Model 410/425/435B Series
Semitrailer
Parts Manual

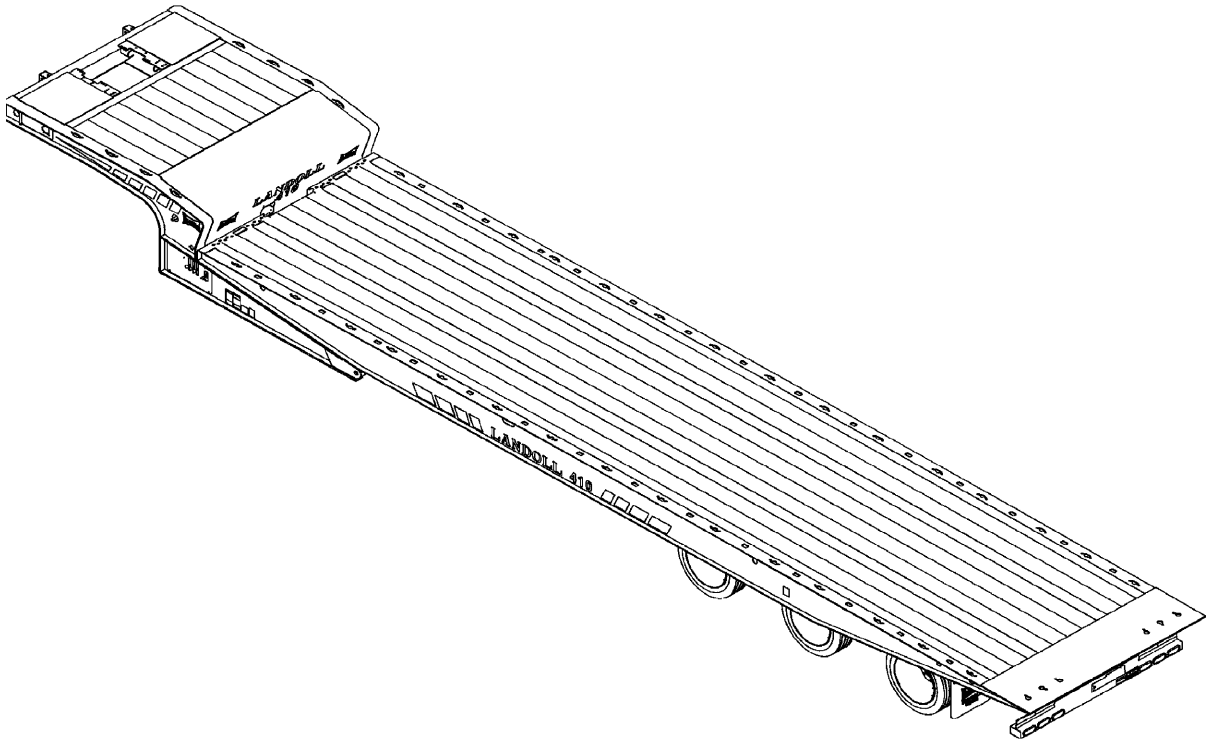

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Table of Contents

1 Instructions for Ordering Parts

2 Illustrated Parts List

GENERAL ASSEMBLY 2-1
UPPER DECK ASSEMBLY 2-4
BULKHEAD ASSEMBLY (OPTION) 2-7
PULLOUT INSTALLATION (OPTION) 2-10
OUTRIGGER INSTALLATION (OPTION) 2-13
SCHEMATIC, HYDRAULIC SYSTEM 2-15
THREE SPOOL VALVE ASSEMBLY 2-17
THREE SPOOL VALVE 2-19
U/C CYLINDER ASSEMBLY 2-21
CYLINDER, HYDRAULIC 4 X 100 PORTED ROD (STREETSIDE) (410-48/50CA, 425-41/45, 435-41) 2-22
CYLINDER, HYDRAULIC 4 X 100 (CURBSIDE) (425-41, 435-41) 2-23
CYLINDER, HYDRAULIC 4 X 126 PORTED ROD (STREETSIDE) (410-50/53/55HD, 435-48/50CA) 2-24
CYLINDER, HYDRAULIC 4 X 126 (CURBSIDE) (410-50/53/55HD, 410-48/50CA, 425-45, 435-48) 2-25
CYLINDER, HYDRAULIC 4 X 138 PORTED ROD (STREETSIDE) (435-53) 2-26
CYLINDER, HYDRAULIC 4 X 138 (CURBSIDE) (435-50CA/53) 2-27
CYLINDER 4-1/2 X 30 (425) 2-28
CYLINDER 6" X 41" (435 & 410) 2-29
30 GALLON HYDRAULIC WET KIT (OPTION) 2-31
ELECTRICAL SYSTEM 2-33

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (410) 2-37
GREASE HOSE LOCATION, P/N, AND LENGTH 2-39
UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (425 & 435) 2-44
GREASE HOSE LOCATION, P/N, AND LENGTH (425/435) 2-45
GREASE HOSE LOCATION, P/N, AND LENGTH (425/435-CA) 2-45
AIR RIDE SUSPENSION AIR SYSTEM (TANDEM) 2-48
AIR RIDE SUSPENSION AIR SYSTEM (TRIPLE) 2-50
AIR CONTROL KIT 2-52
SUSPENSION HANGER RLU-228 2-54
AXLE AND BRAKE ITEMS (DEXTER) (12-1/4" X 7-1/2") 2-56
SPRING AIR BRAKE SYSTEM W/ ABS 2-59
ABS BRAKE KIT 2-60
AIR SYSTEM, ABS 2-62
OUTBOARD PILOT MOUNT HUB AND DRUM 2-64
WINCH INSTALLATION (BRADEN) 2-66
WINCH INSTALLATION (BRADEN) 2-71
WINCH INSTALLATION, SPRING TENSION CABLE ROLLER 2-74
12,000# WINCH ITEMS (BRADEN) 2-76
20,000# WINCH ITEMS (BRADEN) 2-79
WINCH AIR SHIFT CYLINDER 2-82
WINCH MOTOR ASSEMBLY 2-84
30K UPPER DECK WINCH INSTALLATION (DP) 2-88
30,000# WINCH ITEMS (DP) 2-90
WINCH INSTALLATION 30K DP SPG TENSION A/R 2-94
30,000# WINCH ITEMS (DP) 2-96
WINCH ROLLER GUIDE - 30K 2-100
WINCH, CABLE AIR TENSION 2-102
12K, 15K, & 20K UPPER DECK WINCH (DP) 2-105
12K, 15K, & 20K WINCH ITEMS (DP PLANETARY) 2-108
UPPER DECK COVER ASSEMBLY (OPTION) 2-111
TIE DOWN INSTALLATION (OPTION) 2-112
DOCK LEVELER HYDRAULIC INSTALLATION 2-114
DOCK LEVELER ASSEMBLY, SINGLE 60K 2-116
DOCK LEVELER ASSEMBLY, 120K 2-118
LEG ITEMS, DOCK LEVELER W/ LOCK VALVE 2-121
DOCK LEVELER VALVE 2-124
DOCK LEVELER VALVE (After 01/15/2014) 2-126

DECAL INSTALLATION 2-129
LANDING GEAR INSTALLATION 2-131
LANDING GEAR INSTALLATION BOLT - ON 2-132
HYDRAULIC PARK STAND INSTALLATION 2-134
HYDRAULIC CYLINDER 3-1/2 X 20 2-136
CRANK LANDING GEAR 2-138
27 HP GAS ENGINE PACKAGE, UPPER DECK (OPTION) 2-143
UPPER DECK ENGINE STAND INSTALLATION 2-145
FRONT MOUNT ENGINE INSTALLATION 2-146
SPARE TIRE CARRIER (OPTION) 2-147
AIR OUTLET ASSEMBLY (OPTION) 2-148
CENTER RUB PLATE COVER INSTALLATION (OPTION) 2-149
SIDEBOARD INSTALLATION, 8” METAL (OPTION)(425) 2-150
SPECIAL BULKHEAD INSTALLATION (OPTION) 2-151
UPPER DECK COVER INSTALLATION (OPTION) 2-152
HYDRAULIC CONVERSION KIT, BALL TO FLAT (OPTION) 2-153
UPPER DECK EXTENSION BRIDGE STORAGE RACK (OPTION) 2-154
SPARE TIRE MOUNT ASSEMBLY 2-155
UPPER DECK ROLLER INSTALLATION (OPTION) 2-156
CHAIN TRAY ASSEMBLY (OPTION) 2-157
FRONT FLIP EXTENSION (OPTION) 2-158
SINGLE VALVE INSTALLATION (OPTION) 2-160
REAR STROBE LIGHT INSTALLATION (OPTION) 2-162
BATTERY BACKUP STROBE LIGHT INSTALLATION (OPTION) 2-164
BACKUP ALARM/LIGHT INSTALLATION (OPTION) 2-166
STROBE AND TURN LIGHT INSTALLATION FOR BULKHEAD (OPTION) 2-168
AIR DIGITAL SCALE (OPTION) 2-169

3 Numerical Index

Chapter 1

Instructions for Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

**** Repair parts must be ordered through an Authorized Dealer ****

PHONE NO.: 1-800-423-4320 OR 1-800-428-5655 OR 1-785-562-5381 FAX NO.: 888-527-3909
ORDER ONLINE: companystore.landoll.com

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the left side of the hitch (See Figure 1-1.)

SERIAL NUMBER NOMENCLATURE

The serial number for the 410/425/435B semitrailer is located on the identification plate.The serial number is the last five digits of the VIN number. The 4th, 5th, and 6th digits in the VIN number are the model number of the trailer.

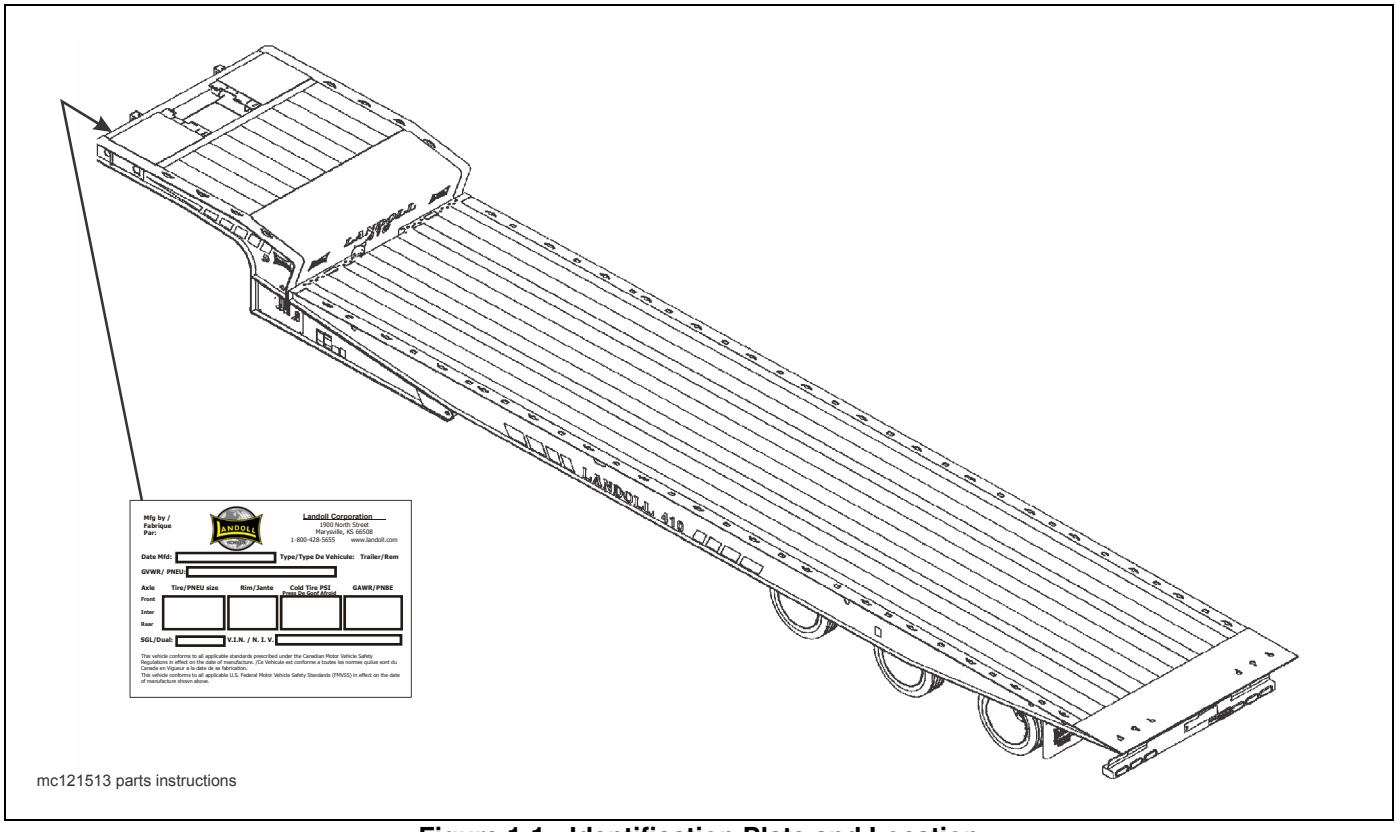

Figure 1-1: Identification Plate and Location

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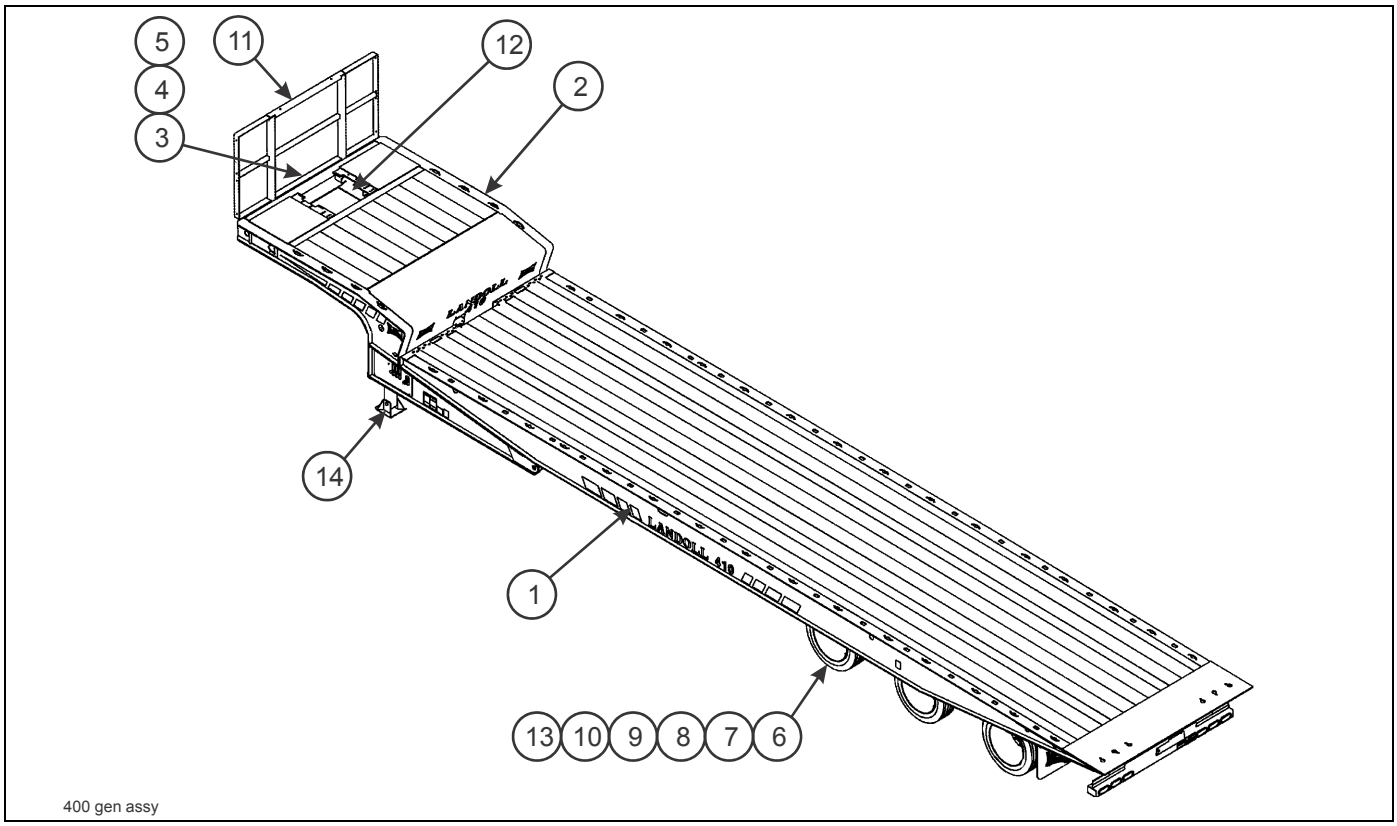
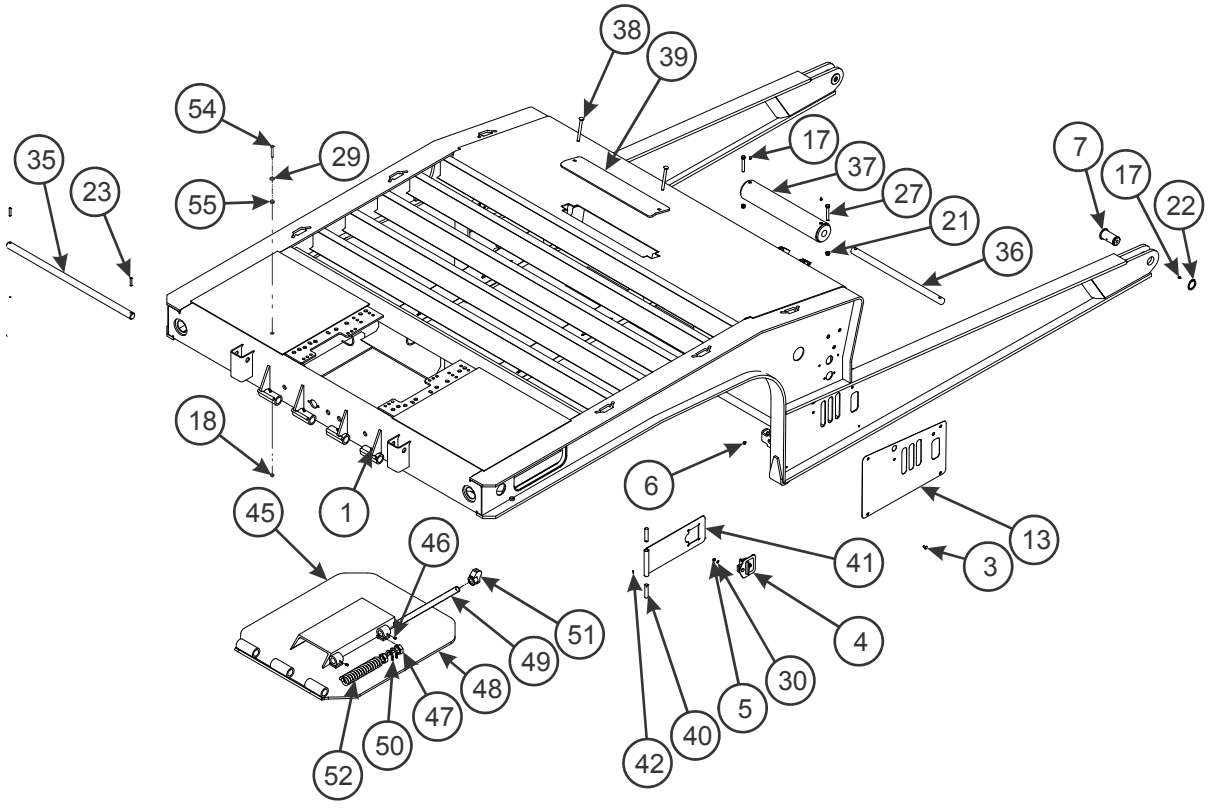
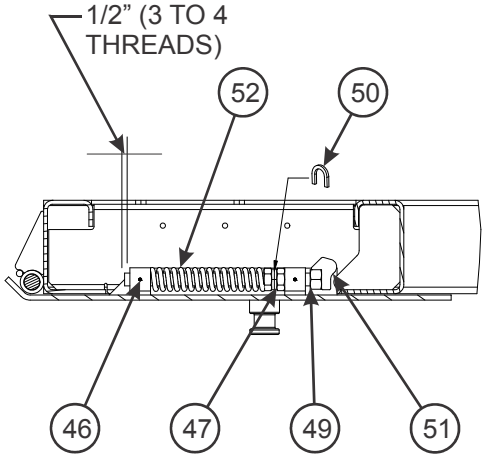


Figure 2-1: General Assembly

GENERAL ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
1	-----	LOWER DECK	
2	2-2 - 2-4	UPPER DECK ASSEMBLY	
3	2-6 - 2-13	BULKHEAD/PULLOUT/OUTRIGGER ASSEMBLIES (OPTION)	
4	2-14 - 2-31	HYDRAULIC SYSTEM	
5	2-32 - 2-33	ELECTRICAL SYSTEM	
6	2-34 - 2-52	UNDERCARRIAGE ASSEMBLY - AIR RIDE SUSPENSION	
7	2-53 - 2-54	SUSPENSION HANGER RLU-250	
8	2-55 - 2-56	AXLE AND BRAKE	
9	2-57 - 2-60	AIR BRAKE SYSTEMS	
10	2-61 - 2-62	AIR SYSTEM	
11	2-63 - 2-64	HUB AND DRUM ASSEMBLY	
12	2-65 - 2-108	WINCH ASSEMBLIES	
13	2-113 - 2-124	DOCK LEVELER ASSEMBLIES (OPTION)	
14	2-128 - 2-129	DECAL INSTALLATION	
15	2-131 - 2-138	LANDING GEAR ASSEMBLIES (OPTION)	
16	2-139 - 2-146	HYDRAULIC ENGINE ASSEMBLY (NOT SHOWN) (OPTION)	
17	2-111 - 2-112; 2-147 - 2-169	MISCELLANEOUS OPTIONS (NOT SHOWN)	





FIFTH WHEEL LOCK SETUP

m130552 p1

Figure 2-2: Upper Deck Assembly (1 of 2)

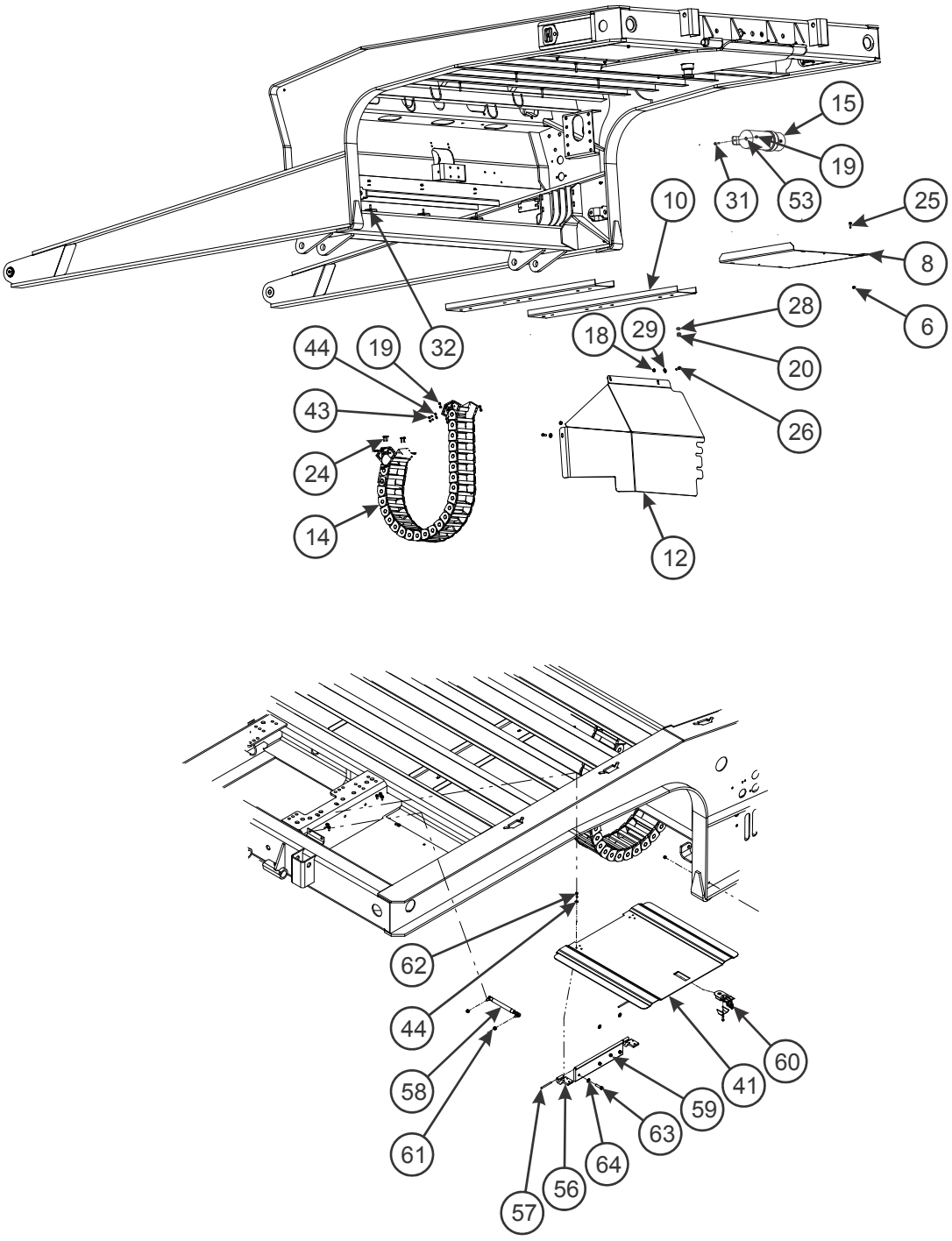


Figure 2-3: Upper Deck Assembly (2 of 2)

UPPER DECK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	130552	G/N FRAME ASSEMBLY 410/435	
1	5210	ZERK FITTING 1/4-28 X 45	4
3	105909	SCREW, RD HEAD SQ NECK 5/16-18 X 3/4	4
4	114814	LATCH FOLDING T LOCKABLE	2
5	115877	NUT, HEAVY HEX 1/4-20	8
	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	8
7	116943	PIN WELDMENT PIVOT	2
8	117544	PLATE, TOOLBOX BOTTOM	2
	137963	PLATE, TOOLBOX BOTTOM (410-120)	2
10	117565	COVER, HOSE LOWER	3
12	121125	SHIELD, HYD CONTROLS	1
13	139520	PLACARD, CONTROL PANEL (SEE PAGE 2-130)	REF
14	122380	E-CHAIN G/N FRAME	1
	135778	E-CHAIN INDIVIDUAL LINK	1
	135779	E-CHAIN MOUNTING BRACKET	1
15	130511	TUBE ASSEMBLY, MANUAL STORAGE	1
16	-----	GOOSENECK WELDMENT	1
17	1-298-010001-1	ZERK FITTING 1/4	4
18	1-510-010001	NUT, FLANGE LOCK 3/8-16	3
19	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	8
20	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	21
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
22	1-630-010021-02	RING, RETAINING 2 HD	2
23	1-647-010004255	PIN, SPRING SLOTTED 3/8 X 2	2
24	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
25	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	8
26	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
27	1-654-010055-11	SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5	2
28	1-861-010032-08	WASHER, FLAT 5/16N	9
29	1-861-010032-11	WASHER, FLAT 3/8W	3
30	1-861-010034-09	WASHER, SPLIT LOCK 1/4	8
31	105-0094	HOSE CLAMP 4-1/8 - 5	1
32	2-181-010001	CLAMP	3
34	3-201-010002	CONDUIT, PLASTIC FLEX 3/8 (NOT SHOWN)	AR
35	3-557-010469	HINGE PIN, FIFTH WHEEL	1
36	3-642-010134	ROD ROLLER	1
37	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK	1
38	100939	SCREW, RD HEAD SQ NECK 1/2-13 X 5-1/2	2
39	131196	PLATE, WINCH CABLE WEAR U/D	1
40	135181	BUSHING, NYLATRON	4
41	136352	DOOR WELDMENT, TOOLBOX	REF
	137070	DOOR WELDMENT, TOLLBOX GALV.	REF
42	1-654-010147-06	SCREW, RD HEAD SELF TAPPING #6-20 X 3/4	8
43	108610	SCREW, BUTTON HEAD 1/4-20 X 1	4
44	1-861-010032-06	WASHER, FLAT 1/4N	4
45	141609	HITCH PLATE ASSEMBLY (INCL ITEMS 46-52)	1
46	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
47	100823	NUT, HEX JAM 1-1/4-7 GRB	2
48	116822	HITCH, PLATE	1

UPPER DECK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
49	117556	LATCH ROD	1
50	117562	SHIM, HITCH	2
51	118889	CAM, FIFTH WHEEL LATCH	1
52	2-720-010002	SPRING CLAMP	1

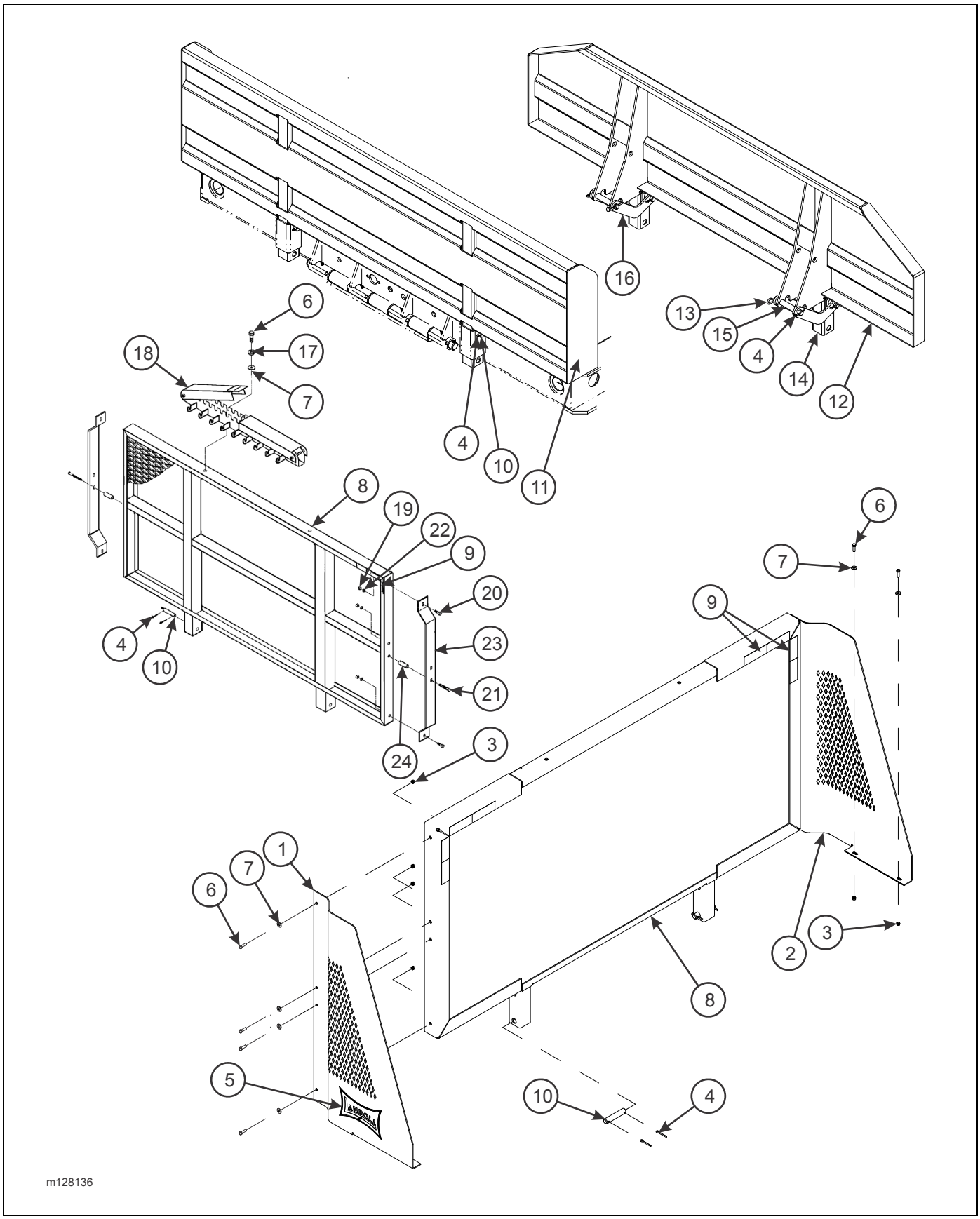


Figure 2-4: Bulkhead Assembly

BULKHEAD ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128136	BULKHEAD INSTALLATION (ITEMS 1-10)	REF
	134616	BULKHEAD INSTALLATION 26 X 102 (ITEMS 4, 9-10, 11)	
	136848	EXTENSION INSTALLATION 16/24 (ITEMS 4, 12-16)	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION (ITEMS 6-7, 17-18)	
	3-141-010121	BULKHEAD INSTALLATION (ITEMS 4, 8-10, 19-24)	REF
1	128137	EXTENSION, BULKHEAD ALUM LH	
	128153	EXTENSION, BULKHEAD LH	
2	128138	EXTENSION, BULKHEAD ALUM RH	
	128152	EXTENSION, BULKHEAD RH	
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	
4	1-557-010362-63	COTTER PIN 1/4 X 2	
5	1-573-010476	DECAL, BOW TIE (BLACK) (SEE PAGE 2-129)	
	1-573-010480	DECAL, BOW TIE (WHITE) (SEE PAGE 2-129)	
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	
7	1-861-010032-11	WASHER, FLAT 3/8	
8	3-141-010155	BULKHEAD WELDMENT 48 X 96	
9	3-573-010378	DECAL, 2” REFLEXITE TAPE, WHITE	
10	6-557-010163	PIN HITCH LEVEL LINK	
11	134608	BULKHEAD WELDMENT 26 X 102	
12	136849	BULKHEAD WELDMENT 16/24 X 102 2 POS	
13	1-557-010014	PIN, HAIR 1/4	
14	3-482-010249	MOUNT WELDMENT BULKHEAD	
15	3-557-010380	PIN	
16	3-755-010080	SUPPORT WELDMENT, BULKHEAD	
17	1-861-010034-11	WASHER, SPLIT LOCK 3/8	
18	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	
19	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	
20	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	
21	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	
22	1-861-010032-15	WASHER, FLAT 1/2W	
23	3-054-010101	BAR, SIDE 48" BULKHEAD 102"	
24	3-711-010025	SPACER, 48" BULKHEAD	

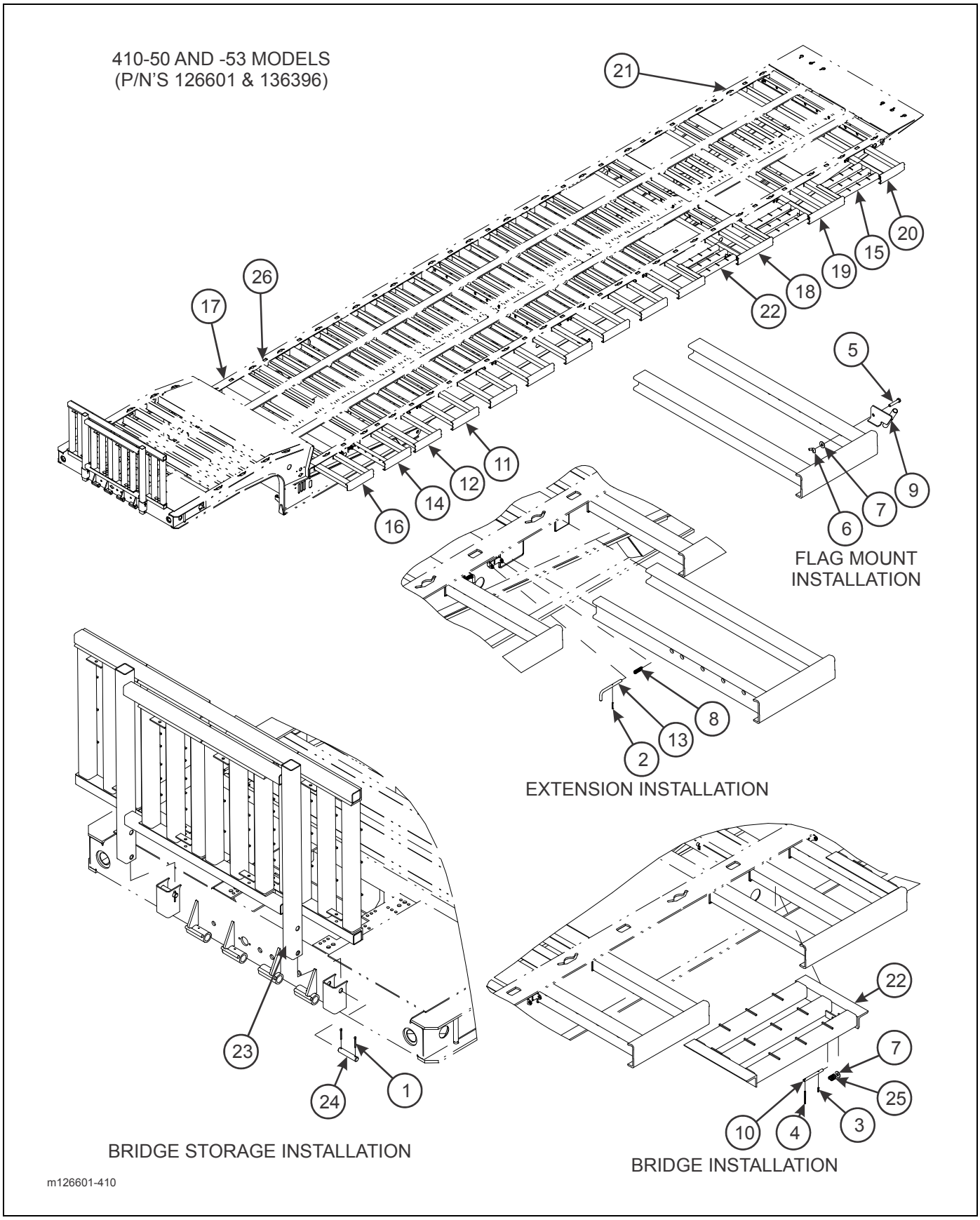


Figure 2-5: Pullout Installation (1 of 2)

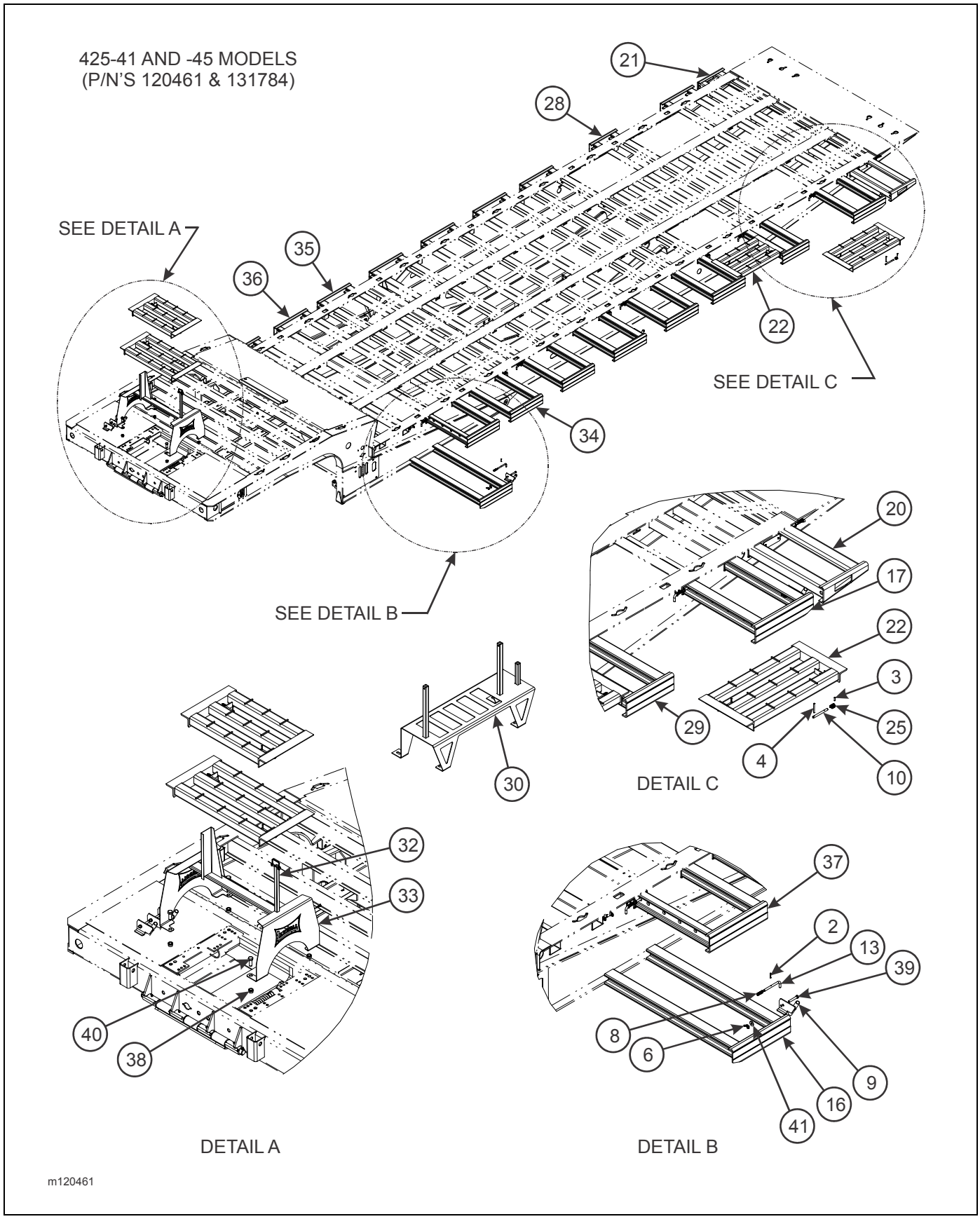


Figure 2-6: Pullout Installation (2 of 2)

PULLOUT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	126601	PULLOUT EXTENSION INSTALLATION 410-53	
	136396	PULLOUT EXTENSION INSTALLATION 410-50	
	120461	PULLOUT INSTALLATION 425-41	
	131784	PULLOUT EXTENSION INSTALLATION 425-45	
1	1-557-010362-63	PIN, COTTER 1/4 X 2	
2	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2	
3	0600-250-01000	PIN, ROLL 1/4 X 1	
4	1-647-010004225	PIN, ROLL 1/4 X 3	
5	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	
6	1-533-010001	NUT, WING 1/2-13	
7	1-861-010032-15	WASHER, FLAT 1/2W	
8	104253	SPRING, COMPRESSION P/O EXT LOCK	
9	108859	WELDMENT, BRACKET FLAG HOLDER	
10	118723	PIN, SLIDE LOCK EXT	
11	118929	PULLOUT ASSEMBLY LH	
12	118930	PULLOUT ASSEMBLY RH	
13	120457	PIN, P/O EXT LOCK	
14	120459	PULLOUT ASSEMBLY FRT LH	
15	120492	EXT. WLDMT REAR WHEEL WELL	
16	122913	PULLOUT CLIPPED RH (120461,126601,131784,136396)	
17	122916	PULLOUT CLIPPED LH(120461,126601,131784,136396)	
18	126602	PULLOUT WELDMENT AL WHEEL WELL RH (126601,136396)	
19	126603	PULLOUT WELDMENT AL WHEEL WELL LH (126601,136396)	
20	126605	PULLOUT WELDMENT AL REAR LH (126601,136396)	
	120379	EXTENSION REAR P/O LH (120461,131784)	
21	126606	PULLOUT WELDMENT AL REAR RH (126601,136396)	
	120380	EXTENSION REAR P/O RH (120461,131784)	
22	126609	EXTENSION WELDMENT FRT WHEEL WELL (126601,130543,131108,131131,136396)	
	120491	EXT. WLDMT FRT WHEEL WELL (120461,131784)	
23	126610	RACK WLDMT STORAGE EXT BRIDGES (126601,136396)	
24	6-557-010163	PIN, 1 X 5-1/8 (136396)	
	2-557-010006	PIN, 1 X 6-1/2 (126601)	
25	CO-975-74-2000	SPRING, COMPRESSION	
26	120458	PULLOUT ASSEMBLY FRT RH (126601,136396)	
28	120376	PULLOUT ASSEMBLY 18RH (120461,131784,136396)	
29	120377	PULLOUT ASSEMBLY 18LH (120461,131784,136396)	
30	120822	SUPPORT WELDMENT P/O EXT (120461)	
31	3-272-010021	ELECT BUTT SPLICE (NOT SHOWN) (120461)	
32	516-22PTL	RETAINING PIN MUD FLAP (120461,131131)	
33	130553	RACK WELDMENT, PULLOUT (120461,131784)	
34	131738	PULLOUT WELDMENT RH (120461,131784)	
35	131739	PULLOUT WELDMENT LH (120461,131784)	
36	131740	PULLOUT WELDMENT FRT RH (120461,131784)	
37	131741	PULLOUT WELDMENT FRT LH (120461,131784)	

PULLOUT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
38	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	
39	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	
40	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	
41	1-861-010032-15	WASHER, FLAT 1/2W	

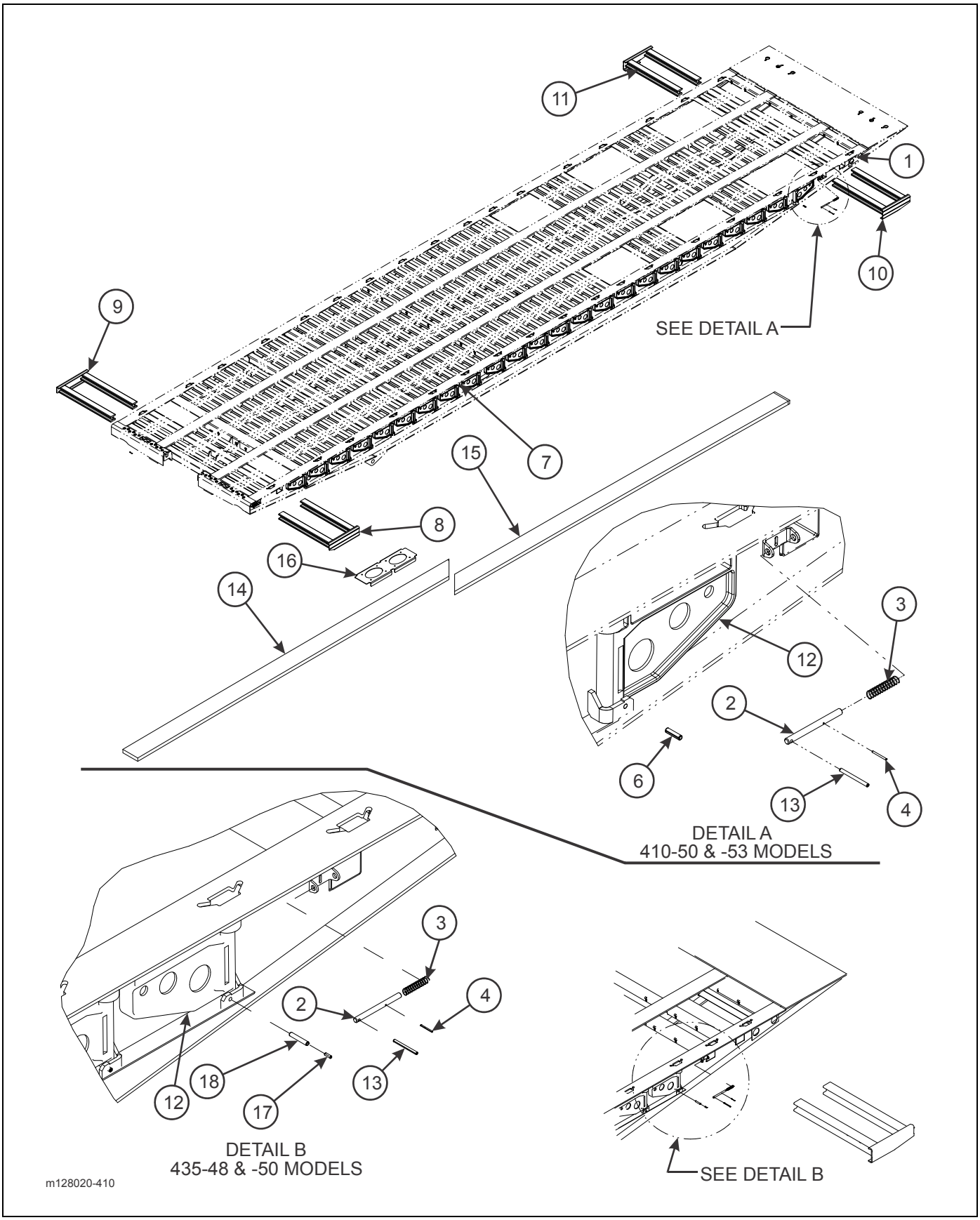


Figure 2-7: Outrigger Installation (Option)

OUTRIGGER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128020	OUTRIGGER INSTALLATION (410-50)	
	136399	OUTRIGGER INSTALLATION (410-53)	
	137894	OUTRIGGER INSTALLATION (435-48)	
	141628	OUTRIGGER PLANKS (INCL ITEMS 14-16) (410-50)	
1	1-343-010007	GROMMET	
2	128539	PIN, SLIDE LOCK	
3	104253	SPRING, COMPRESSION P/O EXT LOCK	
4	125520	ROLL PIN, SLOTTED 1/8 X 1-1/2	
6	0600-375-01500	ROLL PIN, SLOTTED 3/8 X 1-1/2	
7	-----	FRAME WELDMENT	
8	128226	PULLOUT WELDMENT FRONT LH (128020 & 136399)	
	137892	PULLOUT WELDMENT ALUM FRT LH (137894)	
9	128227	PULLOUT WELDMENT FRONT RH (128020 & 136399)	
	137893	PULLOUT WELDMENT ALUM FRT RH (137894)	
10	128228	PULLOUT WELDMENT REAR LH	
11	128229	PULLOUT WELDMENT REAR RH	
12	167-0022	OUTRIGGER CAST FOR 10 CHANNEL	
13	1-647-010004225	ROLL PIN, SLOTTED 1/4 X 3	
14	141629	PLANK, OUTRIGGER FRONT	
15	141636	PLANK, OUTRIGGER REAR	
16	141637	SUPPORT, OUTRIGGER PLANK	
17	127711	ROLL PIN, SLOTTED 1/4 X 3/4 (137894)	
18	127712	ROLL PIN, SLOTTED 3/8 X 2-1/4 (137894)	

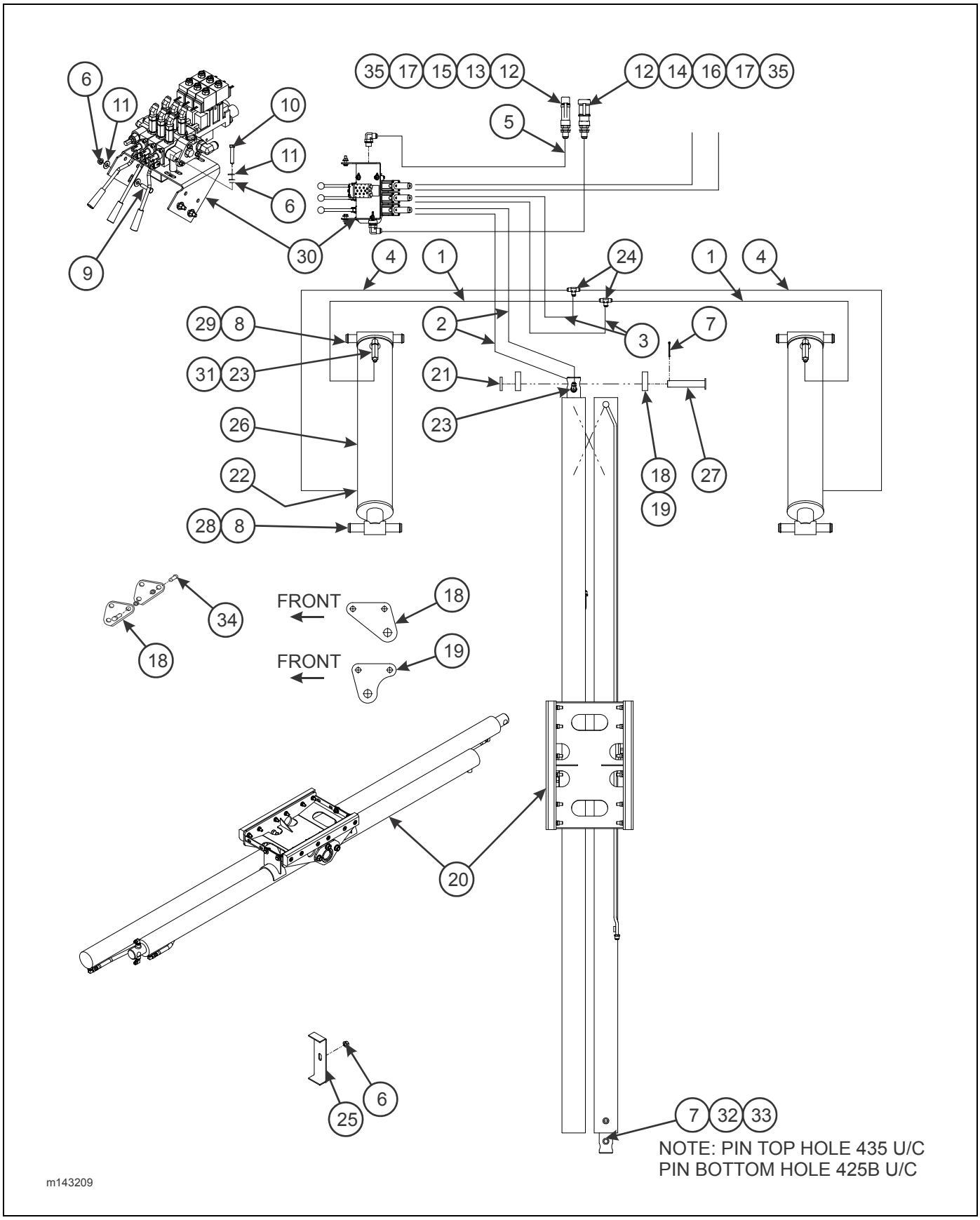


Figure 2-8: Hydraulic System

SCHEMATIC, HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-397-010301064	HOSE ASSEMBLY 1/2 X 64	
2	1-397-010301160	HOSE ASSEMBLY 1/2 X 160	
3	142068	HOSE ASSEMBLY 1/2 X 39	
4	1-397-010302084	HOSE ASSEMBLY 1/2 X 84	
5	1-397-010305190	HOSE ASSEMBLY 3/4 X 190 (NOT USED W/ ENGINE PACKAGE)	
6	1-510-010001	NUT, HEX FLANGE LOCK 3/8-16	
7	1-557-010362-54	PIN, COTTER 3/16 X 2-1/4	
8	1-630-010021-01	RING, 1.5 RETAINING HD (410 & 435)	
	120454	RING RETAINING 1.25 HD (425)	
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	
10	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	
11	1-861-010032-11	WASHER, FLAT 3/8	
12	1-861-010059-21	WASHER, LOCK INTERNAL TOOTH 1-1/8”	
13	105479	COUPLER, FLAT FACE MALE	
14	105480	COUPLER, FLAT FACE FEMALE	
15	105481	COUPLER, DUST CAP MALE	
16	105482	COUPLER, DUST CAP FEMALE	
17	105483	ADAPTER, BULKHEAD	
18	127422	ANCHOR, CYL BOLT-ON (410-48/50/53,425-45,435-48/53)	
19	127691	ANCHOR, CYL BOLT-ON (425-41, 435-50CA)	
20	144673	U/C CYL ASSEMBLY (410-50/53/55HD,435-48) (SEE PAGE 2-21)	
	144674	U/C CYL ASSEMBLY (435-50CA) (SEE PAGE 2-21)	
	144675	U/C CYL ASSEMBLY (435-53) (SEE PAGE 2-21)	
	144676	U/C CYL ASSEMBLY (410-48/50CA, 425-45) (SEE PAGE 2-21)	
	144677	U/C CYL ASSEMBLY (425-41, 435-41) (SEE PAGE 2-21)	
21	123150	WASHER, CYLINDER PIN	
22	202702-8-8S	ADAPTER (410 & 435)	
	202702-10-8S	ADAPTER (425)	
23	2062-8-8S	ADAPTER (410 & 435)	
	2062-10-8S	ADAPTER, 90 (425)	
24	2033-8-8S	ADAPTER TEE	
25	2-181-010001	CLAMP, HOSE	
26	3-242-010189	CYLINDER, LIFT 6 X 41 (410 & 435) (SEE PAGE 2-29)	
	117400	CYLINDER, LIFT 4-1/2 X 30 (425) (SEE PAGE 2-28)	
27	3-557-010031	PIN, CYL U/C	
28	3-557-010470-01	PIN, CYL BUTT END (410 & 435)	
	120452	PIN, TILT CYLINDER (425)	
29	3-557-010470-02	PIN, CYL ROD END (410 & 435)	
	120452	PIN, TILT CYL. (425)	
30	139525	VALVE ASSEMBLY 3 SPOOL (SEE PAGE 2-17)	
31	3-846-010155	VALVE, RESTRICTOR, 1/16-ONE WAY	
32	3-557-010033	PIN, CYL BUTT END (410-48/50/53)	
	3-557-010031	PIN, CYL U/C (425-41 & 435-48/53)	
33	1-861-010032-29	WASHER, FLAT 1-1/4W	
34	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5	
35	138209	ADAPTER 45 (USED W/ ENGINE PACKAGE)	
36	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	

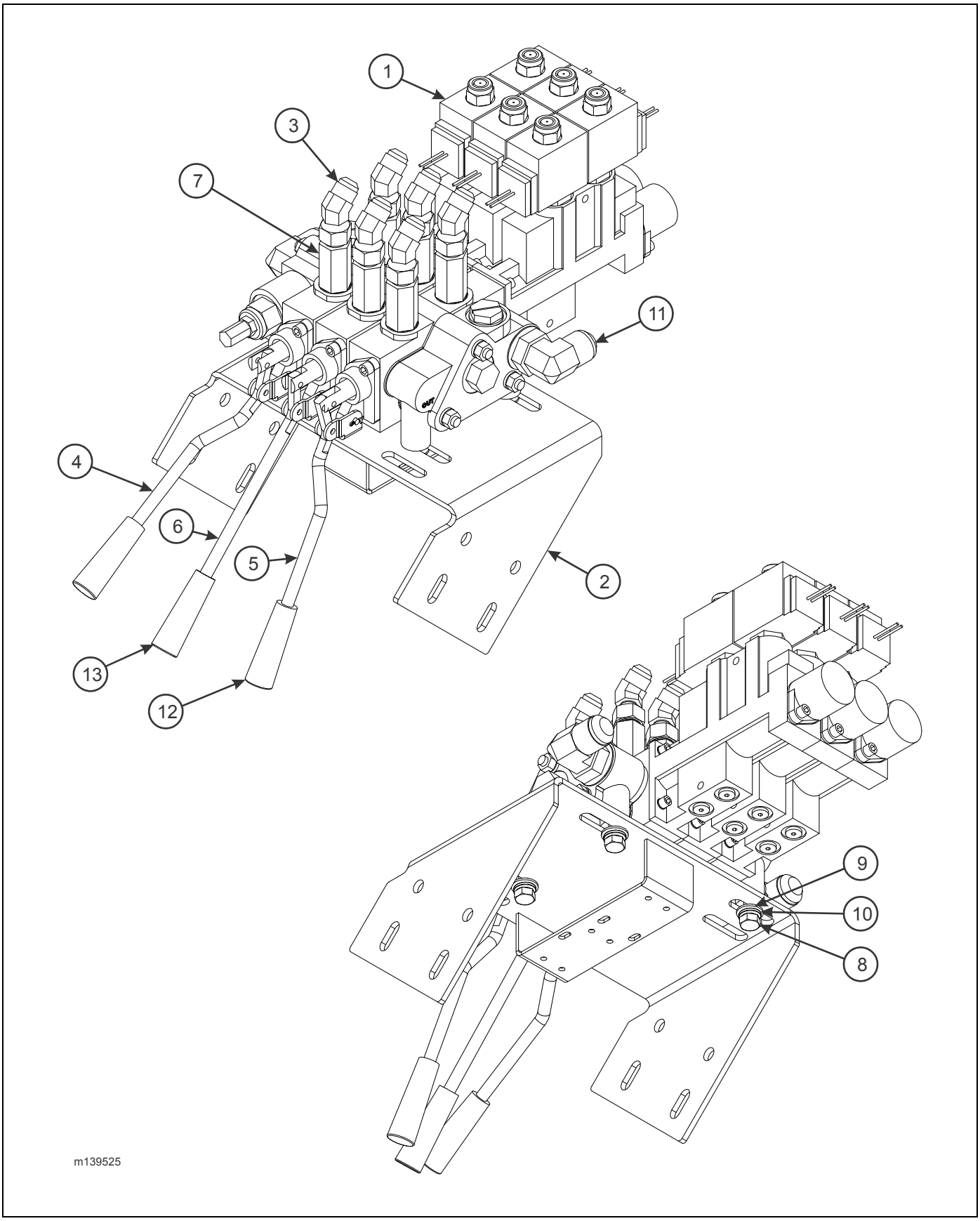


Figure 2-9: Three Spool Valve Assembly

THREE SPOOL VALVE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	139525	VALVE ASSEMBLY, 3 SPOOL	
1	114540	VALVE, 3 STACK 2ND MOTOR SOL (SEE PAGE 2-19)	1
2	116837	VALVE MOUNT, CONTROL	1
3	121031	FITTING, 45	6
4	136377	VALVE HANDLE, RH	1
5	136378	VALVE HANDLE, LH	1
6	139519	VALVE HANDLE, CTR FORMED	1
7	140893	ADAPTER, STR	6
8	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
9	1-861-010032-10	WASHER, FLAT 3/8N	3
10	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
11	2062-10-12S	ADAPTER, 90	2
12	3-360-010072	HANDLE, PLASTIC	2
13	3-360-010090	HANDLE, PLASTIC RED	1

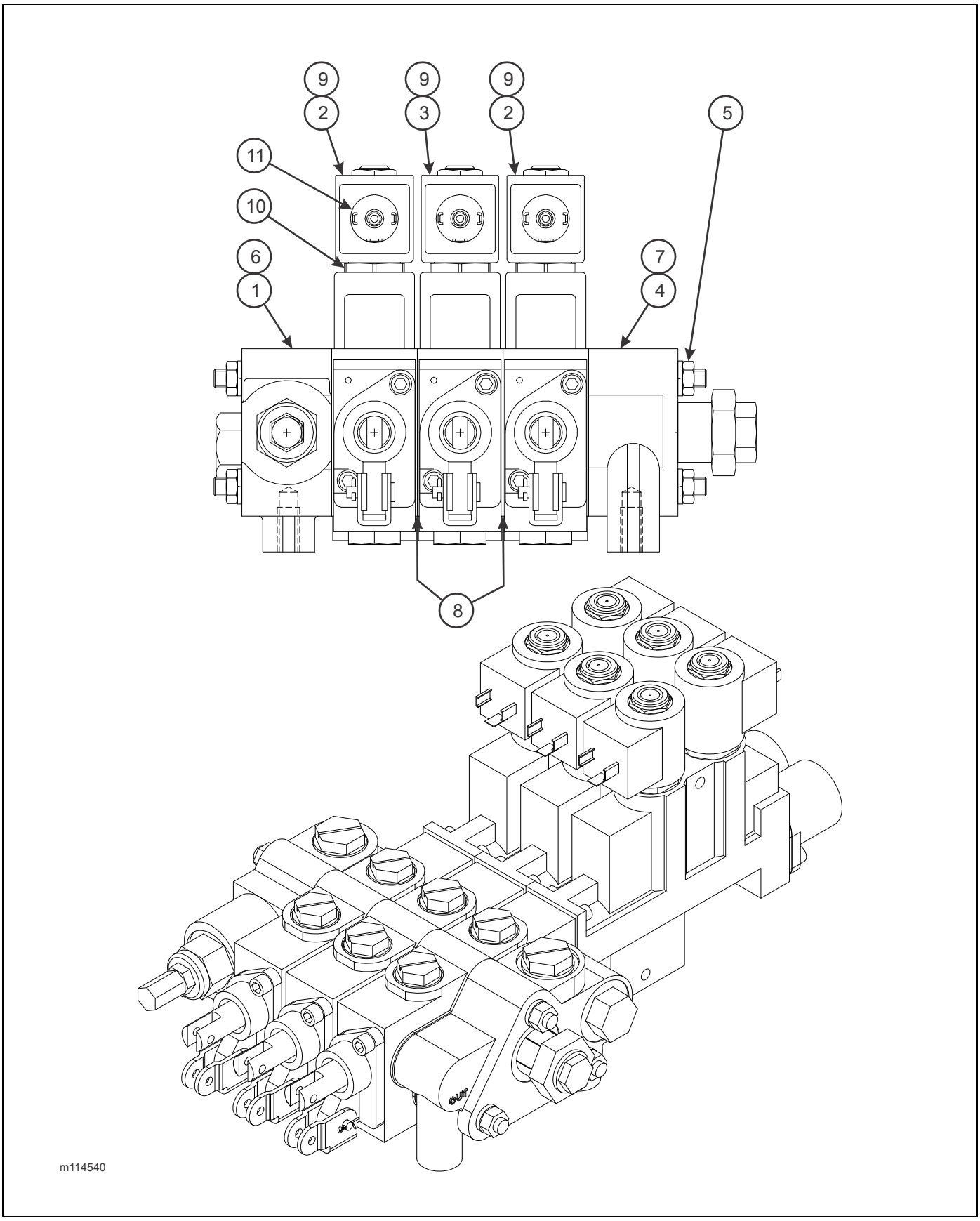


Figure 2-10: Three Spool Valve

THREE SPOOL VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	114540	THREE STACK VALVE	
1	120751	INLET VALVE SECTION KIT	
2	143160	VALVE SECTION KIT	
3	143161	VALVE SECTION KIT	
4	142483	OUTLET VALVE SECTION KIT	
5	147315	TIEROD KIT	
6	660580002	SEAL KIT FOR INLET SECTION	
7	660580003	SEAL KIT FOR OUTLET SECTION	
8	660580004	O-RING SEAL KIT FOR BETWEEN SECTIONS	
9	660580005	SEAL KIT FOR SOLENOID WORK SECTION	
10	142484	COIL	
11	142485	CARTRIDGE	
12	142486	COIL CARTRIDGE ASSEMBLY (INCL ITEMS 10 & 11)	

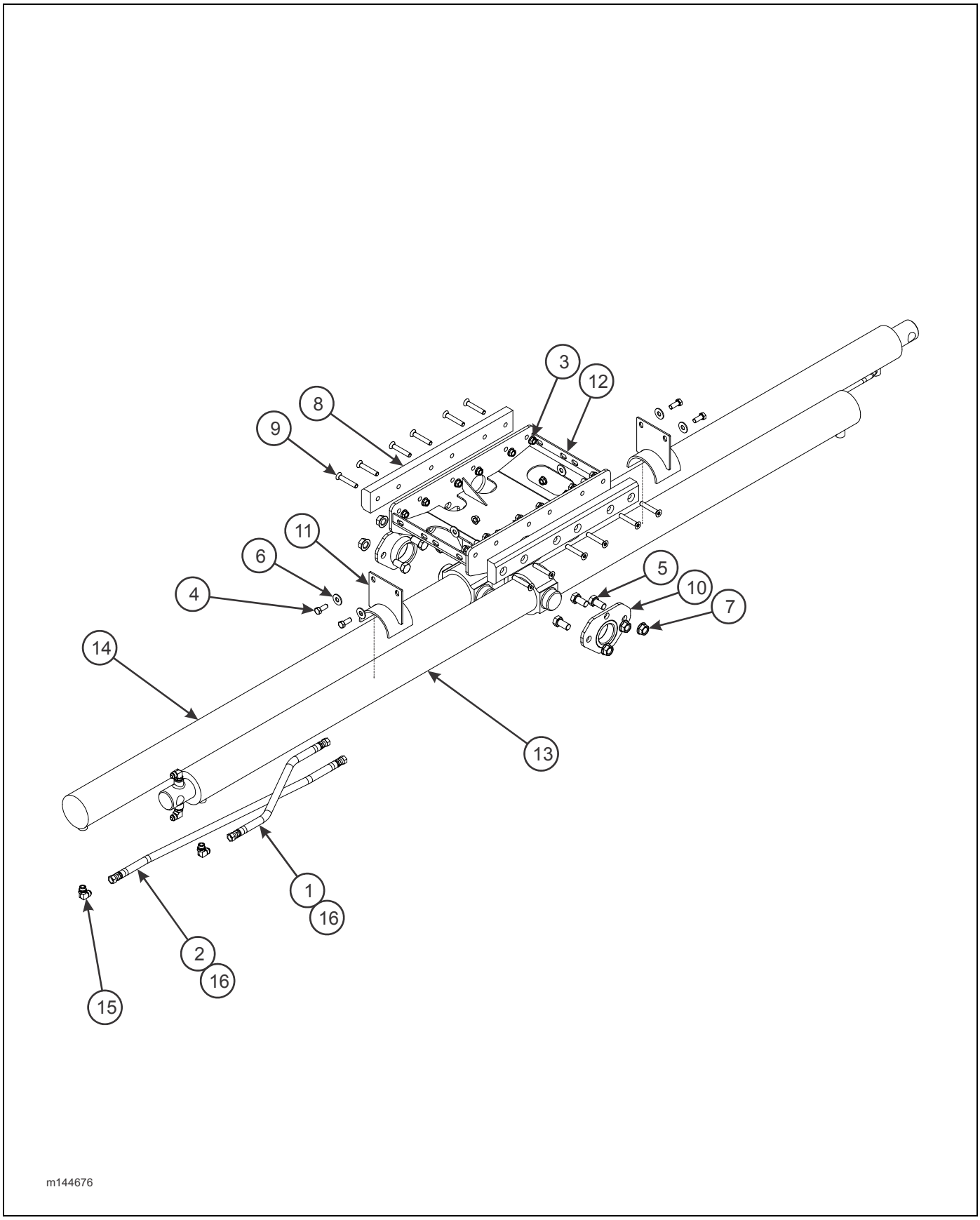


Figure 2-11: U/C Cylinder Assembly

U/C CYLINDER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	144673	U/C CYL ASSEMBLY (410-50/53/55HD,435-48)	
	144674	U/C CYL ASSEMBLY (435-50CA)	
	144675	U/C CYL ASSEMBLY (435-53)	
	144676	U/C CYL ASSEMBLY (410-48/50CA, 425-45)	
	144677	U/C CYL ASSEMBLY (425-41, 435-41)	
1	1-397-010301024	HOSE ASSEMBLY 1/2 X 24 (144674, 144675, 144676,154434)	1
2	1-397-010301039	HOSE ASSEMBLY 1/2 X 39 (144676)	1
	1-397-010301048	HOSE ASSEMBLY 1/2 X 48 (144674, 144675)	1
3	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	16
4	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
5	1-654-010061-03	SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR5	6
6	1-861-010032-15	WASHER, FLAT 1/2W	8
7	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	6
8	117386	NYLATRON SLIDE, U/C CYLINDER	2
9	118627	SCREW, HEX SOCKET CTSK 1/2-13 X 3	12
10	122621	BRACKET WELDMENT, U/C CYLINDER TRUNNION	2
11	142050	SADDLE WELDMENT, U/C CYLINDER TRUNNION	2
12	142053	MOUNT WELDMENT, CYLINDER TRUNNION	1
13	144662	CYLINDER, 4 X 100 PORT ROD PAINTED (STREETSIDE) (144676, 144677,154434) (SEE PAGE 2-22)	1
	144666	CYLINDER, 4 X 126 PORT ROD PAINTED (STREETSIDE) (144673,144674) (SEE PAGE 2-24)	1
	144670	CYLINDER, 4 X 138 PORT ROD PAINTED (STREETSIDE) (144675) (SEE PAGE 2-26)	1
14	144664	CYLINDER, 4 X 100 PAINTED (CURBSIDE) (144677) (SEE PAGE 2-23)	1
	144668	CYLINDER, 4 X 126 PAINTED (CURBSIDE) (144673, 144676,154434) (SEE PAGE 2-25)	1
	144672	CYLINDER, 4 X 138 PAINTED (CURBSIDE) (144674,144675) (SEE PAGE 2-27)	1
15	2062-8-8S	ADAPTER, 90	4
16	111301	HOSE ASSEMBLY 1/2 X 36 (144673,154434)	2
	1-397-010301024	HOSE ASSEMBLY 1/2 X 24 (144677)	2

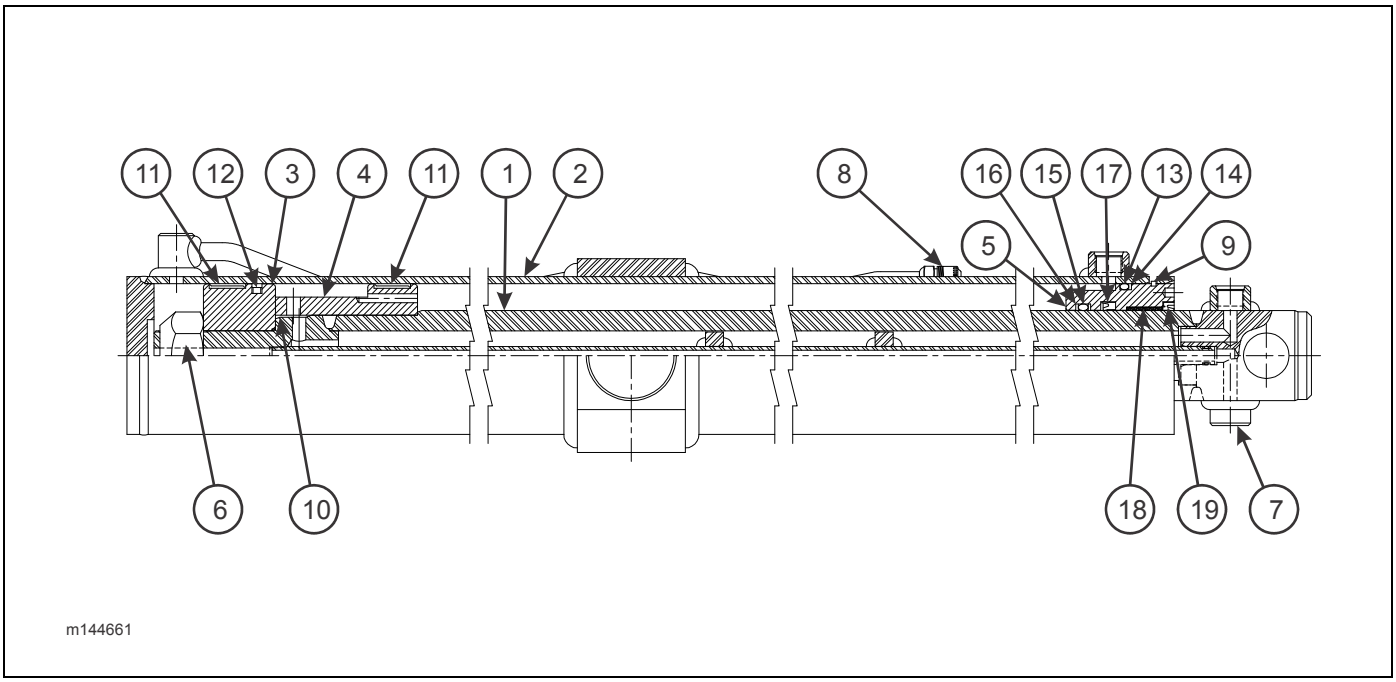


Figure 2-12: Cylinder, Hydraulic 4 x 100 Ported Rod (Streetside) (410-48/50CA, 425-41/45, 435-41)

CYLINDER, HYDRAULIC 4 X 100 PORTED ROD (STREETSIDE) (410-48/50CA, 425-41/45, 435-41)

ITEM	PART NO.	DESCRIPTION	QTY.
	144661	CYLINDER, HYDRAULIC 4 X 100 PORTED ROD	
1	146834	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	-----	PISTON	1
5	146854	GLAND	1
6	-----	LOCKNUT	1
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146836	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

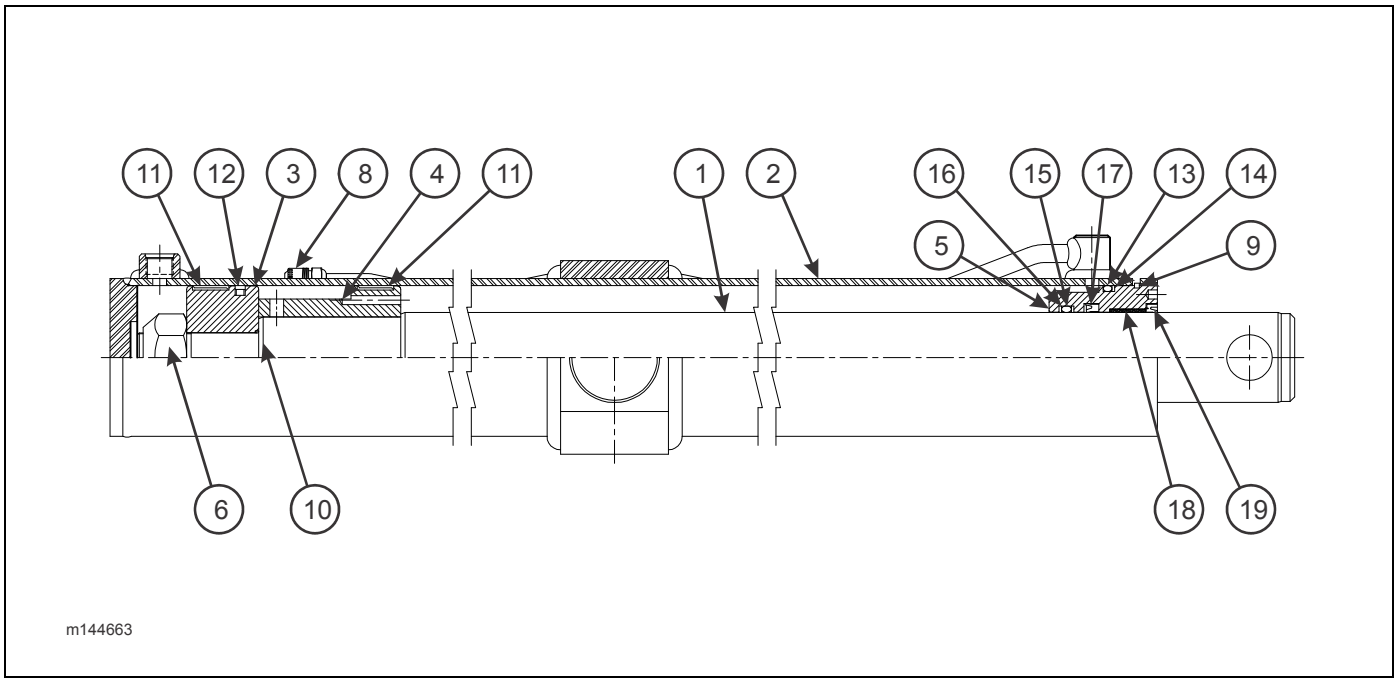


Figure 2-13: Cylinder, Hydraulic 4 x 100 (Curbside) (425-41, 435-41)

CYLINDER, HYDRAULIC 4 X 100 (CURBSIDE) (425-41, 435-41)

ITEM	PART NO.	DESCRIPTION	QTY.
	144663	CYLINDER, HYDRAULIC 4 X 100	
1	146837	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	-----	PISTON	1
5	146854	GLAND	1
6	-----	LOCKNUT	1
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146839	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

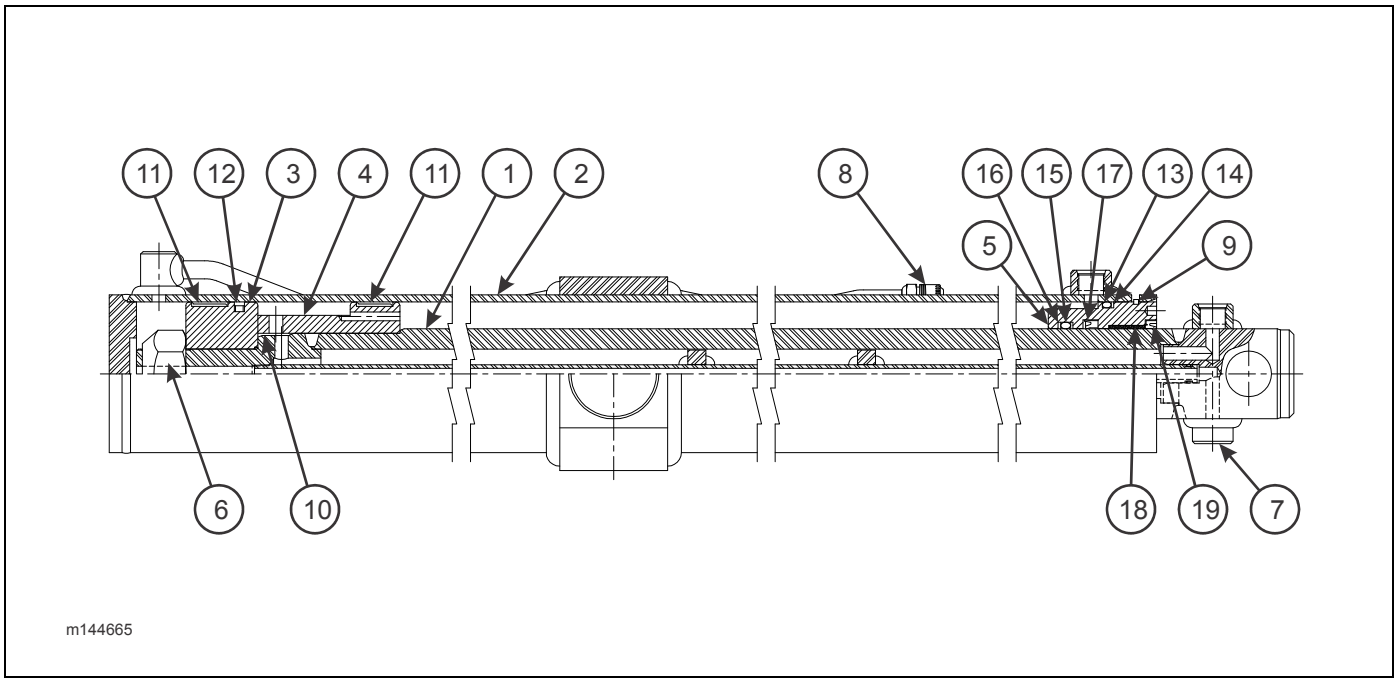


Figure 2-14: Cylinder, Hydraulic 4 x 126 Ported Rod (Streetside) (410-50/53/55HD, 435-48/50CA)

CYLINDER, HYDRAULIC 4 X 126 PORTED ROD (STREETSIDE) (410-50/53/55HD, 435-48/50CA)

ITEM	PART NO.	DESCRIPTION	QTY.
	144665	CYLINDER, HYDRAULIC 4 X 126	
1	146840	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	-----	PISTON	1
5	146854	GLAND	1
6	-----	LOCKNUT	1
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146842	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

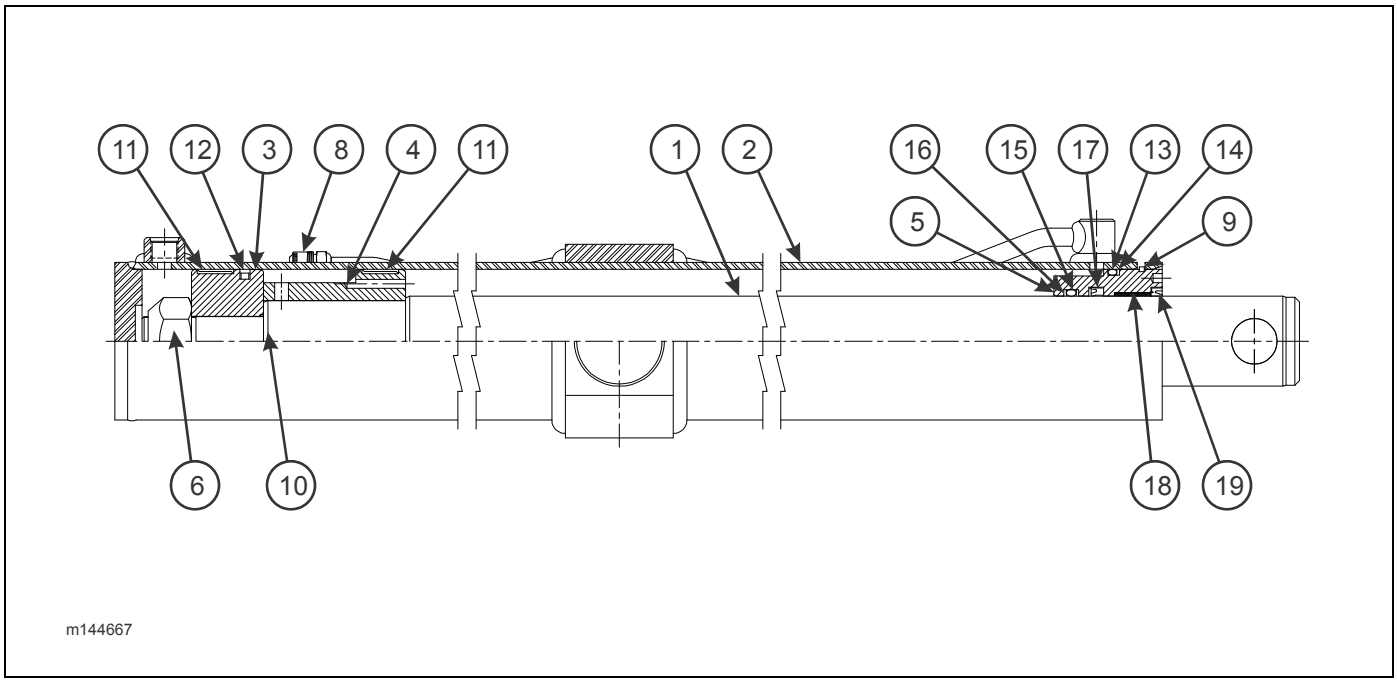


Figure 2-15: Cylinder, Hydraulic 4 x 126 (Curbside)
(410-50/53/55HD, 435-48/50CA)

CYLINDER, HYDRAULIC 4 X 126 (CURBSIDE) (410-50/53/55HD, 410-48/50CA, 425-45, 435-48)

ITEM	PART NO.	DESCRIPTION	QTY.
	144667	CYLINDER, HYDRAULIC 4 X 126	
1	146843	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	-----	PISTON	1
5	146854	GLAND	1
6	-----	LOCKNUT	1
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146845	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

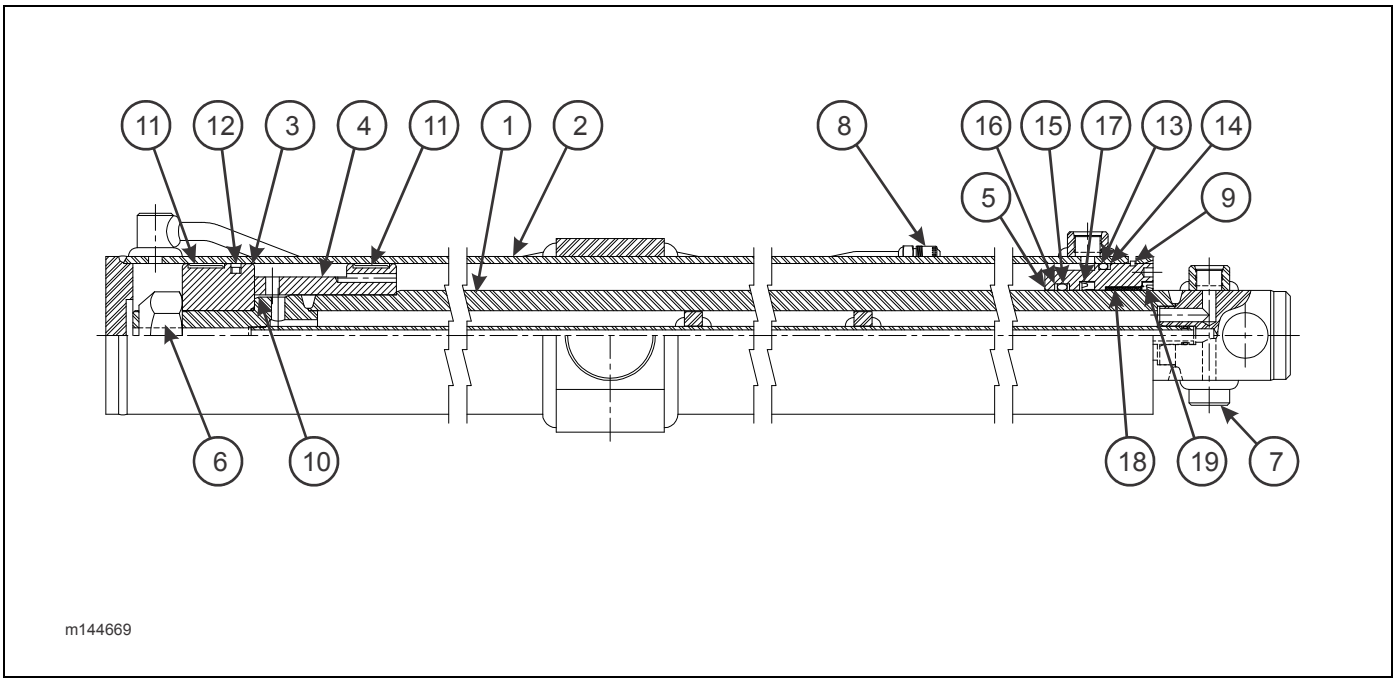


Figure 2-16: Cylinder, Hydraulic 4 x 138 Ported Rod (Streetside) (435-53)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	144669	CYLINDER, HYDRAULIC 4 X 138 PORTED ROD	
1	146846	PISTON TUBE ASSEMBLY	
2	-----	BUTT & TUBE ASSEMBLY	
3	-----	PISTON	
4	-----	PISTON	
5	146854	GLAND	
6	-----	LOCKNUT	
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146848	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

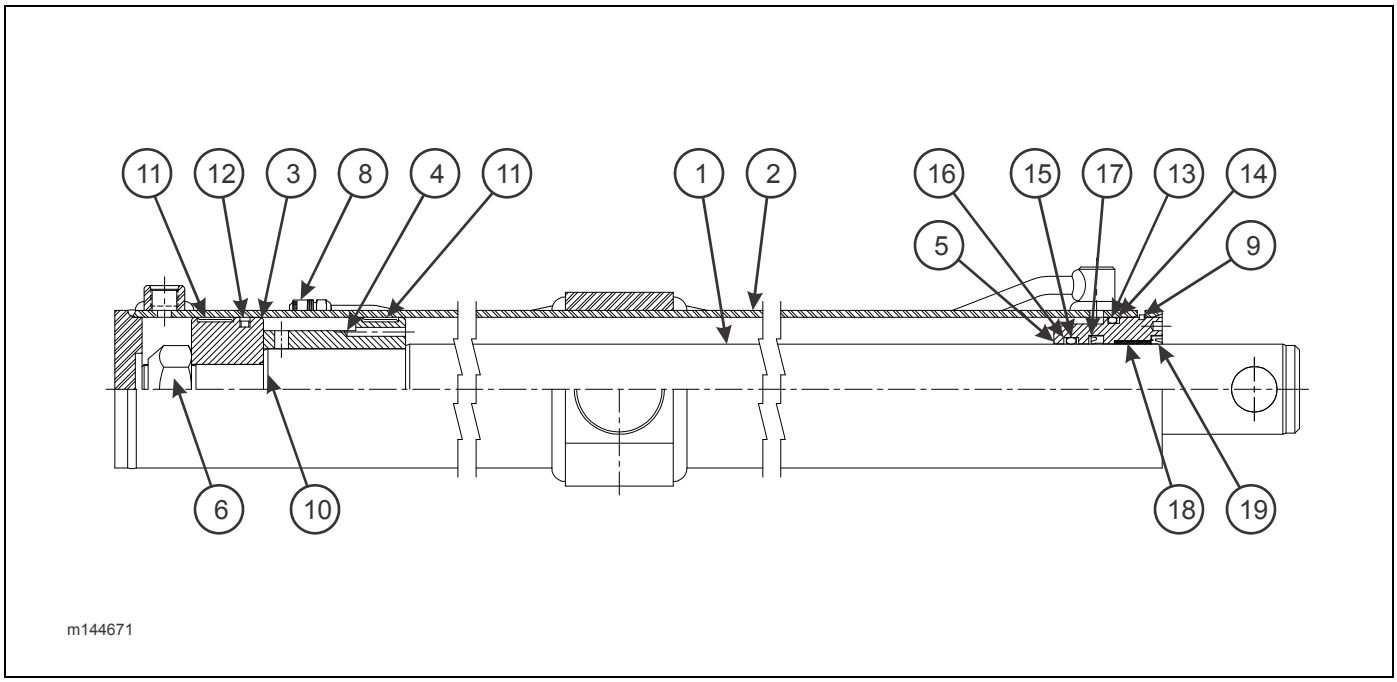


Figure 2-17: Cylinder, Hydraulic 4 x 138 (Curbside) (435-53)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	144671	CYLINDER, HYDRAULIC 4 X 138	
1	146849	PISTON TUBE ASSEMBLY	1
2	-----	BUTT & TUBE ASSEMBLY	1
3	-----	PISTON	1
4	-----	PISTON	1
5	146854	GLAND	1
6	-----	LOCKNUT	1
7	-----	SHIPPING PLUG	
8	-----	JIC CAP	
9	-----	SQ RETAINING RING	
10	-----	O-RING	
11	-----	BEARING RING	
12	-----	TEFLON SEAL ASSEMBLY	
13	-----	O-RING	
14	-----	BU-WASHER	
15	-----	O-RING	
16	-----	BU-WASHER	
17	-----	U-CUP	
18	-----	DX BUSHING	
19	-----	WIPER	
20	-----	INSTALLATION RING	
	146851	PACKING KIT (CONTAINS ALL SEALS AND O-RINGS)	

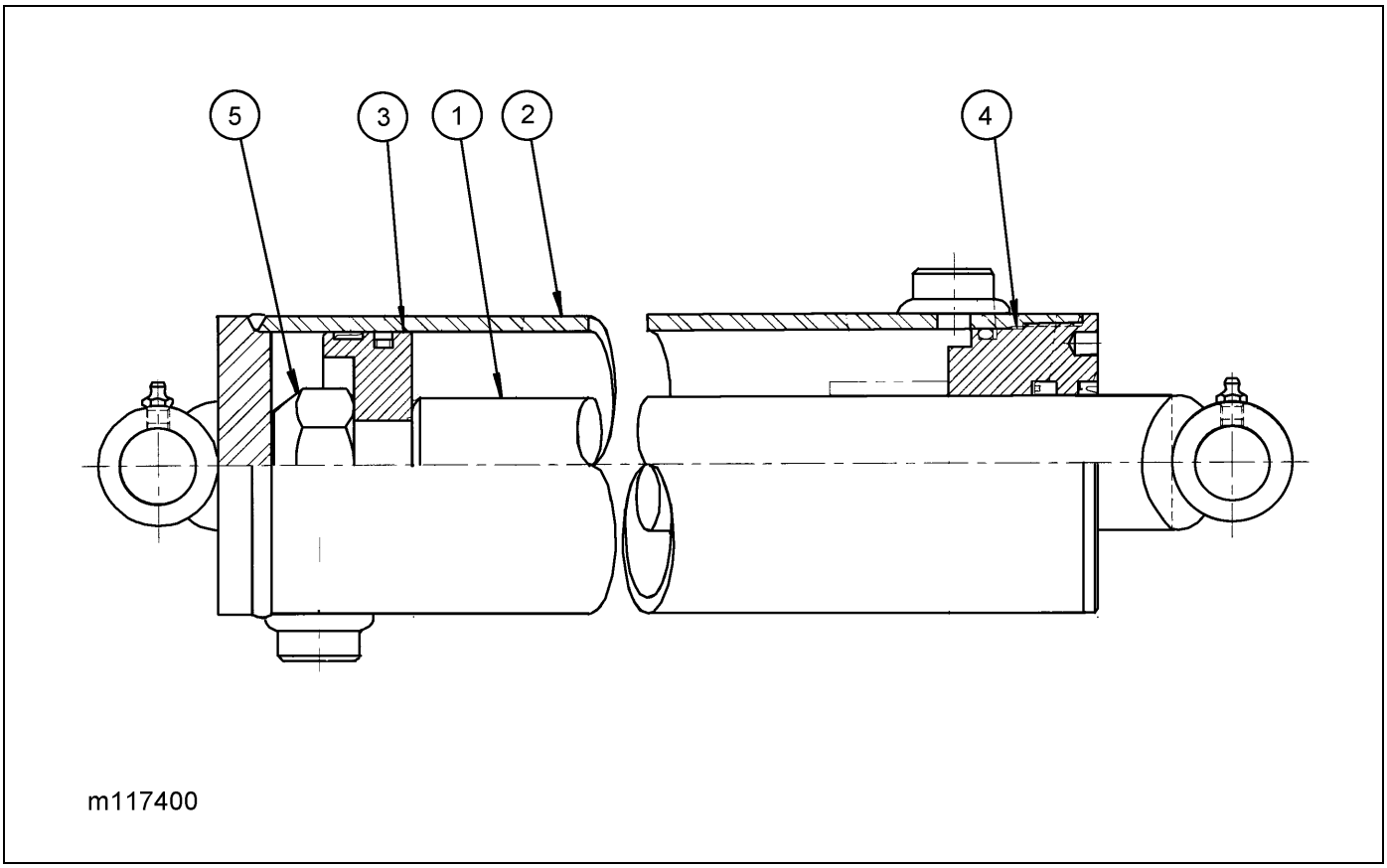


Figure 2-18: Cylinder, Hydraulic 4-1/2 X 30 (425)

CYLINDER 4-1/2 X 30 (425)

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

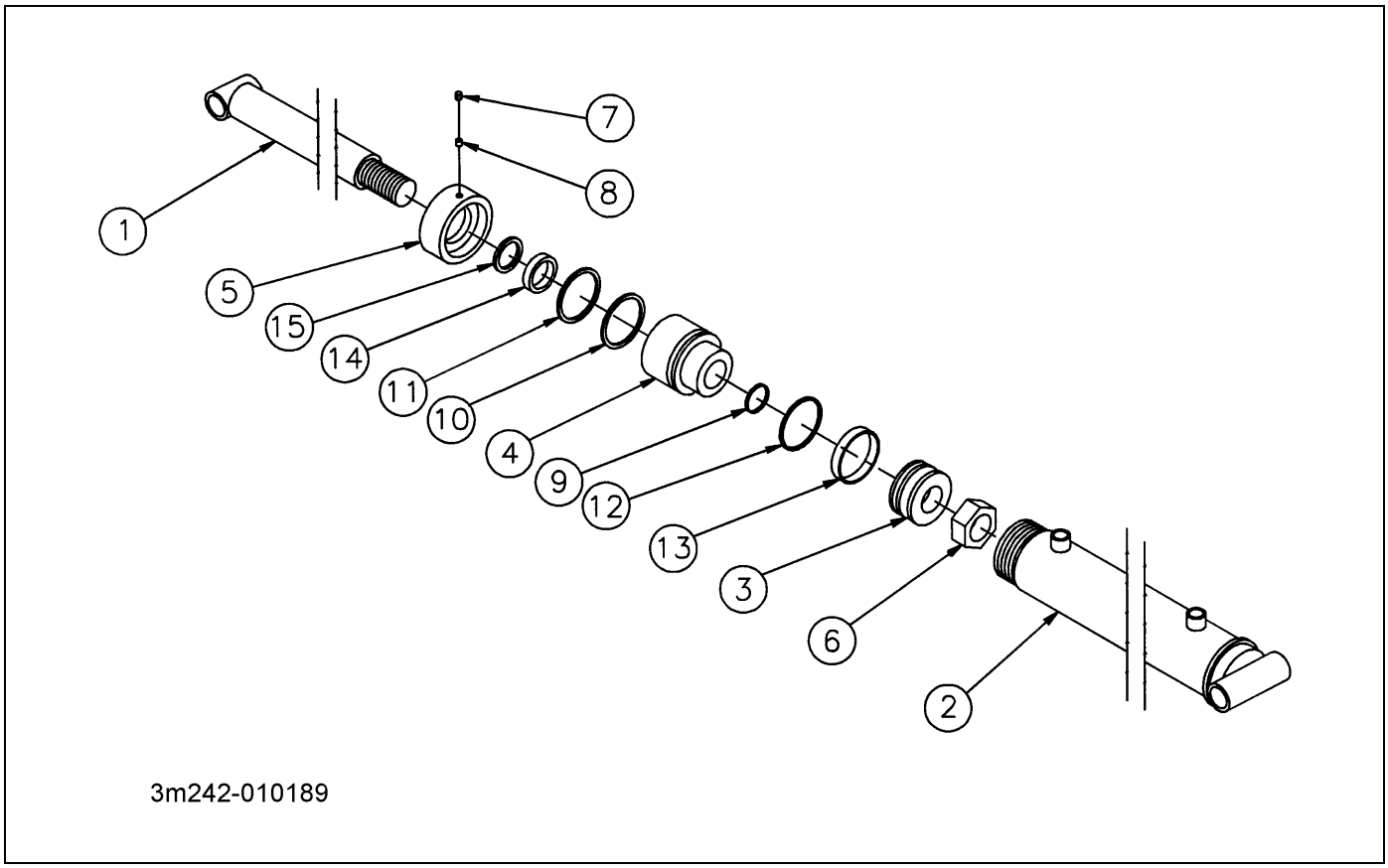


Figure 2-19: Cylinder, Hydraulic 6 X 41 (435 & 410)

CYLINDER 6" X 41" (435 & 410)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010189	CYLINDER HYDRAULIC 6" X 41" (PRINCE PMC-22030)	
1	140319	PISTON ROD ASSEMBLY	1
2	-----	BUTT AND TUBE ASSEMBLY	1
3	148138	PISTON	1
4	167691	GLAND	1
5	148140	GLAND CUP	1
6	-----	NUT, LOCK	1
7	-----	SET SCREW	1
8	-----	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

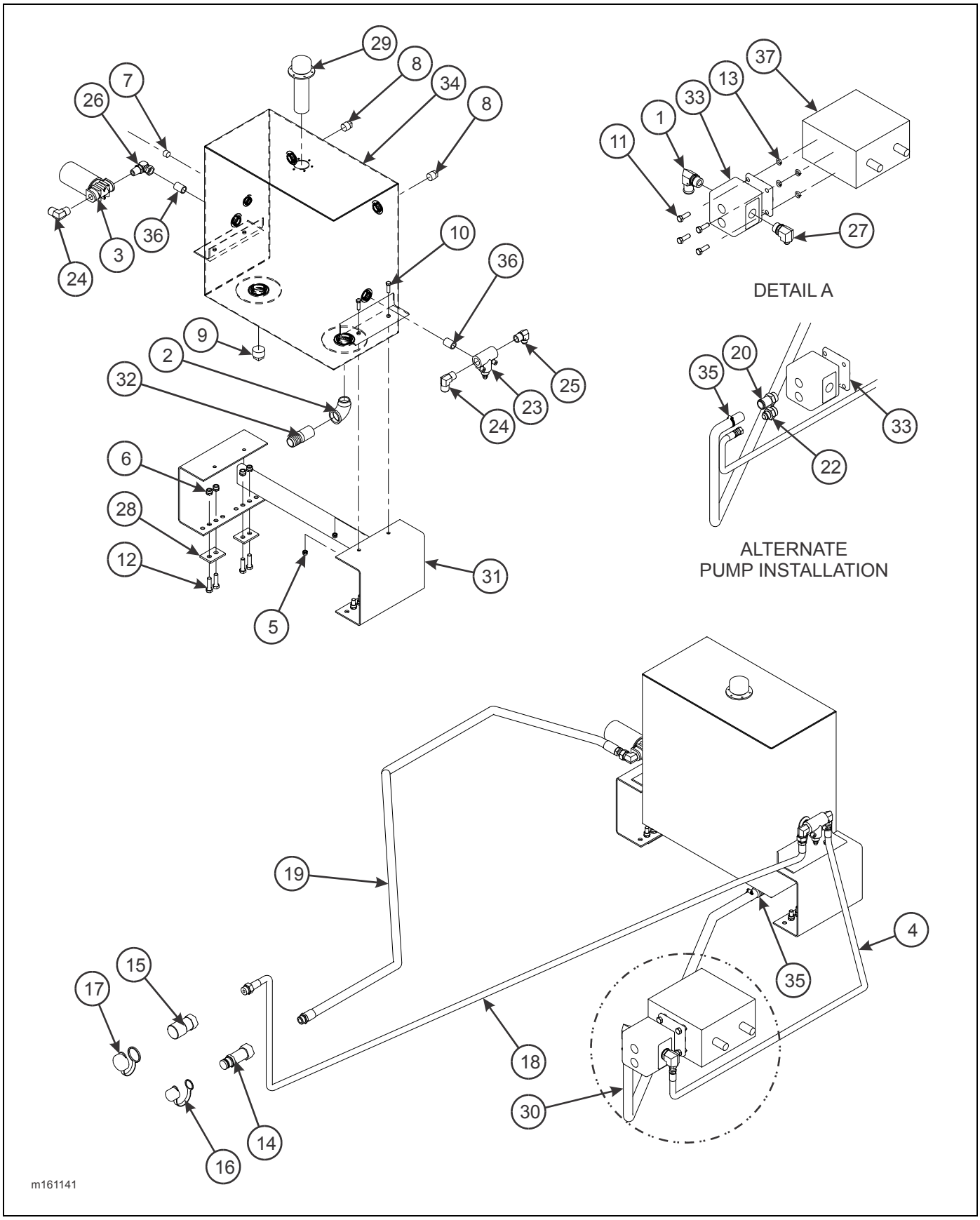


Figure 2-20: 30 Gallon Hydraulic Wet Kit Items

30 GALLON 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	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
2	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
3	1-295-010001	FILTER, RETURN	1
	1-295-010002	FILTER ELEMENT	1
4	1-397-010301100	HOSE ASSEMBLY 1/2 X 100	1
5	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-560-010002-04	PIPE PLUG 1/2	1
8	1-560-010002-05	PIPE PLUG 3/4	2
9	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
10	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
11	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
12	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	8
13	1-861-010034-13	WASHER, SPLIT LOCK 1/2	4
14	105479	COUPLER, FLAT FACE MALE NOSE	1
15	105480	COUPLER, FLAT FACE FEMALE BODY	1
16	105481	COUPLER, DUST CAP MALE	1
17	105482	COUPLER, DUST CAP FEMALE	1
18	106759	HOSE ASSEMBLY 1/2 X 164	1
19	106760	HOSE ASSEMBLY 3/4 X 164	1
20	107513	ADAPTER	1
22	12-16 070120	ADAPTER	1
23	125130	RD12D HYD BY PASS SRDD	1
24	2024-12-12S	ADAPTER 90	2
25	2024-12-8S	ADAPTER, 90	1
26	2047-12-12S	ELBOW, 90 SWIVEL	1
27	2062-16-8S	ADAPTER, 90	1
28	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
29	3-162-010001	FILLER-BREATHER-STRAINER ASSEMBLY	1
30	3-399-010001	HOSE, 1-1/4 SUCTION	8’
31	3-482-010503	TANK MOUNT	1
32	3-561-010001	HOSE BARB 1-1/4	1
33	3-591-010001	HYDRAULIC GEAR PUMP	1
34	3-786-010043	TANK, HYDRAULIC	1
35	6828	IDEAL HOSE CLAMP	2
36	C3069X12	NIPPLE, HEX	2
37	PTO	POWER TAKE OFF	*1,0

* 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.

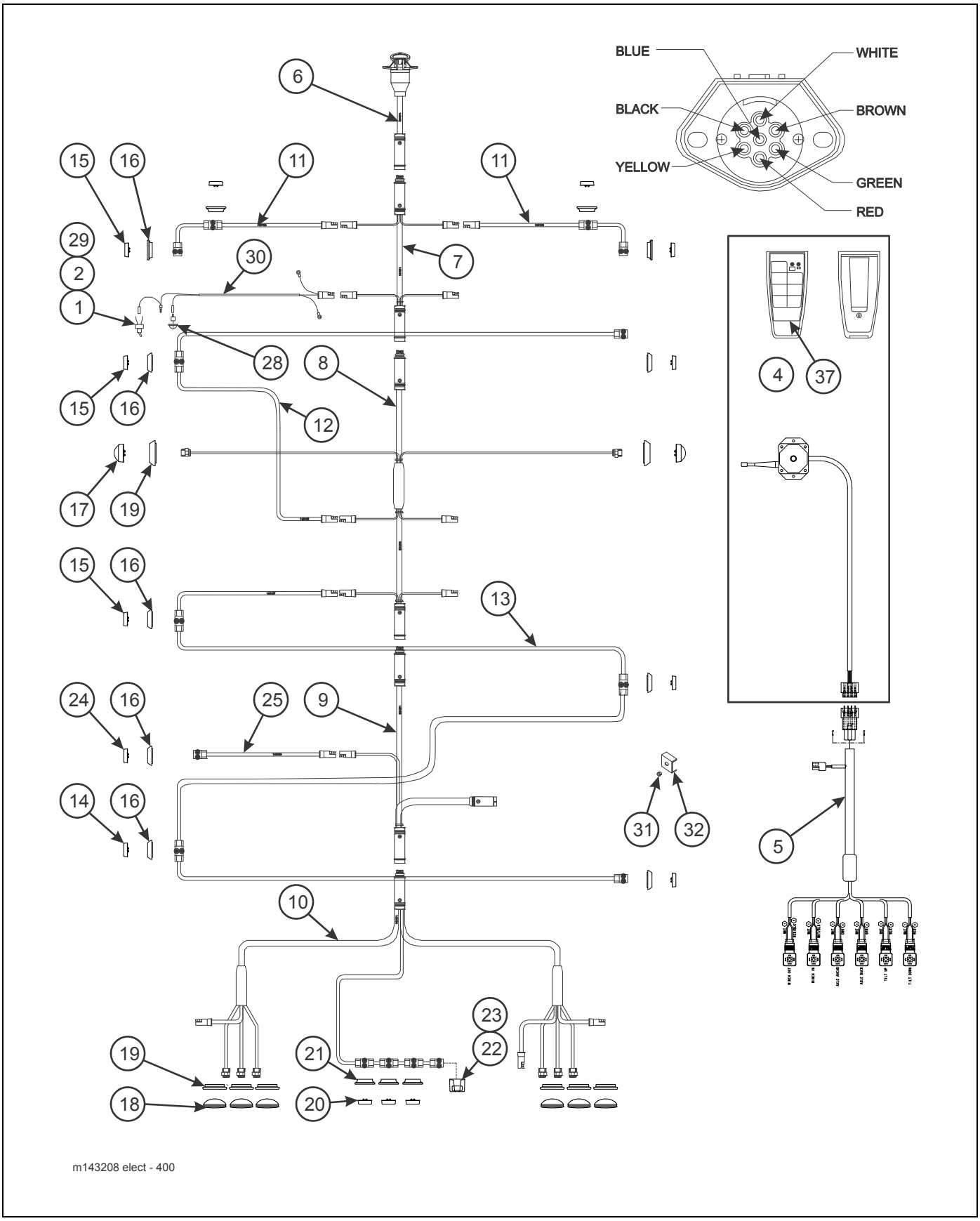


Figure 2-21: Electrical System

ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	STP-147	CONNECTOR, BULLET MALE	2
2	STP-164	CONNECTOR, BULLET FEMALE	1
3	1-796-010003-02	TIE WRAPS (NOT SHOWN)	2
4*	139537	RECEIVER/TRANSMITTER ASSEMBLY, KAR-TECH	1
	143125	TRANSMITTER, 6 FUNCTION	1
	143127	POUCH, TRANSMITTER	1
5	140083	HARNESS ASSEMBLY, KAR-TECH	1
6	143100	HARNESS, 7 WAY RECEPTACLE	1
7	143101	HARNESS, FRONT MAIN	1
8	143102	HARNESS, BED MAIN	1
9	143103	HARNESS, E-CHAIN	1
10	143104	HARNESS, BUMPER	1
11	143105	HARNESS, MARKER FRONT CORNER	2
12	143106	HARNESS, MARKER FRONT BED	1
13	143107	HARNESS, MARKER REAR BED	1
14	143108	LIGHT, RED LED 2.5 CL/MARKER	2
15	143109	LIGHT, YELLOW LED 2.5 CL/MARKER	8
16	143110	GROMMET, 2.5 SURFACE MOUNT	7
17	143112	LIGHT, YEL AUX TURN	2
18	143113	LIGHT, RED LED OVAL STT	6
19	143114	GROMMET, OVAL	8
20	143115	LIGHT, RED LED RECT CLEARANCE	3
21	143116	GROMMET, RECT	3
22	143117	LIGHT, CLEAR LED LICENSE	1
23	143118	BRACKET, LIGHT LICENSE	1
24	143119	LIGHT, YELLOW LED ABS	1
25	143120	HARNESS, ABS LAMP	1
26	143122	CLAMP, HARNESS (NOT SHOWN)	4
27	239-3646-5	TERMINAL RING 1/4 X 14AWG (NOT SHOWN)	1
28	26331	LIGHT, PANEL	1
29	3-272-010017	TOGGLE SWITCH, SEALED	1
30	3-368-010253	HARNESS ASSY, CONTROL PANEL 600	1
31	1-510-010001	NUT, FLANGE 3/8-16	AR
32	2-181-010001	CLAMP, HOSE	AR
37	143128	DECAL, 6 FUNCTION WINCH, TILT, AXLE	1
38	143111	GROMMET, 2.5 RECESSED MOUNT	4

* ITEM 37 (DECAL) MUST BE PURCHASED WITH THE PURCHASE OF EITHER P/N 139537 (RECEIVER/TRANSMITTER) OR 143125 (TRANSMITTER)

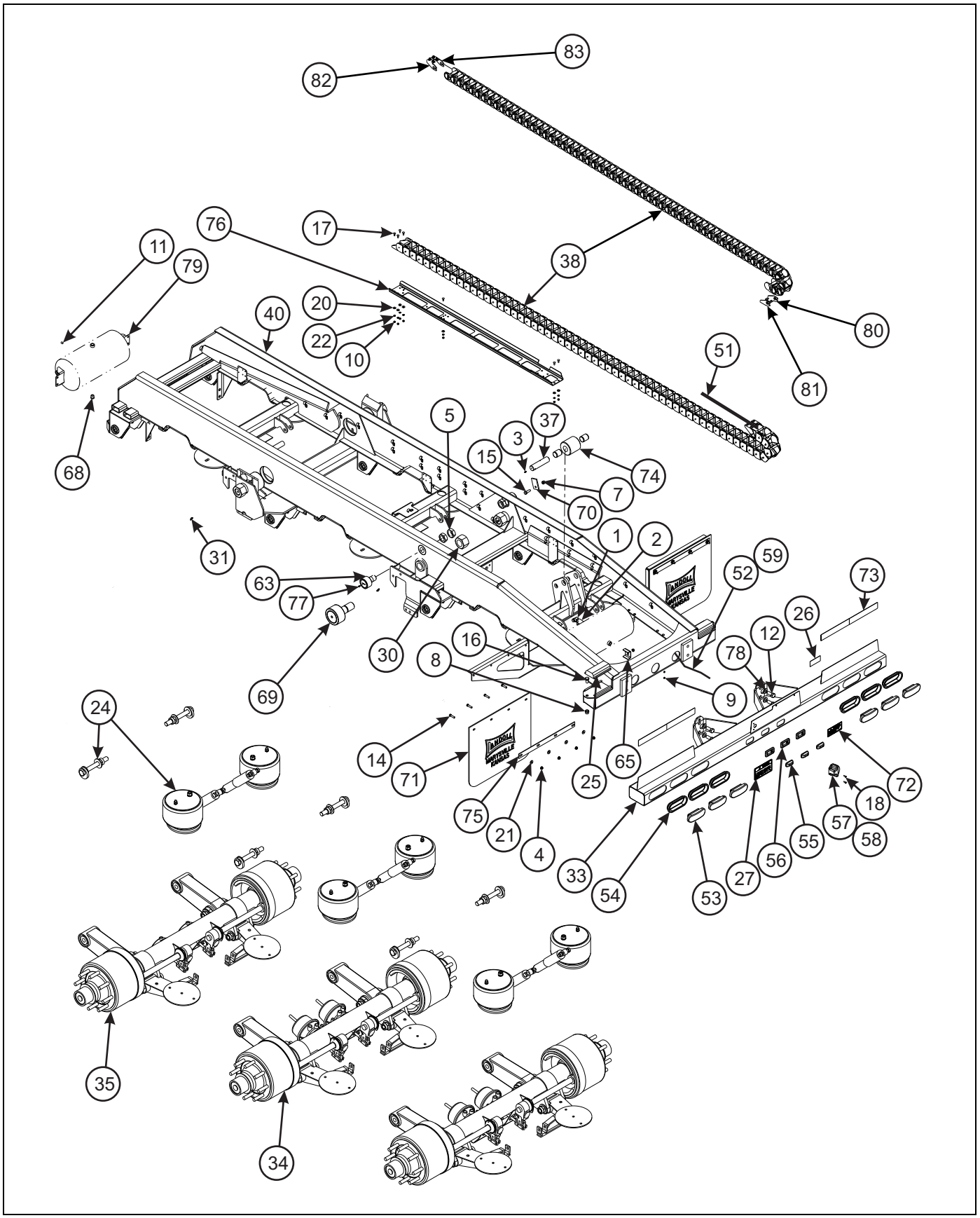


Figure 2-22: U/C Assembly, Air Ride Suspension (410)
(1 of 4)

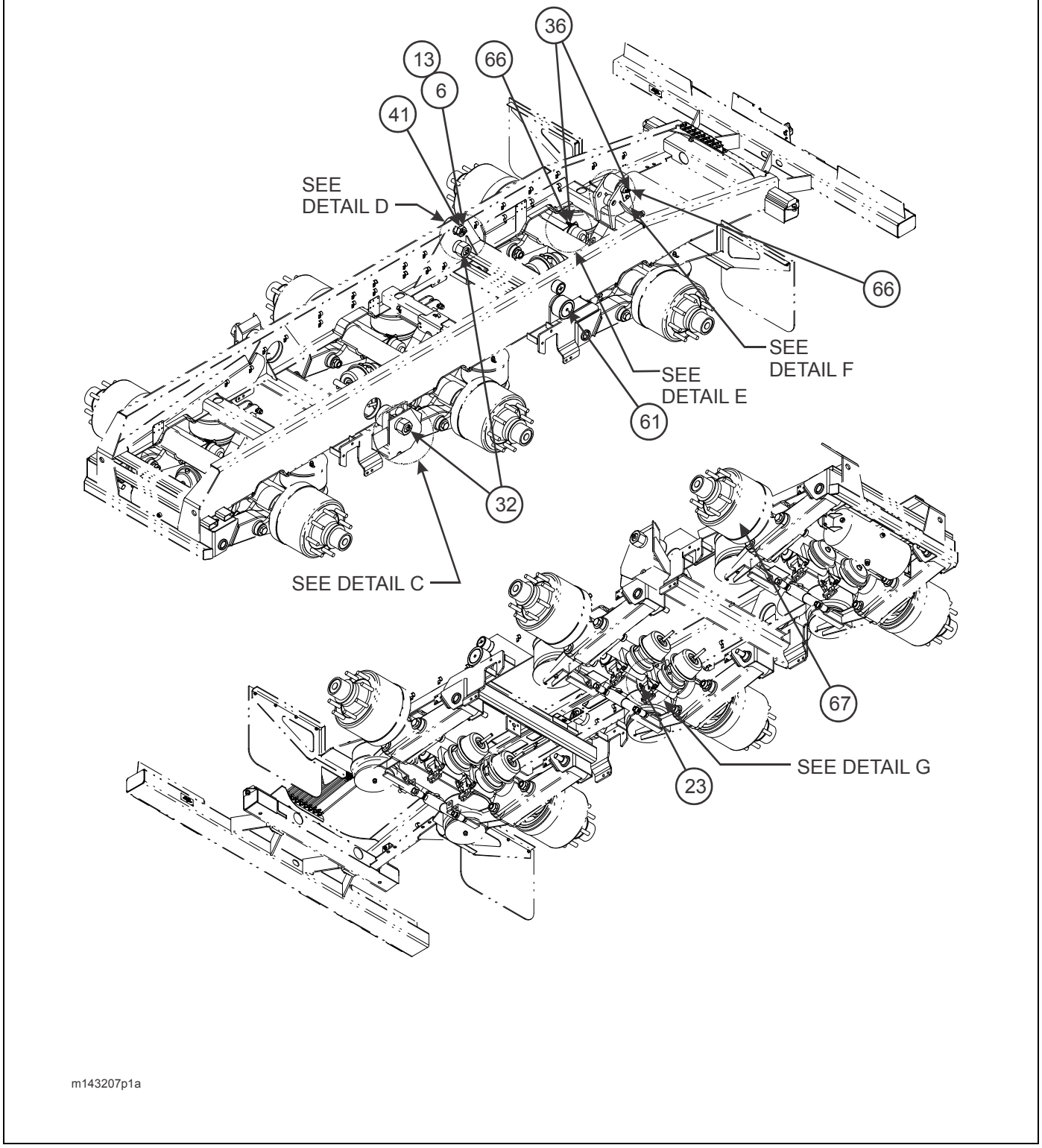


Figure 2-23: U/C Assembly, Air Ride Suspension (410)
(2 of 4)

FRT OTR CAMSHAFT	FRT INR CAMSHAFT	FRT SLACK
FRT CAM FOLLOWER	REAR CAM FOLLOWER	
REAR OTR CAMSHAFT	REAR INR CAMSHAFT	REAR SLACK
CTR OTR CAMSHAFT	CTR INR CAMSHAFT	CTR SLACK
CENTER ROLLER	HOLD-DOWN CAMFOLLOWER	REAR ROLLER
LEFT SIDE	RIGHT SIDE	142553

	FRT OTR CAMSHAFT	FRT INR CAMSHAFT	FRT SLACK	FRT CAM FOLLOWER	FRT CAM FOLLOWER	FRT SLACK	FRT INR CAMSHAFT	FRT OTR CAMSHAFT
CTR OTR CAMSHAFT	CTR INR CAMSHAFT	CTR SLACK	HOLD-DOWN CAMFOLLOWER	REAR ROLLER	HOLD-DOWN CAMFOLLOWER	CTR SLACK	CTR INR CAMSHAFT	CTR OTR CAMSHAFT
	REAR OTR CAMSHAFT	REAR INR CAMSHAFT	REAR SLACK	REAR CAM FOLLOWER	REAR CAM FOLLOWER	REAR SLACK	REAR INR CAMSHAFT	REAR OTR CAMSHAFT
		LEFT SIDE		143688		RIGHT SIDE		

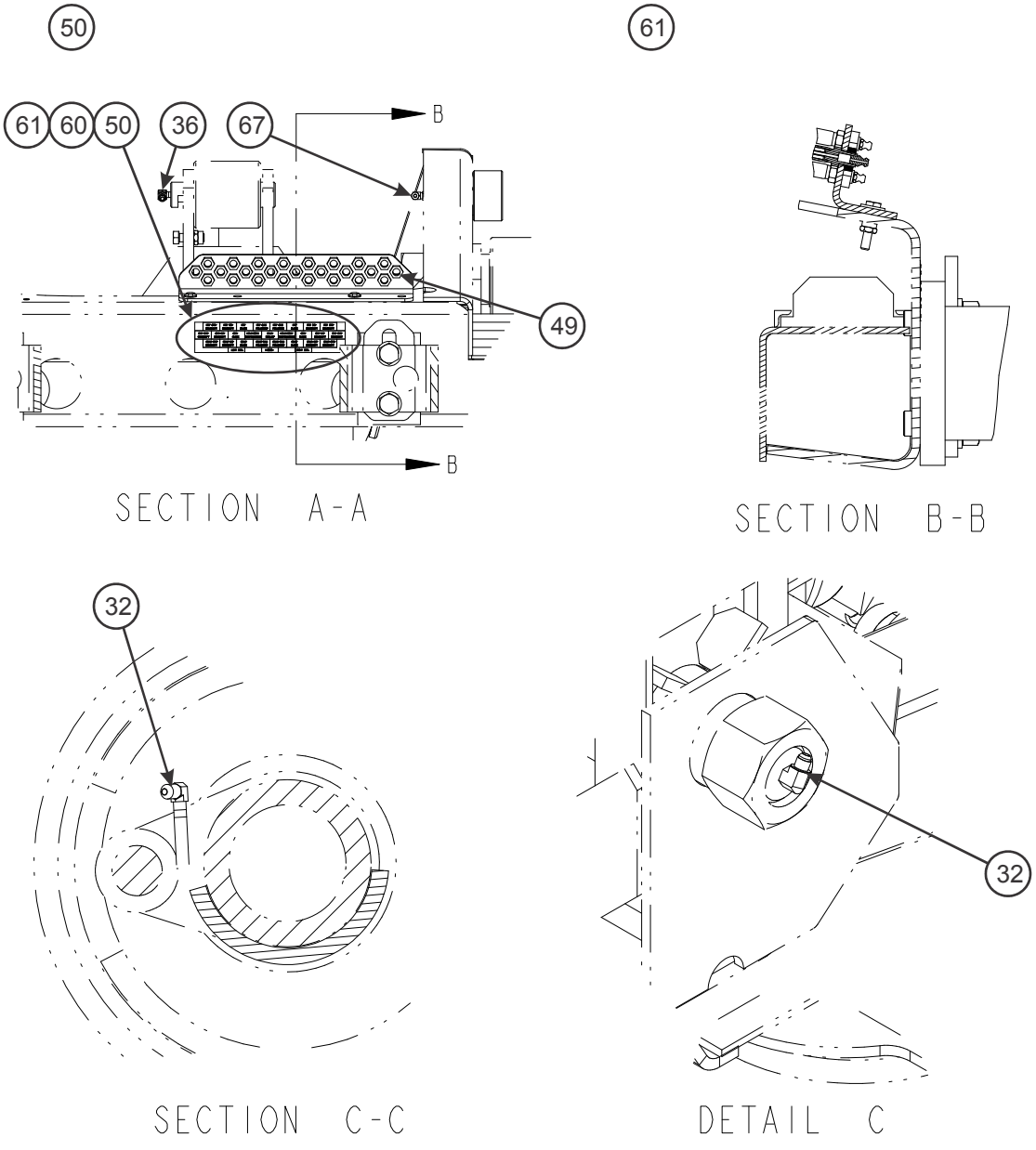


Figure 2-24: U/C Assembly, Air Ride Suspension (410)
(3 of 4)

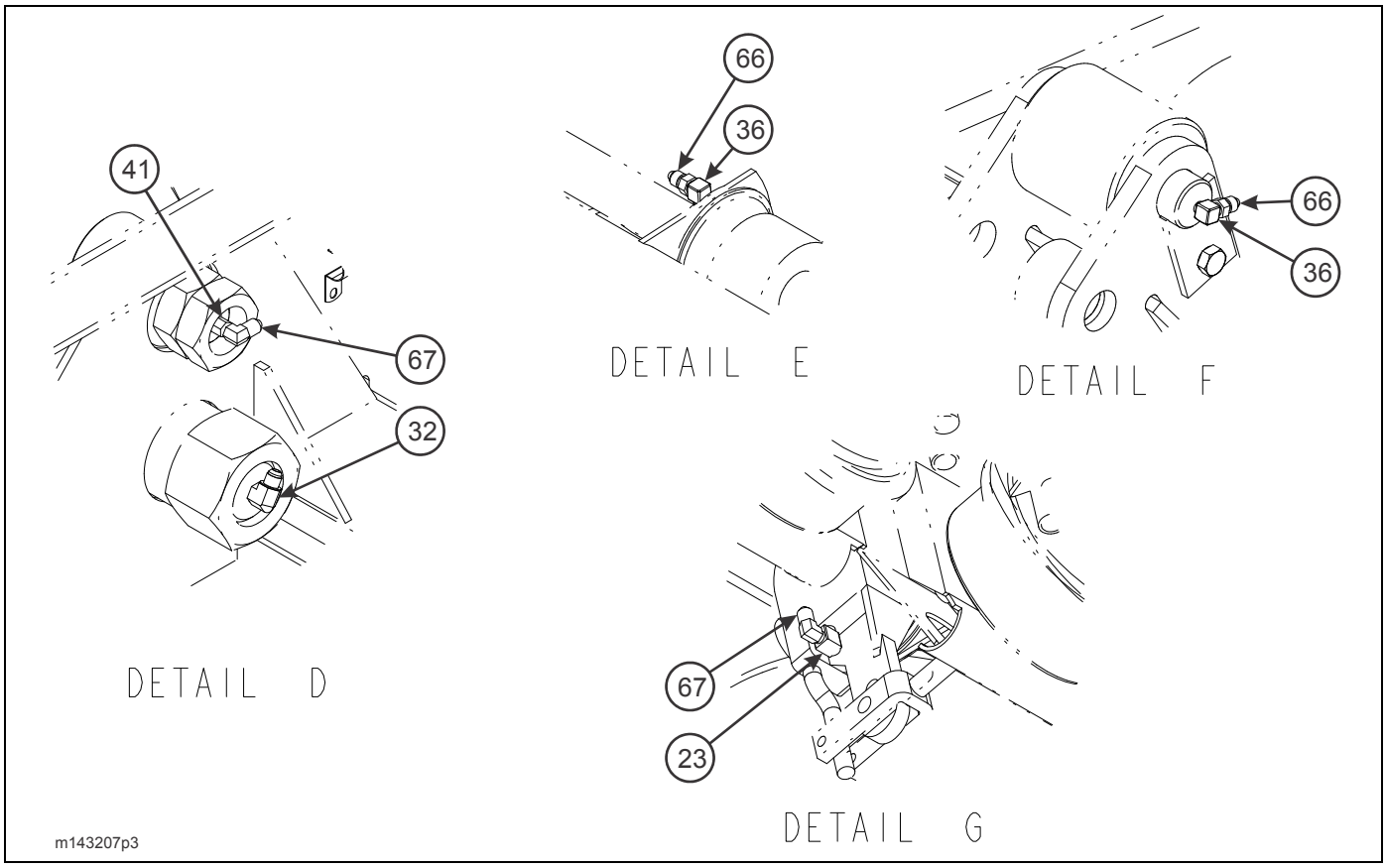


Figure 2-25: U/C Assembly, Air Ride Suspension (410)
(4 of 4)

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (410)

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	AIR RIDE SUSPENSION 410	
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	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
6	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
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	1-512-010007-03	NUT, HEX 10-24 GRB	2
10	1-512-010007-05	NUT, HEX 1/4-20 GRB	10
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	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
14	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
15	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	1
16	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
17	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	10
18	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	2
19	1-843-010014	VALVE EXTENSION, STEM (SEE PAGE 2-64)	6
20	1-861-010032-07	WASHER, FLAT 1/4	10

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (410)

ITEM	PART NO.	DESCRIPTION	QTY.
21	1-861-010032-11	WASHER, FLAT 3/8W	8
22	1-861-010034-09	WASHER, SPLIT LOCK 1/4	10
23	101528	ELBOW, BRASS PIPE STREET	6
24	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 2-54)	3
25	102698	NYLATRON RUB PLATE	2
26	103055	DECAL, ENERGY BUMPER CERT	1
27	103056	DECAL, ENERGY BUMPER WARNING	1
28	103084	SUSP. AIR SYS TRIDEM (SEE PAGE 2-50)	1
29	103816	AIR SYSTEM, U/C ABS TRI. (SEE PAGE 2-59)	1
30	104034	NUT, HEX 2-12 GRB	4
31	110-4950	FITTING, GREASE 1/4	4
32	113268	ADAPTER, 90	4
33	119580	BUMPER WELDMENT E/P 102	1
34	121077	AXLE WELDMENT A/R 2512 SPG 70.5 X 36	2
35	121078	AXLE WELDMENT A/R 2512 SER 70.5 X 36 (FOR BREAKDOWN, SEE PAGE 2-55)	1
36	121355	ELBOW, 90	7
37	121686	PIN, 1-1/2 X 6-1/4	1
38	122536	SUPPORT E-CHAIN 410 **(BEFORE 6-3-2015)**	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0) **(BEFORE 6-3-2015)**	58
	189318	SUPPORT E-CHAIN, 58 LINKS **(AFTER 6-3-2015)**	1
39	126537	DOCK LEVEL ASSEMBLY 120K (SEE PAGE 2-118)	1
	121498	DOCK LEVEL ASSEMBLY SINGLE 60K (SEE PAGE 2-116)	1
40	128672	SUSPENSION WELDMENT	1
41	131590	FITTING, BRASS PIPE ADAPTER	2
42*	142441	HOSE ASSEMBLY, GREASE 1/8 X 45	1
43*	142442	HOSE ASSEMBLY, GREASE 1/8 X 60	4
44*	142443	HOSE ASSEMBLY, GREASE 1/8 X 72	2
45*	142444	HOSE ASSEMBLY, GREASE 1/8 X 83	4
46*	142446	HOSE ASSEMBLY, GREASE 1/8 X 118	4
47*	142447	HOSE ASSEMBLY, GREASE 1/8 X 126	2
48*	142454	HOSE ASSEMBLY, GREASE 1/8 X 200	2
49	142545	NUT, 7/16	25
50	142553	DECAL, GREASE TRAILER U/C	2
51	143103	HARNESS, E-CHAIN	1
52	143104	HARNESS, BUMPER	1
53	143113	LIGHT, RED LED OVAL STT	6
54	143114	GROMMET, OVAL	6
55	143115	LIGHT, RED LED RECT CL	3
56	143116	GROMMET, RECT	3
57	143117	LIGHT, CLEAR LED LICENSE	1
58	143118	BRACKET, LIGHT LICENSE	1
59	143122	CLAMP, HARNESS	1
60	143182	BRACKET, GREASE HOSE	1
61	143688	DECAL, GREASE	1
62*	144614	HOSE ASSEMBLY, GREASE 1/8 X 172	2
63	145014	CAM FOLLOWER 3" MOD GREASE (PRIOR 07/01/2007)	2
	145532	CAM FOLLOWER 3" SEALED (AFTER 07/01/2007)	2
64*	145416	HOSE ASSEMBLY, GREASE 1/8 X 186	4

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (410)

ITEM	PART NO.	DESCRIPTION	QTY.
65	2-181-010001	CLAMP, HOSE	1
66	2021-2-4	ADAPTER, STRAIGHT	7
67	2024-2-4S	ADAPTER, ELBOW	14
68	2081-8-4S	REDUCER	1
69	3-076-010015	CAM FOLLOWER 5" DIA	4
70	3-187-010013	CLIP, PIN RETAINER	1
71	3-485-010001	MUD FLAP, 21"	2
72	3-573-010031	DECAL, TRAILER BUMPER	1
73	3-573-010377	DECAL, 2" REFLEXITE TAPE RED/WHITE	AR
74	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
75	3-762-010017	CLAMP, MUD FLAP	2
76	3-821-010005	TRAY, CAT TRACK	1
77	5029	ZERK, 1/4 STR DRIVE -IN	2
78	622-3511-008	WASHER, 3/4N	4
79	3-780-010002	TANK, AIR	REF
80	190701	BRACKET WLDMT, E-CHAIN LH **(AFTER 6-3-2015)**	1
81	190706	BRACKET WLDMT, E-CHAIN RH **(AFTER 6-3-2015)**	1
82	190700ZP	BRACKET, E-CHAIN LH **(AFTER 6-3-2015)**	1
83	190705ZP	BRACKET, E-CHAIN RH **(AFTER 6-3-2015)**	1
	189383	FIELD ISTALLATON KIT **(ITEMS 38 & 80-83)**	1

* SEE TABLE BELOW FOR HOSE LOCATIONS

GREASE HOSE LOCATION, P/N, AND LENGTH

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
42	TO REAR ROLLER	142441	-----	45"
43	TO REAR SLACK	142442	142442	60"
43	TO REAR INNER CAMSHAFT	142442	142442	60"
44	TO REAR OUTER CAMSHAFT	142443	142443	72"
45	TO 3" CAM FOLLOWER (PRIOR 07/01/2007)	142444	142444	83"
45	TO REAR 5" CAM FOLLOWER	142444	142444	83"
46	TO MID INNER CAMSHAFT	142446	142446	118"
46	TO MID SLACK	142446	142446	118"
47	TO MID OUTER CAMSHAFT	142447	142447	126"
48	TO FRONT OUTER CAMSHAFT	142454	142454	200"
62	TO FRONT 5" CAM FOLLOWER	144614	144614	172"
64	TO FRONT INNER CAMSHAFT	145416	145416	186"
64	TO FRONT SLACK	145416	145416	186"

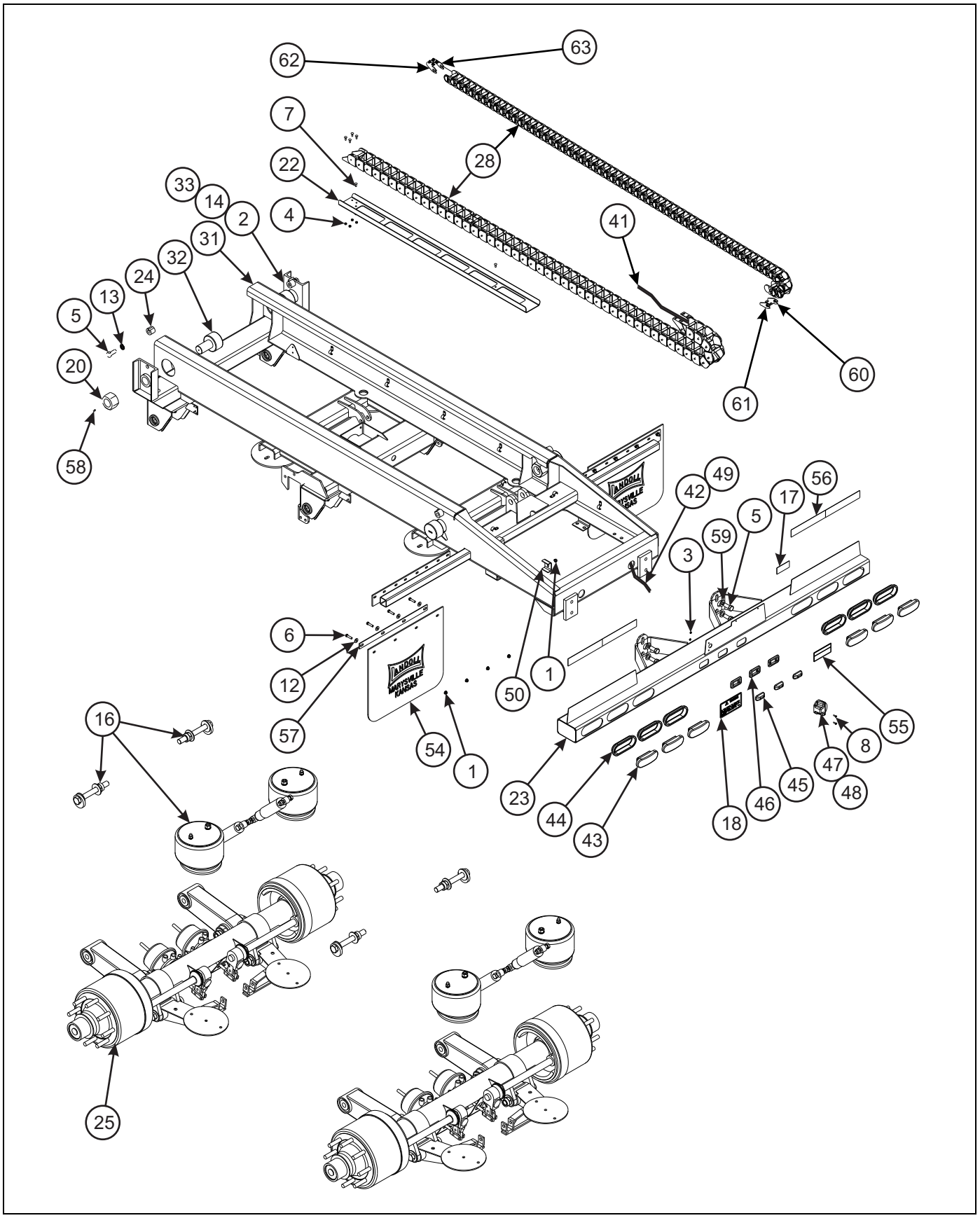


Figure 2-26: U/C Assembly, Air Ride Suspension (425 & 435)
(1 of 4)

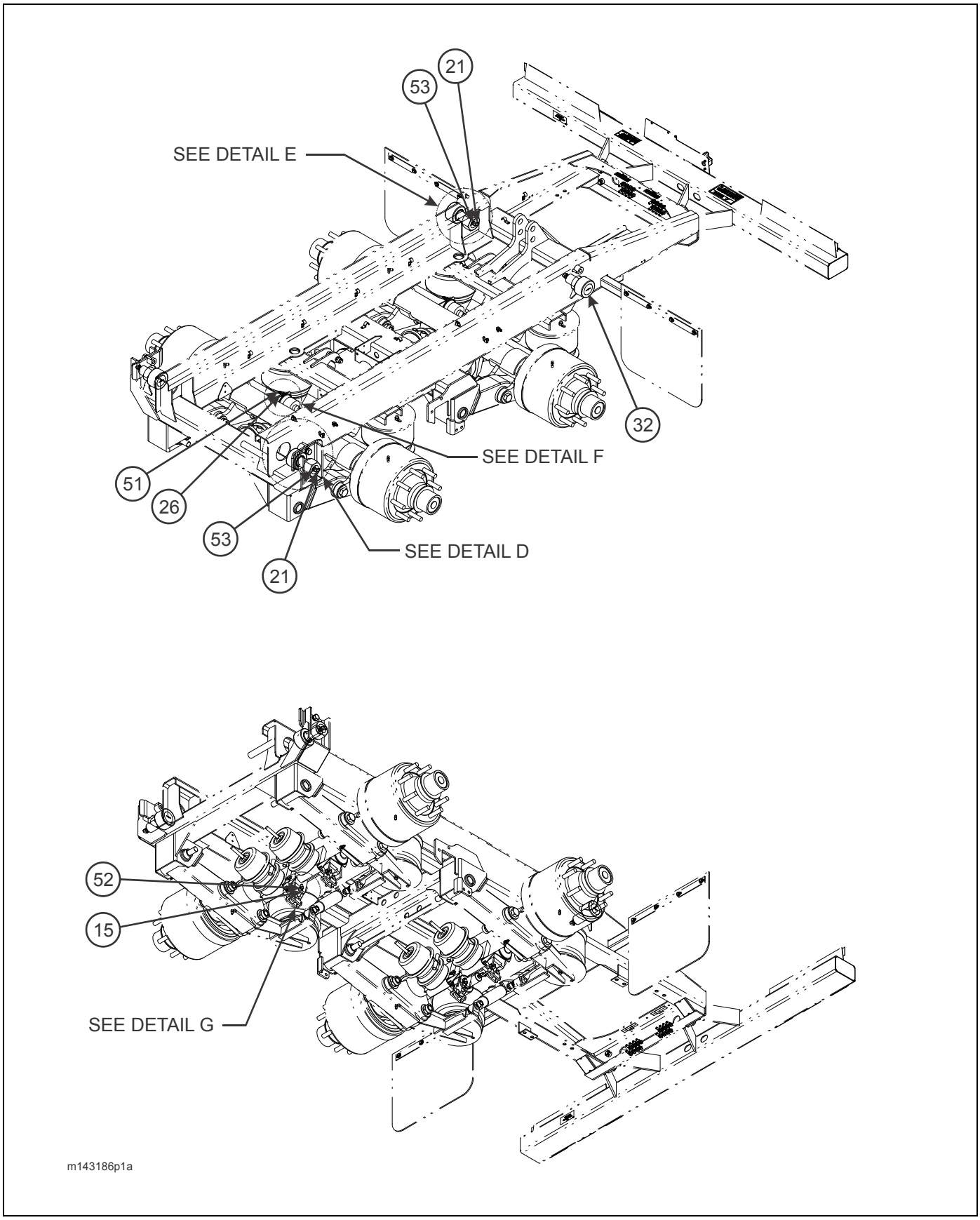


Figure 2-27: U/C Assembly, Air Ride Suspension (425 & 435)
(2 of 4)

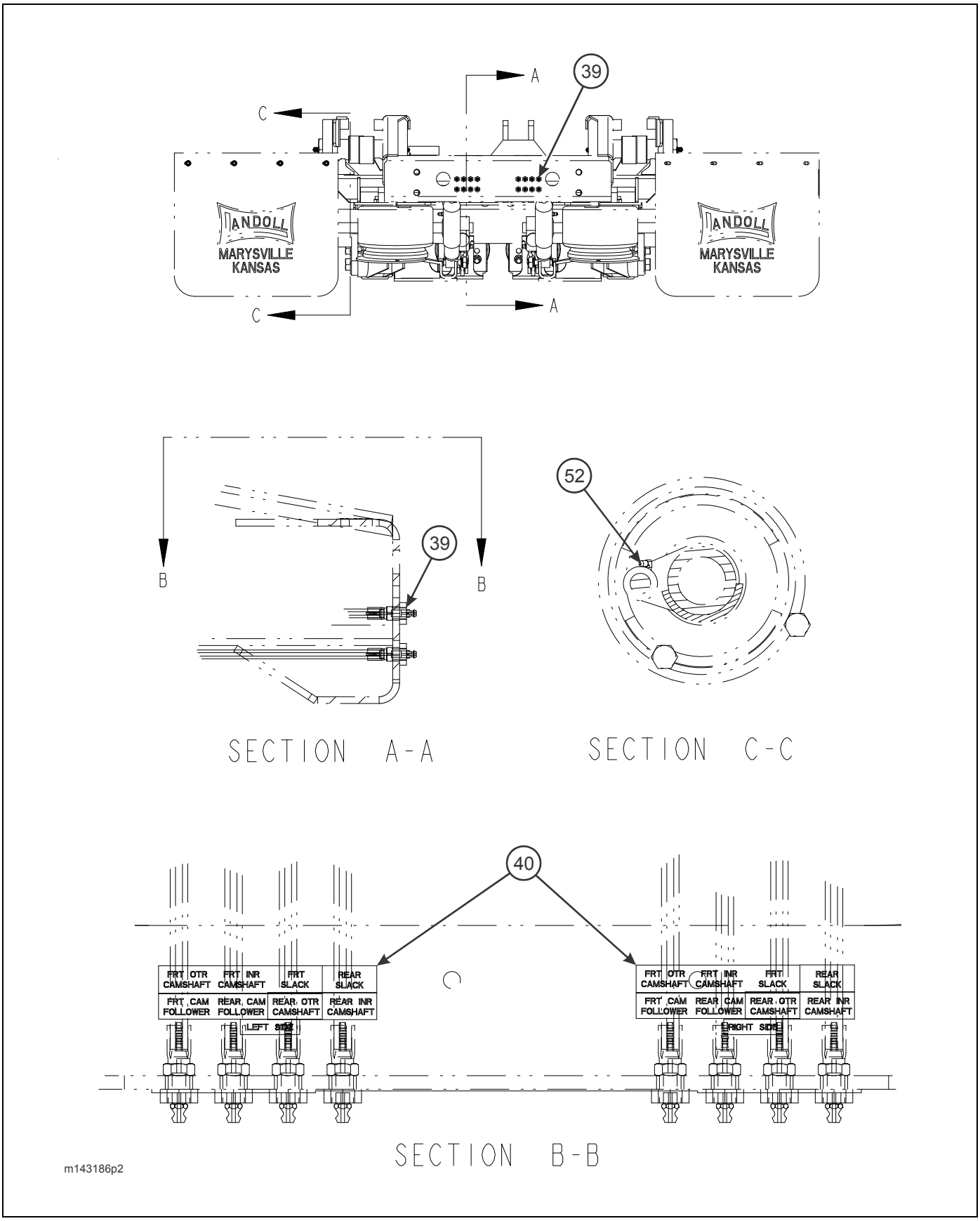


Figure 2-28: U/C Assembly, Air Ride Suspension (425 & 435)
(3 of 4)

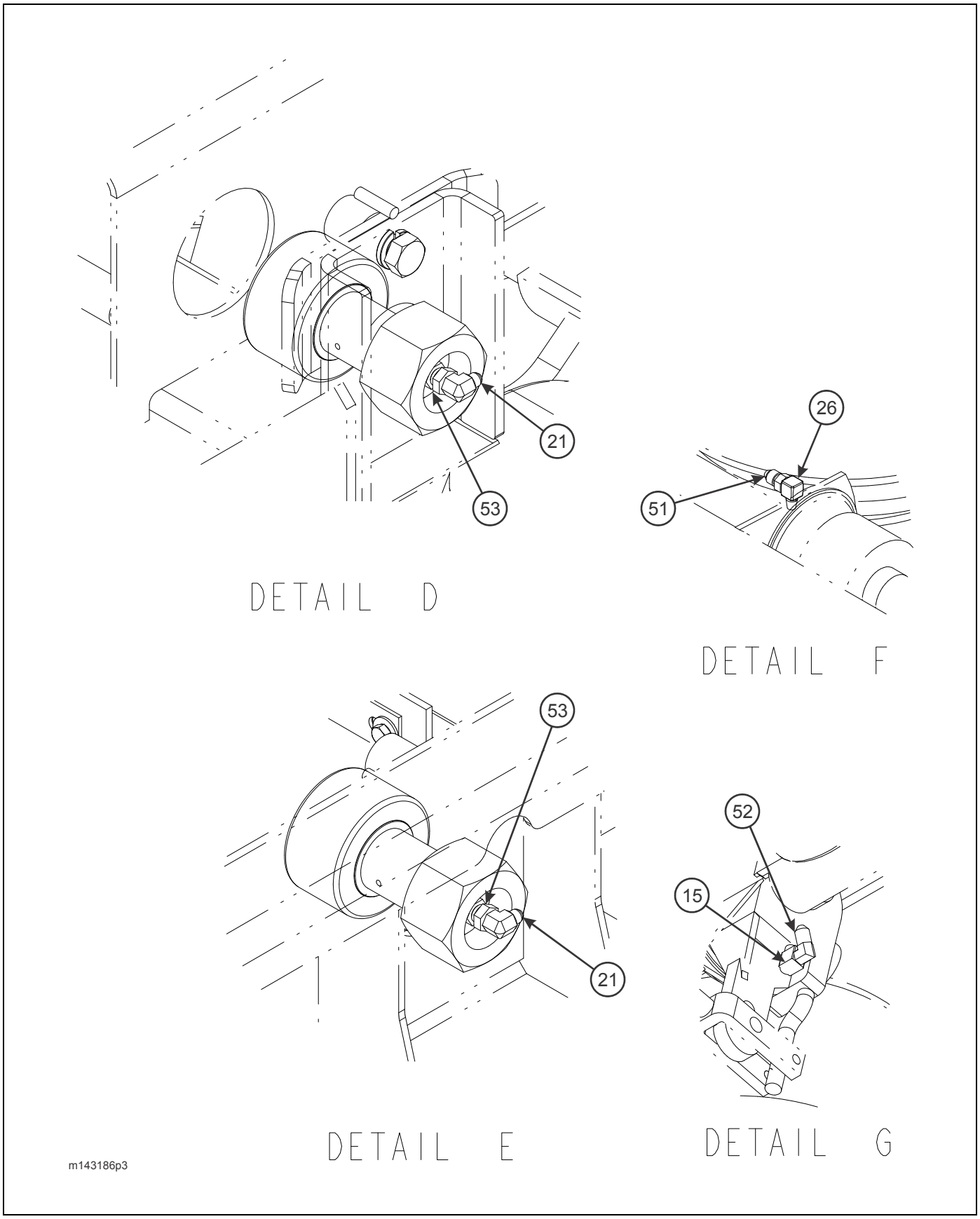


Figure 2-29: U/C Assembly, Air Ride Suspension (425 & 435)
(4 of 4)

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (425 & 435)

ITEM	PART NO.	DESCRIPTION	QTY.
	-----	SUSPENSION U/C ASSEMBLY A/R ABS 2512-70.5 D/L	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
3	1-512-010007-03	NUT, HEX 10-24 GRB	2
4	1-512-010007-05	NUT, HEX 1/4-20 GRB	6
5	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	8
6	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
7	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
8	1-656-010003051	SCREW, RD HEAD MACH 10-24 X 3/4	2
9	1-796-010003-02	TIE STRAP, PLASTIC (NOT SHOWN)	10
10	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	4
11	1-843-010014	VALVE EXTENSION, STEM (SEE PAGE 2-64)	4
12	1-861-010032-11	WASHER, FLAT 3/8W	8
13	1-861-010034-17	WASHER, SPLIT LOCK 3/4	4
14	100941	SCREW, HEX HEAD CAP 3/4-10 X 2-1/4 GR8	2
15	101528	ELBOW, BRASS PIPE STREET	4
16	102363	SUSP ADJ RLU-228-3.5 (SEE PAGE 2-54)	2
17	103055	DECAL, ENERGY BUMPER CERT	1
18	103056	DECAL, ENERGY BUMPER WARNING	1
19	103082	SUSPENSION, AIR RLU A/R TANDEM (SEE PAGE 2-48)	1
20	104034	NUT, HEX 2-12 GR2	4
21	113268	ADAPTER 90	4
22	118897	TRAY, E-CHAIN	1
23	119580	BUMPER WELDMENT E/P 102	1
24	3-762-010016	HOLD DOWN UNDERCARRIAGE WELDMENT	4
25	121077	AXLE WELDMENT A/R 2512 SPG 70.5 X 36 (FOR BREAKDOWN, SEE PAGE 2-55)	2
26	121355	ELBOW, 90	4
27	121498	DOCK LEVELER ASSEMBLY (SEE PAGE 2-116)	1
28	122536	SUPPORT E-CHAIN (435) **(BEFORE 6-3-2015)**	1
	3-755-010189	SUPPORT E-CHAIN (425) **(BEFORE 6-3-2015)**	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0) **(BEFORE 6-3-2015)**	*58, 48
	189318	SUPPORT E-CHAIN, 58 LINKS **(AFTER 6-3-2015)**	1
29	124559	SPACER, D/L MOUNT (NOT SHOWN)	8
30	127579	AIR SYSTEM, U/C 435 ABS (SEE PAGE 2-59)	1
31	130556	UNDERCARRIAGE WELDMENT	1
32	137279	CAM FOLLOWER 4" MOD GREASE	4
33	140829	PLATE, WEAR U/C	2
34*	142441	HOSE ASSEMBLY GREASE X 45 (435)	2
	142442	HOSE ASSEMBLY GREASE X 60 (435-CA)	2
35*	142443	HOSE ASSEMBLY GREASE X 72 (435)	6
	144613	HOSE ASSEMBLY GREASE X 88 (435-CA)	6
36*	142446	HOSE ASSEMBLY GREASE X 118 (435)	4
	142448	HOSE ASSEMBLY GREASE X 133 (435-CA)	4
37*	142447	HOSE ASSEMBLY GREASE X 126 (435)	2
	142450	HOSE ASSEMBLY GREASE X 144 (435-CA)	2
38*	142451	HOSE ASSEMBLY GREASE X 156 (435)	2

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (425 & 435)

ITEM	PART NO.	DESCRIPTION	QTY.
	144614	HOSE ASSEMBLY GREASE X 172 (435-CA)	2
39	142545	NUT, 7/16	16
40	142553	DECAL, GREASE U/C	2
41	143103	HARNESS ASSEMBLY, E-CHAIN	1
42	143104	HARNESS ASSEMBLY, BUMPER	1
43	143113	LIGHT, RED LED OVAL STT	6
44	143114	GROMMMET, OVAL	6
45	143115	LIGHT, RED LED RECT CL	3
46	143116	GROMMET RECT	3
47	143117	LIGHT, CLEAR LED LICENSE	1
48	143118	BRACKET, LIGHT LICENSE	1
49	143122	CLAMP, HARNESS	1
50	2-181-010001	CLAMP, HOSE	1
51	2021-2-4	ADAPTER, STRAIGHT	4
52	2024-2-4S	ADAPTER, ELBOW	8
53	2045-4-4S	ADAPTER, SWIVEL	4
54	3-485-010001	MUD FLAP, 21"	2
55	3-573-010031	DECAL, TRAILER BUMPER	1
56	3-573-010377	DECAL, 2" REFLEXITE TAPE RED/WHITE	AR
57	3-762-010017	CLAMP, MUD FLAP	2
58	5029	ZERK, 1/4 STR DRIVE -IN	4
59	622-3511-008	WASHER, 3/4N	4
60	190701	BRACKET WLDMT, E-CHAIN LH **(AFTER 6-3-2015)**	1
61	190706	BRACKET WLDMT, E-CHAIN RH **(AFTER 6-3-2015)**	1
62	190700ZP	BRACKET, E-CHAIN LH **(AFTER 6-3-2015)**	1
63	190705ZP	BRACKET, E-CHAIN RH **(AFTER 6-3-2015)**	1
	189383	FIELD INSTALLATION KIT **(ITEMS 28 & 60-63)**	1

* SEE TABLES BELOW FOR HOSE LOCATIONS

GREASE HOSE LOCATION, P/N, AND LENGTH (425/435)

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
34	TO REAR FOLLOWER	142441	142441	45"
35	TO REAR INNER CAMSHAFT	142443	142443	72"
35	TO REAR OUTER CAMSHAFT	142443	142443	72"
35	TO REAR SLACK	142443	142443	72"
36	TO FRONT INNER CAMSHAFT	142446	142446	118"
36	TO FRONT SLACK	142446	142446	118"
37	TO FRONT OUTER CAMSHAFT	142447	142447	126"
38	TO FRONT FOLLOWER	142451	142451	156"

GREASE HOSE LOCATION, P/N, AND LENGTH (425/435-CA)

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
34	TO REAR FOLLOWER	142442	142442	60"
35	TO REAR INNER CAMSHAFT	144613	144613	88"

GREASE HOSE LOCATION, P/N, AND LENGTH (425/435-CA)

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
35	TO REAR OUTER CAMSHAFT	144613	144613	88"
35	TO REAR SLACK	144613	144613	88"
36	TO FRONT INNER CAMSHAFT	142448	142448	133"
36	TO FRONT SLACK	142448	142448	133"
37	TO FRONT OUTER CAMSHAFT	142450	142450	144"
38	TO FRONT FOLLOWER	144614	144614	172"

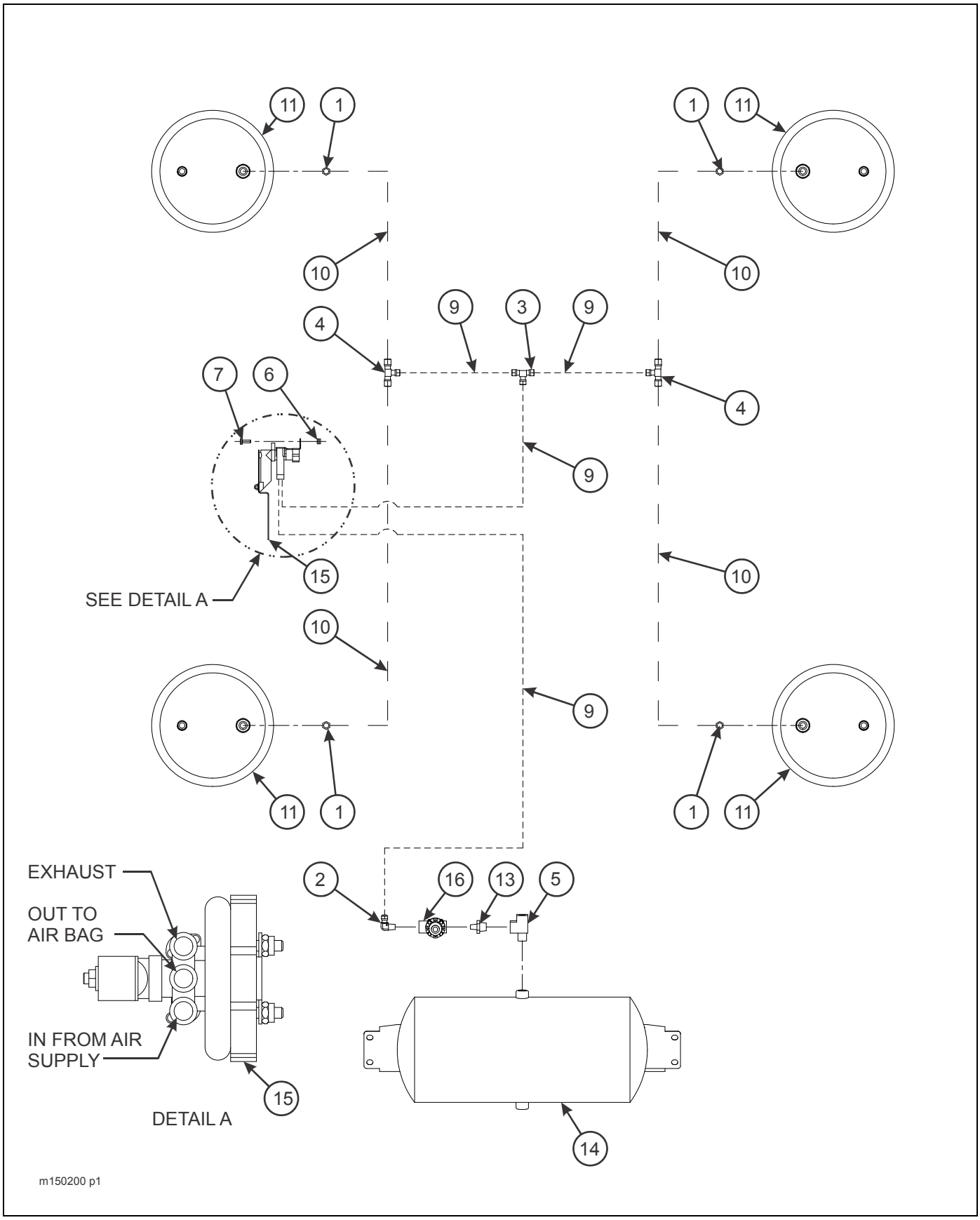


Figure 2-30: Air Ride Suspension, Air System (Tandem)

AIR RIDE SUSPENSION AIR SYSTEM (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
	103082	AIR RIDE, AIR SYSTEM (TANDEM)	
1	1-297-010007-11	FITTING AIR	4
2	1-297-010008-07	FITTING AIR 90	1
3	1-297-010010-01	FITTING AIR UNION TEE	1
4	1-297-010010-04	FITTING AIR UNION TEE	2
5	1-297-010018-04	FITTING BRASS PIPE STREET TEE	1
6	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2
7	1-654-010047-04	SCREW HEX HEAD CAP 1/4-20 X 3/4 GR5	2
8	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	15
9	1-833-010001	TUBING NYLON 1/4 OD	AR
10	1-833-010002	TUBING NYLON 3/8 OD	AR
11	102363	SUSPENSION, ADJ RLU-228-3.5 (SEE PAGE 2-54)	REF
12	102732	AIR CONTROL KIT NEWAY (INCL ITEMS 15 & 16) (SEE PAGE 2-52)	1
13	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
14	3-780-010002	TANK AIR	REF
15	900 54 007	HEIGHT CONTROL VALVE	REF
16	905-54-107	BRAKE PROTECTION VALVE	REF
	167692	FILTER	1

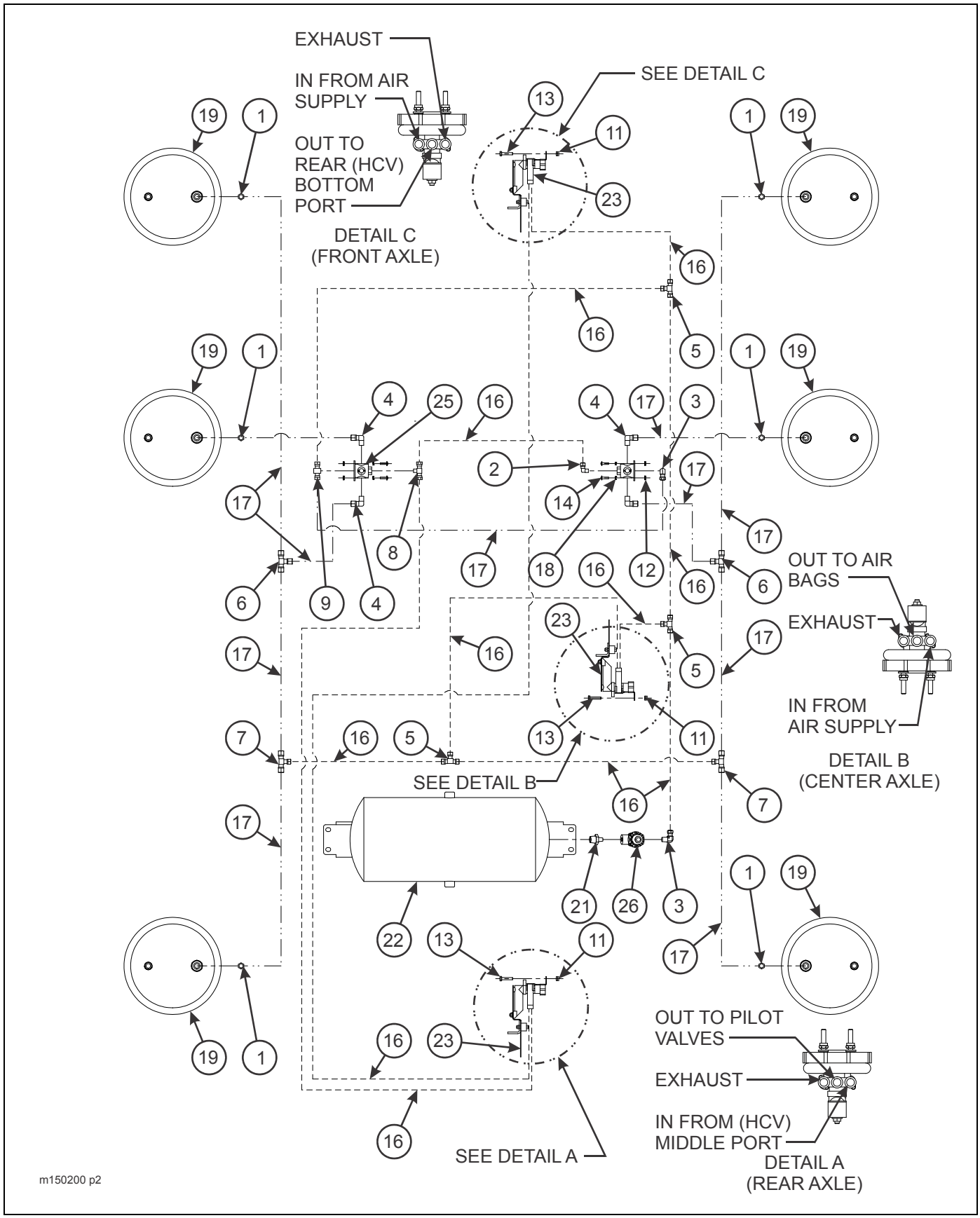


Figure 2-31: Air Ride Suspension, Air System (Triple)

AIR RIDE SUSPENSION AIR SYSTEM (TRIPLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	103084	AIR RIDE, AIR SYSTEM (TRIPLE)	
1	1-297-010007-11	FITTING AIR	6
2	1-297-010008-05	FITTING AIR 90	1
3	1-297-010008-07	FITTING AIR 90	2
4	1-297-010008-18	FITTING AIR 90	4
5	1-297-010010-01	FITTING AIR UNION TEE	3
6	1-297-010010-03	FITTING AIR UNION TEE 3/8	2
7	1-297-010010-04	FITTING AIR UNION TEE	2
8	1-297-010015-02	FITTING AIR BRANCH TEE	1
9	1-297-010015-03	FITTING AIR BRANCH TEE	1
11	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	6
12	1-512-010007-03	NUT HEX 10-24	8
13	1-654-010047-04	SCREW HEX HEAD CAP 1/4-20 X 3/4 GR5	6
14	1-656-010003051	SCREW RH HD MACH #10-24 X 3/4	8
15	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	15
16	1-833-010001	TUBING NYLON 1/4 OD	AR
17	1-833-010002	TUBING NYLON 3/8 OD	AR
18	1-861-010034-07	WASHER SPLIT LOCK #10	8
19	102363	SUSPENSION, ADJ RLU-228-3.5 (SEE PAGE 2-54)	REF
21	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
22	3-780-010002	TANK AIR	REF
23	3-843-010034	VALVE AIR RIDE HEIGHT CONTROL	3
25	900-54-079	PILOT VALVE	2
26	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1

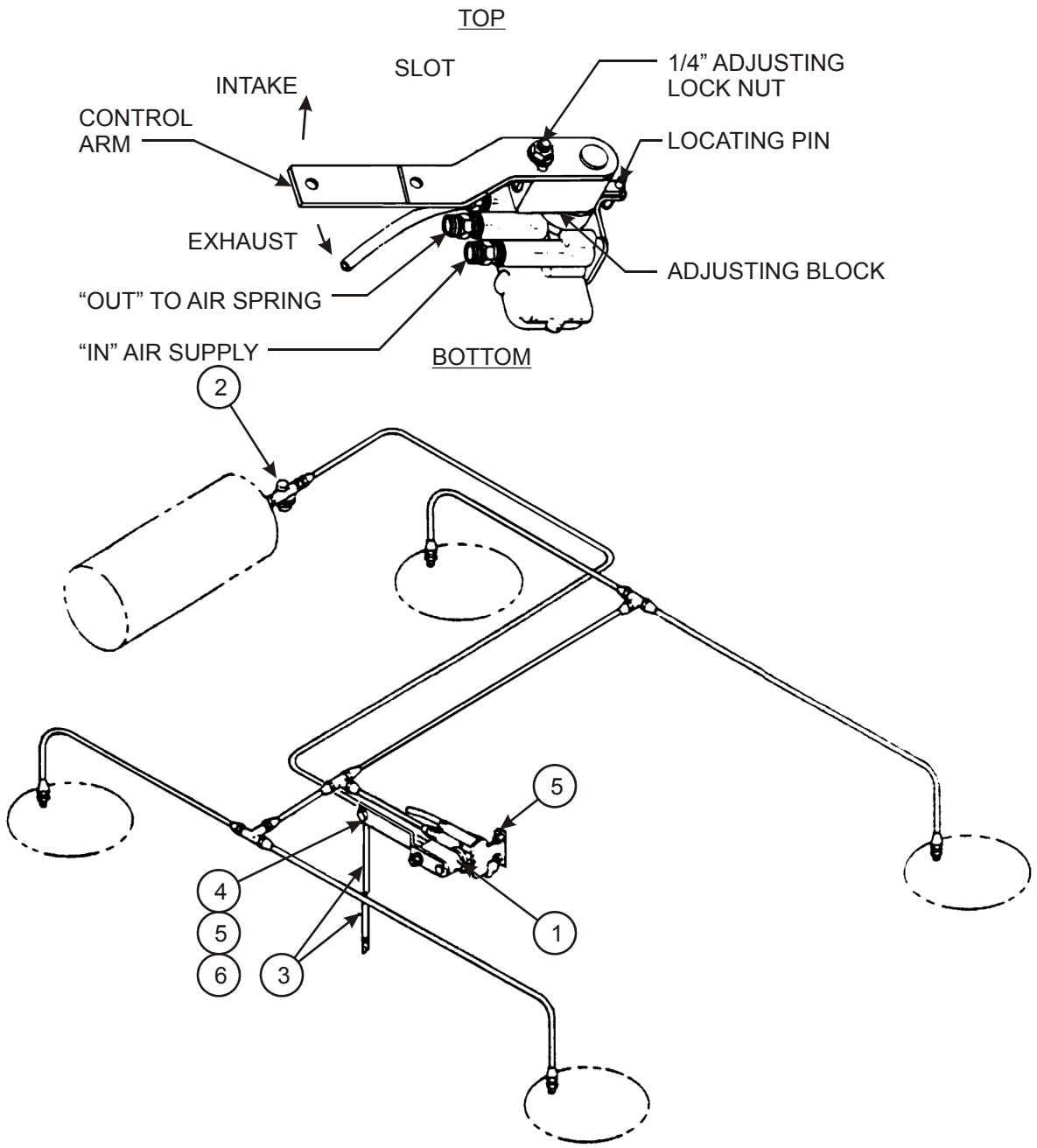


Figure 2-32: Air Control Kit

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
	167692	FILTER	1
3	111021	SRK - 167 KIT (ADJ. LINK ASSEMBLY)	1
4	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	-----	DECAL (OPERATING)	1

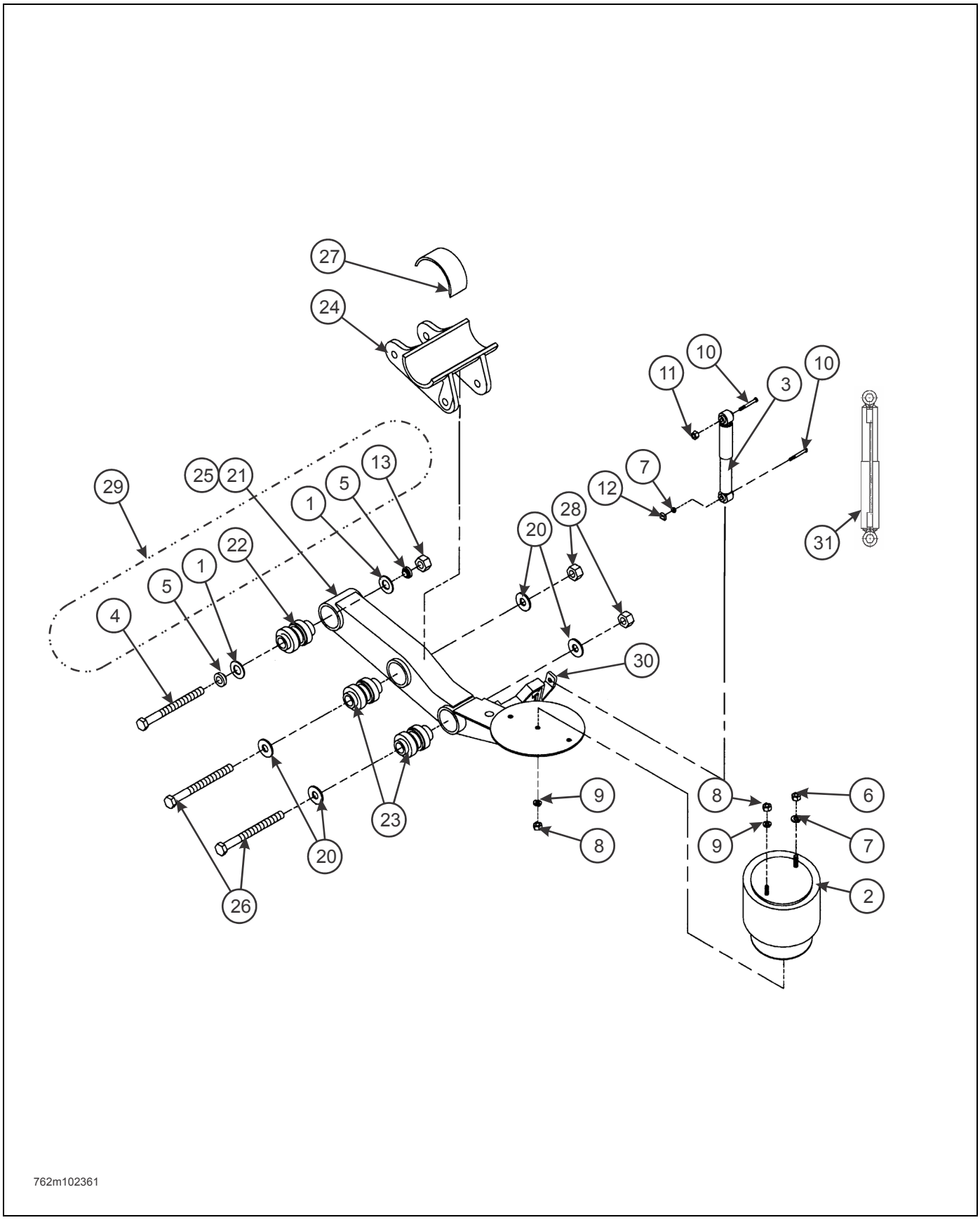


Figure 2-33: Suspension Hanger RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102364	SUSPENSION, ADJ. RLU-228-5.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228 (INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	905-57-129	AIR SPRING ASSEMBLY (102363)	2
	111016	AIR SPRING ASSEMBLY (102364)	2
3	900 45 040	SHOCK (102363)	2
	111017	SHOCK (102364)	2
4	90508009	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	-----	ROD BOLT	1
	-----	ALIGN BLOCK	1
5	900 08 186	ALIGN BLOCK (102363)	2
	111007	ALIGN BLOCK (102364)	2
6	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	HEX NUT, 1/2-13	4
9	1-861-010034-13	LOCK WASHER, 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934 00 492	LOCK NUT, 3/4-10	2
12	111022	3/4-10 SQUARE NUT	2
13	111008	LOCK NUT 1-1/8-7	2
14	111018	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	-----	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	-----	LITERATURE SPEC (NOT SHOWN)	1
17	-----	LITERATURE FORM 864 (NOT SHOWN)	1
18	-----	LITERATURE LABEL (NOT SHOWN)	1
19	-----	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
29	109533	ALIGNMENT BLOCK KIT	1
30	126900	BRACKET BOTTOM SHOCK (RLU-228)	1
31	141708	WIRE ROPE STRAP KIT RLU228-3.5	1
	127708	WIRE ROPE STRAP KIT RLU228-5.5	1

NOTE: QUANTITIES LISTED ARE PER AXLE.

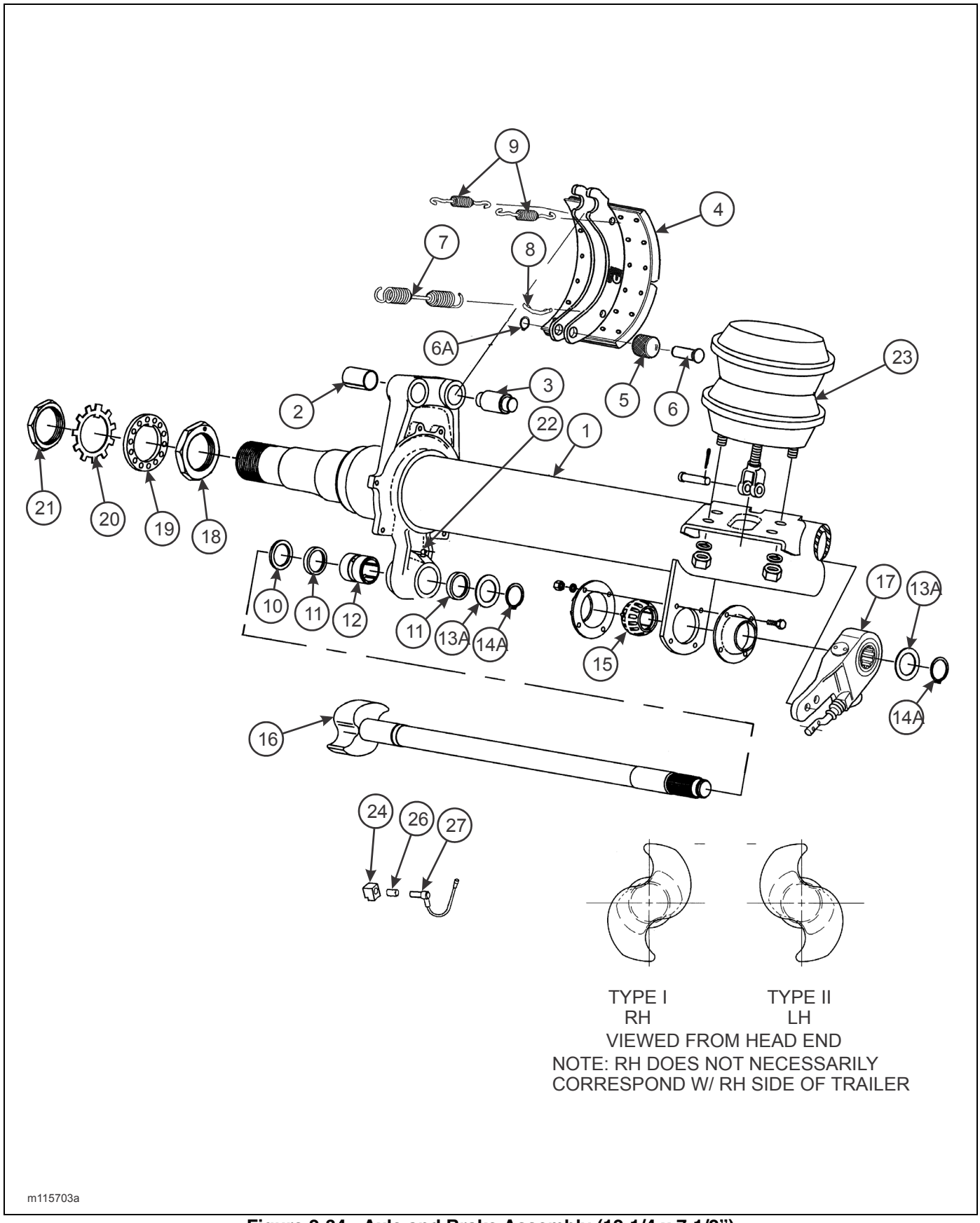


Figure 2-34: Axle and Brake Assembly (12-1/4 x 7-1/2")

AXLE AND BRAKE ITEMS (DEXTER) (12-1/4” X 7-1/2”)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115703		AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BRK (25K)	
	115708		AXLE 70-1/2, 12-1/4 X 7-1/2 SRVC BRK (25K)	
	**K71-460-00	**K71-460-00	BRAKE SHOE HARDWARE 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	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	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	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	046-097-00	KEEPER SPRING	4
	***K71-101-00	**K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
10***	005-074-00	005-074-00	D” WASHER - CAMSHAFT	2
11***	010-052-00	010-052-00	SEAL GREASE	4
12***	-----	014-056-00	BUSHING CAMSHAFT SPIDER	2
13A***	-----	005-134-00	WASHER CAMSHAFT END	2
14A***	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15***	-----	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-188-03	034-188-03	CAMSHAFT, 22-5/16” LH	1
	034-189-03	034-189-03	CAMSHAFT, 22-5/16” RH	1
	171963	034-188-09	CAMSHAFT, 26-1/2” LH	1
	171964	034-189-09	CAMSHAFT, 26-1/2” RH	1
17	156655	055-040-99	SLACK ADJUSTER, AUTOMATIC	2
18	006-114-00	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
22***	-----	061-006-00	FITTING, GREASE 45°	2
23	034-058-07	034-058-07	AIR CHAMBER, SPRING BRAKE	2
	034-057-07	034-057-07	AIR CHAMBER, SERVICE BRAKE	2
24	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	139287	094-007-00	ABS SENSOR, 90	2

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

** THESE PARTS ARE AVAILABLE AS PART OF 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 2-64

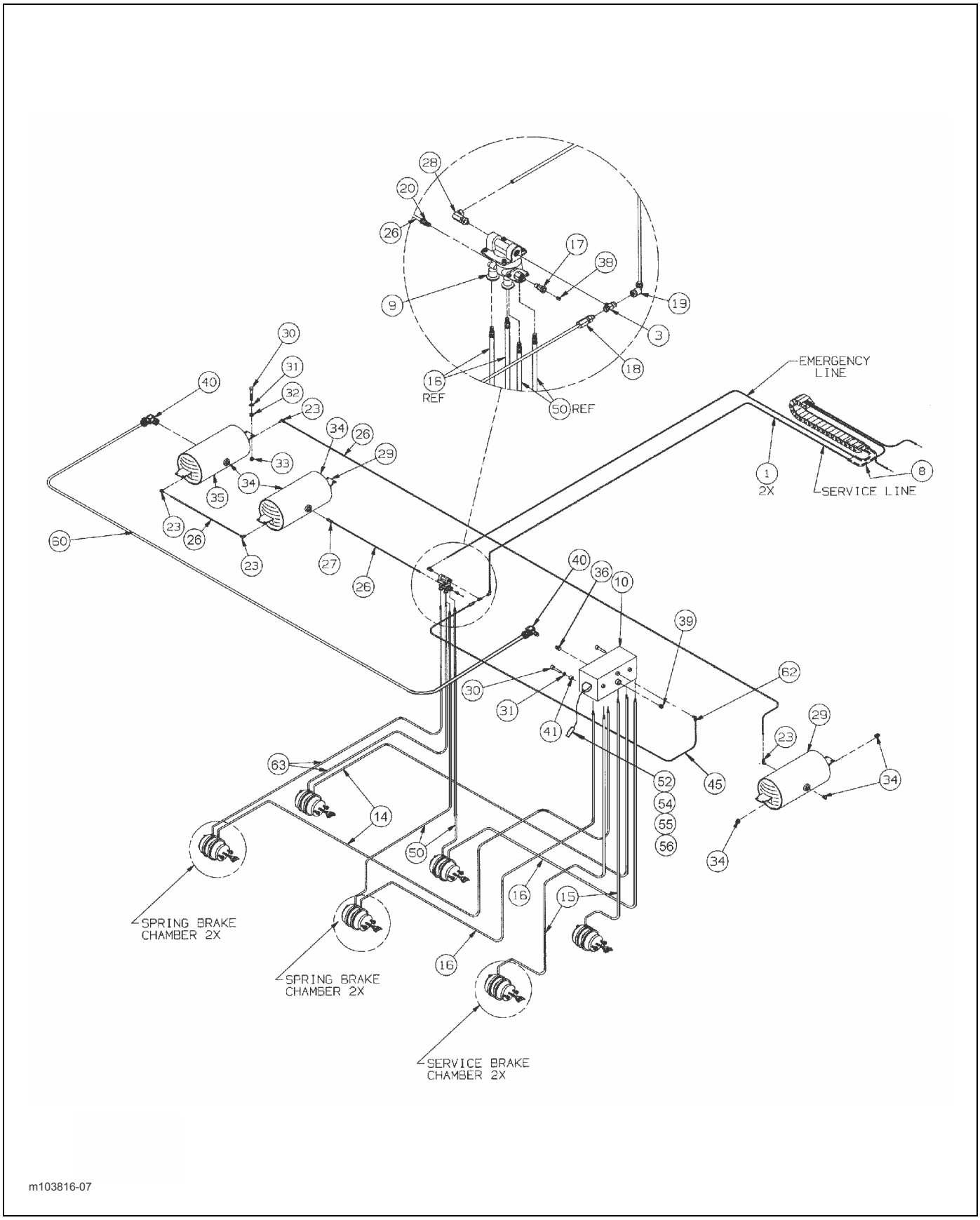


Figure 2-35: Spring Air Brake System w/ ABS (410)

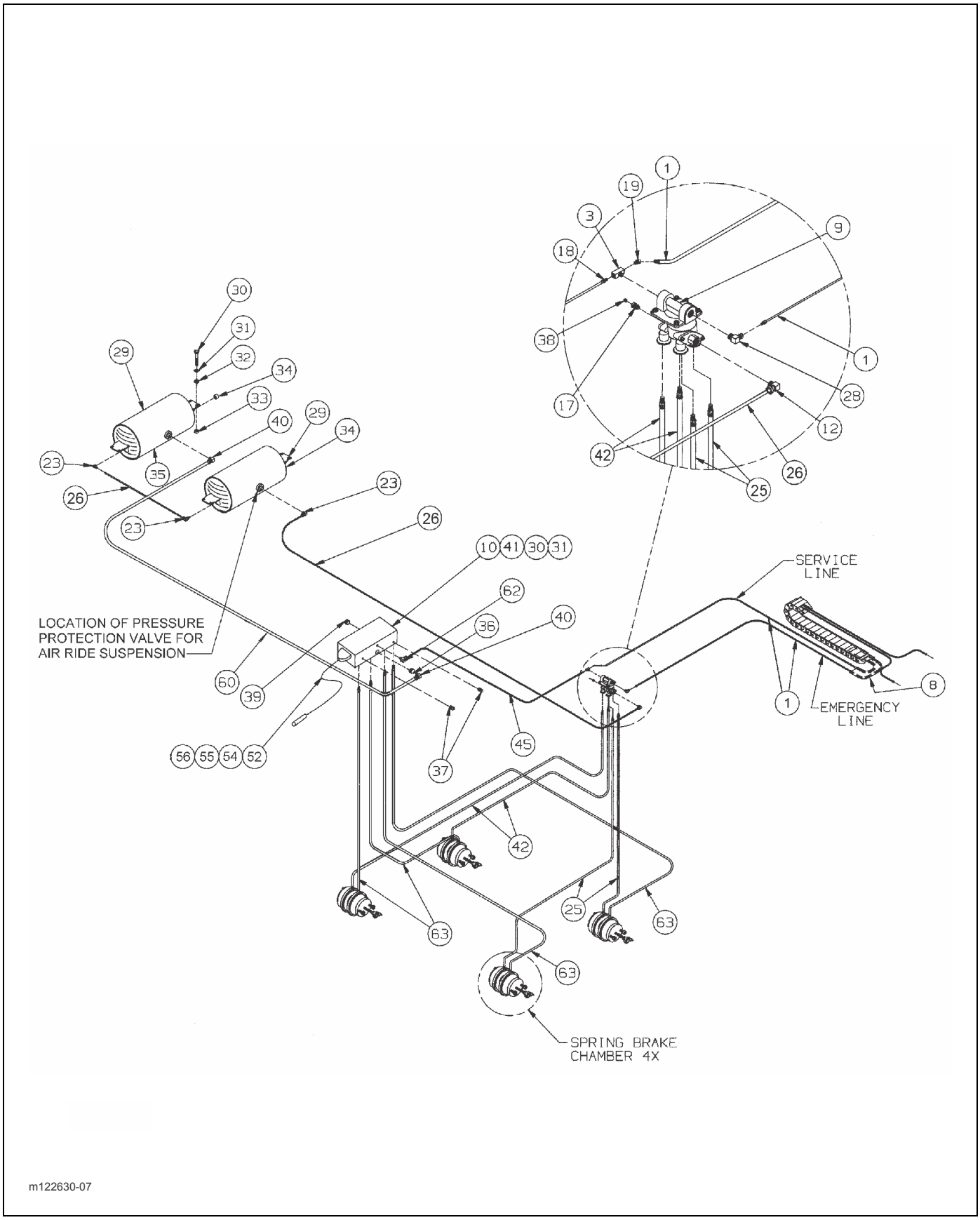


Figure 2-36: Spring Air Brake System w/ ABS (425 & 435)

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 2-60)	1	1	--
	114586	BRAKE KIT, ABS 4S/2M (SEE PAGE 2-60)	--	--	1
12	1-297-010008-23	FITTING, AIR 90	1	1	1
14	1-384-010038084	HOSE, AIR 3/8 X 84”	--	--	--
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

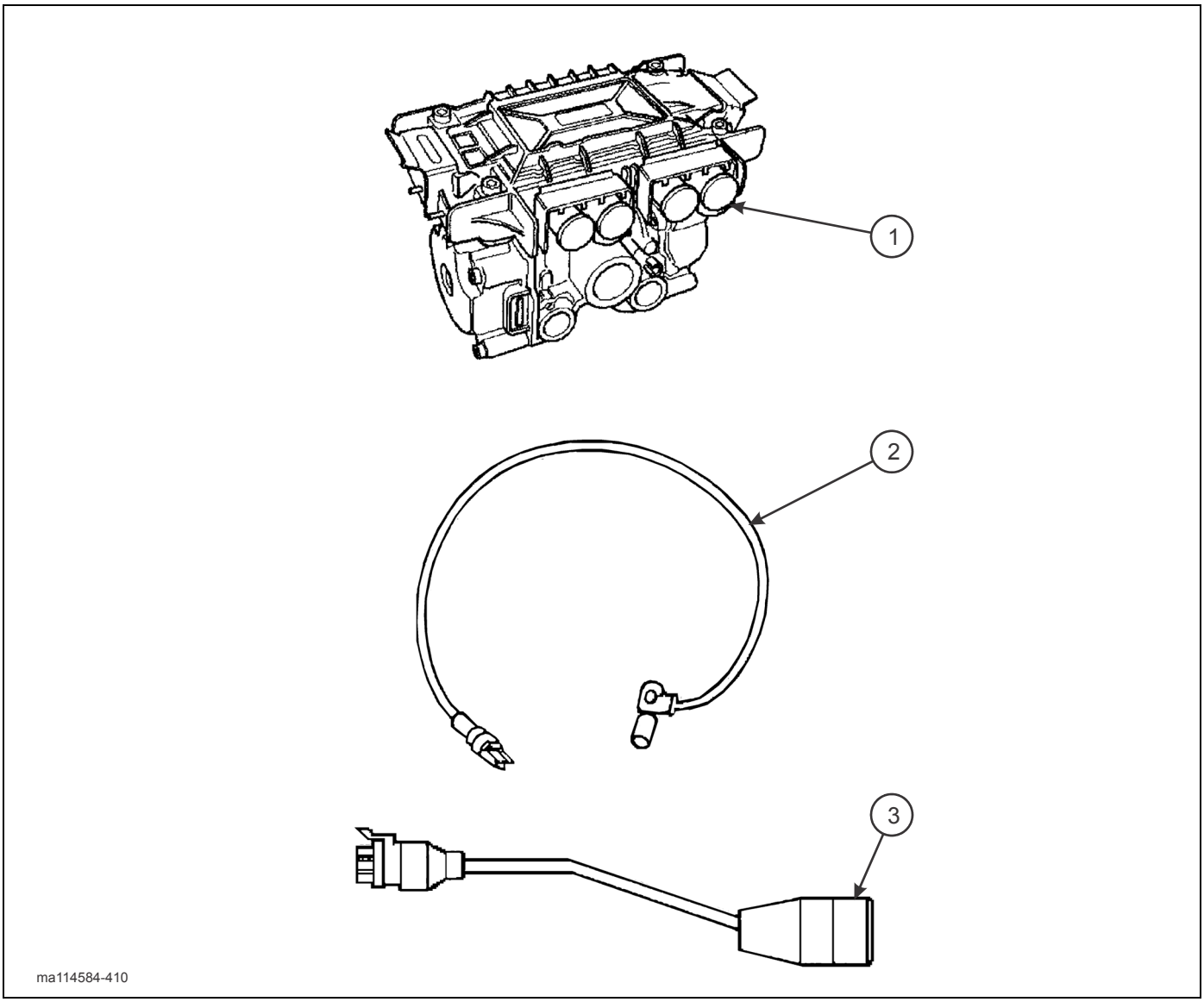


Figure 2-37: Brake Kit, Rockwell ABS

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 (114584 & 114586)	1
2	101848	SENSOR EXTENSION CABLE (6 FT) (114584)	4
	103861	SENSOR EXTENSION CABLE (10 FT) (114586)	4
3	147464	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1

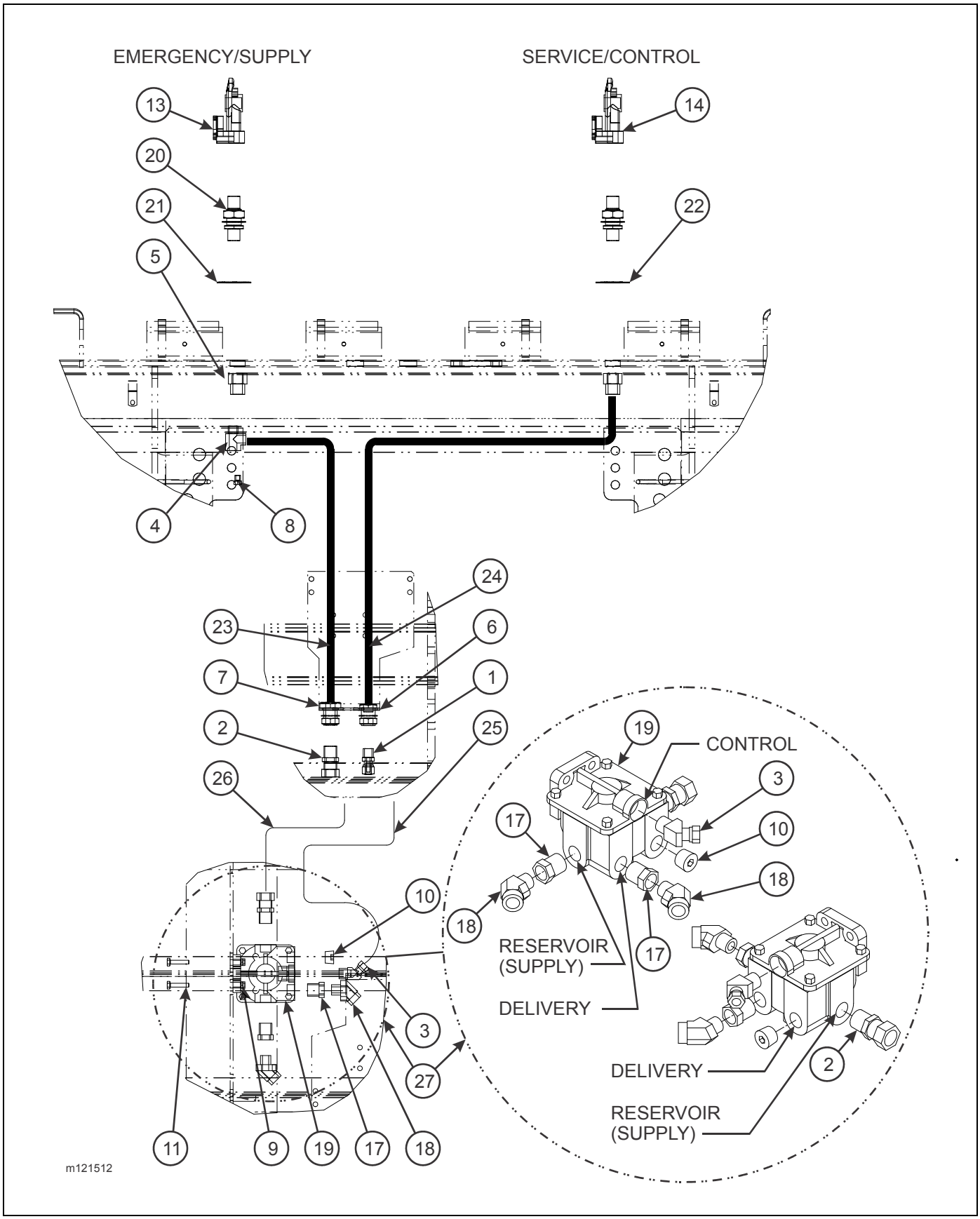


Figure 2-38: Air System, ABS

AIR SYSTEM, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
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
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, AIR 3/8 X 222	1
25	1-833-010002	TUBING NYLON 3/8	AR
26	1-833-010003	TUBING NYLON 1/2	AR
27	141607	AIR BOOSTER VALVE ASSEMBLY (INCL ITEMS 2-3, 10, 17-19)	1

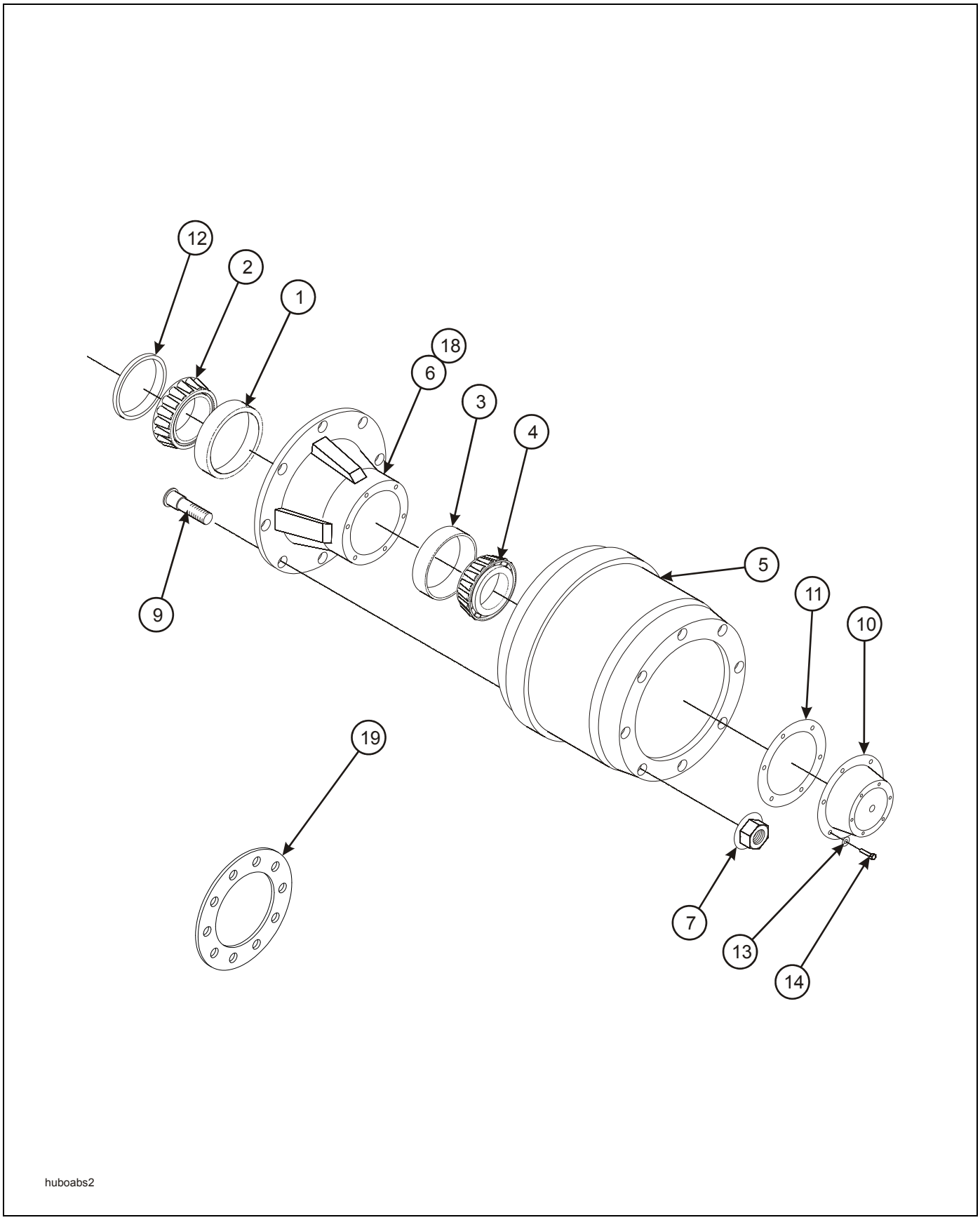


Figure 2-39: Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
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 (12-1/4" x 7-1/2")	1
	110976	OUTBOARD MOUNTED BRAKE DRUM (16-1/2" x 7")	
6	112492	HUB IRON (8 BOLT) 100 TH TONER RING (12-1/4" x 7-1/2")	1
	110975	HUB IRON (8 BOLT) 100 TH TONER RING (16-1/2" x 7")	1
7	179933	NUT, HEX M22 X 1.5	8
9	113536	STUD	8
10	4009	CAP HUB	1
11	3067	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER, SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW, HEX HEAD CAP 5/16-18 X 3/4 GR5	6
15	100402	WHEEL, ALUM PILOT MOUNT 17.5 X 6.75	1
	3-870-010097	WHEEL, DISC PILOT MOUNT 17.5 X 6.75	1
	112047	WHEEL, ALUMINUM PILOT 17.5 X 6.75 MACH (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C (NOT SHOWN)	1
17	1-843-010014	VALVE, EXTENSION, STEM 3" (NOT SHOWN)	1
18	*	ABS TONE RING	1
19	**114619	WHEEL GUARD 8 HOLE 275 MM BC (NOT SHOWN)(USED W/ ALUMINUM WHEELS)	
	**3-870-010107	WHEEL GUARD 10 HOLE 285.75MM BC (NOT SHOWN)	
20	142549	HUBODOMETER W/ BRACKET 10R17.5 TIRE (NOT SHOWN)	
	142551	HUBODOMETER W/ BRACKET 215/75R17.5 TIRE (NOT SHOWN)	
	142550	HUBODOMETER W/ BRACKET 235/75R17.5 TIRE (NOT SHOWN)	
	137108	HUBODOMETER W/ BRACKET 255/70R22.5 TIRE (NOT SHOWN)	

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

**USE BETWEEN STEEL DRUM OR WHEEL AND ALUMINUM WHEEL.

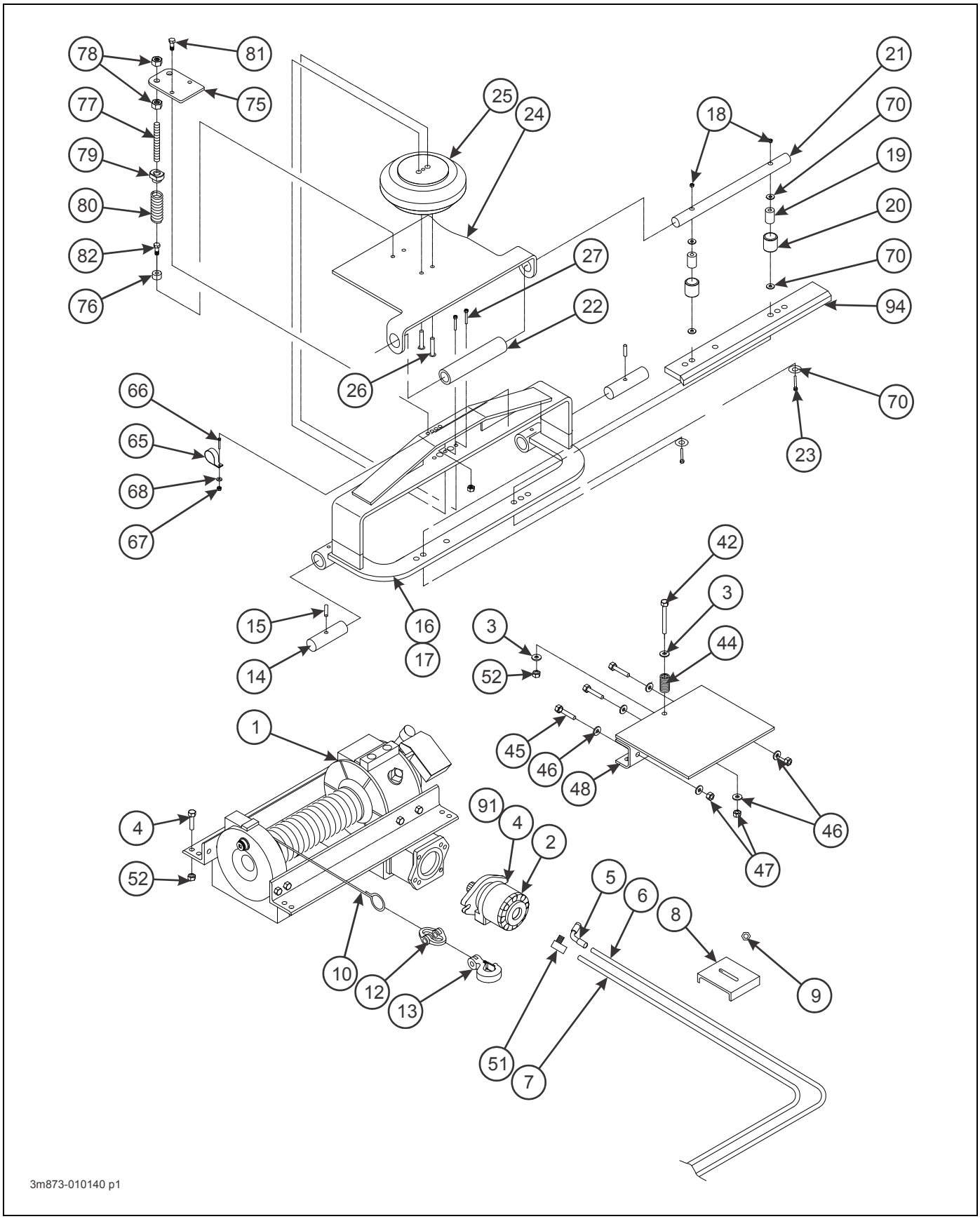


Figure 2-40: Winch Installation (1 of 2)

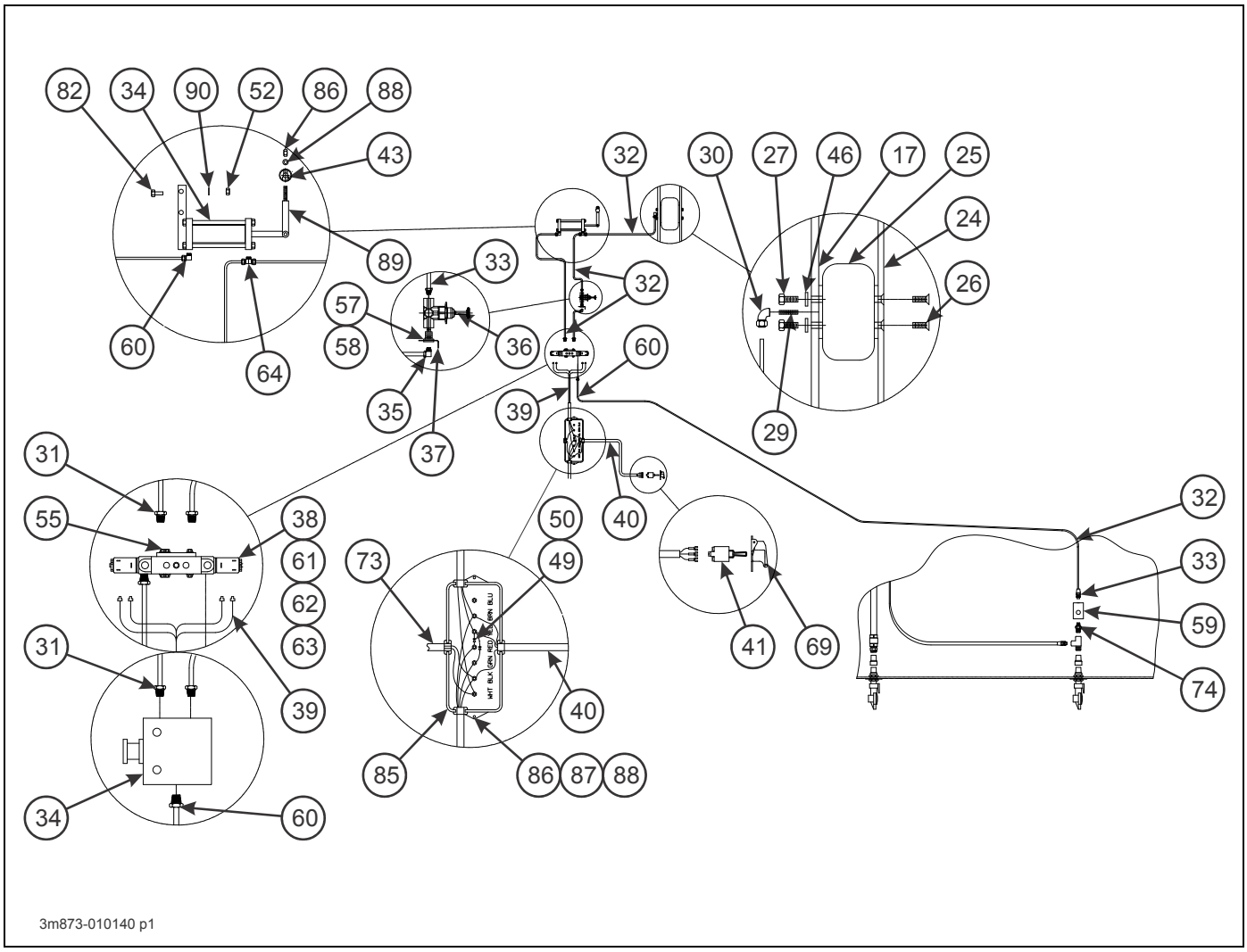


Figure 2-41: Winch Installation (2 of 2)

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	REF
	3-873-010144	WINCH, INSTALLATION 600-12K	REF
	123210	WINCH, 20K GUIDE AIR TEN/REL	
1	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 2-79)	1
	3-873-010122	WINCH ASSEMBLY 12K (SEE PAGE 2-76)	1
2	3-481-010007	MOTOR HYD. (20K) (SEE PAGE 2-84)	1
	3-481-010006	MOTOR HYD. (12K) (SEE PAGE 2-84)	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

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
11	3-174-010038	LINK	1
12	3-174-010039036	CHAIN (NOT SHOWN)	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	**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 5/8-11 X 5 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 3/8-16 X 1 GR8	*2
27	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	*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	1-833-010001	NYLON TUBING 1/4 OD	***28FT
33	1-297-010007-05	FITTING, AIR	*2
34	107368	WINCH AIR SHIFT CYL (20K)(SEE PAGE 2-82)	***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 ASSEMBLY 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 1/2-13 X 5-1/2 GR5	1
43	3-150-010186	BUSHING WINCH REMOTE LEVER (20K)	1
44	3-720-010010	SPRING COMP LEVEL WIND	1
45	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 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 (NOT SHOWN)	2
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
57	1-297-010022-02	FITTING, AIR ANCHOR	1

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	VALVE AND FILTER PRESSURE	*1,2
	167692	FILTER	*1,2
60	1-297-010008-05	FITTING, AIR 90	*3
61	1-654-010024014	SCREW, MACH SLOT 6-32 X 1-1/2	*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, MACH. #10-24 X 1	*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	1-861-010032-18	WASHER FLAT 5/8N (20K)	**2
73	3-368-010188	HARNESS POWER JUMPER 660	1
74	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	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 1/2-13 X 1-1/2 GR5	*2
82	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	**2, ***3
83	100600	DECAL, WARNING WINCH (NOT SHOWN)	1
85	750-029	JUNCTION BOX 7-STUD	1
86	1-512-010007-05	NUT HEX 1/4-20 GRB	2,***3
87	1-861-010032-06	WASHER FLAT 1/4N	2
88	1-861-010034-09	WASHER SPLIT LOCK 1/4	2,***3
89	107369	LEVER WINCH FREE SPOOL	***1
90	1-861-010032-14	WASHER, FLAT 1/2	***2
91	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
92	1-560-010002-01	PLUG, 1/8 (12K) (NOT SHOWN)	1
93	F-100852	CABLE GUIDE PIVOT 12K (NOT SHOWN)	1

NOTES:

* - FOR AIR TENSION OPTION

**- FOR CABLE ROLLER OPTION (P/N F-100852 (12K) OR 136566 (20K))

***- FOR AIR SHIFT OPTION. (AVAILABLE ONLY ON 20K WINCH.)

****- FOR SPRING TENSION OPTION

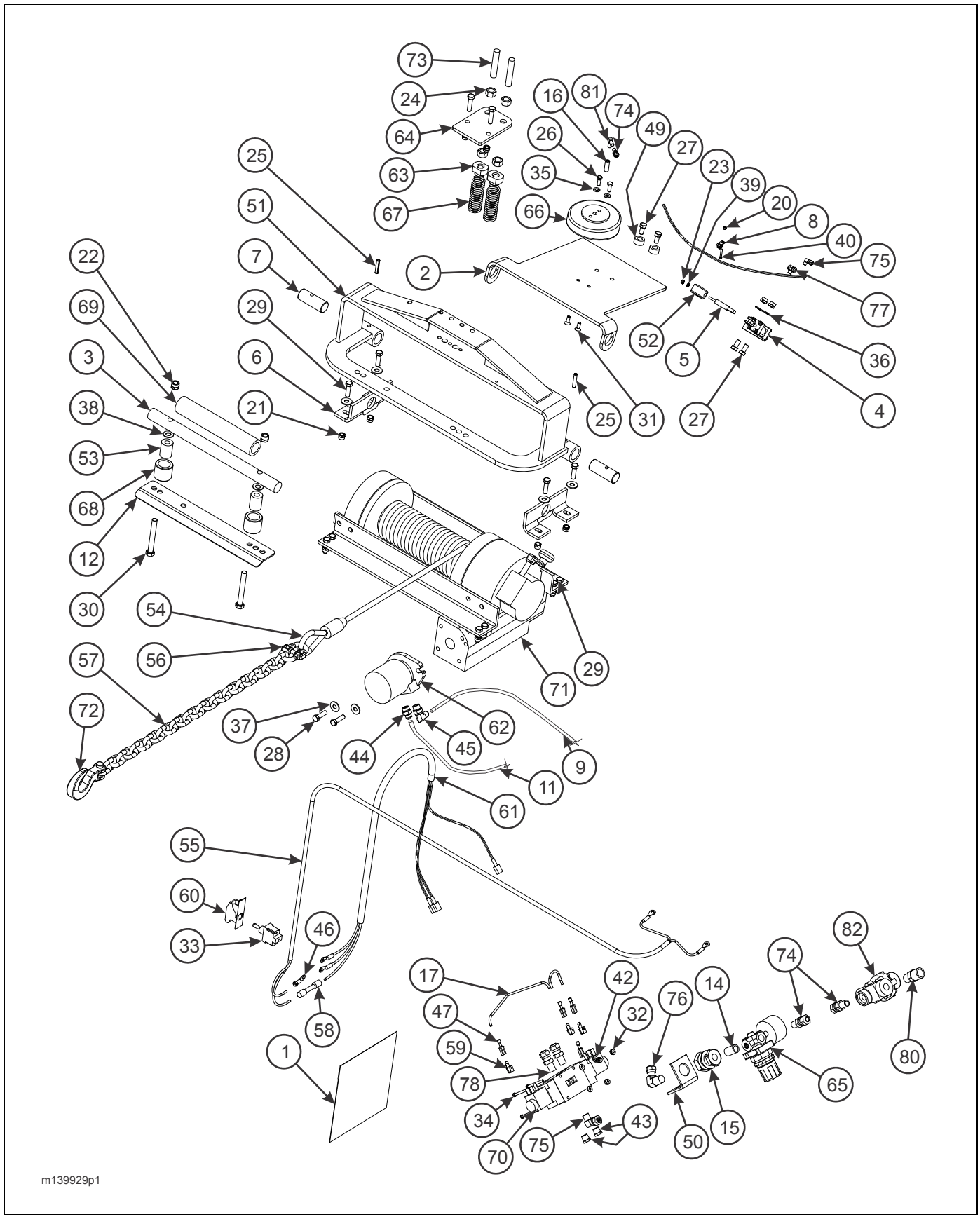


Figure 2-42: Winch Installation (1 of 2)

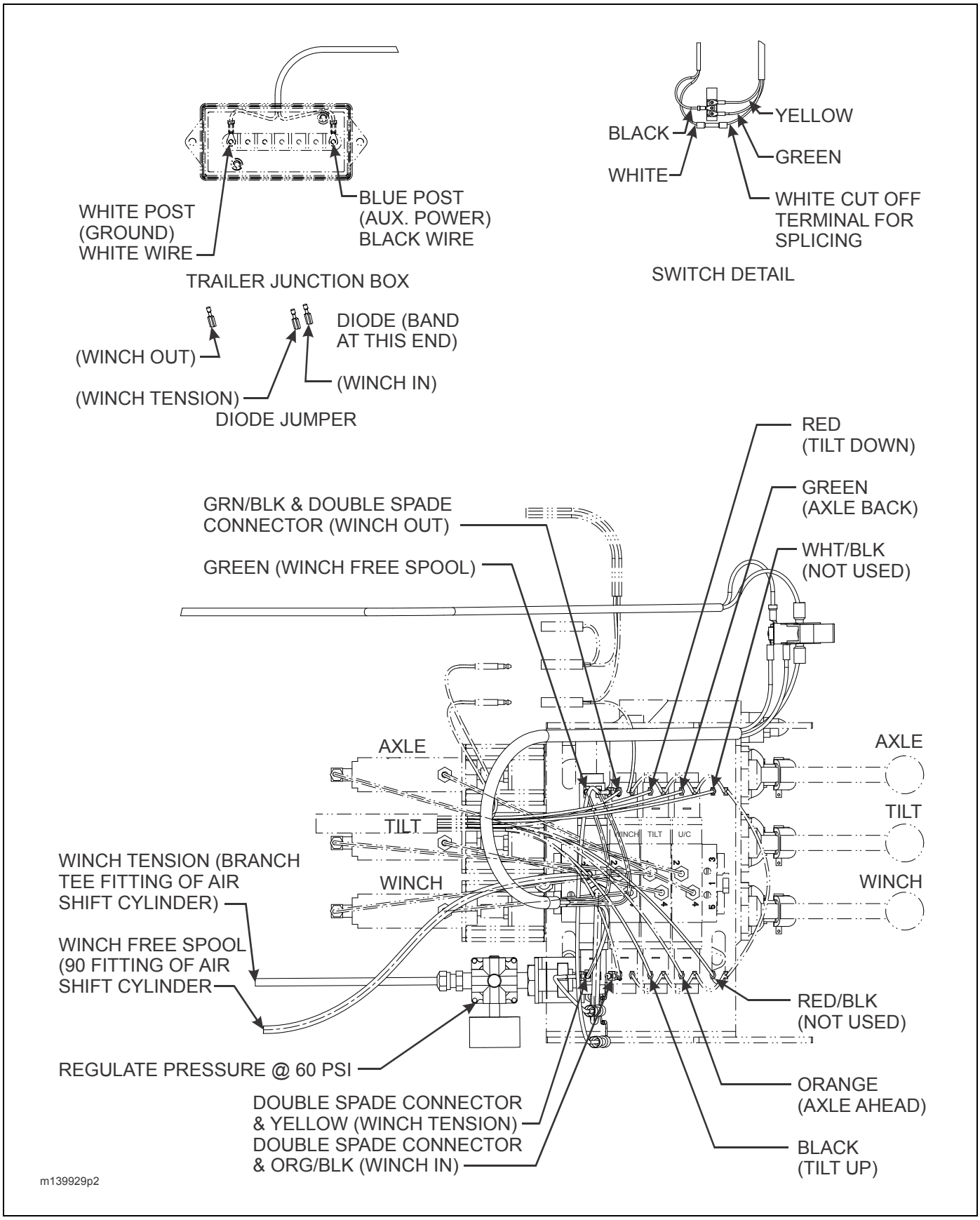


Figure 2-43: Winch Installation (2 of 2)

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	139929	WINCH 20K AT, A, ARCTIC W/ ORMT	
1	100600	DECAL, WARNING WINCH	1
2	102187	WINCH TENSIONER PLATE	1
3	102188	ROD, PIVOTING GUIDE	1
4	107368	WINCH AIR SHIFT CYL (SEE PAGE 2-82)	1
5	107369	LEVER WINCH FREE SPOOL	1
6	119621	ANCHOR CABLE GUIDE WINCH	2
7	119622	PIN, PIVOT WINCH ROLLER	2
8	125892	CLAMP, CABLE 3/8	1
9	139927	HOSE, 1/2 X 170 ARCTIC	1
10	126629	TUBING, NYLON 1/4 (NOT SHOWN)	AR
11	139928	HOSE, 1/2 X 172 ARCTIC	1
12	143246	RUB BAR CABLE GUIDE WINCH	1
14	1-297-010020-02	FITTING, BRASS PIPE	1
15	1-297-010022-02	FITTING, AIR ANCHOR	1
16	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	1
17	1-879-010010	WIRE, WHITE 14 AWG	AR
20	1-512-010004-03	NUT HEX LOCK #10-24	1
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	16
22	1-512-010005-13	NUT HEX LOCK 5/8-11 GR8	2
23	1-512-010007-05	NUT HEX 1/4-20 GRB	1
24	1-512-010007-12	NUT HEX 3/4-10 GRB	4
25	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
26	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
27	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	4
28	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	14
29	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
30	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
31	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
32	1-512-010003-02	NUT, HEX LOCK 6-32	3
33	1-765-010065	SWITCH, TOGGLE	1
34	1-654-010024014	SCREW, MACH SLOT 6-32 X 1-1/2	3
35	1-861-010032-10	WASHER FLAT 3/8N	2
36	1-861-010032-14	WASHER, FLAT 1/2N	2
37	1-861-010032-15	WASHER, FLAT 1/2W	6
38	1-861-010032-18	WASHER FLAT 5/8N	2
39	1-861-010034-09	WASHER SPLIT LOCK 1/4	1
40	1-654-010024055	SCREW, MACH SLOTTED FIL HEAD #10-24 X 1-1/4	1
42	1-861-010032-01	WASHER, FLAT #6	3
43	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	2
44	202702-10-8S	ADAPTER	1
45	2062-10-8S	ADAPTER, 90	1
46	239-3646-4	TERMINAL	3
47	239-3650-1	TERMINAL, FEMALE SLIP ON 14 AWG	4
49	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION - 600	2
50	3-120-010445	BRACKET, PRESSURE REGULATOR	1
51	3-125-010465	BRACKET WLDMT WINCH TENSIONER	1
52	3-150-010186	BUSHING WINCH REMOTE LEVER (20K)	1
53	3-150-010196	BUSHING, ROD ROLLER-600	2

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
54	3-155-010018-6	CABLE 85' W/ LOOP	REF
55	3-156-010008	CABLE, 14-2 SO TWO CONDUCTOR	AR
56	3-174-010038	LINK	1
57	3-174-010039036	CHAIN	1
58	3-272-010021	ELECT BUTT SPLICE 16/14 W/ SEAL	3
59	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSH-ON	3
60	3-348-010048	GUARD SWITCH -3 POSITION	1
61	3-368-010129	HARNESS ASSEMBLY SINGLE REMOTE	1
62	3-481-010007	MOTOR HYD. (20K) (SEE PAGE 2-84)	1
63	3-522-010017	NUT F/W SPRING TENSION - 600	2
64	3-565-011688	PLATE F/W SPRING TENSION - 600	1
65	3-626-010004	REGULATOR, AIR PRESSURE	1
66	3-720-010042	SPRING, AIR 6-1/2	1
67	3-720-010035	SPRING	2
68	3-831-010172	TUBE, ROLLER SIDE	2
69	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	1
70	3-843-010022	VALVE, PNEUMATIC	1
71	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 2-79)	1
72	7HCGHT500	HOOK	1
73	RTR7999X4ZP	ROD THREADED	2
74	126672	FITTING, COMPRESS, STRAIGHT	3
75	126676	FITTING, AIR 90	2
76	126677	FITTING, AIR 90	1
77	126679	FITTING, COMPRESSION TEE	1
78	126791	FITTING, COMPRESS	2
80	1-297-010019-05	FITTING BRS PIPE HEX 3/8 X 1/4	1
81	118-2676-2	ELBOW 90	1
82	905-54-107	VALVE AND FILTER PRESSURE	1
	167692	FILTER	1

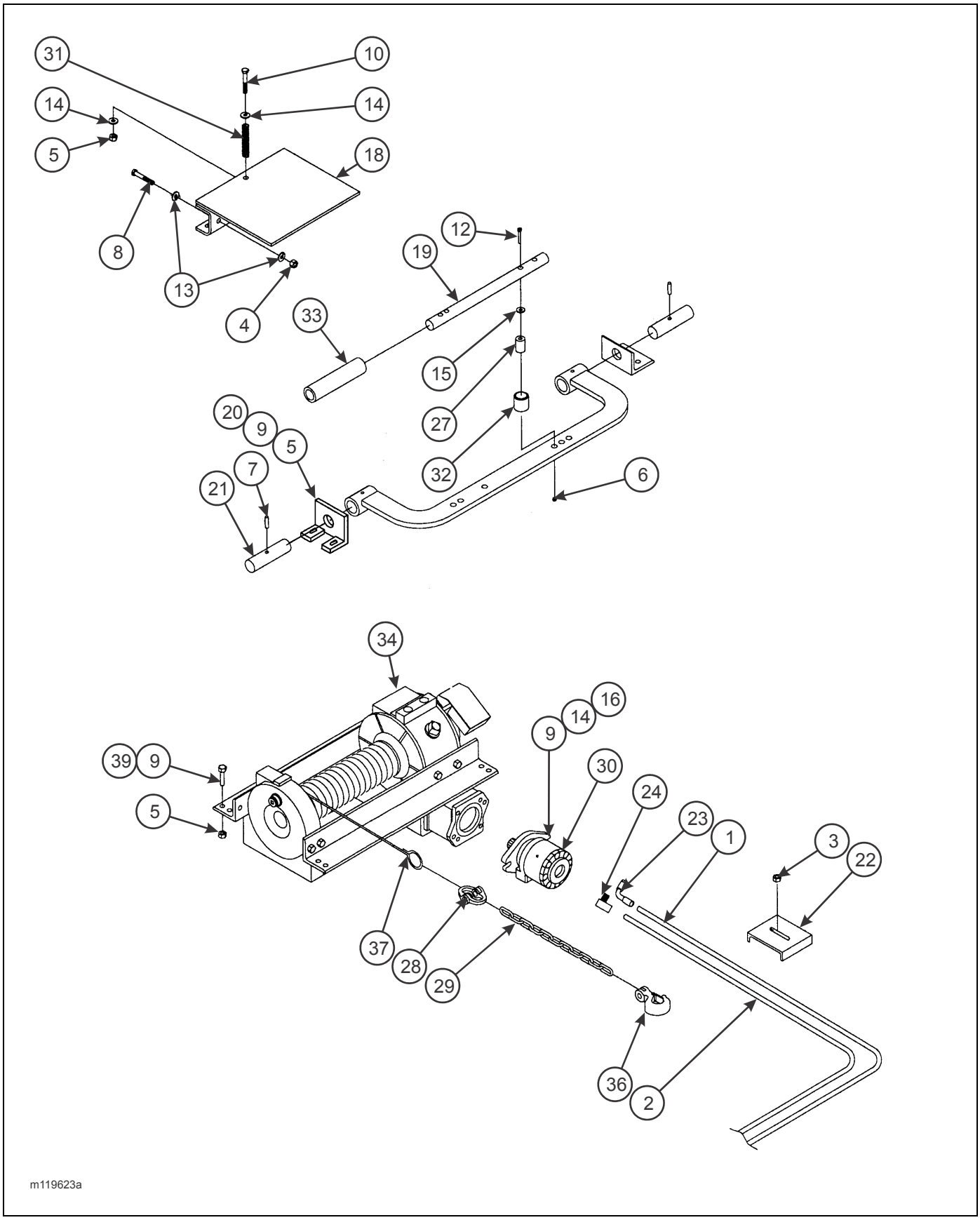


Figure 2-44: Winch Installation, Spring Tension Cable Roller

WINCH INSTALLATION, SPRING TENSION CABLE ROLLER

ITEM	PART NO.	DESCRIPTION	QTY.
	119623	WINCH INSTALLATION12K SPRING TENSION CABLE ROLLER	
	119624	WINCH INSTALLATION 20K SPRING TENSION CABLE ROLLER	
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-510-010001	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 3/8-16 X 1-1/4 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 1/2-13 X 5-1/2 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)	6
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 2-84)	1
	3-481-010007	MOTOR, HYD. (20K) (SEE PAGE 2-84)	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 ASSEMBLY (12K) (SEE PAGE 2-76)	1
	3-873-010123	WINCH ASSEMBLY (20K) (SEE PAGE 2-79)	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.

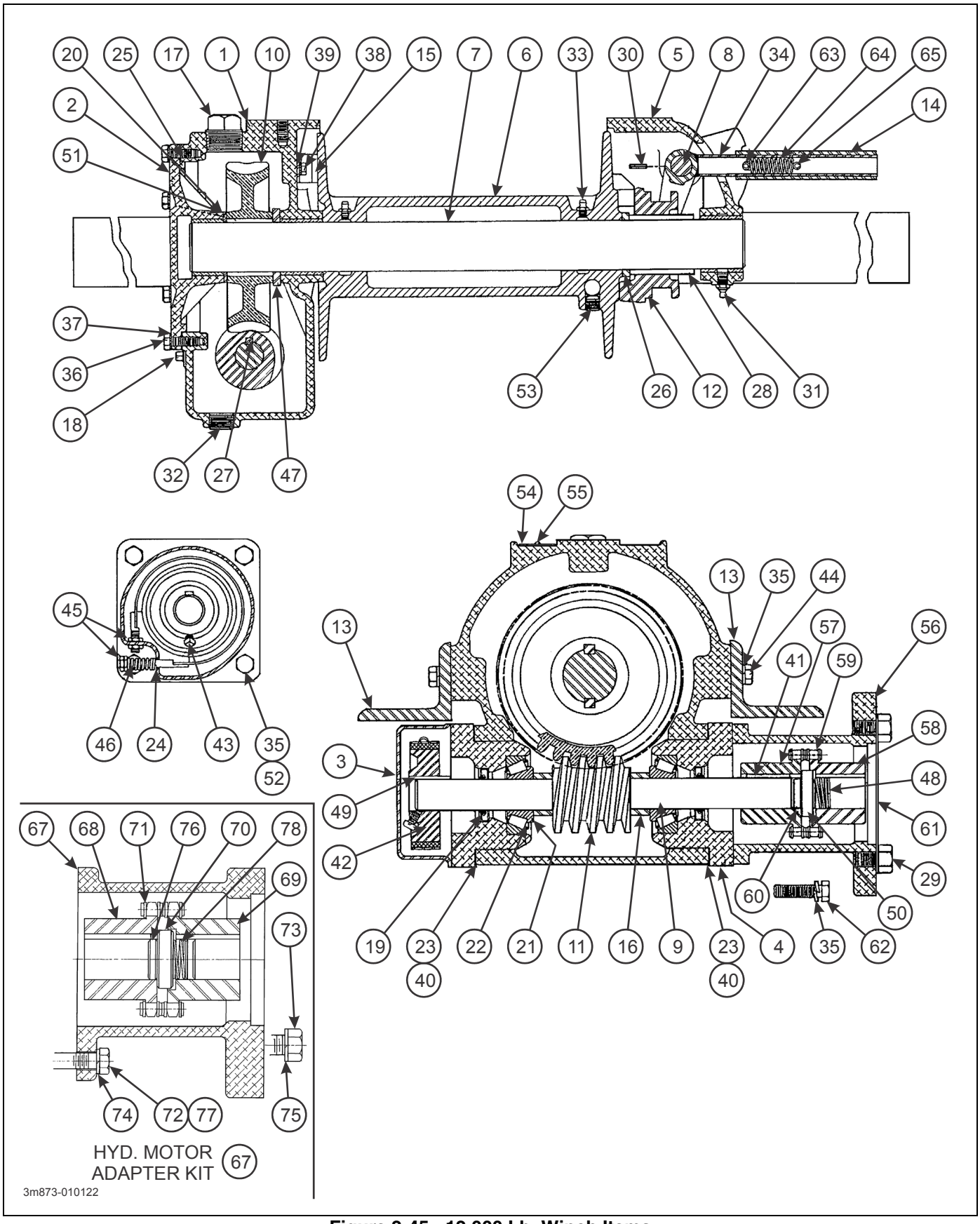


Figure 2-45: 12,000 Lb. Winch Items

12,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010122		WINCH ASSEMBLY 12K (BRADEN)	
1	81006	81006	WORM HOUSING ASSEMBLY	1
1A	18078	18078	BUSHING	1
2	81009	81009	COVER ASSEMBLY WORM HOUSING	1
2A	11368	11368	BUSHING	1
3	18032	18032	HOUSING SAFETY BRAKE	1
4	23303	23303	CONTAINER BEARING	2
5	81530	81530	LEG ASSEMBLY BEARING	1
6	11128	11128	DRUM CABLE	1
7	11129	11129	DRUM SHAFT CABLE	1
8	11130	11130	SHIFTER SHAFT	1
9	23470	23470	SHAFT WORM	1
10	11144	11144	GEAR WORM LEFT HAND	1
11	11142	11142	WORM LEFT HAND	1
12	18039	18039	SLIDING CLUTCH	1
13	22752	22752	ANGLE BASE	2
14	12817	12817	SHIFTER HANDLE	1
15	81025	81025	BRAKE DRAG	1
16	11308	11308	SPACER WORM	2
17	----	22775	PLUG PIPE	1
18	18009	18009	PLUG PIPE	1
19	18026	18026	SEAL GREASE	2
20	11117	11117	KEY WORM GEAR	2
21	18015	18015	CONE BEARING	2
22	18016	18016	CUP BEARING	2
23	18027	18027	GASKET	3
24	21925	21925	BAND BRAKE	1
25	11133	11133	WORM HOUSING COVER GASKET	3
26	18019	18019	RETAINER RING	1
27	18030	18030	KEY WORM	1
28	18020	18020	KEY CLUTCH	2
29	----	10009	CAPSCREW	2
30	11837	11837	ROLLPIN	2
31	18047	18047	FITTING GREASE	1
32	19045	19045	PLUG PIPE	1
33	----	11799	FITTING GREASE	2
34	13839	13839	SHIFTER FORK	1
35	----	18003	WASHER LOCK	16
36	----	11767	CAPSCREW	6
37	----	11011	WASHER LOCK	6
38	13005	13005	CAPSCREW	2
39	----	12780	WASHER LOCK	2
40	18024	18024	BEARING CONTAINER GASKET	3
41	18044	18044	KEY	1
42	18028	18028	DRUM BRAKE	1
43	12075	12075	SETSCREW	1
44	----	21961	CAPSCREW	12
45	13468	13468	JAM NUT	4
46	18029	18029	BRAKE BAND SPRING	1

12,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
47	11240	11240	RETAINER RING	1
48	----	23353	SPRING	1
49	10078	10078	KEY	1
50	23078	23078	SPACER	1
51	13680	13680	THRUST RING	1
52	----	22703	CAPSCREW	4
53	----	24032	SETSCREW	1
54	----	23310	WARNING PLATE	1
55	----	11842	DRIVE SCREW	2
56	23079	23079	MOTOR ADAPTER	1
57	23081	23081	COUPLING HALF (WORM SHAFT)	1
58	23083	23083	COUPLING HALF (MOTOR SHAFT)	1
59	13424	13424	ROLLER CHAIN	1
60	23085	23085	SPACER	1
61	----	21959	SHIPPING COVER	1
62	----	22704	CAPSCREW	4
63	13028	13028	ROLLPIN	1
64	18002	18002	SPRING	1
65	18056	18056	ROLLPIN	1
66	61333	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH (INCL ITEMS 67- 78)	1
67	23079	23079	ADAPTER, MOTOR	1
68	23081	23081	COUPLING HALF, WINCH	1
69	23083	23083	COUPLING HALF, MOTOR	1
70	23078	23078	SPACER, CONSTANT	1
71	13424	13424	CHAIN ROLLER	1
72	----	----	CAPSCREW	4
73	----	----	CAPSCREW	4
74	----	27152	LOCKWASHER	4
75	----	11026	LOCKWASHER	4
76	----	23085	SPACER	1
77	----	----	CAPSCREW	4
78	110452	23353	SPRING SPACER	1

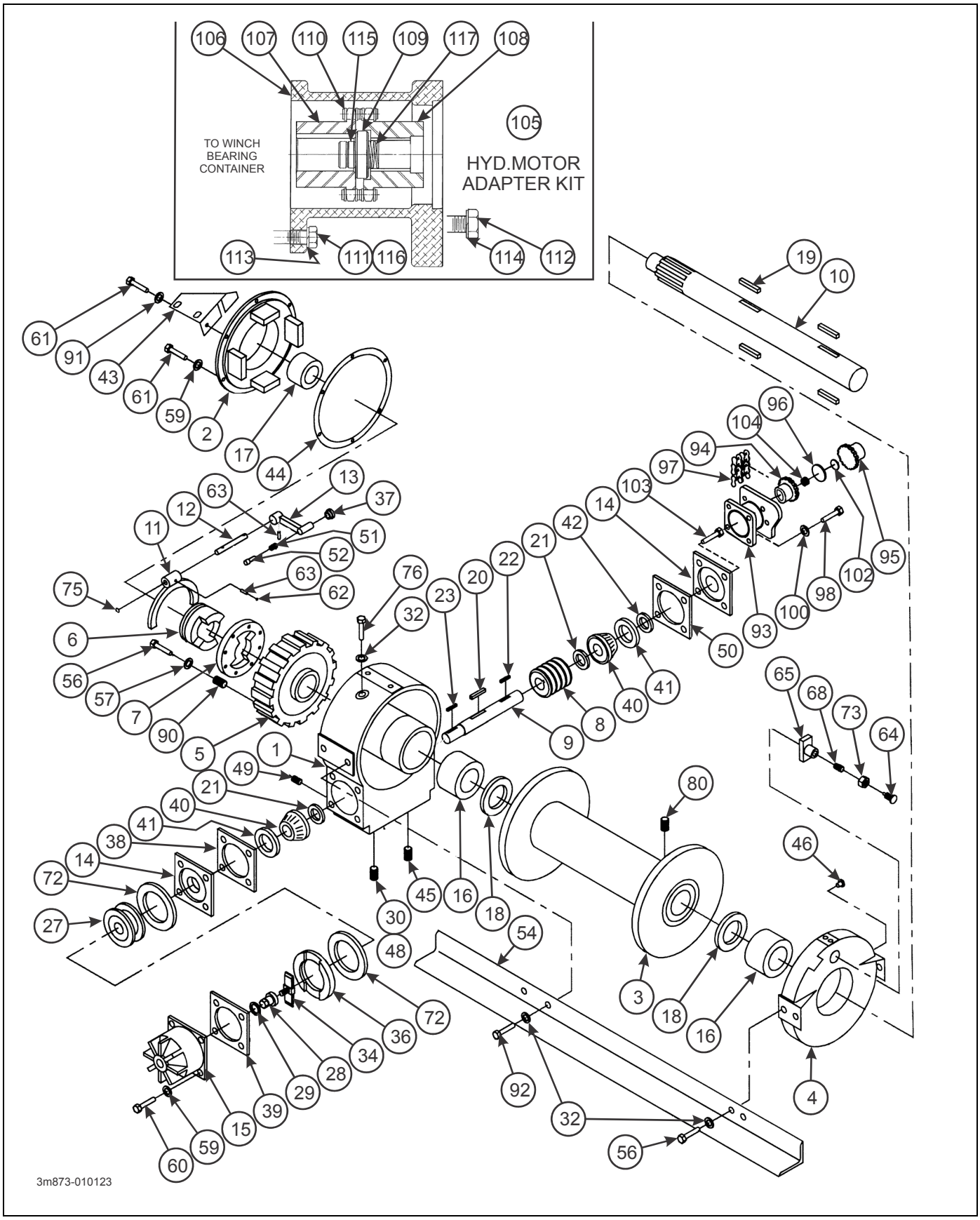


Figure 2-46: 20,000 Lb. Winch Items

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010123		WINCH 20,000# W/BOLT-ON ANGLES	
1	81078	81078	WORM HOUSING ASSEMBLY	1
2	106956	81082	COVER ASSEMBLY WORM HOUSING	1
3	----	101142	DRUM CABLE	1
4	81077	81077	LEG ASSEMBLY BEARING	1
5	11434	11434	WORM, GEAR RIGHT	1
6	11421	11421	CLUTCH, SLIDING	1
7	11419	11419	DRIVE, CLUTCH	1
8	154166	11404	WORM RIGHT	1
9	----	11405	SHAFT, WORM	1
10	139479	11414	SHAFT, CABLE DRUM	1
11	11440	11440	FORK SHIFTER	1
12	11441	11441	SHAFT SHIFTER	1
13	26976	26976	HANDLE SHIFTER	1
14	124549	11427	CONTAINER BEARING	2
15	----	11445	COVER WORM BRAKE	1
16	18035	18035	BUSHING	2
17	11425	11425	BUSHING	1
18	11420	11420	RING, RETAINING	2
19	163472	22055	DRUM, KEY CABLE	4
20	11402	11402	KEY, WORM	1
21	11407	11407	SPACER, WORM	2
22	23367	23367	KEY, SPROCKET	1
23	10078	10078	KEY, ROTOR	1
27	81080	81080	ROTOR ASSEMBLY, BRAKE	1
28	11599	11599	ADJUSTING NUT, WORM BRAKE	1
29	12465	12465	O-RING	1
30	----	19014	PLUG, FILLER	1
32	----	11026	WASHER, LOCK	10
34	81081	81081	SPRING ASSEMBLY, SAFETY BRAKE	1
36	11431	11431	PLATE, PRESSURE	1
37	18022	18022	KNOB, SHIFTER	1
38	11429	11429	GASKET	4
39	11446	11446	GASKET	2
40	18033	18033	BEARING CONE	2
41	18034	18034	BEARING CUP	2
42	12073	12073	SEAL GREASE	1
43	12783	12783	BRACKET SHIFTER	1
44	11411	11411	COVER GASKET HOUSING	1
45	19045	19045	PLUG DRAIN	1
46	18047	18047	FITTING GREASE	1
48	----	22775	PLUG VENT	1
49	----	18009	PLUG LEVEL	1
50	11430	11430	GASKET	4
51	11310	11310	SPRING SHIFTER KNOB	1
52	11309	11309	STEM SHIFTER KNOB	1
54	----	28942	ANGLE FRONT BASE	1
55	----	28943	ANGLE REAR BASE (NOT SHOWN)	1
56	----	13938	CAPSCREW	16

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
57	----	12781	WASHER, LOCK	8
58	----	21044	CAPSCREW	4
59	----	11025	WASHER, LOCK	3
60	----	22695	CAPSCREW	4
61	----	21964	CAPSCREW	6
62	12146	12146	PLUG, EXPANSION	A/R
63	13028	13028	ROLLPIN	A/R
64	11398	11398	SCREW, ADJUSTING	1
65	88005	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	11426	DISC, FRICTION	2
73	11791	11791	NUT, JAM	1
75	12767	12767	PLUG, EXPANSION	A/R
76	----	22729	CAPSCREW	2
77	----	23245	SAE PLATE-AMU7-16F (NOT SHOWN)	1
78	----	23310	PLATE, WARNING (NOT SHOWN)	1
79	----	11842	SCREW, DRIVE (NOT SHOWN)	4
80	139478	12228	SCREW, SET	1
90	----	11435	INSERT THREAD	8
91	----	11014	LOCKWASHER	1
92	----	22697	CAPSCREW (NOT SHOWN)	5
93	23144	23144	ADAPTER - MOTOR	1
94	23081	23081	COUPLING HALF-WINCH	1
95	----	23142	COUPLING HALF-MOTOR	1
96	23078	23078	SPACER - CONSTANT	1
97	13424	13424	ROLLER, CHAIN	1
98	----	22704	CAPSCREW	4
99	----	13413	CAPSCREW (NOT SHOWN)	4
100	----	18003	LOCKWASHER	4
101	----	11026	LOCKWASHER (NOT SHOWN)	4
102	----	23183	SPACER - VARIABLE	2
103	----	22703	CAPSCREW	4
104	----	23353	SPRING - SPACER	1
105	----	61344	HYD. MOTOR ADAPTER KIT, 20,000# WINCH (INCL ITEMS 106-117)	1
106	23144	23144	ADAPTER, MOTOR	1
107	23081	23081	COUPLING HALF, WINCH	1
108	110448	23142	COUPLING HALF, MOTOR	1
109	23078	23078	SPACER, CONSTANT	1
110	13424	13424	CHAIN ROLLER	1
111	----	----	CAPSCREW	4
112	----	----	CAPSCREW	4
113	----	27152	LOCKWASHER	4
114	----	11026	LOCKWASHER	4
115	110451	23183	SPACER	1
116	----	----	CAPSCREW	4
117	110452	23353	SPRING SPACER	1

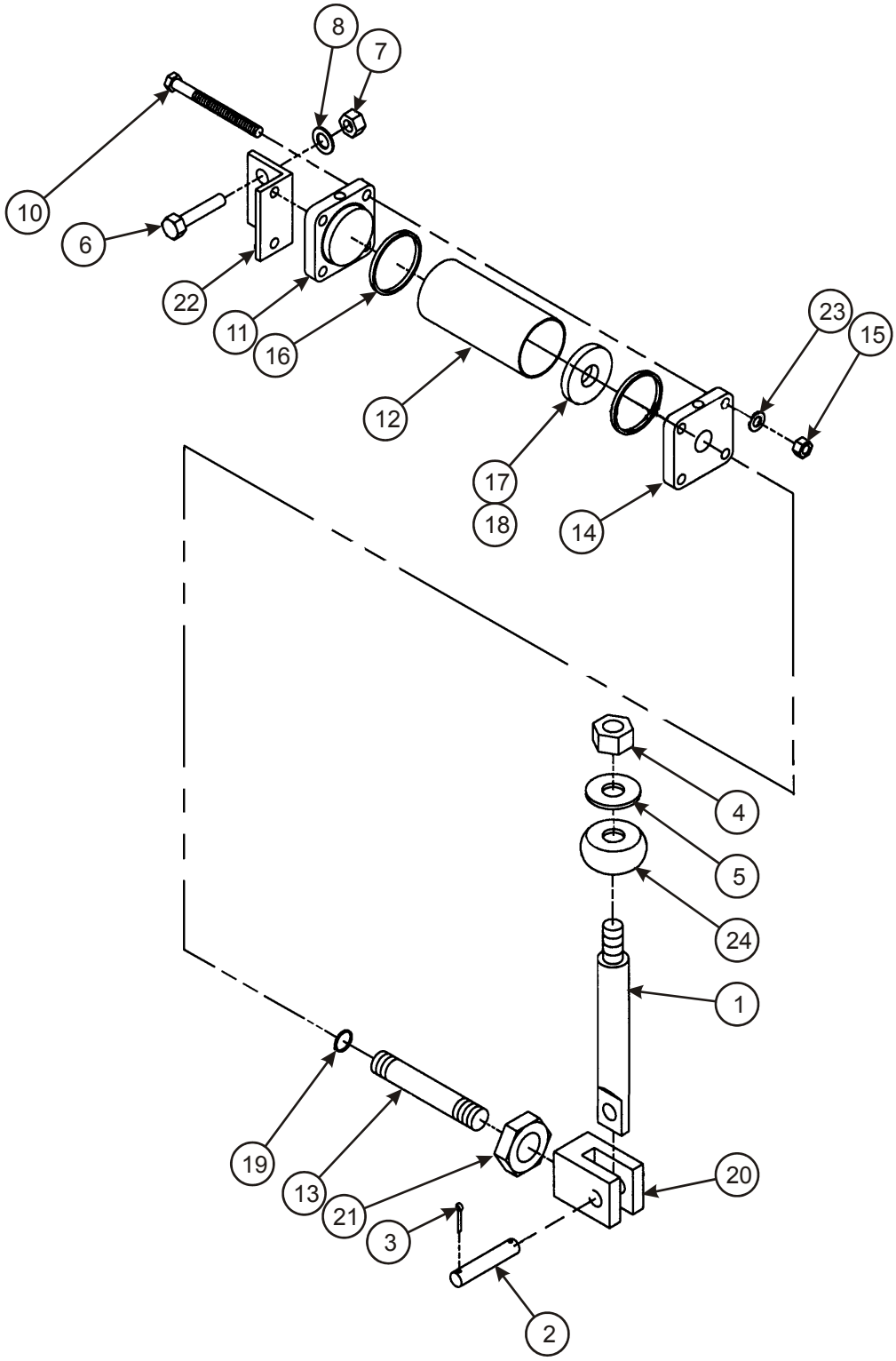


Figure 2-47: Winch Air Shift Cylinder

WINCH AIR SHIFT CYLINDER

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	107368		CYLINDER, AIR W/ BRACKET (INCLUDES ITEMS 2 - 3, 6 - 23)	
1	107369		LEVER WINCH FREE SPOOL	1
2	-----	1976	PIN	1
3	-----	2356	COTTER PIN	1
4	1-512-010007-05	-----	NUT, HEX 1/4-20 GRB	1
5	1-861-010034-09	-----	WASHER, SPLIT LOCK 1/4	1
6	1-654-010055-01	-----	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2
7	1-512-010005-09	-----	NUT, HEX LOCK 1/2-13 GRB	2
8	1-861-010032-14	-----	WASHER, FLAT 1/2	2
9	C2001	C2001	CYLINDER (INCLUDES ITEMS 10-23)	1
10	-----	1128	CAPSCREW	4
11	-----	1272	REAR COVER PLATE	1
12	-----	1277	TUBE	1
13	-----	2388	PISTON ROD	1
14	-----	1271	FRONT COVER PLATE	1
15	-----	1723	NUT	4
16	-----	1274	BACK-UP-RING	2
17	-----	1275	O-RING	1
18	-----	1273	PISTON	1
19	-----	1276	O-RING	1
20	1974	1974	CLEVIS	1
21	-----	1224	NUT	1
22	2389	2389	BRACKET	1
23	-----	1766	LOCKWASHER	4
24	3-150-010186	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	-----	3109	O-RING KIT FOR CYLINDER	

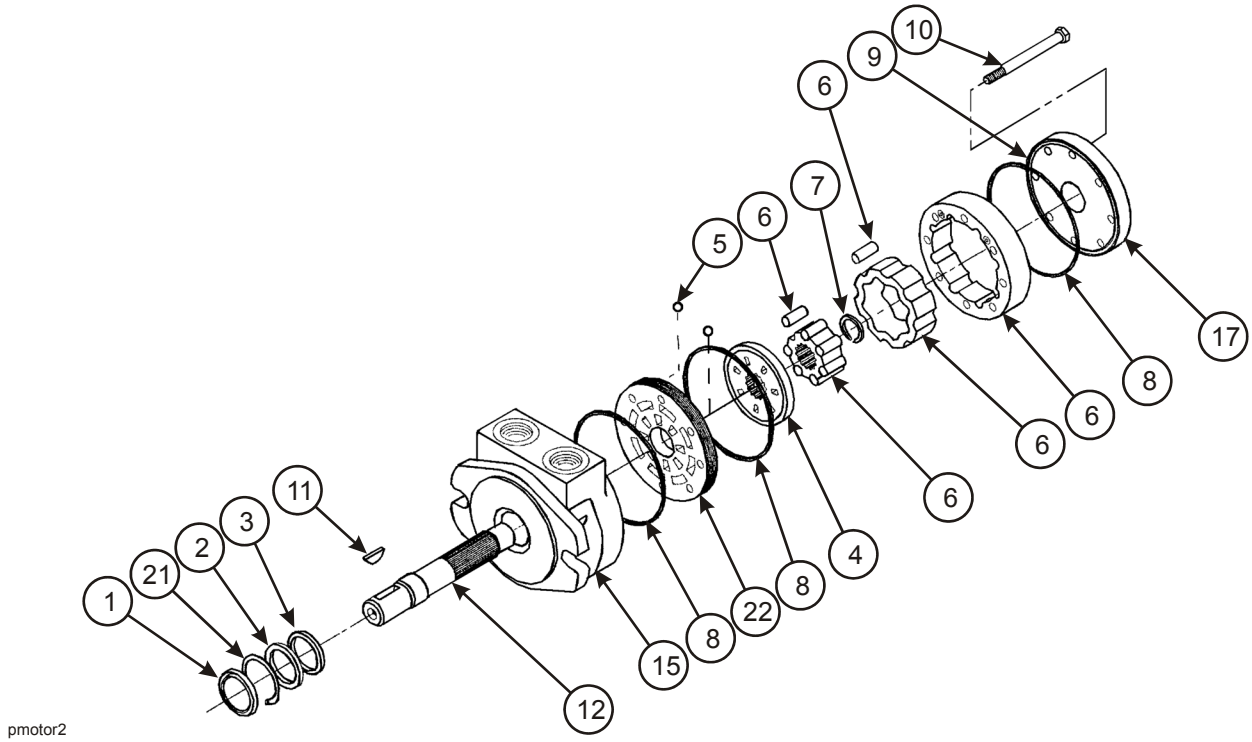


Figure 2-48: Winch Motor Assembly

WINCH MOTOR ASSEMBLY

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

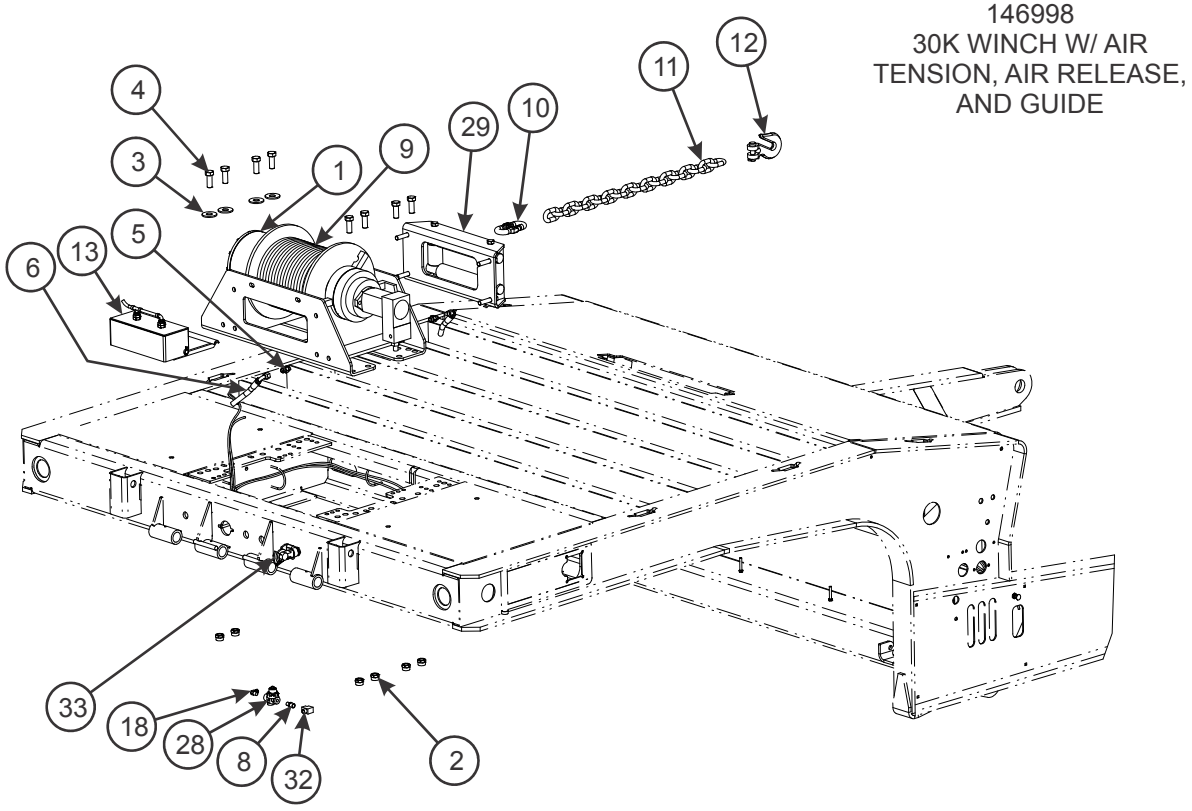


Figure 2-49: 30,000 Lb. Upper Deck Winch Installation (1 of 3)

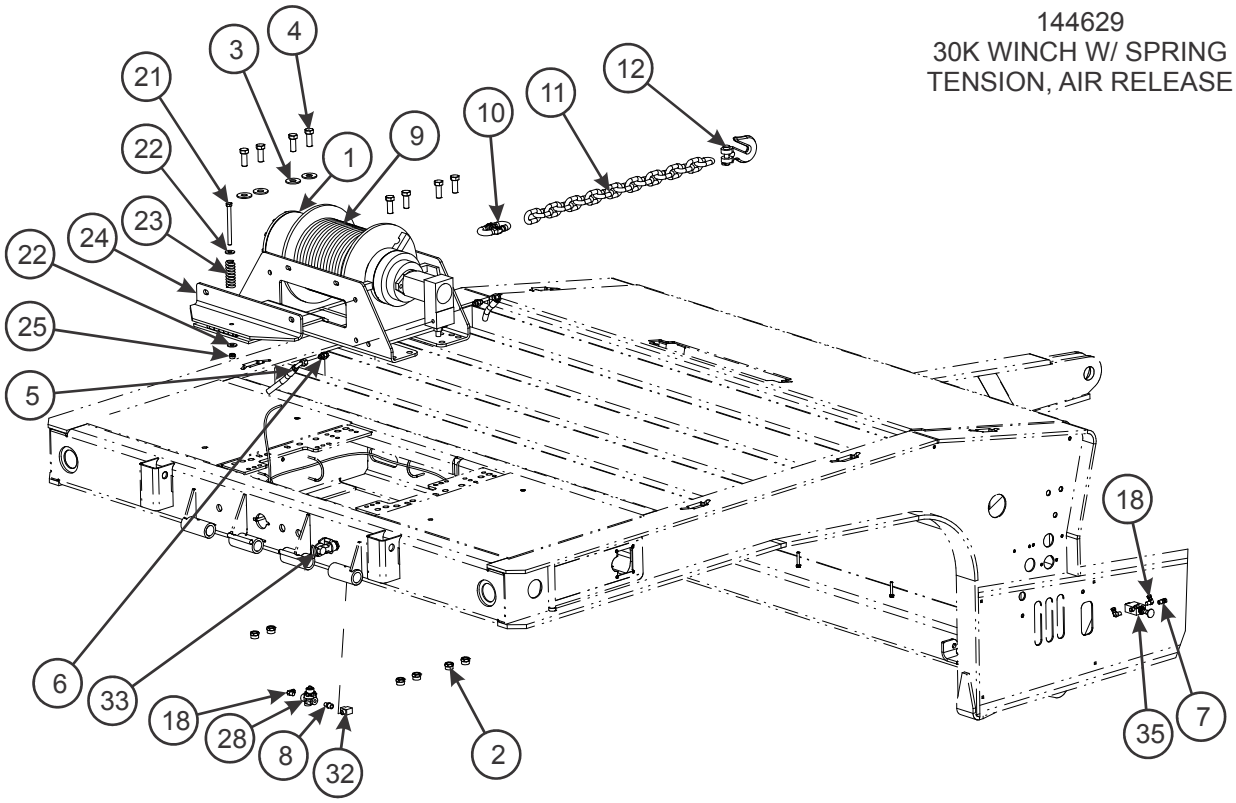


Figure 2-50: 30,000 Lb. Upper Deck Winch Installation (2 of 3)

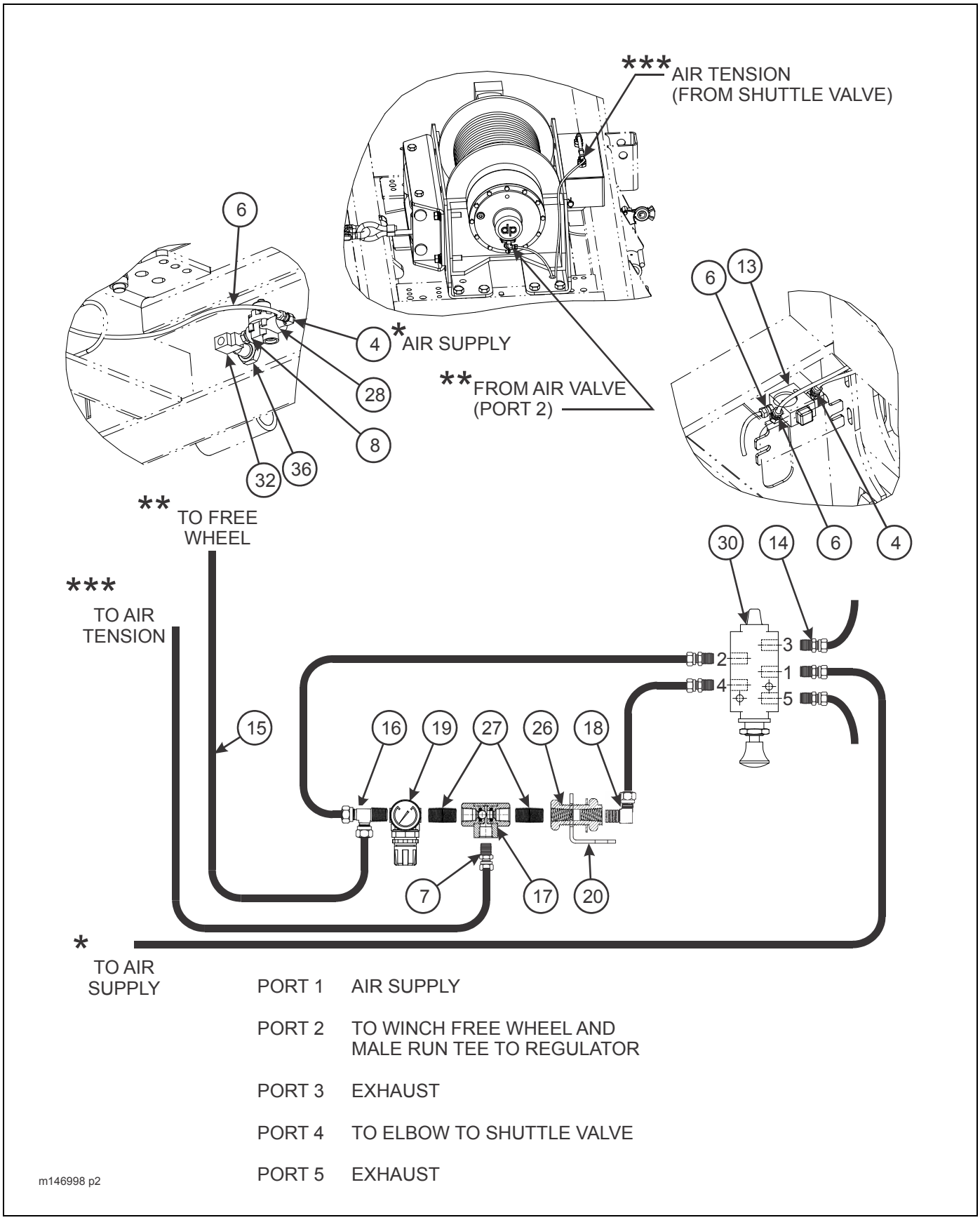


Figure 2-51: 30,000 Lb. Upper Deck Winch Installation (3 of 3)

30K UPPER DECK WINCH INSTALLATION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	146998	WINCH, 30K W/ AT, AR, & GUIDED	
		(INCL ITEMS 1,2,4,6-8,10-20,26-31)	
	147193	WINCH, 30K SPG TENS NO FREE	
		(INCL ITEMS 1-6,10-13,21-25)	
	144629	WINCH INST, 30K SPG TENS	
		(INCL ITEMS 1-4, 6-8, 12-13, 15, 18, 21-25, 28)	
1	3-873-010173	WINCH, 30K ITEMS (SEE PAGE 2-90)	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 3/4-10 X 2-1/2 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
9	132833	CABLE ASSEMBLY 5/8 X 85 W/ LOOP	REF
	132834	CABLE ASSEMBLY 5/8 X 150 W/ LOOP	REF
10	3-174-010059	CHAIN LINK 5/8	1
11	3-174-010060036	CHAIN GR 80	1
12	1-382-010035-06	HOOK, CLEVIS	1
13	3-873-010172	WINCH, CABLE AIR TENSION 30K (SEE PAGE 2-102)	1
14	1-297-010007-04	FITTING AIR	5
15	1-833-010001	NYLON TUBING 1/4 OD	AR
16	1-297-010011-02	FITTING, AIR TEE	1
17	3-843-010039-02	VALVE AIR SHUTTLE 1/4	1
18	1-297-010008-07	FITTING, AIR 90	3
19	3-626-010004	REGULATOR, AIR PRESSURE	1
20	3-120-010445	BRACKET, PRESSURE REGULATOR	1
21	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	1
22	1-861-010032-15	WASHER FLAT 1/2	2
23	3-720-010010	SPRING COMP LEVEL WIND	1
24	111641	WINCH TENSIONER WLDMT 30K	1
25	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
26	1-297-010022-02	FITTING, AIR ANCHOR	1
27	1-297-010020-02	FITTING, BRASS PIPE	2
28	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1
29	122333	WINCH ROLLER GUIDE 30K PLNTY DP (SEE PAGE 2-100)	1
30	139552	VALVE, AIR 5 WAY/2 POS	1
31	125892	CLAMP, CABLE 3/8 (NOT SHOWN)	1
32	1-297-010018-03	FITTING, TEE	REF
33	108801	GLAD HAND, RED AIR	REF
34	116837	VALVE, MOUNT WELDMENT (NOT SHOWN)	REF
35	134657	VALVE, AIR 3 WAY/2 POS	1
36	55B61	FRAME UNION	REF

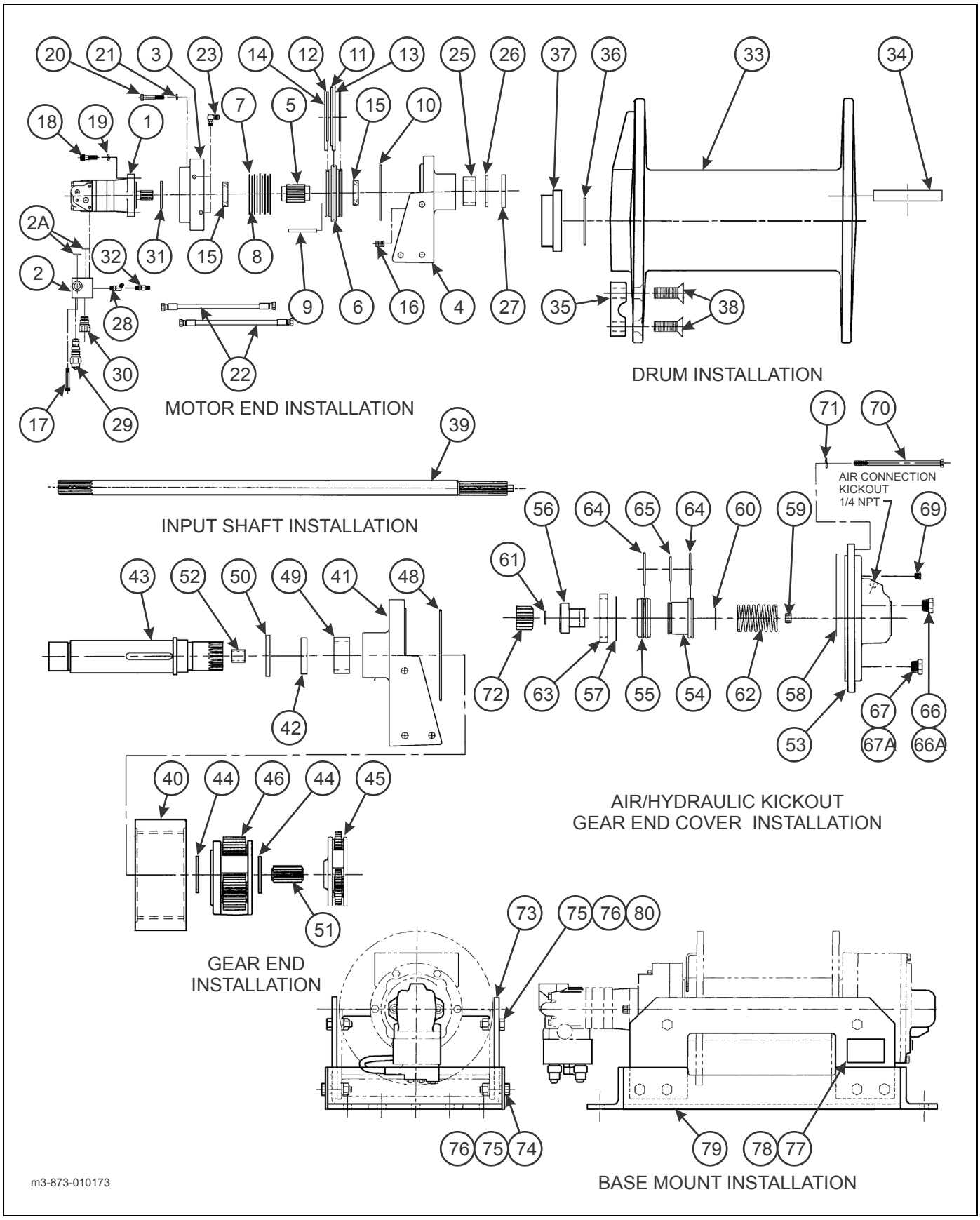


Figure 2-52: 30,000 Lb. Winch Items

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
	3-873-010173		WINCH 30K ITEMS	
			MOTOR END INSTALLATION	
1	137887	73067	MOTOR, HYDRAULIC	1
2	137888	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	137993	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	137994	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	137421	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16	2
13	-----	9854	RING, BACK-UP	1
14	137422	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	137880	9890	SEAL SHAFT	1
28	137641	76029	ADAPTER 45	
29	137883	3177	CARTRIDGE COUNTERBALANCE	1
30	137884	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
31	137882	9880	O-RING 3 ID X 1/8 SECTION	1
32	-----	76027	ADAPTER STRAIGHT	
	137885	9400	DISC PLATE KIT (INCL ITEMS 7-8 & 16)	
	137886	9406	SEAL KIT (INCL ITEMS 10-14)	
			DRUM INSTALLATION	
33	-----	13285	DRUM	1
34	-----	13293	KEY DRUM	2
35	137569	12518	CLIP CABLE THREADED	1
36	-----	9602	O-RING 2-5/8 ID X 1/8 W	1
37	-----	13286	SPACER	1
38	137570	1587	CAP SCREW, FLAT SKT HEAD 5/8-11 X 1-3/4	
			INPUT SHAFT INSTALLATION	

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
39	-----	13317	SHAFT INPUT	1
			GEAR END INSTALLATION	
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	2
45	-----	12486	CARRIER ASSEMBLY PRIMARY	1
46	-----	12516	CARRIER ASSEMBLY SECONDARY	1
47	-----	10848	LABEL WARNING (NOT SHOWN)	1
48	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
49	-----	81454	BEARING	1
50	137880	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	137879	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	137881	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	105967	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	105954	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	105953	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 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 MEDIUM PLAIN	12
77	-----	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
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.

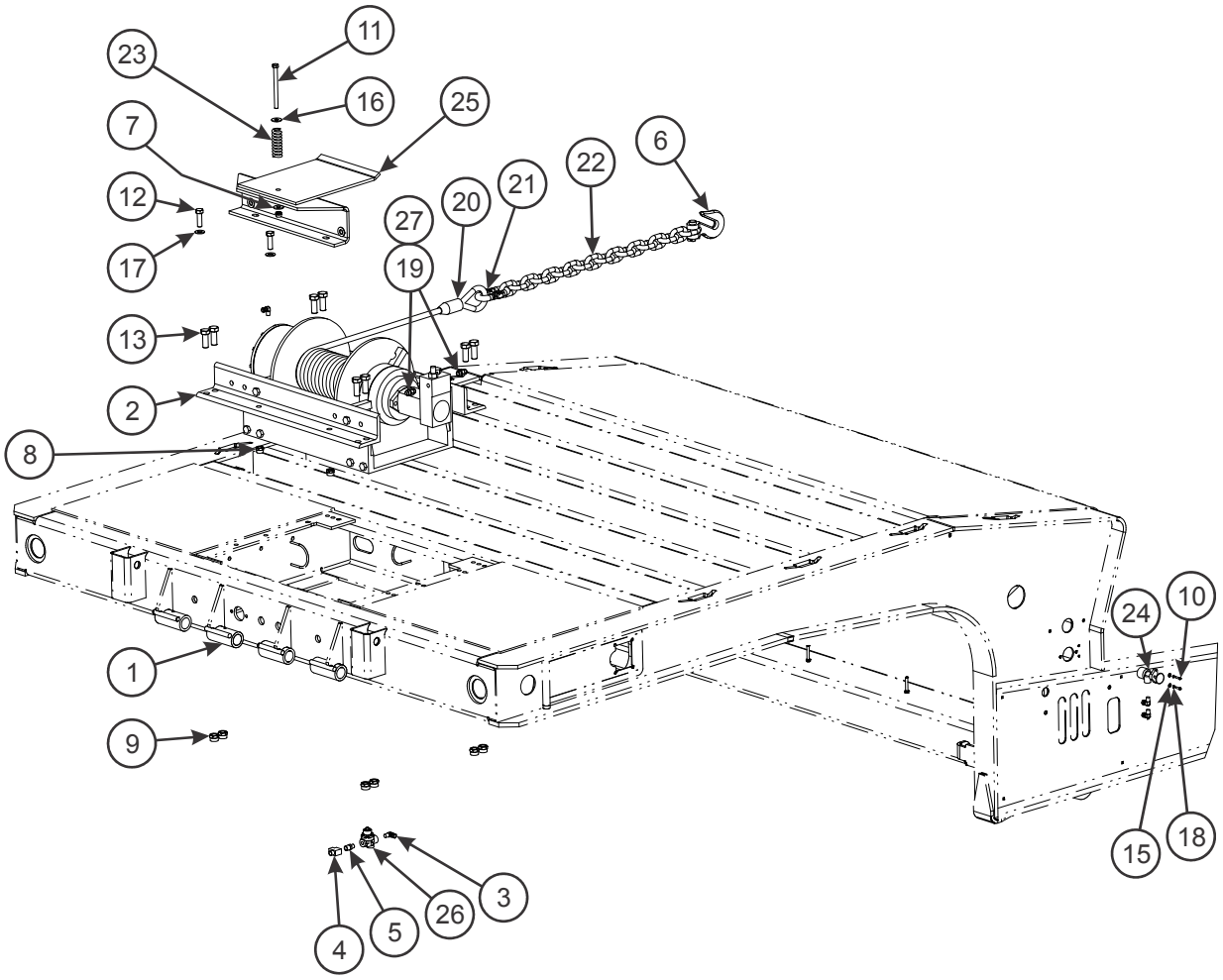


Figure 2-53: 30,000 Lb. Upper Deck Winch Installation

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 2-96)	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
	167692	FILTER	*1,2
27	1-397-010302220	HOSE ASSEMBLY 1/2 X 220 (NOT SHOWN)	2

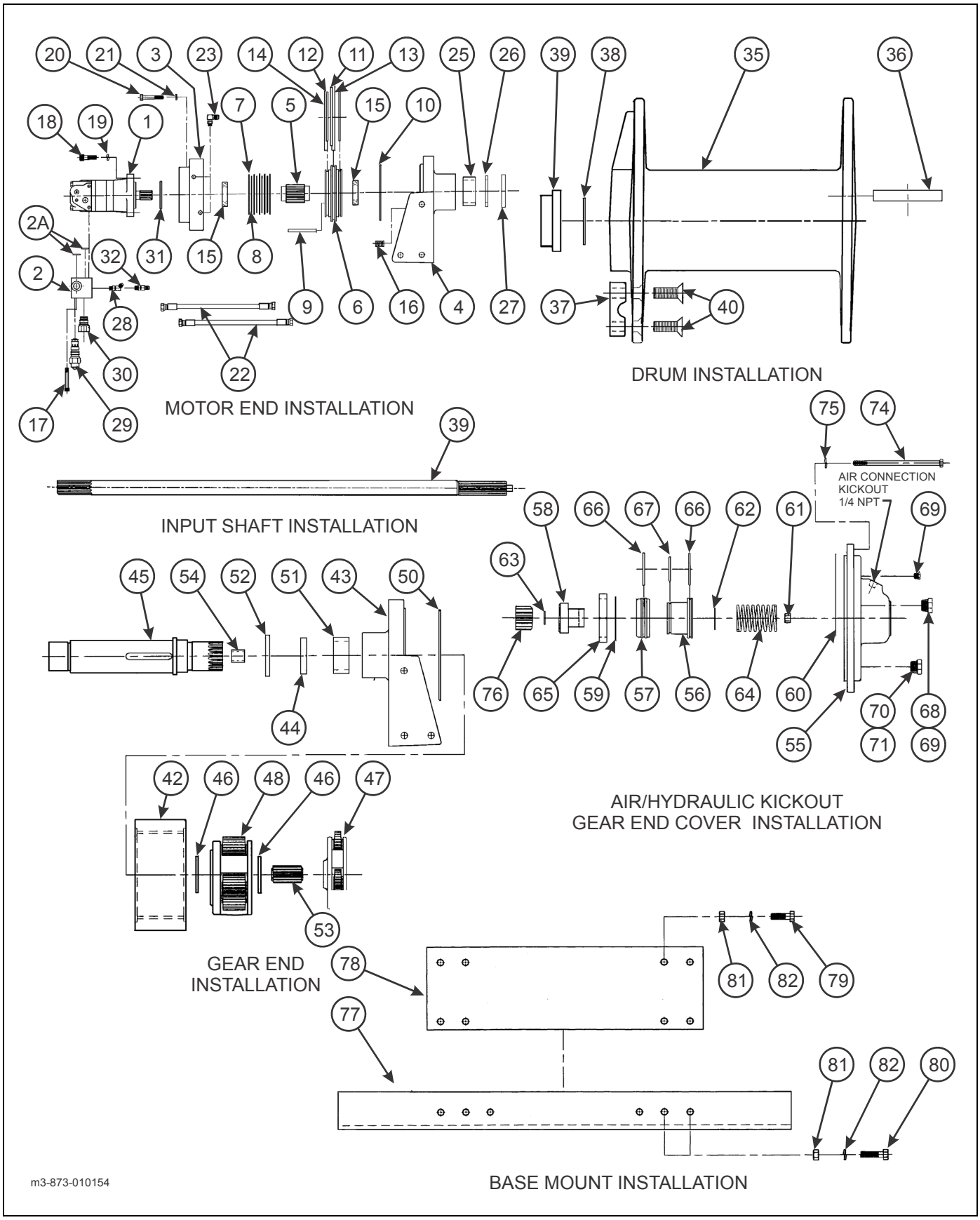


Figure 2-54: 30,000 Lb. Winch Items

30,000# WINCH ITEMS (DP)

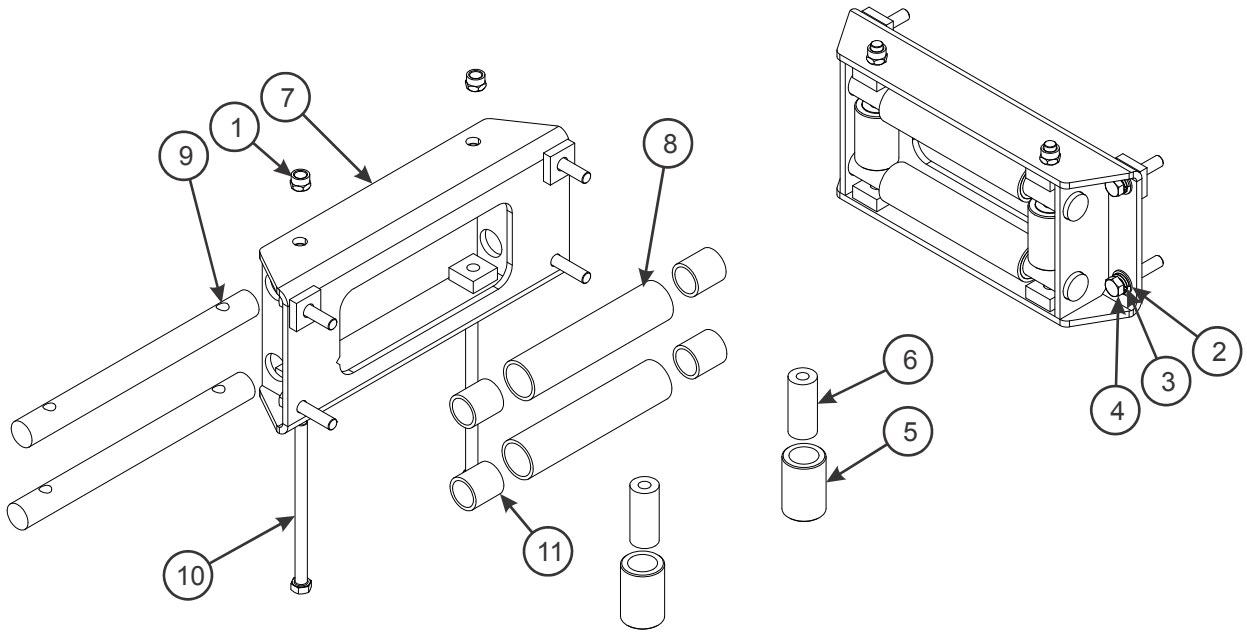
ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010154	-----	MOTOR END INSTALLATION	
1	137887	73067	MOTOR, HYDRAULIC	1
2	137888	11604	VALVE, COUNTERBALANCE	1
2A	-----	9817	O-RING, 1/8 I.D. X 3/32 SECTION	2
3	-----	11535	BRAKE, HOUSING	1
4	-----	13299	SUPPORT, MOTOR END	1
5	-----	11750	SHAFT, BRAKE	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	137993	9844	O-RING, 6-3/4 I.D. X 7 O.D. X 1/8 SECTION	1
11	137994	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	137421	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION	2
13	-----	9854	RING, BACK-UP 6-1/4 X .183	1
14	137422	9852	RING, BACK-UP 5.278 ID X .076	1
15	-----	81434	BEARING BALL 1-3/4 I.D.	2
16	-----	2319	SPRING, COMPRESSION	12
17	-----	1345	SCREW, HEX HEAD CAP 3/8-16 X 2-1/2	3
18	-----	1143	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2	2
19	-----	1144	WASHER, LOCK HI COLLAR 1/2	2
20	-----	1376	SCREW, HEX HEAD CAP 7/16 X 2-1/2	6
21	-----	1388	WASHER, LOCK 7/16	6
22	-----	75038	HOSE, 1/4R1 X 12”	2
23	-----	76017	ADAPTER, 90	2
24	-----	10708	TAG WARNING (NOT SHOWN)	1
25	-----	81454	BEARING, ROLLER TORRINGTON	1
26	-----	13288	WASHER, THRUST BRONZE 3.81 X .406	1
27	137880	9890	SEAL SHAFT 3-1/8 I.D. X 4 O.D. X 3/8 THICK	1
28	137641	76029	ADAPTER, 45	1
29	137883	3177	CARTRIDGE, COUNTERBALANCE	1
30	137884	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	1
31	137882	9880	O-RING 3 I.D. X 1/8 SECTION	1
32	137642	76027	ADAPTER, STRAIGHT #4 O-RING	1
33	137885	9400	DISC BRAKE KIT (INCLUDES ITEMS 7-8, 16)	1
34	137886	9406	BRAKE PISTON MOTOR END KIT (INCLUDES ITEMS 10-14)	1
			DRUM INSTALLATION	
35	-----	13285	DRUM	1
36	-----	13293	KEY DRUM	2
37	137569	12518	CLIP, CABLE THREADED	1
38	-----	9602	O-RING 2-3/4 ID X 3 O.D. X 1/8 SECTION	1
39	-----	13286	SPACER	1
40	137570	1587	SCREW, FLAT SOCKET HEAD CAP 5/8-11 X 1-3/4	2

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
			INPUT SHAFT INSTALLATION	
41	-----	13317	SHAFT, INPUT	1
			GEAR END INSTALLATION	
42	-----	3126	GEAR, RING	1
43	-----	13300	SUPPORT, GEAR END	1
44	-----	13288	WASHER, THRUST	1
45	-----	13301	SHAFT, OUTPUT	1
46	-----	13164	WASHER, THRUST NYLON 3-1/2 OD X 3/16 SECTION	2
47	-----	12486	CARRIER ASSEMBLY PRIMARY	1
48	-----	12516	CARRIER ASSEMBLY SECONDARY	1
49	-----	10848	LABEL WARNING (NOT SHOWN)	1
50	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
51	-----	81454	BEARING	1
52	137880	9890	SEAL SHAFT	1
53	-----	13306	GEAR SUN	1
54	-----	81608	BUSHING ID 1-1/4 OD X 1 LG	1
			AIR/HYD. KICKOUT GEAR END COVER INSTALLATION	
55	-----	13675	COVER, GEAR END	1
56	-----	13295	PISTON AKO B/C/D	1
57	-----	13296	CYLINDER, PISTON	1
58	-----	13297	COUPLING, DRIVE	1
59	-----	3632	RING, RETAINING RD SEC 3 O.D. X .10 SEC	1
60	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
61	-----	81612	BUSHING, BRONZE 3/8 I.D. X 3/8 L	1
62	-----	3303	RING, RETAINING 1-1/4	1
63	-----	3321	RING, RETAINING RD SEC .805 I.D.	1
64	-----	2309	SPRING, COMPRESSION	1
65	-----	13288	WASHER, THRUST BRONZE 3.81 X .406 W	1
66	137881	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
67	-----	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
68	105967	76344	PLUG, SKT HD O-RING #10 7/8 - 14	1
69	-----	9992	O-RING .755 I.D. X .097 W 3-910	1
70	105954	76343	PLUG, SKT HD O-RING MAG #10	1
71	-----	9992	O-RING .755 I.D. X .097 W 3-910	1
72	-----	1157	CAPLUG #4 RED (NOT SHOWN)	1
73	105953	3059	RELIEF VENT	1
74	-----	1317	SCREW, HEX HEAD CAP 3/8-16 X 5-1/2	12
75	-----	1395	WASHER, LOCK 3/8	12
76	-----	13235	GEAR, SUN 15 TEETH	1
			BASE MOUNT INSTALLATION	
77	-----	11990	BASE ANGLE	2
78	-----	12005	PLATE, SIDE	2
79	-----	1504	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
80	-----	1505	SCREW, HEX HEAD CAP 5/8-11 X 2-1/4 GR5	8
81	-----	1590	NUT, HEX 5/8 - 11 GR2	12
82	-----	1595	WASHER, LOCK 5/8 MEDIUM PLAIN	12
83	-----	10466	PLATE, INFORMATION (NOT SHOWN)	1
84	-----	1165	RIVET, DRIVE U TYPE #2 X 1/4 LONG (NOT SHOWN)	4



m122333

Figure 2-55: Winch Roller Guide - 30K

WINCH ROLLER GUIDE - 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	122333	WINCH ROLLER GUIDE - 30K PLNTY DP	
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

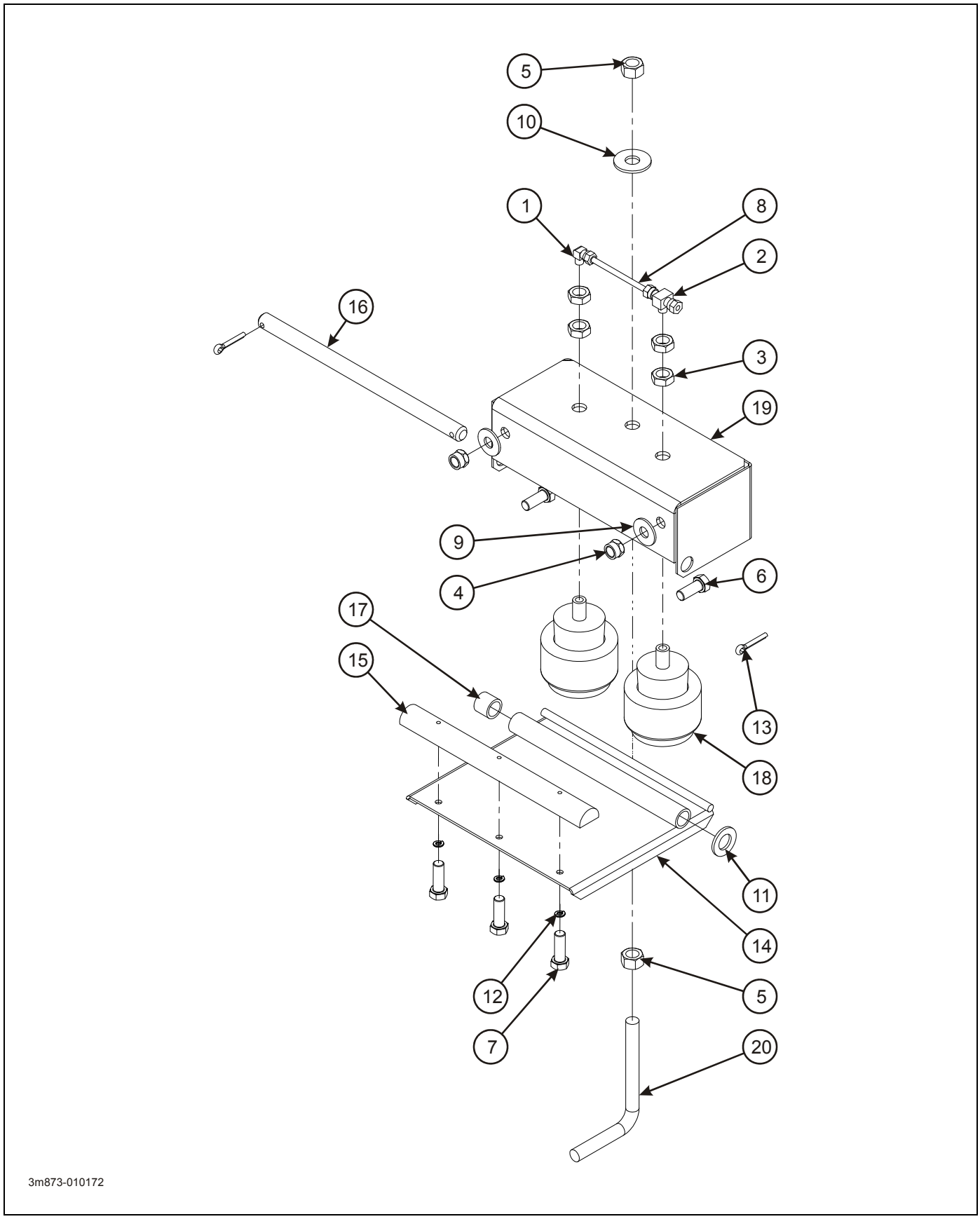


Figure 2-56: Winch, Cable Air Tension

WINCH, CABLE AIR TENSION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010172	WINCH CABLE AIR TENSION 30K	
1	1-297-010008-05	FITTING, AIR 90	1
2	1-297-010015-02	FITTING, AIR TEE	1
3	1-511-010001-07	NUT, HEX JAM 5/8-11	4
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
5	1-512-010007-11	NUT, HEX 5/8-11 GRB	2
6	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	2
7	1-654-010047-04	SCREW, HEX HEAD CAP 1/4/20 X 3/4 GR5	3
8	1-833-010001	TUBING, NYLON 1/4OD	1
9	1-861-010032-15	WASHER, FLAT 1/2W	2
10	1-861-010032-19	WASHER, FLAT 5/8W	1
11	1-861-010032-20	WASHER, FLAT 3/4N	1
12	1-861-010034-09	WASHER, SPLIT LOCK 1/4	3
13	119084	PIN, COTTER 1/4 X 1-1/2	2
14	132103	ARM WELDMENT, LEVEL WIND	1
15	132104	RUB BAR	1
16	133938	PIVOT PIN	1
17	133941	SPACER	1
18	137028	AIR SPRING 30K WINCH TENSION	2
19	160094	MOUNTING BRACKET, LEVEL WIND	1
20	161573	ADJUSTMENT BOLT LEVEL WIND	1

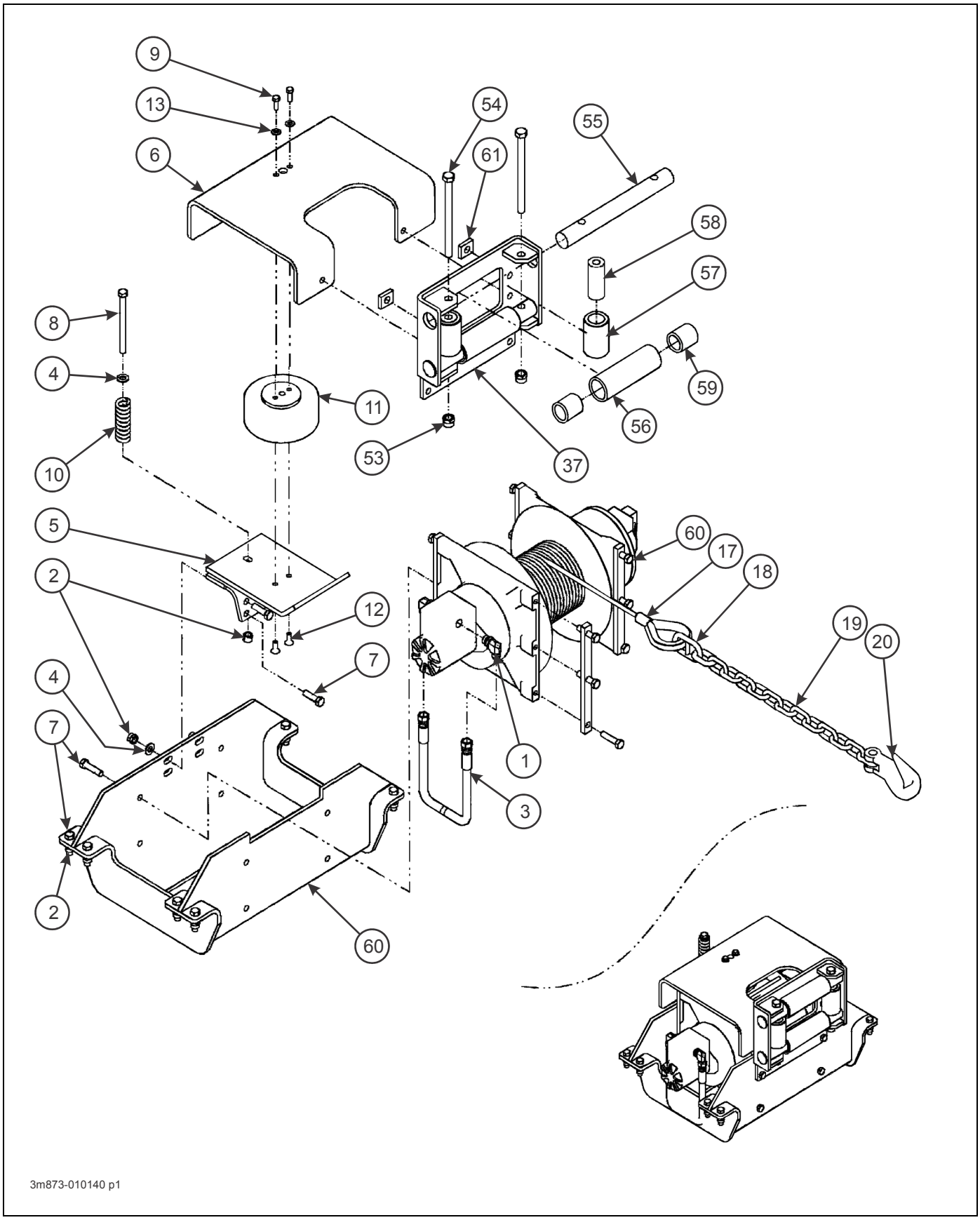


Figure 2-57: 12K, 15K, & 20K Upper Deck Winch (DP)
(1 of 2)

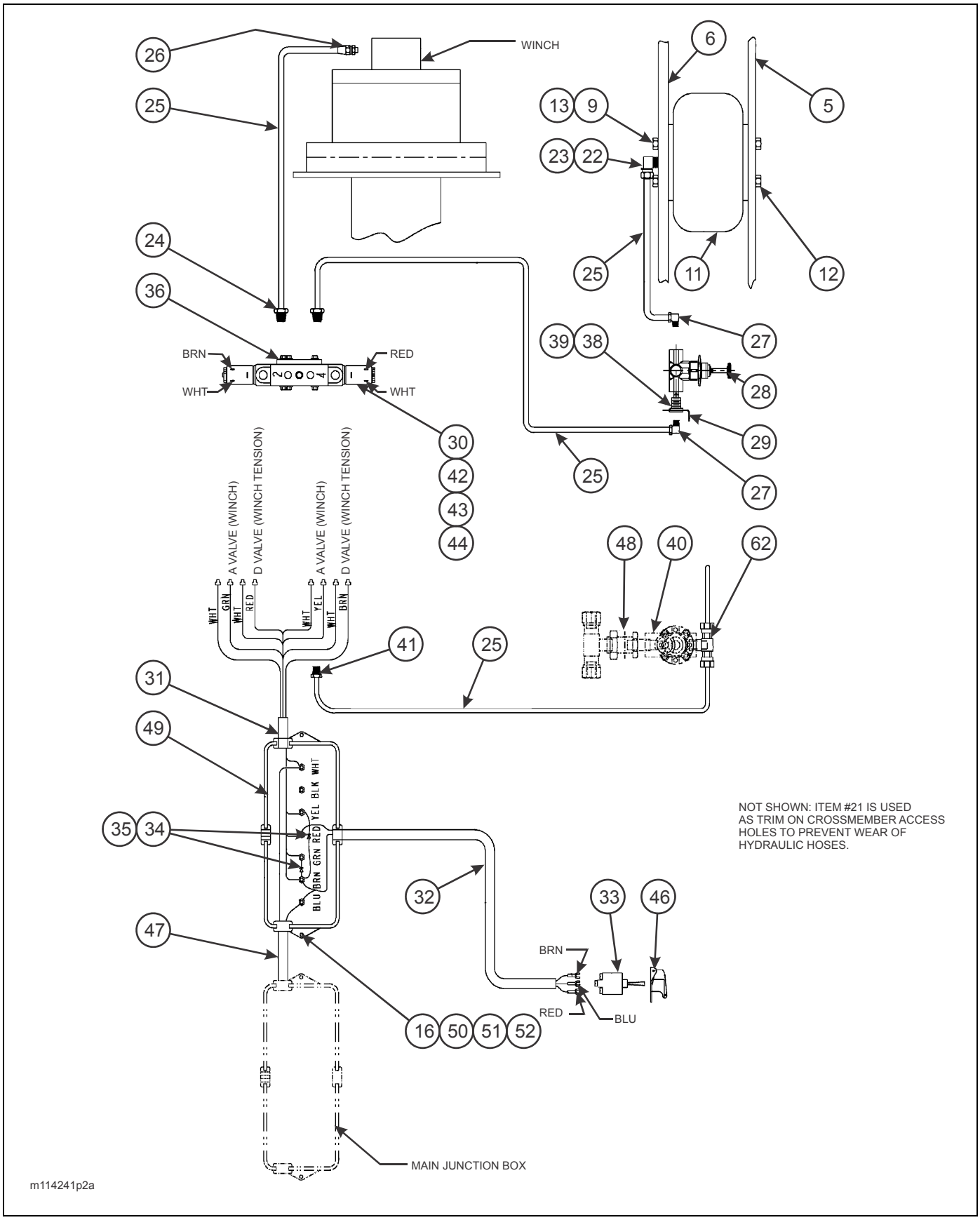


Figure 2-58: 12K, 15K, & 20K Upper Deck Winch (DP) (2 of 2)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	114241	WINCH INSTALLATION 12K, 15K, 20K DP	REF
	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	3-155-010018-6	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	2-272-010109	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
	167692	FILTER	1
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
46	3-348-010048	GUARD, SWITCH - 3 POSITION (*)	1

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

ITEM	PART NO.	DESCRIPTION	QTY.
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 2-108 FOR WINCH BREAKDOWNS)	
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
62	1-297-010015-03	FITTING, AIR BR TEE	1

*USED ON AIR TENSION RELEASE MODELS

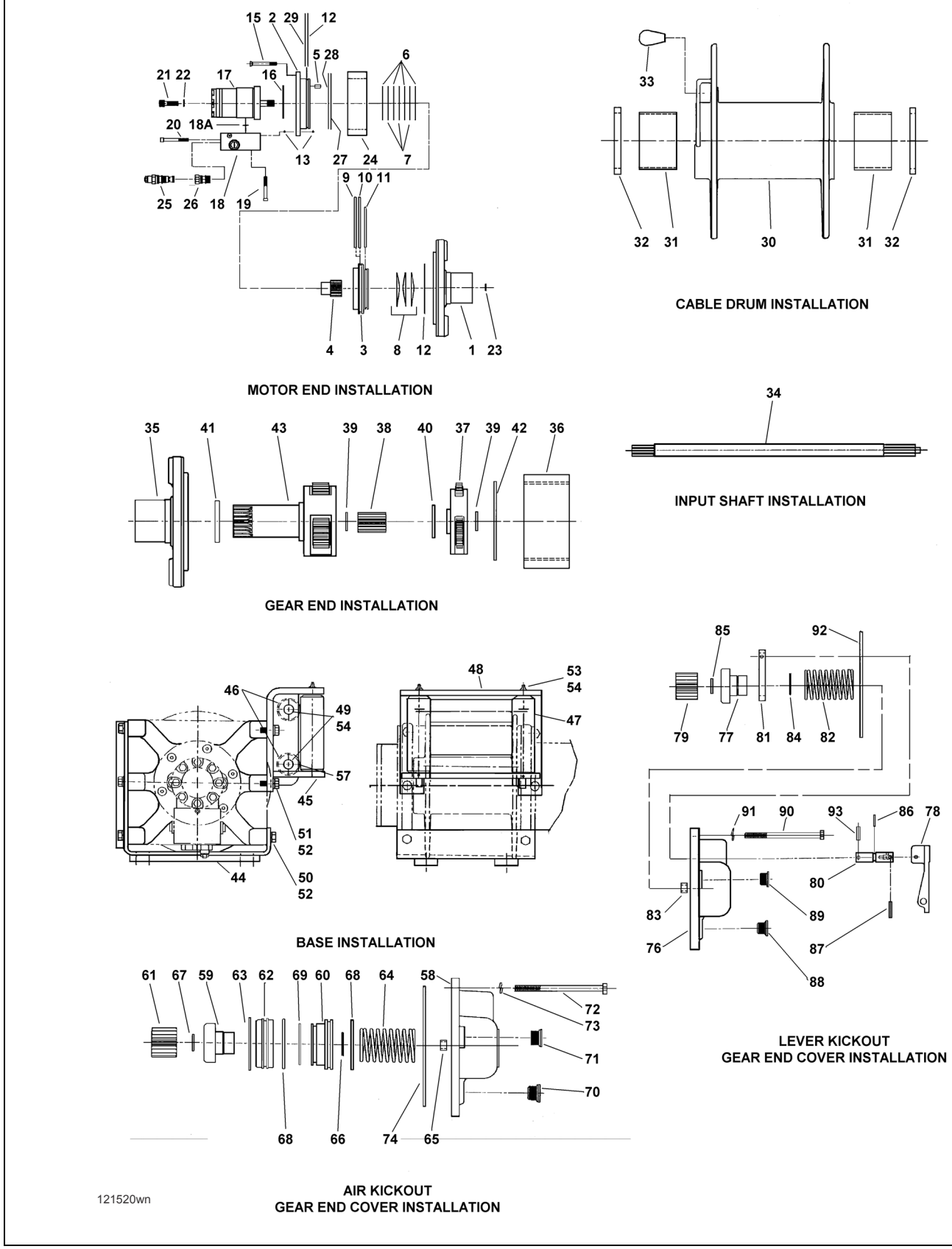


Figure 2-59: 12K, 15K, & 20K Winch Items (DP Planetary)

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

ITEM	PART NO.	REFERENCE 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	137424	9843	O-RING	2
13	137425	9612	O-RING	2
14	-----	3440	PLUG, EXPANDER **(NOT SHOWN)**	2
15	180586	4346-8	CAP SCREW, SKT HEAD FL 3/8NC X 3 GR8	6
16	141547	9637	O-RING	1
17	-----	-----	MOTOR, HYDRAULIC -12K	1
	112641	73216	MOTOR, HYDRAULIC -15K	1
	176681	73218	MOTOR, HYDRAULIC - 20K	1
18	13894	13894	VALVE ASSEMBLY, COUNTERBALANCE	1
18A	141456	9821	O-RING	2
19	180585	1167	CAP SCREW SOCKET HEAD 5/16-18 X 2	4
20	180584	4076	CAP SCREW SOCKET HEAD 1/4-20 X 4-1/2	1
21	172903	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	212367	70040	CARTRIDGE	1
26	212369	70042	PLUG, SUN	1
27	137426	9600	O-RING	1
28	137427	9711	RING, BACKUP	1
29	137428	9846	RING, BACKUP	1
			CABLE DRUM INSTALLATION	
30	-----	12401	DRUM	1
31	-----	11947	BEARING - BRONZE	2
32	-----	9929	SEAL SHAFT	2
33	156528	10529	CLIP - CABLE 7/16	1
			INPUT SHAFT INSTALLATION	
34	-----	13678	INPUT SHAFT	4
			GEAR END INSTALLATION	
35	-----	13605	SUPPORT, END GEAR	1

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
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	1168	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
78	-----	14099	LEVER, KICKOUT	1
79	-----	13386	GEAR, SUN	1
80	-----	14181	SHAFT, SIFTER	1

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
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	1168	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 THE SERIAL NO. FOR WINCH. THE SERIAL NO. IS LOCATED ON SERIAL NO. TAG ON WINCH BASE AND STAMPED INTO TOP OF MOTOR END SUPPORT.

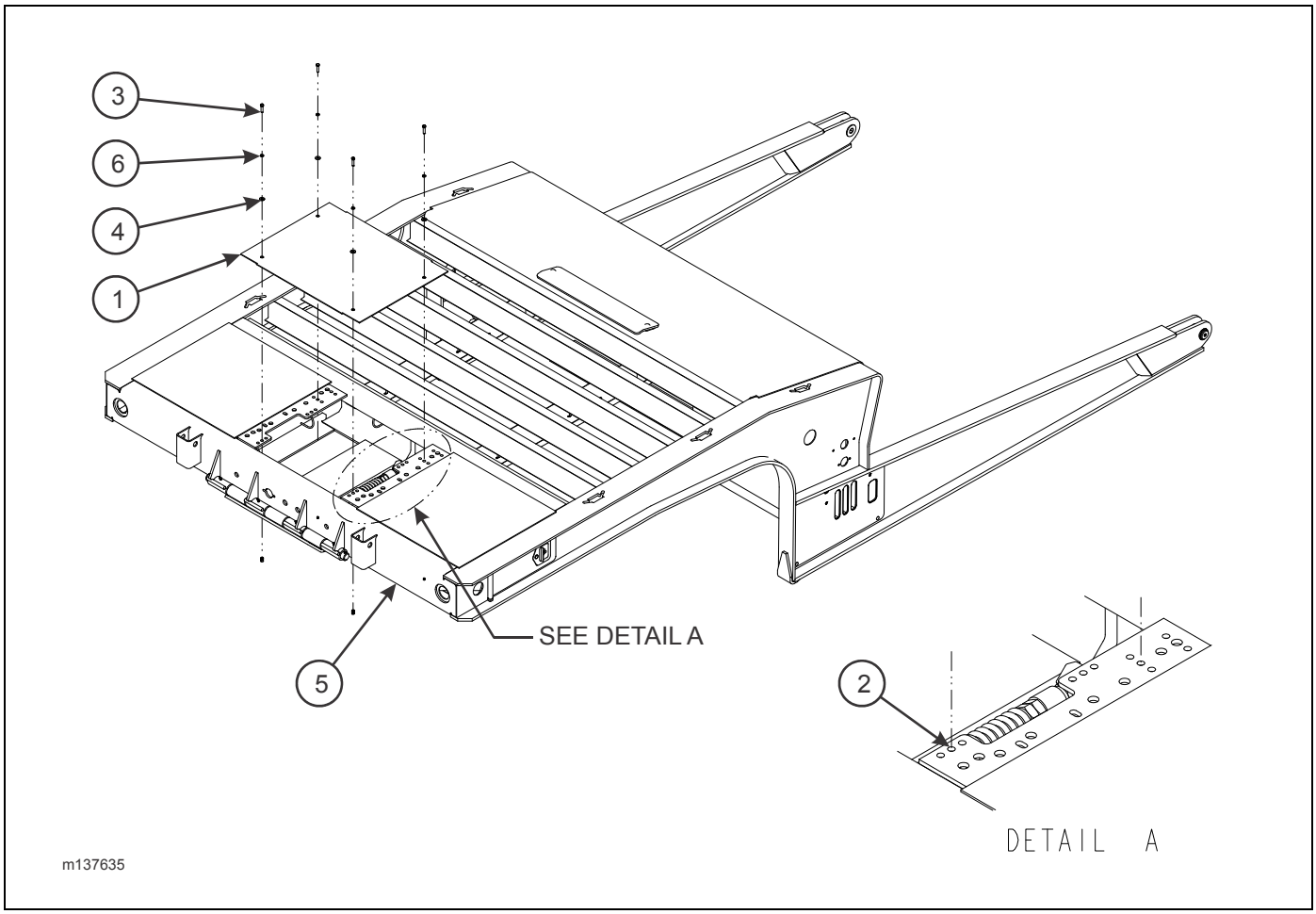


Figure 2-60: Upper Deck Cover Assembly (Option)

UPPER DECK COVER ASSEMBLY (OPTION)

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

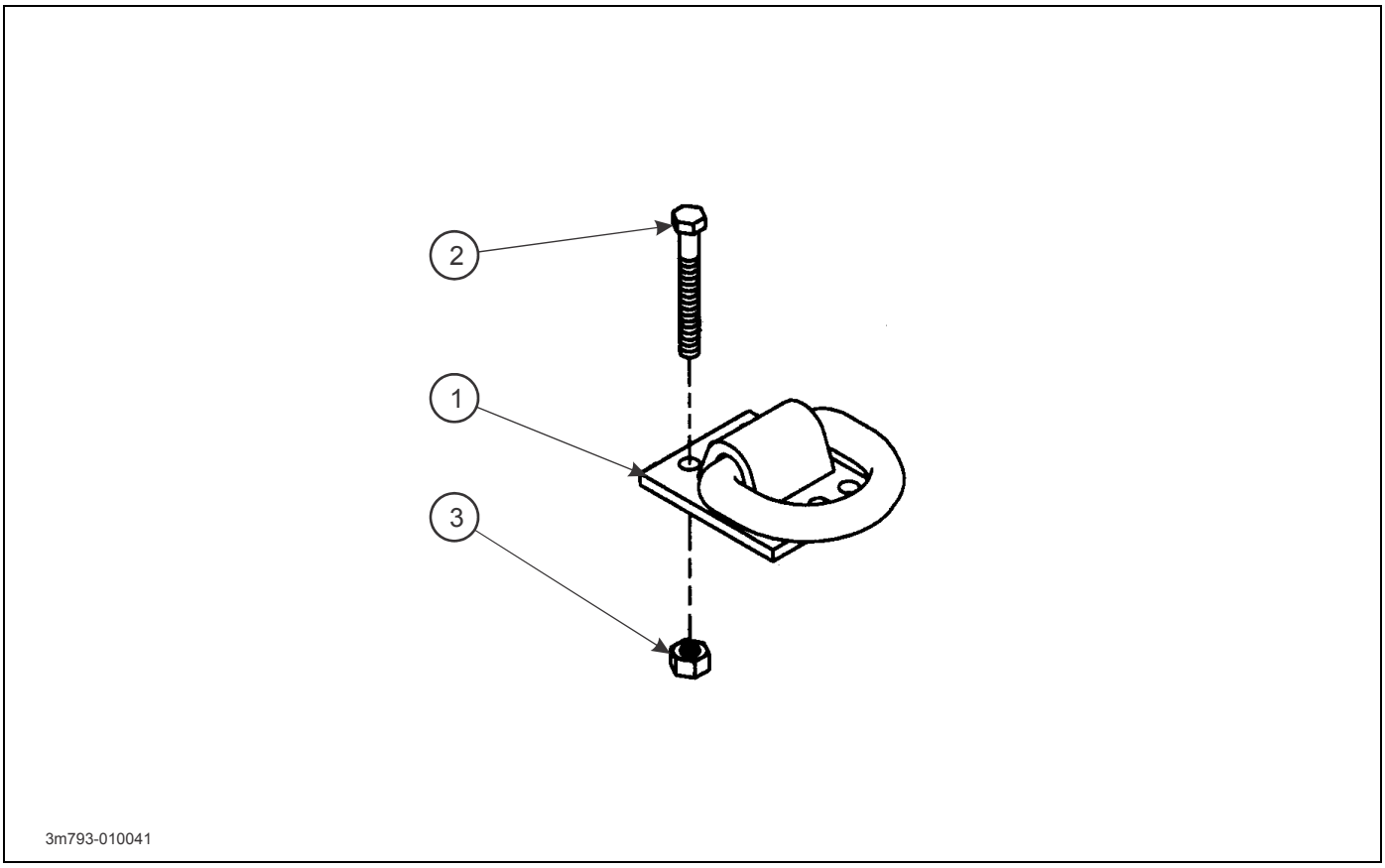


Figure 2-61: Tie Down Installation (Option)

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

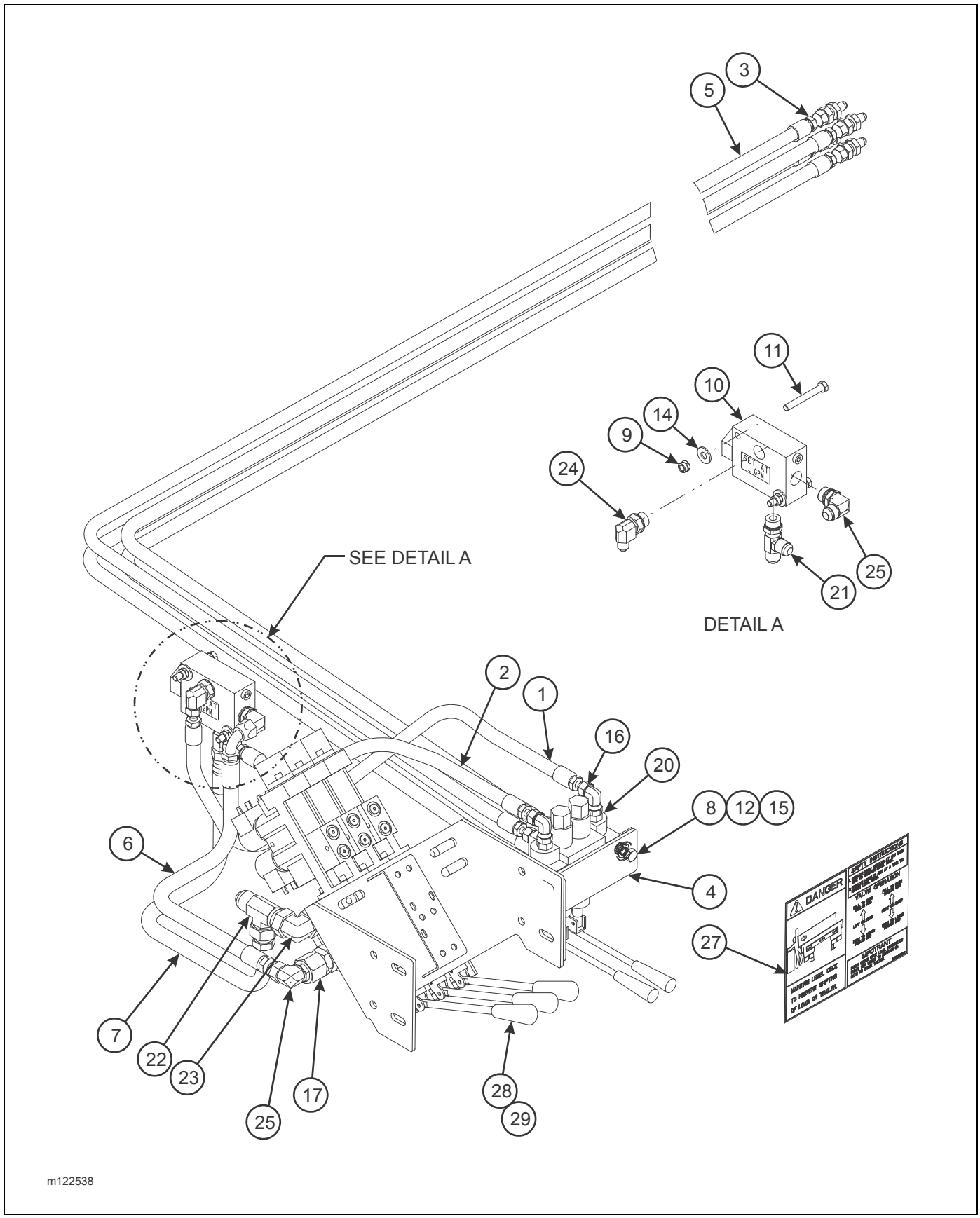


Figure 2-62: Dock Leveler Hydraulic Installation (Option)

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	
	129099	DOCK LEVELER HYDRAULIC INST 425-45	
	123211	DOCK LEVELER HYDRAULIC INST 425-41	
1	111302	HOSE ASSEMBLY 3/8 X 24	1
2	116429	HOSE ASSEMBLY 3/8 X 25	1
3	102-1097	37 FLARE BULKHEAD/ 37 FLARE	4
4	121124	BRACKET, VALVE DOCK LEVEL CONTROL	1
5	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
	1-397-010307296	HOSE ASSEMBLY 3/8 X 296 (45')	4
6	1-397-010302018	HOSE ASSEMBLY 1/2 X 18	1
7	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1
8	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
9	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
10	1-626-010002-03	REGULATOR FLOW 1/2 BYPASS ONLY	1
	1-626-010002-06	REGULATOR, FLOW 1-1/2-6 (141639)	1
11	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2
12	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
13	1-796-010003-02	TIE, STRAP PLASTIC (NOT SHOWN)	AR
14	1-861-010032-09	WASHER FLAT 5/16W	2
15	1-861-010032-11	WASHER, FLAT 3/8W	2
16	102-0031	ADAPTER, 90	2
17	138179	POWER BEYOND REMOTE	1
	1V0208	POWER BEYOND REMOTE (131726 & 141638)	1
20	202702-6-6S	ADAPTER STRAIGHT	6
21	203005-8-8S	ADAPTER, TEE	1
22	203102-12-12S	ADAPTER TEE	1
23	2062-10-12S	ADAPTER 90	REF
24	2062-8-6S	ADAPTER 90°	1
25	2062-8-8S	ADAPTER 90°	2
26	3-201-010002	CONDUIT FLEX PLASTIC 3/8 (NOT SHOWN)	3
27	3-573-010202	DECAL, DANGER OP D/L (REAR) (SEE PAGE 2-130)	1
28	-----	VALVE, 3 SPOOL 2500 PSI	REF
29	3-846-010056	VALVE, DOUBLE SPOOL STACK (SEE PAGE 2-124,) BEFORE 01/15/2014	1
	179649	VALVE, DOUBLE SPOOL STACK, AFTER 01/15/2014	1

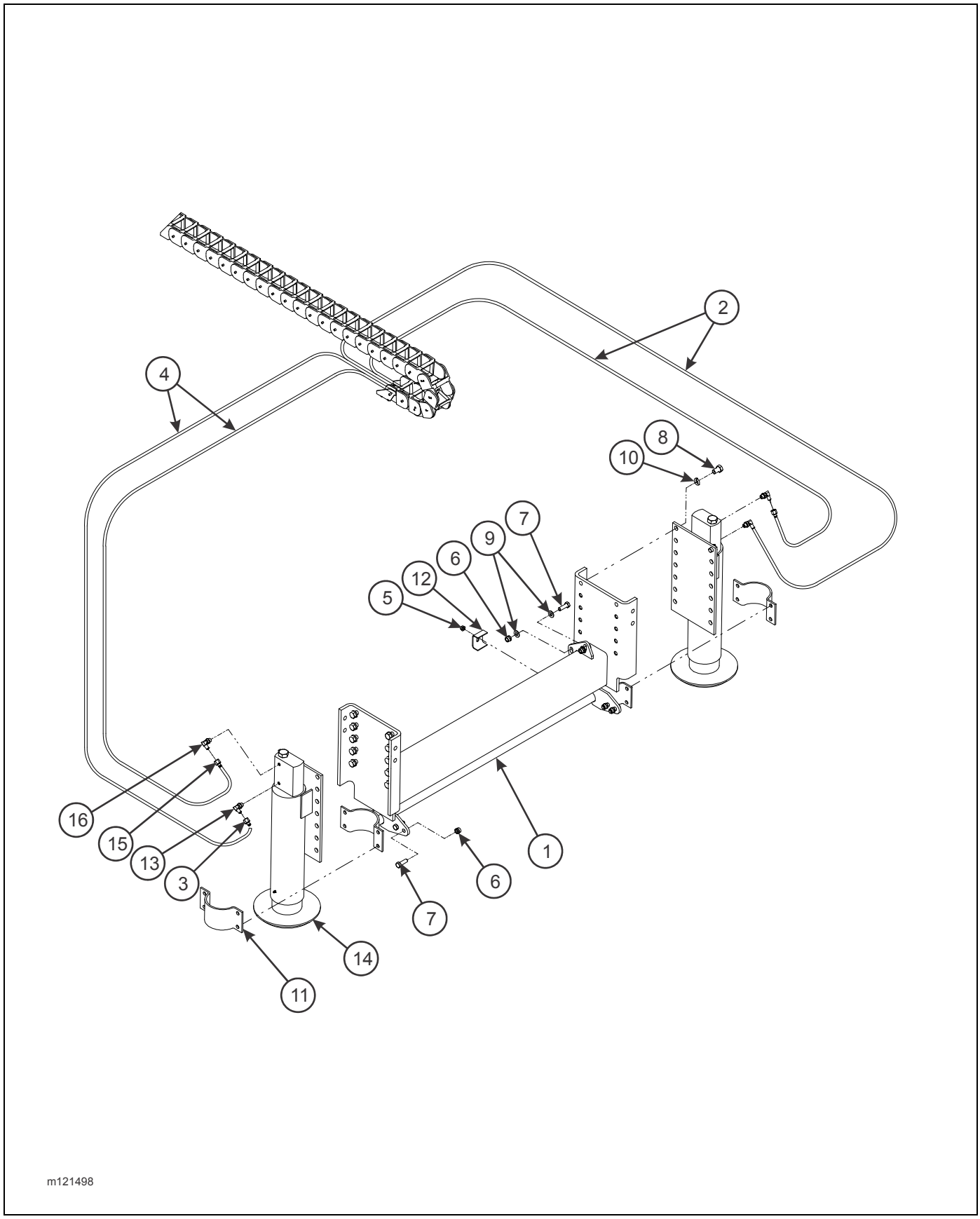


Figure 2-63: Dock Leveler Assembly, Single 60K

DOCK LEVELER ASSEMBLY, SINGLE 60K

ITEM	PART NO.	DESCRIPTION	QTY.
	121498	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	121402	MOUNT WELDMENT, D/L	1
2	122540	HOSE ASSEMBLY 1/4 X 240	2
3	1-007-010058	ADAPTER 90° 3/8 ELBOW W/ RESTR	2
4	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	2
5	1-510-010001	NUT FLANGE LOCK 3/8-16 GRB	5
6	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
7	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
8	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11 X 1 GR5	24
9	1-861-010032-14	WASHER FLAT 1/2N	8
10	1-861-010034-15	WASHER SPLIT LOCK 5/8	24
11	100348	MOUNTING BRACKET FOR CYLINDER	
12	2-181-010001	CLAMP HOSE	3
13	2062-6-4S	ADAPTER 90	4
14	3-242-010205	CYLINDER, HYD 4X15 (W/ COLLAR) (SEE PAGE 2-121)	2
15	202702-6-4S	ADAPTER, STRAIGHT	
16	138155	ADAPTER, 90	
17	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 (NOT SHOWN)	AR

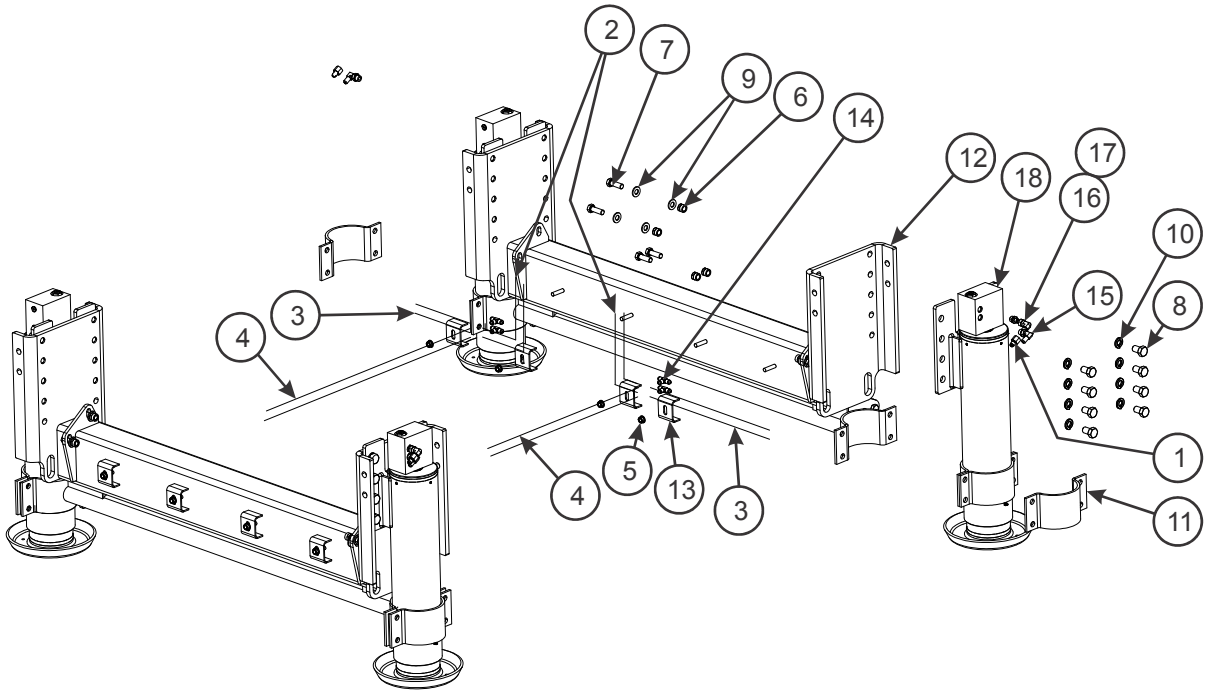
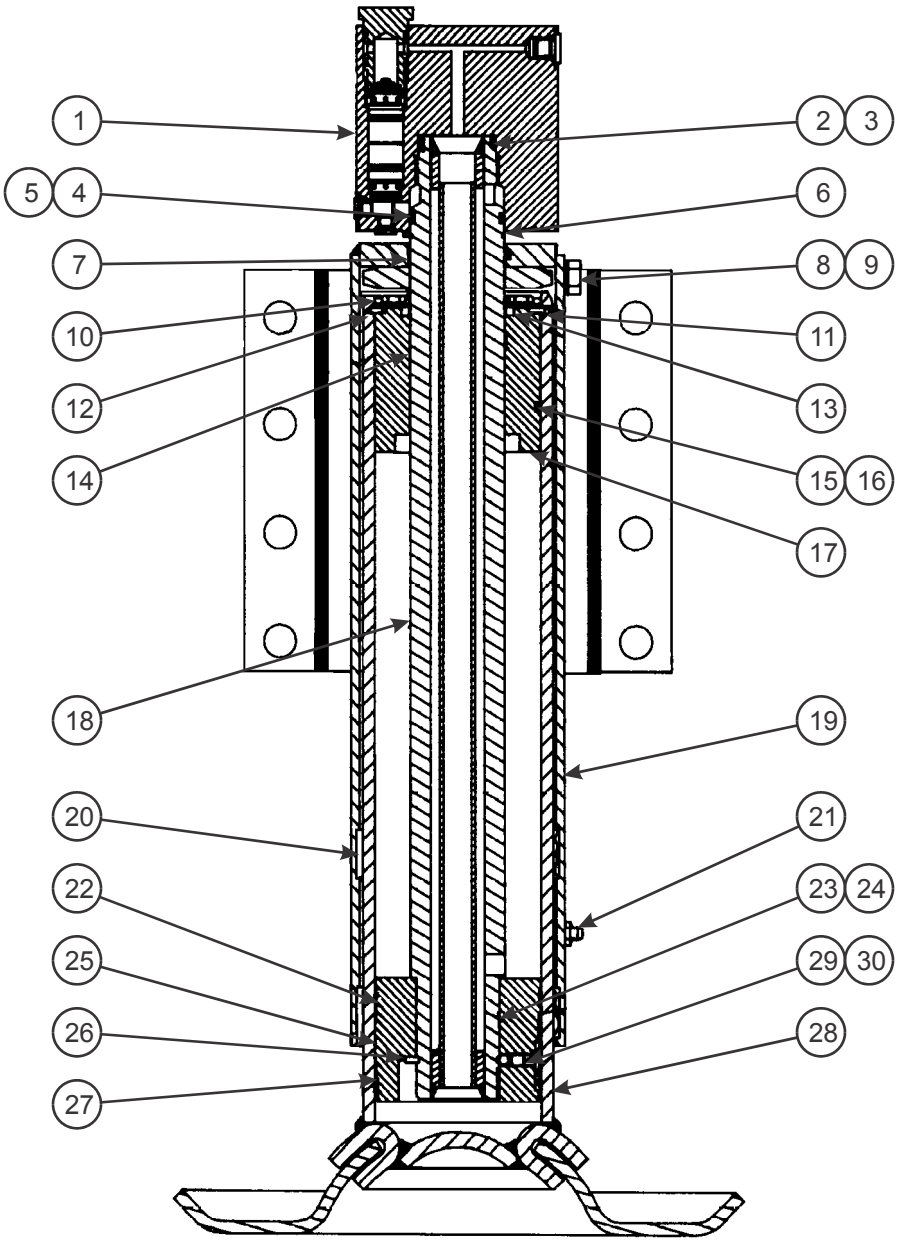


Figure 2-64: Dock Leveler Assembly, 120K

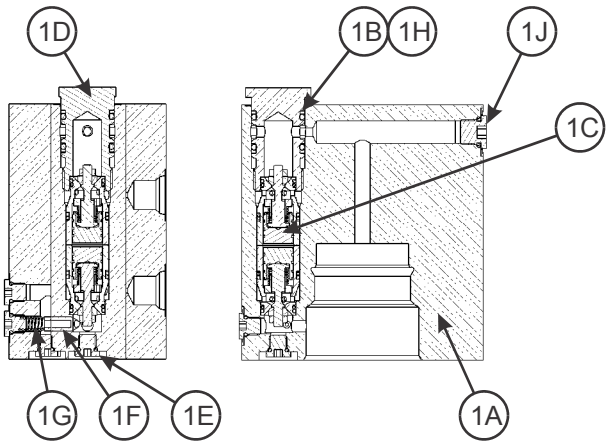
DOCK LEVELER ASSEMBLY, 120K

ITEM	PART NO.	DESCRIPTION	QTY.
	126537	DOCK LEVEL ASSEMBLY SINGLE 120K	
1	1-007-010058	ADAPTER 90° 3/8 ELBOW W/ RESTR	4
2	1-397-010262-5	HOSE ASSEMBLY 1/4 X 216	4
3	1-397-010262028	HOSE ASSEMBLY 1/4 X 28	4
4	1-397-010262100	HOSE ASSEMBLY 1/4 X 100	2
5	1-510-010001	NUT FLANGE LOCK 3/8-16 GRB	8
6	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	16
7	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	16
8	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11 X 1 GR5	32
9	1-861-010032-14	WASHER FLAT 1/2N	16
10	1-861-010034-15	WASHER SPLIT LOCK 5/8	32
11	100348	MOUNTING BRACKET FOR CYLINDER	REF
12	121402	MOUNT WELDMENT, D/L	2
13	2-181-010001	CLAMP HOSE	8
14	2033-4-4S	ADAPTER, TEE	4
15	2062-6-4S	ADAPTER 90	4
16	138155	ADAPTER, 90	4
17	202702-6-4S	ADAPTER, STRAIGHT	4
18	3-242-010205	CYLINDER, HYD 4X15 (W/ COLLAR) (SEE PAGE 2-121)	4
19	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 (NOT SHOWN)	AR

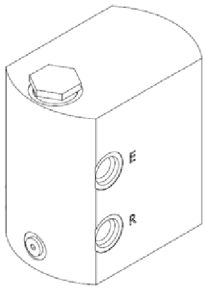


dock leg op p1

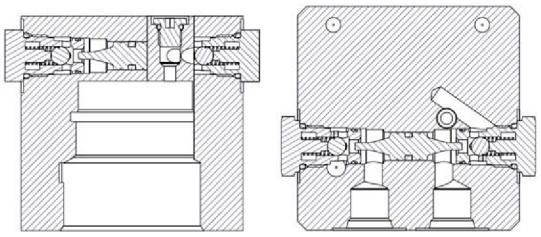
Figure 2-65: Dock Leveler Leg Assembly w/ Lock Valve (1 of 2)



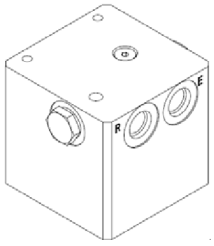
SIDE SECTION FRONT SECTION



STABILIZER LEG
CHECK VALVE
(PRIOR TO 03/19/2010)



FRONT SECTION TOP SECTION



STABILIZER LEG
CHECK VALVE
(AFTER 03/19/2010)

dock leg op p2

Figure 2-66: Dock Leveler Leg Assembly w/ Lock Valve (2 of 2)

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	3-242-010205		COMPLETE ASSEMBLY LEG CYL (60,000# CAP. 4.00" BORE)	
1	165769		VALVE SERVICE KIT (AFTER 03/19/2010)	1
	165768		VALVE RETROFIT KIT (AFTER 03/19/2010)	1
	300092	300092	VALVE SERVICE KIT (PRIOR TO 03/19/2010) (INCL. ITEMS 1A - 1I)	1
1A	-----	300093	4:1 LOCK VALVE BODY	1
1B	-----	01-1006	O-RING	2
1C	-----	300427	PILOT OPERATED CHECK VALVE	2
1D	-----	300022	RETAINING PLUG	1
1E	-----	07-1061	HEX PLUG HOLLOW #02 SAE	5
1F	-----	300003	POPPET	1
1G	-----	31-1016	SPRING	1
1H	-----	05-1009	BACK-UP WASHER	2
1J	-----	07-1201	HEX PLUG HOLLOW #04 SAE	1
2	-----	NSS*,**	O-RING	1
3	-----	NSS*,**	BACK-UP WASHER	2
4	-----	NSS*,**	O-RING	1
5	-----	NSS*,**	BACK-UP WASHER	1
6	-----	NSS**	SNAP RING 2" ROD	1
7	-----	NSS**	O-RING	1
8	-----	15-1021	SCREW HEX HEAD CAP	1
9	-----	16-1002	LOCK WASHER	1
10	-----	15-1012	SCREW HEX HEAD CAP	4
11	-----	100279	CYLINDER HEAD RETAINER	1
12	-----	NSS**	RETAINING RING	1
13	-----	NSS**	OIL SEAL	1
14	-----	NSS**	ROD SEAL	1
15	-----	NSS**	O-RING	1
16	-----	NSS**	BACK-UP WASHER	1
17	-----	100276	CYLINDER HEAD	1
18	-----	***	PISTON ROD	1
19	-----	***	WELL TUBE	1
20	-----	NSS**	WEAR RING	2
21	-----	10-1001	GREASE FITTING	1
22	-----	NSS**	PISTON SEAL	1
23	-----	NSS**	O-RING	1
24	-----	NSS**	BACK-UP WASHER	2
25	-----	NSS**	WEAR RING	1
26	-----	17-1003	SNAP RING	1
27	-----	***	PISTON	1
28	-----	***	CYLINDER TUBE	1
29	-----	NSS**	NYLON BALL	1
30	-----	NSS**	SET SCREW	1
31	100348		SPLIT COLLAR ASSEMBLY (60,000 LB.)(NOT SHOWN) (INCL. THE FOLLOWING:)	1
	-----	NSS	SPLIT COLLAR HALF (60,000 LB.)	2
	-----	NSS	LEG COLLAR MOUNTING KIT	1
	-----	NSS	SCREW, HEX HEAD CAP 1/2-20 X 2 GR5	4
	-----	NSS	NUT, HEX LOCK 1/2-20	4
	-----	NSS	SPACER, SPLIT COLLAR	4

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.

* - THESE 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

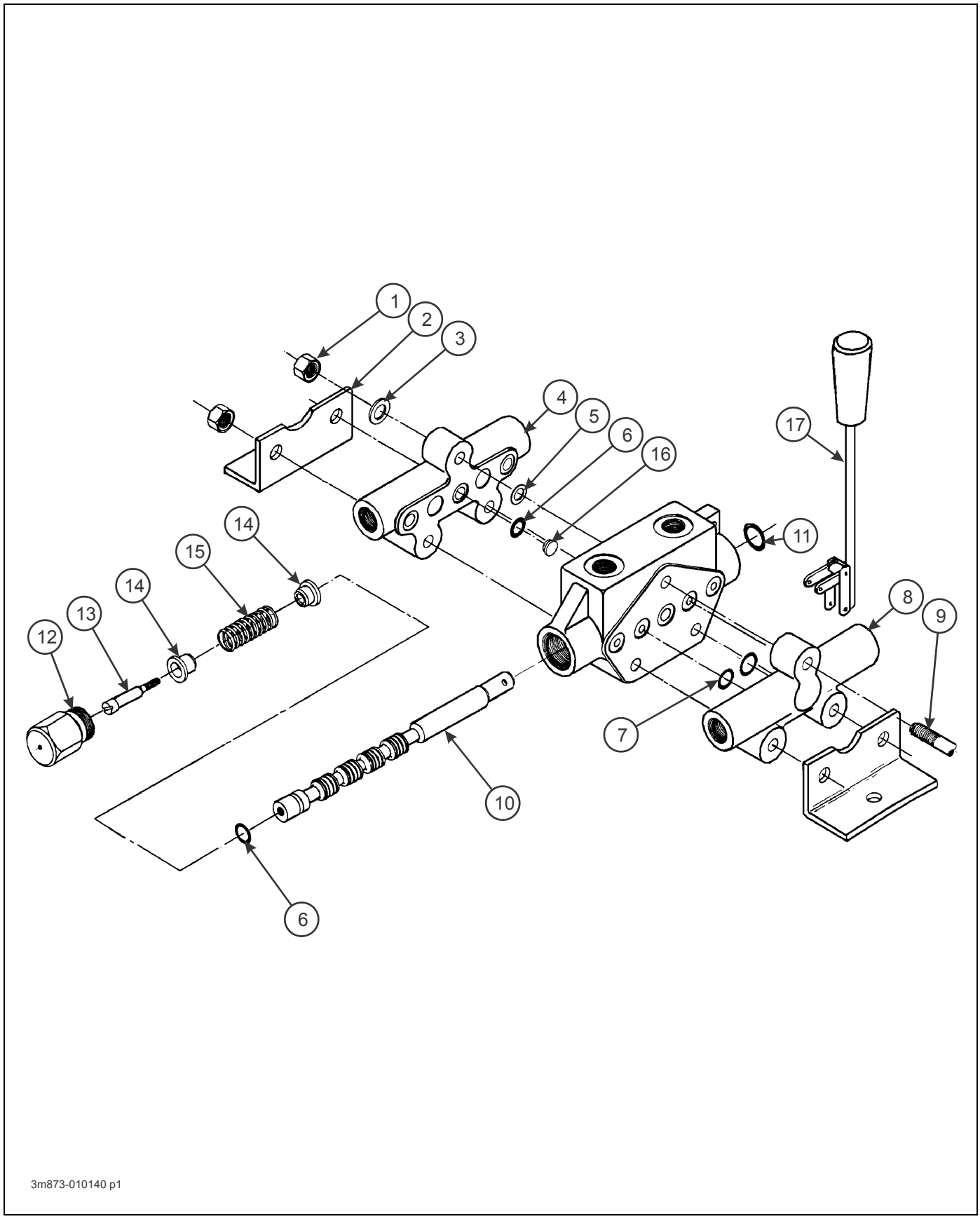


Figure 2-67: Dock Leveler Valve

DOCK LEVELER VALVE

ITEM	PART NO.	REFERENCE 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	4010520	SPRING SHAFT	2
14	4010530	4010530	SPRING GUIDE	4
15	-----	————-	SPRING	2
16	-----	4011702	CLOSED CENTER PLUG	1
	6405000	6405000	HANDLE KIT	2
	-----	6404002	BANKING KIT (INCLUDES ITEMS 1, 2, 3, & 9)	2

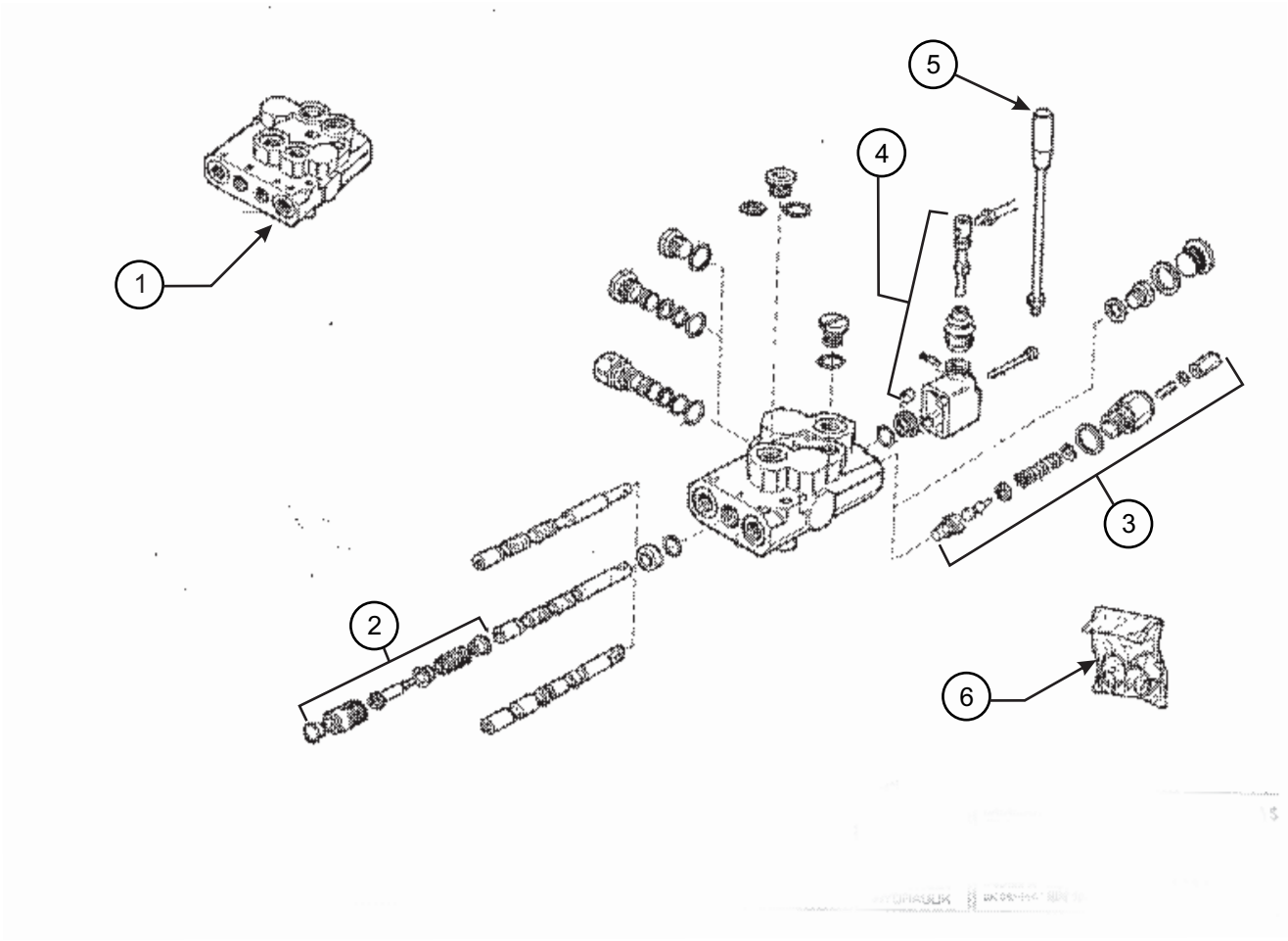


Figure 2-68: Dock Leveler Valve (After 01/15/2014)

DOCK LEVELER VALVE (After 01/15/2014)

ITEM	PART NO.	DESCRIPTION	QTY.
1	179649	DOUBLE SPOOL STACK VALVE-PARALLEL,	
2	20768510010	SPOOL POSITIONER SPRING CENTER	1
3	20787400710	RELIEF VALVE ASSEMBLY	1
5	200707010070	SPOOL OPERATOR	1
6	200702210230	HANDLE	1
7	200773800350	SEAL KIT	1

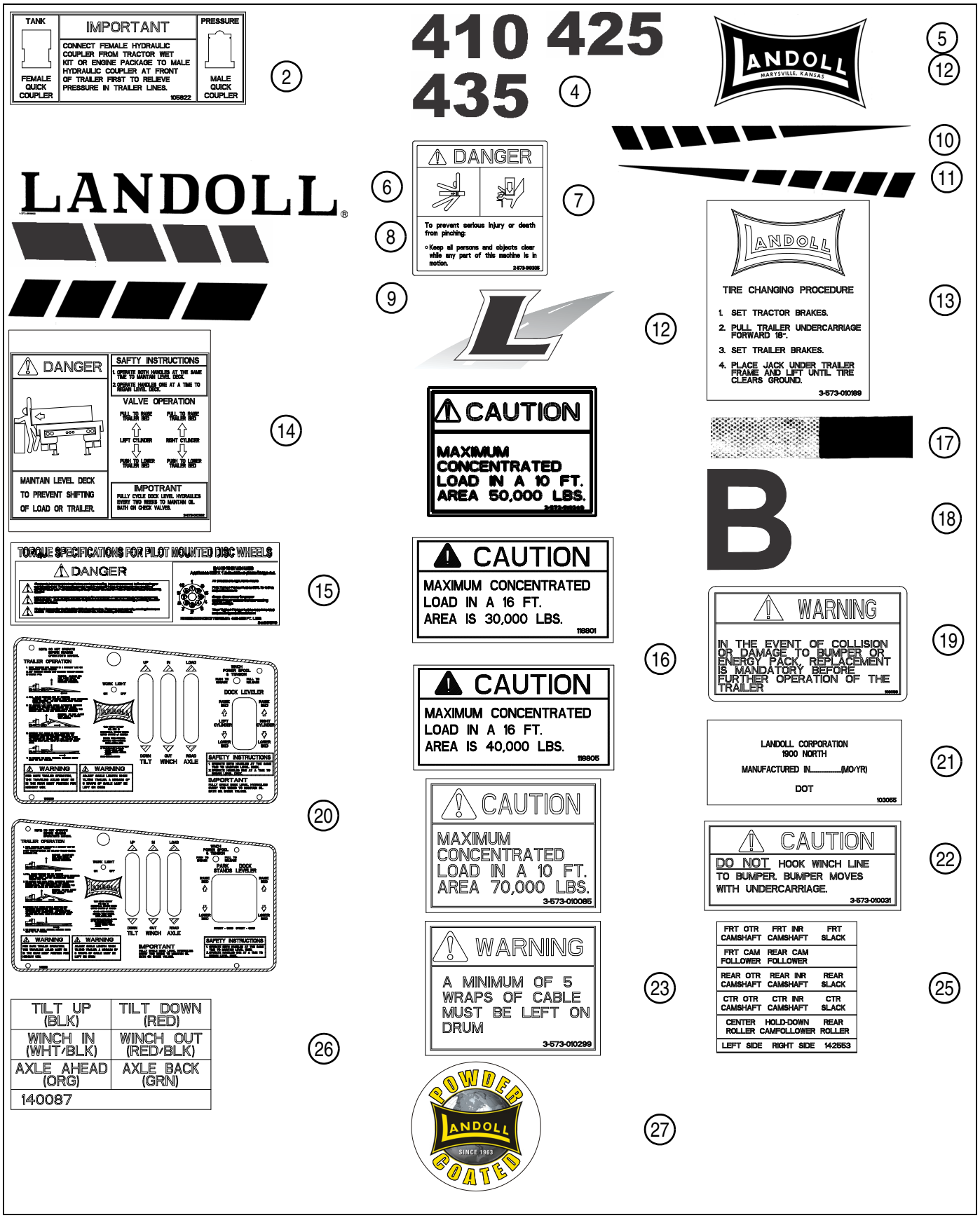


Figure 2-69: Decals

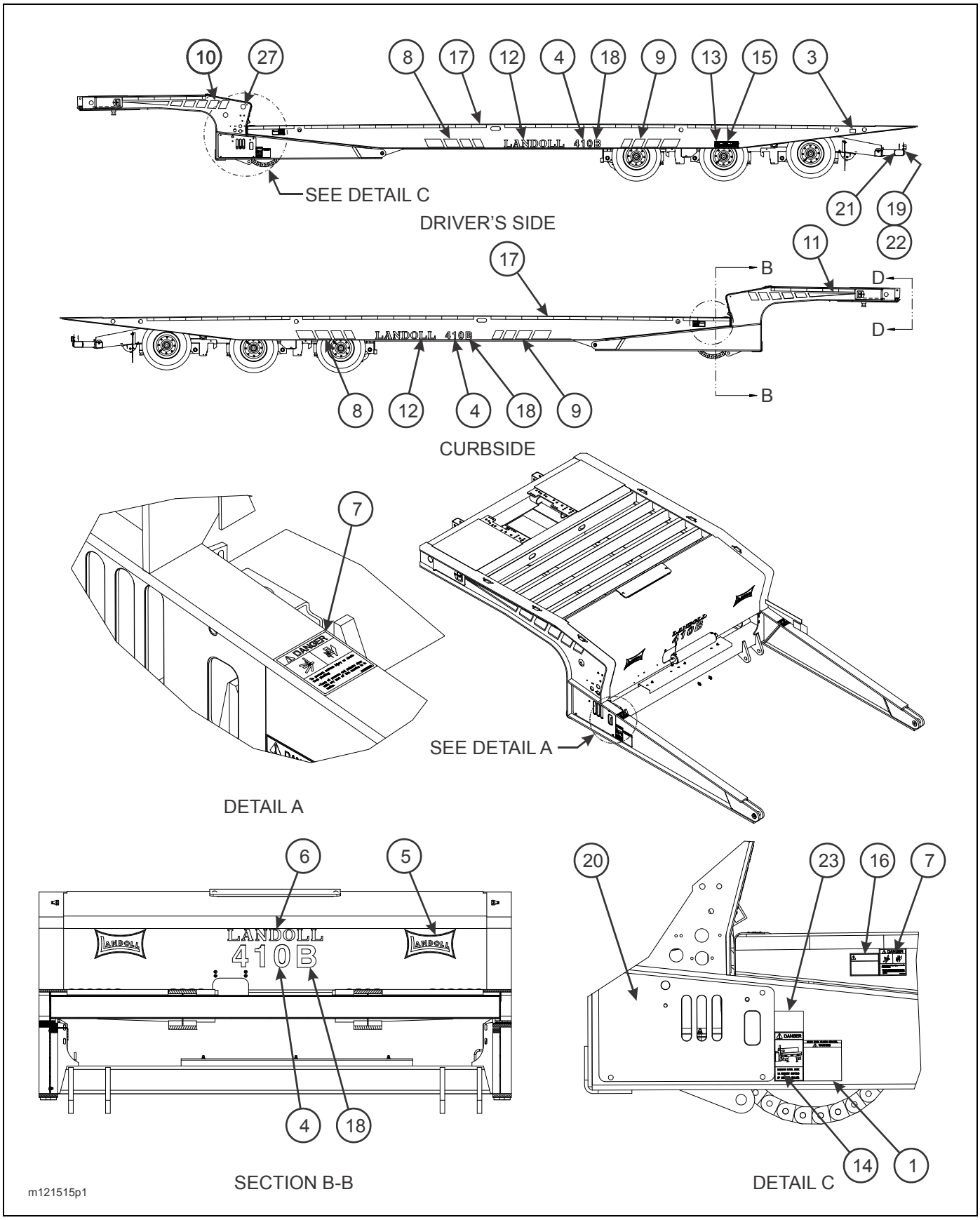


Figure 2-70: Decal Installation (1 of 2)

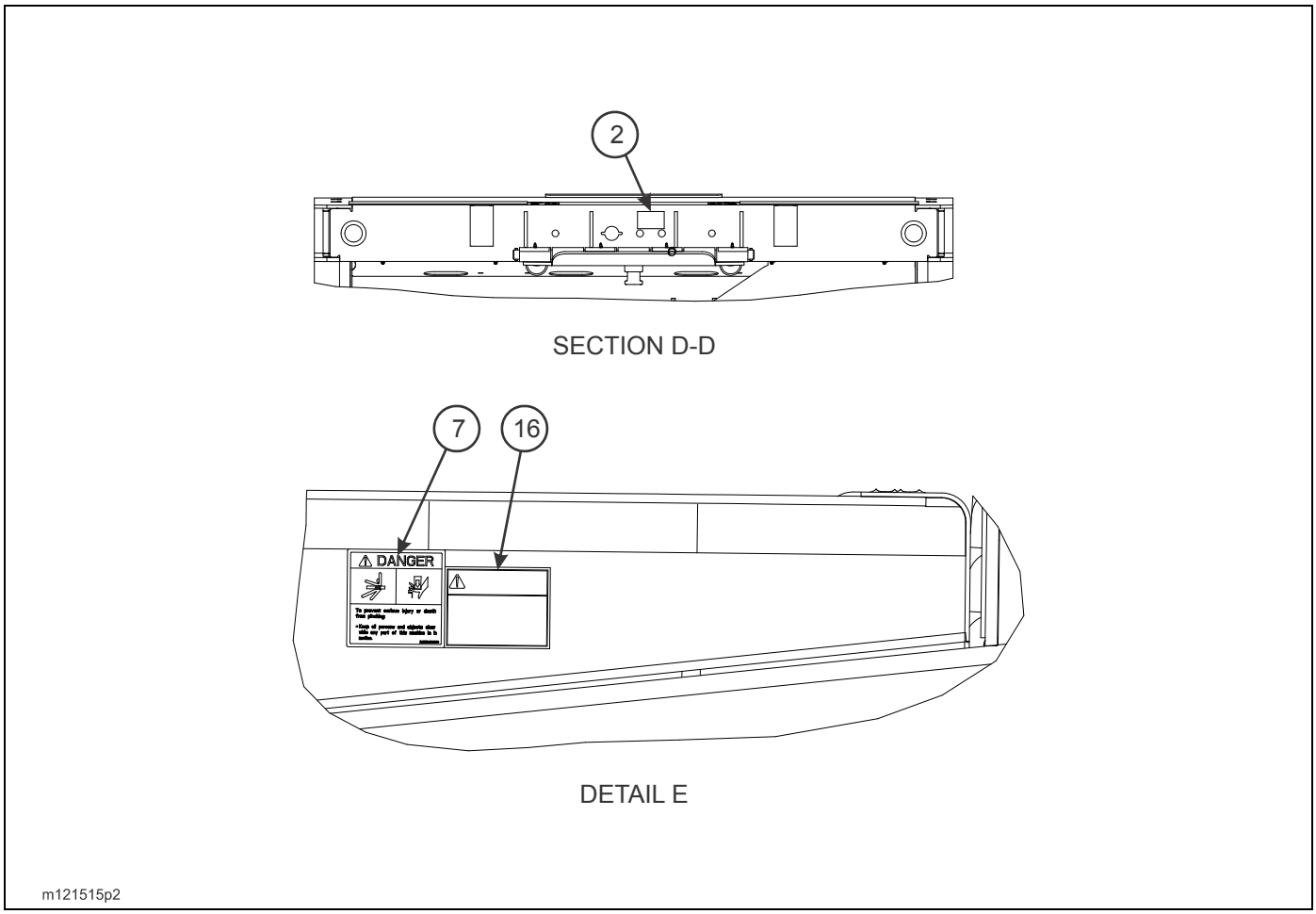


Figure 2-71: Decal Installation (2 of 2)

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	121515	DECAL INSTALLATION 410	REF
	135006	DECAL INSTALLATION 425	REF
	134162	DECAL INSTALLATION 435	REF
1	100600	DECAL, WARNING BRADEN WINCH	
2	105822	DECAL, HYD COUPLER	REF
3	101855	DECAL, ABS	1
4	116850	DECAL 410 WHITE DC 5”	3
	118804	DECAL 410 BLACK DC 5”	3
	118800	DECAL 425 BLACK DC 5”	3
	118803	DECAL 425 WHITE DC 5”	3
	127192	DECAL 435 BLACK DC 5”	3
	127191	DECAL 435 WHITE DC 5”	3
5	1-573-010476	DECAL, BOW-TIE BLACK	2
	1-573-010480	DECAL, BOW-TIE WHITE	2
6	1-573-010477	DECAL, LANDOLL BLACK (425/435 MODELS)	1
	1-573-010481	DECAL, LANDOLL WHITE (425/435 MODELS)	1
7	2-573-010335	DECAL, DANGER PINCH	4
8	3-573-010040	DECAL FRONT STRIPE (LEFT BLACK)	2
	3-573-010042	DECAL FRONT STRIPE (LEFT WHITE)	2

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
9	3-573-010041	DECAL FRONT STRIPE (RIGHT BLACK)	2
	3-573-010043	DECAL FRONT STRIPE (RIGHT WHITE)	2
10	3-573-010044	DECAL TAPERED STRIPE (LEFT BLACK)	1
	3-573-010046	DECAL TAPERED STRIPE (LEFT WHITE)	1
11	3-573-010045	DECAL TAPERED STRIPE (RIGHT BLACK)	1
	3-573-010047	DECAL TAPERED STRIPE (RIGHT WHITE)	1
12	3-573-010048	DECAL LANDOLL BLACK	*3,2
	3-573-010049	DECAL LANDOLL WHITE	*3,2
13	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1
14	3-573-010202	PLACARD, DANGER! DOCK LEVELER OPERATION	REF
15	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
16	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	2
	118801	DECAL, CAUTION 30K/16FT CONC. LOAD	2
	118805	DECAL, CAUTION 40K/16FT CONC. LOAD	2
	3-573-010085	DECAL, CAUTION CONC. LOAD 70000 LBS.	2
17	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	AR
18	114570	DECAL, B 5" (WHITE)	3
	114571	DECAL, B 5" (BLACK)	3
19	103056	DECAL, ENERGY BUMPER WARNING	1
20	139520	PLACARD, CONTROLS	1
	141626	PLACARD, CONTROLS	1
21	103055	DECAL, ENERGY CERTIFICATION	1
22	3-573-010031	DECAL, BUMPER	1
23	3-573-010299	DECAL, WARNING WINCH CABLE	1
24	143128	DECAL, 6 FUNCTION WINCH/TILT/AXLE (SEE PAGE 2-33)	1
25	142553	DECAL, GREASE TRAILER (425/435)	1
26	140087	DECAL, 400 REMOTE	1
27	139559	DECAL, POWDER COATED	1

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

* FIRST QUANTITY USED ON 410 MODELS; SECOND QUANTITY USED ON 425 & 435 MODELS W/ ITEM 6

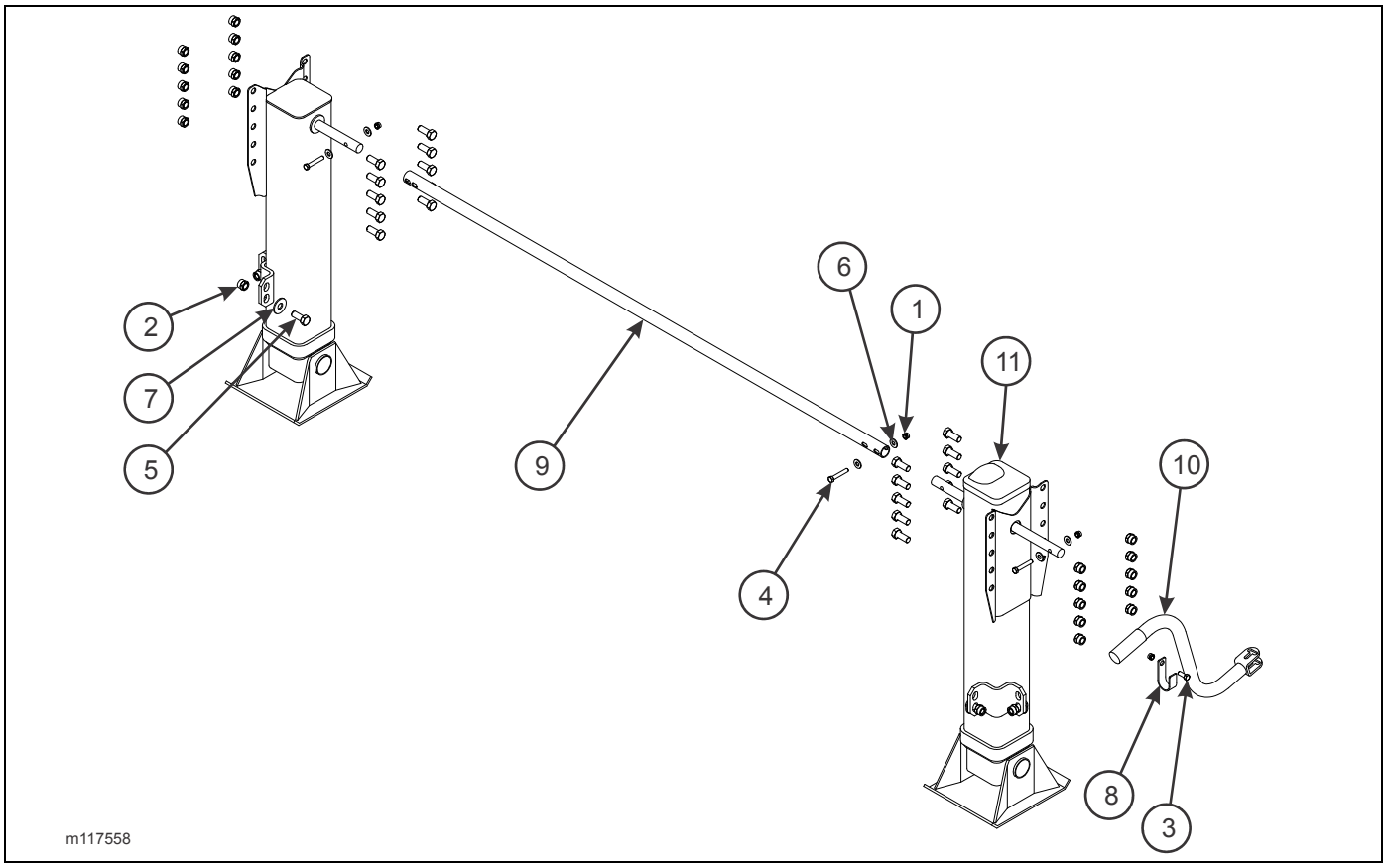


Figure 2-72: Landing Gear Installation

LANDING GEAR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	117558	LANDING GEAR INSTALLATION	
	133799	LANDING GEAR INSTALLATION	
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
3	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
4	1-654-010051-10	SCREW, HEX HEAD CAP 3/8-16 X 2-1/4 GR5	3
5	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	24
6	1-861-010032-11	WASHER, FLAT 3/8W	6
7	1-861-010032-19	WASHER, FLAT 5/8W	4
8	117559	CLIP, LANDING GEAR HANDLE	1
9	117561	CROSS-SHAFT LANDING GEAR (117558)	1
	133798	CROSS SHAFT LANDING GEAR (133799)	1
10	119949	HANDLE, CRANK 2 SPEED LANDING GEAR	1
11	139256	LANDING GEAR WLDMT 2 SPEED (SEE PAGE 2-138)	1

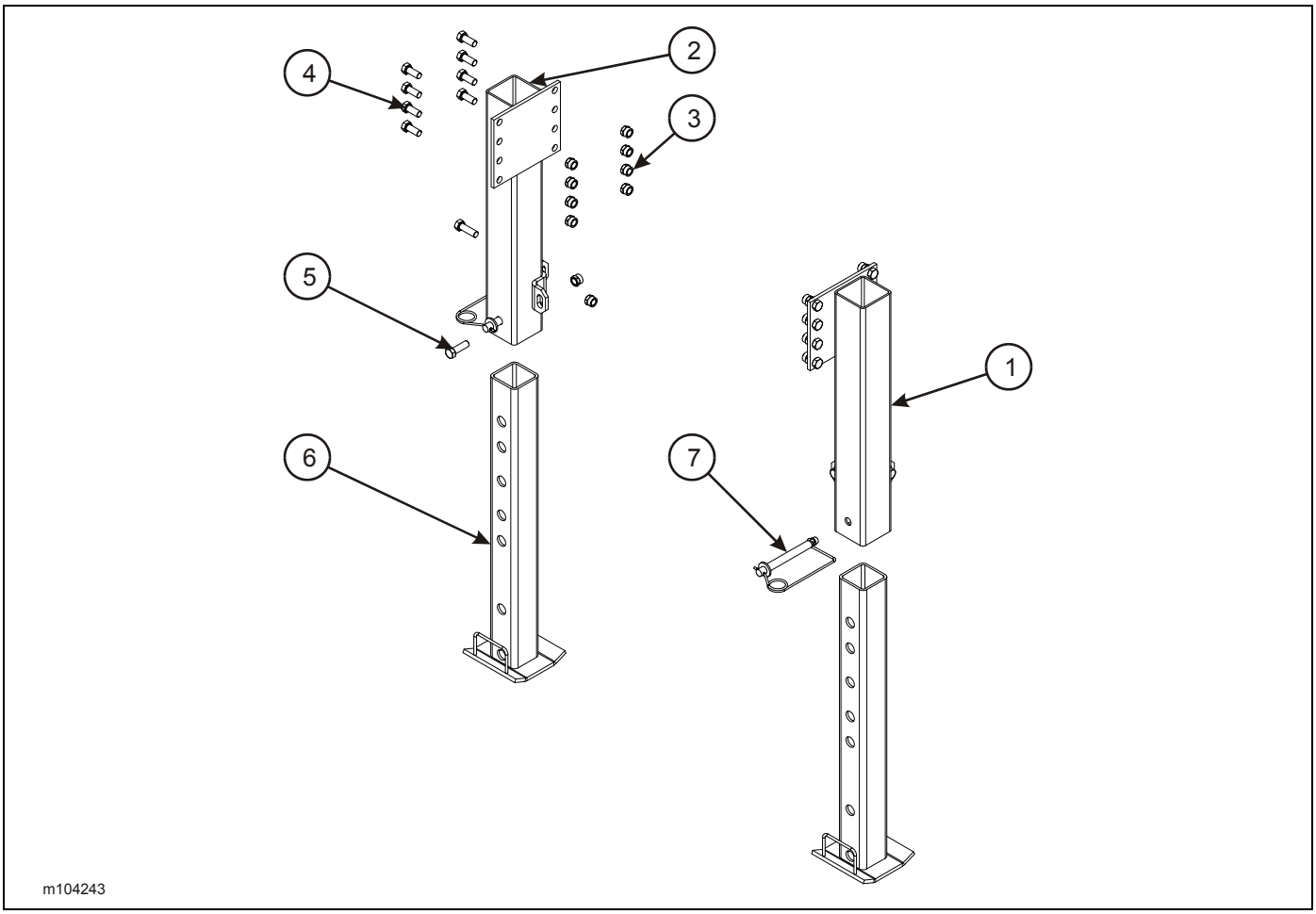


Figure 2-73: Landing Gear Installation

LANDING GEAR INSTALLATION BOLT - ON

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INST., BOLT-ON (ITEMS 1-7)	
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 5/8-11 X 1-1/2 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

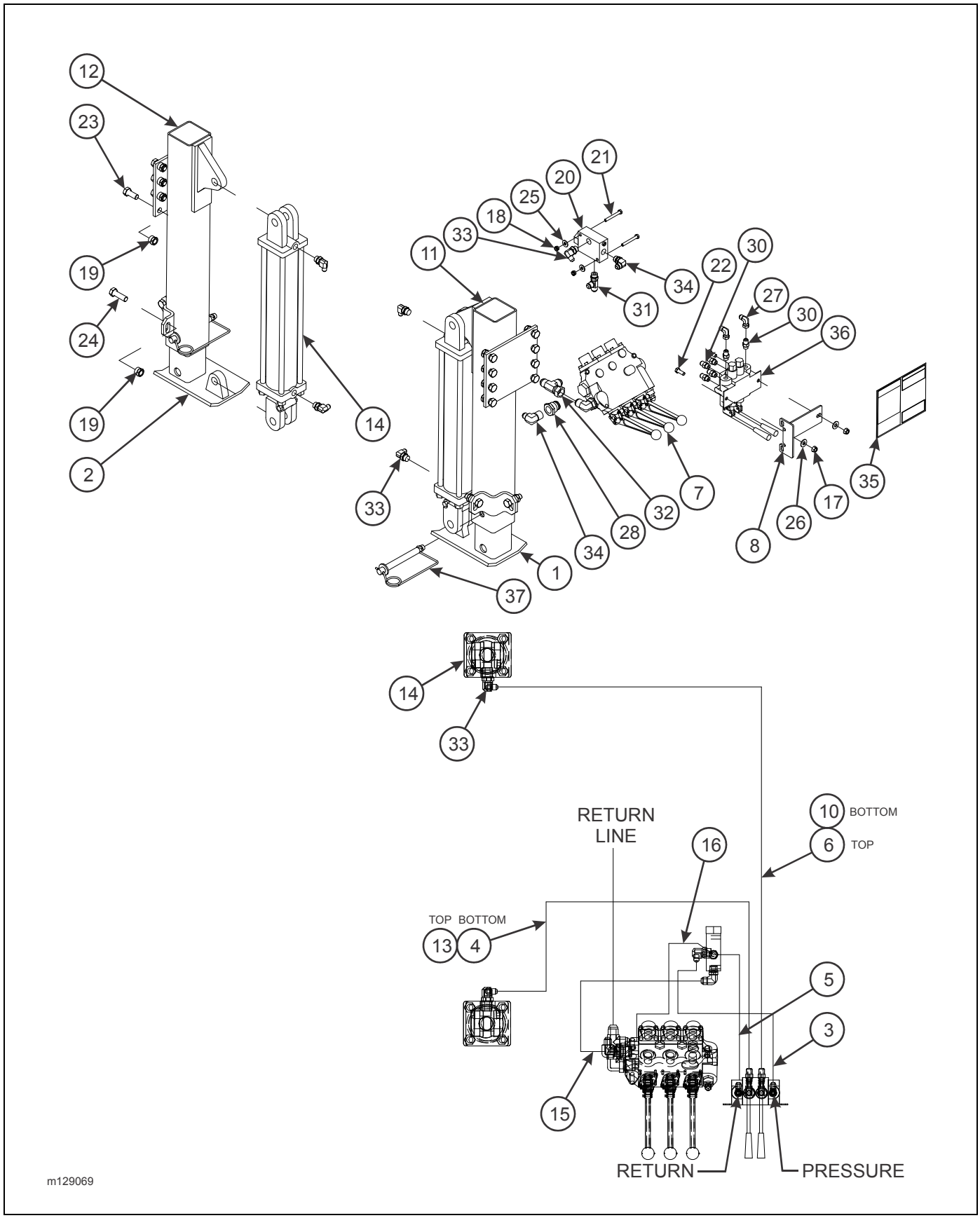
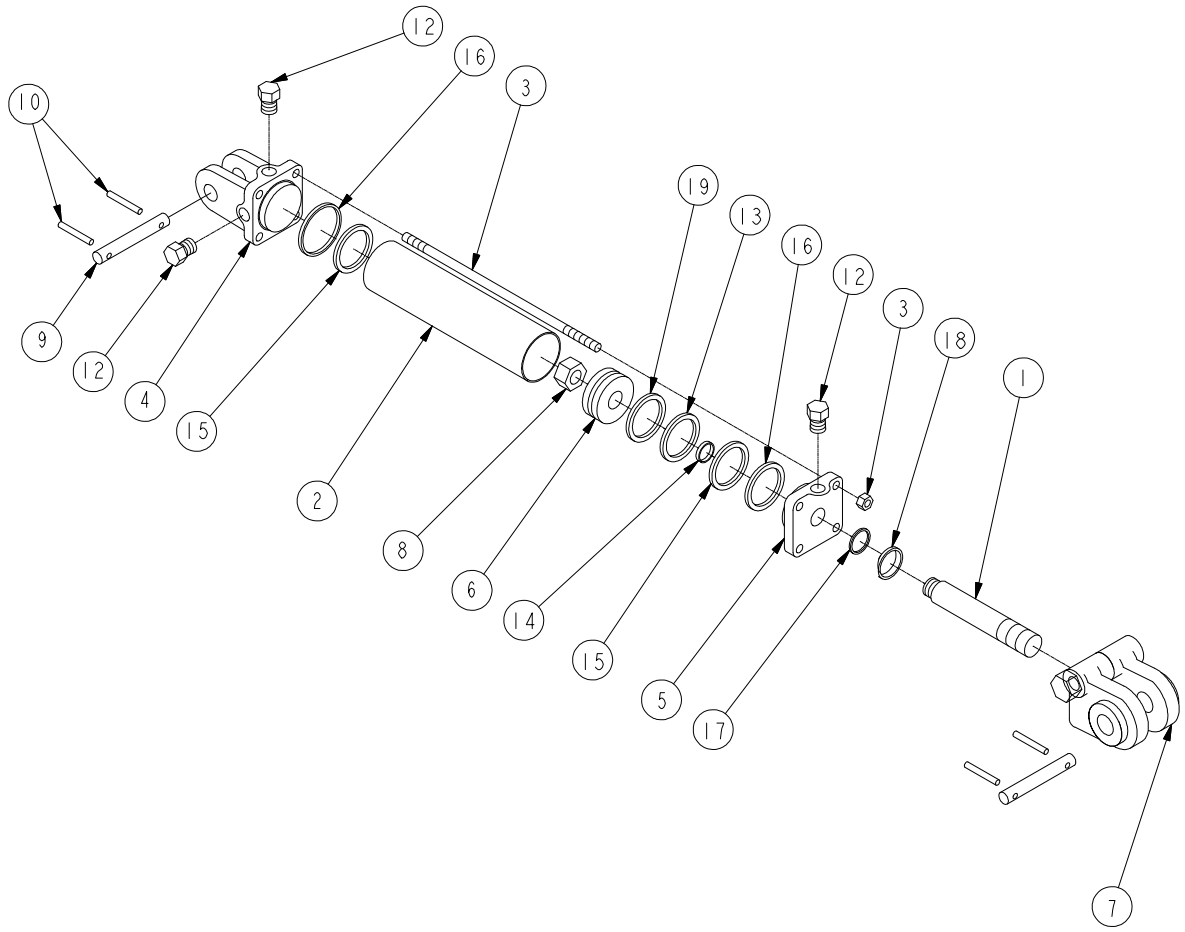


Figure 2-74: Hydraulic Park Stand Installation

HYDRAULIC PARK STAND INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	129069	PARK STAND INSTALLATION, HYDRAULIC	
1	104241	PARK STAND WELDMENT, HYD LH LEG	1
2	104242	PARK STAND WELDMENT, HYD RH LEG	1
3	111302	HOSE ASSEMBLY 3/8 X 24	1
4	135189	HOSE ASSEMBLY 3/8 X 84	1
5	116429	HOSE ASSEMBLY 3/8 X 25	1
6	116488	HOSE ASSEMBLY 3/8 X 136	1
7	-----	VALVE, 3 STACK MOTOR SOL	REF
8	121124	BRACKET, VALVE DOCK LEVEL CONTROL	1
9	-----	FRAME ASSEMBLY (NOT SHOWN)	REF
10	123490	HOSE ASSEMBLY, 3/8 X 113 (129069)	1
11	129084	PARK STAND WELDMENT, HYD LH	1
12	129085	PARK STAND WELDMENT, HYD RH	1
13	129088	HOSE ASSEMBLY 3/8 X 60	1
14	1-242-010180-2	CYLINDER, HYD 3-1/2 X 20 3000 PSI (SEE PAGE 2-136)	2
15	1-397-010302018	HOSE ASSEMBLY, 1/2 X 18	1
16	1-397-010306028	HOSE ASSEMBLY, 1/2 X 28	1
17	1-510-010001	NUT, FLANGE LOCK 3/8-16	2
18	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
19	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
20	1-626-010002-06	REGULATOR, FLOW 1/2-6 GPM	1
21	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2
22	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
23	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5	16
24	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	44
25	1-861-010032-09	WASHER, FLAT 5/16W	2
26	1-861-010032-11	WASHER, FLAT 3/8W	2
27	102-0031	ADAPTER, 90	2
28	138179	POWER BEYOND REMOTE	1
30	202702-6-6S	ADAPTER, STRAIGHT	6
31	203005-8-8S	ADAPTER, TEE	1
32	203102-12-12S	ADAPTER, TEE	1
33	2062-8-6S	ELBOW, 90	5
34	2062-8-8S	ADAPTER, 90	2
35	3-573-010202	DECAL, DANGER/ OPERATION, DOCK LEVEL (SEE PAGE 2-130)	1
36	3-846-010056	VALVE, DOUBLE SPOOL STACK PARALLEL	1
37	346SL	LOCK, HITCH PIN	2



1mb242-010180

Figure 2-75: Hydraulic Cylinder 3-1/2 x 20

HYDRAULIC CYLINDER 3-1/2 X 20

ITEM	PART NO.	DESCRIPTION	QTY.
	1-242-010180-2	CYLINDER 3-1/2" X 20" (PRINCE SAE 33520)	
1	010700437	PISTON ROD	1
2	-----	TUBE	1
3	-----	TIEROD ASSEMBLY	4
4	-----	BUTT	1
5	111870	GLAND ASSEMBLY	1
6	-----	PORT PLUG	1
7	-----	PISTON	1
8	-----	CLEVIS ASSEMBLY	1
9	-----	LOCKNUT	1
10	-----	CLEVIS PIN	2
11	-----	CLEVIS PIN RETAINER	4
12	*	CROWN SEAL	1
13	*	O-RING	1
14	*	O-RING	2
15	*	BU-WASHER	2
16	*	U-CUP	1
17	*	WIPER	1
	1-242-010178-2	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS) (ITEMS 13 - 18)	1

*PARTS AVAILABLE IN PACKING KIT ONLY.

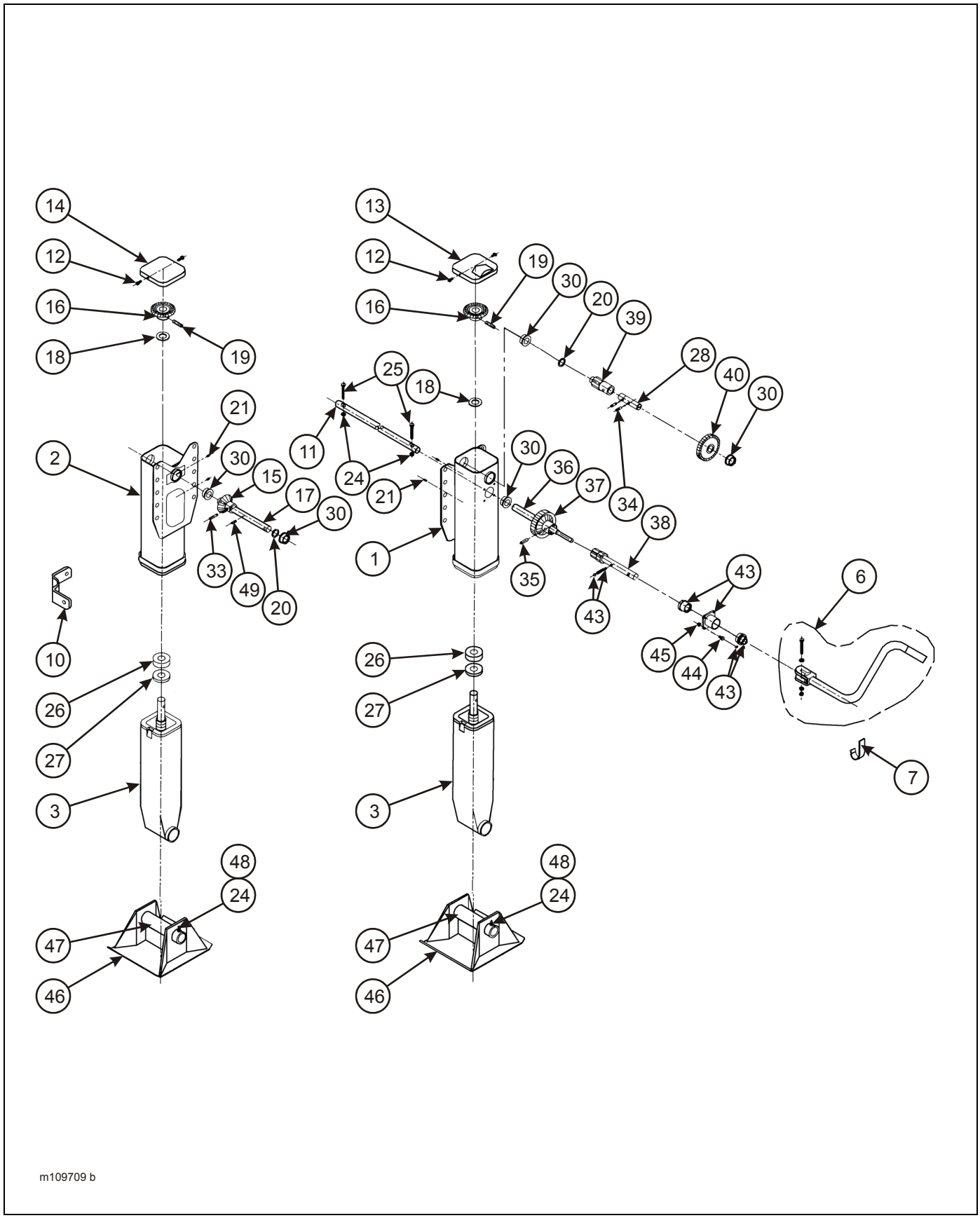


Figure 2-76: Crank Landing Gear

CRANK LANDING GEAR

ITEM	PART NO.	REFERENCE 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	B10261	CRANK HANGER	1
10	109712	C10108	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	163502	B10229S	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	114983	B10036	SHOE AXLE	2
48	-----	A10037.3	HEX HEAD BOLT	2
49	-----	A10054.6	ROLL PIN - 1/4 X 1-1/4	1
50	137974	A401LT19	RH LANDING LEG ASSEMBLY	1

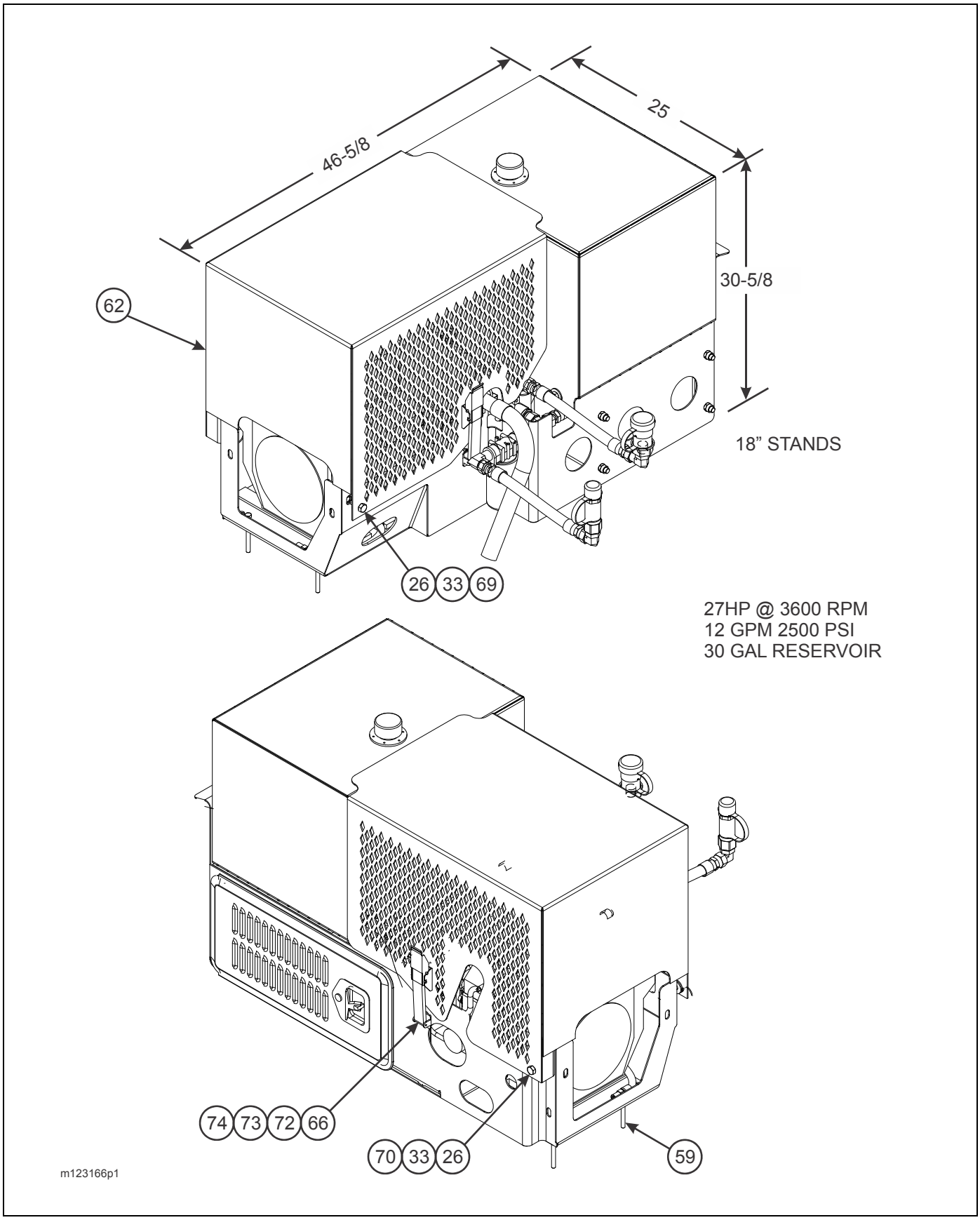


Figure 2-77: Upper Deck Engine Installation (1 of 4)

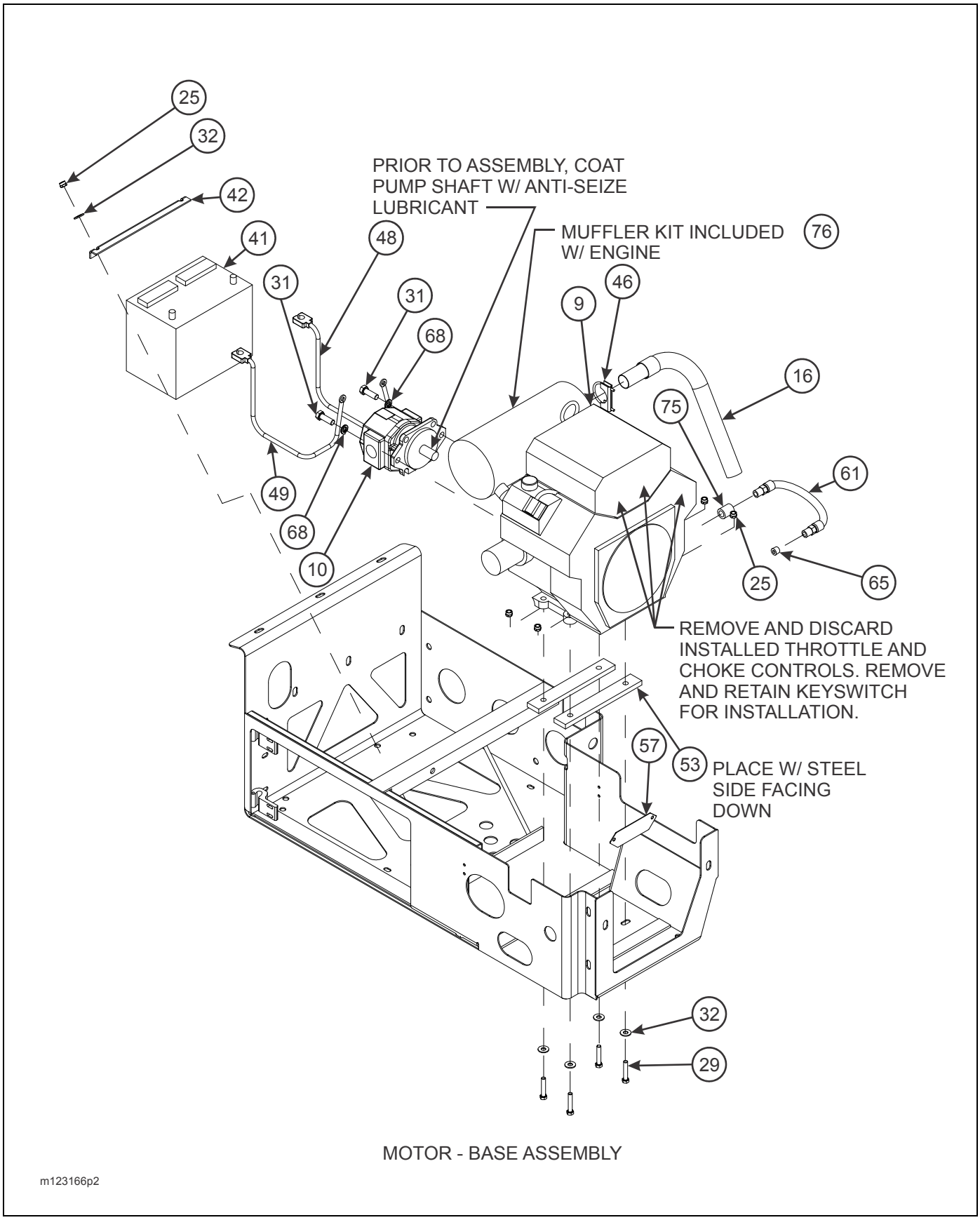


Figure 2-78: Upper Deck Engine Installation (2 of 4)

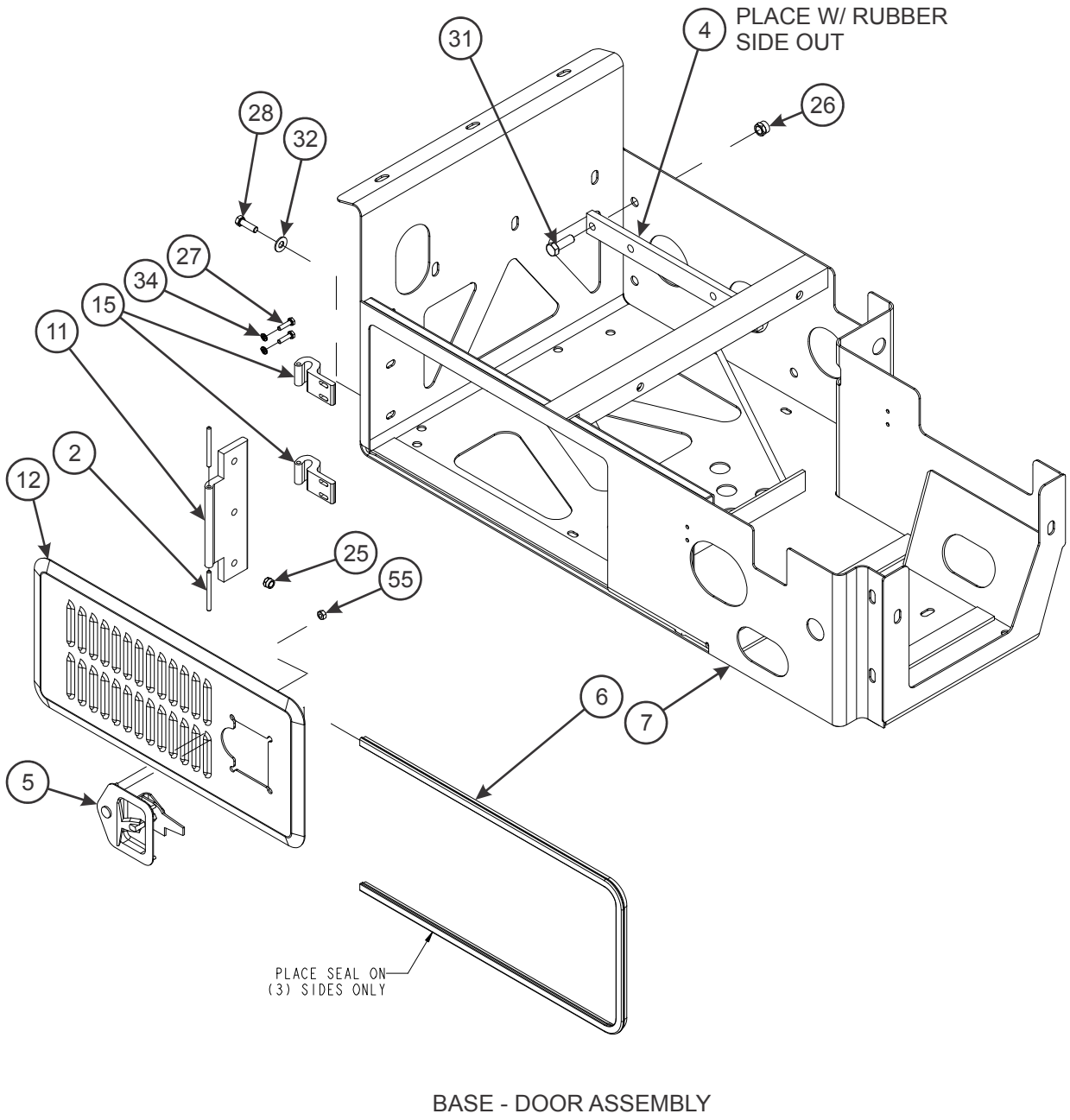


Figure 2-79: Upper Deck Engine Installation (3 of 4)

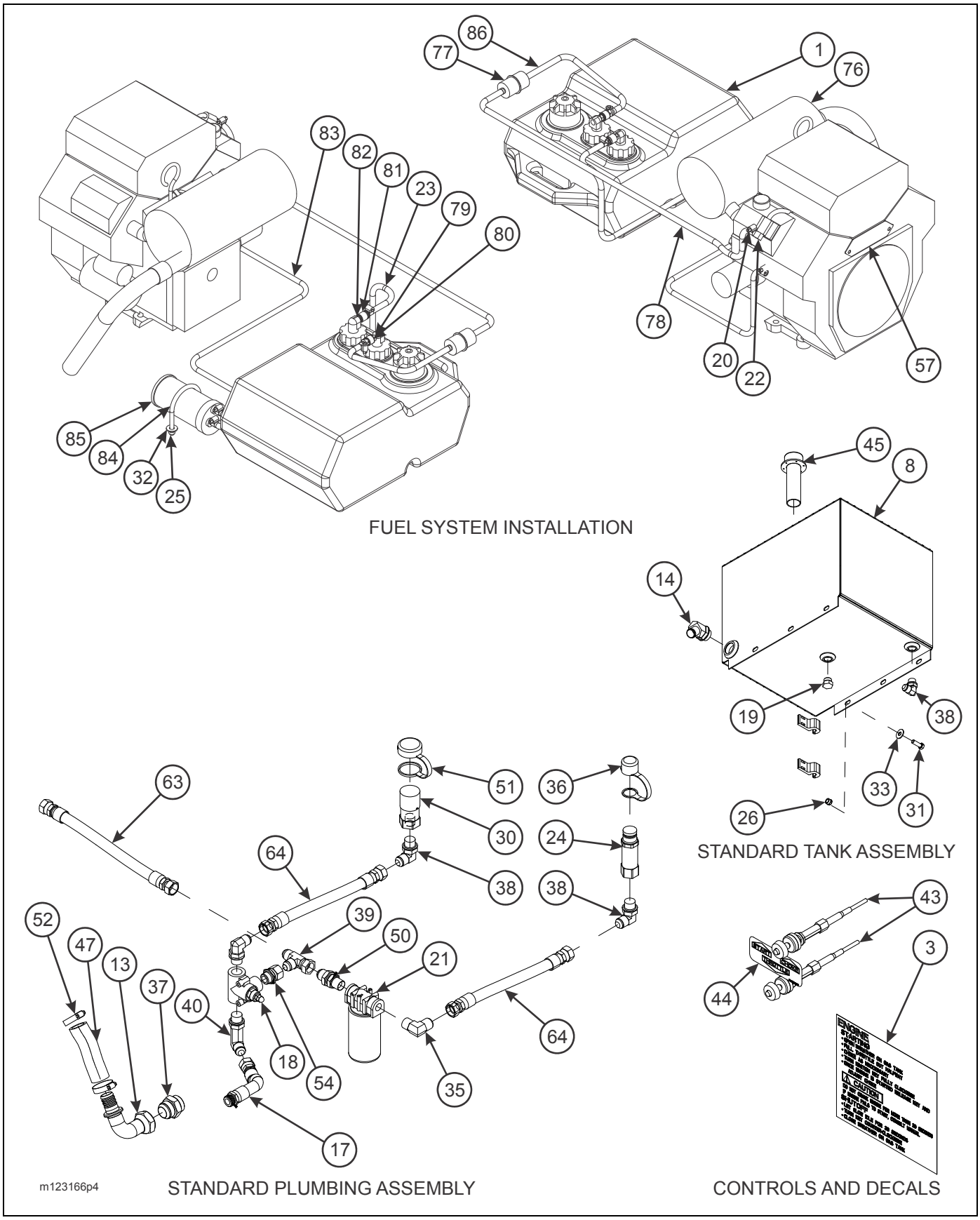


Figure 2-80: Upper Deck Engine Installation (4 of 4)

27 HP GAS ENGINE PACKAGE, UPPER DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	27HP GAS ENGINE PACKAGE	
1	169531	TANK, FUEL PLASTIC 6 GAL LOW PERM	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENGINE PACKAGE INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WELDMENT, ENGINE PACKAGE 25 HP	1
8	129264	HYDRAULIC TANK WELDMENT	1
9	127813	ENGINE, KOHLER 27 HP PUMP MOUNT	1
	3-765-010050	KOHLER IGNITION SWITCH	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, HYDRAULIC PRESSURE RELIEF	1
19	900598-12S	PLUG, O-RING	1
20	105-0105	CLAMP, HOSE	6
21	1-295-010001	RETURN LINE FILTER	1
	1-295-010002	FILTER ELEMENT	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	5
24	105479	COUPLER FLAT FACE MALE NOSE	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	15
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
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	6
30	105480	COUPLER, FLAT FACE FEMALE BODY	1
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
32	1-861-010032-11	WASHER, FLAT 3/8W	19
33	1-861-010032-15	WASHER, FLAT 1/2W	13
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2024-12-12S	ELBOW, 90	1
36	105481	COUPLER, DUST CAP MALE	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	4
39	203102-12-12S	ADAPTER, TEE	1
40	206209-12-12S	ADAPTER, 90	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	128774	CABLE, THROTTLE	2
44	3-573-010506	DECAL, ENGINE CONTROL	1
45	3-162-010001	FILLER-BREATHER-STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1

27 HP GAS ENGINE PACKAGE, UPPER DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
47	3-399-010001006	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	105482	COUPLER, DUST FEMALE	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	123014	PLATE, MOTOR FRONT 25 HP	1
58	113544	HARNESS, ENGINE PACKAGE IGNITION (NOT SHOWN)	2
59	108295	SCREW, HEX HEAD CAP 3/8-16 X 4 GR5	2
61	1-397-010312032	HOSE ASSEMBLY 3/8 X 32	1
62	129287	COVER WELDMENT	1
63	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
64	1-397-010304060	HOSE ASSEMBLY 3/8 X 60	2
65	1-560-010002-03	PLUG, PIPE 3/8	1
66	1-512-010004-03	NUT, HEX LOCK 10-24 GRA	8
68	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
69	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
70	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	1
72	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
73	110-0253	WASHER, FLAT 3/16	8
74	3-443-010018	LATCH, FLEXIBLE DRAW, LEVER ASSIST	2
75	3/8P COUPL	PIPE COUPLING 3/8 BLACK	1
76	128501	REPLACEMENT MUFFLER KIT	1
77	142270	FUEL FILTER	1
78	169532	HOSE, FUEL 1/4 LOW PERM CARB	5
79	170109	FITTING	1
80	170110	FITTING	1
81	170111	FITTING	1
82	170112	FITTING	1
83	3-316-010008	FUEL HOSE 3/16 ID	5
84	110578	U-BOLT, FENDER MOUNT	1
85	166766	CARBON CANISTER, FUEL TANK	1
86	139553	COUPLER, FUEL TANK	1

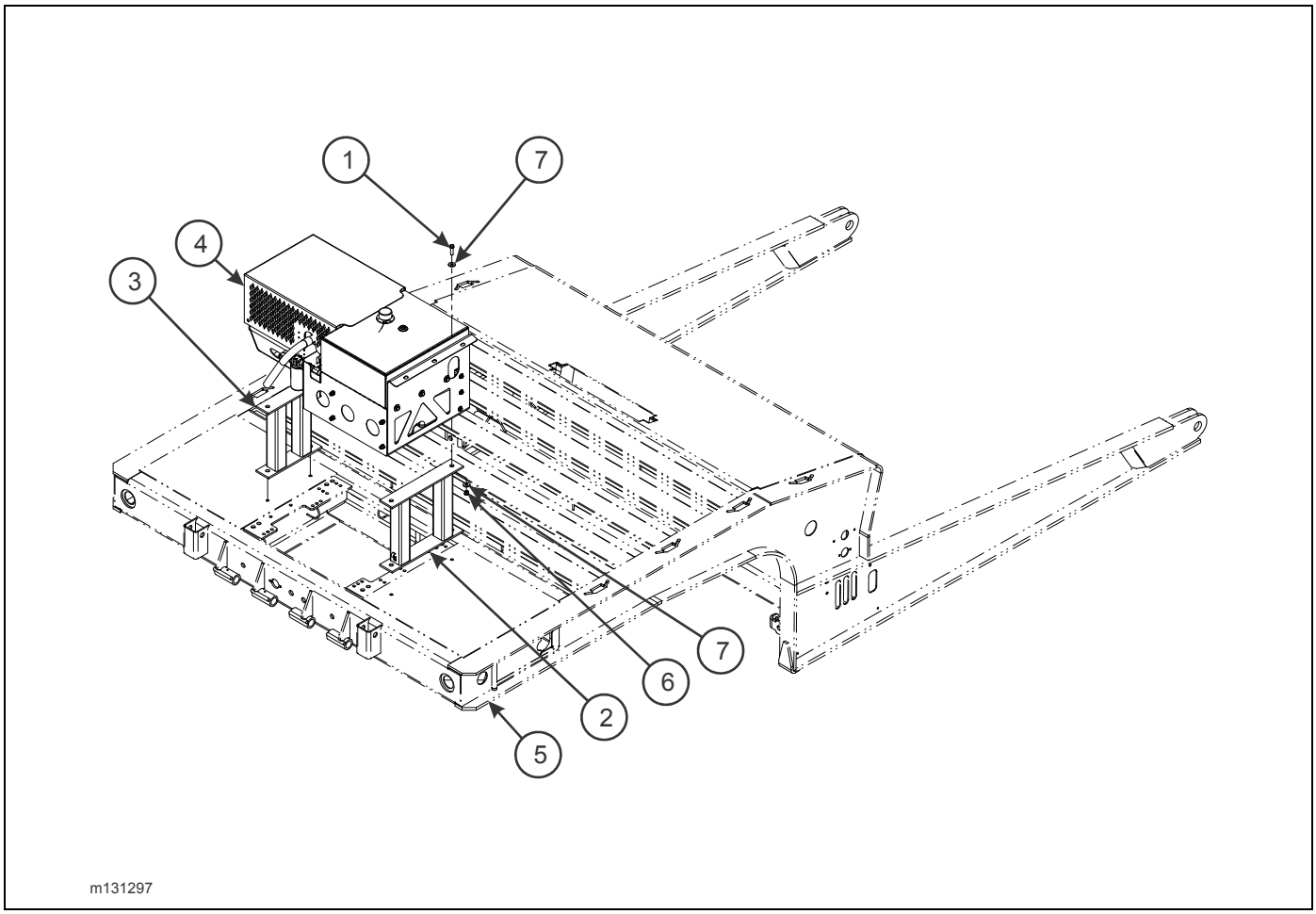


Figure 2-81: Upper Deck Engine Stand Installation

UPPER DECK ENGINE STAND INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	131297	UPPER DECK STAND INSTALLATION	
1	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	4
2	120479	MOUNT WELDMENT	1
3	124556	MOUNT WELDMENT, NARROW	1
4	123166	ENGINE PACKAGE 27 HP U/D (SEE PAGE 2-143)	REF
5	130662	GOOSENECK WELDMENT	REF
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2W	16

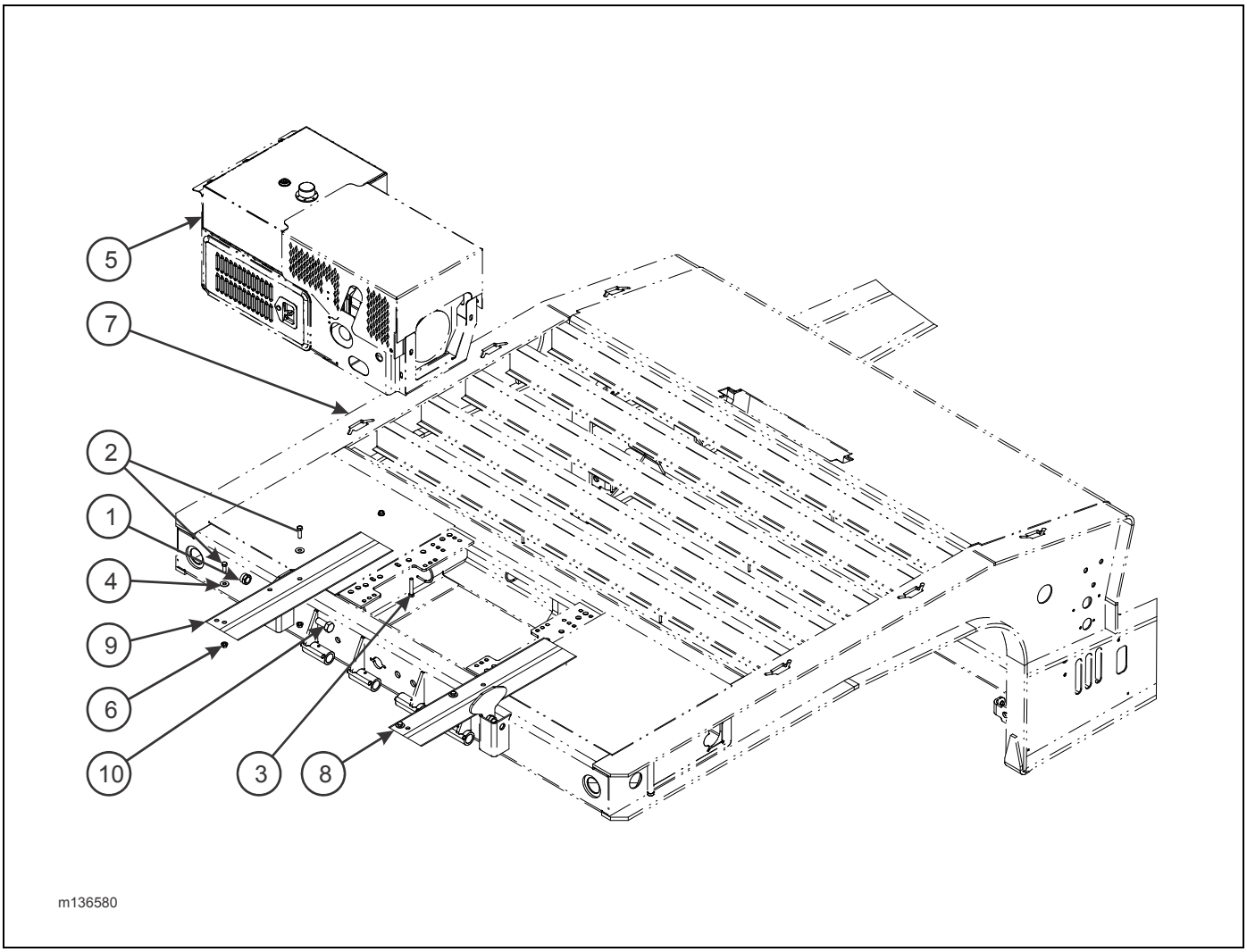


Figure 2-82: Upper Deck Engine Stand Installation

FRONT MOUNT ENGINE INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	136580	FRONT MOUNT ENGINE INSTALLATION	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	123166	ENGINE PACKAGE 27 HP U/D (SEE PAGE 2-143)	REF
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	130662	GOOSENECK WELDMENT	REF
8	136581	MOUNT WELDMENT LH FRONT ENG PKG	1
9	136582	MOUNT WELDMENT RH FRONT ENG PKG	1
10	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

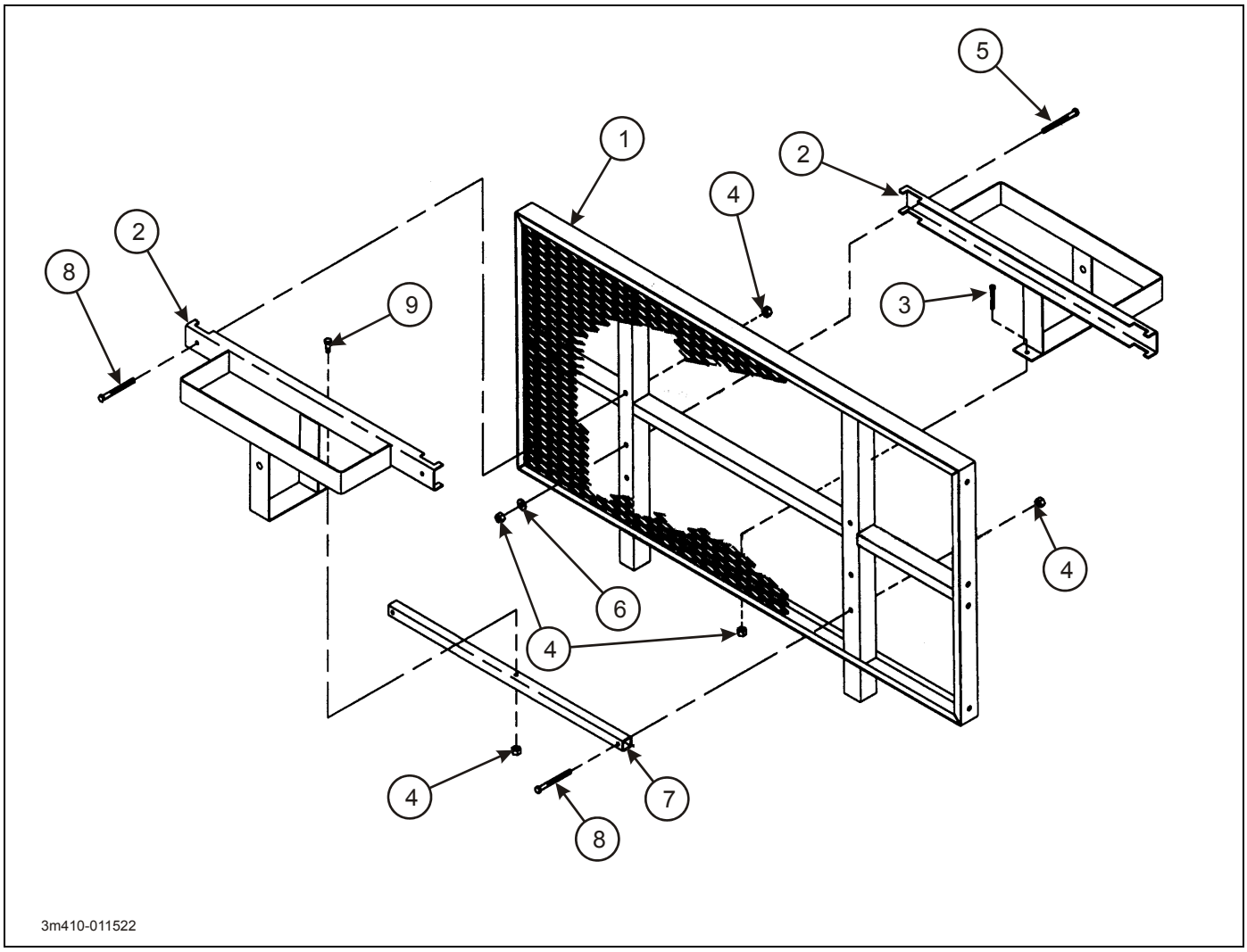


Figure 2-83: Spare Tire Carrier (Option)

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 1/2-13 X 1 GR5	1
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	3,5*
5	1-654-010055-15	SCREW, HEX HEAD CAP 1/2-13 X 5 GR5	2
6	1-861-010032-15	WASHER, FLAT 1/2W	2
7	3-829-010337	TUBE W/ TAB MOUNTED BULKHEAD SPARE RACK	1
8	1-654-010055-18	SCREW, HEX HEAD CAP 1/2-13 X 6-1/2 GR5	4
9	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	1

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

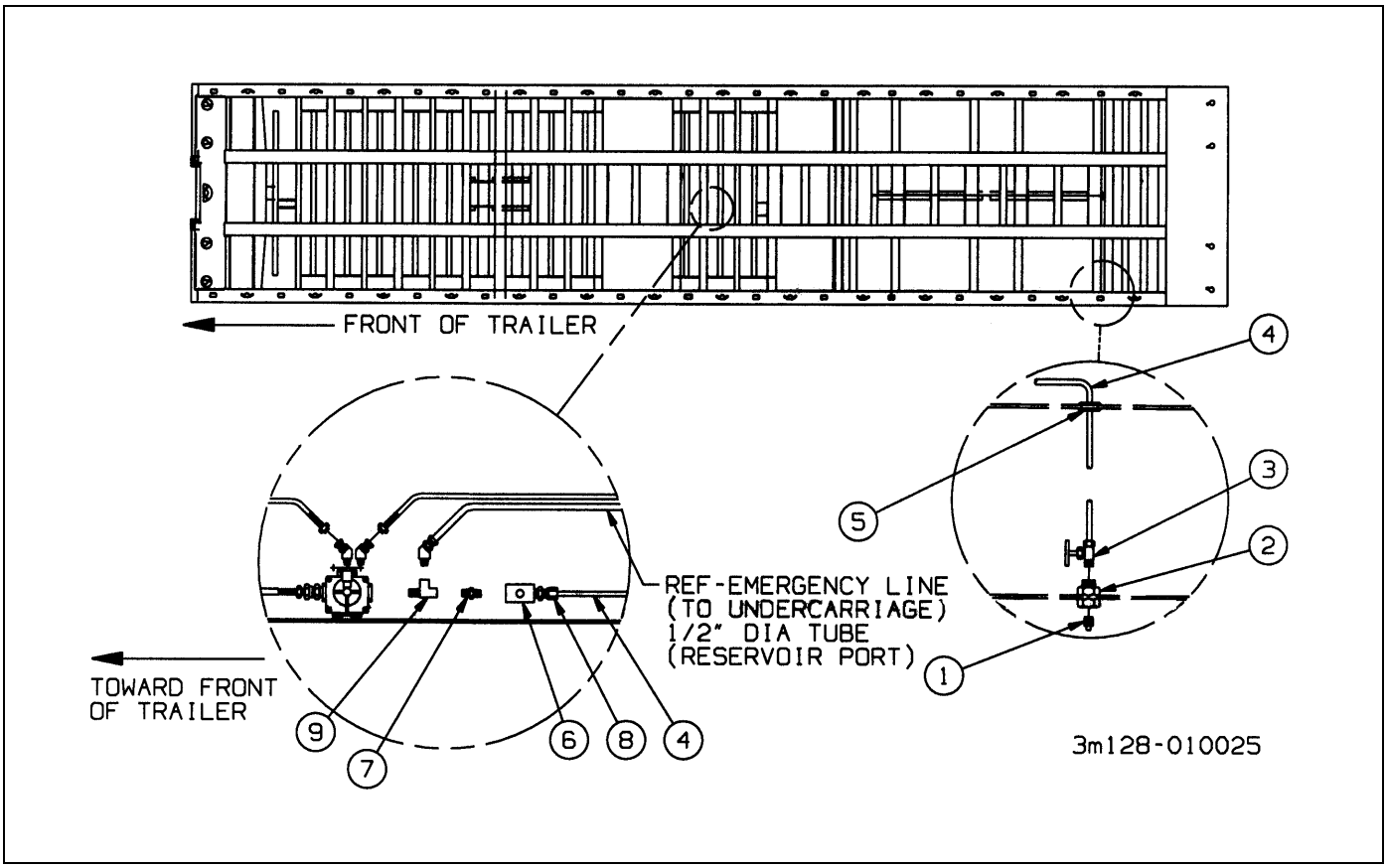


Figure 2-84: Air Outlet Accessory (Option)

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
	167692	FILTER	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

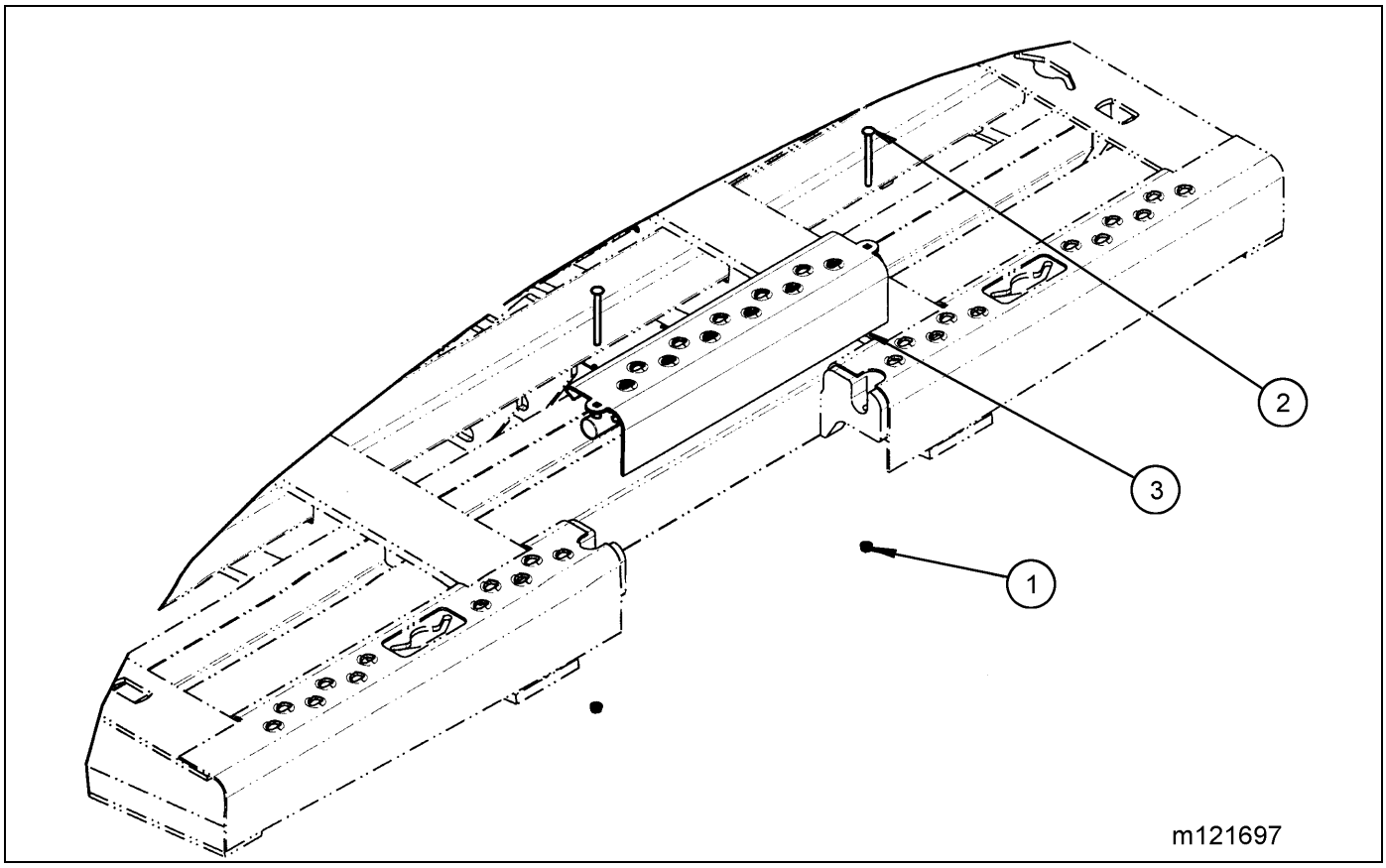


Figure 2-85: Center Rub Plate Cover Installation (Option)

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

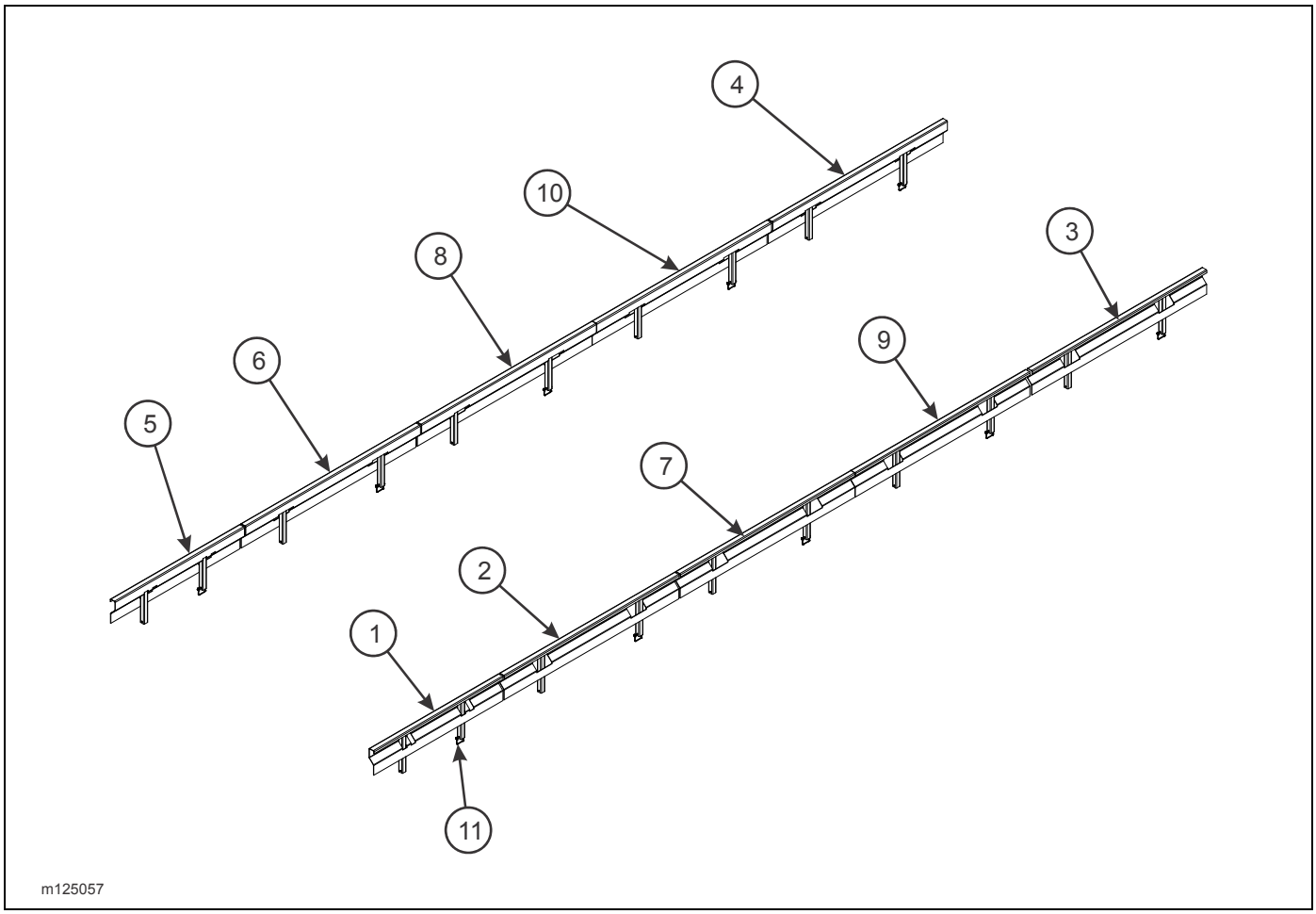


Figure 2-86: 8” Metal Sideboard Installation (Option) (425)

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

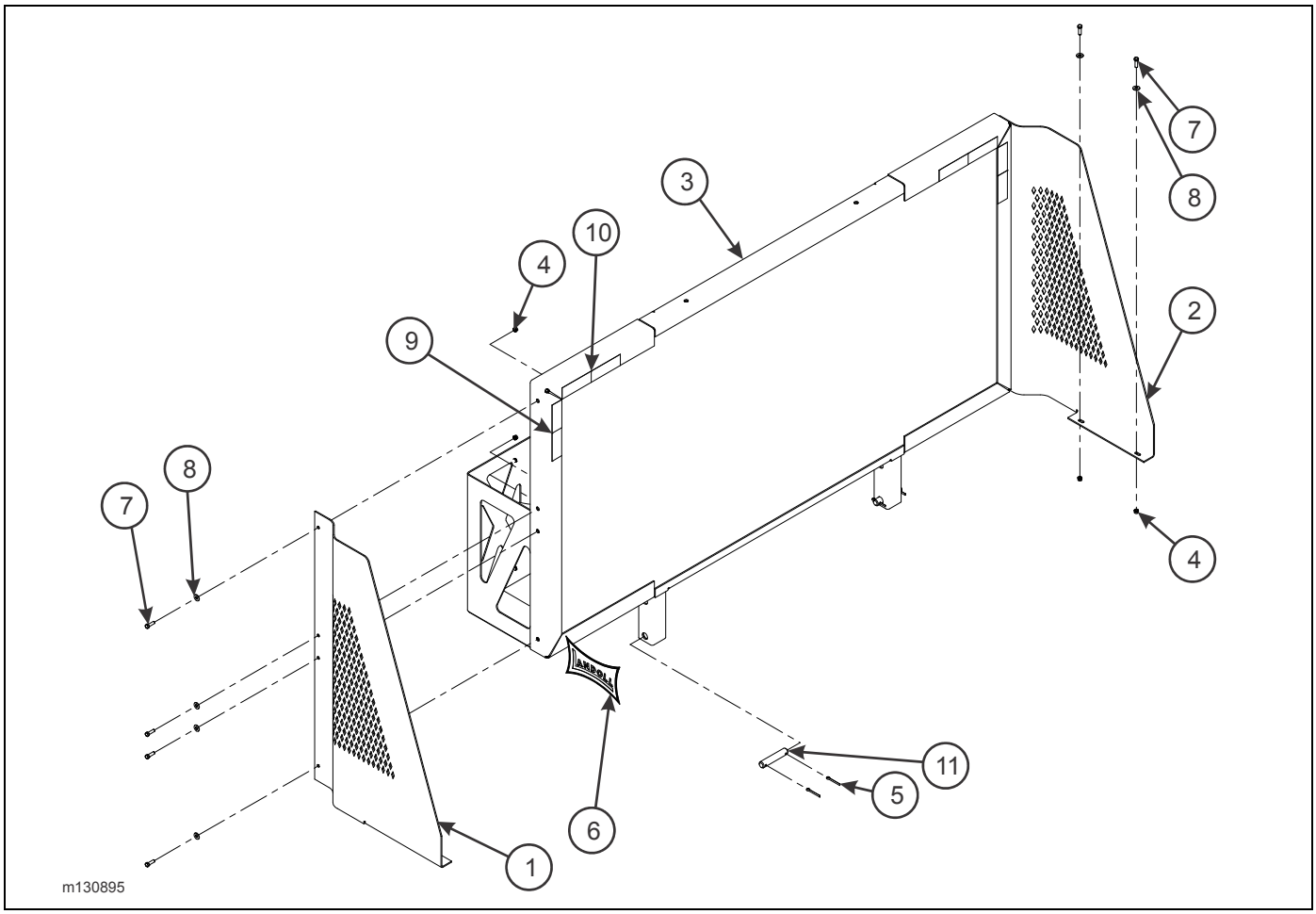


Figure 2-87: Special Bulkhead Installation (Option)

SPECIAL BULKHEAD INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	130895	SPECIAL BULKHEAD INSTALLATION (OPTION)	
1	128137	EXTENSION ALUMINUM LH BULKHEAD	1
2	128138	EXTENSION ALUMINUM RH BULKHEAD	1
3	130896	BULKHEAD WELDMENT	1
4	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	12
5	1-557-010362-63	PIN, COTTER 1/4 X 2	4
6	153755	DECAL, BOWTIE (BLACK/LT) REFLECTIVE	2
7	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
8	1-861-010032-11	WASHER, FLAT 3/8W	12
9	3-573-010378	DECAL, 2 X 10 REFLEXITE WHITE	AR
10	3-573-010378	DECAL, 2 X 12 REFLEXITE WHITE	AR
11	6-557-010163	PIN, HITCH LEVELING LINK	2

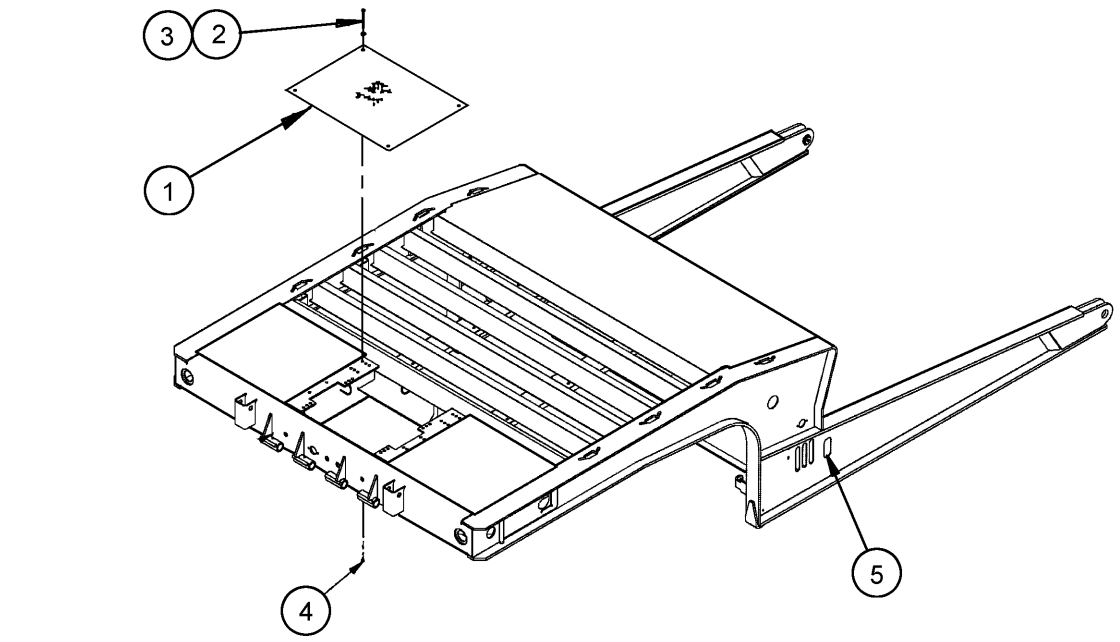


Figure 2-88: Upper Deck Cover Installation (Option)

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

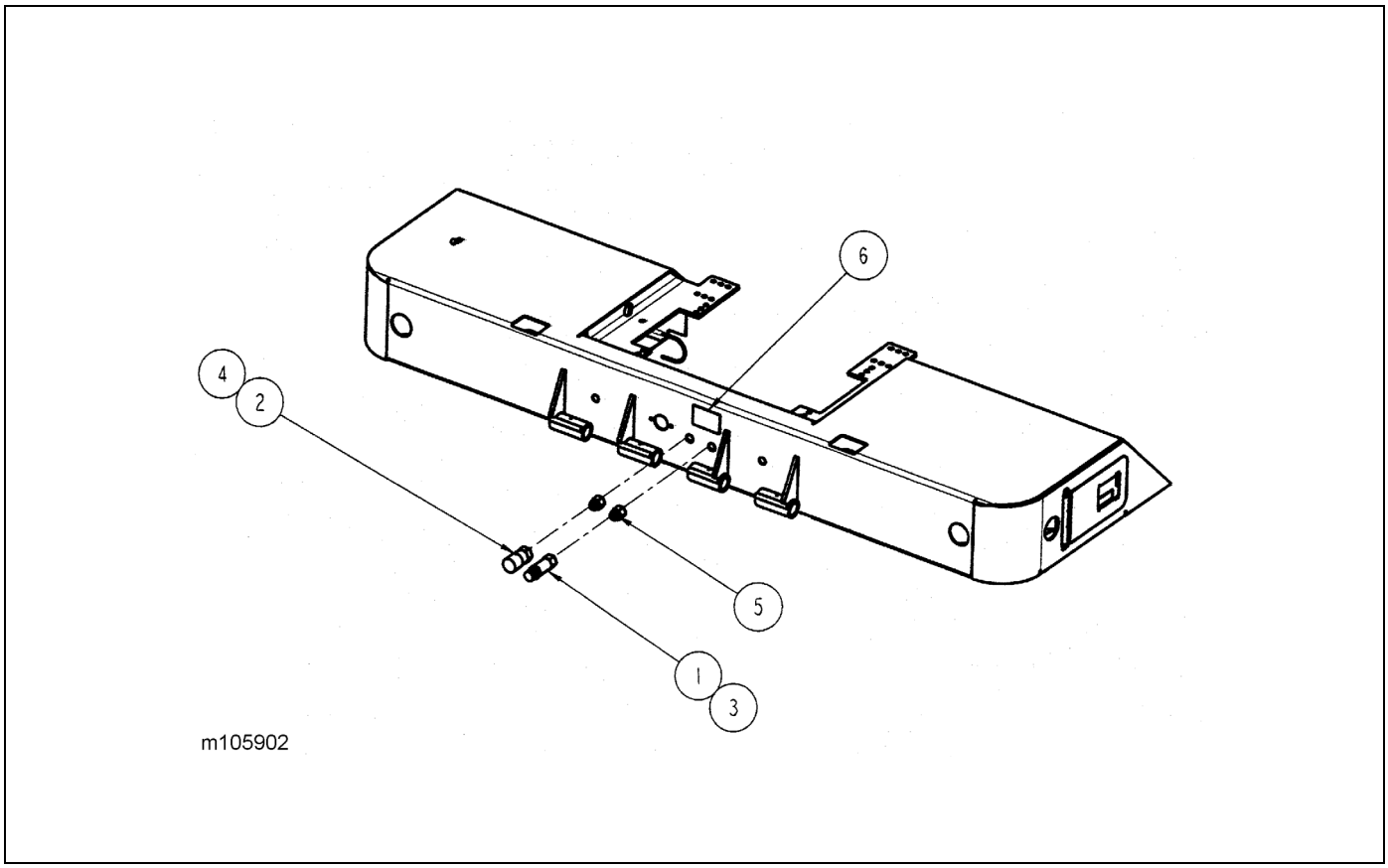


Figure 2-89: Hydraulic Conversion Kit, Ball to Flat (Option)

HYDRAULIC CONVERSION KIT, BALL TO FLAT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	105902	HYDRAULIC CONVERSION KIT, BALL TO FLAT (OPTION)	
1	105479	COUPLER, FLAT FACE MALE NOSE	1
2	105480	COUPLER, FLAT FACE FEMALE BODY	1
3	105481	COUPLER, DUST CAP MALE	1
4	105482	COUPLER, DUST CAP FEMALE	1
5	2216-12-12S	INTERNAL PIPE O-RING BOSS	2
6	105822	DECAL, HYD COUPLER	1

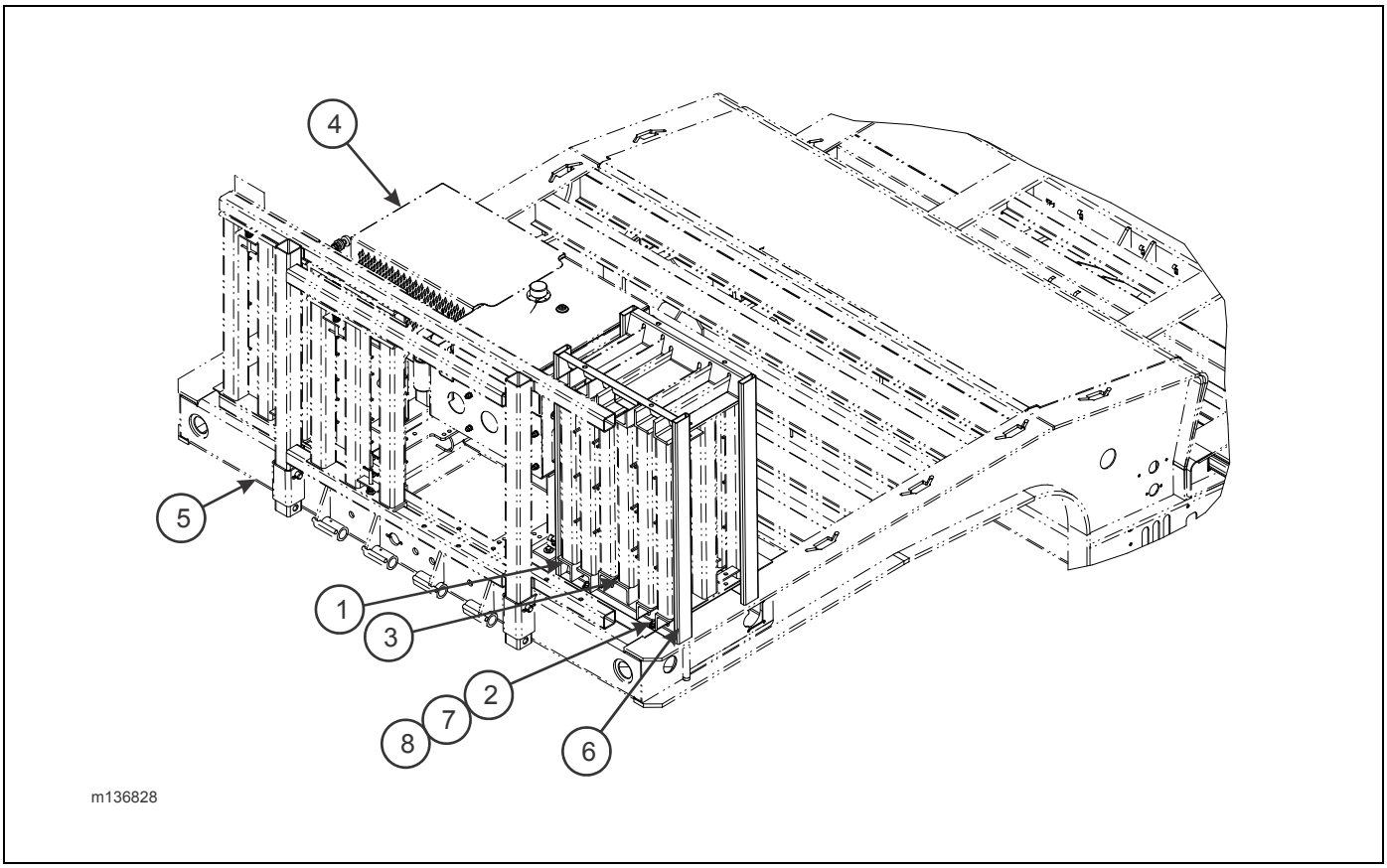


Figure 2-90: Upper Deck Extension Bridge Storage Rack (Option)

UPPER DECK EXTENSION BRIDGE STORAGE RACK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	136828	UPPER DECK EXTENSION BRIDGE STORAGE RACK (OPTION)	
1	120492	EXTENSION WELDMENT, REAR WHEEL WELL	REF
2	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	4
3	126609	EXTENSION WELDMENT, FRONT WHEEL WELL	REF
4	131297	STAND INSTALLATION, U/D ENG PACKAGE	1
5	136396	P/O EXTENSION INSTALLATION (SEE PAGE 2-10)	REF
6	136829	RACK WELDMENT U/D STOR EXT BRIDGE	1
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
8	1-861-010032-15	WASHER, FLAT 1/2W	4
9	126610	RACK WELDMENT, STORAGE EXT BRIDGES	-1
10	1-557-010362-63	PIN, COTTER 1/4 X 2	-4
11	6-557-010163	PIN, HITCH LEVELING LINK	-2

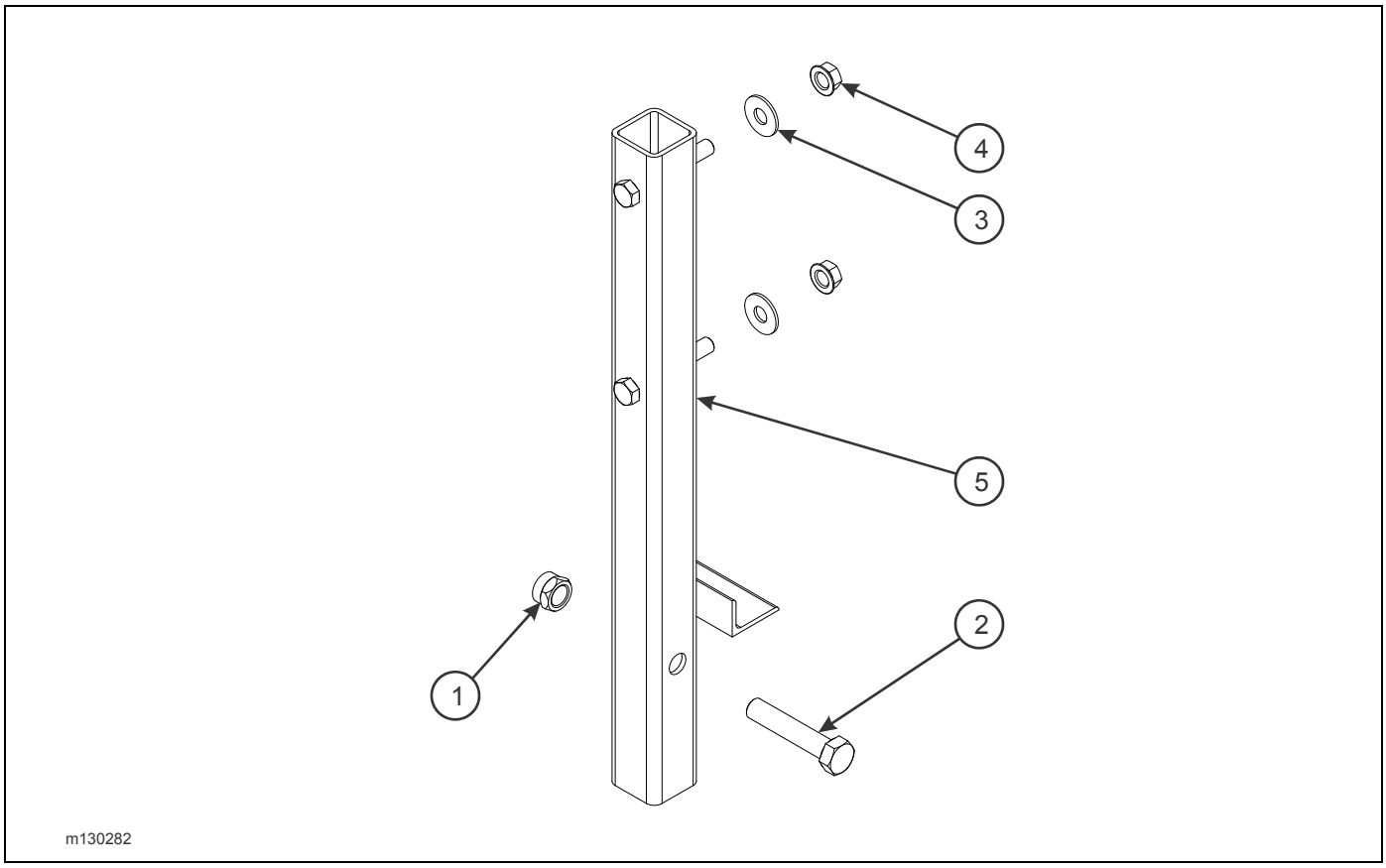


Figure 2-91: Spare Tire Mount Assembly

SPARE TIRE MOUNT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	130282	SPARE TIRE MOUNT ASSEMBLY	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1
2	1-654-010065-15	SCREW, HEX HEAD CAP 1-8 X 5 GR5	1
3	1-861-010032-21	WASHER, FLAT, 3/4W	2
4	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	2
5	130280	MOUNT WELDMENT, SPARE TIRE	1

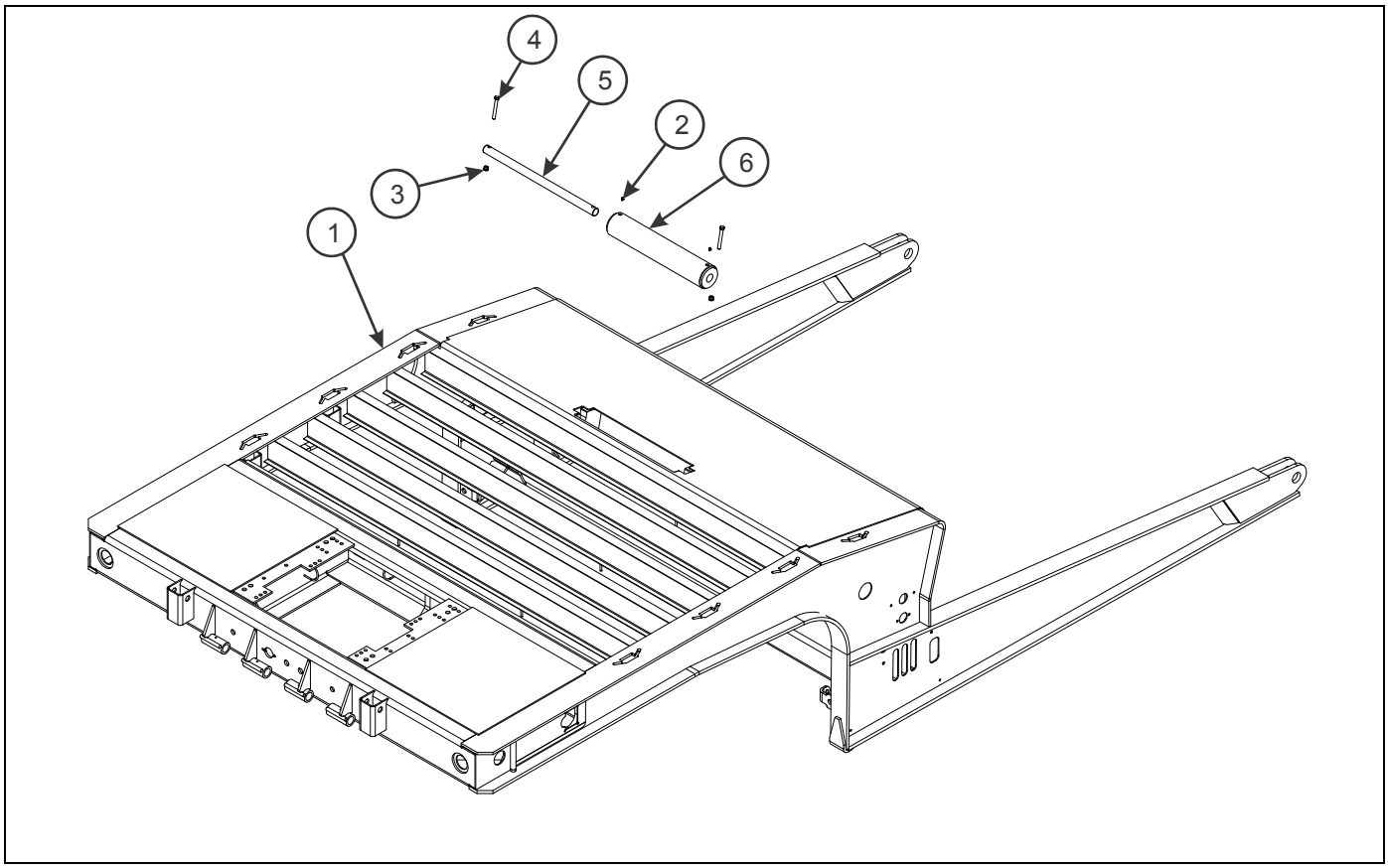


Figure 2-92: Upper Deck Extension Bridge Storage Rack (Option)

UPPER DECK ROLLER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION (OPTION)	
1	130662	GOOSENECK WELDMENT	REF
2	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
5	3-642-010134	ROLLER ROD	1
6	3-645-010059	ROLLER WELDMENT, CABLE U/D	1

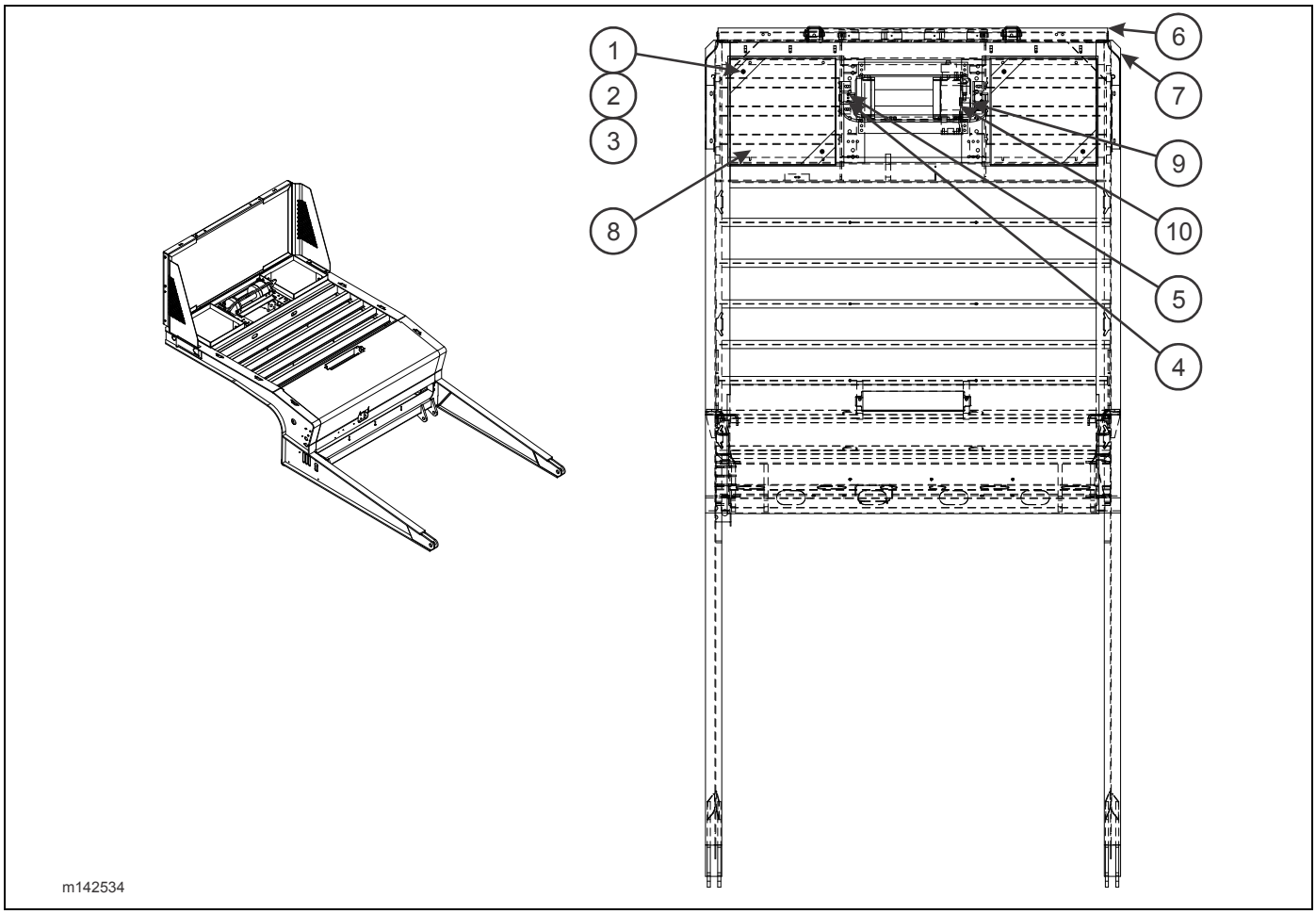


Figure 2-93: Chain Tray Assembly (Option)

CHAIN TRAY ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	142534	CHAIN TRAY ASSEMBLY (OPTION)	
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
3	1-861-010032-11	WASHER, FLAT 3/8W	8
4	119621	ANCHOR, CABLE GUIDE WINCH	REF
5	119622	PIN, WINCH ROLLER PIVOT	REF
6	128136	BULKHEAD INSTALLATION (SEE PAGE 2-7)	REF
7	130662	GOOSENECK WELDMENT	REF
8	142532	CHAIN TRAY WELDMENT, UPPER DECK	2
9	3-125-010464	BRACKET WELDMENT, WINCH ROLLER	REF
10	3-873-010140	WINCH INSTALLATION 20K UPPER DECK (SEE PAGE 2-66)	REF

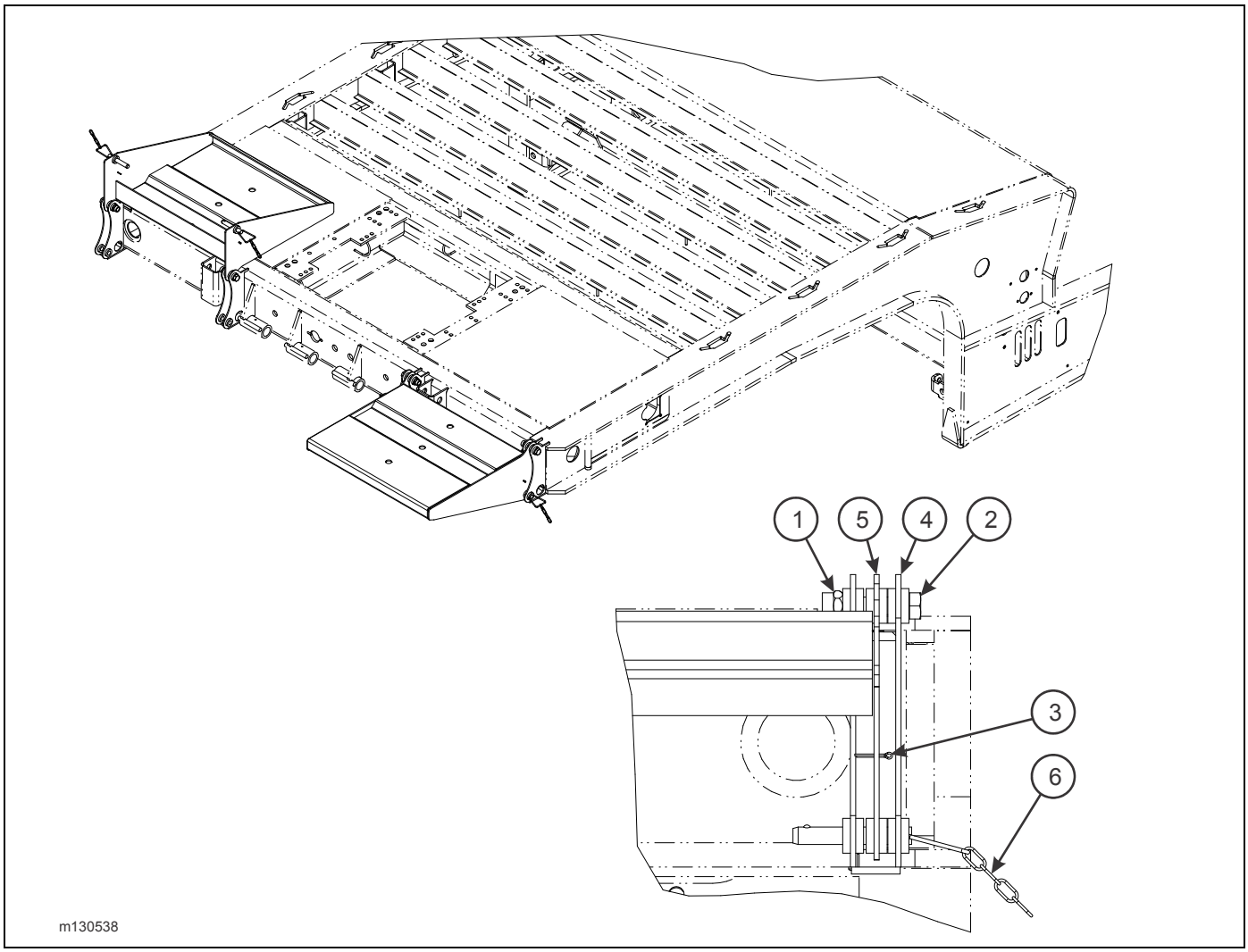


Figure 2-94: Front Flip Extension (Option)

FRONT FLIP EXTENSION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	130538	FRONT FLIP EXTENSION (OPTION)	
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
2	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	4
3	101386	PIN, COTTER 1/8 X 1	4
4	130537	FRAME MOD., FRONT FLIP	1
5	130540	EXTENSION WELDMENT, FRONT FLIP	2
6	2-557-010426	PIN, DETENT 5/8 W/ CHAIN	4

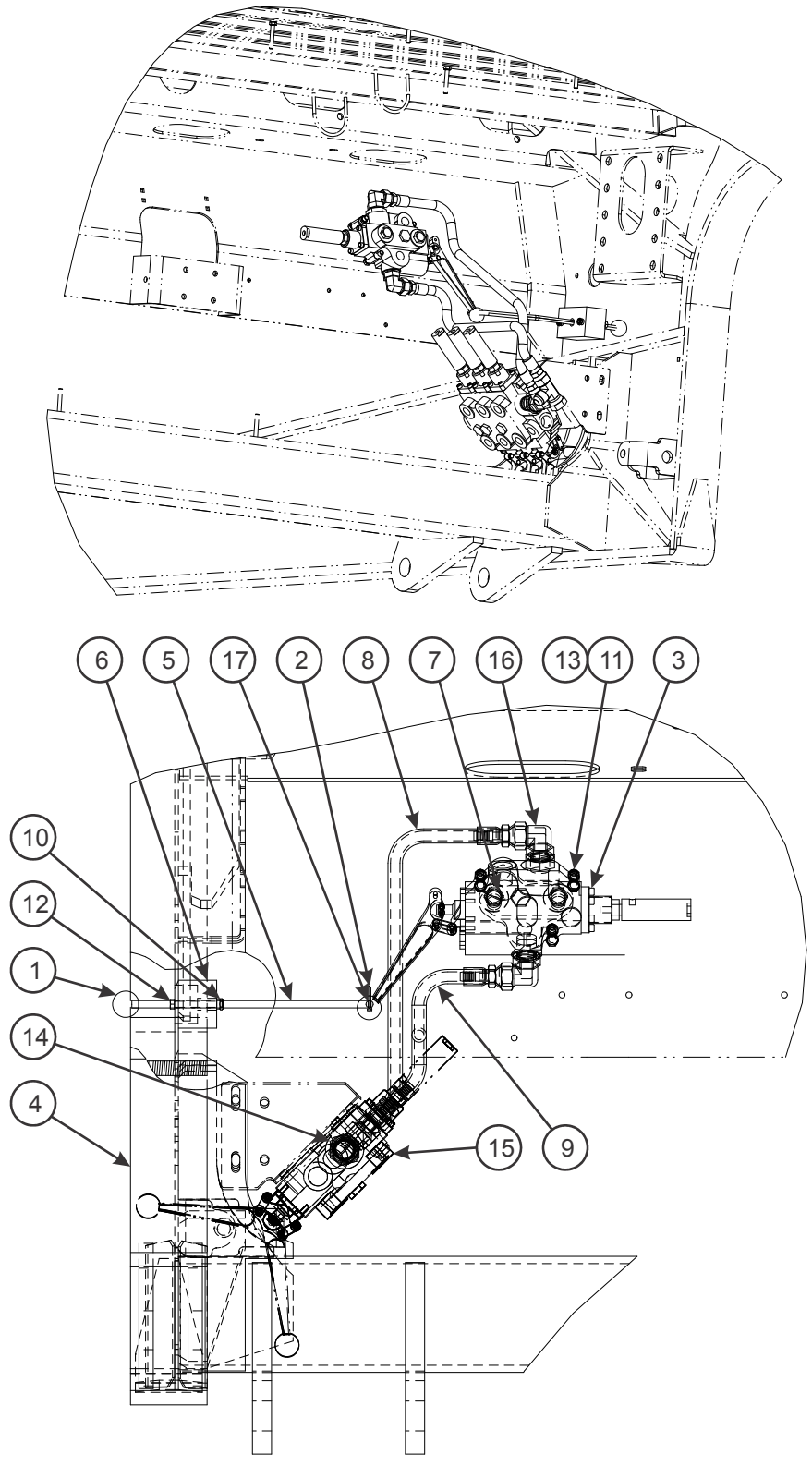


Figure 2-95: Single Valve Installation (Option)

SINGLE VALVE INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128248	SINGLE VALVE INSTALLATION (OPTION)	
1	95	KNOB	1
2	101386	PIN, COTTER 1/8 X 1	1
3	112685	VALVE, HYD SINGLE SPOOL	1
4	120711	GOOSENECK WELDMENT	REF
5	127862	HANDLE, SINGLE SPOOL VALVE	1
6	127863	SLIDE, HANDLE SINGLE SPOOL VALVE	1
7	1-007-010025	PLUG 3/4-16	2
8	134131	HOSE ASSEMBLY 1/2 X 26	1
9	1-397-010372030	HOSE ASSEMBLY 1/2 X 30	1
10	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
11	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	3
12	1-654-010049-11	SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5	2
13	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3
14	1V0249	HYDR. POWER BEYOND REMOTE	1
15	203102-12-12S	ADAPTER, TEE	1
16	2062-12-12S	ADAPTER, 90	3
17	3-360-010008	VALVE HANDLE MODIFICATION	1

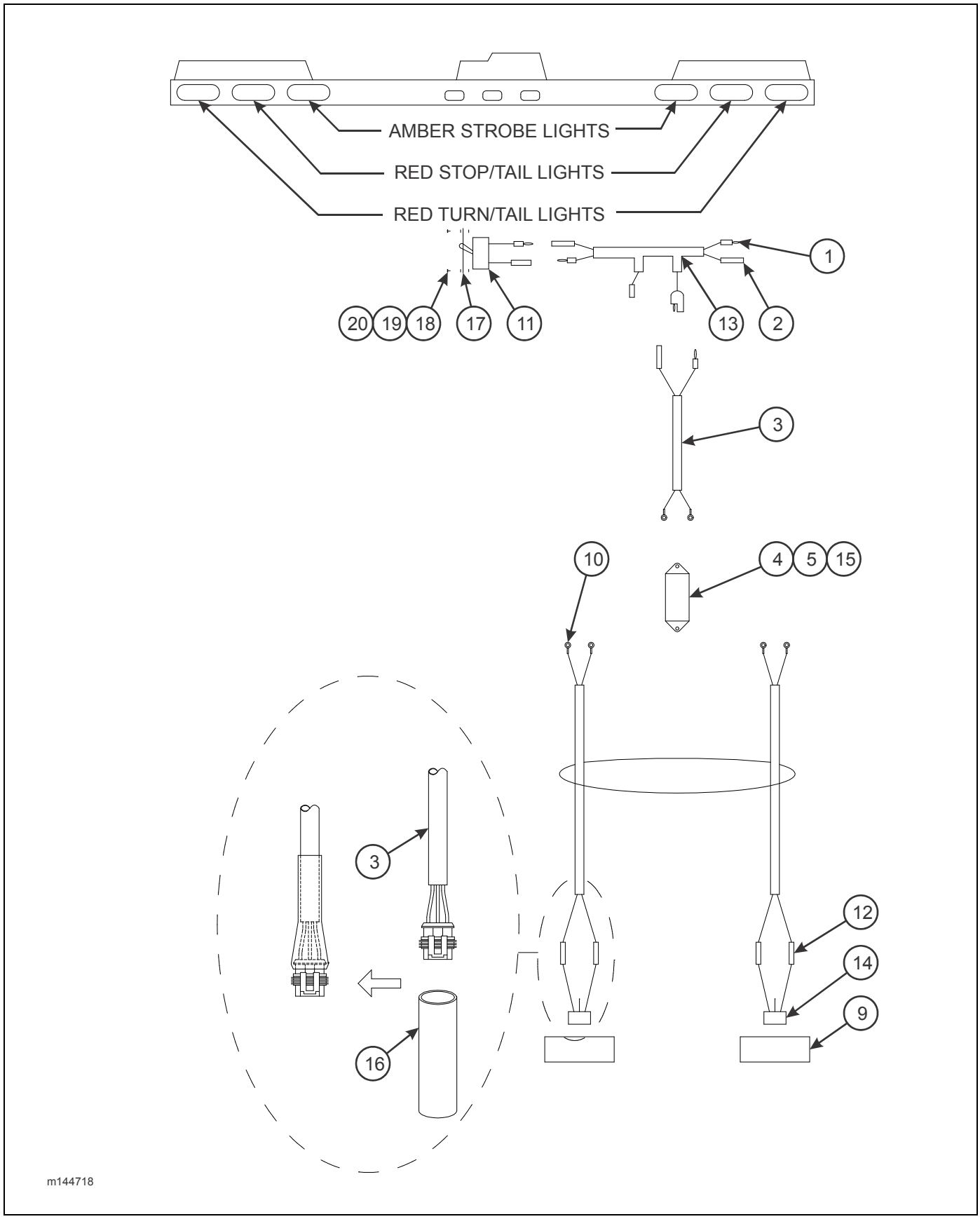


Figure 2-96: Rear Strobe Light Installation (Option)

REAR STROBE LIGHT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	144718	REAR STROBE LIGHT INSTALLATION (OPTION)	
1	STP-147	TERMINAL, BULLET ELECTRICAL	3
2	STP-164	BULLET, CONNECTOR FEMALE	3
3	W214S-1	CABLE, 2 WIRE 14 AWG	AR
4	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
5	1-654-010047-06	SCREW, HEAD CAP 1/4-20 X 1 GR5	2
8	143113	LIGHT RED LED S/T/T (NOT SHOWN)	-2
9	130883	LIGHT, OVAL AMBER STROBE LED	12
10	239-3646-4	TERMINAL	6
11	3-272-010017	TOGGLE SWITCH, SEALED SPST	1
12	3-272-010021	ELECT BUTT SPLICE	4
13	3-368-010253	HARNESS ASSEMBLY, CONTROL PANEL	1
14	130884	PIGTAIL LED	2
15	750-029	JUNCTION BOX 7 STUD	1
16	0013007	HEAT SHRINK TUBING	AR
17	137987	MOUNT ELECTRIC SWITCH	1
18	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
19	1-861-010032-09	WASHER, FLAT 5/16	2
20	1-512-010005-03	NUT, HEX LOCK 5/16-18	2
21	144608	DUMMY PLUG S/T/T LEAD GROTE (NOT SHOWN)	2

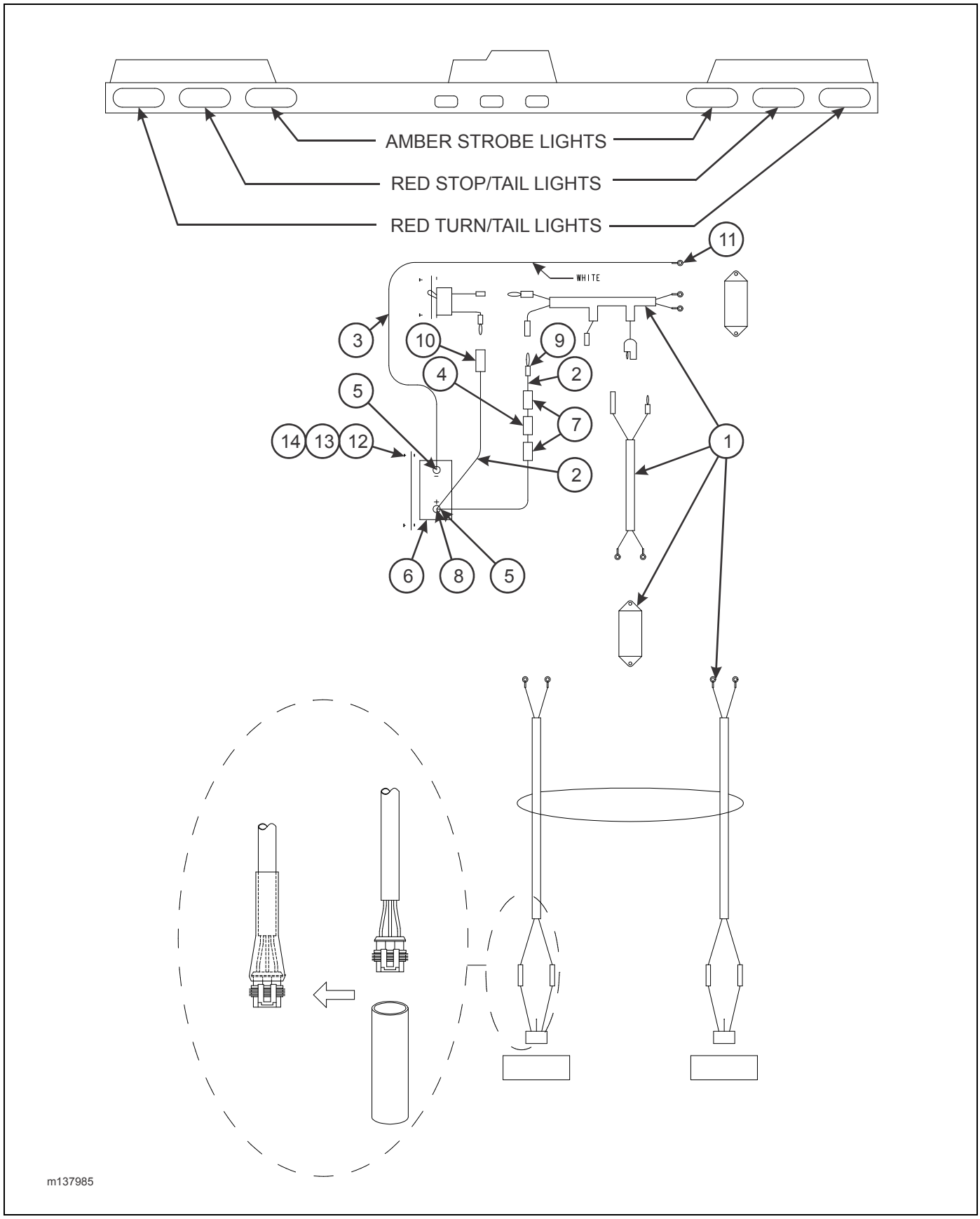


Figure 2-97: Battery Backup Strobe Light Installation (Option)

BATTERY BACKUP STROBE LIGHT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	137985	BATTERY BACKUP STROBE LIGHT INSTALLATION (OPTION)	
1	130882	STROBE LIGHT	REF
2	1-879-010005	WIRE, BROWN 14 AWG	AR
3	1-879-010010	WIRE, WHITE 14 AWG	AR
4	2-272-010109	DIODE 20V	1
5	239-3650-1	TERMINAL FEMALE SLIP	3
6	3-128-010032	BATTERY BREAK-AWAY	1
7	3-272-010021	ELECT BUTT SPLICE 16/14	2
8	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSH-ON	1
9	STP-147	TERMINAL, BULLET ELECTRICAL	1
10	STP-164	BULLET, CONNECTOR FEMALE	1
11	239-3646-4	TERMINAL	1
12	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	4
13	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	4
14	1-861-010032-07	WASHER, FLAT 1/4	4

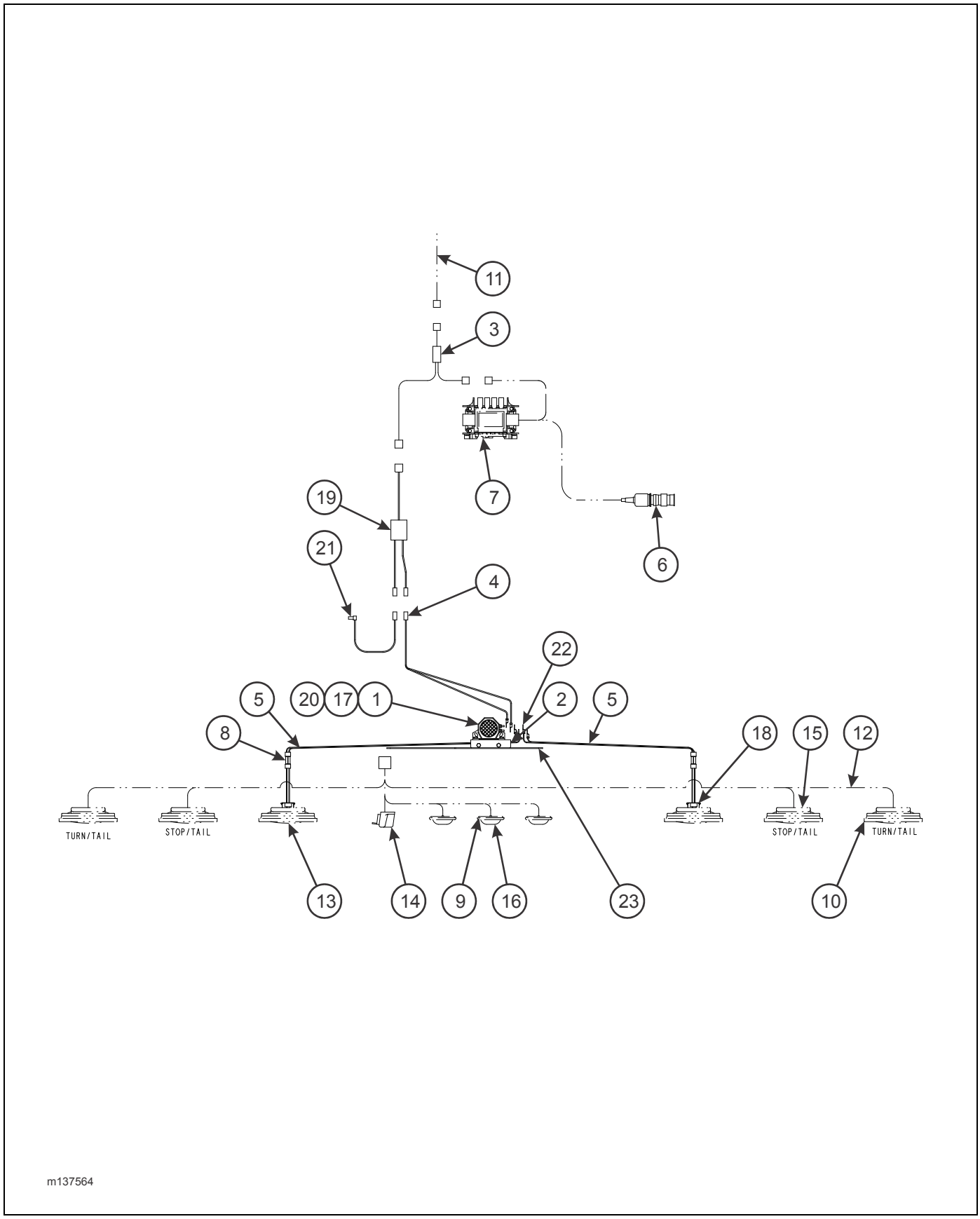


Figure 2-98: Backup Alarm/Light Installation (Option)

BACKUP ALARM/LIGHT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	137564	BACKUP ALARM/LIGHT INSTALLATION (OPTION)	
1	117997	ALARM, dB ADJUSTING SMART BACKUP	1
2	127991	BRACKET, BACKUP ALARM MOUNT I/C	1
3	137557	HARNESS, Y-CABLE ABS/RDM	1
4	137558	CABLE, TWO WIRE OUTPUT 6'	1
5	W214S-1	CABLE, 2 WIRE 14 AWG	1
6	114590	DIAGNOSTIC CABLE BLINK LIGHT	REF
7	114588	ECU/VALVE ASSEMBLY 4S/2M	REF
8	3-272-010021	ELECT BUTT SPLICE	4
9	107598	GROMMET, RECT CLEARANCE/MARKER LAMP	REF
10	60700	GROMMET, TRUCK LITE LIGHT	REF
11	102836	HARNESS ASSEMBLY, E-CHAIN ABS	REF
12	114581	HARNESS, MOD BUMPER LED	1
13	60004	LAMP, BACKUP W/ GROMMET 3 X 7 (INCL ITEMS 10 & 18)	REF
14	15009	LICENSE LAMP	REF
15	116131	LIGHT, RED LED S/T/T	REF
16	107599	LIGHT, RED RECT CLEARANCE/MARKER	REF
17	108417	NUT, HEX FLANGE SPIRALOCK 1/4-20	4
18	94992	PLUG	REF
19	137563	REVERSE DETECTION MODULE	1
20	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	4
21	137559	SENSOR, DIRECTIONAL CABLE 6.5'	1
22	239-3646-3	TERMINAL	6
23	119531	PLATE, MOUNT	REF

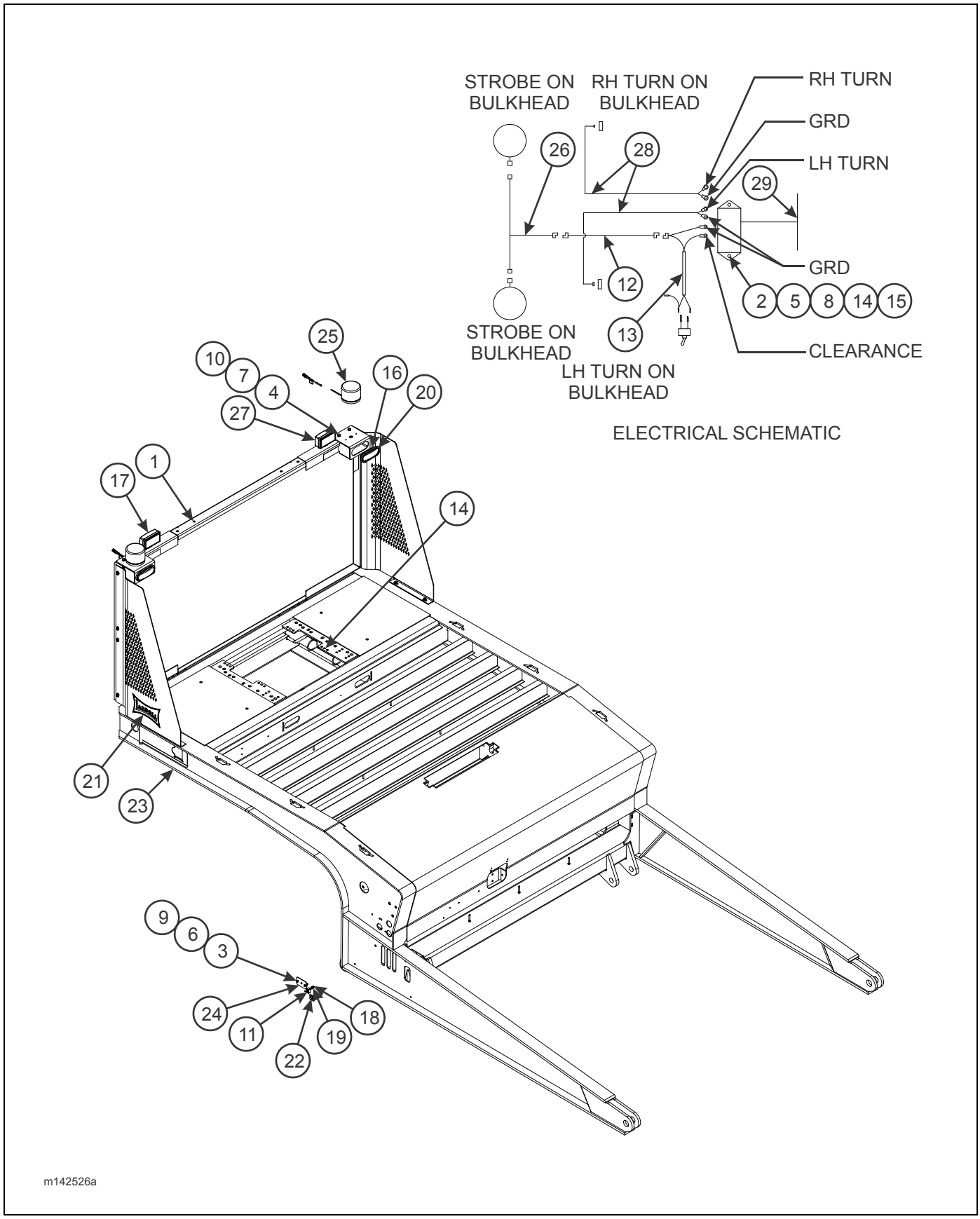


Figure 2-99: Strobe and Turn Light Installation for Bulkhead (Option)

STROBE AND TURN LIGHT INSTALLATION FOR BULKHEAD (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	142526	STROBE AND TURN LIGHT INST FOR BULKHEAD (OPTION)	
1	1-343-010007	GROMMET	4
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
5	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
6	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18 X 1 GR5	2
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
8	1-861-010032-06	WASHER, FLAT 1/4N	2
9	1-861-010032-09	WASHER, FLAT 5/16W	2
10	1-861-010032-15	WASHER, FLAT 1/2W	4
11	3-272-010017	TOGGLE SWITCH SEALED SPST	1
12	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT	1
13	3-368-010253	HARNESS ASSEMBLY, CONTROL PANEL	1
14	750-029	JUNCTION BOX, 7 STUD	1
15	32002	TERMINAL, 12-10 W/ #10 RING WAY	4
16	60700	GROMMET, TRUCK LITE LIGHT	2
17	64181	RECT QUARTZ HALOGEN LAMP	REF
18	104043	CONNECTOR, MALE	1
19	104044	CONNECTOR, FEMALE	1
20	121377	LIGHT, YELLOW LED S/T/T	2
21	128136	BULKHEAD INSTALLATION (SEE PAGE 2-7)	REF
22	130116	DECAL, ON/OFF LIGHT	1
23	130662	GOOSENECK WELDMENT	REF
24	137987	MOUNT, ELECTRIC SWITCH	1
25	140328	STROBE LIGHT MOD ASSEMBLY	2
26	140330	HARNESS, STROBE BEACON BULKHEAD	1
27	142529	MOUNT WELDMENT, STROBE AND TURN	2
28	142530	HARNESS, TURN BULKHEAD MOUNT	2
29	146929	HARNESS, Y SPLITTER GROTE	1

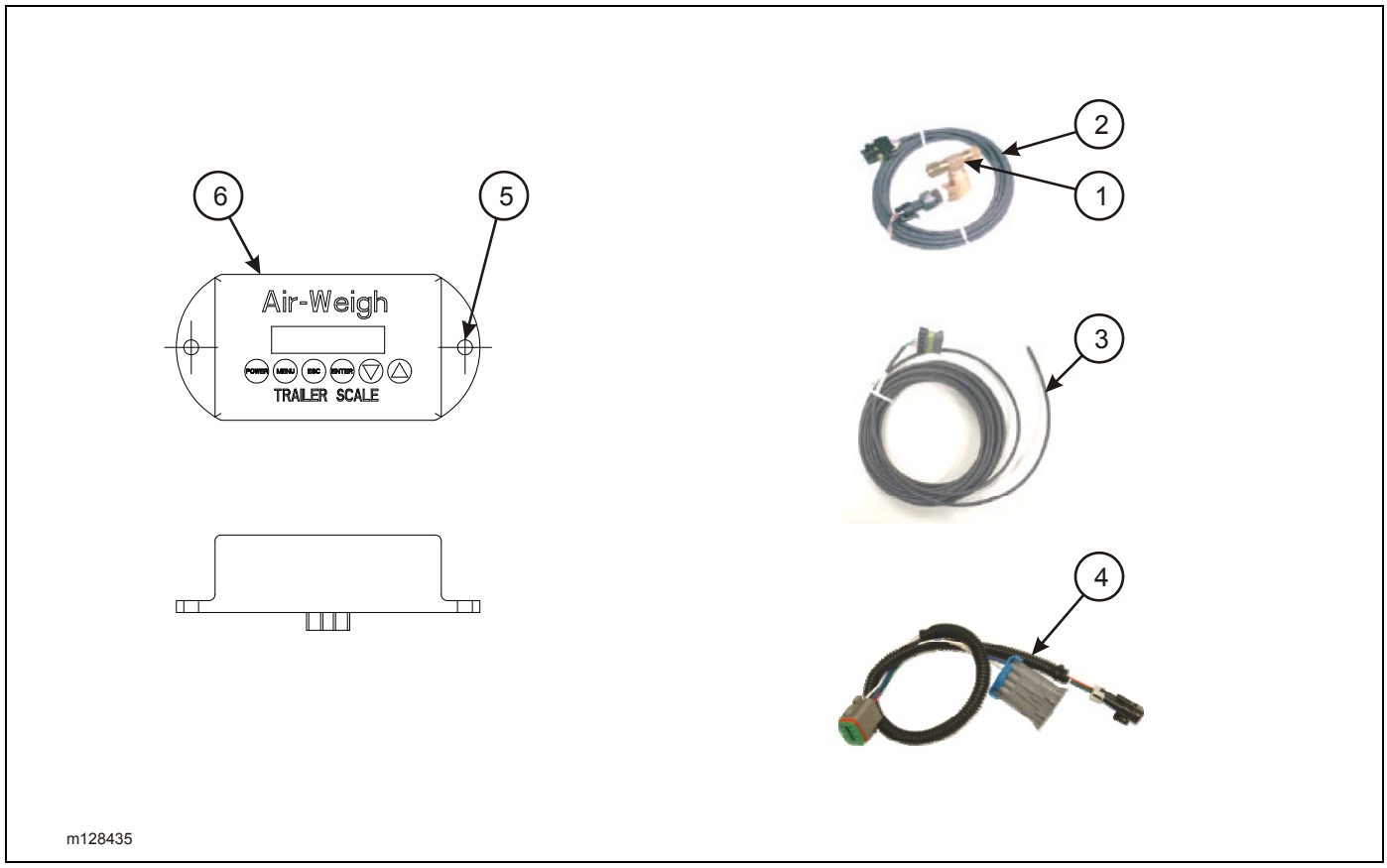


Figure 2-100: Air Digital Scale (Option)

AIR DIGITAL SCALE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	128435	SCALE, AIR DIGITAL (TRAVELING AXLE)	
1	149543	SENSOR ASSEMBLY, 5V 3/8” BRASS	1
2	166001	CABLE, AW5800, 2 PART SENSOR 50'	1
3	166002	CABLE, AW5800 TRAILER POWER BLUNT CUT 15'	1
4	142895	CABLE, AW5800, TRAILER SCALE INTERFACE 2"	1
5	-----	HARDWARE KIT, AW 5800	1
6	166000	TRAILER SCALE AW5800	1
7	-----	NYLON TIE 7" T-50 NYLON (NOT SHOWN)	25
8	-----	MANUAL, TRAILER SCALE AW5800 (NOT SHOWN)	1
9	166924	DECAL, AW5800 TRAILER SIDE-M (NOT SHOWN)	1

NOTES:

Chapter 3

Numerical Index

Numerics

0013007 . . . . . *2-162*
005-074-00 . . . . . *2-56*
005-098-00 . . . . . *2-56*
005-099-00 . . . . . *2-56*
006-114-00 . . . . . *2-56*
006-115-00 . . . . . *2-56*
010-052-00 . . . . . *2-56*
010700437 . . . . . *2-136*
034-057-07 . . . . . *2-56*
034-058-07 . . . . . *2-56*
034-188-03 . . . . . *2-56*
034-189-03 . . . . . *2-56*
040-320-01 . . . . . *2-56*
046-097-00 . . . . . *2-56*
056-018-00 . . . . . *2-56*
0600-250-01000 . . . . . *2-10*
0600-375-01500 . . . . . *2-13*
069-078-00 . . . . . *2-56*
100348 . . . . . *2-116*, *2-118*, *2-121*
100401 . . . . . *2-64*
100402 . . . . . *2-64*
100600 . . . . . *2-68*, *2-71*, *2-74*, *2-129*
1-007-010006 . . . . . *2-31*
1-007-010025 . . . . . *2-111*, *2-152*, *2-160*
1-007-010058 . . . . . *2-116*, *2-118*
10078 . . . . . *2-77*, *2-79*
100823 . . . . . *2-4*
100939 . . . . . *2-4*
100941 . . . . . *2-44*
100948 . . . . . *2-59*
100949 . . . . . *2-59*, *2-62*
101386 . . . . . *2-158*, *2-160*
101528 . . . . . *2-38*, *2-44*
101848 . . . . . *2-60*
101852 . . . . . *2-59*
101855 . . . . . *2-129*
102-0031 . . . . . *2-114*, *2-134*
102-1097 . . . . . *2-114*
102186 . . . . . *2-67*, *2-74*
102187 . . . . . *2-67*, *2-71*
102188 . . . . . *2-67*, *2-71*, *2-74*
102361 . . . . . *2-54*
102363 . . . . . *2-38*, *2-44*, *2-48*, *2-50*, *2-54*
102364 . . . . . *2-54*
102698 . . . . . *2-38*
102732 . . . . . *2-48*, *2-52*
102836 . . . . . *2-166*
103055 . . . . . *2-38*, *2-44*, *2-130*
103056 . . . . . *2-38*, *2-44*, *2-130*
103082 . . . . . *2-44*, *2-48*
103084 . . . . . *2-38*, *2-50*
103805 . . . . . *2-56*
103816 . . . . . *2-38*, *2-59*
103817 . . . . . *2-59*
103841 . . . . . *2-15*, *2-21*, *2-155*
103861 . . . . . *2-60*
104034 . . . . . *2-38*, *2-44*

104043 . . . . . *2-168*
104044 . . . . . *2-168*
104241 . . . . . *2-134*
104242 . . . . . *2-134*
104243 . . . . . *2-132*
104253 . . . . . *2-10*, *2-13*
104330 . . . . . *2-114*
1046 . . . . . *2-84*
105-0094 . . . . . *2-4*
105-0105 . . . . . *2-143*
105408 . . . . . *2-54*
105479 . . . . . *2-15*, *2-31*, *2-143*, *2-153*
105480 . . . . . *2-15*, *2-31*, *2-143*, *2-153*
105481 . . . . . *2-15*, *2-31*, *2-143*, *2-153*
105482 . . . . . *2-15*, *2-31*, *2-144*, *2-153*
105483 . . . . . *2-15*
105822 . . . . . *2-129*, *2-153*
105902 . . . . . *2-153*
105909 . . . . . *2-4*
105953 . . . . . *2-91*, *2-97*
105954 . . . . . *2-91*, *2-97*
105967 . . . . . *2-91*, *2-97*
106379 . . . . . *2-105*
106385 . . . . . *2-105*
106759 . . . . . *2-31*
106760 . . . . . *2-31*
106956 . . . . . *2-79*
107368 . . . . . *2-67*, *2-71*, *2-82*
107369 . . . . . *2-68*, *2-71*, *2-82*
107498 . . . . . *2-31*
107499 . . . . . *2-31*
107500 . . . . . *2-31*
107513 . . . . . *2-31*
107598 . . . . . *2-166*
107599 . . . . . *2-166*
108295 . . . . . *2-144*
108417 . . . . . *2-166*
108601 . . . . . *2-143*
108610 . . . . . *2-4*
108801 . . . . . *2-62*, *2-88*
108802 . . . . . *2-62*
108859 . . . . . *2-10*
109161 . . . . . *2-138*
109533 . . . . . *2-54*
109711 . . . . . *2-138*
109712 . . . . . *2-138*
1-1/4ST ELL *2-31*
110-0116 . . . . . *2-144*
110-0253 . . . . . *2-144*
110448 . . . . . *2-80*
110451 . . . . . *2-80*
110452 . . . . . *2-77*, *2-80*
110-4950 . . . . . *2-38*
110578 . . . . . *2-144*
110975 . . . . . *2-64*
110976 . . . . . *2-64*
111007 . . . . . *2-54*
111008 . . . . . *2-54*
111010 . . . . . *2-54*
111011 . . . . . *2-54*
111012 . . . . . *2-54*
111013 . . . . . *2-54*
111014 . . . . . *2-54*
111016 . . . . . *2-54*
111017 . . . . . *2-54*
111018 . . . . . *2-54*
111019 . . . . . *2-54*
111021 . . . . . *2-52*
111022 . . . . . *2-54*
111023 . . . . . *2-54*
111091 . . . . . *2-106*, *2-108*
111092 . . . . . *2-106*, *2-108*
111093 . . . . . *2-106*, *2-108*
111094 . . . . . *2-106*, *2-108*
111095 . . . . . *2-106*, *2-108*
111096 . . . . . *2-106*, *2-108*

11117 . . . . . *2-76*
11128 . . . . . *2-76*
11129 . . . . . *2-76*
11130 . . . . . *2-76*
111301 . . . . . *2-21*
111302 . . . . . *2-114*, *2-134*
11133 . . . . . *2-76*
111351 . . . . . *2-105*
111383 . . . . . *2-106*
111384 . . . . . *2-106*
111385 . . . . . *2-100*, *2-106*
111386 . . . . . *2-100*, *2-106*
111387 . . . . . *2-105*
11142 . . . . . *2-76*
11144 . . . . . *2-76*
111641 . . . . . *2-88*
111870 . . . . . *2-136*
112013 . . . . . *2-149*
112047 . . . . . *2-64*
11240 . . . . . *2-77*
112492 . . . . . *2-64*
112641 . . . . . *2-108*
112678 . . . . . *2-132*
112679 . . . . . *2-132*
112685 . . . . . *2-160*
11308 . . . . . *2-76*
11309 . . . . . *2-79*
11310 . . . . . *2-79*
113268 . . . . . *2-38*, *2-44*
113388 . . . . . *2-143*
113536 . . . . . *2-64*
113544 . . . . . *2-144*
11368 . . . . . *2-76*
113856 . . . . . *2-143*
11398 . . . . . *2-80*
11402 . . . . . *2-79*
11407 . . . . . *2-79*
11411 . . . . . *2-79*
11419 . . . . . *2-79*
11420 . . . . . *2-79*
11421 . . . . . *2-79*
114241 . . . . . *2-105*
11425 . . . . . *2-79*
11426 . . . . . *2-80*
11429 . . . . . *2-79*
11430 . . . . . *2-79*
11431 . . . . . *2-79*
11434 . . . . . *2-79*
11440 . . . . . *2-79*
11441 . . . . . *2-79*
11446 . . . . . *2-79*
114540 . . . . . *2-17*, *2-19*
114570 . . . . . *2-130*
114571 . . . . . *2-130*
114581 . . . . . *2-166*
114584 . . . . . *2-59*, *2-60*
114586 . . . . . *2-59*, *2-60*
114588 . . . . . *2-60*, *2-166*
114590 . . . . . *2-166*
114619 . . . . . *2-64*
114814 . . . . . *2-4*, *2-143*
114815 . . . . . *2-143*
114983 . . . . . *2-138*
115703 . . . . . *2-56*
115708 . . . . . *2-56*
115877 . . . . . *2-4*, *2-144*
115888 . . . . . *2-143*
11599 . . . . . *2-79*
116131 . . . . . *2-166*
116326 . . . . . *2-143*
116328 . . . . . *2-143*
116330 . . . . . *2-143*
116378 . . . . . *2-74*
116429 . . . . . *2-114*, *2-134*
116488 . . . . . *2-134*
116800 . . . . . *2-138*

116822 . . . . . *2-4*
116837 . . . . . *2-17*, *2-88*
116850 . . . . . *2-129*
116943 . . . . . *2-4*
117304 . . . . . *2-59*
117386 . . . . . *2-21*
117400 . . . . . *2-15*, *2-28*
117544 . . . . . *2-4*
117556 . . . . . *2-5*
117558 . . . . . *2-131*
117559 . . . . . *2-131*
117561 . . . . . *2-131*
117562 . . . . . *2-5*
117565 . . . . . *2-4*
117873 . . . . . *2-143*
11791 . . . . . *2-80*
117997 . . . . . *2-166*
1-181-010046-7 . . . . . *2-144*
118-2659-9 . . . . . *2-59*
118-2676-2 . . . . . *2-72*
11837 . . . . . *2-76*
118627 . . . . . *2-21*
118723 . . . . . *2-10*
118800 . . . . . *2-129*
118801 . . . . . *2-130*
118803 . . . . . *2-129*
118804 . . . . . *2-129*
118805 . . . . . *2-130*
118889 . . . . . *2-5*
118897 . . . . . *2-44*
118929 . . . . . *2-10*
118930 . . . . . *2-10*
119084 . . . . . *2-102*
119206 . . . . . *2-143*
119445 . . . . . *2-143*
119531 . . . . . *2-166*
119577 . . . . . *2-143*
119580 . . . . . *2-38*, *2-44*
119621 . . . . . *2-67*, *2-71*, *2-74*, *2-157*
119622 . . . . . *2-67*, *2-71*, *2-74*, *2-157*
119623 . . . . . *2-74*
119624 . . . . . *2-74*
119949 . . . . . *2-131*
120376 . . . . . *2-10*
120377 . . . . . *2-10*
120379 . . . . . *2-10*
120380 . . . . . *2-10*
120452 . . . . . *2-15*
120454 . . . . . *2-15*
120457 . . . . . *2-10*
120458 . . . . . *2-10*
120459 . . . . . *2-10*
120461 . . . . . *2-10*
120479 . . . . . *2-145*
120491 . . . . . *2-10*
120492 . . . . . *2-10*, *2-154*
120654 . . . . . *2-143*
120659 . . . . . *2-144*
120660 . . . . . *2-144*
120661 . . . . . *2-143*
120711 . . . . . *2-160*
12073 . . . . . *2-79*
12075 . . . . . *2-76*
120751 . . . . . *2-19*
120822 . . . . . *2-10*
121031 . . . . . *2-17*
121077 . . . . . *2-38*, *2-44*
121078 . . . . . *2-38*
121124 . . . . . *2-114*, *2-134*
121125 . . . . . *2-4*
121355 . . . . . *2-38*, *2-44*
121377 . . . . . *2-168*
121402 . . . . . *2-116*, *2-118*
12146 . . . . . *2-80*
121498 . . . . . *2-38*, *2-44*, *2-116*
121515 . . . . . *2-129*

12-16 070120 . . . . . *2-31*
121686 . . . . . *2-38*
121697 . . . . . *2-149*
122333 . . . . . *2-88*, *2-100*
122334 . . . . . *2-100*
122336 . . . . . *2-100*
122337 . . . . . *2-100*
122380 . . . . . *2-4*
122458 . . . . . *2-100*
122536 . . . . . *2-38*, *2-44*
122538 . . . . . *2-114*
122540 . . . . . *2-116*
122557 . . . . . *2-62*
122621 . . . . . *2-21*
122630 . . . . . *2-59*
122812 . . . . . *2-114*
122813 . . . . . *2-114*
122913 . . . . . *2-10*
122916 . . . . . *2-10*
122938 . . . . . *2-149*
123014 . . . . . *2-144*
123150 . . . . . *2-15*
123166 . . . . . *2-143*, *2-145*, *2-146*
123210 . . . . . *2-66*
123211 . . . . . *2-114*
123490 . . . . . *2-134*
1-242-010178-2 . . . . . *2-136*
1-242-010180-2 . . . . . *2-134*, *2-136*
124549 . . . . . *2-79*
124556 . . . . . *2-145*
124559 . . . . . *2-44*
12465 . . . . . *2-79*
124901 . . . . . *2-150*
124902 . . . . . *2-150*
124903 . . . . . *2-150*
124904 . . . . . *2-150*
124908 . . . . . *2-150*
124909 . . . . . *2-150*
124910 . . . . . *2-150*
124911 . . . . . *2-150*
124912 . . . . . *2-150*
124913 . . . . . *2-150*
124971 . . . . . *2-146*, *2-154*
125057 . . . . . *2-150*
125130 . . . . . *2-31*
125192 . . . . . *2-28*
125194 . . . . . *2-28*
125196 . . . . . *2-28*
125520 . . . . . *2-13*
125892 . . . . . *2-71*, *2-88*
126537 . . . . . *2-38*, *2-118*
126538 . . . . . *2-94*
126539 . . . . . *2-94*
126580 . . . . . *2-94*
126601 . . . . . *2-10*
126602 . . . . . *2-10*
126603 . . . . . *2-10*
126605 . . . . . *2-10*
126606 . . . . . *2-10*
126609 . . . . . *2-10*, *2-154*
126610 . . . . . *2-10*, *2-154*
126629 . . . . . *2-71*
126641 . . . . . *2-114*
126672 . . . . . *2-72*
126676 . . . . . *2-72*
126677 . . . . . *2-72*
126679 . . . . . *2-72*
126736 . . . . . *2-114*
126791 . . . . . *2-72*
126900 . . . . . *2-54*
127191 . . . . . *2-129*
127192 . . . . . *2-129*
127422 . . . . . *2-15*
127579 . . . . . *2-44*, *2-59*
12767 . . . . . *2-80*
127691 . . . . . *2-15*

127708 . . . . . *2-54*
127711 . . . . . *2-13*
127712 . . . . . *2-13*
127813 . . . . . *2-143*
12783 . . . . . *2-79*
127862 . . . . . *2-160*
127863 . . . . . *2-160*
127991 . . . . . *2-166*
128020 . . . . . *2-13*
128136 . . . . . *2-7*, *2-157*, *2-168*
128137 . . . . . *2-7*, *2-151*
128138 . . . . . *2-7*, *2-151*
128152 . . . . . *2-7*
128153 . . . . . *2-7*
12817 . . . . . *2-76*
128226 . . . . . *2-13*
128227 . . . . . *2-13*
128228 . . . . . *2-13*
128229 . . . . . *2-13*
128248 . . . . . *2-160*
128435 . . . . . *2-169*
128501 . . . . . *2-144*
128539 . . . . . *2-13*
128672 . . . . . *2-38*
128774 . . . . . *2-143*
129069 . . . . . *2-134*
129084 . . . . . *2-134*
129085 . . . . . *2-134*
129088 . . . . . *2-134*
129099 . . . . . *2-114*
129264 . . . . . *2-143*
129287 . . . . . *2-144*
1-295-010001 . . . . . *2-31*, *2-143*
1-295-010002 . . . . . *2-31*, *2-143*
1-297-010007-04 . . . . . *2-67*, *2-88*, *2-105*
1-297-010007-05 . . . . . *2-67*, *2-88*, *2-105*
1-297-010007-11 . . . . . *2-48*, *2-50*, *2-148*
1-297-010007-12 . . . . . *2-59*, *2-62*
1-297-010007-15 . . . . . *2-59*
1-297-010007-16 . . . . . *2-59*, *2-62*
1-297-010008-05 . . . . . *2-50*, *2-68*, *2-102*, *2-105*
1-297-010008-07 *2-48*, *2-50*, *2-67*, *2-88*, *2-94*, *2-105*
1-297-010008-18 . . . . . *2-50*, *2-59*
1-297-010008-23 . . . . . *2-59*
1-297-010008-24 . . . . . *2-59*
1-297-010008-26 . . . . . *2-59*
1-297-010010-01 . . . . . *2-48*, *2-50*
1-297-010010-03 . . . . . *2-50*
1-297-010010-04 . . . . . *2-48*, *2-50*
1-297-010011-02 . . . . . *2-88*
1-297-010013-12 . . . . . *2-62*
1-297-010013-16 . . . . . *2-37*
1-297-010015-02 . . . . . *2-50*, *2-68*, *2-102*
1-297-010015-03 . . . . . *2-50*, *2-106*
1-297-010017-03 . . . . . *2-59*
1-297-010018-03 . . . . . *2-62*, *2-88*, *2-94*
1-297-010018-04 . . . . . *2-37*, *2-48*, *2-148*
1-297-010019-05 . . . . . *2-68*, *2-72*, *2-88*, *2-94*, *2-106*
1-297-010020-02 . . . . . *2-68*, *2-71*, *2-88*, *2-105*
1-297-010021-05 . . . . . *2-62*
1-297-010022-02 . . . . *2-67*, *2-71*, *2-88*, *2-105*, *2-148*
1-297-010022-03 . . . . . *2-62*
1-297-010022-04 . . . . . *2-62*
1-297-010031-02 . . . . . *2-67*, *2-71*, *2-105*
1-297-010032-03 . . . . . *2-67*, *2-105*
1-297-010033-03 . . . . . *2-62*
1-297-010034-01 . . . . . *2-143*
1-298-010001-1 . . . . . *2-4*, *2-37*, *2-156*
13005 . . . . . *2-76*
130116 . . . . . *2-168*
13028 . . . . . *2-77*, *2-80*
130280 . . . . . *2-155*
130282 . . . . . *2-155*
130511 . . . . . *2-4*
130537 . . . . . *2-158*
130538 . . . . . *2-158*

130540 . . . . . *2-158*
130552 . . . . . *2-4*, *2-111*
130553 . . . . . *2-10*
130556 . . . . . *2-44*
130662 . . . . . *2-145*, *2-146*, *2-156*, *2-157*, *2-168*
130882 . . . . . *2-164*
130883 . . . . . *2-162*
130884 . . . . . *2-162*
130895 . . . . . *2-151*
130896 . . . . . *2-151*
131196 . . . . . *2-4*
131297 . . . . . *2-145*, *2-154*
131590 . . . . . *2-38*
1-316-010013 . . . . . *2-143*
131738 . . . . . *2-10*
131739 . . . . . *2-10*
131740 . . . . . *2-10*
131741 . . . . . *2-10*
131784 . . . . . *2-10*
131895 . . . . . *2-156*
132103 . . . . . *2-102*
132104 . . . . . *2-102*
132106 . . . . . *2-109*, *2-110*
132833 . . . . . *2-88*
132834 . . . . . *2-88*
133798 . . . . . *2-131*
133799 . . . . . *2-131*
133938 . . . . . *2-102*
133941 . . . . . *2-102*
134131 . . . . . *2-160*
134162 . . . . . *2-129*
13424 . . . . . *2-77*, *2-80*
1-343-010007 . . . . . *2-13*, *2-148*, *2-168*
134608 . . . . . *2-7*
134616 . . . . . *2-7*
134657 . . . . . *2-88*
13468 . . . . . *2-76*
135006 . . . . . *2-129*
135181 . . . . . *2-4*
135189 . . . . . *2-134*
135778 . . . . . *2-4*
135779 . . . . . *2-4*
136352 . . . . . *2-4*
136377 . . . . . *2-17*
136378 . . . . . *2-17*
136396 . . . . . *2-10*, *2-154*
136399 . . . . . *2-13*
136580 . . . . . *2-146*
136581 . . . . . *2-146*
136582 . . . . . *2-146*
13680 . . . . . *2-77*
136828 . . . . . *2-154*
136829 . . . . . *2-154*
136848 . . . . . *2-7*
136849 . . . . . *2-7*
137028 . . . . . *2-102*
137070 . . . . . *2-4*
137108 . . . . . *2-64*
137279 . . . . . *2-44*
137421 . . . . . *2-90*, *2-96*
137422 . . . . . *2-90*, *2-96*
137424 . . . . . *2-108*
137425 . . . . . *2-108*
137426 . . . . . *2-108*
137427 . . . . . *2-108*
137428 . . . . . *2-108*
137557 . . . . . *2-166*
137558 . . . . . *2-166*
137559 . . . . . *2-166*
137563 . . . . . *2-166*
137564 . . . . . *2-166*
137569 . . . . . *2-90*, *2-96*
137570 . . . . . *2-90*, *2-96*
137634 . . . . . *2-111*
137635 . . . . . *2-111*
137641 . . . . . *2-90*, *2-96*

137642 . . . . . *2-96*
137879 . . . . . *2-91*, *2-97*
137880 . . . . . *2-90*, *2-91*, *2-96*, *2-97*
137881 . . . . . *2-91*, *2-97*
137882 . . . . . *2-90*, *2-96*
137883 . . . . . *2-90*, *2-96*
137884 . . . . . *2-90*, *2-96*
137885 . . . . . *2-90*, *2-96*
137886 . . . . . *2-90*, *2-96*
137887 . . . . . *2-90*, *2-96*
137888 . . . . . *2-90*, *2-96*
137892 . . . . . *2-13*
137893 . . . . . *2-13*
137894 . . . . . *2-13*
137943 . . . . . *2-146*
137963 . . . . . *2-4*
137974 . . . . . *2-138*
137985 . . . . . *2-164*
137987 . . . . . *2-162*, *2-168*
137993 . . . . . *2-90*, *2-96*
137994 . . . . . *2-90*, *2-96*
138155 . . . . . *2-116*, *2-118*
138179 . . . . . *2-114*, *2-134*
1-382-010035-06 . . . . . *2-88*, *2-94*
138209 . . . . . *2-15*
13839 . . . . . *2-76*
1-384-010038024 . . . . . *2-59*
1-384-010038038 . . . . . *2-59*
1-384-010038056 . . . . . *2-59*
1-384-010038060 . . . . . *2-59*
1-384-010038076 . . . . . *2-59*
1-384-010038084 . . . . . *2-59*
13894 . . . . . *2-108*
139254 . . . . . *2-111*
139256 . . . . . *2-131*
139287 . . . . . *2-56*
1-394-010001 . . . . . *2-59*
1-394-010002 . . . . . *2-116*, *2-118*
139478 . . . . . *2-80*
139479 . . . . . *2-79*
139519 . . . . . *2-17*
139520 . . . . . *2-4*, *2-130*
139525 . . . . . *2-15*, *2-17*
139537 . . . . . *2-33*
139552 . . . . . *2-88*
139553 . . . . . *2-144*
139559 . . . . . *2-130*
1-397-010262028 . . . . . *2-118*
1-397-010262100 . . . . . *2-118*
1-397-010262-5 . . . . . *2-116*, *2-118*
1-397-010301024 . . . . . *2-21*
1-397-010301039 . . . . . *2-21*
1-397-010301048 . . . . . *2-21*
1-397-010301064 . . . . . *2-15*
1-397-010301100 . . . . . *2-31*
1-397-010301160 . . . . . *2-15*
1-397-010301170 . . . . . *2-66*, *2-74*
1-397-010301208 . . . . . *2-105*
1-397-010302018 . . . . . *2-114*, *2-134*
1-397-010302084 . . . . . *2-15*
1-397-010302172 . . . . . *2-66*, *2-74*
1-397-010302220 . . . . . *2-88*, *2-94*
1-397-010304018 . . . . . *2-144*
1-397-010304060 . . . . . *2-144*
1-397-010305190 . . . . . *2-15*
1-397-010306028 . . . . . *2-114*, *2-134*
1-397-010307296 . . . . . *2-114*
1-397-010307356 . . . . . *2-114*
1-397-010312032 . . . . . *2-144*
1-397-010372030 . . . . . *2-160*
139927 . . . . . *2-71*
139928 . . . . . *2-71*
139929 . . . . . *2-71*
140083 . . . . . *2-33*
140087 . . . . . *2-130*
140319 . . . . . *2-29*

140328 . . . . . *2-168*
140330 . . . . . *2-168*
140829 . . . . . *2-44*
140893 . . . . . *2-17*
141456 . . . . . *2-108*
141547 . . . . . *2-108*
141607 . . . . . *2-62*
141609 . . . . . *2-4*
141626 . . . . . *2-130*
141628 . . . . . *2-13*
141629 . . . . . *2-13*
141636 . . . . . *2-13*
141637 . . . . . *2-13*
141708 . . . . . *2-54*
142050 . . . . . *2-21*
142053 . . . . . *2-21*
142068 . . . . . *2-15*
142270 . . . . . *2-144*
142441 . . . . . *2-38*, *2-44*
142442 . . . . . *2-38*, *2-44*
142443 . . . . . *2-38*, *2-44*
142444 . . . . . *2-38*
142446 . . . . . *2-38*, *2-44*
142447 . . . . . *2-38*, *2-44*
142448 . . . . . *2-44*
142450 . . . . . *2-44*
142451 . . . . . *2-44*
142454 . . . . . *2-38*
142483 . . . . . *2-19*
142484 . . . . . *2-19*
142485 . . . . . *2-19*
142486 . . . . . *2-19*
142526 . . . . . *2-168*
142529 . . . . . *2-168*
142530 . . . . . *2-168*
142532 . . . . . *2-157*
142534 . . . . . *2-157*
142545 . . . . . *2-38*, *2-45*
142549 . . . . . *2-64*
142550 . . . . . *2-64*
142551 . . . . . *2-64*
142553 . . . . . *2-38*, *2-45*, *2-130*
142895 . . . . . *2-169*
143100 . . . . . *2-33*
143101 . . . . . *2-33*
143102 . . . . . *2-33*
143103 . . . . . *2-33*, *2-38*, *2-45*
143104 . . . . . *2-33*, *2-38*, *2-45*
143105 . . . . . *2-33*
143106 . . . . . *2-33*
143107 . . . . . *2-33*
143108 . . . . . *2-33*
143109 . . . . . *2-33*
143110 . . . . . *2-33*
143111 . . . . . *2-33*
143112 . . . . . *2-33*
143113 . . . . . *2-33*, *2-38*, *2-45*, *2-162*
143114 . . . . . *2-33*, *2-38*, *2-45*
143115 . . . . . *2-33*, *2-38*, *2-45*
143116 . . . . . *2-33*, *2-38*, *2-45*
143117 . . . . . *2-33*, *2-38*, *2-45*
143118 . . . . . *2-33*, *2-38*, *2-45*
143119 . . . . . *2-33*
143120 . . . . . *2-33*
143122 . . . . . *2-33*, *2-38*, *2-45*
143125 . . . . . *2-33*
143127 . . . . . *2-33*
143128 . . . . . *2-33*, *2-130*
143160 . . . . . *2-19*
143161 . . . . . *2-19*
143182 . . . . . *2-38*
143246 . . . . . *2-71*
143688 . . . . . *2-38*
144608 . . . . . *2-162*
144613 . . . . . *2-44*
144614 . . . . . *2-38*, *2-45*

144629 . . . . . *2-88*
144661 . . . . . *2-22*
144662 . . . . . *2-21*
144663 . . . . . *2-23*
144664 . . . . . *2-21*
144665 . . . . . *2-24*
144666 . . . . . *2-21*
144667 . . . . . *2-25*
144668 . . . . . *2-21*
144669 . . . . . *2-26*
144670 . . . . . *2-21*
144671 . . . . . *2-27*
144672 . . . . . *2-21*
144673 . . . . . *2-15*, *2-21*
144674 . . . . . *2-15*, *2-21*
144675 . . . . . *2-15*, *2-21*
144676 . . . . . *2-15*, *2-21*
144677 . . . . . *2-15*, *2-21*
144718 . . . . . *2-162*
144979 . . . . . *2-56*
145014 . . . . . *2-38*
145416 . . . . . *2-38*
145532 . . . . . *2-38*
146834 . . . . . *2-22*
146836 . . . . . *2-22*
146837 . . . . . *2-23*
146839 . . . . . *2-23*
146840 . . . . . *2-24*
146842 . . . . . *2-24*
146843 . . . . . *2-25*
146845 . . . . . *2-25*
146846 . . . . . *2-26*
146848 . . . . . *2-26*
146849 . . . . . *2-27*
146851 . . . . . *2-27*
146854 . . . . . *2-22*, *2-23*, *2-24*, *2-25*, *2-26*, *2-27*
146929 . . . . . *2-168*
146998 . . . . . *2-88*
147193 . . . . . *2-88*
147315 . . . . . *2-19*
147464 . . . . . *2-60*
148138 . . . . . *2-29*
148140 . . . . . *2-29*
149543 . . . . . *2-169*
15009 . . . . . *2-166*
1-510-010001 *2-4*, *2-15*, *2-33*, *2-37*, *2-44*, *2-59*, *2-66*, *2-74*, *2-114*, *2-116*, *2-118*, *2-134*, *2-149*
1-510-010003-09 . . . . . *2-21*
1-511-010001-07 . . . . . *2-102*
1-511-010001-14 . . . . . *2-37*
1-512-010003-02 . . . . . *2-68*, *2-71*, *2-105*
1-512-010004-03 . . . . . *2-68*, *2-71*, *2-144*
1-512-010005-01 . . *2-4*, *2-37*, *2-48*, *2-50*, *2-52*, *2-62*, *2-162*, *2-164*, *2-168*
1-512-010005-03 . . *2-4*, *2-114*, *2-134*, *2-160*, *2-162*, *2-168*
1-512-010005-05 . *2-7*, *2-31*, *2-59*, *2-67*, *2-74*, *2-131*, *2-143*, *2-151*, *2-157*, *2-160*
1-512-010005-09 . . . *2-4*, *2-7*, *2-31*, *2-37*, *2-67*, *2-71*, *2-74*, *2-82*, *2-88*, *2-94*, *2-102*, *2-105*, *2-112*, *2-116*, *2-118*, *2-143*, *2-145*, *2-147*, *2-152*, *2-156*, *2-168*
1-512-010005-13 *2-37*, *2-67*, *2-71*, *2-74*, *2-94*, *2-100*, *2-106*, *2-131*, *2-132*, *2-134*, *2-158*
1-512-010005-15 . . . . . *2-11*, *2-44*, *2-88*, *2-94*
1-512-010005-19 . . . . . *2-146*, *2-155*
1-512-010007-03 . . . . . *2-37*, *2-44*, *2-50*
1-512-010007-05 . *2-37*, *2-44*, *2-59*, *2-68*, *2-71*, *2-82*, *2-106*
1-512-010007-09 . . . . . *2-54*
1-512-010007-11 . . . . . *2-102*
1-512-010007-12 . . . . . *2-68*, *2-71*
1-533-010001 . . . . . *2-10*
153755 . . . . . *2-151*
154166 . . . . . *2-79*
1-557-010014 . . . . . *2-7*
1-557-010362-54 . . . . . *2-15*
1-557-010362-63 . . . . . *2-7*, *2-10*, *2-151*, *2-154*
1-560-010002-01 . . . . . *2-68*

1-560-010002-02 . . . . . ***2-37***, ***2-59***, ***2-148***
1-560-010002-03 . . . . . ***2-59***, ***2-144***
1-560-010002-04 . . . . . ***2-31***, ***2-59***, ***2-62***
1-560-010002-05 . . . . . ***2-31***, ***2-59***
1-560-010002-07 . . . . . ***2-31***
156528 . . . . . ***2-108***
156655 . . . . . ***2-56***
1-573-010476 . . . . . ***2-7***, ***2-129***
1-573-010477 . . . . . ***2-129***
1-573-010480 . . . . . ***2-7***, ***2-129***
1-573-010481 . . . . . ***2-129***
160094 . . . . . ***2-102***
161573 . . . . . ***2-102***
1-626-010002-03 . . . . . ***2-114***
1-626-010002-06 . . . . . ***2-114***, ***2-134***
1-630-010021-01 . . . . . ***2-15***
1-630-010021-02 . . . . . ***2-4***
163472 . . . . . ***2-79***
163502 . . . . . ***2-138***
1-647-010004177 . . . . . ***2-10***
1-647-010004225 . . . . . ***2-10***, ***2-13***
1-647-010004255 . . . . . ***2-4***, ***2-67***, ***2-71***, ***2-74***
1-654-010024014 . . . . . ***2-68***, ***2-71***, ***2-105***
1-654-010024055 . . . . . ***2-71***
1-654-010024079 . . . . . ***2-94***
1-654-010027-7 . . . . . ***2-62***
1-654-010032-4 . . . . . ***2-37***, ***2-44***
1-654-010036-05 . . . . . ***2-67***, ***2-71***, ***2-105***
1-654-010047-04 . . . ***2-48***, ***2-50***, ***2-52***, ***2-102***, ***2-166***
1-654-010047-06 . . . ***2-4***, ***2-59***, ***2-105***, ***2-143***, ***2-162***, ***2-168***
1-654-010047-07 . . . . . ***2-37***, ***2-164***
1-654-010049-03 . . . . . ***2-64***
1-654-010049-05 . . . . . ***2-4***, ***2-162***, ***2-168***
1-654-010049-11 . . . . . ***2-114***, ***2-134***, ***2-160***
1-654-010051-05 . . . ***2-4***, ***2-17***, ***2-114***, ***2-131***, ***2-134***
1-654-010051-06 ***2-7***, ***2-31***, ***2-67***, ***2-74***, ***2-143***, ***2-151***, ***2-157***
1-654-010051-07 . . . . . ***2-15***, ***2-37***, ***2-44***, ***2-111***
1-654-010051-08 . . . . . ***2-59***
1-654-010051-09 . . . . . ***2-15***, ***2-143***, ***2-160***
1-654-010051-10 . . . . . ***2-131***
1-654-010055-01 . . . . . ***2-68***, ***2-71***, ***2-82***, ***2-147***
1-654-010055-02 . . ***2-21***, ***2-102***, ***2-144***, ***2-146***, ***2-154***, ***2-168***
1-654-010055-03 ***2-7***, ***2-31***, ***2-37***, ***2-68***, ***2-112***, ***2-116***, ***2-118***, ***2-143***, ***2-152***
1-654-010055-04 ***2-31***, ***2-66***, ***2-71***, ***2-74***, ***2-105***, ***2-145***
1-654-010055-05 . . . . . ***2-71***
1-654-010055-07 . . . . . ***2-10***, ***2-74***
1-654-010055-09 . . . . . ***2-11***, ***2-144***, ***2-147***
1-654-010055-10 . . . . . ***2-146***
1-654-010055-11 . . . . . ***2-4***
1-654-010055-13 . . . . . ***2-7***, ***2-156***
1-654-010055-15 . . . . . ***2-147***
1-654-010055-16 . . . . . ***2-67***, ***2-74***
1-654-010055-17 . . . . . ***2-88***, ***2-94***, ***2-105***
1-654-010055-18 . . . . . ***2-147***
1-654-010059-01 . . . . . ***2-37***, ***2-116***, ***2-118***
1-654-010059-03 . . . . . ***2-131***, ***2-132***, ***2-134***
1-654-010059-05 . . . . . ***2-94***, ***2-132***, ***2-134***
1-654-010059-09 . . . . . ***2-100***
1-654-010059-11 . . . . . ***2-158***
1-654-010059-15 . . . . . ***2-67***, ***2-71***, ***2-74***
1-654-010059-21 . . . . . ***2-106***
1-654-010061-03 . . . . . ***2-21***
1-654-010061-05 . . . . . ***2-11***, ***2-94***
1-654-010061-07 . . . . . ***2-15***, ***2-88***
1-654-010065-15 . . . . . ***2-155***
1-654-010141-04 . . . . . ***2-67***, ***2-71***, ***2-105***
1-654-010147-06 . . . . . ***2-4***
1-654-010158-1 . . . . . ***2-37***, ***2-44***
1-656-010003051 . . . . . ***2-37***, ***2-44***, ***2-50***
1-656-010003053 . . . . . ***2-68***
165768 . . . . . ***2-121***
165769 . . . . . ***2-121***

166000 . . . . . *2-169*

166001 . . . . . *2-169*

166002 . . . . . *2-169*

166766 . . . . . *2-144*

166924 . . . . . *2-169*

167-0022 . . . . . *2-13*

167691 . . . . . *2-29*

167692 . . . *2-48*, *2-50*, *2-52*, *2-68*, *2-72*, *2-88*, *2-94*, *2-105*, *2-148*

169531 . . . . . *2-143*

169532 . . . . . *2-144*

170109 . . . . . *2-144*

170110 . . . . . *2-144*

170111 . . . . . *2-144*

170112 . . . . . *2-144*

171963 . . . . . *2-56*

171964 . . . . . *2-56*

172903 . . . . . *2-108*

1-765-010065 . . . . . *2-67*, *2-71*, *2-105*

176681 . . . . . *2-108*

1-796-010003-02 . . . . . *2-33*, *2-44*, *2-114*

1-796-010004-02 . . . . . *2-44*, *2-48*, *2-50*

179649 . . . . . *2-114*, *2-126*

179933 . . . . . *2-64*

18002 . . . . . *2-77*, *2-80*

18009 . . . . . *2-76*

18015 . . . . . *2-76*

18016 . . . . . *2-76*

18019 . . . . . *2-76*

18020 . . . . . *2-76*

18022 . . . . . *2-79*

18024 . . . . . *2-76*

18026 . . . . . *2-76*

18027 . . . . . *2-76*

18028 . . . . . *2-76*

18029 . . . . . *2-76*

18030 . . . . . *2-76*

18032 . . . . . *2-76*

18033 . . . . . *2-79*

18034 . . . . . *2-79*

18035 . . . . . *2-79*

18039 . . . . . *2-76*

18044 . . . . . *2-76*

18047 . . . . . *2-76*, *2-79*

18056 . . . . . *2-77*

180584 . . . . . *2-108*

180585 . . . . . *2-108*

180586 . . . . . *2-108*

18078 . . . . . *2-76*

1-833-010001 . . *2-48*, *2-50*, *2-67*, *2-88*, *2-94*, *2-102*, *2-105*

1-833-010002 . . . . . *2-48*, *2-50*, *2-59*, *2-62*, *2-148*

1-833-010003 . . . . . *2-59*, *2-62*

1-843-010014 . . . . . *2-37*, *2-44*, *2-64*

1-861-010032-01 . . . . . *2-68*, *2-71*, *2-105*

1-861-010032-03 . . . . . *2-94*

1-861-010032-06 . . . . . *2-4*, *2-68*, *2-106*, *2-168*

1-861-010032-07 . . . . . *2-37*, *2-59*, *2-164*

1-861-010032-08 . . . . . *2-4*

1-861-010032-09 . . . . . *2-114*, *2-134*, *2-162*, *2-168*

1-861-010032-10 . . . . . *2-17*, *2-67*, *2-71*, *2-74*, *2-105*

1-861-010032-11 . . . *2-4*, *2-7*, *2-15*, *2-38*, *2-44*, *2-59*, *2-111*, *2-114*, *2-131*, *2-134*, *2-143*, *2-151*, *2-157*

1-861-010032-14 . . . *2-68*, *2-71*, *2-82*, *2-105*, *2-116*, *2-118*

1-861-010032-15 . . *2-7*, *2-10*, *2-11*, *2-21*, *2-66*, *2-71*, *2-74*, *2-88*, *2-94*, *2-102*, *2-143*, *2-145*, *2-146*, *2-147*, *2-152*, *2-154*, *2-168*

1-861-010032-18 . . . . . *2-68*, *2-71*, *2-74*, *2-94*, *2-100*

1-861-010032-19 . . . . . *2-102*, *2-131*

1-861-010032-20 . . . . . *2-102*

1-861-010032-21 . . . . . *2-155*

1-861-010032-29 . . . . . *2-15*

1-861-010034-07 . . . . . *2-50*, *2-68*, *2-94*

1-861-010034-09 . . *2-4*, *2-38*, *2-59*, *2-68*, *2-71*, *2-82*, *2-102*, *2-106*, *2-143*

1-861-010034-10 . . . . . *2-64*

1-861-010034-11 . . . . . *2-7*, *2-17*, *2-111*

1-861-010034-13 . . . . *2-31*, *2-54*, *2-68*, *2-74*, *2-144*

1-861-010034-15 . . . . . *2-100*, *2-116*, *2-118*

1-861-010034-17 . . . . . *2-44*, *2-88*

1-861-010059-21 . . . . . *2-15*

1-879-010005 . . . . . *2-164*

1-879-010010 . . . . . *2-71*, *2-164*

189318 . . . . . *2-38*, *2-44*

189383 . . . . . *2-39*, *2-45*

19045 . . . . . *2-76*, *2-79*

190700ZP *2-39*, *2-45*

190701 . . . . . *2-39*, *2-45*

190705ZP *2-39*, *2-45*

190706 . . . . . *2-39*, *2-45*

1974 . . . . . *2-82*

1V0208 . . . . . *2-114*

1V0249 . . . . . *2-160*

200702210230 . . . . . *2-126*

200707010070 . . . . . *2-126*

200773800350 . . . . . *2-126*

2021-2-4 . . . . . *2-39*, *2-45*

2024-12-12S *2-31*, *2-143*

2024-12-8S *2-31*

2024-2-4S *2-39*, *2-45*

202702-10-8S *2-15*, *2-66*, *2-71*, *2-74*

202702-20-20S *2-143*

202702-6-4S *2-116*, *2-118*

202702-6-6S *2-114*, *2-134*

202702-8-8S *2-15*, *2-88*, *2-94*

203005-8-8S *2-114*, *2-134*

203102-12-12S *2-114*, *2-134*, *2-143*, *2-160*

2033-4-4S *2-118*

2033-8-8S *2-15*

2045-4-4S *2-45*

2047-12-12S *2-31*

206209-12-12S *2-143*

2062-10-12S *2-17*, *2-114*

2062-10-8S *2-15*, *2-67*, *2-71*, *2-74*

2062-12-12S *2-143*, *2-160*

2062-16-8S *2-31*

2062-6-4S *2-116*, *2-118*

2062-8-6S *2-114*, *2-134*

2062-8-8S *2-15*, *2-21*, *2-105*, *2-114*, *2-134*

20768510010 . . . . . *2-126*

20787400710 . . . . . *2-126*

2081-8-4S *2-39*

2081-8-6S *2-62*

2083-8-4S *2-48*, *2-50*, *2-148*

2088-6-6S *2-59*, *2-62*

2089-6-6S *2-59*

212367 . . . . . *2-108*

212369 . . . . . *2-108*

2-181-010001 *2-4*, *2-15*, *2-33*, *2-39*, *2-45*, *2-66*, *2-74*, *2-116*, *2-118*

21925 . . . . . *2-76*

2216-12-12S *2-153*

2240-12-12S *2-144*

2263 . . . . . *2-84*

2-272-010109 . . . . . *2-67*, *2-105*, *2-164*

22752 . . . . . *2-76*

23078 . . . . . *2-77*, *2-80*

23079 . . . . . *2-77*

23081 . . . . . *2-77*, *2-80*

23083 . . . . . *2-77*

23085 . . . . . *2-77*

23144 . . . . . *2-80*

23303 . . . . . *2-76*

23367 . . . . . *2-79*

23470 . . . . . *2-76*

2389 . . . . . *2-82*

239-3646-3 . . . . . *2-166*

239-3646-4 . . . . . *2-71*, *2-162*, *2-164*

239-3646-5 . . . . . *2-33*

239-3650-1 . . . . . *2-71*, *2-164*

239-9076-3 . . . . . *2-68*

2481X *2-143*

2-557-010006 . . . . . *2-10*

2-557-010426 . . . . . *2-158*
2-573-010335 . . . . . *2-129*
26331 . . . . . *2-33*
26976 . . . . . *2-79*
2-720-010002 . . . . . *2-5*
3/8P COUPL *2-144*
300092 . . . . . *2-121*
3-014-010255 . . . . . *2-68*, *2-71*
3-054-010101 . . . . . *2-7*
3067 . . . . . *2-64*
3-076-010015 . . . . . *2-39*
3-120-010124 . . . . . *2-143*
3-120-010445 . . . . . *2-67*, *2-71*, *2-88*, *2-105*
3-120-010461 . . . . . *2-31*
3-125-010464 . . . . . *2-67*, *2-74*, *2-157*
3-125-010465 . . . . . *2-67*, *2-71*
3-128-010025 . . . . . *2-148*
3-128-010032 . . . . . *2-164*
3-136-010001-01 . . . . . *2-67*, *2-71*, *2-105*
3-141-010008 . . . . . *2-7*
3-141-010121 . . . . . *2-7*
3-141-010155 . . . . . *2-7*
3-150-010005 . . . . . *2-106*
3-150-010186 . . . . . *2-67*, *2-71*, *2-82*
3-150-010196 . . . . . *2-67*, *2-71*, *2-74*
3-153-010016-XX *2-94*
3-155-010017-4 . . . . . *2-66*, *2-105*
3-155-010018-6 . . . . . *2-66*, *2-72*, *2-74*, *2-105*
3-156-010008 . . . . . *2-72*
3-162-010001 . . . . . *2-31*, *2-143*
3-174-010038 . . . . . *2-67*, *2-72*, *2-74*, *2-105*
3-174-010039036 . . . . . *2-67*, *2-72*, *2-74*, *2-105*
3-174-010059 . . . . . *2-88*, *2-94*
3-174-010060036 . . . . . *2-88*, *2-94*
3-182-010028 . . . . . *2-143*
3-187-010013 . . . . . *2-39*
32002 . . . . . *2-168*
3-201-010001036 . . . . . *2-105*
3-201-010002 . . . . . *2-4*, *2-114*
3-222-010211 . . . . . *2-152*
3-222-010212 . . . . . *2-152*
3-242-010189 . . . . . *2-15*, *2-29*
3-242-010205 . . . . . *2-116*, *2-118*, *2-121*
3-272-010017 . . . . . *2-33*, *2-162*, *2-168*
3-272-010018 . . . . . *2-67*, *2-105*
3-272-010021 . . . . . *2-10*, *2-72*, *2-162*, *2-164*, *2-166*
3-272-010157 . . . . . *2-72*, *2-164*
3-316-010008 . . . . . *2-144*
3-348-010048 . . . . . *2-68*, *2-72*, *2-105*
3-360-010008 . . . . . *2-160*
3-360-010072 . . . . . *2-17*
3-360-010090 . . . . . *2-17*
3-368-010125 . . . . . *2-105*
3-368-010129 . . . . . *2-67*, *2-72*
3-368-010187 . . . . . *2-67*, *2-105*
3-368-010188 . . . . . *2-68*, *2-106*
3-368-010252 . . . . . *2-168*
3-368-010253 . . . . . *2-33*, *2-162*, *2-168*
3-384-010020 . . . . . *2-59*
3-399-010001 . . . . . *2-31*
3-399-010001006 . . . . . *2-144*
3-443-010018 . . . . . *2-144*
346SL *2-132*, *2-134*
3-481-010006 . . . . . *2-66*, *2-74*, *2-84*
3-481-010007 . . . . . *2-66*, *2-72*, *2-74*, *2-84*
3-482-010249 . . . . . *2-7*
3-482-010503 . . . . . *2-31*
3-485-010001 . . . . . *2-39*, *2-45*
3-522-010017 . . . . . *2-68*, *2-72*
3-557-010031 . . . . . *2-15*
3-557-010033 . . . . . *2-15*
3-557-010380 . . . . . *2-7*
3-557-010469 . . . . . *2-4*
3-557-010470-01 . . . . . *2-15*
3-557-010470-02 . . . . . *2-15*
3-557-010474 . . . . . *2-67*

3-561-010001 . . . . . *2-31*
3-565-011688 . . . . . *2-68*, *2-72*
3-573-010031 . . . . . *2-39*, *2-45*, *2-130*
3-573-010040 . . . . . *2-129*
3-573-010041 . . . . . *2-130*
3-573-010042 . . . . . *2-129*
3-573-010043 . . . . . *2-130*
3-573-010044 . . . . . *2-130*
3-573-010045 . . . . . *2-130*
3-573-010046 . . . . . *2-130*
3-573-010047 . . . . . *2-130*
3-573-010048 . . . . . *2-130*
3-573-010049 . . . . . *2-130*
3-573-010085 . . . . . *2-130*
3-573-010189 . . . . . *2-130*
3-573-010202 . . . . . *2-114*, *2-130*, *2-134*
3-573-010210 . . . . . *2-130*
3-573-010299 . . . . . *2-130*
3-573-010349 . . . . . *2-130*
3-573-010377 . . . . . *2-39*, *2-45*, *2-130*
3-573-010378 . . . . . *2-7*, *2-151*
3-573-010506 . . . . . *2-143*
3-591-010001 . . . . . *2-31*
3-612-010015-1 . . . . . *2-147*
3-612-010015-2 . . . . . *2-147*
3-612-010016 . . . . . *2-147*
3-626-010004 . . . . . *2-67*, *2-72*, *2-88*, *2-105*
3-642-010134 . . . . . *2-4*, *2-156*
3-642-010150 . . . . . *2-67*, *2-74*
3-645-010059 . . . . . *2-4*, *2-156*
3-645-010084 . . . . . *2-39*
3-659-010012 . . . . . *2-64*
3-711-010025 . . . . . *2-7*
3-711-010120 . . . . . *2-106*
3-720-010010 . . . . . *2-67*, *2-74*, *2-88*, *2-94*, *2-105*
3-720-010035 . . . . . *2-68*, *2-72*
3-720-010042 . . . . . *2-67*, *2-72*, *2-105*
3-725-010058 . . . . . *2-132*
3-755-010080 . . . . . *2-7*
3-755-010189 . . . . . *2-44*
3-755-010189-1 . . . . . *2-38*, *2-44*
3-762-010016 . . . . . *2-44*
3-762-010017 . . . . . *2-39*, *2-45*
3-765-010050 . . . . . *2-143*
3-780-010002 . . . . . *2-39*, *2-48*, *2-50*, *2-59*
3-786-010043 . . . . . *2-31*
3-793-010040 . . . . . *2-112*
3-793-010041 . . . . . *2-112*
3-821-010005 . . . . . *2-39*
3-829-010337 . . . . . *2-147*
3-831-010151 . . . . . *2-67*, *2-74*
3-831-010172 . . . . . *2-67*, *2-72*, *2-74*
3-831-010182 . . . . . *2-67*, *2-72*, *2-74*
3-843-010008 . . . . . *2-94*
3-843-010022 . . . . . *2-67*, *2-72*, *2-105*
3-843-010034 . . . . . *2-50*
3-843-010038 . . . . . *2-62*
3-843-010039-02 . . . . . *2-88*
3-846-010056 . . . . . *2-114*, *2-124*, *2-134*
3-846-010155 . . . . . *2-15*
3-870-010097 . . . . . *2-64*
3-870-010107 . . . . . *2-64*
3-873-010122 . . . . . *2-66*, *2-74*, *2-76*
3-873-010123 . . . . . *2-66*, *2-72*, *2-74*, *2-79*
3-873-010124 . . . . . *2-67*, *2-74*
3-873-010140 . . . . . *2-66*, *2-157*
3-873-010144 . . . . . *2-66*
3-873-010145 . . . . . *2-67*
3-873-010154 . . . . . *2-96*
3-873-010172 . . . . . *2-88*, *2-102*
3-873-010173 . . . . . *2-88*, *2-90*
3-876-010017 . . . . . *2-94*
4009 . . . . . *2-64*
4010520 . . . . . *2-124*
4010530 . . . . . *2-124*
5029 . . . . . *2-39*, *2-45*

514-9045-26 . . . . . *2-144*
514-9073-18 . . . . . *2-144*
516-22PTL *2-10*, *2-150*
5210 . . . . . *2-4*
55B61 . . . . . *2-59*, *2-62*, *2-88*
55B61-6 . . . . . *2-62*
55B61-7 . . . . . *2-62*
56D4 . . . . . *2-59*
60004 . . . . . *2-166*
60700 . . . . . *2-166*, *2-168*
61333 . . . . . *2-77*
622-3511-008 . . . . . *2-39*, *2-45*
63680 . . . . . *2-64*
6405000 . . . . . *2-124*
64181 . . . . . *2-168*
6-557-010163 . . . . . *2-7*, *2-10*, *2-151*, *2-154*
660580002 . . . . . *2-19*
660580003 . . . . . *2-19*
660580004 . . . . . *2-19*
660580005 . . . . . *2-19*
6828 . . . . . *2-31*
750-029 . . . . . *2-68*, *2-106*, *2-162*, *2-168*
758-181 . . . . . *2-59*
7HCGHT500 . . . . . *2-67*, *2-72*, *2-74*, *2-105*
805-2 . . . . . *2-59*
81006 . . . . . *2-76*
81009 . . . . . *2-76*
81025 . . . . . *2-76*
81077 . . . . . *2-79*
81078 . . . . . *2-79*
81080 . . . . . *2-79*
81081 . . . . . *2-79*
81530 . . . . . *2-76*
88005 . . . . . *2-80*
900 08 186 . . . . . *2-54*
900 45 040 . . . . . *2-54*
900 54 007 . . . . . *2-48*, *2-52*
900-08-139 . . . . . *2-54*
900-25-288 . . . . . *2-54*
900-54-079 . . . . . *2-50*
900598-12S *2-143*
90508009 . . . . . *2-54*
905-54-107 *2-48*, *2-50*, *2-52*, *2-68*, *2-72*, *2-88*, *2-94*, *2-105*, *2-148*
905-57-129 . . . . . *2-54*
934 00 149 . . . . . *2-54*
934 00 492 . . . . . *2-54*
934-00-506 . . . . . *2-54*
936 00 077 . . . . . *2-54*
94992 . . . . . *2-166*
95 . . . . . *2-160*

A

A6760S *2-148*
AA-1807 . . . . . *2-100*

B

B7-141-003 . . . . . *2-7*

C

C2001 . . . . . *2-82*
C3069X12 . . . . . *2-31*
CO-975-74-2000 . . . . . *2-10*

F

F-100852 . . . . . *2-68*

H

HM212011 . . . . . *2-64*
HM212049 . . . . . *2-64*
HM218210 . . . . . *2-64*
HM218248 . . . . . *2-64*

K

K71-101-00 . . . . . ***2-56***
K71-460-00 . . . . . ***2-56***

P

PMCK-22000 . . . . . ***2-29***
PTO ***2-31***

R

RTR7999X4ZP ***2-68***, ***2-72***

S

STP-147 . . . . . ***2-33***, ***2-162***, ***2-164***
STP-164 . . . . . ***2-33***, ***2-162***, ***2-164***

T

TR573 . . . . . ***2-64***

W

W214S-1 . . . . . ***2-162***, ***2-166***

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