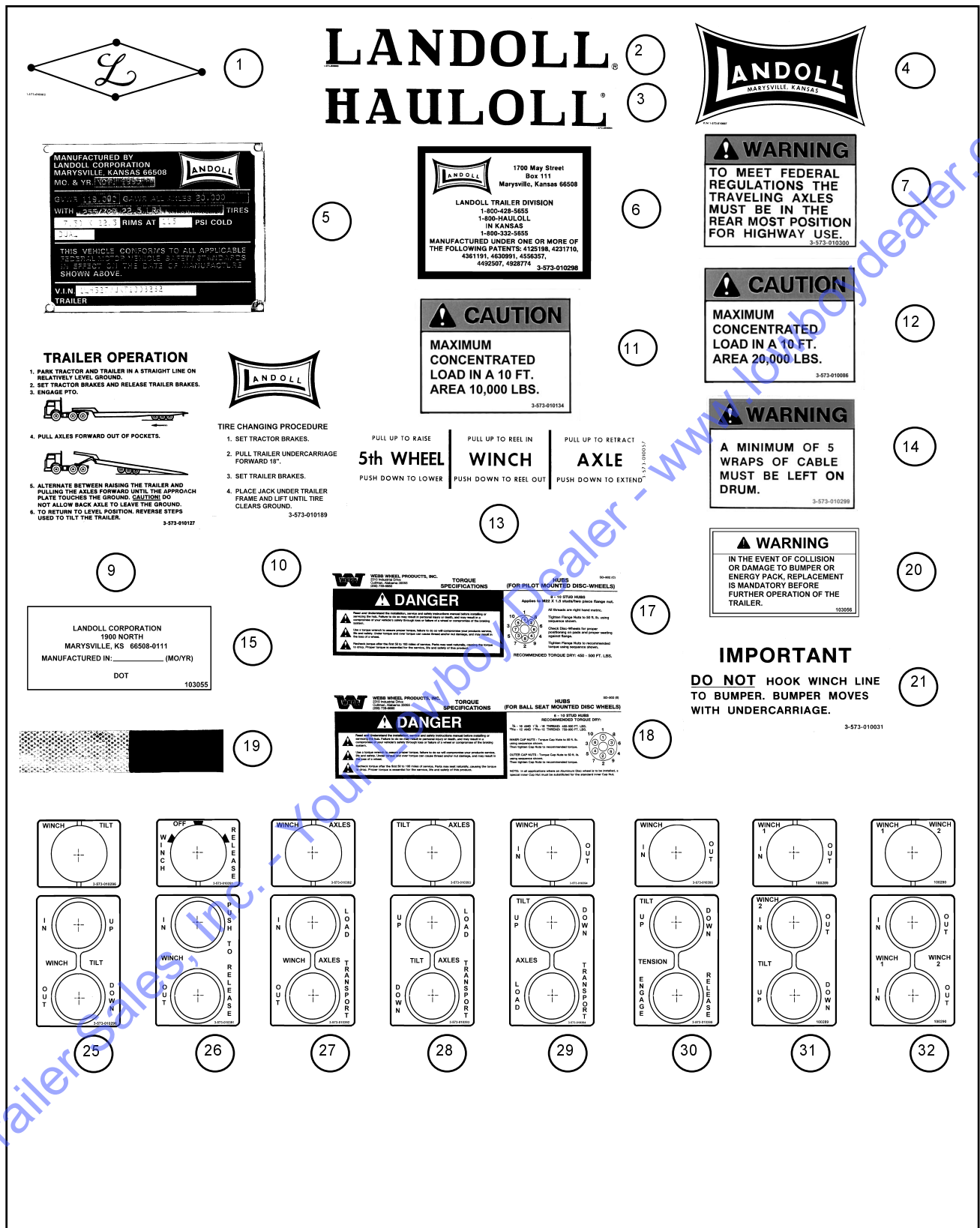


Figure 1-35 Decals

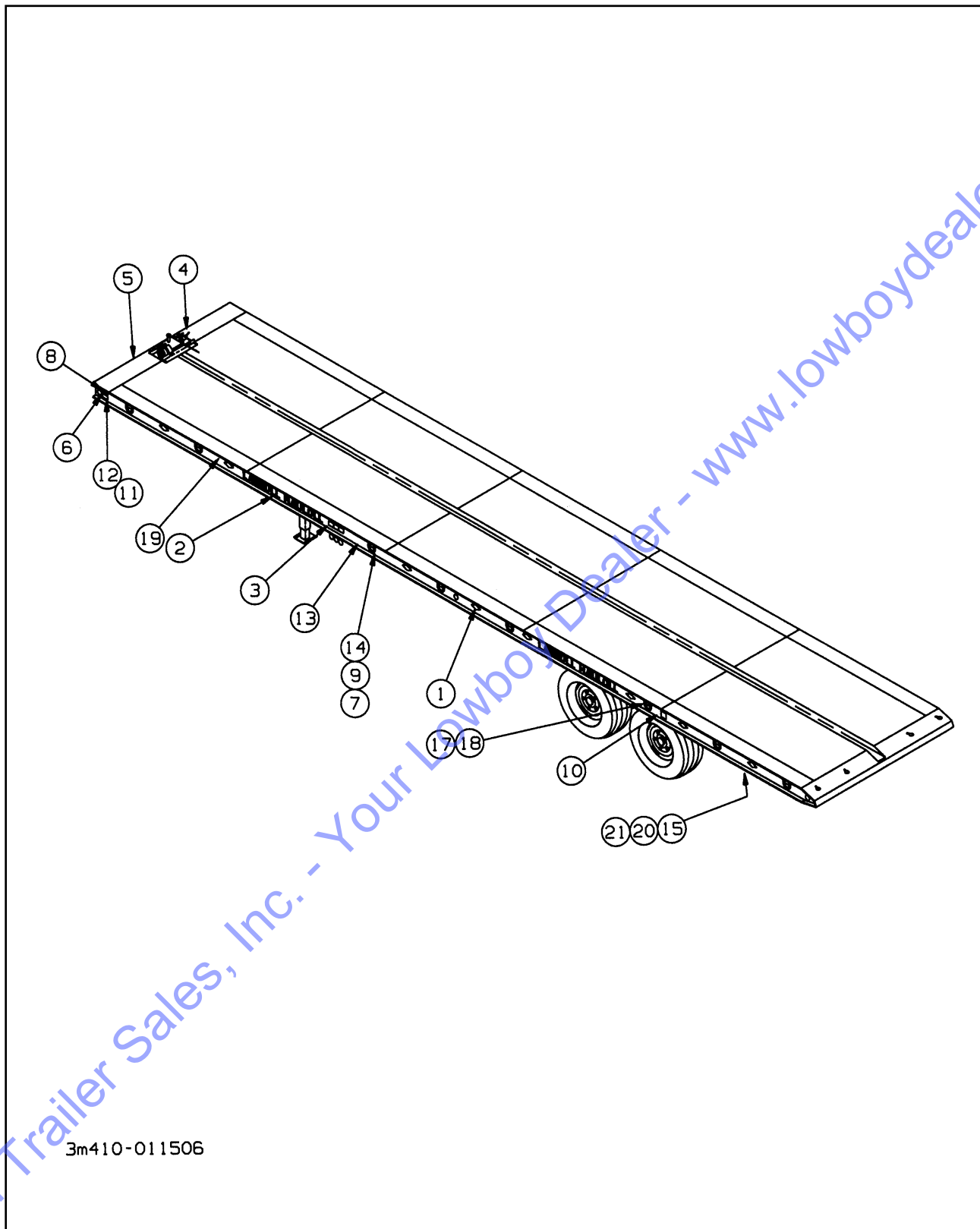
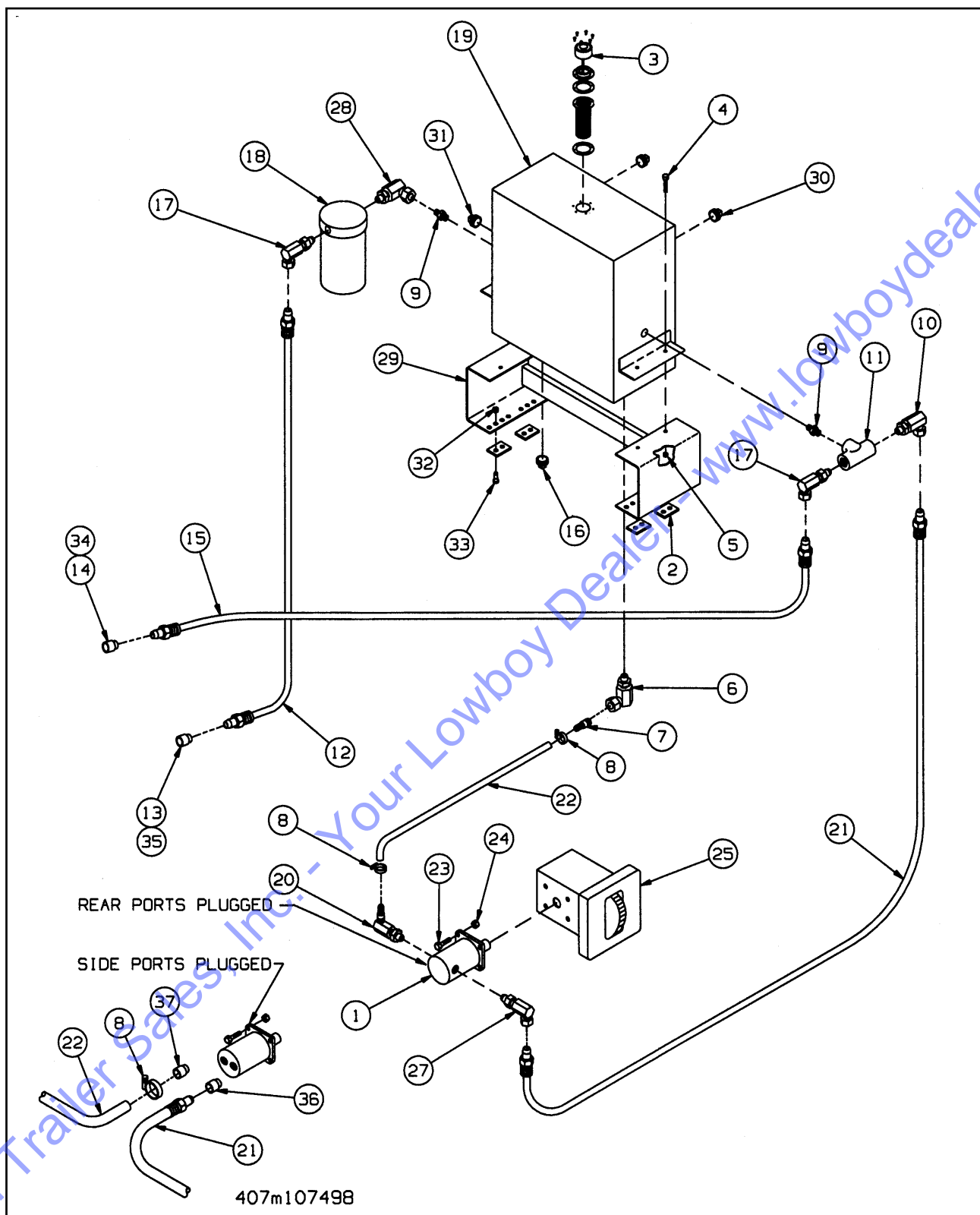


Figure 1-36 Decal Placement

DECAL PLACEMENT

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-573-010479	DECAL L WHITE	8
	1-573-010475	DECAL L BLACK	8
2	1-573-010481	DECAL LANDOLL WHITE	4
	1-573-010477	DECAL LANDOLL BLACK	4
3	1-573-010482	DECAL HAULOLL WHITE	4
	1-573-010478	DECAL HAULOLL BLACK	4
4	1-573-010017	DECAL LANDOLL WHITE	4
	1-573-010007	DECAL LANDOLL BLACK	4
5	3-573-010020	PLATE IDENTIFICATION	1
6	3-573-010298	DECAL PATENT TRAILERS AND TOLL FREE NO.	2
7	3-573-010300	DECAL CAUTION	1
9	3-573-010127	DECAL OPERATION	1
10	3-573-010189	DECAL TIRE CHANGING PROCEDURE	2
11	3-573-010134	DECAL CONC LOAD (SINGLE AXLE)	2
12	3-573-010086	DECAL CONC LOAD (TANDEM AXLE)	2
13	3-573-010057	DECAL INSTRUCTION	1
14	3-573-010299	DECAL WARNING WINCH	1
15	103055	DECAL ENERGY BUMPER CERT.	1
17	3-573-010210	DECAL TORQUE SPEC 8-10 STUD HUB	1
18	3-573-010211	DECAL TORQUE SPEC 6-10 STUD HUB	1
19	3-573-010377	DECAL REFLEXITE TAPE RED/WHITE	48'
20	103056	DECAL ENERGY BUMPER WARNING	1
21	3-573-010031	DECAL BUMPER	1
22	10036	FASTENER SERIAL NUMBER (NOT SHOWN)	4
23	3-573-010378010	DECAL 2 X10 REFLEXITE WHITE (NOT SHOWN)	2
24	3-573-0120378012	DECAL 2 X 12 RELEXITE WHITE (NOT SHOWN)	2
25	3-573-010296	DECAL, WINCH TILT	REF
26	3-573-010391	DECAL, REMOTE WINCH TILT	REF
27	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	REF
28	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	REF
29	3-573-010394	DECAL, TILT/WINCH/UNDERCARRIAGE	REF
30	3-573-010395	DECAL, TILT/WINCH/UNDERCARRIAGE	REF
31	100289	DECAL, WINCH/WINCH/TILT	REF
32	100290	DECAL, REMOTE WINCH WINCH	REF
33	113853	DECAL, 330 BLACK DC 2-1/2"	2
34	113853	DECAL, 330 WHITE DC 2-1/2"	2



HYDRAULIC WET KIT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	3-591-010001	HYDRAULIC GEAR PUMP (SEE PAGE)	1
2	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
3	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
4	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16X1-1/4 GR5	4
5	1-512-010005-05	NUT HEX LOCK GRB	4
6	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
7	3-561-010001	HOSE BARB 1-1/4	1
8	6828	IDEAL HOSE CLAMP	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	1
13	S21F-6	COUPLER, 3/4 MALE HALF (BEFORE 7/98)	1
	105479	COUPLER, FLAT FACE MALE (AFTER 7/98)	1
14	S25F-6	COUPLER 3/4 PRESSURE FRONT (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
15	106759	HOSE ASSEMBLY 1/2 X 164	1
16	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
17	2024-12-12S	ADAPTER 90	2
18	1-295-010001	FILTER, RETURN	1
19	3-786-010043	TANK, HYDRAULIC	1
20	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
21	1-397-010301100	HOSE ASSEMBLY	1
22	3-399-010001	HOSE 1-1/4 X 4 - 0" SUCTION	8'
23	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
24	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
25	PTO	POWER TAKE OFF	*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 1/2-13 X 1-3/4 GR5	4
34	105482	COUPLER, DUST CAP FEMALE	1
35	105481	COUPLER, DUST CAP MALE	1
36	12-16 070120	ADAPTER	1
37	107513	ADAPTER	1

* FIRST QUANTITY LISTED IS FOR P/N'S 107498 AND 107499 HYDRAULIC WET KIT W/ PTO; SECOND QUANTITY LISTED IS FOR P/N 107500 HYDRAULIC WET KIT W/O PTO.

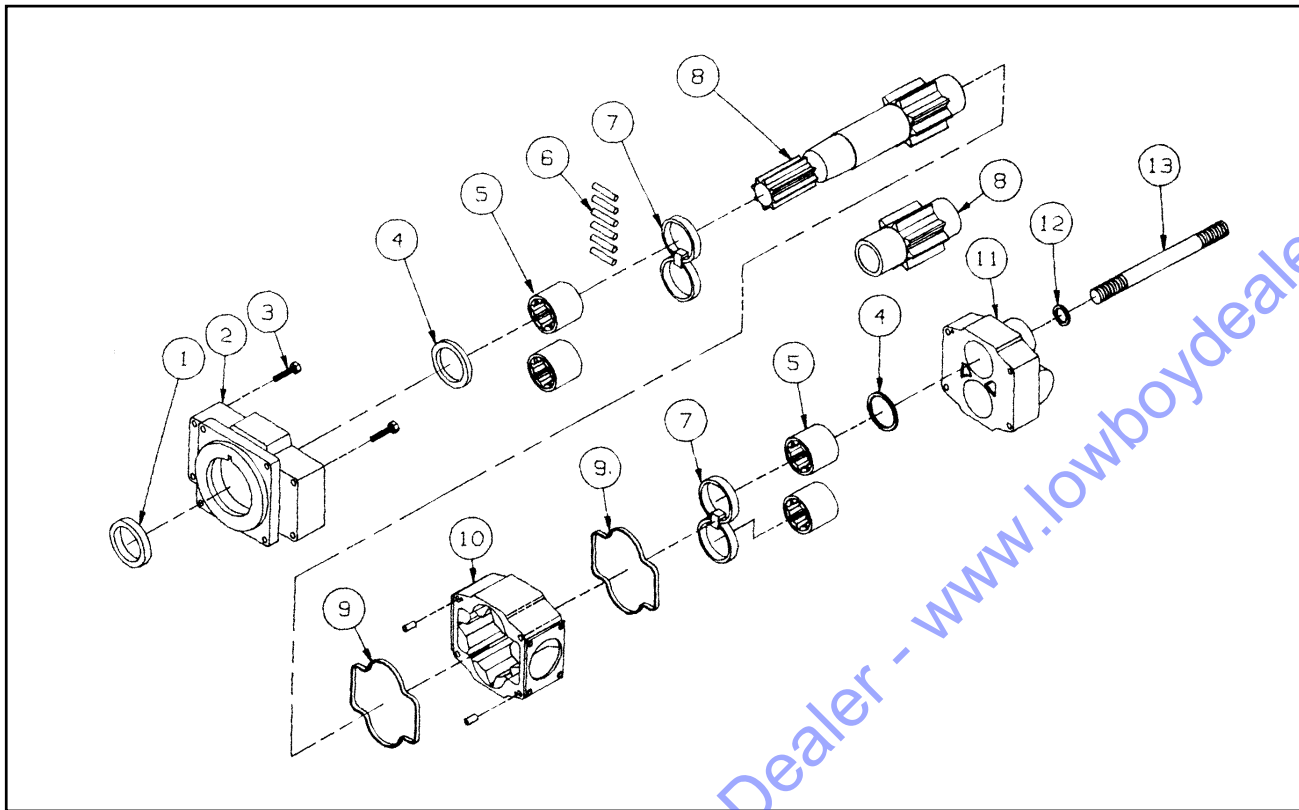


Figure 1-38 Hydraulic Pump, Wet Kit (Optional)

HYDRAULIC PUMP, WET KIT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-591-010001	HYDRAULIC PUMP ASSEMBLY	1
1	X73-37-16	SEAL SHAFT	1
2	EB 1685-3	COVER SHAFT END	1
3	M 1391-K	CHECK	2
4	LB 1669-1	SEAL RING	2
5	Y 1032	BEARING ROLLER	4
6	BA 3026-2	STRIP POCKET SEAL	1
7	AA 1058	PLATE THRUST	2
8	BD 1135M-3-17	GEAR SET SHAFT	1
9	UB 3006-242	GASKET HOUSING	2
10	RA 1688-17-64	HOUSING	1
11	XA 1603	PORT END	1
12	X 144-3	WASHER	1
13	X2-25	STUD	1
14	391-1802-119	SEAL KIT	

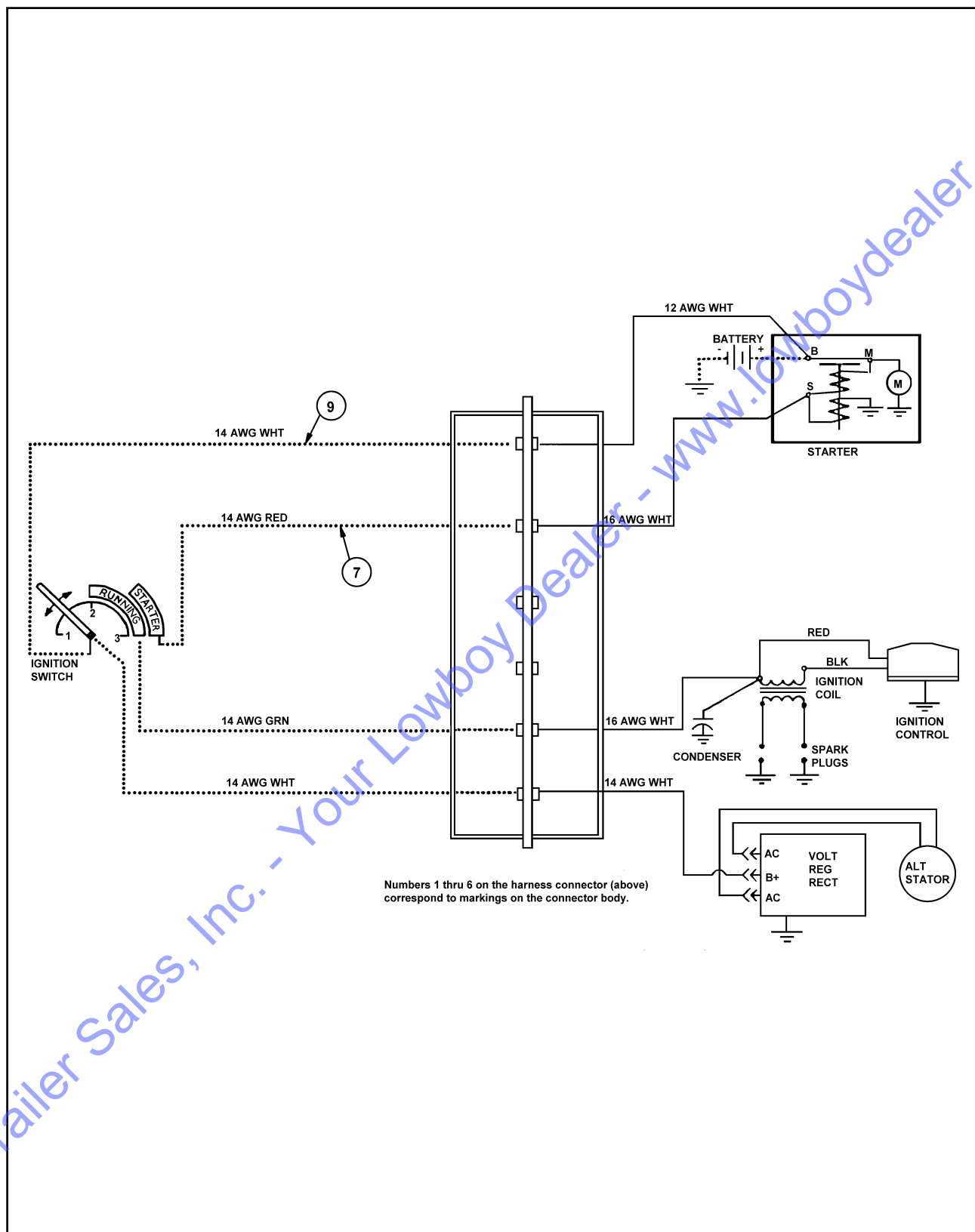


Figure 1-39 Engine Harness Diagram

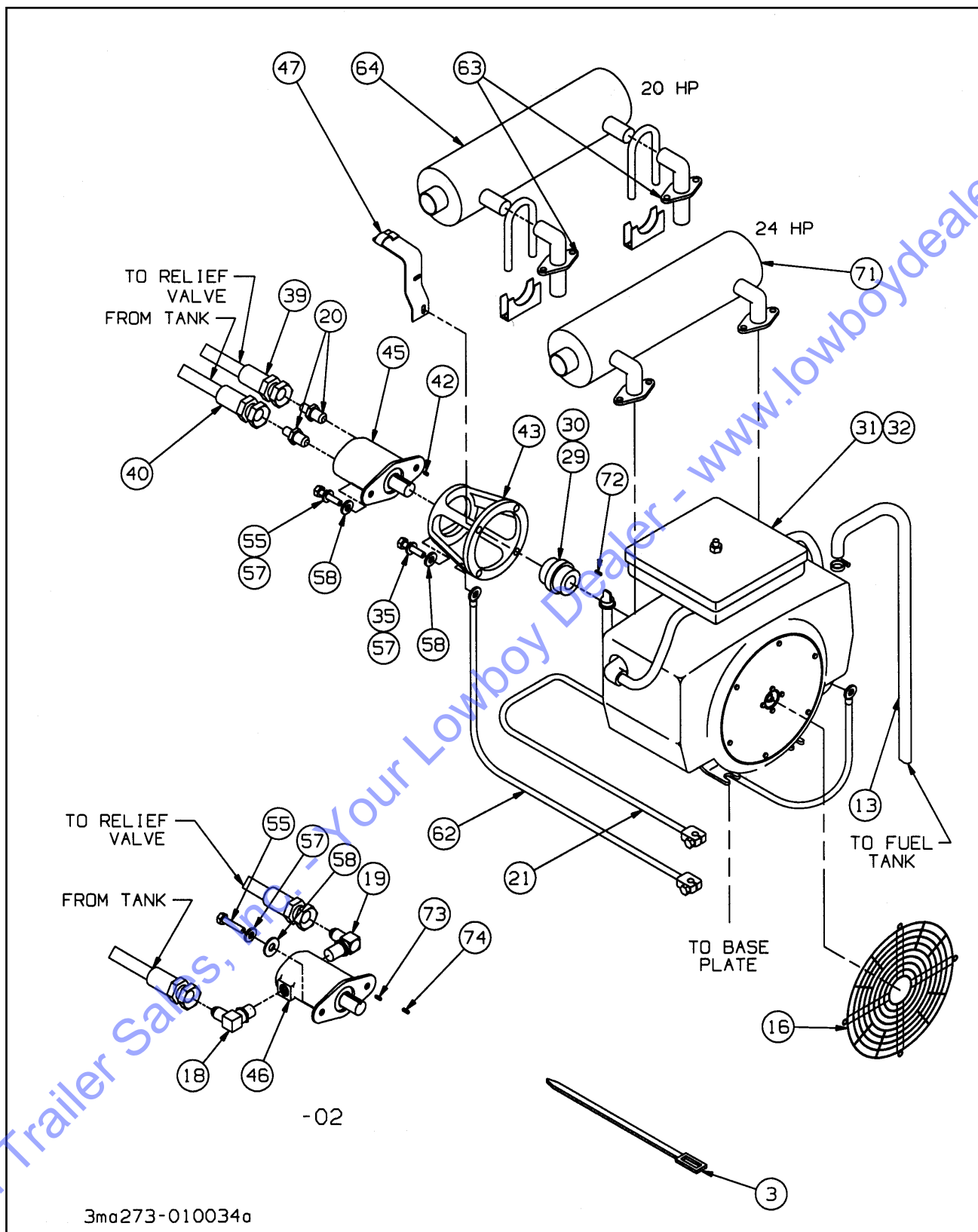


Figure 1-40 Auxiliary Engine Package (1 of 2)

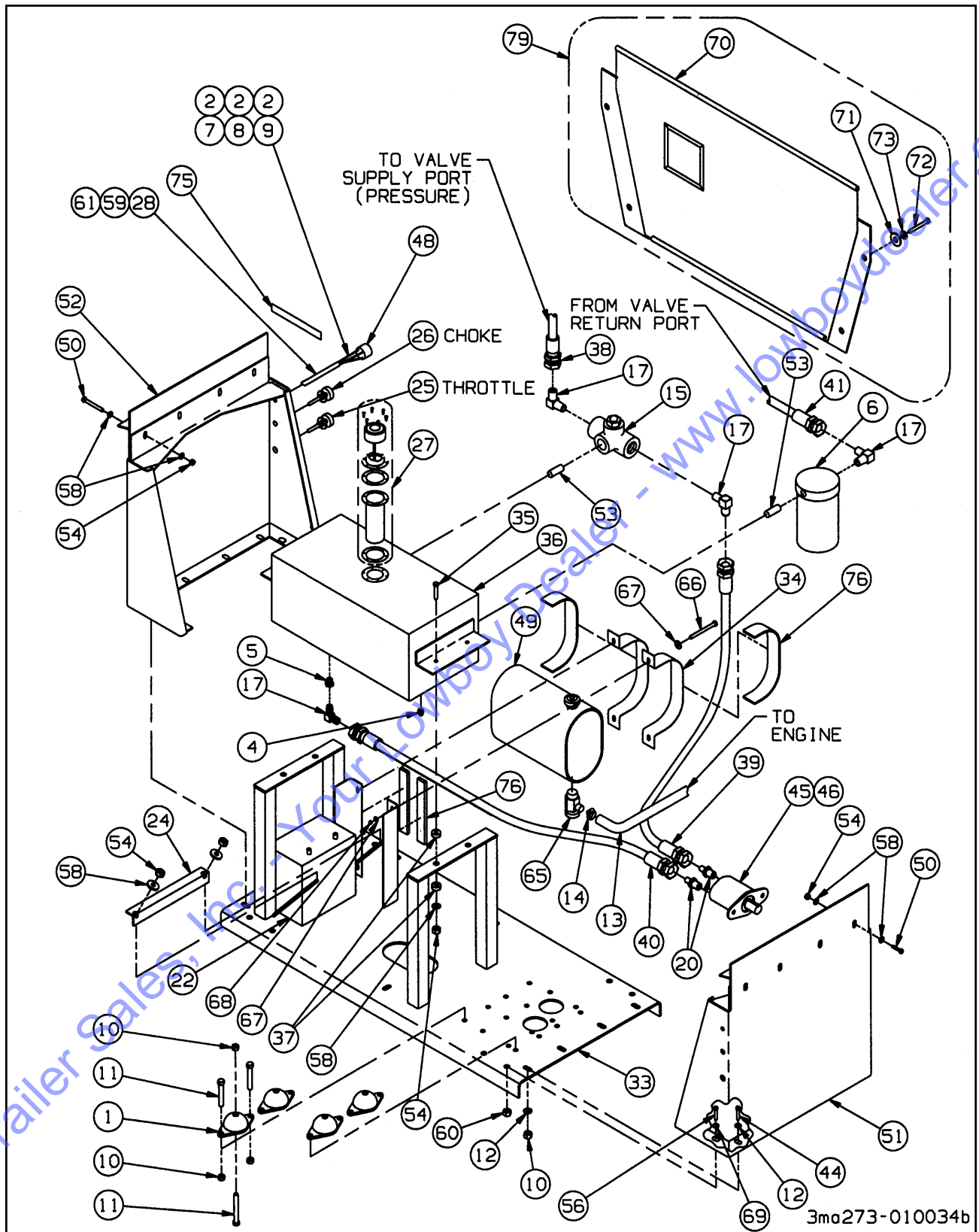


Figure 1-41 Auxiliary Engine Package (2 of 2)

AUXILIARY ENGINE PACKAGE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010034-01	ENGINE DRIVE UNDERSLUNG 330 20HP	
	3-273-010034-02	ENGINE DRIVE UNDERSLUNG 330 24HP	
1	CA-1595	MACHINE MOUNT 40 DROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	A/R
4	1-560-010002-07	PLUG PIPE	1
5	3-150-010166-16	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	1-879-010004072	WIRE RED 14AWG 6FT	1
8	1-879-010006072	WIRE GREEN 14AWG 6FT	1
9	1-879-010010072	WIRE WHITE 14AWG 6FT	1
10	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	24
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	24
13	1-316-010013-1	HOSE PRESS FUEL 1/4	1
14	105-0105	CLAMP HOSE IDEAL 6203	2
15	125130	RD12D HYDRAULIC BY PASS SRDD	1
16	134-4560	GUARD ONAN	1
17	2024-12-12S	ADAPTER 90	4
18	2062-16-12S	ADAPTER 90	*0,1
19	2062-12-12S	ADAPTER 90	*0,1
20	2021-16-12S	ADAPTER PIPE TO TUBE	*2,0
21	239-8113-40	CABLE ASSEMBLY BATTERY (NEG) 2AWG	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	3-201-010002072	CONDUIT PLASTIC FLEX	1
29	3-220-010003	FLEXIBLE COUPLING	*1,0
30	3-220-010002	FLEXIBLE COUPLING	*0,1
31	3-273-010006	ENGINE 20HP ONAN	*1,0
32	3-273-010013	ENGINE 24HP ONAN	*0,1
33	3-482-010495	MOUNT WELDMENT 330 POWER CTR	1
34	3-482-010342	MOUNT BOLT ON STRAP FUEL TANK	2
	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	1-654-010051-08	SCREW HEX CAP 3/8-16 X 1-3/4 GR5	4
36	3-786-010005	HYDRAULIC TANK 5TH WHEEL	1
37	805-2	BUSHING STEP	8
38	1-397-010304056	HOSE ASSEMBLY 3/4	1
39	1-397-010304032	HOSE ASSEMBLY 3/4	1
40	1-397-010304022	HOSE ASSEMBLY 3/4	1
41	1-397-010304064	HOSE ASSEMBLY 3/4	1
42	3-427-010003	KEY WOODRUFF 317/350	*1,0
43	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
44	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13X1-1/4 GR5	12
45	3-591-010005	PUMP HYDRAULIC GEAR 20HP	*1,0
46	3-591-010003	PUMP HYDRAULIC GEAR 24HP	*0,1
47	3-482-010360	MOUNT CHOKE CABLE WLDMT	1

AUXILIARY ENGINE PACKAGE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
48	3-765-010005	IGNITION SWITCH	1
49	3-783-010006	TANK FUEL	1
	3-783-010013P	TANK FUEL 3 GAL	1
50	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
51	3-482-010566	MOUNT WELDMENT FRONT	1
52	3-482-010565	MOUNT WELDMENT REAR	1
53	3/4NIPPLE	NIPPLE ALL THREAD 3/4	2
54	1-510-010001	NUT FLANGE LOCK 3/8-16	14
55	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	6
56	1-654-010059-13	SCREW HEX HEAD CAP 5/8-11 X 4 GR5	4
57	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
58	1-861-010032-11	WASHER FLAT 3/8	30
59	3-272-010021	ELECTRICAL BUTT SPLICE	2
60	1-512-010005-131	NUT HEX LOCK 5/8-11 GRB	4
61	3-272-010022	ELECTRICAL BUTT SPLICE	1
62	514-9045-40	CABLE ASSEMBLY BATTERY (POS)	1
63	541-0203	EXHAUST ADAPTER KIT	*1,0
64	541-0379	MUFFLER 20HP ONAN	*1,0
65	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	1-654-010049-09	SCREW HEX HEAD CAP 5/16-18 X 2 GR5	4
67	1-861-010032-09	WASHER FLAT 5/16	8
68	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	4
69	1-861-010032-19	WASHER FLAT 5/8	4
70	3-348-010045	GUARD WELDMENT 330 U/S SIDE PANEL	2
71	541-0316	MUFFLER 24 HP	*0,1
72	110-4338	SQUARE KEY 1/4 X 2	*1,0
73	110-4334	KEY 3/16 X 1-1/4	*0,1
74	110-4348	KEY 3/8 X 2	*0,1
76	10030	SEL BAR STOCK - NEOPRENE SPONGE	60"
79	B3-274-007	ENG GUARD 330 U/S OPTION (INCLUDES ITEMS 70, 71, 72, AND 73)	1

* THE FIRST QUANTITY LISTED IS FOR P/N 3-273-010034-01; SECOND QUANTITY LISTED IS FOR P/N 3-273-010034-02.

NOTE: SEE FIGURE 1-39 FOR ENGINE HARNESS DIAGRAM.

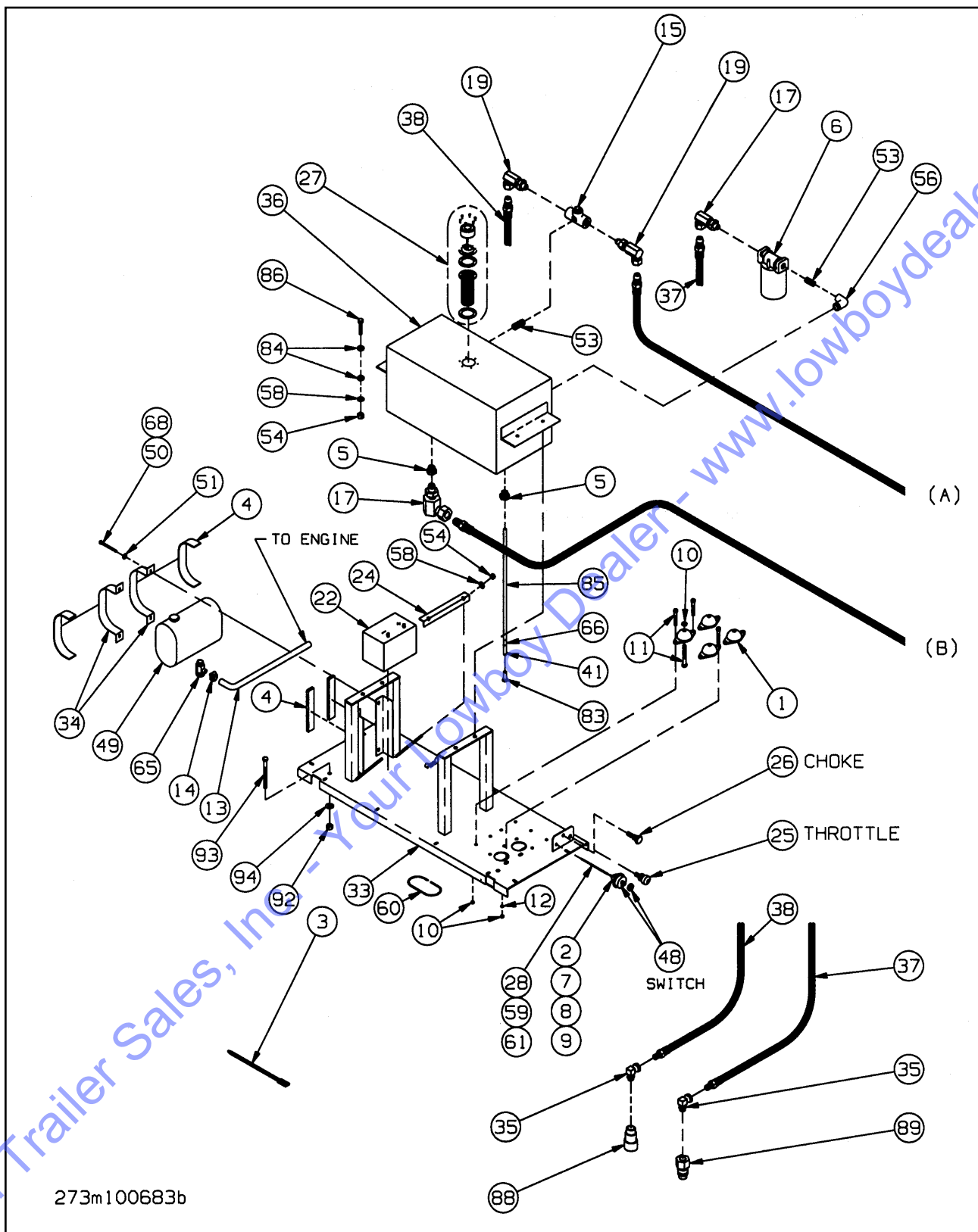


Figure 1-42 Auxiliary Engine Package Upperdeck (1 of 2)

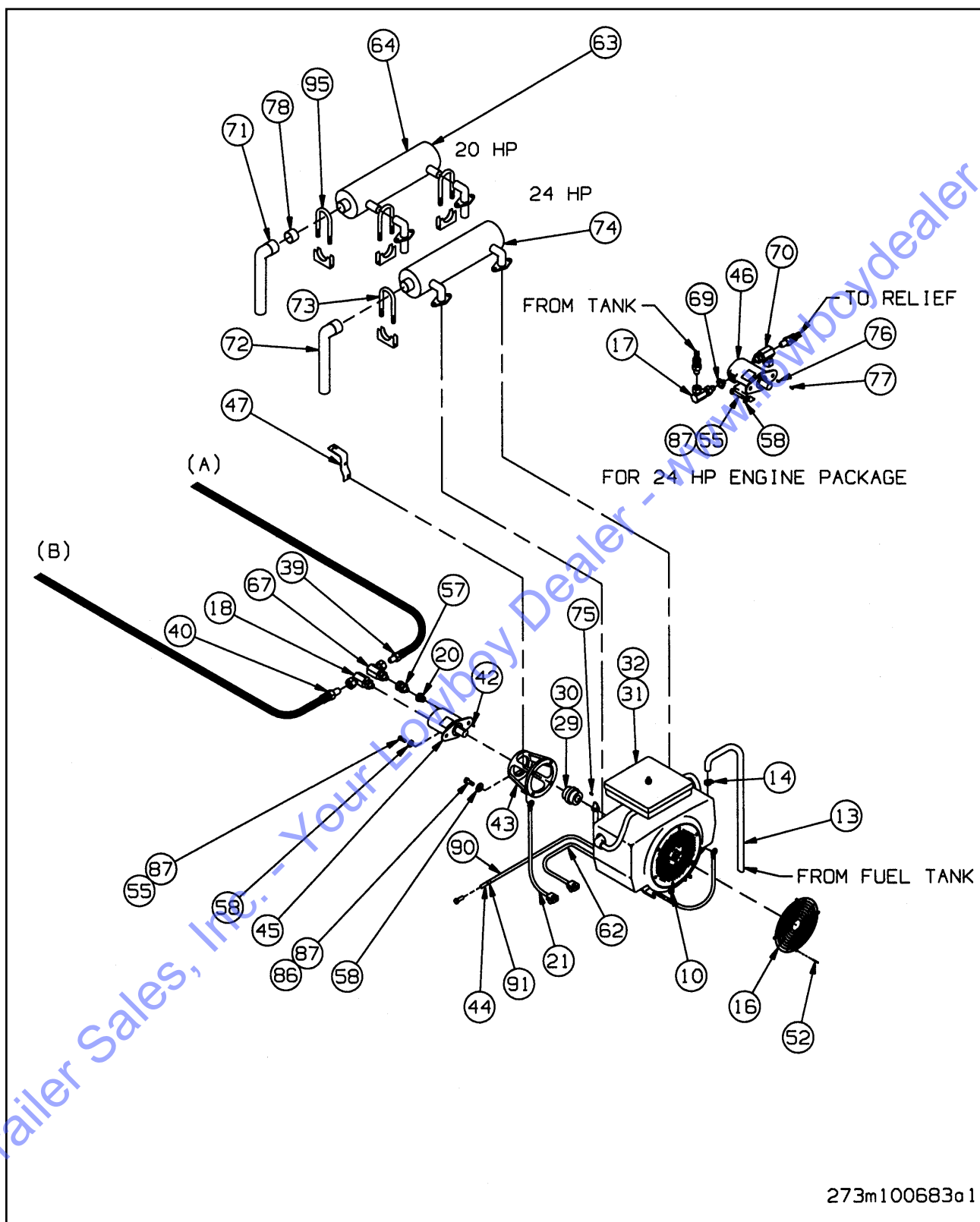


Figure 1-43 Auxiliary Engine Package Upperdeck (2 of 2)

AUXILIARY ENGINE PACKAGE UPPER DECK (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	100683	ENGINE PACKAGE UPPERDECK 20HP	
	100684	ENGINE PACKAGE UPPERDECK 24HP	
1	CA-1595	MACHINE MOUNT 40 DROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	6
4	10030	SEAL BAR - NEOPRENE SPONGE	60'
5	3-150-010166-16	BLACK PIPE BUSHING 1-1/4 X 3/4	2
6	1-295-010001	FILTER RETURN LINE	1
7	1-879-010004	WIRE RED 14AWG	6'
8	1-879-010006	WIRE GREEN 14AWG	6'
9	1-879-010010	WIRE WHITE 14AWG	6'
10	1-512-010005-09	NUT HEX LOCK CAD W/WAX 1/2-13 GRB	12
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2	12
12	1-861-010032-15	WASHER FLAT 1/2	4
13	104-0505-060	HOSE PRESS FUEL 1/4	1
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	ADAPTER 90	*2,3
18	2047-12-16S	ADAPTER 90	*1,0
19	1-007-010013	ADAPTER EXT/ INT PIPE	1
20	2081-16-8S	REDUCER EXT/ INT PIPE	*1,0
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	*1,0
30	3-220-010002	FLEXIBLE COUPLING	*0,1
31	3-273-010006	ENGINE 20HP ONAN	*1,0
32	3-273-010013	ENGINE 24HP ONAN	*0,1
33	100678	MOUNT WELDMENT 330 POWER CTR	1
34	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	106285	ADAPTER 90 3/4MPT X 1/2FPT	2
36	3-786-010005	HYDRAULIC TANK 5TH WHEEL	1
37	1-397-010313066	HOSE ASSEMBLY 3/4	1
38	106345	HOSE ASSEMBLY 1/2	1
39	3-397-010152	HOSE ASSEMBLY 1/2	1
40	3-397-010261	HOSE ASSEMBLY 1/2	1
41	3/4COUPL	BLACK PIPE COUPLING	1
42	3-427-010003	KEY WOODRUFF 317/350	*1,0
43	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
44	3/8COUPL	BLACK PIPE COUPLING	1
45	3-591-010005	PUMP HYDRAULIC GEAR	*1,0
46	3-591-010003	PUMP HYDRAULIC GEAR	*0,1
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
50	1-654-010049-07	SCREW HEX CAP 5/16-18 X 1-1/2 GR5	4

AUXILIARY ENGINE PACKAGE UPPER DECK (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
51	1-861-010032-09	WASHER FLAT 5/16	8
52	3/16 X 3/4CS SELF	SCREW HEX HEAD CAP SELF DRILL	4
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 CAP 3/8-16 X 1-1/4 GR5	2
56	1-271-010005-05	ELBOW BLACK PIPE 90	1
57	2045-8-8S	INT PIPE SWIVEL EXT P 1/2-14	*1,0
58	1-861-010032-11	WASHER FLAT 3/8	14
59	3-272-010021	ELECTRICAL BUTT SPLICE	2
60	1-822-010001018	TRIM 3/8 X 18	1
61	3-272-010022	ELECTRICAL BUTT SPLICE	1
62	514-9045-60	CABLE BATTERY (POS) AUX ENGINE	1
63	541-0203	EXHAUST ADAPTER KIT	*1,0
64	541-0379	MUFFLER 20HP ONAN	*1,0
65	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	100682	TAG HOSE HYD. OIL DRAIN	1
67	2047-8-8S	ADAPTER	*1,0
68	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	4
69	2216-12-16S	ADAPTER 3/4-14 PIPE TO 1-5/16 O-RING ADAPTER	*1,0
70	1-007-010024	SWIVEL 90 1/2FPT X 3/4MPT	*0,1
71	3-276-010693	EXTENSION EXHAUST 20HP SLOPE	*1,0
72	3-276-010691	EXTENSION EXHAUST 24HP SLOPE	*0,1
73	3-181-010038	CLAMP MUFFLER	*0,1
74	541-0316	MUFFLER 24HP	*0,1
75	110-4338	SQUARE KEY 1/4 X 2	*REF,0
76	110-4334	KEY 3/16 X 1-1/4	*0,REF
77	110-4348	KEY 3/8 X 2	*0,REF
78	RRT308X.75	TUBE ROUND 1-3/8 X 3/4	1
83	1-560-010002-05	PLUG PIPE 3/4	1
84	805-2	BUSHING STEP	8
85	1-397-010313034	HOSE ASSEMBLY 3/4	1
86	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4	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
90	1-397-010374	HOSE ASSEMBLY 38"	1
91	100681	TAG HOSE ENGINE OIL DRAIN	1
92	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
93	1-654-010059-13	HEX CAP SCREW 5/8-11 X 4 GR5	4
94	1-861-010032-19	WASHER FLAT 5/8	8
95	3-182-010028	CLAMP MUFFLER	*1,0

* THE FIRST QUANTITY LISTED IS FOR P/N 100683 (20HP ENGINE); THE SECOND QUANTITY LISTED IS FOR P/N 100684 (24HP ENGINE).

NOTE: SEE FIGURE 1-39 FOR ENGINE HARNESS DIAGRAM.

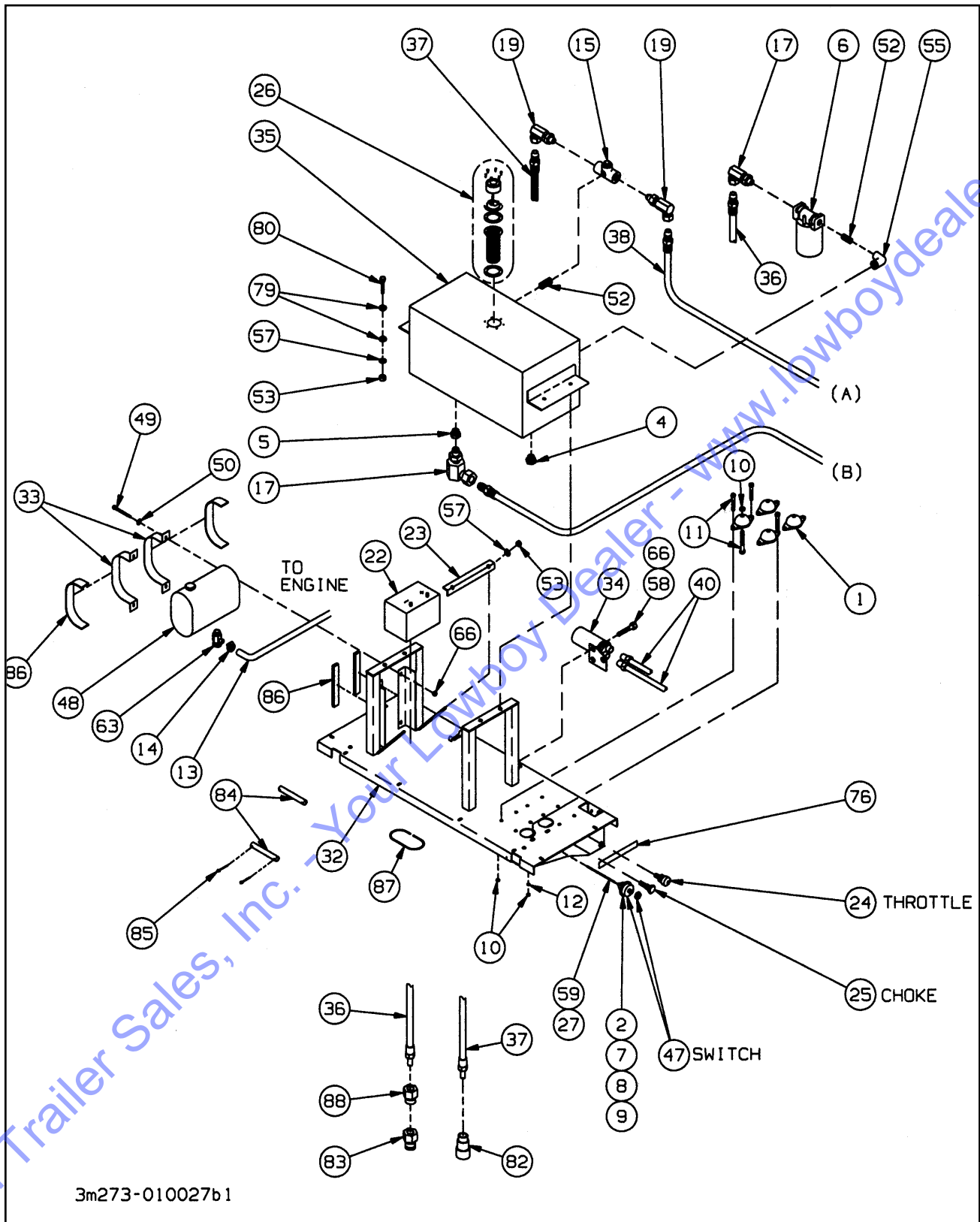


Figure 1-44 Engine Package Front Mount (1 of 2)

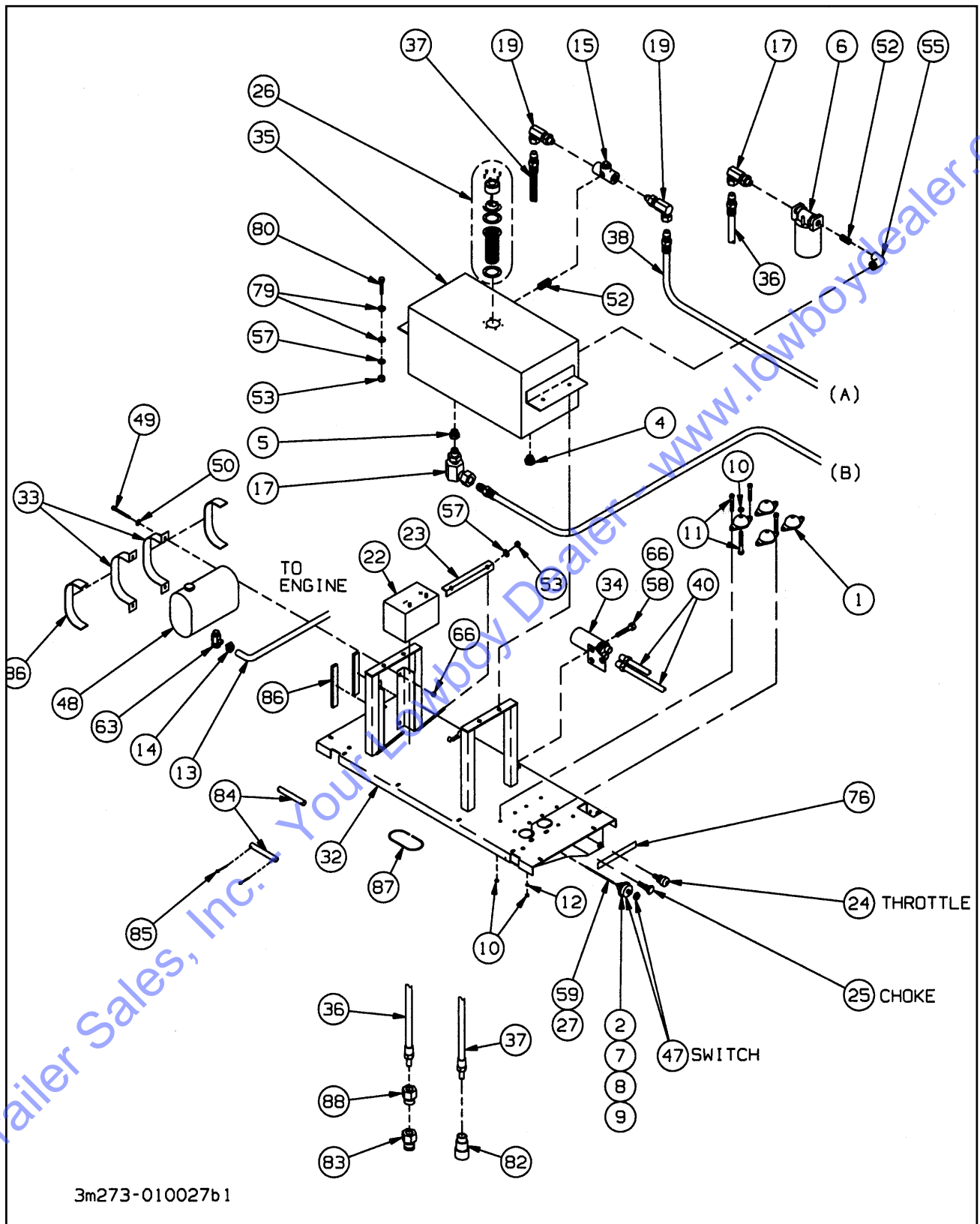


Figure 1-45 Engine Package Front Mount (2 of 2)

ENGINE PACKAGE FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010027-01	ENGINE PACKAGE FRONT MOUNT 20HP	
	3-273-010027-02	ENGINE PACKAGE FRONT MOUNT 24HP	
1	CA-1595	MACHINE MOUNT 40 DROMETER	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
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	104-0505-048	HOSE PRESS FUEL 1/4	1
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	*2,3
18	2047-12-16S	ELBOW 90 SWIVEL PIPE 3/4-1	*1,0*
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
23	3-120-010124	BATTERY CLAMP BRACKET	1
24	3-155-010012	CABLE THROTTLE	1
25	3-155-010025	CHOKE CABLE	1
26	3-162-010001	FILLER BREATHER STRAINER ASSY	1
27	3-201-010002	CONDUIT PLASTIC FLEX 3/8	6'
28	3-220-010003	FLEXIBLE COUPLING 1-1/8 X 3/4	*1,0
29	3-220-010002	FLEXIBLE COUPLING 1-7/16 X 3/4	*0,1
30	3-273-010006	ENGINE 20HP ONAN	*1,0
31	3-273-010013	ENGINE 24HP ONAN	*0,1
32	3-482-010510	MOUNT WELDMENT HYD. POWER CENTER	1
33	3-744-010046	STRAP 3 GAL FUEL TANK	2
34	122-0476	BASE ASSEMBLY OIL FILTER	1
35	3-786-010005	HYDRAULIC TANK FIFTH WHEEL	1
36	3-397-010237	HOSE ASSEMBLY 3/4	1
37	1-397-010311040	HOSE ASSEMBLY 1/2	1
38	3-397-010152	HOSE ASSEMBLY 1/2	1
39	3-397-010261	HOSE ASSEMBLY 3/4	1
40	1-397-010341040	HOSE ASSEMBLY 1/2 SWIVEL 1/4	2
41	3-427-010003	KEY WOODRUFF 317/350	*1,0
42	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
43	122-0691	ADAPTER ASSEMBLY—REMOTE FILTER	8
44	3-591-010005	PUMP HYDRAULIC GEAR	*1,0
45	3-591-010003	PUMP HYDRAULIC GEAR	*0,1
46	3-482-010360	MOUNT CHOKE CABLE WLDMT	1
47	3-765-010005	IGNITION SWITCH	1
48	3-783-010013P	TANK FUEL 3 GAL	1
49	1-654-010049-07	SCREW HEX CAP 5/16-18 X 1-1/2 GR5	4
50	1-861-010032-09	WASHER FLAT 5/16	8

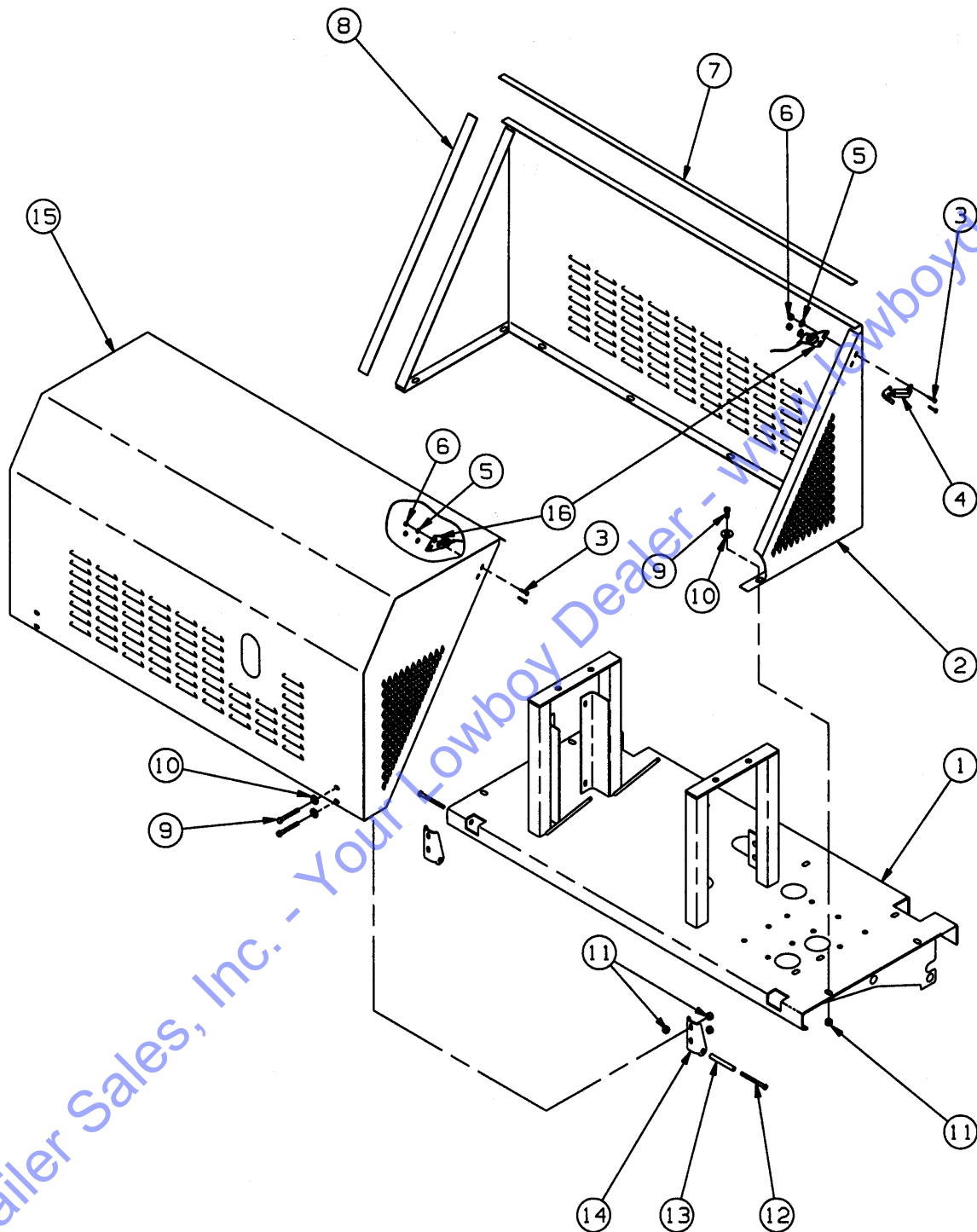
ENGINE PACKAGE FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
51	3/16X3/4CS SELF	SCREW HEX HEAD CAP SELF-DRILL 3/16 X 3/4	2
52	3/4NIPPLE	ALL THREAD NIPPLE	2
53	1-510-010001	NUT FLANGE LOCK 3/8-16	6
54	1-654-010049-07	SCREW HEX HEAD CAP 5/16-18 X 1-1/2 GR5	2
55	3/4ST ELL	ELBOW BLACK PIPE 90	2
56	2045-8-8S	INT. PIPE SWIVEL EXT. PIPE 1/2-14	1,0*
57	1-861-010032-11	WASHER FLAT 3/8	14
58	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
59	3-272-010022	ELECTRICAL BUTT SPLICE 12-10 W/SEAL	1
60	514-9045-60	CABLE BATTERY KI (POS) AUX ENGINE	1
61	541-0203	EXHAUST ADAPTER KIT	*1,0
62	541-0379	MUFFLER 20HP ONAN	*1,0
63	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
64	122-0771	GASKET OIL FILTER ADAPTER	*1,0
65	2047-8-8S	ADAPTER	*1,0
66	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	7
67	2216-12-16S	ADAPTER 3/4-14 TO 1-5/16 O-RING ADAPTER	*0,1
68	1-007-010024	1/2PIPE TO 1-1/16 O-RING 90	*0,1
69	3-276-010693	EXT EXHAUST 24HP SLOPE	*1,0
70	3-276-010691	EXT EXHAUST 24HP SLOPE	*0,1
71	3-181-010038	CLAMP MUFFLER	*0,1
72	541-0316	MUFFLER 24HP	*0,1
73	110-4338	SQUARE KEY 1/4 X 2	*1,0
74	110-4334	KEY 3/16 X 1-1-4	*0,1
75	110-4348	KEY 3/8 X 1-1/4	*0,1
76	3-735-010030	STENCIL ENGINE CONT SLOPE	.05
77	508-0184	GROMMET - AIR SEAL	1
78	526-0065	WASHER	2
79	805-2	BUSHING STEP	8
80	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
81	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
82	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
83	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
84	3-557-0140380	SUPPORT PIN	4
85	1-557-010362-63	COTTER PIN 1/4 X 2	8
86	10030	SEAL BAR STOCK - NEOPRENE SPONGE	60'
87	1-822-010001018	TRIM 3/8 X 18	1
88	3/4X1/2BUSH	BUSHING BLACK PIPE	1
89	RRT308X.75	TUBE ROUND 1-3/8 X 3/4	*1,0
90	3-182-010028	CLAMP MUFFLER	*1,0

*

THE FIRST QUANTITY LISTED IS FOR THE 20HP ENGINE, THE SECOND QUANTITY LISTED IS FOR THE 24HP ENGINE.

NOTE: SEE FIGURE 1-39 FOR ENGINE HARNESS DIAGRAM.



3m274-010028

Figure 1-46 Engine Cover Assembly

ENGINE COVER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-274-010028	ENGINE COVER ASSEMBLY FRONT MOUNT	
1	3-482-010510	MOUNT WLDMT HYD. POWER CENTER	REF
2	3-222-010167	COVER BACK POWER CENTER	1
3	110-0116	SCREW ROUND HEAD CAP 10-24 X 3/4	8
4	3-443-010018	LATCH FLEXIBLE DRAW LEVER ASSIST	2
5	1-861-010032-04	WASHER FLAT 3/16	8
6	1-512-010004-03	NUT HEX LOCK 10-24 GRA	8
7	1-659-010011056	SEAL NEOPRENE SPONGE	1
8	1-659-010011032	SEAL NEOPRENE SPONGE	2
9	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
10	1-861-010032-11	WASHER FLAT 1/2	12
11	1-510-010001	NUT FLANGE LOCK 3/8-16	14
12	3/8-16X5-1/2CS	CAPSCREW 3/8-16 X 5-1/2 GR5	2
13	3-831-010158	TUBE PIVOT HINGE BRACKET	2
14	3-120-010284	BRACKET HINGE	2
15	3-222-010166	COVER WELDMENT FRONT	1
16	3-744-010041	STRAP ASSEMBLY ENGINE PACKAGE COVER	2

NOTE: COVER FITS P/N'S 3-273-010027-01, -02 (FRONT MOUNT) AND 100683, 100684 (UPPER DECK MOUNT) ENGINE PACKAGES.

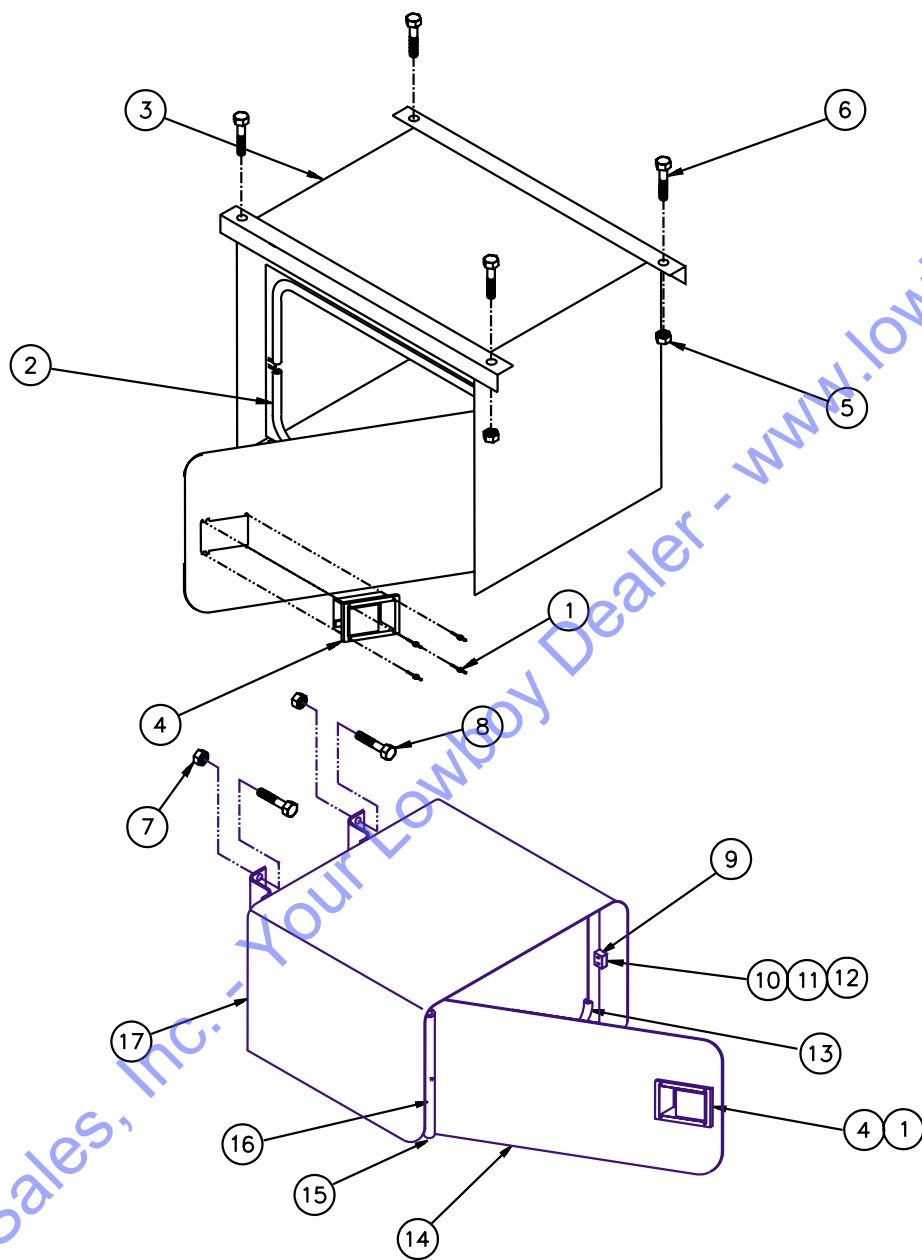


Figure 1-47 Tool Boxes

TOOL BOXES (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	B3-115-016	TOOL BOX, TOP MOUNTING, 24X30X30 (ITEMS 1-6)	
	B7-115-003	TOOL BOX BACK MOUNTING LH (ITEMS 1, 4, & 7-17)	
	B7-115-004	TOOL BOX BACK MOUNTING RH (ITEMS 1, 4, & 7-17)	
1	BSL-6-4	RIVET	4
2	1-822-010002-13	TRIM-LOK	1
3	3-115-010053	TOOL BOX	1
4	3-443-010010	LATCH	1
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	4
7	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
8	1-654-010055-09	SCREW HEX HEAD CAP 1/2-13 X 3 GR5	4
9	3-659-010013-1	SEAL NEOPRENE SPONGE	1
10	7-458-010009	PLATE STRIKER	1
11	110-0253	WASHER FLAT STD 3/16	2
12	118-7962	SCREW PAN HEAD MACHINE SLT	2
13	514-1000-056	TRIM QUICKEDGE CUT LG.	2
14	3-115-010096	DOOR TOOL BOX	1
15	SCREW#6X3/8	SCREW SELF-TAP SLT RD HD #6 X 3/8	1
16	RPRB59004X11	NYLATRON RD	1
17	3-115-010099	TOOL BOX WLDMT LH	1
	3-115-010097	TOOL BOX WLDMT RH	1
18	101299	KEY CHAIN LANDOLL (NOT SHOWN)	1
19	3-115-010046	TOOL BOX SUPPORT (NOT SHOWN)	4

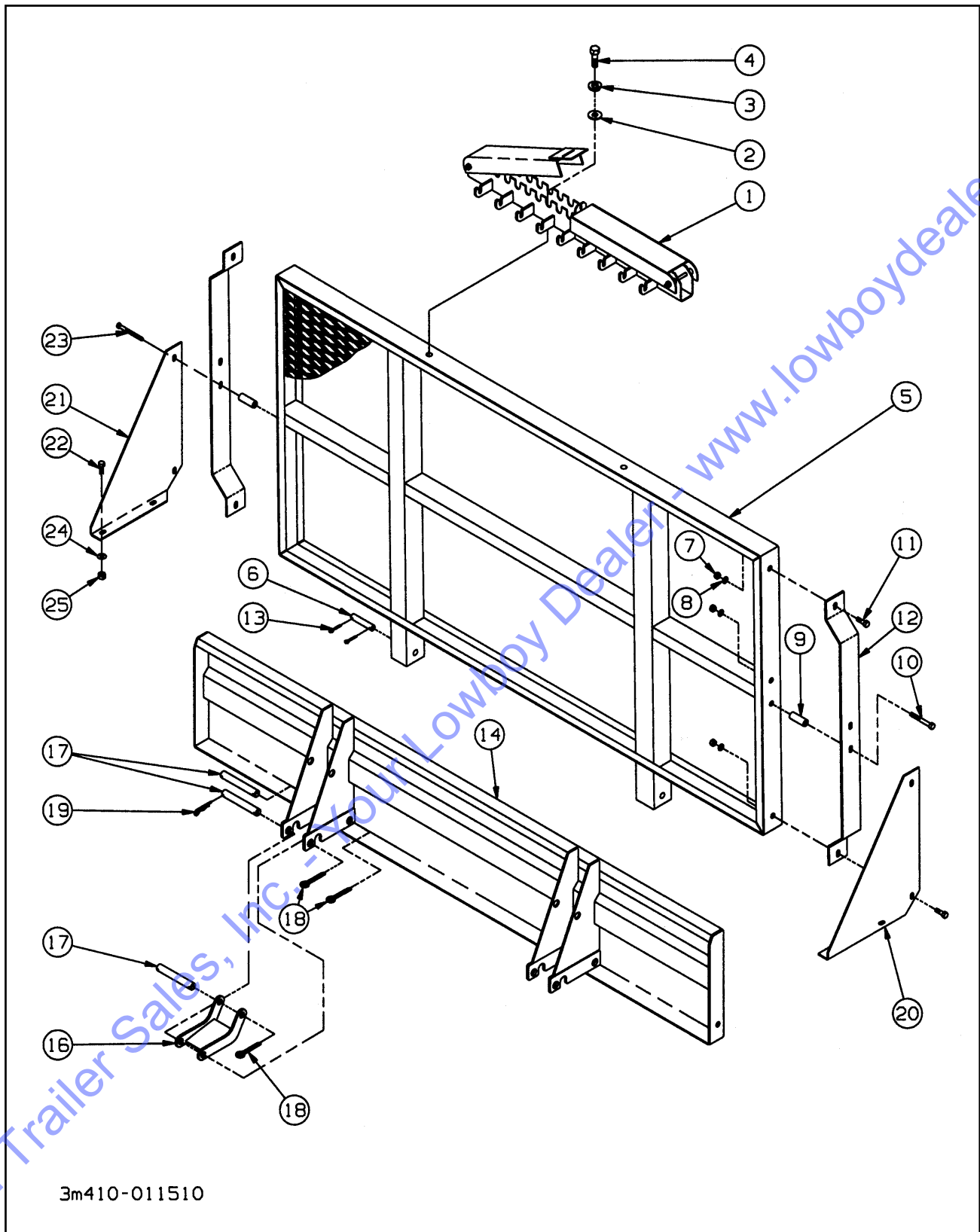


Figure 1-48 Front Extension and Bulkhead

FRONT EXTENSION AND BULKHEAD ASSY(OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	B7-141-003	BULKHEAD CHAIN BACK INSTALLATION (ITEMS 1-4)	
	3-141-010121	BULKHEAD INSTALLATION (ITEMS 5-13)	
	3-141-010123	BULKHEAD INSTALLATION 2 POSITION (ITEMS 14-19)	
	3-117-010071	BRACE INST. STABILIZING 48' BULKHEAD (ITEMS 20-25)	
1	3-141-010008	CHAIN HANGER LOCKING CHANNEL WLDMT	1
2	1-861-010032-11	WASHER, FLAT 3/8	1
3	1-861-010034-11	WASHER, SPLIT LOCK 3/8	1
4	3/8-16 X 1-1/4 CS	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
5	3-141-010155	BULKHEAD WELDMENT 48 X 96 (96)	1
	3-141-010152	BULKHEAD WELDMENT 16 X 102 (102) (NOT SHOWN)	1
6	6-557-010163	PIN HITCH LEVEL LINK	2
7	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB (102)	6
8	1-861-010032-15	WASHER PLAIN TYPE A 1/2 (102)	6
9	3-711-010025	SPACER (102)	2
10	1-654-010055-13	SCREW HEX HEAD CAP 1/2-13X4 GR5 (102)	2
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5 (102)	4
12	3-054-010101	BAR SIDE BULKHEAD EXTENSION (102)	2
13	1-557-010362-63	COTTER PIN 1/4X2	4
14	3-141-010118	BULKHEAD WELDMENT 16 X 96	1
	3-141-010119	BULKHEAD WELDMENT 16 X 102	1
	3-141-010151	BULKHEAD WELDMENT 16/24 X 96	1
	3-141-010147	BULKHEAD WELDMENT 16/24 X 102	1
16	3-755-010080	SUPPORT WELDMENT BULKHEAD	2
17	3-557-010380	SUPPORT PIN	6
18	1-557-010362-63	COTTER PIN 1/4X2	10
19	1-557-010014	HAIRPIN	2
20	3-117-00069	BRACE LH STABILIZING 48' BULKHEAD	1
21	3-117-010070	BRACE RH STABILIZING 48' BULKHEAD	1
22	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	*8,4
23	1-654-010055-14	SCREW HEX HEAD CAP 1/2-13X4-1/2 GR5	*-,4
24	1-861-010032-15	WASHER FLAT 1/2W	8
25	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
26	3-711-010025	SPACER 48' BULKHEAD	2

* 1ST QUANTITY LISTED IS FOR STABILIZING BRACE INSTALLATION 96" WIDE TRAILER; 2ND QUANTITY LISTED IS FOR STABILIZING BRACE INSTALLATION 102" TRAILER

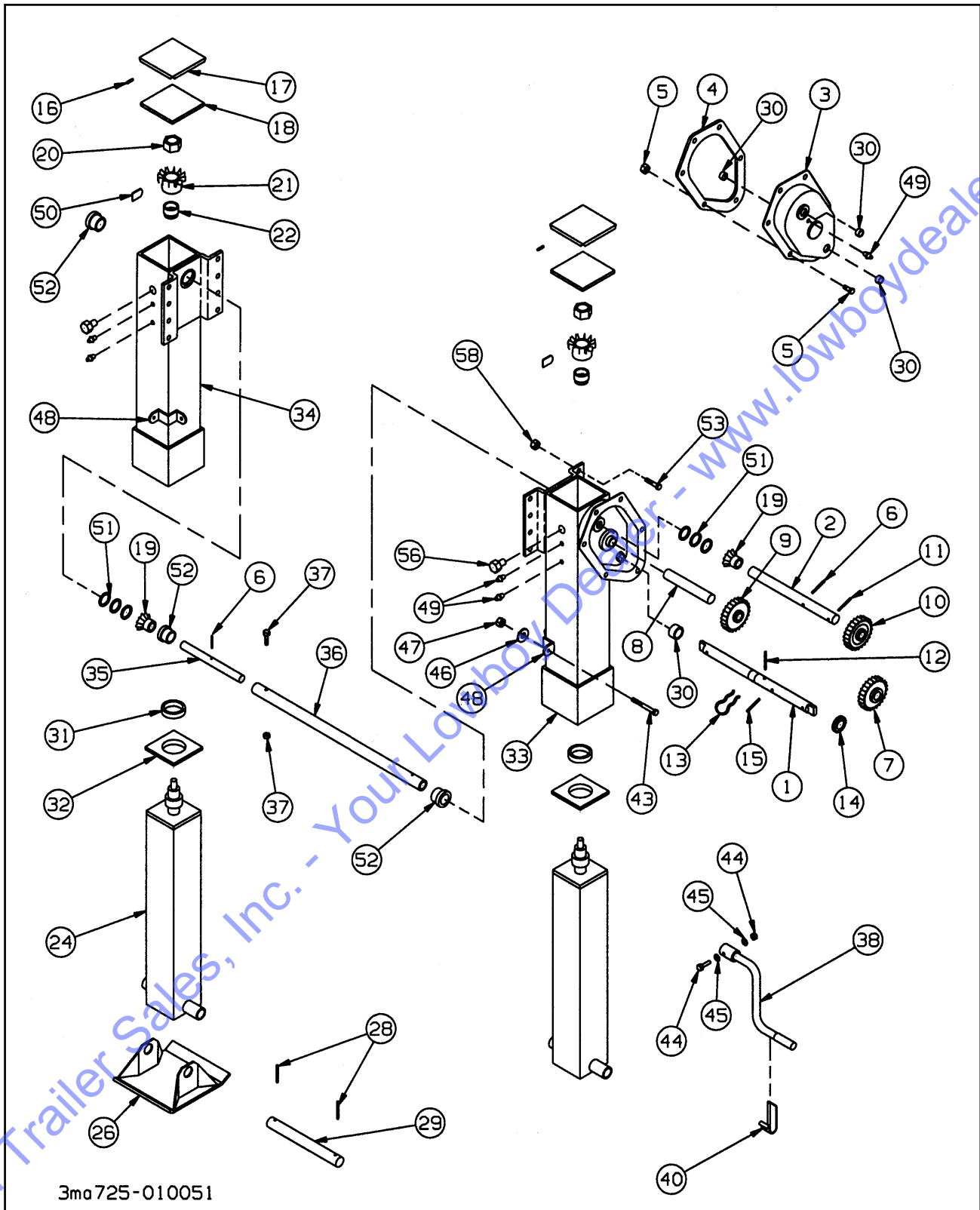


Figure 1-49 Landing Gear 120,000 Lb w/ Crank

LANDING GEAR 120,000 LB W/ CRANK

ITEM	PART NO.	DESCRIPTION	QTY.
	3-725-010051	LAND GEAR 120000 (HOLLAND #LG75-3A105)	
1	XA-V-05159-A	DRIVE AND GEAR SHAFT	1
2	XA-V-05123-A	DRIVE GEAR SHAFT	1
3	XA-V-1920	GEARBOX COVER	1
4	XB-V-1926	GASKET	1
5	XB-CX-14-28-F-58	HEX HEAD CAP SCREW 1/4-28 X 5/8	6
	XB-3103	NUT LOCK 1/4 X 28	6
6	XB-020065	GROOVE PIN	2
7	XA-V-1927	IDLER GEAR	1
8	XA-V-1957	IDLER GEAR SHAFT	1
9	XA-V-1928-1	STEP GEAR (UNDRILLED)	1
10	XA-V-1928	STEP GEAR (DRILLED)	1
11	XB-21-S-375-1500	SPIRAL PIN 3/8 X 1-1/2	1
12	XB-21-S-187-1250	SPIRAL PIN 1/16 X 1-1/4	1
13	XB-V-1949	SHIFTER SPRING	1
14	XA-V-1929	SHIFTER GEAR	1
15	XA-CRP-V-1917	PIN 3/8 X 1-7/16	1
16	XB-04112	SELF TAPPING SCREW	4
17	XA-V-03824	UPPER LEG COVER	2
18	XB-V-1966	GASKET	2
19	XA-V-04204-1	BEVEL PINION	2
20	XB-FW-25	JAM NUT 1-14	2
21	XA-V-04205-1	BEVEL GEAR	2
22	XB-V-643-A2	BUSHING	2
24	XA-V-05356-0 -5	INNER LEG & SCREW ASSEMBLY	2
26	XA-V-796-B-1	SKID FOOT 12 X 11-1/2	2
28	XB-21-S-375-3000	ROLL PIN 3/8 X 3	
29	XA-V-1901-1	AXLE	2
30	XB-V-851	BUSHING	4
31	XB-V-V-647	THRUST BEARING	2
32	XA-V-1913	THRUST BEARING	2
33	XA-V-03876-0 -5	OUTER LEG ASSEMBLY (2 SPEED)	1
34	XA-V-03875-0 -5	OUTER LEG ASSEMBLY (SINGLE SPEED)	1
35	XA-V-05122-A	DRIVE GEAR SHAFT	1
36	XA-V-1910	CROSS SHAFT	1
37	XB-V-444-1	HEX HEAD CAP SCREW 3/8-16 X 1-3/4	2
	XB-338	LOCKNUT 3/8-16	2
38	XA-S9-3105	TUBULAR HAND CRANK (MODIFIED)	1
40	XA-V-1914	CRANK HANGER	1
43	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	2
44	XB-C-38-C-214	HEX HEAD CAP SCREW 3/8-16	1
	XB-338	LOCKNUT 3/8-16	1
45	XB-1108	SAE 3/8-16	2
46	1-861-010034-15	WASHER SPLIT LOCK 5/8	4
47	1-512-010005-13	NUT HEX LOCK 5/8-11 GR B	4
48	XA-V-1938	BRACE	2
49	XB-767	LUBE FITTING	5
50	XB-H-32-2	WOODRUFF KEY	2
51	XB-03816	SHIM	AR
52	XB-0307	BEARING	3
53	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	18
56	XB-01789	LUBE PLUG	2
58	1-512-010005-09	NUT HEX LOCK 1/2-13 GR B	18

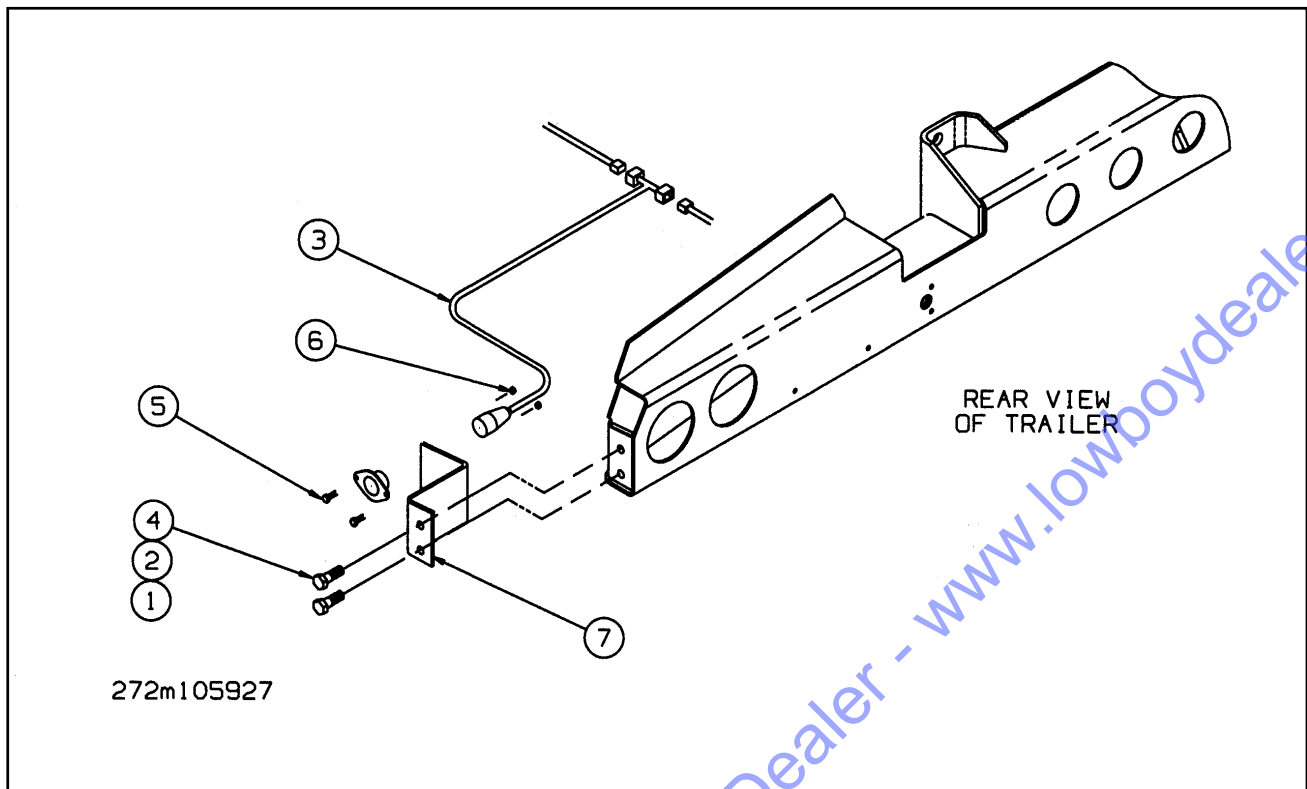


Figure 1-50 Electrical Installation, 7-Way Recp Bumper

MISCELLANEOUS OPTIONS

ITEM	PART NO.	DESCRIPTION	QTY.
	105927	ELECTRICAL INSTALLATION 7-WAY AT BUMPER	1
1	1-861-010032-15	WASHER, FLAT 1/2	4
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	2
3	3-368-010257	HARNESS MODIFIED EXT 7-WAY RECP.	1
4	1-512-010005-03	NUT, HEX LOCK 1/2-13 GRB	2
5	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
6	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
7	106600	BRACKET 7WAY AT BUMPER	1

NOTES:

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