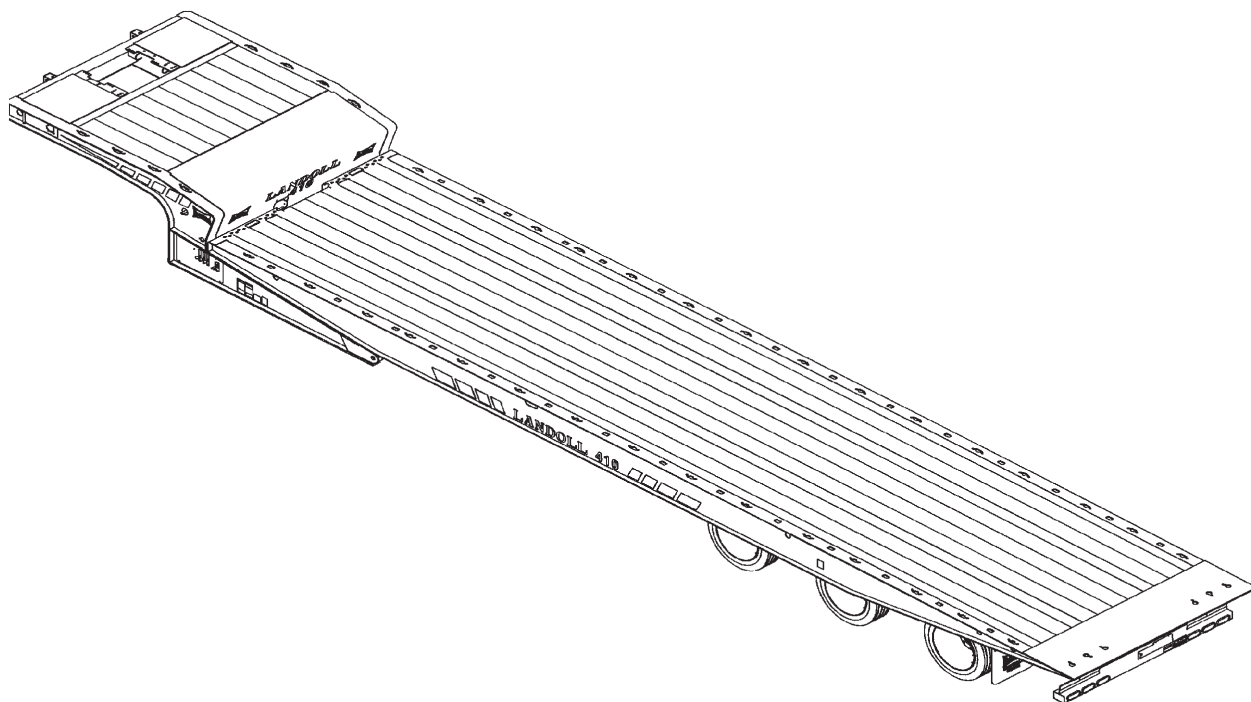




**MODEL 410/425/435 SERIES
SEMITRAILER
PARTS LIST**



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

ILLUSTRATED PARTS LIST

1

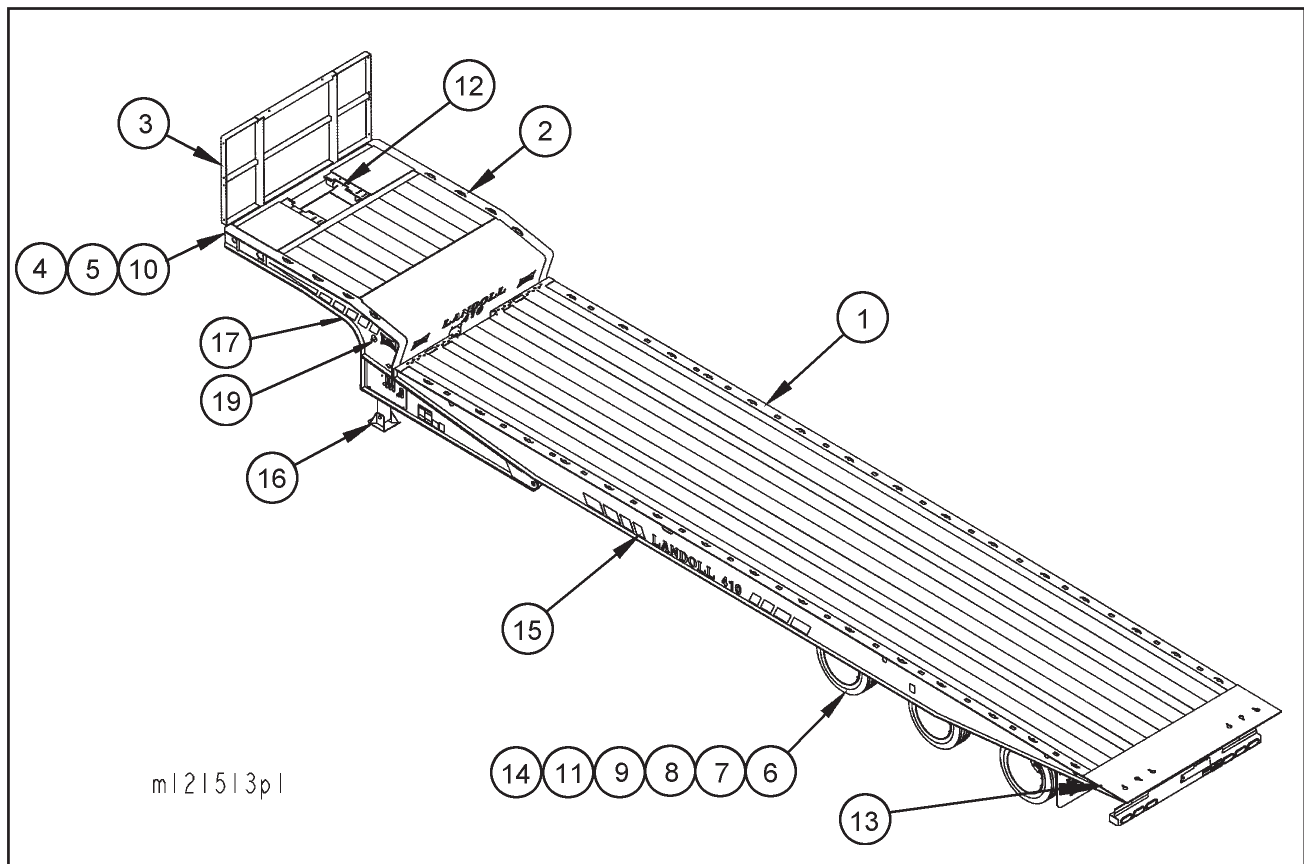


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PART/PAGE NO.	DESCRIPTION	QTY.
1		LOWER DECK	1
2	1-2 - 1-3	UPPER DECK ASSEMBLY	1
3	1-4 - 1-9	BULKHEAD/PULLOUT/OUTRIGGER ASSEMBLIES (OPTION)	1
4	1-10 - 1-25	HYDRAULIC SYSTEM	1
5	1-26 - 1-29	ELECTRICAL SCHEMATICS	1
6	1-30 - 1-37	UNDERCARRIAGE ASSEMBLY - AIR RIDE SUSPENSION	1
7	1-38 - 1-39	AXLE AND BRAKE	1
8	1-40 - 1-41	SUSPENSION HANGER RLU-250	2
9	1-42 - 1-45	AIR BRAKE SYSTEMS	1
10	1-46 - 1-47	AIR SYSTEM	1
11	1-48 - 1-49	HUB AND DRUM ASSEMBLY	4
12	1-50 - 1-85	WINCH ASSEMBLIES	1
13	1-88 - 1-97	REMOTE CONTROL ASSEMBLIES (OPTION)	1
14	1-98 - 1-104	DOCK LEVELER ASSEMBLIES (OPTION)	1
15	1-105 - 1-107	DECAL INSTALLATION	1
16	1-108 - 1-111	LANDING GEAR ASSEMBLIES (OPTION)	1
17	1-112 - 1-117	HYDRAULIC ENGINE ASSEMBLY (OPTION)	1
18	1-86 - 1-87; 1-118 - 1-123	MISCELLANEOUS OPTIONS (NOT SHOWN)	1
19	128435	SCALE, AIR DIGITAL (OPTION)	1

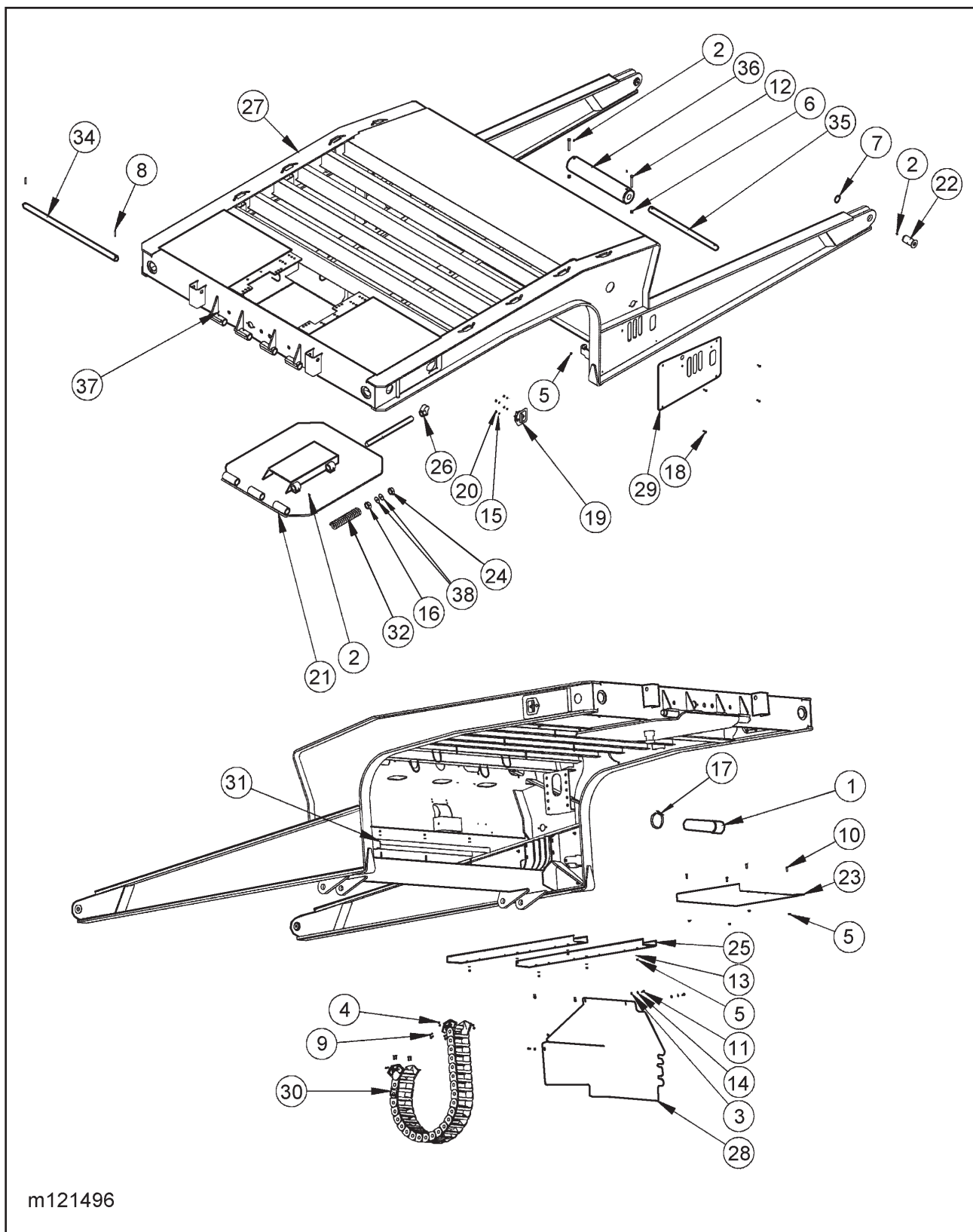
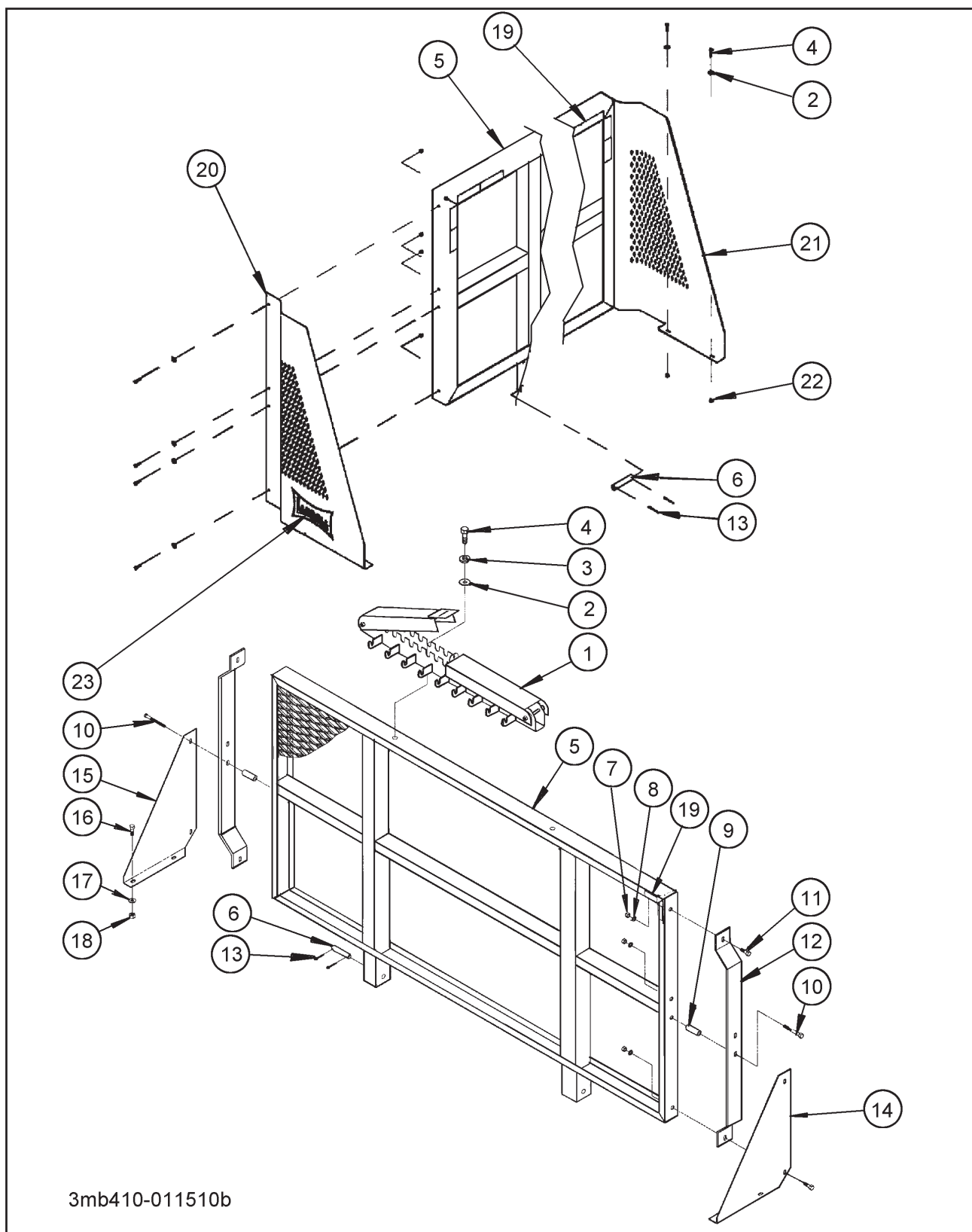


Figure 1-2 Upper Deck Assembly

UPPER DECK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	121496	G/N FRAME ASSEMBLY 410/435	
	127809	G/N FRAME ASSEMBLY GALV. 410/435	
	118978	G/N FRAME ASSEMBLY 425	
1	1-116-010019	BOX, MANUAL STORAGE	1
2	1-298-010001-1	ZERK FITTING 1/4	6
3	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
4	1-512-010005-01	NUT, HEX LOCK 1/4-20	8
5	1-512-010005-03	NUT, HEX LOCK 5/16-18	21
6	1-512-010005-09	NUT, HEX LOCK 1/2-13	2
7	1-630-010021-02	RING, RETAINING 2 HD	2
8	1-647-010004255	PIN, SPRING SLOTTED 3/8 X 2	2
9	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	8
10	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	8
11	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
12	1-654-010055-11	SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5	2
13	1-861-010032-08	WASHER, FLAT 5/16N	9
14	1-861-010032-11	WASHER, FLAT 3/8W	3
15	1-861-010034-09	WASHER, SPLIT LOCK 1/4	8
16	100823	NUT, HEX JAM 1-1/4-7	2
17	105-0093	HOSE CLAMP 4-1/2	1
18	105909	SCREW, RD HEAD SQ NECK 5/16-18 X 3/4	4
19	114814	LATCH FOLDING T LOCKABLE	2
20	115877	NUT, HEAVY HEX 1/4-20	8
21	116822	HITCH PLATE	1
22	116943	PIN WELDMENT PIVOT	2
23	117544	PLATE, TOOLBOX BOTTOM	2
24	117556	LATCH ROD	1
25	117565	COVER, HOSE LOWER	3
26	118889	CAM, FIFTH WHEEL LATCH	1
27	120711	GOOSENECK WELDMENT 410	1
	122362	GOOSENECK WELDMENT 425	1
28	121125	SHIELD, HYD CONTROLS	1
29	121559	PLACARD CONTROLS	1
30	122380	E-CHAIN G/N FRAME	1
31	2-181-010001	CLAMP	3
32	2-720-010002	SPRING-CLAMP OUTER	1
33	3-201-010002	CONDUIT, PLASTIC FLEX 3/8 (NOT SHOWN)	AR
34	3-557-010469	HINGE PIN, FIFTH WHEEL	1
35	3-642-010134	ROD ROLLER	1
36	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK	1
37	5210	ZERK FITTING 1/4-28 X 45	4
38	117562	SHIM, HITCH	2



3mb410-011510b

Figure 1-3 Bulkhead Assembly

BULKHEAD ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION (ITEMS 1-4)	
	3-141-010121	BULKHEAD INSTALLATION (ITEMS 5-13, 19)	
	3-117-010071-1	BRACE INST. STABILIZING 48" BULKHEAD (ITEMS 14-18)	
	128136	BULKHEAD INSTALLATION (ITEMS 2,4-6,13,19-23)	
1	3-141-010008	CHAIN HANGER LOCKING CHANNEL WLDMT	1
2	1-861-010032-11	WASHER, FLAT 3/8	*1,12
3	1-861-010034-11	WASHER, SPLIT LOCK 3/8	1
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	*2,12
5	3-141-010155	BULKHEAD WELDMENT 48 X 96	1
6	6-557-010163	PIN HITCH LEVEL LINK	2
7	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
8	1-861-010032-15	WASHER PLAIN TYPE A 1/2	6
9	3-711-010025	SPACER	2
10	1-654-010055-13	SCREW HEX HEAD CAP 1/2-13X4 GR5	2
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	4
12	3-054-010101	BAR SIDE BULKHEAD EXTENSION	2
13	1-557-010362-63	COTTER PIN 1/4X2	4
14	3-117-010069	BRACE LH STABILIZING 48" BULKHEAD	1
15	3-117-010070	BRACE RH STABILIZING 48" BULKHEAD	1
16	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	4
17	1-861-010032-15	WASHER FLAT 1/2W	8
18	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
19	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE	AR
20	128137	EXTENSION, BULKHEAD ALUM LH	1
	128153	EXTENSION, BULKHEAD LH	1
21	128138	EXTENSION, BULKHEAD ALUM RH	1
	128152	EXTENSION, BULKHEAD RH	1
22	1-512-010005-05	NUT, HEX LOCK 3/8-16	12
23	1-573-010476	DECAL, BOW TIE (BLACK) (SEE PAGE 1-105)	2
	1-573-010480	DECAL, BOW TIE (WHITE) (SEE PAGE 1-105)	2

* 1ST QUANTITY USED ON P/N B7-141-003; 2ND QUANTITY USED ON P/N 128136

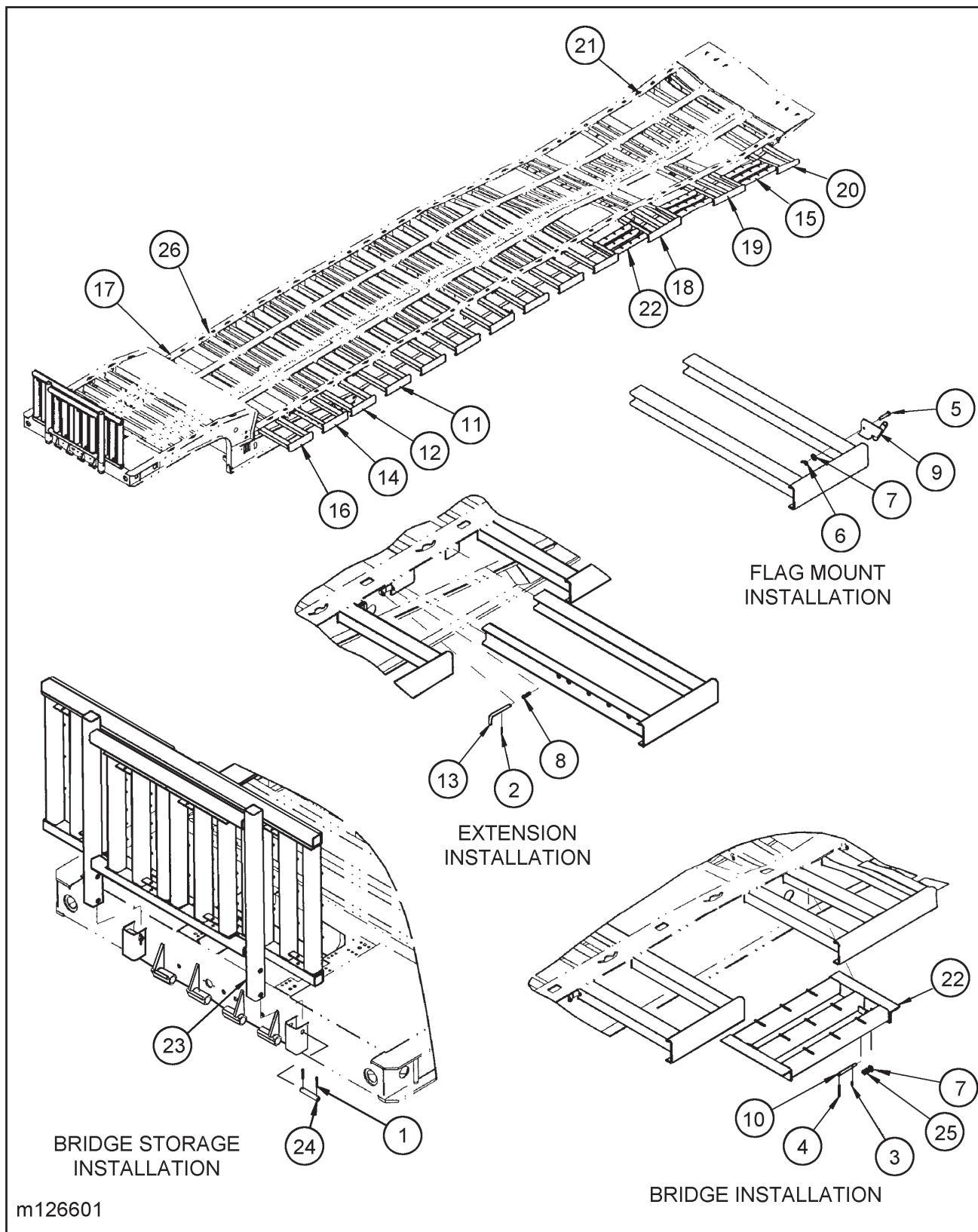
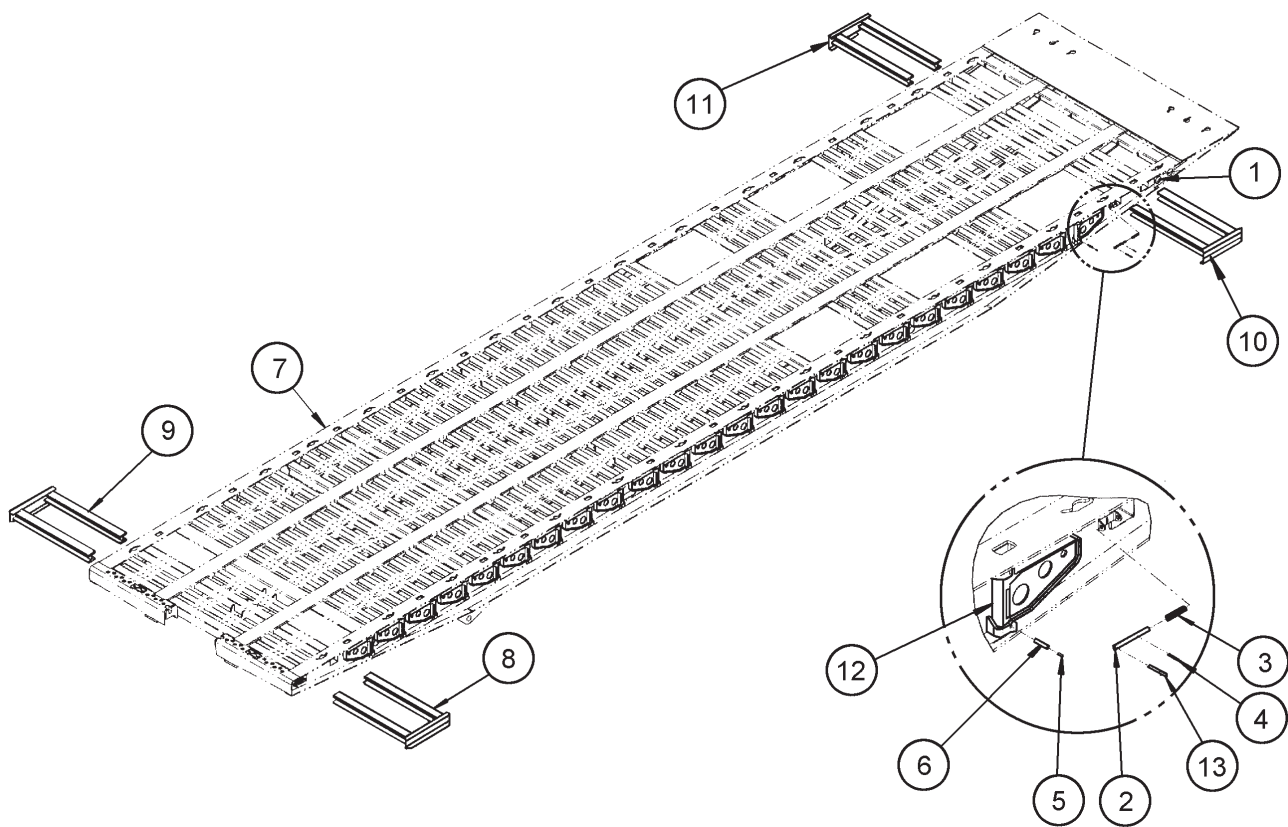


Figure 1-4 Pullout Installation

PULLOUT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.	
	126601	PULLOUT EXTENSION INSTALLATION (410-53)	*	
	120461	PULLOUT INSTALLATION (425-41)		*
1	1-557-010362-63	PIN, COTTER 1/4 X 2	4	4
2	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	26	20
3	0600-250-01000	PIN, ROLL 1/4 X 1	12	8
4	1-647-010004225	PIN, ROLL 1/4 X 3	12	8
5	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5 (410-53)	6	--
	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 (425-41)	--	6
6	1-533-010001	NUT, WING 1/2-13	6	6
7	1-861-010032-15	WASHER, FLAT 1/2W	18	8
8	104253	SPRING, COMPRESSION P/O ELX LOCK	26	20
9	108859	WELDMENT, BRACKET FLAG HOLDER	6	6
10	118723	PIN, SLIDE LOCK EXT	12	8
11	118929	PULLOUT ASSEMBLY LH	8	5
12	118930	PULLOUT ASSEMBLY RH	8	5
13	120457	PIN, P/O EXT LOCK	26	20
14	120459	PULLOUT ASSEMBLY FRT LH	1	1
15	120492	EXT. WLDMT REAR WHEEL WELL	4	2
16	122913	PULLOUT CLIPPED RH	1	2
17	122916	PULLOUT CLIPPED LH	1	2
18	126602	PULLOUT WELDMENT AL WHEEL WELL RH (410-53)	2	2
19	126603	PULLOUT WELDMENT AL WHEEL WELL LH (410-53)	2	2
20	126605	PULLOUT WELDMENT AL REAR LH (410-53)	1	
	120379	EXTENSION REAR P/O LH (425-41)	--	1
21	126606	PULLOUT WELDMENT AL REAR RH (410-53)	2	1
	120380	EXTENSION REAR P/O RH (425-41)	1	1
22	126609	EXTENSION WELDMENT FRT WHEEL WELL (410-53)	2	--
	120491	EXT. WLDMT FRT WHEEL WELL (425-41)	--	2
23	126610	RACK WELDMENT STORAGE EXT BRIDGES	1	1
24	6-557-010163	PIN, MAST CAT II	2	2
25	CO-975-74-2000	SPRING, COMPRESSION	12	8
26	120458	PULLOUT ASSEMBLY FRT RH	1	1
27	W214S-1	CABLE, 2 WIRE (NOT SHOWN) (425-41)	--	AR
28	120376	PULLOUT ASSEMBLY 18RH (NOT SHOWN) (425-41)	--	1
29	120377	PULLOUT ASSEMBLY 18LH (NOT SHOWN) (425-41)	--	1
30	120822	SUPPORT WELDMENT P/O EXT (NOT SHOWN) (425-41)	--	1
31	3-272-010021	ELECT BUTT SPLICE (NOT SHOWN) (425-41)	--	8
32	516-22PTL	RETAINING PIN MUD FLAP (NOT SHOWN) (425-41)	--	2

NOTE: 1ST QUANTITY SHOWN IS FOR P/N 126601; 2ND QUANTITY SHOWN IS FOR P/N 120461



m128020

Figure 1-5 Outrigger Installation (Option)

OUTRIGGER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128020	OUTRIGGER INSTALLATION (410-50)	
1	1-343-010007	GROMMET	2
2	128539	PIN, SLIDE LOCK	4
3	104253	SPRING, COMPRESSION P/O EXT LOCK	4
4	125520	ROLL PIN, SLOTTED 1/8 X 1-1/2	4
5	127711	ROLL PIN, SLOTTED 1/4 X 3/4	48
6	127712	ROLL PIN, SLOTTED 3/8 X 2-1/4	48
7	128010	FRAME WELDMENT (410-50)	REF
8	128226	PULLOUT WELDMENT FRONT LH	1
9	128227	PULLOUT WELDMENT FRONT RH	1
10	128228	PULLOUT WELDMENT REAR LH	1
11	128229	PULLOUT WELDMENT REAR RH	1
12	167-0022	OUTRIGGER CAST FOR 10 CHANNEL	48
13	1-647-010004225	ROLL PIN, SLOTTED 1/4 X 3	4

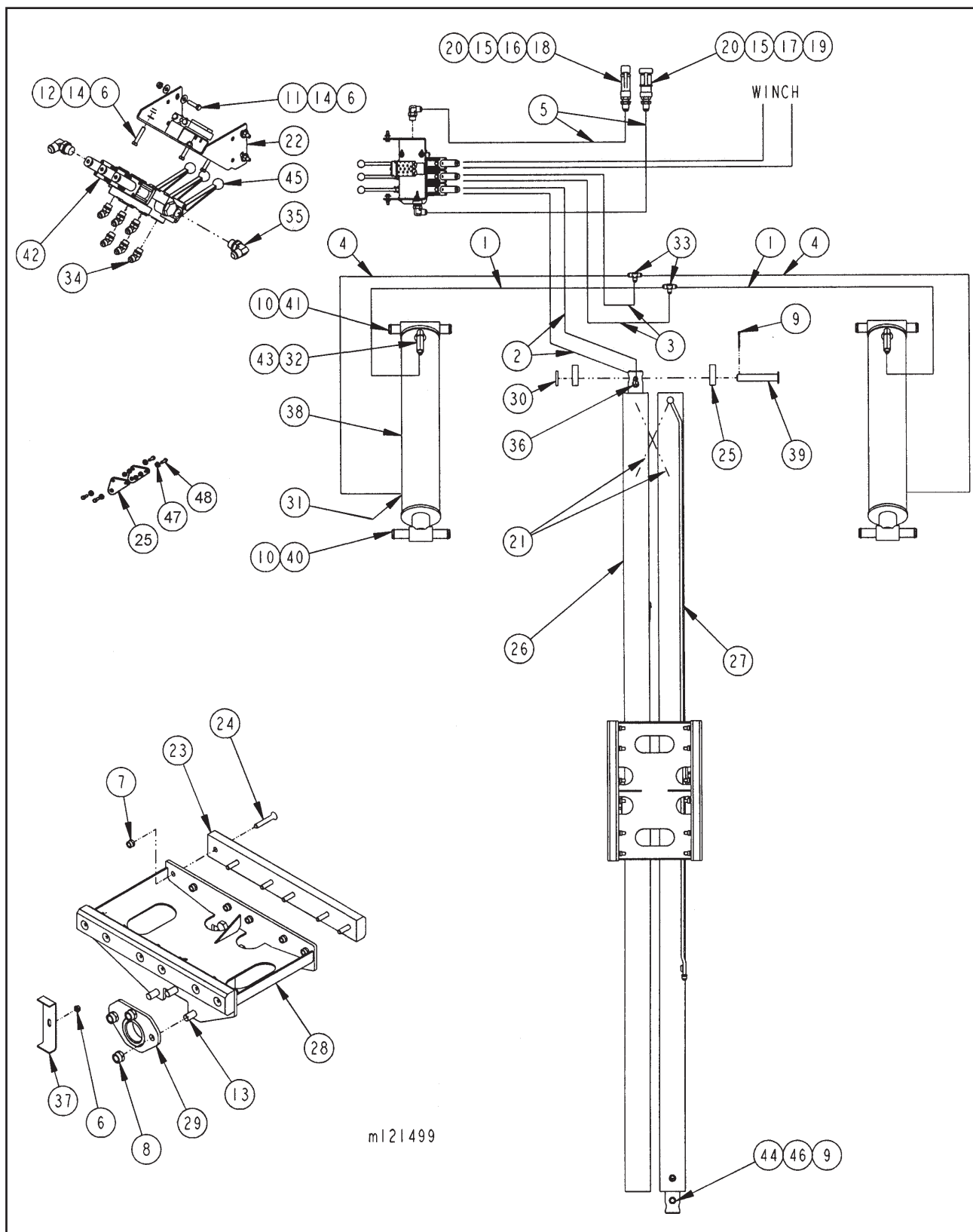


Figure 1-6 Hydraulic System

SCHEMATIC, HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-397-010301064	HOSE ASSEMBLY 1/2 X 64	
2	1-397-010301136	HOSE ASSEMBLY 1/2 X 136 (410-48, 410-50, & 425)	
	1-397-010301160	HOSE ASSEMBLY 1/2 X 160 (410-53 & 435)	
3	1-397-010302042	HOSE ASSEMBLY 1/2 X 42	
4	1-397-010302084	HOSE ASSEMBLY 1/2 X 84	
5	1-397-010305190	HOSE ASSY 3/4X190 (NOT USED W/ ENGINE PACKAGE)	
6	1-510-010001	NUT, HEX FLANGE LOCK 3/8-16	
7	1-510-010003-09	NUT, FLANGE HEAD SERR. 1/2-13	
8	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	
9	1-557-010362-54	PIN, COTTER 3/16 X 2-1/4	
10	1-630-010021-01	RING, 1.5 RETAINING HD (410 & 435)	
	120454	RING RETAINING 1.25 HD (425)	
11	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	
12	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16X2 GR5	
13	1-654-010061-03	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR5	
14	1-861-010032-11	WASHER, FLAT 3/8	
15	1-861-010059-21	WASHER, LOCK INTERNAL TOOTH 1-1/8"	
16	105479	COUPLER, FLAT FACE MALE	
17	105480	COUPLER, FLAT FACE FEMALE	
18	105481	COUPLER, DUST CAP MALE	
19	105482	COUPLER, DUST CAP FEMALE	
20	105483	ADAPTER, BULKHEAD	
21	111301	HOSE ASSEMBLY 1/2 X 36 (410-50 & 410-53)	
	1-397-010301024	HOSE ASSEMBLY 1/2 X 24 (410-48, 425, & 435)	
	1-397-010301039	HOSE ASSEMBLY 1/2 X 39 (410-48)	
	1-397-010301048	HOSE ASSEMBLY 1/2 X 48 (435)	
22	116837	VALVE MOUNT, CONTROL	
23	117386	NYLATRON SLIDE U/C CYL	
24	118627	SCREW, SOCKET FLANGE CTSK 1/2-13 X 3	
25	120476	WASHER, PLATE U/C CYL PIN (PRIOR 07/01/2003) (410-48/50/53 & 425-41)	
	127422	ANCHOR, CYL BOLT-ON (435-48/53) (410-48/50/53 AFTER 07/01/2003)	
	127691	ANCHOR, CYL BOLT-ON (435 CA) (425-41 AFTER 07/01/2003)	
26	121085	CYLINDER, HYD 4 X 126 (STREETSIDE) (410-50/53 & 435-48/50CA) (SEE PAGE 1-15)	
	117336	CYLINDER, HYD 4 X 100 (STREETSIDE) (410-48/50CA & 425-41) (SEE PAGE 1-13)	
	127198	CYLINDER, 4 X 138 PORTED ROD (STREETSIDE) (435-53)(SEE PAGE 1-17)	
27	121086	CYL, HYD 4 X 126 TRUN MNT (CURBSIDE) (410-48/50/50CA/53 & 435-48) (SEE PAGE 1-16)	
	117338	CYLINDER, HYD 4 X 100 (CURBSIDE) (425-41) (SEE PAGE 1-14)	
	127199	CYLINDER, 4 X 138 (CURBSIDE) (435-50CA/53) (SEE PAGE 1-18)	

SCHEMATIC, HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
28	121495	CHANNEL WELDMENT	
29	122621	BRACKET WELDMENT	
30	123150	WASHER, CYLINDER PIN	
31	2021-12-8S	ADAPTER (410 & 435) (PRIOR 05/20/2003)	
	202702-8-8S	ADAPTER (410 & 435) (AFTER 05/20/2003)	
	202702-10-8S	ADAPTER (425)	
32	2024-12-8S	ADAPTER, 90 (410 & 435) (PRIOR 05/20/2003)	
	2062-8-8S	ADAPTER (410 & 435) (AFTER 05/20/2003)	
	2062-10-8S	ADAPTER, 90 (425)	
33	2033-8-8S	ADAPTER TEE	
34	2061-8-8S	ADAPTER, 45	
35	2062-12-12S	ADAPTER, 90	
36	2062-8-8S	ADAPTER, 90	
37	3-181-010006	CLAMP, HOSE LARGE	
38	3-242-010189	CYLINDER, LIFT 6X41 (410 & 435) (SEE PAGE 1-20)	
	117400	CYLINDER, LIFT 4-1/2 X 30 (425) (SEE PAGE 1-19)	
39	3-557-010033	PIN, CYL BUTT END (PRIOR 07/01/2003)	
		(410-48/50/53, 425-41 & 435-53)	
	3-557-010031	PIN, CYL U/C (AFTER 07/01/2003)	
		(410-48/50/53, 425-41 & 435-48/53)	
40	3-557-010470-01	PIN, CYL BUTT END (410 & 435)	
	120452	PIN, TILT CYLINDER (425)	
41	3-557-010470-02	PIN, CYL ROD END (410 & 435)	
	120452	PIN, TILT CYL. (425)	
42	3-846-010008	VALVE 3 SPOOL 2500 PSI (SEE PAGE 1-25)	
	117365	VALVE ASSY 3 SPOOL MOTOR THIRD (410-48 MTR SPL)	
		(SEE PAGE 1-25)	
43	3-846-010155	VALVE, RESTRICTOR, 1/16-ONE WAY (410 & 435)	
	3-846-010156	VALVE, RESTRICTOR, 3/64-ONE WAY (425)	
44	3-557-010120	PIN, U/C CYLINDER (425-41 PRIOR 07/01/2003)	
	3-557-010033	PIN, CYL BUTT END (435-53 PRIOR 07/01/2003)	
		(410-48/50/53 PRIOR & AFTER 07/01/2003)	
	3-557-010031	PIN, CYL U/C (AFTER 07/01/2003)	
		(425-41 & 435-48/53)	
45	1V1703	HANDLE	
46	1-861-010032-29	WASHER, FLAT 1-1/4W	
47	1-861-010032-21	WASHER, FLAT 3/4	
48	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5	

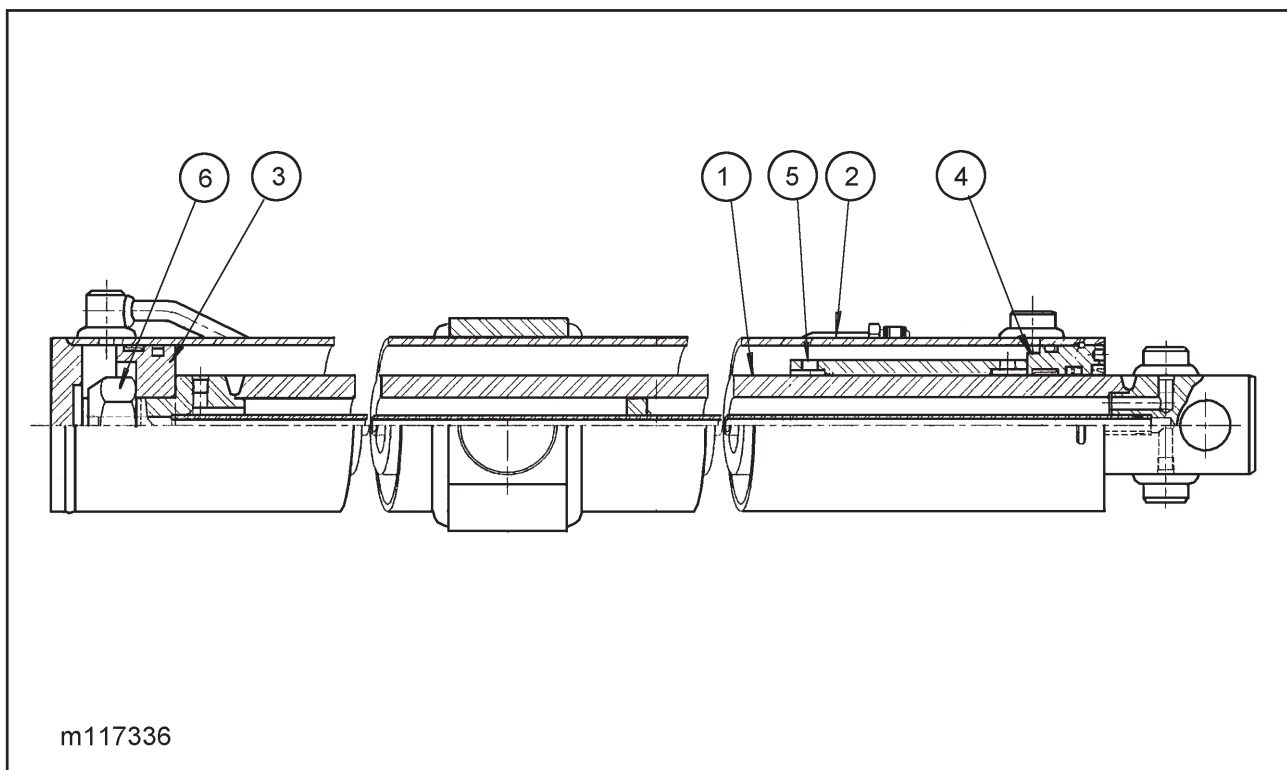


Figure 1-7 Cylinder, Hydraulic 4 x 100 (Streetside)
(410-48, 410-50CA, & 425-41)

CYLINDER, HYDRAULIC 4 X 100 (STREETSIDE) (410-48/50CA, & 425-41)

ITEM	PART NO.	DESCRIPTION	QTY.
	117336	CYLINDER, HYDRAULIC 4 X 100	
1	125190	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125187	SPACER	1
6	125183	LOCKNUT 1-3/8-12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

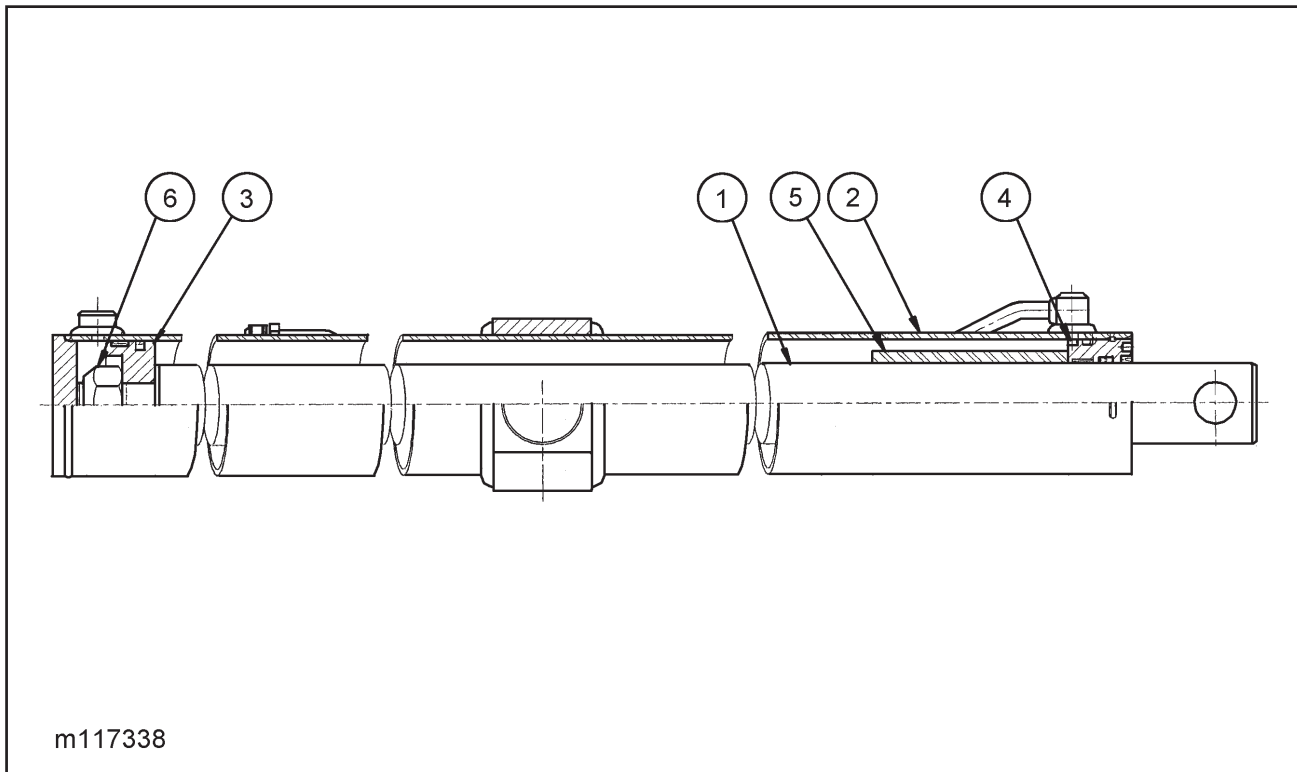


Figure 1-8 Cylinder, Hydraulic 4 x 100 (Curbside)
(410-48 & 425)

CYLINDER, HYDRAULIC 4 X 100 (CURBSIDE) (425-41)

ITEM	PART NO.	DESCRIPTION	QTY.
	117338	CYLINDER, HYDRAULIC 4 X 100	
1	125188	PISTON ROD	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125182	SPACER	1
6	125183	LOCKNUT 1-3/8-12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

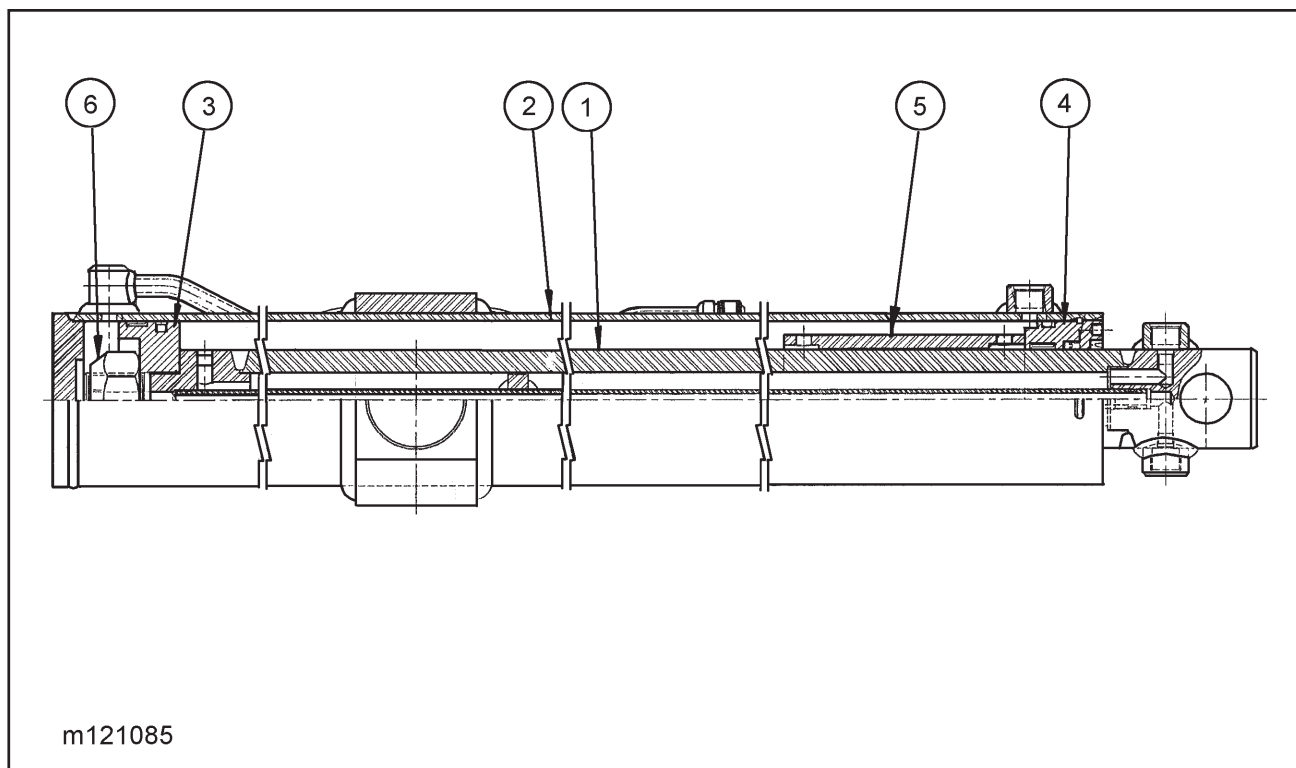


Figure 1-9 Cylinder, Hydraulic 4 x 126 (Streetside)
(410-50/53 & 435-48/50CA)

CYLINDER, HYDRAULIC 4 X 126 (STREETSIDE) (410-50/53 & 435-48/50CA)

ITEM	PART NO.	DESCRIPTION	QTY.
	121085	CYLINDER, HYDRAULIC 4 X 126	
1	125185	PISTON TUBE ASSEMBLY	1
2	----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125187	SPACER	1
6	125183	LOCKNUT 1-3/8 - 12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

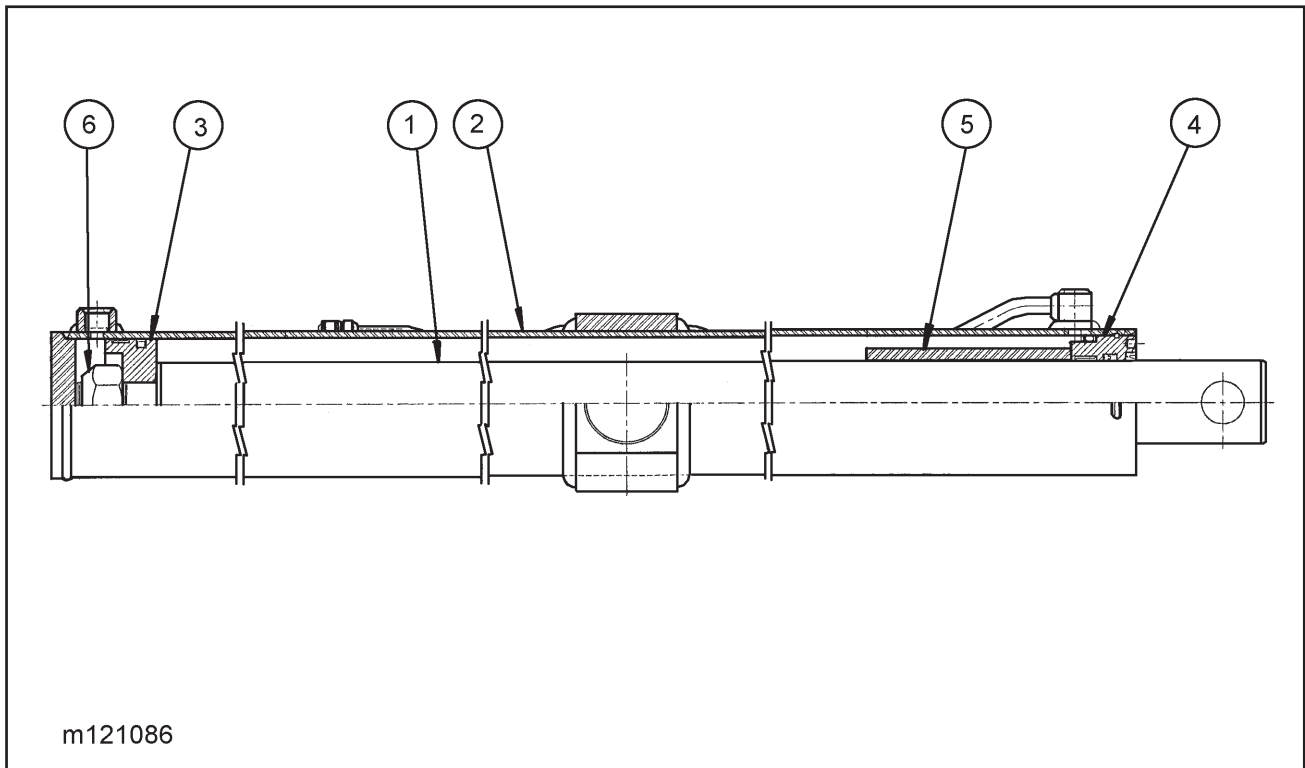


Figure 1-10 Cylinder, Hydraulic 4 x 126 (Curbside)
(410-48/50/50CA/53, 435-48)

CYLINDER, HYDRAULIC 4 X 126 (CURBSIDE) (410-48/50/50CA/53, 435-48)

ITEM	PART NO.	DESCRIPTION	QTY.
	121086	CYLINDER, HYDRAULIC 4 X 126	
1	125179	PISTON ROD	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125182	SPACER	1
6	125183	LOCKNUT 1-3/8 - 12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

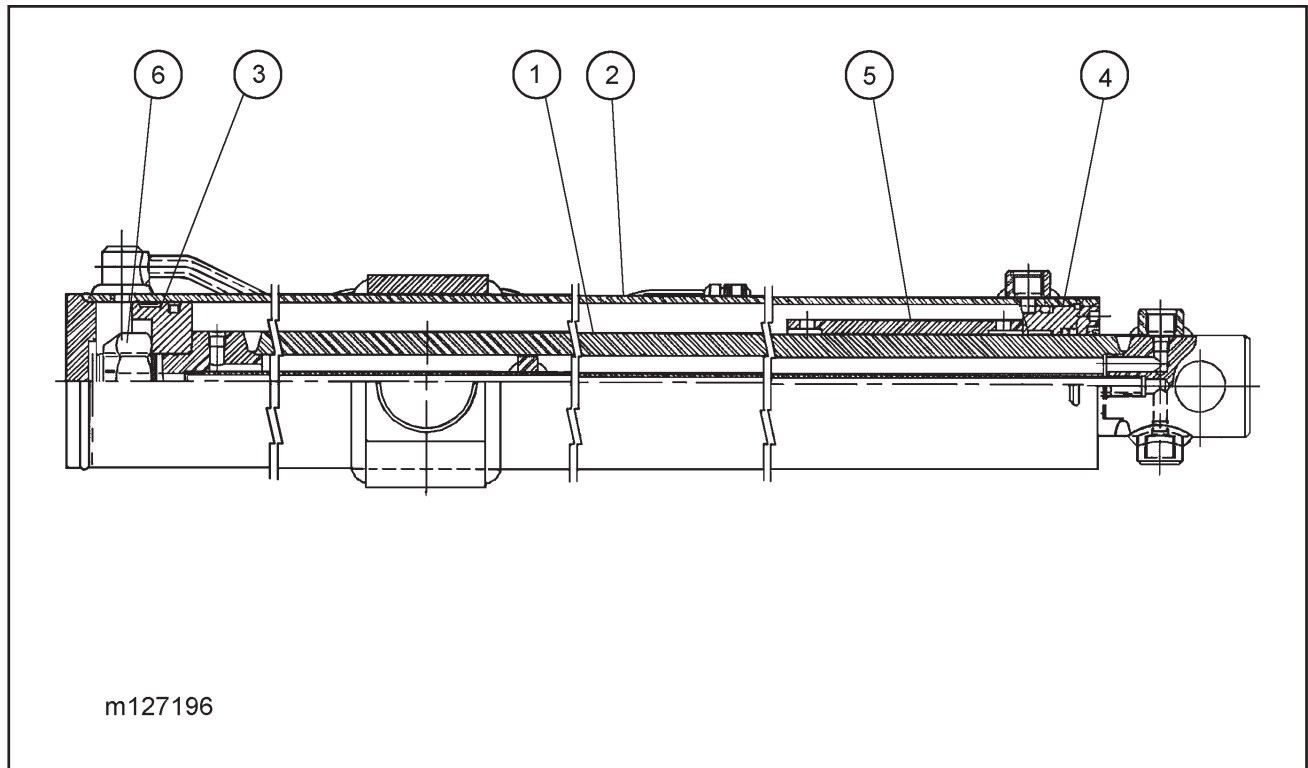


Figure 1-11 Cylinder, Hydraulic 4 x 138 Ported Rod (Streetside)
(435-53)

CYLINDER, HYDRAULIC 4 X 138 PORTED ROD (STREETSIDE) (435-53)

ITEM	PART NO.	DESCRIPTION	QTY.
	127198	CYLINDER, HYDRAULIC 4 X 138 PORTED ROD	
1	127993	PISTON TUBE ASSEMBLY	1
2	----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125187	SPACER	1
6	125183	LOCKNUT 1-3/8 - 12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

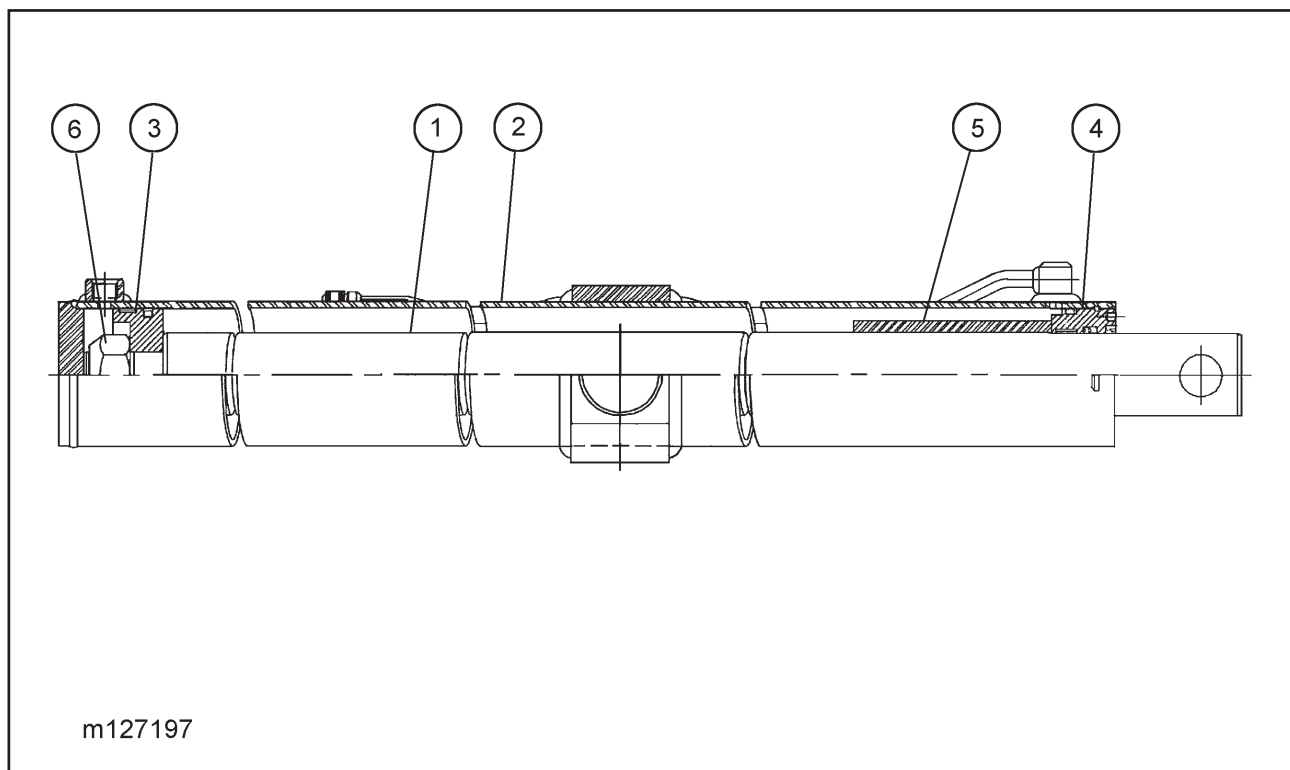


Figure 1-12 Cylinder, Hydraulic 4 x 138 (Curbside)
(435-50CA/53)

CYLINDER, HYDRAULIC 4 X 138 (CURBSIDE) (435-50CA/53)

ITEM	PART NO.	DESCRIPTION	QTY.
	127199	CYLINDER, HYDRAULIC 4 X 138	
1	127995	PISTON ROD	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	125180	PISTON	1
4	125181	GLAND	1
5	125187	SPACER	1
6	125183	LOCKNUT 1-3/8 - 12	1
	125184	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

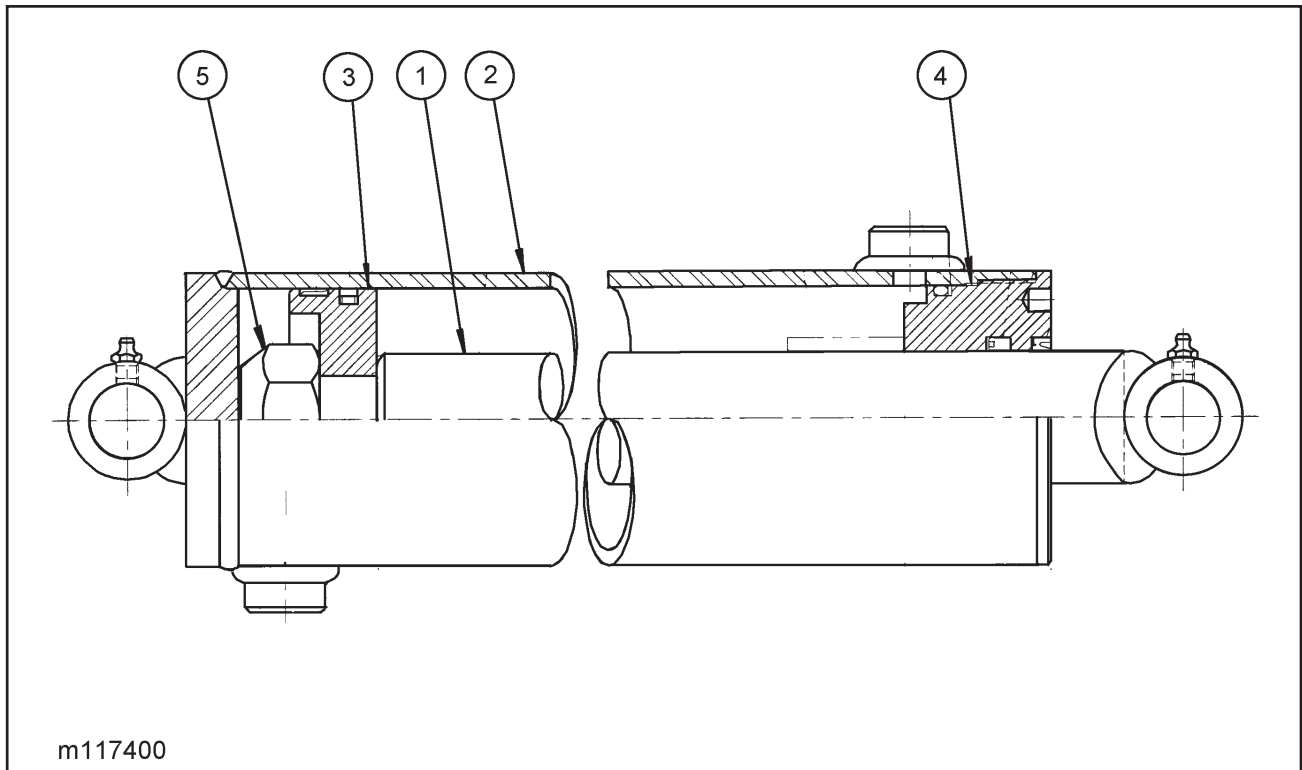
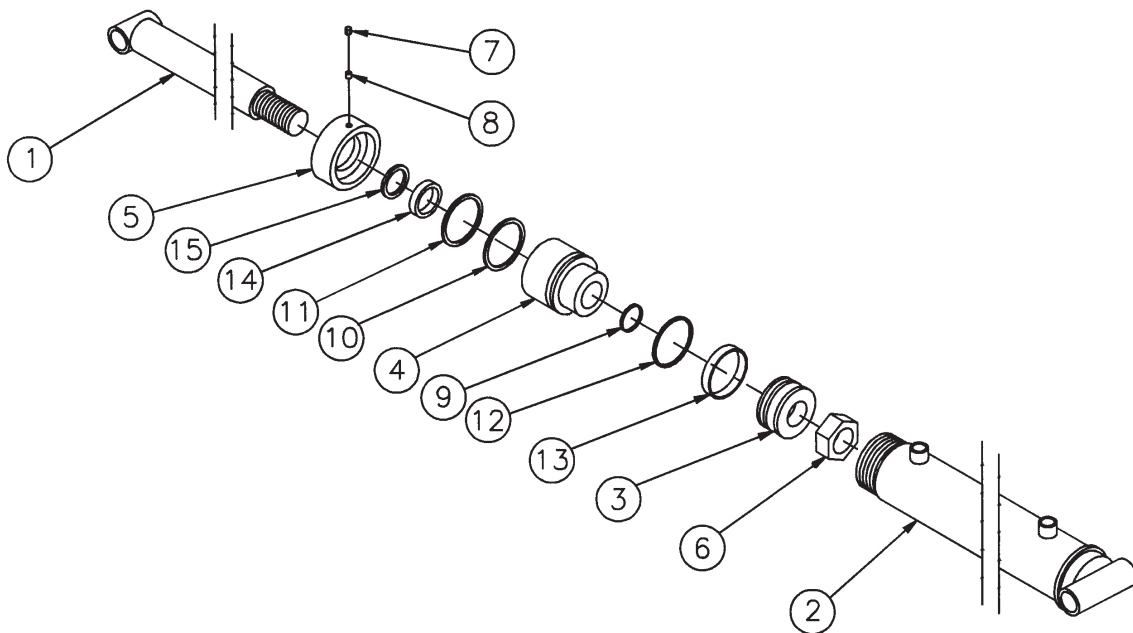


Figure 1-13 Cylinder, Hydraulic 4-1/2 x 30 (425)

CYLINDER 4-1/2 X 30 (425)

ITEM	PART NO.	DESCRIPTION	QTY.
	117400	CYLINDER HYDRAULIC 4-1/2 X 30	
1	125192	PISTON ROD ASSY	1
2	----	BUTT AND TUBE ASSY	1
3	125193	PISTON	1
4	125194	GLAND	1
5	114098	LOCKNUT 1-1/2-12	1
	125196	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

* PARTS AVAILABLE IN PACKING KIT ONLY.



3m242-010189

Figure 1-14 Cylinder 6" X 41" (410 & 435)

CYLINDER 6" X 41" (410 & 435)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010189	CYLINDER HYDRAULIC 6" X 41" (PRINCE PMC-22030)	
1	021500077	PISTON ROD ASSY	1
2	062300414	BUTT AND TUBE ASSY	1
3	072300150	PISTON	1
4	082300208	GLAND	1
5	262300011	GLAND CUP	1
6	220000218	NUT, LOCK	1
7	220000701	SET SCREW	1
8	220000853	NYLON LOCK	1
9*	----	O-RING	1
10*	----	O-RING	1
11*	----	BU-WASHER	1
12*	----	CROWN SEAL	1
13*	----	BEARING RING	1
14*	----	U-CUP	1
15*	----	WIPER	1
	PMCK-22000	PACKING KIT (CONTAINS ITEMS 9 THROUGH 15)	

* PARTS AVAILABLE IN PACKING KIT ONLY.

NOTE: CYL. HAD 3/4 NPTF PORTS PRIOR 05/30/03; HAS 1/2 SAE O-RING PORTS AFTER 05/30/03

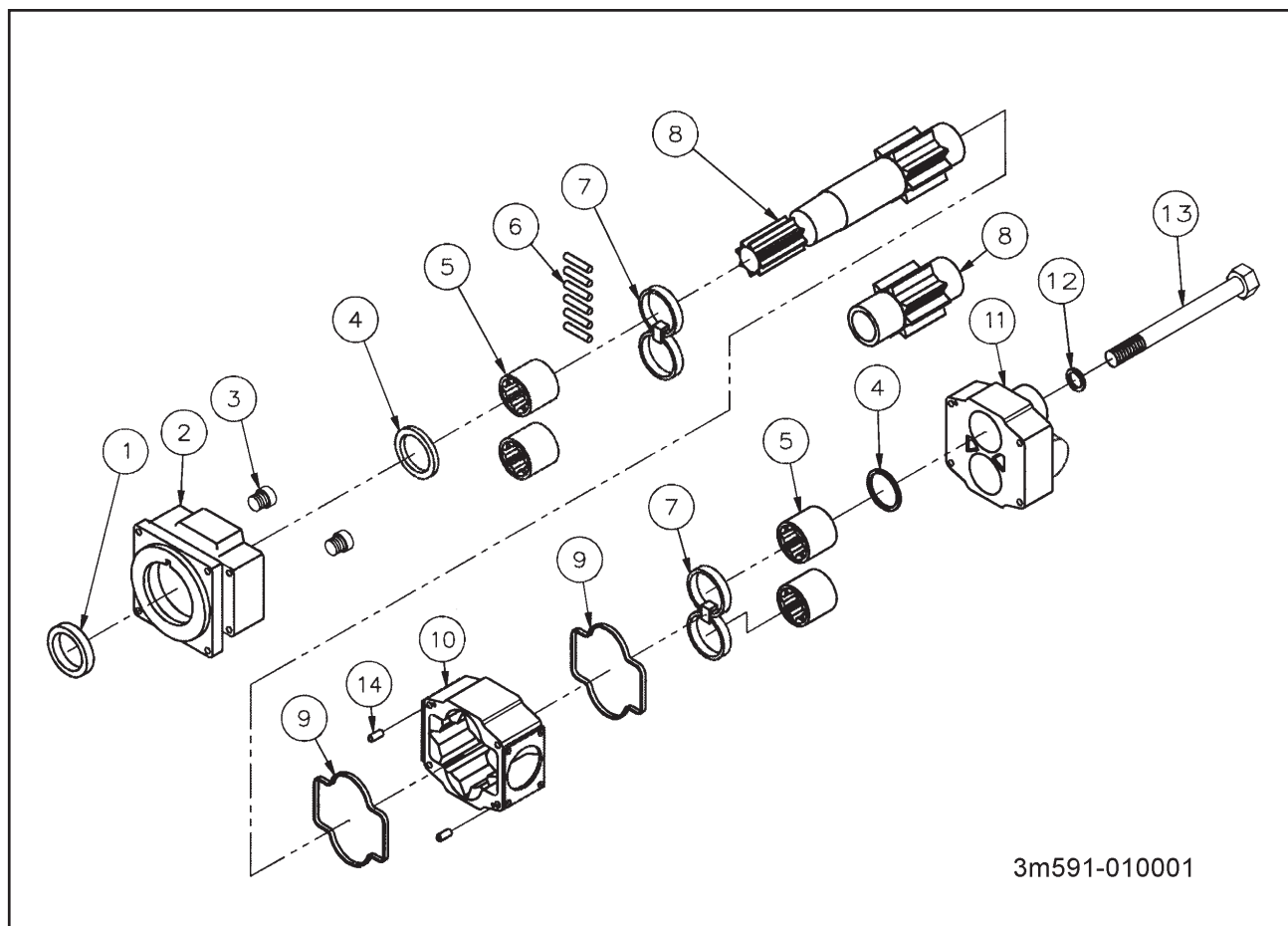


Figure 1-15 Pump, Wet Kit Hydraulic

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, ASSY.	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
15	391-1802-119	SEAL KIT	

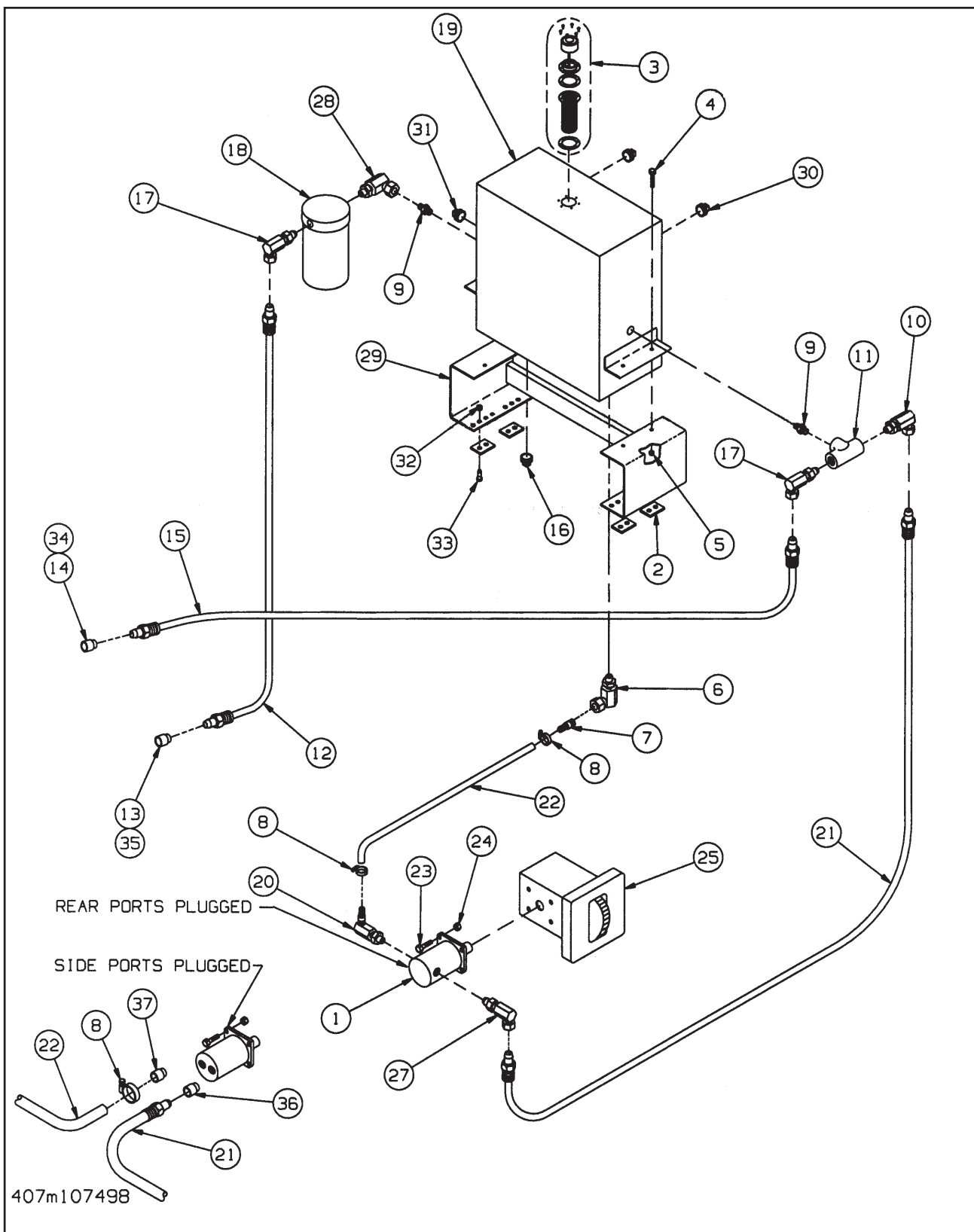


Figure 1-16 Transmission Mounted Wet Kit Items

HYDRAULIC WET KIT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	3-591-010001	HYDRAULIC GEAR PUMP (SEE PAGE 1-21)	1
2	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
3	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
4	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16X1-1/4 GR5	4
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
6	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
7	3-561-010001	HOSE BARB 1-1/4	1
8	6828	IDEAL HOSE CLAMP	2
9	C3069X12	NIPPLE HEX	2
10	2024-12-8S	ADAPTER 90	1
11	125130	RD12D HYD BY PASS SRDD	1
12	106760	HOSE 3/4 X 164	1
13	105479	COUPLER FLAT FACE MALE NOSE	1
14	105480	COUPLER FLAT FACE FEMALE BODY	1
15	106759	HOSE ASSEMBLY 1/2 X 164	1
16	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
17	2024-12-12S	ADAPTER 90	2
18	1-295-010001	FILTER, RETURN	1
	1-295-010002	FILTER ELEMENT	1
19	3-786-010043	TANK, HYDRAULIC	1
20	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
21	1-397-010301100	HOSE ASSEMBLY 1/2 X 100	1
22	3-399-010001	HOSE 1-1/4 X 4 - 0" SUCTION	8'
23	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
24	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
25	PTO	POWER TAKE OFF	*1,—
27	2062-16-8S	ADAPTER, 90	1
28	2047-12-12S	ELBOW 90 SWIVEL	1
29	3-482-010503	TANK MOUNT	1
30	1-560-010002-05	PIPE PLUG 3/4	2
31	1-560-010002-04	PIPE PLUG 1/2	1
32	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
33	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	4
34	105482	COUPLER, DUST CAP FEMALE	1
35	105481	COUPLER, DUST CAP MALE	1
36	12-16 070120	ADAPTER	1
37	107513	ADAPTER	1

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

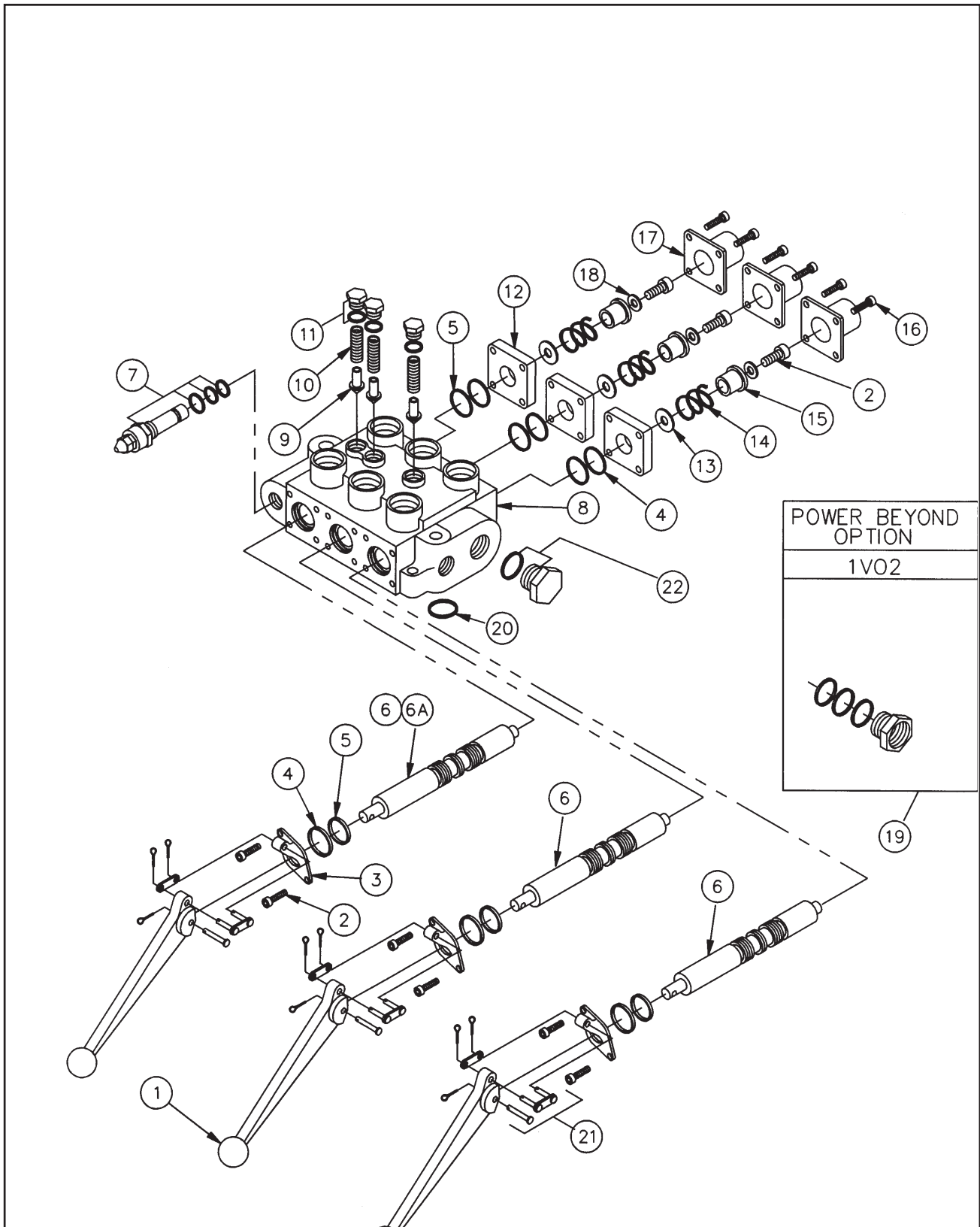


Figure 1-17 Three Spool Valve

VALVE, THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010008	VALVE ASSEMBLY, THREE SPOOL**	
	117365	VALVE ASSY 3 SPOOL MOTOR THIRD (410-48 MTR SPL)**	
1	1V1703	VALVE, HANDLE	3
2	2A0079-404	CAP SCREW (TIGHTEN TO 7 - 11 FT.-LBS.)	9
3	4Z4306	BRACKET, HANDLE	3
4	1A0711	WASHER, O-RING SPOOL	6
5	2A0283-7214	SEAL, SPOOL	6
6	*	SPOOL, 4-WAY	**3,2
6A	*	MOTOR SPOOL, 4-WAY	**0,1
7	1R0017	RELIEF ASSEMBLY (1500 - 3000 PSI)(PRESET @ 2500 PSI)	1
8	*	HOUSING, VALVE	1
9	1V0081	POPPET, LOAD CHECK	3
10	1A0757	SPRING, LOAD CHECK	3
11	1V1725	PLUG, LOAD CHECK	3
12	1A0709	SPACER, END	3
13	1A0291	WASHER, STOP	3
14	1A0744	SPRING, CENTERING	3
15	1A0292	COLLAR, STOP	3
16	2A0079-406	CAP SCREW (TIGHTEN TO 7 -11 FT.-LBS.)	12
17	1A0294	CAP, END	3
18	1A0290	WASHER, CENTERING SPRING	3
19	1V0208	ADAPTER ASSEMBLY, REMOTE POWER BEYOND (Contains all necessary O-rings)	1
20	2A283-7214	GROMMET, RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG, CONVERSION	1
23	2V0010	SEAL KIT	

* NOT SOLD SEPARATELY.

** COMPONENT IS 3-SPOOL VALVE WITH 2ND STAGE MOTOR SPOOL USED IN PLANE-TARY WINCH APPLICATIONS.

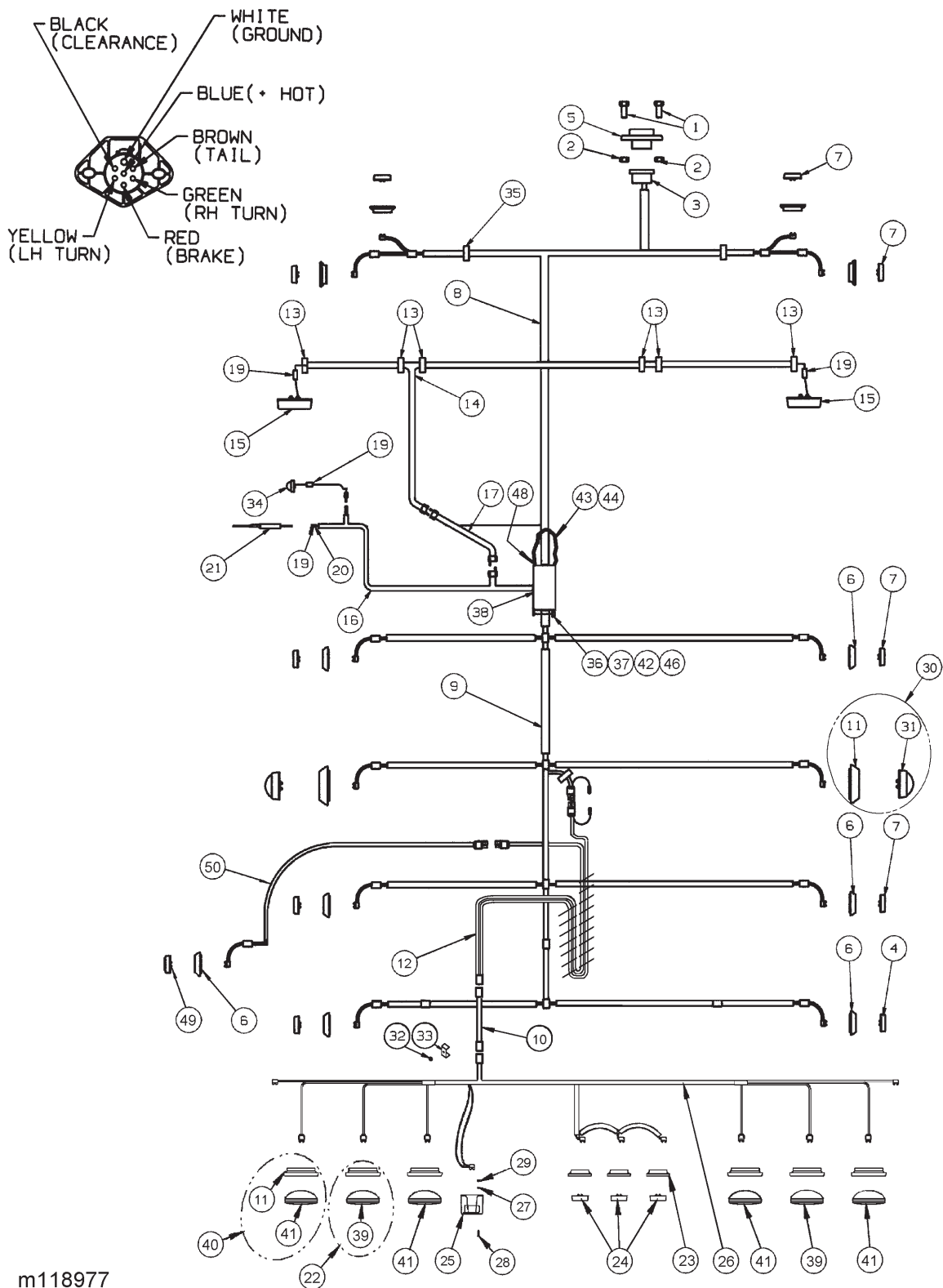


Figure 1-18 Electrical System Schematic

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	118977	ELECTRICAL INSTALLATION (410-48,425-41)	
	121500	ELECTRICAL INSTALLATION STD (410-50)	
	124597	ELECTRICAL INSTALLATION (410 LED)	
	125839	ELECTRICAL INSTALLATION (425-41 LED)	
	B3-272-076	WORK LIGHT INSTALLATION	
	117377	EXTRA LED LIGHTS 3 PER SIDE	
1	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
2	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
3	59W-2-3	BOOT, RUBBER	1
4	10205R	LAMP, RED REFLECTOR	2
	116139	LIGHT, RED LED 2.5 CL/MKR	2
5	59S-7	RECEPTACLE, 7-PIN	1
6	10403	GROMMET MOUNT	6
7	10205Y	LAMP, YELLOW REFLECTOR	8
	116140	LIGHT, AMBER LED 2.5 CL/MKR	8
8	3-368-010120	HARNESS ASSY, FRT, MAIN	1
9	3-368-010177	HARNESS ASSY. BED 660-48	1
	3-368-010197	HARNESS ASSY. BED 660-53	1
10	102728	HARNESS ASSY, U/C MAIN	1
11	60700	GROMMET, LIGHT	2
12	102836	HARNESS ASSY, E-CHAIN ABS	1
13	1-343-010010	GROMMET, 9/16 HOLE	6
14	3-368-010250	HARNESS, BLKHD LIGHTS - 600/317	1
15	64181	LAMP, RECT QUARTZ HALOGEN	2
16	3-368-010253	HARNESS ASSY, CONTROL PANEL 600	1
17	3-368-010252	HARNESS ASSY, BLKHD LIGHT EXT. 600	1
18	114583	HARNESS, MOD BUMPER LED (NOT SHOWN)	1
19	STP147	CONNECTOR, BULLET MALE	2
20	STP164	CONNECTOR, BULLET FEMALE	1
21	3-272-010017	TOGGLE SWITCH, SEALED	1
22	108647	LIGHT TURN YEL W/ GROMMET (INCL. 11 & 39)	2
23	107598	GROMMET RECT. CL/MKR LAMP	7
24	107599	LIGHT RED CLEARANCE MARKER	3
	113374	LIGHT RED LED CL/MKR	3
25	15009	LICENSE LAMP	1
26	106652	HARNESS, BUMPER	1
27	1-861-010034-07	WASHER, SPLIT LOCK #10	2
28	1-654-010024055	SCREW, MACH SLOTTED FIL HEAD #10-24 X 1-1/4	2
29	1-512-010007-03	NUT, HEX 10-24	2
30	60015Y	LIGHT, TURN & CLEARANCE W/GROM.(INCL.11&31)	2
31	60215Y	LAMP ONLY, TURN CLEARANCE	2
	94926	PLUG W/ PIGTAIL	2
	111925	LIGHT LED TURN MARKER YELLOW	2
32	1-510-010001	NUT, FLANGE 3/8-16	AR
33	2-181-010001	CLAMP, HOSE	AR
34	26331	LIGHT, PANEL	1
35	1-343-010007	GROMMET, CABLE	2

SCHEMATIC, ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
36	1-861-010032-06	WASHER, FLAT 1/4	2
37	1-512-010007-05	NUT, HEX 1/4-20 GRB (USED W/ STD LIGHTS)	2
	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB (USED W/ LED LIGHTS)	2
38	750-029	JUNCTION BOX, 7 STUD	1
39	60202Y	LAMP, REAR AMBER TURN	2
	116134	LIGHT, YELLOW OVAL TURN	2
	121377	LIGHT, YELLOW LED STT	2
40	106371	LIGHT, TURN-TL-STOP W/ GROMMET (INCL 11 & 41)	4
	116131	LIGHT, RED LED S/T/T	1
41	60202R	LAMP, STOP TAIL 3 X 7 RED	REF
42	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4	REF
43	3-203-010001	TERMINAL, RING 3/16 X 10 AWG	1
44	1-879-010010	WIRE, 14 AWG X 12" WHITE	1
46	1-861-010034-09	WASHER, SPLIT LOCK 1/4	2
47	1-796-010003-02	TIE WRAPS (NOT SHOWN)	2
48	239-3646-5	TERMINAL RING 1/4 X 14AWG	1
49	3-446-010046	LIGHT ABS LAMP 2.5" DIA AMBER - ABS ONLY	1
50	3-368-010294	HARNESS, TAN ABS LAMP	1
51	3-272-010021	CONNECTOR, BUTT W/SEAL 12 GA (NOT SHOWN)	4
52	3-156-010008	CABLE 14-2 SO TWO CONDUCTOR (NOT SHOWN)	AR
53	3-181-010034-1	CLAMP, CONDUIT STEEL 1/2 (NOT SHOWN)	12

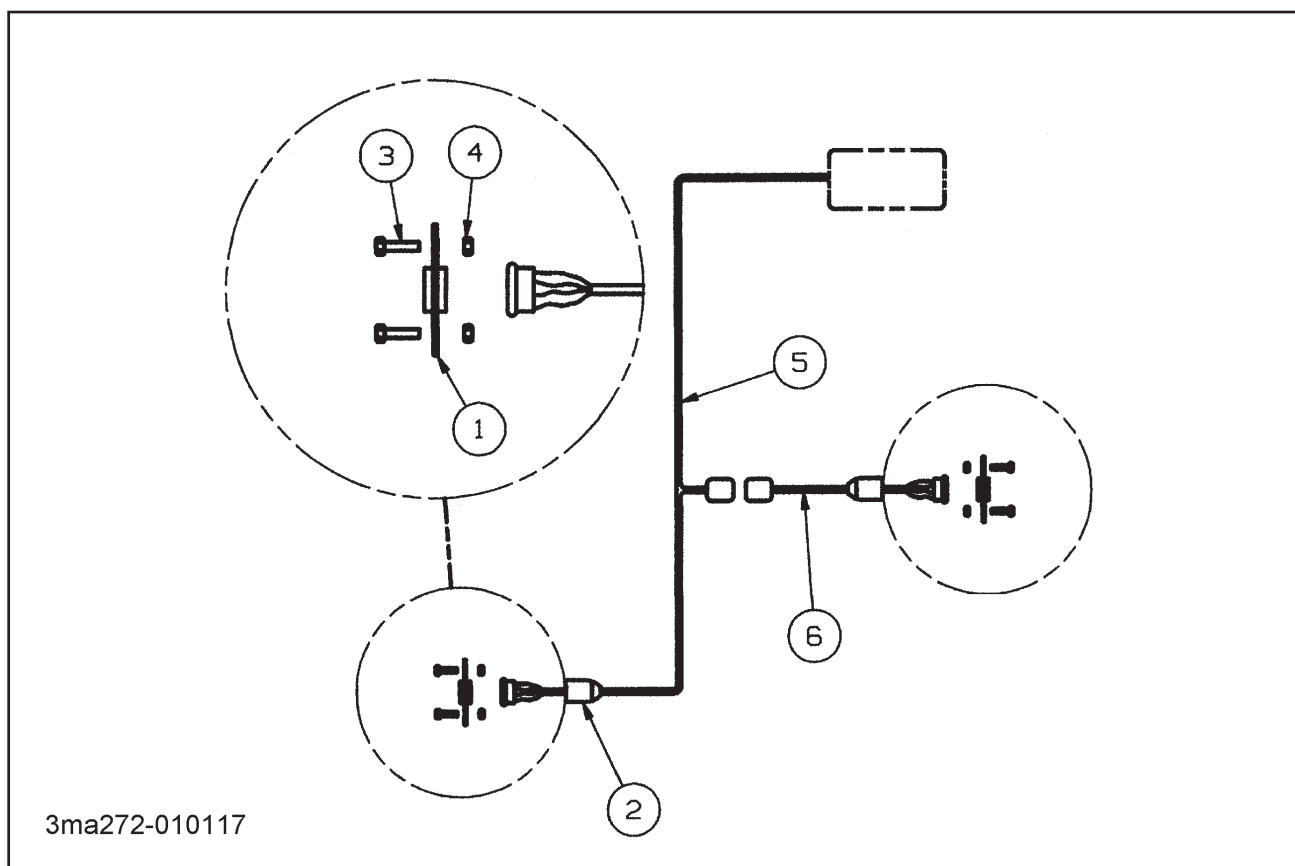
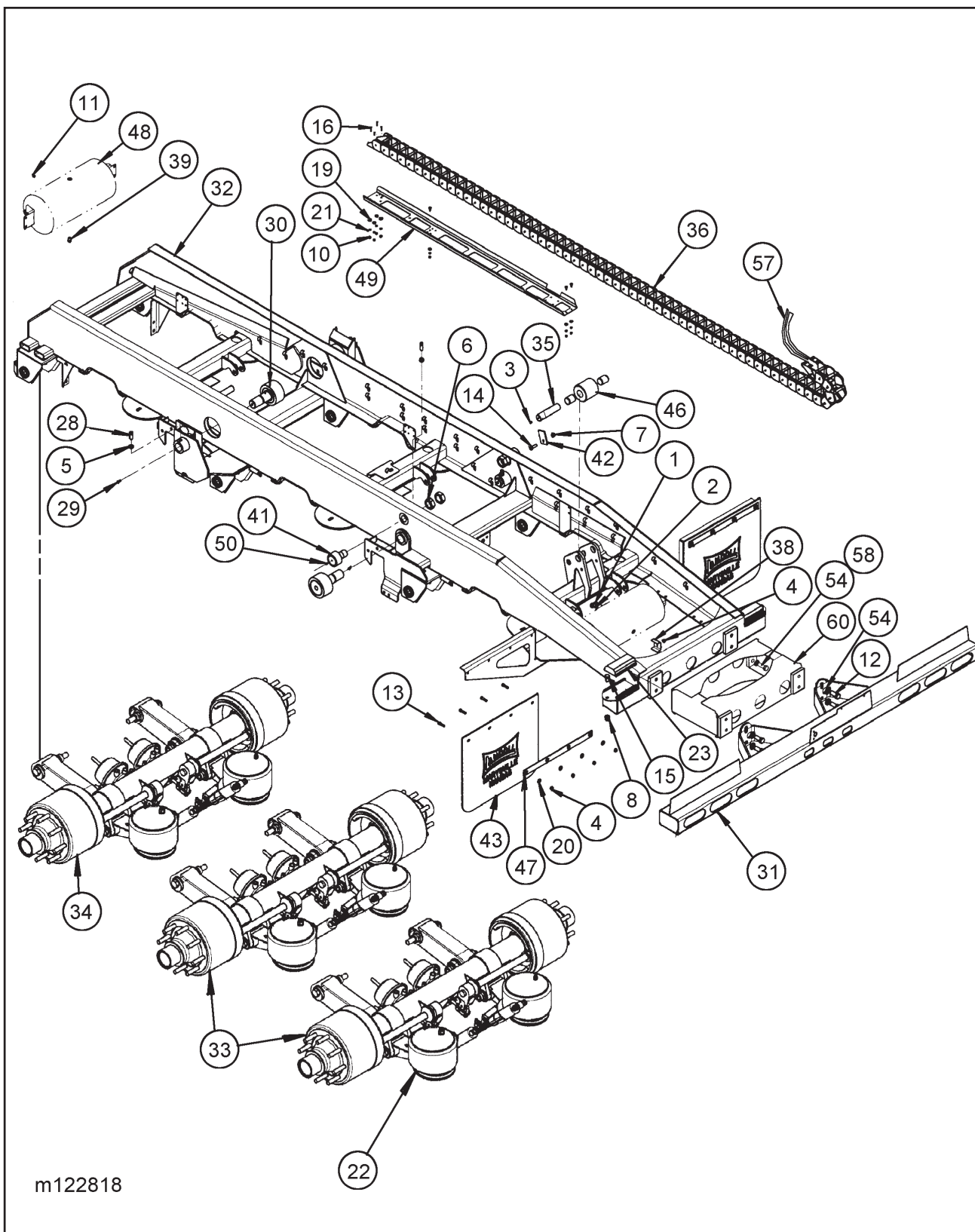


Figure 1-19 Electrical Installation - Rear Remote

ELECTRICAL INSTALLATION - REAR REMOTE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010117	ELECTRICAL INSTALLATION - REAR REMOTE	
1	3-272-010125	RECEPTACLE 7 PIN	*1,2
2	59W-2-3	RUBBER BOOT	*1,2
3	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4	*2,4
4	1-512-010005-03	NUT, HEX LOCK 5/16-18	*2,4
5	3-368-010190	HARNESS, REAR REMOTE 48'	1
	3-368-010201	HARNESS, REAR REMOTE 53'	1
6	3-368-010191	HARNESS, CURB SIDE	1

* 1ST QUANTITY LISTED IS FOR STREET SIDE REMOTES; 2ND QUANTITY LISTED IS FOR STREET AND CURB SIDE REMOTES.



m122818

Figure 1-20 U/C Assembly, Air Ride Suspension (410)

UNDERCARRIAGE ASSY, AIR RIDE SUSPENSION (410)

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	SUSPENSION U/C ASSY A/R ABS 2512-70.5 D/L	*
	-----	SUSPENSION U/C ASSY A/R ABS 2512-70.5	*
	123437	EXTENSION INST 410-50 CA BUMPER (INCL 54,58-60)	*
1	1-297-010013-16	FITTING, AIR 45	1
2	1-297-010018-04	FITTING, TEE 1/4	1
3	1-298-010001-1	ZERK FITTING 1/4	1
4	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
5	1-511-010001-07	NUT, HEX JAM 5/8-11	4
6	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
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
10	1-512-010007-05	NUT, HEX 1/4-20 GRB	7
11	1-560-010002-02	PLUG, PIPE 3/8	1
12	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	4
13	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
14	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	1
15	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
16	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	7
19	1-861-010032-07	WASHER, FLAT 1/4	7
20	1-861-010032-11	WASHER, FLAT 3/8W	8
21	1-861-010034-09	WASHER, SPLIT LOCK 1/4	7
22	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-41)	3
23	102698	NYLATRON RUB PLATE	2
28	108958	SCREW, SQ. HD. SET 5/8-11 X 1-1/2	4
29	110-4950	FITTING, GREASE 1/4	4
30	117560	CAM FOLLOWER 5" DIA	4
31	119580	BUMPER WELDMENT E/P 102	1
32	121074	SUSPENSION WELDMENT (PRIOR 07/01/2003)	1
	128672	SUSPENSION WELDMENT (AFTER 07/01/2003)	
33	121077	AXLE WELDMENT A/R 2512 SPG 70.5 X 36	2
34	121078	AXLE WELDMENT A/R 2512 SER 70.5 X 36 (FOR BREAKDOWNS, SEE PAGE 1-39)	1
35	121686	PIN, 1-1/2 X 6-1/4	1
36	122536	SUPPORT E-CHAIN 410	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0)	58
	385-06	E-CHAIN CROSSBAR	116
	38-01-075	E-CHAIN SIDE PIECE - LH	58
	38-02-075	E-CHAIN SIDE PIECE - RH	58
38	2-181-010001	CLAMP, HOSE	1
39	2081-8-4S	REDUCER	1
41	3-076-010022	CAM FOLLOWER 3" DIA	2
42	3-187-010013	CLIP, PIN RETAINER	1
43	3-485-010001	MUD FLAP, 21"	2
46	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
47	3-762-010017	CLAMP, MUD FLAP	2
48	3-780-010002	TANK, AIR	REF
49	3-821-010005	TRAY, CAT TRACK	1
50	5029	ZERK, 1/4 STR DRIVE -IN	2
54	622-3511-008	WASHER, 3/4N	4
55	103816	AIR SYSTEM, U/C ABS TRI. (SEE PAGE 1-44)	1
56	103084	SUSP. AIR SYS TRIDEM (SEE PAGE 1-35)	1
57	102836	HARNESS ASSEMBLY, E-CHAIN ABS	1
58	1-654-010032-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR8(CALIF.)	4
60	123405	EXTENSION WELDMENT BUMPER	1
61	121498	DOCK LEVELER ASSEMBLY (SEE PAGE 1-101)	1

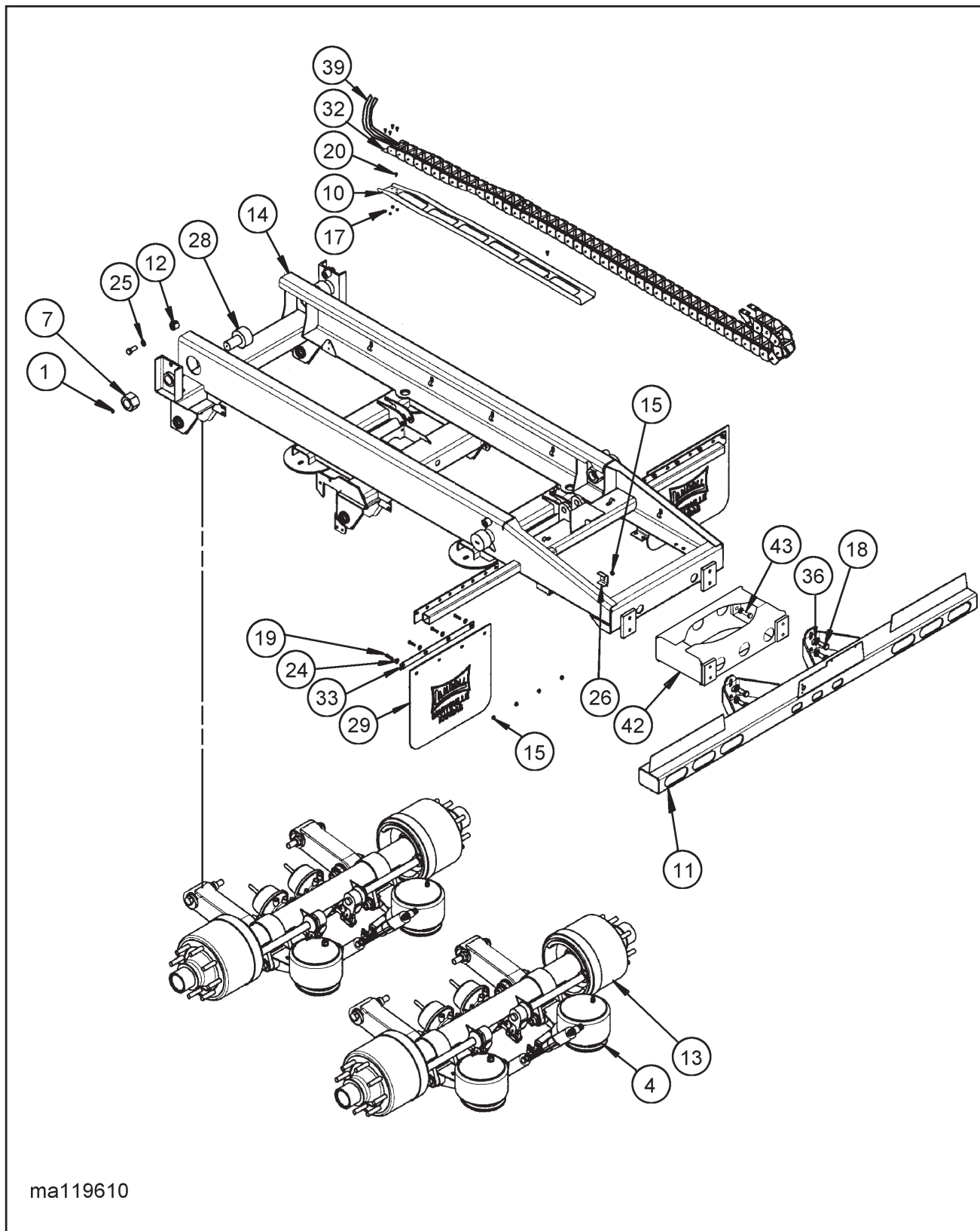


Figure 1-21 U/C Assembly, Air Ride Suspension (425 & 435)

U/C ASSEMBLY, AIR RIDE SUSPENSION (425 & 435)

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	SUSPENSION U/C ASSY A/R ABS 2512-70.5	
	-----	SUSPENSION U/C ASSY A/R ABS 2512-70.5 D/L	
1	5029	ZERK, 1/4 STR DRIVE -IN	4
4	102363	SUSP ADJ RLU-228-3.5 (SEE PAGE 1-41)	2
7	104034	NUT, HEX 2-12 GR2	4
10	118897	TRAY, E-CHAIN	1
11	119580	BUMPER WELDMENT E/P 102	1
12	120451	HOLD DOWN 425 U/C	4
13	121077	AXLE WELDMENT A/R 2512 SPG 70.5 X 36 (SEE PAGE 1-39)	2
14	122272	SUSPENSION WELDMENT US425	1
15	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
17	1-512-010007-05	NUT, HEX 1/4-20 GRB	7
18	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	8
19	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
20	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	7
22	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	AR
24	1-861-010032-11	WASHER, FLAT 3/8W	8
25	1-861-010034-17	WASHER, SPLIT LOCK 3/4	4
26	2-181-010001	CLAMP, HOSE	1
28	3-076-010005	BEARING, 4IN CAM FOLLOWER	4
29	3-485-010001	MUD FLAP, 21"	2
32	122536	SUPPORT E-CHAIN (435)	1
	3-755-010189	SUPPORT E-CHAIN (425)	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0)	*58, 48
	385-06	E-CHAIN CROSSBAR	*116, 96
	38-01-075	E-CHAIN SIDE PIECE - LH	*58, 48
	38-02-075	E-CHAIN SIDE PIECE - RH	*58, 48
33	3-762-010017	CLAMP, MUD FLAP	2
36	622-3511-008	WASHER, 3/4N	4
37	122630	AIR SYSTEM, U/C 425 ABS (SEE PAGE 1-44)	1
	127579	AIR SYSTEM, U/C 435 ABS (SEE PAGE 1-44)	1
38	103082	SUSPENSION AIR SYS. 49" TANDEM (SEE PAGE 1-35)	1
39	102836	HARNESS ASSEMBLY, E-CHAIN ABS	1
40	121498	DOCK LEVELER ASSEMBLY (SEE PAGE 1-101)	1
41	124559	SPACER, D/L MOUNT (NOT SHOWN)	8
42	127732	EXTENSION WELDMENT BUMPER 16"	1
43	1-654-010032-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR8	4

* FIRST QUANTITY SHOWN IS FOR P/N 122536; SECOND QUANTITY SHOWN IS FOR P/N 3-755-010189

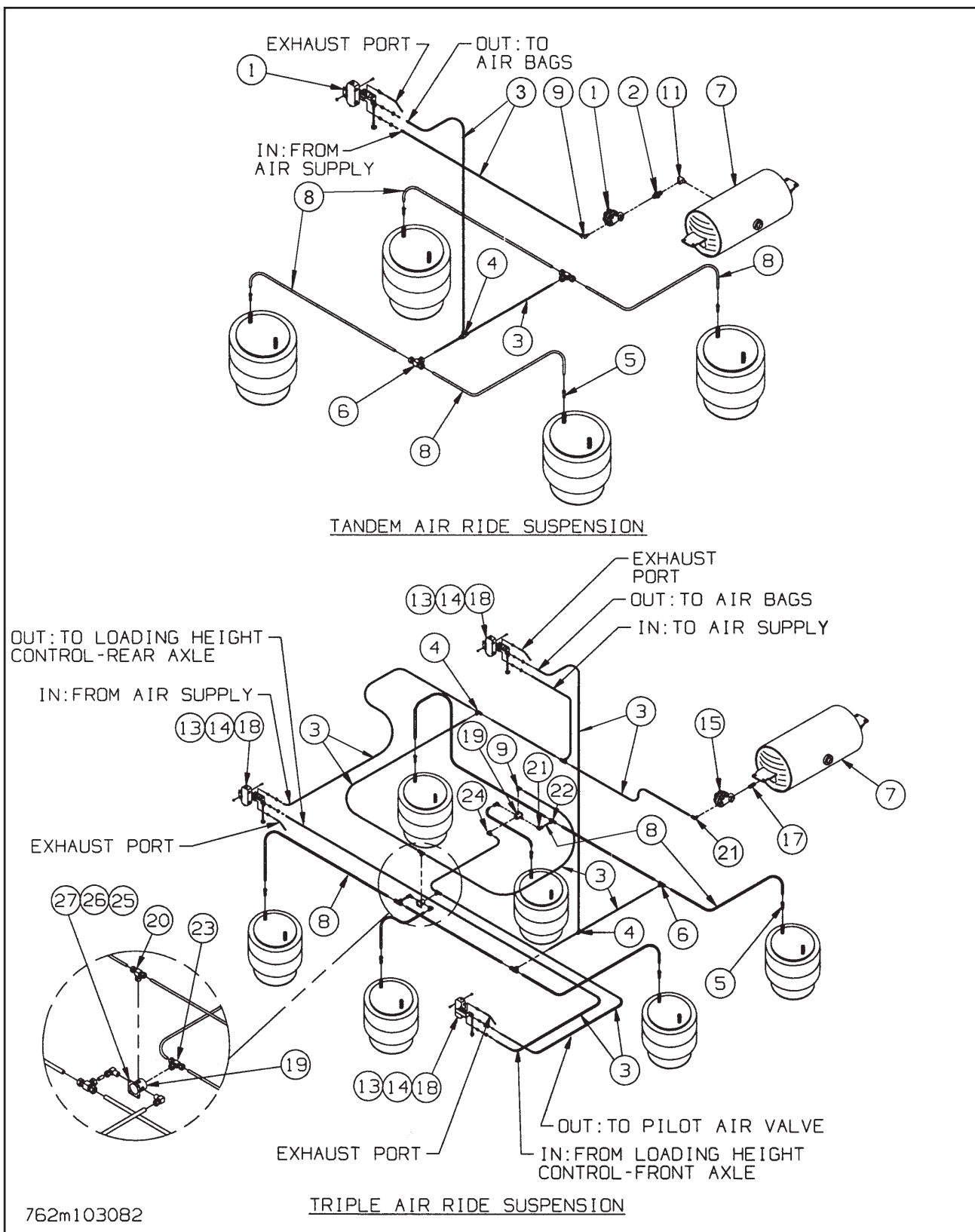


Figure 1-22 Air Ride Suspension, Air System

AIR RIDE SUSPENSION AIR SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.	
			TANDEM	TRIPLE
	103082	AIR RIDE, AIR SYSTEM (TANDEM)	*	
	103084	AIR RIDE, AIR SYSTEM (TRIPLE)		*
1	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-37)	1	--
2	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1	--
3	1-833-010001	TUBING NYLON 1/4 OD	AR	AR
4	1-297-010010-01	FITTING AIR UNION TEE	1	3
5	1-297-010007-11	FITTING AIR	4	6
6	1-297-010010-04	FITTING AIR UNION TEE	2	2
7	3-780-010002	TANK AIR	REF	REF
8	1-833-010002	TUBING NYLON 3/8 OD	AR	AR
9	1-297-010008-07	FITTING AIR 90	1	1
11	1-297-010018-04	FITTING BRASS PIPE STREET TEE	1	--
13	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	--	6
14	1-654-010047-04	SCREW HEX HEAD CAP 1/4-20 X 3/4 GR5	--	6
15	905-54-107	BRAKE PROTECTION VALVE	--	1
16	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	15	15
17	2083-8-4S	NIPPLE HEX	--	1
18	3-843-010034	VALVE AIR RIDE HEIGHT CONTROL	--	3
19	900-54-079	PILOT VALVE	--	2
20	1-297-010015-03	FITTING AIR BRANCH TEE	--	1
21	1-297-010008-18	FITTING AIR 90	--	4
22	1-297-010010-03	FITTING AIR UNION TEE 3/8	--	2
23	1-297-010015-02	FITTING AIR BRANCH TEE	--	1
24	1-297-010008-05	FITTING AIR 90	--	1
25	1-656-010003051	SCREW RH HD MACH #10-24 X 3/4	--	8
26	1-861-010034-07	WASHER SPLIT LOCK #10	--	8
27	1-512-010007-03	NUT HEX 10-24	--	8

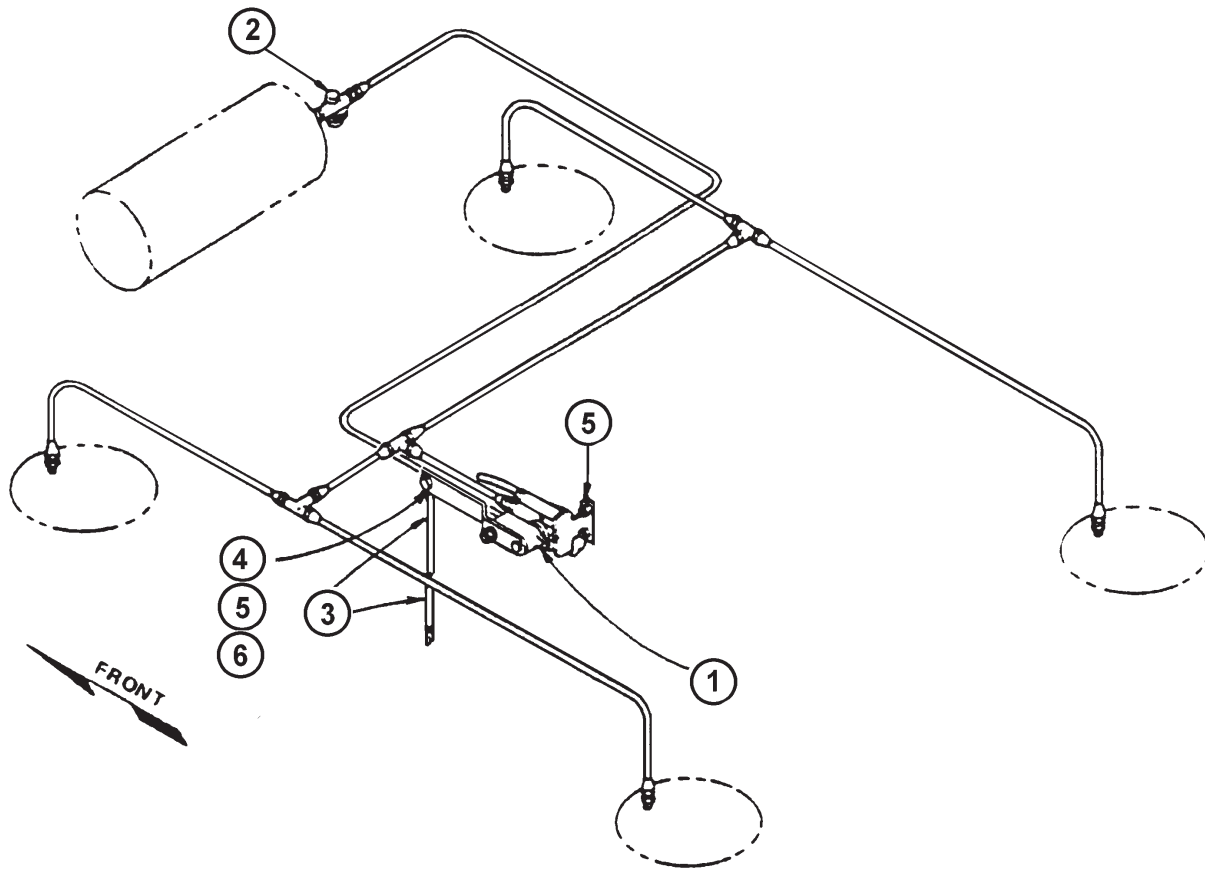
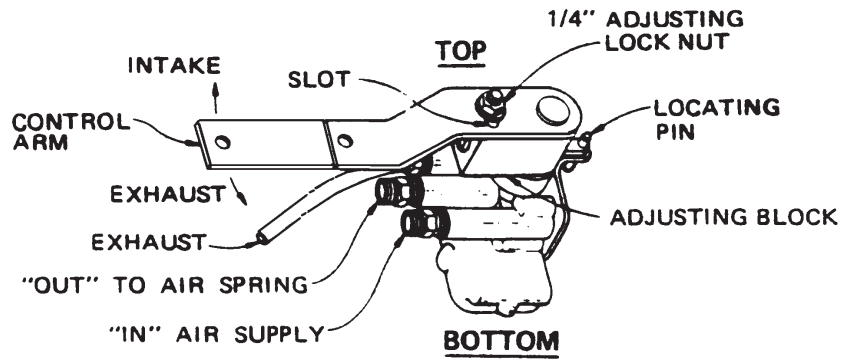
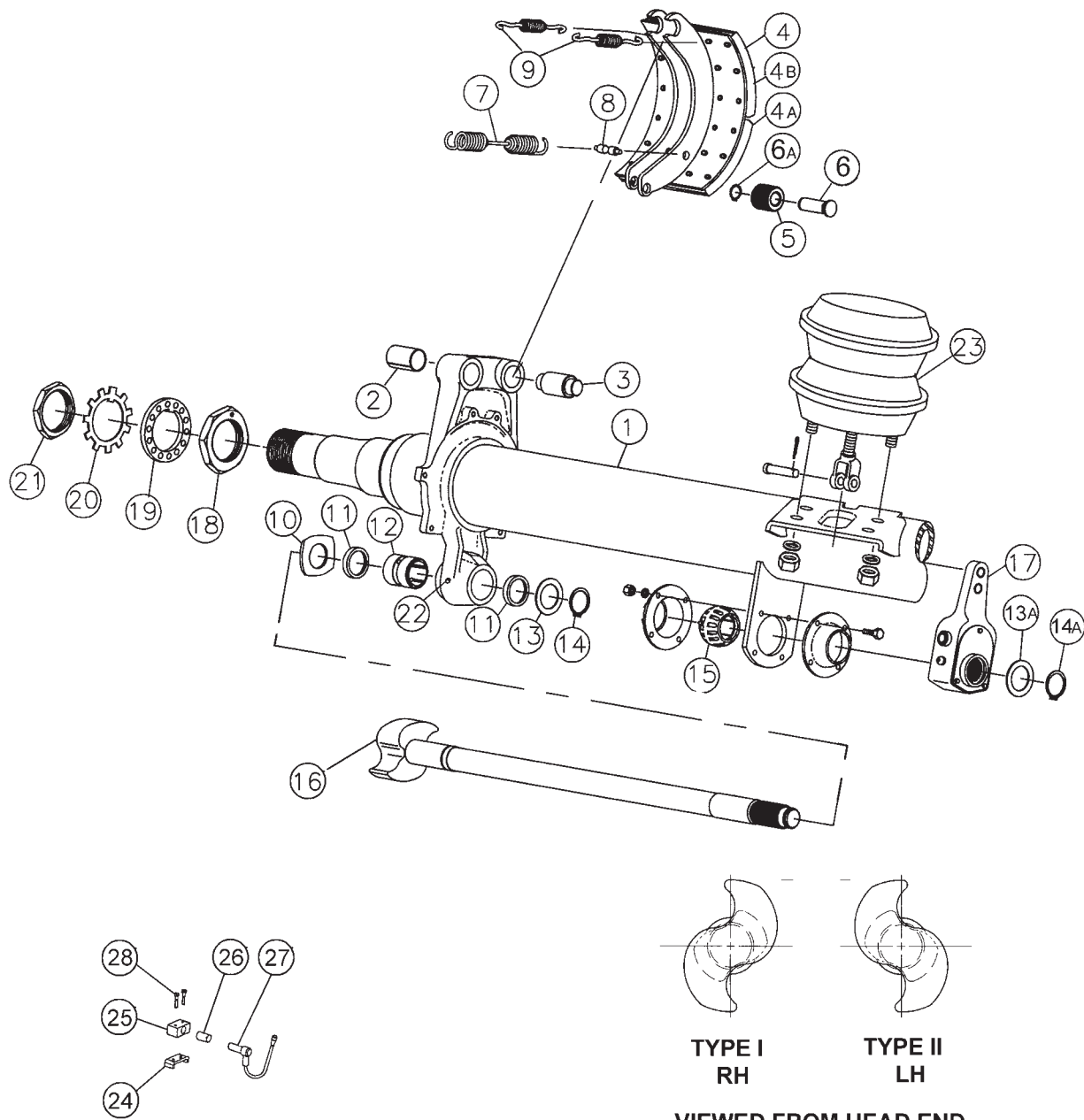


Figure 1-23 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	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



m115703

Figure 1-24 Axle and Brake Assembly

AXLE AND BRAKE ITEMS (DEXTER)

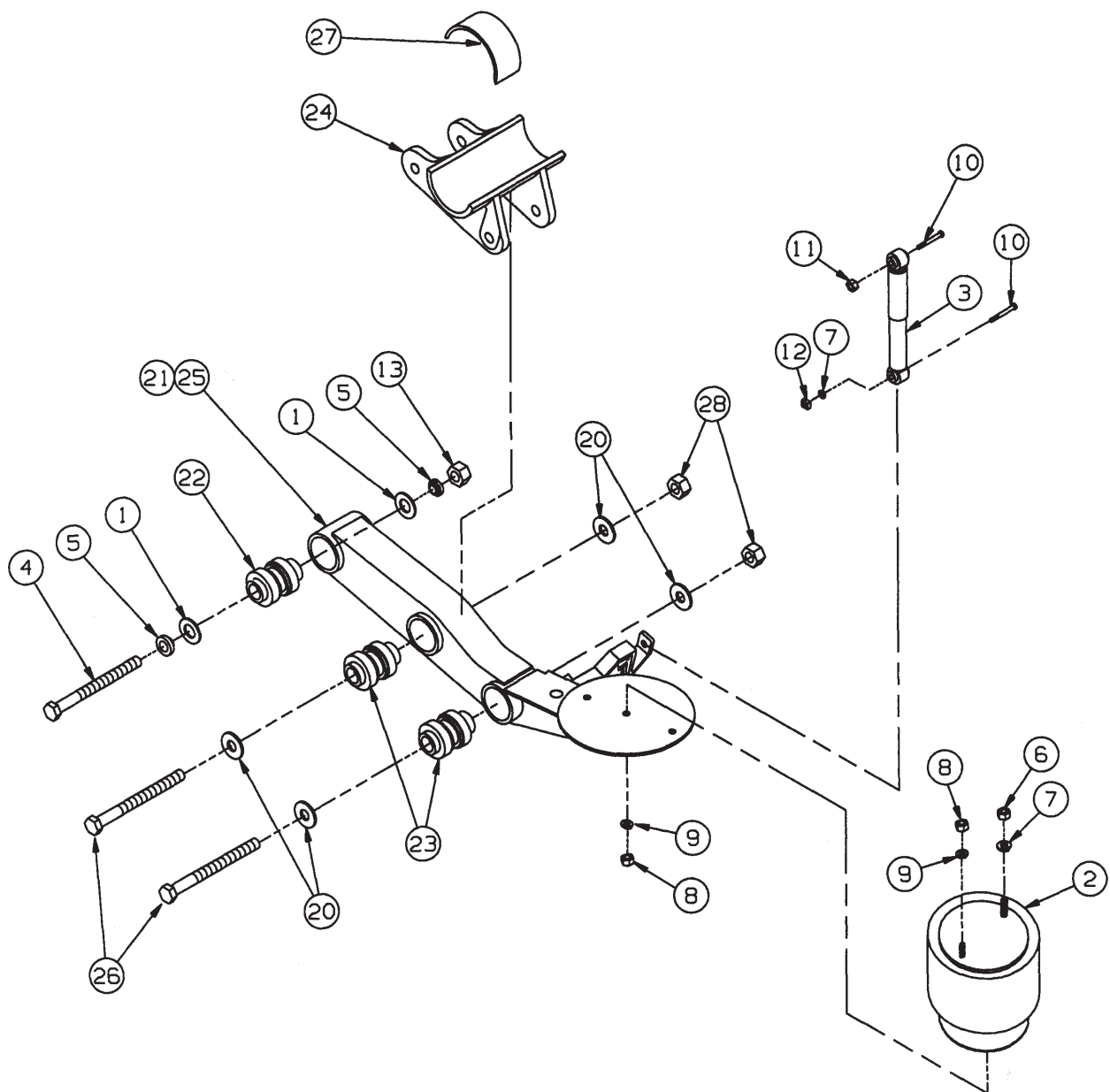
ITEM	PART NO.	DESCRIPTION	QTY.
	115703	AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BK (25K)	
	115708	AXLE 70-1/2, 12-1/4 X 7-1/2 SER BK (25K)	
1A*	D-2H12	BEAM W/ BRACKETS	1
	**K71-460-00	BRAKE SHOE HDWR KIT (ITEMS 2, 3, 5, 6, 6A, 7, & 8)	
2**	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	056-017-00	PIN, ANCHOR	4
4	040-320-01	SHOE AND LINING ASSEMBLY	4
4A	041-060-01	LINING - BRAKE BLOCK CAM	2
4B	041-057-01	LINING - BRAKE BLOCK ANCHOR	4
	K71-133-00	BRAKE BLOCK KIT (ITEMS 4A AND 4B)	4
5**	014-057-00	ROLLER	4
6**	056-010-00	RETAINER, ROLLER PIN	8
6A**	069-018-00	RETAINER RING	8
7**	046-092-00	SPRING, SHOE RETRACTOR	2
8**	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	KEEPER SPRING	4
	***K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
10***	005-074-00	D" WASHER - CAMSHAFT	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2
13***	005-075-00	WASHER	1
13A***	005-134-00	WASHER CAMSHAFT END	2
14	069-020-00	SNAP RING	2
14A***	069-078-00	RETAINER, CAMSHAFT END	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-188-03	CAMSHAFT, 22-5/16" LH	1
	034-189-03	CAMSHAFT, 22-5/16" RH	1
17	055-040-07	SLACK ADJUSTER, AUTOMATIC (PRIOR 03/20/03)	2
	127777	SLACK ADJUSTER, AUTOMATIC (AFTER 03/20/03)	
	127779	CLEVIS KIT (AFTER 03/20/03)	
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	AIR CHAMBER, SPRING BRAKE	2
	034-057-07	AIR CHAMBER, SERVICE BRAKE	2
24	024-101-01	SENSOR BLOCK, LOWER	2
25	024-101-01	SENSOR BLOCK, UPPER	2
26	097-002-00	RETAINER CLIP	2
27	097-003-00	ABS SENSOR, 90	2
28	007-237-00	CAP SCREW	4

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

** THESE PARTS ARE AVAILABLE AS PART OF 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 PAGE 1-49.



762m102361

Figure 1-25 Suspension Hanger RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228(INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	905-57-129	AIR SPRING ASSEMBLY	2
3	900 45 040	SHOCK	2
4	111006	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	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	1-512-010007-09	HEX NUT, 1/2-13	4
9	1-816-010034-13	LOCK WASHER, 1/2"	4
10	930 03 597	SCREW, HEX HEAD CAP 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
	111019	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	900 08 139	RUBBER BUSHING (FRONT PIVOT)	2
23	111011	RUBBER BUSHING (AXLE CONNECTION)	4
24	111012	AXLE ADAPTER ASSEMBLY	2
25	111014	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	900-25-288	SAFETY STRAP	2
28	934-00-506	LOCK NUT 1-1/8-7	4

NOTE: QUANTITIES LISTED ARE PER AXLE.

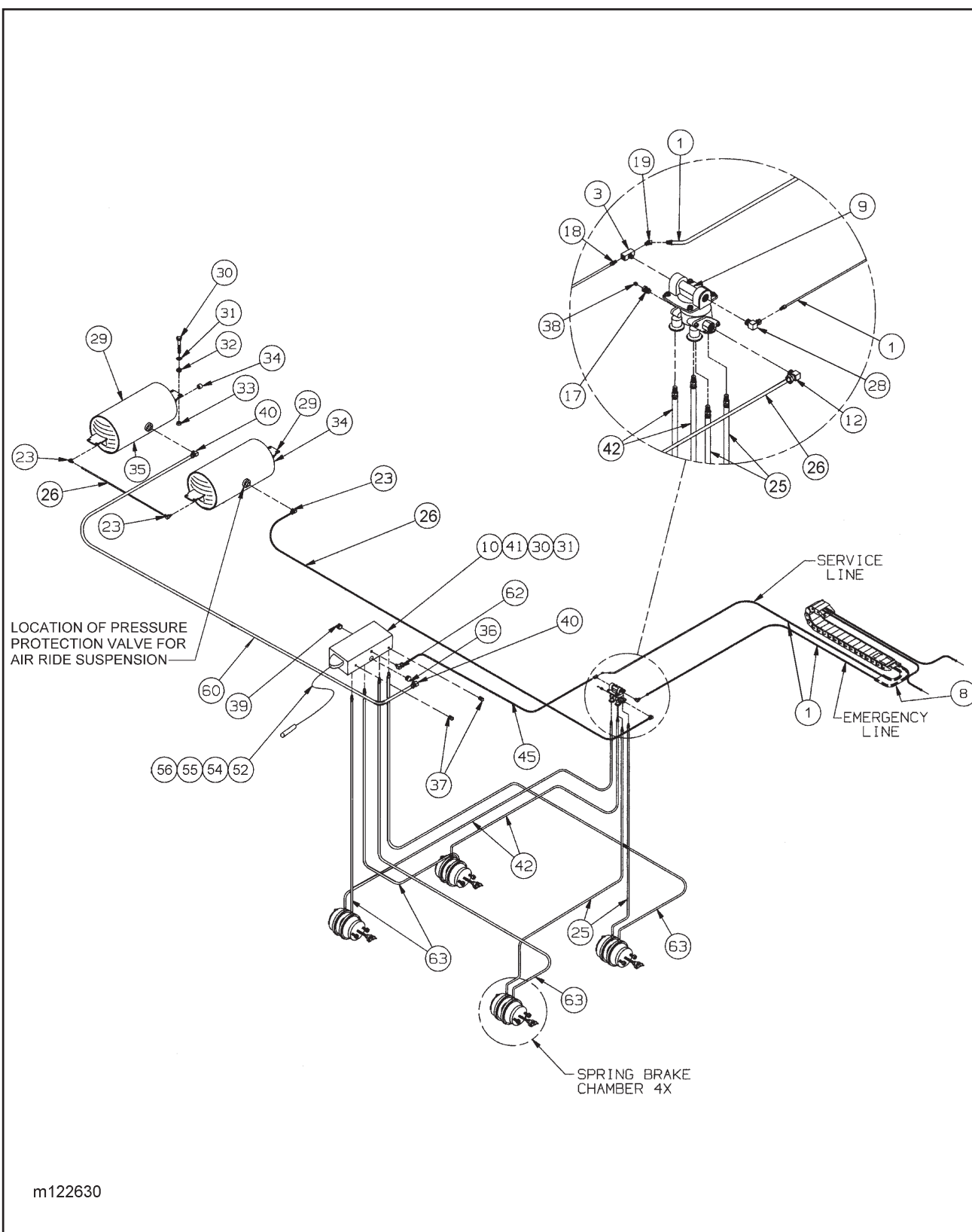
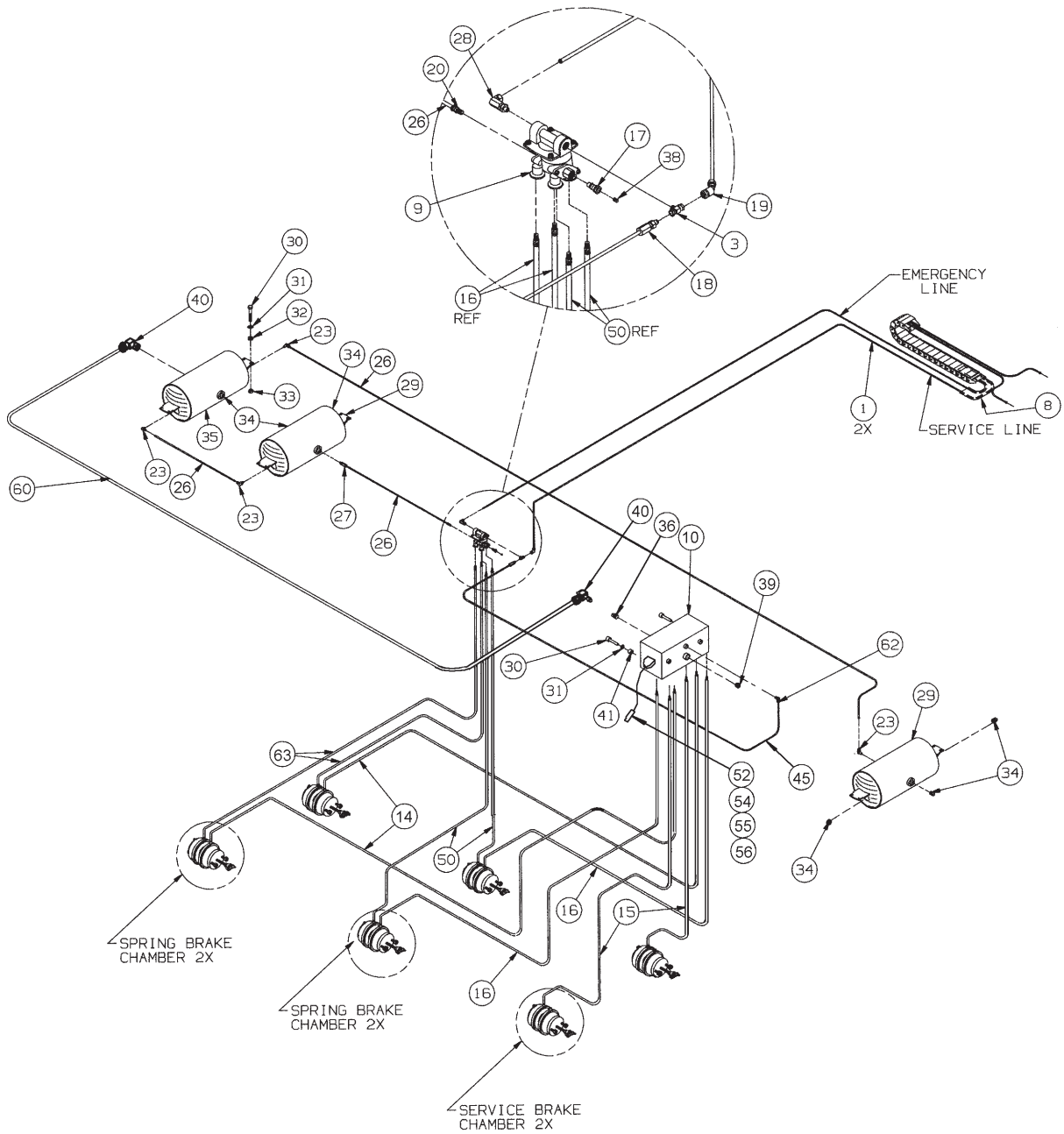


Figure 1-26 Spring Air Brake System w/ ABS (425 & 435)



103816

Figure 1-27 Spring Air Brake System w/ ABS (410)

SPRING AIR BRAKE SYSTEM W/ ABS

ITEM	PART NO.	DESCRIPTION	QTY.		
	122630	AIR SYSTEM U/C, ABS (425)	*		
	127579	AIR SYSTEM U/C, ABS (435)		*	
	103816	AIR SYSTEM U/C, ABS (410)			*
1	100949	HOSE AIR 3/8 X 222 W/ 3/8 ENDS	--	2	2
	100948	HOSE AIR 3/8 X 174	2	--	--
3	1-297-010017-03	FITTING AIR M/BR TEE	1	1	1
8	1-394-010001	HOSE ABRASION SLEEVE X 2	2	2	2
9	758-181	VALVE RELAY EMERGENCY	1	1	1
10	114584	BRAKE KIT, ABS 4S/2M (SEE PAGE 1-45)	1	1	--
	114586	BRAKE KIT, ABS 4S/2M (SEE PAGE 1-45)	--	--	1
12	1-297-010008-23	FITTING, AIR 90	1	1	--
14	1-384-010038084	HOSE, AIR 3/8 X 84"	--	--	2
15	1-384-010038060	HOSE AIR	--	--	2
16	1-384-010038024	HOSE AIR	--	--	2
17	55B61	FRAME UNION	1	1	1
18	1-297-010007-12	FITTING AIR	1	1	1
19	2088-6-6S	ADAPTER 45	1	1	1
20	1-297-010007-15	FITTING AIR	--	--	1
23	1-297-010008-24	FITTING 90 AIR	3	3	4
25	3-384-010020	HOSE, AIR 3/8	2	2	--
26	1-833-010003	TUBING NYLON 1/2	AR	AR	AR
27	1-297-010007-16	FITTING AIR	--	--	1
28	2089-6-6S	ADAPTER 90	1	1	1
29	3-780-010002	TANK AIR	2	2	3
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10	10	14
31	1-861-010032-11	WASHER FLAT 3/8W	18	18	26
32	805-2	STEP BUSHING	16	16	24
33	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	8	8	12
34	1-560-010002-04	PIPE PLUG 1/2	4	4	5
35	56D4	AIR TANK DRAIN COCK	2	2	3
36	118-2659-9	BUSHING 1/2 X 3/4	1	1	1
37	1-560-010002-03	PIPE PLUG 3/8	2	2	--
38	1-560-010002-02	PIPE PLUG 1/4	1	1	1
39	1-560-010002-05	PIPE PLUG 3/4-14	1	1	1
40	1-297-010008-26	FITTING, AIR 90	2	2	2
41	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	10
42	1-384-010038056	HOSE, AIR 56"	2	2	--
45	1-833-010002	TUBING, NYLON 3/8	AR	AR	AR
50	1-384-010038076	HOSE, AIR 3/8 X 76	--	--	2
51	101852	DIAGNOSTIC CABLE SWITCH	1	1	1
52	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	2	2	2
53	103817	CLAMP HOSE (NOT SHOWN)	1	1	2
54	1-512-010007-05	NUT HEX 1/4-20	2	2	2
55	1-861-010032-07	WASHER FLAT 1/4-20	2	2	2
56	1-861-010034-09	WASHER SPLIT LOCK 1/4	2	2	2
60	117304	TUBING, NYLON 5/8	AR	AR	AR
62	1-297-010008-18	FITTING, AIR 90	1	1	1
63	1-384-010038038	HOSE, AIR 3/8 X 38	4	4	2

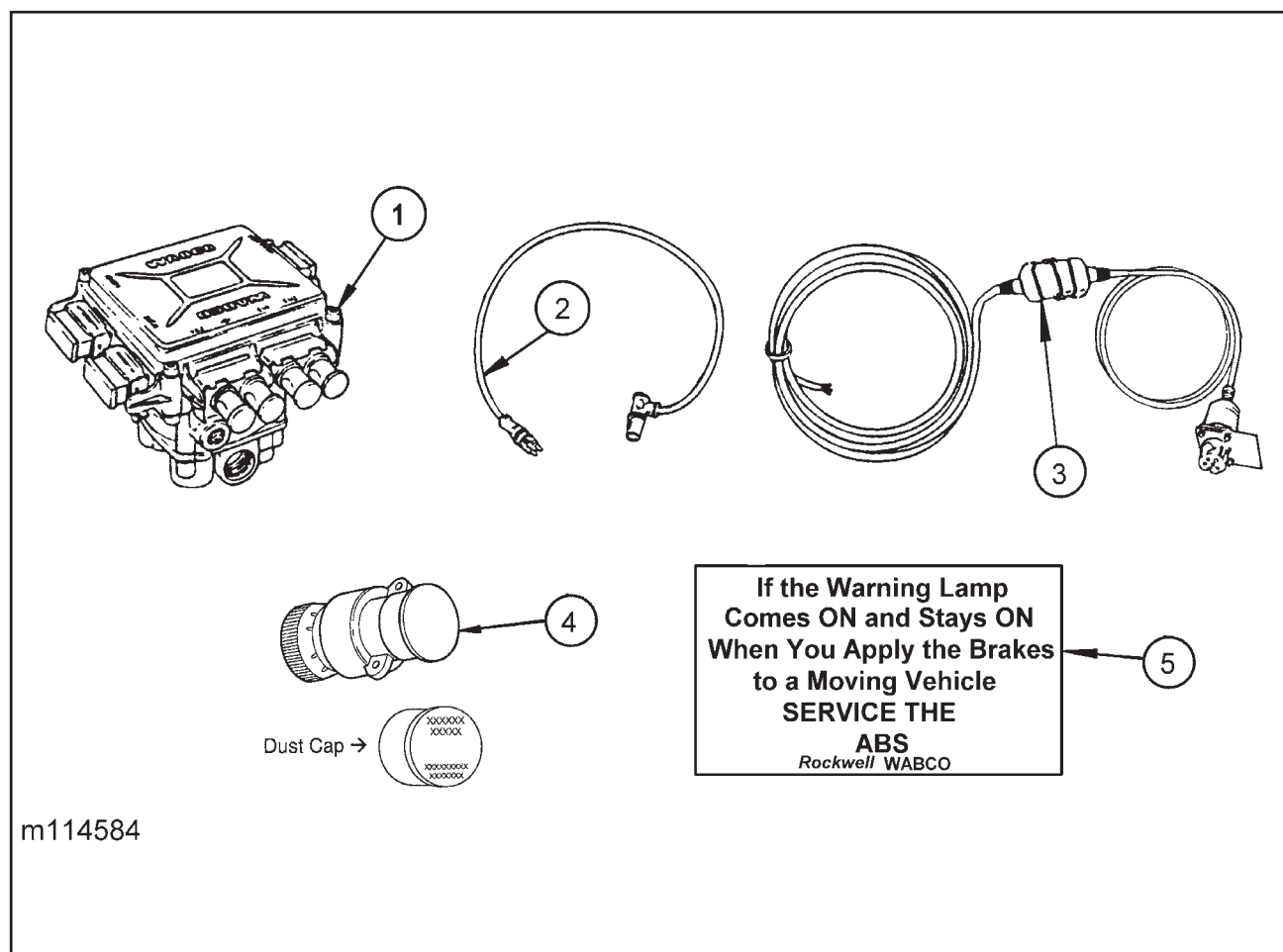
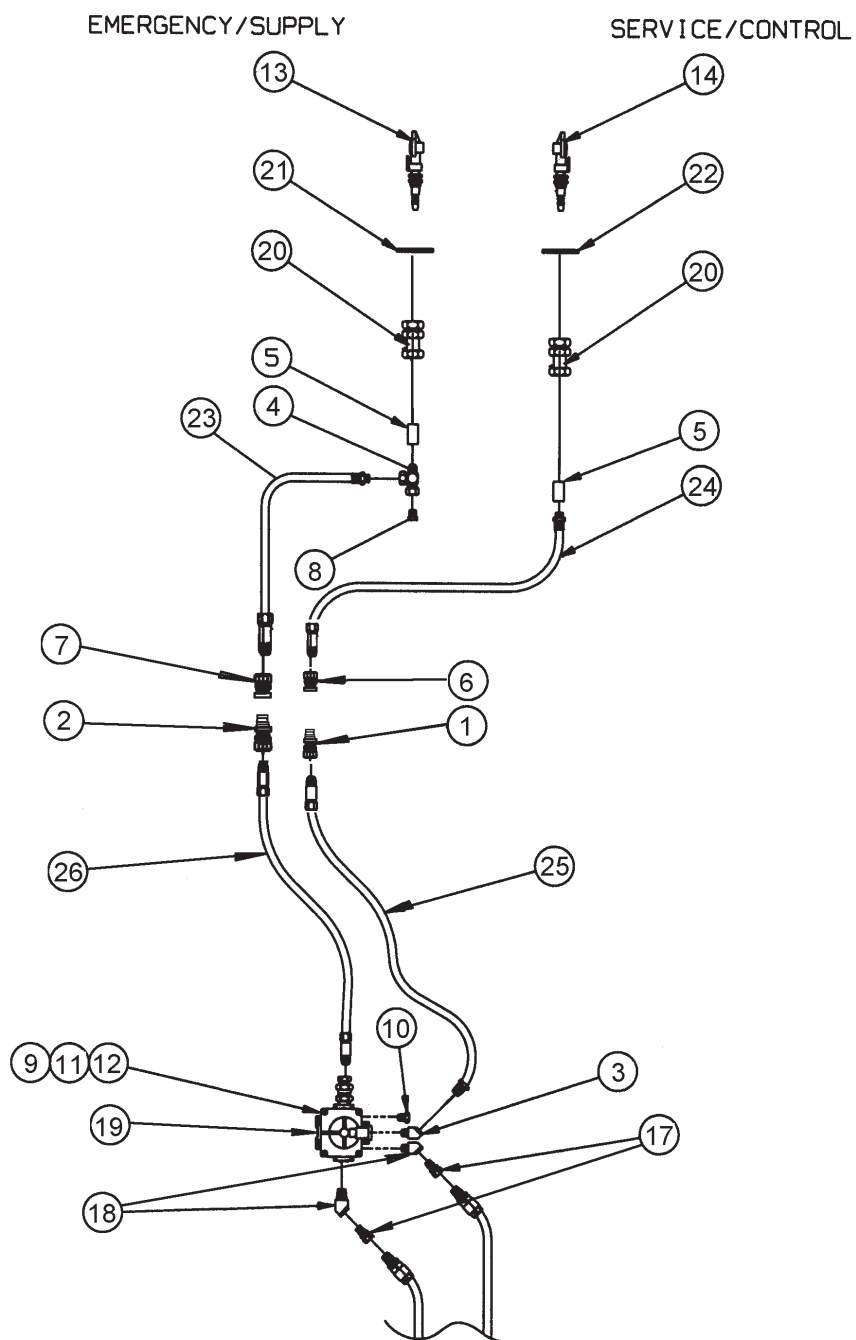


Figure 1-28 Brake Kit, Rockwell ABS

ABS BRAKE KIT

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

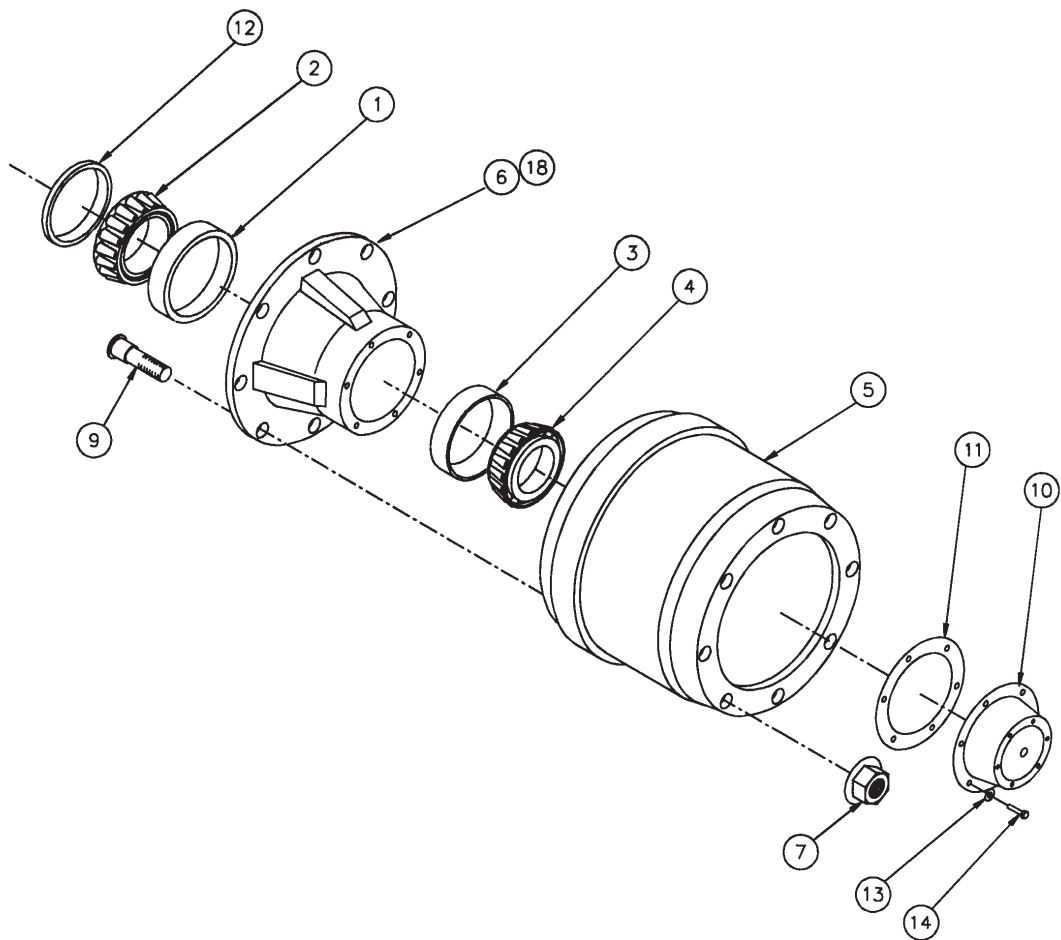


m121512

Figure 1-29 Air System ABS

AIR SYSTEM, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	121512	AIR SYSTEM, ABS	
1	1-297-010007-12	FITTING, AIR	1
2	1-297-010007-16	FITTING, AIR	2
3	1-297-010013-12	FITTING, AIR 45	1
4	1-297-010018-03	FITTING, BRASS PIPE STR TEE 3/8	1
5	1-297-010021-05	FITTING, BRS PIPE, COUPLING	2
6	1-297-010022-03	FITTING, AIR	1
7	1-297-010022-04	FITTING, AIR	1
8	1-297-010033-03	PLUG, BRASS 3/8	1
9	1-512-010005-01	NUT, HEX LOCK 1/4-20	2
10	1-560-010002-04	PLUG, PIPE 1/2	1
11	1-654-010027-7	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8	2
12	1-861-010032-06	WASHER, FLAT 1/4N	2
13	108801	GLADHAND RED AIR	1
14	108802	GLADHAND BLUE AIR	1
17	2081-8-6S	REDUCER	2
18	2088-6-6S	ADAPTER 45	2
19	3-843-010038	VALVE, AIR RELAY	1
20	55B61	FRAME UNION	2
21	55B61-6	TAG EMERGENCY LINE	1
22	55B61-7	TAG SERVICE LINE	1
23	122557	HOSE, AIR 1/2 X 240	1
24	100949	HOSE ASSEMBLY 3/8 X 222	1
25	1-833-010002	TUBING NYLON 3/8	AR
26	1-833-010003	TUBING NYLON 1/2	AR



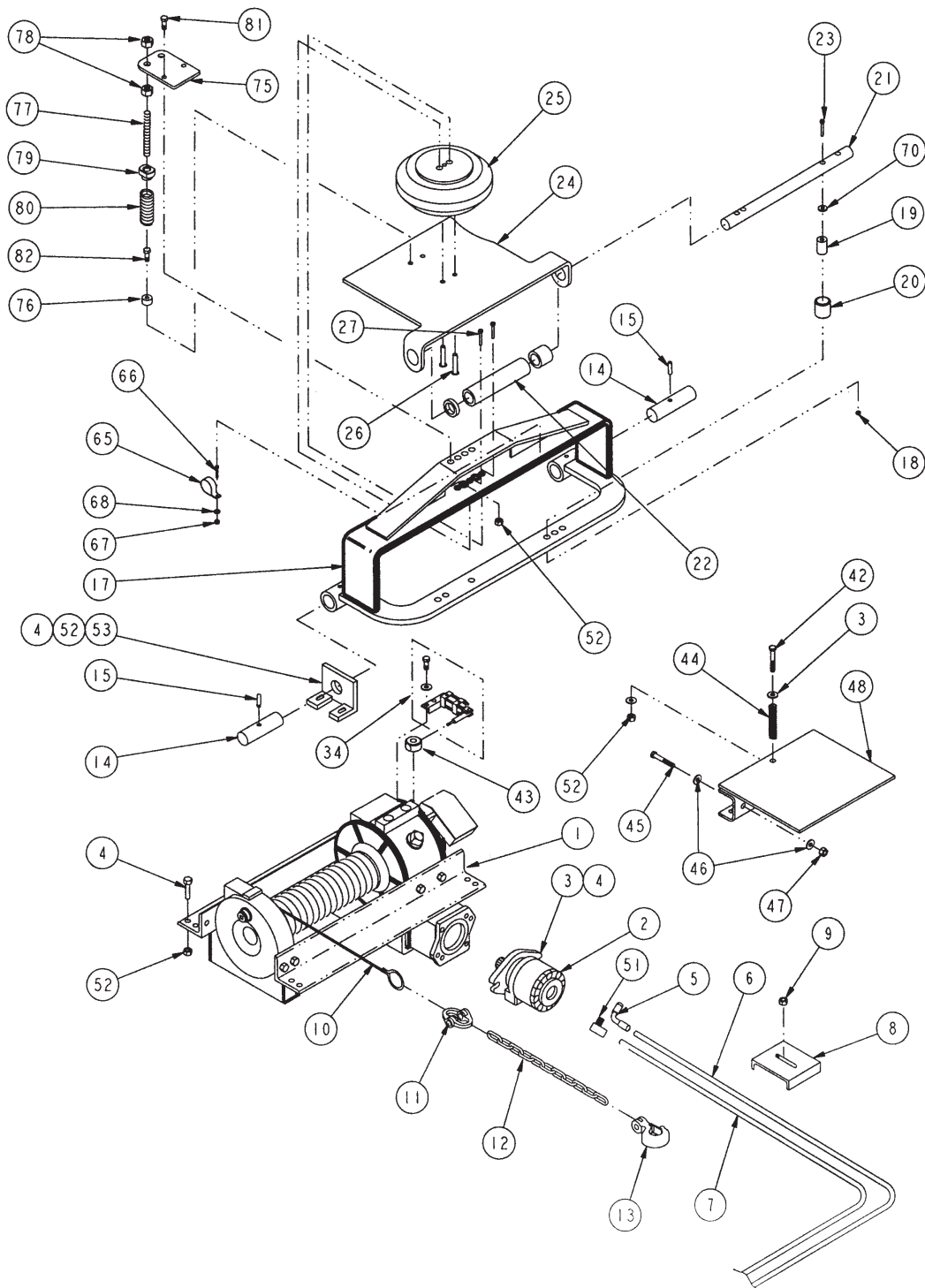
HUBOABS2

Figure 1-30 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

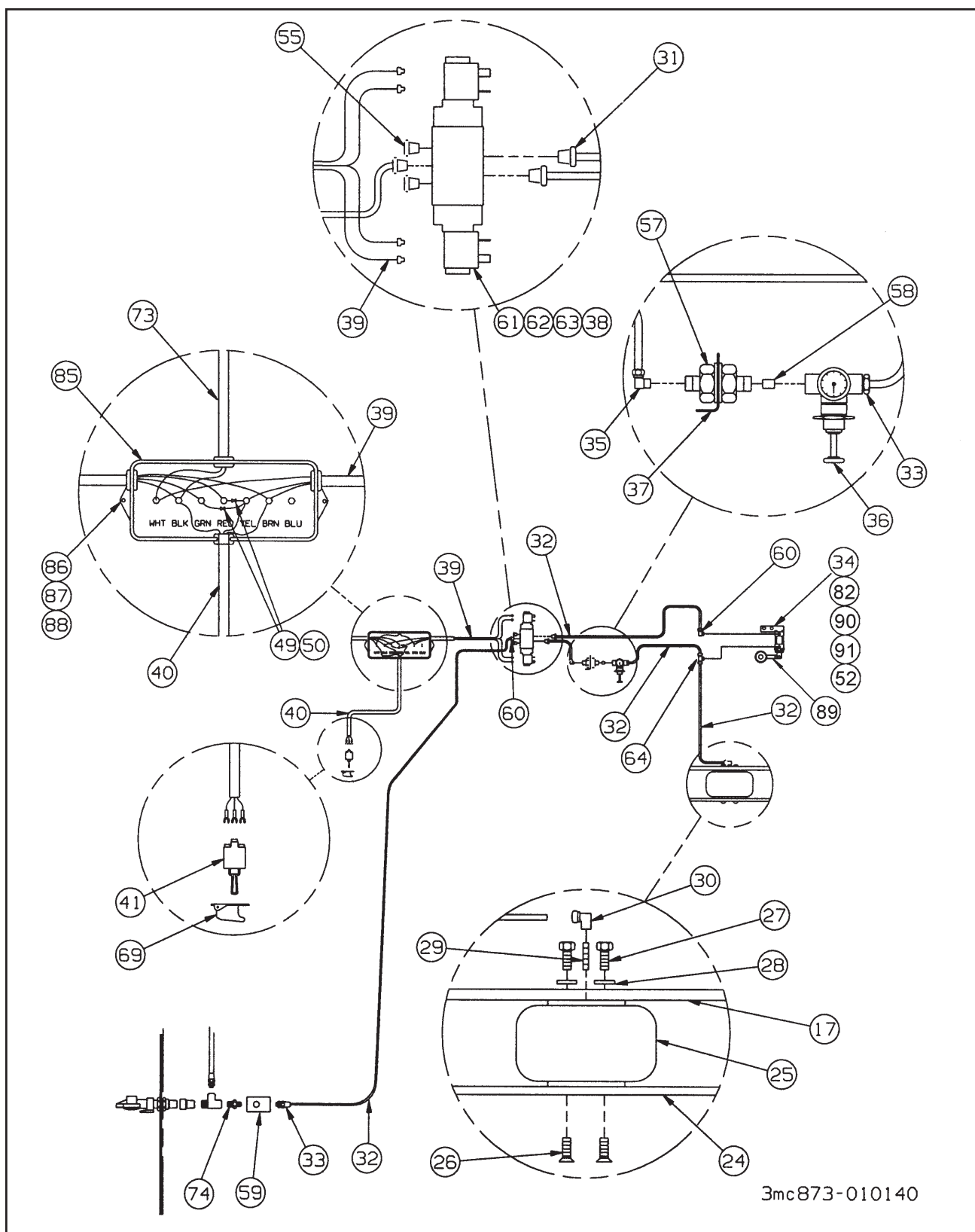
ITEM	PART NO.	DESCRIPTION	QTY.
	108541	HUB/DRUM 8 BOLT 12-1/4 PILOT, ABS LONG STUD	
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	63680	OUTBOARD MOUNTED BRAKE DRUM	1
6	112493(2027----T80)	HUB IRON 80 TH TONER RING	1
7	179933	FLANGE NUT	8
9	101160	STUD	8
10	021-038-01 (4009)	CAP HUB	1
11	071-124-00 (3067)	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW HEX HEAD CAP 5/16-18X3/4 GR5	6
15	100402	WHEEL ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	3-870-010097	WHEEL DISC PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	112047	WHEEL ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT) (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C - ALUMINUM WHEEL (NOT SHOWN)	1
17	1-843-010014	VALVE, EXTENSION, STEM 3" (NOT SHOWN)	1
18	*	ABS TONE RING	1

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



3me873-010140

Figure 1-31 Winch Installation (1 of 2)



WINCH INSTALLATION

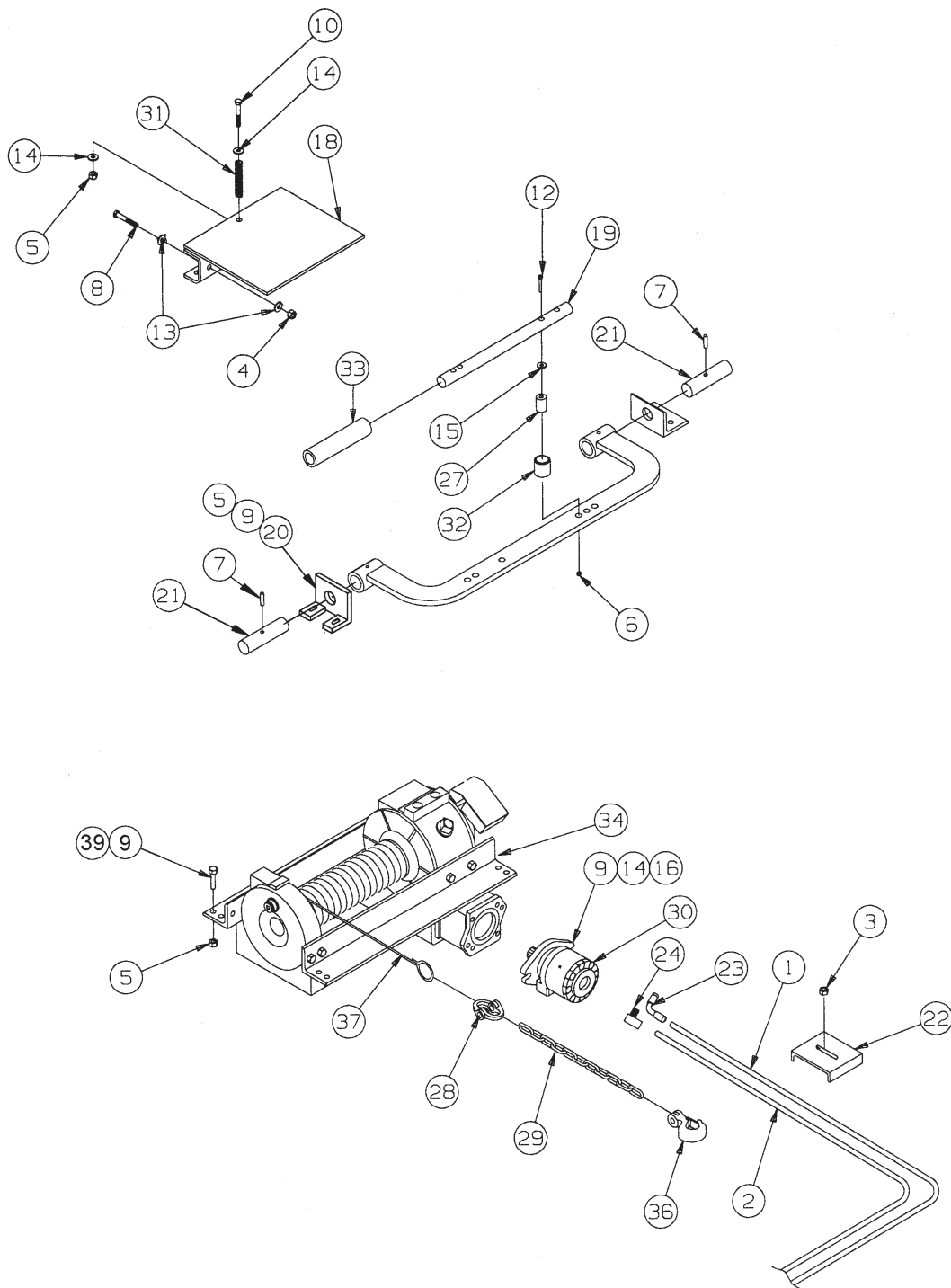
ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	
	3-873-010144	WINCH INSTALLATION 600-12K	
	123210	WINCH 20K GUIDE AIR TEN/REL	
1	3-873-010123	WINCH ASSY 20K (SEE PAGE 1-60)	1
	3-873-010122	WINCH ASSY 12K (SEE PAGE 1-57)	1
2	3-481-010007	MOTOR HYD. (20K) (SEE PAGE 1-63)	1
	3-481-010006	MOTOR HYD. (12K) (SEE PAGE 1-63)	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
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
	119622	PIN, PIVOT WINCH ROLLER	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 1-62)	***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

WINCH INSTALLATION

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
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 POWER JUMPER 660	1
74	1-297-010019-05	FITTING BRS PIPE HEX 3/8X1/4	1
75	3-565-011688	PLATE F/W SPRING TENSION - 600	*1
76	3-014-010255	ANCHOR 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.
- *** - FOR AIR SHIFT OPTION. (AVAILABLE ONLY ON 20K WINCH.)
- **** - FOR SPRING TENSION OPTION.



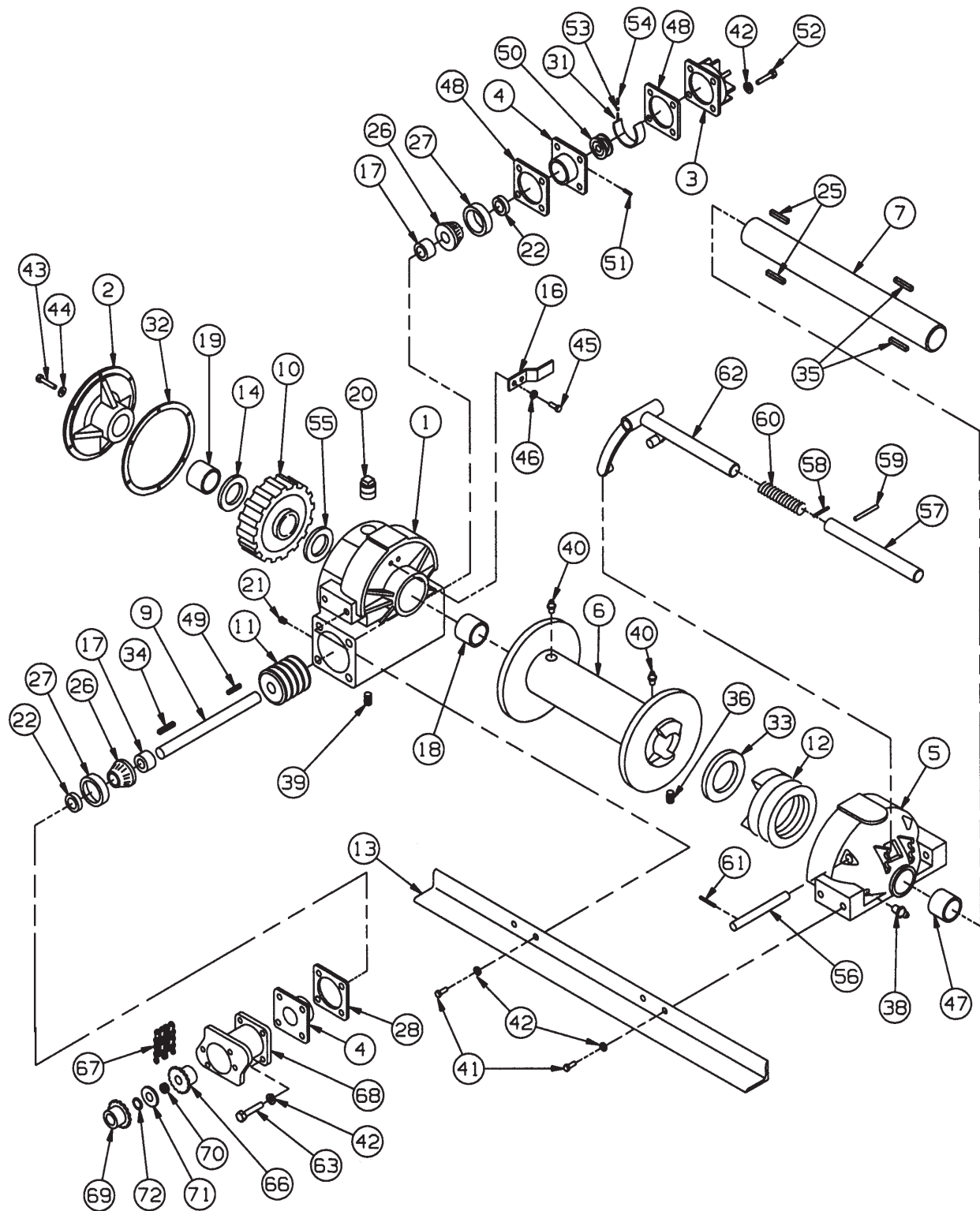
m119623

Figure 1-33 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 1-63)	1
	3-481-010007	MOTOR, HYD. (20K) (SEE PAGE 1-63)	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 1-57)	1
	3-873-010123	WINCH ASSY (20K) (SEE PAGE 1-60)	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.



3ma410-011559

Figure 1-34 12,000# Winch Items

12,000# WINCH ITEMS

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
50	18028	DRUM, BRAKE	1
51	12075	SCREW, SET	1
52	22703	CAPSCREW	4
53	13468	JAM NUT	4

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
54	18029	BRAKE BAND SPRING	1
55	11240	RETAINER RING	1
56	11130	SHIFTER SHAFT	1
57	12817	SHIFTER HANDLE	1
58	18056	ROLL PIN	1
59	13028	ROLL PIN	1
60	18002	SPRING	1
61	11837	ROLL PIN	2
62	13839	SHIFTER FORK	1
63	22704	CAPSCREW	4
65	18044	KEY (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

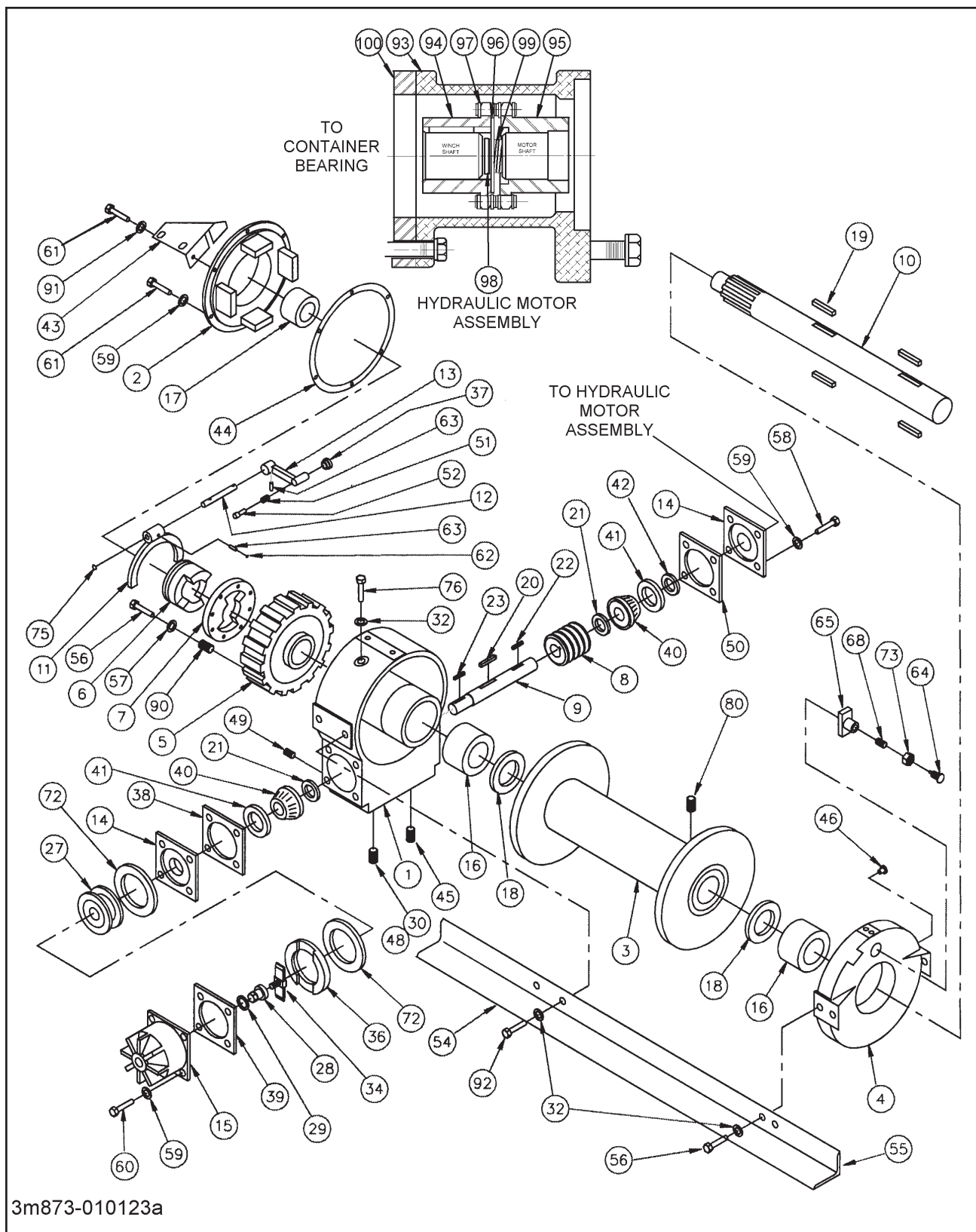


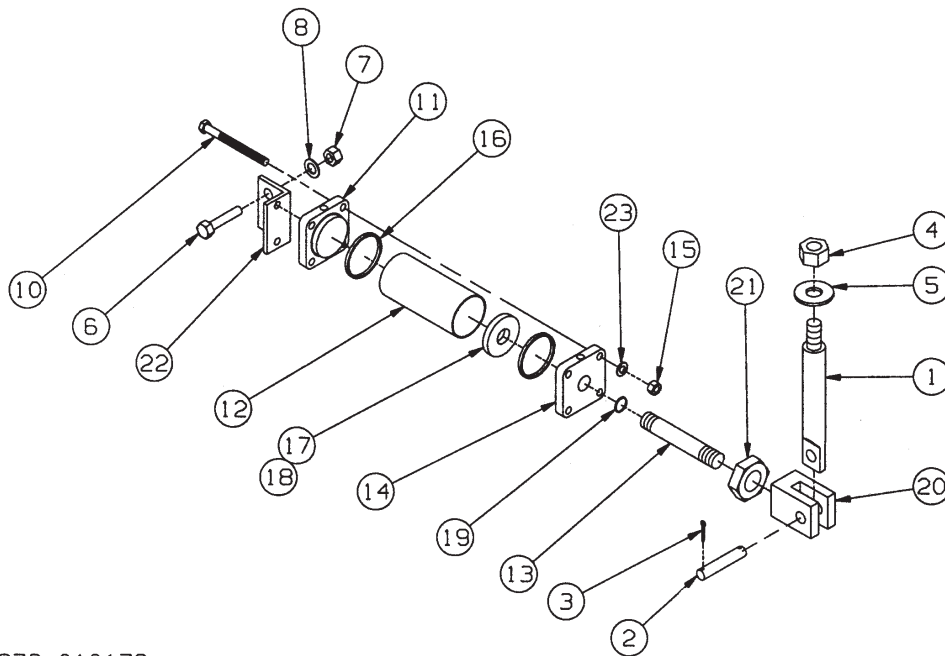
Figure 1-35 20,000# Winch Items

20,000# WINCH ITEMS

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

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
55	28943	ANGLE REAR BASE	1
56	13938	CAPSCREW	16
57	12781	WASHER LOCK	8
59	11025	WASHER LOCK	3
60	22695	CAPSCREW	4
61	21964	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLL PIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	22729	CAPSCREW	2
77	23245	SAE PLATE -AMU7-16F	1
78	23310	PLATE WARNING	1
79	11842	SCREW DRIVE	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER	1
92	22697	CAPSCREW	5
93	23144	HYDRAULIC MOTOR ADAPTER	1
94	23082	COUPLING HALF - WINCH SHAFT	1
95	23145	COUPLING HALF - MOTOR SHAFT	1
96	23856	SPACER	1
97	13424	ROLLER CHAIN	1
98	23085	SPACER	1
99	23353	SPRING	1
100	24554	ADAPTER SPACER	1



3mc873-010179

Figure 1-36 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
24	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	3109	O-RING KIT FOR CYLINDER	

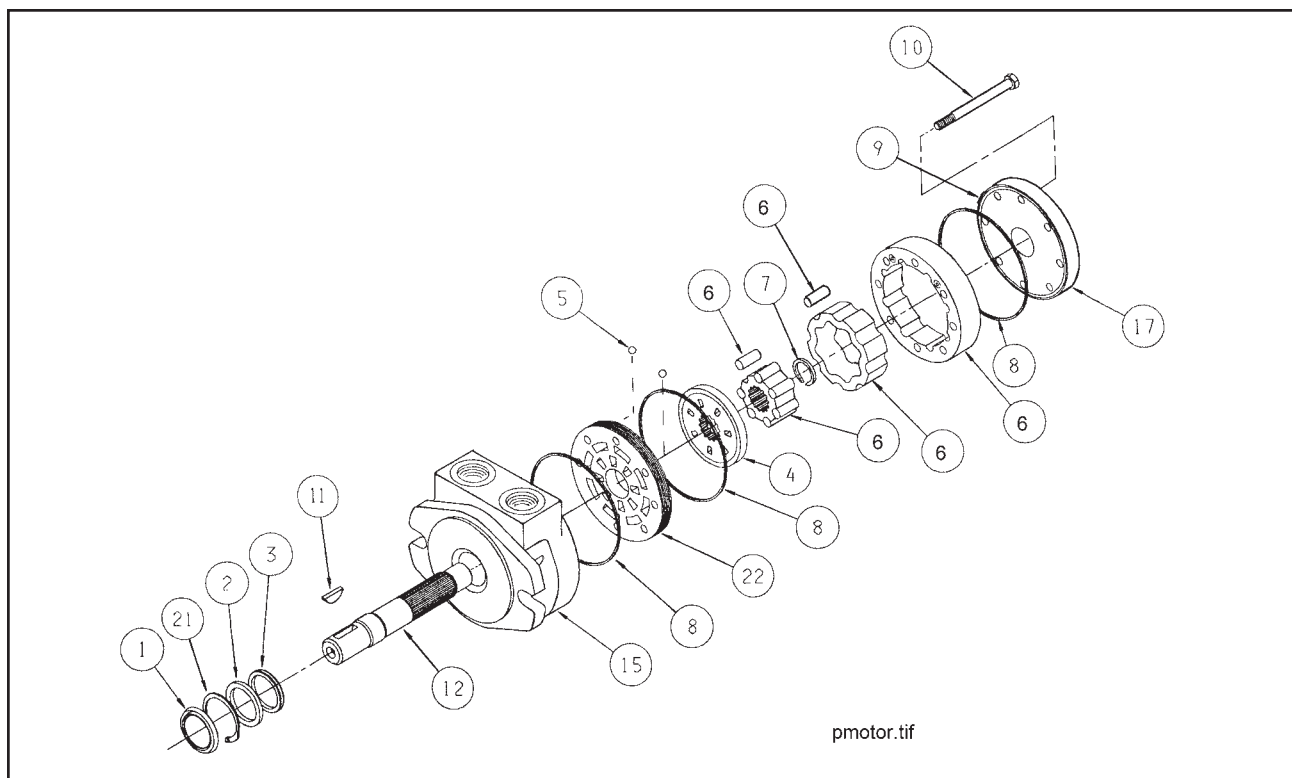
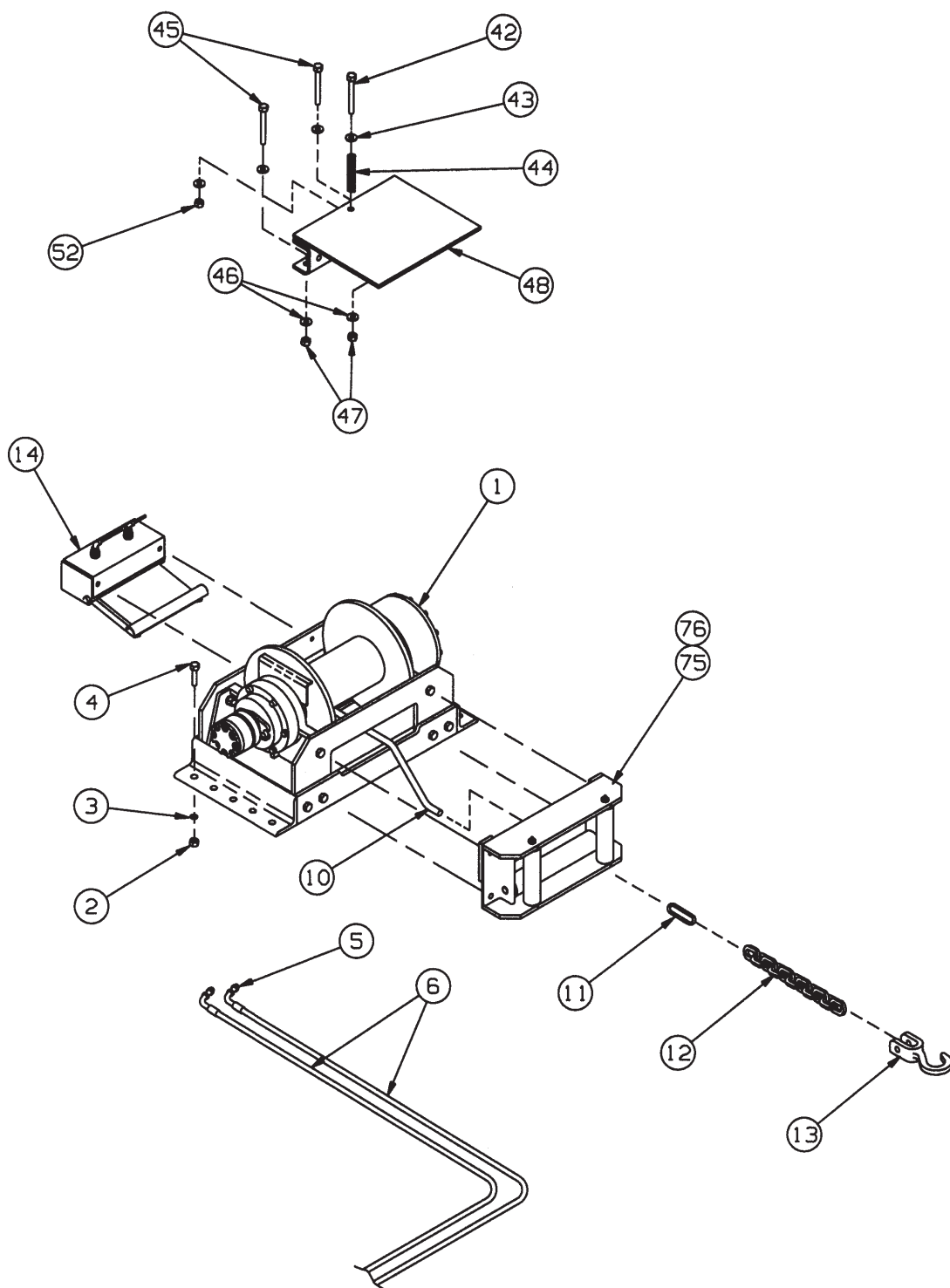


Figure 1-37 Winch Motor Assembly

WINCH MOTOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010007	MOTOR HYDRAULIC (20K WINCH)	1
	3-481-010006	MOTOR HYDRAULIC (12K WINCH)	1
1	2183	SEAL DUST	1
2	2177	BACK-UP RING	1
3	2175	SEAL LIP	1
4	1644	ROTARY VALVE	1
5	1021	CHECK VALVE BALL	2
6	1004-6	IGR ASSY (20K WINCH)	1
	1004-3	IGR ASSY (12K WINCH)	
7	1296	SNAP RING	1
8	1046	SQUARE RING SEAL	3
9	1019-4	PLUG VENT W/O-RING	1
10	1014-4	BOLTS HEX (20K WINCH)	8
	1114-5	BOLTS HEX (12K WINCH)	
11	1655	KEY WOODRUFF	1
12	2265-6	SHAFT (20K WINCH)	1
	2109-3	SHAFT (12K WINCH)	
15	M110AB-4	BODY/BEARING ASSY (20K WINCH)	1
	PA-2328-2	BODY/BEARING ASSY (12K WINCH)	
17	M110C-1	COVER/BEARING ASSY	1
21	2180	SNAP RING SHAFT	1
22	1865	COMMUTATOR PLATE	1
23	2263	SEAL KIT BODY	1
	2480	SEAL KIT BODY VITON	1



3mb873-010170

Figure 1-38 30K Upper Deck Winch Installation (1 of 2)

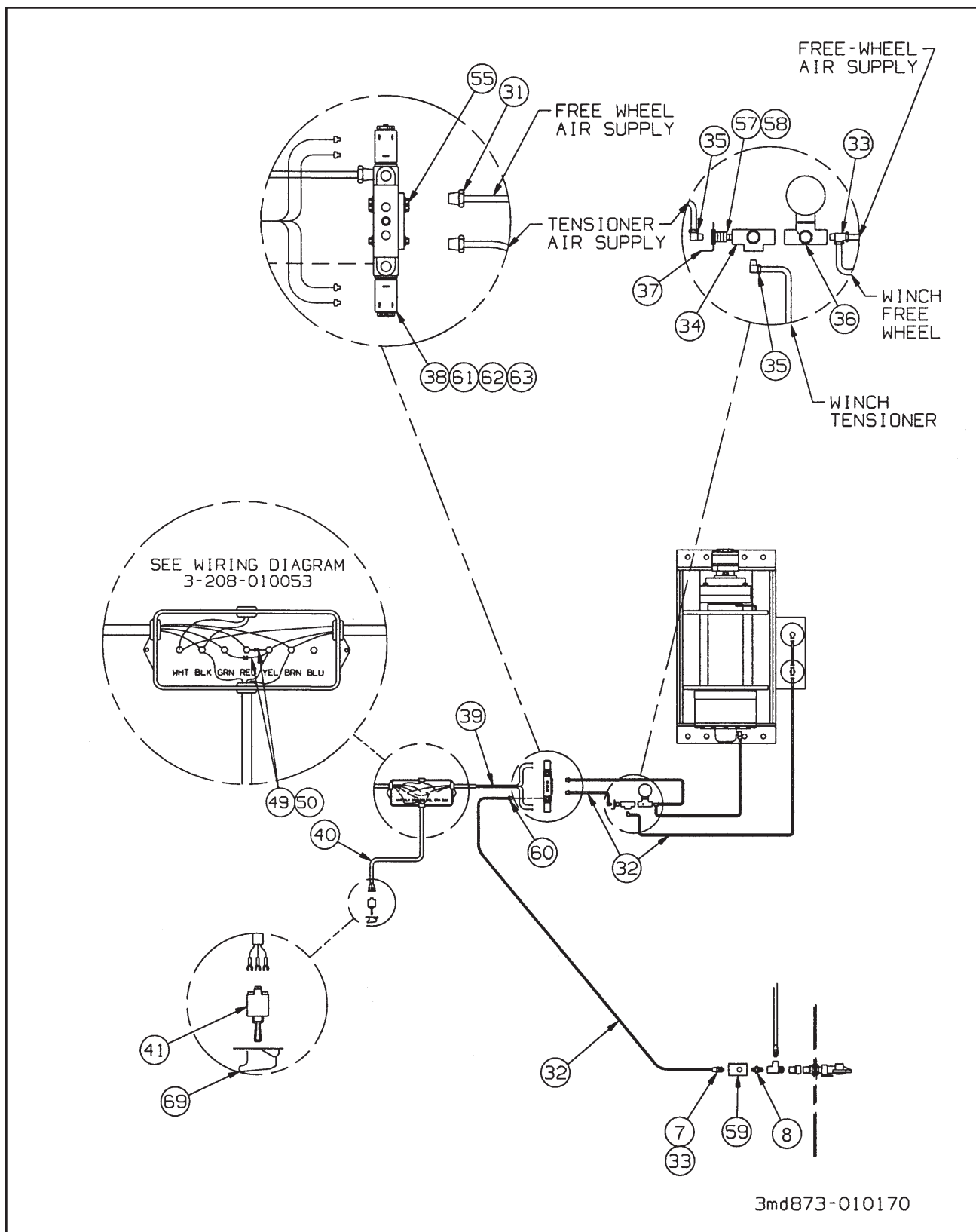


Figure 1-39 30K Upper Deck Winch Installation (2 of 2)

30K UPPER DECK WINCH INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010170	WINCH INSTALLATION 600-30K UPPER DECK	
1	3-873-010173	WINCH 30K ITEMS (SEE PAGE 1-68)	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
7	1-297-010007-05	FITTING, AIR	1
8	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
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 1-77)	*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
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
75	122333	WINCH ROLLER GUIDE 30K PLNTY DP (SEE PAGE 1-75)	*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.

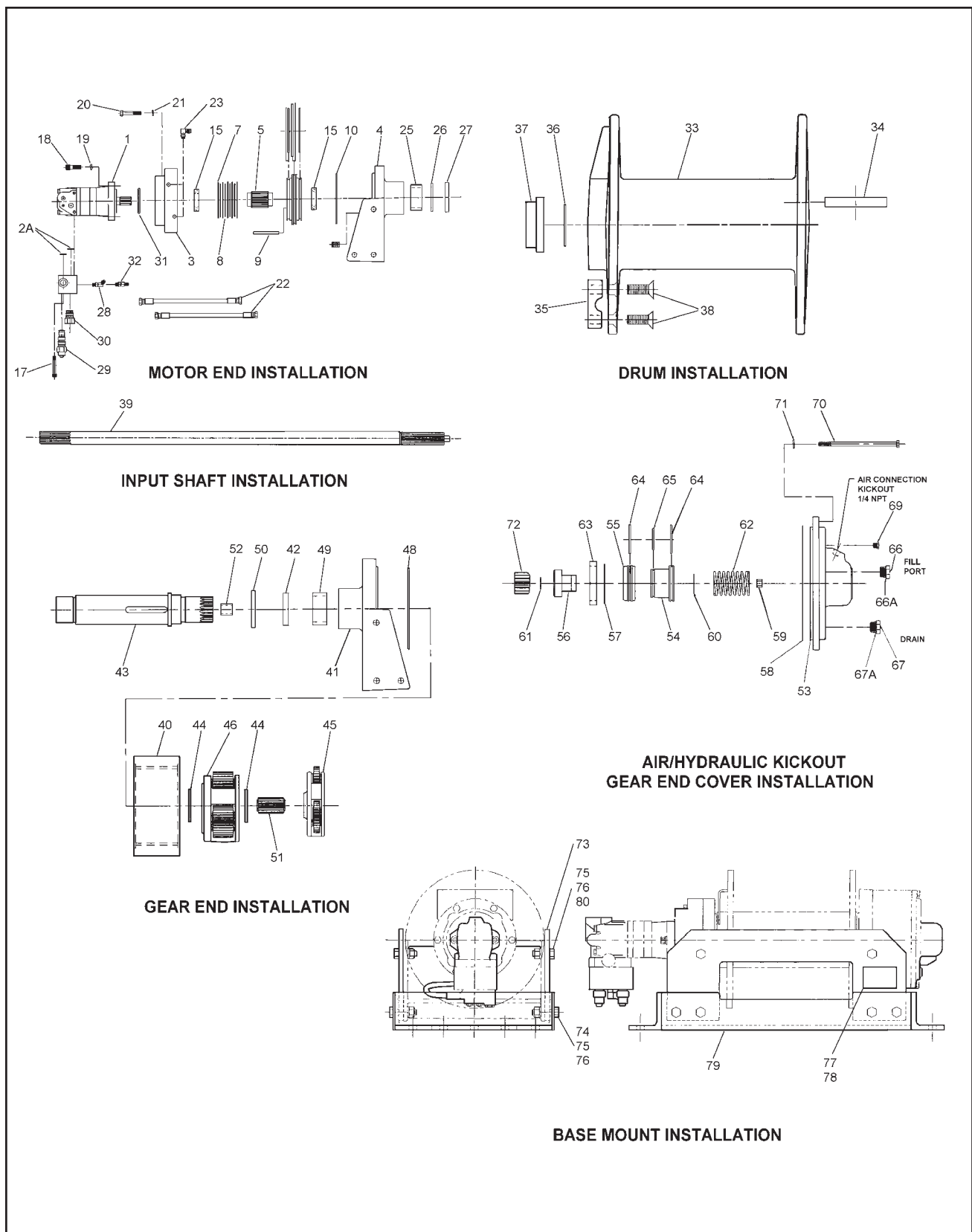


Figure 1-40 30,000# Winch Items

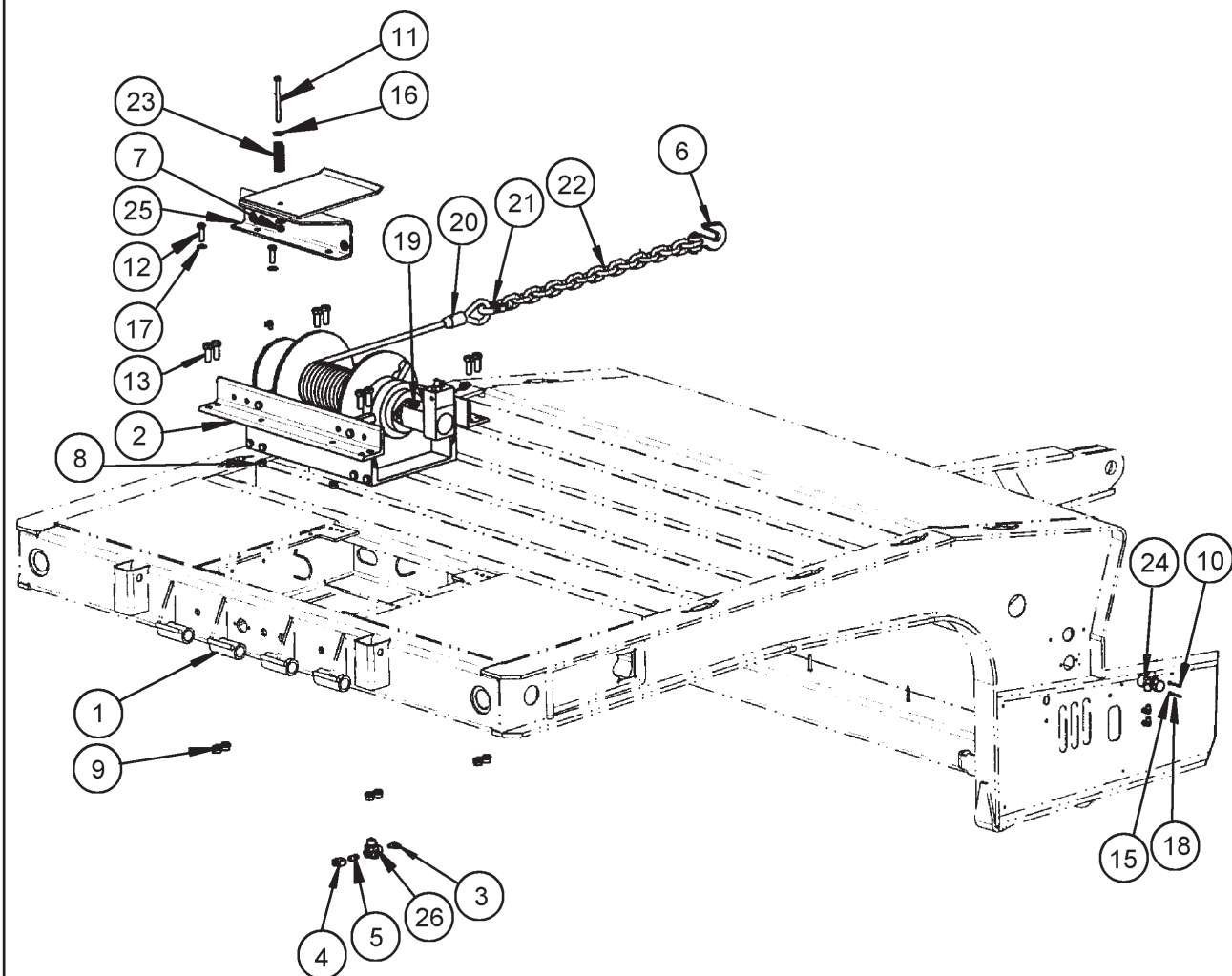
30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010173	WINCH 30K ITEMS	
MOTOR END INSTALLATION			
1	73076	MOTOR, HYDRAULIC	1
2	11604	VALVE, COUNTERBALANCE	1
2A	9817	O-RING, 13/16 I.D. X 3/32 SECTION	2
3	11535	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	1345	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
18	1143	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
19	1144	WASHER, LOCK HI COLLAR 1/2	6
20	1376	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
21	1388	WASHER, LOCK 7/16	4
22	75038	HOSE 1/4R1 X 12"	1
23	76017	ADAPTER 90	1
24	10708	TAG WARNING (NOT SHOWN)	1
25	81454	BEARING -TORRINGTON	1
26	13288	WASHER THRUST BRONZE	1
27	9890	SEAL SHAFT	1
28	76029	ADAPTER 45	
29	3177	CARTRIDGE COUNTERBALANCE	1
30	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
31	9880	O-RING 3 ID X 1/8 SECTION	1
32	76027	ADAPTER STRAIGHT	
	9400	DISC PLATE KIT (INCL ITEMS 7-8 & 16)	
	9406	SEAL KIT (INCL ITEMS 10-14)	
DRUM INSTALLATION			
33	13285	DRUM	1
34	13293	KEY DRUM	2
35	12518	CLIP CABLE THREADED	1
36	9602	O-RING 2-5/8 ID X 1/8 W	1
37	13286	SPACER	1
38	1587	CAP SCREW, FLAT SOCKET HEAD 5/8-11 X 1-3/4	
INPUT SHAFT INSTALLATION			
39	13317	SHAFT INPUT	1
GEAR END INSTALLATION			
40	3126	GEAR RING	1
41	13300	SUPPORT GEAR END	1

30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
42	13288	WASHER THRUST	1
43	13301	SHAFT OUTPUT	1
44	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION	2
45	12486	CARRIER ASSEMBLY PRIMARY	1
46	12516	CARRIER ASSEMBLY SECONDARY	1
47	10848	LABEL WARNING (NOT SHOWN)	1
48	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
49	81454	BEARING	1
50	9890	SEAL SHAFT	1
51	13306	GEAR SUN	1
52	81608	BUSHING ID 1-1/4 OD X 1 LG	1
AIR/HYD. KICKOUT GEAR END COVER INSTALLATION			
53	13675	COVER GEAR END	1
54	13295	PISTON AKO B/C/D	1
55	13296	CYLINDER PISTON	1
56	13297	COUPLING DRIVE	1
57	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
58	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
59	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
60	3303	RING RETAINING 1-1/4	1
61	3321	RING RETAINING RD SEC .805 I.D.	1
62	2309	SPRING COMPRESSION	1
63	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
64	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
65	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
66	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
66A	9992	O-RING .755 I.D. X .097 W 3-910	1
67	76343	PLUG SKT HD O-RING MAG #10	1
67A	9992	O-RING .755 I.D. X .097 W 3-910	1
68	1157	CAPLUG #4 RED (NOT SHOWN)	1
69	3059	RELIEF VENT	1
70	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
71	1395	WASHER LOCK 3/8	12
72	13235	GEAR SUN AKO	1
BASE MOUNT INSTALLATION			
73	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
74	1506	SCREW CAP HEX HAD 5/8-11 X 2-1/2 GR5	12
75	1590	NUT HEX 5/8 - 11 GR2	12
76	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12
77	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4
78	10466	PLATE INFORMATION	1
79	14073	BASE SUPPORT	
80	1504	CAP SCREW, HEX HEAD 5/8-11 X 2 GR5	

NOTE: WHEN ORDERING WINCH PARTS, CUSTOMER MUST GIVE SERIAL NO. FOR WINCH. SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

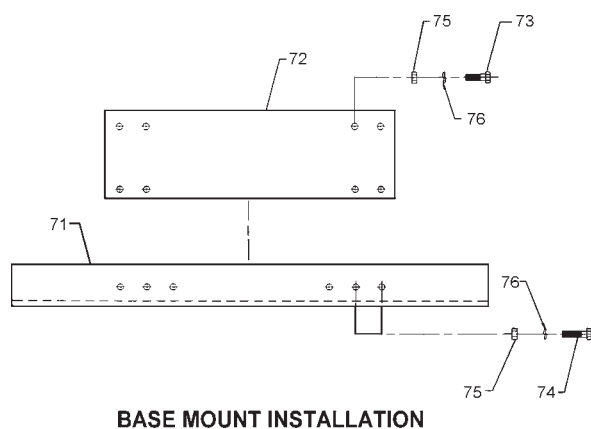
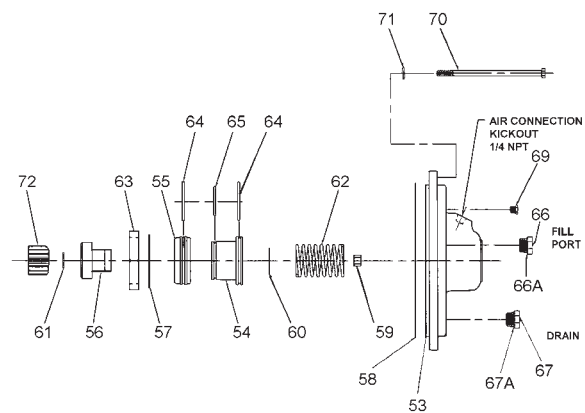
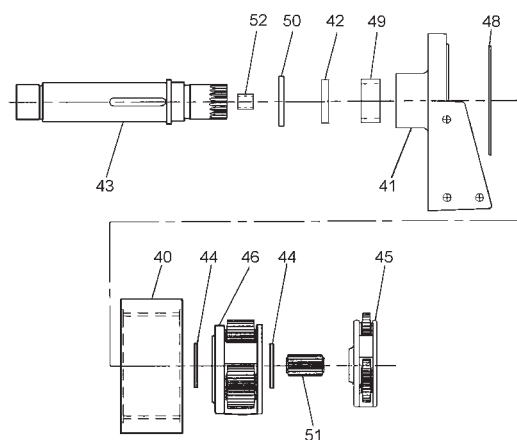
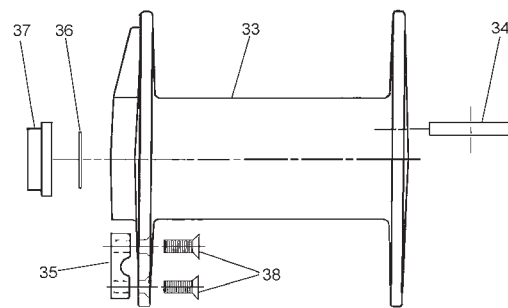
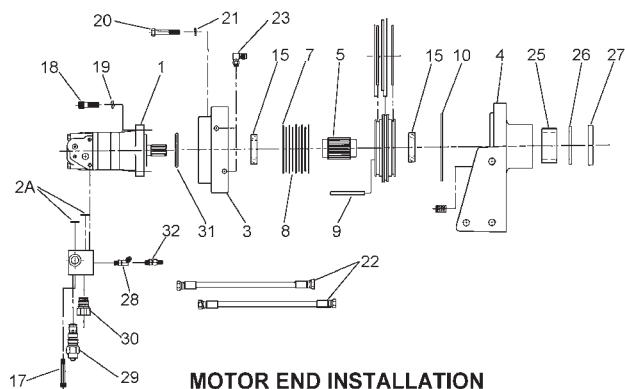


m126538

Figure 1-41 30K Upper Deck Winch Installation (1 of 2)

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 1-73)	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



m3-873-010154

Figure 1-42 30,000# Winch Items

30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010154	WINCH 30K ITEMS	
MOTOR END INSTALLATION			
1	73076	MOTOR, HYDRAULIC	1
2	11604	VALVE, COUNTERBALANCE	1
2A	9817	O-RING, 13/16 I.D. X 3/32 SECTION	2
3	11535	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	1345	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
18	1143	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
19	1144	WASHER, LOCK HI COLLAR 1/2	6
20	1376	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
21	1388	WASHER, LOCK 7/16	4
22	75038	HOSE 1/4R1 X 12"	1
23	76017	ADAPTER 90	1
24	10708	TAG WARNING (NOT SHOWN)	1
25	81454	BEARING -TORRINGTON	1
26	13288	WASHER THRUST BRONZE	1
27	9890	SEAL SHAFT	1
28	76029	ADAPTER 45	
29	3177	CARTRIDGE COUNTERBALANCE	1
30	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
31	9880	O-RING 3 ID X 1/8 SECTION	1
32	76027	ADAPTER STRAIGHT	
	9400	DISC PLATE KIT (INCL ITEMS 7-8 & 16)	
	9406	SEAL KIT (INCL ITEMS 10-14)	
DRUM INSTALLATION			
33	13285	DRUM	1
34	13293	KEY DRUM	2
35	12518	CLIP CABLE THREADED	1
36	9602	O-RING 2-5/8 ID X 1/8 W	1
37	13286	SPACER	1
38	1587	CAP SCREW, FLAT SOCKET HEAD 5/8-11 X 1-3/4	
INPUT SHAFT INSTALLATION			
39	13317	SHAFT INPUT	1
GEAR END INSTALLATION			

30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
40	3126	GEAR RING	1
41	13300	SUPPORT GEAR END	1
42	13288	WASHER THRUST	1
43	13301	SHAFT OUTPUT	1
44	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION	2
45	12486	CARRIER ASSEMBLY PRIMARY	1
46	12516	CARRIER ASSEMBLY SECONDARY	1
47	10848	LABEL WARNING (NOT SHOWN)	1
48	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
49	81454	BEARING	1
50	9890	SEAL SHAFT	1
51	13306	GEAR SUN	1
52	81608	BUSHING ID 1-1/4 OD X 1 LG	1
AIR/HYD. KICKOUT GEAR END COVER INSTALLATION			
53	13675	COVER GEAR END	1
54	13295	PISTON AKO B/C/D	1
55	13296	CYLINDER PISTON	1
56	13297	COUPLING DRIVE	1
57	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
58	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
59	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
60	3303	RING RETAINING 1-1/4	1
61	3321	RING RETAINING RD SEC .805 I.D.	1
62	2309	SPRING COMPRESSION	1
63	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
64	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
65	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
66	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
66A	9992	O-RING .755 I.D. X .097 W 3-910	1
67	76343	PLUG SKT HD O-RING MAG #10	1
67A	9992	O-RING .755 I.D. X .097 W 3-910	1
68	1157	CAPLUG #4 RED (NOT SHOWN)	1
69	3059	RELIEF VENT	1
70	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
71	1395	WASHER LOCK 3/8	12
72	13235	GEAR SUN AKO	1
BASE MOUNT INSTALLATION			
71	11990	BASE - ANGLE	2
72	12005	PLATE - SIDE	
73	1504	SCREW, CAP HEX HEAD 5/8-11 X 2 GR5	
74	1505	SCREW CAP HEX HEAD 5/8-11 X 2-1/2 GR5	12
75	1590	NUT HEX 5/8 - 11 GR2	12
76	1595	WASHER LOCK 5/8	12
77	10466	PLATE INFORMATION	1
78	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4

NOTE: WHEN ORDERING WINCH PARTS, CUSTOMER MUST GIVE SERIAL NO. FOR WINCH. SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

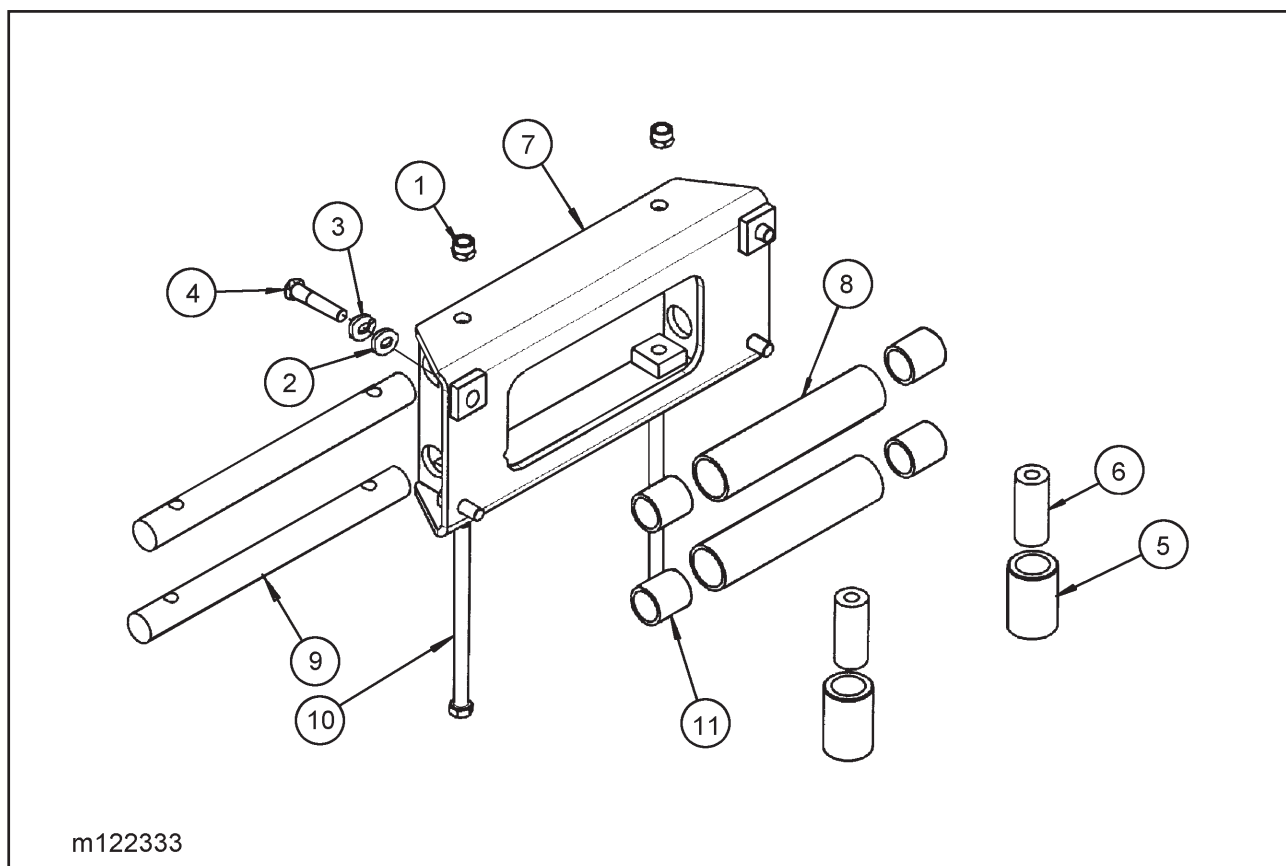
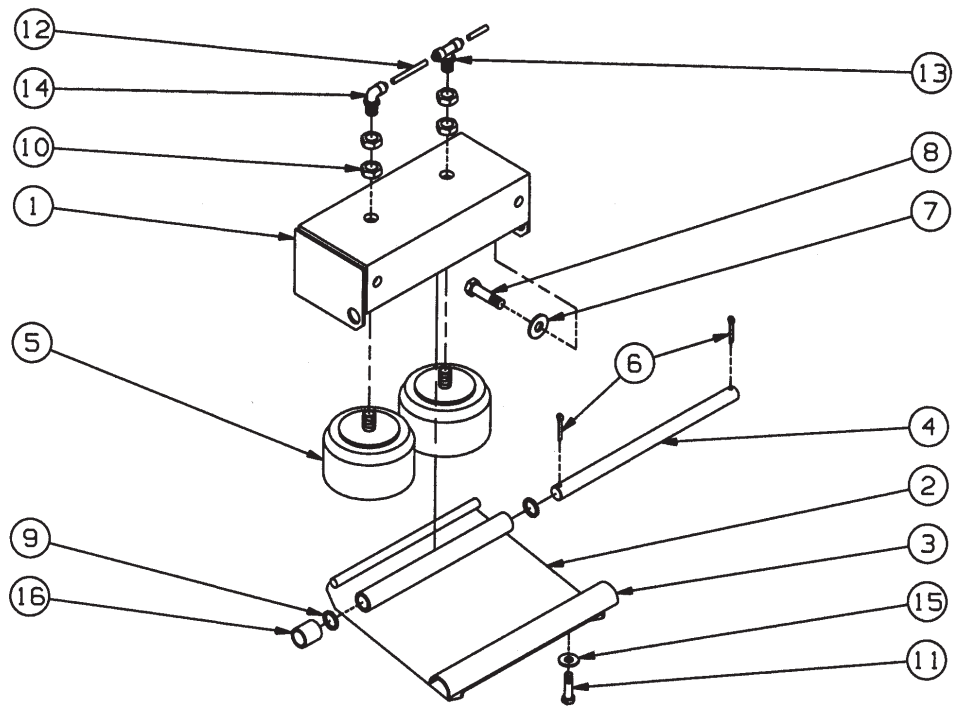


Figure 1-43 Winch Roller Guide - 30K

WINCH ROLLER GUIDE -30K

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	1-861-010032-18	WASHER, FLAT 5/8N	4
3	1-861-010034-15	WASHER, SPLIT LOCK 5/8	4
4	1-654-010059-09	SCREW, HEX HEAD CAP 5/8-11 X 3 GR5	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

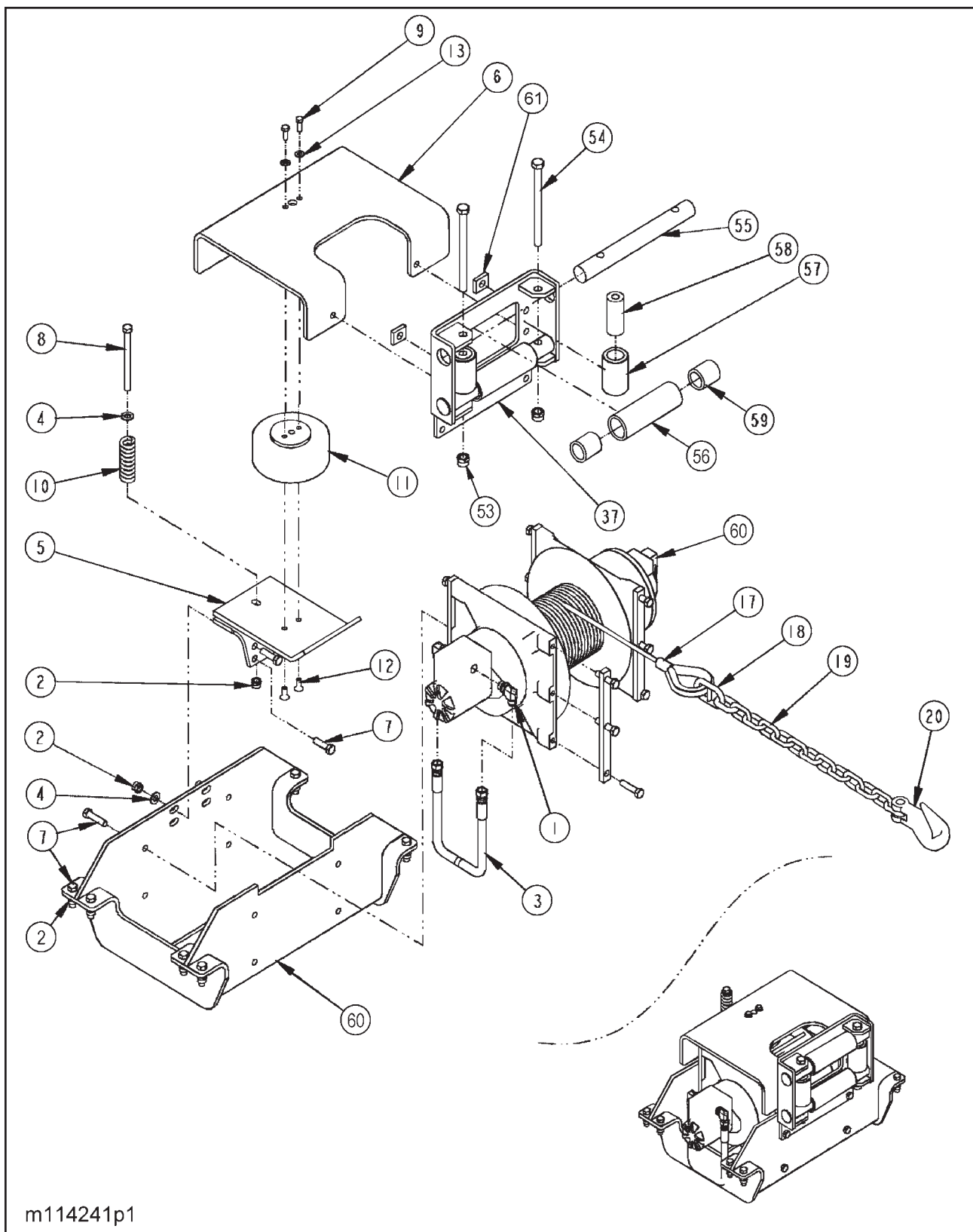


3ma873-010172

Figure 1-44 Winch, Cable Air Tension

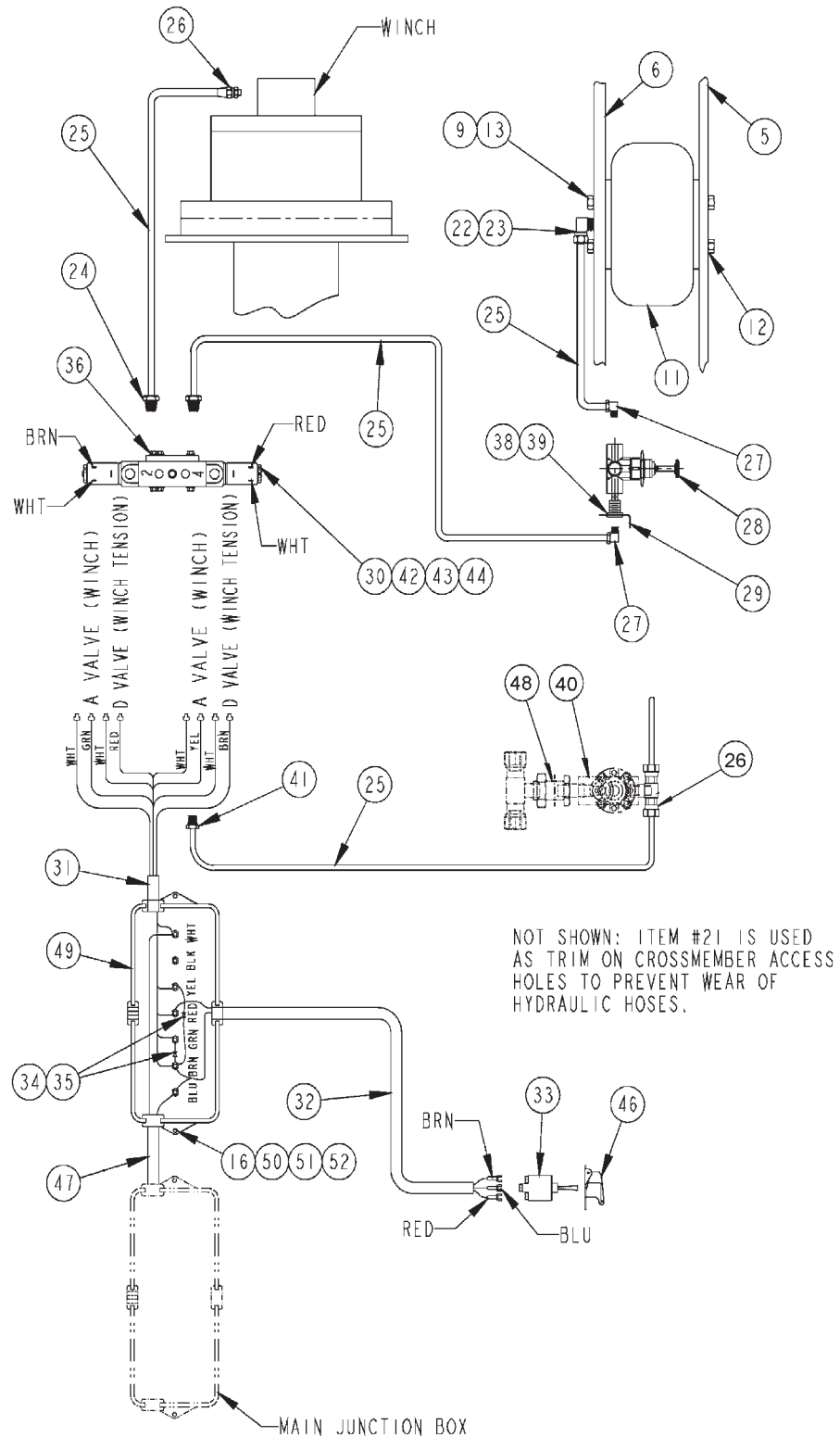
WINCH, CABLE AIR TENSION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010172	WINCH, CABLE AIR TENSION (30K)	
1	52859	MOUNTING BRACKET	1
2	132103	ARM	1
3	132104	RUB BAR	1
4	133938	PIVOT PIN	1
5	3445	AIR CUSHIONS	2
6	133939	COTTER PIN	2
7	1495	WASHER	2
8	1401	CAPSCREW	2
9	133940	WASHER	2
10	1589	JAM NUT	4
11	132105	CAPSCREW	2
12	69095	TUBING	REF
13	78402	ADAPTER TEE	1
14	78403	ADAPTER TUBE	1
15	132106	WASHER	2
16	133941	SPACER	1



m114241p1

Figure 1-45 12K, 15K, & 20K Upper Deck Winch (DP)
(1 of 2)



m114241p2

Figure 1-46 12K, 15K, & 20K Upper Deck Winch (DP)
(2 of 2)

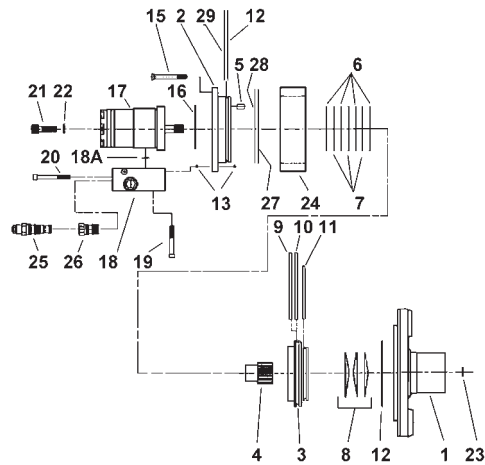
12K, 15K, & 20K UPPER DECK WINCH (DP)

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

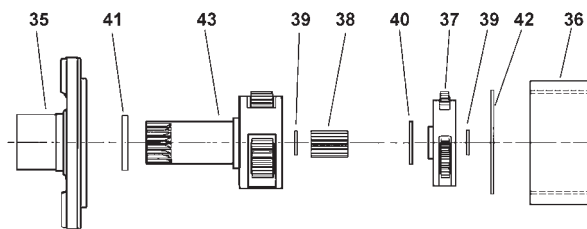
12K, 15K, & 20K UPPER DECK WINCH (DP)

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	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
54	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8	2
55	111383	ROD 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 1-83 FOR WINCH BREAKDOWNS)	
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2

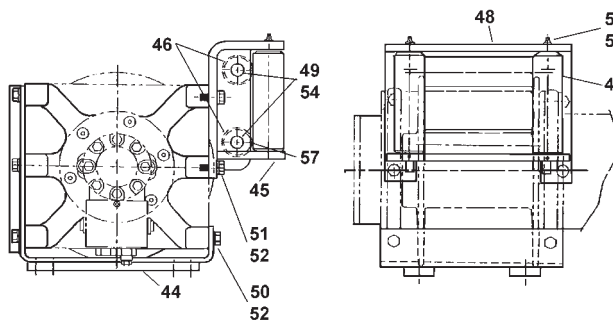
* USED ON AIR TENSION RELEASE MODELS



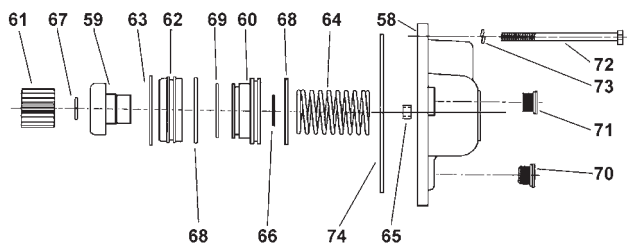
MOTOR END INSTALLATION



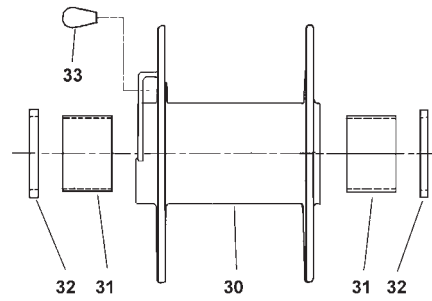
GEAR END INSTALLATION



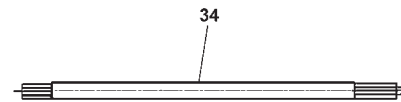
BASE INSTALLATION



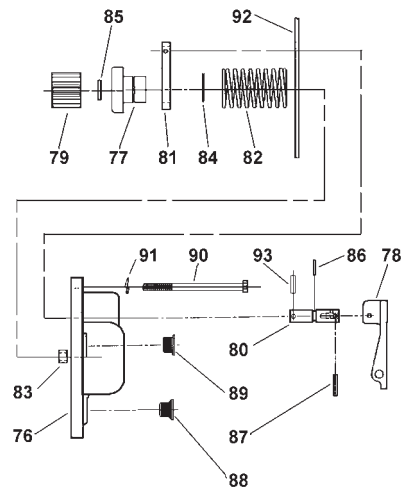
**AIR KICKOUT
GEAR END COVER INSTALLATION**



CABLE DRUM INSTALLATION



INPUT SHAFT INSTALLATION



**LEVER KICKOUT
GEAR END COVER INSTALLATION**

Figure 1-47 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	112641	MOTOR, HYDRAULIC (12K) MOTOR, HYDRAULIC (15K) 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
		INPUT SHAFT INSTALLATION	
34	13678	INPUT SHAFT	4

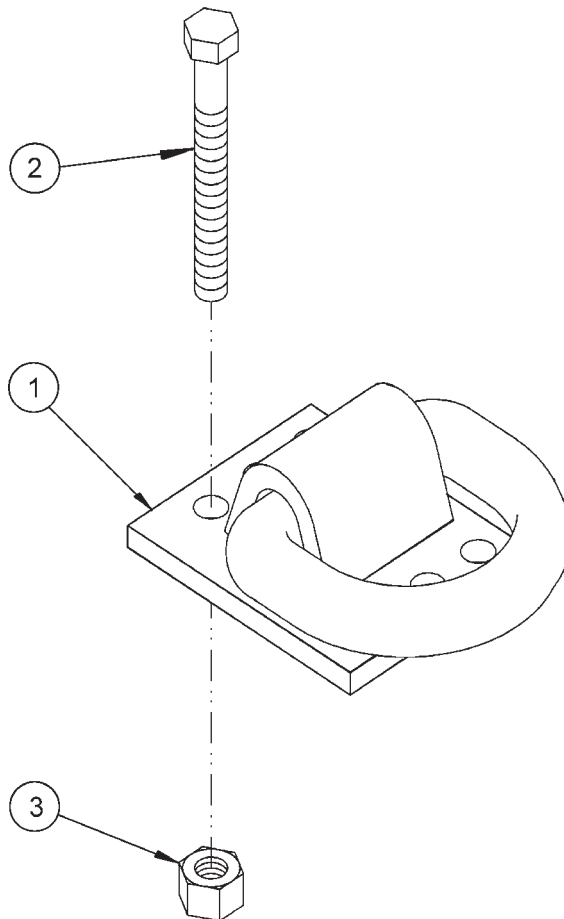
12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	DESCRIPTION	QTY.
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	132106	WASHER, LOCK 5/16	8
74	9897	O-RING	1
75	1157	CAPLUG (NOT SHOWN)	1
GEAR END COVER INSTALLATION - LEVER KICKOUT			
76	14182	COVER, GEAR END	1
77	13372	COUPLING, DRIVE	1

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

ITEM	PART NO.	DESCRIPTION	QTY.
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	132106	WASHER, LOCK 5/16	8
92	9897	O-RING	1
93	3456	PIN, SPRING 3/16 X 13/16	1

NOTE: WHEN ORDERING WINCH PARTS, CUSTOMER MUST GIVE SERIAL NO. FOR WINCH. SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

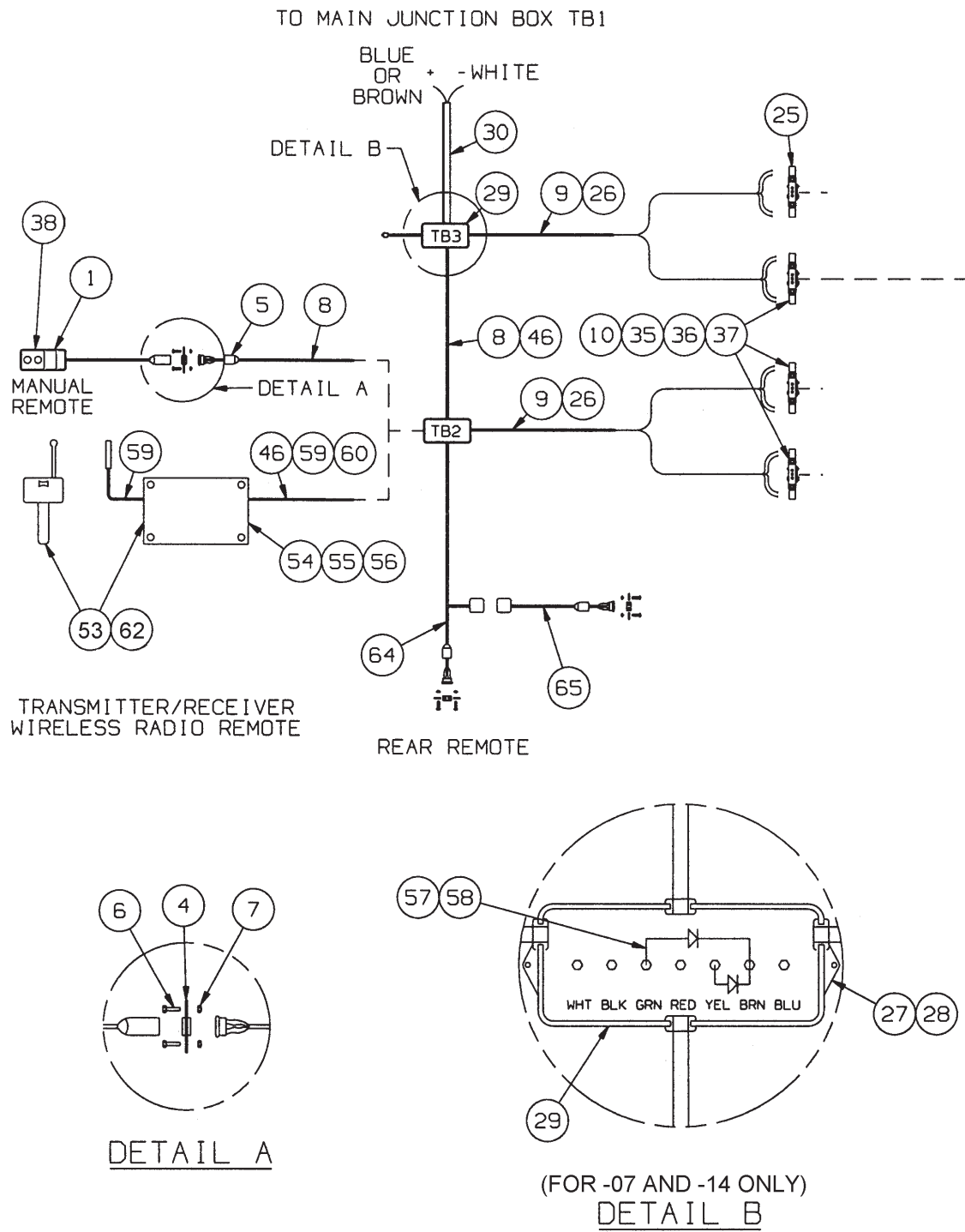


3m793-010041

Figure 1-48 Tie Down Installation (Option)

TIE DOWN INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	
1	3-793-010040	TIE DOWN, WINCH	1
2	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	6
3	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6



3mb410-011469a

Figure 1-49 Remote Control Items (1 of 2)

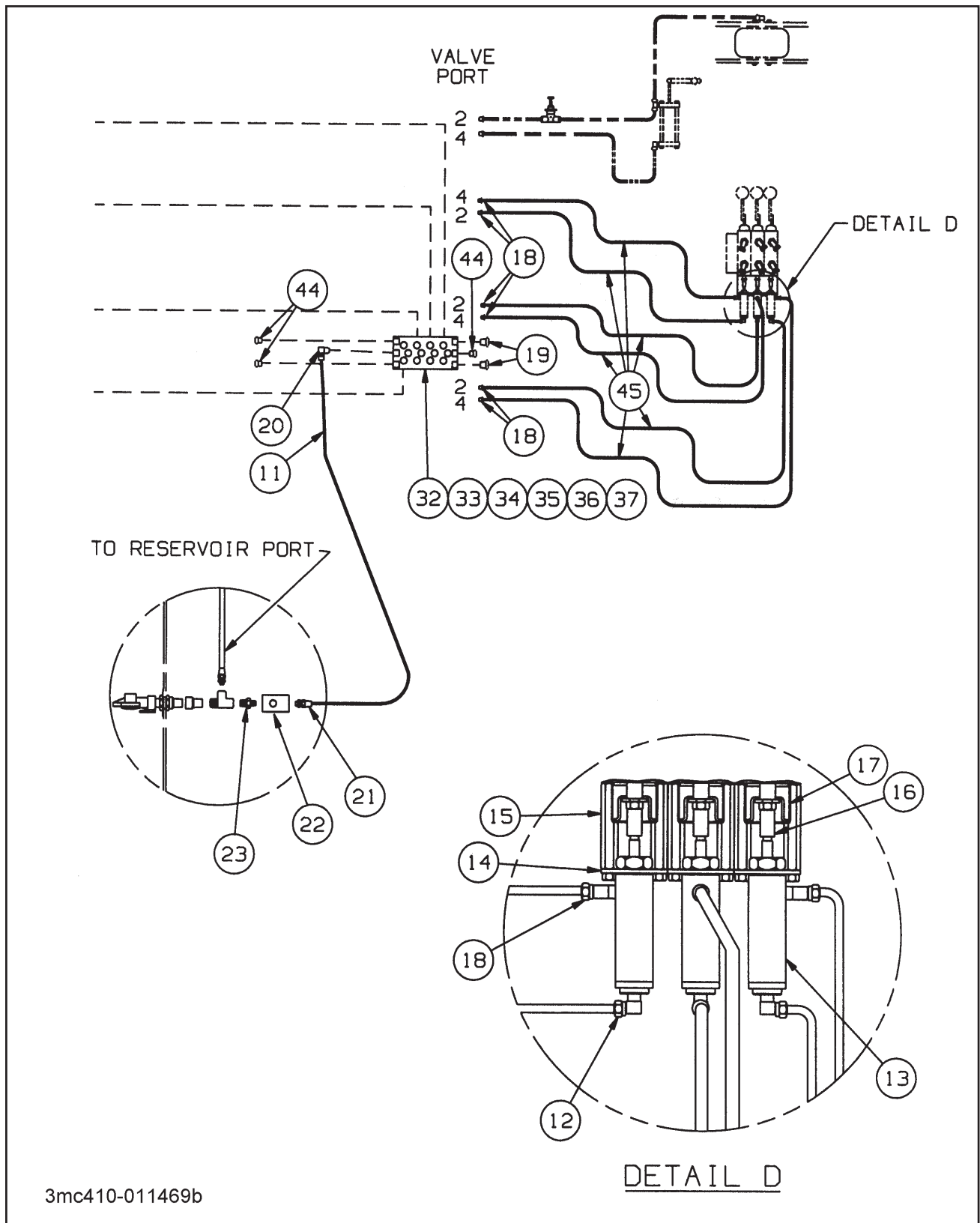


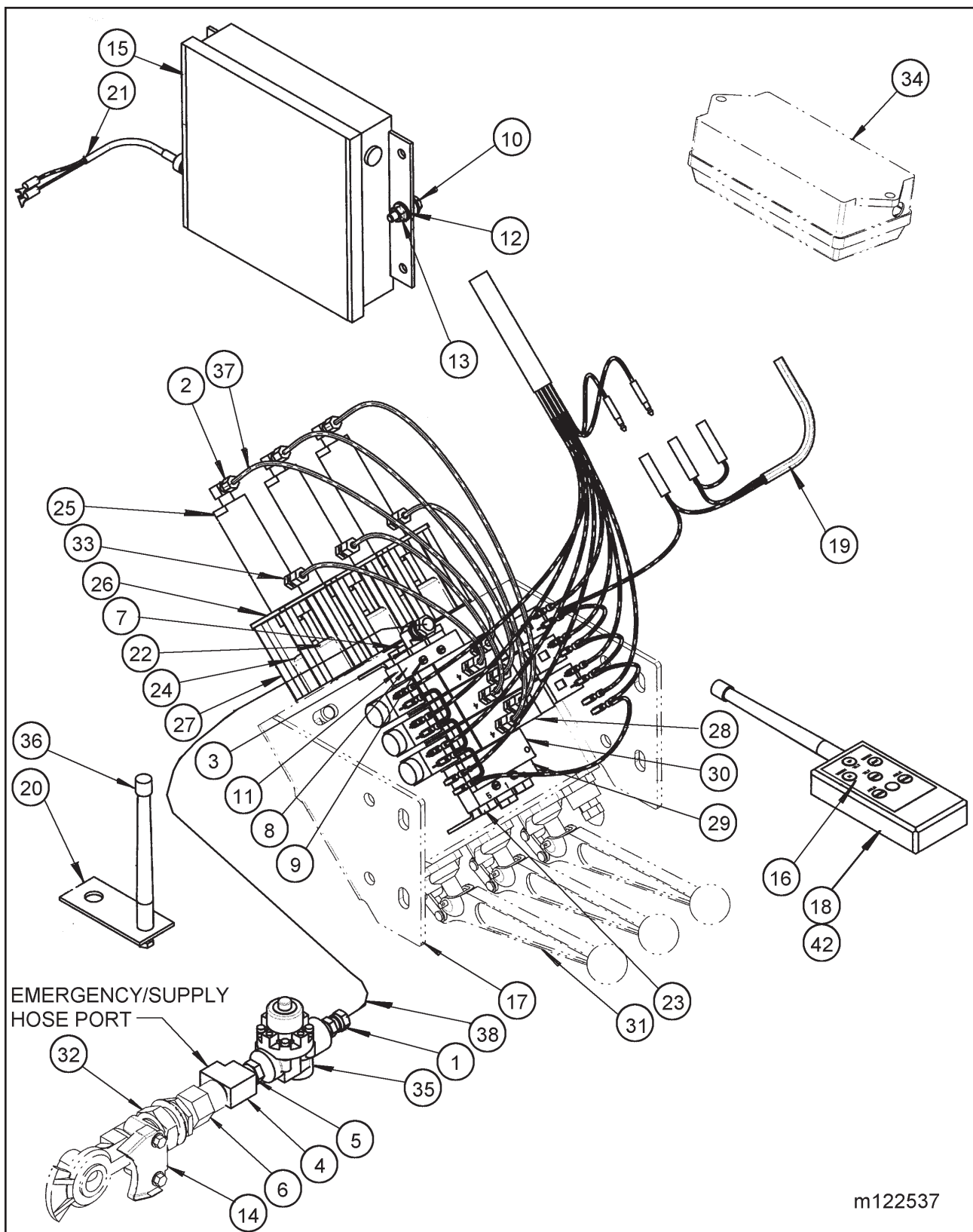
Figure 1-50 Remote Control Items (2 of 2)

WIRED REMOTE CONTROL ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.						
			-01	-02	-03	-04	-05	-06	-07
1	3-208-010053	REMOTE CONTROL ASSY	1	1	1	1	1	1	1
	3-765-010001	SW REMOTE CONT ASSY (SEE PAGE 1-95)	1	-	-	-	-	-	-
4	3-272-010125	RECEPTACLE 7-PIN	1	1	1	1	1	1	1
5	59W-2-3	RUBBER BOOT	1	1	1	1	1	1	1
6	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18X1-1/4 GR5	2	2	2	2	2	2	2
7	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2	2	2	2	2	2	2
8	3-368-010189	HARNESS PANEL	1	1	1	1	1	1	1
9	3-368-010125	HARNESS ASSEMBLY	-	1	1	-	1	1	1
10	3-843-010015	VALVE PNEUM. 4-WAY 3- POS	1	2	2	1	2	3	2
11	1-833-010001	NYLON TUBING 1/4 OD	AR	AR	AR	AR	AR	AR	AR
12	1-297-010008-01	FITTING AIR 90	1	2	2	1	2	3	2
13	3-238-010001	CYLINDER AIR	1	2	2	1	2	3	2
14	3-482-010288	MT AIR CYL VALVE	1	2	2	1	2	3	2
15	3-711-010055	SPACER	4	8	8	4	8	12	8
16	3-007-010039	ADAPTER AIR CYLINDER	1	2	2	1	2	3	2
17	3-161-010034	CAP MOD. VALVE SPOOL	1	2	2	1	2	3	2
18	68CA-2-2	CONNECTOR AIR	3	6	6	3	6	9	6
19	3-136-010001-02	BREATHER PNEUMATIC EXCH 1/4 NPT	2	2	2	2	2	2	2
20	1-297-010008-07	FITTING AIR 90	1	1	1	1	1	1	1
21	1-297-010007-05	FITTING AIR STR	1	1	1	1	1	1	1
22	905-54-107	VALVE FILTER PRESSURE	1	1	1	1	1	1	1
	48100200	FILTER	1	1	1	1	1	1	1
23	1-297-010019-05	FITTING BRS PIPE HEX	1	1	1	1	1	1	1
25	3-843-010022	VALVE PNEU. 4-WAY 2-POS	REF	REF	REF	REF	REF	REF	REF
26	3-368-010129	HARNESS ASSY	1	-	-	1	-	1	-
27	1-861-010032-06	WASHER FLAT 1/4N	2	2	2	2	2	4	4
28	1-512-010005-01	NUT HEX LOCK 1/4- 20 GRB	2	2	2	2	2	4	4
29	750-029	JUNCTION BOX 7-STUD	1	1	1	1	1	2	2
30	3-368-010188	HARNESS PWR JUMPER	1	1	1	1	1	1	1
32	3-843-010023	VALVE PNEU MANIFOLD	-	1	1	-	1	1	1
33	3-843-010025	VALVE PNEU MANIFOLD	1	-	-	1	-	-	-
34	3-843-010024	VALVE BLK STATION CVR	1	2	2	-	2	1	1
35	1-654-010024014	SCREW MACH SLOT #6-32X1-1/2 GR2	4	4	4	4	4	4	4
36	1-861-010032-01	WASHER FLAT #6	4	4	4	4	4	4	4
37	1-512-010003-02	NUT HEX LOCK #6-32 GRB	4	4	4	4	4	4	4
38	3-209-010004-01	CNTRL RMT WINCH TILT 660	-	1	-	-	-	-	-
	3-209-010004-03	CNTRL RMT WINCH U/C 660	-	-	1	-	-	-	-
	3-209-010004-04	CNTRL RMT TILT U/C	-	-	-	-	1	-	-
	3-209-010006-01	CNTRL RMT TILT/WN/U/C	-	-	-	-	-	1	-
	3-209-010006-02	CNTL RMT WINCH TILT TEN	-	-	-	-	-	-	1
	3-209-010004-02	CNTRL RMT WINCH (SEE PAGE 1-95)	-	-	-	1	-	-	-
44	1-297-010033-02	PLUG BRASS PIPE 1/4	3	6	6	3	6	9	6
45	NB-2-016	TUBING NYLON 1/8 OD	3	6	6	3	6	9	6
64	3-368-010190	HARNESS ASSY RR 48 (OPT)	1	1	1	1	1	1	1
65	3-368-010191	HARNESS ASSY CURB (OPT)	1	1	1	1	1	1	1

RADIO REMOTE CONTROL ITEMS(REF. FIG. 1-49 AND 1-50)

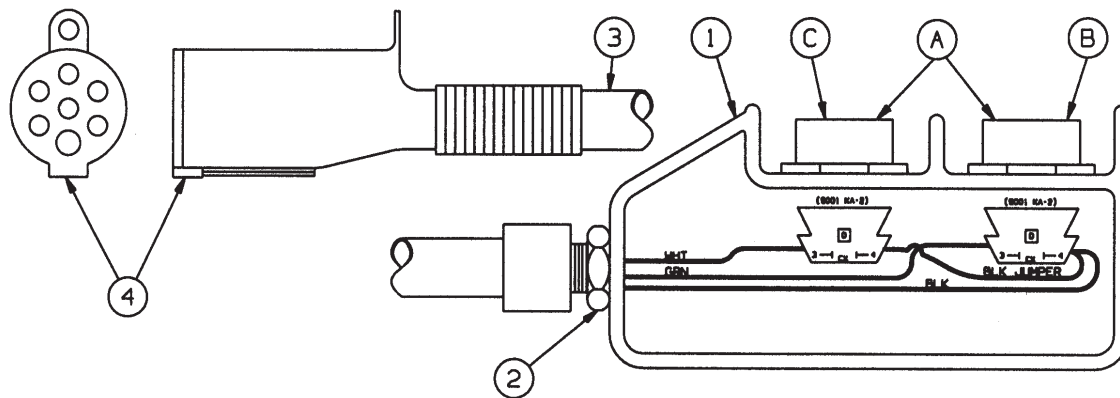
ITEM	PART NO.	DESCRIPTION	QTY.
	3-208-010053-14	REMOTE, RADIO WINCH/TILT/AXLE/TENSION	
9	3-368-010125	HARNESS ASSEMBLY	1
10	3-843-010015	VALVE PNEUMATIC	3
11	1-833-010001	NYLON TUBING 1/4	AR
12	1-297-010008-01	FITTING AIR 90	3
13	3-238-010001	CYLINDER AIR	3
14	3-482-010288	MOUNT AIR CYLINDER VALVE	3
15	3-711-010055	SPACER	12
16	3-007-010039	ADAPTER AIR CYLINDER	3
17	3-161-010034	CAP MOD VALVE SPOOL	3
18	68CA-2-2	CONNECTOR AIR	9
19	3-136-010001-02	BREATHING PNEUMATIC EXCH	2
20	1-297-010008-07	FITTING AIR 90	2
21	1-297-010007-05	FITTING AIR STR	1
22	905-54-107	VALVE & FILTER PRESSURE	1
	48100200	FILTER	1
23	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
25	3-843-010022	VALVE PNEUMATIC 4-WAY 2-POS	REF
26	3-368-010129	HARNESS ASSEMBLY SGL REMOTE	1
27	1-861-010032-06	WASHER, FLAT 1/4N	4
28	1-512-010005-01	NUT, HEX LOCK 1/4-20	4
29	750-029	JUNCTION BOX 7-STUD	2
30	3-368-010188	HARNESS POWER JUMPER 660	1
32	3-843-010023	VALVE PNEUMATIC MANIFOLD	1
35	1-654-010024014	SCREW MACH SLOT #6-32 GR2	4
36	1-861-010032-01	WASHER FLAT #6	4
37	1-512-010003-02	NUT HEX LOCK #6-32 GRB	4
44	1-297-010033-02	FTG BRASS PLUG HEX 1/4	3
45	NB-2-016	TUBING NYLON FLEX 1/8 OD	9
46	3-153-010014	CABLE ASSEMBLY	1
53	3-208-010055-03	CONTROL RADIO WINCH/TILT/AXLE/TENSION	1
	111722	REMOTE, RADIO 7 FUNCTION (PRIOR 10/11/01)	-
	119625	REMOTE, RADIO HANDHELD (AFTER 10/11/01)	-
54	1-512-010007-05	NUT HEX 1/4-20 GRB	3
55	1-861-010032-06	WASHER FLAT #10	6
56	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	3
57	2-272-010109	ZENOR DIODE 20V 5A	REF
58	3-272-010018	HEAT SHRINK INSULATOR	REF
59	1-796-010002-01	TIE STRAP PLASTIC	5
60	900729-3	CLAMP HOSE	1
61	3-203-010001	RING TERMINAL (NOT SHOWN)	5
62	113661	MEMBRANE, OVERLAY	1



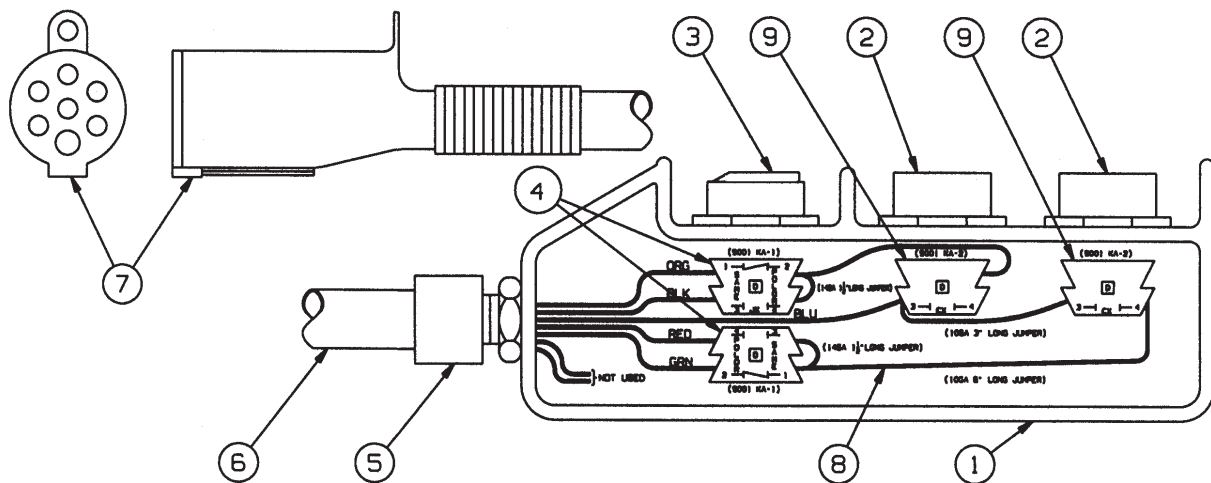
m122537

RADIO REMOTE CONTROL ASSEMBLY

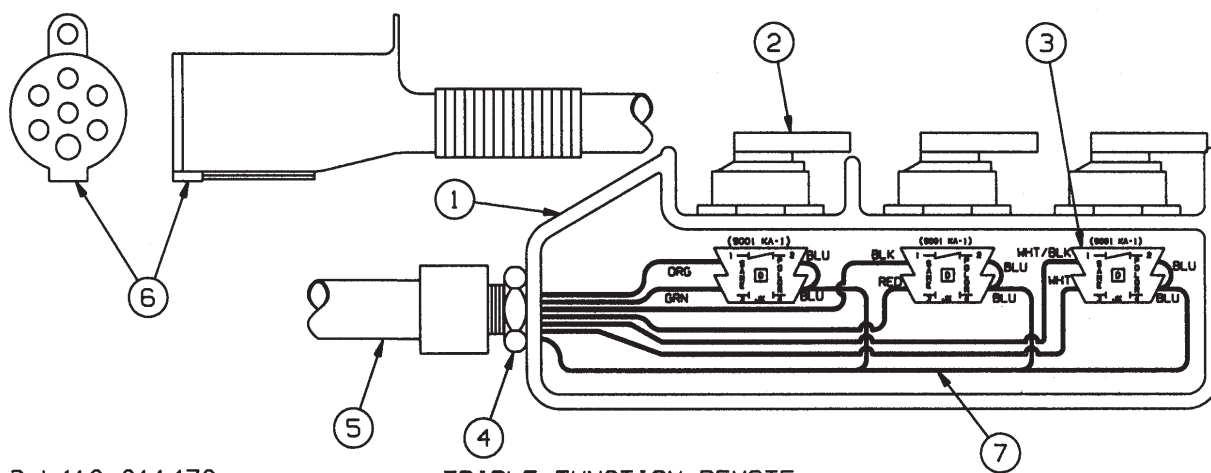
ITEM	PART NO.	DESCRIPTION	QTY.
	122537	REMOTE, RADIO WINCH/TILT/AXLE	
1	1-297-010007-05	FITTING AIR STR	1
2	1-297-010008-01	FITTING AIR 90	3
3	1-297-010008-07	FITTING AIR 90	1
4	1-297-010018-03	FITTING AIR	1
5	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
6	1-297-010021-05	FITTING BRS	REF
7	1-297-010033-02	FTG BRASS PLUG HEX 1/4	3
8	1-512-010003-02	NUT HEX LOCK #6-32 GRB	4
9	1-654-010024014	SCREW MACH SLOT #6-32 GR2	4
10	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
11	1-861-010032-01	WASHER FLAT #6	4
12	1-861-010032-06	WASHER FLAT #10	4
13	108417	NUT, SPIRALOCK HEX FLANGE 1/4-20	2
14	108801	GLADHAND-RED-AIR	REF
15	112691	RECEIVER RADIO REMOTE	1
16	113661	MEMBRANE, OVERLAY	1
17	116837	VALVE MOUNT WELDMENT CONTROLS	REF
18	119626	TRANSMITTER RADIO REMOTE	1
19	120695	HARNESS POWER JUMPER REMOTE	1
20	121352	MOUNT, ANTENNA RADIO REMOTE	1
21	123126	CABLE, REMOTE ANTENNA 15FT	1
22	3-007-010039	ADAPTER AIR CYLINDER	3
23	3-136-010001-02	BREATHING PNEUMATIC EXCH	2
24	3-161-010034	CAP MOD VALVE SPOOL	3
25	3-238-010001	CYLINDER AIR	3
26	3-482-010288	MOUNT AIR CYLINDER VALVE	3
27	3-711-010055	SPACER	12
28	3-843-010015	VALVE PNEUMATIC	3
29	3-843-010023	VALVE PNEUMATIC MANIFOLD	1
30	3-843-010024	VALVE BLK STATION COVER	1
31	3-846-010008	VALVE, 3 SPOOL 2500 PSI	REF
32	55B61	FRAME UNION	REF
33	68CA-2-2	CONNECTOR AIR	9
34	750-029	JUNCTION BOX 7-STUD	REF
35	905-54-107	VALVE & FILTER PRESSURE	1
	48100200	FILTER	1
36	A001	ANTENNA, RADIO REMOTE	1
37	NB-2-016	TUBING NYLON FLEX 1/8 OD	AR
38	1-833-010001	NYLON TUBING 1/4	AR
39	1-796-010002-01	TIE STRAP PLASTIC	5
40	119625	REMOTE, RADIO HANDHELD (INCL ITEMS 15,18,&36)	1
41	120696	HARNESS, 5FT RADIO REMOTE (NOT SHOWN)	1
42	112948	BATTERY, 9 VOLT	1



SINGLE FUNCTION REMOTE



DUAL FUNCTION REMOTE



TRIPLE FUNCTION REMOTE

3mb410-011470

Figure 1-52 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE

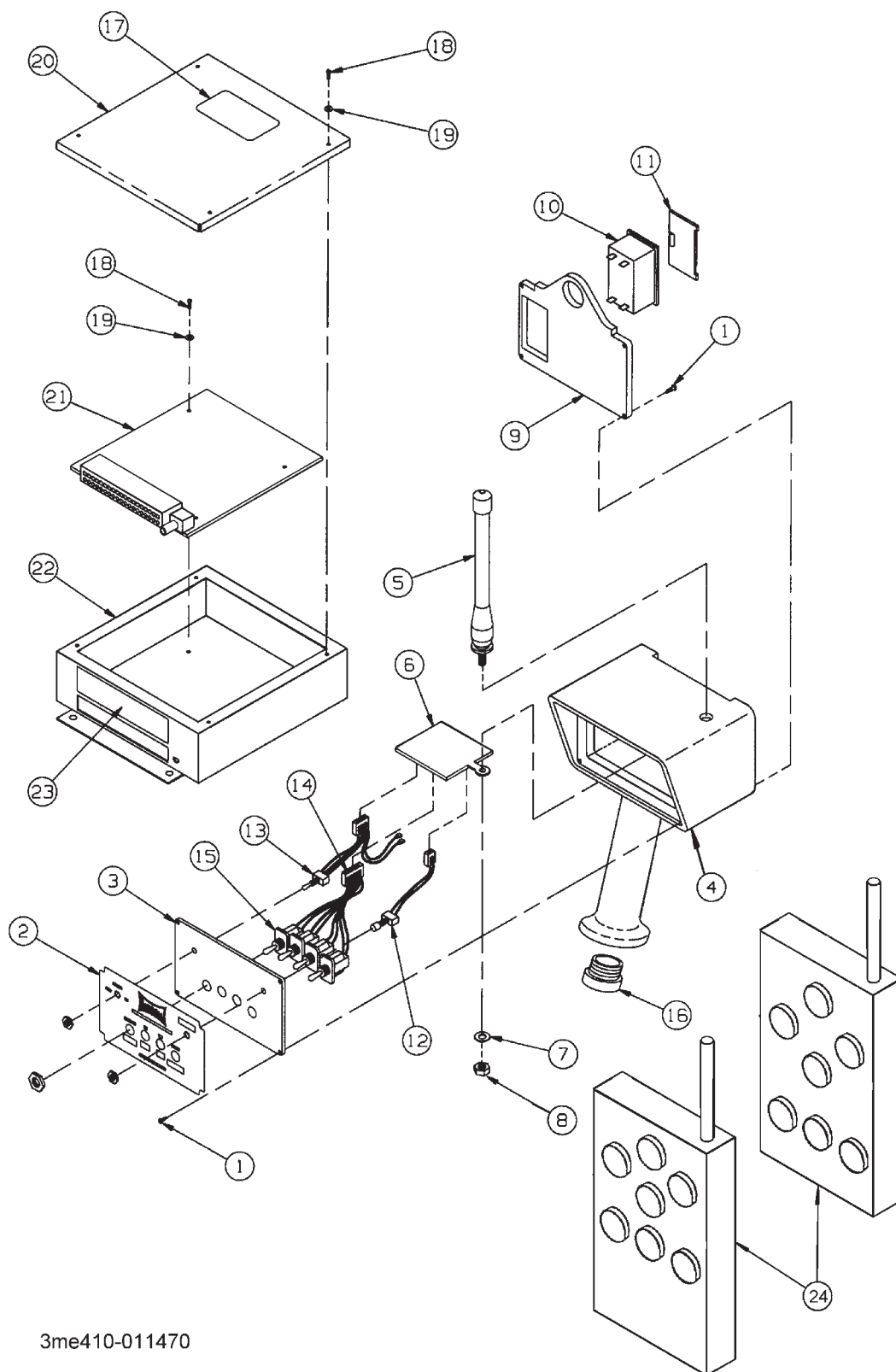
ITEM	PART NO.	DESCRIPTION	QTY.
1	3-765-010001	SWITCH REMOTE CONTROL ASSY	
	3-209-010003	PUSH BUTTON STATION	1
	106069	SHORT RING NUT FOR BUTTON	1
A	9001-BW70YU	CONTROL STATION SQD(CONTACT BLKS INCL)	1
B	9001-B256	REVERSE LEGEND	1
C	9001-B255	FORWARD LEGEND	1
2	DB-10	STRAIN RELIEF CORD CONN	1
3	3-156-010007	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	1
	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	1
	100290	DECAL, REMOTE WINCH-WINCH (DECALS NOT SHOWN)	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	3-573-010394	DECAL, TILT WINCH UNDERCARRIAGE	1
	3-573-010395	DECAL, TILT WINCH UNDERCARRIAGE (DECALS NOT SHOWN)	1



3me410-011470

Figure 1-53 Wireless Remote Control

WIRELESS RADIO REMOTE CONTROL

ITEM	PART NO.	DESCRIPTION	QTY.
	3-208-010055	CONTROL (MICROTRONICS # *P-MT-STD-DF)	
	T*P*MT-STD-DF	TRANSMITTER (ITEMS 1 - 16)	1
1	H068	SCREW #6 X 1/2" SHEET METAL	8
2	**	DECAL, FACEPLATE	1
3	P003	METAL PLATE	1
4	E007	PISTOL GRIP HOUSING	1
5	A001	ANTENNA	2
6	**	TRANSMITTER PC BOARD	1
7	H048	PLASTIC WASHER	1
8	H046	NUT, 1/4" - 28 BRASS	1
9	E007	BACK PLATE, PISTOL GRIP	1
10	E002	BATTERY COMPARTMENT	1
11	H015	BATTERY DOOR	1
12	AY102	EMERGENCY STOP SWITCH W/ HARNESS	1
13	AY103	POWER SWITCH W/ HARNESS	1
14	AY109	TOGGLE WIRING HARNESS (SWITCHES TO PC BOARD)	AR
15	S005	TOGGLE SWITCH	AR
16	H018	PISTOL GRIP END CAP	1
	R*P-MT-STD-DF	RECEIVER (ITEMS 17 - 23)	1
17	LB004	FCC LABEL	1
18	H038	SCREW, #6	8
19	H039	WASHER #6 STAR	8
20	E001	LID, RECEIVER	1
21	**	RECEIVER PC BOARD	1
22	E001	HOUSING, RECEIVER	1
23	LB005	OUTPUT LABEL, RECEIVER	1
24	111722	REMOTE RADIO 7 FUNCTION (PRIOR 10/8/01)	1
	112690	HANDHELD TRANSMITTER	1
	112691	RECEIVER	1
	119625	REMOTE, RADIO HAND HELD (AFTER 10/8/01)	1
	119626	HANDHELD TRANSMITTER	1
	112691	RECEIVER	1
	113661	MEMBRANE OVERLAY REMOTE (AFTER 10/8/01)	1

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

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

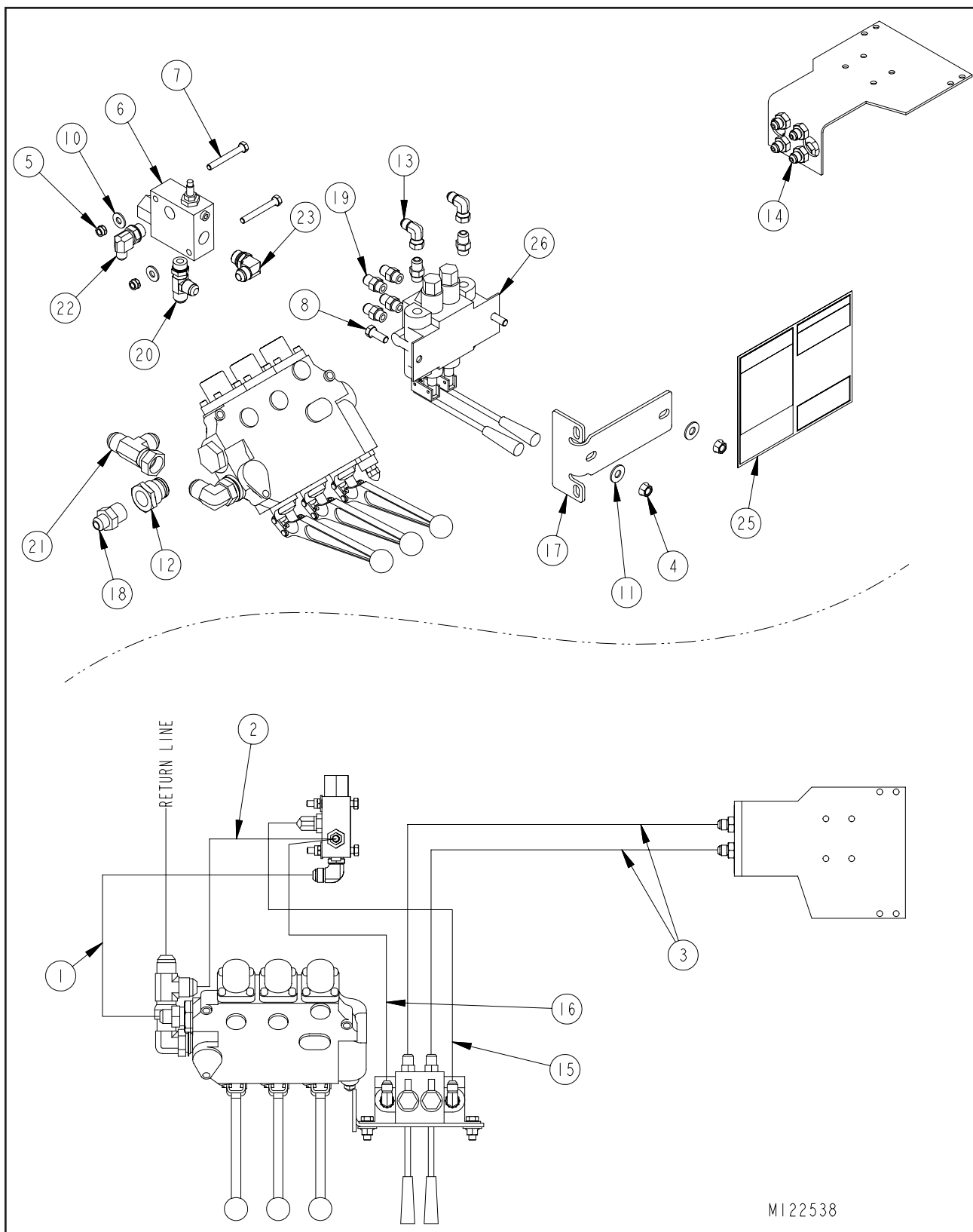
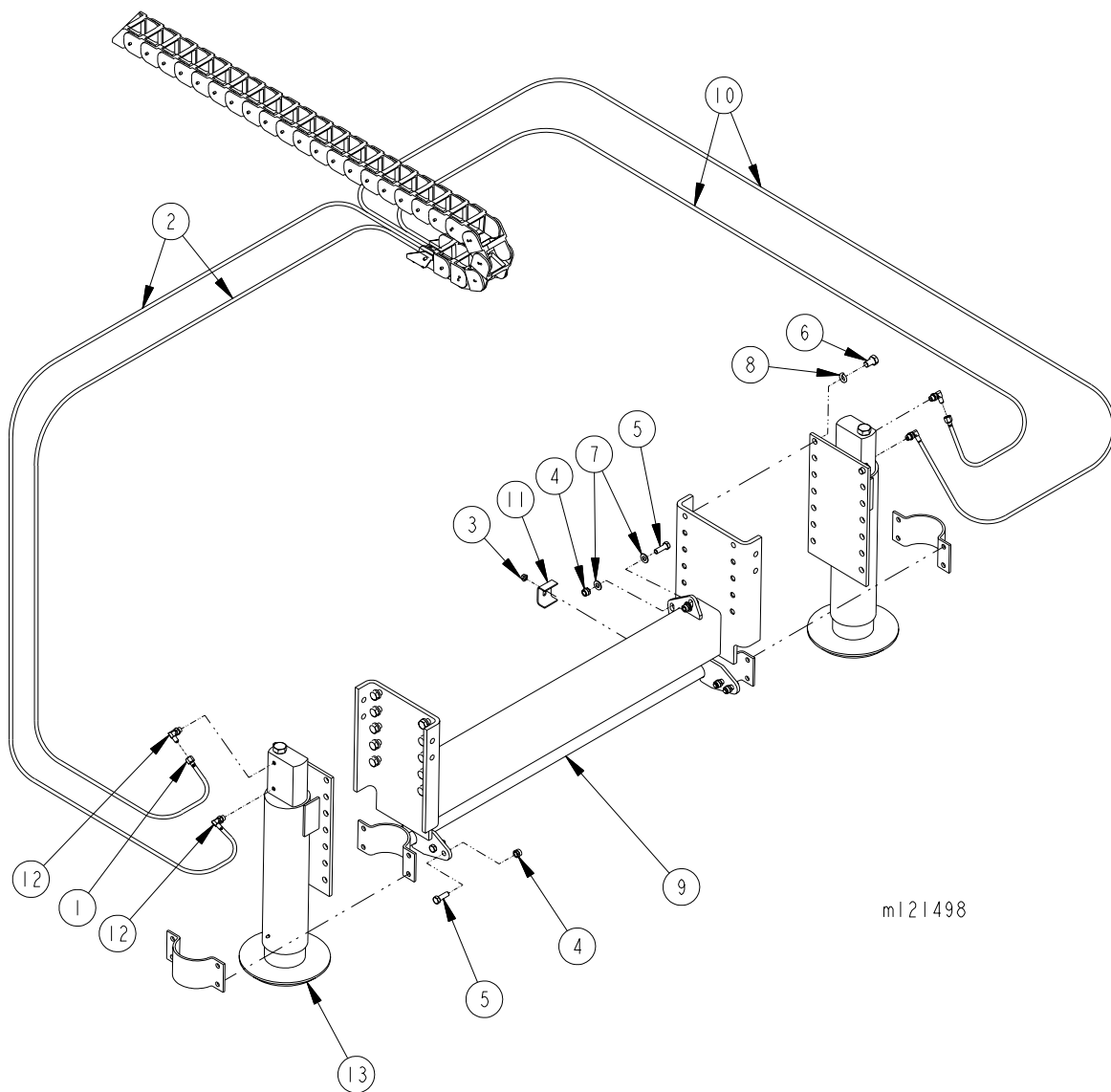


Figure 1-54 Dock Leveler Hydraulic Installation (Option)

DOCK LEVELER HYDRAULIC INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	122538	DOCK LEVELER HYDRAULIC INST 410-50	
	122812	DOCK LEVELER HYDRAULIC INST 410-48	
	126641	DOCK LEVELER HYDRAULIC INST 410-53	
	123211	DOCK LEVELER HYDRAULIC INST 425-41	
1	1-397-010302018	HOSE ASSEMBLY 1/2 X 18	1
2	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1
3	1-397-010307356	HOSE ASSEMBLY 3/8 X 356 (50')	4
	122813	HOSE ASSEMBLY 3/8 X 332 (48')	4
	126736	HOSE ASSEMBLY 3/8 X 392 (53')	4
	104330	HOSE ASSEMBLY 3/8 X 258 (41')	4
4	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
5	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
6	1-626-010002	REGULATOR FLOW 1/2 BYPASS ONLY	1
7	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18X2-1/2 GR5	2
8	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
9	1-796-010003-02	TIE, STRAP PLASTIC (NOT SHOWN)	AR
10	1-861-010032-09	WASHER FLAT 5/16W	2
11	1-861-010032-11	WASHER, FLAT 3/8W	2
12	1V0208	POWER BEYOND REMOTE	1
13	102-0031	ADAPTER, 90	2
14	102-1097	37 FLARE BULKHEAD/ 37 FLARE	4
15	111302	HOSE ASSEMBLY 3/8 X 24	1
16	116429	HOSE ASSEMBLY 3/8 X 25	1
17	121124	BRACKET, VALVE DOCK LEVEL CONTROL	1
18	2021-12-8S	ADAPTER	1
19	202702-6-6S	ADAPTER STRAIGHT	6
20	203005-8-8S	ADAPTER, TEE	1
21	203102-12-12S	ADAPTER TEE	1
22	2062-8-6S	ADAPTER 90°	1
23	2062-8-8S	ADAPTER 90°	1
24	3-201-010002	CONDUIT FLEX PLASTIC 3/8 (NOT SHOWN)	3
25	3-573-010202	DECAL, DANGER OP D/L (REAR)	1
26	3-846-010056	VALVE, DOUBLE SPOOL STACK (SEE PAGE 1-104)	1



m121498

Figure 1-55 Dock Leveler Assembly, Single 60K

DOCK LEVELER ASSEMBLY, SINGLE 60K

ITEM	PART NO.	DESCRIPTION	QTY.
	121498	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	1-007-010058	ADAPTER 90° 3/8 ELBOW W/ RESTR	2
2	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	2
3	1-510-010001	NUT FLANGE LOCK 3/8-16 GRB	5
4	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
5	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	8
6	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11X1 GR5	24
7	1-861-010032-14	WASHER FLAT 1/2N	8
8	1-861-010034-15	WASHER SPLIT LOCK 5/8	24
9	121402	MOUNT WELDMENT, D/L	1
10	122540	HOSE ASSEMBLY 1/4 X 240	2
11	2-181-010001	CLAMP HOSE	3
12	2062-6-4S	ADAPTER 90	4
13	3-242-010205	CYLINDER, HYD 4X15 (W/ COLLAR)(SEE PG 1-103)	2

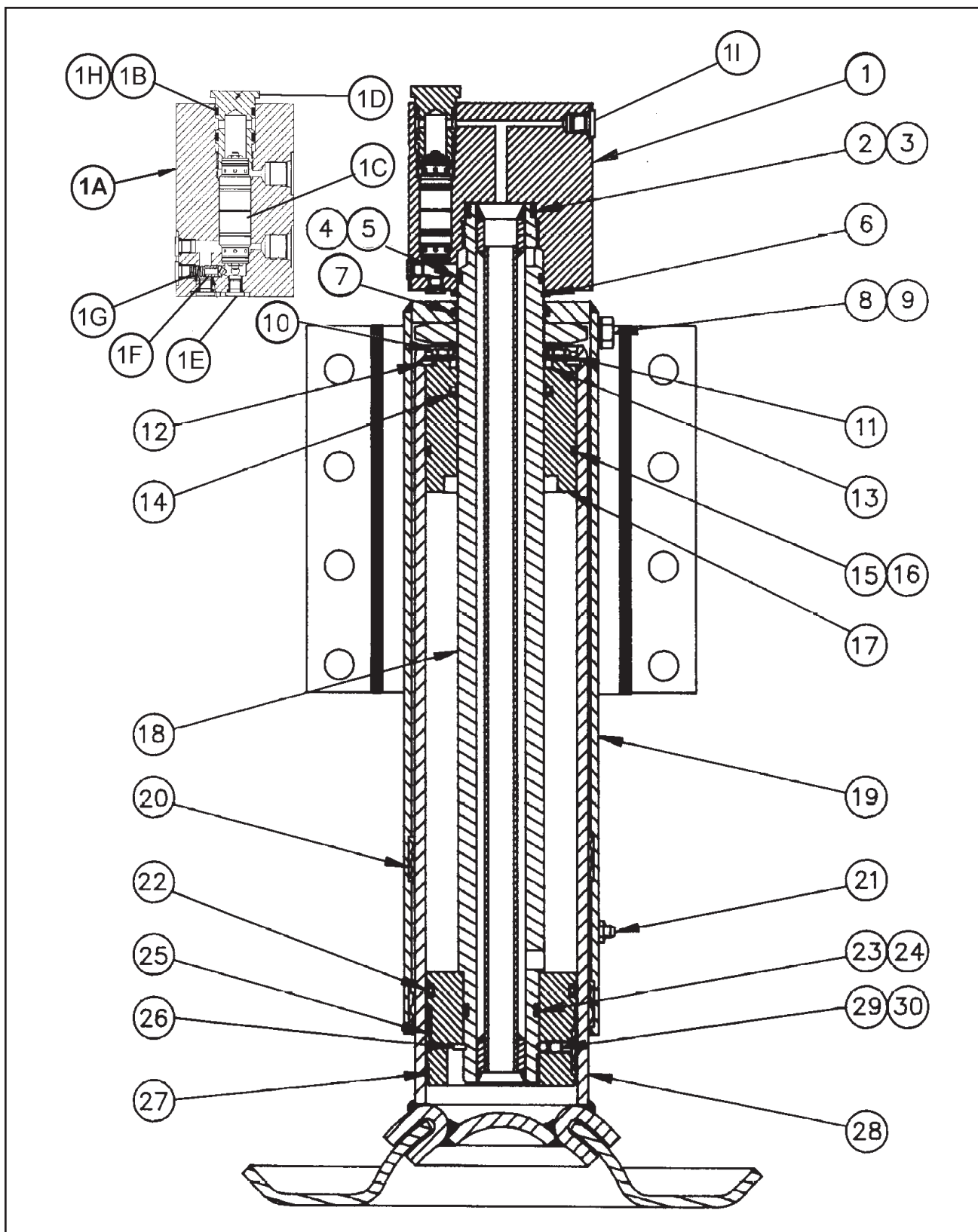


Figure 1-56 Dock Leveler Leg Assembly w/ Lock Valve

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

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

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

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

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

NSS: NOT SOLD SEPARATELY.

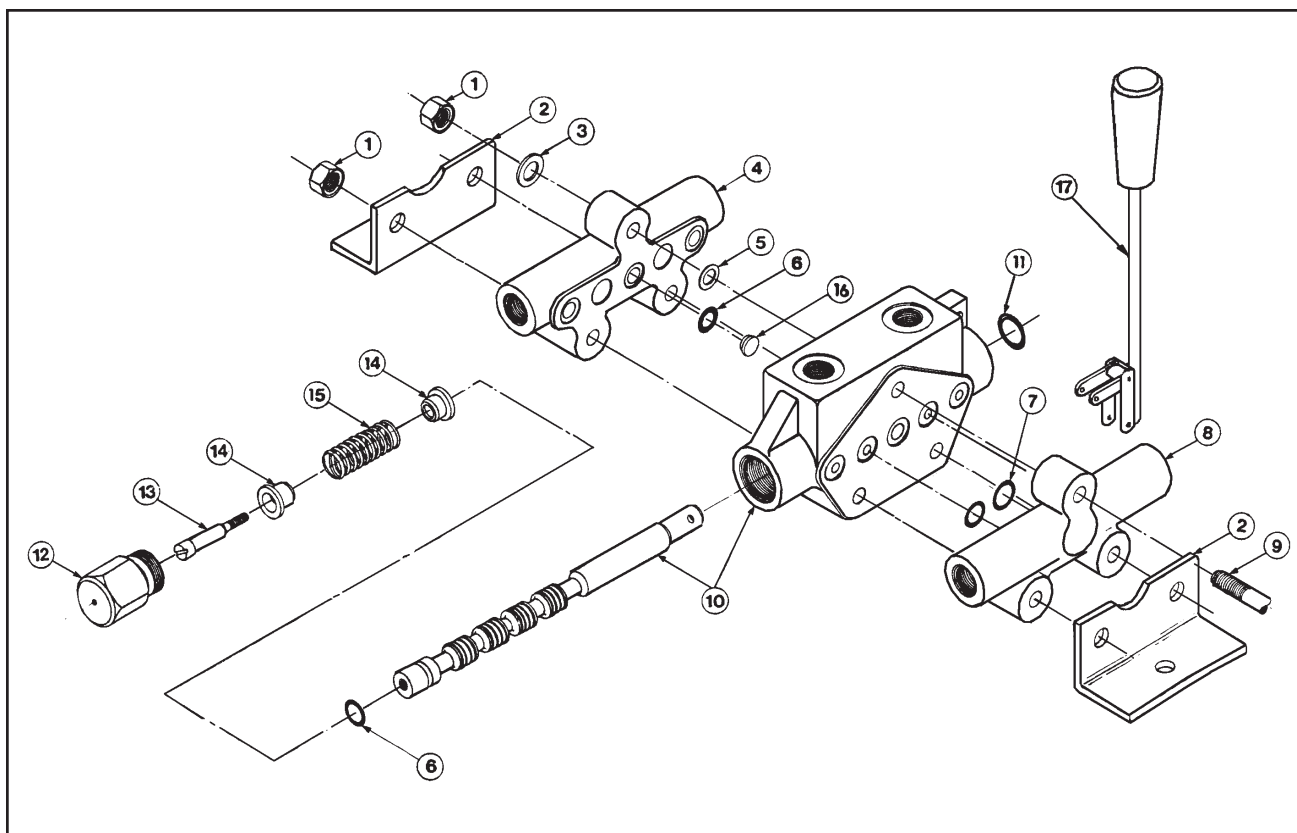


Figure 1-57 Dock Leveler Valve

DOCK LEVELER VALVE

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

1-105

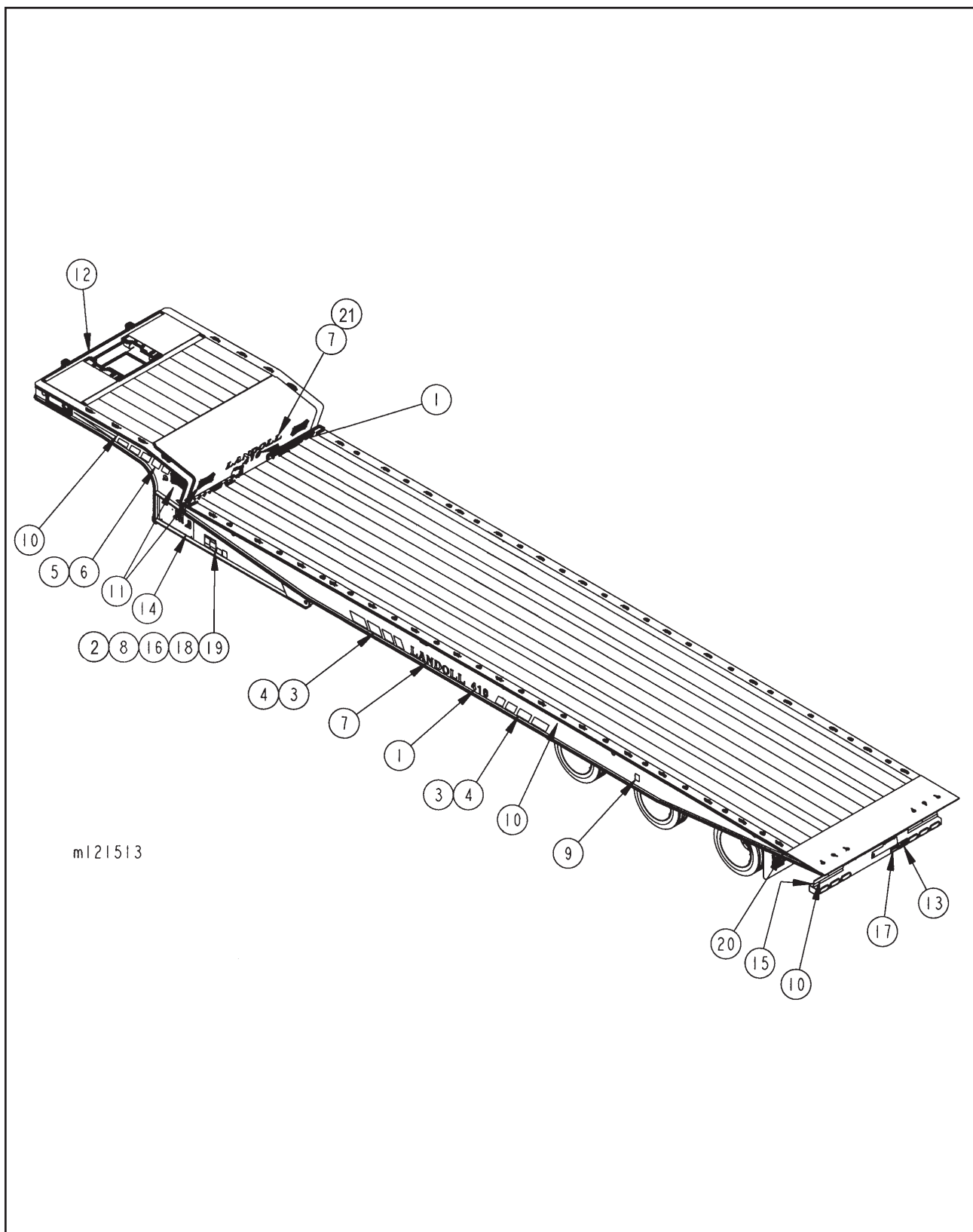


Figure 1-59 Decal Placement

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	121513	DECALS US410 WHITE/DK 70K	
	121514	DECALS US410 BLACK/WHITE 70K	
	117394	DECALS 425 BLACK 30K/16 FT.	
	117395	DECALS 425 WHITE 30K/16 FT.	
	117396	DECALS 425 BLACK 40K/16 FT.	
	117397	DECALS 425 WHITE 40K/16 FT.	
	127190	DECALS 435 BLACK 50K	
	127189	DECALS 425 WHITE 50K	
1	116850	DECAL 410 WHITE DC 5"	2
	118958	DECAL 410 BLACK DC 5"	2
	118800	DECAL 425 BLACK DC 5"	2
	118803	DECAL 425 WHITE DC 5"	2
	127192	DECAL 435 BLACK DC 5"	2
	127191	DECAL 435 WHITE DC 5"	2
2	2-573-010335	DECAL DANGER PINCH	2
3	3-573-010040	DECAL FRONT STRIPE (LEFT BLACK)	2
	3-573-010042	DECAL FRONT STRIPE (LEFT WHITE)	2
4	3-573-010041	DECAL FRONT STRIPE (RIGHT BLACK)	2
	3-573-010043	DECAL FRONT STRIPE (RIGHT WHITE)	2
5	3-573-010044	DECAL TAPERED STRIPE (LEFT BLACK)	1
	3-573-010046	DECAL TAPERED STRIPE (LEFT WHITE)	1
6	3-573-010045	DECAL TAPERED STRIPE (RIGHT BLACK)	1
	3-573-010047	DECAL TAPERED STRIPE (RIGHT WHITE)	1
7	3-573-010048	DECAL LANDOLL BLACK	*3,2
	3-573-010049	DECAL LANDOLL WHITE	*3,2
8	3-573-010085	DECAL CAUTION CONC. LOAD 70000 LBS.	2
	118801	DECAL CAUTION 30K/16FT CONC. LOAD	2
	118805	DECAL CAUTION 40K/16FT CONC. LOAD	2
	3-573-010349	DECAL CAUTION 50K/10FT CONC. LOAD	2
9	3-573-010189	DECAL TIRE CHANGING PROCEDURE	1
10	3-573-010377	DECAL 2" REFLEXITE TAPE RD/WHT	AR
11	1-573-010476	DECAL, BOW-TIE BLACK	2
	1-573-010480	DECAL, BOW-TIE WHITE	2
12	105822	DECAL, HYD COUPLER	1
13	103056	DECAL ENERGY BUMPER WARNING	1
14	121559	PLACARD, CONTROLS	1
15	103055	DECAL ENERGY CERT.	1
16	3-573-010202	PLACARD DANGER! DOCK LEVELER OPERATION	1
17	3-573-010031	DECAL BUMPER	1
18	3-573-010299	DECAL, WARNING WINCH CABLE	1
19	3-573-010350	DECAL GOTCHA PULL	2
20	3-573-010210	DECAL TORQUE SPEC 8-10 STUD HUB	1
21	1-573-010477	DECAL, LANDOLL BLACK (425/435 MODELS)	1
	1-573-010481	DECAL, LANDOLL WHITE (425/435 MODELS)	1

NOTE: IF TRAILER IS REPAINTED OR IF DECALS BECOME ILLEGIBLE, ORDER NEW ONES FROM THE FACTORY AND REPLACE.

* 1ST QUANTITY USED ON 410 MODELS; 2ND QUANTITY USED ON 425 & 435 MODELS W/ ITEM 21

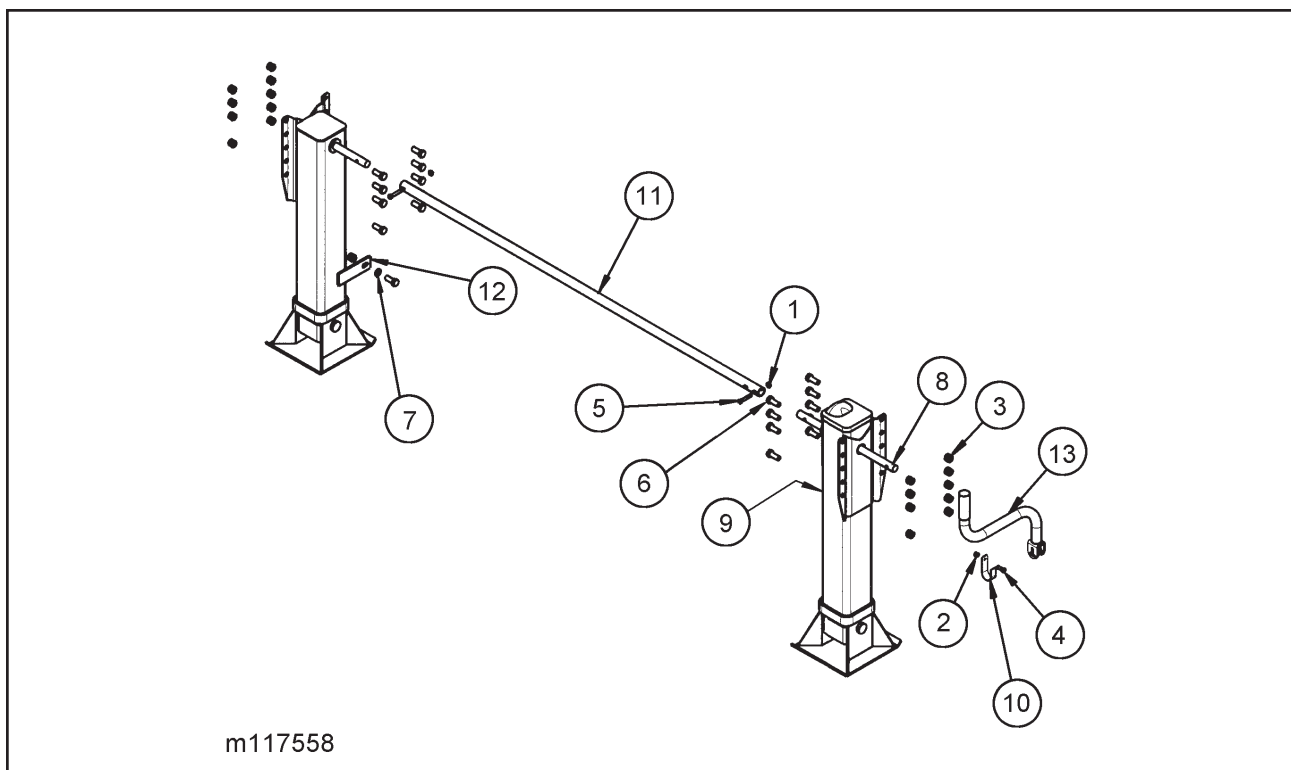


Figure 1-60 Landing Gear Installation

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 1-111)	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

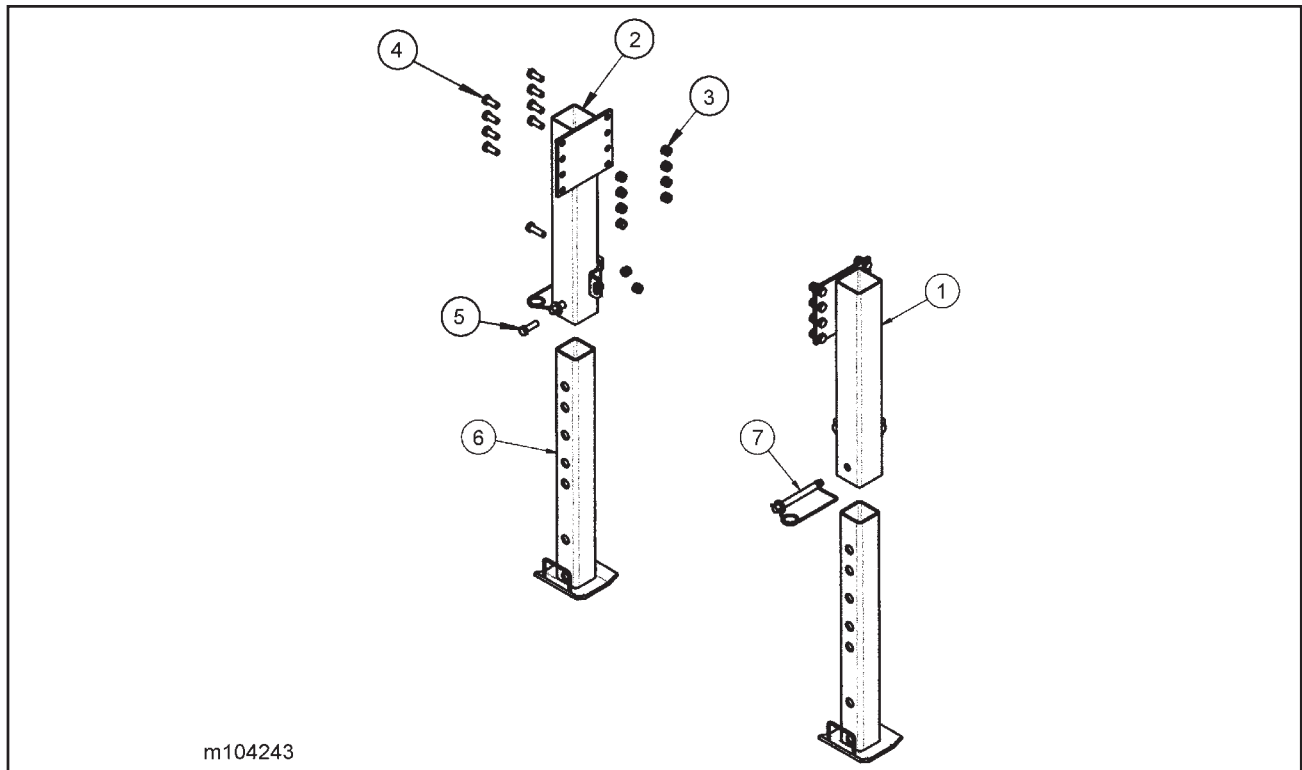


Figure 1-61 Landing Gear Installation - Bolt-on

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

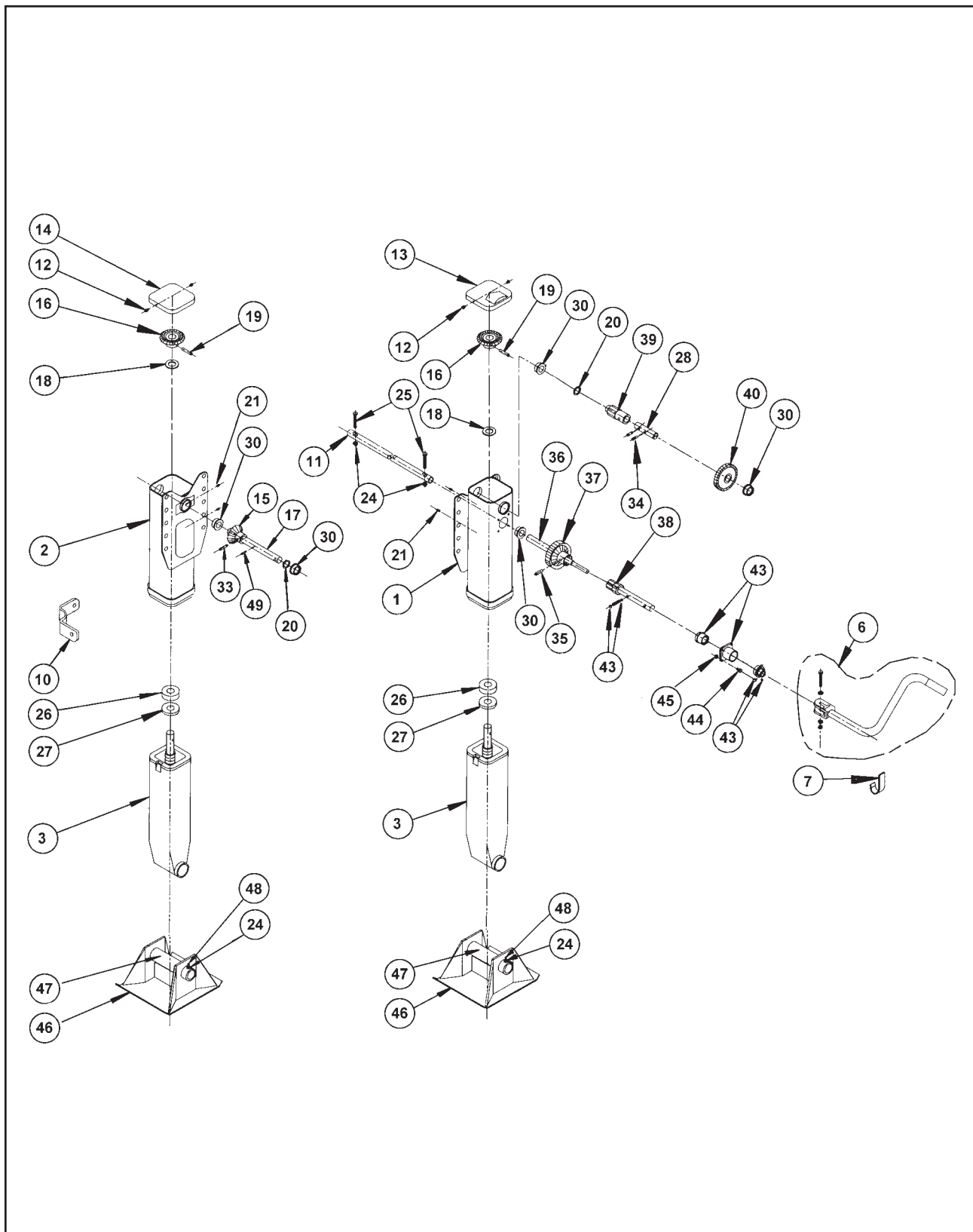
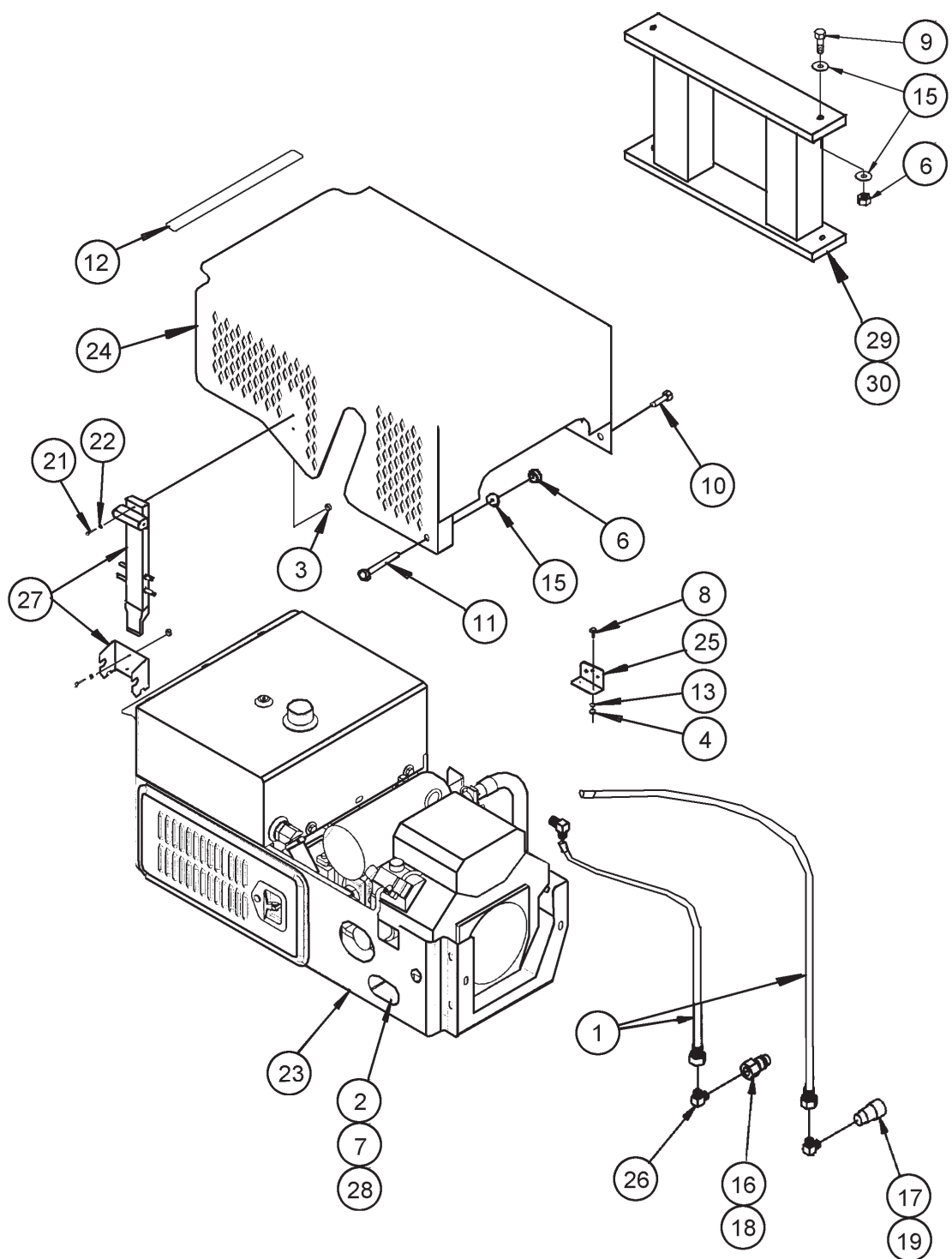


Figure 1-62 Crank Landing Gear

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



m123166

Figure 1-63 Upper Deck Engine Installation

UPPER DECK ENGINE INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENGINE PACKAGE 25 HP U/D	
1	1-397-010304060	HOSE ASSEMBLY 3/4 X 60	2
2	1-397-010312032	HOSE ASSEMBLY 3/8 X 32	1
3	1-512-010004-03	NUT, HEX LOCK 10-24	8
4	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
7	1-560-010002-03	PLUG, PIPE 3/8	1
8	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
9	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 x 1-3/4 GR5	2
10	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
11	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	1
12	1-822-010002	TRIM LOK 3/16	6
13	1-861-010032-07	WASHER, FLAT 1/4	2
15	1-861-010032-15	WASHER, FLAT 1/2W	24
16	105479	COUPLER, FLAT FACE MALE NOSE	1
17	105480	COUPLER, FLAT FACE FEMALE BODY	1
18	105481	COUPLER DUST CAP MALE	1
19	105482	COUPLER DUST CAP FEMALE	1
21	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
22	110-0253	WASHER, FLAT 3/16	8
23	115601	ENGINE PACKAGE, 25 HP GAS (SEE PAGE 1-116)	1
24	121396	COVER WELDMENT U/D ENG PACKAGE	1
25	123167	BRACKET CONTROLS ENG PACKAGE	1
26	2062-12-12S	ADAPTER 90	3
27	3-443-010018	LATCH, FLEX DRAW, LEVER ASSIST	2
28	3/8P COUPL	BLACK PIPE COUPLING	1
29	120479	MOUNT WELDMENT	1
30	124556	MOUNT WELDMENT, NARROW	1

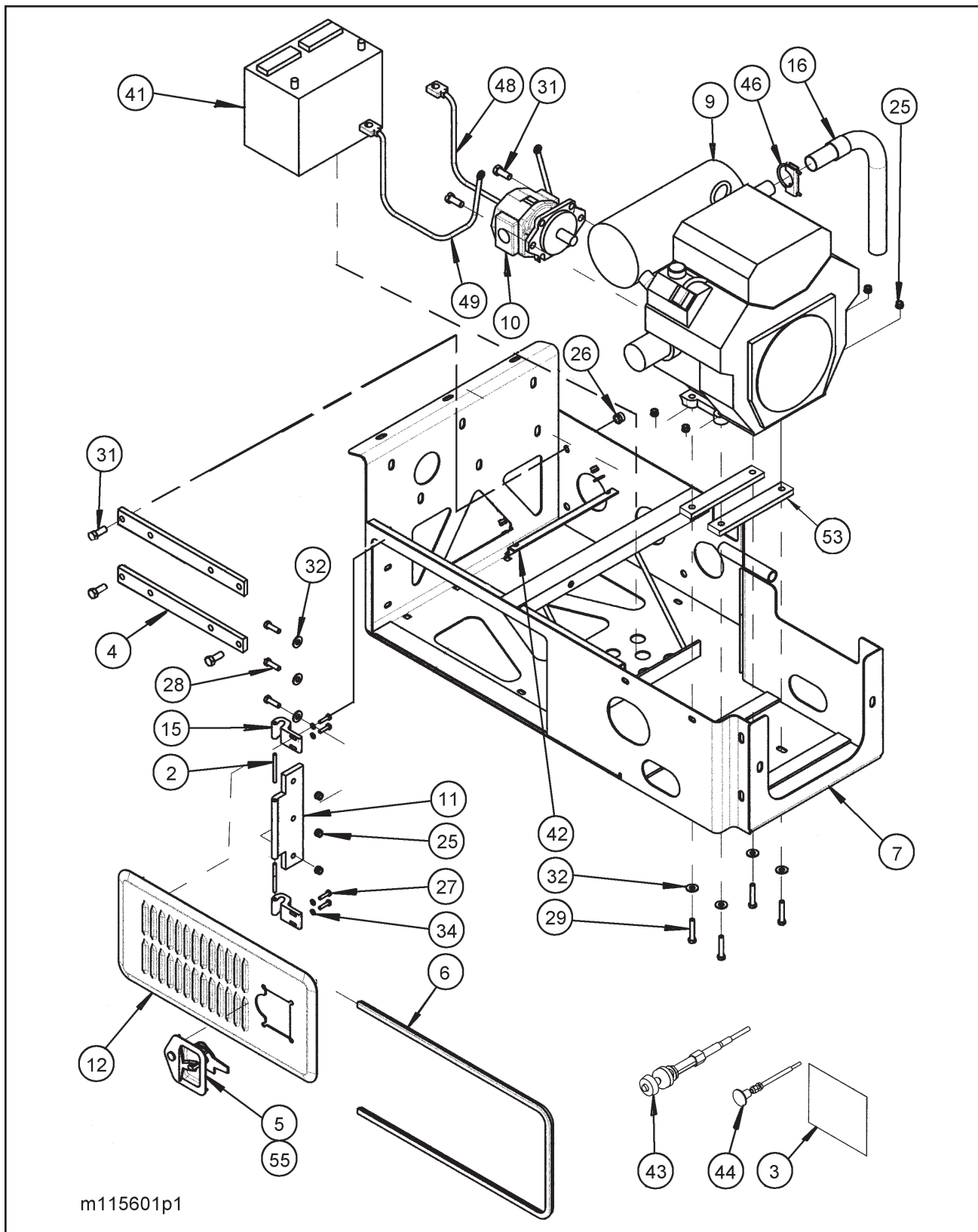
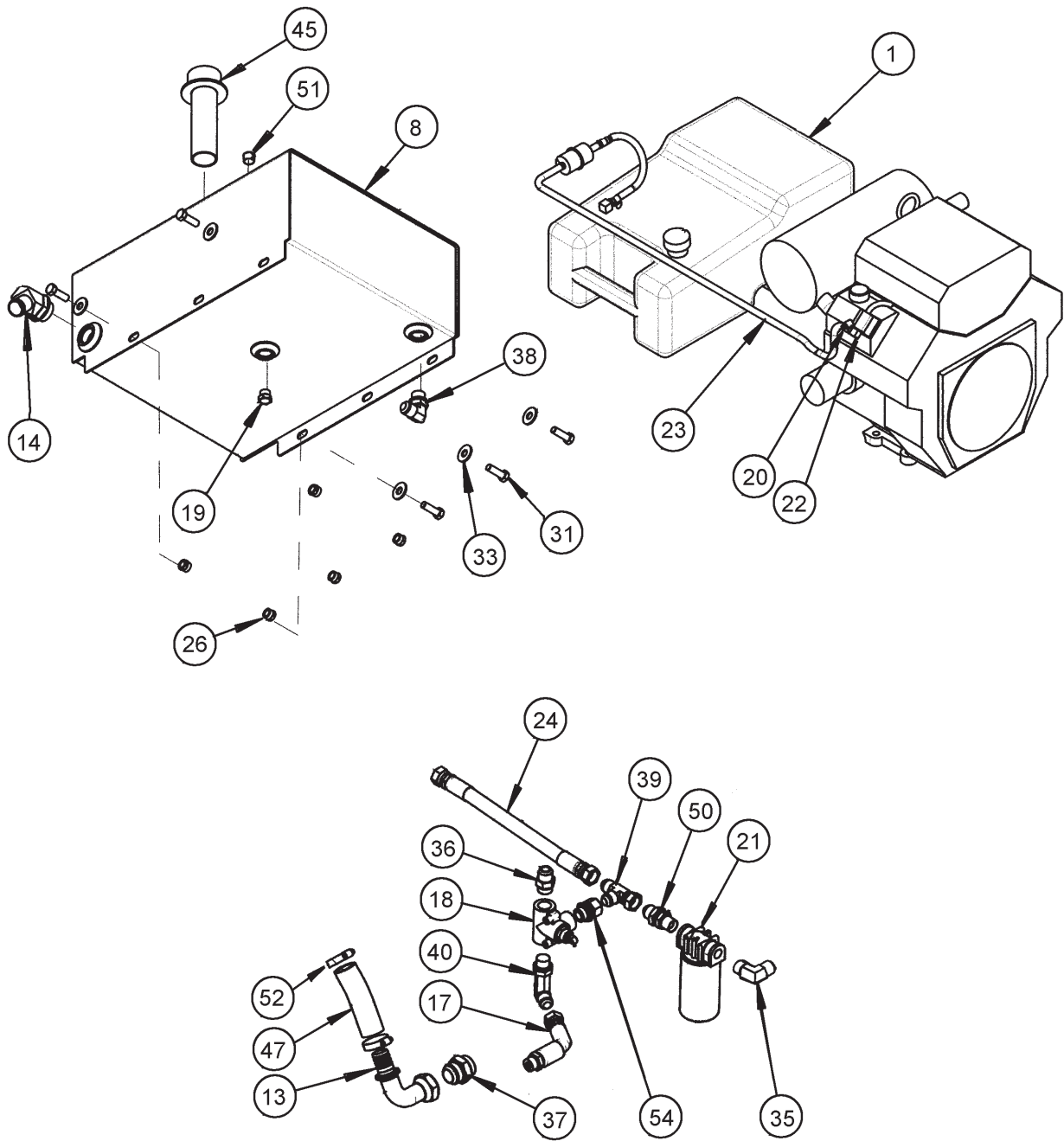


Figure 1-64 Hydraulic Engine, Standard Mount (1 of 2)



STANDARD PLUMBING
ASSEMBLY

m115601p2

Figure 1-65 Hydraulic Engine, Standard Mount (2 of 2)

25HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	25 HP GAS ENGINE PACKAGE	
1	104699	TANK, FUEL PLASTIC	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENG PKG INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	1
7	120654	MOUNT WELDMENT, ENG PKG 25 HP	1
8	120662	HYD TANK WELDMENT	1
9	115586	ENGINE KOHLER 25 HP PUMP MOUNT	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING, 45	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	120661	VALVE, HYDR PRESSURE RELIEF	1
19	900598-12S	PLUG, O-RING	1
20	105-0105	CLAMP, HOSE	2
21	1-295-010001	RETURN LINE FILTER	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	1
24	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	9
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	4
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 3/8W	9
33	1-861-010032-15	WASHER, FLAT 1/2W	5
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2024-12-12S	ELBOW, 90	2
36	202702-12-12S	ADAPTER, STRAIGHT	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	1
39	203102-12-12S	ADAPTER, TEE	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-BREATH-ER-STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1
47	3-399-010001	HOSE, 1-1/4 SUCTION	1

25HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	1-560-010002-04	PLUG, PIPE 1/2	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120659	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	1-560-010002-07	PLUG, PIPE (NOT SHOWN)	1
58	113544	HARNESS, ENG PKG IGNITION (NOT SHOWN)	1
59	123014	PLATE, MOTOR FRONT 25HP (NOT SHOWN)	1

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

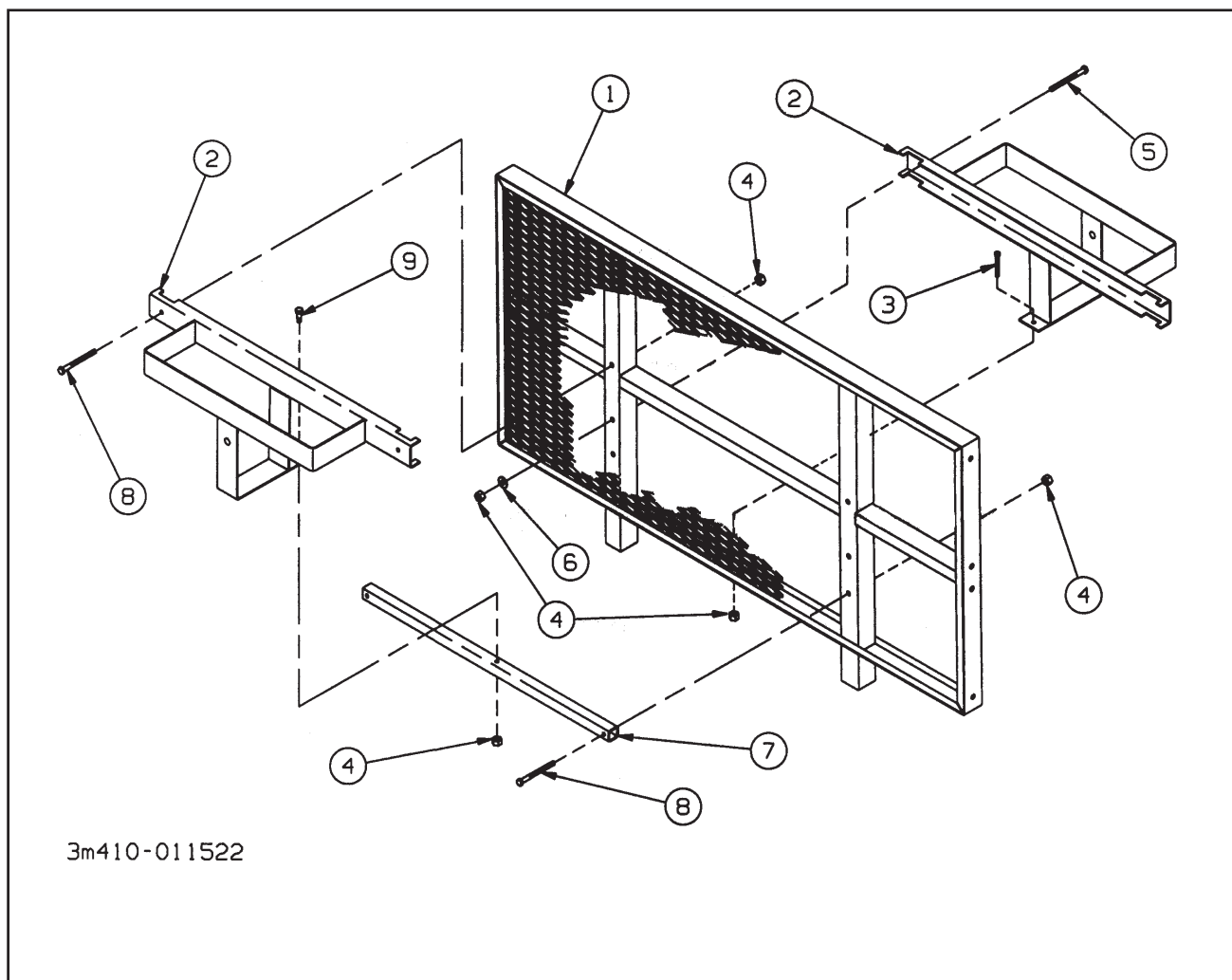


Figure 1-66 Spare Tire Carrier (Option)

SPARE TIRE CARRIER (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-612-010015-1	RACK INSTALLATION BHD, FRONT MOUNT (ITEMS 2-6)	
	3-612-010015-2	RACK INSTALLATION BHD, REAR MOUNT (ITEMS 2,4,7-9)	
1	----	BULKHEAD WELDMENT	REF
2	3-612-010016	RACK WELDMENT BULKHEAD MOUNT	1
3	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13X1 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 1/2-13X5 GR5	2
6	1-861-010032-15	WASHER FLAT 1/2W	2
7	3-829-010337	TUBE W/ TAB MOUNTED BULKHEAD SPARE RACK	1
8	1-654-010055-18	SCREW HEX HEAD CAP 1/2-13X6-1/2 GR5	4
9	1-654-010055-09	SCREW HEX HEAD CAP 1/2-13X3 GR5	1

* 1ST QUANTITY IS FOR P/N 3-612-010015-1; 2ND QUANTITY IS FOR P/N 3-612-010015-2.

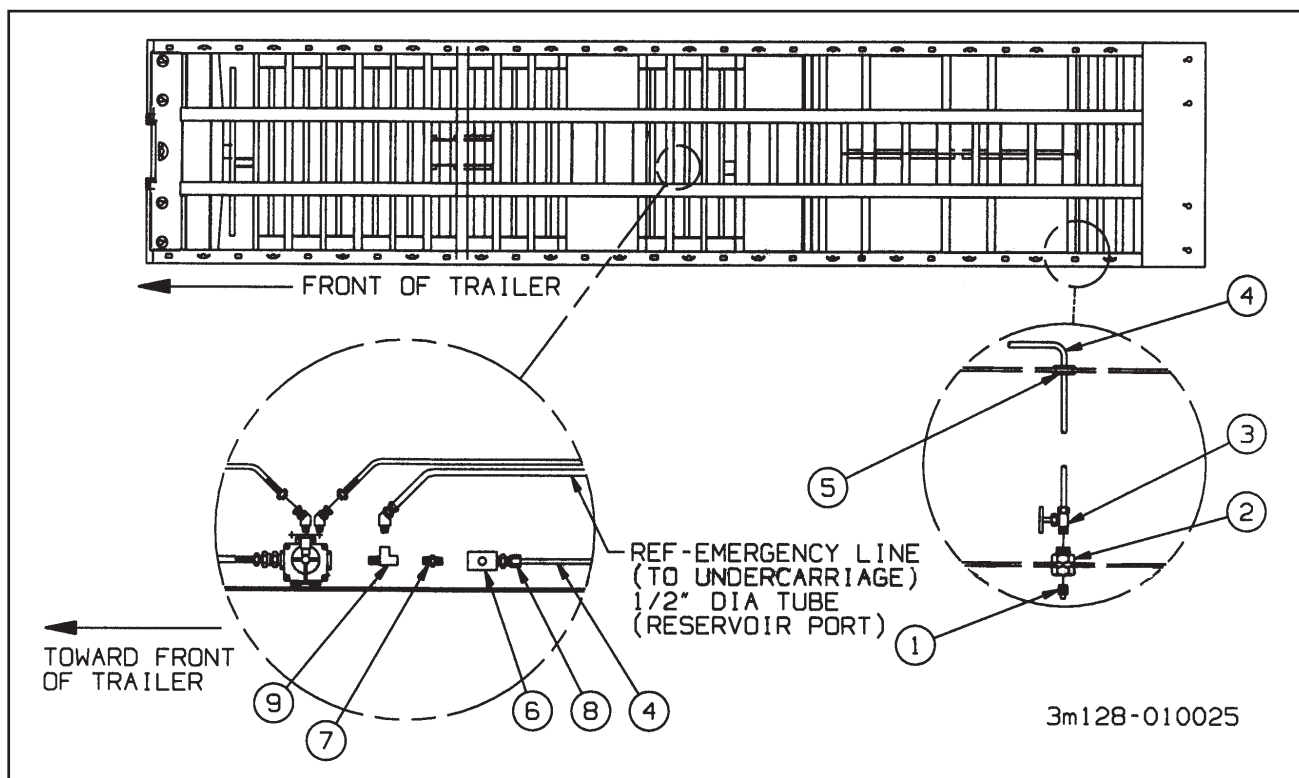


Figure 1-67 Air Outlet Accessory (Option)

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 BR TEE	1

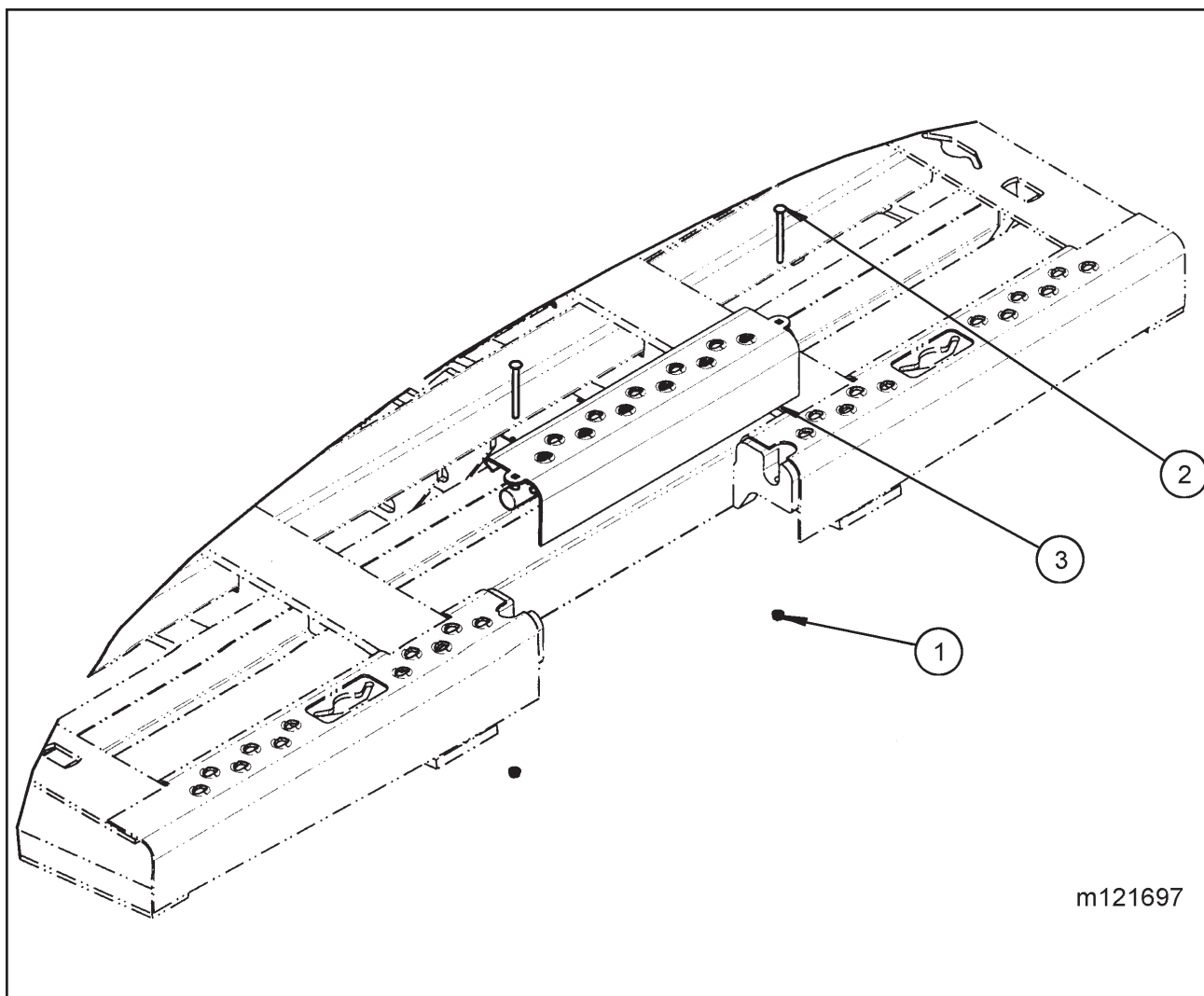


Figure 1-68 Center Rub Plate Cover Installation (Option)

CENTER RUB PLATE COVER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	121697	COVER INSTALLATION CENTER RUB PLATE	
1	1-510-010001	NUT, FLANGE HEAD SERR 3/8-16	2
2	112013	SCREW, RD HEAD SQ NECK 3/8-16 X 4-1/2	2
3	122938	COVER WELDMENT CENTER RUB PLATE	1

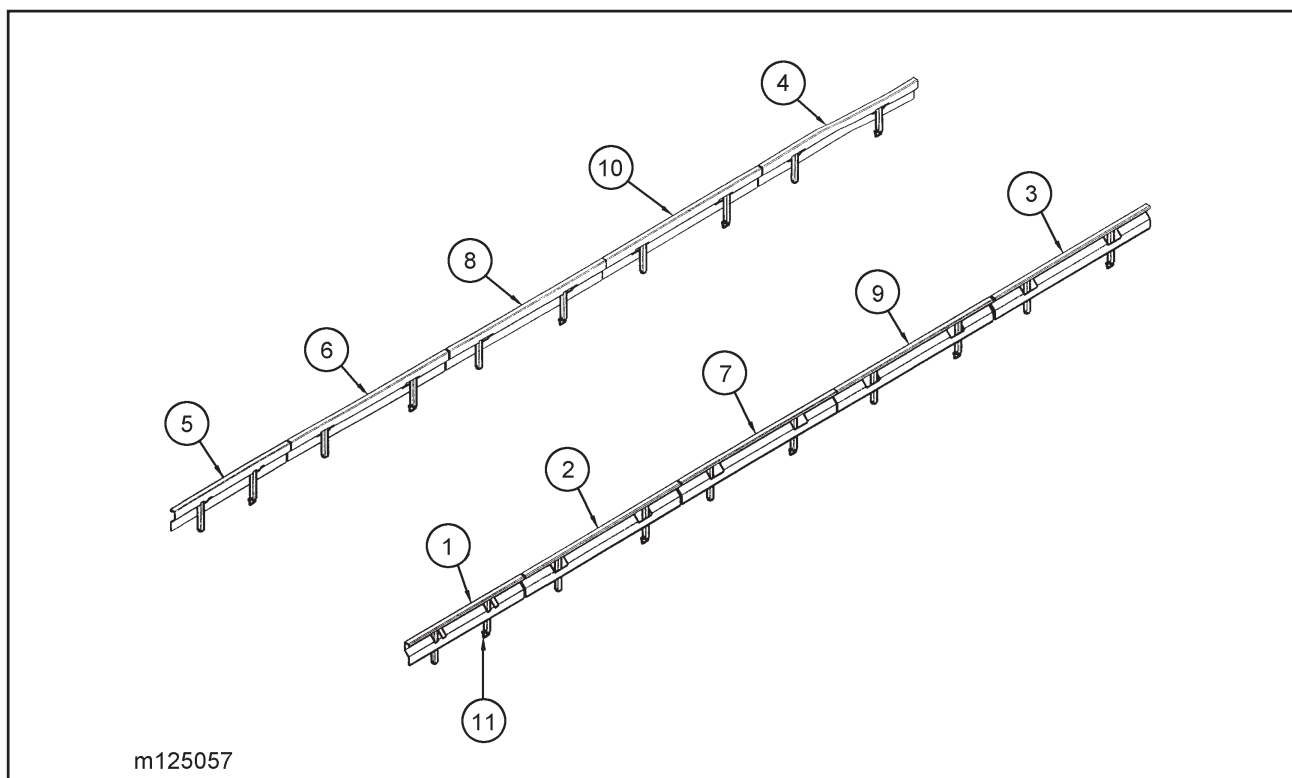


Figure 1-69 8" Metal Sideboard Installation (Option) (425)

SIDEBOARD INSTALLATION, 8" METAL (OPTION) (425)

ITEM	PART NO.	DESCRIPTION	QTY.
	125057	SIDEBOARD INSTALLATION, 8" METAL	
1	124901	SIDEBOARD WELDMENT NO. 1 LH	1
2	124902	SIDEBOARD WELDMENT NO. 2 LH	1
3	124903	SIDEBOARD WELDMENT NO. 5 LH	1
4	124904	SIDEBOARD WELDMENT NO. 5 RH	1
5	124908	SIDEBOARD WELDMENT NO. 1 RH	1
6	124909	SIDEBOARD WELDMENT NO. 2 RH	1
7	124910	SIDEBOARD WELDMENT NO. 3 LH	1
8	124911	SIDEBOARD WELDMENT NO. 3 RH	1
9	124912	SIDEBOARD WELDMENT NO. 4 LH	1
10	124913	SIDEBOARD WELDMENT NO. 4 RH	1
11	516-22PTL	PIN, MUD FLAP	10

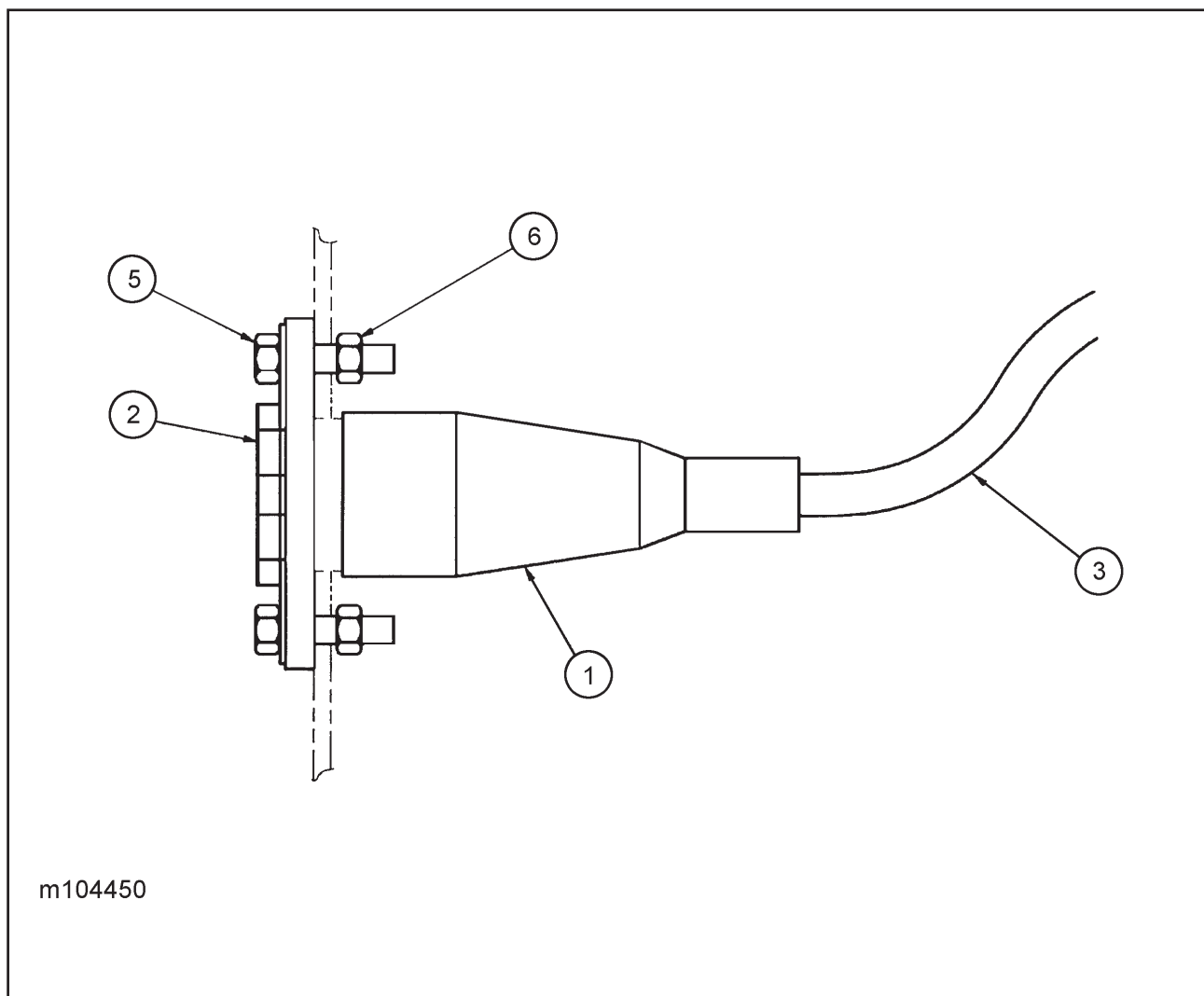


Figure 1-70 Rear Electrical Installation - 7 Way (Option)

REAR ELECTRICAL INSTALLATION - 7 WAY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	104451	ELECTRICAL INSTALLATION, 7 WAY REAR W/ ABS	
1	59W-2-3	RUBBER BOOT	1
2	59S-7	RECEPTACLE, 7 PIN	1
3	104449	HARNESS, EXTRA 7 WAY REAR	1
4	104448	DECAL, CAUTION 7 WAY RECP (NOT SHOWN)	1
5	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
6	1-512-010005-03	NUT, HEX LOCK 5/16-18	2

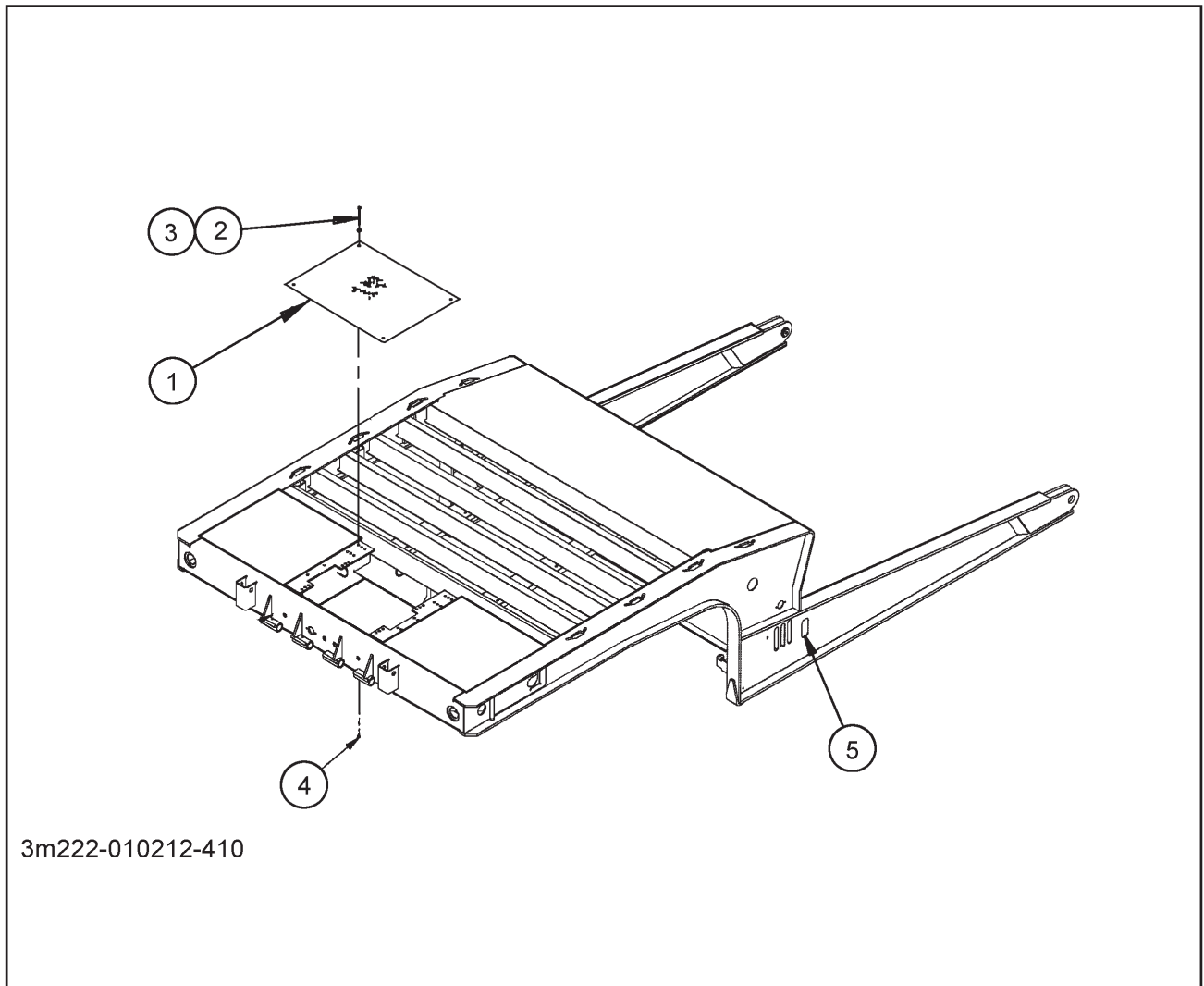


Figure 1-71 Upper Deck Cover Installation (Option)

UPPER DECK COVER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-222-010212	COVER INSTALLATION, UPPER DECK	
1	3-222-010211	COVER, UPPER DECK WINCH	1
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	4
4	1-512-010005-09	NUT, HEX LOCK 1/2-13	4
5	1-007-010025	ADAPTER	2

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005-098-00	039	097-003-00	039	102363	033
005-099-00	039	1000	084	102363	041
005-134-00	039	100140	103	102698	031
006-114-00	039	100276	103	102728	027
006-115-00	039	100279	103	102732	035
007-237-00	039	100290	095	102732	037
010-052-00	039	100348	103	102836	027
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0101013	104	100402	049	102836	033
0101112	104	1004-3	063	103055	107
01-1006	103	1004-6	063	103056	107
014-056-00	039	1005013	104	103082	033
014-057-00	039	100600	053	103082	035
014-058-00	039	100600	055	103084	031
014-068-00	039	1-007-010006	023	103084	035
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034-057-07	039	1008008	104	103861	045
034-058-07	039	100823	003	10403	027
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034-189-03	039	100949	044	104243	109
040-320-01	039	100949	047	104253	007
041-057-01	039	10-1001	103	104253	009
041-060-01	039	101129-1	103	104330	099
046-092-00	039	101160	049	104448	122
046-097-00	039	1014-4	063	104449	122
05-1009	103	101848	045	104451	122
055-040-07	039	101851	045	1046	063
056-010-00	039	101852	044	10466	069
056-017-00	039	101855	045	10466	074
056-018-00	039	1019-4	063	104699	116
0600-250-01000	007	102-0031	099	105-0093	003
061-006-00	039	10205R	027	105-0105	116
062300414	020	10205Y	027	10529	083
069-018-00	039	1021	063	105479	011
069-020-00	039	102-1097	099	105479	023
069-078-00	039	102186	053	105479	113
07-1061	103	102186	055	105480	011
071-124-00 (3067)	049	102187	052	105480	023
07-1201	103	102188	052	105480	113
072300150	020	102188	055	105481	011

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10708	073	111093	083	113544	117
107368	052	111094	081	113661	091
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107369	053	111095	081	113661	097
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110-0253	113	111641	066	11434	060
11011	057	111722	091	11435	061

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11440	060	1167	083	118805	107
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128137	005	1-297-010008-18	044	1-298-010001-1	031
128138	005	1-297-010008-23	044	13005	057
128152	005	1-297-010008-24	044	13028	058
128153	005	1-297-010008-26	044	13028	061
12817	058	1-297-010010-01	035	13034	083
128226	009	1-297-010010-03	035	13035	083

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13164	084	13386	085	1-397-010301039	011
1317	069	133938	77	1-397-010301048	011
1317	074	133939	77	1-397-010301064	011
132103	77	133940	77	1-397-010301100	023
132104	77	133941	77	1-397-010301136	011
132105	77	13400	084	1-397-010301160	011
132106	77	13403	084	1-397-010301170	052
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13288	069	13599	084	1-397-010304018	116
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13288	073	13602	083	1-397-010305190	011
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13288	074	13605	084	1-397-010307356	099
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13295	069	13675	069	1401	084
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13297	069	1376	068	14181	085
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13306	069	1-384-010038060	044	1504	074
13306	074	1-384-010038076	044	1505	074
13317	068	1-384-010038084	044	1506	069
13317	073	1388	068	1-510-0100001	055
13370	084	1388	073	1-510-010001	003
13372	084	13894	083	1-510-010001	011
13372	084	13938	060	1-510-010001	027
13373	084	1-394-010001	044	1-510-010001	031
13379	084	1395	069	1-510-010001	033

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15-1021	103	1-512-010005-09	113	1-573-010480	005
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1-512-010005-01	003	1-512-010005-15	066	1-630-010021-02	003
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3-573-010349	107	3-765-010001	095	3-873-010122	055
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3-573-010391	095	3-786-010043	023	3-873-010123	060
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3-573-010393	095	3-793-010041	087	3-873-010124	055
3-573-010394	095	38-01-075	031	3-873-010140	052
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3-642-010150	052	3-843-010015	093	391-2585-006	021
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60215Y	027	76344	085	905-54-107	080
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6029521	104	78403	077	905-54-107	091
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63680	049	805-2	044	930 03 597	041
6400000	104	81006	057	93201057	041
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936 00 077	041	9880	068	C10140.3	111
9400	068	9880	073	C10155	111
9400	073	9890	068	C10177	111
9406	068	9890	069	C10209	111
9406	073	9890	073	C10217	111
941 00 119	037	9890	074	C10233	111
941 00 466	037	9897	084	C10234	111
94100590	041	9897	084	C10256	111
94100648	041	9897	085	C10259	111
94100685	041	9929	083	C2001	062
94100787	041	9992	069	C3069X12	023
94100790	041	9992	069	CO-975-74-2000	007
94926	027	9992	074	D10116.3	111
9600	083	9992	074	D10201.3	111
9602	068	A001	093	D-2H12	039
9602	073	A001	097	DB-10	095
9612	083	A10033	111	E001	097
9637	083	A10037.1	111	E001	097
9672	069	A10037.3	111	E002	097
9672	074	A10038.6	111	E007	097
9672	084	A10038.7	111	E007	097
9695	069	A10040	111	F-100852	053
9695	069	A10052.3	111	H015	097
9695	074	A10054.3	111	H018	097
9695	074	A10054.6	111	H038	097
9704	069	A10054.7	111	H039	097
9704	074	A10059.1	111	H046	097
9704	084	A10101	111	H048	097
9709	083	A10102	111	H068	097
9711	083	A10212	111	HM212011	049
9739	085	A10218	111	HM212049	049
9817	068	A10230	111	HM218210	049
9817	073	A10255	111	HM218248	049
9821	083	A10260.1	111	K71-101-00	039
9843	083	A6760S	119	K71-133-00	039
9844	068	AA-1807	075	K71-460-00	039
9844	073	AY102	097	LB004	097
9846	083	AY103	097	LB005	097
9851	068	AY109	097	M110AB-4	063
9851	073	B10036	111	M110C-1	063
9851	083	B10066	111	NB-2-016	090
9852	068	B10130	111	NB-2-016	091
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