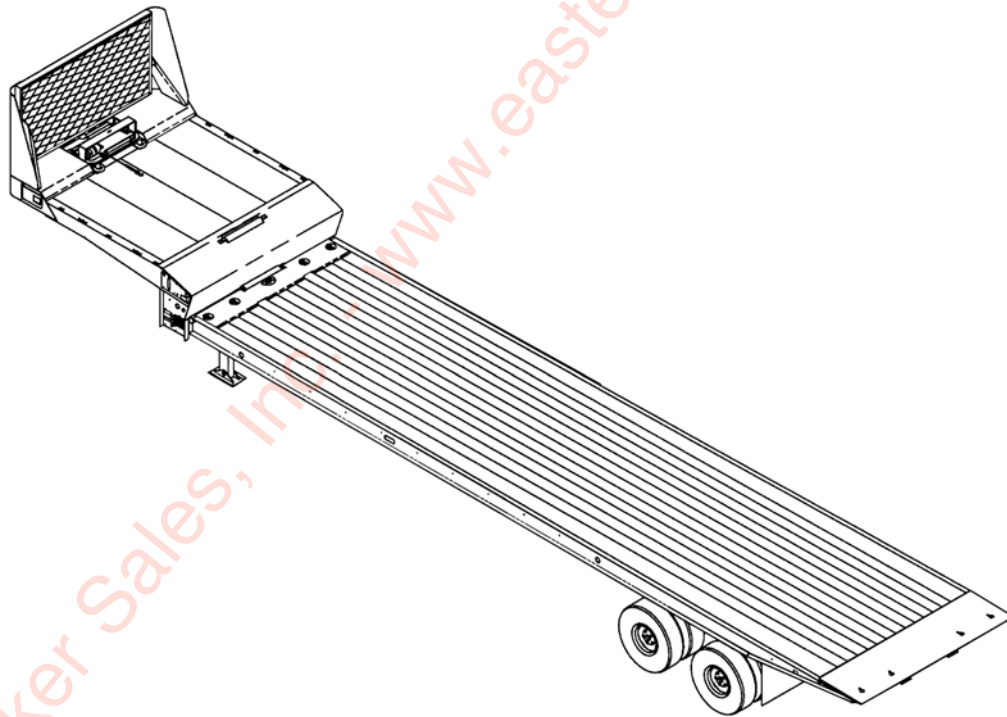




Model 600C Semitrailer Parts Manual



LANDOLL CORPORATION

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Eastern Wrecker Sales, Inc. - www.easternwrecker.com - 919-553-4038

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Instructions for Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

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

PHONE NO.: 1-800-423-4320 OR 1-800-428-5655 OR 1-785-562-5381

FAX NO.: 888-527-3909

ORDER ONLINE: companystore.landoll.com

IDENTIFICATION PLATE

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

SERIAL NUMBER NOMENCLATURE

The serial number for the 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.

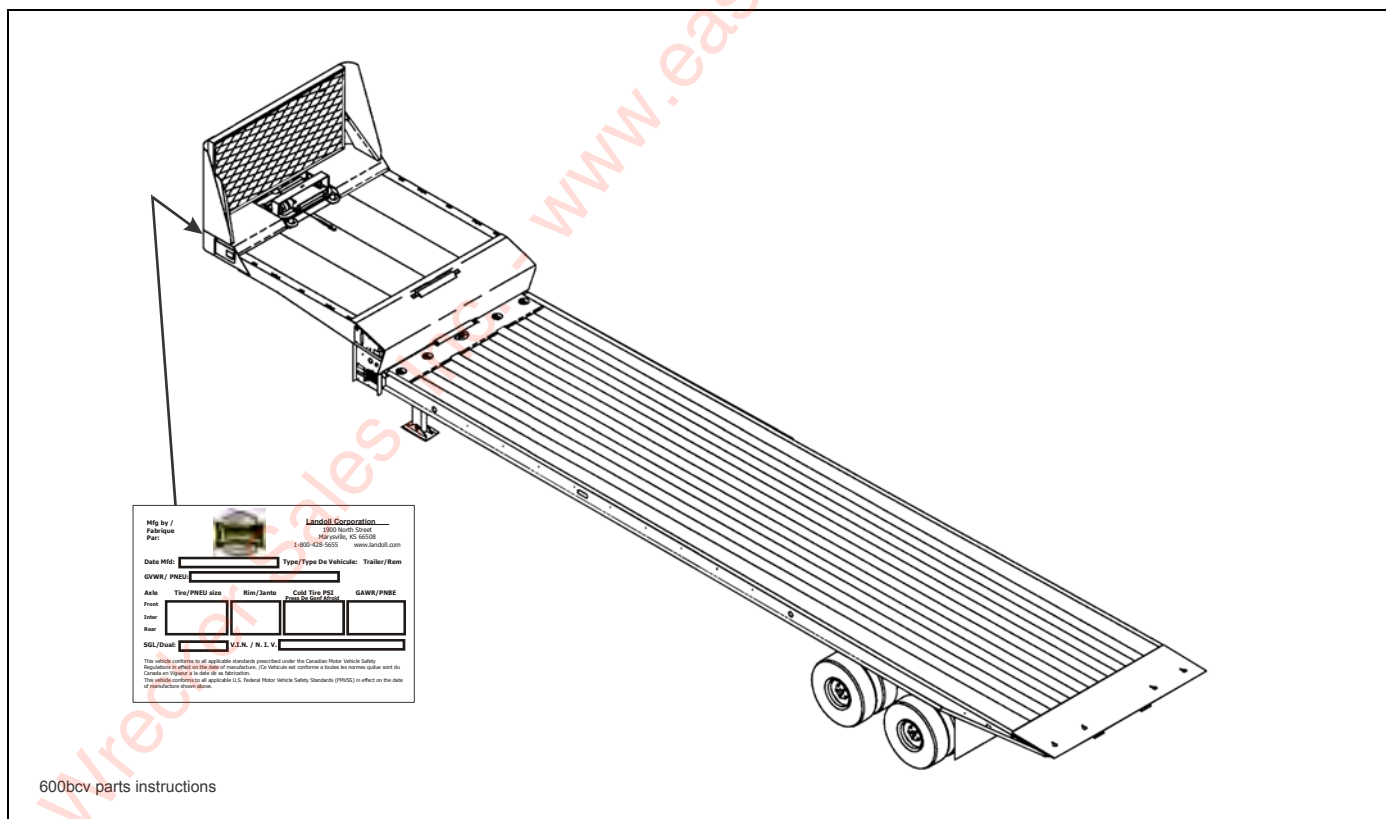


Figure 1-1: Identification Plate and Location

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Illustrated Parts List

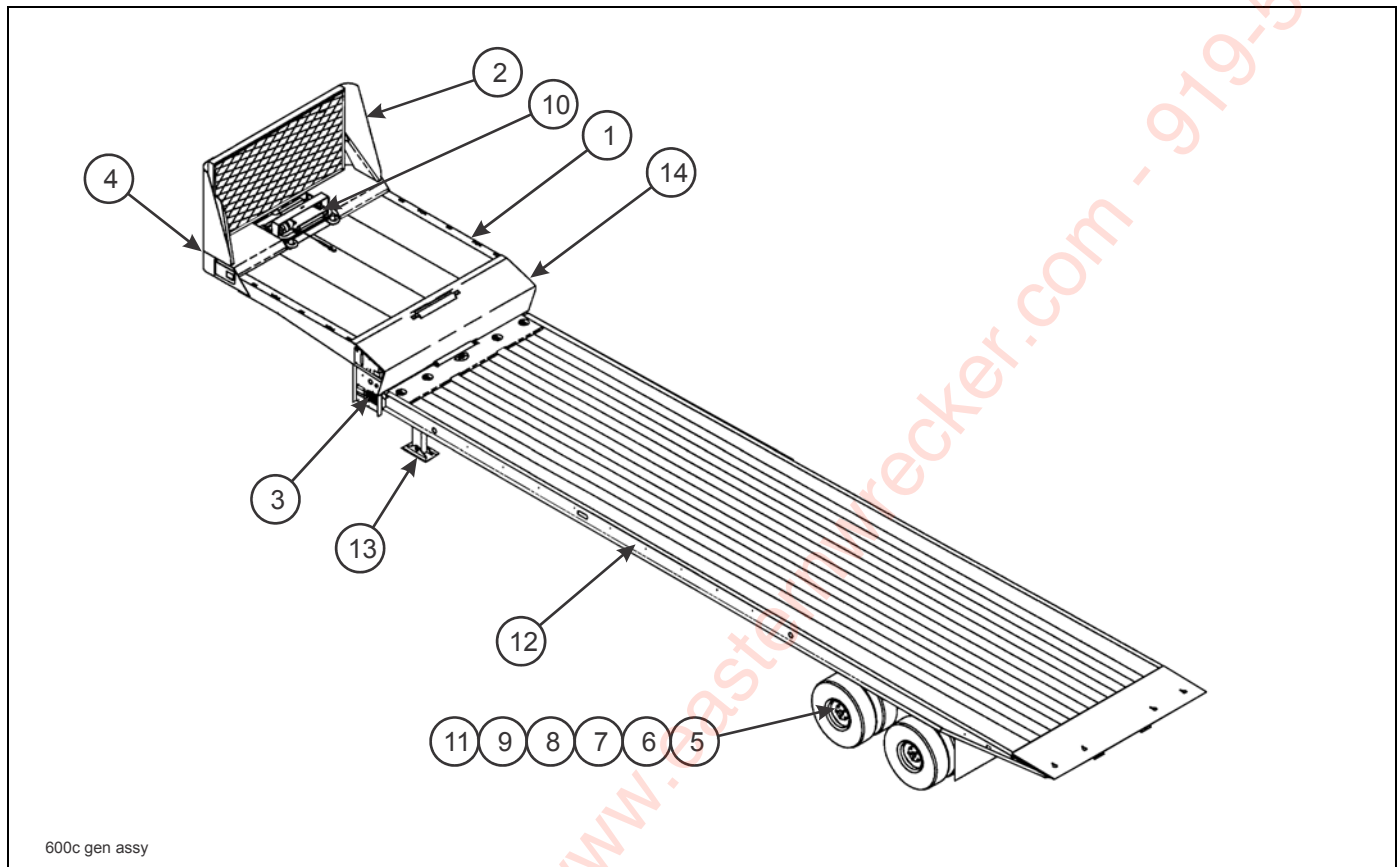
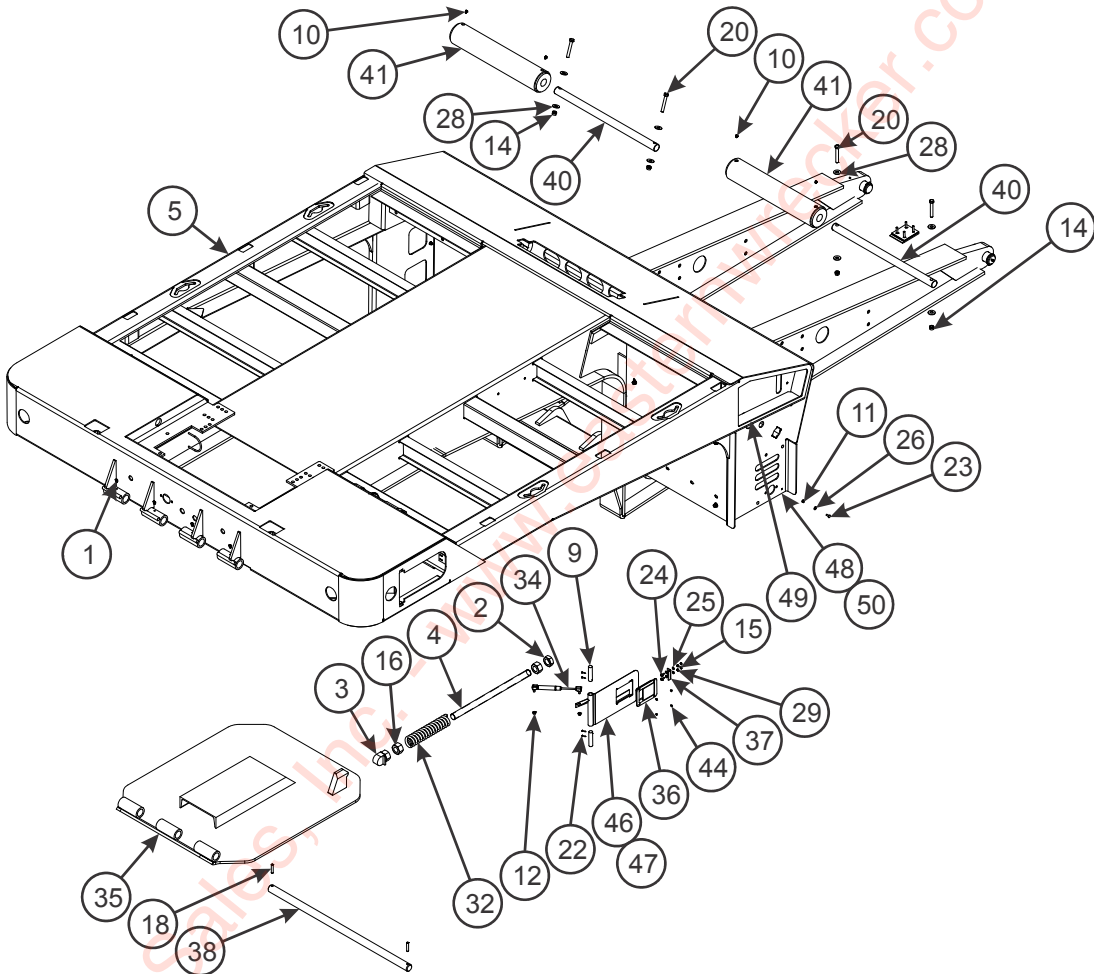


Figure 2-1: General Assembly

GENERAL ASSEMBLY

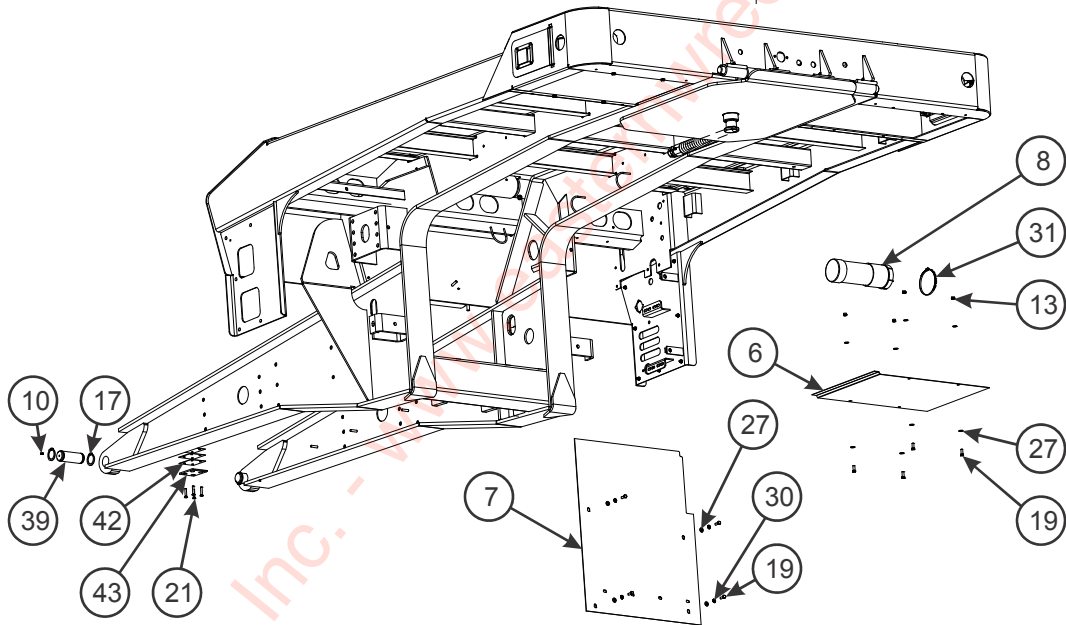
ITEM	PAGE NO.	DESCRIPTION	QTY.
1	2-2 - 2-4	UPPER DECK ASSEMBLY	1
2	2-6 - 2-13	BULKHEAD/OUTRIGGER/EXTENSION/PULL OUT ASSEMBLIES (OPTION)	1
3	2-14 - 2-29	HYDRAULIC ASSEMBLIES	1
4	2-30 - 2-31	ELECTRICAL SYSTEM	1
5	2-32 - 2-48	UNDERCARRIAGE AND SUSPENSION - AIR RIDE	1
6	2-49 - 2-51	AXLE AND BRAKE ASSEMBLIES	2
7	2-53 - 2-54	HUB AND DRUM ASSEMBLY	1
8	2-55 - 2-60	AIR BRAKE SYSTEM	1
9	2-61 - 2-62	AIR SYSTEM	4
10	2-63 - 2-98	WINCH ASSEMBLIES	1
11	2-99 - 2-108	DOCK LEVELER ASSEMBLIES (OPTION)	1
12	2-109 - 2-112	DECAL INSTALLATION	1
13	2-113 - 2-120	LANDING GEAR ASSEMBLIES (OPTION)	2
14	2-121 - 2-133	ENGINE DRIVE ASSEMBLY (OPTION)	1
15	2-134 - 2-142	MISCELLANEOUS OPTIONS (NOT SHOWN)	1





m113519 p1

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



m113519 p2

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	2
41*	3-645-010059	ROLLER WELDMENT, CABLE-UPPER DECK	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 (INCL 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

* ONE ROLLER ASSEMBLY IS LOCATED ON THE FRONT OF THE LOWER DECK.

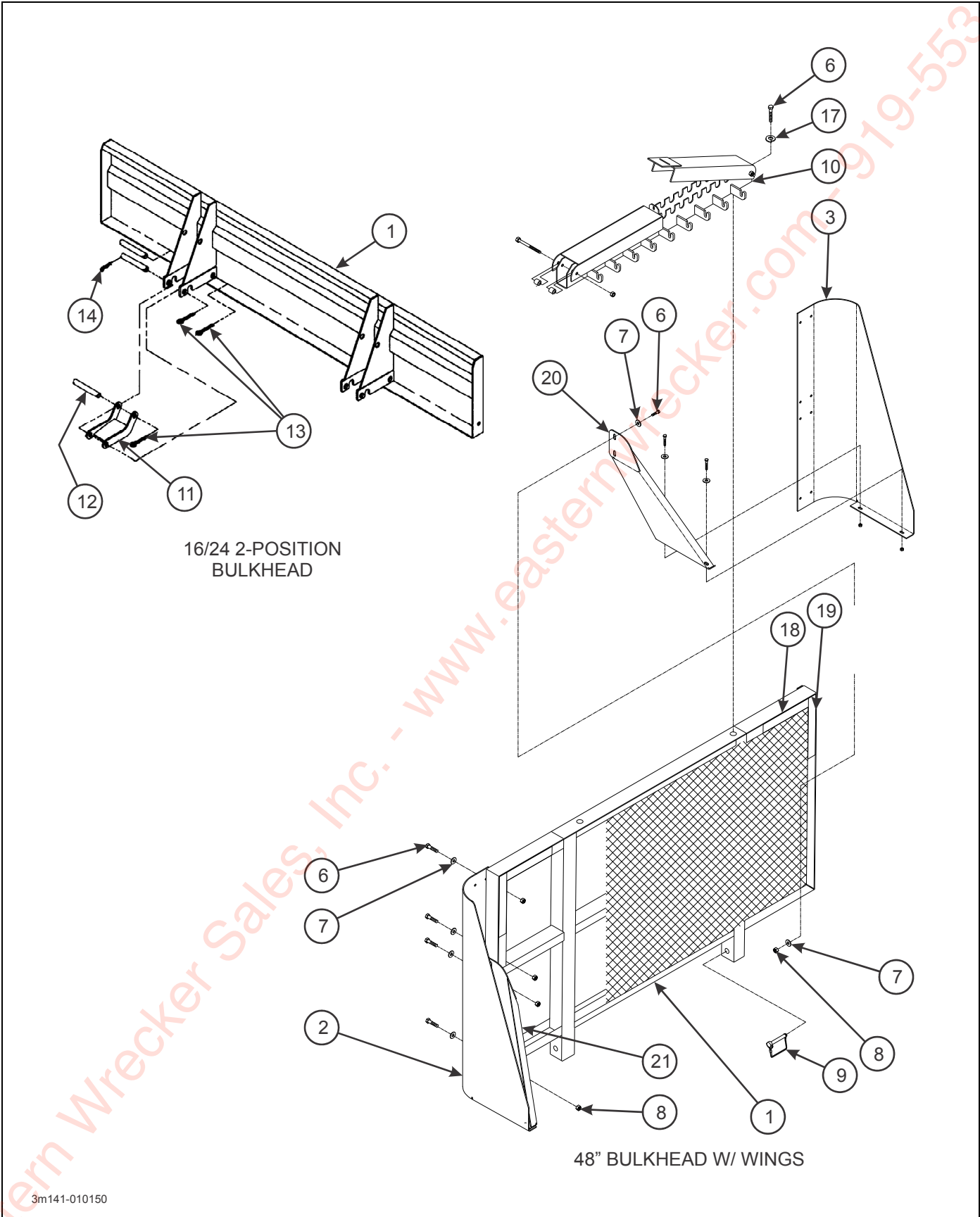
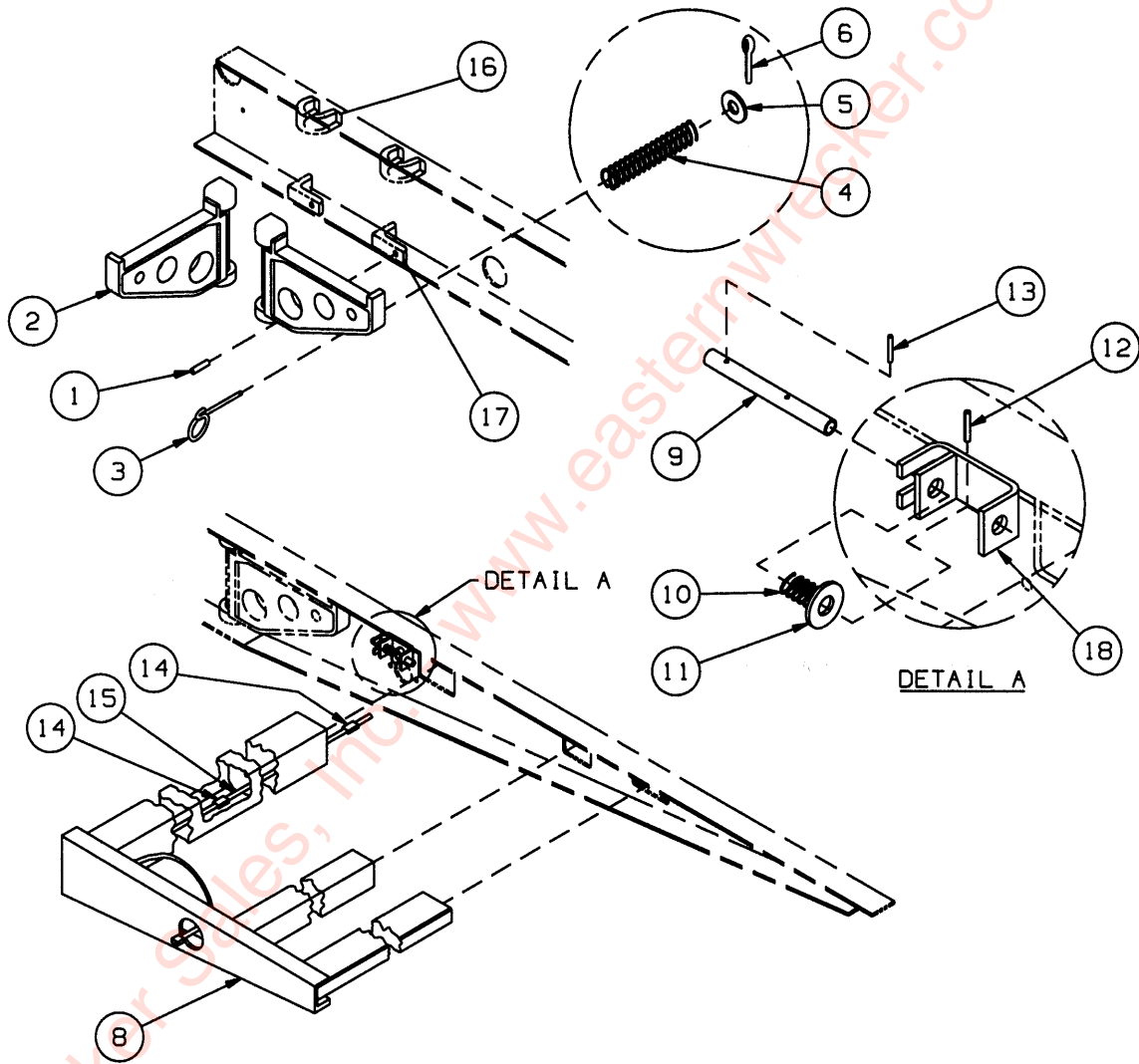


Figure 2-4: Bulkhead Assembly

BULKHEAD ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-141-010150-1	BULKHEAD INSTALLATION 48" HIGH W/ STEEL WINGS	
	3-141-010150-2	BULKHEAD INSTALLATION 48" HIGH W/ ALUM WINGS	
	145357	BULKHEAD INSTALLATION 48" SOLID 102"	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION (ITEMS 6-7, 17-18)	
	3-141-010123-2	16/24 POSITION BULKHEAD INSTALLATION	
	3-141-010123-4	16 POSITION BULKHEADINSTALLATION	
1	3-141-010149	BULKHEAD WELDMENT 48 X 96	1
	3-141-010147	BULKHEAD WELDMENT 16/24 X 102	1
	3-141-010119	BULKHEAD WELDMENT 16 X 102	1
	145356	BULKHEAD WELDMENT 48 X 96 SOLID	1
2	3-755-010207	SUPPORT, BULKHEAD STD LH (STEEL)	1
	3-755-010201	SUPPORT, BULKHEAD LH (ALUMINUM)	1
3	3-755-010206	SUPPORT, BULKHEAD STD RH (STEEL)	1
	3-755-010202	SUPPORT, BULKHEAD RH (ALUMINUM)	1
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	16
7	1-861-010032-11	WASHER, FLAT 3/8	20
8	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	16
9	9-557-010360	PIN, SNAP LOCK 1/2X3-1/2	2
10	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	1
11	3-755-010080	SUPPORT WELDMENT, BULKHEAD	2
12	3-557-010380	PIN	6
13	1-557-010362-63	COTTER PIN 1/4 X 2	10
14	1-557-010014	PIN, HAIR 1/4	2
17	1-861-010034-11	WASHER, SPLIT LOCK 3/8	2
18	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE	2
19	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE	2
20	3-117-010074	BRACE BULKHEAD RH	1
21	3-117-010075	BRACE BULKHEAD LH	1



3mb410-011295

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

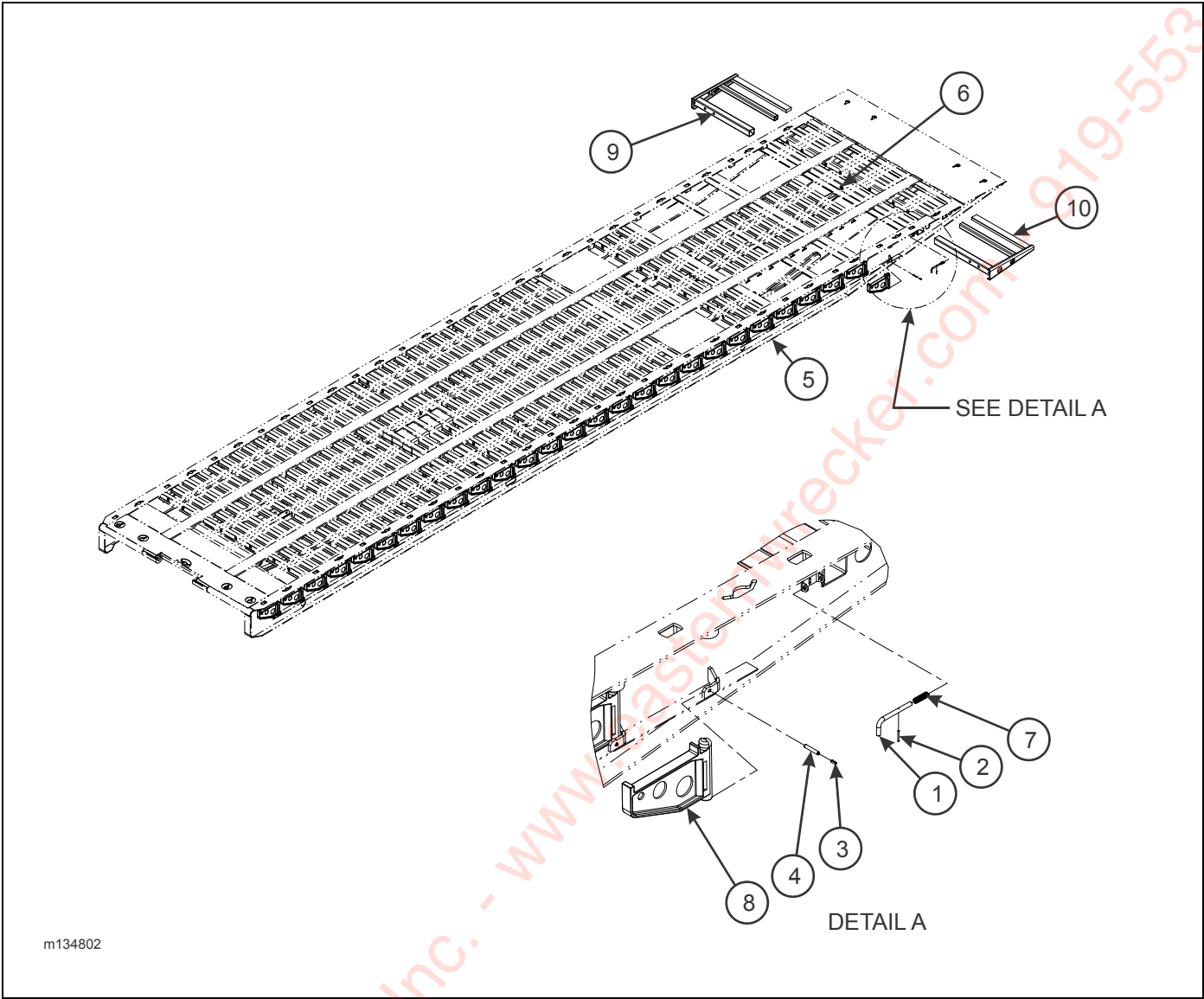


Figure 2-6: Outrigger Installation

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

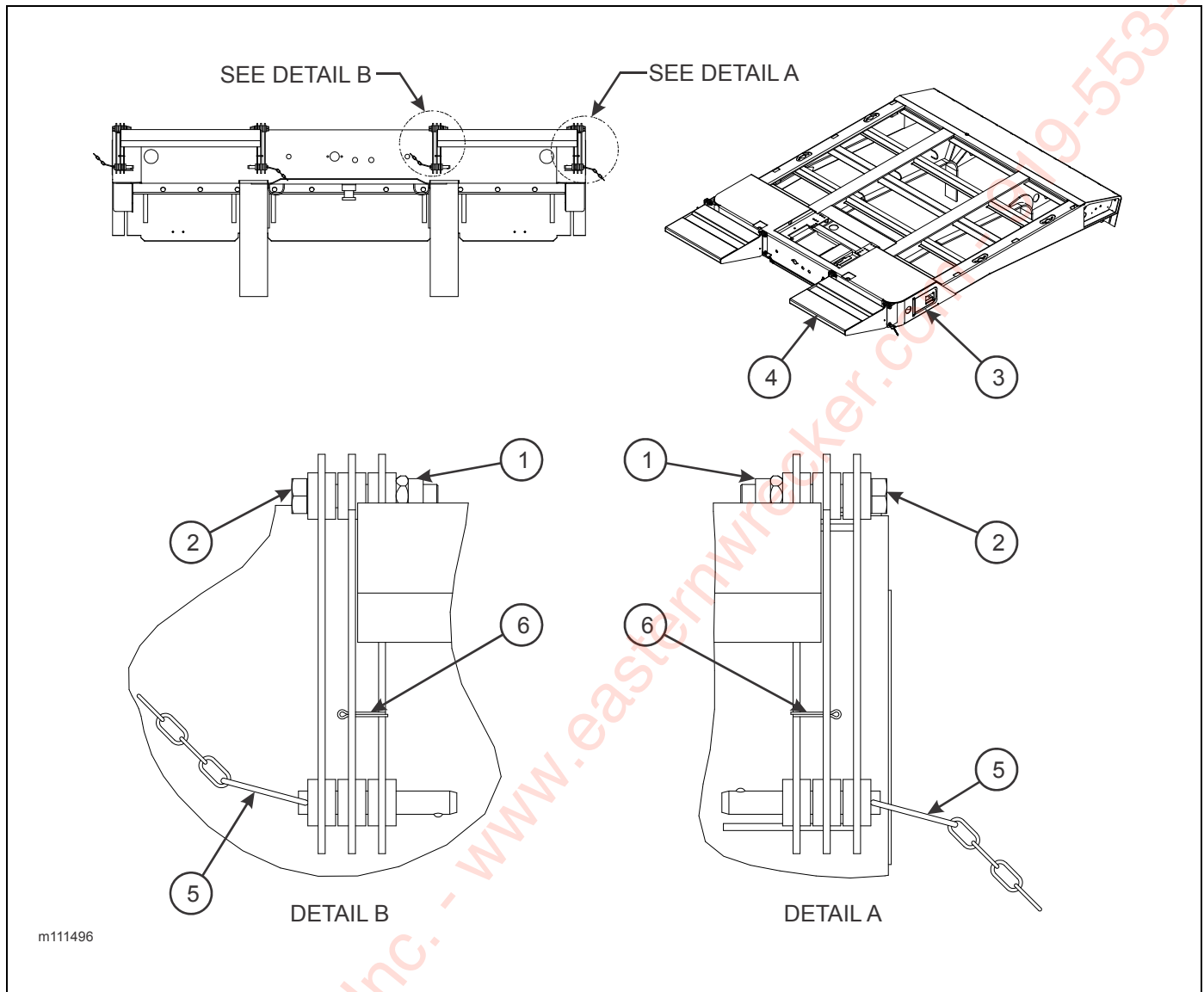
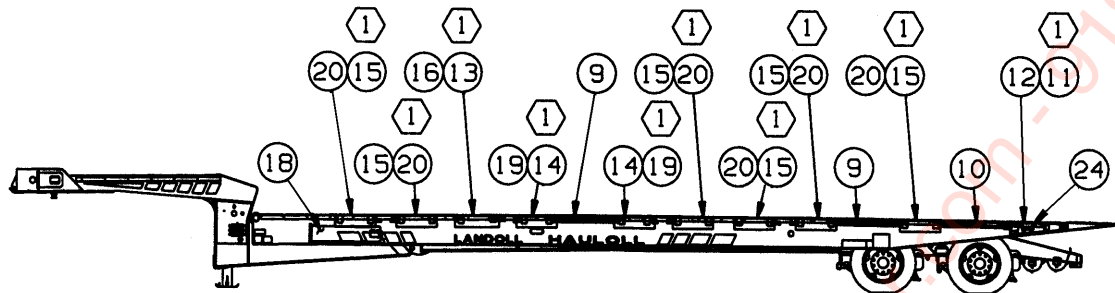


Figure 2-7: Extension Track Assembly

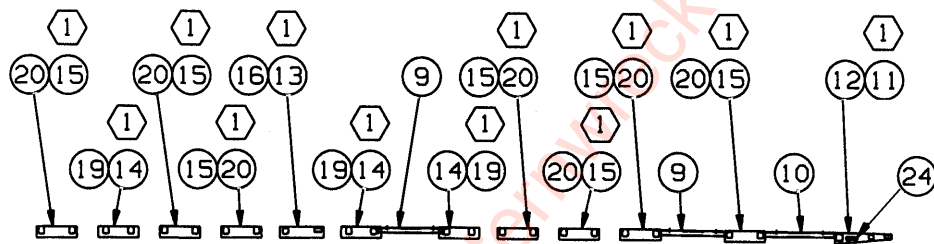
EXTENSION TRACK ASSEMBLY

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

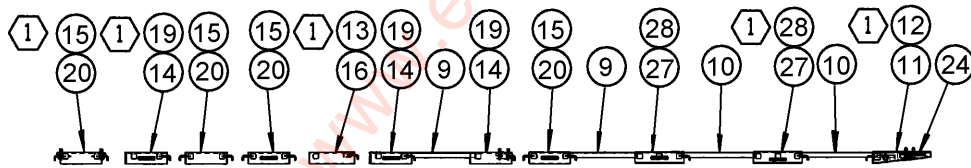
① PART TO BE INSTALLED ON THE OTHER SIDE OF TRAILER.



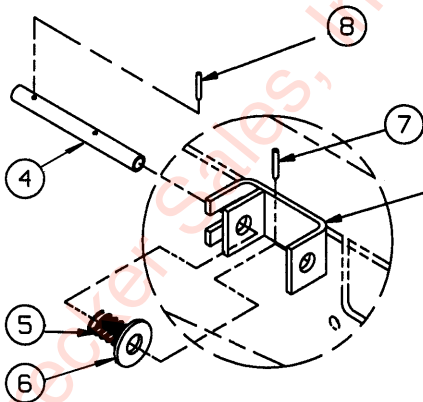
660 - 48'



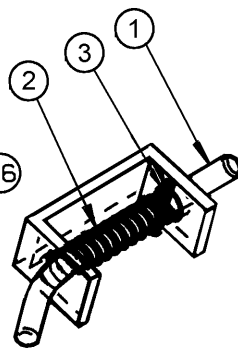
660 - 53'



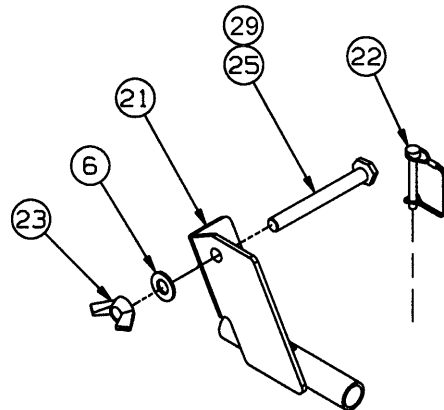
610 - 53'



BRACKET DETAIL
(TANDEM)



BRACKET DETAIL
(TRIPLE)



FLAG HOLDER ASSEMBLY

3mb276-010743

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.

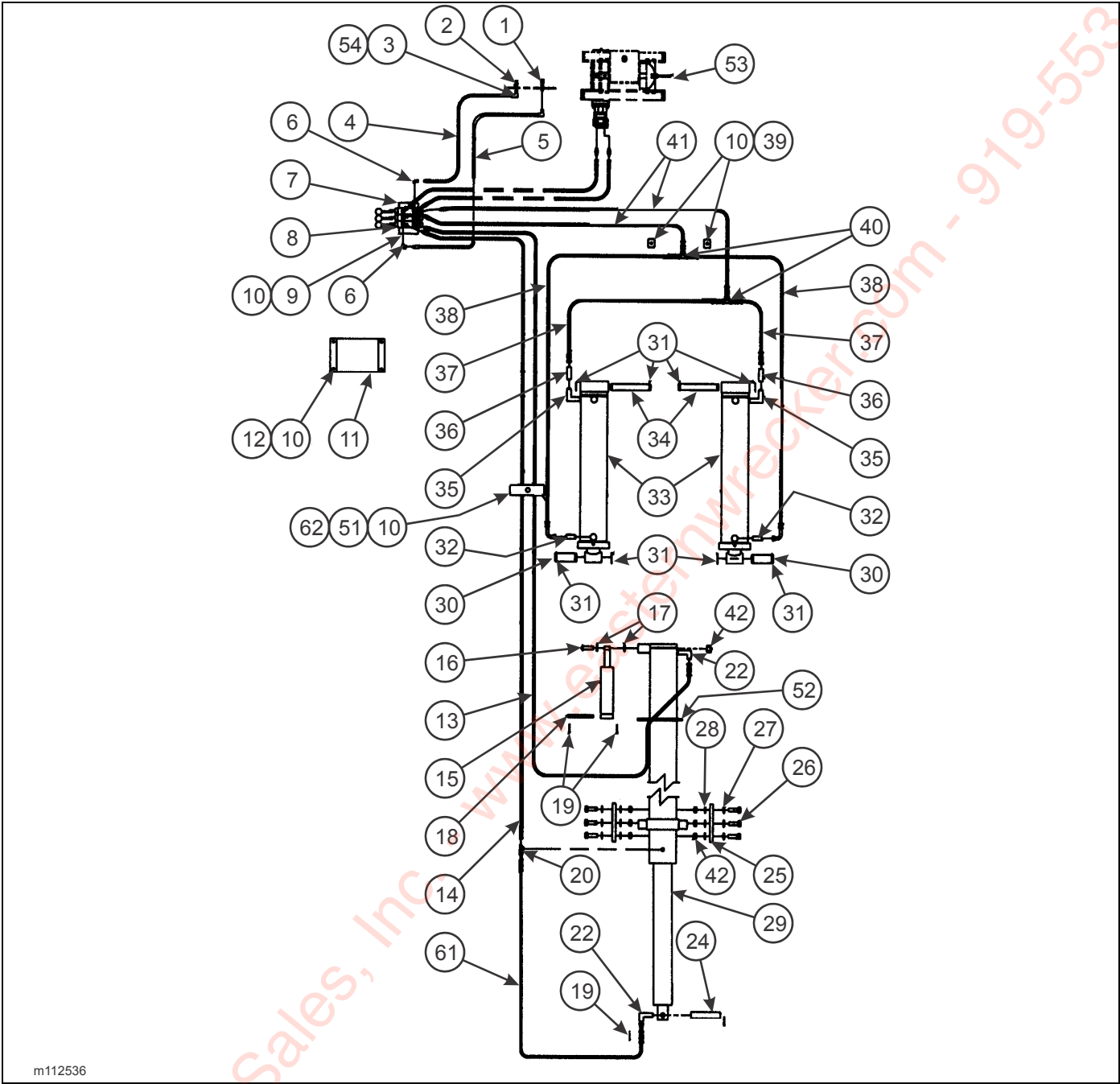


Figure 2-9: Hydraulic System

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	105480	COUPLER, FLAT FACE FEMALE	1
	105482	COUPLER, DUST CAP FEMALE	1
2	105479	COUPLER, FLAT FACE MALE	1
	105481	COUPLER, DUST CAP MALE	1
3	2240-12-12S	ADAPTER, BULKHEAD (NOT USED W/ ENGINE PACKAGE)	2
	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

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
6	2062-12-12S	ADAPTER, 90	2
7	139527	VALVE ASSEMBLY, 3 SPOOL (PRIOR 01/10/2008) (SEE PAGE 2-23)	1
	148243	VALVE ASSEMBLY, 3 SPOOL (AFTER 01/10/2008) (SEE PAGE 2-27)	
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
	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
	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 2-17)	1
	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 2-19)	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
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 2-64 - 2-94)	REF.
54	105483	ADAPTER, BULKHEAD	2
55	105822	DECAL, HYDRAULIC COUPLER (NOT SHOWN)	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

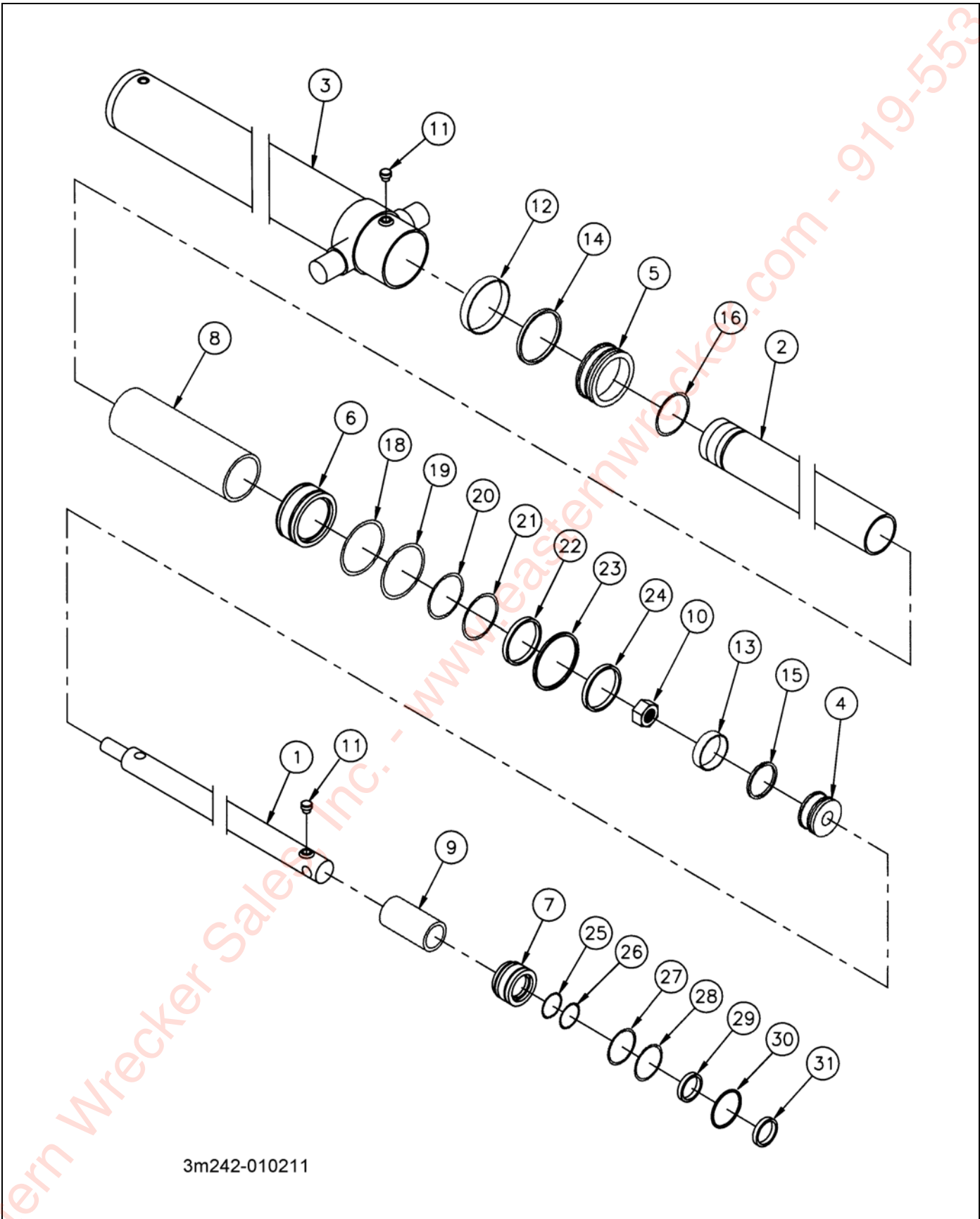
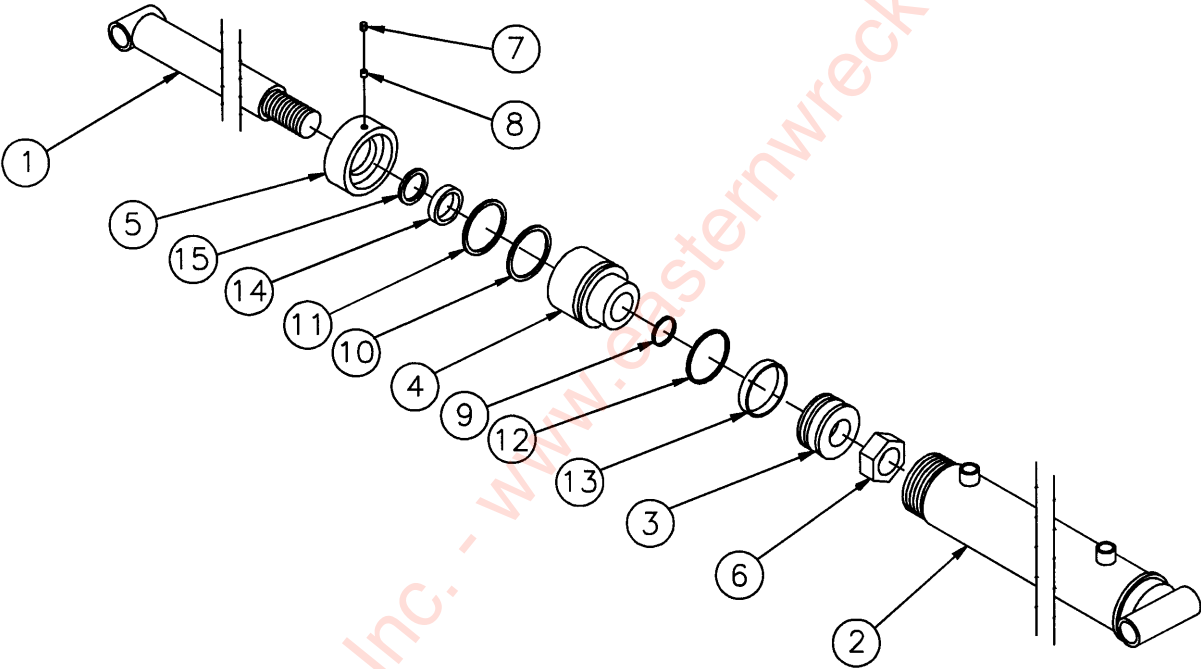


Figure 2-10: Cylinder, Hydraulic 6 x 4 x 212

CYLINDER 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
	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	1
13*	-----	BEARING RING	1
14*	-----	TEFLON SEAL	1
15*	-----	TEFLON SEAL	1
16*	-----	ROUND RING	1
17*	-----	O-RING	1
18*	-----	O-RING	1
19*	-----	BU-WASHER	1
20*	-----	O-RING	1
21*	-----	BU-WASHER	2
22*	-----	U-CUP	1
23	-----	SQ. RET. RING	1
24*	-----	WIPER	1
25*	-----	BU-WASHER	2
26*	-----	O-RING	1
27*	-----	O-RING	1
28*	-----	BU-WASHER	1
29*	-----	U-CUP	1
30	-----	SQ. RET. RING	1
31*	-----	WIPER	1
32	PMCK-AS-715	PACKING KIT (ITEMS 12-22,24-29,& 31)(AS-715)	

* PARTS AVAILABLE IN PACKING KIT ONLY.



3m242-010189

Figure 2-11: Cylinder, Hydraulic 6 X 41

CYLINDER 6" X 41"

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010189	CYLINDER HYDRAULIC 6" X 41" (PRINCE PMC-22030)	
1	140319	PISTON ROD ASSEMBLY	1
2	-----	BUTT AND TUBE ASSEMBLY	1
3	-----	PISTON	1
4	167691	GLAND	1
5	-----	GLAND CUP	1
6	-----	NUT, LOCK	1
7	-----	SET SCREW	1
8	-----	NYLON LOCK	1
9*	-----	O-RING	1
10*	-----	O-RING	1
11*	-----	BU-WASHER	1
12*	-----	CROWN SEAL	1
13*	-----	BEARING RING	1
14*	-----	U-CUP	1
15*	-----	WIPER	1
	PMCK-22000	PACKING KIT (CONTAINS ITEMS 9 THROUGH 15)	

* PARTS AVAILABLE IN PACKING KIT ONLY.

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

ILLUSTRATED PARTS LIST

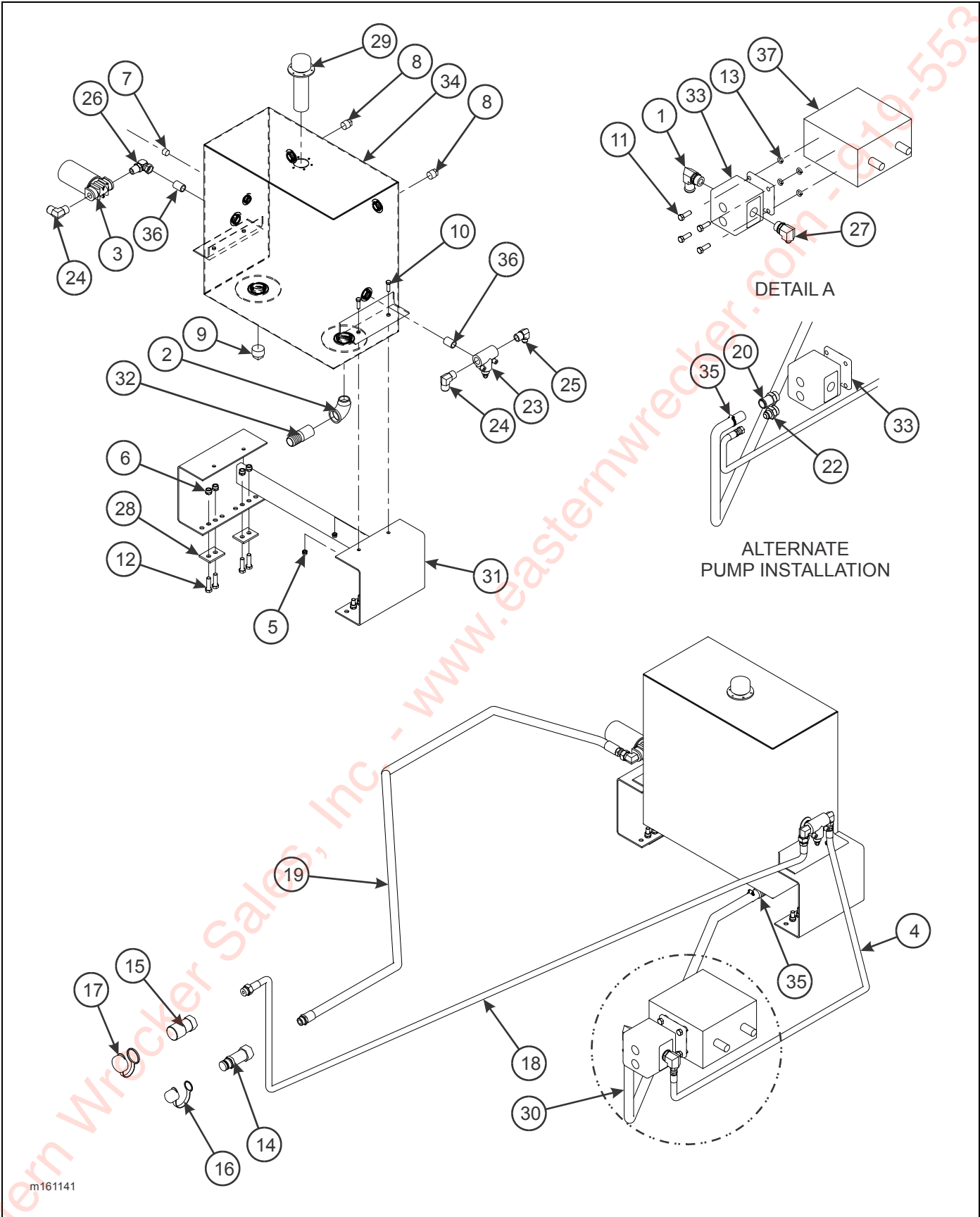


Figure 2-12: 30 Gallon Hydraulic Wet Kit Items

30 GALLON HYDRAULIC WET KIT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
2	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
3	1-295-010001	FILTER, RETURN	1
	1-295-010002	FILTER ELEMENT	1
4	1-397-010301100	HOSE ASSEMBLY 1/2 X 100	1
5	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
6	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8
7	1-560-010002-04	PIPE PLUG 1/2	1
8	1-560-010002-05	PIPE PLUG 3/4	2
9	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
10	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	4
11	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
12	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	8
13	1-861-010034-13	WASHER, SPLIT LOCK 1/2	4
14	105479	COUPLER, FLAT FACE MALE NOSE	1
15	105480	COUPLER, FLAT FACE FEMALE BODY	1
16	105481	COUPLER, DUST CAP MALE	1
17	105482	COUPLER, DUST CAP FEMALE	1
18	106759	HOSE ASSEMBLY 1/2 X 164	1
19	106760	HOSE ASSEMBLY 3/4 X 164	1
20	107513	ADAPTER	1
22	12-16 070120	ADAPTER	1
23	125130	RD12D HYDRAULIC BY PASS SRDD	1
24	2024-12-12S	ADAPTER 90	2
25	2024-12-8S	ADAPTER, 90	1
26	2047-12-12S	ELBOW, 90 SWIVEL	1
27	2062-16-8S	ADAPTER, 90	1
28	3-120-010461	BRACKET, HYDRAULIC TANK MOUNT SUPPORT	4
29	3-162-010001	FILLER-BREATH-STRainer ASSEMBLY	1
30	3-399-010001	HOSE, 1-1/4 SUCTION	8'
31	3-482-010503	TANK MOUNT	1
32	3-561-010001	HOSE BARB 1-1/4	1
33	3-591-010001	HYDRAULIC GEAR PUMP	1
34	3-786-010043	TANK, HYDRAULIC	1
35	6828	IDEAL HOSE CLAMP	2
36	C3069X12	NIPPLE, HEX	2
37	PTO	POWER TAKE OFF	*1,0

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

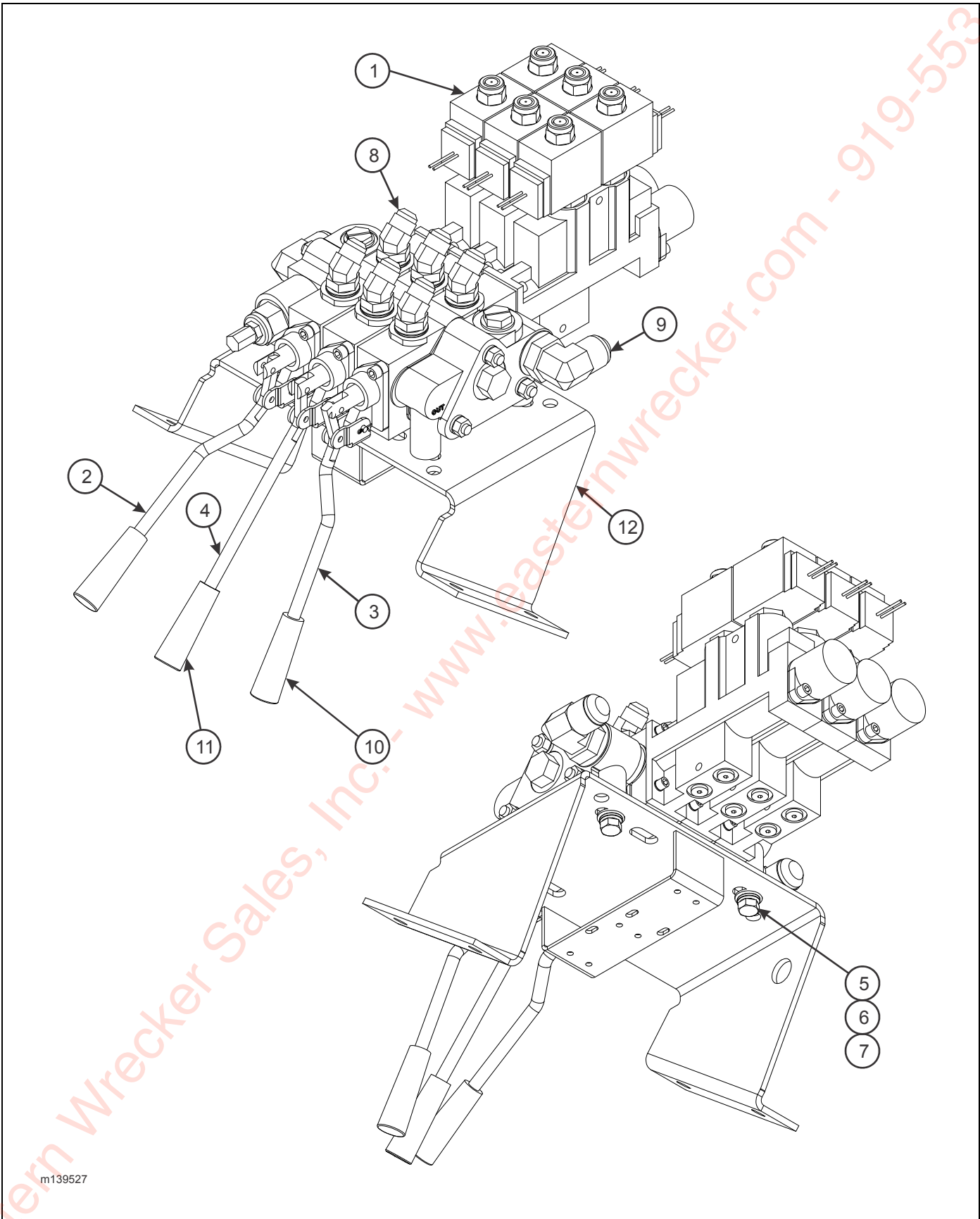
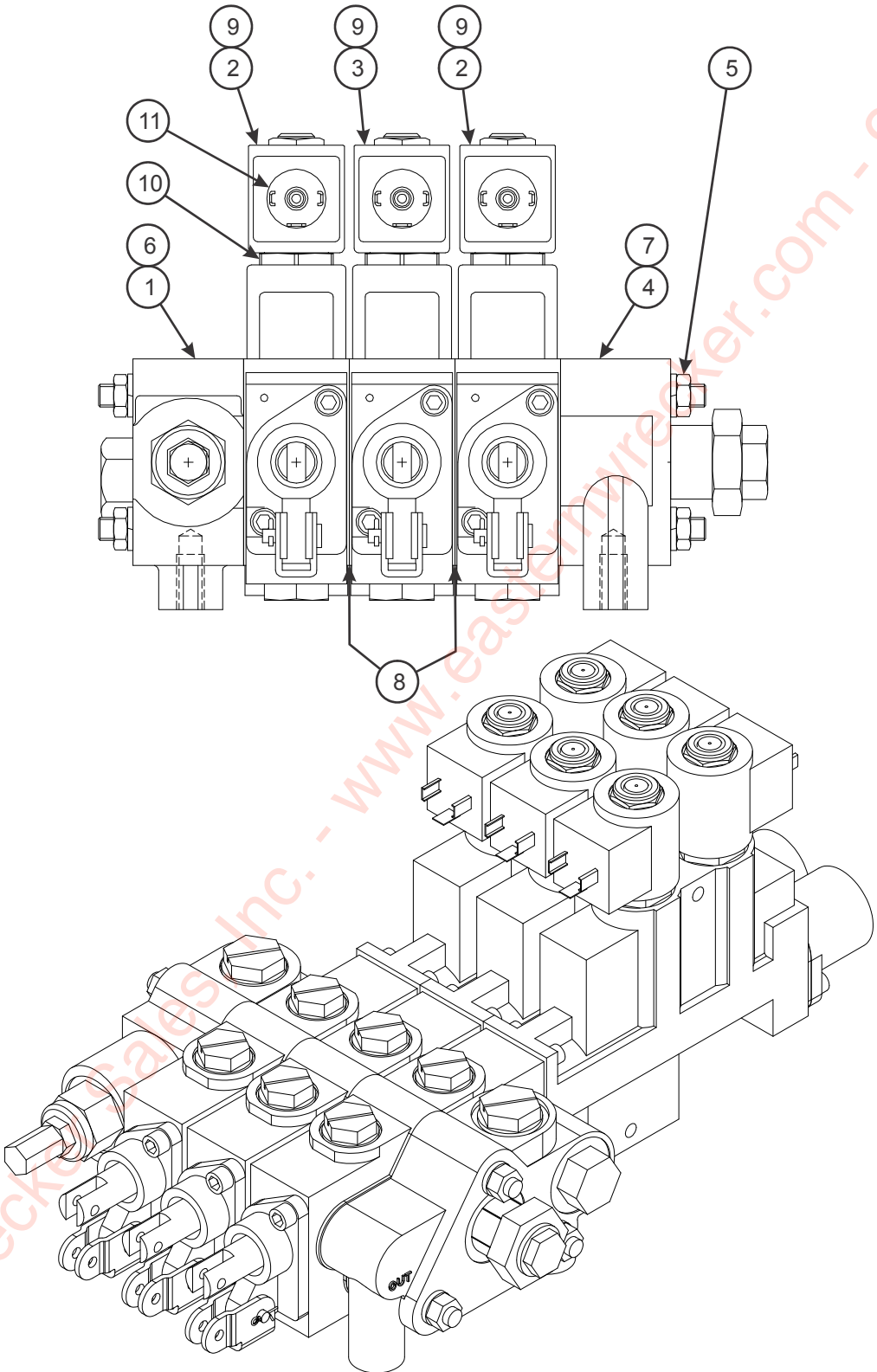


Figure 2-13: Three Spool Valve Assembly (Prior 01/10/2008)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	139527	VALVE ASSEMBLY, 3 SPOOL	
1	114540	VALVE, 3 STACK 2ND MOTOR SOL (SEE PAGE 2-25)	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



m114540

Figure 2-14: Three Spool Valve (Prior 01/10/2008)

THREE SPOOL VALVE (PRIOR 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 (INCL ITEMS 10 & 11)	

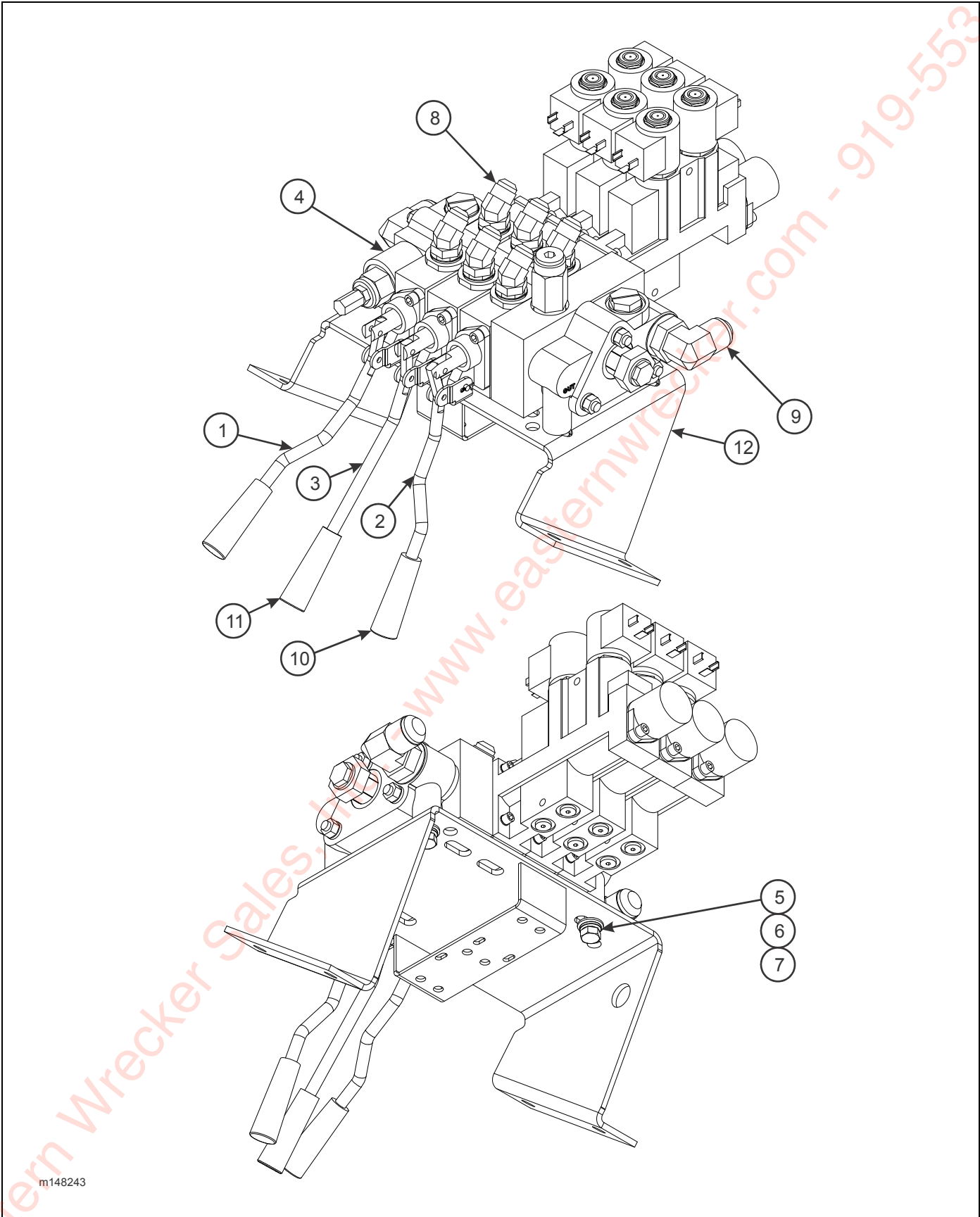
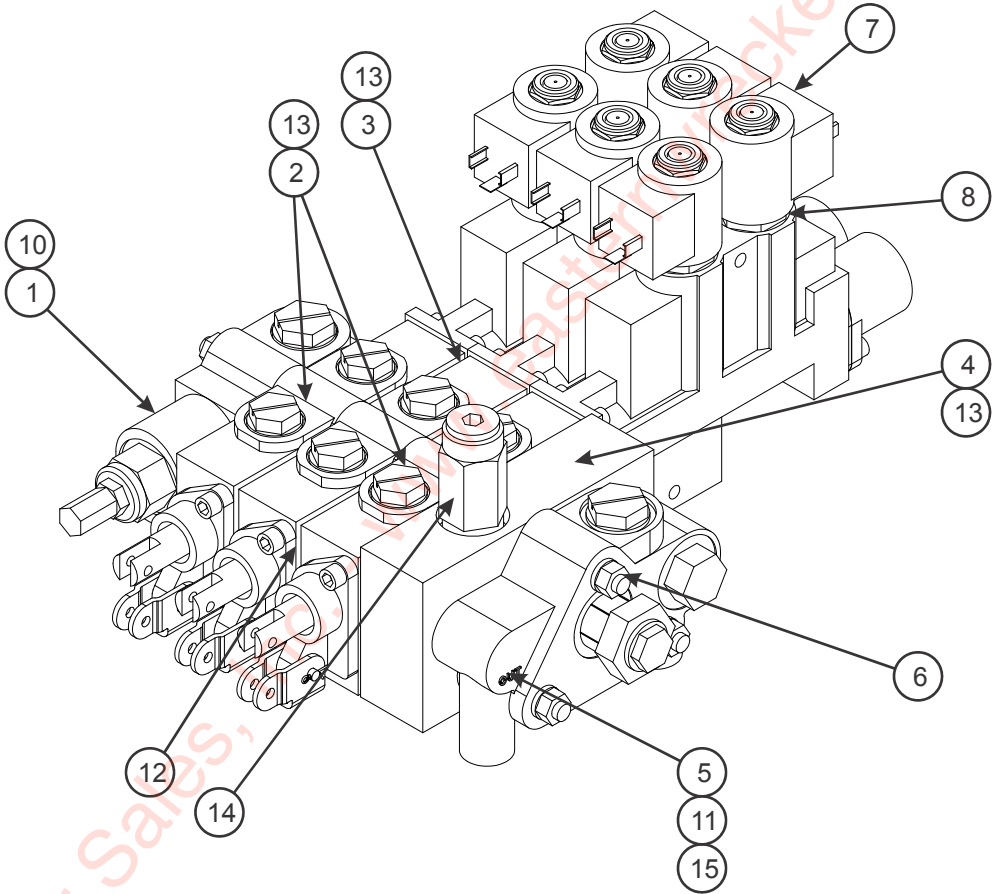


Figure 2-15: Three Spool Valve Assembly (After 01/10/2008)

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 2-29)	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



m148240

Figure 2-16: Three Spool Valve (After 01/10/2008)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	148240	VALVE, THREE SPOOL 2ND MOTOR SPOOL	
1	149526	INLET SECTION KIT	
2	149527	VALVE SECTION KIT	
3	149528	VALVE SECTION KIT	
4	149529	VALVE SECTION KIT	
5	142483	OUTLET SECTION KIT	
6	149530	TIEROD KIT	
7	142484	COIL	
8	142485	CARTRIDGE	
9	142486	COIL CARTRIDGE ASSEMBLY (INCL ITEMS 7 & 8)	
10	660580002	SEAL KIT FOR INLET SECTION	
11	660580003	SEAL KIT FOR OUTLET SECTION	
12	660580004	O-RING SEAL KIT FOR BETWEEN SECTIONS	
13	660580005	SEAL KIT FOR SOLENOID WORK SECTION	
14	149030	PRESSURE REDUCING CARTRIDGE IN UTILITY SECTION (149529)	
15	151823	PRESSURE BUILD UP CARTRIDGE IN OUTLET SECTION (142483)	

A diagram of a 6-pin RV connector. The pins are arranged in a circular pattern. The colors and their corresponding pin positions are: BLUE (top left), WHITE (top right), BLACK (middle left), BROWN (middle right), YELLOW (bottom left), and GREEN (bottom right). A RED line points to the central ground pin. Arrows indicate the flow of power from the pins to the central ground.



2-30

ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
1	STP-147	CONNECTOR, BULLET MALE	2
2	STP-164	CONNECTOR, BULLET FEMALE	1
3	1-796-010003-02	TIE WRAPS (NOT SHOWN)	2
4*	139537	RECEIVER/TRANSMITTER ASSEMBLY, KAR-TECH	1
	143125	TRANSMITTER, 6 FUNCTION	1
	143127	POUCH, TRANSMITTER	1
5	140083	HARNESS ASSEMBLY, KAR-TECH	1
6	143100	HARNESS, 7 WAY RECEPTACLE	1
7	143101	HARNESS, FRONT MAIN	1
8	143102	HARNESS, BED MAIN	1
9	143103	HARNESS, E-CHAIN	1
10	143104	HARNESS, BUMPER	1
11	143105	HARNESS, MARKER FRONT CORNER	2
12	143106	HARNESS, MARKER FRONT BED	1
13	143107	HARNESS, MARKER REAR BED	1
14	143108	LIGHT, RED LED 2.5 CL/MARKER	2
15	143109	LIGHT, YELLOW LED 2.5 CL/MARKER	8
16	143110	GROMMET, 2.5 SURFACE MOUNT	7
17	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	AR
32	2-181-010001	CLAMP, HOSE	AR
37	143128	DECAL, 6 FUNCTION WINCH, TILT, AXLE	1
38	143111	GROMMET, 2.5 RECESSED MOUNT	4

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

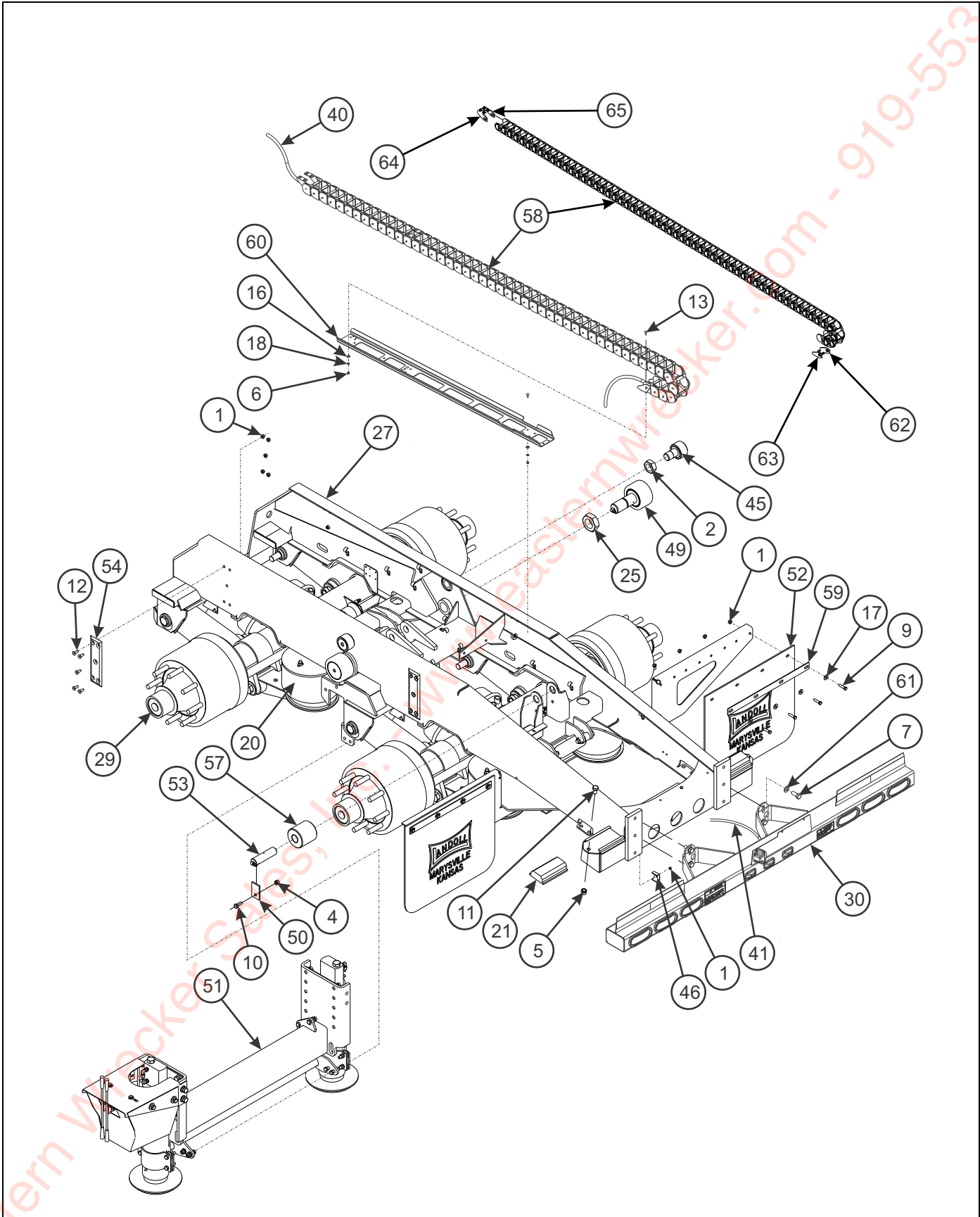
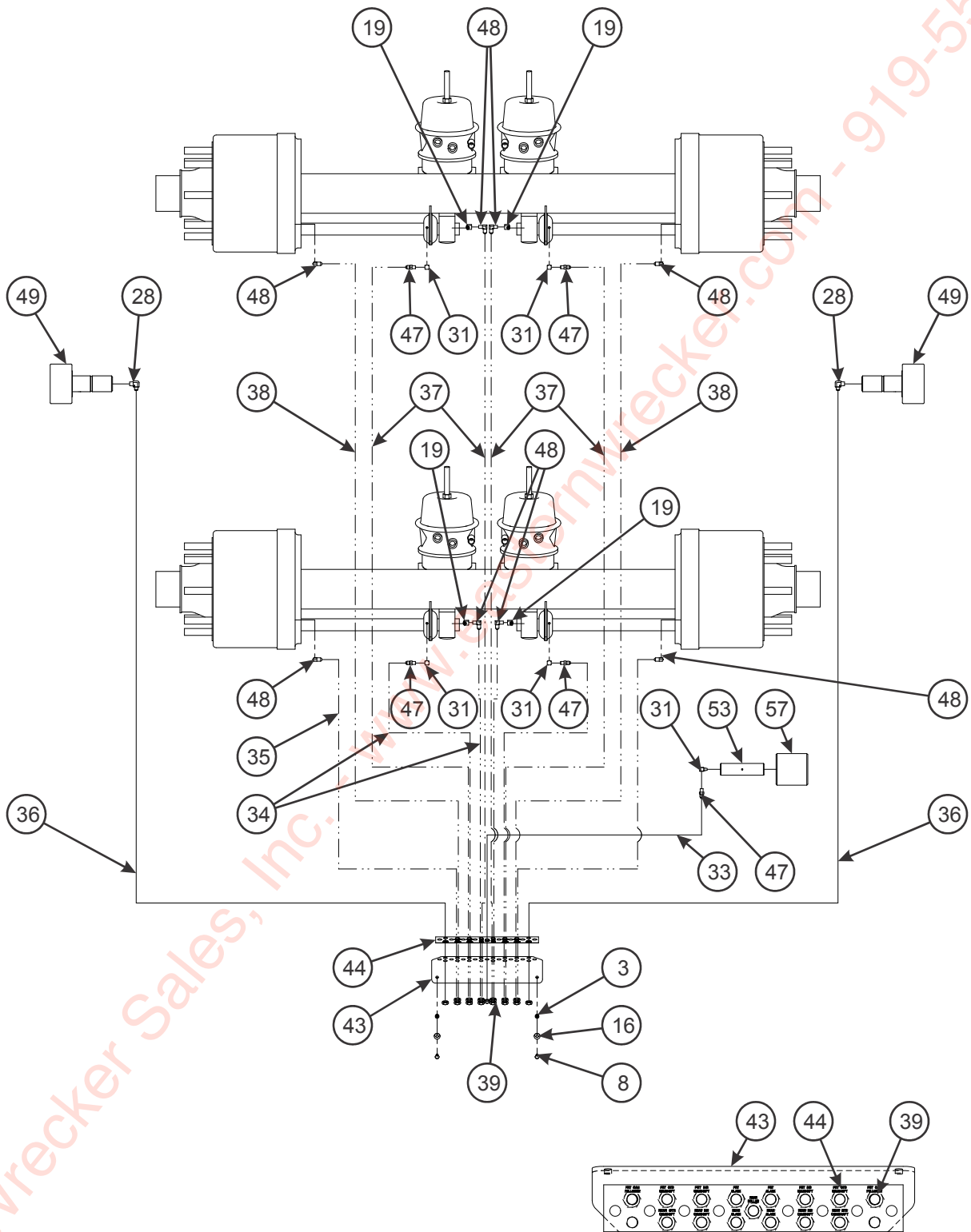


Figure 2-18: U/C Assembly, Air Ride Suspension (Tandem Axle)
(1 of 2)



m150908p2

Figure 2-19: U/C Assembly, Air Ride Suspension (Tandem Axle)
(2 of 2)

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
	150908	SUSPENSION U/C ASSEMBLY A/R ABS 2512-70.5 D/L	REF
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
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	1-512-010007-05	NUT, HEX 1/4-20 GRB	6
7	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	6
8	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
10	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
11	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1-1/4 GR5	2
12	1-654-010141-04	SCREW, HEX SOCKET FL CAP 3/8-16 X 1 GR8	20
13	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	6
14	1-796-010004-02	TIE, STRAP, PLASTIC (NOT SHOWN)	4
15	1-843-010014	VALVE EXTENSION, STEM (SEE PAGE 2-54)	4
16	1-861-010032-07	WASHER, FLAT 1/4	9
17	1-861-010032-11	WASHER, FLAT 3/8W	8
18	1-861-010034-09	WASHER, SPLIT LOCK 1/4	7
19	101528	ELBOW, BRASS PIPE STREET	4
20	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 2-48)	2
	102364	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 2-48)	2
21	102698	PLATE, RUB BUMPER	2
24	103082	SUSPENSION, AIR RLU A/R TANDEM (SEE PAGE 2-42)	1
25	104034	NUT, HEX 2-12 GR2	4
26	109405	AIR SYSTEM, U/C ABS TAN. (NOT SHOWN) (SEE PAGE 2-58)	1
	107873	AIR SYSTEM, U/C ABS TAN. (NOT SHOWN) (SEE PAGE 2-58)	1
27	112549	SUSPENSION WELDMENT E/P ABS A/R 660	1
28	113268	ADAPTER 90	4
29	115732	AXLE WELDMENT A/R 2512 SPG 70.5 31	2
	115733	AXLE WELDMENT A/R 2512 SPG 77 31	2
	115738	AXLE WELDMENT A/R 2516 SPG 69 31	2
	136256	AXLE WELDMENT A/R 2512 SPG 70.5 31 TIS	2
	138205	AXLE WELDMENT A/R 2516 SPG 69 31 TIS	2
	145533	AXLE WELDMENT A/R 2512 SPG 77 31 (FOR BREAKDOWNS, SEE PAGES 2-49 - 2-51)	2
30	119580	BUMPER WELDMENT E/P 102	1
	121369	BUMPER WELDMENT CAN	1
31	121355	ELBOW, 90	4
32	135346	TIRE INFLATION SYS 2 AX (NOT SHOWN) (SEE PAGE 2-142)	1
33	142441	HOSE ASSEMBLY GREASE X 45 (435)	2
34	142442	HOSE ASSEMBLY GREASE X 60 (435-CA)	2
35	142443	HOSE ASSEMBLY GREASE X 72 (435)	6
36	142444	HOSE ASSEMBLY, GREASE 1/4 X 83	2
37	142446	HOSE ASSEMBLY GREASE X 118 (435)	4
38	142447	HOSE ASSEMBLY GREASE X 126 (435)	2
39	142545	NUT, 7/16	16

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (TANDEM)

ITEM	PART NO.	DESCRIPTION	QTY.
40	143103	HARNESS ASSEMBLY, E-CHAIN	1
41	143104	HARNESS ASSEMBLY, BUMPER	1
42	143122	CLAMP, HARNESS	1
43	143182	BRACKET, GREASE HOSE	1
44	143688	DECAL, GREASE	1
45	145532	CAM FOLLOWER, 3" SEALED	2
46	2-181-010001	CLAMP, HOSE	1
47	2021-2-4	ADAPTER, STRAIGHT	4
48	2024-2-4S	ADAPTER, ELBOW	8
49	3-076-010015	CAM FOLLOWER 5" DIA	2
50	3-187-010013	CLIP, PIN RETAINER	1
51	3-256-010003-02	DOCK LEVEL ASSEMBLY (SEE PAGE 2-100)	1
52	3-485-010001	MUD FLAP, 21"	2
53	3-557-010466-01	PIN, 1-1/2	1
54	3-565-011218	PLATE, RUB U/C	4
57	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
58	3-755-010189	SUPPORT, E-CHAIN (BEFORE 6-3-2015)	1
	189314	SUPPORT, E-CHAIN, 48 LINKS 3838 (AFTER 6-3-2015)	1
59	3-762-010017	CLAMP, MUD FLAP	2
60	3-821-010005	TRAY, CAT TRACK	1
61	622-3511-008	WASHER, 3/4N	4
62	190701	BRACKET WLDMT, E-CHAIN LH (AFTER 6-3-2015)	1
63	190706	BRACKET WLDMT, E-CHAIN RH (AFTER 6-3-2015)	1
64	190700ZP	BRACKET, E-CHAIN LH (AFTER 6-3-2015)	1
65	190705ZP	BRACKET, E-CHAIN RH (AFTER 6-3-2015)	1
	189382	FIELD INSTALLATION KIT (ITEM 58 & 62-65)	1

* SEE TABLES BELOW FOR HOSE LOCATIONS

GREASE HOSE LOCATION, P/N, AND LENGTH (660)

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
33	TO REAR ROLLER	142441	----	45"
34	TO REAR INNER CAMSHAFT	142442	142442	60"
	TO REAR SLACK	142442	142442	60"
35	TO REAR OUTER CAMSHAFT	142443	142443	72"
36	TO 5" CAM FOLLOWER	142444	142444	83"
37	TO FRONT INNER CAMSHAFT	142446	142446	118"
	TO FRONT SLACK	142446	142446	118"
38	TO FRONT OUTER CAMSHAFT	142447	142447	126"

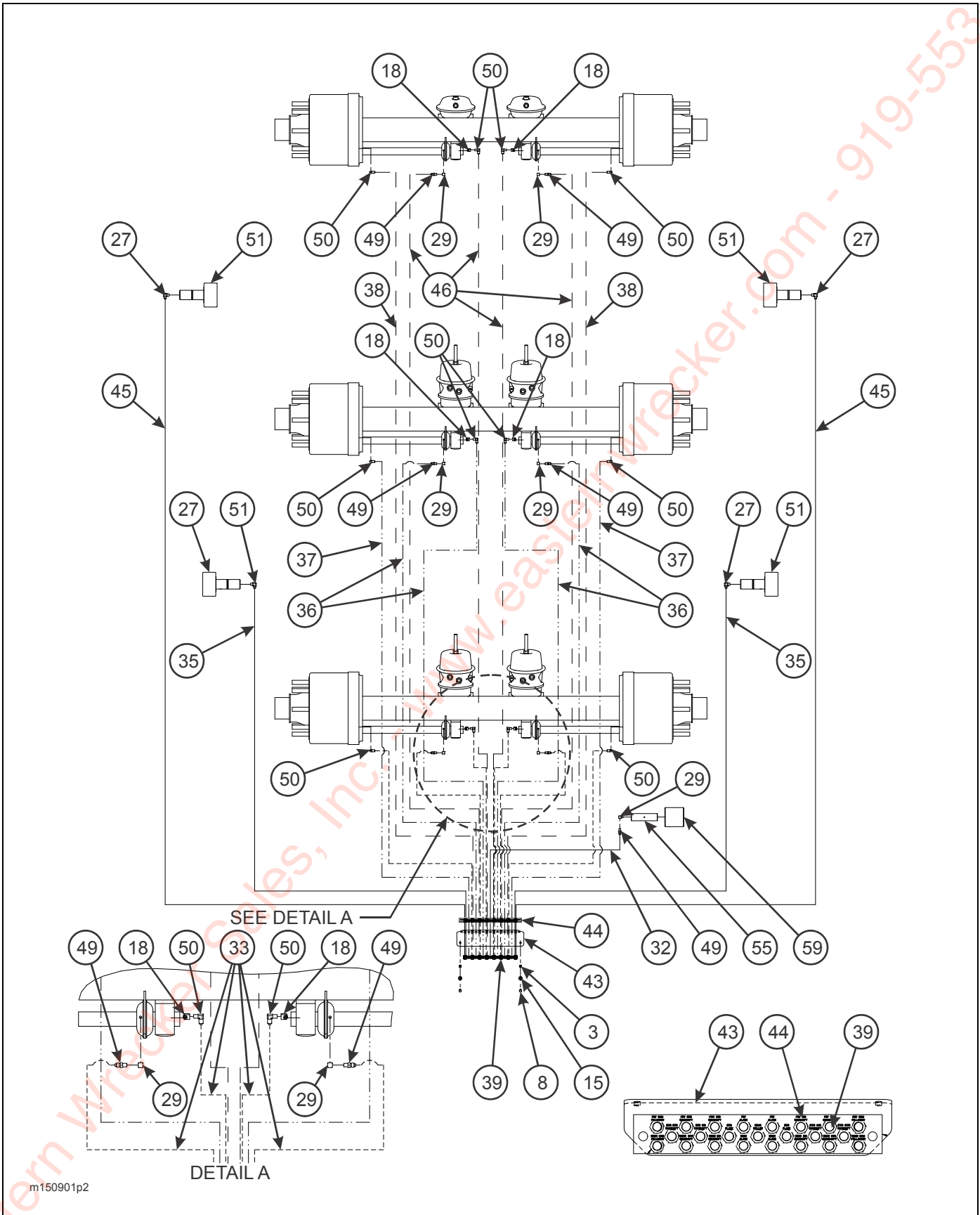


Figure 2-20: U/C Assembly, Air Ride Suspension (Triple Axle)
(1 of 2)

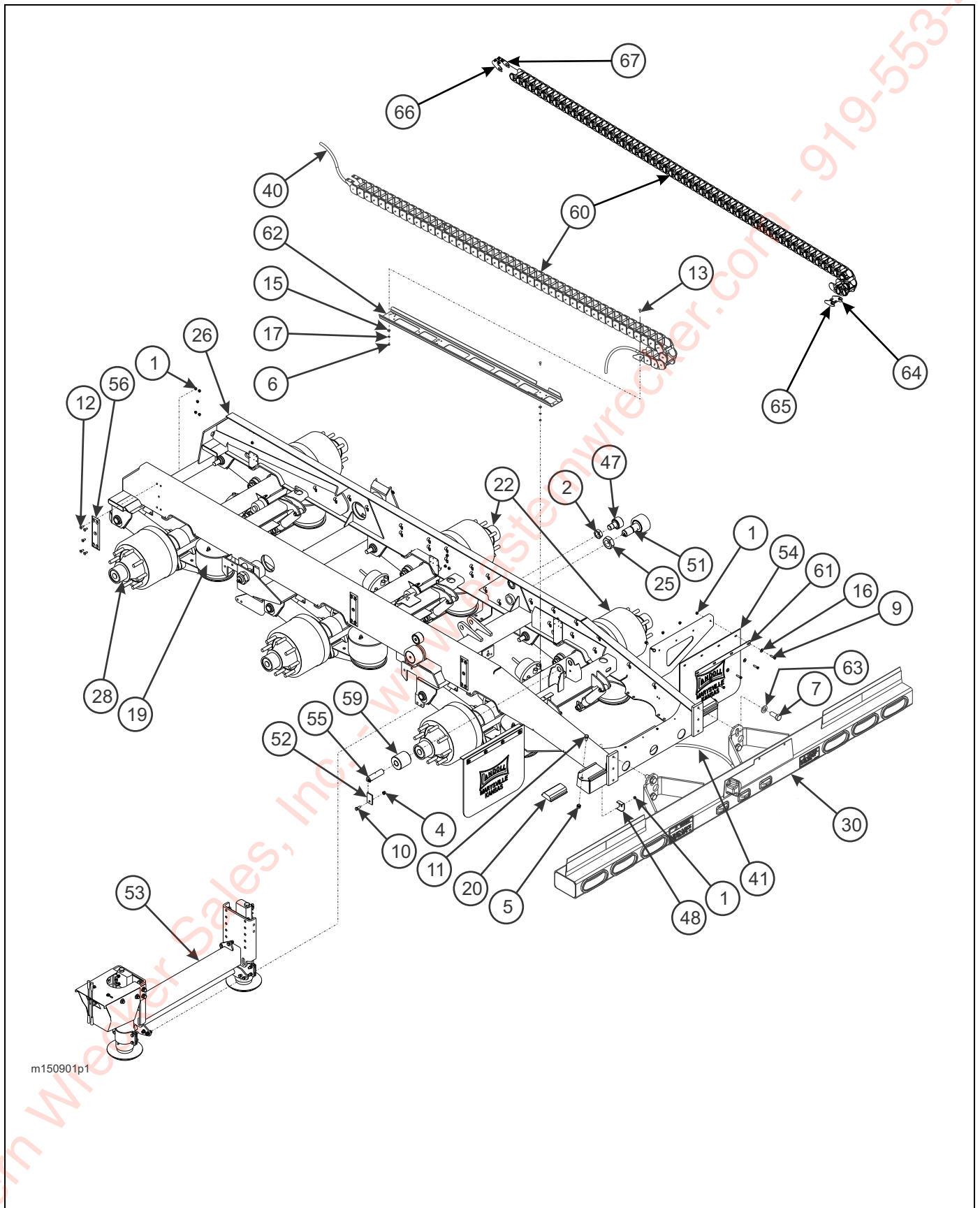


Figure 2-21: U/C Assembly, Air Ride Suspension (Triple Axle)
(2 of 2)

UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (TRIPLE AXLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	150900	SUSPENSION U/C ASSEMBLY A/R ABS, 102	REF
	150901	SUSPENSION U/C ASSEMBLY A/R ABS, 108	REF
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	9
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	1-512-010007-05	NUT, HEX 1/4-20 GRB	7
7	1-654-010032-4	SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8	4
8	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	2
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
10	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
11	1-654-010059-01	SCREW, HEX HEAD CAP 5/8-11 X 1 GR5	2
12	1-654-010141-04	SCREW, HEX SOCKET FL CAP 3/8-16 X 1 GR8	30
13	1-654-010158-1	SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2	7
14	1-843-010014	VALVE EXTENSION, STEM (SEE PAGE 2-54)	6
15	1-861-010032-07	WASHER, FLAT 1/4	9
16	1-861-010032-11	WASHER, FLAT 3/8W	8
17	1-861-010034-09	WASHER, SPLIT LOCK 1/4	7
18	101528	ELBOW, BRASS PIPE STREET	6
19	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 2-48)	3
	102364	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 2-48)	2
20	102698	NYLATRON RUB PLATE	2
21	103084	SUSPENSION AIR SYS TRIDEM (SEE PAGE 2-44)	1
22	115732	AXLE WELDMENT A/R 2512 SPG 70.5 31	2
	115738	AXLE WELDMENT A/R 2516 SPG 69 31	2
	115743	AXLE WELDMENT A/R 2512 SPG 77 41	2
	136256	AXLE WELDMENT A/R 2512 SPG 70.5 31 TIS	2
	115745	AXLE WELDMENT A/R 2516 SPG 75 41	2
	142432	AXLE WELDMENT A/R 2516 SPG 75 41 TIS	2
	145535	AXLE WELDMENT A/R 2512 SPG 77 44	2
	138205	AXLE WELDMENT A/R 2516 SPG 69 31 TIS (FOR BREAKDOWNS, SEE PAGES 2-49 - 2-51)	2
24	103816	AIR SYSTEM, U/C ABS TRI. (SEE PAGE 2-58)	1
25	104034	NUT, HEX 2-12 GRB	4
26	104923	SUSPENSION WELDMENT E/P ABS A/R	1
	112575	SUSPENSION WELDMENT E/P ABS A/R	1
27	113268	ADAPTER, 90	4
28	115735	AXLE WELDMENT A/R 2512 SER 70.5 31	1
	115740	AXLE WELDMENT A/R 2516 SER 69 31	1
	115744	AXLE WELDMENT A/R 2512 SER 77 41	1
	138199	AXLE WELDMENT A/R 2512 SER 70.5 31	1
	115746	AXLE WELDMENT A/R 2516 SER 75 41	1
	142433	AXLE WELDMENT A/R 2516 SER 75 41 TIS	1
	145536	AXLE WELDMENT A/R 2512 SER 77 41	1
	145537	AXLE WELDMENT A/R 2516 SER 69 31 (FOR BREAKDOWNS, SEE PAGES 2-49 - 2-51)	1

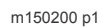
UNDERCARRIAGE ASSEMBLY, AIR RIDE SUSPENSION (TRIPLE AXLE)

ITEM	PART NO.	DESCRIPTION	QTY.
29	121355	ELBOW, 90	4
30	119580	BUMPER WELDMENT E/P 102	1
	121368	BUMPER WELDMENT 108	1
31	137791	TIRE INFLATION SYS TRIPLE (NOT SHOWN) (SEE PAGE 2-142)	1
32*	142441	HOSE ASSEMBLY, GREASE 1/8 X 45	1
33*	142442	HOSE ASSEMBLY, GREASE 1/8 X 60	4
34*	142443	HOSE ASSEMBLY, GREASE 1/8 X 72	2
35*	142444	HOSE ASSEMBLY, GREASE 1/8 X 83	4
36*	142446	HOSE ASSEMBLY, GREASE 1/8 X 118	4
37*	142447	HOSE ASSEMBLY, GREASE 1/8 X 126	2
38*	142454	HOSE ASSEMBLY, GREASE 1/8 X 200	2
39	142545	NUT, 7/16	25
40	143103	HARNESS, E-CHAIN	1
41	143104	HARNESS, BUMPER	1
42	143122	CLAMP, HARNESS	1
43	143182	BRACKET, GREASE HOSE	1
44	143688	DECAL, GREASE	1
45*	144614	HOSE ASSEMBLY, GREASE 1/8 X 172	2
46*	145416	HOSE ASSEMBLY, GREASE 1/8 X 186	4
47	145532	CAM FOLLOWER, 3" DIA SEALED	2
48	2-181-010001	CLAMP, HOSE	1
49	2021-2-4	ADAPTER, STRAIGHT	7
50	2024-2-4S	ADAPTER, ELBOW	14
51	3-076-010015	CAM FOLLOWER 5" DIA	4
52	3-187-010013	CLIP, PIN RETAINER	1
53	3-256-010003-08	DOCK LEVELER ASSEMBLY 60K (SEE PAGE 2-100)	1
54	3-485-010001	MUD FLAP, 21"	2
55	3-557-010466-01	PIN, 1-1/2	1
56	3-565-011218	PLATE, RUB U/C	4
59	3-645-010084	ROLLER ASSEMBLY, REAR U/C	1
60	3-755-010189	SUPPORT, E-CHAIN (BEFORE 6-3-2015)	1
	189314	SUPPORT, E-CHAIN, 48 LINKS 3838 (AFTER 6-3-2015)	1
61	3-762-010017	CLAMP, MUD FLAP	2
62	3-821-010005	TRAY, CAT TRACK	1
63	622-3511-008	WASHER, 3/4N	4
64	190701	BRACKET WLDMT, E-CHAIN LH (AFTER 6-3-2015)	1
65	190706	BRACKET WLDMT, E-CHAIN RH (AFTER 6-3-2015)	1
66	190700ZP	BRACKET, E-CHAIN LH (AFTER 6-3-2015)	1
67	190705ZP	BRACKET, E-CHAIN RH (AFTER 6-3-2015)	1
	189382	FIELD INSTALLATION KIT (ITEM 60 & 64-67)	1

* SEE TABLE BELOW FOR HOSE LOCATIONS

GREASE HOSE LOCATION, P/N, AND LENGTH (610)

ITEM	HOSE LOCATION	RIGHT	LEFT	LENGTH
32	TO REAR ROLLER	142441	-----	45"
33	TO REAR INNER CAMSHAFT	142442	142442	60"
	TO REAR SLACK	142442	142442	60"
34	TO REAR OUTER CAMSHAFT	142443	142443	72"
35	TO 5" CAM FOLLOWER	142444	142444	83"
36	TO MID INNER CAMSHAFT	142446	142446	118"
	TO MID SLACK	142446	142446	118"
37	TO MID OUTER CAMSHAFT	142447	142447	126"
38	TO FRONT OUTER CAMSHAFT	142454	142454	200"
45	TO FRONT 5" CAM FOLLOWER	144614	144614	172"
46	TO FRONT SLACK	145416	145416	186"
	TO FRONT INNER CAMSHAFT	145416	145416	186"



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 2-48)	REF	REF
12	102732	AIR CONTROL KIT NEWAY (INCL ITEMS 15 & 16) (SEE PAGE 2-46)	1	1
13	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1	1
14	3-780-010002	TANK AIR	REF	REF
15	900 54 007	HEIGHT CONTROL VALVE	REF	REF
16	905-54-107	BRAKE PROTECTION VALVE	REF	REF
	167692	FILTER	1	1

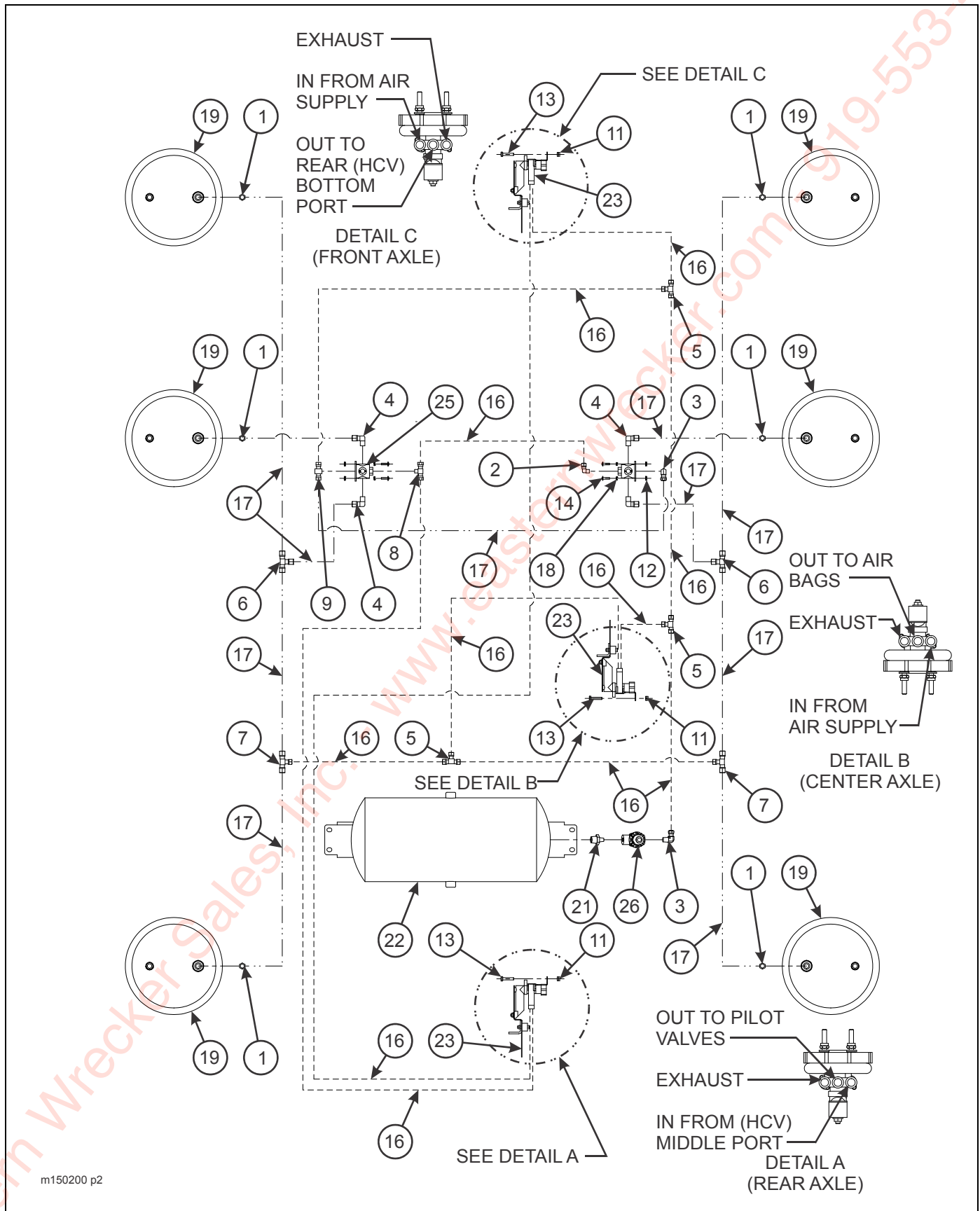
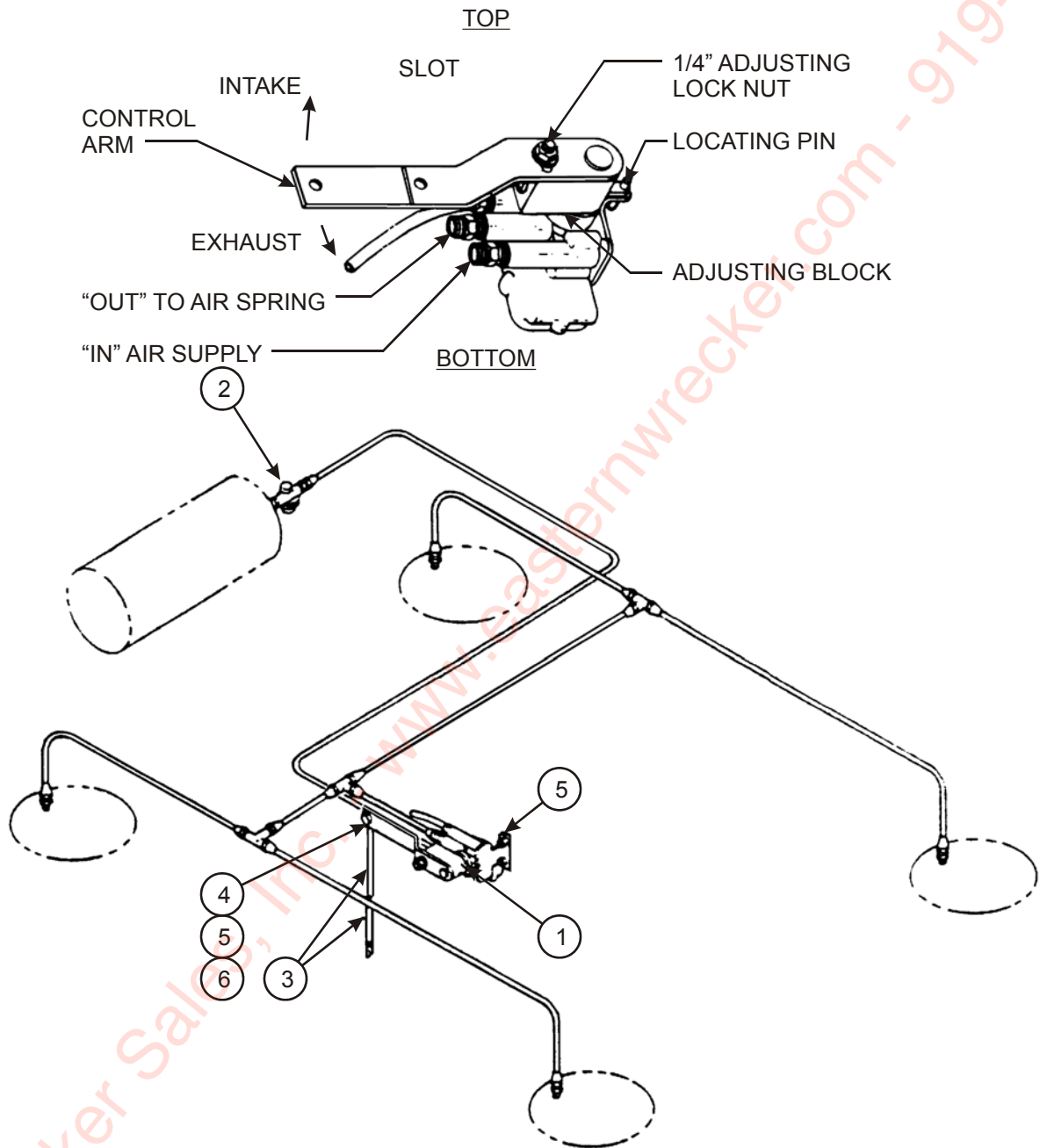


Figure 2-23: Air Ride Suspension, Air System (Triple)

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 2-48)	REF
21	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	1
22	3-780-010002	TANK AIR	REF
23	3-843-010034	VALVE AIR RIDE HEIGHT CONTROL	3
25	900-54-079	PILOT VALVE	2
26	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1

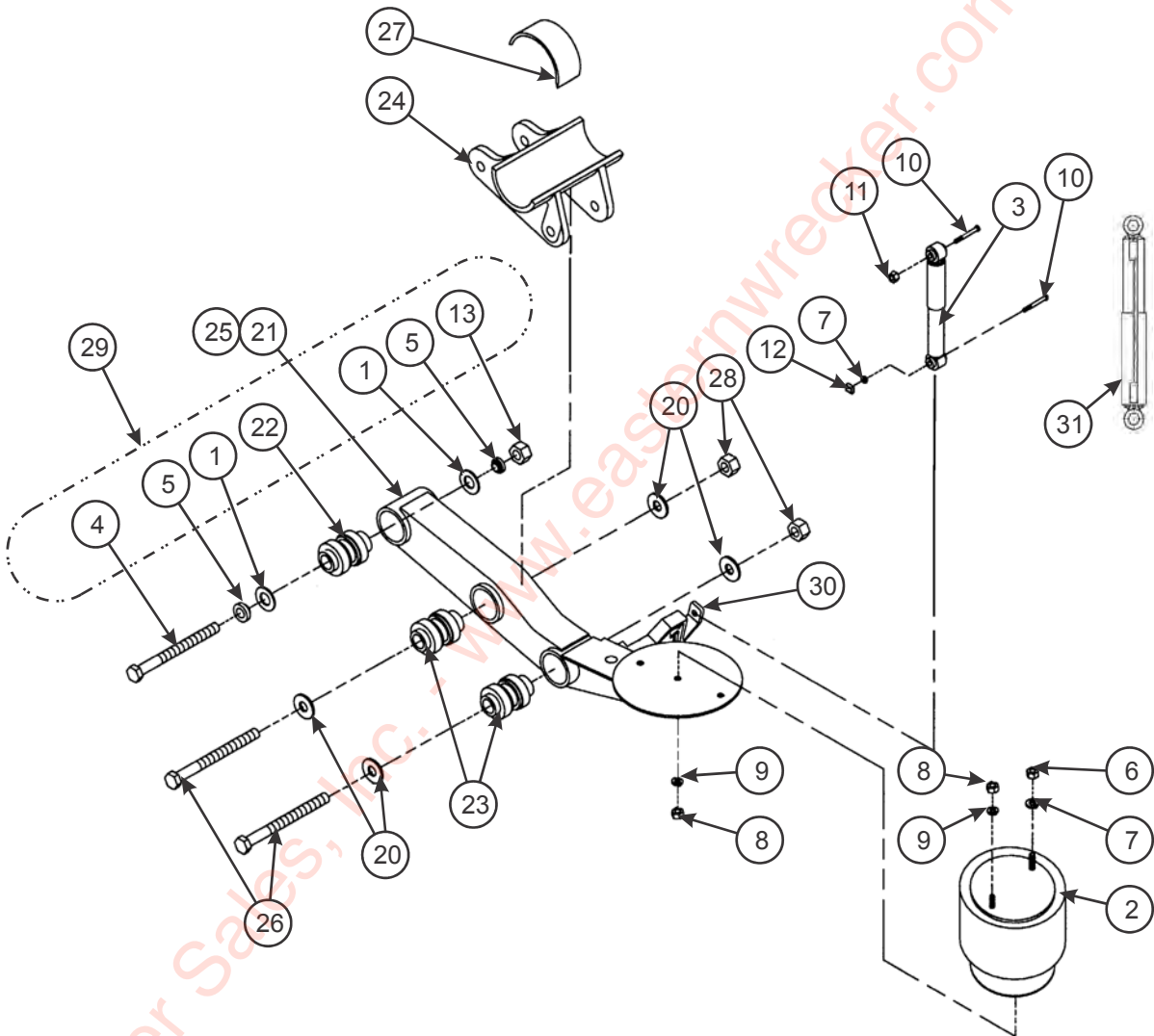


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Figure 2-24: Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	905-54-107	AIR PRESSURE PROTECTION VALVE & FILTER	1
	167692	FILTER	1
3	111021	SRK - 167 KIT (ADJ. LINK ASSEMBLY)	1
4	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	-----	DECAL (OPERATING)	1



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Figure 2-25: Suspension Hanger RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)	
	102364	SUSPENSION, ADJ. RLU-228-5.5 (INCL ITEMS 1-19)	
	102361	SUSPENSION, BEAM. RLU-228 (INCL ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	905-57-129	AIR SPRING ASSEMBLY (102363)	2
	111016	AIR SPRING ASSEMBLY (102364)	2
3	900 45 040	SHOCK (102363)	2
	111017	SHOCK (102364)	2
4	90508009	ALIGN BUSH ASSEMBLY	2
5	129006	ALIGN BLOCK (900 08 186)	2
6	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	HEX NUT, 1/2-13	4
9	1-861-010034-13	LOCK WASHER, 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934 00 492	LOCK NUT, 3/4-10	2
12	111022	3/4-10 SQUARE NUT	2
13	111008	LOCK NUT 1-1/8-7	2
14	111018	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	-----	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	-----	LITERATURE SPEC (NOT SHOWN)	1
17	-----	LITERATURE FORM 864 (NOT SHOWN)	1
18	-----	LITERATURE LABEL (NOT SHOWN)	1
19	-----	LITERATURE LABEL (NOT SHOWN)	1
19A	111019	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	900-08-139	RUBBER BUSHING (FRONT PIVOT)	2
23	111011	RUBBER BUSHING (AXLE CONNECTION)	4
24	111012	AXLE ADAPTER ASSEMBLY	2
25	111014	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	900-25-288	SAFETY STRAP	2
28	934-00-506	LOCK NUT 1-1/8-7	4
29	109533	ALIGNMENT BLOCK KIT	1
30	126900	BRACKET BOTTOM SHOCK (RLU-228)	1
31	141708	WIRE ROPE STRAP KIT RLU228-3.5	1
	127708	WIRE ROPE STRAP KIT RLU228-5.5	1

NOTE: QUANTITIES LISTED ARE PER AXLE.

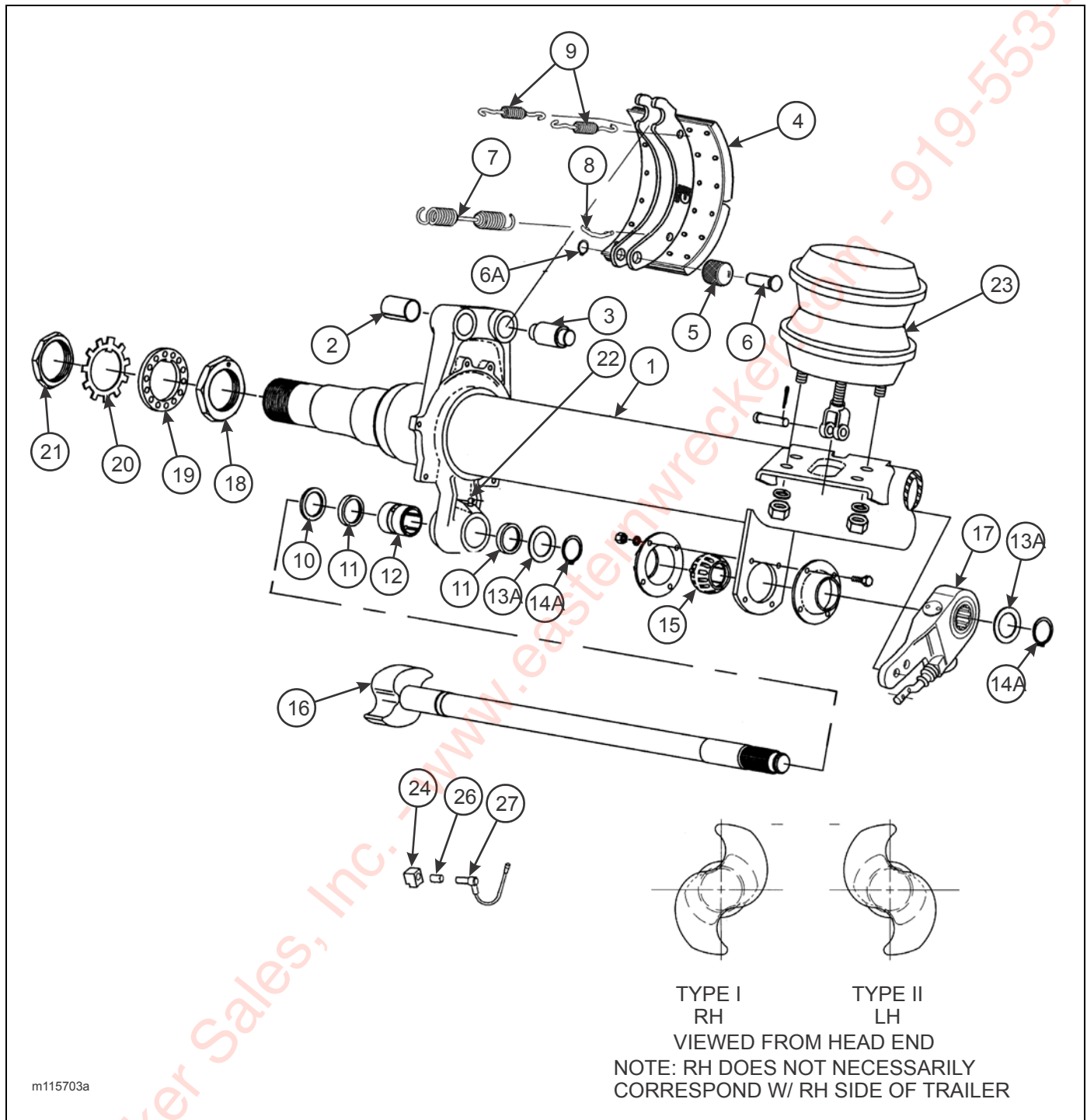


Figure 2-26: Axle and Brake Assembly (12-1/4 x 7-1/2")

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115703		AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BRK (25K)	
	115704		AXLE 77 12.25 X 7.5 SPRING BRAKE (25K)	
	115708		AXLE 70-1/2, 12-1/4 X 7-1/2 SRVC BRK (25K)	
	115709		AXLE 77 12.25 X 7.5 SERVICE BRAKE (25K)	
	136202		AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BRK (25K)	

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	138197		AXLE 70-1/2, 12-1/4 X 7-1/2 SRVC BRK (25K)	
	138203		AXLE 77 12.25 X 7.5 SPRING BRAKE (25K)	
	138198		AXLE 77 12.25 X 7.5 SERVICE BRAKE (25K)	
	**K71-460-00	**K71-460-00	BRAKE SHOE HARDWARE KIT (ITEMS 2, 3, 5, 6, 6A, 7, & 8)	
2**	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	-----	056-017-00	PIN, ANCHOR	4
4	040-320-01	040-320-01	SHOE AND LINING ASSEMBLY	4
4A	-----	041-060-01	LINING - BRAKE BLOCK CAM	2
4B	-----	041-057-01	LINING - BRAKE BLOCK ANCHOR	4
	-----	K71-133-00	BRAKE BLOCK KIT	4
5**	-----	014-057-00	ROLLER	4
6**	-----	056-010-00	RETAINER, ROLLER PIN	8
6A**	-----	069-018-00	RETAINER RING	8
7**	-----	046-092-00	SPRING, SHOE RETRACTOR	2
8**	056-018-00	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	046-097-00	KEEPER SPRING	4
	***K71-101-00	**K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
10***	005-074-00	005-074-00	D" WASHER - CAMSHAFT	2
11***	010-052-00	010-052-00	SEAL GREASE	4
12***	-----	014-056-00	BUSHING CAMSHAFT SPIDER	2
13A***	-----	005-134-00	WASHER CAMSHAFT END	2
14A***	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15***	-----	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-188-03	034-188-03	CAMSHAFT, 22-5/16" LH	1
	034-189-03	034-189-03	CAMSHAFT, 22-5/16" RH	1
	136991	034-188-05	CAMSHAFT, 23-3/8" LH	1
	136992	034-189-05	CAMSHAFT, 23-3/8" RH	1
17	156655	055-040-99	SLACK ADJUSTER, AUTOMATIC	2
18	006-114-00	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
22***	-----	061-006-00	FITTING, GREASE 45°	2
23	034-058-07	034-058-07	AIR CHAMBER, SPRING BRAKE	2
	034-057-07	034-057-07	AIR CHAMBER, SERVICE BRAKE	2
24	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	139287	094-007-00	ABS SENSOR, 90	2

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

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

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

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 2-54

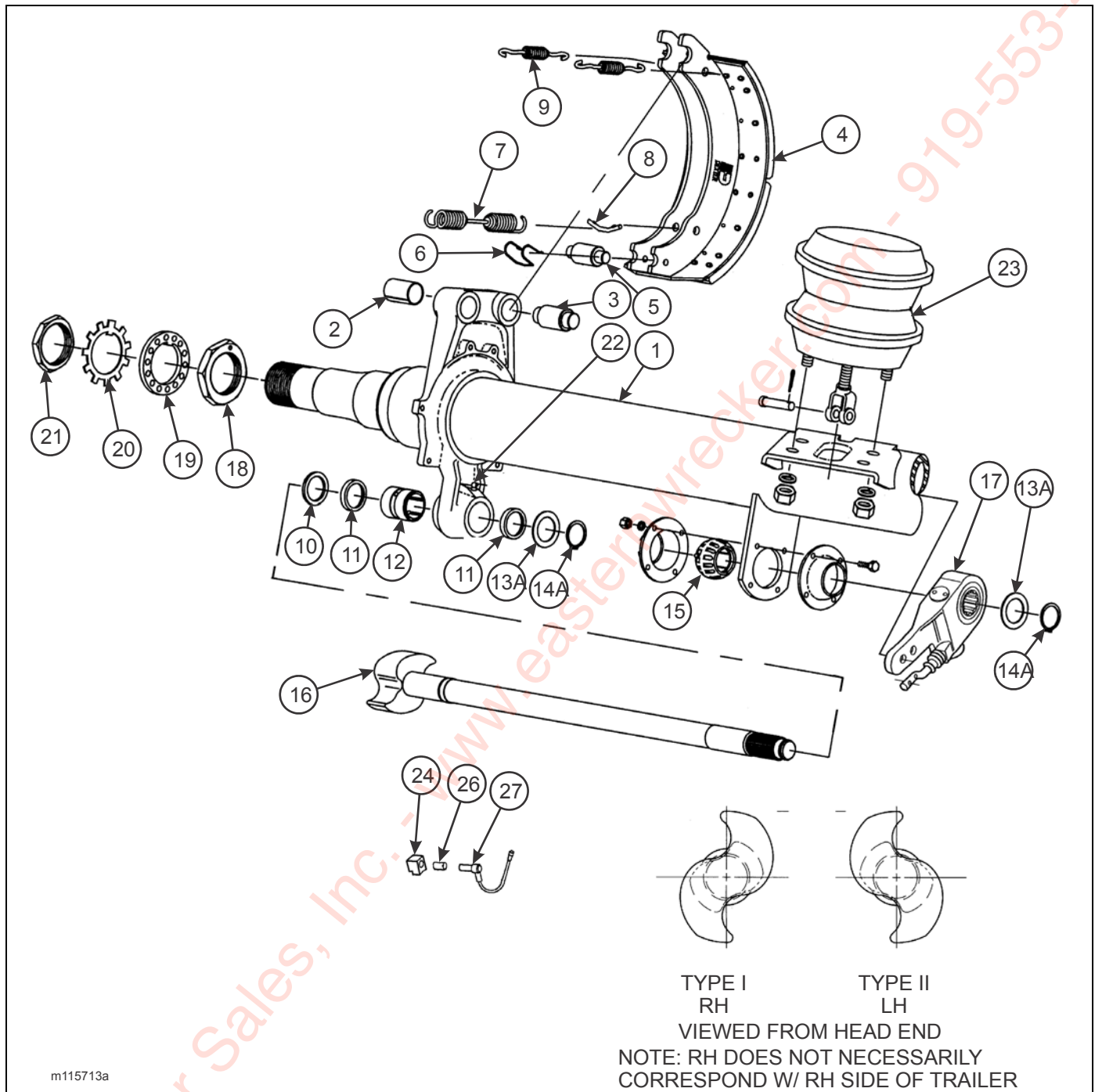


Figure 2-27: Axle and Brake Assembly (16-1/2" x 7")

AXLE AND BRAKE ITEMS (DEXTER) (16-1/2" x 7")

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115713		AXLE 69, 16-1/2 X 7 SPRING BRAKE (25K)	
	115719		AXLE 69, 16-1/2 X 7 SERVICE BRAKE (25K)	
	115715		AXLE 75 16.5 X 7 SPRING BRAKE (25K)	
	115720		AXLE 75 16.5 X 7 SERVICE BRAKE (25K)	
	138203		AXLE 69 16.5 X 7 SPRING BRAKE (25K)	
	138958		AXLE 69 16.5 X 7 SERVICE BRAKE(25K)	
	138955		AXLE 75 16.5 X 7 SPRING BRAKE (25K)	

AXLE AND BRAKE ITEMS (DEXTER) (16-1/2" x 7")

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	138959		AXLE 75 16.5 X 7 SERVICE BRAKE (25K)	
1A*	----- **K71-136-00	D-2H16 **K71-136-00	BEAM W/ BRACKETS BRAKE SHOE HARDWARE KIT (ITEMS 2, 3, 5, 6, 7, 8, & 9)	1
2**	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
3**	-----	056-017-00	PIN, ANCHOR	4
4	040-180-00	040-180-00	SHOE AND LINING ASSEMBLY	4
4A	-----	041-058-01	LINING - BRAKE BLOCK CAM	2
4B	-----	041-059-01	LINING - BRAKE BLOCK ANCHOR	4
	-----	K71-138-00	BRAKE BLOCK KIT	4
5**	014-065-00	014-065-00	ROLLER	4
6**	071-122-00	071-122-00	RETAINER, ROLLER	4
7**	046-096-00	046-096-00	SPRING, SHOE RETRACTOR	2
8**	056-018-00	056-018-00	RETAINER PIN RETRACTOR SPRING	4
9**	046-097-00	046-097-00	KEEPER SPRING	4
	-----	***K71-135-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
10***	005-096-00	005-096-00	WASHER CAMSHAFT	2
11***	010-052-00	010-052-00	SEAL GREASE	4
12***	-----	014-056-00	BUSHING CAMSHAFT SPIDER	2
13A***	-----	005-134-00	WASHER CAMSHAFT END	2
14A***	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15***	-----	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-192-05	034-192-05	CAMSHAFT, 22-5/8" LH	1
	034-193-05	034-193-05	CAMSHAFT, 22-5/8" RH	1
	137461	034-192-08	CAMSHAFT, 25" LH	1
	137485	034-193-08	CAMSHAFT, 25" RH	1
17	139383	055-040-98	SLACK ADJUSTER, AUTOMATIC)	2
18	006-114-00	006-114-00	NUT, INNER SPINDLE	2
19	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
20	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
21	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
22***	-----	061-006-00	FITTING, GREASE 45°	2
23	034-058-01	034-058-01	AIR CHAMBER, SPRING BRAKE	4
	034-057-01	034-057-01	AIR CHAMBER, SERVICE BRAKE	2
24	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	139287	097-007-00	ABS SENSOR, 90	2

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

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

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

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 2-54



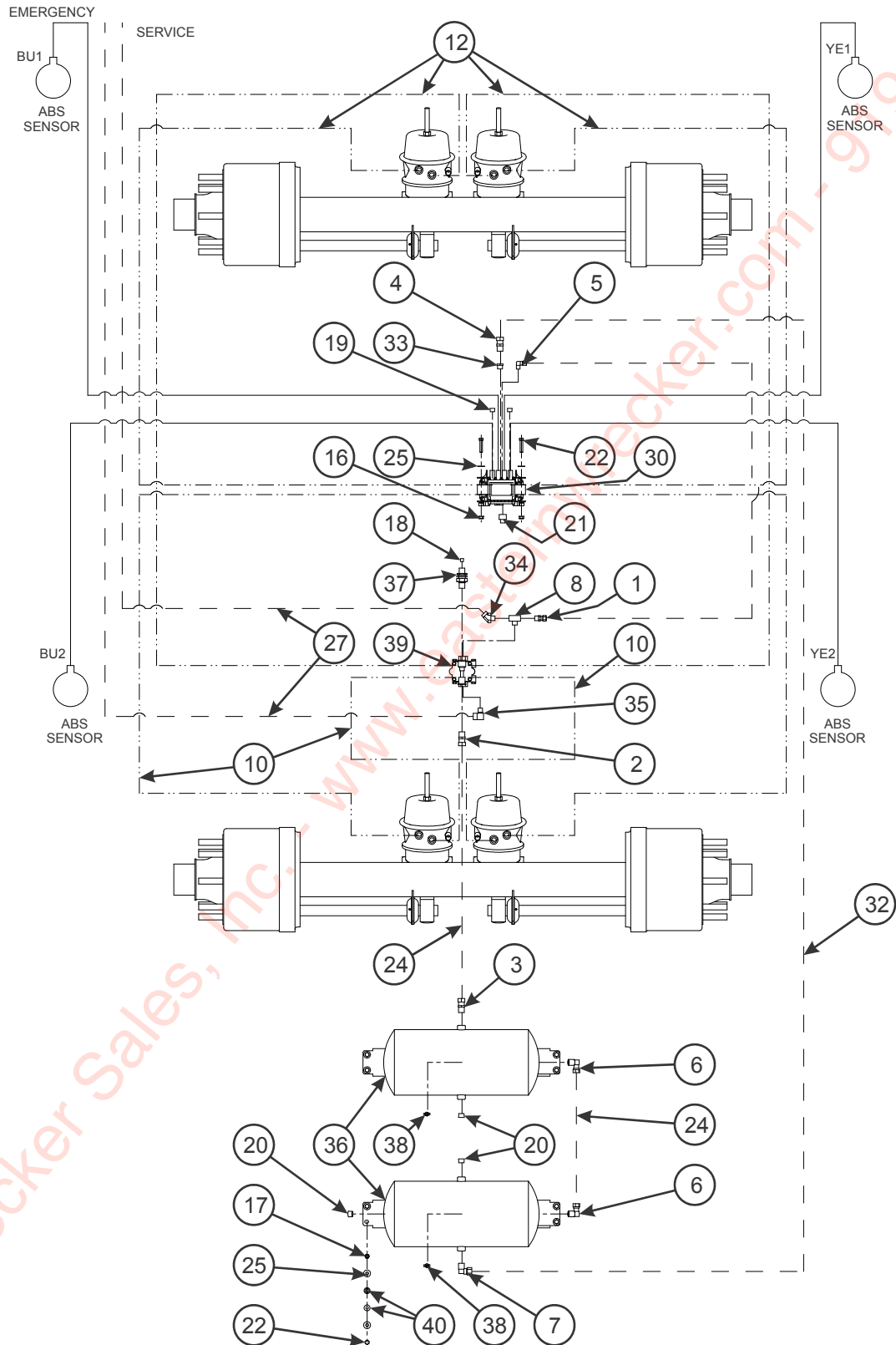
huboabs2

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	63680	OUTBOARD MOUNTED BRAKE DRUM (12-1/4" x 7-1/2")	1
	110976	OUTBOARD MOUNTED BRAKE DRUM (16-1/2" x 7")	
6	112492	HUB IRON (8 BOLT) 100 TH TONER RING (12-1/4" x 7-1/2")	1
	110975	HUB IRON (8 BOLT) 100 TH TONER RING (16-1/2" x 7")	1
7	179933	NUT, HEX M22 X 1.5	8
9	113536	STUD	8
10	4009	CAP HUB	1
11	3067	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER, SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW, HEX HEAD CAP 5/16-18 X 3/4 GR5	6
15	100402	WHEEL, ALUMINUM PILOT MOUNT 17.5 X 6.75	1
	3-870-010097	WHEEL, DISC PILOT MOUNT 17.5 X 6.75	1
	112047	WHEEL, ALUMINUM PILOT 17.5 X 6.75 MACH (NOT SHOWN)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C (NOT SHOWN)	1
17	1-843-010014	VALVE, EXTENSION, STEM 3" (NOT SHOWN)	1
18	*	ABS TONE RING	1
19	**114619	WHEEL GUARD 8 HOLE 275 MM BC (NOT SHOWN)(USED W/ ALUMINUM WHEELS)	
	**3-870-010107	WHEEL GUARD 10 HOLE 285.75MM BC (NOT SHOWN)	
20	142549	HUBODOMETER W/ BRACKET 10R17.5 TIRE (NOT SHOWN)	
	142551	HUBODOMETER W/ BRACKET 215/75R17.5 TIRE (NOT SHOWN)	
	142550	HUBODOMETER W/ BRACKET 235/75R17.5 TIRE (NOT SHOWN)	
	137108	HUBODOMETER W/ BRACKET 255/70R22.5 TIRE (NOT SHOWN)	

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

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



m109405

Figure 2-29: Spring Air Brake System w/ ABS (Tandem Axle)

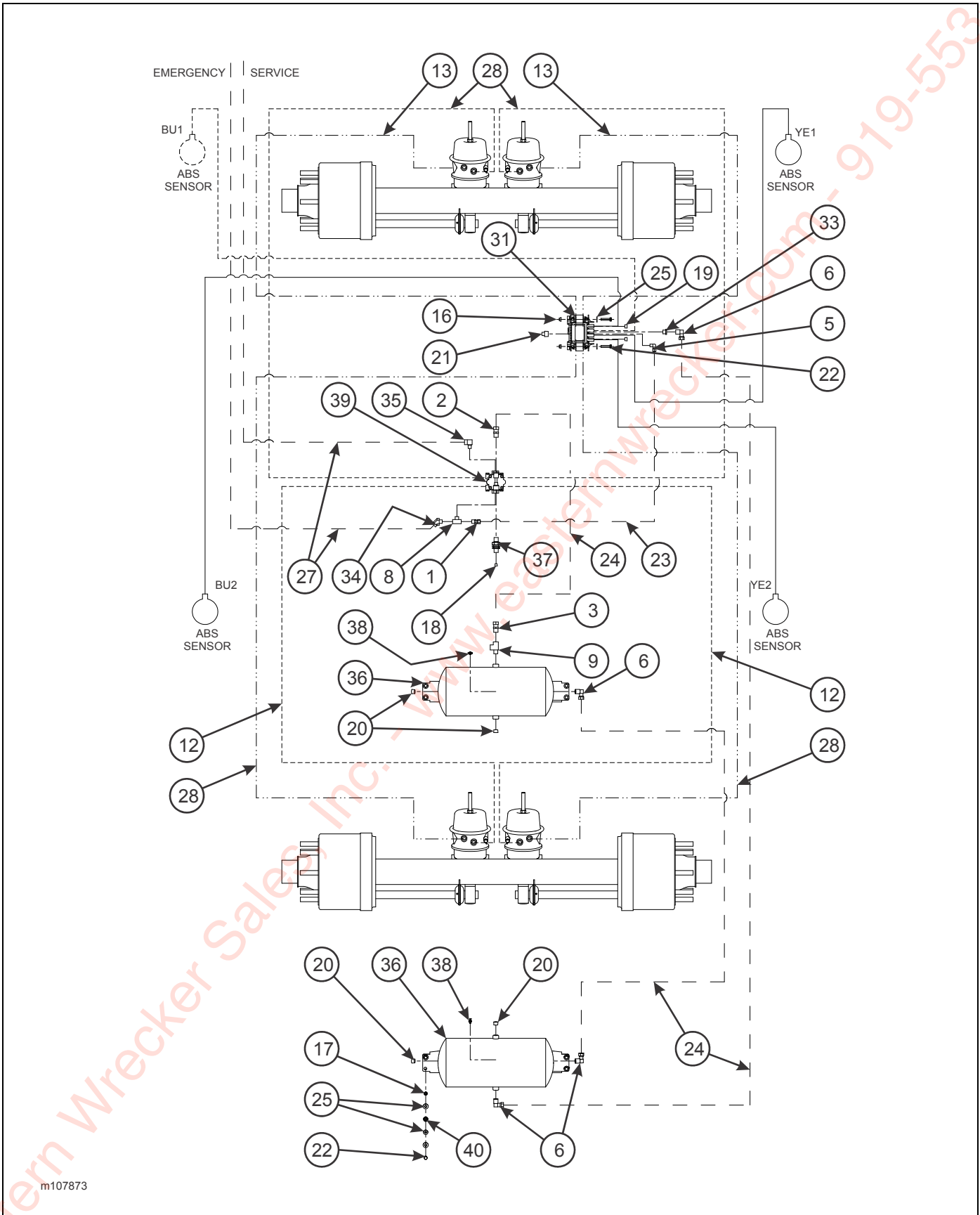
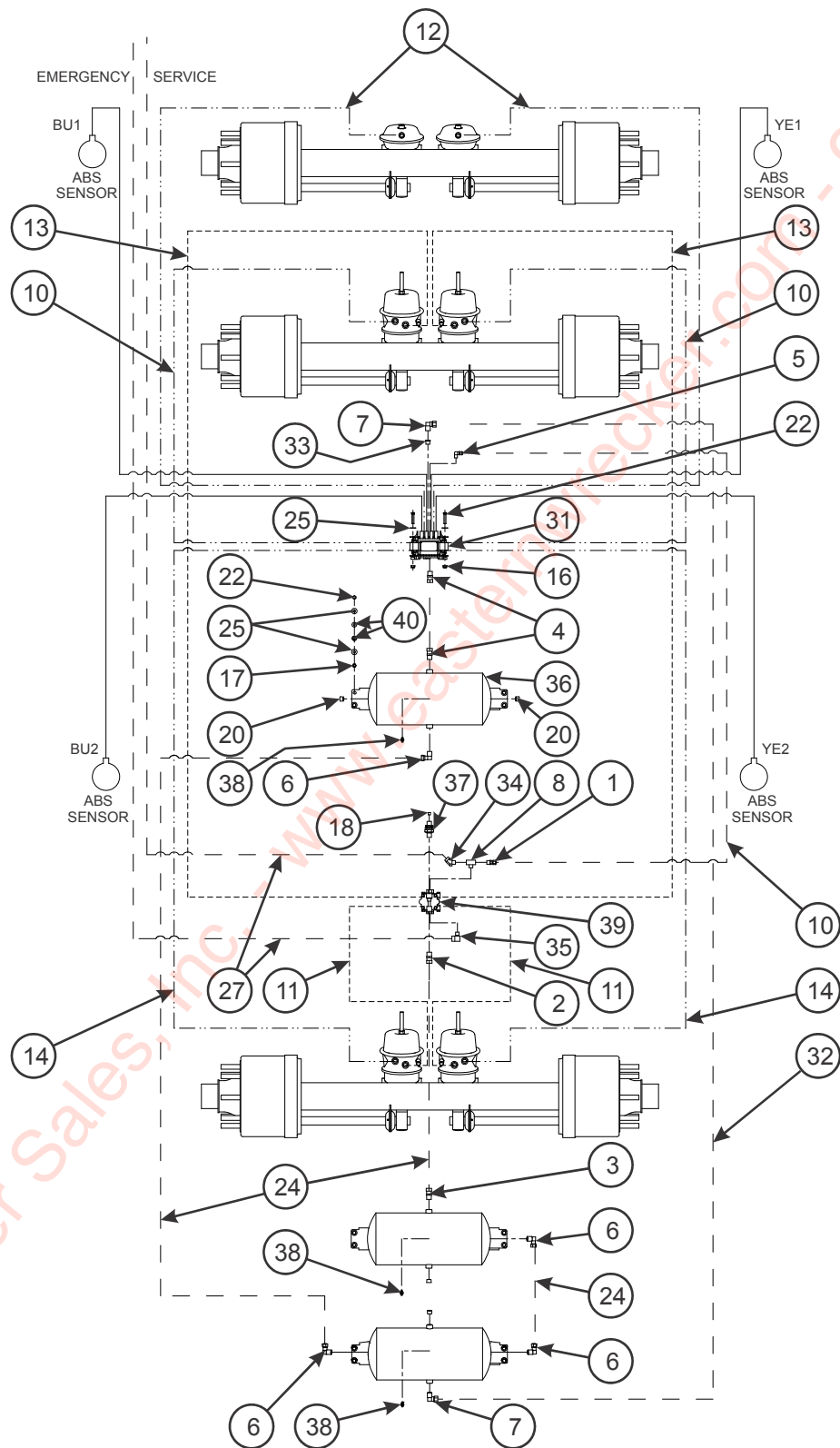


Figure 2-30: Spring Air Brake System w/ ABS (Spread Axle)

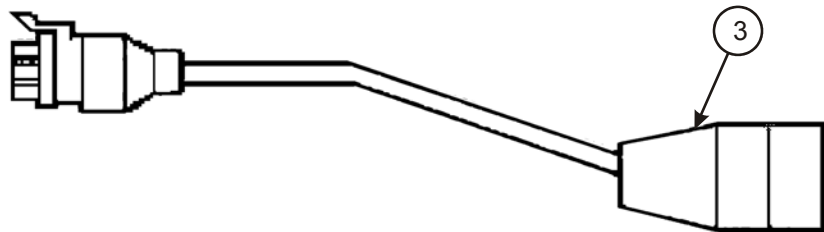
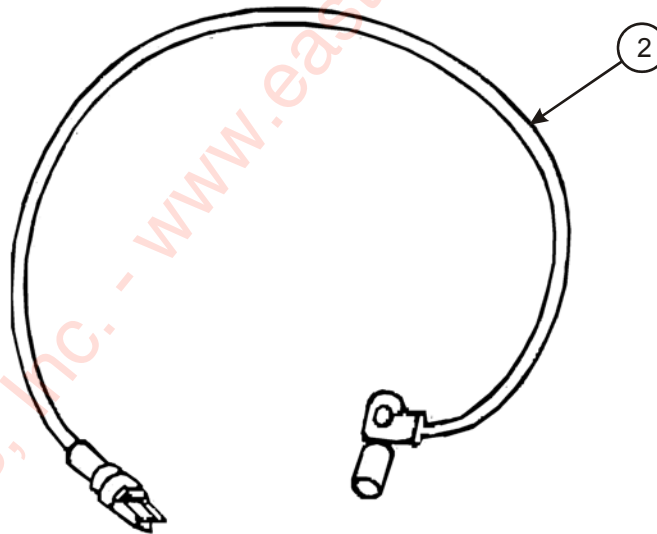
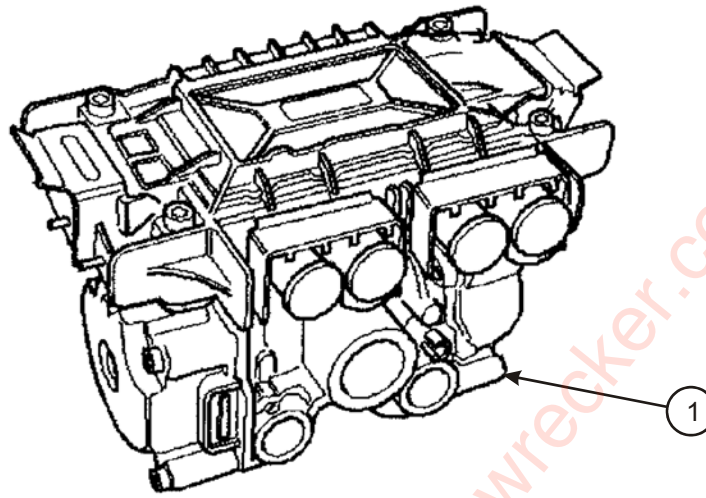


ma103816

Figure 2-31: 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 2-60)	1	--	--
31	114586	BRAKE KIT, ABS 4S/2M (SEE PAGE 2-60)	--	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

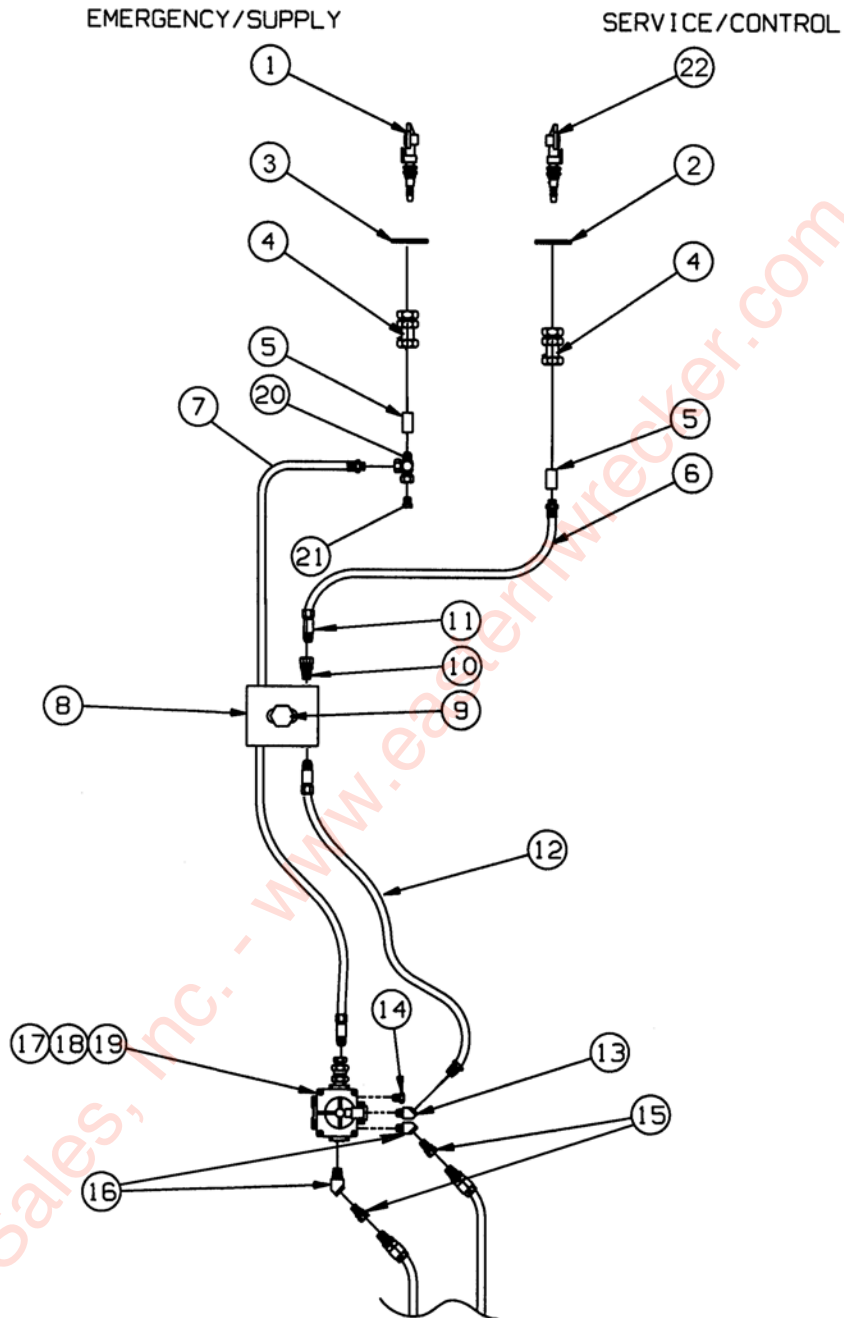


ma114584

Figure 2-32: Brake Kit, Rockwell ABS

ABS BRAKE KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	ABS BRAKE KIT 4S/2M	
	114586	ABS BRAKE KIT 4S/2M-TRI/SPRD	
1	114588	ECU/VALVE ASSEMBLY (114584 & 114586)	1
2	101848	SENSOR EXTENSION CABLE (6 FT) (114584)	4
	103861	SENSOR EXTENSION CABLE (10 FT) (114586)	4
3	147464	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1

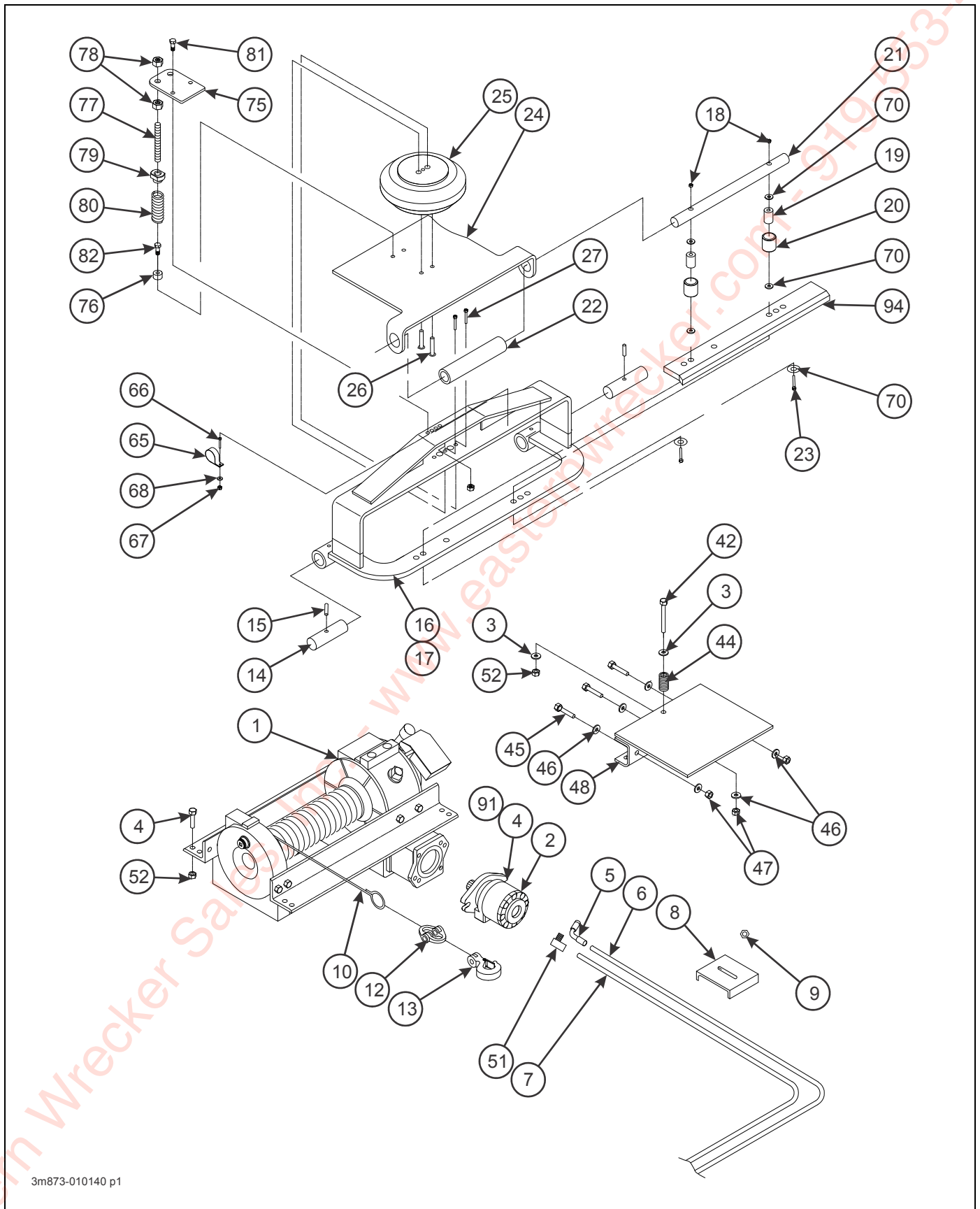


128m103798

Figure 2-33: 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
	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



3m873-010140 p1

Figure 2-34: Winch Installation (1 of 2)

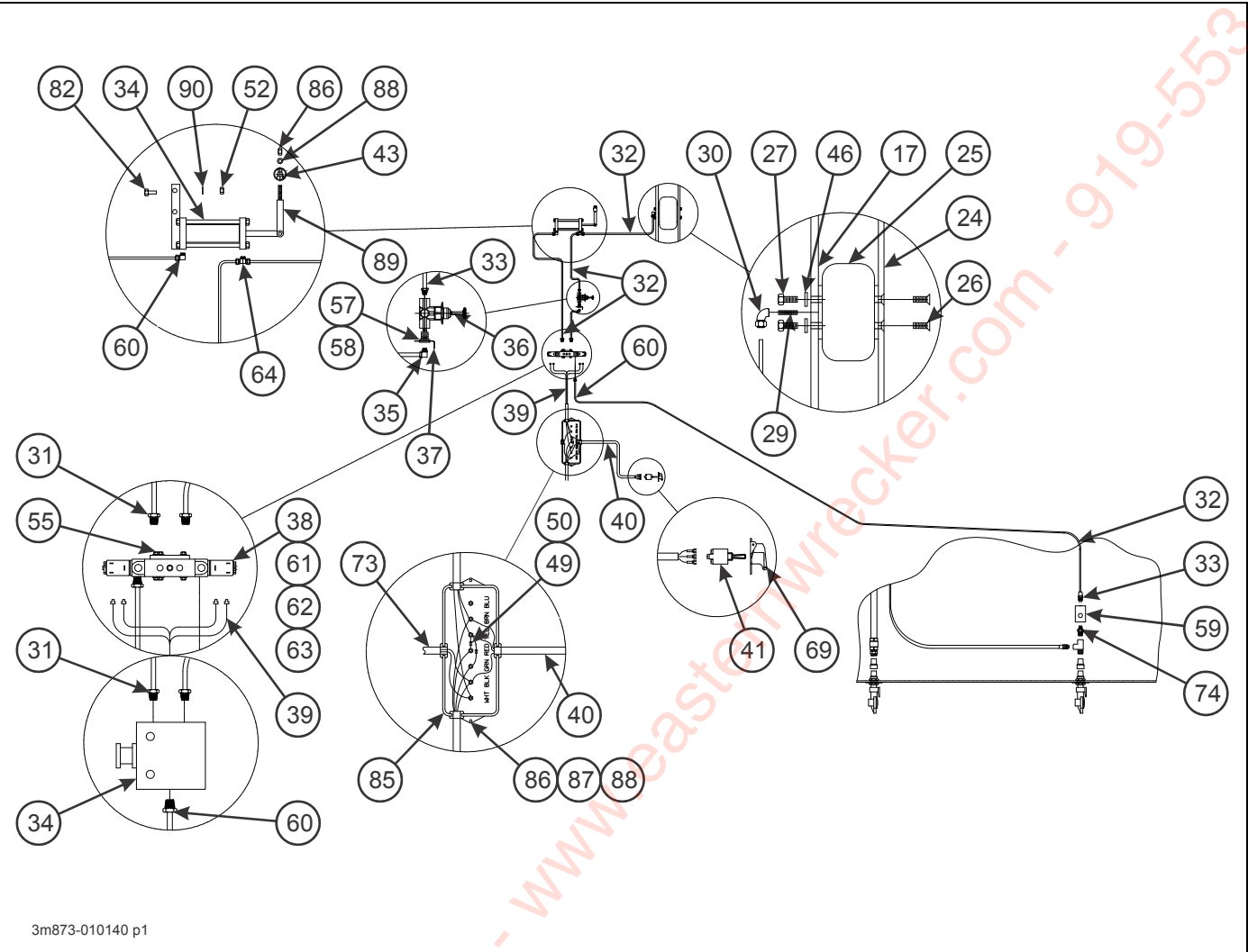


Figure 2-35: Winch Installation (2 of 2)

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010140	WINCH INSTALLATION 600-20K	REF
	3-873-010144	WINCH, INSTALLATION 600-12K	REF
	123210	WINCH, 20K GUIDE AIR TEN/REL	
1	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 2-71)	1
	3-873-010122	WINCH ASSEMBLY 12K (SEE PAGE 2-68)	1
2	3-481-010007	MOTOR HYDRAULIC (20K) (SEE PAGE 2-76)	1
	3-481-010006	MOTOR HYDRAULIC (12K) (SEE PAGE 2-76)	1
3	1-861-010032-15	WASHER, FLAT 1/2	2
4	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	6
5	202702-10-8S	ADAPTER	1
6	1-397-010301170	HOSE ASSEMBLY	1
7	1-397-010302172	HOSE ASSEMBLY	1
8	2-181-010001	HOSE CLAMP	4
9	1-510-010001	NUT FLANGE LOCK 3/8-16	4
10	3-155-010017-4	CABLE (12K) 85' W/ LOOP	1
	3-155-010018-6	CABLE (20K) 85' W/ LOOP	1

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
11	3-174-010038	LINK	1
12	3-174-010039036	CHAIN (NOT SHOWN)	1
13	7HCGHT500	HOOK	1
14	3-557-010474	PIN, PIVOT	**2
	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
	3-642-010150	ROD, ROLLER TOP (12K)	**1
22	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	**2
	3-831-010151	TUBE, ROLLER TOP (12K)	**1
23	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	**2
24	102187	WINCH TENSIONER PLATE (20K)	*1
	3-873-010145	WINCH TENSIONER PLATE (12K)	*1
25	3-720-010042	SPRING, AIR 6-1/2	*1
26	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	*2
27	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	*2
29	1-297-010031-02	FITTING, BRASS PIPE 1/4 X 1-1/2	*1
30	1-297-010032-03	FITTING, AIR 90	*1
31	1-297-010007-04	CONNECTOR PIPE TO TUBE	***4
32	1-833-010001	NYLON TUBING 1/4 OD	***28FT
33	1-297-010007-05	FITTING, AIR	*2
34	107368	WINCH AIR SHIFT CYL (20K)(SEE PAGE 2-74)	***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
	3-873-010124	WINCH TENSIONER WELDMENT (12K)	1
49	2-272-010109	ZENOR DIODE (20K)	2
50	3-272-010018	HEAT SHRINK INSULATOR (20K)	****2
51	2062-10-8S	ADAPTER, 90	****1
52	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	19
53	119621	ANCHOR CABLE GUIDE WINCH (NOT SHOWN)	2
55	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
57	1-297-010022-02	FITTING, AIR ANCHOR	1

WINCH INSTALLATION (BRADEN)

ITEM	PART NO.	DESCRIPTION	QTY.
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	VALVE AND FILTER PRESSURE	*1,2
	167692	FILTER	*1,2
60	1-297-010008-05	FITTING, AIR 90	*3
61	1-654-010024014	SCREW, MACH SLOT 6-32 X 1-1/2	*3
62	1-861-010032-01	WASHER, FLAT #6	*3
63	1-512-010003-02	NUT, HEX LOCK 6-32	*1
64	1-297-010015-02	FITTING, AIR BRANCH TEE (20K)	REF
65	239-9076-3	SUPPORT CLAMP	*1
	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	107369	LEVER WINCH FREE SPOOL	***1
90	1-861-010032-14	WASHER, FLAT 1/2	***2
91	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
92	1-560-010002-01	PLUG, 1/8 (12K) (NOT SHOWN)	1
93	F-100852	CABLE GUIDE PIVOT 12K (NOT SHOWN)	1

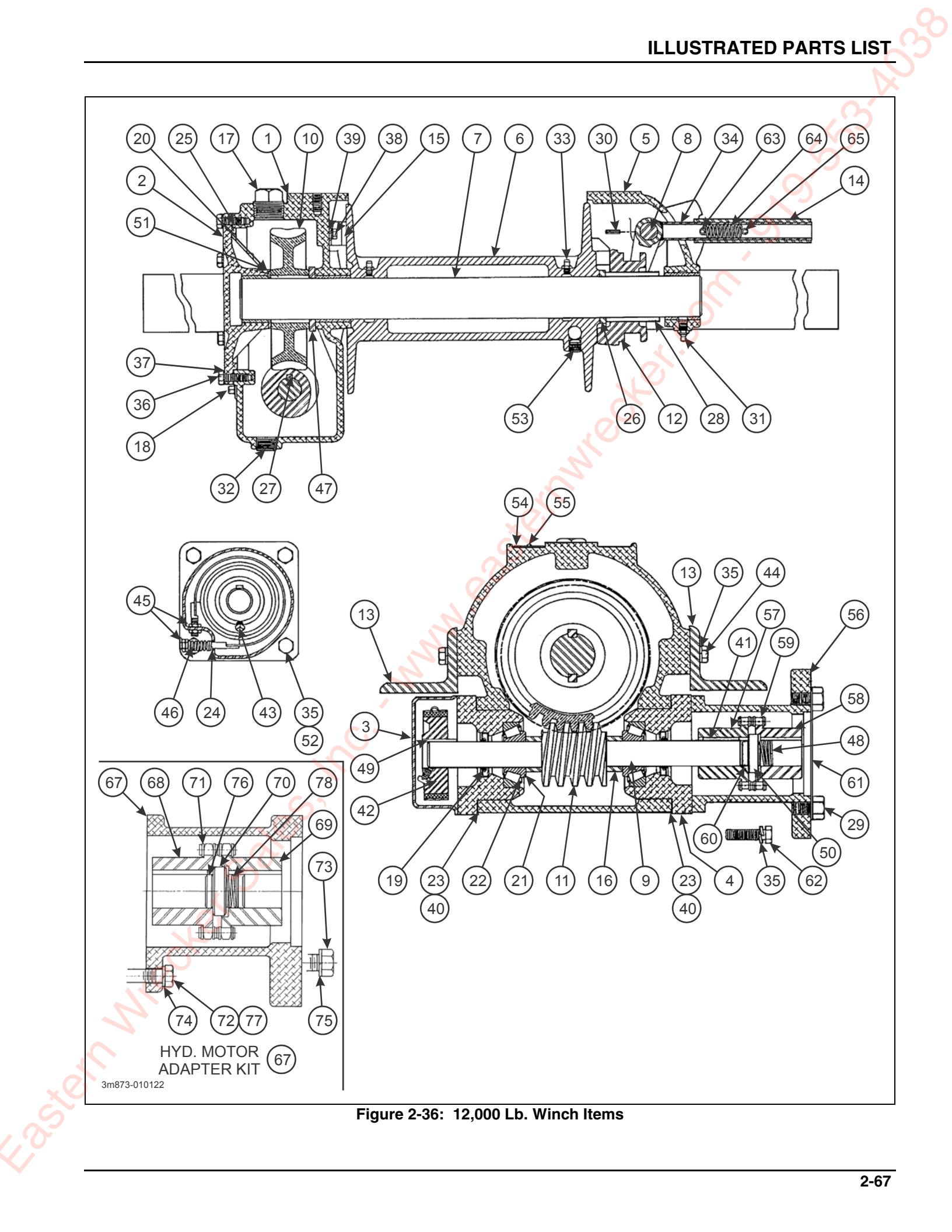
NOTES:

* - FOR AIR TENSION OPTION

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

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

****- FOR SPRING TENSION OPTION



ILLUSTRATED PARTS LIST

Exploded view diagram of a 12,000 Lb. Winch assembly. The diagram includes a main side view, a top view of the drum, and a detail of the hydraulic motor adapter kit.

Parts List:

- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78

HYD. MOTOR ADAPTER KIT (67)

3m873-010122

Figure 2-36: 12,000 Lb. Winch Items

2-67

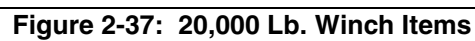
12,000# WINCH ITEMS (BRADEN)

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

12,000# WINCH ITEMS (BRADEN)

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

2-70

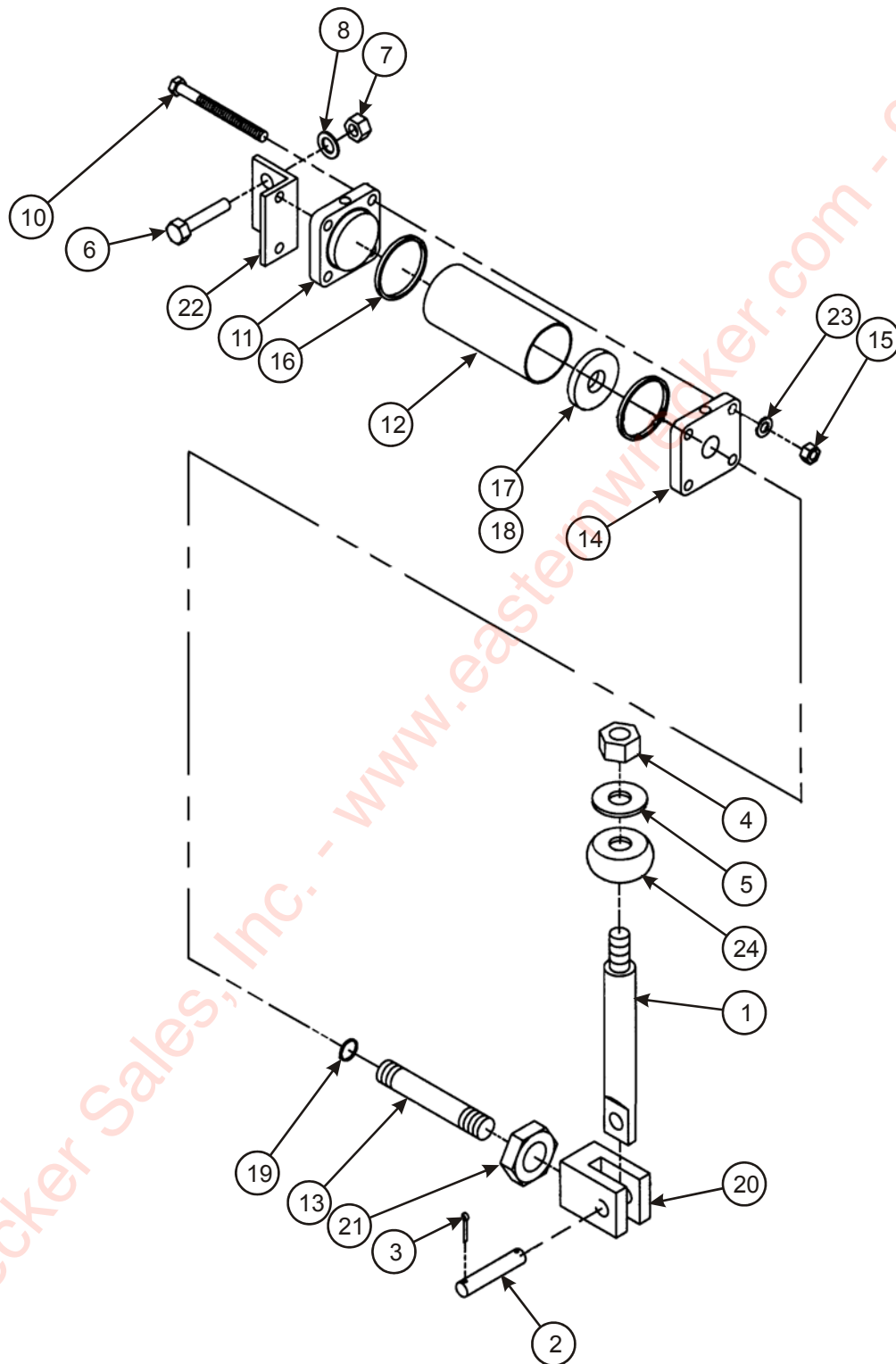


20,000# WINCH ITEMS (BRADEN)

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

20,000# WINCH ITEMS (BRADEN)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
56	----	13938	CAPSCREW	16
57	----	12781	WASHER, LOCK	8
58	----	21044	CAPSCREW	4
59	----	11025	WASHER, LOCK	3
60	----	22695	CAPSCREW	4
61	----	21964	CAPSCREW	6
62	12146	12146	PLUG, EXPANSION	A/R
63	13028	13028	ROLLPIN	A/R
64	11398	11398	SCREW, ADJUSTING	1
65	88005	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	11426	DISC, FRICTION	2
73	11791	11791	NUT, JAM	1
75	12767	12767	PLUG, EXPANSION	A/R
76	----	22729	CAPSCREW	2
77	----	23245	SAE PLATE-AMU7-16F (NOT SHOWN)	1
78	----	23310	PLATE, WARNING (NOT SHOWN)	1
79	----	11842	SCREW, DRIVE (NOT SHOWN)	4
80	139478	12228	SCREW, SET	1
90	----	11435	INSERT THREAD	8
91	----	11014	LOCKWASHER	1
92	----	22697	CAPSCREW (NOT SHOWN)	5
93	23144	23144	ADAPTER - MOTOR	1
94	23081	23081	COUPLING HALF-WINCH	1
95	----	23142	COUPLING HALF-MOTOR	1
96	23078	23078	SPACER - CONSTANT	1
97	13424	13424	ROLLER, CHAIN	1
98	----	22704	CAPSCREW	4
99	----	13413	CAPSCREW (NOT SHOWN)	4
100	----	18003	LOCKWASHER	4
101	----	11026	LOCKWASHER (NOT SHOWN)	4
102	----	23183	SPACER - VARIABLE	2
103	----	22703	CAPSCREW	4
104	----	23353	SPRING - SPACER	1
105	----	61344	HYDRAULIC MOTOR ADAPTER KIT, 20,000# WINCH (INCL ITEMS 106-117)	1
106	23144	23144	ADAPTER, MOTOR	1
107	23081	23081	COUPLING HALF, WINCH	1
108	110448	23142	COUPLING HALF, MOTOR	1
109	23078	23078	SPACER, CONSTANT	1
110	13424	13424	CHAIN ROLLER	1
111	----	----	CAPSCREW	4
112	----	----	CAPSCREW	4
113	----	27152	LOCKWASHER	4
114	----	11026	LOCKWASHER	4
115	110451	23183	SPACER	1
116	----	----	CAPSCREW	4
117	110452	23353	SPRING SPACER	1



3md873-010179

Figure 2-38: Winch Air Shift Cylinder

WINCH AIR SHIFT CYLINDER

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

pmotor2

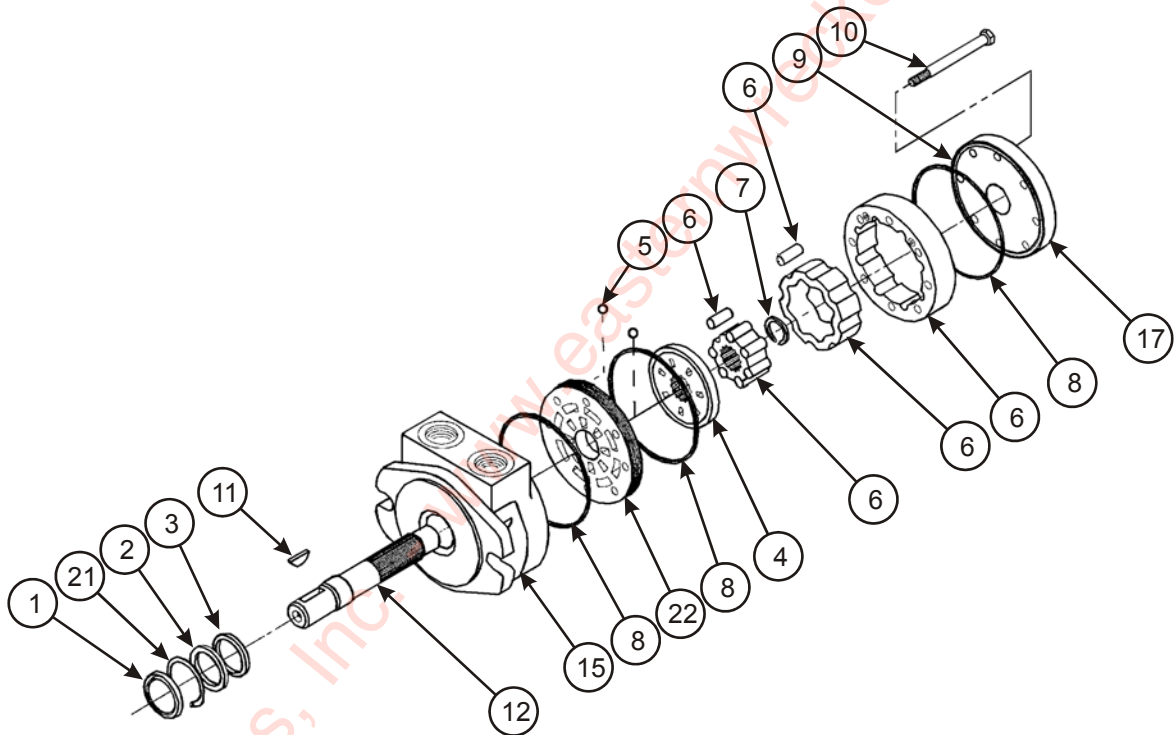
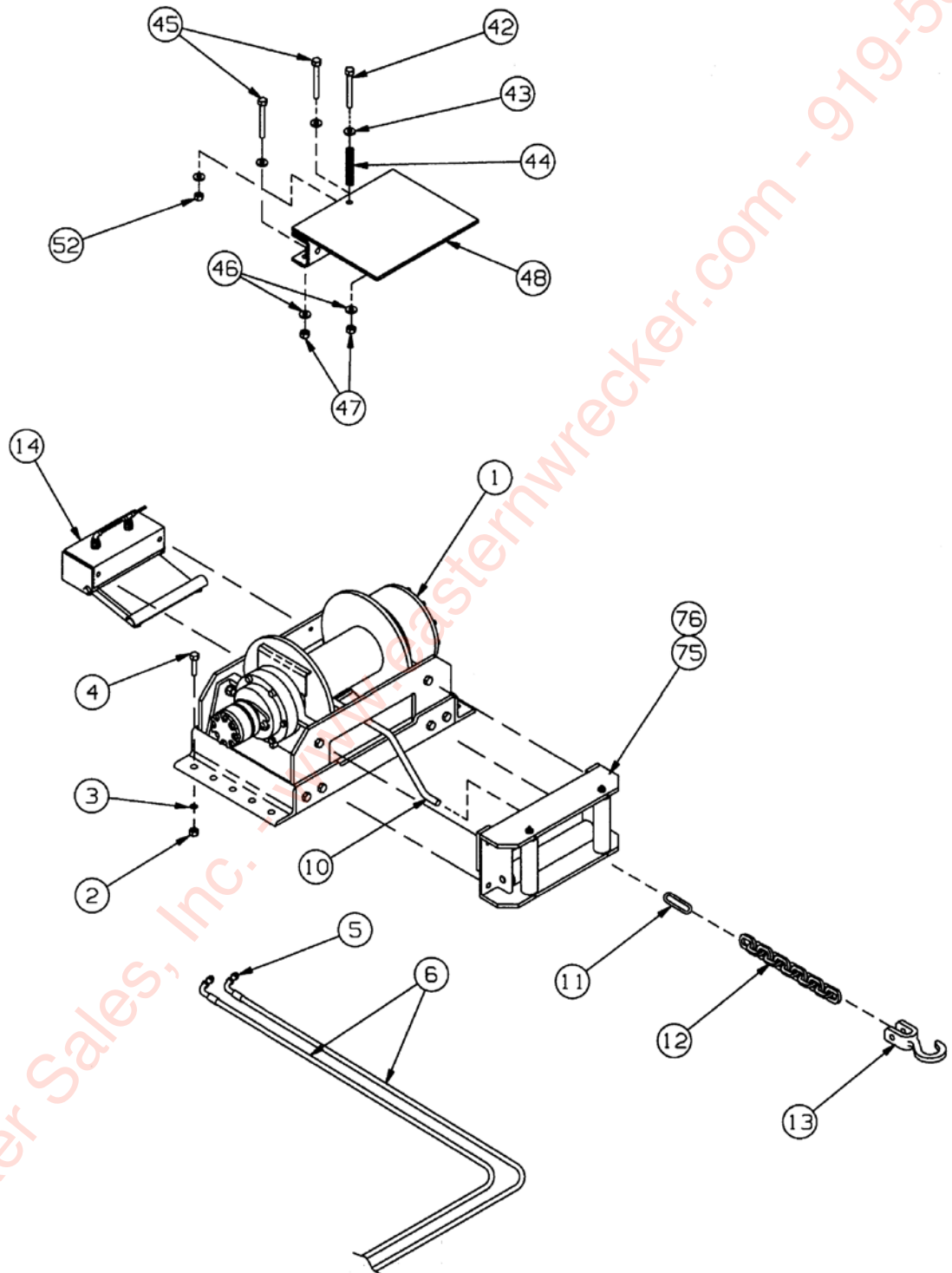


Figure 2-39: Winch Motor Assembly

WINCH MOTOR ASSEMBLY

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



3mc873-010170

Figure 2-40: 30K Upper Deck Winch Installation (1 of 2)

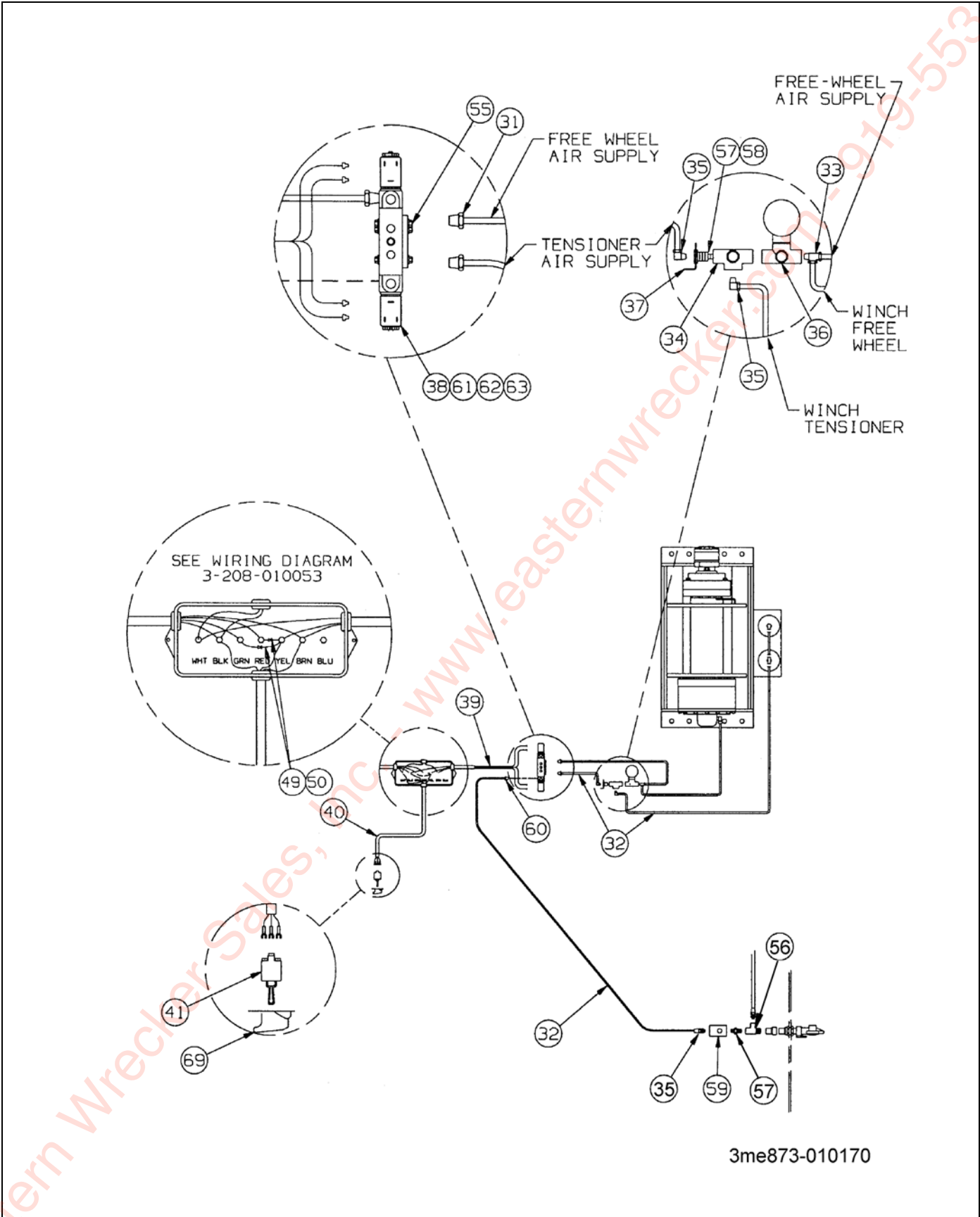


Figure 2-41: 30K Upper Deck Winch Installation (2 of 2)

30K UPPER DECK WINCH INSTALLATION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010170	WINCH INSTALLATION 600-30K UPPER DECK	REF
1	3-873-010173	WINCH 30K ITEMS (SEE PAGE 2-82)	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
	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 2-88)	*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	BREATHING, PNEUMATIC EXHAUST	***2
56	1-297-010015-09	FITTING AIR BR TEE	1
57	1-297-010022-02	FITTING, AIR ANCHOR	1
58	1-297-010020-02	FITTING, BRASS PIPE	1
59	905-54-107	BRAKE PROTECTION VALVE	***1
	167692	FILTER	***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 2-86)	*1
76	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	*4

30K UPPER DECK WINCH INSTALLATION (DP)

ITEM	PART NO.	DESCRIPTION	QTY.
------	----------	-------------	------

NOTES:

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

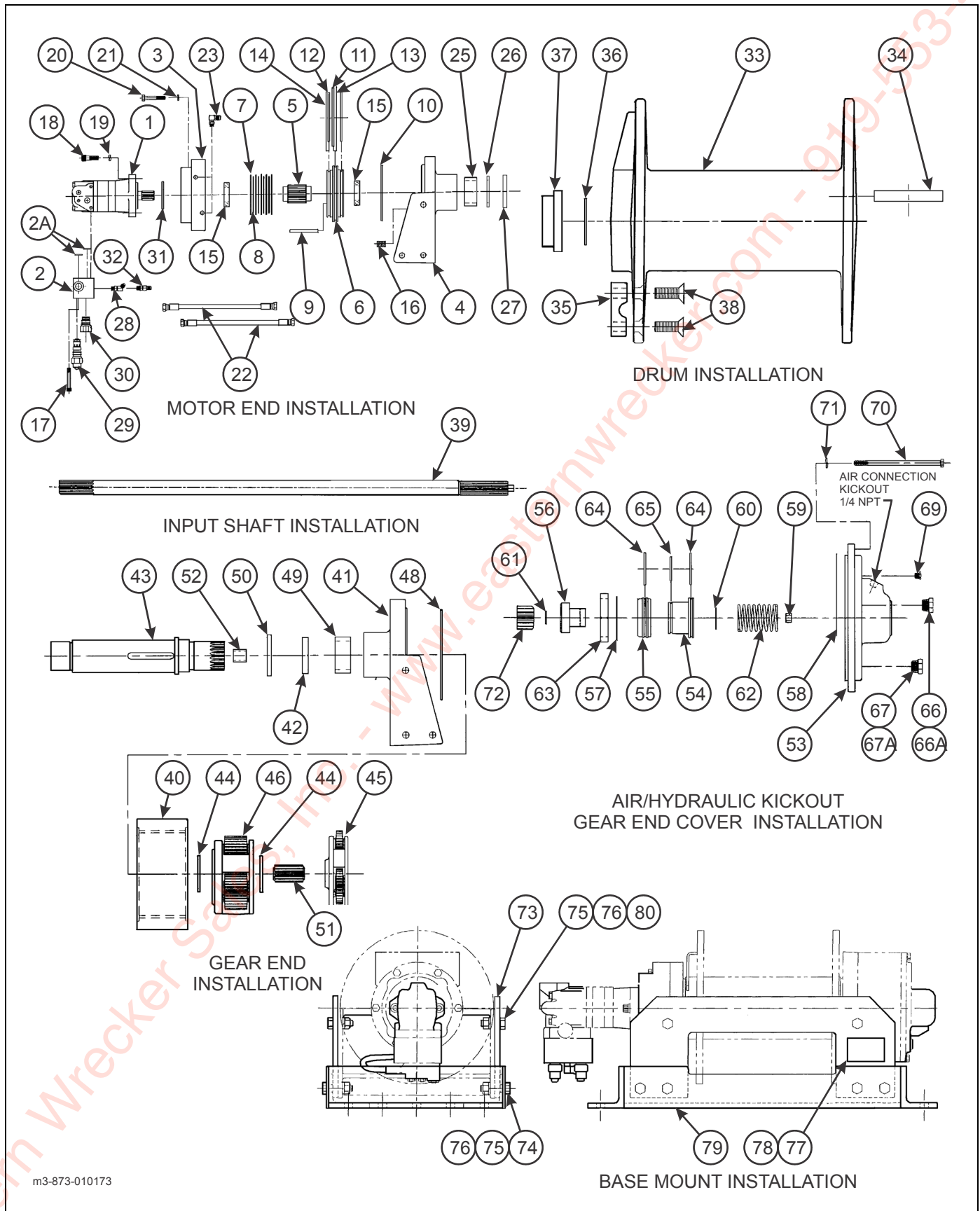


Figure 2-42: 30,000 Lb. Winch Items

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
	3-873-010173		WINCH 30K ITEMS	
MOTOR END INSTALLATION				
1	-----	73076	MOTOR, HYDRAULIC	1
2	137888	11604	VALVE, COUNTERBALANCE	1
2A	-----	9817	O-RING, 13/16 I.D. X 3/32 SECTION	2
3	-----	11535	BRAKE HOUSING	1
4	-----	13299	SUPPORT MOTOR END	1
5	-----	11750	SHAFT BRAKE	1
6	-----	11443	PISTON BRAKE	1
7	-----	11603	PLATE DISC FRICTION	10
8	-----	3159	PLATE DRIVE BRAKE	9
9	-----	3263	PIN DOWEL 5/16 DIA. X 3-1/2	2
10	137993	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	137994	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	137421	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16	2
13	-----	9854	RING, BACK-UP	1
14	137422	9852	RING, BACK-UP 5-3/8 I.D.	1
15	-----	81434	BEARING BALL 1-3/4 I.D.	2
16	-----	2319	SPRING COMPRESSION	12
17	-----	1345	CAP SCREW, SOCKET HEAD 3/8-16 X 2-1/2	2
18	-----	1143	CAP SCREW, SOCKET HEAD 1/2-13 X 1-1/2	2
19	-----	1144	WASHER, LOCK HI COLLAR 1/2	6
20	-----	1376	CAP SCREW, HEX HEAD 7/16 X 2-1/2	6
21	-----	1388	WASHER, LOCK 7/16	4
22	-----	75038	HOSE 1/4R1 X 12"	1
23	-----	76017	ADAPTER 90	1
24	-----	10708	TAG WARNING (NOT SHOWN)	1
25	-----	81454	BEARING -TORRINGTON	1
26	-----	13288	WASHER THRUST BRONZE	1
27	137880	9890	SEAL SHAFT	1
28	137641	76029	ADAPTER 45	
29	137883	3177	CARTRIDGE COUNTERBALANCE	1
30	137884	70035	PLUG ASSEMBLY - VALVE COUNTERBALANCE	2
31	137882	9880	O-RING 3 ID X 1/8 SECTION	1
32	-----	76027	ADAPTER STRAIGHT	
	137885	9400	DISC PLATE KIT (INCL ITEMS 7-8 & 16)	
	137886	9406	SEAL KIT (INCL ITEMS 10-14)	
DRUM INSTALLATION				
33	-----	13285	DRUM	1
34	-----	13293	KEY DRUM	2
35	137569	12518	CLIP CABLE THREADED	1
36	-----	9602	O-RING 2-5/8 ID X 1/8 W	1
37	-----	13286	SPACER	1
38	137570	1587	CAP SCREW, FLAT SKT HEAD 5/8-11 X 1-3/4	

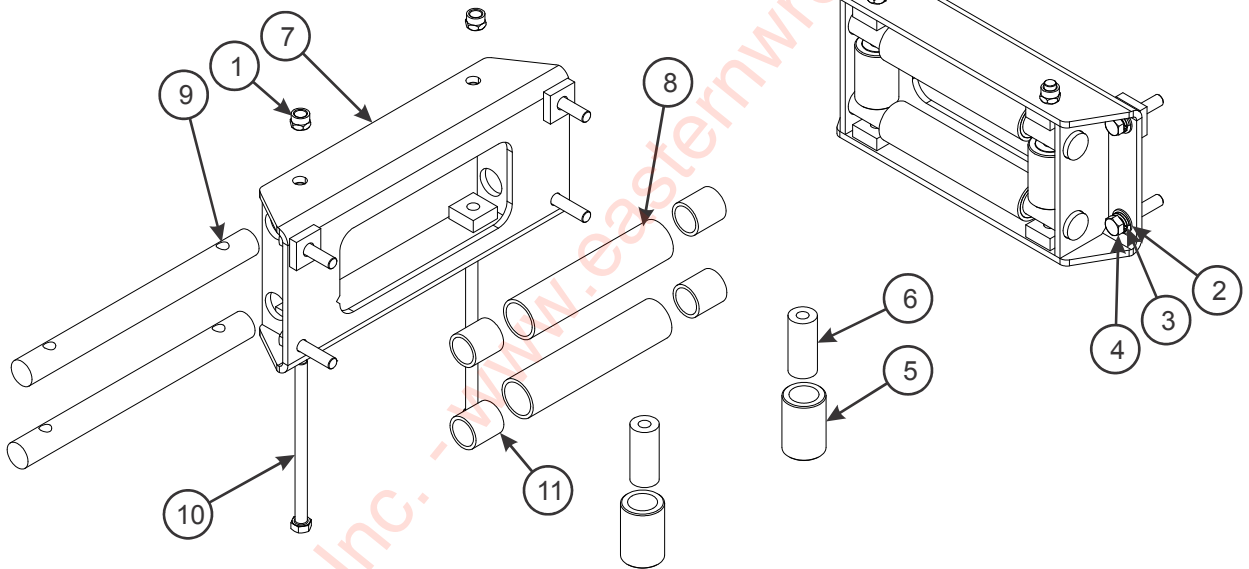
30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
INPUT SHAFT INSTALLATION				
39	----	13317	SHAFT INPUT	1
GEAR END INSTALLATION				
40	----	3126	GEAR RING	1
41	----	13300	SUPPORT GEAR END	1
42	----	13288	WASHER THRUST	1
43	----	13301	SHAFT OUTPUT	1
44	----	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16	2
45	----	12486	CARRIER ASSEMBLY PRIMARY	1
46	----	12516	CARRIER ASSEMBLY SECONDARY	1
47	----	10848	LABEL WARNING (NOT SHOWN)	1
48	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
49	----	81454	BEARING	1
50	137880	9890	SEAL SHAFT	1
51	----	13306	GEAR SUN	1
52	----	81608	BUSHING ID 1-1/4 OD X 1 LG	1
AIR/HYDRAULIC KICKOUT GEAR END COVER INSTALLATION				
53	----	13675	COVER GEAR END	1
54	----	13295	PISTON AKO B/C/D	1
55	----	13296	CYLINDER PISTON	1
56	----	13297	COUPLING DRIVE	1
57	----	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
58	137879	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
59	----	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
60	----	3303	RING RETAINING 1-1/4	1
61	----	3321	RING RETAINING RD SEC .805 I.D.	1
62	----	2309	SPRING COMPRESSION	1
63	----	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
64	137881	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
65	----	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
66	105967	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
66A	----	9992	O-RING .755 I.D. X .097 W 3-910	1
67	105954	76343	PLUG SKT HD O-RING MAG #10	1
67A	----	9992	O-RING .755 I.D. X .097 W 3-910	1
68	----	1157	CAPLUG #4 RED (NOT SHOWN)	1
69	105953	3059	RELIEF VENT	1
70	----	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
71	----	1395	WASHER LOCK 3/8	12
72	----	13235	GEAR SUN AKO	1
BASE MOUNT INSTALLATION				
73	----	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
74	----	1506	SCREW CAP HEX HEAD 5/8-11 X 2-1/2 GR5	12
75	----	1590	NUT HEX 5/8 - 11 GR2	12
76	----	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12

30,000# WINCH ITEMS (DP)

ITEM	PART NO.	REFERENCENO.	DESCRIPTION	QTY.
77	-----	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG	4
78	-----	10466	PLATE INFORMATION	1
79	-----	14073	BASE SUPPORT	
80	-----	1504	CAP SCREW, HEX HEAD 5/8-11 X 2 GR5	

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

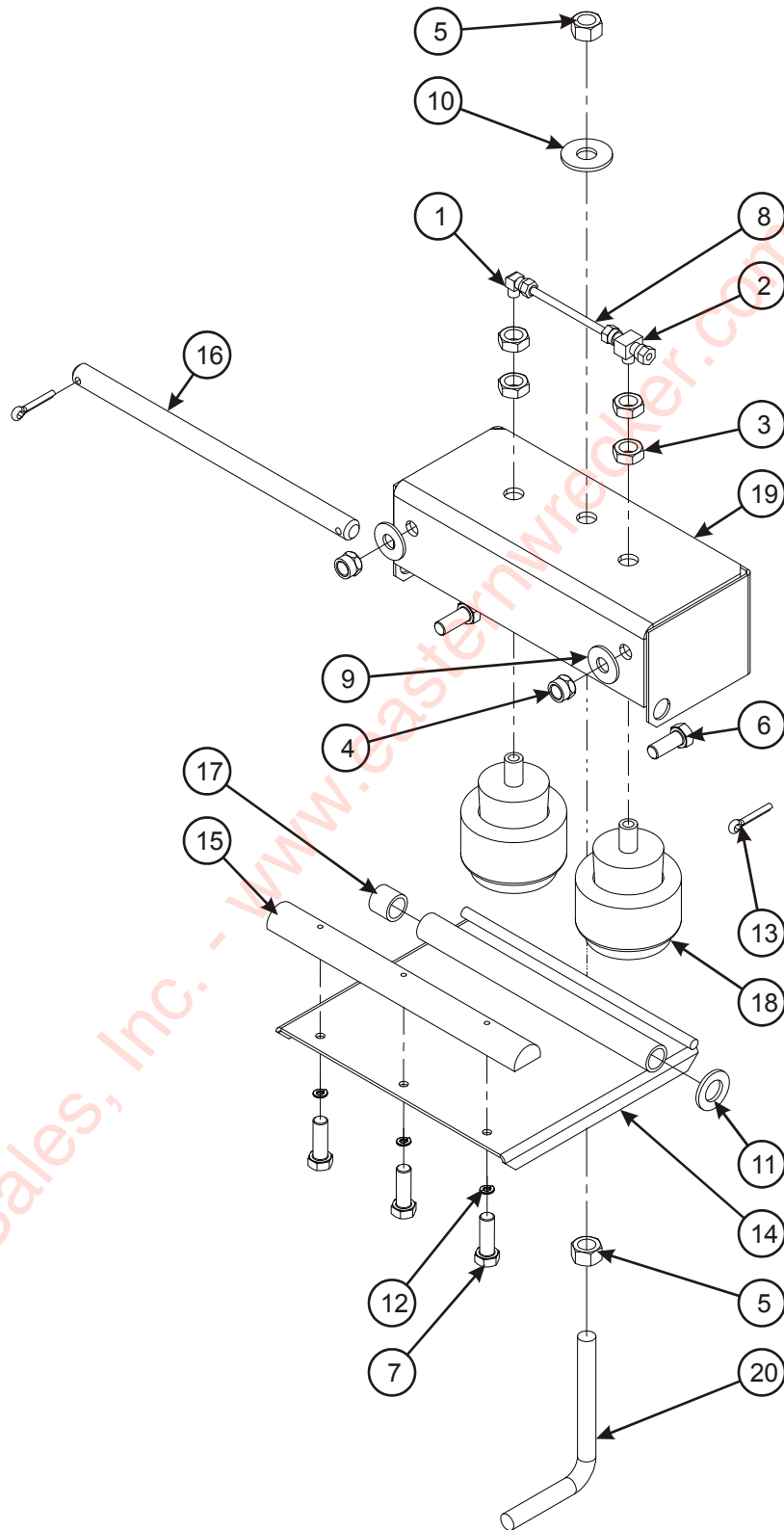


m122333

Figure 2-43: 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

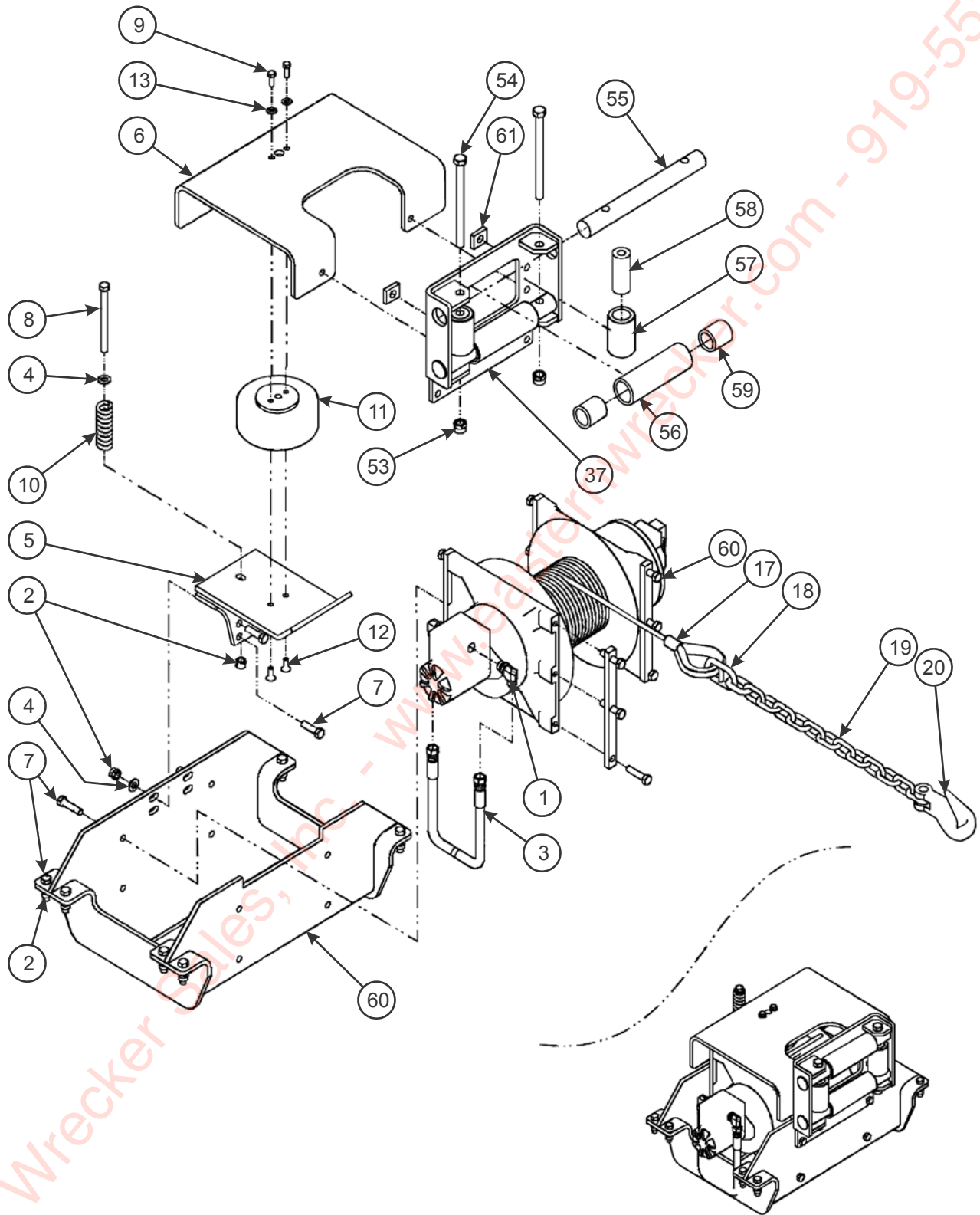


3m873-010172

Figure 2-44: 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



3m873-010140 p1

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

ILLUSTRATED PARTS LIST

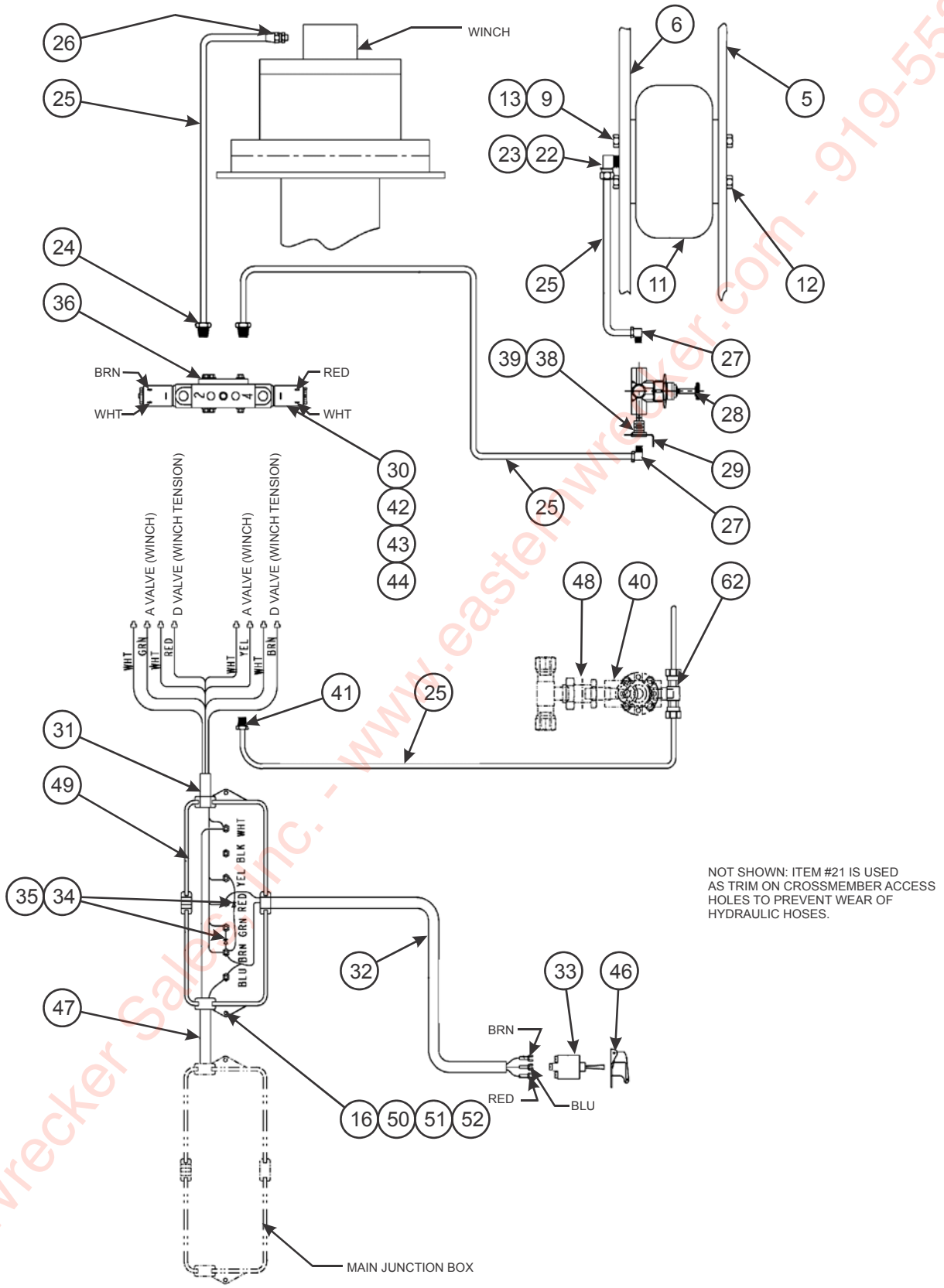


Figure 2-46: 12K, 15K, & 20K Upper Deck Winch (DP)
(2 of 2)

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

ITEM	PART NO.	DESCRIPTION	QTY.
	114241	WINCH INSTALLATION 12K, 15K, 20K DP	REF
	111351	WINCH ROLLER GUIDE DP WINCH (OPTION) (INCL. ITEMS 37, 53-59, 61)	
1	2062-8-8S	ADAPTER 90	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 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 (*)	1
7	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	12
8	1-654-010055-17	SCREW, HEX HEAD CAP 1/2 -13 X 6 GR5	1
9	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR8 (*)	2
10	3-720-010010	SPRING COMP LEVEL WIND	1
11	3-720-010042	SPRING, AIR 6-1/2 (*)	1
12	1-654-010141-04	SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8 (*)	2
13	1-861-010032-10	WASHER, FLAT 3/8 (*)	2
16	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5 (*)	2
17	3-155-010018-6	CABLE, 5/8 W/ LOOP(20K)	REF
	3-155-010017-4	CABLE, 1/2 W/ LOOP 85 FT (12K AND 15K)	REF
18	3-174-010038	CHAIN LINK, CONNECTING 1/2	1
19	3-174-010039036	CHAIN, 1/2 X 36 GR7	1
20	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
21	3-201-010001036	CONDUIT PLASTIC FLEX (*) (NOT SHOWN)	1
22	1-297-010031-02	FITTING, BRASS PIPE (*)	1
23	1-297-010032-03	FITTING, AIR 90 (*)	1
24	1-297-010007-04	FITTING, AIR (*)	2
25	1-833-010001	TUBING, NYLON 1/4 (*)	AR
26	1-297-010007-05	FITTING, AIR 1/4 (*)	1
27	1-297-010008-07	FITTING, AIR 90 (*)	2
28	3-626-010004	REGULATOR, AIR PRESSURE (*)	1
29	3-120-010445	BRACKET, PRESSURE REGULATOR (*)	1
30	3-843-010022	VALVE, PNEUMATIC 4 WAY (*)	1
31	3-368-010125	HARNESS ASSEMBLY (*)	1
32	3-368-010187	HARNESS, REMOTE SWITCH (*)	1
33	1-765-010065	TOGGLE SWITCH SPDT (*)	1
34	2-272-010109	ZENOR DIODE (* W/ REMOTE)	2
35	3-272-010018	HEAT SHRINK INSULATOR (* W/ REMOTE)	2
36	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST (* W/O REMOTE)	2
37	111387	BRACKET WELDMENT FAIRLEAD	1
38	1-297-010022-02	FITTING, AIR ANCHOR (*)	1
39	1-297-010020-02	FITTING BRASS PIPE (*)	1
40	905-54-107	VALVE & FILTER PRESSURE (*)	REF
	167692	FILTER	1
41	1-297-010008-05	FITTING, AIR 90 (*)	1
42	1-654-010024014	SCREW, MACH SLOT FIL HEAD #6-32 X 1-1/2 (* W/O REMOTE)	2
43	1-861-010032-01	WASHER, FLAT #6 (* W/O REMOTE)	2
44	1-512-010003-02	NUT, HEX LOCK #6-32 (* W/O REMOTE)	2
46	3-348-010048	GUARD, SWITCH - 3 POSITION (*)	1

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

ITEM	PART NO.	DESCRIPTION	QTY.
47	3-368-010188	HARNESS, POWER JUMPER (*)	1
48	1-297-010019-05	FITTING, BR	REF
49	750-029	JUNCTION BOX 7 STUD (*)	1
50	1-512-010007-05	NUT, HEX 1/4-20 GRB (*)	2
51	1-861-010032-06	WASHER, FLAT 1/4N (*)	2
52	1-861-010034-09	WASHER, SPLIT LOCK 1/4 (*)	2
53	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
54	1-654-010059-21	SCREW, HEX HEAD CAP 5/8-11 X 8	2
55	111383	ROD FAIRLEAD ROLLER	2
56	111384	TUBE HORIZONTAL ROLLER FAIRLEAD	2
57	111385	TUBE, VERTICAL ROLLER FAIRLEAD	2
58	111386	BUSHING, FAIRLEAD VERT ROLLER	2
59	3-150-010005	1-1/2 ID BRONZE SLEEVE BEARING	2
60	111091	WINCH DP 12K MANUAL	1
	111092	WINCH DP 12K AIR	1
	111093	WINCH DP 15K MANUAL	1
	111094	WINCH DP 15K AIR	1
	111095	WINCH DP 20K MANUAL	1
	111096	WINCH DP 20K AIR	1
		(SEE PAGE 2-94 FOR WINCH BREAKDOWNS)	
61	3-711-010120	SPACER, TOOL BOX 3/8 X 1-1/2	2
62	1-297-010015-03	FITTING, AIR BR TEE	1

*USED ON AIR TENSION RELEASE MODELS

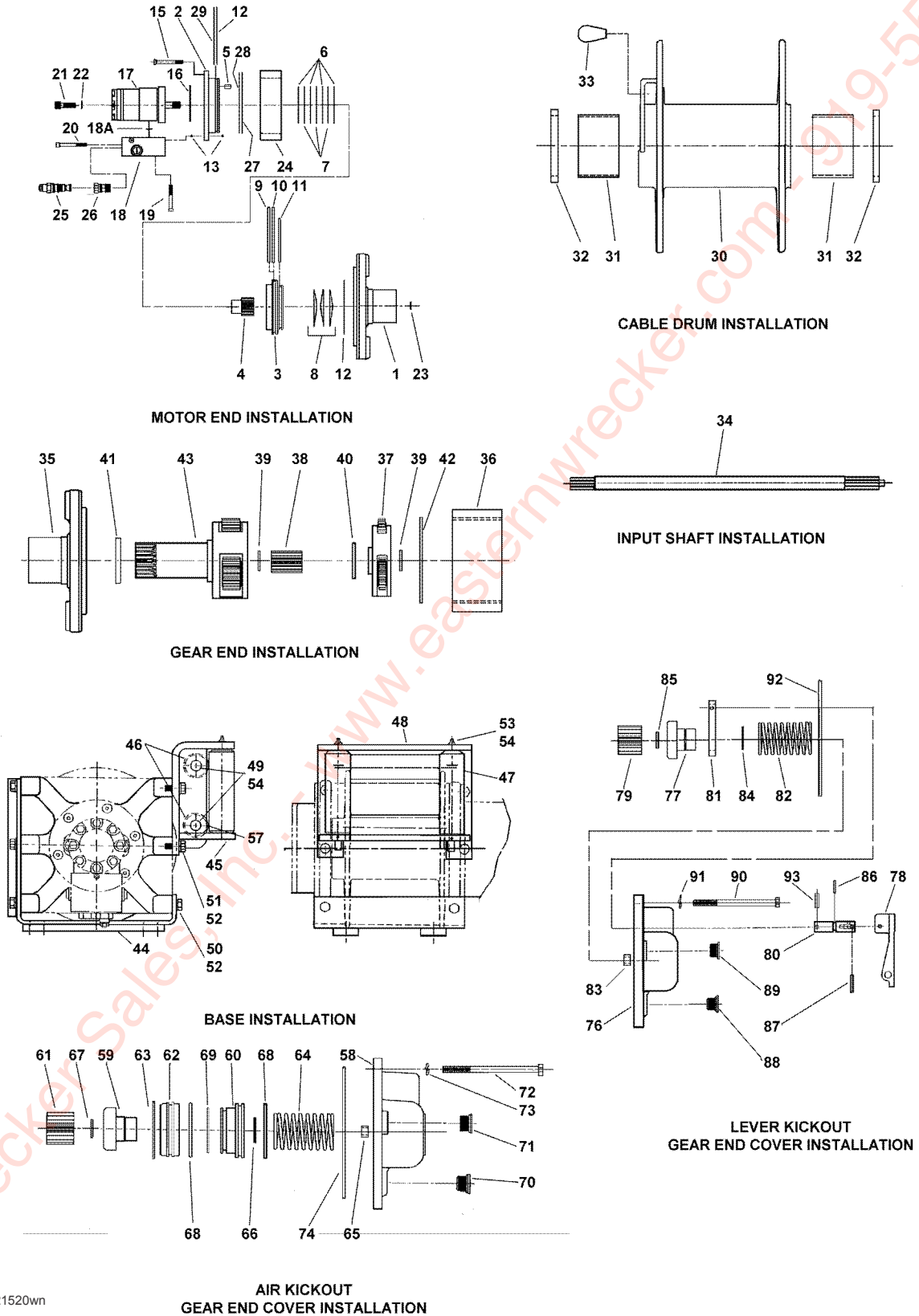


Figure 2-47: 12K, 15K, & 20K Winch Items (DP Planetary)

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	111091		WINCH DP 12K MANUAL	
	111092		WINCH DP 12K AIR	
	111093		WINCH DP 15K MANUAL	
	111094		WINCH DP 15K AIR	
	111095		WINCH DP 20K MANUAL	
	111096		WINCH DP 20K AIR	
MOTOR END INSTALLATION				
1	----	13620	SUPPORT, MOTOR END	1
2	----	13602	ADAPTER, MOTOR	1
3	----	13603	PISTON, BRAKE	1
4	----	13601	SHAFT, BRAKE	1
5	----	3437	PIN, DOWEL - 3/8 X 5/8	3
6	----	13035	PLATE, FRICTION - BRAKE	4
7	----	13034	PLATE, STATIONARY - BRAKE	3
8	----	3607	SPRING	3
9	----	9851	O-RING	1
10	----	9852	RING, BACKUP	1
11	----	9709	O-RING	1
12	137424	9843	O-RING	2
13	137425	9612	O-RING	2
14	----	3440	PLUG, EXPANDER (NOT SHOWN)	2
15	180586	4346-8	CAP SCREW, SKT HEAD FL 3/8NC X 3 GR8	6
16	141547	9637	O-RING	1
17	----		MOTOR, HYDRAULIC (12K)	
	112641	73216	MOTOR, HYDRAULIC (15K)	1
	176681	73218	MOTOR, HYDRAULIC (20K)	1
18	13894	13894	VALVE ASSEMBLY, COUNTERBALANCE	1
18A	141456	9821	O-RING	2
19	180585	1167	CAP SCREW SOCKET HEAD 5/16-18 X 2	4
20	180584	4076	CAP SCREW SOCKET HEAD 1/4-20 X 4-1/2	1
21	172903	1454	CAP SCREW SOCKET HEAD 1/2-13 X 1-1/4	2
22	----	1144	WASHER LOCK 1/2 HI COLLAR	2
23	----	3460	RING, RETAINER 3/4 X .035T	2
24	----	13621	SLEEVE, ADAPTER	1
25	70040	70040	CARTRIDGE	1
26	70042	70042	PLUG, SUN	1
27	137426	9600	O-RING	1
28	137427	9711	RING, BACKUP	1
29	137428	9846	RING, BACKUP	1
CABLE DRUM INSTALLATION				
30	----	12401	DRUM	1
31	----	11947	BEARING - BRONZE	2
32	----	9929	SEAL SHAFT	2
33	156528	10529	CLIP - CABLE 7/16	1
INPUT SHAFT INSTALLATION				
34	----	13678	INPUT SHAFT	4

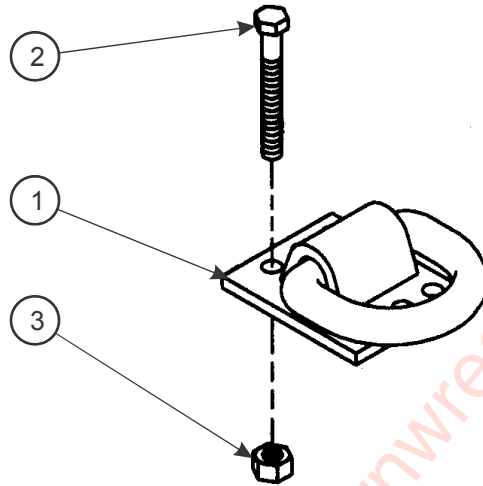
12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
GEAR END INSTALLATION				
35	----	13605	SUPPORT, END GEAR	1
36	----	81107	GEAR - RING	1
37	----	3412	CARRIER, PRIMARY	1
38	----	13380	GEAR, SUN	1
39	----	13385	WASHER, THRUST	2
40	----	12083	WASHER, THRUST NYLON J	1
41	----	13164	WASHER, THRUST NYLON	1
42	----	9897	O-RING	1
43	----	13379	CARRIER ASSEMBLY, SECONDARY	1
BASE MOUNT INSTALLATION				
44	----	13599	BASE, MOUNTING	1
45	----	13746	BRACKET, MOUNTING	1
46	----	13400	ROLLER, VERTICAL	2
47	----	12048	ROLLER, VERTICAL BUMPER	2
48	----	12043	SHAFT, ROLLER VERTICAL, BUMPER	2
49	----	13403	SHAFT ROLLER VERTICAL 7/8 X 9-3/8	2
50	----	1401	CAP SCREW, HEX HEAD 1/2-13NC X 1	8
51	----	1402	CAP SCREW, HEX HEAD 1/2-13NC X 1-1/4	4
52	----	1495	WASHER, LOCK 1/2	12
53	----	1000	FITTING, GREASE STR 1/8	4
54	----	81611	BUSHING, BRONZE	8
55	----	12113	PLATE, ID WINCH (NOT SHOWN)	1
56	----	1165	RIVET, TYPE U (NOT SHOWN)	4
57	----	3456	PIN, SPRING 3/16 X 13/16	4
GEAR END COVER INSTALLATION - AIR KICKOUT				
58	----	13370	COVER, GEAR END	1
59	----	13372	COUPLING, DRIVE	1
60	----	13373	PISTON - AKO	1
61	----	13386	GEAR, SUN	1
62	----	13296	CYLINDER, PISTON	1
63	----	3632	RING, RETAINING ROUND	1
64	----	2309	SPRING, COMPRESSION	1
65	----	81612	BUSHING, BRONZE	1
66	----	3303	RING, RETAINER	1
67	----	3321	RING, RETAINER	1
68	----	9672	O-RING	2
69	----	9704	O-RING	1
70	----	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
71	----	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
72	----	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
73	132106	1168	WASHER, LOCK 5/16	8
74	----	9897	O-RING	1
75	----	1157	CAPLUG (NOT SHOWN)	1

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

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
			GEAR END COVER INSTALLATION - LEVER KICKOUT	
76	----	14182	COVER, GEAR END	1
77	----	13372	COUPLING, DRIVE	1
78	----	14099	LEVER, KICKOUT	1
79	----	13386	GEAR, SUN	1
80	----	14181	SHAFT, SIFTER	1
81	----	14183	YOKE, OVAL SHIFT	1
82	----	2309	SPRING, COMPRESSION	1
83	----	81612	BUSHING, BRONZE	1
84	----	3303	RING, RETAINER	1
85	----	3321	RING, RETAINER	1
86	----	9739	O-RING	1
87	----	3705	PIN, SPRING 3/16 X 1-1/9	1
88	----	76343	PLUG, SOCKET HEAD MAGNETIC #10	1
89	----	76344	PLUG, O-RING, SOCKET HEAD 7/8-14	1
90	----	3004	CAP SCREW, HEX HEAD 5/16-18 X 4-3/4	8
91	132106	1168	WASHER, LOCK 5/16	8
92	----	9897	O-RING	1
93	----	3456	PIN, SPRING 3/16 X 13/16	1

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



3m793-010041

Figure 2-48: Tie Down Installation (Option)

TIE DOWN INSTALLATION (OPTION)

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

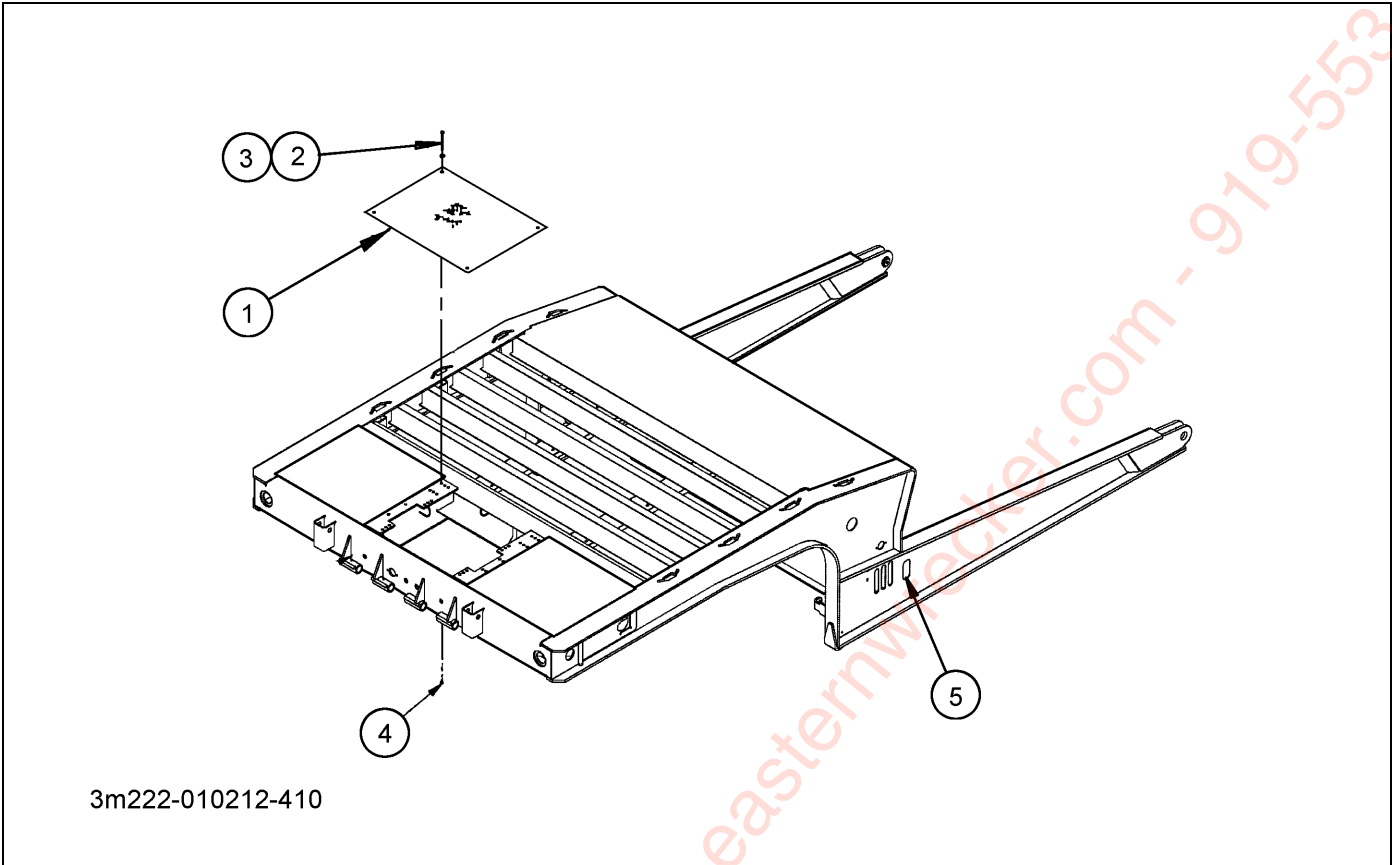
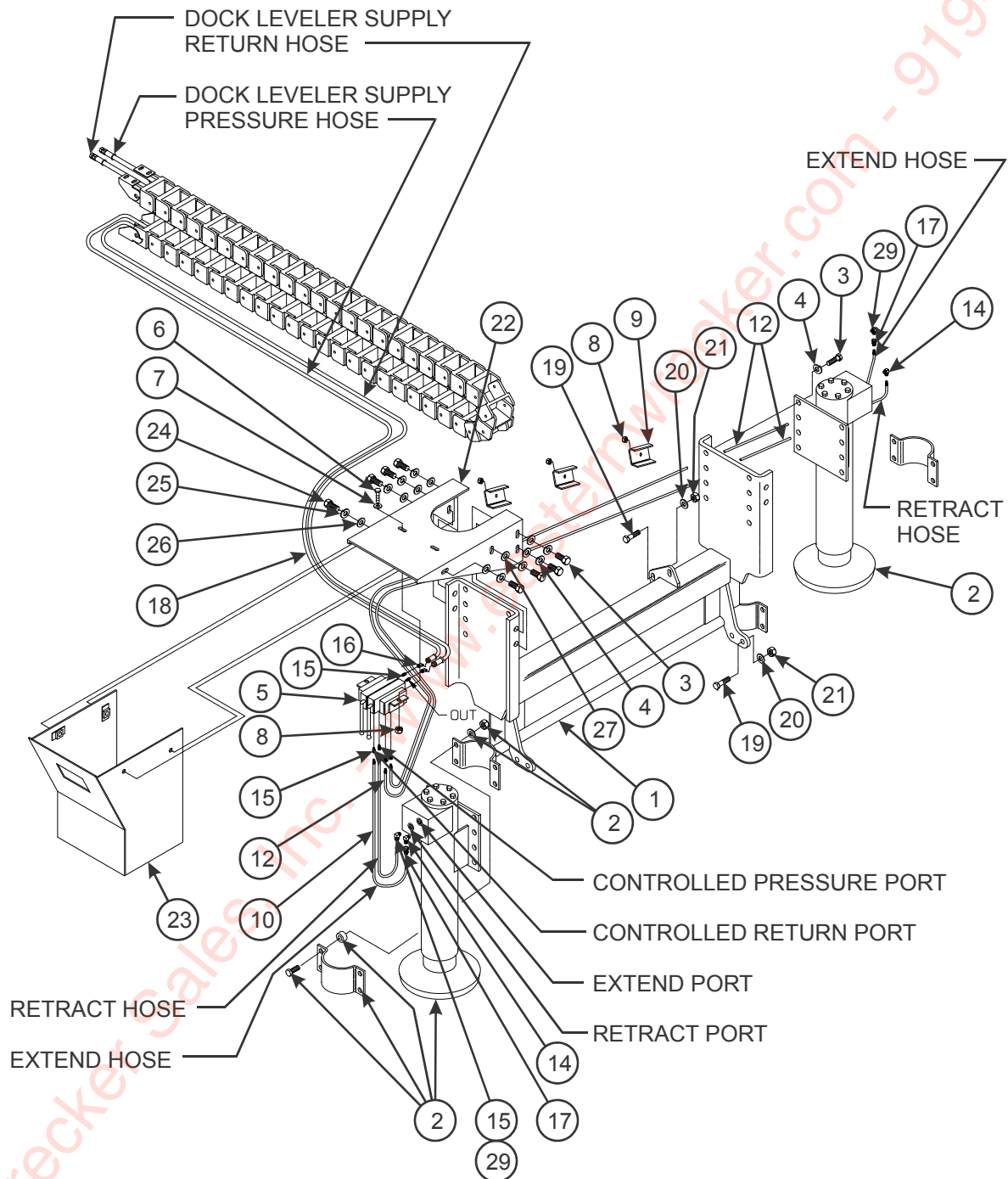


Figure 2-49: Upper Deck Cover Installation (Option)

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

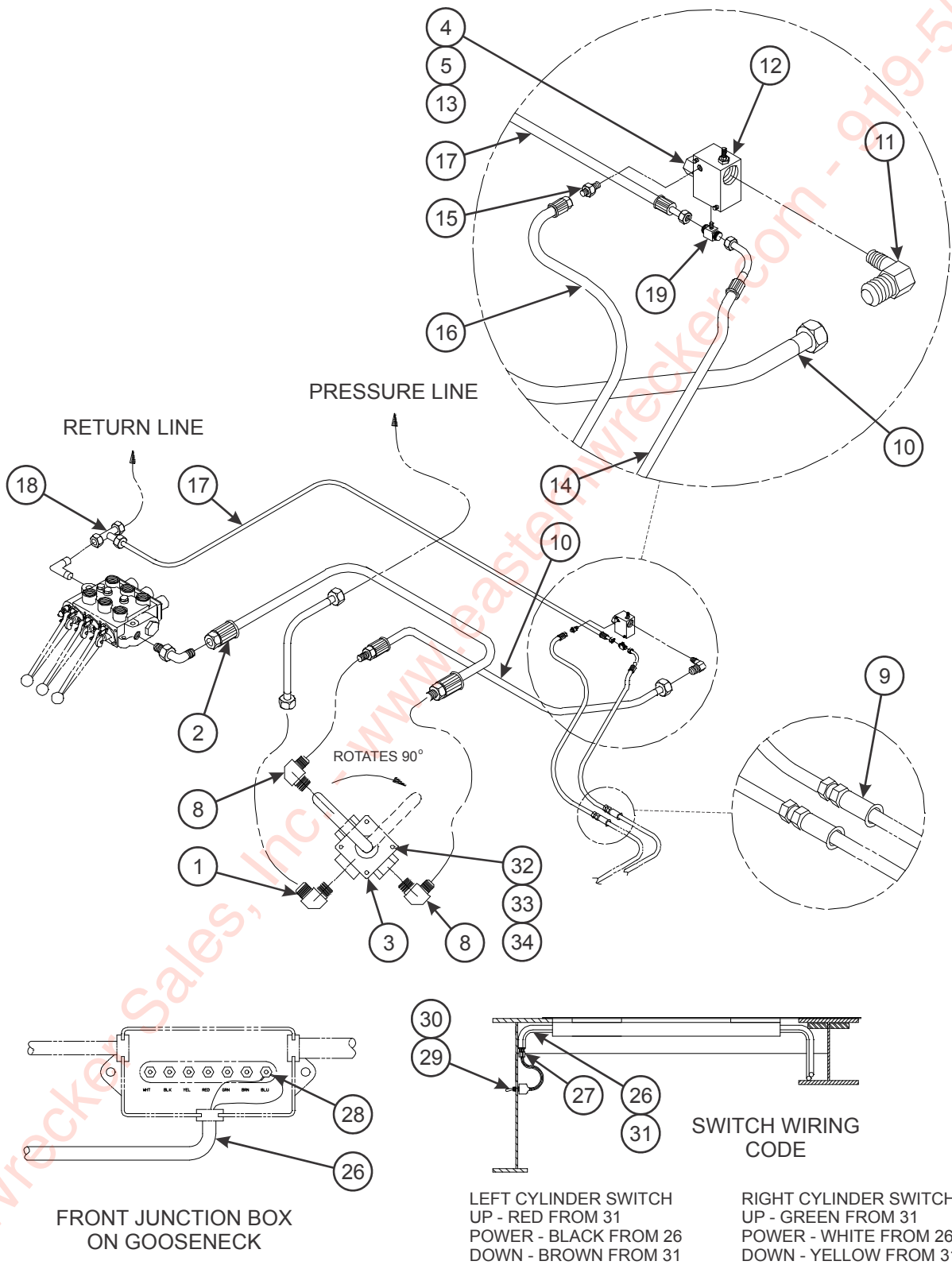


3m256-010003

Figure 2-50: 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 2-105)	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 2-108)	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	-
	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



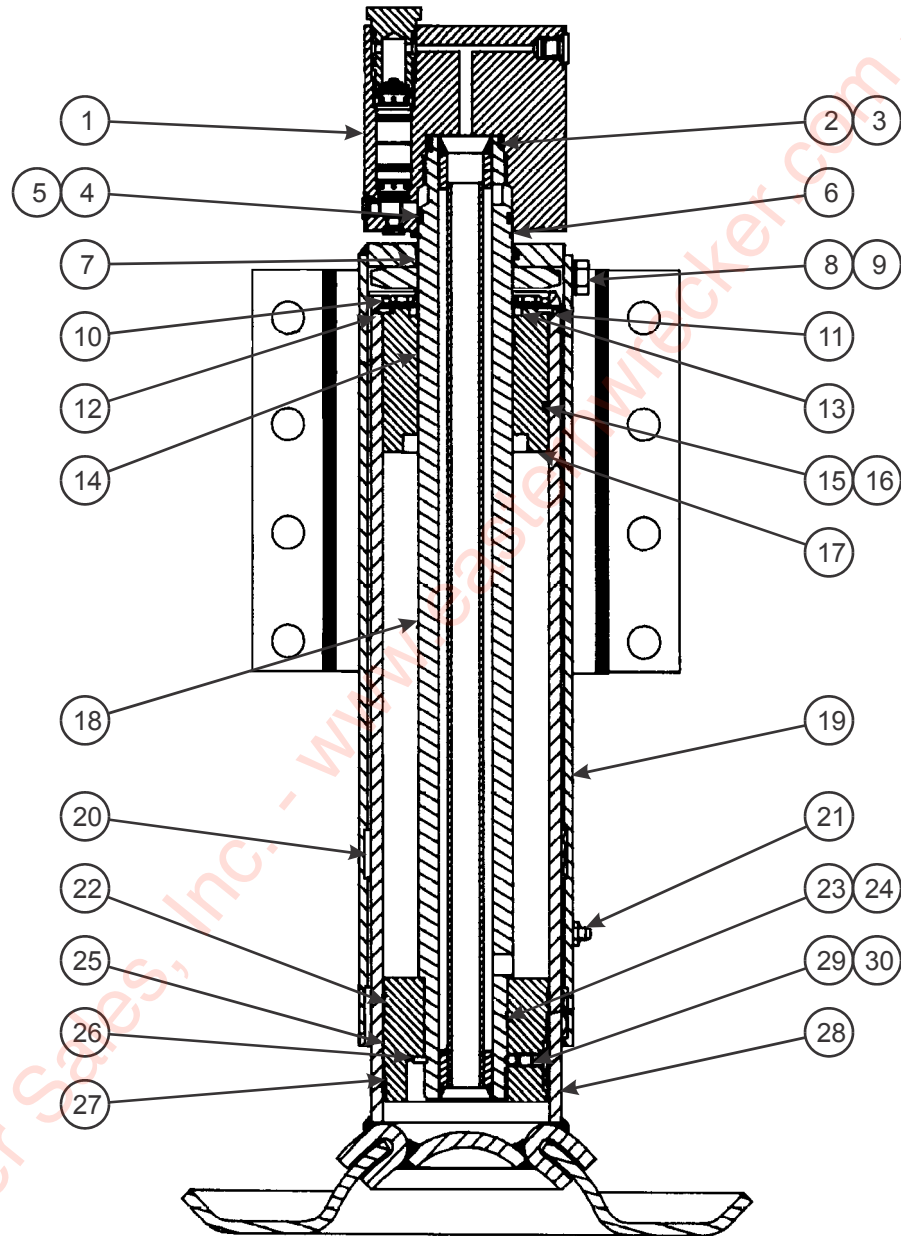
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Figure 2-51: Dock Leveler Hydraulic Installation (Option)

DOCK LEVELER HYDRAULIC INSTALLATION (OPTION)

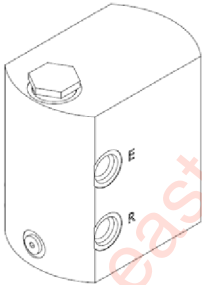
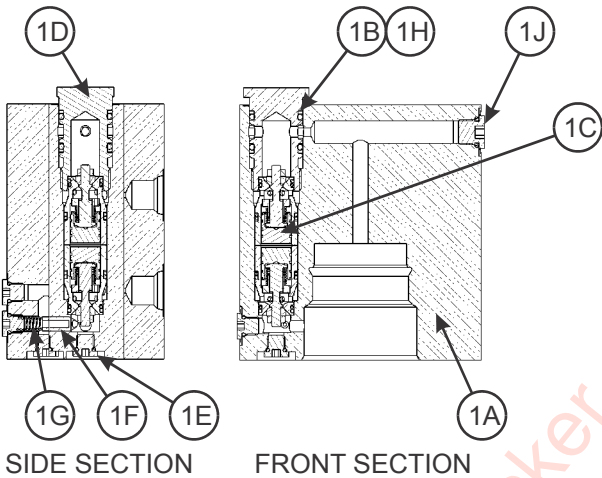
ITEM	PART NO.	DESCRIPTION	QTY.
	107391	D/L HYDRAULIC INST. 48' FRONT (ITEMS 1-34)	
	107398	D/L HYDRAULIC INST. 53' FRONT (ITEMS 1-34)	
	112546	D/L HYDR. INST. 48' RR (ITEMS 1-3, 8-23, 25, 32-34)	
	112548	D/L HYDR. INST. 53' RR (ITEMS 1-3, 8-23, 25, 32-34)	
1	2062-12-12S	ADAPTER 90°	*1,2
2	1-397-010304025	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
	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
	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
	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.

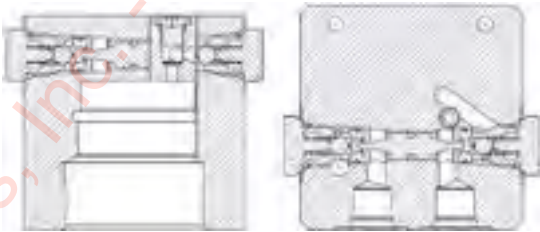


dock leg op p1

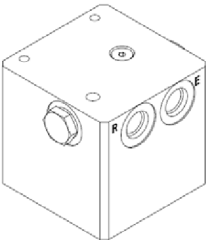
Figure 2-52: Dock Leveler Leg Assembly w/ Lock Valve (1 of 2)



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



FRONT SECTION TOP SECTION



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

dock leg op p2

Figure 2-53: Dock Leveler Leg Assembly w/ Lock Valve (2 of 2)

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

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

LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

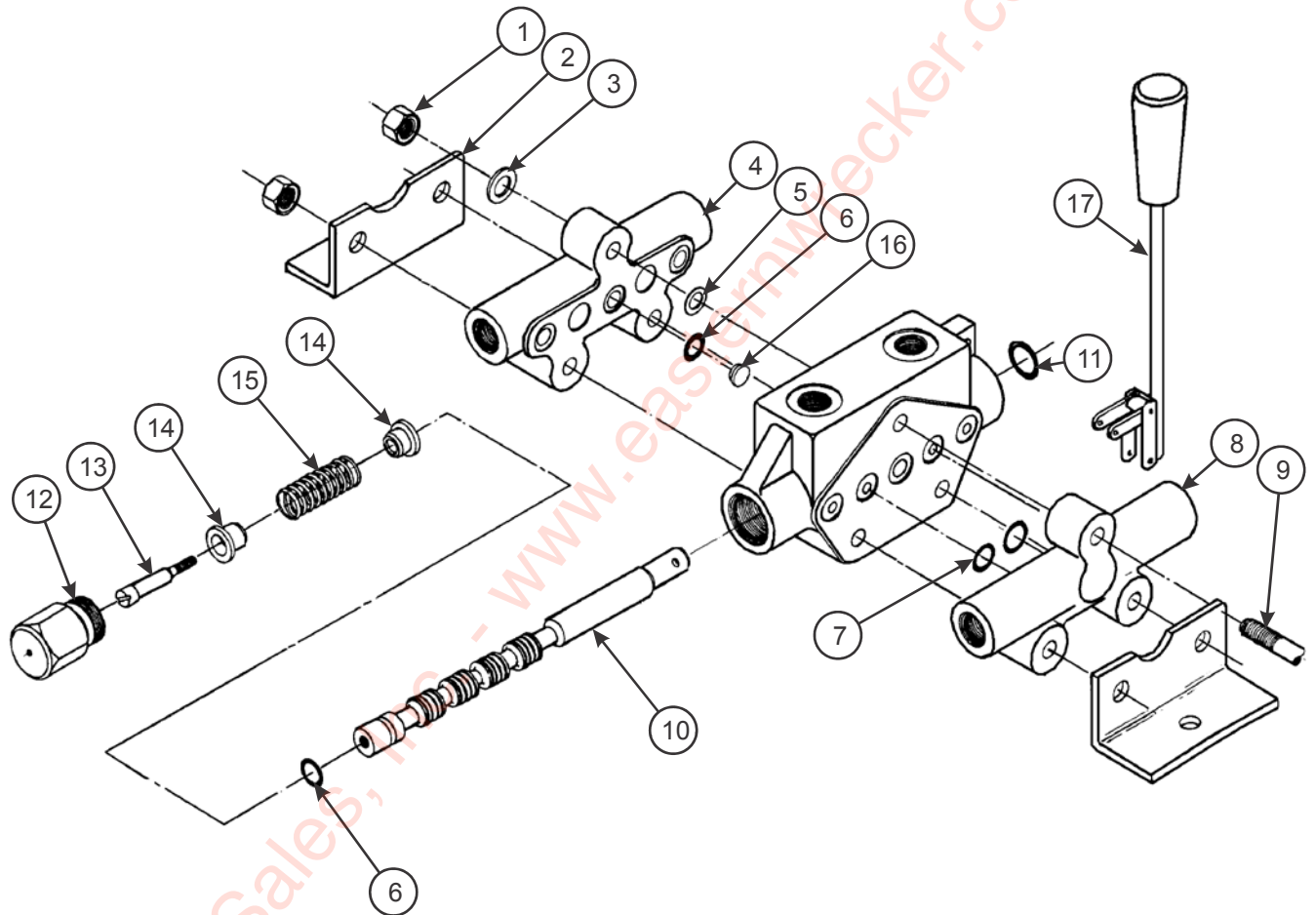
ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
------	----------	---------------	-------------	------

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

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

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

NSS: NOT SOLD SEPARATELY



3m873-010140 p1

Figure 2-54: Dock Leveler Valve

DOCK LEVELER VALVE

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

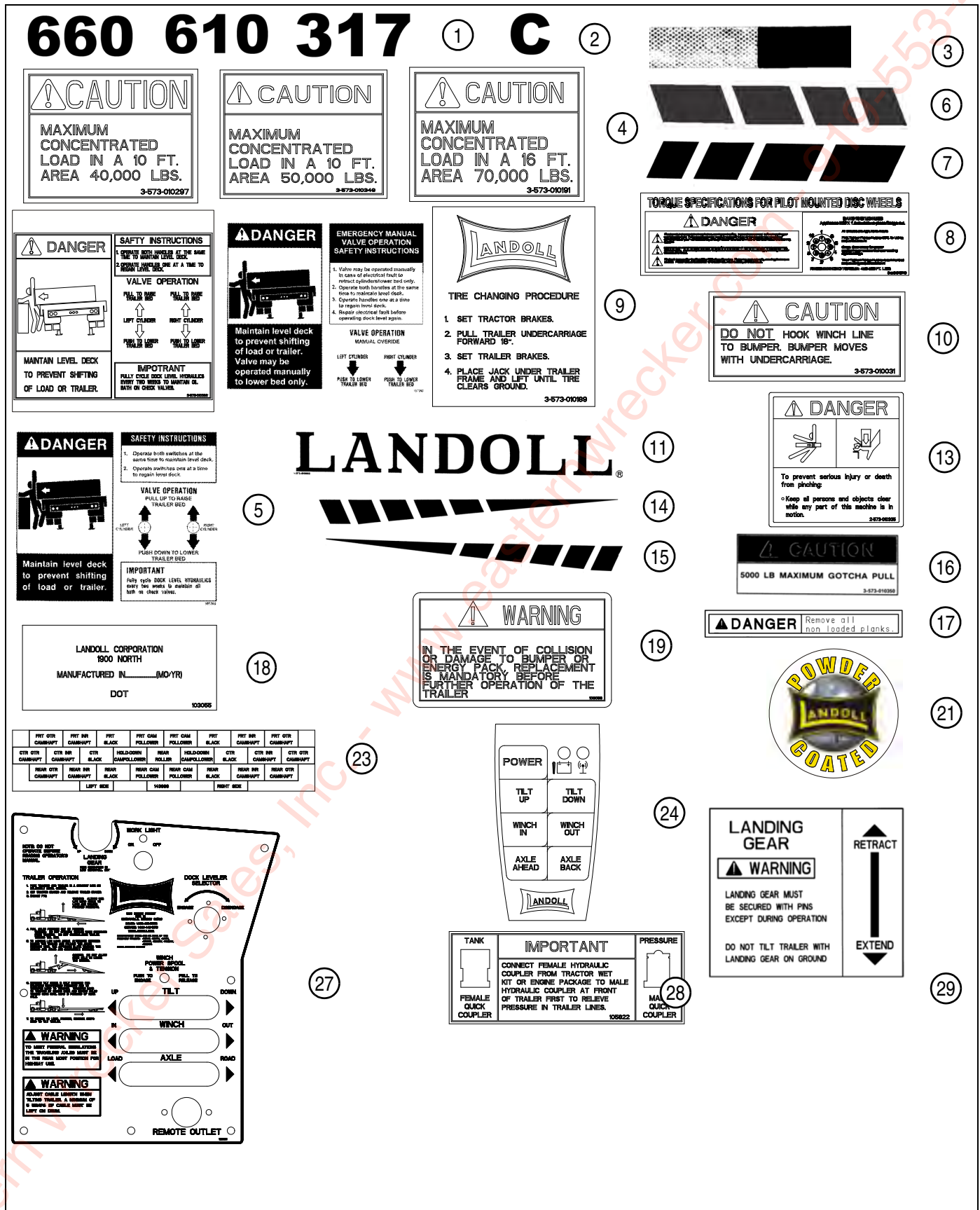
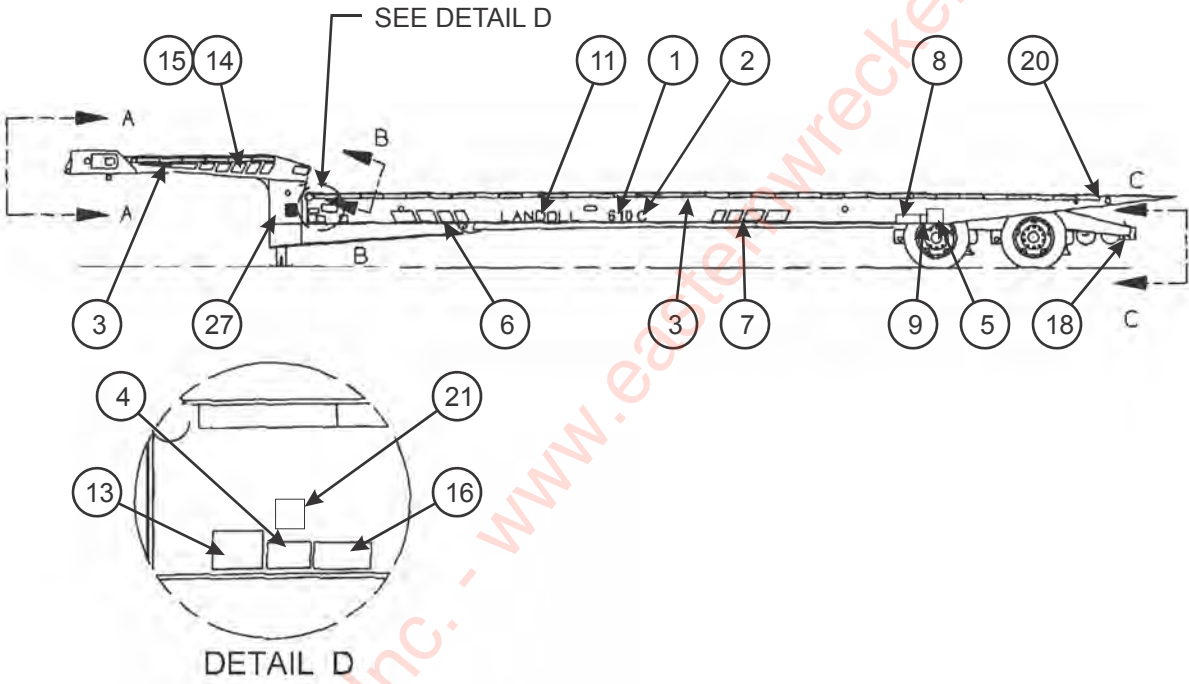
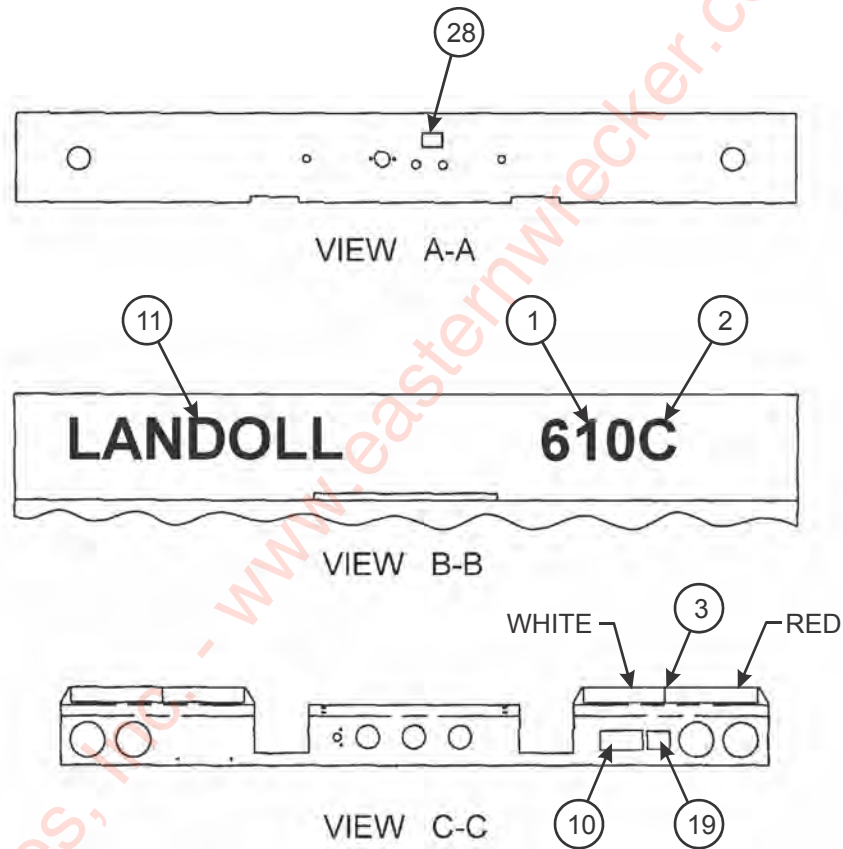


Figure 2-55: Decals



573mc103057 p1

Figure 2-56: Decal Installation (1 of 2)



573mc103057 p2

Figure 2-57: Decal Installation (2 of 2)

DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
1	113513	DECAL, 660 BLACK DC 5"	3
	113512	DECAL, 660 WHITE DC 5"	3
	113515	DECAL, 610 BLACK DC 5"	3
	113514	DECAL, 610 WHITE DC 5"	3
	113520	DECAL, 317 (BLACK) (#7 USED TO MAKE 670)	3
	113518	DECAL, 317 (WHITE) (#7 USED TO MAKE 670)	3
2	114575	DECAL, "C" (BLACK)	3
	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
	3-573-010349	DECAL, CAUTION 50K/10FT CONC. LOAD	2
	3-573-010191	DECAL, CAUTION 70,000#/16FT (TRIPLE AXLE)	2
5	3-573-010202	PLACARD, DANGER! DOCK LEVELER OPERATION	REF
	107358	DECAL, DANGER D/L CONTROLS	1
	107359	DECAL, DANGER D/L CONTROLS	1
6	3-573-010040	DECAL FRONT STRIPE (LEFT BLACK)	2
	3-573-010042	DECAL FRONT STRIPE (LEFT WHITE)	2
7	3-573-010041	DECAL FRONT STRIPE (RIGHT BLACK)	2
	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
	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
	3-573-010046	DECAL TAPERED STRIPE (LEFT WHITE)	1
15	3-573-010045	DECAL TAPERED STRIPE (RIGHT BLACK)	1
	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 FOR LOCATION)	REF
18	103055	DECAL, ENERGY CERTIFICATION	1
19	103056	DECAL, ENERGY BUMPER WARNING	1
20	101855	DECAL, ABS	1
21	139559	DECAL, POWDER COATED	1
22	100600	DECAL, WARNING BRADEN WINCH	
23	143688	DECAL, GREASE TRL U/C (SEE PAGES 2-39 AND 2-39 FOR LOCATIONS)	1 1
24	143128	DECAL, 6 FUNCTION WINCH/TILT/AXLE (SEE PAGE 2-31)	1
27	139521	PLACARD, CONTROL 660 L/G	1
28	105822	DECAL, HYDRAULIC COUPLER	REF
29	113389	DECAL, HYDRAULIC LEG INST (SEE PAGE 2-116 FOR LOCATION)	REF

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

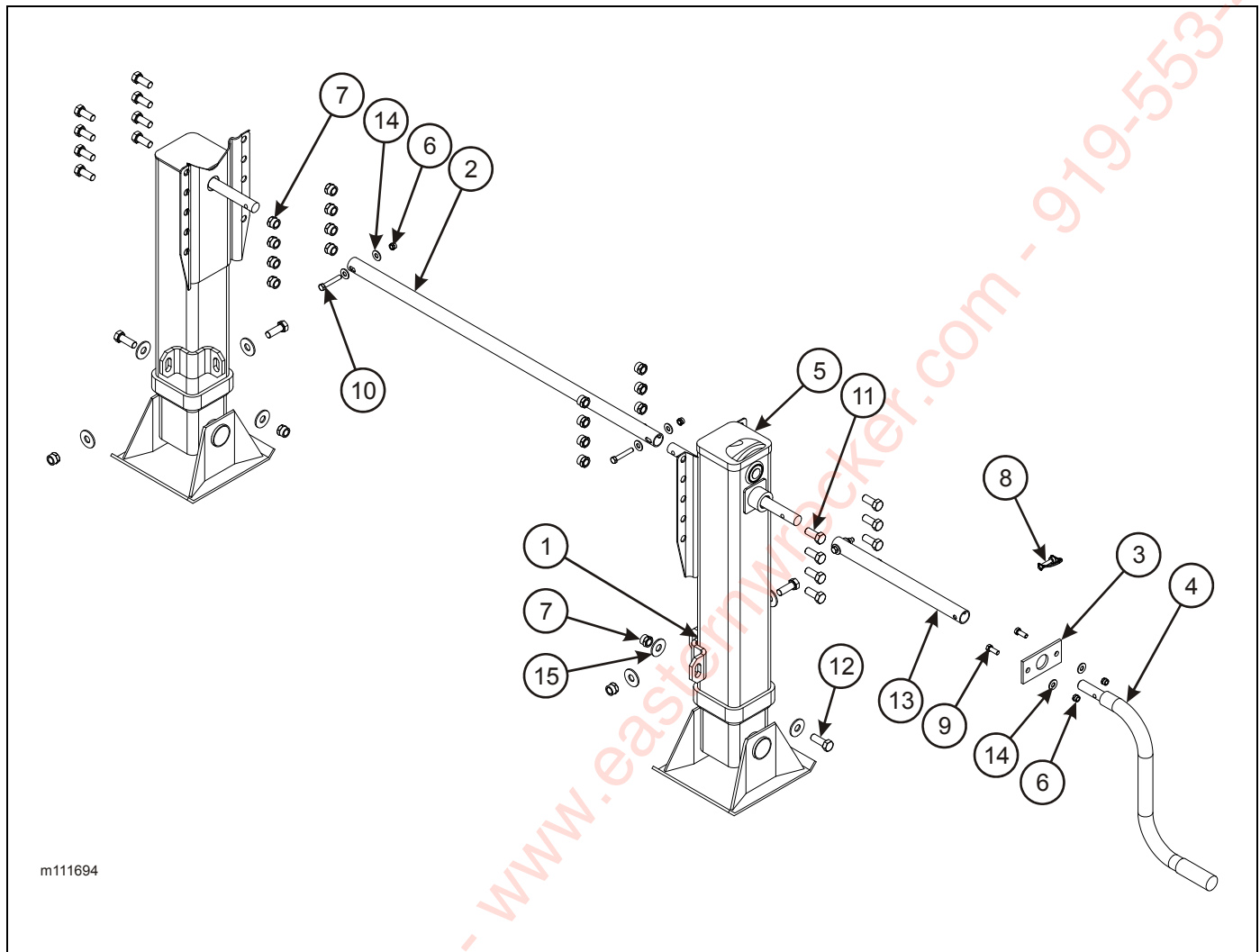


Figure 2-58: Landing Gear Installation

LANDING GEAR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	111694	LANDING GEAR INSTALLATION	
1	104238	ANCHOR, LOWER BOLT-ON PARK STAND	2
2	109160	CROSS-SHAFT LANDING GEAR	1
3	111695	GUIDE, HANDLE, JOST GEAR	1
4	109161	HANDLE, CRANK MODIFICATION	1
5	109709	2 SPEED LANDING GEAR (SEE PAGE 2-118)	1
6	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
7	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
8	111859	PIN, ROUND LOCKING 5/16 X 1-1/2	1
9	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
10	1-654-010051-10	SCREW, HEX HEAD CAP 3/8-16 X 2-1/4 GR5	3
11	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	24
12	1-654-010059-04	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR5	4
13	109159	TUBE, ROUND EXTENSION	1
14	1-861-010032-11	WASHER, FLAT 3/8W	6
15	1-861-010032-19	WASHER, FLAT 5/8W	4

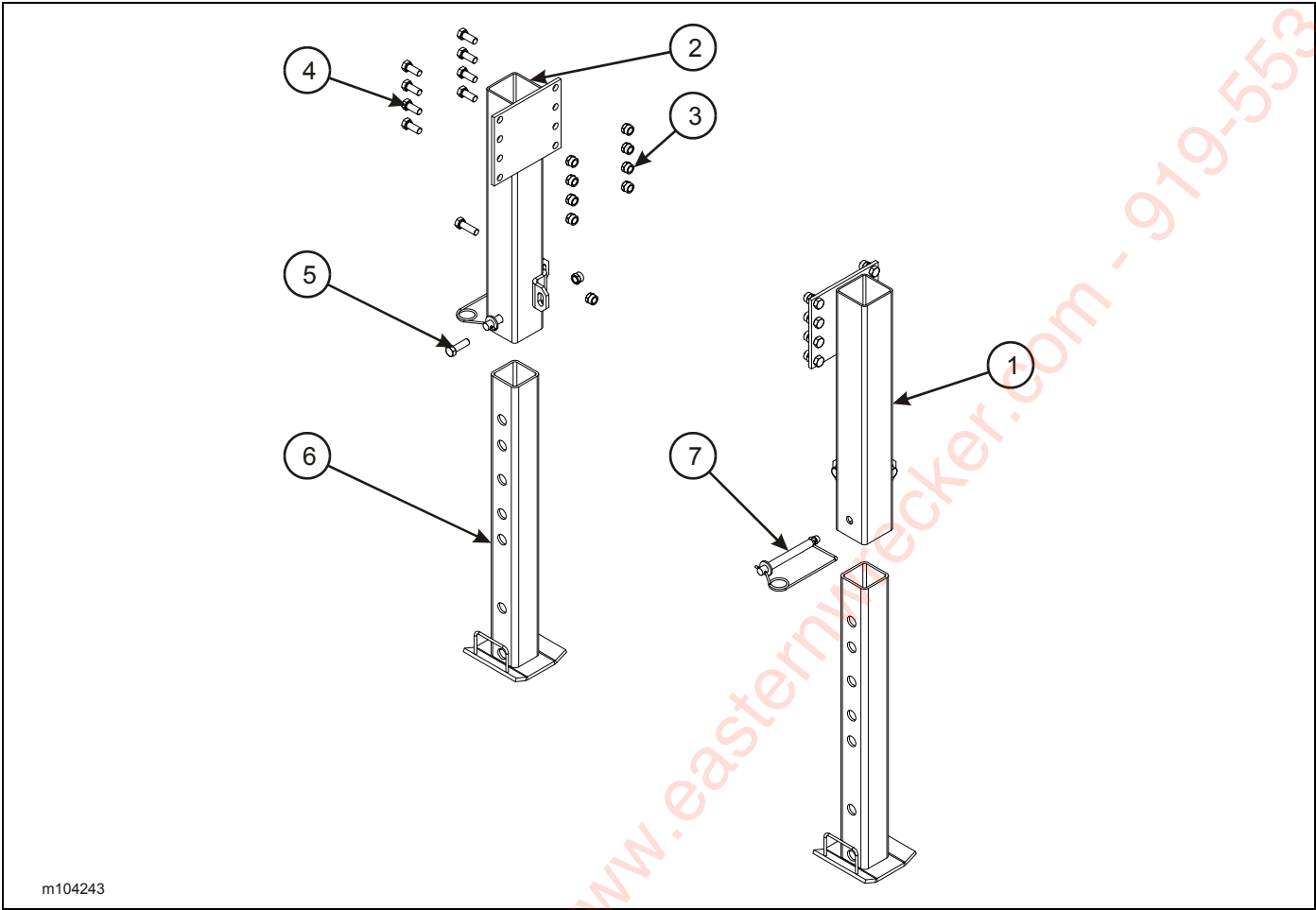


Figure 2-59: Landing Gear Installation

LANDING GEAR INSTALLATION BOLT - ON

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INST., BOLT-ON (ITEMS 1-7)	
1	112678	PARK STAND WELDMENT, LH FRONT PIN	1
2	112679	PARK STAND WELDMENT, RH FRONT PIN	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WELDMENT	2
7	346SL	LOCK HITCH PIN	2

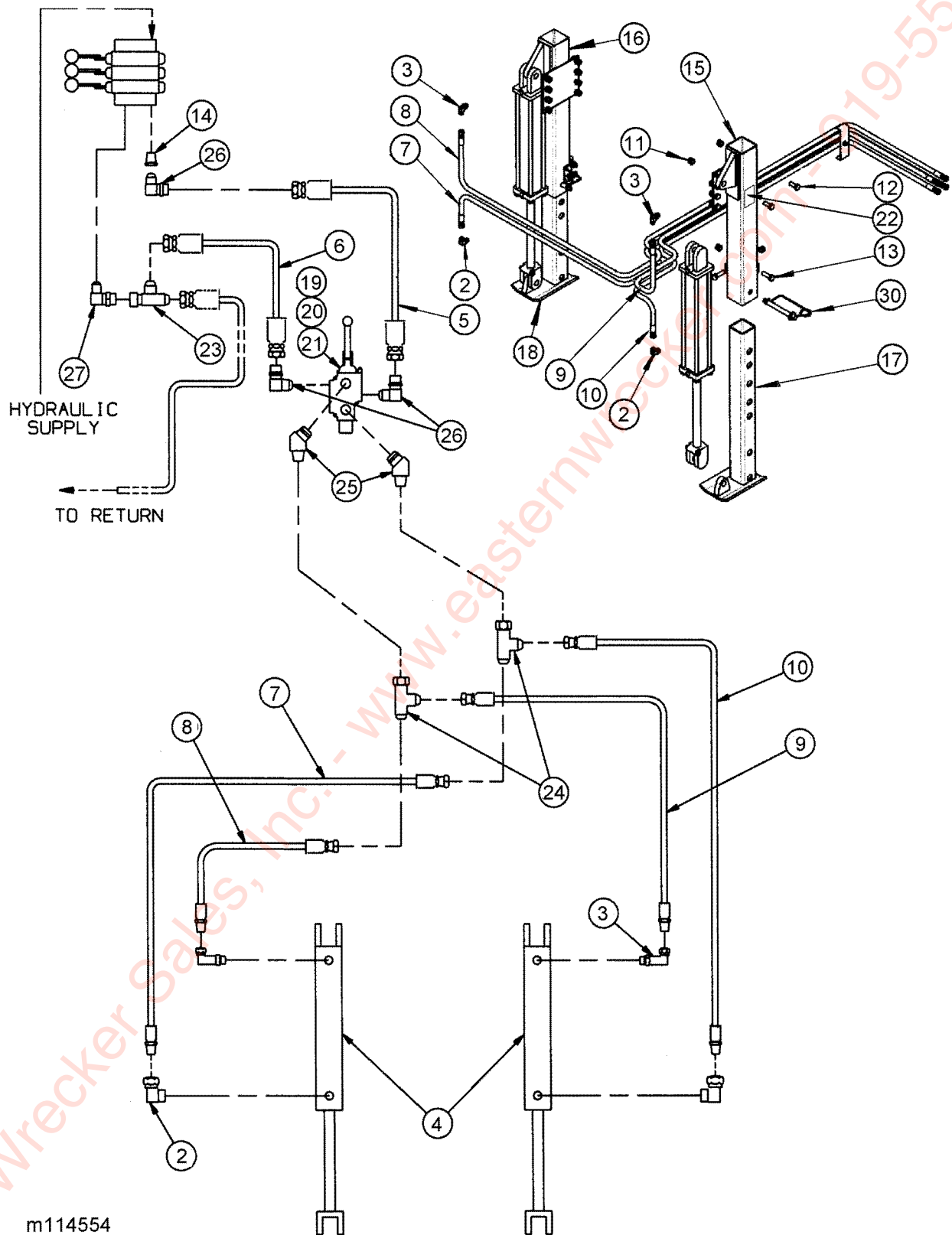
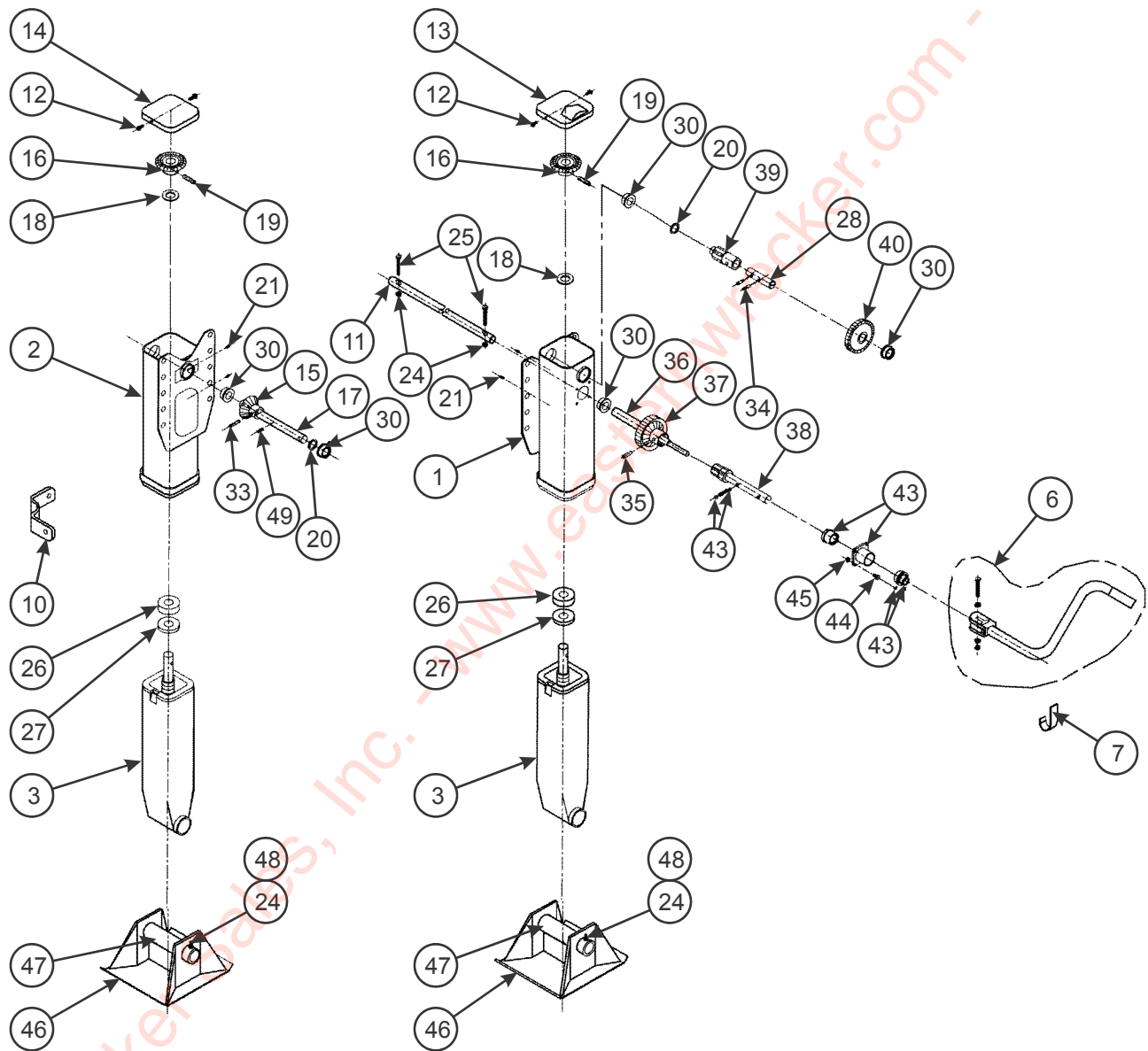


Figure 2-60: Hydraulic Landing Gear Installation

HYDRAULIC LANDING GEAR INSTALLATION

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 2-120)	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

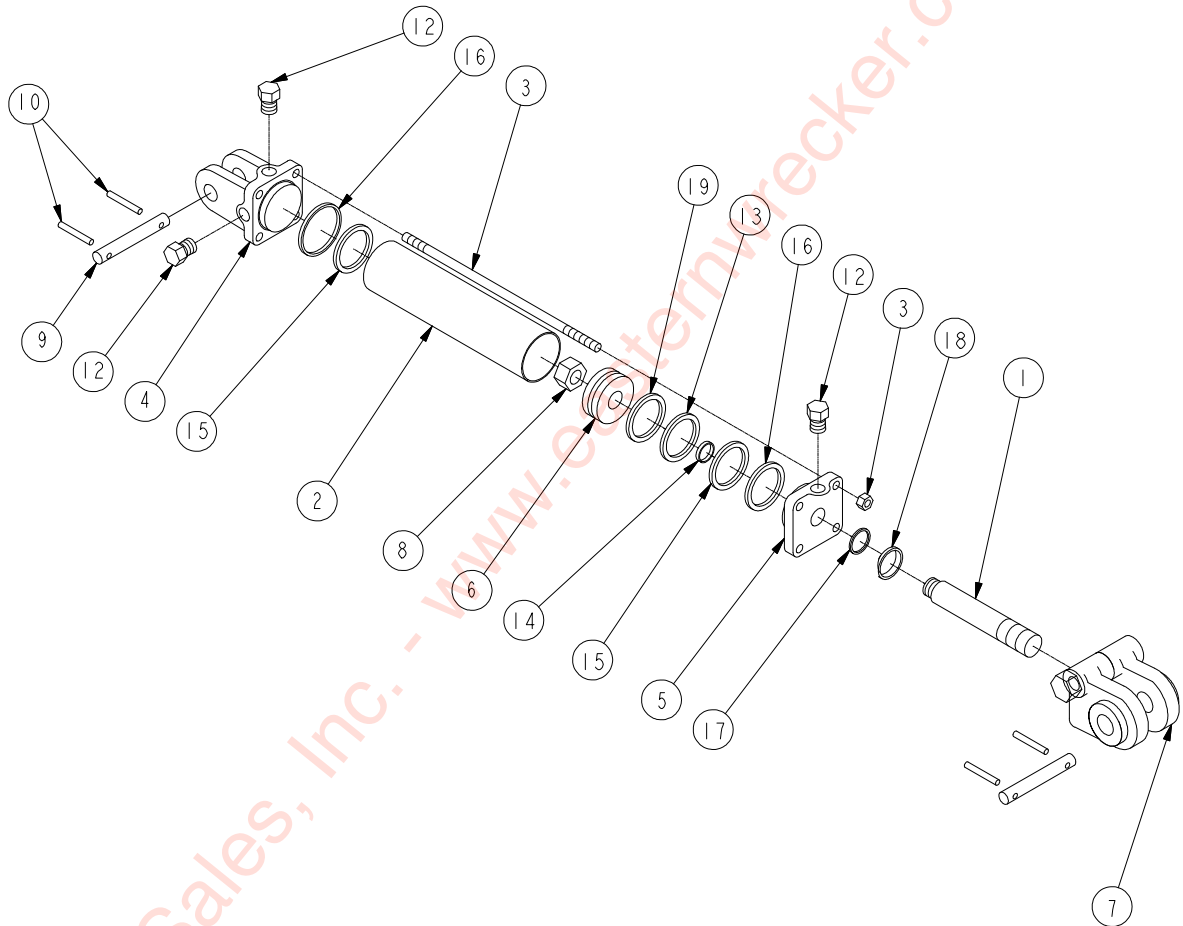


m109709 b

Figure 2-61: Crank Landing Gear

CRANK LANDING GEAR

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	109709		LANDING GEAR	
1	-----	D10201.2	OUTER HOUSING - 2 SPEED	1
2	-----	D10116.2	OUTER HOUSING - 1 SPEED	1
3	-----	C10140.2	INNER LEG ASSEMBLY - STANDARD	2
6	109161	-----	CRANK 930 MODIFICATION	1
7	109711	B10261	CRANK HANGER	1
10	109712	C10108	BRACE LUG - W	2
11	-----	B10066	INTERMEDIATE CROSS SHAFT	1
12	-----	A10059.1	COVER SCREW	4
13	-----	C10217	COVER - 2 SPEED	1
14	-----	C10259	COVER - 1 SPEED	1
15	-----	C10177	PINION GEAR	1
16	-----	C10155	BEVEL GEAR	2
17	-----	B10130	PINION SHAFT - 1 SPEED	1
18	-----	A10102	THRUST WASHER	2
19	-----	A10052.3	GROOVED PIN	2
20	-----	A10218	SPACER WASHER	2
21	-----	A10040	GREASE FITTING	4
23	-----	C10209	STRUT BRACE (NOT SHOWN)	4
24	-----	A10038.7	SELF LOCKING NUT	2
25	-----	A10037.1	CROSS SHAFT BOLT - 3/8 X 2 GR5	2
26	-----	A10033	THRUST BEARING	2
27	-----	A10101	COLLAR	2
28	-----	A10212	OUTPUT SHAFT	1
30	-----	A10255	BUSHING	5
33	-----	A10054.3	ROLL PIN 3/8 X 1-1/2	1
34	-----	A10260.1	SPIRAL PIN	2
35	-----	A10054.7	ROLL PIN - 3/8 X 1-3/4	1
36	-----	B10236	OUTPUT CLUSTER SHAFT	1
37	-----	C10234	OUTPUT CLUSTER GEAR	1
38	-----	C10233	INPUT GEAR SHAFT	1
39	-----	C10078	OUTPUT SPUR GEAR	1
40	-----	C10085	INPUT SPUR GEAR	1
43	163502	B10229S	SHIFT HOUSING SERVICE KIT	1
44	-----	A10230	SHIFT HOUSING BOLT	4
45	-----	A10038.6	SELF LOCKING NUT	4
46	-----	C10256	SHOE - 10 X 10 X 4-1/2	2
47	114983	B10036	SHOE AXLE	2
48	-----	A10037.3	HEX HEAD BOLT	2
49	-----	A10054.6	ROLL PIN - 1/4 X 1-1/4	1



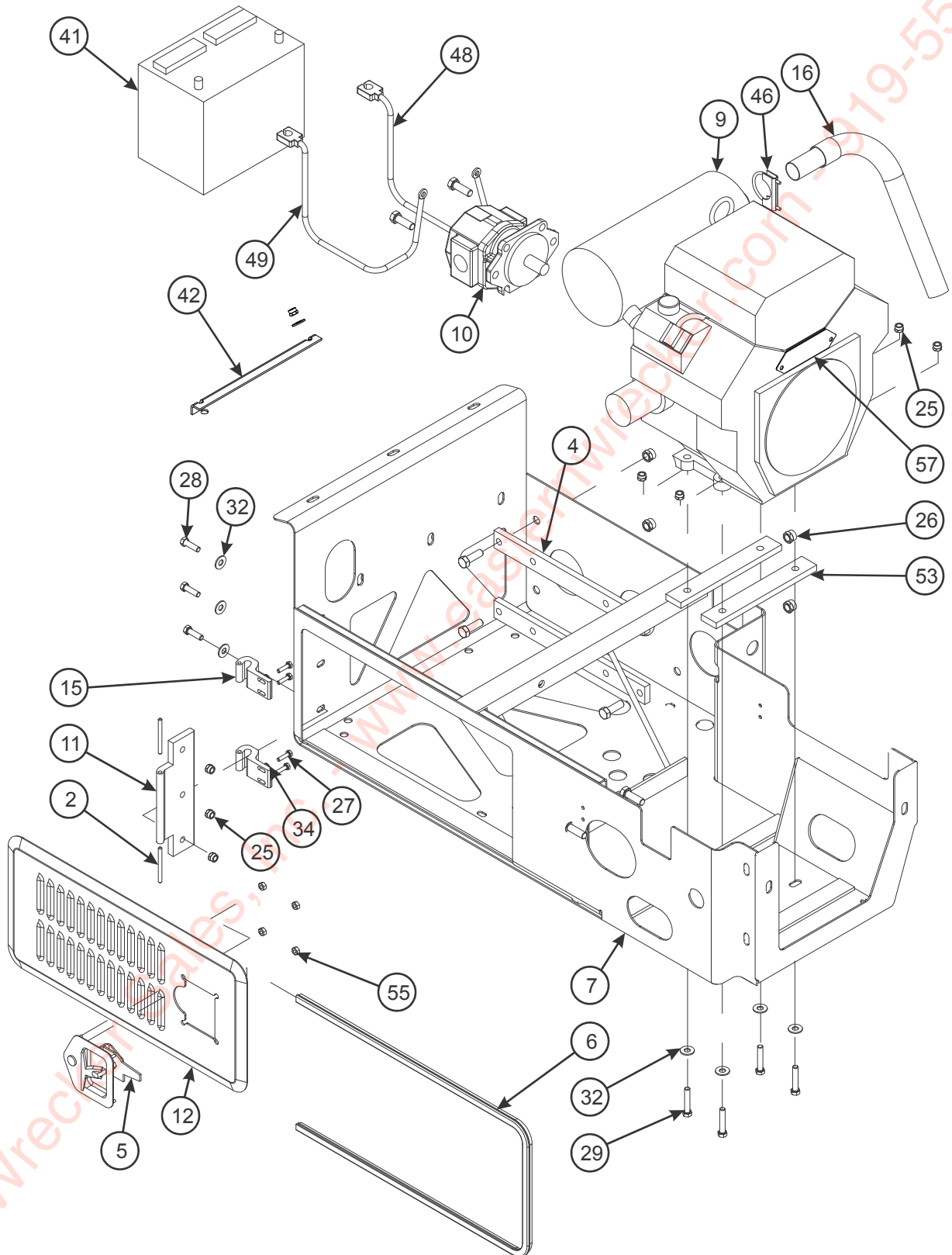
1mb242-010180

Figure 2-62: Hydraulic Cylinder 3-1/2 x 20

HYDRAULIC CYLINDER 3-1/2 X 20

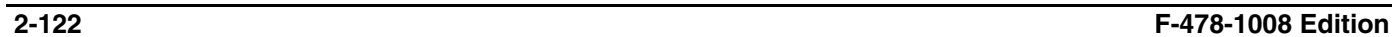
ITEM	PART NO.	DESCRIPTION	QTY.
	1-242-010180-2	CYLINDER 3-1/2" X 20" (PRINCE SAE 33520)	
1	-----	PISTON ROD	1
2	-----	TUBE	1
3	-----	TIEROD ASSEMBLY	4
4	1408084	BUTT	1
5	-----	GLAND ASSEMBLY	1
6	200300040	PORT PLUG	1
7	111866	PISTON	1
8	118241	CLEVIS ASSEMBLY	1
9	220000210	LOCKNUT	1
10	190400004	CLEVIS PIN	2
11	106120	CLEVIS PIN RETAINER	4
12	*	CROWN SEAL	1
13	*	O-RING	1
14	*	O-RING	2
15	*	BU-WASHER	2
16	*	U-CUP	1
17	*	WIPER	1
	1-242-010178-2	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS) (ITEMS 13 - 18)	1

*PARTS AVAILABLE IN PACKING KIT ONLY.



m115601p1

Figure 2-63: 27 HP Gas Engine Installation (1 of 2)



27HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	27 HP GAS ENGINE PACKAGE	
1	169531	TANK, FUEL PLASTIC 6 GAL LOW PERM	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENGINE PACKAGE INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WELDMENT, ENGINE PACKAGE	1
8	120662	HYDRAULIC TANK WELDMENT	1
9	127813	ENGINE KOHLER 27 HP PUMP MOUNT	1
	3-765-010050	KOHLER IGNITION SWITCH (2509904)	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING, 45	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	120661	VALVE, HYDRAULIC PRESSURE RELIEF	1
19	900598-12S	PLUG, O-RING	1
20	105-0105	CLAMP, HOSE (NOT SHOWN)	6
21	1-295-010001	RETURN LINE FILTER	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	5
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	11
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	4
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
32	1-861-010032-11	WASHER, FLAT 3/8W	11
33	1-861-010032-15	WASHER, FLAT 1/2W	5
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2024-12-12S	ELBOW, 90	1
36	202702-12-12S	ADAPTER, STRAIGHT	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	1
39	203102-12-12S	ADAPTER, TEE	1
40	206209-12-12S	ADAPTER, 90	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	3-155-010012	CABLE, THROTTLE	2
44	3-316-010008	FUEL HOSE 3/16 ID	5
45	3-162-010001	FILLER-BREATH-ER-STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1
47	3-399-010001006	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1

27HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	1-560-010002-04	PLUG, PIPE 1/2	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120659	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	123014	PLATE, MOTOR FRONT 25HP E/P	1
58	113544	HARNESS, ENGINE PACKAGE IGNITION (NOT SHOWN) (BEFORE 4-10-2015)	1
	178428	SWITCH & HARNESS KIT, KOLHER U/D (AFTER 4-10-2015)	1
59	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
60	110578	U-BOLT, FENDER MOUNT	1
61	166766	CARBON CANISTER, FUEL TANK	1
62	169532	HOSE, FUEL 1/4 LOW PERM CARB	5
63	170109	FITTING	1
64	170110	FITTING	1
65	170111	FITTING	1
66	170112	FITTING	1
67	128501	MUFFLER KIT REPLACEMENT	1

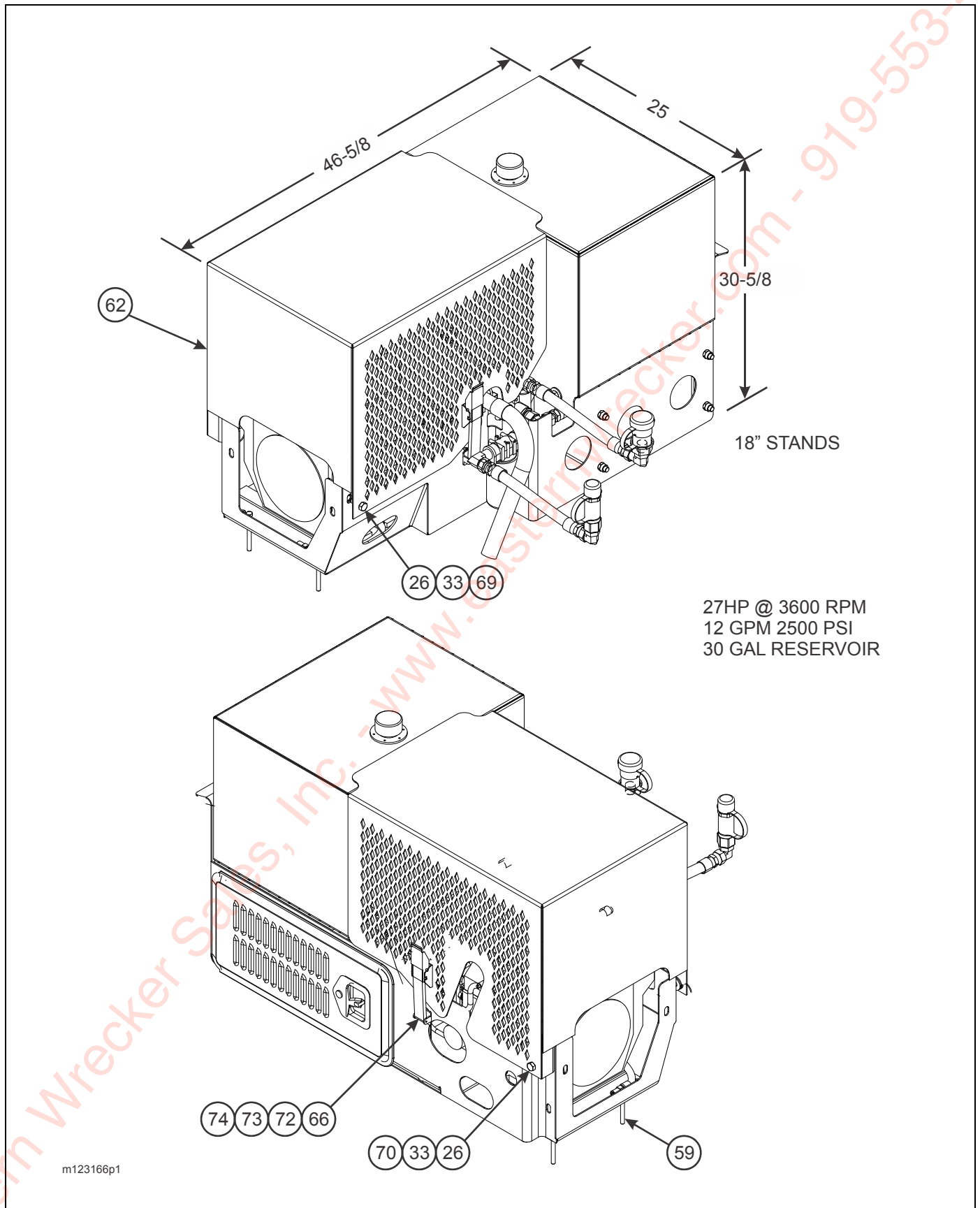


Figure 2-65: Upper Deck Engine Installation (1 of 4)

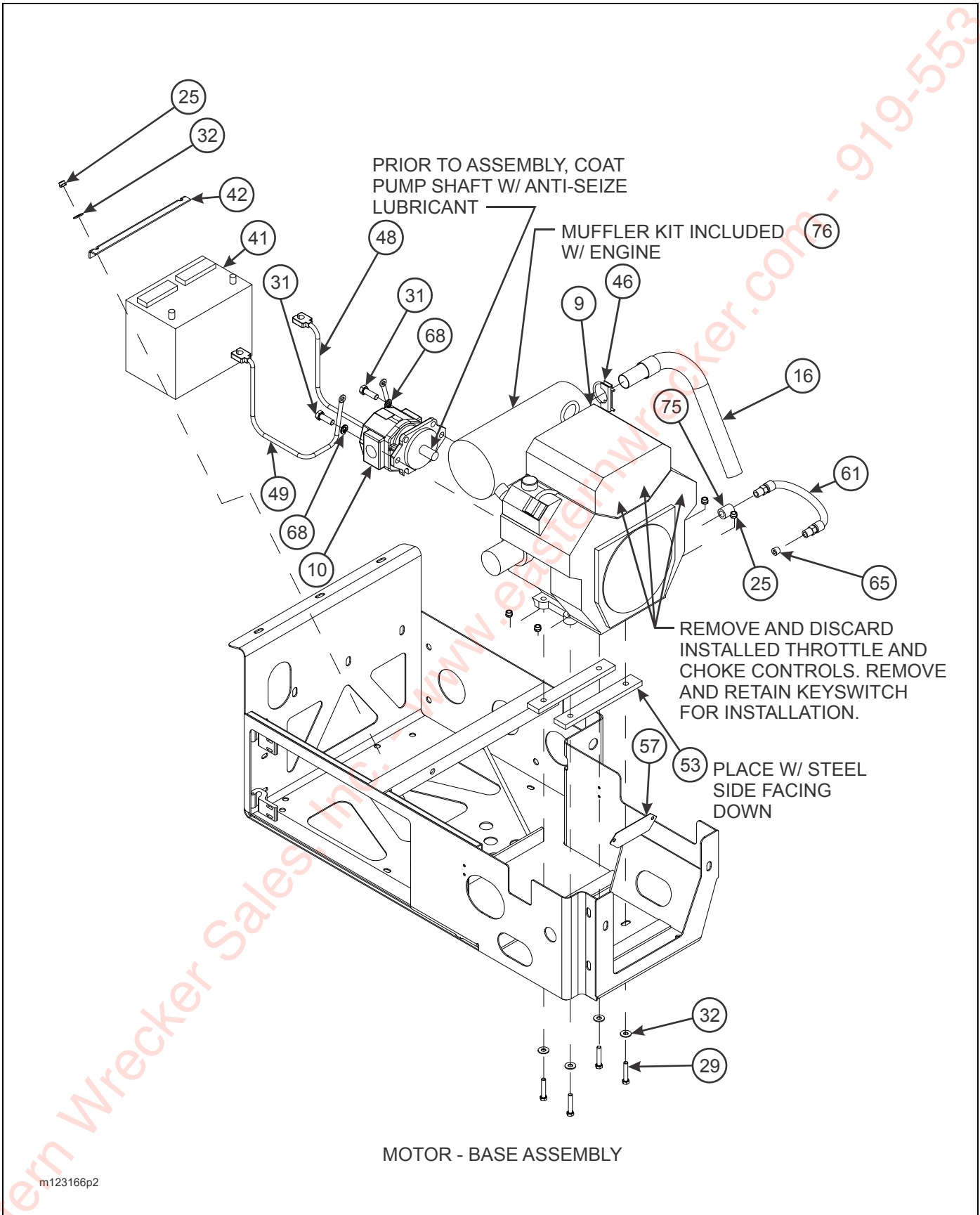
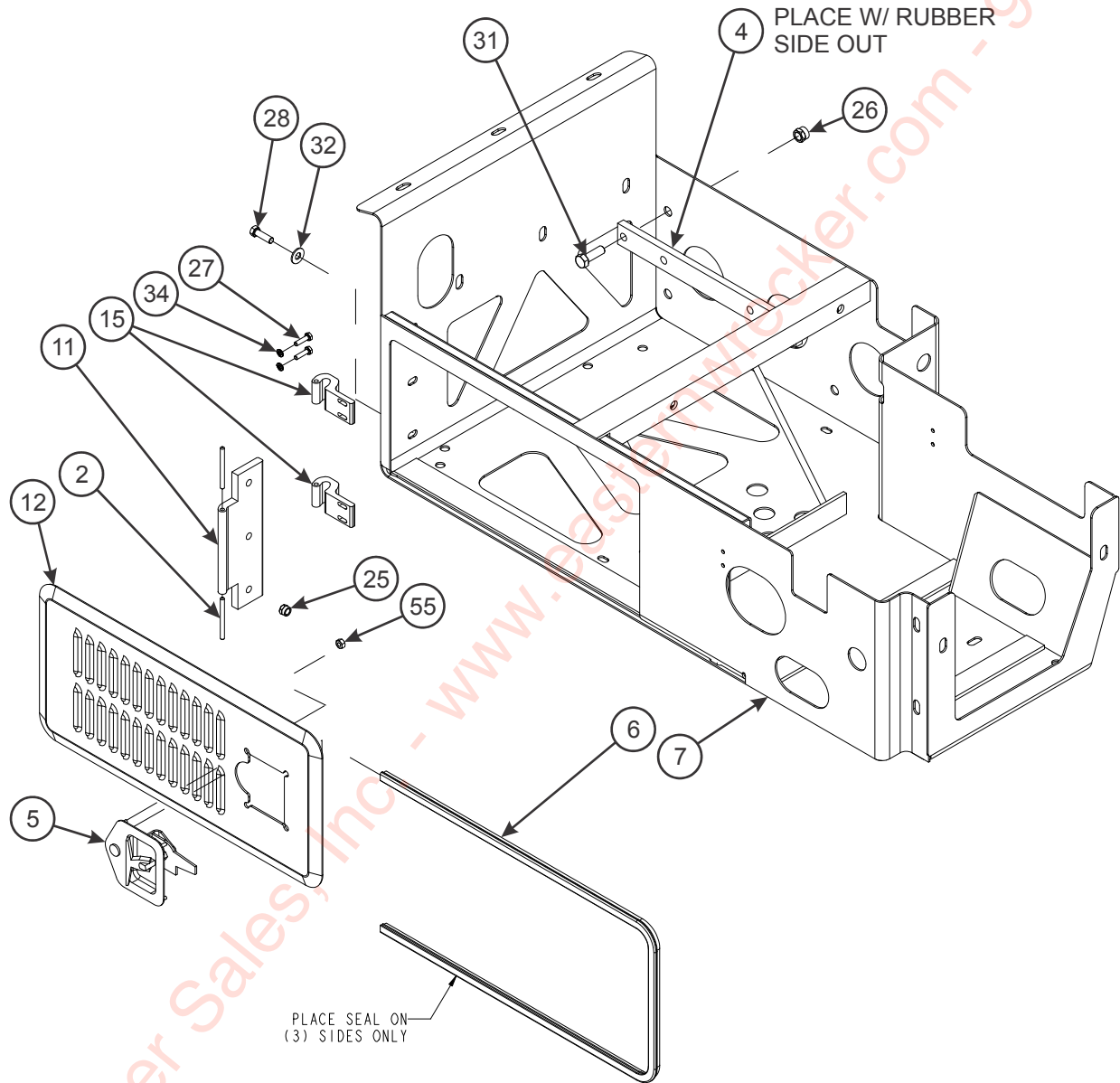


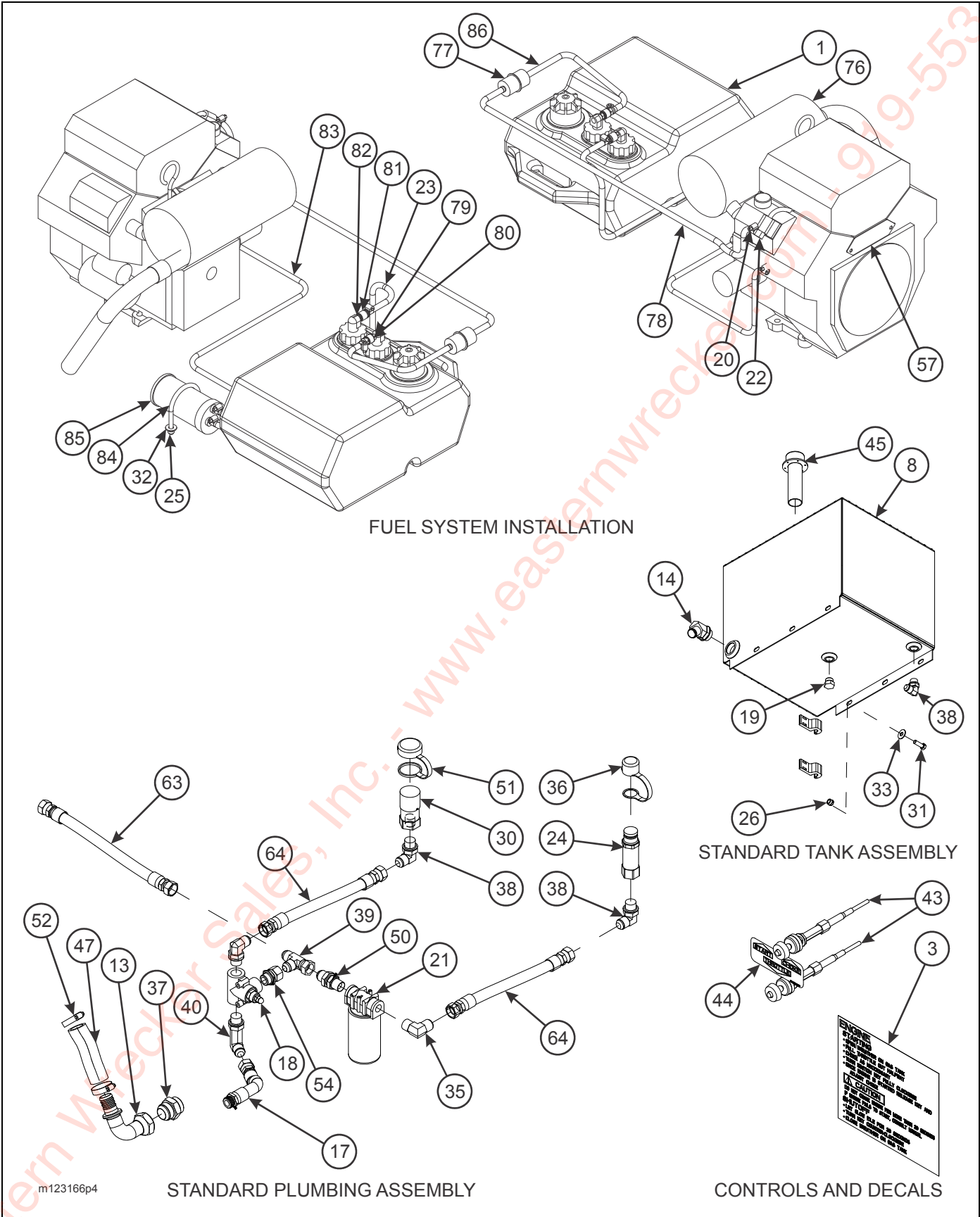
Figure 2-66: Upper Deck Engine Installation (2 of 4)



BASE - DOOR ASSEMBLY

m123166p3

Figure 2-67: Upper Deck Engine Installation (3 of 4)

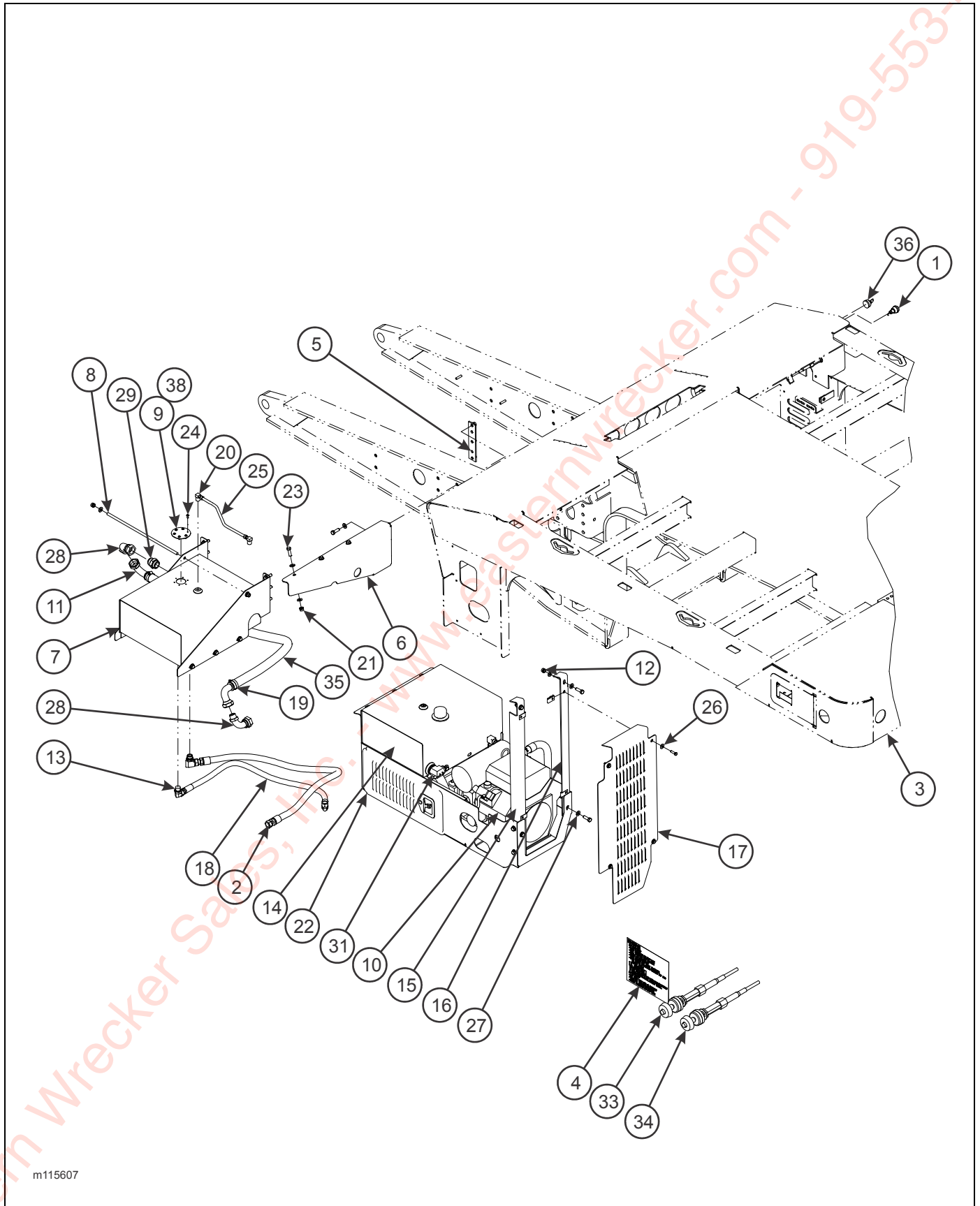


27 HP GAS ENGINE PACKAGE, UPPER DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	123166	27HP GAS ENGINE PACKAGE	
1	169531	TANK, FUEL PLASTIC 6 GAL LOW PERM	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENGINE PACKAGE INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	5
7	120654	MOUNT WELDMENT, ENGINE PACKAGE 25 HP	1
8	129264	HYDRAULIC TANK WELDMENT	1
9	127813	ENGINE, KOHLER 27 HP PUMP MOUNT	1
	3-765-010050	KOHLER IGNITION SWITCH	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING, 45	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	120661	VALVE, HYDRAULIC PRESSURE RELIEF	1
19	900598-12S	PLUG, O-RING	1
20	105-0105	CLAMP, HOSE	6
21	1-295-010001	RETURN LINE FILTER	1
	1-295-010002	FILTER ELEMENT	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	5
24	105479	COUPLER FLAT FACE MALE NOSE	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	15
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	6
30	105480	COUPLER, FLAT FACE FEMALE BODY	1
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
32	1-861-010032-11	WASHER, FLAT 3/8W	19
33	1-861-010032-15	WASHER, FLAT 1/2W	13
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2024-12-12S	ELBOW, 90	1
36	105481	COUPLER, DUST CAP MALE	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	4
39	203102-12-12S	ADAPTER, TEE	1
40	206209-12-12S	ADAPTER, 90	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	128774	CABLE, THROTTLE	2
44	3-573-010506	DECAL, ENGINE CONTROL	1
45	3-162-010001	FILLER-BREATHING-STRAINER ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1

27 HP GAS ENGINE PACKAGE, UPPER DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
47	3-399-010001006	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	105482	COUPLER, DUST FEMALE	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120659	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	123014	PLATE, MOTOR FRONT 25 HP	1
58	113544	HARNESS, ENGINE PACKAGE IGNITION (NOT SHOWN)	2
59	108295	SCREW, HEX HEAD CAP 3/8-16 X 4 GR5	2
61	1-397-010312032	HOSE ASSEMBLY 3/8 X 32	1
62	129287	COVER WELDMENT	1
63	1-397-010304018	HOSE ASSEMBLY 3/4 X 18	1
64	1-397-010304060	HOSE ASSEMBLY 3/8 X 60	2
65	1-560-010002-03	PLUG, PIPE 3/8	1
66	1-512-010004-03	NUT, HEX LOCK 10-24 GRA	8
68	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
69	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	1
70	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	1
72	110-0116	SCREW, RD HEAD CAP 10-24 X 3/4	8
73	110-0253	WASHER, FLAT 3/16	8
74	3-443-010018	LATCH, FLEXIBLE DRAW, LEVER ASSIST	2
75	3/8P COUPL	PIPE COUPLING 3/8 BLACK	1
76	128501	REPLACEMENT MUFFLER KIT	1
77	142270	FUEL FILTER	1
78	169532	HOSE, FUEL 1/4 LOW PERM CARB	5
79	170109	FITTING	1
80	170110	FITTING	1
81	170111	FITTING	1
82	170112	FITTING	1
83	3-316-010008	FUEL HOSE 3/16 ID	5
84	110578	U-BOLT, FENDER MOUNT	1
85	166766	CARBON CANISTER, FUEL TANK	1
86	139553	COUPLER, FUEL TANK	1



m115607

Figure 2-69: 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
	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

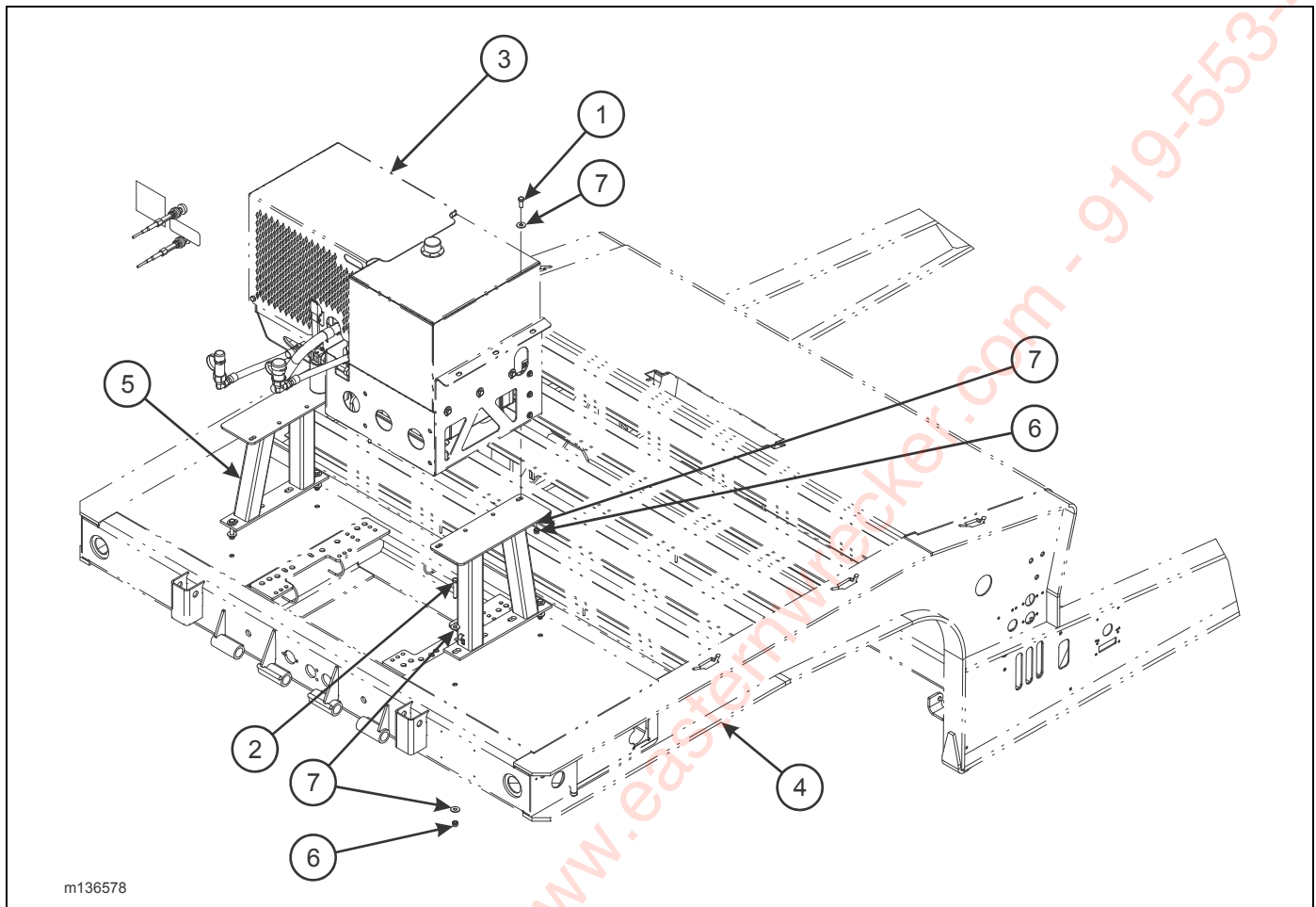


Figure 2-70: Upper Deck Engine Stand Installation

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 2-129)	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

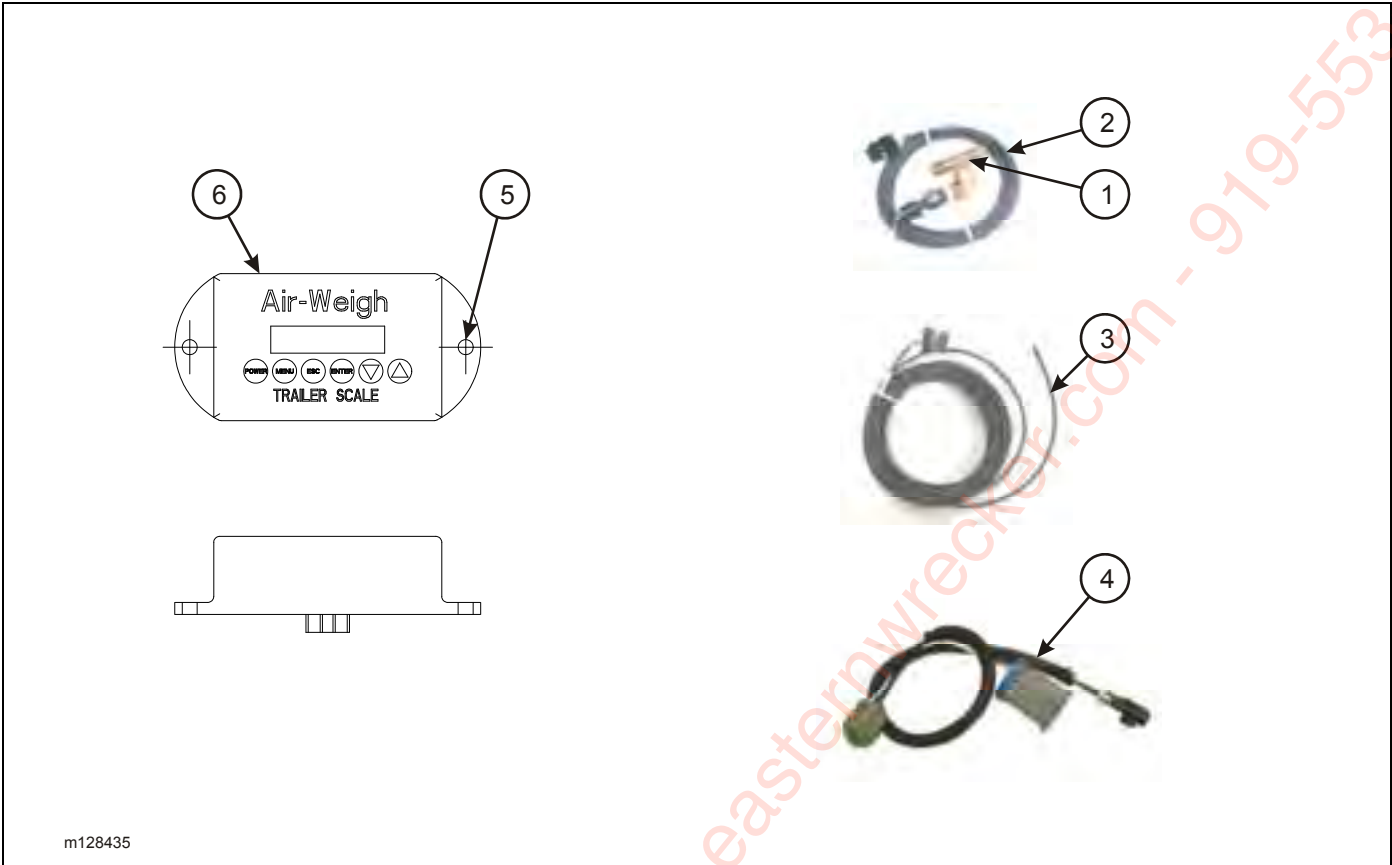


Figure 2-71: Air Digital Scale (Option)

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

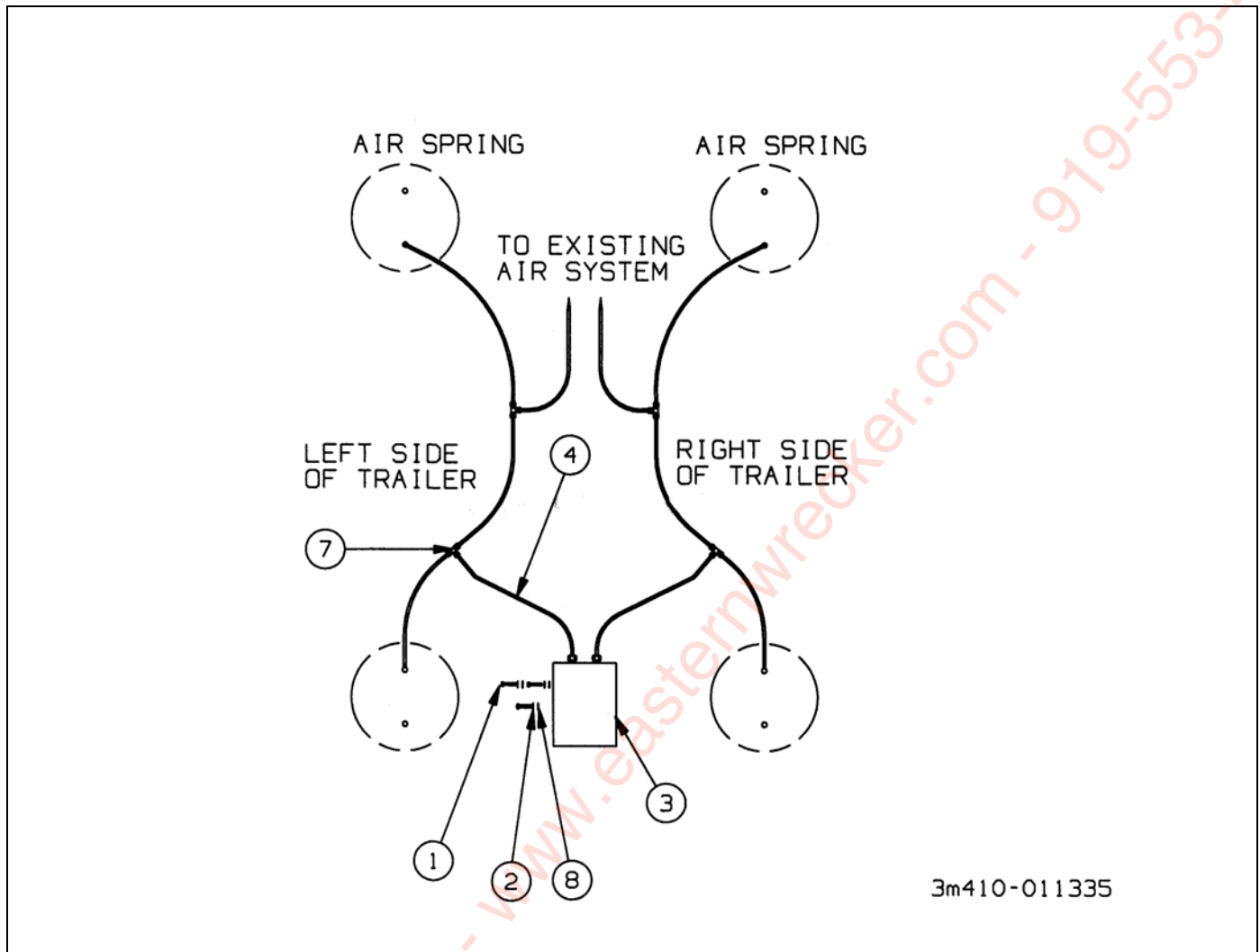


Figure 2-72: Scale-o-matic Installation (Option)

SCALE-O-MATIC INSTALLATION (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-410-011335	SCALE-O-MATIC INSTALLATON 317B	REF
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

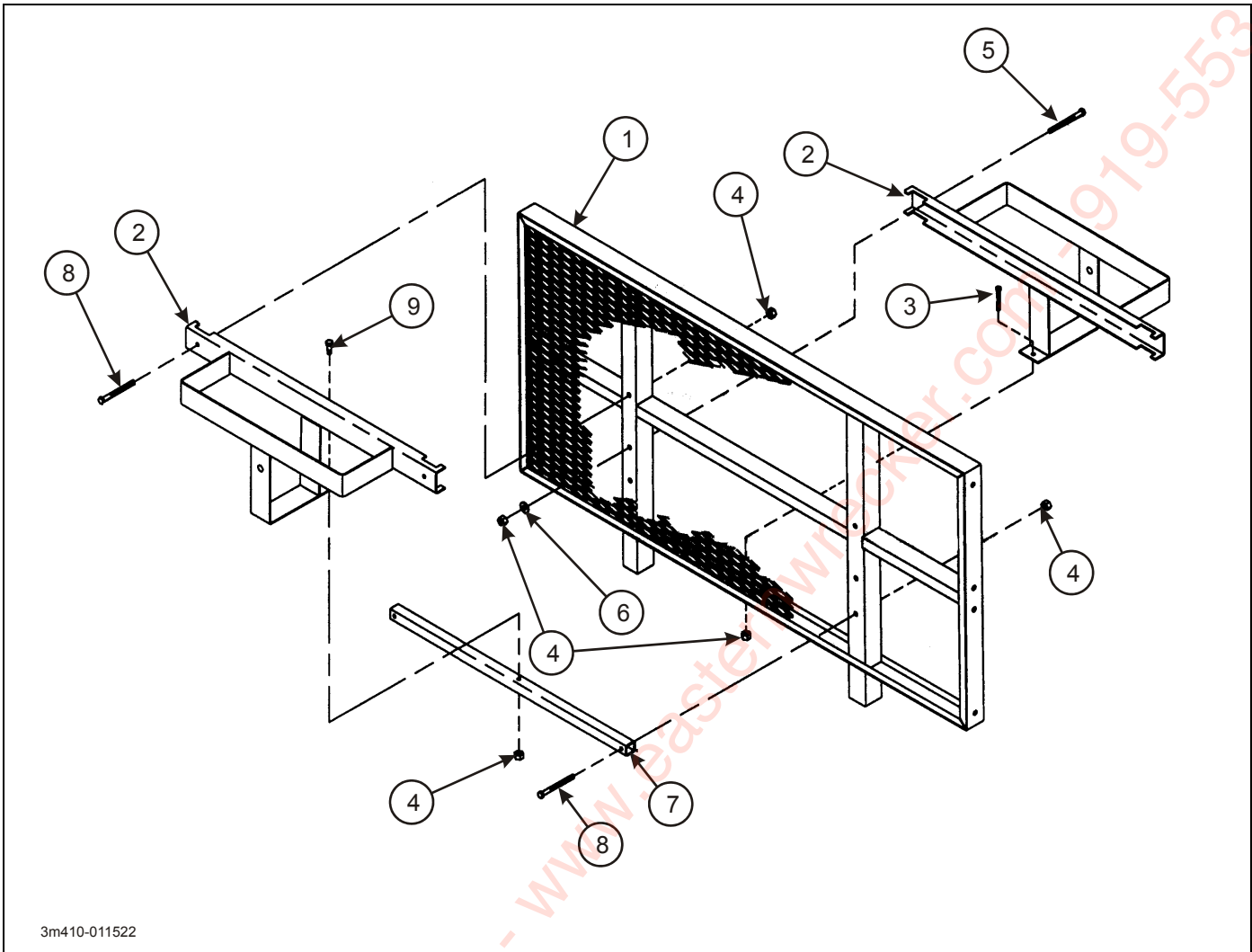


Figure 2-73: Spare Tire Carrier (Option)

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.

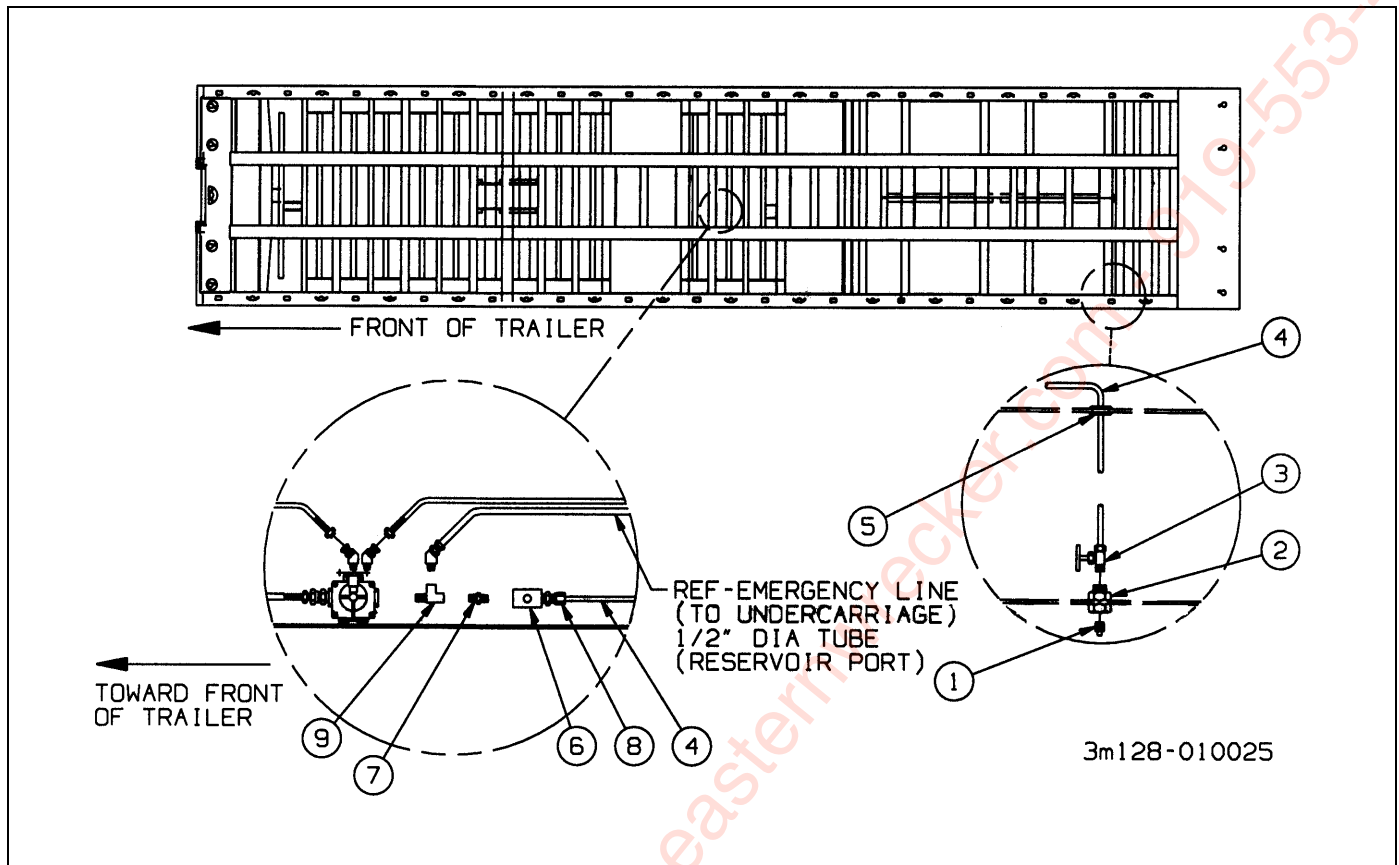


Figure 2-74: Air Outlet Accessory (Option)

AIR OUTLET ASSEMBLY (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010025	AIR OUTLET ACCESSORY	
1	1-560-010002-02	PLUG PIPE	1
2	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
3	A6760S	SHUT OFF VALVE	1
4	1-833-010002	TUBING NYLON	20
5	1-343-010007	GROMMET	1
6	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1
7	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
8	1-297-010007-11	FITTING, AIR	1
9	1-297-010018-04	FITTING, AIR BR TEE	1

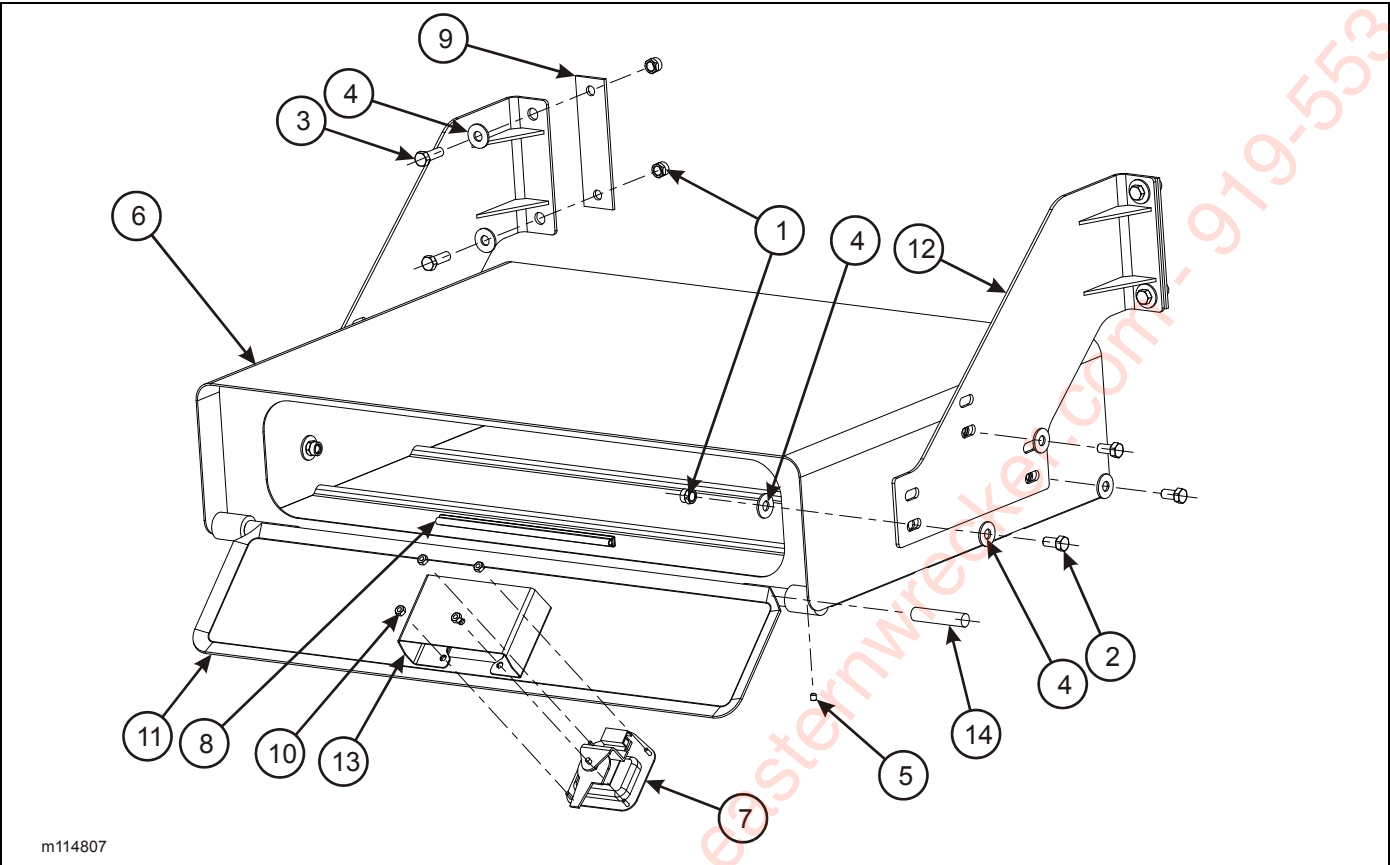


Figure 2-75: Toolbox Installation (Option)

TOOLBOX INSTALLATION (OPTION)

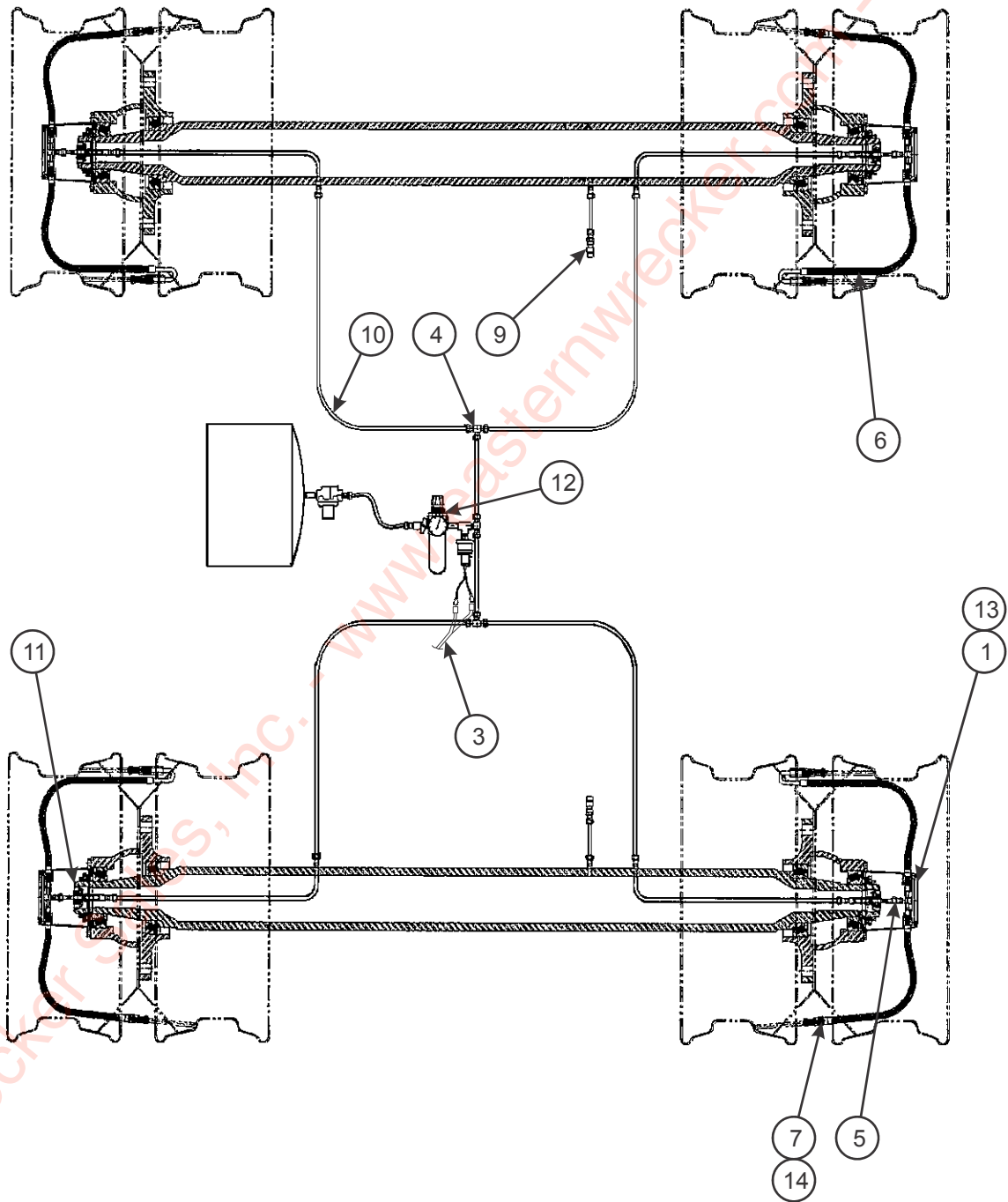
ITEM	PART NO.	DESCRIPTION	QTY.
	114807	TOOLBOX INSTALLATION STEEL DOOR	
	116628	TOOLBOX INSTALLATION ALUMINUM DOOR	1
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	6
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	114808	TOOLBOX WELDMENT	1
7	114814	LATCH FOLDING T LOCKABLE	1
8	114815	SEAL, SPONGE RUBBER TRIM	7
9	115843	BAR, BACKUP TOOLBOX MOUNTING	2
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX	1
	116624	DOOR WELDMENT ALUMINUM TOOLBOX	1
12	117860	BRACKET, WELDMENT TOOLBOX MOUNTING	2
13	153420	TOOLBOX LATCH SHIELD	1
14	RPRB59004X3H	BAR, ROUND 3/4 X 3-1/2 NYLATRON	2



Figure 2-76: Rear Strobe Light Installation (Option)

REAR STROBE LIGHT INSTALLATION (OPTION)

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



m135346

Figure 2-77: Tire Inflation System (Option)

TIRE INFLATION SYSTEM (OPTION)

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
	148417	TRIPLE AXLE HARDWARE KIT (137791)	1
		(KITS INCL TEES, TUBE STRAIN RELIEF, SCREWS, PRESSURE RELIEF VALVE, WARNING LIGHT, AND ELECTRICAL PARTS)	
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

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