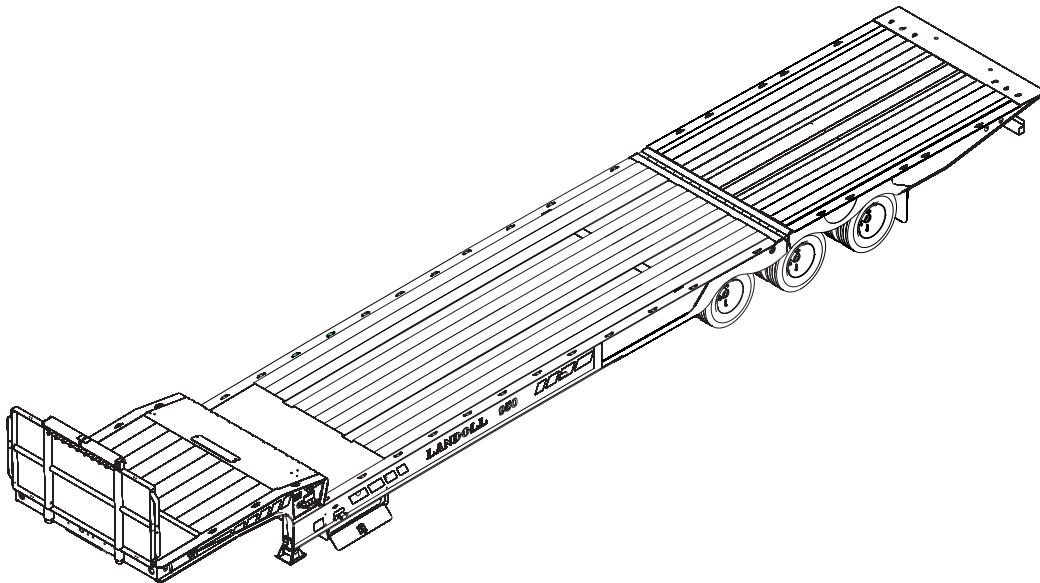




**MODEL 900B SERIES
HYDRAULIC TAIL SEMITRAILER
PARTS LIST**



**1900 NORTH STREET
MARYSVILLE, KANSAS 66508
(785) 562-5381**

ILLUSTRATED PARTS LIST

1

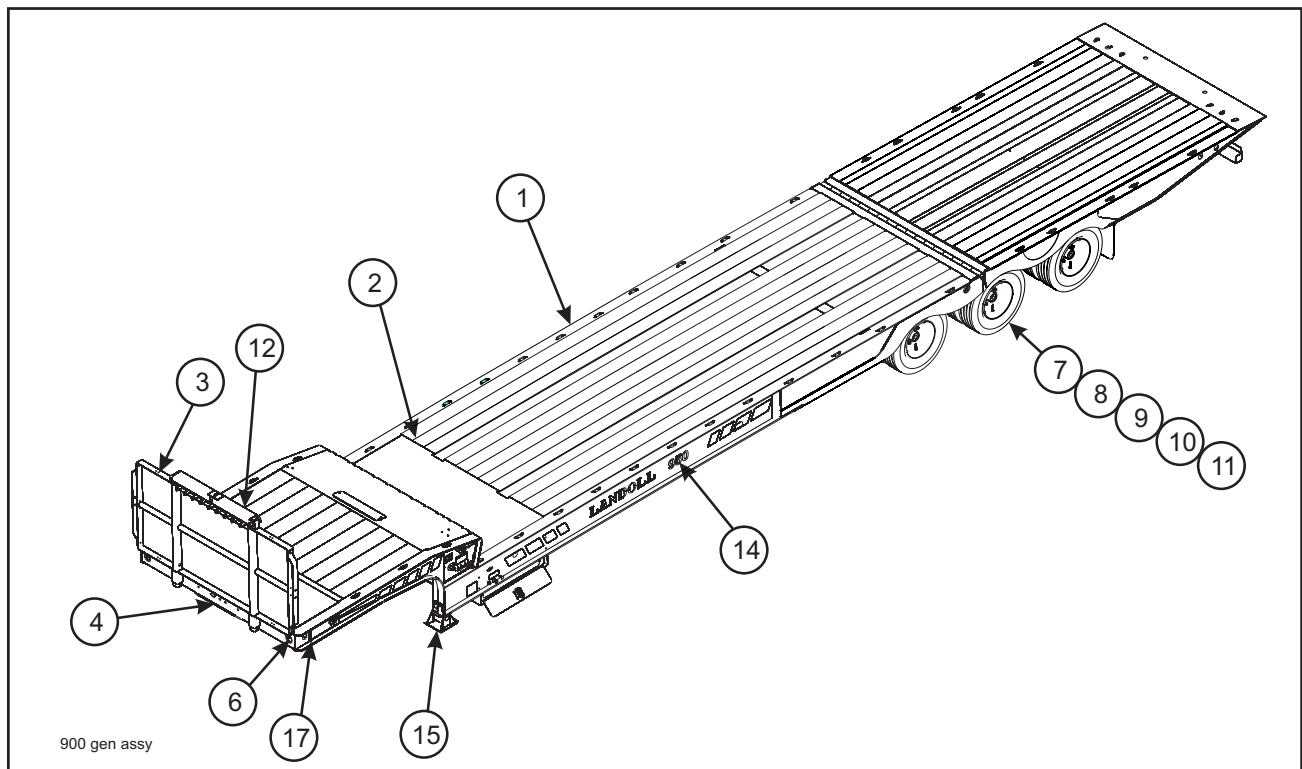
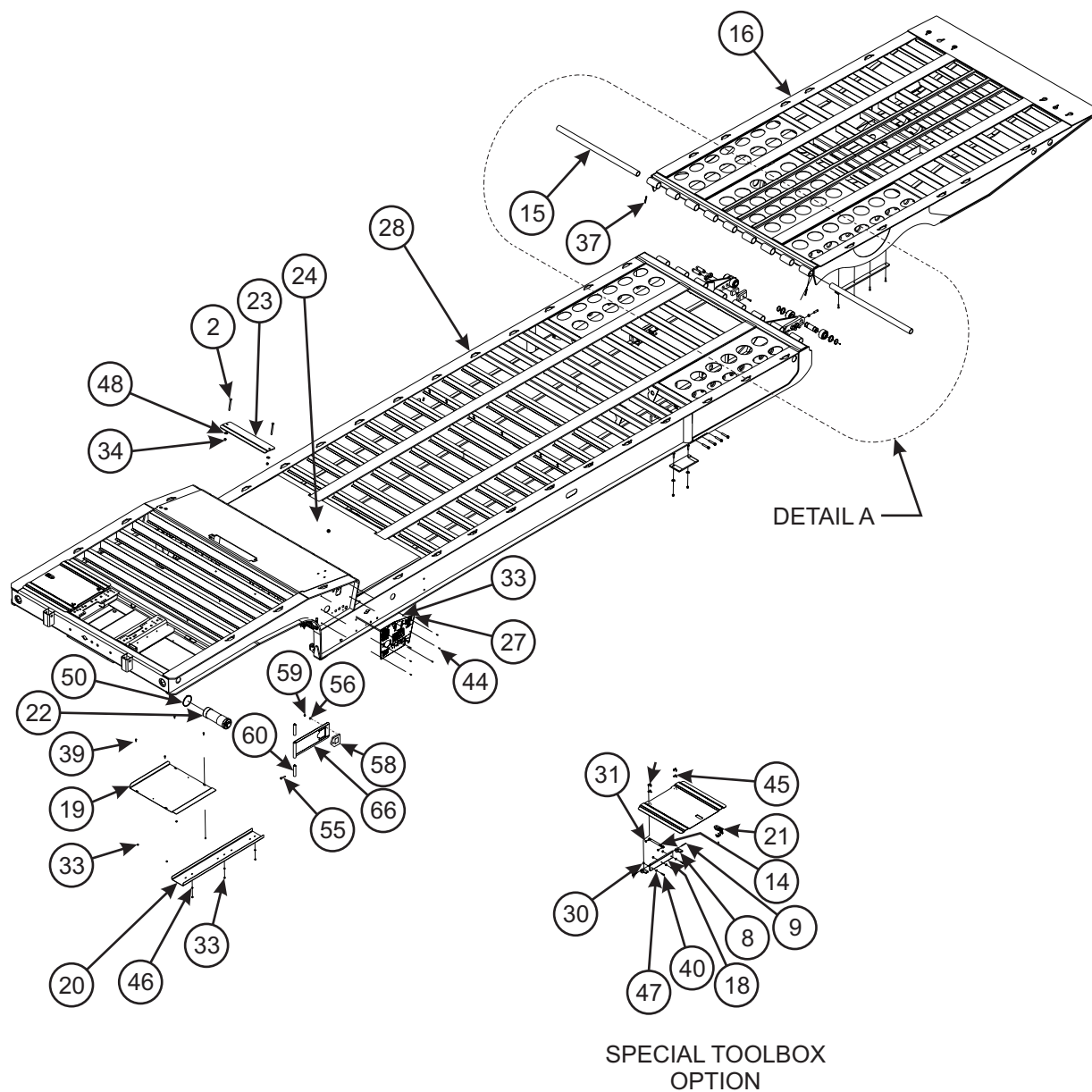


Figure 1-1 General Assembly

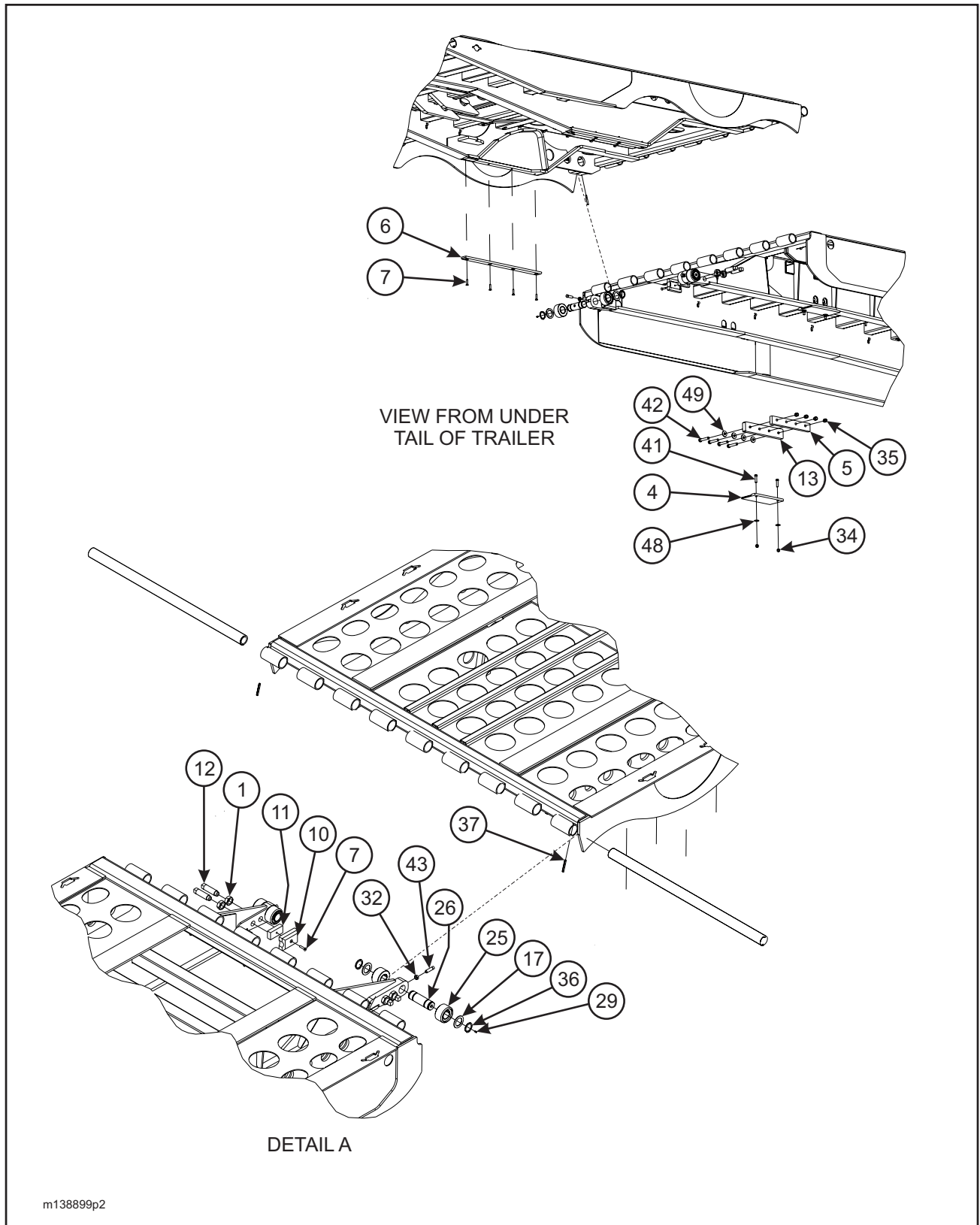
GENERAL ASSEMBLY

ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1	1-2 - 1-5	FRAME ASSEMBLIES	1
2	1-6 - 1-7	AIR RAMP ASSEMBLY	1
3	1-8 - 1-9	BULKHEAD ASSEMBLY (OPTION)	1
4	1-10 - 1-11; 1-14 - 1-19	HYDRAULIC SYSTEM INSTALLATION	1
5	1-12 - 1-13	HYDRAULIC WET KIT (OPTION) (NOT SHOWN)	1
6	1-17 - 1-19	ELECTRICAL SYSTEM	1
7	1-20 - 1-29; 1-32 - 1-33	UNDERCARRIAGE, AIR RIDE SUSPENSION	1
8	1-30 - 1-31	AXLE AND BRAKE	AR
9	1-34 - 1-37	AIR BRAKE SYSTEM	1
10	1-38 - 1-41	AIR SYSTEM ABS	1
11	1-42 - 1-43	HUB AND DRUM	4
12	1-44 - 1-79	WINCH ASSEMBLIES	1
13	1-80 - 1-85	REMOTE CONTROL (OPTION)	1
14	1-86 - 1-89	DECAL INSTALLATION	1
15	1-90 - 1-93	LANDING GEAR	2
16	1-94 - 1-103	AUXILIARY ENGINE HYDR POWER (OPTION) (NOT SHOWN)	1
17	1-104 - 1-119	MISCELLANEOUS OPTIONS	1



m138891p1

Figure 1-2 Frame Assembly
(1 of 2)



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

FRAME ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	---	FRAME ASSEMBLY	
1	100823	NUT, HEX JAM 1-1/4 X 7 GR2	4
2	100939	SCREW, RD HEAD SQ NECK 1/2-13 X 5-1/2	2
3	101299	KEY CHAIN, LANDOLL	1
4	107621	GLIDE, U/C	2
5	107622	BLOCK MOUNTING NYLATRON HOLDOWN	2
6	107660	GLIDE, U/C	2
7	108294	SCREW, HEX SOCKET 3/8-16 X 1-3/4	10
8	108545	HINGE, DOOR FRAME	4
9	108601	PIN, DOOR HINGE	4
10	108700	BLOCK, CTRG NYLATRON (AFTER 1/1/00)	2
11	108701	BLOCK, CTRG ADJUSTMENT	2
12	109004	ROD, THREADED ADJUSTMENT	4
13	109138	NYLATRON HOLD-DOWN BLOCK	2
14	110435	CONSOLE LIFT, GAS SPRING	2
15	113214	TUBE, ROUND 2-3/8 X 1-3/4 X 49-1/2	2
16	112636	TAIL WLDMT WOOD 12' (USED ON SM. BRAKE TRLRS)	1
	119984	TAIL WLDMT WOOD 14' (USED ON SM. BRAKE TRLRS)	1
	113427	TAIL WLDMT WOOD 15' (USED ON SM. BRAKE TRLRS)	1
	136259	TAIL WLDMT WOOD 12' (USED ON LG BRAKE TRAILERS)	1
	136291	TAIL WLDMT WOOD 14' (USED ON LG BRAKE TRAILERS)	1
	115623	TAIL WLDMT WOOD 15' (USED ON LG BRAKE TRAILERS)	1
17	114562	BUSHING, MACHINE HARD 3 X 2 X 10GA	4
18	116856	HINGE, BASE TOOLBOX LID	2
19	117544	PLATE TOOLBOX BOTTOM	2
20	117565	COVER, HOSE LOWER	1
21	118853	LATCH, COMPRESSION	2
22	130511	TUBE ASSEMBLY, MANUAL STORAGE	1
23	131196	PLATE, WINCH CABLE WEAR U/D	1
24	135415	RAMP ASSY 4FT (SEE PAGE 1-7)	1
25	135613	ROLLER, 4" ASSEMBLY CONNEX	4
26	135614	PIN, ROLLERS REAR	2
27	136205	PLACARD CONTROL PANEL 900B	1
28	---	FRAME WLDMT	1
29	1-298-010001-1	ZERK FITTING 1/4	2
30	1-510-010001	NUT, FLANGE LOCK 3/8-16	6
31	1-510-010004-03	NUT, FLANGE HEAD SPIRALOCK 5/16-18	4
32	1-511-010001-07	NUT, HEX JAM 5/8-11	2
33	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	17
34	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
35	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	8
36	1-630-010021-02	RING RETAINING 2 HD (AFTER 9/21/99)	4
37	1-647-010004259	SPRING PIN SLOTTED 3/8 X 3	2
38	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	12
39	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	8
40	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	6
41	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)	4

FRAME ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
42	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	8
43	1-654-010150-05	SCREW, SET SQ HD CUP PT 5/8 X 2	2
44	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4	19
45	1-861-010032-06	WASHER, FLAT 1/4N	12
46	1-861-010032-08	WASHER, FLAT 5/16	8
47	1-861-010032-10	WASHER, FLAT 3/8N	6
48	1-861-010032-15	WASHER, FLAT 1/2	4
49	1-861-010032-19	WASHER, FLAT 5/8	8
50	105-0094	HOSE CLAMP 4-1/8	1
51	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB (NOT SHOWN)	10
52	1-512-010007-05	NUT, HEX 1/4-20 (NOT SHOWN)	21
53	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8 (NOT SHOWN)	8
54	1-654-010070-04	SCREW RD HEAD SQ NECK 1/2-13 X 1-3/4 (NOT SHOWN)	4
55	1-654-010147-06	SCREW, RD HEAD SELF TAP #6-20 X 3/4	8
56	1-861-010034-09	WASHER, SPLIT LOCK 1/4	21
57	105909	SCREW, RD HEAD SQ NECK 5/16-18 X 3/4 (NOT SHOWN)	6
58	114814	LATCH, FOLDING T LOCKABLE	2
59	115877	NUT, HEX HEAVY 1/4-20 GR5	8
60	135181	BUSHING NYLATRON TOOLBOX	4
61	239-9076-009	CLAMP, HOSE 1-1/4 (NOT SHOWN)	1
62	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 (NOT SHOWN)	3
63	1-861-010032-07	WASHER, FLAT 1/4 (NOT SHOWN)	8
64	1-861-010032-11	WASHER, FLAT 3/8 (NOT SHOWN)	6
65	125837	ROLLER AND PIN KIT (INCL ITEMS 17, 25, 26, 29,36)	1
66	136352	DOOR WELDMENT, TOOLBOX	2

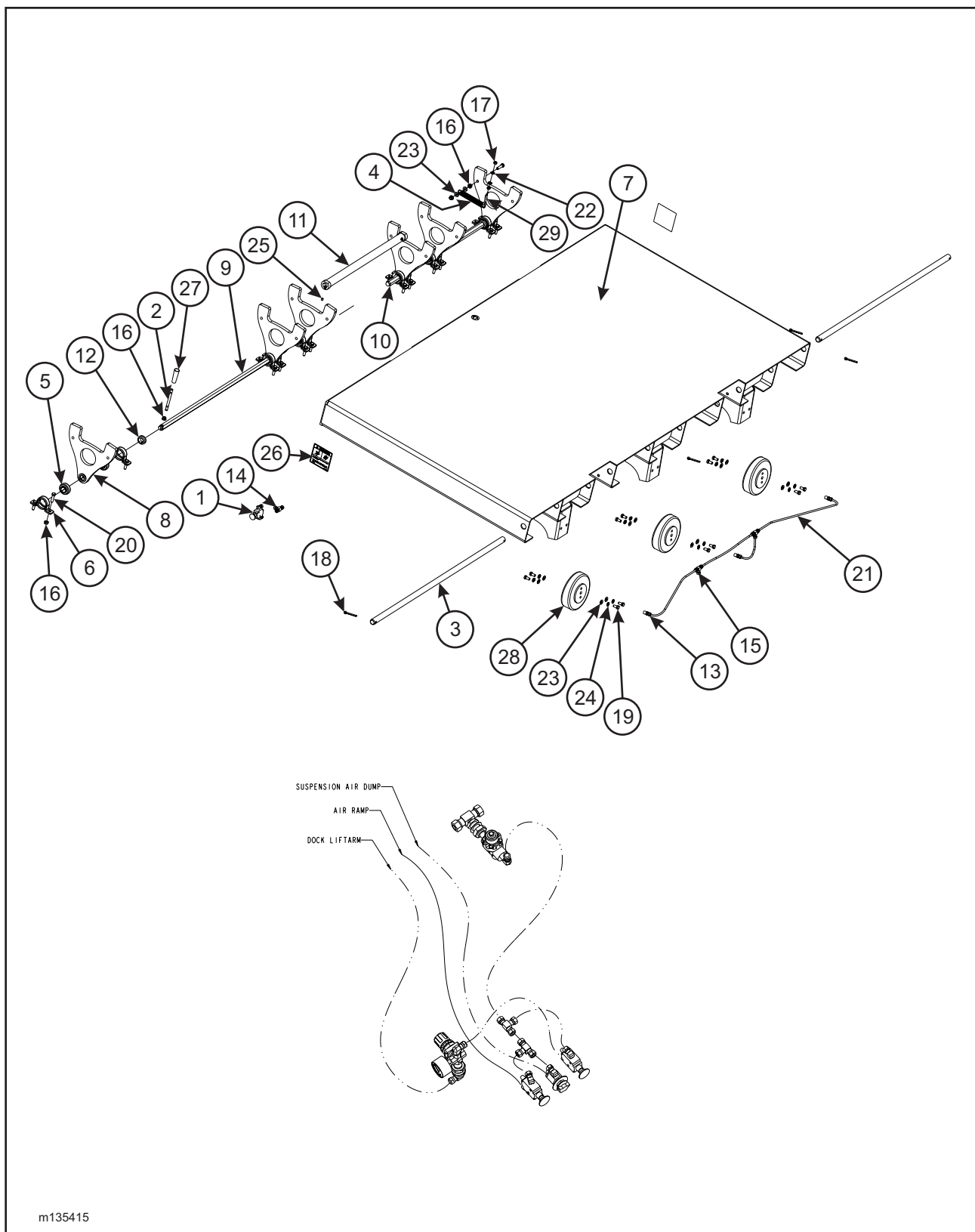
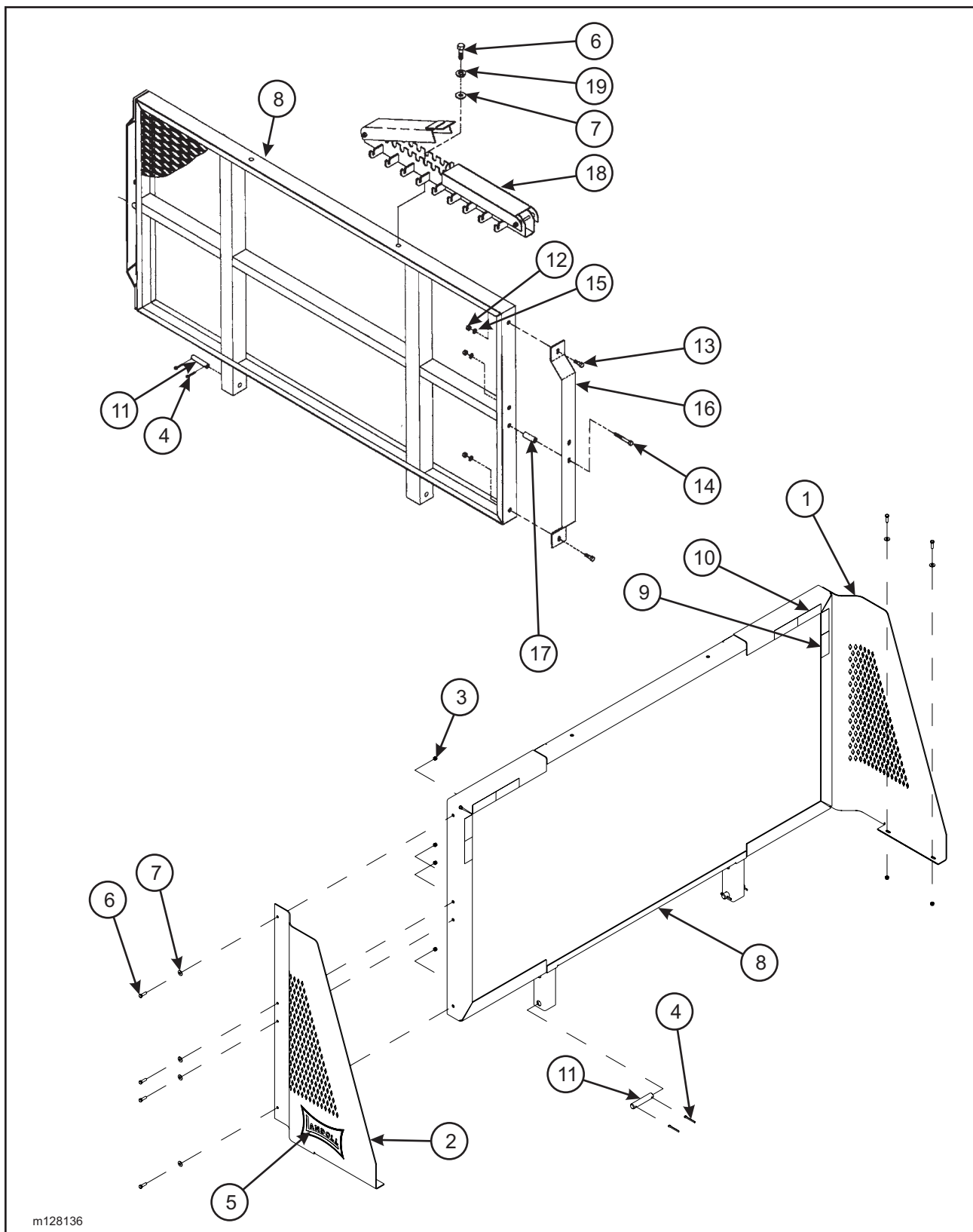


Figure 1-4 Air Ramp Assembly

AIR RAMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	135415	RAMP ASSEMBLY 4'	
1	107887	VALVE AIR PUSH BUTTON	1
2	108969	ROD, THREADED RAMP HDL	1
3	113532	PIN, RAMP HINGE (2 PIECE PIN)	2
4	129985	SPRING, EXTENSION	1
5	135357	BEARING, SELF ALIGN	12
6	135398	PILLOW BLOCK STAMPED	12
7	135414	RAMP WELDMENT 4'	1
8	136225	LATCH WELDMENT, RAMP	6
9	137065	SHAFT, LH HEX RAMP LATCH	1
10	137066	SHAFT, RH HEX RAMP LATCH	1
11	137069	COUPLER, SHAFT RAMP LATCH	1
12	71503635	COLLAR, RETAINING 1"	2
13	1-297-010007-05	FITTING, AIR	3
14	1-297-010008-05	FITTING, AIR 90	2
15	1-297-010010-01	FITTING, AIR UNION TEE	3
16	1-510-010001	NUT, FLANGE LOCK 3/8-16	27
17	1-512-010007-06	NUT, HEX 5/16-18	2
18	1-557-010362-63	PIN, COTTER 1/2 X 2	4
19	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	12
20	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	25
21	1-833-010001	TUBING NYLON 1/4	AR
22	1-861-010032-08	WASHER, FLAT 5/16	2
23	1-861-010032-10	WASHER, FLAT 3/8N	14
24	1-861-010034-11	WASHER, SPLIT LOCK 3/8	12
25	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
26	2-573-010335	DECAL, DANGER PINCHING	2
27	3-360-010072	HANDLE PLASTIC	1
28	3-720-010042	SPRING AIR 6-1/2	3
29	5/16-18X1-1/2EB	EYE BOLT 5/16-18 X 1-1/2	1



m128136

Figure 1-5 Bulkhead Assembly

BULKHEAD ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128136	BULKHEAD INSTALLATION	
	3-141-010121-2	BULKHEAD INSTALLATION	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION	
1	128138	EXTENSION ALUMINUM RH	1
	128152	EXTENSION STEEL RH	1
2	128137	EXTENSION ALUMINUM LH	1
	128153	EXTENSION STEEL LH	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
4	1-557-010362-63	PIN, COTTER 1/4 X 2	4
5	1-573-010476	DECAL, BOW TIE (BLACK)	2
	1-573-010480	DECAL, BOWTIE (WHITE)	2
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
7	1-861-010032-11	WASHER, FLAT 3/8	12
8	3-141-010155	BULKHEAD WLDMT 48 X 96 (SQ. FRONT END FRAME)	1
9	3-573-010378010	DECAL, 2X10 REFLEXITE WHITE	2
10	3-573-010378012	DECAL, 2X12 REFLEXITE WHITE	2
11	6-557-010163	PIN, HITCH LEVELING LINK	2
12	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
13	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
14	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
15	1-861-010032-15	WASHER, FLAT 1/2W	6
16	3-054-010101	BAR, SIDE 48" BULKHEAD 102" EXT	2
17	3-711-010025	SPACER, 48" BULKHEAD 1" DIA	2
18	3-141-010008	CHAIN HANGER AND LOCK CHANNEL	1
19	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2

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

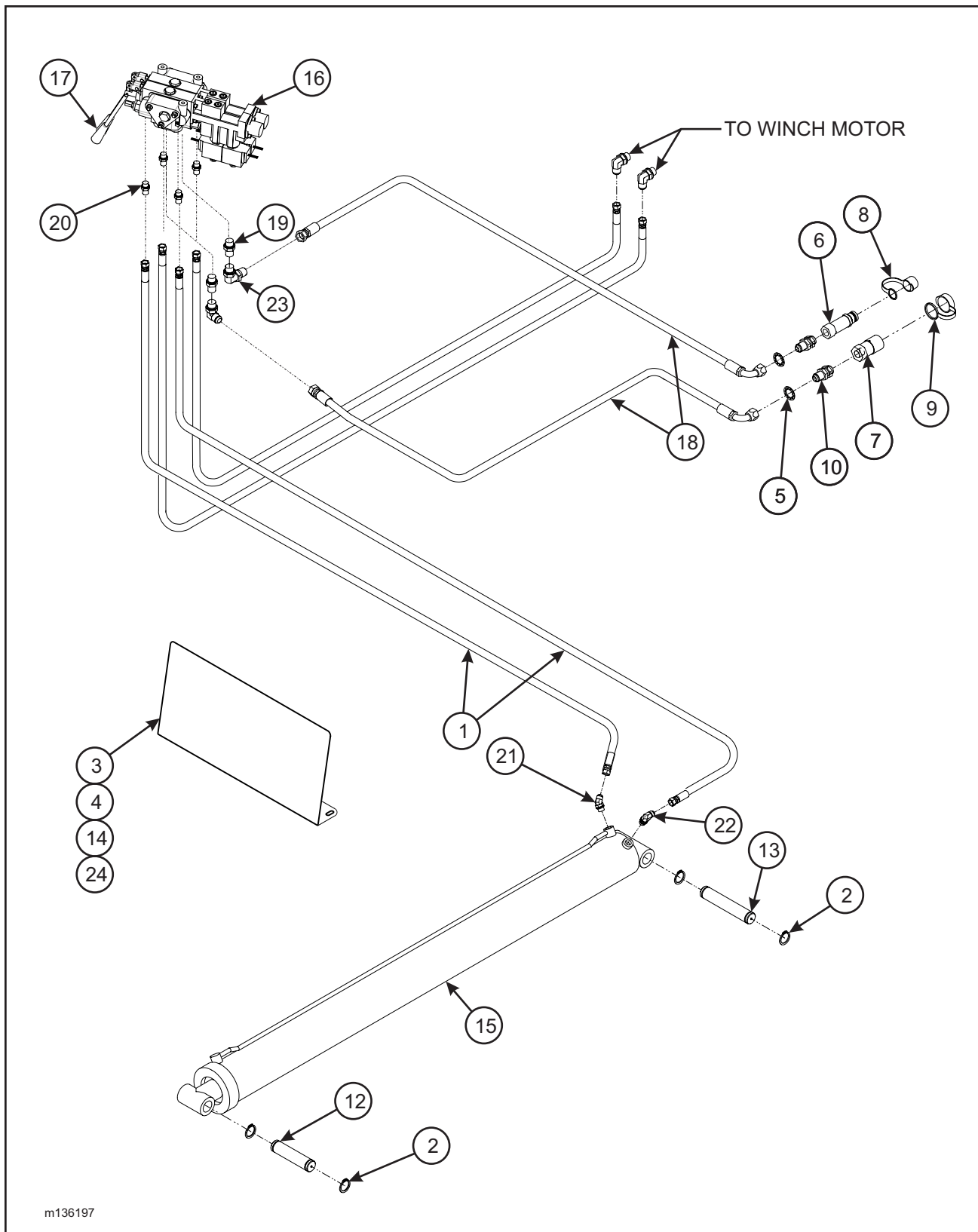


Figure 1-6 Hydraulic System Installation

HYDRAULIC SYSTEM INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	136197	HYDR INST. 930-45/12, 48/15 WET KIT	
	136198	HYDR INST. 930-45/12, 48/15 WET KIT	
	136199	HYDR INST. 930-48/12, 50/14, 51/15 WET KIT	
	136200	HYDR INST. 930-48/12, 50/14, 51/15 WET KIT	
	138123	HYDR INST. 930-45/12, 48/15 W/ ENGINE	
	138124	HYDR INST. 930-45/12, 48/15 W/ ENGINE	
	138125	HYDR INST. 930-48/12, 50/14, 51/15 W/ ENGINE	
	138126	HYDR INST. 930-48/12, 50/14, 51/15 W/ ENGINE	
1	1-397-010301220	HOSE ASSEMBLY 220 (136197,136198,138123, 138124)	2
	1-397-010301254	HOSE ASSEMBLY 254 (136199,136200,138125, 138126)	2
2	1-630-010021-01	RING, SNAP	4
3	1-861-010032-10	WASHER, FLAT 3/8N	3
4	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
5	1-861-010059-21	WASHER LOCK INTERNAL 1-1/8	2
6	*105479	COUPLER, FLAT FACE MALE	1
7	*105480	COUPLER, FLAT FACE FEMALE	1
8	*105481	COUPLER, DUST CAP MALE	1
9	*105482	COUPLER, DUST CAP FEMALE	1
10	*105483	ADAPTER, BULKHEAD	2
11	105822	DECAL, HYD COUPLER (NOT SHOWN)	2
12	107657	PIN, 1-1/2 X 6-3/8	1
13	107658	PIN, 1-1/2 X 8-1/4	1
14	108336	SCREW, SOCKET BUTTON 3/8-16 X 1	3
15	109126	CYLINDER 5 X 60 W/ PLT CHK	1
	114081	PISTON ROD ASSEMBLY	1
	109145	CHECK VALVE CARTRIDGE	1
	109144	PACKING KIT	1
16	114537	VALVE, 2 STACK (136197, 136199, 138123, 138124) (SEE PAGE 1-15)	1
	114538	VALVE, 2 STACK SOL (136198, 136200, 138125, 138126) (SEE PAGE 1-15)	1
17	135358	HANDLE, VALVE FORMED	2
18	136224	HOSE ASSEMBLY, 3/4 X 136	2
19	202702-10-12S	ADAPTER	2
20	202702-8-8S	ADAPTER	4
21	2061-8-8S	ADAPTER, 45	1
22	2062-8-8S	ADAPTER, 90	1
23	2071-12-12S	ADAPTER, 90	2
24	136223	SHIELD HYDRAULICS (138123, 138124, 138125, 138126)	1

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

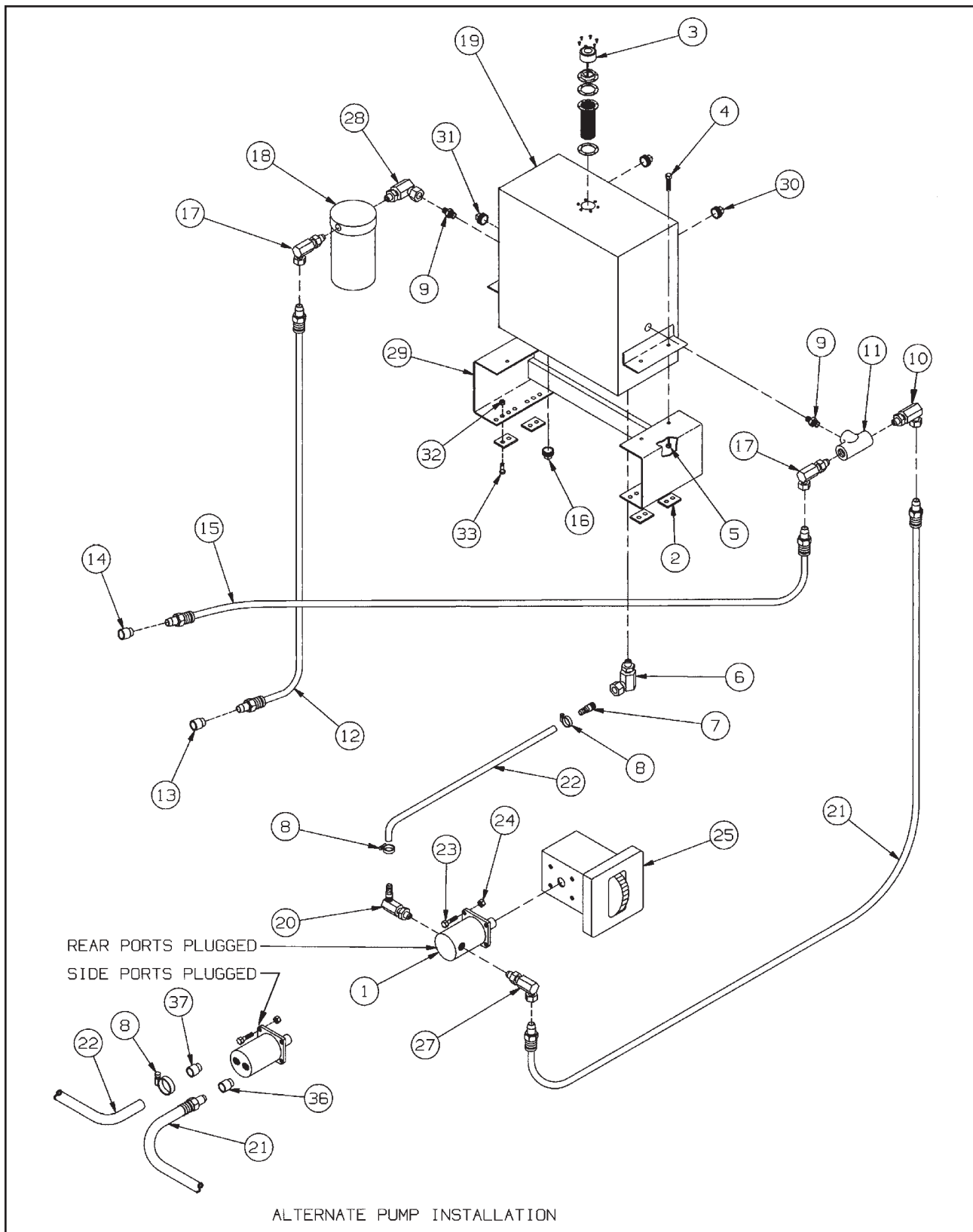
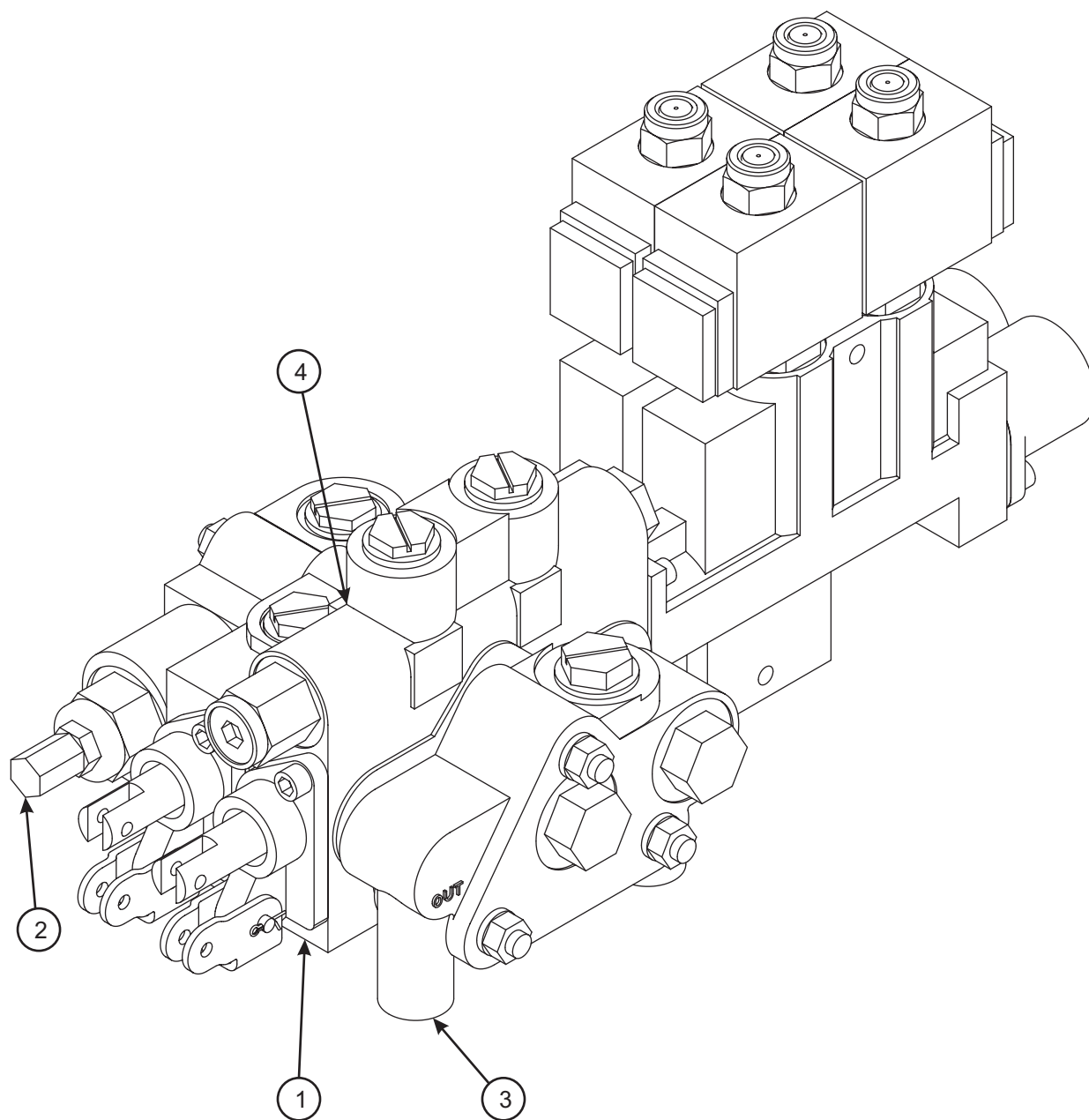


Figure 1-7 Wet Kit Assembly

WET KIT ASSEMBLY (OPTION)

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

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



m114538

Figure 1-8 Three Spool Valve

VALVE, THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY.
	114537	VALVE , 2 STACK	
	114538	VALVE, 2 STACK SOL	
1	660580005	SOLENOID WORK SECTION KIT	1
2	660580002	INLET SECTION KIT	1
3	660580003	OUTLET SECTION KIT	1
4	660580004	O-RING KIT (SEAL KIT BETWEEN SECTIONS)	1

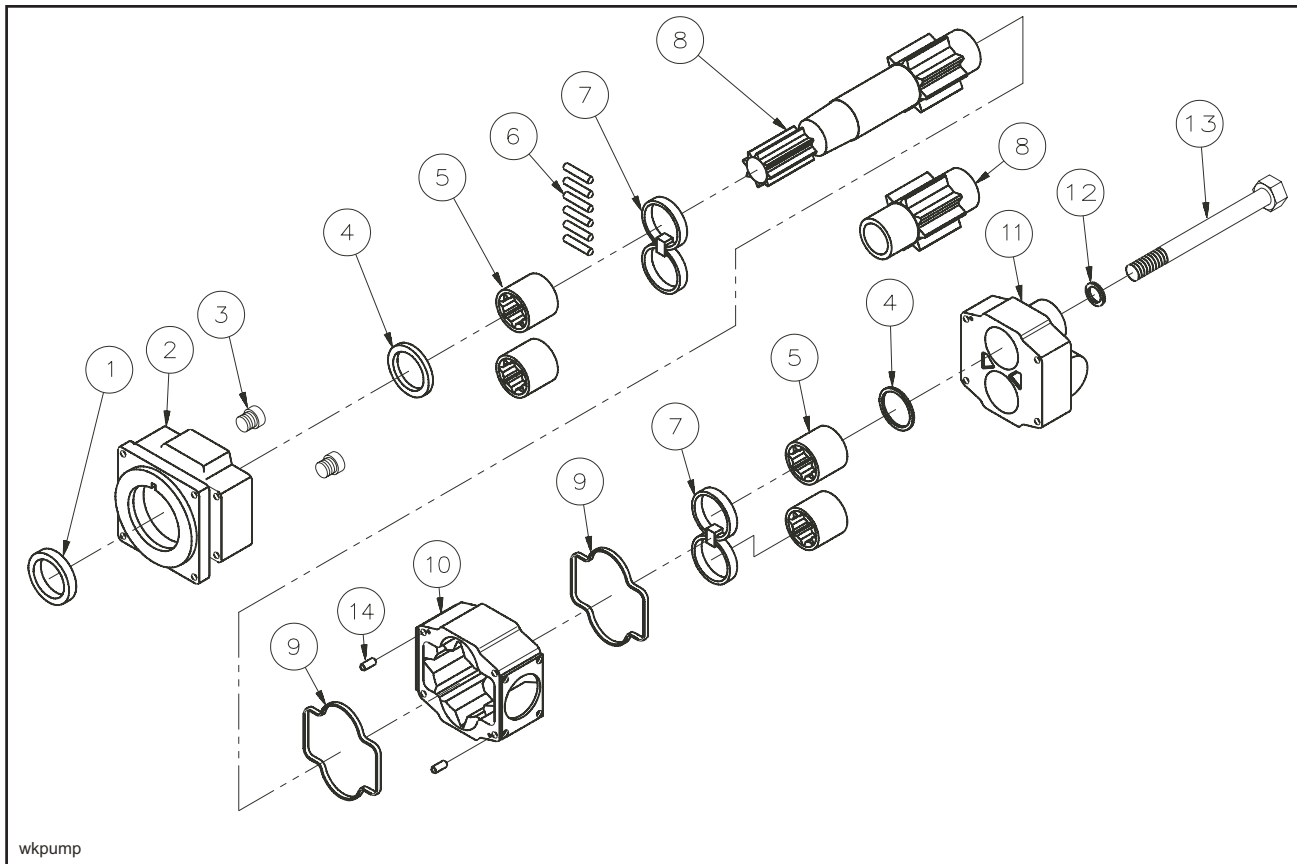


Figure 1-9 Pump, Wet Kit Hydraulic

PUMP, WET KIT HYDRAULIC

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

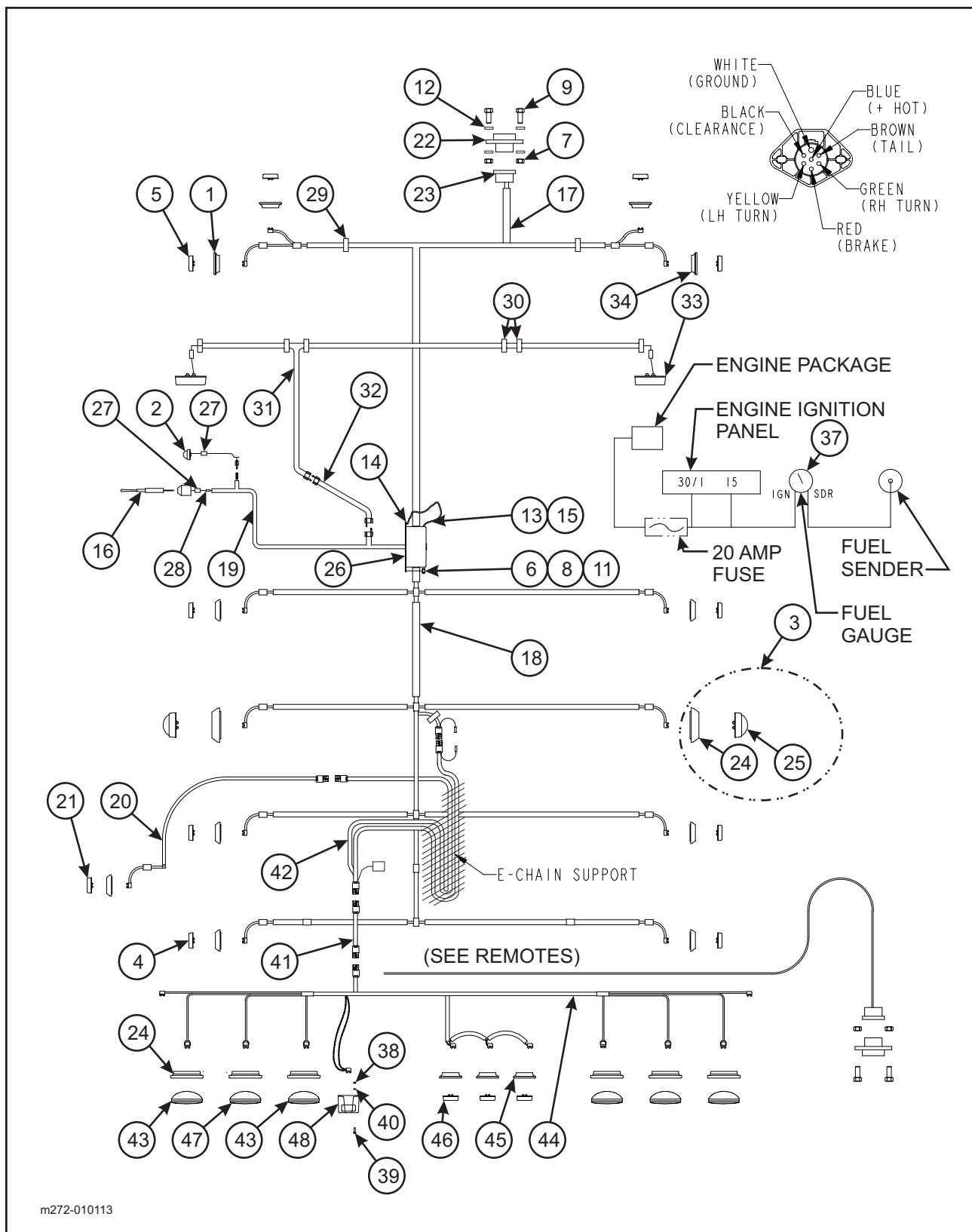


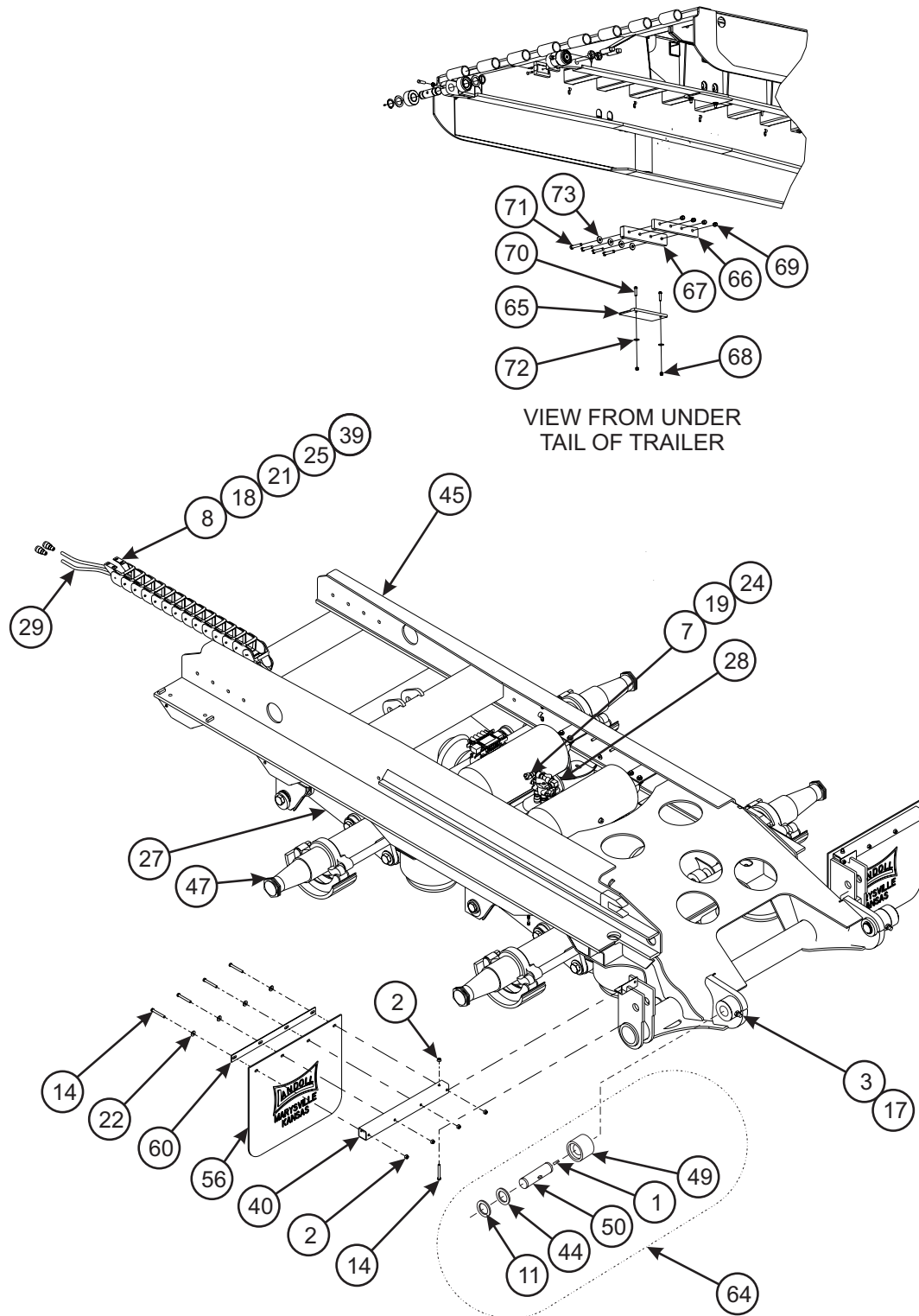
Figure 1-10 Electrical System Schematic

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	132022	ELECTRICAL INSTALLATION STD	
	B3-272-076	ELECT, WORK LIGHT INST. (OPTION)(INCL 13-20)	
	126884	ELECTRICAL INSTALLATION LED 53'	
1	10403	GROMMET MOUNT	1
2	26331	LIGHT, COURTESY	1
3	111925	LIGHT LED TURN MARKER YELLOW	2
	60015Y	LIGHT, TURN & CLEARANCE W/GROM. (INCL.24 & 25)	2
4	116139	LIGHT, RED LED 2.5 CL/MKR	2
	10205R	LAMP, RED REFLECTOR	2
5	116140	LIGHT, AMBER LED 2.5 CL/MKR	8
	10205Y	LAMP, YELLOW REFLECTOR	8
6	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
7	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
8	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2
9	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
10	1-796-010003-02	TIE WRAPS (NOT SHOWN)	20
11	1-861-010032-06	WASHER, FLAT 1/4N	2
12	1-861-010032-09	WASHER, FLAT 5/16W	2
13	1-879-010010	WIRE, 14 AWG X 12" WHITE	1
14	239-3646-5	TERMINAL RING 1/4 X 14AWG	1
15	3-203-010001	TERMINAL, RING 3/16 X 10 AWG	1
16	3-272-010017	TOGGLE SWITCH, SEALED	1
17	3-368-010120	HARNESS ASSEMBLY, FRT MAIN	1
18	3-368-010177	HARNESS ASSEMBLY, BED (45/12, 48/12, 48/15)	1
19	3-368-010253	HARNESS ASSY, CONTROL PANEL 600	1
20	3-368-010294	HARNESS, TAN ABS LAMP	1
21	3-446-010046	LIGHT ABS LAMP 2.5" DIA AMBER - ABS ONLY	1
22	59S-7	RECEPTACLE, 7-PIN	1
23	59W-2-3	BOOT, RUBBER	2
24	60700	GROMMET, LIGHT	8
25	111925	LIGHT LED TURN MARKER YELLOW	2
	60215Y	LAMP ONLY, TURN CLEARANCE	2
26	750-029	JUNCTION BOX, 7 STUD	1
27	STP147	CONNECTOR, BULLET MALE	2
28	STP164	CONNECTOR, BULLET FEMALE	1
29	1-343-010007	GROMMET	2
30	1-343-010010	GROMMET, 9/16 HOLE	6
31	3-368-010250	HARNESS, BLKHD LIGHTS - 600/317	1
32	3-368-010252	HARNESS ASSY, BLKHD LIGHT EXT. 600	1
33	64181	LAMP, RECT QUARTZ HALOGEN	2
34	10404	GROMMET MOUNT	4
35	3-156-010008	CABLE, 14-2 SO TWO CONDUCTOR (NOT SHOWN)	AR
36	3-272-010021	ELECT BUTT SPLICE 16-14 W/ SEAL (NOT SHOWN)	AR
37	239-3646-4	TERMINAL, 14 AWGX#10 RING	1
38	1-512-010007-03	NUT, HEX 10-24	2
39	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	2
40	1-861-010034-07	WASHER, SPLIT LOCK #10	2

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
41	102728	HARNESS ASSEMBLY, U/C MAN	1
42	102836	HARNESS ASSEMBLY, E-CHAIN, ABS	1
43	113373	LIGHT, RED LED OBLONG STT	4
44	114583	HARNESS, MOD BUMPER LED	1
45	107598	GROMMET, RECT C./MKRLAMP	3
46	113374	LIGHT, RED LED CLEARANCE	3
47	121377	LIGHT YELLOW LED S/T/T	2
48	15009	LICENSE LAMP	1



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

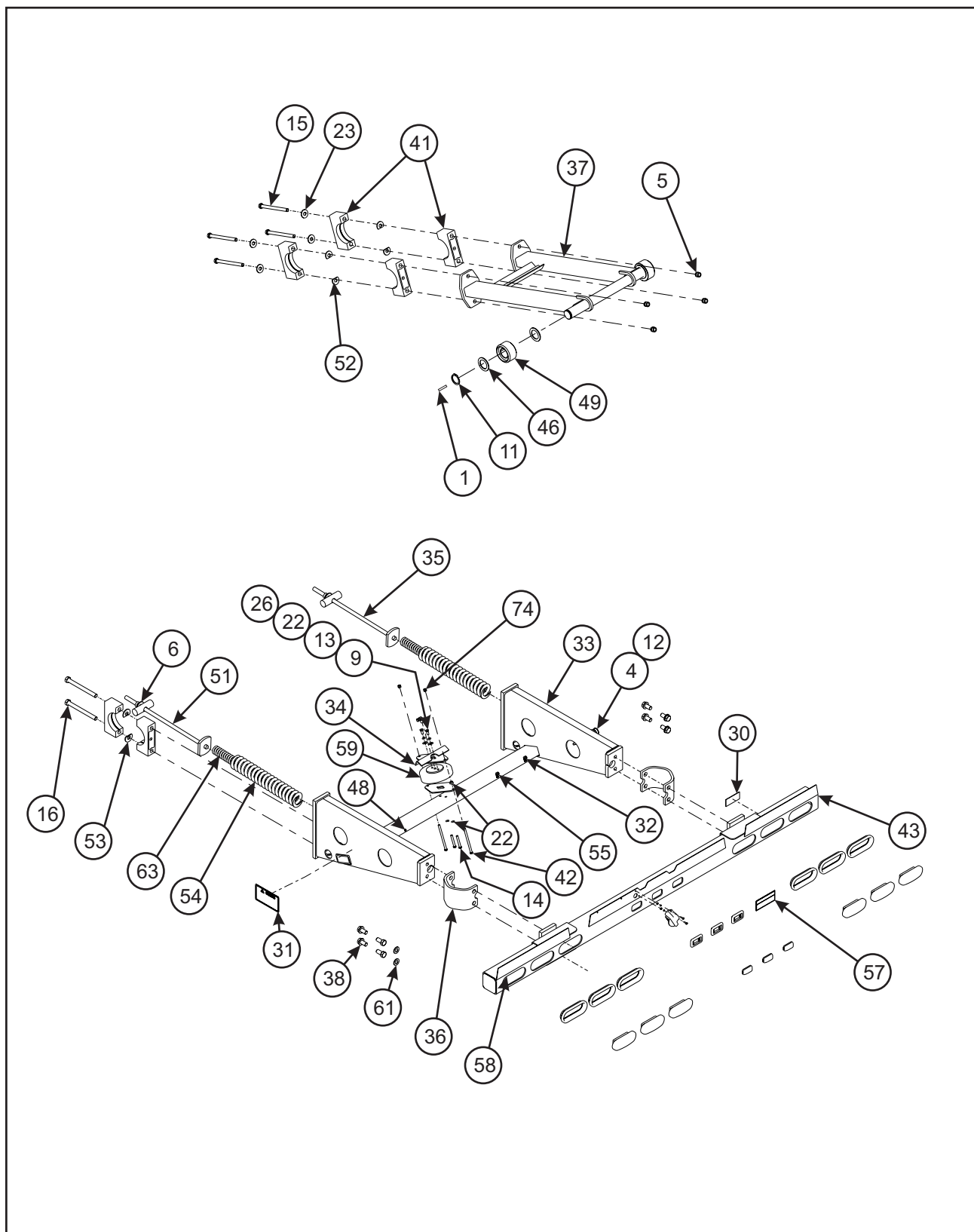


Figure 1-12 U/C Assembly, Air Ride Suspension, Tandem
(2 of 2)

UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
	138182	SUSP ASSY A/R 930-15 2512-77T	
	122679	SUSP ASSY A/R 930-12 2512-77	
	122604	SUSP ASSY A/R 930-15 2512-77	
	119999	SUSP ASSY A/R 930-14 2512-77	
	137980	SUSP ASSY A/R 930-15 2516-75	
	139623	SUSP ASSY A/R 930-15 2516-75	
1	1-298-010001-1	ZERK FITTING 1/4	4
2	1-510-010001	NUT, FLANGE LOCK 3/8-16	10
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
6	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
7	1-512-010007-03	NUT, HEX 10-24	4
8	1-512-010007-05	NUT, HEX 1/4-20 GRB	6
9	1-512-010007-07	NUT, HEX 3/8-16	4
10	1-512-010007-12	NUT, HEX 3/4-10 (NOT SHOWN)	2
11	1-630-010021-02	RING RETAINING STD. DUTY	6
12	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
13	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
14	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
15	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8 GR5	4
16	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
17	1-654-010150-05	SCREW, SET SQ HD CP PNT 5/8 X 2	2
18	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
19	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	4
20	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	19
21	1-861-010032-07	WASHER, FLAT 1/4	6
22	1-861-010032-11	WASHER, FLAT 3/8W	10
23	1-861-010032-19	WASHER, FLAT 5/8W	8
24	1-861-010034-07	WASHER, SPLIT LOCK 10	4
25	1-861-010034-09	WASHER, SPLIT LOCK 1/4	6
26	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
27	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33)	2
	102364	SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33)	2
28	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-28)	1
29	102836	HARNESS ASSEMBLY, E-CHAIN ABS	REF
30	103055	PLACARD, ENERGY BUMPER CERT	REF
31	103056	DECAL, ENERGY BUMPER WARNING	REF
32	107-0039	SCREW SELF-TAP 10 X 3/4 TYPE B	4
33	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
34	107588	PLATE WELDMENT LIFT GUIDE	1
35	107591	ROD WELDMENT SPRING TENSION BUMPER	2
36	107594	MOUNT BUMPER ENERGY PAK	2
37	107732	DOCK LIFT ARM WELDMENT	1
38	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8	8

UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
39	108724	SUPPORT E-CHAIN	1
40	108746	BRACKET, MUD FLAP	2
41	109158	BEARING CAST BUMPER PIVOT	8
42	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THREAD	2
43	109524	BUMPER WELDMENT L TAIL	1
44	109895	WASHER	2
45	113562	UNDERCARRIAGE WELDMENT	1
46	114562	BUSHING, MACHINE HARD 3 X 2 X 10 GA	4
47	115747	AXLE WELDMENT A/R D2512-SPG 77	2
	115749	AXLE WELDMENT A/R D2516-SPG 75	2
	136258	AXLE WELDMENT A/R 2512-SPG 77 (FOR PARTS BREAKDOWN, SEE PAGE 1-30)	2
48	125894	CLAMP CABLE 5/8	2
49	135613	ROLLER 4" ASSEMBLY CONNEX	2
50	135615	PIN ROLLERS REAR	2
51	2-557-010045	FRONT PIN SPRING CLAMP DRILL (PRIOR 01/01/2007)	2
	142457	PIN, SPRING BUMPER (AFTER 01/01/2007)	2
52	2-684-010001	SHIM ROCK SHAFT BEARING	4
53	2-684-010045	SHIM ROCKSHAFT BEARING	4
54	2-720-010008	SPRING	2
55	239-9076-2	CLAMP 5/16	2
56	3-485-010001	FLAP, MUD	2
57	3-573-010031	DECAL, TRAILER BUMPER	REF
58	3-573-010377	DECAL, 2" REFLEXITE TAPE, RD/WHT	REF
59	3-720-010042	SPRING AIR 6-1/2	1
60	3-762-010017	CLAMP, MUD FLAP	2
61	622-3511-008	WASHER, FLAT 3/4	10
62	1-654-010061-09	SCREW, HEX HEAD CAP 3/4-10 X 3 GR5 (NOT SHOWN)	8
63	8-720-010013	SPRING, COMPRESSION REEL (14' & 15' TAIL TRAILERS)	2
64	125838	ROLLER & PIN KIT (INCL ITEM 1,11,44,49,50)	1
65	107621	GLIDE, U/C	REF
66	107622	BLOCK MOUNTING NYLATRON HOLDOWN	REF
67	109138	NYLATRON HOLD-DOWN BLOCK	REF
68	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	REF
69	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	REF
70	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)	REF
71	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	REF
72	1-861-010032-15	WASHER, FLAT 1/2	REF
73	1-861-010032-19	WASHER, FLAT 5/8	REF
74	1-512-010005-05	NUT, HEX LOCK 3/8-16	2

REFER TO

UNDERCARRIAGE - TANDEM AXLE

DRAWINGS ON PAGES 1-20 AND 1-21

FOR SIMILAR INFORMATION

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

REFER TO
UNDERCARRIAGE - TANDEM AXLE
DRAWINGS ON PAGES 1-20 AND 1-21
FOR SIMILAR INFORMATION

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

UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	123498	SUSP ASSY A/R 950-15 2512-77	
	133440	SUSP ASSY A/R 950-15 2216-75	
	138210	SUSP ASSY A/R 950-15 2212-77	
1	1-298-010001-1	ZERK FITTING 1/4	1
2	1-510-010001	NUT, FLANGE LOCK 3/8-16	10
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
6	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
7	1-512-010007-03	NUT, HEX 10-24	6
8	1-512-010007-05	NUT, HEX 1/4-20 GRB	6
9	1-630-010021-02	RING RETAINING STD. DUTY	6
10	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	2
11	1-654-010051-11	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5	2
12	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	10
13	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8 GR5	4
14	1-654-010061-21	SCREW, HEX HEAD CAP 3/4-10 X 8 GR5	4
15	1-654-010150-05	SCREW, SET SQ HD CP PNT 5/8 X 2	2
16	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
17	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	4
18	1-796-010004-02	TIE STRAP, PLASTIC	AR
19	1-861-010032-07	WASHER, FLAT 1/4	6
20	1-861-010032-11	WASHER, FLAT 3/8W	10
21	1-861-010032-19	WASHER, FLAT 5/8W	8
22	1-861-010032-21	WASHER, FLAT 3/4W	2
23	1-861-010034-07	WASHER, SPLIT LOCK 10	6
24	1-861-010034-09	WASHER, SPLIT LOCK 1/4	6
25	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
26	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33)	2
	102364	SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33)	2
27	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-28)	1
28	102836	CABLE HARNESS W/ ABS	1
29	103055	PLACARD, ENERGY BUMPER CERT	1
30	103056	DECAL, ENERGY BUMPER WARNING	1
31	107-0039	SCREW SELF-TAP 10 X 3/4 TYPE B	4
32	107470	NUT, FLANGE HEAD SPIRALOCK 3/8-16	2
33	107582	BUMPER ARM WELDMENT 12' TAIL	1
	110649	BUMPER ARM WELDMENT 14' TAIL	1
	109120	BUMPER ARM WELDMENT 15' TAIL	1
34	107588	PLATE WELDMENT LIFT GUIDE	1
35	107591	ROD WELDMENT SPRING TENSION BUMPER	2
36	107594	MOUNT BUMPER ENERGY PAK	2
37	107732	DOCK LIFT ARM WELDMENT	1
38	108705	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8	8
39	108724	SUPPORT E-CHAIN	1
40	108746	BRACKET, MUD FLAP	2
41	109158	BEARING CAST BUMPER PIVOT	8

UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

ITEM	PART NO.	DESCRIPTION	QTY.
42	109177	CONTROL KIT AIR SUSP LWR (SEE PAGE 1-29)	1
43	109207	SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THR	2
44	109524	BUMPER WELDMENT L TAIL	1
45	109895	WASHER	2
46	114562	BUSHING, MACHINE HARD 3 X 2 X 10 GA	4
47	115747	AXLE WELDMENT A/R D2212-SPG 77	2
	115748	AXLE WELDMENT A/R D2212-SER 77	1
	115749	AXLE WELDMENT A/R D2216-SPR 75	2
	115750	AXLE WELDMENT A/R D2216-SER 75 (FOR PARTS BREAKDOWN, SEE PAGE 1-30)	1
48	117844	UNDERCARRIAGE WELDMENT 950	1
49	125894	CLAMP CABLE 5/8	2
50	135613	ROLLER 4" ASSEMBLY CONNEX	4
51	2-557-010045	FRONT PIN SPRING CLAMP DRILL (PRIOR 01/01/2007)	2
	142457	PIN, SPRING BUMPER (AFTER 01/01/2007)	2
52	2-684-010001	SHIM ROCK SHAFT BEARING	4
53	2-684-010045	SHIM ROCKSHAFT BEARING	4
54	2-720-010008	SPRING	2
55	239-9076-2	CLAMP 5/16	2
56	3-485-010001	FLAP, MUD	2
57	3-573-010031	DECAL, TRAILER BUMPER	1
58	3-573-010377	DECAL, 2" REFLEXITE TAPE, RD/WHT	AR
59	3-720-010042	SPRING AIR 6-1/2	1
60	3-762-010017	CLAMP, MUD FLAP	2
61	622-3511-008	WASHER, FLAT 3/4	10
62	8-720-010013	SPRING, COMPRESSION REEL (14' & 15' TAIL TRAILERS)	2
63	125838	ROLLER AND PIN KIT (INCL ITEMS	
65	107621	GLIDE, U/C	REF
66	107622	BLOCK MOUNTING NYLATRON HOLDOWN	REF
67	109138	NYLATRON HOLD-DOWN BLOCK	REF
68	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	REF
69	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	REF
70	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)	REF
71	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	REF
72	1-861-010032-15	WASHER, FLAT 1/2	REF
73	1-861-010032-19	WASHER, FLAT 5/8	REF

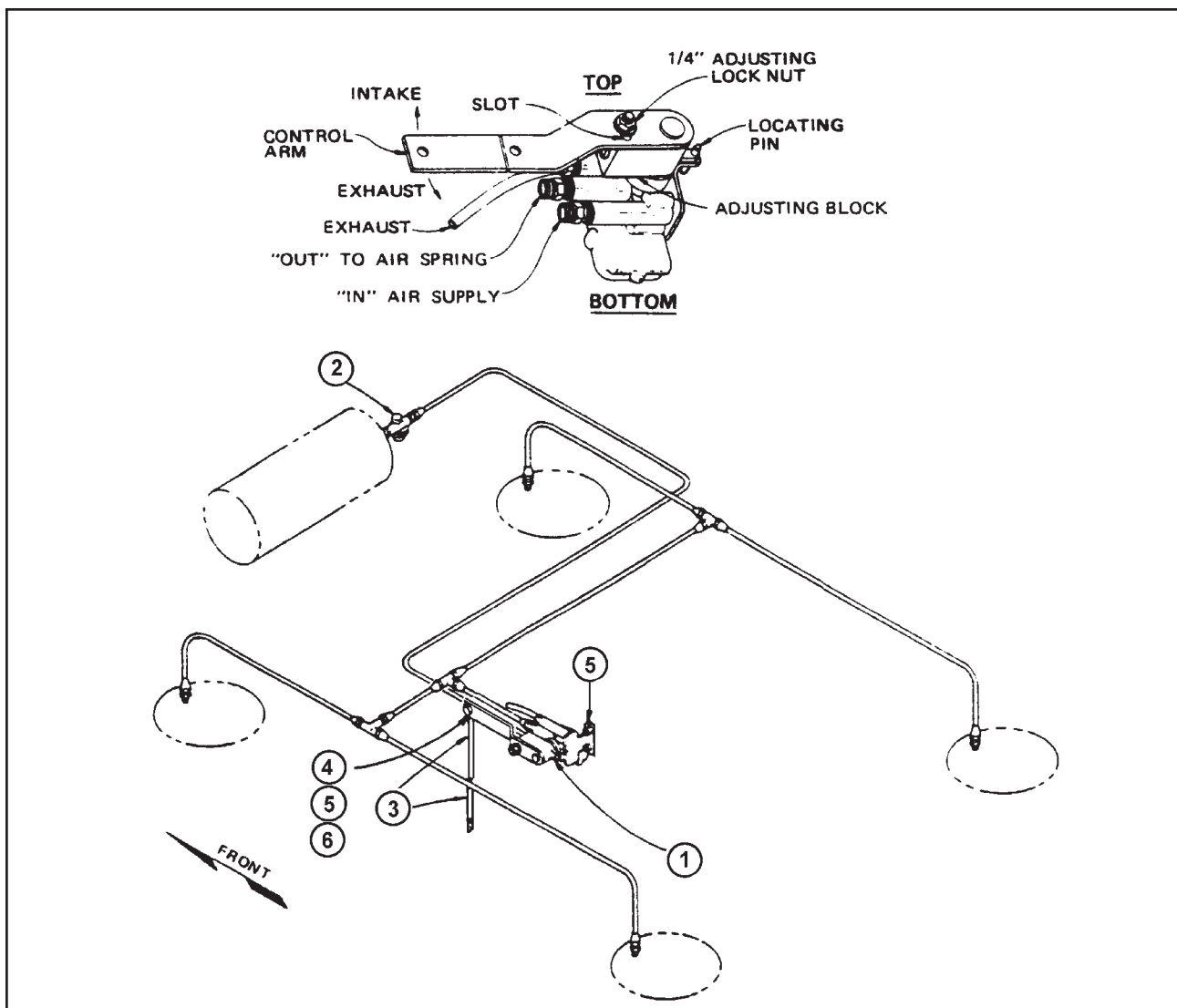


Figure 1-15 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	905 54 107	AIR PRESSURE PROTECTION VALVE & FILTER	1
3	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 (NOT SHOWN)	1

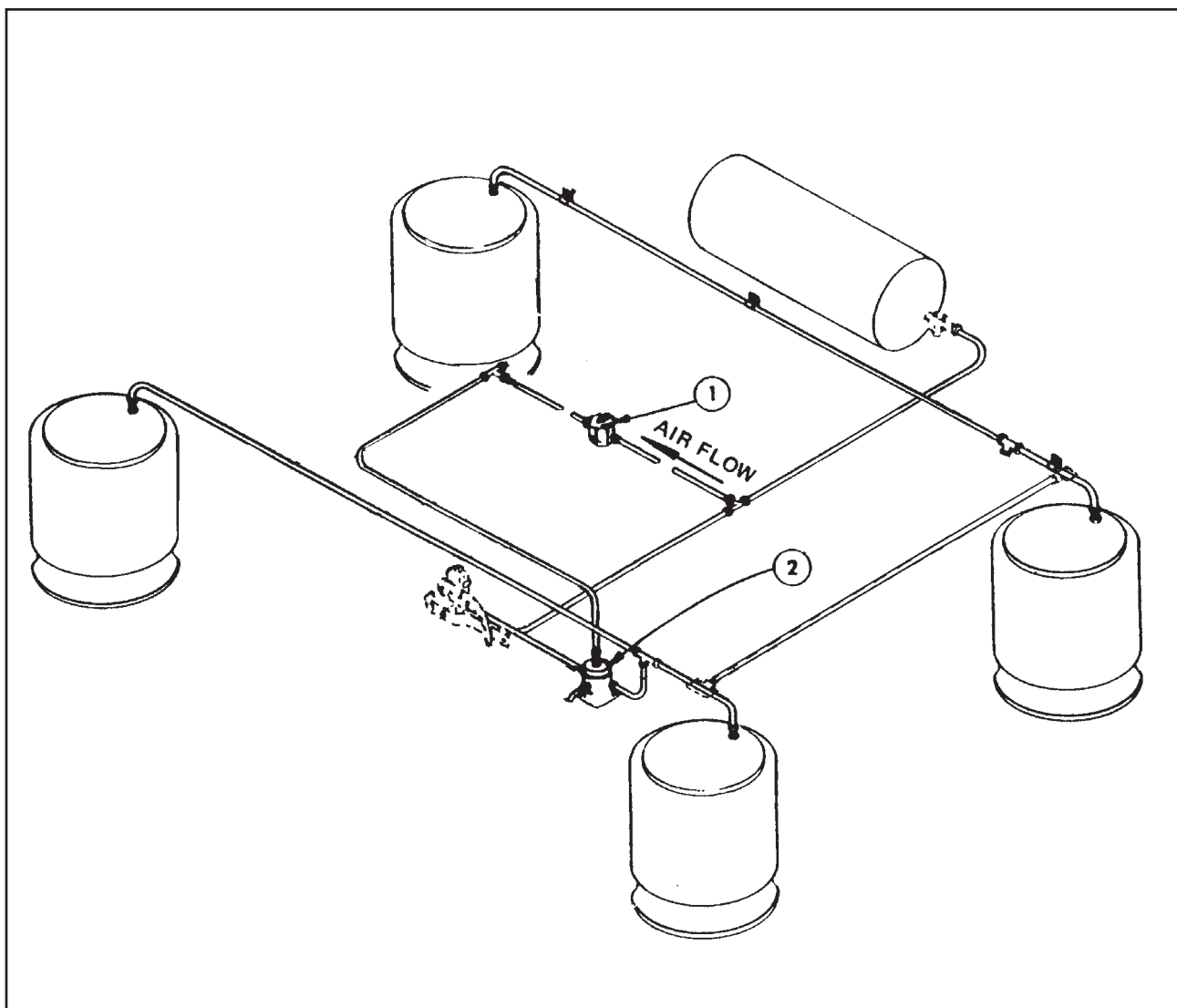
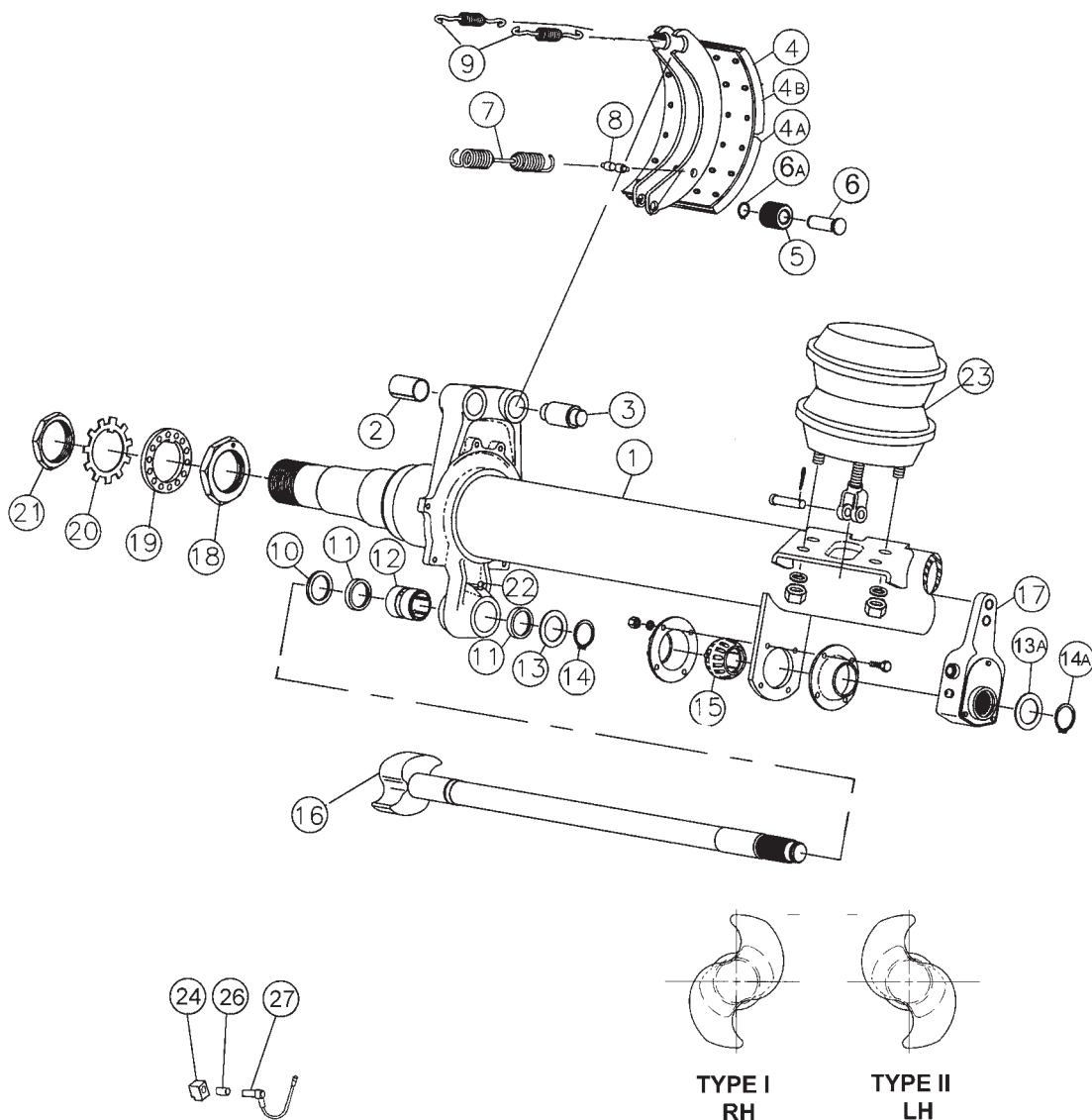


Figure 1-16 Air Control Kit

AIR CONTROL KIT

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



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VIEWED FROM HEAD END

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

Figure 1-17 Axle and Brake Assembly

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY
	115704	AXLE 12.25X7.5 SPG BRK 25K 77 TRK	
	115709	AXLE 12.25X7.5 SER BRK 25K 77 TRK	
	115715	AXLE 16.5X7 SPG BRK 25K 75 TRK	
	115720	AXLE 16.5X7 SER BRK 25K 75 TRK	
	136203	AXLE 12.25X7.5 SPG BRK 25K 77 TRK	
	138198	AXLE 12.25X7.5SER BRK 25K TIS	
	138955	AXLE 16.5X7 SPG BRK 25K TIS	
1*	D-2H12	BEAM OPTIONS (12.25 X 7.5 BRAKE)	1
	D-2H16	BEAM OPTIONS (16.5 X 7 BRAKE)	

AXLE AND BRAKE ITEMS (DEXTER)

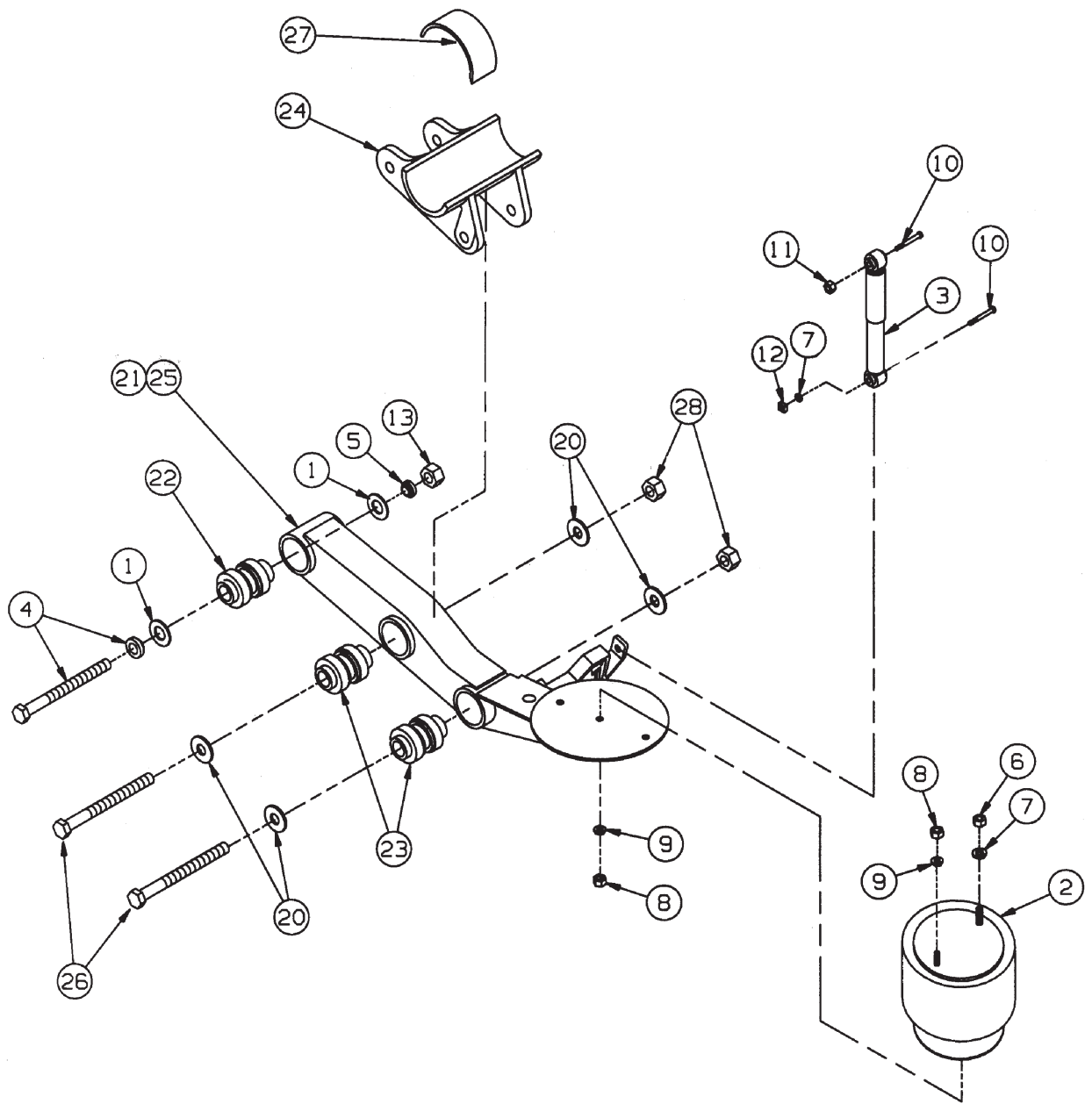
ITEM	PART NO.	DESCRIPTION	QTY
	**K71-460-00	BRAKE SHOE HDWR KIT(12.25X7.5 BRAKE)	
	**K71-136-00	BRAKE SHOE HDWR KIT(16.5 X 7 BRAKE) (KITS INCL. ITEMS 2, 3, 5, 6, 7, 8, & 9)	
2**	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	056-017-00	PIN, ANCHOR	4
4	040-320-01	BRAKE SHOE AND LINING (12.25 X 7.5 BRAKE)	4
	K71-133-00	BRAKE BLOCK KIT -LINING & RIVETS(12.25 X 7.5 BRAKE)	4
	040-180-00	BRAKE SHOE AND LINING (16.5 X 7 BRAKE)	4
	K71-138-00	BRAKE BLOCK KIT -LINING AND RIVETS (16.5 X 7 BRAKE)	4
5**	014-057-00	ROLLER, KNURLED (12.25 X 7.5 BRAKE)	4
	014-065-00	ROLLER, KNURLED (16.5 X 7 BRAKE)	4
6**	056-010-00	RETAINER - ROLLER PIN (12.25 X 7.5 BRAKE)	8
	071-122-00	RETAINER, ROLLER (16.5 X 7 BRAKE)	4
6A**	069-018-00	RETAINER RING (12.25 X 7.5 BRAKE ONLY)	8
7**	046-092-00	SPRING, SHOE RETURN (12.25 X 7.5 BRAKE)	2
	046-096-00	SPRING, SHOE (16.5 X 7 BRAKE)	2
8**	056-018-00	RETAINER, RETRACTOR SPRING	4
9**	046-097-00	SPRING, SHOE KEEPER	4
	***K71-101-00	CAMSHAFT REPAIR KIT (12.25 X 7.5) (ITEMS 10-15, & 22)	
	***K71-135-00	CAMSHAFT REPAIR KIT (16.5 X 7) (ITEMS 10-15, & 22)	
10***	005-074-00	D" WASHER (12.25 X 7.5 BRAKE)	2
	005-096-00	WASHER CAMSHAFT (16.5 X 7 BRAKE)	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2
13***	005-075-00	WASHER CAMSHAFT(12.25 X 7.5 BRAKE)	4
	005-097-00	WASHER CAMSHAFT(16.5 X 7 BRAKE)	4
13A	005-134-00	WASHER CAMSHAFT SLACK ADJ END	2
14***	069-020-00	RETAINER CAMSHAFT	2
	069-078-00	RETAINER CAMSHAFT SLACK ADJ END	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	136991	CAMSHAFT, 23-3/8" LH(12.25X7.5 BRK, 76/77 TRK)	1
	136992	CAMSHAFT, 23-3/8" RH(12.25X7.5 BRK, 76/77 TRK)	1
	137461	CAMSHAFT, 25" LH (16.5 X 7 BRAKE, 75 TRK)	1
	137485	CAMSHAFT, 25"RH (16.5 X 7 BRAKE, 75 TRK)	1
17	127777	SLACK ADJUSTER, AUTOMATIC (12.25 X 7.5 BRAKE)	2
	127778	SLACK ADJUSTER, AUTOMATIC (16.5 X 7 BRAKE)	2
	127779	SLACK ADJUSTER, AUTOMATIC	1
18	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	NUT, OUTER SPINDLE	2
22***	061-006-00	FITTING, GREASE 45°	2
23	034-058-07	CHAMBER, BRAKE (12.25 X 7.5 SPRING BRAKE)	2
	034-057-07	CHAMBER, BRAKE (12.25 X 7.5 SERVICE BRAKE)	
	034-058-01	CHAMBER, BRAKE (16.5 X 7 SPRING BRAKE)	4
	034-057-01	CHAMBER, BRAKE (16.5 X 7 SERVICE BRAKE)	2
24	024-100-00	SENSOR BLOCK	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 SERIAL NUMBER ON AXLE BEAM, MODEL, SIZE, TRACK LENGTH, BRAKE SIZE, AND CAMSHAFT LENGTH.

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

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

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGES 1-42 TO 1-43.



762MC102361

Figure 1-18 Suspension Hanger RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102364	SUSPENSION, ADJ. RLU-228-5.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228(INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	905-57-129	AIR SPRING ASSEMBLY (RLU-228-3.5)	2
	111016	AIR SPRING ASSEMBLY (RLU-228-5.5)	
3	900 45 040	SHOCK (RLU-228-3.5)	2
	900 44 642	SHOCK (RLU-228-5.5)	2
4	93908009	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	900 08 186	ALIGN BLOCK	2
6	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	LOCK WASHER, 3/4"	4
8	1512-010007-09	HEX NUT, 1/2-13	4
9	1-816-010034-13	LOCK WASHER, 1/2"	4
10	930 03 597	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934 00 492	LOCK NUT, 3/4" - 10	2
12	934-00-367	3/4-10 SQUARE NUT	2
13	934-00-506	LOCK NUT 1-1/8-7	2
14	111018	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	94100787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	94100685	LITERATURE SPEC (NOT SHOWN)	1
17	94100648	LITERATURE FORM 864 (NOT SHOWN)	1
18	94100590	LITERATURE LABEL (NOT SHOWN)	1
19	94100790	LITERATURE LABEL (NOT SHOWN)	1
	11005053	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	900 08 139	RUBBER BUSHING (FRONT PIVOT)	2
23	111011	RUBBER BUSHING (AXLE CONNECTION)	4
24	111012	AXLE ADAPTER ASSEMBLY	2
25	111014	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	900-25-288	SAFETY STRAP	2
28	934-00-506	LOCK NUT 1-1/8-7	4

NOTE: QUANTITIES LISTED ARE PER AXLE.

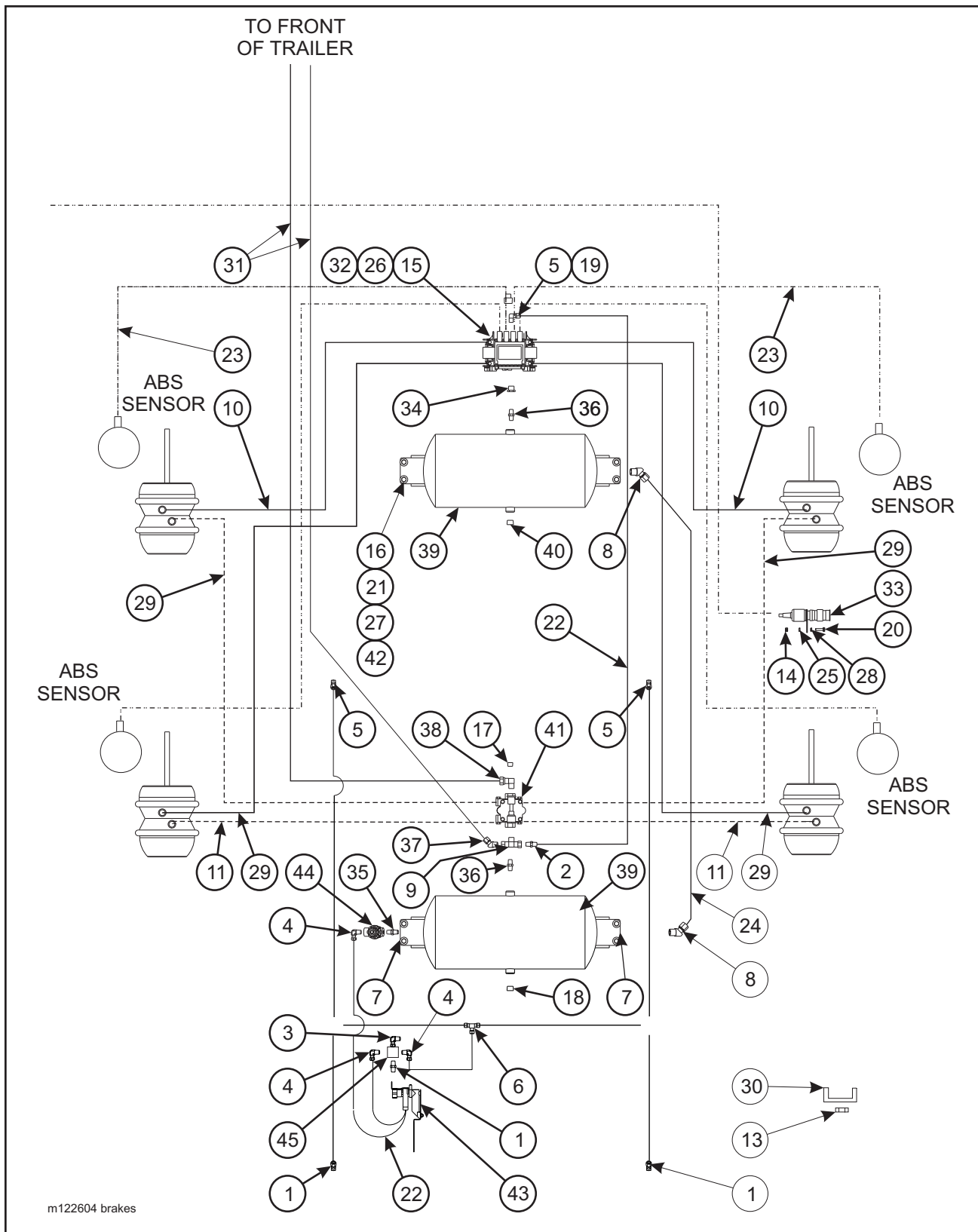


Figure 1-19 Spring Air Brake System w/ ABS, Tandem Axle

AIR BRAKE SYSTEM W/ ABS, TANDEM

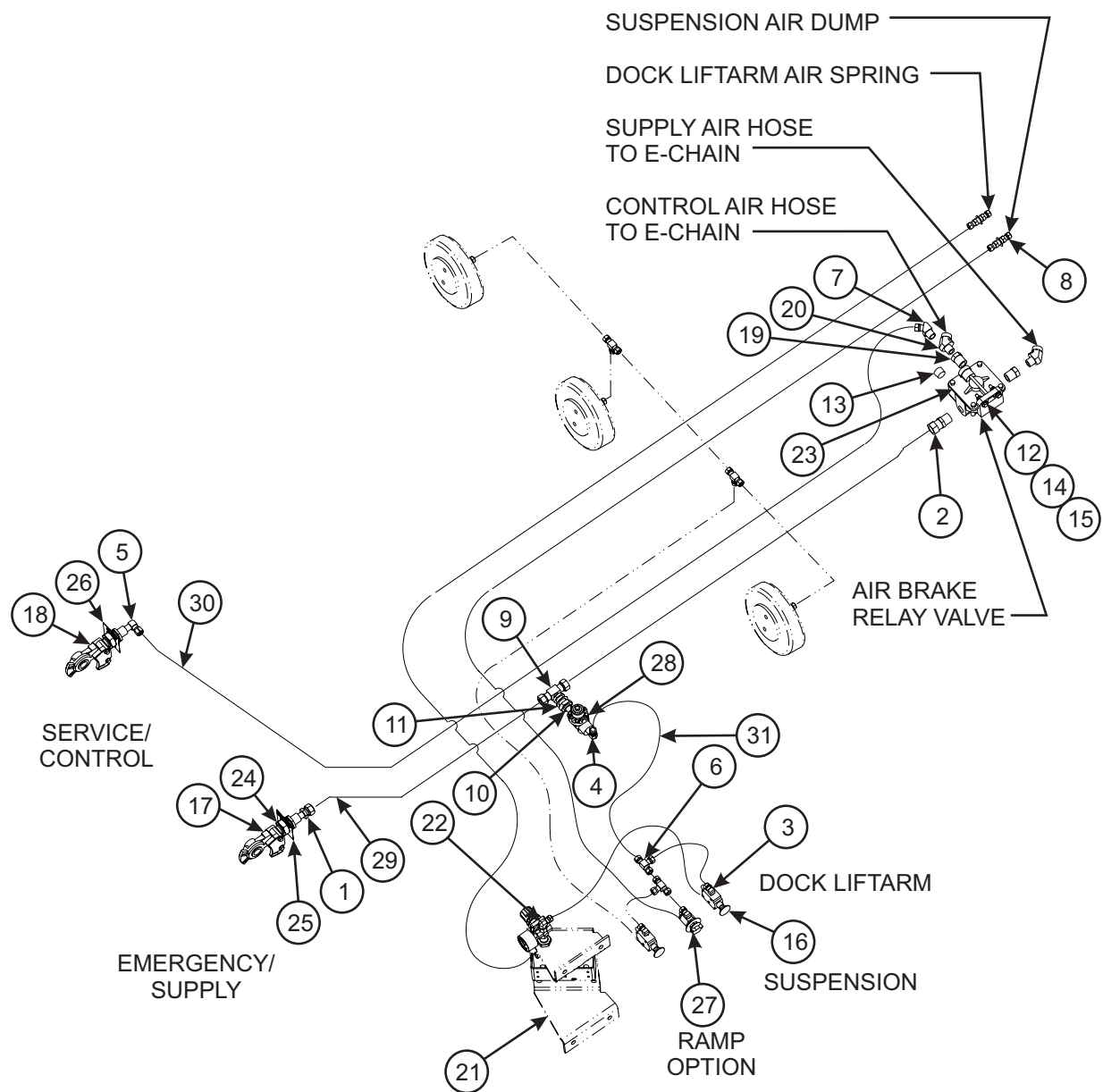
ITEM	PART NO.	DESCRIPTION	QTY.
1	1-297-010007-11	FITTING AIR	3
2	1-297-010007-12	FITTING AIR	1
3	1-297-010008-05	FITTING AIR 90	1
4	1-297-010008-07	FITTING AIR 90	4
5	1-297-010008-18	FITTING AIR 90	3
6	1-297-010010-01	FITTING AIR UNION TEE	1
7	1-297-010010-04	FITTING AIR UNION TEE	2
8	1-297-010013-16	FITTING AIR 45	3
9	1-297-010017-03	FITTING AIR M/BR TEE	1
10	1-384-010038024	HOSE AIR 3/8 X 24	2
11	1-384-010038038	HOSE AIR 3/8 X 38	2
12	1-394-010001	HOSE ABRASION SLEEVE X 2 (NOT SHOWN)	2
13	1-510-010001	NUT FLANGE LOCK 3/8-16	3
14	1-512-010005-01	NUT HEX LOCK 1/4-20	2
15	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
16	1-512-010005-05	NUT, HEX LOCK 3/8-16	14
17	1-560-010002-03	PIPE PLUG 3/8	3
18	1-560-010002-04	PIPE PLUG 1/2	3
19	1-560-010002-05	PIPE PLUG 3/4-14	1
20	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	2
21	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
22	1-833-010001	TUBING NYLON 1/4	AR
23	1-833-010002	TUBING NYLON 3/8	AR
24	1-833-010003	TUBING NYLON 1/2	AR
25	1-861-010032-07	WASHER FLAT 1/4-20	2
26	1-861-010032-09	WASHER FLAT 5/16W	2
27	1-861-010032-11	WASHER FLAT 3/8W	10
28	1-861-010034-09	WASHER SPLIT LOCK 1/4	2
29	101003	HOSE AIR 3/8 X 48	4
30	103817	CLAMP HOSE	5
31	109209	HOSE, AIR 3/8 X 244	2
32	114584	ABS KIT 4S/2M (SEE PAGE 1-41)	1
33	114590	POWER/DIAGNOSTIC CABLE	REF
34	118-2659-9	BUSHING 1/2 X 3/4	1
35	2083-8-4S	NIPPLE HEX 1/2 - 1/4	1
36	2083-8-8S	NIPPLE 1/2 - 1/2	2
37	2088-6-6S	ADAPTER 45	1
38	2089-6-6S	ADAPTER 90	1
39	3-780-010002	TANK AIR	2
40	56D4	AIR TANK DRAIN COCK	2
41	758-181	VALVE RELAY EMERGENCY	1
42	805-2	STEP BUSHING	16
43	900 54 007	HEIGHT CONTROL VALVE	1
44	905 54 107	AIR PRESSURE PROTECTION VALVE & FILTER	1
45	900 54 079	PILOT VALVE	REF

REFER TO AIR BRAKE SYSTEM W/ABS
- TANDEM AXLE DRAWINGS
ON PAGE 1-34
FOR SIMILAR INFORMATION

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

AIR BRAKE SYSTEM W/ ABS, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-297-010007-11	FITTING AIR	3
2	1-297-010007-12	FITTING AIR	1
3	1-297-010008-05	FITTING AIR 90	1
4	1-297-010008-07	FITTING AIR 90	4
5	1-297-010008-18	FITTING AIR 90	5
6	1-297-010010-01	FITTING AIR UNION TEE	1
7	1-297-010010-03	FITTING AIR UNION TEE	2
8	1-297-010010-04	FITTING AIR UNION TEE	2
9	1-297-010013-16	FITTING AIR	2
10	1-297-010015-11	FITTING AIR BRANCH TEE 1/2-1/2	1
11	1-297-010017-03	FITTING AIR M/BR	1
12	1-384-010038024	HOSE AIR 3/8 X 24	2
13	1-384-010038038	HOSE AIR 3/8 X 38	2
14	1-384-010038084	HOSE AIR 3/8 X 84	2
15	1-510-010001	NUT FLANGE LOCK 3/8-16	3
16	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
17	1-512-010005-05	NUT, HEX LOCK 3/8-16	18
18	1-512-010007-05	NUT, HEX 1/4-20	4
19	1-560-010002-03	PIPE PLUG 3/8	1
20	1-560-010002-04	PIPE PLUG 1/2	6
21	1-560-010002-05	PIPE PLUG 3/4-14	1
22	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	3
23	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	12
24	1-833-010001	TUBING NYLON 1/4	AR
25	1-833-010002	TUBING NYLON 3/8	AR
26	1-833-010003	TUBING NYLON 1/2	AR
27	114590	POWER/DIAGNOSTIC CABLE	REF
28	1-861-010032-07	WASHER FLAT 1/4-20	4
29	1-861-010032-09	WASHER FLAT 5/16W	2
30	1-861-010032-11	WASHER FLAT 3/8W	18
31	1-861-010034-09	WASHER SPLIT LOCK 1/4	4
32	101003	HOSE AIR 3/8 X 48	4
33	103817	CLAMP HOSE	5
34	112244	HOSE, AIR 3/8 X 268	1
35	112245	HOSE, AIR 3/8 X 276	1
36	114586	ABS KIT 4S/2M TRI/SPREAD (SEE PAGE 1-41)	1
37	117304	TUBING, NYLON 5/8	AR
38	118-2659-9	BUSHING 1/2 X 3/4	2
39	2083-8-4S	NIPPLE HEX 1/2 - 1/4	1
40	2083-8-8S	NIPPLE 1/2 - 1/2	2
41	2088-6-6S	ADAPTER 45	1
42	2089-6-6S	ADAPTER 90	1
43	3-780-010002	TANK AIR	3
44	56D4	AIR TANK DRAIN COCK	3
45	758-181	VALVE RELAY EMERGENCY	1
46	805-2	STEP BUSHING	24
47	900 54 007	HEIGHT CONTROL VALVE	1
48	905 54 107	AIR PRESSURE PROTECTION VALVE & FILTER	1
49	900 54 079	PILOT VALVE	REF

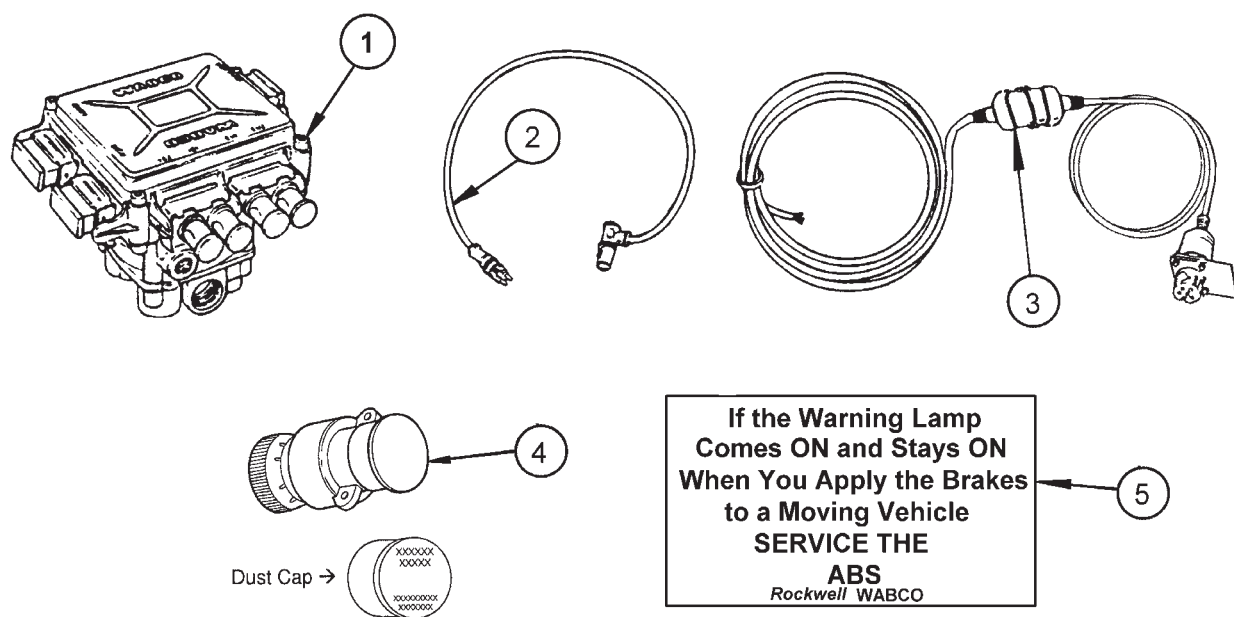


m108719

Figure 1-21 Air System ABS

AIR SYSTEM, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	108719	AIR SYSTEM	
1	1-297-010007-14	FITTING AIR	1
2	1-297-010007-16	FITTING AIR	1
3	1-297-010008-05	FITTING AIR 90	4
4	1-297-010008-07	FITTING AIR 90	3
5	1-297-010008-18	FITTING AIR 90	1
6	1-297-010010-01	FITTING, AIR UNION TEE 1/4	1
7	1-297-010013-12	FITTING AIR 45	1
8	1-297-010014-02	FITTING AIR BULKHEAD UNION 1/4	2
9	1-297-010015-09	FITTING AIR, BR TEE	1
10	1-297-010020-02	FITTING BR PIPE	2
11	1-297-010022-02	FITTING, AIR ANCHOR COUPLING	2
12	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2
13	1-560-010002-04	PLUG, PIPE	1
14	1-654-010027-7	SCREW HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2
15	1-861-010032-06	WASHER, FLAT 1/4	2
16	107887	VALVE AIR PUSH BUTTON	1
17	108801	GLADHAND RED AIR	1
18	108802	GLADHAND BLUE AIR	1
19	2081-8-6S	REDUCER	2
20	2088-6-6S	ADAPTER 45	2
21	3-482-010563	MOUNT WELDMENT, VALVE HYD/PNEUMATIC	REF
22	3-626-010004	REGULATOR AIR PRESSURE	1
23	3-843-010038	VALVE, AIR RELAY FAST AIR BAL	1
24	55B61	FRAME UNION	2
25	55B61-6	TAG EMERGENCY LINE	1
26	55B61-7	TAG SERVICE LINE	1
27	900-54-088	VALVE, MANUALLY OPERATED	1
28	905-54-107	BRAKE PROTECTION VALVE	1
29	1-833-010003	TUBING NYLON 1/2 OD	AR
30	1-833-010002	TUBING NYLON 3/8 OD	AR
31	1-833-010001	TUBING NYLON 1/4 OD	AR
32	3-120-010445	BRACKET PRESSURE REGULATOR	1

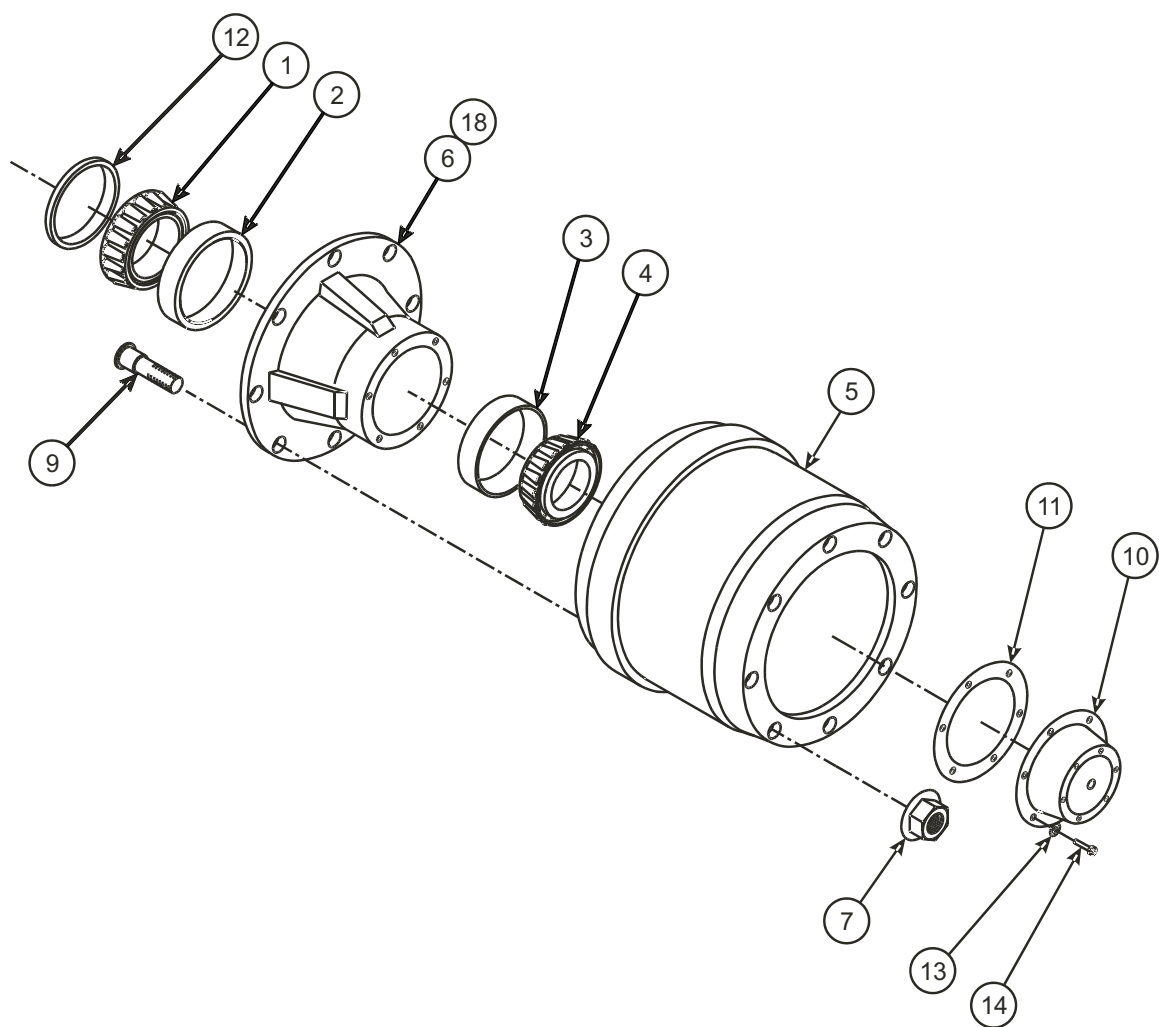


m114584

Figure 1-22 Brake Kit, Rockwell ABS

BRAKE KIT ROCKWELL ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	ABS BRAKE KIT 4S/2M	
	114586	ABS BRAKE KIT 4S/2M-TRI/SPRD	
1	114588	ECU/VALVE ASSEMBLY	1
2	101848	SENSOR EXTENSION CABLE (114584)	4
	103861	SENSOR EXTENSION CABLE (114586)	2
3	114590	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1
4	101851	DIAGNOSTIC SWITCH	1
5	101855	WARNING LAMP LABEL	1



huboabs2

Figure 1-23 Outboard Pilot Mount Hub and Drum

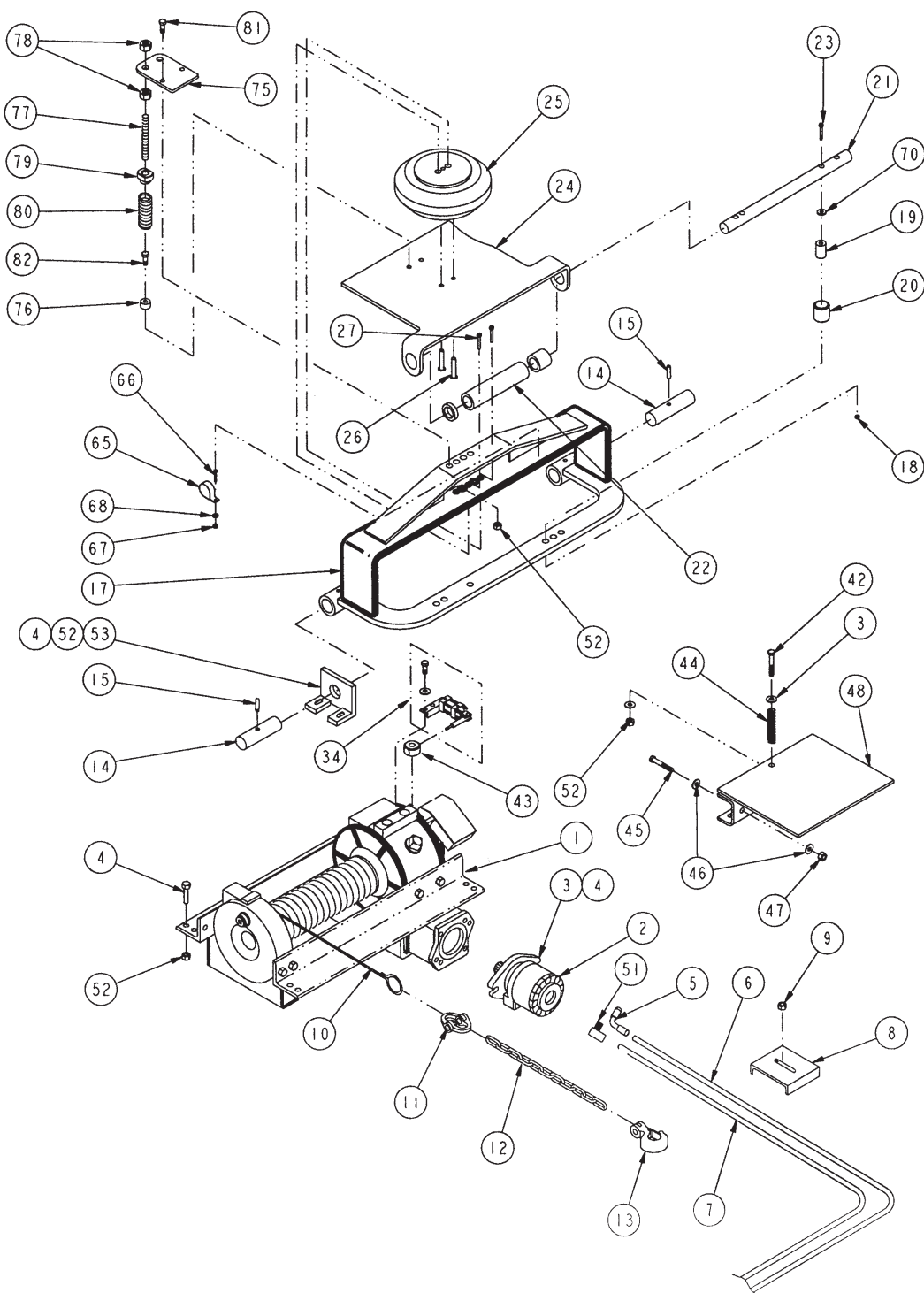
OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	103783	HUB/DRUM ASSY 16-1/2" LONG STUD, PILOT, ABS	
	105812	HUB/DRUM ASSY 12-1/4" LONG STUD, PILOT ABS	
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	110976(66884)	OUTBOARD MOUNTED BRAKE DRUM (10 BOLT)	1
	63680	OUTBOARD MOUNTED BRAKE DRUM (8 BOLT)	1
6	110975(2023----T)	HUB W/ TONE RING (10 BOLT)(USED W/ 103783)	1
	112492(2027----T)	HUB W/ TONE RING (8 BOLT)(USED W/ 105812)	1
7	179933	FLANGE NUT (10 BOLT)	10
	179955	FLANGE NUT (8 BOLT)	8
9	101160	STUD	10
10	4009	CAP HUB W/ VENT PLUG	1
11	071-124-00(3067)	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW HEX HEAD CAP 5/16-18 X 3/4 GR5	6
15	3-870-010104	WHEEL. 22.5X7.50 PILOT MT (10 BOLT) 16-1/2" BRAKE (NOT SHOWN)	1
	3-870-010106	WHEEL ALUM PILOT MT 22.5X7.50 (10 BOLT) (NOT SHOWN)	1
	3-870-010116	WHEEL ALUM PILOT MT 22.5X7.50 (10 BOLT) (NOT SHOWN)	1
	3-870-010097	WHEEL 17.5X6.75 PILOT MT (8 BOLT) 12-1/4" BRAKE (NOT SHOWN)	1
	100402	WHEEL 17.5X6.75 ALUM PILOT MT (8 BOLT) 12-1/4" BRAKE (NOT SHOWN)	1
	112047	WHEEL AL PILOT 17.5 X 6.75 MACH (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C - ALUMINUM WHL (NOT SHOWN)	1
	TR545D	VALVE STEM - ALUMINUM WHL (NOT SHOWN)	1
17	1-843-010014	VALVE EXTENSION, STEM 3" (USED W/ 12-1/4" BRAKES)(NOT SHOWN)	1
18	*	ABS TONE RING	1

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

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

NOTE: SEE PAGES 1-42 AND 1-42 FOR HUBODOMETER AND MOUNTING CAP PART NUMBERS.



3me873-010140

Figure 1-24 12K & 20K Upper Deck Winch (Braden)
(1 of 2)

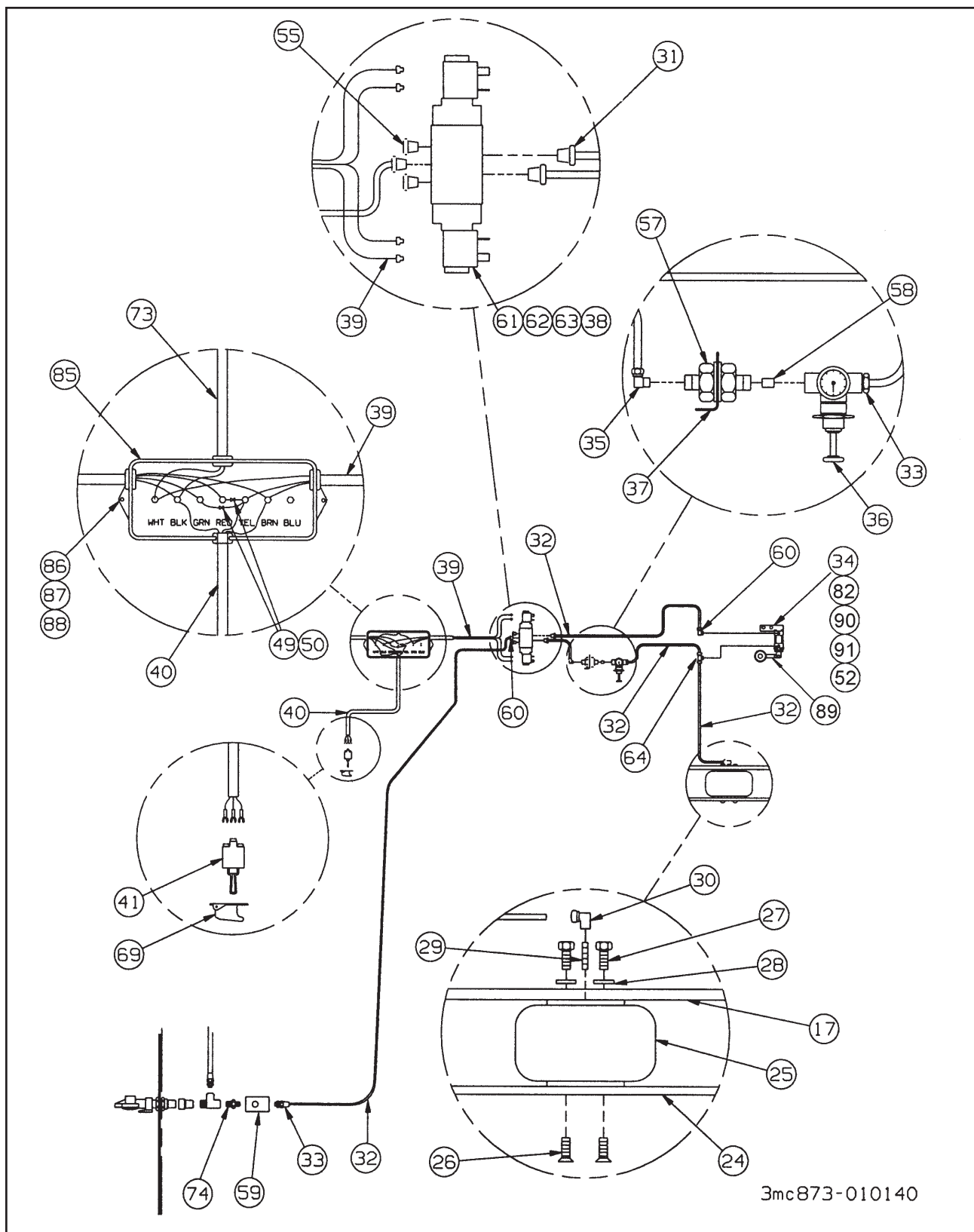


Figure 1-25 12K & 20K Upper Deck Winch (Braden)
(2 of 2)

12K & 20K UPPER DECK WINCH (BRADEN)

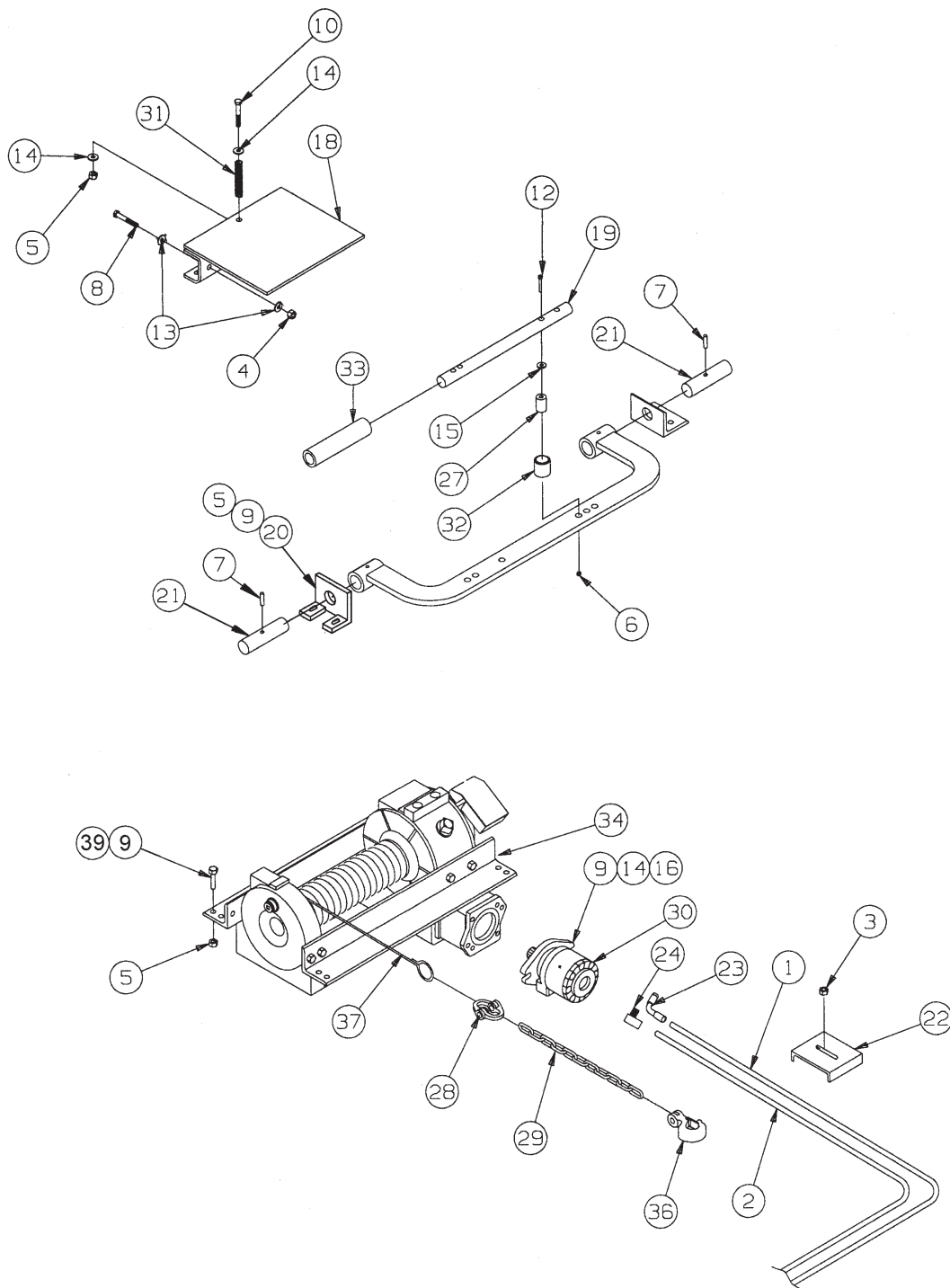
ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	
	3-873-010144	WINCH INSTALLATION 600-12K	
	123210	WINCH 20K GUIDE AIR TEN/REL	
1	3-873-010123	WINCH ASSY 20K (SEE PAGE 1-54)	1
	3-873-010122	WINCH ASSY 12K (SEE PAGE 1-51)	1
2	3-481-010007	MOTOR HYD. (20K) (SEE PAGE 1-57)	1
	3-481-010006	MOTOR HYD. (12K) (SEE PAGE 1-57)	1
3	1-861-010032-15	WASHER, FLAT 1/2	2
4	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	6
5	202702-10-8S	ADAPTER	1
6	1-397-010301170	HOSE ASSEMBLY	1
7	1-397-010302172	HOSE ASSEMBLY	1
8	2-181-010001	HOSE CLAMP	4
9	1-510-010001	NUT FLANGE LOCK 3/8-16	4
10	3-155-010017-4	CABLE (12K) 85' W/ LOOP	1
	3-155-010018-6	CABLE (20K) 85' W/ LOOP	1
11	3-174-010038	LINK	1
12	3-174-010039036	CHAIN	1
13	7HCGHT500	HOOK	1
14	3-557-010474	PIN, PIVOT	**2
	119622	PIN, PIVOT WINCH ROLLER	1
15	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	**2
16	3-125-010464	BRACKET WLDMT WINCH ROLLER (NOT SHOWN)	**1,****1
17	3-125-010465	BRACKET WLDMT WINCH TENSIONER	*1,**1,***1
18	1-512-010005-13	NUT HEX LOCK 5/8-11 GR8	**2
19	3-150-010196	BUSHING, ROD ROLLER-600	**2
20	3-831-010172	TUBE, ROLLER SIDE	**2
21	102188	ROD, PIVOTING GUIDE (20K)	**1
	3-642-010150	ROD, ROLLER TOP (12K)	**1
22	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	**2
	3-831-010151	TUBE, ROLLER TOP (12K)	**1
23	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11X5 GR5	**2
24	102187	WINCH TENSIONER PLATE (20K)	*1
	3-873-010145	WINCH TENSIONER PLATE (12K)	*1
25	3-720-010042	SPRING, AIR 6-1/2	*1
26	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16X1 GR8	*2
27	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16X1 GR5	*2
28	1-861-010032-10	WASHER FLAT 3/8N	*2
29	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	*1
30	1-297-010032-03	FITTING, AIR 90	*1
31	1-297-010007-04	CONNECTOR PIPE TO TUBE	***4
32	1-833-01001	NYLON TUBING 1/4 OD	***28FT
33	1-297-010007-05	FITTING, AIR	*2
34	107368	WINCH AIR SHIFT CYL (20K)(SEE PAGE 1-56)	***1
35	1-297-010008-07	FITTING, AIR 90	1
36	3-626-010004	REGULATOR, AIR PRESSURE	*1
37	3-120-010445	BRACKET, PRESSURE REGULATOR	*1
38	3-843-010022	VALVE, PNEUMATIC	***1
39	3-368-010129	HARNESS ASSY SINGLE REMOTE	***1
40	3-368-010187	HARNESS REMOTE SWITCH	***1
41	1-765-010065	SWITCH, TOGGLE	***1
42	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5	1
43	3-150-010186	BUSHING WINCH REMOTE LEVER (20K)	1
44	3-720-010010	SPRING COMP LEVEL WIND	1

12K & 20K UPPER DECK WINCH (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
45	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5	3
46	1-861-010032-10	WASHER, FLAT 3/8N	6
47	1-512-010005-05	NUT, HEX 3/8-16	3
48	102186	WINCH TENSIONER WLDMT (20K)	1
	3-873-010124	WINCH TENSIONER WLDMT (12K)	1
49	2-272-010109	ZENOR DIODE (20K)	2
50	3-272-010018	HEAT SHRINK INSULATOR (20K)	****2
51	2062-10-8S	ADAPTER, 90	****1
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	19
53	119621	ANCHOR CABLE GUIDE WINCH	2
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	VALVE AND FILTER PRESSURE	*1,2
	48100200	FILTER	*1,2
60	1-297-010008-05	FITTING, AIR 90	*3
61	1-654-010024014	SCREW, MACH SLOT 6-32X1-1/2	*3
62	1-861-010032-01	WASHER, FLAT #6	*3
63	1-512-010003-02	NUT, HEX LOCK 6-32	*1
64	1-297-010015-02	FITTING, AIR BRANCH TEE (20K)	REF
65	239-9076-3	SUPPORT CLAMP	*1
	125892	CLAMP, CABLE 3/8	1
66	1-656-010003053	SCREW RD HEAD MACH. #10-24X1 GR2	*1
67	1-512-010004-03	NUT HEX LOCK #10-24	*1
68	1-861-010034-07	WASHER, SPLIT LOCK #10	*1
69	3-348-010048	GUARD SWITCH -3 POSITION	1
70	1-861-0140032-18	WASHER FLAT 5/8N (20K)	**2
73	3-368-010188	HARNESS POWER3 JUMPER 660	1
74	1-297-010019-05	FITTING BRS PIPE HEX 3/8X1/4	1
75	3-565-011688	PLATE F/W SPRING TENSION - 600	*1
76	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION - 600	*2
77	RTR7999X4ZP	ROD THREADED	*2
78	1-512-010007-12	NUT HEX 3/4-10 GRB	*4
79	3-522-010017	NUT F/W SPRING TENSION - 600	*2
80	3-720-010035	SPRING	*2
81	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	*2
82	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	**2, ***3
83	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
85	750-029	JUNCTION BOX 7-STUD	1
86	1-512-010007-05	NUT HEX 1/4-20 GRB	2, ***3
87	1-861-010032-06	WASHER FLAT 1/4N	2
88	1-861-010034-09	WASHER SPLIT LOCK 1/4	2, ***3
89	107369	LEVER WINCH FREE SPOOL	***1
90	1-861-010032-14	WASHER, FLAT 1/2	***2
91	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
92	1-560-010002-01	PLUG 1/8 (12K) (NOT SHOWN)	1
93	F-100852	CABLE GUIDE PIVOT 12K (NOT SHOWN)	1

NOTES:

- * - FOR AIR TENSION OPTION.
- ** - FOR CABLE ROLLER OPTION (P/N F-100852).
- *** - FOR AIR SHIFT OPTION. (AVAILABLE ONLY ON 20K WINCH.)
- **** - FOR SPRING TENSION OPTION.



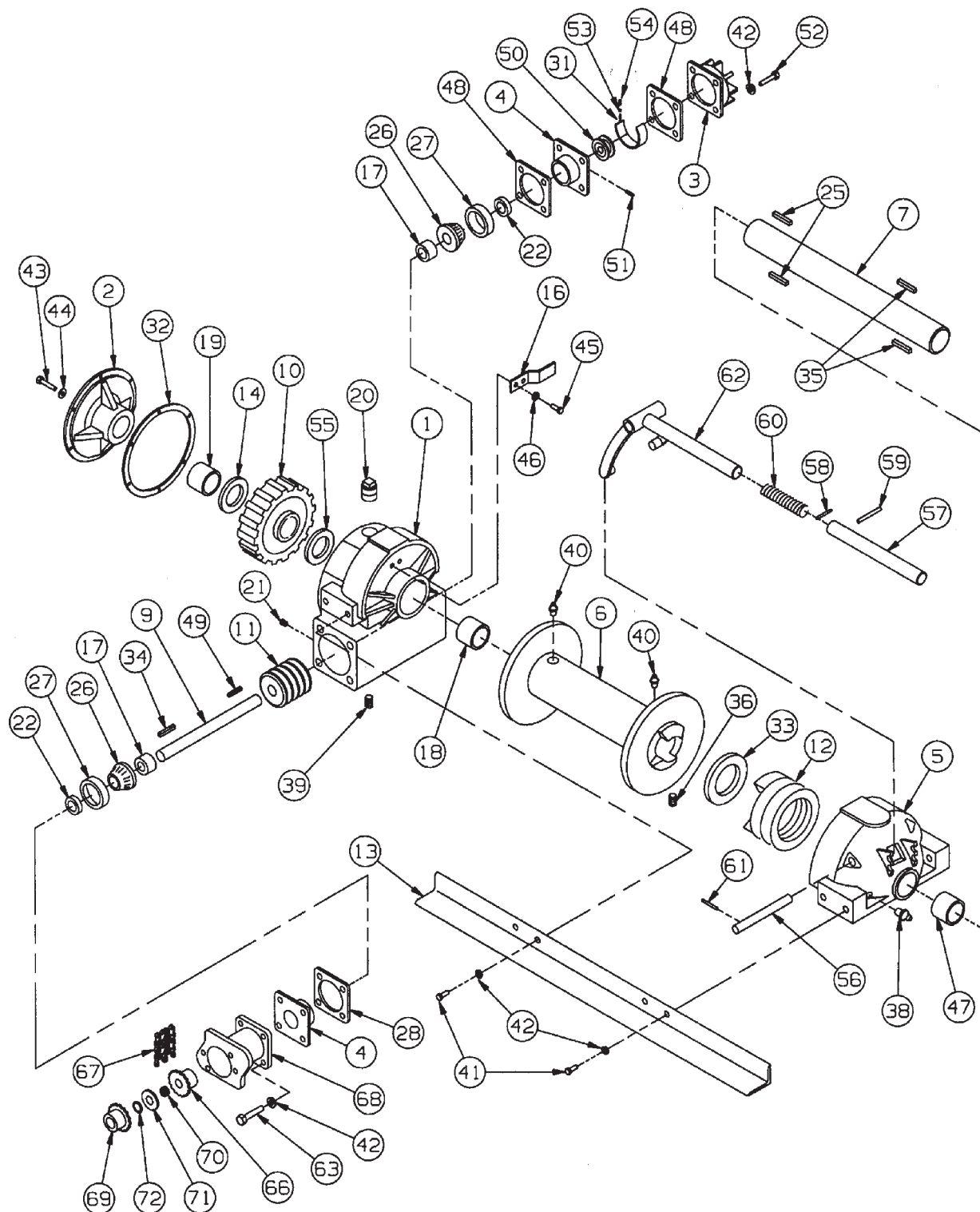
m119623

Figure 1-26 Winch Installation, Spring Tension Cable Roller

WINCH INST., SPRING TENSION CABLE ROLLER

ITEM	PART NO.	DESCRIPTION	QTY.
	119623	WINCH INST. 12K SPRING TENSION CABLE ROLLER	
	119624	WINCH INST. 20K SPRING TENSION CABLE ROLLER	
1	1-397-010301170	HOSE ASSEMBLY	1
2	1-397-010302172	HOSE ASSEMBLY	1
3	1-510-0100001	NUT FLANGE LOCK 3/8-16 (20K)	4
4	1-512-010005-05	NUT, HEX 3/8-16	3
5	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	13
6	1-512-010005-13	NUT HEX LOCK 5/8-11 GR8	2
7	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
8	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5	3
9	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	*6, 14
10	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5	1
12	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
13	1-861-010032-10	WASHER, FLAT 3/8N	6
14	1-861-010032-15	WASHER, FLAT 1/2	2
15	1-861-010032-18	WASHER FLAT 5/8N (20K)	2
16	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
17	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
18	3-873-010124	WINCH TENSIONER WLDMT (12K)	1
	102186	WINCH TENSIONER WLDMT (20K)	1
19	3-642-010150	ROD, ROLLER TOP (12K)	1
	102188	ROD, PIVOTING GUIDE (20K)	1
20	119621	ANCHOR CABLE GUIDE WINCH	2
21	119622	PIN, PIVOT WINCH ROLLER	2
22	2-181-010001	HOSE CLAMP	4
23	202702-10-8S	ADAPTER	1
24	2062-10-8S	ADAPTER 90	1
25	3-125-010464	BRACKET WLDMT WINCH ROLLER (NOT SHOWN)	1
27	3-150-010196	BUSHING, ROD ROLLER-600	2
28	3-174-010038	LINK	1
29	3-174-010039036	CHAIN	1
30	3-481-010006	MOTOR, HYD. (12K) (SEE PAGE 1-57)	1
	3-481-010007	MOTOR, HYD. (20K) (SEE PAGE 1-57)	1
31	3-720-010010	SPRING COMP LEVEL WIND	1
32	3-831-010172	TUBE, WINCH ROLLER SIDE	2
33	3-831-010151	TUBE, ROLLER TOP (12K)	1
	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	1
34	3-873-010122	WINCH ASSY (12K) (SEE PAGE 1-51)	1
	3-873-010123	WINCH ASSY (20K) (SEE PAGE 1-54)	1
36	7HCGHT500	HOOK	1
37	3-155-010018-6	CABLE 85' W/ LOOP	1
38	116378	SPACER, WINCH (12K) (NOT SHOWN)	8
39	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5 (12K)	*8,--

* 1ST QUANTITY LISTED IS FOR P/N 119623; 2ND QUANTITY LISTED IS FOR P/N 119624.



3mb410-011559

Figure 1-27 12,000# Winch Items (Braden Worm Gear)

12,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH ASSEMBLY, 12,000#	
1	81006	HOUSING ASSEMBLY WORM (INCLUDES ITEM 18)	1
2	81009	HOUSING COVER WORM (INCLUDES ITEM 19)	1
3	18032	HOUSING, SAFETY BRAKE	1
4	23303	CONTAINER, BEARING	2
5	81530	LEG ASSEMBLY, BEARING (INCLUDES ITEM 47)	1
6	11128	DRUM, CABLE	1
7	11129	DRUM SHAFT, CABLE	1
9	23470	SHAFT, WORM	1
10	11144	GEAR, WORM	1
11	11142	WORM, LEFT HAND	1
12	18039	SLIDING CLUTCH	1
13	22752	ANGLE, BASE	2
14	13680	THRUST RING	1
16	81025	BRAKE, DRAG	1
17	11308	SPACER, WORM	2
18	18078	BUSHING	1
19	11368	BUSHING	1
20	22775	PLUG, PIPE	1
21	18009	PLUG, PIPE	1
22	18026	SEAL, GREASE	2
25	11117	KEY, WORM GEAR	2
26	18015	CONE, BEARING	2
27	18016	CUP, BEARING	2
28	18027	GASKET	3
31	21925	BAND, BRAKE	1
32	11133	WORM HOUSING COVER GASKET	3
33	18019	RETAINER RING	1
34	18030	KEY, WORM	1
35	18020	KEY, CLUTCH	2
36	24032	SCREW, SET	1
38	18047	FITTING, GREASE	1
39	19045	PLUG, PIPE	1
40	11799	FITTING, GREASE	2
41	21961	CAPSCREW	12
42	18003	WASHER, LOCK	16
43	11767	CAPSCREW	6
44	11011	WASHER, LOCK	6
45	13005	CAPSCREW	2
46	12780	WASHER, LOCK	2
47	18078	BUSHING	1
48	18024	BEARING CONTAINER GASKET	3
49	10078	KEY	1

12,000# WINCH ITEMS (BRADEN)

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

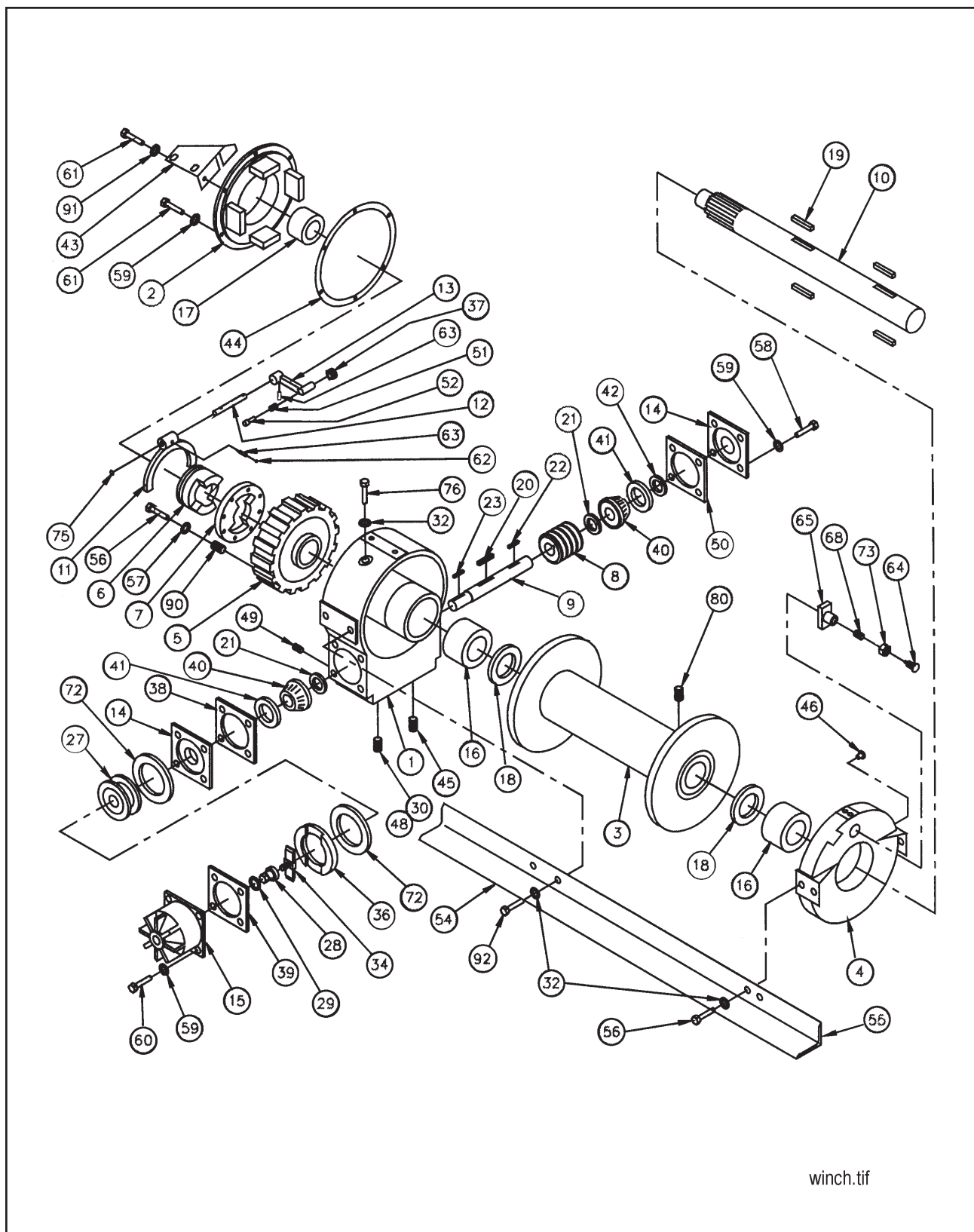


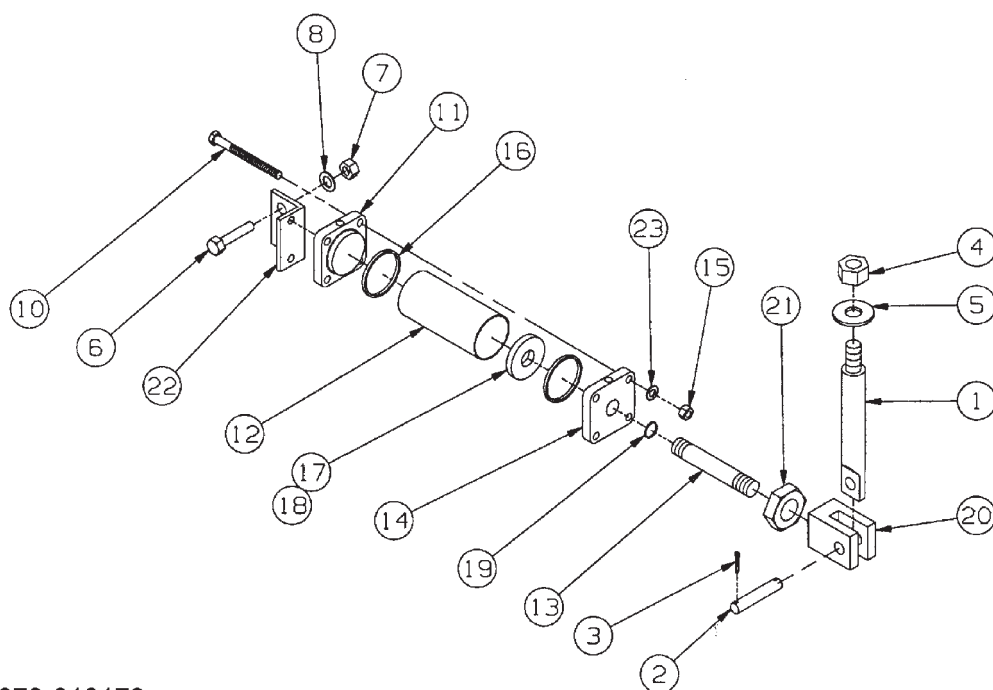
Figure 1-28 20,000# Winch Items (Braden Worm Gear)

20,000# WINCH ITEMS (BRADEN)

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

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
50	11430	GASKET	4
51	11310	SPRING SHIFTER KNOB	1
52	11309	STEM SHIFTER KNOB	1
54	28942	ANGLE FRONT BASE	1
55	28943	ANGLE REAR BASE	1
56	13938	CAPSCREW	16
57	12781	WASHER LOCK	8
58	21044	CAPSCREW	4
59	11025	WASHER LOCK	3
60	22695	CAPSCREW	4
61	21964	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLLPIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	22729	CAPSCREW	2
77	23245	SAE PLATE -AMU7-16F (NOT SHOWN)	1
78	23310	PLATE WARNING (NOT SHOWN)	1
79	11842	SCREW DRIVE (NOT SHOWN)	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER	1
92	22697	CAPSCREW	5



3md873-010179

Figure 1-29 Winch Air Shift Cylinder for 20,000# Winch

WINCH AIR SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	107368	WINCH AIR SHIFT CYL 20M BRADEN (WBR-716-MOD) (INCLUDES ITEMS 1 - 23)	
1	2390	BRACKET	1
2	1976	PIN	1
3	2356	COTTER PIN	1
4	1-512-010007-05	NUT, HEX 1/4-20 GRB (1161)	1
5	1-861-010034-09	WASHER SPLIT LOCK 1/4(1766)	1
6	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (1486)	2
7	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB (1211)	2
8	1-861-010032-14	WASHER FLAT 1/2 (1210)	2
9	C2001	CYLINDER (INCLUDES ITEMS 10 - 23)	1
10	1128	CAP SCREW	4
11	1272	REAR COVER PLATE	1
12	1277	TUBE	1
13	2388	PISTON ROD	1
14	1271	FRONT COVER PLATE	1
15	1723	NUT	4
16	1274	BACK-UP-RING	2
17	1275	O-RING	1
18	1273	PISTON	1
19	1276	O-RING	1
20	1974	CLEVIS	1
21	1224	NUT	1
22	2389	BRACKET	1
23	1766	LOCKWASHER	4
	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	3109	O-RING KIT FOR CYLINDER	

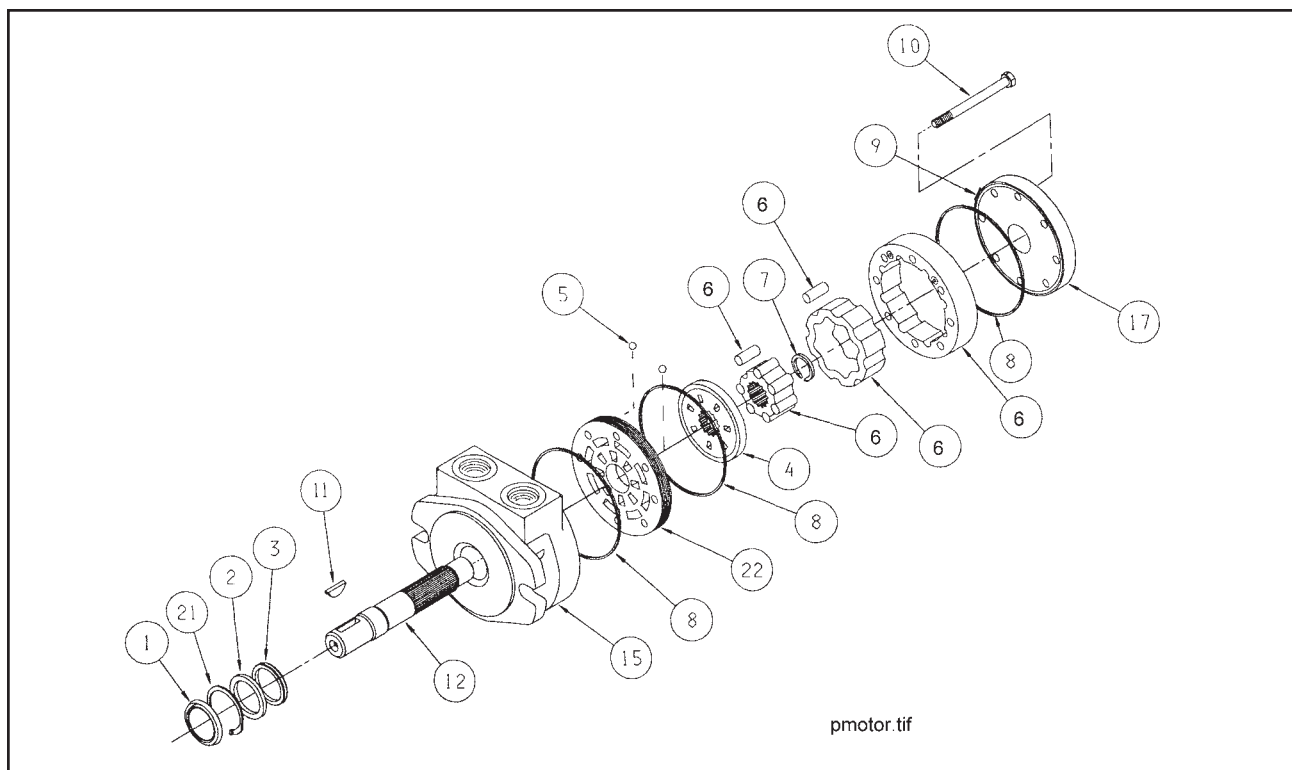
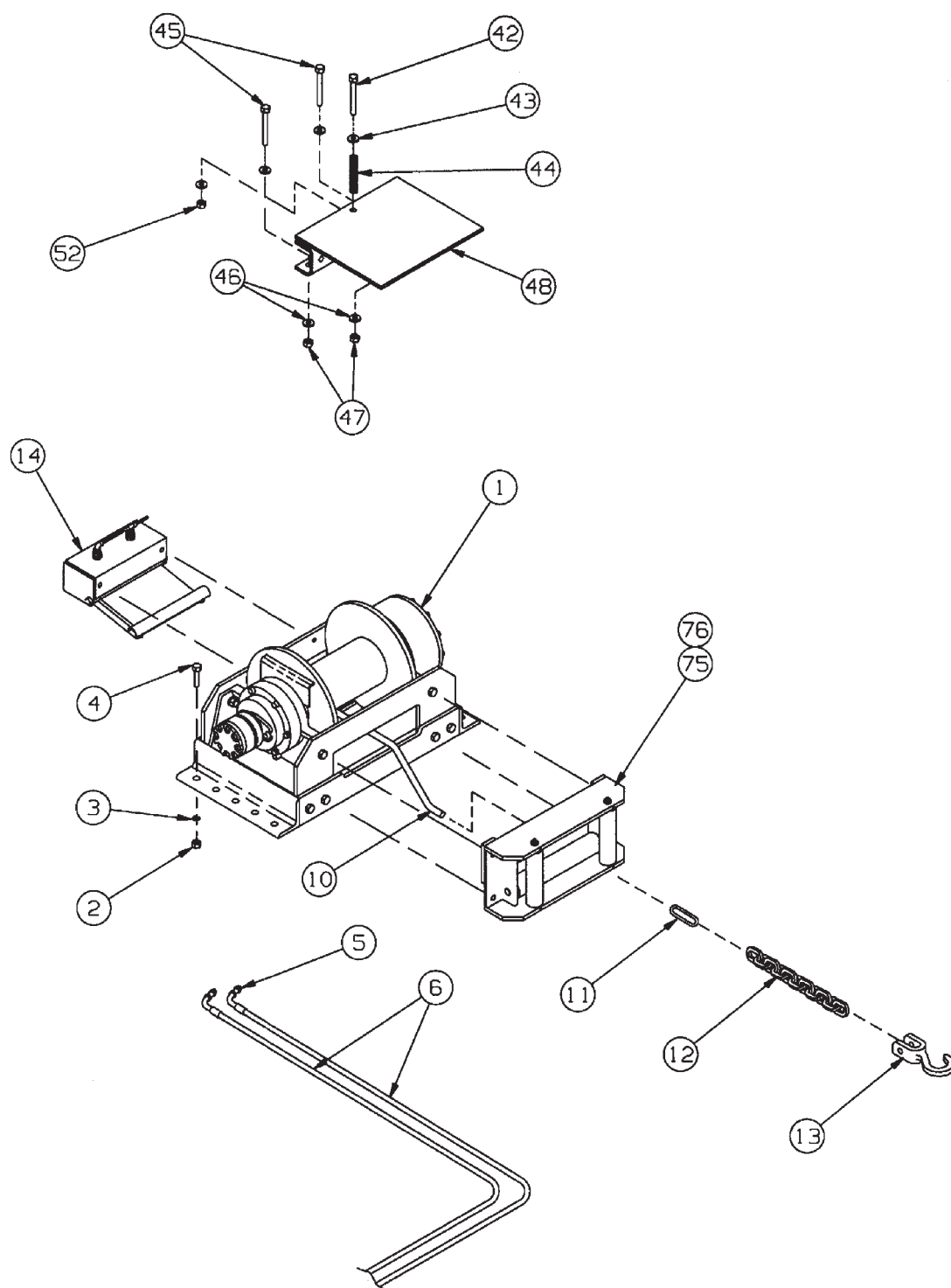


Figure 1-30 Winch Motor Assembly

WINCH MOTOR ASSEMBLY (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010007	MOTOR HYDRAULIC (FOR 20K WINCH)	1
	3-481-010006	MOTOR HYDRAULIC (FOR 12K WINCH)	1
1	2183	SEAL DUST	1
2	2177	BACK-UP RING	1
3	2175	SEAL LIP	1
4	1644	ROTARY VALVE	1
5	1021	CHECK VALVE BALL	2
6	1004-6	IGR ASSY (FOR 20K WINCH)	1
	1004-3	IGR ASSY (FOR 12K WINCH)	1
7	1296	SNAP RING	1
8	1046	RING SEAL	3
9	1019-4	PLUG VENT W/O-RING	1
10	1014-4	BOLTS HEX (FOR 20K WINCH)	8
	1114-5	BOLTS HEX (FOR 12K WINCH)	8
11	1655	KEY WOODRUFF	1
12	2265-6	SHAFT (FOR 20K WINCH)	1
	2109-3	SHAFT (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	COMMUTATOR PLATE	1
	2263	SEAL KIT BODY	1
	2480	SEAL KIT BODY VITON	1



3mc873-010170

Figure 1-31 30K Upper Deck Winch (DP)
(1 of 2)

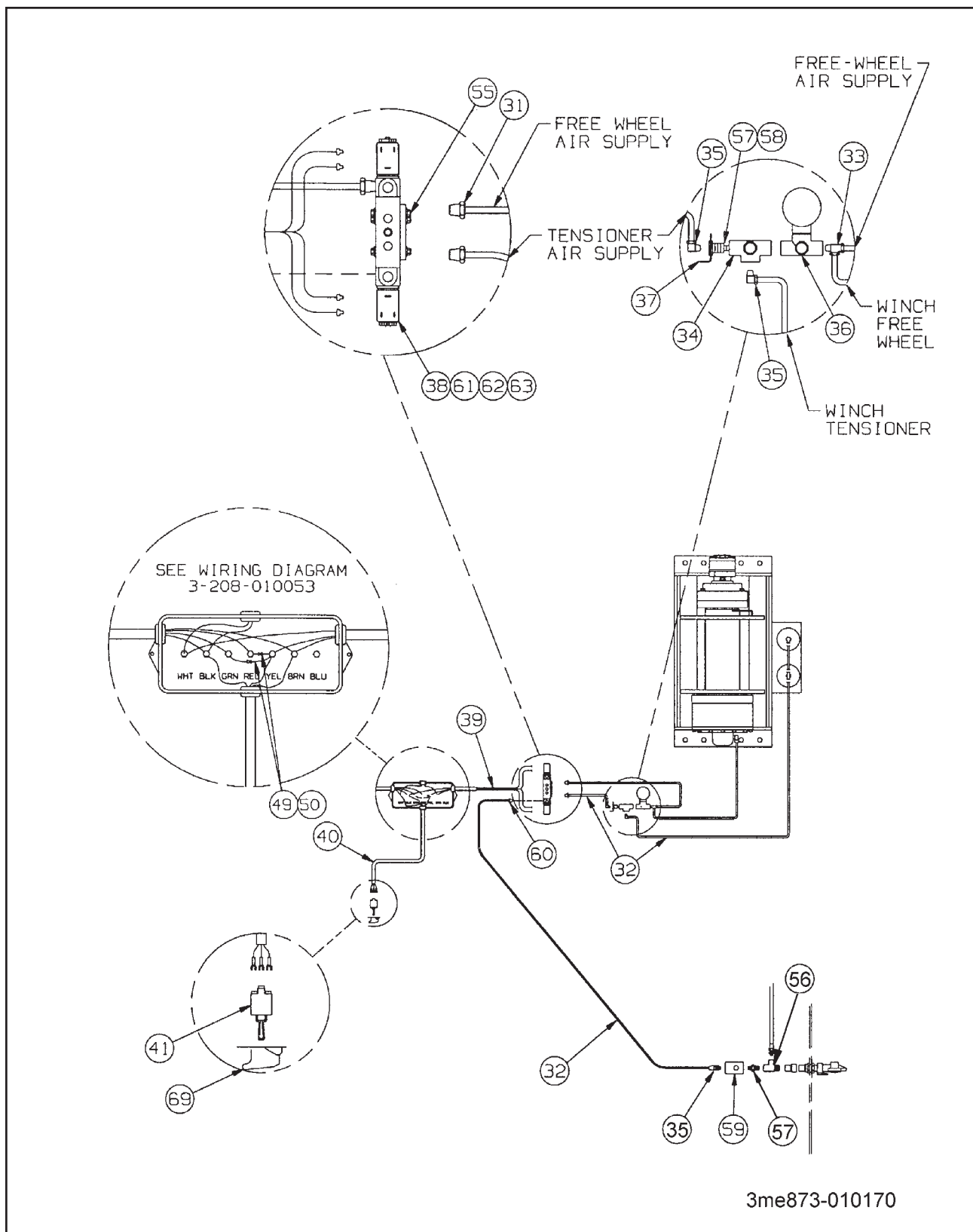


Figure 1-32 30K Upper Deck Winch (DP)
(2 of 2)

30K UPPER DECK WINCH (DP)

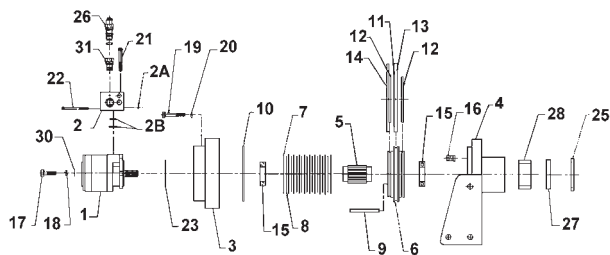
ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010170	WINCH INSTALLATION 600-30K UPPER DECK	
1	3-873-010173-01	WINCH 30K ITEMS (SEE PAGE 1-63)	1
2	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	10
3	1-861-010034-17	WASHER, SPLIT LOCK 3/4	10
4	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10X2-1/2 GR5	10
5	202702-8-8S	ADAPTER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

30K UPPER DECK WINCH (DP)

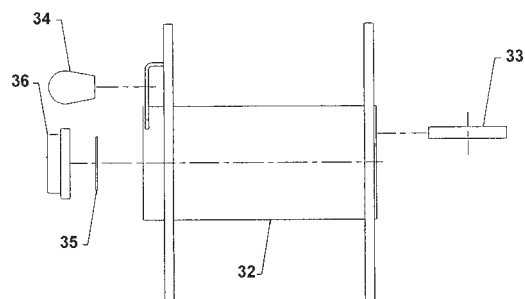
ITEM	PART NO.	DESCRIPTION	QTY.
75	122333	WINCH ROLL. GDE 30K PLNTY DP (SEE PAGE 1-67)	*1
76	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	*4

NOTES:

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



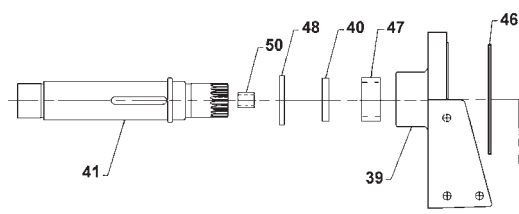
MOTOR END INSTALLATION



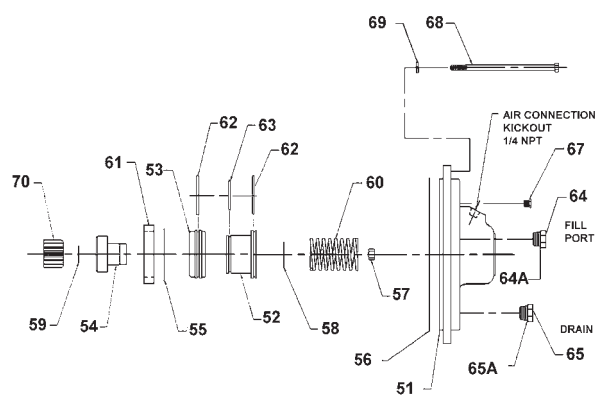
DRUM INSTALLATION



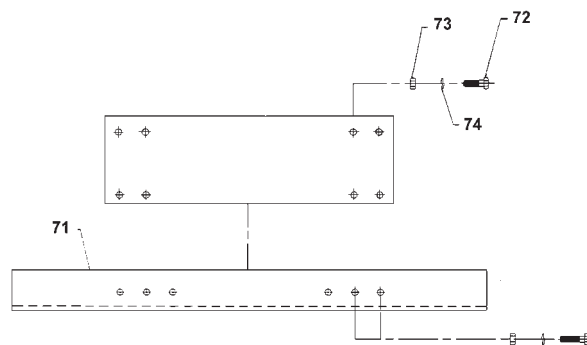
INPUT SHAFT INSTALLATION



GEAR END INSTALLATION



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



BASE MOUNT INSTALLATION

Figure 1-33 30,000# Winch Items (DP Planetary)

30,000# WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010173-01	WINCH 30K ITEMS	
MOTOR END INSTALLATION			
1	73174	MOTOR, HYDRAULIC	1
2	13330	VALVE, COUNTERBALANCE	1
2A	9612	O-RING, 1/8 I.D. X 3/32 SECTION	2
2B	9972	O-RING, 5/8 I.D. X 13/16 X 3/32 SECTION	2
3	13316	BRAKE HOUSING	1
4	13299	SUPPORT MOTOR END	1
5	11750	SHAFT BRAKE	1
6	11443	PISTON BRAKE	1
7	11603	PLATE DISC FRICTION	10
8	3159	PLATE DRIVE BRAKE	9
9	3263	PIN DOWEL 5/16 DIA. X 3-1/2	2
10	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION	2
13	9854	RING, BACK-UP	1
14	9852	RING, BACK-UP 5-3/8 I.D.	1
15	81434	BEARING BALL 1-3/4 I.D.	2
16	2319	SPRING COMPRESSION	12
17	1402	CAP SCREW HEX HEAD 1/2-13 X 1-1/4	2
18	1495	WASHER LOCK 1/2	2
19	1376	SCREW CAP HEX HEAD 7/16 X 2-1/2	6
20	1388	WASHER LOCK 7/16	6
21	1188	SCREW CAP SOCKET HEAD 5/16 X 3	4
22	4042	SCREW CAP SOCKET HEAD 1/4-20 X 3-3/4	1
23	9880	O-RING 3 I.D. X 1/8 SECTION	1
24	10708	TAG WARNING (NOT SHOWN)	1
25	9890	SEAL SHAFT	1
26	3177	CARTRIDGE COUNTERBALANCE	1
27	13288	WASHER THRUST BRONZE	1
28	81454	BEARING -TORRINGTON	1
30	1498	WASHER FLAT 1/2 SAE	2
31	13356	ASSEMBLY PLUG	1
DRUM INSTALLATION			
32	13285	DRUM	1
33	11977	KEY DRUM	2
34	10525	WEDGE CABLE 5/8	1
35	9672	O-RING 2-5/8 ID X 1/8 W	1
36	13286	SPACER	1
INPUT SHAFT INSTALLATION			
37	13317	SHAFT INPUT	1
GEAR END INSTALLATION			
38	3126	GEAR RING	1
39	13300	SUPPORT GEAR END	1

30,000# WINCH ITEMS (DP PLANETARY)

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

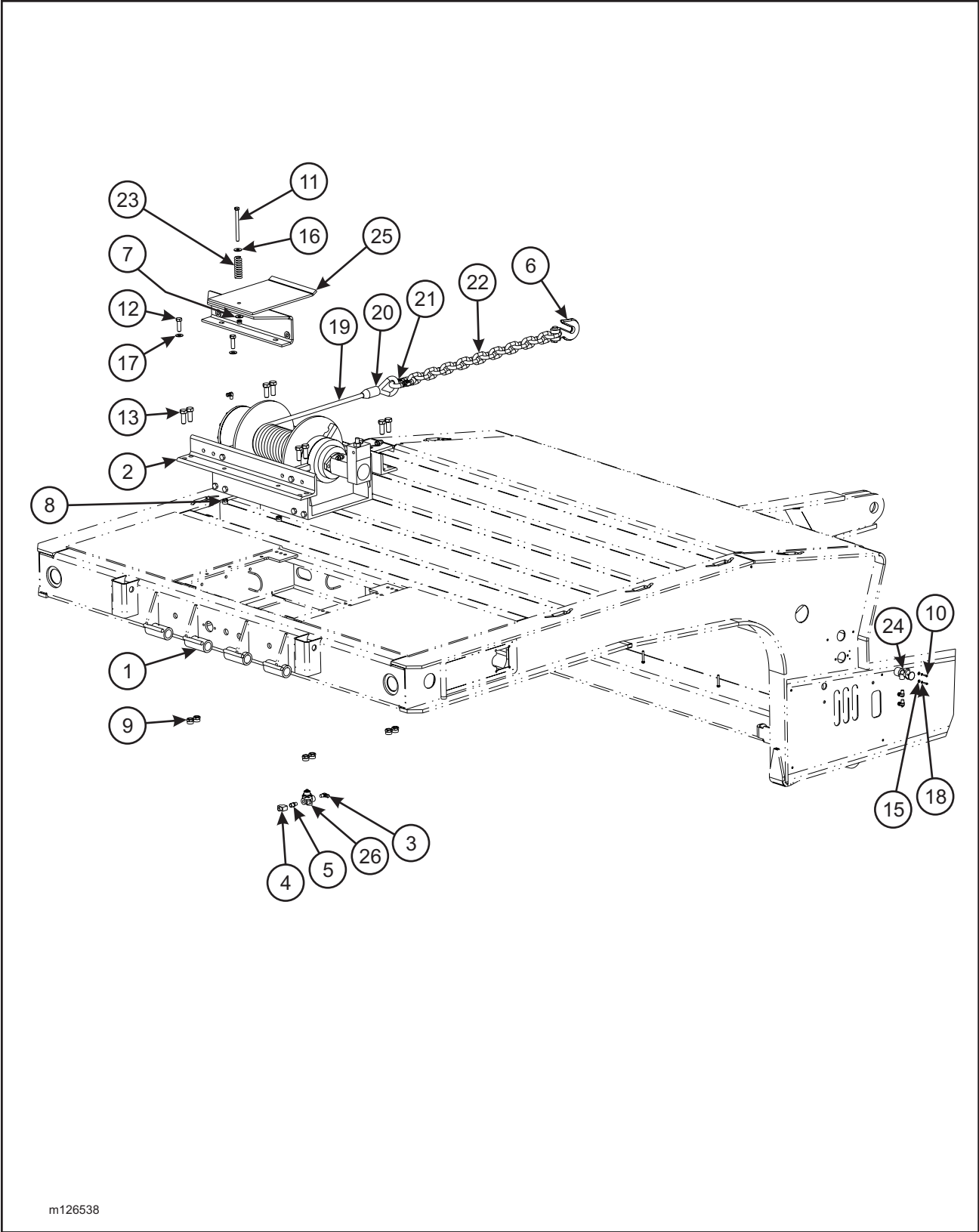


Figure 1-34 30K Upper Deck Winch (DP)

WINCH INSTALLATION 30K DP SPG TENSION A/R

ITEM	PART NO.	DESCRIPTION	QTY.
	126538	WINCH INSTALLATION 30K DP SPRING TENSION A/R	
1	126539	FRAME MOD 30K DP G/N	REF
2	126580	WINCH MOD 30K DP AIR RELEASE (SEE PAGE 1-63)	1
3	1-297-010008-07	FITTING, AIR 90	4
4	1-297-010018-03	FITTING, 1/4 TEE	REF
5	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
6	1-382-010035-06	HOOK, CLEVIS GRAB 5/8 GR80	1
7	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
8	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
9	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	8
10	1-654-010024079	SCREW, MACH FILLISTER #10-32 X 3/4	2
11	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	1
12	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	2
13	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	8
14	1-833-010001	TUBING, NYLON 1/4 (NOT SHOWN)	1
15	1-861-010032-03	WASHER, FLAT #10	2
16	1-861-010032-15	WASHER, FLAT 1/2W	2
17	1-861-010032-18	WASHER, FLAT 5/8N	4
18	1-861-010034-07	WASHER, SPLIT LOCK #10	2
19	202702-8-8S	ADAPTER	2
20	3-153-010016-XX	CABLE ASSEMBLY 3/4	REF
21	3-174-010059	CHAIN LINK CONNECTING 5/8	1
22	3-174-010060036	CHAIN, 5/8 X 36 GRADE 80	1
23	3-720-010010	SPRING, COMPRESSION	1
24	3-843-010008	VALVE, AIR 3 WAY 2 POS PUSH-PULL	1
25	3-876-010017	WINCH TENSIONER WELDMENT 30K	1
26	905-54-107	BRAKE PROTECTION VALVE	1
27	1-397-010302220	HOSE ASSEMBLY 1/2 X 220 (NOT SHOWN)	2

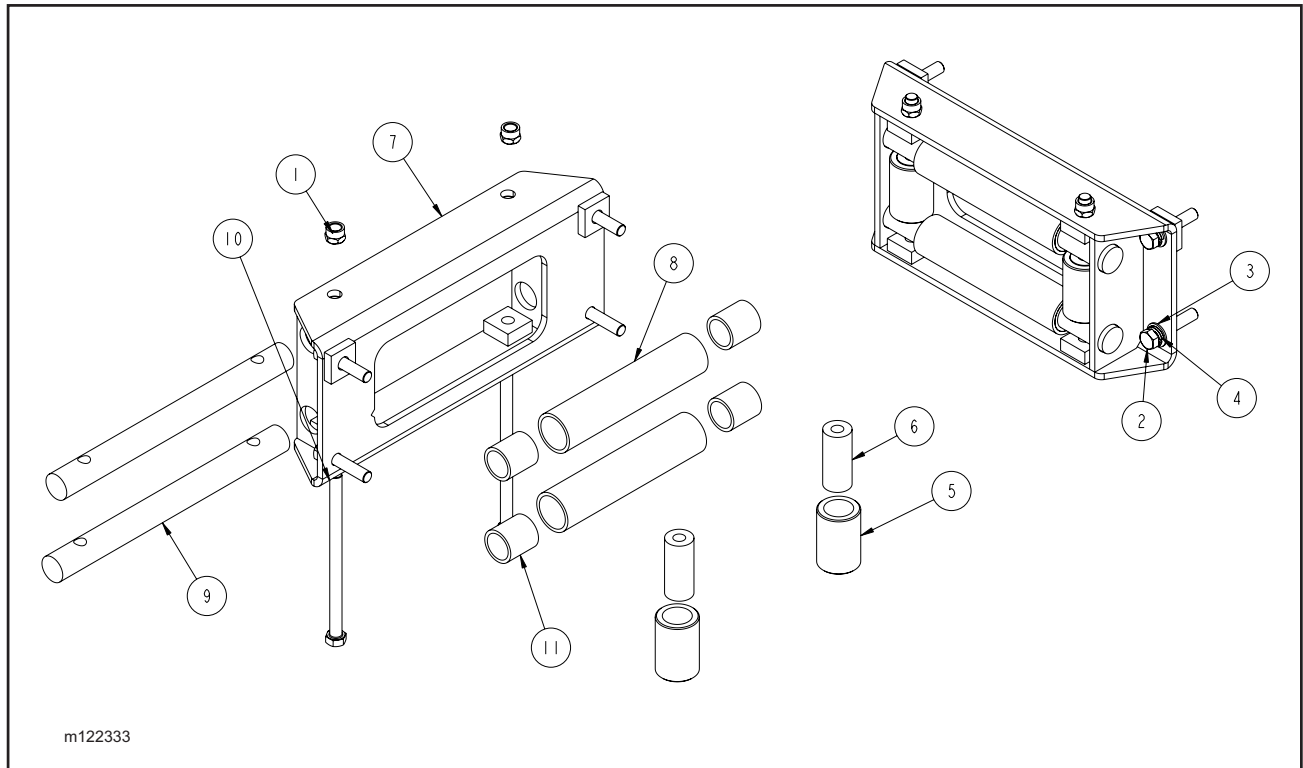
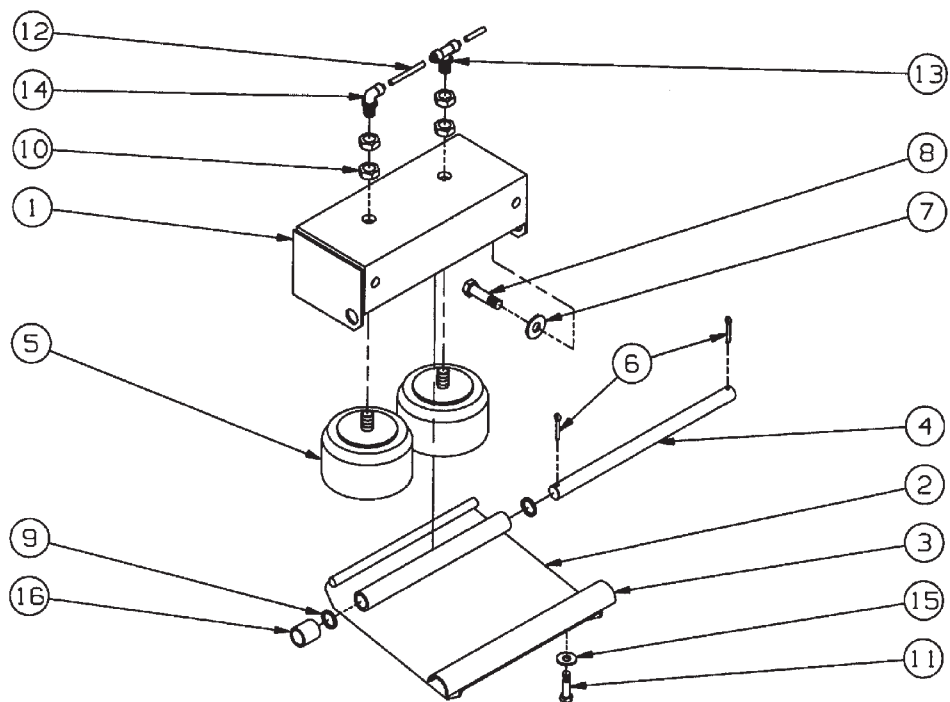


Figure 1-35 Winch Roller Guide - 30K

WINCH ROLLER GUIDE -30K (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	122333	WINCH ROLLER GUIDE - 30K PLNTY DP-600	
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
2	1-654-010059-09	SCREW, HEX HEAD CAP 5/8-11 X 3 GR5	4
3	1-861-010032-18	WASHER, FLAT 5/8N	4
4	1-861-010034-15	WASHER, SPLIT LOCK 5/8	4
5	111385	TUBE VERTICAL ROLLER FAIRLEAD	2
6	111386	BUSHING FAIRLEAD VERT ROLLER	2
7	122334	MOUNT WELDMENT	1
8	122336	TUBE, HORIZ ROLLER	2
9	122337	ROD, ROLLER	2
10	122458	SCREW, HEX HEAD CAP 5/8-11 X 10 GR8	2
11	AA-1807	SLEEVE, BEARING 1-1/2D X 1-7/8OD X 2	4

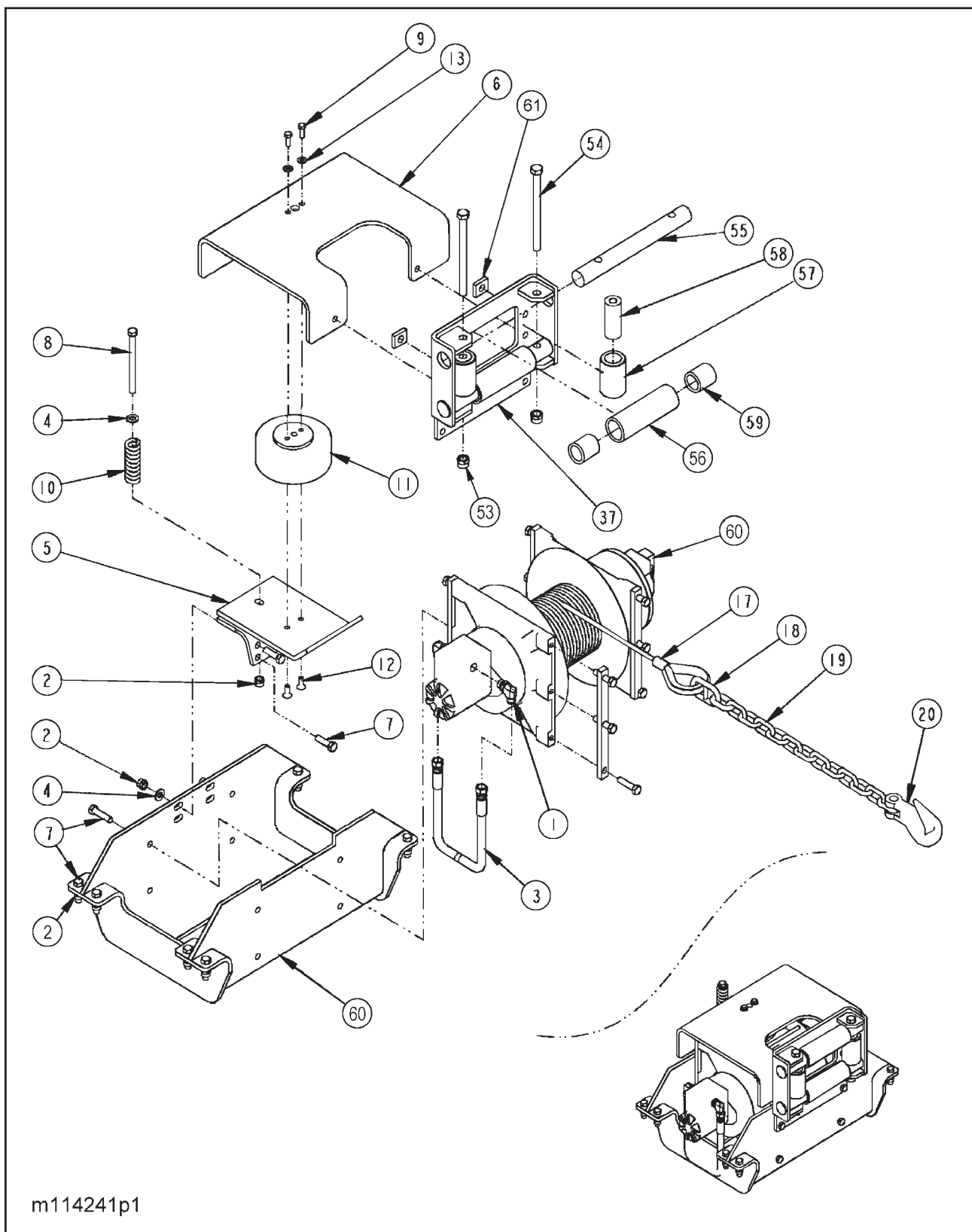


3mb873-010172

Figure 1-36 Winch, Cable Air Tension (DP)

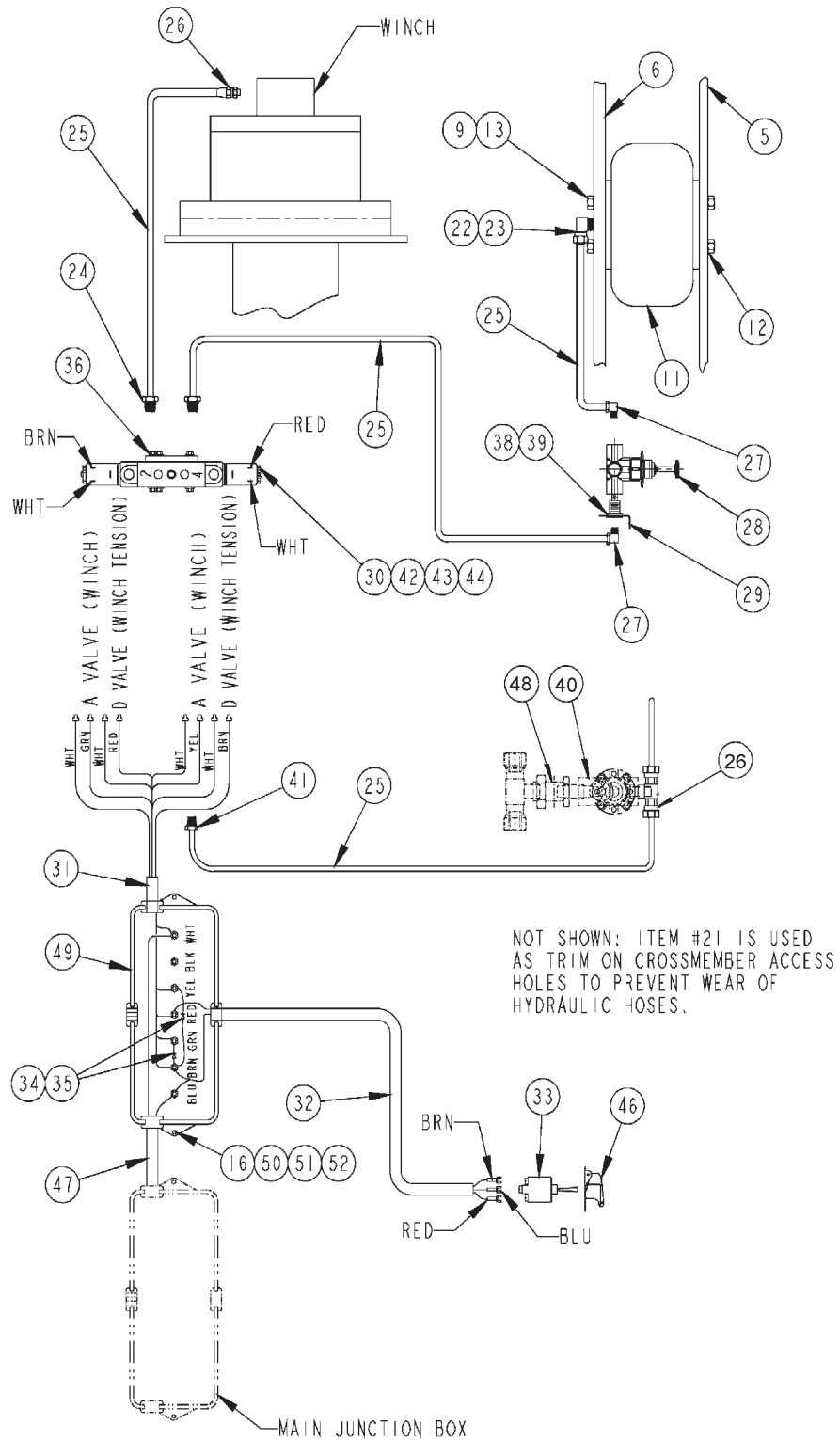
WINCH, CABLE AIR TENSION (DP)

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



m114241p1

Figure 1-37 12K, 15K, & 20K Upper Deck Winch (DP)
(1 of 2)



m114241p2

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

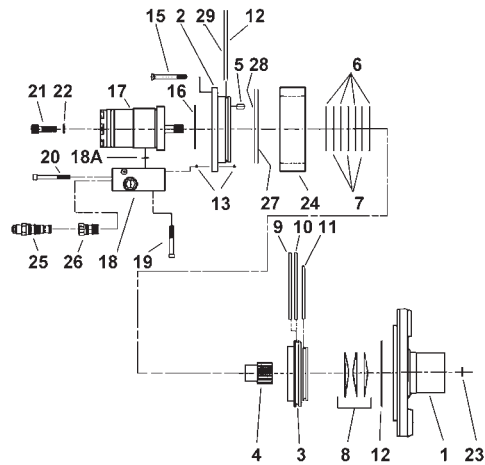
12K, 15K, & 20K UPPER DECK WINCH (DP)

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

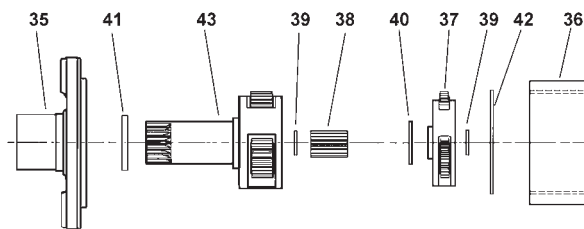
12K, 15K, & 20K UPPER DECK WINCH (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
46	3-348-010048	GUARD, SWITCH - 3 POSITION (*)	1
47	3-368-010188	HARNESS, POWER JUMPER (*)	1
48	1-297-010019-05	FITTING, BR	REF
49	750-029	JUNCTION BOX 7 STUD (*)	1
50	1-512-010007-05	NUT, HEX 1/4-20 GRB (*)	2
51	1-861-010032-06	WASHER, FLAT 1/4N (*)	2
52	1-861-010034-09	WASHER, SPLIT LOCK 1/4 (*)	2
53	100827	NUT, FLANGE HEAD SERRATED 5/8-11 GRB	4
54	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8	2
55	111383	ROD FAIRLEAD ROLLER	2
56	111384	TUBE HORIZONTAL ROLLER FAIRLEAD	2
57	111385	TUBE, VERTICAL ROLLER FAIRLEAD	2
58	111386	BUSHING, FAIRLEAD VERT ROLLER	2
59	3-150-010005	1-1/2 ID BRONZE SLEEVE BEARING	2
60	111091	WINCH DP 12K MANUAL	1
	111092	WINCH DP 12K AIR	1
	111093	WINCH DP 15K MANUAL	1
	111094	WINCH DP 15K AIR	1
	111095	WINCH DP 20K MANUAL	1
	111096	WINCH DP 20K AIR	1
		(SEE PAGE 1-75 FOR WINCH BREAKDOWNS)	
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2

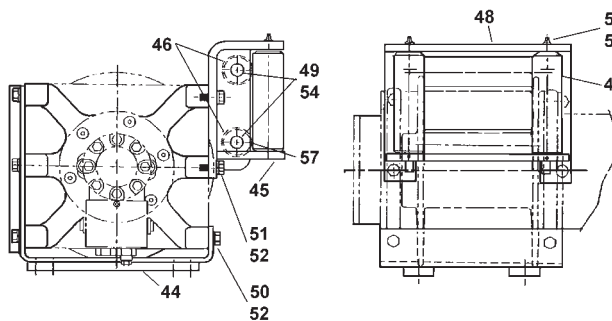
* USED ON AIR TENSION RELEASE MODELS



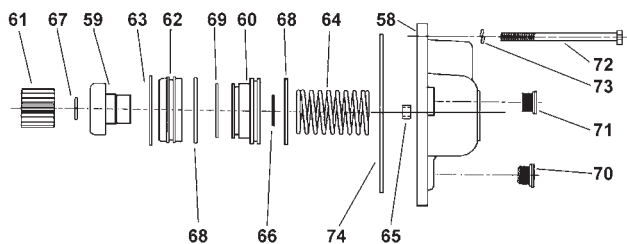
MOTOR END INSTALLATION



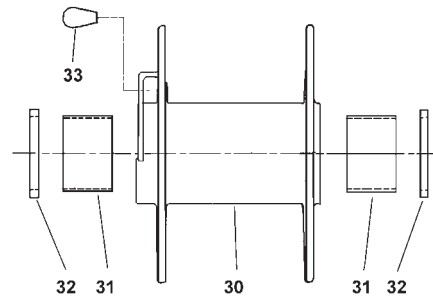
GEAR END INSTALLATION



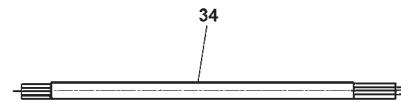
BASE INSTALLATION



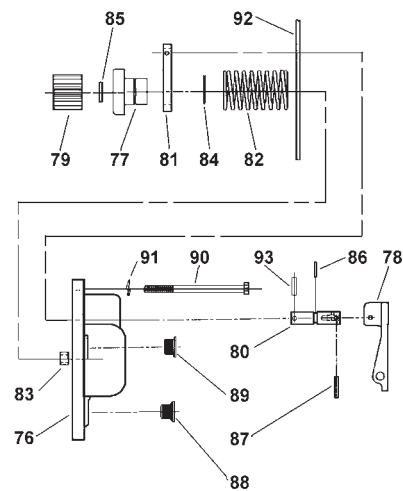
AIR KICKOUT
GEAR END COVER INSTALLATION



CABLE DRUM INSTALLATION



INPUT SHAFT INSTALLATION



LEVER KICKOUT
GEAR END COVER INSTALLATION

Figure 1-39 12K, 15K, & 20K Winch Items (DP Planetary)

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

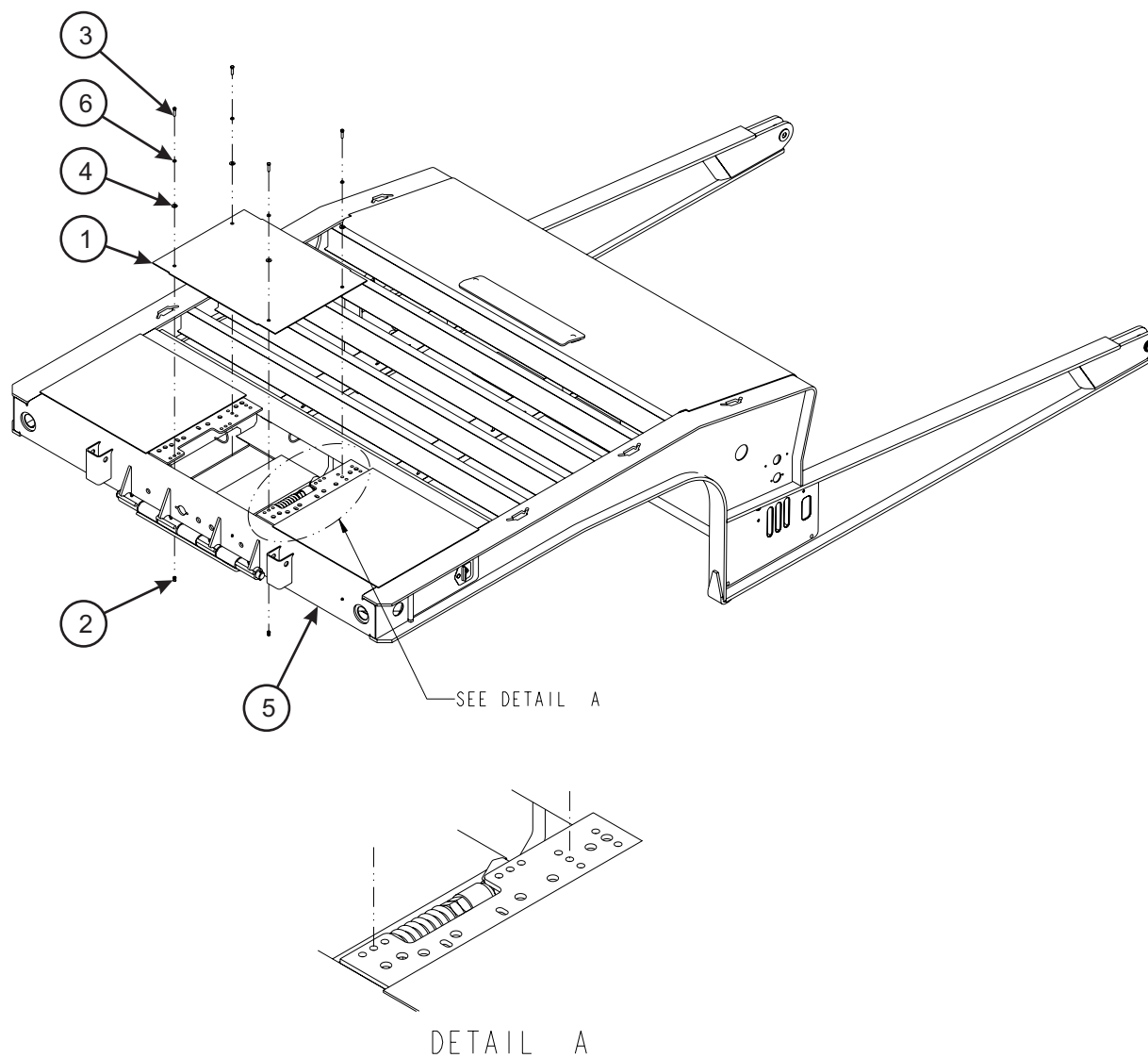
ITEM	PART NO.	DESCRIPTION	QTY.
	111091	WINCH DP 12K MANUAL	
	111092	WINCH DP 12K AIR	
	111093	WINCH DP 15K MANUAL	
	111094	WINCH DP 15K AIR	
	111095	WINCH DP 20K MANUAL	
	111096	WINCH DP 20K AIR	
MOTOR END INSTALLATION			
1	13620	SUPPORT, MOTOR END	1
2	13602	ADAPTER, MOTOR	1
3	13603	PISTON, BRAKE	1
4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

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

ITEM	PART NO.	DESCRIPTION	QTY.
INPUT SHAFT INSTALLATION			
34	13678	INPUT SHAFT	4
GEAR END INSTALLATION			
35	13605	SUPPORT, END GEAR	1
36	81107	GEAR - RING	1
37	3412	CARRIER, PRIMARY	1
38	13380	GEAR, SUN	1
39	13385	WASHER, THRUST	2
40	12083	WASHER, THRUST NYLON J	1
41	13164	WASHER, THRUST NYLON	1
42	9897	O-RING	1
43	13379	CARRIER ASSEMBLY, SECONDARY	1
BASE MOUNT INSTALLATION			
44	13599	BASE, MOUNTING	1
45	13746	BRACKET, MOUNTING	1
46	13400	ROLLER, VERTICAL	2
47	12048	ROLLER, VERTICAL BUMPER	2
48	12043	SHAFT, ROLLER VERTICAL, BUMPER	2
49	13403	SHAFT ROLLER VERTICAL 7/8 X 9-3/8	2
50	1401	CAP SCREW, HEX HEAD 1/2-13NC X 1	8
51	1402	CAP SCREW, HEX HEAD 1/2-13NC X 1-1/4	4
52	1495	WASHER, LOCK 1/2	12
53	1000	FITTING, GREASE STR 1/8	4
54	81611	BUSHING, BRONZE	8
55	12113	PLATE, ID WINCH (NOT SHOWN)	1
56	1165	RIVET, TYPE U (NOT SHOWN)	4
57	3456	PIN, SPRING 3/16 X 13/16	4
GEAR END COVER INSTALLATION - AIR KICKOUT			
58	13370	COVER, GEAR END	1
59	13372	COUPLING, DRIVE	1
60	13373	PISTON - AKO	1
61	13386	GEAR, SUN	1
62	13296	CYLINDER, PISTON	1
63	3632	RING, RETAINING ROUND	1
64	2309	SPRING, COMPRESSION	1
65	81612	BUSHING, BRONZE	1
66	3303	RING, RETAINER	1
67	3321	RING, RETAINER	1
68	9672	O-RING	2
69	9704	O-RING	1
70	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
71	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
72	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
73	1168	WASHER, LOCK 5/16	8

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

ITEM	PART NO.	DESCRIPTION	QTY.
74	9897	O-RING	1
75	1157	CAPLUG (NOT SHOWN)	1
GEAR END COVER INSTALLATION - LEVER KICKOUT			
76	14182	COVER, GEAR END	1
77	13372	COUPLING, DRIVE	1
78	14099	LEVER, KICKOUT	1
79	13386	GEAR, SUN	1
80	14181	SHAFT, SIFTER	1
81	14183	YOKE, OVAL SHIFT	1
82	2309	SPRING, COMPRESSION	1
83	81612	BUSHING, BRONZE	1
84	3303	RING, RETAINER	1
85	3321	RING, RETAINER	1
86	9739	O-RING	1
87	3705	PIN, SPRING 3/16 X 1-1/9	1
88	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
89	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
90	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
91	1168	WASHER, LOCK 5/16	8
92	9897	O-RING	1
93	3456	PIN, SPRING 3/16 X 13/16	1



m137635

Figure 1-40 Cover Assembly, Upper Deck

COVER ASSEMBLY, UPPER DECK

ITEM	PART NO.	DESCRIPTION	QTY.
	137635	COVER ASSEMBLY, UPPER DECK	
1	137634	COVER, UPPER DECK	1
2	139254	NUTSERT 3/8-16	4
3	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
4	1-861-010032-11	WASHER, FLAT 3/8W	4
5	130552	FRAME ASSEMBLY, GOOSENECK	REF
6	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
7	1-007-010025	PLUG, 3/4-16 O-RING BOSS (NOT SHOWN) (USED TO PLUG PORTS ON HYDRAULIC VALVE)	1

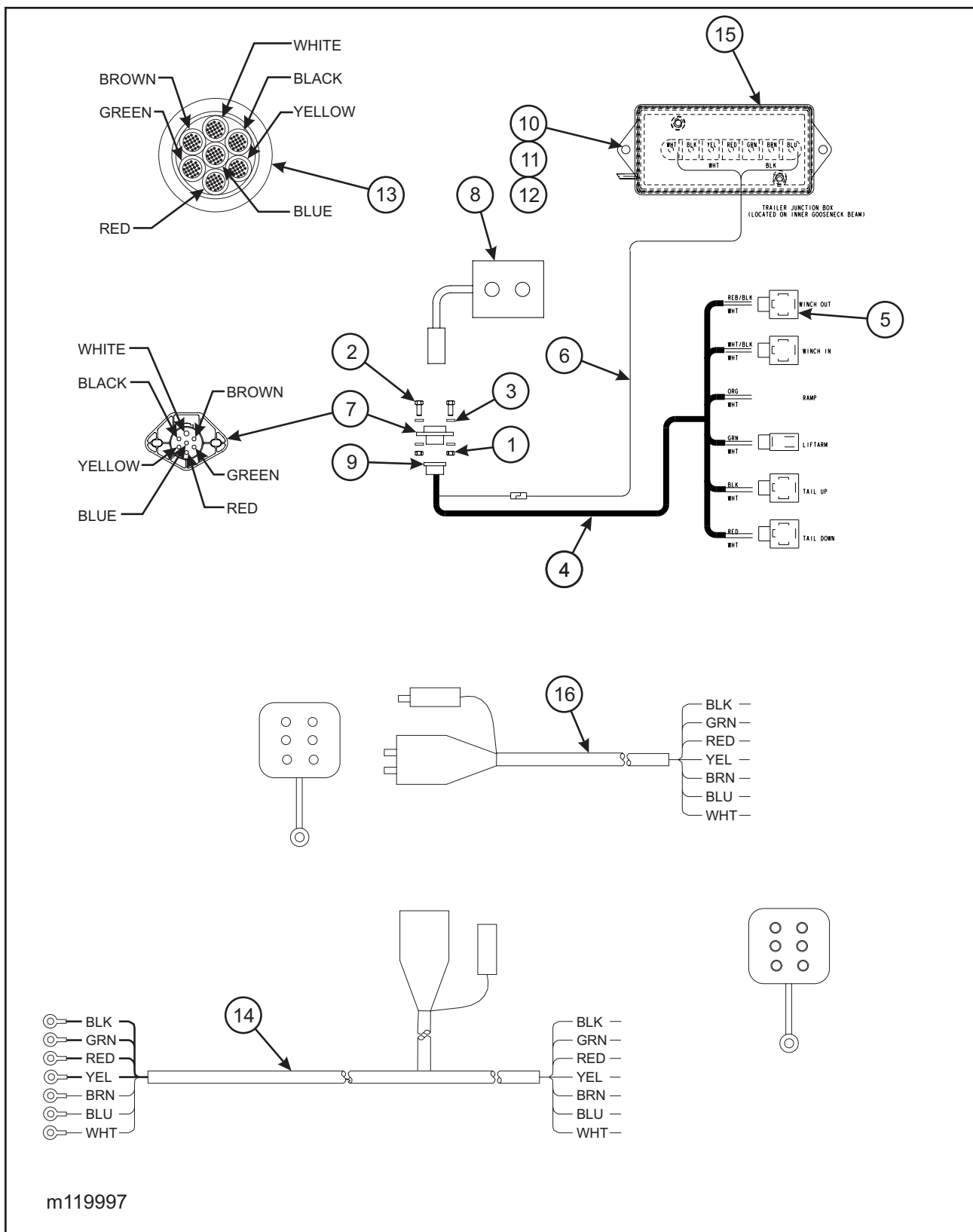


Figure 1-41 Wired Remote Control Items

WIRED REMOTE CONTROL ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.			
	119997	REMOTE CONTROL - WN	1			
	119232	REMOTE CONTROL - WN/AXLE		1		
	122614	REMOTE CNTRL - RR OUTLET STR/CRB			1	
	112833	CURB SIDE REMOTE OUTLET				1
1	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2	2	2	-
	1-512-010007-06	NUT, HEX 5/16-18	-	-	-	2
2	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18X1-1/4 GR5	2	2	2	2
3	1-861-010032-09	WASHER FLAT 5/16W	4	4	4	4
	1-861-010034-10	WASHER, SPLIT LOCK 5/16	-	-	-	2
4	113667	HARNESS, REMOTE CONTROL	1	1	-	-
5	114546	STRAIN RELIEF	2	4	-	-
6	119233	HARNESS, POWER JUMPER REMOTES	1	1	-	-
7	3-272-010125	RECEPTACLE 7-PIN	1	1	1	1
8	3-765-010001	CONTRL REMOTE WINCH	1	-	-	-
	3-209-010004-03	CNTRL RMT WINCH U/C (SEE PAGE 1-83)	-	1	-	-
9	59W-2-3	RUBBER BOOT	1	1	1	1
10	1-512-010005-01	NUT HEX LOCK 1/4- 20 GRB	-	-	2	-
11	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	-	-	2	-
12	1-861-010032-07	WASHER FLAT 1/4W	-	-	4	-
13	3-156-010009	CABLE, MULTI CONDUCTOR	-	-	AR	-
14	3-368-010201	HARNESS, REAR REMOTE	-	-	1	-
15	750-029	JUNCTION BOX 7-STUD	-	-	1	-
16	3-368-010191	HARNESS, REAR CURB SIDE	-	-	-	1

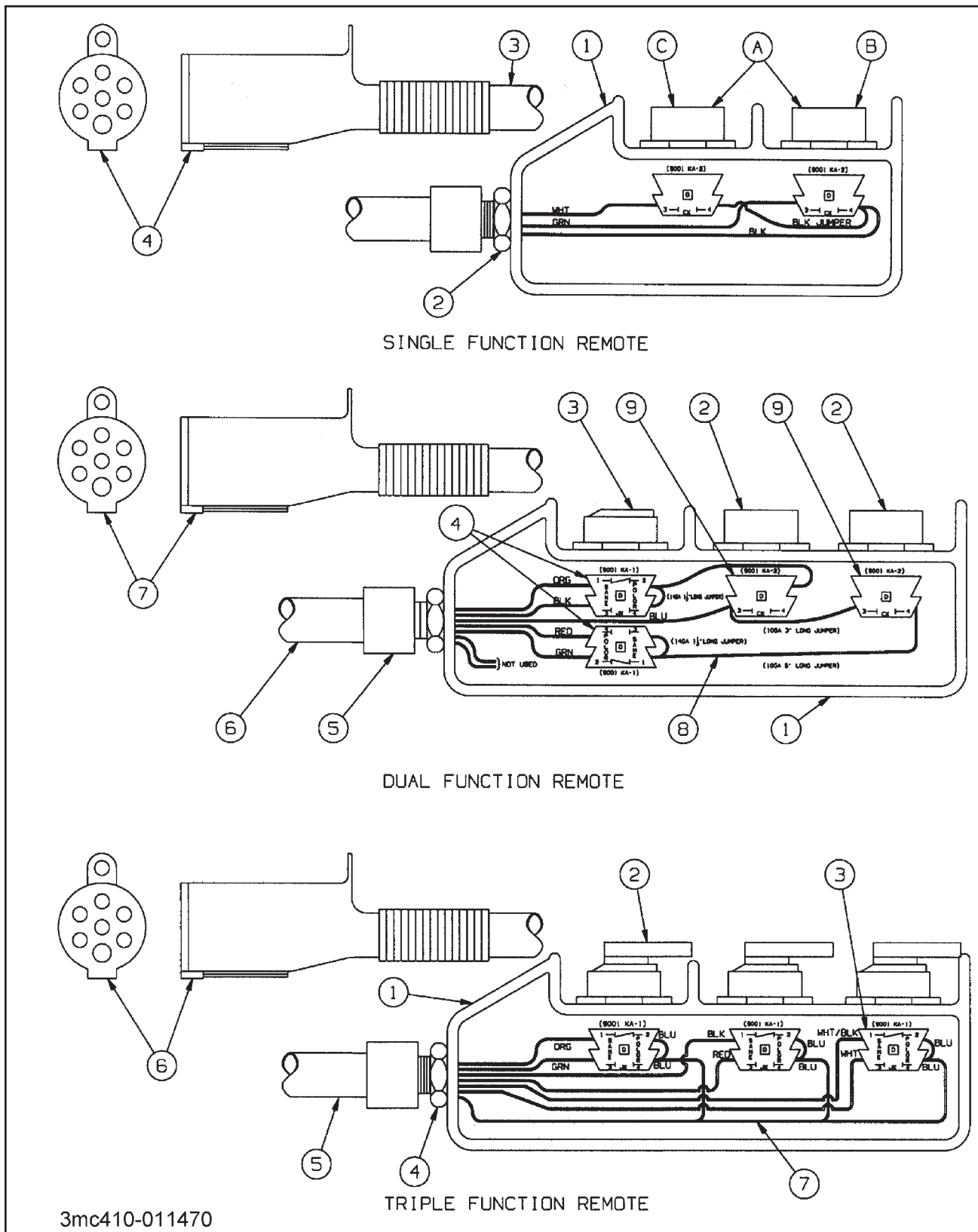


Figure 1-42 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE

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

WIRED REMOTE CONTROL, DUAL

ITEM	PART NO.	DESCRIPTION	QTY.
1	3-209-010004	CONTROL ELECT DUAL FUNC. RMT	
	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010080	ELECTRICAL PUSH BUTTON UNITS	2
	106069	SHORT RING NUT FOR BUTTON	2
3	3-272-010079	ELECTRICAL CONTACT OPERATOR	1
4	3-272-010078	ELECTRICAL CONTACT BLOCK	2
5	106-0079	CONNECTOR 1/2 CORD T&B 2522	1
6	3-156-010043	CABLE 16AWG X 7 CONDUCTOR	50
7	59P8	TRAILER CONN PLUG	1
8	1-879-010011	WIRE BLACK 14AWG	2
9	3-272-010095	ELECTRICAL CONTACT BLOCK	2
10	3-573-010296	DECAL, WINCH TILT	1
	3-573-010391	DECAL, REMOTE WINCH TENSION	1
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE (DECALS NOT SHOWN) (SEE PAGE 1-87)	1

WIRED REMOTE CONTROL, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
1	3-209-010006	CONTROL ELECT TRIPLE FUNC. RMT	
	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010121	ELECT. CONT. OPER. 3 WAY	3
	106068	TALL RING NUT FOR BUTTON	2
3	3-272-010078	ELECTRICAL CONTACT BLOCK	3
4	106-0079	CONNECTOR 1/2 CORD T&B 2522	1
5	3-156-010043	CABLE 16AWG X 7 CONDUCTOR	50
6	59P8	TRAILER CONN PLUG	1
7	1-879-010008	WIRE BLUE 14AWG	2
8	109268	DECAL, WINCH UNDERCARRIAGE TENSION	1
	109269	DECAL, WINCH UNDERCARRIAGE DOCK LIFT ARM (DECALS NOT SHOWN) (SEE PAGE 1-87)	1

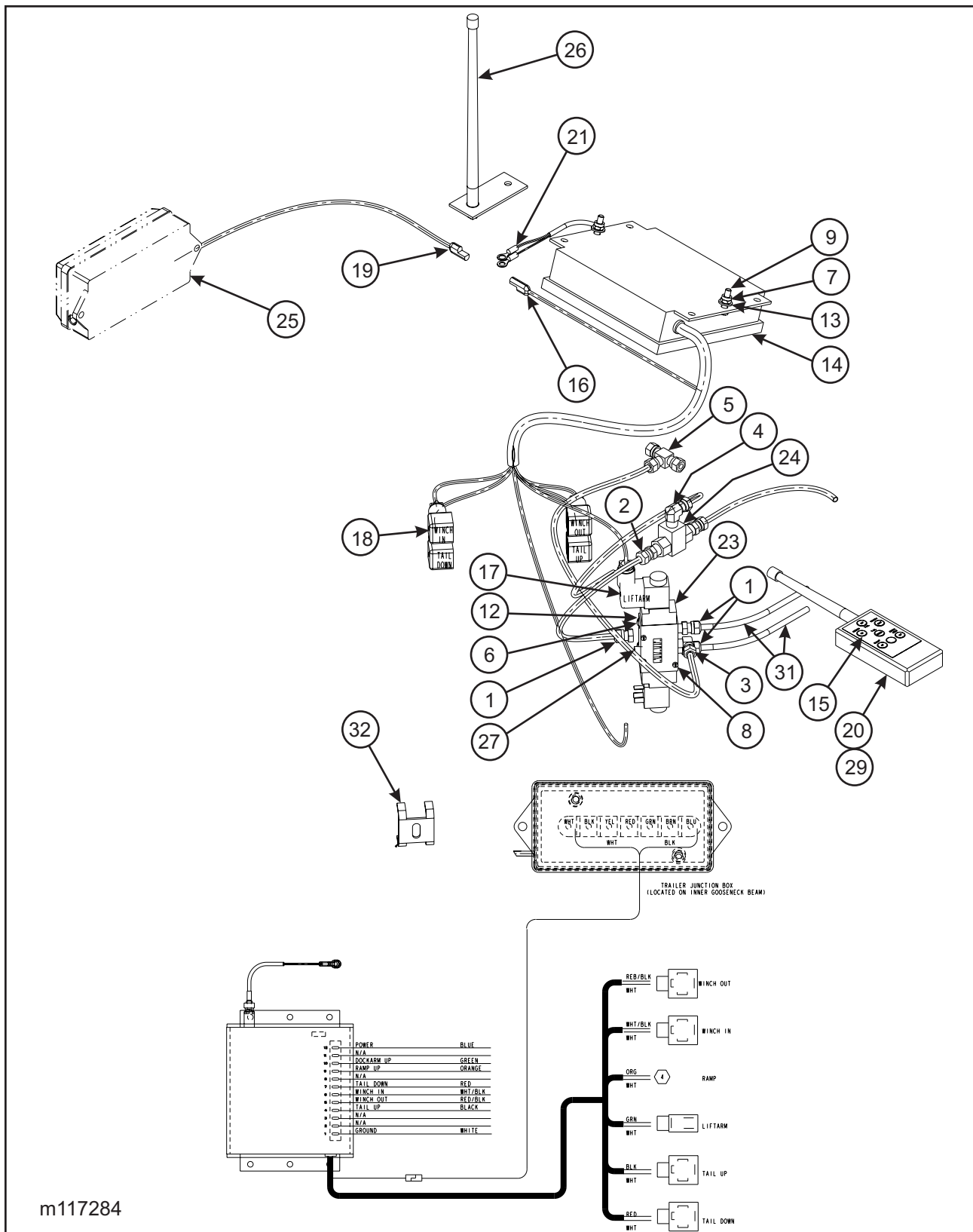


Figure 1-43 Wireless Remote Control

WIRELESS REMOTE CONTROL WN/UC/DL

ITEM	PART NO.	DESCRIPTION	QTY.
	117284	WIRELESS REMOTE CONTROL WN/UC/DL	
	117285	WIRELESS REMOTE CONTROL WN/U/L/R	
1	1-297-010007-04	FITTING, AIR	*3,4
2	1-297-010007-05	FITTING, AIR	*2,4
3	1-297-010008-05	FITTING, AIR 90	1
4	1-297-010008-07	FITTING, AIR 90	*1,2
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-512-010003-02	NUT, HEX LOCK #6-32	3
7	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
8	1-654-010024014	SCREW, MACH SLOTTED FIL HEAD #6-32 X 1-1/2	3
9	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
10	1-796-010002-01	TIE STRAP PLASTIC	5
12	1-861-010032-01	WASHER, FLAT #6	3
13	1-861-010032-06	WASHER, FLAT 1/4N	2
14	112691	TRANSMITTER CONTROL RADIO REMOTE	1
15	113662	MEMBRANE OVERLAY REMOTE	1
16	113667	HARNESS REMOTE CONTROL	1
17	113668	STRAIN RELIEF	*1,2
18	114546	STRAIN RELIEF	4
19	119233	HARNESS POWER JUMPER REMOTES	1
20	119626	TRANSMITTER RADIO REMOTE	1
21	123126	CABLE, REMOTE ANTENNA 15FT	1
23	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	1
24	3-843-010039-02	VALVE, AIR SHUTTLE	*1,2
25	750-029	JUNCTION BOX 7 STUD	REF
26	A001	ANTENNA RADIO REMOTE	1
27	1-560-010002-01	PLUG, PIPE 1/8	1
29	112948	BATTERY, 9-VOLT	1
30	121352	MOUNT ANTENNA RADIO REMOTE	1
31	1-833-010001	TUBING, NYLON 1/4	AR
32	138814	HOSE CLAMP NOTCHED	1

* 1ST QUANTITY USED ON P/N 117284; 2ND QUANTITY USED ON P/N 117285



LANDOLL®

930

950

⚠ WARNING

A MINIMUM OF 5 WRAPS OF CABLE MUST BE LEFT ON DRUM.

3-573-010299



TORQUE SPECIFICATIONS FOR PILOT MOUNTED DISC WHEELS

⚠ DANGER

1. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

2. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

3. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

4. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

5. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

6. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a land capacity in excess of the rated capacity of the tractor.

7. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

8. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

9. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

10. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

11. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

12. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

13. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

14. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

15. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

16. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

17. Do not use the tractor to tow a trailer with a load capacity in excess of the rated capacity of the tractor. Exceeding the rated capacity may result in a loss of control, a rollover, or a crash. The tractor is not designed to tow a trailer with a load capacity in excess of the rated capacity of the tractor.

⚠ DANGER

To prevent serious injury or death from pinching:

- Keep all persons and objects clear while any part of this machine is in motion.

SW205

⚠ CAUTION

MAXIMUM CONCENTRATED LOAD IN A 10 FT. AREA 50,000 LBS.

3-573-010349

⚠ CAUTION

MAXIMUM CONCENTRATED LOAD IN A 10 FT. AREA 70,000 LBS.

3-573-010085

B



IMPORTANT

CONNECT FEMALE HYDRAULIC COUPLER FROM TRACTOR WET KIT OR ENGINE PACKAGE TO MALE HYDRAULIC COUPLER AT FRONT OF TRAILER FIRST TO RELIEVE PRESSURE IN TRAILER LINES.

105822

Figure 1-44 Decals

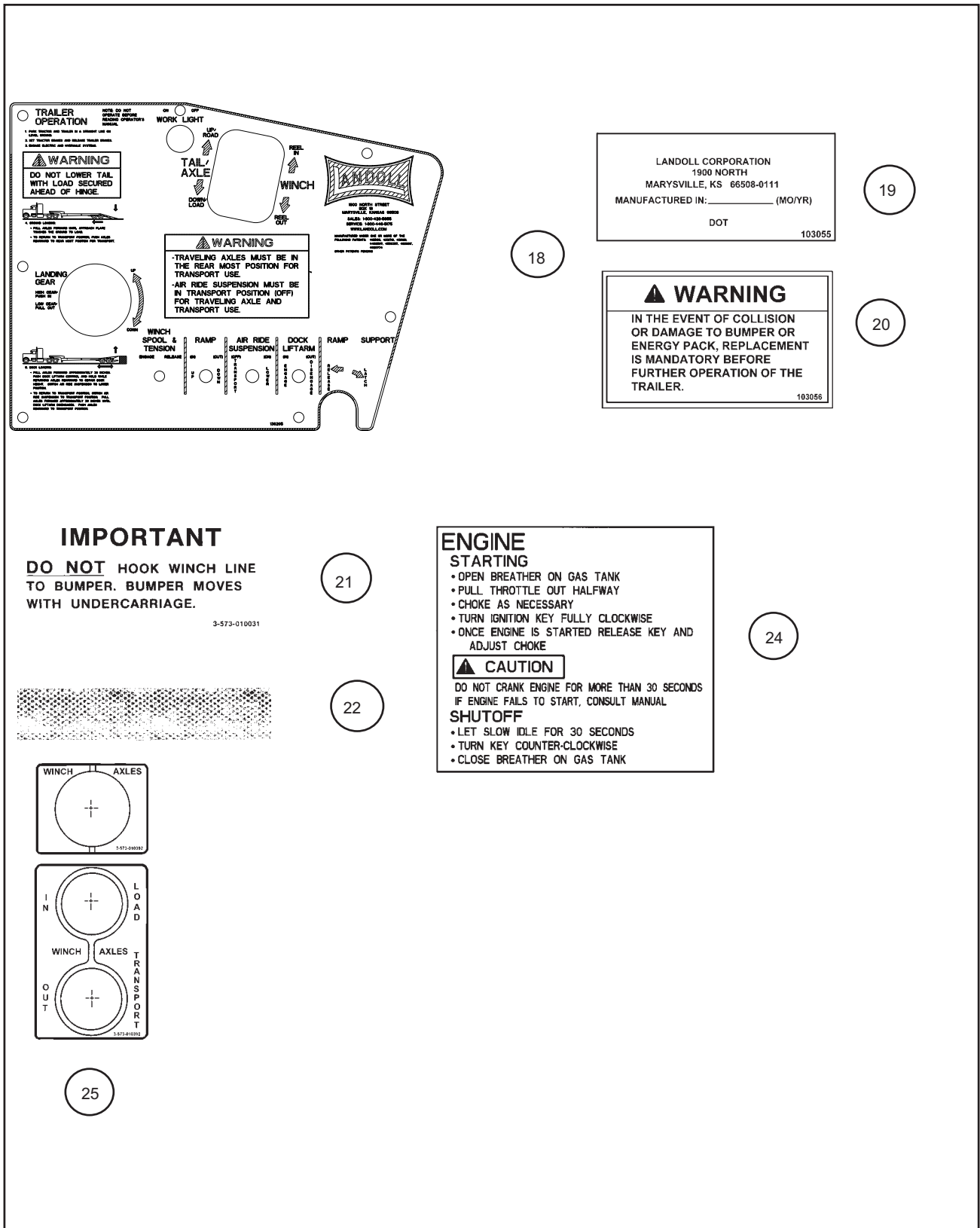
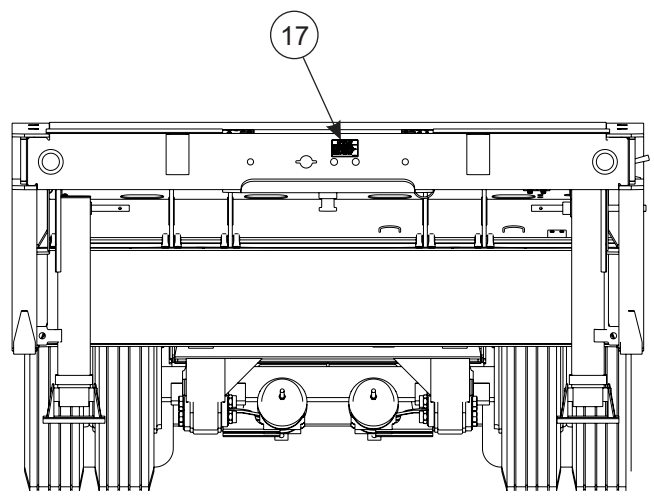
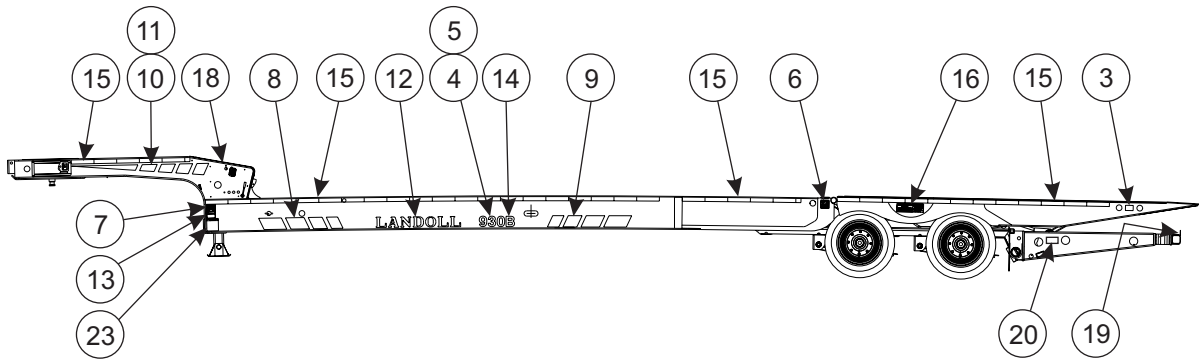
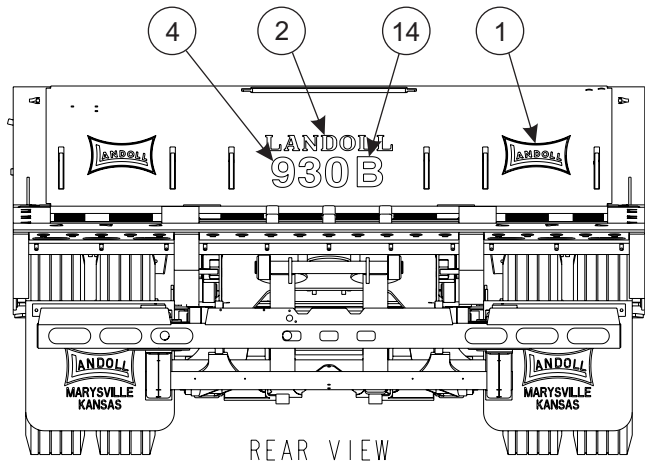


Figure 1-45 Decals



FRONT VIEW



REAR VIEW

M136219

Figure 1-46 Decal Placement

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	136206	DECAL INST 930B BLACK ON LIGHT 50K	
	136207	DECAL INST 930B WHITE ON DARK 50K	
	136265	DECAL INST 950B BLACK ON LIGHT 70K	
	136266	DECAL INST 950B WHITE ON DARK 70K	
1	1-573-010476	DECAL, BOW-TIE (BLACK)	2
	1-573-010480	DECAL, BOW-TIE (WHITE)	2
2	1-573-010477	DECAL, LANDOLL 2-7/16" (BLACK)	1
	1-573-010481	DECAL, LANDOLL 2-7/16" (WHITE)	1
3	101855	DECAL, ABS	REF
4	108507	DECAL, 930 5" (BLACK)	3
	108506	DECAL, 930 5" (WHITE)	3
5	109403	DECAL, 950 5" (BLACK)	3
	109402	DECAL, 950 5" (WHITE)	3
6	2-573-010335	DECAL, DANGER PINCH	2
7	3-573-010299	DECAL, WARNING WINCH CABLE	1
8	3-573-010040	DECAL, FRONT STRIPE (LEFT BLACK)	2
	3-573-010042	DECAL, FRONT STRIPE (LEFT WHITE)	2
9	3-573-010041	DECAL, FRONT STRIPE (RIGHT BLACK)	2
	3-573-010043	DECAL, FRONT STRIPE (RIGHT WHITE)	2
10	3-573-010044	DECAL, TAPERED STRIPE (LEFT BLACK)(NOT SHOWN)	1
	3-573-010046	DECAL, TAPERED STRIPE (LEFT WHITE)(NOT SHOWN)	1
11	3-573-010045	DECAL, TAPERED STRIPE (RIGHT BLACK)	1
	3-573-010047	DECAL, TAPERED STRIPE (RIGHT WHITE)	1
12	3-573-010048	DECAL, LANDOLL 5" BLACK	2
	3-573-010049	DECAL, LANDOLL 5" WHITE	2
13	3-573-010349	DECAL, CAUTION 50,000#/10FT (TANDEM)	2
	3-573-010085	DECAL, CAUTION 70000#/10FT (TRIPLE)	2
14	114571	DECAL, B 5" (BLACK)	3
	114570	DECAL, B 5" (WHITE)	3
15	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	AR
16	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	REF
17	105822	DECAL, HYD COUPLER	REF
18	136205	PLACARD, CONTROL PANEL	1
19	103055	DECAL, ENERGY CERT.	1
20	103056	DECAL, ENERGY BUMPER WARNING	1
21	3-573-010031	DECAL, BUMPER	1
22	3-573-010378	DECAL, 2" REFL. TAPE WHITE (SEE PAGE 1-9 FOR LOCATION)	AR
23	100600	DECAL, WARNING WINCH (BRADEN ONLY) (NOT SHOWN)	REF
24	113388	DECAL, ENG PACKAGE INST (SEE PAGE 1-100 FOR LOCATION)	1
25	3-573-010392	DECAL, REMOTE WINCH/UNDERCARRIAGE (NOT SHOWN)	REF

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

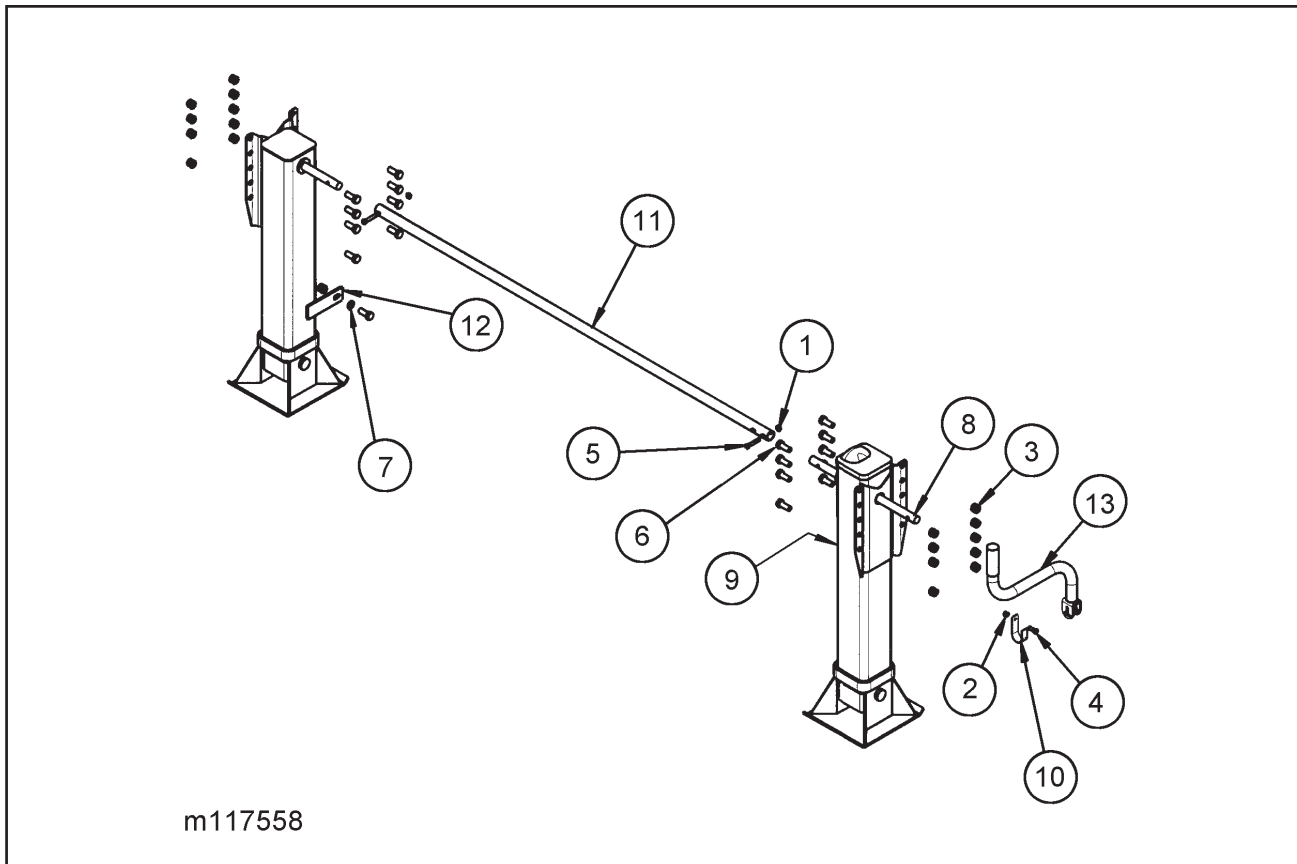


Figure 1-47 Landing Gear

LANDING GEAR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	117558	LANDING GEAR INSTALLATION	
1	1-510-010003-05	NUT, FLANGE HD SERR 3/8-16	2
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
5	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	2
6	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	20
7	1-861-010032-14	WASHER, FLAT 1/2N	2
8	116800	LANDING GEAR 2 SPEED JOST (SEE PAGE 1-93)	1
9	117554	PLATE, CYL CON LOWER	2
10	117559	CLIP, LANDING GEAR HANDLE	1
11	117561	CROSS-SHAFT LANDING GEAR	1
12	117563	ANCHOR, LOWER BOLT-ON PARK STAND	2
13	119949	HANDLE, CRANK 2 SPEED LANDING GEAR	1

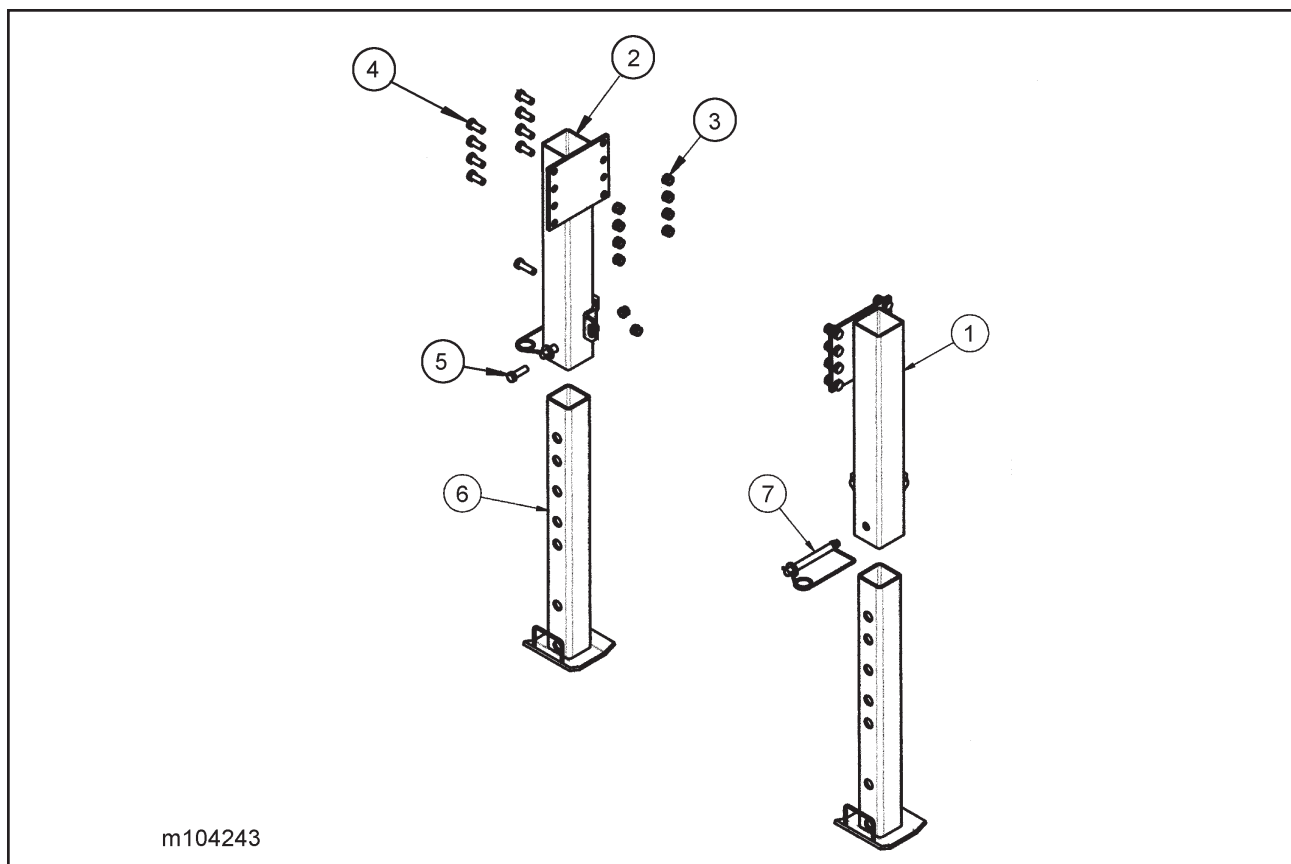


Figure 1-48 Landing Gear Installation - Bolt-on

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

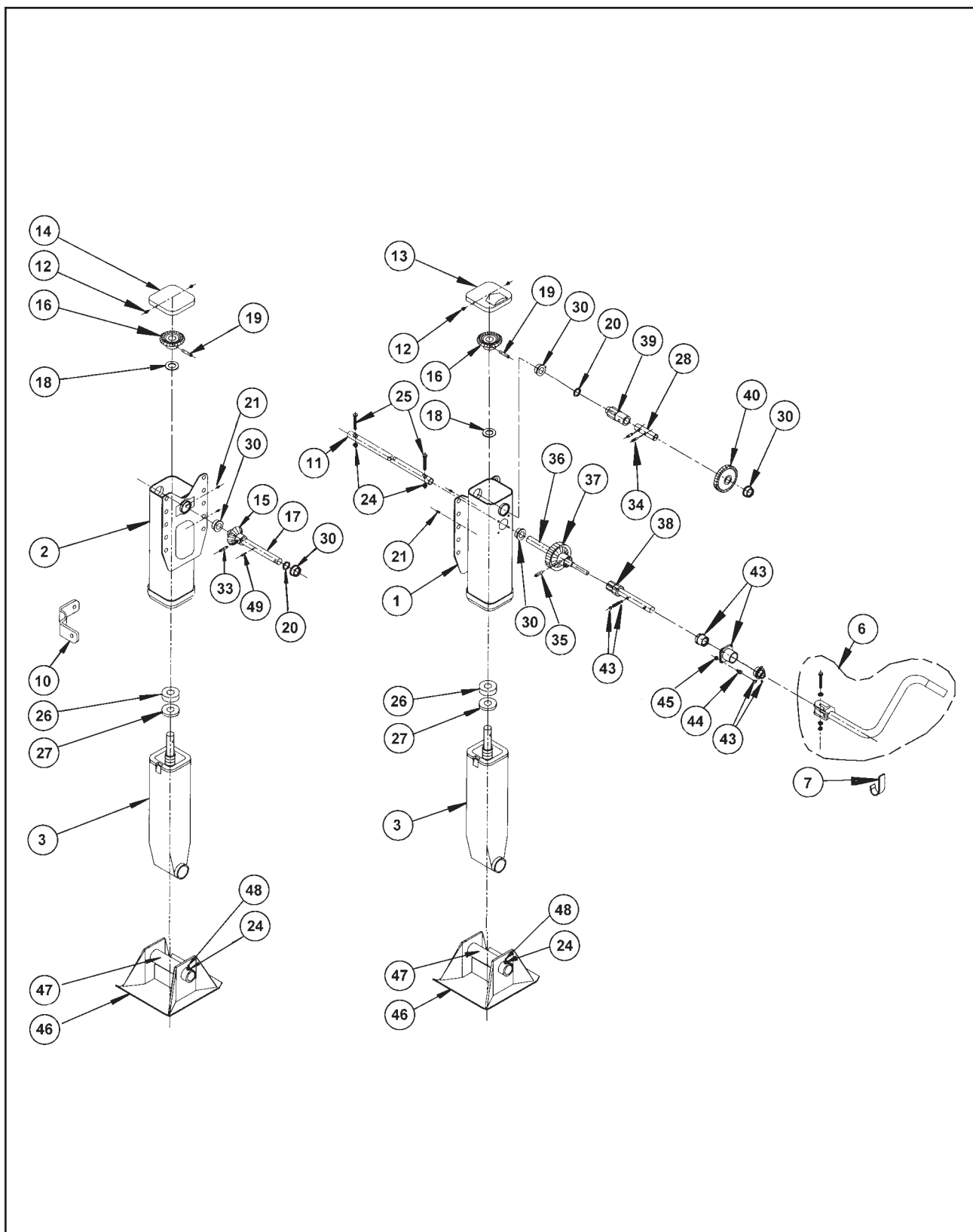


Figure 1-49 Crank Landing Gear

CRANK LANDING GEAR

ITEM	PART NO.	DESCRIPTION	QTY.
	116800	LANDING GEAR (JOST #A401T19)	
1	D10201.3	OUTER HOUSING - 2 SPEED	1
2	D10116.3	OUTER HOUSING - 1 SPEED	1
3	C10140.3	INNER LEG ASSEMBLY - STANDARD	2
6	109161	CRANK 930 MODIFICATION	1
7	109711	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

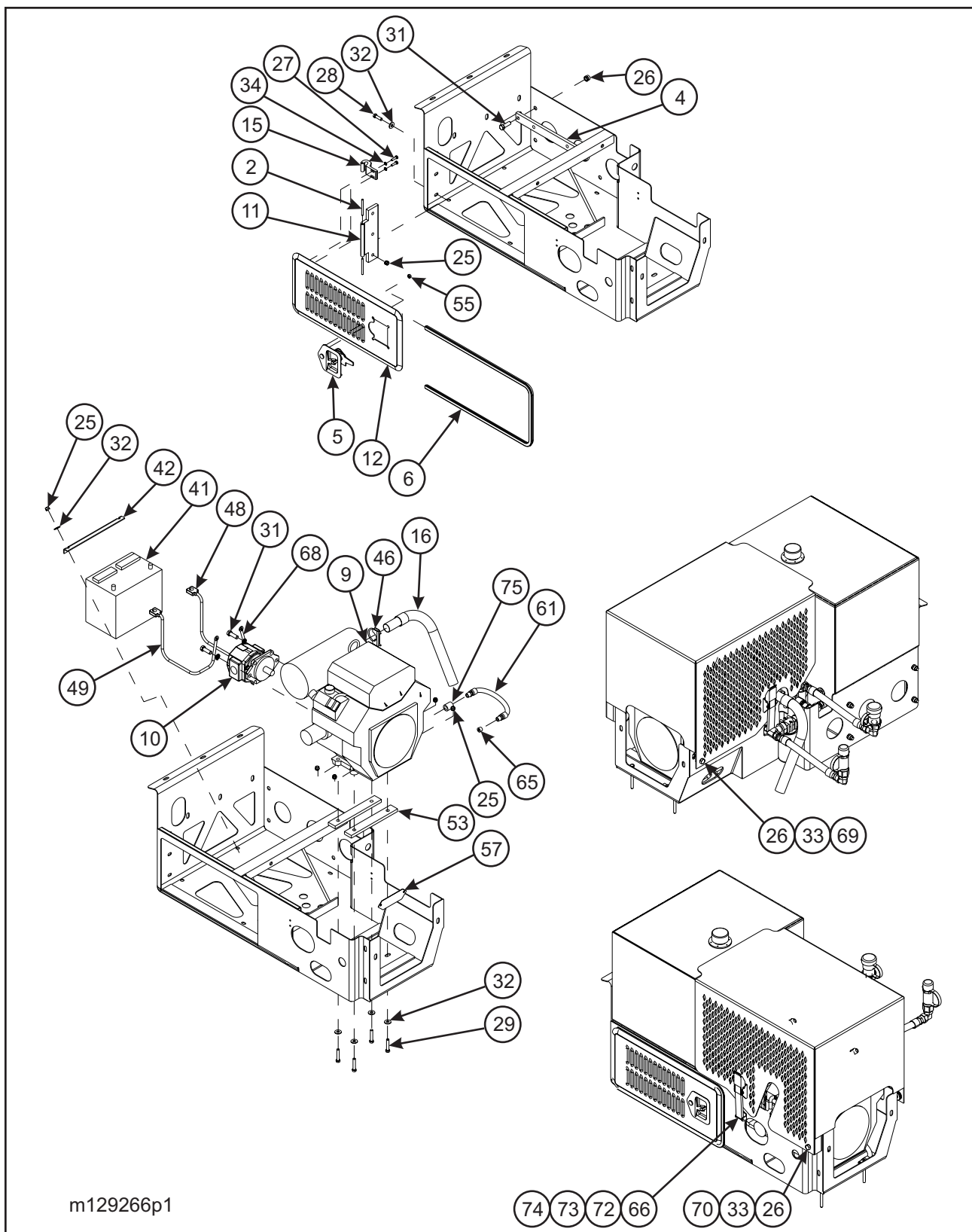


Figure 1-50 Hydraulic Engine, 27HP Upper Deck (1 of 2)

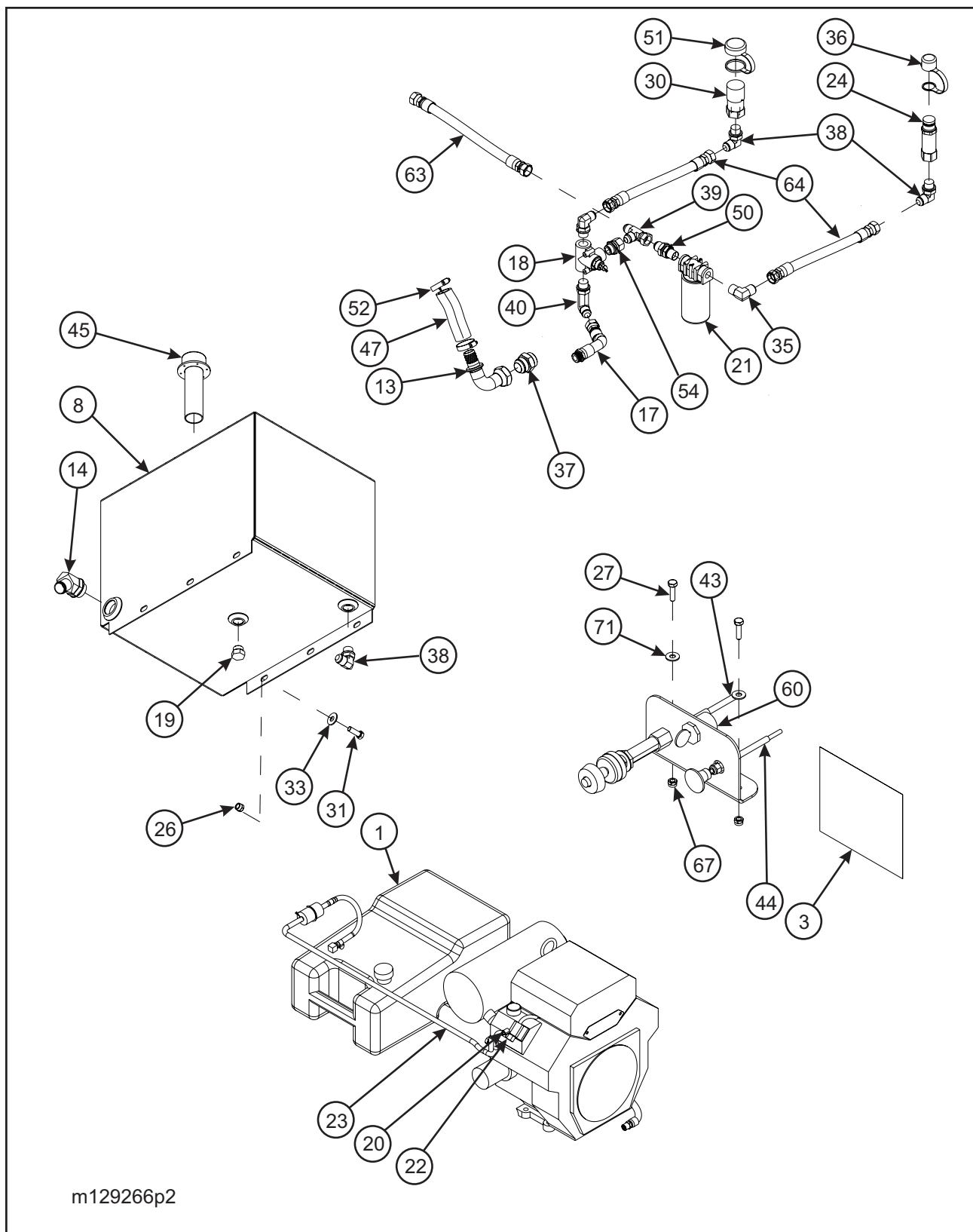


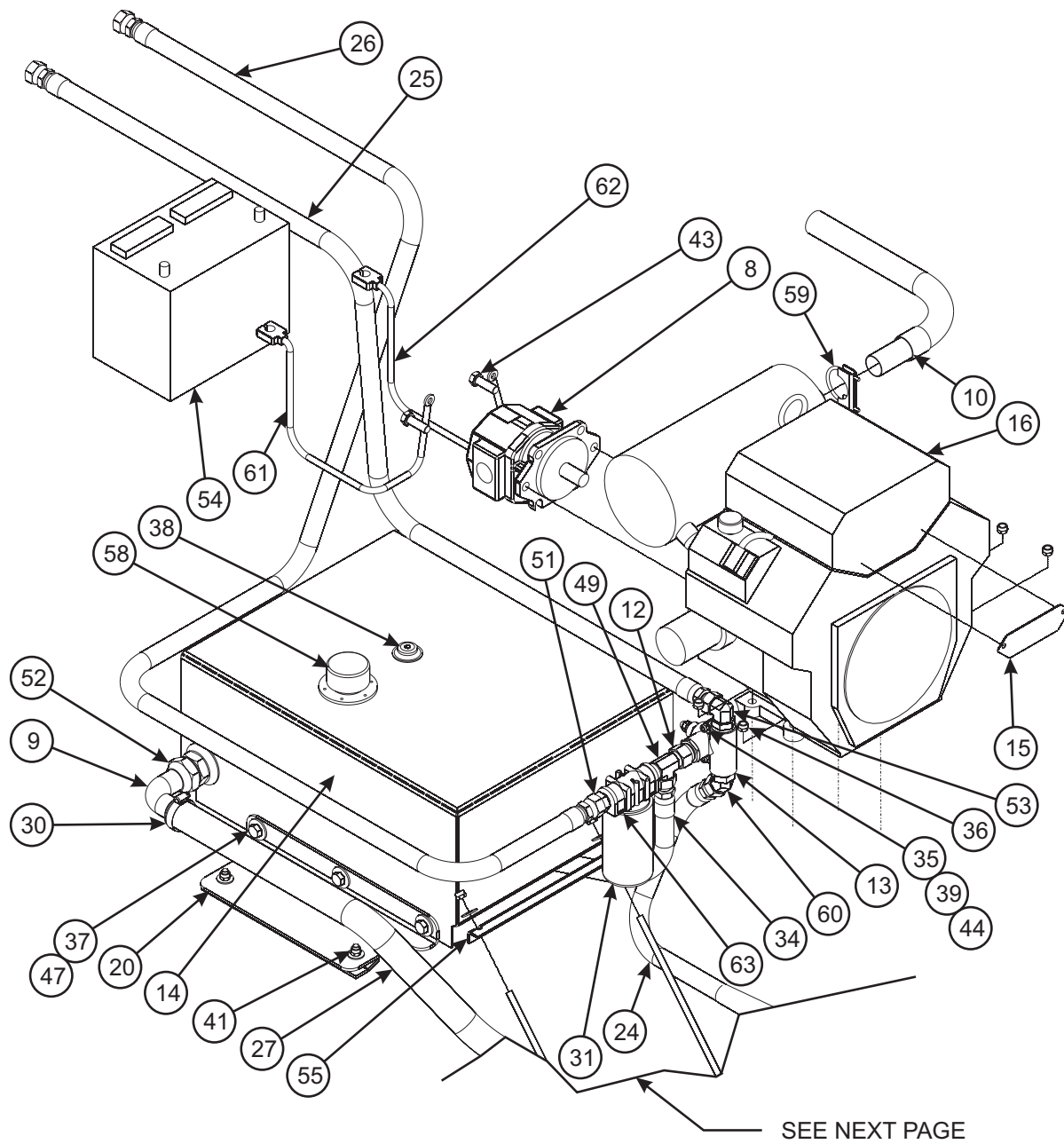
Figure 1-51 Hydraulic Engine, 27HP Upper Deck (2 of 2)

HYDRAULIC ENGINE 27HP UPPER DECK

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENGINE PACKAGE GAS 27HP	
1	104699	TANK, FUEL PLASTIC 6.6 GAL	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENG PKG INSTR	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WELDMENT	1
8	129264	HYD TANK WELDMENT, 30 GAL	1
9	127813	ENGINE, KOHLER 27HP PUMP MOUNT	1
10	115888	PUMP, HYDRAULIC .88CID GEAR	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 ENG DRIVE 25HP	2
16	119445	EXHAUST EXT WELDMENT 25HP	1
17	119577	HOSE 3/4 X 9.25	1
18	120661	VALVE, HYD PRESSURE RELIEF	1
19	900598-12S	PLUG	1
20	105-0105	CLAMP HOSE IDEAL 6203	2
21	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
22	1-297-010034-01	FITTING BRASS 90	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	4
24	105479	COUPLER, FLAT FACE MALE NOSE	1
25	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	13
26	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	11
27	1-654-010047-06	SCREW HEX HEAD CAP SP 1/4-20 X 1 GR5	6
28	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	6
30	105480	COUPLER, FLAT FACE FEMALE BODY	1
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
32	1-861-010032-11	WASHER FLAT 3/8	17
33	1-861-010032-15	WASHER FLAT 1/2	13
34	1-861-010034-09	WASHER SPLIT LOCK 1/4	4
35	2024-12-12S	ADAPTER 90 3/4 MPT X 3/4M	1
36	105481	COUPLER, DUST CAP MALE	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER 90	4
39	203102-12-12S	ADAPTER, TEE SWIVEL	1
40	206209-12-12S	ADAPTER, 90	1
41	2481X	BATTERY, 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	3-155-010012	CABLE THROTTLE	1
44	3-155-010025	CABLE UTILITY CHOKE	1
45	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1

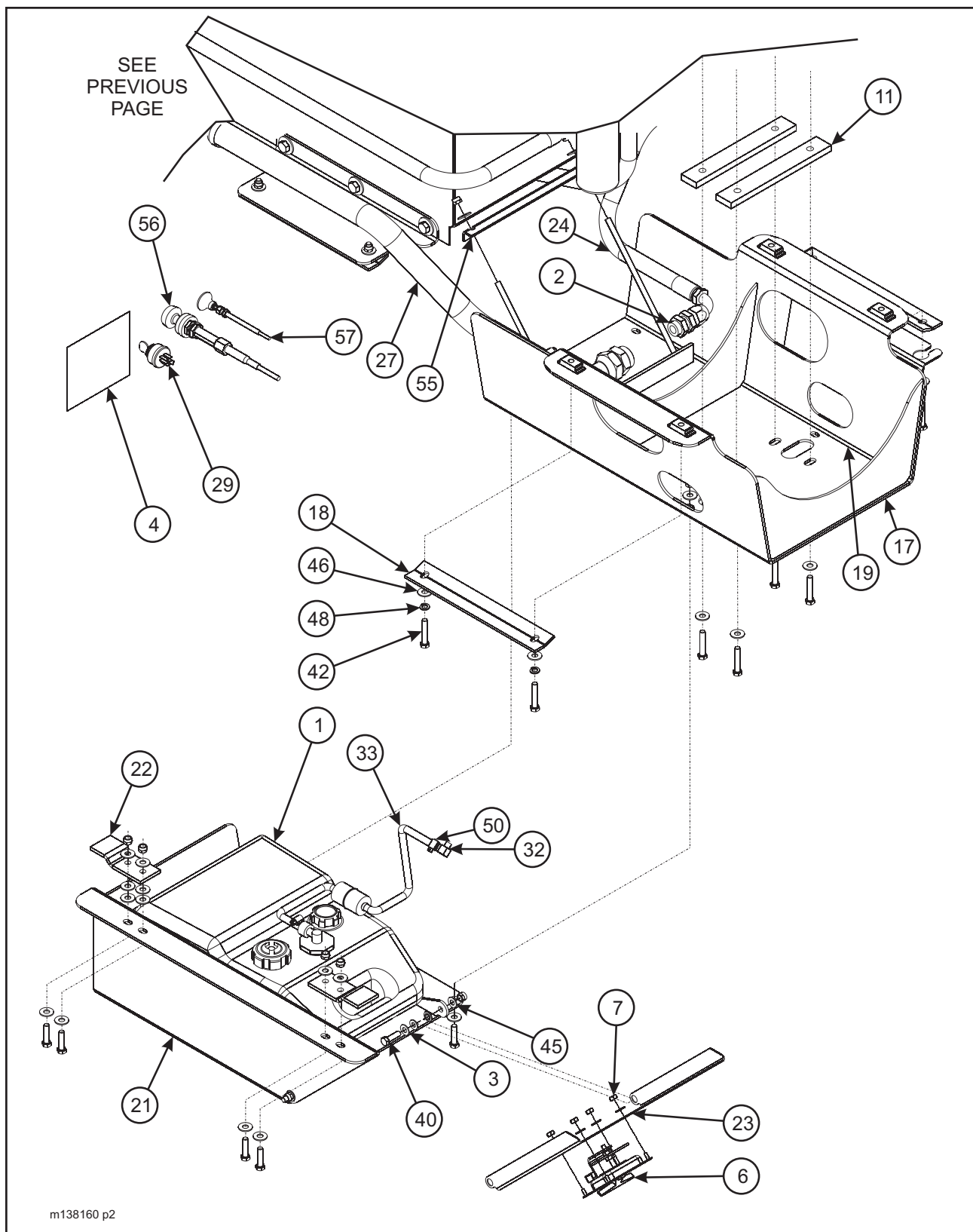
HYDRAULIC ENGINE 27HP UPPER DECK

ITEM	PART NO.	DESCRIPTION	QTY.
47	3-399-010001006	HOSE, SUCTION 1-1/4	1
48	514-9045-26	CABLE ASSEMBLY BATTERY NEGATIVE	1
49	514-9073-18	CABLE ASSEMBLY BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	105482	COUPLER, DUST CAP FEMALE	1
52	1-181-010046-7	HOSE CLAMP	2
53	120659	ISOLATOR, KOHLER 25HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	123014	PLATE, MOTOR FRONT, 25HP E/P	1
58	113544	HARNESS ENG PKG	1
59	108295	SCREW, HEX HEAD CAP 3/8-16 X 4 GR5	2
60	123167	BRACKET CONTROLS	1
61	1-397-010312032	HOSE ASSEMBLY 3/8 X 32	1
62	129287	COVER WELDMENT U/D ENG PKG 30 GAL	1
63	1-397-010304018	HOSE ASSEMBLY 18	1
64	1-397-010304060	HOSE ASSEMBLY 60	2
65	1-560-010002-03	PLUG PIPE 3/8	1
66	1-512-010004-03	NUT, HEX LOCK 10-24 GRA	8
67	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
68	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
69	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13 x 1-1/4 GR 5	1
70	1-654-010055-09	SCREW HEX HEAD CAP 1/2-13 x 3 GR 5	1
71	1-861-010032-07	WASHER FLAT 1/4W	2
72	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
73	110-0253	WASHER, FLAT 3/16	8
74	3-443-010018	LATCH, FLEXIBLE DRAW, LEVER ASSIST	2
75	3-8P_COUPL	BLACK PIPE COUPLING 3/8	1



m138160 p1

Figure 1-52 Hydraulic Engine, 27HP Slope (1 of 2)

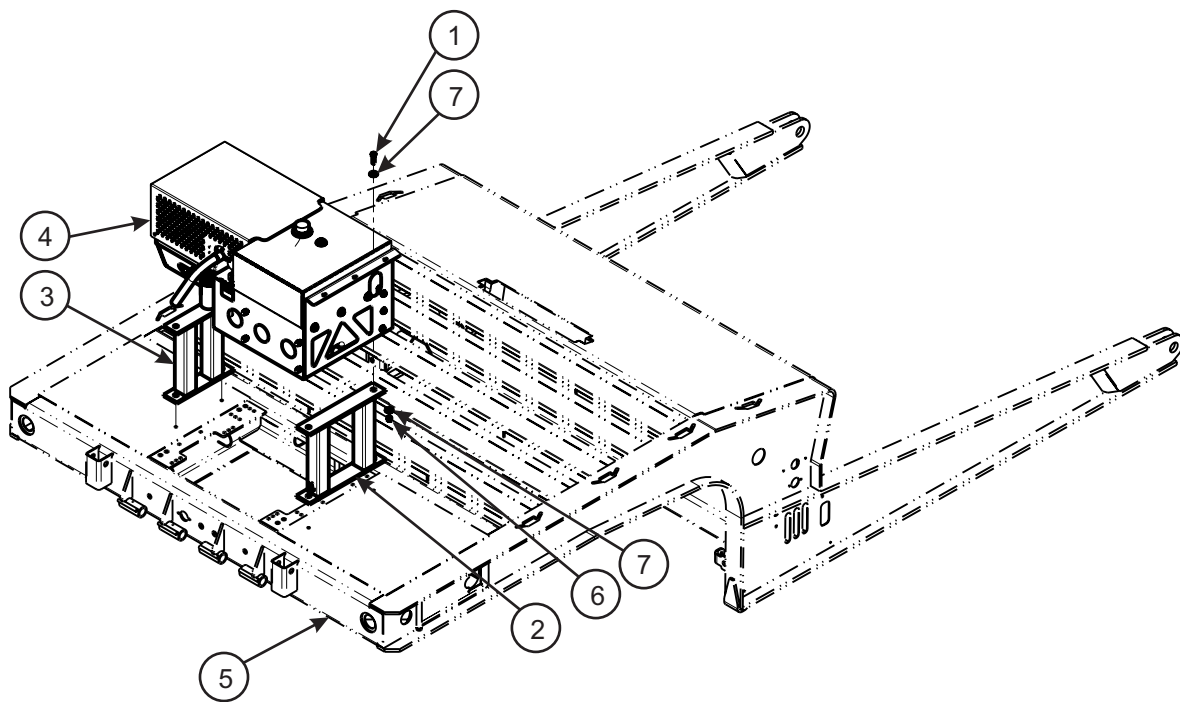


HYDRAULIC ENGINE 27HP SLOPE

ITEM	PART NO.	DESCRIPTION	QTY.
	138160	ENGINE PACKAGE GAS 27HP SLOPE	
1	104699	TANK, FUEL PLASTIC 6.6 GAL	1
2	105483	ADAPTER, BULKHEAD	1
3	112248	NYLON SHOULDER WASHER	4
4	113388	DECAL, ENG PKG INSTR	1
5	113544	HARNESS ENG PKG (NOT SHOWN)	1
6	114814	LATCH, FOLDING T LOCKABLE	1
7	115877	NUT, HEAVY HEX 1/4-20 GR5	4
8	115888	PUMP, HYDRAULIC .88CID GEAR	1
9	116330	FITTING 90	2
10	119445	EXHAUST EXT WELDMENT 25HP	1
11	120659	ISOLATOR, KOHLER 25HP MOUNT	2
12	120660	ADAPTER	1
13	120661	VALVE, HYD PRESSURE RELIEF	1
14	120662	HYDRAULIC TANK WELDMENT 15 GAL E/P	1
15	123014	PLATE, MOTOR FRONT, 25HP E/P	1
16	127813	ENGINE, KOHLER 27HP PUMP MOUNT	1
17	138114	BASE WELDMENT	1
18	138144	CLAMP	3
19	138145	SHIELD	1
20	138146	BRACKET, TANK MOUNT	1
21	138192	TRAY WELDMENT	1
22	138206	MOUNT, TRAY GAS TANK	2
23	138207	DOOR, GAS TANK TRY	1
24	138818	HOSE ASSEMBLY, 3/4 X 24	1
25	139071	HOSE, 3/4 X 72	1
26	139072	HOSE, 3/4 X 105	1
27	139073	HOSE, SUCTION 1-1/4 X 33	1
29	2509904	KOHLER IGNITION SWITCH	REF
30	1-181-010046-7	CLAMP, HOSE	2
31	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
32	1-297-010034-01	FITTING BRASS 90	1
33	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	3
34	1-397-010304025	HOSE ASSEMBLY 3/4 X 25	1
35	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
36	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	16
37	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
38	1-560-010002-04	PLUG PIPE 1/2	1
39	1-654-010047-09	SCREW HEX HEAD CAP SP 1/4-20 X 1-3/4 GR5	2
40	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
41	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
42	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	6
43	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
44	1-861-010032-07	WASHER FLAT 1/4W	6
45	1-861-010032-10	WASHER FLAT 3/8N	4
46	1-861-010032-11	WASHER FLAT 3/8W	30

HYDRAULIC ENGINE 27HP SLOPE

ITEM	PART NO.	DESCRIPTION	QTY.
47	1-861-010032-15	WASHER FLAT 1/2W	12
48	1-861-010034-11	WASHER SPLIT LOCK 3/8	4
49	102-0204	ADAPTER	1
50	105-0105	CLAMP HOSE IDEAL 6203	2
51	2021-12-12S	ADAPTER	1
52	202702-20-20S	ADAPTER	2
53	2062-12-12S	ADAPTER 90	2
54	2481X	BATTERY, 12V	1
55	3-120-010124	BATTERY CLAMP BRACKET	1
56	3-155-010012	CABLE THROTTLE	1
57	3-155-010025	CABLE UTILITY CHOKE	1
58	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
59	3-182-010028	CLAMP, MUFFLER	1
60	40-0667-02	ELBOW, 45	1
61	514-9045-26	CABLE ASSEMBLY BATTERY POSITIVE	1
62	514-9073-18	CABLE ASSEMBLY BATTERY NEGATIVE	1
63	900598-12S	PLUG	1



m131297

Figure 1-54 Engine Package Stand Installation

ENGINE PACKAGE STAND INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	131297	ENGINE PACKAGE STAND INSTALLATION	
1	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	8
2	120479	MOUNT WELDMENT	1
3	124556	MOUNT WELDMENT NARROW	1
4	123166	ENG PACKAGE 27 HP	REF
5	130662	GOOSENECK WELDMENT	REF
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-861-010032-15	WASHER FLAT 1/2W	16

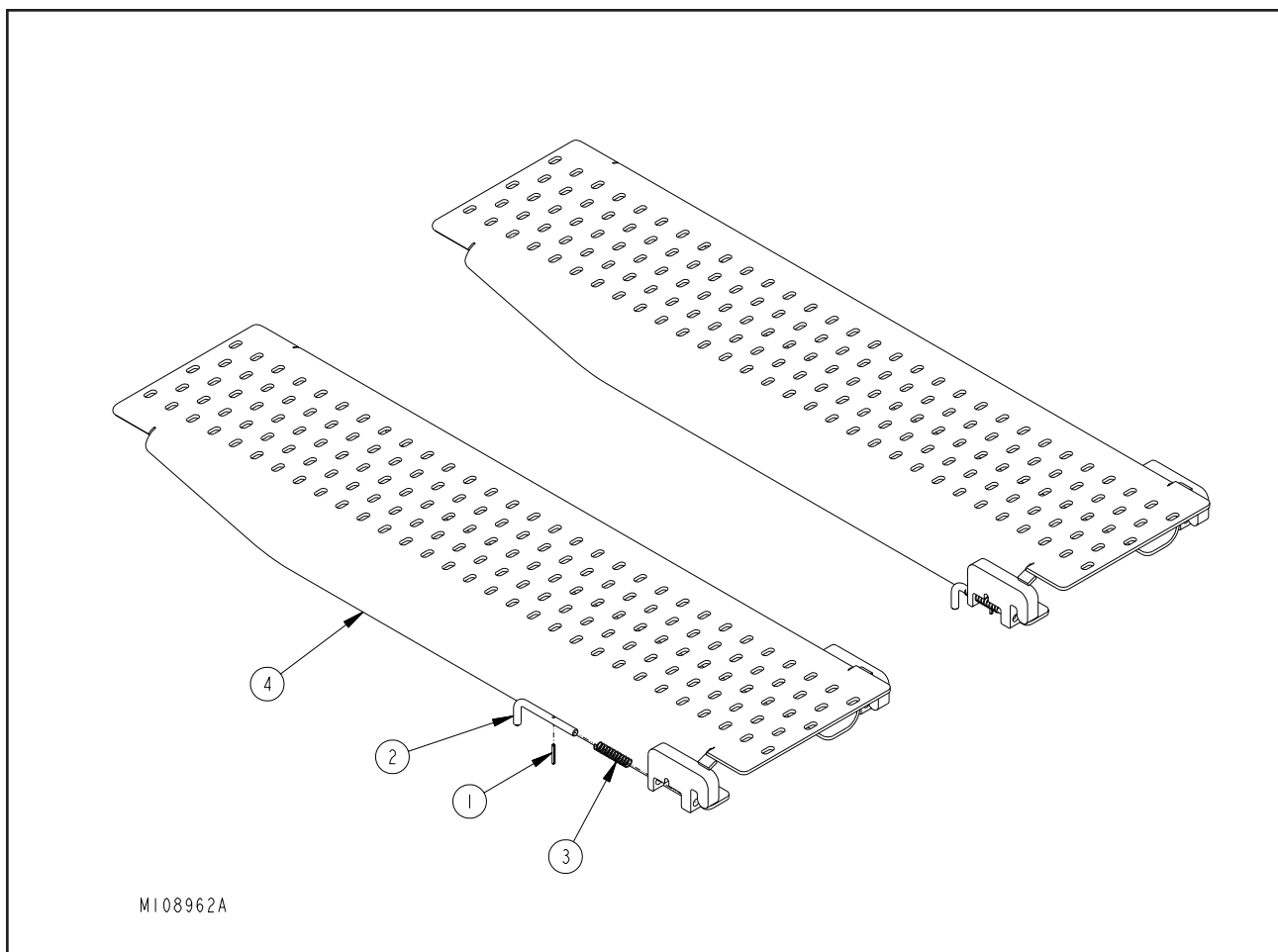


Figure 1-55 Portable Ramp Assembly (Option)

PORTABLE RAMP ASSEMBLY (OPTION)

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

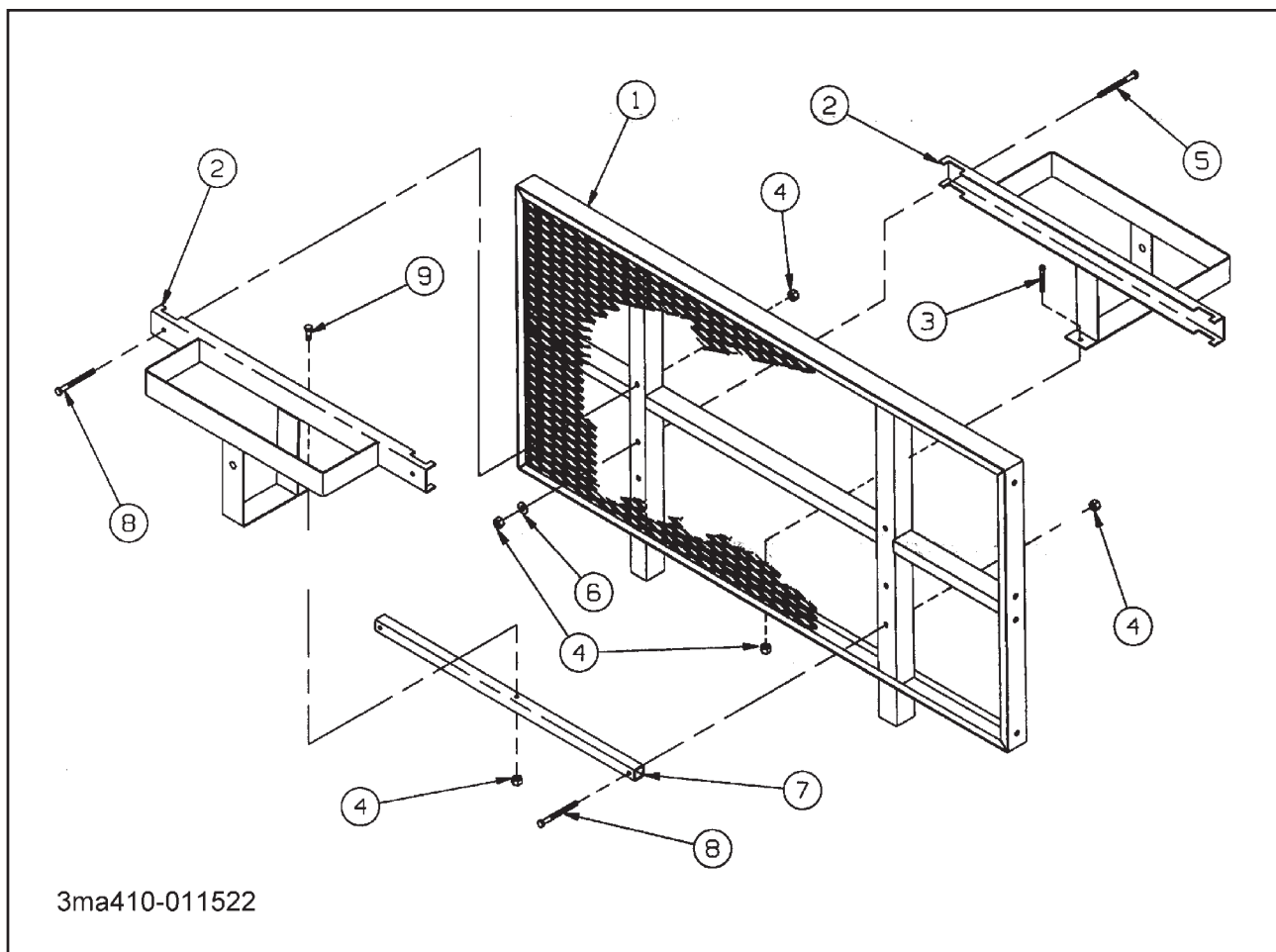


Figure 1-56 Spare Tire Carrier (Option)

SPARE TIRE CARRIER (OPTION)

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

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

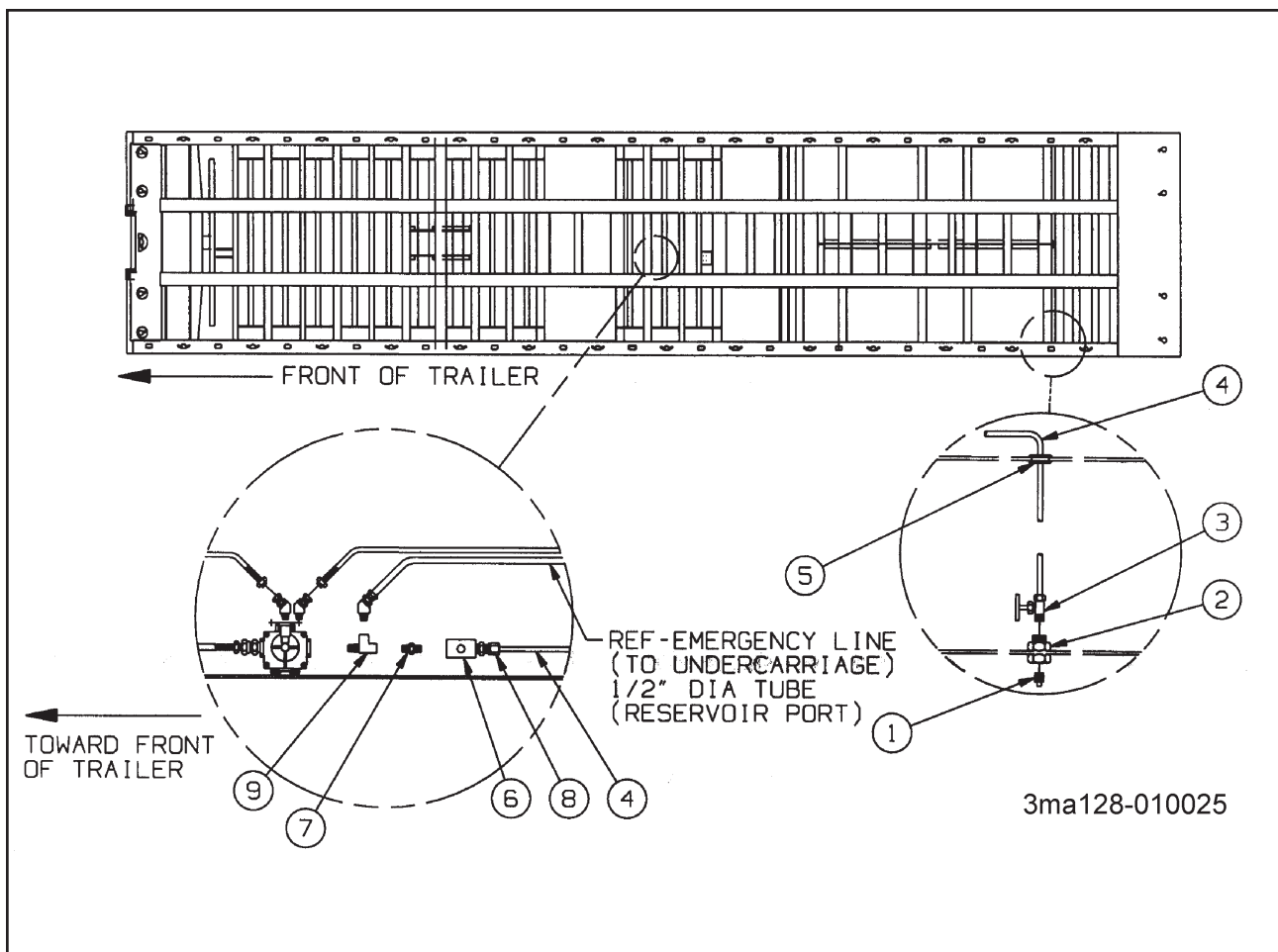


Figure 1-57 Air Outlet Assembly (Option)

AIR OUTLET ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010025	AIR OUTLET ACCESSORY	
1	1-560-010002-02	PLUG PIPE	1
2	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
3	A6760S	SHUT OFF VALVE	1
4	1-833-010002	TUBING NYLON	20
5	1-343-010007	GROMMET	1
6	905-54-107	BRAKE PROTECTION VALVE	1
7	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
8	1-297-010007-11	FITTING AIR	1
9	1-297-010018-04	FITTING AIR	1

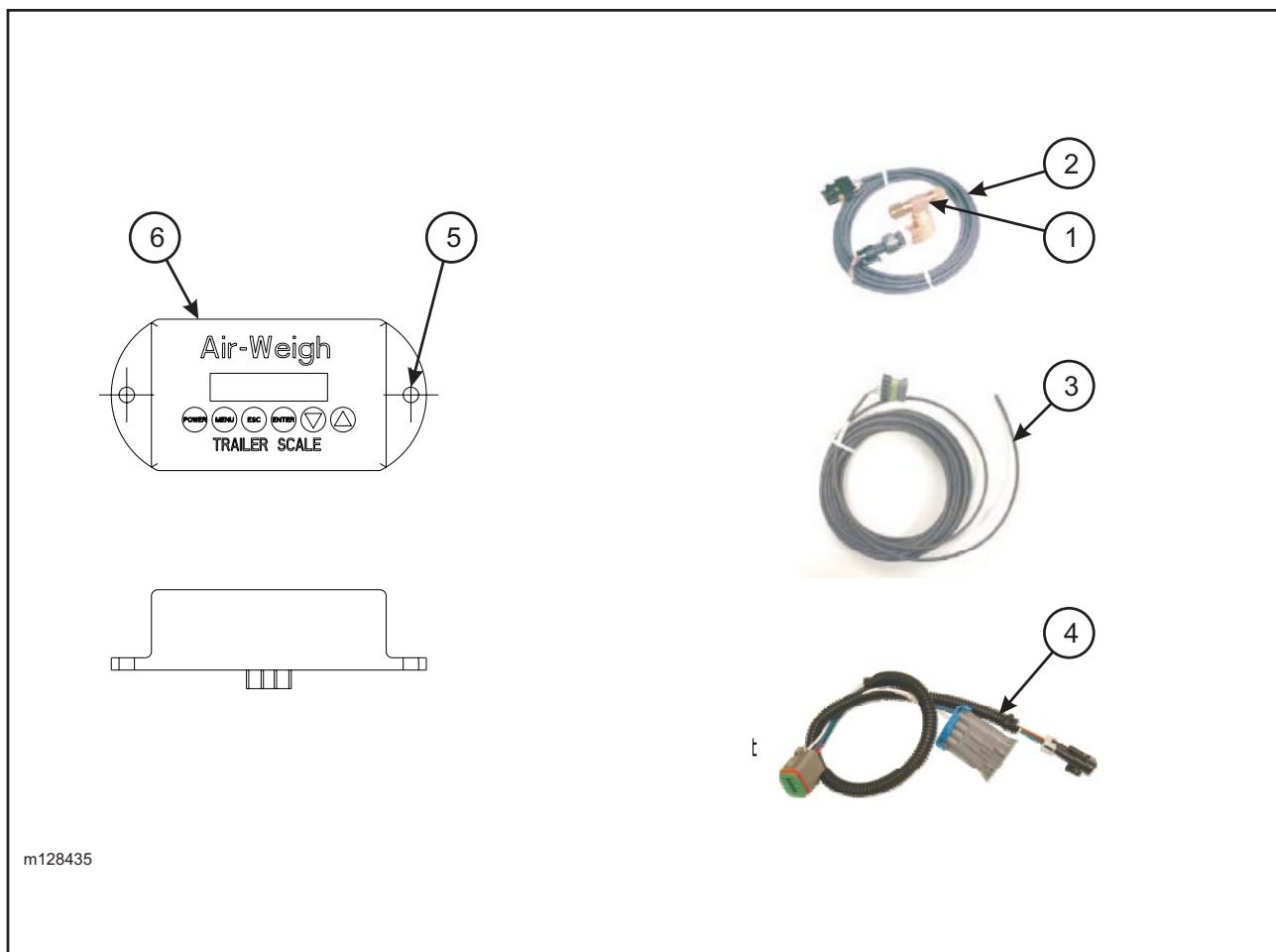


Figure 1-58 Air Digital Scale (Option)

AIR DIGITAL SCALE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128435	SCALE, AIR DIGITAL (TRAVELING AXLE)	
1	149543	SENSOR ASSEMBLY, 5V 3/8" BRASS	1
2	010-0025-000	CABLE, AW5800, 2 PART SENSOR 50'	1
3	012-1500-005	CABLE, AW5800 TRAILER POWER BLUNT CUT 15'	1
4	142895	CABLE, AW5800, TRAILER SCALE INTERFACE 2"	1
5	010-0026-000	HARDWARE KIT, AW 5800	1
6	050-5802-001	TRAILER SCALE AW5800	1
7	145-4552-001	NYLON TIE 7" T-50 NYLON (NOT SHOWN)	25
8	901-0029-001	MANUAL, TRAILER SCALE AW5800 (NOT SHOWN)	1
9	164-0009-000	DECAL, AW5800 TRAILER SIDE-M (NOT SHOWN)	1

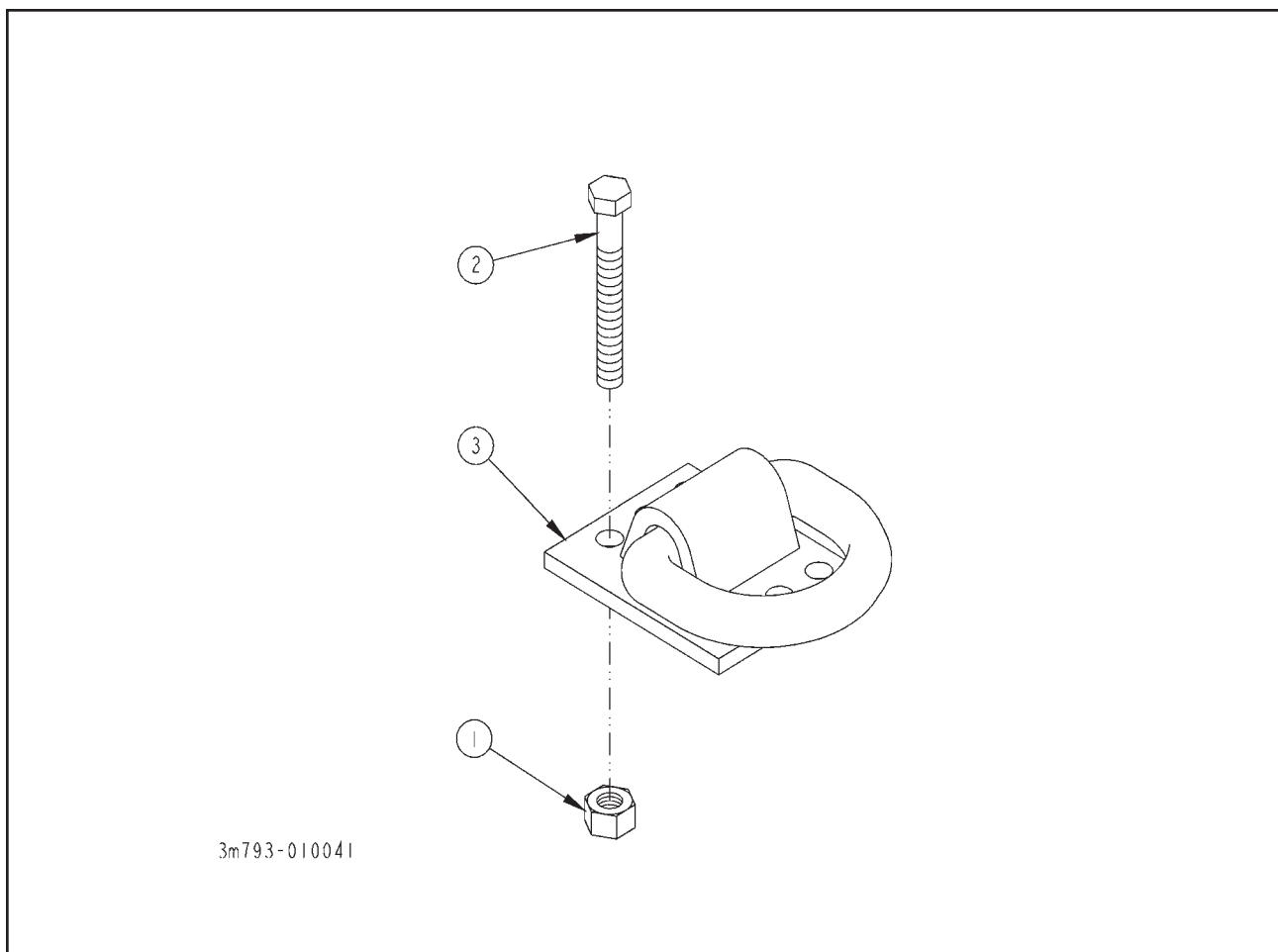


Figure 1-59 D-Ring Installations (Option)

D-RING INSTALLATIONS (OPTION)

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

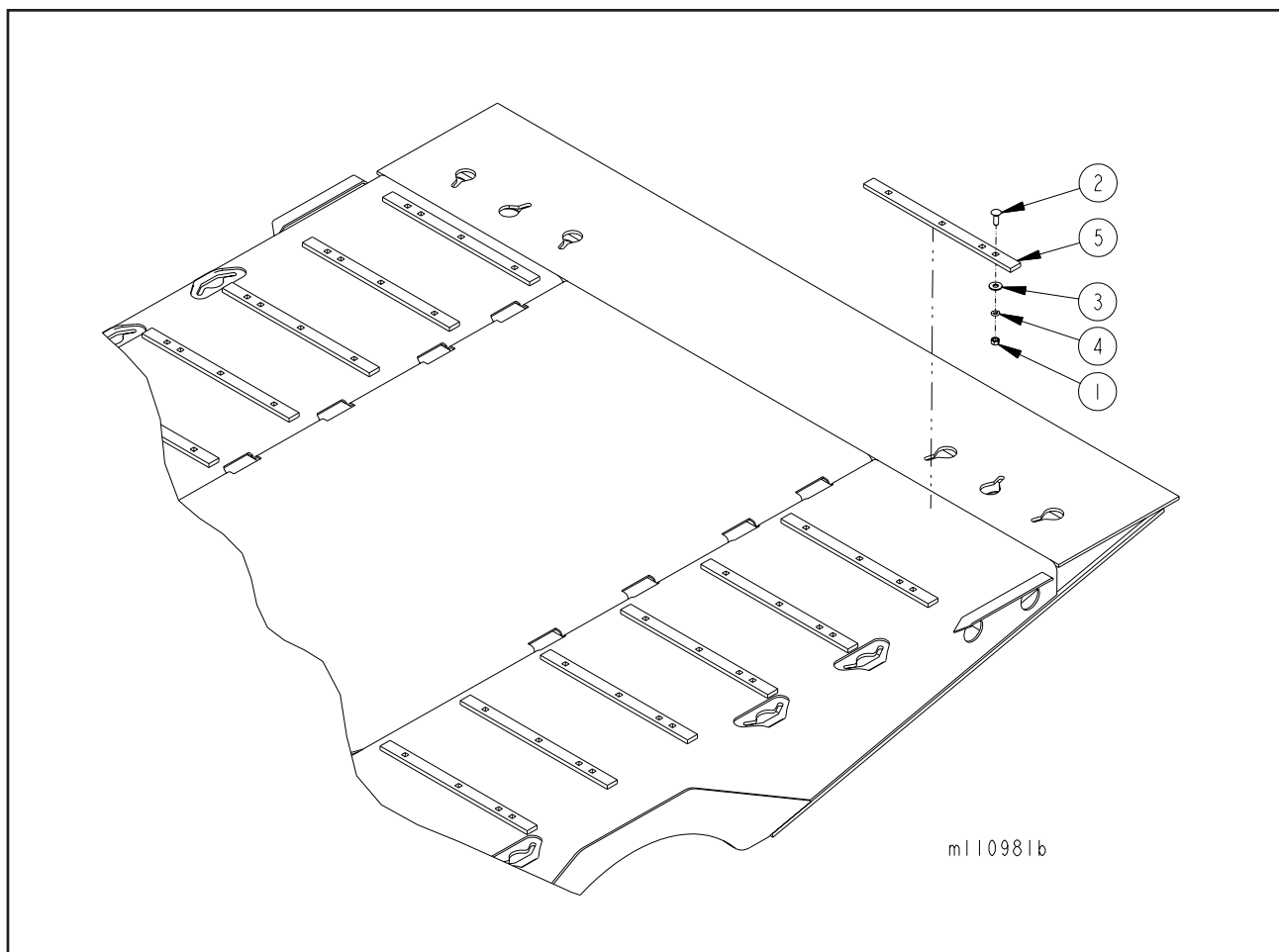


Figure 1-60 Traction Bar Assembly (Option)

TRACTION BAR ASSEMBLY (OPTION)

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

NOTE:

12' TAIL REQUIRES 10 PER SIDE @ 12" CENTERS
 14' TAIL REQUIRES 12 PER SIDE @ 12" CENTERS
 15' TAIL REQUIRES 13 PER SIDE @ 12" CENTERS

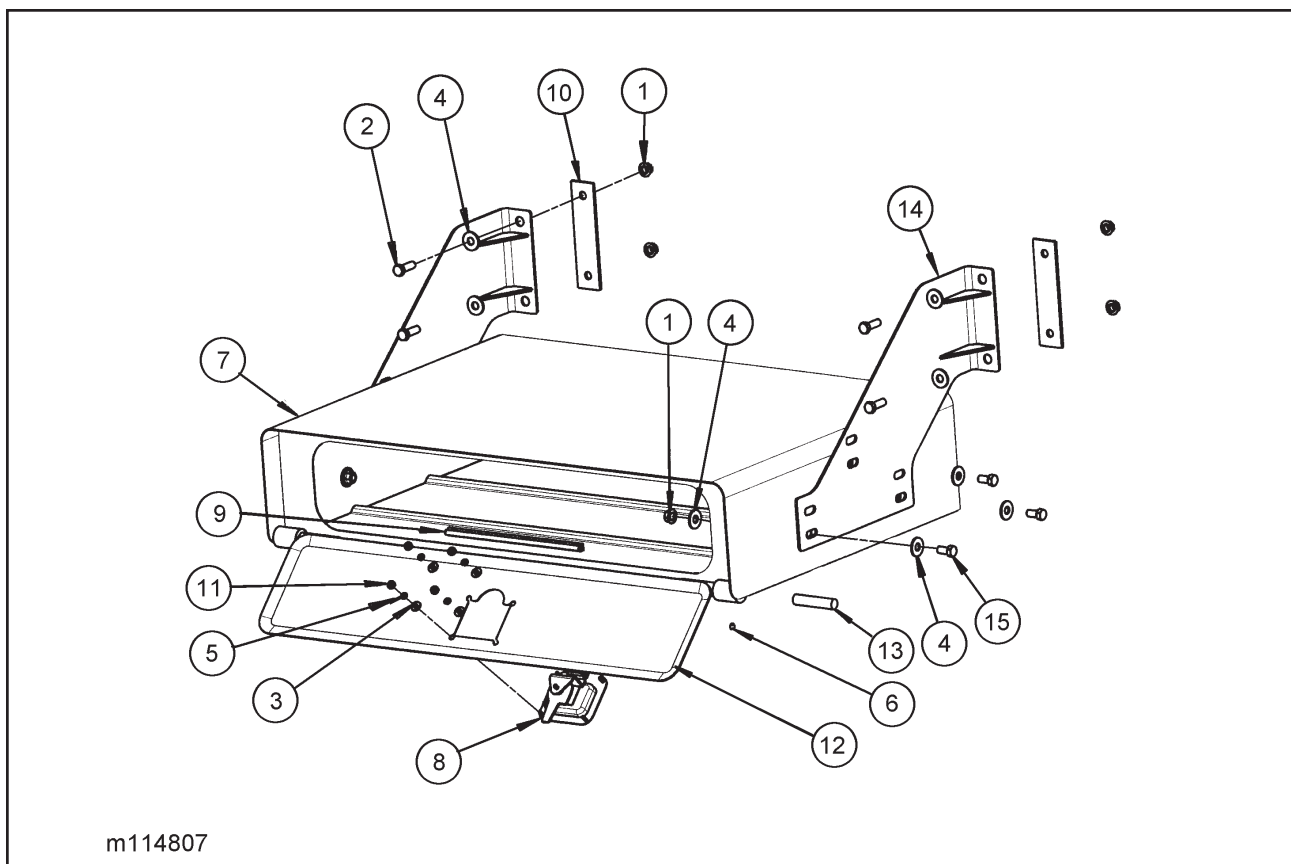


Figure 1-61 Toolbox Installation (Option)

TOOLBOX INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	114807	TOOLBOX INSTALLATION STEEL DOOR	1
	116628	TOOLBOX INSTALLATION ALUMINUM DOOR	1
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 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
	116624	DOOR WELDMENT ALUMINUM TOOLBOX	1
13	RPRB59004X3H	BAR ROUND, 3/4DIA 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

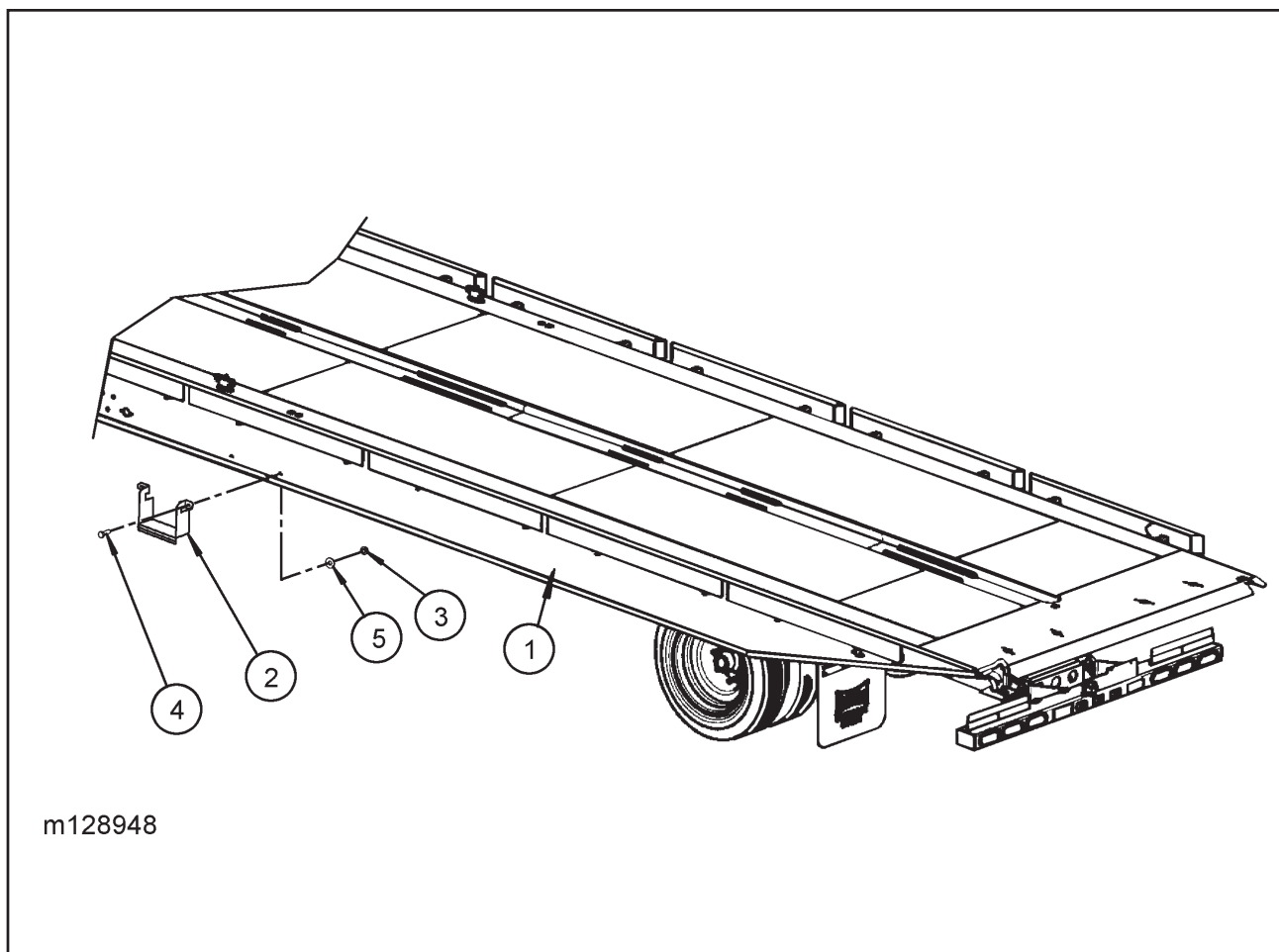


Figure 1-62 Step Assembly (Option)

STEP ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128948	STEP ASSEMBLY	
1	128199	FRAME WELDMENT	REF
2	128812	STEP, MID	1
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010070-02	SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4	2
5	1-861-010032-15	WASHER, FLAT 1/2W	2

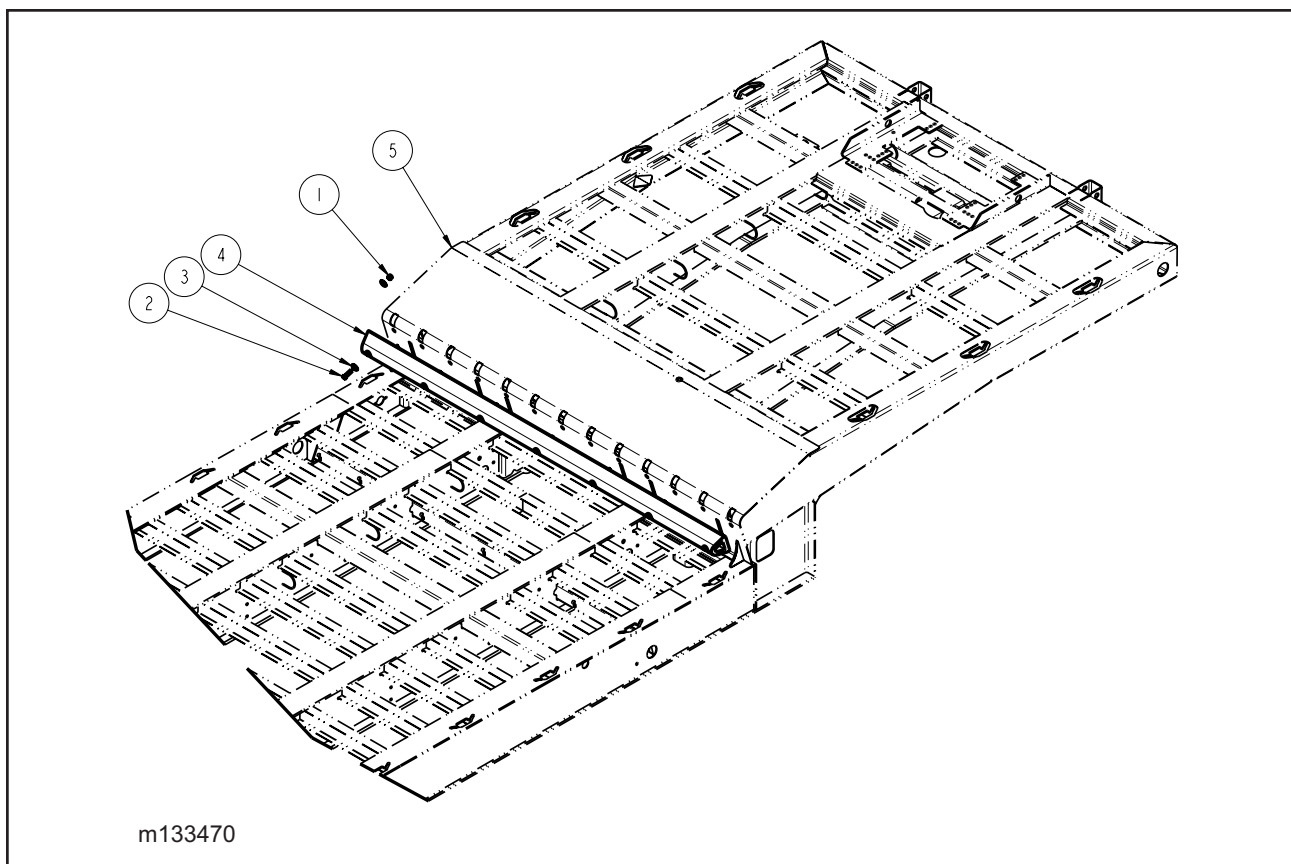


Figure 1-63 Rubber Bumper Stop (Option)

RUBBER BUMPER STOP (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	133470	RUBBER BUMPER STOP	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	7
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	7
3	1-861-010032-15	WASHER, FLAT 1/2W	14
4	106611	BUMPER, REAR TRAILER	1
5	113378	FRAME WELDMENT	REF

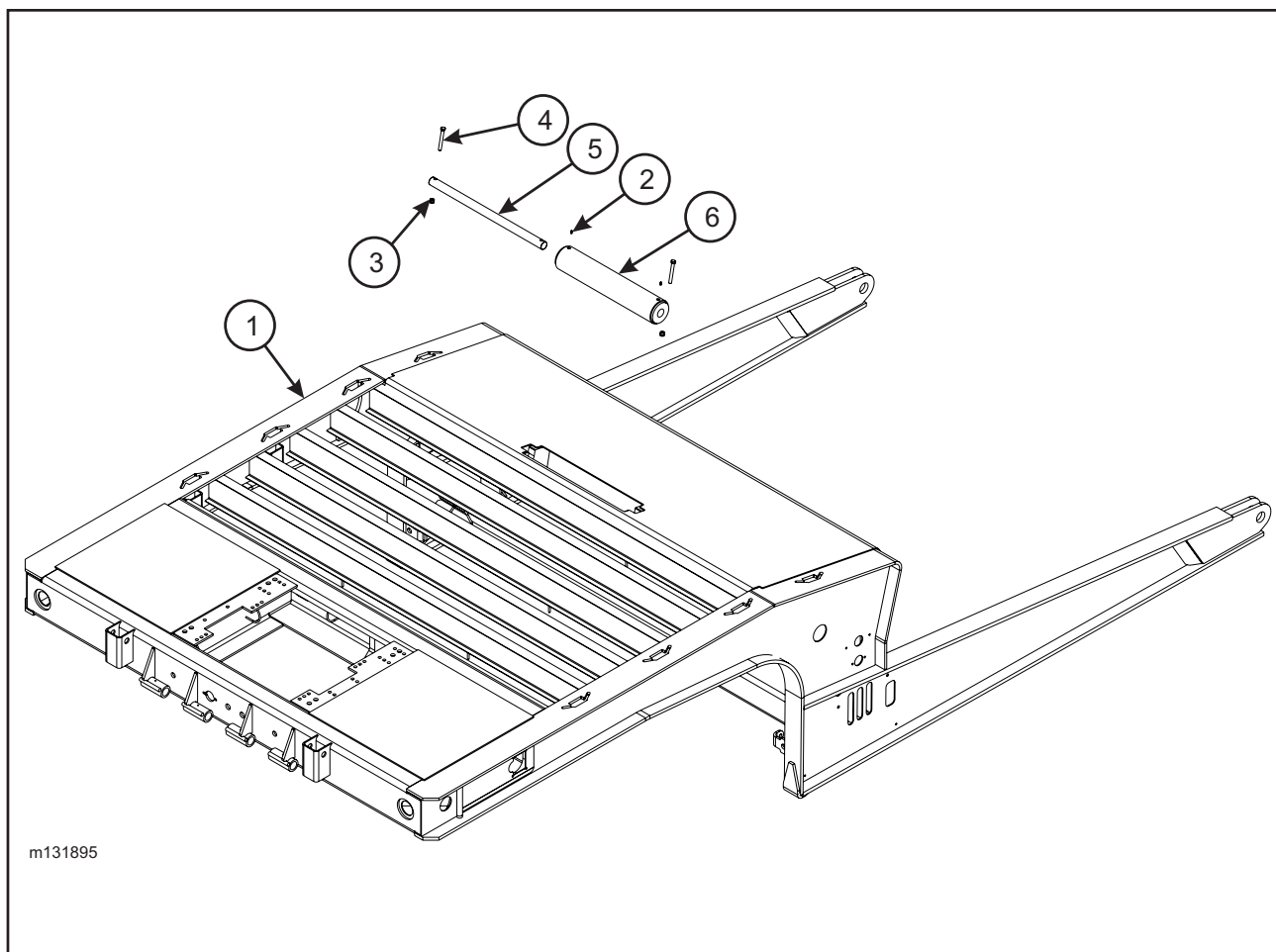


Figure 1-64 Upper Deck Roller Installation (Option)

UPPER DECK ROLLER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION	
1	----	GOOSENECK WELDMENT	REF
2	1-298-010001-1	FITTING, GREASE 1/4-28	2
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
5	3-642-010134	ROLLER ROD	1
6	3-645-010059	ROLLER WELDMENT, CABLE UPPER DECK	1

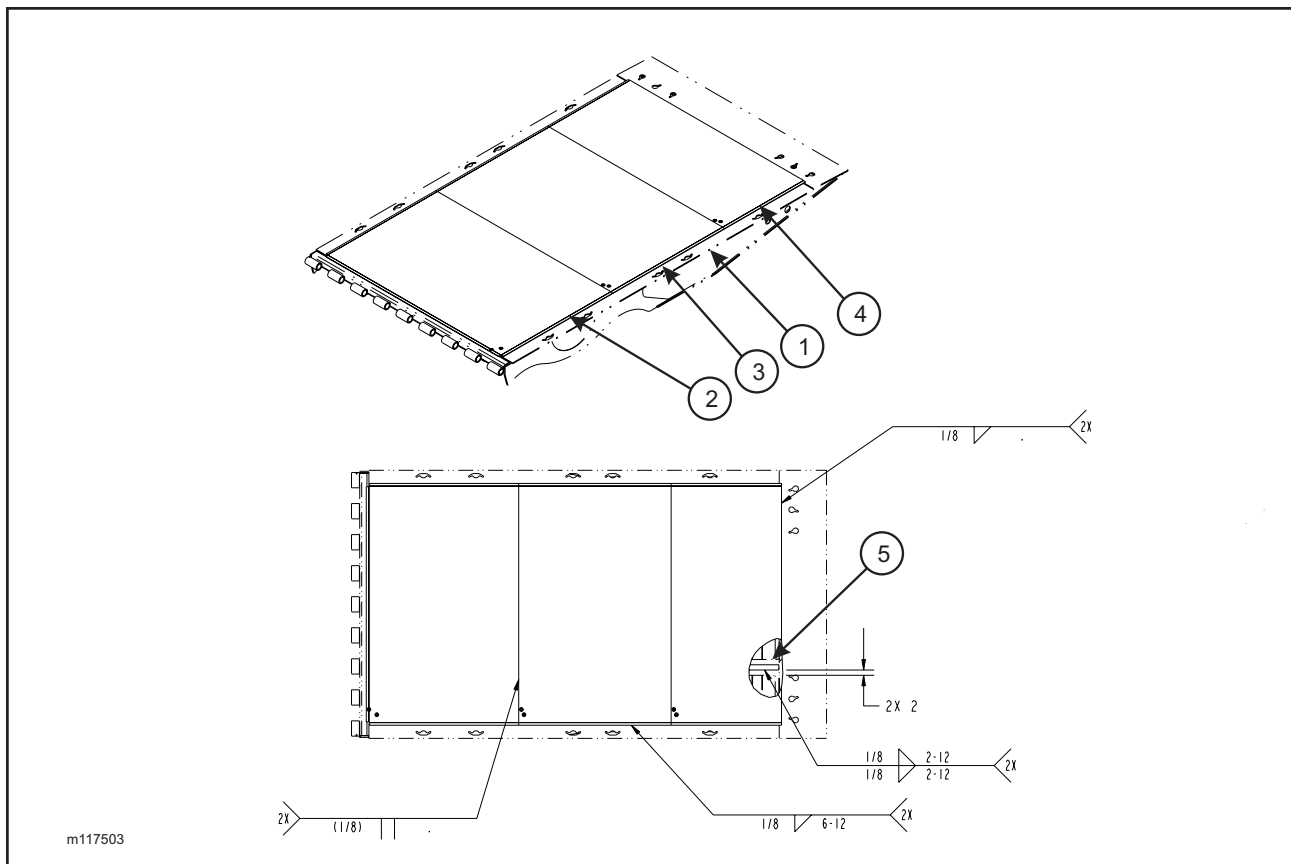


Figure 1-65 3 Deck Tread Grip/ Over Wood 15' Tail (Option)

DECK TREAD GRIP/ OVER WOOD 15' TAIL (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	117503	DECK TREAD GRIP/ OVER WOOD 15' TAIL	
1	113427	TAIL WELDMENT, 15' WOOD DECK	REF
2	117504	PLATE, TREAD GRIP 58 X 92 FRONT	1
3	117505	PLATE, TREAD GRIP 58 X 92	1
4	117506	PLATE, TREAD GRIP 42 X 92	1
5	117507	BAR, FLAT 1/4 X 2 X 156	2

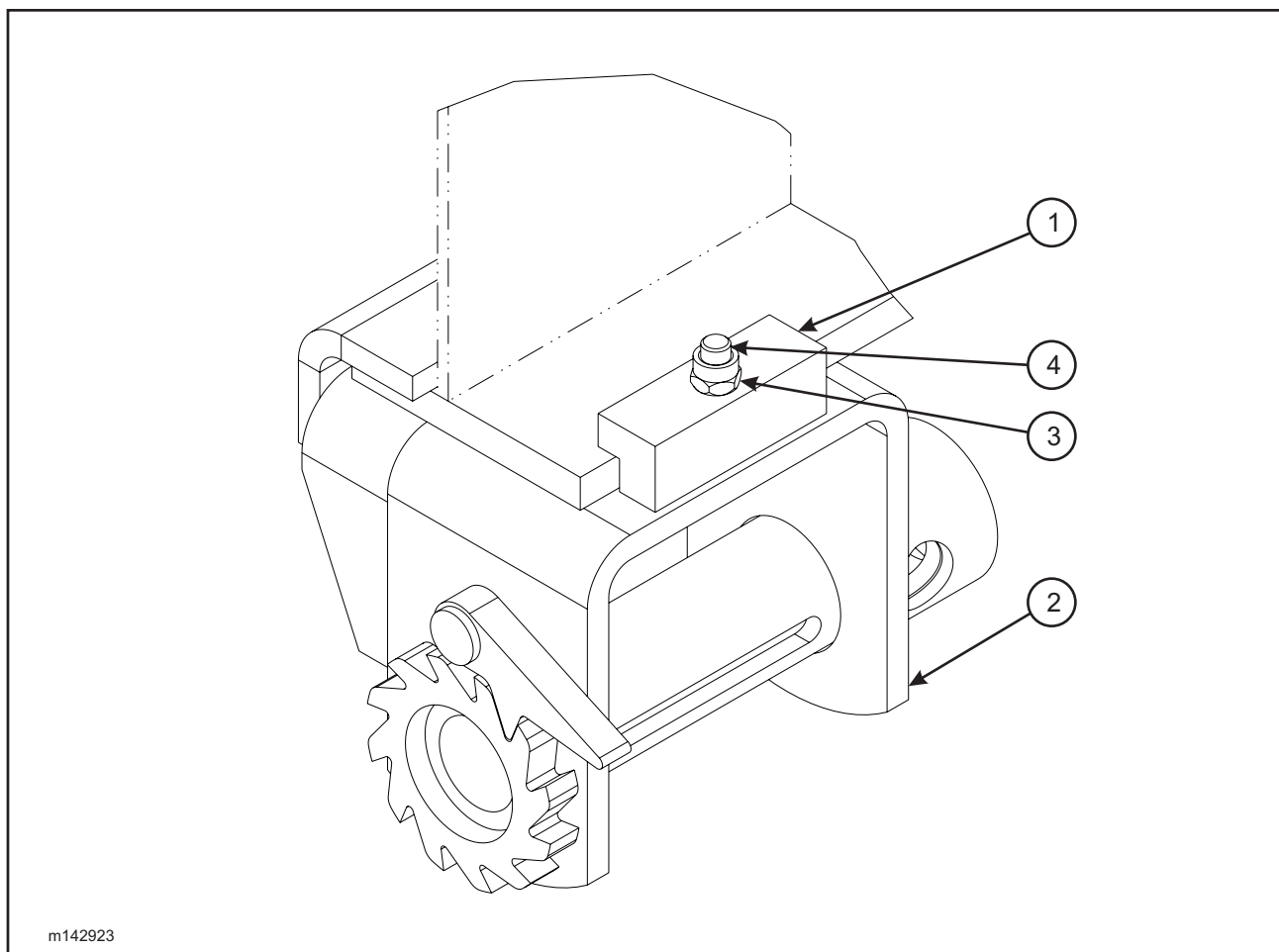


Figure 1-66 4" Webbing Sliding Winch Assembly (Option)

4" WEBBING SLIDING WINCH ASSEMBLY (OPTION)

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

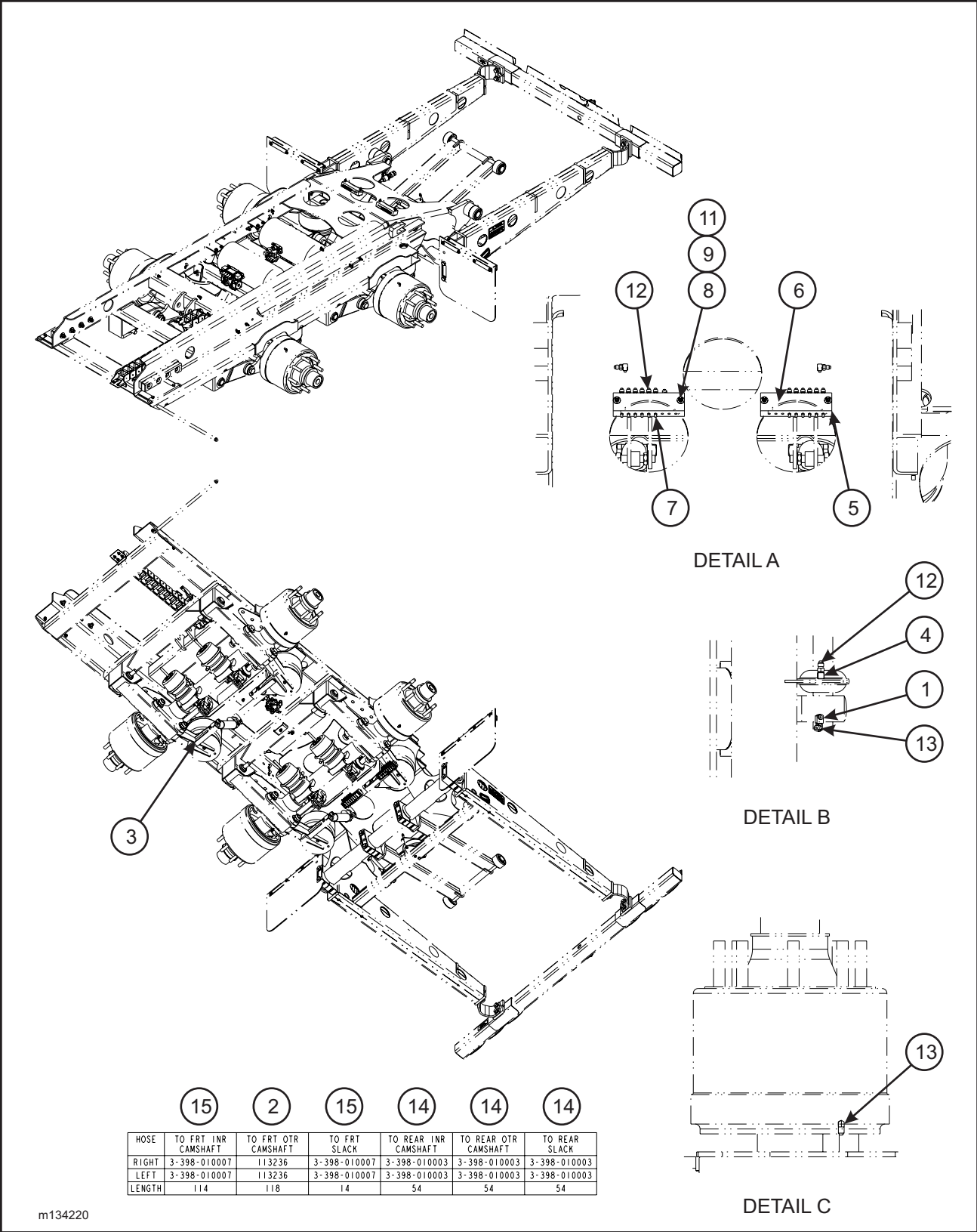
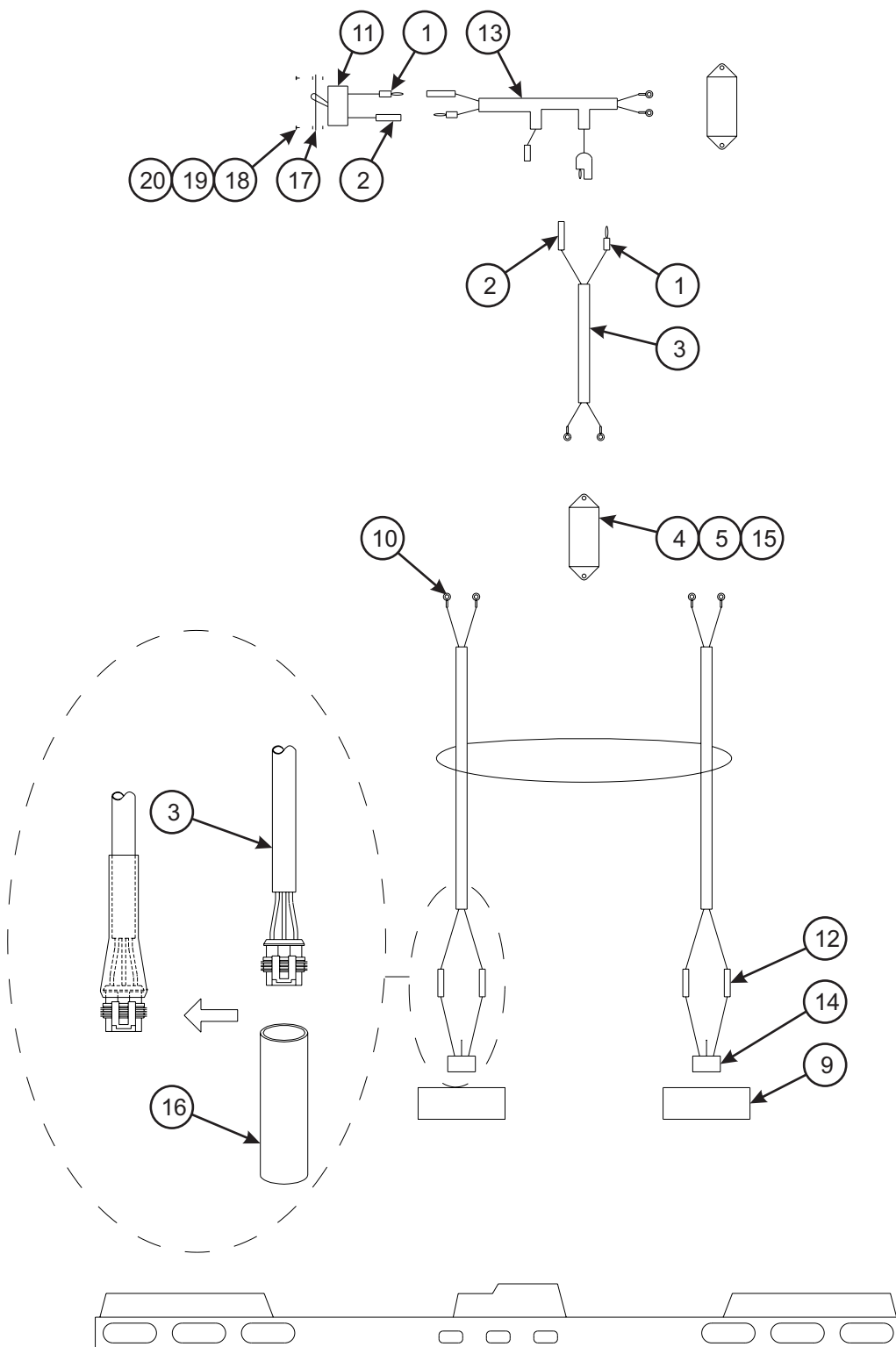


Figure 1-67 U/C Grease System (Tandem)

U/C GREASE SYSTEM (TANDEM) (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	134220	U/C GREASE SYSTEM (TANDEM)	
1	101528	ELBOW, BRASS PIPE STREET	4
2	113236	HOSE ASSEMBLY, GREASE X 118	2
3	113561	SUSPENSION ASSEMBLY, 15' TAIL	REF
4	121355	ELBOW, 90	4
5	121356	BLOCK, GREASE REMOTELY	2
6	131199	DECAL, GREASE U/C	1
7	1-298-010001-1	FITTING, GREASE 1/4-28	12
8	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	4
9	1-654-010047-12	SCREW, HEX HEAD CAP 1/4-20 X 2-1/2 GR5	4
10	1-796-010003-02	TIE, STRAP, PLASTIC .18 X 14	2
11	1-861-010032-07	WASHER, FLAT 1/4W	4
12	2021-2-4	ADAPTER, STRAIGHT	16
13	2024-2-4S	ADAPTER, ELBOWW	8
14	3-398-010003	HOSE ASSEMBLY GREASE X 54	6
15	3-398-010007	HOSE ASSEMBLY GREASE X 114	4



m130882

Figure 1-68 Rear Strobe Light Installation (Option)

REAR STROBE LIGHT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	130882	REAR STROBE LIGHT INSTALLATION	
1	STP-147	TERMINAL BULLET ELECTRICAL	2
2	STP-164	BULLET CONNECTOR, FEMALE	2
3	W214S-1	CABLE, 2 WIRE 14 AWG	100
4	1-512-010005-01	NUT, HEX LOCK	2
5	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 GR5	2
6	114581	HARNESS, MOD BUMPER	1
7	114583	HARNESS, MOD BUMPER LED	-1
8	121377	LIGHT, YELLOW LED S/T/T	-2
9	130883	LIGHT, OVAL AMBER STROBE LED	2
10	239-3646-4	TERMINAL	6
11	3-272-010017	TOGGLE SWITCH, SEALED SPST	1
12	3-272-010021	ELECT BUTT SPLICE 16-14 W/ SEAL	4
13	3-368-010253	HARNESS ASSEMBLY, CONTROL PANEL	1
14	130884	PIGTAIL LED	2
15	750-029	JUNCTION BOX, 7 STUD	1
16	0013007	HEAT SHRINK TUBING	AR
17	137987	MOUNT, ELECTRIC SWITCH	1
18	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
19	1-861-010032-09	WASHER, FLAT 5/16	2
20	1-512-010005-03	NUT, HEX LOCK 5/16 GRB	2

NOTES

NUMERICAL INDEX

2

PART	PAGE	PART	PAGE	PART	PAGE
0013007	119	100401	043	1027	069
005-074-00	031	100402	043	102728	019
005-075-00	031	1004-3	057	102732	022
005-096-00	031	1004-6	057	102732	026
005-097-00	031	100600	047	102732	028
005-098-00	031	100600	049	102836	019
005-099-00	031	100600	089	102836	022
005-134-00	031	1-007-010006	013	102836	026
006-114-00	031	1-007-010025	079	103055	022
006-115-00	031	10078	051	103055	026
010-0025-000	107	10078	054	103055	089
010-0026-000	107	100823	004	103056	022
010-052-00	031	100827	073	103056	026
012-1500-005	107	100939	004	103056	089
014-056-00	031	101003	035	103783	043
014-057-00	031	101003	037	103817	035
014-058-00	031	101160	043	103817	037
014-065-00	031	101299	004	103861	041
014-068-00	031	1014-4	057	10403	018
024-100-00	031	101528	117	10404	018
034-057-01	031	101848	041	104243	091
034-057-07	031	101851	041	104252	104
034-058-01	031	101855	041	104253	104
034-058-07	031	101855	089	1046	057
040-180-00	031	1019-4	057	10466	064
040-320-01	031	102-0204	101	104699	096
046-092-00	031	10205R	018	104699	100
046-096-00	031	10205Y	018	105-0094	005
046-097-00	031	1021	057	105-0105	096
050-5802-001	107	102186	047	105-0105	101
056-010-00	031	102186	049	10525	063
056-017-00	031	102187	046	10529	075
056-018-00	031	102188	046	105479	011
061-006-00	031	102188	049	105479	013
069-018-00	031	102361	033	105479	096
069-020-00	031	102363	022	105480	011
069-078-00	031	102363	026	105480	013
071-122-00	031	102363	033	105480	096
071-124-00(3067)	043	102364	022	105481	011
097-002-00	031	102364	026	105481	013
1000	076	102364	033	105481	096

PART	PAGE	PART	PAGE	PART	PAGE
105482	011	107622	004	109158	023
105482	013	107622	023	109158	026
105482	097	107622	027	109161	093
105483	011	107657	011	109173	104
105483	100	107658	011	109174	104
105812	043	107660	004	109177	027
105822	011	107732	022	109177	029
105822	089	107732	026	109207	023
105909	005	107887	007	109207	027
106-0079	083	107887	039	109209	035
106-0079	083	108294	004	109211	109
106068	083	108295	097	109221	109
106069	083	108336	011	109268	083
106069	083	10848	064	109269	083
106379	072	108506	089	109402	089
106385	072	108507	089	109403	089
106611	112	108545	004	109524	023
106759	013	108601	004	109524	027
106760	013	108601	096	109711	093
107-0039	022	108700	004	109712	093
107-0039	026	108701	004	109895	023
10708	063	108705	022	109895	027
107-0975	007	108705	026	1-1/4ST ELL	013
107-0975	110	108719	039	110-0116	097
107368	046	108724	023	110-0253	097
107368	056	108724	026	11005053	033
107369	047	108737	104	11011	051
107470	026	108746	023	11014	055
107498	013	108746	026	11025	055
107513	013	108801	039	11026	054
107582	022	108802	039	110435	004
107582	026	108962	104	110649	022
107588	022	108969	007	110649	026
107588	026	109004	004	110975(2023——T)	043
107591	022	109120	022	110976(66884)	043
107591	026	109120	026	111010	033
107594	022	109126	011	111010	033
107594	026	109138	004	111011	033
107598	019	109138	023	111012	033
107621	004	109138	027	111013	033
107621	023	109144	011	111014	033
107621	027	109145	011	111016	033

PART	PAGE	PART	PAGE	PART	PAGE
111018	033	112678	091	11425	054
111021	028	112679	091	11426	055
111023	033	112691	085	11427	054
111091	073	1128	056	11429	054
111091	075	112833	081	11430	055
111092	073	112948	085	11431	054
111092	075	11308	051	11434	054
111093	073	11309	055	11435	055
111093	075	11310	055	1144	075
111094	073	113214	004	11440	054
111094	075	113236	117	11441	054
111095	073	113373	019	11442	054
111095	075	113374	019	11443	063
111096	073	113378	112	11445	054
111096	075	113388	089	11446	054
11117	051	113388	096	11449	054
11128	051	113388	100	114537	011
11129	051	113427	004	114537	015
11130	052	113427	114	114538	011
11133	051	113532	007	114538	015
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111384	073	113561	117	114562	004
111385	067	113562	023	114562	023
111385	073	113662	085	114562	027
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111386	073	113667	085	114571	089
111387	072	113668	085	114581	119
11142	051	11368	051	114583	019
11144	051	113856	096	114583	119
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111925	018	11404	054	114586	037
111925	018	11405	054	114586	041
112047	043	11407	054	114588	041
112244	037	114081	011	114590	035
112245	037	11411	054	114590	037
112248	100	11414	054	114590	041
11240	052	11419	054	114807	110
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112641	075	114241	072	114814	096

PART	PAGE	PART	PAGE	PART	PAGE
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114815	110	116856	004	119622	049
115623	004	117284	085	119623	049
1157	064	117285	085	119624	049
1157	077	117304	037	119626	085
115704	030	11750	063	11977	063
115709	030	117503	114	119949	090
115715	030	117504	114	119984	004
115720	030	117505	114	119997	081
115747	023	117506	114	119999	022
115747	027	117507	114	12043	076
115748	027	117544	004	120479	103
115749	023	117554	090	12048	076
115749	027	117558	090	120654	096
115750	027	117559	090	120659	097
115843	110	117561	090	120659	100
115877	005	117563	090	120660	097
115877	097	117565	004	120660	100
115877	100	11767	051	120661	096
115877	110	117844	027	120661	100
115888	096	117860	110	120662	100
115888	100	117873	096	12073	054
11599	054	11791	055	12075	052
11603	063	11799	051	12083	076
116139	018	1-181-010046-7	097	12113	076
116140	018	1-181-010046-7	100	121352	085
116326	096	118-2659-9	035	121355	117
116328	096	118-2659-9	037	121356	117
116330	096	11837	052	121377	019
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116378	049	1188	063	12146	055
1165	064	118853	004	12-16 070120	013
1165	076	119206	096	12228	055
1166	069	119232	081	122333	061
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116628	110	119445	096	122336	067
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PART	PAGE	PART	PAGE	PART	PAGE
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123014	100	128152	009	1-297-010008-07	039
123126	085	128153	009	1-297-010008-07	046
123166	096	12817	052	1-297-010008-07	060
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126580	066	1-297-010007-05	007	1-297-010014-02	039
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PART	PAGE	PART	PAGE	PART	PAGE
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1-297-010022-02	072	13295	064	135614	004
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1-297-010032-03	046	13299	063	13602	075
1-297-010032-03	072	13300	063	13603	075
1-297-010034-01	096	13301	064	13605	076
1-297-010034-01	100	13306	064	136197	011
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1-298-010001-1	022	13317	063	136199	011
1-298-010001-1	026	13330	063	13620	075
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13005	051	13370	076	136205	089
13028	052	13372	076	136206	089
13028	055	13372	077	136207	089
13034	075	13373	076	13621	075
13035	075	13379	076	136223	011
130511	004	13380	076	136224	011
130552	079	13385	076	136225	007
13063	069	13386	076	136258	023
130662	103	13386	077	136259	004
130882	119	13400	076	136265	089
130883	119	13403	076	136266	089
130884	119	134220	117	136291	004
131196	004	13424	052	136352	005
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1317	064	135357	007	137066	007
131895	113	135358	011	137069	007
132022	018	135398	007	13746	076
13235	064	135414	007	137461	031
13285	063	135415	004	137485	031
13286	063	135415	007	1376	063
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PART	PAGE	PART	PAGE	PART	PAGE
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137987	119	1-397-010301208	072	1-510-010001	037
138114	100	1-397-010301220	011	1-510-010001	046
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138124	011	1-397-010302172	046	1-510-010003-09	110
138125	011	1-397-010302172	049	1-510-010004-03	004
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138144	100	1-397-010302220	066	1-511-010001-07	022
138145	100	1-397-010304018	097	1-511-010001-07	026
138146	100	1-397-010304025	100	1-512-010003-02	047
138160	100	1-397-010304060	097	1-512-010003-02	060
138182	022	1-397-010312032	097	1-512-010003-02	072
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138198	030	13996	069	1-512-010004-03	047
1-382-010035-06	060	1401	069	1-512-010004-03	097
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138206	100	1402	063	1-512-010005-01	018
138207	100	1402	076	1-512-010005-01	022
138210	026	14068	064	1-512-010005-01	026
13839	052	14099	077	1-512-010005-01	028
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13938	055	1498	063	1-512-010005-05	009
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139623	022	1-510-0100001	049	1-512-010005-05	035
13968	069	1-510-010001	004	1-512-010005-05	037
13969	069	1-510-010001	007	1-512-010005-05	047
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PART	PAGE	PART	PAGE	PART	PAGE
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PART	PAGE	PART	PAGE	PART	PAGE
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PART	PAGE	PART	PAGE	PART	PAGE
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1-861-010032-08	007	1-861-010032-15	112	1-861-010059-21	011
1-861-010032-09	018	1-861-010032-18	049	1-861-0140032-18	047

PART	PAGE	PART	PAGE	PART	PAGE
1865	057	2088-6-6S	037	23367	054
1-879-010008	083	2088-6-6S	039	23470	051
1-879-010010	018	2089-6-6S	035	2356	056
1-879-010011	083	2089-6-6S	037	2388	056
19014	054	21044	055	2389	056
19045	051	2109-3	057	2390	056
19045	054	2175	057	239-3646-4	018
1974	056	2177	057	239-3646-4	119
1976	056	2180	057	239-3646-5	018
2021-12-12S	101	2-181-010001	046	239-9076-009	005
2021-2-4	117	2-181-010001	049	239-9076-2	023
2024-12-12S	013	2183	057	239-9076-2	027
2024-12-12S	096	21925	051	239-9076-3	047
2024-12-8S	013	21961	051	24032	051
2024-2-4S	117	21964	055	2480	057
202702-10-12S	011	22055	054	2481X	096
202702-10-8S	046	2240-12-12S	097	2481X	101
202702-10-8S	049	2263	057	2509904	100
202702-20-20S	096	2265-6	057	2-557-010045	023
202702-20-20S	101	22695	055	2-557-010045	027
202702-8-8S	011	22697	055	2-573-010335	007
202702-8-8S	060	22703	052	2-573-010335	089
202702-8-8S	066	22704	052	26331	018
203102-12-12S	096	2-272-010109	047	2-684-010001	023
2047-12-12S	013	2-272-010109	060	2-684-010001	027
2061-8-8S	011	22729	055	2-684-010045	023
206209-12-12S	096	22752	051	2-684-010045	027
2062-10-8S	047	22775	051	2-720-010008	023
2062-10-8S	049	22775	054	2-720-010008	027
2062-12-12S	096	23078	052	28942	055
2062-12-12S	101	23079	052	28943	055
2062-16-8S	013	23081	052	3004	076
2062-8-8S	011	23083	052	3004	077
2062-8-8S	072	23085	052	3-014-010255	047
2071-12-12S	011	2309	064	3-054-010101	009
2081-8-6S	039	2309	076	3059	064
2083-8-4S	035	2309	077	3109	056
2083-8-4S	037	2319	063	3-120-010124	096
2083-8-4S	106	23245	055	3-120-010124	101
2083-8-8S	035	23303	051	3-120-010445	039
2083-8-8S	037	23310	055	3-120-010445	046
2088-6-6S	035	23353	052	3-120-010445	060

PART	PAGE	PART	PAGE	PART	PAGE
3-120-010445	072	3-162-010001	101	3321	076
3-120-010461	013	3-174-010038	046	3321	077
312-2917-130	016	3-174-010038	049	3-348-010048	047
312-3220-327	016	3-174-010038	072	3-348-010048	060
3-125-010464	046	3-174-010039036	046	3-348-010048	073
3-125-010464	049	3-174-010039036	049	3-360-010072	007
3-125-010465	046	3-174-010039036	072	3-368-010120	018
312-5037-201	016	3-174-010059	060	3-368-010125	072
3126	063	3-174-010059	066	3-368-010129	046
3-128-010025	106	3-174-010060036	060	3-368-010129	060
312-8217-327	016	3-174-010060036	066	3-368-010177	018
3-136-010001-01	047	3177	063	3-368-010187	046
3-136-010001-01	060	3-182-010028	096	3-368-010187	060
3-136-010001-01	072	3-182-010028	101	3-368-010187	072
3-141-010008	009	3-201-010001036	072	3-368-010188	047
3-141-010120	105	3-203-010001	018	3-368-010188	073
3-141-010121-2	009	3-209-010003	083	3-368-010191	081
3-141-010155	009	3-209-010004	083	3-368-010201	081
3-150-010005	073	3-209-010004-03	081	3-368-010250	018
3-150-010186	046	3-209-010006	083	3-368-010252	018
3-150-010186	056	3263	063	3-368-010253	018
3-150-010196	046	3-272-010017	018	3-368-010253	119
3-150-010196	049	3-272-010017	119	3-368-010294	018
3-153-010016-XX	060	3-272-010018	047	3-398-010003	117
3-153-010016-XX	066	3-272-010018	060	3-398-010007	117
3-155-010012	096	3-272-010018	072	3-399-010001	013
3-155-010012	101	3-272-010021	018	3-399-010001006	097
3-155-010017-4	046	3-272-010021	119	3412	076
3-155-010017-4	072	3-272-010078	083	3437	075
3-155-010018	072	3-272-010078	083	3440	075
3-155-010018-6	046	3-272-010079	083	3-443-010018	097
3-155-010018-6	049	3-272-010080	083	3445	069
3-155-010025	096	3-272-010095	083	3-446-010046	018
3-155-010025	101	3-272-010109	072	3456	076
3-156-010007600	083	3-272-010121	083	3456	077
3-156-010008	018	3-272-010125	081	3460	075
3-156-010009	081	3-279-010037	083	346SL	091
3-156-010043	083	3-279-010037	083	3-481-010006	046
3-156-010043	083	3303	064	3-481-010006	049
3159	063	3303	076	3-481-010006	057
3-162-010001	013	3303	077	3-481-010007	046
3-162-010001	096	3321	064	3-481-010007	049

PART	PAGE	PART	PAGE	PART	PAGE
3-481-010007	057	3-626-010004	039	3-843-010008	066
3-482-010503	013	3-626-010004	046	3-843-010015	085
3-482-010563	039	3-626-010004	060	3-843-010022	046
3-485-010001	023	3-626-010004	072	3-843-010022	060
3-485-010001	027	3632	064	3-843-010022	072
3-522-010017	047	3632	076	3-843-010038	039
3-557-010474	046	3-642-010134	113	3-843-010039-02	060
3-561-010001	013	3-642-010150	046	3-843-010039-02	085
3-565-011688	047	3-642-010150	049	3-870-010097	043
3-573-010031	023	3-645-010059	113	3-870-010104	043
3-573-010031	027	3-659-010012	043	3-870-010106	043
3-573-010031	089	3705	077	3-870-010116	043
3-573-010040	089	3-711-010025	009	3-873-010122	046
3-573-010041	089	3-711-010120	073	3-873-010122	049
3-573-010042	089	3-720-010010	046	3-873-010122	051
3-573-010043	089	3-720-010010	049	3-873-010123	046
3-573-010044	089	3-720-010010	060	3-873-010123	049
3-573-010045	089	3-720-010010	066	3-873-010123	054
3-573-010046	089	3-720-010010	072	3-873-010124	047
3-573-010047	089	3-720-010035	047	3-873-010124	049
3-573-010048	089	3-720-010042	007	3-873-010140	046
3-573-010049	089	3-720-010042	023	3-873-010144	046
3-573-010085	089	3-720-010042	027	3-873-010145	046
3-573-010210	089	3-720-010042	046	3-873-010170	060
3-573-010296	083	3-720-010042	072	3-873-010172	060
3-573-010299	089	3-725-010058	091	3-873-010172	069
3-573-010349	089	3-762-010017	023	3-873-010173-01	060
3-573-010377	023	3-762-010017	027	3-873-010173-01	063
3-573-010377	027	3-765-010001	081	3-876-010017	066
3-573-010377	089	3-765-010001	083	3-8P_COUPL	097
3-573-010378	089	3-780-010002	035	391-0381-068	016
3-573-010378010	009	3-780-010002	037	391-1401-025	016
3-573-010378012	009	3-786-010043	013	391-1802-119	016
3-573-010391	083	3-793-010040	108	391-2082-032	016
3-573-010392	083	3-793-010041	108	391-2185-013	016
3-573-010392	089	3-829-010337	105	391-2585-006	016
3-591-010001	013	3-831-010151	046	391-2882-086	016
3-591-010001	016	3-831-010151	049	391-2883-058	016
3607	075	3-831-010172	046	391-2884-050	016
3-612-010015-1	105	3-831-010172	049	391-3681-001	016
3-612-010015-2	105	3-831-010182	046	391-3784-028	016
3-612-010016	105	3-831-010182	049	40-0667-02	101

PART	PAGE	PART	PAGE	PART	PAGE
4009	043	750-029	047	900 08 186	033
4042	063	750-029	073	900 44 207	029
4076	075	750-029	081	900 44 642	033
4346-8	075	750-029	085	900 45 040	033
48100200	047	750-029	119	900 54 007	028
48100200	060	758-181	035	900 54 007	035
5/16-18X1-1/2EB	007	758-181	037	900 54 007	037
514-9045-26	097	76343	064	900 54 079	029
514-9045-26	101	76343	076	900 54 079	035
514-9073-18	097	76343	077	900 54 079	037
514-9073-18	101	76344	064	900 54 088	029
52859	069	76344	076	90008184	033
55B61	039	76344	077	9001-B255	083
55B61-6	039	78402	069	9001-B256	083
55B61-7	039	78403	069	9001-BW70YU	083
56D4	035	7HCGHT500	046	900-25-288	033
56D4	037	7HCGHT500	049	900-54-088	039
59P8	083	7HCGHT500	072	900598-12S	096
59P8	083	805-2	035	900598-12S	101
59P8	083	805-2	037	901-0029-001	107
59S-7	018	81006	051	905 54 107	028
59W-2-3	018	81009	051	905 54 107	035
59W-2-3	081	81025	051	905 54 107	037
60015Y	018	81077	054	905-54-107	039
60215Y	018	81078	054	905-54-107	047
60700	018	81080	054	905-54-107	060
622-3511-008	023	81081	054	905-54-107	066
622-3511-008	027	81082	054	905-54-107	072
63680	043	81107	076	905-54-107	106
64181	018	81434	063	905-57-129	033
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660580003	015	81530	051	934 00 149	033
660580004	015	81608	064	934 00 492	033
660580005	015	81611	076	934-00-367	033
6828	013	81612	064	934-00-506	033
69095	069	81612	076	934-00-506	033
70040	075	81612	077	936 00 077	033
70042	075	8-720-010013	023	93908009	033
71503635	007	8-720-010013	027	941 00 119	028
73174	063	88005	055	941 00 466	028
750-029	018	900 08 139	033	94100590	033

PART	PAGE	PART	PAGE	PART	PAGE
94100648	033	A10038.6	093	F-100852	047
94100685	033	A10038.7	093	HM212011	043
94100787	033	A10040	093	HM212049	043
94100790	033	A10052.3	093	HM218210	043
9600	075	A10054.3	093	HM218248	043
9612	063	A10054.6	093	K71-101-00	031
9612	075	A10054.7	093	K71-133-00	031
9637	075	A10059.1	093	K71-135-00	031
9672	063	A10101	093	K71-136-00	031
9672	064	A10102	093	K71-138-00	031
9672	076	A10212	093	K71-460-00	031
9695	064	A10218	093	M110AB-4	057
9695	064	A10230	093	M110C-1	057
9704	064	A10255	093	PA-2328-2	057
9704	076	A10260.1	093	PTO*	013
9709	075	A6760S	106	RPRB59004X3H	110
9711	075	AA-1807	067	RTR7999X4ZP	047
9739	077	B10036	093	STP147	018
9821	075	B10066	093	STP-147	119
9843	075	B10130	093	STP164	018
9844	063	B10229.S	093	STP-164	119
9846	075	B10236	093	TR545D	043
9851	063	B3-272-076	018	TR573	043
9851	075	B7-141-003	009	W214S-1	119
9852	063	C10078	093		
9852	075	C10085	093		
9853	063	C10140.3	093		
9854	063	C10155	093		
9880	063	C10177	093		
9890	063	C10209	093		
9890	064	C10217	093		
9897	076	C10233	093		
9897	077	C10234	093		
9897	077	C10256	093		
9929	075	C10259	093		
9972	063	C2001	056		
9992	064	C3069X12	013		
9992	064	D10116.3	093		
A001	085	D10201.3	093		
A10033	093	D-2H12	030		
A10037.1	093	D-2H16	030		
A10037.3	093	DB-10	083		

