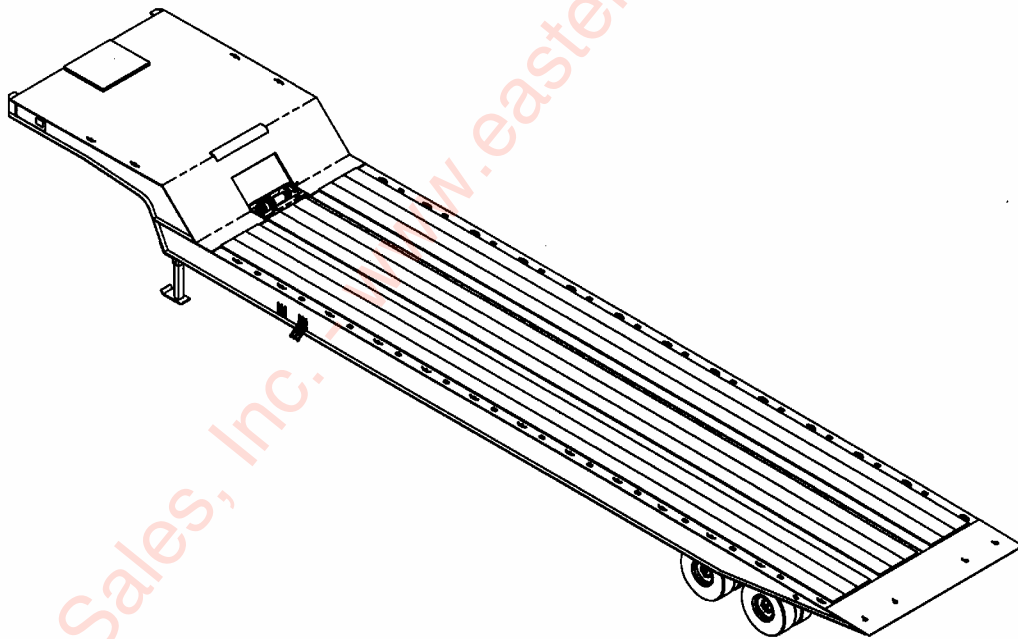




MODEL 317B/318/319 SERIES PARTS LIST



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

ILLUSTRATED PARTS LIST

1

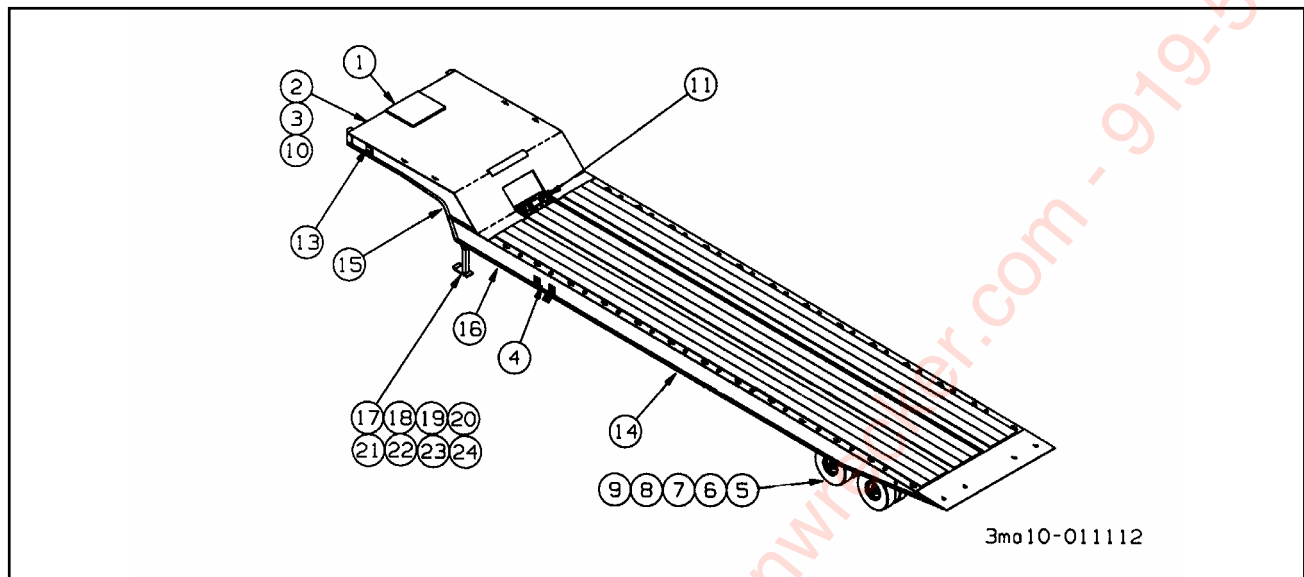


Figure 1-1 General Assembly

GENERAL ASSEMBLY

ITEM	PART NO./PAGE NO.	DESCRIPTION	QTY.
1	1-2 - 1-3	FIFTH WHEEL ASSEMBLY	1
2	1-4 - 1-23	HYDRAULIC ASSEMBLIES	1
3	1-24 - 1-27	ELECTRICAL ASSEMBLIES	1
4	1-28 - 1-35	REMOTE CONTROL	1
5	1-36 - 1-49	UNDERCARRIAGE AND SUSPENSION - AIR RIDE	1
6	1-50 - 1-53	UNDERCARRIAGE AND SUSPENSION - SPRING RIDE	1
7	1-54 - 1-59	AIR BRAKE SYSTEMS	1
8	1-60 - 1-63	AXLE AND BRAKE ASSEMBLIES	1
9	1-64 - 1-69	HUB AND DRUM ASSEMBLIES	AR
10	1-70 - 1-71	MAIN AIR SYSTEM	1
11	1-72 - 1-95	WINCH ASSEMBLIES	1
12	1-96 - 1-109	DOCK LEVELER ASSEMBLIES	1
13	1-110 - 1-111	DOOR LATCH INSTALLATION	1
14	1-112 - 1-114	DECAL INSTALLATION	1
15	1-115 - 1-129	ENGINE DRIVE ASSEMBLIES	1
16	1-130 - 1-155	OPTIONAL EQUIPMENT	1
17	3-311-010145	PARK STAND	2
18	346SL	PIN	2
19	104235	PARK STAND WLDMT LH BOLT ON	1
20	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
21	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
22	104236	PARK STAND WLDMT RH BOLT ON	1
23	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
24	3-725-010058	LANDING GEAR, PIN DROP	2

NOTE: STD PIN DROP PARK STAND (317B) INCLUDES ITEMS 18 AND 24. STD PARK STAND INST. BOLT - ON P/N 104243 (318B/319B) INCLUDES ITEMS 17-23.

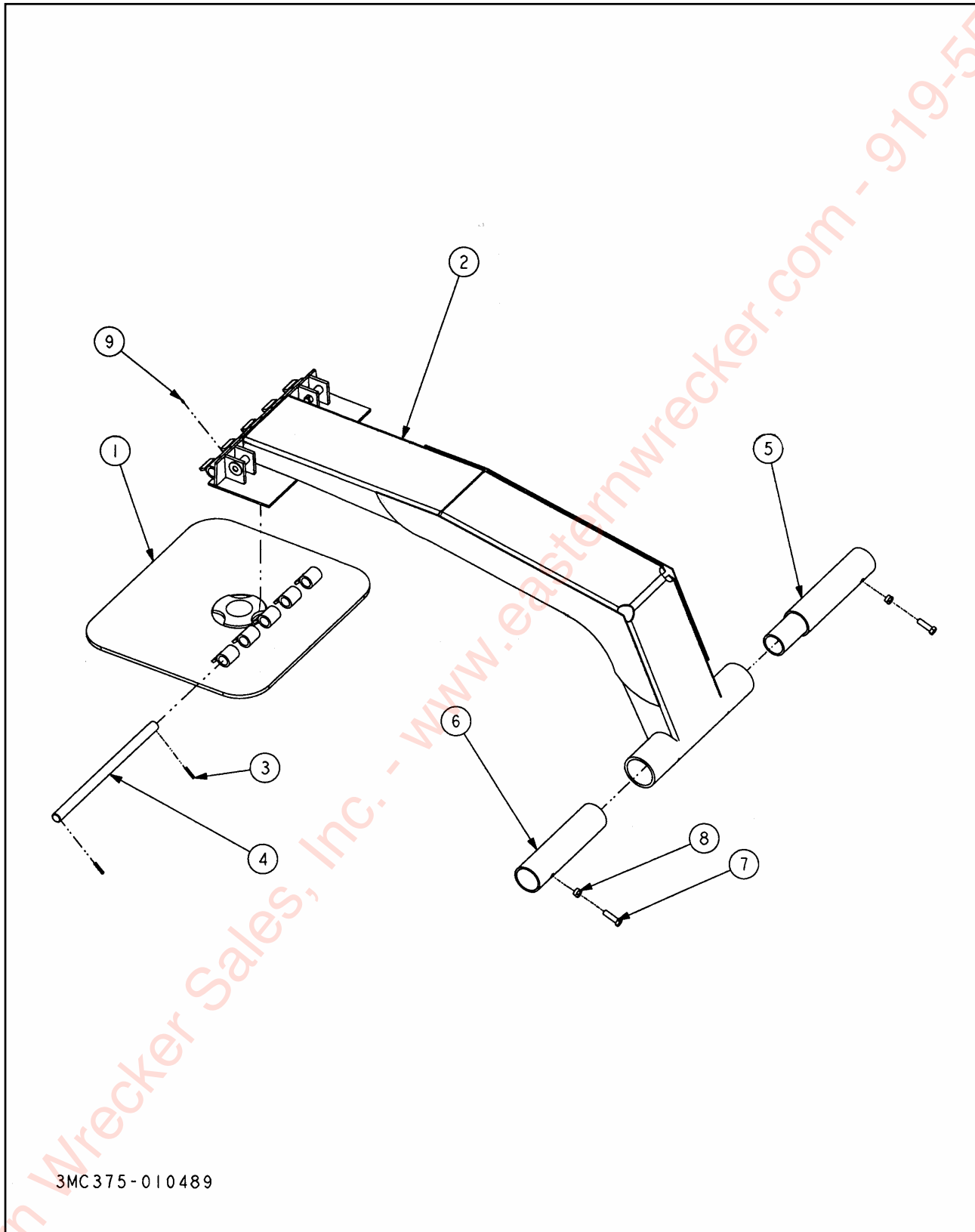


Figure 1-2 Fifth Wheel Assembly

FIFTH WHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-375-010489-1	HITCH INSTL., 24 KP 317B,319B, 30 KP 318B	
	3-375-010489-2	HITCH INSTL., 18 KP 317B,319B	
	104249	HITCH INSTL., 26 KP 318B	
	104466	HITCH INSTL., 18 KP 317B-CA MODEL	
1	3-375-010250	PLATE HITCH (24KP-317B,319B/ 18KP-317B-CA / 30KP-318)	1
	3-375-010349	PLATE HITCH (18KP-317B,319B)	1
	104248	HITCH WELDMENT (26KP-318B)	1
2	3-375-010337	FIFTH WHEEL HITCH (317B HD TANDEM)	1
3	1-647-010004255	SPRING PIN SLOTTED	2
4	3-557-010030	PIN FIFTH WHEEL HINGE	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 GREASE 1/4-28 SHORT	6

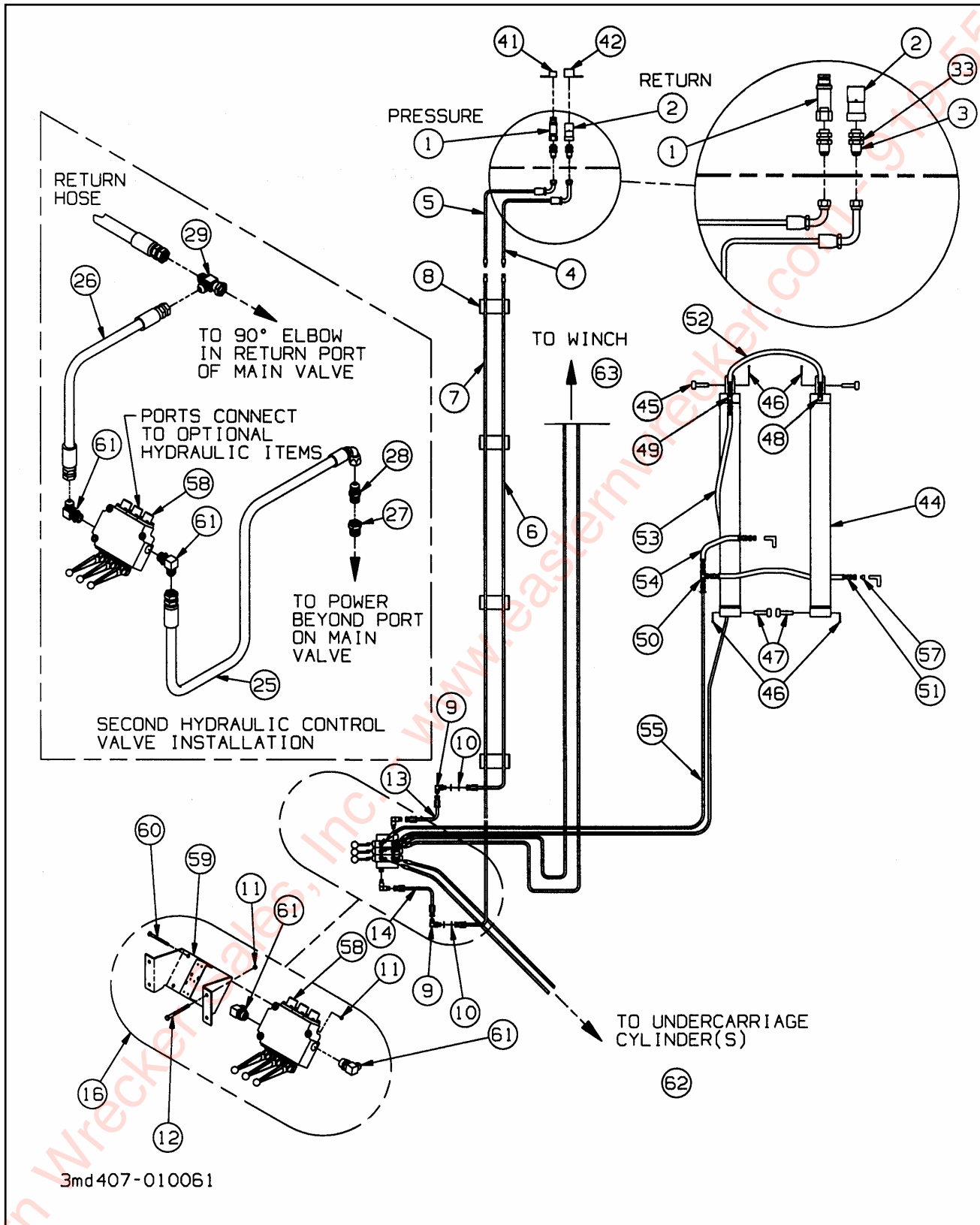


Figure 1-3 Hydraulic System (317B)

HYDRAULIC SYSTEM (317B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010062	HYDRAULIC INSTL. CONTROLS (ITEMS 1-43)	
	3-375-010489	HITCH INSTALLATION (ITEMS 44-56)	
1	105479	COUPLER FLAT FACE MALE	1
2	105480	COUPLER FLAT FACE FEMALE	1
3	105483	ADAPTER BULKHEAD	2
4	3-832-010300	TUBE ASSEMBLY	1
	3-832-010304	TUBE ASSEMBLY (317B-CA ONLY)	1
5	3-832-010302	TUBE ASSEMBLY	1
	3-832-010305	TUBE ASSEMBLY (317B-CA ONLY)	1
6	3-832-010301	TUBE ASSEMBLY	1
7	3-832-010303	TUBE ASSEMBLY	1
8	9-181-010021-3	CLAMP TUBE CHANNEL MOUNT	8
9	2043-12-12S	ADAPTER 90 BULKHEAD	2
10	110-7389	FLAT WASHER 1" SAE	4
11	1-510-010001	NUT FLANGE LOCK 3/8-16	A/R
12	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 GR5	4
13	1-397-010304029	HOSE ASSEMBLY 29	1
14	1-397-010304031	HOSE ASSEMBLY 31	1
15	1-822-010001018	TRIM LOK (NOT SHOWN)	1
16	*	VALVE ASSEMBLY OPTIONS (SEE PAGES 1-17, 1-18, & 1-21)	1
25	1-397-010389018	HOSE ASSEMBLY 18	1
26	1-397-010304022	HOSE ASSEMBLY 22	1
27	1V0208	POWER BEYOND REMOTE	1
28	2021-12-8S	ADAPTER	1
29	23102-12-12S	ADAPTER TEE	1
33	1-861-010059-21	WASHER LOCKING INTERNAL TOOTH	2
34	3-765-010001	SWITCH RMT CTRL ASSY (NOT SHOWN) (SEE PAGE 1-31)	1
35	*	REMOTE OPTIONS (NOT SHOWN) (SEE PAGE 1-31)	1
41	105481	COUPLER DUST CAP MALE	1
42	105482	COUPLER DUST CAP FEMALE	1
43	105822	DECAL HYD COUPLER (NOT SHOWN) (SEE PAGE 1-114)	1
44	3-242-010099	CYLINDER HYDRAULIC 4 X 42 (SEE PAGE 1-14)	2
45	3-557-010059	PIN CYLINDER ROD END	2
46	1-557-010362-54	PIN COTTER	4
47	3-557-010033	PIN CYLINDER BUTT END	2
48	2062-8-8S	ADAPTER 90	3
49	203003-8-8S	ADAPTER TEE	1
50	2033-8-8S	ADAPTER TEE	1
51	1-397-010301042	HOSE ASSEMBLY 42	1
52	107756	HOSE ASSEMBLY 24	1
53	1-397-010301157	HOSE ASSEMBLY 157	1
54	1-397-010301040	HOSE ASSEMBLY 40	1
55	1-397-010301127	HOSE ASSEMBLY 127	1
56	104464	STOP TILT CYLINDER (317B-CA ONLY)	2
57	3-846-010156	VALVE RESTRICTOR - ONE WAY	2
58	3-846-010008	VALVE 3-SPOOL (SEE PAGE 1-23)	REF
59	3-482-010575	MOUNT WELDMENT VALVE	REF
60	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	REF
61	2062-12-12S	ADAPTER 90	REF
62	*	CYLINDER ASSEMBLY (SEE PAGES 1-11 & 1-13)	
63	*	WINCH INSTALLATION (SEE PAGE 1-73)	

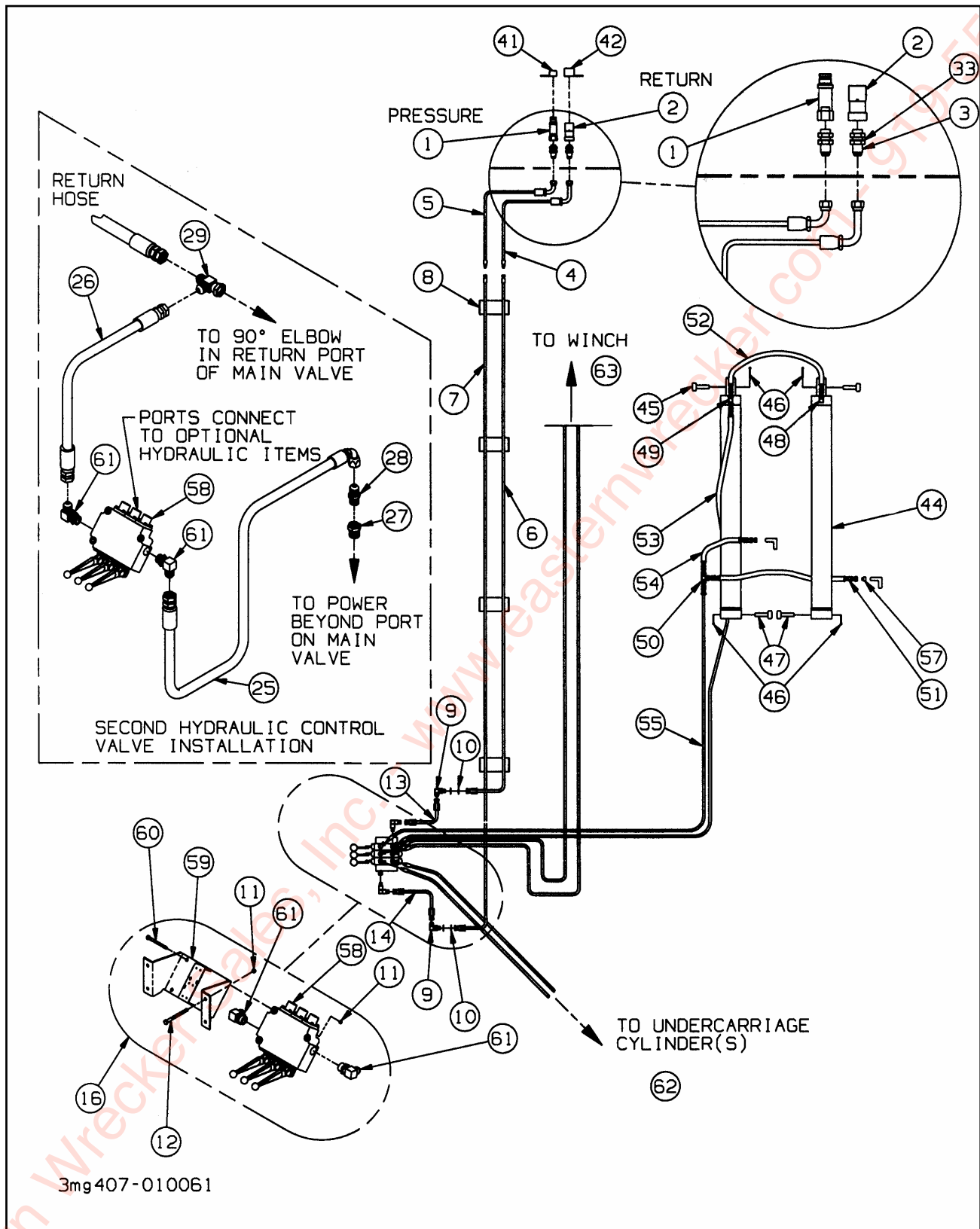


Figure 1-4 Hydraulic System (318B)

HYDRAULIC SYSTEM (318B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010062	HYDRAULIC INSTL. CONTROLS (ITEMS 1-43)	
	3-375-010489	HITCH INSTALLATION (ITEMS 44-56)	
1	105479	COUPLER FLAT FACE MALE	1
2	105780	COUPLER FLAT FACE FEMALE	1
3	105483	ADAPTER BULKHEAD	2
4	103986	TUBE ASSEMBLY	1
5	103987	TUBE ASSEMBLY	1
6	3-832-010301	TUBE ASSEMBLY	1
7	3-832-010303	TUBE ASSEMBLY	1
8	9-181-010021-3	CLAMP TUBE CHANNEL MOUNT	8
9	2043-12-12S	ADAPTER 90 BULKHEAD	2
10	110-7389	FLAT WASHER 1" SAE	4
11	1-510-010001	NUT FLANGE LOCK 3/8-16	A/R
12	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 GR5	4
13	104385	HOSE ASSEMBLY 36	1
14	1-397-010304031	HOSE ASSEMBLY 31	1
15	1-822-010001018	TRIM LOK (NOT SHOWN)	1
16	*	VALVE ASSEMBLY OPTIONS (SEE PAGES 1-17, 1-18, & 1-21)	
25	1-397-010389018	HOSE ASSEMBLY 18	1
26	1-397-010304022	HOSE ASSEMBLY 22	1
27	1V0208	POWER BEYOND REMOTE	1
28	2021-12-8S	ADAPTER	1
29	23102-12-12S	ADAPTER TEE	1
33	1-861-010059-21	WASHER LOCKING INTERNAL TOOTH	2
34	3-765-010001	SWITCH, RMT CTRL ASSY (NOT SHOWN) (SEE PAGE 1-31)	1
35	*	REMOTE OPTIONS (NOT SHOWN) (SEE PAGE 1-31)	
41	105481	COUPLER DUST CAP MALE	1
42	105482	COUPLER DUST CAP FEMALE	1
43	105822	DECAL HYD COUPLER (NOT SHOWN) (SEE PAGE 1-114)	1
44	3-242-010099	CYLINDER HYDRAULIC 4 X 42 (SEE PAGE 1-14)	2
45	3-557-010059	PIN CYLINDER ROD END	2
46	1-557-010362-54	PIN COTTER	4
47	3-557-010033	PIN CYLINDER BUTT END	2
48	2062-8-8S	ADAPTER 90	3
49	203003-8-8S	ADAPTER TEE	1
50	2033-8-8S	ADAPTER TEE	
51	1-397-010301042	HOSE ASSEMBLY 42	1
52	107756	HOSE ASSEMBLY 24	1
53	1-397-010301157	HOSE ASSEMBLY 157	1
54	1-397-010301040	HOSE ASSEMBLY 40	1
55	1-397-010301127	HOSE ASSEMBLY 127	1
57	3-846-010156	VALVE RESTRICTOR - ONE WAY	2
58	3-846-010008	VALVE 3-SPOOL (SEE PAGE 1-23)	REF
59	3-482-010575	MOUNT WELDMENT VALVE	REF
60	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	REF
61	2062-12-12S	ADAPTER 90	REF
62	*	CYLINDER ASSEMBLY (SEE PAGES 1-11 & 1-13)	
63	*	WINCH INSTALLATION (SEE PAGE 1-73)	

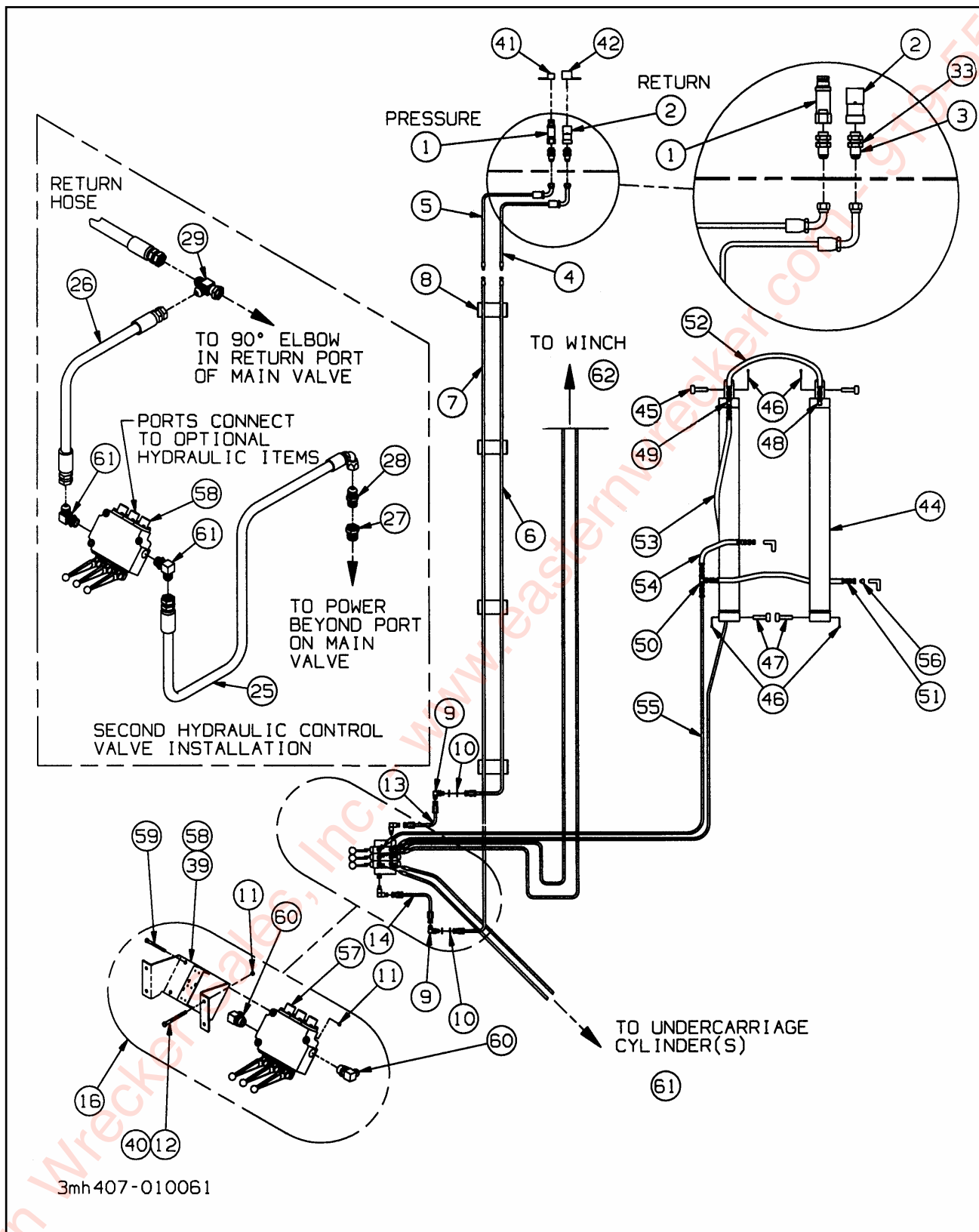
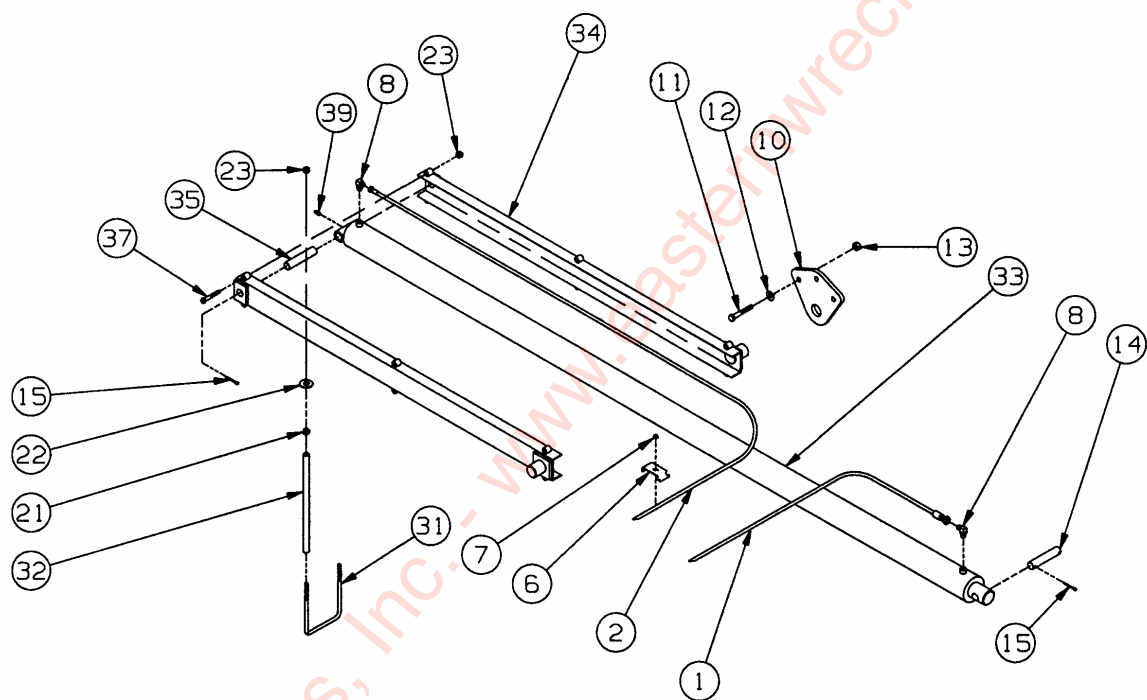


Figure 1-5 Hydraulic System (319B)

HYDRAULIC SYSTEM (319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010062	HYDRAULIC INSTL. CONTROLS (ITEMS 1-43)	
	3-375-010489	HITCH INSTALLATION (ITEMS 44-56)	
1	105479	COUPLER FLAT FACE FLAT	1
2	105479	COUPLER FLAT FACE FEMALE BODY	1
3	105483	ADAPTER BULKHEAD	2
4	3-832-010300	TUBE ASSEMBLY	1
5	3-832-010302	TUBE ASSEMBLY	1
6	3-832-010301	TUBE ASSEMBLY	1
7	3-832-010303	TUBE ASSEMBLY	1
8	9-181-010021-3	CLAMP TUBE CHANNEL MOUNT	8
9	2043-12-12S	ADAPTER 90 BULKHEAD	2
10	110-7389	FLAT WASHER 1" SAE	4
11	1-510-010001	NUT FLANGE LOCK 3/8-16	4
12	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
13	104385	HOSE ASSEMBLY 36	1
14	1-397-010304031	HOSE ASSEMBLY 31	1
15	1-822-010001018	TRIM-LOK (NOT SHOWN)	1
16	*	VALVE ASSEMBLY OPTIONS (SEE PAGES 1-17, 1-18, & 1-21)	1
25	1-397-010389018	HOSE ASSEMBLY 18	1
26	1-397-010304022	HOSE ASSEMBLY 22	1
27	1V0208	POWER BEYOND REMOTE	1
28	2021-12-8S	ADAPTER	1
29	203102-12-12S	ADAPTER TEE	1
33	1-861-010059-21	WASHER LOCKING INTERNAL TOOTH	2
34	3-765-010001	SWITCH, RMT CTRL ASSY (NOT SHOWN) (SEE PAGE 1-31)	1
35	*	REMOTE OPTIONS (NOT SHOWN) (SEE PAGE 1-31)	1
39	104892	SHIELD CONTROL VALVE	1
40	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	4
41	105481	COUPLER DUST CAP MALE	1
42	105482	COUPLER DUST CAP FEMALE	1
43	105822	DECAL HYD COUPLER (NOT SHOWN) (SEE PAGE 1-114)	1
44	3-242-010099	CYLINDER HYDRAULIC 4 X 42 (SEE PAGE 1-14)	2
45	3-557-010059	PIN CYLINDER ROD END	2
46	1-557-010362-54	PIN COTTER	4
47	3-557-010033	PIN CYLINDER BUTT END	2
48	2062-8-8S	ADAPTER 90	3
49	203003-8-8S	ADAPTER TEE	1
50	2033-8-8S	ADAPTER TEE	1
51	1-397-010301042	HOSE ASSEMBLY 42	1
52	107756	HOSE ASSEMBLY 24	1
53	1-397-010301157	HOSE ASSEMBLY 157	1
54	1-397-010301040	HOSE ASSEMBLY 40	1
55	1-397-010301127	HOSE ASSEMBLY 127	1
56	3-846-010156	VALVE RESTRICTOR - ONE WAY	2
57	3-846-010008	VALVE 3-SPOOL (SEE PAGE 1-23)	REF
58	3-482-010575	MOUNT WELDMENT VALVE	REF
59	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	REF
60	2062-8-8S	ADAPTER 90	REF
61	*	CYLINDER ASSEMBLY (SEE PAGES 1-11 & 1-13)	
62	*	WINCH INSTALLATION (SEE PAGE 1-73)	

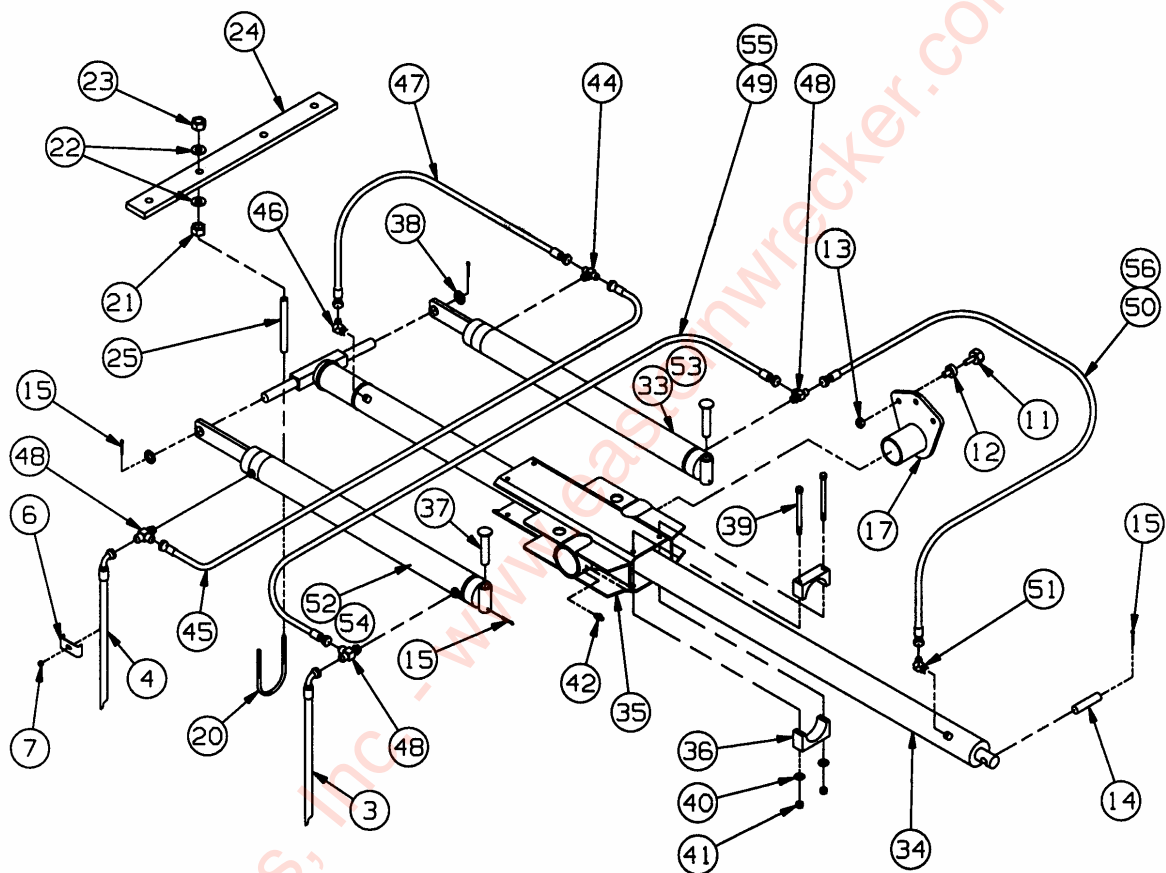


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Figure 1-6 Hydraulic System - Std Load Angle

HYDRAULIC SYSTEM - STD LOAD ANGLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010038	HYDRAULIC INSTALLATION U/C SLIDE	
1	1-397-010301148	HOSE ASSEMBLY 148	1
	1-397-010301184	HOSE ASSEMBLY 184	1
	1-397-010301220	HOSE ASSEMBLY 220	1
	1-397-010301244	HOSE ASSEMBLY 244	1
2	1-397-010301051	HOSE ASSEMBLY 51	1
	1-397-010301054	HOSE ASSEMBLY 54	1
	1-397-010301090	HOSE ASSEMBLY 90	1
	1-397-010301114	HOSE ASSEMBLY 114	1
	1-397-010301130	HOSE ASSEMBLY 130	1
5	3-242-010153	CYL. ASSY (NOT SHOWN)(INCL 15, 23, 33-37)	1
6	2-181-010001	HOSE CLAMP	2
7	1-510-010001	NUT FLANGE LOCK 3/8-16	2
8	2062-8-8S	ADAPTER 90	2
9	TY244MX	TY-WRAP (NOT SHOWN)	6
10	3-125-010241	BRACKET CYLINDER MOUNT	2
11	1-654-010061-06	SCREW HEX HEAD CAP 3/4-10 X 2-1/4 GR5	6
12	3-861-010038	WASHER STEP	6
13	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	6
14	3-557-010120	PIN UNDERCARRIAGE CYLINDER	1
15	1-557-010362-54	PIN COTTER 3/16 X 2-1/4	3
21	1-512-010007-09	NUT HEX 1/2-13 GRB	2
22	1-861-010032-15	WASHER FLAT 1/2W	4
23	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
31	3-102-010048	U-BOLT 7-5/8 X 10	1
32	2750-8	HOSE, 1/2 AIR BRAKE X 20	1.666
33	3-242-010102	CYLINDER HYDRAULIC 4 X 126 (SEE PAGE 1-15)	1
34	3-120-010073	BRACKET ASSEMBLY CYLINDER TRUNNION	2
35	3-557-010033	PIN CYLINDER BUTT END	1
37	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5	6
39	1-298-010001-1	FITTING GREASE 1/4-28	1



3mf 407-010061

Figure 1-7 Hydraulic System - Low Load Angle

HYDRAULIC SYSTEM - LOW LOAD ANGLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010038	HYDRAULIC INSTALLATION U/C SLIDE	
3	1-397-010302064	HOSE ASSEMBLY 64	1
	1-397-010302112	HOSE ASSEMBLY 112	1
	1-397-010302136	HOSE ASSEMBLY 136	1
	1-397-010302160	HOSE ASSEMBLY 160	1
	1-397-010302192	HOSE ASSEMBLY 192	1
4	1-397-010301048	HOSE ASSEMBLY 48	1
	1-397-010301084	HOSE ASSEMBLY 84	1
	1-397-010301108	HOSE ASSEMBLY 108	1
	1-397-010302042	HOSE ASSEMBLY 42	1
	1-397-010302078	HOSE ASSEMBLY 78	1
	104369	HOSE ASSEMBLY 96	1
	104370	HOSE ASSEMBLY 126	1
6	2-181-010001	HOSE CLAMP	2
7	1-510-010001	NUT FLANGE LOCK 3/8-16	2
9	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	6
11	1-654-010061-06	SCREW HEX HEAD CAP 3/4-10 X 2-1/4 GR5	6
12	3-861-010038	WASHER STEP	6
13	1-512-010005-15	NUT HEX LOCK 3/4-10 GRB	6
14	3-557-010120	PIN UNDERCARRIAGE CYLINDER	1
15	1-557-010362-54	PIN COTTER	6
16	3-242-010152	CYL. ASSY (INCL 9, 15, 33-56) (NOT SHOWN)	1
	3-242-010152-03	CYL. ASSY (INCL 9, 15, 33-56) (NOT SHOWN)	1
	103743	CYL. ASSY (INCL 9, 15, 33-56) (NOT SHOWN)	1
17	3-125-010244	BRACKET WELDMENT CYLINDER TRUNNION	2
20	3-102-010022	U-BOLT, SUPPORT	2
21	1-512-010007-09	NUT HEX 1/2-13 GRB	2
22	1-861-010032-15	WASHER FLAT 1/2W	4
23	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	2
24	3-146-010001	RUBBER BUMPER CYLINDER	1
25	1-397-010010016	HOSE HYDRAULIC	2
33	3-242-010099	CYLINDER HYDRAULIC (SEE PAGE 1-14)	2
34	3-242-010103	CYLINDER HYDRAULIC 4 X 126 (SEE PAGE 1-15)	1
35	3-120-010125	CYLINDER TRUNNION ASSEMBLY	1
36	3-120-010117	NYLATRON BEARING	4
37	3-557-010031	PIN CYLINDER BUTT END	2
38	3-150-010223	BUSHING	2
39	1-654-010059-21	SCREW HEX HEAD CAP 5/8-11 X 8 GR5	4
40	1-861-010032-19	WASHER FLAT 5/8W	4
41	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
42	1-298-010001-1	FITTING, GREASE 1/4-28	2
43	1-161-010033-04	CAP, PLASTIC TAPERED (NOT SHOWN)	2
44	203003-8-8S	ADAPTER TEE	A/R
45	1-397-010301039	HOSE ASSEMBLY 39	1
46	2061-8-8S	ADAPTER 45	1
47	1-397-010302070	HOSE ASSEMBLY 70	1
48	203005-8-8S	ADAPTER TEE	A/R
49	1-397-010301042	HOSE ASSEMBLY 42 (317B, 319B)	1
50	107486	HOSE ASSEMBLY 90 (317B, 319B)	1
51	2062-8-8S	ADAPTER 90	1
52	3-311-010499	TUBE CYLINDER STOP (317B-45)	1
53	103744	CYL 4 X 42 (CURB) (318B)(SEE PAGE 1-14)	1
54	103745	CYL 4 X 42 (STREET) (318B)(SEE PAGE 1-14)	1
55	104279	HOSE ASSEMBLY 30 (318B)	1
56	1-397-010302102	HOSE ASSEMBLY 102 (318B)	1

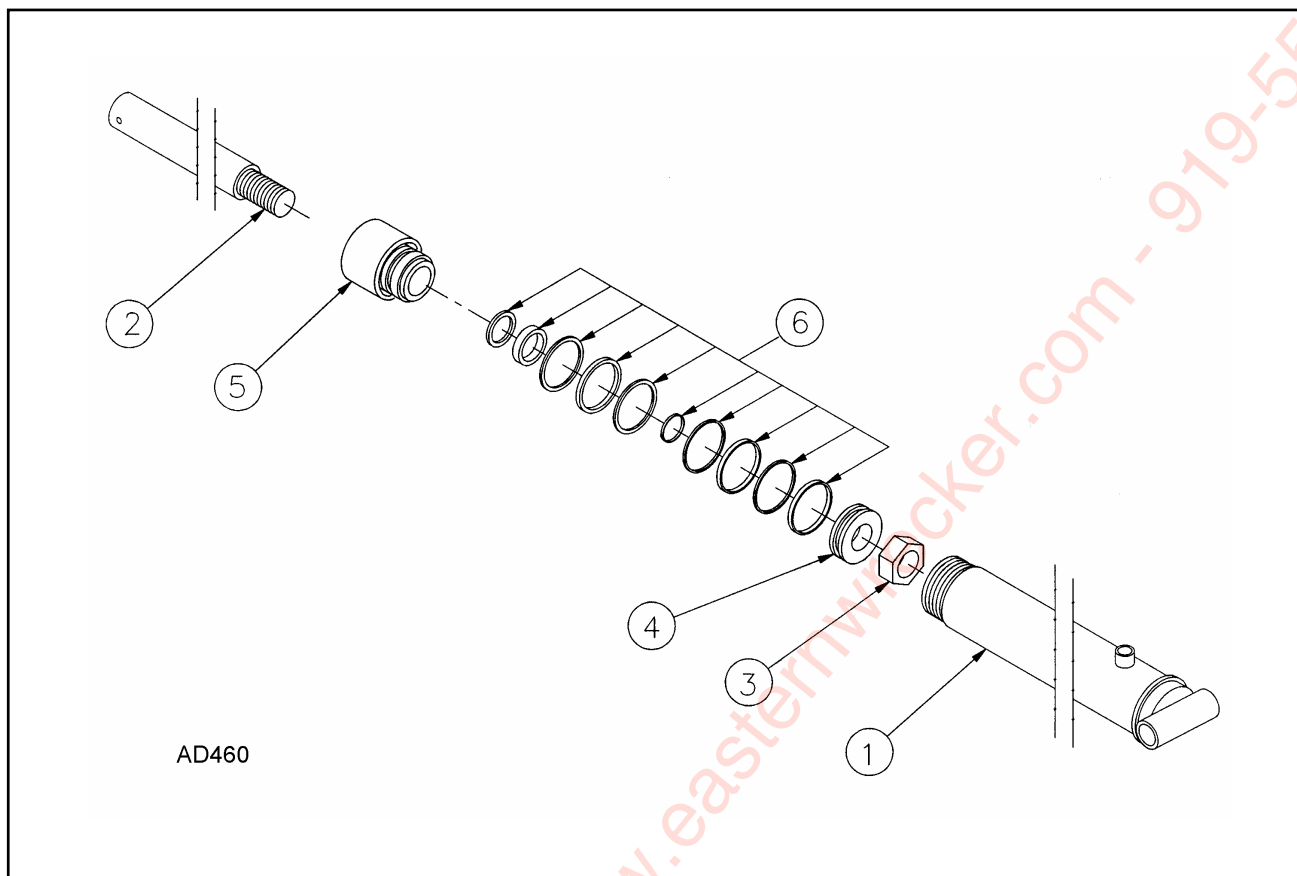


Figure 1-8 Cylinder 4" X 42"

CYLINDER 4" X 42"

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010099	CYLINDER HYDRAULIC 4 X 42 (TILT CYLINDER)	
	3-242-010065	CYLINDER 4 X 42	
	103744	CYLINDER 4 X 42	
	103745	CYLINDER 4 X 42	
1	*	BUTT AND TUBE ASSEMBLY	1
2	011100550	PISTON ROD	1
3	220000212	LOCKNUT (1-1/4 - 12)	1
4	071900048	PISTON	1
5	081900295	GLAND	1
6	PMCK-AD-460	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

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

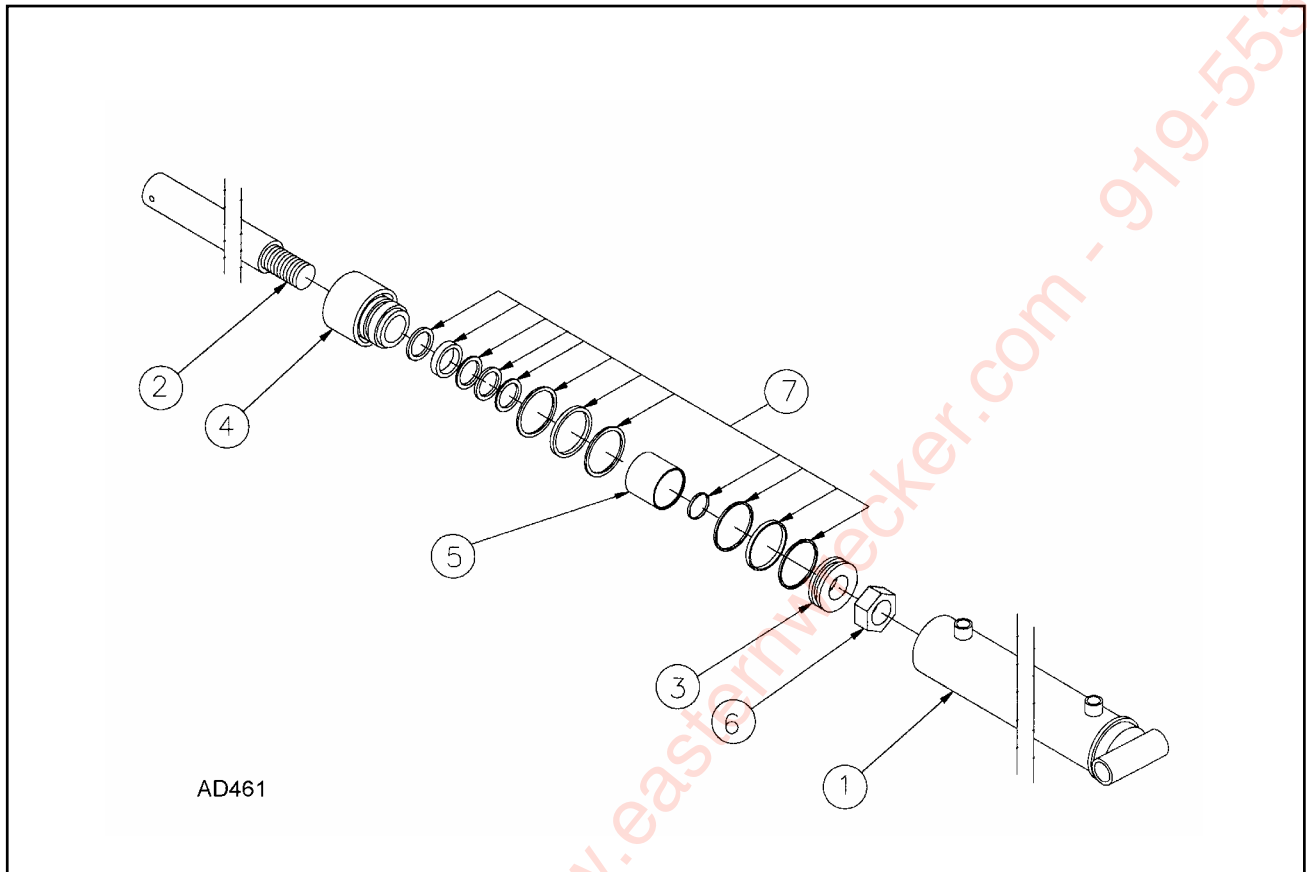


Figure 1-9 Cylinder 4" X 126"

CYLINDER 4" X 126"

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010102	CYLINDER HYDRAULIC 4 X 126 (SLA)	
	3-242-010103	CYLINDER HYDRAULIC 4 X 126 (LLA)	
	3-242-010066	CYLINDER 4 X 126	
1	*	BUTT AND TUBE ASSEMBLY	1
2	011300179	PISTON ROD	1
3	071900195	PISTON	1
4	081900277	GLAND	1
5	211300024	SPACER	1
6	220000212	LOCKNUT (1-1/4 - 12)	1
7	PMCK-AD-461	PACKING KIT (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

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

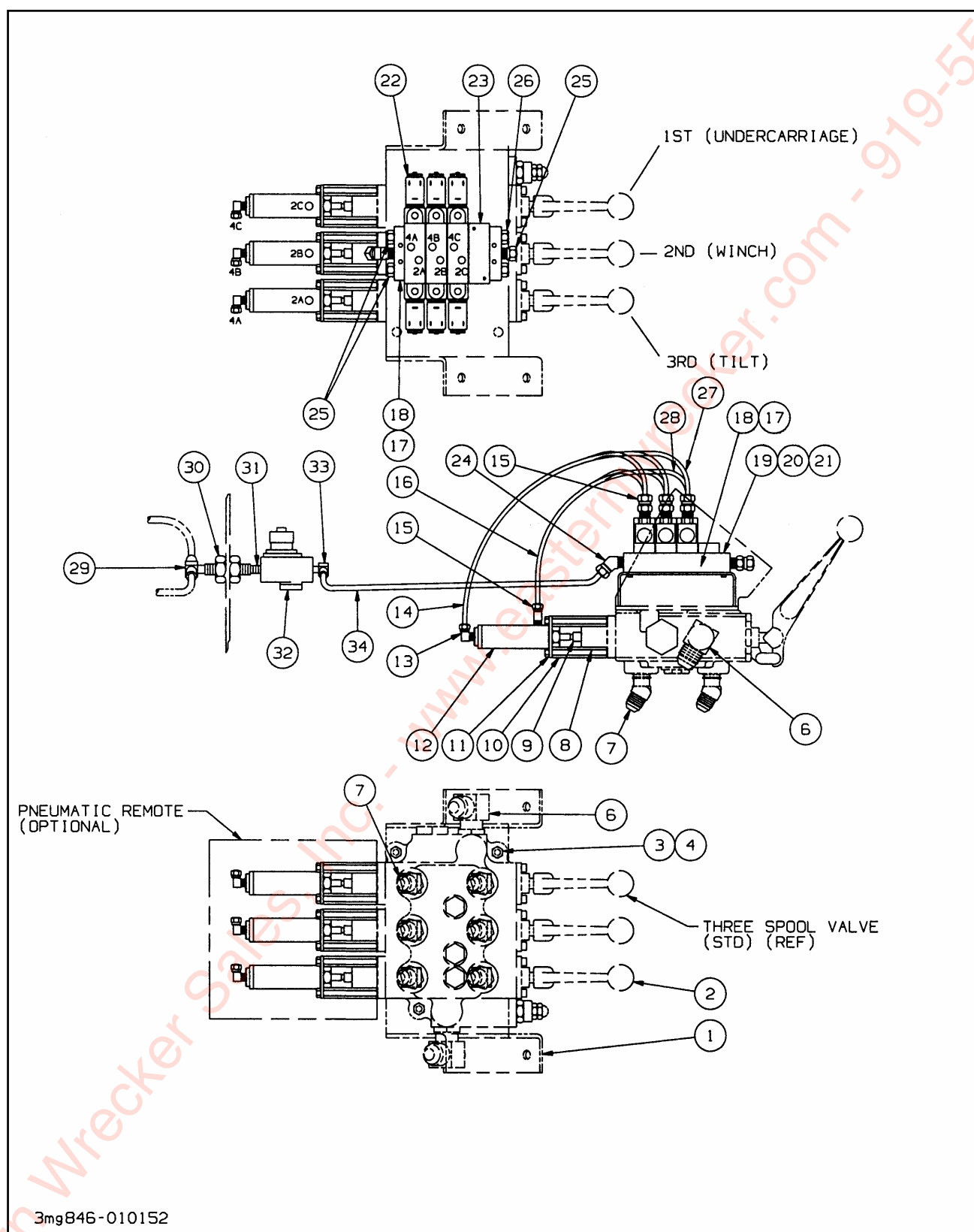


Figure 1-10 Valve Assembly, Three Spool

VALVE ASSEMBLY THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY				
			-01	-02	-03	-05	-08
	3-846-010152-01	VALVE ASSEMBLY 3-SPOOL STANDARD - NO REMOTES	*				
	3-846-010152-02	VALVE ASSEMBLY 3-SPOOL PLUG 1ST SPOOL		*			
	3-846-010152-03	VALVE ASSEMBLY 3-SPOOL PLUG 2ND/3RD SPOOL			*		
	3-846-010152-05	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND SPOOL - SINGLE REMOTE WINCH				*	
	3-846-010152-08	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND/3RD SPOOL-DUAL REM. WINCH/TILT					*
1	3-482-010575	MOUNT WELDMENT VALVE	1	1	1	1	1
2	3-846-010008	VALVE 3-SPL 2500 PSI (SEE PAGE 1-23)	1	1	1	1	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	3	3	3	3	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	3	3	3
5	1-007-010025	PLUG (NOT SHOWN - REPLACES #7)	-	2	4	-	-
6	2062-12-12S	ADAPTER 90	2	2	2	2	2
7	2061-8-8S	ADAPTER 45	6	4	2	6	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	-	-	-	1	2
9	3-007-010039	ADAPTER AIR CYLINDER	-	-	-	1	2
10	3-711-010055	SPACER MALE-FEMALE	-	-	-	4	8
11	3-482-010288	MOUNT AIR CYLINDER VALVE	-	-	-	1	2
12	3-238-010001	CYLINDER AIR	-	-	-	1	2
13	1-297-010008-01	FITTING AIR 90	-	-	-	1	2
14	NB-2-016	TUBING NYLON FLEX 1/8	-	-	-	1	2
15	68CA-2-2	CONNECTOR	-	-	-	3	6
16	NB-2-016	TUBING NYLON FLEX 1/8	-	-	-	1	2
17	3-843-010023	VALVE PNEU MANF- 2 STATION (NO PARTS BREAKDOWN)	-	-	-	1	1
18	3-843-010025	VALVE PNEU MANF- 4 STATION (NO PARTS BREAKDOWN)	-	-	-	4	-
19	1-654-010024014	SCREW MACH FLSTR 6-32X1-1/2	-	-	-	4	4
20	1-861-010032-01	WASHER FLAT #6	-	-	-	4	4
21	1-512-010003-02	NUT HEX LOCK W/NYLON #6-32	-	-	-	4	4
22	3-843-010015	VALVE PNEU 4-WAY, 3-POS (SEE PAGE 1-19)	-	-	-	1	2
23	3-843-010024	VALVE BLANK STATION COVER	-	-	-	1	-
24	1-297-010013-05	FITTING AIR	-	-	-	1	1
25	1-297-010033-02	FITTING BRASS PLUG HEX	-	-	-	3	3
26	3-136-010001-02	BREATHING PNEUMATIC EXHAUST	-	-	-	2	2
27	NB-2-016	TUBING NYLON FLEX 31	-	-	-	-	-
28	NB-2-016	TUBING NYLON FLEX 27	-	-	-	-	-
29	1-297-010015-09	FITTING AIR BRASS	1	1	1	1	1
30	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1	1	1	1	1
31	1-297-010020-02	FITTING BRASS PIPE	1	1	1	1	1
32	905-54-107	VALVE & FILTER PRESSURE	1	1	1	1	1
33	1-297-010008-07	FITTING AIR 90	1	1	1	1	1
34	1-833-010001	NYLON TUBING 1/4	3'	3'	3'	3'	3'

VALVE ASSEMBLY THREE SPOOL

ITEM	PART NO.	DESCRIPTION	QTY				
			-10	-11	-12	-13	-14
	3-846-010152-10	VALVE ASSEMBLY 3-SPOOL REMOTE - TRIPLE REMOTE WINCH/TILT/AXLE					
	3-846-010152-11	VALVE ASSEMBLY 3-SPOOL REMOTE 2ND WINCH					
	3-846-010152-12	VALVE ASSEMBLY 3-SPOOL REMOTE 2 WINCHES					
	3-846-010152-13	VALVE ASSEMBLY 3-SPOOL REMOTE 2 WINCHES/TILT					
	3-846-010152-14	VALVE ASSEMBLY 3-SPOOL REMOTE 2 WINCHES/TILT/AXLE (FOR VALVE ASSEMBLY DRAWING SEE FIGURE 1-10)					
1	3-482-010575	MOUNT WELDMENT VALVE	1	1	1	1	1
2	3-846-010008	VALVE 3-SPL 2500 PSI (SEE PAGE 1-23)	1	1	1	1	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	3	3	3	3	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3	3	3	3	3
5	1-007-010025	PLUG	-	4	-	-	-
6	2062-12-12S	ADAPTER 90	2	2	2	2	2
7	2061-8-8S	ADAPTER 45	6	2	6	6	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	3	1	1	2	3
9	3-007-010039	ADAPTER AIR CYLINDER	3	1	1	2	3
10	3-711-010055	SPACER MALE-FEMALE	12	4	4	8	12
11	3-482-010288	MOUNT AIR CYLINDER VALVE	3	1	1	2	3
12	3-238-010001	CYLINDER AIR	3	1	1	2	3
13	1-297-010008-01	FITTING AIR 90	3	1	1	2	3
14	NB-2-016	TUBING NYLON FLEX	3	-	1	2	3
15	68CA-2-2	CONNECTOR	9	-	2	5	8
16	NB-2-016	TUBING NYLON FLEX	3	-	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	1
19	1-654-010024014	SCREW MACH FLSTR 6-32 X 1-1/2	4	-	4	4	4
20	1-861-010032-01	WASHER FLAT #6	4	-	4	4	4
21	1-512-010003-02	NUT HEX LOCK W/NYLON #6-32	4	-	4	4	4
22	3-843-010015	VALVE PNEU 4-WAY, 3-POS (SEE PAGE 1-19)	3	-	2	3	4
23	3-843-010024	VALVE BLANK STATION COVER	1	-	-	1	-
24	1-297-010013-05	FITTING AIR	1	-	1	1	1
25	1-297-010033-02	FITTING BRASS PLUG HEX	3	-	3	3	3
26	3-136-010001-02	BREATHER PNEUMATIC EXHAUST	2	-	2	2	2
27	NB-2-016	TUBING NYLON FLEX 31	-	-	1	1	1
28	NB-2-016	TUBING NYLON FLEX 27	-	-	1	1	1
29	1-297-010015-09	FITTING AIR BRASS	1	1	1	1	1
30	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1	1	1	1	1
31	1-297-010020-02	FITTING BRASS PIPE	1	1	1	1	1
32	905-54-107	VALVE & FILTER PRESSURE	1	1	1	1	1
33	1-297-010008-07	FITTING AIR 90	1	1	1	1	1
34	1-833-010001	NYLON TUBING 1/4	3'	3'	3'	3'	3'

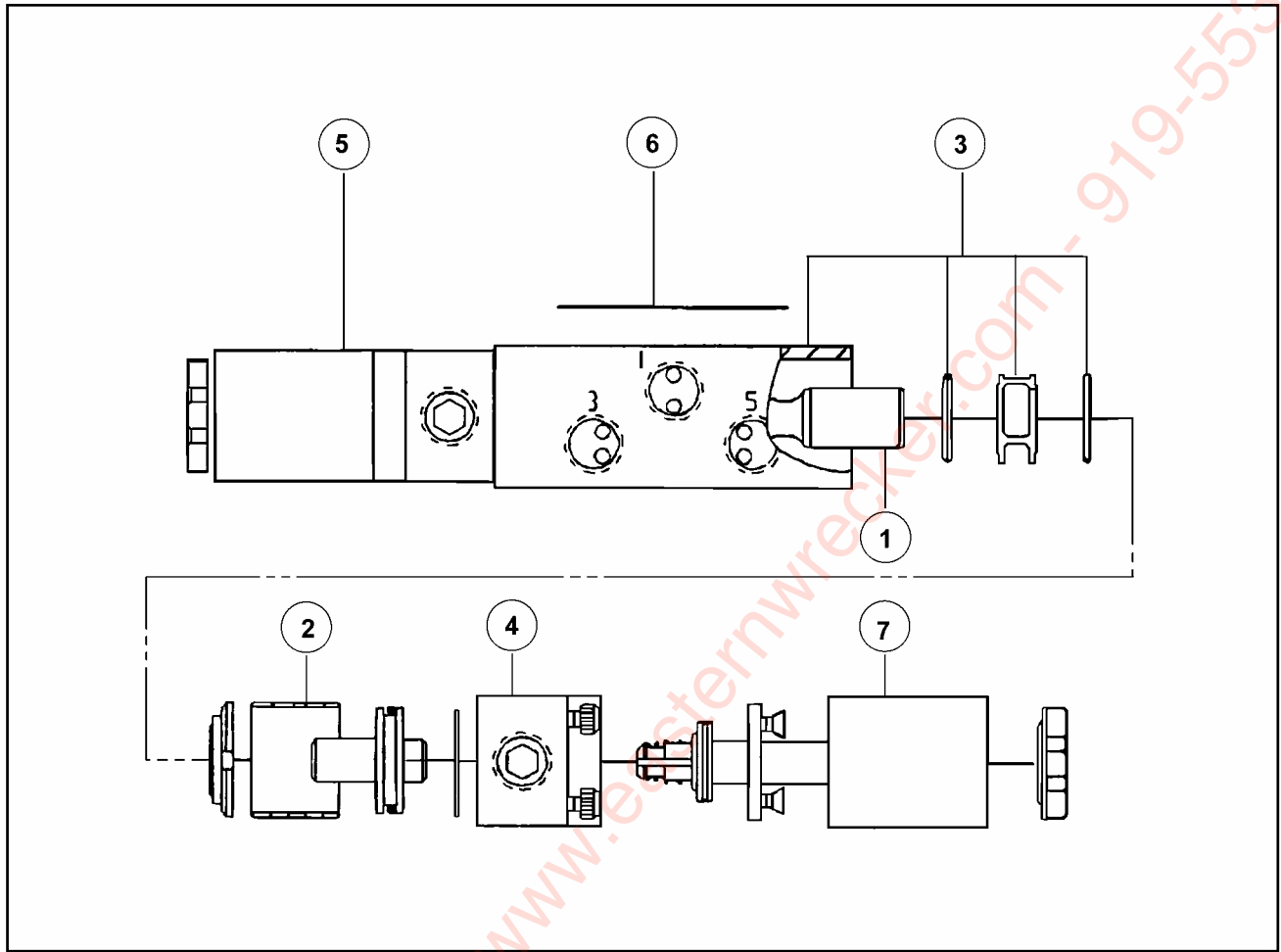


Figure 1-11 Pneumatic Valve

PNEUMATIC VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-843-010015	VALVE PNEUMATIC 4-WAY 3 POSITIONS	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 TEE SEALS, O-RINGS, SPRING AND PLUNGER AND GASKET)	

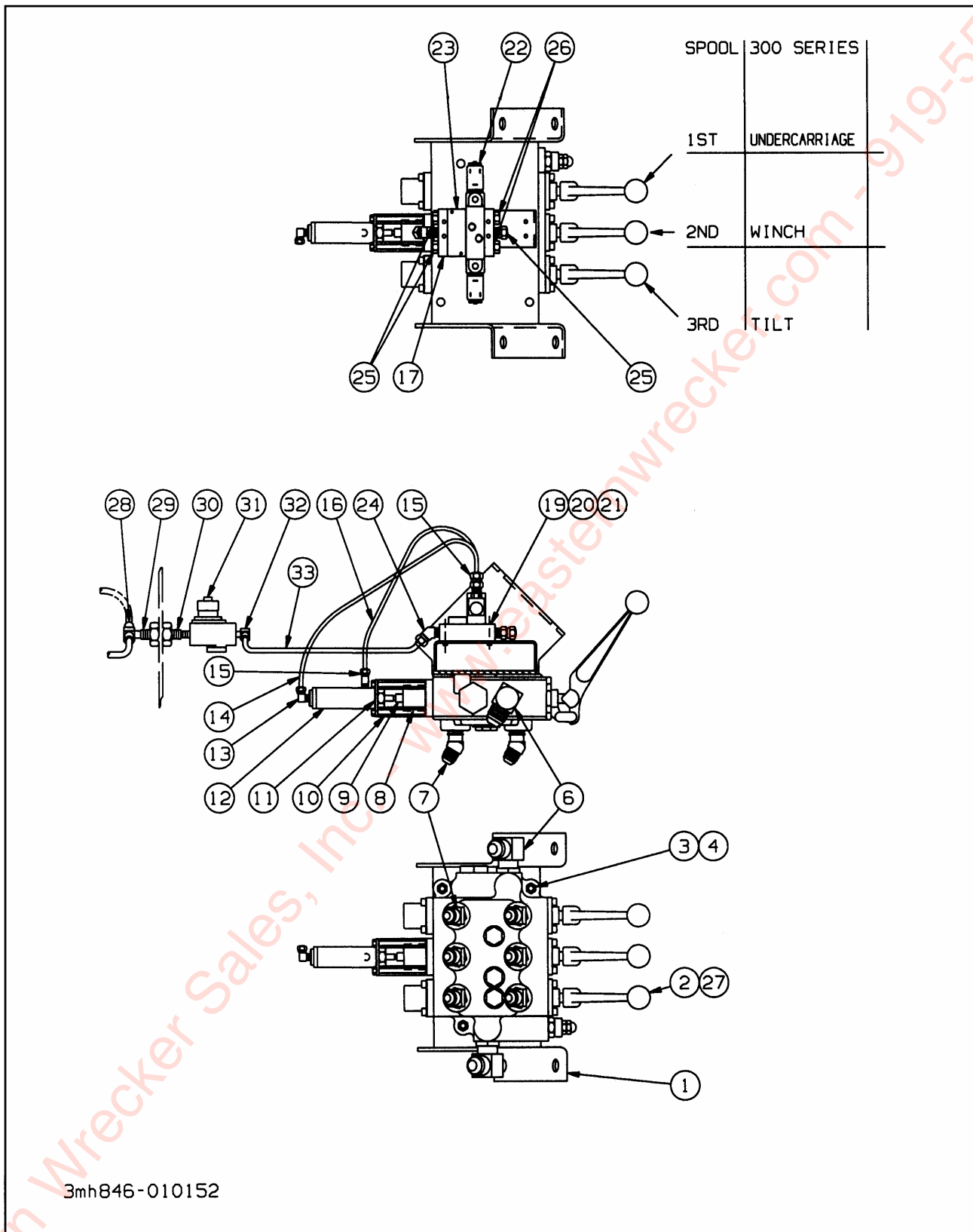


Figure 1-12 Valve Assembly, Motor Spool

VALVE ASSEMBLY MOTOR SPOOL

ITEM	PART NO.	DESCRIPTION	
	105973	VALVE ASSEMBLY MOTOR SPOOL CENTER	
	105974	VALVE ASSEMBLY MOTOR SPOOL CENTER REMOTE	
1	3-482-010575	MOUNT WELDMENT VALVE	1
3	1-654-010051-09	SCREW HEX HEAD CAP 3/8-16 X 2 GR5	3
4	1-510-010001	NUT FLANGE LOCK 3/8-16	3
6	2062-12-12S	ADAPTER 90	2
7	2061-8-8S	ADAPTER 45	6
8	3-161-010034	CAP MODIFIED VALVE SPOOL	1
9	3-007-010039	ADAPTER AIR CYLINDER	1
10	3-711-010055	SPACER MALE - FEMALE	4
11	3-482-010288	MOUNT AIR CYLINDER VALVE	1
12	3-238-010001	CYLINDER AIR	1
13	1-297-010008-01	FITTING AIR 90	1
14	NB-2-016	TUBING NYLON FLEX 1/8	1
15	68CA-2-2	CONNECTOR	3
16	NB-2-016	TUBING NYLON FLEX 1/8	1
17	3-843-010025	VALVE PNEU MANF - 2 STATION (NO PARTS BREAKDOWN)	1
19	1-654-010024014	SCREW MACH FLSTR 6-32X1-1/2	4
20	1-861-010032-01	WASHER FLAT #6	4
21	1-512-010003-02	NUT HEX LOCK W/ NYLON #6-32	4
22	3-843-010015	VALVE PNEUMATIC 4-WAY, 3 POSITION (SEE PAGE 1-19)	1
23	3-843-010024	VALVE BLANK STATION COVER	1
24	1-297-010013-05	FITTING AIR	1
25	1-297-010033-02	FITTING BRASS PLUG	3
26	3-136-010001-02	BREATHING PNEUMATIC EXHAUST	2
27	3-846-010147	VALVE ASSEMBLY 3 SPOOL MOTOR CENTER	1
	3-846-010149	VALVE ASSEMBLY 3 SPOOL MOTOR 2ND/3RD	1
28	1-297-010015-09	FITTING AIR BRASS	1
29	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
30	1-297-010020-02	FITTING BRASS PIPE	1
31	905-54-107	VALVE & FILTER PRESSURE	1
32	1-297-010008-07	FITTING AIR 90	1
33	1-833-010001	NYLON TUBING 1/4	3'

NOTE: MOTOR SPOOL VALVES ARE USED IN CONJUNCTION WITH DP PLANETARY WINCHES.

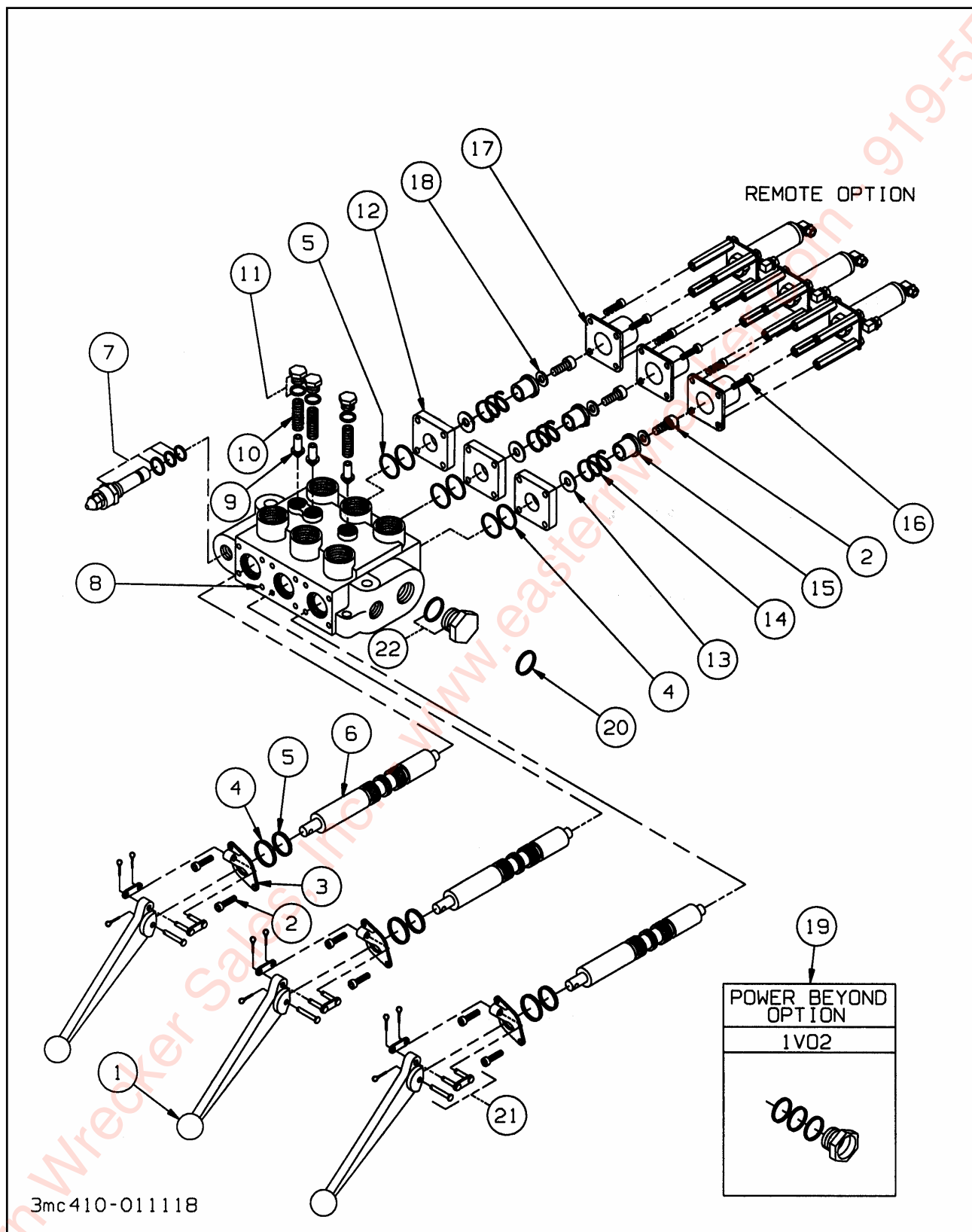


Figure 1-13 Three Spool Valve

THREE SPOOL VALVE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-846-010008	VALVE 3 SPOOL	
	3-846-010147	VALVE ASSEMBLY 3 SPOOL MOTOR CENTER	
	3-846-010149	VALVE ASSEMBLY 3 SPOOL MOTOR 2ND/3RD	
1	1V1703	VALVE HANDLE	3
2	2A0079-404	CAP SCREW (TIGHTEN TO 7-11 FT - LBS)	9
3	4Z4306	BRACKET HANDLE	3
4	1A0711	WASHER O-RING SPOOL	6
5	2A0283-7214	SEAL SPOOL	6
6	*	SPOOL 4-WAY	3
	*	SPOOL MOTORING 4-WAY	E
7	1R0017	RELIEF ASSEMBLY (1500-3000 PSI)(PRESET @2500 PSI)	1
8	*	HOUSING VALVE	1
9	1V0081	POPPET LOAD CHECK	3
10	1A0757	SPRING LOAD CHECK	3
11	1V1725	PLUG LOAD CHECK	3
12	1A0709	SPACER END	3
13	1A0291	WASHER STOP	3
14	1A0744	SPRING CENTERING	3
15	1A0292	COLLAR STOP	3
16	2A0079-406	CAP SCREW (TIGHTEN TO 7-11 FT - LBS)	12
17	1A0294	CAP END	3
18	1A0290	WASHER CENTERING SPRING	3
19	1V0208	ADAPTER ASSEMBLY REMOTE POWER BEYOND (CONTAINS ALL NECESSARY O-RINGS)	1
20	2A283-7214	GROMMET RUBBER (BOTTOM OUTLET)	1
21	1V1701	PIN KIT	3
22	2A0354-121	PLUG CONVERSION	1
	2V0010	SEAL KIT	1

* SOLD AS A MATCHED SET ONLY.

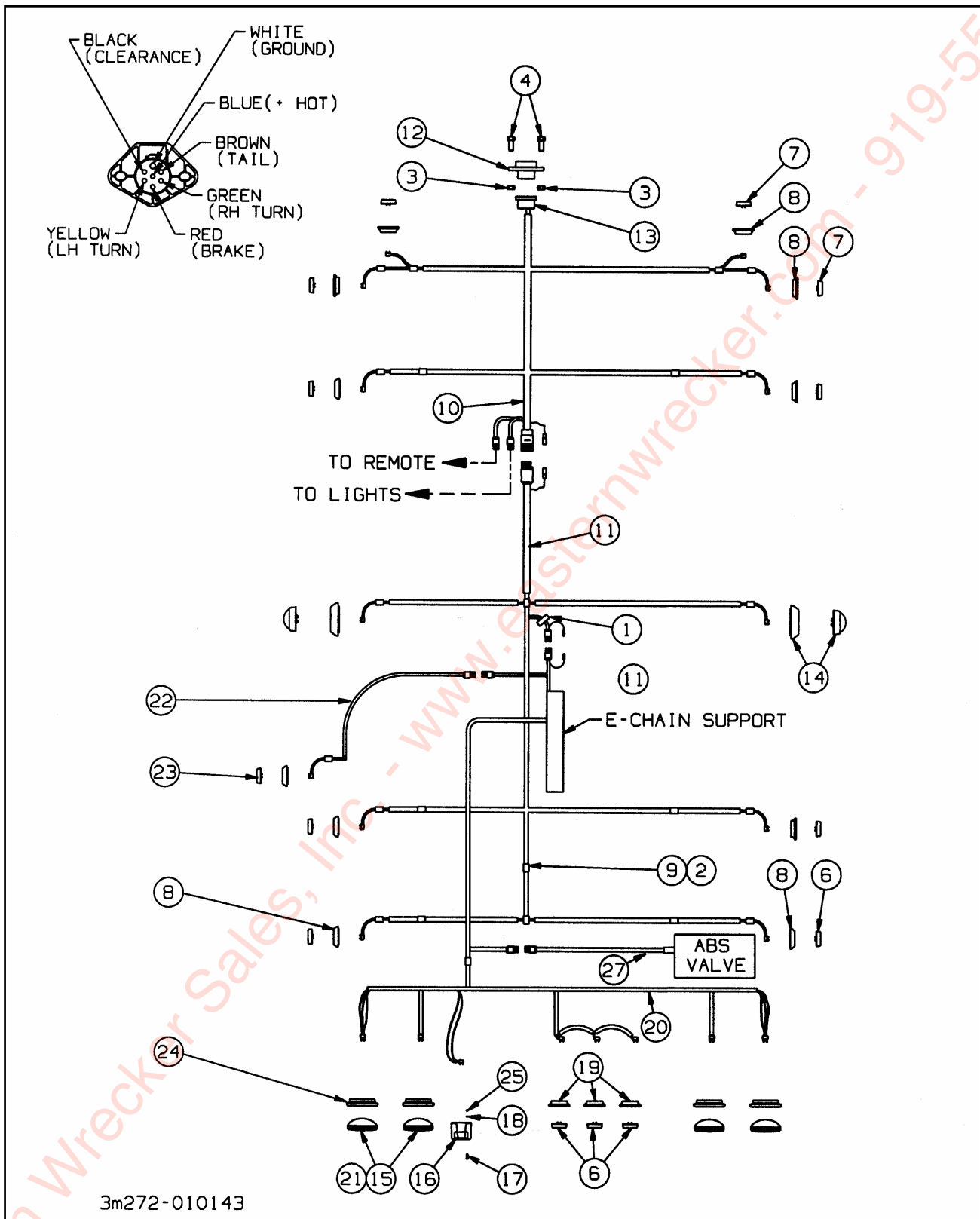


Figure 1-14 Electrical System

ELECTRICAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010143-01	ELECTRICAL SYSTEM INSTL. 45' - 48' (ITEMS 1-14)	
	3-272-010143-02	ELECTRICAL SYSTEM INSTL. 51' - 53' (ITEMS 1-14)	
	102778	SUSP. ASSY AIR RIDE RLU-228 W/E-CHAIN (ITEMS 15-25)	
	103535	SUSP. ASSY AIR RIDE RLU-228 ABS (ITEMS 15-25)	
	104789	SUSPENSION ASSY SPRING RIDE ABS (ITEMS 15-25)	
	104209	SUSPENSION ASSY 3AX AR-45 (ITEMS 15-25)	
1	1-343-010007	GROMMET	1
2	1-510-010001	NUT FLANGE LOCK 3/8-16	15
3	1-512-010005-03	NUT HEX LOCK 5/16-18	2
4	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
5	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	1
6	10205R	REFLECTOR LAMP RED	2
7	10205Y	REFLECTOR LAMP YELLOW	8
8	10403	GROMMET MOUNT	11
9	2-181-010001	HOSE CLAMP	15
10	3-368-010243-02	HARNESS ASSY, FRONT MAIN	1
11	3-368-010247	HARNESS ASSY, BED (45'-48')	1
	3-368-010248	HARNESS ASSY, BED (50'-53')	1
12	59S-7	RECEPTACLE 7 PIN	1
13	59W-2-3	RUBBER BOOT	1
14	60015Y	LIGHT TURN AND CLEARANCE	2
15	40002R	LIGHT STOP/TURN/TAIL	4
16	15009	LICENSE LAMP	1
17	1-656-010003051	SCREW ROUND HEAD MACH 10-24 X 3/4	2
18	1-861-010034-07	WASHER SPLIT LOCK #10	2
19	10404	GROMMET MOUNT 3 IN.	3
20	3-368-010175	WIRING HARNESS U/C 660 REAR	1
21	104159	LAMP RED STOP/TURN/TAIL RECTANGULAR (96")	4
22	3-368-010294	HARNESS TAN ABS LAMP	1
23	3-446-010046	LIGHT ABS LAMP AMBER	1
24	104160	GROMMET, RECTANGULAR LAMP (96")	4
25	1-512-010007-03	NUT, HEX #10-24	2
26	102836	HARNESS E-CHAIN	1
27	101853	POWER CABLE 4 COND.	1

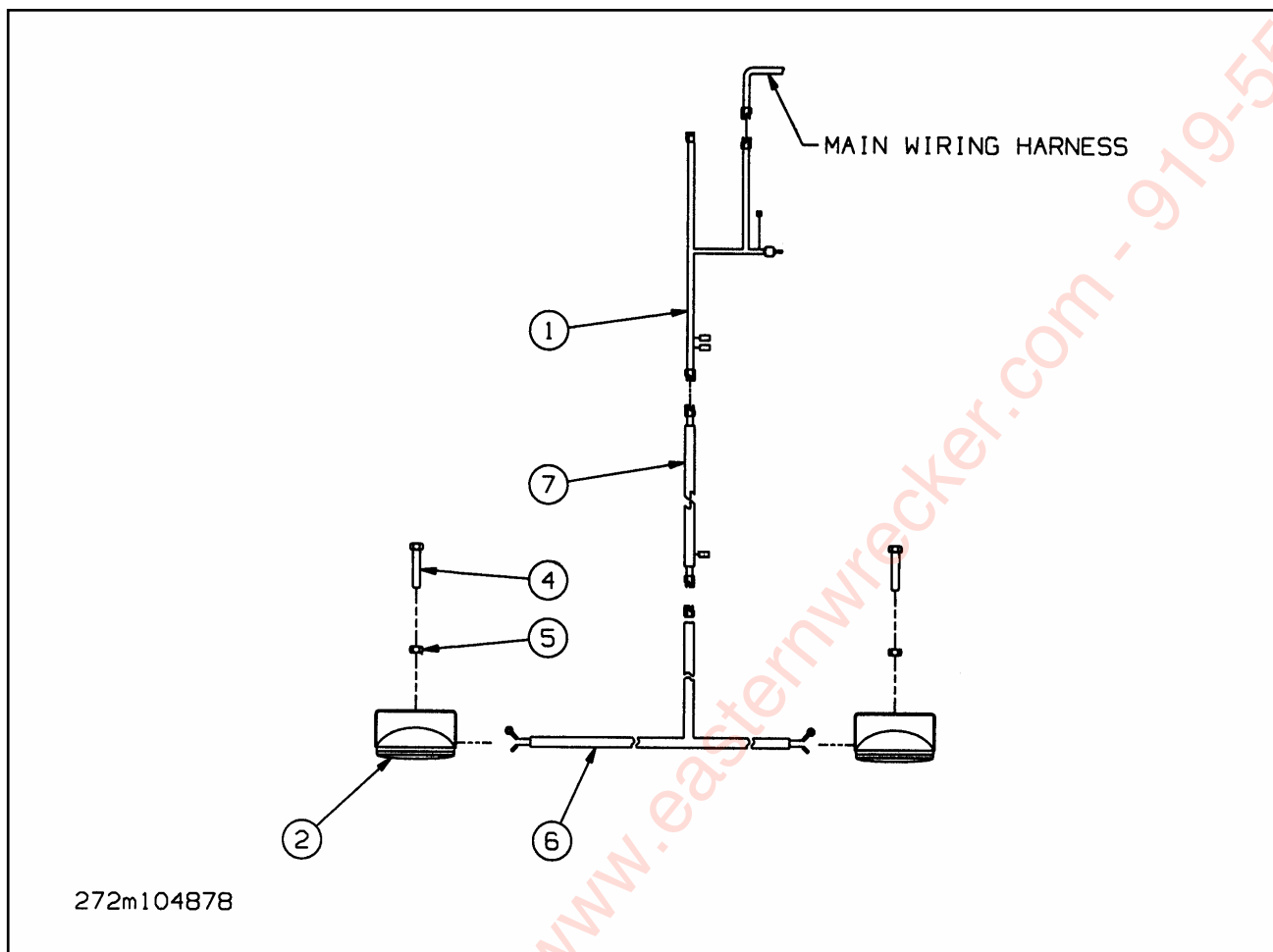


Figure 1-15 Winch Light Assembly (Optional)

WINCH LIGHT ASSEMBLY (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	104878	ELECTRICAL INSTAL., SINGLE WINCH LIGHT	
	104879	ELECTRICAL INSTAL., DUAL WINCH LIGHT	
1	101381	HARNESS LIGHT WORK COURTESY	1
2	64181	RECTANGULAR QUARTZ HALOGEN LAMP	1,2*
3	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	6
4	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	1,2*
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	1,2*
6	3-368-010250	HARNESS BULKHEAD LIGHTS	1
7	3-368-010252	HARNESS BULKHEAD LIGHTS	1
8	STP-147	CONNECTOR BULLET MALE	1,2*
9	3-573-010437	DECAL LIGHT(FOR LOCATION, SEE PAGE 1-114)	1

*THE FIRST QUANTITY IS FOR THE SINGLE WINCH LIGHT, SECOND QUANTITY IS FOR THE DUAL WINCH LIGHT.

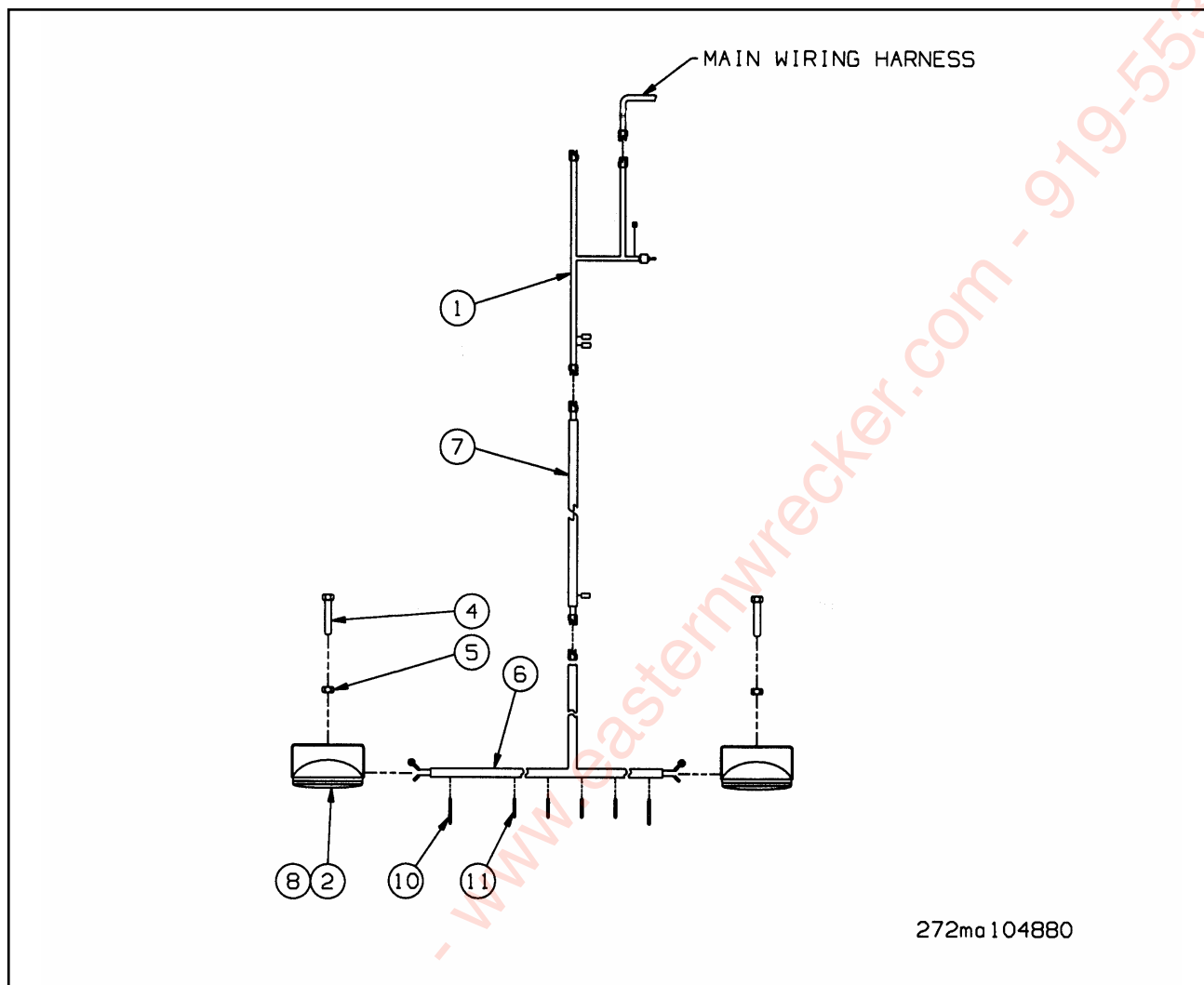
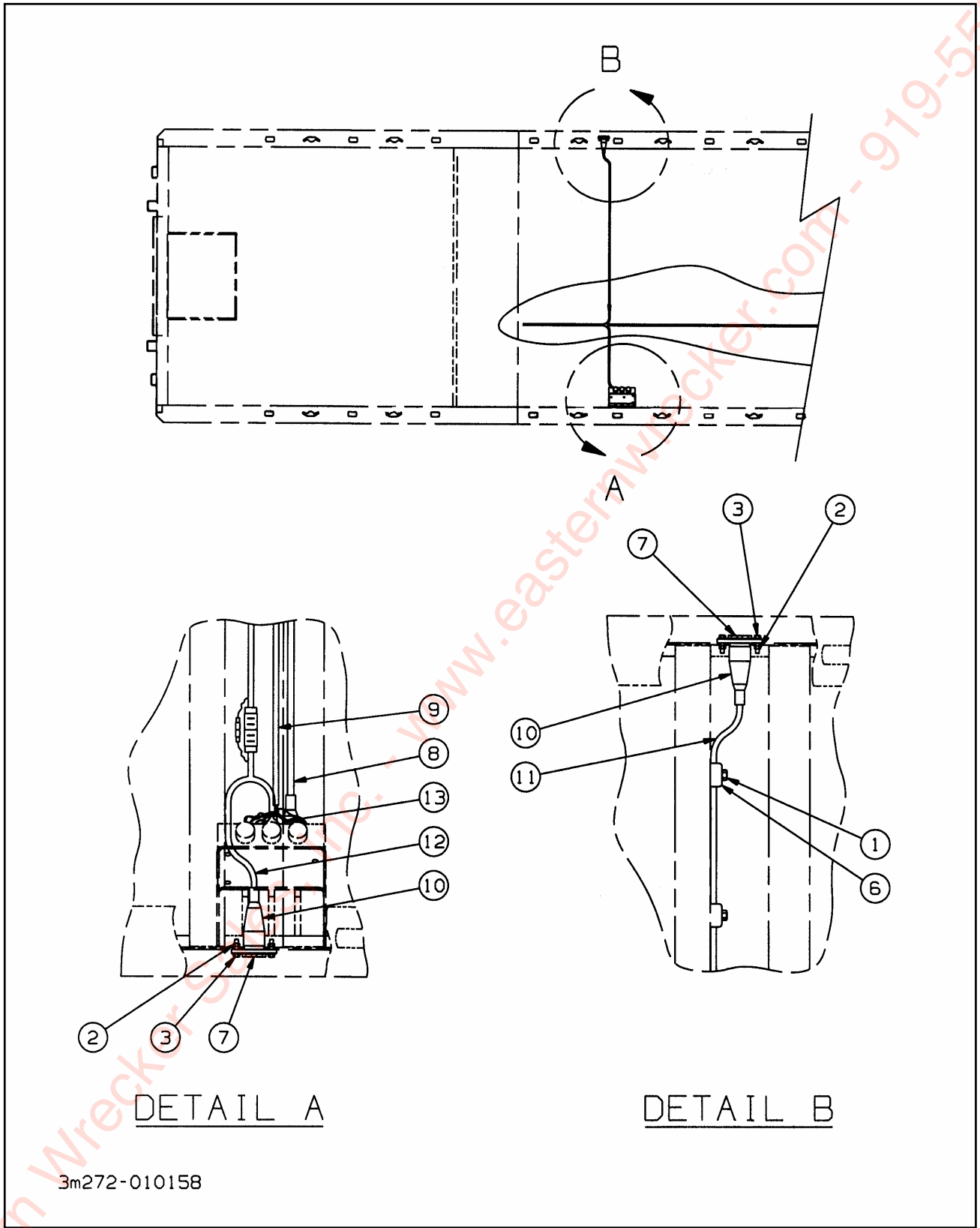


Figure 1-16 Bulkhead Light Assembly (Optional)

BULKHEAD LIGHT ASSEMBLY (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	104880	ELECTRICAL INSTAL., DUAL BULKHEAD LIGHT	
1	101381	HARNESS LIGHT WORK COURTESY	1
2	64181	RECTANGULAR QUARTZ HALOGEN LAMP	1,2*
3	1-796-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	6
4	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	1,2*
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	1,2*
6	3-368-010250	HARNESS BULKHEAD LIGHTS	1
7	3-368-010252	HARNESS BULKHEAD LIGHTS	1
8	STP-147	CONNECTOR BULLET MALE	1,2*
9	3-573-010437	DECAL LIGHT	1
10	1-343-010010	GROMMET 9/16" ID	2
11	1-343-010007	GROMMET	4



3m272-010158

Figure 1-17 Elect. Instl.-Remote Control (Optional)

ELECTRICAL INSTL. - REMOTE CONTROL (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010149-07	ELEC. RMT FUNCT FOR 45' - 48', STREET AND CURB	
	3-272-010149-08	ELEC. RMT FUNCT FOR 51' - 53', STREET AND CURB	
	3-272-010158-01	FRONT REMOTE OUTLET STREET SIDE	
	3-272-010158-02	FRONT REMOTE OUTLET STREET AND CURB SIDE	
1	1-510-010001	NUT FLANGE LOCK 3/8-16	2,5*
2	1-512-010005-03	NUT HEX LOCK 5/16-18	2,4*
3	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2,4*
4	1-660-010006	SEALANT ELECTRICAL DOW CORNING	A/R
5	1-796-010003-02	TIE STRAP PLASTIC	2,5*
6	2-181-010001	HOSE CLAMP	2
7	3-272-010125	RECEPTACLE 7-POLE	1,2*
8	3-368-010245	HARNESS POWER JUMPER	1
9	3-368-010249-01	HARNESS REAR REMOTE 45' OR 48'	1
	3-368-010249-02	HARNESS REAR REMOTE 50' OR 53'	
10	59W-2-3	RUBBER BOOT	1,2*
11	3-368-010191	HARNESS REAR CURB SIDE 660	1
12	3-368-010246	HARNESS FRONT REMOTE	1
13	3-272-010157	ELECTRICAL ADAPTER CHAIR 1/4 PUSH-ON	6

*FIRST QUANTITY IS FOR THE STREET SIDE REMOTE, SECOND QUANTITY IS FOR THE STREET AND CURB SIDE REMOTE.

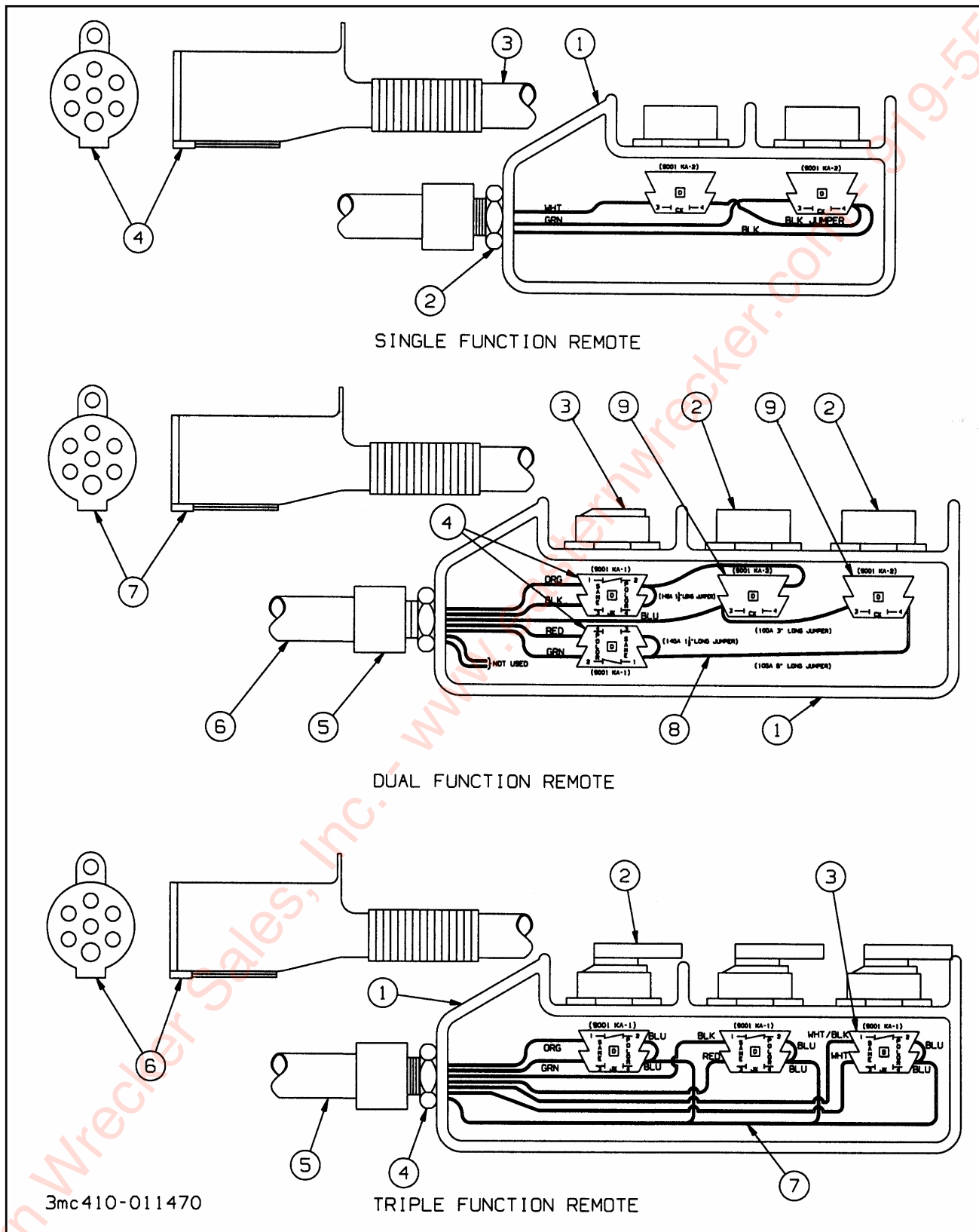


Figure 1-18 Wired Remote Control

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.
	3-209-010004-01	CONTROL REMOTE WINCH/TILT	
	3-209-010004-05	CONTROL REMOTE WINCH/WINCH	
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
	3-573-010391	DECAL, REMOTE WINCH TILT	1
	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	1
	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	1
	100290	DECAL, REMOTE WINCH WINCH	1
		(DECALS NOT SHOWN) (SEE PAGE 1-114)	

WIRED REMOTE CONTROL, TRIPLE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-209-010006-01	CONTROL REMOTE WINCH/TILT UNDERCARRIAGE	
	3-209-010006-03	CONTROL REMOTE WINCH/WINCH/TILT	
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	1
	3-573-010395	DECAL, TILT/WINCH/UNDERCARRIAGE	1
	100289	DECAL, WINCH/WINCH/TILT	1
		(DECALS NOT SHOWN) (SEE PAGE 1-114)	

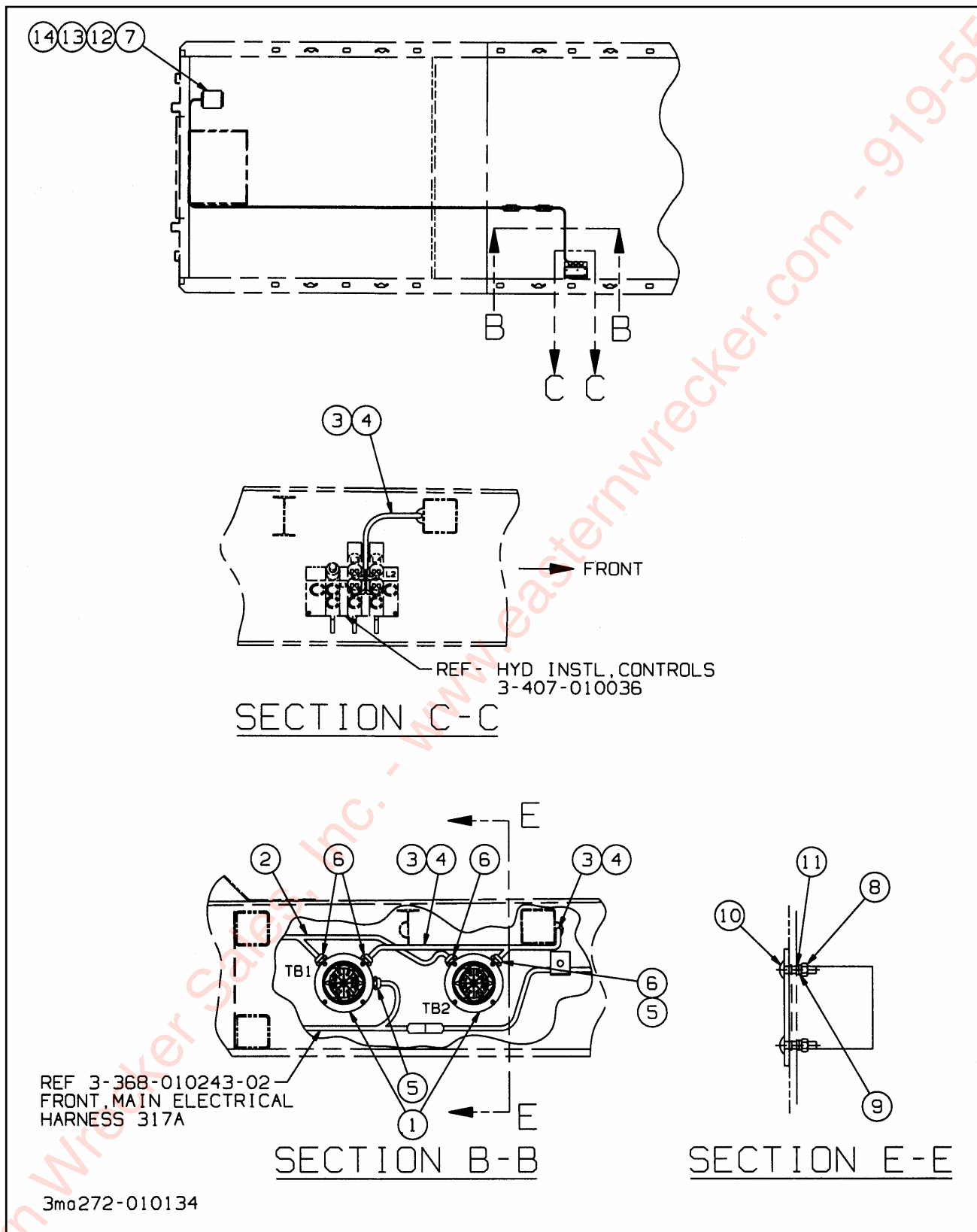


Figure 1-19 Elect. Instl.-Radio Remote (Optional)

ELECTRICAL INSTL. - RADIO REMOTE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-272-010134-01	ELECT INSTL. 4-FUNCT. WINCH/WINCH/TILT/AXLE	
	3-272-010134-03	ELECT INSTL. 3-FUNCT. WINCH/TILT/AXLE	
1	3-113-010003	ELECTRICAL BOX FLANGE MOUNT	2
2	3-153-010014	CABLE ASSEMBLY REMOTE CONTROL	1
3	3-368-010129	HARNESS ASSEMBLY SINGLE REMOTE	1
4	3-368-010125	HARNESS ASSEMBLY DUAL REMOTE	1
5	3-296-010001-1	FITTING ELECTRICAL CORD 3/8 ID	1,2*
6	3-296-010001-2	FITTING ELECTRICAL CORD 1/2 ID	4,3*
7	3-208-010067-03	CONTROL RADIO REMOTE 4 FUNCTION	1
	3-208-010061	CONTROL RADIO REMOTE 3 FUNCTION	1
8	1-512-010007-03	NUT HEX 10-24	8
9	1-861-010034-07	WASHER SPLIT LOCK #10	8
10	1-656-010003051	SCREW ROUND HEAD MACH 10-24 X 3/4	8
11	1-861-010032-04	NUT HEX LOCK 10-24 GRA	8
12	1-656-010003051	SCREW ROUND HEAD MACH 10-24 X 3/4	4
13	1-512-010004-03	NUT HEX LOCK 10-24	8,4*
14	1-861-010032-03	WASHER FLAT #10	4
15	3-272-010023	ELECTRICAL RING #10 W/SEAL 16-14	2

1ST QUANTITY IS FOR THE 4-FUNCTION REMOTE, 2ND QUANTITY IS FOR THE 3-FUNCTION REMOTE.

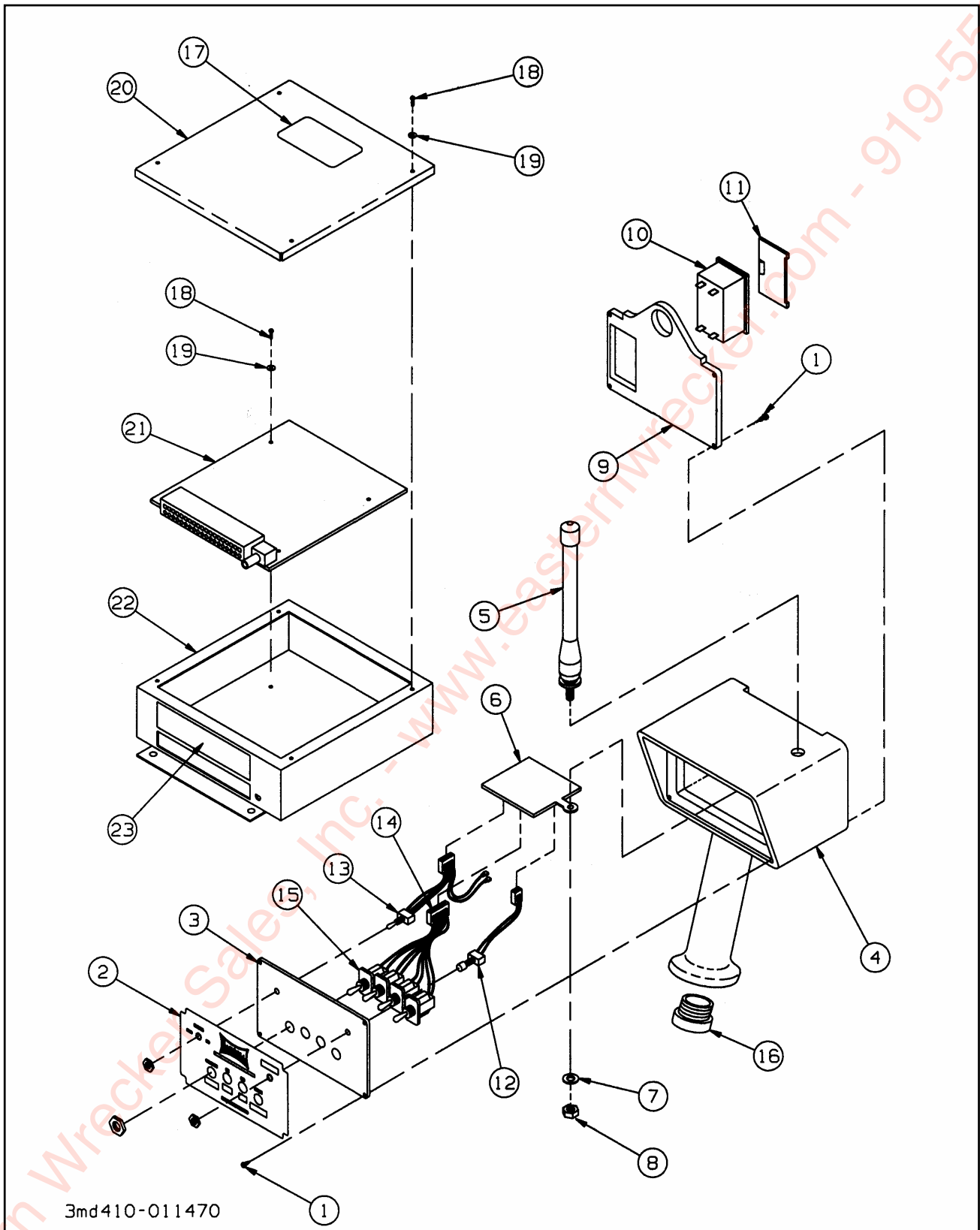


Figure 1-20 Wireless Radio Remote Control

WIRELESS RADIO REMOTE CONTROL

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

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

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

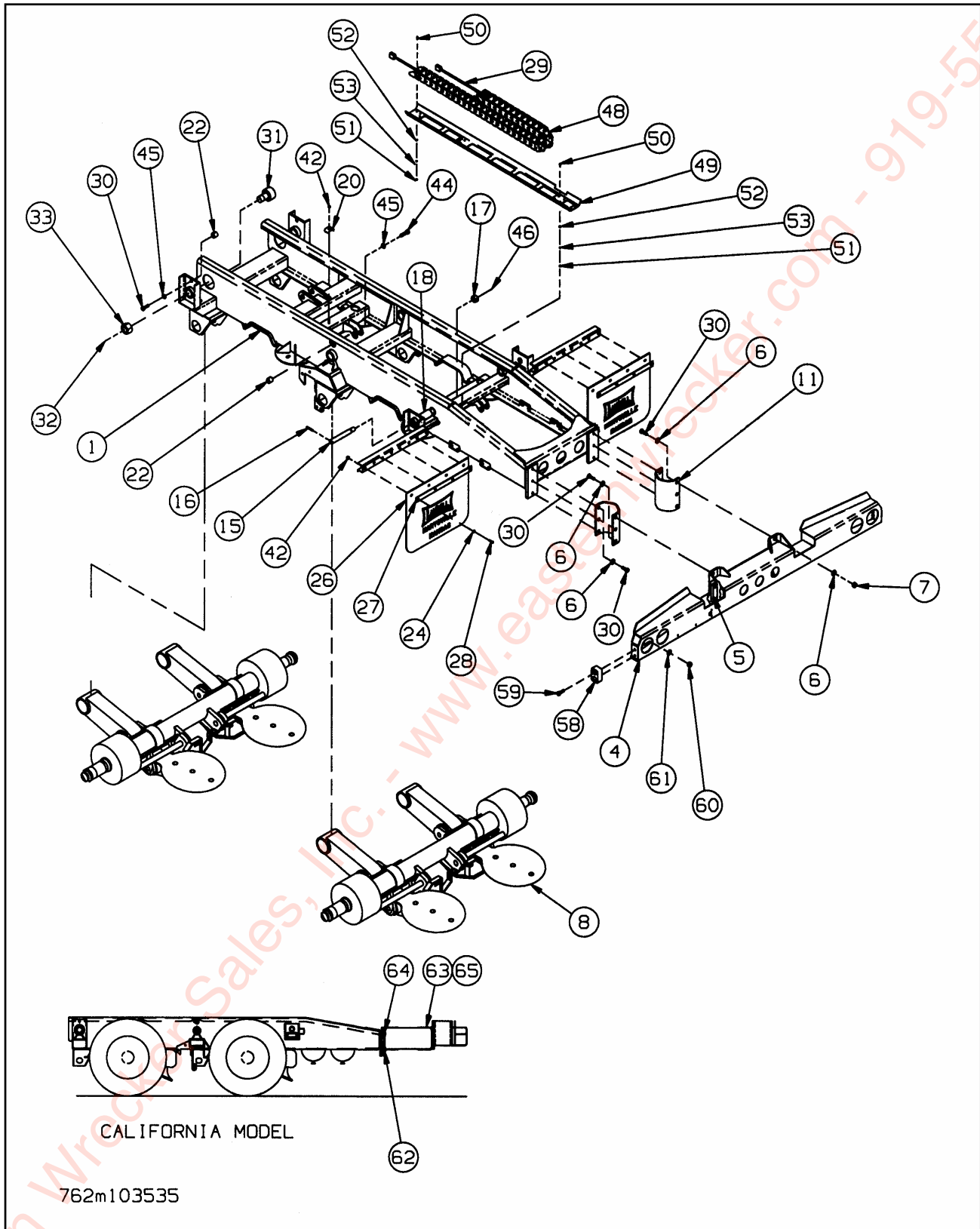
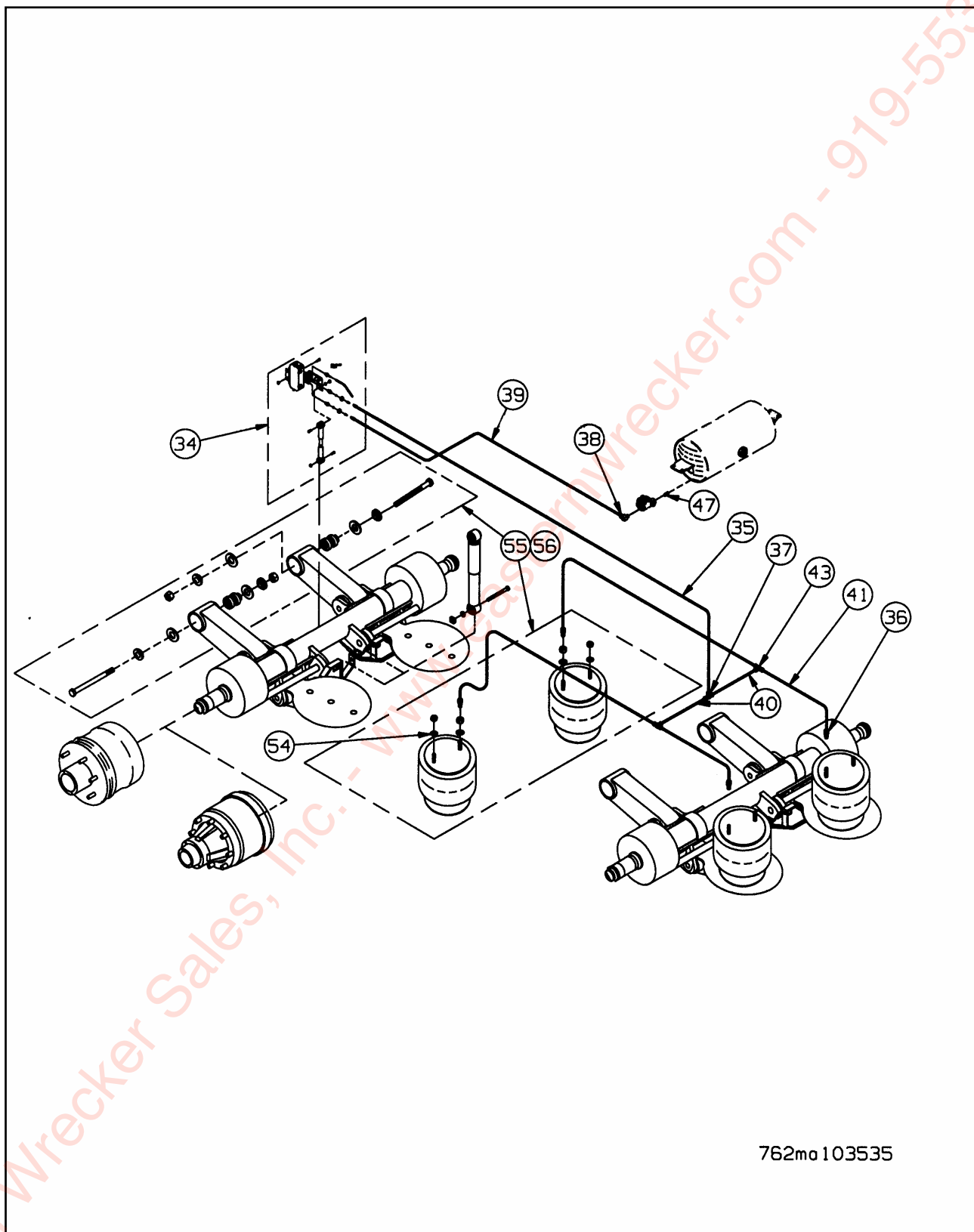


Figure 1-21 Undercarriage Suspension Air Ride
(317B & 319B) (1 of 2)



762mo 103535

Figure 1-22 Undercarriage Suspension Air Ride
(317B & 319B) (2 of 2)

UNDERCARRIAGE ASSEMBLY AIR RIDE (317B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	102778	SUSPENSION ASSY AIR RIDE W/E-CHAIN	
	103535	SUSPENSION ASSY AIR RIDE RLU-228 W/ABS	
1	102382	SUSPENSION WELDMENT RLU-228	1
2	3-256-010006-01	DOCK LEVEL ASSY 40K (NOT SHOWN)(SEE PAGE 1-97)	1
3	3-256-010006-02	DOCK LEVEL ASSY 60K (NOT SHOWN)(SEE PAGE 1-97)	1
4	101712	BUMPER WELDMENT (102")	1
	104157	BUMPER WELDMENT (96")	
5	102283	BAR BUMPER	2
6	622-3511-008	WASHER 3/4 MIL-CARB FL SAE	14
7	1-512-010002-15	NUT HEX LOCK 3/4-10 GRC	2
8	102666	AXLE WELDMENT D2212-SPG-64.5 X 31	2
	102667	AXLE WELDMENT D2212-SPG-70.5 X 31	2
	102702	AXLE WELDMENT D2216-SPG-69 X 31	2
	102703	AXLE WELDMENT D-2512-SPG-70.5 X 31	2
	102705	AXLE WELDMENT D-2512-SPG-78 X 31	2
	102707	AXLE WELDMENT D2516-SPG-69X31	2
	102709	AXLE WELDMENT D2516-SPG-76X31	2
		(FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-61)	
11	101143	MOUNT BUMPER ENERGY PAK	2
15	3-557-010396	PIN REAR ROLLER	2
16	1-647-010004255	PIN SPRING SLOTTED	2
17	1-512-010007-16	NUT HEX 1-1/4-7	2
18	RRT114X6	TUBE ROUND TYPE 5	2
20	2-181-010001	HOSE CLAMP	1
21	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	10
22	3-762-010016	HOLDDOWN CARRIAGE	4
24	1-861-010032-11	WASHER FLAT 3/8W	8
26	3-485-010001	FLAP MUD	2
27	3-762-010017	CLAMP MUD FLAP	2
28	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
29	102836	HARNESS, E-CHAIN ABS	1
30	1-654-010032-4	SCREW HEX HEAD CAP 3/4-10 X 1-3/4 GR8	14
31	3-076-010005	BEARING 4 IN CAMFOLLOWER	4
32	5029	ZERK FITTING	14
33	104034	NUT HEX 2-12 GRB	11
34	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-44)	1
35	1-833-010001	TUBING NYLON 1/4 X 72	1
36	11-297-010007-11	FITTING AIR	4
37	1-297-010010-07	FITTING AIR UNION TEE	1
38	1-297-010008-07	FITTING AIR 90	1
39	1-833-010001	TUBING NYLON 1/4 X 96	1
40	1-833-010001	TUBING NYLON 1/4 X 24	2
41	1-833-010002-3	TUBING NYLON 3/8 X 32	4
42	1-510-010001	NUT FLANGE LOCK 3/8-16	10
43	1-297-010010-04	FITTING AIR UNION TEE	2
44	1-654-010061-07	SCREW HEX HEAD CAP 3/4-10 X 2-1/2 GR5	2
45	1-861-010034-17	WASHER SPLIT LOCK 3/4W	4
46	5000	ZERK FITTING	2
47	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
48	3-755-010189	SUPPORT E-CHAIN	1

UNDERCARRIAGE ASSEMBLY AIR RIDE (317B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0)	A/R
	385-06	E-CHAIN CROSSBAR	A/R
	38-01-075	E-CHAIN SIDE PIECE - LH	A/R
	38-02-075	E-CHAIN SIDE PIECE - RH	A/R
49	3-821-010005	TRAY CAT TRACK	1
50	1-654-010158-1	SCREW RD HEAD SQ NECK 1/4-20 X 3/4	11
51	1-512-010007-05	NUT HEX 1/4-20	11
52	1-861-010032-07	WASHER FLAT 1/4W	11
53	1-861-010034-09	WASHER SPLIT LOCK 1/4	11
54	1-861-010032-15	WASHER FLAT 1/2W	4
55	102363	SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-47)	2
56	102364	SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-47)	2
57	103815	AIR SYS ASSY ABS (NOT SHOWN) (SEE PAGE 1-55)	1
	3-011-010006-02	AIR SYS ASSY SPG BRAKE (NOT SHOWN) (SEE PAGE 1-57)	1
58	104045	EXTENSION CANADIAN BUMPER	2
59	1-654-010055-05	SCREW HEX HEAD 1/2-13 X 2 GR5	4
60	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
61	1-861-010032-15	WASHER FLAT 1/2W	4
62	100941	SCREW HEX HEAD CAP 3/4-10 GR8	2
63	104463	EXTENSION WELDMENT BUMPER (CALIFORNIA MODEL ONLY)	1
64	104483	SCREW HEX HEAD CAP 3/4-10X2-1/2 GR8	4
65	3-368-010067	WIRE HARNESS EXTENSION BVRTL	1

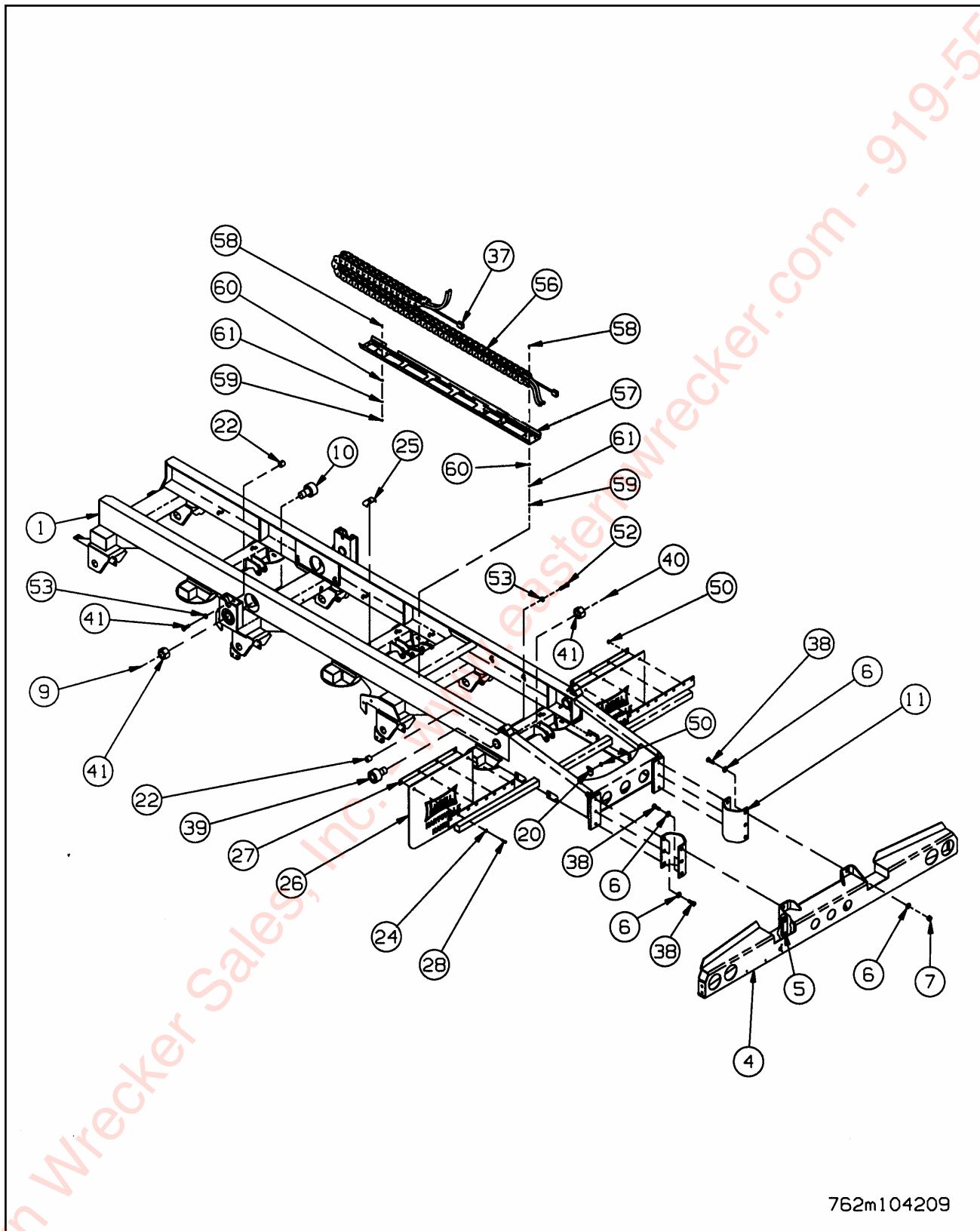


Figure 1-23 Undercarriage Suspension Air Ride (318B)
(1 of 2)

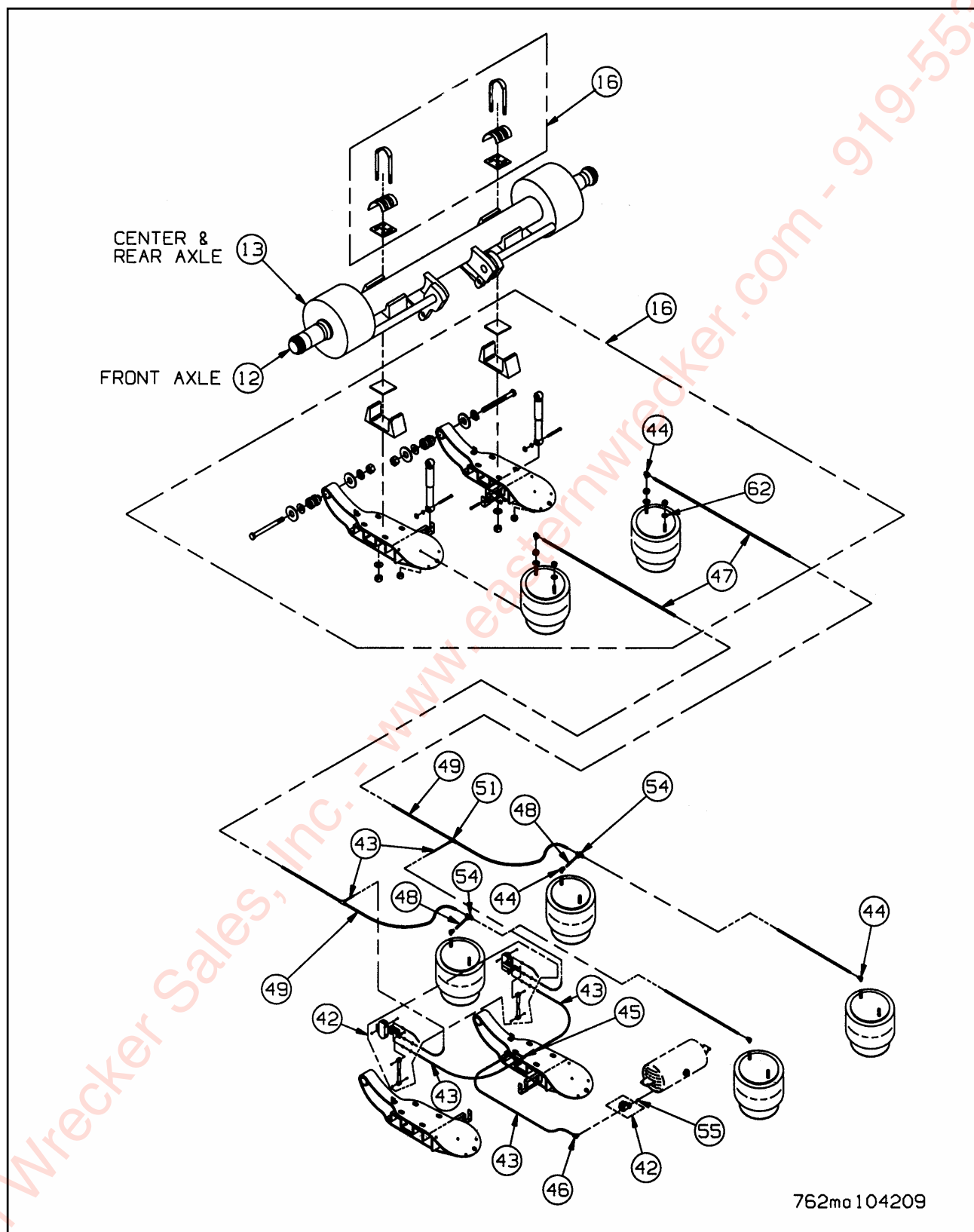


Figure 1-24 Undercarriage Suspension Air Ride (318B)
(2 of 2)

UNDERCARRIAGE ASSEMBLY AIR RIDE (318B)

ITEM	PART NO.	DESCRIPTION	QTY.
	104209	SUSPENSION ASSEMBLY 317A-3AX AR-45	
	104222	SUSPENSION ASSEMBLY 317A-3AX RLU-228	
1	104200	SUSPENSION WELDMENT AR-45 (BEFORE 10/98)	1
	104218	SUSPENSION WELDMENT RLU-228 (AFTER 10/98)	1
2	3-256-010003-02	DOCK LEVEL ASSEMBLY 660 HD A/R (NOT SHOWN)(SEE PAGE 1-101)	1
	104433	DOCK LEVEL ASSEMBLY 2-60K (NOT SHOWN)(SEE PAGE 1-99)	1
4	101712	BUMPER WELDMENT (102')	1
	104157	BUMPER WELDMENT (96")	1
5	102283	BAR BUMPER	2
6	622-3511-008	WASHER 3/4-10 MIL-CARB FL	14
7	1-512-010002-15	NUT HEX 3/4-10 MIL-CARB	2
9	110-4950	ZERK FITTING	4
10	3-076-010015	CAM FOLLOWER	2
11	101143	MOUNT BUMPER ENERGY PAK	2
12	3-042-010114-03	AXLE WELDMENT A/R-45 SER 64.5 (96")	1
	3-042-010114-01	AXLE WELDMENT A/R-45 SER 70.5 (102')	1
	3-042-010151-01	AXLE WELDMENT A/R-45 X 16.5 SER (102')	1
	104220	AXLE WELDMENT D2512-SER-64.5 X 31 (96")	1
	102704	AXLE WELDMENT D2512-SER-70.5 X 31 (102")	1
	102708	AXLE WELDMENT D2516-SER-69 X 31 (102") (FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-61)	1
13	3-042-010114-04	AXLE WELDMENT A/R-45 SPG 64.5 (96")	2
	3-042-010114-02	AXLE WELDMENT A/R-45 SPG 70.5 (102')	2
	3-042-010151-02	AXLE WELDMENT A/R-45 X 16.5 SPG (102')	2
	104219	AXLE WELDMENT D2512-SPG-64.5 X 31 (96")	2
	102703	AXLE WELDMENT D2512-SPG-70.5 X 31 (102")	2
	102707	AXLE WELDMENT D2516-SPG-69 X 31 (102") (FOR AXLE WELDMENT BREAKDOWNS, SEE PAGE 1-61)	2
16	3-762-010554	SUSPENSION HANGER ASSEMBLY (SEE PAGE 1-49)	3
	102363	SUSP. ADJ. RLU-228-3.5 (16.5 BRAKES)(SEE PAGE 1-47)	
	102364	SUSP. ADJ. RLU-228-5.5 (12.25 BRAKES)(SEE PAGE 1-47)	
20	2-181-010001	HOSE CLAMP	1
21	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	10
22	3-762-010016	HOLDDOWN UNDERCARRIAGE	4
24	1-861-010032-11	WASHER FLAT 3/8W	8
25	103817	HOSE CLAMP	2
26	3-485-010001	MUD FLAP	2
27	3-762-010017	CLAMP MUD FLAP	2
28	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
37	102836	HARNESS ASSEMBLY E-CHAIN	1
38	1-654-010032-4	SCREW HEX HEAD CAP 3/4-10 X 1-3/4 GR8	14
39	3-076-010005	BEARING CAMFOLLOWER	2
40	5029	ZERK FITTING	2
41	104034	NUT HEX 2-12 GRB	4
42	AC-6400	AIR CONTROL KIT NEWAY (SEE PAGE 1-45)	1
	102732	AIR CONTROL KIT NEWAY (SEE PAGE 1-44)	1
43	1-833-010001	TUBING NYLON	A/R
44	1-297-010008-18	FITTING AIR 90	6

UNDERCARRIAGE ASSEMBLY AIR RIDE (318B)

ITEM	PART NO.	DESCRIPTION	QTY.
45	1-297-010010-01	FITTING AIR UNION TEE	1
46	1-297-010008-07	FITTING AIR 90	1
47	1-833-010002	TUBING NYLON 3/8 X 66	2,1*
48	1-833-010002	TUBING NYLON 3/8 X 6	2
49	1-833-010002-3	TUBING NYLON	4
50	1-510-010001	NUT FLANGE LOCK 3/8-16	10,9*
51	1-297-010010-04	FITTING AIR UN/TEE	2
52	1-654-010061-07	SCREW HEX HEAD CAP 3/4-10 X 2-1/2 GR5	2
53	1-861-010034-17	WASHER SPLIT LOCK	4
54	1-297-010010-03	FITTING AIR UN/TEE	2
55	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
56	3-755-010189	SUPPORT E-CHAIN	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0)	A/R
	385-06	E-CHAIN CROSSBAR	A/R
	38-01-075	E-CHAIN SIDE PIECE - LH	A/R
	38-02-075	E-CHAIN SIDE PIECE - RH	A/R
57	3-821-010005	TRAY CAT TRACK	1
58	1-654-010158-1	SCREW ROUND HEAD SQUARE NECK 1/4-20 X 3/4 GR5	11
59	1-512-010007-05	NUT HEX 1/4-20 GRB	11
60	1-861-010032-07	WASHER FLAT 1/4	11
61	1-861-010034-09	WASHER SPLIT LOCK 1/4	11
62	1-861-010032-15	WASHER FLAT 1/2W	6
66	104472	AIR SYSTEM ASSEMBLY ABS (NOT SHOWN) (SEE PAGE 1-59)	1

* 1ST QUANTITY IS FOR P/N 104209; 2ND QUANTITY IS FOR P/N 104222.

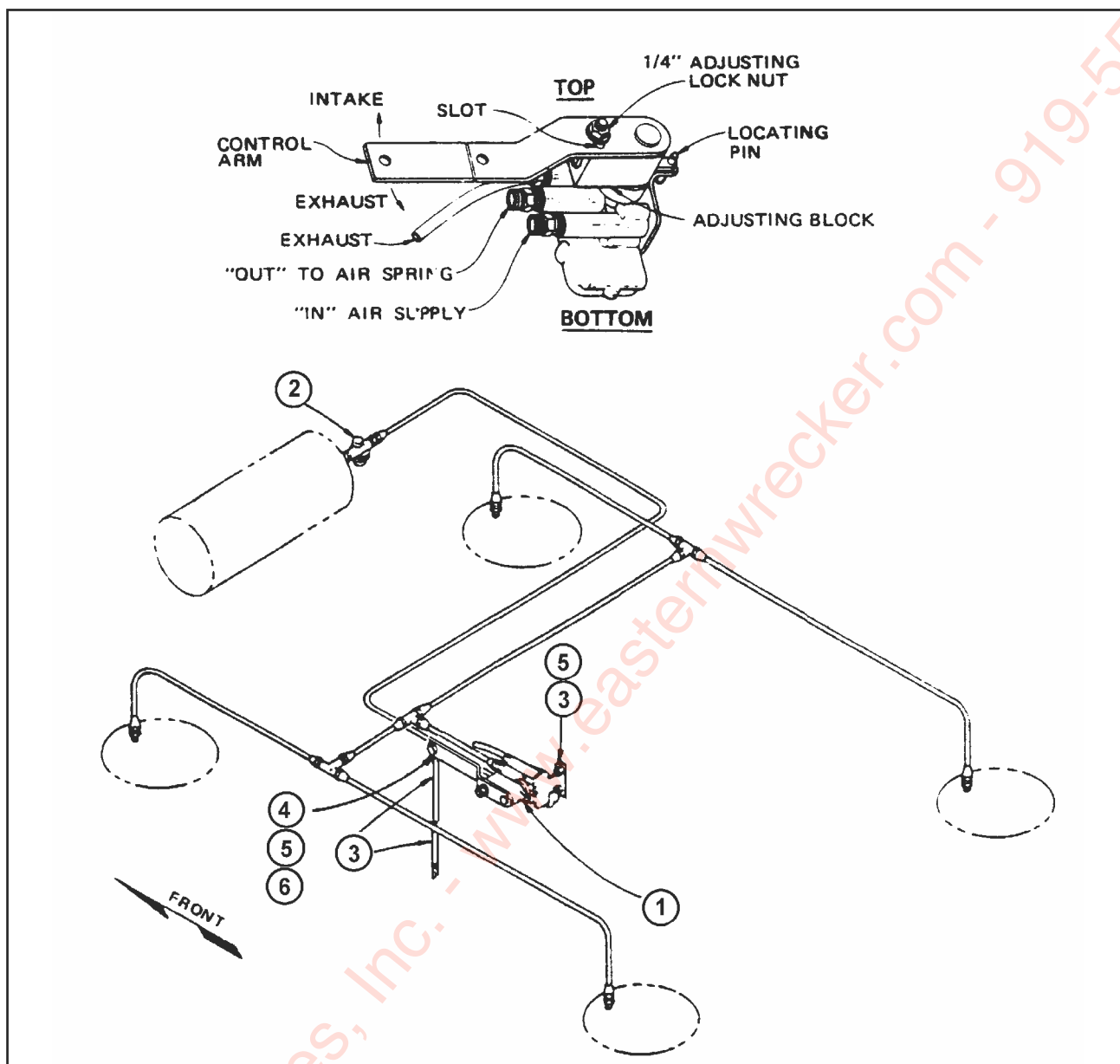


Figure 1-25 Air Control Kit, RLU-228

AIR CONTROL KIT RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE (INCLUDES HARDWARE BAG)	1
	900-54-186	HEIGHT CONTROL VALVE (VALVE ONLY)	1
2	905 54 107	AIR PRESSURE PROTECTION VALVE & FILTER	1
3	111021	SRK - 167 KIT (ADJ. LINK ASSY)	1
4	1-654-010047-04	CAP SCREW 1/4-20 X 3/4	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	941 00 119	DECAL (OPERATING)	1
7	941 00 466	HEIGHT CONTROL VALVE INSTRUCTIONS (NOT SHOWN)	1

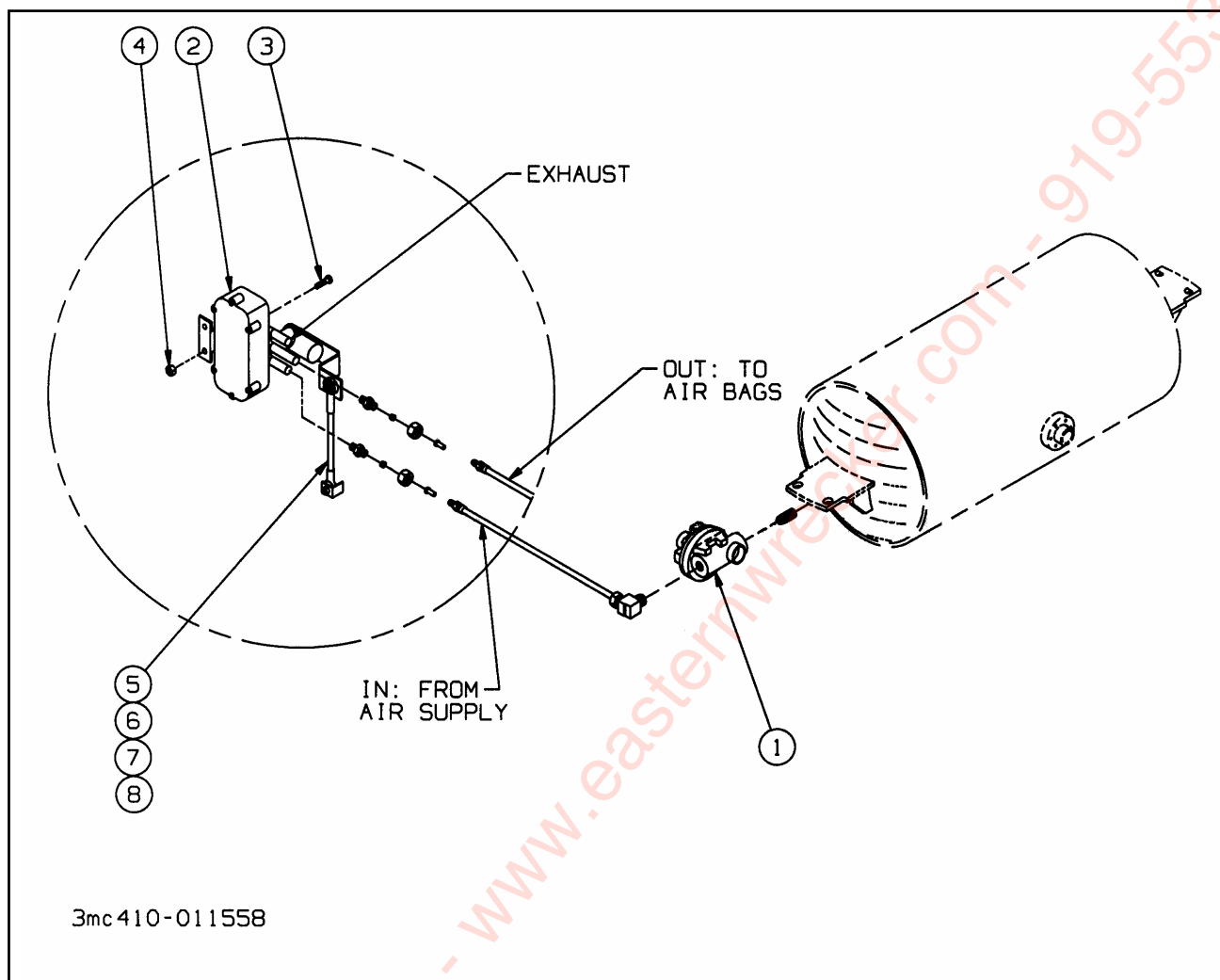


Figure 1-26 Air Control Kit, AR-45

AIR CONTROL KIT AR-45

ITEM	PART NO.	DESCRIPTION	QTY.
	AC-6400	AIR CONTROL KIT NEWAY	
1	900-54-107	PRESSURE PROTECTION VALVE AND FILTER	1
2	900-54-113	HEIGHT CONTROL VALVE (CAN BE ORDERED AS P/N 3-843-010034)	2
3	930-02-349	CAP SCREW 1/4-20 X 3/4	4
4	934-00-060	NUT LOCKING	8
5	*905-54-125	LINK ROD ASSEMBLY - 5-1/4"	2
6	939-00-224	CAP SCREW, SHOULDER	4
7	939-00-119	WASHER 1/4	4
8	936-00-118	WASHER 5/16	4
9	941-00-463	INSTRUCTION - LINK ASSEMBLY SHEET(NOT SHOWN)	1

* NOTE: A COMPLETE LINK KIT P/N SRK-167 CAN BE ORDERED, BUT REQUIRES CUTTING 13-1/2" LINK ROD TO 5-1/4" LONG.

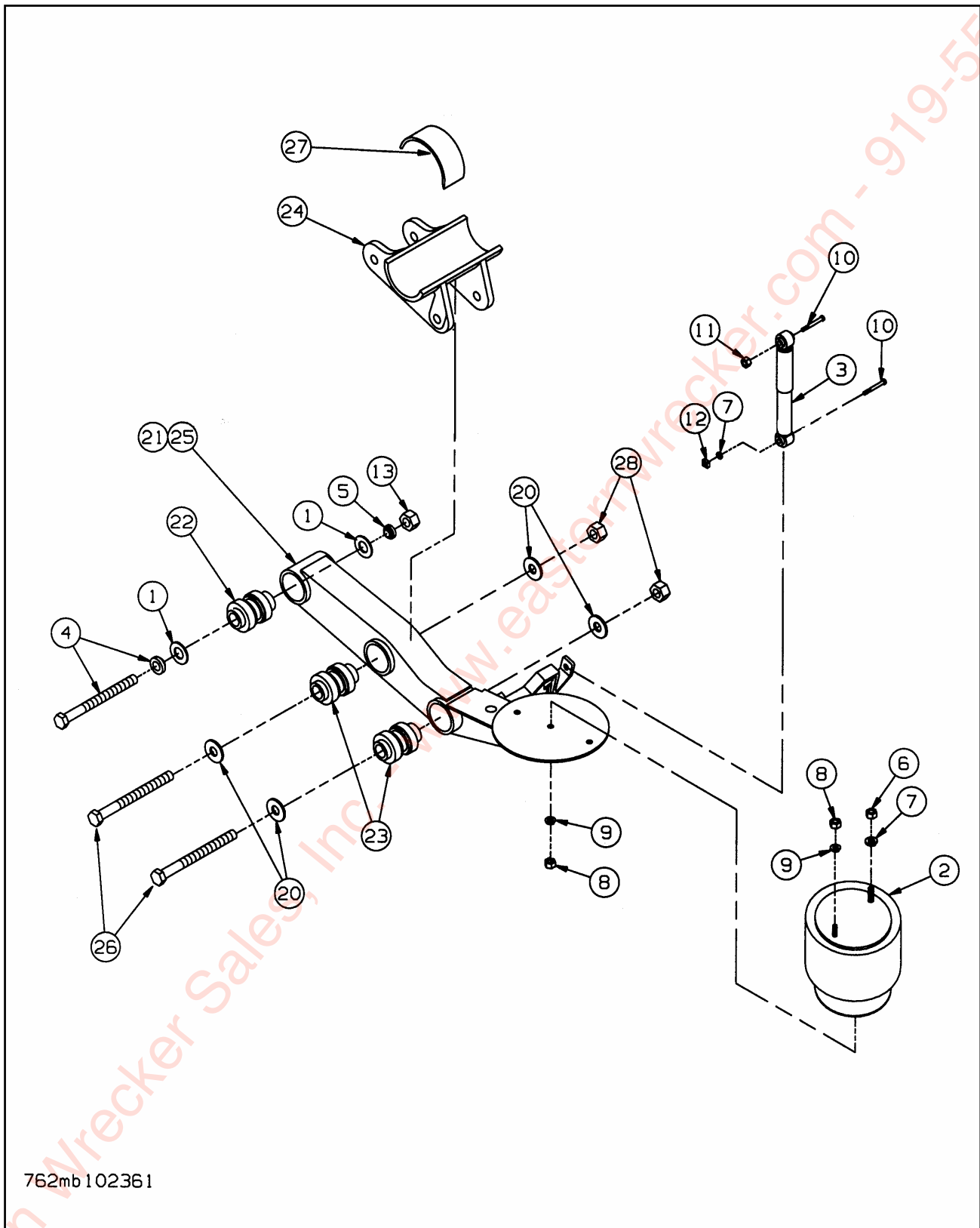


Figure 1-27 Suspension Hanger Assembly RLU-228

SUSPENSION HANGER RLU-228

ITEM	PART NO.	DESCRIPTION	QTY.
	102363	SUSPENSION ADJ. RLU-228-3.5	
	102364	SUSPENSION ADJ. RLU-228-5.5	
	102361	SUSPENSION BEAM RLU-228 (INCLUDES ITEMS 20-28)	
1*	90036117	FLAT WASHER	4
2	90557129	AIR SPRING ASSEMBLY	2
3	90075040	SHOCK	2
4*	90508009	ALIGNMENT BUSHING ASSEMBLY (CONSISTS OF:)	2
	93201057	ROD BOLT	1
	90008184	ALIGN BLOCK	1
5*	90008186	ALIGNMENT BLOCK	2
6*	93400149	3/4-16 HEX NUT GR8	2
7*	93600077	3/4 LOCK WASHER	4
8*	93400136	1/2-13 HEX NUT	4
9*	93600072	1/2 LOCK WASHER	4
10*	93003597	3/4-10 X 3-1/2 CAP SCREW	4
11*	93400367	3/4-10 LOCK NUT	2
12	93400367	3/4-10 SQUARE NUT	2
13*	93454038	1-1/8 - 7 LOCK NUT	2
14	90054038	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
	11005053	FASTENER KIT (INCLUDES 1,4-11,13,15)	
20	90036177	FLAT WASHER	8
21	90516600	EQUALIZING BEAM ASSEMBLY LH	1
22	90008139	RUBBER BUSHING (FRONT PIVOT)	2
23	90008149	RUBBER BUSHING (AXLE CONNECTION)	4
24	90001200	AXLE ADAPTER ASSEMBLY	2
25	90516601	EQUALIZING BEAM ASSEMBLY RH	1
26	93201051	HEX HEAD SCREW 1-1/8-7 X 8-1/2	4
27	90025288	SAFETY STRAP	2
28	93400506	LOCK NUT 1-1/8-7	4

*PARTS ARE IN KIT FASTENER P/N 11005053.

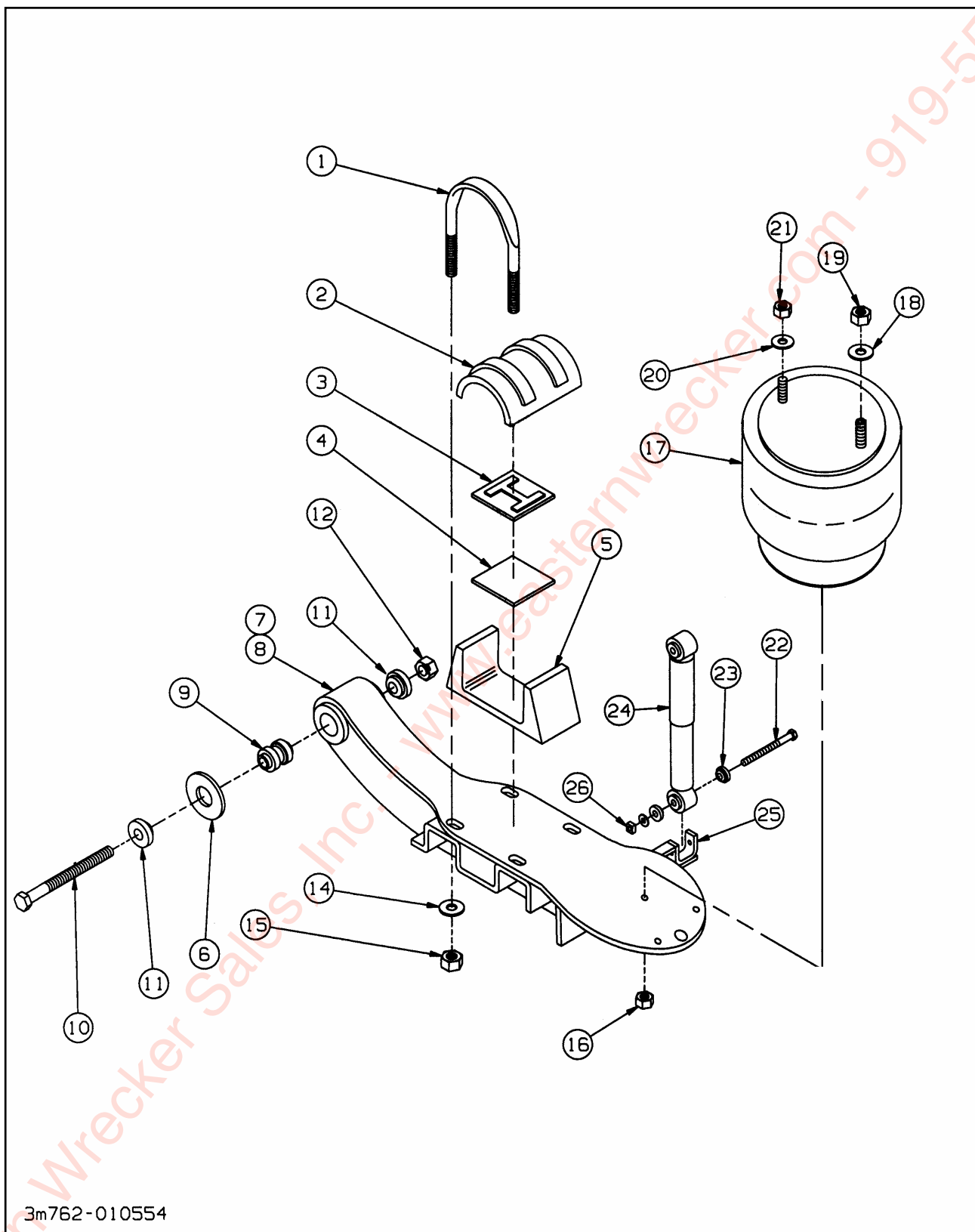


Figure 1-28 Air Ride Suspension AR-45

AIR RIDE SUSPENSION AR-45

ITEM	PART NO.	DESCRIPTION	QTY.
	3-762-010554	SUSPENSION HANGER ASSEMBLY AR-45	
1	900 41 878	U- BOLT 1" - 8 X 9	4
2	905 10 032	AXLE CAP 5"	2
3	900 28 047	RUBBER WRAPPER 5" RD	2
4	900 28 075	STEEL/RUBBER PAD	2
5	900 01 078	BEAM SEAT	2
6	900 36 140	SPACER WASHER	4
7	905 15 857	EQUALIZING BEAM ASSEMBLY, LH	1
8	905 15 858	EQUALIZING BEAM ASSEMBLY, RH	1
9	900 08 139	BUSHING	2
10	932 01 046	CAP SCREW 1-1/2" - 7	2
11	900 08 141	ALIGNMENT BUSHING	2
12	939 00 165	SMART NUT ASSEMBLY, 1-1/8 - 7	2
13	939 00 164	RING (MUST BE USED WITH ITEM 11)	2
14	939 00 027	FLAT WASHER, 1"	8
15	934 00 502	LOCK NUT, 1" - 8	8
16	934 00 492	LOCK NUT, 3/4" - 8	4
17	905 57 023	AIR SPRING ASSEMBLY	2
18	936 00 077	LOCK WASHER, 1"	4
19	934 00 149	HEX NUT, 3/4"	2
20	936 00 072	LOCK WASHER, 1/2"	2
21	934 00 136	HEX NUT, 1/2" - 13	2
22	930 03 599	CAP SCREW, 3/4" - 10 X 3-1/2"	4
23	905 08 004	REPLACEMENT BUSHING (4 PER SHOCK ABSORBER)	8
24	900 44 162	SHOCK ABSORBER	2
25	905 19 425	LOWER SHOCK BRACKET	2
26	934 00 367	SQUARE NUT, 3/4" - 10	2

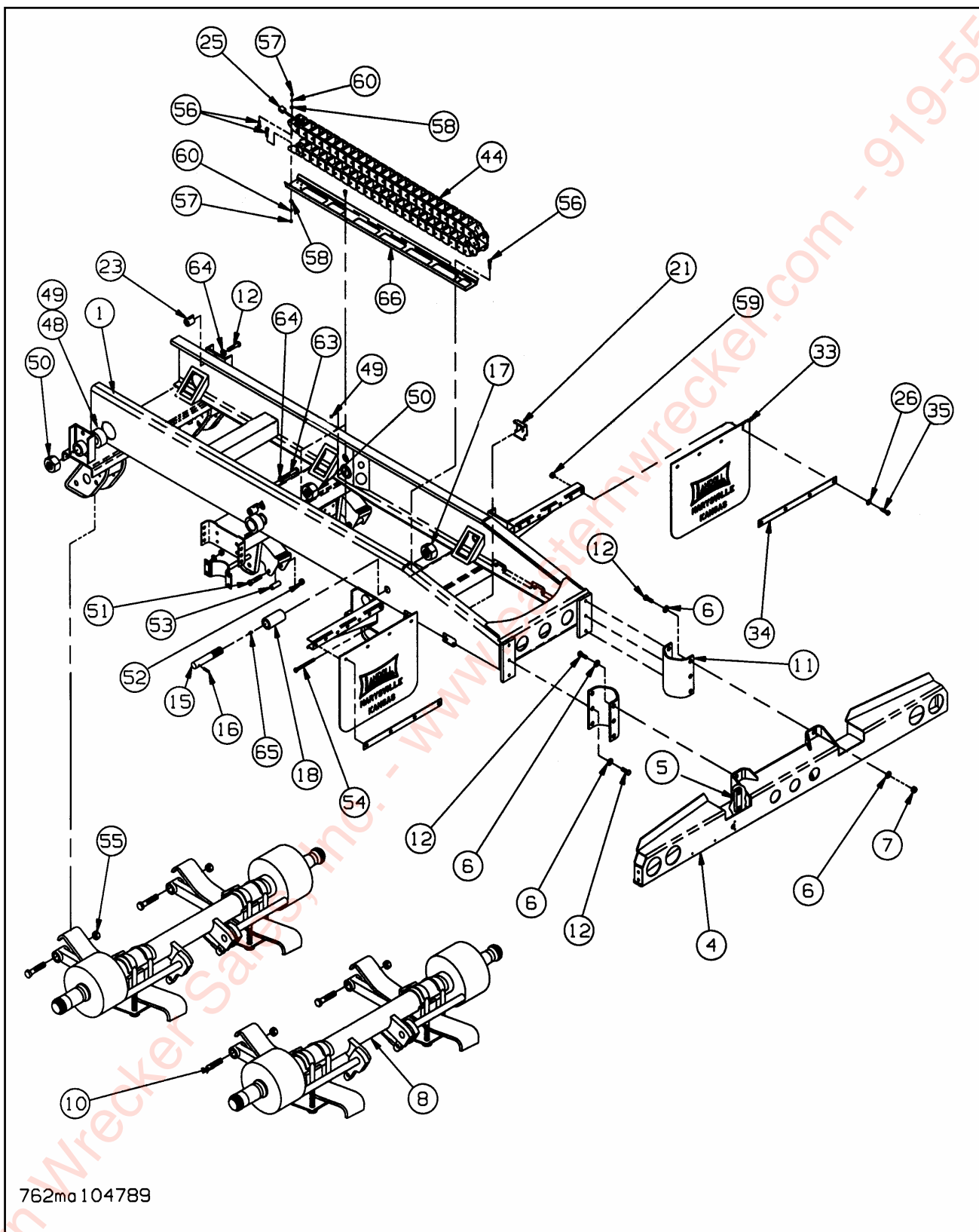


Figure 1-29 Undercarriage Assembly Spring Ride
(317B & 319B)

UNDERCARRIAGE ASSY SPRING RIDE (317B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	104789	SUSPENSION ASSEMBLY SPRING RIDE ABS	
1	104788	SUSPENSION WELDMENT	1
2	3-256-010006-04	DOCK LEVELER ASSEMBLY 40K (NOT SHOWN) (SEE PAGE 1-103)	1
4	101712	BUMPER WELDMENT 102	1
	104157	BUMPER WELDMENT 96	1
5	102283	BAR BUMPER E/P TAPPED	2
6	622-3511-008	WASHER - 3/4 MIL-CARB FL SAE	14
7	1-512-010002-15	NUT HEX LOCK 3/4-10 GRC	2
8	3-762-010563-3	SUSPENSION ASSEMBLY 70-1/2 (SEE PAGE 1-53)	2
	3-762-010563-4	SUSPENSION ASSEMBLY 64-1/2 (SEE PAGE 1-53)	2
9	103815	AIR SYSTEM ABS (NOT SHOWN) (SEE PAGE 1-55)	1
10	0001-08	TORQUE ARM BOLT 7/8-14 X 5-1/4 GR5	4
11	101143	MOUNT BUMPER ENERGY PAK	2
12	1-654-010032-4	SCREW HEX HEAD CAP 3/4-10 X 1-3/4 GR8	14
15	3-557-010396	PIN REAR ROLLER	2
16	1-647-010004255	PIN SPRING SLOTTED	2
17	1-512-010007-16	NUT HEX 1-1/4-7	2
18	RRT114X6	TUBE ROUND	2
20	10403	GROMMET MOUNT	1
21	2-181-010001	HOSE CLAMP	1
22	1-796-010004-02	TIE STRAP PLASTIC (NOT SHOWN)	6
23	3-762-010016	HOLD DOWN UNDERCARRIAGE	4
25	102836	HARNESS ASSEMBLY E-CHAIN ABS	1
26	1-861-010032-11	WASHER FLAT 3/8W	8
33	3-485-010001	MUD FLAP	2
34	3-762-010017	CLAMP MUD FLAP	2
35	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
44	3-755-010189	SUPPORT E-CHAIN	1
	3-755-010189-1	E-CHAIN LINK ASSEMBLY (38-06-075-0)	A/R
	385-06	E-CHAIN CROSSBAR	A/R
	38-01-075	E-CHAIN SIDE PIECE - LH	A/R
	38-02-075	E-CHAIN SIDE PIECE - RH	A/R
48	3-076-010005	CAM FOLLOWER	4
49	5029	ZERK FITTING	4
50	104034	NUT HEX 2-12 GRB	4
51	0001-04	HEX HEAD CAP SCREW 5/8-18 X 4-1/2	4
52	0002-07	LOCKNUT 5/8-18	6
53	0741-01	SPRING ROLLER	6
54	0001-02	HEX HEAD CAP SCREW 5/8-18 X 5-1/8	4
55	0002-12	FLANGED LOCKNUT 7/8-14	4
56	1-654-010158-1	SCREW RD HD SQ NCK 1/4-20 X 3/4 GR5	11
57	1-515-010007-05	NUT HEX 1/4-20	11
58	1-861-010032-07	WASHER FLAT 1/4	11
59	1-510-010001	NUT FLANGE LOCK 7/8-14	10
60	1-861-010034-09	WASHER SPLIT LOCK 1/4	11
63	1-654-010061-07	SCREW HEX HEAD CAP 3/4-10 X 2-1/2 GR5	2
64	1-861-010034-17	WASHER SPLIT LOCK 3/4	4
65	5000	ZERK FITTING 1/8	2
66	3-821-010005	TRAY CAT TRACK	1

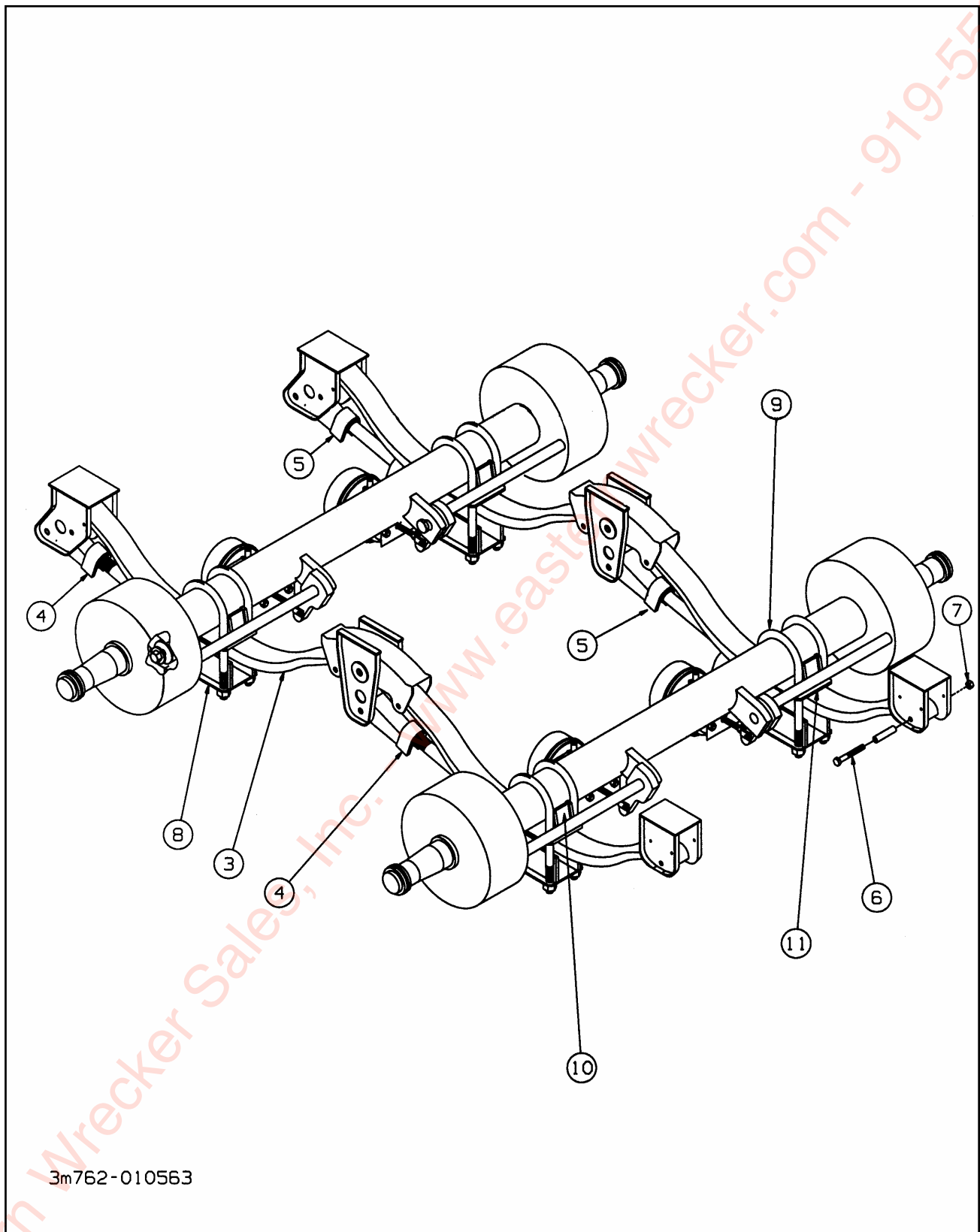


Figure 1-30 Spring Ride Suspension

SPRING RIDE SUSPENSION

ITEM	PART NO.	DESCRIPTION	QTY.
	3-762-010563	SUSPENSION ASSEMBLY SPRING RIDE	
3*	3-720-010030	SPRING MONO LEAF HI ARCH	2
4*	1035-20	ADJUSTABLE TORQUE ARM	1
5*	0075-20	RIGID TORQUE ARM	1
6*	0001-08	BOLT 7/8-14 X 5-1/4 GR5	2
7*	0002-12	LOCKNUT 7/8-14	10
8*	0508-00	BOTTOM PLATE SINGLE LEAF	2
9*	0102-13	U-BOLT 13" LENGTH	4
10*	0647-01	AXLE SEAT 1" HIGH SINGLE LEAF	2
11	0375-00	DELRIN LINER SINGLE LEAF	2
13	3-042-010130-01	AXLE 64-1/2 12-14 X 7-1/2 BRAKE SPG BRAKE 22.5K (SEE PAGE 1-61)	1
14	3-042-010130-02	AXLE 70-1/2 12-14 X 7-1/2 BRAKE SPG BRAKE 22.5K (SEE PAGE 1-61)	1

*THESE ARE PARTS OF KIT NO. 3-432-010006.

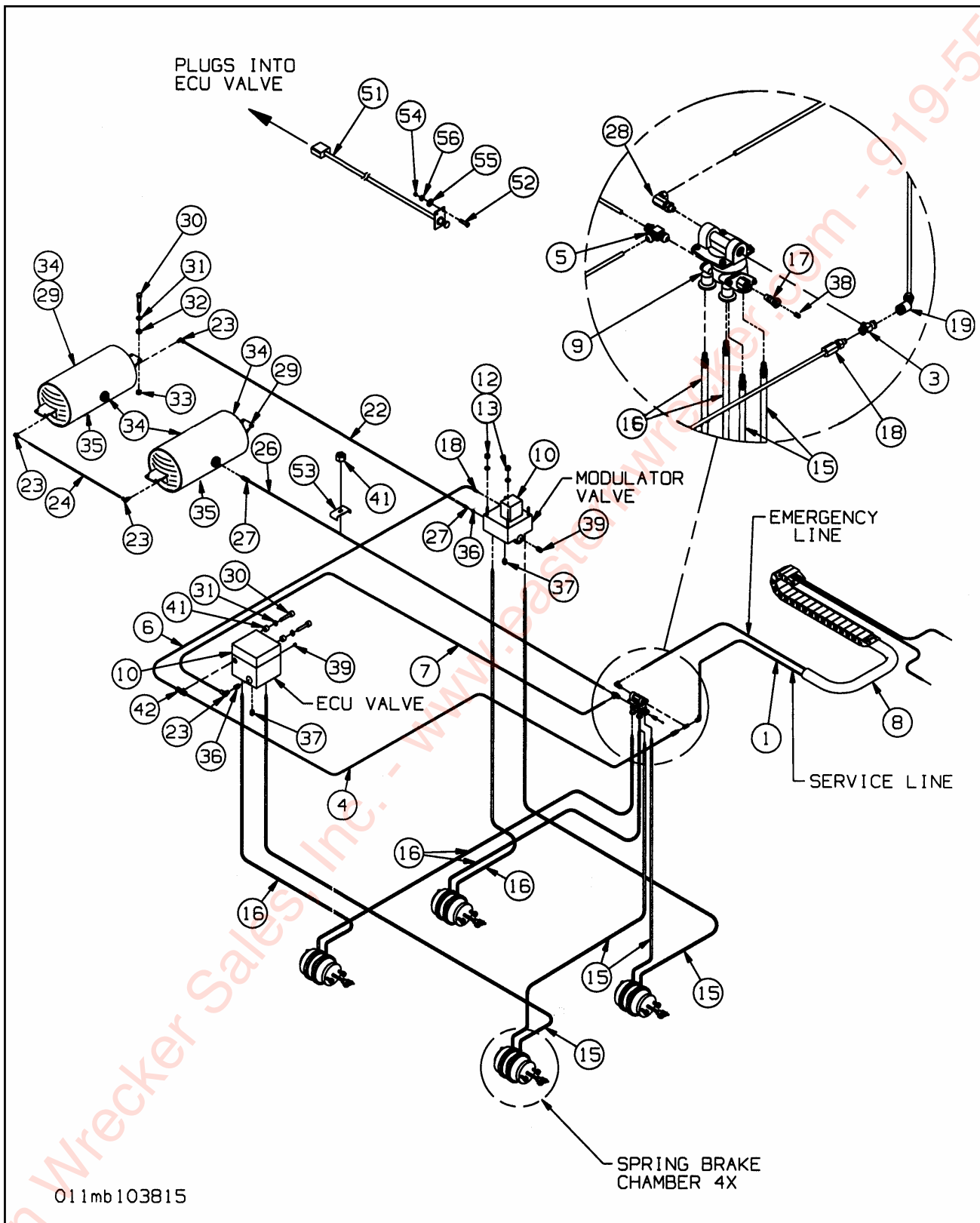


Figure 1-31 Air Brake System w/ ABS (Tandem Axle)

AIR BRAKE SYSTEM W/ ABS (TANDEM AXLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	103815	AIR SYSTEM ABS, TANDEM	
1	100949	HOSE AIR 222	2
3	1-297-010017-03	FITTING AIR BR TEE	1
4	1-833-010002024	TUBING NYLON 24	1
5	1-297-010011-06	FITTING AIR M/ RUN TEE	1
6	1-833-010002060	TUBING NYLON 60	1
7	1-833-010003008	TUBING NYLON 8	1
8	1-394-010001	HOSE ABRASION SLEEVE X 2	4
9	758-181	VALVE RELAY EMERGENCY	1
10	101420	BRAKE KIT ROCKWELL ABS 4S/2M (SEE PAGE 1-63)	1
12	1-861-010032-09	WASHER FLAT 5/16W	2
13	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
15	1-384-010038060	HOSE AIR 60	4
16	1-384-010038024	HOSE AIR 24	4
17	55B61	FRAME UNION	1
18	1-297-010007-12	FITTING AIR	2
19	2088-6-6S	ADAPTER 45	1
22	1-833-010003060	TUBING NYLON 60	2
23	1-297-010008-24	FITTING AIR	4
24	1-833-010003010	TUBING NYLON 10	1
26	1-833-010003032	TUBING NYLON 32	1
27	1-297-010007-16	FITTING AIR	2
28	2089-6-6S	ADAPTER 90	1
29	3-780-010002	TANK AIR	2
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	10
31	1-861-010032-11	WASHER FLAT 3/8W	18
32	805-2	STEP BUSHING	16
33	1-512-010005-05	NUT HEX LOCK 3/8-16 GR8	8
34	1-560-010002-04	PLUG PIPE	4
35	56D4	AIR TANK DRAIN COCK	2
36	118-2659-9	BUSHING	2
37	1-560-010002-03	PLUG PIPE	4
38	1-560-010002-02	PLUG PIPE	1
39	1-560-010002-05	PLUG PIPE	2
41	1-510-010001	NUT FLANGE LOCK 3/8-16	3
42	1-297-010015-06	FITTING AIR BR TEE	1
51	101852	DIAGNOSTIC CABLE W/ SWITCH ABS	1
52	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	2
53	103817	CLAMP HOSE	1
54	1-512-010007-05	NUT HEX LOCK 1/4-20	2
55	1-861-010032-07	WASHER FLAT 1/4	2
56	1-861-010034-09	WASHER SPLIT LOCK 1/4	2

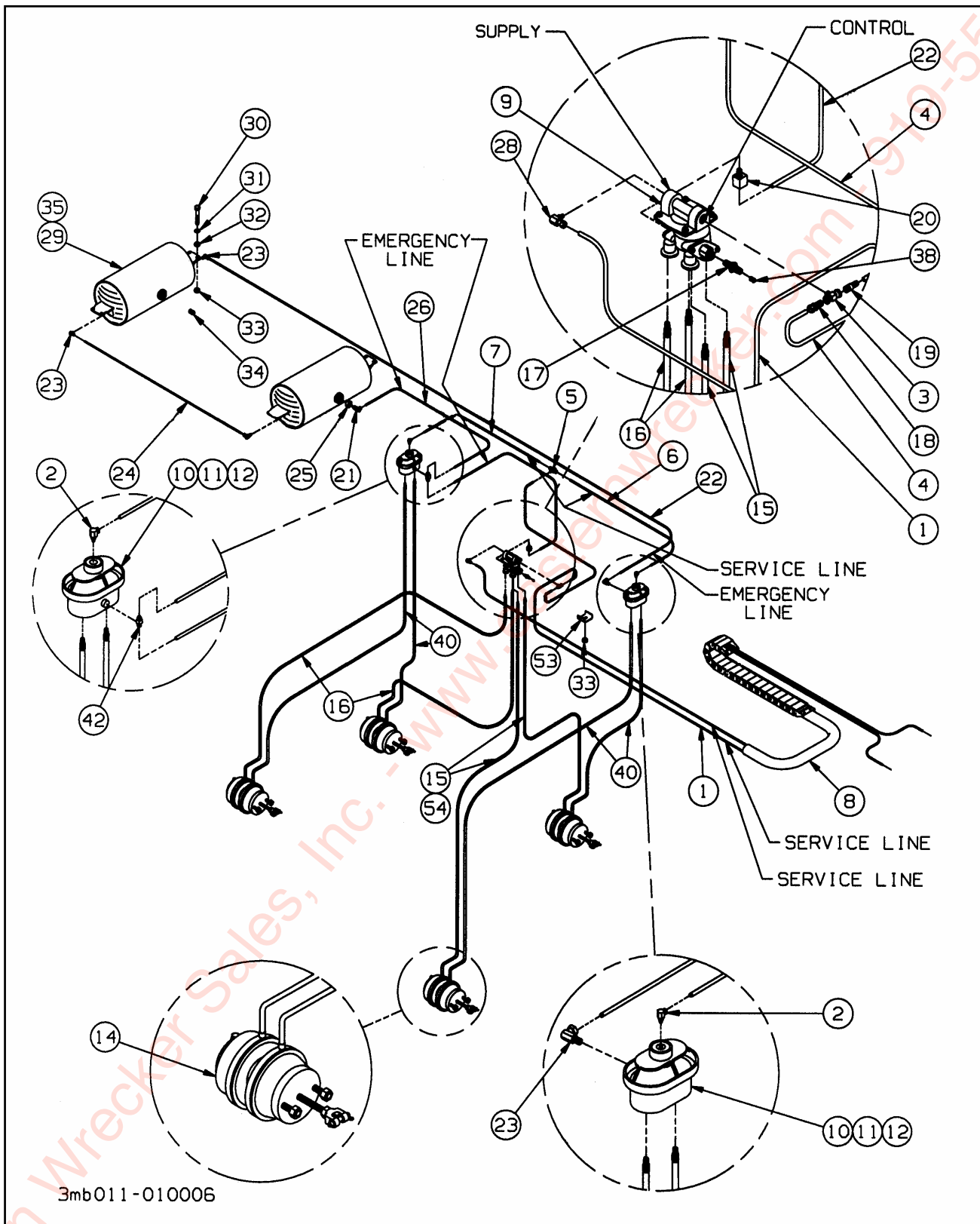


Figure 1-32 Air Brake System w/o ABS (Tandem Axle)

AIR BRAKE SYSTEM W/O ABS (TANDEM AXLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-011-010006-02	AIR SYSTEM ASSEMBLY	
1	100949	HOSE AIR 222	2
2	1-297-010008-20	FITTING AIR 90	2
3	1-297-010017-03	FITTING AIR M/ BR TEE	1
4	1-833-010002024	TUBING NYLON 24	1
5	1-297-010010-03	FITTING AIR UNION TEE	1
6	1-833-010002048	TUBING NYLON 48	1
7	1-833-010002036	TUBING NYLON 36	1
8	1-394-010001	HOSE ABRASION SLEEVE X 2	4
9	758-181	VALVE RELAY EMERGENCY	1
10	3-843-010005	VALVE RELAY PORT	2
11	1-861-010034-10	WASHER SPLIT LOCK 5/16	4
12	1-512-010007-06	NUT HEX LOCK 5/16-18 GRB	4
14	3-128-010002	SPRING BRAKE DOUBLE DIAPHRAGM	REF
15	1-384-010038060	HOSE AIR 60	2
16	1-384-010038024	HOSE AIR 24	2
17	55B61	FRAME UNION	1
18	1-297-010007-12	FITTING AIR	1
19	2088-6-6S	ADAPTER 45	1
20	1-297-010007-15	FITTING AIR	1
21	1-297-010008-23	FITTING AIR 90	1
22	1-833-010003044	TUBING NYLON 44	2
23	1-297-010008-24	FITTING AIR 90	4
24	1-8336-010003010	TUBING NYLON 44	1
25	1/2X3/8 BUSH	BUSHING	1
26	1-833-010003021	TUBING NYLON 21	1
28	2089-6-6S	ADAPTER 90	1
29	3-780-010002	TANK AIR	2
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
31	1-861-010032-11	WASHER FLAT 3/8W	16
32	805-2	STEP BUSHING	16
33	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	9
34	1-560-010002-04	PLUG PIPE	4
35	56D4	AIR TANK DRAIN COCK	2
38	1-560-010002-02	PLUG PIPE	1
40	3-384-010020	HOSE AIR 32	4
42	1-297-010015-11	FITTING AIR BRANCH TEE	1
53	2-181-010001	CLAMP HOSE	1

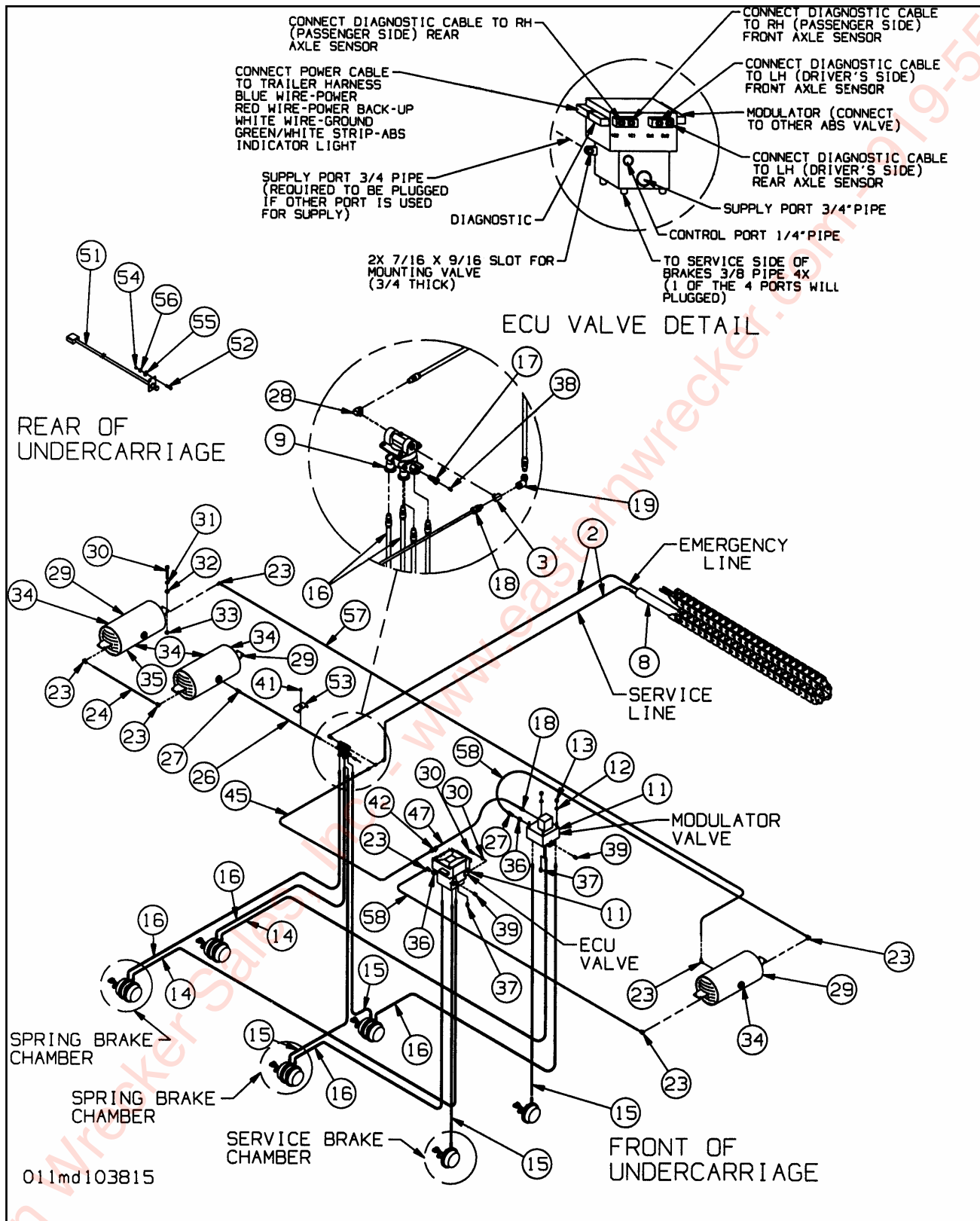


Figure 1-33 Air Brake System w/ ABS (Triple Axle)

AIR BRAKE SYSTEM W/ ABS (TRIPLE AXLE)

ITEM	PART NO.	DESCRIPTION	QTY.
	104472	AIR SYSTEM ABS, TRIPLE AXLE	
2	100948	HOSE AIR 174	2
3	1-297-010017-03	FITTING AIR M/ BRASS TEE	1
8	1-394-010001	HOSE ABRASION SLEEVE X 2	4
9	758-181	VALVE RELAY EMERGENCY	1
11	103860	BRAKE KIT ROCKWELL ANS 4S/2M-610 (SEE PAGE 1-63)	1
12	1-861-010032-09	WASHER FLAT 5/16W	2
13	1-512-010005-03	NUT HEX LOCK 5/16-18	2
14	1-384-010038084	HOSE AIR 84	2
15	1-384-010038060	HOSE AIR 60	4
16	1-384-010038024	HOSE AIR 24	4
17	55B61	FRAME UNION	1
18	1-297-010007-12	FITTING AIR	2
19	2088-6-6S	ADAPTER 45	1
23	1-297-010008-24	FITTING AIR 90	7
24	1-833-010003010	TUBING NYLON 10	1
26	1-833-010003032	TUBING NYLON 32	1
27	1-297-010007-16	FITTING AIR	2
28	2089-6-6S	ADAPTER 90	1
29	3-780-010002	TANK AIR	3
30	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X1-3/4 GR5	14
31	1-861-010032-11	WASHER FLAT 3/8W	26
32	805-2	STEP BUSHING	24
33	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	12
34	1-560-010002-04	PLUG PIPE	4
35	56D4	AIR TANK DRAIN COCK	3
36	118-2659-9	BUSHING	2
37	1-560-010002-03	PLUG PIPE	2
38	1-560-010002-02	PLUG PIPE	1
39	1-560-010002-05	PLUG PIPE	2
41	1-510-010001	NUT FLANGE LOCK 3/8-16	2
42	1-297-010015-06	FITTING AIR BRASS TEE	1
45	1-833-010002076	TUBING NYLON 76	1
47	1-833-010002030	TUBING NYLON 30	1
51	101852	DIAGNOSTIC CABLE W/ SWITCH	1
52	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20 X 1 GR5	2
53	103817	CLAMP HOSE	2
54	1-512-010007-05	NUT HEX LOCK 1/4-20 GRB	2
55	1-861-010032-07	WASHER FLAT 1/4W	2
56	1-861-010034-09	WASHER SPLIT LOCK 1/4	2
57	1-833-010003192	TUBING NYLON 192	1
58	1-833-010003096	TUBING NYLON 96	2

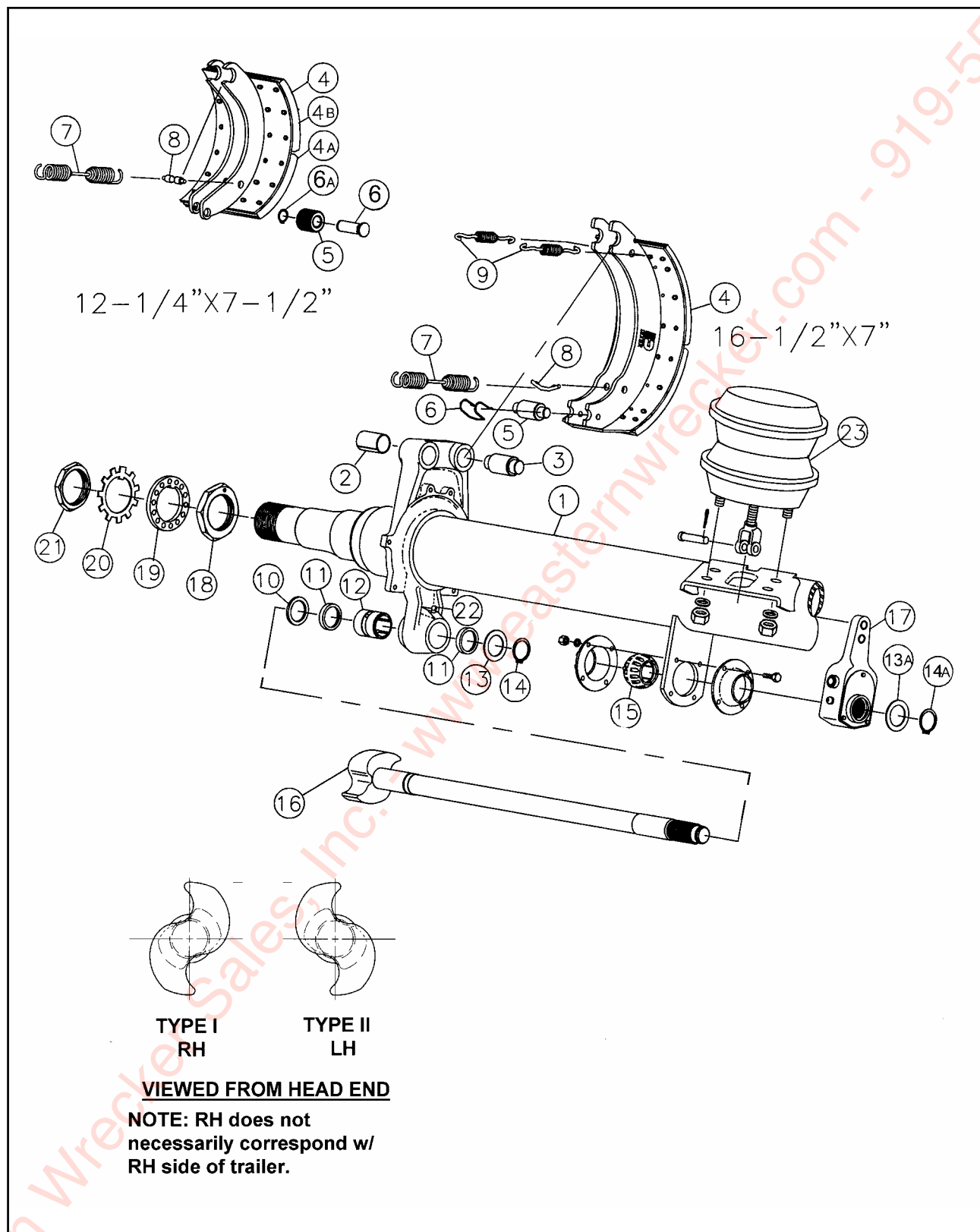


Figure 1-34 Axle and Brake Items (Dexter)

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-042-010130-01	AXLE 64-1/2, 12-1/4 X 7-1/2 SPG BK (22.5K)	
	3-042-010130-02	AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BK (22.5K)	
	3-042-010132-01	AXLE 64-1/2, 12-1/4 X 7-1/2 SPG BK (25K)	
	3-042-010132-02	AXLE 70-1/2, 12-1/4 X 7-1/2 SPG BK (25K)	
	3-042-010133-01	AXLE 64-1/2, 12-1/4 X 7-1/2 SER BK (25K)	
	3-042-010133-02	AXLE 70-1/2, 12-1/4 X 7-1/2 SER BK (25K)	
	3-042-010141-01	AXLE 70-1/2, 16-1/2 X 7 SPG BK (22.5K)	
	3-042-010141-03	AXLE 67-1/2, 16-1/2 X 7 SPG BK (22.5K)	
	3-042-010142-01	AXLE 69 16-1/2 X 7 SER BK (25K)	
	101702	AXLE 78, 12-1/4 X 7-1/2 SER BK (25K)	
1*	D-2212-70.5	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2212-64.5	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2512-64.5	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2512-70.5	BEAM W/ BRACKETS (12.25 X 7.5 BRAKE)	1
	D-2516-69	BEAM W/ BRACKETS (16.5 X 7 BRAKE)	1
	D-2516-67.5	BEAM W/ BRACKETS (16.5 X 7 BRAKE)	1
	D-2516-69	BEAM W/ BRACKETS (16.5 X 7 BRAKE)	1
	**K71-098-00	BRAKE SHOE HDWR KIT(12.25X7.5) (ITEMS 2, 3, 5, 6, 7, 8, & 9)	
	**K71-136-00	BRAKE SHOE HDWR KIT (16.5 X 7) (ITEMS 2, 3, 5, 6, 7, 8, & 9)	
2**	014-068-00	BUSHING, ANCHOR PIN (12.25 X 7 BRAKE)	4
	014-068-00	BUSHING, ANCHOR PIN (16.5 X 7 BRAKE)	4
3**	056-011-00	PIN, ANCHOR (12.25 X 7.5 BRAKE)	4
	056-017-00	PIN, ANCHOR (16.5 X 7 BRAKE)	4
4	040-320-01	BRAKE SHOE AND LINING (12.25 X 7.5 BRAKE)	4
4A	041-060-01	BRAKE SHOE, LINING, & ROLLER, LH (12.25 X 7.5 BRAKE)	2
	041-058-01	BRAKE SHOE, LINING, & ROLLER, RH (12.25 X 7.5 BRAKE)	2
4B	041-057-01	BRAKE SHOE AND LINING (16.5 X 7 BRAKE)	4
	041-059-01	BRAKE SHOE, LINING, ROLLER & RETAINER (16.5X7 BRK)	4
	K71-133-00	BRAKE BLOCK KIT -LINING & RIVETS (12.25 X 7.5 BRAKE)	4
	K71-138-00	BRAKE BLOCK KIT -LINING AND RIVETS (16.5 X 7 BRAKE)	4
5**	014-057-00	ROLLER, KNURLED (12.25 X 7.5 BRAKE)	4
	014-065-00	ROLLER, KNURLED (16.5 X 7.5 BRAKE)	4
6**	056-010-00	WASHER, ANCHOR PIN (12.25 X 7.5 BRAKE)	8
	071-122-00	RETAINER, ROLLER (16.5 X 7 BRAKE)	4
6A**	069-018-00	RETAINER, ANCHOR PIN (12.25 X 7.5 BRAKE ONLY)	8
7**	046-092-00	SPRING, SHOE RETURN (12.25 X 7.5 BRAKE)	2
	046-096-00	SPRING, SHOE (16.5 X 7 BRAKE)	2
8**	056-018-00	RETAINER, PIN SHOE RETURN SPRG(12.25 X 7.5 BRAKE)	4
	056-018-00	RETAINER, RETRACTOR SPRING (16.5 X 7 BRAKE)	4
9**	046-097-00	SPRING, SHOE KEEPER	4
	***K71-101-00	CAMSHAFT REPAIR KIT (12.25 X 7.5) (ITEMS 10-15, & 22)	
	***K71-135-00	CAMSHAFT REPAIR KIT (16.5 X 7) (ITEMS 10-15, & 22)	
10***	005-074-00	D" WASHER (12.25 X 7.5 BRAKE)	2
	005-096-00	WASHER CAMSHAFT (16.5 X 7 BRAKE)	2
11***	010-052-00	SEAL GREASE	4
12***	014-056-00	BUSHING CAMSHAFT SPIDER	2

AXLE AND BRAKE ITEMS (DEXTER)

ITEM	PART NO.	DESCRIPTION	QTY.
13***	005-075-00	WASHER CAMSHAFT(12.25 X 7.5 BRAKE)	4
	005-097-00	WASHER CAMSHAFT(16.5 X 7 BRAKE)	4
13A***	005-134-00	WASHER CAMSHAFT END	2
14***	069-020-00	RETAINER, CAMSHAFT	2
14A***	069-078-00	RETAINER, CAMSHAFT END	2
15***	014-058-00	BUSHING CAMSHAFT SUPPORT	2
16	034-188-03	CAMSHAFT, 22-5/16" LH(12.25 X 7.5 BRK, 70.5 TRK)	1
	034-189-03	CAMSHAFT, 22-5/16" RH(12.25 X 7.5 BRK, 70.5 TRK)	1
	034-188-08	CAMSHAFT, 19-1/2" LH(12.25 X 7.5 BRAKE, 64.5 TRK)	1
	034-189-08	CAMSHAFT, 19-1/2" RH(12.25 X 7.5 BRAKE, 64.5 TRK)	1
	034-192-05	CAMSHAFT, 22-5/8" LH (16.5 X 7 BRAKE, 69 TRK)	1
	034-193-05	CAMSHAFT, 22-5/8" RH (16.5 X 7 BRAKE, 69 TRK)	1
	034-192-01	CAMSHAFT, 20-3/8" LH (16.5 X 7 BRAKE, 76 TRK)	1
	034-193-01	CAMSHAFT, 20-3/8" RH (16.5 X 7 BRAKE, 76 TRK)	1
17	3-128-010029	SLACK ADJUSTER, AUTOMATIC (12.25 X 7.5 BRAKE)	2
	3-128-010030	SLACK ADJUSTER, AUTOMATIC (16.5 X 7 BRAKE)	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 45°	2
23	034-058-07	CHAMBER, SPRING BRAKE (12.25 X 7.5 BRAKE)	2
	034-058-01	CHAMBER, SPRING BRAKE (16.5 X 7 BRAKE)	4
	034-057-07	CHAMBER, SERVICE BRAKE (12.25 X 7.5 BRAKE)	2
	034-057-01	CHAMBER, SERVICE BRAKE (16.5 X 7 BRAKE)	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 PAGES 1-64 TO 1-67

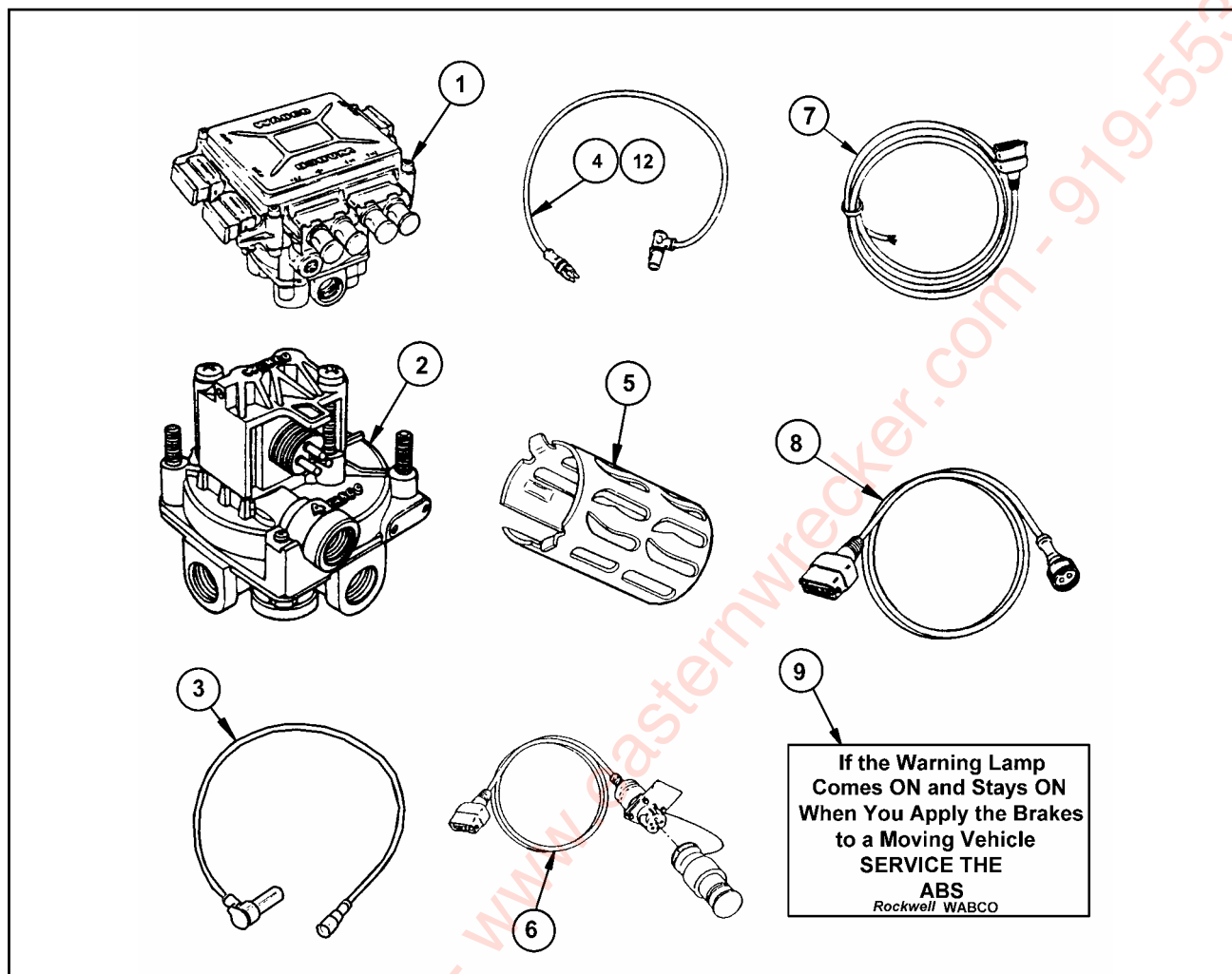


Figure 1-35 Brake Kit, Meritor WABCO (Rockwell) ABS

BRAKE KIT, MERITOR WABCO (ROCKWELL) ABS

ITEM	PART NO.	DESCRIPTION	QTY.
	101420	BRAKE KIT, ROCKWELL ABS 4S/2M	
	103860	BRAKE KIT ROCKWELL 4S/2M-610	
1	101845	ECU/VALVE ASSEMBLY	1
2	101846	ABS RELAY VALVE	1
3	101847	ABS SENSOR CABLE	4
4	101848	SENSOR EXTENSION CABLE	4,2*
5	101849	ABS SENSOR SPRING CLIP	4
6	101852	DIAGNOSTIC CABLE W/ SWITCH	1
7	101853	POWER CABLE 4 COND	1
8	101854	CONNECTION CABLE FOR ABS RELAY	1
9	101855	WARNING LAMP LABEL	1
10	—	INSTALLATION GUIDE (NOT SHOWN)	1
11	104551	ABS MAINTENANCE MANUAL NO.33 (NOT SHOWN)	1
12	103861	SENSOR EXTENSION CABLE	2

* 1ST QUANTITY LISTED IS FOR P/N 101420; 2ND QUANTITY LISTED IS FOR P/N 103860.

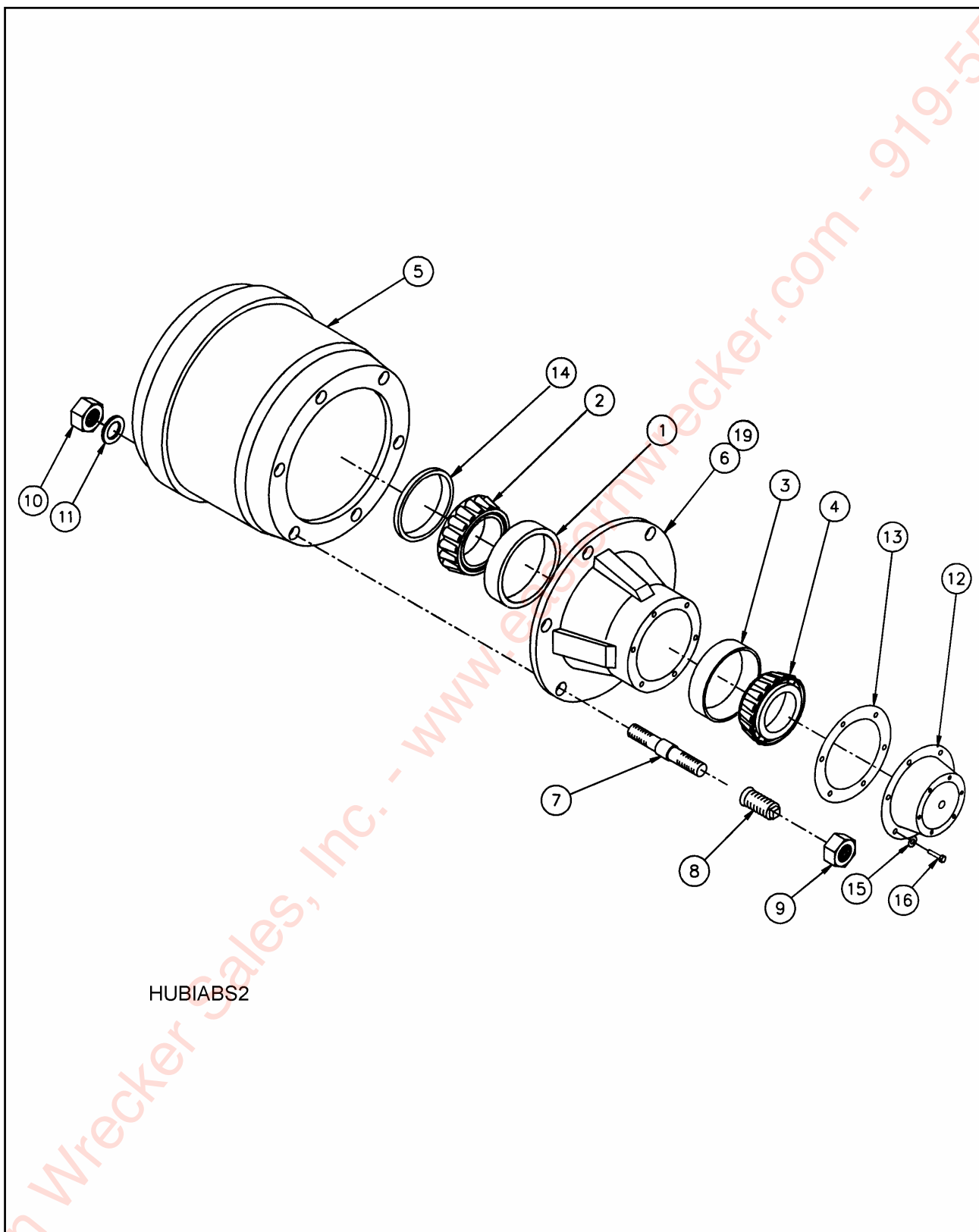
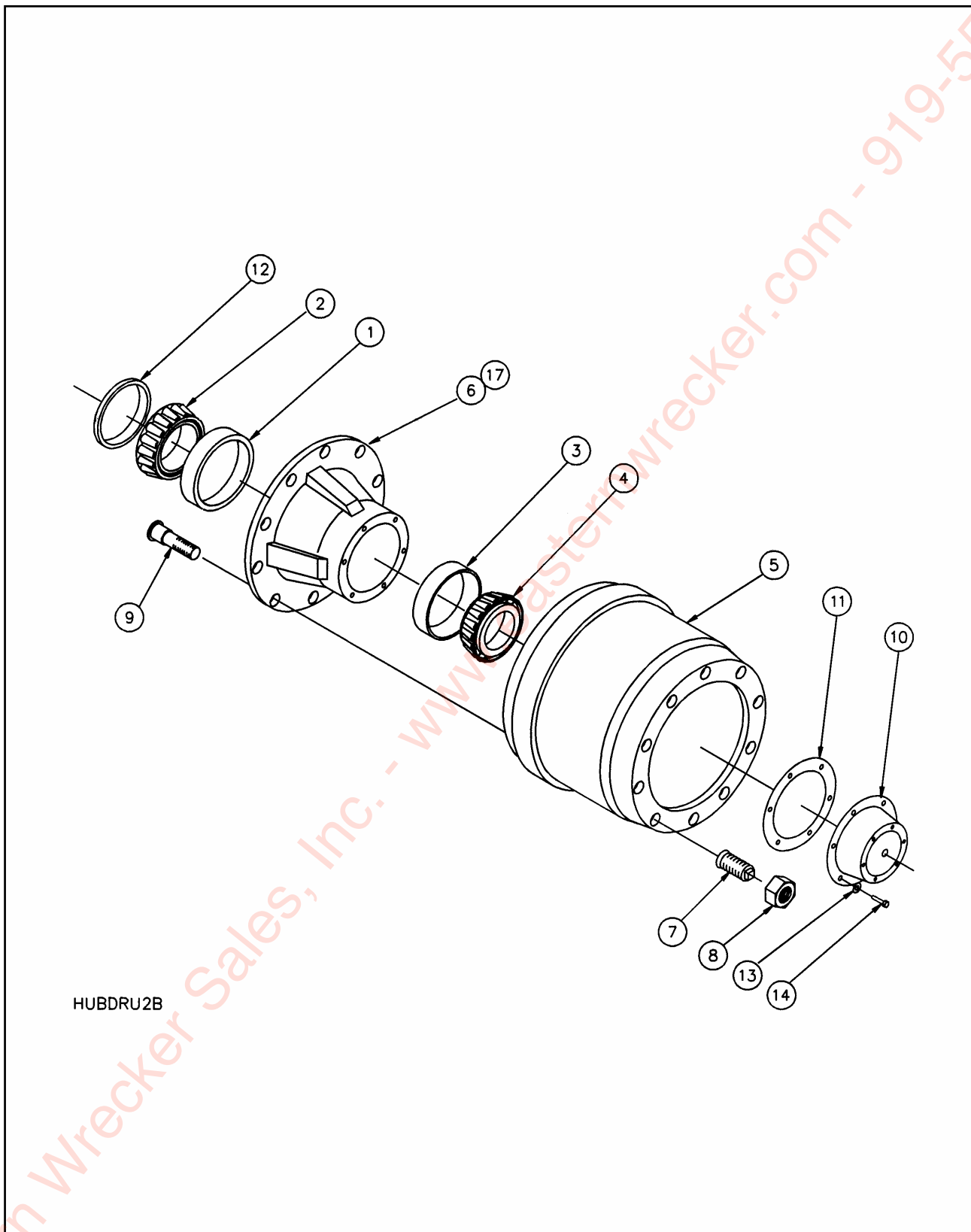


Figure 1-36 Inboard Ball Seat Mount Hub and Drum

INBOARD BALL SEAT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	103245	HUB/DRUM 6 BOLT 12-1/4 BSN LH ABS	
	103246	HUB/DRUM 6 BOLT 12-1/4 BSN RH ABS	
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	63635	INBOARD MOUNTED BRAKE DRUM (6 BOLT)	1
6	1056	HUB (6 BOLT)	1
7	139913	STUD LH (6 BOLT)	6
	139902	STUD RH (6 BOLT)	6
8	107083	CAPNUT INNER LH (6 BOLT)	6
	107082	CAPNUT INNER RH (6 BOLT)	6
9	178921	CAPNUT OUTER LH (6 BOLT)	6
	178910	CAPNUT OUTER RH (6 BOLT)	6
10	75716	NUT HEX LOCK 3/4-16	6
11	257	FLAT WASHER	6
12	021-038-01 (4009)	CAP HUB	1
13	071-124-00 (3067)	GASKET OIL CAP	1
14	3-569-010012	SEAL	1
15	1-861-010034-10	WASHER SPLIT LOCK 5/16	6
16	1-654-010049-03	SCREW HEX HEAD CAP 5/16-18X3/4	6
17	3-870-010012	WHEEL DISC 6.75 X 17	1
18	TR573	VALVE STEM	1
19	*	ABS TONE RING	1

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



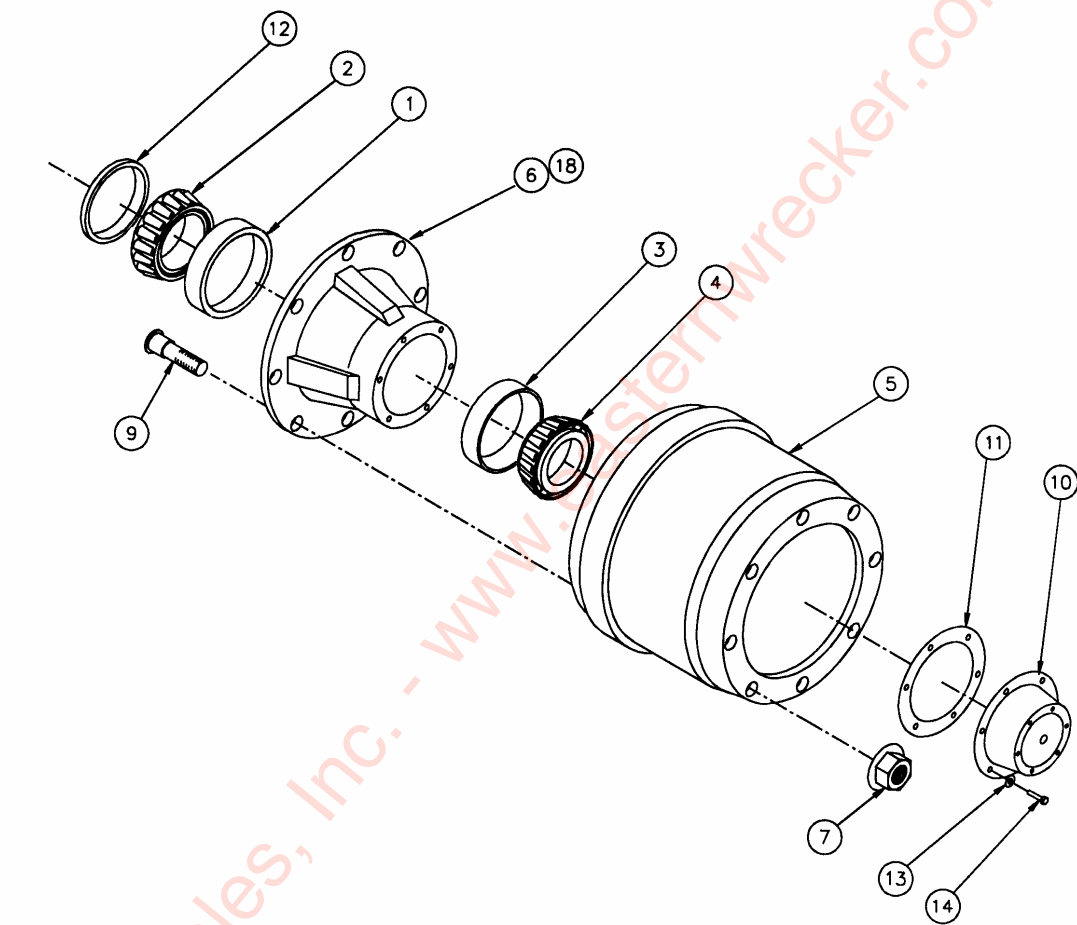
HUBDRU2B

Figure 1-37 Outboard Ball Seat Mount Hub and Drum

OUTBOARD BALL SEAT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	103779	HUB/DRUM 10 BOLT 16-1/2 BSN-LH ABS	
	103780	HUB/DRUM 10 BOLT 16-1/2 BSN-RH ABS	
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	66893	BRAKE DRUM	1
6	1020	HUB IRON (10 BOLT)	1
7	107083	CAPNUT, INNER LH (10 BOLT)	10
	107082	CAPNUT, INNER RH (10 BOLT)	10
8	178921	CAPNUT, OUTER LH (10 BOLT)	10
	178910	CAPNUT, OUTER RH (10 BOLT)	10
9	159183	STUD, LH	10
	159184	STUD, RH	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 5/16-18 x 3/4	6
15	3-870-010014	WHEEL 7.5 X 22.5 BALL SEAT MOUNT DISC	1
16	TR573	VALVE STEM	1
17	*	ABS TONE RING	1

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



HUBOABS2

Figure 1-38 Outboard Pilot Mount Hub and Drum

OUTBOARD PILOT MOUNT HUB AND DRUM

ITEM	PART NO.	DESCRIPTION	QTY.
	3-406-010076	HUB/DRUM 8 BOLT 12-1/4 PILOT (BEFORE 6/23/99)	
	108540	HUB/DRUM 8 BOLT 12-1/4 PILOT, ABS (AFTER 6/23/99)	
	103781	HUB/DRUM 10 BOLT 16-1/2 PILOT ABS	
	103782	HUB ALUM/ CENTRIFUSE DRUM 16-1/2 PILOT ABS	
	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	66884	OUTBOARD MOUNTED BRAKE DRUM (10 BOLT)	1
	63680	OUTBOARD MOUNTED BRAKE DRUM (8 BOLT)	1
	69996 B	OUTBOARD MOUNTED CENTRIFUSE BRAKE DRUM	1
6	2023	HUB IRON (10 BOLT)	1
	112492(2027----T)	HUB IRON (8 BOLT)100 TH TONER RING(BEFORE 6/23/99)	1
	112493(2027----T80)	HUB IRON (8 BOLT) 80 TH TONER RING(AFTER 6/23/99)	1
	2091	HUB ALUMINUM (10 BOLT)	1
7	179933	FLANGE NUT (10 BOLT)	10
	179955	FLANGE NUT (8 BOLT)	8
9	101162	STUD (USED WITH 3-406-010076 & 103781)	**8,10
	102190	STUD (USED WITH 103782)	10
	101160	STUD (USED WITH 103783)	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	100402	WHEEL ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	3-870-010097	WHEEL DISC PILOT MOUNT 17.5 X 6.75 (8 BOLT)	1
	3-870-010104	WHEEL DISC PILOT MOUNT 22.5 X 7.50 (10 BOLT)	1
16	TR573	VALVE STEM - STEEL WHEEL (NOT SHOWN)	1
	100401	VALVE STEM TR543C - ALUMINUM WHEEL (NOT SHOWN)	1
18	*	ABS TONE RING	1

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

** THE FIRST QUANTITY IS FOR THE 8 BOLT WHEEL, AND THE SECOND QUANTITY IS FOR THE 10 BOLT WHEEL.

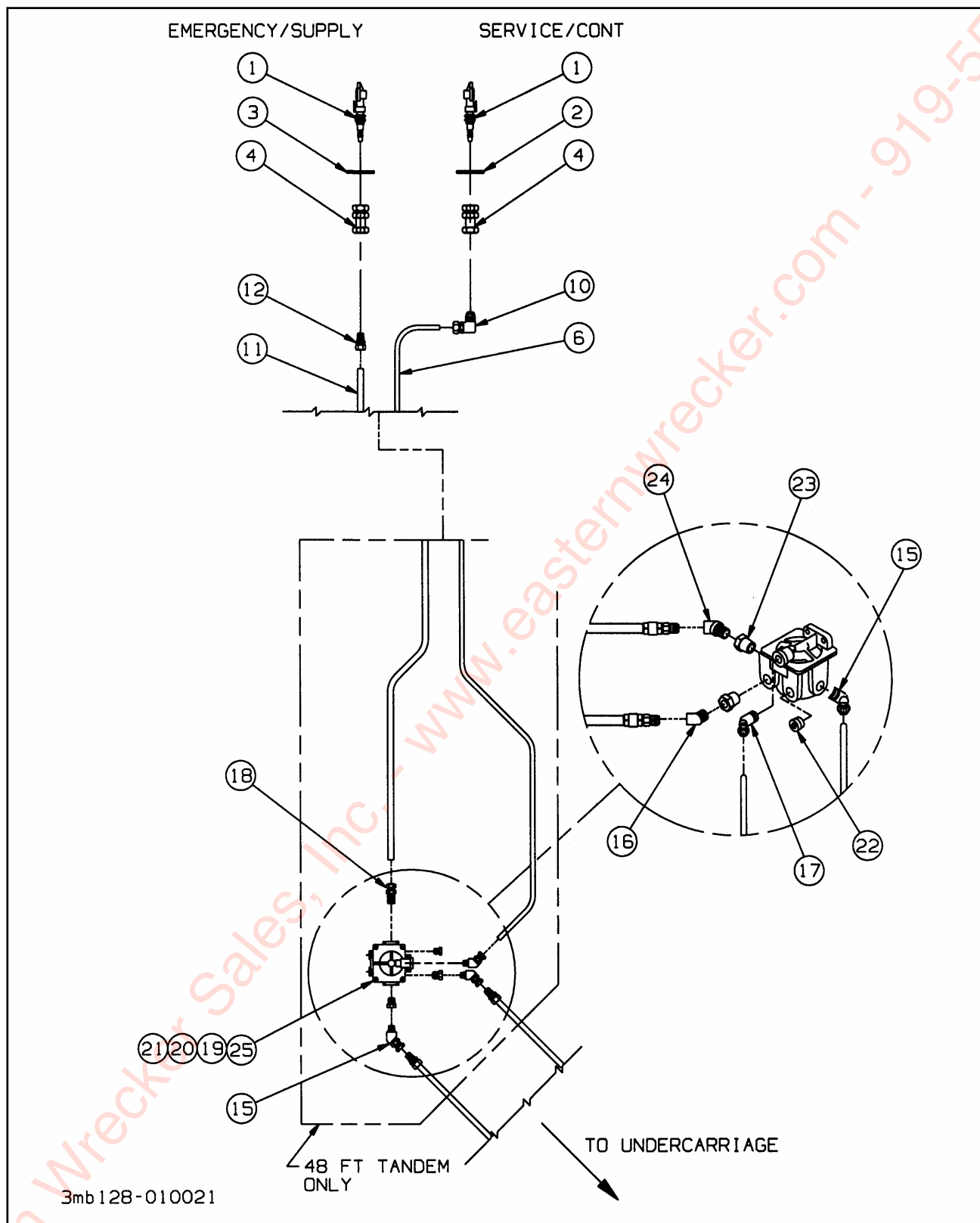


Figure 1-39 Air System, Main

AIR SYSTEM, MAIN

ITEM	PART NO.	DESCRIPTION	QTY.
	3-128-010021	AIR SYSTEM	
1	55B11	GLADHAND (PRIOR 03/00)	2
	108801	GLADHAND RED AIR (AFTER 03/00)	1
	108802	GLADHAND BLUE AIR (AFTER 03/00)	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 3/8OD	A/R
10	1-297-010008-18	FITTING AIR 90 3/8TUBE X 1/4NPT	1
11	1-833-010003	TUBING NYLON 1/2OD	A/R
12	1-297-010007-14	FITTING AIR 1/2TUBE X 1/4NPT	1
15	1-297-010013-16	FITTING AIR 45 1/2TUBE X 1/2NPT	1
16	1-297-010013-13	FITTING AIR 45 3/8TUBE X 3/8NPT (TANDEM AXLE ONLY)	1
17	1-297-010013-12	FITTING AIR 45 3/8TUBE X 3/8NPT	1
18	1-297-010007-16	FITTING AIR 45 3/8TUBE X 3/8NPT (TANDEM AXLE ONLY)	1
19	3-843-010038	VALVE AIR RELAY-FAST AIR BALANCE	1
20	1-861-010032-06	WASHER FLAT 1/4N	2
21	1-512-010005-01	NUT HEX LOCK 1/4-20	2
22	1-560-010002-04	PLUG PIPE	1
23	2081-8-6S	REDUCER	2
24	2088-6-6S	FITTING AIR 45 3/8MPT X 3/8FNP	*2,1
25	1-654-010027-7	SCREW HEX HEAD CAP 1/4-23 X 1-1/4 (TRI. AXLE ONLY)	2

* 1ST QUANTITY LISTED IS FOR TANDEM AXLE; 2ND QUANTITY LISTED IS FOR TRIPLE AXLE.

WINCH INSTALLATION, SLOPE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010127	WINCH INSTALLATION 12K SLOPE	
	3-873-010128	WINCH INSTALLATION 20K SLOPE	
1	3-222-010079	COVER UPPER DECK WINCH	REF
2	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER FLAT 1/2W GRA	4
4	1-512-010005-09	NUT HEX LOCK 1/2-13 GRC	12,8*
5	3-711-010028	SPACER WINCH COVER	2
6	3-873-010126-2	WINCH ASSY 12,000LB PARKER (SEE ITEMS 17-28)	1
	3-873-010129-2	WINCH ASSY 20,000LB PARKER (SEE ITEMS 17-28)	1
7	3-155-010017-1	CABLE 1/2 W/LOOP, 60FT	REF
	3-155-010017-4	CABLE 1/2 W/LOOP, 85FT	REF
	3-155-010018-1	CABLE 5/8 W/LOOP, 60FT	REF
	3-155-010018-4	CABLE 5/8 W/LOOP, 85FT	REF
8	1-174-010038	CHAIN LINK CONNECTING	1
9	1-174-010039036	CHAIN	1
10	7HCGHT500	CLEVIS GRAB HOOK	1
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5	8
12	202702-10-8S	ADAPTER	2
14	1-397-0103025078	HOSE ASSEMBLY	2
15	2-181-010001	HOSE CLAMP	REF
16	1-510-010001	NUT FLANGED LOCK 3/8-16 GRB	REF
17	3-873-010122	WINCH WORM GEAR 12,000LB (SEE PAGE 1-83)	1
	3-873-010123	WINCH WORM GEAR 20,000LB (SEE PAGE 1-86)	1
18	3-481-010006	MOTOR HYDRAULIC 12,000LB (SEE PAGE 1-91)	1
	3-481-010007	MOTOR HYDRAULIC 20,000LB (SEE PAGE 1-91)	1
19	3-873-010124	WINCH TENSIONER WLDMT 12K	1
	3-873-010125	WINCH TENSIONER 20K BRADEN SPG (BEFORE 10/97)	1
	102186	WINCH TENSIONER 20K BRADEN SPG (AFTER 10/97)	1
20	3-720-010010	SPRING COMP LEVEL WIND	1
21	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	1
22	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	3
23	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
24	1-861-010032-10	WASHER FLAT 3/8N GRA	6
25	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X6 GR5	1
26	1-861-010032-15	WASHER FLAT 1/2W GRA	1
27	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13 X 1-3/4 GR5	2
28	1-861-010034-13	WASHER SPLIT LOCK 1/2	2

* 1ST QUANTITY OF ITEM 4 IS USED WITH ITEMS 1-28; 2ND QUANTITY OF ITEM 4 IS USED WITH ITEMS 5-28 ONLY.

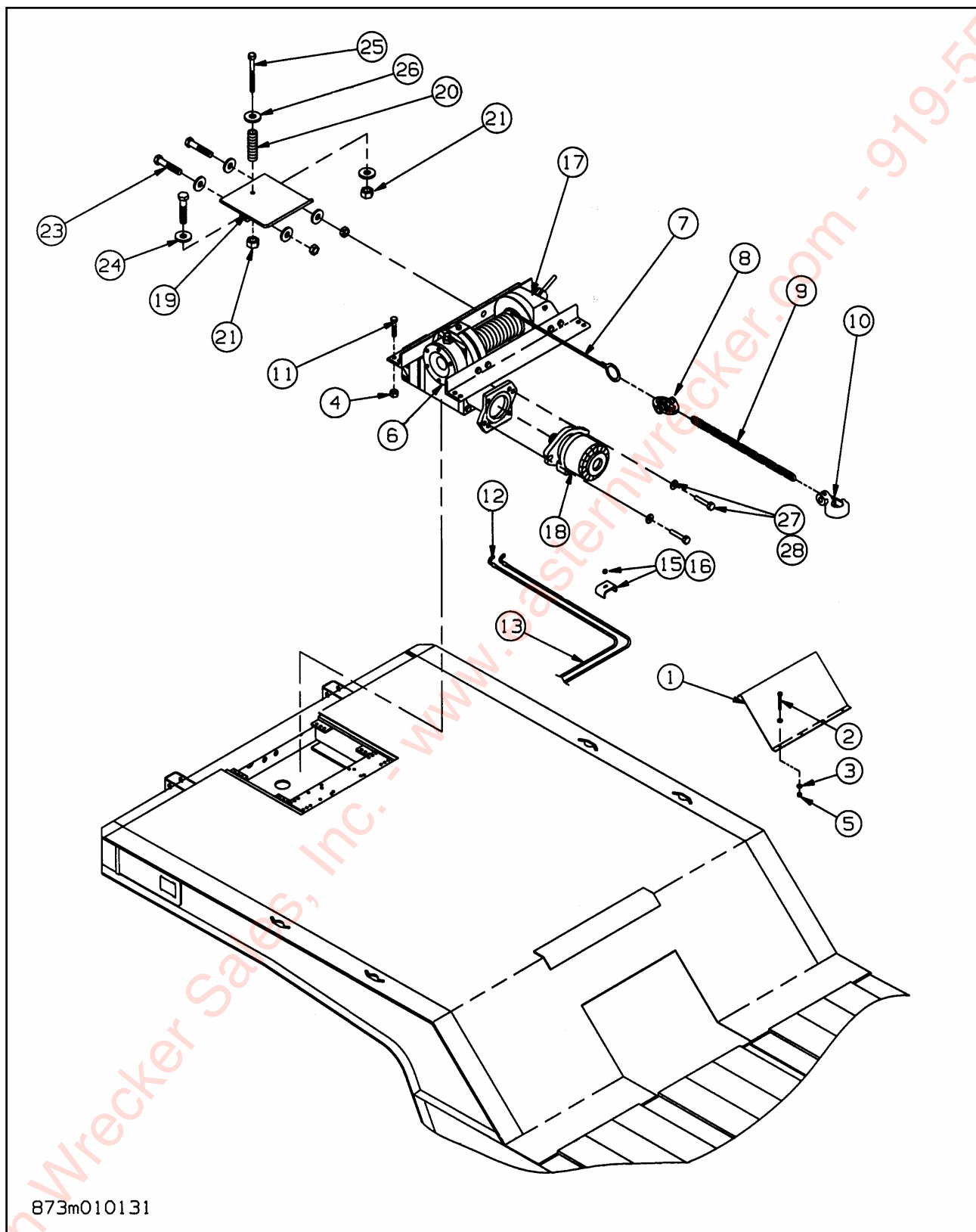


Figure 1-41 Winch Installation, Upperdeck

WINCH INSTALLATION UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010131	WINCH INSTALLATION 12K UPPERDECK	
	3-873-010130	WINCH INSTALLATION 20K UPPERDECK	
1	3-222-010083	COVER WINCH SLOPE	REF
2	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5	8
3	1-861-010032-11	WASHER FLAT 3/8W	12
4	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
5	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	8
6	3-873-010126-2	WINCH ASSY 12,000LB PARKER (SEE ITEMS 17-28)	1
	3-873-010129-2	WINCH ASSY 12,000LB PARKER (SEE ITEMS 17-28)	1
7	3-155-010017-1	CABLE 1/2 W/LOOP 60FT	REF
	3-155-010017-4	CABLE 1/2 W/LOOP 85FT	REF
	3-155-010018-1	CABLE 5/8 W/LOOP 60FT	REF
	3-155-010018-4	CABLE 5/8 W/LOOP 85FT	REF
8	3-174-010038	CHAIN LINK CONNECTING	1
9	3-174-010039036	CHAIN	1
10	7HCGHT500	CLEVIS GRAB HOOK	1
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
12	202702-10-8S	ADAPTER	2
13	1-397-010302216	HOSE ASSY	2
15	2-181-010001	HOSE CLAMP	REF
16	1-510-010001	NUT FLANGE LOCK 3/8-16	REF
17	3-873-010122	WINCH WORM GEAR 12,000LB PARKER (SEE PAGE 1-83)	1
	3-873-010123	WINCH WORM GEAR 20,000LB PARKER (SEE PAGE 1-86)	1
18	3-481-010006	MOTOR HYDRAULIC 12,000LB (SEE PAGE 1-91)	1
	3-481-010007	MOTOR HYDRAULIC 20,000LB (SEE PAGE 1-91)	1
19	3-873-010124	WINCH TENSIONER (12K)	1
	3-873-010125	WINCH TENSIONER 20K BRADEN SPG (BEFORE 10/97)	1
	102186	WINCH TENSIONER BRADEN (20K)	1
20	3-720-010010	SPRING COMP LEVEL WIND	1
21	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	1
22	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	3
23	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
24	1-861-010032-10	WASHER FLAT 3/8N GRA	6
25	1-654-010055-16	SCREW HEX HEAD CAP 1/2-13 X 5-1/2 GR5 (12K)	1
	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5 (20K)	1
26	1-861-010032-15	WASHER FLAT 1/2W GRA	1
27	1-654-010055-04	SCREW HEX HEAD CAP 1/2-13X1-3/4 GR5	2
28	1-861-010034-13	WASHER SPLIT LOCK 1/2	2

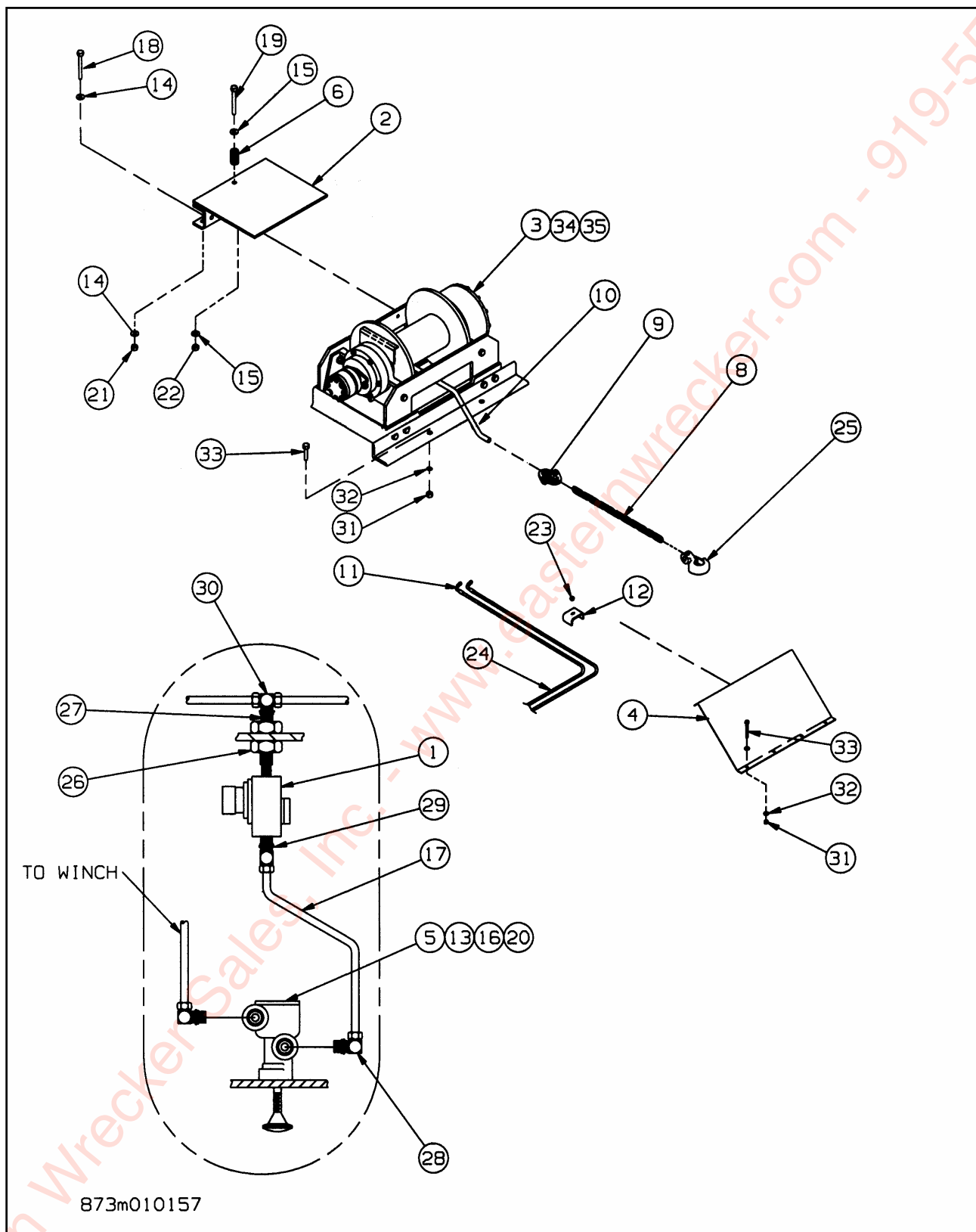


Figure 1-42 Winch Installation 30K

WINCH INSTALLATION 30K

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010157-01	WINCH INSTALLATION 30K W/ HARDWARE	
	3-873-010157-02	WINCH INSTALLATION 30K W/O HARDWARE	
1	905-54-107	BRAKE PROTECTION VALVE	1
2	3-876-010017	WINCH TENSIONER WELDMENT	1
3	3-873-010155	WINCH MODIFICATION (ITEMS 34 & 35)	1
4	3-222-010083	COVER WINCH SLOPE	REF*
5	3-843-010008	VALVE AIR 3WAY, 2POS, PUSH-PULL (NO PARTS BREAKDOWN)	1
6	3-720-010010	SPRING COMP LEVEL WIND	1
8	3-174-010060036	CHAIN GR80	1
9	3-174-010059	CHAIN LINK CONNECTING 5/8	1
10	3-153-010016	CABLE ASSEMBLY 3/4 W/LOOP	REF
11	202702-8-8S	ADAPTER	2
12	2-181-010001	HOSE CLAMP	1
13	1-861-010034-07	WASHER SPLIT LOCK #10	2
14	1-861-010032-18	WASHER FLAT 5/8N	4
15	1-861-010032-15	WASHER FLAT 1/2W	2
16	1-861-010032-03	WASHER FLAT #10	2
17	1-833-010001	TUBING NYLON 1/4OD	25
18	1-654-010059-05	SCREW HEX HEAD CAP 5/8-11 X 2 GR5	2
19	1-654-010055-17	SCREW HEX HEAD CAP 1/2-13 X 6 GR5	1
20	1-654-010024079	SCREW MACH FLSTR HD #10-32 X 3/4	2
21	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	2
22	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	1
23	1-510-010001	NUT FLANGE LOCK 3/8-6	1
24	1-397-010302192	HOSE ASSEMBLY	2
25	1-382-010035-06	HOOK CLEVIS GRAB	1
26	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
27	1-297-010020-02	FITTING BRASS PIPE	1
28	1-297-010008-07	FITTING AIR 90 1/4TUBE TO 1/4NPT	2
29	1-297-010007-05	FITTING AIR 1/4PIPE TO 1/4TUBE	1
30	1-297-010015-09	FITTING AIR BRANCH TEE	1
31	1-512-010005-05	NUT HEX LOCK 3/8-16 GRB	8*
32	1-861-010032-11	WASHER FLAT 3/8W	8*
33	1-654-010051-07	SCREW HEX HEAD CAP 3/8-16X1-1/2 GR5	8*
34	3-873-010154	WINCH 30,000LB DP (SEE PAGE 1-89)	1
35	1-297-010008-07	FITTING AIR 90 1/4PIPE X 1/4NPT	2

* THESE ITEMS ARE USED WITH P/N 3-873-010157-01.

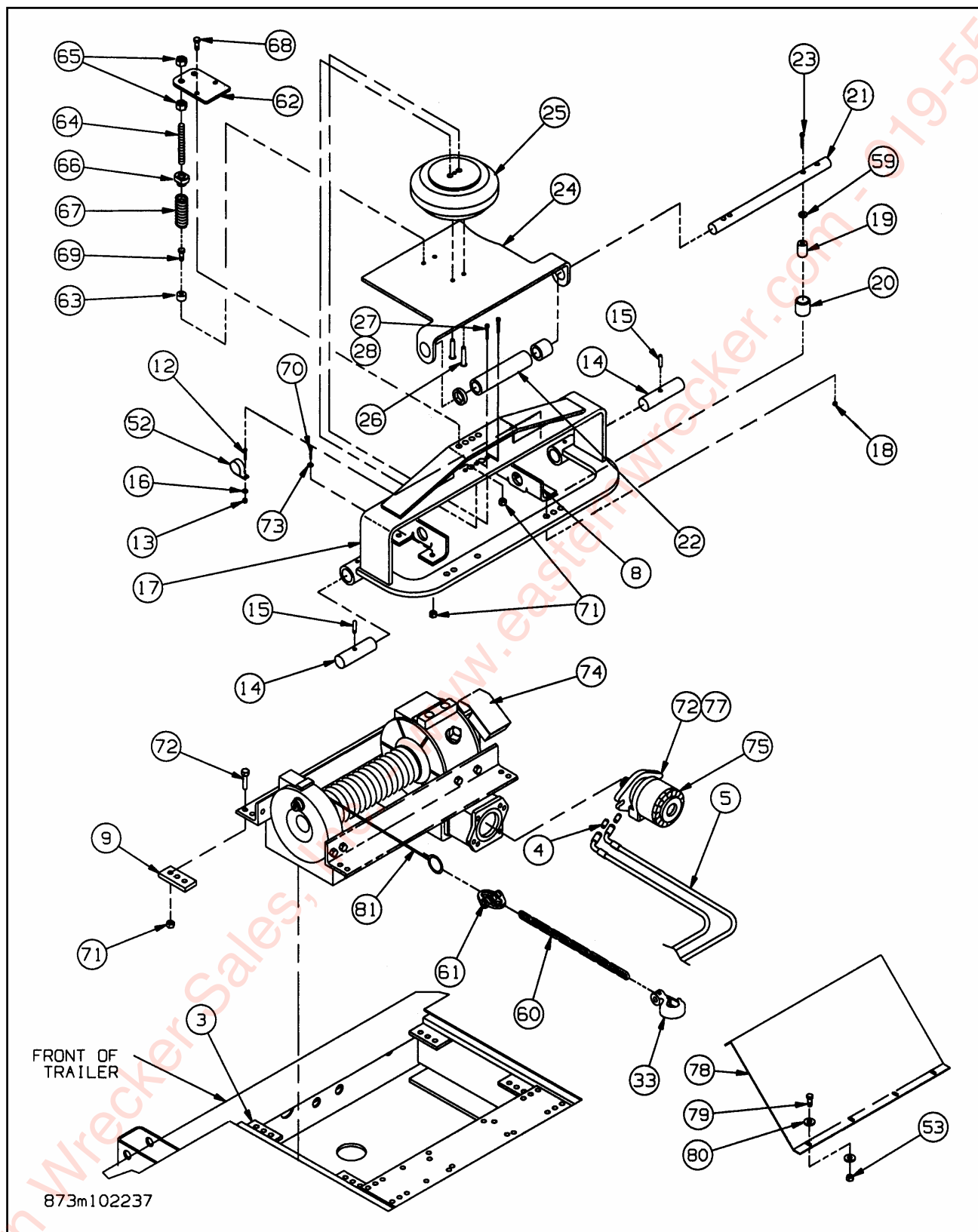


Figure 1-43 Winch Air Tension Instl. U/D 20K (1 of 2)

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	1-397-010302216	HOSE ASSEMBLY	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
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	0600-375-02000	ROLL PIN	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 1-93)	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
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
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 GRB	8
54	3-348-010048	GUARD SWITCH - 3 POSITION	1
55	3-272-010109	DIODE ZENER 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

WINCH AIR TENSION INSTALLATION 20K UPPERDECK

ITEM	PART NO.	DESCRIPTION	QTY.
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 1-86)	1
75	3-481-010007	MOTOR HYDRAULIC (SEE PAGE 1-91)	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	REF
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 3/8W	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

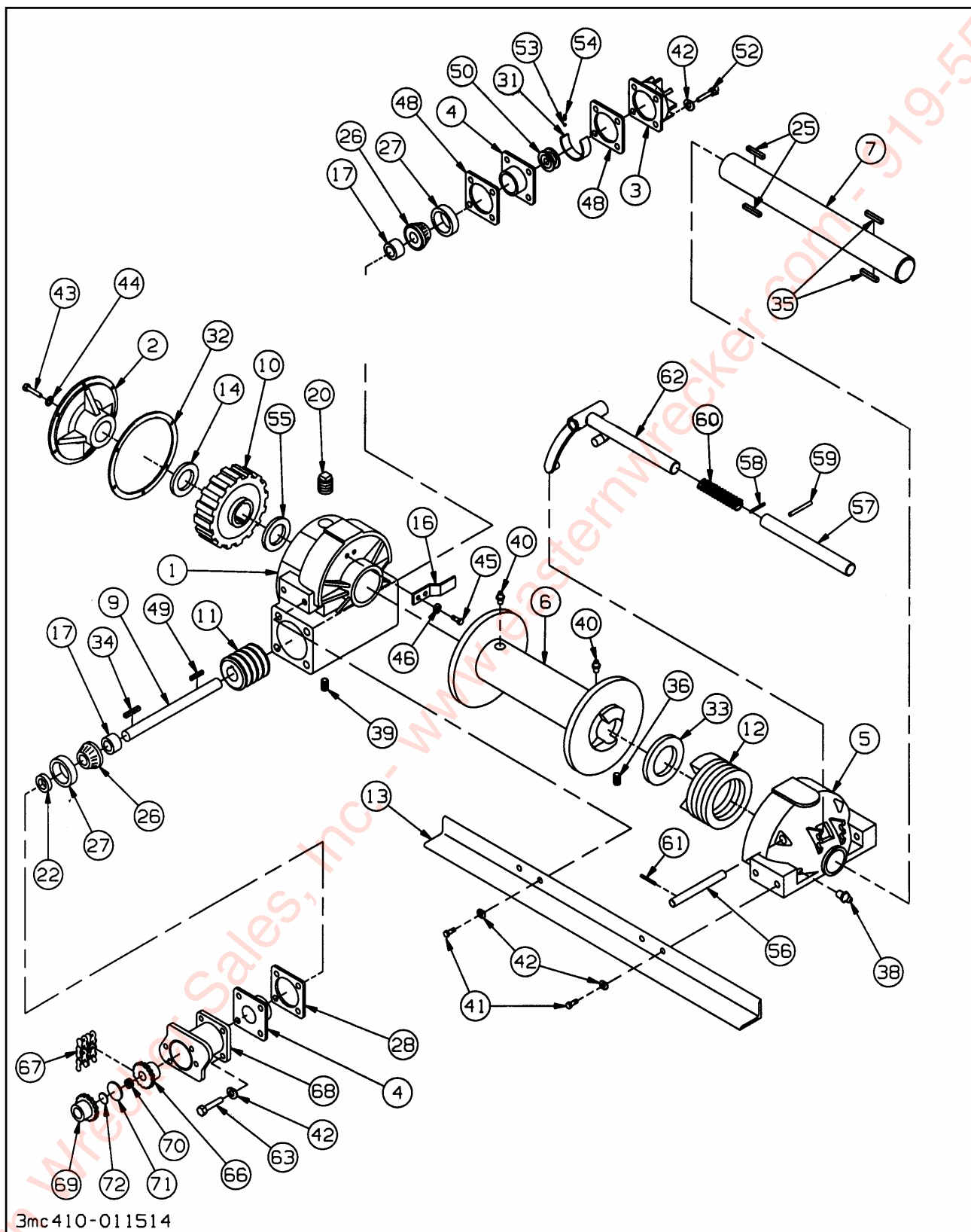


Figure 1-45 12,000# Winch Items

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010122	WINCH ASSY 12K	1
1	81006	WORM HOUSING ASSY (INCLUDES ITEM 18)	1
2	81009	COVER ASSY WORM HOUSING (INCL 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	SETSCREW	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
56	11130	SHIFTER SHAFT	1

12,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
57	12817	SHIFTER HANDLE	1
58	18056	ROLLPIN	1
59	13028	ROLL PIN	1
60	18002	SPRING	1
61	11837	ROLLPIN	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

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010123	WINCH 20000# W/BOLT-ON ANGLES	
1	81078	WORM HOUSING ASSEMBLY	1
2	81082	COVER ASSEMBLY WORM HOUSING	1
3	11449	DRUM CABLE	1
4	81077	LEG ASSEMBLY BEARING	1
5	11434	WORM GEAR RIGHT	1
6	11421	CLUTCH SLIDING	1
7	11419	DRIVE CLUTCH	1
8	11404	WORM RIGHT	1
9	11405	SHAFT WORM	1
10	11414	SHAFT CABLE DRUM	1
11	11440	FORK SHIFTER	1
12	11441	SHAFT SHIFTER	1
13	11442	HANDLE SHIFTER	1
14	11427	CONTAINER BEARING	2
15	11445	COVER WORM BRAKE	1
16	18035	BUSHING	2
17	11425	BUSHING	1
18	11420	RING RETAINING	2
19	22055	DRUM KEY CABLE	4
20	11402	KEY WORM	1
21	11407	SPACER WORM	2
22	23367	KEY SPROCKET	1
23	10078	KEY ROTOR	1
27	81080	ROTOR ASSEMBLY BRAKE	1
28	11599	ADJUSTING NUT WORM BRAKE	1
29	12465	O-RING	1
30	19014	PLUG FILLER	1
32	11026	WASHER LOCK	10
34	81081	SPRING ASSEMBLY SAFETY BRAKE	1
36	11431	PLATE PRESSURE	1
37	18022	KNOB SHIFTER	1
38	11429	GASKET	4
39	11446	GASKET	2
40	18033	BEARING CONE	2
41	18034	BEARING CUP	2
42	12073	SEAL GREASE	1
43	12783	BRACKET SHIFTER	1
44	11411	COVER GASKET HOUSING	1
45	19045	PLUG DRAIN	1
46	18047	FITTING GREASE	1
48	22775	PLUG VENT	1
49	18009	PLUG LEVEL	1
50	11430	GASKET	4
51	11310	SPRING SHIFTER KNOB	1
52	11309	STEM SHIFTER KNOB	1
54	28942	ANGLE FRONT BASE	1
55	28943	ANGLE REAR BASE	1
56	13938	CAPSCREW	16
57	12781	WASHER LOCK	8
59	11025	WASHER LOCK	3

20,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
60	22695	CAPSCREW	4
61	21965	CAPSCREW	6
62	12146	PLUG EXPANSION	A/R
63	13028	ROLLPIN	A/R
64	11398	SCREW ADJUSTING	1
65	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	DISC FRICTION	2
73	11791	NUT JAM	1
75	12767	PLUG EXPANSION	A/R
76	22729	CAPSCREW	2
77	23245	SAE PLATE-AMU7-16F	1
78	23310	PLATE WARNING	1
79	11842	SCREW DRIVE	4
80	12228	SCREW SET	1
90	11435	INSERT THREAD	8
91	11014	LOCKWASHER	1
92	22697	CAPSCREW	5
93	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

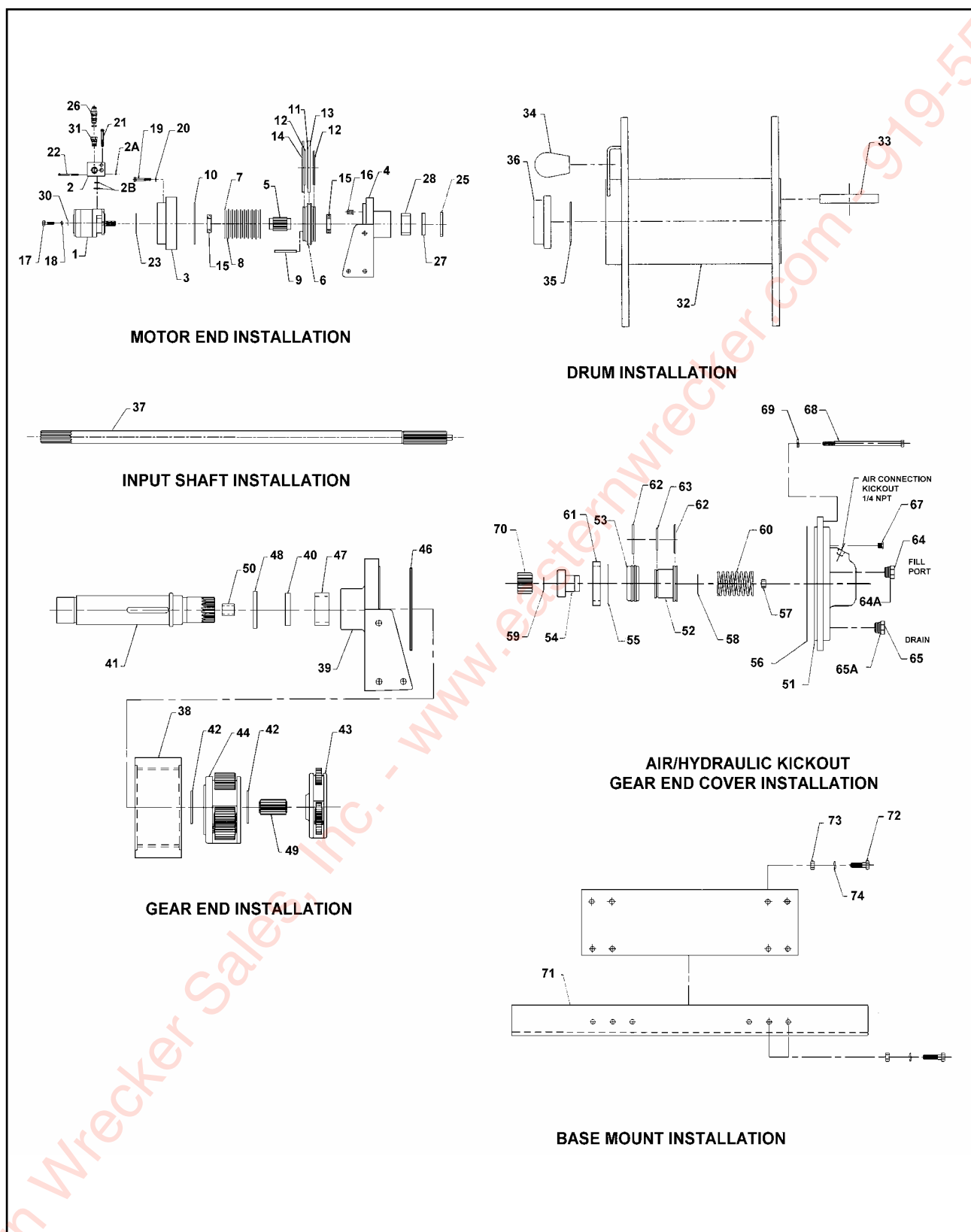


Figure 1-47 30,000# Winch Items

30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
	3-873-010154	WINCH 30K ITEMS	
		MOTOR END INSTALLATION	
1	73174	MOTOR, HYDRAULIC	1
2	13330	VALVE, COUNTERBALANCE	1
2A	9612	O-RING, 1/8 I.D. X 3/32 SECTION	2
2B	9972	O-RING, 5/8 I.D. X 13/16 X 3/32 SECTION	2
3	13316	BRAKE HOUSING	1
4	13299	SUPPORT MOTOR END	1
5	11750	SHAFT BRAKE	1
6	11443	PISTON BRAKE	1
7	11603	PLATE DISC FRICTION	10
8	3159	PLATE DRIVE BRAKE	9
9	3263	PIN DOWEL 5/16 DIA. X 3-1/2	2
10	9844	O-RING, 7 O.D. X 6-3/4 I.D.	1
11	9853	O-RING, 6-1/2 I.D. X 3/16 SECTION	1
12	9851	O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION	2
13	9854	RING, BACK-UP	1
14	9852	RING, BACK-UP 5-3/8 I.D.	1
15	81434	BEARING BALL 1-3/4 I.D.	2
16	2319	SPRING COMPRESSION	12
17	1402	CAP SCREW HEX HEAD 1/2-13 X 1-1/4	2
18	1495	WASHER LOCK 1/2	2
19	1376	SCREW CAP HEX HEAD 7/16 X 2-1/2	6
20	1388	WASHER LOCK 7/16	6
21	1188	SCREW CAP SOCKET HEAD 5/16 X 3	4
22	4042	SCREW CAP SOCKET HEAD 1/4-20 X 3-3/4	1
23	9880	O-RING 3 I.D. X 1/8 SECTION	1
24	10708	TAG WARNING (NOT SHOWN)	1
25	9890	SEAL SHAFT	1
26	3177	CARTRIDGE COUNTERBALANCE	1
27	13288	WASHER THRUST BRONZE	1
28	81454	BEARING -TORRINGTON	1
30	1498	WASHER FLAT 1/2 SAE	2
31	13356	ASSEMBLY PLUG	1
		DRUM INSTALLATION	
32	13285	DRUM	1
33	11977	KEY DRUM	2
34	10525	WEDGE CABLE 5/8	1
35	9672	O-RING 2-5/8 ID X 1/8 W	1
36	13286	SPACER	1
		INPUT SHAFT INSTALLATION	
37	13317	SHAFT INPUT	1
		GEAR END INSTALLATION	
38	3126	GEAR RING	1
39	13300	SUPPORT GEAR END	1
40	13288	WASHER THRUST	1
41	13301	SHAFT OUTPUT	1
42	13164	WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION	2
43	12486	CARRIER ASSEMBLY PRIMARY	1

30,000# WINCH ITEMS

ITEM	PART NO.	DESCRIPTION	QTY.
44	12516	CARRIER ASSEMBLY SECONDARY	1
45	10848	LABEL WARNING (NOT SHOWN)	1
46	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
47	81454	BEARING	1
48	9890	SEAL SHAFT	1
49	13306	GEAR SUN	1
50	81608	BUSHING ID 1-1/4 OD X 1 LG	1
AIR/HYD. KICKOUT GEAR END COVER INSTALLATION			
51	13675	COVER GEAR END	1
52	13295	PISTON AKO B/C/D	1
53	13296	CYLINDER PISTON	1
54	13297	COUPLING DRIVE	1
55	3632	RING RETAINING RD SEC 3 O.D. X .10 SEC	1
56	9695	O-RING 8-3/4 I.D. X 1/8 SECTION	1
57	81612	BUSHING BRONZE 3/8 I.D. X 3/8 L	1
58	3303	RING RETAINING 1-1/4	1
59	3321	RING RETAINING RD SEC .805 I.D.	1
60	2309	SPRING COMPRESSION	1
61	13288	WASHER THRUST BRONZE 3.81 X .406 W	1
62	9672	O-RING 2-5/8 I.D. X 1/8 SECTION	2
63	9704	O-RING 2-1/8 I.D. X 2-3/8 O.D.	1
64	76344	PLUG SKT HD O-RING #10 7/8 - 14	1
64A	9992	O-RING .755 I.D. X .097 W 3-910	1
65	76343	PLUG SKT HD O-RING MAG #10	1
65A	9992	O-RING .755 I.D. X .097 W 3-910	1
66	1157	CAPLUG #4 RED (NOT SHOWN)	1
67	3059	RELIEF VENT	1
68	1317	SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2	12
69	1395	WASHER LOCK 3/8	12
70	13235	GEAR SUN AKO	1
BASE MOUNT INSTALLATION			
71	14068	BASE MOUNT CUSTOM - B SERIES - A LENGTH	2
72	1505	SCREW CAP HEX HAD 5/8-11 X 2-1/4 GR5	12
73	1590	NUT HEX 5/8 - 11 GR2	12
74	1595	WASHER LOCK 5/8 MEDIUM PLAIN	12
75	1165	RIVET DRIVE U TYPE #2 X 1/4 LONG (NOT SHOWN)	4
76	10466	PLATE INFORMATION (NOT SHOWN)	1

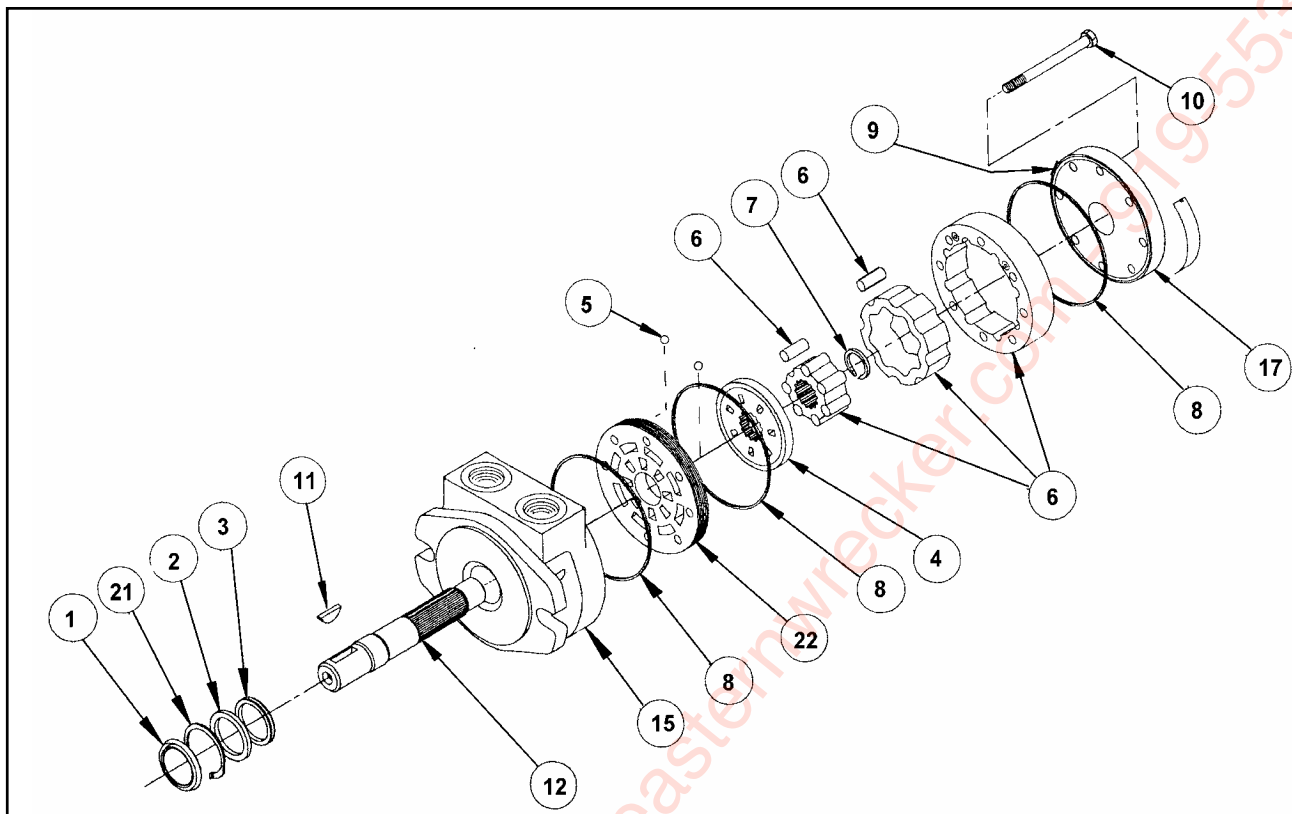


Figure 1-48 Winch Motor Assembly

WINCH MOTOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-481-010006	MOTOR HYD. (FOR 12K WINCH)	1
	3-481-010007	MOTOR HYD. (FOR 20K 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 ASSEMBLY (FOR 20K WINCH)	1
	1004-3	IGR ASSEMBLY (FOR 12K WINCH)	1
7	1296	SNAP RING	1
8	1046	SQUARE RING SEAL	3
9	1019-4	PLUG VENT W/O-RING	1
10	1014-4	BOLTS HEX (FOR 20K WINCH)	8
	1114-5	BOLTS HEX (FOR 12K WINCH)	
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	SEAL KIT BODY	1
	2480	SEAL KIT BODY VITON	1

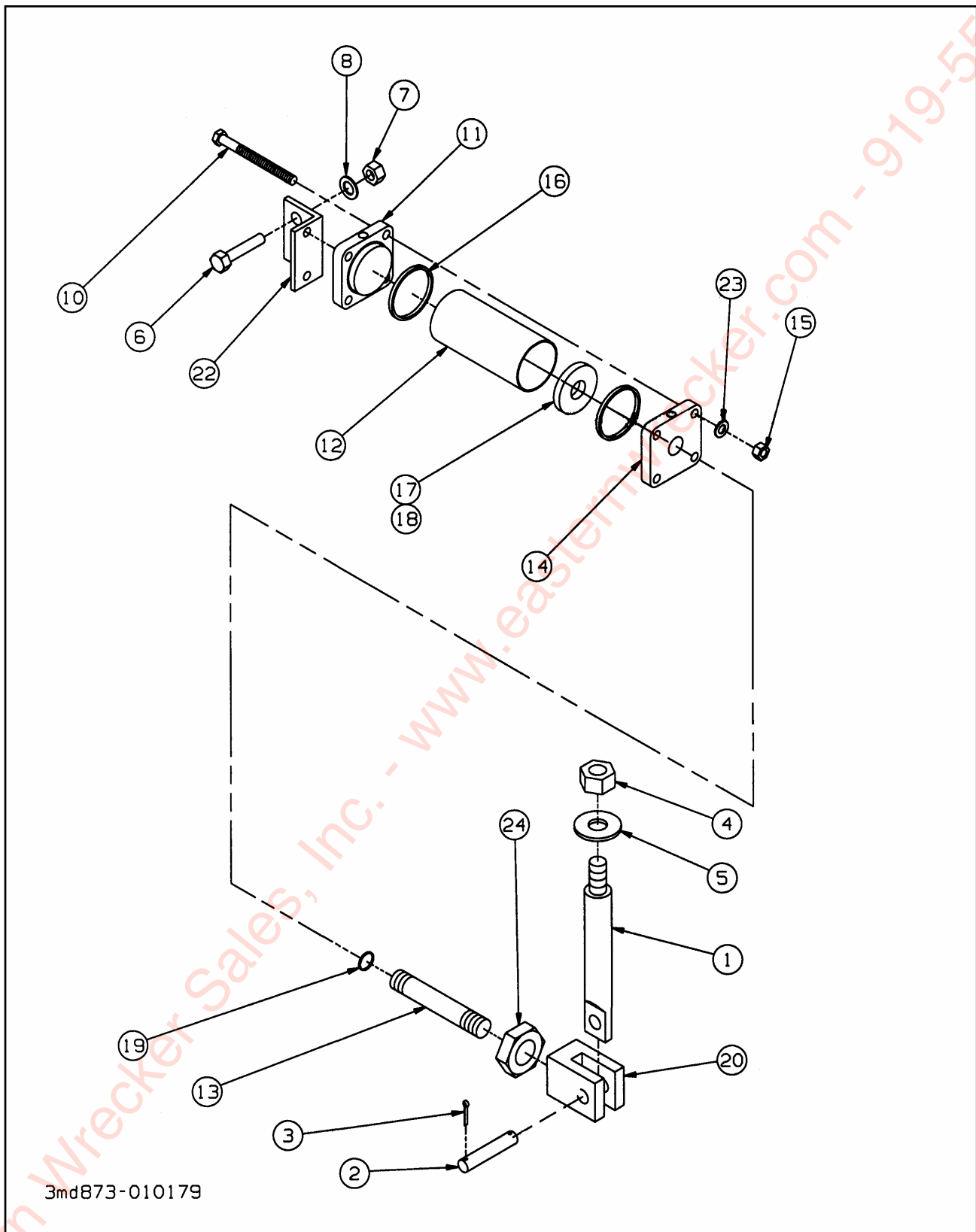


Figure 1-49 Winch Air Shift Cylinder

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	1
5	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
6	1-654-010055-01	SCREW, HEX HEAD CAP1/2-13 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	

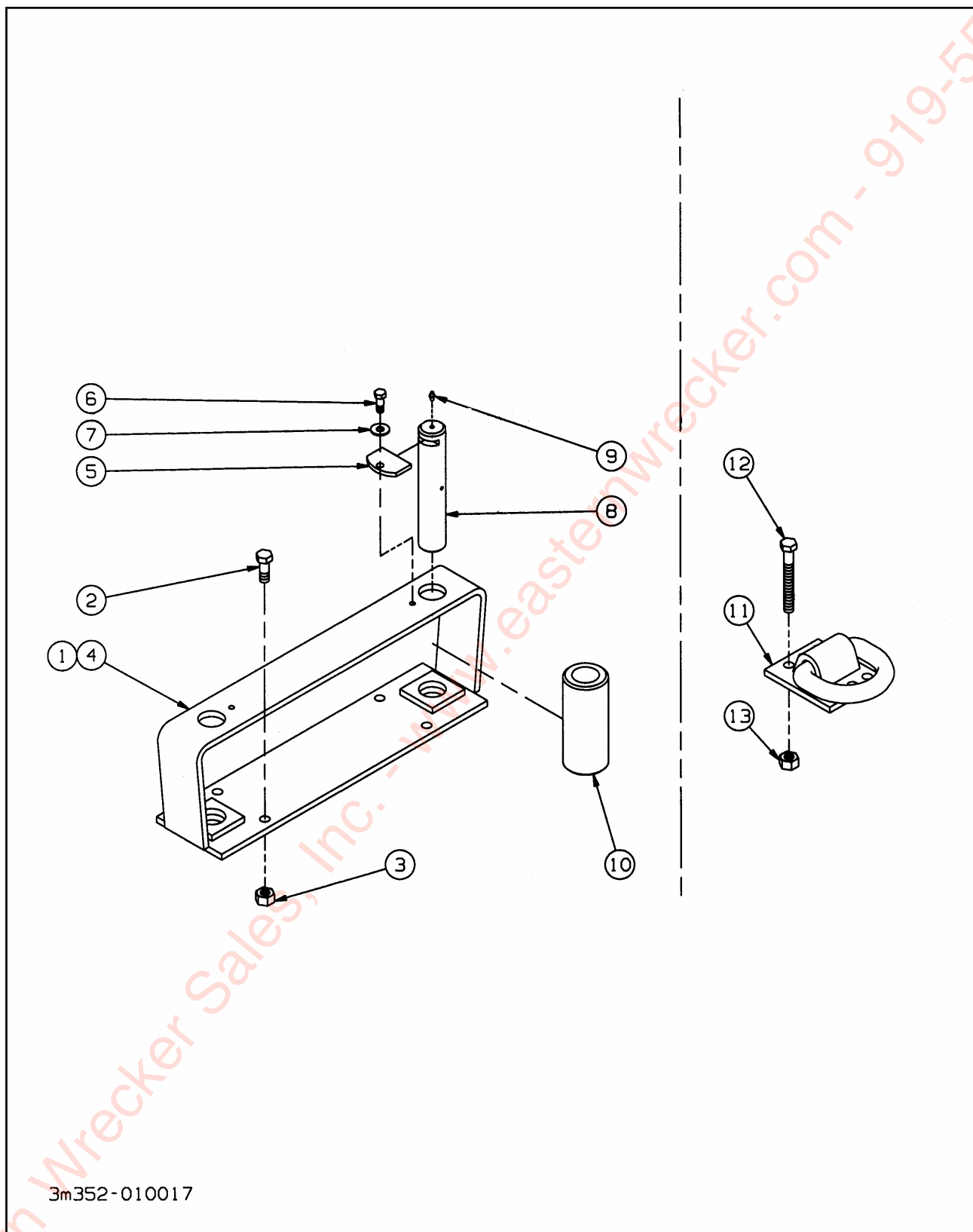


Figure 1-50 Winch Cable Roller Guide (Optional)

WINCH CABLE ROLLER GUIDE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-352-010017-1	GUIDE INSTALLATION WINCH 12K	
	3-352-010017-2	GUIDE INSTALLATION WINCH 20K	
	3-352-010062	GUIDE INSTALLATION WINCH 30K	
1	3-352-010015-3	GUIDE ASSY WINCH 12K (SEE ITEMS 4-10)	1
	3-352-010015-4	GUIDE ASSY WINCH 20K (SEE ITEMS 4-10)	1
	3-352-010061	GUIDE ASSY WINCH 30K (SEE ITEMS 4-10)	
2	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	4
	1-654-010059-05	SCREW HEX HEAD CAP 5/8-11 X 2 GR5 (30K ONLY)	2
3	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB (30K ONLY)	
4	3-120-010295	BRACKET WELDMENT 12K ROLLER GUIDE	1
	3-120-010294	BRACKET WELDMENT 20K ROLLER GUIDE	1
	3-120-010478	BRACKET WELDMENT 30K ROLLER GUIDE	1
5	3-565-010770	PLATE CABLE GUIDE LOCK	2
6	1-654-010051-03	SCREW HEX HEAD CAP 3/8-16 X 3/4 GR5	2
7	1-861-010034-11	WASHER SPLIT LOCK 3/8	2
8	3-557-010383	PIN CABLE GUIDE ROLLER	2
9	1-298-010001-1	FITTING GREASE 1/4-28	2
10	3-645-010049	ROLLER WINCH CABLE GUIDE	2
D-RING BOLT-ON			
	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	
11	3-793-010040	TIE DOWN, WINCH	1
12	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	6
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6

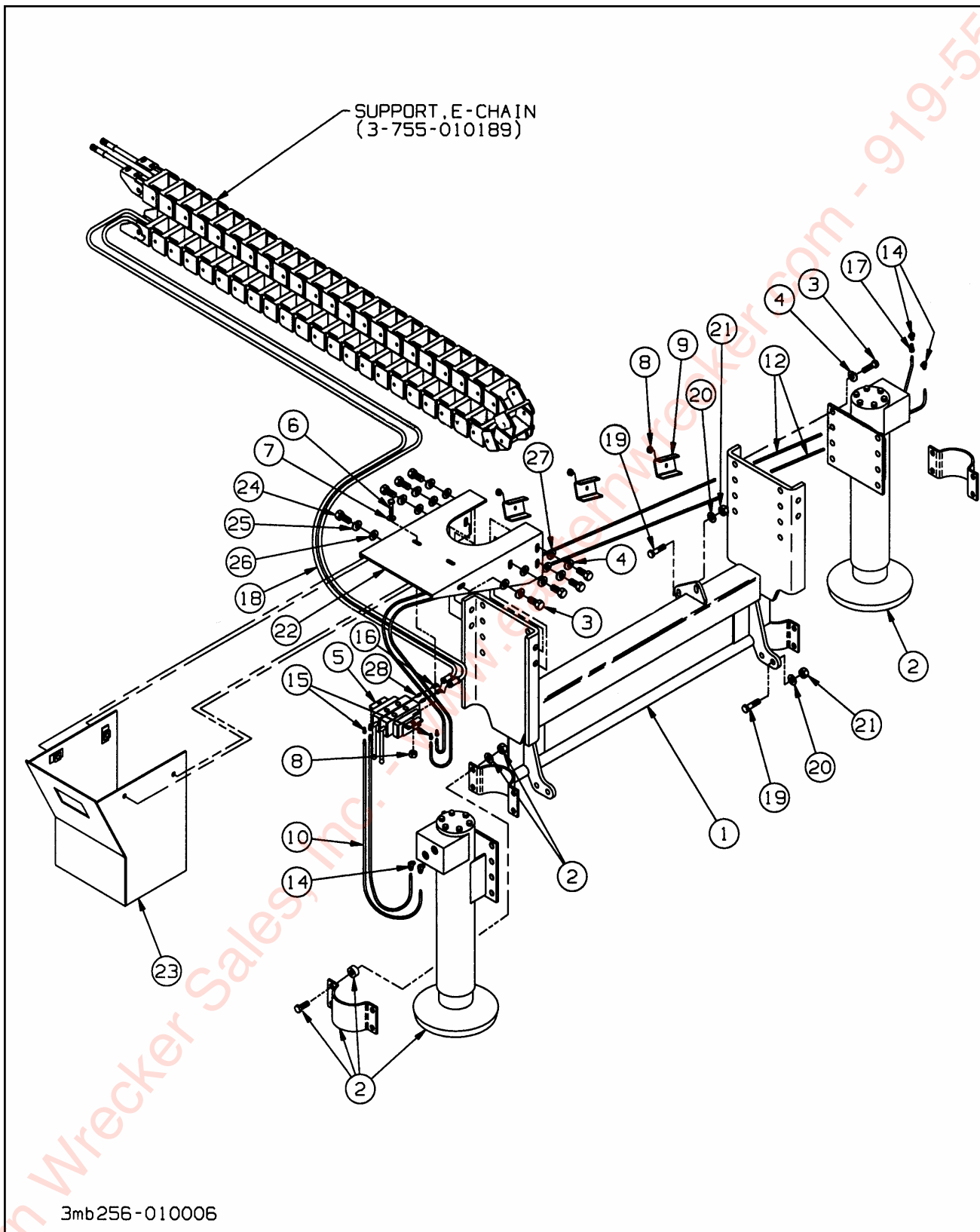


Figure 1-51 Dock Leveler - Air Ride (317B & 319B)

DOCK LEVELER - AIR RIDE (317B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-256-010006-01	DOCK LEVEL ASSEMBLY 40K	
	3-256-010006-02	DOCK LEVEL ASSEMBLY 60K	
1	3-482-010150	MOUNT WELDMENT DOCK LEVEL STD	1
	3-482-010352	MOUNT WELDMENT DOCK LEVEL HD	1
2	3-242-010204	CYLINDER HYDRAULIC (SEE PAGE 1-109)	2
	3-242-010205	CYLINDER HYDRAULIC (SEE PAGE 1-109)	2
3	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11 X 1 GR5	20,24*
4	1-861-010034-15	WASHER SPLIT LOCK 5/8	20,24*
5	3-846-010056	VALVE DOUBLE SPOOL (SEE PAGE 1-107)	1
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	2
7	1-861-010032-11	WASHER FLAT 3/8 FW	2
8	1-510-010001	NUT FLANGE LOCK 3/8-16	6
9	2-181-010001	HOSE CLAMP	4
10	1-397-010262-4	HOSE ASSEMBLY	2
12	1-397-010262084	HOSE ASSEMBLY	2
14	2062-6-4S	ADAPTER 90	4
15	202702-6-4S	ADAPTER STR	4
16	2061-6-6S	ADAPTER 45 O-RING - TUBE	REF
17	1-007-010058	ADAPTER HYDRAULIC - RESTR. (60K)	2
18	1-397-010307216	HOSE ASSEMBLY	2
19	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
20	1-861-010032-14	WASHER FLAT 1/2N	8
21	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
22	3-120-010351	BRACKET BOLT ON DOCK LEVEL	1
23	3-681-010098	SHIELD D/L VALVE	1
24	1-654-010055-02	SCREW 1/2-13 X 1-1/4 GR5	4
25	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
26	1-861-010032-15	WASHER FLAT 1/2W	4
27	1-861-010032-18	WASHER FLAT 5/8N	4
28	202702-6-6S	ADAPTER STR	2

* FIRST QUANTITY IS FOR THE 40K , SECOND QUANTITY IS FOR THE 60K.

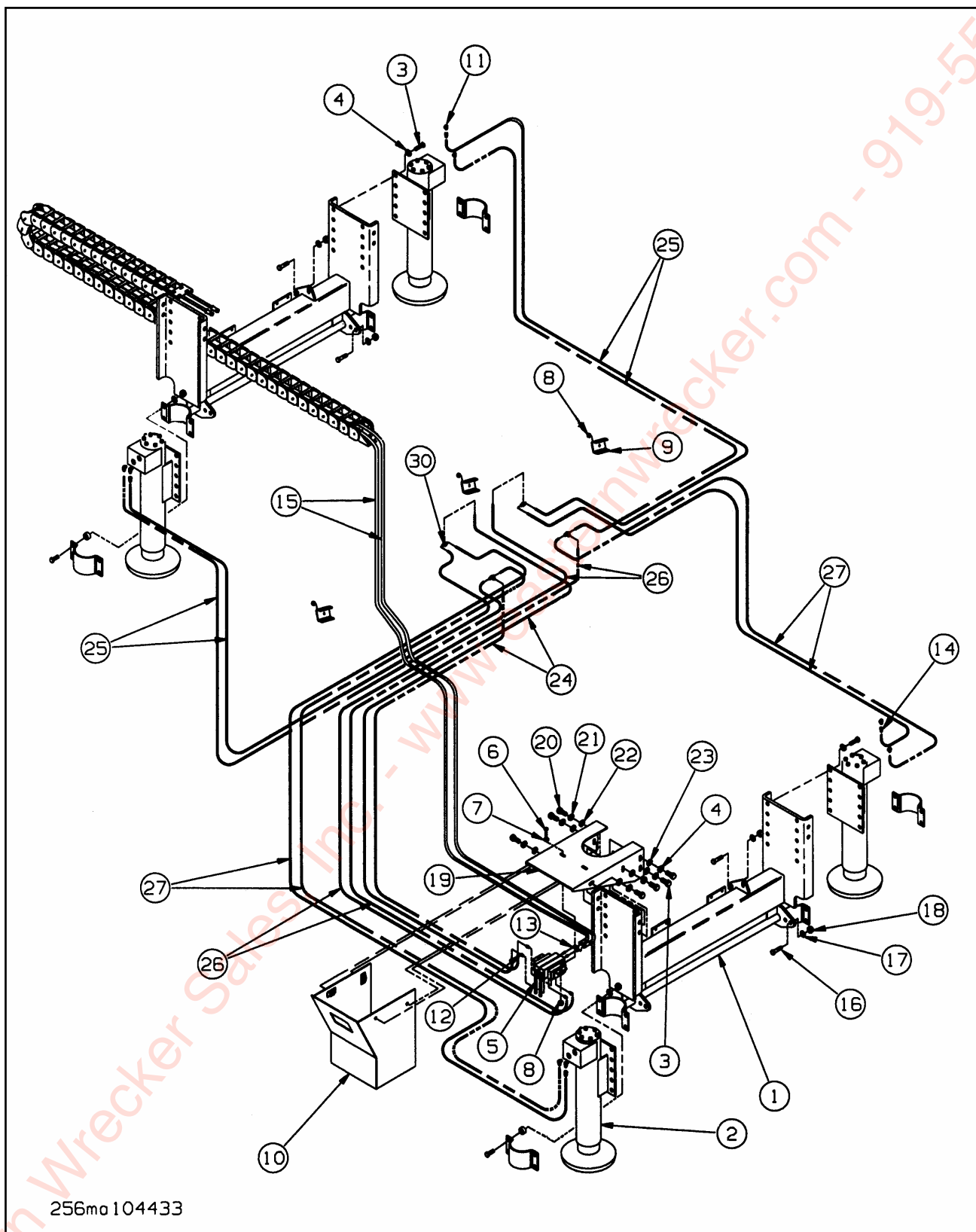


Figure 1-52 Dock Leveler - Air Ride (318B)

DOCK LEVELER - AIR RIDE DOUBLE 60K (318B)

ITEM	PART NO.	DESCRIPTION	QTY.
	104433	DOCK LEVEL ASSEMBLY DBL 60K	
1	3-482-010472	MOUNT WELDMENT DOCK LEVELER	1
2	3-242-010205	CYLINDER HYDRAULIC 4 X 15 (SEE PAGE 1-109)	2
3	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11 X 1 GR5	44
4	1-861-010034-15	WASHER FLAT 3/8FW	44
5	3-846-010056	VALVE DOUBLE SPOOL (SEE PAGE 1-107)	1
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	2
7	1-861-010032-11	WASHER FLAT 3/8FW	2
8	1-510-010001	NUT FLANGE LOCK 3/8-16 GRB	8
9	2-181-010001	HOSE CLAMP	6
10	3-681-010098	SHIELD D/L VALVE	1
11	2062-6-4S	ADAPTER 90	8
12	202702-6-4S	ADAPTER STR	4
13	2061-6-6S	ADAPTER HYDRAULIC 45 O-RING - TUBE	2
14	1-007-010058	ADAPTER HYDRAULIC - RESTR.	4
15	1-397-010307216	HOSE ASSEMBLY	2
16	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	16
17	1-861-010032-14	WASHER FLAT 1/2N	16
18	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	16
19	3-120-010351	BRACKET BOLT-ON	1
20	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
21	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
22	1-861-010032-15	WASHER FLAT 1/2W	4
23	1-861-010032-18	WASHER FLAT 1/2W	4
24	1-397-010262036	HOSE ASSEMBLY	2
25	1-397-010262086	HOSE ASSEMBLY	4
26	1-397-010262048	HOSE ASSEMBLY	2
27	1-397-010262028	HOSE ASSEMBLY	4
30	2033-4-4S	ADAPTER TEE	4

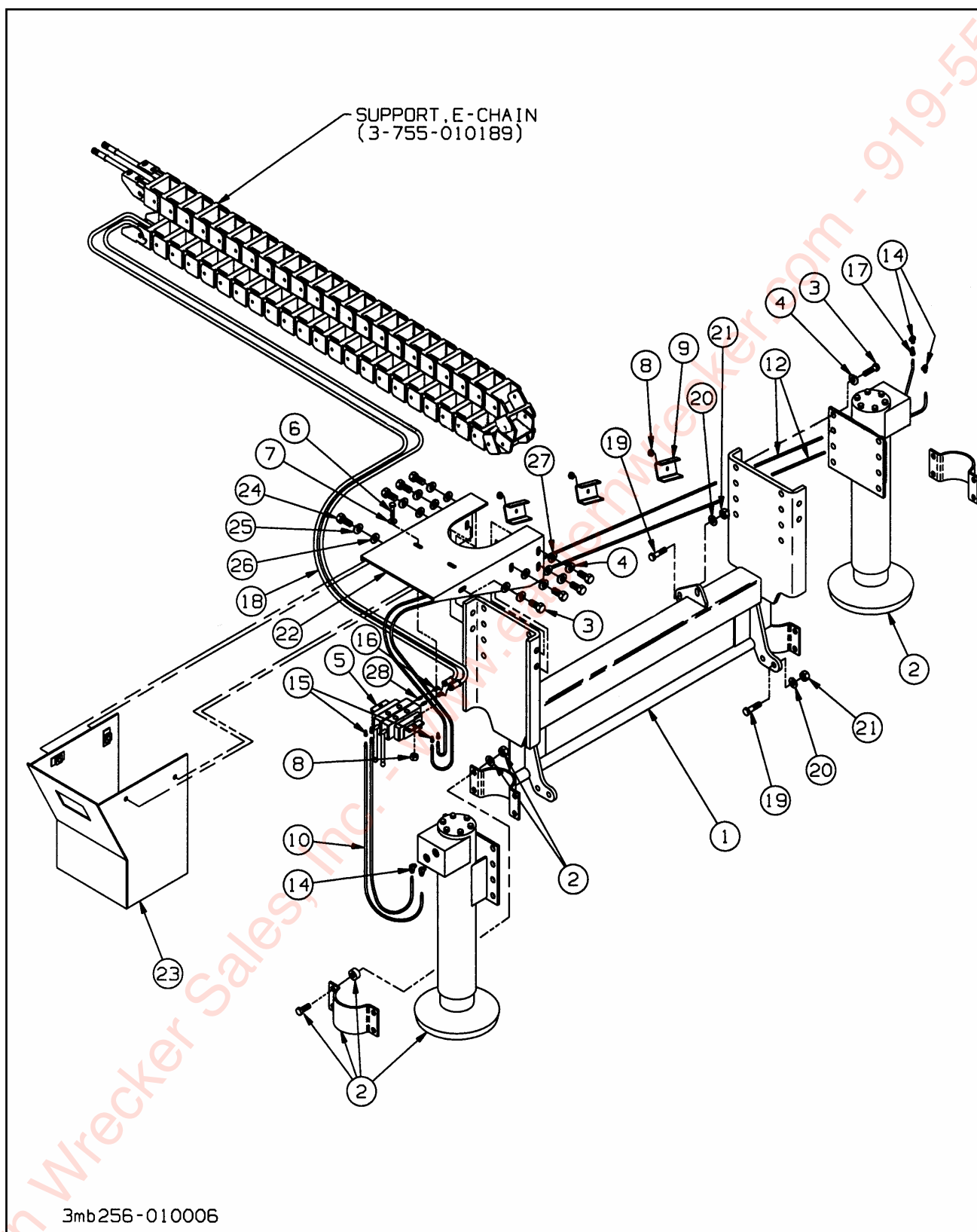


Figure 1-53 Dock Leveler - Air Ride (318B)

DOCK LEVELER - AIR RIDE SINGLE 60K (318B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-256-010003-02	DOCK LEVEL ASSEMBLY SINGLE 60K	
1	3-482-010472	MOUNT WELDMENT DOCK LEVELER	1
2	3-242-010205	CYLINDER HYDRAULIC 4 X 15 (SEE PAGE 1-109)	2
3	1-654-010059-01	SCREW HEX HEAD CAP 5/8-11 X 1 GR5	24
4	1-861-010034-15	WASHER FLAT 3/8FW	24
5	3-846-010056	VALVE DOUBLE SPOOL (SEE PAGE 1-107)	1
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	2
7	1-861-010032-11	WASHER FLAT 3/8FW	2
8	1-510-010001	NUT FLANGE LOCK 3/8-16 GRB	5
9	2-181-010001	HOSE CLAMP	3
10	1-397-010262-4	HOSE ASSEMBLY	2
12	1-397-010262-3	HOSE ASSEMBLY	2
14	2062-6-4S	ADAPTER 90	4
15	202702-6-4S	ADAPTER STR	6
16	1-007-010041-1	ADAPTER HYDRAULIC 45	2
17	1-007-010058	ADAPTER HYDRAULIC - RESTR.	4
18	1-397-010262-5	HOSE ASSEMBLY	2
19	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	8
20	1-861-010032-14	WASHER FLAT 1/2N	8
21	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
22	3-120-010351	BRACKET BOLT-ON	1
23	3-681-010098	SHIELD D/L VALVE	1
24	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
25	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
26	1-861-010032-15	WASHER FLAT 1/2W	4
27	1-861-010032-18	WASHER FLAT 1/2W	4

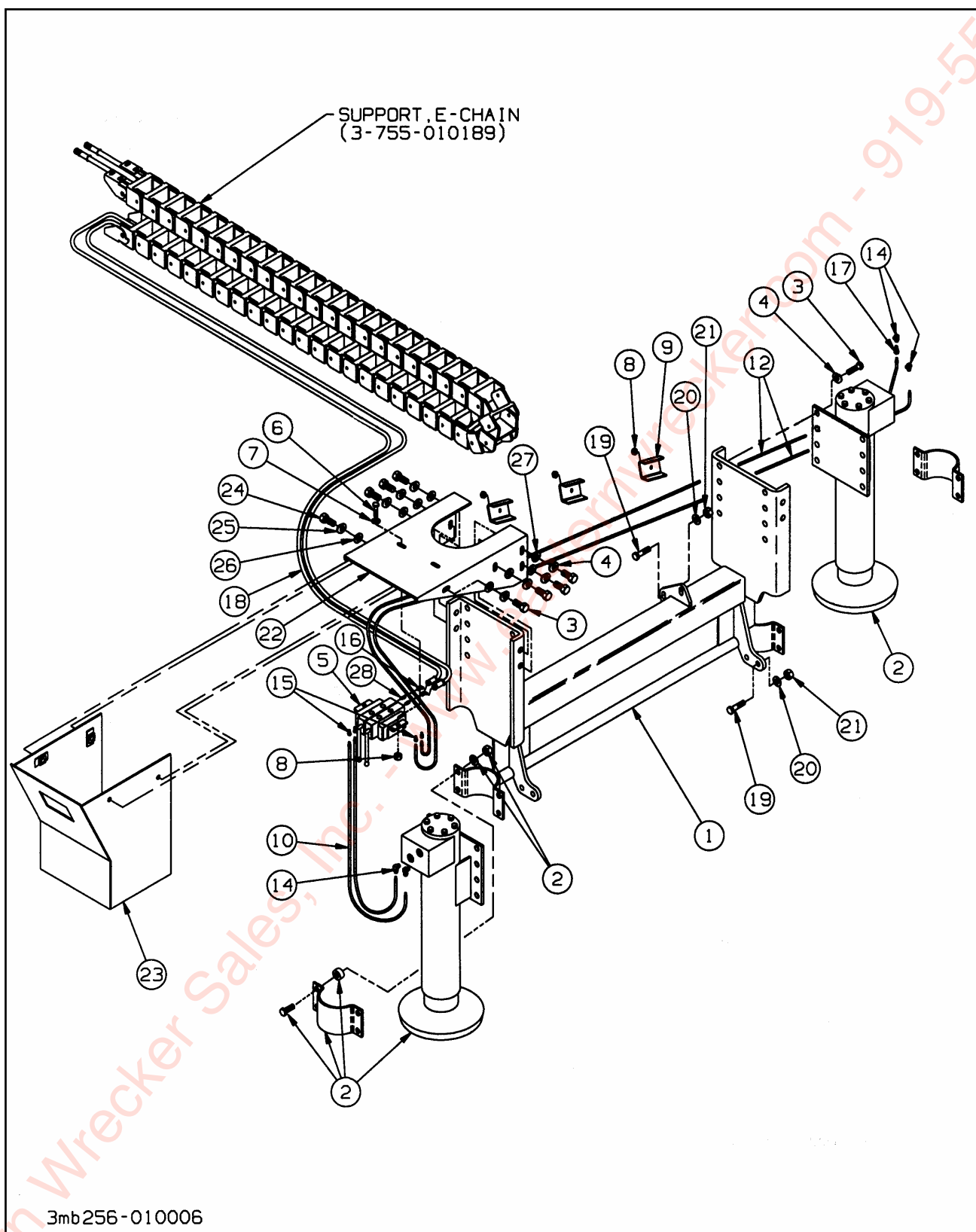


Figure 1-54 Dock Leveler - Spring Ride

DOCK LEVELER - SPRING RIDE

ITEM	PART NO.	DESCRIPTION	QTY.
	3-256-010006-04	DOCK LEVEL ASSEMBLY 40K	
2	3-242-010204	CYLINDER HYDRAULIC 3.5 X 15 (SEE PAGE 1-109)	2
3	1-654-010059-01	SCREW HEX HEAD CAP 5/8-1 1X 1 GR5	24
4	1-861-010034-15	WASHER SPLIT LOCK 5/8	24
5	3-846-010056	VALVE DOUBLE SPOOL (SEE PAGE 1-107)	1
6	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	2
7	1-861-010032-11	WASHER FLAT 3/8W	2
8	1-510-010001	NUT FLANGE LOCK 3/8-16	6
9	2-181-010001	HOSE CLAMP	4
10	1-397-010262-4	HOSE ASSEMBLY	2
12	1-397-010262084	HOSE ASSEMBLY	2
14	2062-6-4S	ADAPTER 90	4
15	202702-6-4S	ADAPTER STR	4
16	2061-6-6S	ADAPTER 45 O-RING - TUBE	REF
18	1-397-010307216	HOSE ASSEMBLY	2
22	3-120-010351	BRACKET BOLT-ON	1
23	3-681-010098	SHIELD D/L VALVE	1
24	1-654-010055-02	SCREW HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
25	1-861-010034-13	WASHER SPLIT LOCK 1/2	4
26	1-861-010032-15	WASHER FLAT 1/2W	4
27	1-861-010032-18	WASHER FLAT 5/8N	4
28	202702-6-6S	ADAPTER STR	2
29	3-125-010336	MOUNTING BRACKET	2
30	1-654-010059-04	SCREW HEX HEAD CAP 5/8-11 X 1-1/4 GR5	12
31	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	12

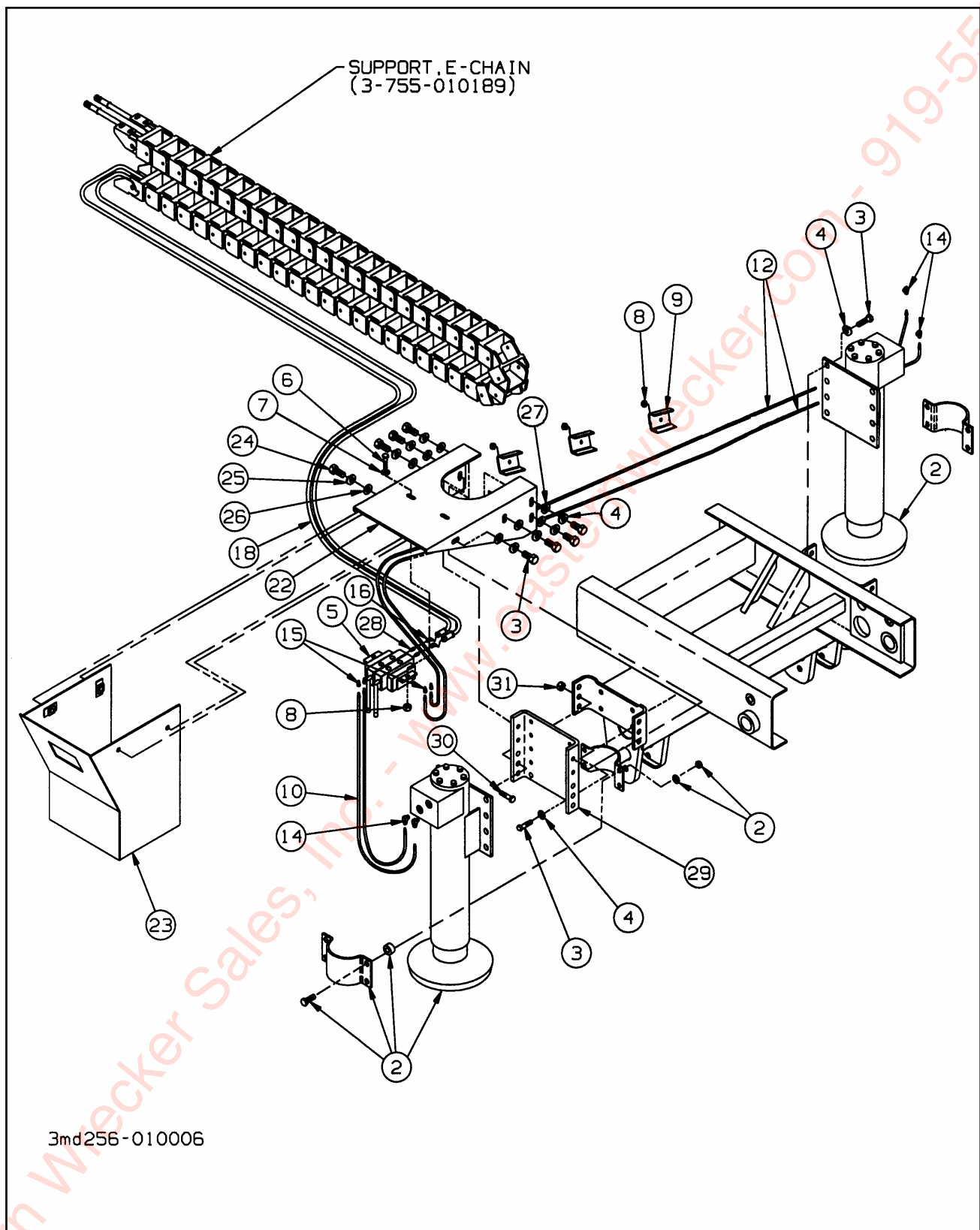


Figure 1-55 Dock Leveler, Hydraulic (Optional)

DOCK LEVELER HYDRAULIC (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-407-010066	DOCK LEVEL HYDRAULIC INSTALLATION	
1	3-482-010267	MOUNT FLOW REGULATOR	1
2	1-397-010304029	HOSE ASSEMBLY 3/4 X 29	1
3	3-846-010120	VALVE HYDRAULIC SELECTOR 3-WAY	1
4	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	4
5	1-861-010032-09	WASHER FLAT 5/16	4
6	1-654-010049-09	SCREW HEX HEAD CAP 5/16-18 X 2 GR5	2
7	206209-12-12S	ADAPTER 90 LONG #12 O-RING TUBE	1
8	2062-12-8S	ADAPTER 90 #12 O-RING #8 TUBE	1
9	0018127	FITTING BULKHEAD UNION	2
10	1-397-010301028	HOSE ASSEMBLY 1/2 X 28	1
11	2062-8-8S	ADAPTER 90 #8 O-RING TUBE	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 GR5	2
14	1-397-010309174	HOSE ASSEMBLY 3/8 X 174 (317B-45)	1
	1-397-010309210	HOSE ASSEMBLY 3/8 X 210 (317B-48)	1
	1-397-010309246	HOSE ASSEMBLY 3/8 X 246 (317B-50)	1
	1-397-010309282	HOSE ASSEMBLY 3/8 X 282 (317B-53)	1
	1-387-010306260	HOSE ASSEMBLY 3/8 X 260 (318B-48)	1
	104328	HOSE ASSEMBLY 3/8 X 276 (318B-50)	1
	104329	HOSE ASSEMBLY 3/8 X 312 (318B-53)	1
15	2062-8-6S	ELBOW 90	1
16	1-397-010307174	HOSE ASSEMBLY 3/8 X 174 (317B-45)	1
	1-397-010307210	HOSE ASSEMBLY 3/8 X 210 (317B-48)	1
	1-397-010307246	HOSE ASSEMBLY 3/8 X 246 (317B-50)	1
	1-397-010307282	HOSE ASSEMBLY 3/8 X 282 (317B-53)	1
	104330	HOSE ASSEMBLY 3/8 X 258 (318B-48)	1
	104331	HOSE ASSEMBLY 3/8 X 276 (318B-50)	1
	104332	HOSE ASSEMBLY 3/8 X 312 (318B-53)	1
17	1-397-010306028	HOSE ASSEMBLY 1/2 X 28(317B, 318B-48, 318B-50)	1
	1-397-010306032	HOSE ASSEMBLY 1/2 X 32 (318B-53)	1
18	203102-12-12S	ADAPTER TEE #12 SWIVEL	1
19	203005-8-8S	ADAPTER TEE #8 O-RING-TUBE	1
20	3-181-010006	HOSE CLAMP (NOT SHOWN)	A/R
21	3-573-010202	DECAL WARNING (NOT SHOWN)(SEE PG 1-114)	1
22	2062-12-12S	ADAPTER 90 #12 O-RING #12 TUBE	1

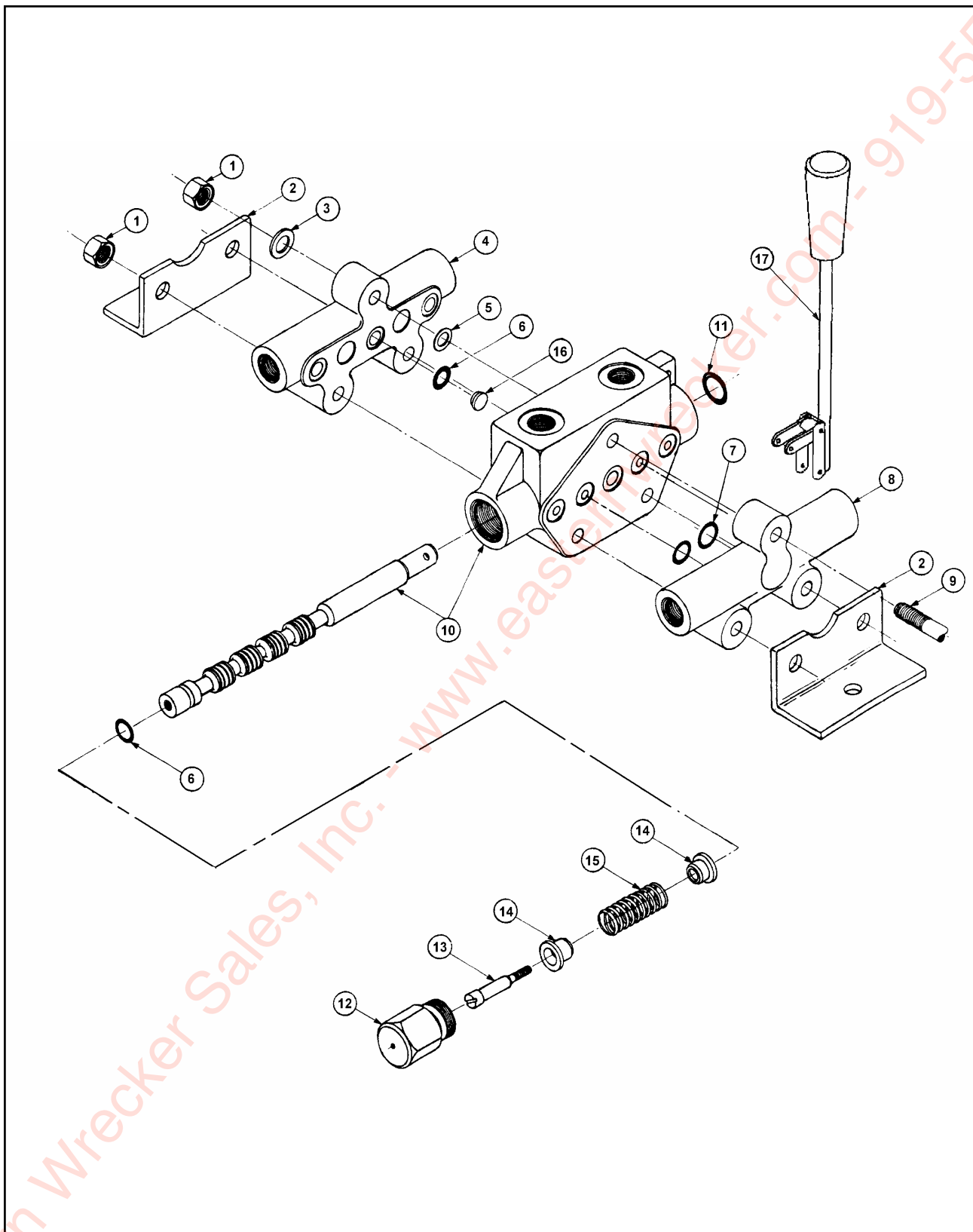


Figure 1-56 Dock Leveler Valve

DOCK LEVELER VALVE

ITEM	PART NO.	DESCRIPTION	
	3-846-010056	DOUBLE SPOOL STACK VALVE-PARALLEL	
1	1005013	NUT	3
2	4014240	MOUNTING BRACKET	2
3	1008008	WASHER	2
4	6402000	OUTLET SECTION (INCLUDES SEALS)	1
	6029521	OUTLET SEAL KIT	
5	4023150	MYLAR SHIM (BETWEEN SECTIONS)	3
6	0101012	O-RING	1
7	0101013	O-RING	10
8	6401003	INLET SECTION (INCLUDES SEALS)	1
	6009250	INLET SEAL KIT	
9	4023774	TIE ROD	3
10	6400000	VALVE SECTION	2
	6029520	VALVE SECTION SEAL KIT (INCLUDES ITEMS 5, 6, 7 & 11)	6
11	0101112	O-RING	2
12	4010500	SPRING CAP	2
13	4010520	SPRING SHAFT	2
14	4010530	SPRING GUIDE	4
15		SPRING	2
16	4011702	CLOSED CENTER PLUG	1
17	6405000	HANDLE KIT (INCLUDES ITEMS 1, 2, 3 & 9)	1
	6404002	BANKING KIT	1

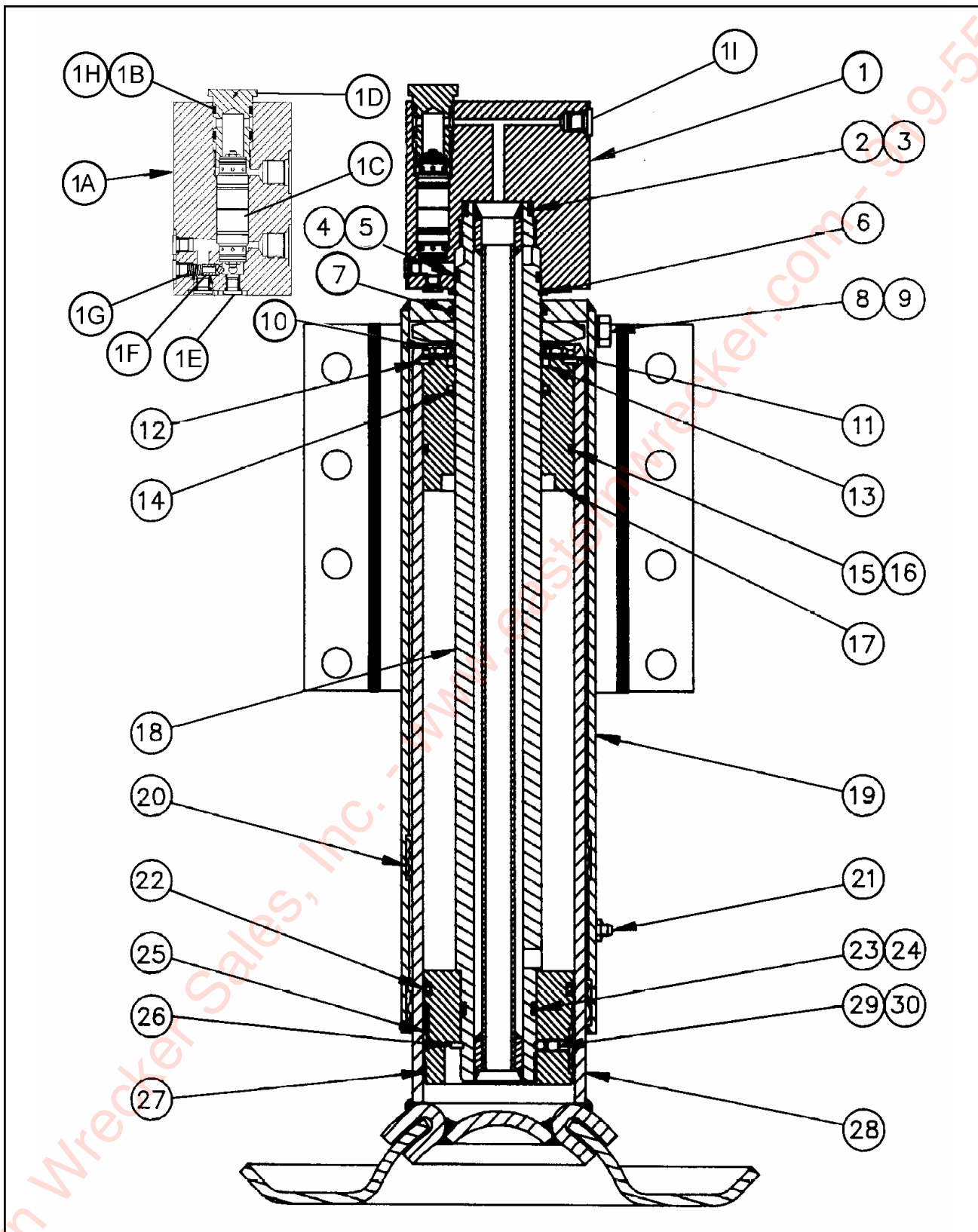


Figure 1-57 Dock Leveler Leg Assembly W/ Lock Valve

LEG ITEMS - DOCK LEVELER W/ LOCK VALVE

ITEM	PART NO.	DESCRIPTION	
	3-242-010204	COMPLETE ASSY LEG CYL(40,000# CAP. 3.50" BORE)	
	3-242-010205	COMPLETE ASSY LEG CYL(60,000# CAP. 4.00" BORE)	
1	300092	4:1 LOCK VALVE BODY	1
1A	300093	4:1 LOCK VALVE BODY	1
1B	01-1006	O-RING	2
1C	300427	PILOT OPERATED CHECK VALVE	2
1D	300022	RETAINING PLUG	1
1E	07-1061	HEX PLUG HOLLOW #02 SAE	5
1F	300003	POPPET	1
1G	31-1016	SPRING	1
1H	05-1009	BACK-UP WASHER	2
1I	07-1201	HEX PLUG HOLLOW #04 SAE	1
2	NSS**	O-RING	1
3	NSS**	BACK-UP WASHER	2
4	NSS**	O-RING	1
5	NSS**	BACK-UP WASHER	1
6	NSS**	SNAP RING 2" ROD	1
7	NSS**	O-RING	1
8	15-1004	SCREW HEX HEAD CAP (3-242-010204)	1
	15-1021	SCREW HEX HEAD CAP (3-242-010205)	1
9	16-1002	LOCK WASHER	1
10	15-1012	SCREW HEX HEAD CAP	4
11	100278	CYLINDER HEAD RETAINER (3-242-010204)	1
	100279	CYLINDER HEAD RETAINER (3-242-010205)	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	100216	CYLINDER HEAD (3-242-010204)	1
	100276	CYLINDER HEAD (3-242-010205)	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	100216	PISTON (3-242-010204)	1
	100276	PISTON (3-242-010205)	1
28	***	CYLINDER TUBE	1
29	NSS**	NYLON BALL	1
30	NSS**	SET SCREW	1
31	100346	SPLIT COLLAR ASSEMBLY	1
	100348	SPLIT COLLAR ASSEMBLY	1
	100347	SPLIT COLLAR HALF	2
	100140	SPLIT COLLAR HALF	2
	101449	LEG COLLAR MOUNTING KIT	1
	15-1024	SCREW HEX HEAD CAP 1/2-20 X 2 GR5	4
	15-1025	NUT HEX LOCK 1/2-20	4
	101129-1	SPACER SPLIT COLLAR	4

* - ITEMS ARE CONTAINED IN THE LOCK VALVE REPAIR KIT 300085 (NOT SOLD SEPARATELY).

** - ITEMS ARE CONTAINED IN THE LEG REPAIR KIT 101086 (3.50" BORE) OR LEG REPAIR KIT 100422 (4.00" BORE) (NOT SOLD SEPARATELY).

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

NSS: NOT SOLD SEPARATELY

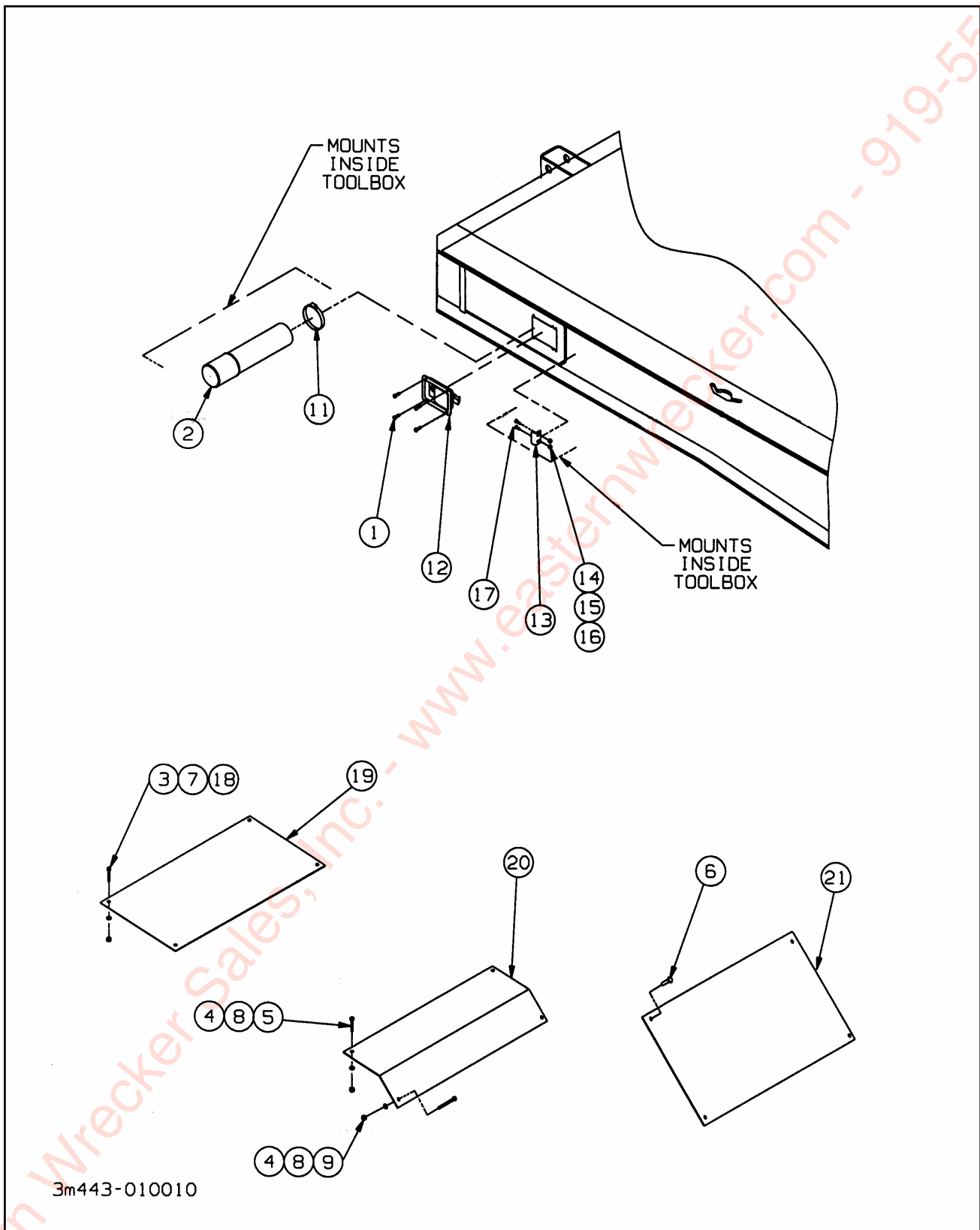
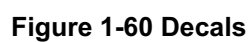


Figure 1-58 Door Latch Installation

DOOR LATCH INSTALLATION

ITEM	PART NO.	DESCRIPTION	
	B7-257-001	DOOR LATCH ASSEMBLY	
1	BSL-6-4	RIVET FLANGE 3/16 X 1/4	8
2	1-116-010019	BOX MANUAL STORAGE	1
3	1-510-010001	NUT FLANGE LOCK 3/8-16	4
4	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4
5	1-654-010070-14	SCREW RD HD SQ NCK 1/2-13 X 4-1/2	2
6	1-654-010089-13	SCREW SOCKET BUTTON CAP 1/2-13 X 2	8
7	1-861-010032-11	WASHER FLAT 3/8	4
8	1-861-010032-15	WASHER FLAT 1/2	4
9	1-654-010070-04	SCREW, RD HEAD SQ NECK 1/2-13X1-3/4	2
10	101299	CHAIN KEY LANDOLL (NOT SHOWN)	1
11	105-0093	HOSE CLAMP 4-1/2	1
12	3-443-010010	LATCH	2
13	3-482-010307	MOUNT ADJUST STRIKER PLATE	2
14	1-512-010007-03	NUT HEX #10-24	4
15	1-861-010032-04	WASHER FLAT 3/16	4
16	1-861-010034-07	WASHER SPLIT LOCK #10	4
17	1-656-010003051	SCREW ROUND HEAD MACHINE #10-24 X 3/4	4
18	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	4
19	3-681-010072	SHIELD, HYDRAULIC BOLT-ON	REF
20	3-565-010951	PLATE, CENTER	REF
21	3-222-010120	COVER SLOPE	REF



DECAL INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY.
1	1-573-010002	DECAL, L BLACK	4
	1-573-010014	DECAL, L WHITE	4
2	1-573-010003	DECAL, LANDOLL, BLACK	2
	1-573-010015	DECAL, LANDOLL, WHITE	2
3	1-573-010004	DECAL, HAULOLL, BLACK	2
	1-573-010016	DECAL, HAULOLL, WHITE	2
4	1-573-010001	DECAL, LANDOLL, BLACK	2
	1-573-010016	DECAL, LANDOLL, WHITE	2
5	3-573-010298	DECAL PATENT	2
6	3-573-010085	DECAL CONCENTRATED LOAD 70,000#	2
	3-573-010349	DECAL CAUTION 50,000#	2
7	3-573-010127	DECAL OPERATION, 3-AXLE BL	1
8	3-573-010057	DECAL, INSTRUCTION DECAL 350 CONTROLS	1
9	3-573-010299	DECAL WARNING WINCH CABLE	1
10	3-573-010040	FRONT STRIPE, LEFT, WHITE	2
	3-573-010042	FRONT STRIPE, LEFT, BLACK	2
11	3-573-010048	LANDOLL, BLACK 5 X 41	2
	3-573-010049	LANDOLL, WHITE 5 X 41	2
12	113520	DECAL, 317 BLACK DC 5"	2
	113518	DECAL, 317 WHITE DC 5"	2
	113285	DECAL, 318 BLACK DC 5"	
	113284	DECAL, 318 WHITE DC 5"	
13	3-573-010300	DECAL WARNING RIDE POSITION UNDERCARRIAGE	1
14	3-573-010041	FRONT STRIPE, RIGHT BLACK	2
	3-573-010043	FRONT STRIPE, RIGHT WHITE	2
15	3-573-010189	DECAL, TIRE CHANGING PROCEDURE	1
16	3-573-010202	DECAL, WARNING/OPERATION, DOCK LEVEL	REF
17	3-573-010020	IDENTIFICATION PLATE	1
	102160	PLACARD CANADIAN IDENTIFICATION	1
18	10036	FASTENER SERIAL NUMBER PLATE (NOT SHOWN)	4
19	3-573-010377	DECAL, REFLEXITE RED/WHITE	1200"
20	3-573-010210	DECAL TORQUE SPEC (WITH WHEEL BUNDLE)	REF
	3-573-010211	DECAL TORQUE SPEC (WITH WHEEL BUNDLE)	REF
21	100600	DECAL WARNING BRADEN WINCH (NOT SHOWN)	REF
22	3-573-010465	DECAL, HYDRAULIC PARK STAND LH (FOR LOCATION SEE PAGE 1-153 &)	REF
23	3-573-010466	DECAL, HYDRAULIC PARK STAND RH (FOR LOCATION SEE PAGE 1-153 &)	REF
24	105822	DECAL, HYDRAULIC COUPLER	REF
25	3-573-010437	DECAL, LIGHT	REF
26	3-573-010442	DECAL, WINCH TENSION	REF
27	103055	DECAL, ENERGY BUMPER, CERT	1
28	103056	DECAL, ENERGY BUMPER, WARNING	1
29	3-573-010031	DECAL, TRAILER BUMPER	1
30	3-573-010296	DECAL, REMOTE WINCH/TILT	REF
31	3-573-010391	DECAL, REMOTE WINCH TILT	REF
32	3-573-010392	DECAL, REMOTE WINCH UNDERCARRIAGE	REF
33	3-573-010393	DECAL, REMOTE TILT UNDERCARRIAGE	REF
34	100290	DECAL, REMOTE WINCH/WINCH	REF
35	3-573-010394	DECAL, REMOTE WINCH/WINCH U/C	REF
36	3-573-010395	DECAL, TILT/WINCH/UNDERCARRIAGE	REF
37	100289	DECAL, REMOTE WINCH/WINCH/TILT	REF

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

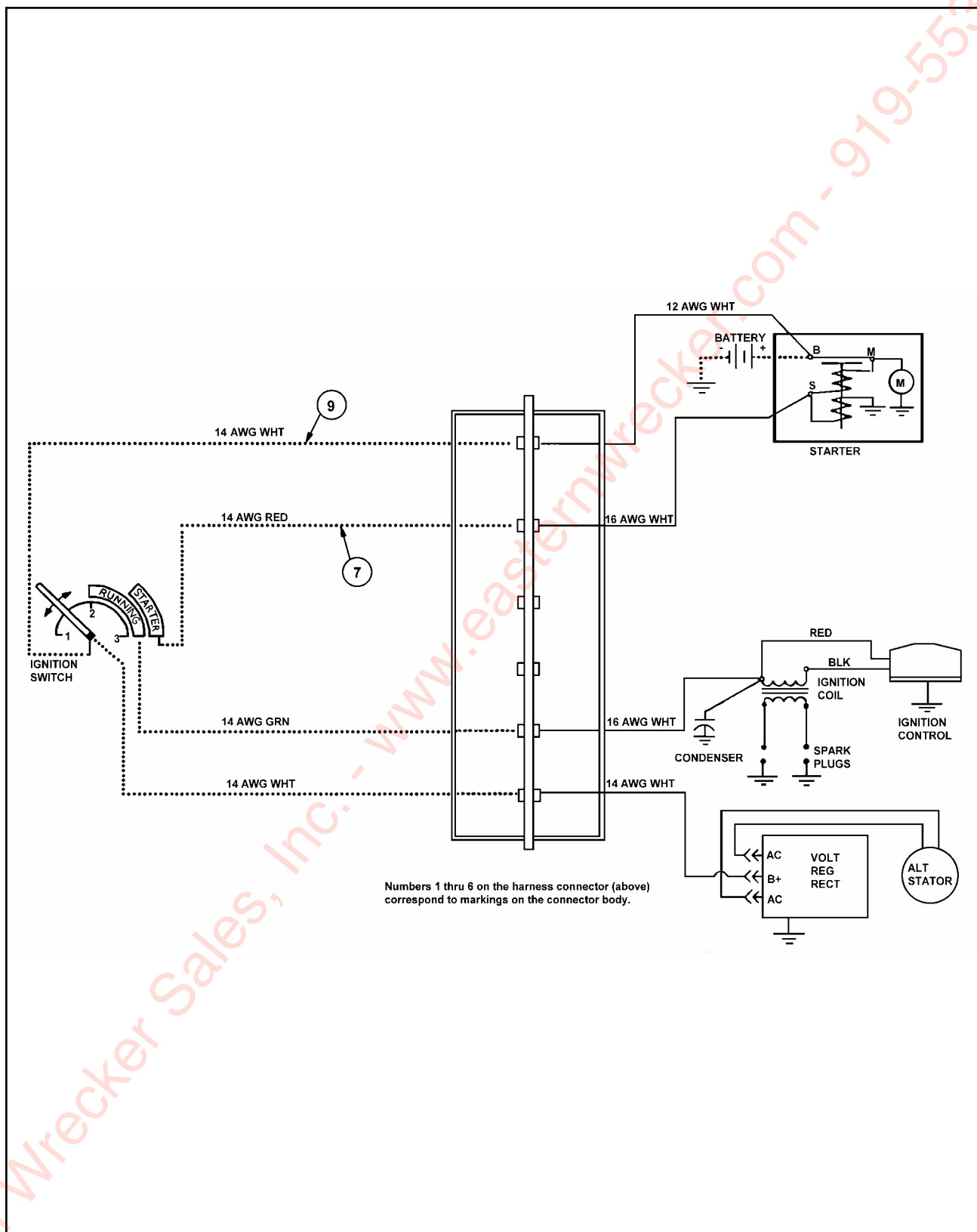


Figure 1-62 Engine Harness Diagram

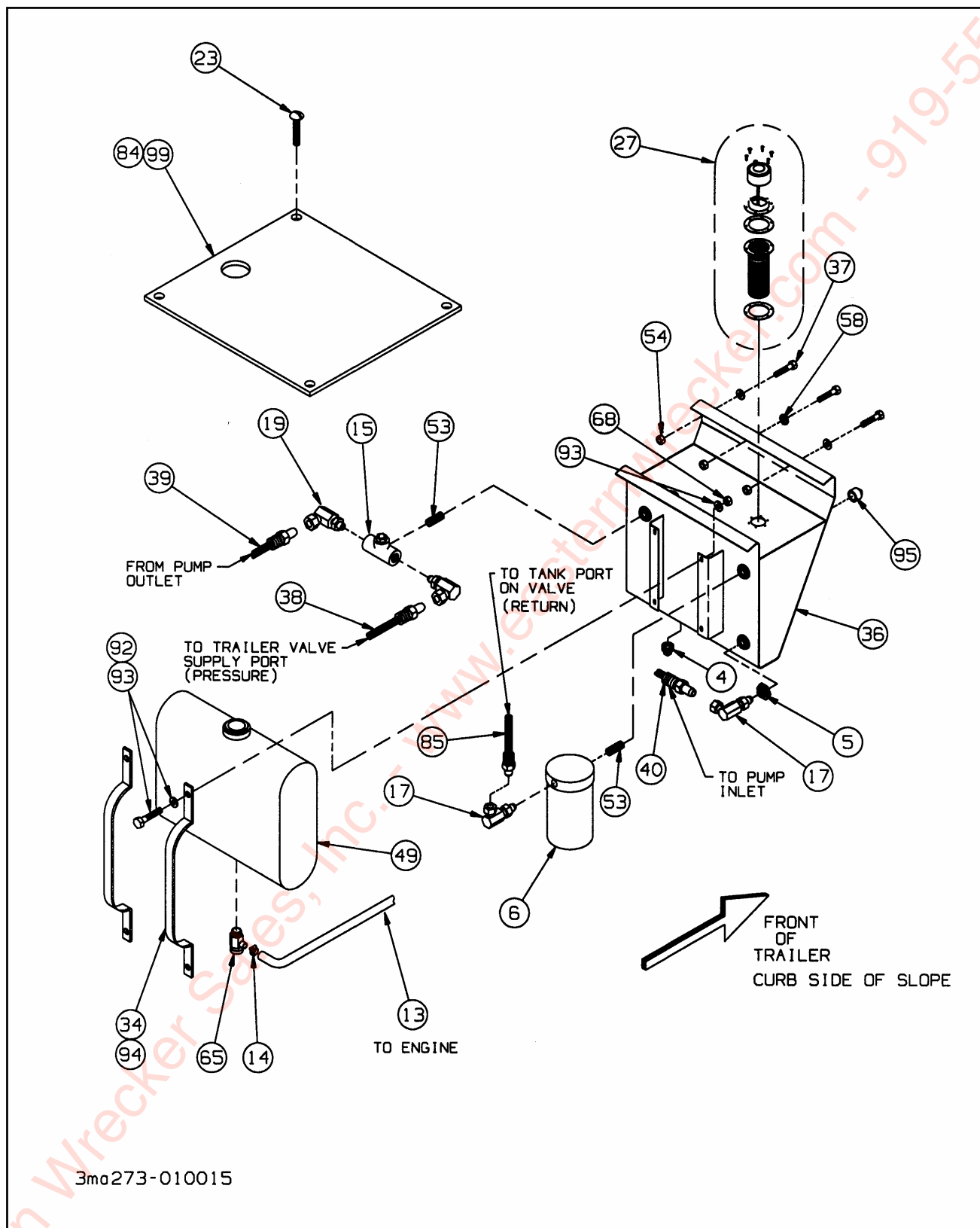


Figure 1-63 Engine Drive Slope (Optional) (1 of 2)

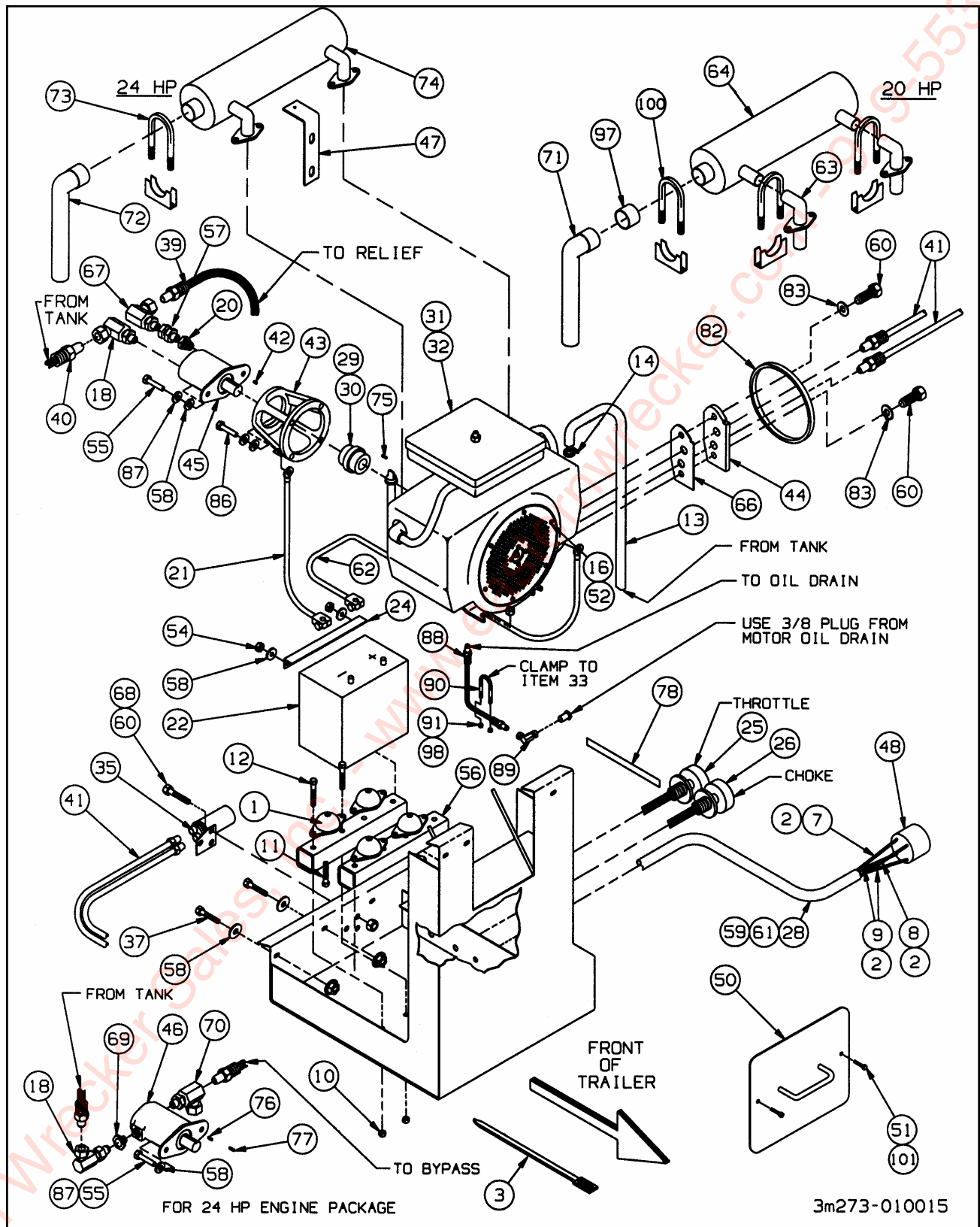


Figure 1-64 Engine Drive Slope (Optional) (2 of 2)

ENGINE DRIVE SLOPE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010015-1	ENGINE DRIVE SLOPE 20 H.P.	
	3-273-010015-2	ENGINE DRIVE SLOPE 24 H.P.	
	3-273-010015-3	ENGINE DRIVE SLOPE 20 H.P.	
	3-273-010015-4	ENGINE DRIVE SLOPE 24 H.P.	
1	CA-1595	MACHINE MOUNT 40 DROMETER	4
2	3-203-010001	RING TERMINAL 3/16	3
3	1-796-010003-02	TYTON STRAP	A/R
4	1-560-010002-07	PLUG BLACK 1-1/4 SQ HEAD	1
5	1-1/4X3/4BUSH	BLACK PIPE BUSHING	1
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-879-010004	WIRE 14 AWG RED	A/R
8	1-879-010006	WIRE 14 AWG GREEN	A/R
9	1-879-010010	WIRE 14 AWG WHITE	A/R
10	1/2-13HFLN	NUT HEX LOCK 1/2-13	12
11	1/2-13X1-1/2CS	SCREW HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4,12*
12	1/2-13X3HHCS	SCREW HEX HEAD CAP 1/2-13 X 3 GR5 (20 HP ONLY)	8
13	1-316-010013	HOSE FUEL LINE 1/4	8.5
14	105-0505	CLAMP HOSE	2
15	125130	HYDRAULIC BY-PASS	1
16	134-4560	GUARD ONAN	1
17	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	2, 3*
18	2047-12-16S	ELBOW 90 SWIVEL 3/4-1 (20 HP ENGINE ONLY)	1
19	1-007-010013	SWIVEL 90 1/2FPT 3/4MPT	2
20	2081-16-8S	REDUCER EXT/INT PIPE (20 HP ENGINE ONLY)	1
21	239-8113-66	CABLE BATTERY AUXILIARY ENGINE	1
22	2481X	BATTERY 12 VOLT	1
23	1-654-010089-13	SCREW SOCKET BUTTON CAP 1/2-13 X 2	REF
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 ASSEMBLY	1
28	3-201-010002	CONDUIT PLASTIC FLEX 3/8	A/R
29	3-220-010003	FLEXIBLE COUPLING (20 HP ENGINE ONLY)	1
30	3-220-010002	FLEXIBLE COUPLING (24 HP ENGINE ONLY)	1
31	3-273-010006	ENGINE 20 H.P.	1
32	3-273-010013	ENGINE 24 H.P.	1
33	3-482-010339	MOUNT POWER CENTERLINE WELDMENT	1
34	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	122-0476	BASE ASSEMBLY REM OIL FILTER	1
36	3-786-010059	TANK HYDRAULIC WELDMENT	1
37	1-654-010051-05	SCREW HEX HEAD CAP 3/8-16 X 1 GR5	12
38	1-397-010362118	HOSE ASSEMBLY 1/2 X 118	1
39	1-397-010311096	HOSE ASSEMBLY 1/2 X 96	1
40	1-397-010313106	HOSE ASSEMBLY 3/4 X 106	1
41	1-397-010341060	HOSE ASSEMBLY	2
42	3-427-010003	KEY WOODRUFF (20 H.P. ENGINE ONLY)	REF
43	3-482-010003	HYDRAULIC PUMP MOUNT 20 H.P.	1
44	122-0691	ADAPTER ASSEMBLY RMT FILTER	1
45	3-591-010005	PUMP GEAR HYDRAULIC (20 HP ENGINE ONLY)	1
46	3-591-010003	PUMP GEAR HYDRAULIC (24 HP ENGINE ONLY)	1
47	3-482-010360	MOUNT CHOKE CABLE WELDMENT	1
48	3-765-010005	IGNITION SWITCH	1
49	3-783-010013P	TANK FUEL 3 GAL	1

ENGINE DRIVE SLOPE (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
50	3-222-010140	COVER BATTERY ACCESS	1
51	1/4-20X1HHCS	SCREW HEX HEAD CAP 1/4-20X1	2
52	3/16X3/4CS SELF	SCREW HEX HEAD CAP SELF DRILL 3/16 X 3/4	4
53	3/4NIPPLE	ALL THREAD NIPPLE	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	2
56	3-711-010090	SPACER ENGINE MOUNT (20 HP ENGINE ONLY)	2
57	2045-8-8S	INT PIPE SWIVEL EXT PIPE 1/2-14 (20 HP ONLY)	1
58	1-861-010032-11	WASHER FLAT 3/8	20
59	3-272-010021	ELECT BUTT SPLICE 16-14	2
60	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR2	5
61	3-272-010022	ELECT BUTT SPLICE 12-10	1
62	514-9045-66	CABLE BATTERY AUXILIARY ENGINE	1
63	541-0203	EXHAUST ADAPTER KIT (20 HP ENGINE ONLY)	1
64	541-0379	MUFFLER KIT (20 HP ENGINE ONLY)	1
65	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
66	122-0771	GASKET-OIL FILTER ADAPTER ONAN	1
67	2047-8-8S	ADAPTER (20 H.P. ENGINE ONLY)	1
68	5/16-18 HFLN	NUT LOCK HEX 5/16-18	7
69	2216-12-16S	ADAPTER PIPE TO O-RING (24 HP ONLY)	1
70	1-007-010024	SWIVEL 90 1/2FPT - 3/4MPT (24 HP ENGINE ONLY)	1
71	3-276-010693	EXTENSION EXH 20 H.P. SLOPE	1
72	3-276-010691	EXTENSION EXH 24 H.P. SLOPE	1
73	3-181-010038	CLAMP MUFFLER (24 HP ENGINE ONLY)	1
74	541-0316	MUFFLER KIT (24 HP ENGINE ONLY)	1
75	110-4338	SQUARE KEY (20 HP ENGINE ONLY)	REF
76	110-4334	KEY (24HP ENGINE ONLY)	REF
77	110-4348	KEY (24 HP ENGINE ONLY)	REF
78	3-735-010030	STENCIL ENGINE CONT SLOPE	.05
82	508-0184	GROMMET AIR SEAL	1
83	526-0065	WASHER COPPER	2
84	3-222-010128	COVER SLOPE ENGINE	1
	3-222-010197	COVER OUTER 90 DROP DECK	1
85	1-397-010365118	HOSE ASSEMBLY 3/4 X 118	1
86	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	4
87	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
88	3-397-010203	HOSE ASSEMBLY 3/8 X 26	1
89	118-2650-6	SWIVEL 90	1
90	3-102-010010	U-BOLT HOSE SUPPORT	1
91	1-512-010005-01	NUT 1/4 - 20	2
92	1-654-010049-07	SCREW HEX HEAD CAP 5/16-18 X 2 GR2	4
93	1-861-010032-09	WASHER FLAT 5/16W	8
94	10030	SEAL BAR STOCK - NEOPRENE SPONGE	60"
95	1-560-010002-04	PLUG PIPE 1/2	1
97	RRT308X.75	TUBE ROUND (20 HP ENGINE ONLY)	1
98	1-861-010032-07	WASHER FLAT 1/4	2
99	3-222-010210	COVER TANK SLOPE	1
	3-222-010226	COVER TANK SLOPE 90 DROP DECK	1
100	3-182-010028	CLAMP MUFFLER (20 HP ENGINE ONLY)	1
101	1-861-010034-09	WASHER SPLIT LOCK 1/4	2

NOTE: SEE PAGE 1-115 FOR ENGINE HARNESS DIAGRAM.

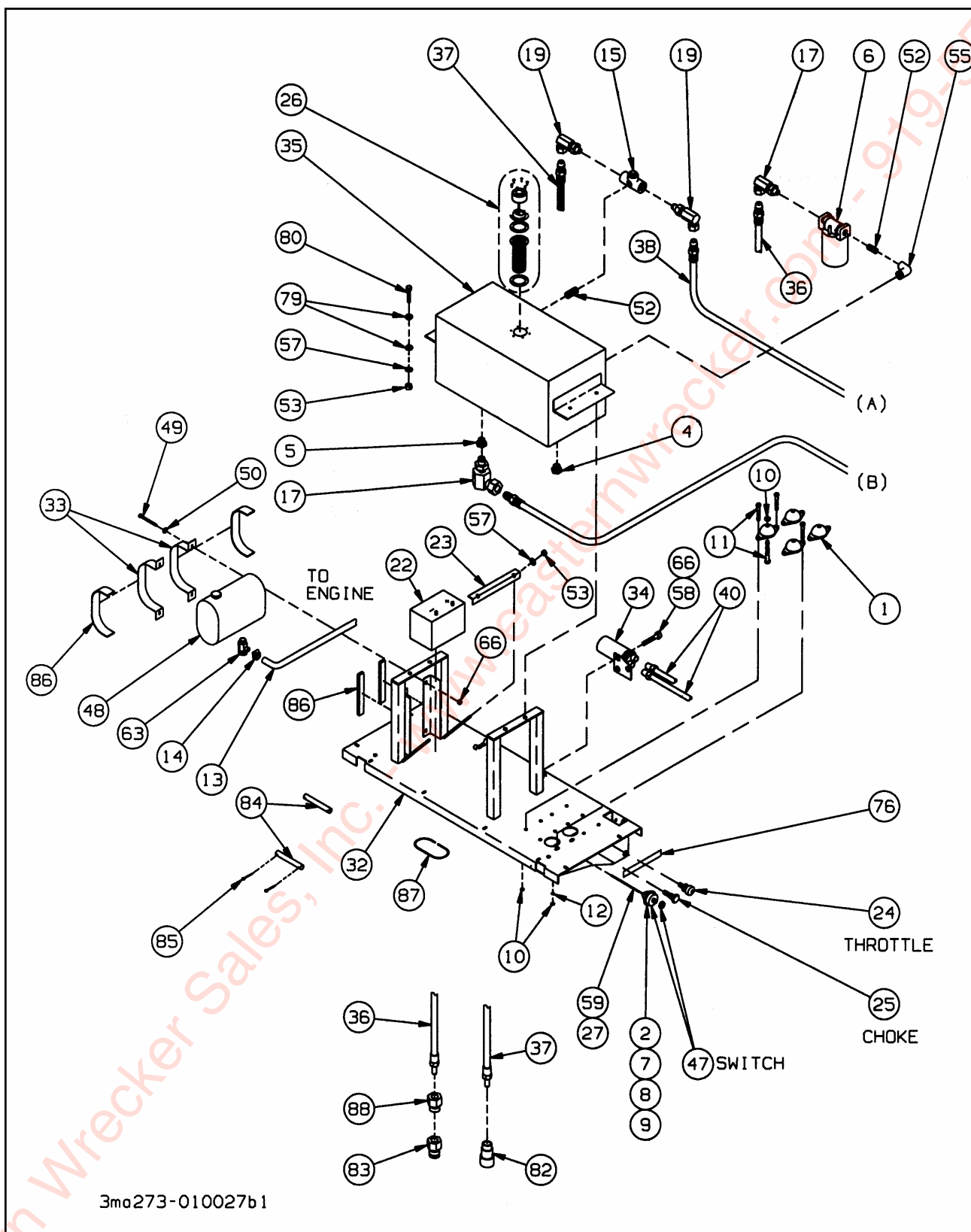


Figure 1-65 Engine Pkg Front Mount (Optional) (1 of 2)

ENGINE PKG FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-273-010027-01	ENGINE PACKAGE FRONT MOUNT 20HP	
	3-273-010027-02	ENGINE PACKAGE FRONT MOUNT 24HP	
1	CA-1595	MACHINE MOUNT 40 DROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	A/R
4	1-560-010002-07	PIPE PLUG BUSHING 1-1/4 X 11-1/2	1
5	1-1/4X3/4BUSH	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	1-879-010004	WIRE RED 14AWG	A/R
8	1-879-010006	WIRE GREEN 14AWG	A/R
9	1-879-010010	WIRE WHITE 14AWG	A/R
10	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	12
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	4
13	104-0505-048	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	2047-12-12S	PIPE SWIVEL 90 MALE	*2,3
18	2047-12-16S	ELBOW 90 SWIVEL PIPE 3/4-1	*1,0*
19	1-007-010013	SWIVEL 90 1/2FPT 3/4MPT	2
20	2081-16-8S	REDUCER EXT/ INT PIPE	1
21	239-8113-48	CABLE BATTERY (NEG) QVX ENG.	1
22	2481X	BATTERY 12 VOLT	1
23	3-120-010124	BATTERY CLAMP BRACKET	1
24	3-155-010012	CABLE THROTTLE	1
25	3-155-010025	CHOKE CABLE	1
26	3-162-010001	FILLER BREATHER STRAINER ASSY	1
27	3-201-010002	CONDUIT PLASTIC FLEX 3/8	6'
28	3-220-010003	FLEXIBLE COUPLING 1-1/8 X 3/4	*1,0
29	3-220-010002	FLEXIBLE COUPLING 1-7/16 X 3/4	*0,1
30	3-273-010006	ENGINE 20HP ONAN	*1,0
31	3-273-010013	ENGINE 24HP ONAN	*0,1
32	3-482-010510	MOUNT WELDMENT HYD. POWER CENTER	1
33	3-744-010046	STRAP 3 GAL FUEL TANK	2
34	122-0476	BASE ASSEMBLY OIL FILTER	1
35	3-786-010005	HYDRAULIC TANK FIFTH WHEEL	1
36	3-397-010237	HOSE ASSEMBLY 3/4	1
37	1-397-010311040	HOSE ASSEMBLY 1/2	1
38	3-397-010152	HOSE ASSEMBLY 1/2	1
39	3-397-010261	HOSE ASSEMBLY 3/4	1
40	1-397-010341040	HOSE ASSEMBLY 1/2 SWIVEL 1/4	2
41	3-427-010003	KEY WOODRUFF 317/350	*1,0
42	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
43	122-0691	ADAPTER ASSEMBLY—REMOTE FILTER	8
44	3-591-010005	PUMP HYDRAULIC GEAR	*1,0
45	3-591-010003	PUMP HYDRAULIC GEAR	*0,1
46	3-482-010360	MOUNT CHOKE CABLE WLDMT	1
47	3-765-010005	IGNITION SWITCH	1
48	3-783-010013P	TANK FUEL 3 GAL	1
49	1-654-010049-07	SCREW HEX CAP 5/16-18 X 1-1/2 GR5	4
50	1-861-010032-09	WASHER FLAT 5/16	8

ENGINE PKG FRONT MOUNT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
51	3/16X3/4CS SELF	SCREW HEX HEAD CAP SELF-DRILL 3/16 X 3/4	2
52	3/4NIPPLE	ALL THREAD NIPPLE	2
53	1-510-010001	NUT FLANGE LOCK 3/8-16	6
54	1-654-010049-07	SCREW HEX HEAD CAP 5/16-18 X 1-1/2 GR5	2
55	3/4ST ELL	ELBOW BLACK PIPE 90	2
56	2045-8-8S	INT. PIPE SWIVEL EXT. PIPE 1/2-14	1,0*
57	1-861-010032-11	WASHER FLAT 3/8	14
58	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
59	3-272-010022	ELECTRICAL BUTT SPLICE 12-10 W/SEAL	1
60	514-9045-60	CABLE BATTERY KI (POS) AUX ENGINE	1
61	541-0203	EXHAUST ADAPTER KIT	*1,0
62	541-0379	MUFFLER 20HP ONAN	*1,0
63	6600	VALVE SHUT-OFF GAS WEATHERHEAD	1
64	122-0771	GASKET OIL FILTER ADAPTER	*1,0
65	2047-8-8S	ADAPTER	*1,0
66	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	7
67	2216-12-16S	ADAPTER 3/4-14 TO 1-5/16 O-RING ADAPTER	*0,1
68	1-007-010024	1/2PIPE TO 1-1/16 O-RING 90	*0,1
69	3-276-010693	EXT EXHAUST 24HP SLOPE	*1,0
70	3-276-010691	EXT EXHAUST 24HP SLOPE	*0,1
71	3-181-010038	CLAMP MUFFLER	*0,1
72	541-0316	MUFFLER 24HP	*0,1
73	110-4338	SQUARE KEY 1/4 X 2	*1,0
74	110-4334	KEY 3/16 X 1-1-4	*0,1
75	110-4348	KEY 3/8 X 1-1/4	*0,1
76	3-735-010030	STENCIL ENGINE CONT SLOPE	.05
77	508-0184	GROMMET - AIR SEAL	1
78	526-0065	WASHER	2
79	805-2	BUSHING STEP	8
80	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5	8
81	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
82	S25F-6	COUPLER 3/4 FEMALE HALF (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
	105482	COUPLER, DUST CAP FEMALE	1
83	S21F-6	COUPLER 3/4 MALE HALF (BEFORE 7/98)	1
	105479	COUPLER, FLAT FACE MALE (AFTER 7/98)	1
	105481	COUPLER, DUST CAP MALE	1
84	3-557-0140380	SUPPORT PIN	4
85	1-557-010362-63	COTTER PIN 1/4 X 2	8
86	10030	SEAL BAR STOCK - NEOPRENE SPONGE	60"
87	1-822-010001018	TRIM 3/8 X 18	1
88	3/4X1/2BUSH	BUSHING BLACK PIPE	1
89	RRT308X.75	TUBE ROUND 1-3/8 X 3/4	*1,0
90	3-182-010028	CLAMP MUFFLER	*1,0

* THE FIRST QUANTITY LISTED IS FOR THE 20HP ENGINE, THE SECOND QUANTITY LISTED IS FOR THE 24HP ENGINE.

NOTE: SEE PAGE 1-115 FOR ENGINE HARNESS DIAGRAM.

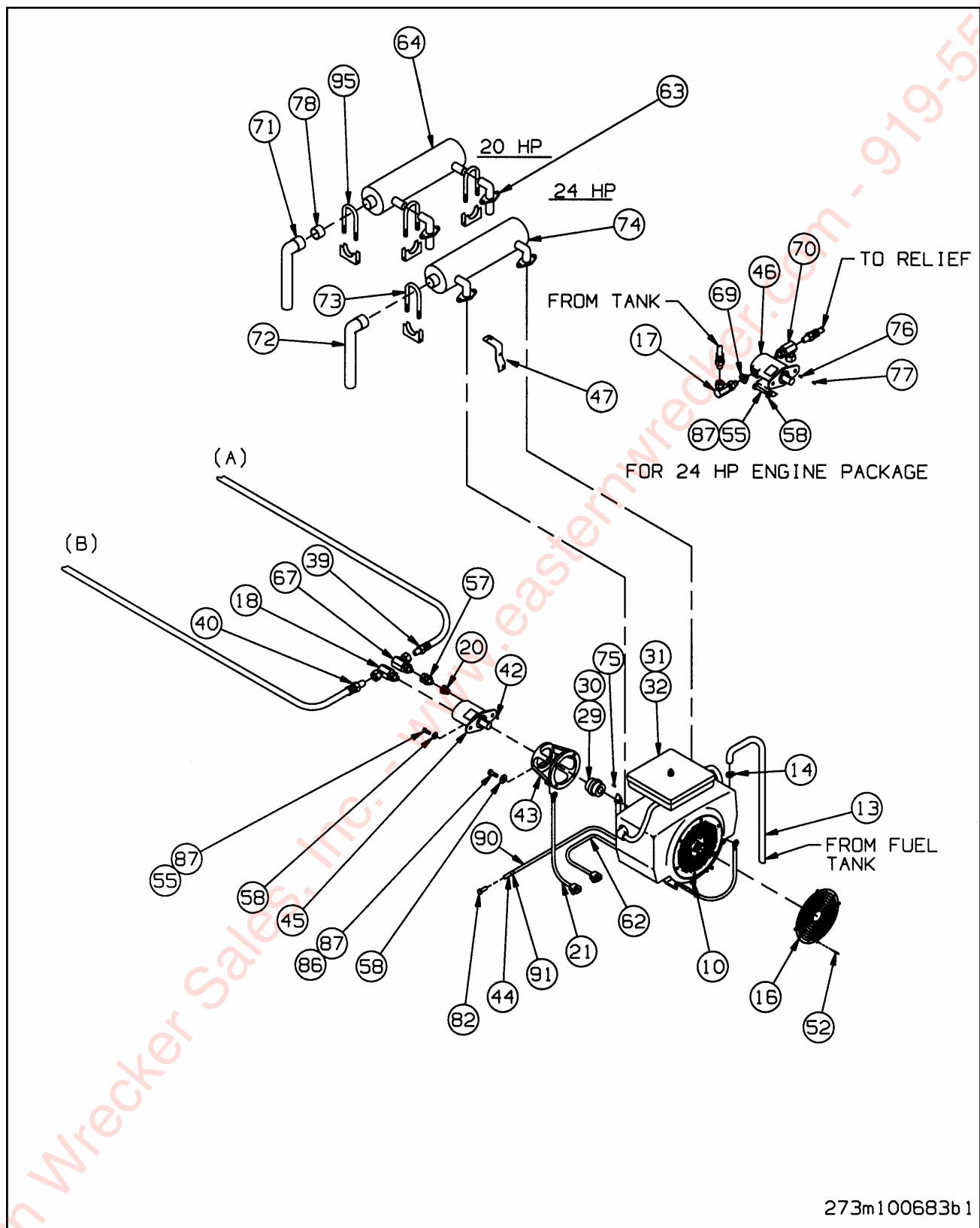


Figure 1-67 Engine Pkg Onan U/D (Optional) (1 of 2)

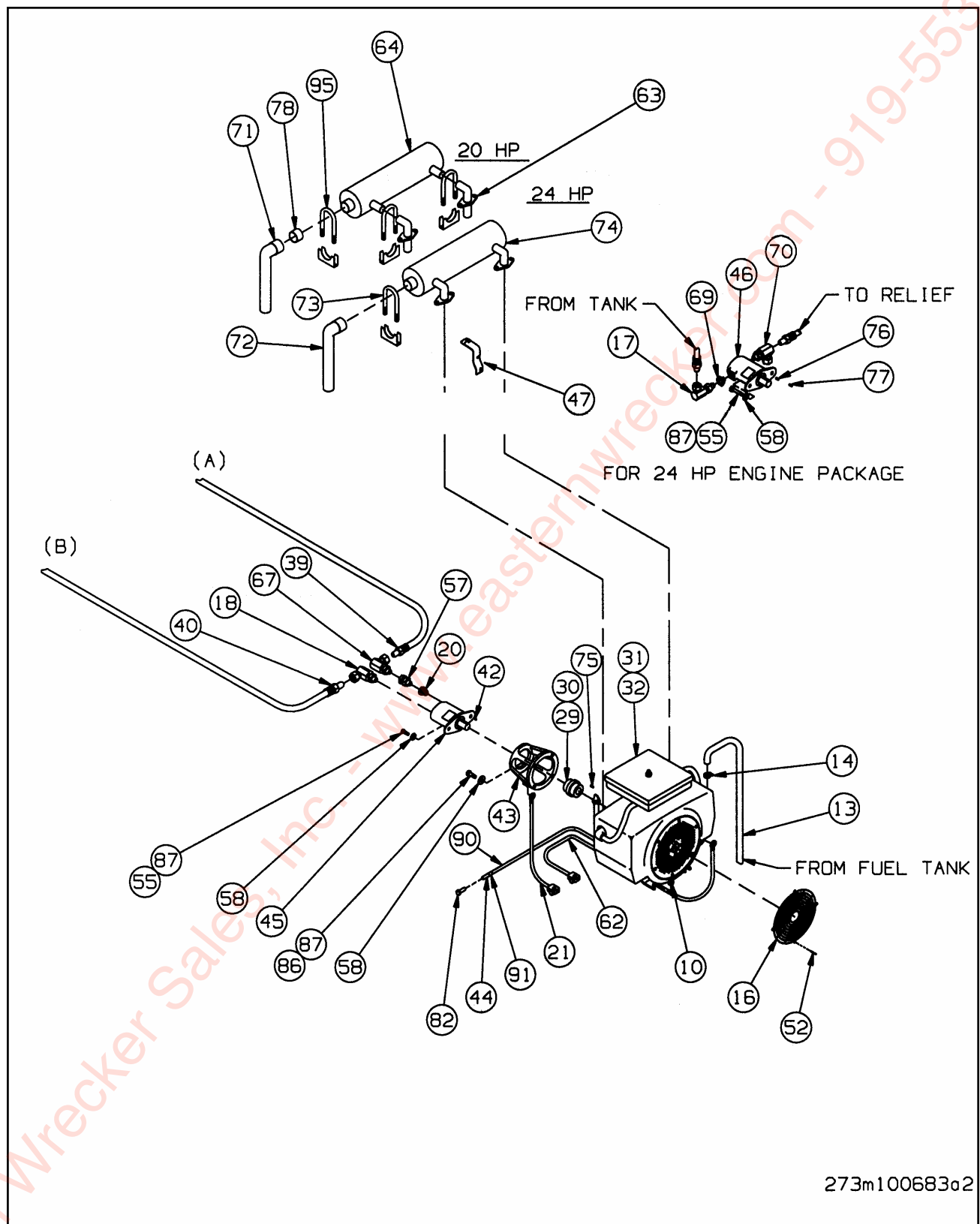


Figure 1-68 Engine Pkg Onan U/D (Optional) (2 of 2)

AUXILIARY ENG PKG UPPER DECK (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	100683	ENGINE PACKAGE UPPERDECK 20HP	
	100684	ENGINE PACKAGE UPPERDECK 24HP	
1	CA-1595	MACHINE MOUNT 40 DROMETER	4
2	3-203-010001	RING TERMINAL	3
3	1-796-010003-02	TIE STRAP PLASTIC	6
4	10030	SEAL BAR - NEOPRENE SPONGE	60"
5	3-150-010166-16	BLACK PIPE BUSHING 1-1/4 X 3/4	2
6	1-295-010001	FILTER RETURN LINE	1
	1-295-010002	FILTER ELEMENT	1
7	1-879-010004	WIRE RED 14AWG	6'
8	1-879-010006	WIRE GREEN 14AWG	6'
9	1-879-010010	WIRE WHITE 14AWG	6'
10	1-512-010005-09	NUT HEX LOCK CAD W/WAX 1/2-13 GRB	12
11	1-654-010055-03	SCREW HEX HEAD CAP 1/2-13 X 1-1/2	12
12	1-861-010032-15	WASHER FLAT 1/2	4
13	104-0505-060	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	2047-12-12S	ADAPTER 90	*2,3
18	2047-12-16S	ADAPTER 90	*1,0
19	1-007-010013	ADAPTER EXT/ INT PIPE	1
20	2081-16-8S	REDUCER EXT/ INT PIPE	*1,0
21	239-8113-48	CABLE BATTERY (NEG) QVX ENG.	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	3-201-010002	CONDUIT PLASTIC FLEX 3/8	6'
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	100678	MOUNT WELDMENT 330 POWER CTR	1
34	3-744-010046	STRAP 3 GAL FUEL TANK	2
35	106285	ADAPTER 90 3/4MPT X 1/2FPT	2
36	3-786-010005	HYDRAULIC TANK 5TH WHEEL	1
37	1-397-010313066	HOSE ASSEMBLY 3/4	1
38	106345	HOSE ASSEMBLY 1/2	1
39	3-397-010152	HOSE ASSEMBLY 1/2	1
40	3-397-010261	HOSE ASSEMBLY 1/2	1
41	3/4COUPL	BLACK PIPE COUPLING	1
42	3-427-010003	KEY WOODRUFF 317/350	*1,0
43	3-482-010003	20HP HYDRAULIC PUMP MOUNT	1
44	3/8COUPL	BLACK PIPE COUPLING	1
45	3-591-010005	PUMP HYDRAULIC GEAR	*1,0
46	3-591-010003	PUMP HYDRAULIC GEAR	*0,1
47	3-482-010360	MOUNT CHOKE CABLE WLDMT	1
48	3-765-010005	IGNITION SWITCH	1
49	3-783-010013P	TANK FUEL 3 GAL	1
50	1-654-010049-07	SCREW HEX CAP 5/16-18 X 1-1/2 GR5	4

AUXILIARY ENG PKG UPPER DECK (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
51	1-861-010032-09	WASHER FLAT 5/16	8
52	3/16X3/4CS SELF	SCREW HEX HEAD CAP SELF DRILL	4
53	3/4NIPPLE	ALL THREAD NIPPLE	2
54	1-510-010001	NUT FLANGE LOCK 3/8-16	6
55	1-654-010051-06	SCREW HEX CAP 3/8-16 X 1-1/4 GR5	2
56	1-271-010005-05	ELBOW BLACK PIPE 90	1
57	2045-8-8S	INT PIPE SWIVEL EXT P 1/2-14	*1,0
58	1-861-010032-11	WASHER FLAT 3/8	14
59	3-272-010021	ELECTRICAL BUTT SPLICE	2
60	1-822-010001018	TRIM 3/8 X 18	1
61	3-272-010022	ELECTRICAL BUTT SPLICE	1
62	514-9045-60	CABLE BATTERY (POS) AUX ENGINE	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	100682	TAG HOSE HYD. OIL DRAIN	1
67	2047-8-8S	ADAPTER	*1,0
68	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	4
69	2216-12-16S	ADAPTER 3/4-14 PIPE TO 1-5/16 O-RING ADAPTER	*1,0
70	1-007-010024	SWIVEL 90 1/2FPT X 3/4MPT	*0,1
71	3-276-010693	EXTENSION EXHAUST 20HP SLOPE	*1,0
72	3-276-010691	EXTENSION EXHAUST 24HP SLOPE	*0,1
73	3-181-010038	CLAMP MUFFLER	*0,1
74	541-0316	MUFFLER 24HP	*0,1
75	110-4338	SQUARE KEY 1/4 X 2	*REF,0
76	110-4334	KEY 3/16 X 1-1/4	*0,REF
77	110-4348	KEY 3/8 X 2	*0,REF
78	RRT308X.75	TUBE ROUND 1-3/8 X 3/4	1
83	1-560-010002-05	PLUG PIPE 3/4	1
84	805-2	BUSHING STEP	8
85	1-397-010313034	HOSE ASSEMBLY 3/4	1
86	1-654-010051-08	SCREW HEX HEAD CAP 3/8-16 X 1-3/4	8
87	1-861-010034-11	WASHER SPLIT LOCK 3/8	6
88	S25F-6	COUPLER 3/4 FEMALE HALF (BEFORE 7/98)	1
	105480	COUPLER, FLAT FACE FEMALE (AFTER 7/98)	1
	105482	COUPLER, DUST CAP FEMALE	1
89	S21F-6	COUPLER 3/4 MALE HALF (BEFORE 7/98)	1
	105479	COUPLER, FLAT FACE MALE (AFTER 7/98)	1
	105481	COUPLER, DUST CAP MALE	1
90	1-397-010374	HOSE ASSEMBLY 38"	1
91	100681	TAG HOSE ENGINE OIL DRAIN	1
92	1-512-010005-13	NUT HEX LOCK 5/8-11 GRB	4
93	1-654-010059-13	HEX CAP SCREW 5/8-11 X 4 GR5	4
94	1-861-010032-19	WASHER FLAT 5/8	8
95	3-182-010028	CLAMP MUFFLER	*1,0

* THE FIRST QUANTITY LISTED IS FOR P/N 100683 (20HP ENGINE); THE SECOND QUANTITY LISTED IS FOR P/N 100684 (24HP ENGINE).

NOTE: SEE PAGE 1-115 FOR ENGINE HARNESS DIAGRAM.

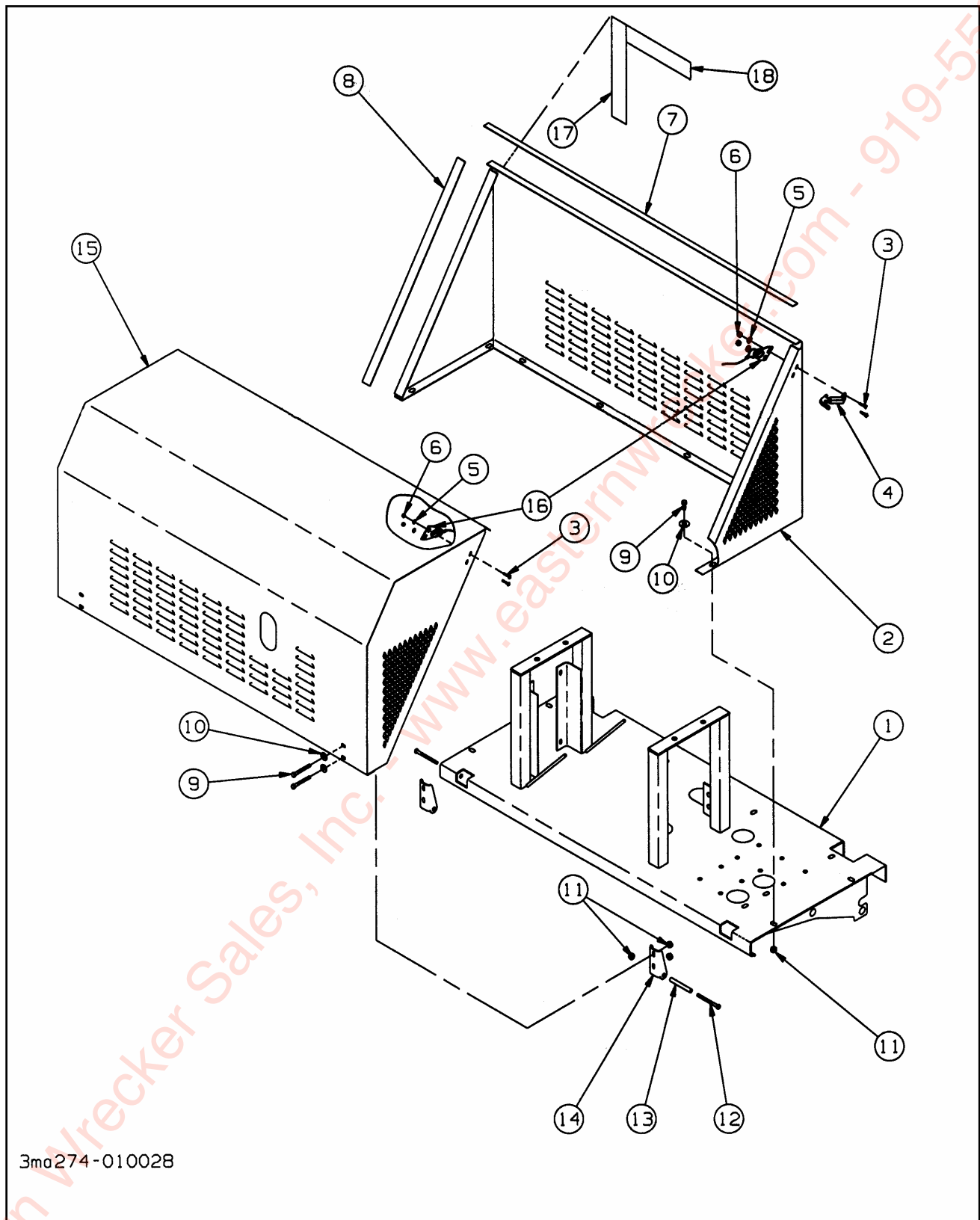


Figure 1-69 Engine Cover Assembly

ENGINE COVER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.
	3-274-010028	ENGINE COVER ASSEMBLY FRONT MOUNT	
1	3-482-010510	MOUNT WLDMT HYD. POWER CENTER	REF
2	3-222-010167	COVER BACK POWER CENTER	1
3	110-0116	SCREW ROUND HEAD CAP 10-24 X 3/4	8
4	3-443-010018	LATCH FLEXIBLE DRAW LEVER ASSIST	2
5	1-861-010032-04	WASHER FLAT 3/16	8
6	1-512-010004-03	NUT HEX LOCK 10-24 GRA	8
7	1-659-010011056	SEAL NEOPRENE SPONGE	1
8	1-659-010011032	SEAL NEOPRENE SPONGE	2
9	1-654-010051-06	SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
10	1-861-010032-11	WASHER FLAT 1/2	12
11	1-510-010001	NUT FLANGE LOCK 3/8-16	14
12	3/8-16X5-1/2CS	CAPSCREW 3/8-16 X 5-1/2 GR5	2
13	3-831-010158	TUBE PIVOT HINGE BRACKET	2
14	3-120-010284	BRACKET HINGE	2
15	3-222-010166	COVER WELDMENT FRONT	1
16	3-744-010041	STRAP ASSEMBLY ENGINE PACKAGE COVER	2

NOTE: COVER FITS P/N'S 3-273-010027-01, -02 (FRONT MOUNT) AND 100683, 100684 (UPPER DECK MOUNT) ENGINE PACKAGES.

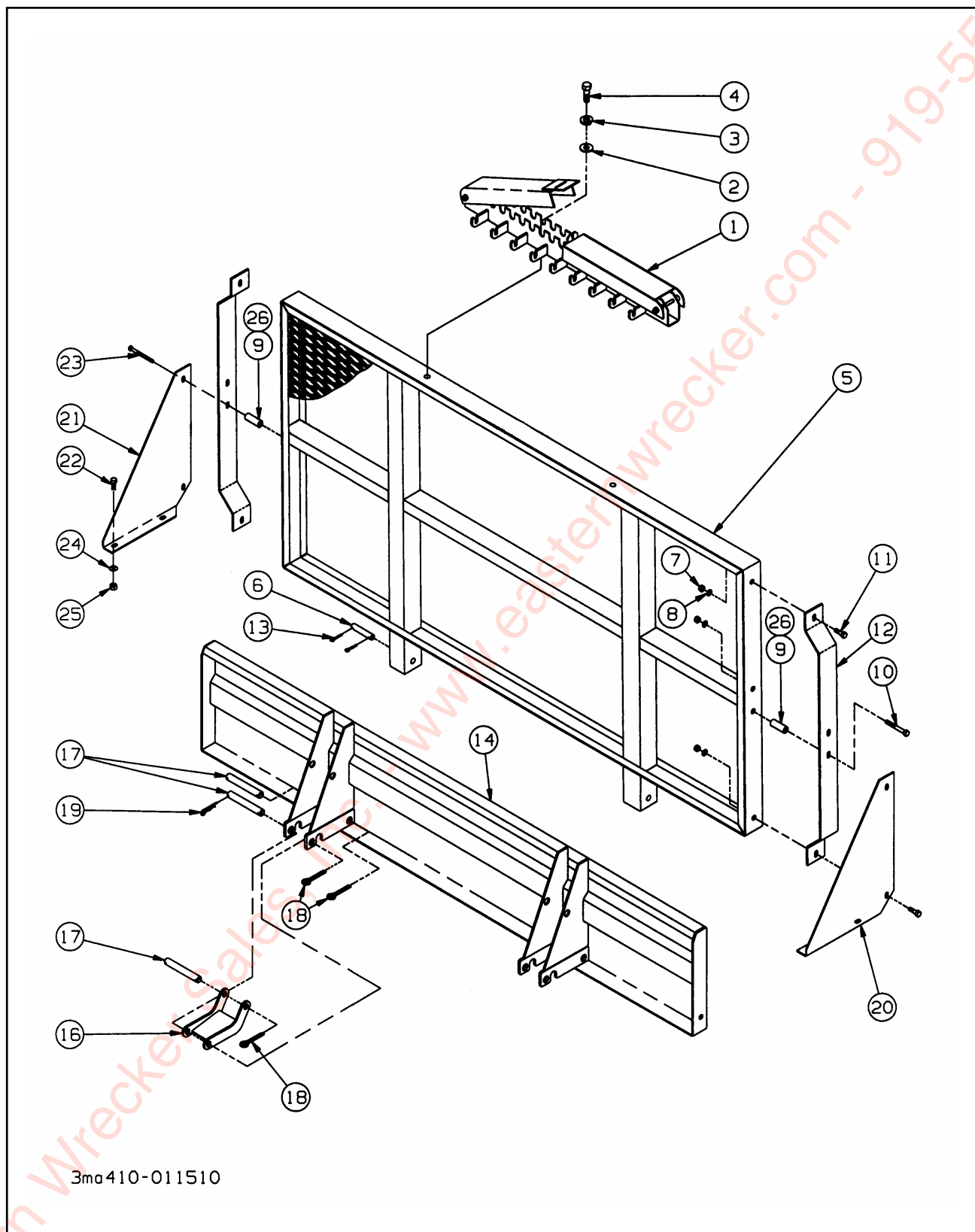


Figure 1-70 Front Extension and Bulkhead (Optional)

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

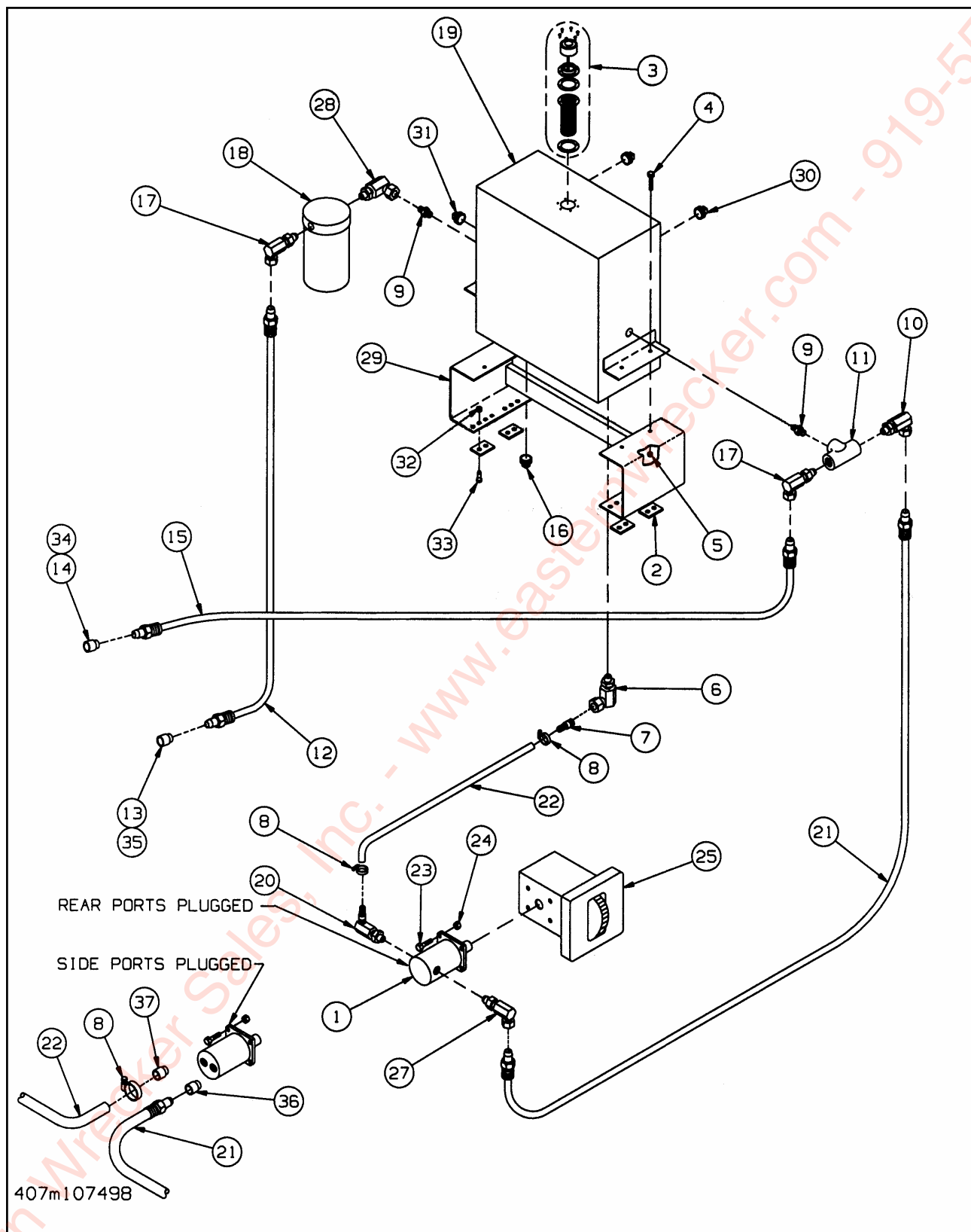


Figure 1-71 Hydraulic Wet Kit (Optional)

FRONT EXTENSION AND BULKHEAD ASSY(OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	B7-141-003	BULKHEAD CHAIN RACK 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	BRACE INST. STABILIZING 48' BULKHEAD (ITEMS 20-25)	
1	3-141-010008	CHAIN HANGER LOCKING CHANNEL WLDMT	1
2	1-861-010032-11	WASHER, FLAT 3/8	1
3	1-861-010034-11	WASHER, SPLIT LOCK 3/8	1
4	3/8-16 X 1-1/4 CS	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	3-117-00069	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 (102)	4
24	1-861-010032-15	WASHER FLAT 1/2W	8
25	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	8
26	3-711-010025	SPACER, 48" BULKHEAD (102)	2

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

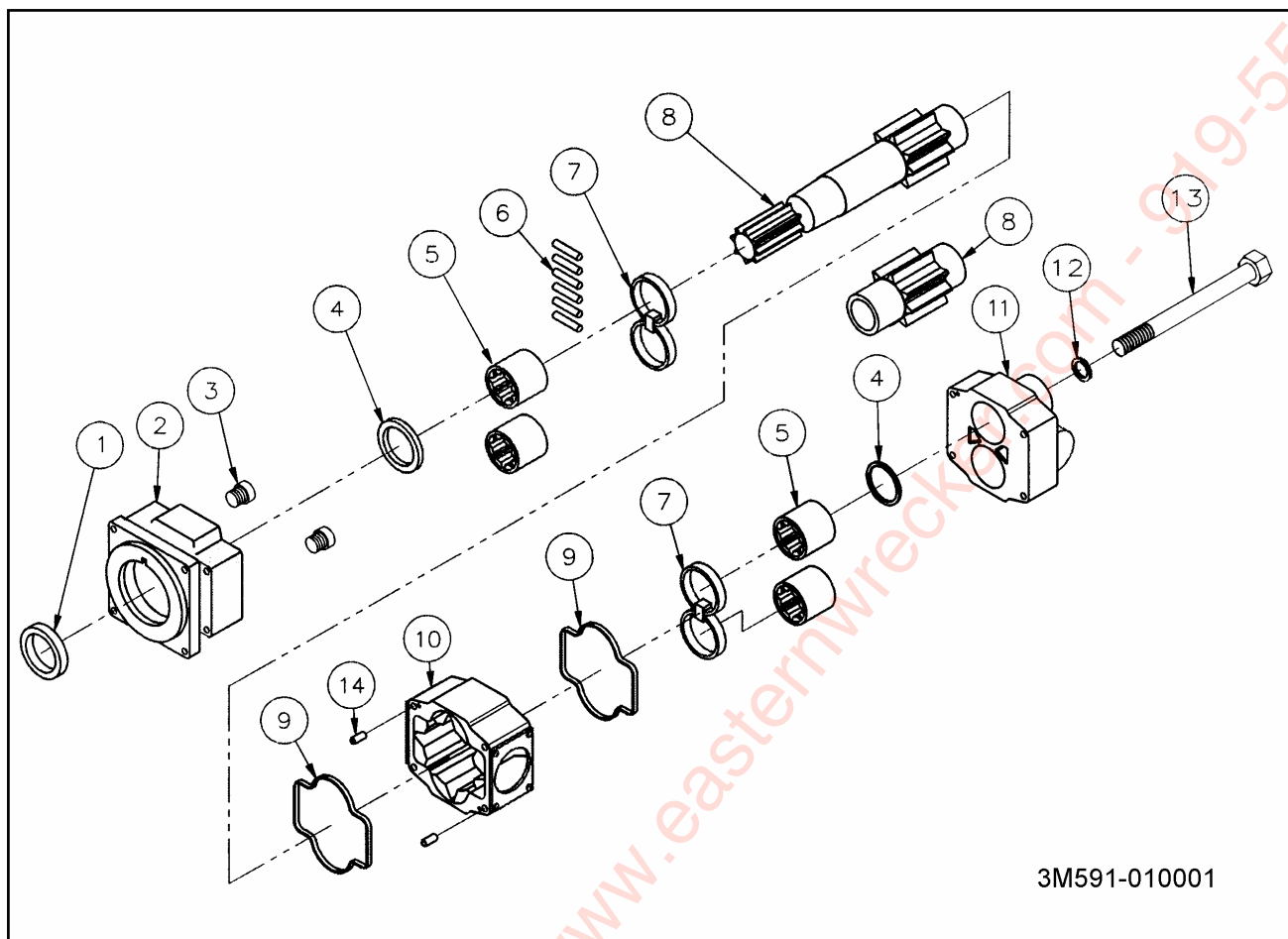


Figure 1-72 Hydraulic Pump, Wet Kit (Optional)

HYDRAULIC WET KIT (OPTIONAL)

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 1-137)	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 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

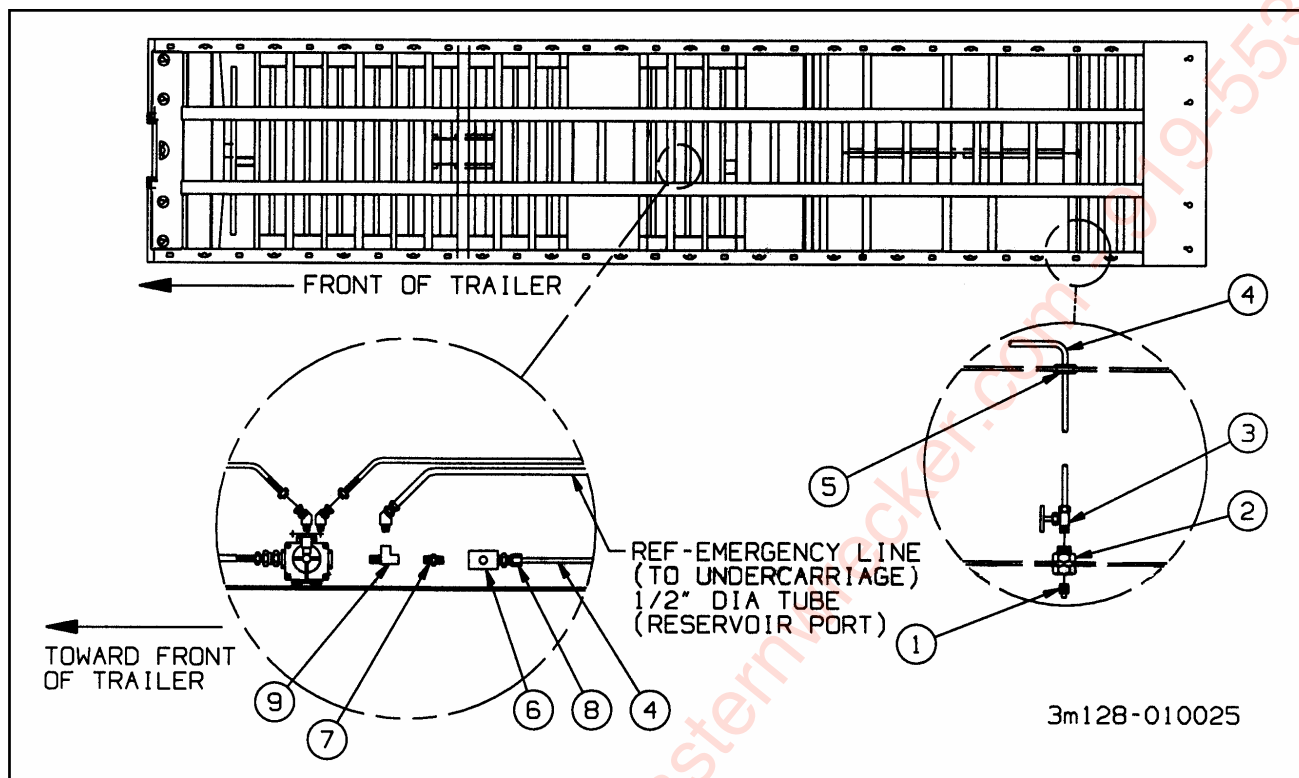


Figure 1-73 Air Outlet Accessory (Optional)

HYDRAULIC WET KIT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
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.

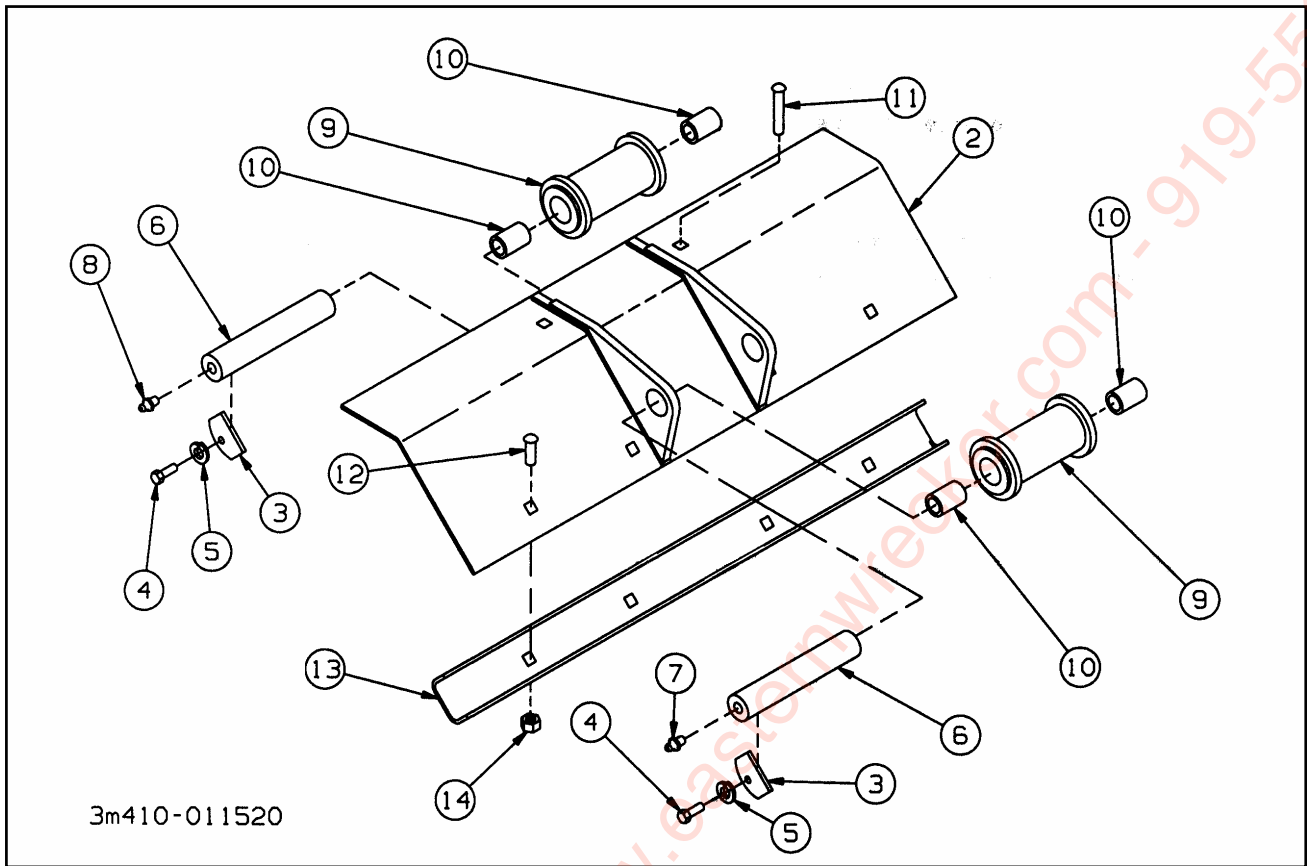


Figure 1-74 Slope Roller Guide 45 (Optional)

HYDRAULIC WET KIT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
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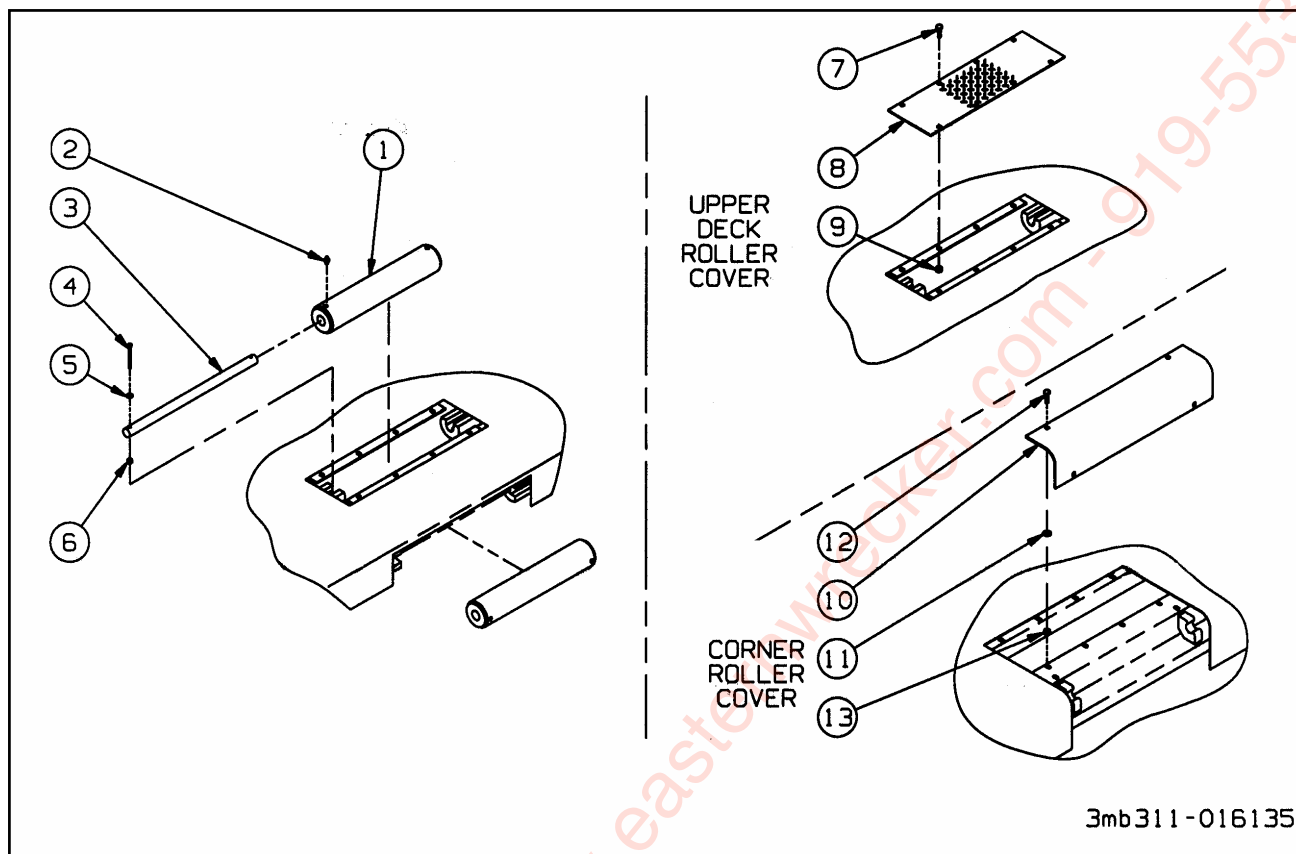


Figure 1-75 Slope Roller Guide 90 (Optional)

HYDRAULIC PUMP, WET KIT (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-591-010001	HYDRAULIC PUMP ASSEMBLY	
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	

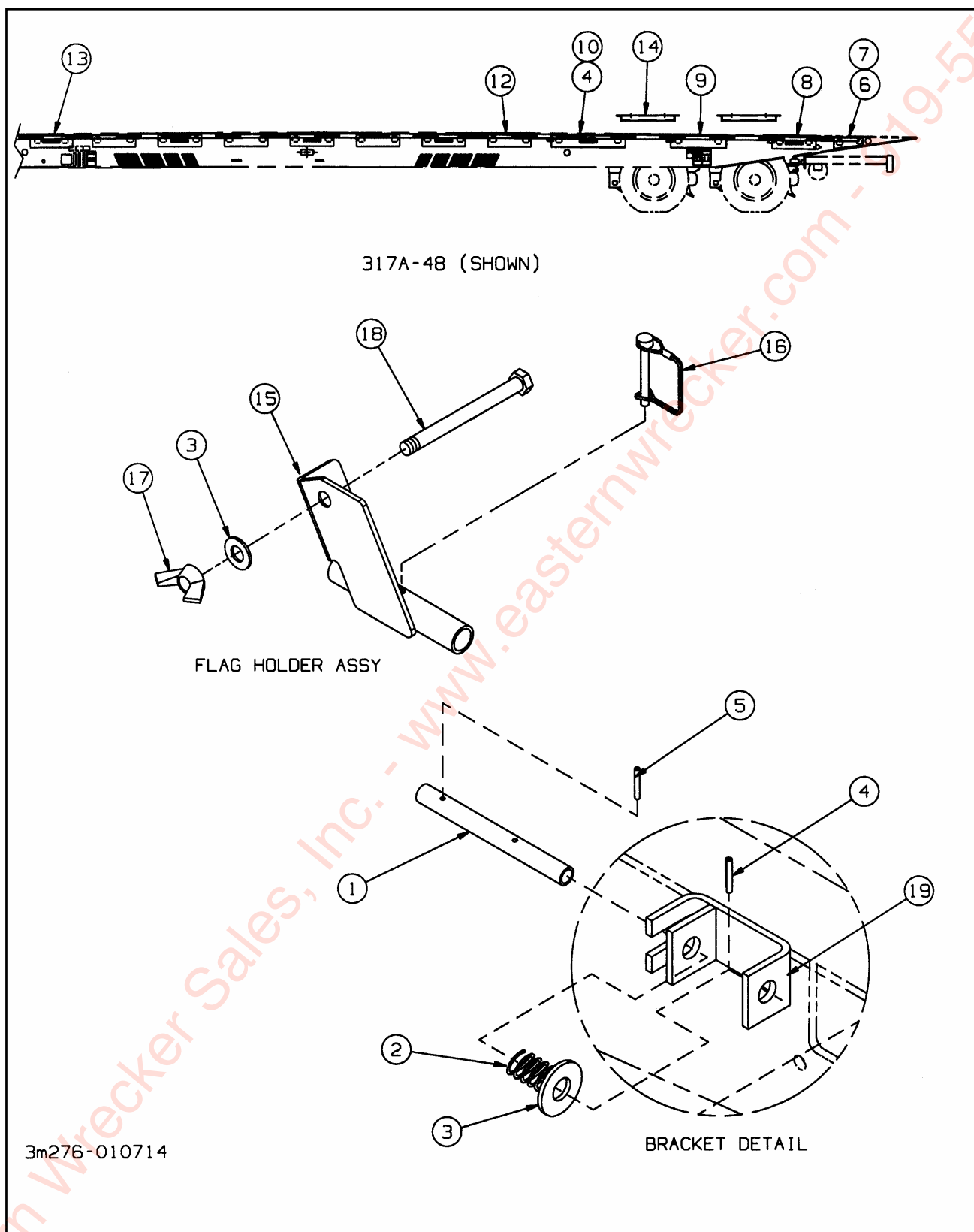


Figure 1-76 Extension Installation 317B (Optional)

AIR OUTLET ASSEMBLY (OPTIONAL)

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

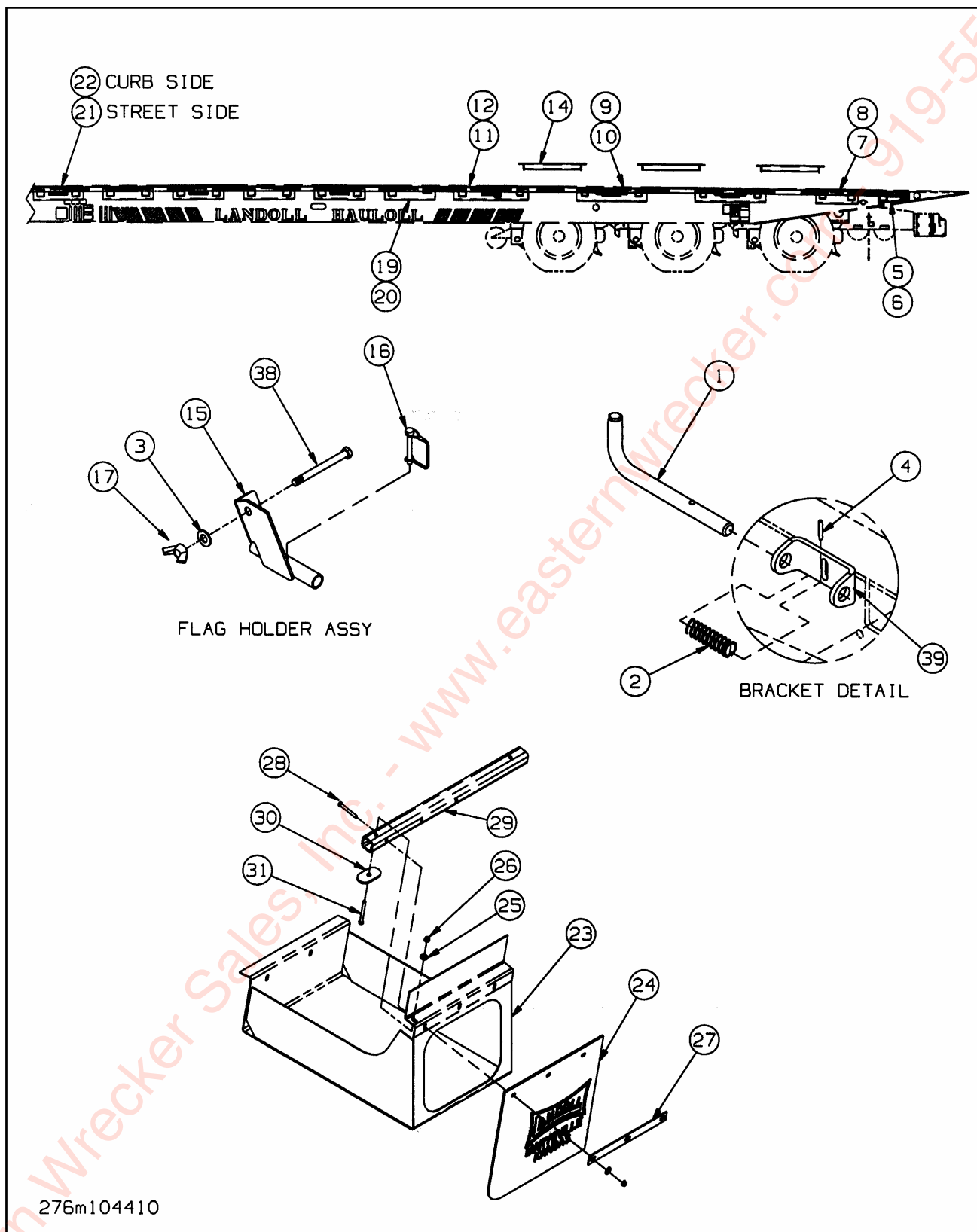


Figure 1-77 Extension Installation 318B (Optional)

SLOPE ROLLER GUIDE 45 (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-352-010027	GUIDE INSTALLATION, WINCH CABLE, SLOPE ROLLER	
1	3-352-010026	GUIDE ASSEMBLY, WINCH CABLE, SLOPE ROLLER	1
2	1-654-010070-13	SCREW, RD HEAD SQ NECK 1/2-13X4 GR5	2
3	1-654-010070-07	SCREW, RD HEAD SQ NECK 1/2-13X2-1/GR5	4
4	3-177-010191	CHANNEL CLAMPING SLOPE ROLLER	1
5	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	6
6	1-861-010032-15	WASHER FLAT 1/2W	6

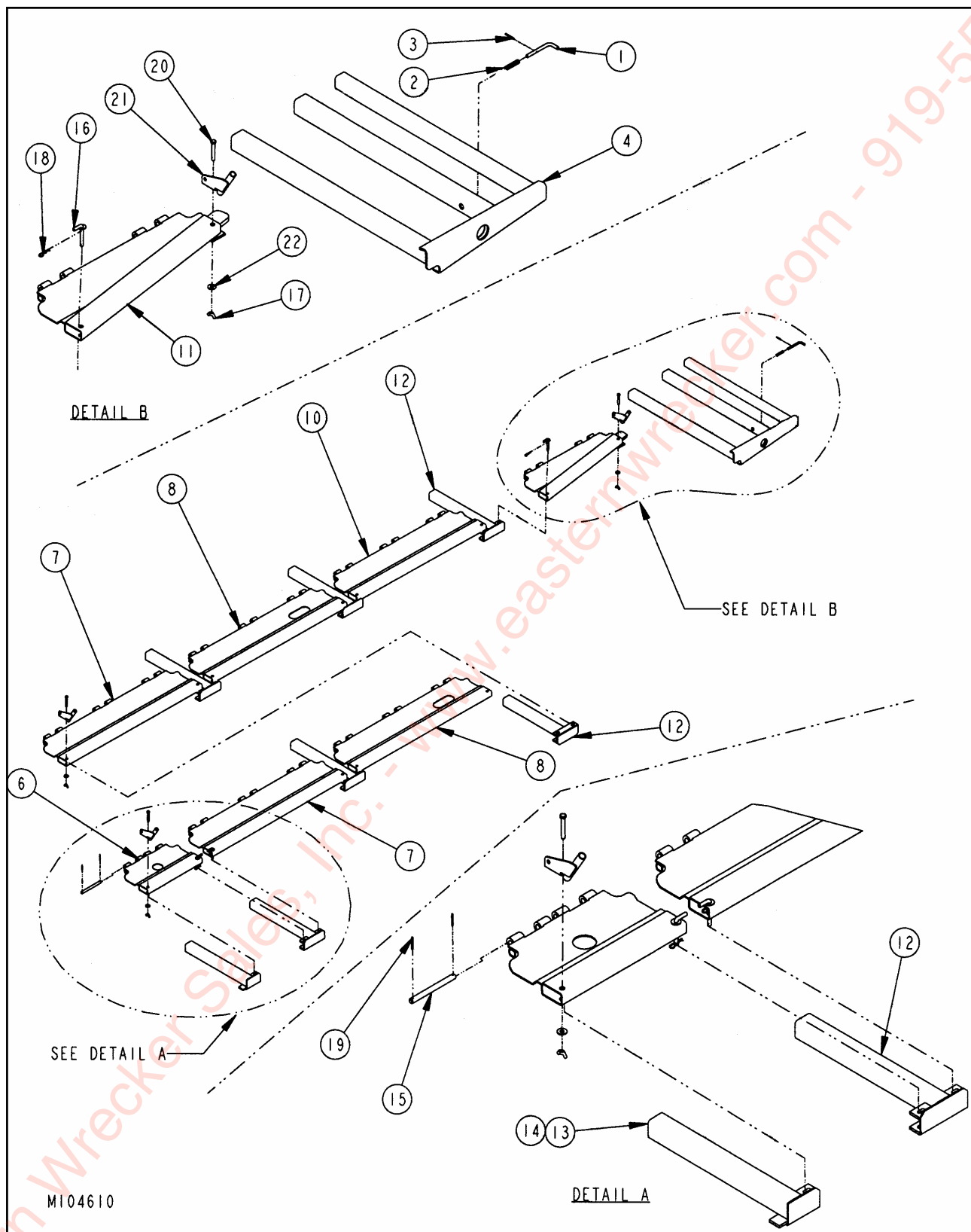


Figure 1-78 Extension Installation 319B (Optional)

SLOPE ROLLER 90° DROP DECK (OPTIONAL)

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

COVER PLATE INSTALLATION - UPPER DECK ROLLER (OPTIONAL)

	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 (OPTIONAL)

	3-222-010227	COVER PLATE INSTL. - CORNER ROLLER	
10	3-535-011757	PLATE CABLE WEAR	1
11	1-861-010032-14	WASHER FLAT 1/2 N	4
12	1-654-010070-03	SCREW RDHD SQNK 1/2-13X1-1/2	4
13	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	4

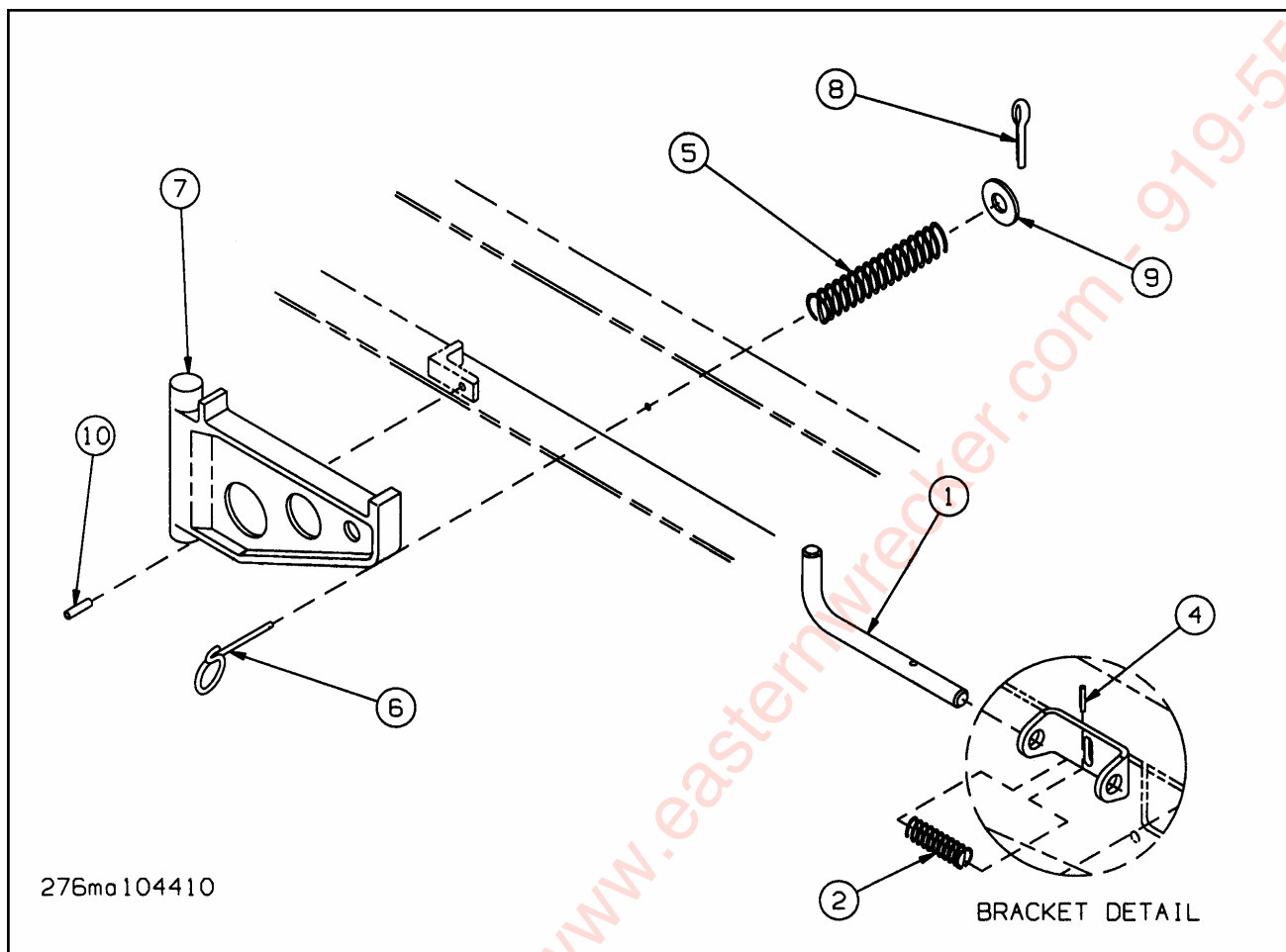


Figure 1-79 Outrigger Installation 318B (Optional)

EXTENSION INSTALLATION PULL-OUT 317B (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-276-010714	EXTENSION INSTALLATION PULL-OUT	
1	3-557-010375	PIN SLIDE LOCK	24,26,28*
2	CO-975-74-2000	SPRING COMPRESSION	24,26,28*
3	1-861-010032-15	WASHER FLAT 1/2W	30,32,34*
4	1-647-010004117	ROLL PIN 1/8 X 3	24,26,28*
5	0600-250-03000	ROLL PIN 1/4 X 3	24,26,28*
6	3-276-010713	EXTENSION 14IN LH PULL-OUT	1
7	3-276-010712	EXTENSION 14IN RH PULL-OUT	1
8	3-276-010711	EXTENSION 21IN REAR PULL-OUT	2
9	3-276-010710	EXTENSION 27IN PULL-OUT	2
10	3-276-010709	EXTENSION 36IN LH PULL-OUT	1
11	3-276-010708	EXTENSION 36IN RH PULL-OUT	1
12	3-276-010707	EXTENSION 21IN PULL-OUT	14,16,18*
13	3-276-010706	EXTENSION 21IN FRONT PULL-OUT	2
14	3-276-010774	EXTENSION WHEEL WELL BRIDGE	4
15	101062	BRACKET FLAG HOLDER	6
16	516-22PTL	RETAINING PIN MUD FLAP	6
17	1-533-010001	WING NUT 1/2	6

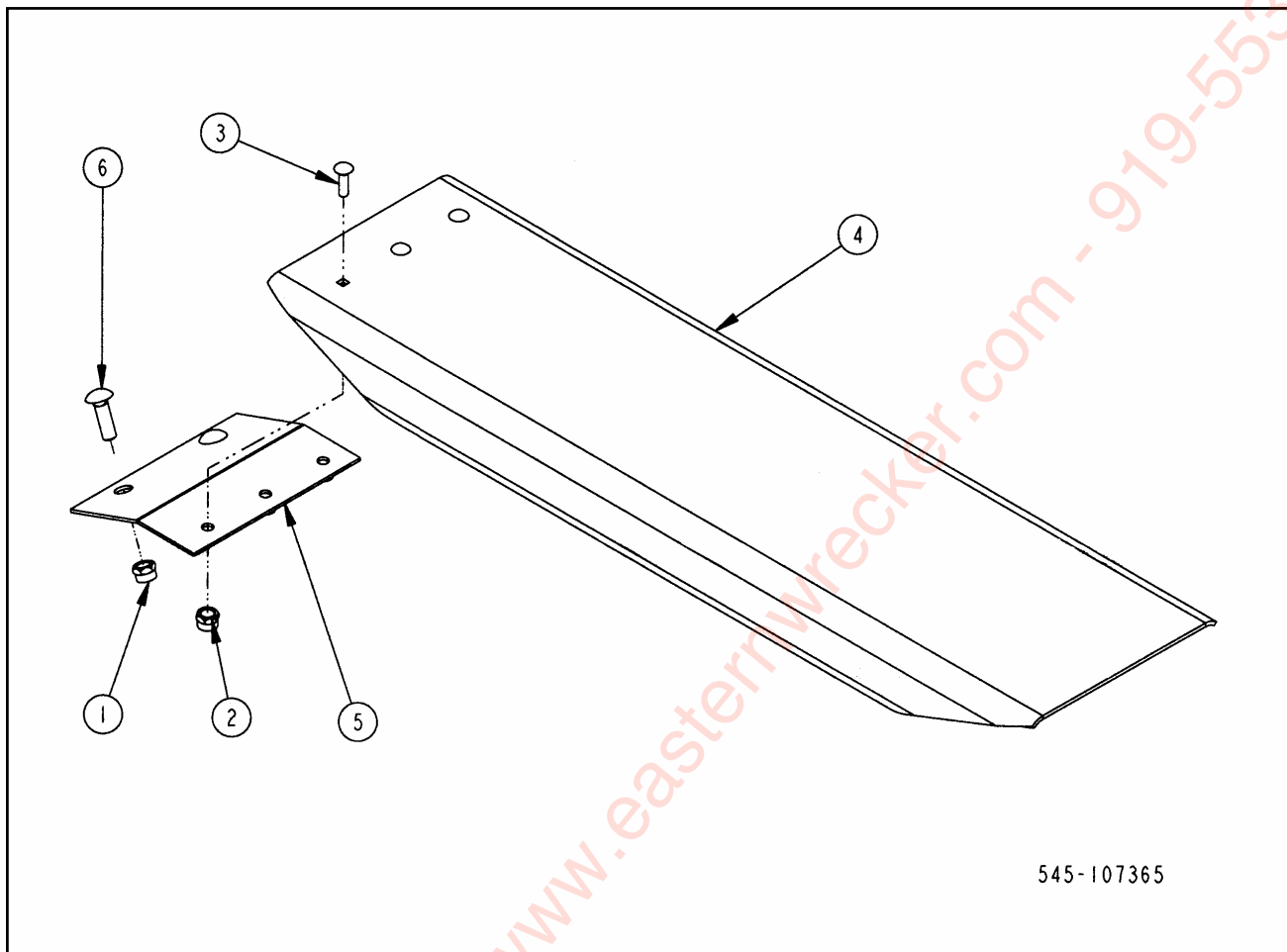


Figure 1-80 Ramps (Optional)

EXTENSION INSTALLATION PULL-OUT 317B (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
18	1-654-010055-14	SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5	6
19	3-125-010222	BRACKET, WELDMENT LOCK PULL OUT EXT.	AR

*FIRST QUANTITY IS FOR THE 48' TRAILER, SECOND QUANTITY IS FOR THE 50' TRAILER, THIRD QUANTITY IS FOR THE 53' TRAILER.

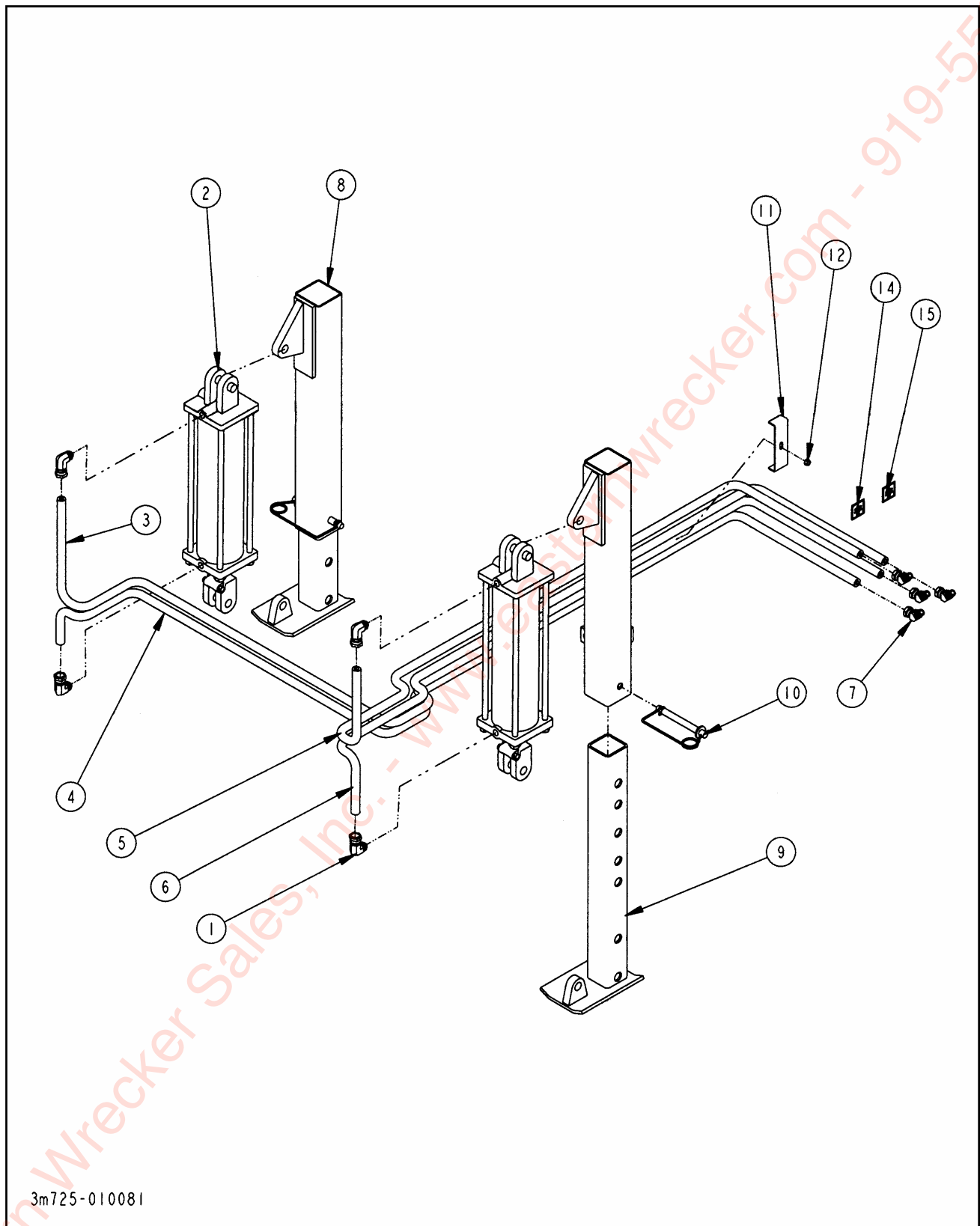


Figure 1-81 Landing Gear Instal.- Hydraulic (Optional)

EXTENSION INSTALLATION PULL-OUT 318B (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	104410	EXTENSION INSTALLATION 48	
	104411	EXTENSION INSTALLATION 50	
	104412	EXTENSION INSTALLATION 53	
1	104252	PIN P/O EXT LOCK	22,24,26*
2	104253	SPRING COMPRESSION P/O EXT LOCK	22,24,26*
3	1-861-010032-15	WASHER FLAT 1/2W	6
4	1-657-010004177	PIN SPRING SLOTTED	22,24,26*
5	104413	EXTENSION 14IN LH REAR PULL-OUT	1
6	104414	EXTENSION 14IN RH REAR PULL-OUT	1
7	104415	EXTENSION 19IN LH REAR PULL-OUT	1
8	104416	EXTENSION 19IN RH REAR PULL-OUT	1
9	104417	EXTENSION LH BETWEEN AXLE PULL-OUT	2
10	104418	EXTENSION RH BETWEEN AXLE PULL-OUT	2
11	3-276-010729	EXTENSION 34IN LH 3 TUBE PULL-OUT	1
12	3-276-010718	EXTENSION 34IN RH 3 TUBE PULL-OUT	1
14	3-276-010774	EXTENSION WHEEL WELL BRIDGE	6
15	101062	BRACKET FLAG HOLDER	6
16	516-22PTL	RETAINING PIN MUD FLAP	6
17	1-533-010001	WING NUT 20 1/2-13 TYPE A	6
19	104420	EXTENSION RH WHEEL WELL PULL-OUT	1
20	104419	EXTENSION LH WHEEL WELL PULL-OUT	1
21	3-276-010715	EXTENSION LH PULL-OUT 323-23/16	5,6,7*
22	3-276-010755	EXTENSION RH PULL-OUT 323-23/16	5,6,7*
23	105343	RACK WELDMENT EXT BRIDGE STORAGE	1
24	105355	MUD FLAP MOD BRIDGE STORAGE	1
25	1-861-010032-11	WASHER FLAT 3/8W	5
26	1-510-010001	NUT FLANGE LOCK 3/8-16	5
27	105354	CLAMP MUD FLAP BRIDGE STORAGE RACK	1
28	1-654-010051-13	SCREW HEX HEAD CAP 3/8-16X3 GR5	3
29	105346	SUPPORT RACK EXT BRIDGE	1
30	3-861-010047	WASHER FLAT PUMP MOUNT	2
31	1-654-010051-16	SCREW HEX HEAD CAP 3/8-16X3-3/4 GR5	2
38	1-654-010055-14	SCREW HEX HEAD CAP 1/2-13X4-1/2 GR5	6
39	104251	BRACKET, PULL-OUT EXTENSION LOCK PIN	AR

* FIRST QUANTITY IS FOR THE 48 TRAILER, SECOND QUANTITY IS FOR THE 50 TRAILER, THIRD QUANTITY IS FOR THE 53 TRAILER.

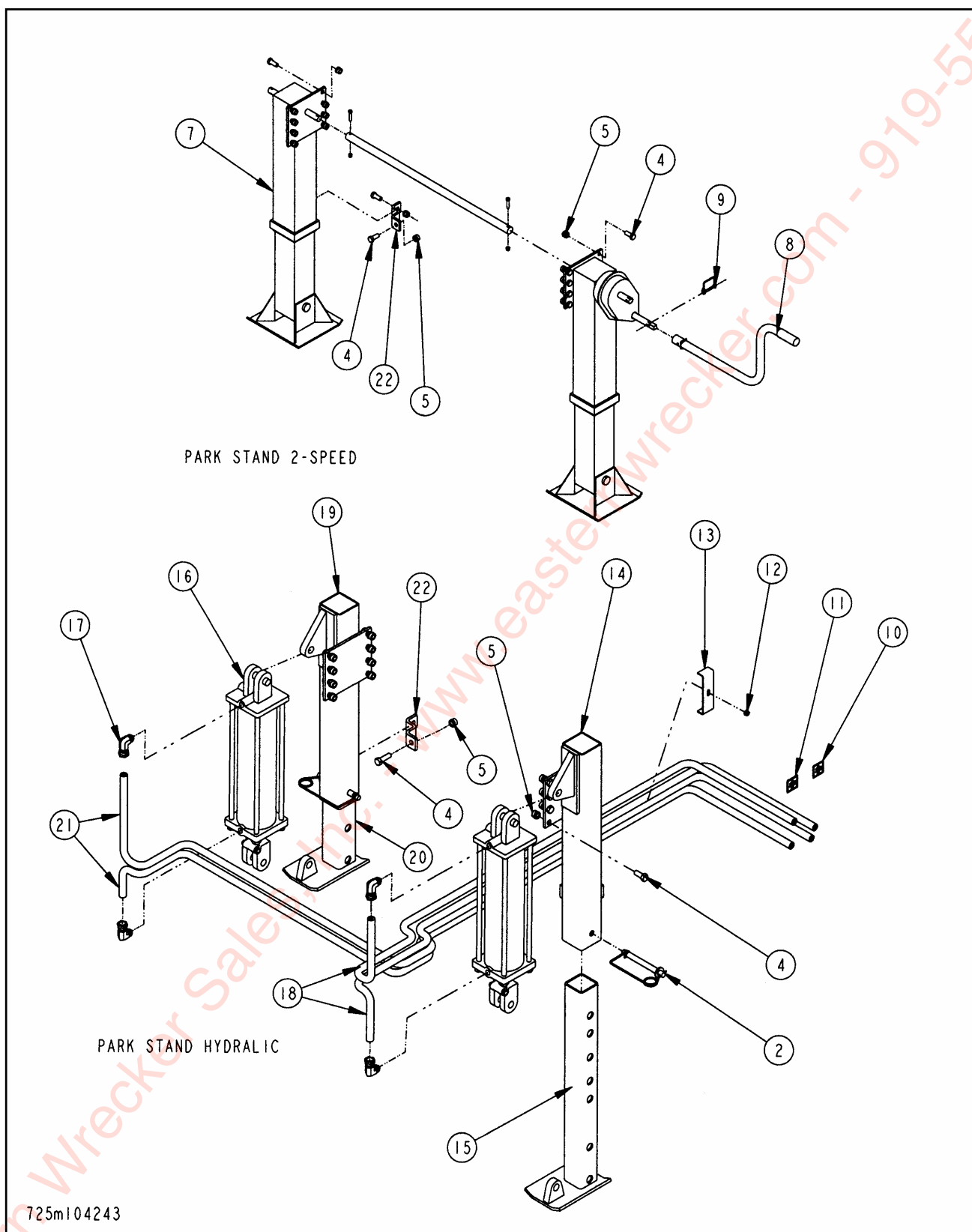


Figure 1-82 Landing Gear Instal.- Bolt-On (Optional)

EXTENSION INSTALLATION FLIP-UP 319B (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	104610	EXTENSION INSTALLATION FLIP-UP 48	
1	104252	PIN P/O EXT LOCK	4
2	104253	SPRING COMPRESSION P/O EXT LOCK	4
3	104597	PIN SPRING SLOTTED	1
4	104835	EXTENSION REAR PULLOUT LH	1
5	104836	EXTENSION REAR PULLOUT RH (NOT SHOWN)	1
6	104837	EXTENSION 48 1ST	1
7	104838	EXTENSION 48 2ND/4TH	1
8	104839	EXTENSION 48 3RD/5TH FLIP-UP LH	1
9	104840	EXTEN. 48 3RD/5TH FLIP-UP RH (NOT SHOWN)	1
10	104841	EXTENSION 48 6TH FLIP-UP	1
11	104843	EXTENSION 48 REAR FLIP-UP LH	1
12	3-276-010051	EXTENSION SUPPORT	12
13	3-276-010053	FRONT EXTENSION SUPPORT LEFT	1
14	3-276-010054	FRONT EXTENSION SUPPORT RIGHT	1
15	3-557-010029	HINGE PIN TR OVERWIDTH	38
16	3-557-010042	SUPPORT TUBE PIN	28
17	1-533-010001	WING NUT 20 1/2-13 TYPE A	6
18	1-557-010403	HAIRPIN 1/8	28
19	1-647-010004213	PIN SPRING SLOT 1/4 X 1	76
20	1-654-010055-11	SCREW HEX HEAD CAP 1/2-13 X 3-1/2 GR5	6
21	101062	BRACKET FLAG HOLDER	6
22	1-861-010032-15	WASHER, FLAT 1/2W	6
23	104844	EXTENSION, 48 REAR FLIP-UP RH (NOT SHOWN)	1

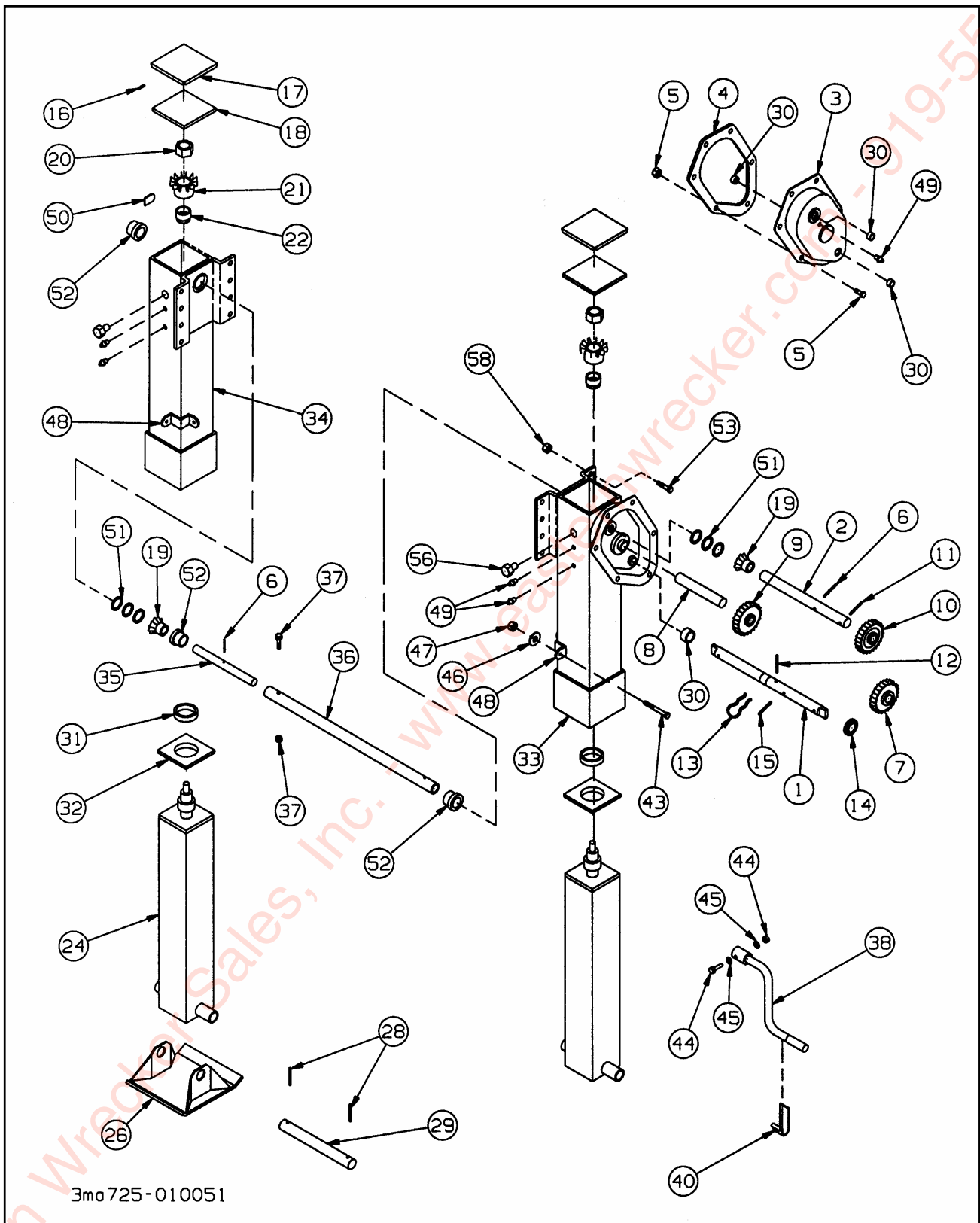


Figure 1-83 Landing Gear w/ Crank

OUTRIGGER INSTALLATION 318B (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	105834	OUTRIGGER INSTALLATION 48	
	105835	OUTRIGGER INSTALLATION 50	
	105836	OUTRIGGER INSTALLATION 53	
1	104252	PIN P/O EXT LOCK	2
2	104253	SPRING COMPRESSION P/O EXT LOCK	2
4	1-647-010004177	PIN SPRING SLOTTED 3/16-1-1/2	2
5	3-720-010024	SPRING 1-1/16 X 2-3/4	34
6	3-187-010001	CLIP OUTRIGGER STAY	34
7	167-0022	OUTRIGGER FOR 10 CHANNEL	34
8	101386	PIN COTTER	34
9	1-861-010032-07	WASHER FLAT	34
10	0600-375-01500	PIN ROLL 3/8X1-1/2	34

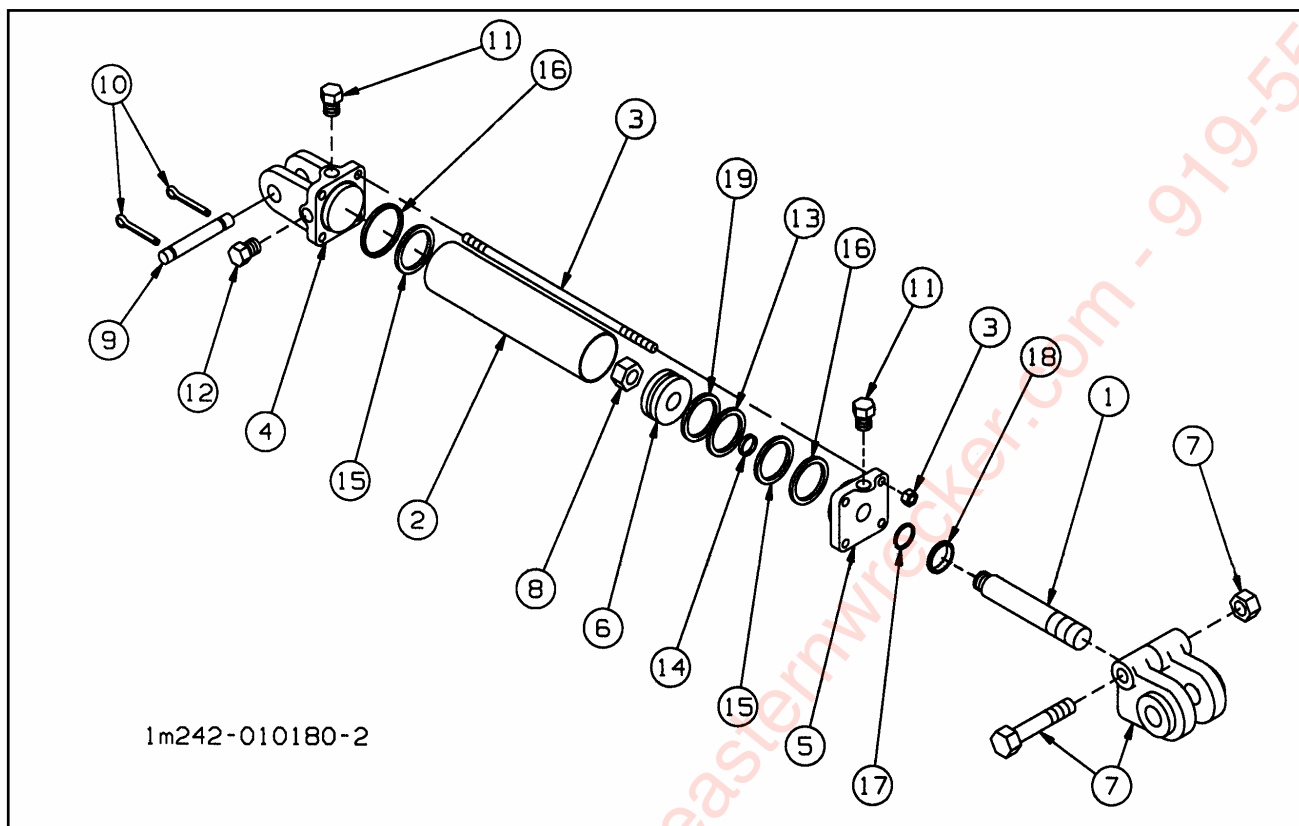


Figure 1-84 Hydraulic Cylinder 3-1/2 x 20

RAMPS (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	B3-619-007	RAMPS ALUMINUM	
1	1-512-010005-09	NUT HEX LOCK	6
2	1-512-010005-15	NUT HEX LOCK 1/2-13 GRB	4
3	1-654-010069-3	SCREW RD HEAD SQ NECK 1/2-13X1-3/4 GR2	6
4	3-619-010059	ALUM RAMP ASSEMBLY 60IN	2
5	3-619-010061	ANCHOR ASSEMBLY ALUM RAMP	2
6	1-654-010070-04	SCREW RD HEAD SQ NECK 3/4-10X2-1/2 GR5	4

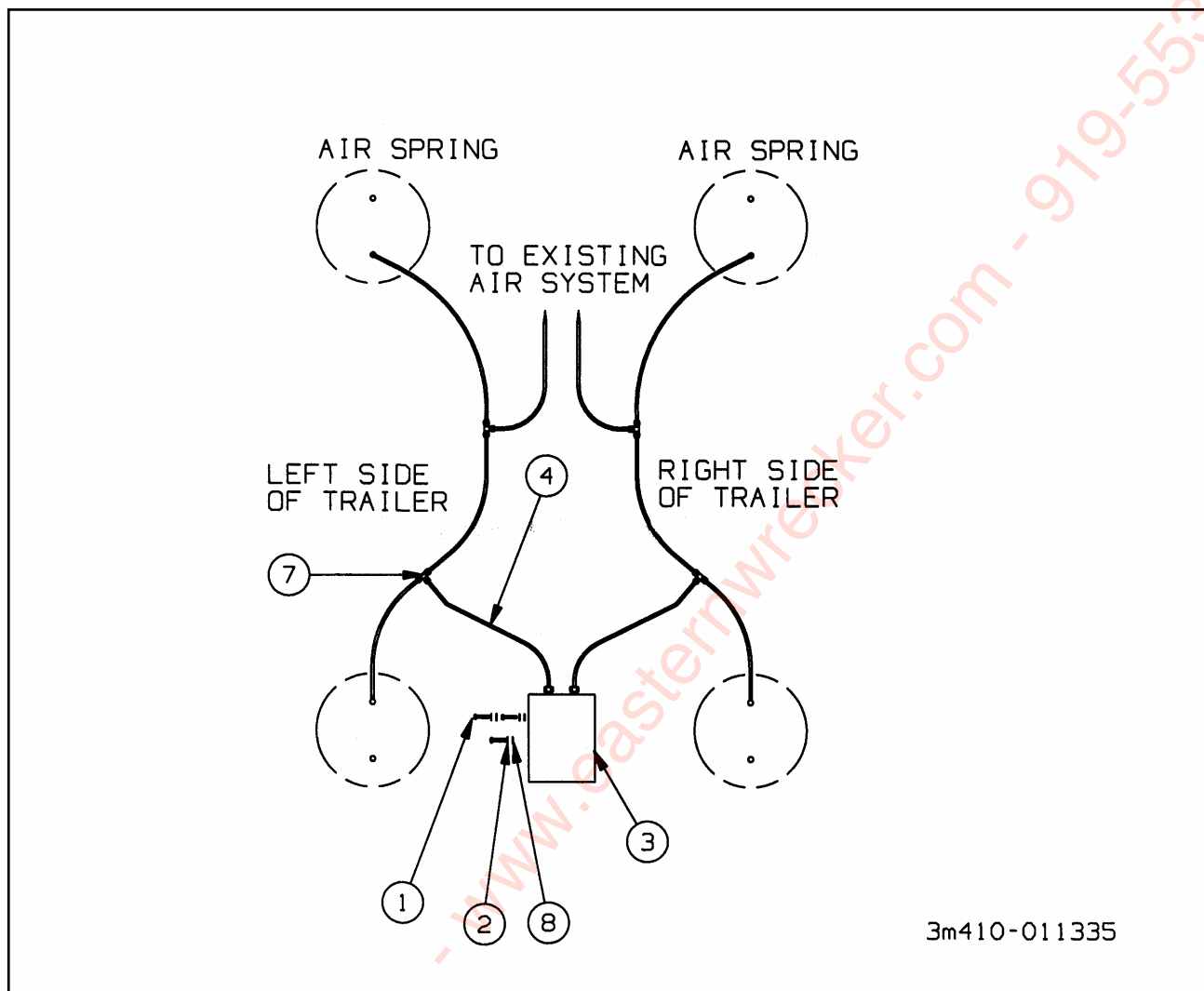


Figure 1-85 Scale-o-matic (Optional)

LANDING GEAR INSTALLATION HYDRAULIC (OPTIONAL) (317B)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-725-010081	PARKING STAND, HYDRAULIC	
1	2062-8-8S	ADAPTER 90 #8 O-RING - TUBE	4
2	1-242-010180-2	CYLINDER HYDRAULIC 3000PSI (SEE PAGE 1-158)	2
3	1-397-010301124	HOSE ASSEMBLY	1
4	1-397-010301122	HOSE ASSEMBLY	1
5	1-397-010301084	HOSE ASSEMBLY	1
6	1-397-010301076	HOSE ASSEMBLY	1
7	2061-8-8S	ADAPTER 45 #8 O-RING - TUBE	4
8	3-482-010553	MOUNT WELDMENT	REF
9	3-725-010082	PARKING STAND WELDMENT	2
10	346SL	LOCK HITCH PIN	2
11	3-181-010006	HOSE CLAMP 350	1
12	1-510-010001	NUT FLANGE LOCK 3/8-16	1

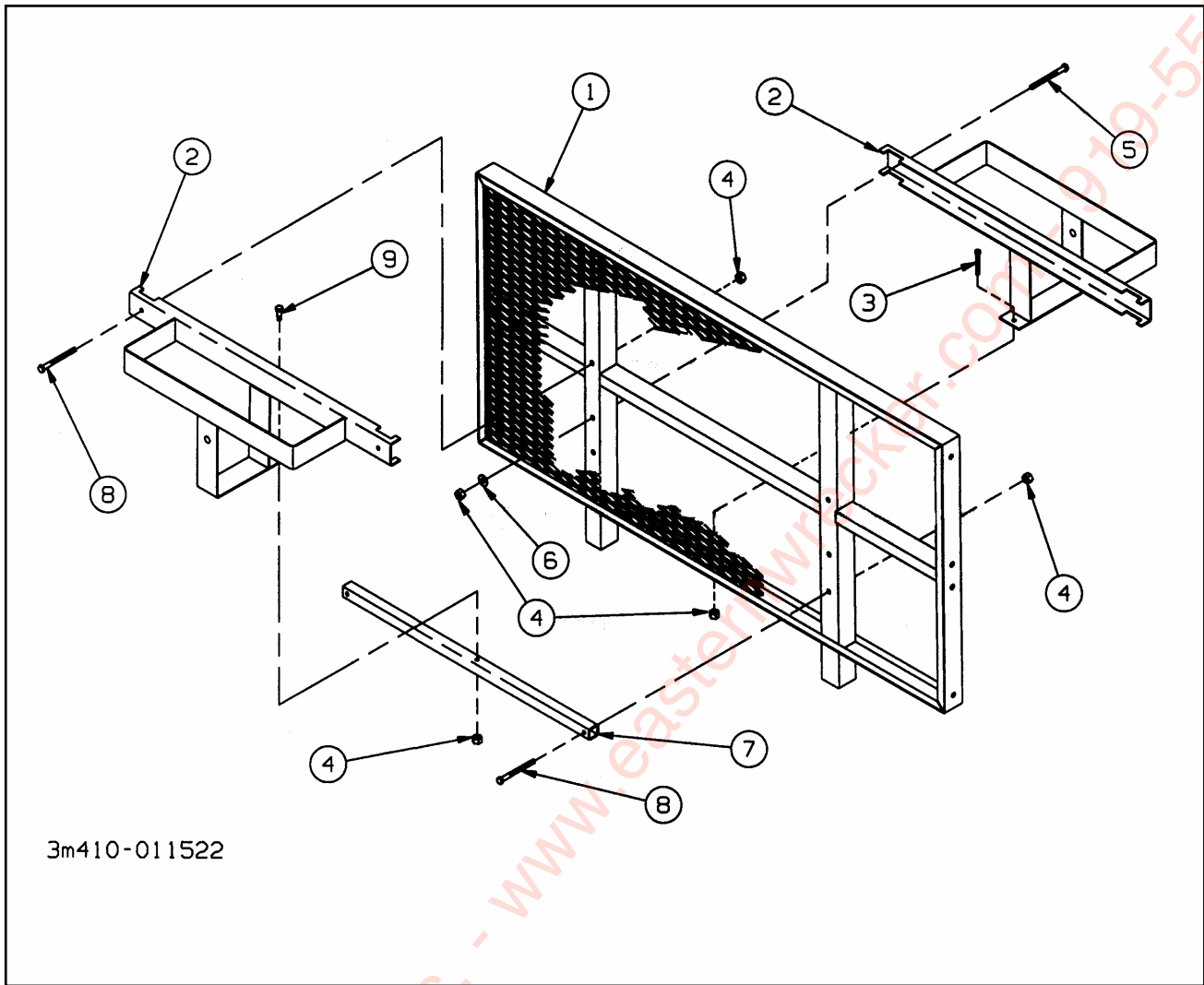


Figure 1-86 Spare Tire Carrier (Optional)

LANDING GEAR INSTALLATION HYDRAULIC (OPTIONAL) (317B)

ITEM	PART NO.	DESCRIPTION	QTY.
13	1-790-010003-02	TIE STRAP PLASTIC (NOT SHOWN)	6
14	3-573-010465	DECAL HYDRAULIC PARK STAND LH	1
15	3-573-010466	DECAL HYDRAULIC PARK STAND RH	1

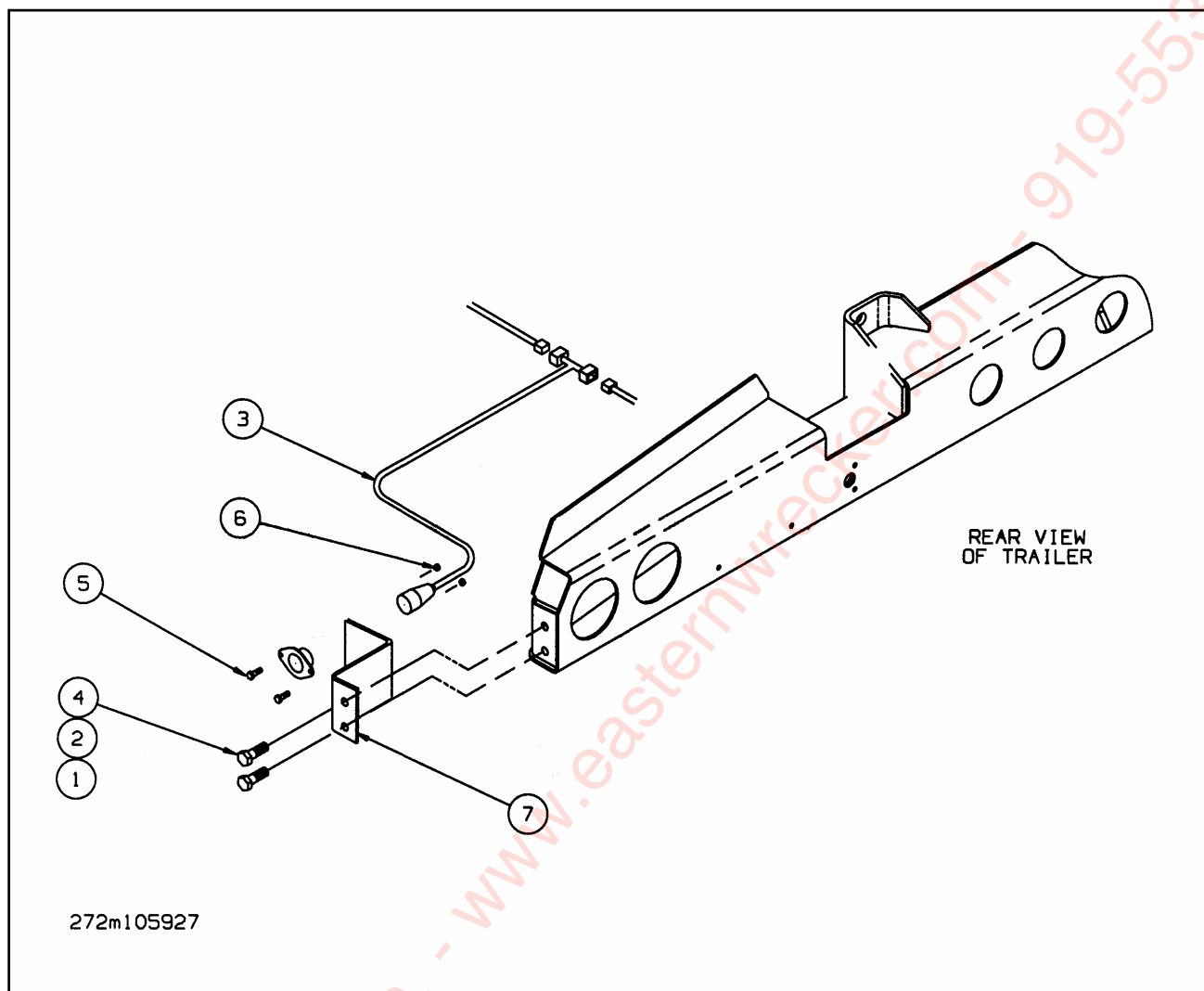


Figure 1-87 Electrical Installation, 7-Way Recp Bumper

LANDING GEAR INSTALLATION BOLT - ON (OPTIONAL) (318B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
	104244	PARK STAND INST., BOLT-ON (ITEMS 2-5, 10-22)	
	104245	PARK STAND INST., BOLT-ON (ITEMS 2 - 9)	
2	346SL	PIN	2
4	1-654-010059-13	SCREW HEX HEAD CAP 5/8-11X1-1/2	20
5	1-654-010005-13	NUT HEX LOCK 5/8-11 GRB	20
7	104246	LAND GEAR 180,000 W/19" CRANK (SEE PAGE 1-157)	1
8	104247	HANDLE MOD CRANK LANDING GEAR	1
9	516-22PTL	RETAINING PIN MUD FLAP	1
10	3-573-010465	DECAL HYDRAULIC PARK STAND LH	1
11	3-573-010466	DECAL HYDRAULIC PARK STAND RH	1
12	1-510-010001	NUT FLANGE LOCK 3/8-16	2
13	3-181-010006	HOSE CLAMP 350	2
14	104239	PARK STAND WELDMENT HYD LH BOLT-ON	1
15	104241	PARK STAND WELDMENT HYD LH LEG	1

LANDING GEAR INSTALLATION BOLT - ON (OPTIONAL) (318B & 319B)

ITEM	PART NO.	DESCRIPTION	QTY.
16	1-242-010180-2	CYLINDER HYDRAULIC 3000 PSI (SEE PAGE 1-158)	2
17	2062-8-8S	ADAPTER 90 #8 O-RING TUBE	4
18	1-397-010301100	HOSE ASSEMBLY	2
19	104240	PARK STAND WELDMENT HYD RH BOLT-ON	1
20	104242	PARK STAND WELDMENT HYD RH LEG	1
21	1-397-010301136	HOSE ASSEMBLY	2
22	104238	ANCHOR LWR BOLT-ON PARK STAND	2

LANDING GEAR W/ CRANK

ITEM	PART NO.	DESCRIPTION	QTY.
	3-725-010051	LAND GEAR 120000 (HOLLAND #LG75-3A105)	
	104246	LAND GEAR 180000 (HOLLAND #LG75-3A105)	
1	XA-V-05159-A	DRIVE AND GEAR SHAFT	1
2	XA-V-05123-A	DRIVE GEAR SHAFT	1
3	XA-V-1920	GEARBOX COVER	1
4	XB-V-1926	GASKET	1
5	XB-CX-14-28-F-58	HEX HEAD CAP SCREW 1/4-28 X 5/8	6
	XB-3103	NUT LOCK 1/4 X 28	6
6	XB-020065	GROOVE PIN	2
7	XA-V-1927	IDLER GEAR	1
8	XA-V-1957	IDLER GEAR SHAFT	1
9	XA-V-1928-1	STEP GEAR (UNDRILLED)	1
10	XA-V-1928	STEP GEAR (DRILLED)	1
11	XB-21-S-375-1500	SPIRAL PIN 3/8 X 1-1/2	1
12	XB-21-S-187-1250	SPIRAL PIN 1/16 X 1-1/4	1
13	XB-V-1949	SHIFTER SPRING	1
14	XA-V-1929	SHIFTER GEAR	1
15	XA-CRP-V-1917	PIN 3/8 X 1-7/16	1
16	XB-04112	SELF TAPPING SCREW	4
17	XA-V-03824	UPPER LEG COVER	2
18	XB-V-1966	GASKET	2
19	XA-V-04204-1	BEVEL PINION	2
20	XB-FW-25	JAM NUT 1-14	2
21	XA-V-04205-1	BEVEL GEAR	2
22	XB-V-643-A2	BUSHING	2
24	XA-V-05356-0 -5	INNER LEG & SCREW ASSEMBLY	2
26	XA-V-796-B-1	SKID FOOT 12 X 11-1/2	2
28	XB-21-S-375-3000	ROLL PIN 3/8 X 3	
29	XA-V-1901-1	AXLE	2
30	XB-V-851	BUSHING	4
31	XB-V-V-647	THRUST BEARING	2
32	XA-V-1913	THRUST BEARING	2
33	XA-V-03876-0 -5	OUTER LEG ASSEMBLY (2 SPEED)	1
34	XA-V-03875-0 -5	OUTER LEG ASSEMBLY (SINGLE SPEED)	1
35	XA-V-05122-A	DRIVE GEAR SHAFT	1
36	XA-V-1910	CROSS SHAFT	1
37	XB-V-444-1	HEX HEAD CAP SCREW 3/8-16 X 1-3/4	2
	XB-338	LOCKNUT 3/8-16	2
38	XA-S9-3105	TUBULAR HAND CRANK (MODIFIED)	1
	XA-V-90-10	CRANK, 17"	1
	XA-V-90-11	CRANK, 19"	1
40	104247	CRANK HANGER	1
43	1-654-010059-09	SCREW HEX HEAD CAP 5/8-11 X 3 GR5	2
44	XB-C-38-C-214	HEX HEAD CAP SCREW 3/8-16	1
	XB-338	LOCKNUT 3/8-16	1
45	XB-1108	SAE 3/8-16	2
46	1-861-010034-15	WASHER SPLIT LOCK 5/8	4
47	1-512-010005-13	NUT HEX LOCK 5/8-11 GR B	4
48	XA-V-1938	BRACE	2
49	XB-767	LUBE FITTING	5
50	XB-H-32-2	WOODRUFF KEY	2
51	XB-03816	SHIM	AR
52	XB-0307	BEARING	3
53	1-654-010055-05	SCREW HEX HEAD CAP 1/2-13 X 2 GR5	18
56	XB-01789	LUBE PLUG	2
58	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	18

HYDRAULIC CYLINDER 3-1/2 X 20

ITEM	PART NO.	DESCRIPTION	QTY.
	3-242-010180-2	CYLINDER 3-1/2" X 20" (PRINCE SAE 33520)	
1	010700437	PISTON ROD	1
2	051700015	TUBE	1
3	170201241	TIEROD ASSEMBLY	4
4	141700023	BUTT	1
5	081700255	GLAND ASSEMBLY	1
6	071700174	PISTON	1
7	100000330	CLEVIS ASSEMBLY	1
8	220000210	LOCKNUT	1
9	190400004	CLEVIS PIN	2
10	220001504	COTTER PIN	4
11	200013106	PLASTIC PLUG	2
12	200300040	PORT PLUG	1
13	*	CROWN SEAL	1
14	*	O-RING	1
15	*	O-RING	2
16	*	BU-WASHER	2
17	*	U-CUP	1
18	*	WIPER	1
20	PMCK-SAE-33500	PACKING KIT (ITEMS 13 - 18) (CONTAINS ALL NECESSARY SEALS AND O-RINGS)	1

*PARTS AVAILABLE IN PACKING KIT ONLY.

SCALE-O-MATIC INSTALLATION (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-410-011335	SCALE-O-MATIC INSTALLATON 317B	
1	1-654-010047-06	SCREW HEX HEAD CAP 1/4-20X 1 GR5	4
2	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	4
3	3-762-010612	SCALE-O-MATIC 25000LB CAP	1
4	1-833-010001	NYLON TUBING 1/4OD	10
5	3-146-010072	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

SPARE TIRE CARRIER (OPTIONAL)

ITEM	PART NO.	DESCRIPTION	QTY.
	3-612-010015-1	RACK INSTALLATION BHD, FRONT MOUNT	
	3-612-010015-2	RACK INSTALLATION BHD, REAR MOUNT	
1	3-141-010120	BULKHEAD WELDMENT	REF
2	3-612-010016	RACK WELDMENT BULKHEAD MOUNT	1
3	1-654-010055-01	SCREW HEX HEAD CAP 1/2-13X1 GR5	1
4	1-512-010005-09	NUT HEX LOCK 1/2-13 GRB	3,5*
5	1-654-010055-15	SCREW HEX HEAD CAP 1/2-13X5 GR5	2
6	1-861-010032-15	WASHER FLAT 1/2W	2
7	3-829-010337	TUBE W/TAB	1
8	1-654-010055-18	SCREW HEX HEAD CAP 1/2-13X6-1/2 GR5	4
9	1-654-010055-09	SCREW HEX HEAD CAP 1/2-13X3 GR5	1

*FIRST QUANTITY IS FOR THE FRONT MOUNT, SECOND QUANTITY IS FOR THE REAR MOUNT.

MISCELLANEOUS OPTIONS

ITEM	PART NO.	DESCRIPTION	QTY.
	105927	ELECTRICAL INSTALLATION 7-WAY AT BUMPER	1
1	1-861-010032-15	WASHER, FLAT 1/2	4
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	2
3	3-368-010257	HARNESS MODIFIED EXT 7-WAY RECP.	1
4	1-512-010005-03	NUT, HEX LOCK 1/2-13 GRB	2
5	1-654-010049-06	SCREW HEX HEAD CAP 5/16-18 X 1-1/4 GR5	2
6	1-512-010005-03	NUT HEX LOCK 5/16-18 GRB	2
7	106600	BRACKET 7WAY AT BUMPER	1

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