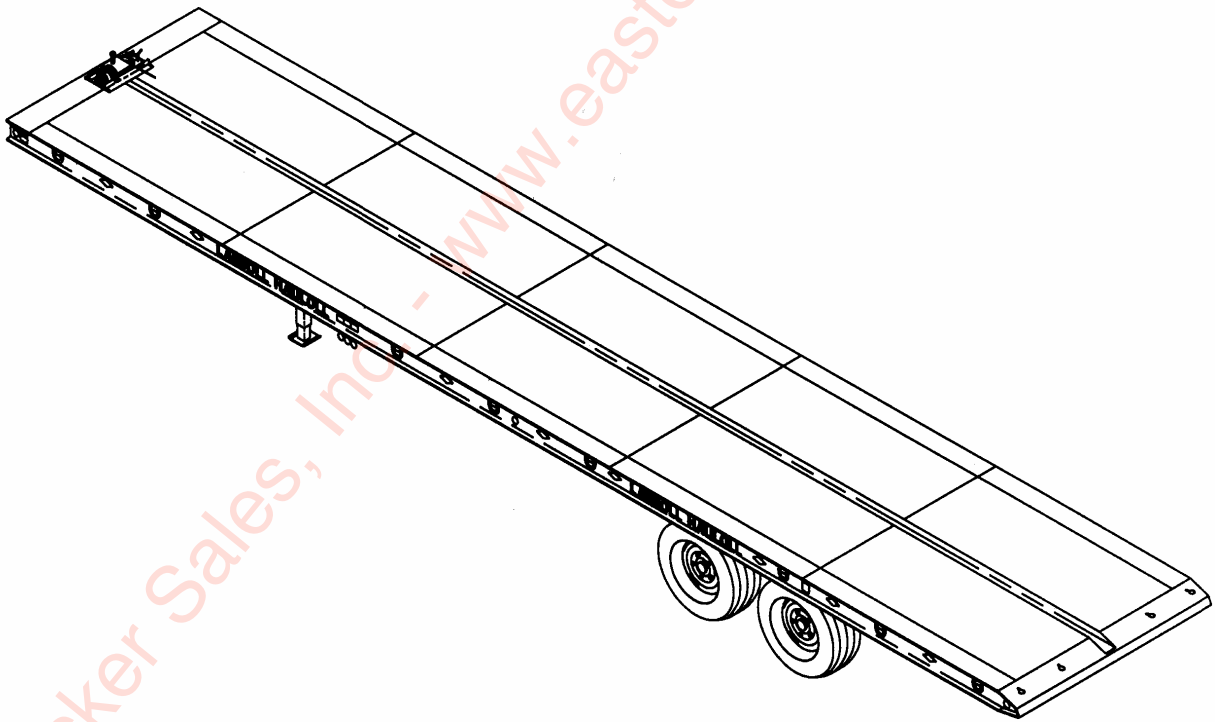




**MODEL 330B
SEMITRAILER
PARTS LIST MANUAL**



**1900 North Street
Marysville, KS 66508
(785)562-5381**

ILLUSTRATED PARTS LIST

1

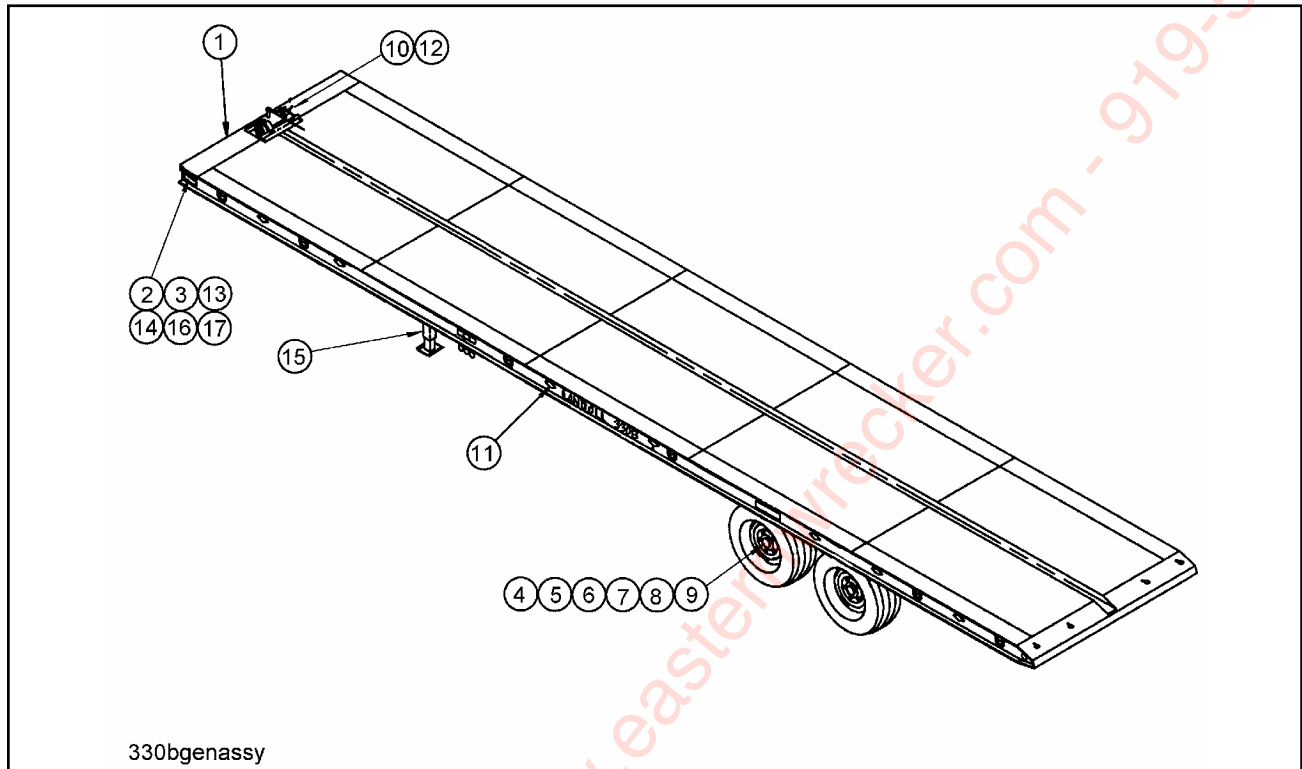


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PAGE NO.	DESCRIPTION	QTY.
1	1-2	FIFTH WHEEL ASSEMBLY	1
2	1-3-1-12; 1-14-1-15	HYDRAULIC ASSEMBLIES	1
3	1-16 - 1-23	ELECTRICAL ASSEMBLIES	1
4	1-24 - 1-29	UNDERCARRIAGE & SUSPENSION - SPRING RIDE	1
5	1-30 - 1-37	UNDERCARRIAGE & SUSPENSION - AIR RIDE	1
6	1-38 - 1-39	AXLE AND BRAKE ASSEMBLY	1
7	1-40 - 1-45	AIR BRAKE SYSTEM	1
8	1-46 - 1-47	HUB AND DRUM ASSEMBLY	2
9	1-48 - 1-49	AIR SYSTEM	1
10	1-50 - 1-66	WINCH ASSEMBLIES	1
11	1-67 - 1-69	DECAL INSTALLATION	1
12	1-70 - 1-71	HYDRAULIC WET KIT ASSEMBLY (OPTION)	1
13	1-72 - 1-83	AUXILIARY ENGINE ASSEMBLIES (OPTION)	1
14	1-13;1-84-1-87;1-92	MISCELLANEOUS OPTIONS	AR
15	1-88 - 1-91	LANDING GEAR ASSEMBLIES	1
16	1-116-010019	BOX MANUAL STORAGE	1
17	105-0093	HOSE CLAMP 4-1/2	1

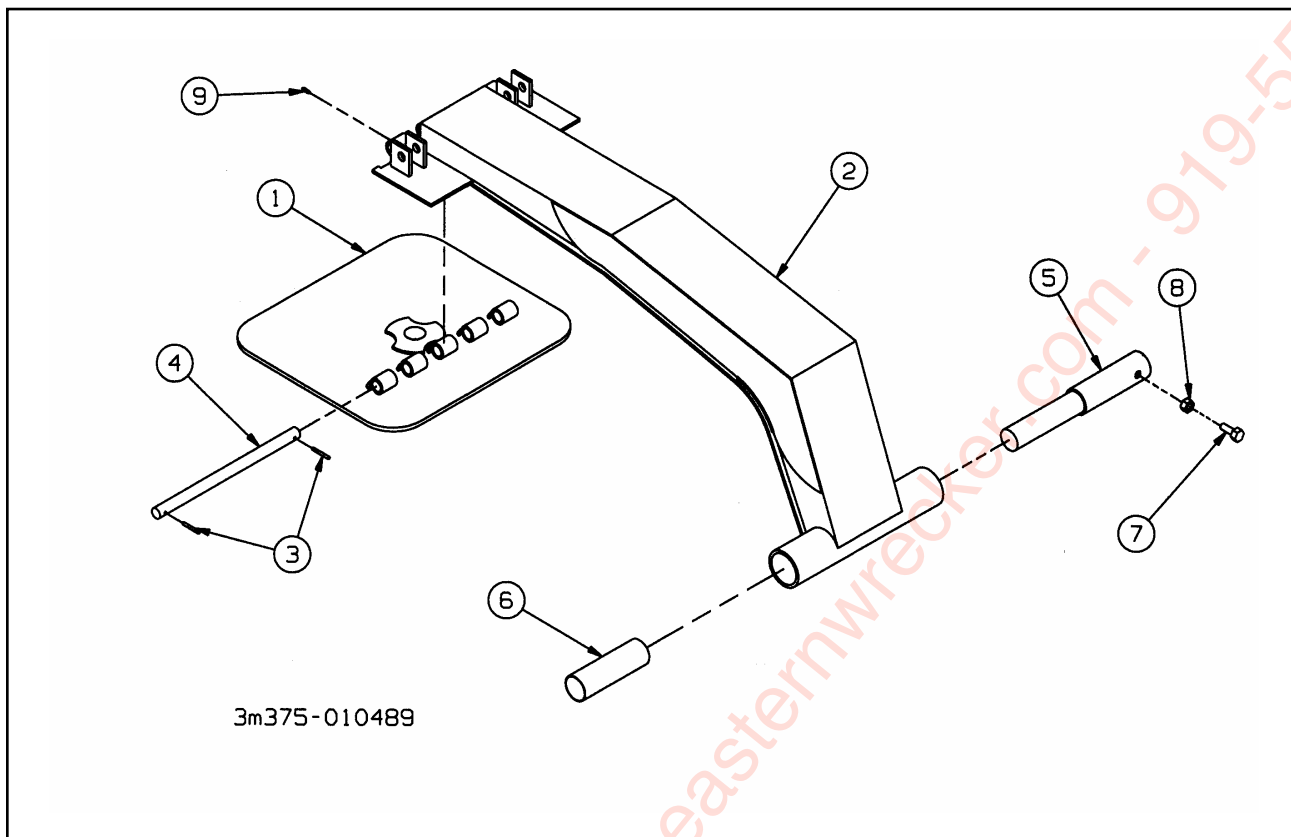


Figure 1-2 Fifth Wheel Assembly

FIFTH WHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-375-010489-3	HITCH INSTALLATION 30 PIN 330-42 TRL	
	3-375-010489-4	HITCH INSTALLATION 30 PIN 330-48 TRL	
	114547	HITCH INSTALLATION 24 PIN 330-42 TRL	
	114548	HITCH INSTALLATION 24 PIN 330-48 TRL	
1	3-375-010250	HITCH PLATE 24"/30" KING PIN	1
	3-375-010349	HITCH PLATE 18" KING PIN	1
2	3-375-010292	HITCH ASSEMBLY CONTAINER HAULER	1
3	1-647-010004255	SPRING PIN SLOTTED 3/8 X2	2
4	3-557-010030	HINGE PIN FIFTH WHEEL	1
5	3-826-010015	TUBE WELDMENT INNER FIFTH WHEEL	1
6	3-826-010014	TUBE INNER HINGE FIFTH WHEEL	1
7	1-654-010061-07	SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5	2
8	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	2
9	1-298-010001-1	FITTING GRS STR SHORT 1/4-28	6

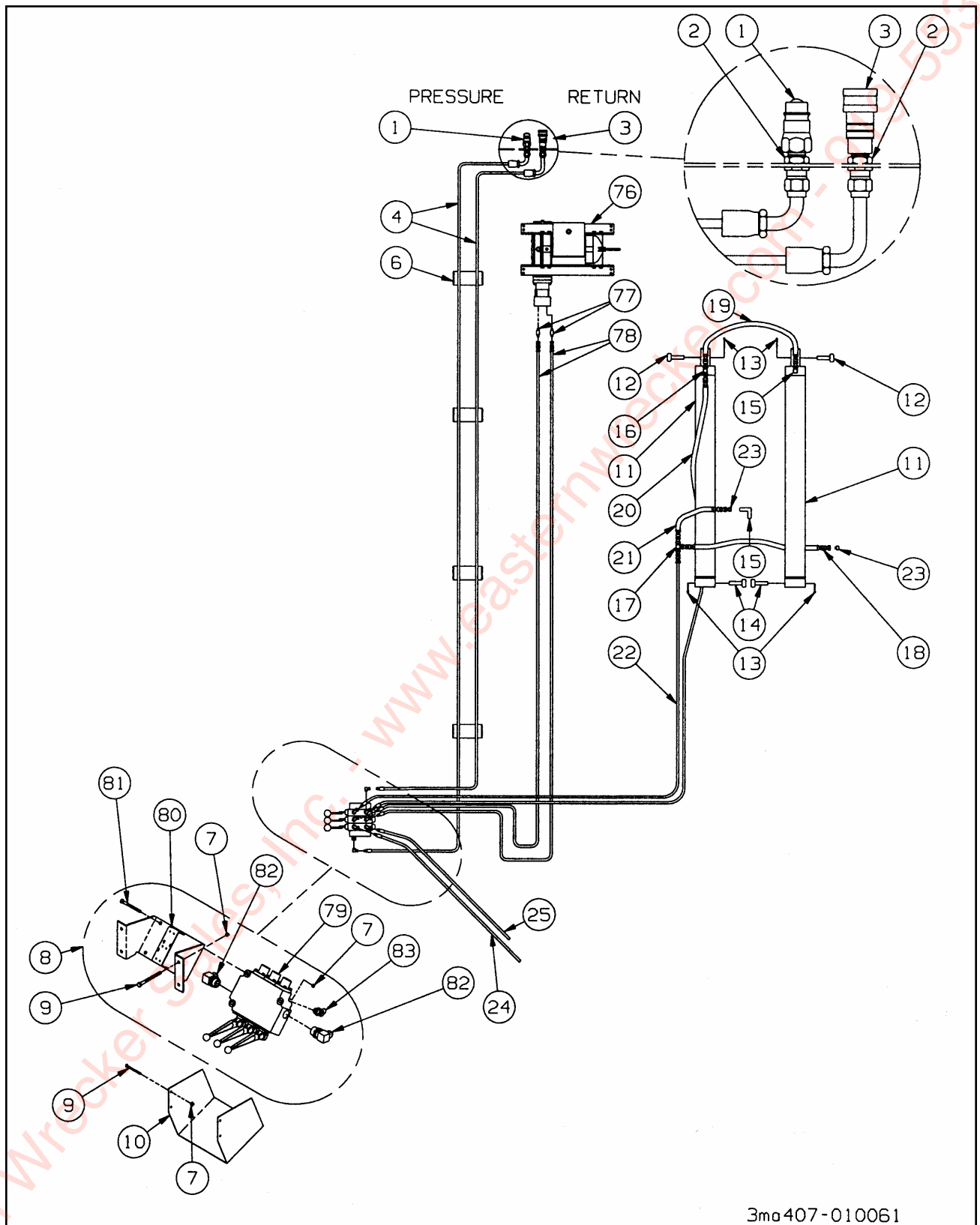
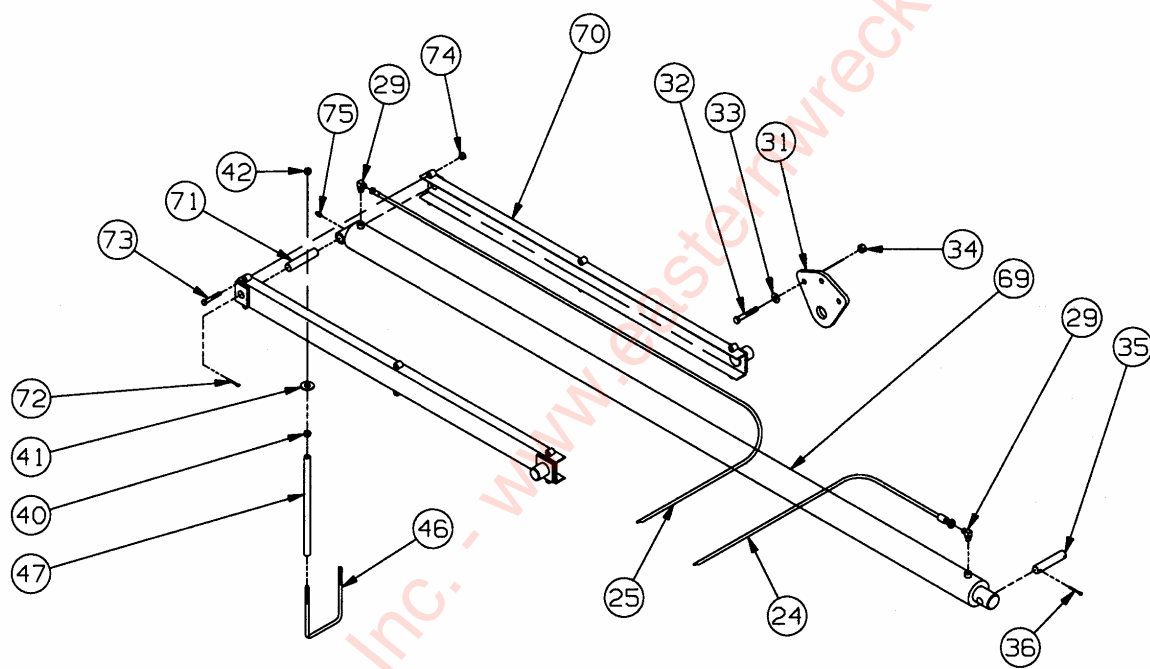


Figure 1-3 Hydraulic System



STANDARD LOAD OPTION---(26)

3mb407-010061

Figure 1-4 Hydraulic System - Std. Load Angle Option

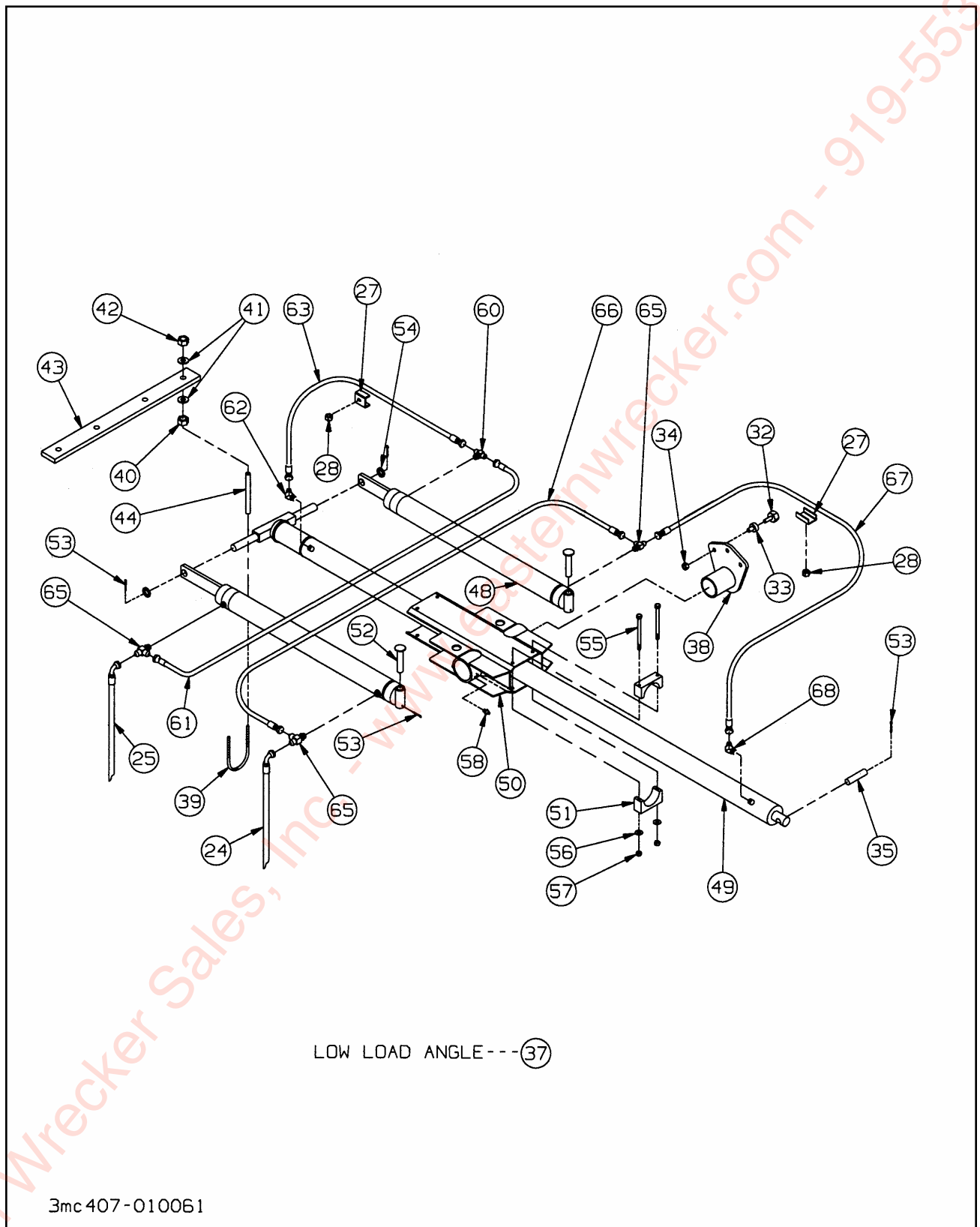


Figure 1-5 Hydraulic System - Low Load Angle Option

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010061	HYDRAULIC INSTALLATION CONTROLS (ITEMS 1-10)	
	3-375-010489-3	HITCH INSTALLATION - 42' TRAILER (ITEMS 11-23)	
	3-375-010489-4	HITCH INSTALLATION - 48' TRAILER (ITEMS 11-23)	
	3-407-010038-09	HYDR. INST. U/C 330 SLA (ITEMS 24-47)	
	3-407-010038-10	HYDR. INST. U/C 330 LLA (ITEMS 24-47)	
	3-873-010166	WINCH INSTALLATION 12K/20K (ITEMS 76-78)	
1	105479	COUPLER, FLAT FACE MALE	1
	105481	COUPLER, DUST CAP MALE	1
2	105483	ADAPTER BULKHEAD 12JIC-12ORING	2
3	105480	COUPLER, FLAT FACE FEMALE	1
	105482	COUPLER, DUST CAP FEMALE	1
4	1-397-010305254	HOSE ASSEMBLY	2
	100064	HOSE ASSEMBLY	2
6	3-181-010006	HOSE CLAMP	REF
7	1-510-010001	NUT FLANGE LOCK 3/8-16	8
8	3-846-010152-01	VALVE ASSY 3 SPOOL (STD ASSEMBLY) (SEE PAGE 1-11)	1
	3-846-010152-05	VALVE ASSY 3 SPOOL (SGL REMOTE) (SEE PAGE 1-11)	1
	3-846-010152-08	VALVE ASSY 3 SPOOL (DUAL REMOTE)(SEE PAGE 1-11)	1
	3-846-010152-10	VALVE ASSY 3 SPOOL (TRPL REMOTE) SEE PAGE 1-11)	1
9	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	8
10	3-681-010122	SHIELD, CONTROL VALVE	1
11	3-242-010099	CYLINDER HYDR 4X42 (SEE PAGE 1-8)	2
12	3-557-010059	PIN CYL ROD END	2
13	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	4
14	3-557-010033	PIN CYLINDER BUTT END	2
15	2062-8-8S	ADAPTER 90	3
16	203003-8-8S	ADAPTER TEE	1
17	2033-8-8S	ADAPTER TEE	1
18	1-397-010301048	HOSE ASSEMBLY	1
19	107756	HOSE ASSEMBLY 24 STR-90	1
20	1-397-010301220	HOSE ASSEMBLY (42')	1
	1-397-010301268	HOSE ASSEMBLY (48')	1
21	1-397-010301028	HOSE ASSEMBLY	1
22	1-397-010301122	HOSE ASSEMBLY (42')	1
	1-397-010301194	HOSE ASSEMBLY (48')	1
23	3-846-010156	VALVE RESTRICTOR 3/64-ONE WAY (DIRECT REPLACEMENT)	2
24	100063	HOSE ASSEMBLY (STD LOAD ANGLE)	1
	1-397-010302112	HOSE ASSEMBLY (LOW LOAD ANGLE)	1
25	1-397-010301130	HOSE ASSEMBLY (STD LOAD ANGLE)	1
	1-397-010302042	HOSE ASSEMBLY (LOW LOAD ANGLE)	1
26	3-242-010153	CYLINDER ASSY (STD LOAD ANGLE)(ITEMS 69-75)	1
27	2-181-010001	HOSE CLAMP (LOW LOAD ANGLE)	2
28	1-510-010001	NUT FLANGE LOCK 3/8-16 (LOW LOAD ANGLE)	2
29	2062-8-8S	ADAPTER 90 (STD LOAD ANGLE)	2
30	1-796-010003-02	TY-WRAP (STD LOAD ANGLE) (NOT SHOWN)	12
31	3-125-010241	BRACKET CYL MOUNT (STD LOAD ANGLE)	2
32	1-654-010061-06	SCREW HEX HEAD CAP 3/4-10 X 2-1/4 GR5	6
33	3-861-010038	WASHER STEP	6
34	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	6
35	3-557-010120	PIN UNDERCARRIAGE CYLINDER	1
36	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	2
37	3-242-010152-02	CYLINDER ASSY (LOW LOAD ANGLE)(ITEMS 48-68)	1
38	3-125-010244	BRACKET WLDMT CYL TRUN (LOW LOAD ANGLE)	2
39	3-102-010022	U BOLT CYL SUPPORT (LOW LOAD ANGLE)	2
40	1-512-010007-09	NUT 1/2-13 GR2	2,4*

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
41	1-861-010032-15	WASHER FLAT 1/2 W	4,8*
42	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	2,4*
43	3-146-010001	RUBBER BUMPER CYLINDER (LOW LOAD ANGLE)	1
44	1-397-010010016	HOSE HYDRAULIC 1/2 X16 (LOW LOAD ANGLE)	2
46	3-102-010048	U-BOLT 7-5/8 X 10 (STD LOAD ANGLE)	1
47	2750-8	HOSE AIR BRAKE 1/2 X 20 (STD LOAD ANGLE)	1.666
48	3-242-010099	HYDRAULIC CYLINDER WELDMENT (SEE PAGE 1-8)	2
49	3-242-010103	CYLINDER HYD 4 X 126 (SEE PAGE 1-9)	1
50	3-120-010125	CYLINDER TRUNNION ASSEMBLY	1
51	3-120-010117	NYLATRON BEARING	4
52	3-557-010031	PIN CYLINDER BUTT END	2
53	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	4
54	3-150-010223	BUSHING	2
55	1-654-010059-21	SCREW HEX HEAD CAP 5/8-11 X 8 GR5	4
56	1-861-010032-19	WASHER FLAT 5/8W	4
57	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
58	1-298-010001-1	FITTING	4
59	1-161-010033-04	CAP PLASTIC TAPERED 1/2	2
60	203003-8-8S	ADAPTER TEE	1
61	1-397-010301039	HOSE ASSEMBLY	1
62	2061-8-8S	ADAPTER 45	1
63	1-397-010302070	HOSE ASSEMBLY	1
65	203005-8-8S	ADAPTER TEE	3
66	1-397-010301042	HOSE ASSEMBLY	1
67	107486	HOSE ASSEMBLY	1
68	2062-8-8S	ADAPTER 90	1
69	3-242-010102	CYL HYD 4X126 O-RING (SEE PAGE 1-9)	1
70	3-120-010073	BRKT ASSY CYLINDER TRUNNION	2
71	3-557-010033	PIN CYLINDER BUTT END	1
72	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	1
73	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5	6
74	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
75	1-298-010001-1	FITTING GREASE 1/4-28	1
76	3-873-010126-2	WINCH ASSEMBLY 12,000 LB (SEE PAGE 1-51)	1
	3-873-010129-2	WINCH ASSEMBLY 20,000 LB (SEE PAGE 1-51)	1
77	202702-10-8S	ADAPTER	2
78	1-397-010302240	HOSE ASSEMBLY	2
	100062	HOSE ASSEMBLY	2
	1-397-010302172	HOSE ASSEMBLY	2
79	3-846-010008	VALVE 3-SPOOL (SEE PAGE 1-15)	REF
80	3-482-010575	MOUNT WELDMENT, VALVE	REF
81	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	REF
82	2062-12-12S	ADAPTER 90	REF
83	2061-8-8S	ADAPTER 45	REF

* THE FIRST QUANTITY LISTED IS FOR THE STANDARD LOAD ANGLE, THE SECOND QUANTITY IS FOR THE LOW LOAD ANGLE.

NOTE: IF ONLY ONE QUANTITY IS LISTED, QUANTITY APPLIES TO BOTH STD AND LOW LOAD ANGLE UNLESS OTHERWISE DESIGNATED IN THE DESCRIPTION.

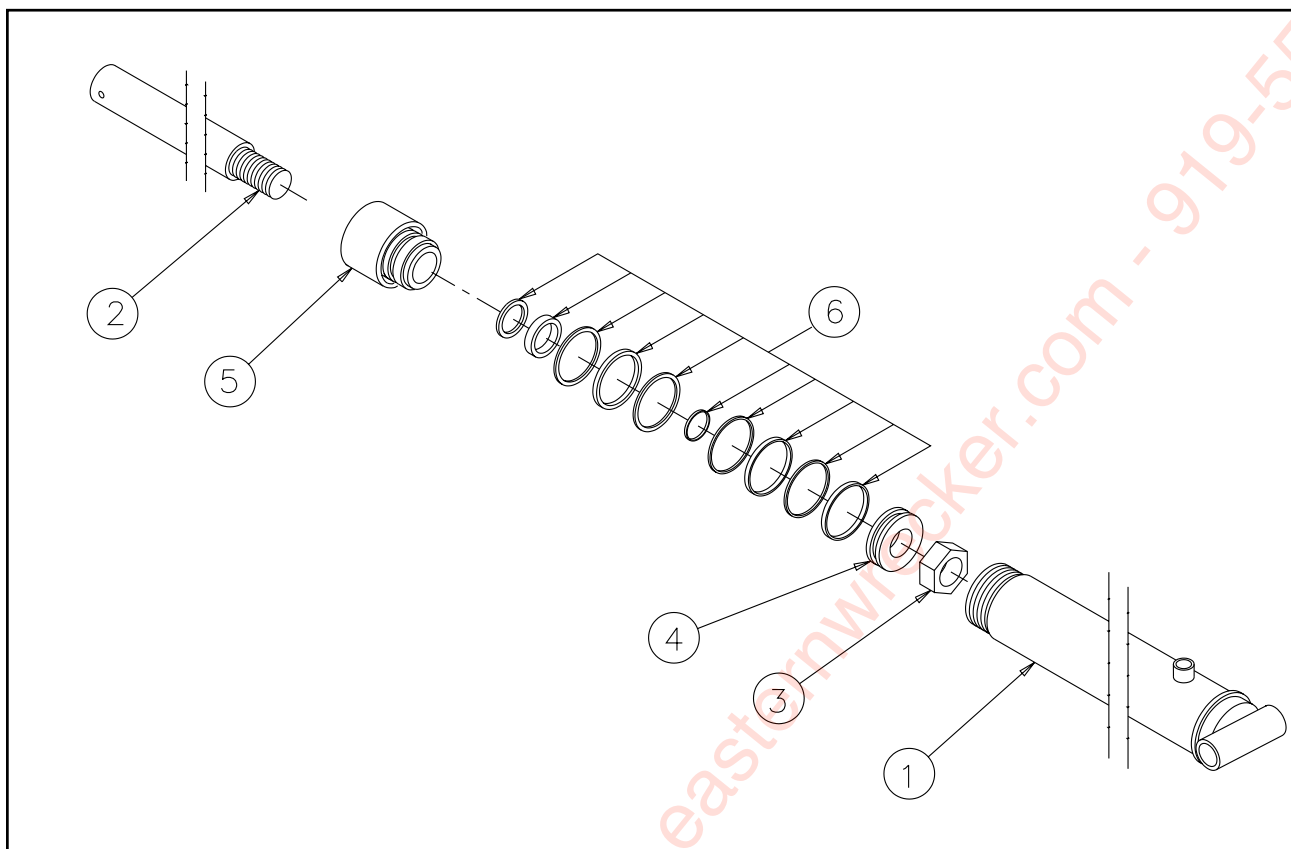


Figure 1-6 Trailer Tilt Cylinder Assembly

TRAILER TILT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010099	CYL. HYDR 4"X42" (TILT CYLINDER)	1
	3-242-010118	CYL. HYDR 4"X42"(LOW LOAD CYL FOR UNDERCARRIAGE)	1
1	*	BUTT AND TUBE ASSEMBLY	1
1A	*	BUTT AND TUBE ASSEMBLY (ALTERED PER 3-242-010099)	1
2	011100550	PISTON ROD	1
3	220000212	LOCKNUT (1-1/4 - 12)	1
4	071900048	PISTON	1
5	081900295	GLAND	1
	230007400	RETAINER SQUARE WIRE	1
6	PMCK-AD-460	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	AIR

* PART NOT SOLD SEPARATELY. REQUIRES PURCHASE OF ENTIRE ASSEMBLY.

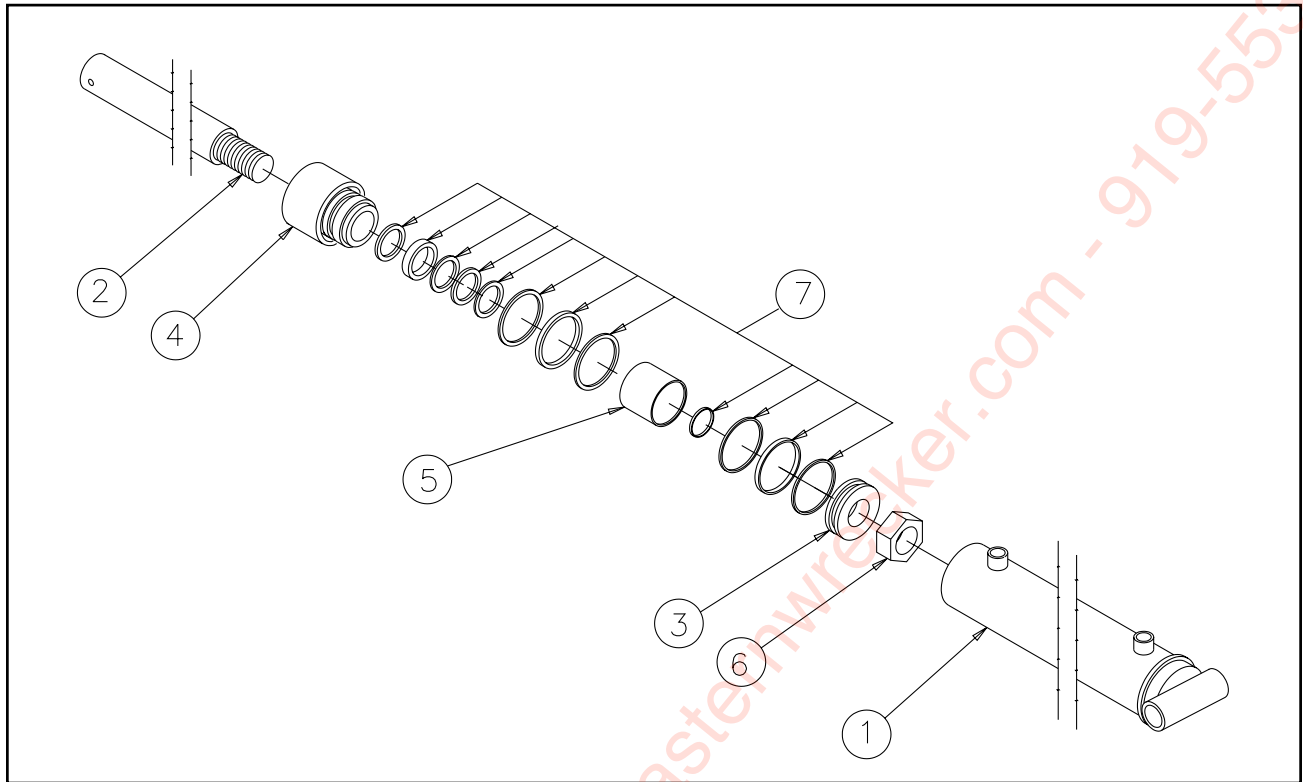
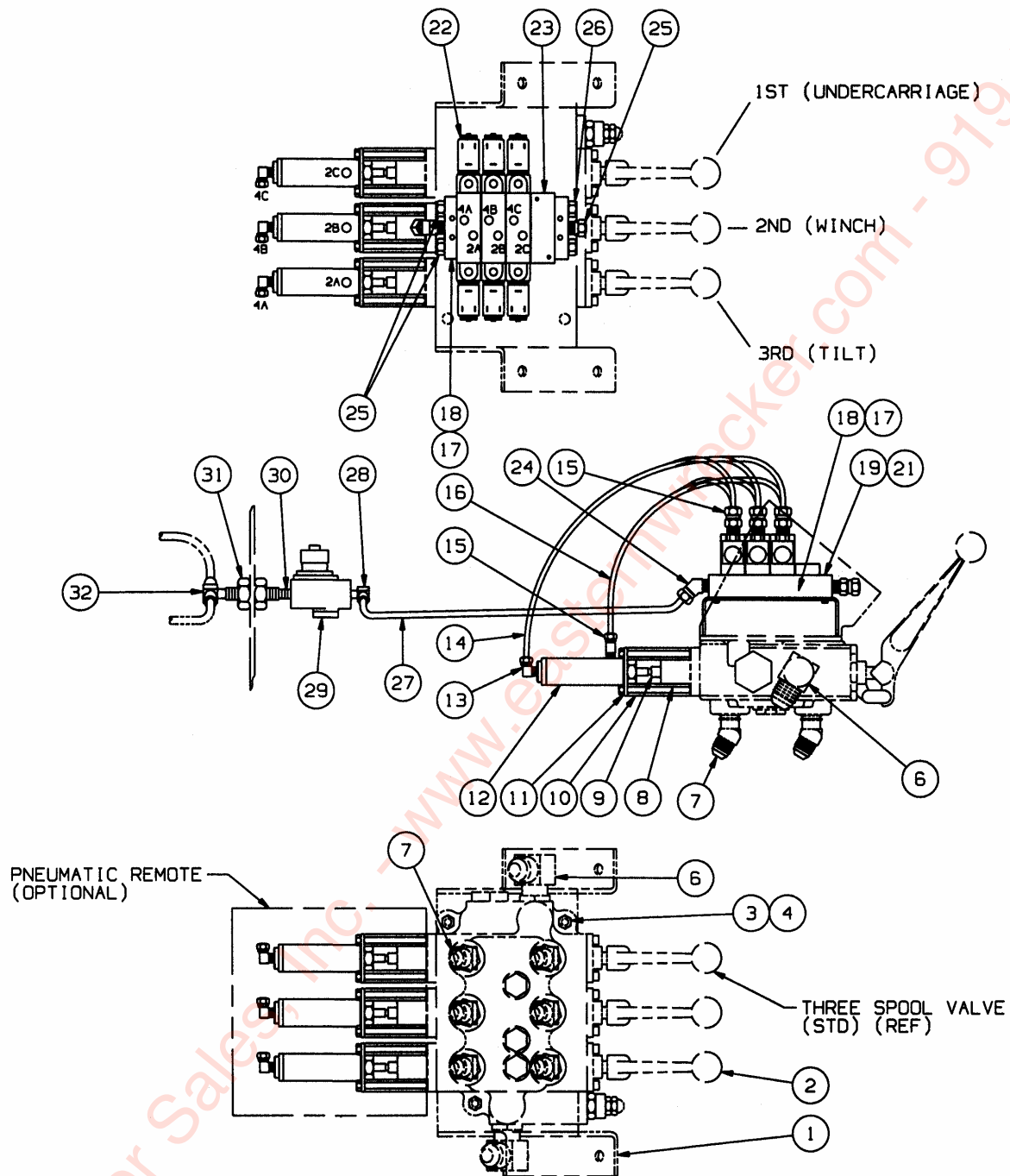


Figure 1-7 Undercarriage Slide Cylinder Assembly

UNDERCARRIAGE SLIDE CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010102	CYL. HYDR. 4"X126" (STANDARD LOAD ANGLE)	1
	3-242-010103	CYL. HYDR. 4"X126" (LOW LOAD ANGLE)	1
1A	*	BUTT AND TUBE ASSEMBLY	1
1B	*	BUTT AND TUBE ASSEMBLY (ALTERED PER 3-242-010102)	1
2	011300179	PISTON ROD	1
3	071900195	PISTON	1
4	081900277	GLAND	1
	230007400	RING SQUARE RETAINING	1
5	211300024	SPACER	1
6	220000212	LOCKNUT PISTON RING	1
7	PMCK-AD-461	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

* PART NOT SOLD SEPARATELY, REQUIRES PURCHASE OF ENTIRE ASSEMBLY.



3mf846-010152

Figure 1-8 Valve Assembly, Three Spool

VALVE ASSEMBLY THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY			
			-01	-05	-08	-10
	3-846-010152-01	VALVE ASSEMBLY 3-SPOOL STANDARD	*			
	3-846-010152-05	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND SPOOL		*		
	3-846-010152-08	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND/3RD SPOOL			*	
	3-846-010152-10	VALVE ASSEMBLY 3-SPOOL REMOTE 3 SPOOLS				*
1	3-482-010575	MOUNT WELDMENT VALVE	1	1	1	1
2	3-846-010008	VALVE 3-SPL 2500 PSI (SEE PAGE 1-15)	1	1	1	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 GR5	3	3	3	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	3	3
6	2062-12-12S	ADAPTER 90	2	2	2	2
7	2061-8-8S	ADAPTER 45	6	6	6	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	-	1	2	3
9	3-007-010039	ADAPTER AIR CYLINDER	-	1	2	3
10	3-711-010055	SPACER MALE-FEMALE	-	4	8	12
11	3-482-010288	MOUNT AIR CYLINDER VALVE	-	1	2	3
12	3-238-010001	CYLINDER AIR	-	1	2	3
13	1-297-010008-01	FITTING AIR 90	-	1	2	3
14	NB-2-016	TUBING NYLON FLEX 18	-	1	2	3
15	68CA-2-2	CONNECTOR	-	3	6	9
16	NB-2-016	TUBING NYLON FLEX	-	1	2	3
17	3-843-010023	VALVE PNEU MANF- 2 STATION (NO PARTS BREAKDOWN)	-	-	-	1
18	3-843-010025	VALVE PNEU MANF- 4 STATION (NO PARTS BREAKDOWN)	-	1	1	-
19	1-654-010024014	SCREW MACH FLSTR 6-32X1-1/2	-	4	4	4
21	1-512-010003-02	NUT HEX LOCK W/ NYLON #6-32	-	4	4	4
22	3-843-010015	VALVE PNEU 4-WAY, 3-POS (SEE PAGE 1-12)	-	1	2	3
23	3-843-010024	VALVE BLANK STATION COVER	-	1	-	1
24	1-297-010013-05	FITTING AIR	-	1	1	1
25	1-297-010033-02	FITTING BRASS PLUG HEX	-	3	3	3
26	3-136-010001-02	BREATHER PNEUMATIC EXHAUST	-	2	2	2
27	1-833-010001	NYLON TUBING 1/4 OD	3'	3'	3'	3'
28	1-297-010008-07	FITTING AIR 90 1/4 TUBE X 1/4 NPT	1	1	1	1
29	905-54-107	VALVE AND FILTER PRESSURE	1	1	1	1
30	1-297-010020-02	FITTING BRS PIPE CL NIP 1/4	1	1	1	1
31	1-297-010022-02	FITTING AIR ANCHOR CPLG 1/4 NPT	1	1	1	1
32	1-297-010015-09	FITTING AIR BR TEE 1/2T X 1/4P	1	1	1	1

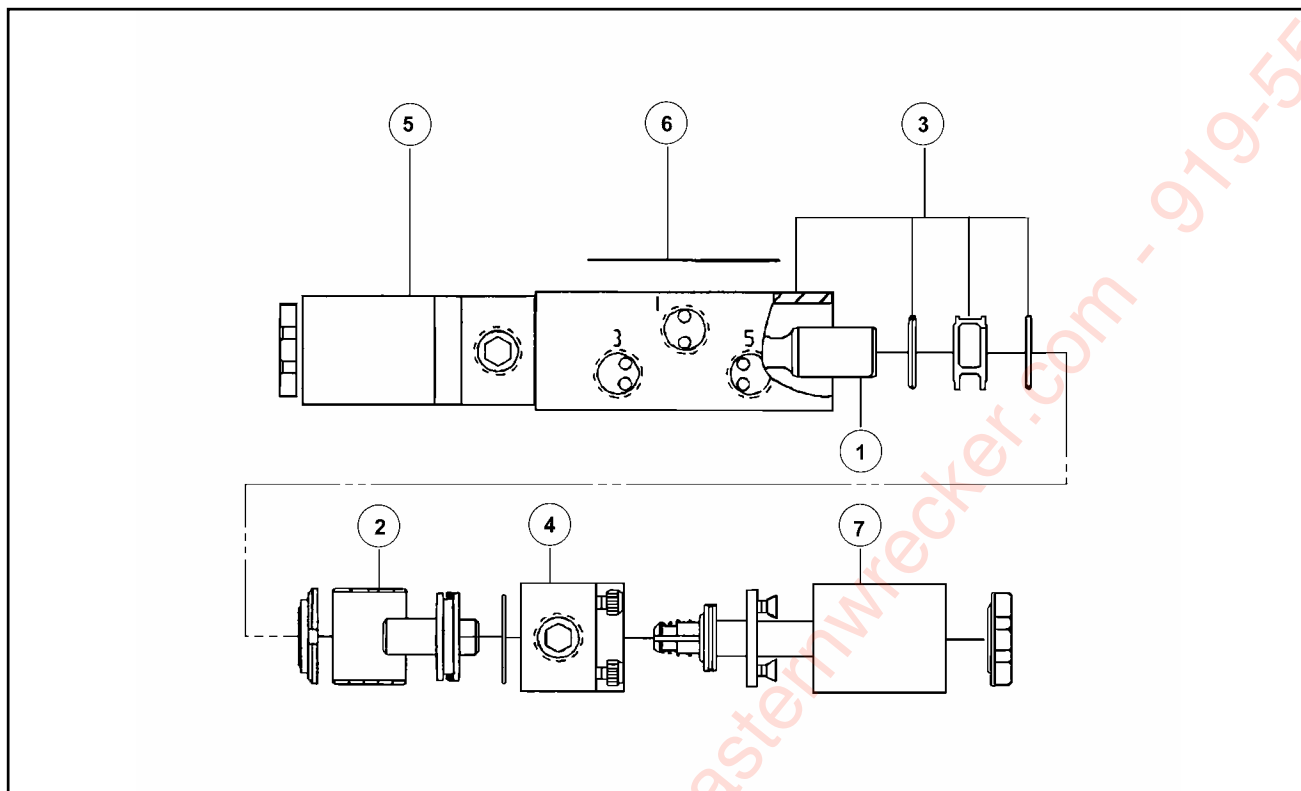


Figure 1-9 Pneumatic Valve

PNEUMATIC VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-843-010015	VALVE PNEUMATIC 4-WAY 3-POS.	3
1	6964-312	SPOOL	1
2	A7106-430	OPERATOR	1
3	A7106-350	BODY	1
4	AB022-567	CAP	2
5	7019-9XX	COIL	2
6	6582	LABEL MODEL NUMBER	2
7	A7106-392	SERVICE KIT (Contains all necessary seals, o-rings, spring and plunger, and gasket)	

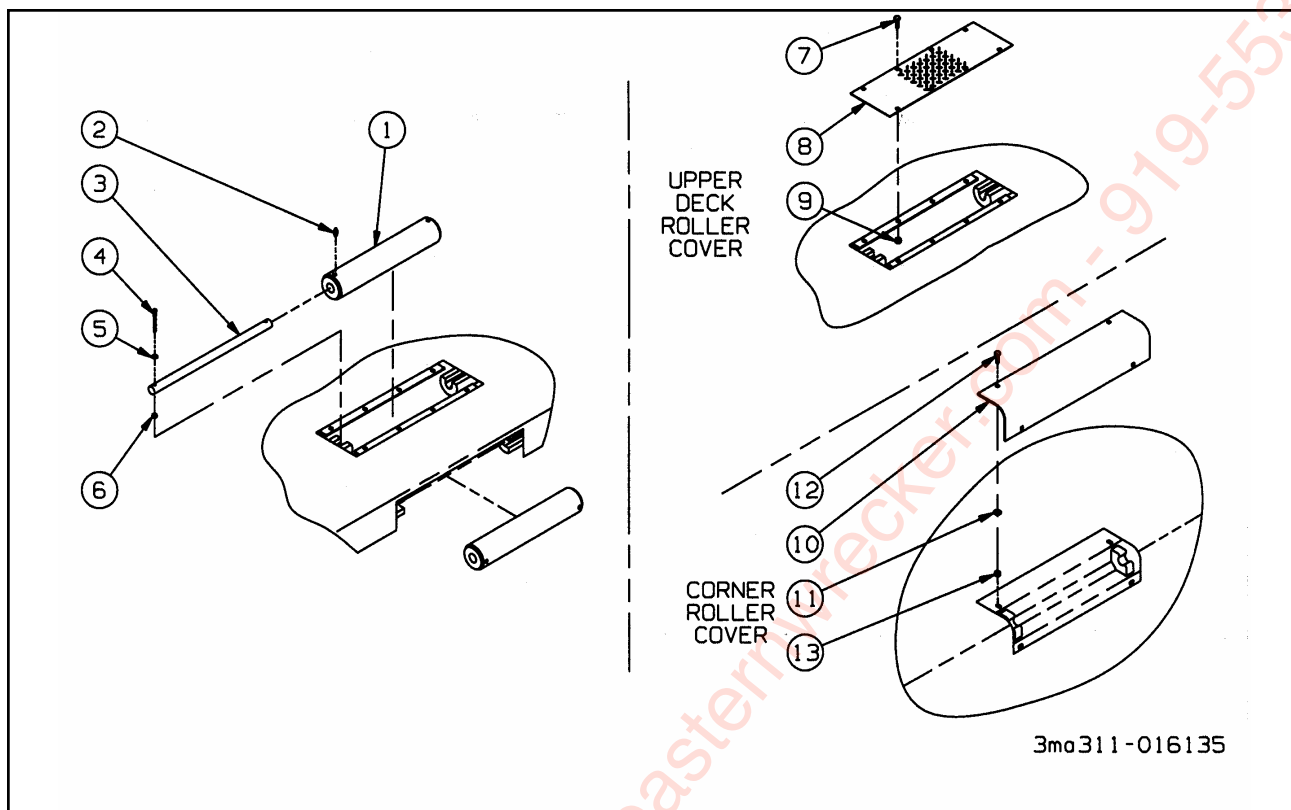


Figure 1-10 Slope Roller 90 Drop Deck (Option)

SLOPE ROLLER 90° DROP DECK (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-645-010085	ROLLER ASSEMBLY SLOPE	
	106207	ROLLER SLOPE SINGLE CORNER	
1	3-645-010059	ROLLER WELDMENT CABLE - UPPER DECK	*2,1
2	1-298-010001-1	ZERK FITTING 1/4	*4,2
3	3-642-010134	ROD ROLLER	*2,1
4	1-654-010055-11	SCREW HEX HEAD CAP 1/2-13 X 3-1/2 GR5	*4,2
5	1-861-010032-15	WASHER FLAT 1/2	*4,2
6	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	*4,2
* 1ST QUANTITY USED FOR P/N 3-645-010085; 2ND QUANTITY USED FOR P/N 106207			

COVER PLATE INSTALLATION - UPPER DECK ROLLER (OPTION)

	3-222-010199	COVER PLATE INST. - UPPER DECK ROLLER	
7	1-654-010070-02	SCREW RD HEAD SQ NECK 1/2-13 X 1-1/4	8
8	3-222-010198	COVER UPPER DECK ROLLER	1
9	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8

COVER PLATE INSTALLATION - CORNER ROLLER (OPTION)

	3-222-010227	COVER PLATE INSTL. - CORNER ROLLER	
10	3-565-011757	PLATE CABLE WEAR	1
11	1-861-010032-14	WASHER FLAT 1/2 N	4
12	1-654-010070-03	SCREW RD HEAD SQ NECK 1/2-13X1-1/2	4
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4

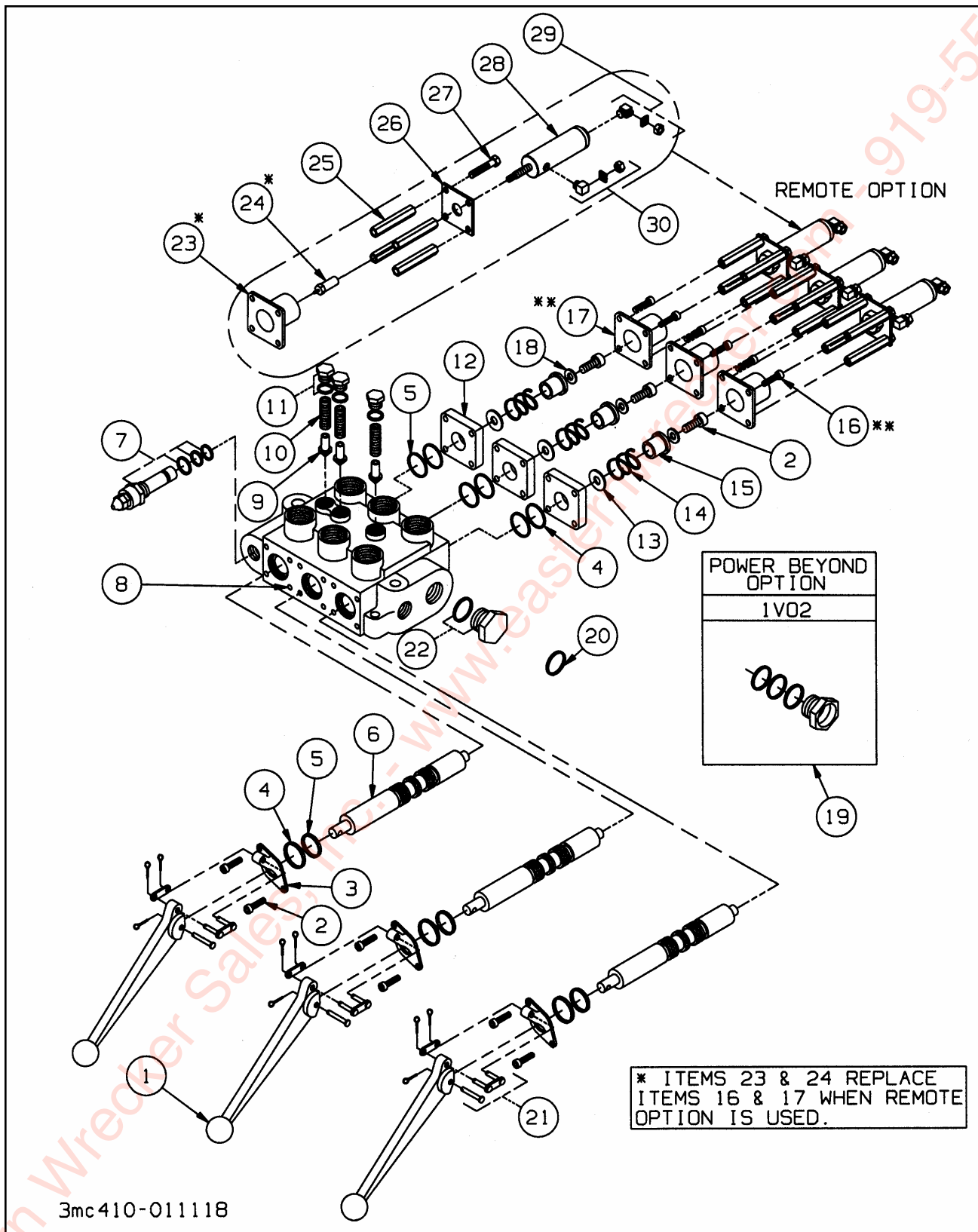


Figure 1-11 Three Spool Valve

THREE SPOOL VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010008	VALVE ASSEMBLY	
1	1V1703	VALVE HANDLE	3
2	2A0079-404	CAP SCREW (TIGHTEN TO 7-11 FT. LBS)	9
3	4Z4306	BRACKET HANDLE	3
4	1A0711	WASHER O-RING SPOOL	6
5	2A0293-7214	SEAL SPOOL	6
6	1V0090	*SPOOL 4-WAY	3
7	1R0017	RELIEF ASSEMBLY (1500-3000 PSI) (PRESET @2500 PSI)	1
8	1V0360	*HOUSING VALVE	1
9	1V0081	POPPET LOAD CHECK	3
10	1A0757	SPRING LOAD CHECK	3
11	1V1725	PLUG LOAD CHECK	3
12	1A0709	SPACER END	3
13	1A0291	WASHER STOP	3
14	1A0744	SPRING CENTERING	3
15	1A0292	COLLAR STOP	3
16**	2A0079-406	CAPSCREW (TIGHTEN TO 7-11 FT. LBS)	12
17**	1A0294	CAP END	3
18	1A0290	WASHER CENTERING SPRING	3
19	1V0208	ADAPTER ASSEMBLY REMOTE POWER BEYOND (CONTAINS ALL NECESSARY O-RING)	1
20	2A293-7214	GROMMET RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG CONVERSION	1
23**	3-161-010034	CAP MODIFIED VALVE SPOOL	1
24**	1-007-010029	ADAPTER SWIVEL	4
25	3-711-010055	SPACER	4
26	3-482-010288	MOUNT AIR CYLINDER VALVE	1
27	1-654-010047-02	SCREW HEX CAP 1/4-20 GR5	4
28	3-238-010001	CYLINDER AIR	1
29	1-297-010008-01	FITTING AIR 90	1
30	68CA-2-2	CONNECTOR	1

* SOLD AS MATCHED SET ONLY.

** ITEMS 23 AND 24 REPLACE ITEMS 16 AND 17 WHEN REMOTE OPTION IS USED.

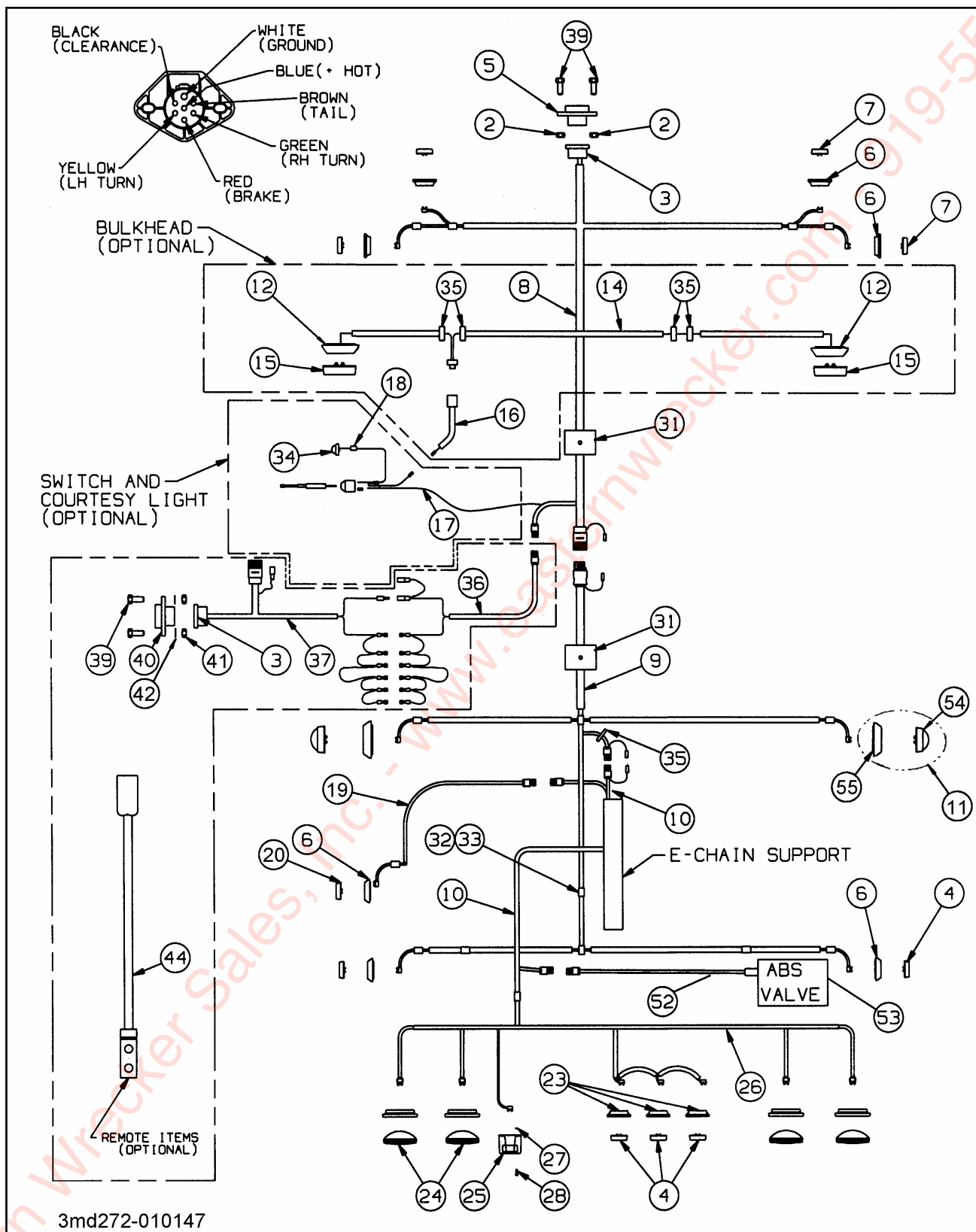
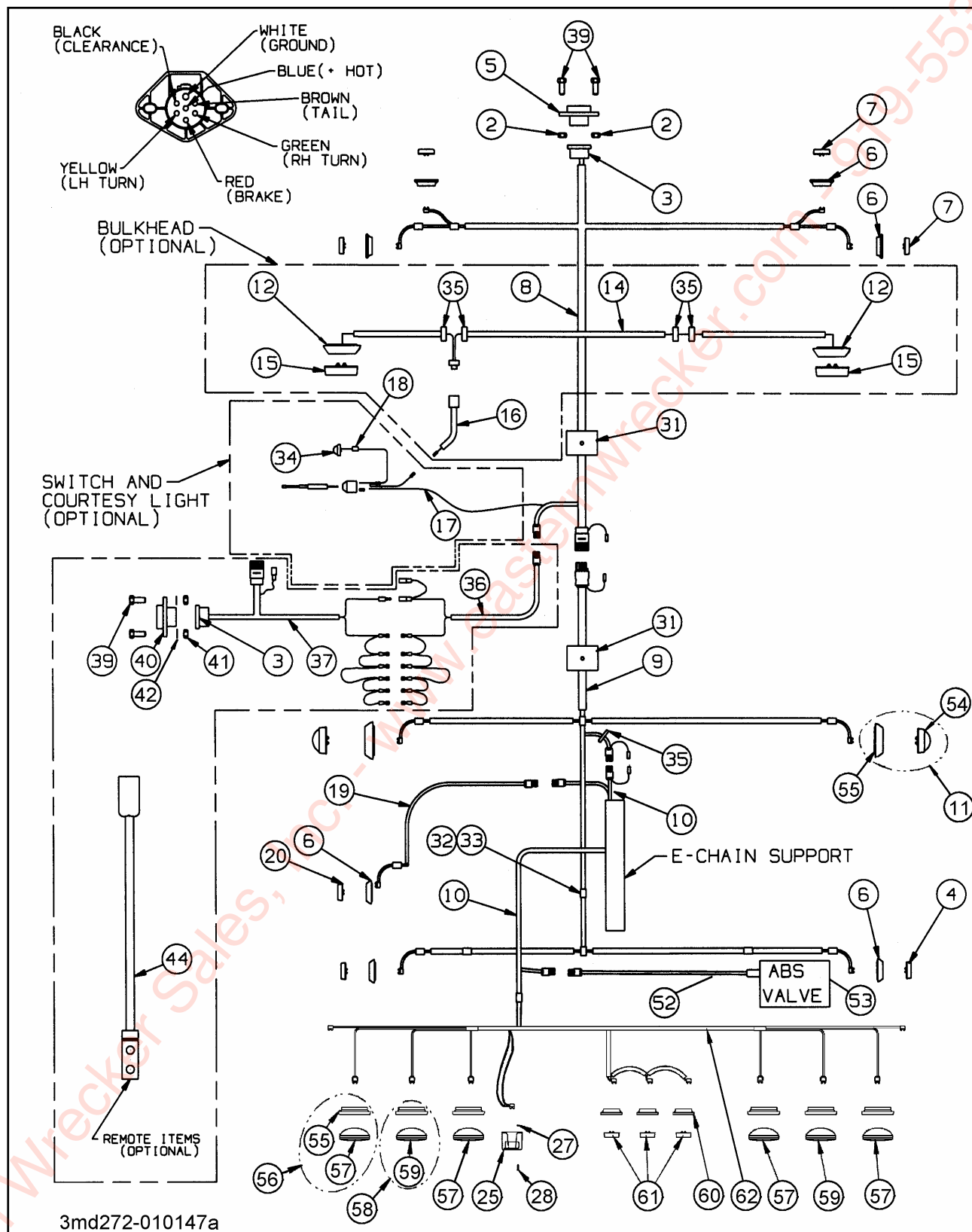


Figure 1-12 Electrical System Schematic
(Prior 12/06/01)



ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010147	ELECTRICAL INSTL 330-42	
	3-272-010148	ELECTRICAL INST. REMOTE	
2	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
3	59W-2-3	RUBBER BOOT	1
4	10205R	REFLECTOR LAMP RED (PRIOR 12/06/01)	2
5	59S-7	RECEPTACLE 7 PIN	1
6	10403	GROMMET MOUNT	7
7	10205Y	REFLECTOR LAMP YELLOW	4
8	3-368-010243-01	HARNESS ASSEMBLY FRONT MAIN	1
	110416	HARNESS ASSEMBLY FRONT MAIN 42'	1
9	3-368-010244	HARNESS ASSEMBLY REAR MAIN	1
	110417	HARNESS ASSEMBLY MAIN REAR 42'	1
10	102836	CABLE ASSEMBLY	1
11	60015Y	LIGHT TURN AND CLR. W/ GROMMET (INCL. 54 & 55)	2
12	1-343-010010	GROMMET 9/16	2
13	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	10
14	3-368-010250	HARNESS ASSY BULKHEAD LIGHT	1
15	64181	LAMP HALOGEN RECT. QUARTZ	2
16	3-368-010252	HARNESS ASSY BULKHEAD LIGHT	1
17	101381	HARNESS LIGHT WORK & COURTESY	1
18	STP-147	TERMINAL, BULLET	1
19	3-368-010294	HARNESS ABS LAMP	1
20	3-446-010046	LAMP ABS 2.5 DIA AMBER	1
23	10404	GROMMET MOUNT (PRIOR 12/06/01)	3
24	40002R	LIGHT STOP TURN TAIL (PRIOR 12/06/01)	4
	40202R	LAMP	1
	40700	GROMMET	1
25	15009	LICENSE LAMP	1
	15725	BRACKET	1
	15700	GROMMET	1
	15206	LAMP	1
26	3-368-010175	HARNESS WIRE U/C REAR (PRIOR 12/06/01)	1
27	1-861-010034-07	WASHER SPLIT LOCK #10	2
28	1-656-010003051	SCREW ROUND HEAD MACH #10-24X3/4	2
31	3-181-010006	HOSE CLAMP	*5,8
32	1-510-010001	NUT FLANGE LOCK 3/8-16	*16,19
33	2-181-010001	HOSE CLAMP	11
34	26331	LIGHT COURTESY TRUCKLITE	1
35	1-343-010007	GROMMET	5
36	3-368-010245-01	HARNESS POWER JUMPER	1
37	3-368-010246	HARNESS FRONT REMOTE	1
39	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	
40	3-272-010125	RECEPTACLE 7 PIN (FOR REMOTE ONLY)	1
41	1-512-010007-06	NUT, HEX 5/16-18	2
42	1-861-010034-10	WASHER, SPLIT LOCK 5/16	2
44	3-765-010001	SWITCH REMOTE CONTROL ASSY (SINGLE REMOTE)	1
	3-209-010004-01	CONTROL REMOTE WINCH/TILT (DUAL REMOTE)	1
	3-209-010004-03	CONTROL REMOTE WINCH/UC	1
	3-209-010004-04	CONTROL REMOTE TILT/UC	1

ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006-01	CONTROL REMOTE WINCH/TILT/UC (SEE PAGE 1-23 FOR WIRED REMOTE OPTIONS)	1
45	1-660-010006	SEALANT ELECTRICAL DOW CORNING(NOT SHOWN)	AR
52	114590	POWER CABLE 4 COND. (SEE PAGE 1-45)	1
53	114589	ECU/VALVE ASSEMBLY (SEE PAGE 1-45)	1
54	60215Y	LAMP, TRLR CENTER TURN INDICATOR	2
	94926	PLUG W/ PIGTAIL	2
	111925	LIGHT LED TURN MARKER YELLOW	2
55	60700	GROMMET, LIGHT	2
56	106371	LIGHT, TRN-TL-STOP W/ GROMMET (INCL. 55 & 57) (AFTER 12/05/01)	4
57	60202R	LAMP STOP TAIL 3 X 7 RED (AFTER 12/05/01)	4
58	108647	LIGHT, TRN YELLOW W/ GROMMET (INCL. 55 & 59) (AFTER 12/05/01)	2
59	60202Y	LAMP REAR AMBER TURN	2
	116134	LIGHT YELLOW OVAL TURN	2
	121377	LIGHT, YELLOW LED STT	2
60	107598	GROMMET, RECT. C./MKRLAMP (AFTER 12/05/01)	3
61	107599	LIGHT, RED CLEARANCE (AFTER 12/05/01)	3
	113374	LIGHT, RED LED CLEARANCE (AFTER 12/05/01)	3
62	106652	HARNESS, BUMPER (AFTER 12/05/01)	1
63	114581	HARNESS, MOD LED (PRIOR 01/09/02) (NOT SHOWN)	1
	114583	HARNESS, MOD LED (AFTER 01/09/02) (NOT SHOWN)	1

* THE FIRST QUANTITY IS FOR THE 42', THE SECOND QUANTITY IS FOR THE 48'

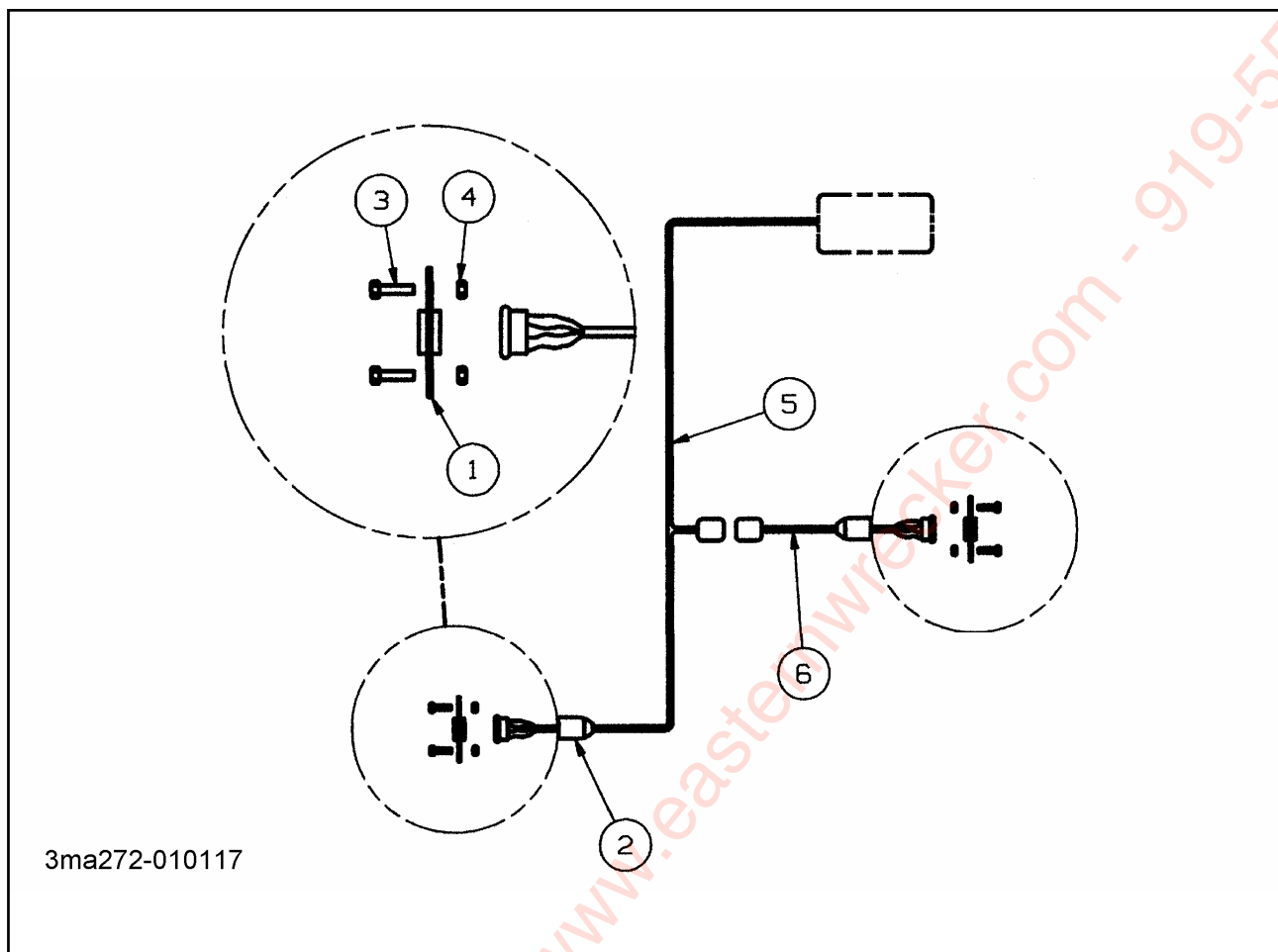


Figure 1-14 Electrical System Rear/Curb Remote

ELECTRICAL SYSTEM REAR/CURB REMOTE

ITEM	PART NO.	DESCRIPTION	QTY.		
	3-272-010117-01	ELECTRICAL REAR REMOTE STREET SIDE	*		
	3-272-010117-02	ELECTRICAL REAR REMOTE STREET & CURB	*		
	112833	CURB SIDE REMOTE OUTLET	*		
1	3-272-010125	RECEPTACLE 7 PIN	1	2	1
2	59W-2-3	RUBBER BOOT	1	2	1
3	1-654-010049-06	SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2	4	2
4	1-512-010005-03	NUT, HEX LOCK 5/16-18	2	4	--
	1-512-010007-06	NUT, HEX 5/16	--	--	2
5	3-368-010190	HARNESS, REAR REMOTE	1	1	--
6	3-368-010191	HARNESS, CURB SIDE	--	1	1
7	1-861-010034-10	WASHER, SPLIT LOCK 5/16 (NOT SHOWN)	--	--	2

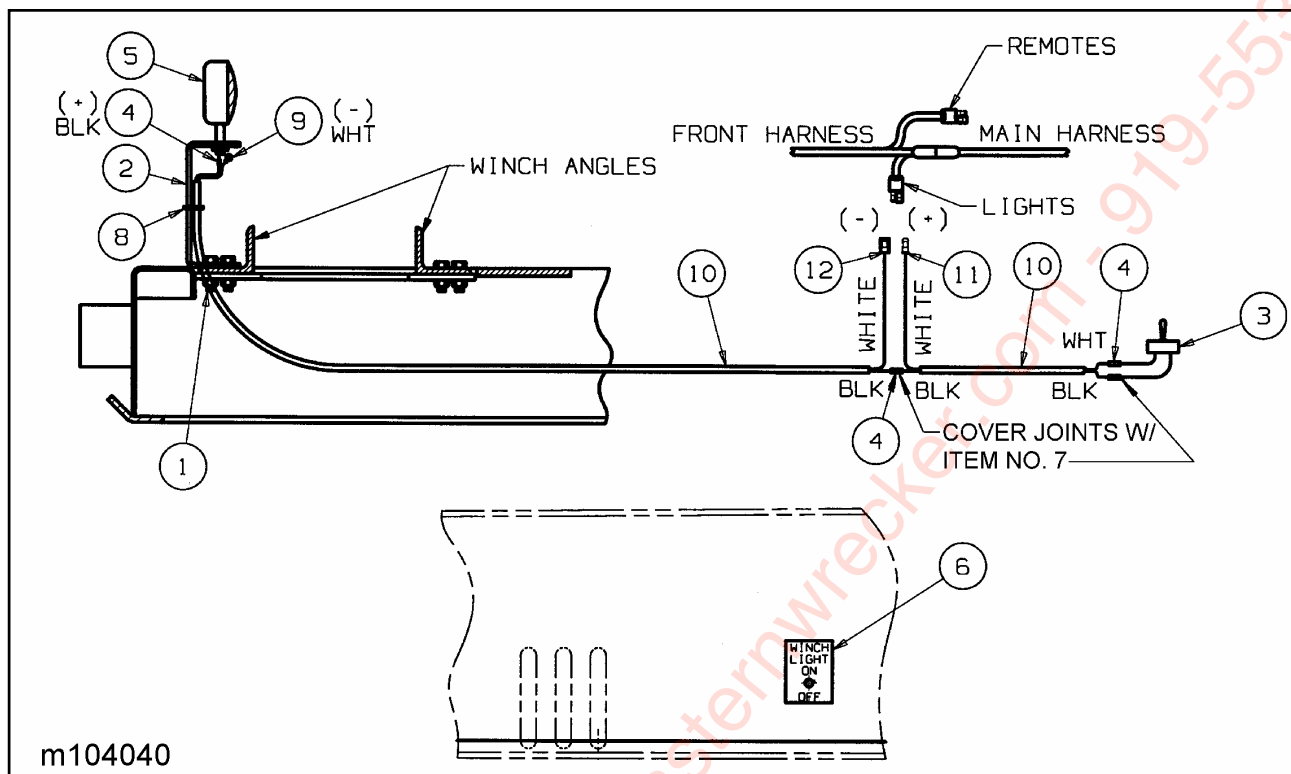


Figure 1-15 Electrical System, Winch Light

ELECTRICAL SYSTEM, WINCH LIGHT

ITEM	PART NO.	DESCRIPTION	QTY.
	104040	ELECTRICAL SYSTEM WINCH LIGHT	
1	1-645-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	2
2	3-120-010485	BRACKET, WINCH LIGHT, UPPER DECK	1
3	3-272-010017	TOGGLE SWITCH	1
4	3-272-010021	ELECT. BUTT SPLICE	4
5	64181	RECT. QUARTZ HALOGEN LAMP	1
6	3-573-010273	DECAL, WINCH LIGHT	1
7	3-201-010002	CONDUIT, 3/8 PLASTIC FLEX	AR
8	1-796-010003-01	TIE STRAP, PLASTIC	5
9	239-3646-7	TERMINAL RING	1
10	3-156-010008	CABLE, TWO CONDUCTOR	AR
11	104043	CONNECTOR, MALE BULLET	1
12	104044	CONNECTOR, FEMALE BULLET	1

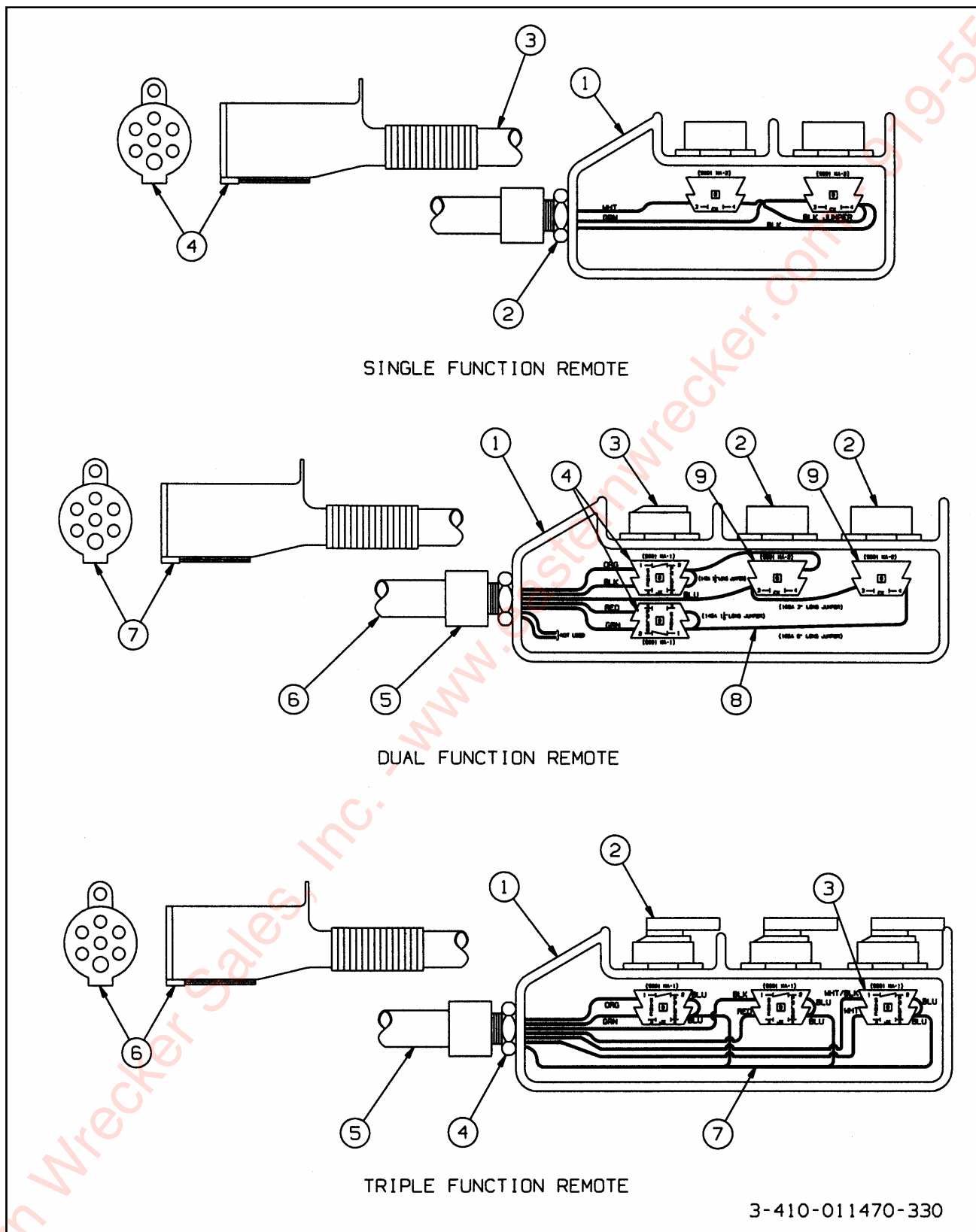


Figure 1-16 Wired Remote Control

WIRED REMOTE CONTROL, SINGLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-765-010001	SWITCH REMOTE CONTROL ASSEMBLY	
1	3-209-010003	PUSH BUTTON STATION	1
	106069	SHORT RING NUT FOR BUTTON	1
A	9001-BW70YU	CONTROL STATION SQD(CONTACT BLKS INCL)	1
B	9001-B256	REVERSE LEGEND	1
C	9001-B255	FORWARD LEGEND	1
2	DB-10	STRAIN RELIEF CORD CONN	1
3	3-156-010007	THREE CONDUCTOR WIRE	50
4	59P8	TRAILER CONN PLUG	1

WIRED REMOTE CONTROL, DUAL

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010004	CONTROL DUAL FUNCTION REMOTE	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010080	ELECTRICAL PUSH BUTTON UNITS	2
	106069	SHORT RING NUT FOR BUTTON	1
3	3-272-010079	ELECTRICAL CONTACT OPERATOR	1
4	3-272-010078	ELECTRICAL CONTACT BLOCK	2
5	106-0079	CONNECTOR	1
6	3-156-010043	CABLE	50
7	59P8	TRAILER CONN PLUG	1
8	1-879-010011	WIRE BLACK	2
9	3-272-010095	ELECTRICAL CONTACT BLOCK	2
10	3-573-010296	DECAL, WINCH TILT	1
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	1
	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE (DECALS NOT SHOWN) (SEE PAGE 1-69)	1

WIRED REMOTE CONTROL, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006	CONTROL REMOTE WINCH/TILT UNDERCARRIAGE	
1	3-279-010037	ENCLOSURE DUAL REMOTE	1
2	3-272-010121	ELECTRICAL CONTACT OPERATOR 3 WAY	3
	106068	TALL RING NUT FOR BUTTON	2
3	3-272-010078	ELECTRICAL CONTACT BLOCK	3
4	106-0079	CONNECTOR	1
5	3-156-010043	CABLE	50
6	59P8	TRAILER CONN PLUG	1
7	1-879-010008	WIRE BLUE	2
8	3-573-010394	DECAL, TILT/WINCH/UNDERCARRIAGE (DECALS NOT SHOWN) (SEE PAGE 1-69)	1

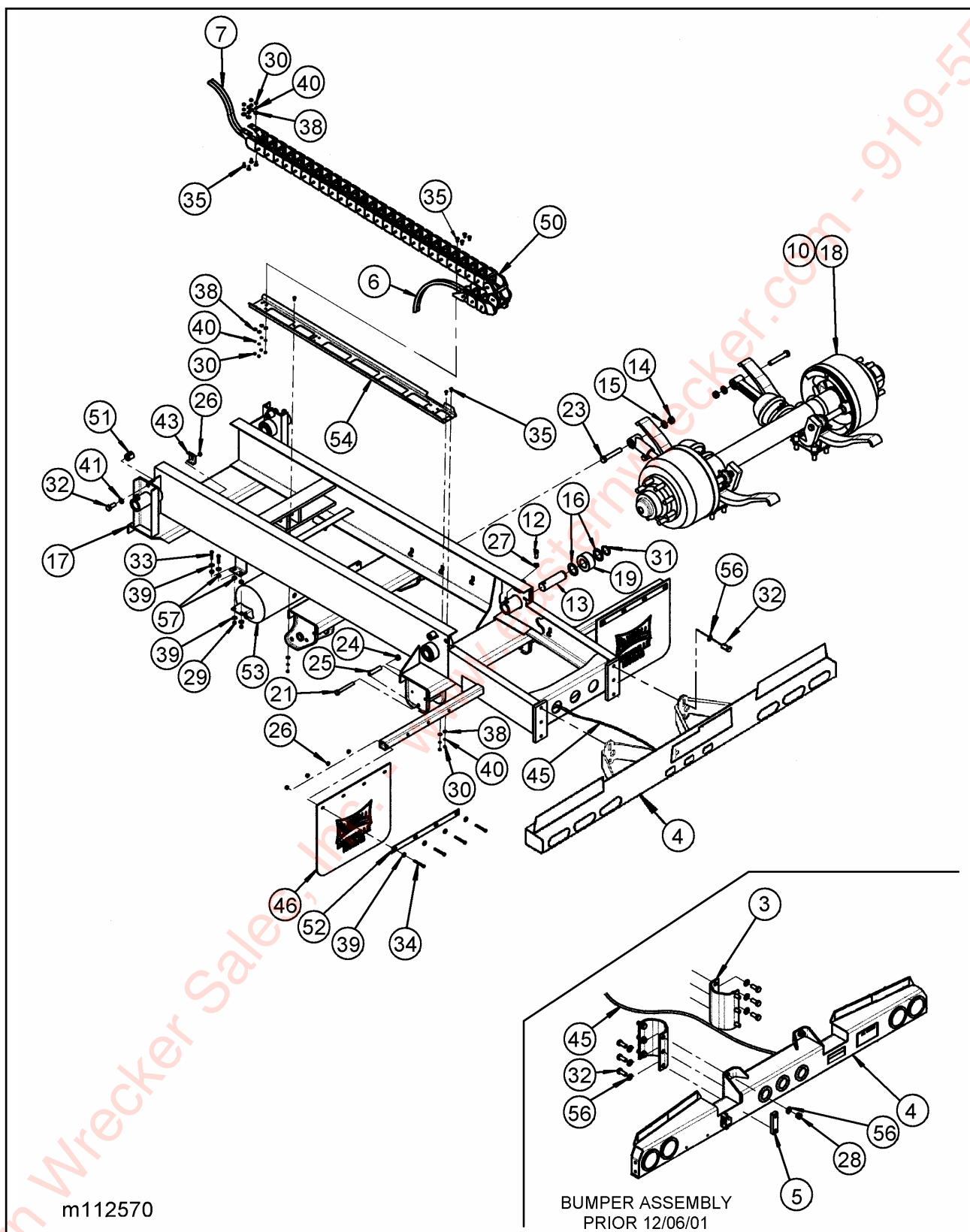


Figure 1-17 Undercarriage Assembly - Spring Ride
Single Axle (1 of 2)

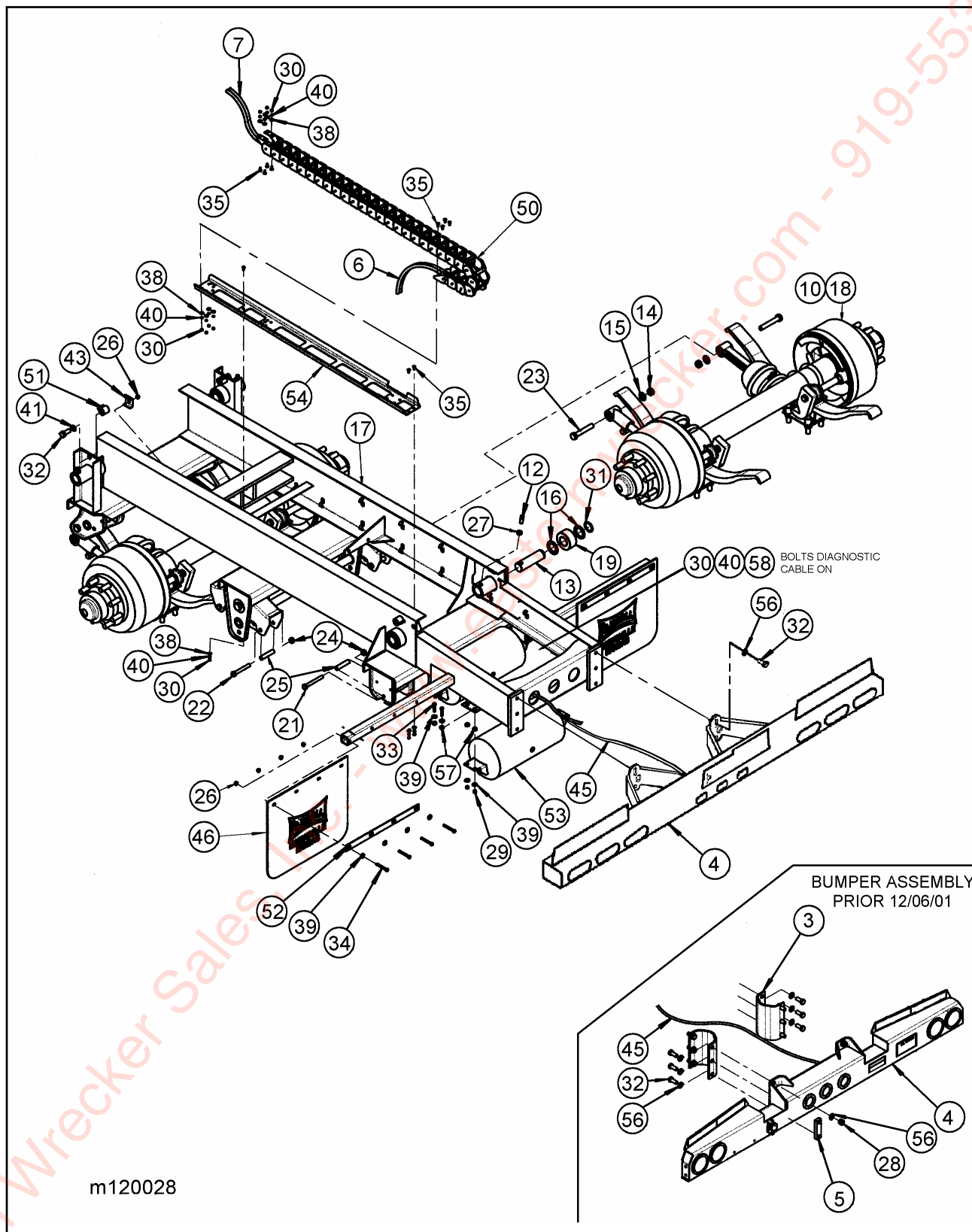


Figure 1-18 Undercarriage Assembly - Spring Ride
Tandem Axle (2 of 2)

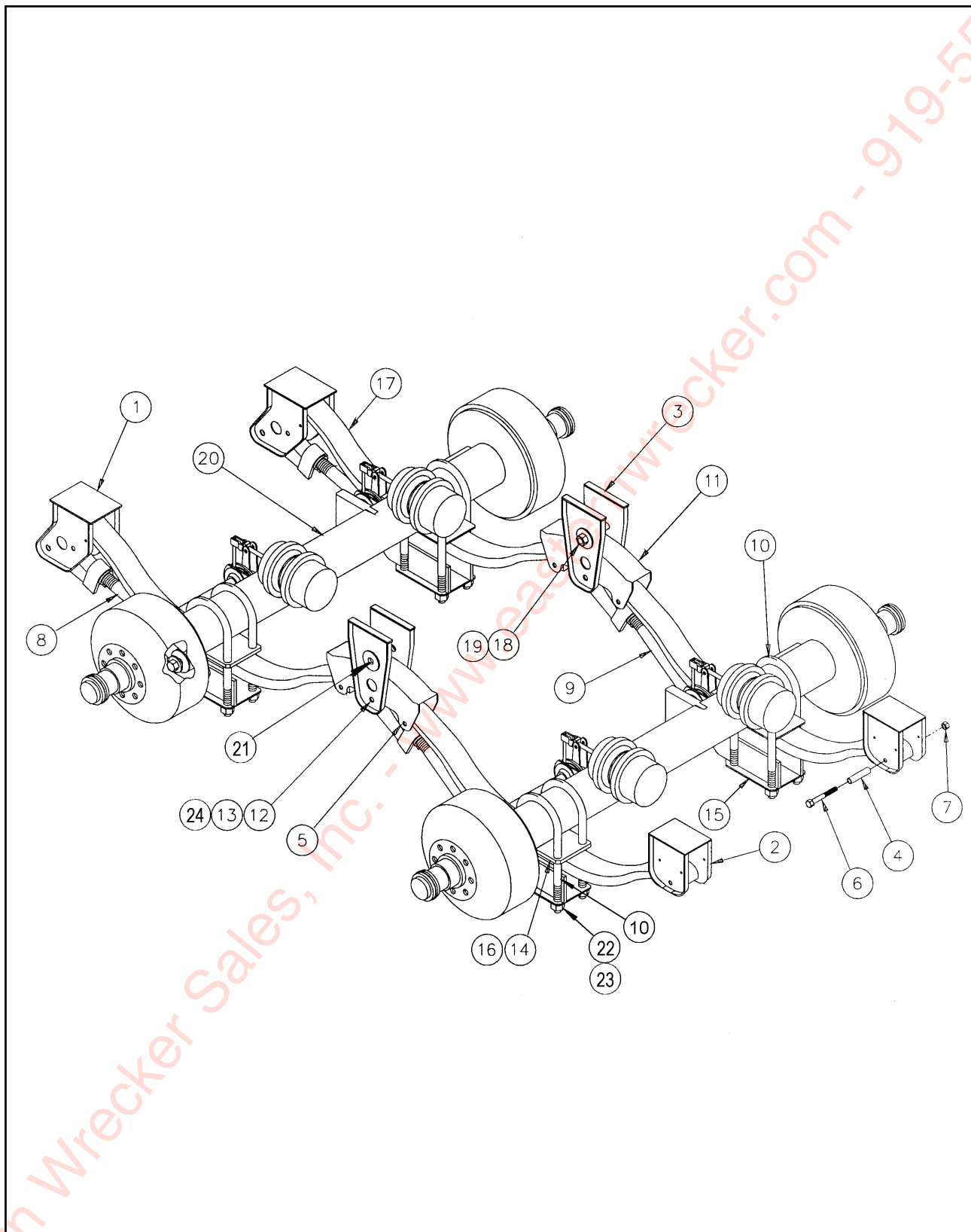
UNDERCARRIAGE ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	112570	SUSPENSION ASSEMBLY S/R (SINGLE AXLE)	
	120028	SUSPENSION ASSEMBLY S/R (TANDEM AXLE)	
3	101143	MOUNT BUMPER ENERGY PAK (PRIOR 12/06/01)	2
4	101712	BUMPER WELDMENT (PRIOR 12/06/01)	1
	119580	BUMPER WELDMENT (AFTER 12/06/01)	1
5	102283	BAR BUMPER E/P TAPPED (PRIOR 12/06/01)	2
6	102728	HARNESS ASSEMBLY UC MAIN	1
7	102836	HARNESS ASSEMBLY E-CHAIN	1
10	107917	BRAKE W ABS 330-1-40 (SEE PAGE 1-41)	1
	103683	BRAKE W/ ABS SINGLE (STD LOAD)(SEE PAGE 1-41)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD)(SEE PAGE 1-41)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD)(SEE PAGE 1-43)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD)(SEE PAGE 1-43)	1
12	108958	SET SCREW, SQ HD CUP POINT 5/8-11 X 1-1/2	4
13	110437	PIN, ROLLER 5"	4
14	110990	LOCKNUT 7/8-14	*2,4
15	110991	WASHER, FLAT HARDENED 7/8	4
16	114562	BUSHING, MACHINERY HARDENED	8
17	112568	SUSPENSION WLDMT 330-1 S/R (NOT SHOWN)	1
	112569	SUSP. WLDMT 330-1S/R DROP DECK (NOT SHOWN)	1
	114528	SUSP. WLDMT 330-1-40 S/R (NOT SHOWN)	1
	114634	SUSP. WLDMT 330-2 S/R	1
	116704	SUSP. WLDMT 330-2 DROP DECK (NOT SHOWN)	1
18	115728	SUSP. ASSY SPRING 330-102 (SEE PAGE 1-29)	1
	115727	SUSP. ASSY SPRING 330-96 (SEE PAGE 1-29)	1
19	116563	ROLLER ASSEMBLY 4" FIBERGLIDE	4
21	0001-02	HEX HEAD CAP SCREW 5/8-18 X 5-1/8	2
22	0001-04	HEX HEAD CAP SCREW 5/8-18 X 4-1/2	*-,4
23	0001-08	TORQUE ARM BOLT 7/8-14 X 5-1/4	*2,4
24	0002-07	LOCKNUT 5/8-18	*2,6
25	0741-01	SPRING ROLLER	*2,6
26	1-510-010001	NUT FLANGE LOCK 3/8-16	10
27	1-511-010001-07	NUT, HEX JAM 5/8-11	4
28	1-512-010002-15	NUT HEX LOCK 3/4-10 GRB SINGLE	2
29	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
30	1-512-010007-05	NUT HEX 1/4-20 GRB	11
31	1-630-010021-02	RING, RETAINING, HEAVY DUTY	4
32	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
33	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	4
34	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16X3 GR5	8
35	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
37	1-796-010004-02	TIE STRAP (NOT SHOWN)	AR
38	1-861-010032-07	WASHER FLAT 1/4	11
39	1-861-010032-11	WASHER FLAT 3/8	*16,24
40	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
41	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
43	2-181-010001	CLAMP	2
45	3-368-010175	WIRE HARNESS (PRIOR 12/06/01)	1
	106652	HARNESS, BUMPER (AFTER 12/06/01)	1
46	3-485-010001	MUD FLAP	2

UNDERCARRIAGE ASSEMBLY - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
50	3-755-010189-03	SUPPORT E-CHAIN (STANDARD LOAD ANGLE)	1
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD ANGLE)	1
	3-755-010189-1	LINK	1
	380-1	END MOUNTING BRACKET W/ HOLE	2
	380-2	END MOUNTING BRACKET W/ PIN	2
51	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
52	3-762-010017	CLAMP MUD FLAP	2
53	3-780-010002	TANK AIR	*1,2
54	3-821-010005	TRAY CAT TRACK	1
56	622-3511-008	WASHER 3/4	14
57	805-2	STEP BUSHING	*8,16
58	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20X1 GR5	2

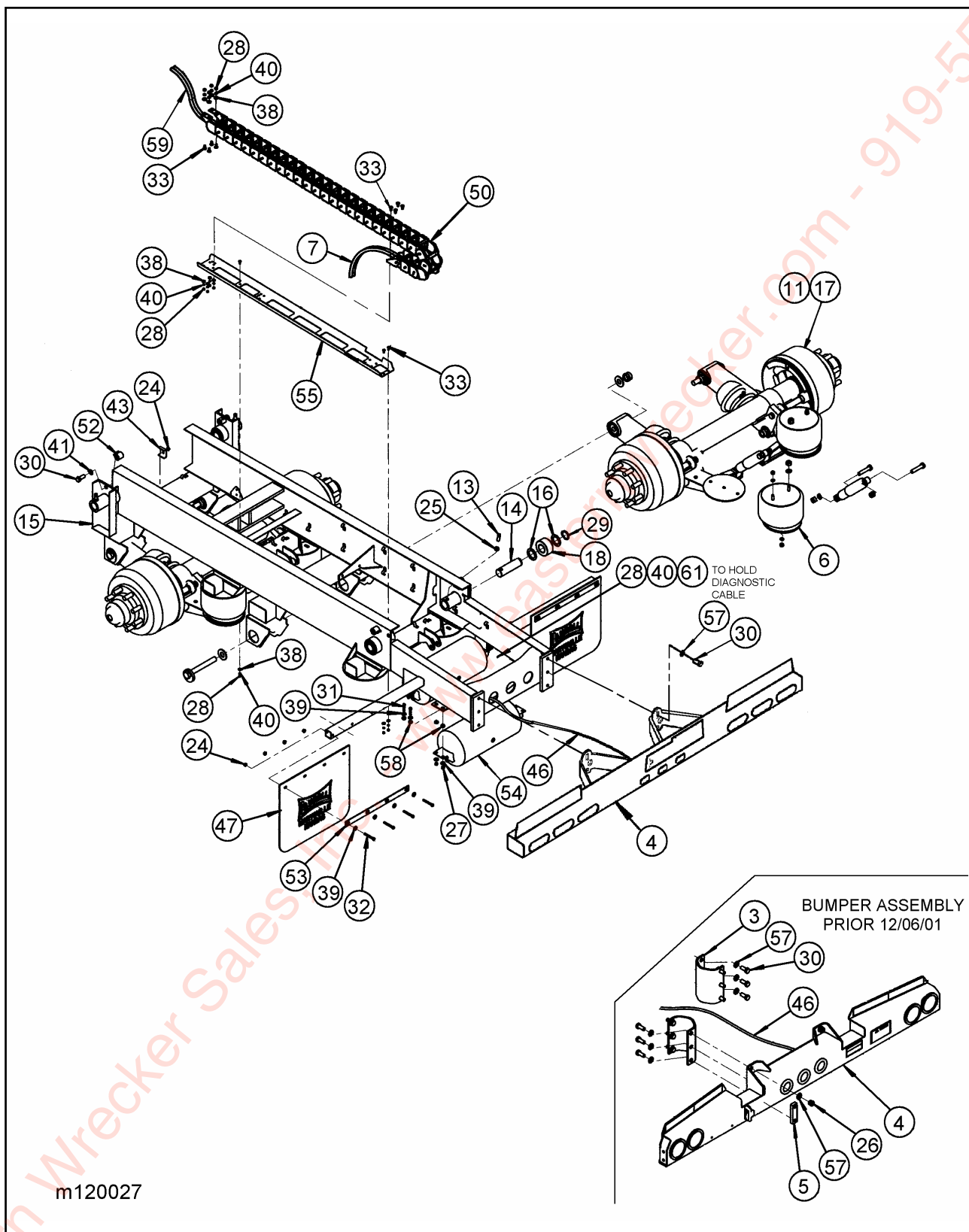
* FIRST QUANTITY IS FOR SINGLE AXLE, SECOND QUANTITY IS FOR TANDEM AXLE.



**Figure 1-19 Single Leaf Spring Suspension
(Tandem Axle Shown)**

SUSPENSION ASSEMBLY - SPRING RIDE

ITEM	PART NO.	REFERENCE NO.	DESCRIPTION	QTY.
	115728		SUSPENSION ASSEMBLY SPRING 330-102	
	115727		SUSPENSION ASSEMBLY SPRING 330-96	
1	0049-00	0049-00	HANGER FRONT	2
2	0053-00	0053-00	REAR HANGER UNDERMOUNT	2
3	0065-00	0065-00	HANGER EQUALIZER (TANDEM AXLE ONLY)	2
4	0741-01	0741-01	ROLLER SPRING	2
5	0001-04	0001-04	HEX HEAD CAP SCREW (TANDEM AXLE ONLY)	4
6	0001-02	0001-02	HEX HEAD CAP SCREW	2
7	0002-07	0002-07	LOCK NUT, HEX	2
8	1035-20	1035-20	TORQUE ARM ADJUSTABLE	1
9	0075-20	0075-20	TORQUE ARM RIGID	1
10	0102-13	0102-13	U-BOLT	4
11	0650-00	0650-00	EQUALIZER BEAM ASSEMBLY (TANDEM AXLE ONLY)	2
12	0001-08	0001-08	BOLT TORQUE ARM 7/8-14 X 5-1/4	2
13	0002-12	0002-12	NUT FLANGED LOCKING 7/8-14	2
14	0647-01	0647-01	AXLE SEAT	2
15	0508-00	0508-00	BOTTOM PLATE UNDERSLUNG	2
16	0375-00	0375-00	DEL RIN LINER	2
17	3-720-010030		SPRING MONO LEAF HIGH ARCH	2
18	0001-14	0001-14	EQUALIZER BOLT (TANDEM AXLE ONLY)	2
19	0274-01	0274-01	FLANGED LOCK NUT (TANDEM AXLE ONLY)	2
20	115713		AXLE 69 16.5 X 7 SPG BRK 25K (SEE PAGE 1-38)	1
	115712		AXLE 67.5 16.5 X 7 SPG BRK 25K (SEE PAGE 1-38)	1
21	0649-02	0649-02	EQUALIZER BUSHING (INCL. IN ITEM #11)	2
22	109532	14344-01	LOCKNUT 3/4	8
23	109592	20852-01	WASHER, 3/4	8
24	-----	T7292	WASHER, 7/8	2
	3-432-010006	AX-SPG	KIT AXLE SPRING ATTACHING PARTS (INCLUDES ITEMS 8-10,12-16,22-24)	
	3-432-010010	0651-00	KIT EQUALIZER ASSEMBLY (TANDEM AXLE ONLY) (INCLUDES ITEMS 3,11,18-19,21)	



**Figure 1-20 Undercarriage Assembly - Air Ride
(Tandem)**

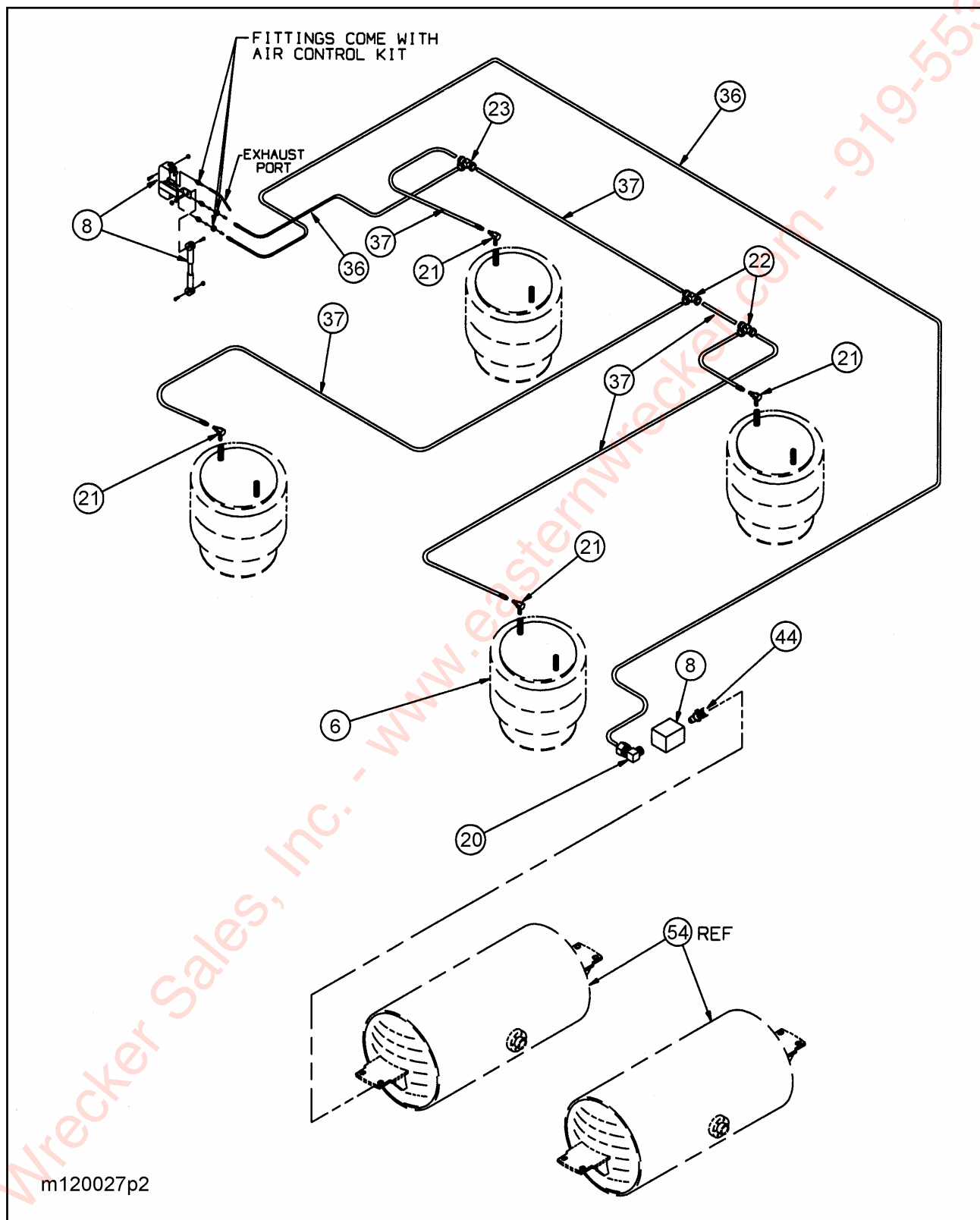


Figure 1-21 Air Ride Suspension System (Tandem)

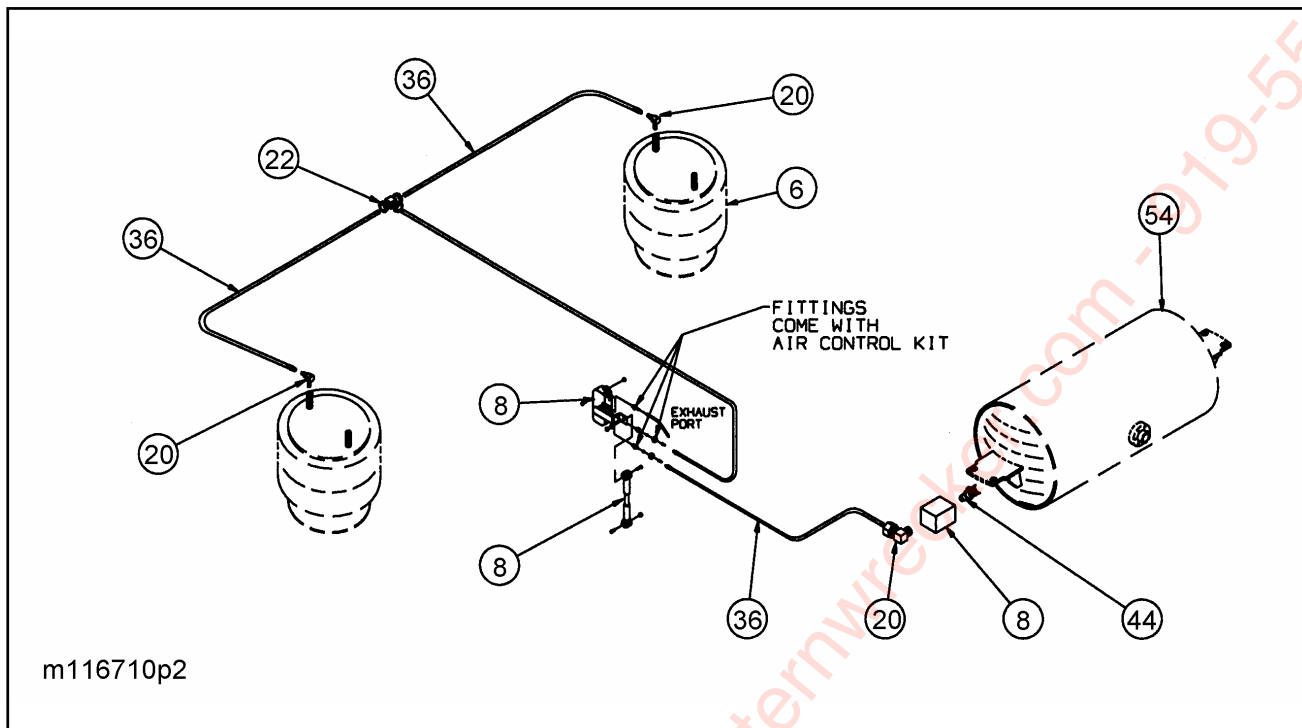


Figure 1-22 Air Ride Suspension System (Single)

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	116710	SUSP ASSEMBLY A/R SINGLE	
	120027	SUSP ASSEMBLY A/R TANDEM	
3	101143	MOUNT BUMPER ENERGY PAK (PRIOR 12/06/01)	2
4	101712	BUMPER WELDMENT (PRIOR 12/06/01)	1
	119580	BUMPER WELDMENT (AFTER 12/06/01)	1
5	102283	BAR BUMPER E/P TAPPED (PRIOR 12/06/01)	2
6	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-37)	1
7	102728	HARNESS ASSEMBLY E-CHAIN	1
8	102732	AIR CONTROL SYSTEM (SEE PAGE 1-35)	1
11	103683	BRAKE W/ ABS SINGLE (STD LOAD) (SEE PAGE 1-41)	1
	103695	BRAKE W/ ABS SINGLE (LOW LOAD) (SEE PAGE 1-41)	1
	107917	BRAKE W/ ABS 330-1-40 (SEE PAGE 1-41)	1
	103819	BRAKE W/ ABS TANDEM (STD LOAD) (SEE PAGE 1-43)	1
	103820	BRAKE W/ ABS TANDEM (LOW LOAD) (SEE PAGE 1-43)	1
13	108958	SET SCREW SQ HD CUP POINT 5/8-11 X 1-1/2	4
14	110437	PIN, ROLLER 5"	4
15	116702	SUSP. WLDMT. A/R 330-1	1
	113973	SUSP. WLDMT. A/R 330-1 DROP DECK	1
	116742	SUSP. WLDMT. A/R 330-1-40	1
	114543	SUSP. WLDMT. A/R 330-2	1
	116703	SUSP. WLDMT. A/R 330-2 DROP DECK	1
16	114562	BUSHING, MACHINERY HARDENED	8
17	115738	AXLE WELDMENT A/R 2516-SPG-69	1
	115737	AXLE WELDMENT A/R 2516-SPG-67.5	1
(FOR PARTS BREAKDOWNS, SEE PAGES 1-37 AND 1-38)			

UNDERCARRIAGE ASSEMBLY - AIR RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
18	116563	ROLLER ASSEMBLY 4" FIBERGLIDE	4
20	1-297-010008-07	FITTING AIR 90	*3,1
21	1-297-010008-18	FITTING AIR 90 (TANDEM AXLE)	4
22	1-297-010010-01	FITTING AIR UNION TEE (SINGLE AXLE)	1
	1-297-010010-03	FITTING AIR UNION TEE (TANDEM AXLE)	2
23	1-297-010010-04	FITTING AIR UNION TEE 3/8X3/8X1/4 (TANDEM AXLE)	1
24	1-510-010001	NUT FLANGE LOCK 3/8-16	10
25	1-511-010001-07	NUT, HEX JAM 5/8-11	4
26	1-512-010002-15	NUT, HEX LOCK 3/4-10	2
27	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	*4,8
28	1-512-010007-05	NUT HEX 1/4-20 GRB	11
29	1-630-010021-02	RING, RETAINING HEAVY DUTY	4
30	1-654-010032-04	SCREW HEX HEAD CAP 3/4-10X1-3/4 GR5	16
31	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16X1-3/4 GR5	*4,8
32	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16 GR5	8
33	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20X3/4 GR5	11
35	1-796-010004-02	TIE, STRAP (NOT SHOWN)	6
36	1-833-010001	TUBING NYLON 1/4 OD	*8,11
37	1-833-010002	TUBING NYLON (TANDEM AXLE)	1
38	1-861-010032-07	WASHER FLAT 1/4	11
39	1-861-010032-11	WASHER FLAT 3/8	*16,24
40	1-861-010034-09	WASHER SPLIT LOCK 1/4	13
41	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
43	2-181-010001	CLAMP	2
44	2083-8-4S	NIPPLE HEX	1
46	3-368-010175	WIRE HARNESS (PRIOR 12/06/01)	1
	106652	HARNESS, BUMPER (AFTER 12/06/01)	1
47	3-485-010001	MUD FLAP	2
50	3-755-010189-03	SUPPORT E-CHAIN (STANDARD LOAD ANGLE)	1
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD ANGLE)	1
	3-755-010189-1	LINK	1
	380-1	END MOUNTING BRACKET W/ HOLE	2
	380-2	END MOUNTING BRACKET W/ PIN	2
52	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
53	3-762-010017	CLAMP MUD FLAP	2
54	3-780-010002	TANK AIR	*1,2
55	3-821-010005	TRAY CAT TRACK	1
57	622-3511-008	WASHER 3/4	14
58	805-2	STEP BUSHING	*8,16
59	102836	HARNESS ASSEMBLY E-CHAIN	1
61	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2

* FIRST QUANTITY LISTED IS FOR SINGLE AXLE; SECOND QUANTITY LISTED IS FOR TANDEM AXLE

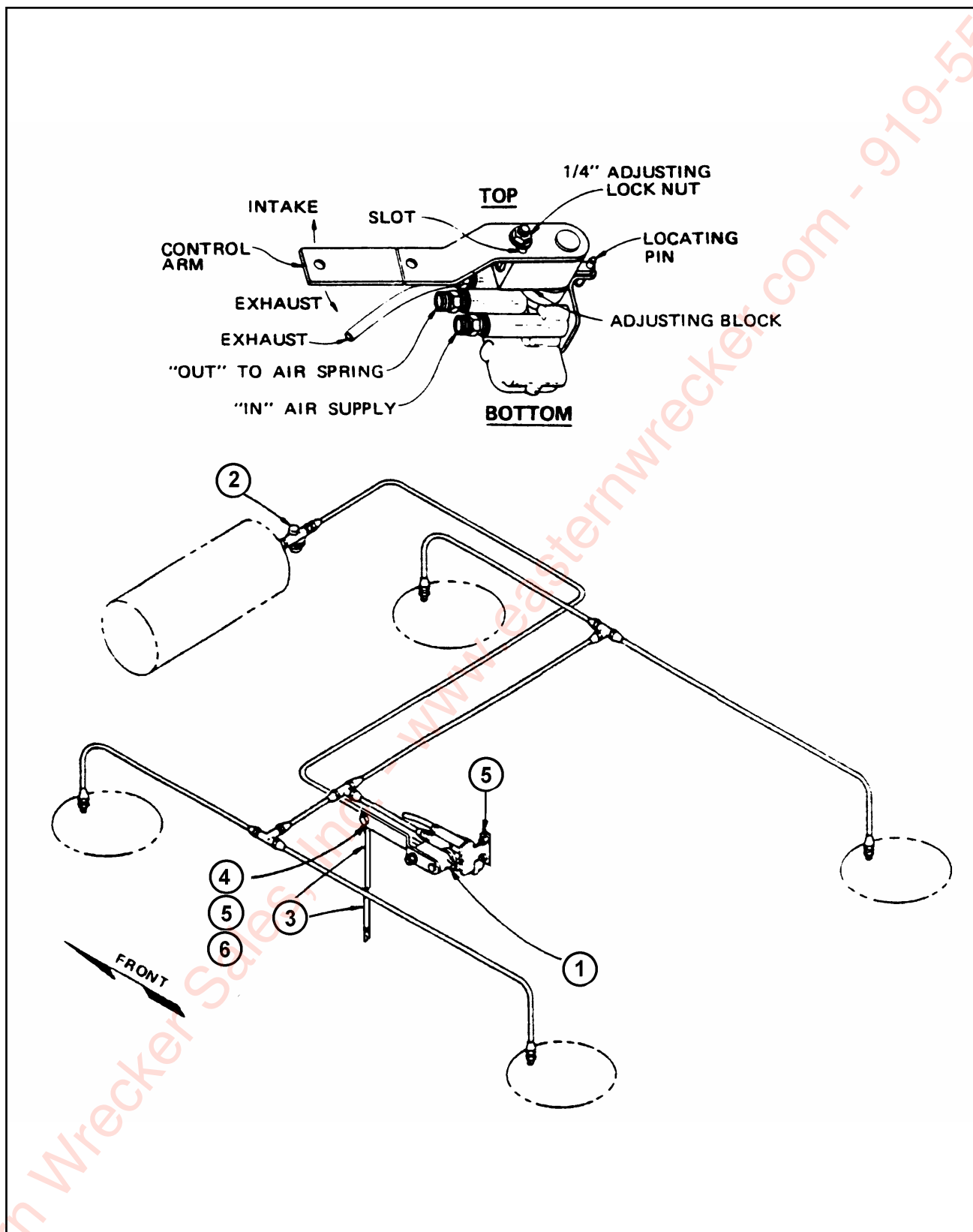
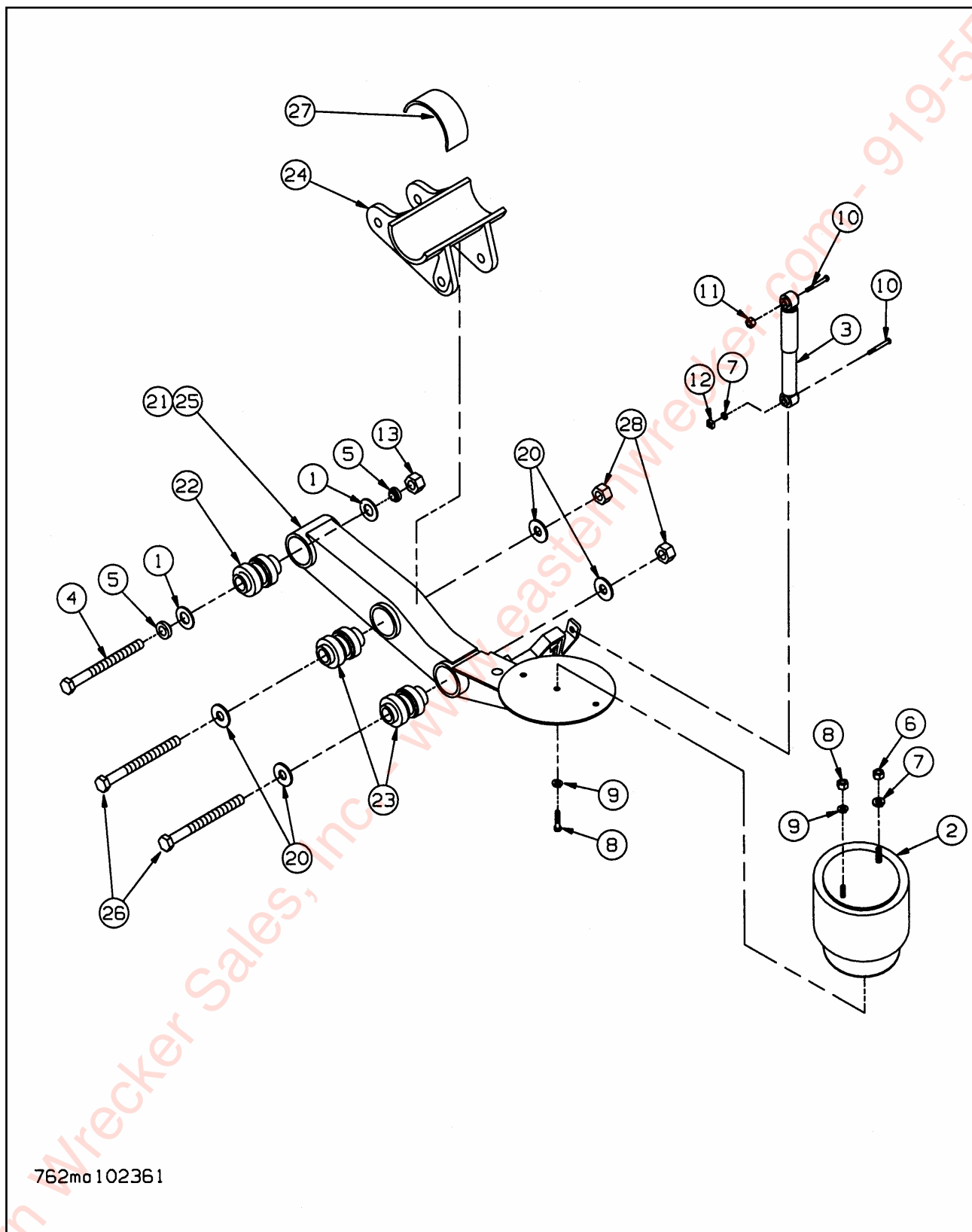


Figure 1-23 Air Control Kit

AIR CONTROL KIT

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	900 54 107	AIR PRESSURE VALVE & FILTER	1
3	111021	SRK - 167 KIT (ADJ. LINK ASSY)	1
4	1-654-010047-04	CAP SCREW 1/4-20 X 3/4	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	941 00 119	DECAL (OPERATING)	1
7	941 00 466	HEIGHT CONTROL VALVE INSTRUCTIONS	1



762mo102361

Figure 1-24 Suspension Hanger Assembly

SUSPENSION HANGER ASSEMBLY

ITEM	PAGE/PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION, ADJ. RLU-228-3.5 (ITEMS 1-19)	
	102361	SUSPENSION BEAM, RLU-228 (ITEMS 20-28)	
1	111010	FLAT WASHER	2
2	111020	AIR SPRING ASSEMBLY	2
3	90045040	SHOCK	2
4	111006	ALIGN BUSH ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5	111007	ALIGN BLOCK	2
6	93400149	3/4-16 HEX NUT GRB	2
7	93600077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	NUT, HEX 1/2-13	4
9	1-816-010034-13	WASHER, SPLIT LOCK 1/2"	4
10	105408	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	93400492	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	94100787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	94100685	LITERATURE SPEC (NOT SHOWN)	1
17	94100648	LITERATURE FORM 864 (NOT SHOWN)	1
18	94100590	LITERATURE LABEL (NOT SHOWN)	1
19	94100790	LITERATURE LABEL (NOT SHOWN)	1
	111019	FASTENER KIT (INCL. 1, 4-11, 13, 15)	1
20	111010	FLAT WASHER	8
21	111013	EQUALIZING BEAM ASSEMBLY LH	1
22	90008139	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	111015	SAFETY STRAP	2
28	111008	LOCK NUT 1-1/8-7	4

NOTE: QUANTITIES LISTED ARE PER AXLE.

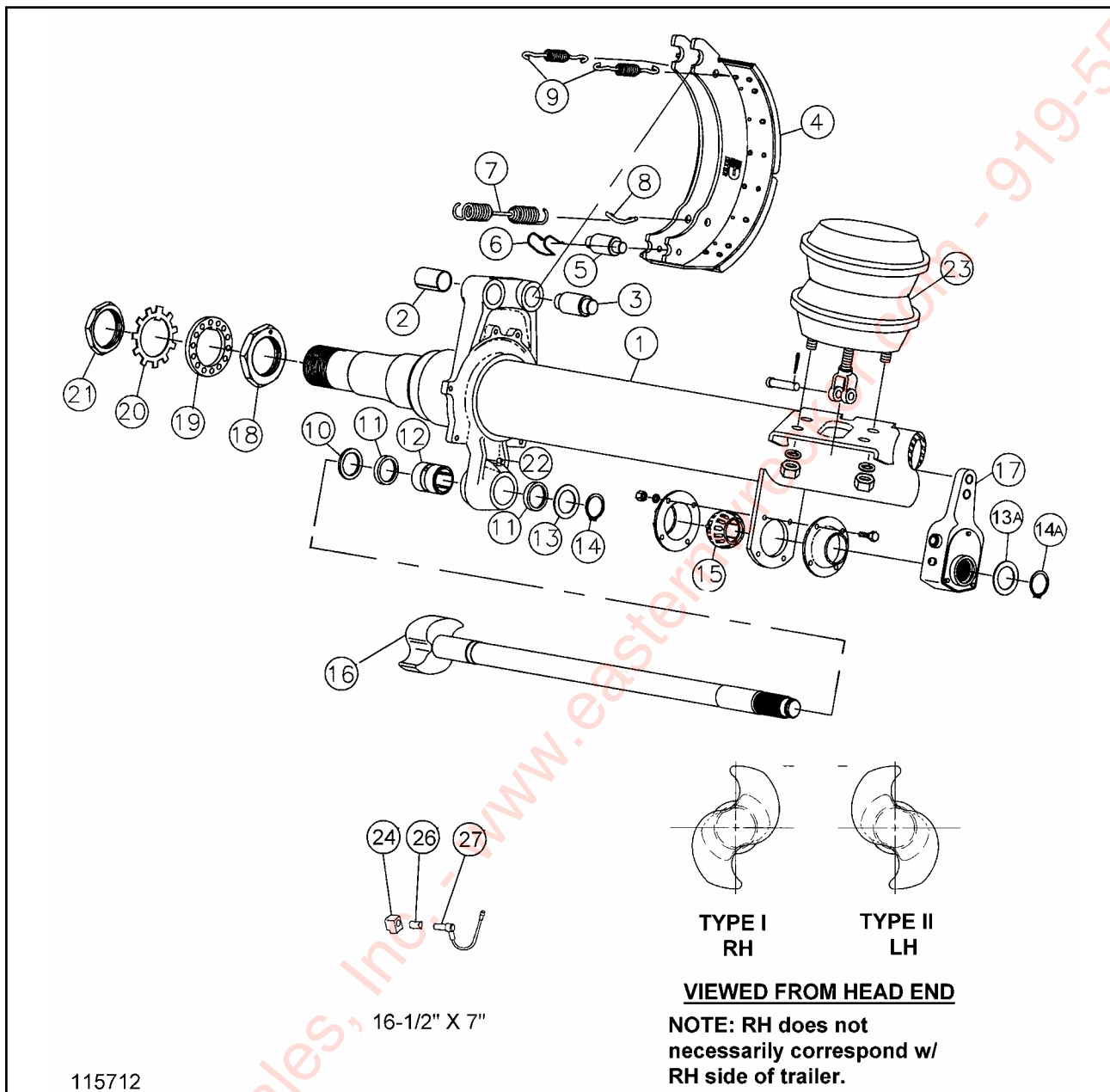


Figure 1-25 Axle and Brake Items

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
	115712	AXLE 67.5, 16.5 X 7 SPG BRK 25K	
	115713	AXLE 69, 16.5 X 7 SPG BRK 25K	
1*	D-2H16	BEAM W/ BRACKETS	1
	**K71-136-00	BRAKE SHOE HDWR KIT (ITEMS 2, 3, 5, 6, 7, 8, & 9)	
2**	014-068-00	BUSHING ANCHOR PIN	4
3**	056-017-00	PIN ANCHOR	4

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
4	040-180-00	BRAKE SHOE AND LINING	4
4A	041-058-01	LINING - BRAKE BLOCK CAM	4
4B	041-059-01	LINING - BRAKE BLOCK ANCHOR	4
	K71-138-00	BRAKE BLOCK KIT (ITEMS 4A, 4B, & P/N 022-018-00 RIVETS)	2
5**	014-065-00	ROLLER KNURLED	4
6**	071-122-00	RETAINER ROLLER	4
7**	046-096-00	SPRING SHOE RETURN	2
8**	056-018-00	RETAINER RETRACTOR SPRING	4
9**	046-097-00	SPRING SHOE KEEPER	4
	***K71-135-00	CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)	
10***	005-096-00	WASHER CAMSHAFT	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2
13***	005-134-00	WASHER CAMSHAFT (FOR 28 SPLINE CAMSHAFT)	2
14***	069-078-00	RETAINER CAMSHAFT (FOR 28 SPLINE CAMSHAFT)	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-192-05	CAMSHAFT LH 22-5/8 (69 TRACK)	1
	034-193-05	CAMSHAFT RH 22-5/8 (69 TRACK)	1
	034-192-01	CAMSHAFT LH 20-3/8 (67.5 TRACK)	1
	034-193-01	CAMSHAFT RH 20-3/8 (67.5 TRACK)	1
17	055-040-06	SLACK ADJUST, AUTOMATIC	2
18	006-114-00	NUT INNER SPINDLE	2
19	005-098-00	WASHER SPINDLE LOCK	2
20	005-099-00	WASHER TABBED SPINDLE LOCK	2
21	006-115-00	NUT OUTER SPINDLE	2
22***	061-006-00	FITTING GREASE 65°	2
23	034-058-01	AIR CHAMBER, SPRING BRAKE	4
24	024-100-00	SENSOR BLOCK	2
26	097-002-00	RETAINER CLIP	2
27	097-003-00	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 BRAKE SHOE HARDWARE KIT LISTED.

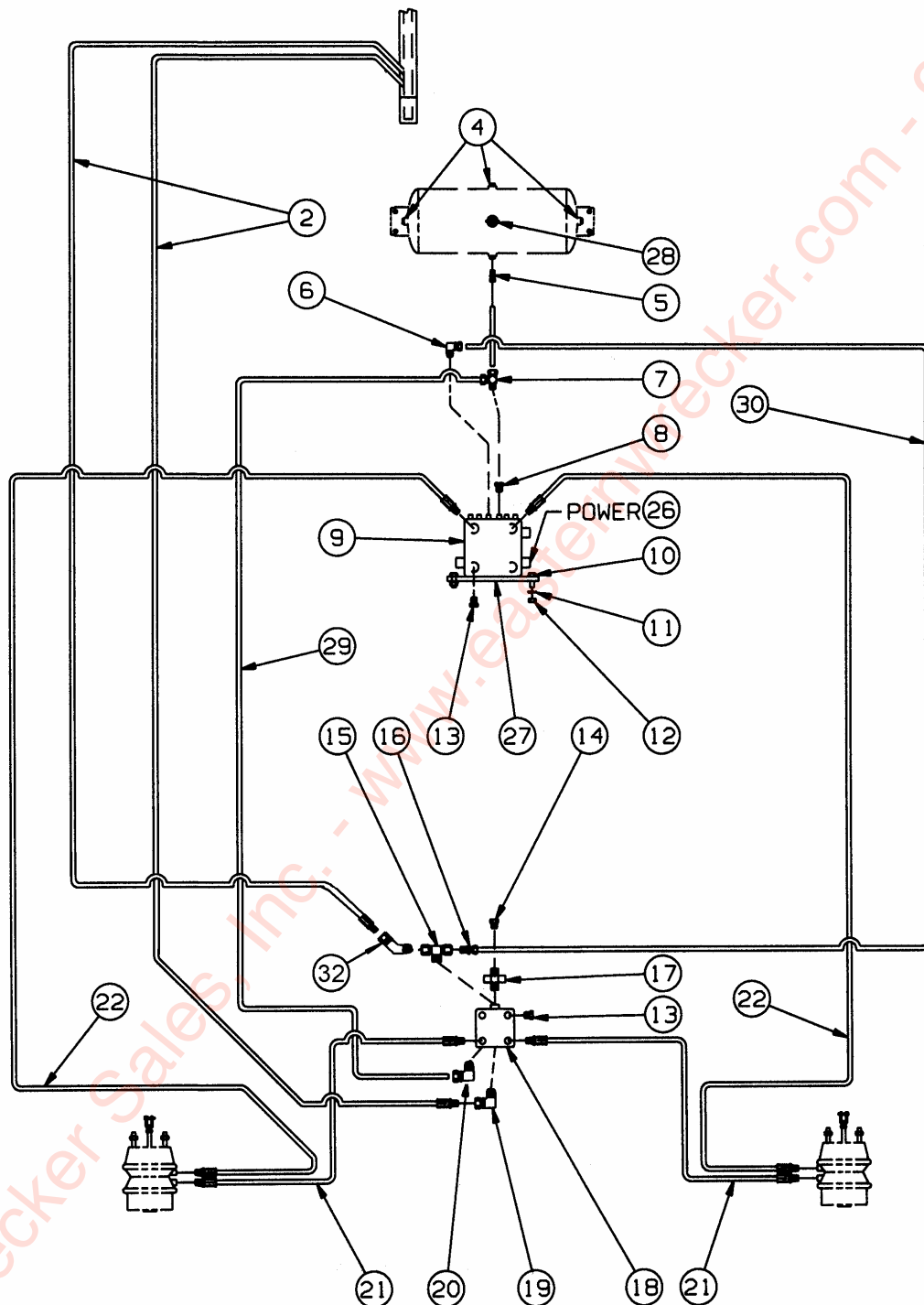
*** THESE PARTS ARE AVAILABLE AS PART OF CAMSHAFT REPAIR KIT P/N LISTED.

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 1-47.

AXLE AND BRAKE ITEMS (KIC/SUDISA) (USED 02/01 TO 05/01)

	BRAKE SHOES AND HARDWARE FOR ONE AXLE
123183	BRAKE REPAIR KIT, 16.5 X 7 KIC/SUDISA
123185	CAMSHAFT BEARING REPAIR KIT 16.5 X 7 BRAKES
123192	CAMSHAFT 16.5 X 7 BRAKES, 69 TRACK RH
123193	CAMSHAFT 16.5 X 7 BRAKES, 69 TRACK LH
055-040-07	AUTO. SLACK ADJUSTER STRAIGHT 16.5 X 7 BRAKE

* IF UNSURE ON AXLE BRAND, CONTACT LANDOLL PDC TO VERIFY



128ma103683

Figure 1-26 Air Brake System, Single Axle

AIR BRAKE SYSTEM, SINGLE AXLE

ITEM	PART NO.	DESCRIPTION	QTY.
	103683	BRAKE W/ ABS SINGLE (STD LOAD)	
	103695	BRAKE W/ ABS SINGLE (LOW LOAD)	
	107917	BRAKE W/ ABS 330-1-40	
2	103698	HOSE AIR 3/8 X 182 (STD LOAD)	2
	103699	HOSE AIR 3/8 X 230 (LOW LOAD)	2
	1-384-0100381120	HOSE AIR 3/8 X 120 (330-1-40)	
4	1-560-010002-04	PLUG PIPE 1/2	3
5	1-297-010007-16	FITTING AIR	1
6	1-297-010008-18	FITTING AIR 90	1
7	1-297-010011-07	FITTING AIR TEE	1
8	118-2659-9	BUSHING 1/2 X 3/4	1
9	114585	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-45)	1
10	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 GR5	2
11	1-861-010032-10	WASHER, FLAT 3/8	4
12	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	2
13	1-297-010033-03	FITTING PLUG, BRASS	4
14	1-560-010002-02	PLUG PIPE 1/4	1
15	1-297-010017-03	FITTING, BRASS TEE	1
16	1-297-010007-12	FITTING AIR	1
17	55B61	FRAME UNION	1
18	758-181	VALVE TASK 4 PORT	1
19	2089-6-6S	ADAPTER 90	1
20	1-297-010008-23	FITTING AIR 90	1
21	1-384-010038024	HOSE AIR 24"	2
22	1-384-010038042	HOSE AIR 42"	2
26	3-272-010021	ELECTRICAL BUTT SPLICE	4
27	1-560-010002-05	PLUG PIPE 3/4-14	1
28	56D4	COCK DRAIN AIR TANK	1
29	1-833-010003	TUBING NYLON 1/2	3'
30	1-833-010002	TUBING NYLON 3/8	2'
31	1-796-01003-01	TIE STRAP PLASTIC (NOT SHOWN)	10
32	2088-6-6S	ADAPTER 45	1

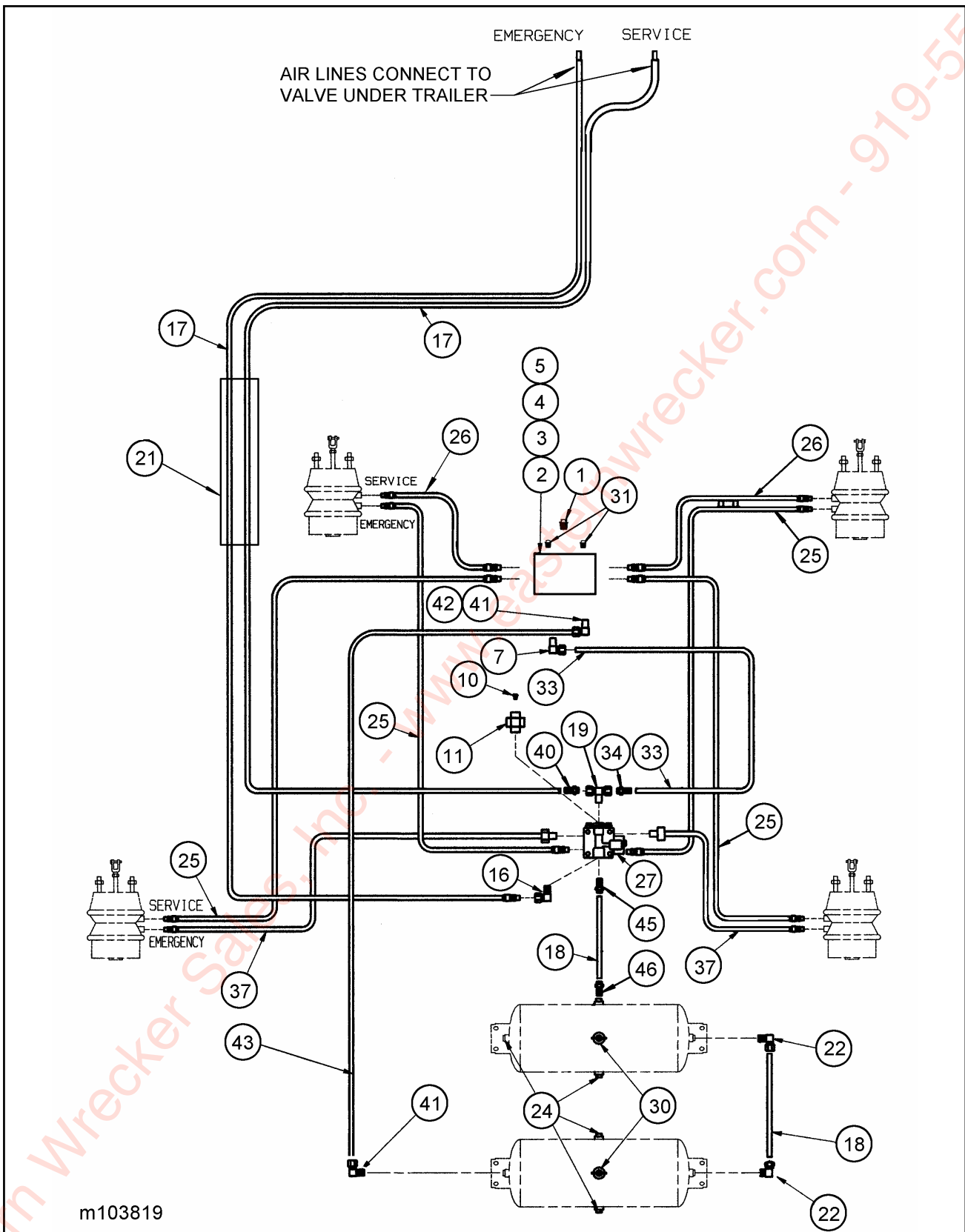
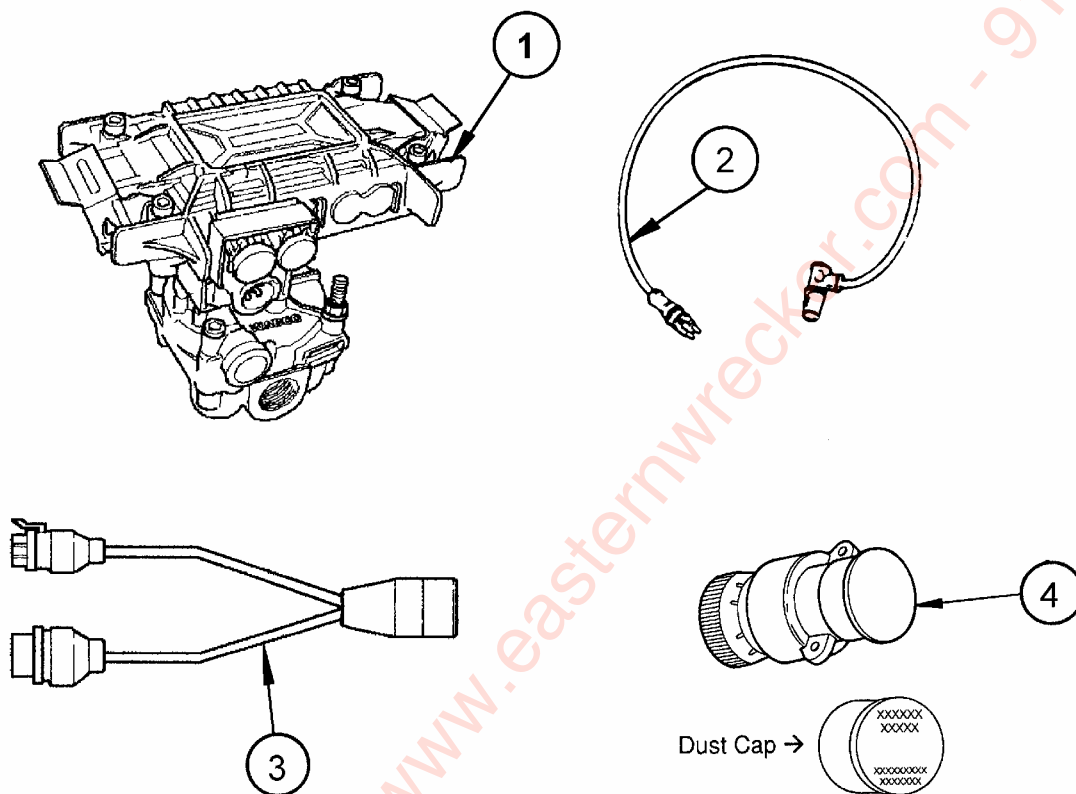


Figure 1-27 Air Brake System, Tandem Axle

AIR BRAKE SYSTEM, TANDEM AXLE

ITEM	PART NO.	DESCRIPTION	QTY.
	103819	BRAKE W/ ABS (STD LOAD)	
	103820	BRAKE W/ ABS (LOAD LOAD)	
1	1-560-010002-05	PLUG PIPE 3/4-14	1
2	1-654-010051-08	SCREW HEX CAP 3/8-16 X 1-3/4 GR5	2
3	1-861-010032-10	WASHER FLAT 3/8	4
4	1-512-0120005-05	NUT HEX LOCK 3/8-16 GR5	2
5	114584	BRAKE KIT ROCKWELL ABS (SEE PAGE 1-42)	1
7	1-297-010008-18	FITTING AIR 90	1
10	1-560-010002-02	PLUG PIPE 1/4	1
11	55B61	FRAME UNION	1
16	2089-6-6S	ADAPTER 90	1
17	1-384-010038204	HOSE AIR 3/8 X 204 (STD LOAD)	2
	103699	HOSE AIR 3/8 X 230 (LOW LOAD)	2
18	1-833-010003	TUBING NYLON 1/2	AR
19	1-297-010017-03	FITTING BRASS PIPE M/ BRASS TEE	1
21	3-755-010189-03	SUPPORT E-CHAIN (STD LOAD)	REF
	3-755-010189	SUPPORT E-CHAIN (LOW LOAD)	REF
22	1-297-010008-24	FITTING AIR 90	2
24	1-560-010002-04	PLUG PIPE 1/2	4
25	1-384-010038056	HOSE AIR 3/8 X 56	4
26	1-384-010038038	HOSE AIR 3/8 X 38	2
27	758-181	VALVE TASK 4 PORT	1
28	1-861-010034-10	WASHER SPLIT LOCK 5/16	2
30	56D4	COCK DRAIN AIR TANK	2
31	1-297-010033-03	FITTING	2
33	1-833-010002	TUBING NYLON 3/8	AR
34	1-297-010007-12	FITTING, AIR	1
35	3-272-010022	ELECTRICAL BUTT SPLICE (NOT SHOWN)	4
37	1-384-010038024	HOSE AIR 3/8 X 24	2
39	1-796-010003-01	TIE STRAP PLASTIC (NOT SHOWN)	10
40	2088-6-6S	ADAPTER 45	1
41	1-297-010008-26	FITTING, AIR 90	2
42	118-2659-9	BUSHING	1
43	117304	NYLON TUBING 5/8	AR
45	1-297-010007-15	FITTING, AIR 1/2 TUBE X 3/8 NPT	1
46	1-297-010007-16	FITTING, AIR 1/2 TUBE X 1/2 NPT	1



**If the Warning Lamp
Comes ON and Stays ON
When You Apply the Brakes
to a Moving Vehicle
SERVICE THE
ABS**
Rockwell WABCO

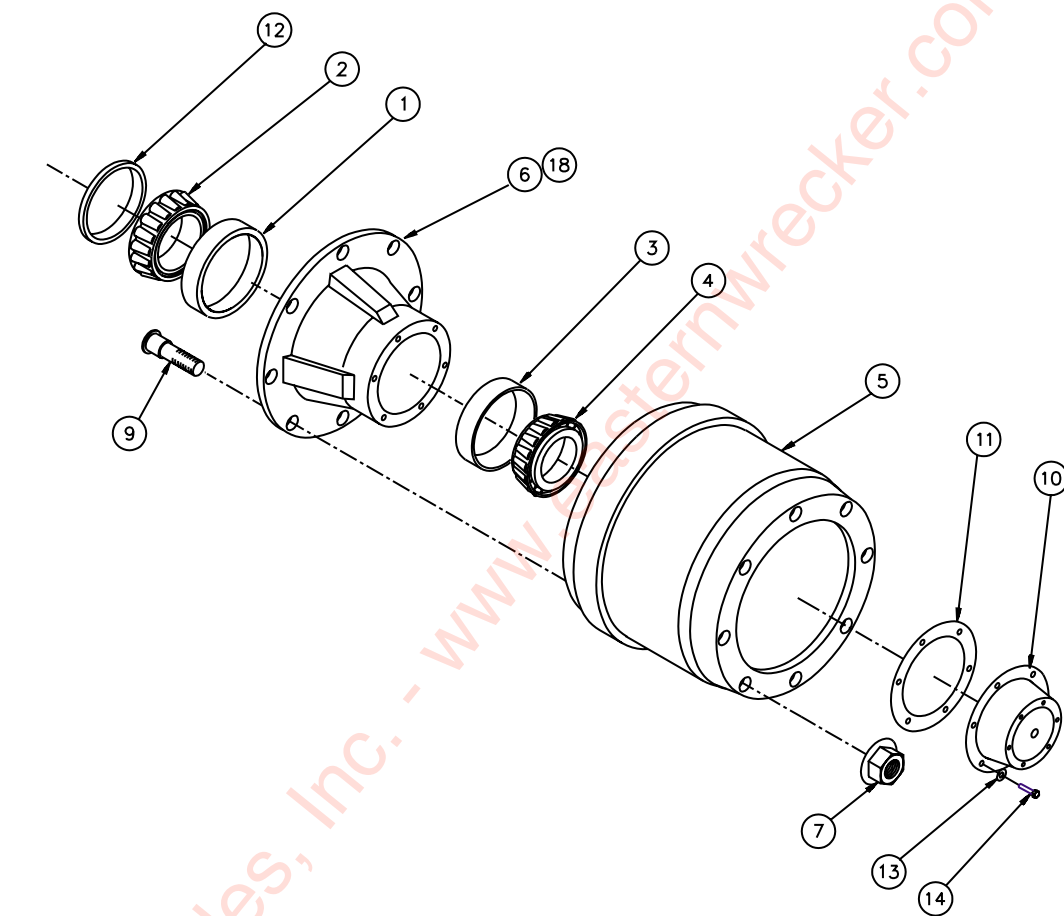
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Figure 1-28 Brake Kit, Meritor WABCO (Rockwell) ABS

BRAKE KIT, ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	114584	BRAKE KIT, ROCKWELL ABS, 4S/2M (TANDEM AXLE)	
	114585	BRAKE KIT, ROCKWELL ABS, 2S/1M (SINGLE AXLE)	
1	114588	ECU/VALVE ASSEMBLY 4S/2M PREMIUM (114584)	1
	114589	ECU/VALVE ASSEMBLY 2S/1M (114585)	1
2	101848	SENSOR EXTENSION CABLE	4,2*
3	114590	POWER/DIAGNOSTIC CABLE	4
4	101851	DIAGNOSTIC SWITCH	1
5	101855	WARNING LAMP LABEL	1
6	114587	MAINTENANCE MANUAL MM-180 (NOT SHOWN)	1

* THE FIRST QUANTITY LISTED IS FOR P/N 114584. THE SECOND QUANTITY LISTED IS FOR P/N 114585.



HUBOABS2.DWG

Figure 1-29 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	103783	HUB/DRUM 10 BOLT 16-1/2 PILOT ABS LONG STUD	
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	110976(66884)	OUTBOARD MOUNTED BRAKE DRUM	1
6	110975(2023----T)	HUB IRON	1
7	179933	FLANGE NUT	10
9	101160	STUD	10
10	021-038-01 (4009)	CAP HUB	1
11	071-124-00 (3067)	GASKET OIL CAP	1
12	3-659-010012	SEAL	1
13	1-861-010034-10	WASHER SPLIT LOCK 5/16	6
14	1-654-010049-03	SCREW HEX HEAD CAP 5/16-18X3/4 GR5	6
15	3-870-010110	WHEEL DISC PILOT MOUNT 22.5 X 8.25	1
	111416	WHEEL ALUM, PILOT MOUNT 22.5 X 8.25	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	TR545D	VALVE STEM (NOT SHOWN)	1
18	*	ABS TONE RING	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE HUB. IT IS NOT SOLD SEPARATELY.

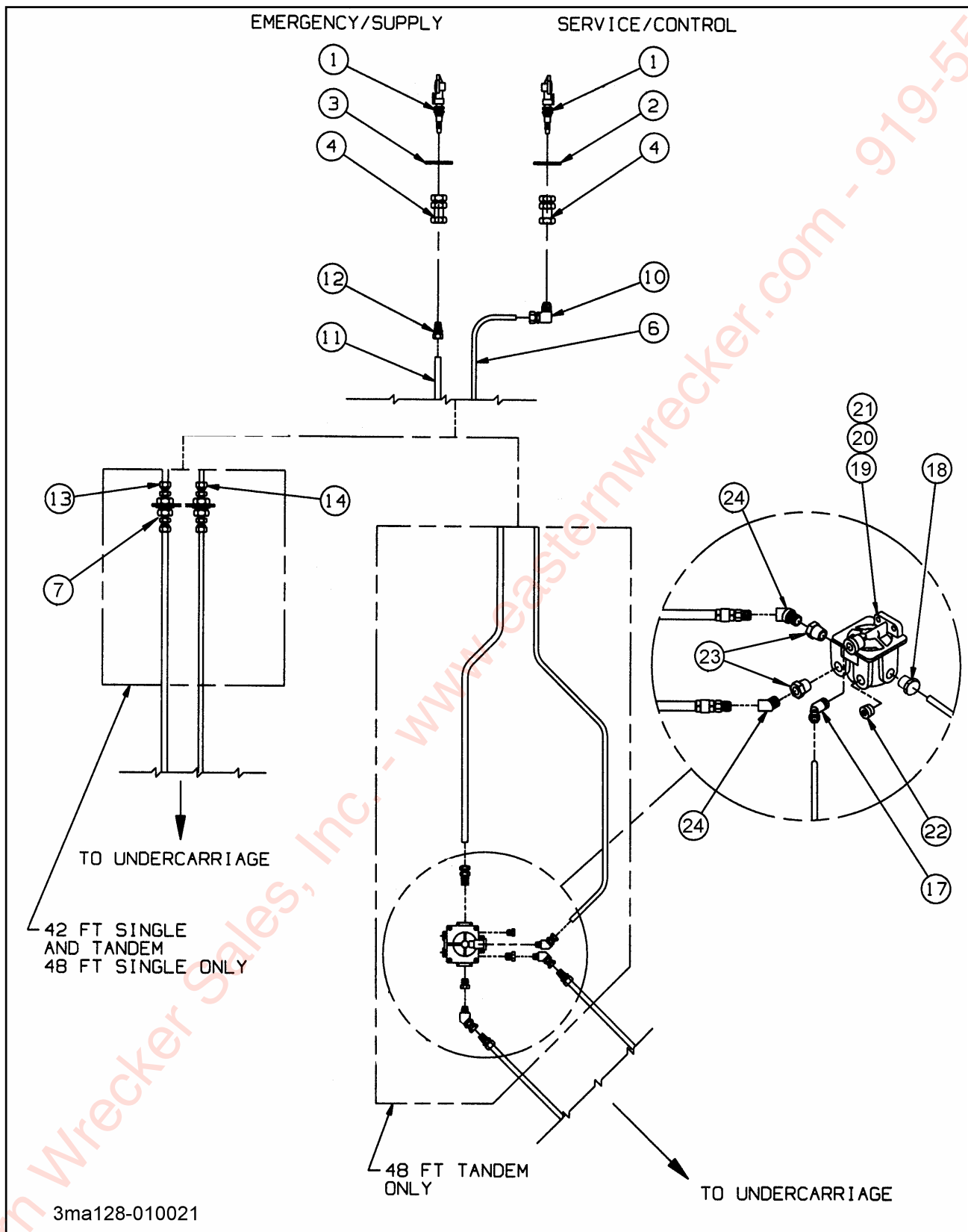


Figure 1-30 Air System

AIR SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010021-03	AIR SYSTEM 42' SINGLE OR TANDEM	
	3-128-010021-04	AIR SYSTEM 48' SINGLE	
	3-128-010021-07	AIR SYSTEM 48' TANDEM	
1	108801	GLADHAND RED AIR	1
	108802	GLADHAND BLUE AIR	1
2	55B61-7	TAG, SERVICE LINE	1
3	55B61-6	TAG, EMERGENCY LINE	1
4	55B61	FRAME UNION	2
6	1-833-010002	NYLON TUBING, 3/8 OD	AR
7	1-297-010022-03	FITTING, AIR	2
10	1-297-010008-18	FITTING, AIR 90	1
11	1-833-010003	TUBING NYLON 1/2	AR
12	1-297-010007-14	FITTING, AIR	1
13	1-297-010007-12	FITTING, AIR (42' & 48' SINGLE ONLY)	1
14	1-297-010007-15	FITTING, AIR (42' & 48' SINGLE ONLY)	1
17	1-297-010013-12	FITTING, AIR 45 (48' TANDEM ONLY)	1
18	1-297-010007-16	FITTING, AIR (48' TANDEM ONLY)	1
19	3-843-010038	VALVE AIR RELAY-FAST AIR BALANCE (48' TANDEM ONLY)	1
20	1-861-010032-06	WASHER, FLAT 1/4N (48' TANDEM ONLY)	2
21	1-512-010005-01	NUT, HEX LOCK 1/4-20 (48' TANDEM ONLY)	2
22	1-560-010002-04	PLUG, PIPE 1/2 (48' TANDEM ONLY)	1
23	2081-8-6S	REDUCER (48' TANDEM ONLY)	2
24	2088-6-6S	FITTING, AIR 45 (48' TANDEM ONLY)	2

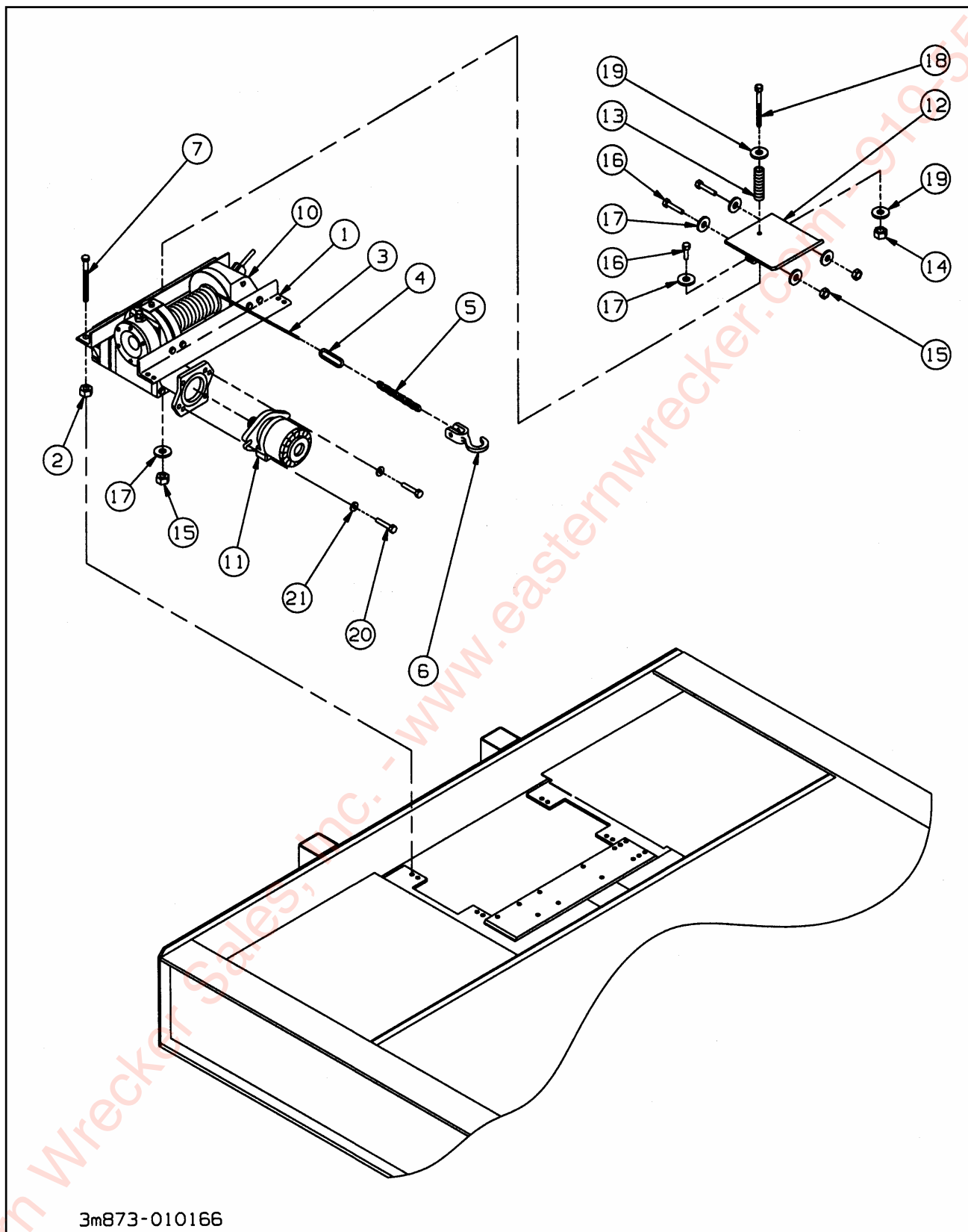


Figure 1-31 Winch Installation

WINCH INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010166-01	WINCH INSTL 12K W/PARKER MOTOR 42' (INCL 1-9)	
	3-873-010166-02	WINCH INSTL 12K W/PARKER MOTOR 48' (INCL 1-9)	
	3-873-010166-03	WINCH INSTL 20K W/PARKER MOTOR 42' (INCL 1-9)	
	3-873-010166-04	WINCH INSTL 20K W/PARKER MOTOR 48' (INCL 1-9)	
	100351	WINCH INSTL 12K SLOPE (INCL 1-10)	
1	3-873-010126-2	WINCH ASSEMBLY 12K PARKER (INCL 10-22)	REF
	3-873-010129-2	WINCH ASSEMBLY 20K PARKER (INCL 10-22)	REF
2	1-512-010005-09	NUT HEX LOCK 1/2-13	8
3	3-155-010017-1	CABLE 1/2 W/LOOP 60"	REF
	3-155-010017-4	CABLE 1/2 W/LOOP 85'	REF
	3-155-010018-1	CABLE 5/8 W/LOOP 60'	REF
	3-155-010018-6	CABLE 5/8 W/LOOP 85'	REF
4	3-174-010038	CHAIN LINK CONNECTING 1/2	1
5	3-174-010039036	CHAIN 1/2 X 36" GRD 7	1
6	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
7	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2	8
8	2-181-010001	HOSE CLAMP (NOT SHOWN)	REF
9	1-510-010001	NUT FLANGE LOCK 3/8-16 (NOT SHOWN)	REF
10	3-873-010122	WINCH WORM GEAR 12K (SEE PAGE 1-53)	1
	3-873-010123	WINCH WORM GEAR 20K (SEE PAGE 1-54)	1
11	3-481-010006	MOTOR HYDRAULIC 12K (SEE PAGE 1-66)	1
	3-481-010007	MOTOR HYDRAULIC 20K (SEE PAGE 1-66)	1
12	3-873-010124	WINCH TENSIONER WLDMT 12K	1
	102186	WINCH TENSIONER WLDMT 20K	1
13	3-720-010010	SPRING COMP LEVEL WIND	1
14	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	1
15	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	3
16	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 GR5	3
17	1-861-010032-10	WASHER FLAT 3/8 N	6
18	1-654-010055-16	SCREW HEX HEAD CAP 1/2-13 X5-1/2 GR5 12K	1
	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5 20K	1
19	1-861-010032-15	WASHER FLAT 1/2W	2
20	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13 X 1-3/4 GR5	2
21	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
22	100600	DECAL WARNING WINCH (NOT SHOWN)	1

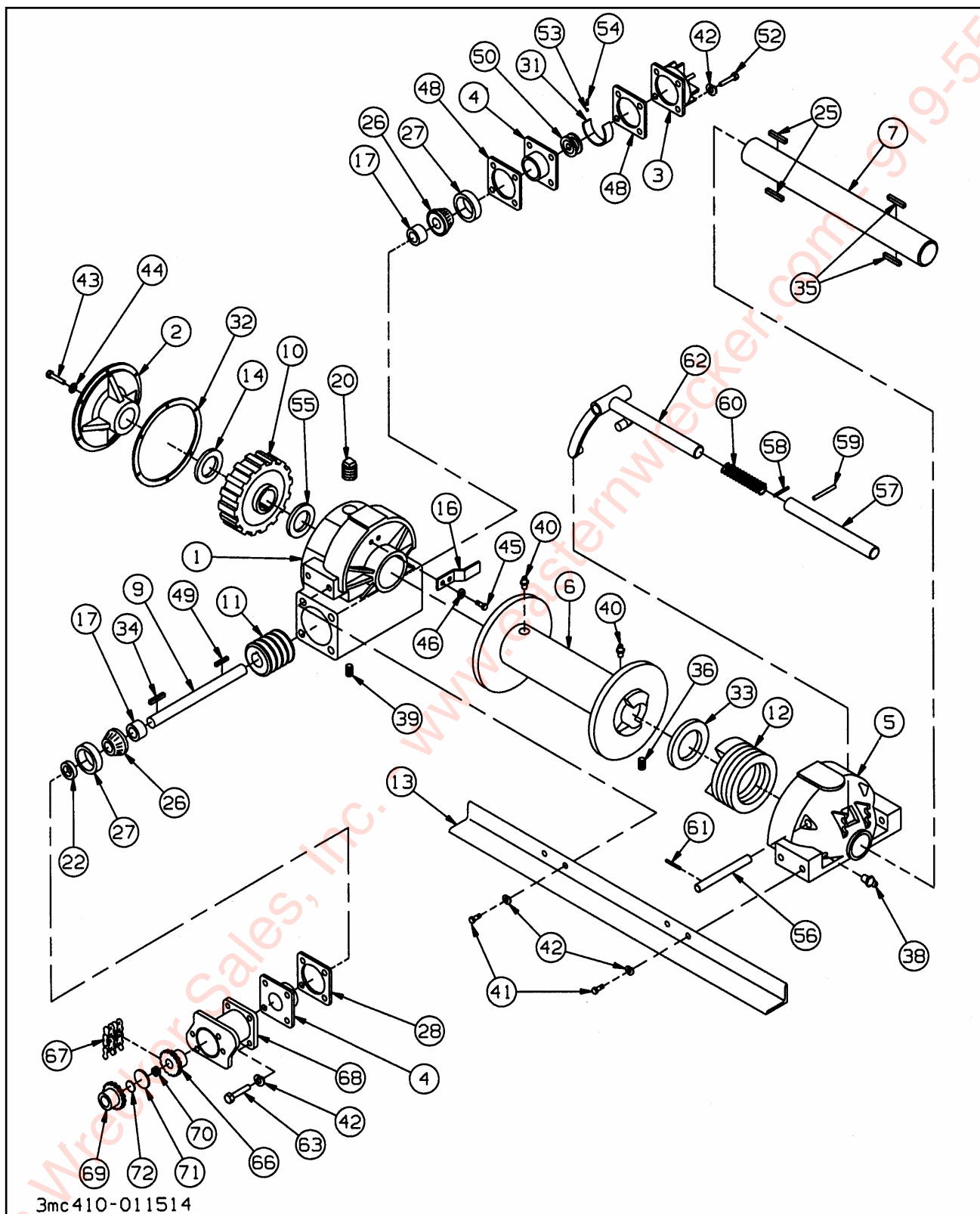


Figure 1-32 12,000# Winch Assembly

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH, 12K	
1	81006	WORM HOUSING ASSEMBLY (INCLUDES ITEM 18)	1
2	81009	COVER ASSEMBLY WORM HOUSING (INCLUDES ITEM 19)	1
3	18032	HOUSING SAFETY BRAKE	1
4	23303	CONTAINER BEARING	2
5	81530	LEG ASSEMBLY BEARING (INCLUDES ITEM 47)	1
6	11128	DRUM CABLE	1
7	11129	DRUM SHAFT CABLE	1
9	23470	SHAFT WORM	1
10	11144	GEAR WORM LEFT HAND	1
11	11142	WORM LEFT HAND	1
12	18039	SLIDING CLUTCH	1
13	22752	ANGLE BASE	2
14	13680	THRUST RING	1
16	81025	BRAKE DRAG	1
17	11308	SPACER WORM	2
18	18078	BUSHING	1
19	11368	BUSHING	1
20	22775	PLUG PIPE	1
21	18009	PLUG PIPE	1
22	18026	SEAL GREASE	2
25	11117	KEY WORM GEAR	2
26	18015	CONE BEARING	2
27	18016	CUP BEARING	2
28	18027	GASKET	3
31	21925	BAND BRAKE	1
32	11133	WORM HOUSING COVER GASKET	3
33	18019	RETAINER RING	1
34	18030	KEY WORM	1
35	18020	KEY CLUTCH	2
36	24032	SET SCREW	1
38	18047	FITTING GREASE	1
39	19045	PLUG PIPE	1
40	11799	FITTING GREASE	2
41	21961	CAPSCREW	12
42	18003	WASHER LOCK	16
43	11767	CAPSCREW	6
44	11011	WASHER LOCK	6
45	13005	CAPSCREW	2
46	12780	WASHER LOCK	2
47	18078	BUSHING	1
48	18024	BEARING CONTAINER GASKET	3
49	10078	KEY	1
50	18028	DRUM BRAKE	1
51	12075	SCREWSET	1
52	22703	CAPSCREW	4
53	13468	JAM NUT	4
54	18029	BRAKE BAND SPRING	1
55	11240	RETAINER RING	1

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
56	11130	SHIFTER SHAFT	1
57	12817	SHIFTER HANDLE	1
58	18056	ROLL PIN	1
59	13028	ROLL PIN	1
60	18002	SPRING	1
61	11837	ROLL PIN	2
62	13839	SHIFTER FORK	1
63	22704	CAPSCREW	4
65	18044	KEY	1
66	23081	COUPLING HALF (WORM SHAFT)	1
67	13424	ROLLER CHAIN	1
68	23079	MOTOR ADAPTER	1
69	23083	COUPLING HALF (MOTOR SHAFT)	1
70	23353	SPRING	1
71	23078	SPACER	1
72	23085	SPACER	1

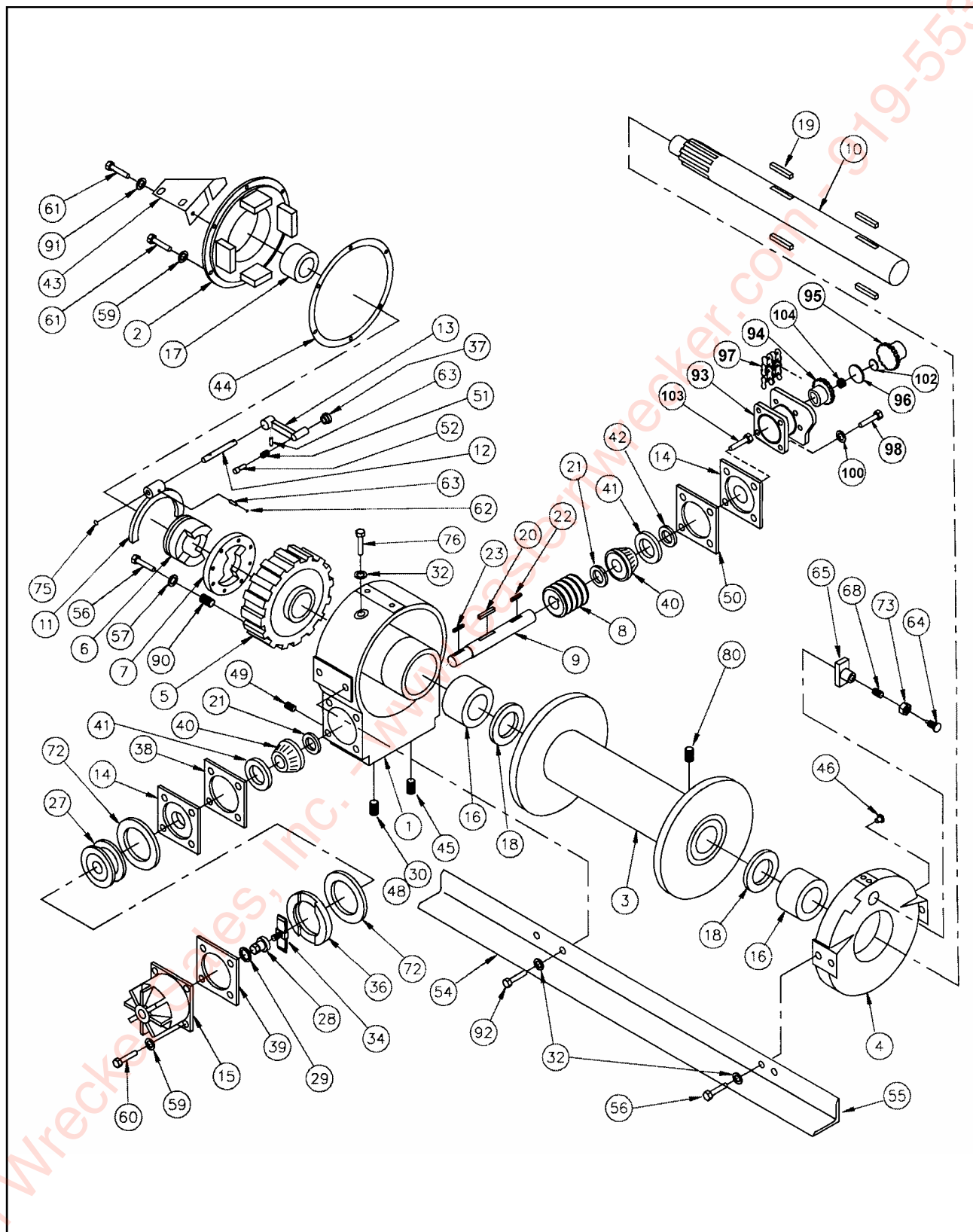


Figure 1-33 20,000# Winch Assembly

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH, 20K	
1	81078	WORM HOUSING ASSEMBLY	1
2	81082	COVER ASSEMBLY WORM HOUSING	1
3	11449	DRUM CABLE	1
4	81077	LEG ASSEMBLY BEARING	1
5	11434	WORM GEAR RIGHT	1
6	11421	CLUTCH SIDING	1
7	11419	DRIVE CLUTCH	1
8	11404	WORM RIGHT	1
9	11405	SHAFT WORM	1
10	11414	SHAFT CABLE DRUM	1
11	11440	FORK SHIFTER	1
12	11441	SHAFT SHIFTER	1
13	11442	HANDLE SHIFTER	1
14	11427	CONTAINER BEARING	2
15	11445	COVER WORM BRAKE	1
16	18035	BUSHING	2
17	11425	BUSHING	1
18	11420	RING RETAINING	2
19	22055	DRUM KEY CABLE	4
20	11402	KEY WORM	1
21	11407	SPACER WORM	2
22	23367	KEY SPROCKET	1
23	10078	KEY ROTOR	1
27	81080	ROTOR ASSEMBLY BRAKE	1
28	11599	ADJUSTING NUT WORM BRAKE	1
29	12465	O-RING	1
30	19014	PLUG FILLER	1
32	11026	WASHER LOCK	10
34	81081	SPRING ASSEMBLY SAFETY BRAKE	1
36	11431	PLATE PRESSURE	1
37	18022	KNOB SHIFTER	1
38	11429	GASKET	4
39	11446	GASKET	2
40	18033	BEARING CONE	2
41	18034	BEARING CUP	2
42	12073	SEAL GREASE	1
43	12783	BRACKET SHIFTER	1
44	11411	COVER GASKET HOUSING	1
45	19045	PLUG DRAIN	1
46	18047	FITTING GREASE	1
48	22775	PLUG VENT	1
49	18009	PLUG LEVEL	1
50	11430	GASKET	4
51	11310	SPRING SHIFTER KNOB	1
52	11309	STEM SHIFTER KNOB	1
54	28942	ANGLE FRONT BASE	1
55	28943	ANGLE REAR BASE	1
56	13938	CAPSCREW	16

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
57	12781	WASHER LOCK	8
58	18056	ROLL PIN	1
59	11025	WASHER LOCK	3
60	22695	CAPSCREW	4
61	21964	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLL PIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	22729	CAPSCREW	2
77	23245	SAE PLATE - AMU7-16F	1
78*	23310	PLATE WARNING	1
79*	11842	SCREW DRIVE	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER (7/8" EXTERNAL TOOTH)	1
92	22697	CAPSCREW	5
93	23079	ADAPTER - MOTOR	1
94	23081	COUPLING HALF-WINCH	1
95	23142	COUPLING HALF-MOTOR	1
96	23078	SPACER - CONSTANT	1
97	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

NOTE: ITEMS 1 AND 4 INCLUDE BUSHING (ITEM 16); ITEM 2 INCLUDES BUSHING (ITEM 17).

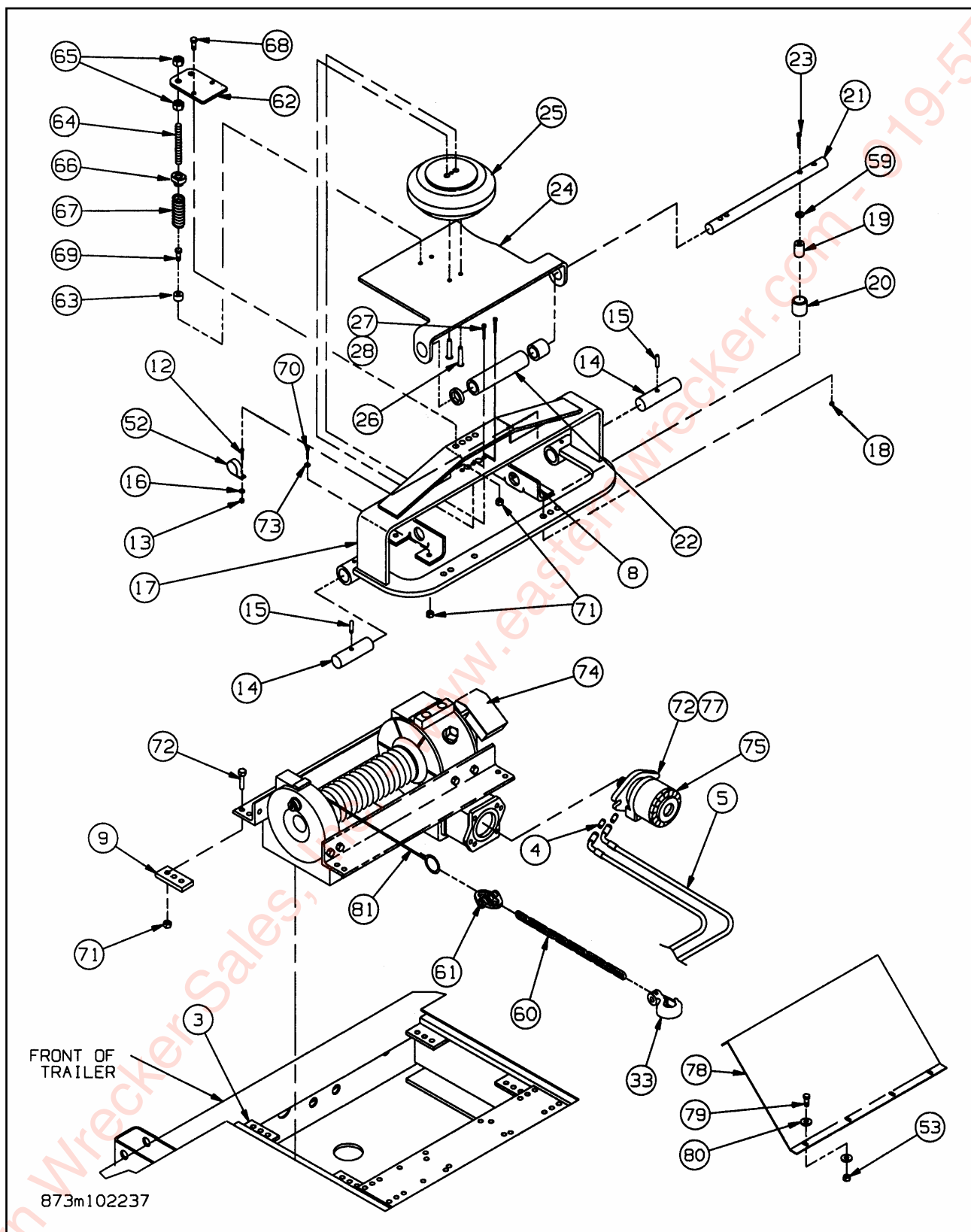
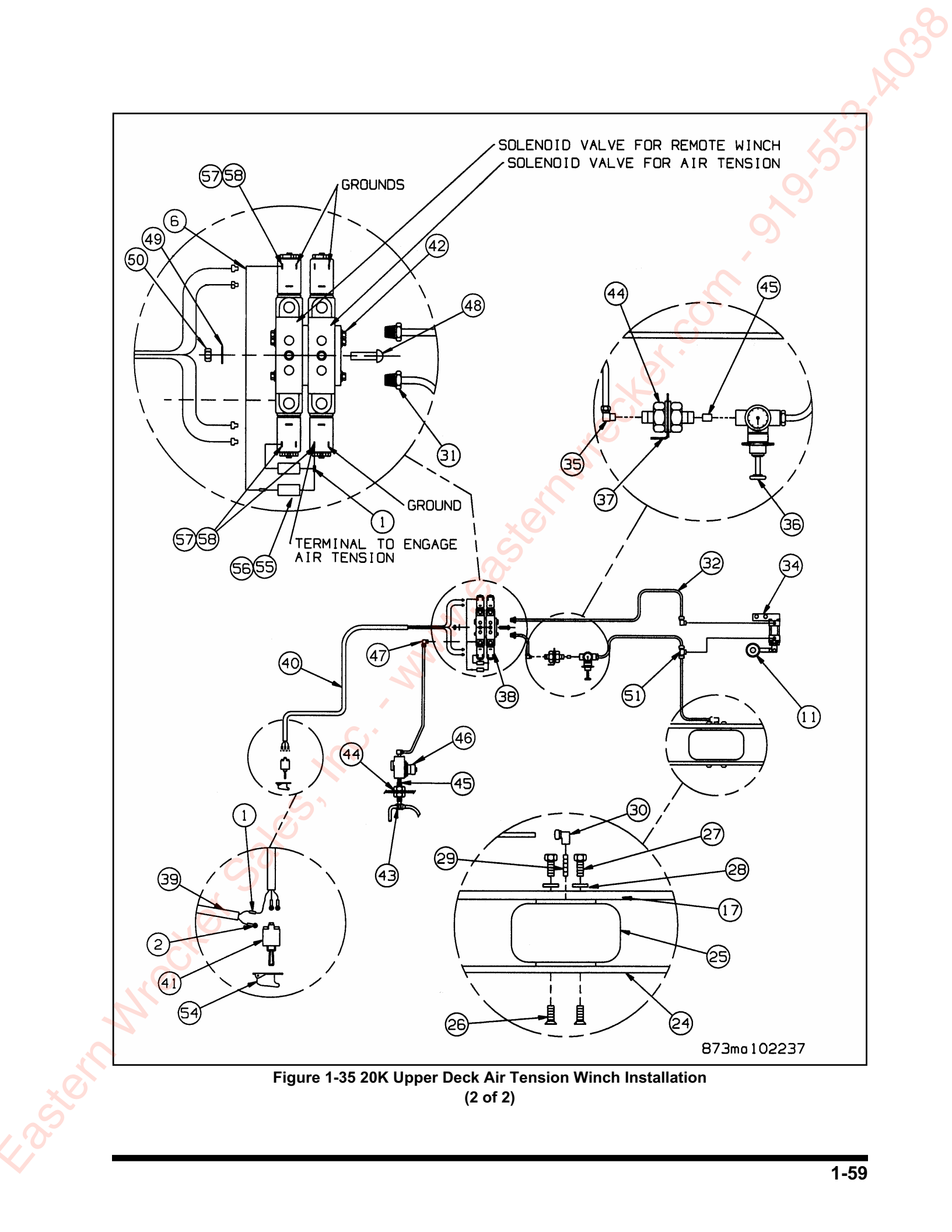


Figure 1-34 20K Upper Deck Air Tension Winch Installation
(1 of 2)



(2 of 2)

WINCH AIR TENSION INSTALLATION 20K UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
	102237	WINCH AIR TENSIONER 20K U/D W/ REMOTE CONTROLS	
1	3-272-010021	ELECT BUTT SPLICE W/SEAL	5
2	32002	TERMINAL 12-10GA W/ #10 RING WAY	1
3	3-482-010252	MOUNT WINCH	2
4	202702-10-8S	ADAPTER	2
5	1-397-010302240	HOSE ASSEMBLY 1/2 X 240	2
	100062	HOSE ASSEMBLY 1/2 X 286	2
6	1-879-010011	BLACK WIRE 14 AWG	1
8	3-014-010208	ANCHOR CABLE GUIDE WINCH	2
9	3-711-010110	SPACER AIR TENSION MOUNT	4
10	3-573-010442	DECAL, WINCH TENSION	1
11	3-150-010186	BUSHING WINCH REMOTE LEVER	1
12	1-656-010003053	SCREW RD HD MACH 10-24 X 1	1
13	1-512-010007-03	NUT HEX 10-24 GRB	1
14	3-557-010474	PIN PIVOT WINCH ROLLER	2
15	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8	2
16	1-861-010034-07	WASHER SPLIT LOCK #10	1
17	3-125-010465	BRACKET WELDMENT WINCH TENSION 600	1
18	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	2
19	3-150-010196	BUSHING WINCH ROLLER-SIDE-600	2
20	3-831-010172	TUBE ROLLER-SIDE-600	2
21	102188	ROD PIVOTING GUIDE 20K WINCH	1
22	3-831-010182	TUBE ROLLER TOP-600 20K	1
23	1-654-010059-15	SCREW HEX HEAD CAP 5/8-11 X 5 GR8	2
24	102187	PLATE WINCH TENSIONER 20K AIR	1
25	3-720-010042	SPRING AIR 6-1/2	1
26	1-654-010141-04	SCREW HEX SOC CTSK 3/8-16 X 1GR8	2
27	1-654-010036-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR8	2
28	1-861-010032-10	WASHER FLAT 3/8N	2
29	1-297-010031-02	FITTING BRASS PIPE	1
30	1-297-010032-03	FITTING AIR 90 1/4FP X 1/4TUBE	1
31	1-297-010007-04	FITTING AIR 1/4TUBE X 1/8NPT	2
32	1-833-010001	TUBING NYLON 1/4OD	36
33	7HCGHT500	1/2 CLEVIS GRAB HOOK	1
34	107368	CYLINDER, AIR W/ BRACKET (SEE PAGE 1-63)	1
35	1-297-010008-07	FITTING AIR 90 1/4TUBE X 1/4NPT	3
36	3-626-010004	REGULATOR AIR PRESSURE	1
37	3-120-010445	BRACKET PRESSURE REGULATOR	1
38	3-843-010022	VALVE PNEU 4 WAY, 2 POS (NO PARTS BREAKDOWN)	1
39	3-156-010008	CABLE 14-2 SO TWO CONDUCTOR	6
40	3-368-010129	HARNESS REMOTE SWITCH	1
41	1-765-010065	TOGGLE SWITCH	1
42	3-136-010001-01	BREATHER, PNEUMATIC EXHAUST	*2
43	1-297-010015-09	FITTING AIR BRANCH TEE	1
44	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
45	1-297-010020-02	FITTING BRASS PIPE	1
46	905-54-107	VALVE & FILTER PRESSURE	*1
47	1-297-010008-05	FITTING, AIR 90	*1
48	1-654-010024014	SCREW, MACH FIL #6-32 X 1-1/2	*3
49	1-861-010032-01	WASHER, FLAT #6	*6
50	1-512-010003-02	NUT, HEX LOCK #6-32	*3

WINCH AIR TENSION INSTALLATION 20K UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
51	1-297-010015-02	FITTING AIR BRANCH TEE	1
52	239-9076-3	SUPPORT CLAMP	1
53	1-512-010005-05	NUT, HEX LOCK 3/8-16	8
54	3-348-010048	GUARD SWITCH - 3 POSITION	1
55	3-272-010109	DIODE ZENOR 20V 5-WATT	2
56	3-272-010018	TUBING HEAT SHRINK W/ SEALANT	2
57	C29-1104X	CONN FEMALE 1/4 SPADE INSULATED	3
58	3-272-010157	ELECT ADAPTER CHAIR 1/4 PUSHON	3
59	1-861-010032-18	WASHER FLAT 5/8N	2
60	3-174-010038	CHAIN LINK CONNECTING 1/2	1
61	3-174-010039036	CHAIN 1/2 X 36 GR7	1
62	3-565-011688	PLATE F/W SPRING TENSION	2
63	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION-600	2
64	RTR7999X4ZP	ROD THREADED 3/4-10 X 4-7/8	2
65	1-512-010007-12	NUT HEX 3/4-10 GR8	4
66	3-522-010017	NUT F/W SPRING TENSION	2
67	3-720-010035	SPRING	2
68	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
69	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13 X 1 GR5	2
70	1-654-010055-07	SCREW HEX HEAD CAP 1/2-13 X 2-1/2 GR5	4
71	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	14
72	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	10
73	1-861-010032-14	WASHER FLAT 1/2N	4
74	3-873-010123	WINCH WORM GEAR 20K (SEE PAGE 1-56)	1
75	3-481-010007	MOTOR HYDRAULIC (SEE PAGE 1-66)	1
76	100600	DECAL WARNING WINCH (NOT SHOWN)	1
77	1-861-010034-13	WASHER SPLIT LOCK 1/2	2
78	3-222-010083	COVER, WINCH SLOPE	1
79	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
80	1-861-010032-11	WASHER, FLAT 3/8	12
81	3-155-010018-1	CABLE 5/8 W/LOOP 60 FT.	REF
	3-155-010018-6	CABLE 5/8 W/LOOP 85 FT.	REF
82	107369	LEVER, WINCH FREE SPOOL	1
83	1-512-010007-05	NUT, HEX 1/4-20	1
84	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1

* USED ON MODELS W/O REMOTES

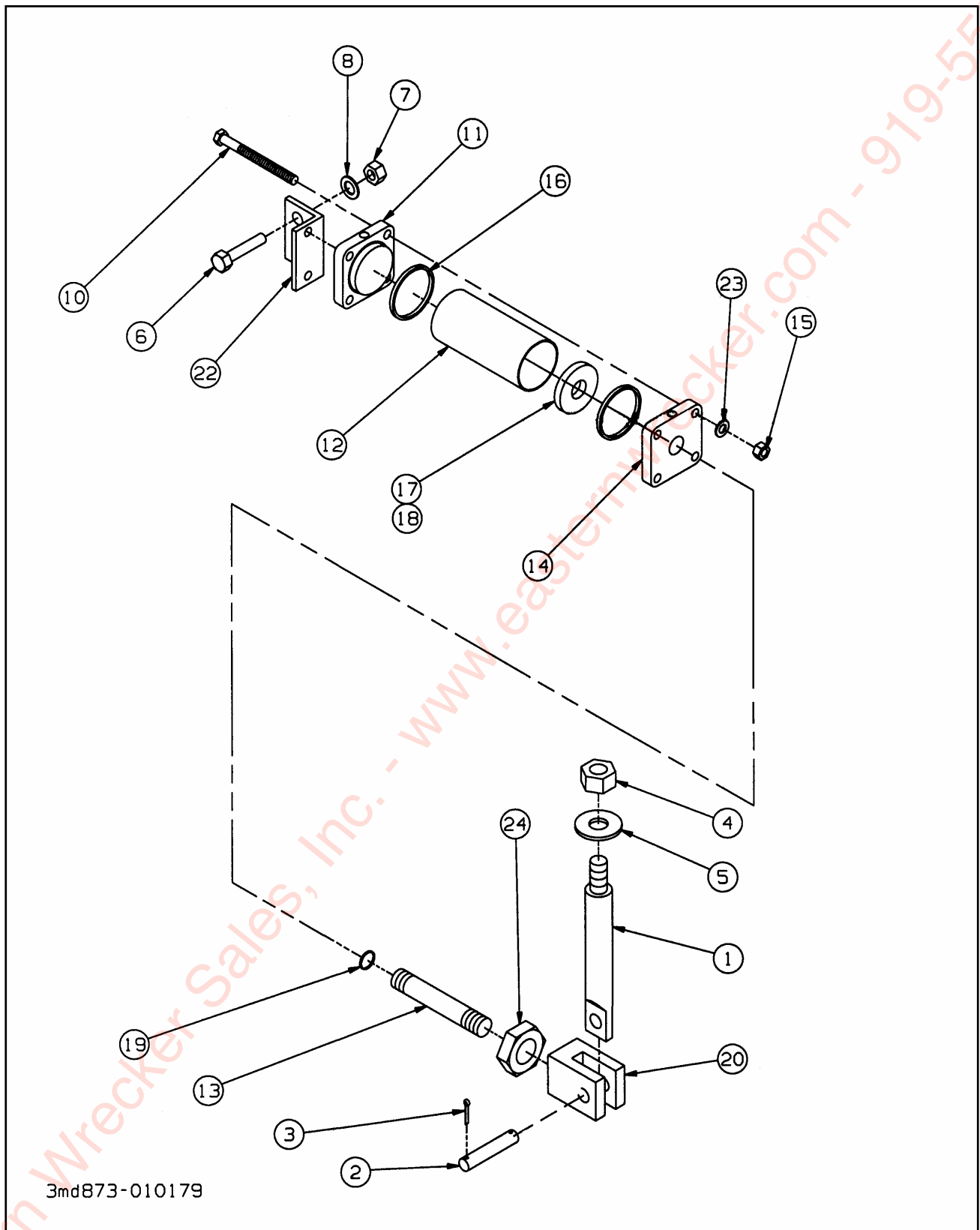


Figure 1-36 Winch Air Shift Cylinder

WINCH AIR SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY.
	107368	CYLINDER, AIR W/ BRACKET (INCLUDES ITEMS 1-23)	
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	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	CLEVIS	1
21	1224	NUT	1
22	2389	BRACKET	1
23	1766	LOCKWASHER	4
24	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	3109	O-RING KIT FOR CYLINDER	

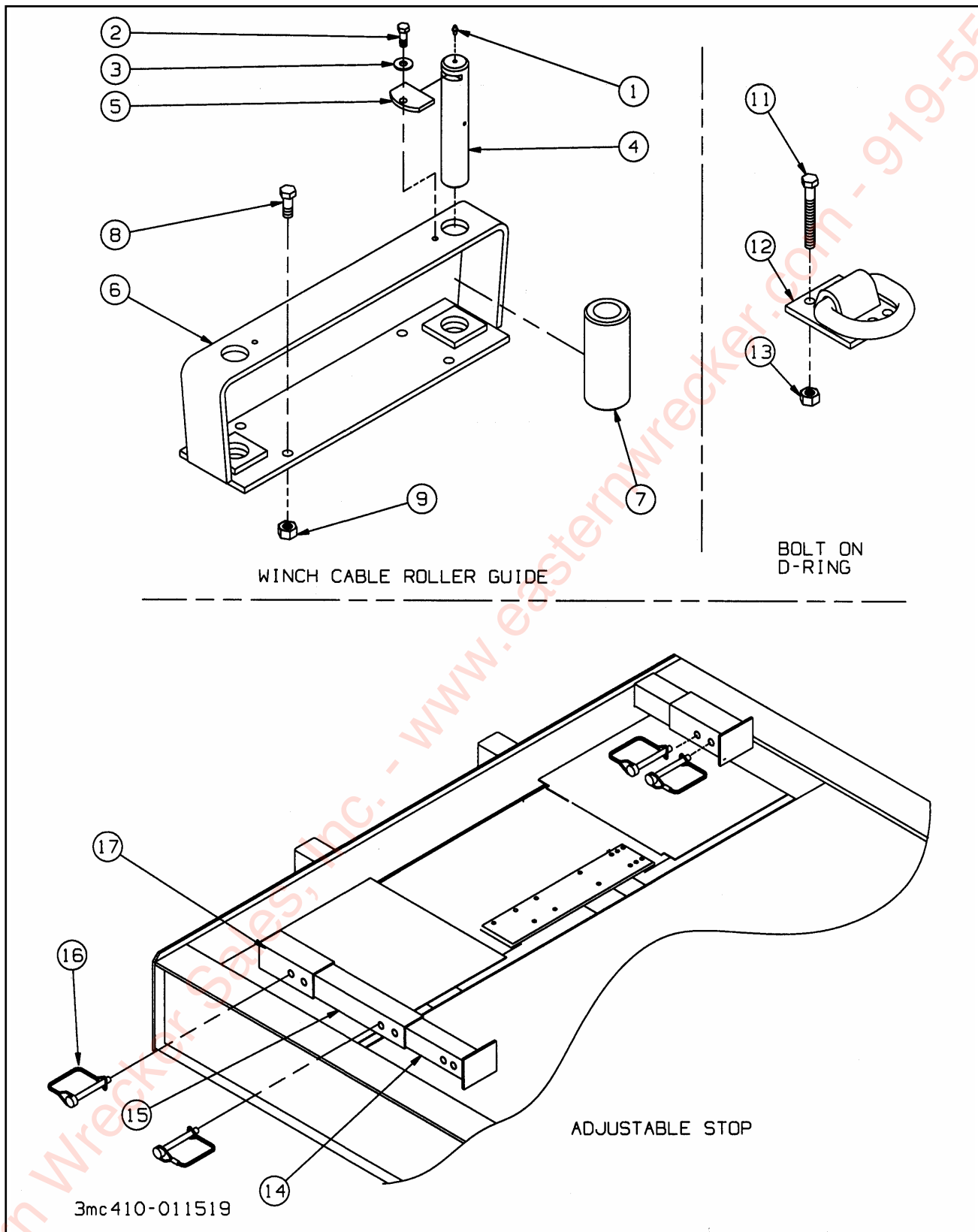


Figure 1-37 Winch Cable Roller Guide (Optional)

WINCH CABLE ROLLER GUIDE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-352-010017-1	GUIDE INSTALLATION WINCH CABLE 12K	
	3-352-010017-2	GUIDE INSTALLATION WINCH CABLE 20K	
1	1-298-010001-1	FITTING GRS 1/4-28 STR SHORT	2
2	1-654-010051-03	SCREW HEX HEAD CAP 3/8-16 X 3/4 GR5	2
3	1-861-010034-11	WASHER SPLIT LOCK 3/8	2
4	3-557-010383	PIN CABLE GUIDE ROLLER	2
5	3-565-010770	PLATE CABLE GUIDE LOCK	2
6	3-120-010295	BRACKET WLDMT 12K ROLLER	1
	3-120-010294	BRACKET WLDMT 20K ROLLER	1
7	3-645-010049	ROLLER WINCH CABLE GUIDE	2
8	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	4
9	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
10	3-352-010015-3	GUIDE ASSY WINCH CABLE 12K (INCL. ITEMS 1-7)	1
	3-352-010015-4	GUIDE ASSY WINCH CABLE 20K (INCL. ITEMS 1-7)	1

BOLT-ON D-RING (OPTIONAL)

	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X1-1/2 GR5	6
12	3-793-010040	TIE DOWN WINCH	1
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GR B	6

STOP INSTALLATION, ADJUSTABLE (OPTIONAL)

	3-741-010085	STOP INSTALLATION ADJUSTABLE 330	
14	3-829-010327	TUBE WELDMENT 3'	2
15	3-829-010329	TUBE WELDMENT 3-1/2"	2
16	346SL	LOCK HITCH PIN	4
17	3-829-010331	TUBE INSTALLATION ADJ STOP	2

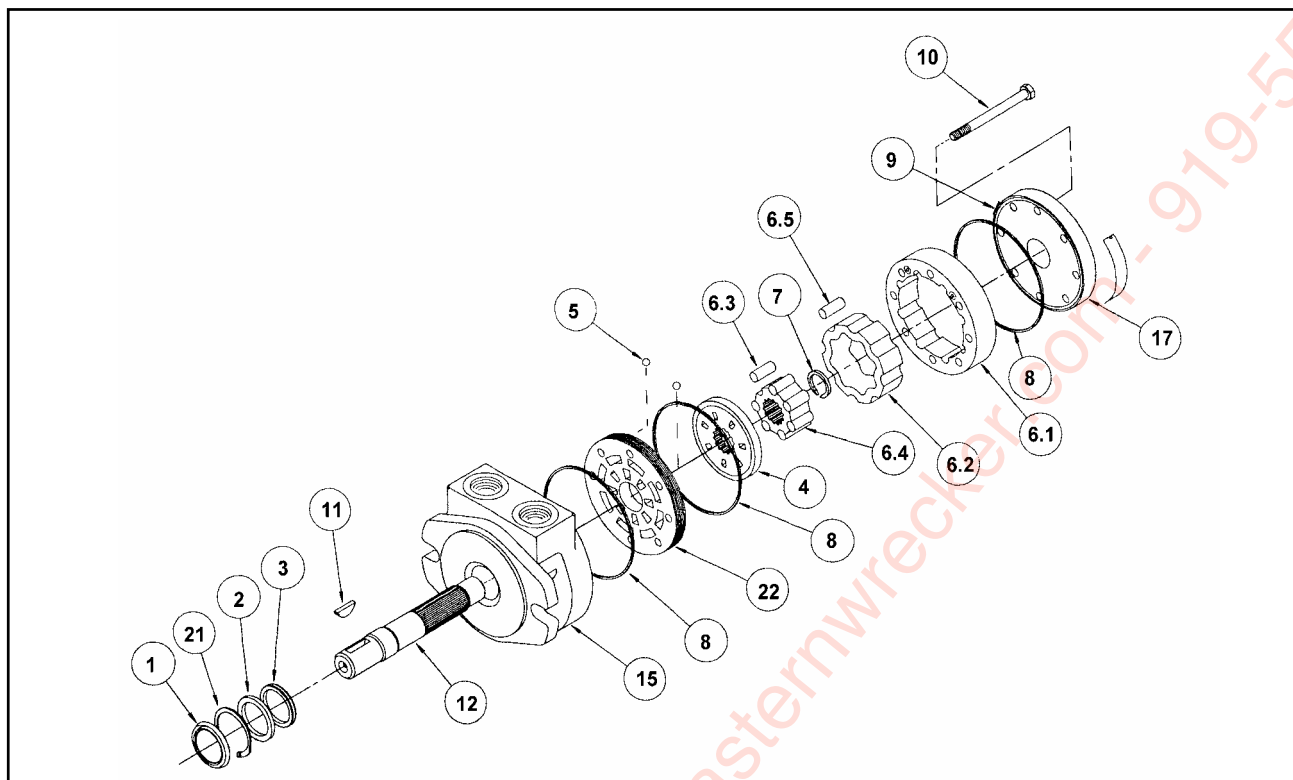


Figure 1-38 Winch Motor Assembly

WINCH MOTOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010007	MOTOR HYD. (FOR 20K WINCH)	1
	3-481-010006	MOTOR HYD (FOR 12K WINCH)	1
1	2183	SEAL DUST	1
2	2177	BACK-UP RING	1
3	2175	SEAL, LIP	1
4	1644	ROTARY VALVE	1
5	1021	CHECK VALVE BALL	2
6	1004-6	IGR, ASSY (FOR 20K WINCH)	1
	1004-3	IGA, ASSY (FOR 12K WINCH)	1
7	1296	SNAP RING	1
8	1046	SQUARE RING SEAL	3
9	1019-4	PLUG, VENT W/O-RING 7/16-20	1
10	1014-4	BOLTS, HEX 5/16-24 (FOR 20K WINCH)	8
	1114-5	BOLTS, HEX 5/16-24 (FOR 12K WINCH)	8
11	1655	KEY, WOODRUFF	1
12	2265-6	SHAFT, 1.25" 14 TOOTH SPLINE (FOR 20K WINCH)	1
	2109-3	SHAFT, 1" KEYED (FOR 12K WINCH)	1
15	M110AB-4	BODY/BEARING ASSY (FOR 20K WINCH)	1
	PA-2328-2	BODY/BEARING ASSY (FOR 12K WINCH)	1
17	M110C-1	COVER/BEARING ASSY	1
21	2180	SNAP RING, SHAFT	1
22	1865	COMMUNTATOR PLATE	1
23	2263	SEAL KIT, BODY	1
	2480	SEAL KIT, BODY, VITON	1

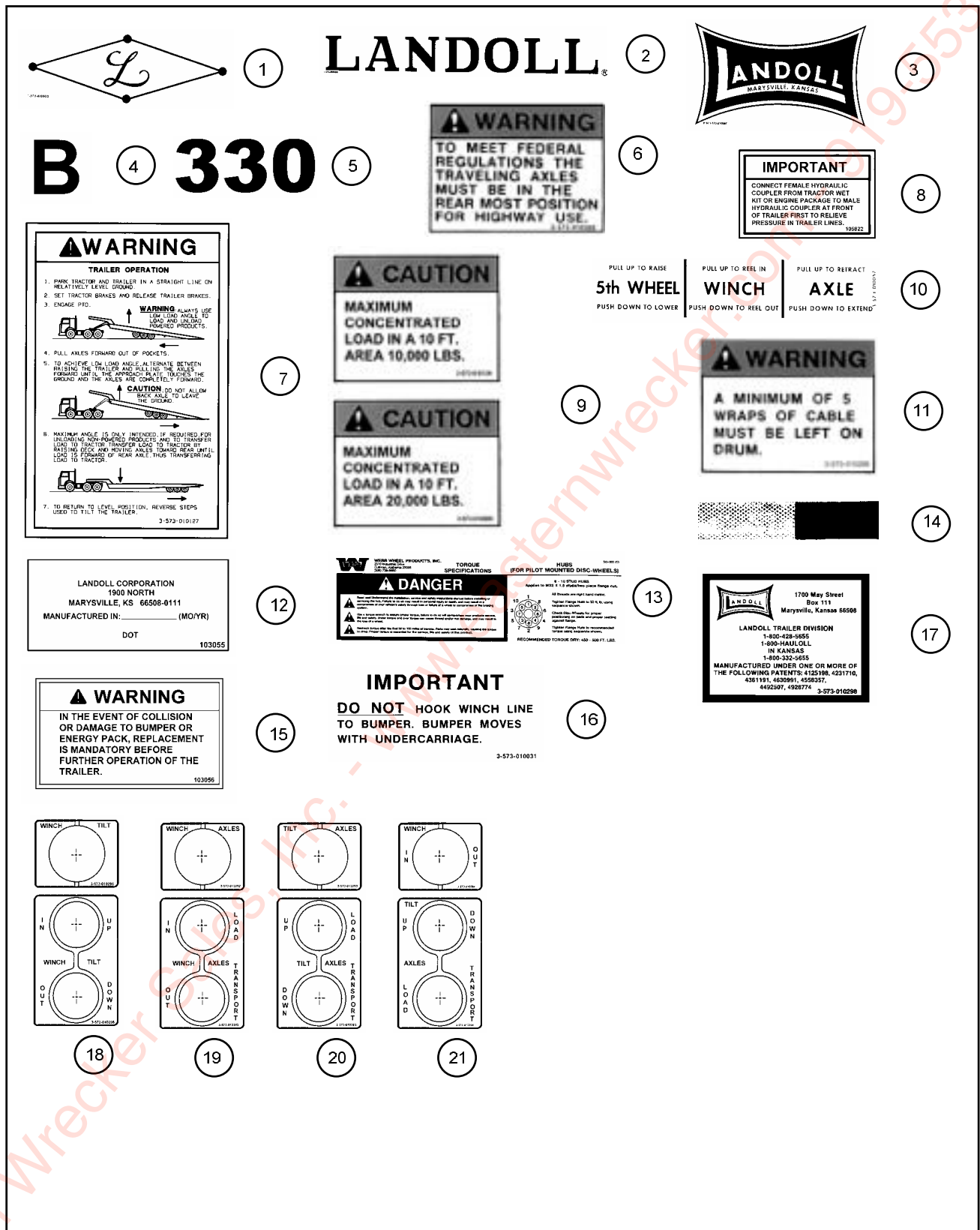


Figure 1-39 Decals

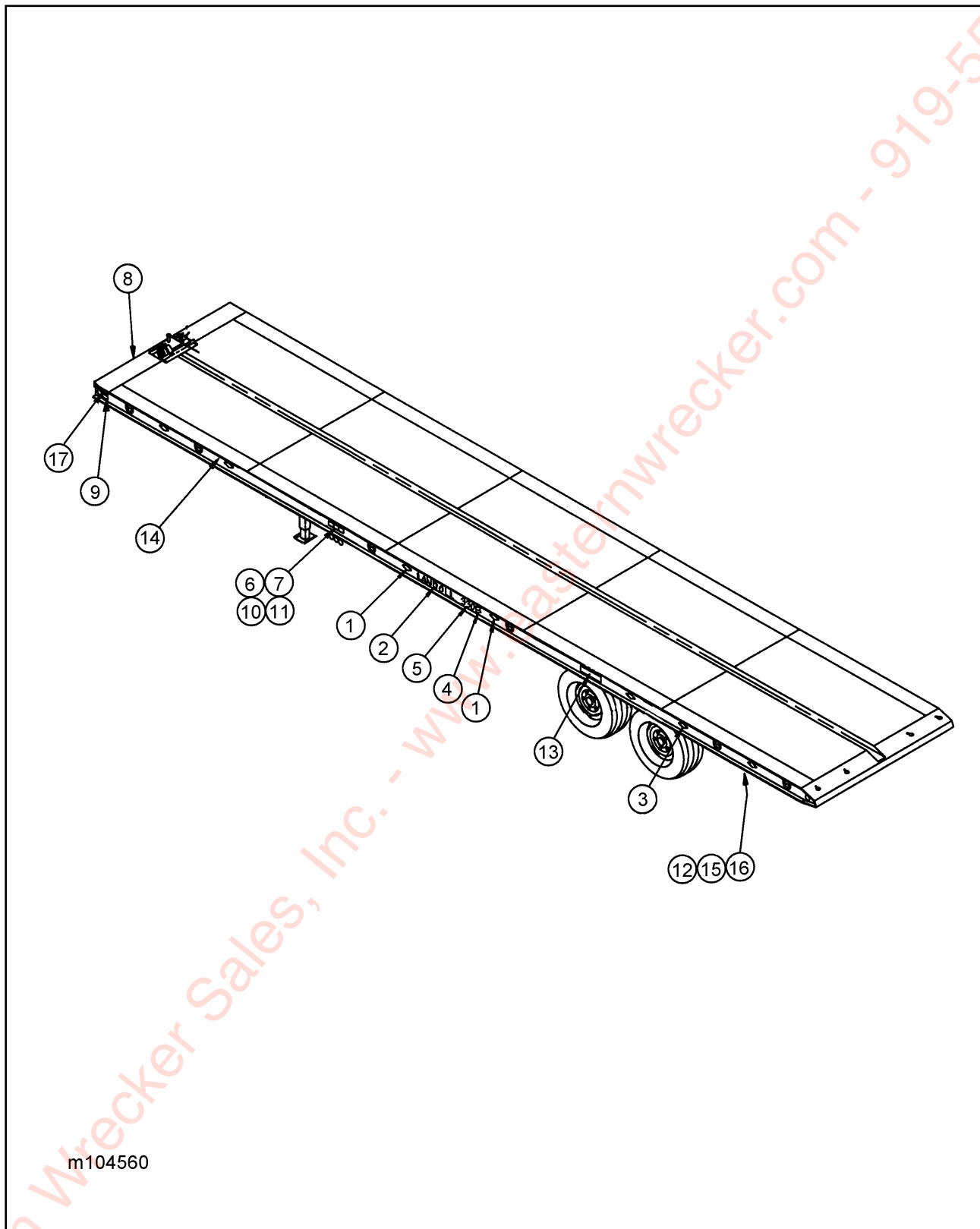


Figure 1-40 Decal Placement

DECAL PLACEMENT

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-573-010479	DECAL, L WHITE	8
	1-573-010475	DECAL, L BLACK	8
2	1-573-010481	DECAL, LANDOLL WHITE	4
	1-573-010477	DECAL, LANDOLL BLACK	4
3	1-573-010017	DECAL, LANDOLL WHITE	4
	1-573-010007	DECAL, LANDOLL BLACK	4
4	114569	DECAL, "B" BLACK	4
	114568	DECAL, "B" WHITE	4
5	113853	DECAL, 330 BLACK DC 2-1/2"	2
	113853	DECAL, 330 WHITE DC 2-1/2"	2
6	3-573-010300	DECAL, CAUTION	1
7	3-573-010127	DECAL, OPERATION	1
8	105822	DECAL, HYD COUPLER	1
9	3-573-010134	DECAL, CONC LOAD (SINGLE AXLE)	2
	3-573-010086	DECAL, CONC LOAD (TANDEM AXLE)	2
10	3-573-010057	DECAL, INSTRUCTION	1
11	3-573-010299	DECAL, WARNING WINCH	1
12	103055	DECAL, ENERGY BUMPER CERT.	1
13	3-573-010210	DECAL, TORQUE SPEC 8-10 STUD HUB	1
14	3-573-010377	DECAL, REFLEXITE TAPE RED/WHITE	48'
15	103056	DECAL, ENERGY BUMPER WARNING	1
16	3-573-010031	DECAL, BUMPER	1
17	3-573-010298	DECAL, PATENT TRAILERS AND TOLL FREE NO.	2
18	3-573-010296	DECAL, WINCH TILT	REF
19	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	REF
20	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	REF
21	3-573-010394	DECAL, TILT/WINCH/UNDERCARRIAGE	REF
22	3-573-010378	DECAL, 2 X10 REFLEXITE WHITE (NOT SHOWN)	2

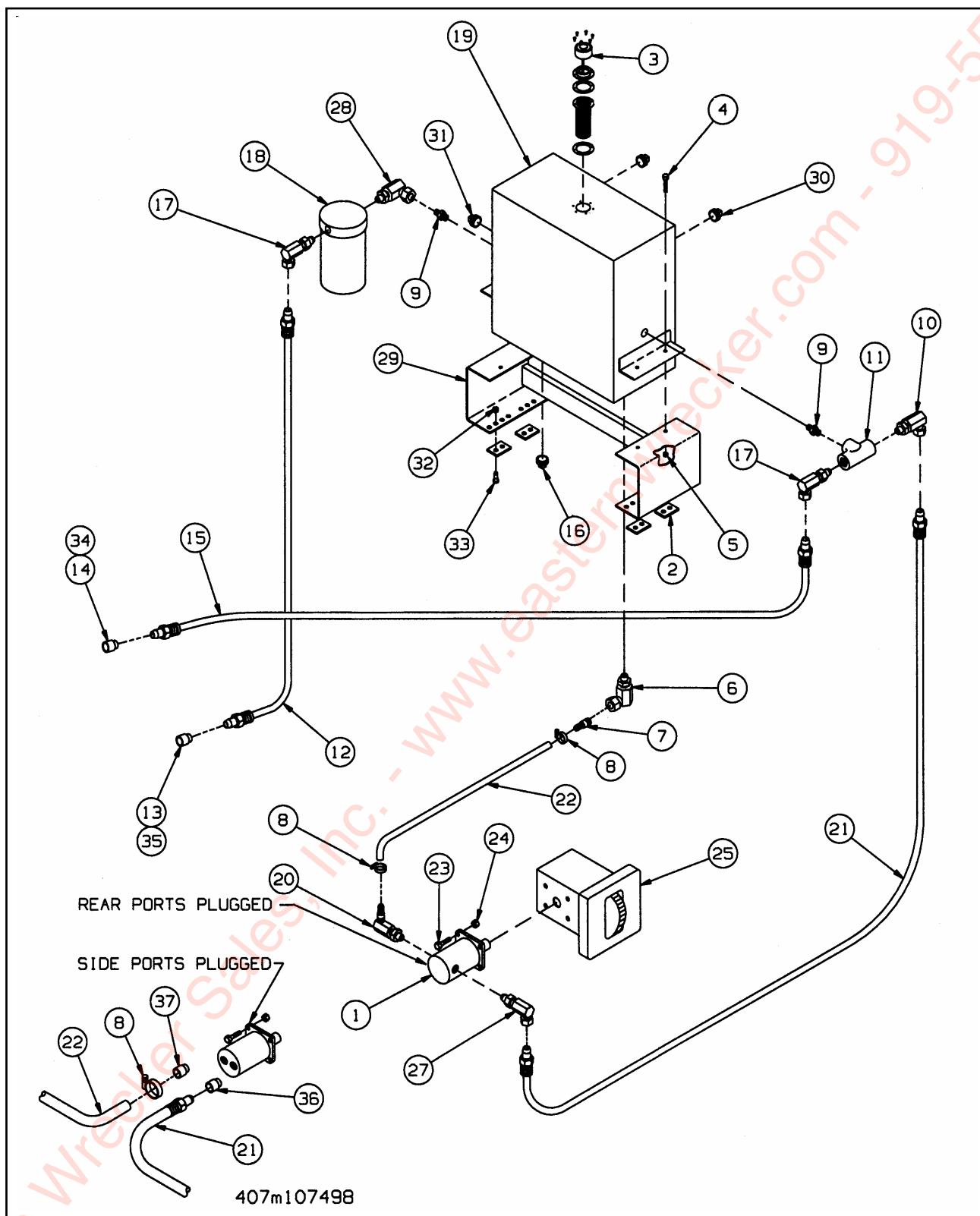


Figure 1-41 Hydraulic Wet Kit Assembly (Option)

HYDRAULIC WET KIT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	3-591-010001	HYDRAULIC GEAR PUMP (SEE PAGE 1-72)	1
2	3-120-010461	BRACKET, HYD TANK MOUNT SUPPORT	4
3	3-162-010001	FILLER BREATHER STRAINER ASSEMBLY	1
4	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16X1-1/4 GR5	4
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
6	1-1/4ST ELL	BLACK PIPE ELBOW 90 ST	1
7	3-561-010001	HOSE BARB 1-1/4	1
8	6828	IDEAL HOSE CLAMP	2
9	C3069X12	NIPPLE HEX	2
10	2024-12-8S	ADAPTER 90	1
11	125130	RD12D HYD BY PASS SRDD	1
12	106760	HOSE 3/4 X 164	1
13	105479	COUPLER FLAT FACE MALE NOSE	1
14	105480	COUPLER FLAT FACE FEMALE BODY	1
15	106759	HOSE ASSEMBLY 1/2 X 164	1
16	1-560-010002-07	PLUG, BLACK PIPE 1-1/4 SQ HEAD	1
17	2024-12-12S	ADAPTER 90	2
18	1-295-010001	FILTER, RETURN	1
	1-295-010002	FILTER ELEMENT	1
19	3-786-010043	TANK, HYDRAULIC	1
20	1-007-010006	ELBOW 90, 1-5/16 O-RING 1-1/4 HOSE	1
21	1-397-010301100	HOSE ASSEMBLY 1/2 X 100	1
22	3-399-010001	HOSE 1-1/4 X 4 - 0" SUCTION	8'
23	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
24	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
25	PTO	POWER TAKE OFF	*1,—
27	2062-16-8S	ADAPTER, 90	1
28	2047-12-12S	ELBOW 90 SWIVEL	1
29	3-482-010503	TANK MOUNT	1
30	1-560-010002-05	PIPE PLUG 3/4	2
31	1-560-010002-04	PIPE PLUG 1/2	1
32	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
33	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	4
34	105482	COUPLER, DUST CAP FEMALE	1
35	105481	COUPLER, DUST CAP MALE	1
36	12-16 070120	ADAPTER	1
37	107513	ADAPTER	1

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

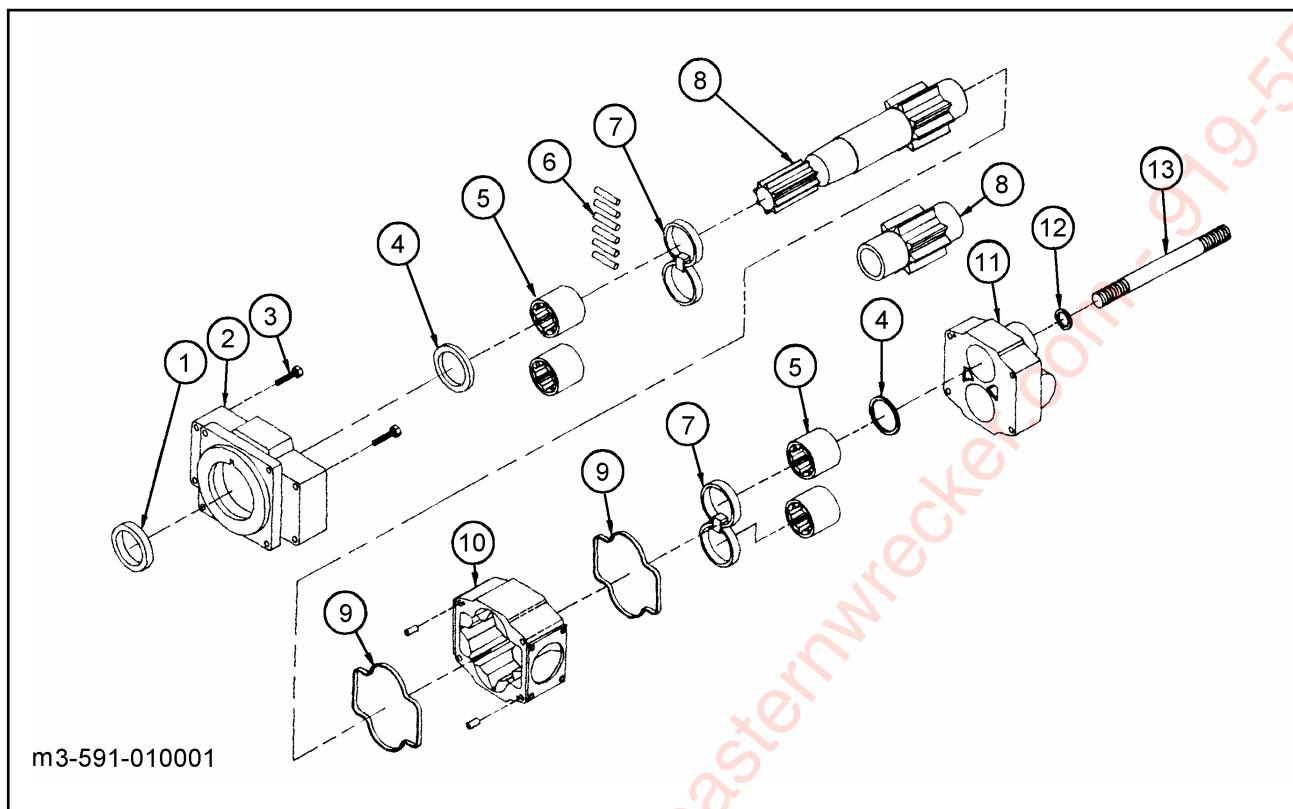


Figure 1-42 Hydraulic Pump, Wet Kit (Option)

HYDRAULIC PUMP, WET KIT (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-591-010001	HYDRAULIC PUMP ASSEMBLY	1
1	X73-37-16	SEAL SHAFT	1
2	EB 1685-3	COVER SHAFT END	1
3	M 1391-K	CHECK	2
4	LB 1669-1	SEAL RING	2
5	Y 1032	BEARING ROLLER	4
6	BA 3026-2	STRIP POCKET SEAL	1
7	AA 1058	PLATE THRUST	2
8	BD 1135M-3-17	GEAR SET SHAFT	1
9	UB 3006-242	GASKET HOUSING	2
10	RA 1688-17-64	HOUSING	1
11	XA 1603	PORT END	1
12	X 144-3	WASHER	1
13	X2-25	STUD	1
14	391-1802-119	SEAL KIT	

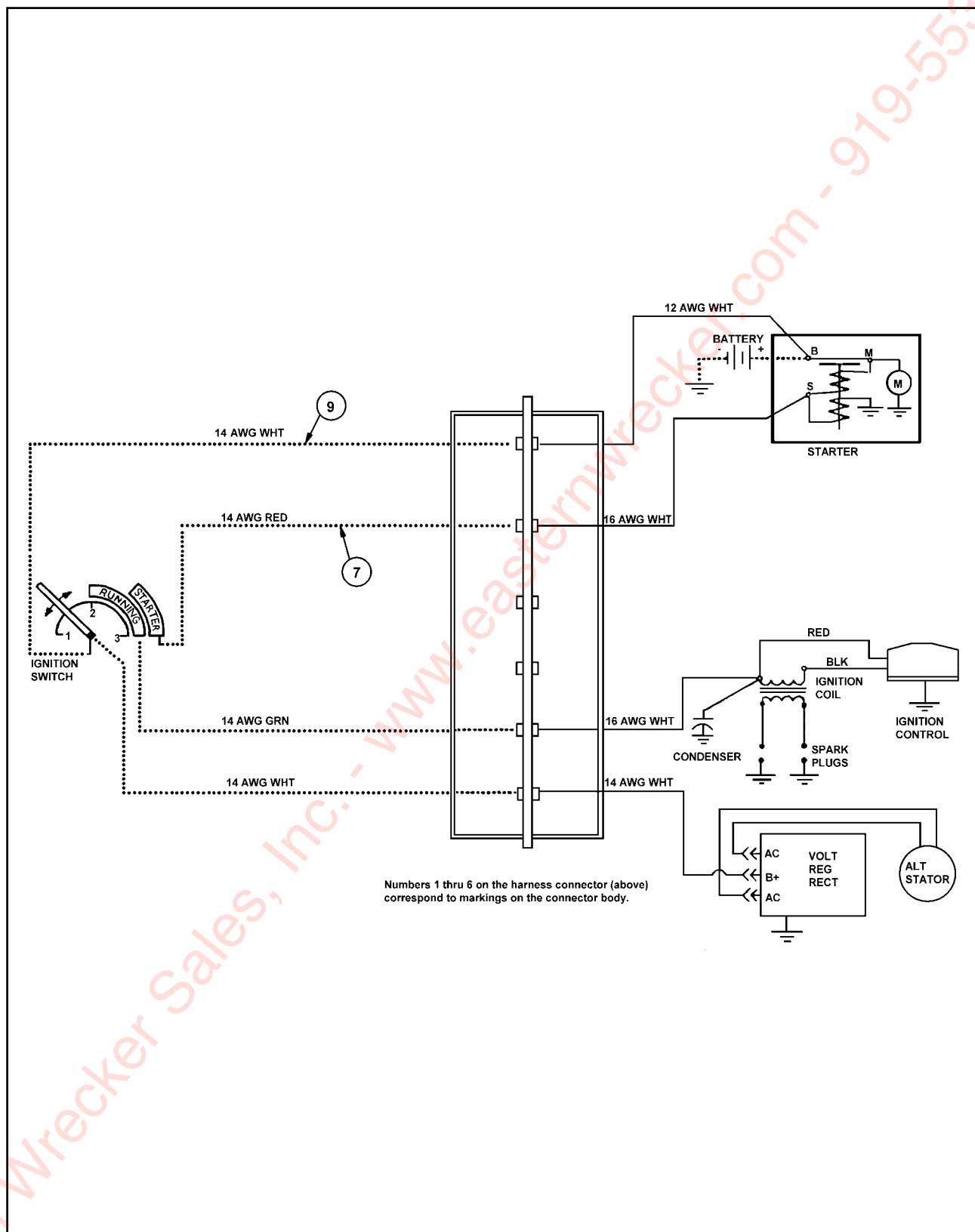


Figure 1-43 Engine Harness Diagram

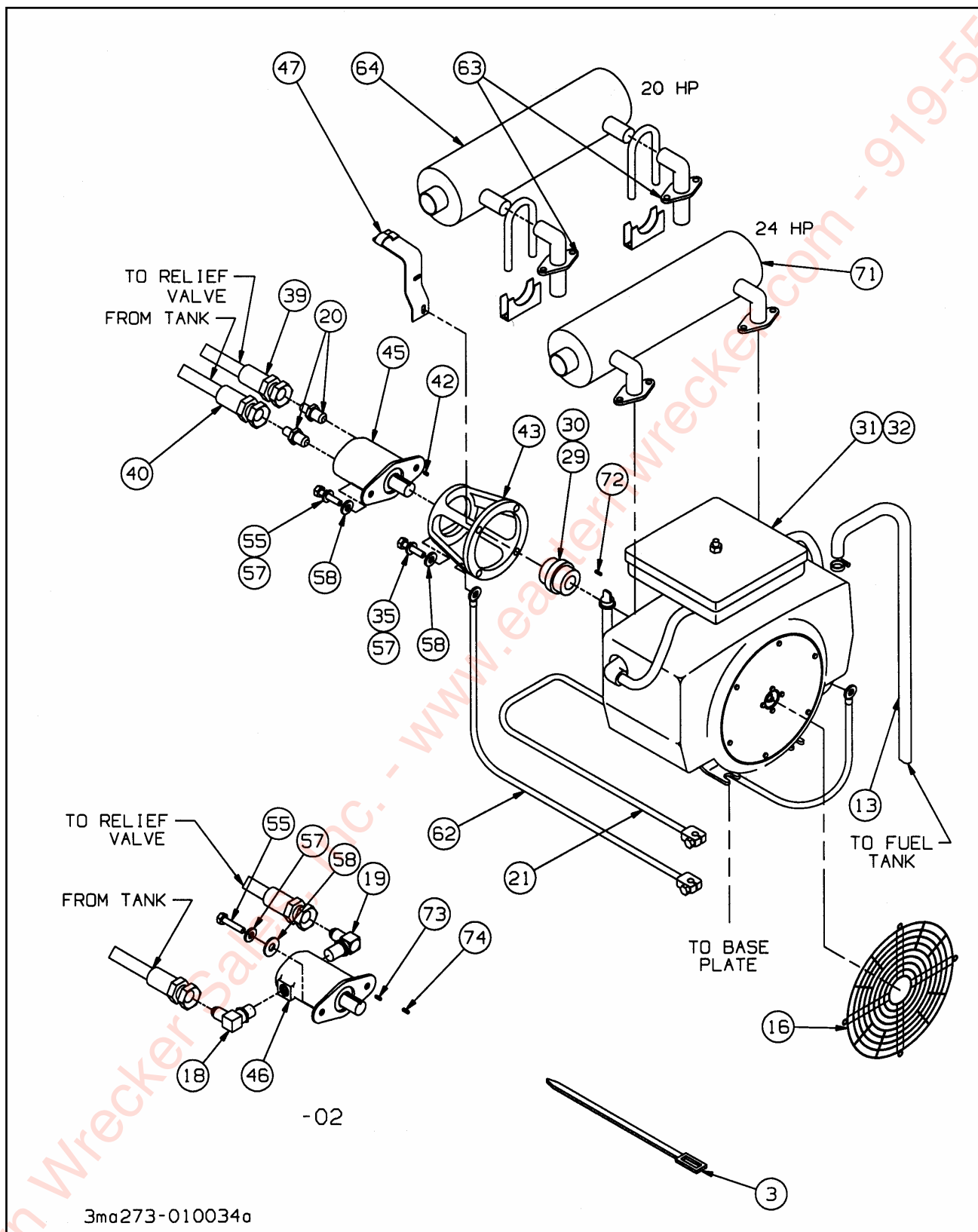


Figure 1-44 Auxiliary Engine Package (1 of 2)

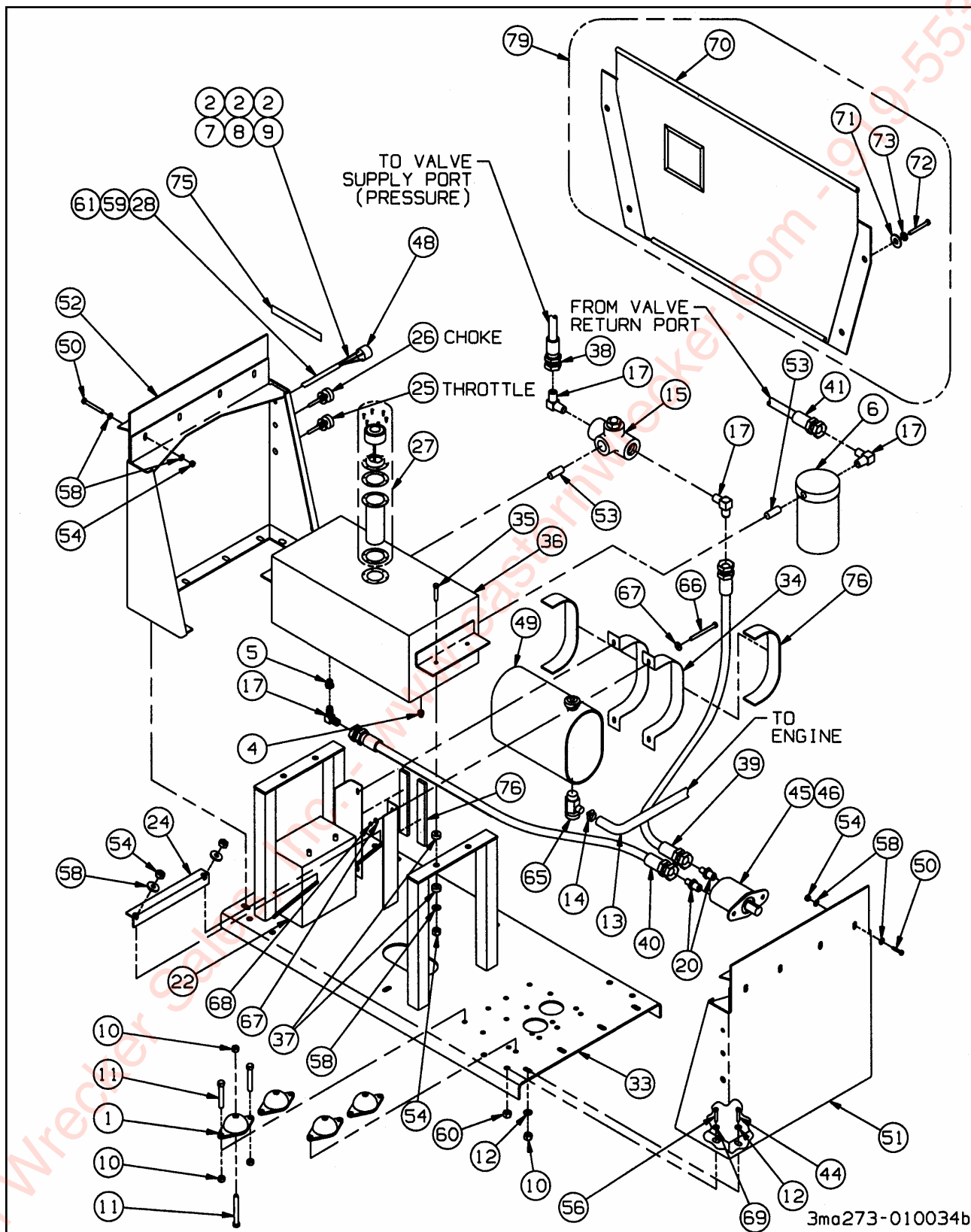


Figure 1-45 Auxiliary Engine Package (2 of 2)

AUXILIARY ENGINE PACKAGE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010034-01	ENGINE DRIVE UNDERSLUNG 330 20HP	
	3-273-010034-02	ENGINE DRIVE UNDERSLUNG 330 24HP	
1	CA-1595	MACHINE MOUNT 40 DUROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	A/R
4	1-560-010002-07	PLUG PIPE	1
5	1-1/4 X 3/4 BUSH	BLACK PIPE BUSHING 1-1/4 X 3/4	1
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-879-010004072	WIRE RED 14AWG 6FT	1
8	1-879-010006072	WIRE GREEN 14AWG 6FT	1
9	1-879-010010072	WIRE WHITE 14AWG 6FT	1
10	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	24
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	12
12	1-861-010032-15	WASHER FLAT 1/2	24
13	1-316-010013-1	HOSE PRESS FUEL 1/4	1
14	105-0105	CLAMP HOSE IDEAL 6203	2
15	125130	RD12D HYDRAULIC BY PASS SRDD	1
16	134-4560	GUARD ONAN	1
17	2024-12-12S	ADAPTER 90	4
18	2062-16-12S	ADAPTER 90	*0,1
19	2062-12-12S	ADAPTER 90	*0,1
20	2021-16-12S	ADAPTER PIPE TO TUBE	*2,0
21	239-8113-40	CABLE ASSEMBLY BATTERY (NEG) 2AWG	1
22	2481X	BATTERY 12 VOLT	1
24	3-120-010124	BATTERY CLAMP BRACKET	1
25	3-155-010012	CABLE THROTTLE	1
26	3-155-010025	CHOKE CABLE	1
27	3-162-010001	FILLER BREATHER STRAINER ASSY	1
28	3-201-010002072	CONDUIT PLASTIC FLEX	1
29	3-220-010003	FLEXIBLE COUPLING	*1,0
30	3-220-010002	FLEXIBLE COUPLING	*0,1
31	3-273-010006	ENGINE 20HP ONAN	*1,0
32	3-273-010013	ENGINE 24HP ONAN	*0,1
33	3-482-010495	MOUNT WELDMENT 330 POWER CTR	1
34	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	1-654-010051-08	SCREW HEX CAP 3/8-16 X 1-3/4 GR5	4
36	3-786-010005	HYDRAULIC TANK 5TH WHEEL	1
37	805-2	BUSHING STEP	8
38	1-397-010304056	HOSE ASSEMBLY 3/4	1
39	1-397-010304032	HOSE ASSEMBLY 3/4	1
40	1-397-010304022	HOSE ASSEMBLY 3/4	1
41	1-397-010304064	HOSE ASSEMBLY 3/4	1
42	3-427-010003	KEY WOODRUFF 317/350	*1,0
43	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
44	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13X1-1/4 GR5	12
45	3-591-010005	PUMP HYDRAULIC GEAR 20HP	*1,0
46	3-591-010003	PUMP HYDRAULIC GEAR 24HP	*0,1
47	3-482-010360	MOUNT CHOKE CABLE WLDMT	1
48	3-765-010005	IGNITION SWITCH	1

AUXILIARY ENGINE PACKAGE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
49	3-783-010013P	TANK FUEL 3 GAL	1
50	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
51	3-482-010566	MOUNT WELDMENT FRONT	1
52	3-482-010565	MOUNT WELDMENT REAR	1
53	3/4NIPPLE	NIPPLE ALL THREAD 3/4	2
54	1-510-010001	NUT FLANGE LOCK 3/8-16	14
55	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	6
56	1-654-010059-13	SCREW HEX HEAD CAP 5/8-11 X 4 GR5	4
57	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
58	1-861-010032-11	WASHER FLAT 3/8	30
59	3-272-010021	ELECTRICAL BUTT SPLICE	2
60	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
61	3-272-010022	ELECTRICAL BUTT SPLICE	1
62	514-9045-40	CABLE ASSEMBLY BATTERY (POS)	1
63	541-0203	EXHAUST ADAPTER KIT	*1,0
64	541-0379	MUFFLER 20HP ONAN	*1,0
65	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	1-654-010049-09	SCREW HEX HEAD CAP 5/16-18 X 2 GR5	4
67	1-861-010032-09	WASHER FLAT 5/16	8
68	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	4
69	1-861-010032-19	WASHER FLAT 5/8	4
70	3-348-010045	GUARD WELDMENT 330 U/S SIDE PANEL	2
71	541-0316	MUFFLER 24 HP	*0,1
72	110-4338	SQUARE KEY 1/4 X 2	*1,0
73	110-4334	KEY 3/16 X 1-1/4	*0,1
74	110-4348	KEY 3/8 X 2	*0,1
76	10030	SEL BAR STOCK - NEOPRENE SPONGE	60"

* THE FIRST QUANTITY LISTED IS FOR P/N 3-273-010034-01; SECOND QUANTITY LISTED IS FOR P/N 3-273-010034-02.

NOTE: SEE FIGURE 1-43 FOR ENGINE HARNESS DIAGRAM.

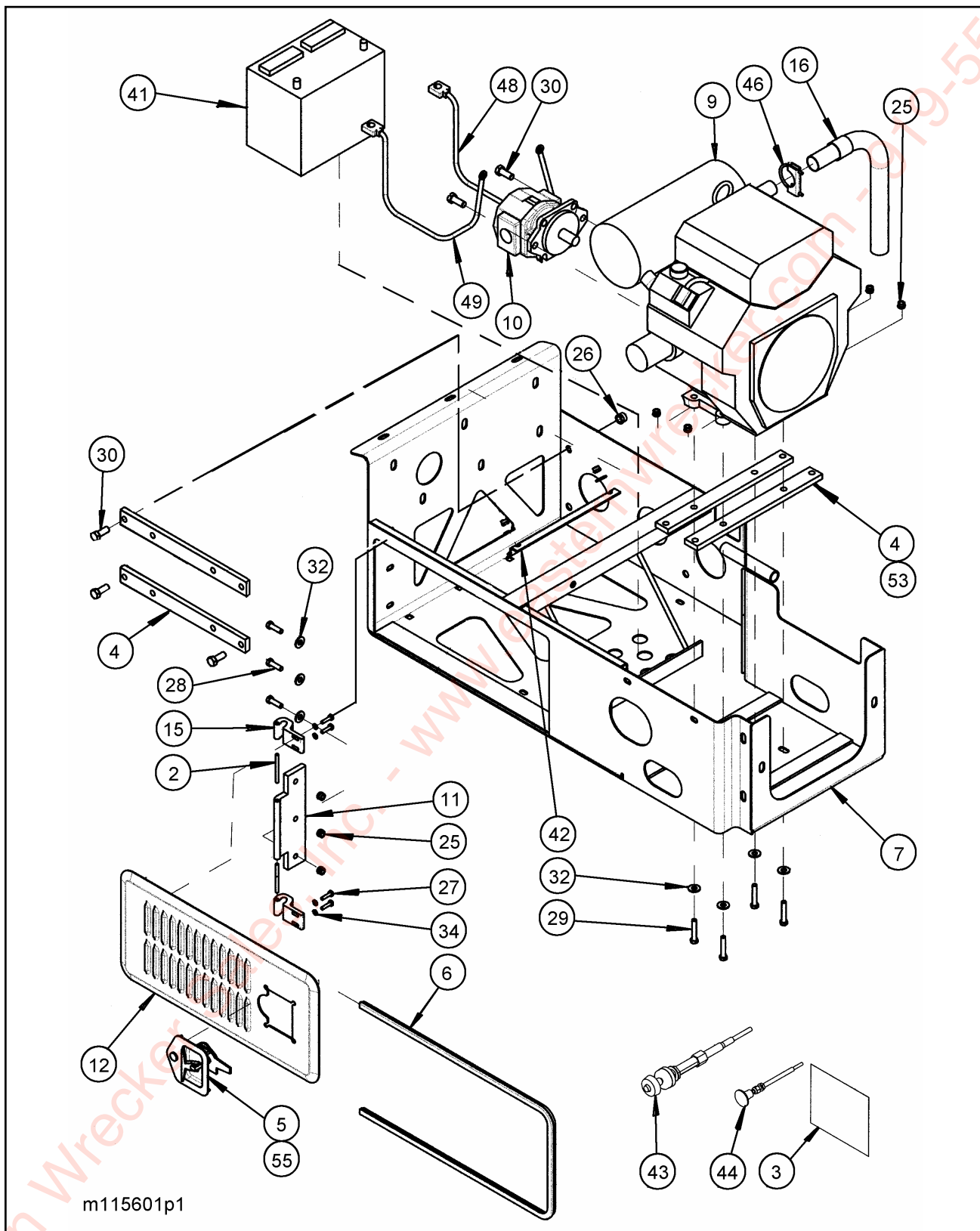


Figure 1-46 Engine Package Front Mount (1 of 2)

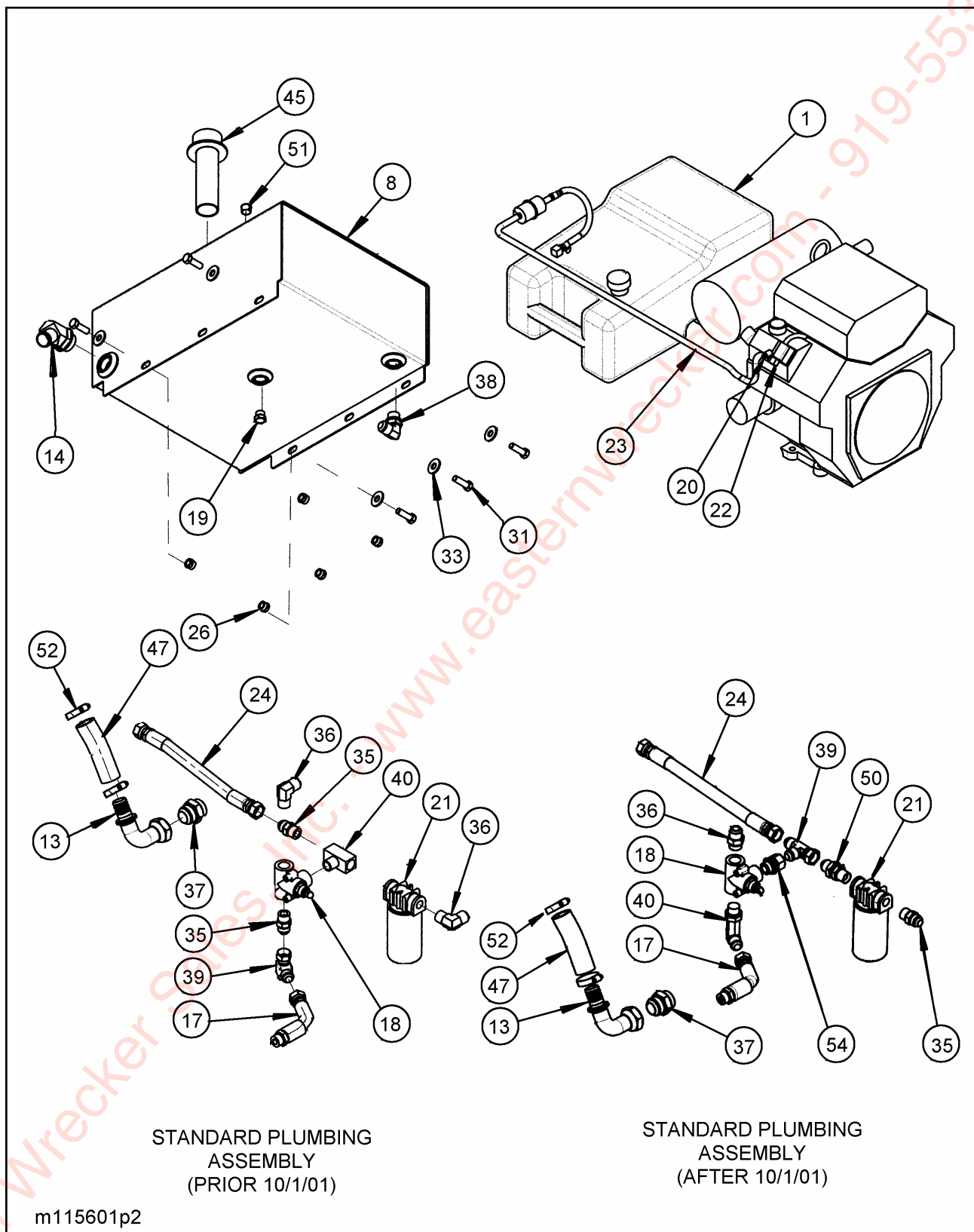


Figure 1-47 Engine Package Front Mount (2 of 2)

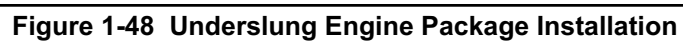
25HP GAS ENGINE PACKAGE (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	115601	25 HP GAS ENGINE PACKAGE	
1	104699	TANK, FUEL PLASTIC	1
2	108601	PIN, DOOR HINGE	2
3	113388	DECAL, ENG PKG INSTRUCTIONS	1
4	113856	MOUNT, ENGINE ISOLATOR, KOHLER CH25	*4,2
5	114814	LATCH, FOLDING T LOCKABLE	1
6	114815	SEAL, SPONGE RUBBER TRIM	1
7	114968	MOUNT WELDMENT, ENG PKG 25 HP(PRIOR 10/1/01)	1
	120654	MOUNT WELDMENT, ENG PKG 25 HP(AFTER 10/1/01)	1
8	120662	HYD TANK WELDMENT	1
9	115586	ENGINE KOHLER 25 HP PUMP MOUNT	1
10	115888	PUMP, HYDRAULIC	1
11	116326	HINGE, BASE MOUNT	1
12	116328	MOUNT, DOOR WELDMENT	1
13	116330	FITTING, 90	1
14	117873	FITTING	1
15	119206	HINGE, DOOR	2
16	119445	EXHAUST EXT WELDMENT	1
17	119577	HOSE	1
18	125130	VALVE, HYDR PRESSURE RELIEF(PRIOR 10/1/01)	1
	120661	VALVE, HYDR PRESSURE RELIEF(AFTER 10/1/01)	1
19	900598-12S	PLUG, O-RING	1
20	1-181-010046-1	CLAMP, HOSE	2
21	1-295-010001	RETURN LINE FILTER	1
22	1-297-010034-01	FITTING, BR 90 BARB	1
23	1-316-010013	HOSE, 1/4 LOW PRESSURE FUEL LINE	1
24	1-397-010304016	HOSE ASSEMBLY 3/4 X 16 (PRIOR 10/1/01)	1
	1-397-010304018	HOSE ASSEMBLY 3/4 X 18 (AFTER 10/1/01)	1
25	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	9
26	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
27	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	4
28	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
29	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	4
30	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	6
31	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	5
32	1-861-010032-11	WASHER, FLAT 3/8W	9
33	1-861-010032-15	WASHER, FLAT 1/2W	5
34	1-861-010034-09	WASHER, SPLIT LOCK 1/4	4
35	2021-12-12S	ADAPTER	*2,1
36	2024-12-12S	ELBOW, 90 (PRIOR 10/1/01)	2
	202702-12-12S	ADAPTER, STRAIGHT (AFTER 10/1/01)	1
37	202702-20-20S	ADAPTER	1
38	2062-12-12S	ADAPTER, 90	1
39	2071-12-12S	ADAPTER, 90 (PRIOR 10/1/01)	1
	203102-12-12S	ADAPTER, TEE (AFTER 10/1/01)	1
40	2091-12-12S	BRANCH TEE (PRIOR 10/1/01)	1
	206209-12-12S	ADAPTER, 90 (AFTER 10/1/01)	1
41	2481X	BATTERY 12V	1
42	3-120-010124	BATTERY CLAMP BRACKET	1
43	3-155-010012	CABLE, THROTTLE	1

25HP GAS ENGINE PACKAGE (OPTION)

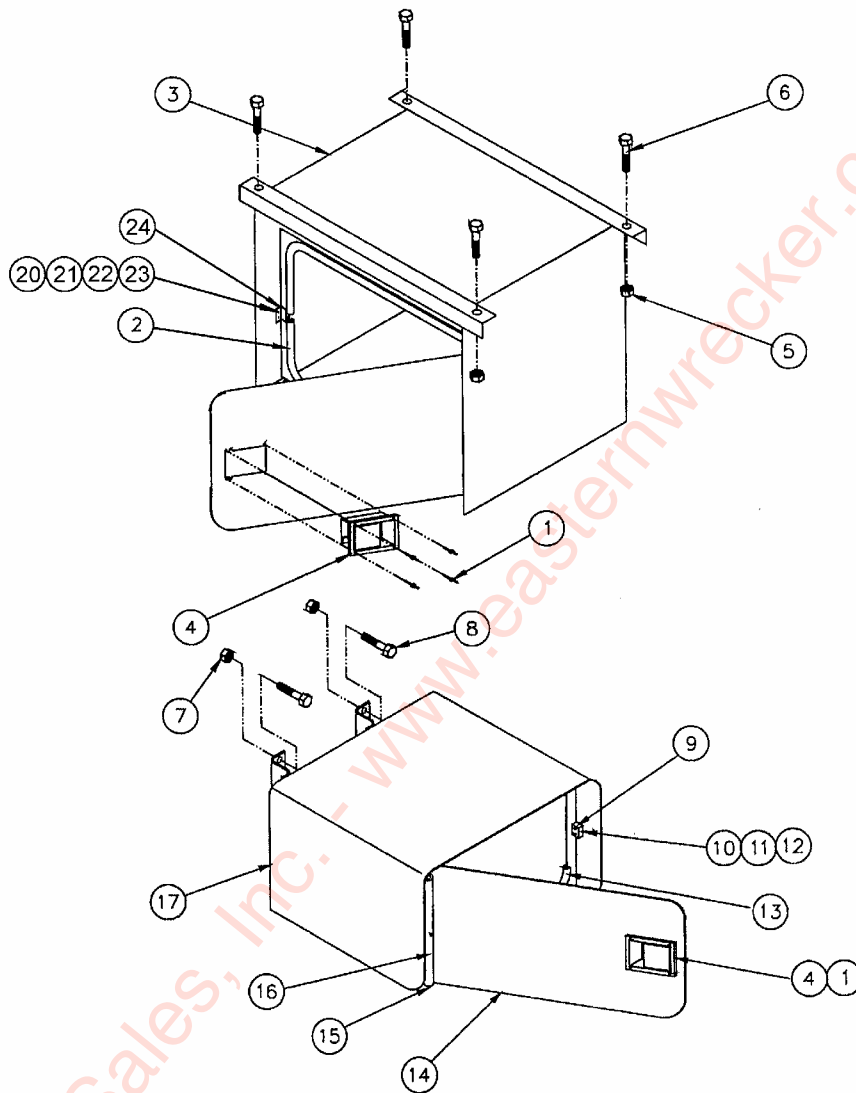
ITEM	PART NO.	DESCRIPTION	QTY.
44	3-155-010025	CABLE, UTILITY CHOKE	1
45	3-162-010001	FILLER-BREATH-STRainer ASSEMBLY	1
46	3-182-010028	CLAMP, MUFFLER	1
47	3-399-010001	HOSE, 1-1/4 SUCTION	1
48	514-9045-26	CABLE ASSEMBLY, BATTERY POSITIVE	1
49	514-9073-18	CABLE ASSEMBLY, BATTERY NEGATIVE	1
50	2240-12-12S	ADAPTER, BULKHEAD	1
51	1-560-010002-04	PLUG, PIPE 1/2	1
52	1-181-010046-7	CLAMP, HOSE	2
53	120569	ISOLATOR, KOHLER 25 HP MOUNT	2
54	120660	ADAPTER	1
55	115877	NUT, HEAVY HEX 1/4-20 GR5	4
57	113544	HARNESS, ENG PKG IGNITION (NOT SHOWN)	1

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



UNDERSLUNG ENGINE PACKAGE INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
	115610	ENGINE PACKAGE INST UNDERSLUNG	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	5
2	1-512-010005-09	NUT, HEX LOCK 1/2-13	11
3	1-512-010005-15	NUT, HEX LOCK 3/4-10	8
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
5	1-654-010051-13	SCREW, HEX HEAD CAP 3/8-16 X 3 GR5	2
6	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	9
7	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	2
8	1-861-010032-11	WASHER, FLAT 3/8	10
9	1-861-010032-15	WASHER, FLAT 1/2	22
10	1-861-010032-21	WASHER, FLAT 3/4	8
11	113359	BRACKET, MOUNTING CROSS MEMBER	2
12	115601	ENGINE PACKAGE 25 HP GAS	1
13	116332	NUT, EXTRUD U 5/16-18	4
14	116334	SHIELD, ENG PACKAGE FRONT	1
15	120437	MOUNT, FRONT RH	1
16	120438	MOUNT, FRONT LH	1
17	120439	ANGLE, REAR	1
18	120635	PLATE, REAR MOUNT	1
19	2-102-010011	U-BOLT	4



b3-115-016

Figure 1-49 Tool Boxes (Option)

TOOL BOXES (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	B3-115-016	TOOL BOX, TOP MOUNTING, 24X30X30 (ITEMS 1-6,18-24)	
	B7-115-003	TOOL BOX BACK MOUNTING LH (ITEMS 1, 4, & 7-18)	
	B7-115-004	TOOL BOX BACK MOUNTING RH (ITEMS 1, 4, & 7-18)	
1	BSL-6-4	RIVET	4
2	514-1000	QUICK-EDGE TRIM	AR
3	3-115-010053	TOOL BOX WELDMENT	1
4	3-443-010010	LATCH	1
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	4
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	4
7	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
8	1/2-13X3 HHCS	SCREW HEX HEAD CAP 1/2-13 X 3 GR5	4
9	3-659-010013-1	SEAL NEOPRENE SPONGE	1
10	7-458-010009	PLATE STRIKER	1
11	110-0253	WASHER FLAT STD 3/16	2
12	118-7962	SCREW PAN HEAD MACHINE SLT	2
13	514-1000-056	TRIM QUICKEDGE CUT LG.	AR
14	3-115-010096	DOOR TOOL BOX	1
15	SCREW#6X3/8	SCREW SELF-TAP SLT RD HD #6 X 3/8	1
16	RPRB59004X11	NYLATRON RD	1
17	3-115-010099	TOOL BOX WLDMT LH	1
	3-115-010097	TOOL BOX WLDMT RH	1
18	101299	KEY CHAIN LANDOLL (NOT SHOWN)	1
19	3-115-010046	TOOL BOX SUPPORT (NOT SHOWN)	4
20	1-512-010007-03	NUT, HEX #10-24	2
21	1-656-010003051	SCREW, RD HD MACH #10-24 X 3/4	2
22	1-861-010032-03	WASHER, FLAT #10	2
23	1-861-010034-07	WASHER, SPLIT LOCK #10	2
24	107463	MOUNT ADJ STRIKER PLATE	1

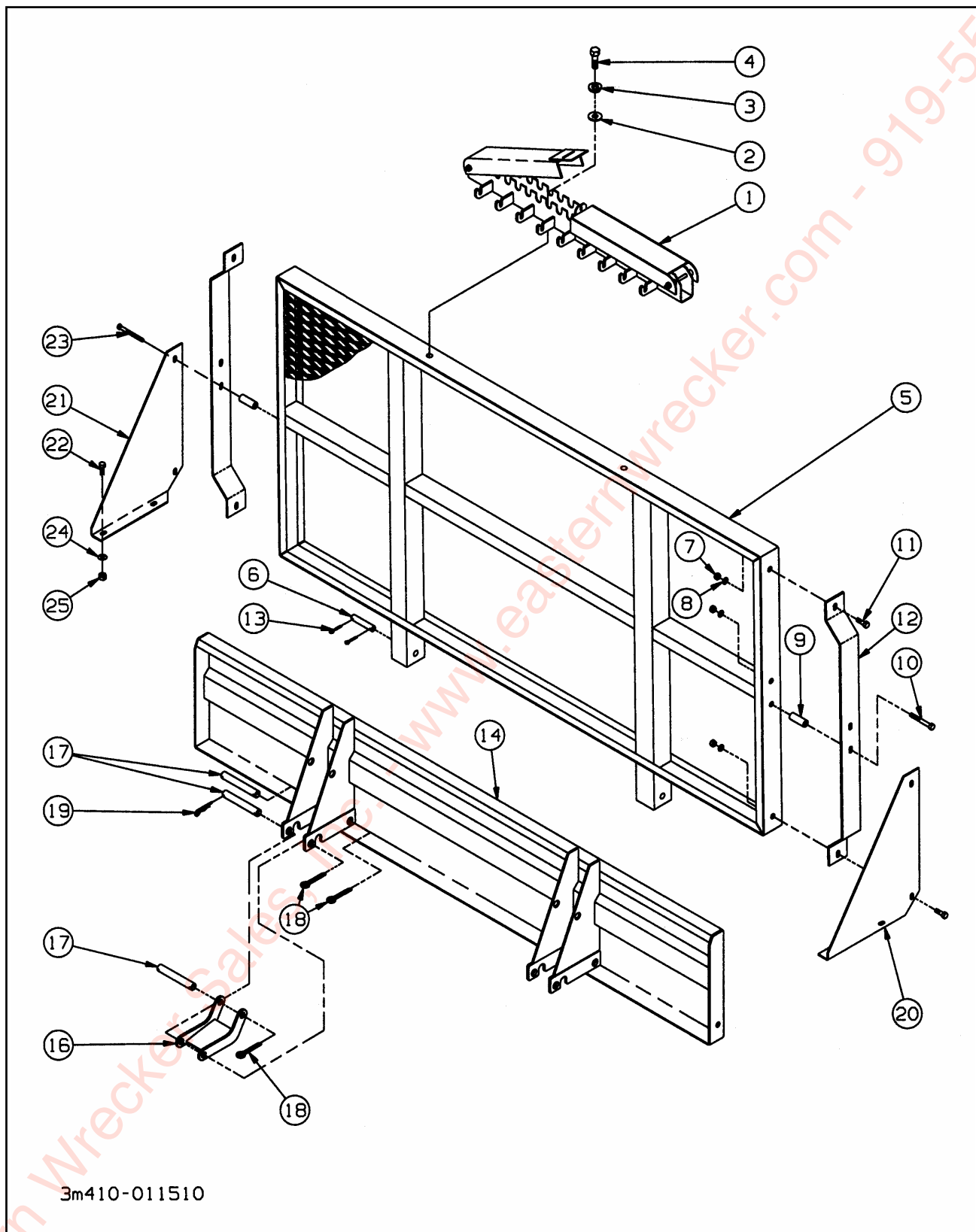


Figure 1-50 Front Extension and Bulkhead Assembly
(Option)

FRONT EXTENSION AND BULKHEAD ASSY(OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	B7-141-003	BULKHEAD CHAIN BACK INSTALLATION (ITEMS 1-4)	
	3-141-010121	BULKHEAD INSTALLATION (ITEMS 5-13)	
	3-141-010123	BULKHEAD INSTALLATION 2 POSITION (ITEMS 14-19)	
	3-117-010071-1	BRACE INST. STABILIZING 48' BULKHEAD (ITEMS 20-25)	
1	3-141-010008	CHAIN HANGER LOCKING CHANNEL WELDMENT	1
2	1-861-010032-11	WASHER, FLAT 3/8	1
3	1-861-010034-11	WASHER, SPLIT LOCK 3/8	1
4	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	2
5	3-141-010155	BULKHEAD WELDMENT 48 X 96 (96)	1
	3-141-010152	BULKHEAD WELDMENT 16 X 102 (102) (NOT SHOWN)	1
6	6-557-010163	PIN HITCH LEVEL LINK	2
7	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB (102)	6
8	1-861-010032-15	WASHER PLAIN TYPE A 1/2 (102)	6
9	3-711-010025	SPACER (102)	2
10	1-654-010055-13	SCREW HEX HEAD CAP 1/2-13X4 GR5 (102)	2
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5 (102)	4
12	3-054-010101	BAR SIDE BULKHEAD EXTENSION (102)	2
13	1-557-010362-63	COTTER PIN 1/4X2	4
14	3-141-010118	BULKHEAD WELDMENT 16 X 96	1
	3-141-010119	BULKHEAD WELDMENT 16 X 102	1
	3-141-010151	BULKHEAD WELDMENT 16/24 X 96	1
	3-141-010147	BULKHEAD WELDMENT 16/24 X 102	1
16	3-755-010080	SUPPORT WELDMENT BULKHEAD	2
17	3-557-010380	SUPPORT PIN	6
18	1-557-010362-63	COTTER PIN 1/4X2	10
19	1-557-010014	HAIRPIN	2
20	3-117-010069	BRACE LH STABILIZING 48' BULKHEAD	1
21	3-117-010070	BRACE RH STABILIZING 48' BULKHEAD	1
22	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	*8,4
23	1-654-010055-14	SCREW HEX HEAD CAP 1/2-13X4-1/2 GR5	*-,4
24	1-861-010032-15	WASHER FLAT 1/2W	8
25	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	8

* 1ST QUANTITY LISTED IS FOR STABILIZING BRACE INSTALLATION 96" WIDE TRAILER; 2ND QUANTITY LISTED IS FOR STABILIZING BRACE INSTALLATION 102" TRAILER

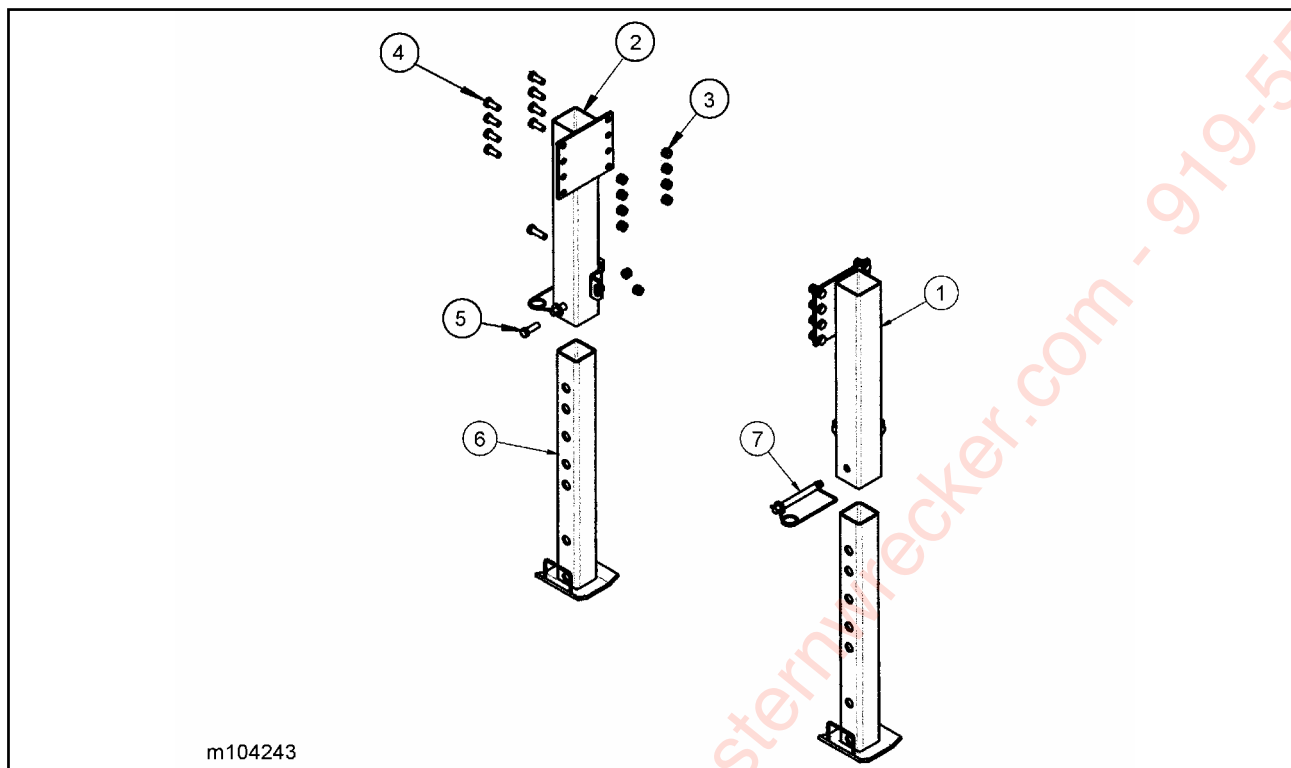


Figure 1-51 Landing Gear Installation Bolt-On

LANDING GEAR INSTALLATION BOLT - ON

ITEM	PART NO.	DESCRIPTION	QTY.
	104243	PARK STAND INST., BOLT-ON	
1	112678	PARK STAND WELDMENT, LH FRONT PIN	1
2	112679	PARK STAND WELDMENT, RH FRONT PIN	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5	16
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WELDMENT	2
7	346SL	LOCK HITCH PIN	2

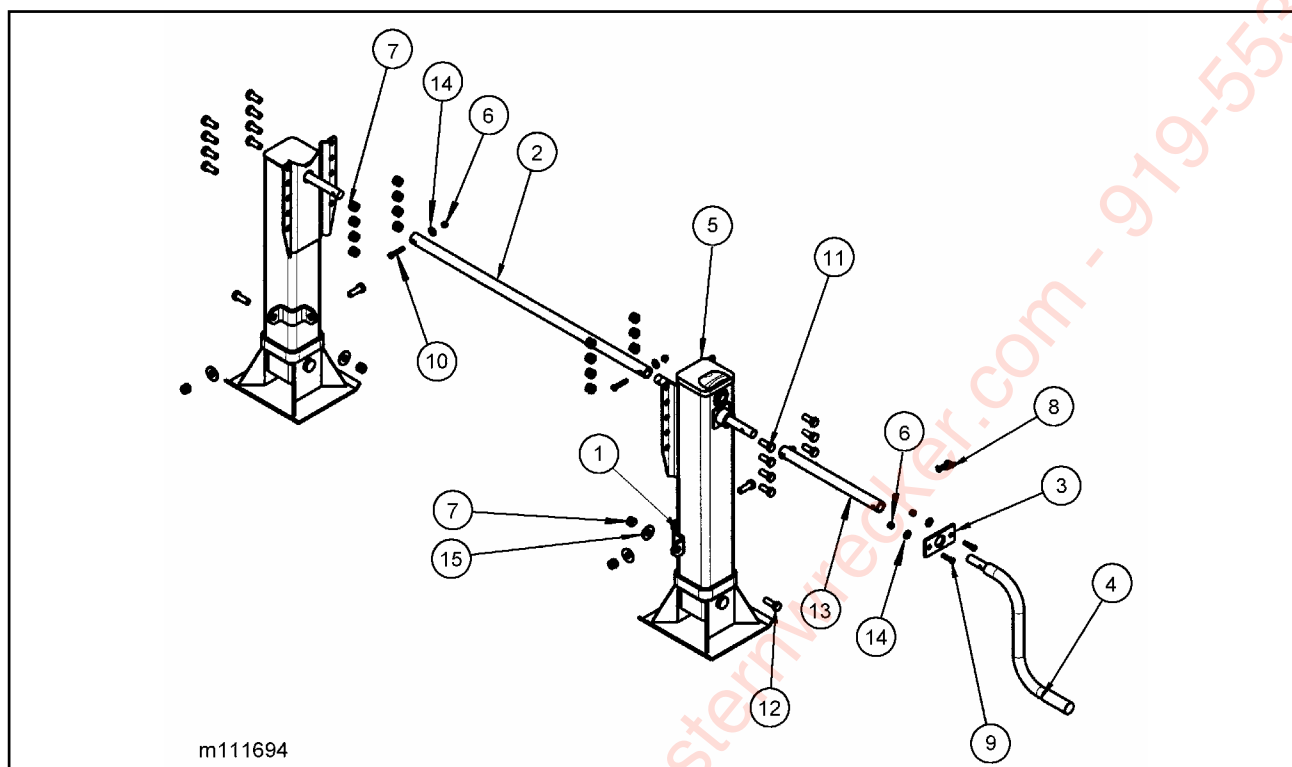


Figure 1-52 Landing Gear Installation

LANDING GEAR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.	
	112573	LANDING GEAR INSTALLATION	*	
	113887	LANDING GEAR INSTALLATION 330 DROP DECK	*	
1	104238	ANCHOR, LOWER BOLT-ON PARK STAND	2	2
2	113883	CROSS-SHAFT LANDING GEAR	1	1
3	111695	GUIDE, HANDLE, JOST GEAR	--	1
4	109710	CRANK	1	--
	109161	HANDLE, CRANK MODIFICATION	--	1
5	109709	2 SPEED LANDING GEAR (SEE PAGE 1-91)	1	1
6	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	5	5
7	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20	20
8	111859	PIN, ROUND LOCKING 5/16 X 1-1/2	1	1
9	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	2	2
10	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	3	3
11	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16	16
12	1-654-010059-04	SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR5	4	4
13	109159	TUBE, ROUND EXTENSION	--	1
14	1-861-010032-11	WASHER, FLAT 3/8W	5	5
15	1-861-010032-19	WASHER, FLAT 5/8W	4	4

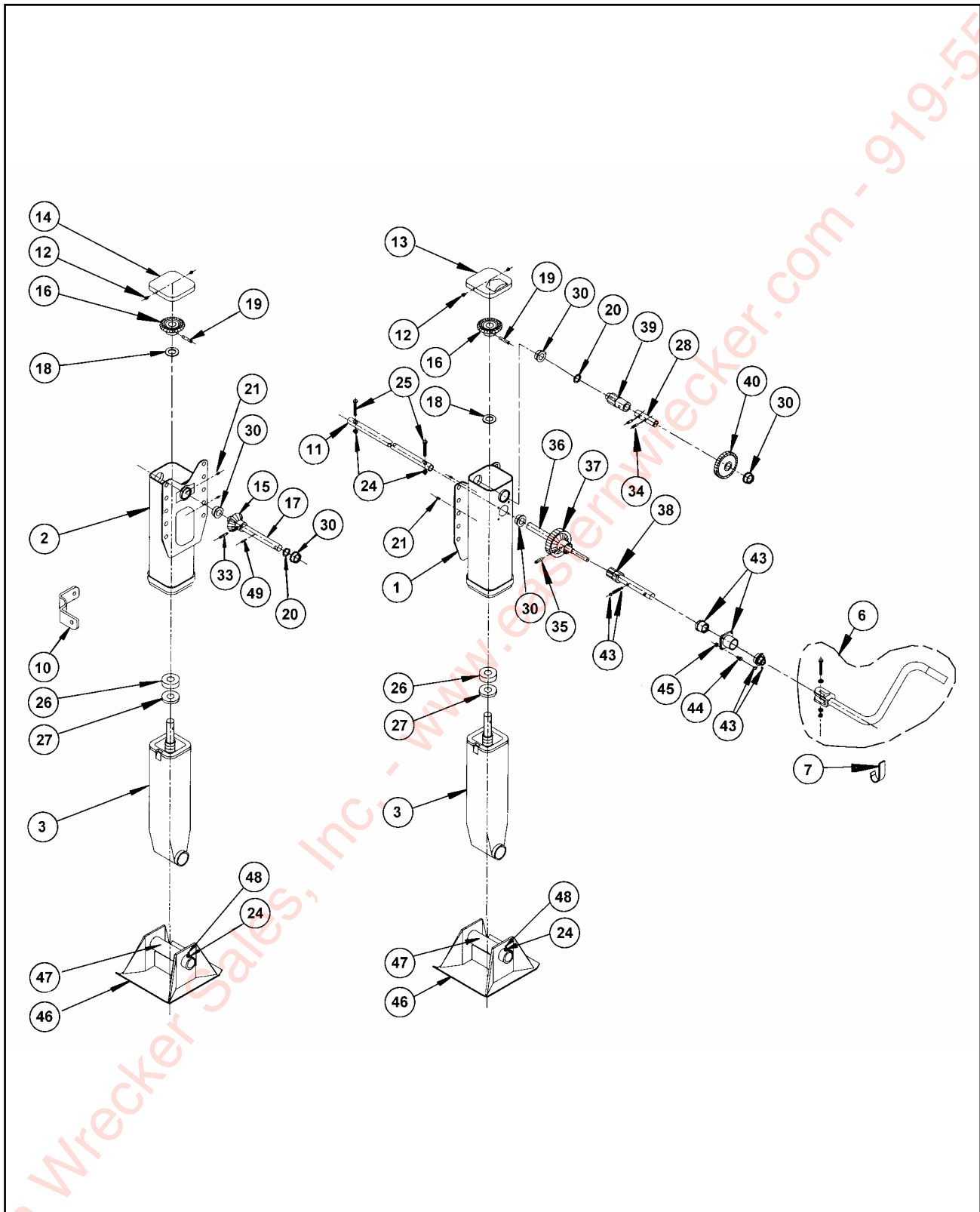


Figure 1-53 Crank Landing Gear

CRANK LANDING GEAR

ITEM	PART NO.	DESCRIPTION	QTY.
	109709	LANDING GEAR INSTALLATION-660	
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	CRANK HANGER	1
10	109712	BRACE LUG - W	2
11	B10066	INTERMEDIATE CROSS SHAFT	1
12	A10059.1	COVER SCREW	4
13	C10217	COVER - 2 SPEED	1
14	C10259	COVER - 1 SPEED	1
15	C10177	PINION GEAR	1
16	C10155	BEVEL GEAR	2
17	B10130	PINION SHAFT - 1 SPEED	1
18	A10102	THRUST WASHER	2
19	A10052.3	GROOVED PIN	2
20	A10218	SPACER WASHER	2
21	A10040	GREASE FITTING	4
23	C10209	STRUT BRACE (NOT SHOWN)	4
24	A10038.7	SELF LOCKING NUT	2
25	A10037.1	CROSS SHAFT BOLT - 3/8 X 2 GR5	2
26	A10033	THRUST BEARING	2
27	A10101	COLLAR	2
28	A10212	OUTPUT SHAFT	1
30	A10255	BUSHING	5
33	A10054.3	ROLL PIN 3/8 X 1-1/2	1
34	A10260.1	SPIRAL PIN	2
35	A10054.7	ROLL PIN - 3/8 X 1-3/4	1
36	B10236	OUTPUT CLUSTER SHAFT	1
37	C10234	OUTPUT CLUSTER GEAR	1
38	C10233	INPUT GEAR SHAFT	1
39	C10078	OUTPUT SPUR GEAR	1
40	C10085	INPUT SPUR GEAR	1
43	B10229.S	SHIFT HOUSING SERVICE KIT	1
44	A10230	SHIFT HOUSING BOLT	4
45	A10038.6	SELF LOCKING NUT	4
46	C10256	SHOE - 10 X 10 X 4-1/2	2
47	B10036	SHOE AXLE	2
48	A10037.3	HEX HEAD BOLT	2
49	A10054.6	ROLL PIN - 1/4 X 1-1/4	1

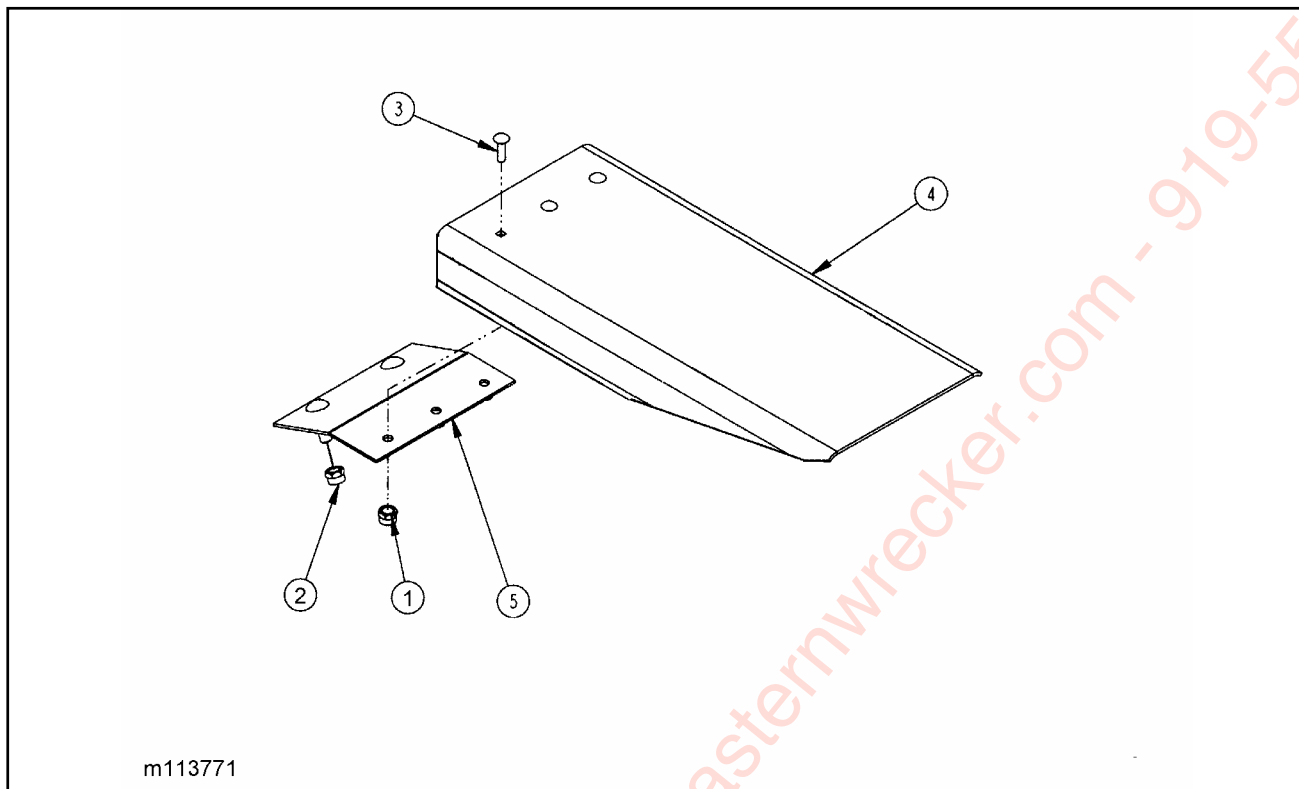


Figure 1-54 Aluminum Ramps (Option)

ALUMINUM RAMPS (OPTION)

ITEM	PART NO.	DESCRIPTION	QTY.
	113771	RAMPS, ALUMINUM	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
2	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
3	1/2-13 x 1-3/4CB	SCREW, RD HEAD SQ. NECK 1/2-13 X 1-3/4	6
4	113713	ALUMINUM RAMP ASSEMBLY	2
5	113714	ANCHOR ASSEMBLY, ALUMINUM RAMP	2

NOTES:

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NUMERICAL INDEX

2

PART	PAGE	PART	PAGE	PART	PAGE
0001-02	26	055-040-07	39	101848	45
0001-02	29	056-017-00	38	101851	45
0001-04	26	056-018-00	39	101855	45
0001-04	29	061-006-00	39	1019-4	66
0001-08	26	0647-01	29	10205R	18
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0053-00	29	081900277	09	102363	32
006-114-00	39	081900295	08	102363	37
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014-058-00	39	100064	06	103055	69
014-065-00	39	10030	77	103056	69
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046-096-00	39	101381	18	103819	43
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104040	21	107756	06	111012	37
104043	21	107917	26	111013	37
104044	21	107917	32	111014	37
104238	89	107917	41	111015	37
104243	88	108601	80	111018	37
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105-0093	01	108802	49	111021	35
105-0105	76	108958	26	111022	37
105408	37	108958	32	111023	37
105479	06	109159	89	11117	53
105479	71	109161	89	11128	53
105480	06	109161	91	11129	53
105480	71	109709	89	11130	54
105481	06	109709	91	11133	53
105481	71	109710	89	111416	47
105482	06	109711	91	11142	53
105482	71	109712	91	11144	53
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106207	13	11026	57	112569	26
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106759	71	110-4348	77	1128	63
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107463	85	110991	26	113374	19
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107498	71	111007	37	113544	81
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11404	56	114815	80	118-7962	85
11405	56	114968	80	119206	80
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11425	56	115713	29	120437	83
11426	57	115713	38	120438	83
11427	56	115727	26	120439	83
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11431	56	115728	29	120654	80
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114548	02	116334	83	123185	39
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114581	19	116704	26	125130	76
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