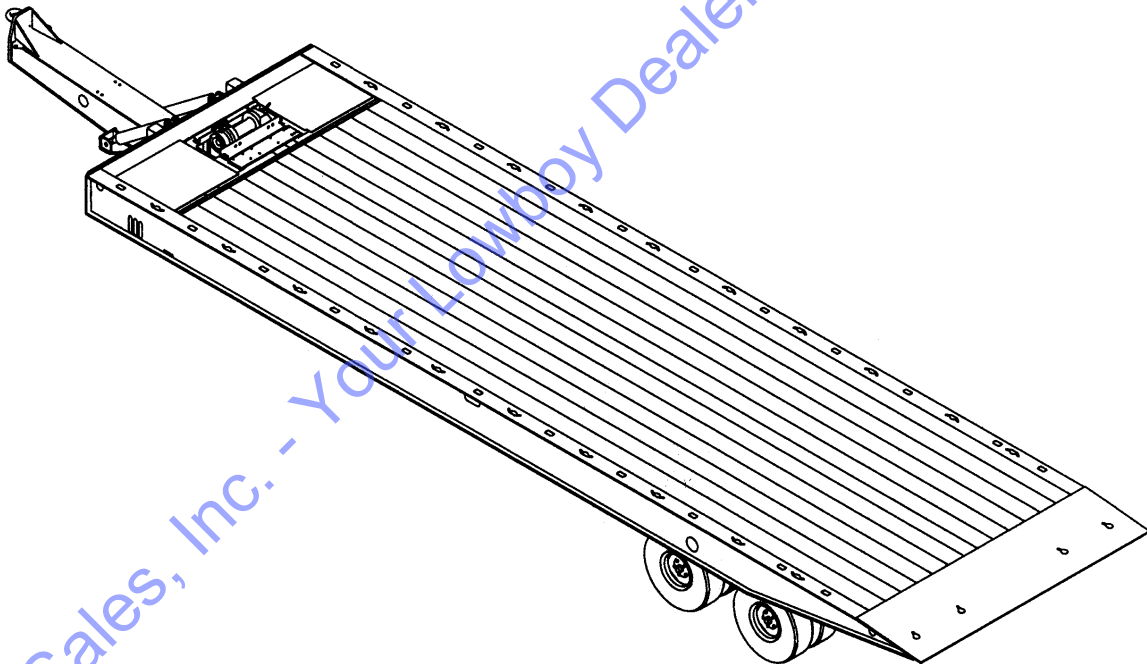




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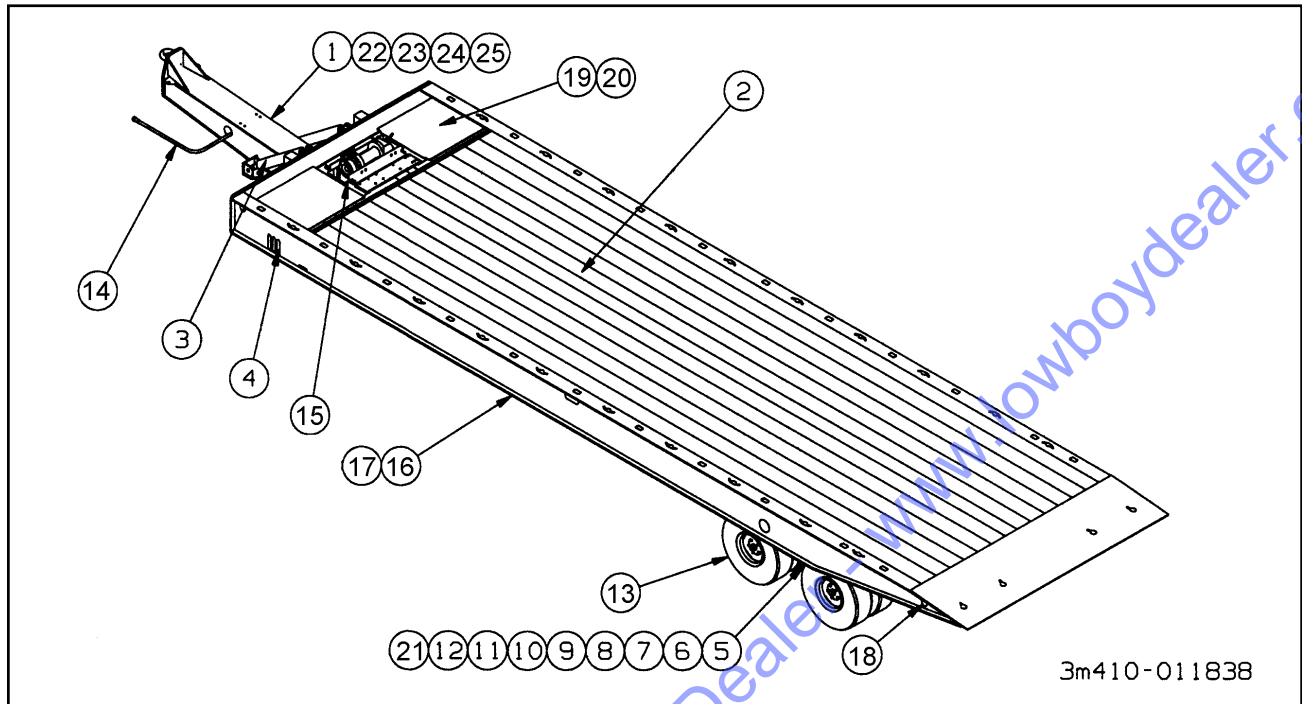
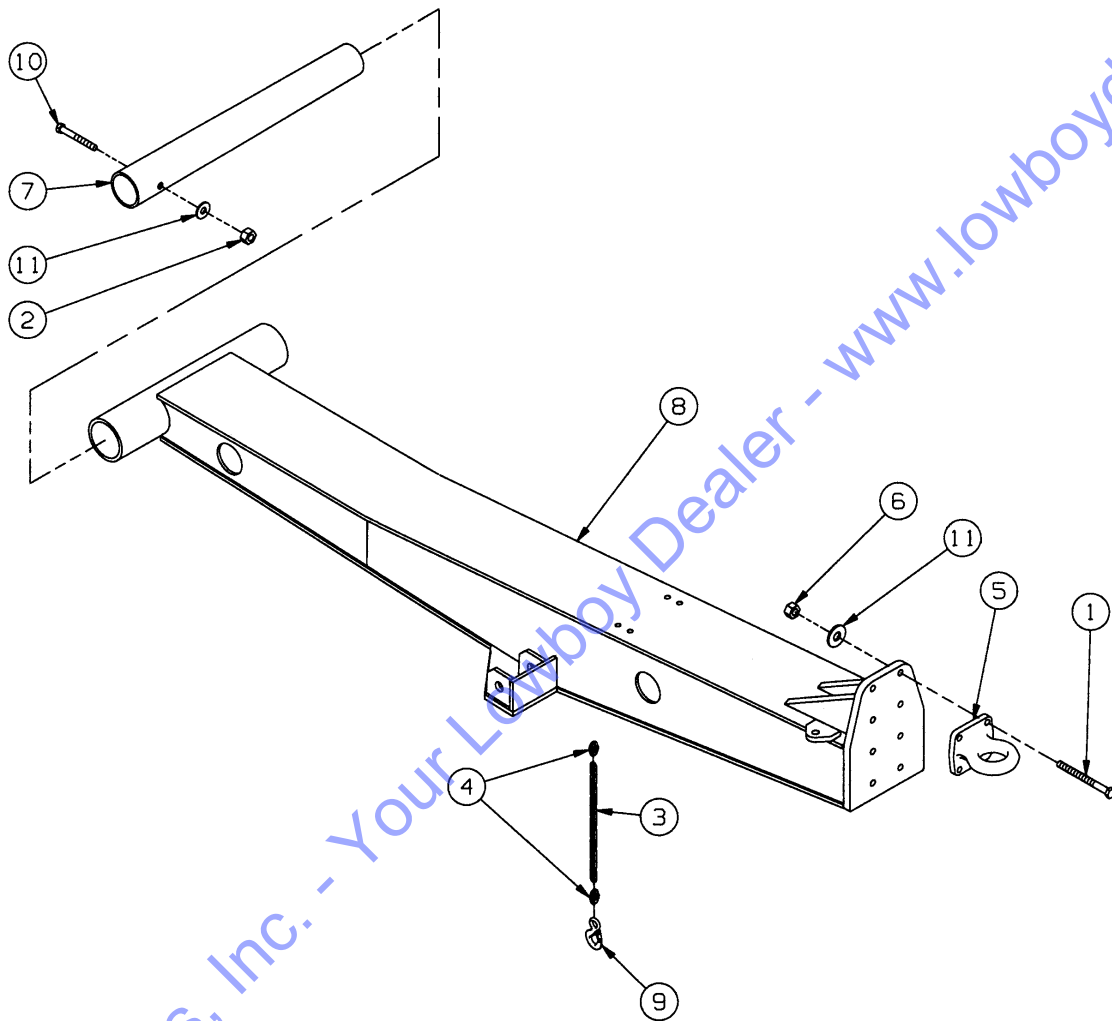


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PAGE/PART NO.	DESCRIPTION
1	1-2 - 1-3	HITCH ASSEMBLY, PINTLE RIGID
2	1-4	FLOOR, WOOD (APITONG)
3	1-5 - 1-13	HYDRAULIC ASSEMBLIES
4	1-14 - 1-21	ELECTRICAL ASSEMBLIES
5	1-22 - 1-23	UNDERCARRIAGE ASSEMBLY - SPRING RIDE
6	1-24 - 1-25	SUSPENSION ASSEMBLY - SPRING RIDE
7	1-26 - 1-28	UNDERCARRIAGE ASSEMBLY - AIR RIDE
8	1-29	AIR CONTROL KIT
9	1-30 - 1-31	AIR BRAKE SYSTEM
10	1-32 - 1-33	SUSPENSION HANGER ASSEMBLY
11	1-34 - 1-35	AXLE AND BRAKE ASSEMBLY
12	1-36 - 1-37	BRAKE KIT ASSEMBLY
13	1-38 - 1-39	HUB AND DRUM ASSEMBLIES
14	1-40 - 1-41	AIR SYSTEM
15	1-42 - 1-52	WINCH ASSEMBLIES
16	1-53 - 1-55	DECAL INSTALLATION
17	1-56 - 1-57	EXTENSION INSTALLATION (OPTION)
18	1-58 - 1-61	REMOTE CONTROL ASSEMBLIES (OPTION)
19	1-62 - 1-66	ENGINE DRIVE, 20HP
20	1-67-1-69;1-78;1-84-1-85	MISCELLANEOUS ASSEMBLIES (OPTION)
21	1-70 - 1-77	DOCK LEVELER ASSEMBLIES (OPTION)
22	1-79 - 1-83	HITCH LOCK AND JACK INSTALLATIONS (OPTION)
23	3-311-010145	PARKING STAND
24	346SL	LOCK HITCH PIN
25	3-406-010024	HUBODOMETER AND BRACKET (OPTION) (NO PARTS BREAKDOWN)



3mo375-010613

Figure 1-2 Hitch Assembly, Pintle Rigid

HITCH ASSEMBLY, PINTLE RIGID

ITEM	PART NO.	DESCRIPTION	QTY.
	3-375-010613-01	HITCH ASSEMBLY, PINTLE RIGID 7'	
	3-375-010613-02	HITCH ASSEMBLY, PINTLE RIGID 5'	
	3-375-010613-03	HITCH ASSEMBLY, PINTLE RIGID 4'	
	3-375-010613-04	HITCH ASSEMBLY, PINTLE INV PLATE 5'	
	126890	HITCH ASSY, PINTLE RIGID 7' W/ GR8 CHAIN AND CONN.	
1	1-654-010032-09	SCREW HEX HEAD CAP 3/4-10X3 GR8	4
2	1-512-010007-12	NUT HEX 3/4-10 GR2	1
3	3-174-010039036	CHAIN 1/2X36 GRD 7	2
	126888	CHAIN 1/2 X 36 GR8	2
4	3-174-010038	CHAIN LINK CONNECTING 1/2	4
	126889	CHAIN LINK CONNECTING 1/2 GR8	2
5	1385	PINTLE EYE	1
6	1-512-010010-12	NUT HEX 3/4-10 GR8	4
7	3-311-010578	HINGE TUBE	1
8	3-375-010147	HITCH ASSEMBLY 7FT	1
	3-375-010152	4 FT HITCH ASSEMBLY	1
	3-375-010140	5 FT HITCH ASSEMBLY	1
	3-375-010621	HITCH WELDMENT 5' INVERT FRONT PLATE	1
9	3-382-010019	HOOK, EYE W/ LATCH ASSEMBLY	2
	126886	HOOK, CLEVIS 1/2 CHAIN W/ LATCH GR8	2
10	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10X2-1/2 GR5	1
11	1-861-010034-17	WASHER, SPLIT LOCK 3/4	5

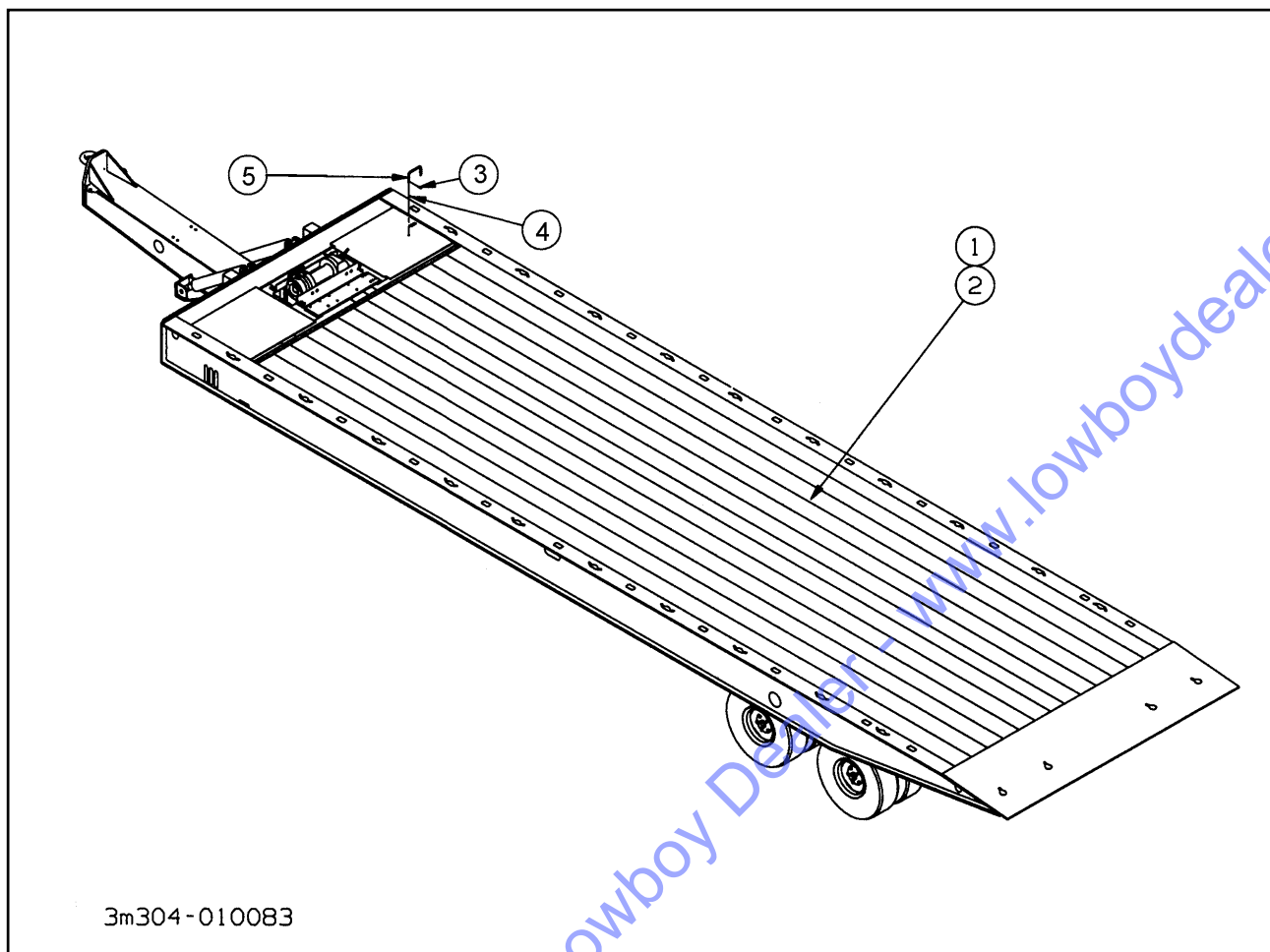


Figure 1-3 Floor, Wood (Apitong)

FLOOR, WOOD (APITONG)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-304-010083-01	FLOOR WOOD APITONG - 96	
	3-304-010083-02	FLOOR WOOD APITONG - 102	
1	RWD39000	APITONG 1-3/8 X 7.08	AR
2	3-654-010129-1	SCREW TORQUE 5/16 X 3	AR
3	1-557-010362-40	PIN COTTER 5/32X1-1/4	2
4	1-861-010032-11	WASHER FLAT 3/8	2
5	3-360-010014	HANDLE TOOL COMP	1

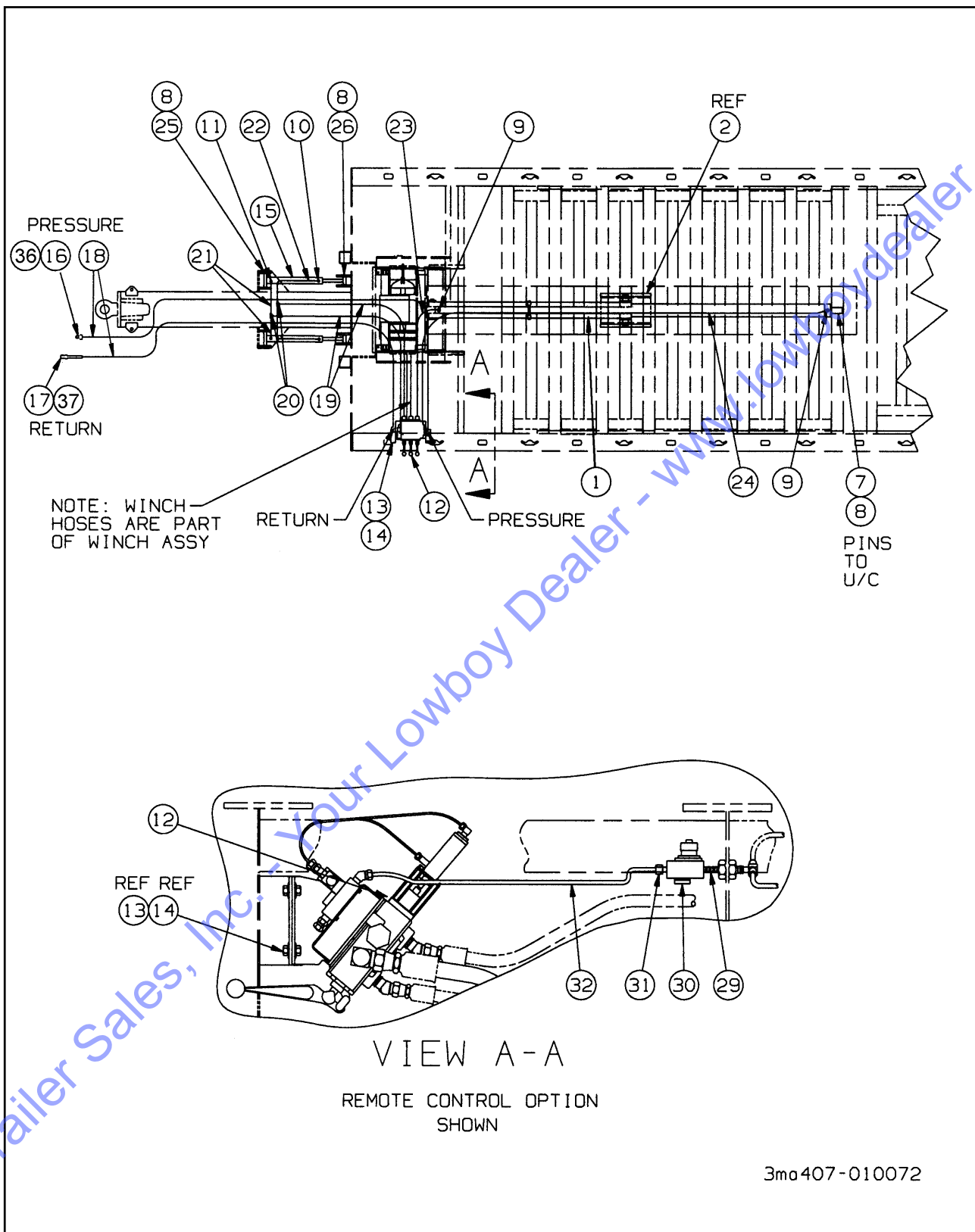


Figure 1-4 Hydraulic Assembly

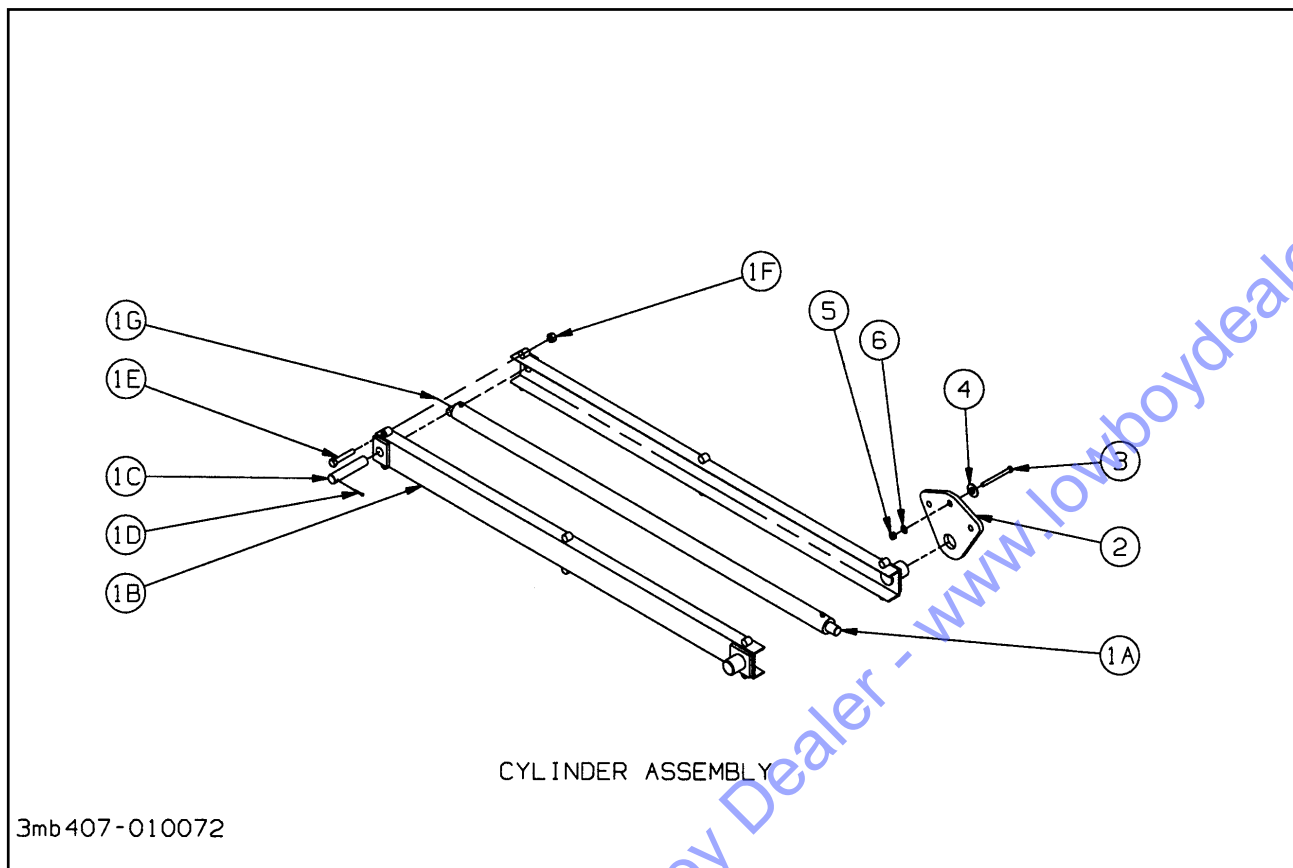


Figure 1-5 Hydraulic Assembly

HYDRAULIC ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010072-01	HYDRAULIC ASSEMBLY STANDARD (4' OR 5')	
	3-407-010072-02	HYDRAULIC ASSEMBLY REMOTE WINCH (4' OR 5')	
	3-407-010072-03	HYDRAULIC ASSEMBLY REMOTE TRI (4' OR 5')	
	3-407-010072-04	HYDRAULIC ASSEMBLY REMOTE WINCH/TILT (4' OR 5')	
	104089	HYDRAULIC ASSEMBLY STANDARD (7')	
	104090	HYDRAULIC ASSEMBLY REMOTE WINCH (7')	
	104091	HYDRAULIC ASSEMBLY REMOTE TRI (7')	
	104092	HYDRAULIC ASSEMBLY REMOTE WINCH/TILT (7')	
1	3-242-010153	CYL ASSY STD LOAD ANGLE	1
1A	3-242-010102	CYL HYD 4X126 O-RING (SEE PAGE 1-8)	1
1B	3-120-010073	BRACKET ASSY CYL TRUNNION	2
1C	3-557-010033	PIN CYL BUTT END	1
1D	1-557-010362-54	PIN COTTER 3/16X2-1/4	1
1E	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13X6 GR5	6
1F	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
1G	1-298-010001-1	FITTING GREASE 1/4-28	1
2	3-125-010241	BRACKET CYLINDER MOUNT	2
3	1-654-010061-06	SCREW HEX HEAD CAP 3/4-10X2-1/4 GR5	6
4	3-861-010038	WASHER STEP	6
5	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	6
6	1-861-010032-21	WASHER FLAT 3/4	6

HYDRAULIC ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
7	3-557-010120	PIN UNDERCARRIAGE CYLINDER	1
8	1-557-010362-54	PIN COTTER 3/16X2-1/4	6
9	2062-8-8S	ADAPTER 90°	2
10	2024-8-8S	ADAPTER 90° FLARE 37°	2
11	2023-8-8S	ADAPTER 45°	2
12	3-846-010163-01	VALVE ASSY 3 SPL XT STD (SEE PAGE 1-11)	1
	3-846-010163-05	VALVE ASSY 3 SPL XT REM 2ND SPOOL (SEE PAGE 1-11)	1
	3-846-010163-10	VALVE ASSY 3 SPL XT REM 3 SPOOLS (SEE PAGE 1-11)	1
	3-846-010163-07	VALVE ASSY 3 SPL XT REM 1ST/2ND SPL(SEE PG 1-11)	1
13	1-510-010001	NUT FLANGE LOCK 3/8-16	4
14	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16X1-1/2	4
15	PMC5624	CYLINDER 4X24 (4' OR 5') (SEE PAGE 1-9)	2
	104088	CYLINDER 4X20-1/4 (7') (SEE PAGE 1-9)	**2
	104087	STOP, CYL 4" BORE	2
16	105479	COUPLER MALE HALF 3/4	1
17	105480	COUPLER FEMALE HALF 3/4	1
18	106759	HOSE ASSEMBLY 1/2X164 (4' OR 5')	2
	106711	HOSE ASSEMBLY 1/2X198 (7')	2
19	1-397-010301108	HOSE ASSEMBLY 1/2X108	2
20	3-299-010016	TEE 37 FLARE	2
21	1-397-010301025	HOSE ASSEMBLY 1/2X25	2
22	1-397-010301048	HOSE ASSEMBLY 1/2X48	2
23	1-397-010301054	HOSE ASSEMBLY 1/2X54	1
24	1-397-010301184	HOSE ASSEMBLY 1/2X184	1
25	3-557-010033	PIN CYLINDER BUTT END A	2
26	3-557-010032	PIN CYLINDER ROD END A	2
27	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	25
29	1-297-010019-05	FITTING BRASS PIPE	1*
30	905-54-107	VALVE AND FILTER PRESSURE (NO PARTS BREAKDOWN)	1*
31	1-297-010007-05	FITTING AIR	1*
32	1-833-010001	NYLON TUBING	3*
36	105481	COUPLER, DUST CAP MALE	1
37	105482	COUPLER, DUST CAP FEMALE	1

* NOTE: THESE ITEMS ARE USED ON P/N'S 3-407-010072-02, 3-407-010072-03, & 3-407-010072-04 ONLY.

** NOTE: THIS ITEM USED ON TRAILERS WITH A 7' HITCH.

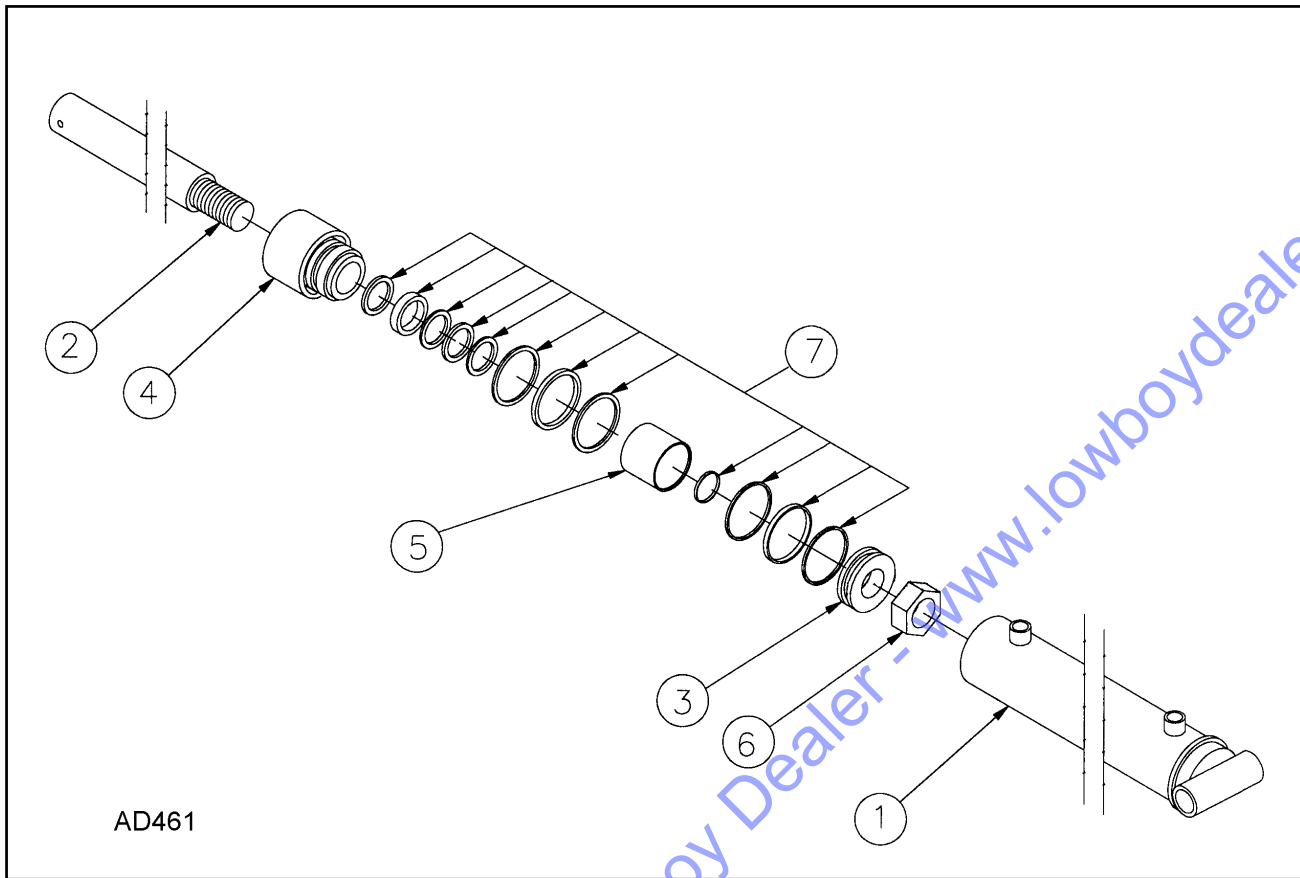


Figure 1-6 Cylinder, Hydraulic 4 X 126

CYLINDER, HYDRAULIC 4 X 126

ITEM	PART NO.	DESCRIPTION	QTY
	3-242-010102	CYLINDER, HYDRAULIC 4 X 126 (STD LOAD ANGLE)	
1	*	BUTT AND TUBE ASSY (ALTERED PER 3-242-010102)	1
2	011300179	PISTON ROD	1
3	071900195	PISTON	1
4	081900277	GLAND	1
5	211300024	SPACER	1
6	220000212	LOCKNUT (1-1/4-12)	1
7	PMCK-AD-461	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

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

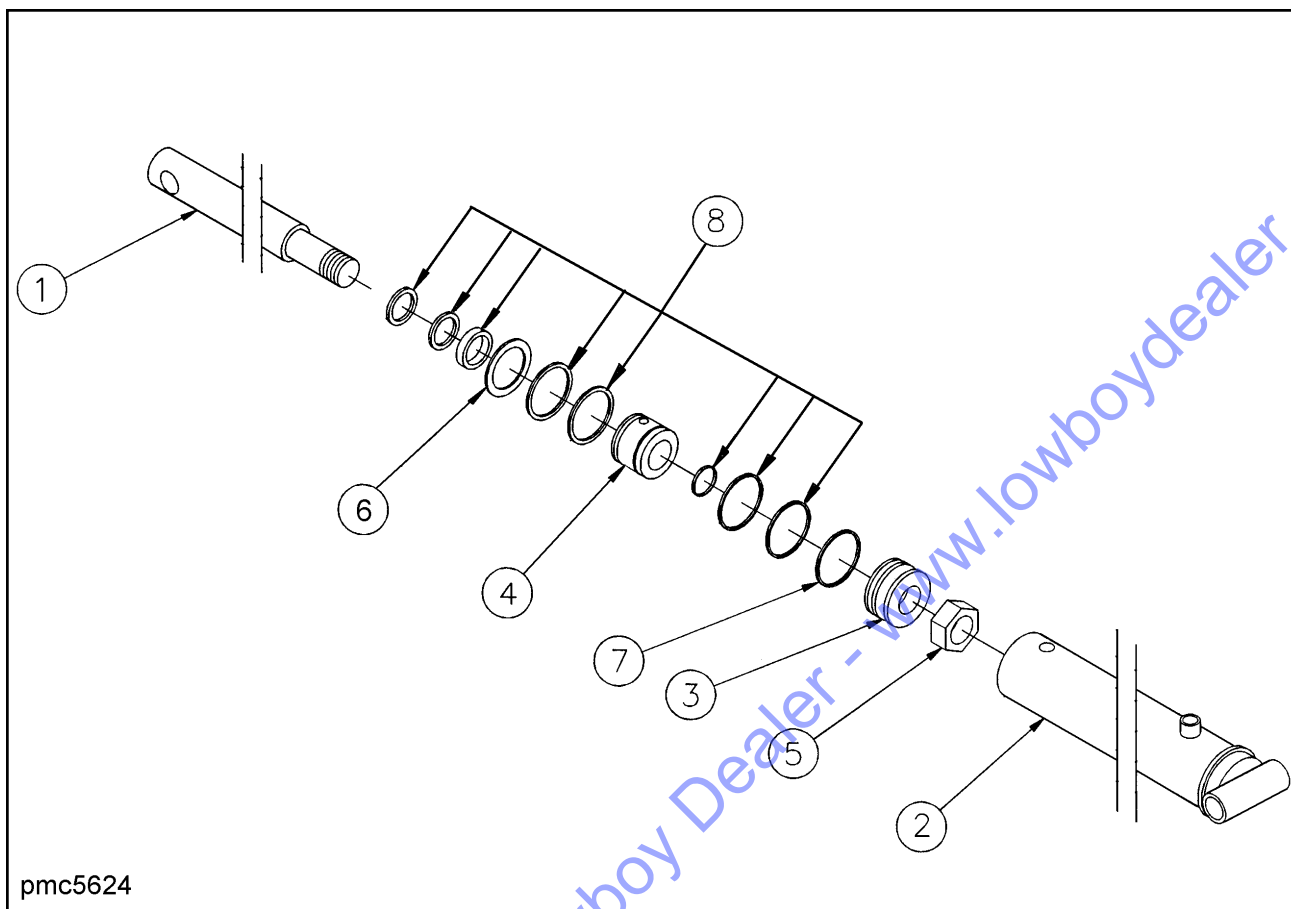


Figure 1-7 Cylinder, Hydraulic 4 X 24

CYLINDER, HYDRAULIC 4 X 24

ITEM	PART NO.	DESCRIPTION	QTY
	PMC5624	CYLINDER, HYDRAULIC 4 X 24	
	104088	CYLINDER 4X20-1/4	2
1	011100075	PISTON ROD	1
2	061900039	BUTT AND TUBE ASSEMBLY	1
3	071900019	PISTON	1
4	081900019	GLAND	1
5	220000212	LOCKNUT (1/4-12)	1
6	230001400	SNAP RING	1
7	240004008	PISTON RING	1
8	PMCK5600	PACKING KIT (ITEMS 8-14) (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	

VALVE ASSEMBLY - 3 SPOOL

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	3-846-010163-01	VALVE ASSEMBLY - 3 SPOOL XT, STD(ITEMS 1-7 ONLY)	
	3-846-010163-05	VALVE ASSEMBLY - 3 SPOOL XT REMOTE 2ND SPOOL	
	3-846-010163-10	VALVE ASSEMBLY - 3 SPOOL XT REMOTE 3 SPOOL	
	3-846-010163-07	VALVE ASSY 3 SPL XT REM 1ST/2ND SPL	1
1	3-482-010575	MOUNT WELDMENT VALVE	1
2	3-846-010008	VALVE 3-SPOOL, 2500 PSI (SEE PAGE 1-13)	1
3	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3
6	2062-12-12S	ADAPTER 90	2
7	2061-8-8S	ADAPTER 45	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 (NO PARTS BREAKDOWN)	*1,2,3
13	1-297-010008-01	FITTING, AIR 90	*1,2,3
14	NB-2-016	TUBING, NYLON FLEX	*1,2,3
15	68CA-2-2	CONNECTOR	*3,6,9
16	NB-2-016	TUBING, NYLON FLEX	*1,2,3
17	3-843-010025	VALVE, PNEUMATIC MANIFOLD - 2 STATION(NO PARTS)	*1,1,0
18	3-843-010023	VALVE, PNEUMATIC MANIFOLD - 4 STATION(NO PARTS)	*0,0,1
19	1-654-010024014	SCREW MACHINE FILLISTER #6-32 X 1-1/2	4
20	1-861-010032-01	WASHER FLAT #6	4
21	1-512-010003-02	NUT, HEX LOCK #6-32	4
22	3-843-010015	VALVE, PNEU 4-WAY, 3-POS(NO PARTS BREAKDOWN)	*1,2,3
23	3-843-010024	VALVE , BLANK STATION COVER(NO PARTS BREAKDOWN)	*1,0,1
24	1-297-010013-05	FITTING, AIR 45	1
25	1-297-010033-02	FITTING PLUG HEX PIPE 1/4	3
26	3-136-010001-02	BREATHER, PNEUMATIC EXHAUST	2

*NOTE: FIRST QUANTITY LISTED IS FOR PART NUMBER 3-846-010163-05, SECOND QUANTITY LISTED IS FOR PART NUMBER 3-846-010163-07, AND THIRD QUANTITY LISTED IS FOR PART NUMBER 3-846-010163-10.

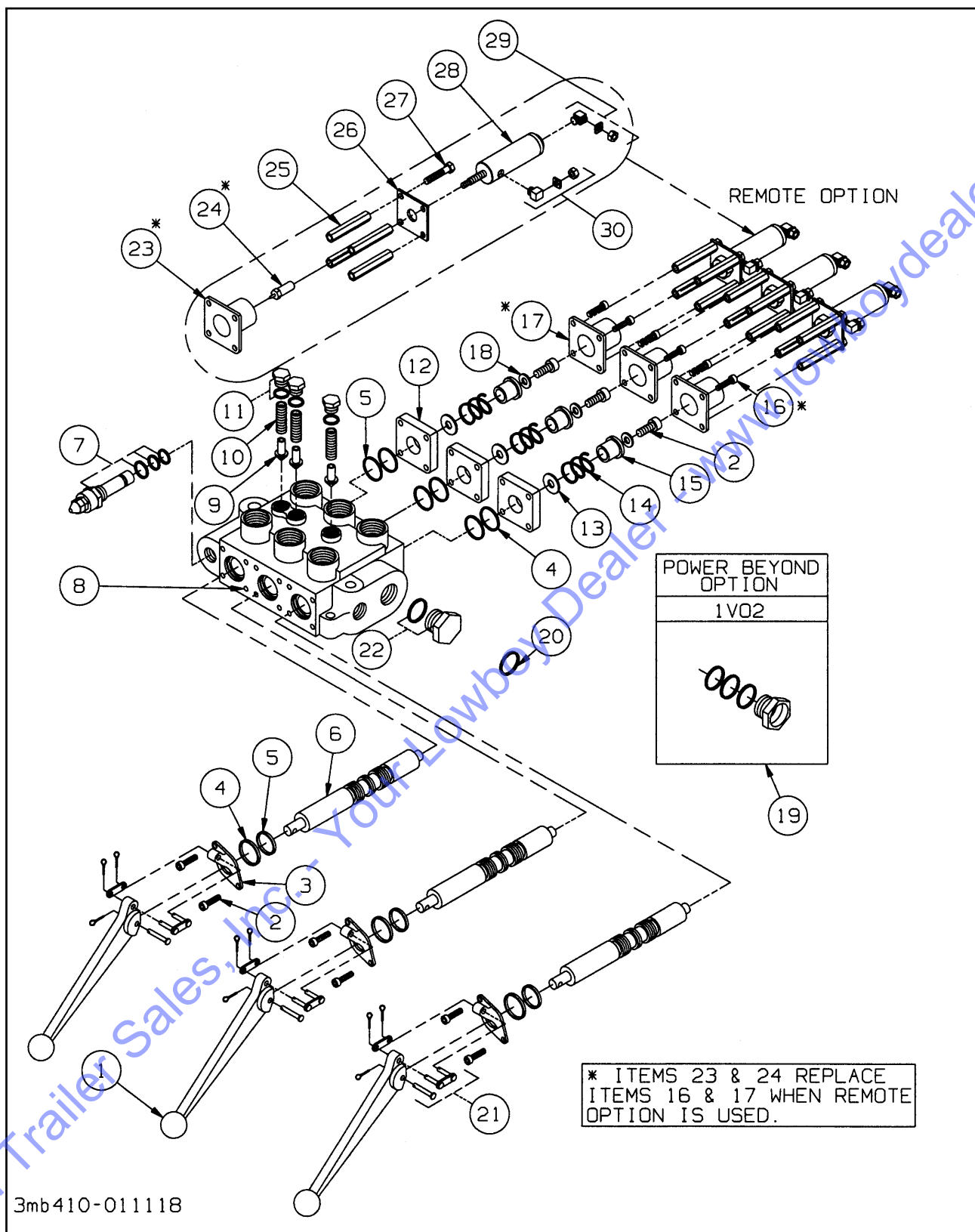


Figure 1-9 Three Spool Valve

VALVE, THREE SPOOL

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	3-846-010008	VALVE ASSEMBLY, COMPLETE THREE SPOOL	
1	1V1703	VALVE HANDLE	3
2	2A0079-404	CAP SCREW (TIGHTEN TO 7-11 FT. - LBS.)	9
3	4Z4306	BRACKET, HANDLE	3
4	1A0711	WASHER, O-RING SPOOL	6
5	2A0283-7214	SEAL, SPOOL	6
6	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	CAP SCREW (TIGHTEN TO 7-11 FT. - LBS.)	12
17**	1A0294	CAP, END	3
18	1A0290	WASHER, CENTERING SPRING	3
19	1V0208	ADAPTER ASSEMBLY, REMOTE POWER BEYOND (CONTAINS ALL NECESSARY O-RINGS)	1
20	2A283-7214	GROMMET, RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG, CONVERSION	1
23**	3-161-010034	CAP, MODIFIED, VALVE SPOOL	1
24**	1-007-010029	ADAPTER, SWIVEL	1
25	3-711-010055	SPACER	4
26	3-482-010288	MOUNT, AIR CYLINDER VALVE	1
27	1-654-010047-02	SCREW, HEX CAP	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.

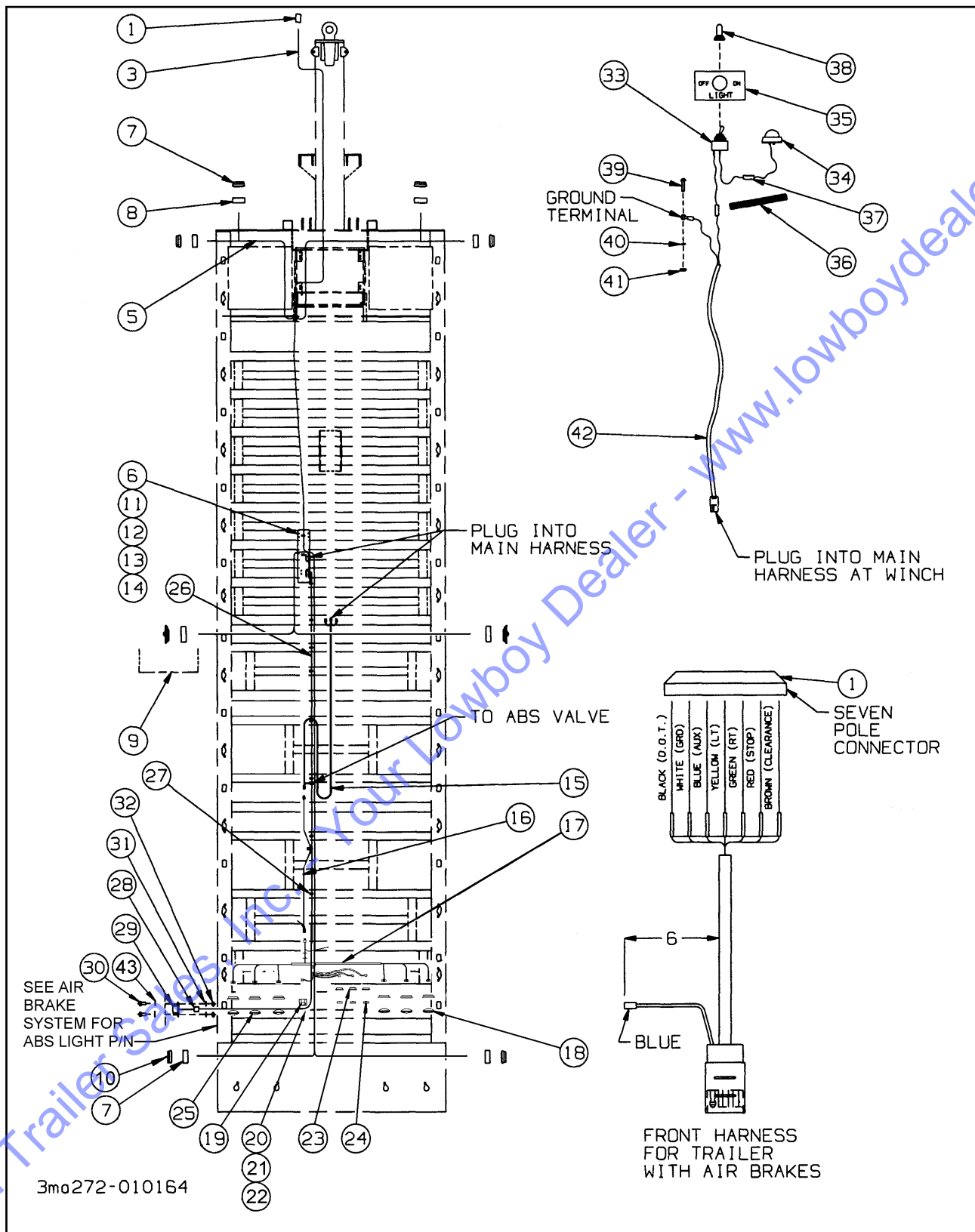
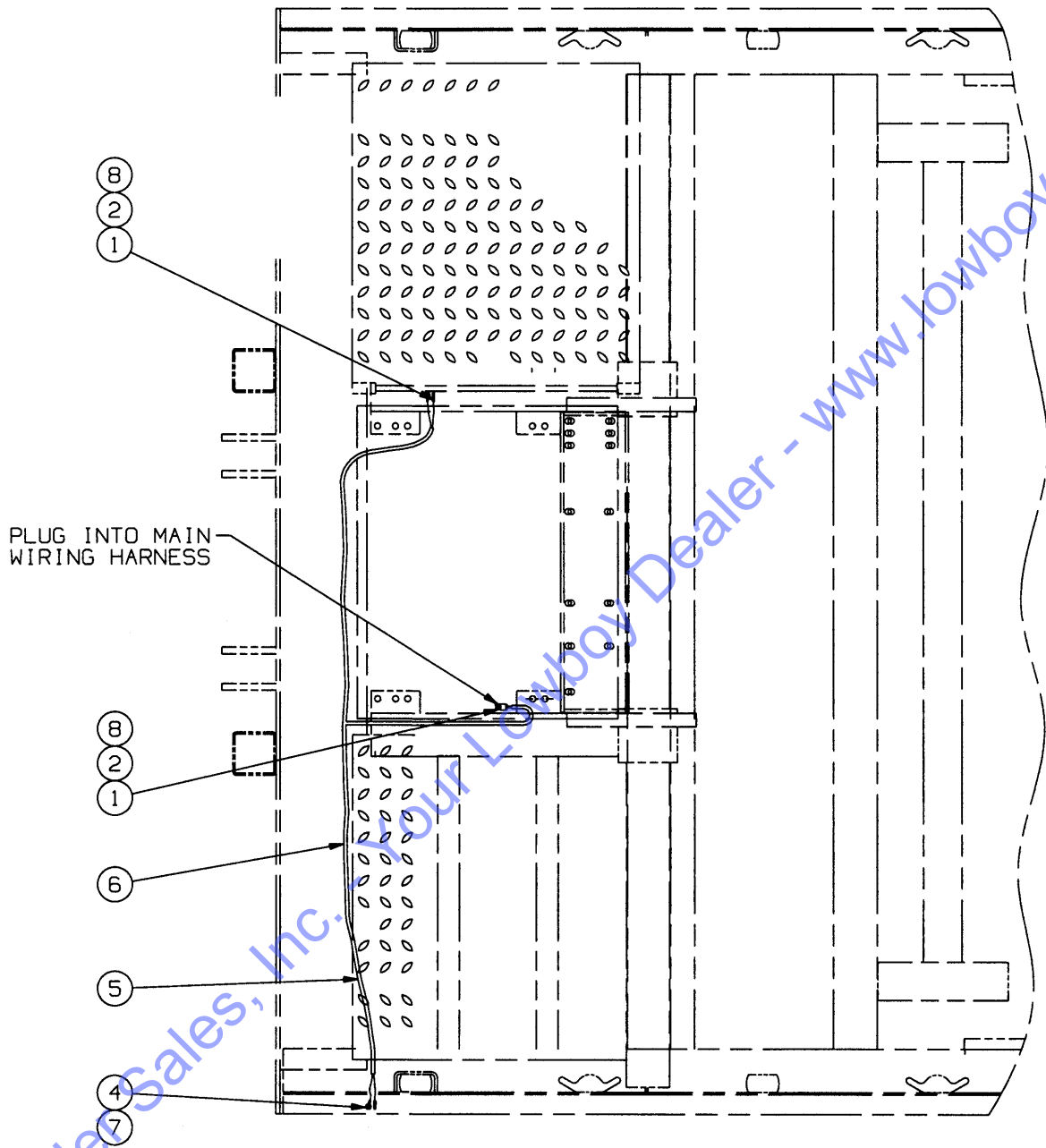


Figure 1-10 Electrical Assembly

ELECTRICAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	104037	ELECTRICAL ASSEMBLY 7 POLE (ITEMS 1-14)	
	124015	U/C ASSY , SPRING, 102 W/O DOCK LEVEL (ITEMS 15-25)	
	124014	U/C ASSY , SPRING, 102 W/ DOCK LEVEL (ITEMS 15-25)	
	122256	U/C ASSY , A/R, 102 W/O DOCK LEVEL (ITEMS 15-25)	
	112929	U/C ASSY , A/R, 102 W/ DOCK LEVEL (ITEMS 15-25)	
	3-272-010169	ELECTRICAL 7-PIN REAR OPTION (ITEMS 26-32, 43)	
	3-272-010170	ELECTRICAL COURTESY LIGHT OPTION (ITEMS 33-42)	
1	59P8	RECEPTACLE 7 PIN WITH GUARD	1
3	104035	HARNESS ASSEMBLY FRONT MAIN - 7 POLE ABS	1
5	104036	HARNESS ASSEMBLY CENTER MAIN ABS	1
6	3-181-010034-1	CLAMP CONDUIT STEEL 1/2	2
7	10403	GROMMET MOUNT	6
8	10205Y	REFLECTOR LAMP YELLOW	4
9	60015Y	LIGHT TURN AND CLEARANCE	2
10	10205R	REFLECTOR LAMP RED	2
11	1-656-010003051	SCREW ROUND HEAD MACHINE 10-24X3/4	2
12	1-861-010032-03	WASHER FLAT #10	2
13	1-861-010034-07	WASHER SPLIT LOCK #10	2
14	1-512-010007-03	NUT HEX #10-24	2
15	102836	HARNESS ASSEMBLY E-CHAIN ABS	1
16	102728	HARNESS ASSEMBLY, U/C MAIN	1
17	106652	HARNESS, BUMPER	1
18	106371	LIGHT STOP TURN TAIL	4
19	15009	LICENSE LAMP	1
20	1-656-010003051	SCREW ROUND HEAD MACHINE #10-24X3/4	2
21	1-861-010034-07	WASHER SPLIT LOCK #10	2
22	1-512-010007-03	NUT HEX #10-24	2
23	107598	GROMMET RECT C/MKR LAMP	3
24	107599	LIGHT RED CLEARANCE MARKER	3
25	108647	LIGHT, TURN YELLOW W/ GROMMET	4
26	3-368-010289	HARNESS REAR ACC 7-PIN	1
27	3-181-010034-1	CLAMP CONDUIT STEEL 1/2	13
28	59W-2-3	RUBBER BOOT	1
29	59S-7	RECEPTACLE, 7 PIN	1
30	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
31	1-861-010034-10	WASHER, SPLIT LOCK 5/16	2
32	1-512-010007-06	NUT, HEX 5/16-18	2
33	3-272-010017	TOGGLE SWITCH SEALED SPST	1
34	26331	LIGHT COURTESY	1
35	3-573-010437	DECAL LIGHT VALVE SUPPORT	1
36	3-201-010001	CONDUIT 5/16 PLASTIC FLEX	1'
37	3-272-010021	ELECT BUTT SPLICE 16-14 W/ SEAL	2
38	81264	RUBBER BOOT FOR ELECT SWITCH	1
39	1-656-010003051	SCREW, RD HEAD SQ NECK #10-24 X 3/4	1
40	1-861-010034-07	WASHER, SPLIT LOCK #10	1
41	1-512-010007-03	NUT, HEX #10-24	1
42	3-368-010290	HARNESS, COURTESY LIGHT	1
43	1-861-010032-09	WASHER, FLAT 5/16	2



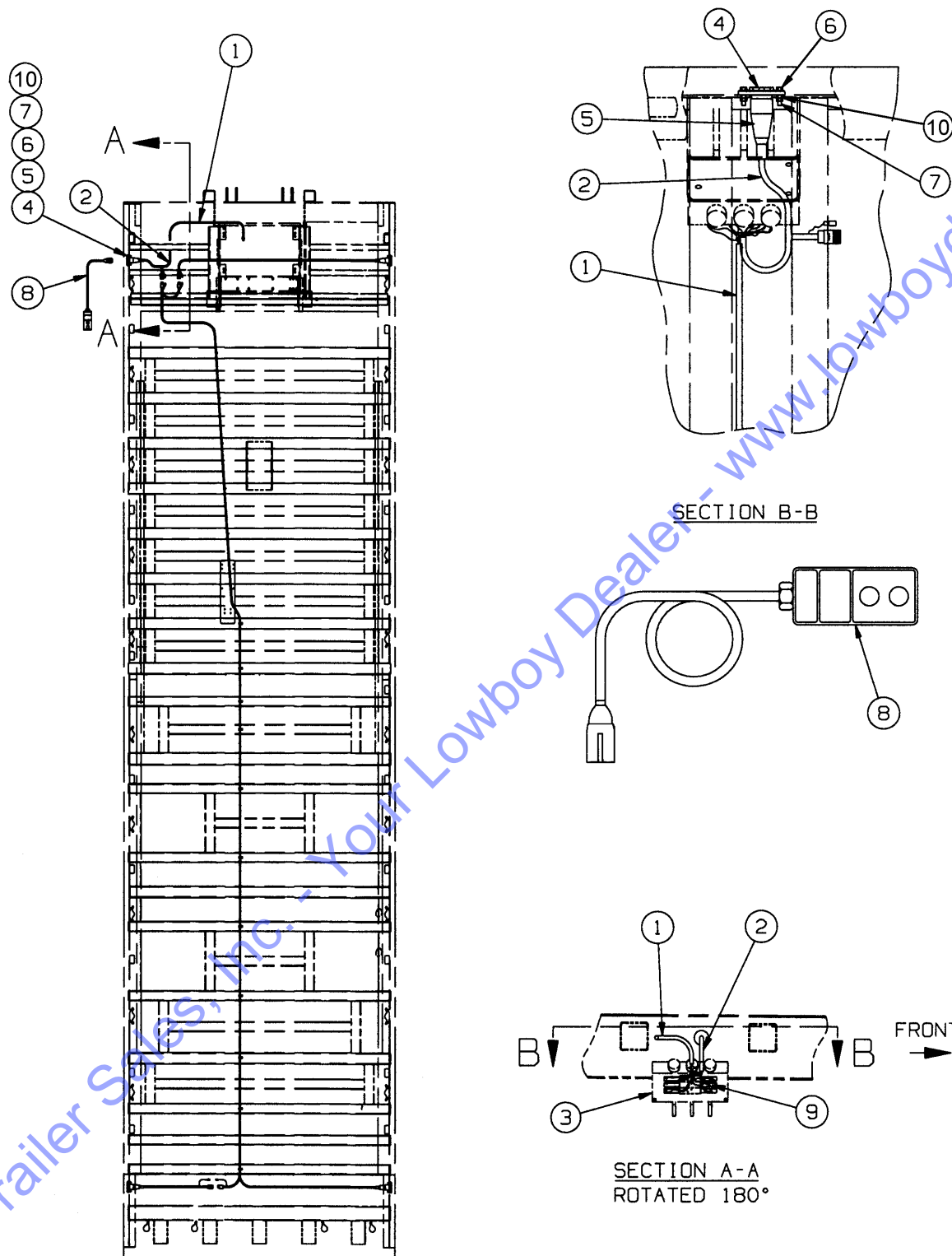
3mo272-010165

Figure 1-11 Winch Light Assembly (Option)

WINCH LIGHT ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010165-01	LIGHT, WINCH SINGLE	
	3-272-010165-02	LIGHT, WINCH DUAL	
1	1-512-010005-05	NUT HEX LOCK GRB 3/8-16	*1, 2
2	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16X1 GR5	*1, 2
3	1-796-010003-02	TIE STRAP PLASTIC 18X14.19 (NOT SHOWN)	6
4	3-272-010017	TOGGLE SWITCH SEALED	1
5	3-272-010021	ELECTRICAL BUTT SPLICE 16-14	2
6	3-368-010282	HARNESS ASSEMBLY WINCH LIGHT	1
7	3-573-010273	DECAL WINCH LIGHT	1
8	64181	RECTANGULAR QUARTZ HALOGEN LAMP	*1, 2

*NOTE: 1ST QUANTITY LISTED IS FOR P/N 3-272-010165-01, 2ND QUANTITY LISTED IS FOR P/N 3-272-010165-02.



3ma272-010148

Figure 1-12 Electrical Installation - Remote Control
(Option)

ELECTRICAL INSTALLATION - REMOTE CONTROL (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010148-01	ELECTRICAL INSTALLATION, SINGLE REMOTE WINCH	
	3-272-010148-03	ELECT. INST., DUAL REMOTE, WINCH/TILT	
	3-272-010148-06	ELECT. INST., TRIPLE REMOTE, WINCH/TILT/U/C	
1	3-368-010245-01	HARNESS POWER JUMPER	1
2	3-368-010246	HARNESS FRONT REMOTE	1
3	3-846-010163-05	VALVE ASSY 3 SPL XT REM 2ND SPOOL (SEE PAGE 1-11)	REF
	3-846-010163-10	VALVE ASSY 3 SPL XT REM 3 SPOOLS (SEE PAGE 1-11)	REF
	3-846-010163-07	VALVE ASSY 3 SPL XT REM 1ST/2ND SPL(SEE PAGE 1-11)	REF
4	3-272-010125	RECEPTACLE 7 PIN	1
5	59W-2-3	RUBBER BOOT	1
6	1-654-010049-06	SCREW HEX HEAD 5/16-18 X 1-1/4 GR5	2
7	1-512-010007-06	NUT HEX 5/16-18 GRB	2
8	3-765-010001	SWITCH REMOTE CONTROL ASSY (SEE PAGE 1-59)	1
	3-209-010004-01	CONTROL ELECT DUAL FUNC RMT (SEE PAGE 1-59)	1
	3-209-010006-01	CONTROL REMOTE WINCH/TILT/U/C (SEE PAGE 1-59)	1
9	1-660-010006	SEALANT ELECTRICAL DOW CORNING	AR
10	1-861-010034-10	WASHER, SPLIT LOCK 5/16	2

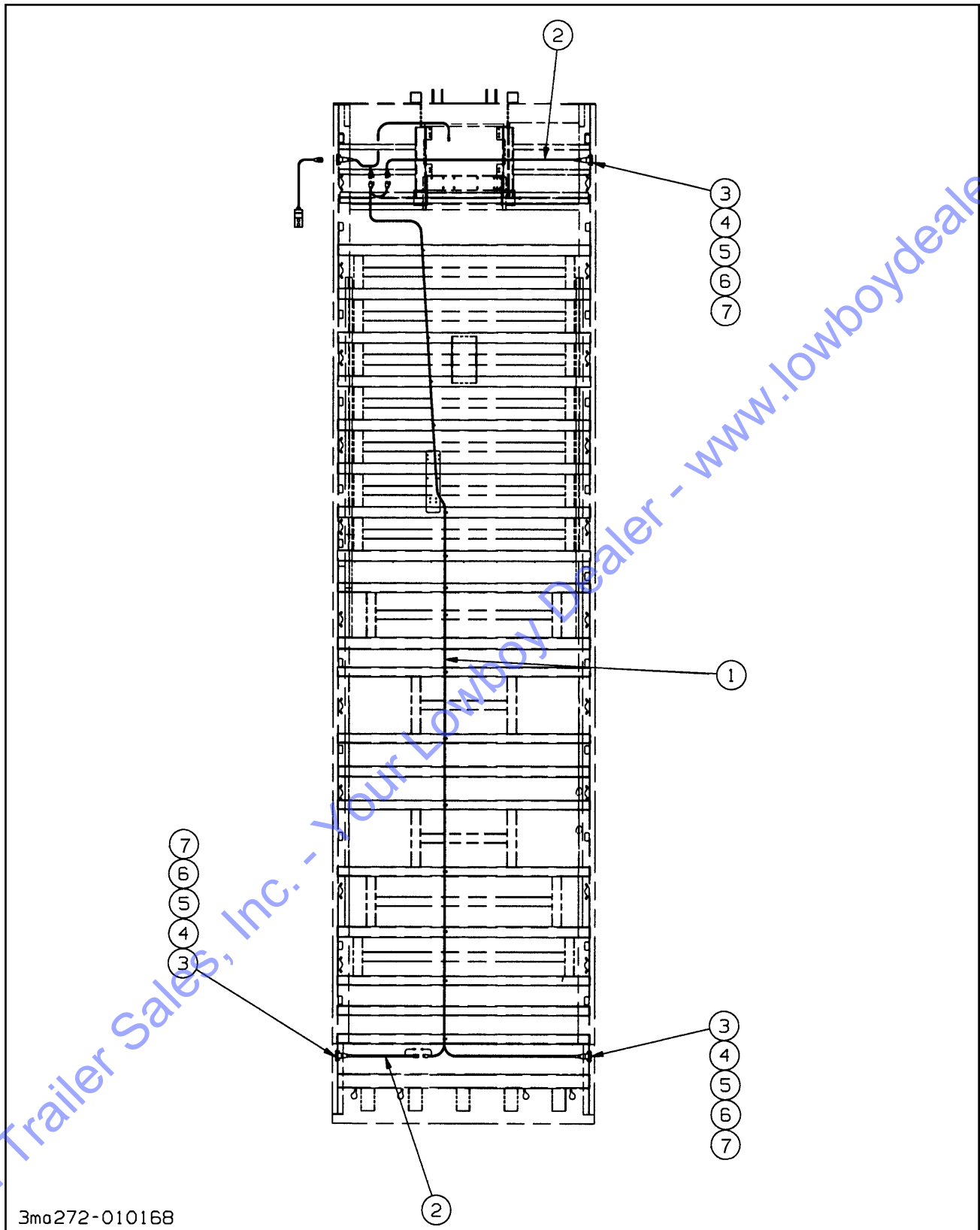
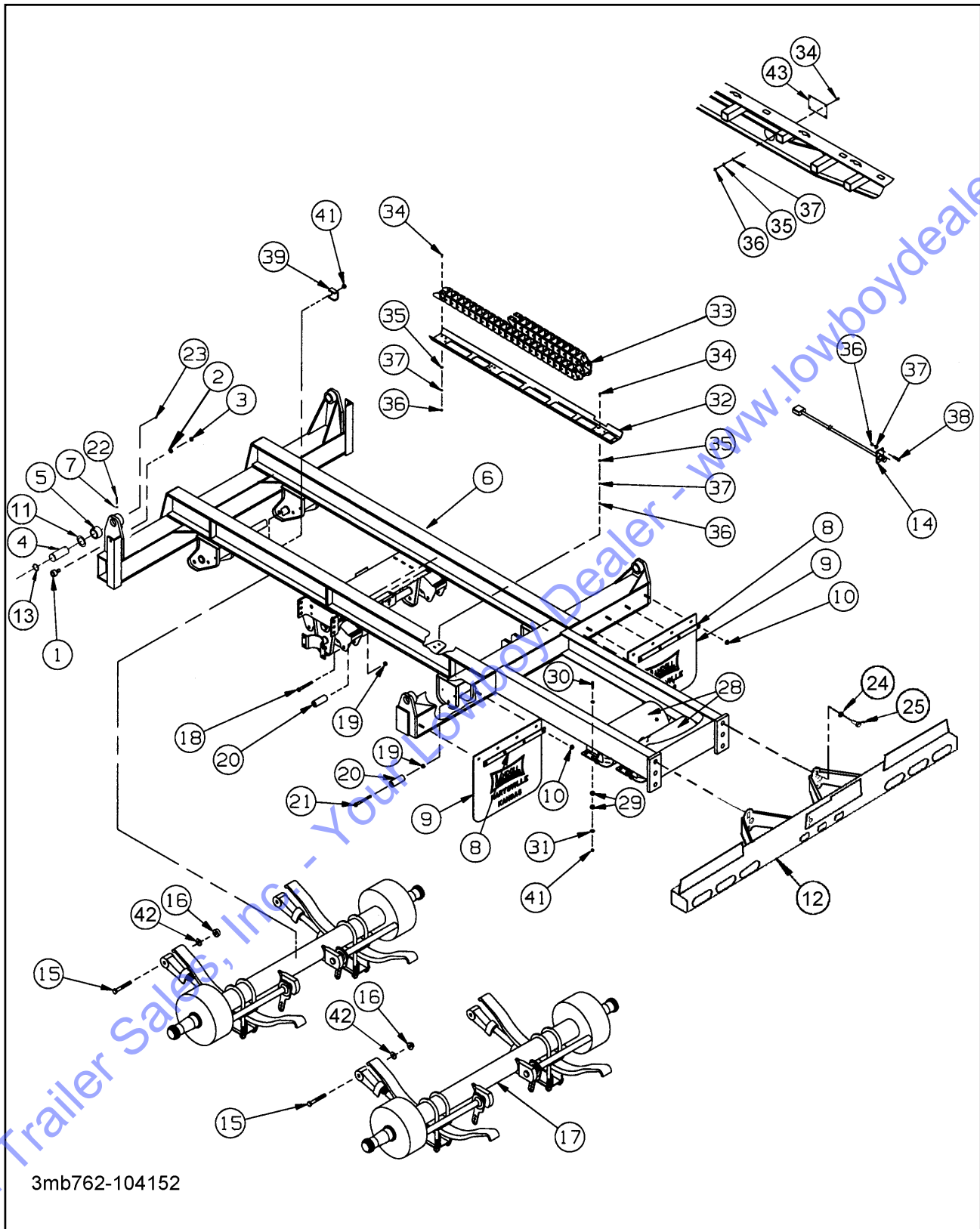


Figure 1-13 Electrical Remote - Accessory Location
(Option)

ELECTRICAL REMOTE - ACCESSORY LOCATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.			
	3-272-010168-01	ELECTRICAL REMOTE ACC REAR LH OR RH	*			
	3-272-010168-02	ELECTRICAL REMOTE ACC FRONT RH	*			
	3-272-010168-03	ELECTRICAL REMOTE ACC REAR LH AND RH	*			
	3-272-010168-04	ELECTRICAL REMOTE ACC	*			
1	3-368-010284	HARNESS REMOTE REAR	1	-	1	1
2	3-368-010283	HARNESS REMOTE SIDE	-	1	1	2
3	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2	2	4	6
4	3-272-010125	RECEPTACLE 7 PIN	1	1	2	3
5	59W-2-3	RUBBER BOOT	1	1	2	3
6	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2	2	4	6
7	1-861-010032-09	WASHER, FLAT 5/16W	4	4	8	12

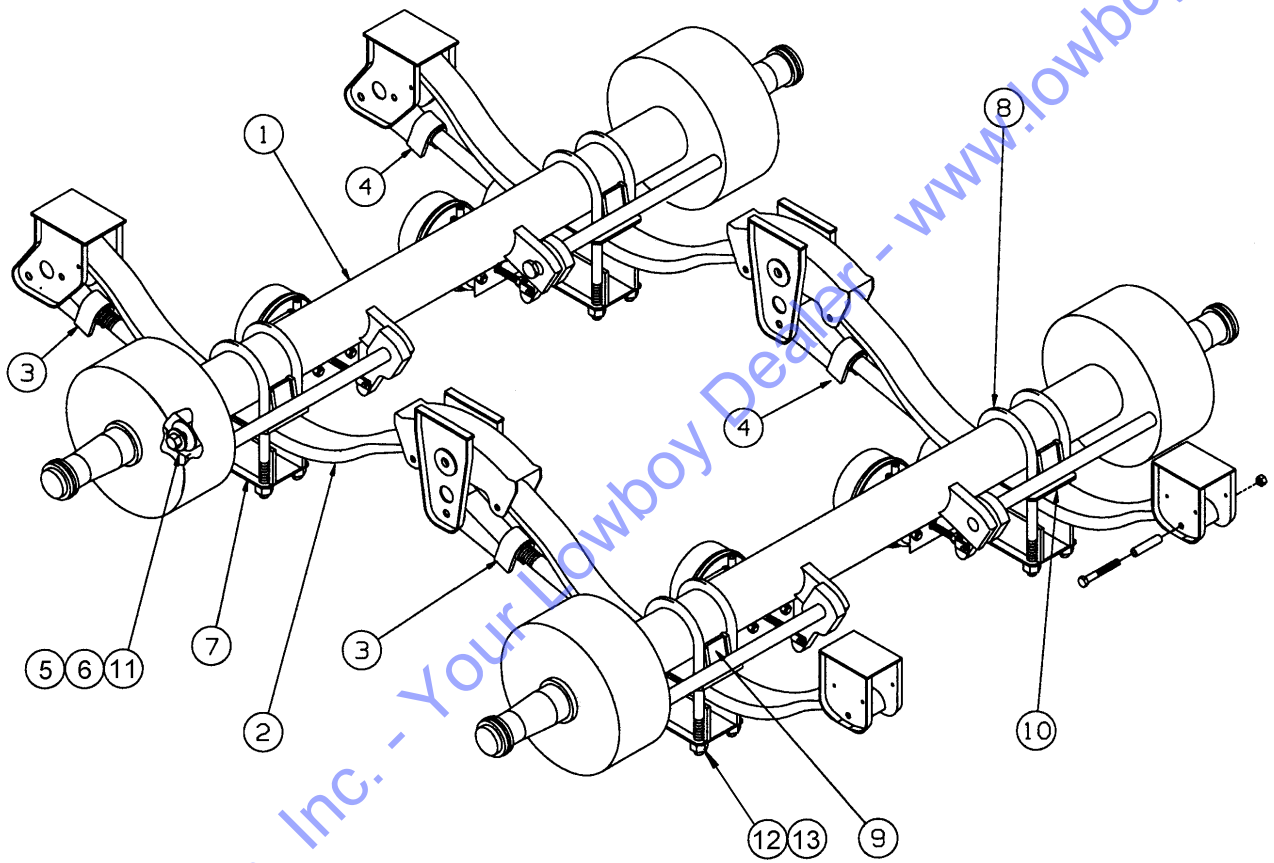


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Figure 1-14 Undercarriage Assembly - Spring Ride

UNDERCARRIAGE ASSY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	124014	U/C ASSEMBLY SPRING 102" W/O BRACKET	
	124015	U/C ASSEMBLY SPRING 102" W/ BRACKET	
1	3-076-010006	CAM FOLLOWER 1-1/2 DIA	REF
2	RRT159X0.5	TUBE ROUND 1X11/16 X 1/2	REF
3	5/8-18 HFN	NUT HEX	REF
4	110437	PIN, ROLLER 5"	4
5	116563	ROLLER, 4" ASSY, FIBERGLIDE	4
6	124011	UNDERCARRIAGE W/O BRACKET	1
	124012	UNDERCARRIAGE W/ BRACKET	1
7	1-511-010001-07	NUT, HEX JAM 5/8-11	4
8	3-762-010017	CLAMP MUD FLAP	2
9	3-485-010001	FLAP MUD 21IN	2
10	1-510-010001	NUT FLANGE LOCK 3/8-16	10
11	114562	BUSHING, MACHINE	6
12	119580	BUMPER WELDMENT, E/P	1
13	1-630-010021-02	RING, RETAINING 2HD	4
14	101852	DIAGNOSTIC CABLE W/ SWITCH	1
15	0001-08	BOLT 7/8-14X5-1/4	4
16	110990	NUT LOCK 7/8-14	4
17	3-762-010691-1	SUSPENSION ASSEMBLY 70.5-39-1/2 (SEE PAGE 1-25)	2
18	0001-04	RETAINER 5/8-18X4-1/2 HEX HEAD	4
19	0002-07	LOCKNUT HEX CENTER 5/8-18	6
20	0741-01	SPRING ROLLER EQUALIZER TRANS	6
21	0001-02	CAPSCREW HEX HEAD 5/8-18X5-1/8	2
22	1-654-010150-05	SCREW, SET SQ. HD. CUP POINT 5/8 X 2	4
23	5029	ZERK FITTING	6
24	622-3511-008	WASHER 3/4 MIL-CARB FL SA&A	14
25	1-654-010032-4	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR8	12
28	3-780-010002	TANK AIR	2
29	805-2	BUSHINGS STEP	16
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	8
31	1-861-010032-11	WASHER FLAT 3/8	16
32	3-821-010005	TRAY CAT-TRACK	1
33	3-755-010189-03	SUPPORT E-CHAIN	1
	3-755-010189-1	LINK	1
	380-1	END MOUNTING BRACKET WITH HOLE	2
	380-2	END MOUNTING BRACKET WITH PIN	2
34	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR5	8
35	1-861-010032-07	WASHER FLAT 1/4	8
36	1-512-010007-05	NUT HEX 1/4-20 GRB	8
37	1-861-010034-09	WASHER SPLIT LOCK 1/4	8
38	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
39	2-181-010001	CLAMP	3
40	104553	BRAKE, ABS TANDEM AXLE (NOT SHOWN)(SEE PAGE 1-31)	1
41	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
42	110991	WASHER, FLAT 7/8 HARDENED	4
43	3-311-010835	COVER ROLLER OPENING	2

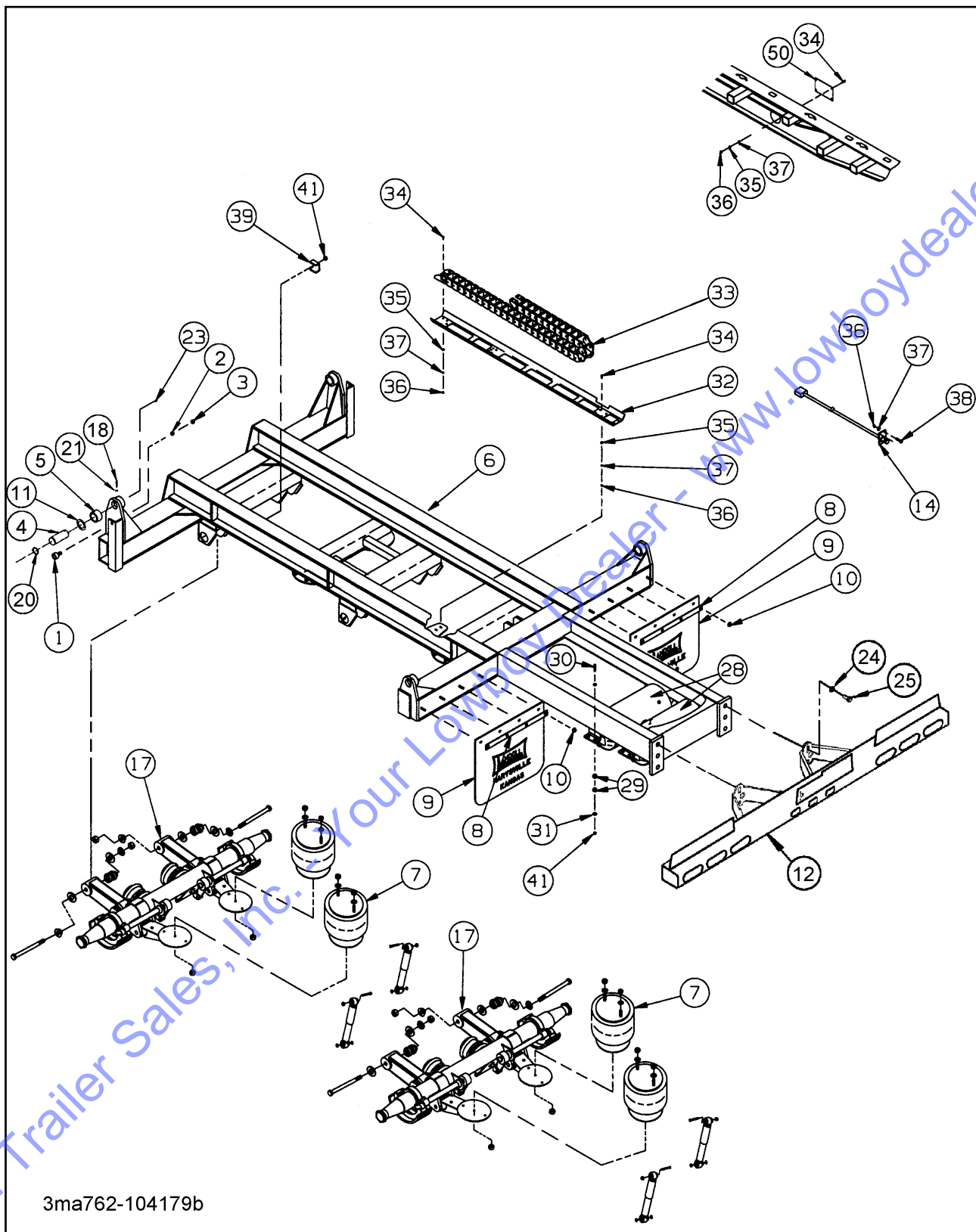


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Figure 1-15 Suspension Assembly - Spring Ride

SUSPENSION ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-762-010691-1	SUSPENSION ASSY S/R 70.5 39-1/2 SPG CTR	
1	115703	AXLE 70-1/2 12-1/4X7-1/2 BRAKE SPG25K(SEE PAGE 1-35)	2
2	3-720-010030	SPRING, MONO LEAF HI ARCH	4
3	1035-20	ADJUSTABLE TORQUE ARM	2
4	0075-20	RIGID TORQUE ARM	2
5	0001-08	BOLT, 7/8-14 X 5-1/4 GR5	4
6	14345-01	LOCKNUT, 7/8-14	4
7	0508-00	BOTTOM PLATE, SINGLE LEAF	4
8	24213-130	U-BOLT, 3/4 X 13	8
9	0647-01	AXLE SEAT, 1" HIGH SINGLE LEAF	4
10	0375-00	DELRIN LINER, SINGLE LEAF	4
11	T7292	WASHER, 7/8	4
12	14344-01	LOCKNUT, 3/4	16
13	20852-01	WASHER. 34	16
	3-432-010006	KIT, AXLE SPRING ATTACH. PARTS (INCL. ITEMS 3-13)	



3ma762-104179b

Figure 1-16 Undercarriage Assembly - Air Ride (1 of 2)

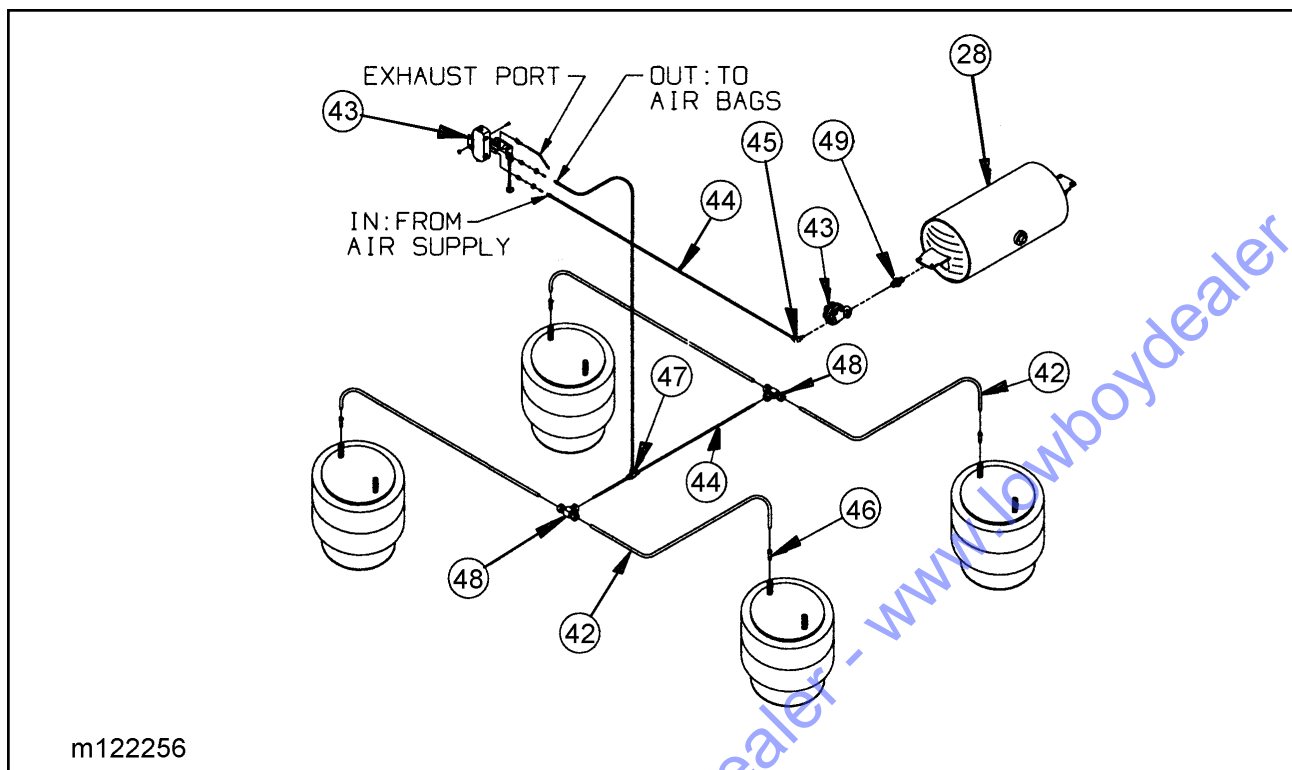


Figure 1-17 Undercarriage Assembly - Air Ride (2 of 2)

UNDERCARRIAGE ASSY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	122256	UNDERCARRIAGE ASSY A/R 102 W/O D/L BRACKET	
	112929	UNDERCARRIAGE ASSY A/R 102 W/ D/L BRACKET	
	3-036-010034	ATTACHMENTS 345	
	124016	ATTACHMENTS 345	
1	3-076-010006	CAM FOLLOWER 1-1/2	REF
2	RRT159 X 0.5	TUBE ROUND 1 X 11/16 X 1/2	REF
3	5/8-18HFN	NUT HEX 5/8-18	REF
4	110437	PIN, ROLLER 5"	4
5	116563	ROLLER, 4" ASSY, FIBERGLIDE	4
6	112928	SUSPENSION WELDMENT 102 A/R	1
7	102363	SUSPENSION ADJ. RLU-228-3.5 (SEE PAGE 1-33)	2
8	3-762-010017	CLAMP MUD FLAP	2
9	3-485-010001	FLAP MUD 21IN	2
10	1-510-010001	NUT 3/8-16 FLANGE LOCK	11
11	114562	BUSHING, MACHINE	6
12	119580	BUMPER WELDMENT E/P	1
14	101852	DIAGNOSTIC CABLE WITH SWITCH	1
17	115742	AXLE WELDMENT D2212-SPG-70.5 (FOR PARTS BREAKDOWNS, SEE PAGES 1-33 AND 1-35)	2
18	1-654-010150-05	SCREW, SET SQ. HEAD CUP PT. 5/8 X 2	4
19	117493	DOCK LEVEL ASSEMBLY A/R 60K W/ BRACKET (NOT SHOWN)(SEE PAGE 1-73)	1
20	1-630-010021-02	RING, RETAINING 2 HD	4
21	1-511-010001-07	NUT, HEX JAM 5/8-11	4

UNDERCARRIAGE ASSY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
22	#242 LOCKTITE	LOCTITE BLUE REMOVABLE (NOT SHOWN)	AR
23	5029	ZERK FITTING	2
24	622-3511-008	WASHER 3/4 MIL-CARB FL 345A	14
25	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	12
28	3-780-010002	TANK AIR 9.5X22.5 5 PORTS	2
29	805-2	BUSHINGS STEP	16
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	8
31	1-861-010032-11	WASHER FLAT 3/8	16
32	3-821-010005	TRAY CAT-TRACK	1
33	3-755-010189-03	SUPPORT E-CHAIN	1
	3-755-010189-1	LINK	1
	380-1	END MOUNTING BRACKET WITH HOLE	2
	380-2	END MOUNTING BRACKET WITH PIN	2
34	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR5	20
35	1-861-010032-07	WASHER FLAT 1/4	20
36	1-512-010007-05	NUT HEX 1/4-20 GRB	22
37	1-861-010034-09	WASHER SPLIT LOCK 1/4	22
38	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20X1 GR5	2
39	2-181-010001	CLAMP	3
40	104553	BRAKE, ABS TAN AXLE (NOT SHOWN)(SEE PAGE 1-31)	1
41	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
42	1-833-010002	TUBING, NYLON 3/8	13
43	102732	AIR CONTROL KIT (SEE PAGE 1-29)	1
44	1-833-010001	TUBING, NYLON 1/4	13
45	1-297-010008-07	FITTING, AIR 90	1
46	1-297-010013-11	FITTING, AIR 45	4
47	1-297-010010-04	FITTING, AIR UNION TEE	1
48	1-297-010010-03	FITTING, AIR UNION TEE 3/8	2
49	2083-8-4S	NIPPLE, HEX	1
50	3-311-010835	COVER ROLLER OPENING	2

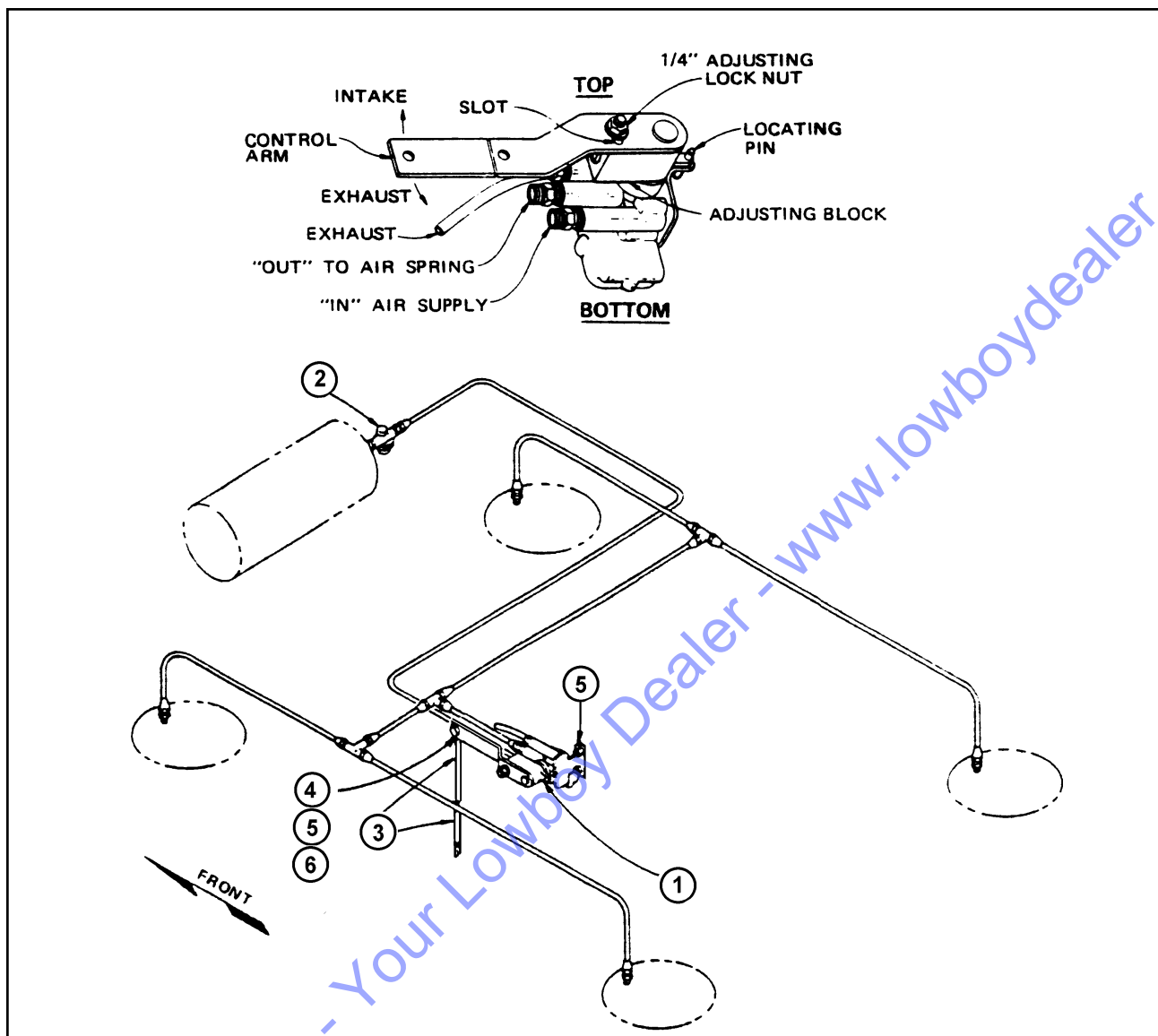
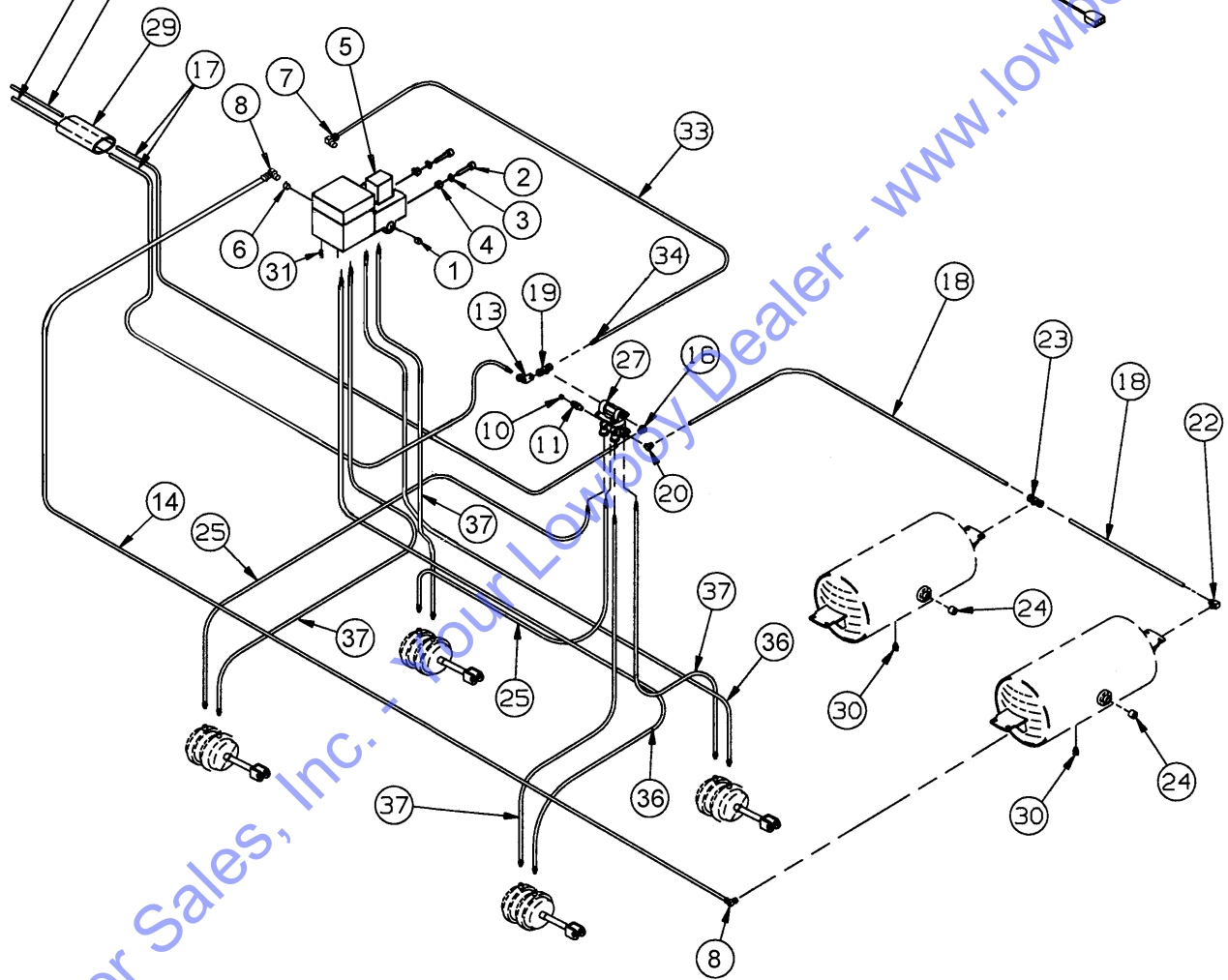


Figure 1-18 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	905-54-107	AIR PRESSURE PROTECTION VALVE & FILTER	1
3	111021	SRK-167 KIT (ADJ. LINK ASSEMBLY)	1
4	1-654-010047-04	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

TO SERVICE PORT
TO EMERGENCY PORT

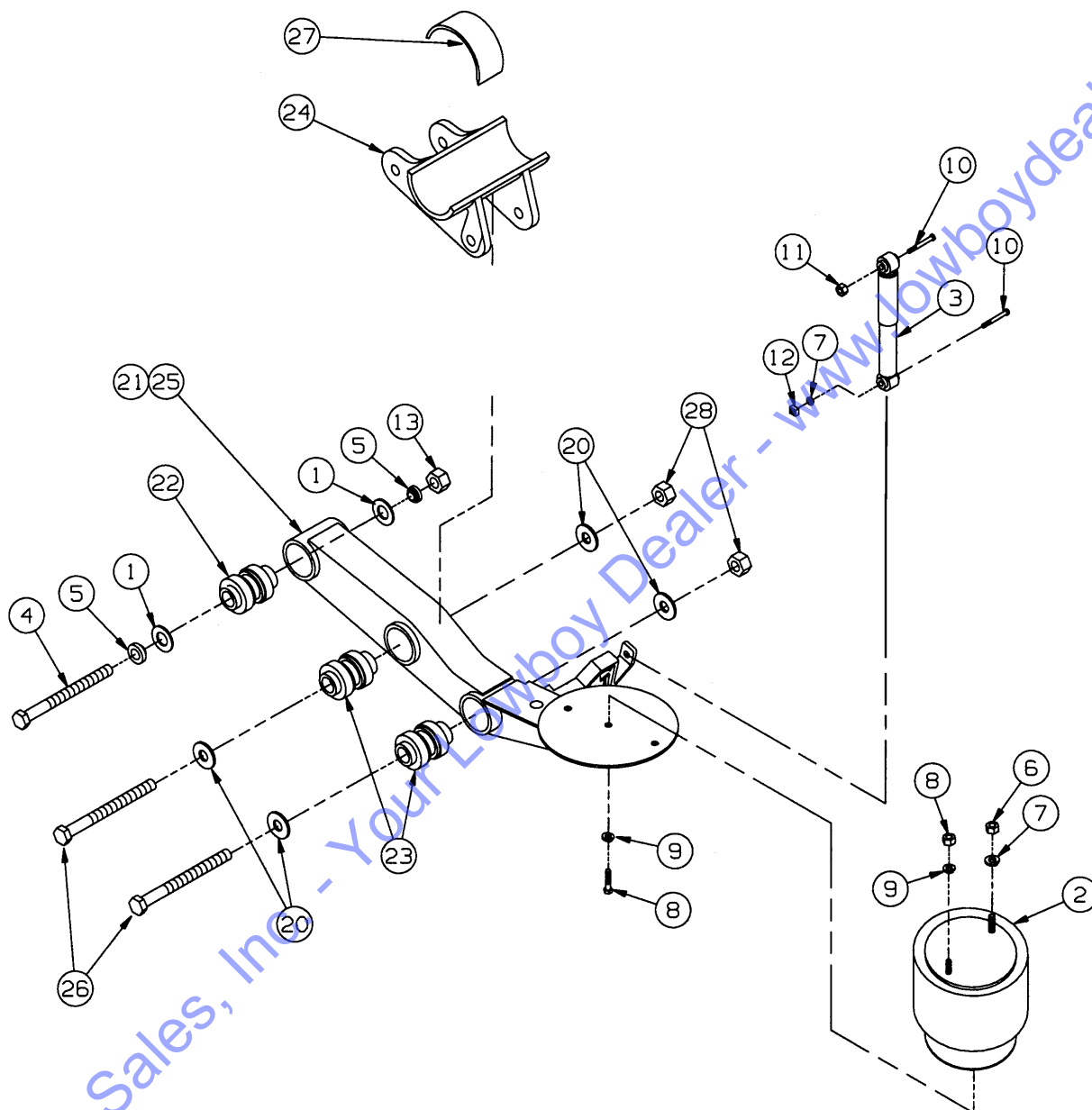


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Figure 1-19 Air Brake System

AIR BRAKE SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	104553	BRAKE ABS TANDEM AXLE A/R	
1	1-560-010002-05	PLUG PIPE 3/4-14	1
2	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16X1-3/4 GR5	2
3	1-861-010032-10	WASHER FLAT 3/8N	4
4	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	2
5	114584	ABS BRAKE KIT WABCO 4S/2M (SEE PAGE 1-37)	1
6	118-2659-9	BUSHING 1/2 X 3/4	1
7	1-297-010008-18	FITTING AIR 90	1
8	1-297-010008-26	FITTING, AIR 90	2
9	3-446-010046	LIGHT ABS LAMP	1
10	1-560-010002-02	PLUG PIPE 1/4	1
11	55B61	FRAME UNION	1
13	2088-6-6S	ADAPTER 45	1
14	117304	TUBING NYLON 5/8	AR
15	3-368-010294	HARNESS, TAN ABS LAMP	1
16	2089-6-6S	ADAPTER 90	1
17	100948	HOSE, AIR 3/8 X 174	2
18	1-833-010003	TUBING NYLON 1/2	AR
19	1-297-010017-03	FITTING BRASS PIPE 3/8	1
20	1-297-010008-23	FITTING AIR 90	1
21	3-755-010189-03	SUPPORT E-CHAIN (NOT SHOWN)	REF
22	1-297-010008-24	FITTING AIR 90	4
23	1-297-010015-11	FITTING AIR BRANCH TEE	2
24	1-560-010002-04	PLUG PIPE 1/2	4
25	1-384-010038056	HOSE AIR 3/8 X 56	2
27	758-181	VALVE TASK 4 PORT	1
29	1-394-010001	HOSE ABRASION SLEEVE X 2	AR
30	56D4	COCK DRAIN AIR TANK	2
31	1-297-010033-03	FITTING, BRASS PLUG HEX	4
33	1-833-010002	TUBING NYLON 3/8	AR
34	1-297-010007-12	FITTING, AIR	1
36	3-384-010025	HOSE, AIR 3/8 X 50	2
37	1-384-010038024	HOSE AIR 3/8X24	4
38	1-796-010003-01	TIE STRAP PLASTIC (NOT SHOWN)	10



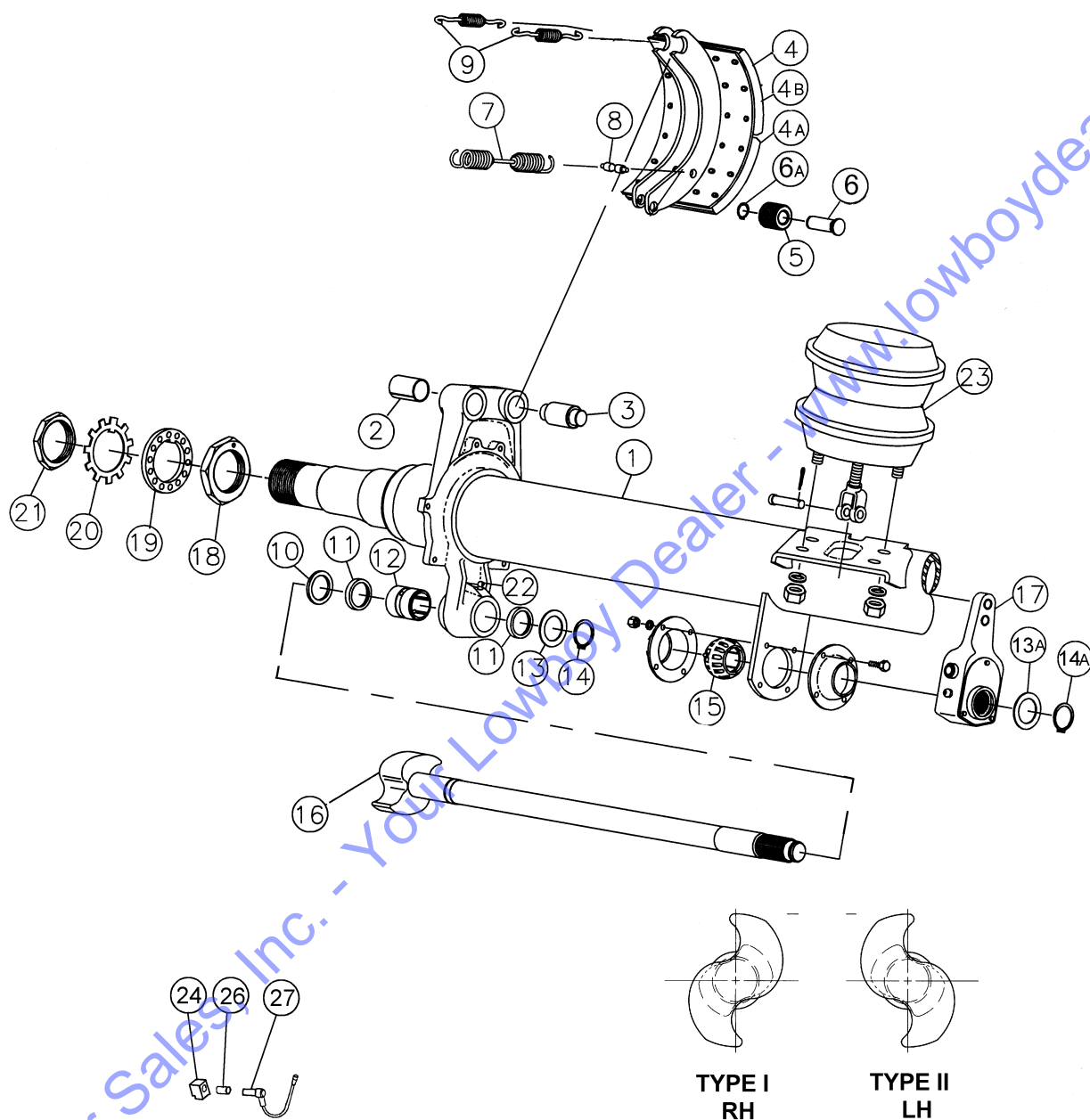
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Figure 1-20 Suspension Hanger Assembly RLU-228

SUSPENSION HANGER RLU-228

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228(INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	111020	AIR SPRING ASSEMBLY	2
3	900 45 040	SHOCK	2
4	111006	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	111007	ALIGN BLOCK	2
6	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	HEX NUT, 1/2-13	4
9	1-861-010034-13	LOCK WASHER, 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934-00-492	LOCK NUT, 3/4" - 10	2
12	111022	3/4-10 SQUARE NUT	2
13	111008	LOCK NUT 1-1/8-7	2
14	111018	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	94100787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	94100685	LITERATURE SPEC (NOT SHOWN)	1
17	94100648	LITERATURE FORM 864 (NOT SHOWN)	1
18	94100590	LITERATURE LABEL (NOT SHOWN)	1
19	94100790	LITERATURE LABEL (NOT SHOWN)	1
	111019	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	900-08-139	RUBBER BUSHING (FRONT PIVOT)	2
23	111011	RUBBER BUSHING (AXLE CONNECTION)	4
24	111012	AXLE ADAPTER ASSEMBLY	2
25	111014	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	111015	SAFETY STRAP	2
28	111008	LOCK NUT 1-1/8-7	4
	109533	ALIGNMENT BLOCK ASSEMBLY (INCL. 1, 4-5, 13, 22) (ONE PER SIDE)	

NOTE: QUANTITIES LISTED ARE PER AXLE.



VIEWED FROM HEAD END

NOTE: RH does not necessarily correspond w/ RH side of trailer.

115703

Figure 1-21 Axle and Brake Assembly

AXLE AND BRAKE ASSEMBLY

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	115703	AXLE 70.5", 12.25 X 7.5 SPG BK 25K(INCL. ITEMS 1 - 23)	2
1A*	D-2H12	BEAM W/ BRACKETS	1
	**K71-460-00	BRAKE SHOE HDWR KIT (ITEMS 2, 3, 5, 6, 6A, 7, & 8)	
**2	014-068-00	BUSHING -SPIDER ANCHOR PIN	4
**3	056-017-00	ANCHOR PIN	4
4	040-320-01	SHOE AND LINING ASSEMBLY	4
4A	041-060-01	LINING -BRAKE BLOCK CAM	4
4B	041-057-01	LINING -BRAKE BLOCK ANCHOR	4
	K71-133-00	BRAKE BLOCK KIT (ITEMS 4A AND 4B)	4
**5	014-057-00	ROLLER	4
**6	056-010-00	PIN ROLLER	4
**6A	069-018-00	RETAINING PIN ROLLER	4
**7	046-092-00	SPRING -SHOE RETRACTOR	2
**8	056-018-00	RETAINER PIN - RETRACTOR SPRING	4
**9	046-097-00	KEEPER SPRING	4
	***K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
***10	005-074-00	WASHER -CAMSHAFT "D"	2
***11	010-052-00	GREASE SEAL	4
***12	014-056-00	BUSHING -CAMSHAFT SPIDER	2
***13	005-075-00	WASHER -CAMSHAFT	2
***13A	005-134-00	WASHER- CAMSHAFT END	2
***14	069-020-00	RETAINER - CAMSHAFT	2
***14A	069-078-00	RETAINER - CAMSHAFT END	2
**15	014-058-00	BUSHING -CAMSHAFT SUPPORT	2
16	034-188-03	CAMSHAFT LH 70.5" AXLE	1
	034-189-03	CAMSHAFT RH 70.5" AXLE	1
17	127777	SLACK ADJUSTER - AUTOMATIC	2
	127779	CLEVIS MOUNTING KIT	
18	006-114-00	NUT - INNER SPINDLE BEARING	2
19	005-098-00	LOCKWASHER - INDEXING	2
20	005-099-00	LOCKWASHER - TAB	2
21	006-115-00	NUT - OUTER SPINDLE	2
***22	061-006-00	GREASE FITTING 45°	2
23	034-058-07	AIR CHAMBER ASSEMBLY	2
24	024-100-00	SENSOR BLOCK, LOWER	2
26	097-002-00	RETAINER CLIP	2
27	128550	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 REPAIR KIT LISTED.

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

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 1-39.

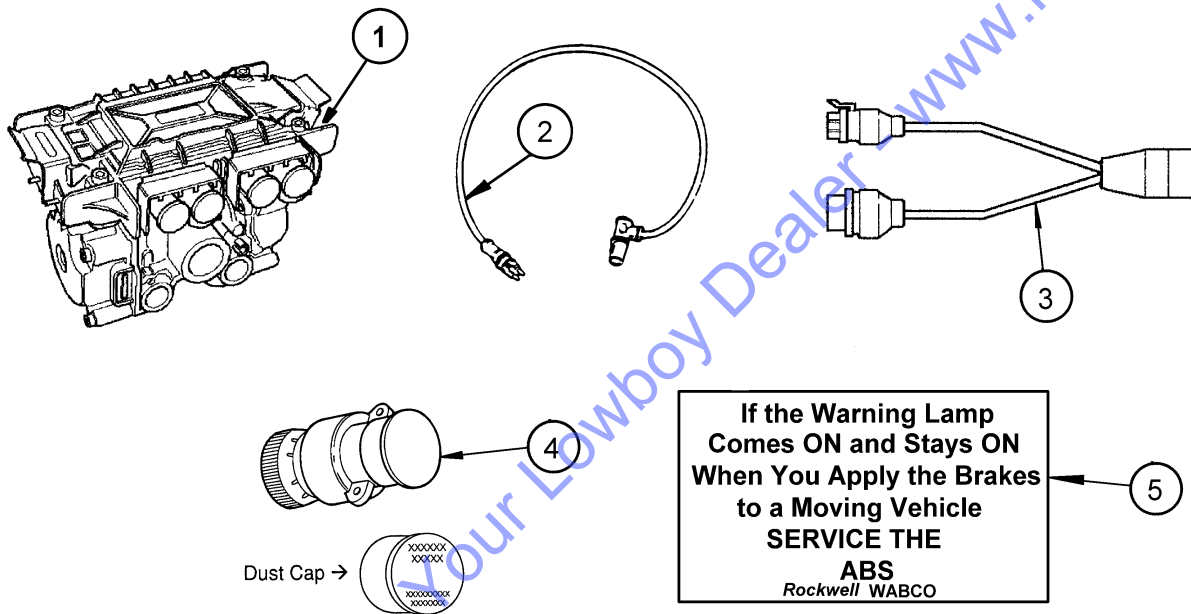


Figure 1-22 Brake Kit, Rockwell ABS 4S/2M

ABS BRAKE KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	ABS BRAKE KIT 4S/2M	
1	114588	ECU/VALVE ASSEMBLY	1
2	101848	SENSOR EXTENSION CABLE 6FT	4
3	114590	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1
4	101851	DIAGNOSTIC SWITCH	1
5	101855	WARNING LAMP LABEL	1
6	114587	MAINTENANCE MANUAL MM-0180 (NOT SHOWN)	

HUBOABS2

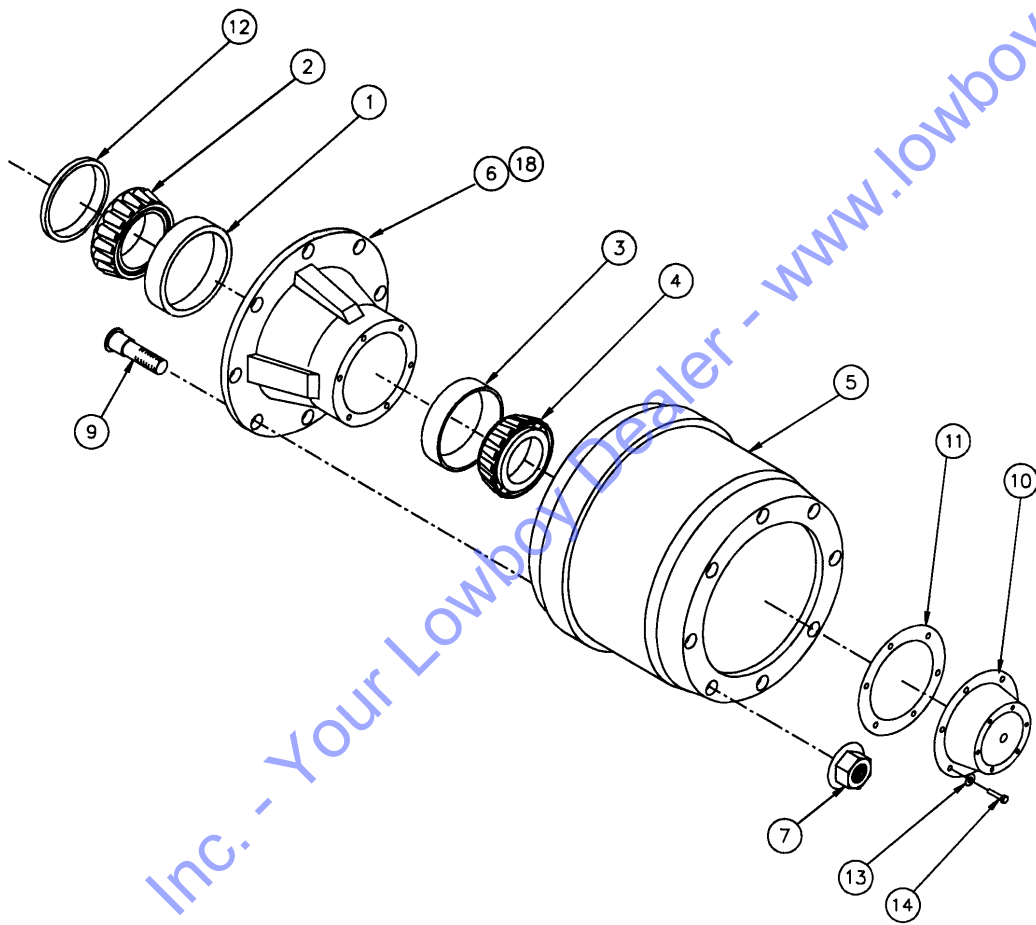


Figure 1-23 Outboard Hub and Drum Assembly

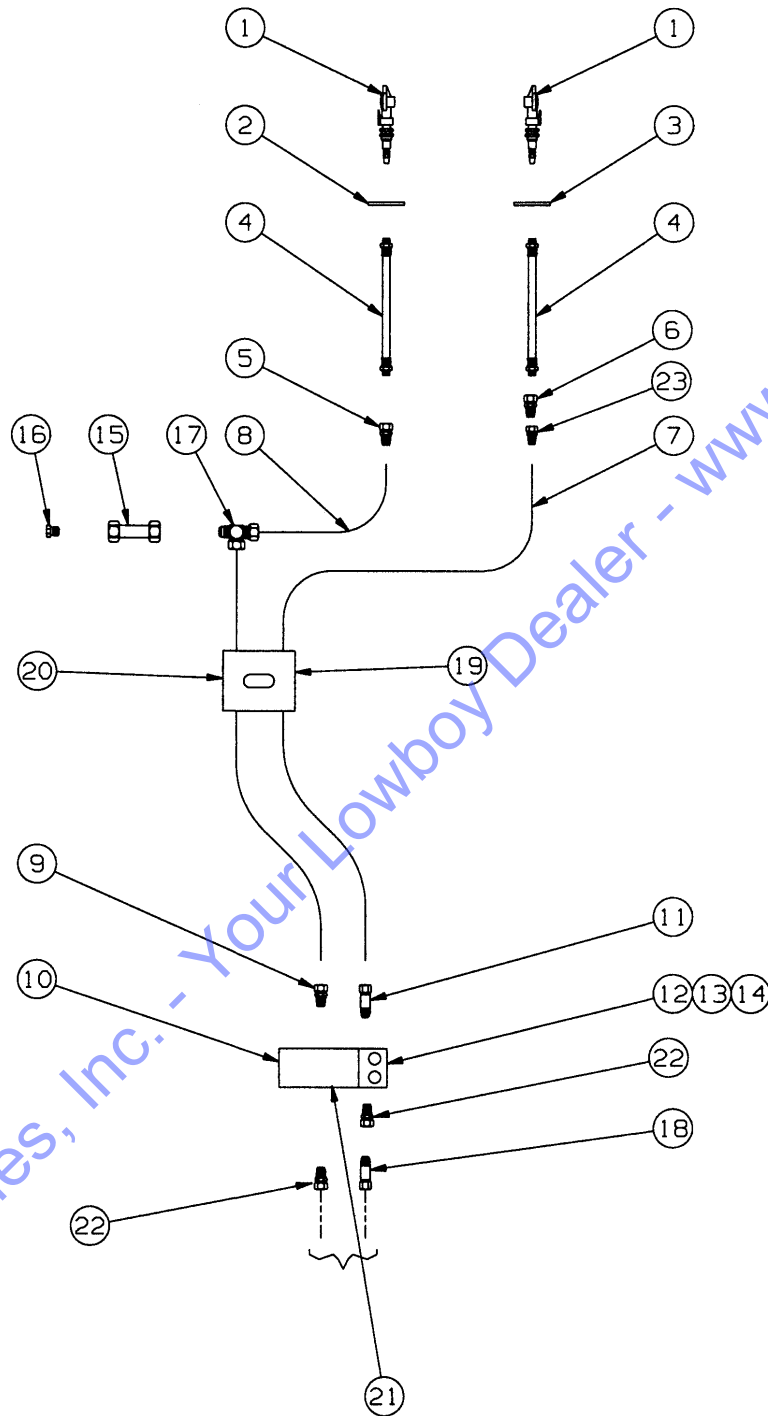
OUTBOARD PILOT MOUNT HUB AND DRUM ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	108541	HUB/DRUM 8 BOLT 12-1/4 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	63680	OUTBOARD MOUNTED BRAKE DRUM	1
6	112493(2027----T80)	HUB IRON 80 TH TONER RING	1
7	179933	FLANGE NUT	8
9	113536	STUD	8
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	100402	WHEEL ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	3-870-010097	WHEEL DISC PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	3-870-010012	WHEEL ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT) (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C - ALUMINUM WHEEL (NOT SHOWN)	1
17	1-843-010014	VALVE, EXTENSION, STEM 3" (USED W/ 12-1/4" BRAKES) (NOT SHOWN)	1
18	*	ABS TONE RING	1

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

EMERGENCY/SUPPLY

SERVICE/CONTROL



3ma128-010042

Figure 1-24 Air System, Main

AIR SYSTEM, MAIN

ITEM	PART NO.	DESCRIPTION	QTY
	3-128-010042	AIR ASSEMBLY, MAIN	
1	108801	GLAD HAND RED AIR	1
	108802	GLAD HAND BLUE AIR	1
2	55B61-6	TAG EMERGENCY LINE	1
3	55B61-7	TAG SERVICE LINE	1
4	1-384-010041-2	HOSE AIR 1/2X102 WITH .50 ENDS	2
5	1-297-010012-16	FITTING AIR FEMALE CONN 1/2X1/2	1
6	1-297-010021-05	FITTING BRASS PIPE REDUCER COUPLING 1/2 TO 3/8	1
7	1-833-010002	NYLON TUBING 3/8	AR
8	1-833-010003	NYLON TUBING 1/2	AR
9	1-297-010007-16	FITTING AIR 1/2X1/2	1
10	1-560-010002-04	PLUG PIPE 1/2	1
11	1-297-010008-20	FITTING AIR 90 3/8X3/8	1
12	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18X1-1/4	2
13	1-512-010005-03	NUT HEX LOCK GRB 5/16-18	2
14	1-861-010032-09	WASHER FLAT 5/16	2
15	1-297-010022-03	FITTING AIR 1-14 ANCHOR COUPLING	1
16	1-297-010033-03	FITTING BRASS PLUG HEX 3/8	1
17	1-297-010015-10	FITTING AIR MALE RUN TEE 1/2X3/8	1
18	2089-6-6S	FITTING AIR 90 3/8X1/2	1
19	2-181-010001	HOSE CLAMP	5
20	1-510-010001	NUT 3/8-16 FLANGE LOCK	5
21	3-843-010038	VALVE AIR RELAY FAST AIR BAL (NO PARTS BREAKDOWN)	1
22	2081-8-6S	REDUCER 1/2 X 3/8	2
23	1-297-010007-12	FITTING, AIR 3/8 X 3/8	1

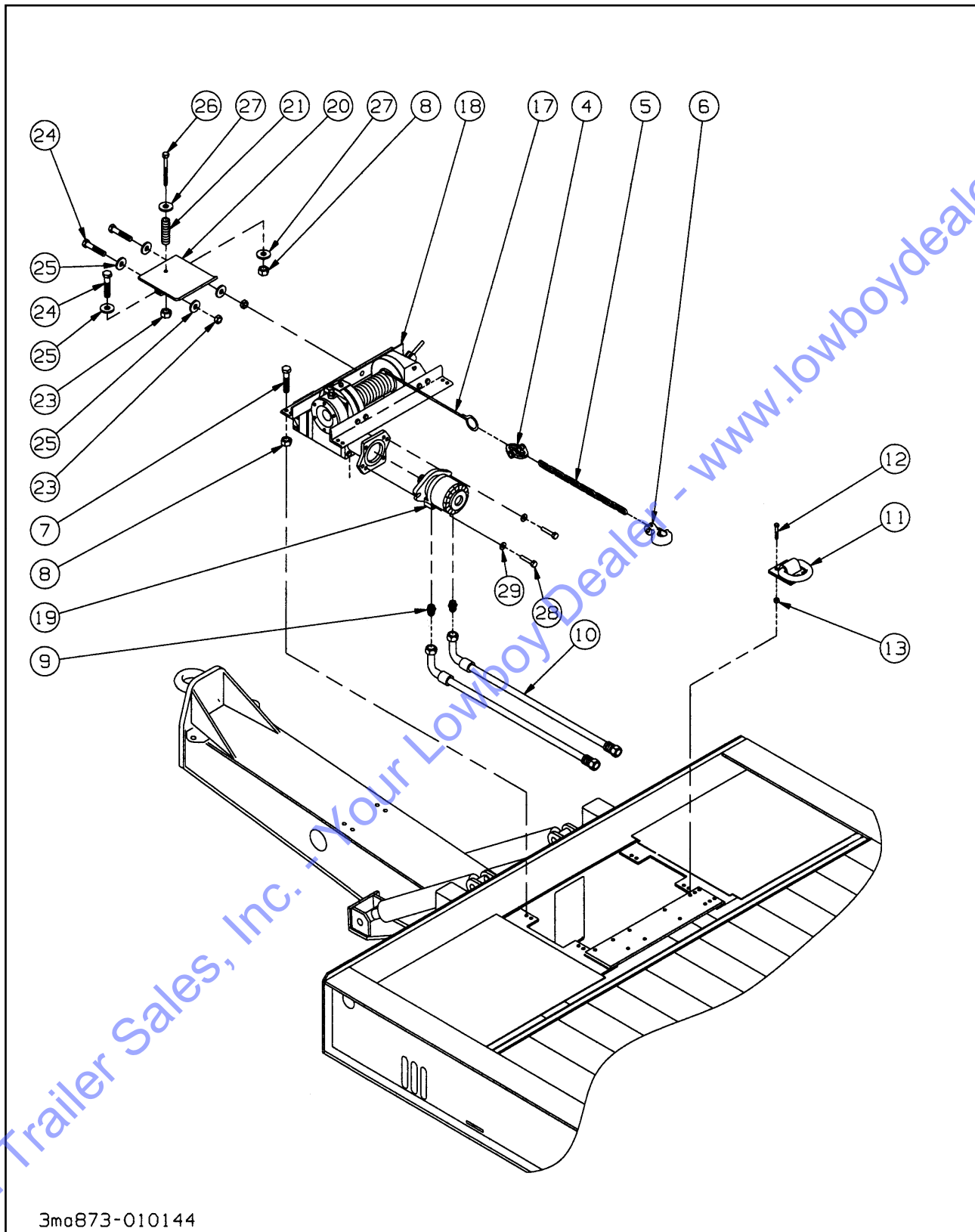


Figure 1-25 Winch Installation

WINCH INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
	3-873-010165	WINCH INSTALLATION, 12,000 LB(ITEMS 4-10)	
	110910	WINCH INSTALLATION, 20,000 LB(ITEMS 4-10)	
	3-793-010041	TIE DOWN INST., WINCH D-RING OPT.(ITEMS 11-17)	
	3-873-010126-2	WINCH ASSY, 12,000 LB PARKER(ITEMS 18-30)	
	3-873-010129-2	WINCH ASSY, 20,000 LB(ITEMS 18-30)	
4	3-174-010038	CHAIN LINK CONNECTING 1/2	1
5	3-174-010039036	CHAIN 1/2X36 GR7	1
6	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
7	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	8
8	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	9
9	202702-10-8S	ADAPTER #10 O-RING #8 TUBE	2
10	1-397-010302050	HOSE ASSEMBLY 1/2 X 50 (12K)	2
	1-397-010302068	HOSE ASSEMBLY 1/2 X 68 (20K)	2
11	3-793-010040	TIE DOWN WINCH	1
12	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	6
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	7
17	3-155-010017-1	CABLE 1/2 W/ LOOP 60 (12K)	1
	3-155-010017-4	CABLE 1/2 W/ LOOP 85 (12K)	1
	3-155-010018-6	CABLE 5/8 X 60 (20K)	1
18	3-873-010122	WINCH WORM GEAR (12K) (SEE PAGE 1-45)	1
	3-873-010123	WINCH WORM GEAR (20K) (SEE PAGE 1-48)	1
19	3-481-010006	MOTOR, HYDRAULIC (12K) (SEE PAGE 1-51)	1
	3-481-010007	MOTOR, HYDRAULIC (20K) (SEE PAGE 1-51)	1
20	3-873-010124	WINCH TENSIONER WELDMENT (12K)	1
	102186	WINCH TENSIONER WELDMENT (20K)	1
21	3-720-010010	SPRING COMP LEVEL WIND	1
23	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	3
24	1-654-010051-06	SCREW HEX CAP 3/8-16 X 1-1/4 GR5	3
25	1-861-010032-10	WASHER FLAT 3/8	6
26	1-654-010055-16	SCREW HEX HEAD CAP 1/2-13X5-1/2 GR5 (12K)	1
	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13X6 GR5 (20K)	1
27	1-861-010032-15	WASHER FLAT 1/2	1
28	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13X1-3/4 GR5	2
29	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
30	100600	DECAL, WARNING, WINCH (NOT SHOWN)	1

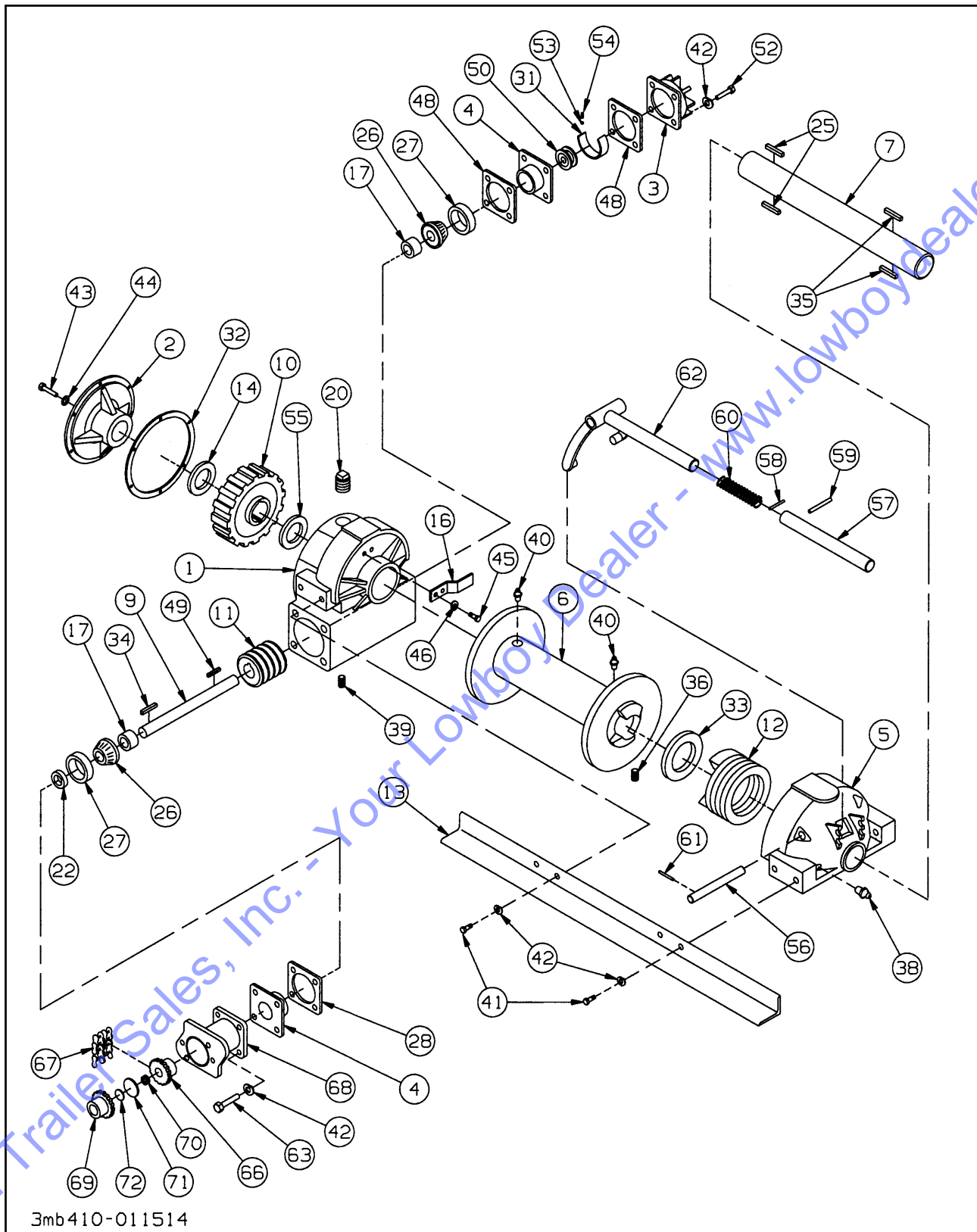


Figure 1-26 12,000 # Winch Items

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY
	3-873-010122	WINCH ASSEMBLY 12K	
1	81006	WORM HOUSING ASSEMBLY(INCLUDES ITEM 18)	1
2	81009	COVER ASSY 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 WASHER	1
16	81025	BRAKE DRAG	1
17	11308	SPACER WORM	2
18	18078	BUSHING (NOT SHOWN)	1
19	11368	BUSHING (NOT SHOWN)	1
20	22775	PLUG PIPE	1
21	18009	PLUG PIPE (NOT SHOWN)	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	SETSCREW	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 (NOT SHOWN)	1
48	18024	BEARING CONTAINER GASKET	3
49	10078	BRAKE DRUM 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
56	11130	SHIFTER SHAFT	1

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY
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	13829	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

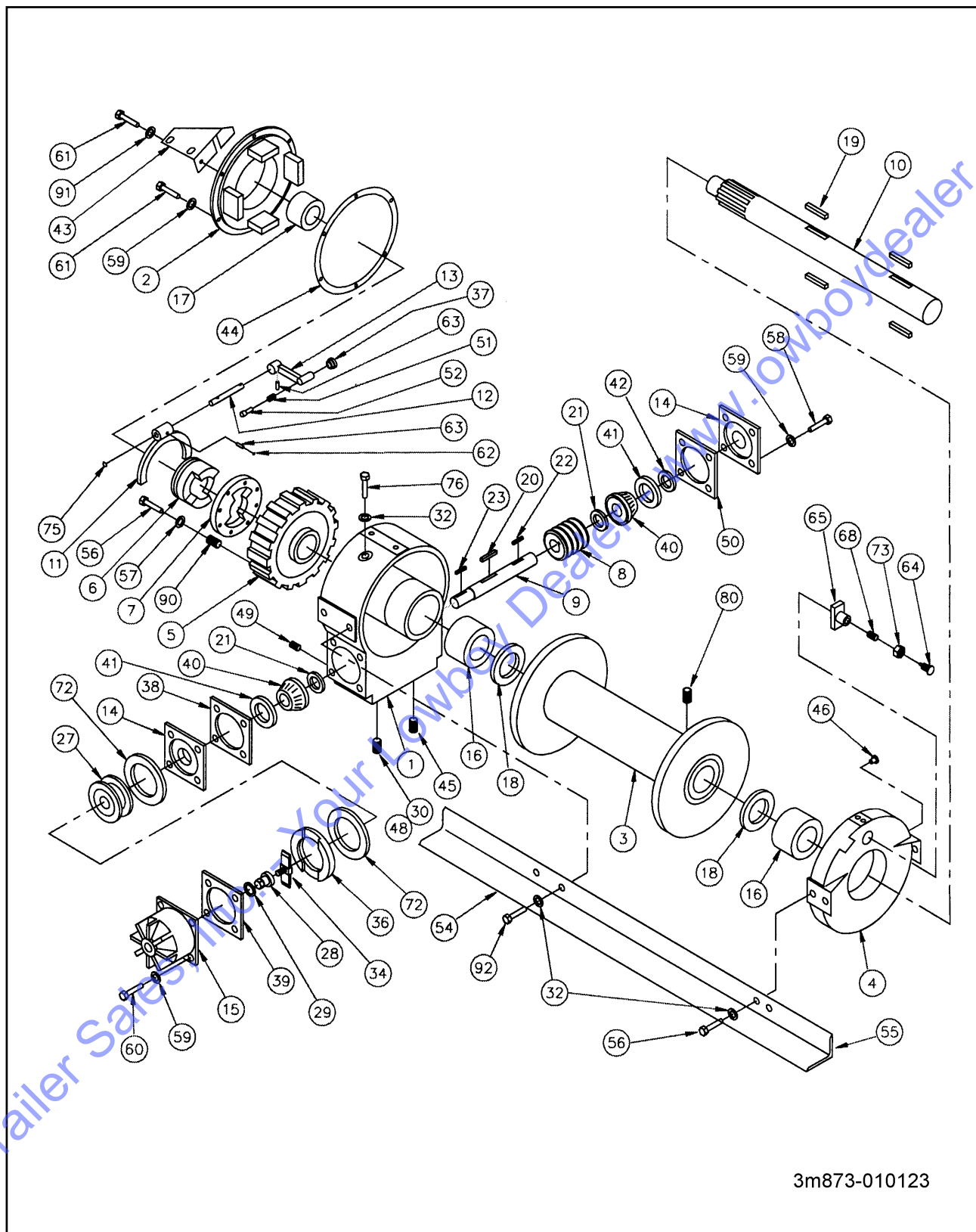


Figure 1-27 20,000# Winch Items

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH 20,000# W/BOLT-ON ANGLES	
1	81078	WORM HOUSING ASSEMBLY	1
2	81082	COVER ASSEMBLY WORM HOUSING	1
3	11449	DRUM CABLE	1
4	81077	LEG ASSEMBLY BEARING	1
5	11434	WORM GEAR RIGHT	1
6	11421	CLUTCH SLIDING	1
7	11419	DRIVE CLUTCH	1
8	11404	WORM RIGHT	1
9	11405	SHAFT WORM	1
10	11414	SHAFT CABLE DRUM	1
11	11440	FORK SHIFTER	1
12	11441	SHAFT SHIFTER	1
13	11442	HANDLE SHIFTER	1
14	11427	CONTAINER BEARING	2
15	11445	COVER WORM BRAKE	1
16	18035	BUSHING	2
17	11425	BUSHING	1
18	11420	RING RETAINING	2
19	22055	DRUM KEY CABLE	4
20	11402	KEY WORM	1
21	11407	SPACER WORM	2
22	23367	KEY SPROCKET	1
23	10078	KEY ROTOR	1
27	81080	ROTOR ASSEMBLY BRAKE	1
28	11599	ADJUSTING NUT WORM BRAKE	1
29	12465	O-RING	1
30	19014	PLUG FILLER	1
32	11026	WASHER LOCK	10
34	81081	SPRING ASSEMBLY SAFETY BRAKE	1
36	11431	PLATE PRESSURE	1
37	18022	KNOB SHIFTER	1
38	11429	GASKET	4
39	11446	GASKET	2
40	18033	BEARING CONE	2
41	18034	BEARING CUP	2
42	12073	SEAL GREASE	1
43	12783	BRACKET SHIFTER	1
44	11411	COVER GASKET HOUSING	1
45	19045	PLUG DRAIN	1
46	18047	FITTING GREASE	1
48	22775	PLUG VENT	1
49	18009	PLUG LEVEL	1
50	11430	GASKET	4
51	11310	SPRING SHIFTER KNOB	1
52	11309	STEM SHIFTER KNOB	1
54	28942	ANGLE FRONT BASE	1
55	28943	ANGLE REAR BASE	1
56	13938	CAPSCREW	16
57	12781	WASHER LOCK	8

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
58	21044	CAPSCREW	4
59	11025	WASHER LOCK	4
60	22695	CAPSCREW	4
61	21964	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLLPIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	DRAG BRAKE SPRING	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	22729	CAPSCREW	2
77	23245	SAE PLATE -AMU7-16F (NOT SHOWN)	1
78	23310	PLATE WARNING (NOT SHOWN)	1
79	11842	SCREW DRIVE (NOT SHOWN)	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER	1
92	22697	CAPSCREW	5

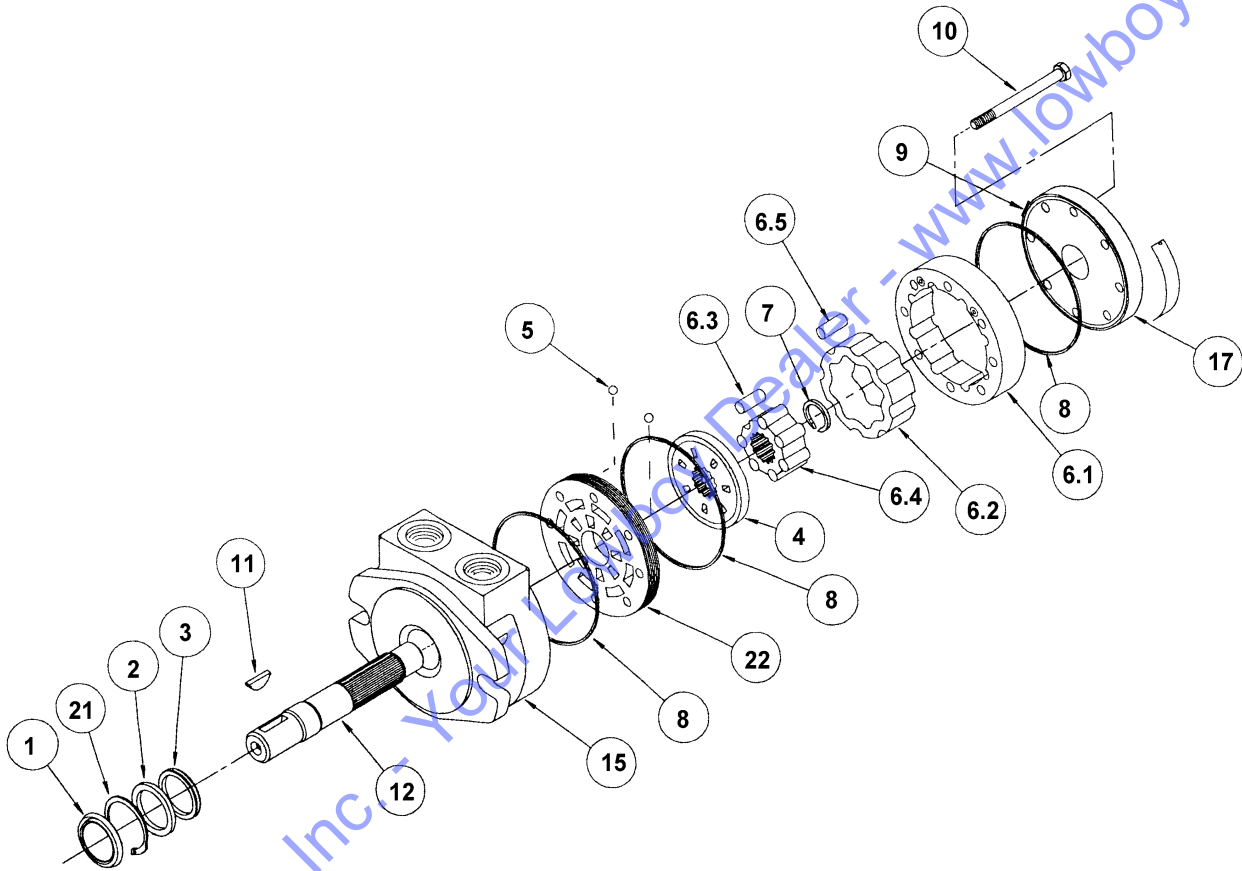


Figure 1-28 Winch Motor Assembly

WINCH MOTOR ASSEMBLY

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

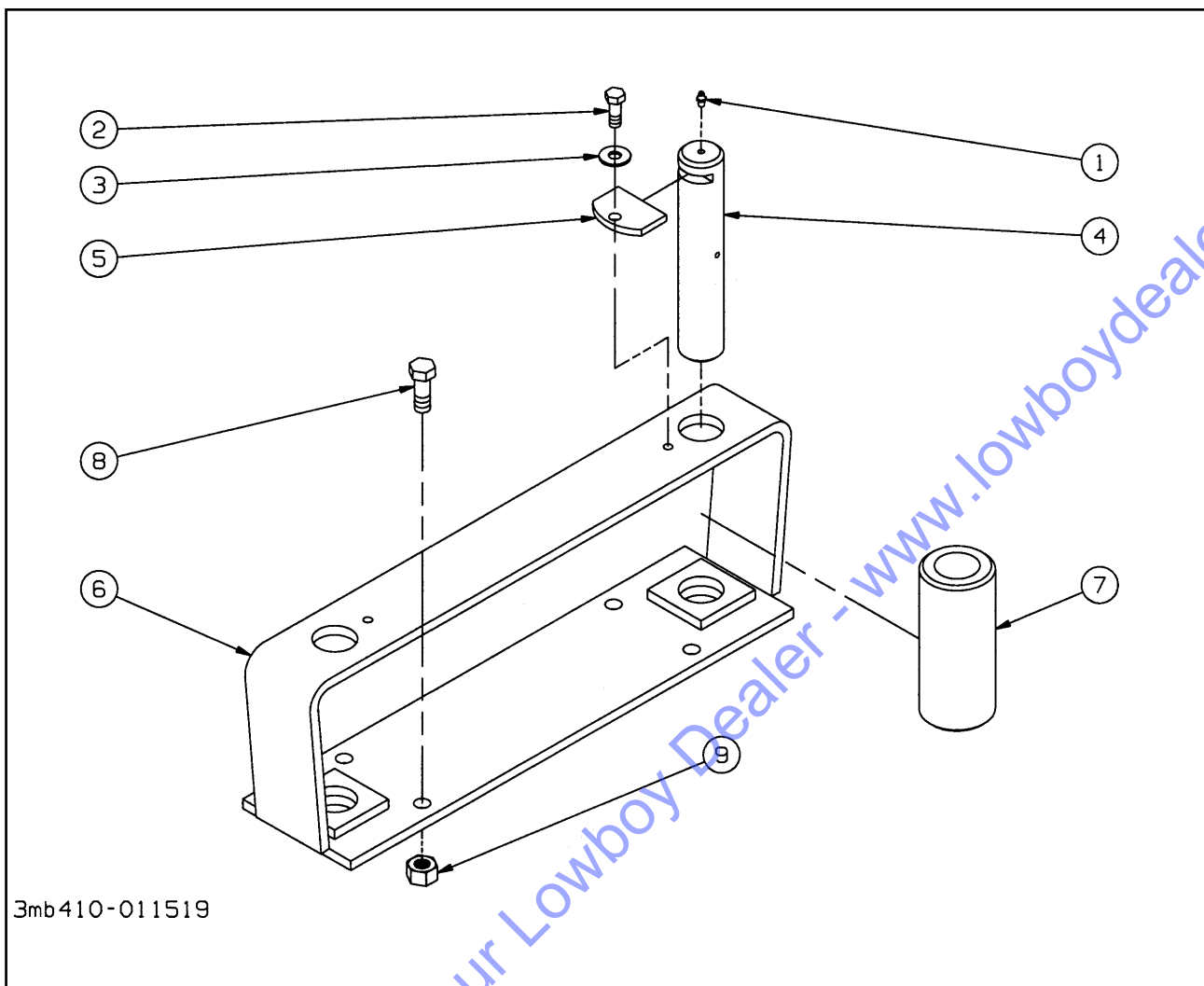


Figure 1-29 Winch Cable Roller Guide(Optional)

WINCH CABLE ROLLER GUIDE (OPTION)

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

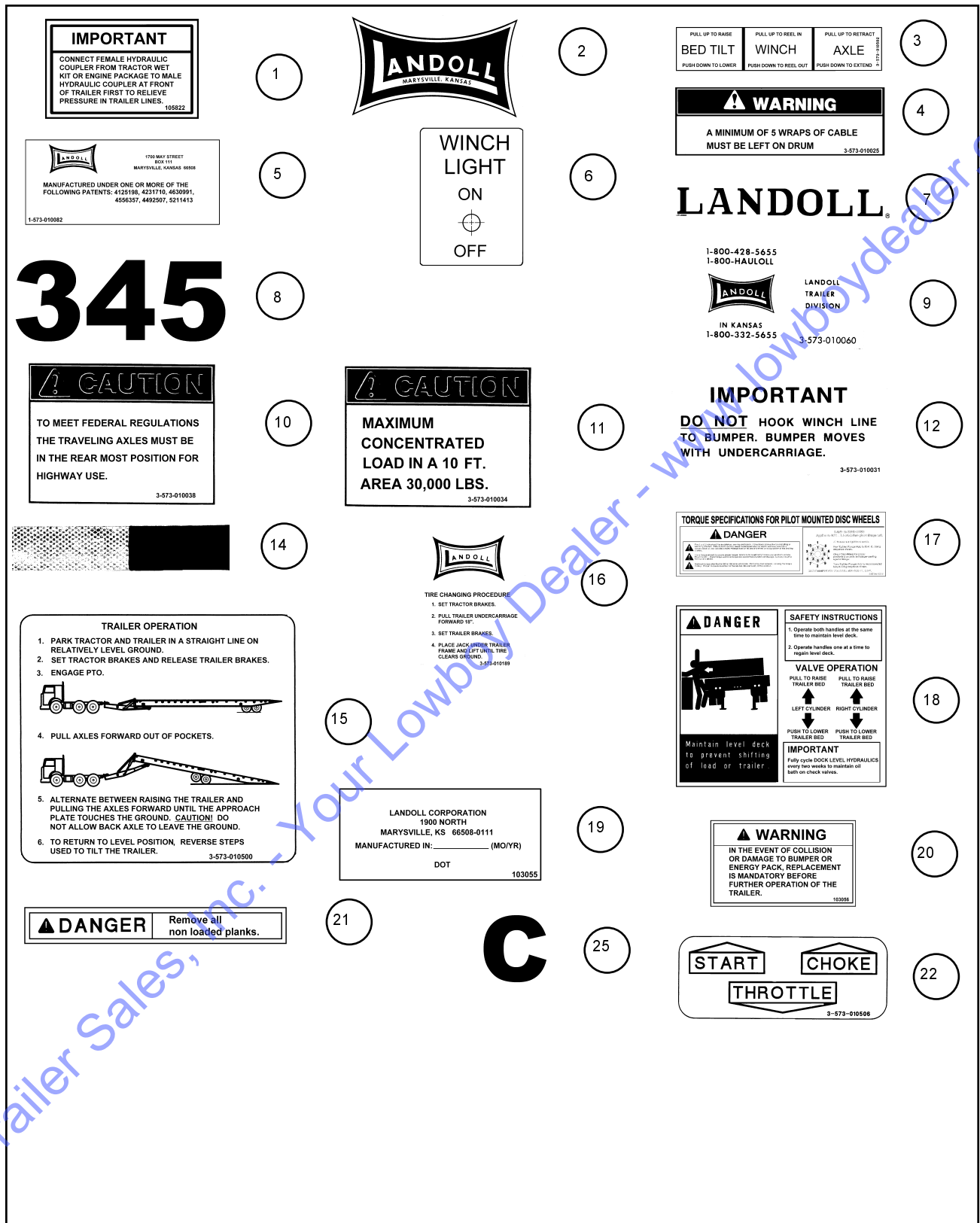
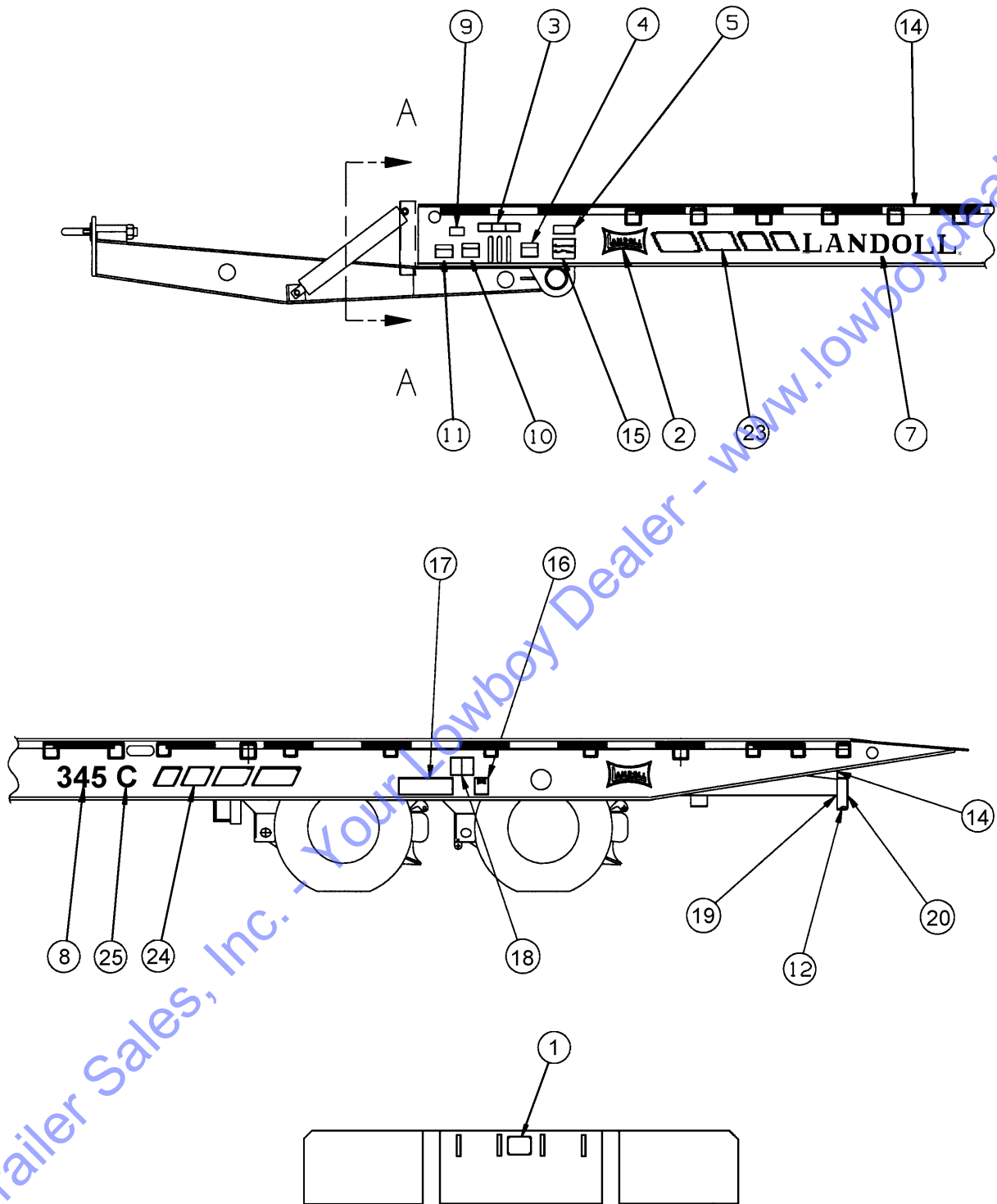


Figure 1-30 Decals



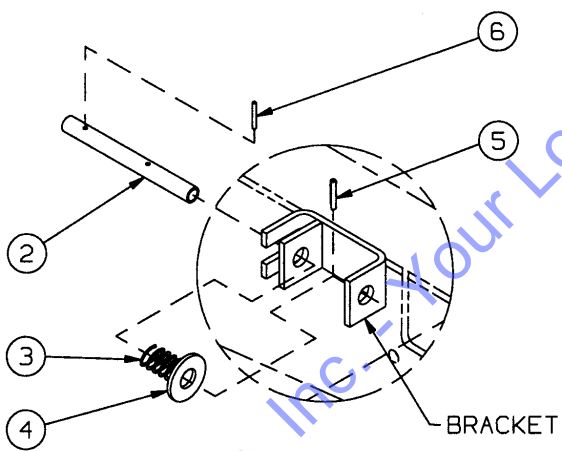
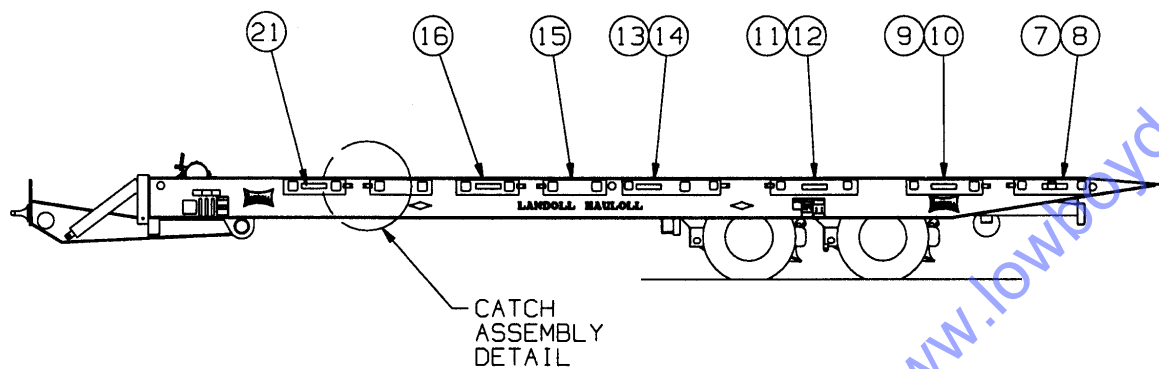
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VIEW A-A

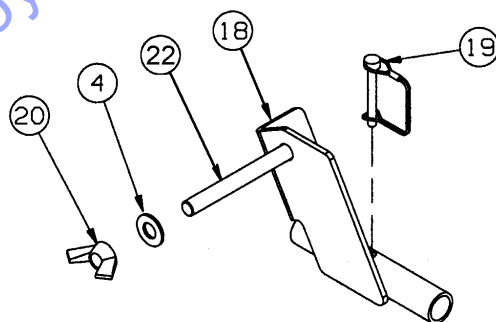
Figure 1-31 Decal Installation

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
	3-573-010501-01	DECAL INSTALLATION BLACK	
	3-573-010501-02	DECAL INSTALLATION WHITE	
1	105822	DECAL, HYD COUPLER	1
2	1-573-010476	DECAL BOW TIE (BLACK)	2
	1-573-010480	DECAL BOW TIE (WHITE)	2
3	3-573-010502	DECAL INSTRUCTION CONTROL	1
4	3-573-010025	DECAL WINCH WARNING	1
5	1-573-010082	DECAL PATENT TRAILERS	2
6	3-573-010273	DECAL, WINCH LIGHT (SEE PAGE 1-17)	1
7	3-573-010048	DECAL LANDOLL BLACK 5"	2
	3-573-010049	DECAL LANDOLL WHITE 5"	2
8	113517	DECAL 345 BLACK 5"	2
	113516	DECAL 345 WHITE 5"	2
9	3-573-010060	DECAL TOLL FREE NUMBER	1
10	3-573-010038	DECAL CAUTION	1
11	3-573-010034	DECAL CONCENTRATED LOAD 30,000 LBS	2
12	3-573-010031	DECAL BUMPER	1
13	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
14	3-573-010377	DECAL 2" REFLEXITE TAPE	AR
15	3-573-010500	DECAL OPERATION 2-AXLE	1
16	3-573-010189	DECAL TIRE CHANGING PROCEDURE	2
17	3-573-010210	DECAL TORQUE SPEC 8-10 STUD HUB	REF
18	3-573-010202	DECAL DANGER	1
19	103055	DECAL ENERGY BUMPER CERTIFICATION	1
20	103056	DECAL ENERGY BUMPER WARNING	1
21	101268	DECAL DANGER PLANK (SEE PAGE 1-57 FOR LOCATION)	REF
22	3-573-010506	DECAL, ENGINE CONTROLS (SEE PAGE 1-64 FOR LOCATION)	REF
23	3-573-010042	DECAL, FRONT STRIPE WHITE	2
	3-573-010040	DECAL, FRONT STRIPE BLACK	2
24	3-573-010043	DECAL, REAR STRIPE WHITE	2
	3-573-010041	DECAL, REAR STRIPE BLACK	2
25	114575	DECAL, C (BLACK)	2
	114574	DECAL, C (WHITE)	2



CATCH ASSEMBLY DETAIL



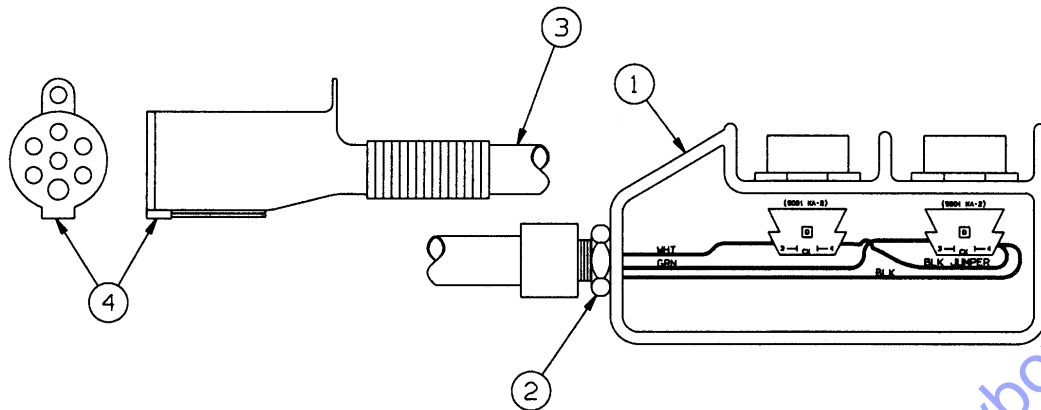
FLAG HOLDER ASSY.

3ma276-010756

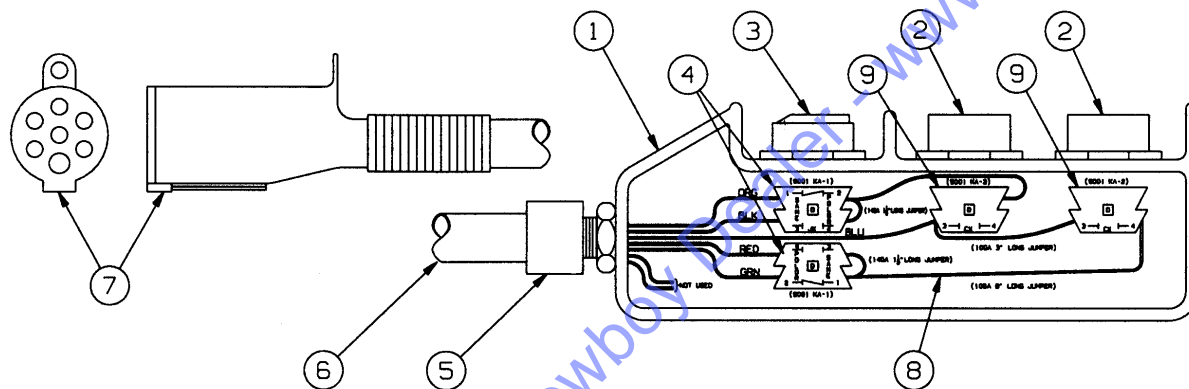
Figure 1-32 Extension Installation

EXTENSION INSTALLATION (OPTION)

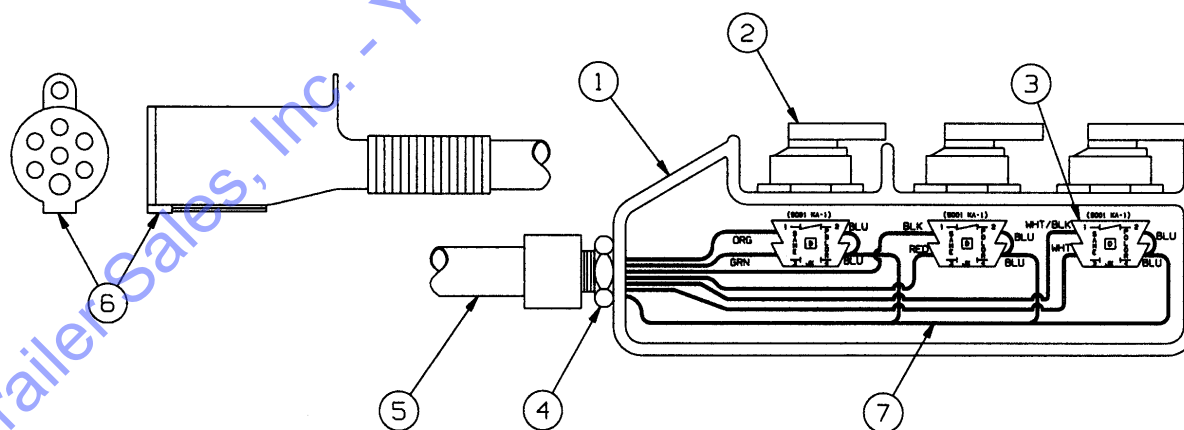
ITEM	PART NO.	DESCRIPTION	QTY
	3-276-010756-1	EXTENSION INSTALLATION 345 PULLOUTS	
2	3-557-010375	PIN SLIDE LOCK	16
3	CO-975-74-2000	SPRING COMPRESSION	16
4	1-861-010032-15	WASHER FLAT 1/2	22
5	1-647-010004117	ROLL PIN 1/8X1	16
6	0600-250-03000	ROLL PIN 1/4X3	16
7	3-276-010749	EXTENSION LEFT HAND PULL-OUT 28/ 3 TUBE	1
8	3-276-010748	EXTENSION RIGHT HAND PULL-OUT 28/ 3 TUBE	1
9	3-276-010751	EXTENSION LEFT HAND PULL-OUT 28	1
10	3-276-010750	EXTENSION RIGHT HAND PULL-OUT 28	1
11	3-276-010716	EXTENSION LEFT HAND PULL-OUT 32	1
12	3-276-010754	EXTENSION RIGHT HAND PULL-OUT 32	1
13	3-276-010753	EXTENSION LEFT HAND PULL-OUT 36/ 3 TUBE	1
14	3-276-010752	EXTENSION RIGHT HAND PULL-OUT 36/3 TUBE	1
15	3-276-010715	EXTENSION LEFT HAND PULL-OUT 23	4
16	3-276-010755	EXTENSION RIGHT HAND PULL-OUT 23	4
17	3-573-010377	DECAL 2" REFLEXITE TAPE (NOT SHOWN)	AR
18	101062	BRACKET FLAG HOLDER	6
19	516-22PTL	RETAINING PIN MUD FLAP	6
20	1-533-010001	NUT, WING 1/2	6
21	101268	DECAL DANGER PLANK	12
22	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	6



SINGLE FUNCTION REMOTE



DUAL FUNCTION REMOTE



TRIPLE FUNCTION REMOTE

3mb410-011470

Figure 1-33 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE (OPTION)

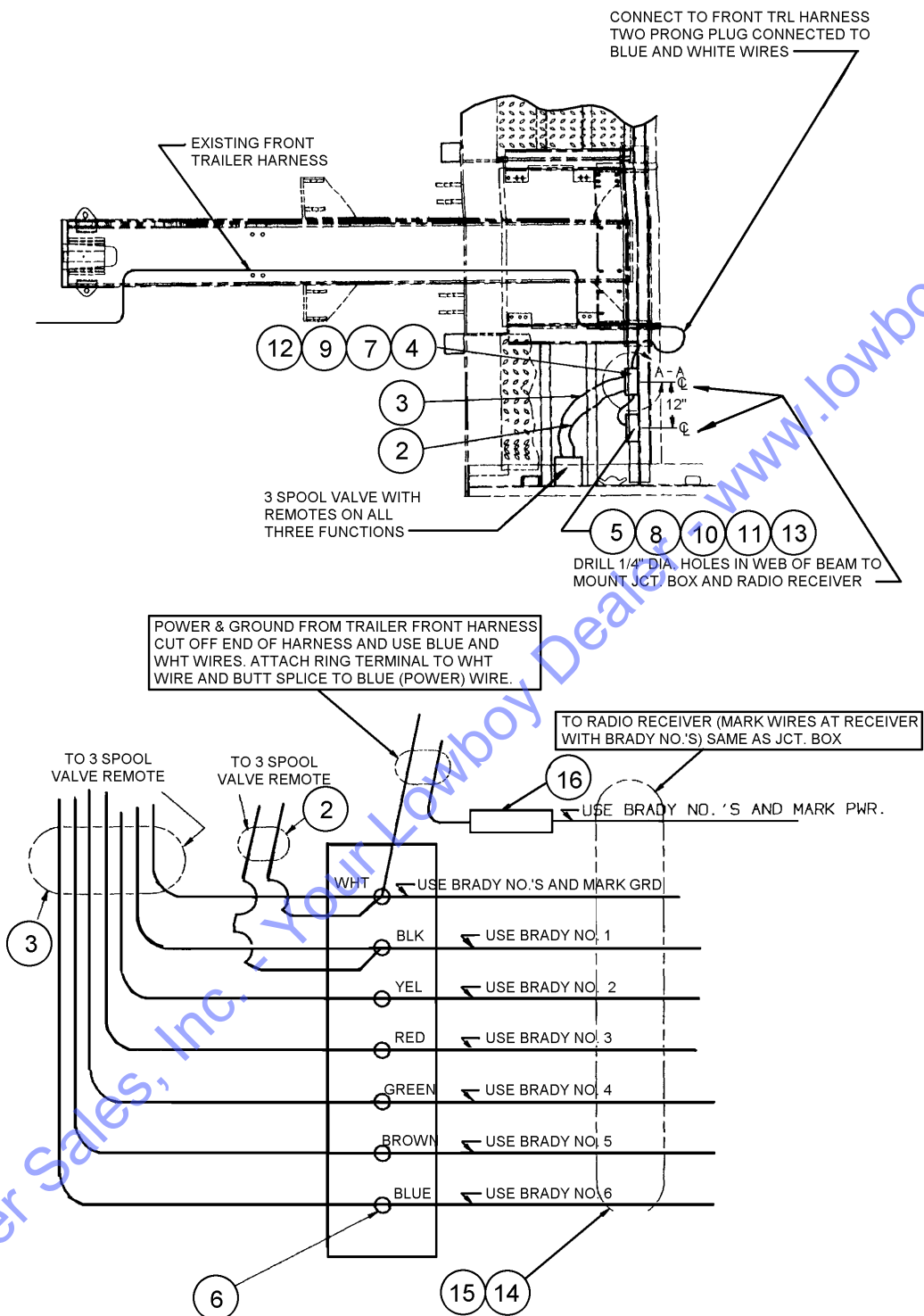
ITEM	PART NO.	DESCRIPTION	QTY.
	3-765-010001	SWITCH REMOTE CONTROL ASSY	
1	3-209-010003	PUSH BUTTON STATION	1
A	9001-BW70YU	CONTROL STATION SQD(CONTACT BLKS INCL)	1
B	9001-B256	REVERSE LEGEND	1
C	9001-B255	FORWARD LEGEND	1
2	DB-10	STRAIN RELIEF CORD CONN.	1
3	3-156-010007	THREE CONDUCTOR WIRE	50
4	59P8	TRAILER CONN PLUG	1

WIRED REMOTE CONTROL, DUAL (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010004-01	CONTROL ELECT DUAL FUNC. RMT	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010080	ELECTRICAL PUSH BUTTON UNITS	2
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

WIRED REMOTE CONTROL, TRIPLE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006-01	CONTROL REMOTE WINCH/TILT/U/C	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010121	ELECT. CONT. OPER. 3 WAY	3
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



m117638

Figure 1-34 Radio Remote Control, Triple

RADIO REMOTE CONTROL ASSEMBLY, TRIPLE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY
	117638	RADIO REMOTE CONTROL, TRIPLE	
1	3-368-010245-01	HARNESS, POWER JUMPER 52" (SEE PAGE 1-19)	1
2	3-368-010129	HARNESS ASSEMBLY, SINGLE REMOTE, SOL	1
3	3-368-010125	HARNESS ASSEMBLY, DUAL REMOTE, SOL	1
4	750-029	JUNCTION BOX 7 STUD	1
5	111722	REMOTE RADIO 7 FUNCTION	1
6	3-272-010023	ELECT. RING	8
7	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
10	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	4
11	1-861-010032-04	WASHER, FLAT 3/16	4
12	1-861-010032-06	WASHER, FLAT 1/4N	2
13	1-861-010034-07	WASHER, SPLIT LOCK #10	4
14	1-879-010015	WIRE, 16 AWG WHITE	AR
15	3-201-010001	CONDUIT, 5/16 PLASTIC FLEX	AR
16	3-272-010021	ELECT. BUTT SPLICE 16-14 W/ SEAL	1

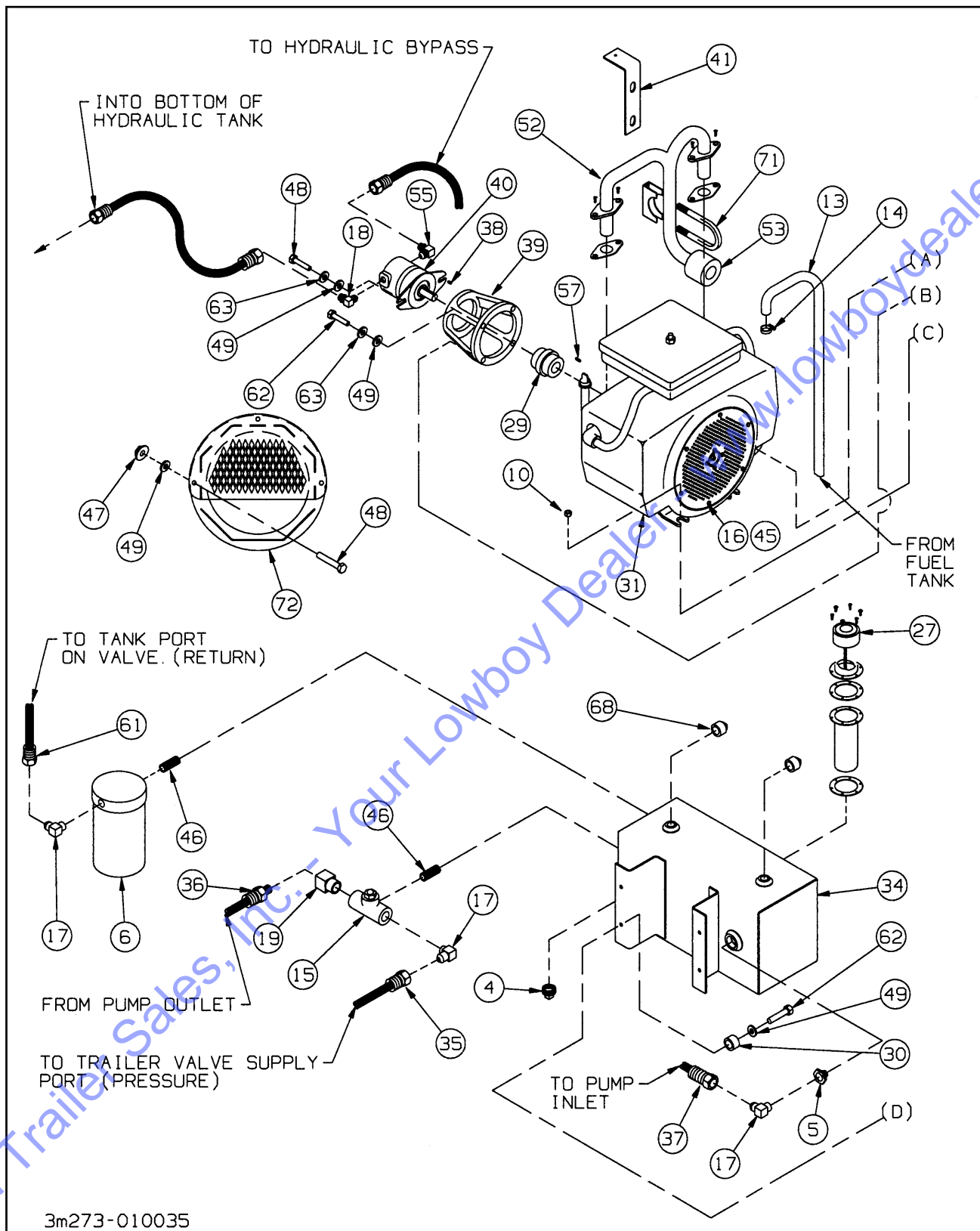


Figure 1-35 Engine Drive, 20 HP (1 of 2)

ENGINE DRIVE, 20HP

ITEM	PART NO.	DESCRIPTION	QTY.	
	3-273-010035	ENGINE DRIVE, 20HP	*	*
	3-273-010035-01	ENGINE DRIVE, 20HP SUB-ASSEMBLY		
1	CA-1595	MACHINE MOUNT 40 DUROMETER	-	4
2	3-203-010001	RING TERMINAL 3/16 16-14	3	-
3	1-796-010003-02	TIE STRAP, PLASTIC	10	10
4	1-560-010002-07	PLUG, PIPE 1-1/4X11-1/2	-	1
5	1-1/4X3/4BUSH	BUSHING, BLACK PIPE	-	1
6	1-295-010001	FILTER, RETURN LINE	-	1
	1-295-010002	REPLACEMENT, FILTER ONLY		
7	1-879-010004	WIRE, RED 14AWG	11	-
8	1-879-010006	WIRE, GREEN 14AWG	11	-
9	1-879-010010	WIRE, WHITE 14 AWG	11.5'	-
10	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6	12
11	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2	6	12
12	1-861-010032-15	WASHER, FLAT 1/2	12	-
13	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL	-	6'
14	105-0105	CLAMP, HOSE IDEAL 6203	-	2
15	125130	RD12D HYD BY PASS SRDD (NO PARTS BREAKDOWN)	-	1
16	134-4560	GUARD ONAN	-	1
17	2024-12-12S	ADAPTER 90 3/4 X 1/2	-	3
18	2062-12-12S	ADAPTER, 90 3/4 X 1/2	-	1
19	2045-8-12S	ST SWIVEL 1/2 - 3/4	-	1
20	3-547-010038	PANEL, ENGINE CONTROLS	1	-
21	239-8113-66	CABLE ASSEMBLY, BATTERY NEG 66"	-	1
22	2481X	BATTERY 12 VOLT	-	1
23	3-573-010506	DECAL, ENGINE CONTROLS	1	-
24	3-120-010124	BATTERY CLAMP BRACKET	-	1
25	3-155-010012	CABLE THROTTLE	1	-
26	3-155-010025	CABLE UTILITY CHOKE	1	-
27	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	-	1
28	3-201-010002	CONDUIT 3/8 PLASTIC FLEX	10.5'	-
29	3-220-010003	FLEXIBLE COUPLING 1-1/8 X 3/4	-	1
30	805-2	BUSHINGS, STEP	-	8
31	3-273-010006	ENGINE 20HP ONAN (CONTACT LOCAL DEALER FOR SERVICE)	-	1
32	3-755-010406	SUPPORT WELDMENT ENGINE	-	1
33	3-744-010046	STRAP, 3 GAL FUEL TANK	-	2
34	3-786-010077	TANK WELDMENT HYD	-	1
35	1-397-010372120	HOSE ASSEMBLY 1/2 X 120	-	1
36	1-397-010361036	HOSE ASSEMBLY 1/2 X 36	-	1
37	1-397-010304048	HOSE ASSEMBLY 3/4 X 48	-	1
38	3-427-010003	KEY, WOODRUFF	REF	REF
39	3-482-010003	MOUNT HYDRAULIC PUMP 20HP	-	1
40	3-591-010022	PUMP HYDRAULIC (NO PARTS BREAKDOWN)	-	1
41	3-482-010360	MOUNT CHOKE CABLE WELDMENT	-	1
42	3-765-010005	IGNITION SWITCH	1	-
43	3-783-010013P	TANK FUEL 3 GAL PAINT	-	1
44	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	3	-
45	3/16X3/4CS SELF	SCREW, HEX HEAD CAP 3/16X3/4 SELF DRILLED	-	4

ENGINE DRIVE, 20HP

ITEM	PART NO.	DESCRIPTION	QTY.	
46	3/4NIPPLE	NIPPLE, ALL THREAD	-	2
47	1-510-010001	NUT, FLANGE LOCK 3/8-16	3	6
48	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3	2
49	1-861-010032-11	WASHER, FLAT 3/8W	3	16
50	3-272-010022	ELECT BUTT SPLICE 12-10 W/ SEAL	1	-
51	514-9045-66	CABLE ASSEMBLY BATTERY POS 66"	-	1
52	541-0197	MANIFOLD, EXHAUST 20H DOWN	-	1
53	542-7101	ONAN MUFFLER KIT 25HP	-	5
54	6600	VALVE SHUT-OFF GAS	-	1
55	2062-8-8S	ADAPTER 90 #8	-	1
56	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	-	4
57	110-4338	SQ KEY 1/4 X 1/4 X 2	REF	REF
61	1-397-010304135	HOSE ASSEMBLY 3/4X135	-	1
62	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	-	8
63	1-861-010034-11	WASHER SPLIT LOCK 3/8-16 GRB	-	6
64	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	3	-
65	1-654-010049-07	SCREW, HEX HEAD CAP 5/16-18 X 1-1/2	-	4
66	1-861-010032-09	WASHER, FLAT 5/16W	-	8
67	10030	SEAL, BAR STOCK - NEOPRENE SPONGE	-	60"
68	1-560-010002-05	PLUG, PIPE 3/4-14	-	2
69	3-774-010002	TAG, ENGINE OIL (NOT SHOWN)	-	1
70	1-861-010032-07	WASHER, FLAT 1/4	6	-
71	3-182-010028	CLAMP, MUFFLER	-	1
72	3-120-010535	BRACKET WELDMENT, AIR INTAKE	1	-
73	*103716	COVER WELDMENT ENGINE DRIVE	2	-
74	*103717	PIN, COVER ACCESS ENGINE	2	-
75	*1-557-010362-40	PIN, COTTER 5/32 X 1-1/4	4	-

* THESE PARTS ARE SHOWN ON PAGE 1-67.

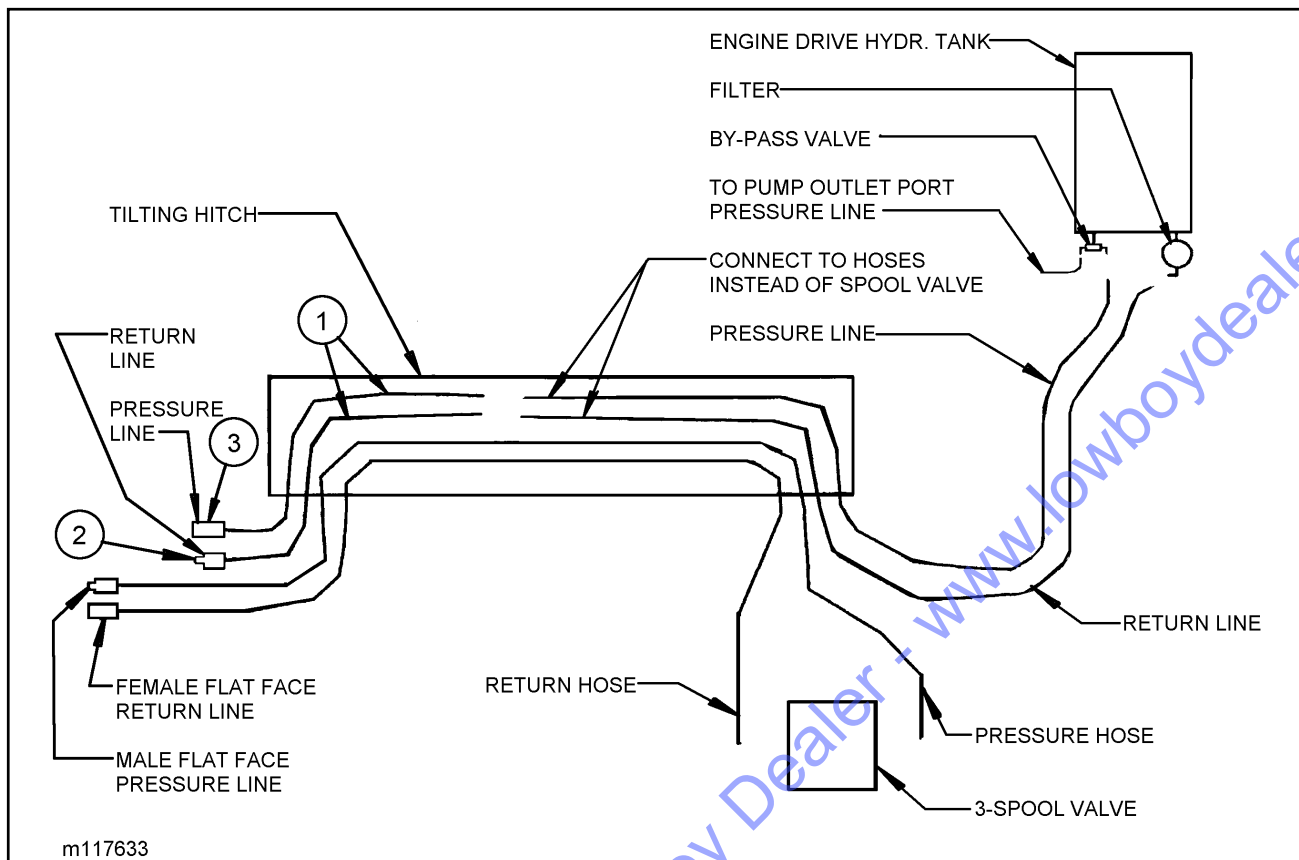


Figure 1-37 Dual Hydraulic Plumbing (Option)

DUAL HYDRAULIC PLUMBING (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	117633	DUAL HYDRAULIC PLUMBING	
1	117632	HOSE, 1/2 X 50	2
2	105479	COUPLER, FLAT FACE MALE NOSE	1
3	105480	COUPLER, FLAT FACE FEMALE BODY	1

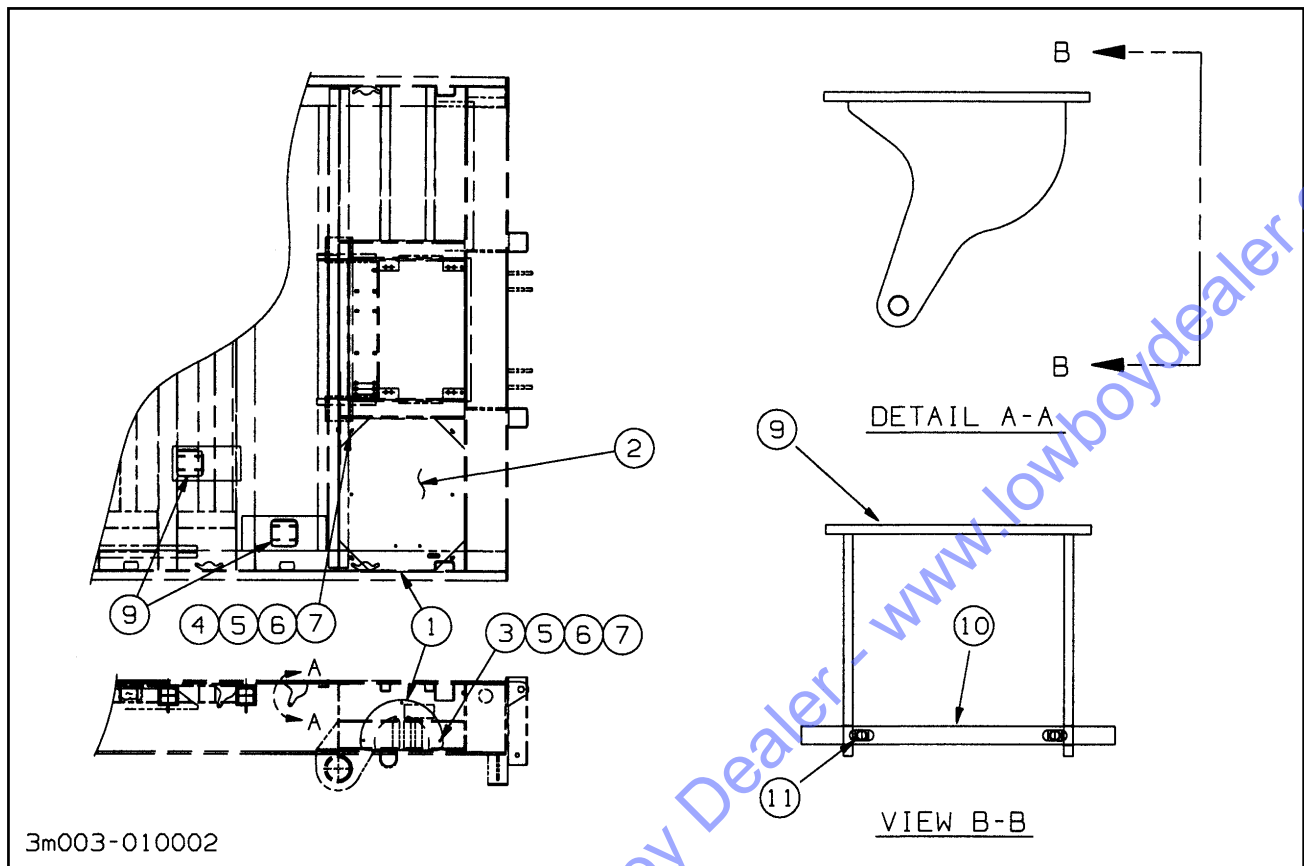
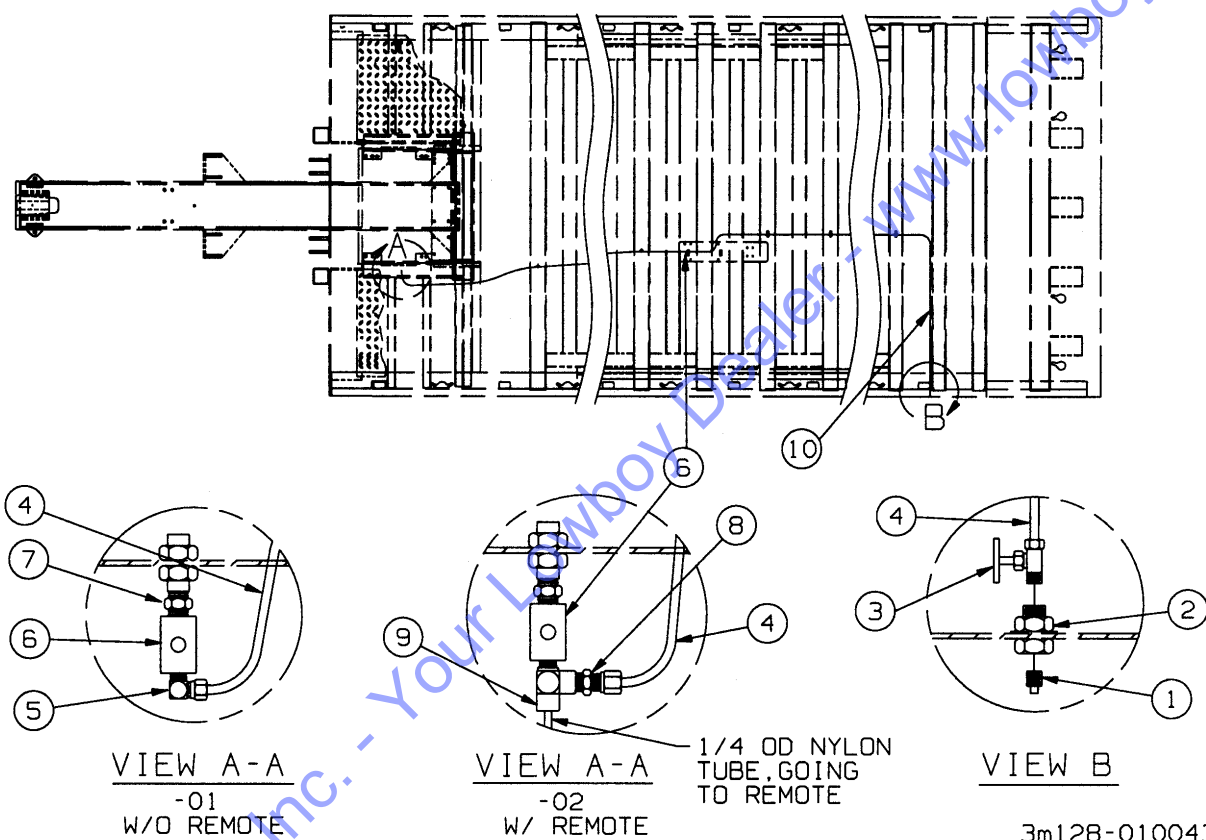


Figure 1-38 Accessories w/o Engine Drive

ACCESSORIES W/O ENGINE DRIVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-003-010002	ACCESSORY W/O ENGINE DRIVE 102	
	102374	ACCESSORY W/O ENGINE DRIVE 96	
1	3-222-010224	COVER, ENGINE AIR INTAKE	1
2	3-115-010185	TOOLBOX BOTTOM 102	1
	102373	TOOLBOX BOTTOM 96	1
3	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
5	1-861-010032-11	WASHER, FLAT 3/8	14
6	1-861-010034-11	WASHER, SPLIT LOCK 3/8	7
7	1-512-010007-07	NUT, HEX 3/8-16	7
9	103716	COVER WELDMENT ENGINE DRIVE	1
10	103717	PIN, COVER ACCESS ENGINE	2
11	1-557-010362-40	PIN, COTTER 5/32 X 1-1/4	4



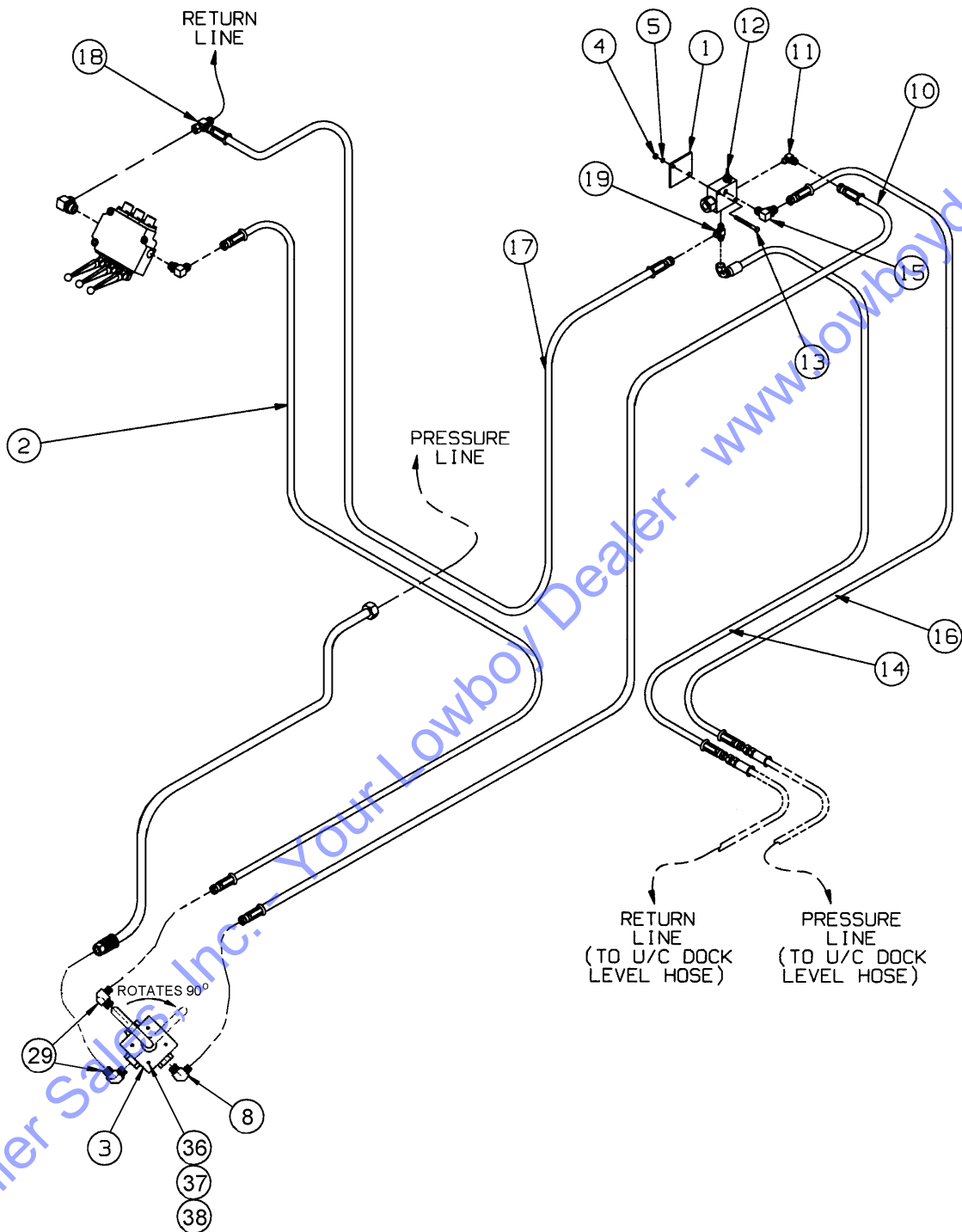
3m128-010043

Figure 1-39 Air Outlet Accessory (Option)

AIR OUTLET ACCESSORY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010043-01	AIR OUTLET ACCESSORY W/O REMOTE	
	3-128-010043-02	AIR OUTLET ACCESSORY W/ REMOTE	
1	1-560-010002-01	PIPE PLUG 1/4	1
2	1-297-010022-02	BULKHEAD COUPLING	1
3	A6760S	SHUTOFF VALVE	1
4	1-833-010002	TUBING, NYLON 3/8	35'
5	1-297-010008-18	FITTING, AIR 90	*1,-
6	905-54-107	BRAKE PROTECTION VALVE	*1,-
7	1-297-010019-05	FITTING, BRS PIPE HEX	*1,-
8	1-297-010007-11	FITTING, AIR	*-,1
9	1-297-010018-02	FITTING, STREET TEE	*-,1
10	3-181-010034-1	CLAMP CONDUIT STEEL 1/2	13

* FIRST QUANTITY LISTED IS FOR P/N 3-128-010043-01; SECOND QUANTITY LISTED IS FOR P/N 3-128-010043-02.



3ma407-010066

Figure 1-40 Hydraulic Installation
Dock Level w/ E-Chain

HYD. INSTALL. DOCK LEVEL W/ E-CHAIN (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010066-5	HYDRAULIC INSTALL. DOCK LEVELER W/ E-CHAIN	
1	3-482-010267	MOUNT, FLOW REGULATOR	1
2	1-397-010372030	HOSE ASSEMBLY 1/2 X 30-1/2	1
3	111696	VALVE, HYD SELECTOR, 3 WAY	1
4	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	4
5	1-861-010032-09	WASHER, FLAT 5/16	4
8	2062-12-8S	ADAPTER 90	1
10	1-397-010301028	HOSE ASSEMBLY 1/2 X 28	1
11	2062-8-8S	ADAPTER 90	1
12	1-626-010002	REGULATOR, FLOW 1/2 BYPASS ONLY	1
13	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2
14	1-397-010309110	HOSE ASSEMBLY 3/8 X 110	1
15	2062-8-6S	ELBOW 90	1
16	1-397-010307110	HOSE ASSEMBLY 3/8 X 110	1
17	1-397-010306032	HOSE ASSEMBLY 1/2 X 32	1
18	203102-12-12S	ADAPTER, TEE	1
19	203005-8-8S	ADAPTER, TEE	1
26	3-181-010006	HOSE CLAMP (USED W/ DOCK LEV.)(NOT SHOWN)	5
27	2-181-010001	HOSE CLAMP (USED W/O DOCK LEV.)(NOT SHOWN)	-5
29	2062-12-12S	ADAPTER 90	2
36	111024	SCREW, BUTTON HEAD CAP M6 X 14mm	4
37	1-861-010032-07	WASHER, FLAT 1/4	4
38	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4

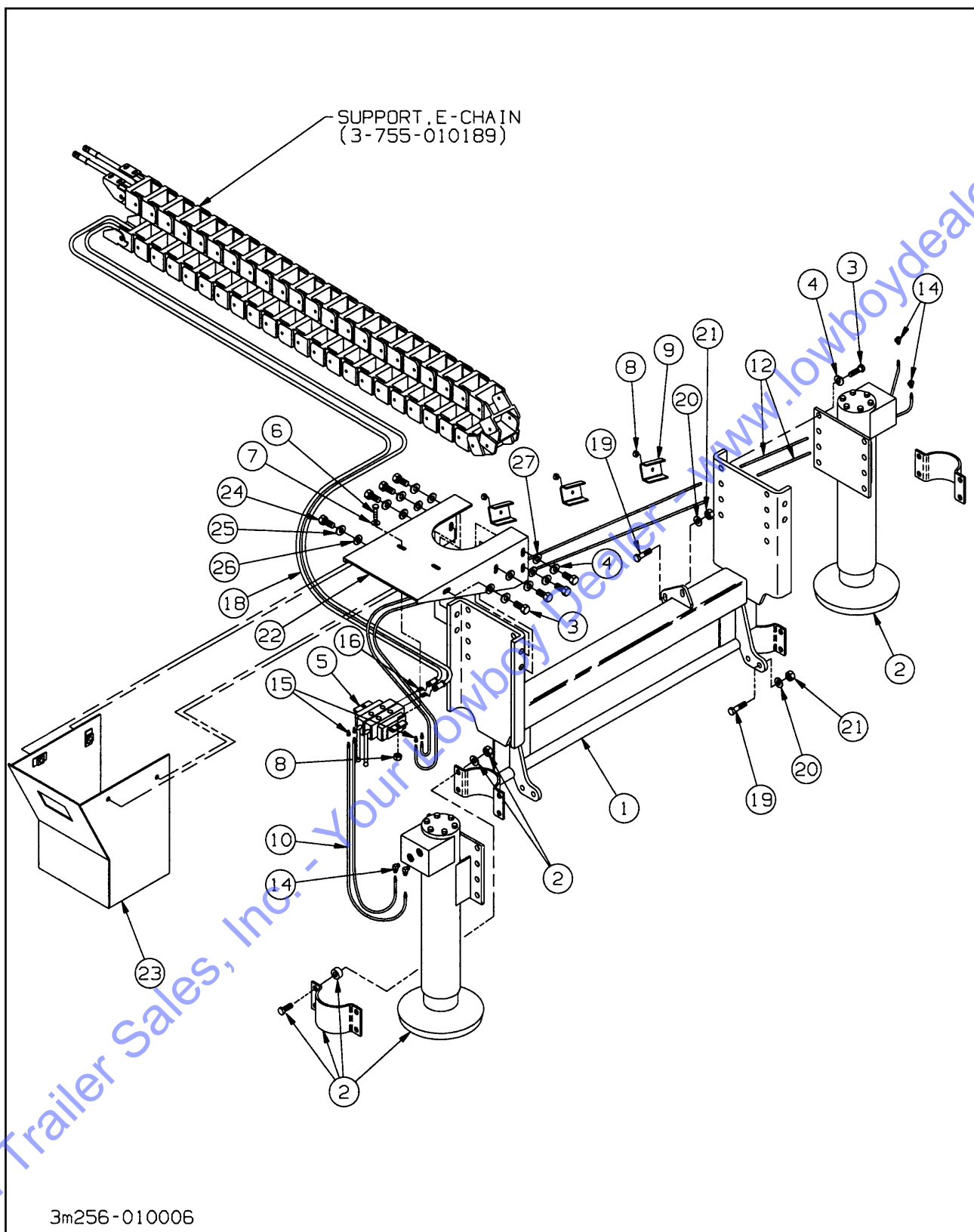


Figure 1-41 Dock Leveler Assembly

DOCK LEVELER ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY
	117493	DOCK LEVELER ASSEMBLY A/R 60K 345	
1	117489	MOUNT WELDMENT, DOCK LEVEL HD 345	1
2	3-242-010205	CYLINDER, HYD D/L 4 X 15 (SEE PAGE 1-75)	2
3	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	24
4	1-861-010034-15	WASHER, SPLIT LOCK 5/8	24
5	3-846-010056	VALVE, DOUBLE SPOOL (SEE PAGE 1-77)	1
6	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
7	1-861-010032-11	WASHER, FLAT 3/8	2
8	1-510-010001	NUT, FLANGE LOCK 3/8-16	6
9	2-181-010001	HOSE CLAMP	4
10	1-397-010262-4	HOSE ASSEMBLY 1/4 X 18	2
12	105799	HOSE ASSEMBLY 1/4 X 88	2
14	2062-6-4S	ADAPTER, 90	4
15	202702-6-4S	ADAPTER, STR	4
16	2061-6-6S	ADAPTER, 45	REF
18	1-397-010307216	HOSE ASSEMBLY 3/8 X 216	2
19	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
20	1-861-010032-14	WASHER, FLAT 1/2N	8
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
22	3-120-010351	BRACKET, BOLT ON DOCK LEVEL	1
23	3-681-010098	SHIELD, D/L VALVE R22.5	1
24	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
25	1-861-010034-13	WASHER, SPLIT LOCK 1/2	4
26	1-861-010032-15	WASHER, FLAT 1/2W	4
27	1-861-010032-18	WASHER, FLAT 5/8N	4

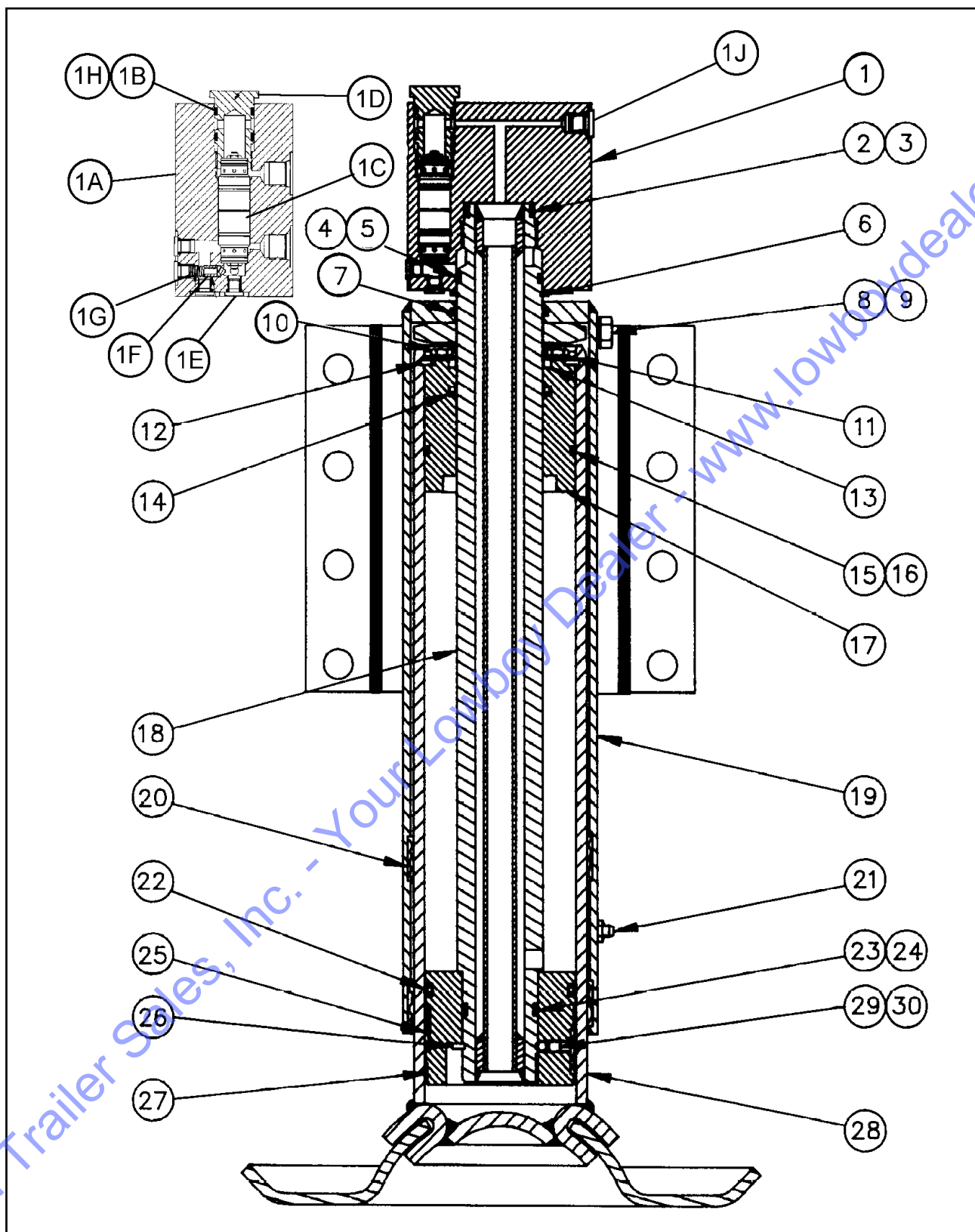


Figure 1-42 Dock Leveler Leg Assembly w/ Lock Valve

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010205	COMPLETE ASSY LEG CYL(60,000# CAP. 4.00" BORE)	
1	300092	4:1 LOCK VALVE ASSY	1
1A	300093	4:1 LOCK VALVE BODY	1
1B	01-1006	O-RING	2
1C	300427	PILOT OPERATED CHECK VALVE	2
1D	300022	RETAINING PLUG	1
1E	07-1061	HEX PLUG HOLLOW #02 SAE	5
1F	300003	POPPET	1
1G	31-1016	SPRING	1
1H	05-1009	BACK-UP WASHER	2
1J	07-1201	HEX PLUG HOLLOW #04 SAE	1
2	NSS**	O-RING	1
3	NSS**	BACK-UP WASHER	2
4	NSS**	O-RING	1
5	NSS**	BACK-UP WASHER	1
6	NSS**	SNAP RING 2" ROD	1
7	NSS**	O-RING	1
8	15-1021	SCREW HEX HEAD CAP	1
9	16-1002	LOCK WASHER	1
10	15-1012	SCREW HEX HEAD CAP	4
11	100279	CYLINDER HEAD RETAINER	1
12	NSS**	RETAINING RING	1
13	NSS**	OIL SEAL	1
14	NSS**	ROD SEAL	1
15	NSS**	O-RING	1
16	NSS**	BACK-UP WASHER	1
17	100276	CYLINDER HEAD	1
18	***	PISTON ROD	1
19	***	WELL TUBE	1
20	NSS**	WEAR RING	2
21	10-1001	GREASE FITTING	1
22	NSS**	PISTON SEAL	1
23	NSS**	O-RING	1
24	NSS**	BACK-UP WASHER	2
25	NSS**	WEAR RING	1
26	17-1003	SNAP RING	1
27	***	PISTON	1
28	***	CYLINDER TUBE	1
29	NSS**	NYLON BALL	1
30	NSS**	SET SCREW	1
31	100348	SPLIT COLLAR ASSY (60,000 LB.)(NOT SHOWN)	1
	100140	SPLIT COLLAR HALF (60,000 LB.)	2
	101449	LEG COLLAR MOUNTING KIT(INCL. THE FOLLOWING:)	1
	15-1024	SCREW, HEX HEAD CAP 1/2-20 X 2 GR5	4
	15-1025	NUT, HEX LOCK 1/2-20	4
	101129-1	SPACER, SPLIT COLLAR	4

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

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

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

NSS: NOT SOLD SEPARATELY.

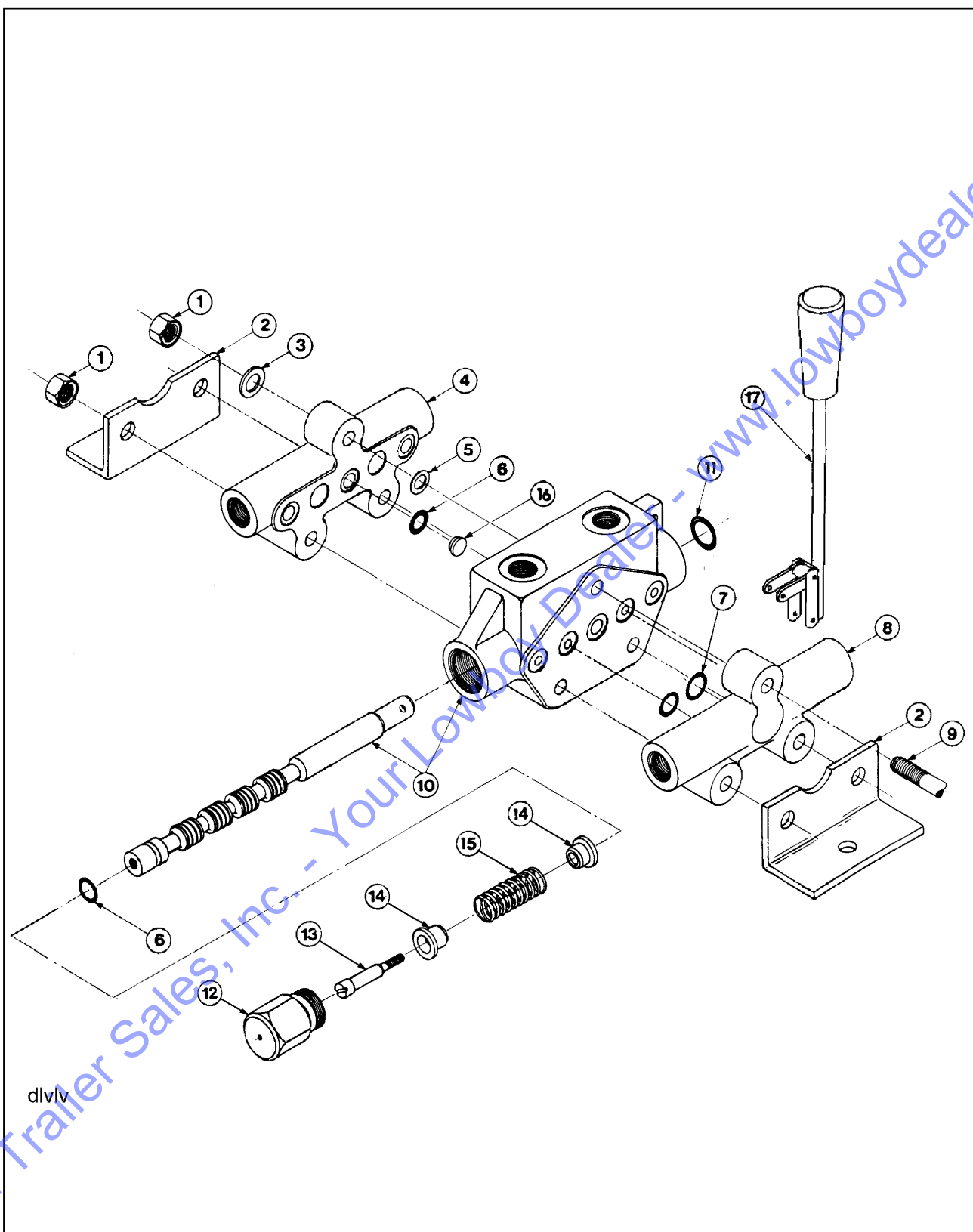
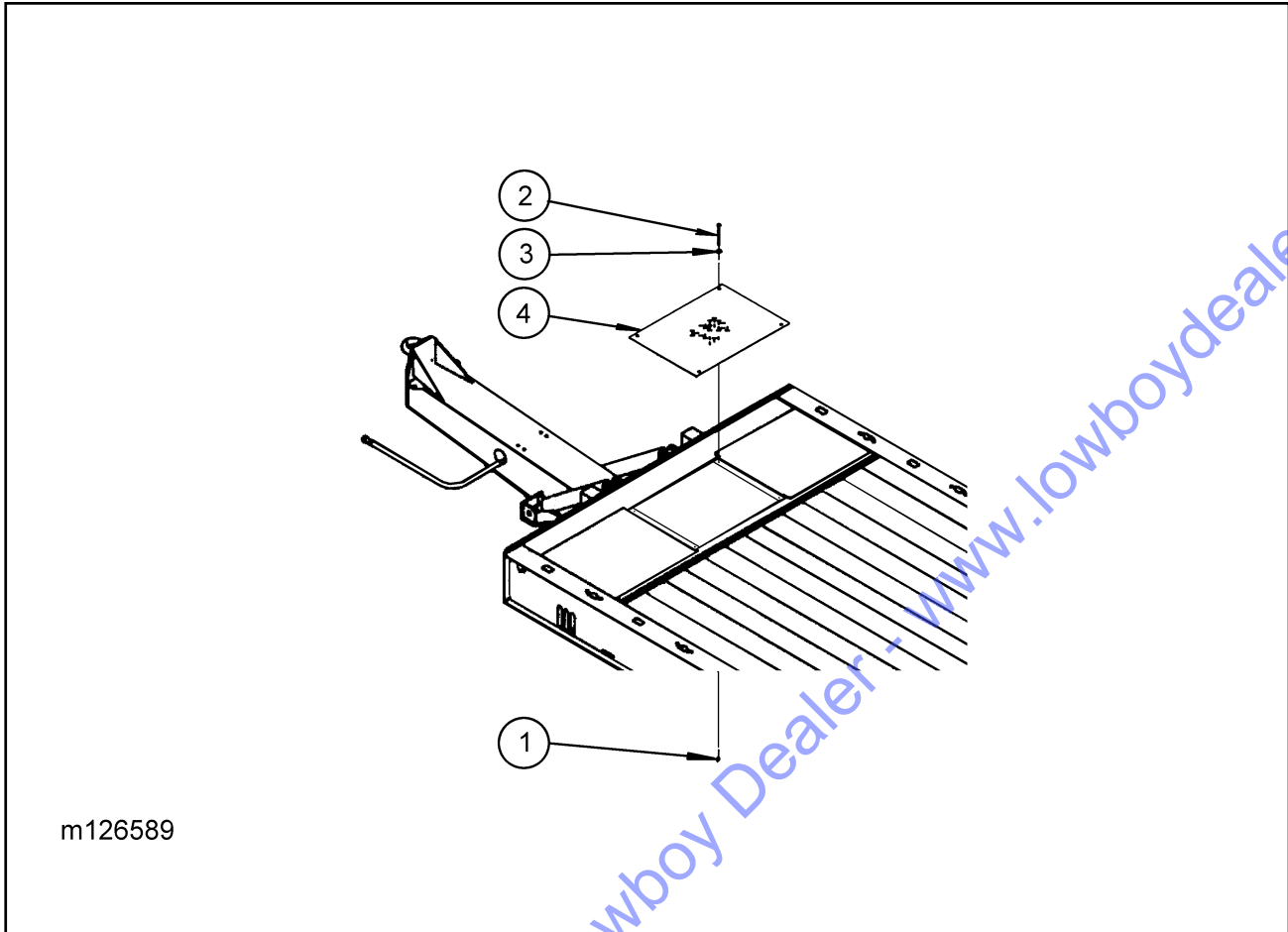


Figure 1-43 Dock Leveler Valve

DOCK LEVELER VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010056	DOUBLE SPOOL STACK VALVE-PARALLEL	1
1	1005013	NUT	3
2	4014240	MOUNTING BRACKET	2
3	1008008	WASHER	2
4	6402000	OUTLET SECTION (INCLUDES SEALS)	1
	6029521	OUTLET SEAL KIT	
5	4023150	MYLAR SHIM (BETWEEN SECTIONS)	3
6	0101012	O-RING	1
7	0101013	O-RING	10
8	6401003	INLET SECTION (INCLUDES SEALS)	1
	6009250	INLET SEAL KIT	
9	4023774	TIE ROD	3
10	6400000	VALVE SECTION	2
	6029520	VALVE SECTION SEAL KIT (INCL ITEMS 5, 6, 7, & 11)	6
11	0101112	O-RING	2
12	4010500	SPRING CAP	2
13	4010520	SPRING SHAFT	2
14	4010530	SPRING GUIDE	4
15	—	SPRING	2
16	4011702	CLOSED CENTER PLUG	1
17	6405000	HANDLE KIT	2
	6404002	BANKING KIT (INCLUDES ITEMS 1, 2, 3, & 9)	2
	128865	SEAL KIT FOR 3-846-010056	



m126589

Figure 1-44 Winch Opening Cover Assembly (Option)

WINCH OPENING COVER ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY
	126589	COVER, WINCH OPENING ASSEMBLY	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
2	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2W	4
4	126588	COVER, WINCH OPENING	1

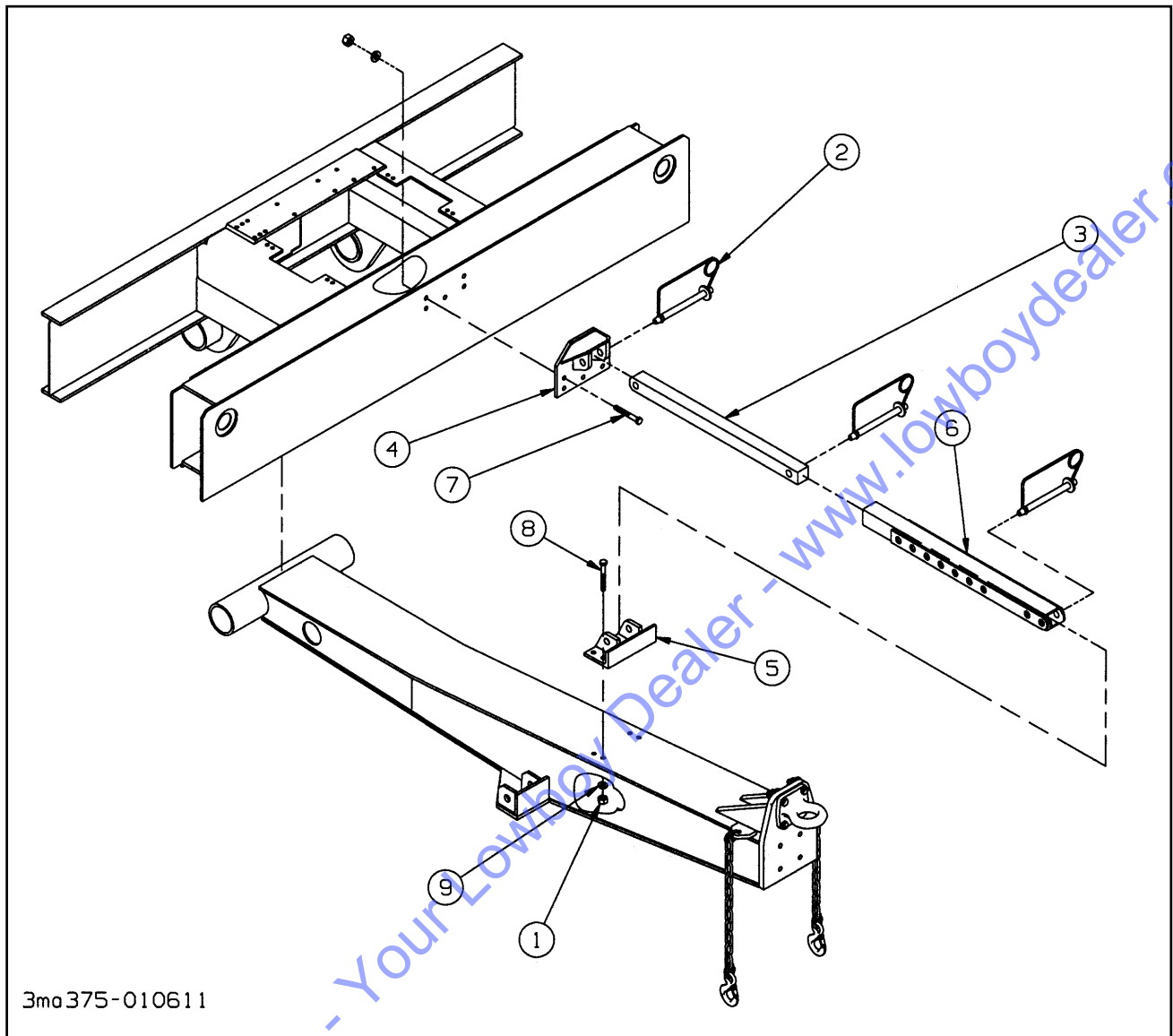
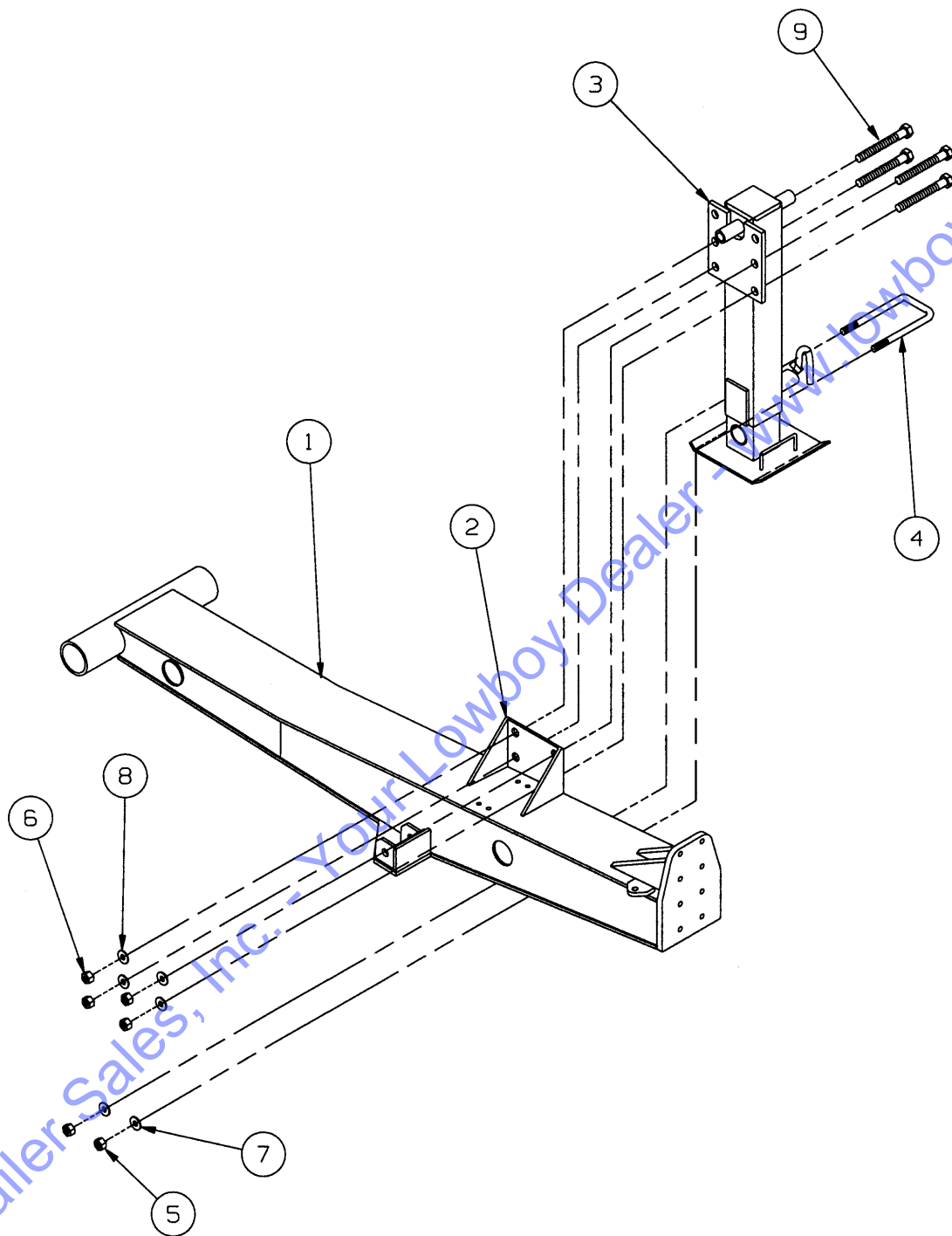


Figure 1-45 Hitch Lock Installation (Option)

HITCH LOCK INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY
	3-375-010611	HITCH LOCK INSTALLATION	
1	1-512-010007-11	NUT HEX 5/8-11 GR2	9
2	100SL	LOCK HITCH PIN 1X5-1/2	3
3	3-311-015070	SHAFT TILT LOCK	1
4	3-311-015074	MOUNT WELDMENT UPPER	1
5	3-311-015075	MOUNT WELDMENT LOWER	1
6	3-311-015078	TUBE WELDMENT TILT LOCK	1
7	1-654-010059-04	SCREW HEX HEAD CAP 5/8-11X1-3/4 GR5	5
8	1-654-010059-05	SCREW HEX HEAD CAP 5/8-11X2 GR5	4
9	1-861-010034-15	WASHER SPLIT LOCK 5/8	9



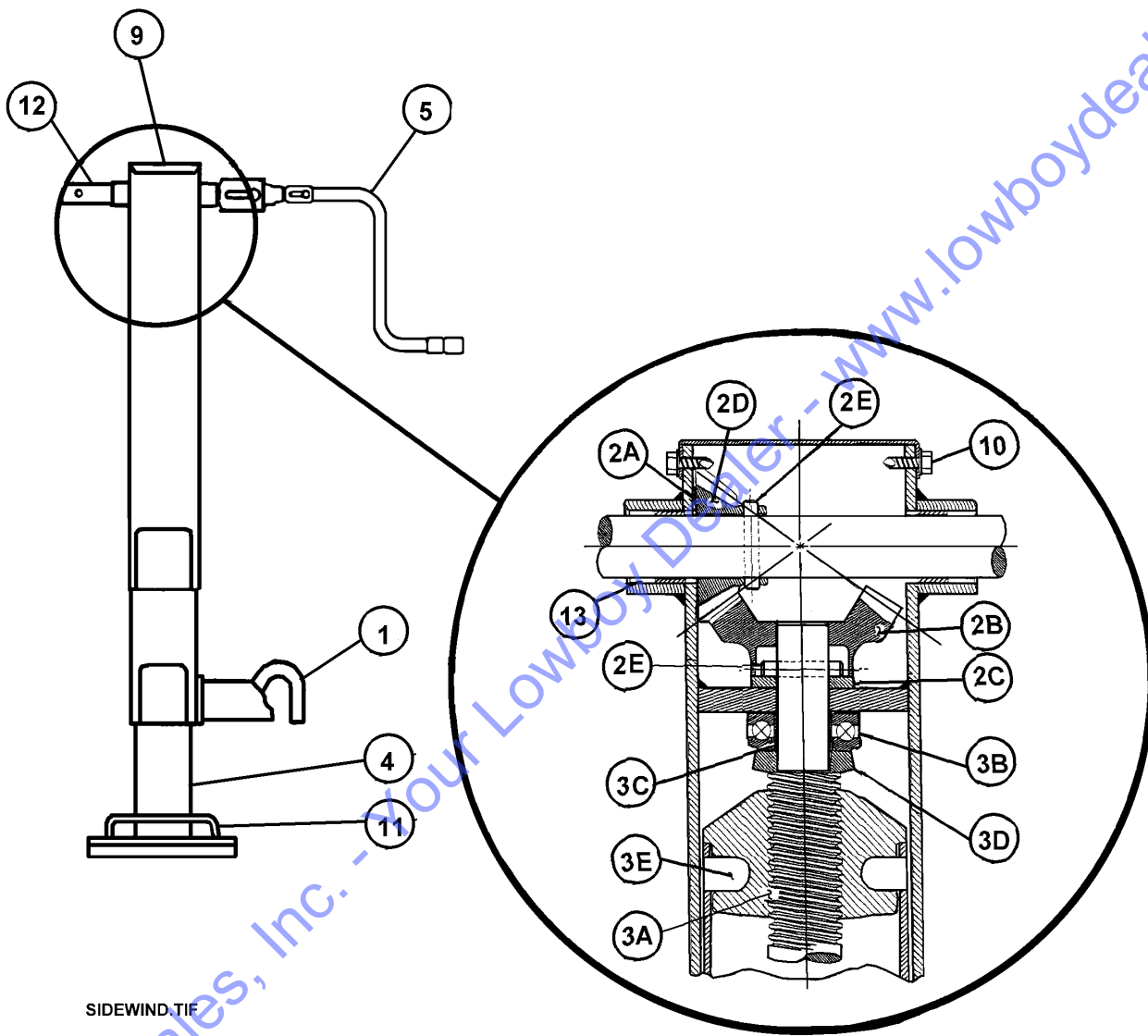
3m423-010036

Figure 1-46 Jack Installation, 12K, 5' Hitch

Dock Level w/ E-Chain

JACK INSTALLATION, 12K, 5FT HITCH (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-423-010036	JACK INSTALLATION, 12K, 5' HITCH	
1	3-375-010140	HITCH ASSEMBLY 5 FT	REF
2	3-125-010542	BRACKET, INSTALLATION 12K JACK	REF
3	3-423-010037	JACK WELDMENT 12K, 5' HITCH (SEE PAGE 1-83)	1
4	6-102-010009	U-BOLT RIGID GAUGE WHEEL	1
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
6	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
7	1-861-010032-19	WASHER, FLAT 5/8W	2
8	1-861-010032-21	WASHER, FLAT 3/4W	4
9	1-654-010061-03	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR5	4



SIDEWIND.TIF

Figure 1-47 Jackstand Assembly

Dock Level w/ E-Chain

JACKSTAND ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-423-010035	JACK 12000 DROPLEG W/ CRANK (HAMMERBLOW P/N 182400)	
1	500177	PLUNGER KIT, W/ "J" PIN (INCL PLUNGER PIN, SPRING, WASHER, AND 3/16 X 1 COTTER PIN)	
2	500212	GEAR KIT, STYLE III JACKS CONSISTS OF THE FOLLOWING:	
2A	016013	WEAR PLATE 22 GAGE	
2B	020023	BEVEL GEAR LARGE 18 TEETH	
2C	016053	WEAR PLATE 7 GAGE	
2D	020022	BEVEL PINION GEAR SMALL 12 TEETH	
2E	009062	1/4" X 1-1/2" GROOVE PIN	
2F	011905	SERVICE BULLETIN (NOT SHOWN)	
3	500213	SCREW & NUT REPLACEMENT KIT CONSISTS OF THE FOLLOWING:	
3A	712205	SCREW AND NUT ASSEMBLY	
3B	001003	2.015" O.D. BEARING	
3C	021163	SPLIT BUSHING	
3D	016048	BEARING SEAT	
3E	009052	RETAINING PIN	
3F	011905	SERVICE BULLETIN (NOT SHOWN)	
4	701178	INNER RAM AND STANDARD DROP LEG ASSEMBLY (INCLUDES DROP LEG W/ BASE AND LIFT HANDLE, INNER RAM W/ NEW CAM-LOCK HOUSING AND "J" PIN)	
5	015181	CRANK ASSEMBLY FOR SIDEWIND SIDE MOUNT	
	701140	CRANK HANDLE NARROW VERT CLEVIS W/ RD CORN	
	015191	3/8" X 2-1/2" PLATED HEX BOLT	
	008008	3/8" PLATED LOCKNUT	
	015911	3/8" PLATED WASHER	
6	005120	HANDLE CLIP (NOT SHOWN)	
9	017802	SQUARE GEARBOX COVER	
10	017806	COVER SCREW	
11	021040	BASE PLATE LIFT HANDLE	
12	006098	NEW STYLE (CENTERED) CROSS SHAFT, STYLE III	
13	017012	SLEEVE BEARING ON CROSS SHAFT	

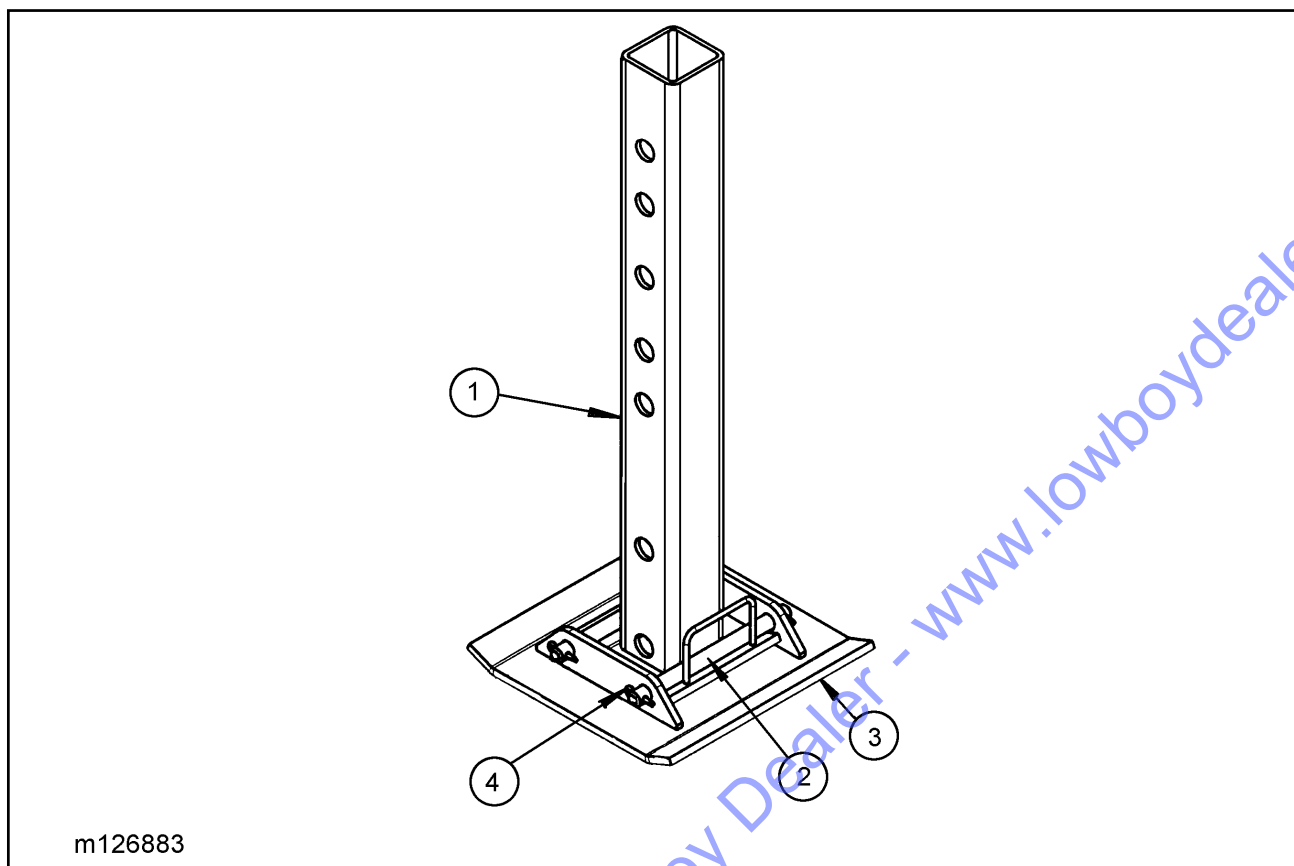


Figure 1-48 Sand Pad Installation

SAND PAD INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	126883	SAND PAD INSTALLATION	
1	3-311-010145	PARKING STAND	REF
2	126881	PIN, SAND PAD	4
3	126879	SAND PAD WELDMENT	2
4	1-557-010362-59	PIN, COTTER 1/4 X 1	8

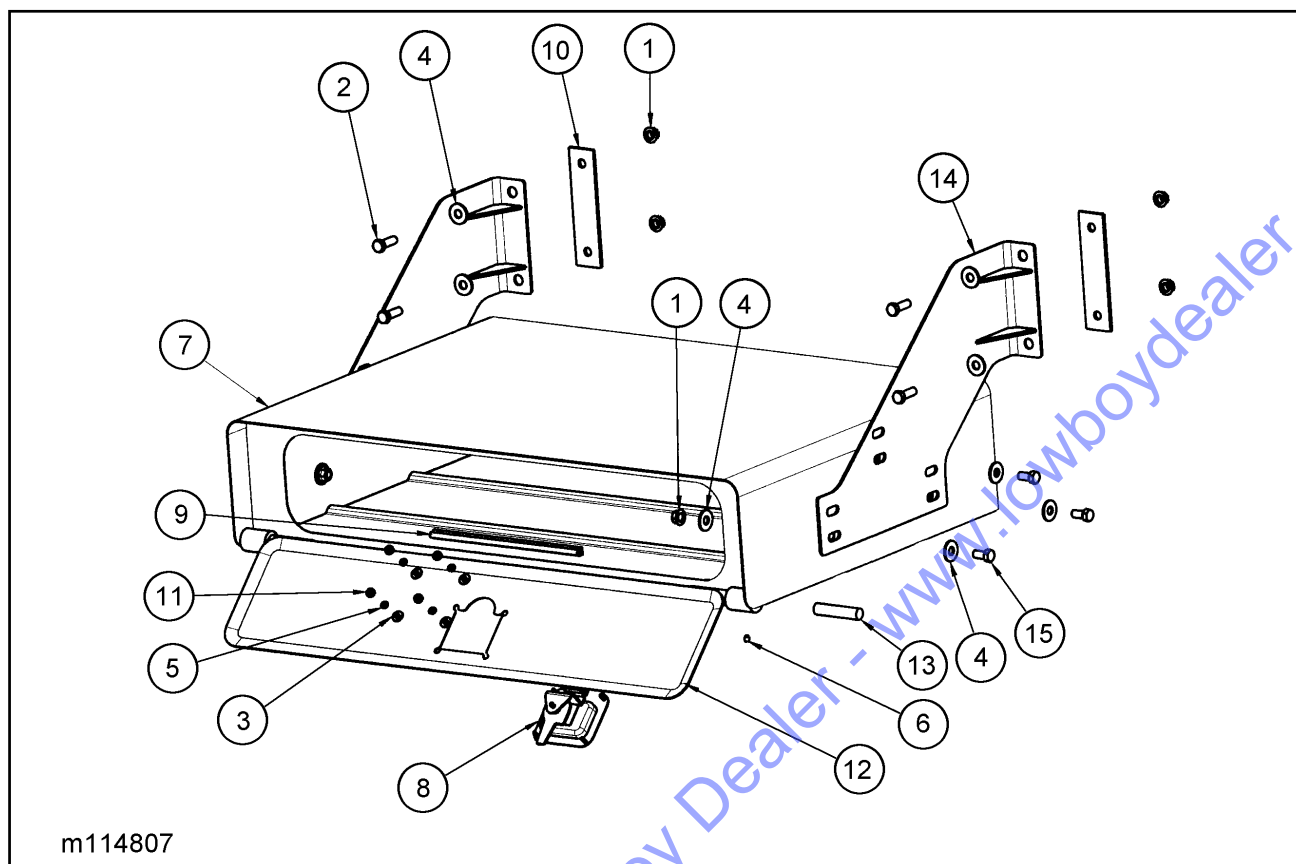


Figure 1-49 Steel Door Toolbox Installation (Option)

STEEL DOOR TOOLBOX INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	114807	STEEL DOOR TOOLBOX INSTALLATION	
1	1-510-010003-09	NUT, FLANGE HEAD SERR 1/2-13	10
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-861-010032-07	WASHER, FLAT 1/4W	4
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
6	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
7	114808	TOOLBOX WELDMENT	1
8	114814	LATCH FOLDING T LOCKABLE	1
9	114815	SEAL SPONGE RUBBER TRIM	7
10	115843	BAR BACKUP TOOLBOX MOUNTING	2
11	115877	NUT, HEAVY HEX 1/4-20 GR5	4
12	116623	DOOR WELDMENT STEEL TOOLBOX	1
13	RPRB59004X3H	BAR, ROUND 3/4 X 3-1/2 NYLATRON	2
14	117860	BRACKET, WELDMENT TOOLBOX MOUNTING	2
15	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	6

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