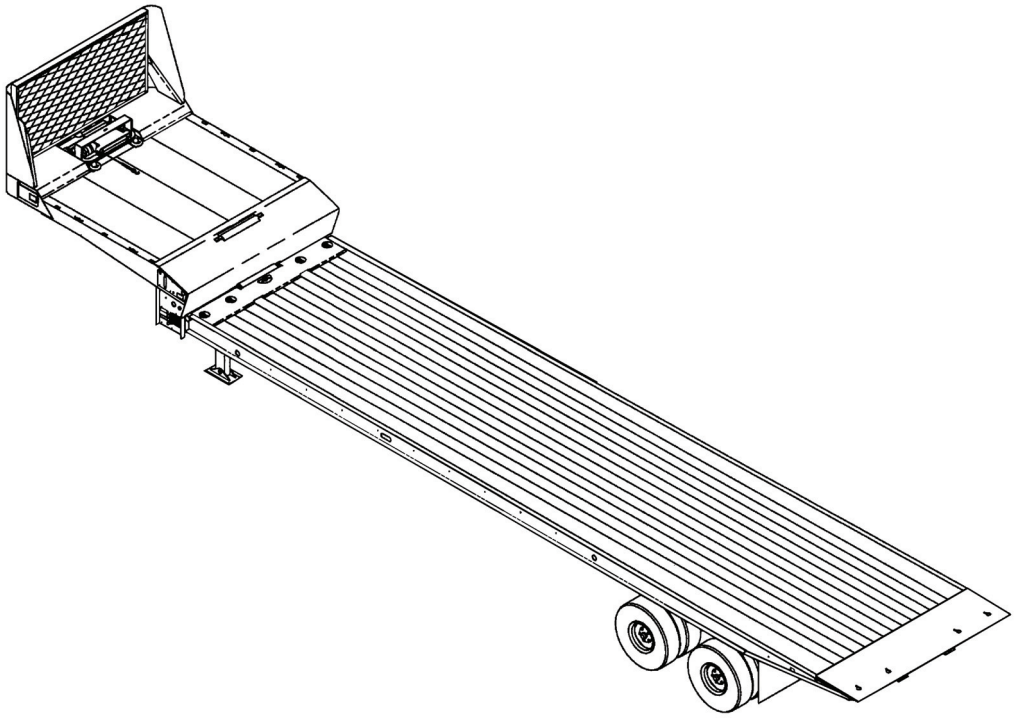
Model 600C
Semitrailer
Parts Manual



LANDOLL COMPANY, LLC.
1900 North Street
Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM

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
OUTRIGGER INSTALLATION (OPTION) 2-9
OUTRIGGER INSTALLATION 2-10
EXTENSION TRACK ASSEMBLY 2-11
PULL OUT EXTENSION INSTALLATION 2-13
HYDRAULIC SYSTEM 2-15
CYLINDER, HYDRAULIC 6 X 4 X 212 2-19
CYLINDER, HYDRAULIC 6 X 41 2-21
CYLINDER, HYDRAULIC 3-1/2 X 20 2-22
COUPLERS, FRONT SUB ASSEMBLY, AIR / HYDRAULIC 2-24
COUPLER KIT, HYDRAULIC, REPLACEMENT & REPAIR 2-25
WET KIT, TRACTOR HYDRAULIC (OPTION) (BEFORE 03/01/2019) 2-27
WET KIT, TRACTOR HYDRAULIC (OPTION) (AFTER 03/01/2019) 2-31
THREE SPOOL VALVE ASSEMBLY (Before 01/10/2008) 2-33
THREE SPOOL VALVE (BEFORE 01/10/2008) 2-35
THREE SPOOL VALVE ASSEMBLY (AFTER 01/10/2008) 2-37
VALVE, THREE SPOOL (AFTER 01/10/2008) 2-39
ELECTRICAL SYSTEM 2-41
UNDERCARRIAGE & GREASE SYSTEM, 2AX 2-44
UNDERCARRIAGE & GREASE SYSTEM, 3AX 2-48
BUMPER, REAR 2-51
E-CHAIN & E-CHAIN TRAY 2-53
MUD FLAPS 2-54
AIR RIDE SUSPENSION AIR SYSTEM (TANDEM) 2-57
AIR RIDE SUSPENSION AIR SYSTEM (TRIPLE) 2-59
AIR CONTROL KIT 2-61

AXLE SUSPENSION, RLU-228, 12.25 & 16.5 2-64
AXLE 12.25 x 7.5 DRUM BRAKES, DEXTER 2-67
AXLE 12.25 x 7.5 DRUM AND HUB ASSEMBLY, DEXTER 2-71
AXLE 16.5 x 7 DRUM BRAKES, DEXTER 2-73
AXLE 16.5 x 7 DRUM AND HUB ASSEMBLY, DEXTER 2-77
WHEELS 2-79
SPRING AIR BRAKE SYSTEM W/ ABS 2-83
ABS BRAKE KIT 2-85
AIR SYSTEM, ABS 2-87
WINCH INSTALLATION, BRADEN 12K / 20K (OPTION) 2-89
WINCH ASSEMBLY, BRADEN 12K / 20K (OPTION) 2-93
WINCH COMPONENTS, BRADEN 12K (OPTION) 2-96
WINCH COMPONENTS, BRADEN 20K (OPTION) 2-99
WINCH MOTOR ASSEMBLY, BRADEN 12K / 20K (OPTION) 2-102
WINCH AIR SHIFT CYLINDER 2-103
30K UPPER DECK WINCH INSTALLATION (DP) 2-106
30K WINCH COMPONENTS (DP). 2-109
WINCH ROLLER GUIDE - 30K 2-113
WINCH, CABLE AIR TENSION 2-115
12K, 15K, & 20K UPPER DECK WINCH (DP) 2-118
12K, 15K, & 20K WINCH COMPONENTS (DP PLANETARY) 2-121
TIE DOWN INSTALLATION (OPTION) 2-124
UPPER DECK COVER INSTALLATION (OPTION) 2-125
DOCK LEVELER ASSEMBLY, 60K (OPTION) 2-127
DOCK LEVELER HYDRAULIC INSTALLATION (OPTION) 2-129
DOCK LEVELER CYLINDER COMPONENTS 2-131
DOCK LEVELER SPOOL VALVE COMPONENTS 2-133
DECAL INSTALLATION 2-137
LANDING LEGS, GEAR, 2 SPD, PIN CRANK, FRT LOW MT BKT 2-138
LANDING LEGS, PINNED (OPTION) 2-139
LANDING LEGS, PINNED, HYDRAULIC LIFT (OPTION) 2-141
LANDING LEG COMPONENTS, GEAR, 2 SPD 2-143
25 HP ENGINE, 15 GALLON (OPTION) (BEFORE 03/09/2012) 2-149
25 HP ENGINE, 15 GALLON (OPTION) (AFTER 03/09/2012) 2-157
25 HP ENGINE, 30 GALLON (OPTION) (BEFORE 10/16/2012) 2-165
25 HP ENGINE, 30 GALLON (OPTION) (AFTER 10/16/2012) 2-173
ENGINE PACKAGE BRACKET KIT 2-177
UPPER DECK ENGINE STAND INSTALLATION 2-178
AIR DIGITAL SCALE (OPTION) 2-179
SCALE-O-MATIC INSTALLATION (OPTION) 2-180

SPARE TIRE CARRIER (OPTION) 2-181
AIR OUTLET ASSEMBLY (OPTION) 2-182
TOOLBOX, BOLT-ON, 42”W X 28”D X 9”H (OPTIONS) 2-185
REAR STROBE LIGHT INSTALLATION (OPTION) 2-187
TIRE INFLATION SYSTEM, PRESSURE GUARD (OPTION) (BEFORE 11/01/2009) 2-189
TIRE INFLATION SYSTEM, PRESSURE GURAD (OPTION) (11/01/2009 TO 03/08/2013) . . . 2-191
TIRE INFLATION SYSTEM, PRESSURE GUARD (OPTION) (AFTER 03/08/2013) 2-193

3 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 1-785-562-5381 FAX NO.: 888-527-3909
ORDER ONLINE: dealer.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 600C Series 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.

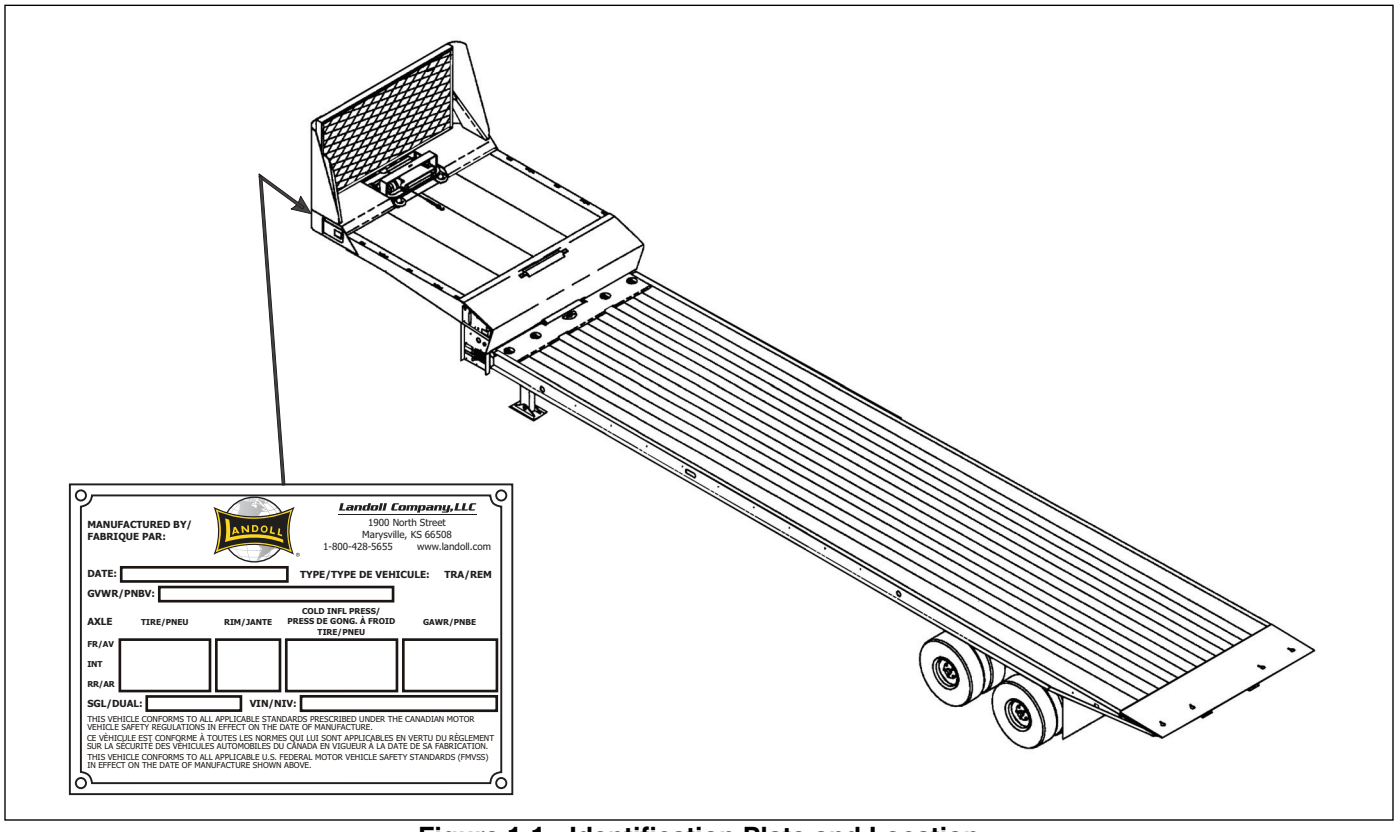


Figure 1-1: Identification Plate and Location

Page Intentionally Blank

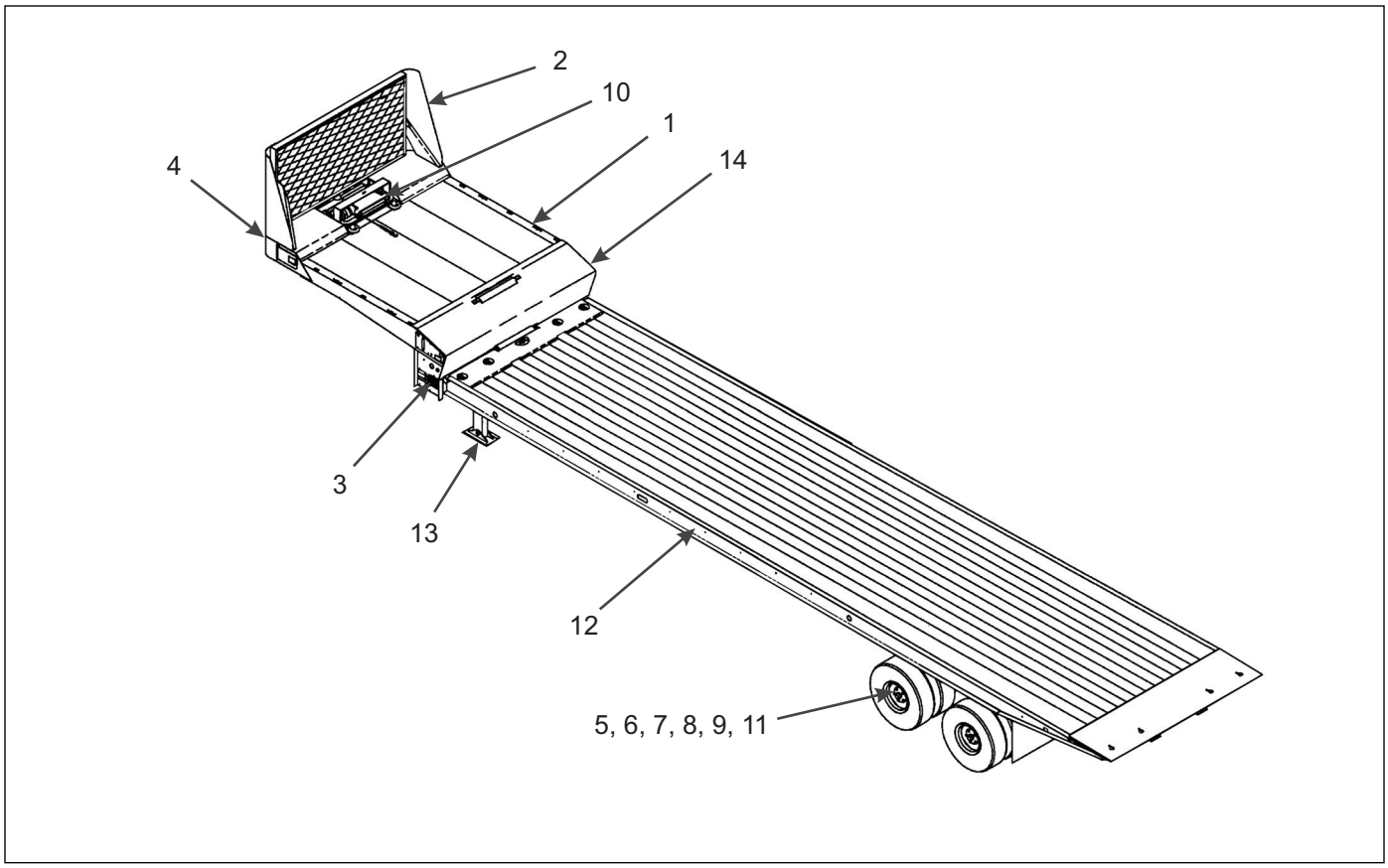


Figure 2-1: General Assembly

GENERAL ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
1	2-2 - 2-4	UPPER DECK ASSEMBLY	1
2	2-6 - 2-13	BULKHEAD/OUTRIGGER/EXTENSION/PULL OUT ASSEMBLIES (OPTION)	1
3	2-14 - 2-39	HYDRAULIC ASSEMBLIES	1
4	2-40 - 2-41	ELECTRICAL SYSTEM	1
5	2-44 - 2-64	UNDERCARRIAGE AND SUSPENSION - AIR RIDE	1
6	2-67 - 2-73	AXLE AND BRAKE ASSEMBLIES	2
7	2-71 - 2-79	HUB AND DRUM ASSEMBLY	1
8	2-80 - 2-85	AIR BRAKE SYSTEM	1
9	2-86 - 2-87	AIR SYSTEM	4
10	2-88 - 2-125	WINCH ASSEMBLIES	1
11	2-126 - 2-133	DOCK LEVELER ASSEMBLIES (OPTION)	1
12	2-134 - 2-137	DECAL INSTALLATION	1
13	2-138 - 2-143	LANDING GEAR ASSEMBLIES (OPTION)	2
14	2-144 - 2-178	ENGINE DRIVE ASSEMBLY (OPTION)	1
15	2-179 - 2-189	MISCELLANEOUS OPTIONS (NOT SHOWN)	1

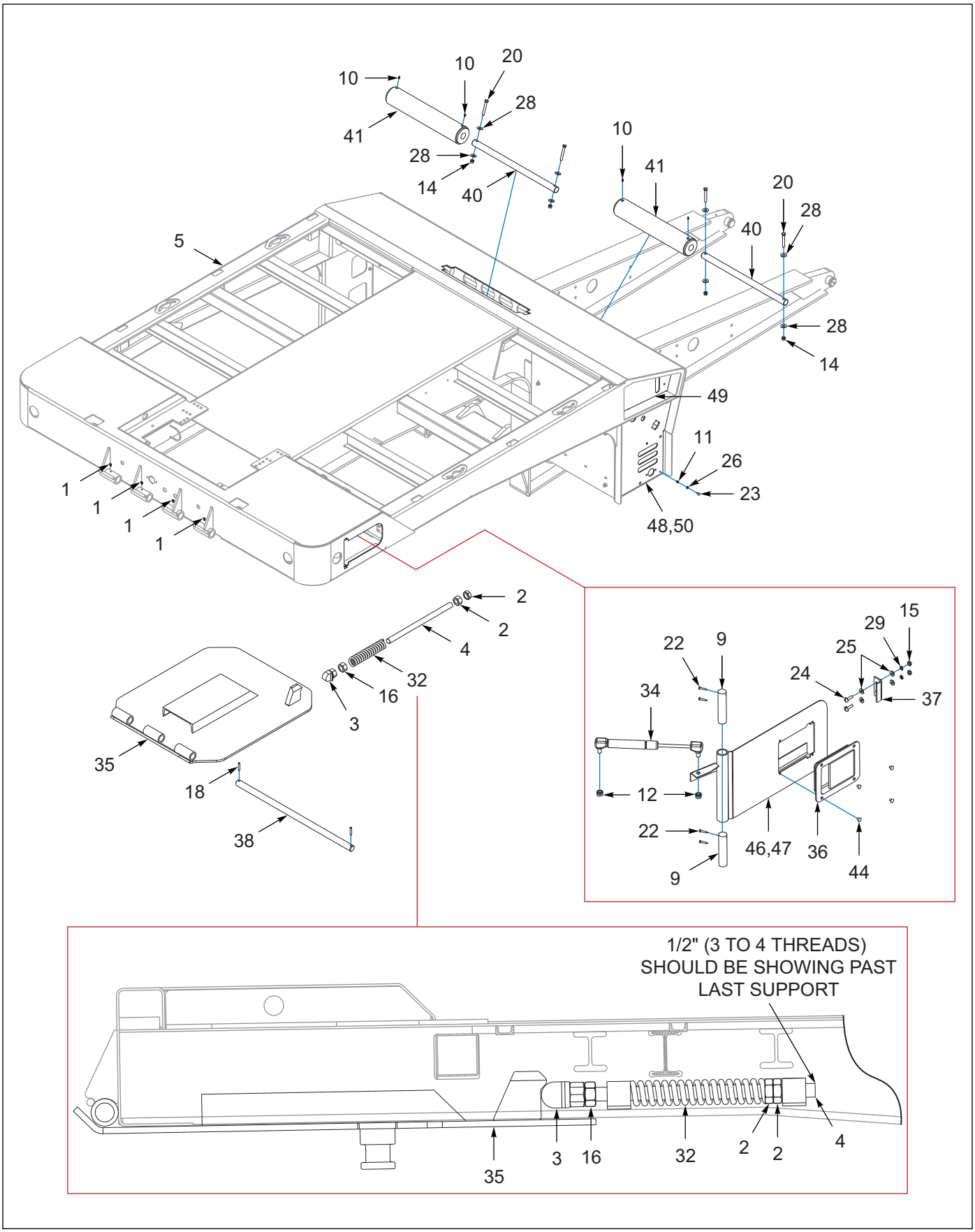


Figure 2-2: Upper Deck Assembly (1 of 2)

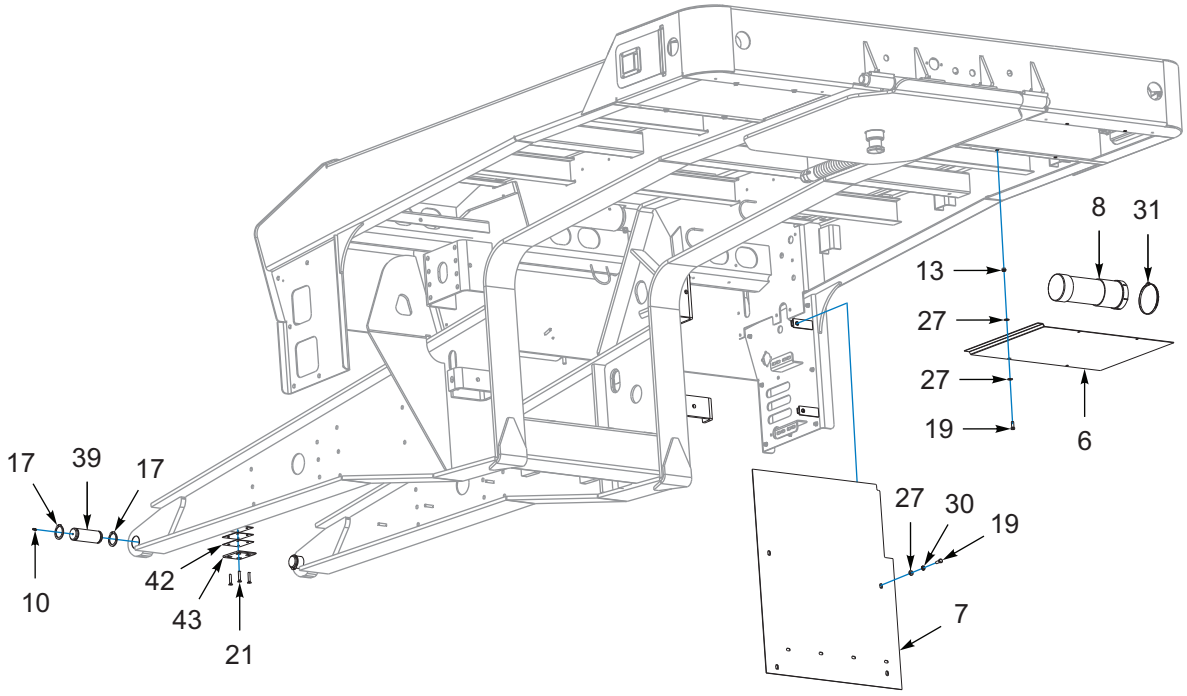


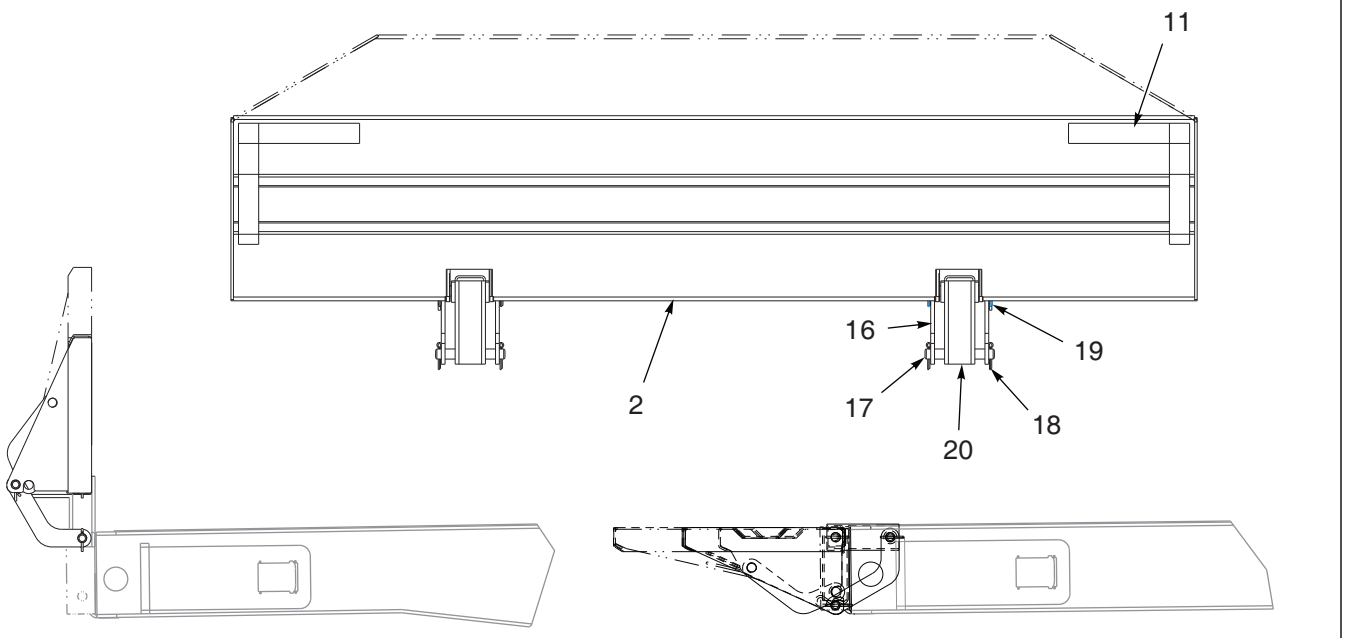
Figure 2-3: Upper Deck Assembly (2 of 2)

UPPER DECK ASSEMBLY

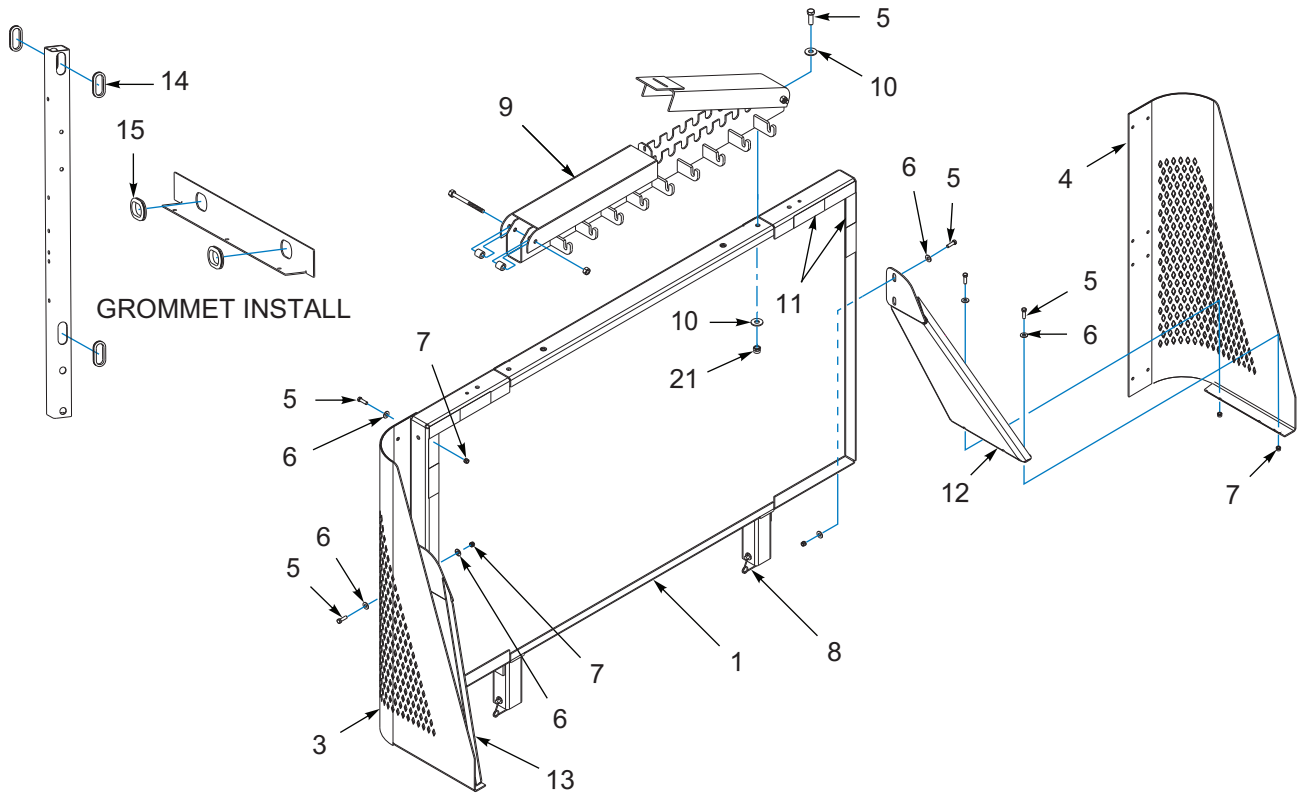
ITEM	PART NO.	DESCRIPTION	QTY.
	113519	FRAME ASSEMBLY, UPPER DECK	- -
1	5210	ZERK FITTING 1/4-28 X 45	6
2	100823	NUT HEX JAM 1-1/4-7 GRB	1
3	3-311-010164	CAM, FIFTH WHEEL LATCH	1
4	3-642-010006	LATCH ROD	1
5	111688	FRAME WELDMENT	1
6	111689	PLATE, TOOLBOX BOTTOM	2
7	111697	SHIELD, HYDRAULIC	1
8	130511	TUBE ASSEMBLY, MANUAL STORAGE	1
9	135181	BUSHING, NYLATRON	4
10	1-298-010001-1	ZERK FITTING 1/4	6
11	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	15
12	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB	4
13	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
14	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
15	1-512-010007-03	NUT HEX #10-24 GRB	4
16	1-512-010007-16	NUT, HEX 1-1/4-7 GRB	2
17	1-630-010021-02	RING, RETAINING 2 HD	4
18	1-647-010004255	PIN, SPRING SLOTTED 3/8 X 2	2
19	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	8
20	1-654-010055-11	SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5	4
21	1-654-010121-08	SCREW, HEX SOCKET CTSK 5/16-18 X 1-3/4	4
22	1-654-010147-06	SCREW, RD HEAD SELF TAPPING #6-20 X 3/4	8
23	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20 X 3/4 GR2	15
24	1-656-010003051	SCREW, RD HEAD MACH #10-24 X 3/4	4
25	1-861-010032-03	WASHER, FLAT #10	8
26	1-861-010032-06	WASHER, FLAT 1/4N	15
27	1-861-010032-10	WASHER, FLAT 3/8N	20
28	1-861-010032-15	WASHER, FLAT 1/2	8
29	1-861-010034-07	WASHER, SPLIT LOCK #10	14
30	1-861-010034-11	WASHER, LOCK 3/8	4
31	105-0094	HOSE CLAMP 4-1/8 - 5	1
32	2-720-010002	SPRING	1
33	3-201-010002	CONDUIT, PLASTIC FLEX 3/8 **(NOT SHOWN)**	10
34	3-242-010194	CYLINDER, GAS SPRING	2
35	3-375-010554	FIFTH WHEEL	1
36	3-443-010010	LATCH	2
37	3-482-010307	MOUNT, STRIKER PLATE	2
38	3-557-010469	HINGE PIN, FIFTH WHEEL	1
39	3-557-010471-01	PIVOT PIN	2
40	3-642-010134	ROD ROLLER **(27-11/16 INCH)**	2
41	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK **(24 INCH)**	2
42	3-684-010050	SHIM, REAR ROLLER	4
43	3-711-010105	SPACER, REAR ROLLER	1
44	BSL-6-4	RIVET	8
45	106218	LATCH ASSEMBLY, HITCH PLATE **(INCLUDES ITEMS 3 & 4)**	1
46	3-257-010038	DOOR WELDMENT, TOOL BOX, R.H.	1
47	3-257-010043	DOOR WELDMENT, TOOL BOX, L.H.	1
48	139521	PLACARD, CONTROL PANEL	1

UPPER DECK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
49	114485	PANEL TRIM UPPER	1
50	3-547-010011	PANEL, TRIM	1
51	1-557-010362-54	PIN, COTTER 3/16 X 2-1/4 **(NOT SHOWN)**	2



16/24 2-POSITION BULKHEAD



48" BULKHEAD W/ WINGS

Figure 2-4: Bulkhead Assembly (Option)

BULKHEAD ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-141-010150-1	BULKHEAD INST 102 STD-660 **(48" HIGH W/ STEEL WINGS) (ITEMS 1, 3-8, 11-15)**	- -
	3-141-010150-2	BULKHEAD INSTL,660-102/96 AL **(48" HIGH W/ ALUM WINGS) (ITEMS 1, 3-8, 11-15)**	- -
	145357	BULKHEAD INST 48 SOLID 102 **(ITEMS 1, 3-8, 11-15)**	- -
	B7-141-003	CHAIN RACK INST **(ITEMS 5, 9-11, 21)**	- -
	3-141-010123-2	BULKHEAD INSTL 16X102/2POSN **(16/24 POSITION) (ITEMS 2, 11, 16-20)**	- -
	3-141-010123-4	BULKHEAD INSTL 16X102/2POSN **(16 POSITION) (ITEMS 2, 11, 16-20)**	- -
1	3-141-010149	BULKHEAD WELDMENT 48 X 96	1
1	145356	BULKHEAD WELDMENT 48 X 96 SOLID	1
2	3-141-010147	BULKHEAD WELDMENT 16/24 X 102	1
2	3-141-010119	BULKHEAD WELDMENT 16 X 102	1
3	3-755-010207	SUPPORT, BULKHEAD STD 660-LH **(STEEL)**	1
3	3-755-010202	SUPPORT,BULKHEAD 660,LH **(ALUMINUM)**	1
4	3-755-010206	SUPPORT, BULKHEAD STD 660-RH **(STEEL)**	1
4	3-755-010201	SUPPORT,BULKHEAD 660 RH **(ALUMINUM)**	1
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	16
6	1-861-010032-11	WASHER, FLAT 3/8	20
7	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	16
8	9-557-010360	PIN, SNAP LOCK 1/2X3-1/2	2
9	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	1
10	1-861-010032-15	WASHER, SPLIT LOCK 3/8	4
11	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE	REF
12	3-117-010074	BRACE BULKHEAD RH	1
13	3-117-010075	BRACE BULKHEAD LH	1
14	234683	GROMMET, HOLE 2-2/2IN-1/4T **(MODEL DEPENDENT)** **(AFTER 09/15/2023)**	REF
15	143114	GROMMET, OVAL GROTE **(MODEL DEPENDENT)** **(BEFORE 09/15/2023)**	REF
15	234688	GROMMET, HOLE 3IN-3/16T **(MODEL DEPENDENT)** **(AFTER 09/15/2023)**	REF
16	3-755-010080	SUPPORT WELDMENT, BULKHEAD	2
17	3-557-010380	PIN	6
18	1-557-010362-63	COTTER PIN 1/4 X 2	10
19	1-557-010014	PIN, HAIR 1/4	2
20	3-482-010249	MOUNT WLDMT BULKHEAD	REF
21	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2

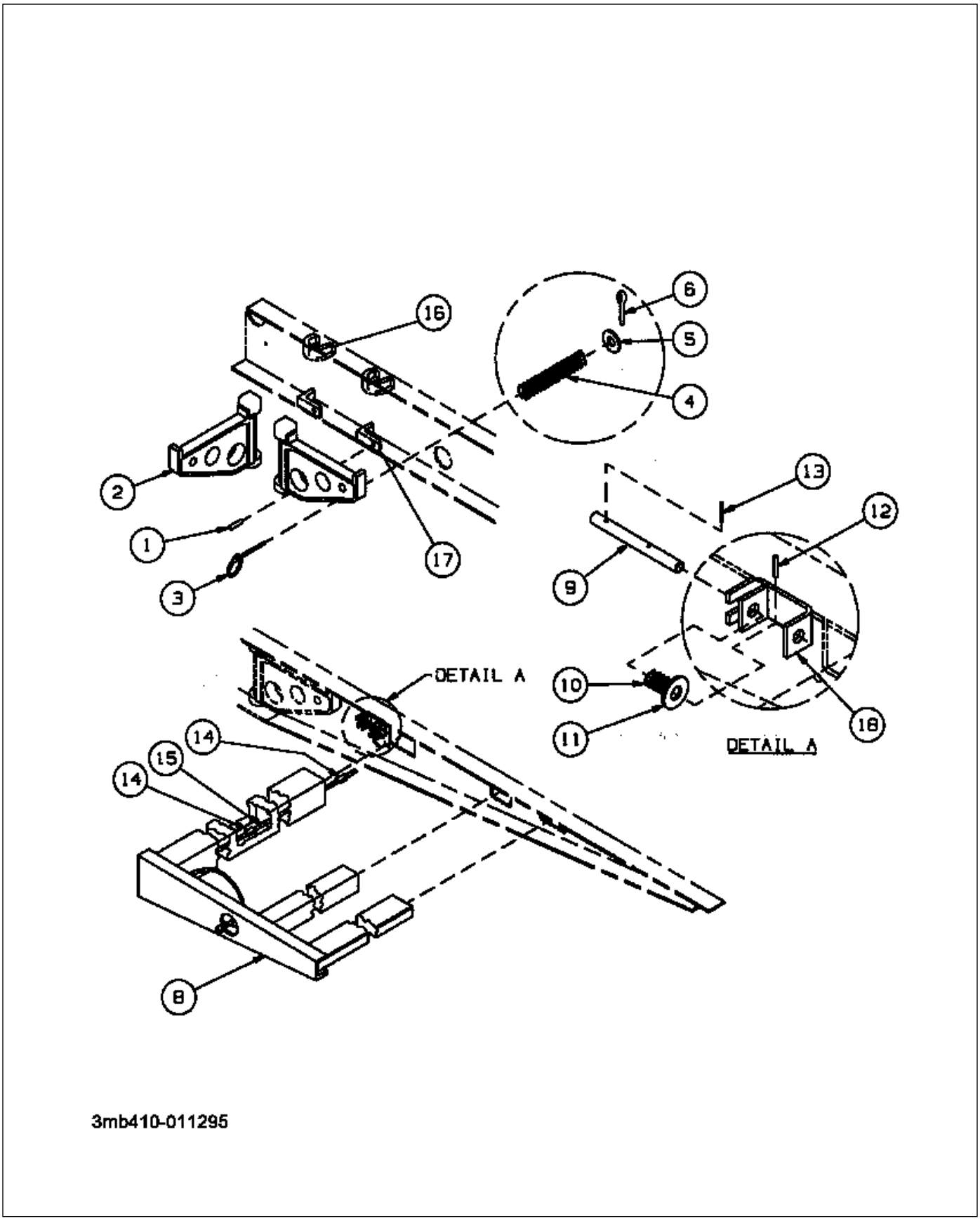


Figure 2-5: Outrigger Installation (Option)

OUTRIGGER INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.			
			48'	48'	50'	53'
	B7-542-007	OUTRIGGER, SWING-OUT 34 48	*			
	B7-542-012	OUTRIGGER, SWING-OUT 48		*		
	113459	OUTRIGGER INSTALLATION 50'			*	
	B7-542-009	OUTRIGGER, SWING-OUT 53				*
1	0600-375-01500	ROLL PIN, SLOTTED 3/8 X 1-1/2	34	46	50	54
2	167-0022	OUTRIGGER CAST FOR 10 CHANNEL	34	46	50	54
3	3-187-010001	CLIP OUTRIGGER STAY	34	46	50	54
4	3-720-010024	SPRING 1/16 DIA X 2-3/4 LG	34	46	50	54
5	1-861-010032-07	WASHER FLAT 1/4	34	46	50	54
6	101386	COTTER PIN	34	46	50	54
7	3-276-010698	EXTENSION,OUTRIGGER RH (NOT SHOWN)	1	1	1	1
8	3-276-010699	EXTENSION, OUTRIGGER LH	1	1	1	1
9	3-557-010375	PIN, SLIDE LOCK	2	2	2	2
10	CO-975-74-2000	SPRING, COMPRESSION	2	2	2	2
11	1-861-010032-15	WASHER, FLAT 1/2W	2	2	2	2
12	1-647-010004117	SPRING PIN SLOTTED 1/8 X 1	2	2	2	2
13	0600-250-03000	ROLL PIN 1/4 X 3	2	2	2	2
14	3-272-010021	ELECTRIC BUTT SPLICE 16-14 W/SEAL	4	4	4	4
15	W214S-1	CABLE, 2 WIRE 14 AWG PVC 105E JACKET	5	5	5	5
16	3-125-010482	BRACKET, MOUNT OUTRIGGER TOP	AR	AR	AR	AR
17	3-125-010501	BRACKET, MOUNT O/R BOTTOM RAIL STY.	AR	AR	AR	AR
18	3-125-010222	BRACKET, WELDMENT LOCK PULL OUT EXT.	AR	AR	AR	AR

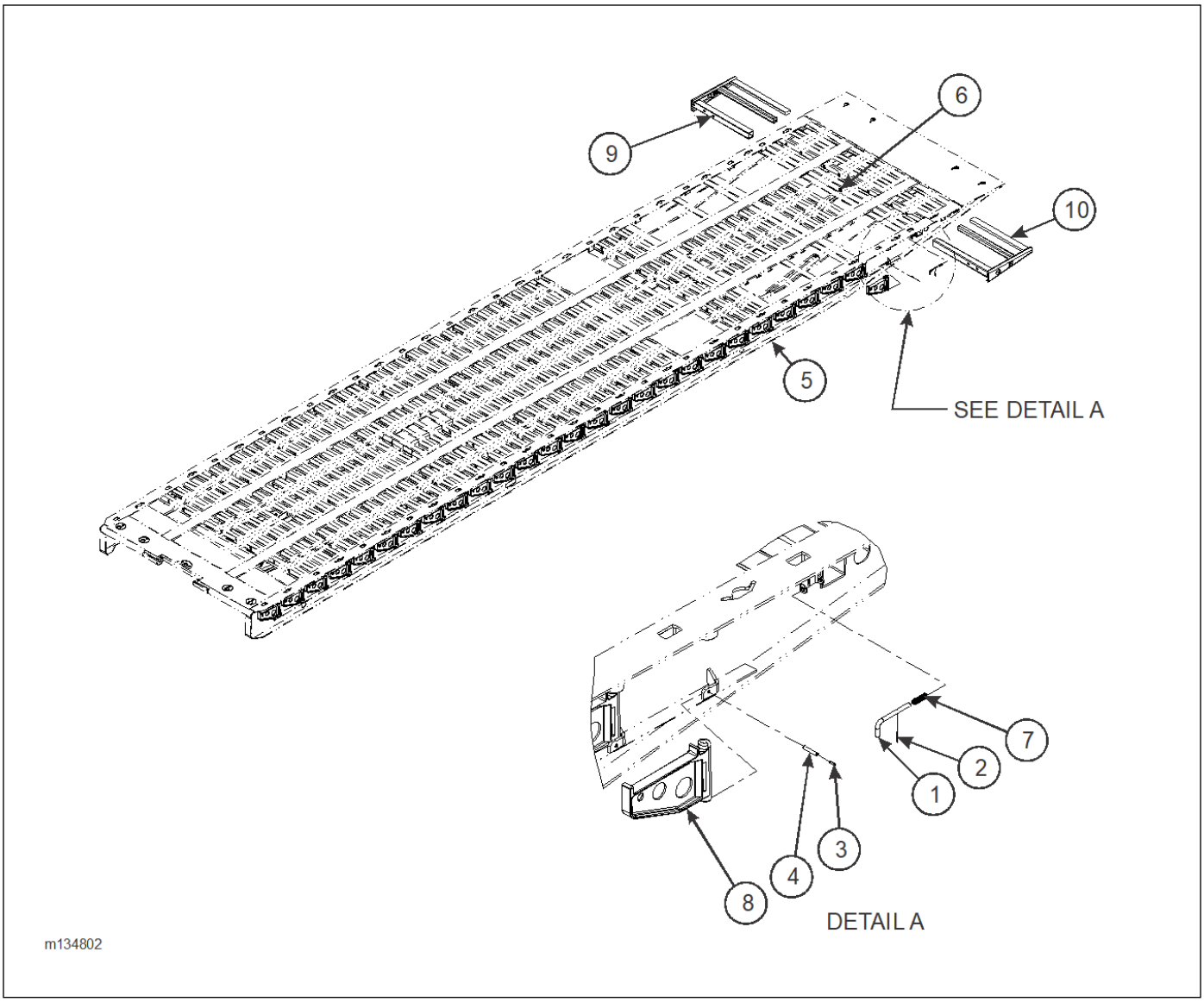


Figure 2-6: Outrigger Installation

OUTRIGGER INSTALLATION

ITEM	PAGE NO.	DESCRIPTION	QTY.
	134802	OUTRIGGER INSTALLATION 610-53 108"	- -
1	104252	PIN, P/O EXT LOCK	2
2	125520	ROLL PIN, SLOTTED 1/8 X 1-1/2	2
3	127711	ROLL PIN, SLOTTED 1/4 X 3/4	54
4	127712	ROLL PIN, SLOTTED 3/8 X 2-1/4	54
5	- - - - -	FRAME WELDMENT 108	REF
6	1-343-010007	GROMMET	2
7	104253	SPRING, COMPRESSION P/O EXT LOCK	2
8	167-0022	OUTRIGGER CAST FOR 10" CHANNEL	54
9	3-276-010698	EXTENSION, OUTRIGGER RH	REF
10	3-276-010699	EXTENSION, OUTRIGGER LH	REF

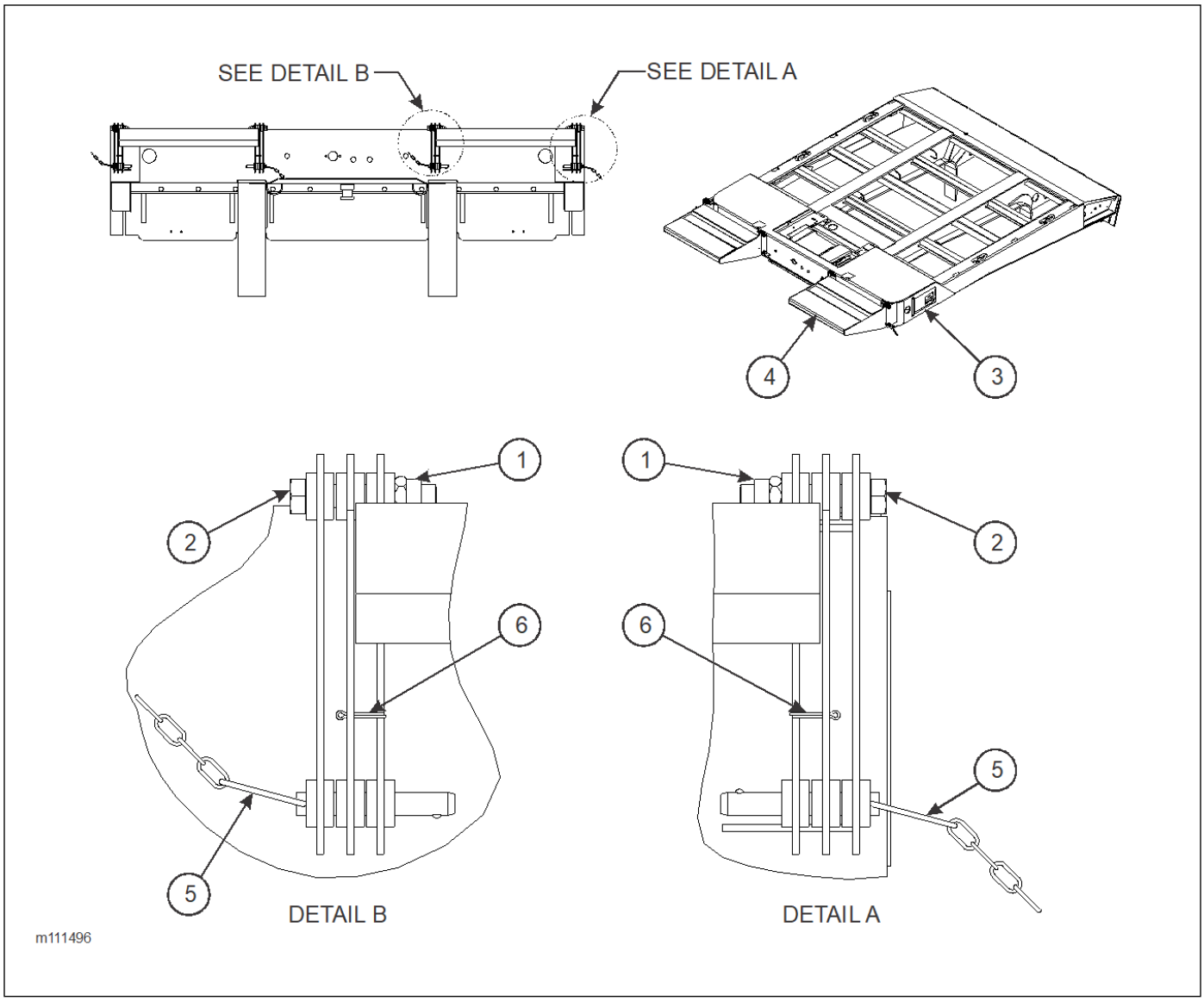


Figure 2-7: Extension Track Assembly

EXTENSION TRACK ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
	111496	EXTENSION TRACK ASSEMBLY	- -
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	111497	FRAME MOD FRONT FLIP BRACKETS	REF
4	111498	EXTENSION WELDMENT FRONT FLIP TRACK	2
5	2-557-010426	PIN, DETENT 5/8 W/ CHAIN	4
6	101386	PIN, COTTER 1/8 X 1	4

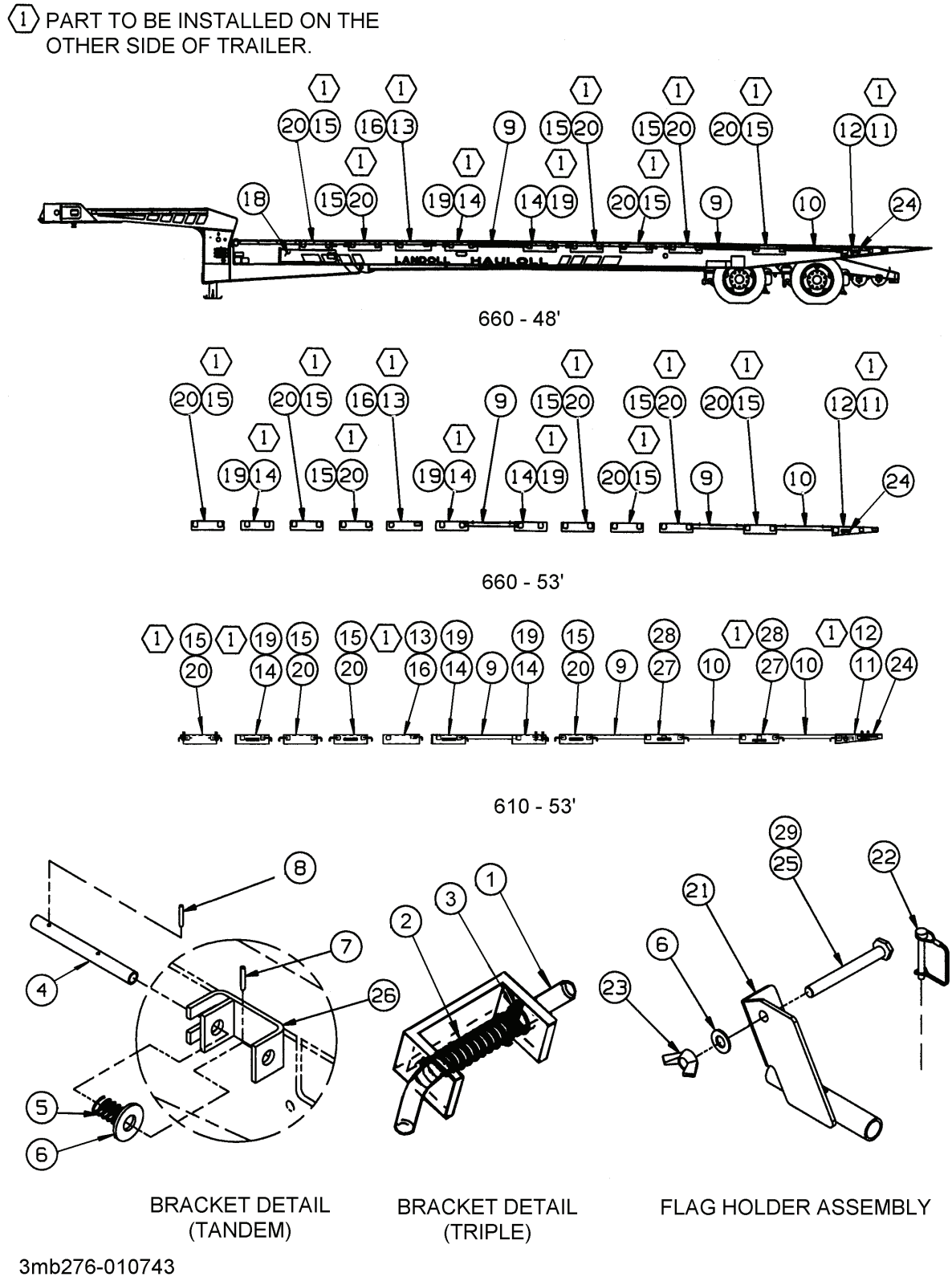


Figure 2-8: Pull Out Extension Installation

PULL OUT EXTENSION INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-276-010743-01	EXTENSION INST. 660-48 PULL-OUTS **(TANDEM)**	- -
	3-276-010743-03	EXTENSION INST. 660-53 PULL-OUTS **(TANDEM)**	- -
	105827	EXTENSION INST. 610-53 PULL-OUTS **(TRIPLE)**	- -
1	104252	PIN, P/O EXT LOCK **(TRIPLE)**	22
2	104253	SPRING, COMPRESSION P/O EXT LOCK **(TRIPLE)**	22
3	1-647-010004177	PIN, SPRING SLOTTED 3/16 X 1-1/2 **(TRIPLE)**	22
4	3-557-010375	PIN SLIDE LOCK **(TANDEM)**	*20,24
5	CO-975-74-2000	SPRING, COMPRESSION **(TANDEM)**	*20,24
6	1-861-010032-15	WASHER, FLAT 1/2W **(TANDEM)**	*26,30
7	1-647-010004117	PIN, SPRING SLOTTED 1/8X1 **(TANDEM)**	*20,24
8	0600-250-03000	ROLL PIN 1/4 X 3 **(TANDEM)**	*20,24
9	3-276-010741	EXTENSION COVER WHEEL WELL - 34	4
10	3-276-010742	EXTENSION COVER WHEEL WELL - 36-1/2	2
11	3-276-010746	EXTENSION REAR-P/O-RH	1
12	3-276-010747	EXTENSION REAR-P/O-LH	1
13	3-276-010740	EXTENSION 23" PULL-OUT RH **(TANDEM)**	1
	105944	EXTENSION 23-16 PULL-OUT RH **(TRIPLE)**	1
14	3-276-010737	EXTENSION 21-16 PULL-OUT LH	*2,3,3
15	3-276-010738	EXTENSION 21-16 PULL-OUT RH	*6,7,4
16	3-276-010739	EXTENSION 23" PULL-OUT LH **(TANDEM)**	1
	105943	EXTENSION 23-16 PULL-OUT LH **(TRIPLE)**	1
17	3-573-010377	DECAL 2" REFLEXITE TAPE RD/WHT **(NOT SHOWN)**	AR
18	B3-115-027	TOOL COMPARTMENT - LOWER DECK P/O	2
19	3-276-010744	EXT. 21-13 PULL-OUT RH	*2,3,3
20	3-276-010745	EXT. 21-16 PULL-OUT -LH	*6,7,4
21	101062	BRACKET FLAG HOLDER	6
22	516-22PTL	RETAINING PIN MUD FLAP **(120461,131131)**	6
23	1-533-010001	NUT, WING 1/2-13	6
24	101268	DECAL DANGER PLANK	*12,14,14
25	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	*6,6,4
26	3-125-010222	BRACKET, WELDMENT LOCK PULL OUT EXT.	AR
27	105945	EXT 25-10-3 PULL OUT LH **(TRIPLE)**	2
28	105946	EXT 25-10-3 PULLOUT RH **(TRIPLE)**	2
29	1-654-010055-11	SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5 **(TRIPLE)**	2
30	3-272-010021	ELECT BUTT SPLICE **(TRIPLE) (NOT SHOWN)**	24
31	W214S-1	CABLE, 2 WIRE **(TRIPLE) (NOT SHOWN)**	AR

*THE FIRST QUANTITY LISTED IS FOR THE 48’ TANDEM AXLE TRAILER, THE SECOND QUANTITY LISTED IS FOR THE 53’ TANDEM AXLE TRAILER; AND THE THIRD QUANTITY LISTED IS FOR THE 53’ TRIPLE AXLE TRAILER.

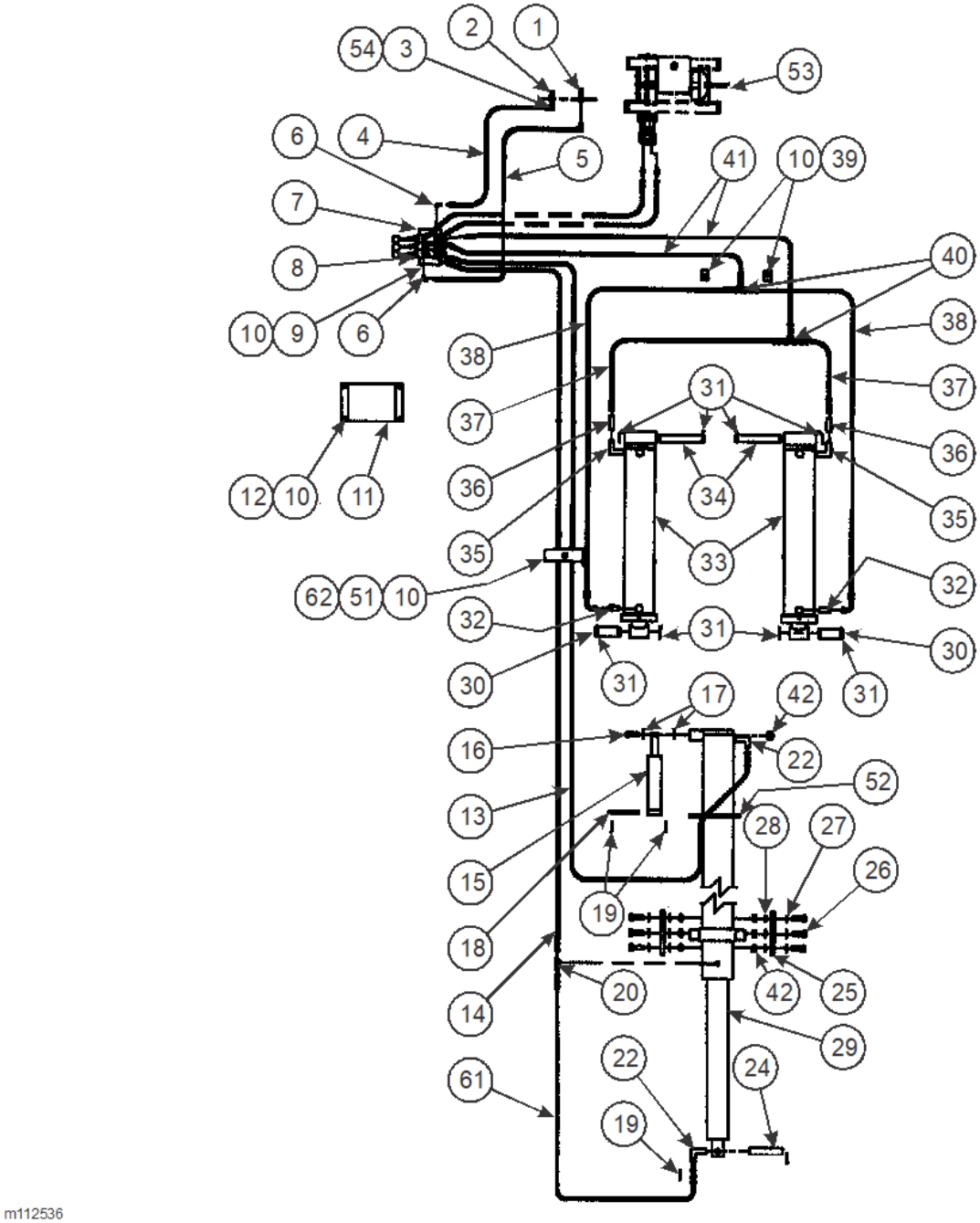


Figure 2-9: Hydraulic System

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022)**	- -
1	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
1	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022)**	1
1	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
2	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022 - SILVER BODY)**	- -
2	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
2	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022 - BLACK BODY)**	1
2	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
3	2240-12-12S	ADAPTER, BULKHEAD **(NOT USED W/ ENGINE PACKAGE)**	2
3	1-861-010059-21	WASHER, LOCK INTERNAL TOOTH 1-1/8”	2
4	1-397-010305164	HOSE ASSEMBLY 3/4 X 164 **(NOT USED WITH ENGINE PACKAGE)**	1
5	1-397-010305190	HOSE ASSEMBLY 3/4 X 190 **(NOT USED W/ ENGINE PACKAGE)**	1
6	2062-12-12S	ADAPTER, 90	2
7	139527	VALVE ASSEMBLY, 3 SPOOL **(PRIOR 01/10/2008) (SEE PAGE 2-33)**	1
7	148243	VALVE ASSEMBLY, 3 SPOOL **(AFTER 01/10/2008) (SEE PAGE 2-37)**	
8	2061-8-8S	ADAPTER, 45	6
9	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3
10	1-510-010001	NUT, HEX FLANGE LOCK 3/8-16	14
11	3-482-010563	MOUNT WELDMENT, VALVE	1
12	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
13	1-397-010301208	HOSE ASSEMBLY 1/2 X 208 **(48 TRAILER)**	1
13	1-397-010301268	HOSE ASSEMBLY 1/2 X 268 **(53 TRAILER)**	1
14	1-397-010301244	HOSE ASSEMBLY 1/2 X 244 **(48 TRAILER)**	1
14	1-397-010301304	HOSE ASSEMBLY 1/2 X 304 **(53 TRAILER)**	1
15	900-44-626	SHOCK ABSORBER AR-75-9	1
16	3/4-10X9-1/2CS8	SCREW, HEX HEAD CAP 3/4-10 X 9-1/2 GR8	1
17	143181	BUSHING, SHOCK MOUNT	2
18	3-557-010222	PIN	1
19	1-557-010362-54	PIN, COTTER	4
20	203003-8-8S	ADAPTER, TEE	1
22	2062-8-8S	ADAPTER	2
24	3-557-010120	PIN, U/C CYLINDER	1
25	3-120-010425	BRACKET	2
26	1-654-010061-06	SCREW, HEX HEAD CAP 3/4-10 X 2-1/4 GR5	6
27	3-861-010038	WASHER, STEP	6
28	1-861-010032-21	WASHER, FLAT 3/4	6
29	3-242-010211	CYLINDER 6 X 4 X 212 **(SEE PAGE 2-19)**	1
29	3-242-010212	CYLINDER WELDMENT 6 X 4 X 212	1
30	3-557-010470-02	PIN, CYL ROD END	2
31	1-630-010021-01	RING, SNAP	8
32	2021-12-8S	ADAPTER	2
33	3-242-010189	CYLINDER, LIFT 6X41 **(SEE PAGE 2-21)**	2
34	3-557-010470-01	PIN, CYL BUTT END	2
35	2024-12-8S	ADAPTER, 90	2
36	3-846-010155	VALVE, RESTRICTOR, 1/16-ONE WAY	2

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
37	1-397-010301028	HOSE ASSEMBLY 1/2 X 28	2
38	1-397-010302068	HOSE ASSEMBLY 1/2 X 68	2
39	2-181-010001	CLAMP, HOSE	4
40	2033-8-8S	ADAPTER TEE	2
41	1-397-010301076	HOSE ASSEMBLY	2
42	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	7
51	3-181-010006	CLAMP, HOSE LARGE	*10,12
52	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	AR
53	- - - - -	WINCH ASSEMBLIES **(SEE PAGES 2-89 - 2-121)**	REF.
54	105483	ADAPTER, BULKHEAD	2
55	105822	DECAL, HYD COUPLER **(BEFORE 03/01/2022 REQ 1) (AFTER 03/01/2022 NO LONGER USED)**	1
61	1-397-010369324	HOSE ASSEMBLY	REF
62	3-395-010001	HOSE, PROTECTION	AR

* THE 1ST QUANTITY LISTED IS FOR 48’ TRAILER; 2ND QUANTITY FOR 53’ TRAILER

Table provided for general use.

NOTES:

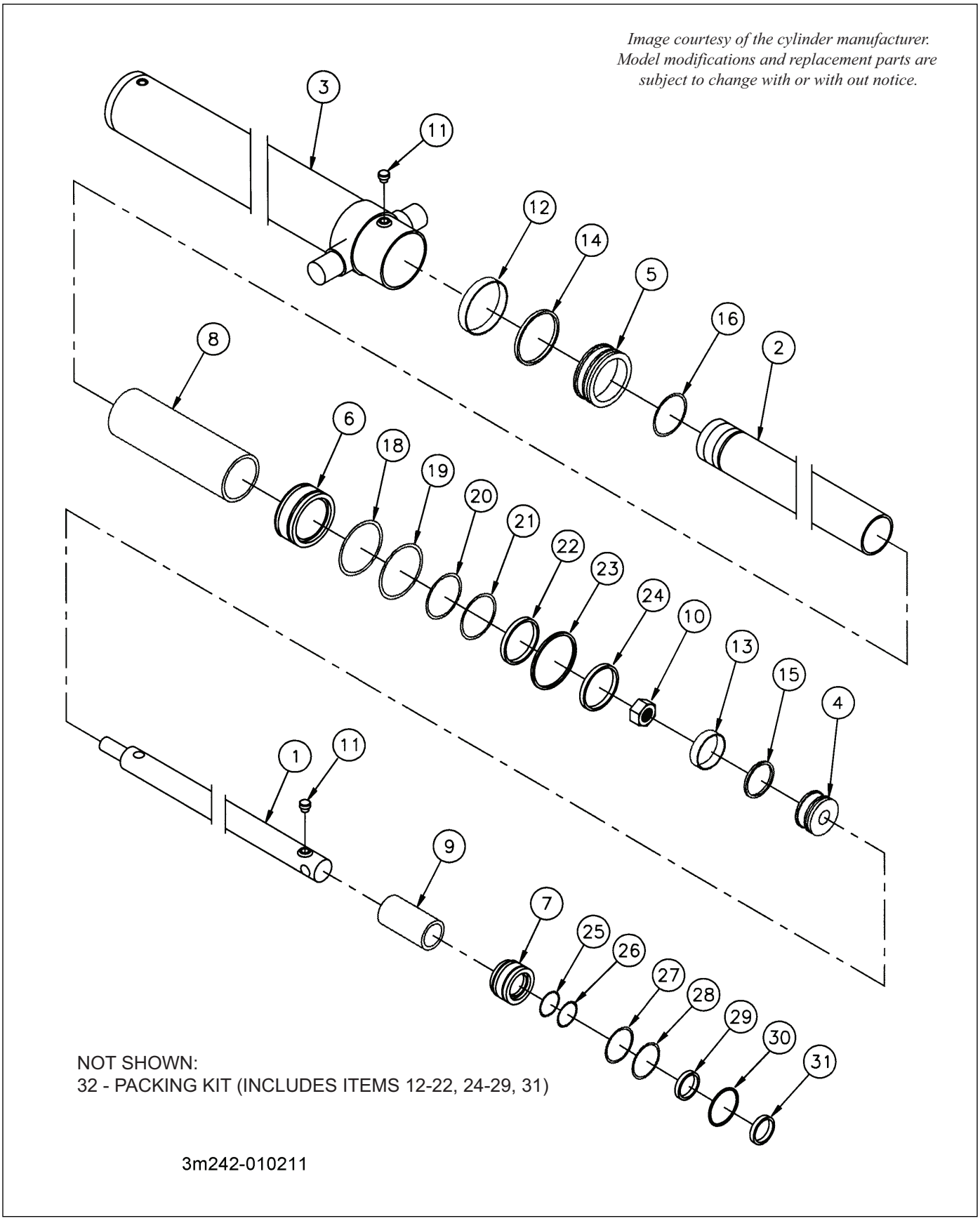


Figure 2-10: Cylinder, Hydraulic 6 x 4 x 212

CYLINDER, HYDRAULIC 6 X 4 X 212

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010211	CYLINDER 6 X 4 X 212-600 **(PRINCE AS-715)**	1
1	041300135	PISTON TUBE ASSEMBLY	1
2	042000229	PISTON TUBE ASSEMBLY **(PRIOR TO 08/2013)**	1
2	179003	PISTON TUBE ASSEMBLY **(AFTER 08/2013)**	1
3	- - - - -	BUTT AND TUBE ASSEMBLY	1
4	- - - - -	PISTON	1
5	- - - - -	PISTON	1
6	140026	GLAND	1
7	081900277	GLAND	1
8	- - - - -	SPACER	1
9	- - - - -	SPACER	1
10	- - - - -	LOCKNUT	1
11	- - - - -	PLUG	3
12	- - - - -	BEARING RING **(INCLUDED WITH ITEM 32)**	1
13	- - - - -	BEARING RING **(INCLUDED WITH ITEM 32)**	1
14	- - - - -	TEFLON SEAL **(INCLUDED WITH ITEM 32)**	1
15	- - - - -	TEFLON SEAL **(INCLUDED WITH ITEM 32)**	1
16	- - - - -	ROUND RING **(INCLUDED WITH ITEM 32)**	1
17	- - - - -	O-RING **(INCLUDED WITH ITEM 32)**	1
18	- - - - -	O-RING **(INCLUDED WITH ITEM 32)**	1
19	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 32)**	1
20	- - - - -	O-RING **(INCLUDED WITH ITEM 32)**	1
21	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 32)**	2
22	- - - - -	U-CUP **(INCLUDED WITH ITEM 32)**	1
23	- - - - -	SQ. RET. RING	1
24	- - - - -	WIPER **(INCLUDED WITH ITEM 32)**	1
25	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 32)**	2
26	- - - - -	O-RING **(INCLUDED WITH ITEM 32)**	1
27	- - - - -	O-RING **(INCLUDED WITH ITEM 32)**	1
28	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 32)**	1
29	- - - - -	U-CUP **(INCLUDED WITH ITEM 32)**	1
30	- - - - -	SQ. RET. RING	1
31	- - - - -	WIPER **(INCLUDED WITH ITEM 32)**	1
32	PMCK-AS-715	PACKING KIT **(INCLUDES ITEMS 12-22,24-29,& 31)(AS-715)**	

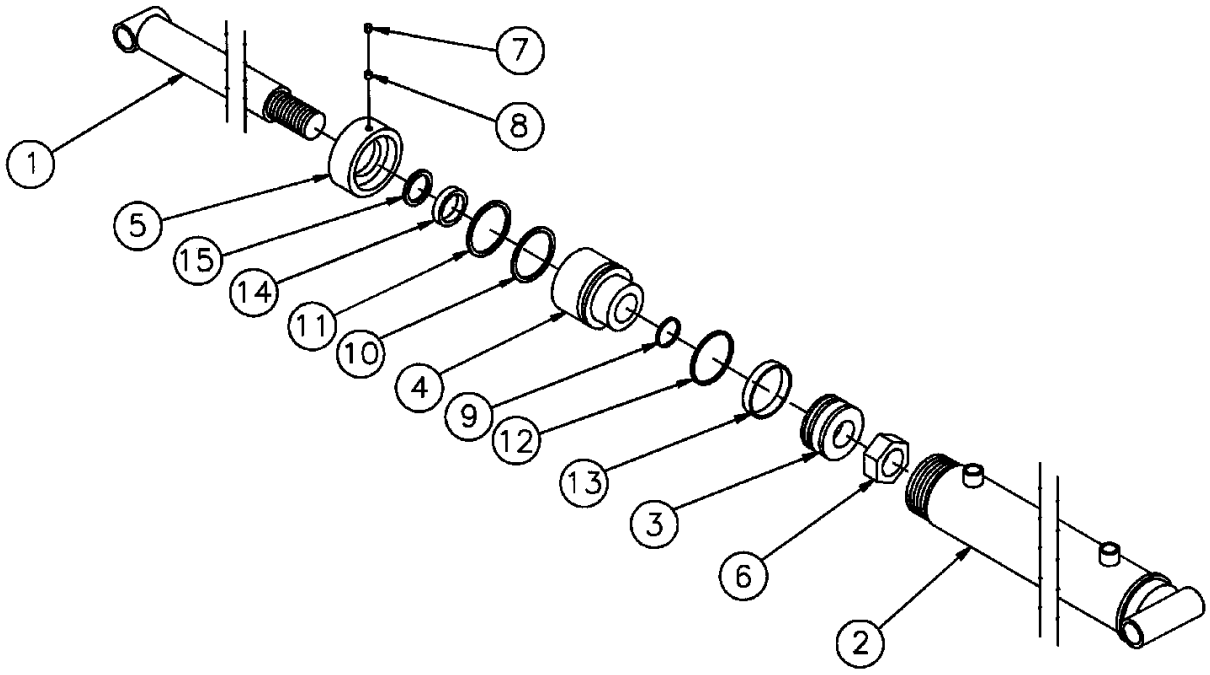


Figure 2-11: Cylinder, Hydraulic 6 X 41

CYLINDER, HYDRAULIC 6 X 41

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010189	CYLINDER HYDRAULIC 6" X 41" **(PRINCE PMC-22030)** **(BEFORE 05/30/2003, CYLINDER HAD 3/4 NPTF PORTS)** **(AFTER 05/30/2003, CYLINDER HAS 1/2 SAE O-RING PORTS)**	- -
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 **(INCLUDED WITH ITEM 16)**	1
10	- - - - -	O-RING **(INCLUDED WITH ITEM 16)**	1
11	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 16)**	1
12	- - - - -	CROWN SEAL **(INCLUDED WITH ITEM 16)**	1
13	- - - - -	BEARING RING **(INCLUDED WITH ITEM 16)**	1
14	- - - - -	U-CUP **(INCLUDED WITH ITEM 16)**	1
15	- - - - -	WIPER **(INCLUDED WITH ITEM 16)**	1
16	PMCK-22000	PACKING KIT **(INCLUDES ITEMS 9-15)**	

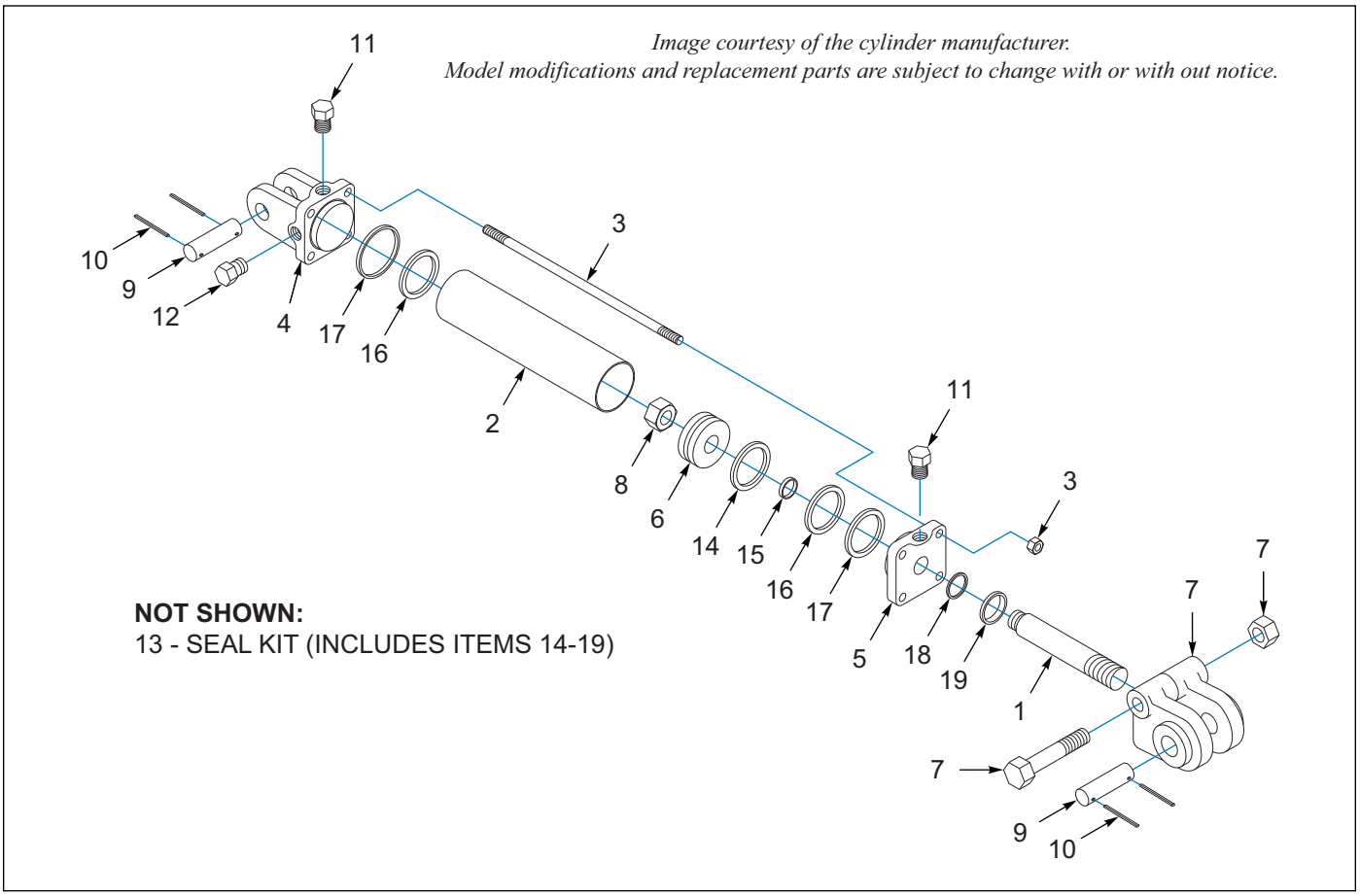


Figure 2-12: Cylinder, Hydraulic 3-1/2 X 20

CYLINDER, HYDRAULIC 3-1/2 X 20

ITEM	PART NO.	DESCRIPTION	QTY.
	1-242-010180-2	CYLINDER,HYD 3-1/2X20 3000PSI	1
1	010700437	PISTON ROD 3-1/2X20 SAE33520	1
2	- - - - -	TUBE	1
3	- - - - -	TIE ROD ASSY **(INCLUDES 1 TIE ROD & 1 NUT)**	4
4	141700023	ANCHOR GLAND	1
5	111870	GLAND 9800 #081700255	1
6	111866	PISTON 9800 #071700174	1
7	100000330	ASSY, CLEVIS **(INCLUDES 1 BOLT & 1 NUT)**	1
8	220000210	LOCK NUT 4X8 OR 4X24 PRINCE	1
9	190400004	CYLINDER PIN 4IN KIT **(INCLUDES 2 PINS & ITEM 10, 2 EACH)**	2
10	106120	COTTER PIN #220001504 **(INCLUDED WITH ITEM 19)**	4
11	- - - -	PLASTIC PLUG	2
12	20300040	PLUG O-RING 1-242-010120	1
13	1-242-010178-2	CYLINDER PKG KIT 3000 PSI3.5" **(INCLUDES ITEMS 14-19)**	1
14	- - - - -	CROWN SEAL **(INCLUDED WITH ITEM 13)**	1
15	- - - - -	O-RING **(INCLUDED WITH ITEM 13)**	1
16	- - - - -	O-RING **(INCLUDED WITH ITEM 13)**	2
17	- - - - -	BU-WASHER **(INCLUDED WITH ITEM 13)**	2
18	- - - - -	U-CUP **(INCLUDED WITH ITEM 13)**	1
19	- - - - -	WIPER **(INCLUDED WITH ITEM 13)**	1

Table provided for general use.

NOTES:

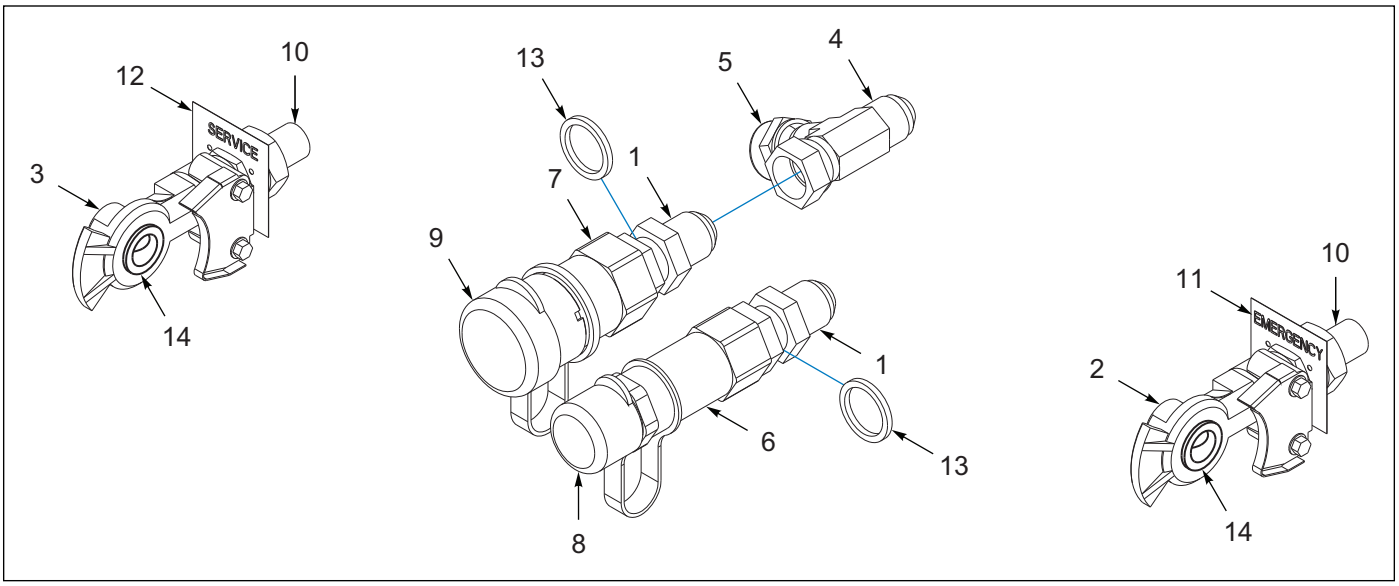


Figure 2-13: Couplers, Front Sub Assembly, Air / Hydraulic

COUPLERS, FRONT SUB ASSEMBLY, AIR / HYDRAULIC

ITEM	PART NO.	DESCRIPTION	QTY.
	143163	CONNECTORS FRONT SUB ASSY **(BEFORE 03/01/2022 - OBSOLETE ORDER 238642)**	- -
	238642	COUPLERS ISO FRONT SUB ASSY **(AFTER 03/01/2022 - REPLACES 143163)**	- -
1	105483	ADAPTER BLKHD 12JIC-12 ORING	2
2	108801	GLAD HAND-RED-AIR **(INCLUDES ITEM 14)**	1
3	108802	GLAD HAND-BLUE-AIR **(INCLUDES ITEM 14)**	1
4	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
5	210292-12S	JIC CAP NUT #12	1
6	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022 - SILVER BODY)**	- -
6	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25) (COUPLER KIT - SEE PAGE 2-25) (AFTER 03/01/2022 - BLACK BODY)**	1
7	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022)**	- -
7	239678	COUPLER FL FACE ISO -12 FEMALE **(COUPLER KIT - SEE PAGE 2-25) (AFTER 03/01/2022)**	1
8	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
8	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022) (COUPLER KIT - SEE PAGE 2-25)**	1
9	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
9	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022) (COUPLER KIT - SEE PAGE 2-25)**	1
10	55B61	FRAME UNION	2
11	55B61-6	TAG EMER LINE VELVAC 035025	1
12	55B61-7	TAG SERVICE LINE VELVC 035026	1
13	169365	SPACER HYDR COUPLERS **(BEFORE 02/01/2021) (AFTER HEX RETAINER WELDED TO FRAME)**	2
14	209133	GLAD HAND SEAL **(INCLUDED WITH ITEMS 2 & 3)**	1

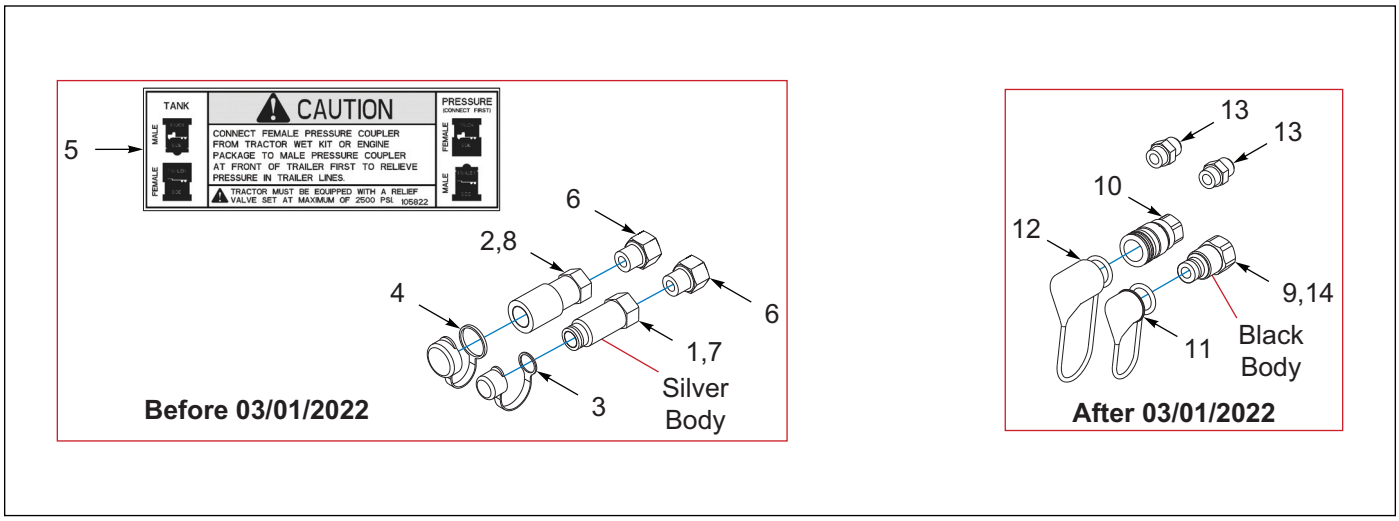


Figure 2-14: Coupler Kit, Hydraulic, Replacement & Repair

COUPLER KIT, HYDRAULIC, REPLACEMENT & REPAIR

ITEM	PART NO.	DESCRIPTION	QTY.
	105902	HYD COUPLER KIT, PARKER **(INCLUDES ITEM 1-6) (BEFORE 03/01/2022) (AFTER 03/01/2022 DISCONTINUED)**	- -
	239705	HYD COUPLER KIT ISO **(INCLUDES ITEM 9-13) (AFTER 03/01/2022 - REPLACES 105902) (REPLACEMENT COUPLERS FOR TRAILER, POWER UNIT, OR TRUCK)**	1
1	105479	COUPLER FLAT FACE MALE NOSE **(REPAIRABLE, SEE ITEM 7) (BEFORE 03/01/2022 -SILVER BODY)**	- -
2	105480	COUPLER FLAT FACE FEMALE BODY **(REPAIRABLE, SEE ITEM 8) (BEFORE 03/01/2022)**	- -
3	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
4	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
5	105822	DECAL, HYD COUPLER **(BEFORE 03/01/2022) (AFTER 03/01/2022 NO LONGER USED)**	1
6	2216-12-12S	ADAPT 3/4-14P/1-1/16 O-RING **(BEFORE 03/01/2022) (AFTER 03/01/2022 NO LONGER USED)**	2
7	111089	REPAIR KIT FOR 105479 **(BEFORE 03/01/2022) (INCLUDES SLIPPER SEAL, O-RING)**	1
8	111090	REPAIR KIT FOR 105480 **(BEFORE 03/01/2022) (INCLUDES VALVE ASSEM, SEALING SLEEVE, BACK-UP RING, O-RING)**	1
9	239677	COUPLER FL FACE ISO -12 MALE **(REPAIRABLE, SEE ITEM 14) (AFTER 03/01/2022- BLACK BODY) (INCLUDED WITH KIT 239705)**	1
10	239678	COUPLER FL FACE ISO -12 FEMALE **(NON-REPAIRABLE) (AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
11	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
12	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022) (INCLUDED WITH KIT 239705)**	1
13	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE **(INCLUDED WITH KIT 239705) (USED TO ADAPT ISO COUPLERS TO -12 FEMALE JIC END TRUCK HOSES)**	2
14	238634	KIT O-RING MALE ISO-12 QD **(INCLUDES BACK-UP RING, O-RING) (AFTER 03/01/2022 - NEW MALE KIT)**	1

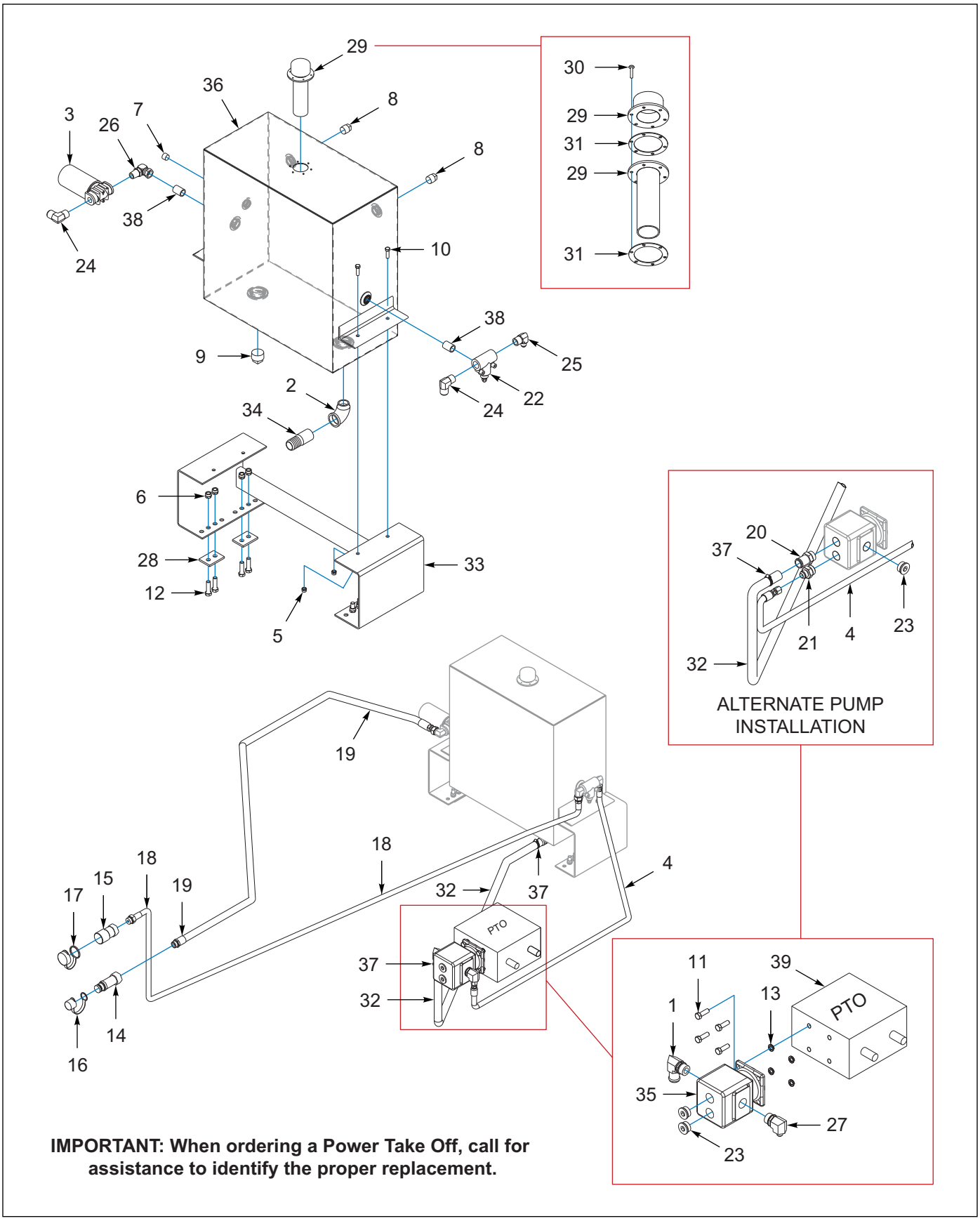


Figure 2-15: Wet Kit, Tractor Hydraulic (Option) (Before 03/01/2019)

WET KIT, TRACTOR HYDRAULIC (OPTION) (BEFORE 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	WET KIT,35GAL, W/PTO, INSTALL	- -
	107499	WET KIT,30GAL,W/PTO,NOT INST	- -
	107500	WET KIT 35GAL W/O PTO NOT INS	- -
1	1-007-010006	90 EL 1-5/16 O-RING-1-1/4 HOS	1
2	1-1/4ST ELL	PIPE ELBOW BLK 90 ST	1
3	1-295-010001	FILTER, RETURN LINE **(1-295-010002 FILTER ONLY)**	1
4	1-397-010301100	HOSE ASSY,1/2X100 SAE 37 STR	1
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
7	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
8	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	2
9	1-560-010002-07	PLUG,PIPE, 1-1/4X11-1/2NPTF	1
10	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
11	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
12	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
13	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
14	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022 - SILVER BODY)**	- -
14	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022 - BLACK BODY)**	1
15	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022)**	- -
15	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022)**	1
16	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
16	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
17	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
17	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
18	106759	HOSE 1/2X164,1-1/16O-RG 12FJI	1
19	106760	HOSE 3/4X164 1-1/16O-RG 12SAE	1
20	107513	ADAPTER #16 O-RING X 1-1/4HOS	1
21	12-16 070120	ADAPTER,#12 TUBE/ #16 O-RING	1
22	125130	RD12D HYD BY PASS SRDD	1
23	157330	PLUG,, #16 ORB HEX	2
24	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	2
25	2024-12-8S	ELBOW,90,#12NPTX#8 JIC	1
26	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	1
27	2062-16-8S	ADAPTER 90 1 BOSSX1/2 37	1
28	3-120-010461	BRACKET,HYD TANK SUPPORT	4
29	3-162-010001	FILLER BREATHER STRAINER ASSY **(INCLUDES ITEM 30-31)**	1
30	1-656-010003051	SCREW,RH HD MACH 10-24X3/4 **(INCLUDED WITH ITEM 29)**	6
31	223220	GASKET, HYD TANK FILLER **(INCLUDED WITH ITEM 29)**	2
32	3-399-010001	HOSE 1-1/4 SUCTION	8
33	3-482-010503	MOUNT WLDMT, HYD TANK 30GAL	1
34	3-561-010001	HOSE BARB 1-1/4 NPT	1
35	3-591-010001	HYDRAULIC GEAR PUMP **(USES SEAL KIT 3911802119)**	1
36	3-786-010043	TANK WLDMT, 30 GAL **(ITEM 29 SOLD SEPERATELY)**	1

WET KIT, TRACTOR HYDRAULIC (OPTION) (BEFORE 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
37	6828	IDEAL HOSE CLAMP2.25MAX-1.3MI	2
38	C3069X12	NIPPLE HYD 3/4 MPT	2
39	- - - - -	POWER TAKE OFF **(CALL FOR ASSISTANCE)**	1

Table provided for general use.

NOTES:

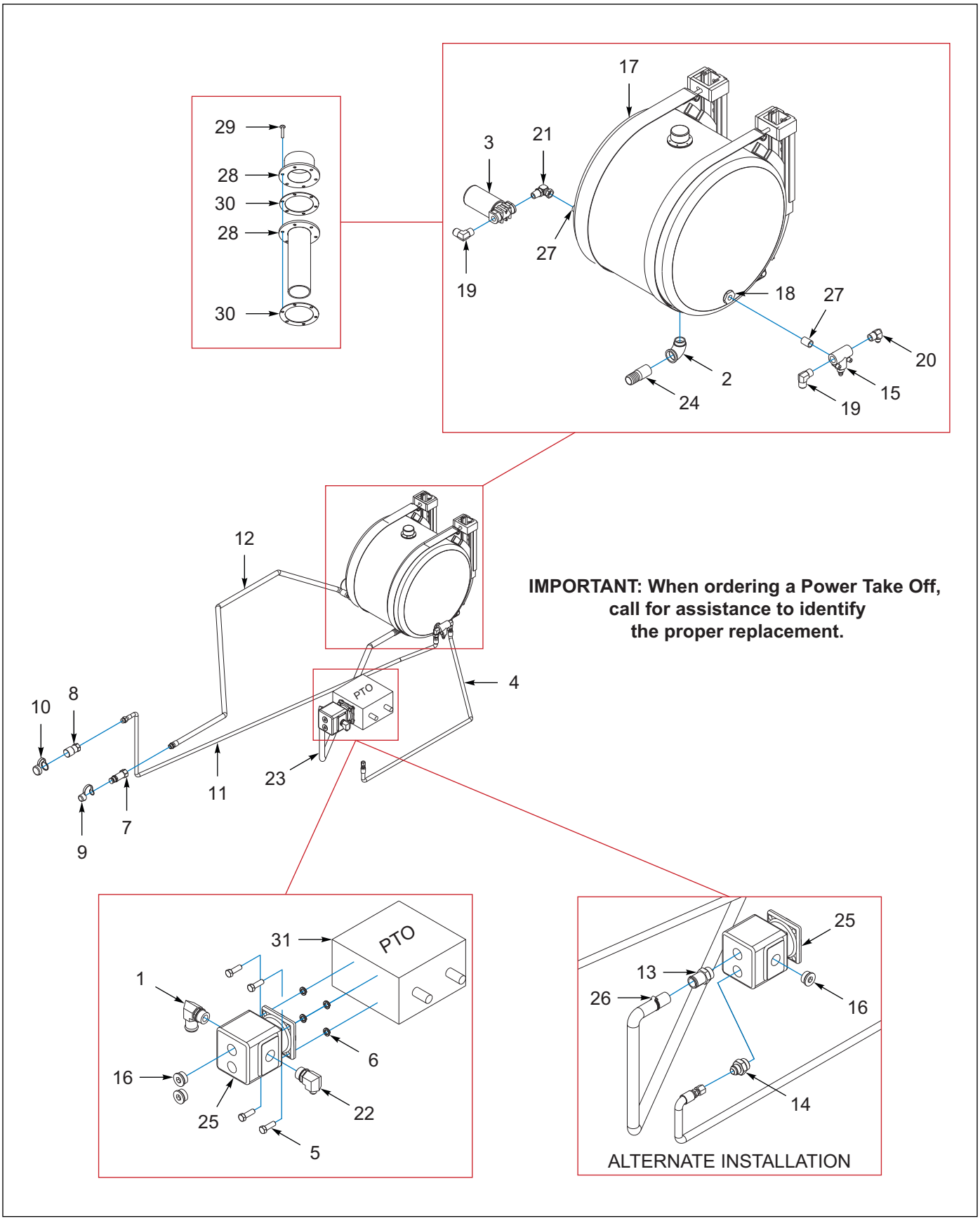


Figure 2-16: Wet Kit, Tractor Hydraulic (Option) (After 03/01/2019)

WET KIT, TRACTOR HYDRAULIC (OPTION) (AFTER 03/01/2019)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	WET KIT,35GAL, W/PTO, INSTALL **(STEEL TANK)**	- -
	107499	WET KIT,35GAL,W/PTO,NOT INST **(STEEL TANK)**	- -
	107500	WET KIT 35GAL W/O PTO NOT INS **(STEEL TANK)**	- -
	220732	WET KIT, ALUM, 35GAL **(ALUMINUM TANK)**	- -
	240507	WET KIT 35GAL ALUM W/PTO INSTL **(ALUMINUM TANK)**	--
1	1-007-010006	90 EL 1-5/16 O-RING-1-1/4 HOS	1
2	1-1/4ST ELL	PIPE ELBOW BLK 90 ST	1
3	1-295-010001	FILTER, RETURN LINE **(1-295-010002 FILTER ONLY)**	1
4	1-397-010301100	HOSE ASSY,1/2X100 SAE 37 STR	1
5	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
6	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
7	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022 - SILVER BODY)**	- -
7	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022 - BLACK BODY)**	1
8	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022)**	- -
8	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022)**	1
9	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
9	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
10	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
10	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
11	106759	HOSE 1/2X164,1-1/16O-RG 12FJI	1
12	106760	HOSE 3/4X164 1-1/16O-RG 12SAE	1
13	107513	ADAPTER #16 O-RING X 1-1/4HOS	1
14	12-16 070120	ADAPTER,#12 TUBE/ #16 O-RING	1
15	125130	RD12D HYD BY PASS SRDD	1
16	157330	PLUG,, #16 ORB HEX	2
17	168193	HYDRAULIC TANK 35GAL STD	1
18	20-12 140140	REDUCER STR #20PIPE X#12 PIPE **(STEEL TANK)**	2
18	166735	HYD TANK ALUM 35GAL POLISHED **(ALUMINUM TANK)**	
19	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	2
20	2024-12-8S	ELBOW,90,#12NPTX#8 JIC	1
21	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	1
22	2062-16-8S	ADAPTER 90 1 BOSSX1/2 37	1
23	3-399-010001	HOSE 1-1/4 SUCTION	8
24	3-561-010001	HOSE BARB 1-1/4 NPT	1
25	3-591-010001	HYDRAULIC GEAR PUMP	1
26	6828	IDEAL HOSE CLAMP2.25MAX-1.3MI	2
27	C3069X12	NIPPLE HYD 3/4 MPT	2
28	3-162-010001	FILLER BREATHER STRAINER ASSY **(INCLUDES ITEM 30-31)**	1
29	1-656-010003051	SCREW,RH HD MACH 10-24X3/4 **(INCLUDED WITH ITEM 29)**	6
30	223220	GASKET, HYD TANK FILLER **(INCLUDED WITH ITEM 29)**	2
31	- - - - -	POWER TAKE OFF (**CALL FOR ASSISTANCE)**	1

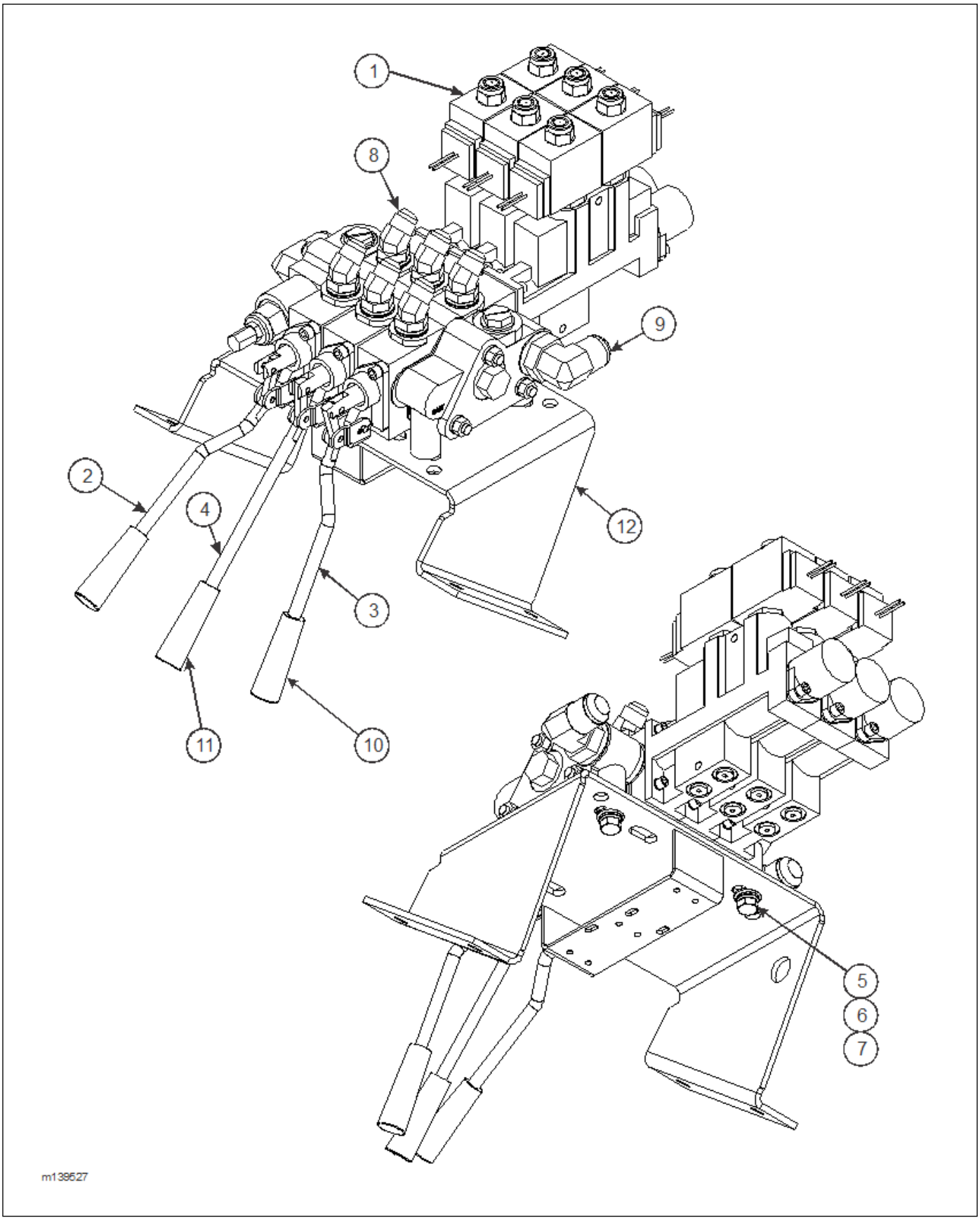


Figure 2-17: Three Spool Valve Assembly (Before 01/10/2008)

THREE SPOOL VALVE ASSEMBLY (Before 01/10/2008)

ITEM	PART NO.	DESCRIPTION	QTY.
	139527	VALVE ASSEMBLY, 3 SPOOL	- -
1	114540	VALVE, 3 STACK 2ND MOTOR SOL (SEE PAGE 2-35)	1
2	136377	VALVE HANDLE, RH	1
3	136378	VALVE HANDLE, LH	1
4	139519	VALVE HANDLE, CTR FORMED	1
5	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
6	1-861-010032-10	WASHER, FLAT 3/8N	3
7	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
8	2061-8-8S	ADAPTER 45	6
9	2062-10-12S	ADAPTER, 90	2
10	3-360-010072	HANDLE, PLASTIC	2
11	3-360-010090	HANDLE, PLASTIC RED	1
12	3-482-010563	VALVE MOUNT WELDMENT, HYDRAULIC/PNEUMATIC	1

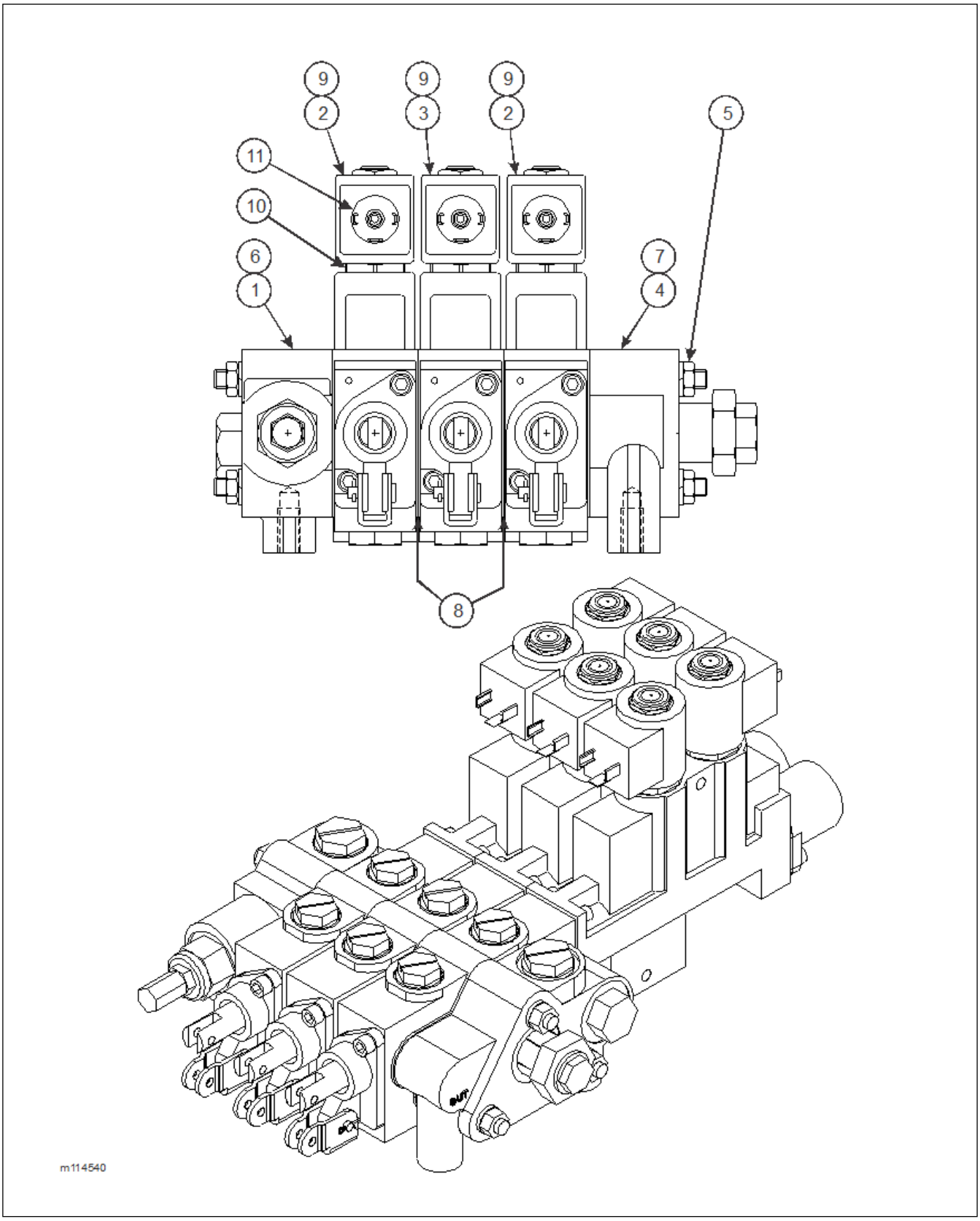


Figure 2-18: Three Spool Valve (Before 01/10/2008)

THREE SPOOL VALVE (BEFORE 01/10/2008)

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 **(INCLUDES ITEMS 10 & 11)**	

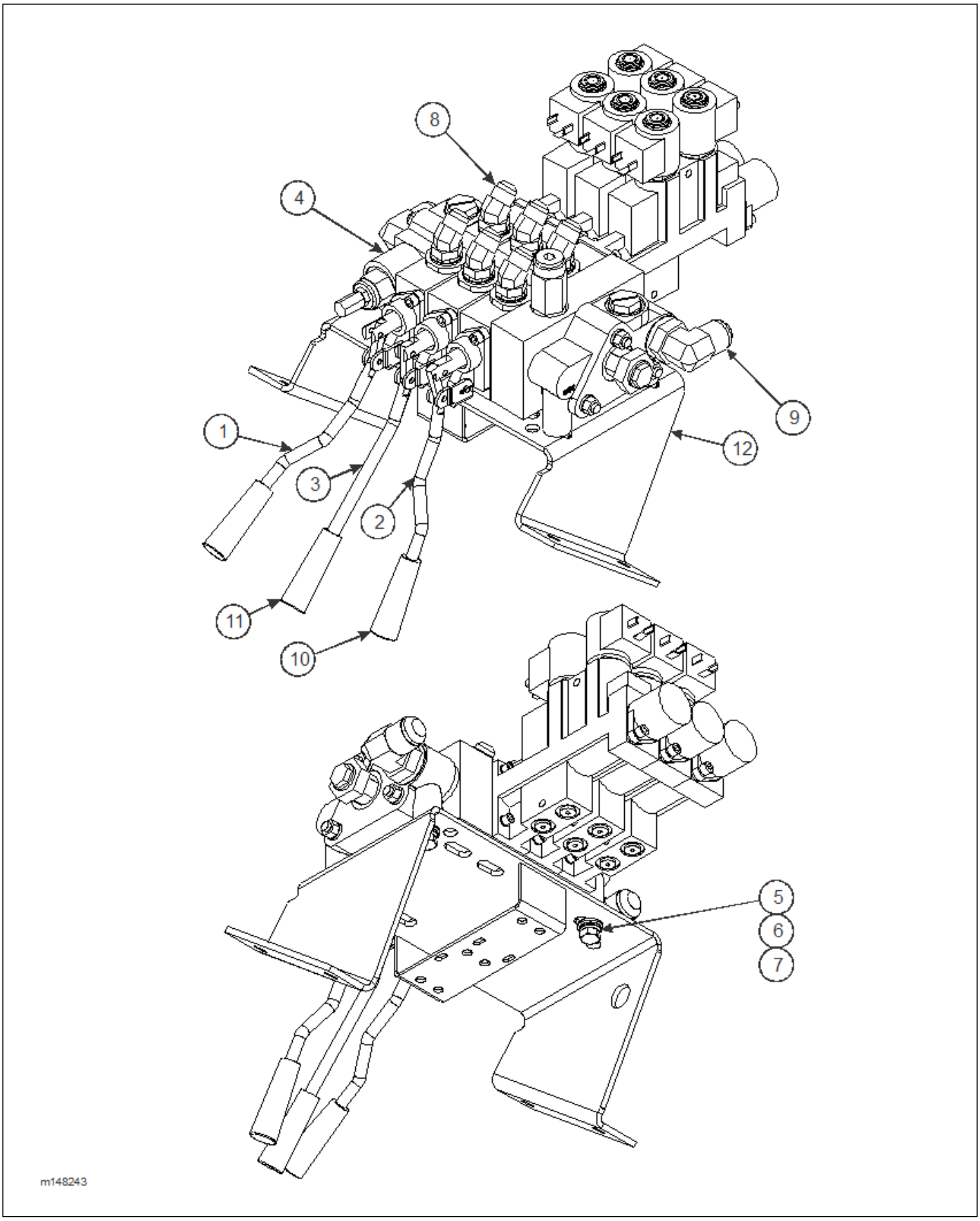


Figure 2-19: Three Spool Valve Assembly (After 01/10/2008)

THREE SPOOL VALVE ASSEMBLY (AFTER 01/10/2008)

ITEM	PART NO.	DESCRIPTION	QTY.
	148243	VALVE ASSEMBLY, 3 SPOOL	- -
1	136377	VALVE HANDLE, RH	1
2	136378	VALVE HANDLE, LH	1
3	139519	VALVE HANDLE, CTR FORMED	1
4	148240	VALVE, 3 STACK 2ND MOTOR SOL (SEE PAGE 2-39)	1
5	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
6	1-861-010032-10	WASHER, FLAT 3/8N	3
7	1-861-010034-11	WASHER, SPLIT LOCK 3/8	3
8	2061-8-8S	ADAPTER 45	6
9	2062-10-12S	ADAPTER, 90	2
10	3-360-010072	HANDLE, PLASTIC	2
11	3-360-010090	HANDLE, PLASTIC RED	1
12	3-482-010563	VALVE MOUNT WELDMENT, HYDRAULIC/PNEUMATIC	1

NOT SHOWN:
18 - COIL & CARTRIDGE KIT
22 - SEAL KIT, VALVE ASSEMBLY
25 - SEAL KIT, VALVE STACK

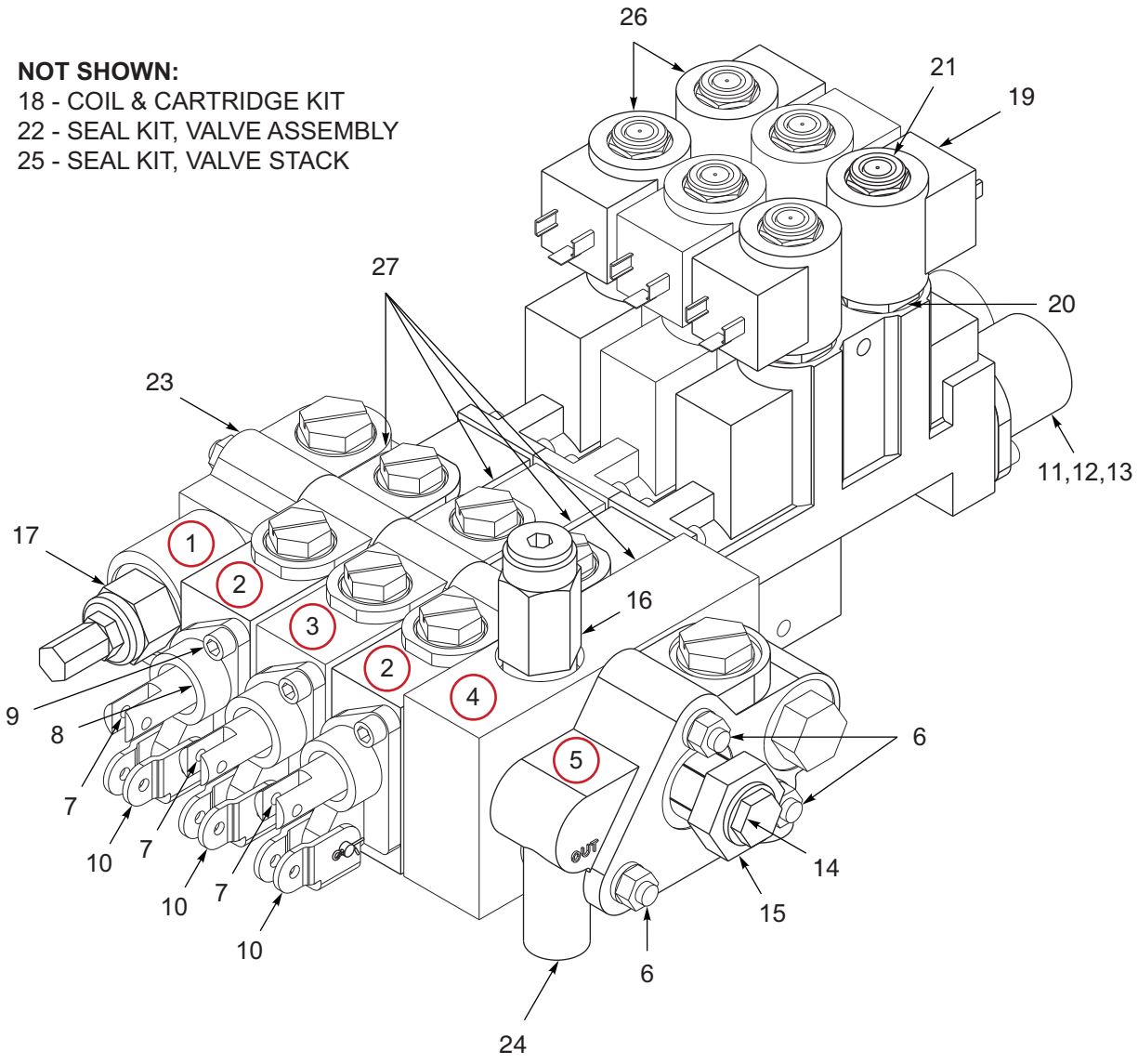


Image courtesy of the cylinder manufacturer.
Model modifications and replacement parts are subject to change with or with out notice.

Figure 2-20: Vakve, Three Spool (After 01/10/2008)

VALVE, THREE SPOOL (AFTER 01/10/2008)

ITEM	PART NO.	DESCRIPTION	QTY.
	148240	VALVE 3 STACK 2ND MTR SOL	1
1	149526	INLET SECTION SVA-S328	1
2	149527	VALVE SECTION SVA-S329 **(INCLUDES FRONT / REAR SECTIONS AND ITEMS 18-20)**	2
3	149528	VALVE SECTION SVA-S330 **(INCLUDES FRONT / REAR SECTIONS AND ITEMS 18-20)**	1
4	149529	UTILITY VALVE SECTION SVA-S327	1
5	142483	OUTLET SECTION SVA-S305	1
6	149530	TIEROD KIT	1
7	169843	PIN/CLEVIS KIT SPOOL VALVE **(1 PER HANDLE)**	3
8	671900011	BASE, HANDLE	3
9	120749	SCREW 170003017 PDC	3
10	671400040	CLEVIS ASSEMBLY	3
11	671400033	COVER, SPOOL END	3
12	670500045	SPOOL BACKUP WASHER	3
13	240000208	O-RING	3
14	151823	CARTRIDGE PRINCE 660280068	1
15	138179	CARTRIDGE PWR BYD PRESSSURE	1
16	149030	CARTRIDGE PRESSURE REDUCING	1
17	182089	CARTRIDGE RELIEF 2500PSI	1
18	142486	COIL/CARTRG ASSY HF 660381061 **(2 PER SECTION)** **(INCLUDES ITEMS 19-21)**	6
19	142484	COIL HF PRINCE 671302141 **(2 PER SECTION)**	6
20	142485	CARTRIDGE HF PRINCE 660263007 **(2 PER SECTION)**	6
21	143141	COIL NUT PRINCE #671800021 **(2 PER SECTION)**	6
22	114553	SEAL KIT, PRINCE VALVE **(INCLUDES ITEMS 23-27)** **(FITS 1, 2 & 3 VALVE ASSEMBLIES)**	1
23	660580002	SEAL KIT, INLET,STACK VALVE	1
24	660580003	SEAL KIT,OUTLET,STACK VALVE	1
25	660580004	SEAL KIT VALVE PRINCE STACK	1
26	660580005	KIT O-RING COMPLETE SOLENOID **(1 PER SECTION)**	3
27	660585006	SEAL KIT PILOT BTW SECTIONS **(1 EACH BETWEEN SECTIONS)**	4

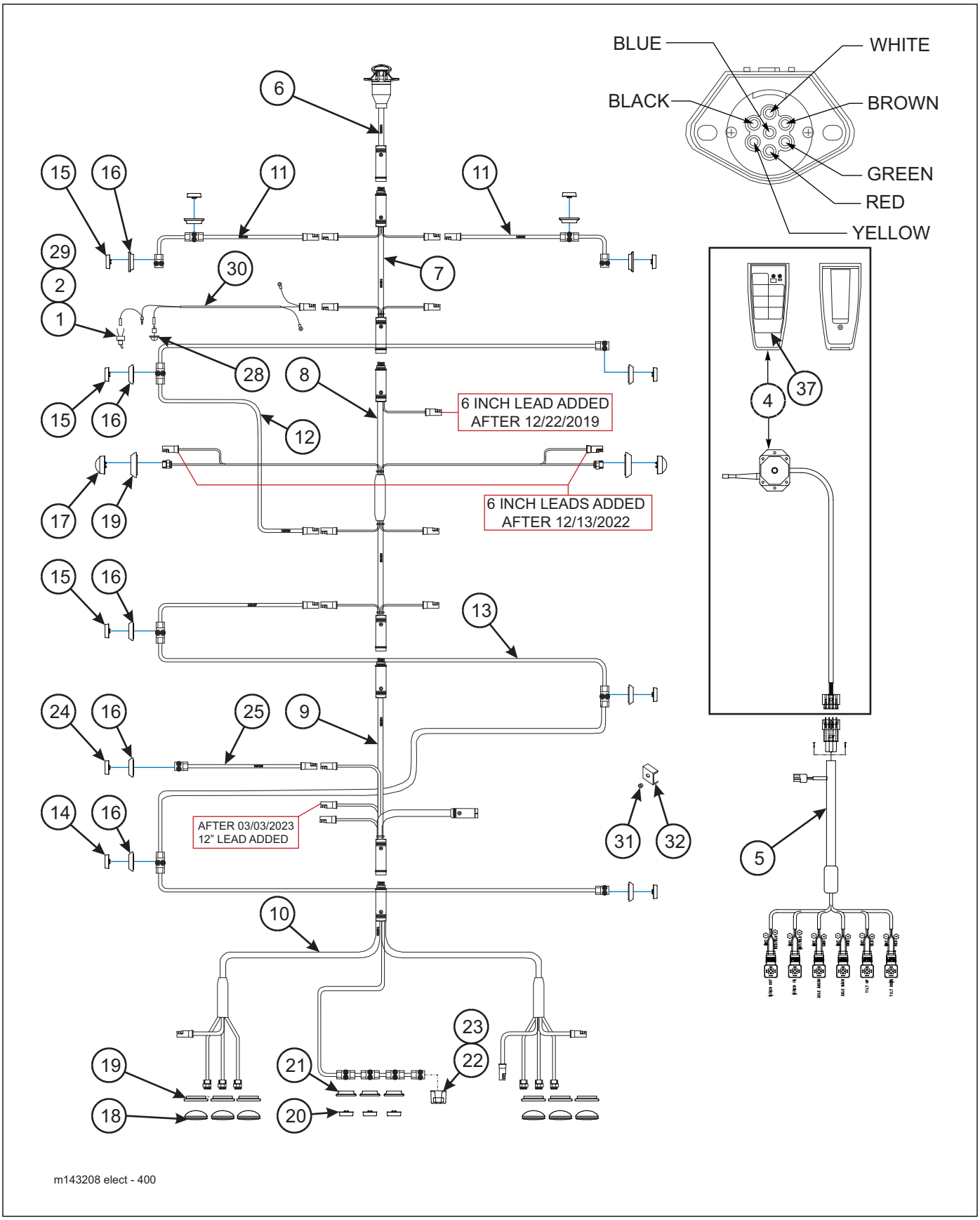


Figure 2-21: Electrical System

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
5	140083	HARNESS ASSY, KAR-TECH 400	1
6	143100	HARNESS, 7 WAY RECEPTACLE	1
7	143101	HARNESS, FRONT MAIN	1
8	143102	HARNESS, BED MAIN	1
9	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	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	169410	LIGHT, YEL MID 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 ASSEMBLY, CONTROL PANEL 600	1
31	1-510-010001	NUT, FLANGE 3/8-16	- -
32	2-181-010001	CLAMP, HOSE	- -
37	143128	DECAL, 6 FUNCTION WINCH, TILT, AXLE	1
38	143111	GROMMET, 2.5 RECESSED MOUNT	4

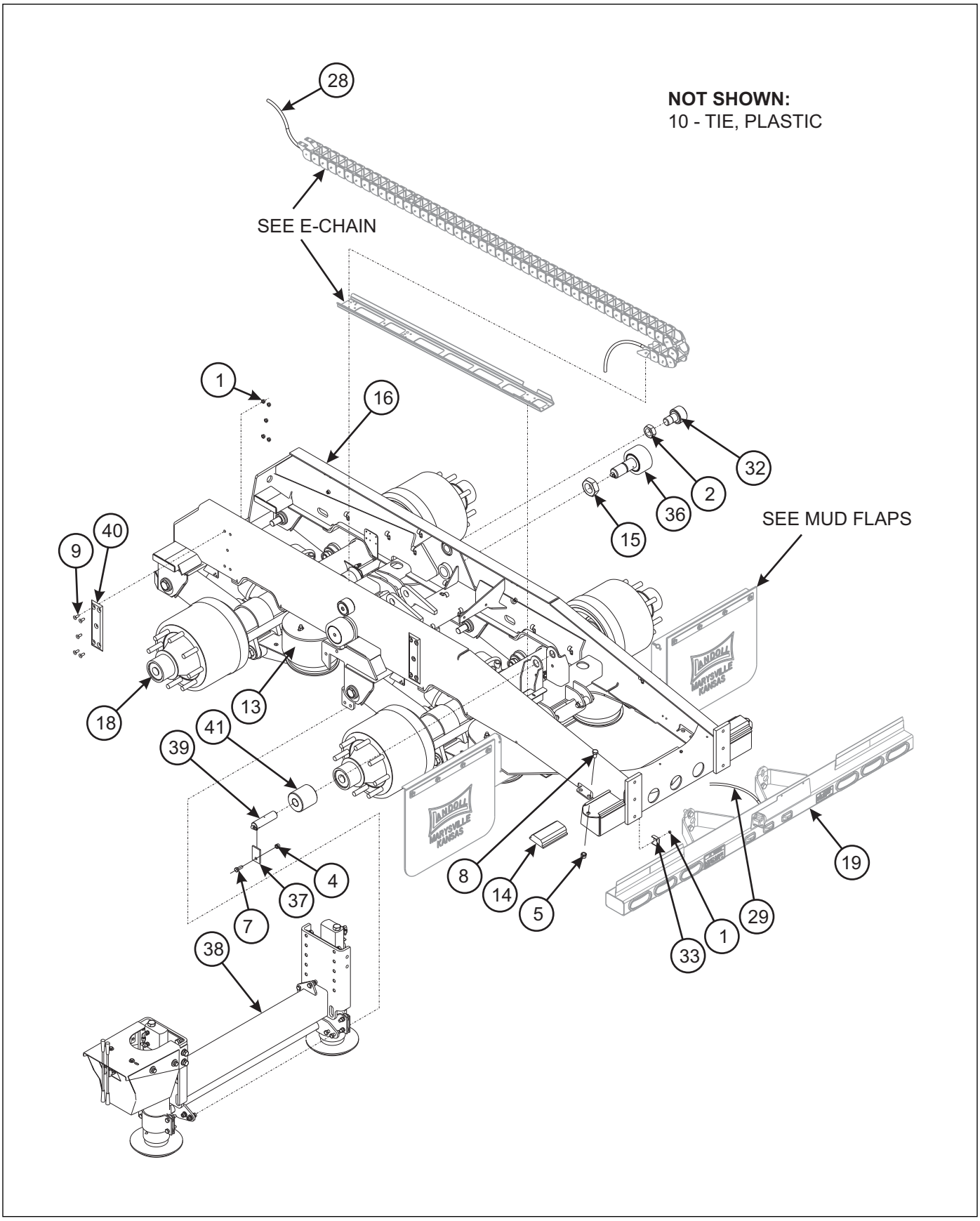


Figure 2-22: Undercarriage & Grease System, 2AX (1 of 2)

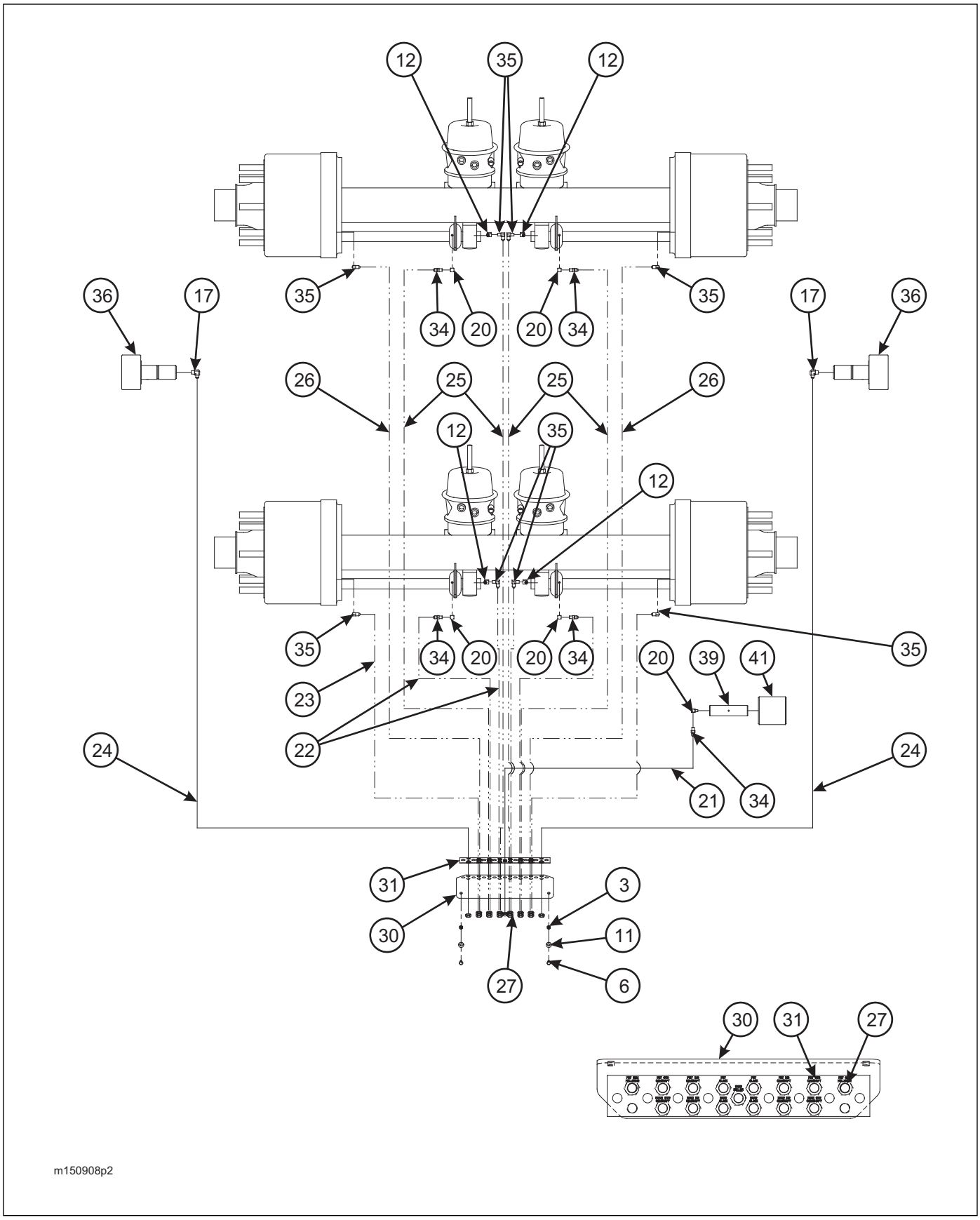


Figure 2-23: Undercarriage & Grease System, 2AX (2 of 2)

UNDERCARRIAGE & GREASE SYSTEM, 2AX

ITEM	PART NO.	DESCRIPTION	QTY.
	150908	SUSPENSION U/C ASSEMBLY A/R ABS 2512-70.5 D/L	- -
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	11
2	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
3	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
6	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1-1/4 GR5	2
9	1-654-010141-04	SCREW, HEX SOCKET FL CAP 3/8-16 X 1 GR8	20
10	1-796-010004-02	TIE, STRAP, PLASTIC **(NOT SHOWN)**	4
11	1-861-010032-07	WASHER, FLAT 1/4	2
12	101528	ELBOW, BRASS PIPE STREET	4
13	- - - - -	SUSPENSION ADJ RLU-228 **(AIR SYSTEM, ABS - SEE PAGE 2-83)** **(AIR SYSTEM, AIR RIDE - SEE PAGE 2-57)** **(AIR SYSTEM, TIRE INFLATION - SEE PAGE 2-189)** **(COMPONENTS - SEE PAGE 2-64)**	2
14	102698	PLATE, RUB BUMPER	2
15	104034	NUT, HEX 2-12 GR2	2
16	112549	SUSPENSION WELDMENT E/P ABS A/R 660	1
17	113268	ADAPTER 90	2
18	- - - - -	AXLE WELDMENT A/R **(COMPONENTS - SEE PAGES 2-67 TO 2-73)**	2
19	- - - - -	BUMPER WELDMENT **(BUMPER ASSEMBLIES - SEE PAGE 2-51)** **(ELECTRICAL - SEE PAGE 2-41)**	1
20	121355	ELBOW, 90	5
21	142441	HOSE ASSEMBLY GREASE X 45 **(REAR ROLLER)**	1
22	142442	HOSE ASSEMBLY GREASE X 60 **(REAR INNER CAMSHAFTS, REAR SLACK ADJUSTERS)**	4
23	142443	HOSE ASSEMBLY GREASE X 72 **(REAR OUTER CAMSHAFTS)**	2
24	142444	HOSE ASSEMBLY, GREASE 1/4 X 83 **(5" CAM FOLLOWERS)**	2
25	142446	HOSE ASSEMBLY GREASE X 118 **(FRONT INNER CAMSHAFTS, FRONT SLACK ADJUSTERS)**	4
26	142447	HOSE ASSEMBLY GREASE X 126 **(FRONT OUTER CAMSHAFTS)**	2
27	142545	NUT, 7/16	16
28	143103	HARNESS ASSEMBLY, E-CHAIN **(ELECTRICAL - SEE PAGE 2-41)**	1
29	143104	HARNESS ASSEMBLY, BUMPER **(ELECTRICAL - SEE PAGE 2-41)**	1
30	143182	BRACKET, GREASE HOSE	1
31	143688	DECAL, GREASE	1
32	145532	CAM FOLLOWER, 3" SEALED	2
33	2-181-010001	CLAMP, HOSE	1
34	2021-2-4	ADAPTER, STRAIGHT	4

UNDERCARRIAGE & GREASE SYSTEM, 2AX

ITEM	PART NO.	DESCRIPTION	QTY.
35	2024-2-4S	ADAPTER, ELBOW	8
36	3-076-010015	CAM FOLLOWER 5" DIA	2
37	3-187-010013	CLIP, PIN RETAINER	1
38	3-256-010003-02	DOCK LEVEL ASSEMBLY **(COMPONENTS - SEE PAGE 2-127)**	1
39	3-557-010466-01	PIN, 1-1/2	1
40	3-565-011218	PLATE, RUB U/C	4
41	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1

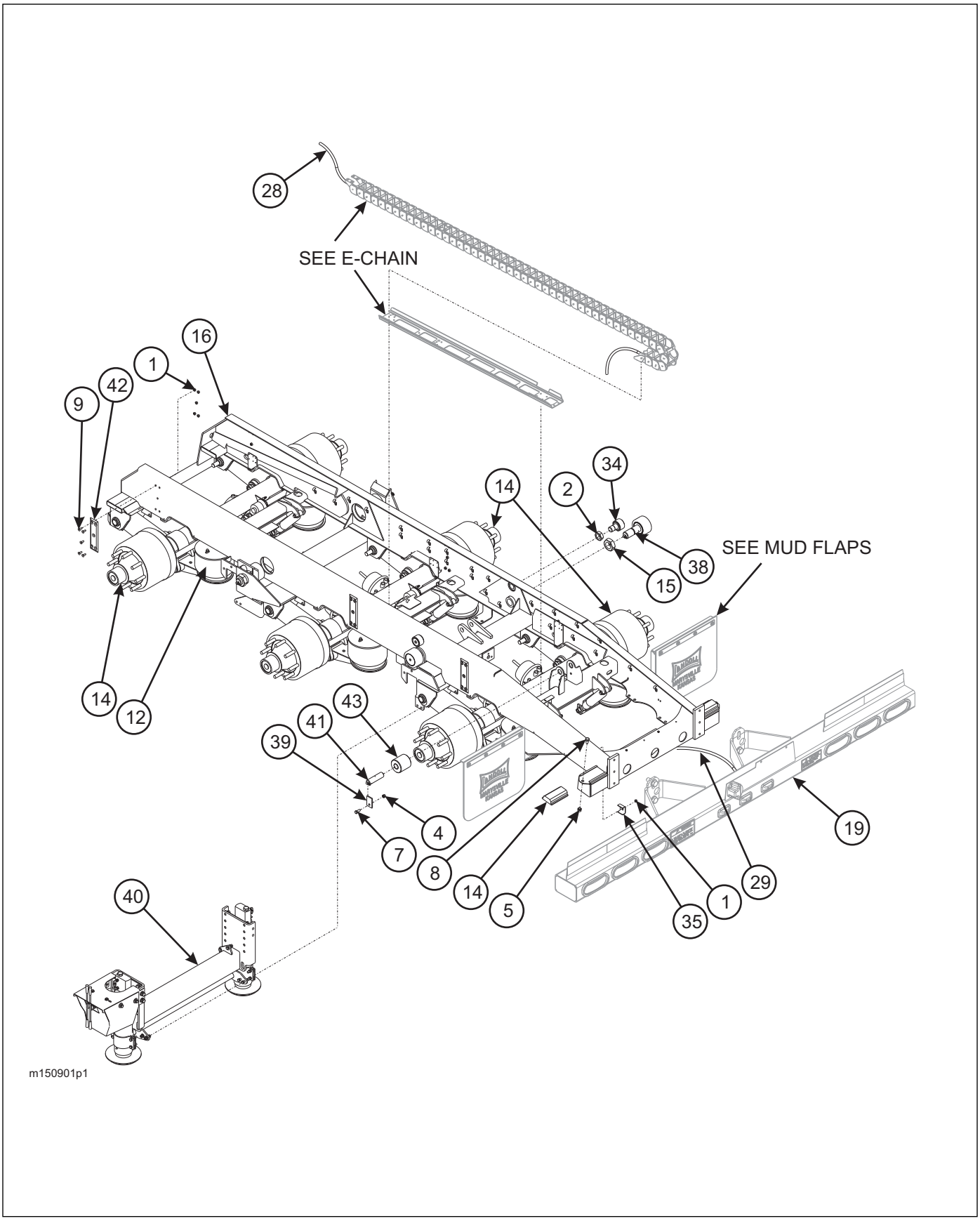


Figure 2-24: Undercarriage & Grease System, 3AX (1 of 2)

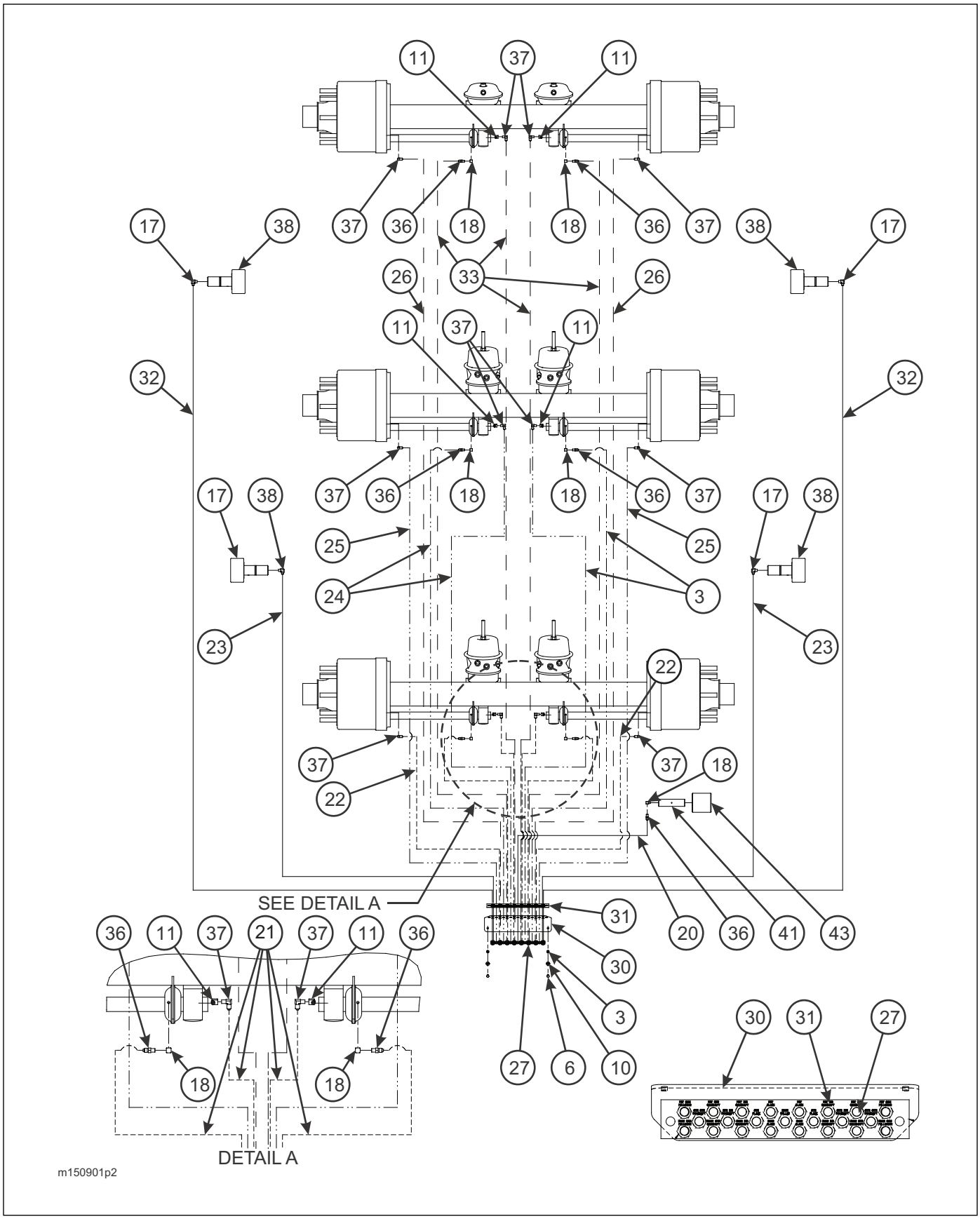


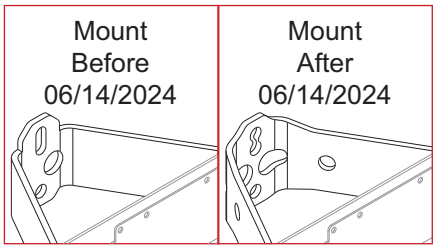
Figure 2-25: Undercarriage & Grease System, 3AX (2 of 2)

UNDERCARRIAGE & GREASE SYSTEM, 3AX

ITEM	PART NO.	DESCRIPTION	QTY.
	150900	SUSPENSION U/C ASSEMBLY A/R ABS, 102	- -
	150901	SUSPENSION U/C ASSEMBLY A/R ABS, 108	- -
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	11
2	1-511-010001-14	NUT, HEX JAM 1-1/2-12	4
3	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	1
5	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
6	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
7	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
8	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
9	1-654-010141-04	SCREW, HEX SOCKET FL CAP 3/8-16 X 1 GR8	20
10	1-861-010032-07	WASHER, FLAT 1/4	2
11	101528	ELBOW, BRASS PIPE STREET	6
12	- - - - -	SUSPENSION ADJ RLU-228 **(AIR SYSTEM, ABS - SEE PAGE 2-83)** **(AIR SYSTEM, AIR RIDE - SEE PAGE 2-59)** **(AIR SYSTEM, TIRE INFLATION - SEE PAGE 2-189)** **(COMPONENTS - SEE PAGE 2-64)**	3
13	102698	NYLATRON RUB PLATE	2
14	- - - - -	AXLE WELDMENT A/R **(COMPOENTS - SEE PAGES 2-67 TO 2-73)**	2
15	104034	NUT, HEX 2-12 GRB	4
16	104923	SUSPENSION WELDMENT E/P ABS A/R	1
16	112575	SUSPENSION WELDMENT E/P ABS A/R	1
17	113268	ADAPTER, 90	4
18	121355	ELBOW, 90	4
19	- - - - -	BUMPER WELDMENT **(BUMPER ASSEMBLIES - SEE PAGE 2-51)**	1
20	142441	HOSE ASSEMBLY, GREASE 1/8 X 45 **(REAR ROLLER)**	1
21	142442	HOSE ASSEMBLY, GREASE 1/8 X 60 **(REAR INNER CAMSHAFTS, REAR SLACK ADJUSTERS)**	4
22	142443	HOSE ASSEMBLY, GREASE 1/8 X 72 **(REAR OUTER CAMSHAFTS)**	2
23	142444	HOSE ASSEMBLY, GREASE 1/8 X 83 **(REAR 5" CAM FOLLOWERS)**	2
24	142446	HOSE ASSEMBLY, GREASE 1/8 X 118 **(CENTER INNER CAMSHAFTS, CENTER SLACK ADJUSTERS)**	4
25	142447	HOSE ASSEMBLY, GREASE 1/8 X 126 **(CENTER OUTER CAMSHAFTS)**	2
26	142454	HOSE ASSEMBLY, GREASE 1/8 X 200 **(FRONT OUTER CAMSHAFTS)**	2
27	142545	NUT, 7/16	25
28	143103	HARNESS, E-CHAIN **(ELECTRICAL - SEE PAGE 2-41)**	1
29	143104	HARNESS, BUMPER **(ELECTRICAL - SEE PAGE 2-41)**	1
30	143182	BRACKET, GREASE HOSE	1
31	143688	DECAL, GREASE	1
32	144614	HOSE ASSEMBLY, GREASE 1/8 X 172 **(FRONT 5" CAM FOLLOWERS)**	2
33	145416	HOSE ASSEMBLY, GREASE 1/8 X 186 **(FRONT INNER CAMSHAFTS, FRONT SLACK ADJUSTERS)**	4

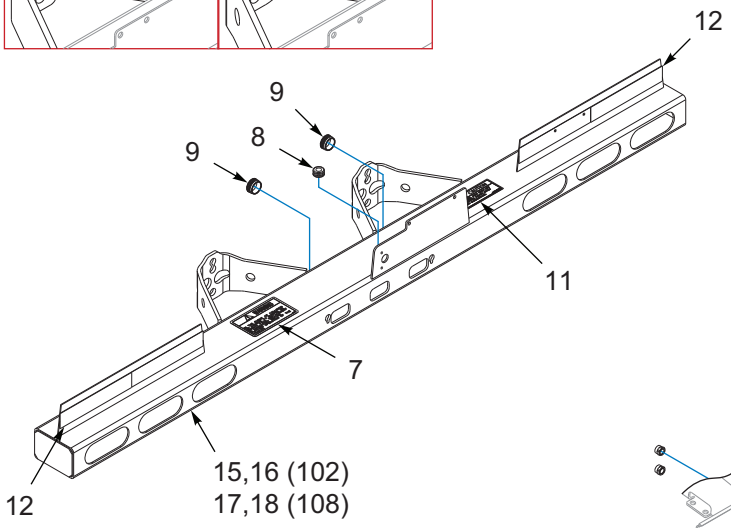
UNDERCARRIAGE & GREASE SYSTEM, 3AX

ITEM	PART NO.	DESCRIPTION	QTY.
34	145532	CAM FOLLOWER, 3" DIA SEALED	2
35	2-181-010001	CLAMP, HOSE	1
36	2021-2-4	ADAPTER, STRAIGHT	7
37	2024-2-4S	ADAPTER, ELBOW	14
38	3-076-010015	CAM FOLLOWER 5" DIA	4
39	3-187-010013	CLIP, PIN RETAINER	1
40	3-256-010003-08	DOCK LEVELER ASSEMBLY 60K **(COMPONENTS - SEE PAGE 2-127)**	1
41	3-557-010466-01	PIN, 1-1/2	1
42	3-565-011218	PLATE, RUB U/C	4
43	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1

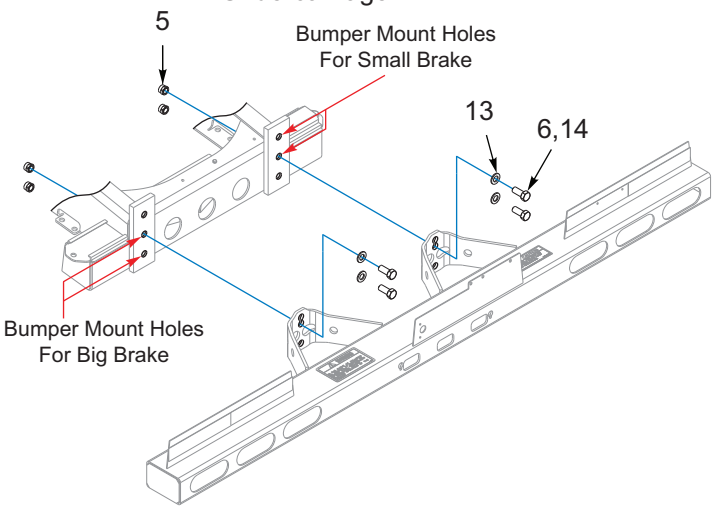


NOT SHOWN:
10 - Loom, Split (For License Plate Light Wires)

Bumper Assembly WO/ Lights
1 - Kit, 102, Black Bumper (Items 5-14, 15)
2 - Kit, 102, Galv Bumper (Items 5-14, 16)
3 - Kit, 108, Black Bumper (Items 5-14, 17)
4 - Kit, 108, Galv Bumper (Items 5-14, 18)



Multi Height
Non-Threaded Mount
Undercarriage



NOTE:
Items Below are Sold Separatly.

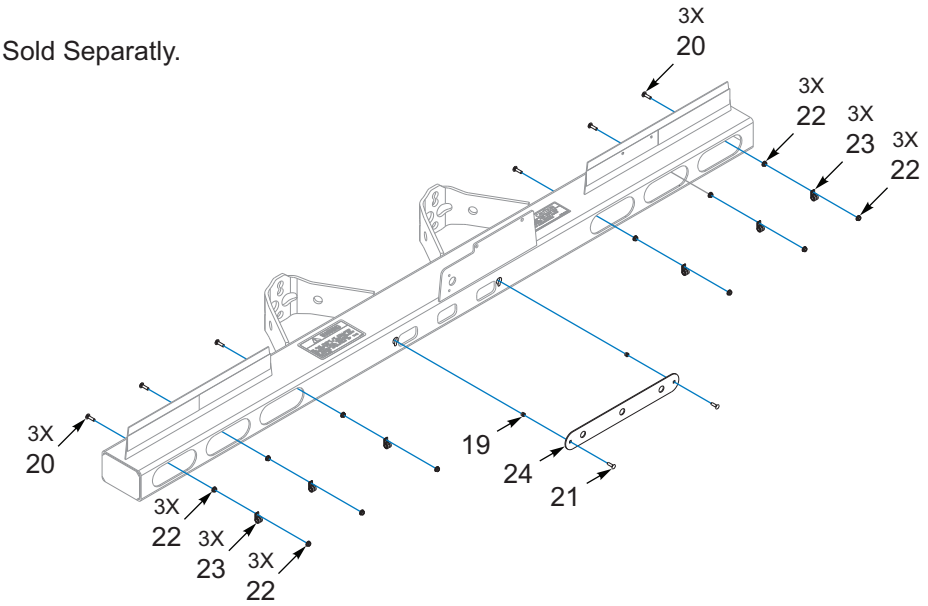
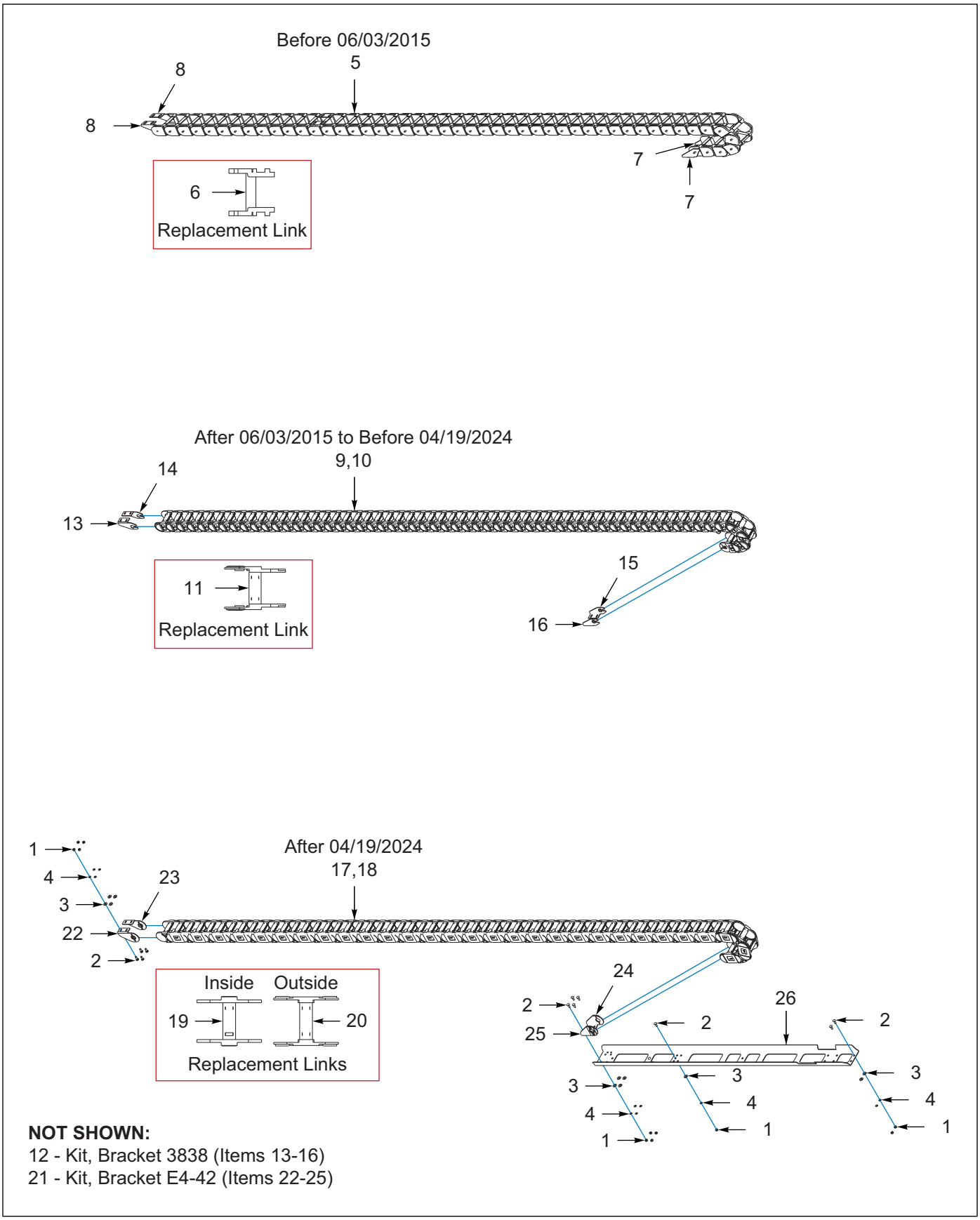


Figure 2-26: Bumper, Rear

BUMPER, REAR

ITEM	PART NO.	DESCRIPTION	QTY.
1	119580FI	BUMPER (REPL)102 WIDE U/C BLK **(102 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 5-14, 15)**	- -
2	204955FI	BUMPER (REPL)102 WIDE U/C GALV **(102 GALV BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 5-14, 16)**	- -
3	121369FI	BUMPER (REPL)108 WIDE U/C BLK **(108 BLACK BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 5-14, 17)**	- -
4	205812FI	BUMPER (REPL)108 WIDE U/C GALV **(108 GALV BUMPER ASSEMBLY, WO/ LIGHTS) (KIT INCLUDES ITEMS 5-14, 18)**	- -
5	1-512-010002-15	NUT,HEX SLFLKG 3/4-10 GRC **(INCLUDED WITH ITEMS 1-4)**	4
6	1-654-010032-4	SCREW 3/4-10X1-3/4 HX CP ZPG8 **(INCLUDED WITH ITEMS 1-4)**	4
7	103056	DECAL, ENERGY BUMPER WARNING **(INCLUDED WITH ITEMS 1-4)**	1
8	237-2308-004	GROMMET 5/8ID **(INCLUDED WITH ITEMS 1-4)**	1
9	203248	PLUG,PLASTIC PANEL 1-1/2 **(INCLUDED WITH ITEMS 1-4)**	2
10	254541	LOOM SPLIT 1/4" ID **(BY THE FOOT) (INCLUDED WITH ITEMS 1-4)**	1
11	3-573-010031	DECAL TRAILER BUMPER **(INCLUDED WITH ITEMS 1-4)**	1
12	3-573-010377	DECAL,2"REFLEXITE TAPE,RD/WHT **(BY THE INCH) (INCLUDED WITH ITEMS 1-4)**	84
13	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE **(INCLUDED WITH ITEMS 1-4)**	4
14	#242 LOCKTITE	LOCTITE 242 BLUE REMOVABLE **(BY THE BOTTLE) (INCLUDED WITH ITEMS 1-4)**	1
15	- - - - -	BUMPER WLDMT, 102 BLACK **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 1) (INCL. ENERGY CERT PLACARD)**	1
16	- - - - -	BUMPER WLDMT, 102 GALV **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 2) (INCL. ENERGY CERT PLACARD)**	1
17	- - - - -	BUMPER WLDMT, 108 BLACK **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 3) (INCL. ENERGY CERT PLACARD)**	1
18	- - - - -	BUMPER WLDMT, 108 GALV **(NOT SOLD SEPARATLY) (INCLUDED WITH ITEM 4) (INCL. ENERGY CERT PLACARD)**	1
19	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
20	1-654-010158-02	SCREW,RHD,SQ NCK 1/4-20UNCX1	6
21	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	2
22	108417	NUT SPIRAL 1/4-20HX FG	12
23	125894	CLAMP, CABLE 5/8 SST	6
24	179906	PLATE MTG MICRO ID LIGHTS	1



NOT SHOWN:
12 - Kit, Bracket 3838 (Items 13-16)
21 - Kit, Bracket E4-42 (Items 22-25)

Figure 2-27: E-Chain & E-Chain Tray

E-CHAIN & E-CHAIN TRAY

ITEM	PART NO.	DESCRIPTION	QTY.
	150908	SUSPENSION U/C ASSEMBLY A/R ABS 2512-70.5 D/L	- -
	150900	SUSPENSION U/C ASSEMBLY A/R ABS, 102	- -
	150901	SUSPENSION U/C ASSEMBLY A/R ABS, 108	- -
1	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	12
2	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNCX3/4	12
3	1-861-010032-07	WASHER,FLAT 1/4 ZP	12
4	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	12
5	3-755-010189	SUPPORT, E-CHAIN, 660FG **(48 LINKS, MODEL 38, W/BRKTS) (BEFORE 06/03/2015) (KIT OBSOLETE - ORDER ITEM 17)**	- -
6	3-755-010189-1	SUPPORT,E-CHAIN INDV LINK **(MODEL 38) (BEFORE 06/03/2015) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
7	106603	BRKT,E-CHN MT W/HOLE MVG380-L **(SET) (BEFORE 06/03/2015)**	1
8	106604	BRKT E-CHN MT W/PIN STA 380-2 **(SET) (BEFORE 06/03/2015)**	1
9	189382	FI KIT,E-CHAIN,48 LNK W/BRKT **(06/03/2015 TO 04/19/2024) (KIT OBSOLETE - ORDER ITEM 17)**	- -
10	189314	SUPPORT, E-CHAIN,48 LINKS,3838 **(06/03/2015 TO 04/19/2024) (OBSOLETE - ORDER ITEM 17)**	- -
11	189313	LINK, E-CHAIN, MODEL 3838 **(06/03/2015 TO 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
12	197586	BRACKET KIT (4) 3838 E-CHAIN **(06/03/2015 TO 04/19/2024) (KIT INCLUDES ITEMS 13-16)**	1
13	190700ZP	ZINC PLATE BRACKET E-CHAIN LH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
14	190705ZP	ZINC PLATE BRACKET E-CHAIN RH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
15	190701	BRACKET WLDMT E-CHAIN LH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
16	190706	BRACKET WLDMT E-CHAIN RH **(06/03/2015 TO 04/19/2024) (INCLUDED WITH ITEM 12)**	1
17	249147	E-CHAIN, E4-42, 48LNK FI KIT **(AFTER 04/19/2024) (KIT INCLUDES ITEMS 18 & 21)**	1
18	249134	E-CHAIN, E4-42, 48LNK **(AFTER 04/19/2024) (INCLUDED WITH ITEM 17)**	1
19	249139	REPL LINK, E4-42, INSIDE **(AFTER 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
20	249141	REPL LINK, E4-42, OUTSIDE **(AFTER 04/19/2024) (INCLUDES 2 CROSSBARS & 2 END PLATES)**	1
21	249142	E4-42 BRACKET KIT FI **(AFTER 04/19/2024) (KIT INCLUDES ITEMS 22-25) (INCLUDED WITH ITEM 17)**	1
22	245969	ECHAIN BKT RH PVT WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
23	245965	ECHAIN BKT LH PVT WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
24	245968	ECHAIN BKT RH HLD WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
25	245963	ECHAIN BKT LH HLD WLD **(AFTER 04/19/2024) (INCLUDED WITH ITEM 21)**	1
26	3-821-010005	TRAY, CAT-TRACK	1

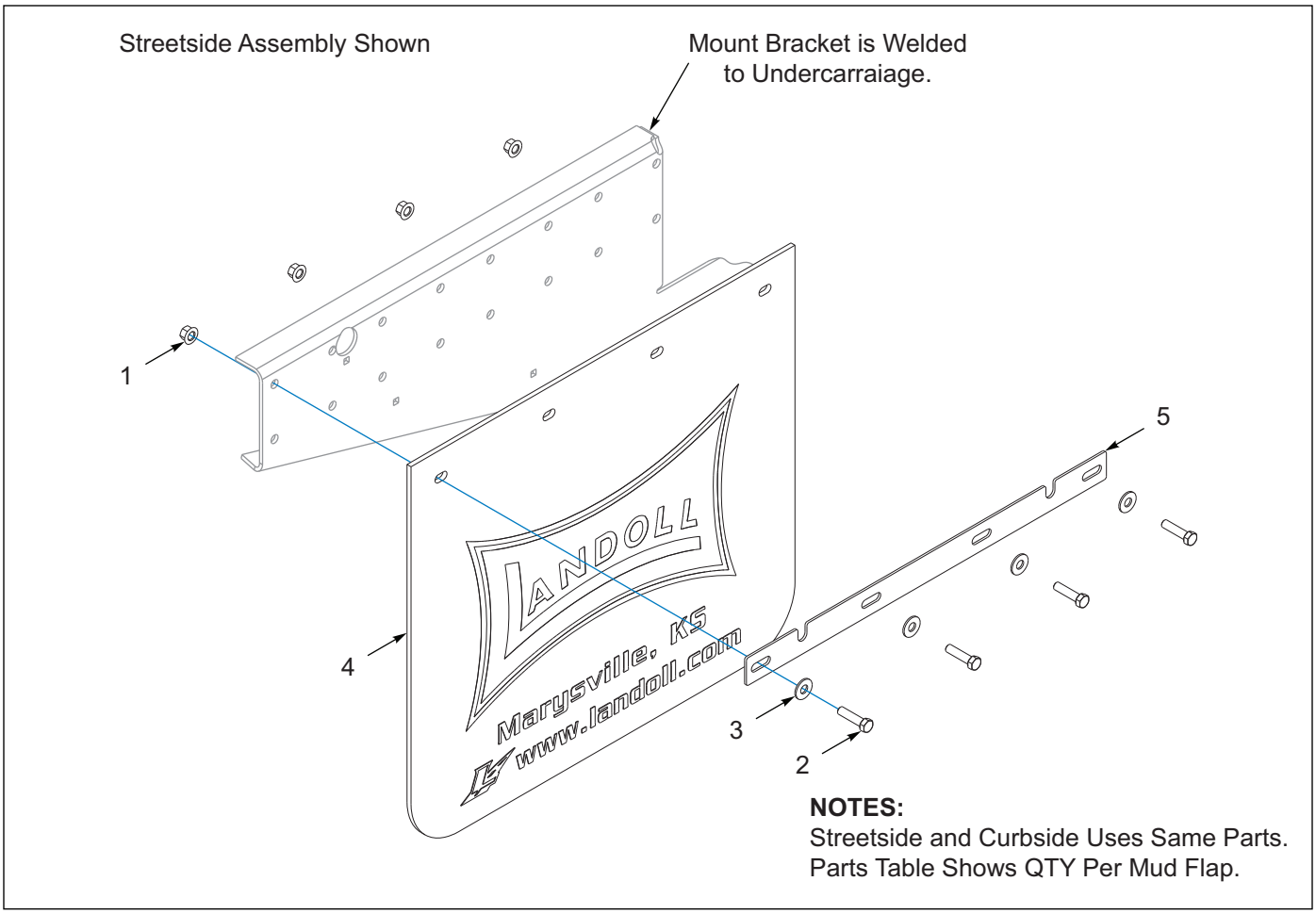


Figure 2-28: Mud Flaps

MUD FLAPS

ITEM	PART NO.	DESCRIPTION	QTY.
	150908	SUSPENSION U/C ASSEMBLY A/R ABS 2512-70.5 D/L	- -
	150900	SUSPENSION U/C ASSEMBLY A/R ABS, 102	- -
	150901	SUSPENSION U/C ASSEMBLY A/R ABS, 108	- -
1	1-510-010001	NUT, 3/8-16 UNC FLG LOCK GR G	4
2	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	3-485-010001	FLAP, MUD 21 IN	1
5	3-762-010017	CLAMP MUD FLAP	1

Table provided for general use.

NOTES:

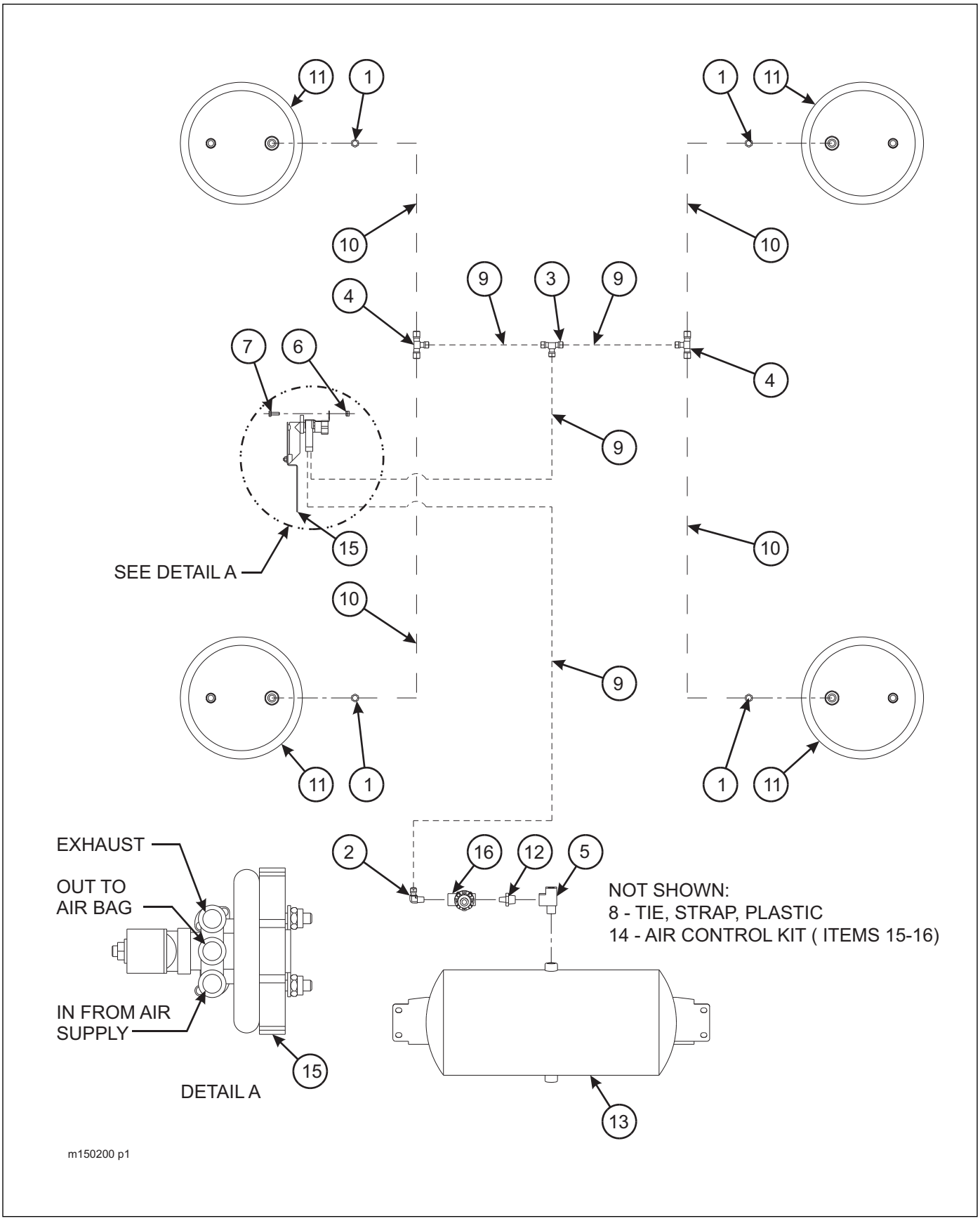


Figure 2-29: Air Ride Suspension Air System (Tandem)

AIR RIDE SUSPENSION AIR SYSTEM (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.	
	103082	AIR RIDE, AIR SYSTEM **(TANDEM)**	*	
	103083	AIR RIDE, AIR SYSTEM **(SPREAD)**		*
1	1-297-010007-11	FITTING AIR	4	4
2	1-297-010008-07	FITTING AIR 90	1	1
3	1-297-010010-01	FITTING AIR UNION TEE	1	1
4	1-297-010010-04	FITTING AIR UNION TEE	2	2
5	1-297-010018-04	FITTING BRASS PIPE STREET TEE	1	1
6	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	2	2
7	1-654-010047-04	SCREW HEX HEAD CAP 1/4-20 X 3/4 GR5	2	2
8	1-796-010004-02	TIE STRAP PLASTIC **(NOT SHOWN)**	15	15
9	1-833-010001	TUBING NYLON 1/4 OD	AR	AR
10	1-833-010002	TUBING NYLON 3/8 OD	AR	AR
11	102363	SUSPENSION, ADJ RLU-228-3.5 (**SEE PAGE 2-64)**	REF	REF
12	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1	1
13	3-780-010002	TANK AIR	REF	REF
14	102732	AIR CONTROL KIT **(INCLUDES ITEMS 15-16) (SEE PAGE 2-61)**	1	1
15	900 54 007	HEIGHT CONTROL VALVE N **(FOR 1/4" AIR LINE) (INCLUDED WITH ITEMS 14) (SEE PAGE 2-61)**	REF	REF
16	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692) (INCLUDED WITH ITEM 14) (SEE PAGE 2-61)**	REF	REF

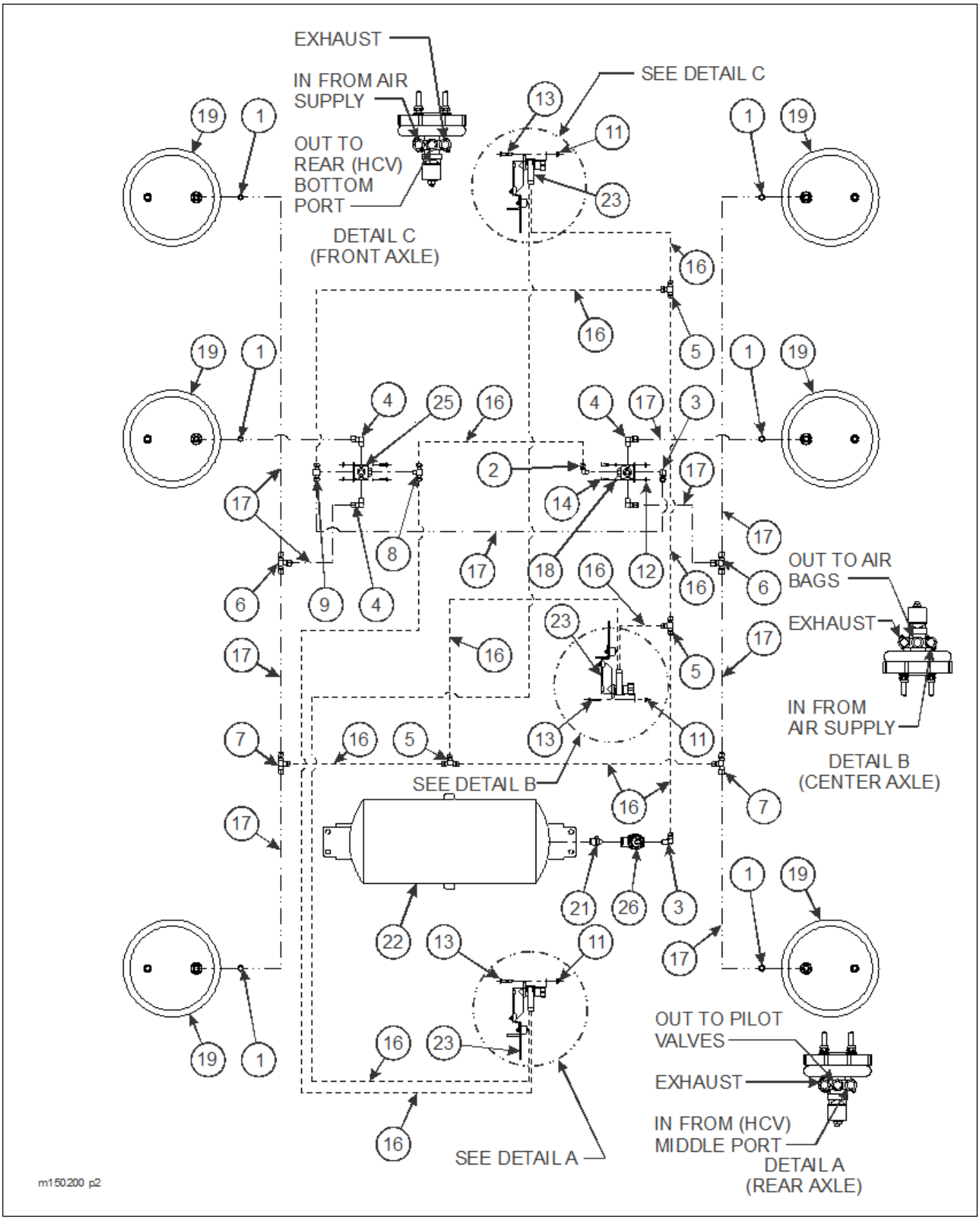


Figure 2-30: Air Ride Suspension Air System (Triple)

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 2-64)**	REF
21	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
22	3-780-010002	TANK AIR	REF
23	3F843-010034	FI VALVE RIDE HEIGHT CONTROL **(SEE PAGE 2-61)** **(INCLUDES VALVE & 18-1/4" LINKAGE)**	3
25	900-54-079	PILOT VALVE	2
26	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	1

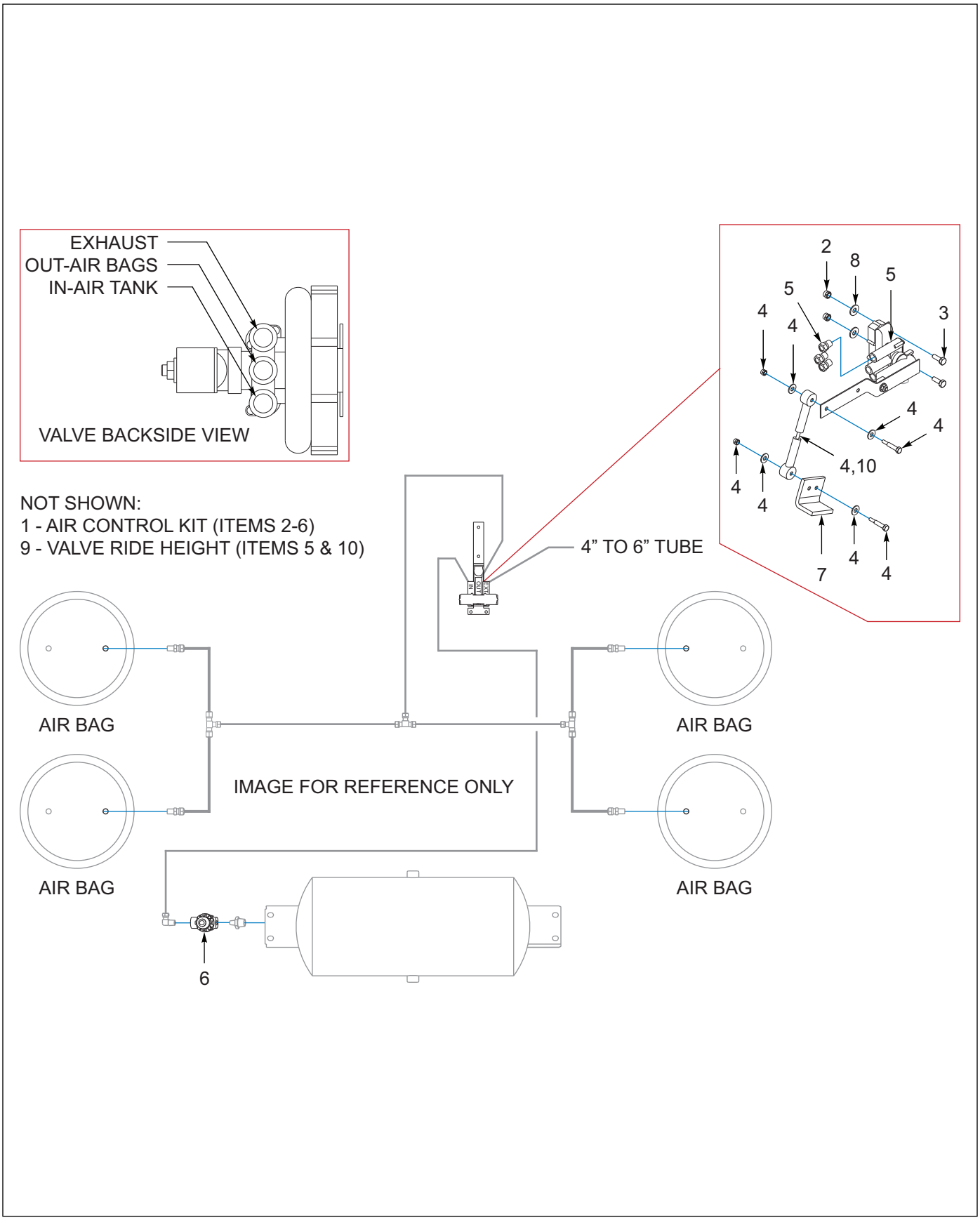
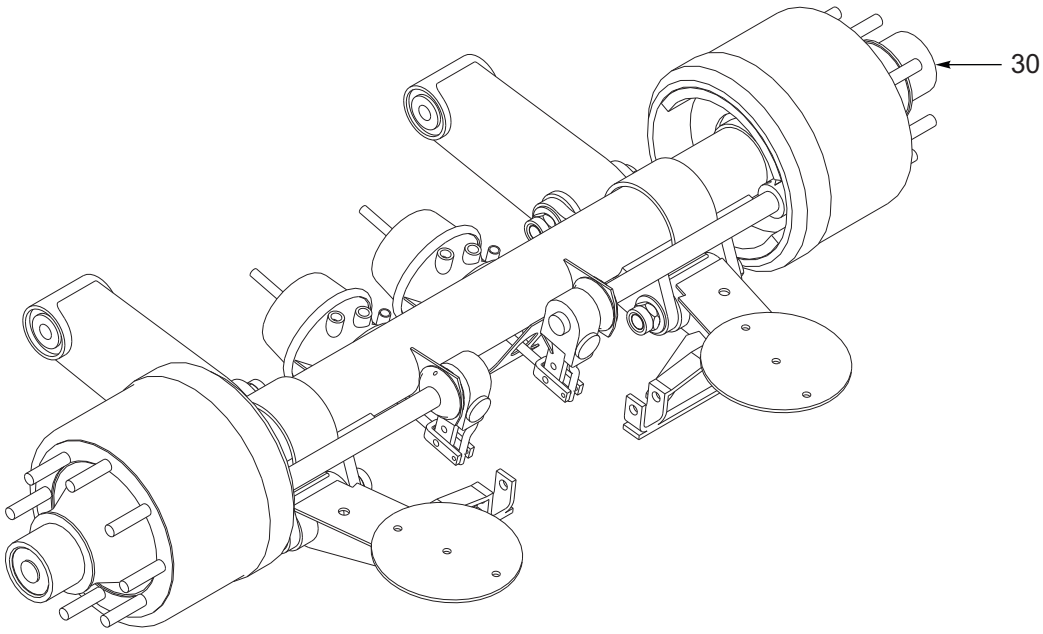


Figure 2-31: Air Control Kit

AIR CONTROL KIT

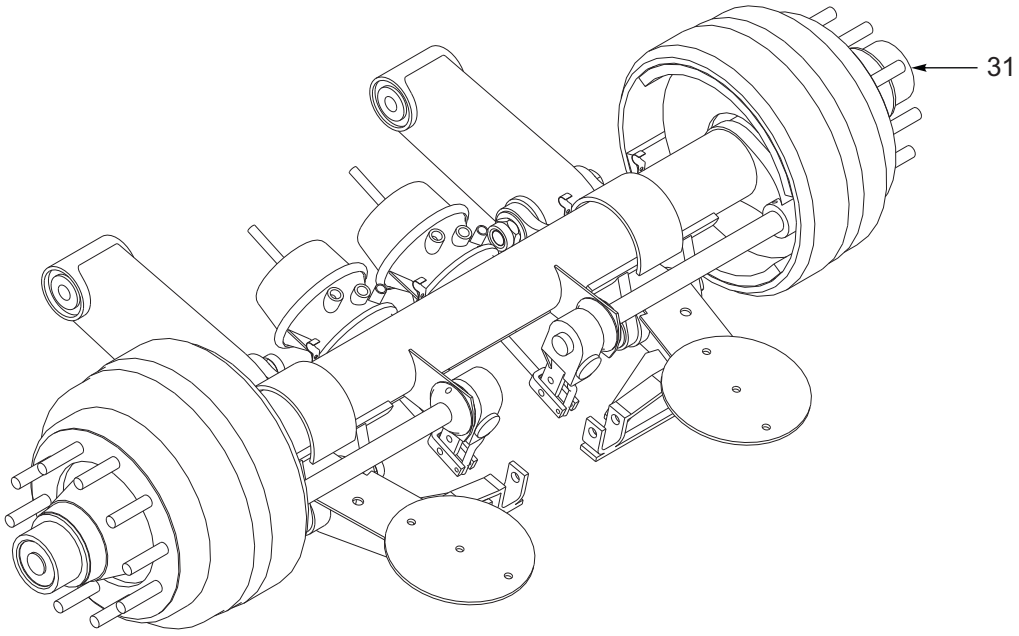
ITEM	PART NO.	DESCRIPTION	QTY.
1	102732	AIR CONTROL KIT **(INCLUDES ITEMS 2-6)**	1
2	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20 **(INCLUDED WITH ITEM 1)**	2
3	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5 **(INCLUDED WITH ITEM 1)**	2
4	111021	KIT SRK-167 NEWAY 952-50-001 **(INCLUDED WITH ITEM 1)** **(INCLUDES 14-1/2" LONG ROD)**	1
5	900 54 007	HEIGHT CONTROL VALVE N **(FOR 1/4" AIR LINE)** **(INCLUDED WITH ITEMS 1 & 9)**	1
6	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)** **(INCLUDED WITH ITEM 1)**	1
7	238806	BRCKT LINK, RIDE HGHT **(SOLD SEPERATELY - ADDED AFTER 10/26/2021)**	1
8	1-861-010032-07	WASHER,FLAT 1/4 ZP **(SOLD SEPERATELY)**	2
9	3F843-010034	FI VALVE RIDE HEIGHT CONTROL **(INCLUDES ITEMS 5 & 10)**	1
10	481-00-225	LINKAGE (18-1/4" LONG ROD) **(CUT TO FIT)** **(INCLUDED WITH ITEM 9)**	1

IMPORTANT: When ordering a complete Axle & Beam Assembly, call and provide the Trailer VIN Number to identify the proper replacement.



View of RLU-228-3.5, 12.25 x 7.5 Drum Brakes

IMPORTANT: When ordering a complete Axle & Beam Assembly, call and provide the Trailer VIN Number to identify the proper replacement.



View of RLU-228-5.5, 16.5 x 7 Drum Brakes

Figure 2-32: Axle Suspension, RLU-228, 12.25 & 16.5 (1 of 2)

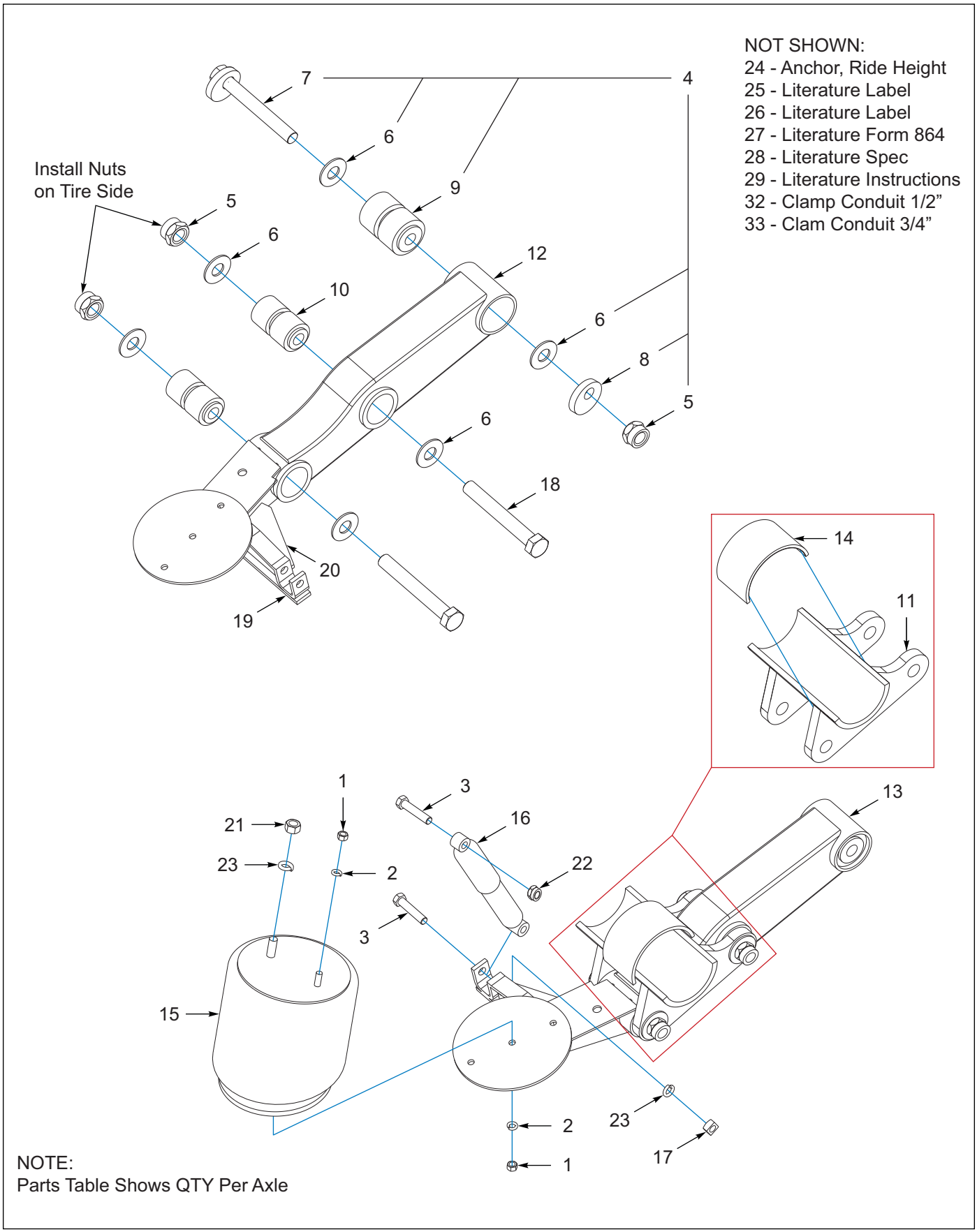


Figure 2-33: Axle Suspension, RLU-228, 12.25 & 16.5 (2 of 2)

AXLE SUSPENSION, RLU-228, 12.25 & 16.5

ITEM	PART NUMBER	DESCRIPTION	QTY
	102361	SUSPENSION,BEAM RLU-228 **(INCLUDES ITEMS 5-6, 9-14, 18-20)**	- -
	102363	SUSPENSION,ADJ RLU-228-3.5 **(INCLUDES ITEMS 1-9, 15-17, 18-29) (12.25 X 7.5 BRAKES)**	- -
	102364	SUSPENSION,ADJ RLU-228-5.5 **(INCLUDES ITEMS 1-9, 15-17, 18-29) (16.5 X 7 BRAKES)**	- -
1	1-512-010007-09	NUT, HEX 1/2-13 GR2 ZP	4
2	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
3	105408	SCREW HXCP,3/4-10X3-1/2 GR8	4
4	109533	ALIGNMENT BLOCK ASSY#48100294 **(KIT INCLUDES ITEMS 5-9)**	1
5	111008	NUT LOCK 1-1/8-7 NEWAY **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	6
6	111010	WASHER FLAT NEWAY 90036177 **(INCLUDED WITH ITEM 4, INCLUDES 2 EACH)**	12
7	129005	ALIGN BLOCK 90508019 **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
8	129006	ALIGN BLOCK NON-WELD 90008238 **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
9	900-08-139	BUSHING NEWAY AR-45 SUSPENSIO **(INCLUDED WITH ITEM 4, INCLUDES 1 EACH)**	2
10	111011	RUBBER BUSH NEWAY 90008149	4
11	111012	AXLE ADAPTER NEWAY 90001200	2
12	111013	BEAM LH NEWAY 90516600	1
13	111014	BEAM RH NEWAY 90516601	1
14	111015	SAFETY STRAP NEWAY 90025288	2
15	905-57-129	SPRING AIR BAG AR-45 **(12.25 X 7.5 BRAKES)**	2
15	111016	AIR SPRING NEWAY 90557159 **(16.5 X 7 BRAKES)**	2
16	900 45 040	SHOCK ABSORBER AR93 **(12.25 X 7.5 BRAKES)**	2
16	111017	SHOCK NEWAY 90044642 **(16.5 X 7 BRAKES)**	2
17	111022	NUT,SQ 3/4-10 NEWAY 93400367	2
18	111023	SCREW 1-1/8-7 NEWAY 93201051	4
19	126900	BRACKET BTM SHOCK ARU93	2
20	221602	GUSSET SHOCK LOWER TRL	2
21	934 00 149	HEX NUT 3/4-16 NEWAY AR-75-9	2
22	934-00-492	LOCK NUT 3/4-10	2
23	936 00 077	LOCK WASHER 3/4	6
24	111018	ANCHOR,RIDE HT NEWAY 90054038 **(NOT SHOWN)**	1
25	- - - - -	LITERATURE LABEL **(NOT SHOWN)**	1
26	- - - - -	LITERATURE LABEL **(NOT SHOWN)**	1
27	- - - - -	LITERATURE FORM 864 **(NOT SHOWN)**	1
28	- - - - -	LITERATURE SPEC **(NOT SHOWN)**	1
29	- - - - -	LITERATURE INSTRUCTIONS **(NOT SHOWN)**	1
30	- - - - -	AXLE & BEAM ASSEMBLY **(12.25 X 7.5 BRAKES) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
31	- - - - -	AXLE & BEAM ASSEMBLY **(16.5 X 7 BRAKES) (VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
32	3-181-010034-1	CLAMP CONDUIT STEEL 1/2 **(NOT SHOWN)**	6
33	3-181-010034-2	CLAMP CONDUIT STEEL 3/4 **(NOT SHOWN)**	4

Table provided for general use.

NOTES:

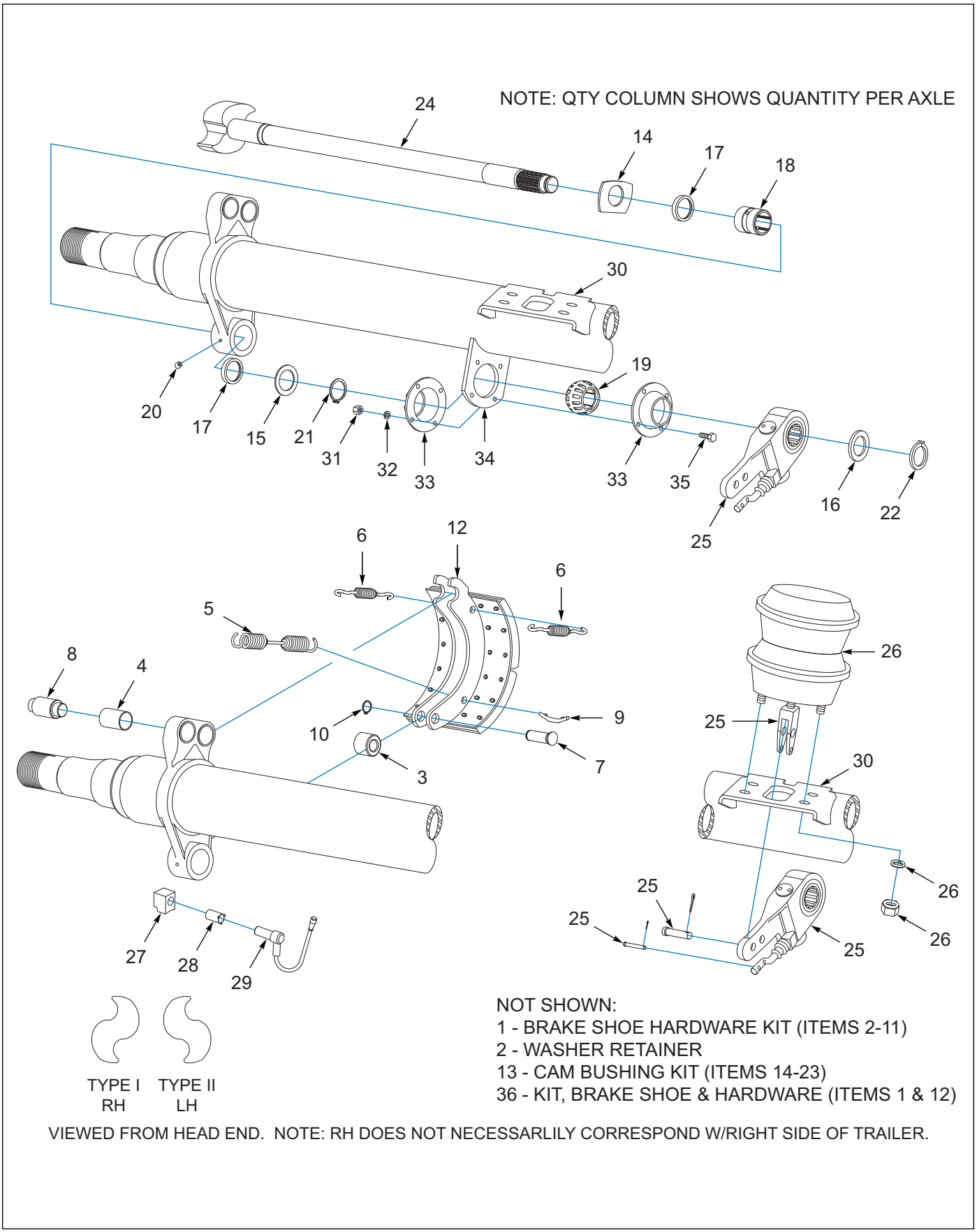


Figure 2-34: Axle 12.25 x 7.5 Drum Brakes, Dexter

AXLE 12.25 x 7.5 DRUM BRAKES, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
	115709	AXLE 77 12.25X7.5 SER BK 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	212378	AXLE 70.5 12.25SPG 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 136202 AFTER 06/16/2018)**	- -
	212381	AXLE 77 12.25SPG 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)(REPLACED 115704 &136203 AFTER 06/16/2018)**	- -
1	K71-460-00	BRAKESHOE HDW KIT PQ BRKS DEX **(INCLUDES ITEMS 2-11) (INCLUDED WITH ITEM 36)**	2
2	403149	WASHER RETAINER **(NOT SHOWN) (ITEM 1 INCLUDES 2 EACH)**	4
3	204108-001	ROLLER **(ITEM 1 INCLUDES 2 EACH)**	4
4	014-068-00	BUSHING-SPIDER ANCHOR PIN DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
5	208106	SPRING BRAKE RETRACT **(ITEM 1 INCLUDES 1 EACH)**	2
6	046-097-00	SPRING-BRAKE SHOE KEEPER DEXTR **(ITEM 1 INCLUDES 2 EACH)**	4
7	205107-001	BRAKE SHOE PIN STANDARD **(ITEM 1 INCLUDES 2 EACH)**	4
8	056-017-00	ANCHOR PIN-BRAKE SHOE DEXTER **(ITEM 1 INCLUDES 2 EACH)**	4
9	056-018-00	RETAINER-RETRACTOR SPRING DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
10	214102	ROLLER RETAINER **(ITEM 1 INCLUDES 2 EACH)**	4
11	- - - - -	INSTRUCTION SHEET **(NOT SHOWN) (ITEM 1 INCLUDES 1 EACH)**	1
12	- - - - -	SHOE LINING QUICK CHG ASSY **(INCLUDED WITH ITEM 36)**	4
13	K71-101-00	CAM SHAFT REPAIR KIT PQ BRAKES **(I KIT PER BRAKE) (INCLUDES ITEMS 14-23)**	2
14	005-074-00	WASHER D-CAM DEXTER **(ITEM 13 INCLUDES 1 EACH)**	2
15	403149	WASHER RETAINER **(ITEM 13 INCLUDES 2 EACH)**	2
16	113819	CAMSHAFT WASHER 28 SPLINE **(ITEM 13 INCLUDES 1 EACH)**	2
17	408101-001	SPIDER SEALR **(ITEM 13 INCLUDES 2 EACH)**	4
18	405129	SPIDER BUSHING **(ITEM 13 INCLUDES 1 EACH)**	2
19	405999-001	NYLON BUSHING CAM BRKT ASSY **(ITEM 13 INCLUDES 1 EACH)**	2
20	061-003-00	GREASE FITTING-SPIDER DEXTER **(ITEM 13 INCLUDES 1 EACH)**	2
21	214104	CAM LOCK RING **(ITEM 13 INCLUDES 2 EACH)**	2
22	069-078-00	SNAP RING **ITEM 13 INCLUDES 1 EACH)**	2
23	- - - - -	INSTRUCTION SHEET **(NOT SHOWN) (ITEM 13 INCLUDES 1 EACH)**	1
24	034-188-03	CAMSHAFT LH 28SPLINE 22-5/16 **(FOR 136202, 138197, 212378)**	1
24	034-189-03	CAMSHAFT RH 28SPLINE 22-5/16 **(FOR 136202, 138197, 212378)**	1
24	136991	CAM LH 28 SPLINE 23-3/8 **(FOR 115709, 138198, 212381)**	1
24	136992	CAM RH 28 SPLINE 23-3/8 **(FOR 115709, 138198, 212381)**	1
25	127777	SLACK ADJ AUTO 12-1/4X7-1/2 **(INCLUDES CLEVIS, PINS, GAGE & INSTRUCTIONS)**	2
26	138719	SPRING BRAKE TYPE 30/30	2
27	103805	ABS SENSOR BLOCK	2
28	101849	ABS SENSOR SPRING CLIP	2
29	101847	ABS SENSOR CABLE-.4M (1FT) **(SENSOR & CABLE ASSEMBLY)**	2
30	034-048-00	BRACKET AIR CHAMBER MTG	2
31	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8

AXLE 12.25 x 7.5 DRUM BRAKES, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
32	005-079-00	LOCK WASHER, DEXTER	8
33	034-032-00	RETAINING PLATE-CAMSHAFT DEXTR **(EACH HALF SOLD SEPERATELY)**	4
34	034-031-00	BRACKET ASSY-CAMSHAFT SUPT	2
35	007-139-00	BOLT RET CAM BUSHING DEXTER	8
36	138054	KIT,BRAKE, 12 1/4X7 1/2 **(1 KIT PER AXLE) (INCLUDES ITEMS 1, 2 EACH & ITEM 12, 4 EACH)**	1

Table provided for general use.

NOTES:

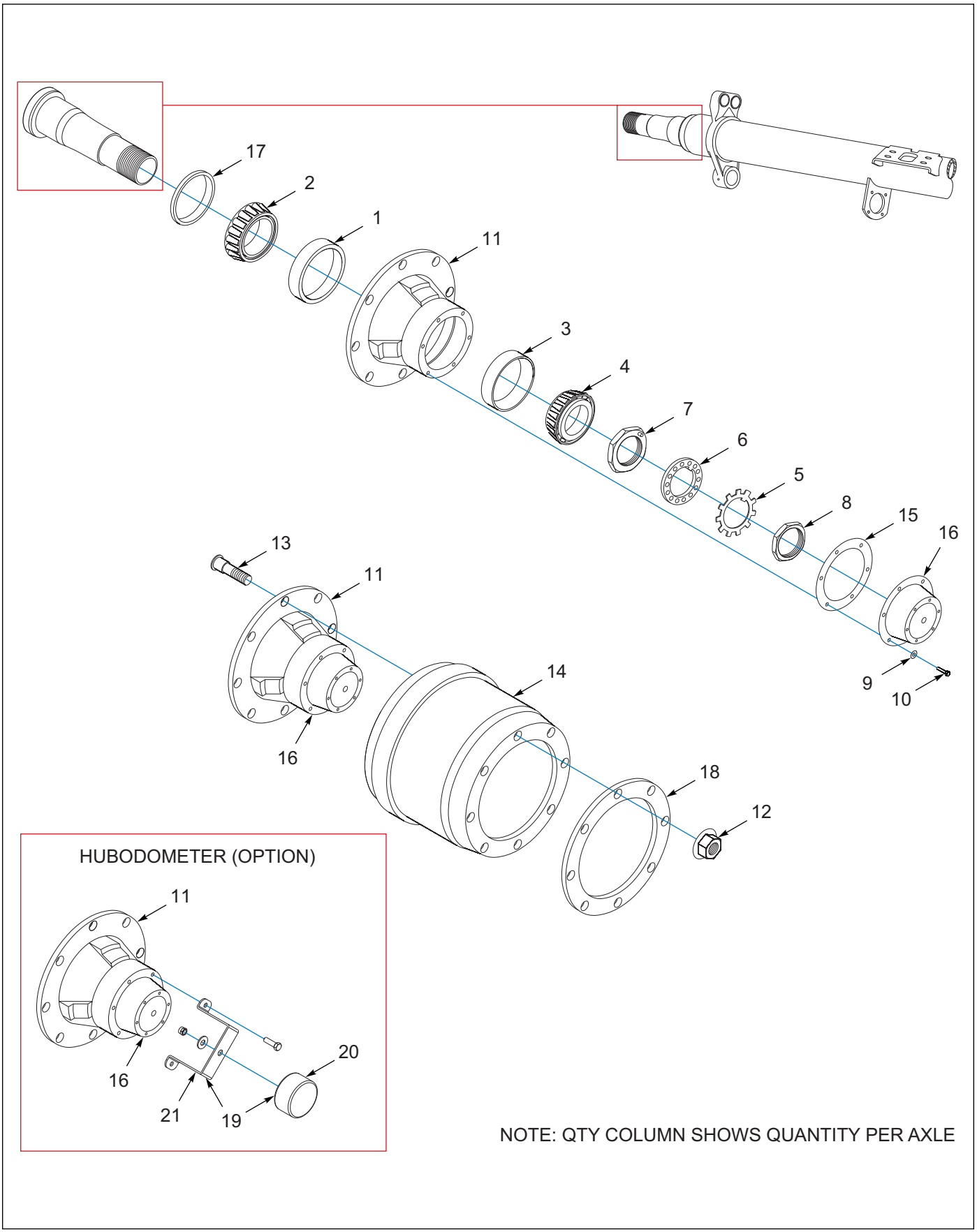


Figure 2-35: Axle 12.25 x 7.5 Drum and Hub Assembly, Dexter

AXLE 12.25 x 7.5 DRUM AND HUB ASSEMBLY, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
	- - - - -	AXLE WELDMENT 2512 SPRING **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
1	HM218210	BEARING CUP,INNER-DEXTERD225K **(ITEM 11 INCLUDES 1 EACH)**	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP **(ITEM 11 INCLUDES 1 EACH)**	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W	2
6	105107	LOCK WASHER	2
7	103103-002	INNER SPIN NUT **(3-13/16" SOCKET)**	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER **(3-1/4" SOCKET)**	2
9	1-861-010034-10	WASHER,LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	112492	HUB 8 BOLT ABS 100 TOOTH **(INCLUDES ITEMS 1, 3, 13 AND 100 TOOTH TONE RING)**	2
12	179933	NUT, HEX M22X1.5 (1.31 HEX) **(1-5/16" SOCKET)**	16
12	179955	NUT,FLANGE MM22X1.5 (1.50HEX) **(1-1/2" SOCKET)**	16
13	101162	STUD - DISC PILOT HOLE WHL **(2.47 STANDOUT) (BEFORE 06/16/2018)**	16
13	113536	STUD RH 22MM 3.5 STANDOUT **(3.5 STANDOUT) (AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS) (ITEM 11 INCLUDES 8 EACH)**	16
14	63680	DRUM, BRAKE	2
15	3067	GASKET HUB	2
16	4009	BOLT ON HUB CAP W/PLUG **(OIL CAP INCLUDES VENT PLUG AND ITEM 15, 1 EACH)**	2
17	3-659-010012	SEAL, AXLE	2
18	109214	SPACER,WHEEL 17.5 HUB PILOT **(STEEL SPACER USED BETWEEN INNER AND OUTER WHEELS)**	2
18	114619	WHEEL GUARD 8 HOLE 275MM BC **(NYLON SPACER USED TO SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)**	2
19	142549	HUBODOMETER INSTALL 10R/17.5 **(612RPM) (19A OPTION INCLUDES ITEMS 20A, 21)**	1
19	142550	HUBODOMETER INSTALL 235/17.5 **(650RPM) (19B OPTION INCLUDES ITEMS 20B, 21)**	1
20	142546	HUBODOMETER 612 RPM **(20A OPTION)**	
20	142547	HUBODOMETER 650 RPM **(20B OPTION)**	1
21	197606	BRACKET HUBODOMETER 4"H TIS **(OPTION)**	1

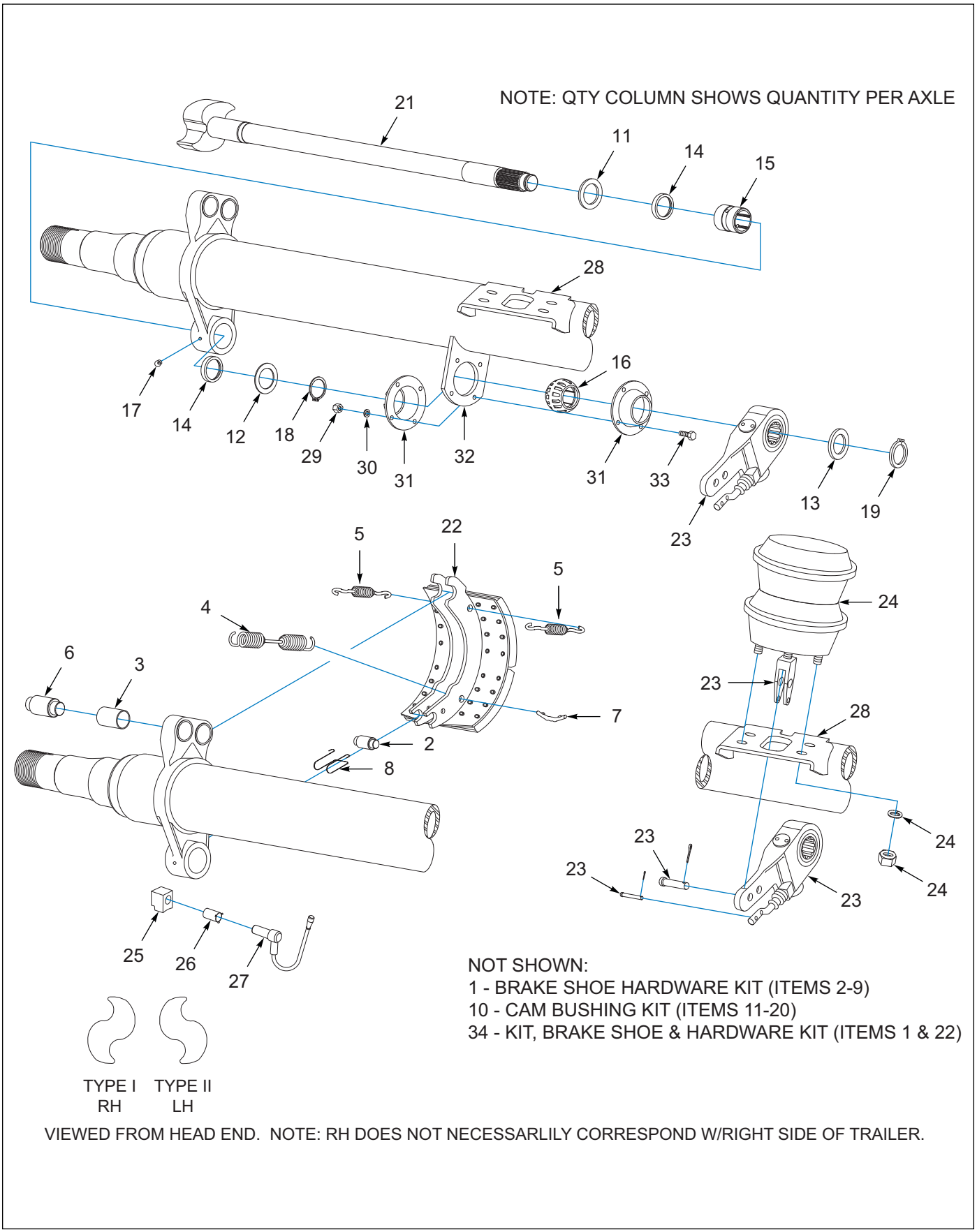


Figure 2-36: Axle 16.5 x 7 Drum Brakes, Dexter

AXLE 16.5 x 7 DRUM BRAKES, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
	138958	AXLE 69 16.5X7SER BK 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	138959	AXLE 75 16.5X7SER BK 25K TIS **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
	212418	AXLE 69, 16.5 X 7 SPG BRK - 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 138203 AFTER 06/16/2018)**	- -
	212421	AXLE 75, 16.5 X 7 SPG BRK - 25K **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE) (REPLACED 115715 & 138955 AFTER 06/16/2018)**	- -
1	K71-136-00	BRAKE SHOE H KIT 16.5X7 DXTR **(INCLUDES ITEMS 2-9) (INCLUDED WITH ITEM 34)**	2
2	014-065-00	ROLLER BRAKE SHOE(KNURLED)DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
3	014-068-00	ANCHOR PIN-BRAKE SHOE DEXTERR **(ITEM 1 INCLUDES 2 EACH)**	4
4	046-096-00	SPRING BRAKE SHOE-ORANGE DEXTR **(ITEM 1 INCLUDES 1 EACH)**	2
5	046-097-00	SPRING-BRAKE SHOE KEEPER DEXTR **(ITEM 1 INCLUDES 2 EACH)**	4
6	056-017-00	ANCHOR PIN-BRAKE SHOE DEXTER **(ITEM 1 INCLUDES 2 EACH)**	4
7	056-018-00	RETAINER-RETRACTOR SPRING DXTR **(ITEM 1 INCLUDES 2 EACH)**	4
8	071-122-00	RETAINER BRAKE SHOE ROLLER **(ITEM 1 INCLUDES 2 EACH)**	4
9	- - - - -	INSTRUCTIONS **(NOT SHOWN) (ITEM 1 INCLUDES 1 EACH)**	1
10	138090	BUSHING KIT **(PER BRAKE) (INCLUDES ITEMS 11-20)**	2
11	005-096-00	WASHER CAMSHAFT DEXTER **(ITEM 10 INCLUDES 1 EACH)**	2
12	005-097-00	WASHER CAM SHAFT DEXTER **(ITEM 10 INCLUDES 2 EACH)**	2
13	113819	CAMSHAFT WASHER 28 SPLINE **(ITEM 10 INCLUDES 1 EACH)**	2
14	408101-001	SPIDER SEAL **(ITEM 10 INCLUDES 2 EACH)**	4
15	405129	SPIDER BUSHING **(ITEM 10 INCLUDES 1 EACH)**	2
16	405999-001	BUSHING, CAMSHAFT SUPPORT **(ITEM 10 INCLUDES 1 EACH)**	2
17	061-003-00	GREASE FITTING-SPIDER DEXTER **(ITEM 10 INCLUDES 1 EACH)**	2
18	214104	CAM LOCK RING **(ITEM 10 INCLUDES 2 EACH)**	2
19	069-078-00	SNAP RING **(ITEM 10 INCLUDES 1 EACH)**	2
20	- - - - -	INSTRUCTIONS **(NOT SHOWN) (ITEM 10 INCLUDES 1 EACH)**	1
21	034-192-05	CAMSHAFT, 22-5/8” LH **(FOR 138203, 138958, 212418)**	1
21	034-193-05	CAMSHAFT, 22-5/8” RH **(FOR 138203, 138958, 212418)**	1
21	137461	CAMSHAFT, 25” LH **(FOR 138955, 138959, 212421)**	1
21	137485	CAMSHAFT, 25” RH **(FOR 138955, 138959, 212421)**	1
22	040-180-00	BRAKE SHOE & LINING DEXTER **(INCLUDED WITH ITEM 34)**	4
23	139383	SLACK ADJUSTER,STR AUTO 28SPL **(INCLUDES CLEVIS, PINS, GAGE, & INSTRUCTIONS)**	2
24	126292	CHAMBER 30-30 7.00 PUSHROD	4
25	103805	ABS SENSOR BLOCK	2
26	101849	ABS SENSOR SPRING CLIP	2
27	101847	ABS SENSOR CABLE-.4M (1FT) **(SENSOR & CABLE ASSEMBLY)**	2
28	034-048-00	BRACKET AIR CHAMBER MTG	2
29	1-512-010007-05	NUT, HEX 1/4-20 GR2 ZP	8

AXLE 16.5 x 7 DRUM BRAKES, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
30	005-079-00	LOCK WASHER, DEXTER	8
31	034-032-00	RETAINING PLATE-CAMSHAFT DEXTR **(EACH HALF SOLD SEPERATELY)**	4
32	034-047-00	BRACKET-CAMSHAFT SUPTWELD ON **(2 PER AXLE)**	4
33	007-139-00	BOLT RET CAM BUSHING DEXTER	8
34	159001	BRAKE SHOE&HARDWARE KIT16.5X7 **(1 KIT PER AXLE)** **(INCLUDES ITEMS 1, 2 EACH & 22, 4 EACH)**	1

Table provided for general use.

NOTES:

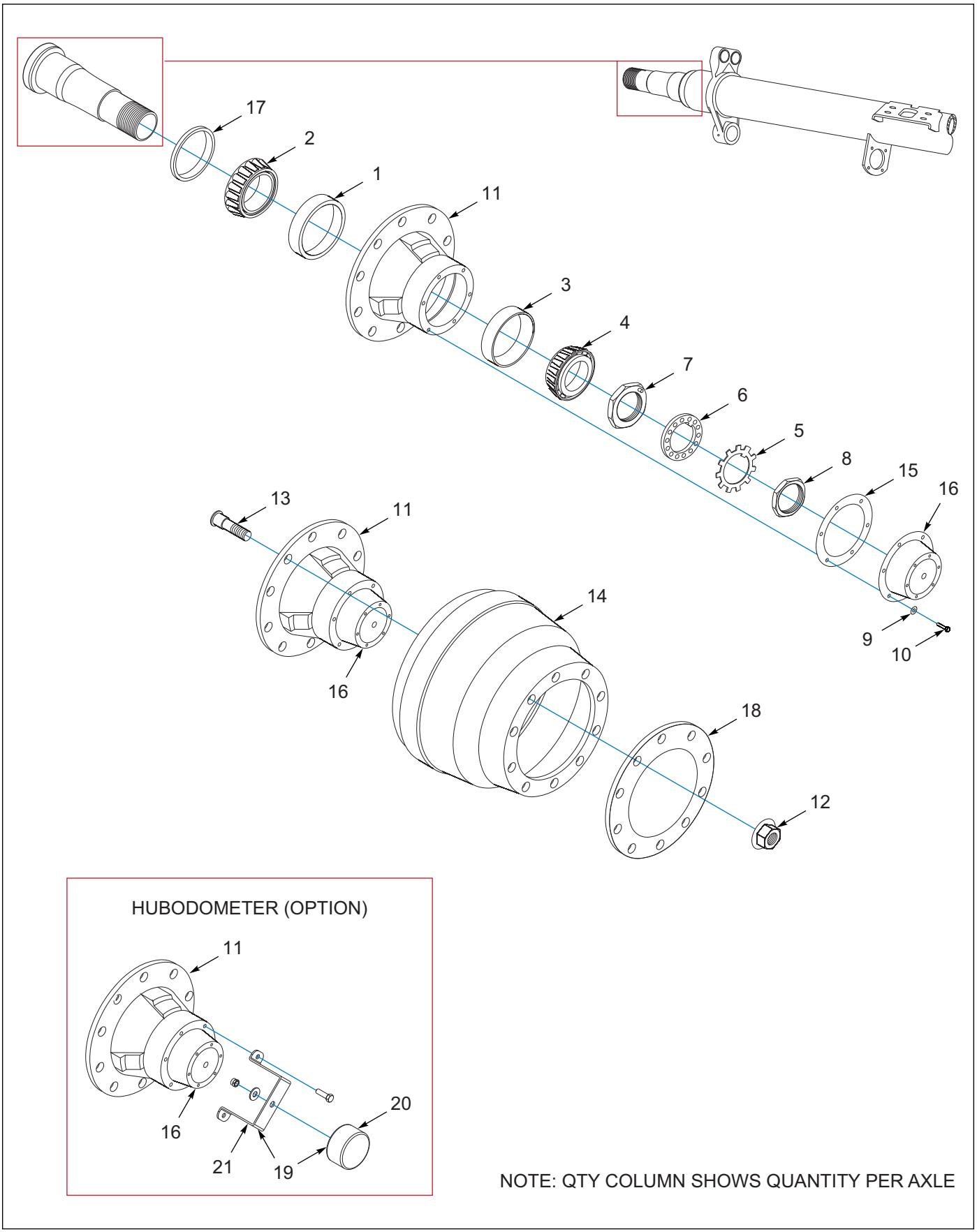


Figure 2-37: Axle 16.5 x 7 Drum and Hub Assembly, Dexter

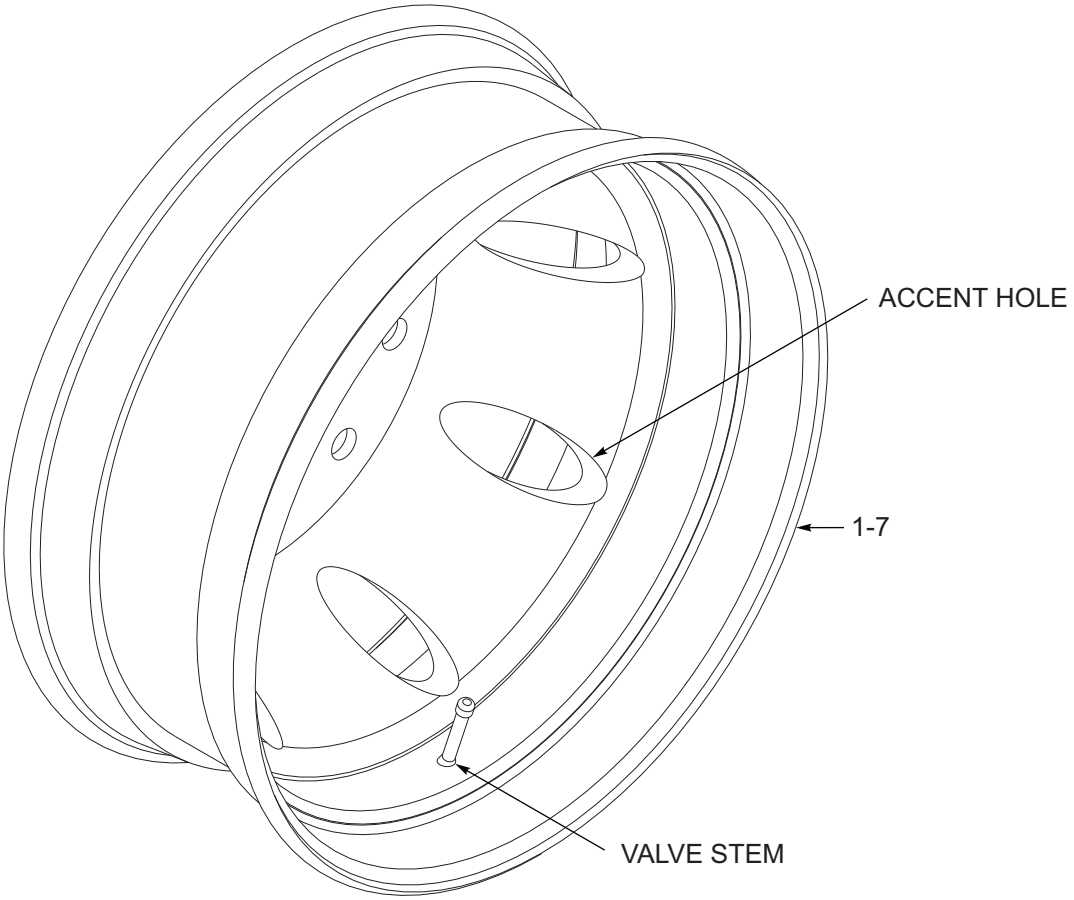
AXLE 16.5 x 7 DRUM AND HUB ASSEMBLY, DEXTER

ITEM	PART NUMBER	DESCRIPTION	QTY
	- - - - -	AXLE WELDMENT 2516 SPRING **(VIN / NIV REQUIRED, CALL FOR ASSISTANCE)**	- -
1	HM218210	BEARING CUP,INNER-DEXTERD225K **(INCLUDED WITH ITEM 11 INCLUDES 1 EACH)**	2
2	HM218248	INNER BEARING	2
3	HM212011	OUTER CUP **(INCLUDED WITH ITEM 11 INCLUDES 1 EACH)**	2
4	HM212049	OUTER BRG A19S	2
5	105106	STAR L/W	2
6	105107	LOCK WASHER	2
7	103103-002	INNER SPIN NUT **(3-13/16" SOCKET)**	2
8	006-115-00	NUT OUTER, SPINDLE, DEXTER **(3-1/4" SOCKET)**	2
9	1-861-010034-10	WASHER,LKG 5/16	12
10	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	12
11	110975	HUB FOR 103781 **(100 TOOTH TONE RING) (INCLUDES ITEMS 1, 3) (FLANGE NUTS & STUDS SOLD SEPARATELY)**	2
12	179933	NUT, HEX M22X1.5 (1.31 HEX) **(1-5/16" SOCKET)**	20
12	179955	NUT,FLANGE MM22X1.5 (1.50HEX) **(1-1/2" SOCKET)**	20
13	101162	STUD - DISC PILOT HOLE WHL **(2.47 STANDOUT) (BEFORE 06/16/2018)**	20
13	113536	STUD RH 22MM 3.5 STANDOUT **(3.5 STANDOUT) (AFTER 06/16/2018 - UNIVERSAL, STEEL / ALUMINUM WHEELS)**	20
14	110976	DRUM FOR 103781	2
15	3067	GASKET HUB	2
16	4009	BOLT ON HUB CAP W/PLUG **(OIL CAP INCLUDES VENT PLUG AND ITEM 15)**	2
17	3-659-010012	SEAL, AXLE	2
18	3-870-010107	WHEEL-GUARD,10STD 285.75MM BC **(NYLON SPACER USED TO SEPARATE STEEL RIM OR DRUM FROM ALUMINUM RIM)**	2
18	123882	SPACER,WHEEL,375X10HOLE HUB **(STEEL SPACER)**	1
19	137108	HUBODOMETER INSTL 255TIRE **(572RPM, 255/70R22.5) (OPTION INCLUDES ITEMS 20-21)**	1
20	113109	HUBODOMETER 572 RPM **(OPTION, 255/70R22.5)**	1
21	197606	BRACKET HUBODOMETER 4"H TIS	1

IMPORTANT: IF ORDERING TIRE ASSEMBLIES OR REPLACEMENT WHEELS, PROVIDE THE DEALER WITH THE TRAILER VIN NUMBER TO PROPERLY IDENTIFY ORIGINAL PARTS.

MAIN CHARACTERISTICS TABLE:

ITEM	WHEEL	STUDS	BOLT PATTERN	HUB BORE	OFFSET
1	17.5 X 6.75	8	10.827 (275 MM)	8.70 (221.1 MM)	5.55
2	17.5 X 6.75	8	10.827 (275 MM)	9.00 (228.6 MM)	5.60
3	22.5 X 7.50	10	11.25 (285.75 MM)	8.66 (220 MM)	6.45
4	22.5 X 7.50	10	11.25 (285.75 MM)	8.78 (223 MM)	6.44
5	22.5 X 8.25	10	11.25 (285.75 MM)	8.66 (220 MM)	6.59
6	22.5 X 8.25	10	11.25 (285.75 MM)	8.66 (220 MM)	6.60
7	22.5 X 8.25	10	11.25 (285.75 MM)	8.66 (220 MM)	6.62



8 ACCENT HOLE WHEEL SHOWN AS REFERENCE:

NOT SHOWN: #8 VALVE STEM EXTENSION (OPTION)

Figure 2-38: Wheels

WHEELS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	100402	WHEEL POL ALUM PILOT17.5X6.75 **(USES TR-553C VALVE STEM) (8 ACCENT HOLES, POLISHED, ALUMINUM) (ALCOA, ACCURIDE)**	1
1	112047	WHEEL AL PILOT 17.5X6.75 MACH **(USES 100401 VALVE STEM) (8 ACCENT HOLES, MACHINED, ALUMINUM)**	1
1	232809	WHEEL AL PILOT 17.5X6.75 (POL) **(USES 238615 VALVE STEM) (8 ACCENT HOLES, POLISHED, ALUMINUM) (FLEETSIDE)**	1
1	223938	WHEEL AL PILOT 17.5X6.75 POL **(USES 236462 VALVE STEM) (10 ACCENT HOLES, POLISHED, ALUMINUM) (FLEETSIDE)**	1
2	224322	WHEEL AL PLT MT 17.5X6.75 D-BT **(USES 100401 VALVE STEM) (8 ACCENT HOLES, POLISHED, ALUMINUM) (DURA-BRIGHT)**	1
2	230730	WHEEL DISC PLT MNT 17.5X6.75 **(USES TR500 VALVE STEM) (4 HAND HOLES, PAINTED BLACK, STEEL)**	1
2	3-870-010097	WHEEL,DISC,PILOT MT 17.5X6.75 **(USES TR500 VALVE STEM) (4 ACCENT HOLES, PAINTED WHITE, STEEL)**	1
3	139600	WHEEL,AL DURA BRITE255/70R **(USES TR545D VALVE STEM) (10 ACCENT HOLES, POLISHED, ALUMINUM)**	1
3	3-870-010106	WHEEL,AL,PILOT MT22.5X7.5POL **(USES TR545D VALVE STEM) (10 ACCENT HOLES, POLISHED, ALUMINUM)**	1
3	3-870-010116	WHL,ALM,PLT MT 22.5X7.50 **(USES TR545D VALVE STEM) (10 ACCENT HOLES, UNPOLISHED, ALUMINUM)**	1
4	3-870-010104	WHEEL,DISC PILOT MT 22.5X7.50 **(USES TR500 VALVE STEM) (5 ACCENT HOLES, PAINTED WHITE, STEEL)**	1
5	111416	WHEEL ALUM PLT 22.5X8.25 POL **(USES TR545D VALVE STEM) (8 ACCENT HOLES, POLISHED, ALUMINUM)**	1
5	111417	WHEEL,ALUM,PLT 22.5X8.25 MACH **(USES TR545D VALVE STEM) (8 ACCENT HOLES, MACHINED ALUMINUM)**	1
5	134757	WHEEL AL PLT22.5X8.25 POL CTG **(USES TR545D VALVE STEM) (8 ACCENT HOLES, POLISHED COATING, ALUMINUM)**	1
6	150346	WHEEL,ALUM,DURA-BRT22.5X8.25 **(USES TR545D VALVE STEM) (8 ACCENT HOLES, POLISHED, ALUMINUM)**	1
7	111652	WHEEL,PILOT MT 22.5X8.25, PP **(USES TR573D VALVE STEM) (10 HAND HOLES, SPECIFY BLACK OR SILVER STEEL)**	1
7	3-870-010110	WHEEL,DISC,PILOT MT 22.5X8.25 **(USES TR573 VALVE STEM) (5 ACCENT HOLE, PAINTED WHITE, STEEL)**	1
8	1-843-010014	VALVE EXTENSION,STEM **(OPTIONAL, RIGID STRAIGHT 3" LONG, NOT USED WITH TIRE INFLATION SYSTEMS) (NOT SHOWN)**	1

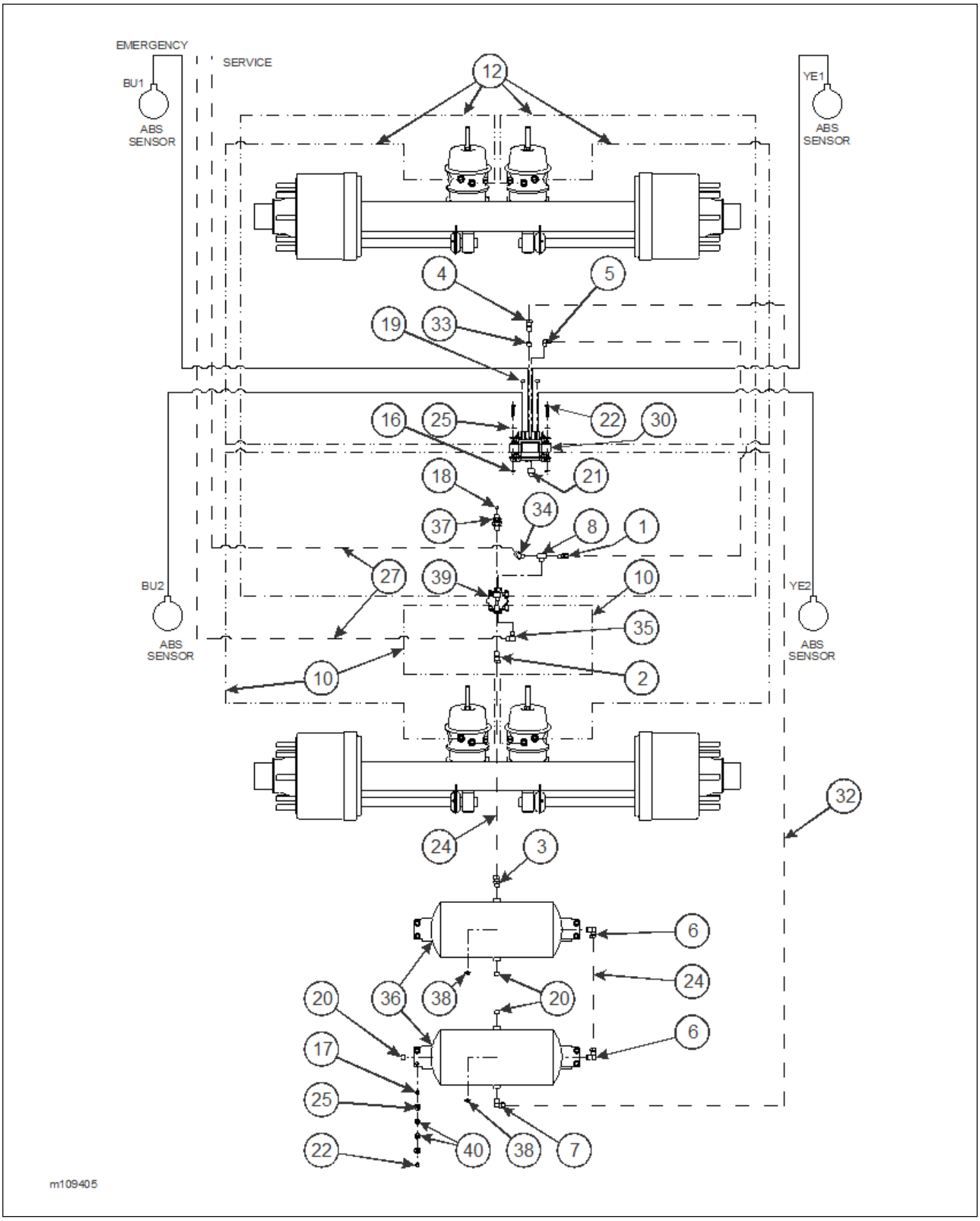


Figure 2-39: Spring Air Brake System w/ ABS (Tandem Axle)

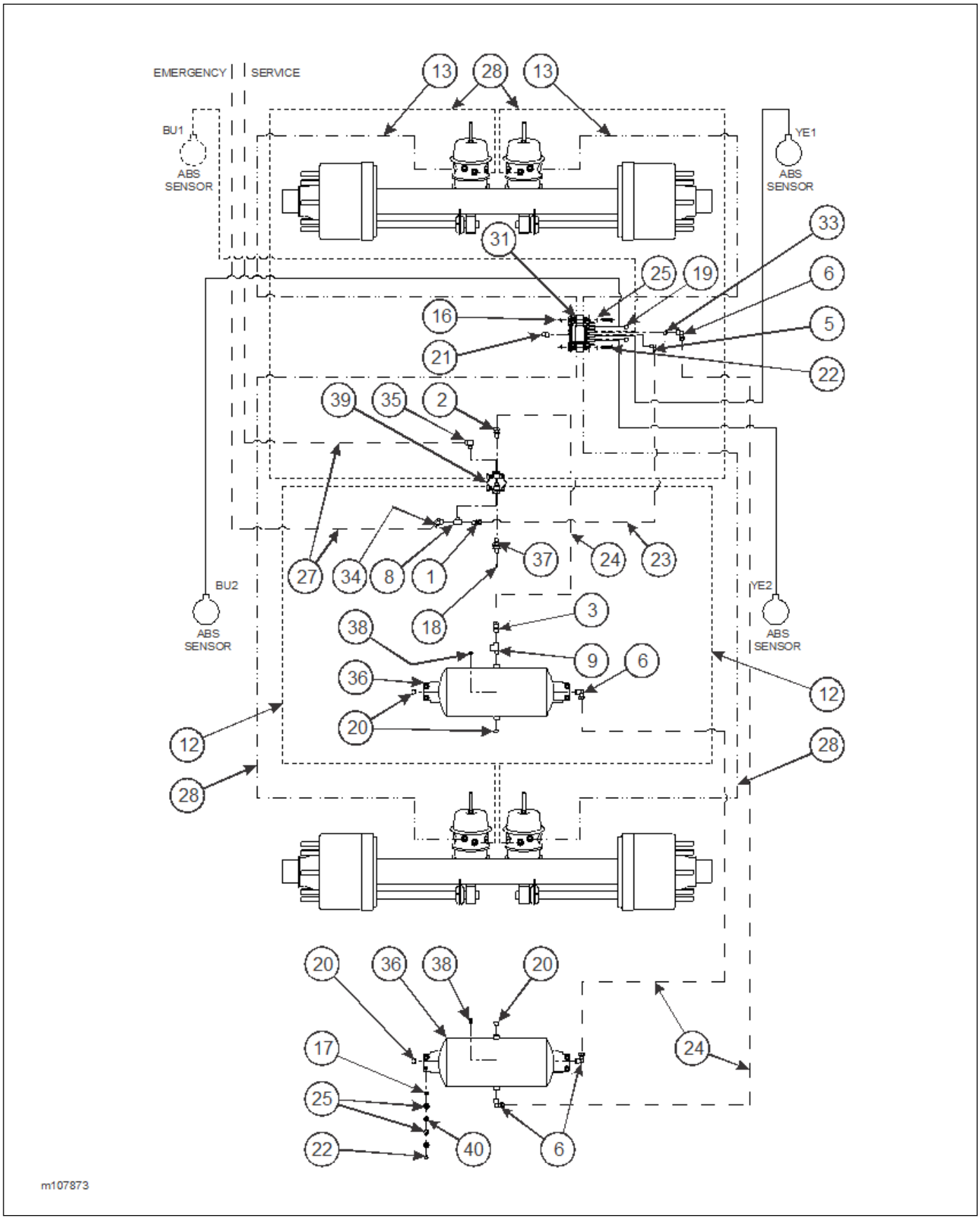


Figure 2-40: Spring Air Brake System w/ ABS (Spread Axle)

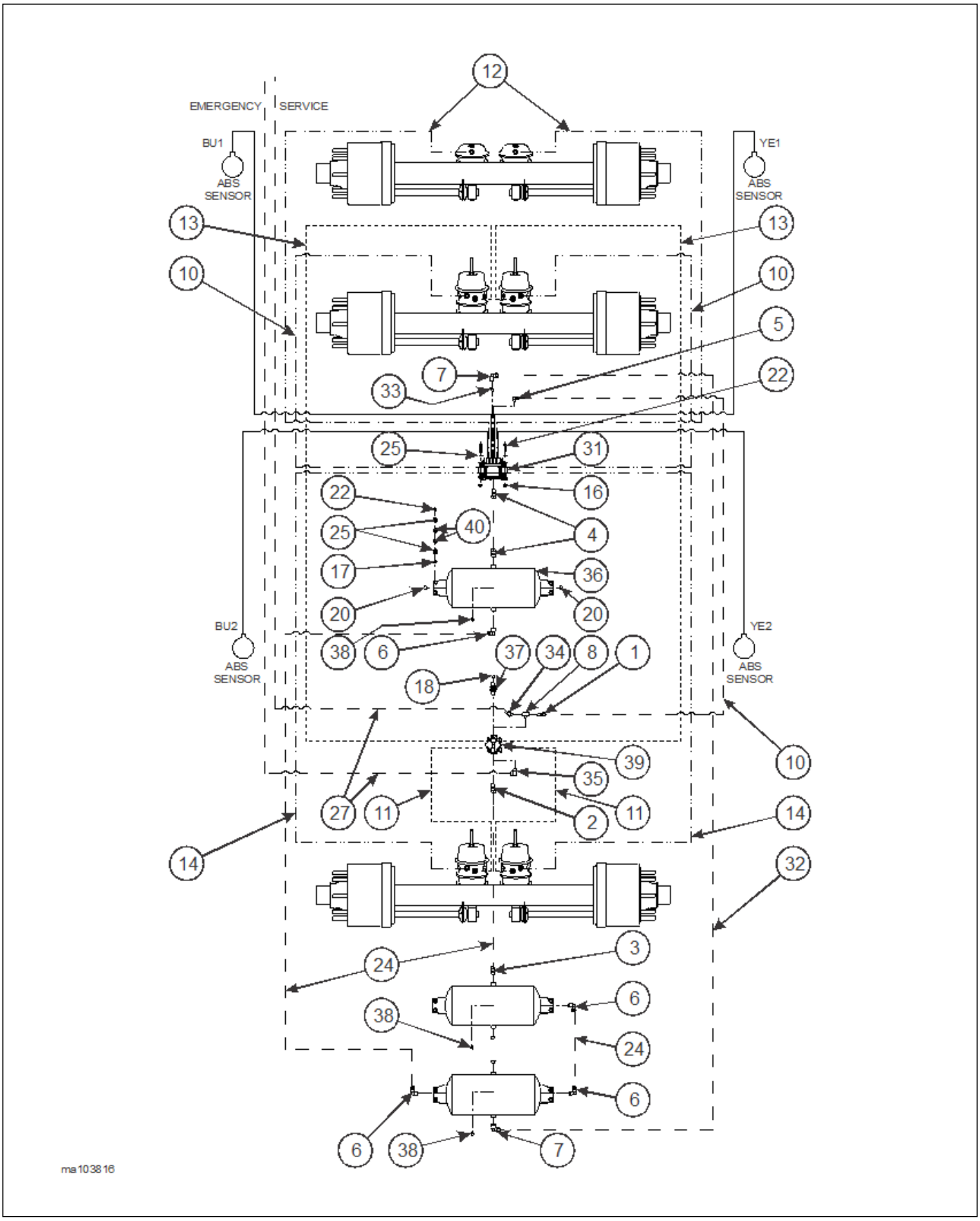


Figure 2-41: Spring Air Brake System w/ ABS (Triple Axle)

SPRING AIR BRAKE SYSTEM W/ ABS

ITEM	PART NO.	DESCRIPTION	QTY.		
	109405	AIR SYSTEM U/C, ABS **(TANDEM)**	*		
	107873	AIR SYSTEM U/C, ABS **(SPREAD)**		*	
	103816	AIR SYSTEM U/C, ABS **(TRIPLE)**			*
1	1-297-010007-12	FITTING AIR	1	1	1
2	1-297-010007-15	FITTING AIR	1	1	1
3	1-297-010007-16	FITTING AIR	1	1	1
4	1-297-010007-18	FITTING, AIR 5/8	1	- -	2
5	1-297-010008-18	FITTING, AIR 90	1	1	1
6	1-297-010008-24	FITTING 90 AIR	2	4	4
7	1-297-010008-26	FITTING, AIR 90	1	- -	2
8	1-297-010017-03	FITTING AIR M/BR TEE	1	1	1
9	1-297-010018-04	FITTING, AIR BRASS PIPE ST TEE	- -	REF	- -
10	1-384-010038024	HOSE AIR	4	- -	2
11	1-384-010038038	HOSE, AIR 3/8 X 38	- -	- -	2
12	1-384-010038060	HOSE AIR	4	2	2
13	1-384-010038076	HOSE, AIR 3/8 X 76	- -	2	2
14	1-384-010038084	HOSE, AIR 3/8 X 84”	- -	- -	2
15	1-394-010001	HOSE ABRASION SLEEVE X 2	2	2	2
16	1-510-010001	NUT FLANGE LOCK 3/8-16	2	2	2
17	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	8	8	12
18	1-560-010002-02	PIPE PLUG 1/4	1	1	1
19	1-560-010002-03	PIPE PLUG 3/8	2	2	- -
20	1-560-010002-04	PIPE PLUG 1/2	3	4	4
21	1-560-010002-05	PIPE PLUG 3/4-14	1	1	- -
22	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10	10	14
23	1-833-010002	TUBING, NYLON 3/8	AR	AR	AR
24	1-833-010003	TUBING NYLON 1/2	AR	AR	AR
25	1-861-010032-11	WASHER FLAT 3/8W	18	18	26
27	100949	HOSE AIR 3/8 X 222 W/ 3/8 ENDS	2	2	2
28	103738	HOSE, AIR 3/8 X 100	- -	4	- -
29	103817	CLAMP HOSE (NOT SHOWN)	1	8	2
30	114584	BRAKE KIT, ABS 4S/2M **(SEE PAGE 2-85) (BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)**	1	- -	- -
31	114586	BRAKE KIT, ABS 4S/2M **(SEE PAGE 2-85) (AFTER 12/08/2021 - REPLACED 114584)**	- -	1	1
32	117304	TUBING, NYLON 5/8	AR	AR	AR
33	118-2659-9	BUSHING 1/2 X 3/4	1	1	1
34	2088-6-6S	ADAPTER 45	1	1	1
35	2089-6-6S	ADAPTER 90	1	1	1
36	3-780-010002	TANK AIR	2	2	3
37	55B61	FRAME UNION	1	1	1
38	56D4	AIR TANK DRAIN COCK	2	2	3
39	758-181	VALVE RELAY EMERGENCY	1	1	1
40	805-2	STEP BUSHING	16	16	24

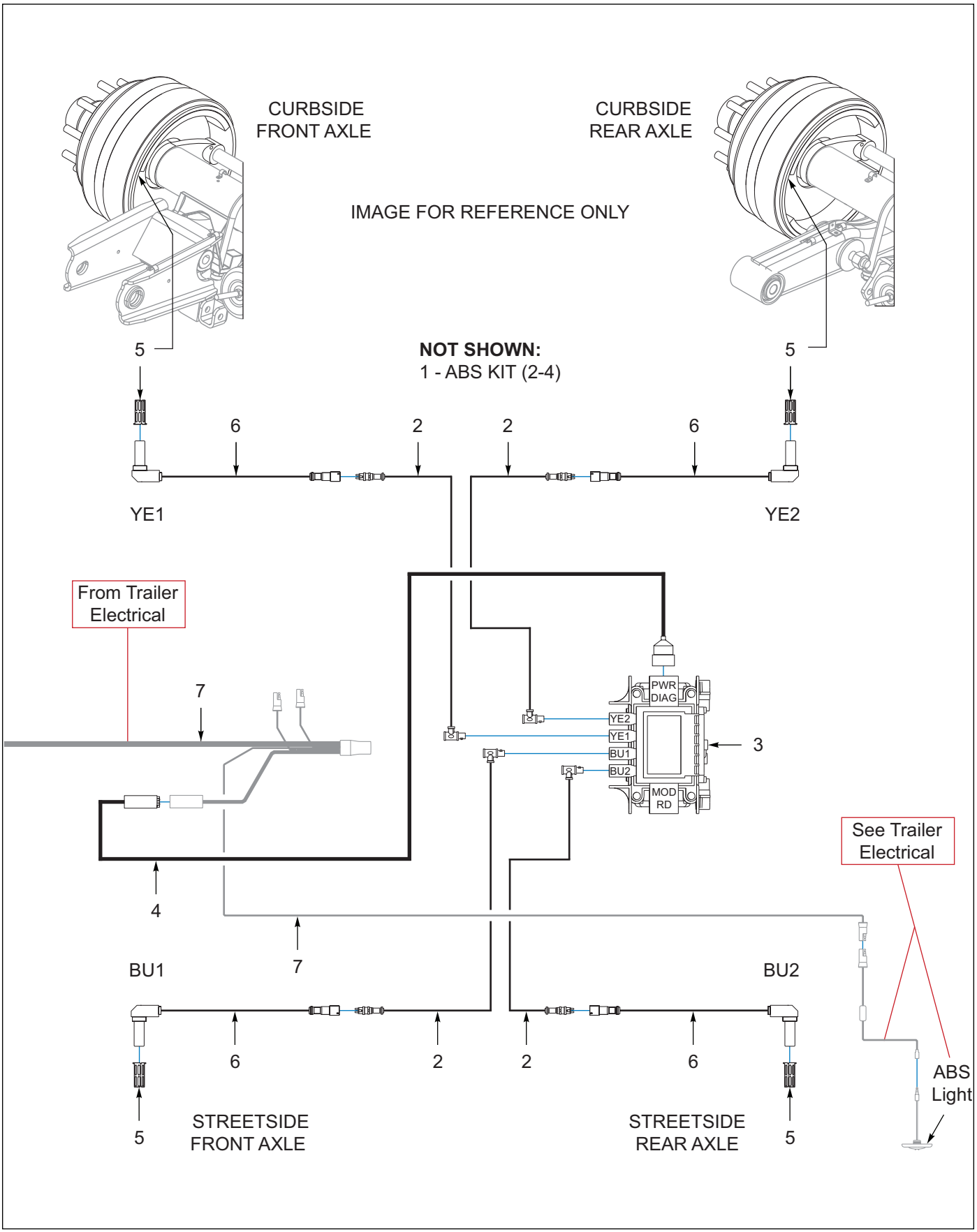


Figure 2-42: ABS Brake Kit

ABS BRAKE KIT

ITEM	PART NO.	DESCRIPTION	QTY.
1	114584	ABS KIT WABCO 4S/2M TAB **(2 AXLE)** **(INCLUDES ITEMS 2 - 101848, 3-4)** **(BEFORE 12/08/2021 - AFTER OBSOLETE USE 114586)**	- -
1	114586	ABS KIT WABCO 4S/2MTRI/SPREAD **(2 & 3 AXLE)** **(INCLUDES ITEMS 2 - 103861, 3-4)**	1
2	101848	SENSOR EXT. CABLE,1.78M,ABS **(2 AXLE - 70 INCH)** **(BEFORE 12/08/2021 - AFTER OBSOLETE USE 103861)** **(INCLUDED WITH ITEM 1, 114584)**	4
2	103861	SENSOR EXT CABLE-3M (10FT) **(2 & 3 AXLE - 118 INCH)** **(INCLUDED WITH ITEM 1, 114586)**	4
3	114588	ECU/VALVE ASSEMBLY 4S/2M **(INCLUDED WITH ITEM 1 - 114584, 114586)**	1
4	147464	POWER CABLE 4.0M **(13' FOOT)** **(INCLUDED WITH ITEM 1 - 114584, 114586)**	1
5	101849	ABS SENSOR SPRING CLIP	4
6	101847	ABS SENSOR CABLE-.4M (1FT) **(DRUM BRAKES) (1 FOOT)**	4
6	251219	ABS SNSR 0.5M STRAIGHT HALDEX **(DISC BRAKES) (1.5 FOOT)**	4
7	143103	HARNESS ECHAIN GROTE **(AFTER 03/03/2023, 12" LEAD ADDED)**	1

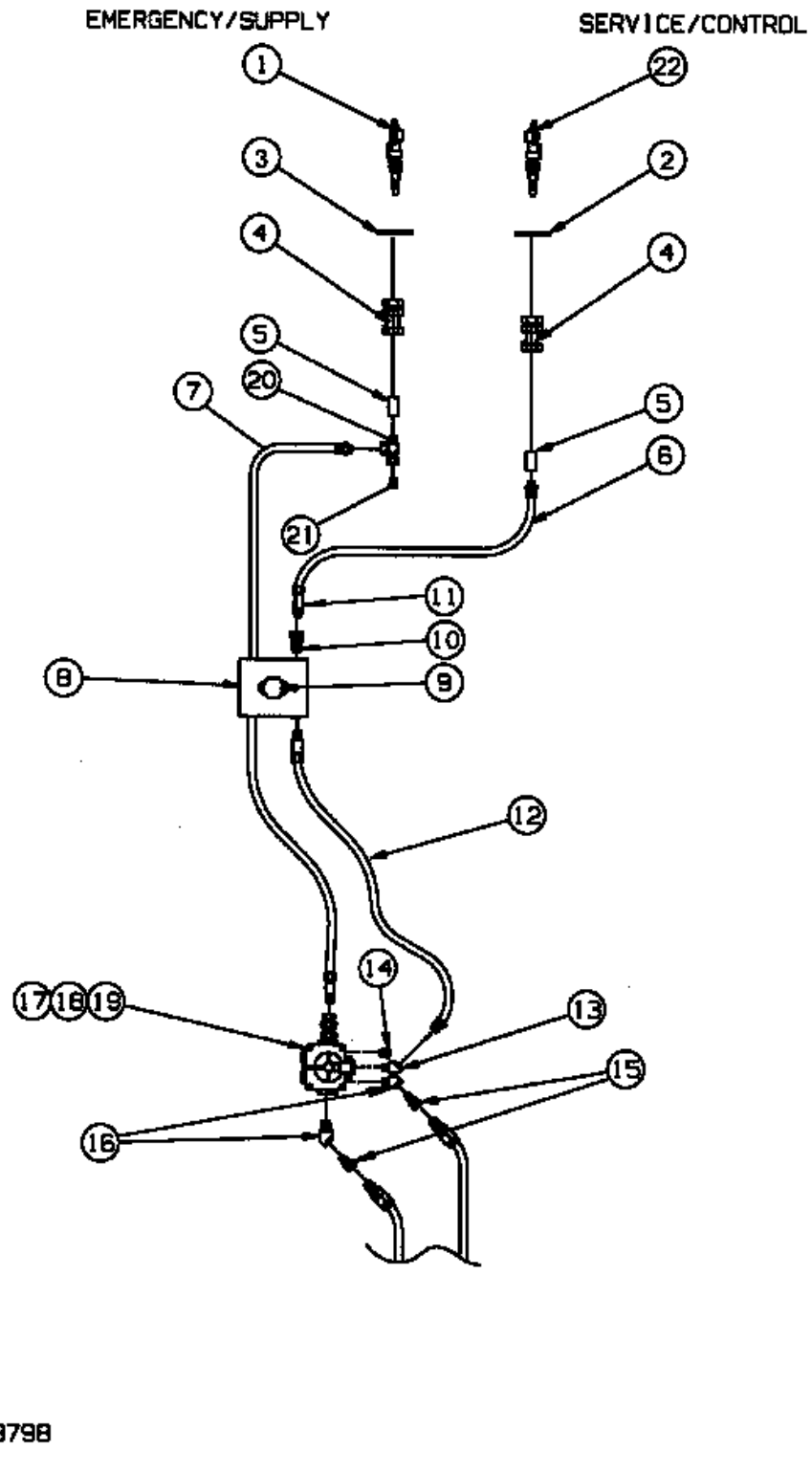


Figure 2-43: Air System, ABS

AIR SYSTEM, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
1	108801	GLADHAND RED AIR	1
2	55B61-7	TAG SERVICE LINE	1
3	55B61-6	TAG EMERGENCY LINE	1
4	55B61	FRAME UNION	2
5	1-297-010021-05	FITTING, BRS PIPE, COUPLING	2
6	1-384-010038259	HOSE ASSEMBLY 3/8 X 259	1
7	103797	HOSE, AIR 1/2 X 420 **(48')**	1
7	103773	HOSE, AIR 1/2 X 480 **(53')**	1
8	103796	CLAMP, HOSE	1
9	1-510-010001	NUT, FLANGE LOCK 3/8-16	1
10	1-297-010022-03	FITTING, AIR	1
11	1-297-010007-12	FITTING, AIR	1
12	1-833-010002	TUBING NYLON 3/8	AR
13	1-297-010013-12	FITTING, AIR 45	1
14	1-560-010002-04	PLUG, PIPE 1/2	1
15	2081-8-6S	REDUCER	2
16	2088-6-6S	ADAPTER 45	2
17	3-843-010038	VALVE, AIR RELAY	1
18	1-861-010032-06	WASHER, FLAT 1/4N	2
19	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
20	1-297-010018-03	FITTING, BRASS PIPE STR TEE 3/8	1
21	1-297-010033-03	PLUG, BRASS 3/8	1
22	108802	GLADHAND BLUE AIR	1
23	145522	VALVE ASSEMBLY, AIR BOOSTER **(ITEMS 13 - 17)**	1

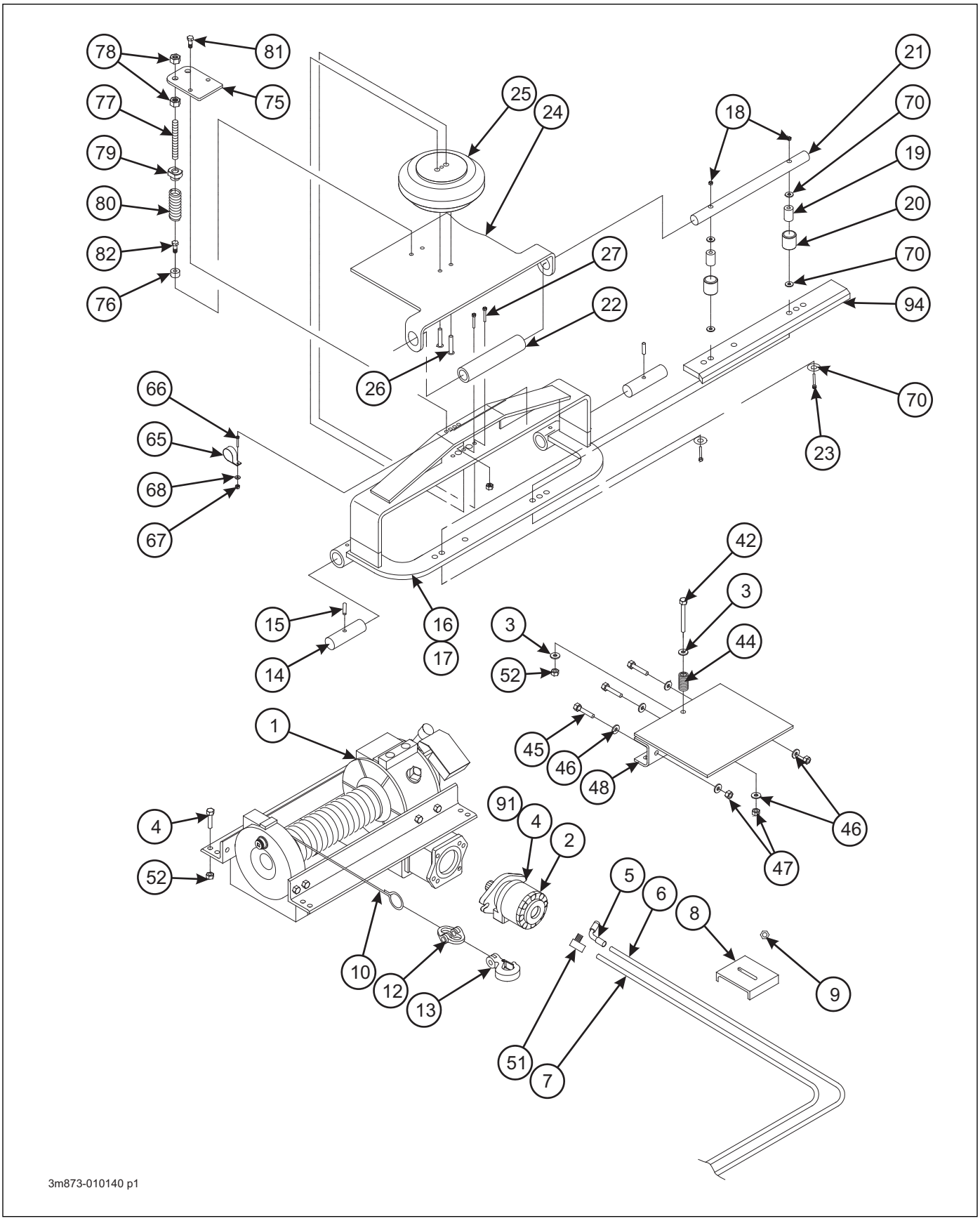


Figure 2-44: Winch Installation, Braden 12K / 20K (OPTION) (1 of 2)

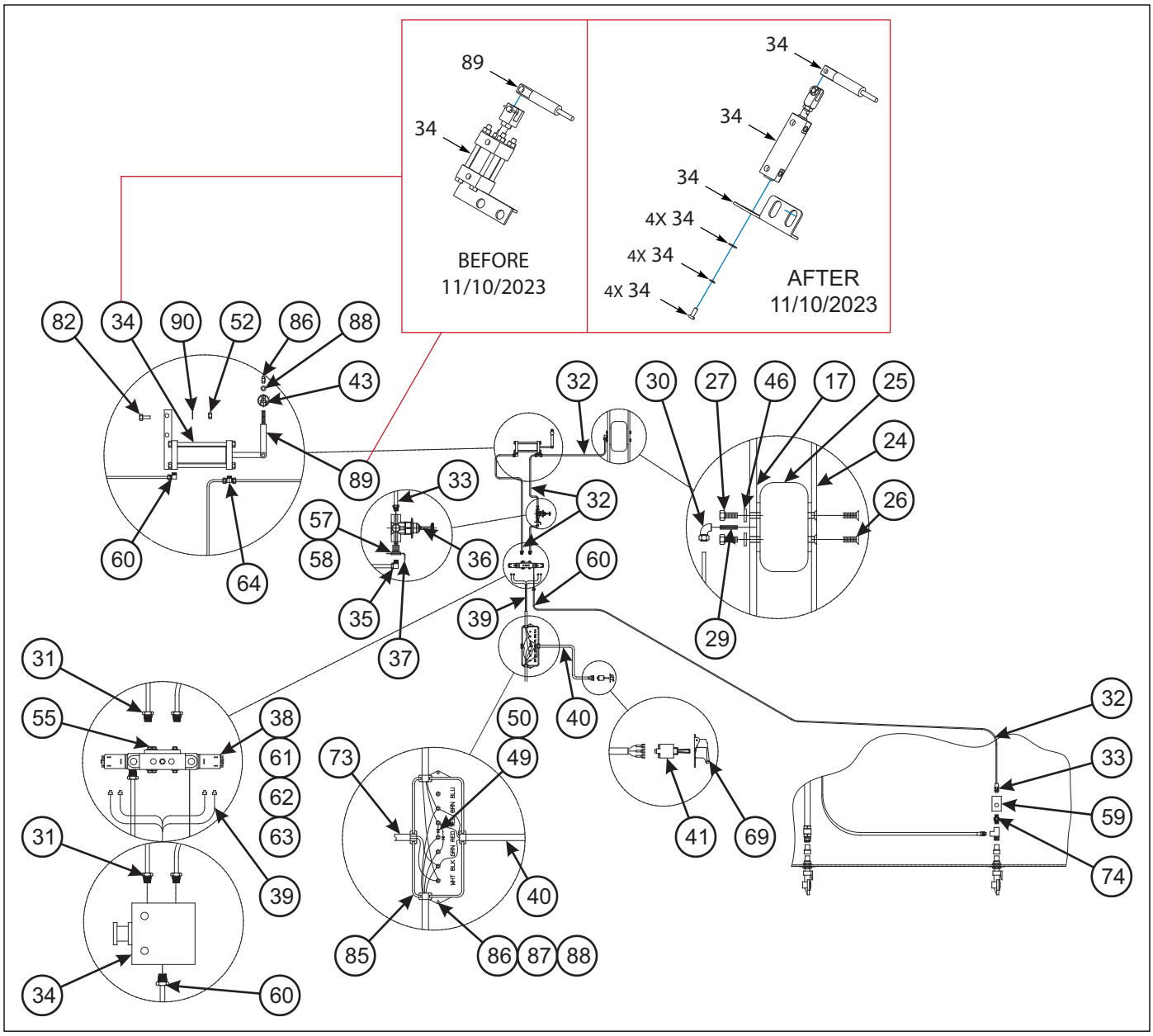


Figure 2-45: Winch Installation, Braden 12K / 20K (OPTION) (2 of 2)

WINCH INSTALLATION, BRADEN 12K / 20K (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	- -
	3-873-010144	WINCH, INSTALLATION 600-12K	- -
	123210	WINCH, 20K GUIDE AIR TEN/REL	- -
1	3-873-010123	WINCH ASSEMBLY 20K **(SEE PAGE 2-93)**	1
1	3-873-010122	WINCH ASSEMBLY 12K **(SEE PAGE 2-93)**	1
2	3-481-010007	MOTOR HYDRAULIC **(20K) (SEE PAGE 2-102)**	1
2	3-481-010006	MOTOR HYDRAULIC **(12K) (SEE PAGE 2-102)**	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

WINCH INSTALLATION, BRADEN 12K / 20K (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
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 85' W/ LOOP **(12K)**	1
10	3-155-010018-6	CABLE 85' W/ LOOP **(20K)**	1
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
14	119622	PIN, PIVOT WINCH ROLLER	1
15	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	**2
16	3-125-010464	BRACKET WELDMENT WINCH ROLLER	**1,****1
17	3-125-010465	BRACKET WELDMENT WINCH TENSIONER	*1,**1,***1
18	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	**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
21	3-642-010150	ROD, ROLLER TOP **(12K)**	**1
22	3-831-010182	TUBE, ROLLER TOP - 600 **(20K)**	**2
22	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
24	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	CYLINDER AIR W/BRKT WNCH R/SP **(NEW STYLE CONVERSION KIT, INCLUDES AIR CYLINDER, SHIFT LEVER & MOUNT BRACKET) (SEE PAGE 2-103)**	***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 LOCK 3/8-16 GRB	3
48	102186	WINCH TENSIONER WELDMENT **(20K)**	1
48	3-873-010124	WINCH TENSIONER WELDMENT **(12K)**	1

WINCH INSTALLATION, BRADEN 12K / 20K (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
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
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	*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
65	125892	CLAMP, CABLE 3/8	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	- - - - -	LEVER WINCH FREE SPOOL **(OBSOLETE - SEE PAGE 2-103)**	***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

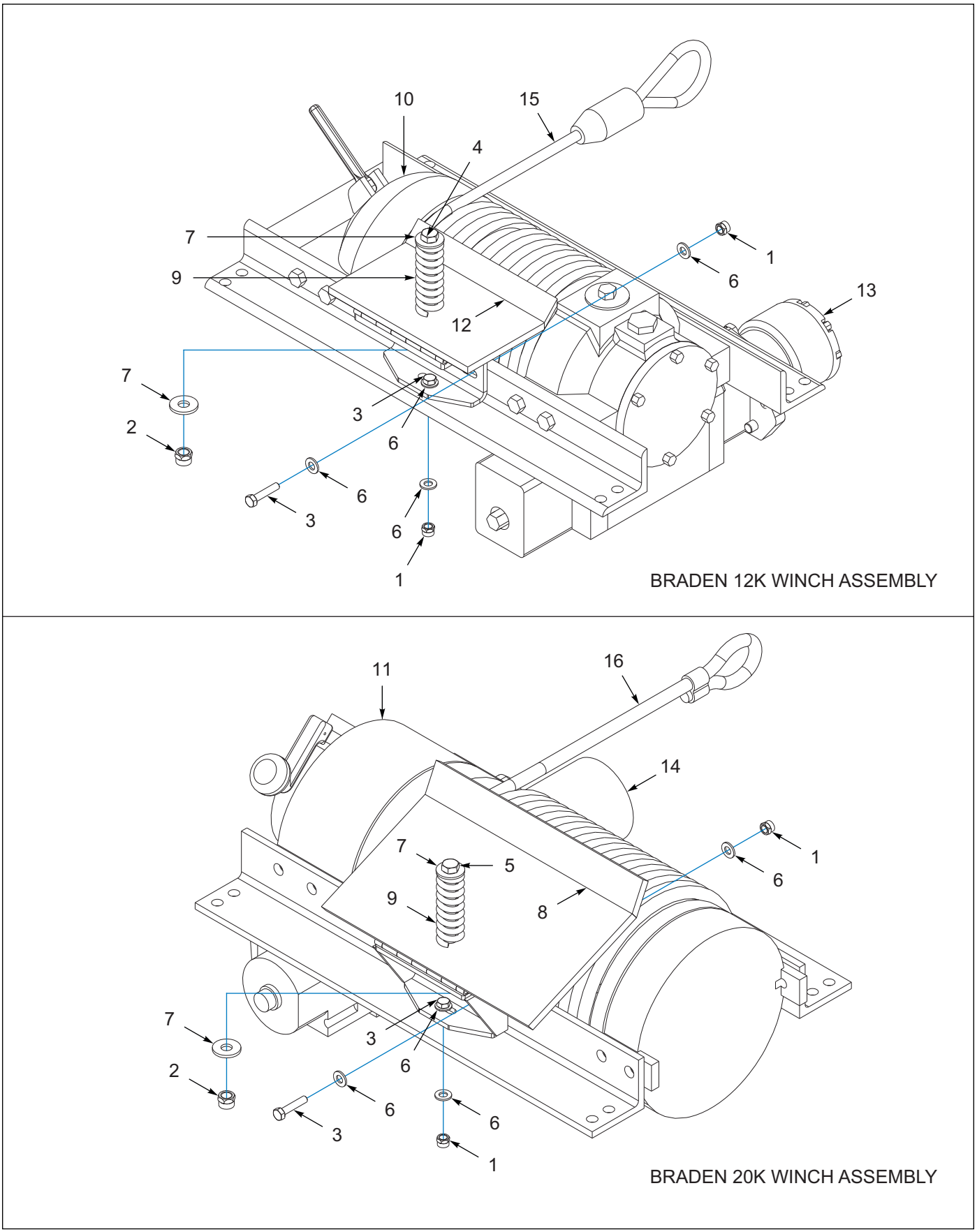


Figure 2-46: Winch Assembly, Braden 12K / 20K (OPTION)

WINCH ASSEMBLY, BRADEN 12K / 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010126-2	WINCH ASSY,12,000 LB PARKER	- -
	3-873-010129-2	WINCH ASSY,20000 LB, PARKER	- -
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	1
3	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
4	1-654-010055-16	SCREW HEX CAP 1/2-13X5-1/2GR5	1
5	1-654-010055-17	SCREW,HEX CAP,1/2-13UNCX6 GR5	1
6	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	6
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2
8	102186	WINCH TENS 20K BRADEN SPRG WLD	1
9	3-720-010010	SPRING COMP LEVEL WIND	1
10	3-873-010122	WINCH, WORM GEAR 12,000 LB **(COMPONENTS - SEE PAGE 2-96)**	1
11	3-873-010123	WINCH,WORM GEAR,20,000LB BRADN **(COMPONENTS - SEE PAGE 2-99)**	1
12	3-873-010124	WINCH TENSIONER WLDMT 12K	1
13	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A **(KEY SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 2-102)**	1
14	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B **(SPLINE SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 2-102)**	1
15	3-155-010017-4	CABLE 1/2 W/LOOP 85FT **(12K)**	1
16	3-155-010018-6	CABLE 5/8 W/LOOP 85FT **(20K)**	1

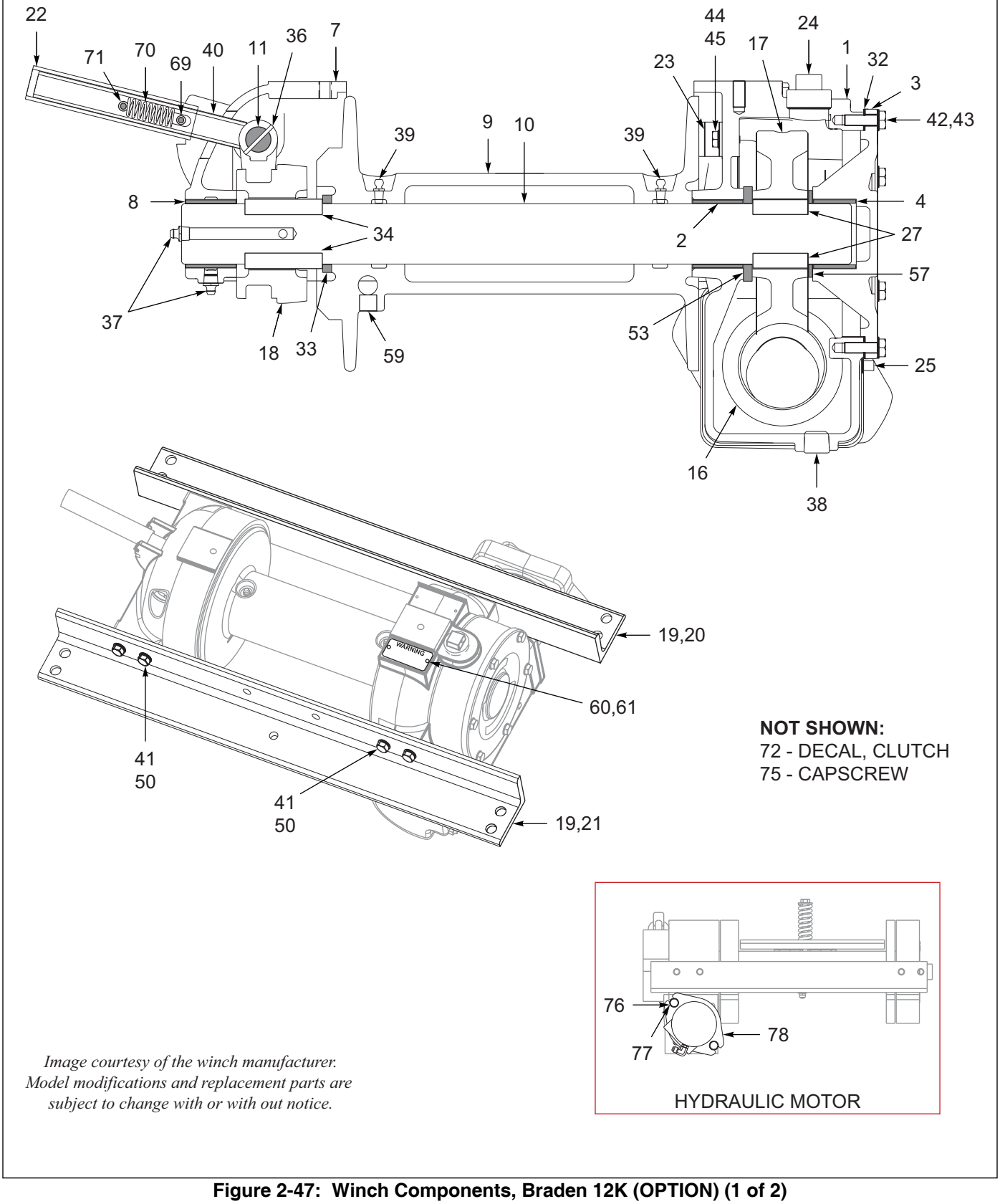


Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 2-47: Winch Components, Braden 12K (OPTION) (1 of 2)

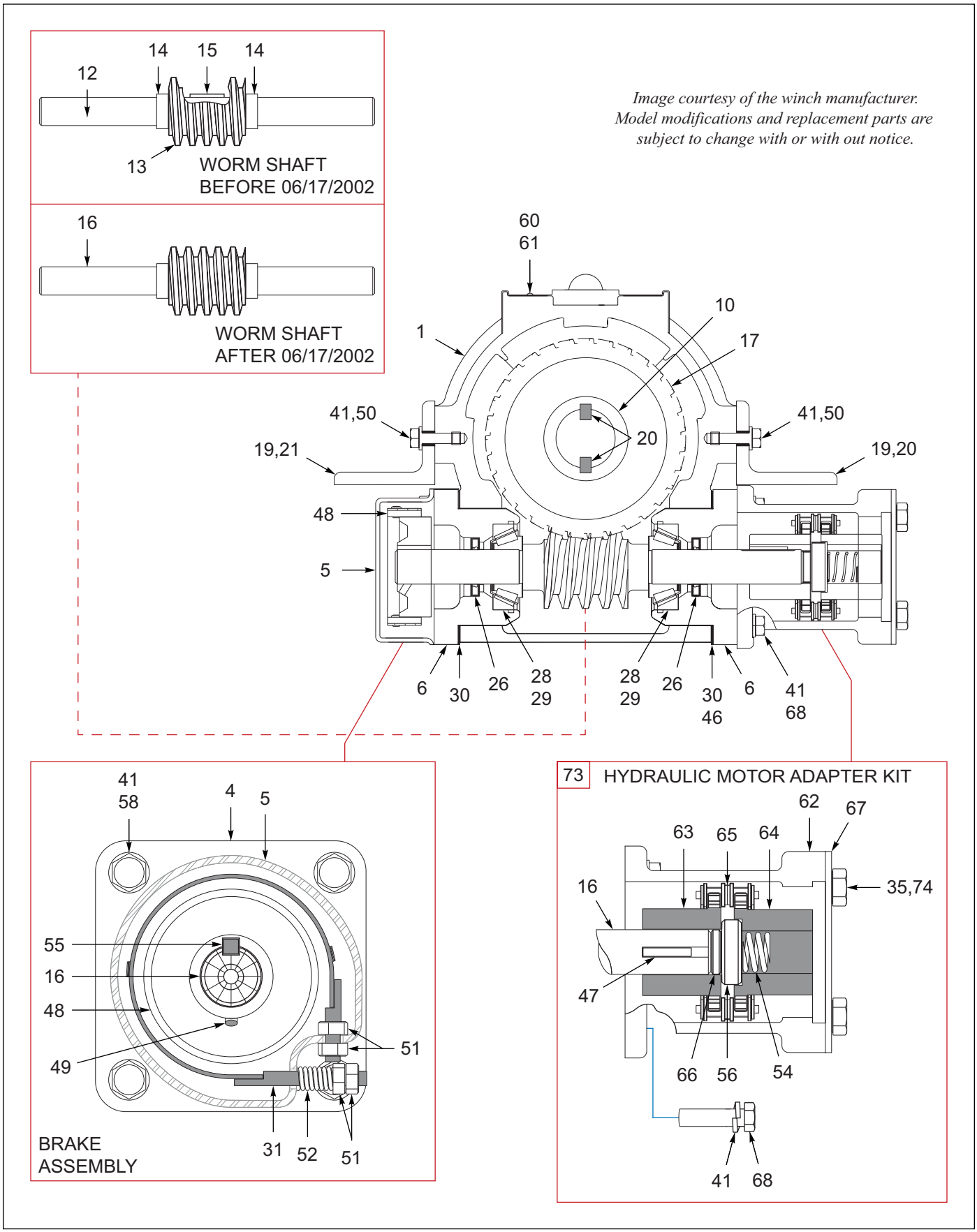


Figure 2-48: Winch Components, Braden 12K (OPTION) (2 of 2)

WINCH COMPONENTS, BRADEN 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010122	WINCH, WORM GEAR 12,000 LB	1
	3-873-010126-2	WINCH ASSY,12,000 LB PARKER **(2 BOLT MOUNT MOTOR)**	1
1	81006	HOUSING **(INCLUDES ITEM 2)**	1
2	18078	BUSHING-WORM HSNG ASSY12MBRAD **(INCLUDED WITH ITEM 1)**	1
3	81009	LU2-144-0 WORM HOUSING COVER **(INCLUDES ITEM 4)**	1
4	11368	BUSHING 12K WORM WINCH HOUSING **(INCLUDED WITH ITEM 3)**	1
5	18032	BRAKE HSG	1
6	23303	BEARING CONTAINER	2
7	81530	LEG ASSY **(INCLUDES ITEM 8)**	1
8	18077	BUSHING **(INCLUDED WITH ITEM 7)**	1
9	11128	CABLE DRUM	1
10	11129	CABLE DRUM SHAFT **(BEFORE 06/17/2013**)	1
10	248594	CABLE DRUM SHAFT 12K **(AFTER 06/17/2013)**	1
11	11130	SHIFTER SHAFT BRADEN	1
12	23470	WORM SHAFT **(BEFORE 06/17/2002, REPLACED BY ITEM 16)**	1
13	11142	WORM **(LITTLE GEAR)** **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	1
14	11308	WORM SPACER **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	2
15	18030	KEY **(BEFORE 06/17/2002, AFTER, REPLACED BY ITEM 16)**	1
16	248595	WORM LU2-L GEAR/SHAFT 12K **(AFTER 06/17/2002, REPLACED ITEMS 12-15)**	1
17	11144	GEAR, WORM, LH **(BIG GEAR)**	1
18	18039	CLUTCH COLLAR	1
19	22752	ANGLE BASE ALU-2-146 12M BRAD **(BEFORE 10/23/1990, AFTER, REPLACED BY ITEMS 20-21)**	2
20	248596	BASE ANGLE 12K MOTOR SIDE **(AFTER 10/23/1990, REPLACED ITEM 19)**	1
21	249510	BASE ANGLE 12K BRAKE SIDE **(AFTER 10/23/1990, REPLACED ITEM 19)**	1
22	12817	SHIFTER HANDLE	1
23	81025	DRAG BRAKE LGU2-10F WINCH	1
24	248358	PLUG	1
25	18009	PLUG	1
26	18026	SEAL	2
27	11117	KEY	2
28	18015	BEARING CONE BRADEN LGU2	2
29	18016	BEARING CUP BRADEN LGU2	2
30	18027	GASKET **(USED TO SHIM BEARING PRELOAD, QTY VARIES)**	6
31	21925	BRK BAND ASSY	1
32	11133	SEAL	1
33	18019	RING RETAINER	1
34	18020	CLUTCH KEY	2
35	248597	CAPSCREW 12K BRADEN **(SHIPPING COVER)**	2
36	11837	ROLL PIN	1
37	18047	GREASE FITTING **(BEFORE 06/17/2013, REQ 1 EACH, BOTTOM FITTING) (AFTER 06/17/2013 FITTING ON END OF THE SHAFT ADDED)**	2
38	19045	DRAIN PLUG	1

WINCH COMPONENTS, BRADEN 12K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
39	248598	FITTING GREASE 12K BRADEN	2
40	13839	SHIFTER FORK LGU2	1
41	248599	LOCKWASHER 12K BRADEN **(INCLUDED WITH ITEM 73, 4 EACH)**	16
42	248600	CAPSCREW 12K BRADEN	6
43	248601	WASHER SHPRF BRADEN 12K	6
44	249506	CAPSCREW 12K BRADEN	2
45	249507	WASHER SHPRF 12K WASHER	2
46	18024	GASKET	1
47	18044	KEY	1
48	18028	BRAKE DRUM	1
49	12075	SET SCREW	1
50	247943	CAPSCREW	8
51	13468	NUT	4
52	18029	BRAKE BAND SPRING	1
53	11240	THRUST RING BRADEN LUU2	1
54	110452	SPRING #23353 **(INCLUDED WITH ITEM 73)**	1
55	10078	ROTOR KEY	1
56	23078	CONSTANT SPACER **(INCLUDED WITH ITEM 73)**	1
57	13680	RING,THRUST	1
58	249508	CAPSCREW 12K BRADEN (INCLUDED WITH ITEM 73)	4
59	218058	SET SCREW 12K WINCH CABLE	1
60	248506	WARNING PLATE BRADEN	1
61	248507	DRIVE SCREW BRADEN 20K	2
62	23079	MOTOR ADAPTER 12M WINCH **(INCLUDED WITH ITEM 73)**	1
63	23081	COUPLER HALF WINCH **(INCLUDED WITH ITEM 73)**	1
64	23083	COUPLING HALF MOTOR LGU2-10F **(INCLUDED WITH ITEM 73)**	1
65	13424	CHAIN RLR **(INCLUDED WITH ITEM 73)**	1
66	115851	SPACER #23085 **(INCLUDED WITH ITEM 73)**	1
67	249509	SHIELD DUST MU7-502DG 12K **(SHIPPING COVER)**	1
68	110449	CAPSCREW **(INCLUDED WITH ITEM 73)**	4
69	13028	ROLL PIN	1
70	18002	SPRING	1
71	18056	ROLLPIN	1
72	100600	DECAL, CLUTCH	1
73	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH **(INCLUDES ITEMS 41, 54, 56, 58, 62-68, 74-75)**	1
74	216581	LOCKWASHER **(INCLUDED WITH ITEM 73) (SHIPPING COVER)**	4
75	248511	CAPSCREW **(INCLUDED WITH ITEM 73) (MOTOR SIDE, NOT USED)**	4
76	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
77	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
78	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A **(KEY SHAFT, 2 BOLT MOUNT)** **(COMPONENTS - SEE PAGE 2-102)**	1

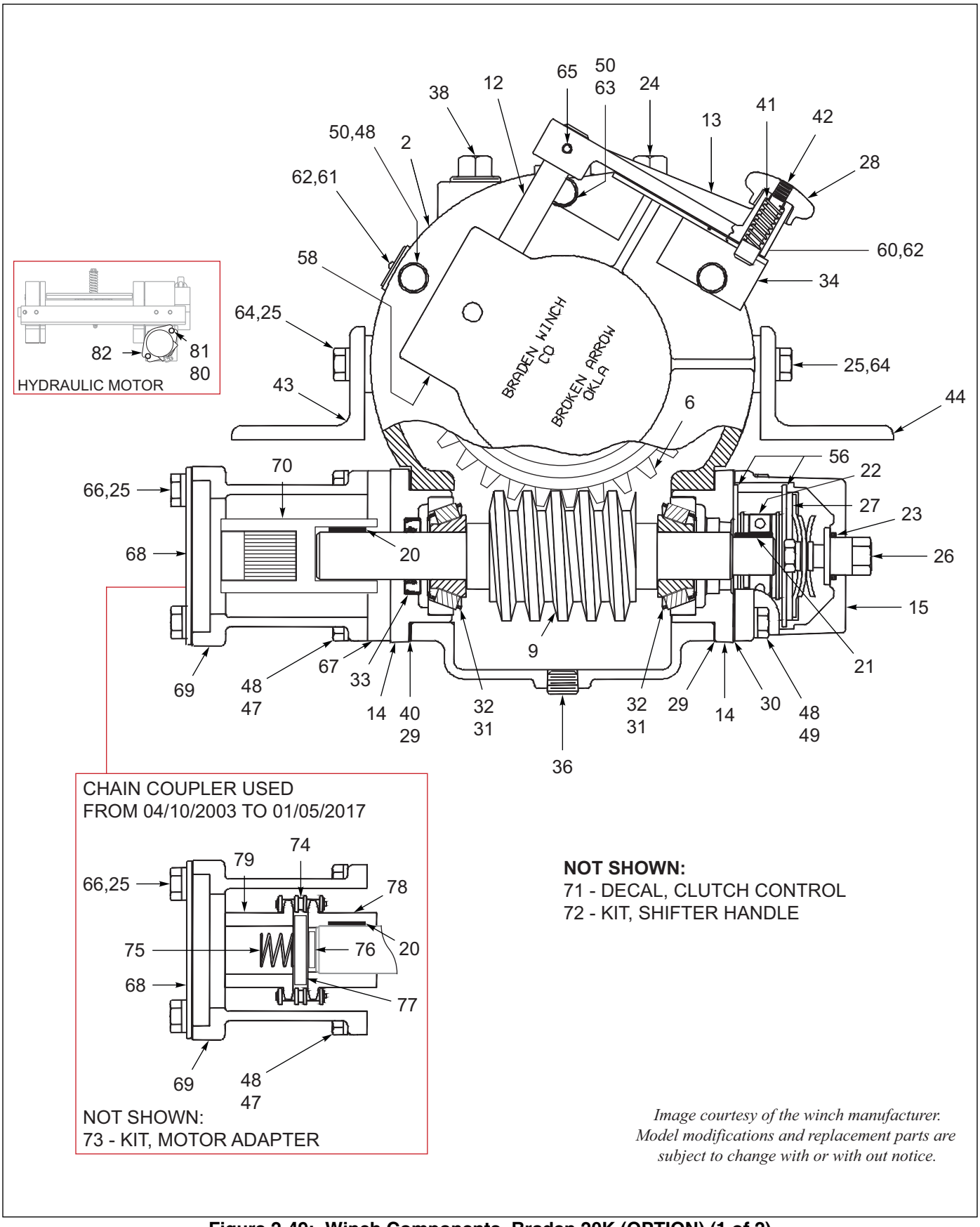


Figure 2-49: Winch Components, Braden 20K (OPTION) (1 of 2)

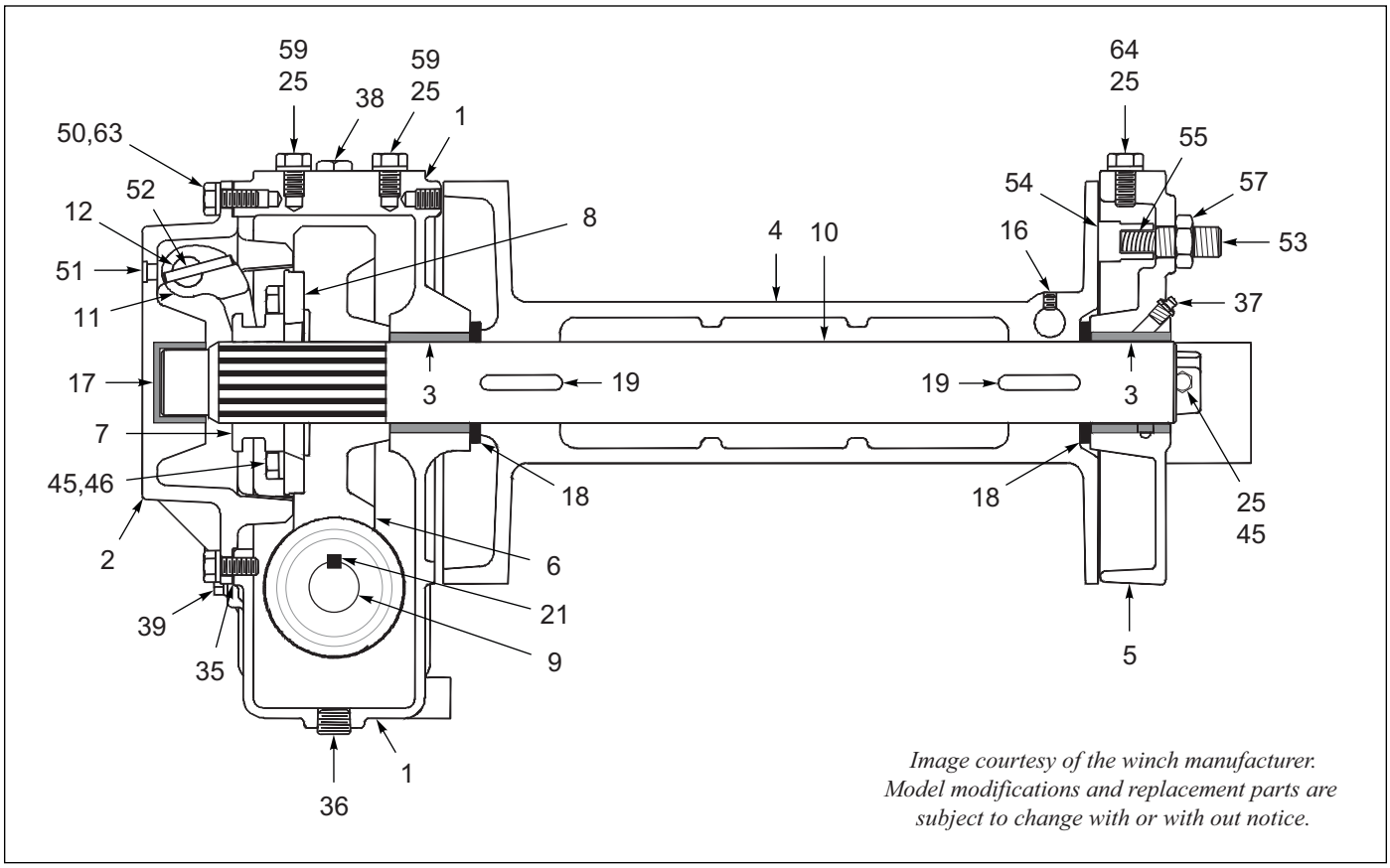


Figure 2-50: Winch Components, Braden 20K (OPTION) (2 of 2)

WINCH COMPONENTS, BRADEN 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010123	WINCH,WORM GEAR,20,000LB BRADN	1
	3-873-010129-2	WINCH ASSY,20000 LB, PARKER	1
1	81078	WORM HOUSING ASSY	1
2	248354	WORM HOUSING COVER ASSY	1
3	18035	BUSHING	2
4	11449	DRUM CABLE, BRADEN 20K WINCH	1
5	81077	LEG ASSEMBLY, BEARING	1
6	11434	GEAR,WORM, RIGHT **(BIG GEAR)**	1
7	11421	SLIDING CLUTCH	1
8	11419	CLUTCH DRIVE	1
9	248355	WORM AMU7-R GEAR/SHAFT **(GEAR & SHAFT 1 PIECE)**	1
10	139479	CABLE DRUM SHAFT	1
11	11440	SHIFTER FORK AMU7-16F WINCH	1
12	11441	SHAFT, SHIFTER	1
13	26976	SHIFTER HANDLE AMU7 WINCH **(INCLUDED WITH ITEM 72)**	1
14	124549	BEARING CONTAINER #11427	2
15	248356	MU7-250 WM BRAKE COVER	1
16	139478	SET SCREW FOR 20K WINCH	1
17	11425	BUSHING	1
18	11420	RING, RETAINING	2
19	163472	KEY, DRUM SHAFT	4
20	23367	KEY SPROCKET **(INCLUDED WITH ITEM 73)**	1

WINCH COMPONENTS, BRADEN 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
21	10078	ROTOR KEY	1
22	81080	ROTOR ASSY, BRAKE	1
23	12465	O-RING	1
24	248357	PIPE PLUG	1
25	216581	**LOCKWASHER (SHIPPING COVER, REQ 4 EACH, INCLUDED IN ITEM 73)**	15
26	81081	SPRING ASSY SAFETY BRAKE 20K	1
27	11431	PRESSURE PLATE AMU7 WINCH	1
28	18022	SHIFTER KNOB 20# WINCH **(INCLUDED WITH ITEM 72)**	1
29	11429	GASKET **(USED TO SHIM BEARING PRELOAD, QTY VARIES)**	6
30	11446	GASKET	1
31	18033	BEARING, CONE	2
32	18034	BEARING, CUP	2
33	12073	SEAL, GREASE	1
34	12783	LOCATING BRACKET AMU7 WINCH	1
35	11411	HOUSING COVER GASKET AMUF-16F	1
36	19045	DRAIN PLUG	1
37	18047	GREASE FITTING	1
38	248358	PLUG	1
39	248359	PLUG	1
40	11430	GASKET	1
41	11310	SPRING, SHIFTER KNOB 20# WNCH **(INCLUDED WITH ITEM 72)**	1
42	11309	STEM, SHIFTER KNOB 20# WINCH **(INCLUDED WITH ITEM 72)**	1
43	248360	BASE ANGLE FRONT	1
44	248361	BASE ANGLE REAR	1
45	248309	CAPSCREW MOTOR BRADEN 20K	12
46	248363	LOCKWASHER KEV 1 BRADEN 20K	8
47	248364	CAPSCREW BRADEN 20K **(INCLUDED WITH ITEM 73)**	4
48	248501	LOCKWASHER 20K BRADEN **(INCLUDED WITH ITEM 73, 4 EACH)**	13
49	248502	CAPSCREW BRADEN 20K	4
50	248503	CAPSCREW BRADEN 20K	6
51	12146	PLUG, EXPANSION	1
52	13028	ROLL PIN **(SHIFTER SHAFT TO FORK)**	1
53	11398	SCREW, ADJUSTMENT	1
54	88005	DRAG BRAKE SHOE ASSY	1
55	18002	SPRING	1
56	11426	DISC, FRICTION	2
57	11791	NUT, JAM	1
58	12767	PLUG, EXPANSION	1
59	248504	CAPSCREW BRADEN 20K	2
60	248505	NAMEPLATE (AMU7) SAE BRADEN	1
61	248506	WARNING PLATE BRADEN	1
62	248507	DRIVE SCREW BRADEN 20K **(USED TO MOUNT ITEMS 61-62)**	4
63	248508	WASHER SHPRF 20K BRADEN	1
64	248509	CAPSCREW BRADEN 20K	5
65	248510	ROLL PIN HANDLE TO SHIFTER **(HANDLE TO SHAFT)**	1
66	248511	CAPSCREW BRADEN 20K **(SHIPPING COVER) (INCLUDED WITH ITEM 73)**	4
67	248512	ADAPTER SPACER 20K BRADEN **(INCLUDED WITH ITEM 73)**	1

WINCH COMPONENTS, BRADEN 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
68	248513	COVER PLATE 20K BRADEN **(SHIPPING COVER)**	1
69	23144	ADAPTER MOTOR 20M WINCH **(INCLUDED WITH ITEM 73)**	1
70	248516	SOLID COUPLING BRADEN 20K **(AFTER 01/05/2017)** **(BEFORE 01/05/2017, CHAIN COUPLER USED)**	1
71	100600	DECAL, CLUTCH CONTROL **(NOT SHOWN) (AFTER 01/05/2017)**	1
72	125684	SHIFTER HANDLE BLACK **(KIT INCLUDES ITEMS 13, 28, 41-42)**	1
73	61344	MOTOR ADPT 20M BRADEN WINCH **(CHAIN COUPLER KIT ONLY)** **(FROM 04/10/2003 TO 01/05/2017)** **(KIT INCLUDES ITEMS 20, 25, 47-48, 66-67, 69, 74-79)**	1
74	13424	CHAIN RLR **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
75	110452	SPRING #23353 **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
76	115851	SPACER #23085 **(BEFORE 01/05/2017) (INCLUDED WITH ITEM 73)**	1
77	248514	CONSTANT SPACER 20K BRADEN **(BEFORE 01/05/2017)** **(INCLUDED WITH ITEM 73)**	1
78	23082	WINCH SPROCKET 20K BRADEN **(BEFORE 01/05/2017)** **(INCLUDED WITH ITEM 73)**	1
79	23145	MOTOR SPROCKET 20K BRADEN **(BEFORE 01/05/2017)** **(INCLUDED WITH ITEM 73)**	1
80	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2
81	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
82	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B **(SPLINE SHAFT, 2 BOLT MOUNT) (COMPONENTS - SEE PAGE 2-102)**	1

NOT SHOWN:
17 - KIT, SEAL

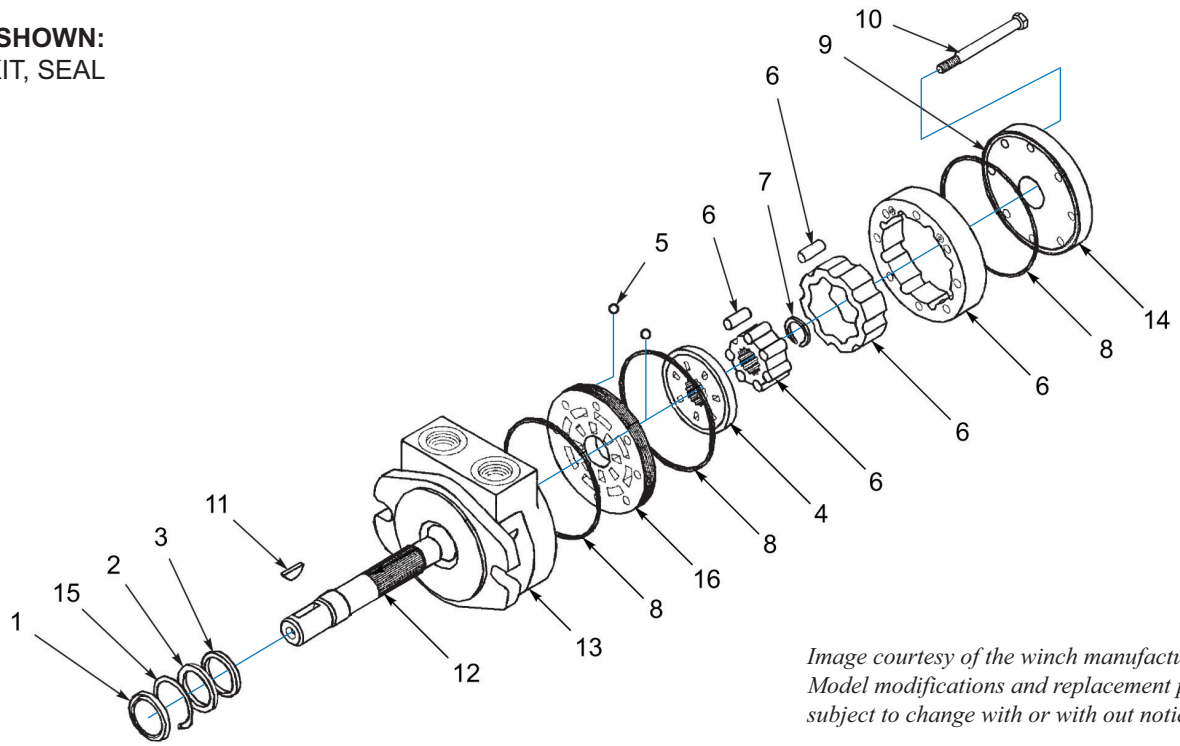


Image courtesy of the winch manufacturer. Model modifications and replacement parts are subject to change with or with out notice.

Figure 2-51: Winch Motor Assembly, Braden 12K / 20K (OPTION)

WINCH MOTOR ASSEMBLY, BRADEN 12K / 20K (OPTION)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-481-010006	MOTOR,HYD 7.1 CU IN/REV,SAE A **(12K WINCH)**	1
	3-481-010007	MOTOR HYD 12.9CU IN/REV,SAE B **(20K WINCH)**	1
1	- - - - -	SEAL DUST	1
2	- - - - -	BACK-UP RING	1
3	- - - - -	SEAL LIP	1
4	- - - - -	ROTARY VALVE	1
5	- - - - -	CHECK VALVE BALL	2
6	- - - - -	IGR ASSEMBLY - 20K WINCH	1
6	- - - - -	IGR ASSEMBLY - 12K WINCH	1
7	- - - - -	SNAP RING	1
8	1046	SEAL SQ RING,MOTOR	3
9	- - - - -	PLUG VENT W/O-RING	1
10	- - - - -	BOLTS HEX - 20K WINCH	8
10	- - - - -	BOLTS HEX - 12K WINCH	8
11	- - - - -	KEY WOODRUFF	1
12	- - - - -	SHAFTFOR - 20K WINCH **(SPLINED SHAFT)**	1
12	- - - - -	SHAFTFOR - 12K WINCH **(KEY SHAFT)**	1
13	- - - - -	BODY/BEARING ASSEMBLY - 20K WINCH	1
13	- - - - -	BODY/BEARING ASSEMBLY - 12K WINCH	1
14	- - - - -	COVER/BEARING ASSEMBLY	1
15	- - - - -	SNAP RING SHAFT	1
16	- - - - -	COMMUTATOR PLATE	1
17	2263	KIT, SEAL **(NOT SHOWN)**	1
17	- - - - -	SEAL KIT BODY VITON **(NOT SHOWN)**	1

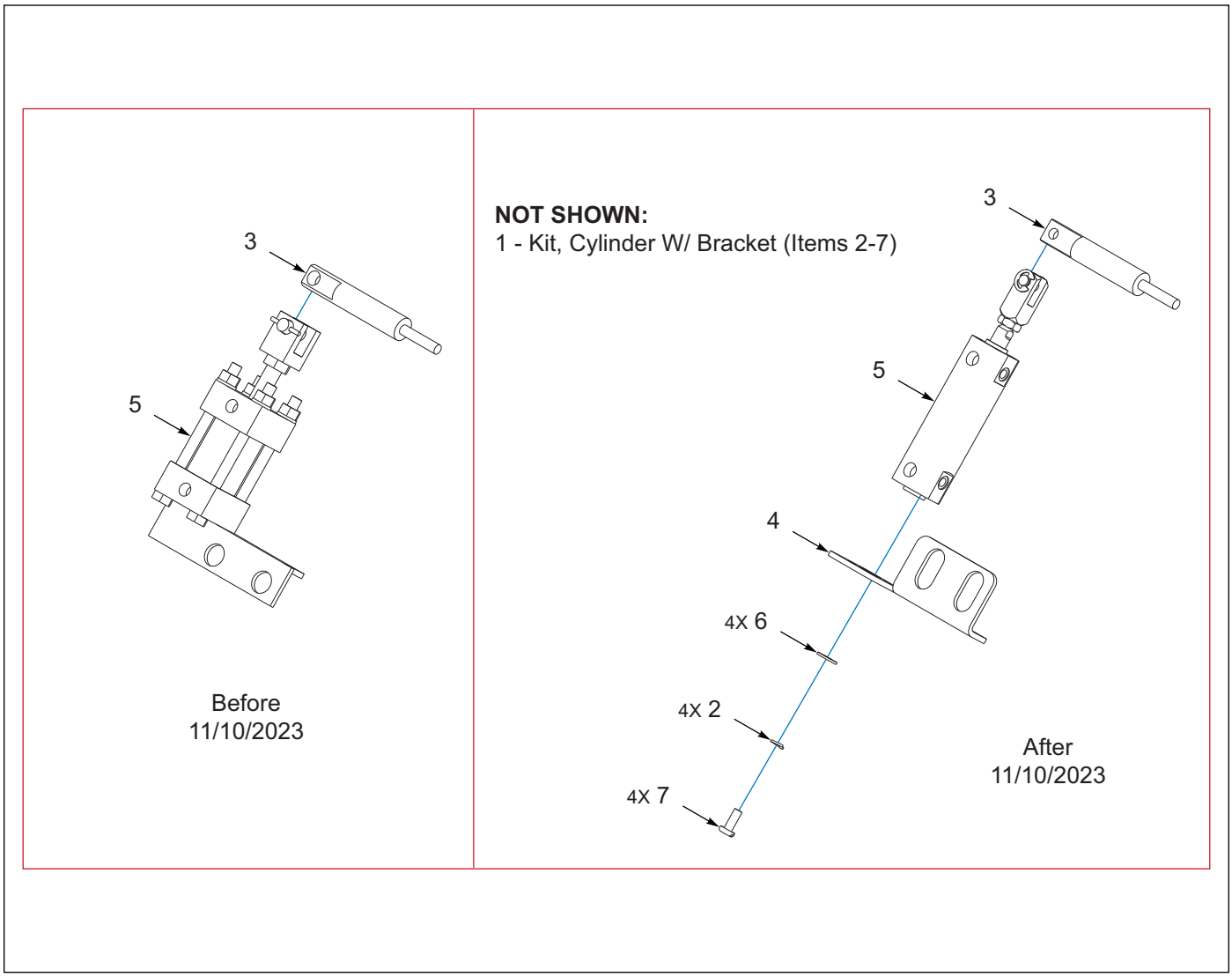


Figure 2-52: Winch Air Shift Cylinder

WINCH AIR SHIFT CYLINDER

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	107368	CYLINDER AIR W/BRKT WNCH R/SP **(NEW STYLE CONVERSION KIT, INCLUDES ITEMS 2-7)**	1
2	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4
3	- - - - -	LEVER WINCH FREE-SPOOL **(OBSOLETE, ORDER ITEM 1)**	- -
3	247863	LEVER WINCH FREE-SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	1
4	247864	ANGLE WINCH FREE SPOOL SMC CYL **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1) (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
5	- - - - -	CYLINDER AIR W/BRKT WNCH R/SP **(OBSOLETE, ORDER ITEM 1)**	- -
5	247865	CYLINDER AIR 1" STROKE SMC **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1) (INCLUDES CLEVIS, PIN & E-CLIPS)**	1
6	25E10E	WASHER, FLAT #10 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4
7	86G1008E	SCREW PAN HD SL #10-32X.50 **(AFTER 11/10/2023) (INCLUDED WITH ITEM 1)**	4

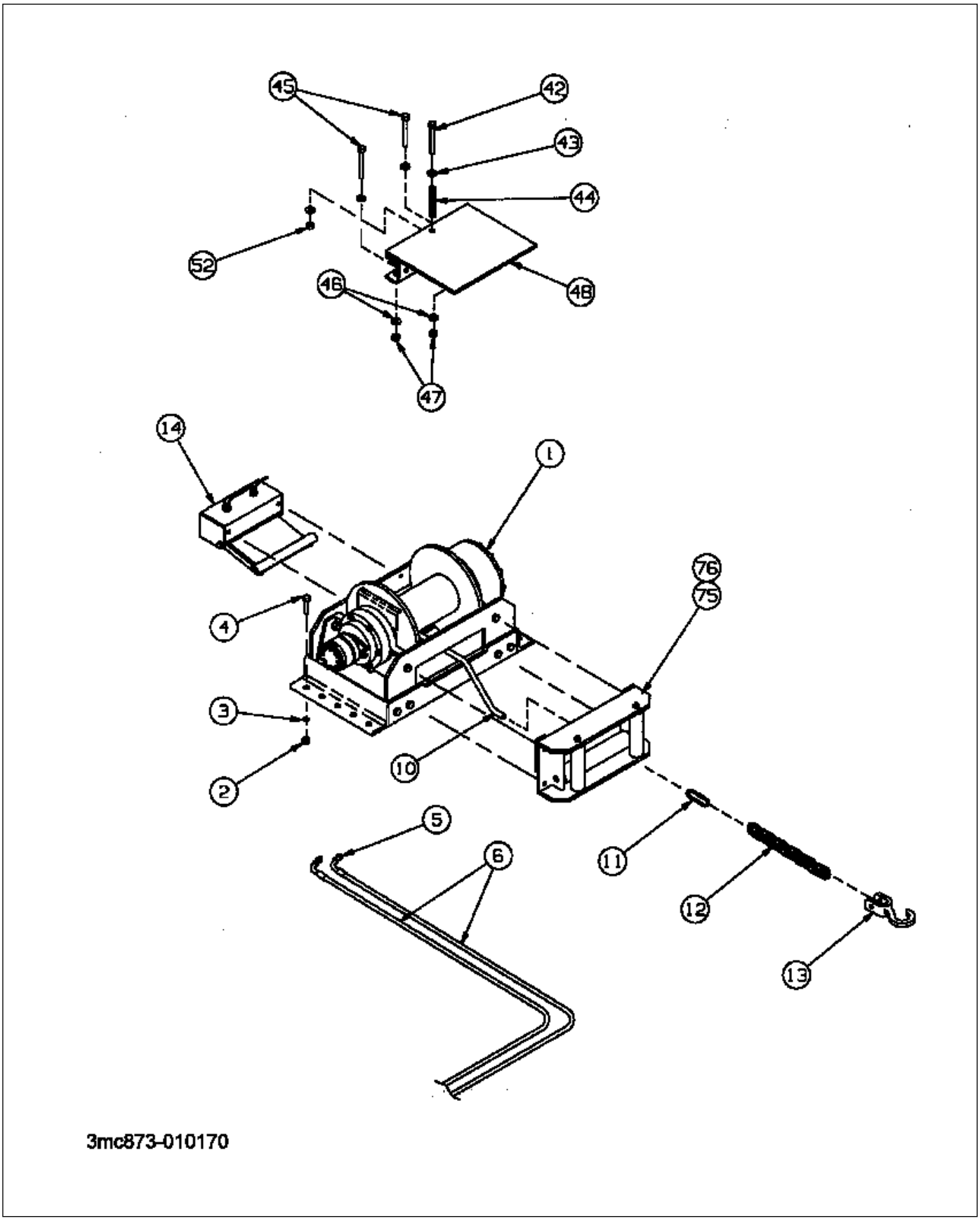


Figure 2-53: 30K Upper Deck Winch Installation (DP) (1 of 2)

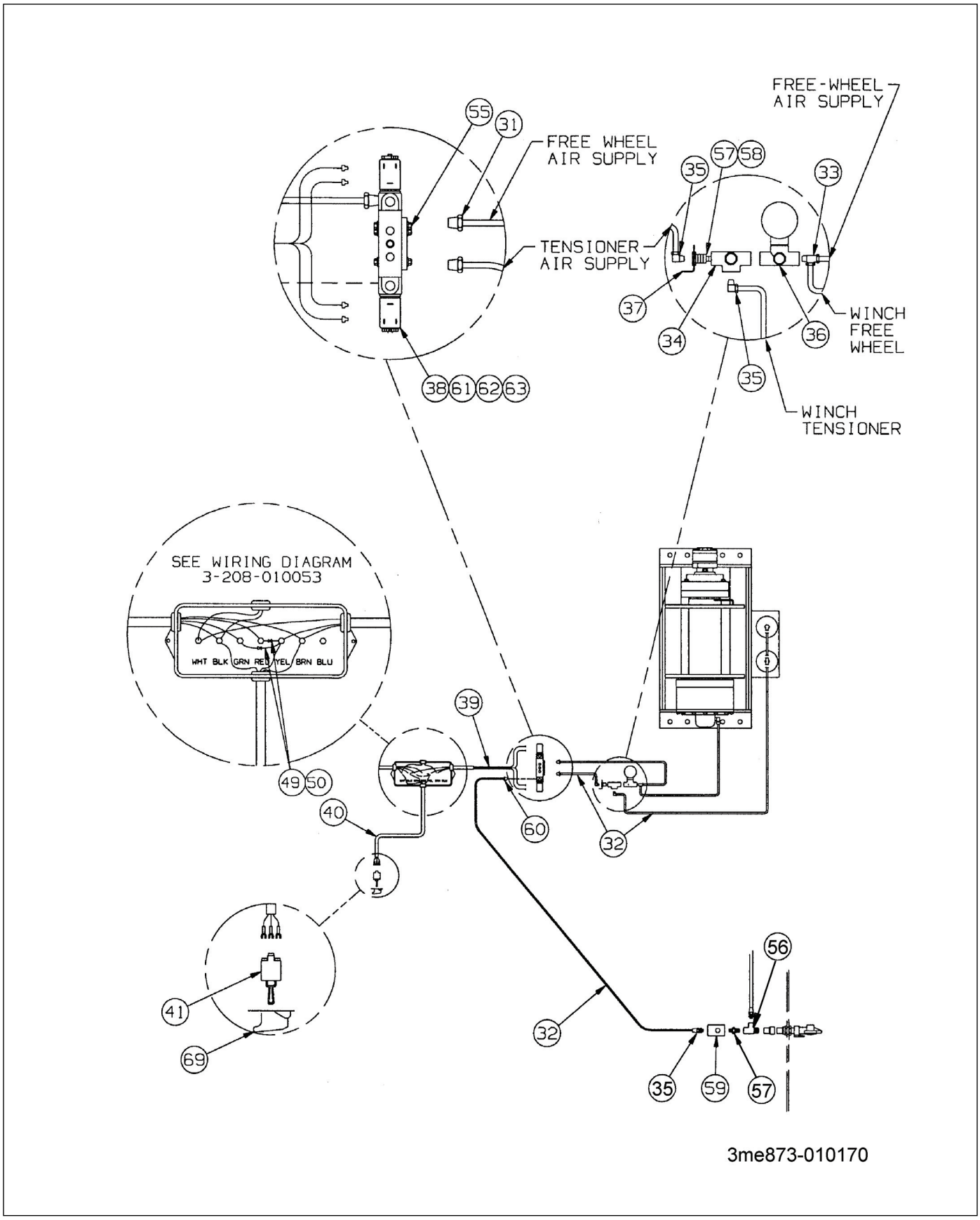


Figure 2-54: 30K Upper Deck Winch Installation (DP) (2 of 2)

30K UPPER DECK WINCH INSTALLATION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010170	WINCH INSTALLATION 600-30K UPPER DECK	- -
1	3-873-010173	WINCH 30K ITEMS (SEE PAGE 2-109)	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
10	3-153-010016-02	CABLE ASSEMBLY 3/4 X 85’ W/ LOOP	REF
10	132833	CABLE ASSEMBLY 5/8 X 85' FLEX W/ LOOP	REF
11	3-174-010059	CHAIN LINK 5/8	1
12	3-174-010060036	CHAIN GR 80	1
13	1-382-010035-06	HOOK, CLEVIS	1
14	3-873-010172	WINCH CABLE AIR TENSION 30K (SEE PAGE 2-115)	*1
31	1-297-010007-04	FITTING AIR	*2,***1
32	1-833-010001	NYLON TUBING 1/4 OD	*34,***34
33	1-297-010011-02	FITTING, AIR TEE	*1
34	3-843-010039-02	VALVE AIR SHUTTLE 1/4	*1
35	1-297-010008-07	FITTING, AIR 90	2
36	3-626-010004	REGULATOR, AIR PRESSURE	*1
37	3-120-010445	BRACKET, PRESSURE REGULATOR	*1
38	3-843-010022	VALVE, PNEUMATIC	*1,***1
39	3-368-010129	HARNESS ASSEMBLY SINGLE REMOTE	*1,***1
40	3-368-010187	HARNESS REMOTE SWITCH	*1,***1
41	1-765-010065	TOGGLE SWITCH SPDT	*1,***1
42	1-654-010055-17	SCREW, HEX HEAD CAP 1/2-13 X 6 GR5	****1
43	1-861-010032-15	WASHER FLAT 1/2	****2
44	3-720-010010	SPRING COMP LEVEL WIND	****1
45	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	****2
46	1-861-010032-18	WASHER, FLAT 5/8N	****4
47	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	****2
48	111641	WINCH TENSIONER WELDMENT 30K	****1
49	2-272-010109	ZENOR DIODE	***2
50	3-272-010018	TUBING HEAT SHRINK W/ SEALANT	***2
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	****1
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	***2
56	1-297-010015-09	FITTING AIR BR TEE	1
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	***1
60	1-297-010008-05	FITTING, AIR 90	***1
61	1-654-010024014	SCREW, MACH FIL #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	***3
69	3-348-010048	GUARD SWITCH - 3 POSITION	1
75	122333	WINCH ROLL. GDE 30K PLNTY DP (SEE PAGE 2-113)	*1
76	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	*4

NOTES:

30K UPPER DECK WINCH INSTALLATION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.

* - FOR AIR TENSION OPTION.

**- FOR CABLE ROLLER OPTION.

***- FOR AIR SHIFT OPTION.

****- FOR SPRING TENSION OPTION.

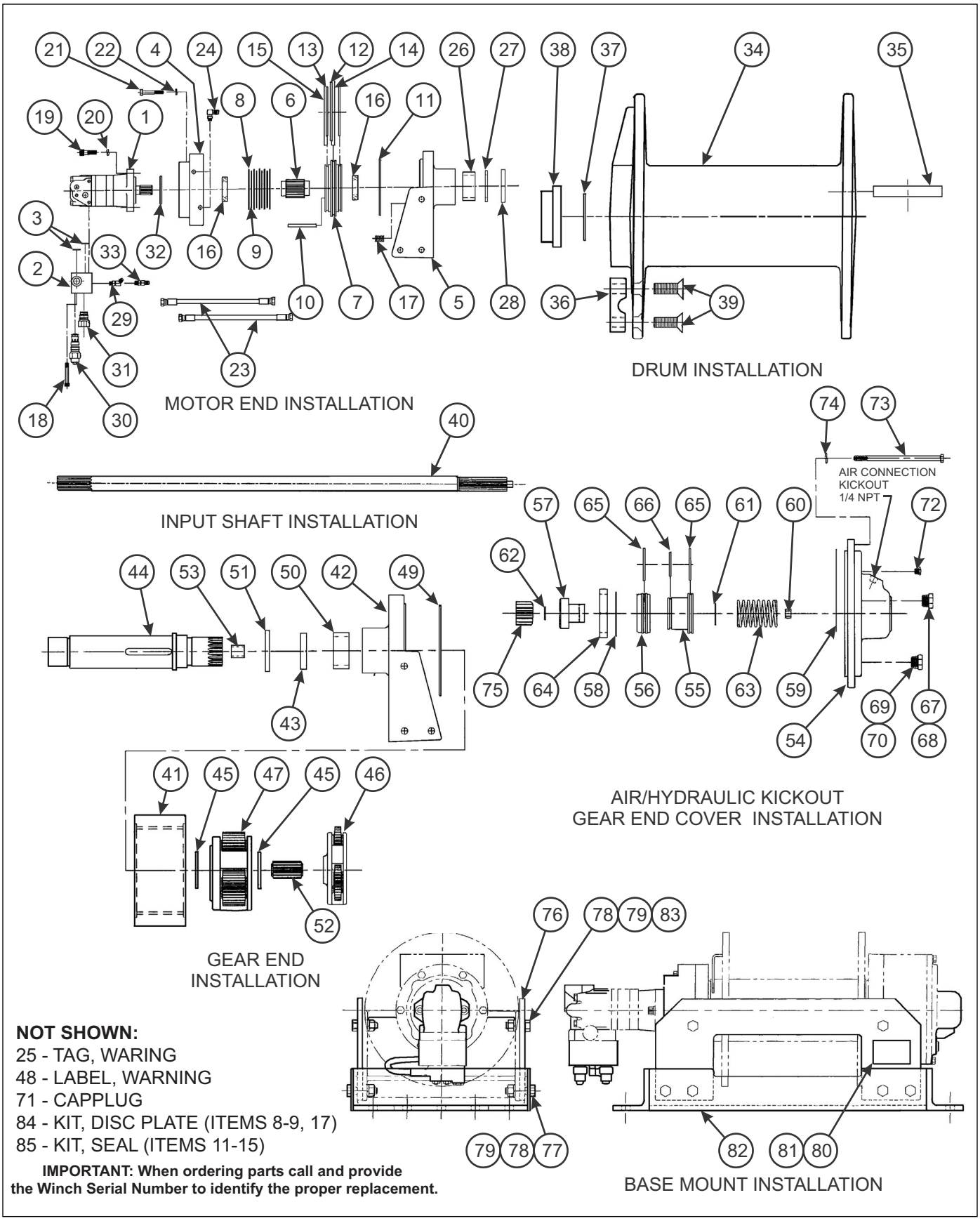


Figure 2-55: 30K Winch Components (DP)

30K WINCH COMPONENTS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
	3-873-010173		WINCH 30K ITEMS	
1	- - - - -	73076	MOTOR, HYDRAULIC	1
2	137888	11604	VALVE, COUNTERBALANCE	1
3	- - - - -	9817	O-RING, 13/16 I.D. X 3/32 SECTION	2
4	- - - - -	11535	BRAKE HOUSING	1
5	- - - - -	13299	SUPPORT MOTOR END	1
6	- - - - -	11750	SHAFT BRAKE	1
7	- - - - -	11443	PISTON BRAKE	1
8	- - - - -	11603	PLATE DISC FRICTION	10
9	- - - - -	3159	PLATE DRIVE BRAKE	9
10	- - - - -	3263	PIN DOWEL 5/16 DIA. X 3-1/2	2
11	137993	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
12	137994	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
13	137421	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16	2
14	- - - - -	9854	RING, BACK-UP	1
15	137422	9852	RING, BACK-UP 5-3/8 I.D.	1
16	- - - - -	81434	BEARING BALL 1-3/4 I.D.	2
17	- - - - -	2319	SPRING COMPRESSION	12
18	- - - - -	1345	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
19	- - - - -	1143	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
20	- - - - -	1144	WASHER, LOCK HI COLLAR 1/2	6
21	- - - - -	1376	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
22	- - - - -	1388	WASHER, LOCK 7/16	4
23	- - - - -	75038	HOSE 1/4R1 X 12”	1
24	- - - - -	76017	ADAPTER 90	1
25	- - - - -	10708	TAG WARNING **(NOT SHOWN)**	1
26	- - - - -	81454	BEARING -TORRINGTON	1
27	- - - - -	13288	WASHER THRUST BRONZE	1
28	137880	9890	SEAL SHAFT	1
29	137641	76029	ADAPTER 45	
30	137883	3177	CARTRIDGE COUNTERBALANCE	1
31	137884	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
32	137882	9880	O-RING 3 ID X 1/8 SECTION	1
33	- - - - -	76027	ADAPTER STRAIGHT	
34	- - - - -	13285	DRUM	1
35	- - - - -	13293	KEY DRUM	2
36	137569	12518	CLIP CABLE THREADED	1
37	- - - - -	9602	O-RING 2-5/8 ID X 1/8 W	1
38	- - - - -	13286	SPACER	1
39	137570	1587	CAP SCREW, FLAT SKT HEAD 5/8-11 X 1-3/4	
40	- - - - -	13317	SHAFT INPUT	1
41	- - - - -	3126	GEAR RING	1
42	- - - - -	13300	SUPPORT GEAR END	1
43	- - - - -	13288	WASHER THRUST	1
44	- - - - -	13301	SHAFT OUTPUT	1
45	- - - - -	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16	2
46	- - - - -	12486	CARRIER ASSEMBLY PRIMARY	1

30K WINCH COMPONENTS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
47	- - - - -	12516	CARRIER ASSEMBLY SECONDARY	1
48	- - - - -	10848	LABEL WARNING **(NOT SHOWN)**	1
49	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
50	- - - - -	81454	BEARING	1
51	137880	9890	SEAL SHAFT	1
52	- - - - -	13306	GEAR SUN	1
53	- - - - -	81608	BUSHING ID 1-1/4 OD X 1 LG	1
54	- - - - -	13675	COVER GEAR END	1
55	- - - - -	13295	PISTON AKO B/C/D	1
56	- - - - -	13296	CYLINDER PISTON	1
57	- - - - -	13297	COUPLING DRIVE	1
58	- - - - -	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
59	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
60	- - - - -	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
61	- - - - -	3303	RING RETAINING 1-1/4	1
62	- - - - -	3321	RING RETAINING RD SEC .805 I.D.	1
63	- - - - -	2309	SPRING COMPRESSION	1
64	- - - - -	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
65	137881	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
66	- - - - -	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
67	105967	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
68	- - - - -	9992	O-RING .755 I.D. X .097 W 3-910	1
69	105954	76343	PLUG SKT HD O-RING MAG #10	1
70	- - - - -	9992	O-RING .755 I.D. X .097 W 3-910	1
71	- - - - -	1157	CAPLUG #4 RED **(NOT SHOWN)**	1
72	105953	3059	RELIEF VENT	1
73	- - - - -	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
74	- - - - -	1395	WASHER LOCK 3/8	12
75	- - - - -	13235	GEAR SUN AKO	1
76	- - - - -	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
77	- - - - -	1506	SCREW CAP HEX HEAD 5/8-11 X 2-1/2 GR5	12
78	- - - - -	1590	NUT HEX 5/8 - 11 GR2	12
79	- - - - -	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12
80	- - - - -	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4
81	- - - - -	10466	PLATE INFORMATION	1
82	- - - - -	14073	BASE SUPPORT	1
83	- - - - -	1504	CAP SCREW, HEX HEAD 5/8-11 X 2 GR5	4
84	137885	9400	DISC PLATE KIT **(INCLUDES ITEMS 8-9, 17)**	1
85	137886	9406	SEAL KIT **(INCLUDES ITEMS 11-15)**	1

Page Intentionally Blank

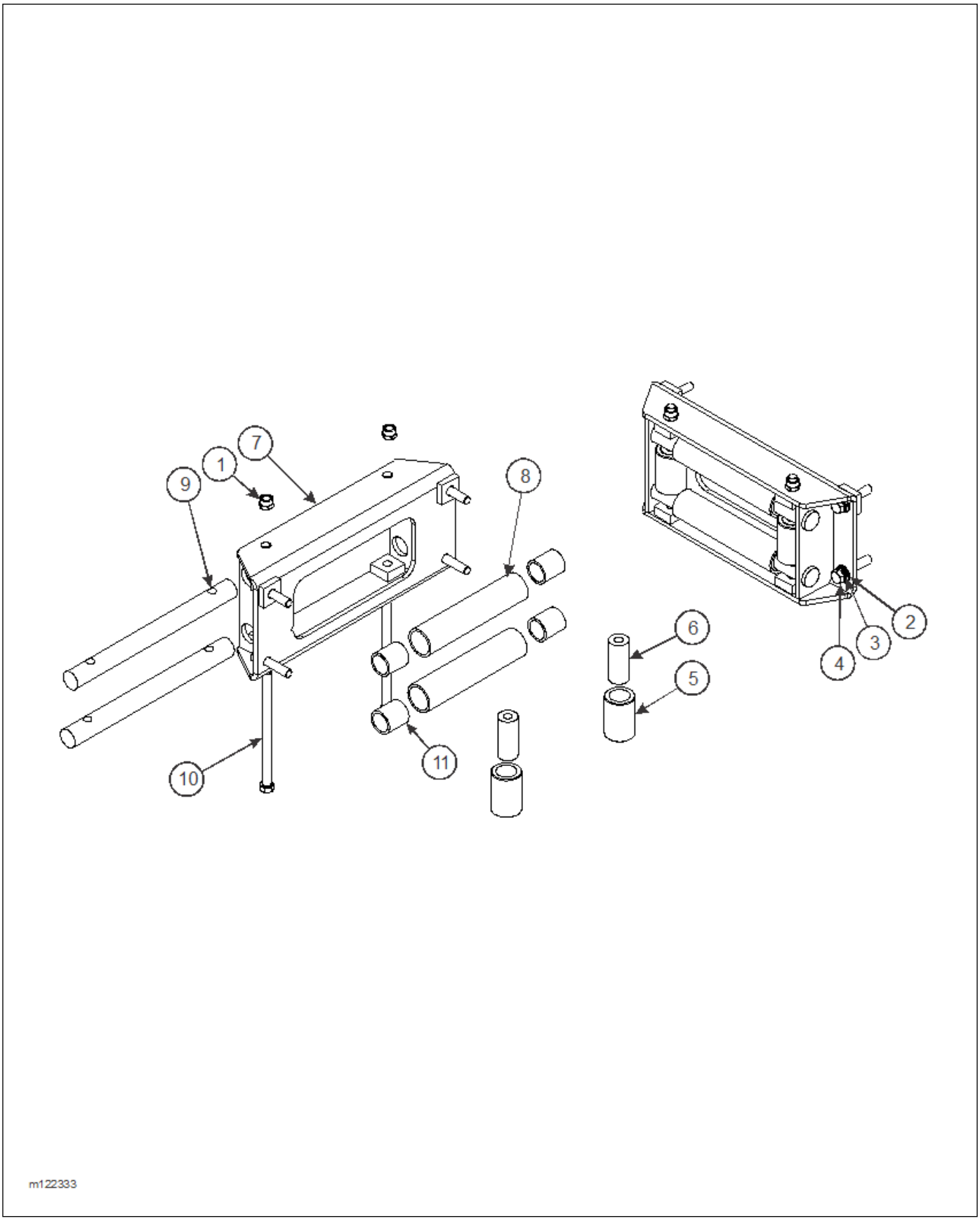


Figure 2-56: Winch Roller Guide - 30K

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

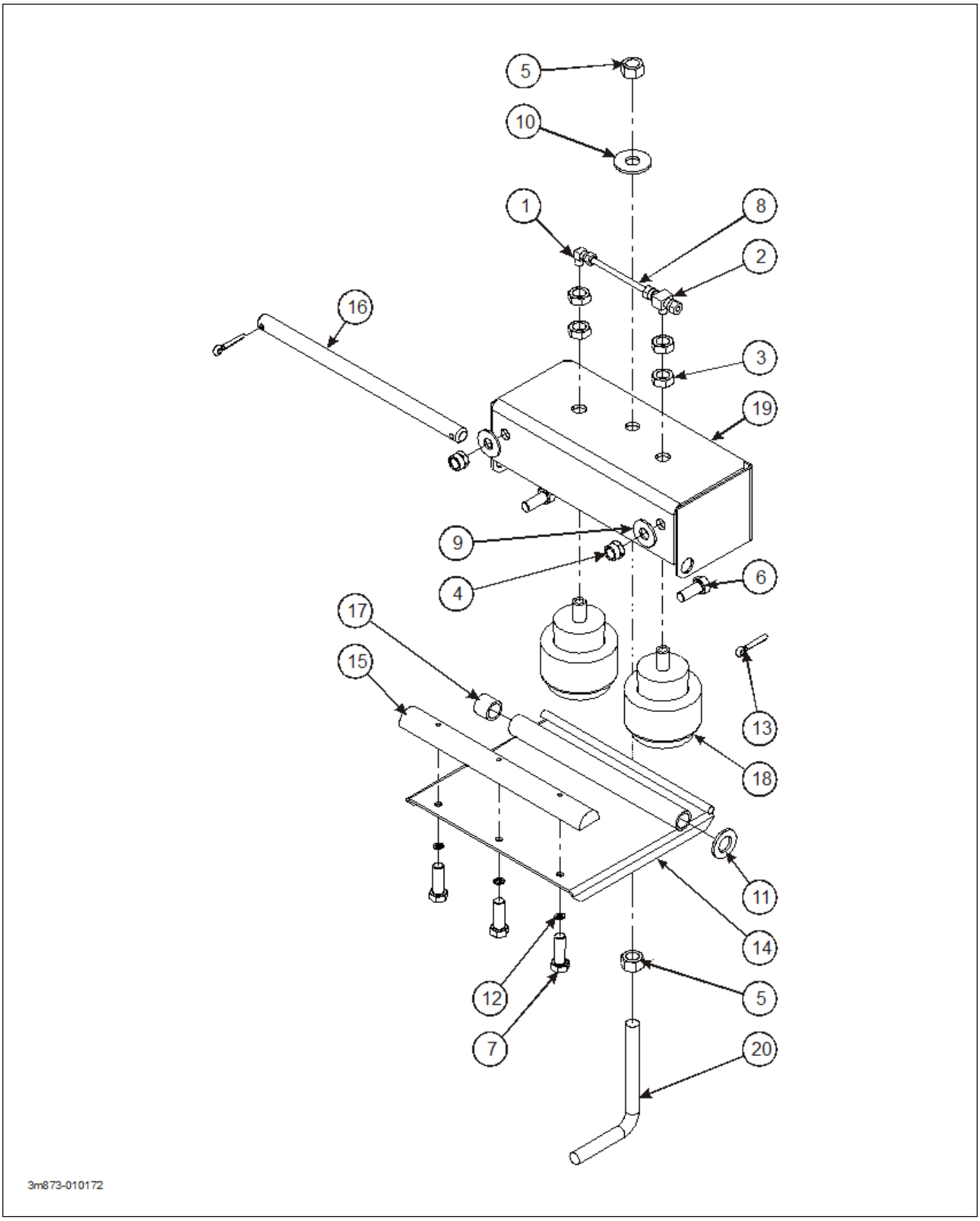


Figure 2-57: Winch, Cable Air Tension

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

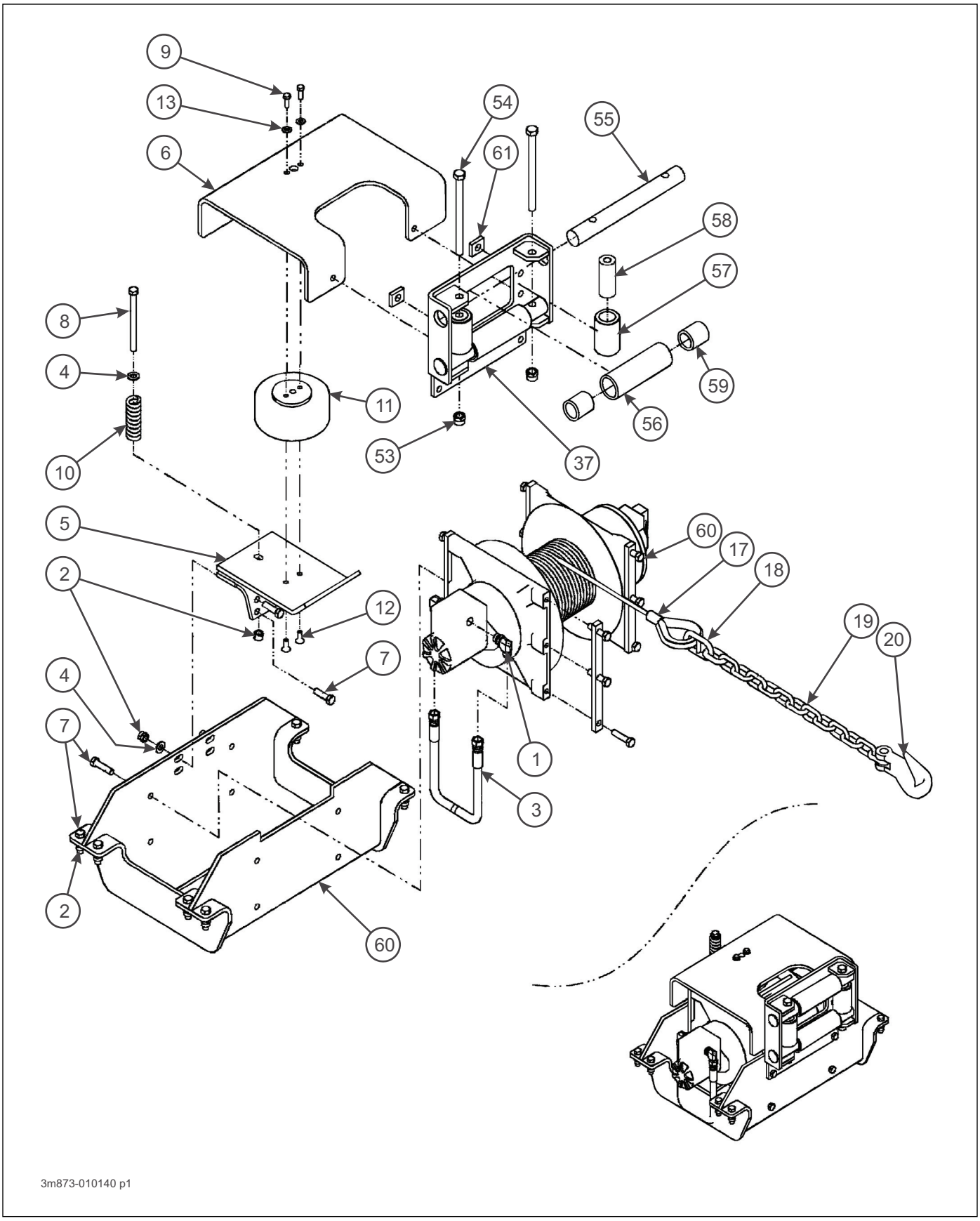


Figure 2-58: 12K, 15K, & 20K Upper Deck Winch (DP) (1 of 2)

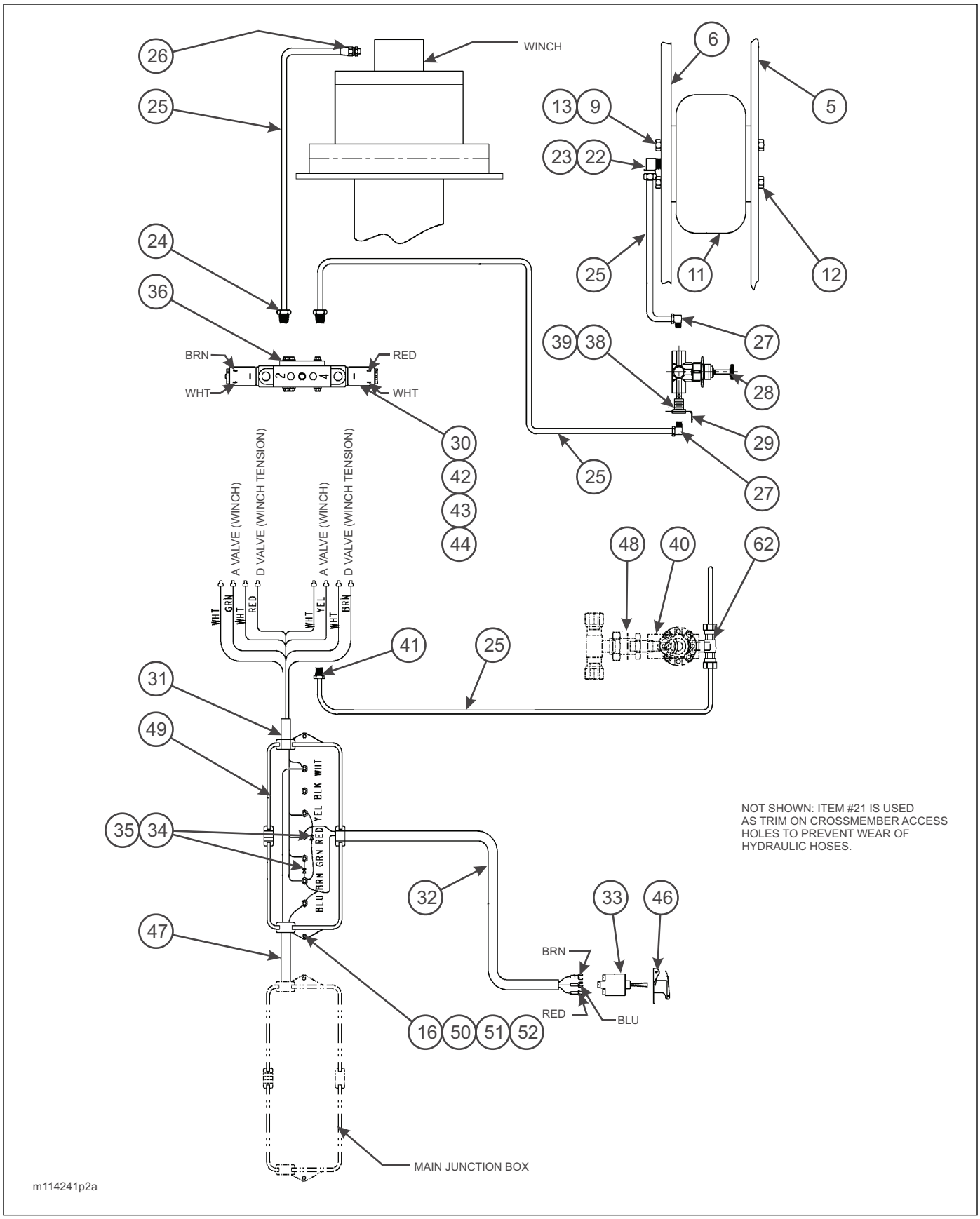


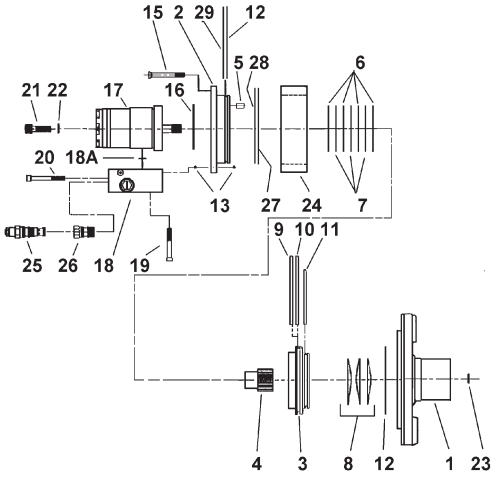
Figure 2-59: 12K, 15K, & 20K Upper Deck Winch (DP) (2 of 2)

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

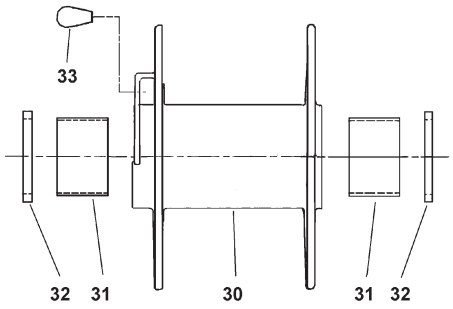
ITEM	PART NO.	DESCRIPTION	QTY.
	114241	WINCH INSTALLATION 12K, 15K, 20K DP	- -
	111351	WINCH ROLLER GUIDE DP WINCH	- -
		(OPTION INCLUDES ITEMS 37, 53-59, 61)	
1	2062-8-8S	ADAPTER 90	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	13
3	1-397-010301208	HOSE ASSEMBLY 1/2 X 208	2
4	1-861-010032-14	WASHER, FLAT 1/2	5
5	106379	WINCH TENSIONER WELDMENT	1
6	106385	PLATE AIR TENSION **(AIR TENSION RELEASE MODELS ONLY)**	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
		(AIR TENSION RELEASE MODELS ONLY)	
10	3-720-010010	SPRING COMP LEVEL WIND	1
11	3-720-010042	SPRING, AIR 6-1/2 **(AIR TENSION RELEASE MODELS ONLY)**	1
12	1-654-010141-04	SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8	2
		(AIR TENSION RELEASE MODELS ONLY)	
13	1-861-010032-10	WASHER, FLAT 3/8 **(AIR TENSION RELEASE MODELS ONLY)**	2
16	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
		(AIR TENSION RELEASE MODELS ONLY)	
17	3-155-010018-6	CABLE, 5/8 W/ LOOP**(20K)**	REF
17	3-155-010017-4	CABLE, 1/2 W/ LOOP 85 FT **(12K, 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
		(AIR TENSION RELEASE MODELS ONLY)	
22	1-297-010031-02	FITTING, BRASS PIPE **(AIR TENSION RELEASE MODELS ONLY)**	1
23	1-297-010032-03	FITTING, AIR 90 **(AIR TENSION RELEASE MODELS ONLY)**	1
24	1-297-010007-04	FITTING, AIR **(AIR TENSION RELEASE MODELS ONLY)**	2
25	1-833-010001	TUBING, NYLON 1/4 **(AIR TENSION RELEASE MODELS ONLY)**	AR
26	1-297-010007-05	FITTING, AIR 1/4 **(AIR TENSION RELEASE MODELS ONLY)**	1
27	1-297-010008-07	FITTING, AIR 90 **(AIR TENSION RELEASE MODELS ONLY)**	2
28	3-626-010004	REGULATOR, AIR PRESSURE	1
		(AIR TENSION RELEASE MODELS ONLY)	
29	3-120-010445	BRACKET, PRESSURE REGULATOR	1
		(AIR TENSION RELEASE MODELS ONLY)	
30	3-843-010022	VALVE, PNEUMATIC 4 WAY	1
		(AIR TENSION RELEASE MODELS ONLY)	
31	3-368-010125	HARNESS ASSEMBLY	1
		(AIR TENSION RELEASE MODELS ONLY)	
32	3-368-010187	HARNESS, REMOTE SWITCH	1
		(AIR TENSION RELEASE MODELS ONLY)	
33	1-765-010065	TOGGLE SWITCH SPDT **(AIR TENSION RELEASE MODELS ONLY)**	1
34	2-272-010109	ZENOR DIODE **(W/ REMOTE)**	2
		(AIR TENSION RELEASE MODELS ONLY)	
35	3-272-010018	HEAT SHRINK INSULATOR **(W/ REMOTE)**	2
		(AIR TENSION RELEASE MODELS ONLY)	

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

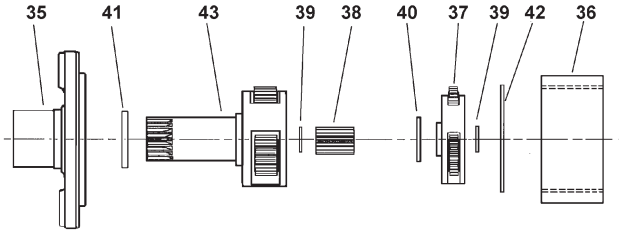
ITEM	PART NO.	DESCRIPTION	QTY.
36	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST **(W/ REMOTE)** **(AIR TENSION RELEASE MODELS ONLY)**	2
37	111387	BRACKET WELDMENT FAIRLEAD	1
38	1-297-010022-02	FITTING, AIR ANCHOR **(AIR TENSION RELEASE MODELS ONLY)**	1
39	1-297-010020-02	FITTING BRASS PIPE **(AIR TENSION RELEASE MODELS ONLY)**	1
40	905-54-107	BRAKE PROTECTION VALVE **(INCLUDES FILTER 167692)**	REF
41	1-297-010008-05	FITTING, AIR 90 **(AIR TENSION RELEASE MODELS ONLY)**	1
42	1-654-010024014	SCREW, MACH SLOT FIL HEAD #6-32 X 1-1/2 **(W/ REMOTE)** **(AIR TENSION RELEASE MODELS ONLY)**	2
43	1-861-010032-01	WASHER, FLAT #6 **(W/ REMOTE)** **(AIR TENSION RELEASE MODELS ONLY)**	2
44	1-512-010003-02	NUT, HEX LOCK #6-32 **(W/ REMOTE)** **(AIR TENSION RELEASE MODELS ONLY)**	2
46	3-348-010048	GUARD, SWITCH - 3 POSITION **(AIR TENSION RELEASE MODELS ONLY)**	1
47	3-368-010188	HARNESS, POWER JUMPER **(AIR TENSION RELEASE MODELS ONLY)**	1
48	1-297-010019-05	FITTING, BR	REF
49	750-029	JUNCTION BOX 7 STUD **(AIR TENSION RELEASE MODELS ONLY)**	1
50	1-512-010007-05	NUT, HEX 1/4-20 GRB **(AIR TENSION RELEASE MODELS ONLY)**	2
51	1-861-010032-06	WASHER, FLAT 1/4N **(AIR TENSION RELEASE MODELS ONLY)**	2
52	1-861-010034-09	WASHER, SPLIT LOCK 1/4 **(AIR TENSION RELEASE MODELS ONLY)**	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
60	111092	WINCH DP 12K AIR	1
60	111093	WINCH DP 15K MANUAL	1
60	111094	WINCH DP 15K AIR	1
60	111095	WINCH DP 20K MANUAL	1
60	111096	WINCH DP 20K AIR **(COMPONENTS - SEE PAGE2-121)**	1
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
62	1-297-010015-03	FITTING, AIR BR TEE	1



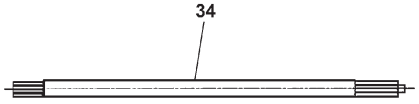
MOTOR END INSTALLATION



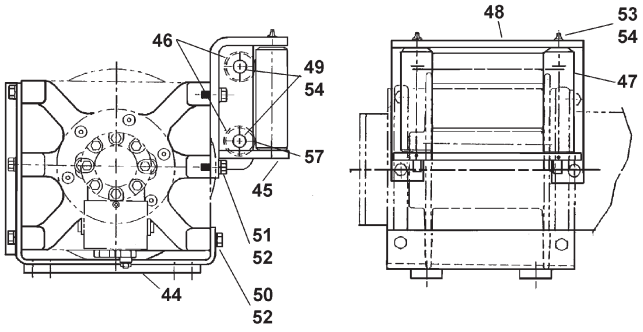
CABLE DRUM INSTALLATION



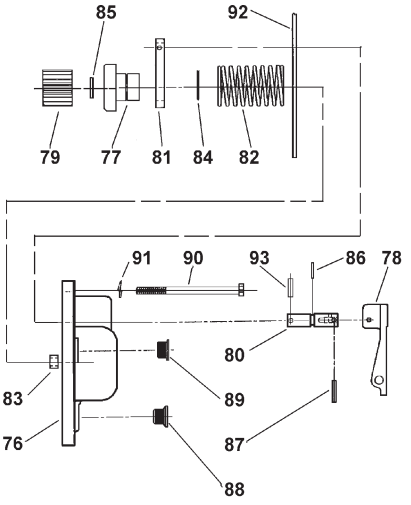
GEAR END INSTALLATION



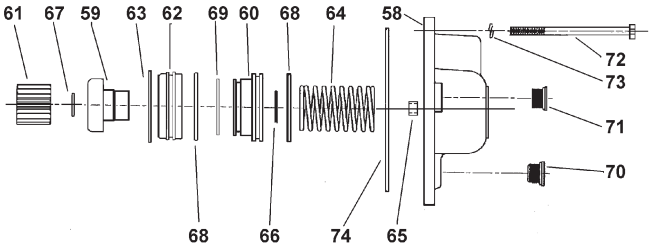
INPUT SHAFT INSTALLATION



BASE INSTALLATION



LEVER KICKOUT
GEAR END COVER INSTALLATION



AIR KICKOUT
GEAR END COVER INSTALLATION

IMPORTANT: When ordering parts call and provide the Winch Serial Number to identify the proper replacement.

Figure 2-60: 12K, 15K, & 20K Winch Components (DP Planetary)

12K, 15K, & 20K WINCH COMPONENTS (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	- -
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
17	112641	73216	MOTOR, HYDRAULIC -15K	1
17	176681	73218	MOTOR, HYDRAULIC - 20K	1
18	13894	13894	VALVE ASSEMBLY, COUNTERBALANCE	1
18	141456	9821	O-RING **(18A)**	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
30	- - - - -	12401	DRUM	1
31	- - - - -	11947	BEARING - BRONZE	2
32	- - - - -	9929	SEAL SHAFT	2
33	156528	10529	CLIP - CABLE 7/16	1
34	- - - - -	13678	INPUT SHAFT	4
35	- - - - -	13605	SUPPORT, END GEAR	1
36	- - - - -	81107	GEAR - RING	1
37	- - - - -	3412	CARRIER, PRIMARY	1
38	- - - - -	13380	GEAR, SUN	1
39	- - - - -	13385	WASHER, THRUST	2
40	- - - - -	12083	WASHER, THRUST NYLON J	1

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
41	- - - - -	13164	WASHER, THRUST NYLON	1
42	- - - - -	9897	O-RING	1
43	- - - - -	13379	CARRIER ASSEMBLY, SECONDARY	1
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
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
76	- - - - -	14182	COVER, GEAR END	1
77	- - - - -	13372	COUPLING, DRIVE	1
78	- - - - -	14099	LEVER, KICKOUT	1
79	- - - - -	13386	GEAR, SUN	1
80	- - - - -	14181	SHAFT, SIFTER	1
81	- - - - -	14183	YOKE, OVAL SHIFT	1
82	- - - - -	2309	SPRING, COMPRESSION	1
83	- - - - -	81612	BUSHING, BRONZE	1
84	- - - - -	3303	RING, RETAINER	1
85	- - - - -	3321	RING, RETAINER	1
86	- - - - -	9739	O-RING	1
87	- - - - -	3705	PIN, SPRING 3/16 X 1-1/9	1
88	- - - - -	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
89	- - - - -	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
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

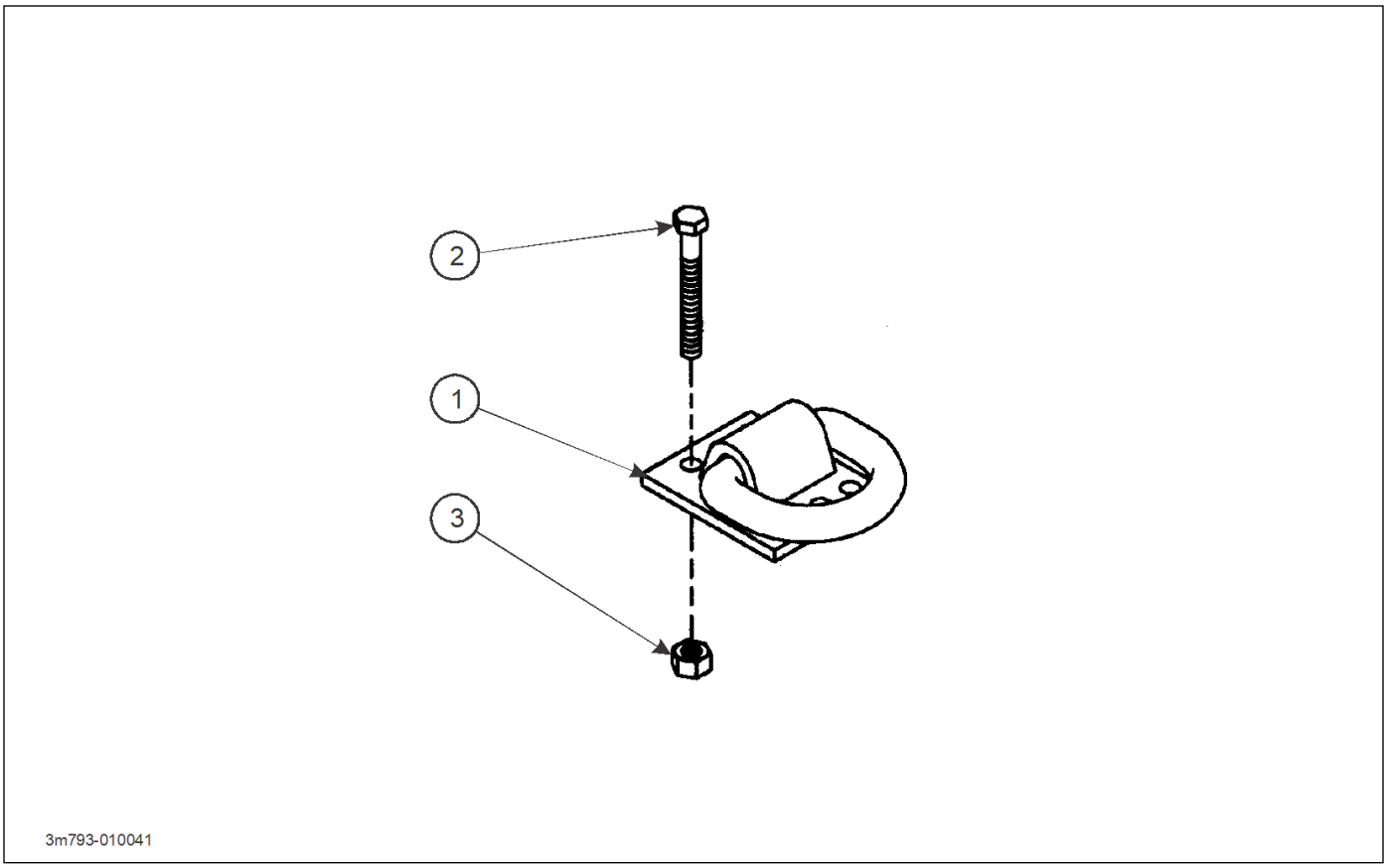


Figure 2-61: Tie Down Installation (Option)

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

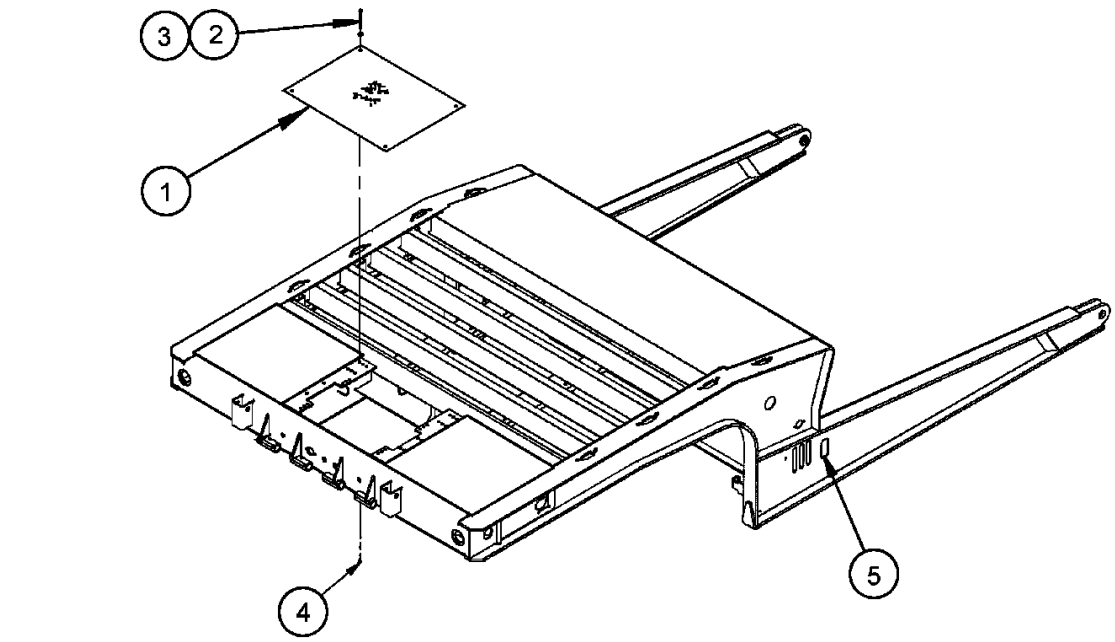


Figure 2-62: Upper Deck Cover Installation (Option)

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 GRB	4
5	1-007-010025	ADAPTER	2

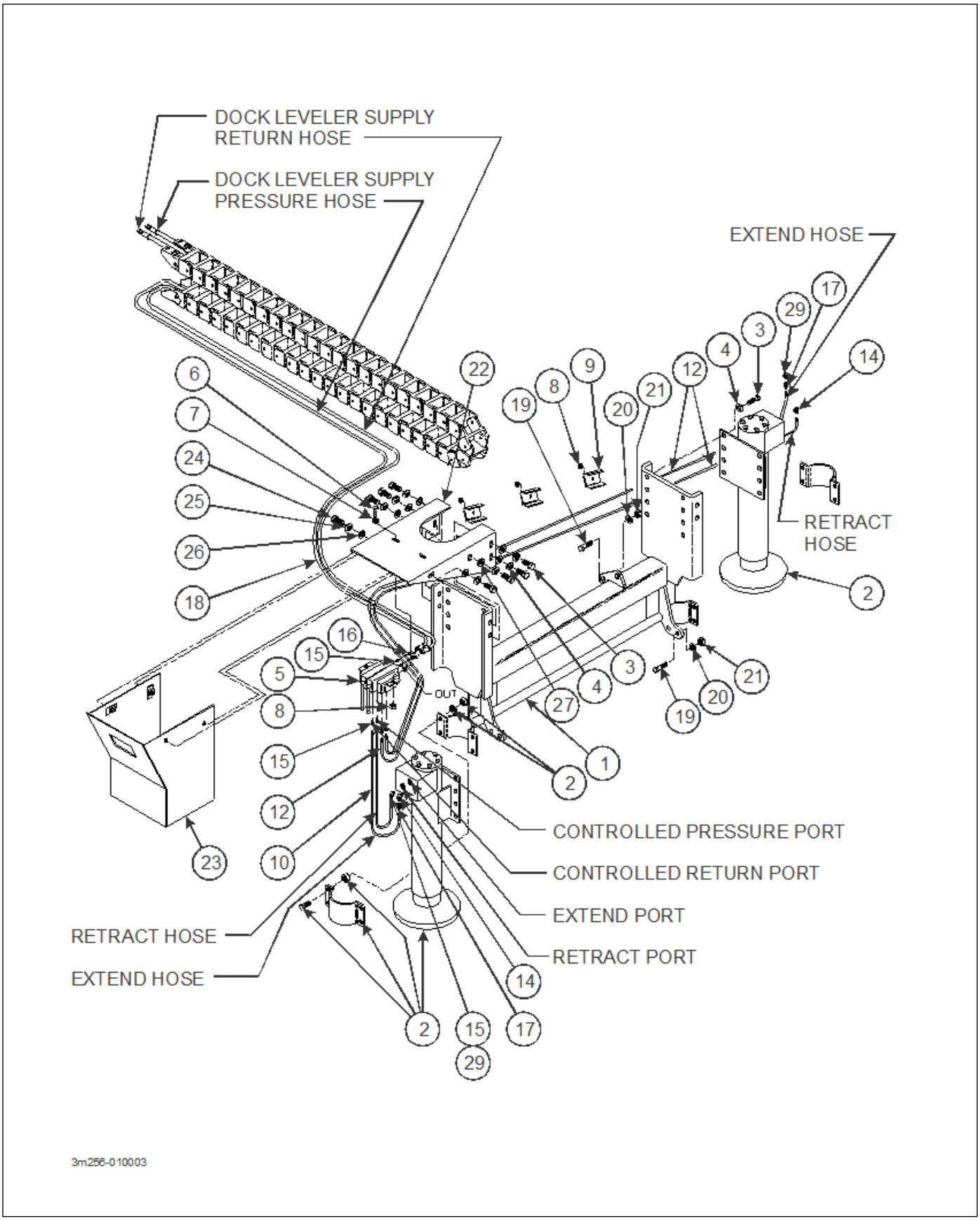


Figure 2-63: Dock Leveler Assembly, 60K (Option)

DOCK LEVELER ASSEMBLY, 60K (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.	
	3-256-010003-02	DOCK LEVEL ASSEMBLY HD	*	
	3-256-010003-08	DOCK LEVEL ASSEMBLY HD		*
1	3-482-010472	MOUNT WELDMENT, DOCK LEVEL 60K	1	1
2	3-242-010205	CYLINDER, HYDRAULIC 4X15 **(W/ COLLAR)** **(SEE PAGE 2-131)**	2	2
3	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	24	24
4	1-861-010034-15	WASHER, SPLIT LOCK 5/8	24	24
5	3-846-010056	VALVE, DOUBLE SPOOL **(SEE PAGE 2-133)**	1	1
6	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2	2
7	1-861-010032-11	WASHER, FLAT 3/8	2	2
8	1-510-010001	NUT, FLANGE LOCK 3/8-16 GRB	5	5
9	2-181-010001	CLAMP, HOSE	3	3
10	1-397-010262-4	HOSE ASSEMBLY	2	2
12	1-397-010262-3	HOSE ASSEMBLY	2	2
14	2062-6-4S	ADAPTER, 90	4	4
15	202702-6-4S	ADAPTER, STR #6	6	6
16	1-007-010041-1	ADAPTER, HYDR 45°	2	2
17	1-007-010058	ADAPTER, 90	2	2
18	1-397-010262-5	HOSE ASSEMBLY	2	-
18	1-397-010262252	HOSE ASSEMBLY	-	2
19	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8	8
20	1-861-010032-14	WASHER, FLAT 1/2N	8	8
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8	8
22	3-120-010351	BRACKET, BOLT ON DOCK LEVEL	1	1
23	3-681-010098	SHIELD, D/L VALVE R22.5	1	1
24	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4	4
25	1-861-010034-13	WASHER, SPLIT LOCK 1/2	4	4
26	1-861-010032-15	WASHER, FLAT 1/2	4	4
27	1-861-010032-18	WASHER, FLAT 5/8	4	4
29	138155	ADAPTER, 90	2	2
30	1-394-010002	HOSE, ABRASION SLEEVE X 2-7/8 **(NOT SHOWN)**	AR	AR

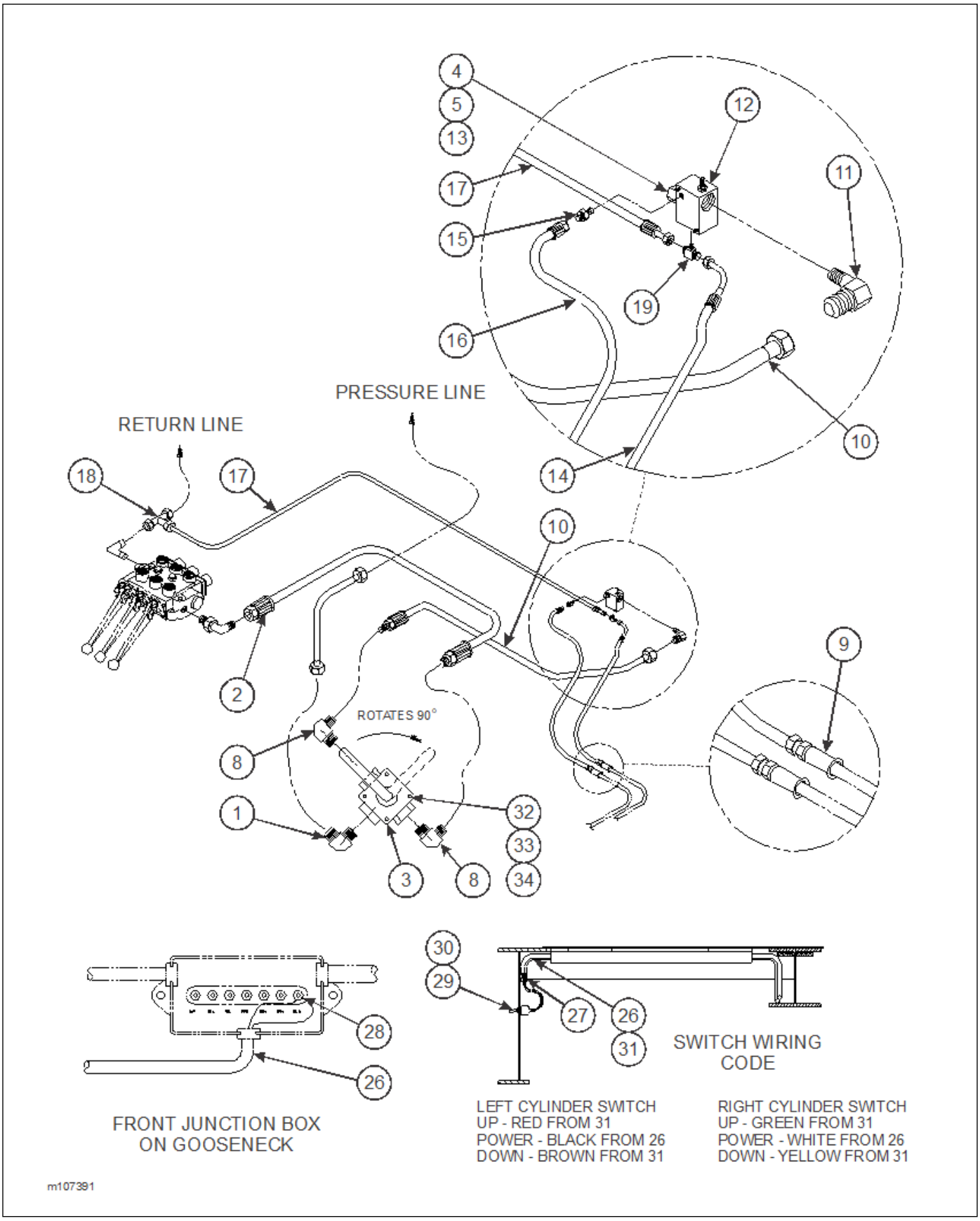


Figure 2-64: Dock Leveler Hydraulic Installation (Option)

DOCK LEVELER HYDRAULIC INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	107391	D/L HYDRAULIC INST. 48' FRONT **(ITEMS 1-34)**	
	107398	D/L HYDRAULIC INST. 53' FRONT **(ITEMS 1-34)**	
	112546	D/L HYDR. INST. 48' RR **(ITEMS 1-3, 8-23, 25, 32-34)**	
	112548	D/L HYDR. INST. 53' RR **(ITEMS 1-3, 8-23, 25, 32-34)**	
1	2062-12-12S	ADAPTER 90°	*1,2
2	1-397-010304025	HOSE ASSEMBLY	1
3	111696	VALVE HYDRAULIC SELECTOR 3-WAY	1
4	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	*2,- -
5	1-861-010032-09	WASHER FLAT 5/16W	*2,- -
8	2062-12-8S	ADAPTER 90°	*2,1
9	102-1097	37 FLARE BULKHEAD/ 37 FLARE	2
10	1-397-010301028	HOSE ASSEMBLY	1
11	2062-8-8S	ADAPTER 90°	1
12	1-626-010002-03	REGULATOR FLOW 1/2 BYPASS ONLY	1
13	1-654-010049-11	SCREW HEX HEAD CAP 5/16-18 X 2-1/2	2
14	1-397-010309296	HOSE ASSEMBLY 3/8 X 296 **(48')**	1
14	1-397-010309356	HOSE ASSEMBLY 3/8 X 356 **(53')**	1
15	202702-8-6S	ADAPTER STRAIGHT	1
16	1-397-010307296	HOSE ASSEMBLY 3/8 X 296 **(48')**	1
16	1-397-010307356	HOSE ASSEMBLY 3/8 X 356 **(53')**	1
17	1-397-010306028	HOSE ASSEMBLY 1/2 X 28	1
18	203102-12-12S	ADAPTER TEE	1
19	203003-8-8S	ADAPTER TEE	1
22	3-201-010002	CONDUIT FLEX PLASTIC 3/8 **(NOT SHOWN)**	3
23	1-796-010003-02	TIE, STRAP PLASTIC **(NOT SHOWN)**	14
24	107359	DECAL, DANGER D/L **(FRONT) (NOT SHOWN)**	1
25	107358	DECAL, DANGER D/L **(FRONT) (NOT SHOWN)**	1
25	3-573-010202	DECAL, DANGER OP D/L **(REAR) (NOT SHOWN)**	1
26	3-156-010008	CABLE, 14-2 SO TWO CONDUCTOR	AR
27	3-272-010021	ELECT BUTT SPLICE 16-14 W/ SEAL	6
28	3-272-010023	ELECT RING	2
29	3-272-010062	SWITCH TOGGLE SEALED SPDT	2
30	81264	RUBBER BOOT FOR ELECT SWITCH	2
31	3-156-010043	CABLE	REF
32	111024	SCREW, BUTTON HEAD CAP M6 X 14MM	4
33	1-861-010032-07	WASHER, FLAT 1/4	4
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4

*1ST QUANTITY USED ON P/N'S 107391 & 107398; 2ND QUANTITY USED ON P/N'S 112546 & 112548.

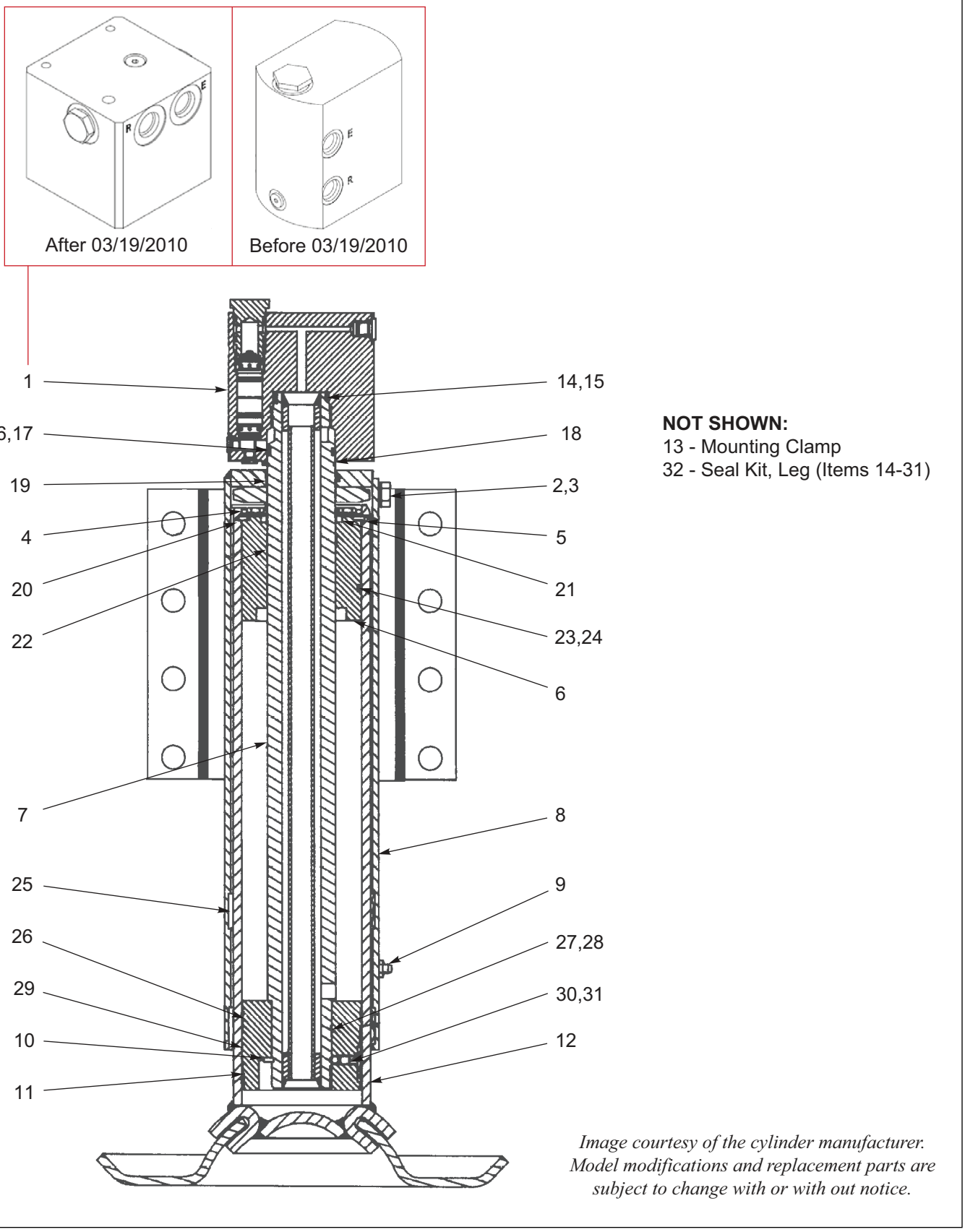


Figure 2-65: Dock Leveler Cylinder Components

DOCK LEVELER CYLINDER COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010205	CYLINDER,HYD,DK LVLR, 4X15 **(60,000LB CAPACITY, 4 INCH BORE)**	- -
1	300092	STABILIZER CHECK VALVE **(OBSOLETE AFTER 03/19/2010, ORDER 165768)**	- -
1	165768	RETROFIT KIT **(STABILIZER COUNTER BALANCE VALVE)**	1
2	- - - - -	SCREW, HEX HEAD CAP	1
3	- - - - -	LOCK WASHER	1
4	15-1012	BOLT HEX CAP	4
5	100279	BAR FL 5/8X6X30.625 80M	1
6	100276	ROD GUIDE 4IN	1
7	- - - - -	PISTON ROD **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
8	- - - - -	WELL TUBE **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE)**	1
9	- - - - -	GREASE FITTING	1
10	- - - - -	SNAP RING	1
11	- - - - -	PISTON **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE**	1
12	- - - - -	CYLINDER TUBE **(MODEL# & PART DESCRIPTION REQUIRED, CALL FOR ASSISTANCE**	1
13	100348	MTG BRKT FOR CYL 3-242-010058 **(NOT SHOWN)**	1
14	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
15	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	2
16	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
17	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	1
18	- - - - -	SNAP RING 2" ROD **(INCLUDED WITH ITEMS 32)**	1
19	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
20	- - - - -	RETAINING RING **(INCLUDED WITH ITEMS 32)**	1
21	- - - - -	OIL SEAL **(INCLUDED WITH ITEMS 32)**	1
22	- - - - -	ROD SEAL **(INCLUDED WITH ITEMS 32)**	1
23	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
24	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	1
25	- - - - -	WEAR RING **(INCLUDED WITH ITEMS 32)**	2
26	- - - - -	PISTON SEAL **(INCLUDED WITH ITEMS 32)**	1
27	- - - - -	O-RING **(INCLUDED WITH ITEMS 32)**	1
28	- - - - -	BACK-UP WASHER **(INCLUDED WITH ITEMS 32)**	2
29	- - - - -	WEAR RING **(INCLUDED WITH ITEMS 32)**	1
30	- - - - -	NYLON BALL **(INCLUDED WITH ITEMS 32)**	1
31	- - - - -	SET SCREW **(INCLUDED WITH ITEMS 32)**	1
32	100422	KIT, LEG REPAIR **(KIT INCLUDES ITEMS 14-31)**	1

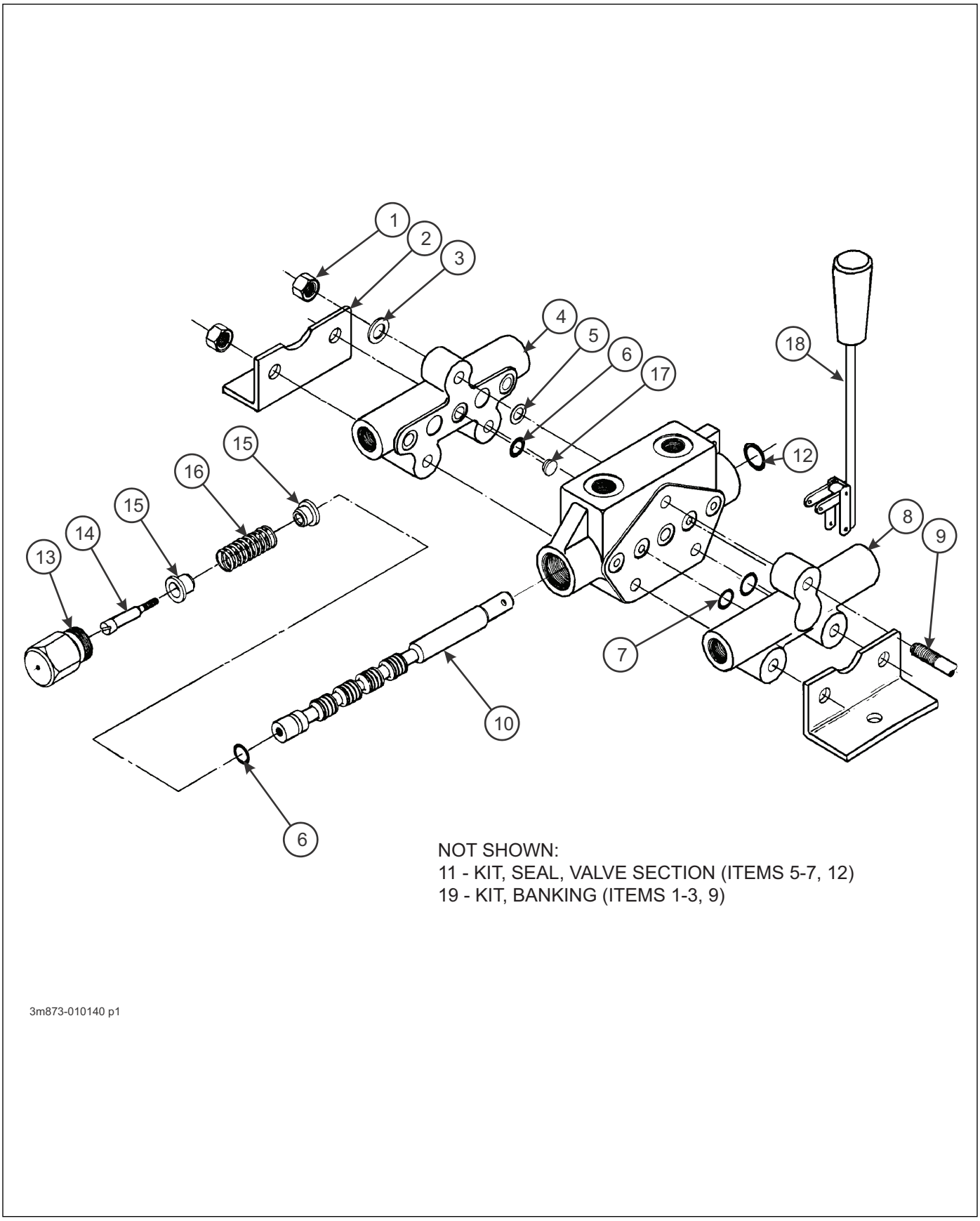


Figure 2-66: Dock Leveler Spool Valve Components

DOCK LEVELER SPOOL VALVE COMPONENTS

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
11	- - - - -	6029520	VALVE SECTION SEAL KIT **(INCLUDES ITEMS 5-7, 12)**	6
12	- - - - -	0101112	O-RING	2
13	- - - - -	4010500	SPRING CAP	2
14	4010520	4010520	SPRING SHAFT	2
15	4010530	4010530	SPRING GUIDE	4
16	- - - - -	————-	SPRING	2
17	- - - - -	4011702	CLOSED CENTER PLUG	1
18	6405000	6405000	HANDLE KIT	2
19	- - - - -	6404002	BANKING KIT **(INCLUDES ITEMS 1-3, 9)**	2

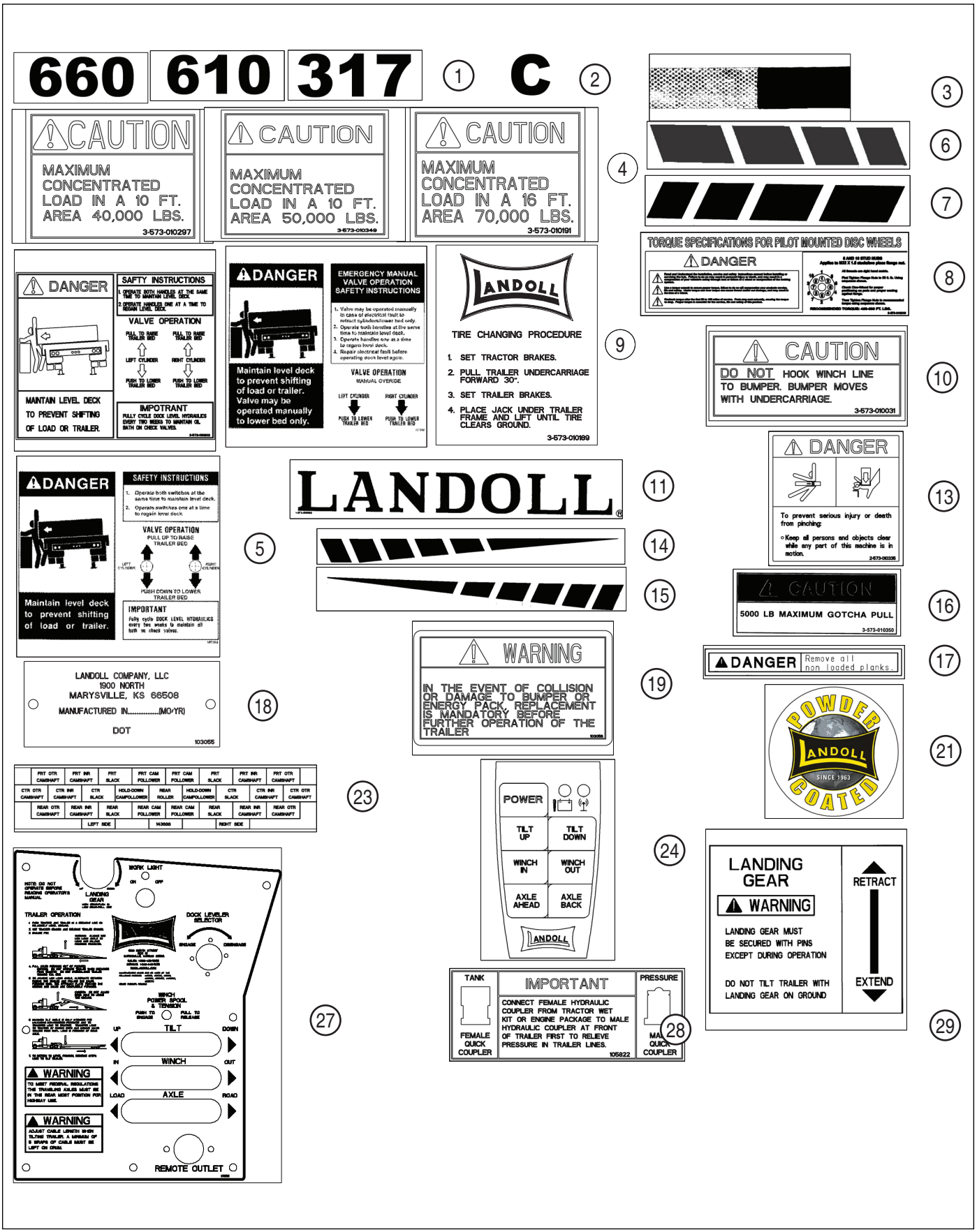


Figure 2-67: Decal Installation (1 of 3)

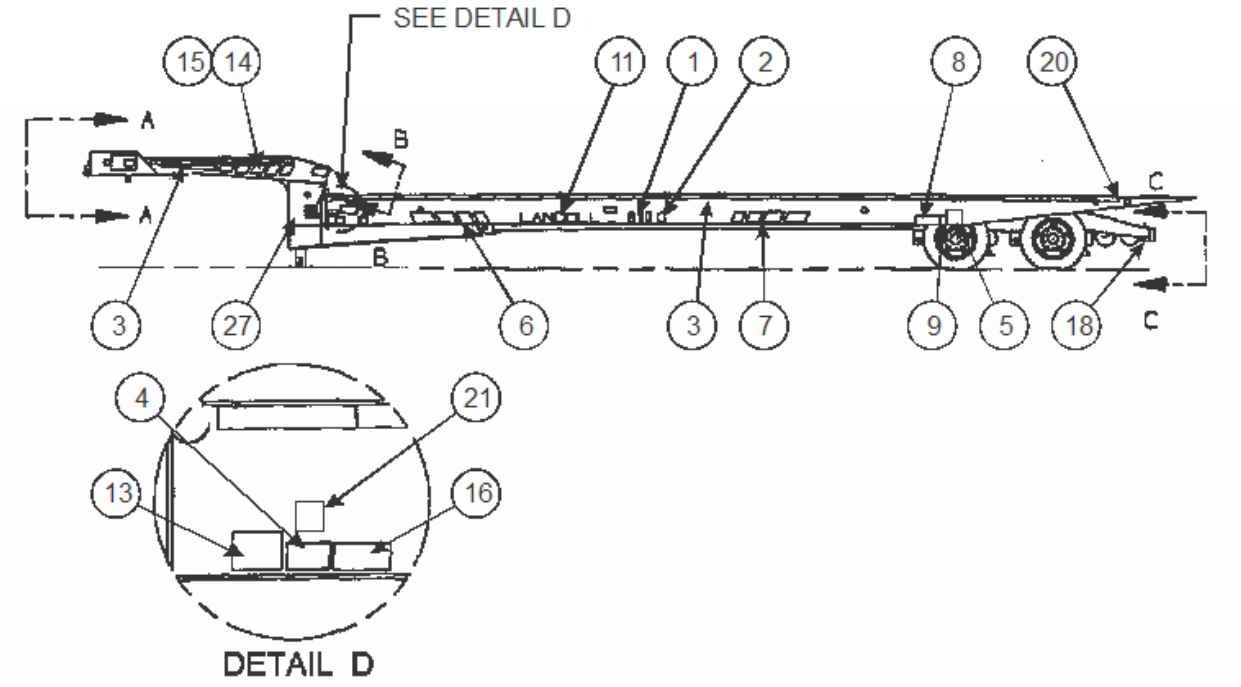


Figure 2-68: Decal Installation (2 of 3)

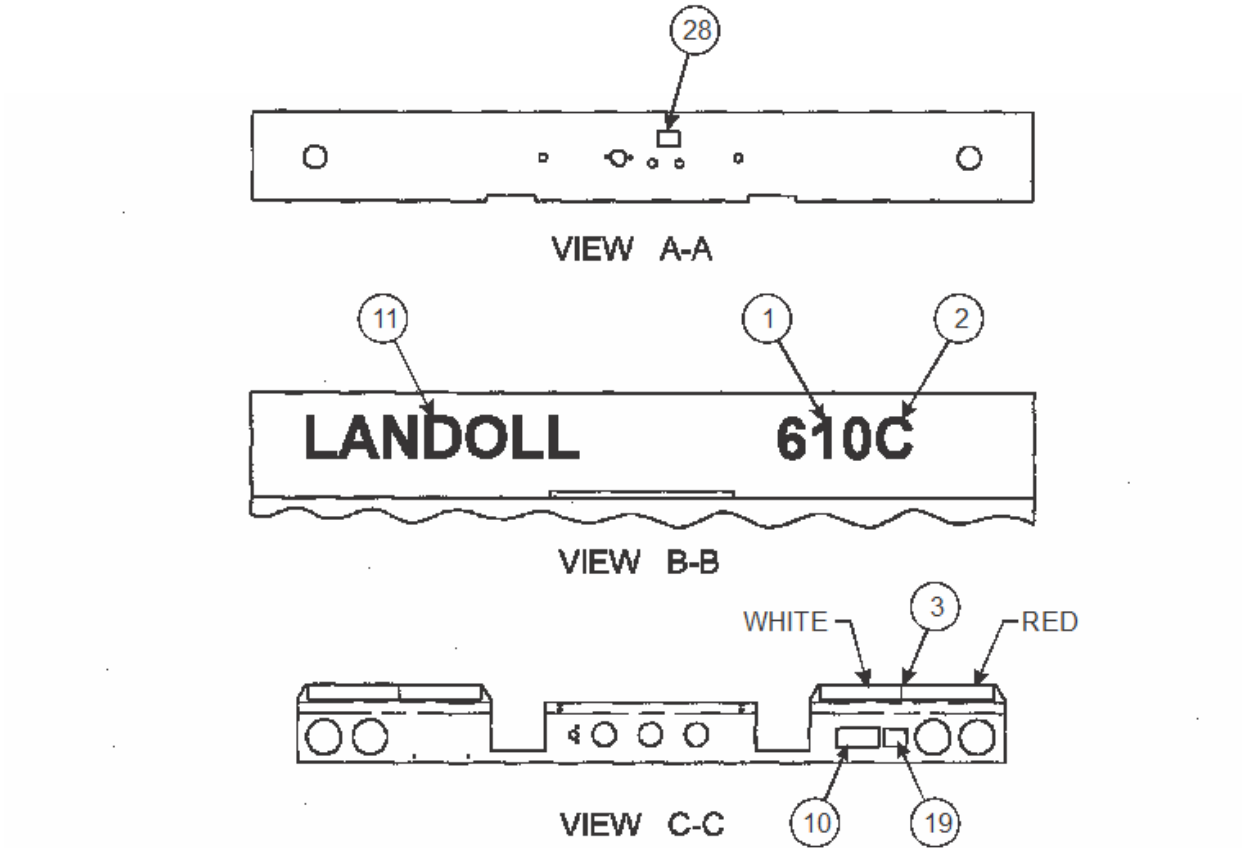


Figure 2-69: Decal Installation (3 of 3)

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
1	113513	DECAL, 660 BLACK DC 5”	3
1	113512	DECAL, 660 WHITE DC 5”	3
1	113515	DECAL, 610 BLACK DC 5”	3
1	113514	DECAL, 610 WHITE DC 5”	3
1	113520	DECAL, 317 (BLACK) DC 5"	3
		(ALSO ORDER 113513 DECAL 660 BLACK, CUT #7 FROM 317 DECAL 113520, APPLY TO 660 TO MAKE 670)	
1	113518	DECAL, 317 (WHITE) DC 5"	3
		(ALSO ORDER 113512 DECAL 660 WHITE, CUT #7 FROM 317 DECAL 113518, APPLY TO 660 TO MAKE 670)	
2	114575	DECAL, “C” (BLACK)	3
2	114574	DECAL, “C” (WHITE)	3
3	3-573-010377	DECAL, 2" REFLEXITE TAPE RD/WHT	AR
4	3-573-010297	DECAL, CAUTION 40,000#/10FT **(TANDEM AXLE)**	2
4	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	2
4	3-573-010191	DECAL, CAUTION 70,000#/16FT**(TRIPLE AXLE)**	2
5	3-573-010202	PLACARD, DANGER! DOCK LEVELER OPERATION	REF
5	107358	DECAL, DANGER D/L CONTROLS	1
5	107359	DECAL, DANGER D/L CONTROLS	1
6	3-573-010040	DECAL FRONT STRIPE **(LEFT BLACK)**	2
6	3-573-010042	DECAL FRONT STRIPE **(LEFT WHITE)**	2
7	3-573-010041	DECAL FRONT STRIPE **(RIGHT BLACK)**	2
7	3-573-010043	DECAL FRONT STRIPE **(RIGHT WHITE)**	2
8	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
9	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1
10	3-573-010031	DECAL, BUMPER	1
11	3-573-010048	DECAL LANDOLL BLACK	*3,2
11	3-573-010049	DECAL LANDOLL WHITE	*3,2
13	2-573-010335	DECAL, DANGER PINCH	4
14	3-573-010044	DECAL TAPERED STRIPE **(LEFT BLACK)**	1
14	3-573-010046	DECAL TAPERED STRIPE **(LEFT WHITE)**	1
15	3-573-010045	DECAL TAPERED STRIPE **(RIGHT BLACK)**	1
15	3-573-010047	DECAL TAPERED STRIPE **(RIGHT WHITE)**	1
16	3-573-010350	DECAL, GOTCHA PULL	2
17	101268	DECAL, DANGER PLANK **(SEE PAGE 2-13)**	REF
18	103055	DECAL, ENERGY CERTIFICATION	1
19	103056	DECAL, ENERGY BUMPER WARNING	1
20	101855	WARNING LAMP LABEL,ABS	- -
		(BEFORE 11/04/2024, OBSOLETE ORDER 252144)	
20	252144	DECAL NOTICE ABS WARNING LIGHT **(AFTER 11/04/2024)**	1
21	139559	DECAL, POWDER COATED	1
22	100600	DECAL, WARNING BRADEN WINCH	
23	143688	DECAL, GREASE TRL U/C	1
		(SEE PAGES 2-44 AND 2-44)	
24	143128	DECAL, 6 FUNCTION WINCH/TILT/AXLE **(SEE PAGE 2-41)**	1
27	139521	PLACARD, CONTROL 660 L/G	1
28	105822	DECAL, HYD COUPLER	1
29	113389	DECAL, HYDRAULIC LEG INST **(SEE PAGE 2-141)**	REF

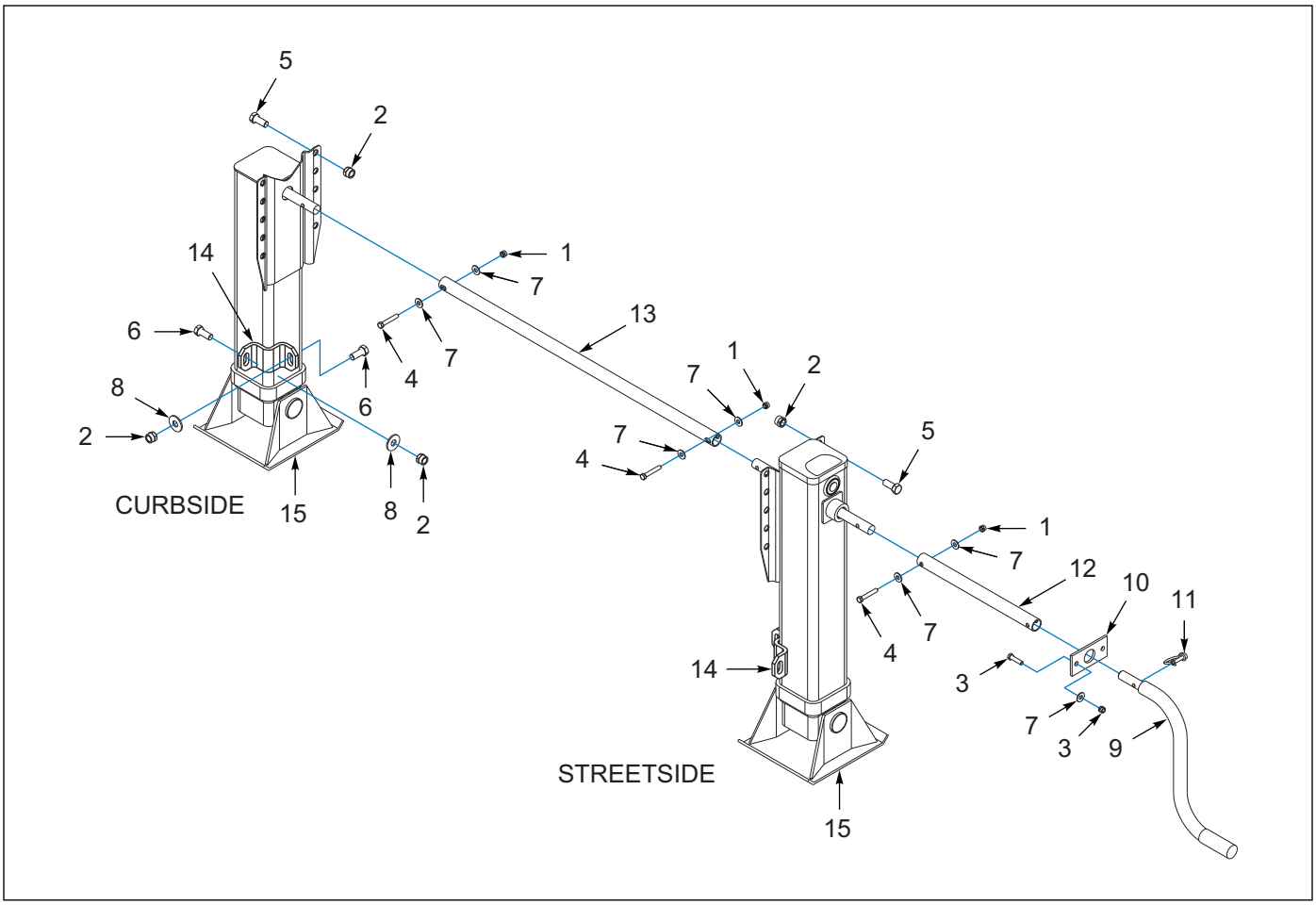


Figure 2-70: Landing Legs, Gear, 2 Spd, Pin Crank, Frt Low Mt Bkt

LANDING LEGS, GEAR, 2 SPD, PIN CRANK, FRT LOW MT BKT

ITEM	PART NO.	DESCRIPTION	QTY.
	111694	LANDING GEAR INST-JOST 660	- -
1	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	5
2	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	20
3	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	2
4	1-654-010051-10	SCREW,HX CP3/8-16X2-1/4 GR5	3
5	1-654-010059-03	SCREW 5/8-11UNCX1-1/2 HXCP G5	16
6	1-654-010059-04	SCREW,HEX CAP 5/8-11X1-3/4 G5	4
7	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	8
8	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	8
9	109161	HANDLE WLDMT CRANK MOD	1
10	111695	GUIDE,HANDLE,JOST GEAR,660	1
11	111859	PIN, 5/16X1-1/2,RD LOCKING	1
12	109159	TUBE RD EXTENSION 930 **(16-3/4")**	1
13	109160	CROSS-SHAFT LANDING GR **(40")**	1
14	104238	ANCHOR,LWR,BOLT-ON PARK STAND **(109712) (1 PER LEG)**	2
15	194882	LANDING GEAR WLDMT 2SP 660 **(SET INCLUDES ITEMS 14, 16)**	1
16	109709	2-SP LANDING GEAR JOST **(LEFT / RIGHT LEGS ONLY, REQ ITEM 14)** **(COMPONENTS - SEE PAGE 2-143)**	1

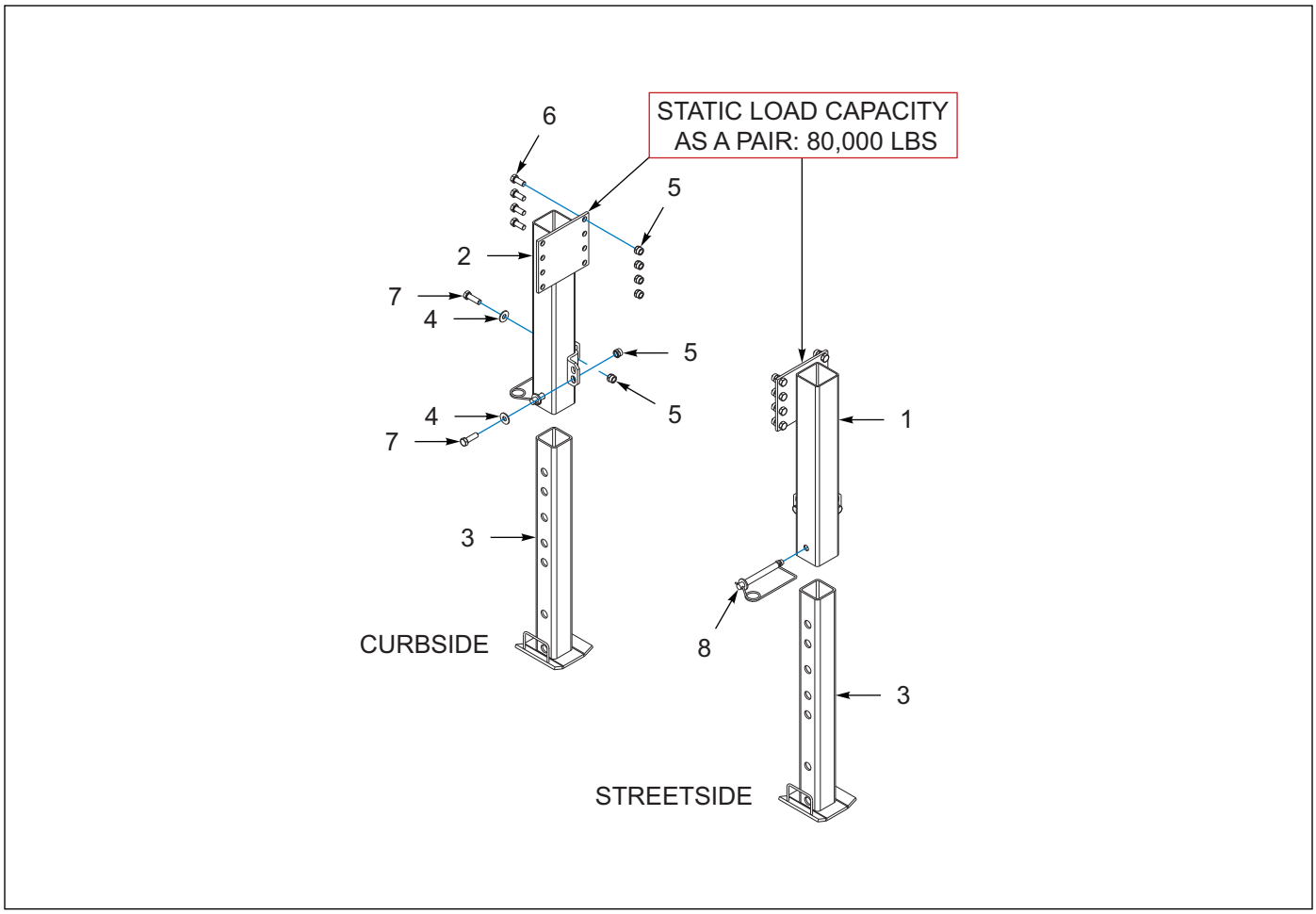


Figure 2-71: Landing Legs, Pinned (OPTION)

LANDING LEGS, PINNED (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INSTL, PIN DROP	- -
1	112678	PARK STD WLDMT,LH FRONT PIN	1
2	112679	PARK STD WLDMT,RH FRONT PIN	1
3	3-725-010058	STAND, PARK INSIDE WLDMT **(3A - 32-3/4 TUBE)**	2
4	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	4
5	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	20
6	1-654-010059-03	SCREW 5/8-11UNCX1-1/2 HXCP G5	16
7	1-654-010059-05	SCREW,HEX CAP,5/8-11UNCX2 GR5	4
8	346SL	SNAP LOCK PIN 3/4" W/ WASHER	2

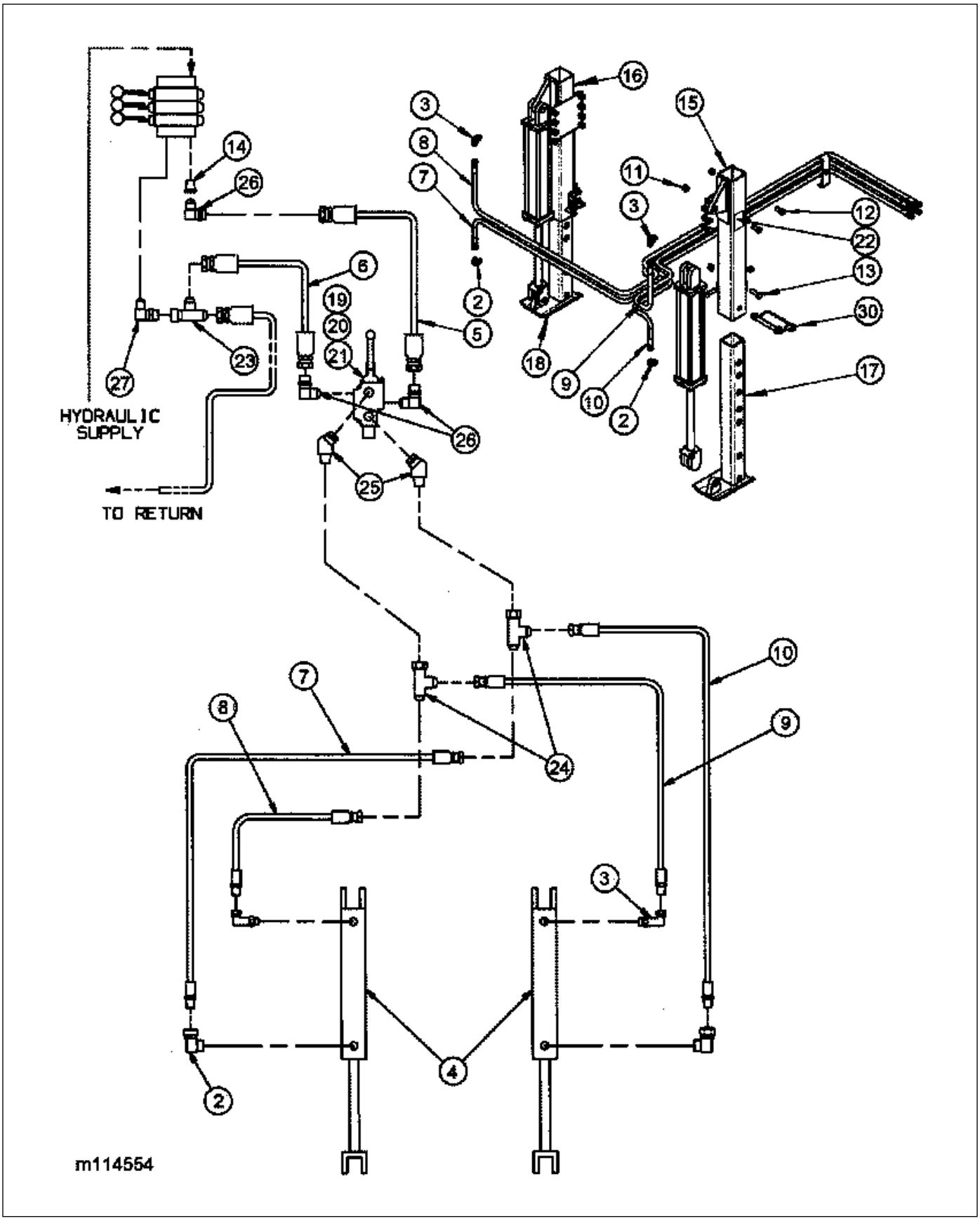


Figure 2-72: Landing Legs, Pinned, Hydraulic Lift (OPTION)

LANDING LEGS, PINNED, HYDRAULIC LIFT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	114554	HYDRAULIC LANDING GEAR	- -
2	1-007-010007	ELBOW 90	2
3	1-007-010008	ELBOW RESTRICTOR 90	2
4	1-242-010180-2	CYLINDER HYDRAULIC 3000 PSI **(SEE PAGE 2-22)**	2
5	1-397-010304026	HOSE ASSEMBLY 3/4 X 26	1
6	1-397-010304031	HOSE ASSEMBLY 3/4 X 31	1
7	1-397-010361036	HOSE ASSEMBLY 1/2 X 36	1
8	1-397-010361060	HOSE ASSEMBLY 1/2 X 60	1
9	1-397-010361084	HOSE ASSEMBLY 1/2 X 84	1
10	1-397-010361108	HOSE ASSEMBLY 1/2 X 108	1
11	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
12	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
13	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
14	1V0249	HYDR POWER BEYOND REMOTE	1
15	104239	PARK STAND WELDMENT HYDRAULIC LH BOLT-ON	1
16	104240	PARK STAND WELDMENT HYDRAULIC RH BOLT-ON	1
17	104241	PARK STAND WELDMENT HYDRAULIC LH LEG	1
18	104242	PARK STAND WELDMENT HYDRAULIC RH LEG	1
19	111276	SCREW, RD HEAD SQ NECK 3/8-16 X 1 GR5	4
20	112685	VALVE, HYDRAULIC SINGLE SPOOL	1
21	113282	BRACKET, VALVE MOUNT HYDRAULIC LEGS	1
22	113389	DECAL, HYDRAULIC LEG INSTALLATION	1
23	203102-12-12S	ADAPTER, TEE	1
24	203102-8-8S	ADAPTER, TEE	2
25	2061-8-8S	ADAPTER, 45	2
26	2062-12-12S	ADAPTER, 90	3
27	206209-12-12S	ADAPTER, 90	1
30	346SL	LOCK HITCH PIN	2

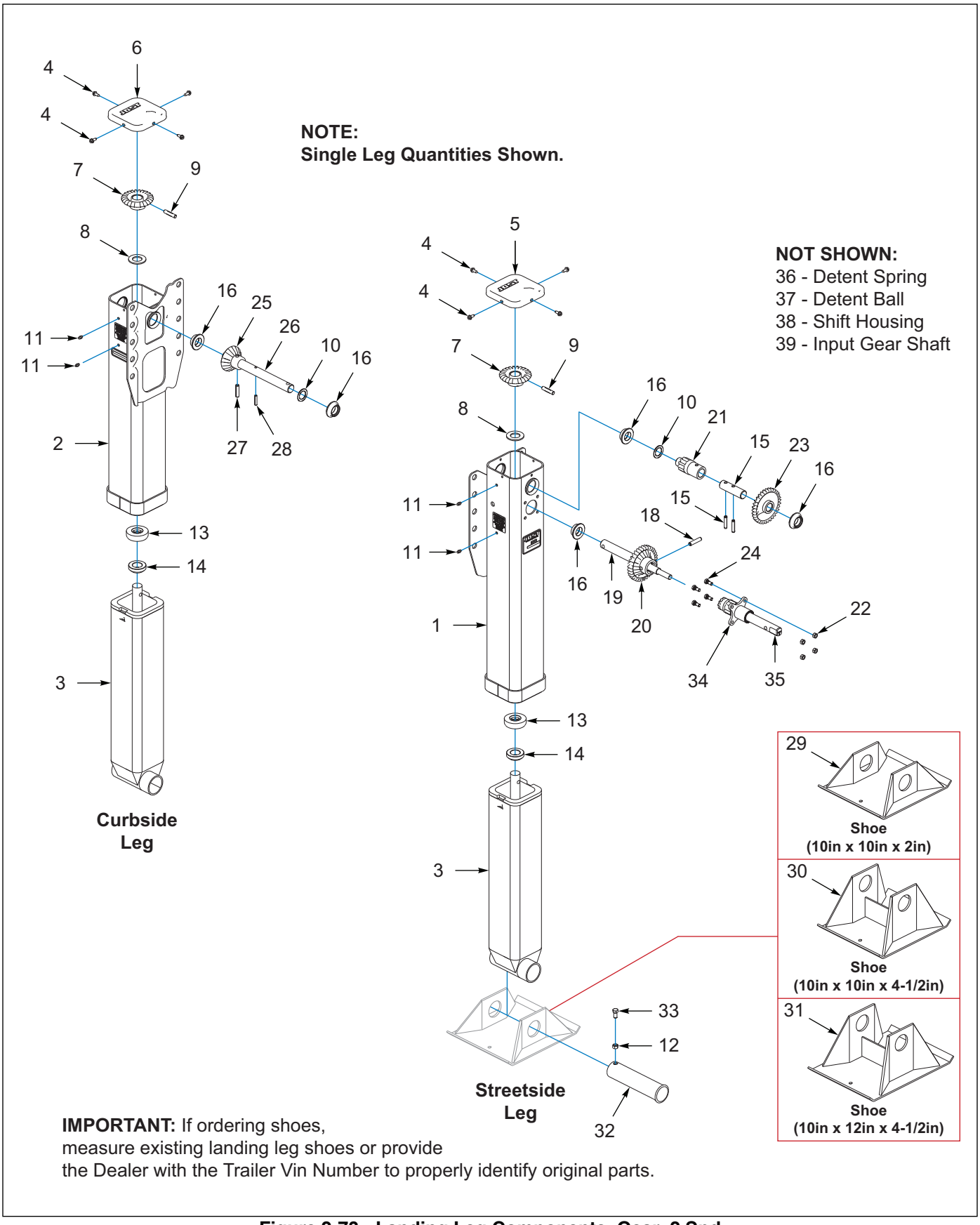


Figure 2-73: Landing Leg Components, Gear, 2 Spd

LANDING LEG COMPONENTS, GEAR, 2 SPD

ITEM	PART NO.	DESCRIPTION	QTY.
	109709	2-SP LANDING GEAR JOST **(17" TRAVEL, REQUIRES ITEM 30, SHOE 10 X 10 X 4-1/2)**	- -
1	- - - - -	UPPER HOUSING, 2 SPEED **(17" STREETSIDE)**	1
2	- - - - -	UPPER HOUSING, 1 SPEED **(17" CURBESIDE)**	1
3	165766	INNER LANDING LEG **(17" LOWER LEG ASSEMBLY)**	1
4	- - - - -	COVER SCREW	4
5	- - - - -	COVER, 2 SPEED **(STREETSIDE)**	1
6	- - - - -	COVER, 1 SPEED **(CURBSIDE)**	1
7	- - - - -	BEVEL GEAR	1
8	- - - - -	THRUST WASHER	1
9	- - - - -	GROOVED PIN	1
10	- - - - -	SPACER WASHER	1
11	- - - - -	GREASE FITTING	2
12	A10038.7	SELF LOCKING NUT	1
13	- - - - -	THRUST WASHER	1
14	- - - - -	COLLAR	1
15	- - - - -	OUTPUT SHAFT	1
16	- - - - -	BUSHING **(STREETSIDE REQ 3 EACH) (CURBSIDE REQ 2 EACH)**	- -
17	- - - - -	SPIRAL PIN	2
18	- - - - -	ROLL PIN 3/8 X 1-3/4	1
19	- - - - -	OUTPUT CLUSTER SHAFT	1
20	- - - - -	OUTPUT CLUSTER SHAFT GEAR	1
21	- - - - -	OUTPUT SPUR GEAR	1
22	- - - - -	SELF LOCKING NUT	4
23	- - - - -	INPUT SPUR GEAR	1
24	- - - - -	SHIFT HOUSING BOLT	4
25	- - - - -	PINION GEAR, 1 SPEED	1
26	- - - - -	PINION SHAFT, 1 SPEED	1
27	- - - - -	ROLL PIN 3/8 X 1-1/2	1
28	- - - - -	ROLL PIN 1/4 X 1-1/4	1
29	129198	SHOE, JOST, LOW PROFILE **(10 IN X 10 IN X 2 IN)**	1
30	114529	JOST C10035 SHOE FOR 109709 **(10 IN X 10 IN X 4-1/2 IN)**	1
31	C10256	SAND SHOE **(10 IN X 12 IN X 4-1/2 IN)**	1
32	114983	SHOE AXLE B10036 FOR 109709 **(PIN)**	1
33	A10037.3	HEX HEAD BOLT	2
34	163502	SHAFT HOUSING SERVICE KIT **(KIT INCLUDES ITEMS 36-38)**	1
35	207360	SHIFT HOUSING SERVICE KIT **(KIT INCLUDES ITEMS 36-39)**	1
36	- - - - -	DETENT SPRING **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	1
37	- - - - -	DETENT BALL **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	2
38	- - - - -	SHIFT HOUSING **(INCLUDED WITH ITEMS 34-35, NOT SHOWN)**	1
39	- - - - -	INPUT GEAR SHAFT **(INCLUDED WITH ITEMS 35, NOT SHOWN)**	1

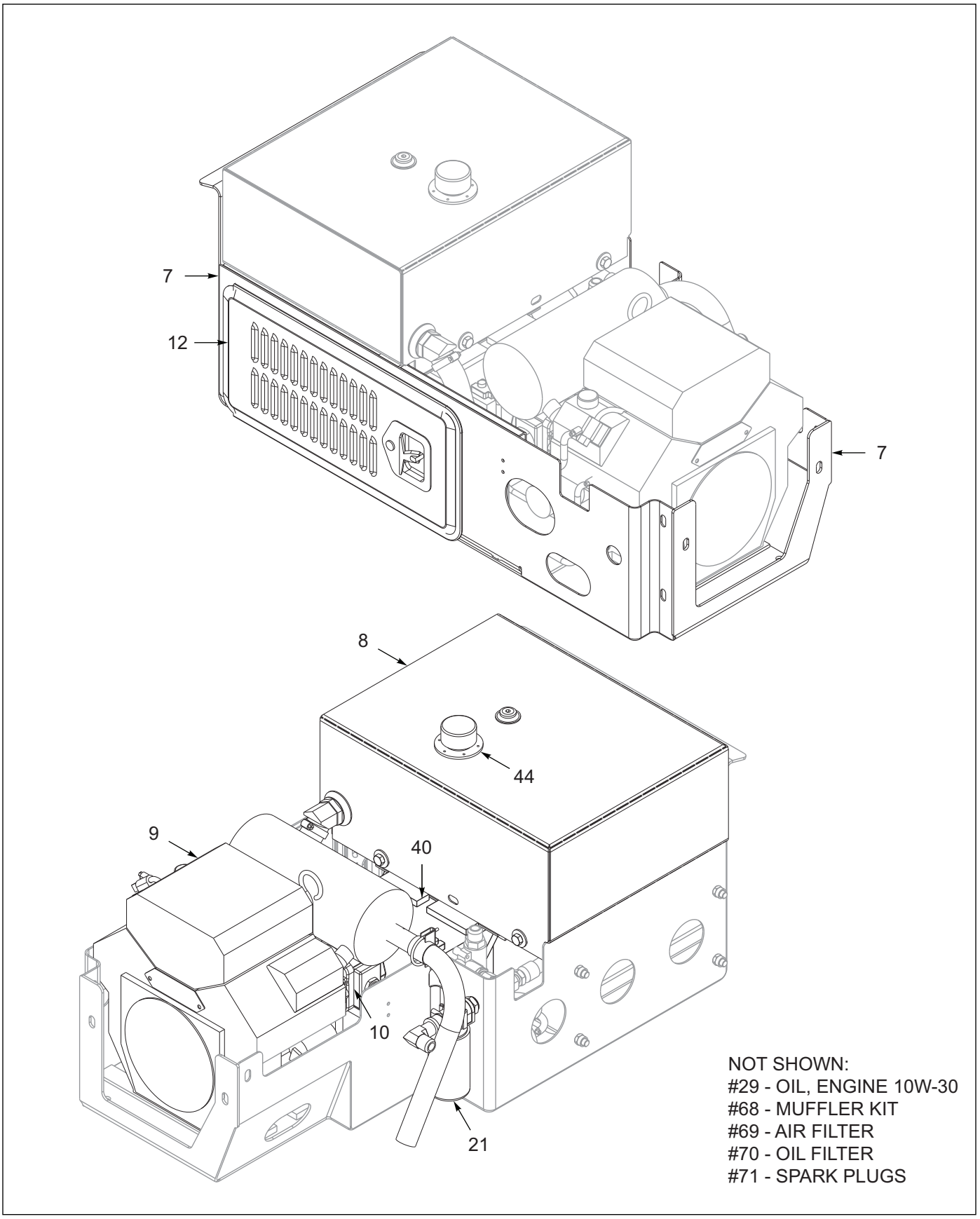


Figure 2-74: 25 HP Engine, 15 Gallon (OPTION) (BEFORE 03/09/2012) (1 of 5)

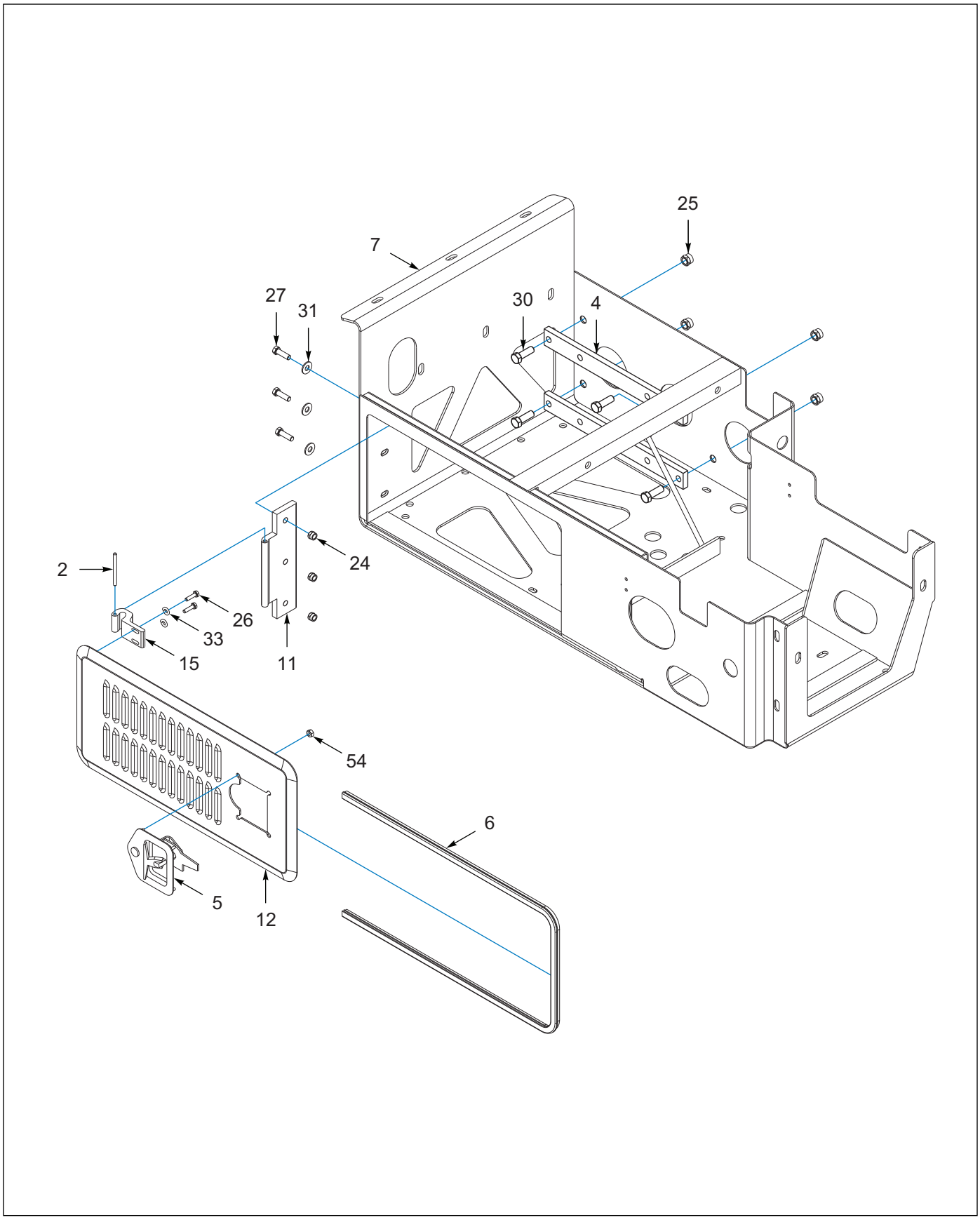


Figure 2-75: 25 HP Engine, 15 Gallon (OPTION) (BEFORE 03/09/2012) (2 of 5)

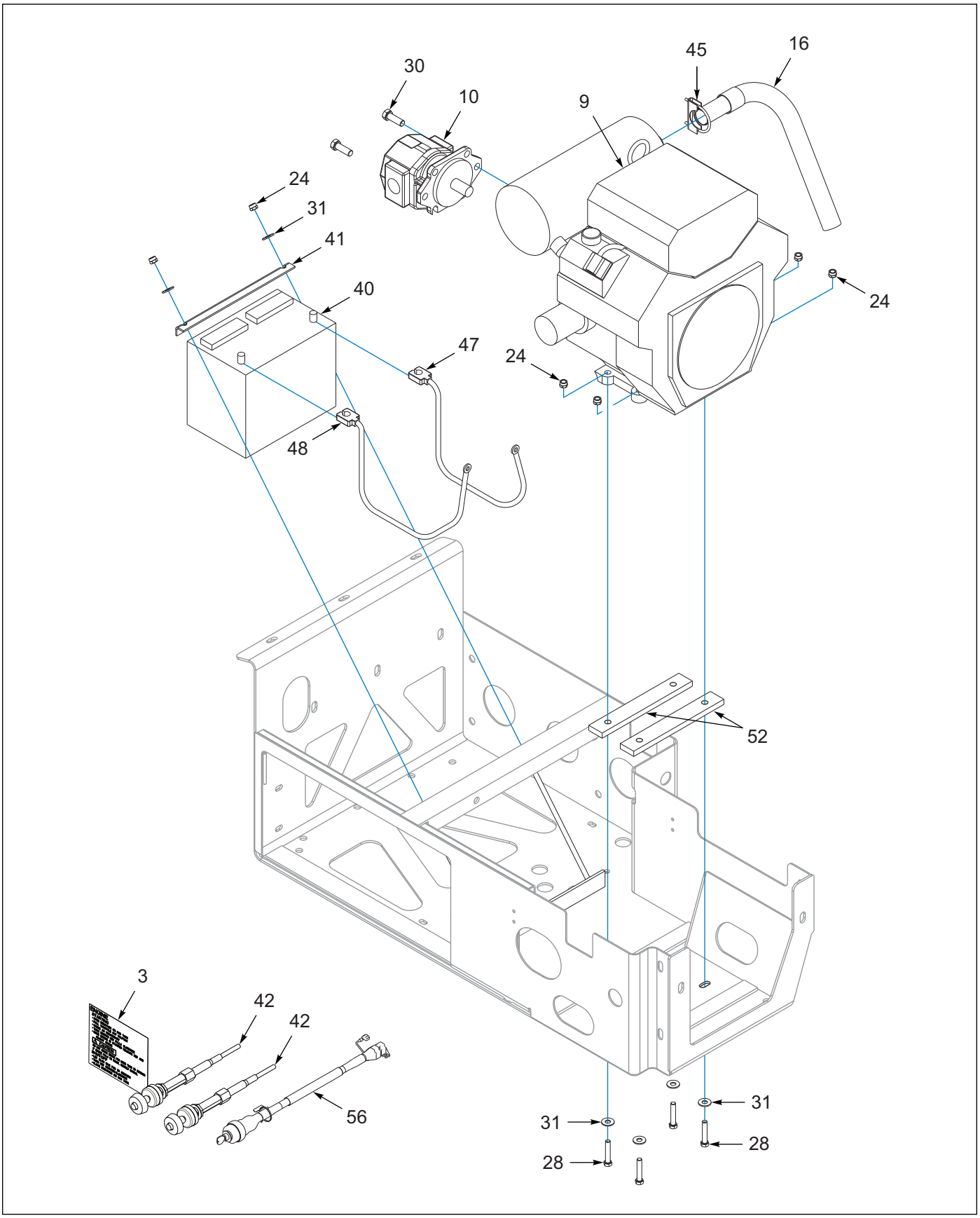


Figure 2-76: 25 HP Engine, 15 Gallon (OPTION) (BEFORE 03/09/2012) (3 of 5)

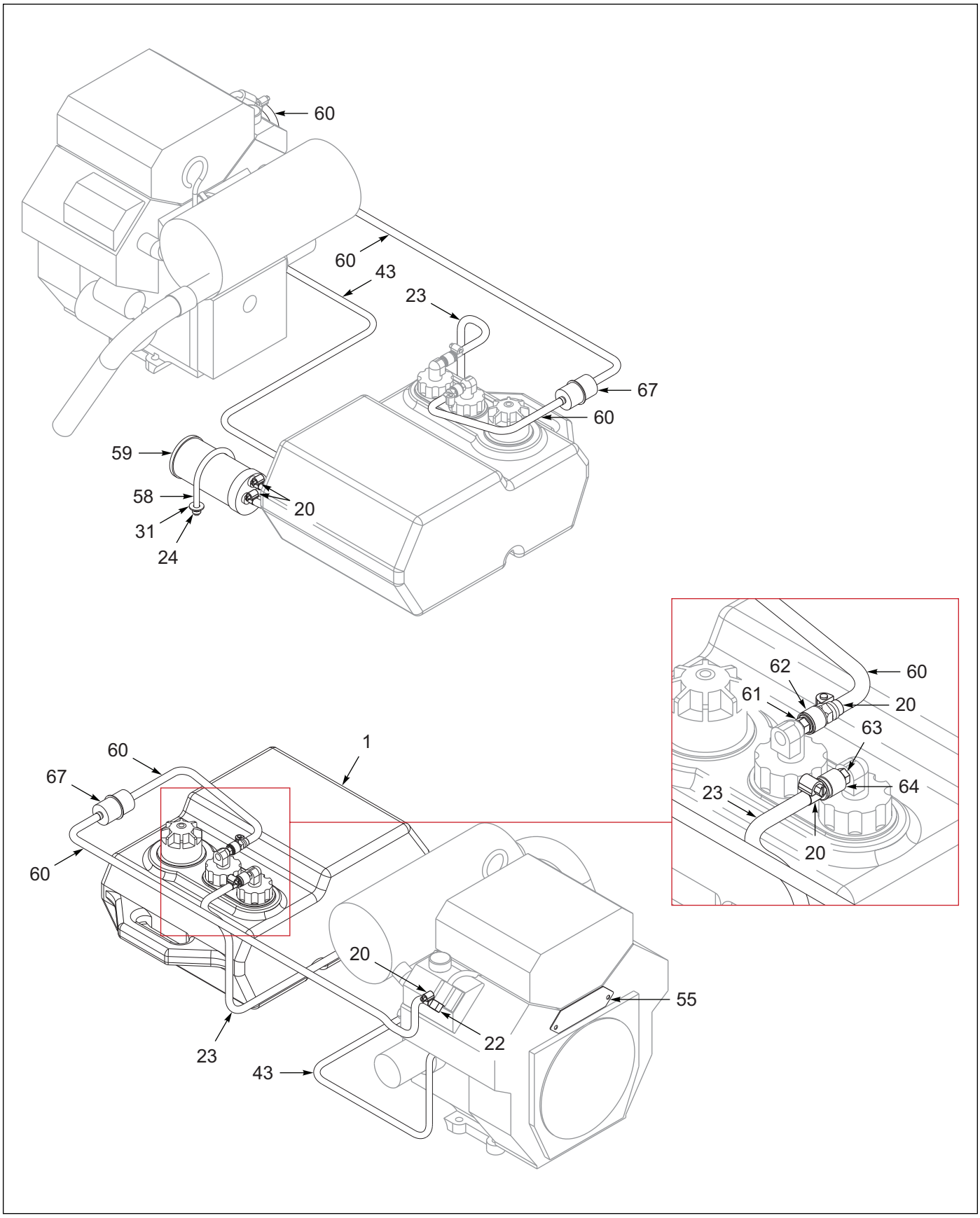


Figure 2-77: 25 HP Engine, 15 Gallon (OPTION) (BEFORE 03/09/2012) (4 of 5)

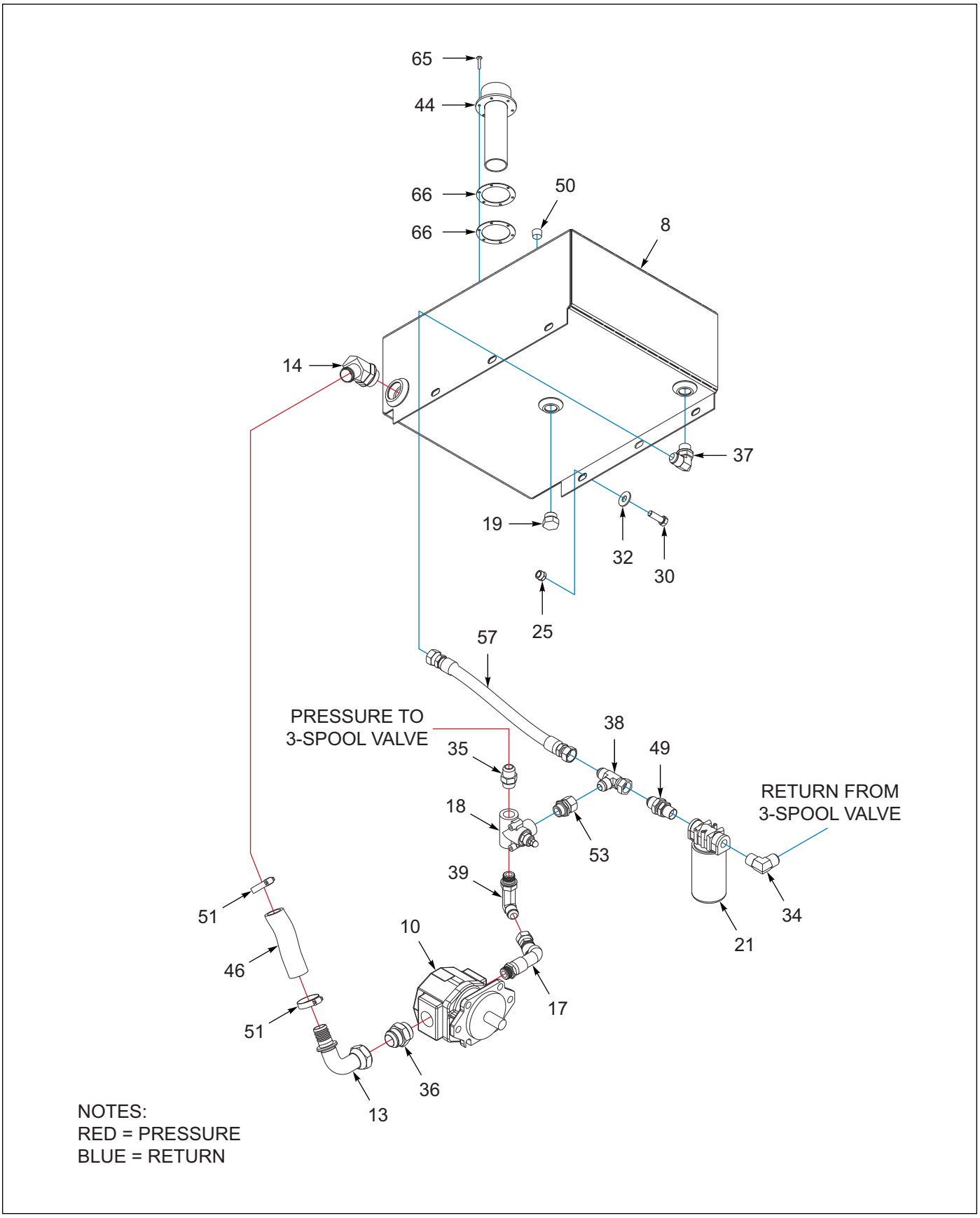


Figure 2-78: 25 HP Engine, 15 Gallon (OPTION) (BEFORE 03/09/2012) (5 of 5)

25 HP ENGINE, 15 GALLON (OPTION) (BEFORE 03/09/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	ENG PKG 25HP GAS COMMON	- -
1	- - - - -	TANK,FUEL PLSTC,6 GAL,LOW PERM **(OLD STYLE 169531-V2)**	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL,ENG PKG INSTR 600/900	1
4	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	2
5	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WLDMT,ENG PKG,25 HP	1
8	120662	HYD TANK WLDMT, 15G E/P	1
9	127813	ENGINE,KOHLER 25HP, PUMP MNT **(INCLUDES ITEM 68-MUFFLER KIT)**	1
10	115888	PUMP, HYDRAULIC 0.88CID GEAR	1
11	116326	HINGE,BASE MNT, COM ENG PKG	1
12	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
13	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
14	117873	FITTING,1.63-12 SAE-1 25H/B45	1
15	119206	HINGE, DOOR ENG DRV, 25HP	2
16	119445	EXHAUST EXT WLDMT 25HP E/P	1
17	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
18	120661	VALVE,HYD PRES,#12SAE,2500P	1
19	900598-12S	PLUG, O-RING BOSS #12	1
20	105-0105	CLAMP,HOSE IDEAL 6203	6
21	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
22	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
23	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
24	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	11
25	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	9
26	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
27	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
28	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	4
29	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON, NOT SHOWN)**	.5
30	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	11
31	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	11
32	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	5
33	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
34	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
35	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE	1
36	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092)**	1
37	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	1
38	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
39	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE	1
40	2481X	BATTERY 12 VOLT	1
41	3-120-010124	BATTERY CLAMP BRKT	1
42	3-155-010012	CABLE THROTTLE **(200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)**	2
43	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	5
44	3-162-010001	FILLER BREATHER STRAINER ASSY	1
45	3-182-010028	CLAMP MUFFLER	1
46	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION	1

25 HP ENGINE, 15 GALLON (OPTION) (BEFORE 03/09/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
47	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
48	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
49	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
50	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
51	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
52	120659	ISOLATOR, KOHLER 25HP MOUNT	2
53	120660	ADAPTER #12-O/RFEM-12#FL M	1
54	115877	NUT HVY HEX 1/4-20 GR5	4
55	123014	PLATE, MOTOR FRONT, 25HP E/P	1
56	113544	HARNESS,ENG PKG IGN,600/900 **(SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)**	1
57	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
58	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
59	166766	CARBON CANISTER,FUEL TANK,GAS	1
60	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
61	170109	FITTING,1/4MPT TO MALE QD,FORC	1
62	170110	FITTING,5/16BARB TO FE QD,FORC	1
63	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
64	170112	FITTING,5/16BARB TO FE QD,SUZU	1
65	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
66	223220	GASKET, HYD TANK FILLER	2
67	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1
68	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
69	192744	AIR FILTER **(NOT SHOWN)**	1
70	192745	OIL FILTER **(NOT SHOWN)**	1
71	192746	SPARK PLUGS **(SET OF 4, NOT SHOWN)**	1

Table provided for general use.

NOTES:

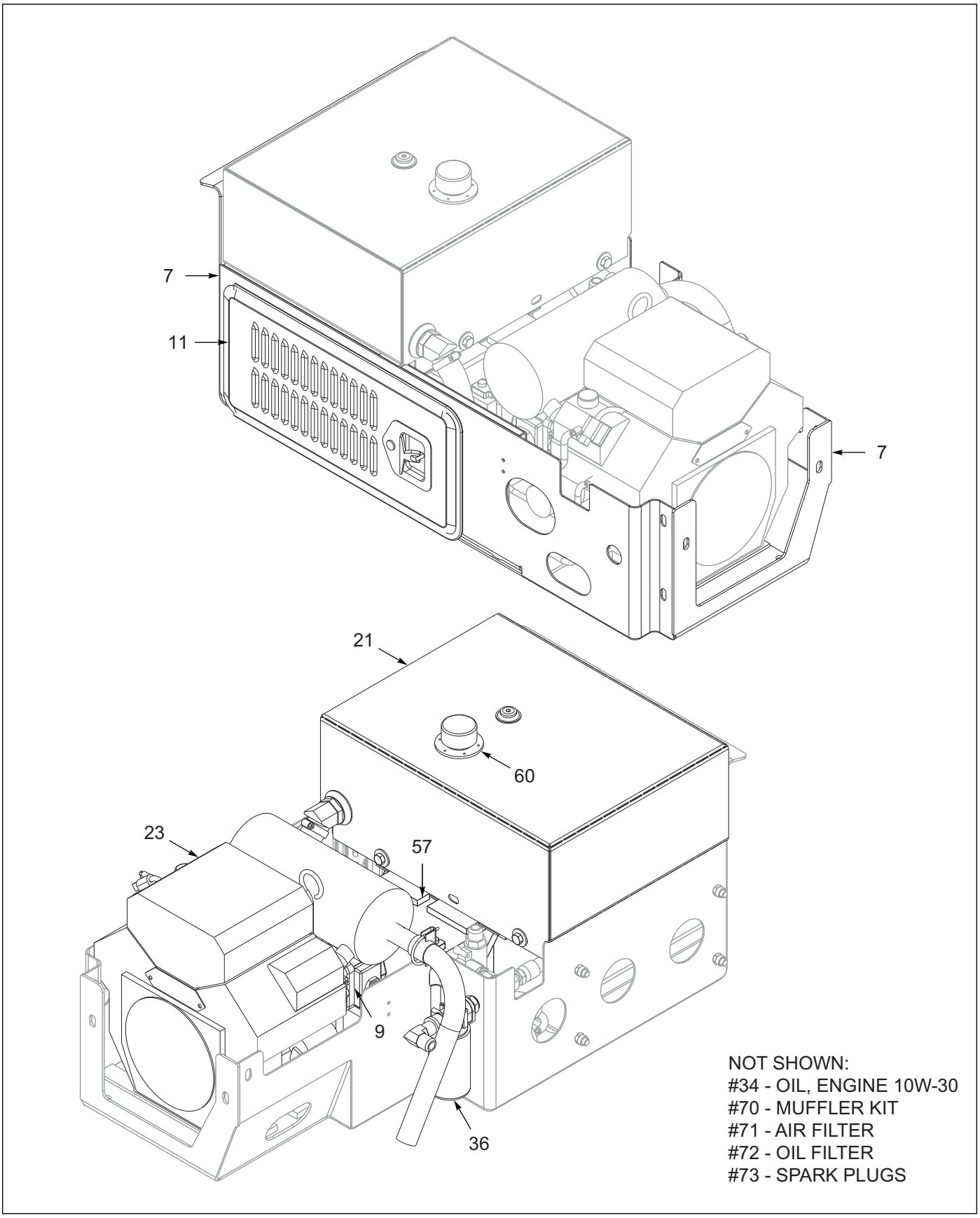


Figure 2-79: 25 HP Engine, 15 Gallon (OPTION) (AFTER 03/09/2012) (1 of 5)

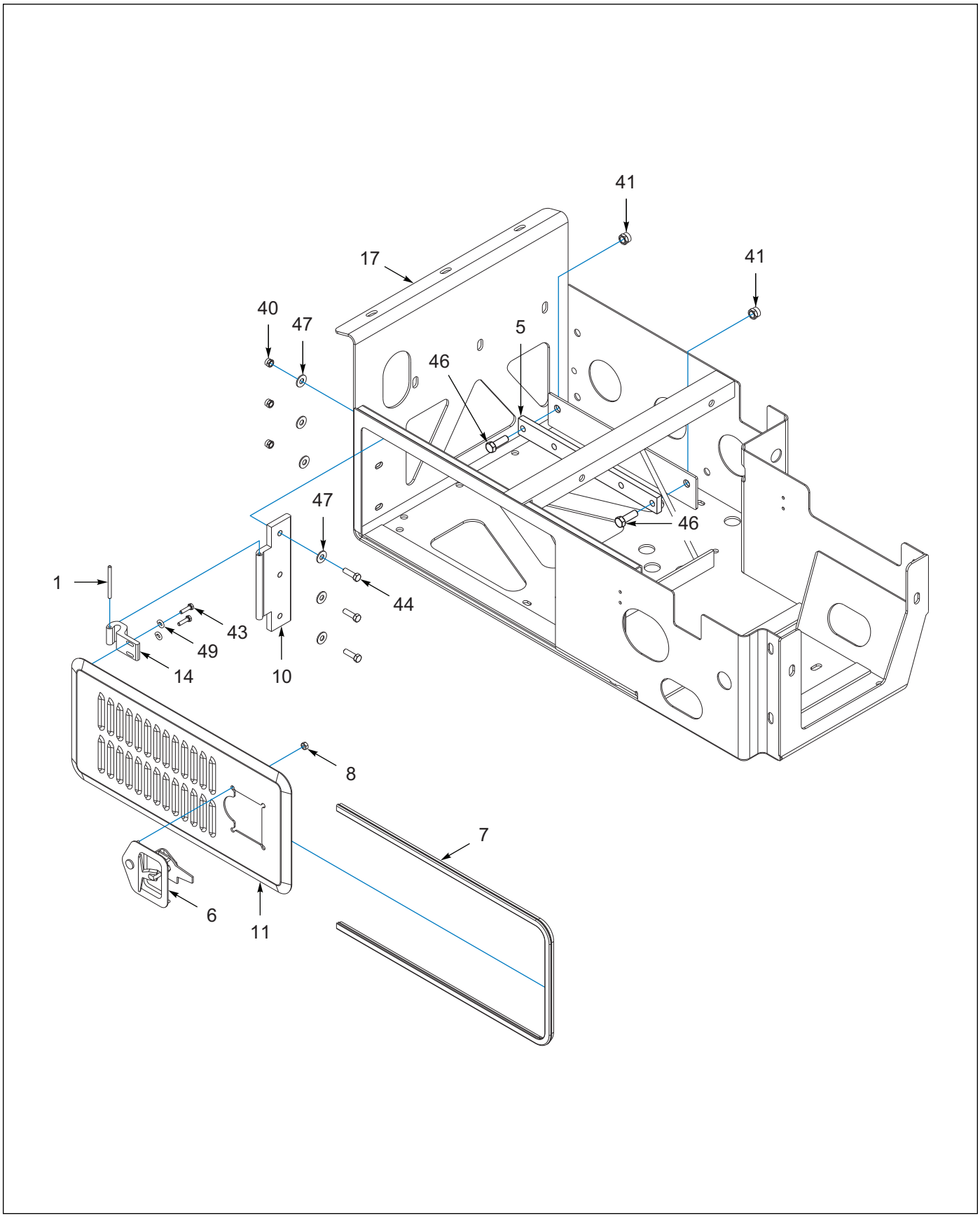


Figure 2-80: 25 HP Engine, 15 Gallon (OPTION) (AFTER 03/09/2012) (2 of 5)

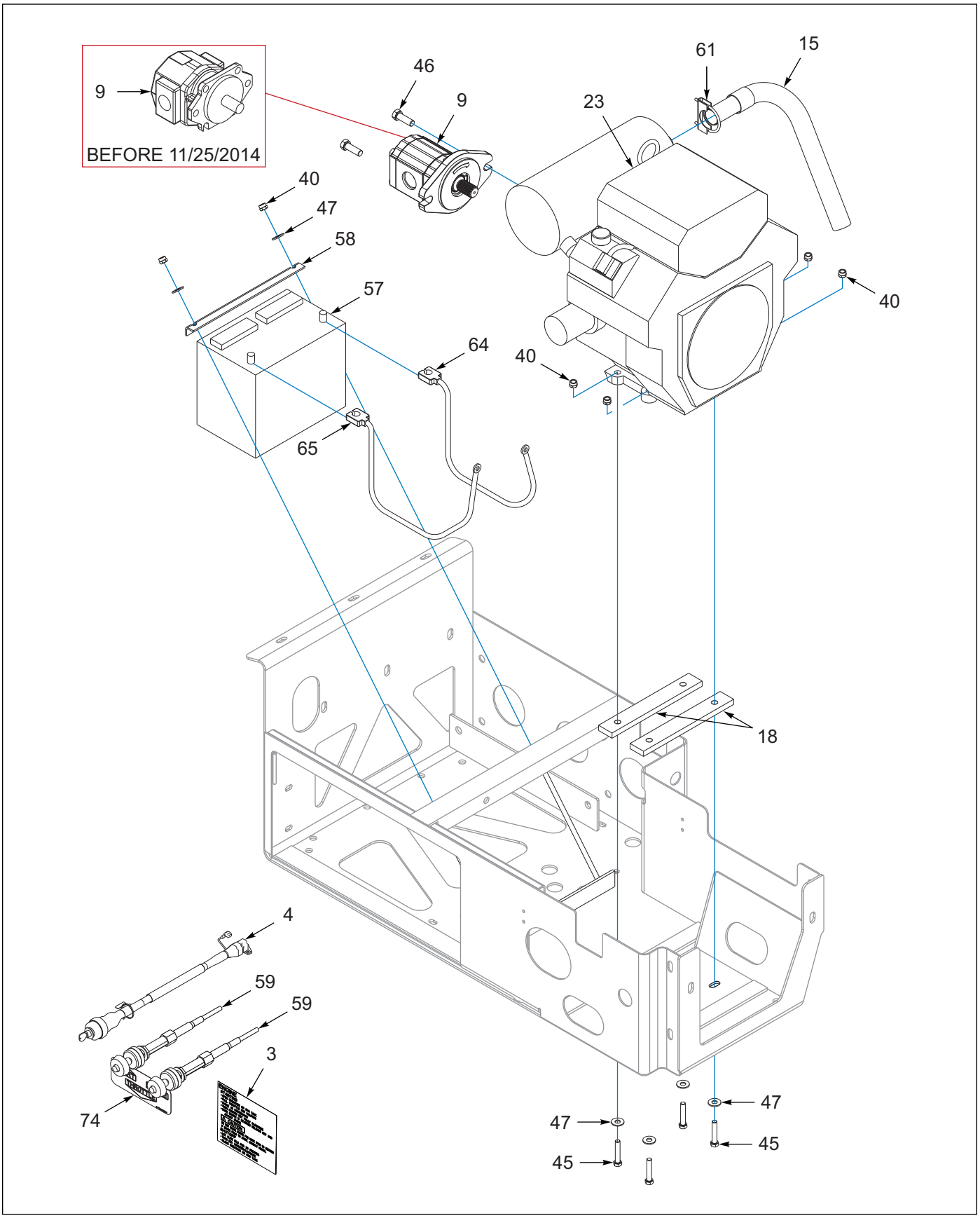


Figure 2-81: 25 HP Engine, 15 Gallon (OPTION) (AFTER 03/09/2012) (3 of 5)

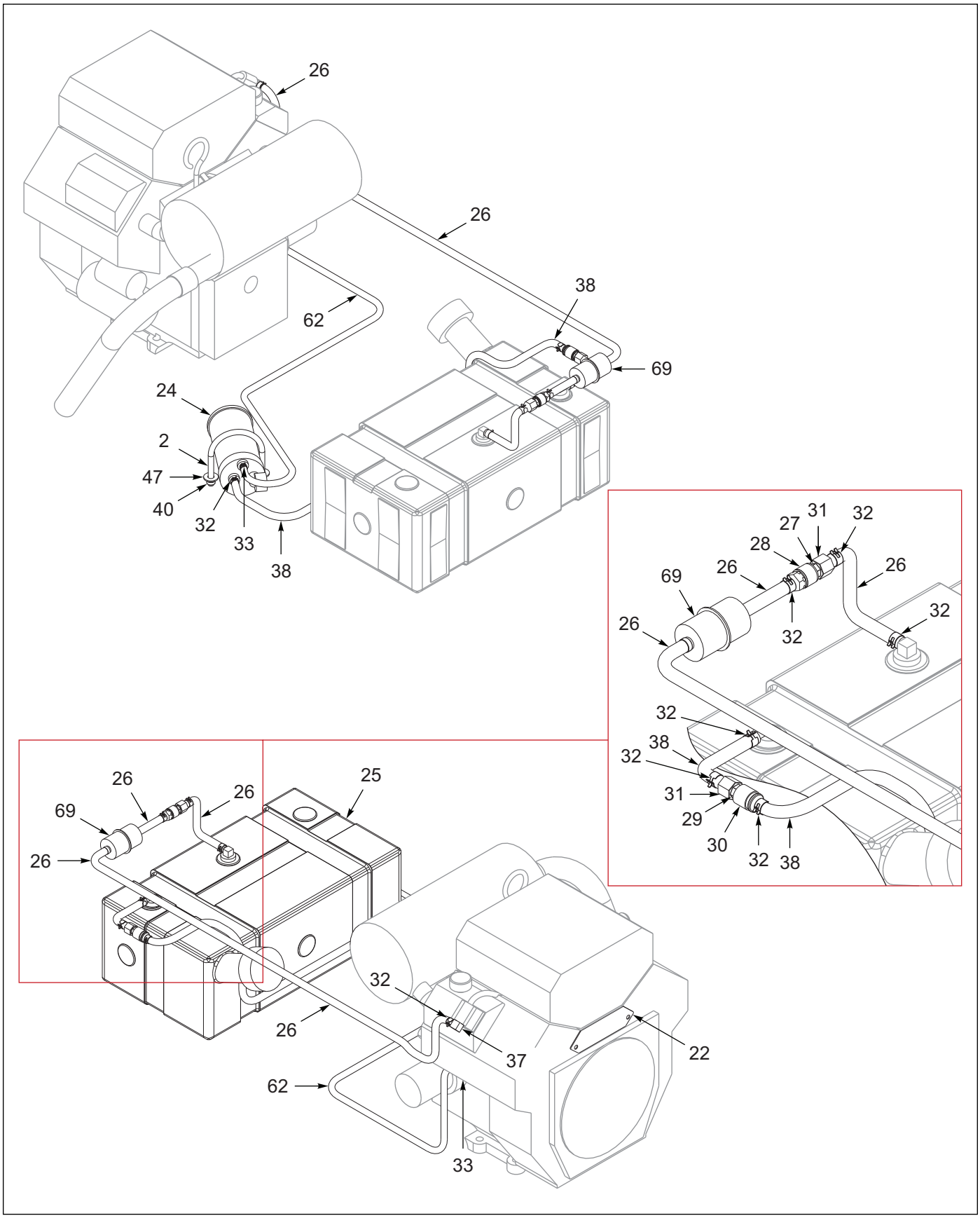


Figure 2-82: 25 HP Engine, 15 Gallon (OPTION) (AFTER 03/09/2012) (4 of 5)

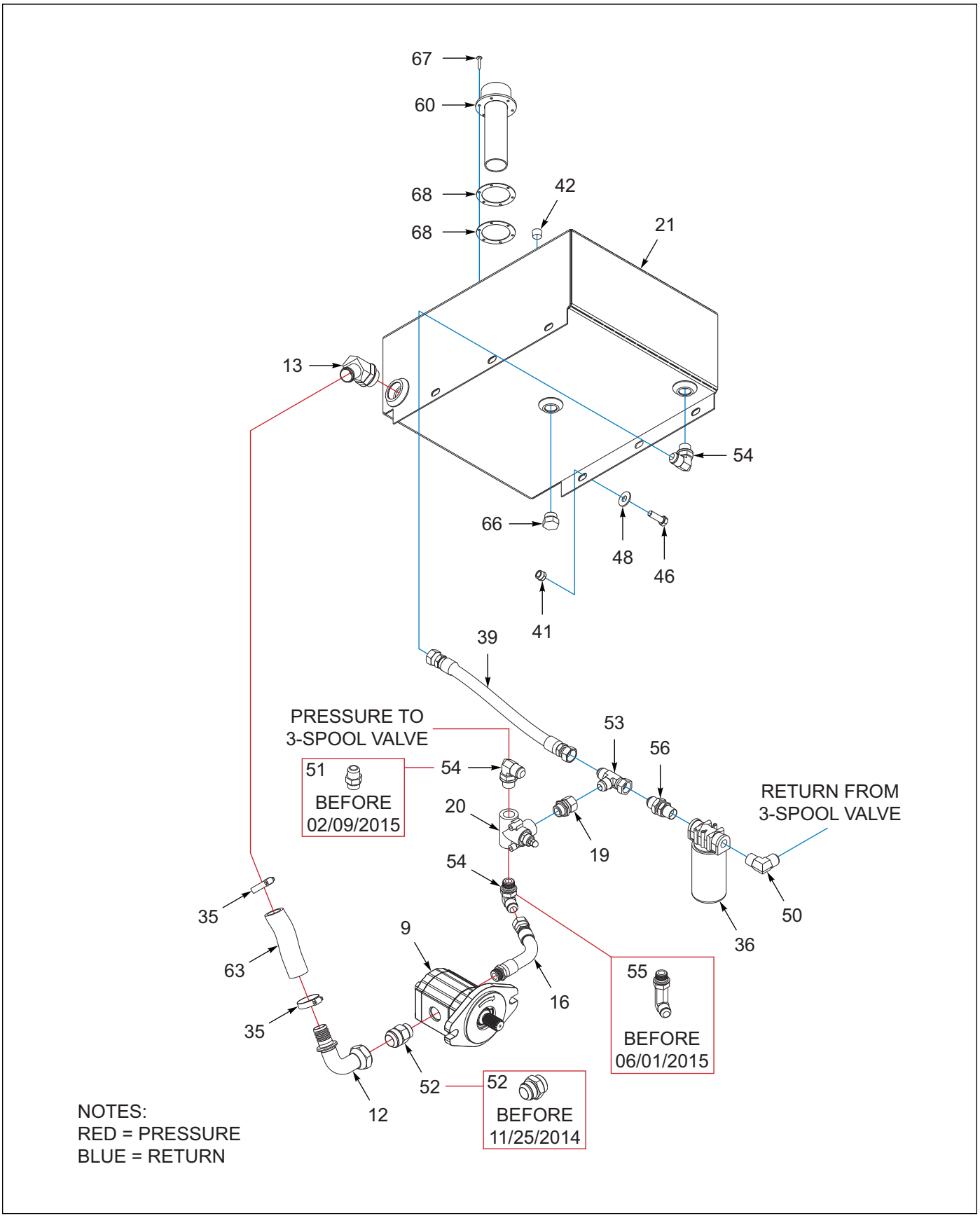


Figure 2-83: 25 HP Engine, 15 Gallon (OPTION) (AFTER 03/09/2012) (5 of 5)

25 HP ENGINE, 15 GALLON (OPTION) (AFTER 03/09/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	ENG PKG 25HP GAS COMMON	- -
1	108601	PIN, DOOR HINGE	2
2	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
3	113388	DECAL,ENG PKG INSTR 600/900	1
4	113544	HARNESS,ENG PKG IGN,600/900 **(BEFORE 10/01/2013)** **(SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)**	1
4	178428	SWITCH/HARNESS ASSY KOHLER UD **(AFTER 04/10/2015)** **(INCLUDES 3-765-010050-SWITCH ONLY, 228958-KEY ONLY)**	1
5	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
6	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
7	114815	SEAL, SPONGE RUBBER TRIM	5
8	115877	NUT HVY HEX 1/4-20 GR5	4
9	115888	PUMP, HYDRAULIC 0.88CID GEAR **(BEFORE 11/25/2014)**	1
9	186811	PUMP HYDRAULIC GEAR 0.77CID **(AFTER 11/25/2014)**	1
10	116326	HINGE,BASE MNT, COM ENG PKG	1
11	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
12	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
13	117873	FITTING,1.63-12 SAE-1 25H/B45	1
14	119206	HINGE, DOOR ENG DRV, 25HP	2
15	119445	EXHAUST EXT WLDMT 25HP E/P	1
16	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
17	120654	MOUNT WLDMT,ENG PKG,25 HP	1
18	120659	ISOLATOR, KOHLER 25HP MOUNT	2
19	120660	ADAPTER #12-O/RFEM-12#FL M	1
20	120661	VALVE,HYD PRES,#12SAE,2500P	1
21	120662	HYD TANK WLDMT, 15G E/P	1
22	123014	PLATE, MOTOR FRONT, 25HP E/P	1
23	127813	ENGINE,KOHLER 25HP, PUMP MNT **(INCLUDES ITEM 70)**	1
24	166766	CARBON CANISTER,FUEL TANK,GAS	1
25	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM **(NEW SYTLE)**	1
26	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
27	170109	FITTING,1/4MPT TO MALE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 29, 202225)**	- -
28	170110	FITTING,5/16BARB TO FE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 30, 202226)**	- -
29	170111	FITTING,1/4MPT TO MALE QD,SUZU **(BEFORE 10/01/2016, REQ 1 EACH)**	- -
29	202225	FITTING 1/4 MNPT/MALE QD **(REPLACES 170111 AFTER 10/01/2016)** **(REPLACES 170109, ITEM 27 AFTER 02/01/2022)**	2
30	170112	FITTING,5/16BARB TO FE QD,SUZU **(BEFORE 10/01/2016, REQ 1 EACH)**	- -
30	202226	FITTING5/16 HOSEBARB/FEMALE QD **(REPLACES 170112 AFTER 10/01/2016)** **(REPLACES 170110, ITEM 28 AFTER 02/01/2022)**	2

25 HP ENGINE, 15 GALLON (OPTION) (AFTER 03/09/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
31	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
32	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
33	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
34	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON)**	.5
35	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
36	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
37	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
38	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
39	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
40	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	11
41	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	7
42	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
43	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
44	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
45	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	4
46	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	9
47	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	14
48	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	5
49	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
50	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
51	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE **(BEFORE 02/09/2015, REQ 1 EACH)** **(AFTER 02/09/2015 OBSOLETE, USE ITEM 54, 2062-12-12S)**	- -
52	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092) (BEFORE 11/25/2014)**	1
52	119553	CONNECTOR,O-RING/37FL,20-16 **(AFTER 11/25/2014)**	1
53	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
54	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE **(BEFORE 02/09/2015, REQ 1 EACH)** **(REPLACES 202702-12-12S, ITEM 51 AFTER 02/09/2015)** **(REPLACES 206209-12-12S, ITEM 55 AFTER 06/01/2015)**	3
55	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE **(BEFORE 06/01/2015, REQ 1 EACH)** **(AFTER 06/01/2015 OBSOLETE, USE ITEM 54, 2062-12-12S)**	- -
56	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
57	2481X	BATTERY 12 VOLT	1
58	3-120-010124	BATTERY CLAMP BRKT	1
59	3-155-010012	CABLE THROTTLE **(200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)**	2
60	3-162-010001	FILLER BREATHER STRAINER ASSY	1
61	3-182-010028	CLAMP MUFFLER	1
62	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	3
63	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION **(BEFORE 01/13/2017)**	1
63	193904	HOSE, 1-1/4 X 7-1/2, SUCTION **(AFTER 01/13/2017)**	1
64	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
65	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
66	900598-12S	PLUG, O-RING BOSS #12	1
67	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
68	223220	GASKET, HYD TANK FILLER	2
69	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1

25 HP ENGINE, 15 GALLON (OPTION) (AFTER 03/09/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
70	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
71	192744	AIR FILTER **(NOT SHOWN)**	1
72	192745	OIL FILTER **(NOT SHOWN)**	1
73	192746	SPARK PLUGS **(SET OF 4) (NOT SHOWN)**	1
74	3-573-010506	DECAL,ENGINE,345A CONTROL	1

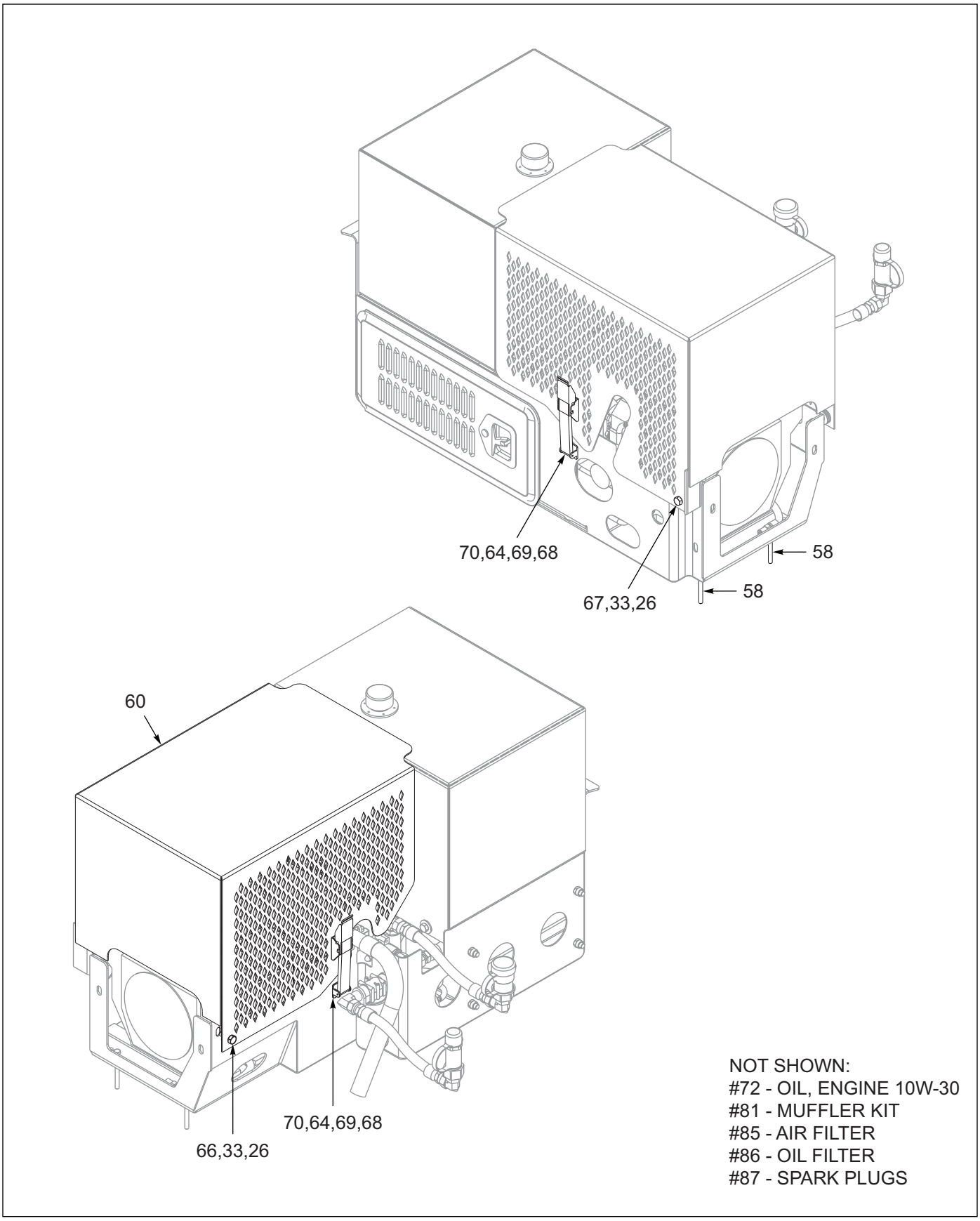


Figure 2-84: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (1 of 5)

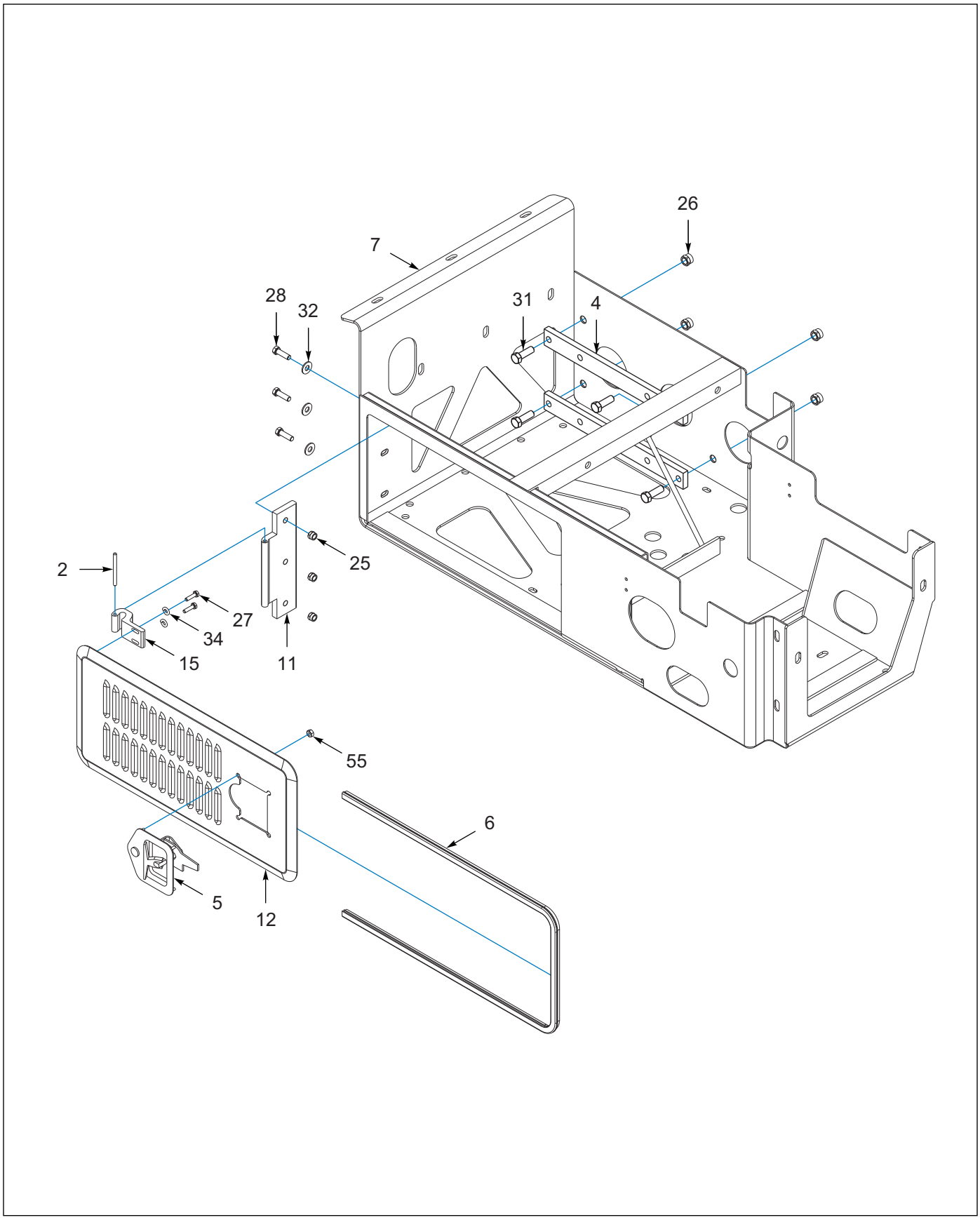


Figure 2-85: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (2 of 5)

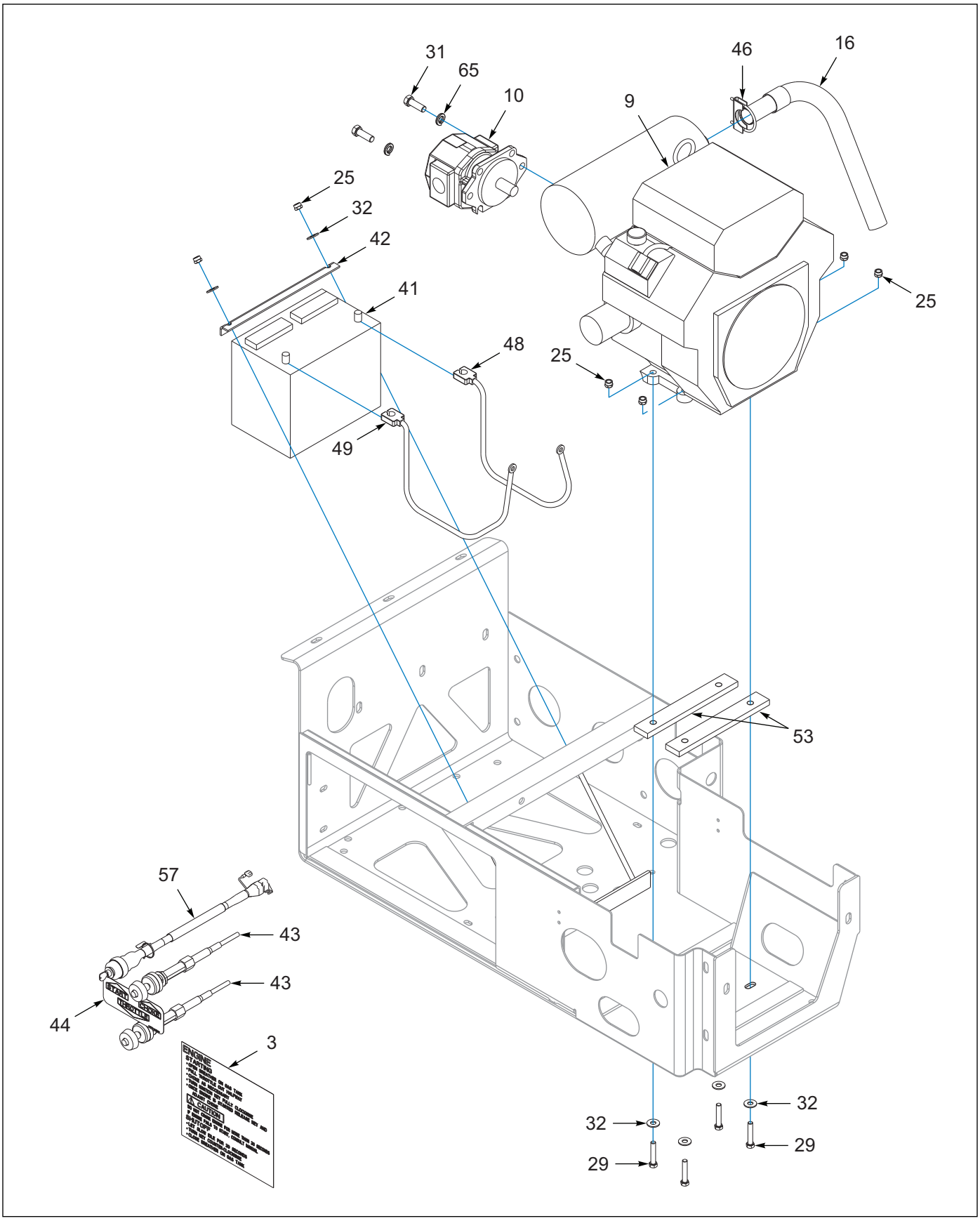


Figure 2-86: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (3 of 5)

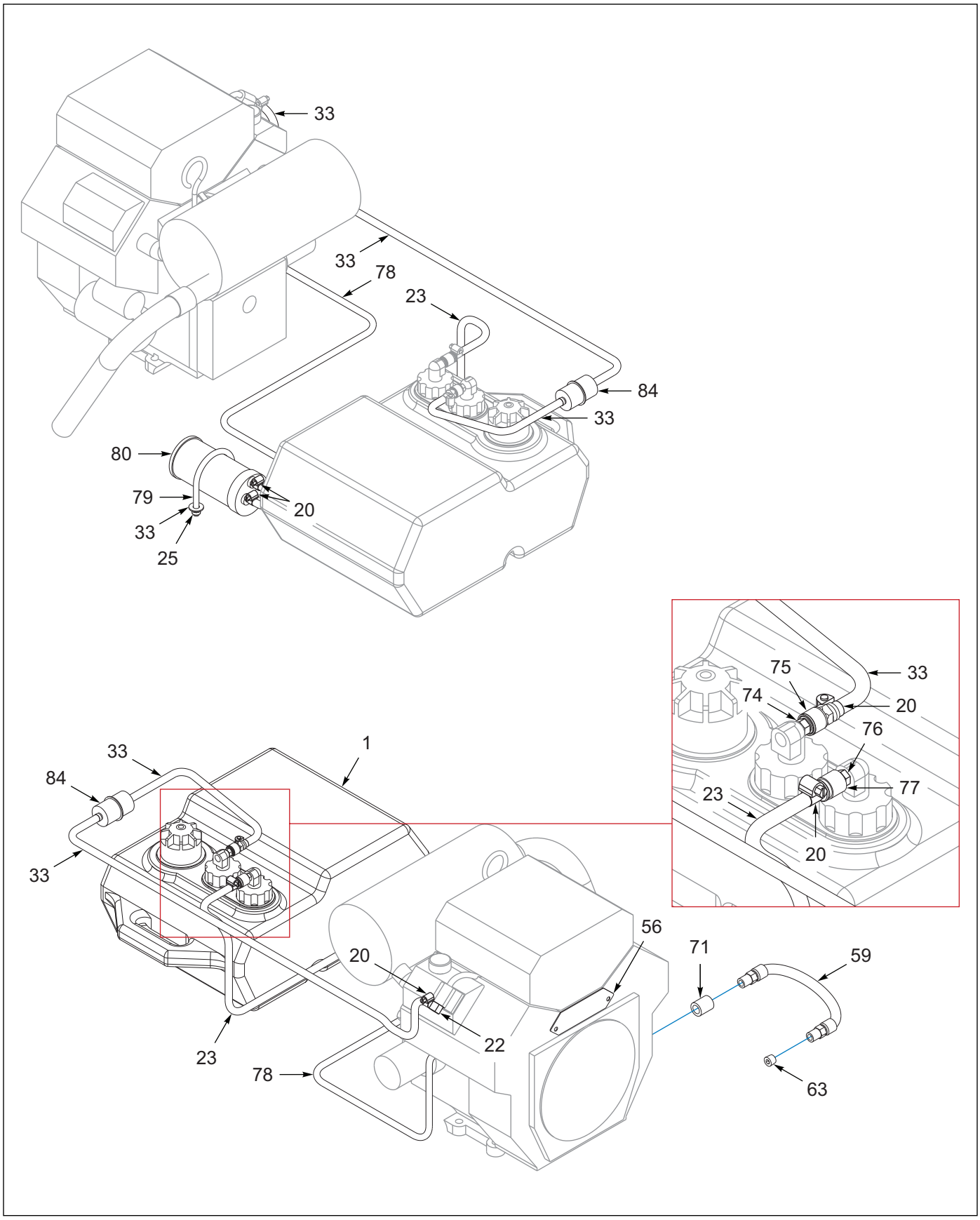


Figure 2-87: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (4 of 5)

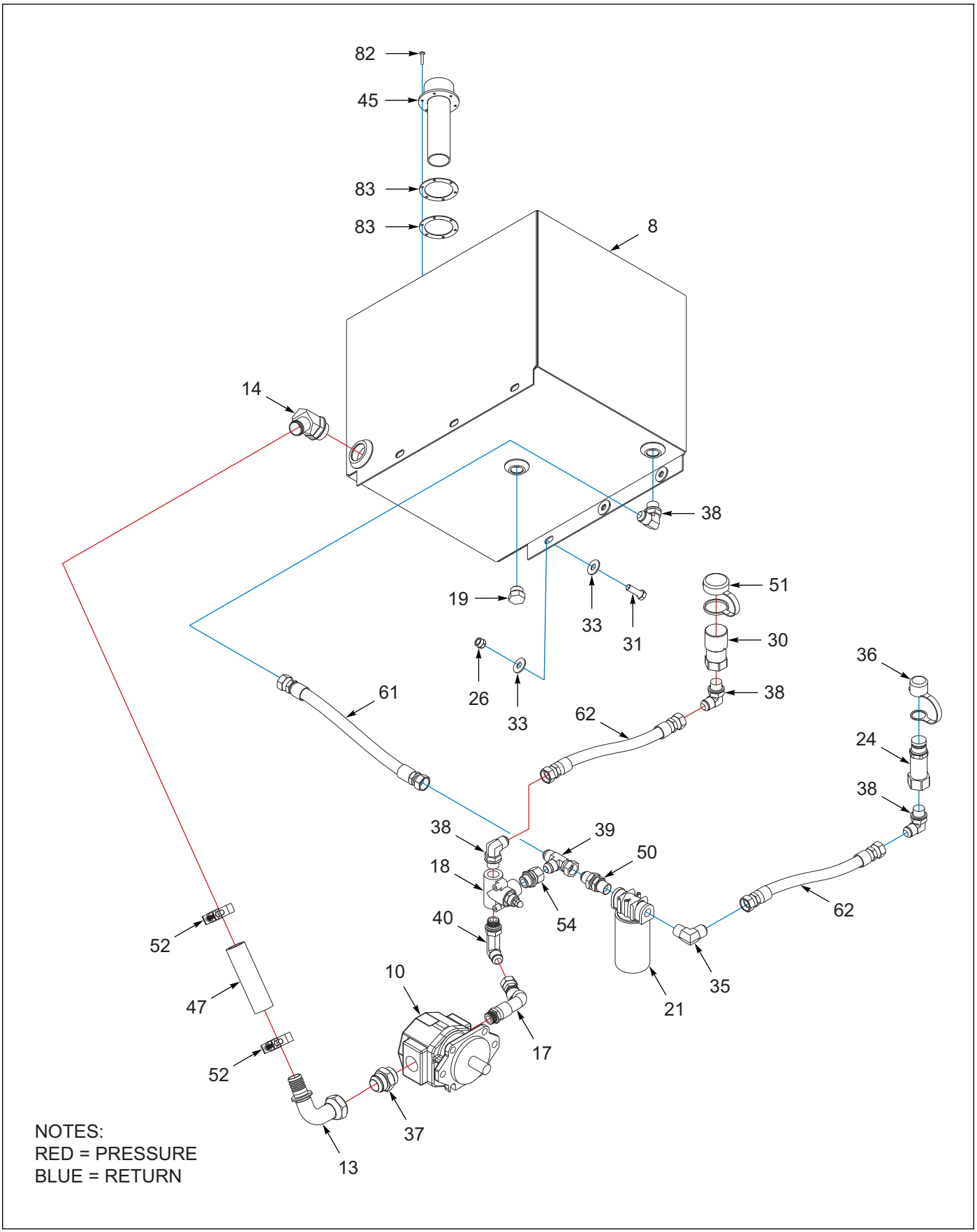


Figure 2-88: 25 HP Engine, 30 Gallon (OPTION) (BEFORE 10/16/2012) (5 of 5)

25 HP ENGINE, 30 GALLON (OPTION) (BEFORE 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENG PKG 25 HP U/D 317	- -
1	- - - - -	TANK,FUEL PLSTC,6 GAL,LOW PERM **(OLD STYLE 169531-V2)**	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL,ENG PKG INSTR 600/900	1
4	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	2
5	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WLDMT,ENG PKG,25 HP	1
8	129264	HYD TANK WLDMT, 30G E/P	1
9	127813	ENGINE,KOHLER 25HP, PUMP MNT **(INCLUDES ITEM 81-MUFFLER KIT)**	1
10	115888	PUMP, HYDRAULIC 0.88CID GEAR	1
11	116326	HINGE,BASE MNT, COM ENG PKG	1
12	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
13	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
14	117873	FITTING,1.63-12 SAE-1 25H/B45	1
15	119206	HINGE, DOOR ENG DRV, 25HP	2
16	119445	EXHAUST EXT WLDMT 25HP E/P	1
17	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
18	120661	VALVE,HYD PRES,#12SAE,2500P	1
19	900598-12S	PLUG, O-RING BOSS #12	1
20	105-0105	CLAMP,HOSE IDEAL 6203	6
21	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
22	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
23	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
24	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022 - SILVER BODY)**	- -
24	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022 - BLACK BODY)**	1
25	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
26	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	12
27	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
28	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
29	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
30	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25) (BEFORE 03/01/2022)**	- -
30	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 2-25) (AFTER 03/01/2022)**	1
31	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	12
32	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	9
33	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	16
34	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
35	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
36	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1
36	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
37	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092)**	1
38	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	4
39	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
40	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE	1

25 HP ENGINE, 30 GALLON (OPTION) (BEFORE 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
41	2481X	BATTERY 12 VOLT	1
42	3-120-010124	BATTERY CLAMP BRKT	1
43	128774	CABLE, THROTTLE 40' **(200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)**	2
44	3-573-010506	DECAL,ENGINE,345A CONTROL	1
45	3-162-010001	FILLER BREATHER STRAINER ASSY	1
46	3-182-010028	CLAMP MUFFLER	1
47	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION	1
48	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
50	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
51	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
51	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
52	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
53	120659	ISOLATOR, KOHLER 25HP MOUNT	2
54	120660	ADAPTER #12-O/RFEM-12#FL M	1
55	115877	NUT HVY HEX 1/4-20 GR5	4
56	123014	PLATE, MOTOR FRONT, 25HP E/P	1
57	113544	HARNESS,ENG PKG IGN,600/900 **(BEFORE 10/01/2013) (SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)**	2
58	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
59	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
60	129287	COVER WLDMT U/D ENG PKG 30GAL	1
61	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
62	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
63	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
64	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
65	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
66	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	1
67	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	1
68	110-0116	SCREW RD HD CAP 10-24X3/4	8
69	110-0253	WASHER,FLAT 3/16 STD	8
70	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
71	3/8P COUPL	BLK PIPE COUPLING	1
72	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON, NOT SHOWN)**	.5
73	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
74	170109	FITTING,1/4MPT TO MALE QD,FORC	1
75	170110	FITTING,5/16BARB TO FE QD,FORC	1
76	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
77	170112	FITTING,5/16BARB TO FE QD,SUZU	1
78	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	5
79	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
80	166766	CARBON CANISTER,FUEL TANK,GAS	1
81	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
82	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
83	223220	GASKET, HYD TANK FILLER	2
84	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1
85	192744	AIR FILTER **(NOT SHOWN)**	1

25 HP ENGINE, 30 GALLON (OPTION) (BEFORE 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
86	192745	OIL FILTER **(NOT SHOWN)**	1
87	192746	SPARK PLUGS **(SET OF 4, NOT SHOWN)**	1

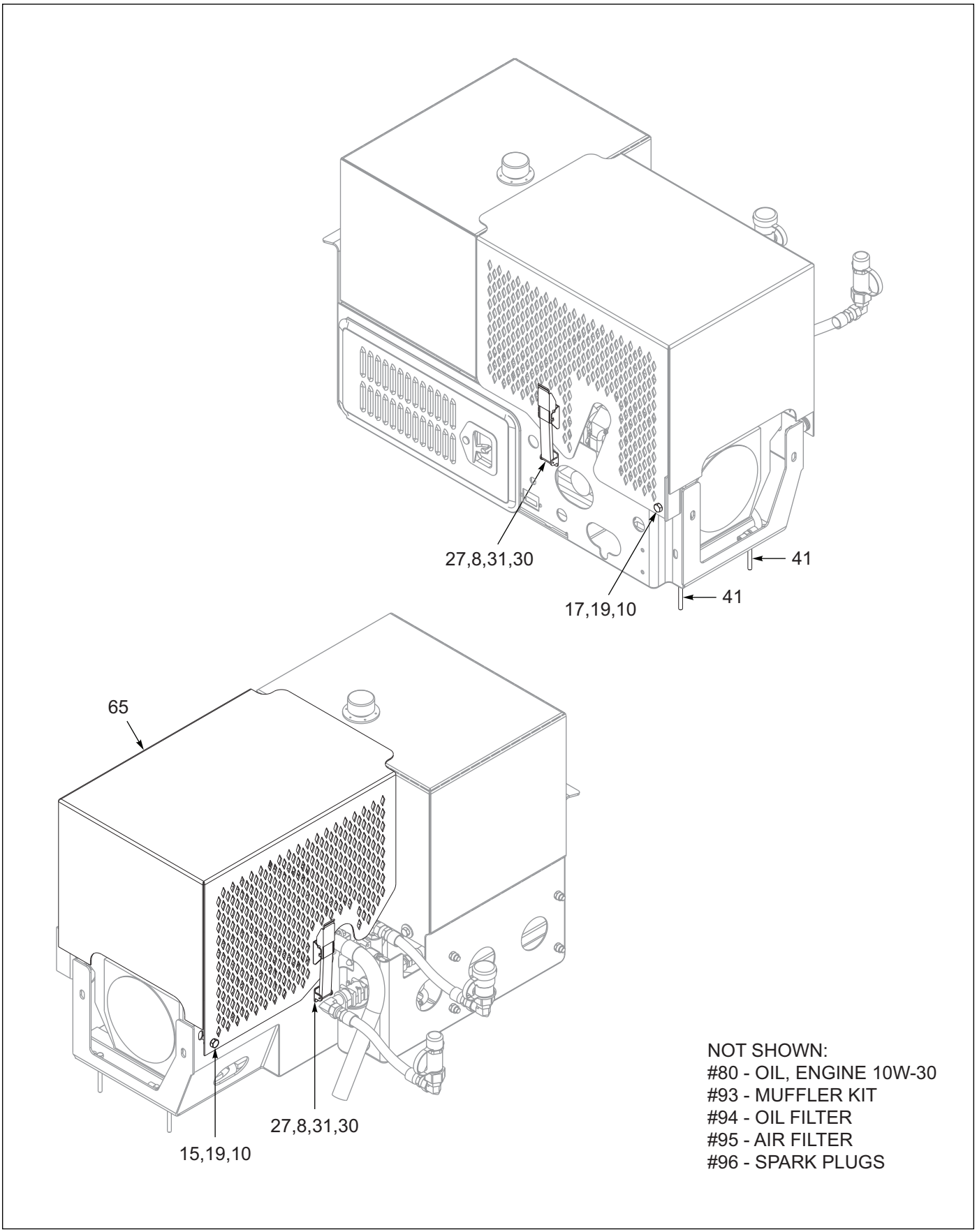


Figure 2-89: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (1 of 5)

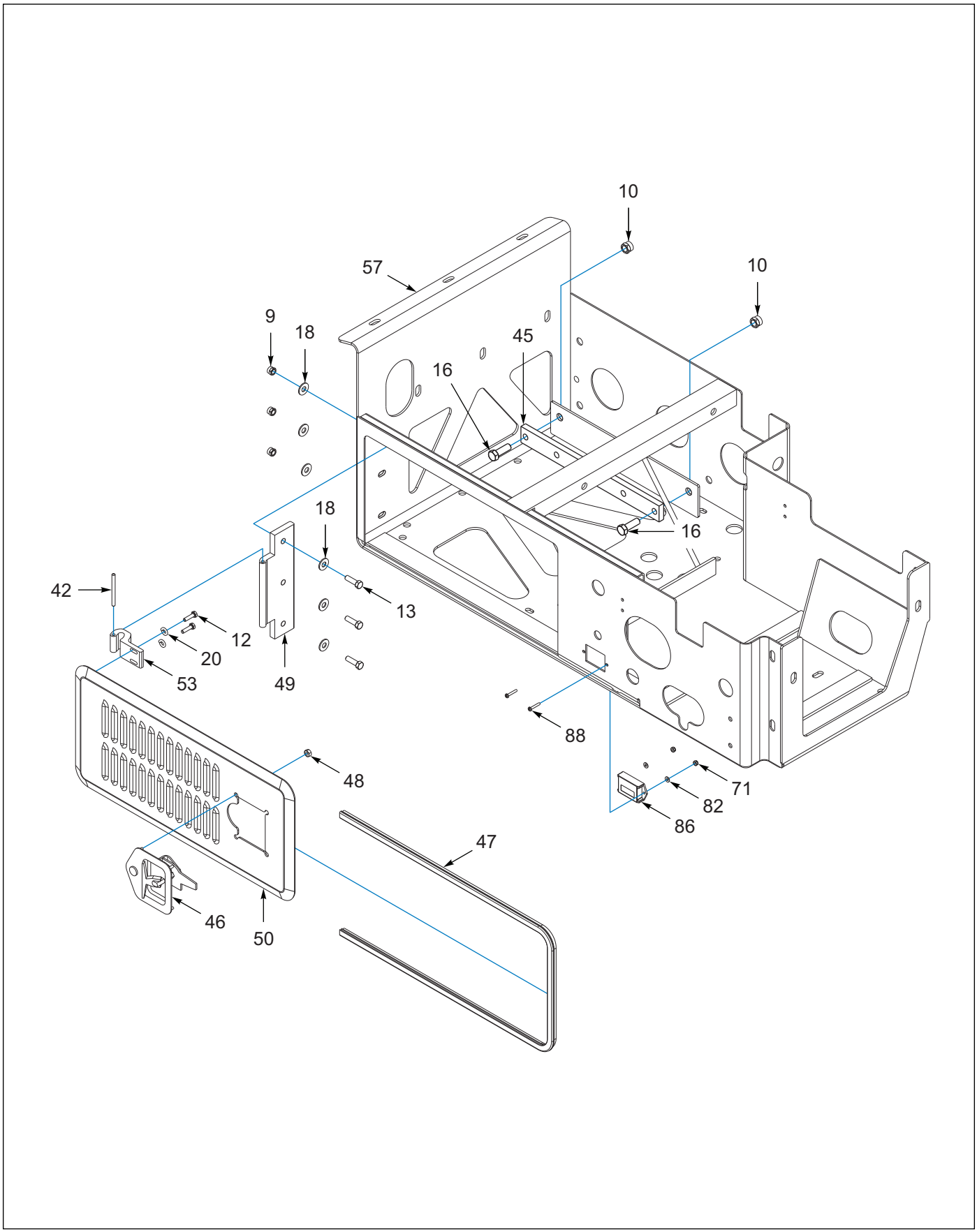


Figure 2-90: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (2 of 5)

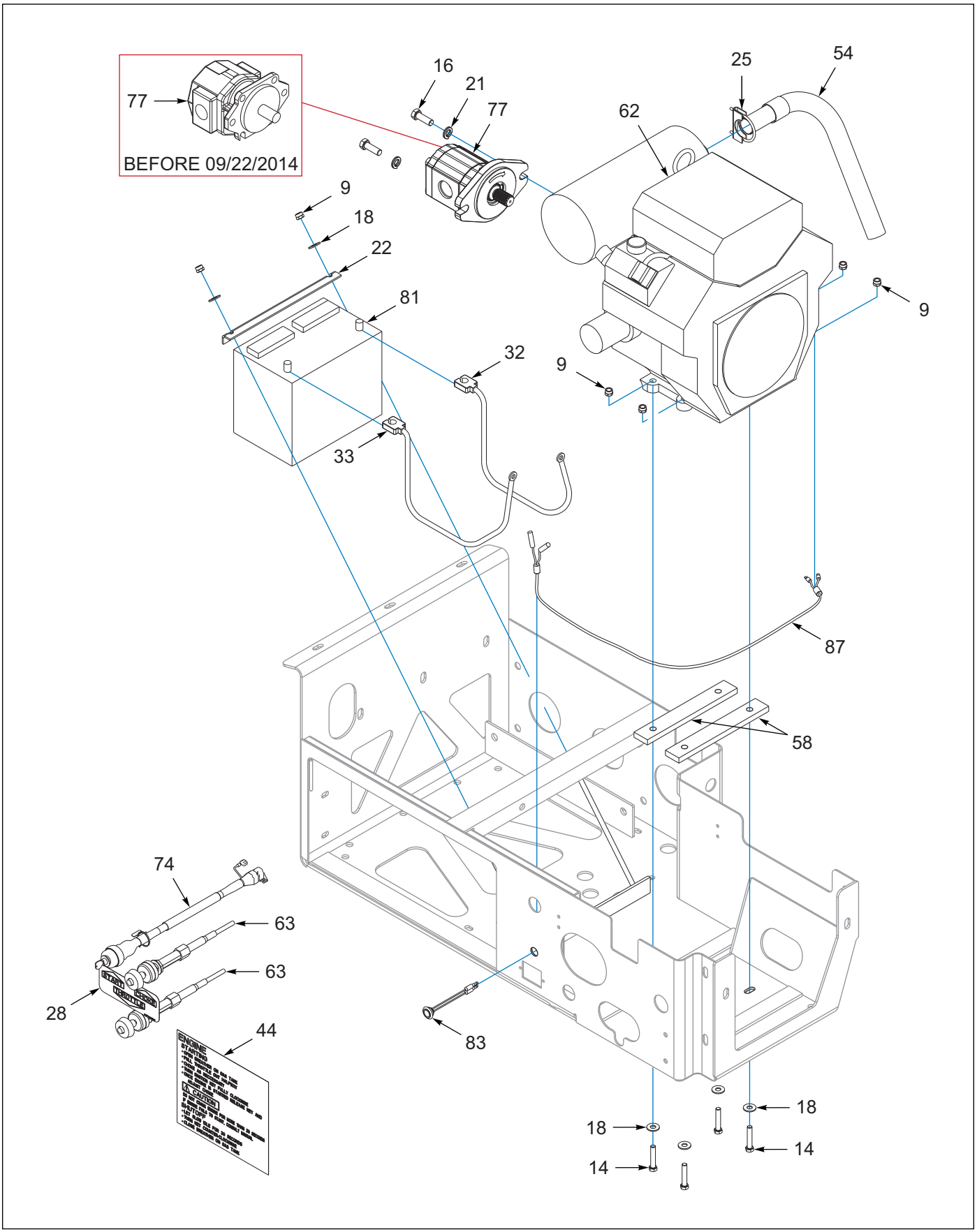


Figure 2-91: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (3 of 5)

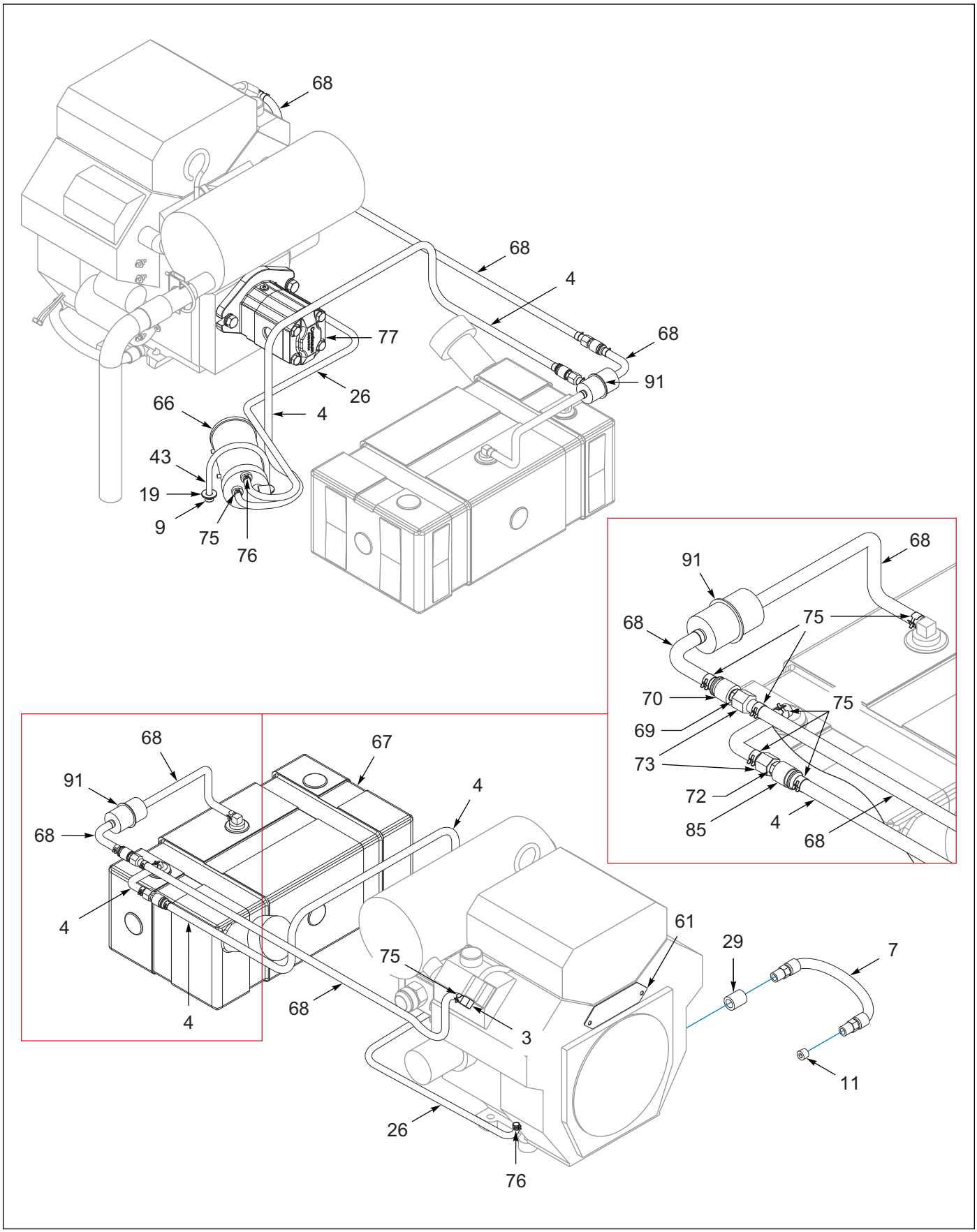


Figure 2-92: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (4 of 5)

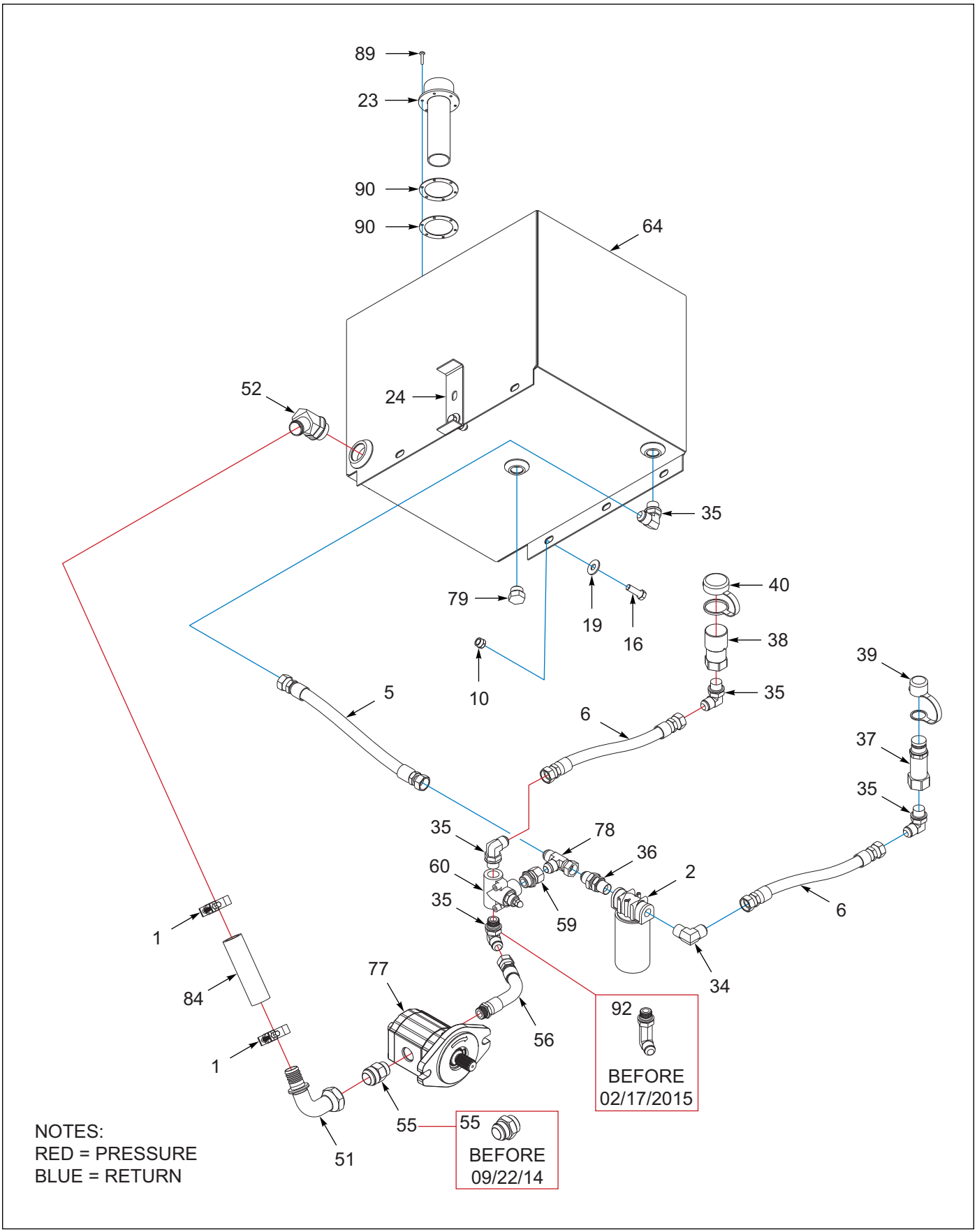


Figure 2-93: 25 HP Engine, 30 Gallon (OPTION) (AFTER 10/16/2012) (5 of 5)

25 HP ENGINE, 30 GALLON (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	ENG PKG 25 HP U/D 317	- -
1	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
2	1-295-010001	FILTER, RETURN LINE **(1-295-010002-FILTER ONLY)**	1
3	1-297-010034-01	FITTING,BR 1/4X1/8P 90 BARB	1
4	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL **(BY THE FOOT)**	5
5	1-397-010304018	HOSE ASSY,3/4X18,SAE37,STR-ST	1
6	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
7	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
8	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
9	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
10	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
11	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
12	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
13	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
14	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
15	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	1
16	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
17	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	1
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	22
19	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	14
20	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
21	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
22	3-120-010124	BATTERY CLAMP BRKT	1
23	3-162-010001	FILLER BREATHER STRAINER ASSY	1
24	173887	BRACKET, ENG PACKAGE **(BEFORE 08/08/2013)**	1
24	3-181-010006	HOSE CLAMP 350 **(AFTER 08/08/2013)**	1
25	3-182-010028	CLAMP MUFFLER	1
26	3-316-010008	3/16 ID FUEL HOSE **(BY THE FOOT)**	3
27	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
28	3-573-010506	DECAL,ENGINE,345A CONTROL	1
29	3/8P COUPL	BLK PIPE COUPLING	1
30	110-0116	SCREW RD HD CAP 10-24X3/4	8
31	110-0253	WASHER,FLAT 3/16 STD	8
32	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
33	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
34	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
35	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE **(BEFORE 02/17/2015, REQ 1 EACH)** **(REPLACES 206209-12-12S, ITEM 92 AFTER 02/17/2015)**	5
36	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
37	105479	COUPLER FLAT FACE MALE NOSE **(PARTS - SEE PAGE 2-25)** **(BEFORE 03/01/2022 - SILVER BODY)**	- -
37	239677	COUPLER FL FACE ISO -12 MALE **(PARTS - SEE PAGE 2-25)** **(AFTER 03/01/2022 - BLACK BODY)**	1
38	105480	COUPLER FLAT FACE FEMALE BODY **(PARTS - SEE PAGE 2-25)** **(BEFORE 03/01/2022)**	- -
38	239678	COUPLER FL FACE ISO -12 FEMALE **(PARTS - SEE PAGE 2-25)** **(AFTER 03/01/2022)**	1
39	105481	COUPLER DUST CAP MALE **(BEFORE 03/01/2022)**	1

25 HP ENGINE, 30 GALLON (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
39	239679	DUST CAP -12 ISO MALE COUPLER **(AFTER 03/01/2022)**	1
40	105482	COUPLER DUST CAP FEMALE **(BEFORE 03/01/2022)**	1
40	239680	DUST CAP FEMALE COUPLER -12ISO **(AFTER 03/01/2022)**	1
41	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
42	108601	PIN, DOOR HINGE	2
43	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
44	113388	DECAL,ENG PKG INSTR 600/900	1
45	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
46	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
47	114815	SEAL, SPONGE RUBBER TRIM	1
48	115877	NUT HVY HEX 1/4-20 GR5	4
49	116326	HINGE,BASE MNT, COM ENG PKG	1
50	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1
51	116330	FITTING 1.25F 37-1.25 BARB 90 **(202702-16-20S)**	1
52	117873	FITTING,1.63-12 SAE-1 25H/B45	1
53	119206	HINGE, DOOR ENG DRV, 25HP	2
54	119445	EXHAUST EXT WLDMT 25HP E/P	1
55	202702-20-20S	ADAPTER #20 O-RING #20 TUBE **(102-1092) (BEFORE 09/22/2014)**	1
55	119553	CONNECTOR,O-RING/37FL,20-16 **(AFTER 09/22/2014)**	1
56	119577	HOSE 3/4X9 1-1/16 O/R 12SAE	1
57	120654	MOUNT WLDMT,ENG PKG,25 HP	1
58	120659	ISOLATOR, KOHLER 25HP MOUNT	2
59	120660	ADAPTER #12-O/RFEM-12#FL M	1
60	120661	VALVE,HYD PRES,#12SAE,2500P	1
61	123014	PLATE, MOTOR FRONT, 25HP E/P	1
62	127813	ENGINE,KOHLER 25HP, PUMP MNT **(INCLUDES ITEM 93-MUFFLER KIT)**	1
63	128774	CABLE, THROTTLE 40' **(200108-HEAD ASSY, 01-5000-05 BULK HEAD FITTING)**	2
64	129264	HYD TANK WLDMT, 30G E/P	1
65	129287	COVER WLDMT U/D ENG PKG 30GAL	1
66	166766	CARBON CANISTER,FUEL TANK,GAS	1
67	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM **(NEW STYLE)**	1
68	169532	HOSE, FUEL,1/4 LOW PERM, CARB **(BY THE FOOT)**	5
69	170109	FITTING,1/4MPT TO MALE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 72, 202225)**	- -
70	170110	FITTING,5/16BARB TO FE QD,FORC **(BEFORE 02/01/2022, REQ 1 EACH)** **(AFTER 02/01/2022 OBSOLETE, USE ITEM 85, 202226)**	- -
71	1-512-010003-03	NUT,HX 8-32,SLF-LKG W/NYL **(AFTER 04/30/2019)**	2
72	170111	FITTING,1/4MPT TO MALE QD,SUZU **(BEFORE 10/01/2016, REQ 1 EACH)**	- -
72	202225	FITTING 1/4 MNPT/MALE QD **(REPLACES 170111 AFTER 10/01/2016)** **(REPLACES 170109, ITEM 69 AFTER 02/01/2022)**	2
73	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2

25 HP ENGINE, 30 GALLON (OPTION) (AFTER 10/16/2012)

ITEM	PART NO.	DESCRIPTION	QTY.
74	113544	HARNESS,ENG PKG IGN,600/900 **(BEFORE 10/01/2013)** **(SWITCH SOLD SEPERATELY, ORDER 3-765-010050-SWITCH W/KEYS ONLY, 228958-KEYS ONLY)**	2
74	178428	SWITCH/HARNESS ASSY KOHLER UD **(AFTER 10/01/2013)** **(INCLUDES 3-765-010050-SWITCH ONLY, 228958-KEY ONLY)**	2
75	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
76	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
77	115888	PUMP, HYDRAULIC 0.88CID GEAR **(BEFORE 09/22/2014)**	1
77	186811	PUMP HYDRAULIC GEAR 0.77CID **(AFTER 09/22/2014)**	1
78	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
79	900598-12S	PLUG, O-RING BOSS #12	1
80	1410792	OIL, ENGINE 10W-30 **(BY THE GALLON, NOT SHOWN)**	.5
81	2481X	BATTERY 12 VOLT	1
82	1-861-010032-02	WASHER,FL #8 ZP/CD **(AFTER 04/30/2019)**	2
83	175591	LIGHT YEL LED .75 CL.MK GROTE **(AFTER 02/24/2020)**	1
84	3-399-010001006	HOSE 1-1/4X0'-6" SUCTION **(BEFORE 01/13/2017)**	1
84	193904	HOSE, 1-1/4 X 7-1/2, SUCTION **(AFTER 01/13/2017)**	1
85	170112	FITTING,5/16BARB TO FE QD,SUZU **(BEFORE 10/01/2016, REQ 1 EACH)**	- -
85	202226	FITTING5/16 HOSEBARB/FEMALE QD **(REPLACES 170112 AFTER 10/01/2016)** **(REPLACES 170110, ITEM 70 AFTER 02/01/2022)**	2
86	220977	METER HOUR/TACH DIGITIAL **(AFTER 04/30/2019)**	1
87	223219	ENG MIL EXT ADAPTER HARNESS **(AFTER 02/24/2020)**	1
88	85G816E	SCREW,PAN.HD #8-32X1 **(AFTER 04/30/2019)**	2
89	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	6
90	223220	GASKET, HYD TANK FILLER	2
91	192991	FUEL FILTER **(INCLUDES HOSE CLAMPS)**	1
92	206209-12-12S	ADAPTER,90LONG,#12 O-RINGTUBE **(BEFORE 02/17/2015, REQ 1 EACH)** **(AFTER 02/17/2015 OBSOLETE, USE ITEM 35, 2062-12-12S)**	1
93	128501	MUFFLER KIT KOHLER 25HP **(NOT SHOWN)**	1
94	170114	OIL FILTER KOHLER CH740 **(NOT SHOWN)**	1
95	192744	AIR FILTER**(NOT SHOWN)**	1
96	192746	SPARK PLUGS **(SET OF 4, NOT SHOWN)**	1

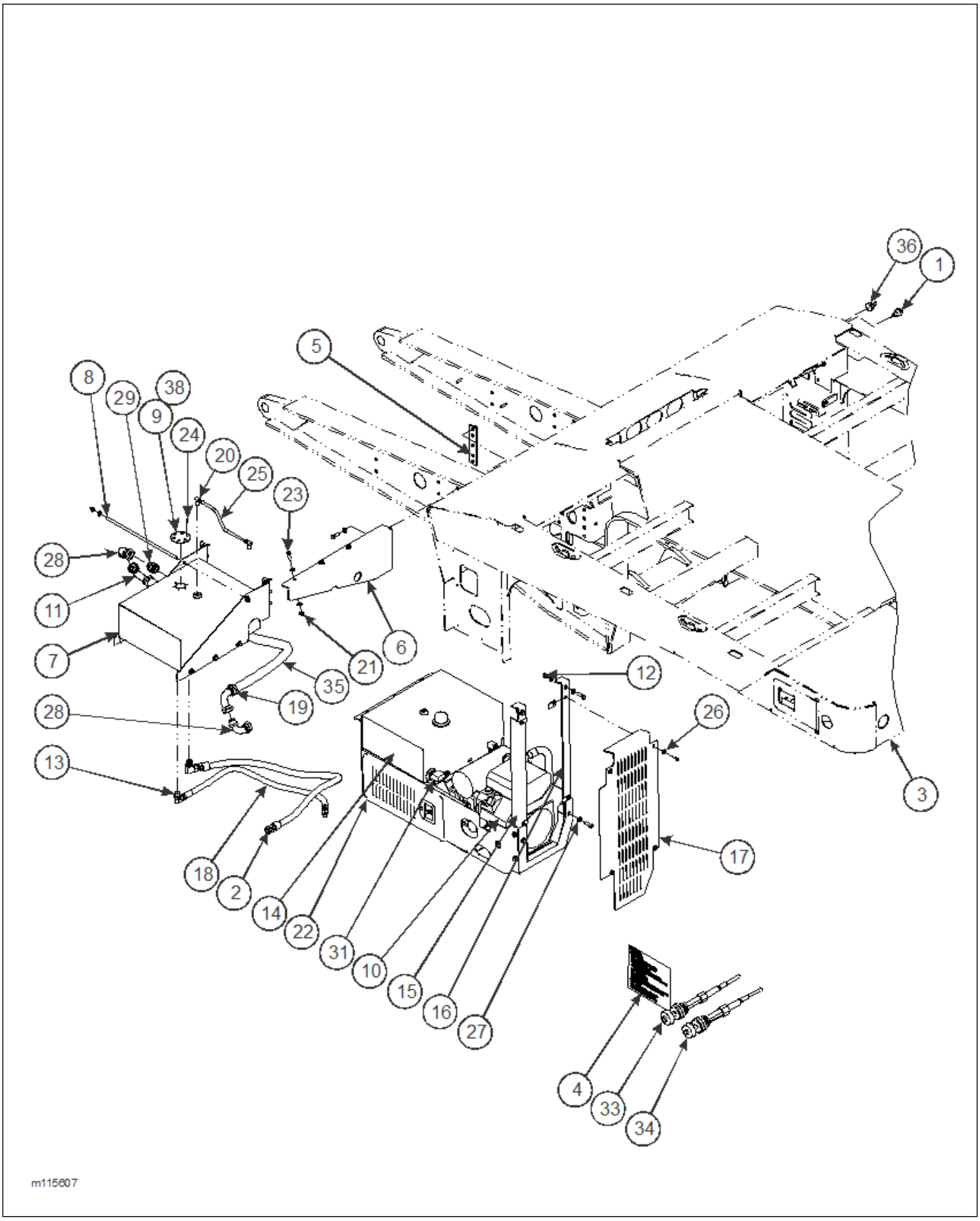


Figure 2-94: Engine Package Bracket Kit

ENGINE PACKAGE BRACKET KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	115607	BRACKET KIT, ENGINE PACKAGE	- -
1	26331	LIGHT, COURTESY 1-1/2	1
2	105276	HOSE 3/4 X 52	1
3	- - - - -	FRAME WELDMENT	REF
4	113388	DECAL, ENGINE PACKAGE INSTRUCTIONS	REF
5	113394	PLATE, BACKUP	1
6	113541	MOUNT, ENGINE PACKAGE REAR	1
7	115585	BRACKET, HYDRAULIC TANK MOUNT	2
8	115587	ROD, THREADED 1/2-13 X 20.5	1
9	115588	COVER, HYDRAULIC TANK FILL	1
10	115601	ENGINE PACKAGE, 25HP GAS	REF
11	116330	FITTING, 90	1
12	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	8
13	120384	ADAPTER, 90	1
14	120662	HYDRAULIC TANK WELDMENT	1
15	120724	ANGLE, MOUNT RH	1
16	120725	ANGLE, MOUNT LH	1
17	120726	SHIELD, ENGINE PACKAGE FRONT	1
18	1-397-010342064	HOSE ASSEMBLY 1 X 64	1
19	1-181-010046-7	CLAMP, HOSE	2
20	1-297-010008-21	FITTING, AIR 90	2
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	27
22	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
23	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	25
24	1-654-010151-07	SCREW, HEX WASHER SELF-DRILLING #10-16 X 3/4	6
25	1-833-010002	TUBING, NYLON 3/8	1
26	1-861-010032-11	WASHER, FLAT 3/8W	4
27	1-861-010032-14	WASHER, FLAT 1/2N	53
28	12412300-08	ADAPTER 37 FLARE	2
29	202702-20-20S	ADAPTER	1
31	120385	ADAPTER, 90	1
32	2071-12-12S	ADAPTER, 90 **(NOT SHOWN)**	2
35	3-399-010001	HOSE, SUCTION 1-1/4	1
37	900598-12S	PLUG, O-RING **(NOT SHOWN)**	1
38	132163	GASKET	1
39	1-397-010304135	HOSE ASSEMBLY 3/4 X 135	2
40	3-368-010254	HARNESS ADAPTER ASSEMBLY, ENGINE LIGHT **(NOT SHOWN)**	1
41	239-8852-009	CLAMP, SUPPORT HOSE 2-1/4 **(NOT SHOWN)**	2

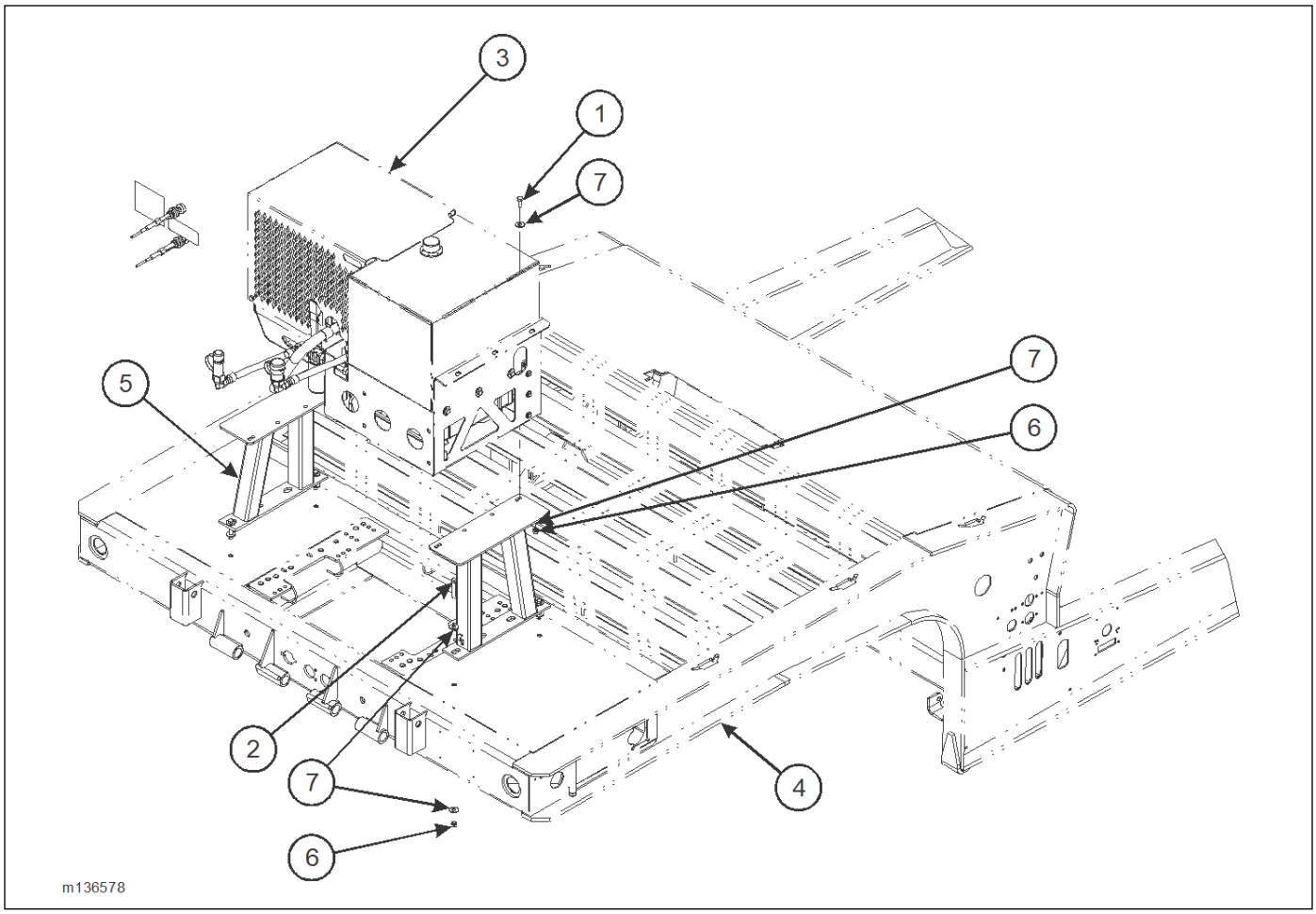


Figure 2-95: Upper Deck Engine Stand Installation

UPPER DECK ENGINE STAND INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	136578	UPPER DECK STAND INSTALLATION	- -
1	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
2	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	4
3	123166	ENGINE PACKAGE, 27 HP GAS (SEE PAGE 2-149)	REF
4	- - - - -	UPPER DECK FRAME WELDMENT	REF
5	134857	MOUNT WELDMENT, ENGINE PACKAGE	2
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2W	16

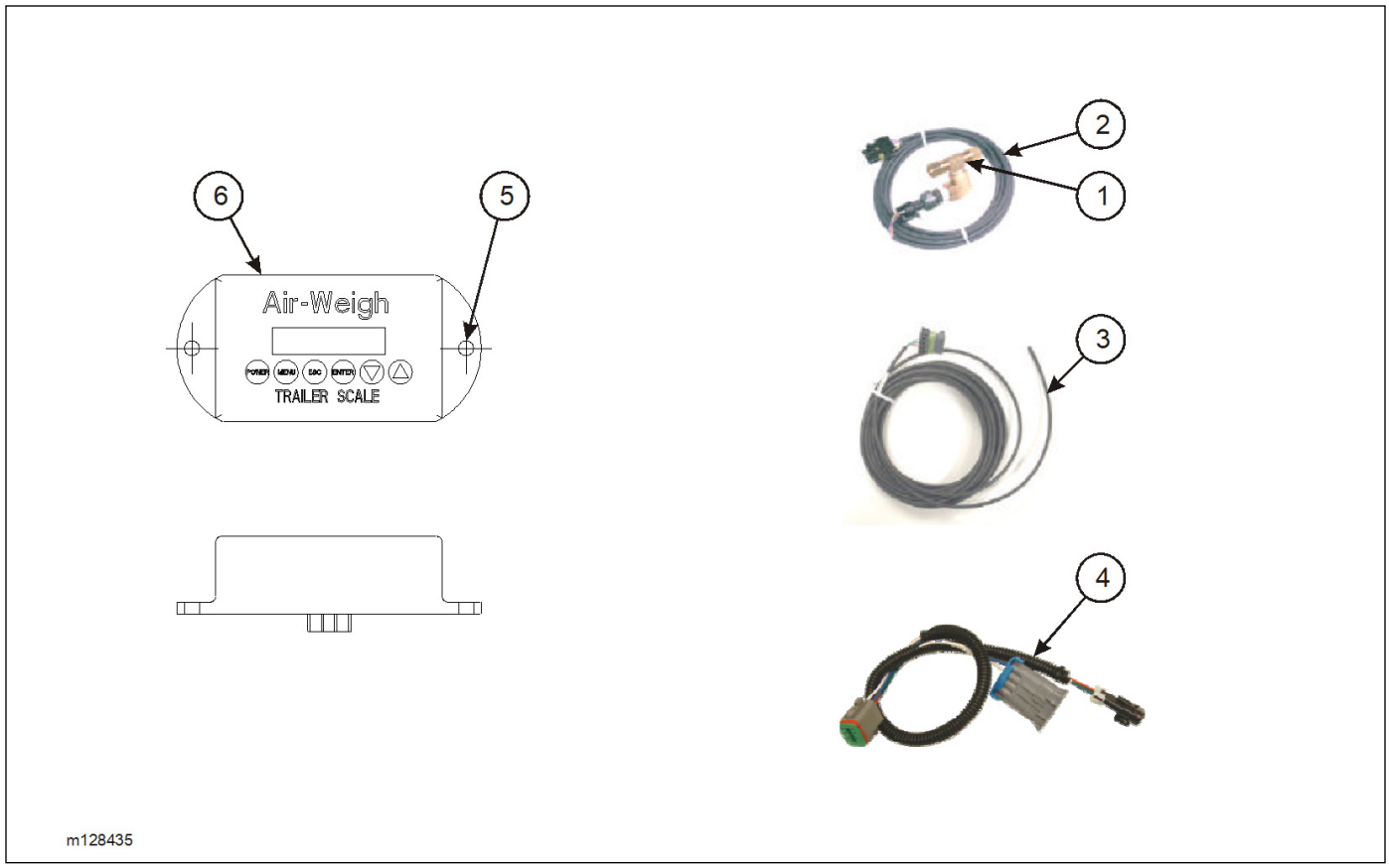


Figure 2-96: Air Digital Scale (Option)

AIR DIGITAL SCALE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	172437	SCALE, AIR DIGITAL **(TRAVELING AXLE)**	- -
1	149543	SENSOR ASSEMBLY, 5V 3/8" BRASS	1
2	166001	CABLE, AW5800, 2 PART SENSOR 50'	1
3	184393	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

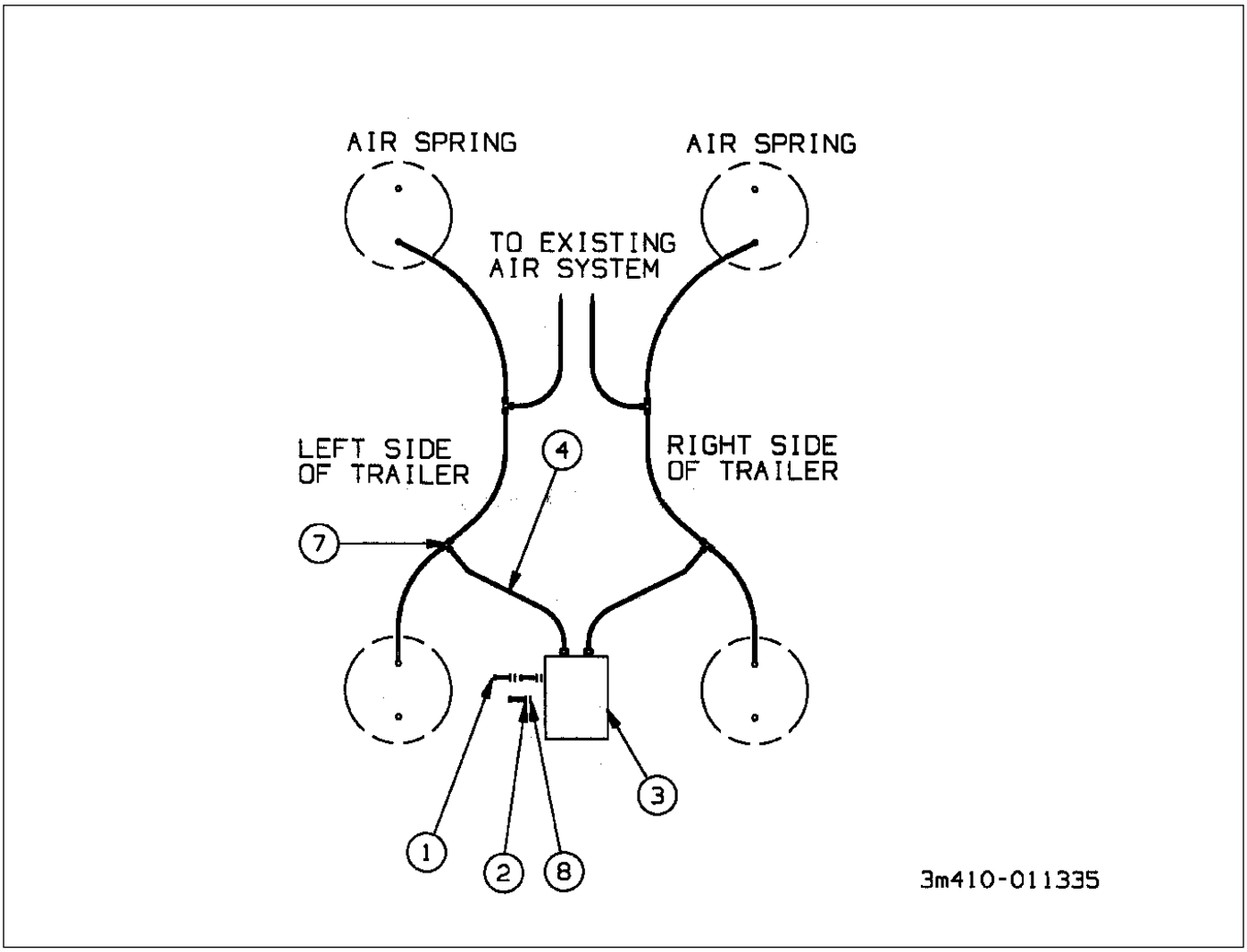


Figure 2-97: Scale-o-matic Installation (Option)

SCALE-O-MATIC INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-410-011335	SCALE-O-MATIC INSTALLATON 317B	- -
1	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20X 1 GR5	4
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	4
3	3-762-010612	SCALE-O-MATIC 25000LB CAP	1
4	1-833-010001	NYLON TUBING 1/4OD	10
5	- - - - -	BUMPER **(NOT SHOWN)**	REF
6	3-120-010426	BRACKET, SCALE-O-MATIC MTG **(NOT SHOWN)**	1
7	1-297-010010-04	FITTING, AIR UNION/TEE	2
8	1-861-010032-06	WASHER FLAT 1/4N	4
9	1-654-010049-05	SCREW, HEX HEAD CAP 5/16-18X1 GR5 **(NOT SHOWN)**	4
10	1-861-010032-09	WASHER, FLAT 5/16-18X1 GR5 **(NOT SHOWN)**	4
11	1-512-010005-03	NUT, HEX LOCK 5/16-18 GRB **(NOT SHOWN)**	4

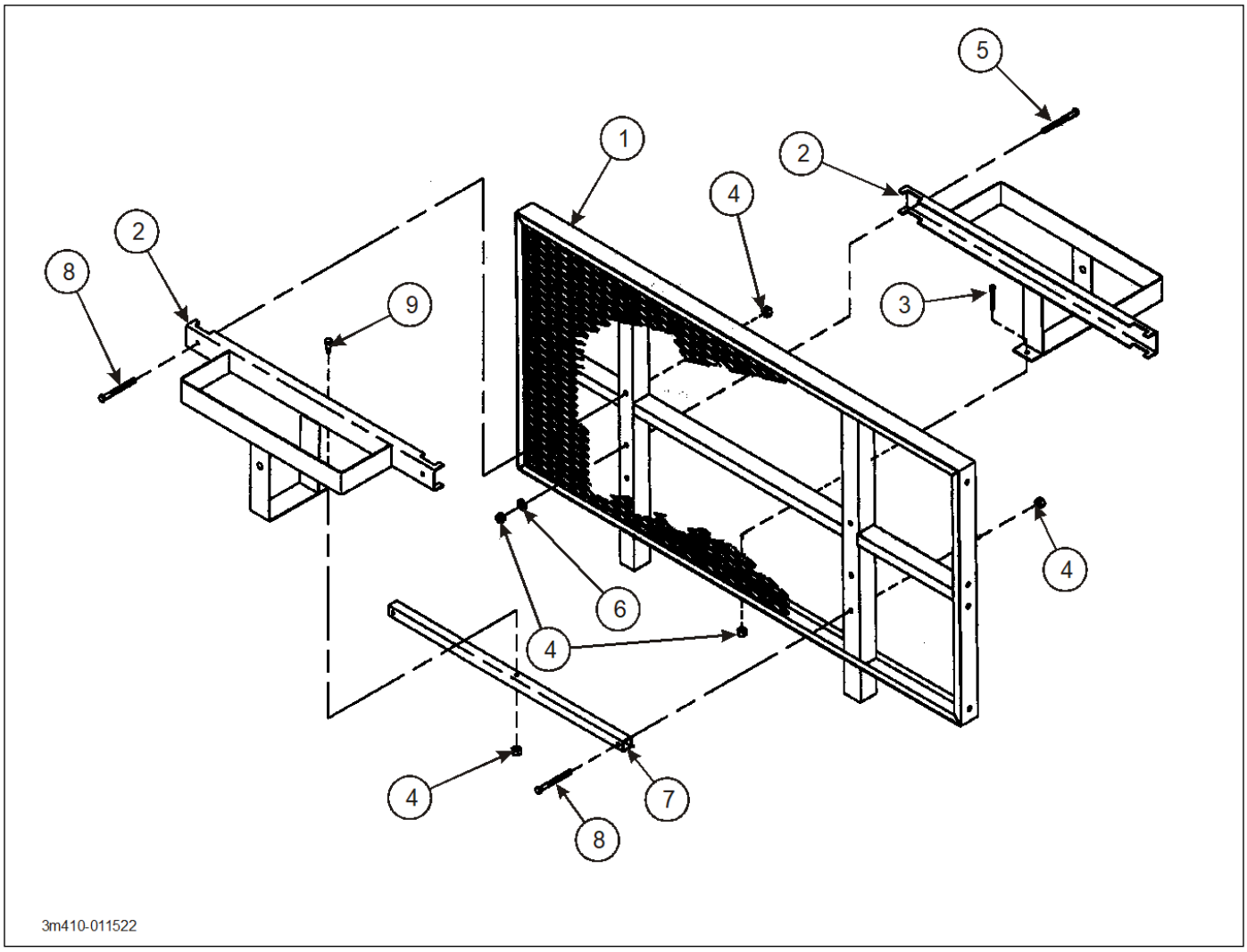


Figure 2-98: Spare Tire Carrier (Option)

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.

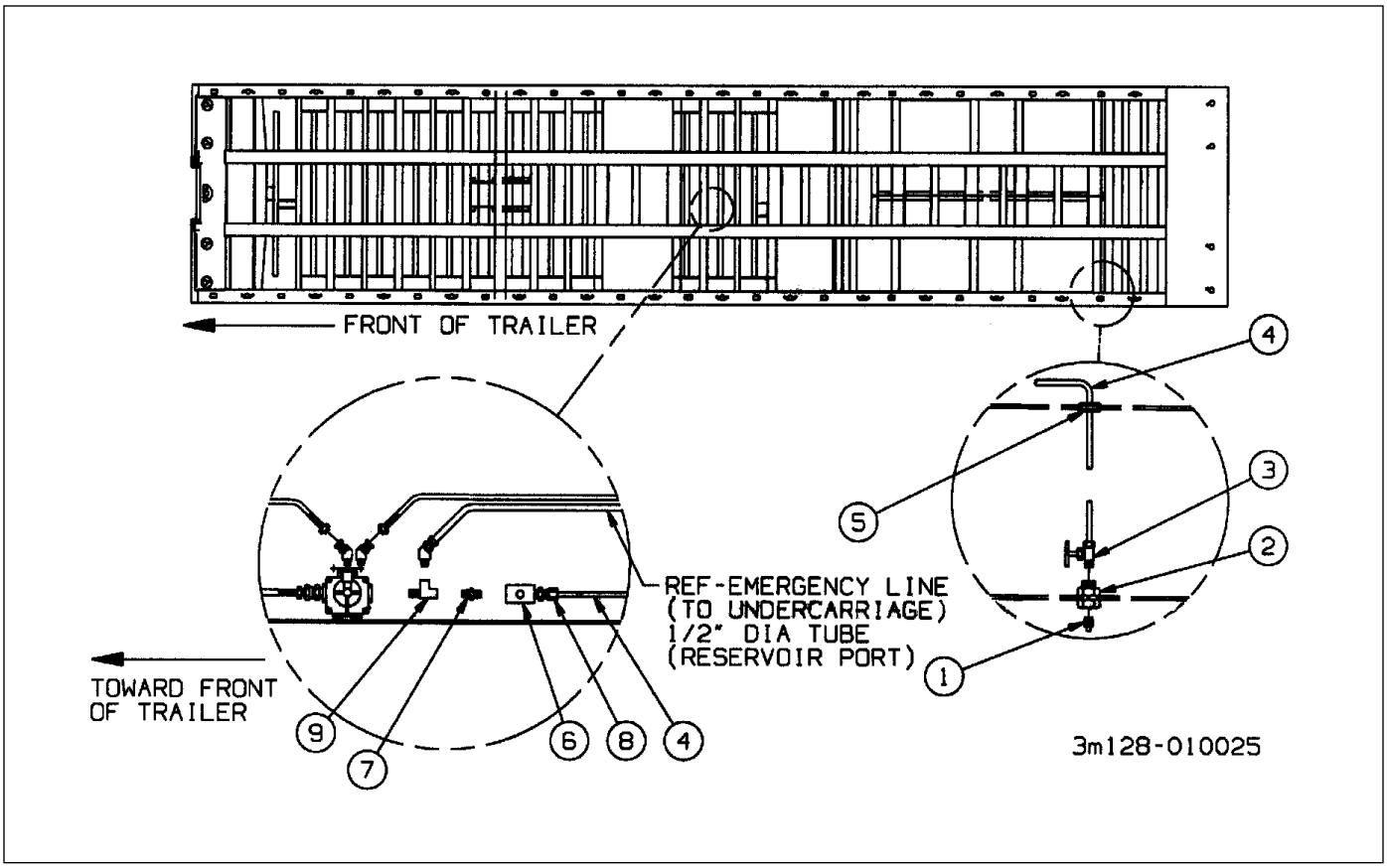


Figure 2-99: Air Outlet Accessory (Option)

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 **(INCLUDES FILTER 167692)**	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

Table provided for general use.

NOTES:

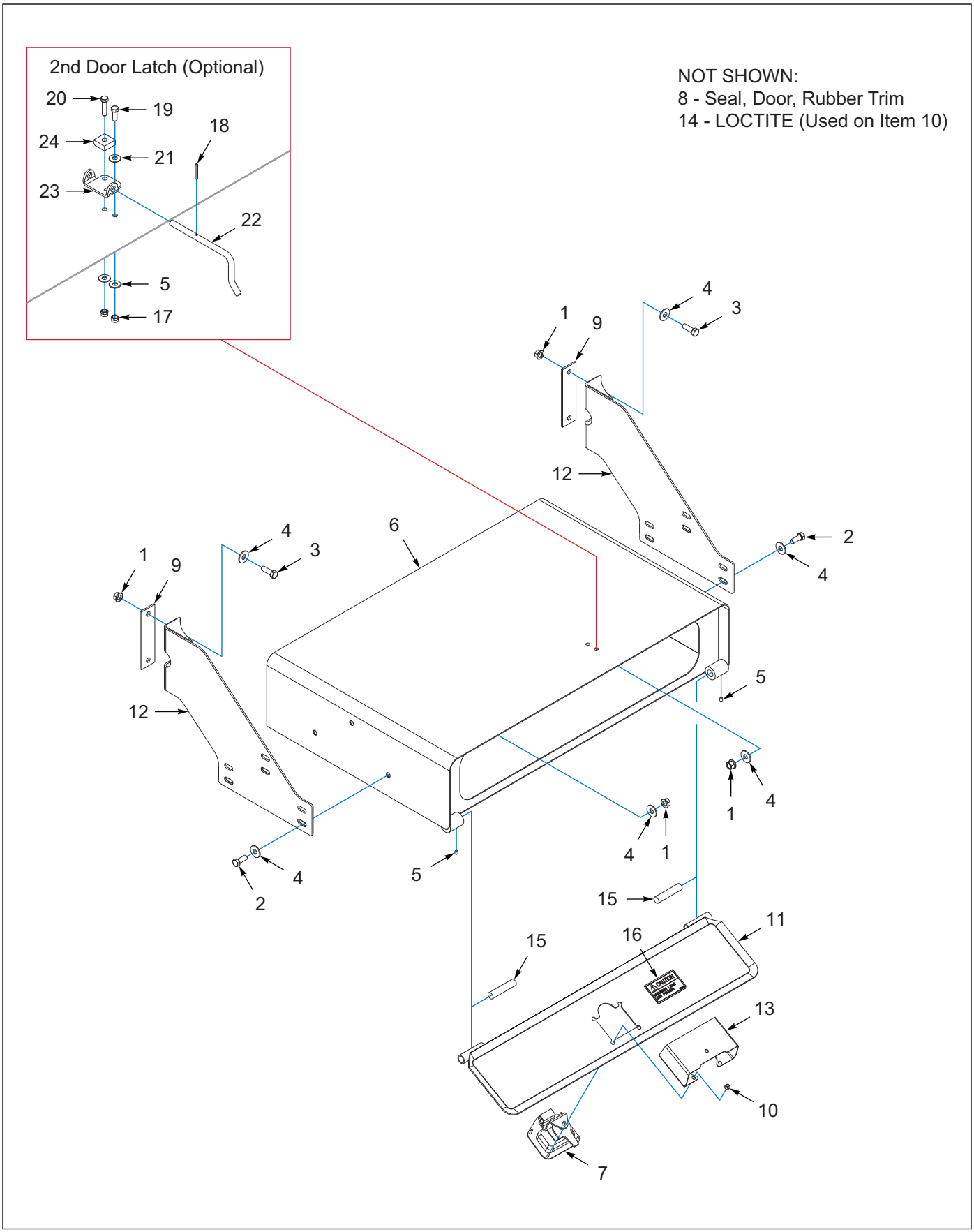


Figure 2-100: Toolbox, Bolt-On, 42”W X 28”D X 9”H (OPTIONS)

TOOLBOX, BOLT-ON, 42”W X 28”D X 9”H (OPTIONS)

ITEM	PART NO.	DESCRIPTION	QTY.
	114807	TOOLBOX INSTL 930 STL DOOR	- -
		(BOX 1 - STEEL DOOR, ITEMS 1-16)	
	116628	TOOLBOX INSTL 930 ALUM DOOR	- -
		(BOX 2 - ALUM. DOOR, ITEMS 1-16)	
	236297	2ND TOOLBOX LATCH INSTL	- -
		(BOX 3 - OPTIONAL ITEMS 17-24)	
1	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	10
2	1-654-010055-02	SCREW 1/2-13UNCX1-1/4 CP GR5	6
3	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
4	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	16
5	107-0975	SCREW SET LOCK 5/16-18X3/8LG	2
6	114808	TOOLBOX WLDMT 930	1
7	114814	LATCH FOLDING T LOCKABLE **(INCLUDES KEY CH545)**	1
8	114815	SEAL, SPONGE RUBBER TRIM **(BY THE FOOT)**	7
9	115843	BAR BACKUP TOOLBOX MTG	2
10	115877	NUT HVY HEX 1/4-20 GR5	4
11	116623	DOOR WLDMT STL 930 TOOLBOX **(BOX 1)**	1
11	116624	DOOR WLDMT ALUM 930 TOOLBOX **(BOX 2)**	1
12	117860	BRACKET WLDMT TOOLBOX MTG	2
13	153420	TOOLBOX LATCH SHIELD	1
14	#242 LOCKTITE	LOCKTITE 242 BLUE REMOVABLE **(BOTTLE)**	0.01
15	RPRB59004X3H	BAR RD, 3/4DIA X 3-1/2 NY LTR	2
16	205912	DECAL MAX LOAD 225	1
17	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16 **(BOX 3)**	2
18	1-647-010004177	PIN,SPRING,SLTD 3/16X1-1/2 **(BOX 3)**	1
19	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5 **(BOX 3)**	1
20	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2 **(BOX 3)**	1
21	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD **(BOX 3)**	3
22	190728	PIN DOOR STOP **(BOX 3)**	1
23	190729	BRACKET DOOR STOP **(BOX 3)**	1
24	192038	SPACER TOOLBOX **(BOX 3)**	1

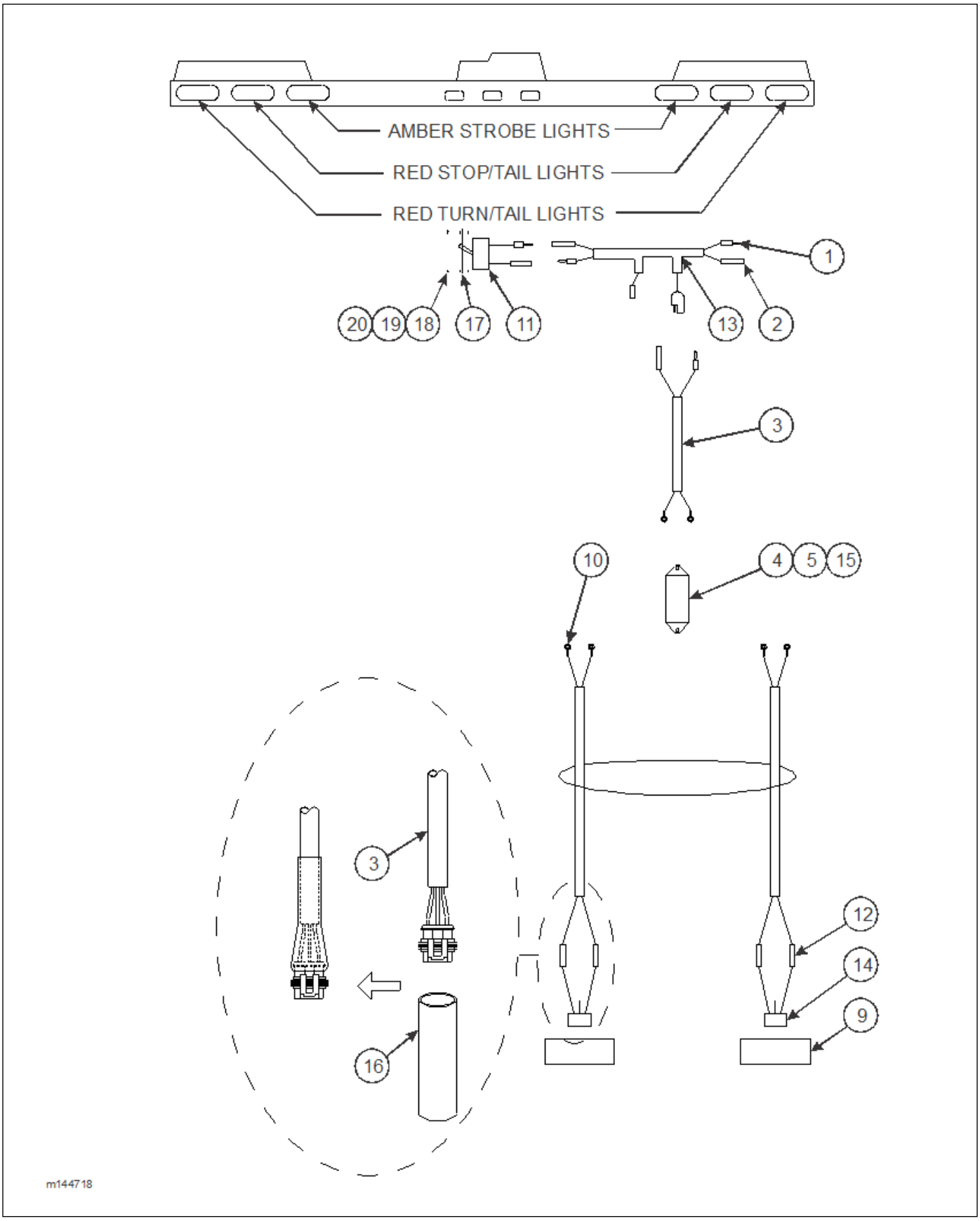


Figure 2-101: Rear Strobe Light Installation (Option)

REAR STROBE LIGHT INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	144718	REAR STROBE LIGHT INSTALLATION	- -
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 GRB	2
21	144608	DUMMY PLUG S/T/T LEAD GROTE **(NOT SHOWN)**	2

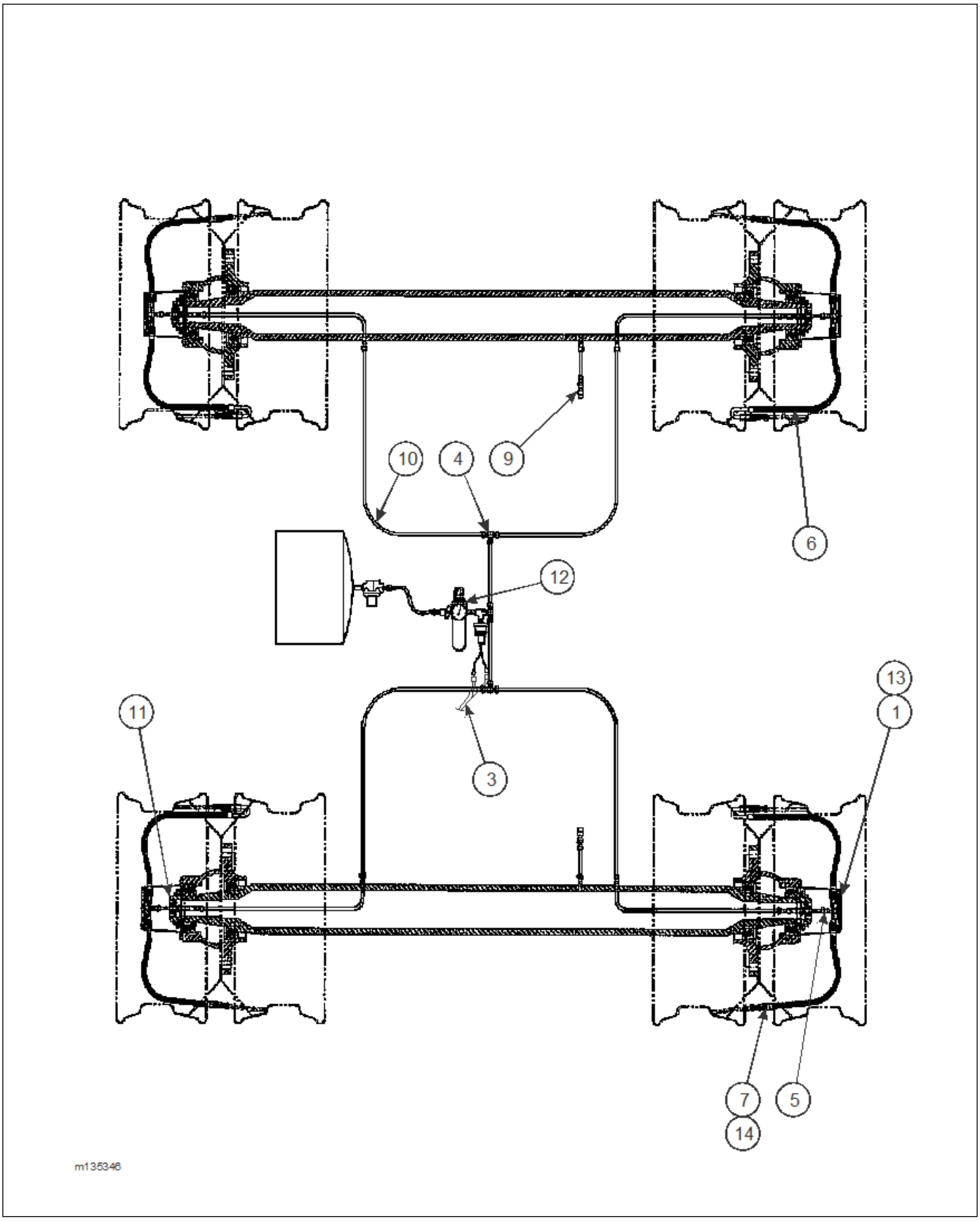


Figure 2-102: Tire Inflation System, Pressure Guard (Option) (BEFORE 11/01/2009)

TIRE INFLATION SYSTEM, PRESSURE GUARD (OPTION) (BEFORE 11/01/2009)

ITEM	PART NO.	DESCRIPTION	QTY.
	135346	TIRE INFLATION SYSTEM 2AX	- -
	137791	TIRE INFLATION SYSTEM 3AX	- -
1	148412	HUBCAP GASKET - 6 HOLE	*4, 6
2	1-796-010004-02	21" X 3/8 WIRE TIE **(NOT SHOWN)**	*6, 9
3	W214S-1	WARNING LIGHT WIRING	AR
4	148413	DUAL AXLE HARDWARE KIT **(135346)**	1
4	148417	TRIPLE AXLE HARDWARE KIT **(137791)** **(KITS INCL TEES, TUBE STRAIN RELIEF, SCREWS, PRESSURE RELIEF VALVE, WARNING LIGHT, AND ELECTRICAL PARTS)**	1
5	148414	ROTATING SHAFT ASSEMBLY .900"	*4, 6
6	145621	HOSE ASSEMBLY, OUTER DUAL LG TIRES	*4, 6
7	145620	HOSE ASSEMBLY, INNER DUAL LG TIRES	*4, 6
9	148415	AXLE VENT ASSEMBLY W/ DUCKBILL	*2, 3
10	1-833-010001	NYLON TUBE	AR
11	139528	1.75" INTEGRATED SPINDLE PLUG AXLE KIT	*2, 3
12	178749	REGULATOR ASSEMBLY, W/O PRESSURE GAUGE	1
13	139529	LOW PROFILE 5.5" HUBCAP ASSEMBLY	*4, 6
14	148418	HAND TIGHT HUBCAP CONNECTION, VALVE ASSEMBLY **(137791)**	12

*1ST QUANTITY IS FOR P/N 135346; 2ND QUANTITY IS FOR P/N 137791

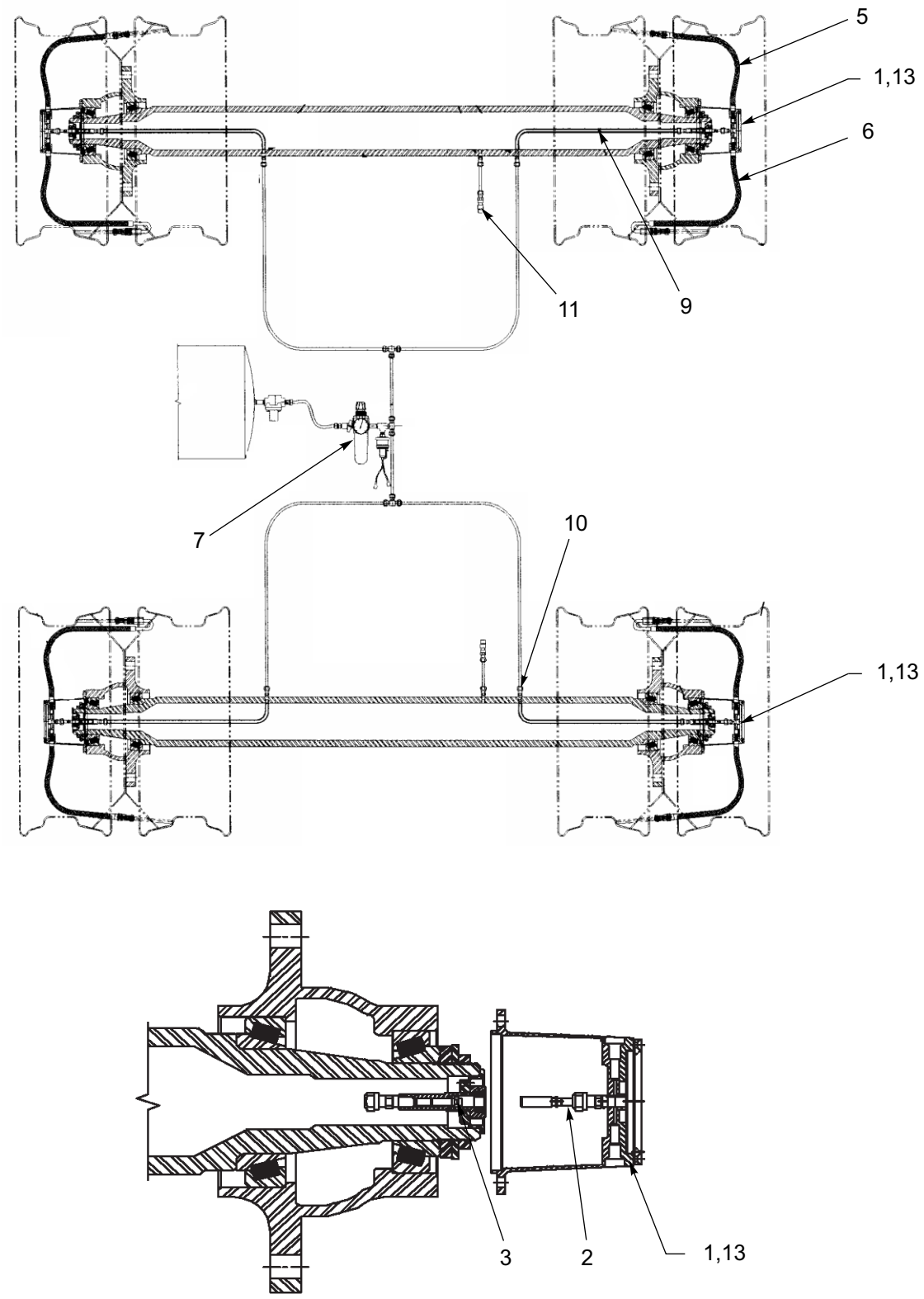


Figure 2-103: Tire Inflation System, Pressure Guard (Option) (FROM 11/01/2009 to 03/08/2013)

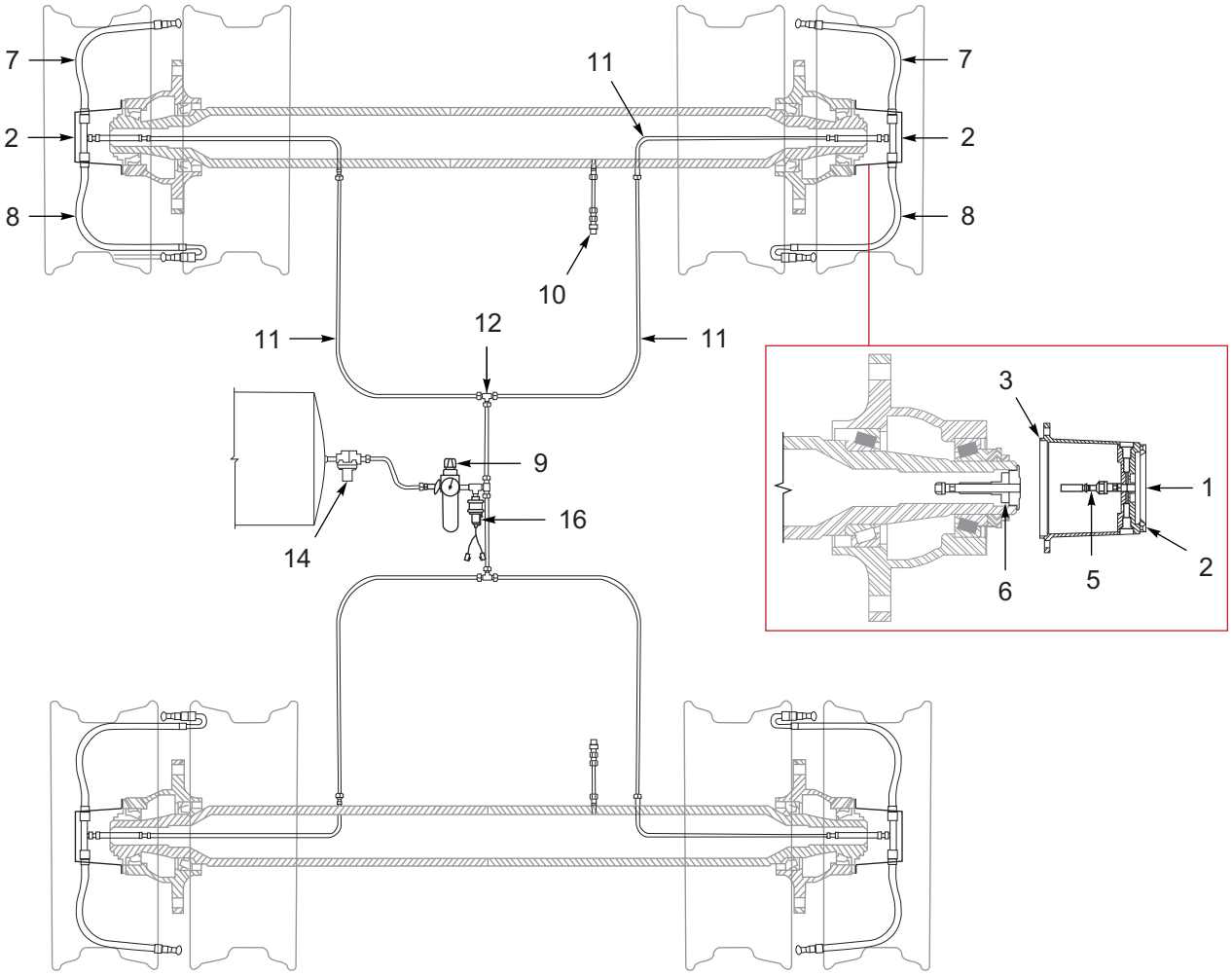
TIRE INFLATION SYSTEM, PRESSURE GURAD (OPTION) (11/01/2009 TO 03/08/2013)

ITEM	PART NO.	DESCRIPTION	QTY.
	157703	TIRE INFLATION SYSTEM 3AX	- -
	157702	TIRE INFLATION SYSTEM 2AX	- -
1	139529	HUB CAP ASSEMBLY, LOW PROFILE 5.5” OIL	*6, 4
2	157704	GASKET, HUB CAP	*6, 4
3	157705	ROTATING SHAFT, UNIVERSAL	*6, 4
4	157706	SPINDLE PLUG, 1.75”	*6, 4
5	157707	AIR CYLINDER ASSEMBLY **(NOT SHOWN)**	*6, 4
6	159338	HOSE ASSEMBLY, OUTER TIRE	*6, 4
7	159337	HOSE ASSEMBLY, INNER TIRE	*6, 4
8	148416	REGULATOR ASSEMBLY W/ BALL VALVE	1
9	- - - - -	WARNING LIGHT WIRE **(NOT SHOWN)**	1
10	- - - - -	NYLON AIR TUBE **(NOT SHOWN)**	1
11	- - - - -	CHAFE GUARD	1
12	- - - - -	LARGE WIRE TIES **(NOT SHOWN)**	3
13	148417	TRIPLE AXLE HARDWARE KIT **(NOT SHOWN)**	1
13	148413	DUAL AXLE HARDWARE KIT **(NOT SHOWN)**	1
14	- - - - -	AXLE VENT	1
15	145677	LIGHT PRESSURE GUARD **(NOT SHOWN)**	1
16	154653	PRESSURE SWITCH **(NOT SHOWN)**	1
17	085-002-02	RUBBER PLUG	#6,4

* 1ST QUANTITY IS USED ON P/N 157703; 2ND QUANTITY IS USED ON P/N 157702

NOTE: 2 Axle System Shown for Reference Only.

IMPORTANT: Old Style Silver Spindle Plug is NOT COMPATABLE with New Style Hub Cab and Rotating Shaft. Order Item 6, Black Spindle Plug.



NOT SHOWN:
4 - Kit, Spindle Plug W/Rotating Shaft (Items 5-6)
13 - Decal
15 - Light, Pressure Guard
17 - Kit, Axle Plumbing
18 - Chafe Guard
19 - Wire Ties, Large
20 - Light, WARNING

NOTE: QTY Column Shows Quantity Per Axle

Figure 2-104: Tire Inflation System, Pressure Guard (OPTION) (After 03/08/2013)

TIRE INFLATION SYSTEM, PRESSURE GUARD (OPTION) (AFTER 03/08/2013)

ITEM	PART NUMBER	DESCRIPTION	QTY
	157702	TIRE INFLATION SYSTEM 2AX	- -
	157703	TIRE INFLATION SYSTEM 3AX	- -
1	085-002-02	PLUG OIL CAP DEXTR-REPLCS 5990	2
2	139529	HUBCAP ASSY #75168 **(KIT INCLUDES ITEMS 3, 5, FITTINGS, AND MOUNT BOLTS)**	2
3	157704	GASKET HUB CAP #50008 **(INCLUDED WITH ITEM 2)**	2
4	194159	SPINDLE PLUG W/ROTATING SHAFT **(KIT INCLUDES ITEMS 5-6)**	2
5	157705	ROTATING SHAFT UNIV #10565 **(INCLUDED WITH ITEMS 2, 4)**	2
6	157706	SPINDLE PLUG 1.7 5" # 10874L **(INCLUDED WITH ITEM 4)** **(NEW SYTLE BLACK PLUG REPLACES OLD SILVER PLUG)**	2
7	180839	TIS LONG HOSE	2
8	180840	TIS SHORT HOSE	2
9	178749	REGULATOR ASSEMBLY, 120 PSI **(BEFORE 01/23/2018)**	1
9	212347	REGULATOR TIS W/CONN LEAD ASSY **(AFTER 01/23/2018)** **(KIT INCLUDES LOW-PRESSURE SWITCH AND LEAD ASSEMBLY)**	1
10	182086	VENT TUBE ASSEMBLY	1
11	1-833-010001	TUBING NYLON 1/4 OD **(BY THE FOOT)** **(1 AXLE, REQ 25') (2 AXLE, REQ 45') (3 AXLE, REQ 65') (ITEM 17, INCLUDES 5.25')**	- -
12	1-297-010010-01	FITTING,AIR,UNION TEE 1/4 **(INCLUDED WITH ITEM 17)**	1
13	169832	DECAL LIGHT PRESSURE GUARD	1
14	178751	AIR TANK PLUMBING KIT **(INCLUDES PRESSURE PROTECT VALVE & HARDWARE)**	1
15	178752	LIGHT PRESSURE GUARD	1
16	178753	PRESSURE SWITCH PRESSURE GUARD	1
17	- - - - -	AXLE PLUMBING KIT **(INCLUDES ITEMS 11-12 & AXLE FITTINGS)**	1
18	- - - - -	CHAFE GUARD **(BY THE FOOT)** **(1 AXLE, REQ 8') (2 AXLE, REQ 16') (3 AXLE, REQ 25')**	- -
19	- - - - -	LARGE WIRE TIES **(1 AXLE, REQ 2) (2 AXLE, REQ 4) (3 AXLE, REQ 6)**	- -
20	178750	WARNING LIGHT KIT **(BEFORE 04/01/2016)**	1
20	183413	LIGHT,WHT LED .75 CL/MK GROTE **(AFTER 04/01/2016)**	1

Table provided for general use.

NOTES:

Chapter 3

Index

Symbols

#242 LOCKTITE *2-51*, *2-185*

Numerics

0013007 . . . . . *2-187*
005-074-00 . . . . . *2-67*
005-079-00 . . . . . *2-68*, *2-74*
005-096-00 . . . . . *2-73*
005-097-00 . . . . . *2-73*
006-115-00 . . . . . *2-71*, *2-77*
007-139-00 . . . . . *2-68*, *2-74*
010700437 . . . . . *2-22*
014-065-00 . . . . . *2-73*
014-068-00 . . . . . *2-67*, *2-73*
034-031-00 . . . . . *2-68*
034-032-00 . . . . . *2-68*, *2-74*
034-047-00 . . . . . *2-74*
034-048-00 . . . . . *2-67*, *2-73*
034-188-03 . . . . . *2-67*
034-189-03 . . . . . *2-67*
034-192-05 . . . . . *2-73*
034-193-05 . . . . . *2-73*
040-180-00 . . . . . *2-73*
041300135 . . . . . *2-19*
042000229 . . . . . *2-19*
046-096-00 . . . . . *2-73*
046-097-00 . . . . . *2-67*, *2-73*
056-017-00 . . . . . *2-67*, *2-73*
056-018-00 . . . . . *2-67*, *2-73*
0600-250-03000 . . . . . *2-9*, *2-13*
0600-375-01500 . . . . . *2-9*
061-003-00 . . . . . *2-67*, *2-73*
069-078-00 . . . . . *2-67*, *2-73*
071-122-00 . . . . . *2-73*
081900277 . . . . . *2-19*
085-002-02 . . . . . *2-191*, *2-193*
100000330 . . . . . *2-22*
100276 . . . . . *2-131*
100279 . . . . . *2-131*
100348 . . . . . *2-131*
100402 . . . . . *2-79*
100422 . . . . . *2-131*
100600 . . . . . *2-91*, *2-97*, *2-101*, *2-137*
1-007-010006 . . . . . *2-27*, *2-31*
1-007-010007 . . . . . *2-141*
1-007-010008 . . . . . *2-141*
1-007-010025 . . . . . *2-125*
1-007-010041-1 . . . . . *2-127*
1-007-010058 . . . . . *2-127*
10078 . . . . . *2-97*, *2-100*
100823 . . . . . *2-4*
100949 . . . . . *2-83*
101062 . . . . . *2-13*
101162 . . . . . *2-71*, *2-77*
101268 . . . . . *2-13*, *2-137*
101386 . . . . . *2-9*
101528 . . . . . *2-44*, *2-48*

101847 . . . . . *2-67*, *2-73*, *2-85*
101848 . . . . . *2-85*
101849 . . . . . *2-67*, *2-73*, *2-85*
101855 . . . . . *2-137*
102-1097 . . . . . *2-129*
102186 . . . . . *2-90*, *2-93*
102187 . . . . . *2-90*
102188 . . . . . *2-90*
102361 . . . . . *2-64*
102363 . . . . . *2-57*, *2-59*, *2-64*
102364 . . . . . *2-64*
102698 . . . . . *2-44*, *2-48*
102732 . . . . . *2-57*, *2-61*
103055 . . . . . *2-137*
103056 . . . . . *2-51*, *2-137*
103082 . . . . . *2-57*
103083 . . . . . *2-57*
103084 . . . . . *2-59*
103103-002 . . . . . *2-71*, *2-77*
103738 . . . . . *2-83*
103773 . . . . . *2-87*
103796 . . . . . *2-87*
103797 . . . . . *2-87*
103805 . . . . . *2-67*, *2-73*
103816 . . . . . *2-83*
103817 . . . . . *2-83*
103861 . . . . . *2-85*
104034 . . . . . *2-44*, *2-48*
104238 . . . . . *2-138*
104239 . . . . . *2-141*
104240 . . . . . *2-141*
104241 . . . . . *2-141*
104242 . . . . . *2-141*
104243 . . . . . *2-139*
104252 . . . . . *2-13*
104253 . . . . . *2-13*
1046 . . . . . *2-102*
104923 . . . . . *2-48*
105-0094 . . . . . *2-4*
105-0105 . . . . . *2-149*, *2-165*
105106 . . . . . *2-71*, *2-77*
105107 . . . . . *2-71*, *2-77*
105276 . . . . . *2-177*
105408 . . . . . *2-64*
105479 . . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-173*
105480 . . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-173*
105481 . . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-173*
105482 . . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-166*, *2-174*
105483 . . . . . *2-16*, *2-24*
105822 . . . . . *2-16*, *2-25*, *2-137*
105827 . . . . . *2-13*
105902 . . . . . *2-25*
105943 . . . . . *2-13*
105944 . . . . . *2-13*
105945 . . . . . *2-13*
105946 . . . . . *2-13*
105953 . . . . . *2-110*
105954 . . . . . *2-110*
105967 . . . . . *2-110*
106120 . . . . . *2-22*
106218 . . . . . *2-4*
106379 . . . . . *2-118*
106385 . . . . . *2-118*
106603 . . . . . *2-53*
106604 . . . . . *2-53*
106759 . . . . . *2-27*, *2-31*
106760 . . . . . *2-27*, *2-31*
107-0975 . . . . . *2-185*
107358 . . . . . *2-129*, *2-137*
107359 . . . . . *2-129*, *2-137*
107368 . . . . . *2-90*, *2-103*
107391 . . . . . *2-129*
107398 . . . . . *2-129*
107498 . . . . . *2-27*, *2-31*
107499 . . . . . *2-27*, *2-31*
107500 . . . . . *2-27*, *2-31*

107513 . . . . . *2-27*, *2-31*
107873 . . . . . *2-83*
108295 . . . . . *2-166*, *2-174*
108417 . . . . . *2-51*
108601 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
108801 . . . . . *2-24*, *2-87*
108802 . . . . . *2-24*, *2-87*
109159 . . . . . *2-138*
109160 . . . . . *2-138*
109161 . . . . . *2-138*
109214 . . . . . *2-71*
109405 . . . . . *2-83*
109533 . . . . . *2-64*
109709 . . . . . *2-138*, *2-143*
1-1/4ST ELL *2-27*, *2-31*
110-0116 . . . . . *2-166*, *2-173*
110-0253 . . . . . *2-166*, *2-173*
110449 . . . . . *2-97*
110452 . . . . . *2-97*, *2-101*
110578 . . . . . *2-150*, *2-157*, *2-166*, *2-174*
110975 . . . . . *2-77*
110976 . . . . . *2-77*
111008 . . . . . *2-64*
111010 . . . . . *2-64*
111011 . . . . . *2-64*
111012 . . . . . *2-64*
111013 . . . . . *2-64*
111014 . . . . . *2-64*
111015 . . . . . *2-64*
111016 . . . . . *2-64*
111017 . . . . . *2-64*
111018 . . . . . *2-64*
111021 . . . . . *2-61*
111022 . . . . . *2-64*
111023 . . . . . *2-64*
111024 . . . . . *2-129*
111089 . . . . . *2-25*
111090 . . . . . *2-25*
111091 . . . . . *2-119*, *2-121*
111092 . . . . . *2-119*, *2-121*
111093 . . . . . *2-119*, *2-121*
111094 . . . . . *2-119*, *2-121*
111095 . . . . . *2-119*, *2-121*
111096 . . . . . *2-119*, *2-121*
11117 . . . . . *2-96*
111276 . . . . . *2-141*
11128 . . . . . *2-96*
11129 . . . . . *2-96*
11130 . . . . . *2-96*
11133 . . . . . *2-96*
111351 . . . . . *2-118*
111383 . . . . . *2-119*
111384 . . . . . *2-119*
111385 . . . . . *2-113*, *2-119*
111386 . . . . . *2-113*, *2-119*
111387 . . . . . *2-118*
111416 . . . . . *2-79*
111417 . . . . . *2-79*
11142 . . . . . *2-96*
11144 . . . . . *2-96*
111641 . . . . . *2-106*
111652 . . . . . *2-79*
111688 . . . . . *2-4*
111689 . . . . . *2-4*
111694 . . . . . *2-138*
111695 . . . . . *2-138*
111696 . . . . . *2-129*
111697 . . . . . *2-4*
111859 . . . . . *2-138*
111866 . . . . . *2-22*
111870 . . . . . *2-22*
112047 . . . . . *2-79*
11240 . . . . . *2-97*
112492 . . . . . *2-71*
112546 . . . . . *2-129*
112548 . . . . . *2-129*

112549 . . . . . *2-44*
112575 . . . . . *2-48*
112641 . . . . . *2-121*
112678 . . . . . *2-139*
112679 . . . . . *2-139*
112685 . . . . . *2-141*
11308 . . . . . *2-96*
11309 . . . . . *2-100*
11310 . . . . . *2-100*
113109 . . . . . *2-77*
113268 . . . . . *2-44*, *2-48*
113282 . . . . . *2-141*
113388 . . . . . *2-149*, *2-157*, *2-165*, *2-174*, *2-177*
113389 . . . . . *2-137*, *2-141*
113394 . . . . . *2-177*
113459 . . . . . *2-9*
113512 . . . . . *2-137*
113513 . . . . . *2-137*
113514 . . . . . *2-137*
113515 . . . . . *2-137*
113518 . . . . . *2-137*
113519 . . . . . *2-4*
113520 . . . . . *2-137*
113536 . . . . . *2-71*, *2-77*
113541 . . . . . *2-177*
113544 . . . . . *2-150*, *2-157*, *2-166*, *2-175*
11368 . . . . . *2-96*
113819 . . . . . *2-67*, *2-73*
113856 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
11398 . . . . . *2-100*
11411 . . . . . *2-100*
11419 . . . . . *2-99*
11420 . . . . . *2-99*
11421 . . . . . *2-99*
114241 . . . . . *2-118*
11425 . . . . . *2-99*
11426 . . . . . *2-100*
11429 . . . . . *2-100*
11430 . . . . . *2-100*
11431 . . . . . *2-100*
11434 . . . . . *2-99*
11440 . . . . . *2-99*
11441 . . . . . *2-99*
11446 . . . . . *2-100*
114485 . . . . . *2-5*
11449 . . . . . *2-99*
114529 . . . . . *2-143*
114540 . . . . . *2-33*, *2-35*
114553 . . . . . *2-39*
114554 . . . . . *2-141*
114574 . . . . . *2-137*
114575 . . . . . *2-137*
114584 . . . . . *2-83*, *2-85*
114586 . . . . . *2-83*, *2-85*
114588 . . . . . *2-85*
114619 . . . . . *2-71*
114807 . . . . . *2-185*
114808 . . . . . *2-185*
114814 . . . . . *2-149*, *2-157*, *2-165*, *2-174*, *2-185*
114815 . . . . . *2-149*, *2-157*, *2-165*, *2-174*, *2-185*
114983 . . . . . *2-143*
115585 . . . . . *2-177*
115587 . . . . . *2-177*
115588 . . . . . *2-177*
115601 . . . . . *2-149*, *2-157*, *2-177*
115607 . . . . . *2-177*
115709 . . . . . *2-67*
115843 . . . . . *2-185*
115851 . . . . . *2-97*, *2-101*
115877 . . . . . *2-150*, *2-157*, *2-166*, *2-174*, *2-185*
115888 . . . . . *2-149*, *2-157*, *2-165*, *2-175*
116326 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
116328 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
116330 . . . . . *2-149*, *2-157*, *2-165*, *2-174*, *2-177*
116623 . . . . . *2-185*
116624 . . . . . *2-185*

116628 . . . . . *2-185*
117304 . . . . . *2-83*
117860 . . . . . *2-185*
117873 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
11791 . . . . . *2-100*
1-181-010046-7 . *2-150*, *2-158*, *2-166*, *2-173*, *2-177*
118-2659-9 . . . . . *2-83*
11837 . . . . . *2-96*
119084 . . . . . *2-115*
119206 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
119445 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
119553 . . . . . *2-158*, *2-174*
119577 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
119580FI *2-51*
119621 . . . . . *2-91*
119622 . . . . . *2-90*
120384 . . . . . *2-177*
120385 . . . . . *2-177*
120654 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
120659 . . . . . *2-150*, *2-157*, *2-166*, *2-174*
120660 . . . . . *2-150*, *2-157*, *2-166*, *2-174*
120661 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
120662 . . . . . *2-149*, *2-157*, *2-177*
120724 . . . . . *2-177*
120725 . . . . . *2-177*
120726 . . . . . *2-177*
12073 . . . . . *2-100*
120749 . . . . . *2-39*
12075 . . . . . *2-97*
120751 . . . . . *2-35*
121355 . . . . . *2-44*, *2-48*
121369FI *2-51*
12146 . . . . . *2-100*
12-16 070120 . . . . . *2-27*, *2-31*
122333 . . . . . *2-106*, *2-113*
122334 . . . . . *2-113*
122336 . . . . . *2-113*
122337 . . . . . *2-113*
122458 . . . . . *2-113*
123014 . . . . . *2-150*, *2-157*, *2-166*, *2-174*
123166 . . . . . *2-165*, *2-173*, *2-178*
123210 . . . . . *2-89*
123882 . . . . . *2-77*
12412300-08 . . . . . *2-177*
1-242-010178-2 . . . . . *2-22*
1-242-010180-2 . . . . . *2-22*, *2-141*
124549 . . . . . *2-99*
12465 . . . . . *2-100*
125130 . . . . . *2-27*, *2-31*
125684 . . . . . *2-101*
125892 . . . . . *2-91*
125894 . . . . . *2-51*
126292 . . . . . *2-73*
126900 . . . . . *2-64*
12767 . . . . . *2-100*
127777 . . . . . *2-67*
127813 . . . . . *2-149*, *2-157*, *2-165*, *2-174*
12783 . . . . . *2-100*
12817 . . . . . *2-96*
128501 . . . . . *2-150*, *2-159*, *2-166*, *2-175*
128774 . . . . . *2-166*, *2-174*
129005 . . . . . *2-64*
129006 . . . . . *2-64*
129198 . . . . . *2-143*
129264 . . . . . *2-165*, *2-174*
129287 . . . . . *2-166*, *2-174*
1-295-010001 *2-27*, *2-31*, *2-149*, *2-158*, *2-165*, *2-173*
1-297-010007-04 . . . . . *2-90*, *2-106*, *2-118*
1-297-010007-05 . . . . . *2-90*, *2-118*
1-297-010007-11 . . . . . *2-57*, *2-59*, *2-182*
1-297-010007-12 . . . . . *2-83*, *2-87*
1-297-010007-15 . . . . . *2-83*
1-297-010007-16 . . . . . *2-83*
1-297-010007-18 . . . . . *2-83*
1-297-010008-05 . . . *2-59*, *2-91*, *2-106*, *2-115*, *2-118*
1-297-010008-07 . . . . *2-57*, *2-59*, *2-90*, *2-106*, *2-118*

1-297-010008-18 . . . . . *2-59*, *2-83*
1-297-010008-21 . . . . . *2-177*
1-297-010008-24 . . . . . *2-83*
1-297-010008-26 . . . . . *2-83*
1-297-010010-01 . . . . . *2-57*, *2-59*, *2-193*
1-297-010010-03 . . . . . *2-59*
1-297-010010-04 . . . . . *2-57*, *2-59*, *2-180*
1-297-010011-02 . . . . . *2-106*
1-297-010013-12 . . . . . *2-87*
1-297-010015-02 . . . . . *2-59*, *2-91*, *2-115*
1-297-010015-03 . . . . . *2-59*, *2-119*
1-297-010015-09 . . . . . *2-106*
1-297-010017-03 . . . . . *2-83*
1-297-010018-03 . . . . . *2-87*
1-297-010018-04 . . . . . *2-57*, *2-83*, *2-182*
1-297-010019-05 . . . . . *2-91*, *2-119*
1-297-010020-02 . . . . . *2-91*, *2-106*, *2-118*
1-297-010021-05 . . . . . *2-87*
1-297-010022-02 . . . . . *2-91*, *2-106*, *2-118*, *2-182*
1-297-010022-03 . . . . . *2-87*
1-297-010031-02 . . . . . *2-90*, *2-118*
1-297-010032-03 . . . . . *2-90*, *2-118*
1-297-010033-03 . . . . . *2-87*
1-297-010034-01 . . . . . *2-149*, *2-158*, *2-165*, *2-173*
1-298-010001-1 . . . . . *2-4*
13028 . . . . . *2-97*, *2-100*
130511 . . . . . *2-4*
130883 . . . . . *2-187*
130884 . . . . . *2-187*
1-316-010013 . . . . . *2-149*, *2-158*, *2-165*, *2-173*
132103 . . . . . *2-115*
132104 . . . . . *2-115*
132106 . . . . . *2-122*, *2-123*
132163 . . . . . *2-177*
132833 . . . . . *2-106*
133938 . . . . . *2-115*
133941 . . . . . *2-115*
13424 . . . . . *2-97*, *2-101*
1-343-010007 . . . . . *2-182*
13468 . . . . . *2-97*
134757 . . . . . *2-79*
134857 . . . . . *2-178*
135181 . . . . . *2-4*
135346 . . . . . *2-189*
136377 . . . . . *2-33*, *2-37*
136378 . . . . . *2-33*, *2-37*
136578 . . . . . *2-178*
13680 . . . . . *2-97*
136991 . . . . . *2-67*
136992 . . . . . *2-67*
137028 . . . . . *2-115*
137108 . . . . . *2-77*
137421 . . . . . *2-109*
137422 . . . . . *2-109*
137424 . . . . . *2-121*
137425 . . . . . *2-121*
137426 . . . . . *2-121*
137427 . . . . . *2-121*
137428 . . . . . *2-121*
137461 . . . . . *2-73*
137485 . . . . . *2-73*
137569 . . . . . *2-109*
137570 . . . . . *2-109*
137641 . . . . . *2-109*
137791 . . . . . *2-189*
137879 . . . . . *2-110*
137880 . . . . . *2-109*, *2-110*
137881 . . . . . *2-110*
137882 . . . . . *2-109*
137883 . . . . . *2-109*
137884 . . . . . *2-109*
137885 . . . . . *2-109*
137886 . . . . . *2-109*
137888 . . . . . *2-109*
137987 . . . . . *2-187*
137993 . . . . . *2-109*

137994 ..... *2-109*
138054 ..... *2-68*
138090 ..... *2-73*
138155 ..... *2-127*
138179 ..... *2-39*
1-382-010035-06 ..... *2-106*
13839 ..... *2-97*
1-384-010038024 ..... *2-83*
1-384-010038038 ..... *2-83*
1-384-010038060 ..... *2-83*
1-384-010038076 ..... *2-83*
1-384-010038084 ..... *2-83*
1-384-010038259 ..... *2-87*
138719 ..... *2-67*
13894 ..... *2-121*
138958 ..... *2-73*
138959 ..... *2-73*
139383 ..... *2-73*
1-394-010001 ..... *2-83*
1-394-010002 ..... *2-127*
139478 ..... *2-99*
139479 ..... *2-99*
139519 ..... *2-33*, *2-37*
139521 ..... *2-4*, *2-137*
139527 ..... *2-15*, *2-33*
139528 ..... *2-189*
139529 ..... *2-189*, *2-191*, *2-193*
139537 ..... *2-41*
139559 ..... *2-137*
139600 ..... *2-79*
1-397-010262252 ..... *2-127*
1-397-010262-3 ..... *2-127*
1-397-010262-4 ..... *2-127*
1-397-010262-5 ..... *2-127*
1-397-010301028 ..... *2-16*, *2-129*
1-397-010301076 ..... *2-16*
1-397-010301100 ..... *2-27*, *2-31*
1-397-010301170 ..... *2-89*
1-397-010301208 ..... *2-15*, *2-118*
1-397-010301244 ..... *2-15*
1-397-010301268 ..... *2-15*
1-397-010301304 ..... *2-15*
1-397-010302068 ..... *2-16*
1-397-010302172 ..... *2-90*
1-397-010302220 ..... *2-106*
1-397-010304018 ..... *2-150*, *2-158*, *2-166*, *2-173*
1-397-010304025 ..... *2-129*
1-397-010304026 ..... *2-141*
1-397-010304031 ..... *2-141*
1-397-010304060 ..... *2-166*, *2-173*
1-397-010304135 ..... *2-177*
1-397-010305164 ..... *2-15*
1-397-010305190 ..... *2-15*
1-397-010306028 ..... *2-129*
1-397-010307296 ..... *2-129*
1-397-010307356 ..... *2-129*
1-397-010309296 ..... *2-129*
1-397-010309356 ..... *2-129*
1-397-010312032 ..... *2-166*, *2-173*
1-397-010342064 ..... *2-177*
1-397-010361036 ..... *2-141*
1-397-010361060 ..... *2-141*
1-397-010361084 ..... *2-141*
1-397-010361108 ..... *2-141*
1-397-010369324 ..... *2-16*
140026 ..... *2-19*
140083 ..... *2-41*
140319 ..... *2-21*
1410792 ..... *2-149*, *2-158*, *2-166*, *2-175*
141456 ..... *2-121*
141547 ..... *2-121*
141700023 ..... *2-22*
142441 ..... *2-44*, *2-48*
142442 ..... *2-44*, *2-48*
142443 ..... *2-44*, *2-48*
142444 ..... *2-44*, *2-48*

142446 . . . . . *2-44*, *2-48*
142447 . . . . . *2-44*, *2-48*
142454 . . . . . *2-48*
142483 . . . . . *2-35*, *2-39*
142484 . . . . . *2-35*, *2-39*
142485 . . . . . *2-35*, *2-39*
142486 . . . . . *2-35*, *2-39*
142545 . . . . . *2-44*, *2-48*
142546 . . . . . *2-71*
142547 . . . . . *2-71*
142549 . . . . . *2-71*
142550 . . . . . *2-71*
142895 . . . . . *2-179*
143100 . . . . . *2-41*
143101 . . . . . *2-41*
143102 . . . . . *2-41*
143103 . . . . . *2-41*, *2-44*, *2-48*, *2-85*
143104 . . . . . *2-41*, *2-44*, *2-48*
143105 . . . . . *2-41*
143106 . . . . . *2-41*
143107 . . . . . *2-41*
143108 . . . . . *2-41*
143109 . . . . . *2-41*
143110 . . . . . *2-41*
143111 . . . . . *2-41*
143113 . . . . . *2-41*, *2-187*
143114 . . . . . *2-7*, *2-41*
143115 . . . . . *2-41*
143116 . . . . . *2-41*
143117 . . . . . *2-41*
143118 . . . . . *2-41*
143119 . . . . . *2-41*
143120 . . . . . *2-41*
143122 . . . . . *2-41*
143128 . . . . . *2-41*, *2-137*
143141 . . . . . *2-39*
143160 . . . . . *2-35*
143161 . . . . . *2-35*
143163 . . . . . *2-24*
143181 . . . . . *2-15*
143182 . . . . . *2-44*, *2-48*
143688 . . . . . *2-44*, *2-48*, *2-137*
144608 . . . . . *2-187*
144614 . . . . . *2-48*
144718 . . . . . *2-187*
145356 . . . . . *2-7*
145357 . . . . . *2-7*
145416 . . . . . *2-48*
145522 . . . . . *2-87*
145532 . . . . . *2-44*, *2-49*
145620 . . . . . *2-189*
145621 . . . . . *2-189*
145677 . . . . . *2-191*
147315 . . . . . *2-35*
147464 . . . . . *2-85*
148138 . . . . . *2-21*
148140 . . . . . *2-21*
148240 . . . . . *2-37*, *2-39*
148243 . . . . . *2-15*, *2-37*
148412 . . . . . *2-189*
148413 . . . . . *2-189*, *2-191*
148414 . . . . . *2-189*
148415 . . . . . *2-189*
148416 . . . . . *2-191*
148417 . . . . . *2-189*, *2-191*
148418 . . . . . *2-189*
149030 . . . . . *2-39*
149526 . . . . . *2-39*
149527 . . . . . *2-39*
149528 . . . . . *2-39*
149529 . . . . . *2-39*
149530 . . . . . *2-39*
149543 . . . . . *2-179*
150346 . . . . . *2-79*
150900 . . . . . *2-48*, *2-53*, *2-54*
150901 . . . . . *2-48*, *2-53*, *2-54*

150908 . . . . . *2-44*, *2-53*, *2-54*

1-510-010001 . . . *2-15*, *2-41*, *2-44*, *2-48*, *2-54*, *2-83*, *2-87*, *2-90*, *2-127*

1-510-010003-09 . . . . . *2-185*

15-1012 . . . . . *2-131*

1-511-010001-07 . . . . . *2-115*

1-511-010001-14 . . . . . *2-44*, *2-48*

1-512-010002-15 . . . . . *2-51*

1-512-010003-02 . . . . . *2-91*, *2-106*, *2-118*

1-512-010003-03 . . . . . *2-174*

1-512-010004-03 . . . . . *2-91*, *2-166*, *2-173*

1-512-010005-01 . *2-4*, *2-44*, *2-48*, *2-51*, *2-57*, *2-59*, *2-61*, *2-87*, *2-180*, *2-187*

1-512-010005-03 . . . . . *2-4*, *2-129*, *2-180*, *2-187*

1-512-010005-05 . . *2-4*, *2-7*, *2-27*, *2-83*, *2-90*, *2-93*, *2-138*, *2-149*, *2-158*, *2-165*, *2-173*, *2-177*, *2-185*

1-512-010005-09 . . *2-4*, *2-7*, *2-27*, *2-44*, *2-48*, *2-91*, *2-93*, *2-106*, *2-115*, *2-118*, *2-124*, *2-125*, *2-127*, *2-149*, *2-158*, *2-165*, *2-173*, *2-177*, *2-178*, *2-181*

1-512-010005-13 . . . *2-44*, *2-48*, *2-90*, *2-106*, *2-113*, *2-119*, *2-138*, *2-139*, *2-141*

1-512-010005-15 . . . . . *2-16*, *2-106*

1-512-010007-03 . . . . . *2-4*, *2-59*

1-512-010007-05 . . . . *2-53*, *2-67*, *2-73*, *2-91*, *2-119*

1-512-010007-09 . . . . . *2-64*

1-512-010007-11 . . . . . *2-115*

1-512-010007-12 . . . . . *2-91*

1-512-010007-16 . . . . . *2-4*

151823 . . . . . *2-39*

1-533-010001 . . . . . *2-13*

153420 . . . . . *2-185*

154653 . . . . . *2-191*

1-557-010014 . . . . . *2-7*

1-557-010362-54 . . . . . *2-5*, *2-15*

1-557-010362-63 . . . . . *2-7*

1-560-010002-01 . . . . . *2-91*

1-560-010002-02 . . . . . *2-83*, *2-182*

1-560-010002-03 . . . . . *2-83*, *2-166*, *2-173*

1-560-010002-04 . . . *2-27*, *2-83*, *2-87*, *2-150*, *2-158*

1-560-010002-05 . . . . . *2-27*, *2-83*

1-560-010002-07 . . . . . *2-27*

156528 . . . . . *2-121*

157330 . . . . . *2-27*, *2-31*

157702 . . . . . *2-191*, *2-193*

157703 . . . . . *2-191*, *2-193*

157704 . . . . . *2-191*, *2-193*

157705 . . . . . *2-191*, *2-193*

157706 . . . . . *2-191*, *2-193*

157707 . . . . . *2-191*

159001 . . . . . *2-74*

159337 . . . . . *2-191*

159338 . . . . . *2-191*

160094 . . . . . *2-115*

161573 . . . . . *2-115*

1-626-010002-03 . . . . . *2-129*

1-630-010021-01 . . . . . *2-15*

1-630-010021-02 . . . . . *2-4*

163472 . . . . . *2-99*

163502 . . . . . *2-143*

1-647-010004117 . . . . . *2-9*, *2-13*

1-647-010004177 . . . . . *2-13*, *2-185*

1-647-010004255 . . . . . *2-4*, *2-90*

1-654-010024014 . . . . . *2-91*, *2-106*, *2-118*

1-654-010032-4 . . . . . *2-51*

1-654-010036-05 . . . . . *2-90*, *2-118*

1-654-010047-04 . . . . . *2-57*, *2-59*, *2-61*, *2-115*

1-654-010047-06 *2-118*, *2-149*, *2-158*, *2-165*, *2-173*, *2-180*, *2-187*

1-654-010047-07 . . . . . *2-44*, *2-48*

1-654-010049-03 . . . . . *2-71*, *2-77*

1-654-010049-05 . . . . . *2-180*, *2-187*

1-654-010049-11 . . . . . *2-129*

1-654-010051-05 *2-4*, *2-33*, *2-37*, *2-127*, *2-138*, *2-185*

1-654-010051-06 *2-7*, *2-27*, *2-90*, *2-93*, *2-149*, *2-158*, *2-165*, *2-173*, *2-177*

1-654-010051-07 . . . . . *2-15*, *2-54*, *2-185*

1-654-010051-08 . . . . . *2-83*

1-654-010051-09 . . *2-15*, *2-149*, *2-158*, *2-165*, *2-173*

1-654-010051-10 2-138
1-654-010055-01 . . . . . 2-91, 2-181
1-654-010055-02 . . 2-44, 2-48, 2-115, 2-127, 2-166, 2-173, 2-178, 2-185
1-654-010055-03 . . . 2-27, 2-31, 2-91, 2-124, 2-125, 2-127, 2-149, 2-158, 2-165, 2-173, 2-177, 2-185
1-654-010055-04 . . . 2-27, 2-89, 2-97, 2-101, 2-118
1-654-010055-09 . . . . . 2-166, 2-173, 2-178, 2-181
1-654-010055-11 . . . . . 2-4, 2-13
1-654-010055-14 2-13
1-654-010055-15 2-181
1-654-010055-16 . . . . . 2-90, 2-93
1-654-010055-17 . . . . . 2-93, 2-106, 2-118
1-654-010055-18 2-181
1-654-010059-01 . . . . . 2-44, 2-48, 2-127
1-654-010059-03 . . . . . 2-138, 2-139, 2-141
1-654-010059-04 2-138
1-654-010059-05 . . . . . 2-106, 2-139, 2-141
1-654-010059-09 . . . . . 2-106, 2-113
1-654-010059-15 2-90
1-654-010059-21 2-119
1-654-010061-06 2-15
1-654-010061-07 2-106
1-654-010121-08 2-4
1-654-010141-04 . . . . . 2-44, 2-48, 2-90, 2-118
1-654-010147-06 2-4
1-654-010151-07 2-177
1-654-010158-02 2-51
1-654-010158-1 . . . . . 2-4, 2-51, 2-53
1-656-010003051 2-4, 2-27, 2-31, 2-59, 2-150, 2-158, 2-166, 2-175
1-656-010003053 2-91
165766 2-143
165768 2-131
166000 2-179
166001 2-179
166735 2-31
166766 . . . . . 2-150, 2-157, 2-166, 2-174
166924 2-179
167-0022 2-9
167691 2-21
168193 2-31
169365 2-24
169410 2-41
169531 . . . . . 2-157, 2-174
169532 . . . . . 2-150, 2-157, 2-166, 2-174
169832 2-193
169843 2-39
170109 . . . . . 2-150, 2-157, 2-166, 2-174
170110 . . . . . 2-150, 2-157, 2-166, 2-174
170111 . . . . . 2-150, 2-157, 2-166, 2-174
170112 . . . . . 2-150, 2-157, 2-166, 2-175
170114 2-175
172437 2-179
172903 2-121
173860 . . . . . 2-158, 2-174
173887 2-173
175591 2-175
1-765-010065 . . . . . 2-90, 2-106, 2-118
176681 2-121
178428 . . . . . 2-157, 2-175
178638 . . . . . 2-158, 2-175
178749 . . . . . 2-189, 2-193
178750 2-193
178751 2-193
178752 2-193
178753 2-193
179003 2-19
179090 . . . . . 2-158, 2-175
1-796-010003-02 . . . . . 2-16, 2-41, 2-129
1-796-010004-02 . . . . . 2-44, 2-57, 2-59, 2-189
179906 2-51
179933 . . . . . 2-71, 2-77
179955 . . . . . 2-71, 2-77
18002 . . . . . 2-97, 2-100
18009 2-96
18015 2-96

18016 . . . . . *2-96*

18019 . . . . . *2-96*

18020 . . . . . *2-96*

18022 . . . . . *2-100*

18024 . . . . . *2-97*

18026 . . . . . *2-96*

18027 . . . . . *2-96*

18028 . . . . . *2-97*

18029 . . . . . *2-97*

18030 . . . . . *2-96*

18032 . . . . . *2-96*

18033 . . . . . *2-100*

18034 . . . . . *2-100*

18035 . . . . . *2-99*

18039 . . . . . *2-96*

18044 . . . . . *2-97*

18047 . . . . . *2-96*, *2-100*

18056 . . . . . *2-97*

180584 . . . . . *2-121*

180585 . . . . . *2-121*

180586 . . . . . *2-121*

18077 . . . . . *2-96*

18078 . . . . . *2-96*

180839 . . . . . *2-193*

180840 . . . . . *2-193*

182086 . . . . . *2-193*

182089 . . . . . *2-39*

1-833-010001 *2-57*, *2-59*, *2-90*, *2-106*, *2-115*, *2-118*, *2-180*, *2-189*, *2-193*

1-833-010002 . . *2-57*, *2-59*, *2-83*, *2-87*, *2-177*, *2-182*

1-833-010003 . . . . . *2-83*

183413 . . . . . *2-193*

1-843-010014 . . . . . *2-79*

184393 . . . . . *2-179*

1-861-010032-01 . . . . . *2-91*, *2-106*, *2-118*

1-861-010032-02 . . . . . *2-175*

1-861-010032-03 . . . . . *2-4*

1-861-010032-06 . . . . *2-4*, *2-87*, *2-91*, *2-119*, *2-180*

1-861-010032-07 . *2-9*, *2-44*, *2-48*, *2-53*, *2-61*, *2-129*

1-861-010032-09 . . . . . *2-129*, *2-180*, *2-187*

1-861-010032-10 . *2-4*, *2-33*, *2-37*, *2-90*, *2-93*, *2-118*

1-861-010032-11 . . . . *2-7*, *2-54*, *2-83*, *2-127*, *2-138*, *2-149*, *2-158*, *2-165*, *2-173*, *2-177*, *2-185*

1-861-010032-14 . . . . . *2-91*, *2-118*, *2-127*, *2-177*

1-861-010032-15 . . . . *2-4*, *2-7*, *2-9*, *2-13*, *2-89*, *2-93*, *2-106*, *2-115*, *2-125*, *2-127*, *2-149*, *2-158*, *2-165*, *2-173*, *2-178*, *2-181*, *2-185*

1-861-010032-18 . . . . . *2-91*, *2-106*, *2-113*, *2-127*

1-861-010032-19 . . . . . *2-115*, *2-138*, *2-139*

1-861-010032-20 . . . . . *2-115*

1-861-010032-21 . . . . . *2-15*

1-861-010034-07 . . . . . *2-4*, *2-59*, *2-91*, *2-103*

1-861-010034-09 . . *2-53*, *2-91*, *2-115*, *2-119*, *2-129*, *2-149*, *2-158*, *2-165*, *2-173*

1-861-010034-10 . . . . . *2-71*, *2-77*

1-861-010034-11 . . . . . *2-4*, *2-33*, *2-37*

1-861-010034-13 *2-27*, *2-31*, *2-64*, *2-91*, *2-97*, *2-101*, *2-127*, *2-166*, *2-173*

1-861-010034-15 . . . . . *2-113*, *2-127*

1-861-010034-17 . . . . . *2-106*

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

186811 . . . . . *2-157*, *2-175*

189313 . . . . . *2-53*

189314 . . . . . *2-53*

189382 . . . . . *2-53*

190400004 . . . . . *2-22*

19045 . . . . . *2-96*, *2-100*

190700ZP *2-53*

190701 . . . . . *2-53*

190705ZP *2-53*

190706 . . . . . *2-53*

190728 . . . . . *2-185*

190729 . . . . . *2-185*

192038 . . . . . *2-185*

192744 . . . . . *2-150*, *2-159*, *2-166*, *2-175*

192745 . . . . . *2-150*, *2-159*, *2-167*

192746 . . . . . *2-150*, *2-159*, *2-167*, *2-175*

192991 . . . . . *2-150*, *2-158*, *2-166*, *2-175*
193904 . . . . . *2-158*, *2-175*
194159 . . . . . *2-193*
194882 . . . . . *2-138*
197586 . . . . . *2-53*
197606 . . . . . *2-71*, *2-77*
1V0249 . . . . . *2-141*
200300040 . . . . . *2-22*
20-12 140140 . . . . . *2-31*
2021-12-8S *2-15*
2021-2-4 . . . . . *2-44*, *2-49*
202225 . . . . . *2-157*, *2-174*
202226 . . . . . *2-157*, *2-175*
2024-12-12S . *2-27*, *2-31*, *2-149*, *2-158*, *2-165*, *2-173*
2024-12-8S *2-15*, *2-27*, *2-31*
2024-2-4S *2-45*, *2-49*
202702-10-8S *2-89*
202702-12-12S *2-25*, *2-149*, *2-158*
202702-20-20S . . *2-149*, *2-158*, *2-165*, *2-174*, *2-177*
202702-6-4S *2-127*
202702-8-6S *2-129*
202702-8-8S *2-106*
203003-8-8S *2-15*, *2-129*
203102-12-12S . . . *2-24*, *2-129*, *2-141*, *2-149*, *2-158*, *2-165*, *2-175*
203102-8-8S *2-141*
203248 . . . . . *2-51*
2033-8-8S *2-16*
204108-001 . . . . . *2-67*
2047-12-12S *2-27*, *2-31*
204955FI *2-51*
205107-001 . . . . . *2-67*
205812FI *2-51*
205912 . . . . . *2-185*
2061-8-8S *2-15*, *2-33*, *2-37*, *2-141*
206209-12-12S . . *2-141*, *2-149*, *2-158*, *2-165*, *2-175*
2062-10-12S *2-33*, *2-37*
2062-10-8S *2-91*
2062-12-12S *2-15*, *2-129*, *2-141*, *2-149*, *2-158*, *2-165*, *2-173*
2062-12-8S *2-129*
2062-16-8S *2-27*, *2-31*
2062-6-4S *2-127*
2062-8-8S *2-15*, *2-118*, *2-129*
2071-12-12S *2-177*
207360 . . . . . *2-143*
208106 . . . . . *2-67*
2081-8-6S *2-87*
2083-8-4S *2-57*, *2-59*, *2-182*
2088-6-6S *2-83*, *2-87*
2089-6-6S *2-83*
209133 . . . . . *2-24*
210292-12S *2-24*
212347 . . . . . *2-193*
212367 . . . . . *2-121*
212369 . . . . . *2-121*
212378 . . . . . *2-67*
212381 . . . . . *2-67*
212418 . . . . . *2-73*
212421 . . . . . *2-73*
214102 . . . . . *2-67*
214104 . . . . . *2-67*, *2-73*
216581 . . . . . *2-97*, *2-100*
218058 . . . . . *2-97*
2-181-010001 . . *2-16*, *2-41*, *2-44*, *2-49*, *2-90*, *2-127*
21925 . . . . . *2-96*
220000210 . . . . . *2-22*
220732 . . . . . *2-31*
220977 . . . . . *2-175*
221602 . . . . . *2-64*
2216-12-12S *2-25*
223219 . . . . . *2-175*
223220 . . . . . *2-27*, *2-31*, *2-150*, *2-158*, *2-166*, *2-175*
223938 . . . . . *2-79*
2240-12-12S *2-15*, *2-150*, *2-158*, *2-166*, *2-173*
224322 . . . . . *2-79*

2263 . . . . . *2-102*
2-272-010109 . . . . . *2-91*, *2-106*, *2-118*
22752 . . . . . *2-96*
230730 . . . . . *2-79*
23078 . . . . . *2-97*
23079 . . . . . *2-97*
23081 . . . . . *2-97*
23082 . . . . . *2-101*
23083 . . . . . *2-97*
23144 . . . . . *2-101*
23145 . . . . . *2-101*
232809 . . . . . *2-79*
23303 . . . . . *2-96*
23367 . . . . . *2-99*
234683 . . . . . *2-7*
234688 . . . . . *2-7*
23470 . . . . . *2-96*
236297 . . . . . *2-185*
237-2308-004 . . . . . *2-51*
238634 . . . . . *2-25*
238642 . . . . . *2-24*
238806 . . . . . *2-61*
239-3646-4 . . . . . *2-187*
239-3646-5 . . . . . *2-41*
239677 . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-173*
239678 . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-173*
239679 . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-165*, *2-174*
239680 . . *2-15*, *2-24*, *2-25*, *2-27*, *2-31*, *2-166*, *2-174*
239705 . . . . . *2-25*
239-8852-009 . . . . . *2-177*
239-9076-3 . . . . . *2-91*
240000208 . . . . . *2-39*
240507 . . . . . *2-31*
245963 . . . . . *2-53*
245965 . . . . . *2-53*
245968 . . . . . *2-53*
245969 . . . . . *2-53*
247863 . . . . . *2-103*
247864 . . . . . *2-103*
247865 . . . . . *2-103*
247943 . . . . . *2-97*
2481X *2-149*, *2-158*, *2-166*, *2-175*
248309 . . . . . *2-100*
248354 . . . . . *2-99*
248355 . . . . . *2-99*
248356 . . . . . *2-99*
248357 . . . . . *2-100*
248358 . . . . . *2-96*, *2-100*
248359 . . . . . *2-100*
248360 . . . . . *2-100*
248361 . . . . . *2-100*
248363 . . . . . *2-100*
248364 . . . . . *2-100*
248501 . . . . . *2-100*
248502 . . . . . *2-100*
248503 . . . . . *2-100*
248504 . . . . . *2-100*
248505 . . . . . *2-100*
248506 . . . . . *2-97*, *2-100*
248507 . . . . . *2-97*, *2-100*
248508 . . . . . *2-100*
248509 . . . . . *2-100*
248510 . . . . . *2-100*
248511 . . . . . *2-97*, *2-100*
248512 . . . . . *2-100*
248513 . . . . . *2-101*
248514 . . . . . *2-101*
248516 . . . . . *2-101*
248594 . . . . . *2-96*
248595 . . . . . *2-96*
248596 . . . . . *2-96*
248597 . . . . . *2-96*
248598 . . . . . *2-97*
248599 . . . . . *2-97*
248600 . . . . . *2-97*
248601 . . . . . *2-97*

249134 . . . . . *2-53*
249139 . . . . . *2-53*
249141 . . . . . *2-53*
249142 . . . . . *2-53*
249147 . . . . . *2-53*
249506 . . . . . *2-97*
249507 . . . . . *2-97*
249508 . . . . . *2-97*
249509 . . . . . *2-97*
249510 . . . . . *2-96*
251219 . . . . . *2-85*
254541 . . . . . *2-51*
2-573-010335 . . . . . *2-137*
25E10E *2-103*
26331 . . . . . *2-41*, *2-177*
26976 . . . . . *2-99*
2-720-010002 . . . . . *2-4*
3/4-10X9-1/2CS8 . . . . . *2-15*
3/8P COUPL *2-166*, *2-173*
30092 . . . . . *2-131*
3-014-010255 . . . . . *2-91*
3067 . . . . . *2-71*, *2-77*
3-076-010015 . . . . . *2-45*, *2-49*
3-117-010074 . . . . . *2-7*
3-117-010075 . . . . . *2-7*
3-120-010124 . . . . . *2-149*, *2-158*, *2-166*, *2-173*
3-120-010351 . . . . . *2-127*
3-120-010425 . . . . . *2-15*
3-120-010426 . . . . . *2-180*
3-120-010445 . . . . . *2-90*, *2-106*, *2-118*
3-120-010461 . . . . . *2-27*
3-125-010222 . . . . . *2-9*, *2-13*
3-125-010464 . . . . . *2-90*
3-125-010465 . . . . . *2-90*
3-125-010482 . . . . . *2-9*
3-125-010501 . . . . . *2-9*
3-128-010025 . . . . . *2-182*
3-136-010001-01 . . . . . *2-91*, *2-106*, *2-118*
3-141-010008 . . . . . *2-7*
3-141-010119 . . . . . *2-7*
3-141-010123-2 . . . . . *2-7*
3-141-010123-4 . . . . . *2-7*
3-141-010147 . . . . . *2-7*
3-141-010149 . . . . . *2-7*
3-141-010150-1 . . . . . *2-7*
3-141-010150-2 . . . . . *2-7*
3-150-010005 . . . . . *2-119*
3-150-010186 . . . . . *2-90*
3-150-010196 . . . . . *2-90*
3-153-010016-02 . . . . . *2-106*
3-155-010012 . . . . . *2-149*, *2-158*
3-155-010017-4 . . . . . *2-90*, *2-93*, *2-118*
3-155-010018-6 . . . . . *2-90*, *2-93*, *2-118*
3-156-010008 . . . . . *2-129*
3-156-010043 . . . . . *2-129*
3-162-010001 *2-27*, *2-31*, *2-149*, *2-158*, *2-166*, *2-173*
3-174-010038 . . . . . *2-90*, *2-118*
3-174-010039036 . . . . . *2-90*, *2-118*
3-174-010059 . . . . . *2-106*
3-174-010060036 . . . . . *2-106*
3-181-010006 . . . . . *2-16*, *2-173*
3-181-010034-1 . . . . . *2-64*
3-181-010034-2 . . . . . *2-64*
3-182-010028 . . . . . *2-149*, *2-158*, *2-166*, *2-173*
3-187-010001 . . . . . *2-9*
3-187-010013 . . . . . *2-45*, *2-49*
3-201-010001036 . . . . . *2-118*
3-201-010002 . . . . . *2-4*, *2-129*
3-222-010211 . . . . . *2-125*
3-222-010212 . . . . . *2-125*
3-242-010189 . . . . . *2-15*, *2-21*
3-242-010194 . . . . . *2-4*
3-242-010205 . . . . . *2-127*, *2-131*
3-242-010211 . . . . . *2-15*, *2-19*
3-242-010212 . . . . . *2-15*
3-256-010003-02 . . . . . *2-45*, *2-127*

3-256-010003-08 . . . . . *2-49*, *2-127*
3-257-010038 . . . . . *2-4*
3-257-010043 . . . . . *2-4*
3-272-010017 . . . . . *2-41*, *2-187*
3-272-010018 . . . . . *2-91*, *2-106*, *2-118*
3-272-010021 . . . . . *2-9*, *2-13*, *2-129*, *2-187*
3-272-010023 . . . . . *2-129*
3-272-010062 . . . . . *2-129*
3-276-010698 . . . . . *2-9*
3-276-010699 . . . . . *2-9*
3-276-010737 . . . . . *2-13*
3-276-010738 . . . . . *2-13*
3-276-010739 . . . . . *2-13*
3-276-010740 . . . . . *2-13*
3-276-010741 . . . . . *2-13*
3-276-010742 . . . . . *2-13*
3-276-010743-01 . . . . . *2-13*
3-276-010743-03 . . . . . *2-13*
3-276-010744 . . . . . *2-13*
3-276-010745 . . . . . *2-13*
3-276-010746 . . . . . *2-13*
3-276-010747 . . . . . *2-13*
3-311-010164 . . . . . *2-4*
3-316-010008 . . . . . *2-149*, *2-158*, *2-166*, *2-173*
3-348-010048 . . . . . *2-91*, *2-106*, *2-118*
3-360-010072 . . . . . *2-33*, *2-37*
3-360-010090 . . . . . *2-33*, *2-37*
3-368-010125 . . . . . *2-118*
3-368-010129 . . . . . *2-90*, *2-106*
3-368-010187 . . . . . *2-90*, *2-106*, *2-118*
3-368-010188 . . . . . *2-91*, *2-118*
3-368-010253 . . . . . *2-41*, *2-187*
3-368-010254 . . . . . *2-177*
3-375-010554 . . . . . *2-4*
3-395-010001 . . . . . *2-16*
3-399-010001 . . . . . *2-27*, *2-31*, *2-177*
3-399-010001006 . . . . . *2-149*, *2-158*, *2-166*, *2-175*
3-410-011335 . . . . . *2-180*
3-443-010010 . . . . . *2-4*
3-443-010018 . . . . . *2-166*, *2-173*
346SL *2-139*, *2-141*
3-481-010006 . . . . . *2-89*, *2-93*, *2-97*, *2-102*
3-481-010007 . . . . . *2-89*, *2-93*, *2-101*, *2-102*
3-482-010249 . . . . . *2-7*
3-482-010307 . . . . . *2-4*
3-482-010472 . . . . . *2-127*
3-482-010503 . . . . . *2-27*
3-482-010563 . . . . . *2-15*, *2-33*, *2-37*
3-485-010001 . . . . . *2-54*
3-522-010017 . . . . . *2-91*
3-547-010011 . . . . . *2-5*
3-557-010120 . . . . . *2-15*
3-557-010222 . . . . . *2-15*
3-557-010375 . . . . . *2-9*, *2-13*
3-557-010380 . . . . . *2-7*
3-557-010466-01 . . . . . *2-45*, *2-49*
3-557-010469 . . . . . *2-4*
3-557-010470-01 . . . . . *2-15*
3-557-010470-02 . . . . . *2-15*
3-557-010471-01 . . . . . *2-4*
3-557-010474 . . . . . *2-90*
3-561-010001 . . . . . *2-27*, *2-31*
3-565-011218 . . . . . *2-45*, *2-49*
3-565-011688 . . . . . *2-91*
3-573-010031 . . . . . *2-51*, *2-137*
3-573-010040 . . . . . *2-137*
3-573-010041 . . . . . *2-137*
3-573-010042 . . . . . *2-137*
3-573-010043 . . . . . *2-137*
3-573-010044 . . . . . *2-137*
3-573-010045 . . . . . *2-137*
3-573-010046 . . . . . *2-137*
3-573-010047 . . . . . *2-137*
3-573-010048 . . . . . *2-137*
3-573-010049 . . . . . *2-137*
3-573-010189 . . . . . *2-137*

3-573-010191 . . . . . *2-137*
3-573-010202 . . . . . *2-129*, *2-137*
3-573-010210 . . . . . *2-137*
3-573-010297 . . . . . *2-137*
3-573-010349 . . . . . *2-137*
3-573-010350 . . . . . *2-137*
3-573-010377 . . . . . *2-13*, *2-51*, *2-137*
3-573-010378 . . . . . *2-7*
3-573-010506 . . . . . *2-159*, *2-166*, *2-173*
3-591-010001 . . . . . *2-27*, *2-31*
3-612-010015-1 . . . . . *2-181*
3-612-010015-2 . . . . . *2-181*
3-612-010016 . . . . . *2-181*
3-626-010004 . . . . . *2-90*, *2-106*, *2-118*
3-642-010006 . . . . . *2-4*
3-642-010134 . . . . . *2-4*
3-642-010150 . . . . . *2-90*
3-645-010059 . . . . . *2-4*
3-645-010084 . . . . . *2-45*, *2-49*
3-659-010012 . . . . . *2-71*, *2-77*
3-681-010098 . . . . . *2-127*
3-684-010050 . . . . . *2-4*
3-711-010105 . . . . . *2-4*
3-711-010120 . . . . . *2-119*
3-720-010010 . . . . . *2-90*, *2-93*, *2-106*, *2-118*
3-720-010024 . . . . . *2-9*
3-720-010035 . . . . . *2-91*
3-720-010042 . . . . . *2-90*, *2-118*
3-725-010058 . . . . . *2-139*
3-755-010080 . . . . . *2-7*
3-755-010189 . . . . . *2-53*
3-755-010189-1 . . . . . *2-53*
3-755-010201 . . . . . *2-7*
3-755-010202 . . . . . *2-7*
3-755-010206 . . . . . *2-7*
3-755-010207 . . . . . *2-7*
3-762-010017 . . . . . *2-54*
3-762-010612 . . . . . *2-180*
3-780-010002 . . . . . *2-57*, *2-59*, *2-83*
3-786-010043 . . . . . *2-27*
3-793-010040 . . . . . *2-124*
3-793-010041 . . . . . *2-124*
3-821-010005 . . . . . *2-53*
3-829-010337 . . . . . *2-181*
3-831-010151 . . . . . *2-90*
3-831-010172 . . . . . *2-90*
3-831-010182 . . . . . *2-90*
3-843-010022 . . . . . *2-90*, *2-106*, *2-118*
3-843-010038 . . . . . *2-87*
3-843-010039-02 . . . . . *2-106*
3-846-010056 . . . . . *2-127*, *2-133*
3-846-010155 . . . . . *2-15*
3-861-010038 . . . . . *2-15*
3-870-010097 . . . . . *2-79*
3-870-010104 . . . . . *2-79*
3-870-010106 . . . . . *2-79*
3-870-010107 . . . . . *2-77*
3-870-010110 . . . . . *2-79*
3-870-010116 . . . . . *2-79*
3-873-010122 . . . . . *2-89*, *2-93*, *2-96*
3-873-010123 . . . . . *2-89*, *2-93*, *2-99*
3-873-010124 . . . . . *2-90*, *2-93*
3-873-010126-2 . . . . . *2-93*, *2-96*
3-873-010129-2 . . . . . *2-93*, *2-99*
3-873-010140 . . . . . *2-89*
3-873-010144 . . . . . *2-89*
3-873-010145 . . . . . *2-90*
3-873-010170 . . . . . *2-106*
3-873-010172 . . . . . *2-106*, *2-115*
3-873-010173 . . . . . *2-106*, *2-109*
3F843-010034 . . . . . *2-59*, *2-61*
4009 . . . . . *2-71*, *2-77*
4010520 . . . . . *2-133*
4010530 . . . . . *2-133*
403149 . . . . . *2-67*
405129 . . . . . *2-67*, *2-73*

405999-001 . . . . . 2-67, 2-73
408101-001 . . . . . 2-67, 2-73
481-00-225 2-61
514-9045-26 . . . . . 2-150, 2-158, 2-166, 2-173
514-9073-18 . . . . . 2-150, 2-158, 2-166, 2-173
516-22PTL 2-13
5210 2-4
55B61 . . . . . 2-24, 2-83, 2-87
55B61-6 . . . . . 2-24, 2-87
55B61-7 . . . . . 2-24, 2-87
56D4 2-83
61333 2-97
61344 2-101
622-3511-008 2-51
63680 2-71
6405000 2-133
660580002 . . . . . 2-35, 2-39
660580003 . . . . . 2-35, 2-39
660580004 . . . . . 2-35, 2-39
660580005 . . . . . 2-35, 2-39
660585006 2-39
670500045 2-39
671400033 2-39
671400040 2-39
671900011 2-39
6828 . . . . . 2-28, 2-31
750-029 . . . . . 2-91, 2-119, 2-187
758-181 2-83
7HCGHT500 . . . . . 2-90, 2-118
805-2 2-83
81006 2-96
81009 2-96
81025 2-96
81077 2-99
81078 2-99
81080 2-100
81081 2-100
81264 2-129
81530 2-96
85G816E 2-175
86G1008E 2-103
88005 2-100
900 45 040 2-64
900 54 007 . . . . . 2-57, 2-61
900-08-139 2-64
900-44-626 2-15
900-54-079 2-59
900598-12S 2-149, 2-158, 2-165, 2-175, 2-177
905-54-107 . . . 2-57, 2-59, 2-61, 2-91, 2-106, 2-118, 2-182
905-57-129 2-64
934 00 149 2-64
934-00-492 2-64
936 00 077 2-64
9-557-010360 2-7

A

A10037.3 2-143
A10038.7 2-143
A6760S 2-182
AA-1807 2-113

B

B3-115-027 2-13
B7-141-003 2-7
B7-542-007 2-9
B7-542-009 2-9
B7-542-012 2-9
BSL-6-4 2-4

C

C10256 2-143
C3069X12 . . . . . 2-28, 2-31
CO-975-74-2000 . . . . . 2-9, 2-13

F

F-100852 . . . . . *2-91*

H

HM212011 . . . . . *2-71*, *2-77*
HM212049 . . . . . *2-71*, *2-77*
HM218210 . . . . . *2-71*, *2-77*
HM218248 . . . . . *2-71*, *2-77*

K

K71-101-00 . . . . . *2-67*
K71-136-00 . . . . . *2-73*
K71-460-00 . . . . . *2-67*

P

PMCK-22000 . . . . . *2-21*
PMCK-AS-715 . . . . . *2-19*

R

RPRB59004X3H *2-185*
RTR7999X4ZP *2-91*

S

STP-147 . . . . . *2-41*, *2-187*
STP-164 . . . . . *2-41*, *2-187*

W

W214S-1 . . . . . *2-9*, *2-13*, *2-187*, *2-189*

Equipment from Landoll Company, LLC is built to exacting standards ensured by ISO 9001:2015 registration at all Landoll manufacturing facilities.

Model 600C Semitrailer

Parts Manual

Re-Order Part Number F-478

LANDOLL COMPANY, LLC.
1900 North Street
Marysville, Kansas 66508
(785) 562-5381
800-428-5655 ~ WWW.LANDOLL.COM

Copyright 2025. Landoll Company, LLC.
"All rights reserved, including the right to reproduce this material or portions thereof in any form"