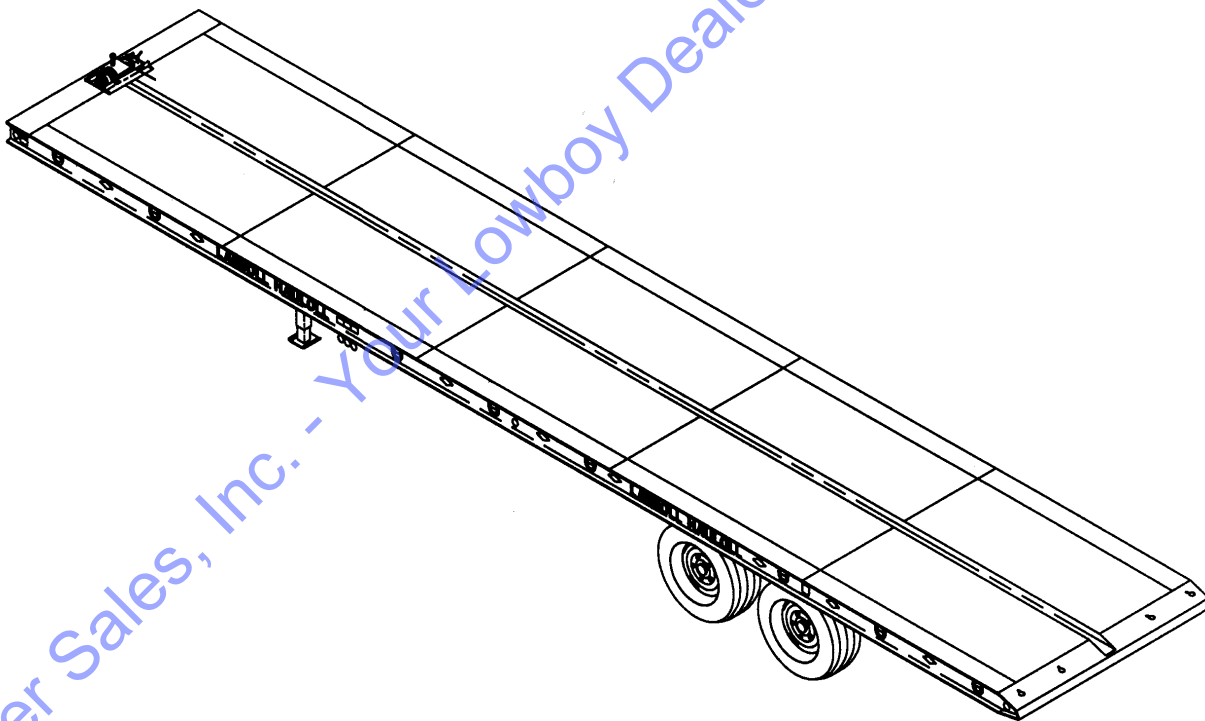




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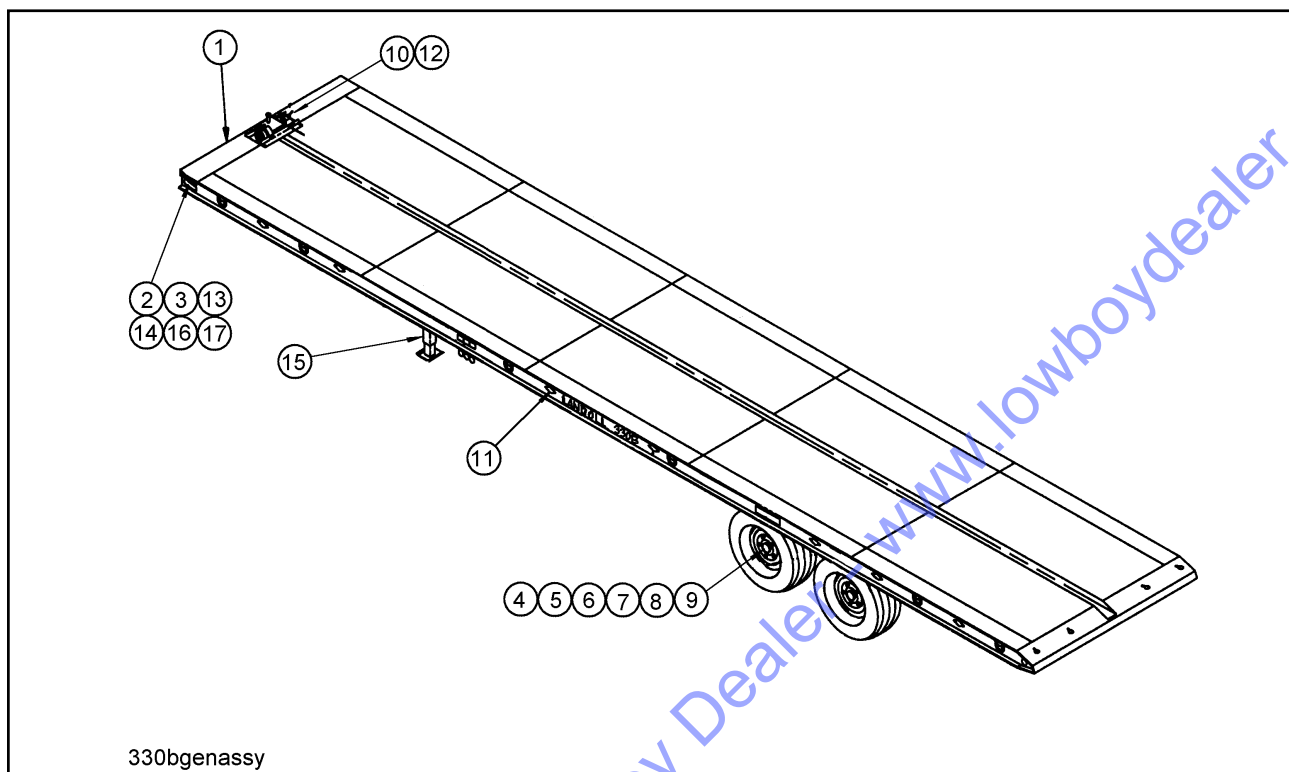


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
1	1-2	FIFTH WHEEL ASSEMBLY	1
2	1-3-1-12; 1-14-1-15	HYDRAULIC ASSEMBLIES	1
3	1-16 - 1-23	ELECTRICAL ASSEMBLIES	1
4	1-24 - 1-29	UNDERCARRIAGE & SUSPENSION - SPRING RIDE	1
5	1-30 - 1-37	UNDERCARRIAGE & SUSPENSION - AIR RIDE	1
6	1-38 - 1-39	AXLE AND BRAKE ASSEMBLY	1
7	1-40 - 1-45	AIR BRAKE SYSTEM	1
8	1-46 - 1-47	HUB AND DRUM ASSEMBLY	2
9	1-48 - 1-49	AIR SYSTEM	1
10	1-50 - 1-66	WINCH ASSEMBLIES	1
11	1-67 - 1-69	DECAL INSTALLATION	1
12	1-70 - 1-71	HYDRAULIC WET KIT ASSEMBLY (OPTION)	1
13	1-72 - 1-83	AUXILIARY ENGINE ASSEMBLIES (OPTION)	1
14	1-13;1-84-1-87;1-92	MISCELLANEOUS OPTIONS	AR
15	1-88 - 1-91	LANDING GEAR ASSEMBLIES	1
16	1-116-010019	BOX MANUAL STORAGE	1
17	105-0093	HOSE CLAMP 4-1/2	1

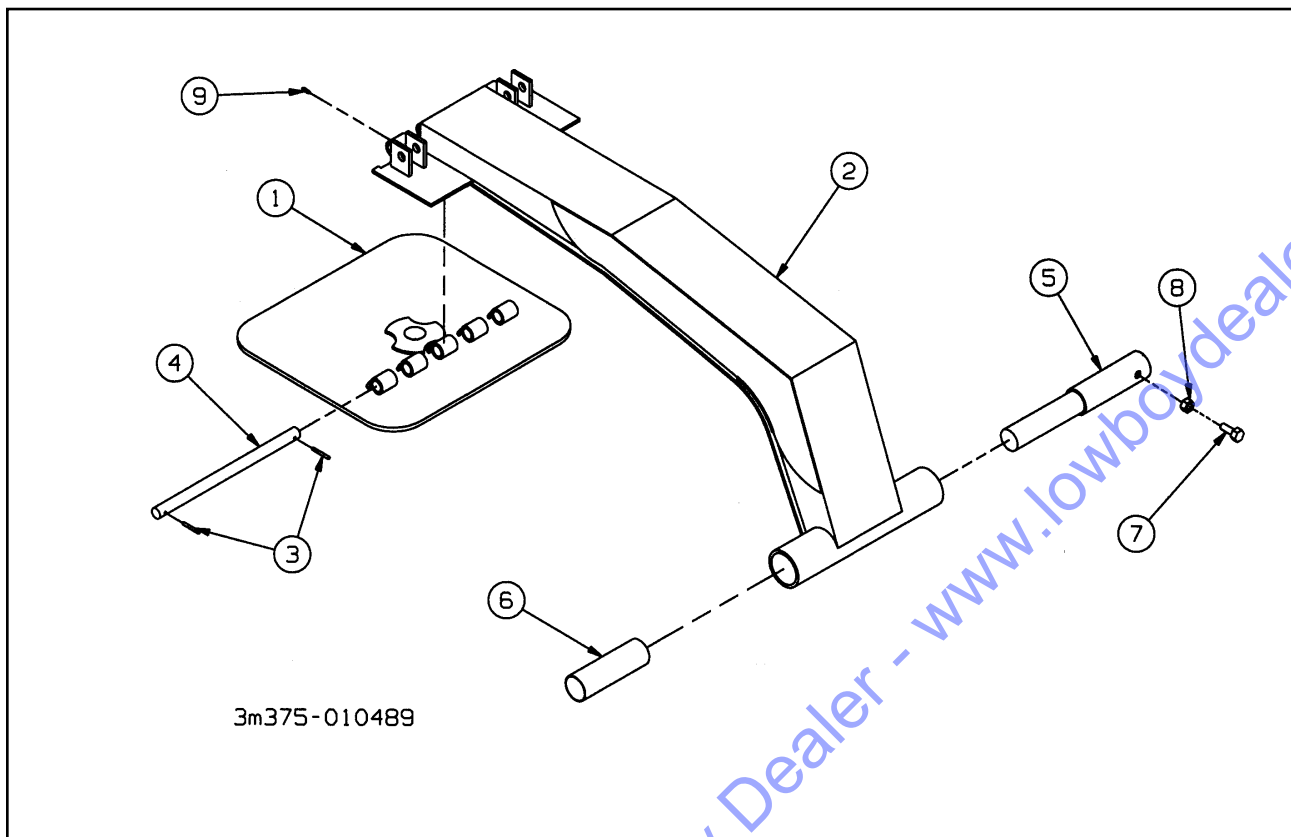
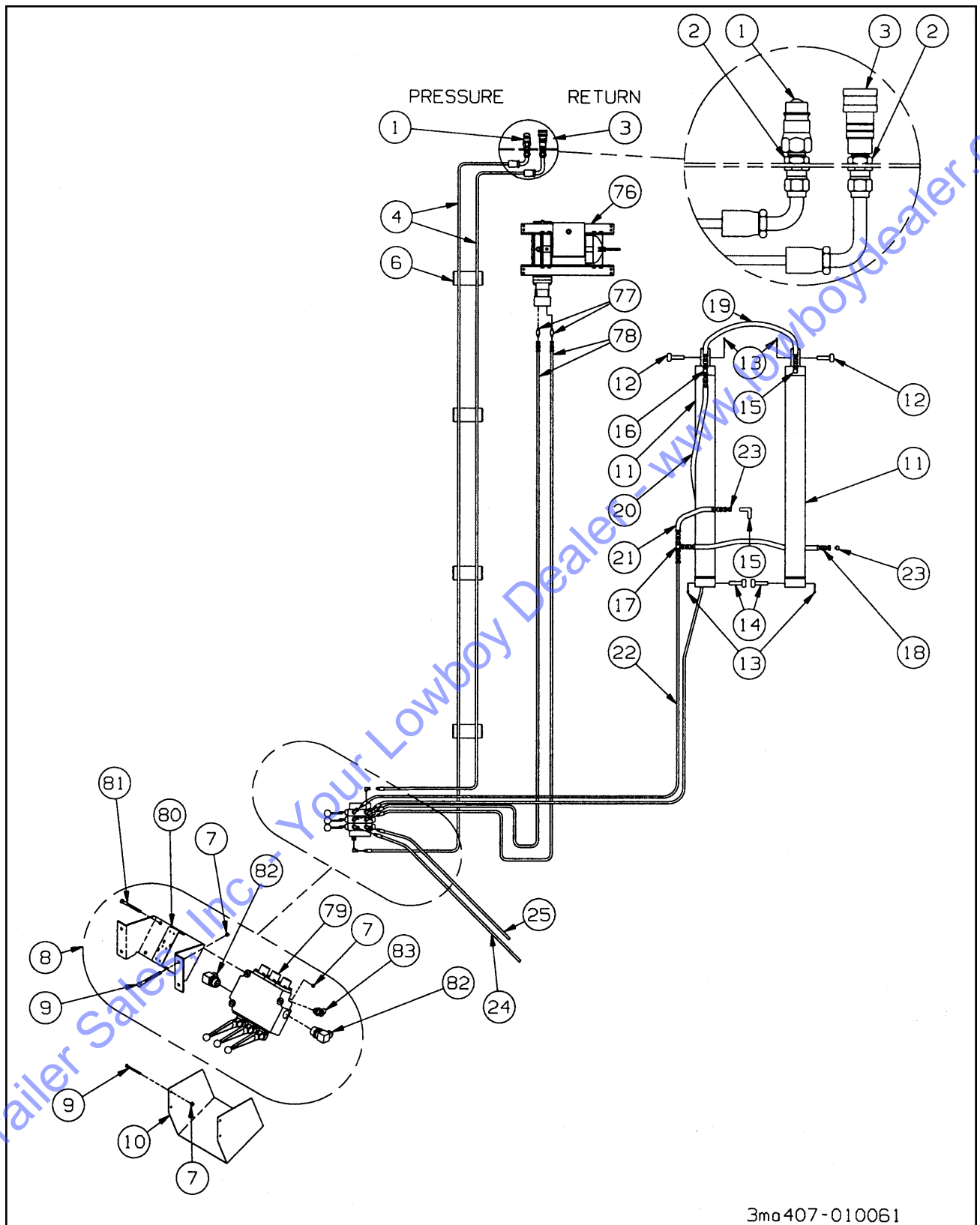


Figure 1-2 Fifth Wheel Assembly

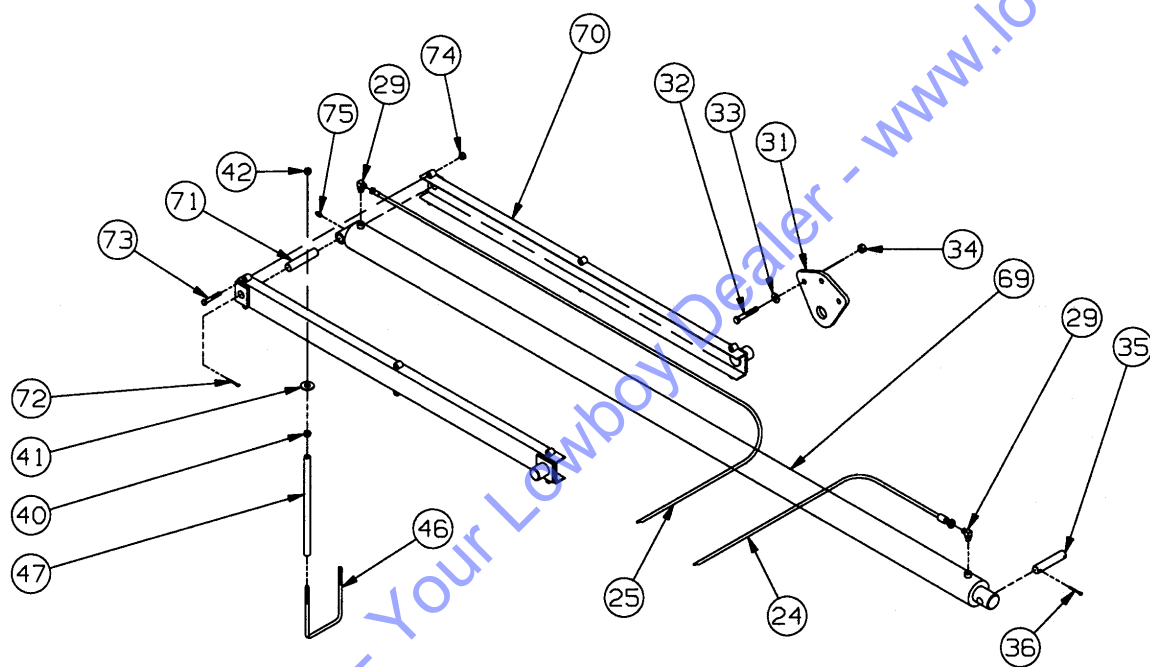
FIFTH WHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-375-010489-3	HITCH INSTALLATION 30 PIN 330-42 TRL	
	3-375-010489-4	HITCH INSTALLATION 30 PIN 330-48 TRL	
	114547	HITCH INSTALLATION 24 PIN 330-42 TRL	
	114548	HITCH INSTALLATION 24 PIN 330-48 TRL	
1	3-375-010250	HITCH PLATE 24"/30" KING PIN	1
	3-375-010349	HITCH PLATE 18" KING PIN	1
2	3-375-010292	HITCH ASSEMBLY 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 WELDMENT 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

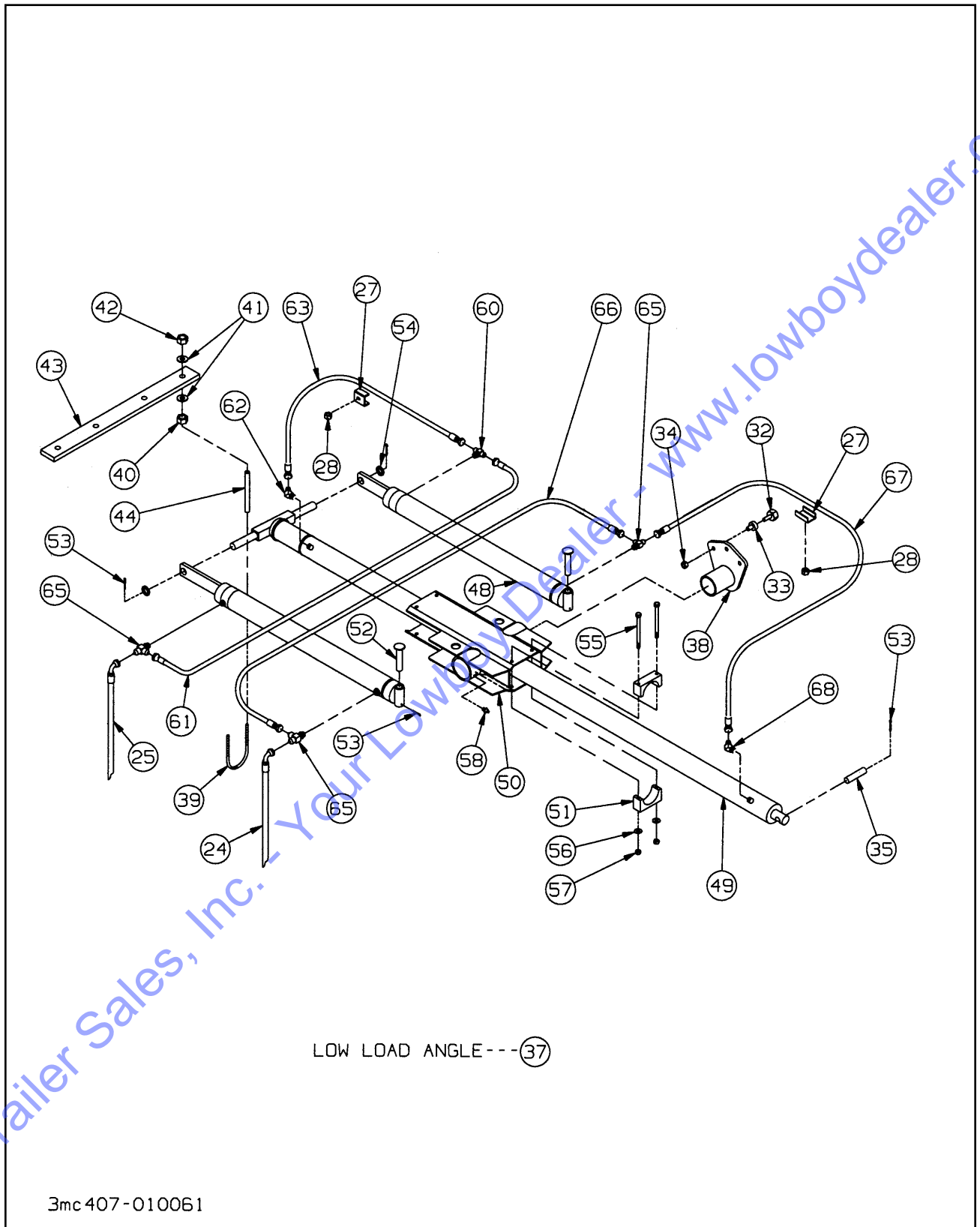


Figure 1-5 Hydraulic System - Low Load Angle Option

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	105479	COUPLER, FLAT FACE MALE	1
	105481	COUPLER, DUST CAP MALE	1
2	105483	ADAPTER BULKHEAD 12JIC-12ORING	2
3	105480	COUPLER, FLAT FACE FEMALE	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 X 1 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	1-397-010301048	HOSE ASSEMBLY	1
19	107756	HOSE ASSEMBLY 24 STR-90	1
20	1-397-010301220	HOSE ASSEMBLY (42')	1
	1-397-010301268	HOSE ASSEMBLY (48')	1
21	1-397-010301028	HOSE ASSEMBLY	1
22	1-397-010301122	HOSE ASSEMBLY (42')	1
	1-397-010301194	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
	1-397-010302112	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	1-796-010003-02	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 X 2-1/4 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
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	1-512-010007-09	NUT 1/2-13 GR2	2,4*

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
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
46	3-102-010048	U-BOLT 7-5/8 X 10 (STD LOAD ANGLE)	1
47	2750-8	HOSE AIR BRAKE 1/2 X 20 (STD LOAD ANGLE)	1,666
48	3-242-010099	HYDRAULIC CYLINDER WELDMENT (SEE PAGE 1-8)	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
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 1-15)	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.

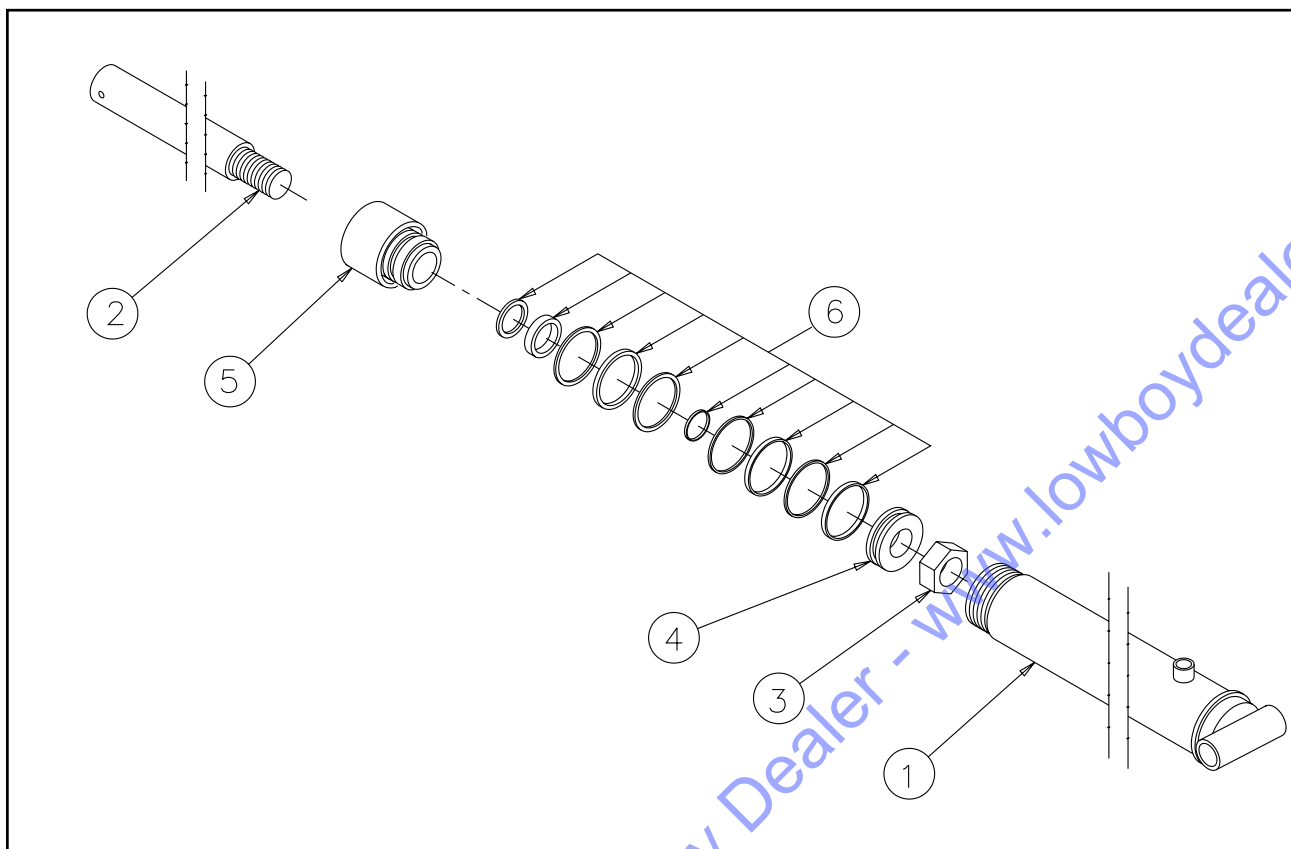


Figure 1-6 Trailer Tilt Cylinder Assembly

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.

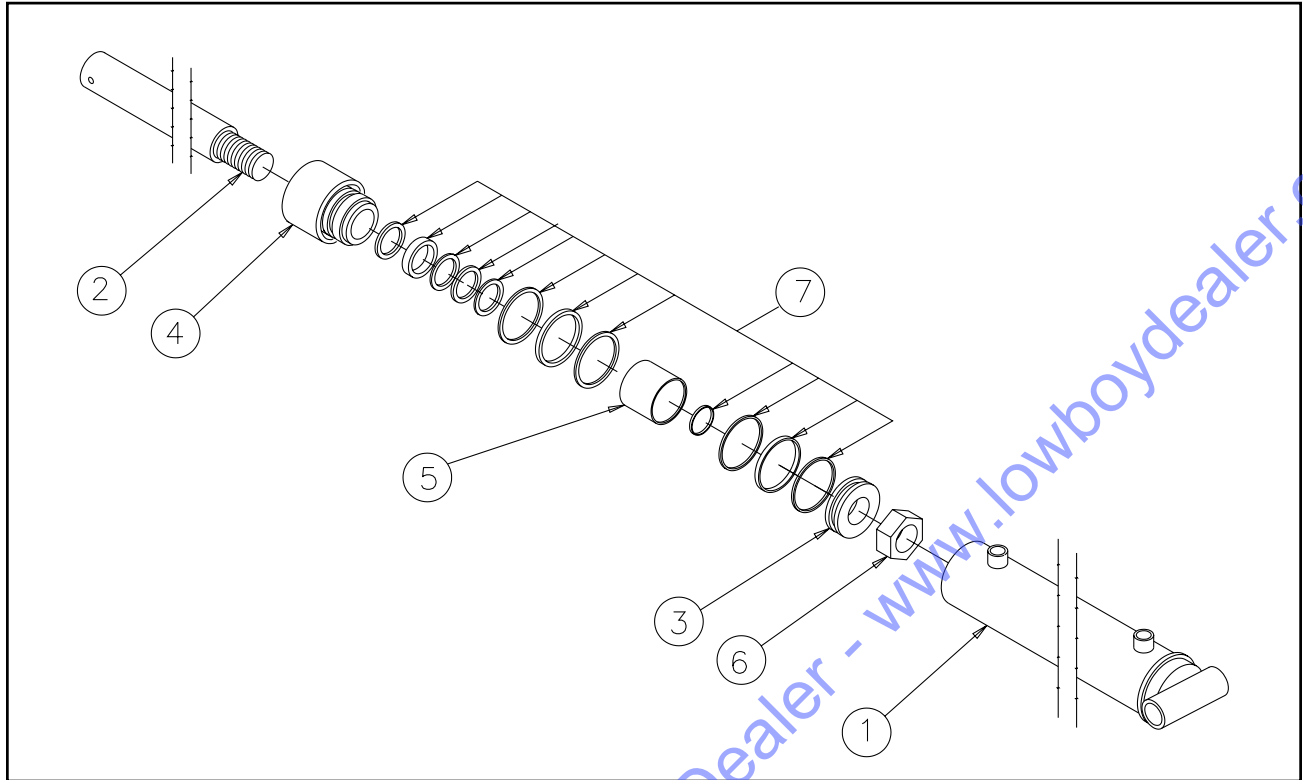
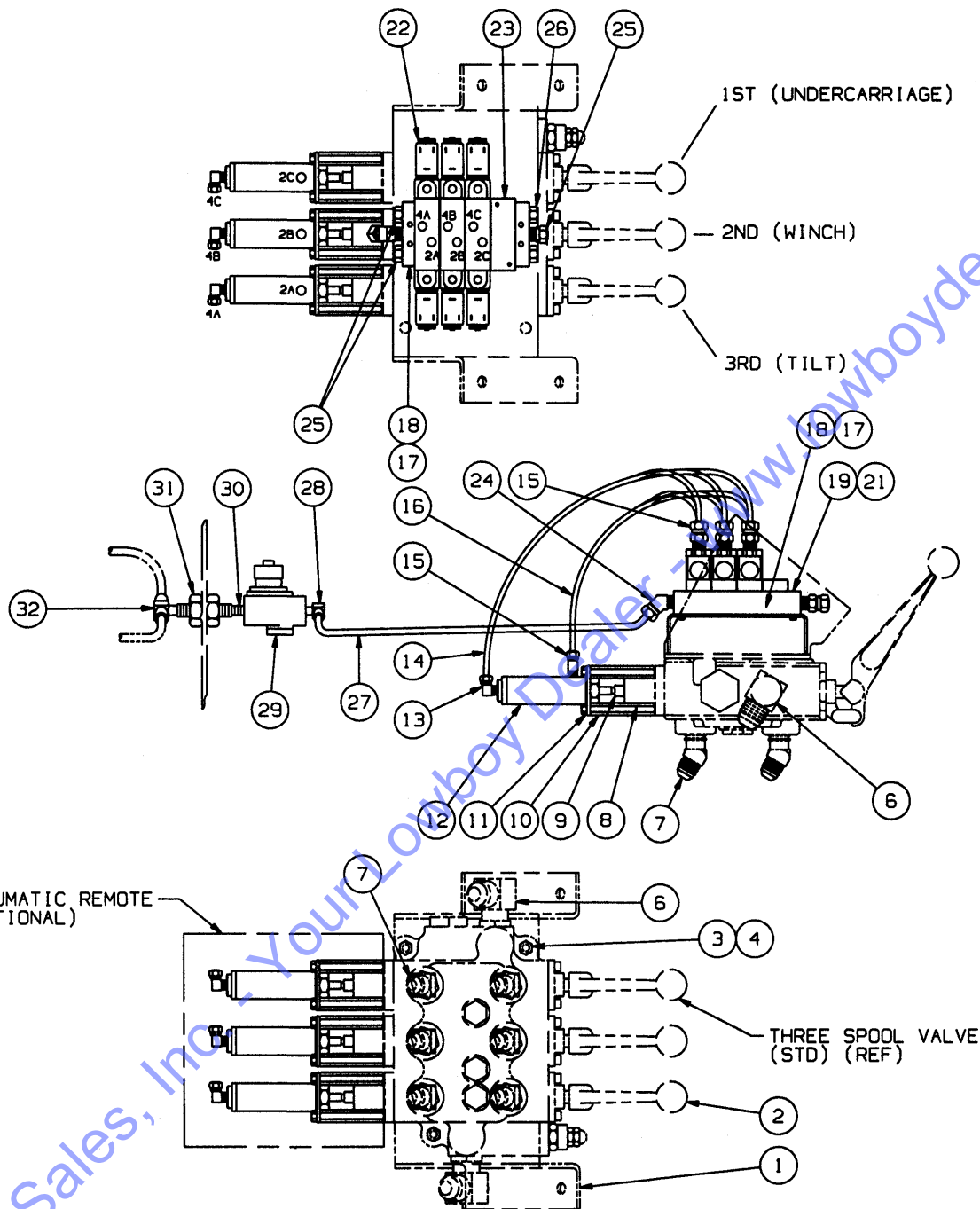


Figure 1-7 Undercarriage Slide Cylinder Assembly

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.



3mf846-010152

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 1-15)	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
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 1-12)	-	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
27	1-833-010001	NYLON TUBING 1/4 OD	3'	3'	3'	3'
28	1-297-010008-07	FITTING AIR 90 1/4 TUBE X 1/4 NPT	1	1	1	1
29	905-54-107	VALVE AND FILTER PRESSURE	1	1	1	1
30	1-297-010020-02	FITTING BRS PIPE CL NIP 1/4	1	1	1	1
31	1-297-010022-02	FITTING AIR ANCHOR CPLG 1/4 NPT	1	1	1	1
32	1-297-010015-09	FITTING AIR BR TEE 1/2T X 1/4P	1	1	1	1

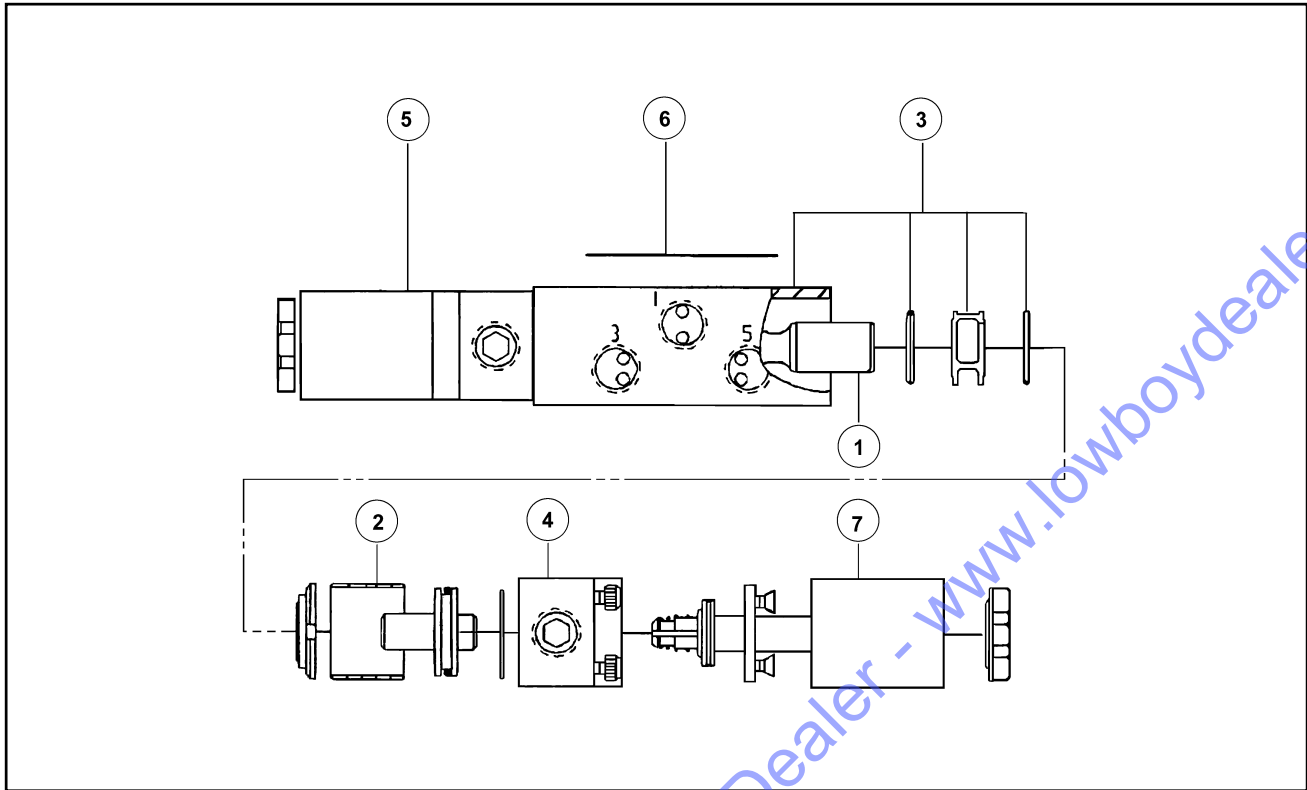


Figure 1-9 Pneumatic Valve

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 seals, o-rings, spring and plunger, and gasket)	

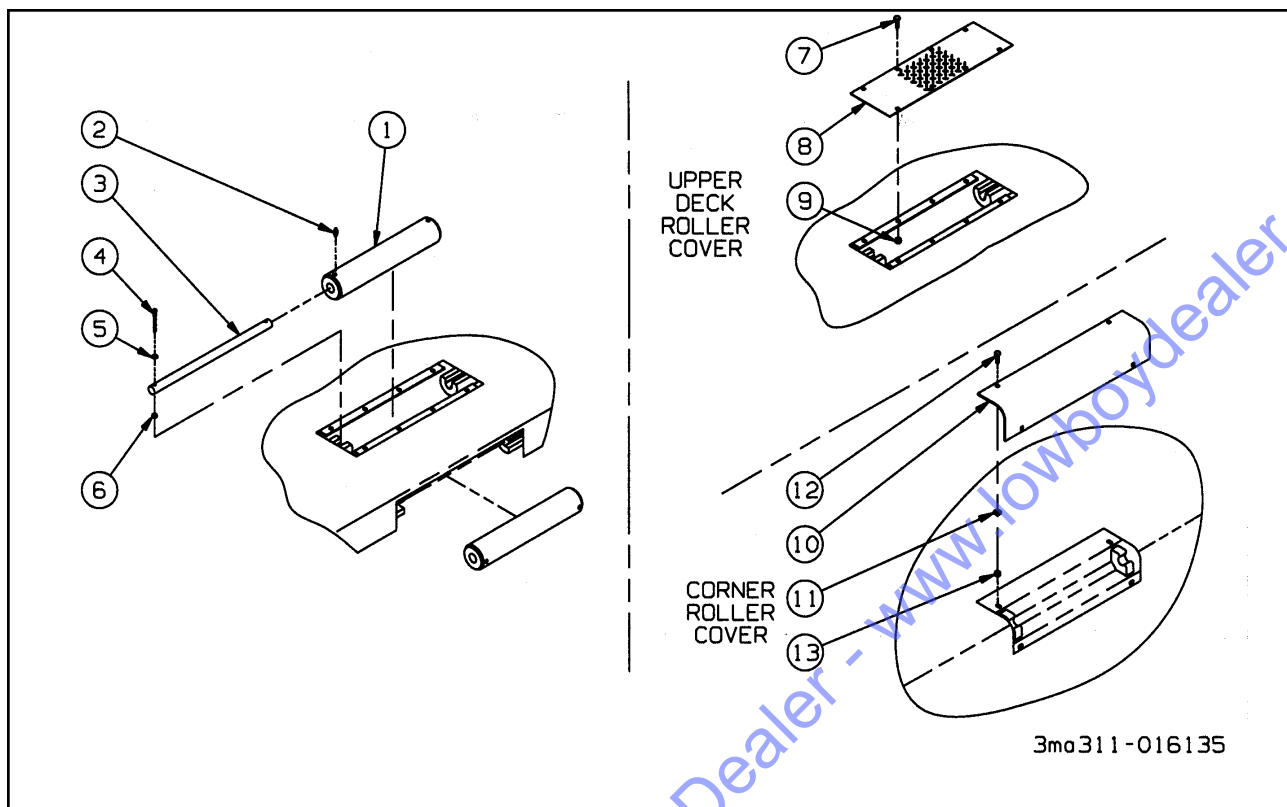


Figure 1-10 Slope Roller 90 Drop Deck (Option)

SLOPE ROLLER 90° DROP DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-645-010085	ROLLER ASSEMBLY SLOPE	
	106207	ROLLER SLOPE SINGLE CORNER	
1	3-645-010059	ROLLER WELDMENT CABLE - UPPER DECK	*2,1
2	1-298-010001-1	ZERK FITTING 1/4	*4,2
3	3-642-010134	ROD ROLLER	*2,1
4	1-654-010055-11	SCREW HEX HEAD CAP 1/2-13 X 3-1/2 GR5	*4,2
5	1-861-010032-15	WASHER FLAT 1/2	*4,2
6	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	*4,2
* 1ST QUANTITY USED FOR P/N 3-645-010085; 2ND QUANTITY USED FOR P/N 106207			

COVER PLATE INSTALLATION - UPPER DECK ROLLER (OPTION)

	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 (OPTION)

	3-222-010227	COVER PLATE INSTL. - CORNER ROLLER	
10	3-565-011757	PLATE CABLE WEAR	1
11	1-861-010032-14	WASHER FLAT 1/2 N	4
12	1-654-010070-03	SCREW RD HEAD SQ NECK 1/2-13X1-1/2	4
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4

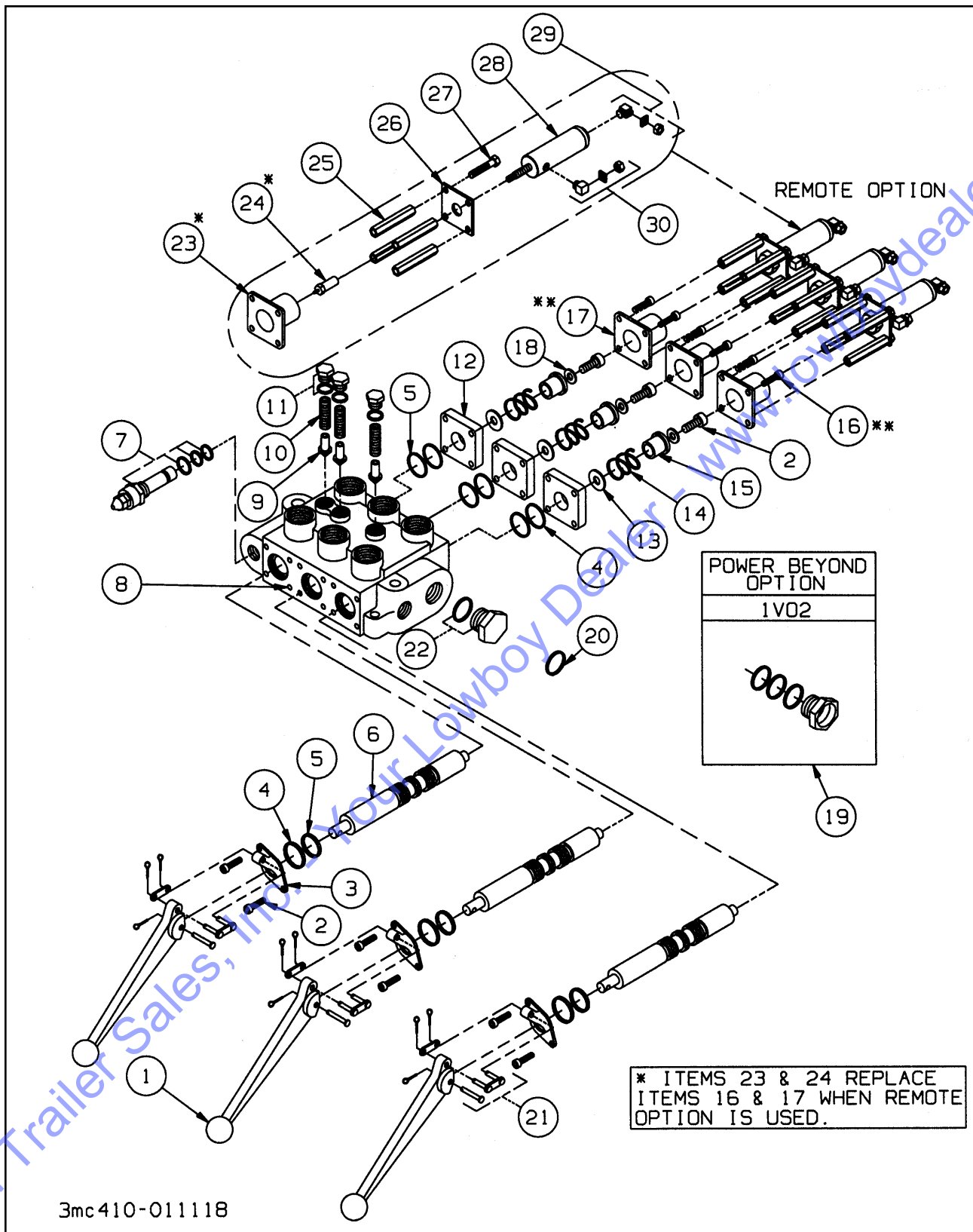


Figure 1-11 Three Spool Valve

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.

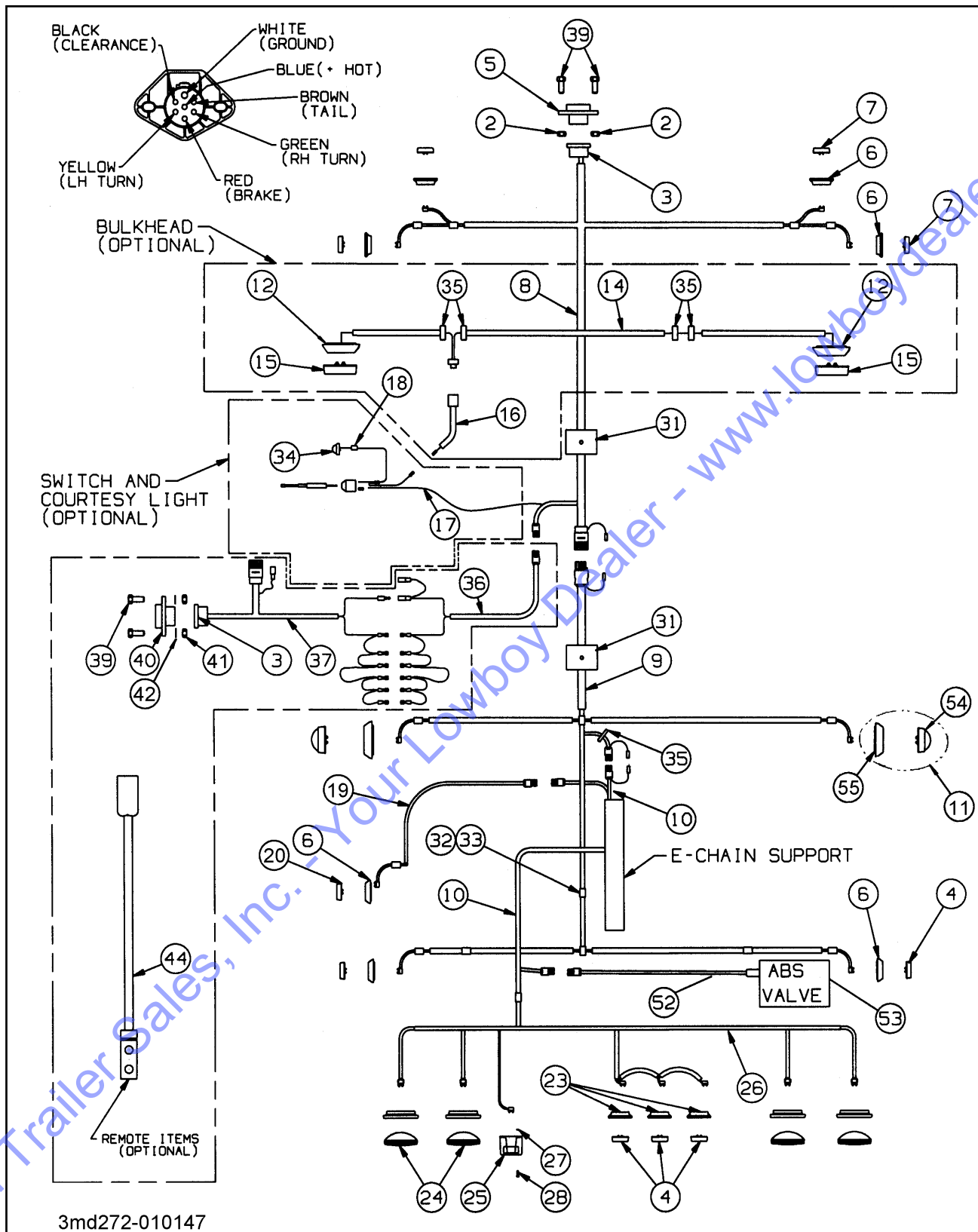


Figure 1-12 Electrical System Schematic
(Prior 12/06/01)

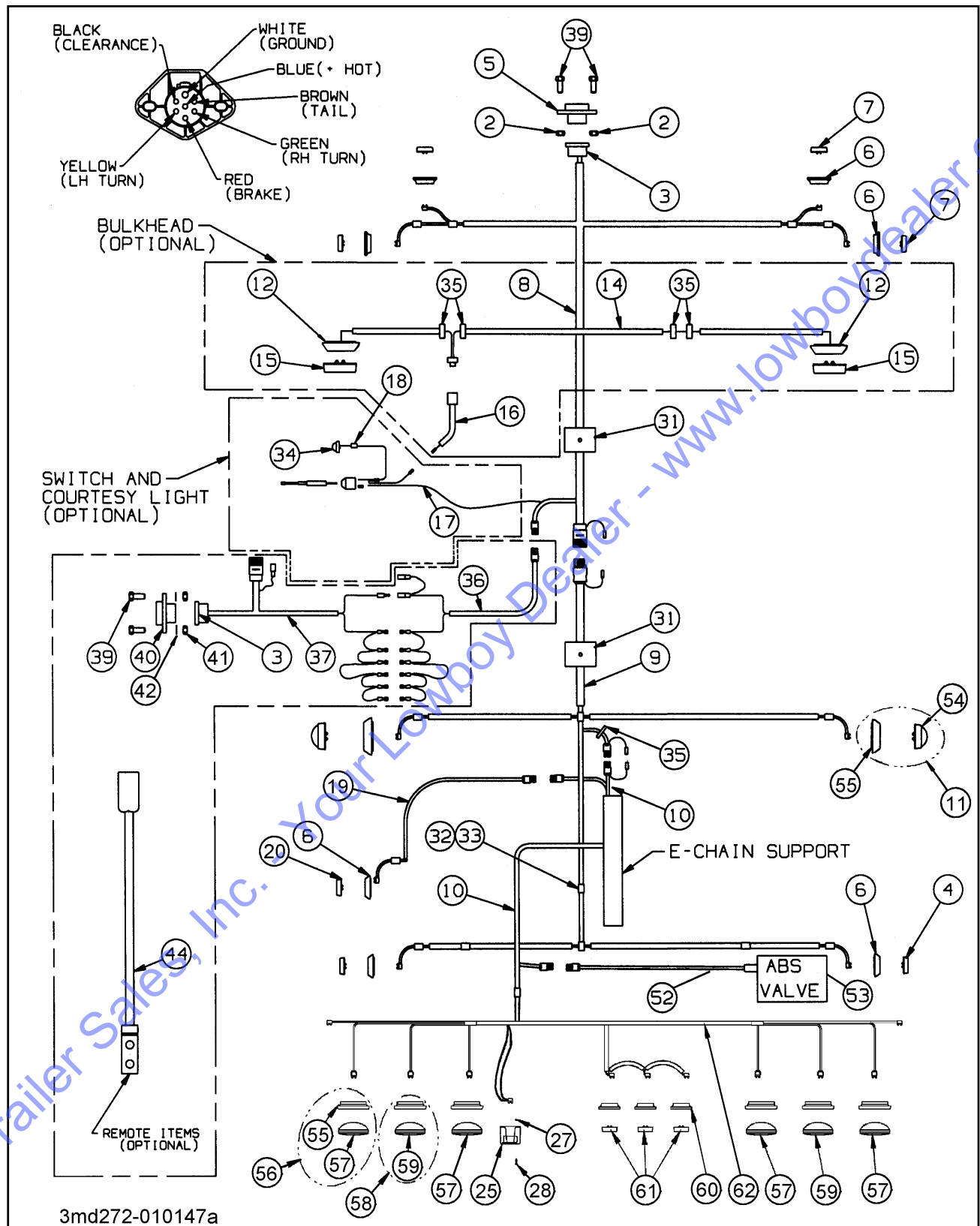


Figure 1-13 Electrical System Schematic
(After 12/06/01)

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 (PRIOR 12/06/01)	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 ASSEMBLY FRONT MAIN	1
	110416	HARNESS ASSEMBLY FRONT MAIN 42'	1
9	3-368-010244	HARNESS ASSEMBLY REAR MAIN	1
	110417	HARNESS ASSEMBLY MAIN REAR 42'	1
10	102836	CABLE ASSEMBLY	1
11	60015Y	LIGHT TURN AND CLR. W/ GROMMET (INCL. 54 & 55)	2
12	1-343-010010	GROMMET 9/16	2
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
18	STP-147	TERMINAL, BULLET	1
19	3-368-010294	HARNESS ABS LAMP	1
20	3-446-010046	LAMP ABS 2.5 DIA AMBER	1
23	10404	GROMMET MOUNT (PRIOR 12/06/01)	3
24	40002R	LIGHT STOP TURN TAIL (PRIOR 12/06/01)	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 (PRIOR 12/06/01)	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	5
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
41	1-512-010007-06	NUT, HEX 5/16-18	2
42	1-861-010034-10	WASHER, SPLIT LOCK 5/16	2
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

ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006-01	CONTROL REMOTE WINCH/TILT/UC (SEE PAGE 1-23 FOR WIRED REMOTE OPTIONS)	1
45	1-660-010006	SEALANT ELECTRICAL DOW CORNING(NOT SHOWN)	AR
52	114590	POWER CABLE 4 COND. (SEE PAGE 1-45)	1
53	114589	ECU/VALVE ASSEMBLY (SEE PAGE 1-45)	1
54	60215Y	LAMP, TRLR CENTER TURN INDICATOR	2
	94926	PLUG W/ PIGTAIL	2
	111925	LIGHT LED TURN MARKER YELLOW	2
55	60700	GROMMET, LIGHT	2
56	106371	LIGHT, TRN-TL-STOP W/ GROMMET (INCL. 55 & 57) (AFTER 12/05/01)	4
57	60202R	LAMP STOP TAIL 3 X 7 RED (AFTER 12/05/01)	4
58	108647	LIGHT, TRN YELLOW W/ GROMMET (INCL. 55 & 59) (AFTER 12/05/01)	2
59	60202Y	LAMP REAR AMBER TURN	2
	116134	LIGHT YELLOW OVAL TURN	2
	121377	LIGHT, YELLOW LED STT	2
60	107598	GROMMET, RECT. C./MKRLAMP (AFTER 12/05/01)	3
61	107599	LIGHT, RED CLEARANCE (AFTER 12/05/01)	3
	113374	LIGHT, RED LED CLEARANCE (AFTER 12/05/01)	3
62	106652	HARNESS, BUMPER (AFTER 12/05/01)	1
63	114581	HARNESS, MOD LED (PRIOR 01/09/02) (NOT SHOWN)	1
	114583	HARNESS, MOD LED (AFTER 01/09/02) (NOT SHOWN)	1

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

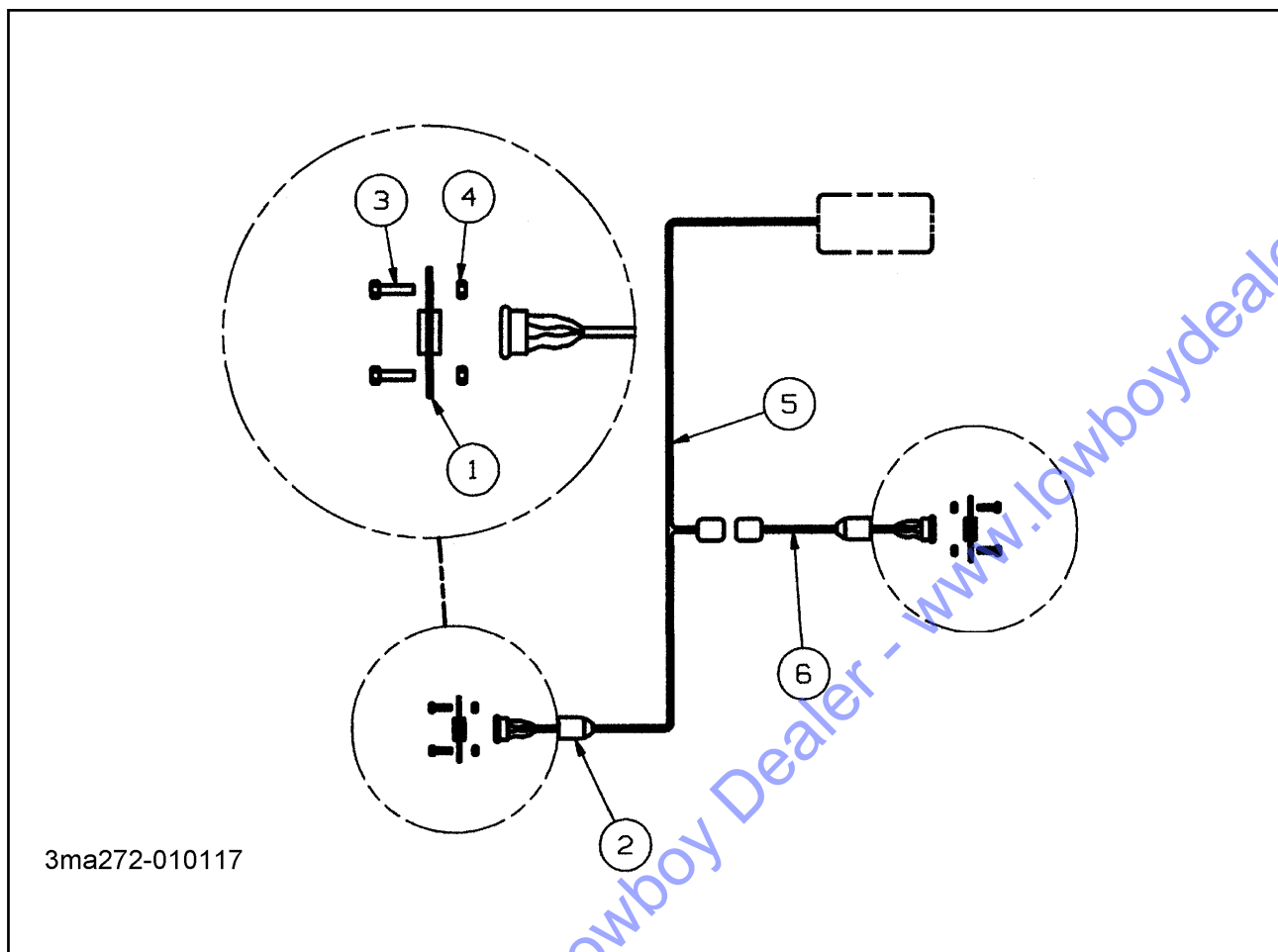


Figure 1-14 Electrical System Rear/Curb Remote

ELECTRICAL SYSTEM REAR/CURB REMOTE

ITEM	PART NO.	DESCRIPTION	QTY.		
	3-272-010117-01	ELECTRICAL REAR REMOTE STREET SIDE	*		
	3-272-010117-02	ELECTRICAL REAR REMOTE STREET & CURB	*		
	112833	CURB SIDE REMOTE OUTLET	*		
1	3-272-010125	RECEPTACLE 7 PIN	1	2	1
2	59W-2-3	RUBBER BOOT	1	2	1
3	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2	4	2
4	1-512-010005-03	NUT, HEX LOCK 5/16-18	2	4	--
	1-512-010007-06	NUT, HEX 5/16	--	--	2
5	3-368-010190	HARNESS, REAR REMOTE	1	1	--
6	3-368-010191	HARNESS, CURB SIDE	--	1	1
7	1-861-010034-10	WASHER, SPLIT LOCK 5/16 (NOT SHOWN)	--	--	2

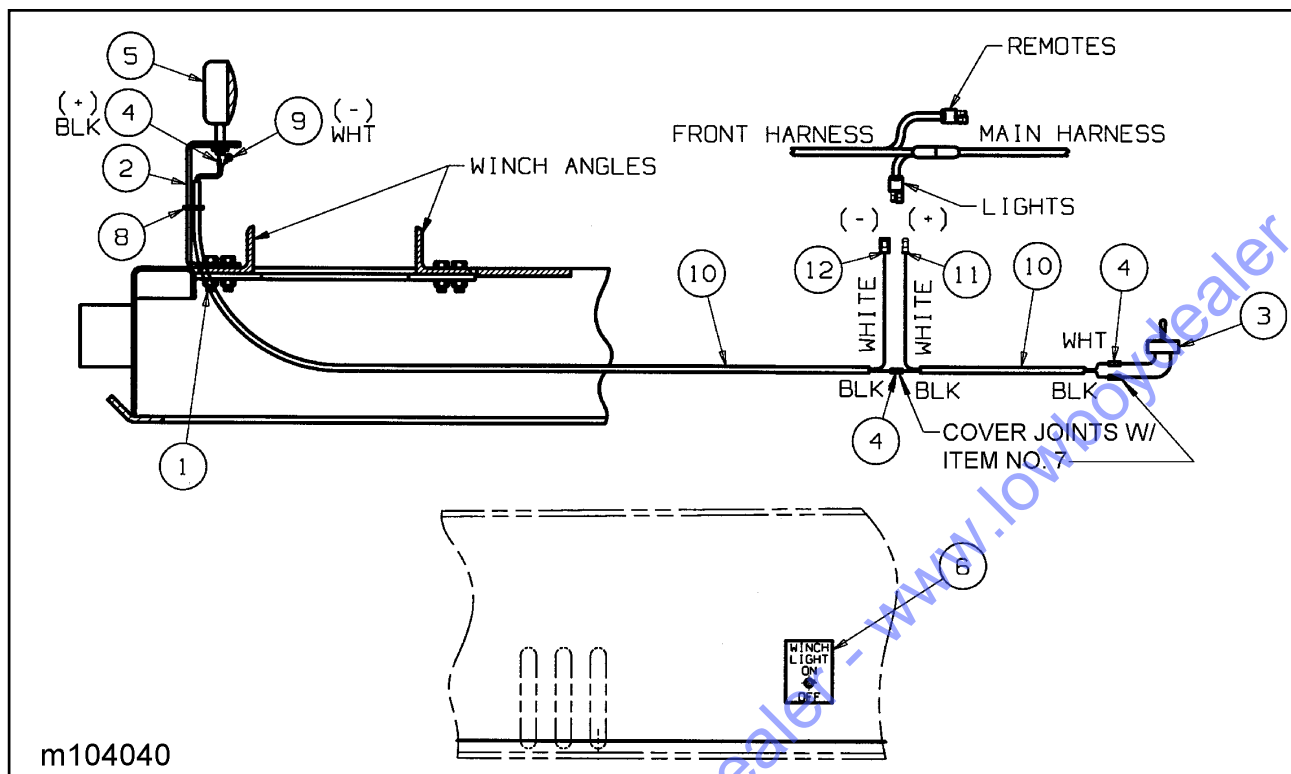
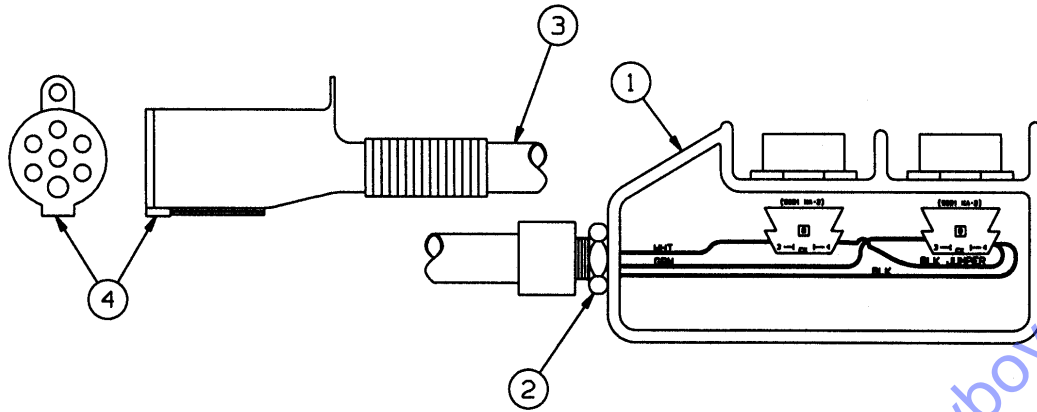


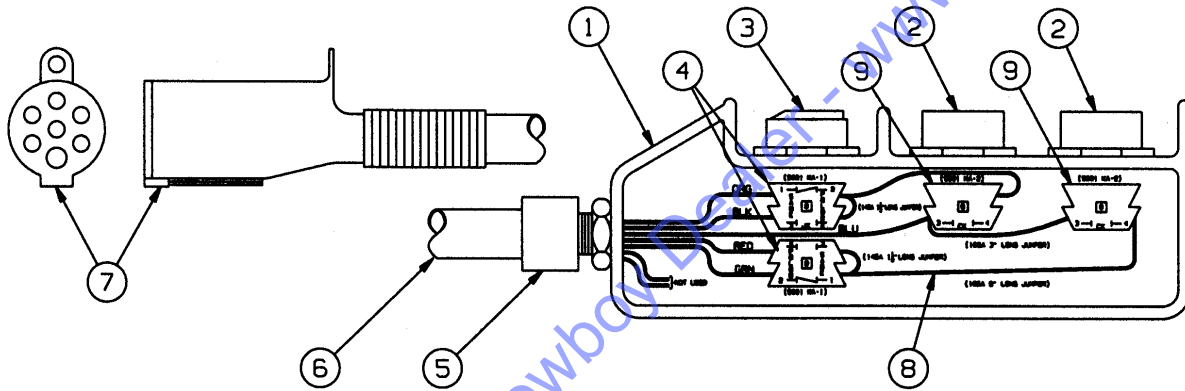
Figure 1-15 Electrical System, Winch Light

ELECTRICAL SYSTEM, WINCH LIGHT

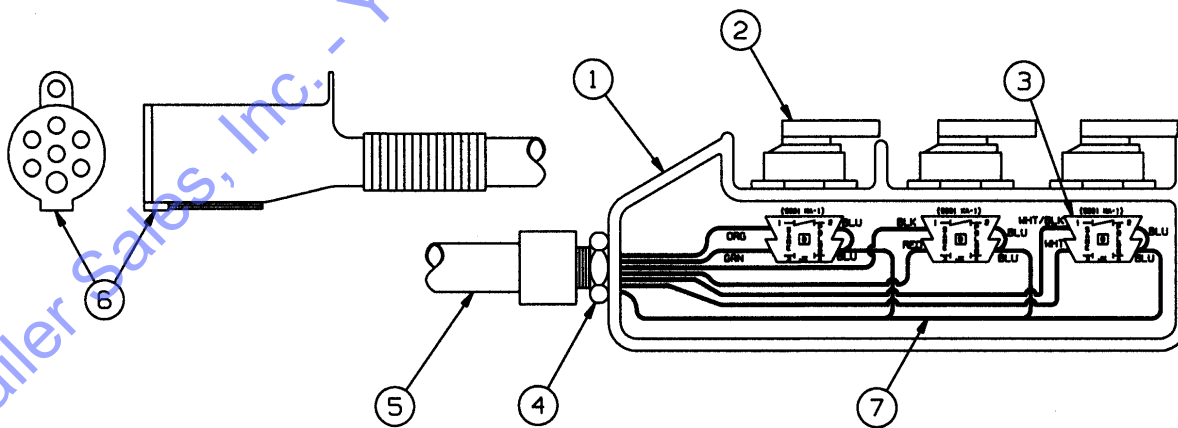
ITEM	PART NO.	DESCRIPTION	QTY.
	104040	ELECTRICAL SYSTEM WINCH LIGHT	
1	1-645-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	2
2	3-120-010485	BRACKET, WINCH LIGHT, UPPER DECK	1
3	3-272-010017	TOGGLE SWITCH	1
4	3-272-010021	ELECT. BUTT SPLICE	4
5	64181	RECT. QUARTZ HALOGEN LAMP	1
6	3-573-010273	DECAL, WINCH LIGHT	1
7	3-201-010002	CONDUIT, 3/8 PLASTIC FLEX	AR
8	1-796-010003-01	TIE STRAP, PLASTIC	5
9	239-3646-7	TERMINAL RING	1
10	3-156-010008	CABLE, TWO CONDUCTOR	AR
11	104043	CONNECTOR, MALE BULLET	1
12	104044	CONNECTOR, FEMALE BULLET	1



SINGLE FUNCTION REMOTE



DUAL FUNCTION REMOTE



TRIPLE FUNCTION REMOTE

3-410-011470-330

Figure 1-16 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
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	1
	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE (DECALS NOT SHOWN) (SEE PAGE 1-69)	1

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 (DECALS NOT SHOWN) (SEE PAGE 1-69)	1

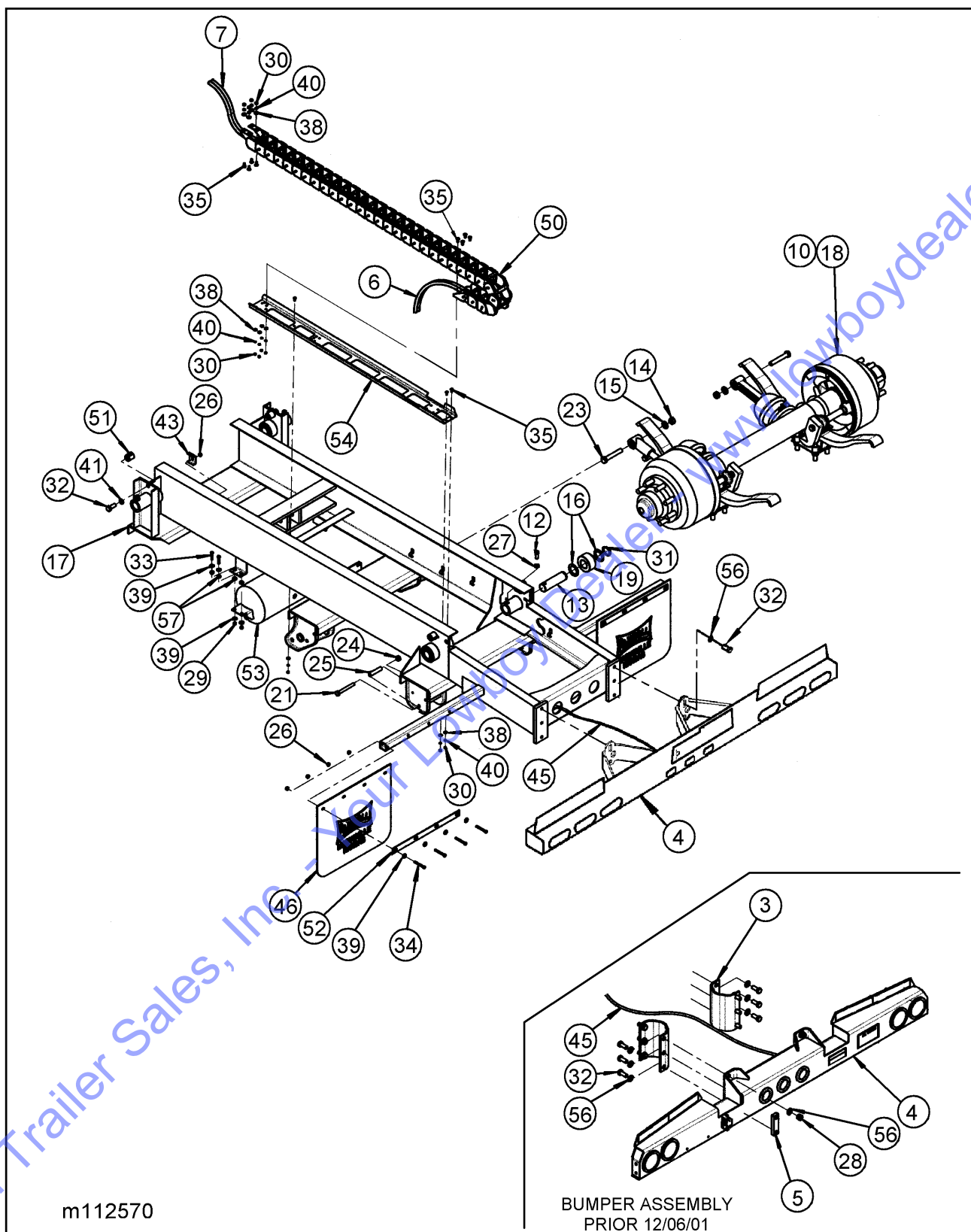


Figure 1-17 Undercarriage Assembly - Spring Ride
Single Axle (1 of 2)

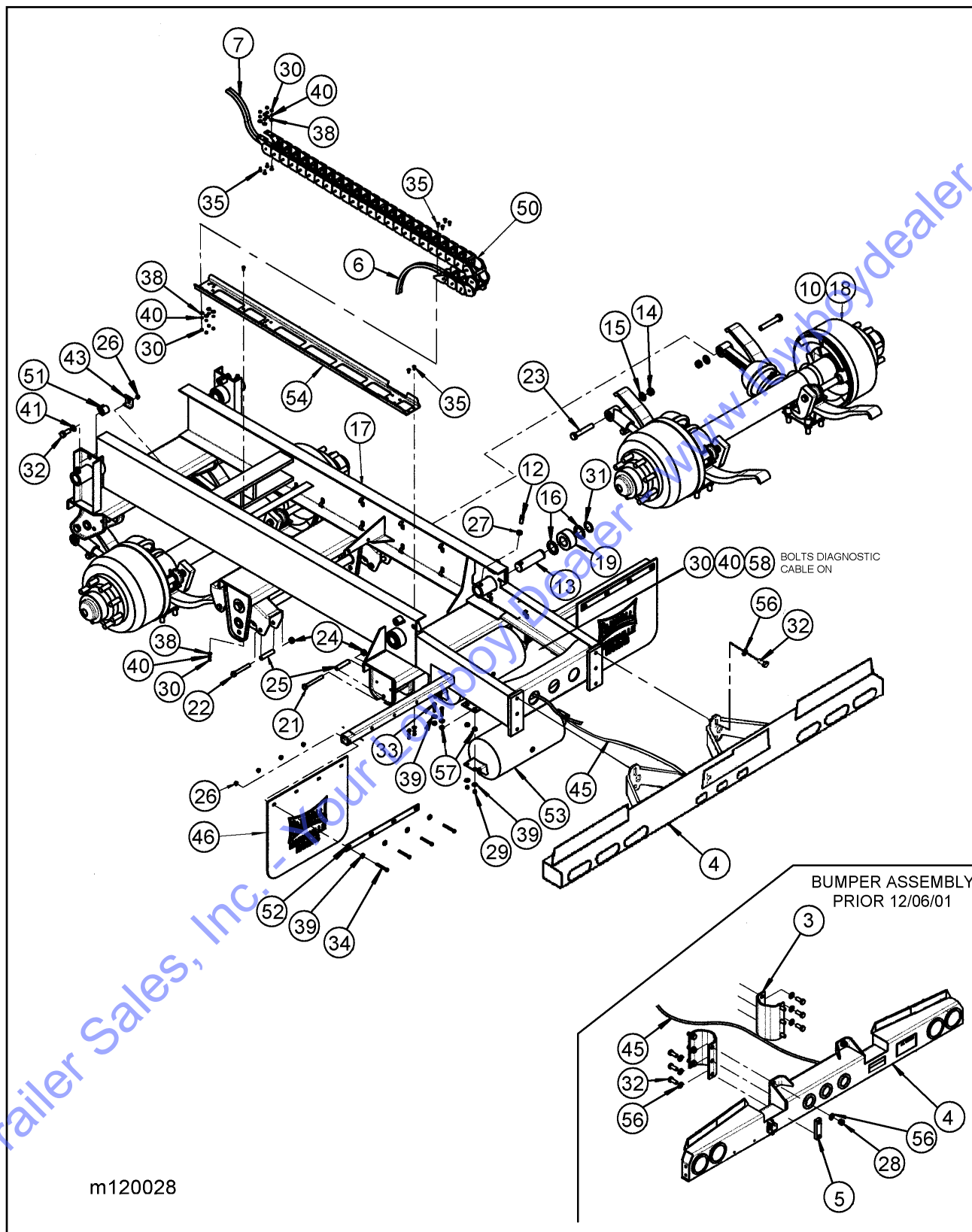


Figure 1-18 Undercarriage Assembly - Spring Ride
Tandem Axle (2 of 2)

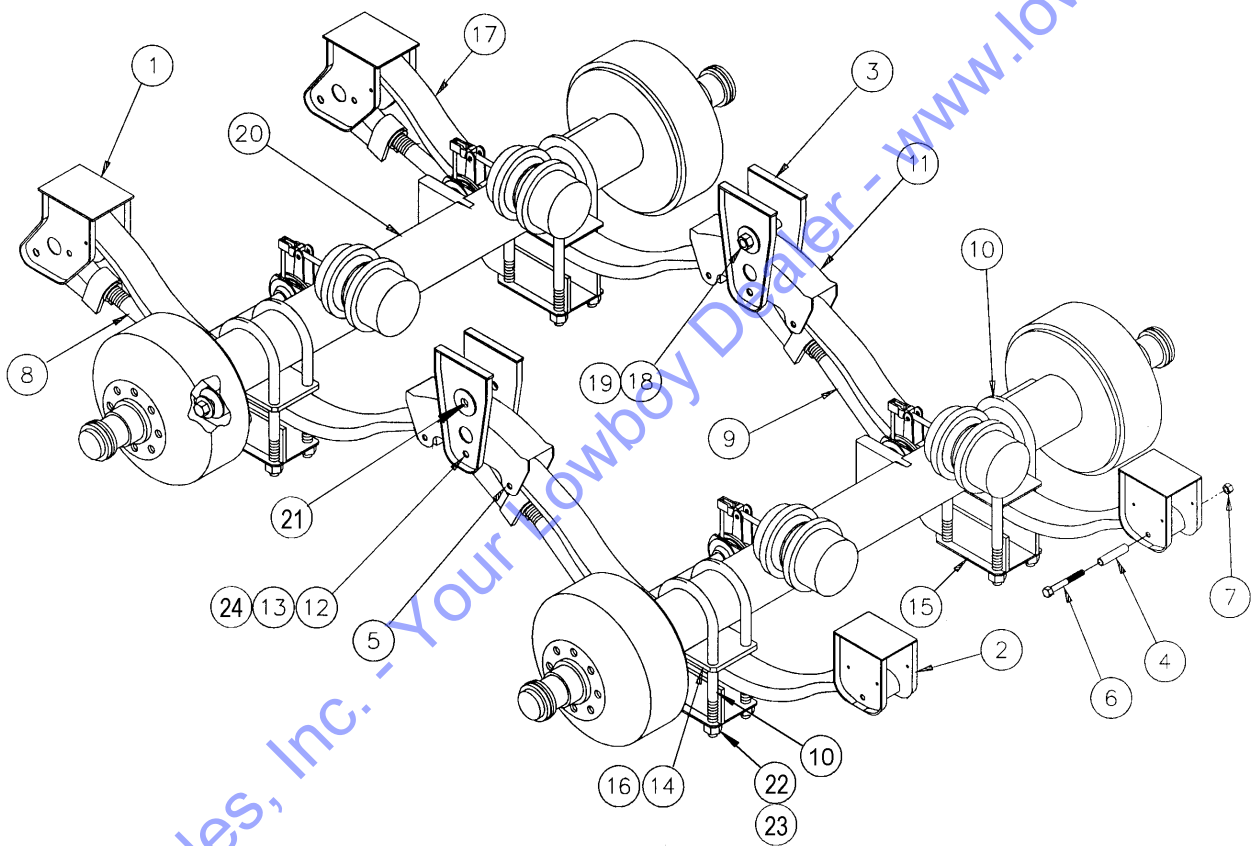
UNDERCARRIAGE ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	112570	SUSPENSION ASSEMBLY S/R (SINGLE AXLE)	
	120028	SUSPENSION ASSEMBLY S/R (TANDEM AXLE)	
3	101143	MOUNT BUMPER ENERGY PAK (PRIOR 12/06/01)	2
4	101712	BUMPER WELDMENT (PRIOR 12/06/01)	1
	119580	BUMPER WELDMENT (AFTER 12/06/01)	1
5	102283	BAR BUMPER E/P TAPPED (PRIOR 12/06/01)	2
6	102728	HARNESS ASSEMBLY UC MAIN	1
7	102836	HARNESS ASSEMBLY E-CHAIN	1
10	107917	BRAKE W ABS 330-1-40 (SEE PAGE 1-41)	1
	103683	BRAKE W/ ABS SINGLE (STD LOAD)(SEE PAGE 1-41)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD)(SEE PAGE 1-41)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD)(SEE PAGE 1-43)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD)(SEE PAGE 1-43)	1
12	108958	SET SCREW, SQ HD CUP POINT 5/8-11 X 1-1/2	4
13	110437	PIN, ROLLER 5"	4
14	110990	LOCKNUT 7/8-14	*2,4
15	110991	WASHER, FLAT HARDENED 7/8	4
16	114562	BUSHING, MACHINERY HARDENED	8
17	112568	SUSPENSION WLDMT 330-1 S/R (NOT SHOWN)	1
	112569	SUSP. WLDMT 330-1S/R DROP DECK (NOT SHOWN)	1
	114528	SUSP. WLDMT 330-1-40 S/R (NOT SHOWN)	1
	114634	SUSP. WLDMT 330-2 S/R	1
	116704	SUSP. WLDMT 330-2 DROP DECK (NOT SHOWN)	1
18	115728	SUSP. ASSY SPRING 330-102 (SEE PAGE 1-29)	1
	115727	SUSP. ASSY SPRING 330-96 (SEE PAGE 1-29)	1
19	116563	ROLLER ASSEMBLY 4" FIBERGLIDE	4
21	0001-02	HEX HEAD CAP SCREW 5/8-18 X 5-1/8	2
22	0001-04	HEX HEAD CAP SCREW 5/8-18 X 4-1/2	*-,4
23	0001-08	TORQUE ARM BOLT 7/8-14 X 5-1/4	*2,4
24	0002-07	LOCKNUT 5/8-18	*2,6
25	0741-01	SPRING ROLLER	*2,6
26	1-510-010001	NUT FLANGE LOCK 3/8-16	10
27	1-511-010001-07	NUT, HEX JAM 5/8-11	4
28	1-512-010002-15	NUT HEX LOCK 3/4-10 GRB SINGLE	2
29	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
30	1-512-010007-05	NUT HEX 1/4-20 GRB	11
31	1-630-010021-02	RING, RETAINING, HEAVY DUTY	4
32	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
33	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	4
34	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16X3 GR5	8
35	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
37	1-796-010004-02	TIE STRAP (NOT SHOWN)	AR
38	1-861-010032-07	WASHER FLAT 1/4	11
39	1-861-010032-11	WASHER FLAT 3/8	*16,24
40	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
41	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
43	2-181-010001	CLAMP	2
45	3-368-010175	WIRE HARNESS (PRIOR 12/06/01)	1
	106652	HARNESS, BUMPER (AFTER 12/06/01)	1
46	3-485-010001	MUD FLAP	2

UNDERCARRIAGE ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
50	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
51	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
52	3-762-010017	CLAMP MUD FLAP	2
53	3-780-010002	TANK AIR	*1,2
54	3-821-010005	TRAY CAT TRACK	1
56	622-3511-008	WASHER 3/4	14
57	805-2	STEP BUSHING	*8,16
58	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20X1 GR5	2

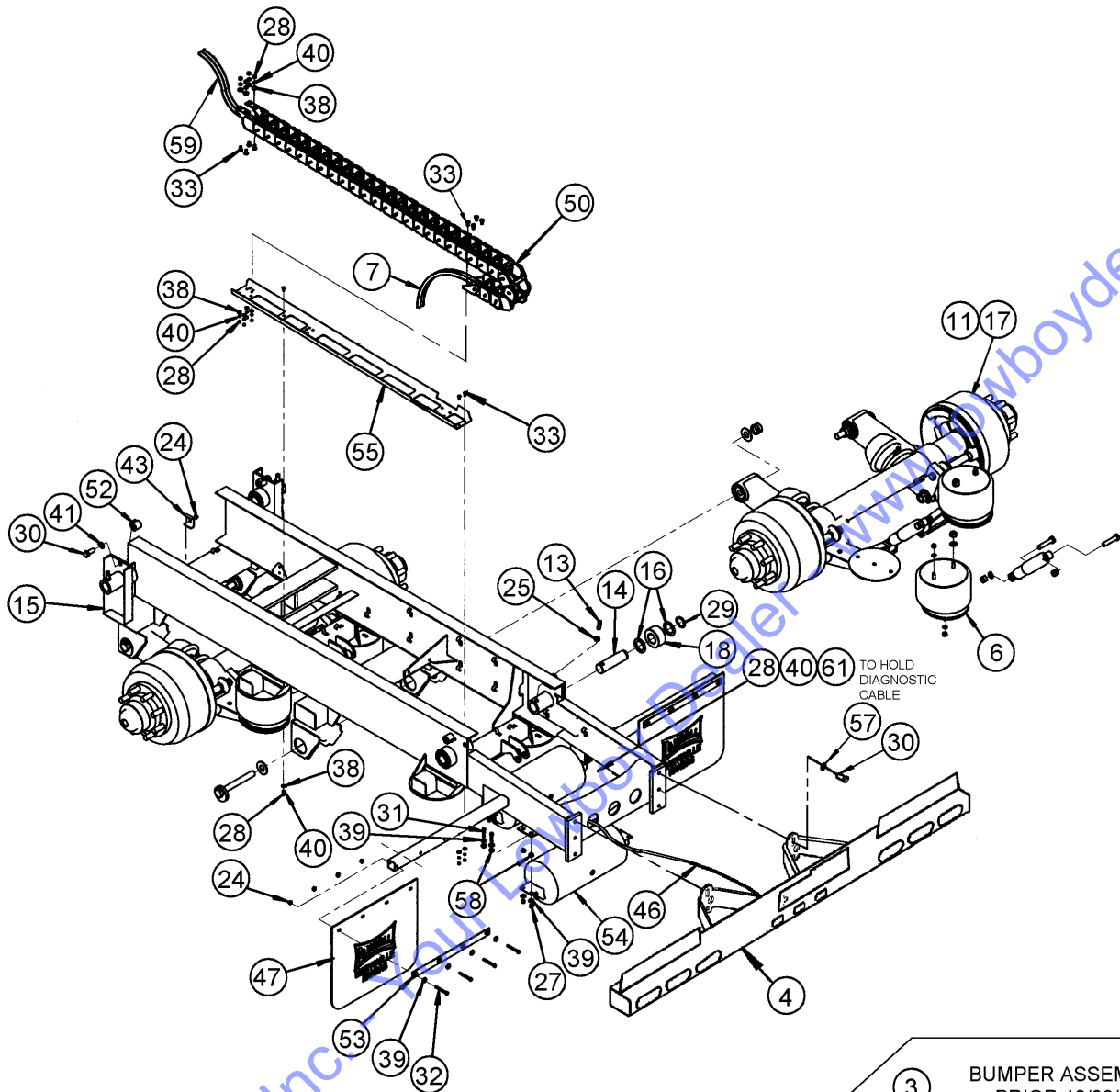
* FIRST QUANTITY IS FOR SINGLE AXLE, SECOND QUANTITY IS FOR TANDEM AXLE.



**Figure 1-19 Single Leaf Spring Suspension
(Tandem Axle Shown)**

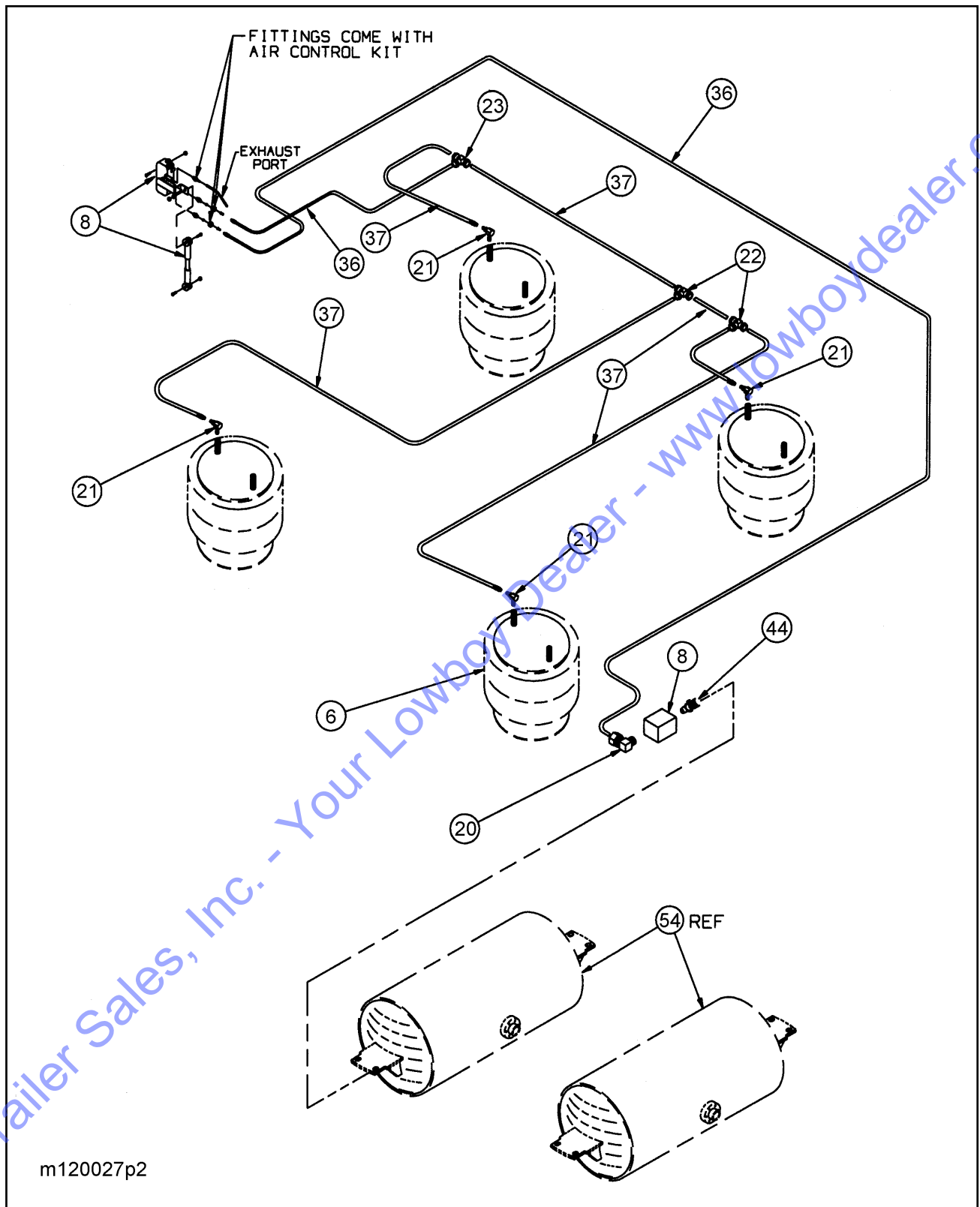
SUSPENSION ASSEMBLY - SPRING RIDE

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115728		SUSPENSION ASSEMBLY SPRING 330-102	
	115727		SUSPENSION ASSEMBLY SPRING 330-96	
1	0049-00	0049-00	HANGER FRONT	2
2	0053-00	0053-00	REAR HANGER UNDERMOUNT	2
3	0065-00	0065-00	HANGER EQUALIZER (TANDEM AXLE ONLY)	2
4	0741-01	0741-01	ROLLER SPRING	2
5	0001-04	0001-04	HEX HEAD CAP SCREW (TANDEM AXLE ONLY)	4
6	0001-02	0001-02	HEX HEAD CAP SCREW	2
7	0002-07	0002-07	LOCK NUT, HEX	2
8	1035-20	1035-20	TORQUE ARM ADJUSTABLE	1
9	0075-20	0075-20	TORQUE ARM RIGID	1
10	0102-13	0102-13	U-BOLT	4
11	0650-00	0650-00	EQUALIZER BEAM ASSEMBLY (TANDEM AXLE ONLY)	2
12	0001-08	0001-08	BOLT TORQUE ARM 7/8-14 X 5-1/4	2
13	0002-12	0002-12	NUT FLANGED LOCKING 7/8-14	2
14	0647-01	0647-01	AXLE SEAT	2
15	0508-00	0508-00	BOTTOM PLATE UNDERSLUNG	2
16	0375-00	0375-00	DELTRIN LINER	2
17	3-720-010030		SPRING MONO LEAF HIGH ARCH	2
18	0001-14	0001-14	EQUALIZER BOLT (TANDEM AXLE ONLY)	2
19	0274-01	0274-01	FLANGED LOCK NUT (TANDEM AXLE ONLY)	2
20	115713		AXLE 69 16.5 X 7 SPG BRK 25K (SEE PAGE 1-38)	1
	115712		AXLE 67.5 16.5 X 7 SPG BRK 25K (SEE PAGE 1-38)	1
21	0649-02	0649-02	EQUALIZER BUSHING (INCL. IN ITEM #11)	2
22	109532	14344-01	LOCKNUT 3/4	8
23	109592	20852-01	WASHER, 3/4	8
24	-----	T7292	WASHER, 7/8	2
	3-432-010006	AX-SPG	KIT AXLE SPRING ATTACHING PARTS (INCLUDES ITEMS 8-10,12-16,22-24)	
	3-432-010010	0651-00	KIT EQUALIZER ASSEMBLY (TANDEM AXLE ONLY) (INCLUDES ITEMS 3,11,18-19,21)	



m120027

**Figure 1-20 Undercarriage Assembly - Air Ride
(Tandem)**



m120027p2

Figure 1-21 Air Ride Suspension System (Tandem)

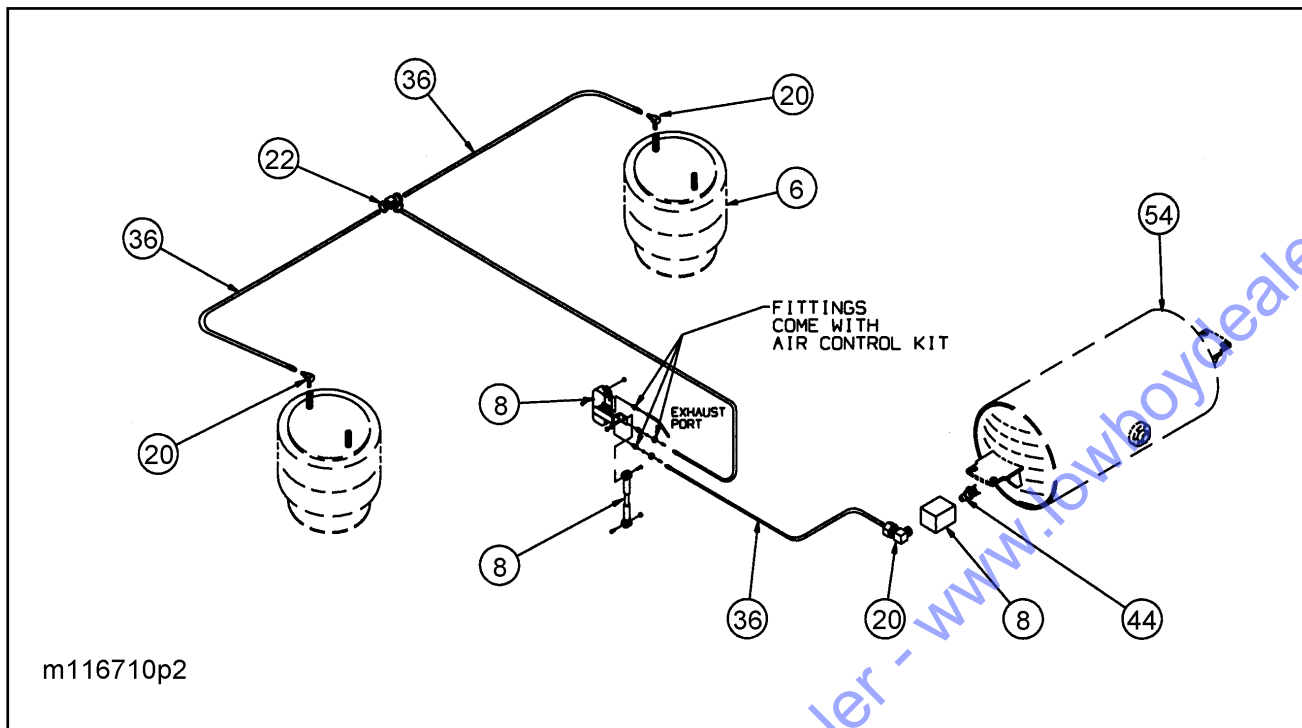


Figure 1-22 Air Ride Suspension System (Single)

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	116710	SUSP ASSEMBLY A/R SINGLE	
	120027	SUSP ASSEMBLY A/R TANDEM	
3	101143	MOUNT BUMPER ENERGY PAK (PRIOR 12/06/01)	2
4	101712	BUMPER WELDMENT (PRIOR 12/06/01)	1
	119580	BUMPER WELDMENT (AFTER 12/06/01)	1
5	102283	BAR BUMPER E/P TAPPED (PRIOR 12/06/01)	2
6	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-37)	1
7	102728	HARNESS ASSEMBLY E-CHAIN	1
8	102732	AIR CONTROL SYSTEM (SEE PAGE 1-35)	1
11	103683	BRAKE W/ ABS SINGLE (STD LOAD) (SEE PAGE 1-41)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD) (SEE PAGE 1-41)	1
	107917	BRAKE W/ ABS 330-1-40 (SEE PAGE 1-41)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD) (SEE PAGE 1-43)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD) (SEE PAGE 1-43)	1
13	108958	SET SCREW SQ HD CUP POINT 5/8-11 X 1-1/2	4
14	110437	PIN, ROLLER 5"	4
15	116702	SUSP. WLDMT. A/R 330-1	1
	113973	SUSP. WLDMT. A/R 330-1 DROP DECK	1
	116742	SUSP. WLDMT. A/R 330-1-40	1
	114543	SUSP. WLDMT. A/R 330-2	1
	116703	SUSP. WLDMT. A/R 330-2 DROP DECK	1
16	114562	BUSHING, MACHINERY HARDENED	8
17	115738	AXLE WELDMENT A/R 2516-SPG-69	1
	115737	AXLE WELDMENT A/R 2516-SPG-67.5	1
(FOR PARTS BREAKDOWNS, SEE PAGES 1-37 AND 1-38)			

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
18	116563	ROLLER ASSEMBLY 4" FIBERGLIDE	4
20	1-297-010008-07	FITTING AIR 90	*3,1
21	1-297-010008-18	FITTING AIR 90 (TANDEM AXLE)	4
22	1-297-010010-01	FITTING AIR UNION TEE (SINGLE AXLE)	1
	1-297-010010-03	FITTING AIR UNION TEE (TANDEM AXLE)	2
23	1-297-010010-04	FITTING AIR UNION TEE 3/8X3/8X1/4 (TANDEM AXLE)	1
24	1-510-010001	NUT FLANGE LOCK 3/8-16	10
25	1-511-010001-07	NUT, HEX JAM 5/8-11	4
26	1-512-010002-15	NUT, HEX LOCK 3/4-10	2
27	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
28	1-512-010007-05	NUT HEX 1/4-20 GRB	11
29	1-630-010021-02	RING, RETAINING HEAVY DUTY	4
30	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
31	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	*4,8
32	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16 GR5	8
33	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
35	1-796-010004-02	TIE, STRAP (NOT SHOWN)	6
36	1-833-010001	TUBING NYLON 1/4 OD	*8,11
37	1-833-010002	TUBING NYLON (TANDEM AXLE)	1
38	1-861-010032-07	WASHER FLAT 1/4	11
39	1-861-010032-11	WASHER FLAT 3/8	*16,24
40	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
41	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
43	2-181-010001	CLAMP	2
44	2083-8-4S	NIPPLE HEX	1
46	3-368-010175	WIRE HARNESS (PRIOR 12/06/01)	1
	106652	HARNESS, BUMPER (AFTER 12/06/01)	1
47	3-485-010001	MUD FLAP	2
50	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
52	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
53	3-762-010017	CLAMP MUD FLAP	2
54	3-780-010002	TANK AIR	*1,2
55	3-821-010005	TRAY CAT TRACK	1
57	622-3511-008	WASHER 3/4	14
58	805-2	STEP BUSHING	*8,16
59	102836	HARNESS ASSEMBLY E-CHAIN	1
61	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2

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

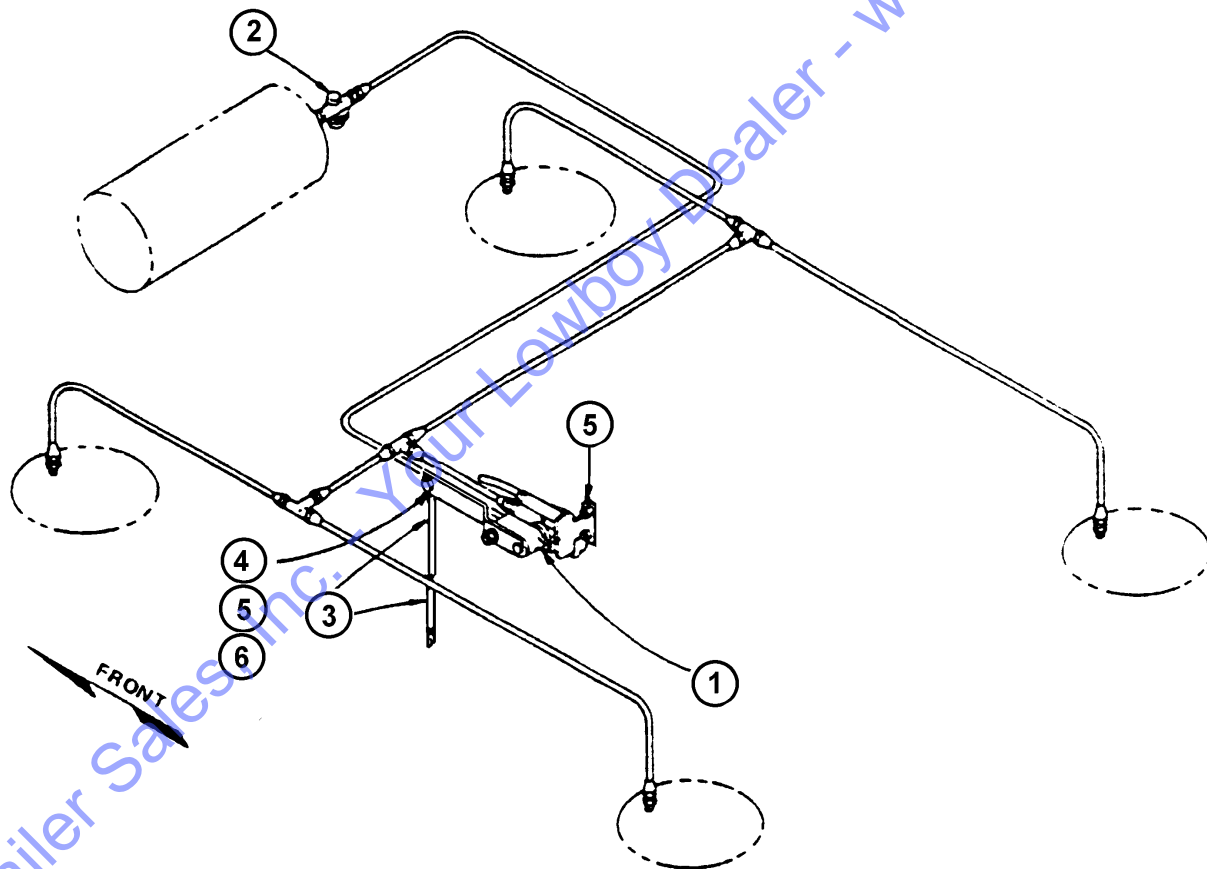
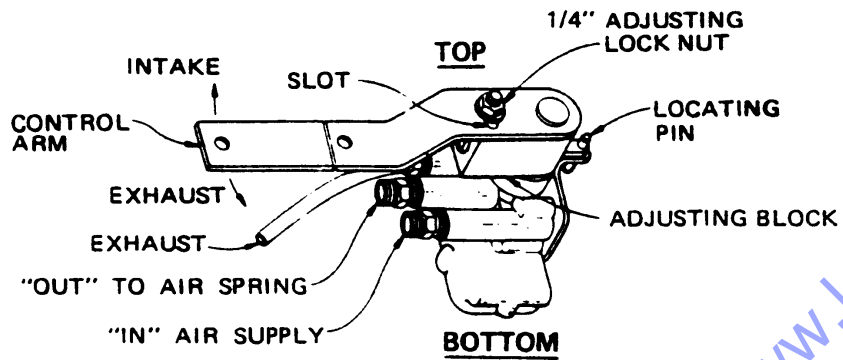
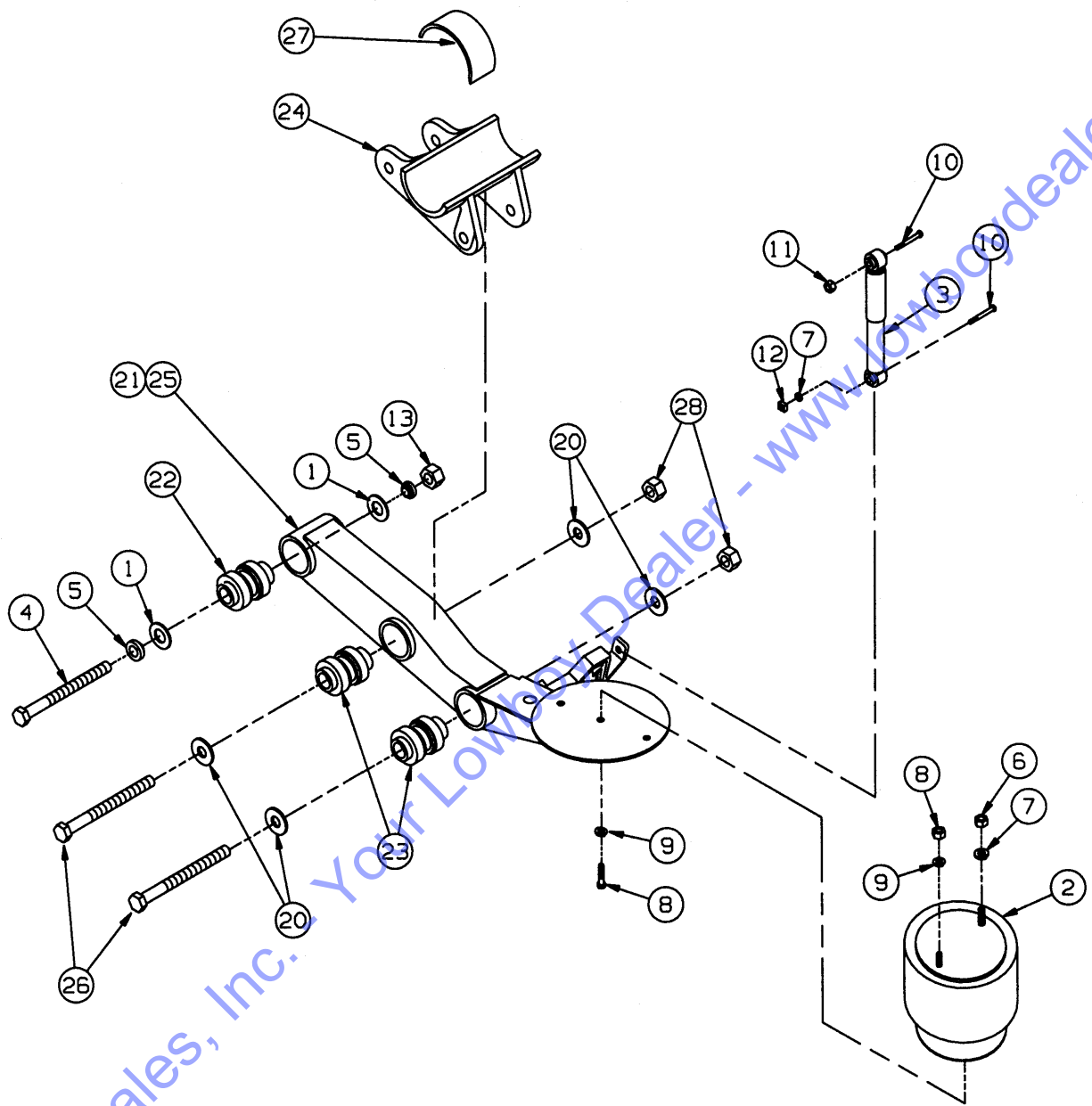


Figure 1-23 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	900 54 107	AIR PRESSURE VALVE & FILTER	1
3	111021	SRK - 167 KIT (ADJ. LINK ASSY)	1
4	1-654-010047-04	CAP SCREW 1/4-20 X 3/4	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	941 00 119	DECAL (OPERATING)	1
7	941 00 466	HEIGHT CONTROL VALVE INSTRUCTIONS	1



762mo102361

Figure 1-24 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	111010	FLAT WASHER	2
2	111020	AIR SPRING ASSEMBLY	2
3	90045040	SHOCK	2
4	111006	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	111007	ALIGN BLOCK	2
6	93400149	3/4-16 HEX NUT GRB	2
7	93600077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	NUT, HEX 1/2-13	4
9	1-816-010034-13	WASHER, SPLIT LOCK 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	93400492	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
	111019	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	90008139	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.

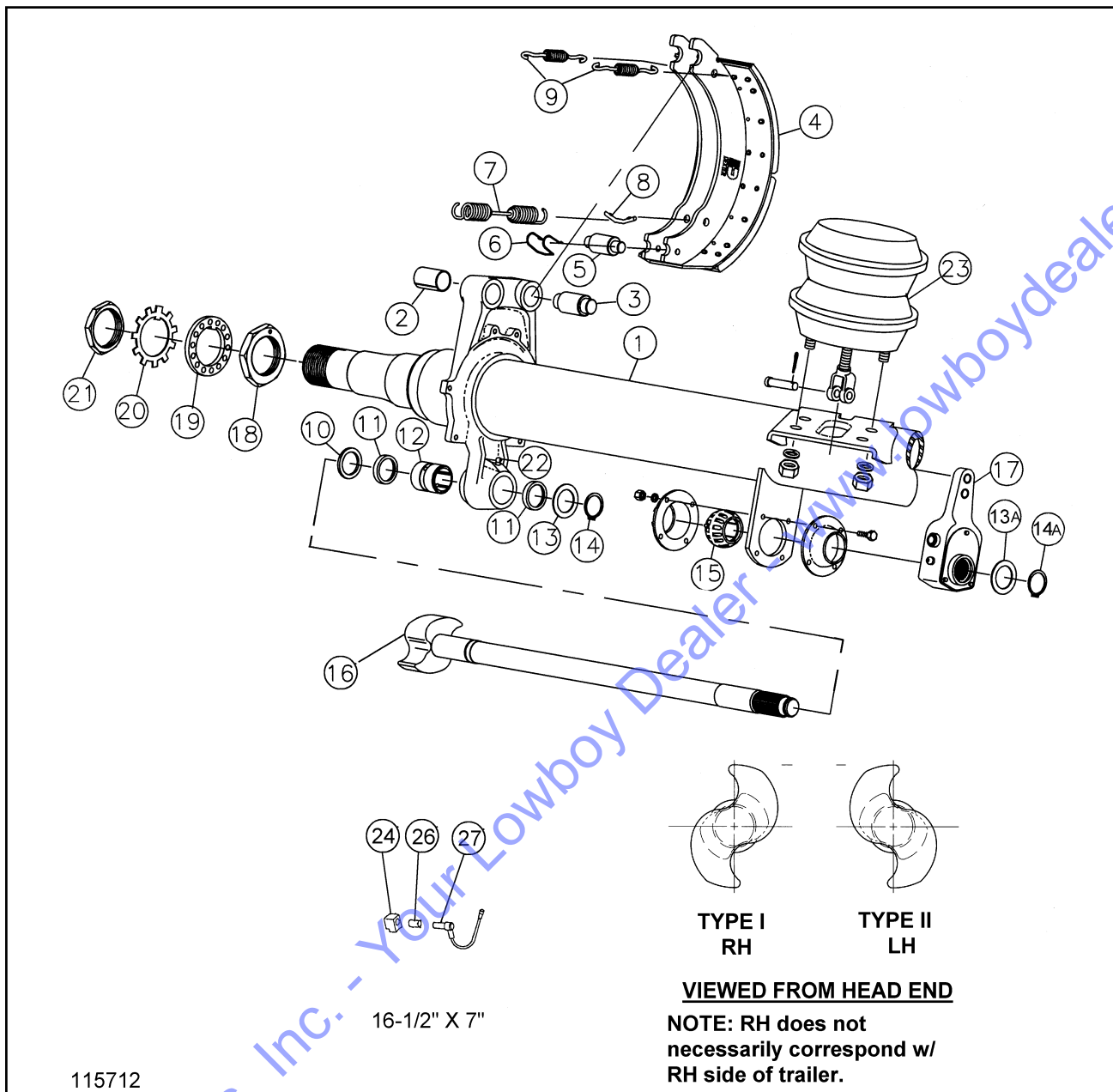


Figure 1-25 Axle and Brake Items

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
	115712	AXLE 67.5, 16.5 X 7 SPG BRK 25K	
	115713	AXLE 69, 16.5 X 7 SPG BRK 25K	
1*	D-2H16	BEAM W/ BRACKETS	1
	**K71-136-00	BRAKE SHOE HDWR KIT (ITEMS 2, 3, 5, 6, 7, 8, & 9)	
2**	014-068-00	BUSHING ANCHOR PIN	4
3**	056-017-00	PIN ANCHOR	4

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
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
	***K71-135-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
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	034-192-05	CAMSHAFT LH 22-5/8 (69 TRACK)	1
	034-193-05	CAMSHAFT RH 22-5/8 (69 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
17	055-040-06	SLACK ADJUST, AUTOMATIC	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	034-058-01	AIR CHAMBER, SPRING BRAKE	4
24	024-100-00	SENSOR BLOCK	2
26	097-002-00	RETAINER CLIP	2
27	097-003-00	ABS SENSOR, 90	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 LISTED.

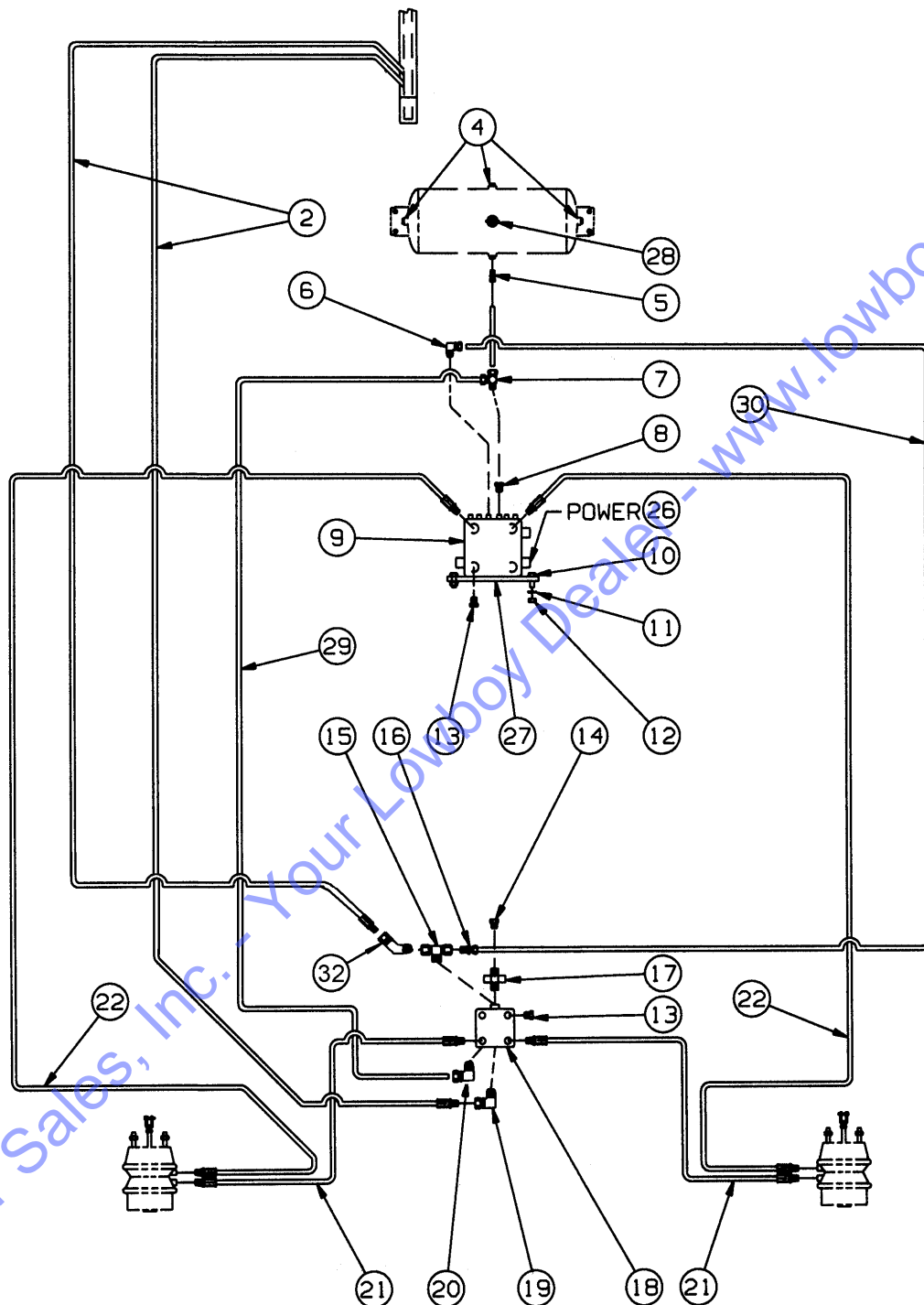
*** THESE PARTS ARE AVAILABLE AS PART OF CAMSHAFT REPAIR KIT P/N LISTED.

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 1-47.

AXLE AND BRAKE ITEMS (KIC/SUDISA) (USED 02/01 TO 05/01)

		BRAKE SHOES AND HARDWARE FOR ONE AXLE	
	123183	BRAKE REPAIR KIT, 16.5 X 7 KIC/SUDISA	
	123185	CAMSHAFT BEARING REPAIR KIT 16.5 X 7 BRAKES	
	123192	CAMSHAFT 16.5 X 7 BRAKES, 69 TRACK RH	
	123193	CAMSHAFT 16.5 X 7 BRAKES, 69 TRACK LH	
	055-040-07	AUTO. SLACK ADJUSTER STRAIGHT 16.5 X 7 BRAKE	

* IF UNSURE ON AXLE BRAND, CONTACT LANDOLL PDC TO VERIFY



128ma103683

Figure 1-26 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)	
	107917	BRAKE W/ ABS 330-1-40	
2	103698	HOSE AIR 3/8 X 182 (STD LOAD)	2
	103699	HOSE AIR 3/8 X 230 (LOW LOAD)	2
	1-384-0100381120	HOSE AIR 3/8 X 120 (330-1-40)	
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	114585	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-45)	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
26	3-272-010021	ELECTRICAL BUTT SPLICE	4
27	1-560-010002-05	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
32	2088-6-6S	ADAPTER 45	1

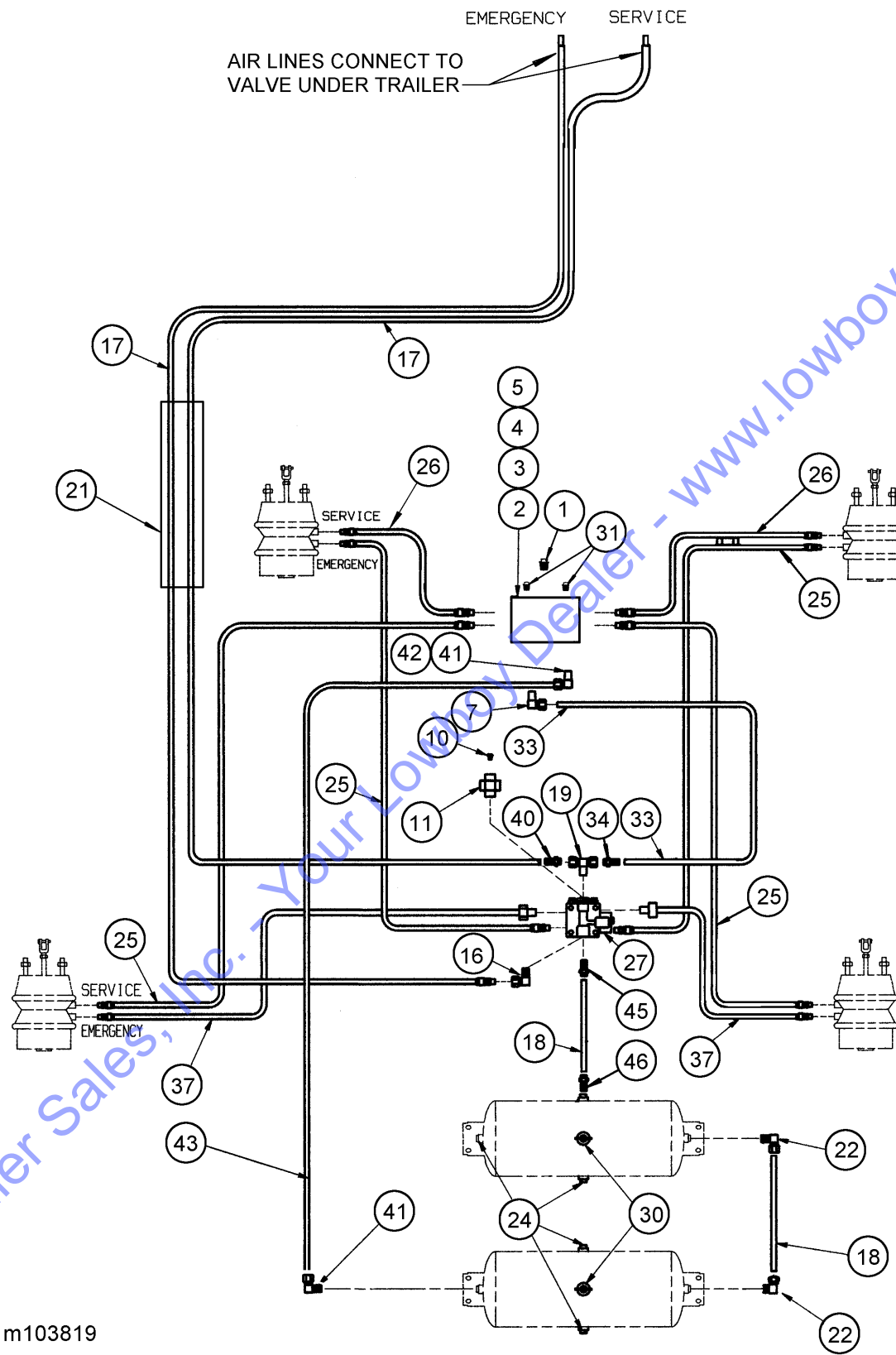
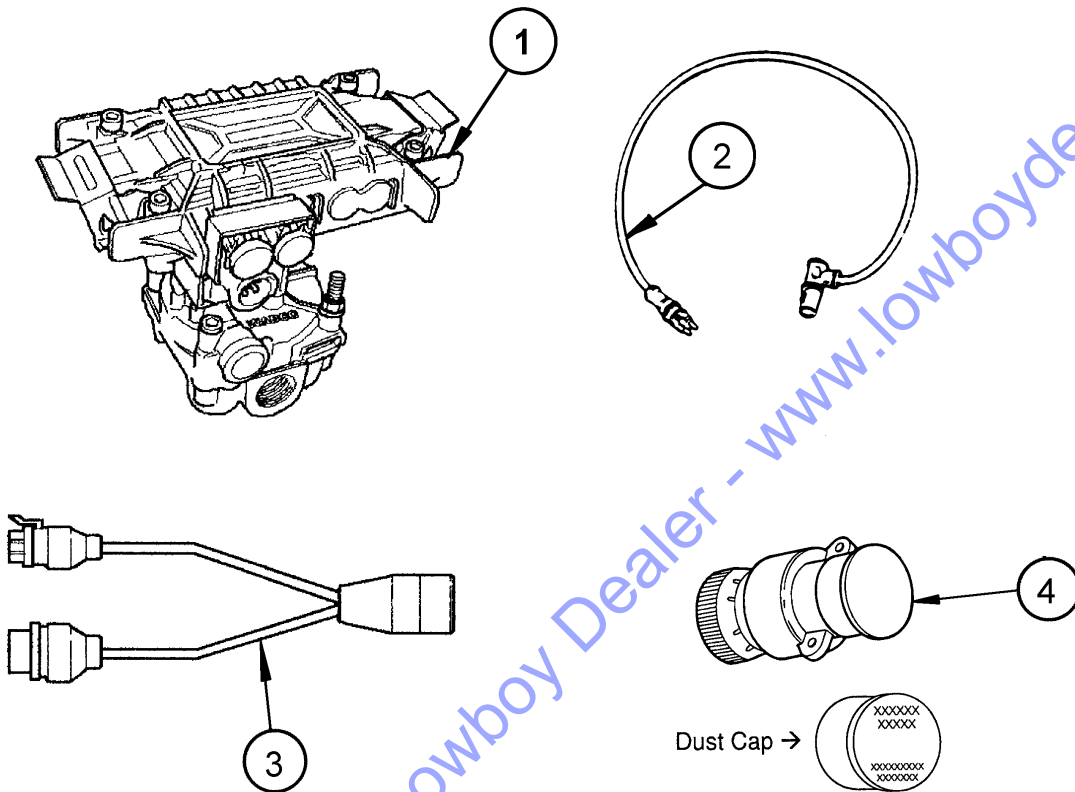


Figure 1-27 Air Brake System, Tandem Axle

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	4
4	1-512-0120005-05	NUT HEX LOCK 3/8-16 GR5	2
5	114584	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-42)	1
7	1-297-010008-18	FITTING AIR 90	1
10	1-560-010002-02	PLUG PIPE 1/4	1
11	55B61	FRAME UNION	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	AR
19	1-297-010017-03	FITTING BRASS PIPE M/ BRASS TEE	1
21	3-755-010189-03	SUPPORT E-CHAIN (STD LOAD)	REF
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD)	REF
22	1-297-010008-24	FITTING AIR 90	2
24	1-560-010002-04	PLUG PIPE 1/2	4
25	1-384-010038056	HOSE AIR 3/8 X 56	4
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
30	56D4	COCK DRAIN AIR TANK	2
31	1-297-010033-03	FITTING	2
33	1-833-010002	TUBING NYLON 3/8	AR
34	1-297-010007-12	FITTING, AIR	1
35	3-272-010022	ELECTRICAL BUTT SPLICE (NOT SHOWN)	4
37	1-384-010038024	HOSE AIR 3/8 X 24	2
39	1-796-010003-01	TIE STRAP PLASTIC (NOT SHOWN)	10
40	2088-6-6S	ADAPTER 45	1
41	1-297-010008-26	FITTING, AIR 90	2
42	118-2659-9	BUSHING	1
43	117304	NYLON TUBING 5/8	AR
45	1-297-010007-15	FITTING, AIR 1/2 TUBE X 3/8 NPT	1
46	1-297-010007-16	FITTING, AIR 1/2 TUBE X 1/2 NPT	1



**If the Warning Lamp
Comes ON and Stays ON
When You Apply the Brakes
to a Moving Vehicle
SERVICE THE
ABS**
Rockwell WABCO

114584-101421

Figure 1-28 Brake Kit, Meritor WABCO (Rockwell) ABS

BRAKE KIT, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	BRAKE KIT, ROCKWELL ABS, 4S/2M (TANDEM AXLE)	
	114585	BRAKE KIT, ROCKWELL ABS, 2S/1M (SINGLE AXLE)	
1	114588	ECU/VALVE ASSEMBLY 4S/2M PREMIUM (114584)	1
	114589	ECU/VALVE ASSEMBLY 2S/1M (114585)	1
2	101848	SENSOR EXTENSION CABLE	4,2*
3	114590	POWER/DIAGNOSTIC CABLE	4
4	101851	DIAGNOSTIC SWITCH	1
5	101855	WARNING LAMP LABEL	1
6	114587	MAINTENANCE MANUAL MM-180 (NOT SHOWN)	1

* THE FIRST QUANTITY LISTED IS FOR P/N 114584. THE SECOND QUANTITY LISTED IS FOR P/N 114585.

HUBOABS2.DWG

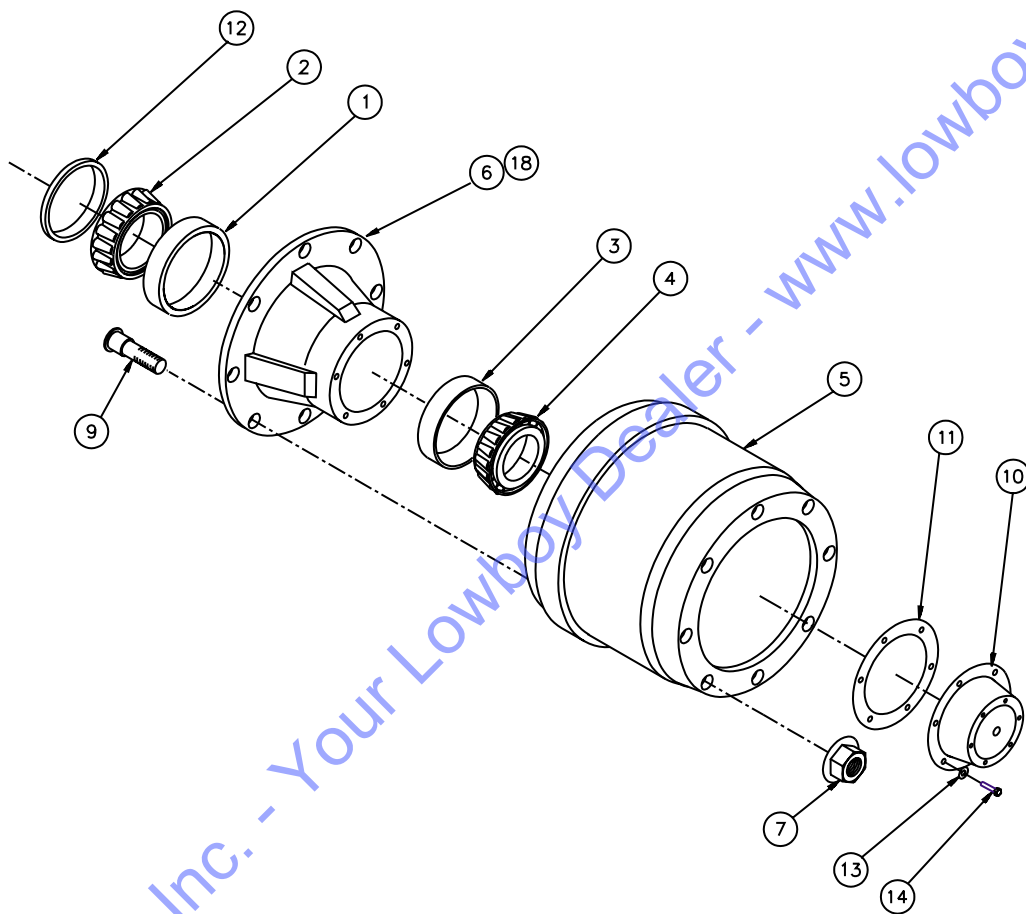


Figure 1-29 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	103783	HUB/DRUM 10 BOLT 16-1/2 PILOT ABS 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	110976(66884)	OUTBOARD MOUNTED BRAKE DRUM	1
6	110975(2023----T)	HUB IRON	1
7	179933	FLANGE NUT	10
9	101160	STUD	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 5/16-18X3/4 GR5	6
15	3-870-010110	WHEEL DISC PILOT MOUNT 22.5 X 8.25	1
	111416	WHEEL ALUM, PILOT MOUNT 22.5 X 8.25	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	TR545D	VALVE STEM (NOT SHOWN)	1
18	*	ABS TONE RING	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE HUB. IT IS NOT SOLD SEPARATELY.

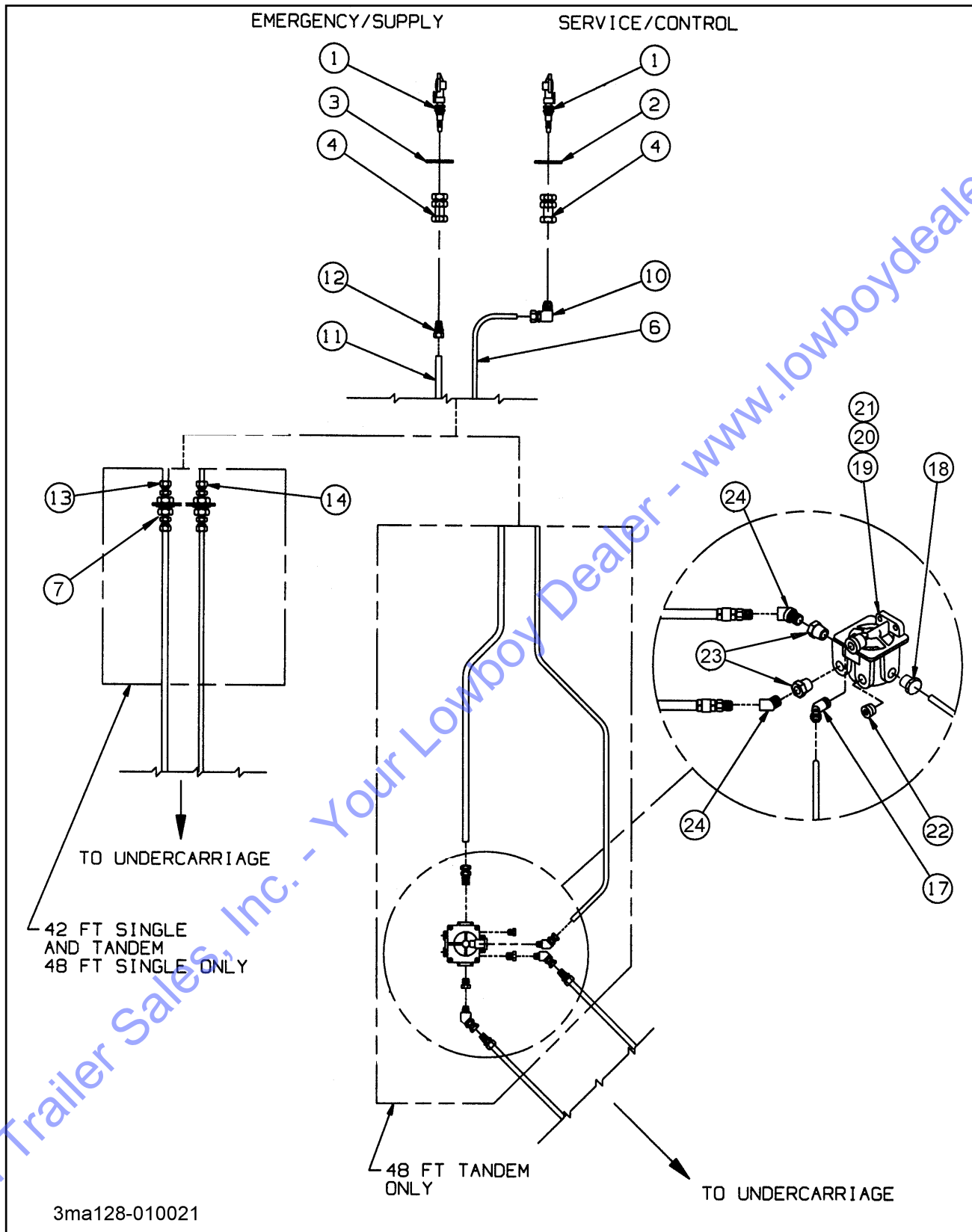


Figure 1-30 Air System

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	108801	GLADHAND RED AIR	1
	108802	GLADHAND BLUE AIR	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
7	1-297-010022-03	FITTING, AIR	2
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
13	1-297-010007-12	FITTING, AIR (42' & 48' SINGLE ONLY)	1
14	1-297-010007-15	FITTING, AIR (42' & 48' SINGLE 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

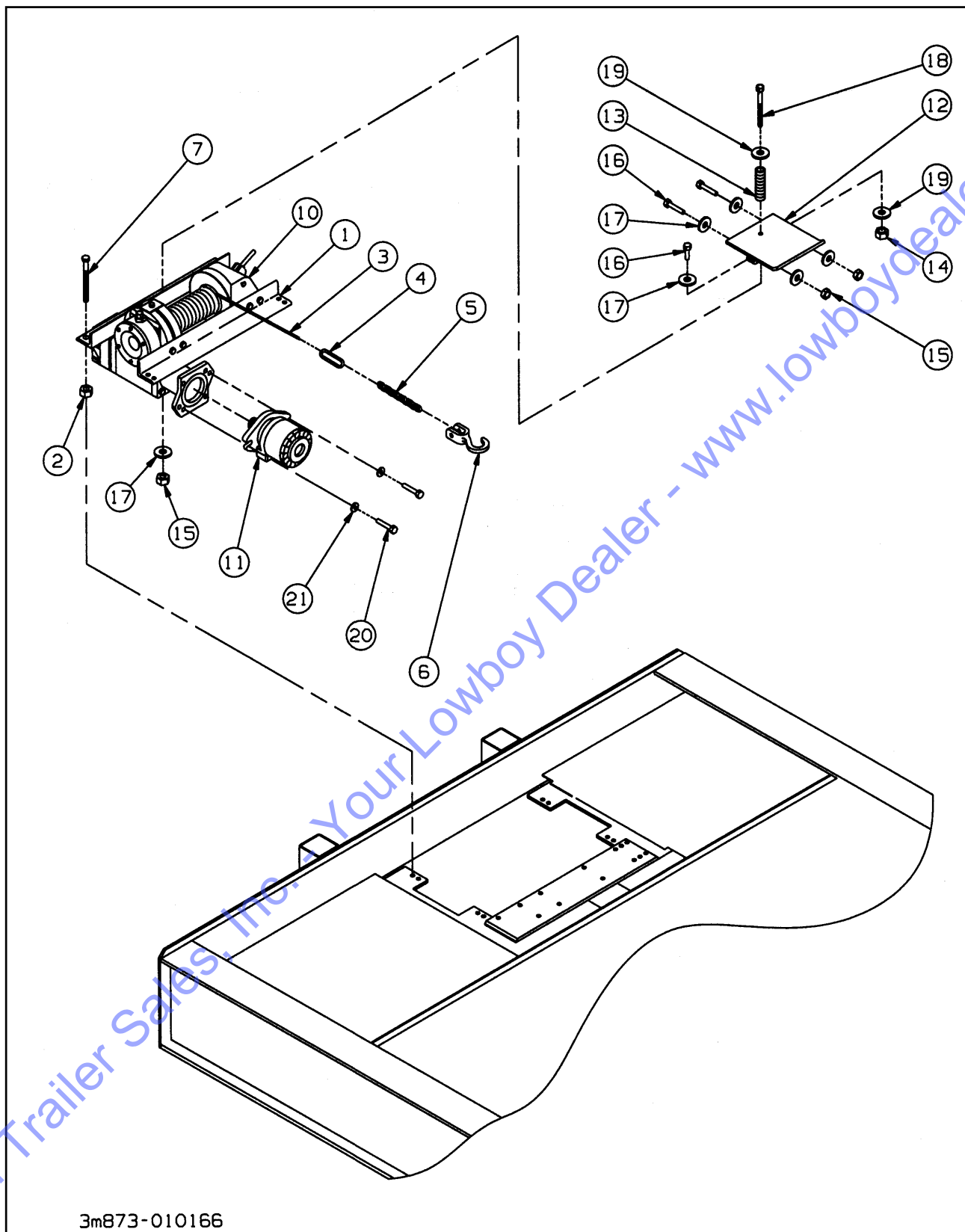


Figure 1-31 Winch Installation

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)	REF
9	1-510-010001	NUT FLANGE LOCK 3/8-16 (NOT SHOWN)	REF
10	3-873-010122	WINCH WORM GEAR 12K (SEE PAGE 1-53)	1
	3-873-010123	WINCH WORM GEAR 20K (SEE PAGE 1-54)	1
11	3-481-010006	MOTOR HYDRAULIC 12K (SEE PAGE 1-66)	1
	3-481-010007	MOTOR HYDRAULIC 20K (SEE PAGE 1-66)	1
12	3-873-010124	WINCH TENSIONER WLDMT 12K	1
	102186	WINCH TENSIONER WLDMT 20K	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

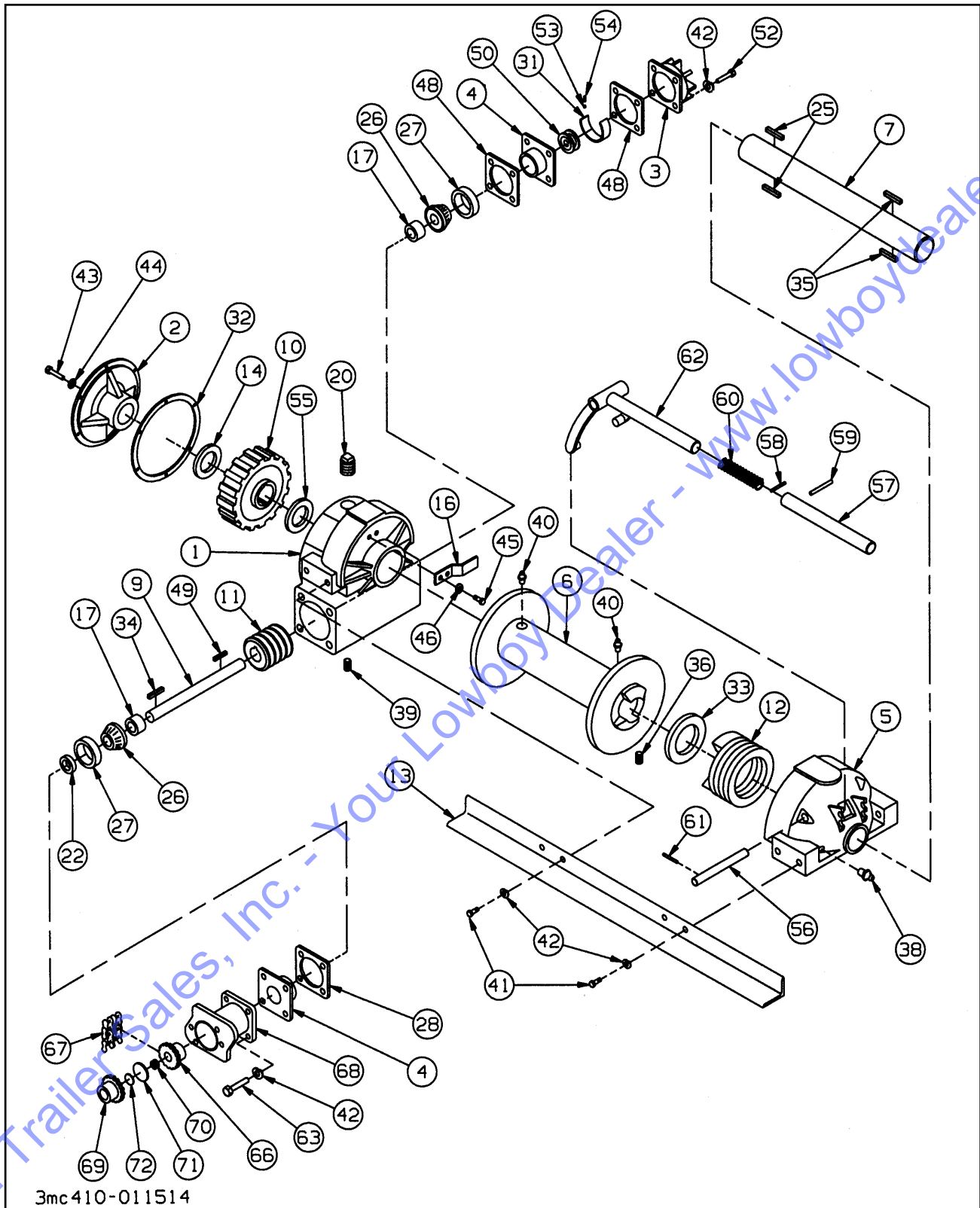


Figure 1-32 12,000# Winch Assembly

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	ROLL PIN	1
59	13028	ROLL PIN	1
60	18002	SPRING	1
61	11837	ROLL PIN	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

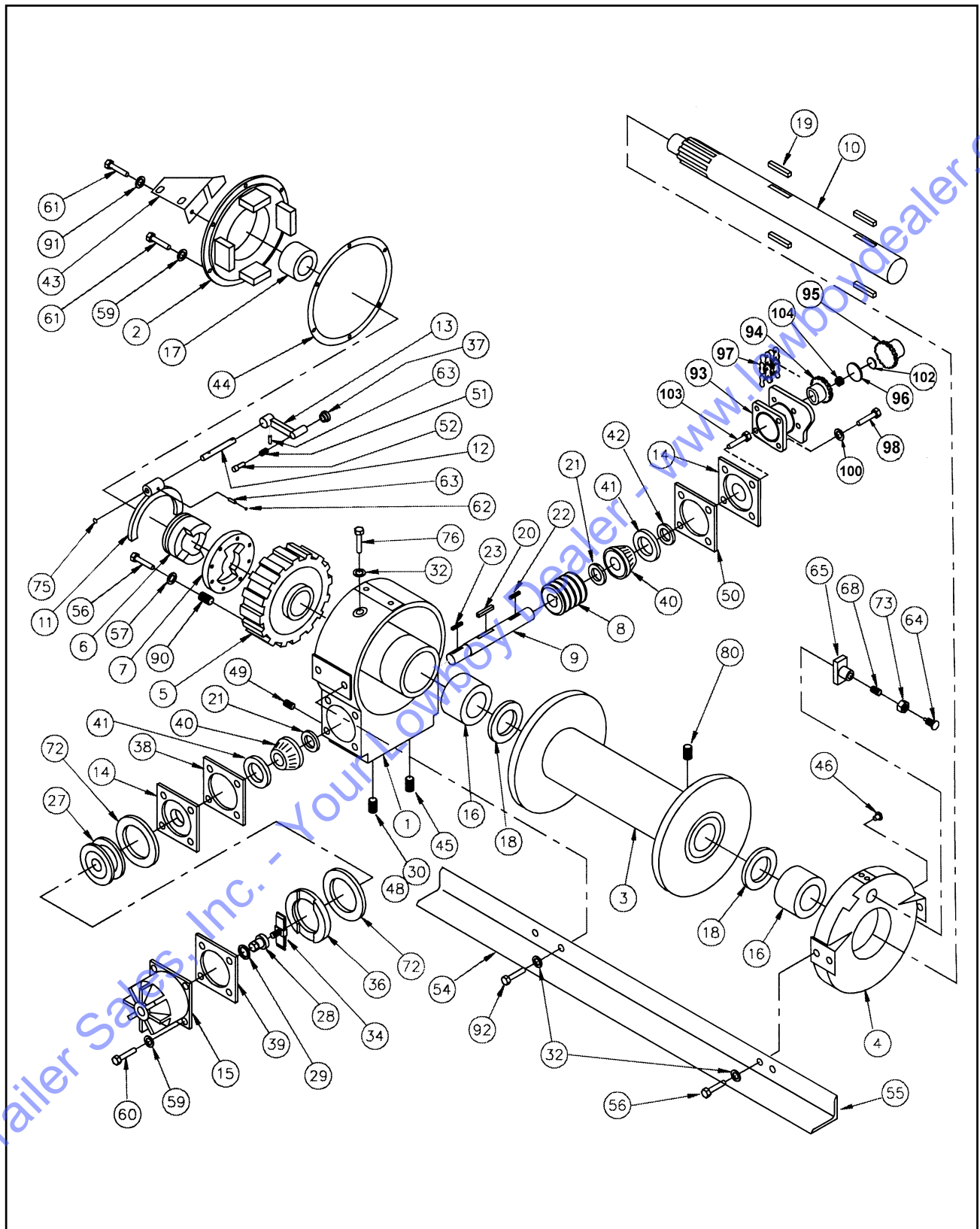


Figure 1-33 20,000# Winch Assembly

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	ROLL PIN	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).

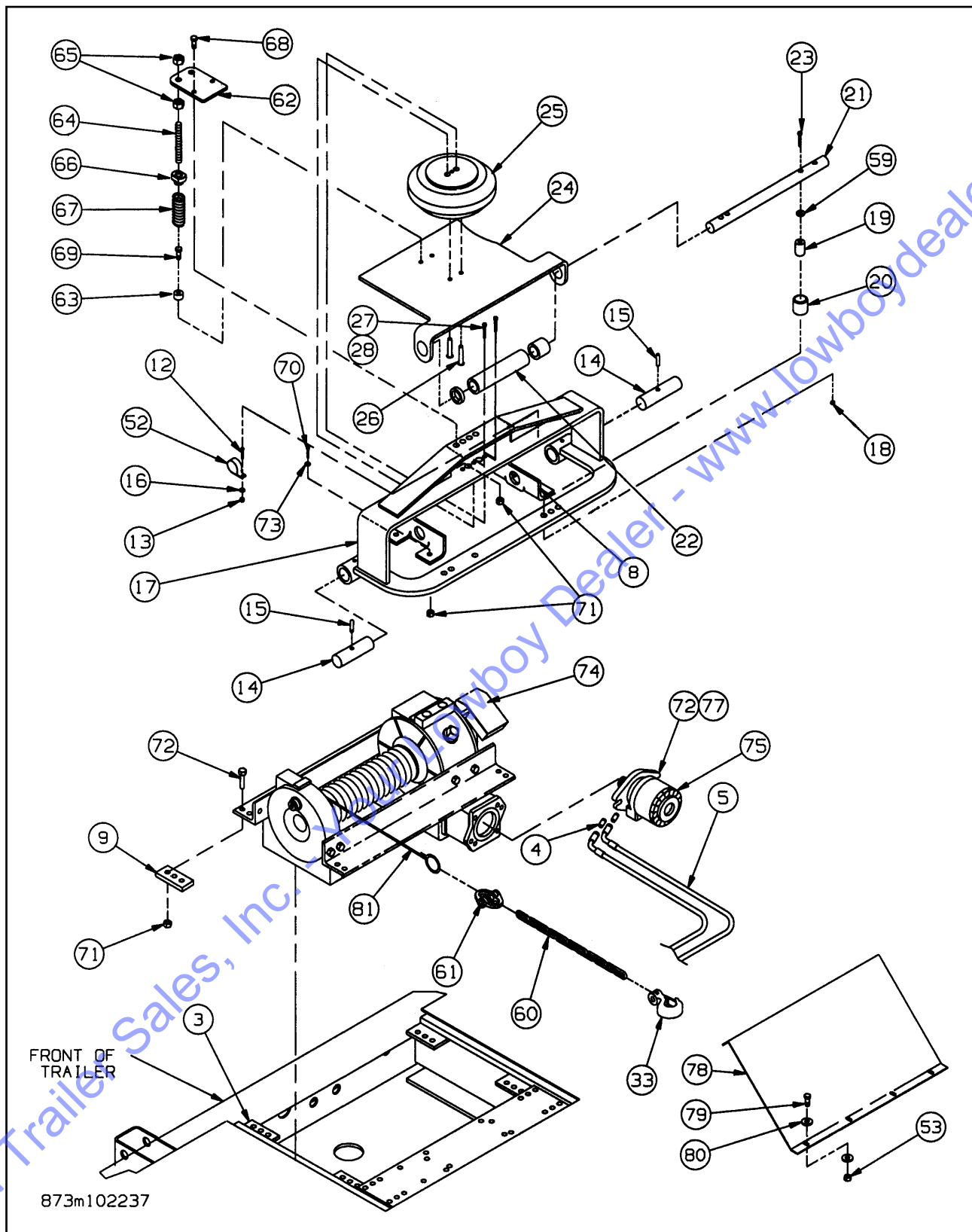


Figure 1-34 20K Upper Deck Air Tension Winch Installation
(1 of 2)

WINCH AIR TENSION INSTALLATION 20K UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
	102237	WINCH AIR TENSIONER 20K U/D W/ REMOTE CONTROLS	
1	3-272-010021	ELECT BUTT SPLICE W/SEAL	5
2	32002	TERMINAL 12-10GA W/ #10 RING WAY	1
3	3-482-010252	MOUNT WINCH	2
4	202702-10-8S	ADAPTER	2
5	1-397-010302240	HOSE ASSEMBLY 1/2 X 240	2
	100062	HOSE ASSEMBLY 1/2 X 286	2
6	1-879-010011	BLACK WIRE 14 AWG	1
8	3-014-010208	ANCHOR CABLE GUIDE WINCH	2
9	3-711-010110	SPACER AIR TENSION MOUNT	4
10	3-573-010442	DECAL, WINCH TENSION	1
11	3-150-010186	BUSHING WINCH REMOTE LEVER	1
12	1-656-010003053	SCREW RD HD MACH 10-24 X 1	1
13	1-512-010007-03	NUT HEX 10-24 GRB	1
14	3-557-010474	PIN PIVOT WINCH ROLLER	2
15	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
16	1-861-010034-07	WASHER SPLIT LOCK #10	1
17	3-125-010465	BRACKET WELDMENT WINCH TENSION 600	1
18	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	2
19	3-150-010196	BUSHING WINCH ROLLER-SIDE-600	2
20	3-831-010172	TUBE ROLLER-SIDE-600	2
21	102188	ROD PIVOTING GUIDE 20K WINCH	1
22	3-831-010182	TUBE ROLLER TOP-600 20K	1
23	1-654-010059-15	SCREW HEX HEAD CAP 5/8-11 X 5 GR8	2
24	102187	PLATE WINCH TENSIONER 20K AIR	1
25	3-720-010042	SPRING AIR 6-1/2	1
26	1-654-010141-04	SCREW HEX SOC CTSK 3/8-16 X 1GR8	2
27	1-654-010036-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR8	2
28	1-861-010032-10	WASHER FLAT 3/8N	2
29	1-297-010031-02	FITTING BRASS PIPE	1
30	1-297-010032-03	FITTING AIR 90 1/4FP X 1/4TUBE	1
31	1-297-010007-04	FITTING AIR 1/4TUBE X 1/8NPT	2
32	1-833-010001	TUBING NYLON 1/4OD	36
33	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
34	107368	CYLINDER, AIR W/ BRACKET (SEE PAGE 1-63)	1
35	1-297-010008-07	FITTING AIR 90 1/4TUBE X 1/4NPT	3
36	3-626-010004	REGULATOR AIR PRESSURE	1
37	3-120-010445	BRACKET PRESSURE REGULATOR	1
38	3-843-010022	VALVE PNEU 4 WAY, 2 POS (NO PARTS BREAKDOWN)	1
39	3-156-010008	CABLE 14-2 SO TWO CONDUCTOR	6
40	3-368-010129	HARNESS REMOTE SWITCH	1
41	1-765-010065	TOGGLE SWITCH	1
42	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
43	1-297-010015-09	FITTING AIR BRANCH TEE	1
44	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
45	1-297-010020-02	FITTING BRASS PIPE	1
46	905-54-107	VALVE & FILTER PRESSURE	*1
47	1-297-010008-05	FITTING, AIR 90	*1
48	1-654-010024014	SCREW, MACH FIL #6-32 X 1-1/2	*3
49	1-861-010032-01	WASHER, FLAT #6	*6
50	1-512-010003-02	NUT, HEX LOCK #6-32	*3

WINCH AIR TENSION INSTALLATION 20K UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
51	1-297-010015-02	FITTING AIR BRANCH TEE	1
52	239-9076-3	SUPPORT CLAMP	1
53	1-512-010005-05	NUT, HEX LOCK 3/8-16	8
54	3-348-010048	GUARD SWITCH - 3 POSITION	1
55	3-272-010109	DIODE ZENOR 20V 5-WATT	2
56	3-272-010018	TUBING HEAT SHRINK W/ SEALANT	2
57	C29-1104X	CONN FEMALE 1/4 SPADE INSULATED	3
58	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSHON	3
59	1-861-010032-18	WASHER FLAT 5/8N	2
60	3-174-010038	CHAIN LINK CONNECTING 1/2	1
61	3-174-010039036	CHAIN 1/2 X 36 GR7	1
62	3-565-011688	PLATE F/W SPRING TENSION	2
63	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION-600	2
64	RTR7999X4ZP	ROD THREADED 3/4-10 X 4-7/8	2
65	1-512-010007-12	NUT HEX 3/4-10 GR8	4
66	3-522-010017	NUT F/W SPRING TENSION	2
67	3-720-010035	SPRING	2
68	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
69	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	2
70	1-654-010055-07	SCREW HEX HEAD CAP 1/2-13 X 2-1/2 GR5	4
71	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	14
72	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	10
73	1-861-010032-14	WASHER FLAT 1/2N	4
74	3-873-010123	WINCH WORM GEAR 20K (SEE PAGE 1-56)	1
75	3-481-010007	MOTOR HYDRAULIC (SEE PAGE 1-66)	1
76	100600	DECAL WARNING WINCH (NOT SHOWN)	1
77	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
78	3-222-010083	COVER, WINCH SLOPE	1
79	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
80	1-861-010032-11	WASHER, FLAT 3/8	12
81	3-155-010018-1	CABLE 5/8 W/LOOP 60 FT.	REF
	3-155-010018-6	CABLE 5/8 W/LOOP 85 FT.	REF
82	107369	LEVER, WINCH FREE SPOOL	1
83	1-512-010007-05	NUT, HEX 1/4-20	1
84	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1

* USED ON MODELS W/O REMOTES

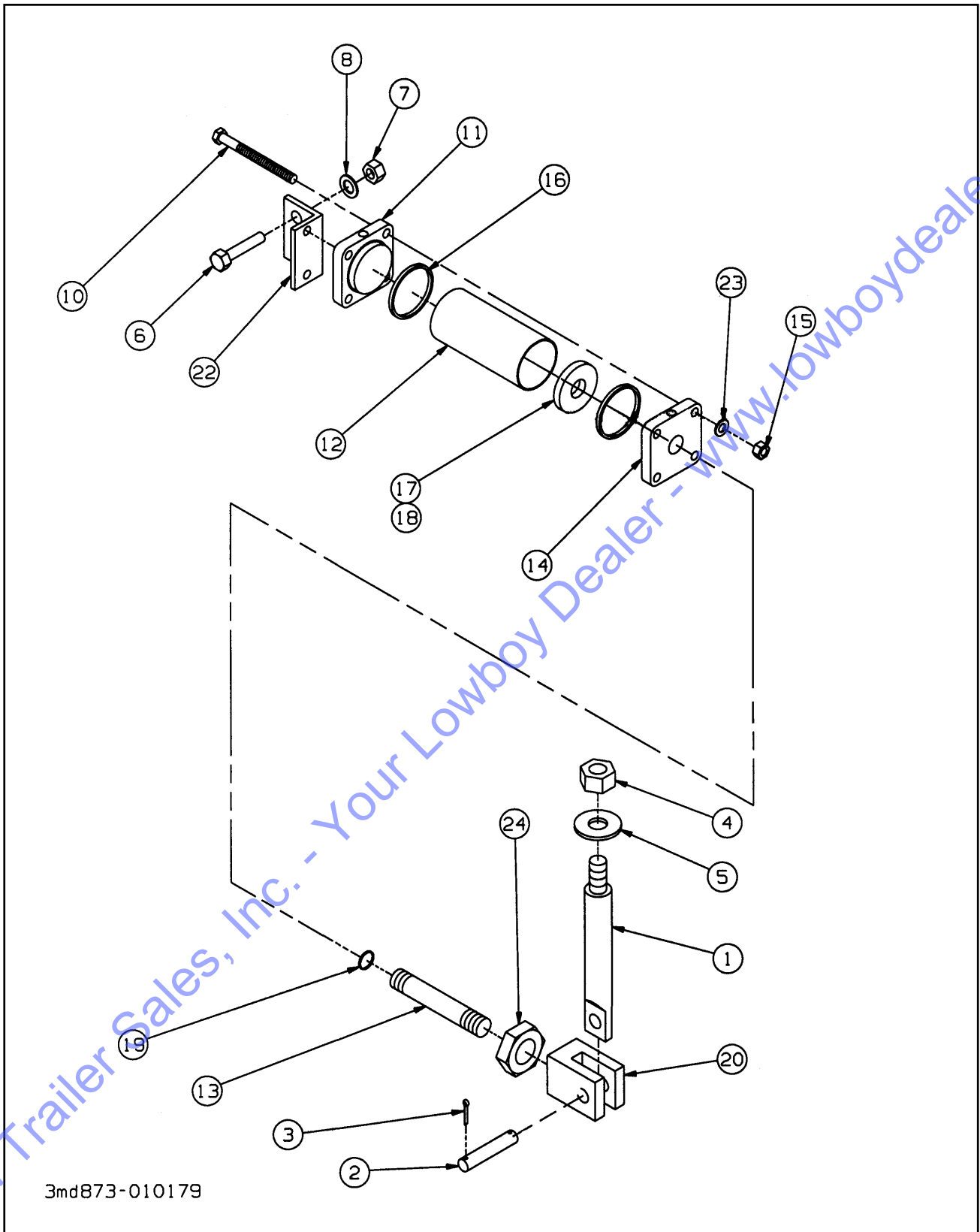


Figure 1-36 Winch Air Shift Cylinder

WINCH AIR SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	107368	CYLINDER, AIR W/ BRACKET (INCLUDES ITEMS 1-23)	
1	107369	LEVER WINCH FREE SPOOL	1
2	1976	PIN	1
3	2356	COTTER PIN	1
4	1-512-010007-05	NUT HEX 1/4-20 GRB	1
5	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
6	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2
7	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
8	1-861-010032-14	WASHER, FLAT 1/2	2
9	C2001	CYLINDER (INCLUDES ITEMS 10-23)	1
10	1128	CAPSCREW	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
24	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	3109	O-RING KIT FOR CYLINDER	

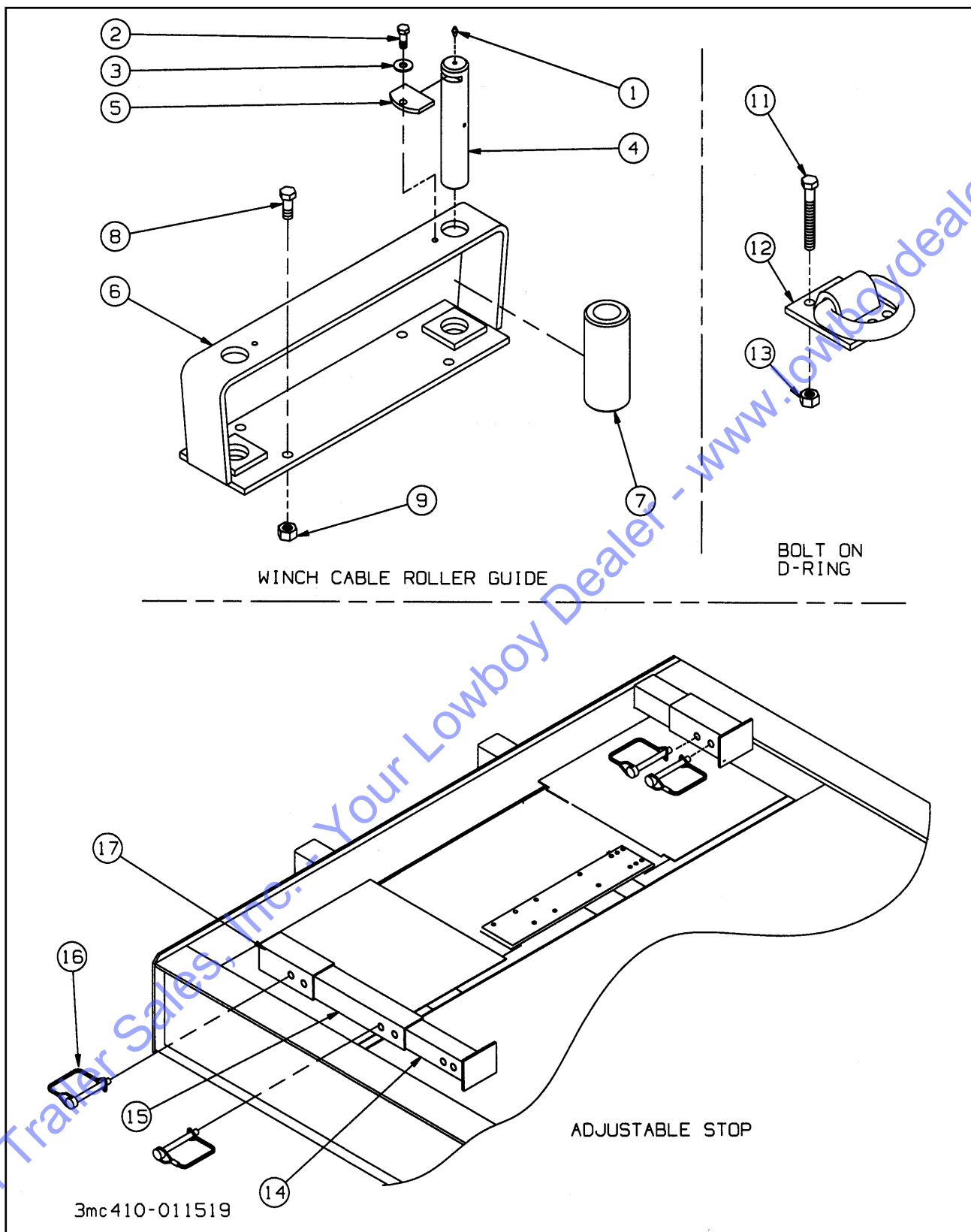


Figure 1-37 Winch Cable Roller Guide (Optional)

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	3-829-010331	TUBE INSTALLATION ADJ STOP	2

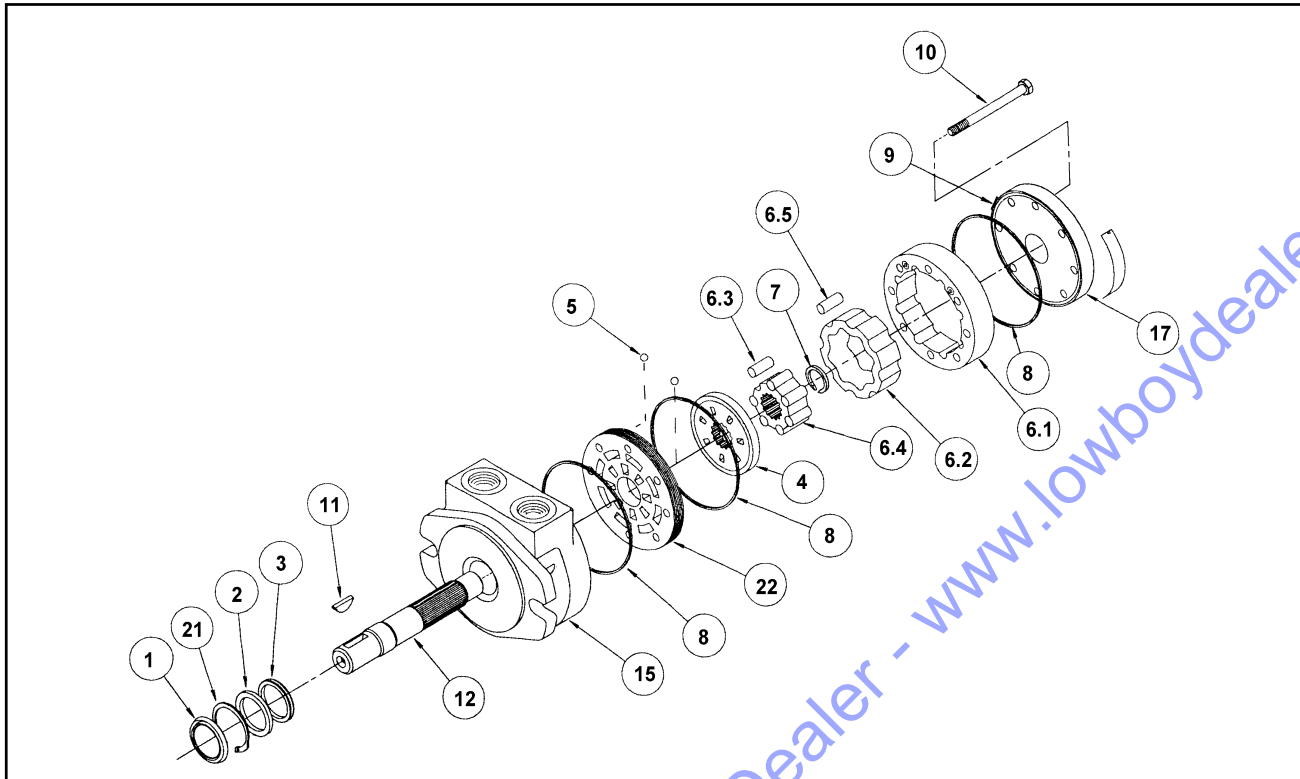
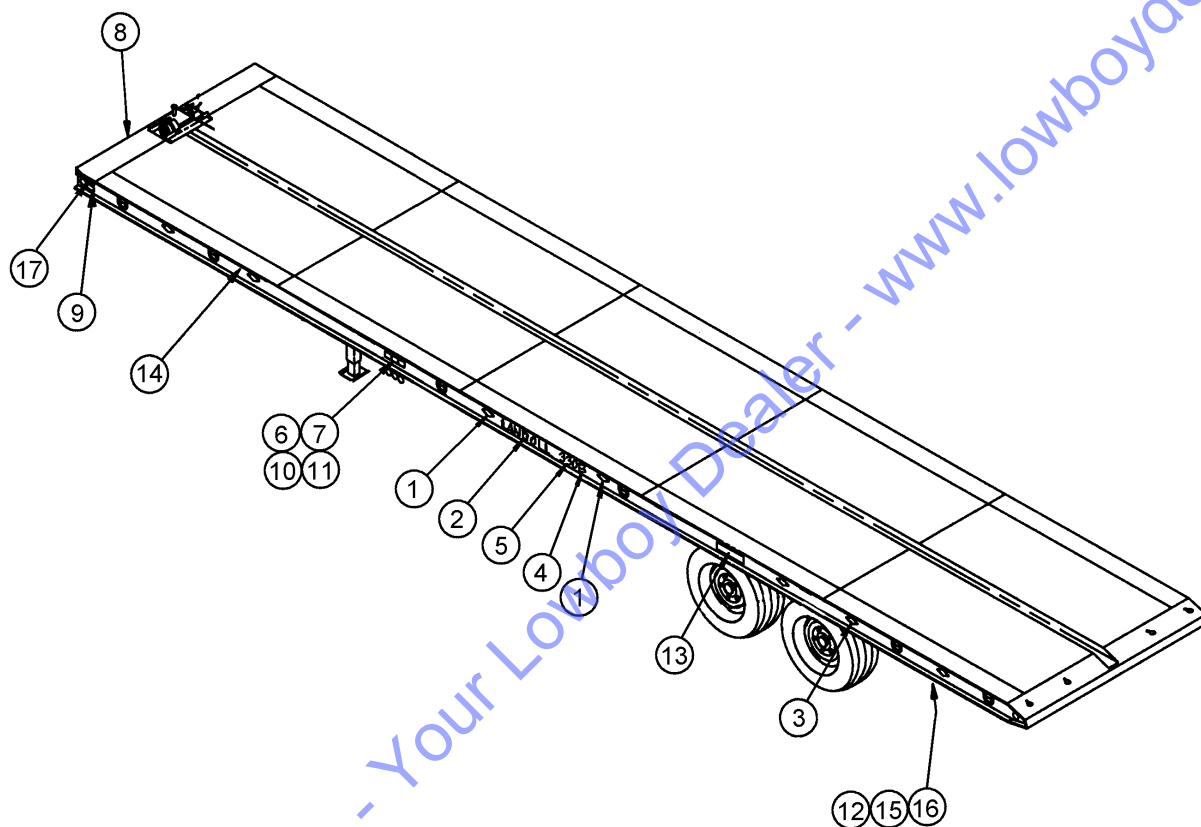


Figure 1-38 Winch Motor Assembly

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



m104560

Figure 1-40 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	1-573-010017	DECAL, LANDOLL WHITE	4
	1-573-010007	DECAL, LANDOLL BLACK	4
4	114569	DECAL, "B" BLACK	4
	114568	DECAL, "B" WHITE	4
5	113853	DECAL, 330 BLACK DC 2-1/2"	2
	113853	DECAL, 330 WHITE DC 2-1/2"	2
6	3-573-010300	DECAL, CAUTION	1
7	3-573-010127	DECAL, OPERATION	1
8	105822	DECAL, HYD COUPLER	1
9	3-573-010134	DECAL, CONC LOAD (SINGLE AXLE)	2
	3-573-010086	DECAL, CONC LOAD (TANDEM AXLE)	2
10	3-573-010057	DECAL, INSTRUCTION	1
11	3-573-010299	DECAL, WARNING WINCH	1
12	103055	DECAL, ENERGY BUMPER CERT.	1
13	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
14	3-573-010377	DECAL, REFLEXITE TAPE RED/WHITE	48'
15	103056	DECAL, ENERGY BUMPER WARNING	1
16	3-573-010031	DECAL, BUMPER	1
17	3-573-010298	DECAL, PATENT TRAILERS AND TOLL FREE NO.	2
18	3-573-010296	DECAL, WINCH TILT	REF
19	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	REF
20	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	REF
21	3-573-010394	DECAL, TILT/WINCH/UNDERCARRIAGE	REF
22	3-573-010378	DECAL, 2 X10 REFLEXITE WHITE (NOT SHOWN)	2

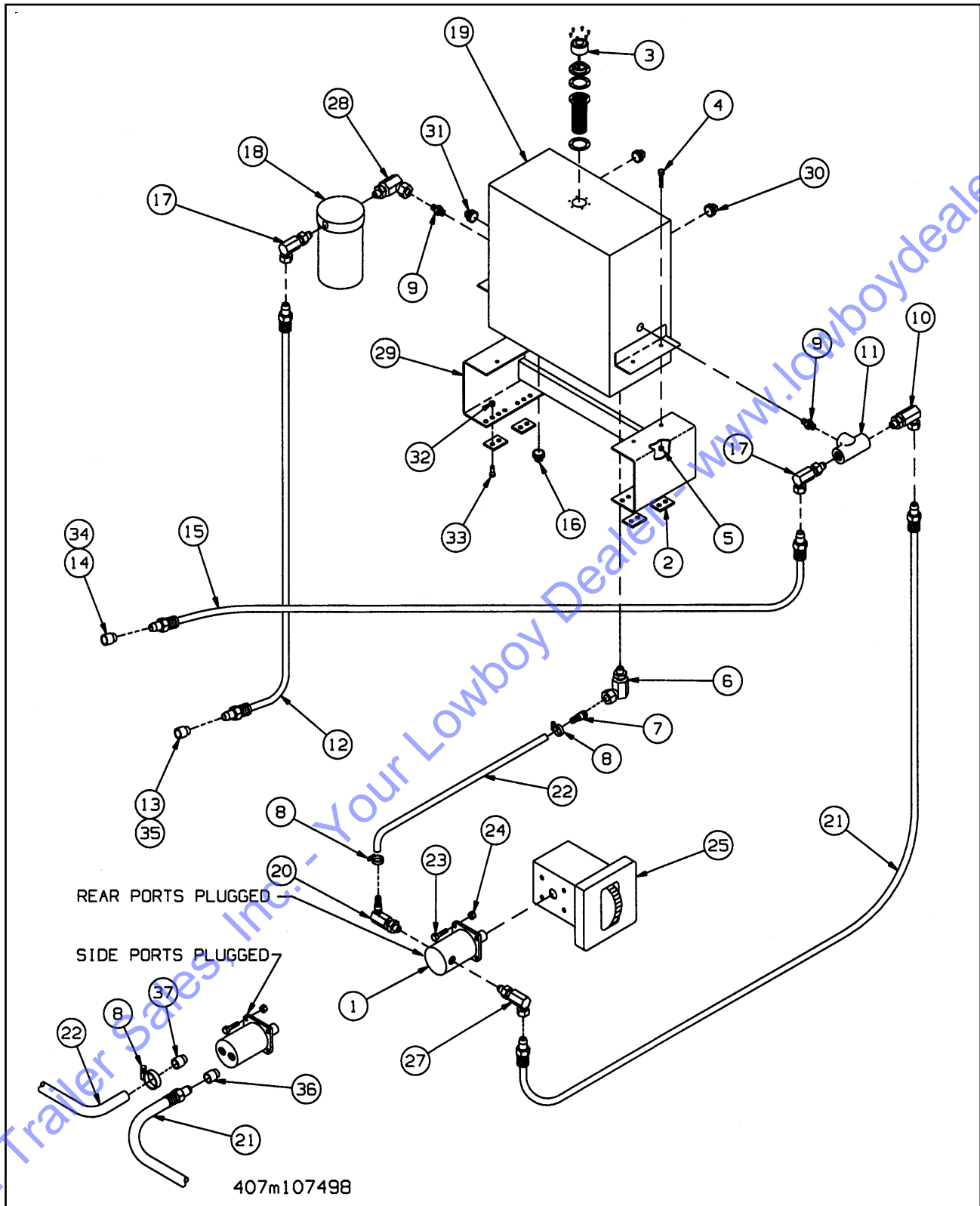


Figure 1-41 Hydraulic Wet Kit Assembly (Option)

HYDRAULIC WET KIT (OPTION)

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 1-72)	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 3/8-16 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 3/4 X 164	1
13	105479	COUPLER FLAT FACE MALE NOSE	1
14	105480	COUPLER FLAT FACE FEMALE BODY	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
	1-295-010002	FILTER ELEMENT	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 1/2 X 100	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.

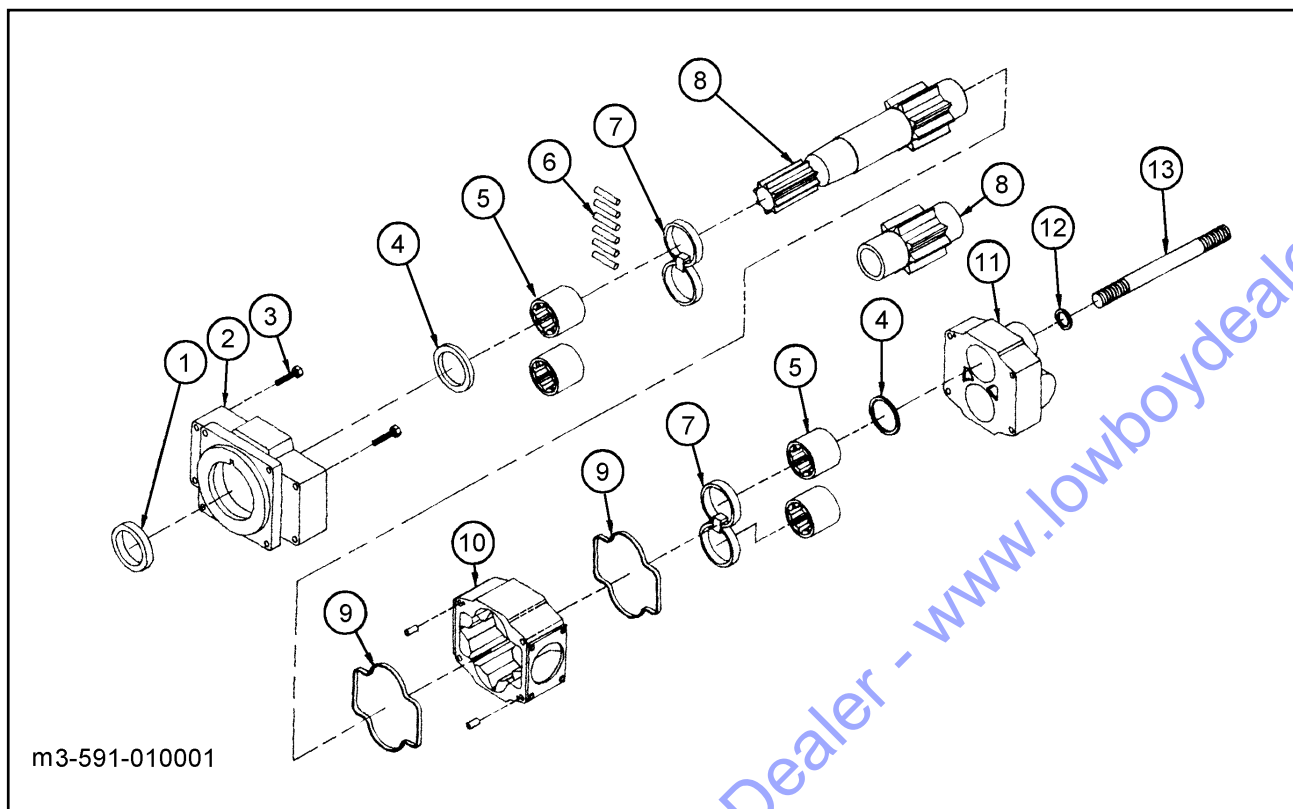


Figure 1-42 Hydraulic Pump, Wet Kit (Option)

HYDRAULIC PUMP, WET KIT (OPTION)

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	

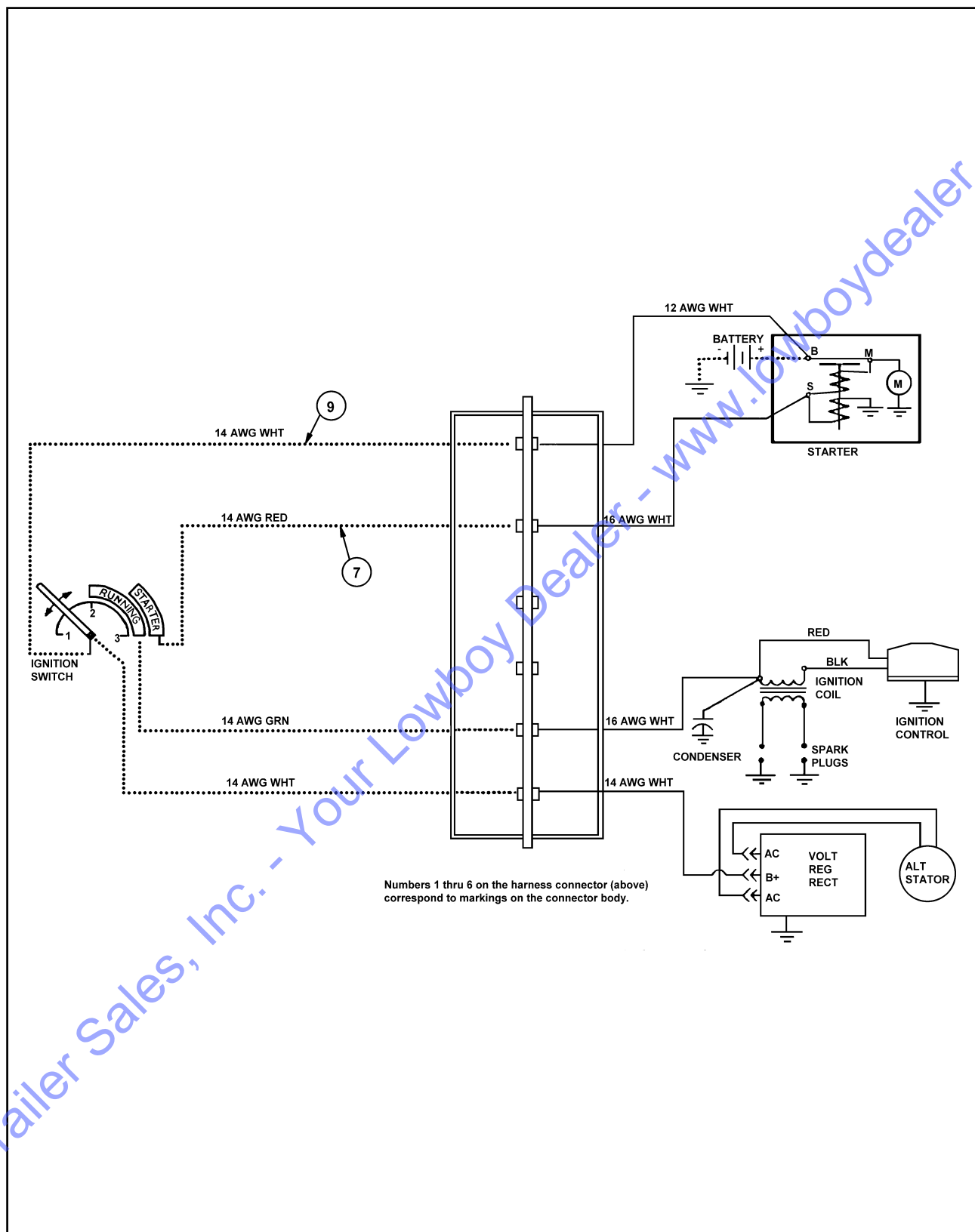


Figure 1-43 Engine Harness Diagram

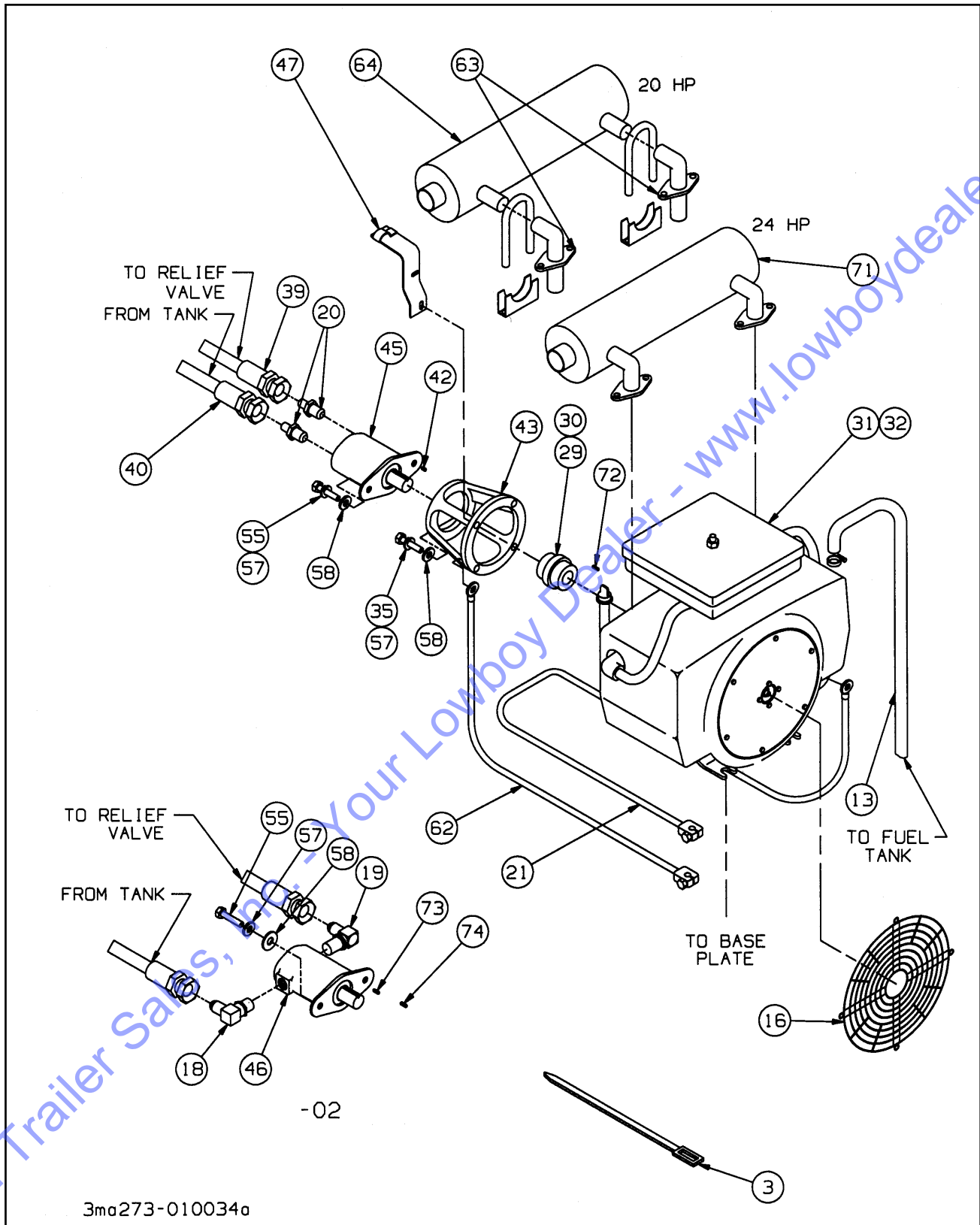


Figure 1-44 Auxiliary Engine Package (1 of 2)

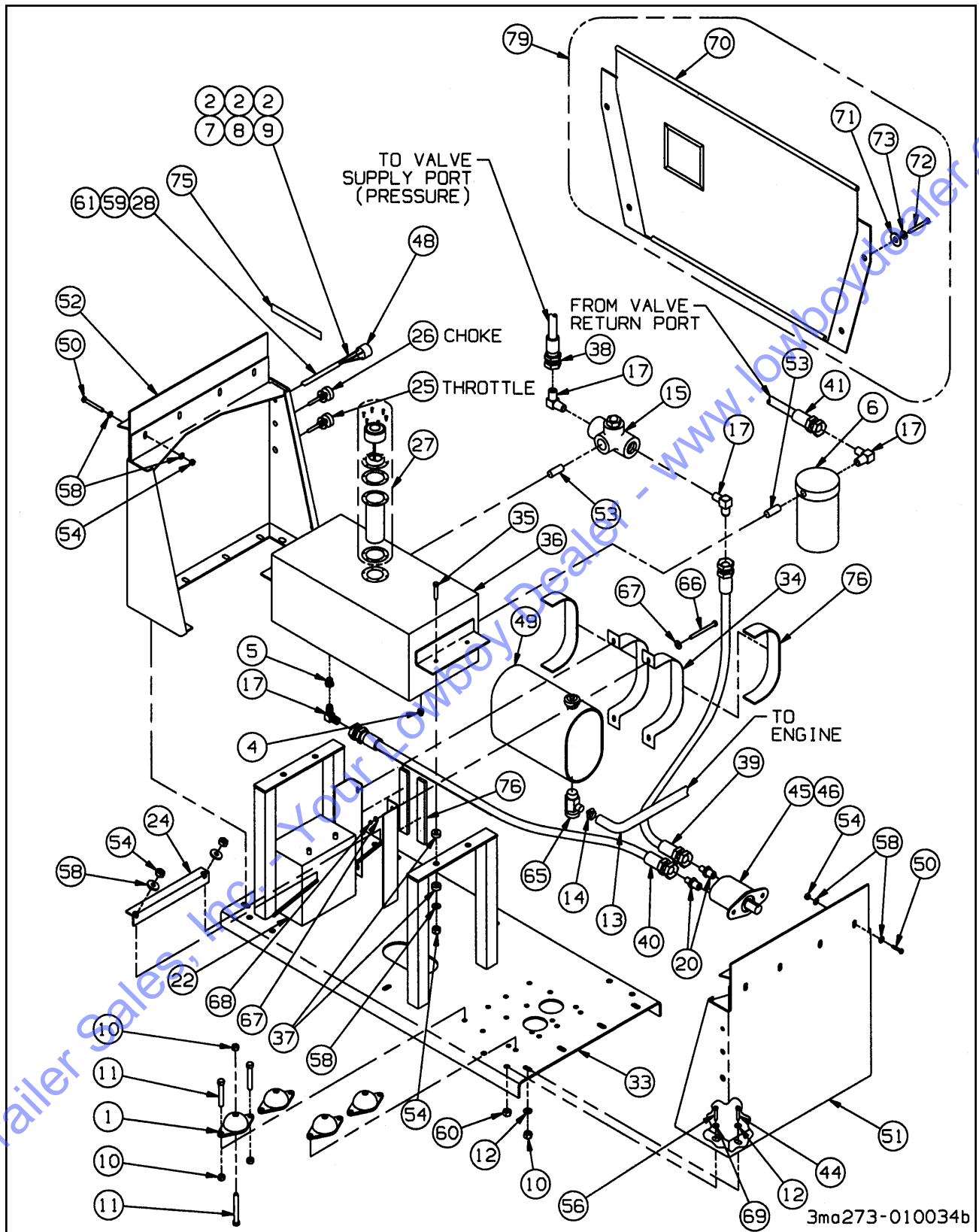


Figure 1-45 Auxiliary Engine Package (2 of 2)

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 DUROMETER	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	1-1/4 X 3/4 BUSH	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	3-744-010046	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
48	3-765-010005	IGNITION SWITCH	1

AUXILIARY ENGINE PACKAGE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
49	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	1-512-010005-13	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"

* 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 1-43 FOR ENGINE HARNESS DIAGRAM.

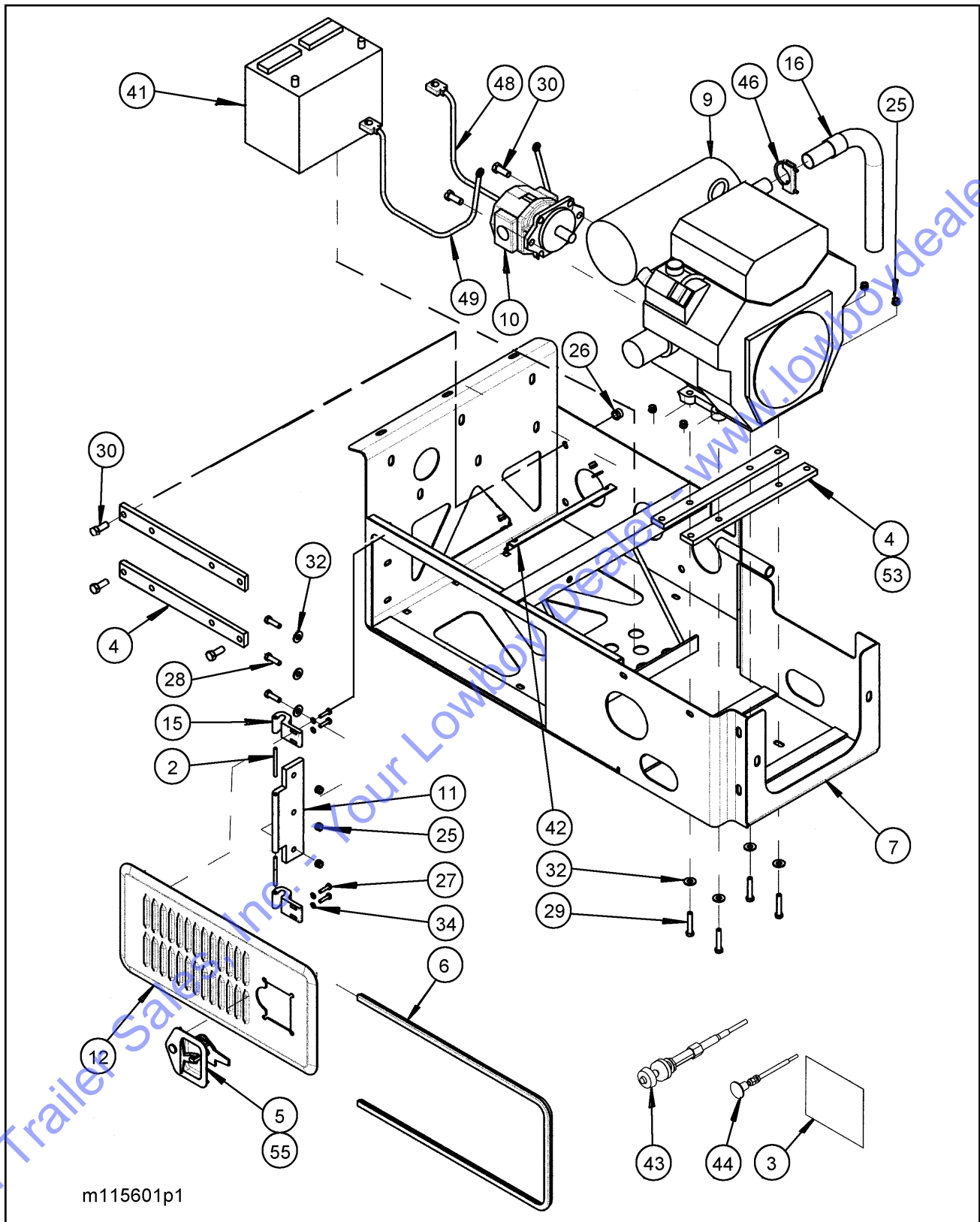


Figure 1-46 Engine Package Front Mount (1 of 2)

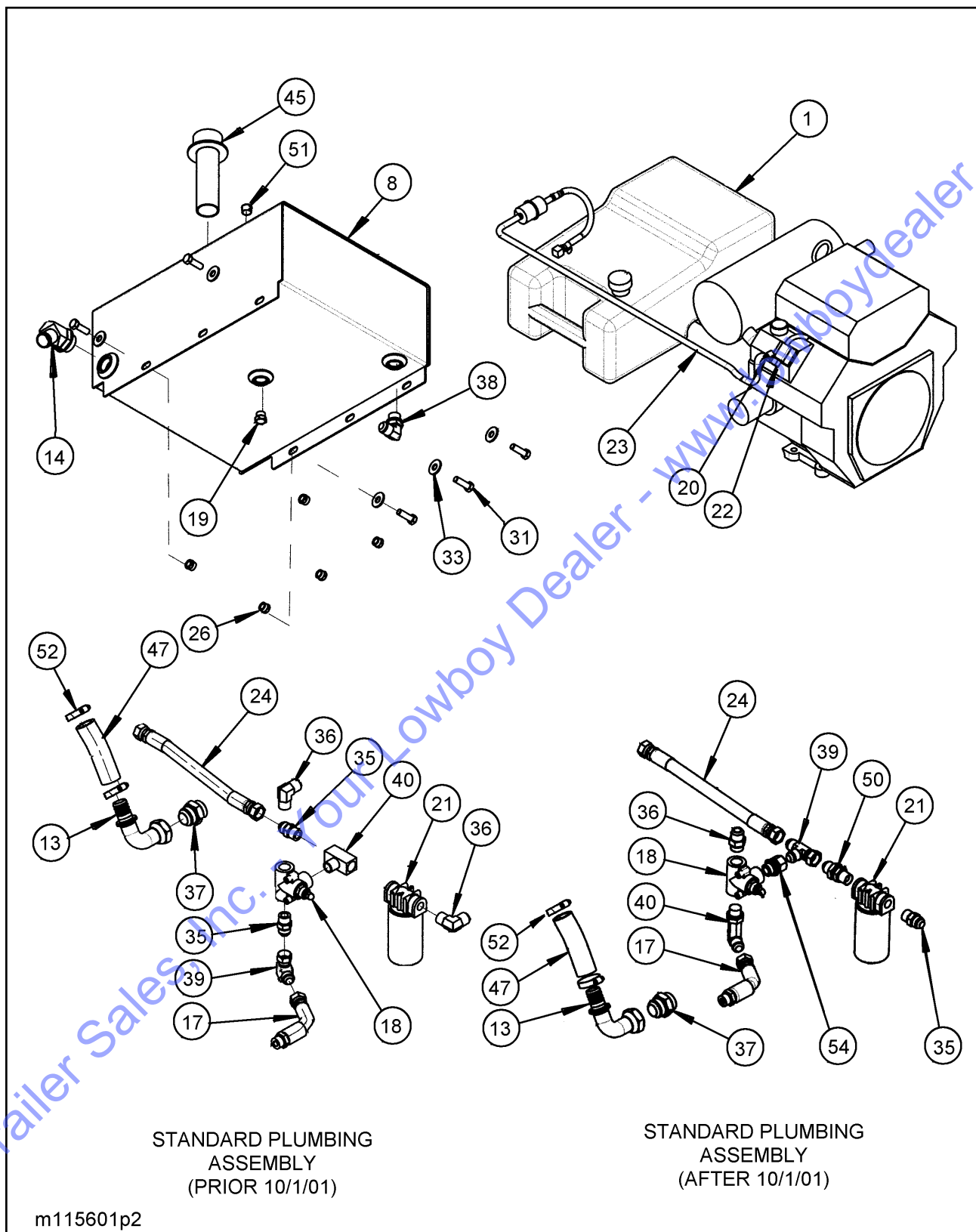


Figure 1-47 Engine Package Front Mount (2 of 2)

25HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	25 HP GAS ENGINE PACKAGE	
1	104699	TANK, FUEL PLASTIC	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENG PKG INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	*4,2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	1
7	114968	MOUNT WELDMENT, ENG PKG 25 HP(PRIOR 10/1/01)	1
	120654	MOUNT WELDMENT, ENG PKG 25 HP(AFTER 10/1/01)	1
8	120662	HYD TANK WELDMENT	1
9	115586	ENGINE KOHLER 25 HP PUMP MOUNT	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	125130	VALVE, HYDR PRESSURE RELIEF(PRIOR 10/1/01)	1
	120661	VALVE, HYDR PRESSURE RELIEF(AFTER 10/1/01)	1
19	900598-12S	PLUG, O-RING	1
20	1-181-010046-1	CLAMP, HOSE	2
21	1-295-010001	RETURN LINE FILTER	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	1
24	1-397-010304016	HOSE ASSEMBLY 3/4 X 16 (PRIOR 10/1/01)	1
	1-397-010304018	HOSE ASSEMBLY 3/4 X 18 (AFTER 10/1/01)	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	9
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	4
30	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	6
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	5
32	1-861-010032-11	WASHER, FLAT 3/8W	9
33	1-861-010032-15	WASHER, FLAT 1/2W	5
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2021-12-12S	ADAPTER	*2,1
36	2024-12-12S	ELBOW, 90 (PRIOR 10/1/01)	2
	202702-12-12S	ADAPTER, STRAIGHT (AFTER 10/1/01)	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	1
39	2071-12-12S	ADAPTER, 90 (PRIOR 10/1/01)	1
	203102-12-12S	ADAPTER, TEE (AFTER 10/1/01)	1
40	2091-12-12S	BRANCH TEE (PRIOR 10/1/01)	1
	206209-12-12S	ADAPTER, 90 (AFTER 10/1/01)	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	3-155-010012	CABLE, THROTTLE	1

25HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
44	3-155-010025	CABLE, UTILITY CHOKE	1
45	3-162-010001	FILLER-BREATHING-STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1
47	3-399-010001	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	1-560-010002-04	PLUG, PIPE 1/2	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120569	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	113544	HARNESS, ENG PKG IGNITION (NOT SHOWN)	1

* 1ST QUANTITY LISTED IS PRIOR TO 10/1/01; 2ND QUANTITY LISTED IS AFTER 10/1/01.

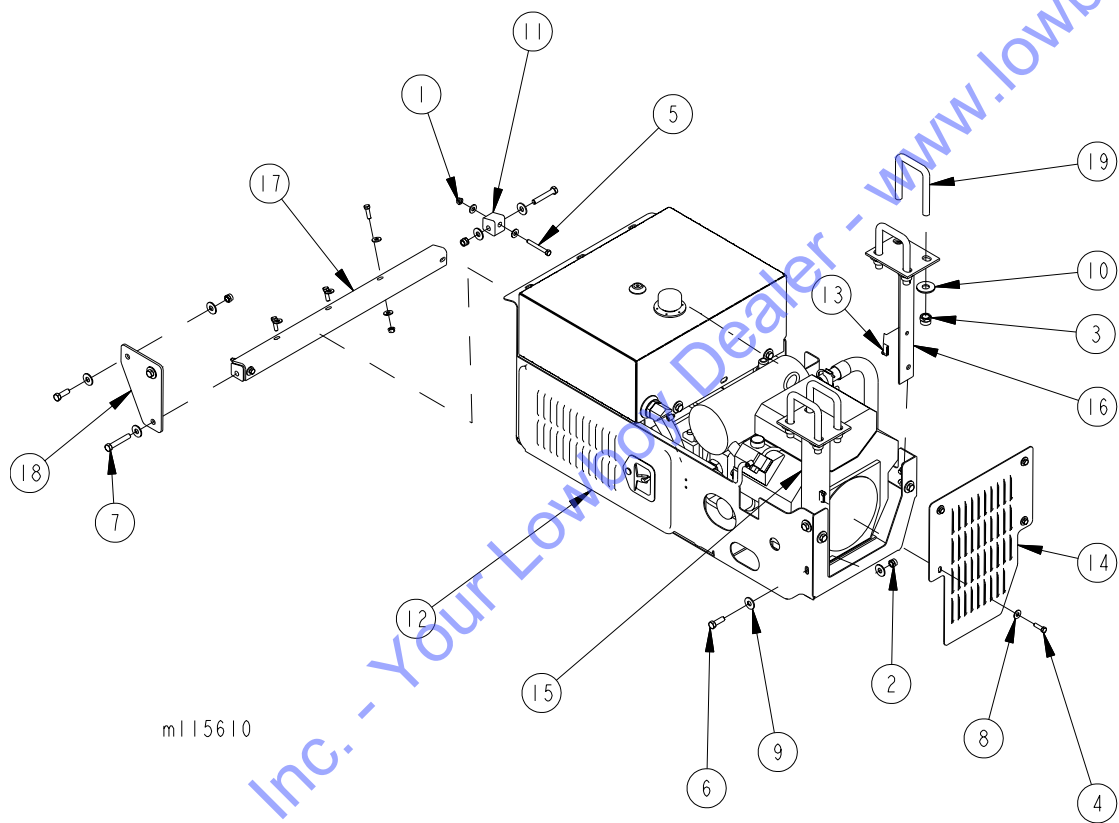
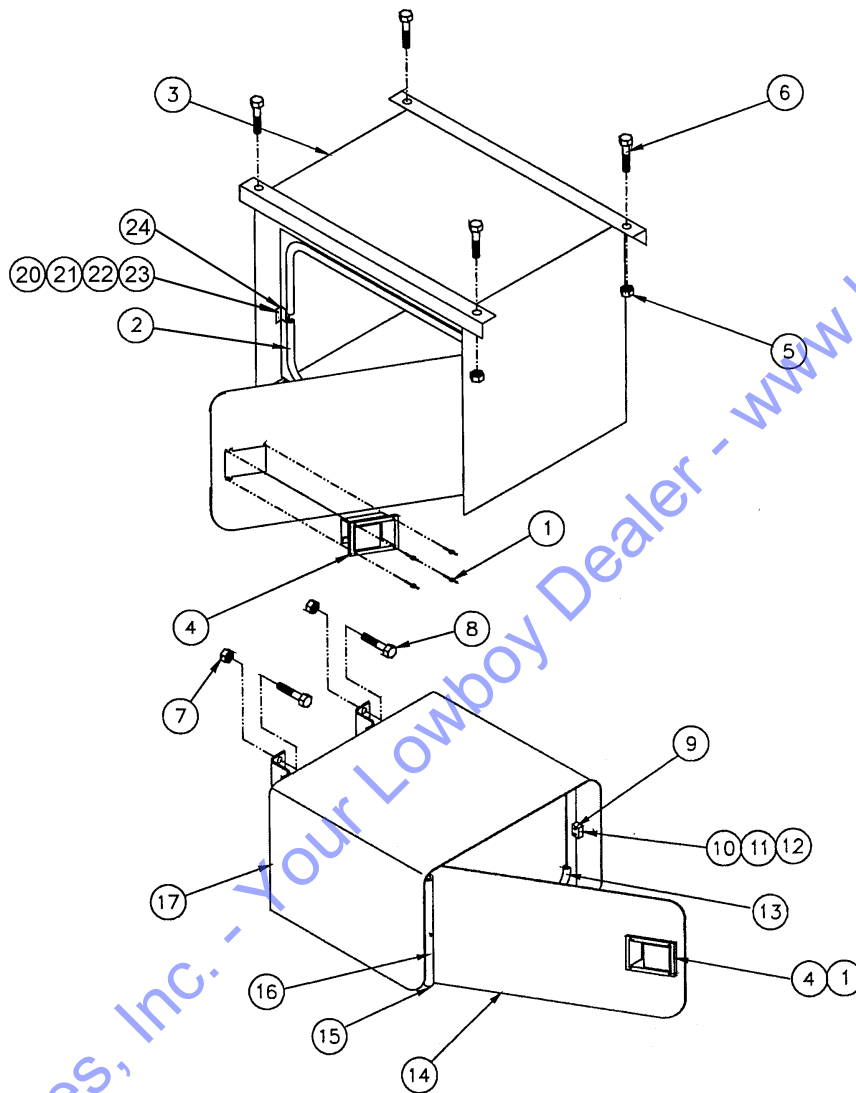


Figure 1-48 Underslung Engine Package Installation

UNDERSLUNG ENGINE PACKAGE INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	115610	ENGINE PACKAGE INST UNDERSLUNG	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	5
2	1-512-010005-09	NUT, HEX LOCK 1/2-13	11
3	1-512-010005-15	NUT, HEX LOCK 3/4-10	8
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
5	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	2
6	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	9
7	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	2
8	1-861-010032-11	WASHER, FLAT 3/8	10
9	1-861-010032-15	WASHER, FLAT 1/2	22
10	1-861-010032-21	WASHER, FLAT 3/4	8
11	113359	BRACKET, MOUNTING CROSS MEMBER	2
12	115601	ENGINE PACKAGE 25 HP GAS	1
13	116332	NUT, EXTRUD U 5/16-18	4
14	116334	SHIELD, ENG PACKAGE FRONT	1
15	120437	MOUNT, FRONT RH	1
16	120438	MOUNT, FRONT LH	1
17	120439	ANGLE, REAR	1
18	120635	PLATE, REAR MOUNT	1
19	2-102-010011	U-BOLT	4

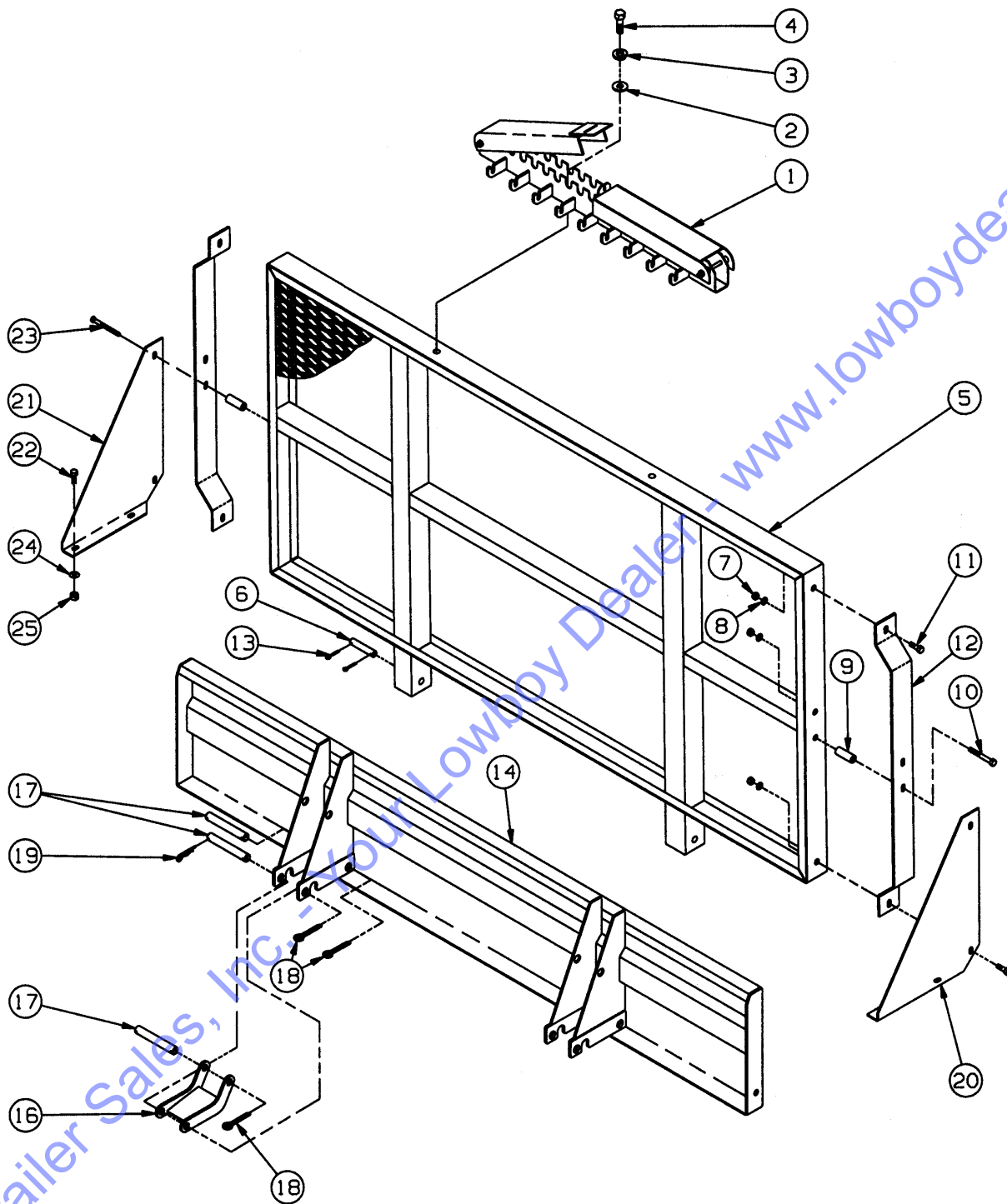


b3-115-016

Figure 1-49 Tool Boxes (Option)

TOOL BOXES (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	B3-115-016	TOOL BOX, TOP MOUNTING, 24X30X30 (ITEMS 1-6,18-24)	
	B7-115-003	TOOL BOX BACK MOUNTING LH (ITEMS 1, 4, & 7-18)	
	B7-115-004	TOOL BOX BACK MOUNTING RH (ITEMS 1, 4, & 7-18)	
1	BSL-6-4	RIVET	4
2	514-1000	QUICK-EDGE TRIM	AR
3	3-115-010053	TOOL BOX WELDMENT	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	1/2-13X3 HHCS	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.	AR
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
20	1-512-010007-03	NUT, HEX #10-24	2
21	1-656-010003051	SCREW, RD HD MACH #10-24 X 3/4	2
22	1-861-010032-03	WASHER, FLAT #10	2
23	1-861-010034-07	WASHER, SPLIT LOCK #10	2
24	107463	MOUNT ADJ STRIKER PLATE	1



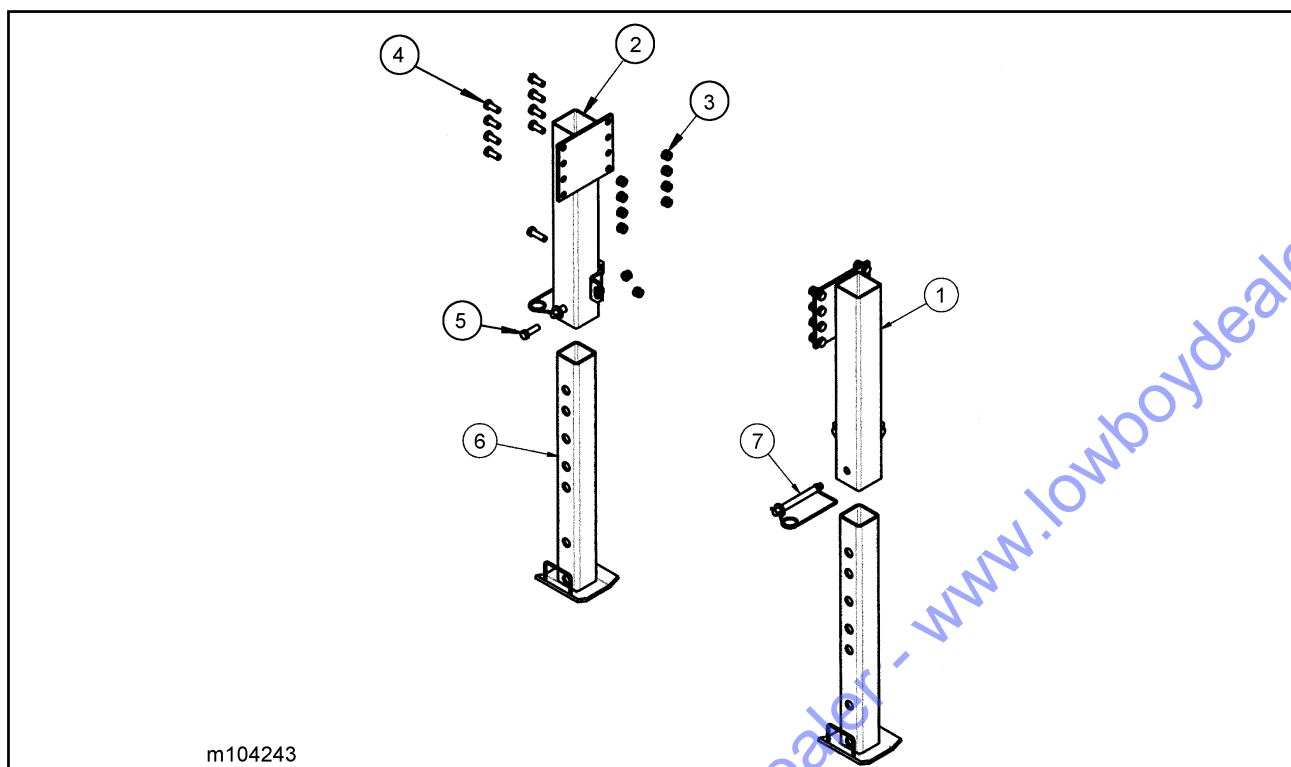
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Figure 1-50 Front Extension and Bulkhead Assembly
(Option)

FRONT EXTENSION AND BULKHEAD ASSY(OPTION)

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)	
	3-117-010071-1	BRACE INST. STABILIZING 48' BULKHEAD (ITEMS 20-25)	
1	3-141-010008	CHAIN HANGER LOCKING CHANNEL WELDMENT	1
2	1-861-010032-11	WASHER, FLAT 3/8	1
3	1-861-010034-11	WASHER, SPLIT LOCK 3/8	1
4	1-654-010051-06	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	3-117-010069	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

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



m104243

Figure 1-51 Landing Gear Installation Bolt-On

LANDING GEAR INSTALLATION BOLT - ON

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INST., BOLT-ON	
1	112678	PARK STAND WELDMENT, LH FRONT PIN	1
2	112679	PARK STAND WELDMENT, RH FRONT PIN	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5	16
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WELDMENT	2
7	346SL	LOCK HITCH PIN	2

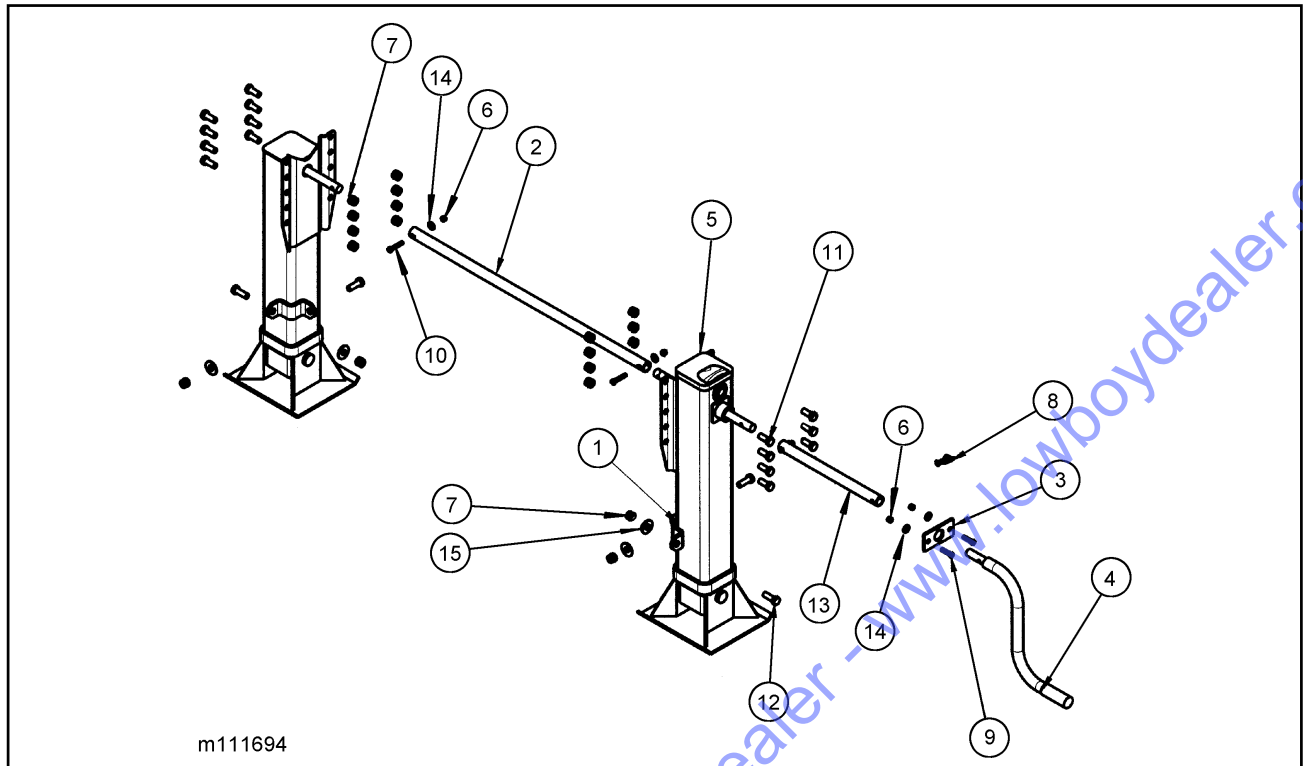


Figure 1-52 Landing Gear Installation

LANDING GEAR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.	
	112573	LANDING GEAR INSTALLATION	*	
	113887	LANDING GEAR INSTALLATION 330 DROP DECK	*	
1	104238	ANCHOR, LOWER BOLT-ON PARK STAND	2	2
2	113883	CROSS-SHAFT LANDING GEAR	1	1
3	111695	GUIDE, HANDLE, JOST GEAR	--	1
4	109710	CRANK	1	--
	109161	HANDLE, CRANK MODIFICATION	--	1
5	109709	2 SPEED LANDING GEAR (SEE PAGE 1-91)	1	1
6	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	5	5
7	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20	20
8	111859	PIN, ROUND LOCKING 5/16 X 1-1/2	1	1
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	2	2
10	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3	3
11	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16	16
12	1-654-010059-04	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR5	4	4
13	109159	TUBE, ROUND EXTENSION	--	1
14	1-861-010032-11	WASHER, FLAT 3/8W	5	5
15	1-861-010032-19	WASHER, FLAT 5/8W	4	4

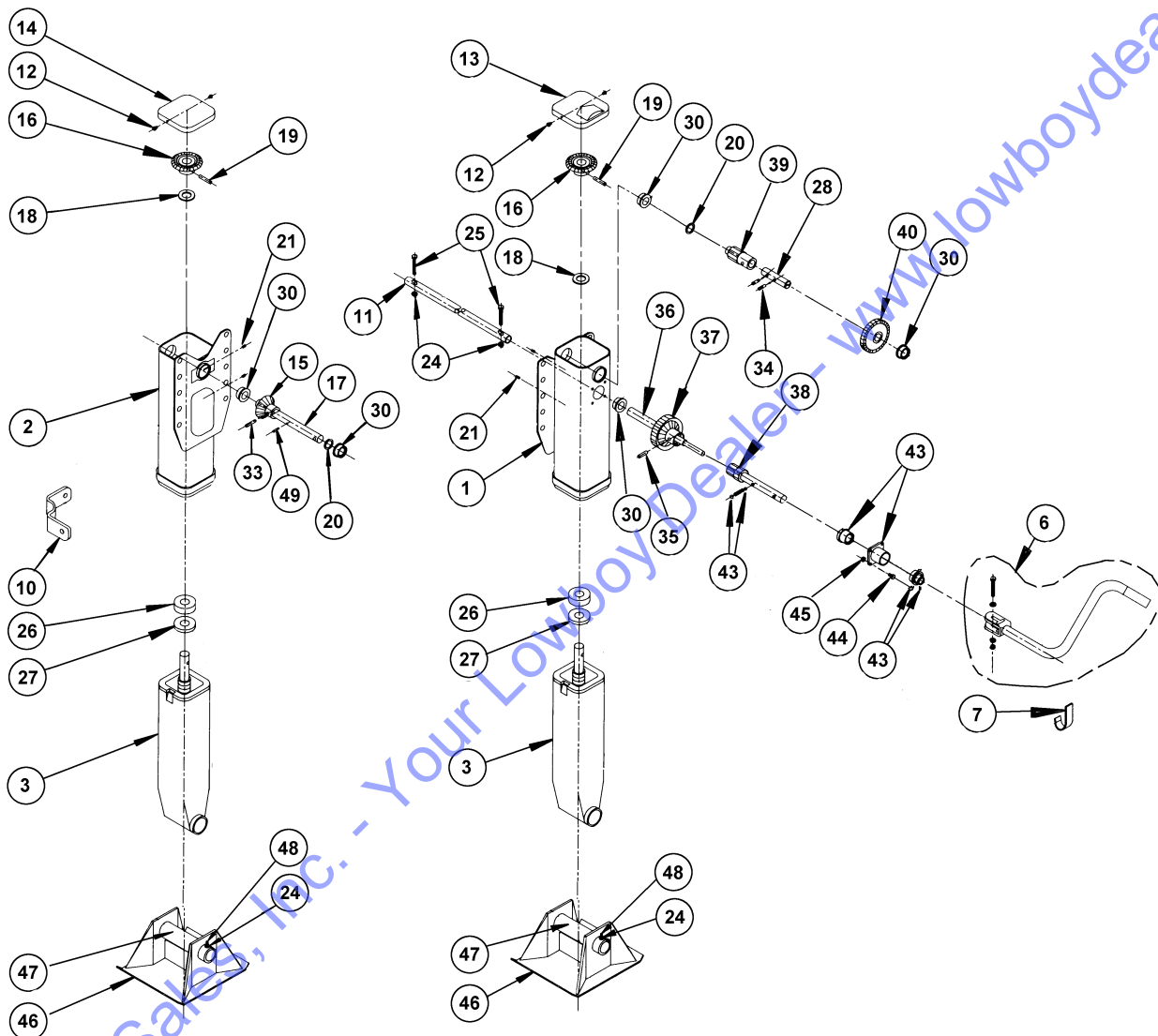


Figure 1-53 Crank Landing Gear

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

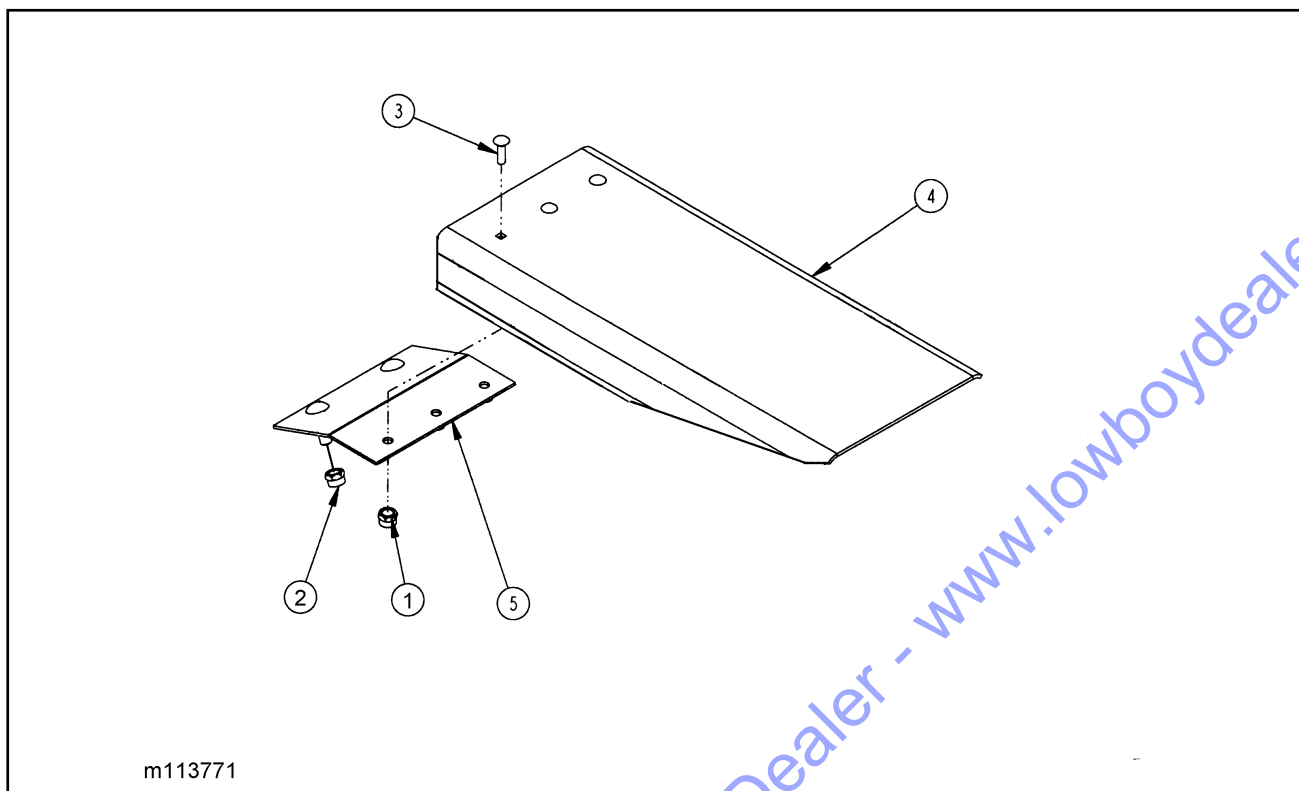


Figure 1-54 Aluminum Ramps (Option)

ALUMINUM RAMPS (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	113771	RAMPS, ALUMINUM	
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2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
3	1/2-13 x 1-3/4CB	SCREW, RD HEAD SQ. NECK 1/2-13 X 1-3/4	6
4	113713	ALUMINUM RAMP ASSEMBLY	2
5	113714	ANCHOR ASSEMBLY, ALUMINUM RAMP	2

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