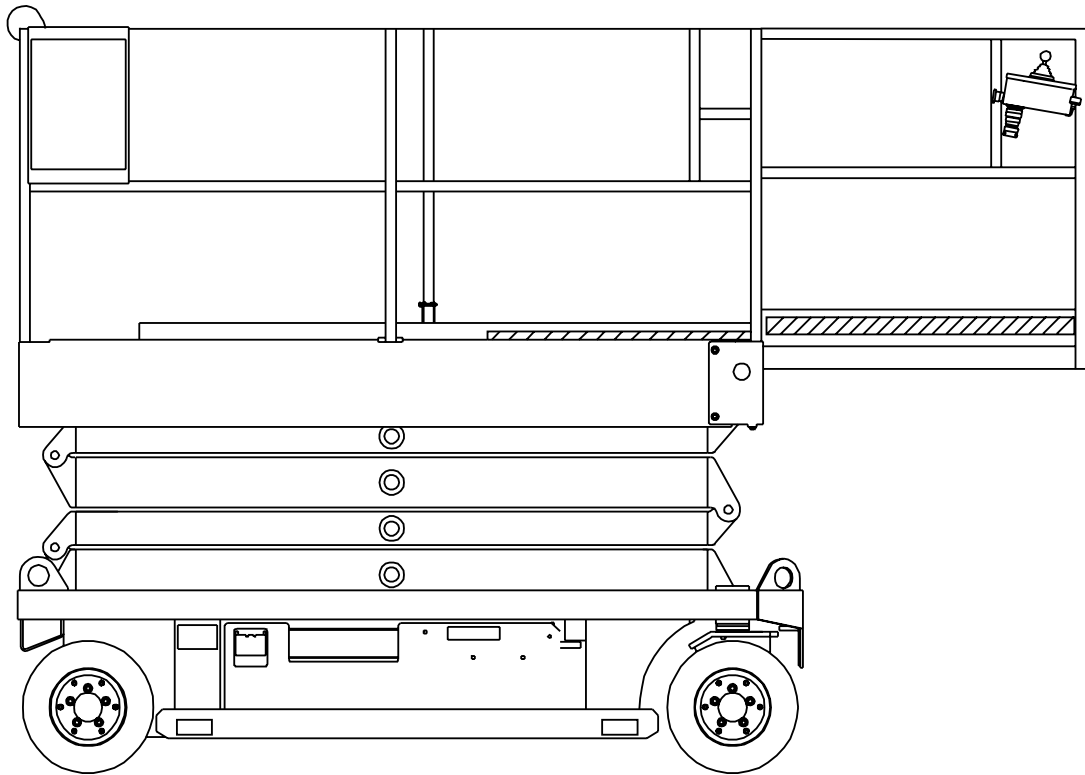


Repair Parts Manual



Manufactured 02-01 and after

S2545

About this manual:

This repair parts manual covers current production machines only.

While Snorkel has attempted in every way to confirm that all information in this manual is correct, improvements are being constantly made to the machine that may not be reflected in this manual.

If you find information in this manual that is not correct, or is confusing, you are urged to report your findings to Snorkel for our evaluation.

Your input is important to us and will be used in future printings of this manual.

Every person who repairs this machine must be qualified and authorized to do so.

▲CAUTION

DO NOT modify this aerial platform without prior written consent of Snorkel Engineering Department. Modification may void the warranty, adversely affect stability, or affect the operational characteristics of the aerial platform.

This machine is covered by a limited warranty that specifically identifies items warranted by Snorkel and those items covered by original manufacturers warranty.

A copy of the Snorkel Limited Warranty is located on the inside of the back cover of this manual.

All correspondence relative to this machine, such as field reports, discrepancy reports, requests for information, etc., should be directed to:

Snorkel International, Inc.
P.O. Box 1160
St. Joseph, MO 64502-1160 USA
Phone: (816)-364-0317
<http://www.snorkelusa.com>

Abbreviations

The following abbreviations may be used in this manual:

AC alternating current
ANSI American National Standards Institute
CCA cold cranking amps
cm centimeter
DC direct current
EMS envelope management system
GFCI ground fault circuit interrupt
LP liquified petroleum
LPG liquified petroleum gas
mm millimeters
ft feet
in inch
lbs pounds
no number

NPT national pipe thread
psi pounds per square inch
qty quantity
UL Underwriters Laboratories Inc.

Electrical Hazard

▲DANGER

The aerial platform is not electrically insulated. Death or serious injury can result from contact with, or inadequate clearance from, an energized conductor.

Do not go closer than the minimum safe approach distance as defined by the minimum Safe Approach Distance as defined by ANSI Standards.

Regard all conductors as energized.

Allow for electrical wire sag and aerial platform sway.

If the work platform, or any part of the aerial platform contacts a high-voltage electrical conductor, the entire machine can become electrically charged.

If that happens, remain on the machine and do not contact any other structure or object. This includes the ground, adjacent buildings, poles, and any other objects that are not part of the aerial platform.

Such contact could make your body a conductor to the other object, creating an electrical shock hazard resulting in death or serious injury.

If an aerial platform is in contact with an energized conductor the platform operator must warn ground personnel in the vicinity to stay away. Their bodies can conduct electricity creating an electrical shock hazard resulting in death or serious injury.

Do not approach or leave the aerial platform until the electricity has been turned off.

Do not attempt to operate the lower controls when the work platform or any part of the aerial platform is in contact with a high-voltage electrical conductor or if there is an immediate danger of such contact.

Personnel on or near an aerial platform must be continuously aware of electrical hazards, recognizing that death or serious injury can result from contact with an energized conductor.

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To order service or repair parts

When placing an order for service or repair parts, please have the following information available for your machine.

- ✓ Machine model number
- ✓ Machine serial number
- ✓ Snorkel part number
- ✓ Description of part
- ✓ Quantity of parts required
- ✓ Your purchase order number
- ✓ Address for order to "Ship To"
- ✓ Your desired shipment method

The parts order form on the following page may be mailed or faxed to the attention of Parts Worldwide at the following location:

Snorkel International, Inc.
P.O. Box 1160
St. Joseph, MO 64502-1160 USA

Phone: 1-(800)-255-0317
Parts Worldwide Fax: (816)-364-6312

Attention: Parts Department

For your convenience, our electronic on-line ordering system is available at the following Internet location:

<http://www.omniquip.com>

ANSI and OSHA compliance

All owners and users of the aerial platform must read, understand, and comply with all applicable regulations. Ultimate compliance to OSHA regulations is the responsibility of the user and their employer.

ANSI publications clearly identify the responsibilities of all personnel who may be involved with the aerial platform. A reprint of the "Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors and Lessees of ANSI/SIA A92.5-1992 Boom-Supported Elevating Work Platforms" is available from Snorkel dealers or from the factory upon request.

Copies are also available from:

Scaffold Industry Association
20335 Ventura Blvd. Suite 310
Woodland Hills, CA 91364-2471 USA

Manuals

Manuals are available from Snorkel to support any of the machines that we produce.

The specific manuals for S2545 are as follows:

- ✓ Operator's Manual
Snorkel part number - 0410002
- ✓ Repair Parts Manual
Snorkel part number - 302876
- ✓ ANSI Manual of Responsibilities
ANSI/SIA A92.6-1990

Record machine information here:

Model number

Serial number

Date of purchase

Purchased from

Snorkel dealer or distributor

Fill out completely and fax to (816)-364-6312 attention: Parts Worldwide

Date _____	Model _____
Company _____	Serial number _____
Address _____	Optional equipment _____
_____	Purchase order number _____
Contact name _____	Ship to _____
Phone number _____	_____
Fax number _____	_____
Account number _____	_____
Purchase order number _____	Ship by _____

[illegible]

Note: Backordered parts will be shipped as soon as available by the same shipping method as the original order unless indicated below:

- ☐ Ship complete order only - do not backorder parts.
- ☐ Ship all available parts and supply information of disposition of backordered parts.
- ☐ Other instructions as specified _____

Base frame

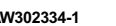
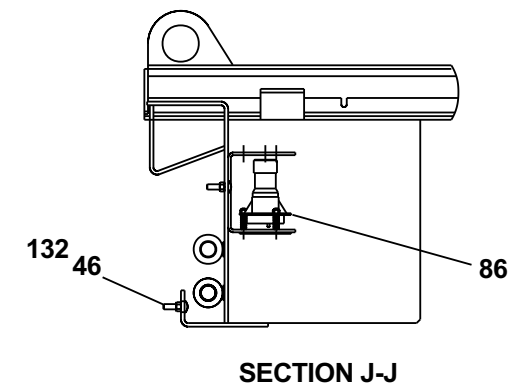
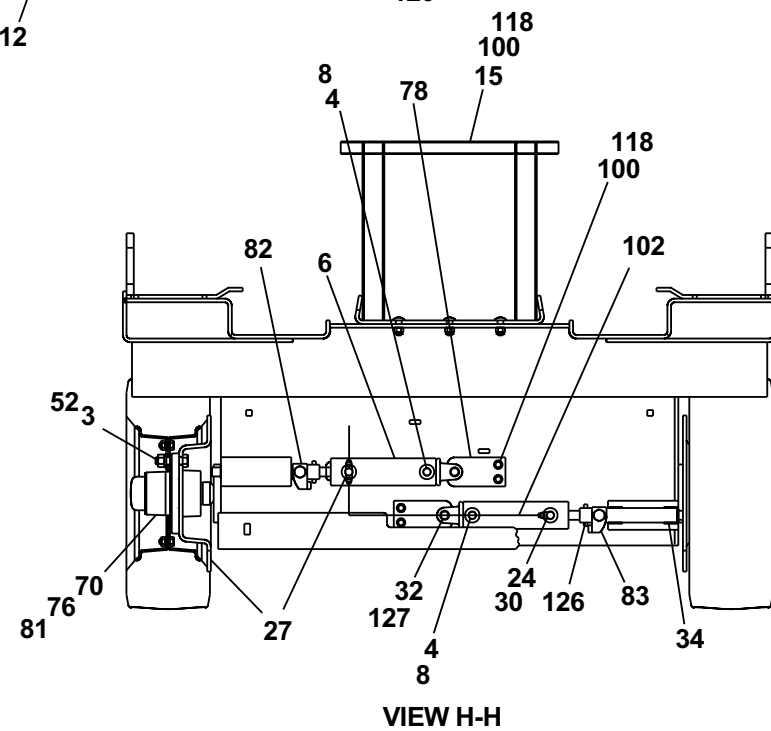
item	part no	qty	description
1	986389	2	Washer special .765 inch flat
2	5569941	4	Machine bushing 7/8 inch OD x 1/2 inch ID x 14 gauge thick
3	984459	10	Lug nut 1/2-20 hex 60°
4	5076116	2	Adapter
5	604076	4	Thrust bearing
6	590984-99	2	Cylinder, brake (see page 2-6 for Green cylinder) (see page 2-7 for Rosenboom cylinder)
7	561196	2	Bearing
8	5570008	1	Air vent
9	5090034	1	Hose guard x 12 inches long
10	3011403	1	Cable 14 gauge/3 conductor x 570 inches long
11	5093001	4	Clamp
12	5560082	1	Trim lock, 1/4 inch x 28 inches long
13	25560083	1	Trim lock x 12 inches long
14	5093013	4	Clamp
15	302536-99	1	Step
16	5093006	1	Clamp
17	5093002	4	Clamp
18	5074404	1	Bulkhead locknut
19	5065728	4	Straight thread adapter
20	302802	1	Proximity switch - (see page 3-13 for replacement parts)
21	5065705	2	Straight thread adapter
22	970969	1	Capscrew 1/2-13 x 3 inch long hex head grade 5
23	302624	1	Spacer
24	5036803	1	Swivel nut branch tee
25	5569940	1	Washer 1-1/2 OD x 1 ID x 1/16 inch thick
26	0150224-99	4	Clamp bar
27	5035303	3	Straight thread 90° elbow
28	5034404	4	Bulkhead union
29	984089	2	Nut 5/16-18 hex
30	5065703	1	Straight thread adapter
31	472326	2	Clevis pin 1/2 inch diameter x 1-1/8 inch grip
32	465276	2	Clevis pin 1/2 inch diameter x 1-9/32 inch grip
33	0151470	1	1/2 inch hydraulic tube
34	411226	4	Bearing
35	302434	2	1/2 inch hydraulic hose
36	302433	2	1/2 inch hydraulic hose
37	302766-99	1	Support
38	302431	2	Slide pad
39	988129	2	Cotter pin 5/32 inch diameter x 1-3/4 inch long
40	302428	8	Spacer, stabilizer
41	302427	4	Spring, stabilizer
42	302423-99	2	Guard, stabilizer
43	302574	2	Lanyard
44	970269	2	Capscrew 5/16-18 x 1-1/4 inch long hex head grade 5
45	5560031	4	Nut 5/16-18 self locking
46	984109	6	Nut 3/8-16 hex
47	302362-99	4	Block, stabilizer cross shaft
48	302361-99	4	Block, stabilizer cross shaft
49	302302-99	2	Hydraulic drive motor - (see page 2-10 for parts breakdown)
50	302284-99	2	Bracket, tray latch catch
			Parts list continued on next page

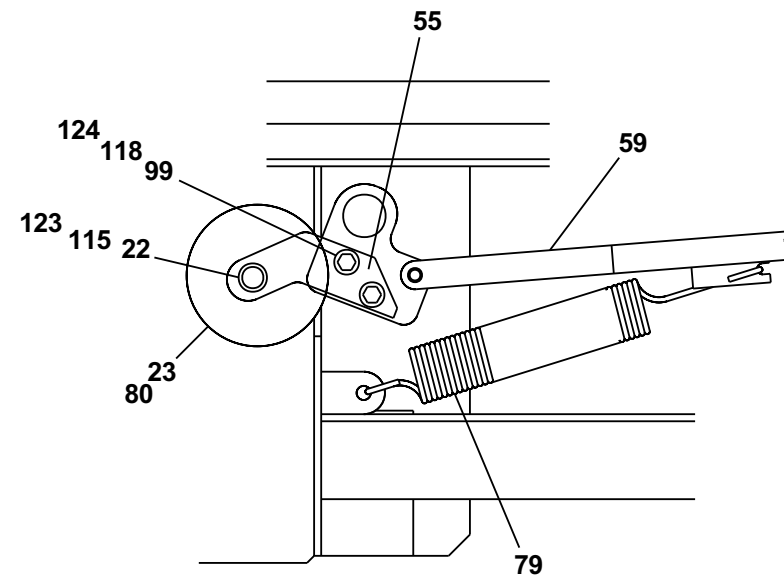
Base frame

item	part no	qty	description
51	302269-99	2	Hub
52	5569938	10	Capscrew 1/2-20 x 2-1/4 inch long hex head grade 5 full thread
53	302797-99	1	Stabilizer x-shaft, front
54	302798-99	1	Stabilizer x-shaft, rear
55	302252-99	1	Bracket, stabilizer
56	302248	4	Pin, headless 1/2 inch diameter x 1-1/4 inch long
57	972449	4	Capscrew 3/8-16 x 3/4 inch long socket flat head
58	302245-99	2	Link, stabilizer x-shaft
59	0360124-99	1	Pothole protection linkage
60	302243-99	2	Stabilizer skid
61	302238-99	4	Bracket, angle return spring
62	302236-99	8	Link half, stabilizer foot
63	302234	4	Block, stabilizer foot
64	302233	4	Stabilizer foot
65	0360742-99	1	Steering spindle, left hand
66	0360744-99	1	Steering spindle, right hand
67	302229-99	2	Pin cap, steering
68	0360504-99	1	Link, steering connector
69	302779-99	1	Base frame
70	301480-99	2	Bearing hub - (see page 1-7 for parts breakdown)
71	301277	4	Shoulder bolt 3/8-16 x 1-1/4 inch long
72	301464-99	2	Brake disc
73	301443	2	Swivel long 90°
74	301442	2	Swivel short 90°
75	301406-99	2	Pin tray adjuster
76	8070320	2	Cotter pin 1/8 inch diameter x 1-1/2 inch long
77	301402	2	Bearing, flanged
78	301341-99	2	Bracket, brake cylinder
79	301286-99	1	Stabilizer shaft spring
80	302625	1	Stabilizer roller
81	5569939	2	Washer 2 inch OD x 1-1/16 inch ID x 1/8 inch thick
82	300928	1	Brake pin, left hand
83	300927	1	Brake pin, right hand
84	300778	9	Locknut, centerlock
85	300769-99	8	Connector link half
86	302800	1	Level sensor, 2 axis - 2° and 4°
87	300729	10	Capscrew, special
88	5560354	9	Carriage bolt 1/2-13 x 1-1/2 inch long
89	300395	4	Bearing
90	300393	2	Pin
91	0360794	4	Clevis pin
92	6047078-99	1	Cylinder, steering - (see page 2-10 for parts breakdown)
93	302984	4	Bearing
94	300354	2	Thrust washer
95	300351	5	Bearing
96	2593404	8	Bearing
97	2590711	10	Bushing
98	2501616	4	Bearing
99	970489	2	Capscrew 3/8-16 x 1-1/2 inch long hex head grade 5
100	972439	11	Carriage bolt 3/8-16 x 1-1/4 inch long
			Parts list continued on next page

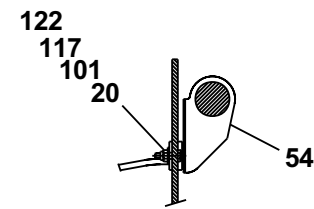
Base frame

item	part no	qty	description
101	970049	2	Capscrew 1/4-20 x 1 inch long hex head grade 5
102	5560354	9	Carriage bolt 1/2-13 x 1-1/2 inch long
103	971069	8	Capscrew 1/2-13 x 2-3/4 inch long hex head grade 5
104	970469	9	Capscrew 3/8-16 x 1 inch long hex head grade 5
105	5569934	2	Set screw 1/4-20 x 3/8 inch long hex socket flat point
106	970369	2	Capscrew 5/16-18 x 1 inch long hex head grade 5
107	5569819	2	Capscrew, special serrated head
108	5561557	2	Capscrew 3/4-10 x 3 inch long hex head grade 5
109	970449	4	Capscrew 3/8-16 x 3/4 inch long hex head grade 5
110	970459	8	Capscrew 3/8-16 x 7/8 inch long hex head grade 5
111	970479	10	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
112	5569933	2	Washer .531 medium flat
113	968379	2	Snap ring
114	970949	2	Capscrew 1/2-13 x 2-1/2 inch long hex head grade 5
115	5560039	13	Nut 1/2-13 self locking
116	301402	2	Bearing, flanged
117	5560004	7	Nut 1/4-20 self locking
118	5560033	41	Nut 3/8-16 self locking
119	5560586	1	Washer 3/8 star tooth lock
120	986269	37	Washer 5/16 medium flat
121	986459	2	Washer 3/4 medium flat
122	986019	7	Washer 1/4 medium flat
123	986359	9	Washer 1/2 medium flat
124	986299	1	Washer 3/8 medium flat
125	989689	8	Roll pin 1/4 inch diameter x 2-3/4 inch long
126	989739	2	Roll pin 1/4 inch diameter x 1 inch long
127	5560056	4	Roll pin 1/8 inch diameter x 1 inch long
128	987119	16	Washer 3/8 medium lock
129	989379	4	Roll pin 1/8 inch diameter x 1-1/4 inch long
130	972589	4	Carriage bolt 1/4-20 x 1 inch long
131	5560350	13	Carriage bolt 3/8-16 x 1 inch long
132	5560531	4	Carriage bolt 3/8-16 x 1-1/2 inch long
133	488176-99	4	Tire, solid non-marking 5 x 8 white

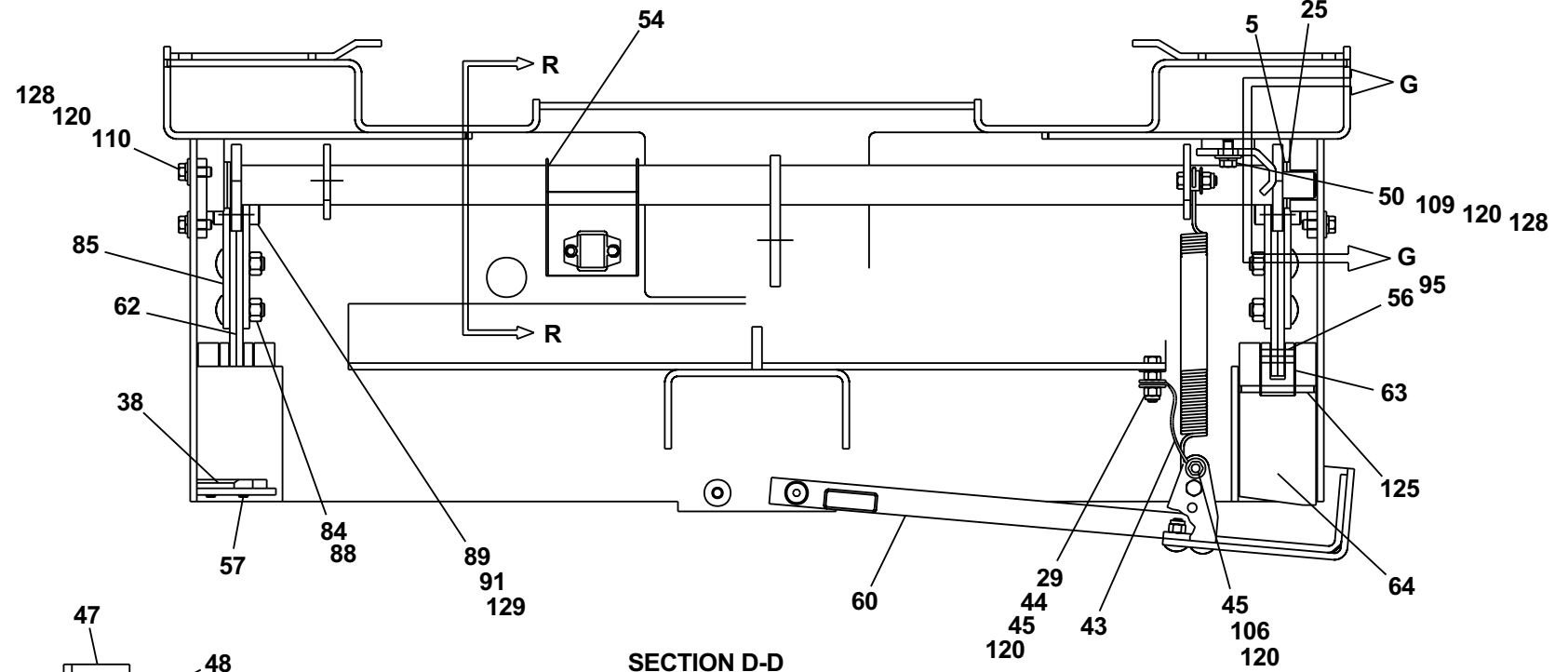




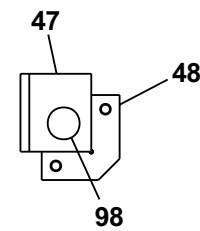
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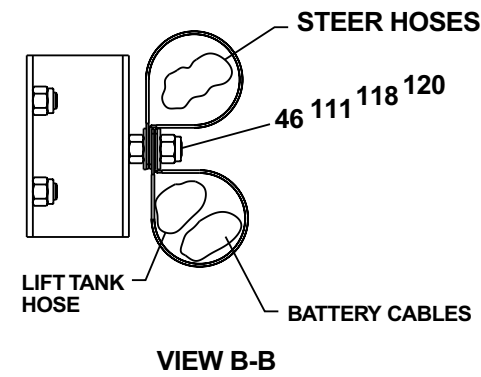
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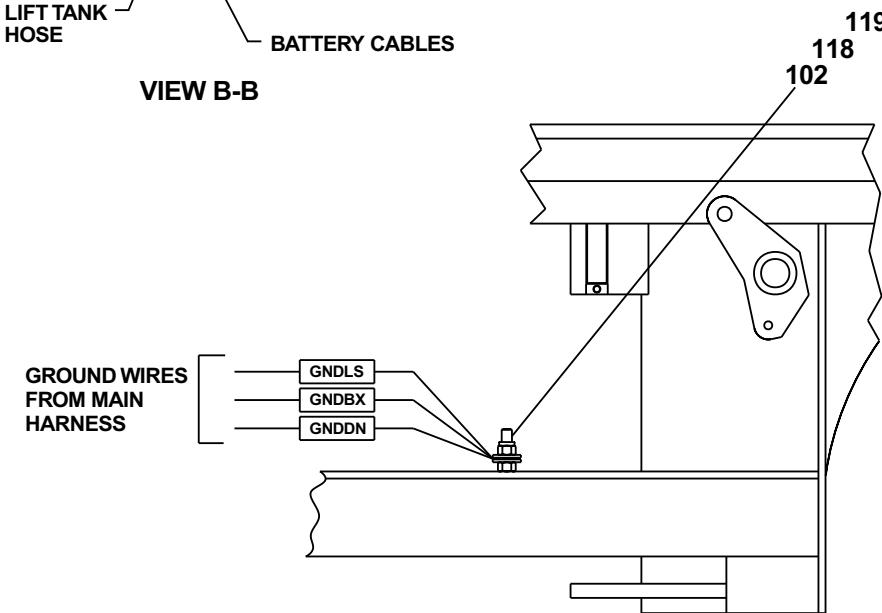
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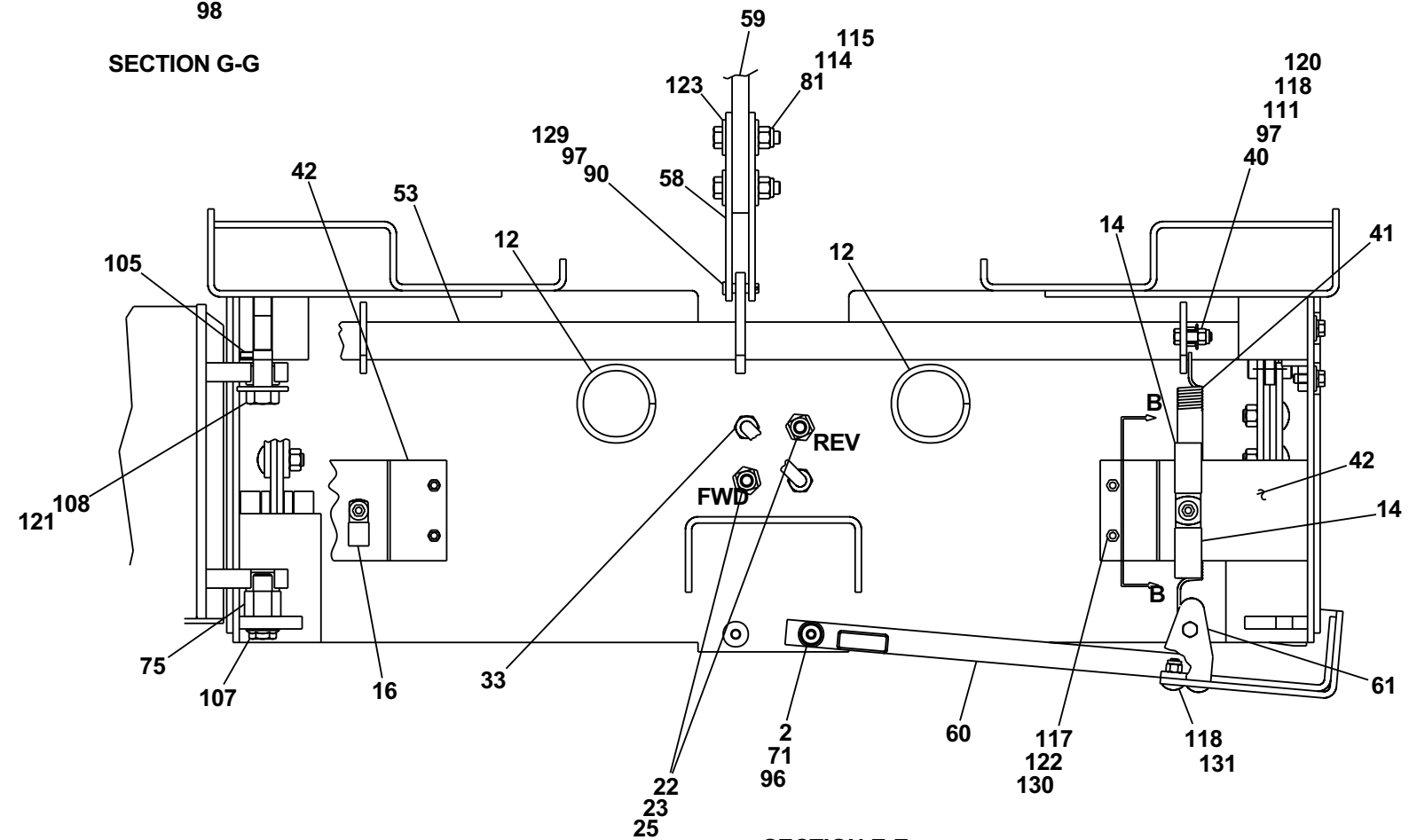
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VIEW B-B



SECTION F-F

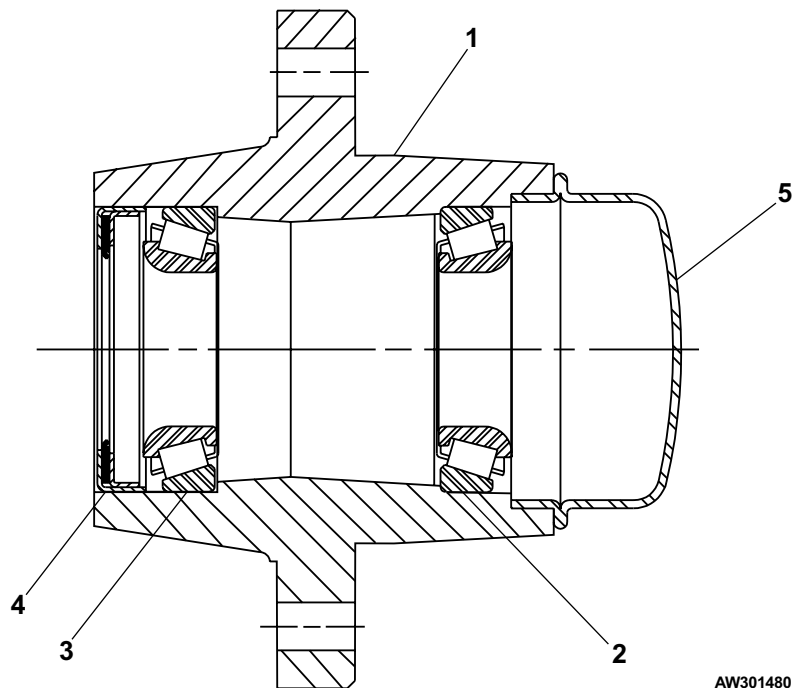


SECTION E-E

AW302334-3

Bearing hub

item	part no	qty	description
	301480-99	2	Bearing hub
1	301479-99	1	Hub
2	2540012	2	Bearing cup
3	034377	2	Bearing cone
4	034387	1	Grease seal
5	301507	1	Dust cap



AW301480

item	part no	qty	description
1	300437	2	Bearing flange
2	300554	1	1/2 inch hydraulic tube
3	301264	1	Spacer, stabilizer
4	301440	1	Return filter
	451896	1	Replacement filter element
5	302257	1	Tray latch torsion spring
6	302285-99	1	Channel, tray latch
7	302443	1	Control valve, main - (see page 2-2 for parts breakdown)
8	302449	1	Suction tube
9	302467	1	Relief/check valve - (see page 2-14 for parts breakdown)
10	302468	1	3/4 inch hydraulic tube
11	302469	1	3/8 inch hydraulic tube
12	302472	1	3/8 inch hydraulic tube
13	0360877	1	Hydraulic oil reservoir
14	5560097	6	Speed nut 5/16-18
15	302748-99	1	Hydraulic tray
16	302754-99	1	Pump mounting plate
17	302755-99	1	Relief valve mounting bracket
18	302762	1	3/8 inch hydraulic tube
19	302764	1	Return tube, filter/tank
20	302765-99	1	Cover, hydraulic oil reservoir
21	302775	1	3/8 inch hydraulic tube
22	5560033	8	Nut 3/8-16 self locking
23	302934	1	Platform control cable - (see page 3-12 for replacement parts)
24	302787	1	Wire harness, main - (see page 3-14 for parts breakdown)
25	302986-99	1	Lower control box - (see page 3-2 for parts breakdown)
26	302810	1	Gasket, 3/8 inch x 1 inch x 6 inch long
27	3080046	2	Electric motor - 24 volt DC (see page 3-9 for Leeson motor) (see page 3-10 for Ohio motor)
	3080081	2	Electric motor - 24 volt DC, EE rated - Ohio - (see page 3-11 for parts breakdown)
28	6020075-99	2	Hydraulic gear pump
	6091146	1	Seal repair kit, Parker pump
	8190112	1	Seal repair kit, Sundstrand pump
29	7190001	1	Gasket, weatherproof x 6 inches long
30	5560031	2	Nut 5/16-18 self locking
31	0240770	2	3/8 inch hydraulic hose - (standard machines)
	0240379	2	3/8 inch hydraulic hose - (EE rated machines only)
32	464004-99	1	Cylinder, cushion - (no service parts, order replacement cylinder)
33	0060315	2	1/2 inch hydraulic hose
34	0100271	1	1/4 inch hydraulic hose
35	0322684	2	1/4 inch hydraulic hose
36	5035318	2	Straight thread 90° elbow
37	5560004	2	Nut 1/4-20 self locking
38	575964	2	1/4 inch hydraulic hose
39	302463	1	1/2 inch suction hose x 16-1/2 inch long
40	302801	2	Adapter, beaded
41	466986	1	3/4 inch suction hose x 27 inch long
42	5035305	1	Straight thread 90° elbow
43	5035308	1	Straight thread 90° elbow
44	5035328	1	Straight thread 90° elbow
45	5037005	1	Swivel nut 90° elbow
			Parts list continued on next page

item	part no	qty	description
46	5065703	1	Straight thread adapter
47	5065707	4	Straight thread adapter
48	5065711	1	Straight thread adapter
49	5070005	1	Diagnostic nipple
50	5080042	1	Suction strainer
51	554316	1	Breather, 1/4 NPT 40 micron
52	986299	7	Washer 3/8 medium flat
53	987109	6	Washer 5/16 medium lock
54	25560277	1	Trimlock 12 inches long
55	5560082	1	Trim lock, 1/4 inch x 6 inches long
56	987099	2	Washer 1/4 medium lock
57	5093004	1	Clamp
58	5093008	1	Clamp
59	5093010	1	Clamp
60	5093028	2	Clamp
61	457406	3	Clamp
62	5550006	4	Clamp
63	986269	36	Washer 5/16 medium flat
64	302815	1	Jumper wire
65	302816	1	Jumper wire
66	3040269	6	Insulator boot
67	3040270	1	Insulator boot
68	584926	1	Battery wire
69	986019	6	Washer 1/4 medium flat
70	970029	2	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
71	970169	2	Capscrew 1/4-20 x 2 inch long hex head grade 5
72	970269	8	Capscrew 5/16-18 x 1-1/4 inch long hex head grade 5
73	970469	1	Capscrew 3/8-16 x 1 inch long hex head grade 5
74	970479	3	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
75	5560645	1	Capscrew 3/8-16 x 5-1/2 inch long hex head grade 5
76	5560350	6	Carriage bolt 3/8-16 x 1 inch long
77	972469	4	Capscrew 3/8-16 x 1 inch long socket flat head
78	5569935	2	Capscrew 3/8-16 x 3/8 inch long button head
79	5569930	3	Capscrew 3/8-16 x 3/4 inch long button head
80	0360747	1	Battery cable, red
81	0360746	1	Battery cable, black
82	302791	1	Cable, quick disconnect
83	300648	4	Socket contact - (EE rated machine only)

F

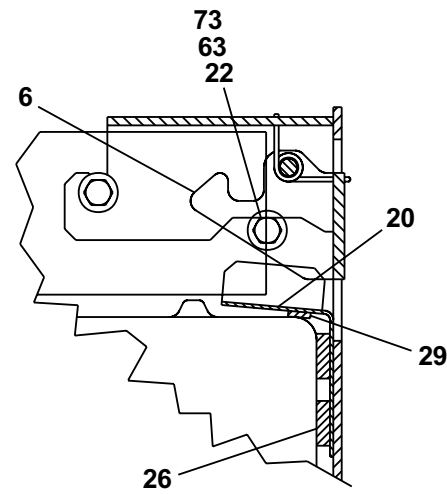
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D

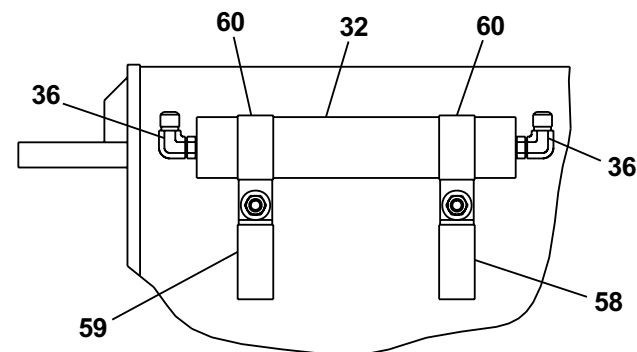
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B

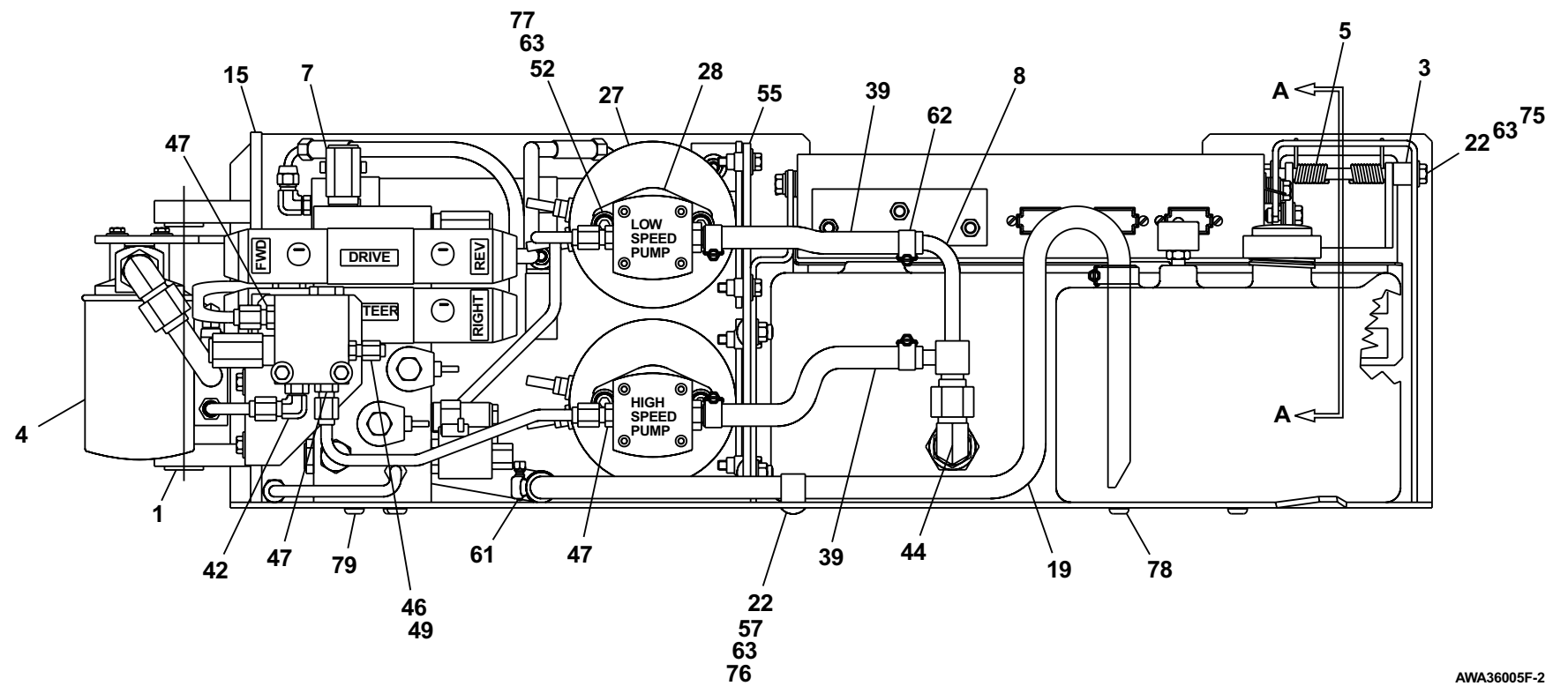
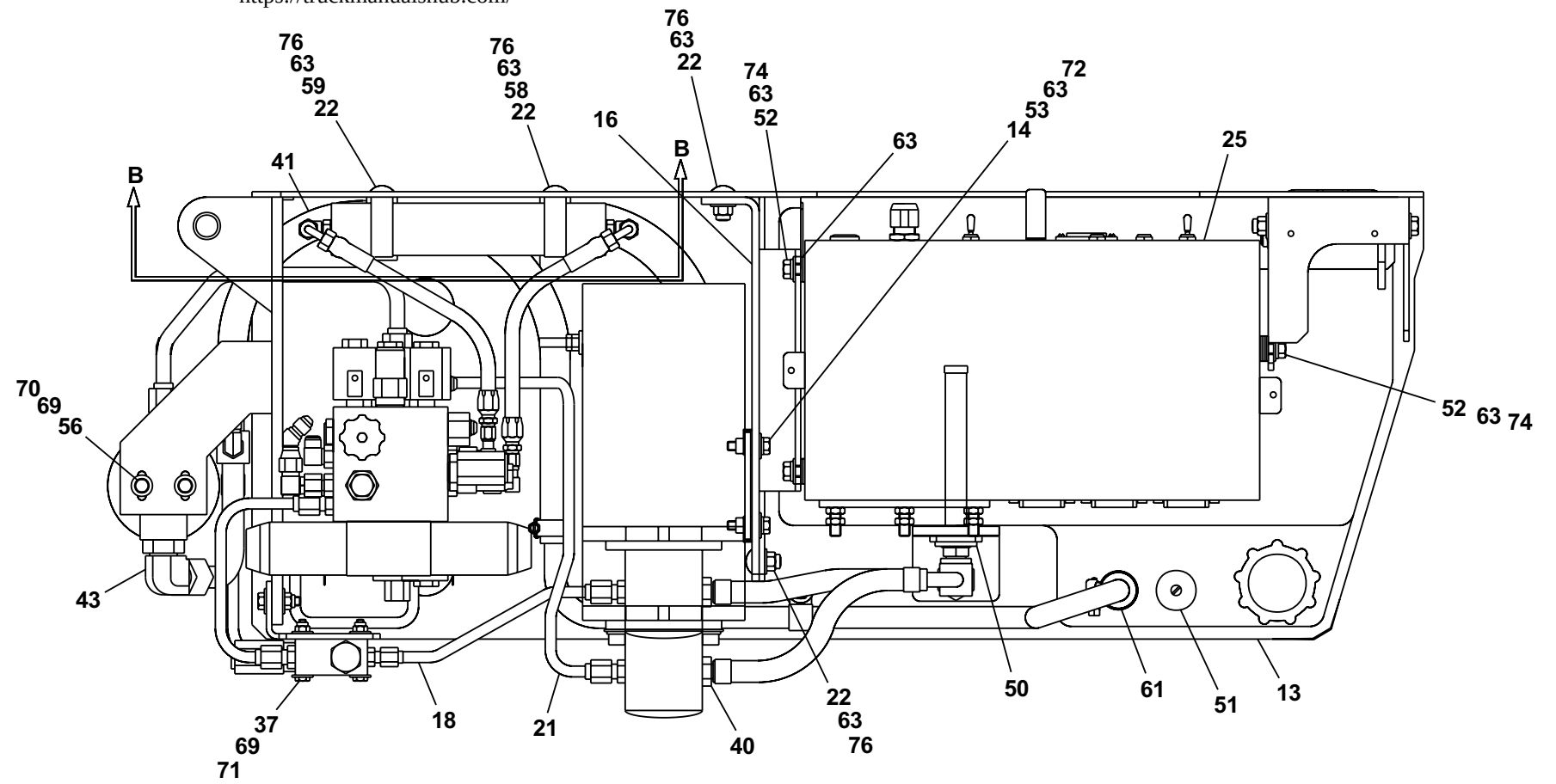
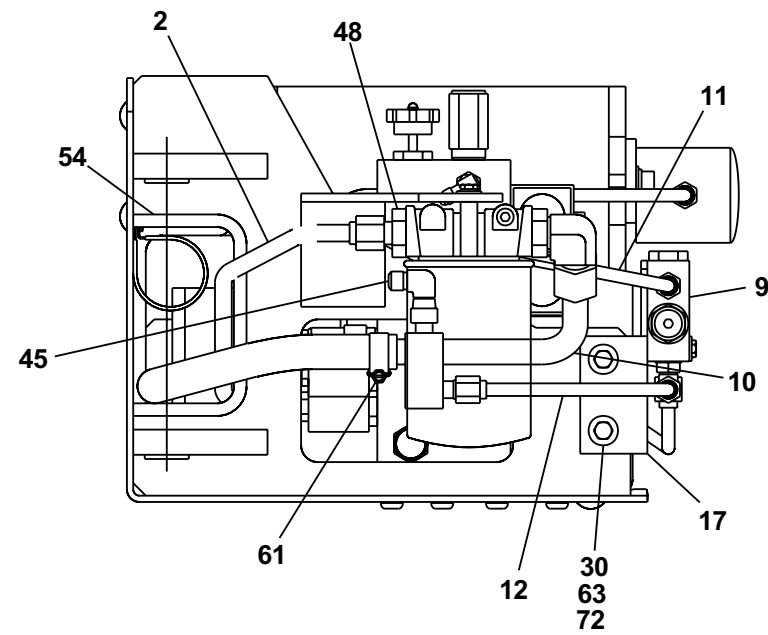
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SECTION A-A



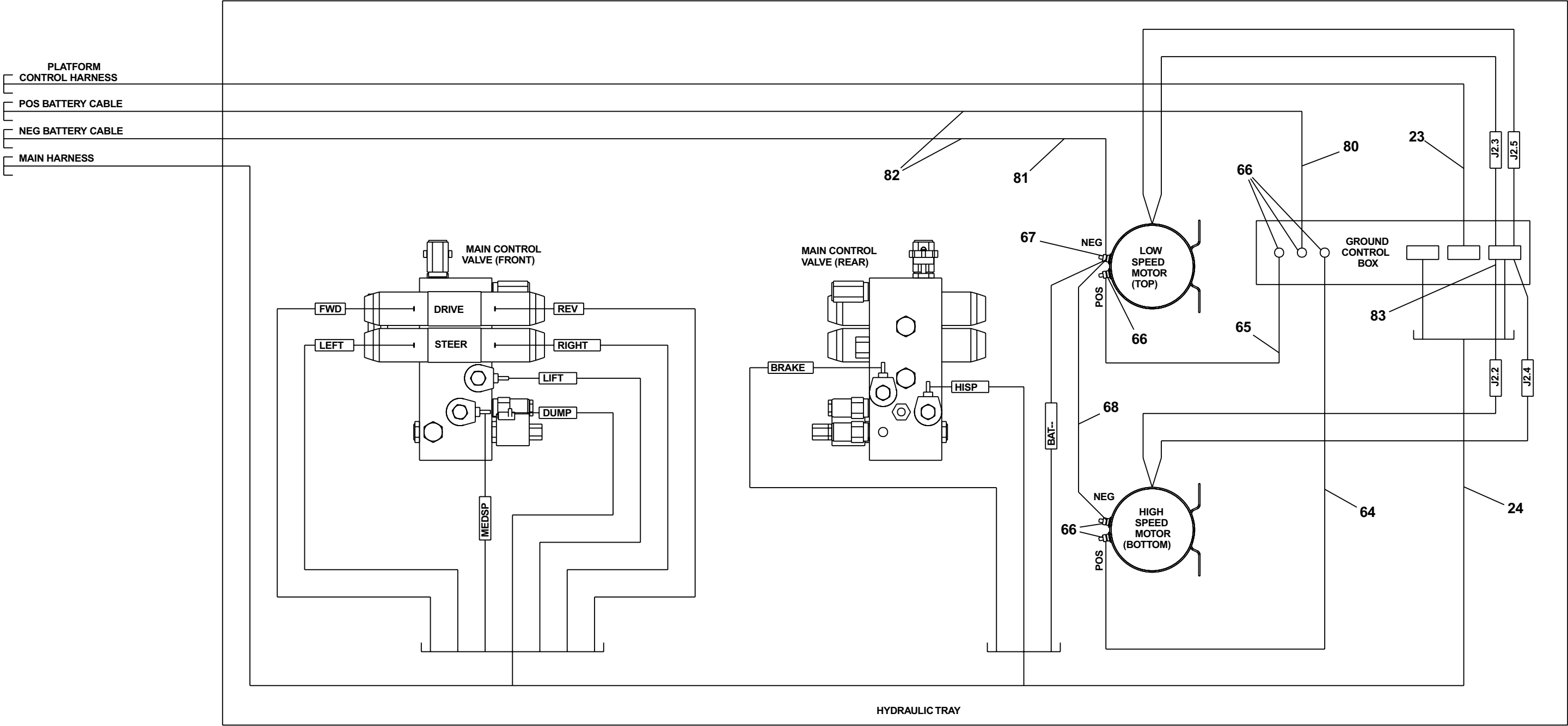
VIEW B-B



AWA36005F-2



F
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AWA36005F-4

F

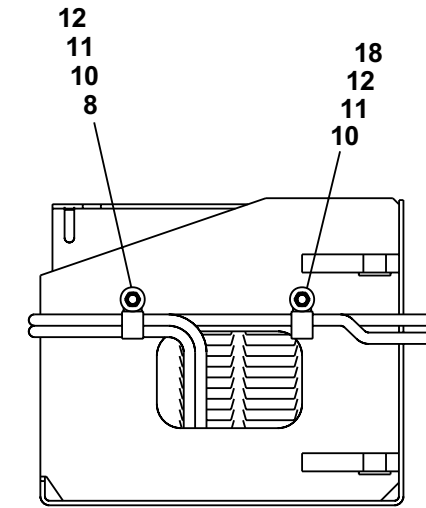
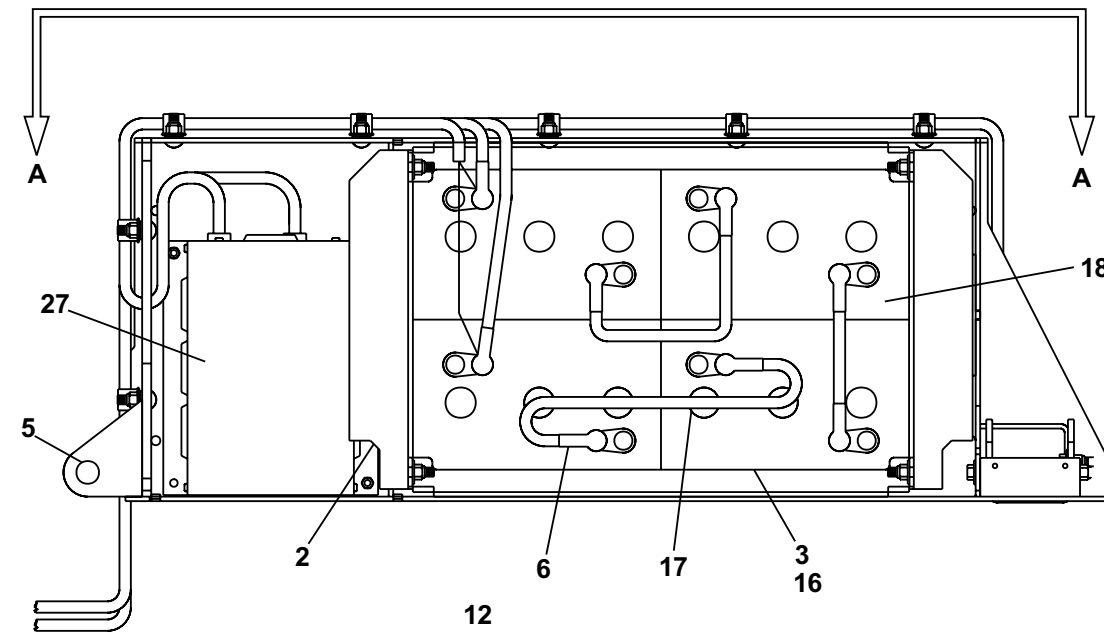
E

D

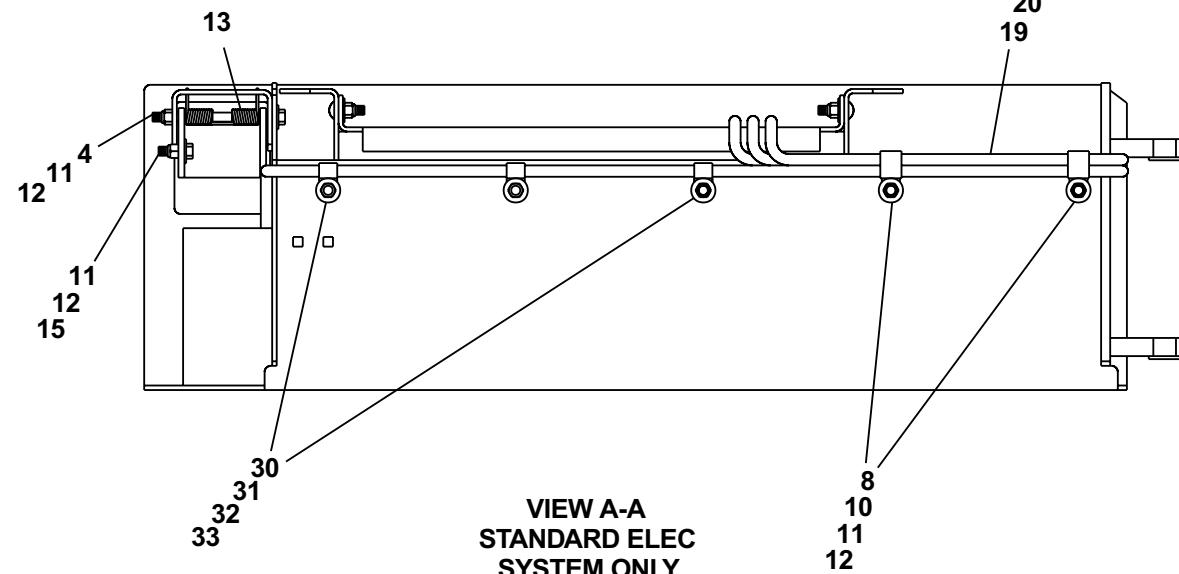
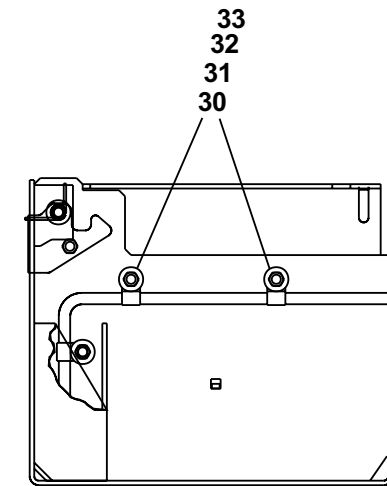
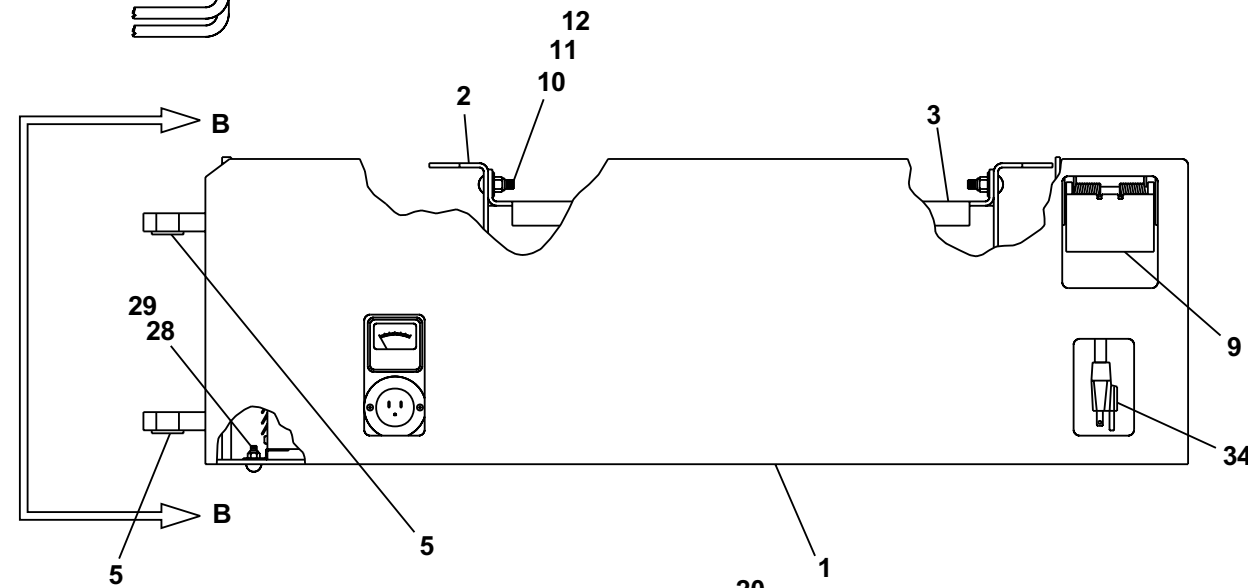
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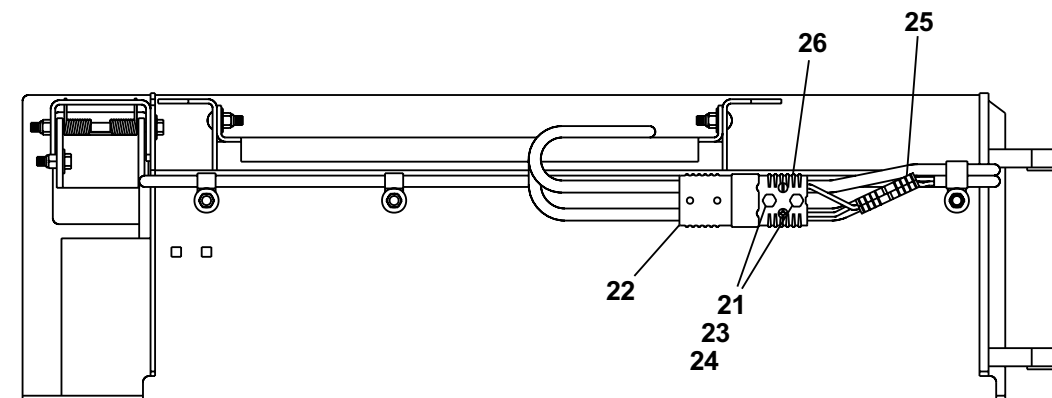
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VIEW B-B



VIEW A-A
STANDARD ELEC
SYSTEM ONLY



VIEW A-A
QUICK DISCONNECT ELEC
SYSTEM OPTION ONLY

AW302456

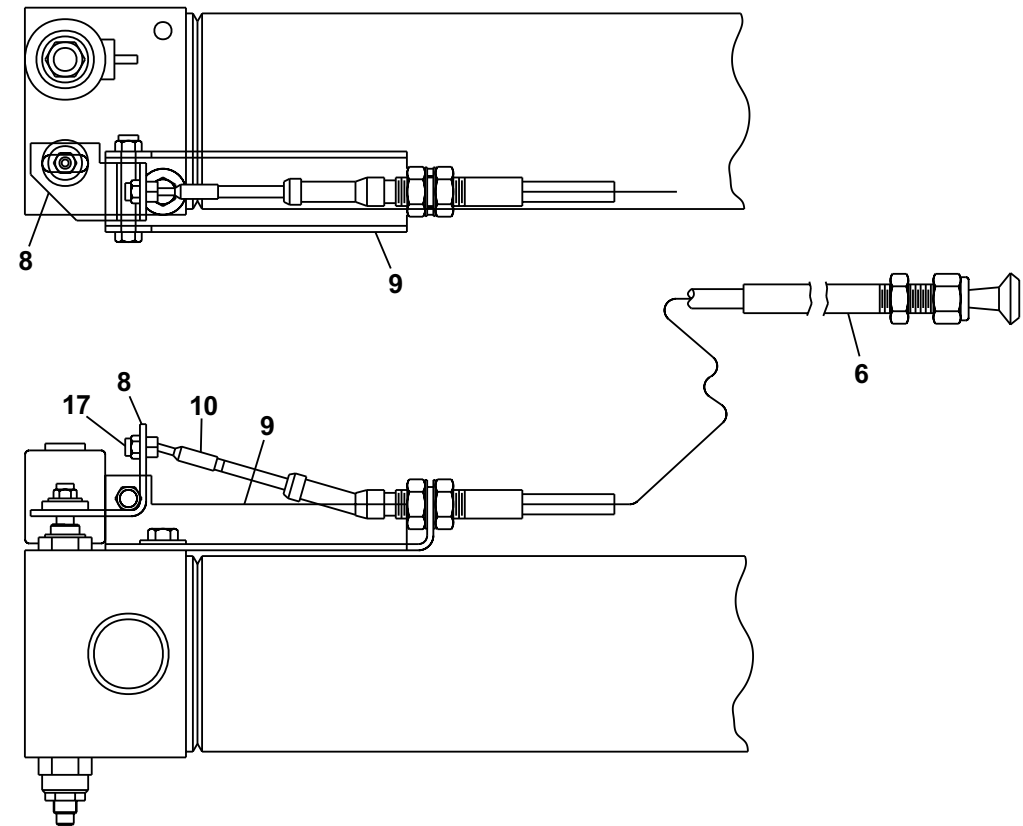
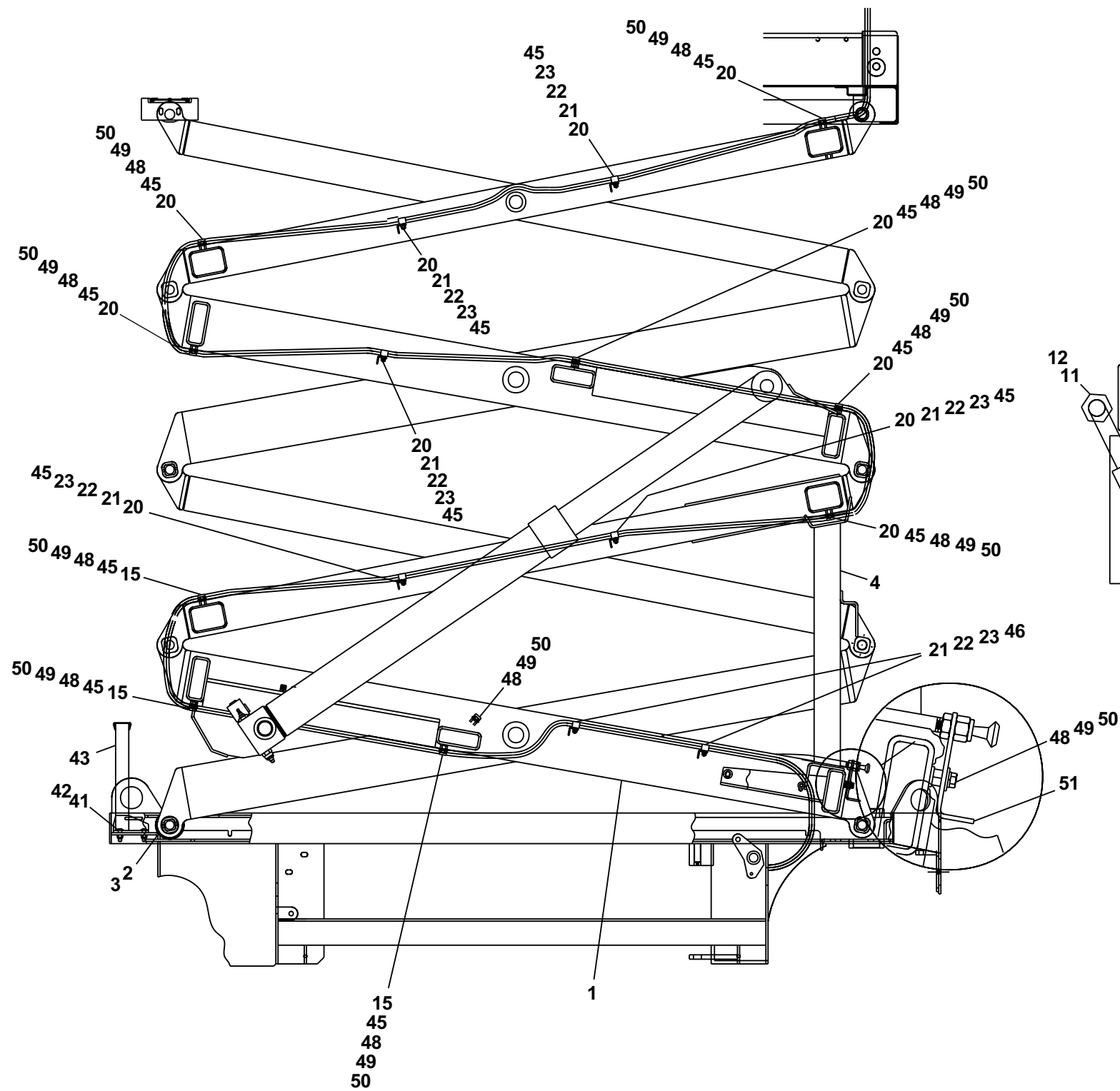
Battery tray

item	part no	qty	description
1	302314-99	1	Battery tray
2	302458-99	1	Removable tray
3	302457-99	2	Battery hold down angle
4	970629	1	Capscrew 3/8-16 x 5 inch long hex head grade 5
5	300437	2	Bearing flange
6	3040269	8	Insulator boot
7	5093006	1	Clamp
8	5093008	3	Clamp
9	302285-99	1	Channel, tray latch
10	5560350	7	Carriage bolt 3/8-16 x 1 inch long
11	986299	9	Washer 3/8 medium flat
12	5560033	9	Nut 3/8-16 self locking
13	302257	1	Tray latch torsion spring
14	5090034	1	Hose guard x 6 inches long
15	970469	1	Capscrew 3/8-16 x 1 inch long hex head grade 5
16	302547	2	Angle, plastic battery insulator
17	584926	3	Battery wire
18	3050027	4	Battery, 6 volt DC - 240 amp hour
19	302790	1	Jumper wire
20	302807	1	Jumper wire
21	5560004	2	Nut 1/4-20 self locking
22	0360748	1	Cable, quick disconnect
23	5569886	2	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
24	986019	6	Washer 1/4 medium flat
25	583726	2	Plug, connector 50 amp red 24 volt
26	302791	1	Cable, quick disconnect
27	300909	1	Battery charger, standard - Lester
	300755	1	Battery charger, world - Lester
28	972569	2	Carriage bolt 1/4-20 x 3/4 inch long
29	5560004	2	Nut 1/4-20 self locking
30	5093000	6	Clamp
31	5560350	6	Carriage bolt 3/8-16 x 1 inch long
32	986299	6	Washer 3/8 medium flat
33	5560033	6	Nut 3/8-16 self locking
34	301496	1	Ground plug adapter - (world charger only)

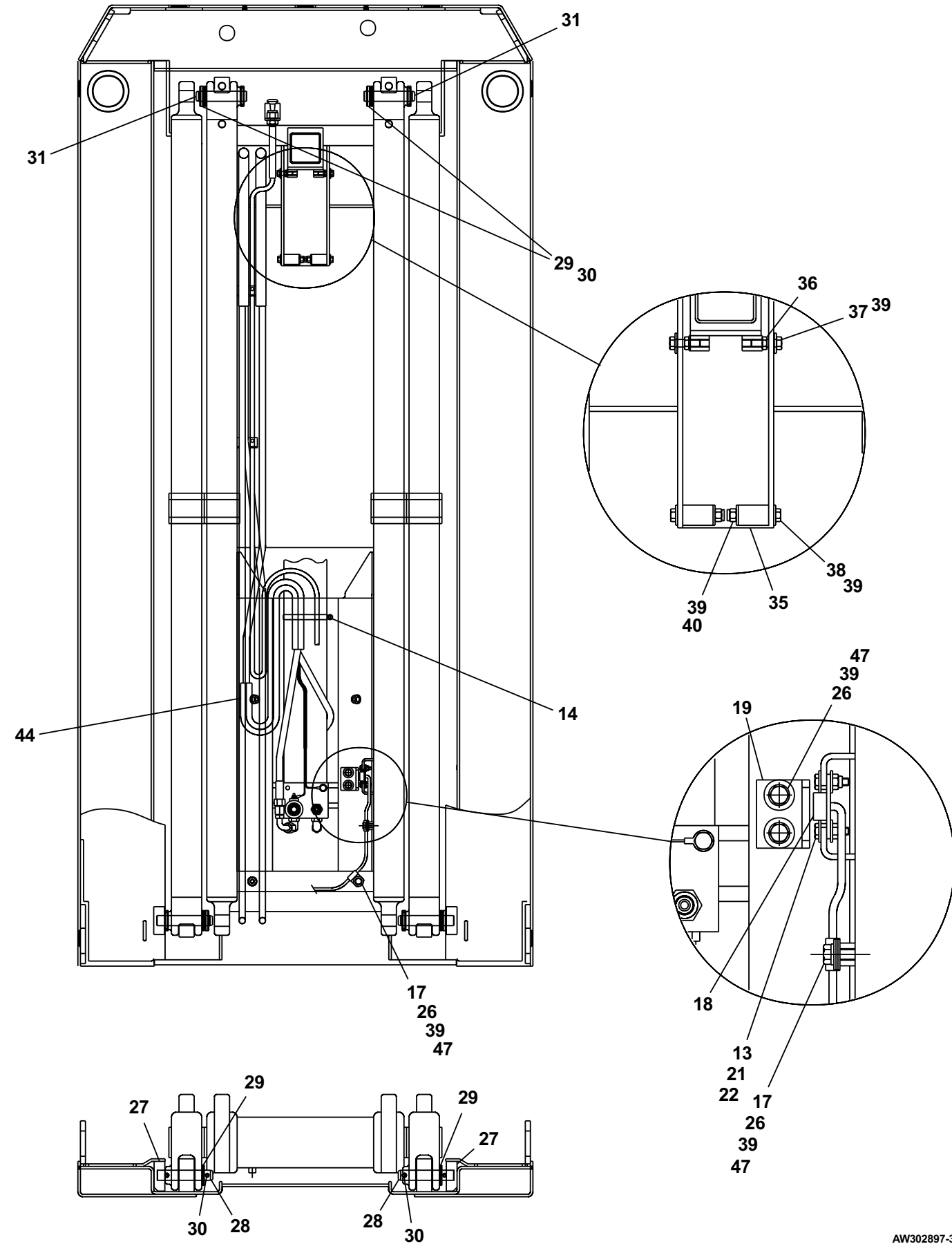
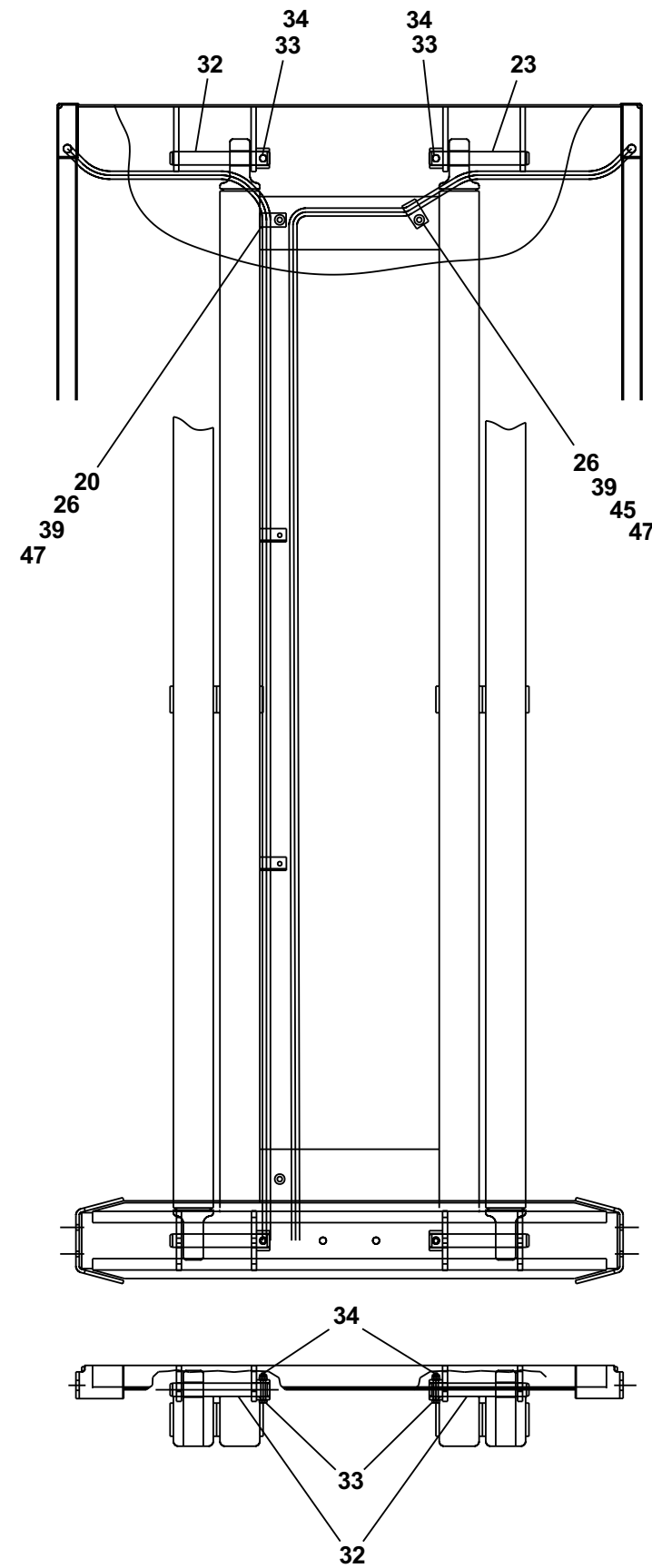
<https://truckmanualshub.com/>
Scissor arms mounting

item	part no	qty	description
1	302898-89	1	Scissor arm stack - (see page 1-20 for parts breakdown)
2	300519	2	Roller, lower arm set
3	561196	2	Bearing
4	302539-99	1	Safety prop
5	300657	1	Cartridge valve, manual pull
6	302730	1	Cable, manual lowering
7	300719	1	Lift cylinder cartridge valve - (see page 2-11 for parts breakdown)
8	302872-89	1	Pivot arm
9	302870-89	1	Bracket, emergency bleed down
10	2650001	1	Swivel, in-line
11	5063906	1	Fitting nut
12	5064003	1	Tube end reducer
13	970049	2	Capscrew 1/4-20 x 1 inch long hex head grade 5
14	5550070	1	Clamp
15	5093002	3	Clamp
16	6010833	1	Valve cartridge, adjustable flow control
17	5093018	2	Clamp
18	302802	1	Proximity switch - (see page 3-13 for replacement parts)
19	0360771-99	1	Angle, switch
20	5093001	12	Clamp
21	986019	12	Washer 1/4 medium flat
22	5560004	9	Nut 1/4-20 self locking
23	970029	7	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
24	5569942	1	Roll pin 5/16 inch diameter x 1/2 inch long
25	970099	1	Capscrew 1/4-20 x 5/8 inch long hex head grade 5
26	5560683	4	Capscrew 3/8-16 x 5/8 inch long hex head grade 5
27	302516	2	Slider block, lower arms
28	302517	2	Pin, lower arm slider
29	986619	1	Machine bushing 1-1/2 inch OD x 1 inch ID x 14 gauge thick
30	5560637	8	Roll pin 3/8 inch diameter x 1-3/4 inch long
31	570284	2	Pin
32	571364	4	Pin
33	970299	4	Capscrew 5/16-18 x 2 inch long hex head grade 5
34	5560031	4	Nut 5/16-18 self locking
35	302486	2	Roller, sliding end rail
36	5560611	2	Nut 3/8-16 hex jam
37	970419	2	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
38	970519	2	Capscrew 3/8-16 x 2-1/4 inch long hex head grade 5
39	986299	10	Washer 3/8 medium flat
40	5560033	2	Nut 3/8-16 self locking
41	5569908	3	Carriage bolt 1/2-13 x 1-1/4 inch long
42	5560033	3	Nut 3/8-16 self locking
43	302536-99	1	Step
44	5090034	1	Hose guard x 36 inches long
45	5093000	16	Clamp
46	5093009	3	Clamp
47	987119	4	Washer 3/8 medium lock
48	986299	4	Washer 3/8 medium flat
49	970019	12	Capscrew 1/4-20 x 5/8 inch long hex head grade 5
50	986019	12	Washer 1/4 medium flat
51	300683-99	1	Bracket

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AW302897-2



AW302897-3

item	part no	qty	description
	302898-89	1	Scissor arm stack
1	0360120	1	1st inner arm
2	302817	1	2nd inner arm
3	0360737	1	3rd inner arm
4	300456	1	4th inner arm
5	302287	4	Basic arm 6 x 3
6	300451	4	Basic arm 4 x 3
7	302317	2	Pin
8	302240-89	1	Cylinder, lift (see page 2-8 for GBI cylinder) (see page 2-9 for Texas cylinder)
9	561126	14	Bearing
10	2500016	8	Bearing
11	2500035	16	Bearing
12	561196	16	Bearing
13	570284	12	Pin
14	302318	4	Pin
15	302324	8	Machine bushing
16	302323	8	Retaining ring
17	300905	4	Pin
18	5560252	8	Machine bushing 2-1/4 inch OD x 1-1/4 inch ID x 14 gauge thick
19	5560637	24	Roll pin 3/8 inch diameter x 1-3/4 inch long
20	986614	8	Washer 1 inch medium flat
21	300541	8	Snap ring
22	970549	2	Capscrew 3/8-16 x 3 inch long hex head grade 5
23	5560033	2	Nut 3/8-16 self locking
24	5036606	2	Swivel nut 90° tube elbow
25	5063906	1	Fitting nut
26	5064003	1	Tube end reducer
27	300657	1	Cartridge valve, manual pull
28	5035306	2	Straight thread 90° elbow
29	302870-89	1	Bracket, emergency bleed down
30	302872-89	1	Pivot arm
31	300675	1	Plastic washer
32	986019	1	Washer 1/4 medium flat
33	5560004	1	Nut 1/4-20 self locking
34	986299	1	Washer 3/8 medium flat
35	970449	1	Capscrew 3/8-16 x 3/4 inch long hex head grade 5
36	5569943	1	Capscrew 5/16-18 x 2-1/8 inch long hex head grade 5
37	5560031	1	Nut 5/16-18 self locking
38	5063704	1	Cap

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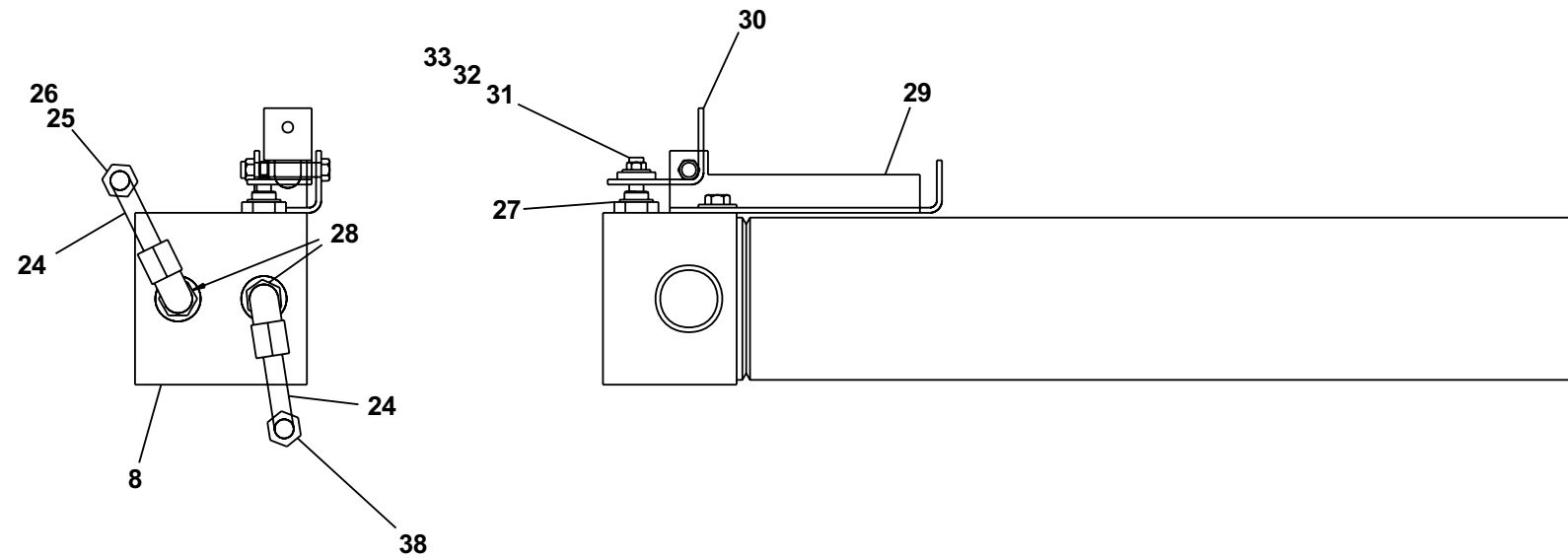
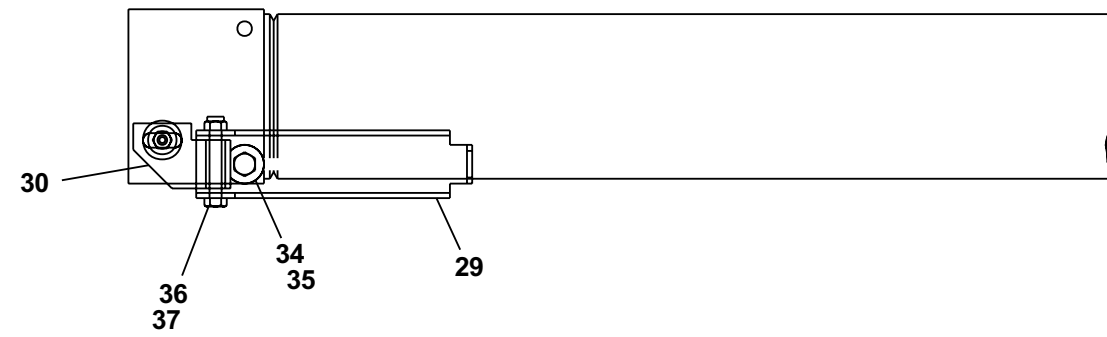
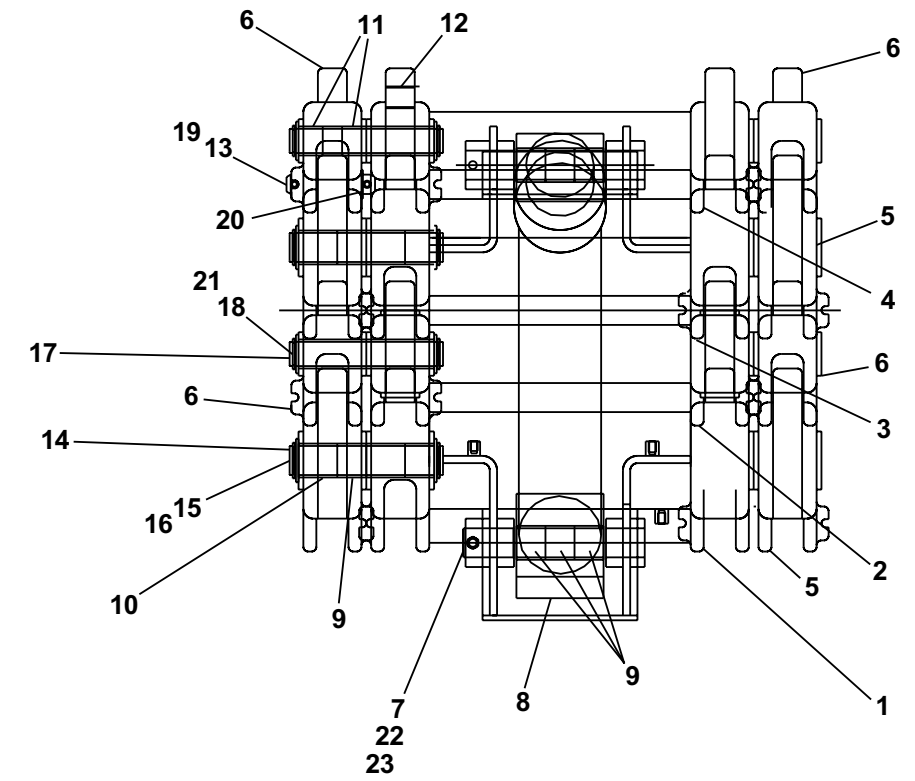
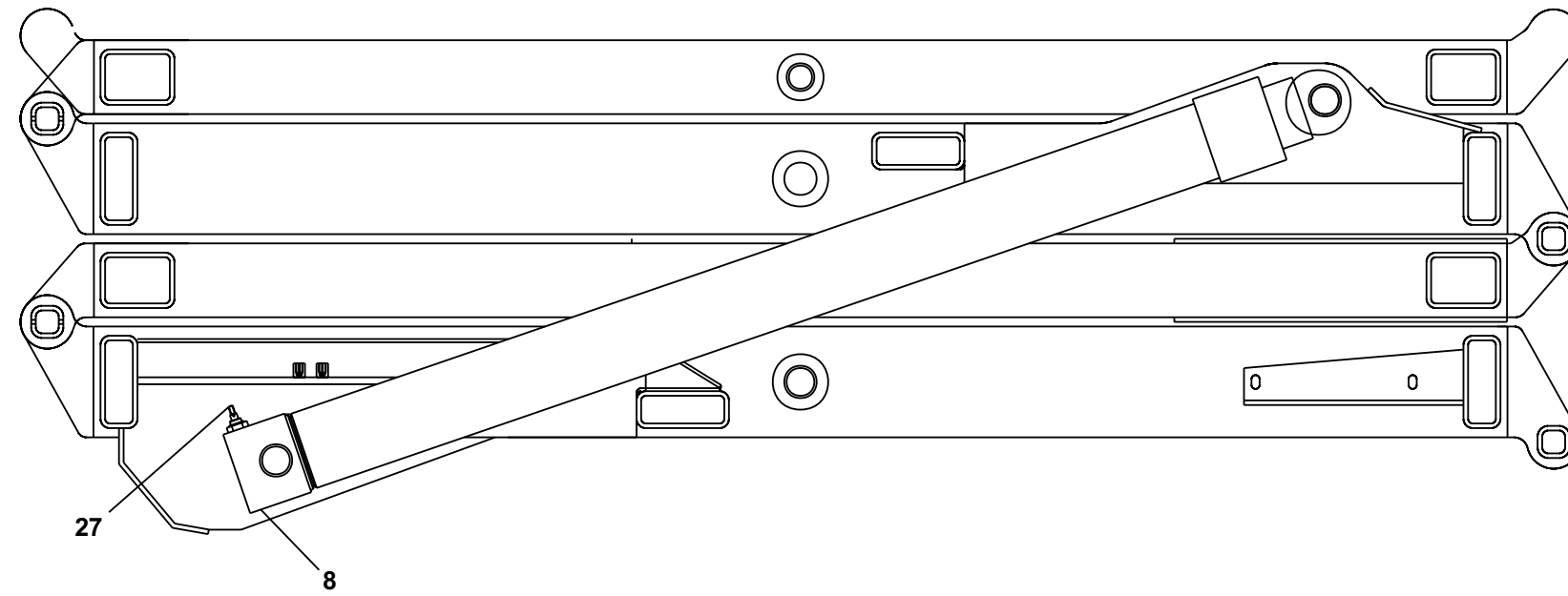
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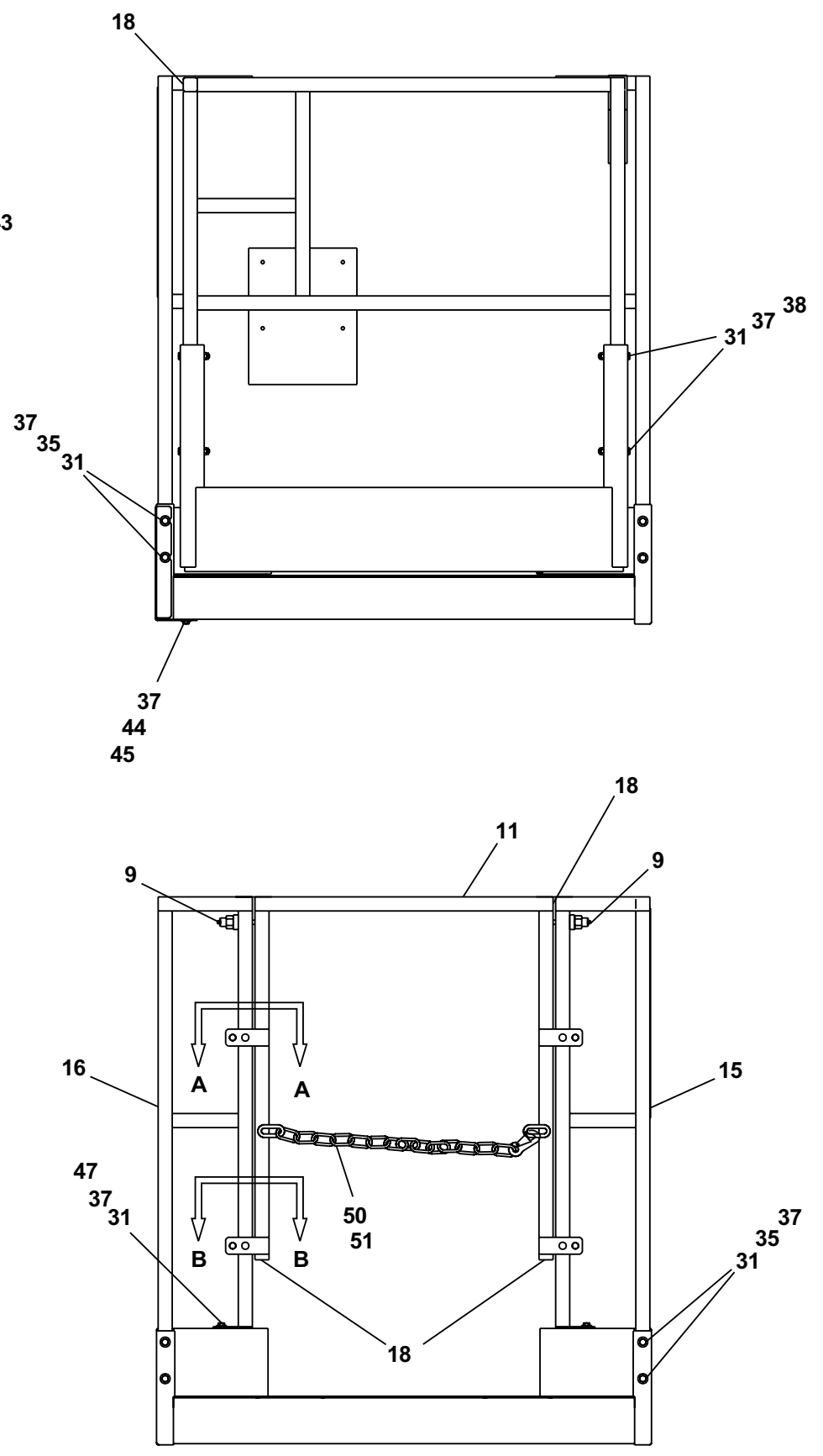
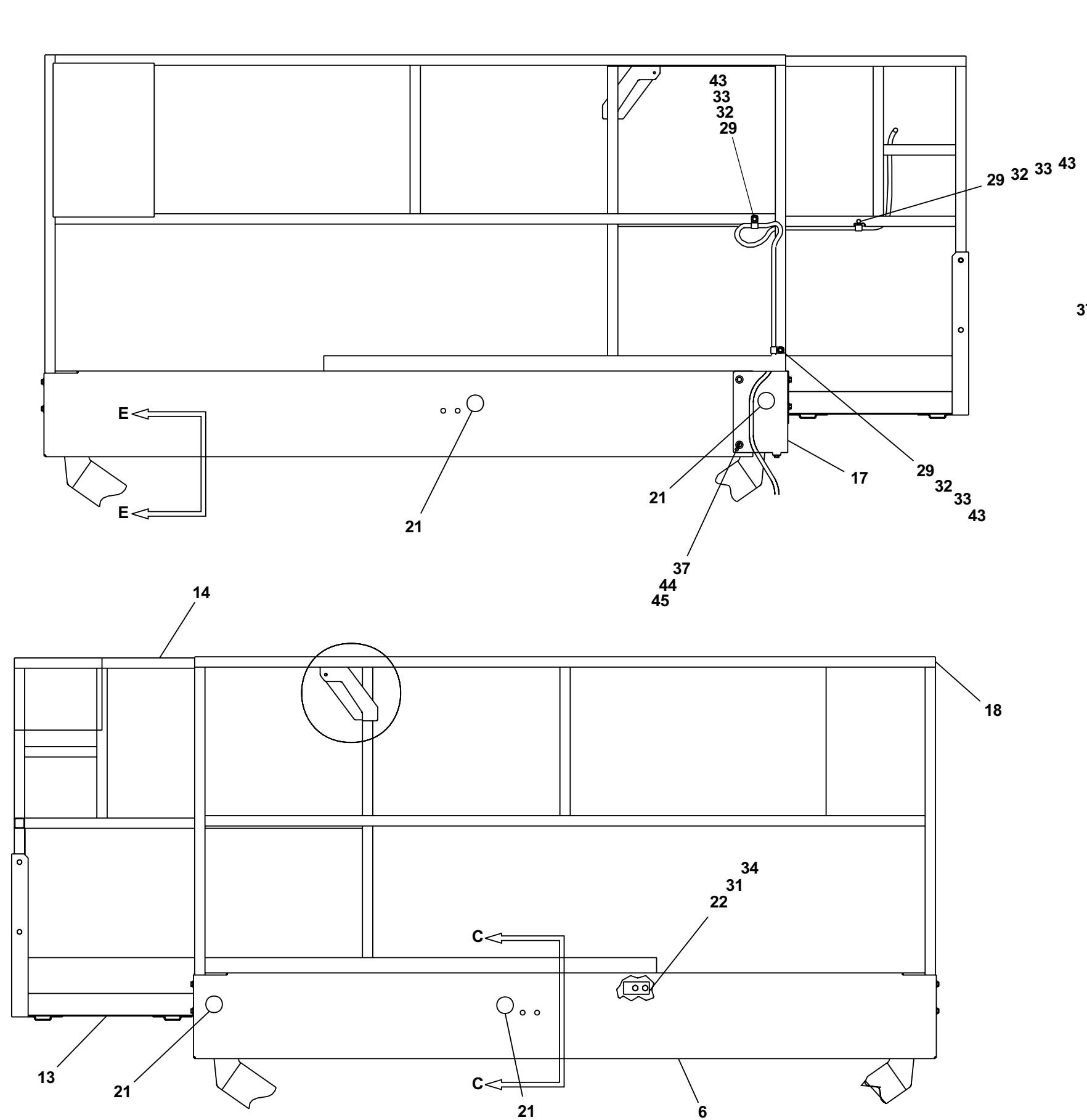
TITLE Scissor arm stack

Snorkel model S2545

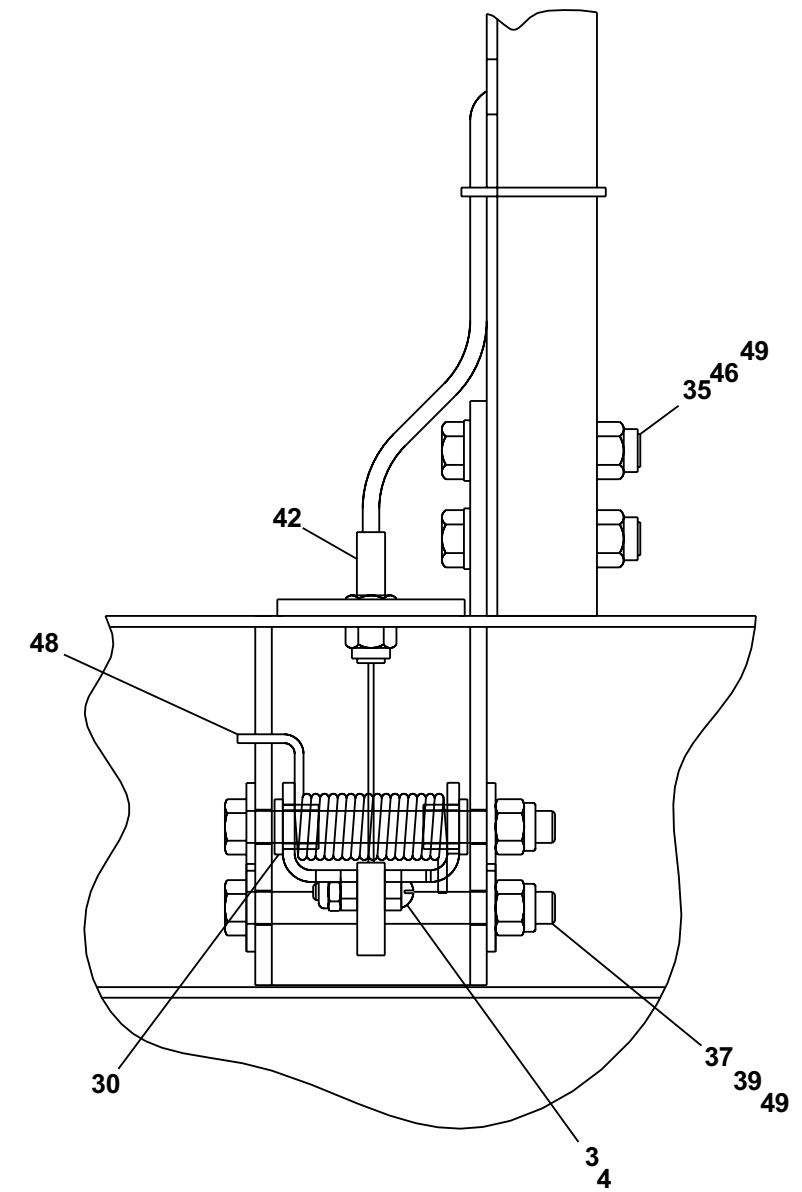
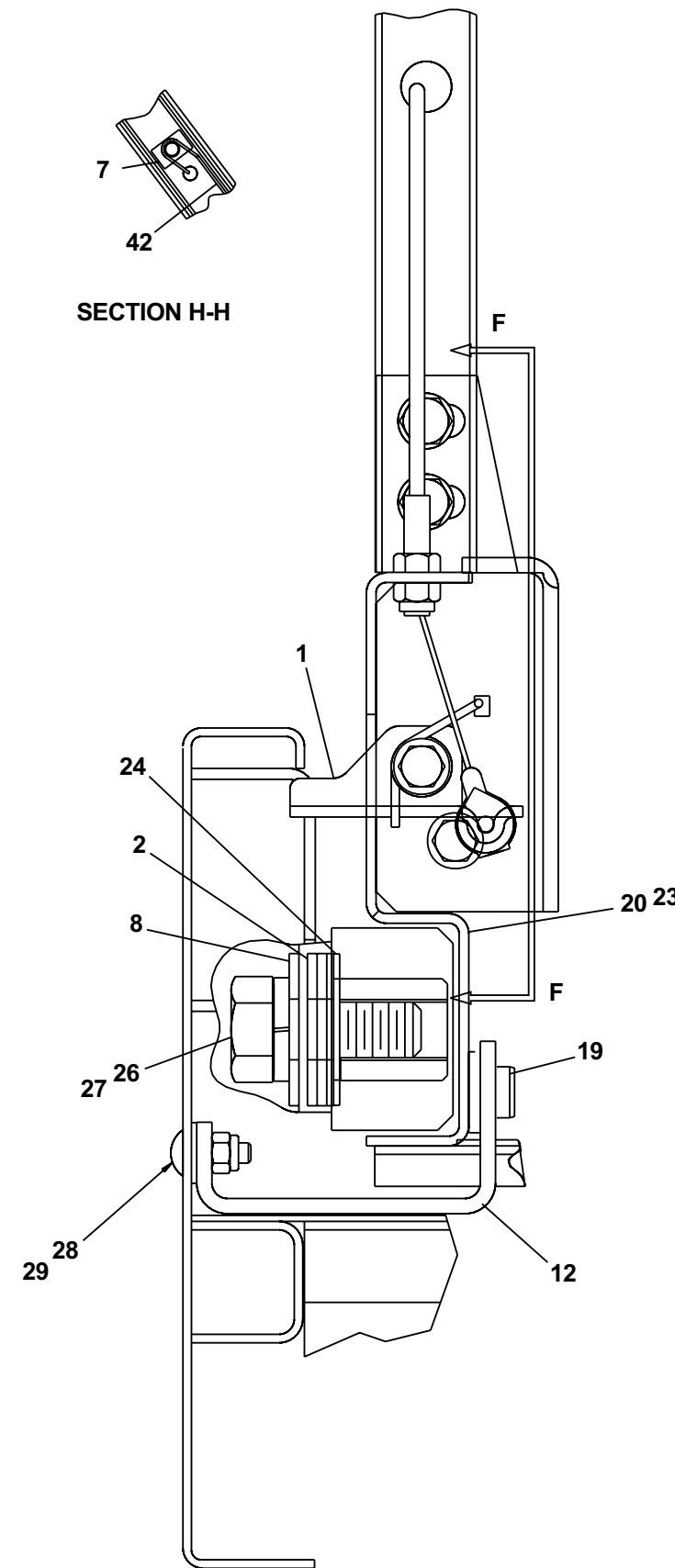
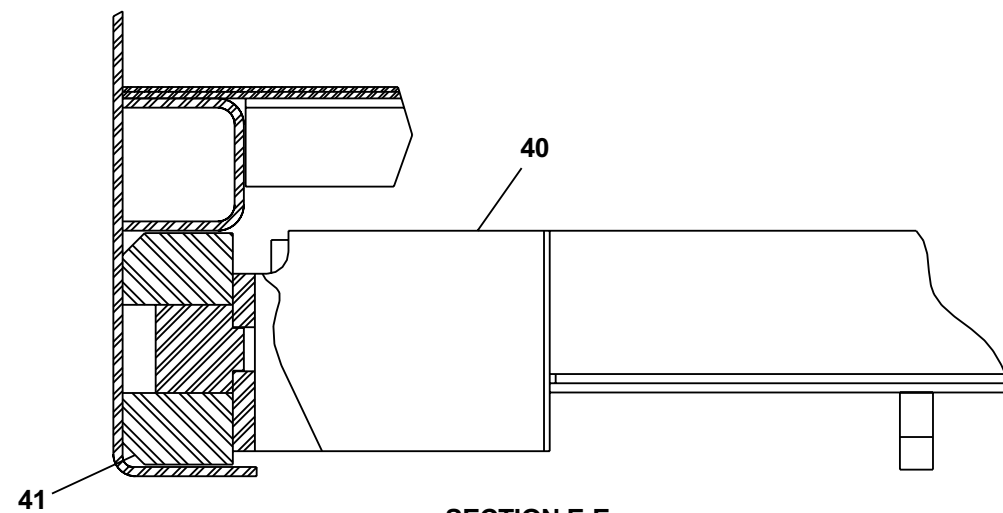
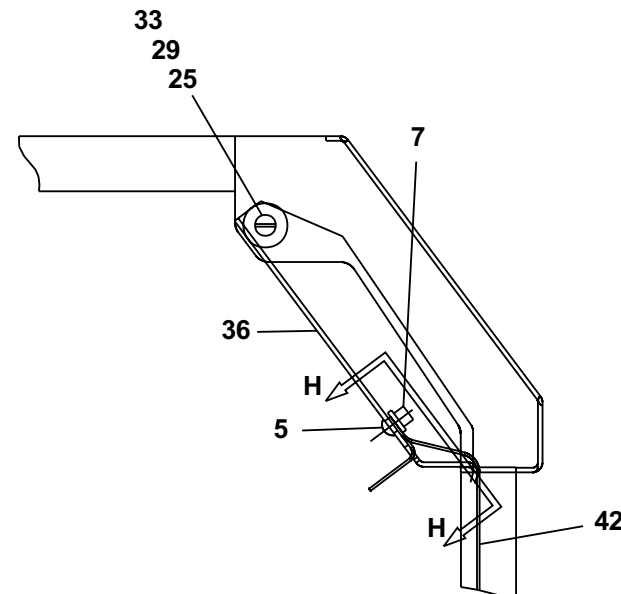
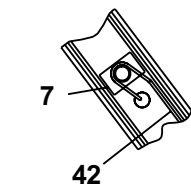
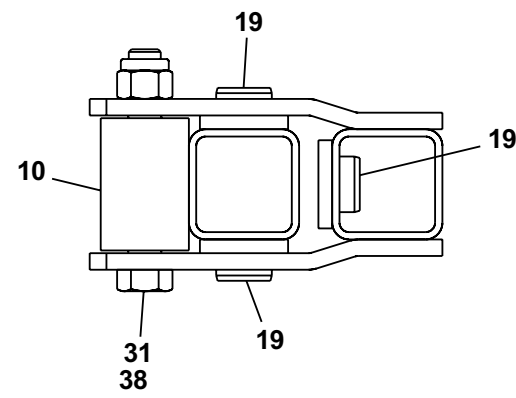
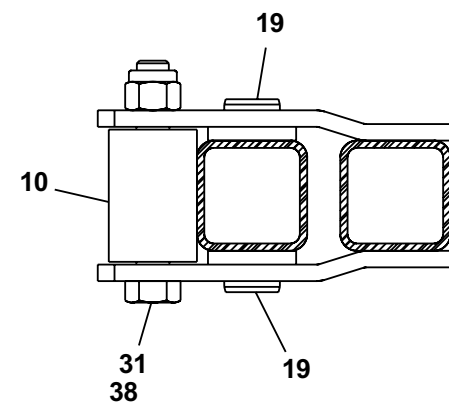


item	part no	qty	description
1	302920-99	1	Detent paddle
2	986309	12	Washer hard flat 1-7/8 inch OD x 3/4 inch ID
3	5560034	1	Nut #10-24 self locking
4	5569845	1	Machine screw #10-24 x 1 inch long hex head grade 5
5	5561555	1	Capscrew 5/16-18 x 1/2 inch long button head
6	302925-99	1	Platform
7	5560278	1	Propeller nut 5/16-18
8	592144	4	Washer special 3/4 flat zinc plated
9	302480	2	Detent pin
10	302486	4	Roller, sliding end rail
11	302912-99	1	Folding rail gate
12	300986-99	2	Bracket, guide
13	302739-99	1	Rollout extension deck
14	302804-99	1	Rollout railing, fixed
15	302713-99	1	Side rail, right hand
16	302712-99	1	Side rail, left hand
17	302929-99	1	Cover, platform cable
18	468886	12	End cap, 1-1/2 inch square plastic
19	483544	12	Wear pad
20	583326	4	Roller, extension deck
21	583406	4	Plug, plastic 2 inch diameter
22	302744-99	2	Angle, rollout stop
23	592114	4	Slider mount
24	5569852	1	Machine bushing 2 inch OD x 1-1/4 inch ID x 14 gauge thick
25	5569937	1	Capscrew 1/4-20 x 2 inch long round head
26	971469	4	Capscrew 3/4-16 x 1-3/4 inch long hex head grade 5
27	987179	4	Washer 3/4 medium lock
28	972589	4	Carriage bolt 1/4-20 x 1 inch long
29	5560004	8	Nut 1/4-20 self locking
30	2572009	2	Bushing
31	984109	20	Nut 3/8-16 hex
32	5569886	3	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
33	986019	5	Washer 1/4 medium flat
34	970499	4	Capscrew 3/8-16 x 1-3/4 inch long hex head grade 5
35	970509	10	Capscrew 3/8-16 x 2 inch long hex head grade 5
36	302717-99	1	Detent trigger
37	986269	19	Washer 5/16 medium flat
38	5560247	8	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5
39	5560643	2	Capscrew 3/8-16 x 3-1/4 inch long hex head grade 5
40	302671-99	1	Slider
41	302474	2	Slide pad
42	302722	1	Cable, rollout detent
43	5093002	3	Clamp
44	970249	3	Capscrew 5/16-18 x 7/8 inch long hex head grade 5
45	984089	3	Nut 5/16-18 hex
46	986299	2	Washer 3/8 medium flat
47	970426	2	Capscrew 3/8-16 x 7/8 inch long hex head grade 5
48	302723	1	Torsion spring
49	5560033	4	Nut 3/8-16 self locking

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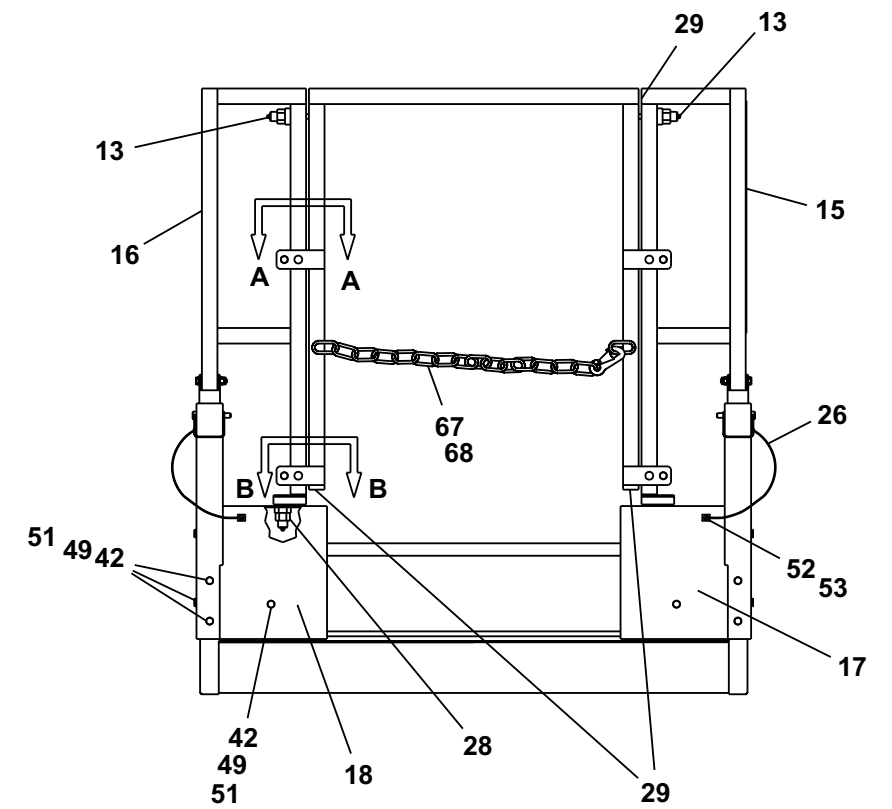
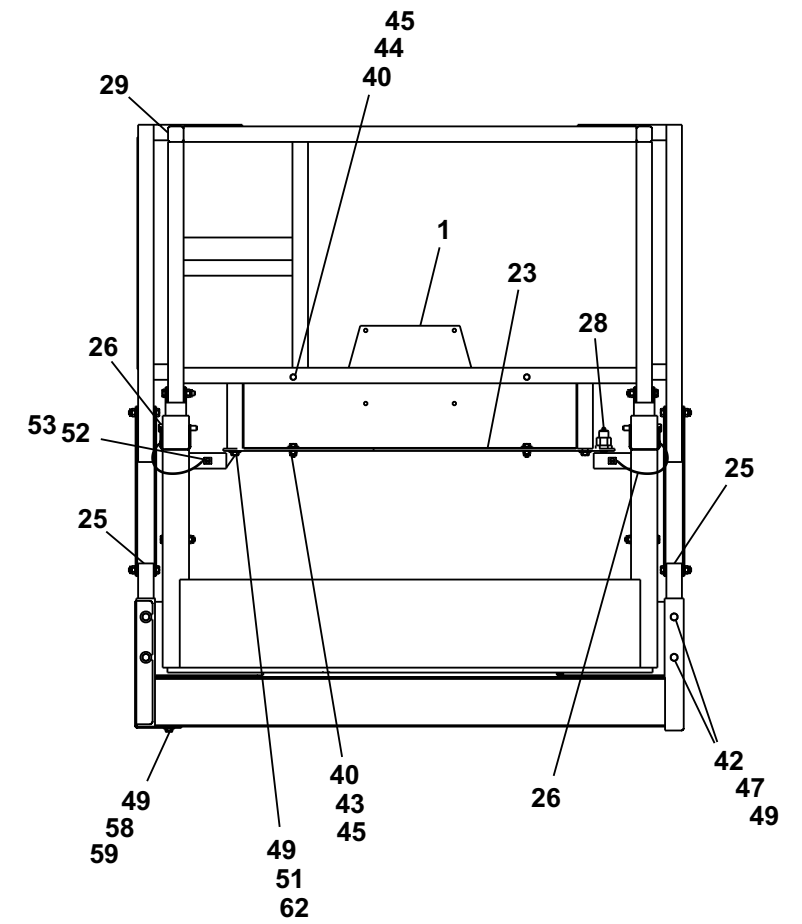


Platform, folding rails

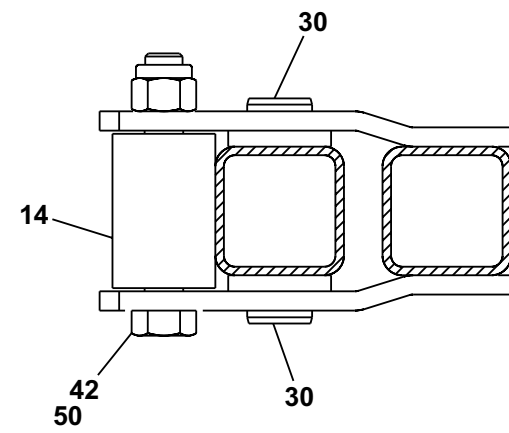
item	part no	qty	description
1	302508-99	1	Decal mounting plate
2	5560278	1	Propeller nut 5/16-18
3	986309	12	Washer hard flat 1-7/8 inch OD x 3/4 inch ID
4	970469	2	Capscrew 3/8-16 x 1 inch long hex head grade 5
5	302723	1	Torsion spring
6	5561555	1	Capscrew 5/16-18 x 1/2 inch long button head
7	302925-99	1	Platform
8	302717-99	1	Detent trigger
9	302722	1	Cable, rollout detent
10	302915-99	1	Rollout extension deck, folding rails
11	302907-99	4	Link, rollout folding rail
12	302906-99	4	Link, platform folding rail
13	302480	2	Detent pin
14	302486	4	Roller, sliding end rail
15	302902-99	1	Side rail, folding right hand
16	302901-99	1	Side rail, folding left hand
17	302909-99	1	Side rail pivot bracket, right hand
18	302908-99	1	Side rail pivot bracket, left hand
19	302912-99	1	Folding rail gate
20	0360825	1	Folding rail rollout
21	970169	1	Capscrew 1/4-20 x 2 inch long hex head grade 5
22	302506-99	1	Railing pivot bracket
23	0360822-99	1	Rollout detent bracket
24	300986-99	2	Bracket, guide
25	302518-99	2	Pivot lug, retract rail
26	302544	4	Snap pin with lanyard
27	302929-99	1	Cover, platform cable
28	455014-99	3	Detent pin
29	468886	19	End cap, 1-1/2 inch square plastic
30	483544	12	Wear pad
31	583326	4	Roller, extension deck
32	583406	4	Plug, plastic 2 inch diameter
33	302744-99	2	Angle, rollout stop
34	592114	4	Slider mount
35	5569852	1	Machine bushing 2 inch OD x 1-1/4 inch ID x 14 gauge thick
36	974739	2	Machine screw #10-24 x 1-1/2 inch long round head
37	971469	4	Capscrew 3/4-16 x 1-3/4 inch long hex head grade 5
38	987179	4	Washer 3/4 medium lock
39	972589	4	Carriage bolt 1/4-20 x 1 inch long
40	5560004	11	Nut 1/4-20 self locking
41	302703-99	1	Retract rail pivot bar
42	5560033	35	Nut 3/8-16 self locking
43	970029	3	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
44	969989	3	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
45	986019	6	Washer 1/4 medium flat
46	970499	4	Capscrew 3/8-16 x 1-3/4 inch long hex head grade 5
47	970509	4	Capscrew 3/8-16 x 2 inch long hex head grade 5
48	970519	19	Capscrew 3/8-16 x 2-1/4 inch long hex head grade 5
49	986269	42	Washer 5/16 medium flat
50	970529	8	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5
			Parts list continued on next page

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Platform, folding rails

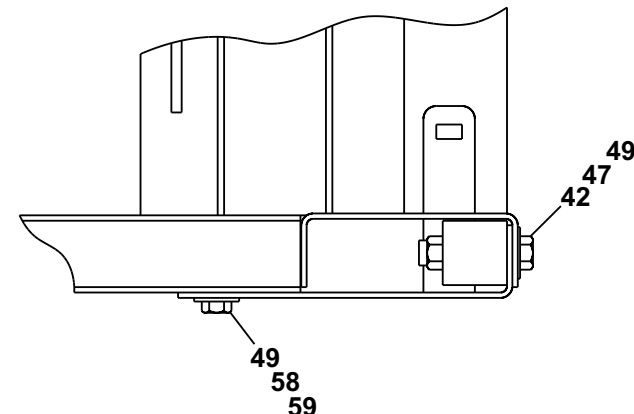
item	part no	qty	description
51	970449	8	Capscrew 3/8-16 x 3/4 inch long hex head grade 5
52	974659	4	Machine screw #10-24 x 1/2 inch long round head
53	5560034	6	Nut #10-24 self locking
54	302671-99	1	Slider
55	302474	2	Slide pad
56	302920-99	1	Detent paddle
57	5093002	3	Clamp
58	970249	3	Capscrew 5/16-18 x 7/8 inch long hex head grade 5
59	5560031	3	Nut 5/16-18 self locking
60	592254	1	Shim guide bracket
61	2572009	2	Bushing
62	987119	2	Washer 3/8 medium lock
63	592144	4	Washer special 3/4 flat zinc plated
64	5560643	2	Capscrew 3/8-16 x 3-1/4 inch long hex head grade 5
65	986299	4	Washer 3/8 medium flat



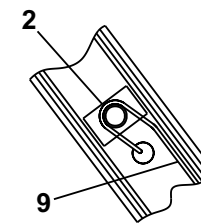
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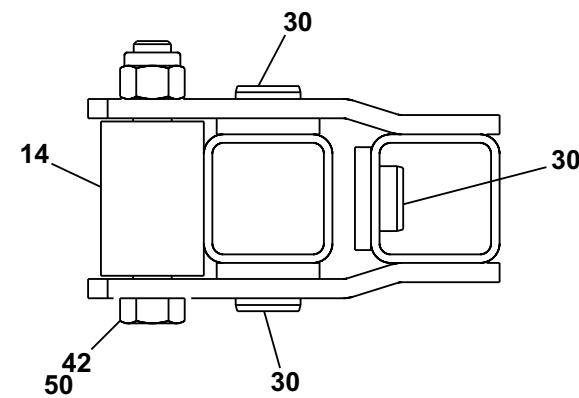
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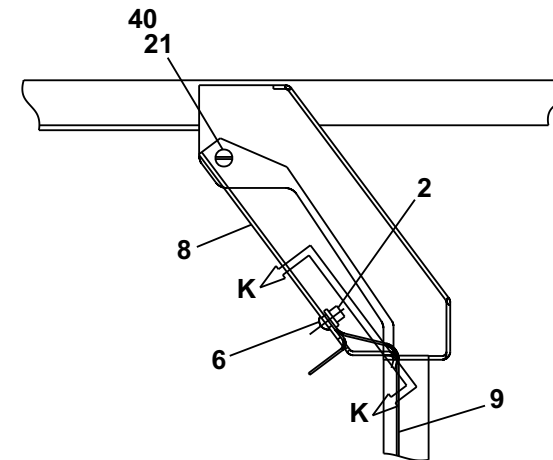
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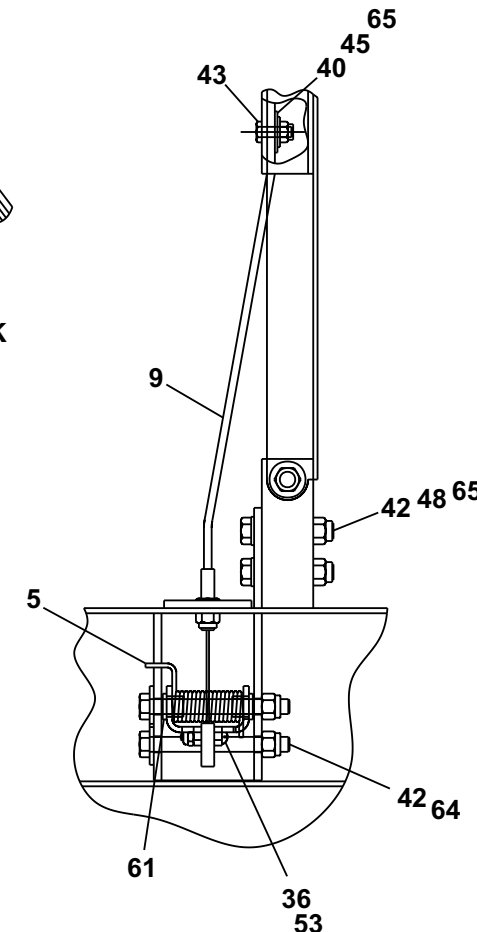
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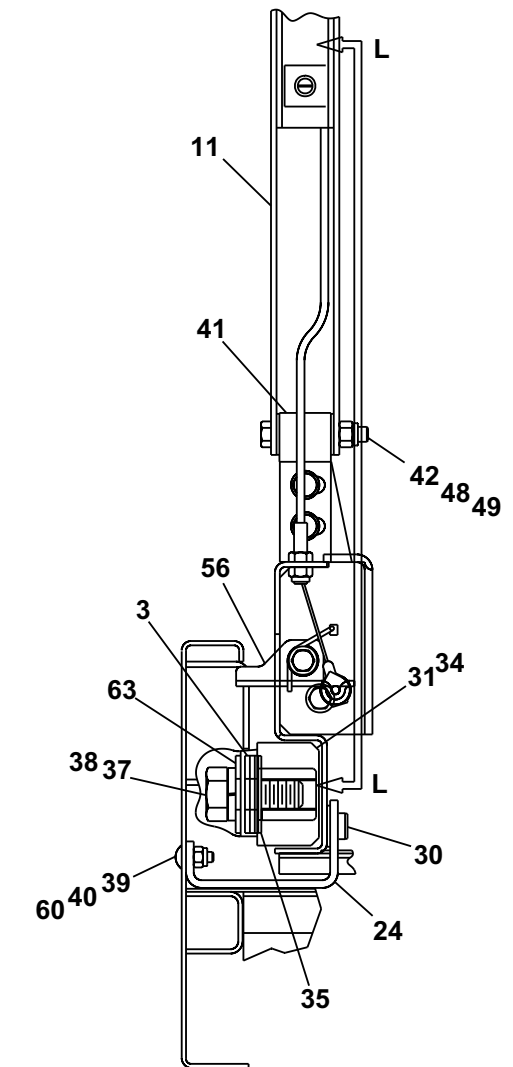
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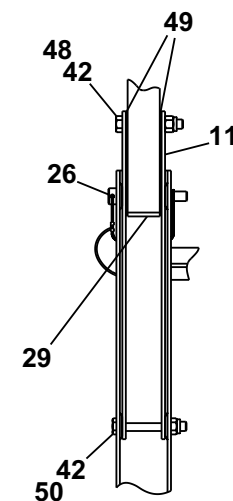
DETAIL J



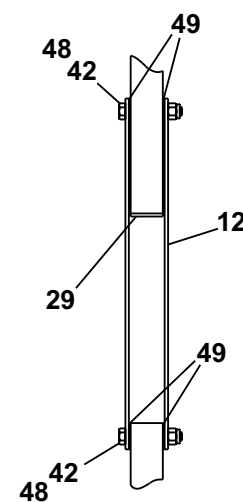
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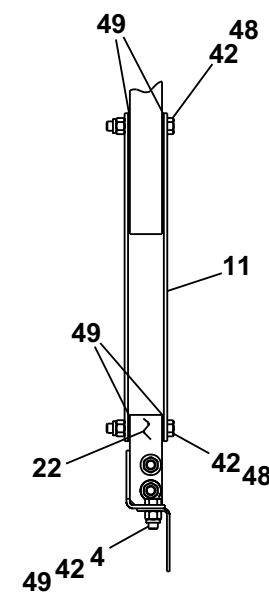
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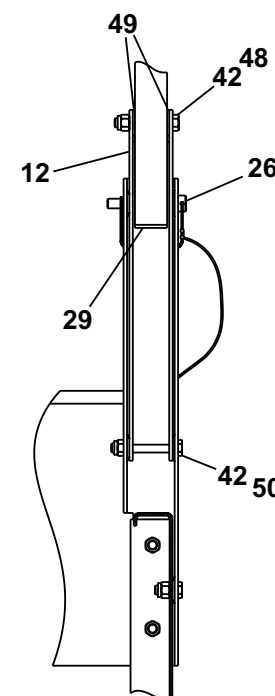
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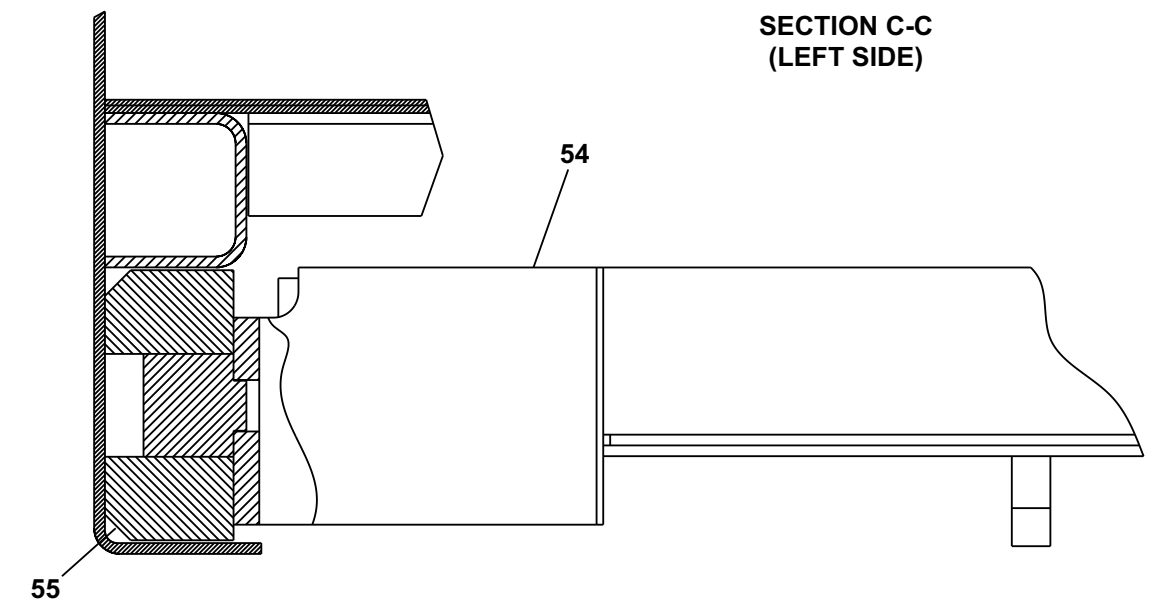
SECTION G-G



SECTION H-H



SECTION I-I

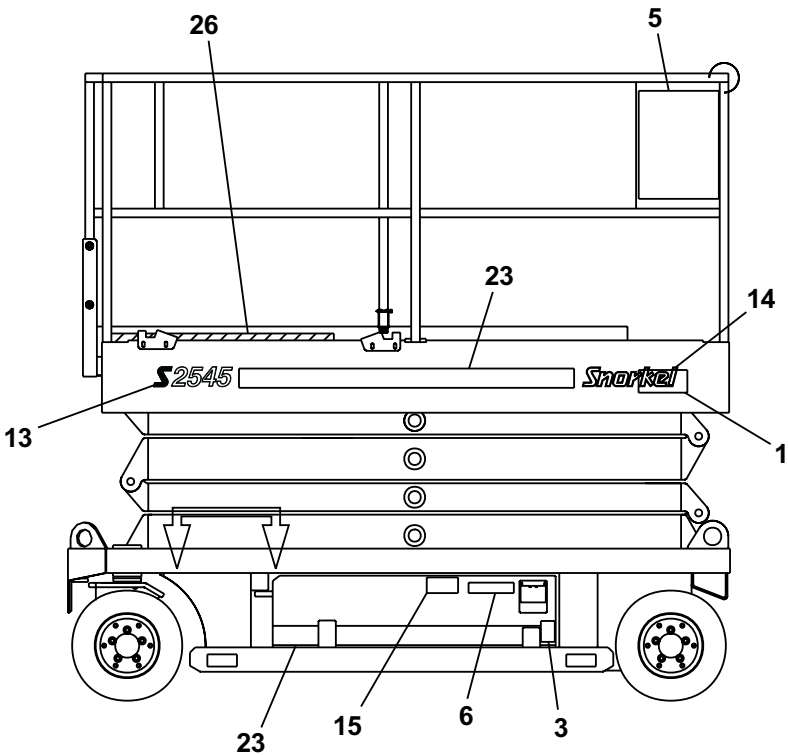


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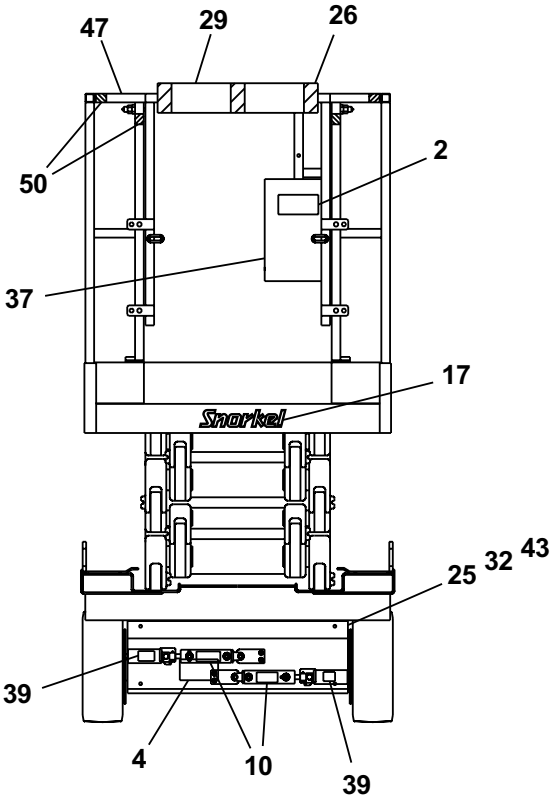
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Placards, decals and covers

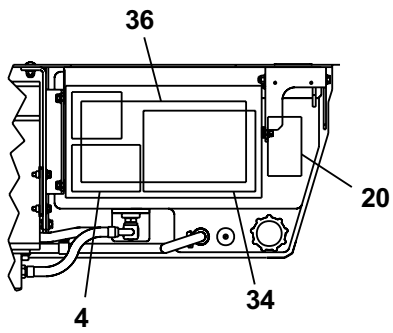
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1		2	Placard, platform capacity - (consult factory)
2	562426	1	Decal, operating manual enclosed
3	416836	1	Decal, battery charge
4	300740	2	Decal, danger towing instructions
5	480658	2	Decal, danger tipover/electrical hazard
6	300760	2	Decal, danger tipover hazard
7	451986	1	Decal, do not alter
8	0181562	1	Placard, ANSI standard
9	0070420	1	Placard, emergency bleed down valve
10	475596	2	Decal, caution cylinder disassembly
11	302950	1	Decal, hydraulic oil level
12	583656	1	Decal, danger safety prop
13	569301	2	Decal, S2545 logo
14	569295	2	Decal, Snorkel brand logo
15	451726	1	Decal, check battery before charging
16	0070901	1	Placard, caution serial number
17	569294	2	Decal, Snorkel brand logo
18	0072545	1	Decal, emergency stop
19	5569936	4	Pop rivet .094 diameter 1/8 domed aluminum
20	451776	1	Decal, hydraulic fluid level
21	300699	1	Decal, Snorkel logo
22	300700	1	Decal, danger shearing/crushing
23	0074920	4	Decal, 3 inch stripe
24	621486	6	Decal, fork lift here
25	5560033	4	Nut 3/8-16 self locking
26	969249	1	Decal, warning stripes x 172 inch long
27	302781	1	Placard, upper control box
28	7030002	1	Decal, lube recommendations
29	9980003	1	Foam pipe wrap x 24 inches long
30	301667	1	Ground strap
31	7030004	2	Decal, OmniQuip logo
32	986299	4	Washer 3/8 medium flat
33	5560097	8	Speed nut 5/16-18
34	302820	1	Decal, caution no step
35	302782	1	Placard, lower control box
36	302985	1	Decal, lower controls
37	562386	1	Literature compartment
38	302784	1	Decal, hydraulic schematic
39	0074311	3	Decal, danger cylinder failure - (1 per cylinder)
40	5569944	8	Capscrew 5/16-18 x 3/4 inch long whiz-lock
41	25560083	1	Trim lock x 12 inches long
42	970029	4	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
43	302357-99	1	Cover, brake cylinder
44	5560004	4	Nut 1/4-20 self locking
45	302795-99	1	Cover, base frame rear
46	302559	4	Decal, danger pinch point
47	302562	10	Decal, pinch point
48	302567	3	Decal, danger swing down rails
49	302568	3	Decal, danger pinch point
50	969249	1	Decal, warning stripes x 96 inch long



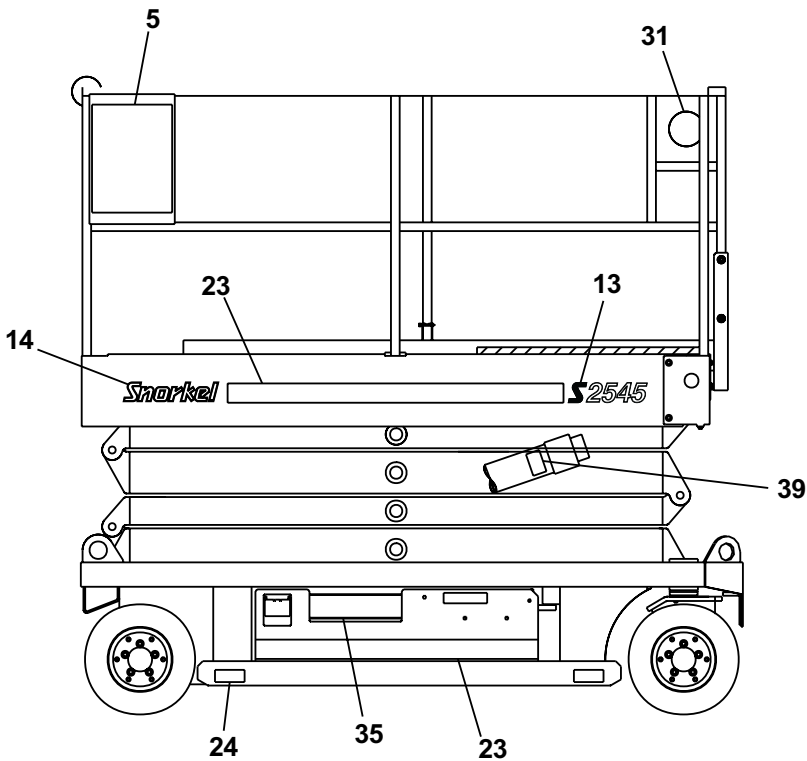
LEFT SIDE



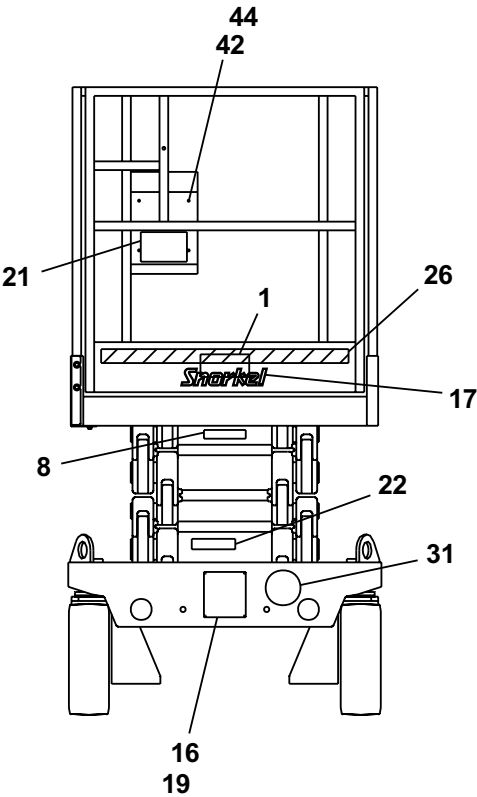
REAR VIEW
(STEER END)



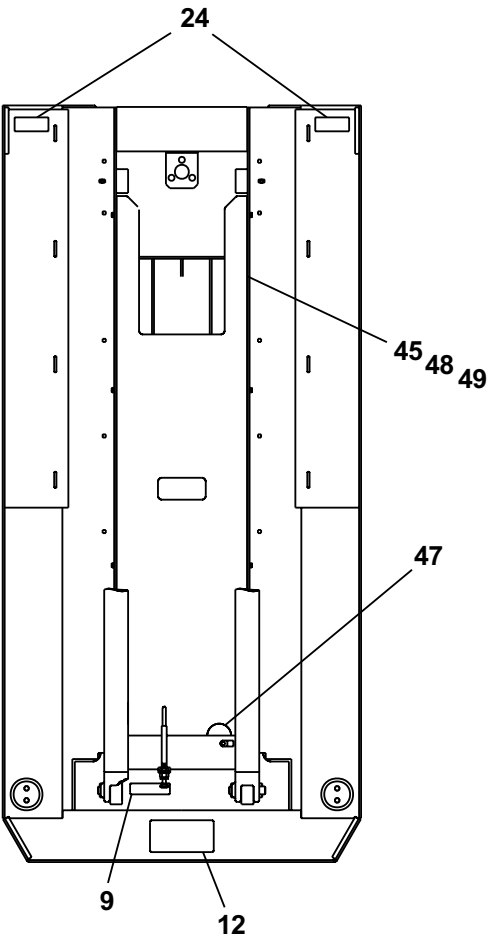
HYDRAULIC TRAY



RIGHT SIDE



FRONT VIEW
(STEER END)



TOP VIEW

AW302780-1

F

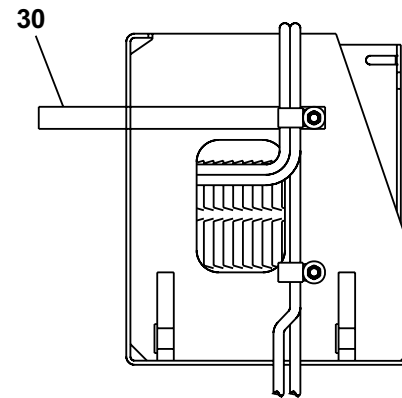
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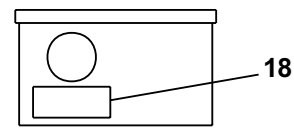
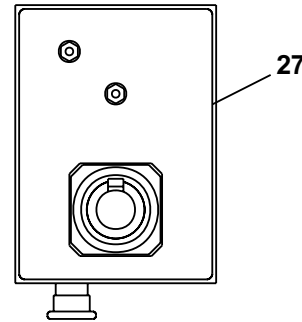
C

B

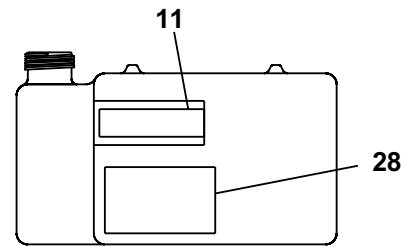
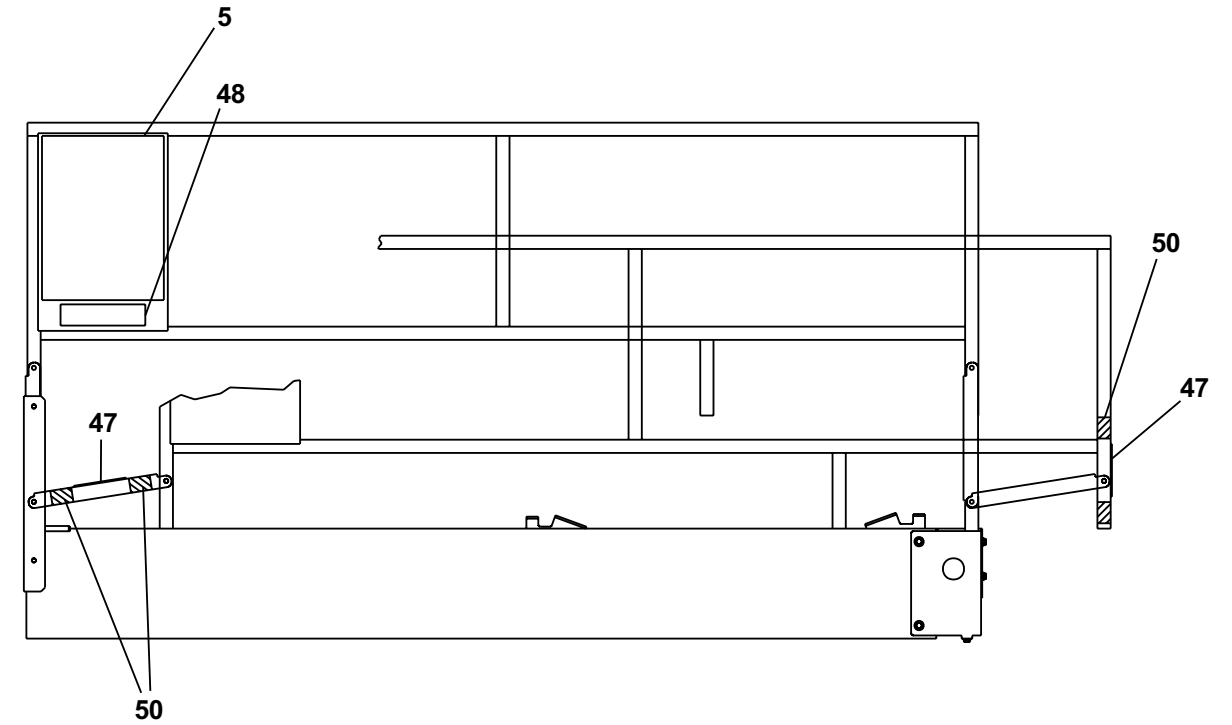
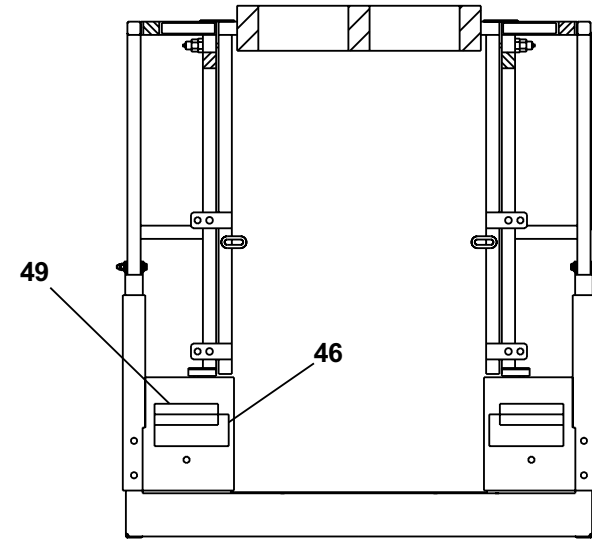
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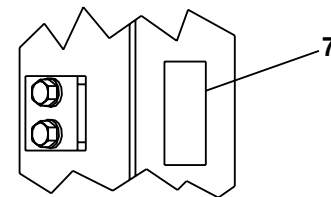
BATTERY TRAY



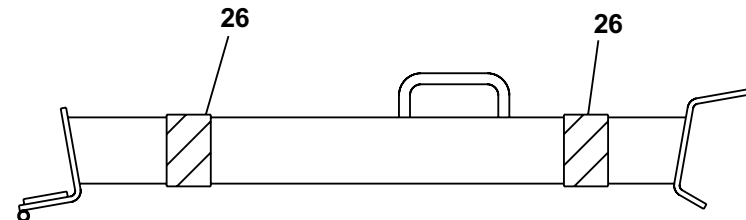
UPPER
CONTROL BOX



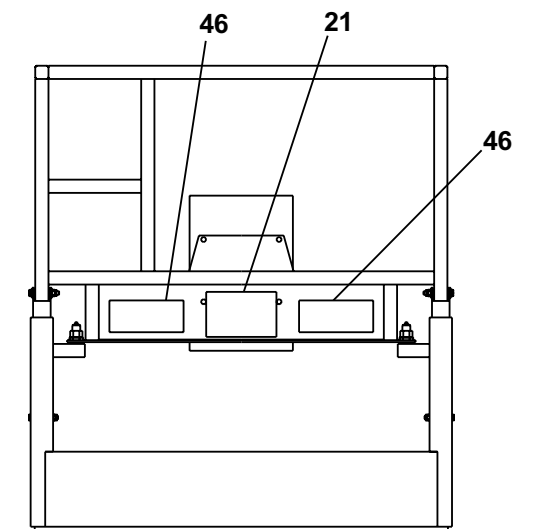
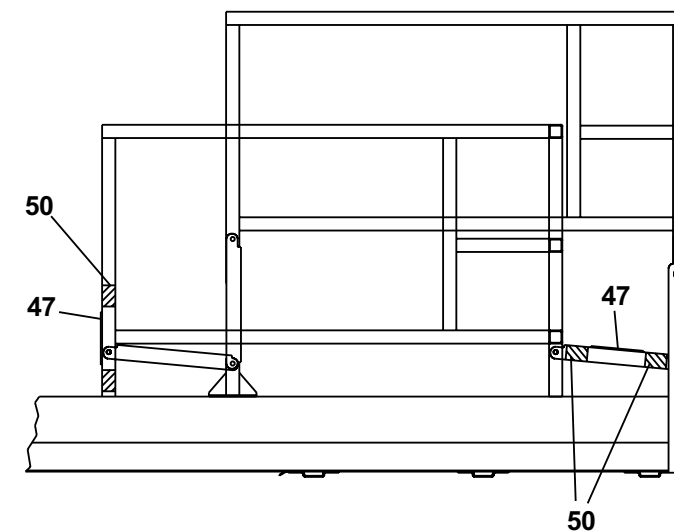
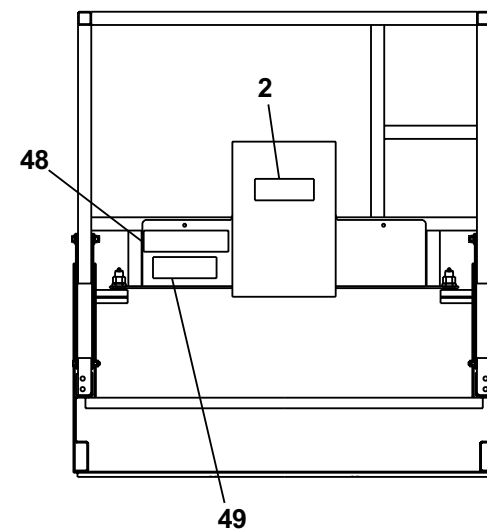
HYDRAULIC OIL
RESERVIOR



SECTION A-A



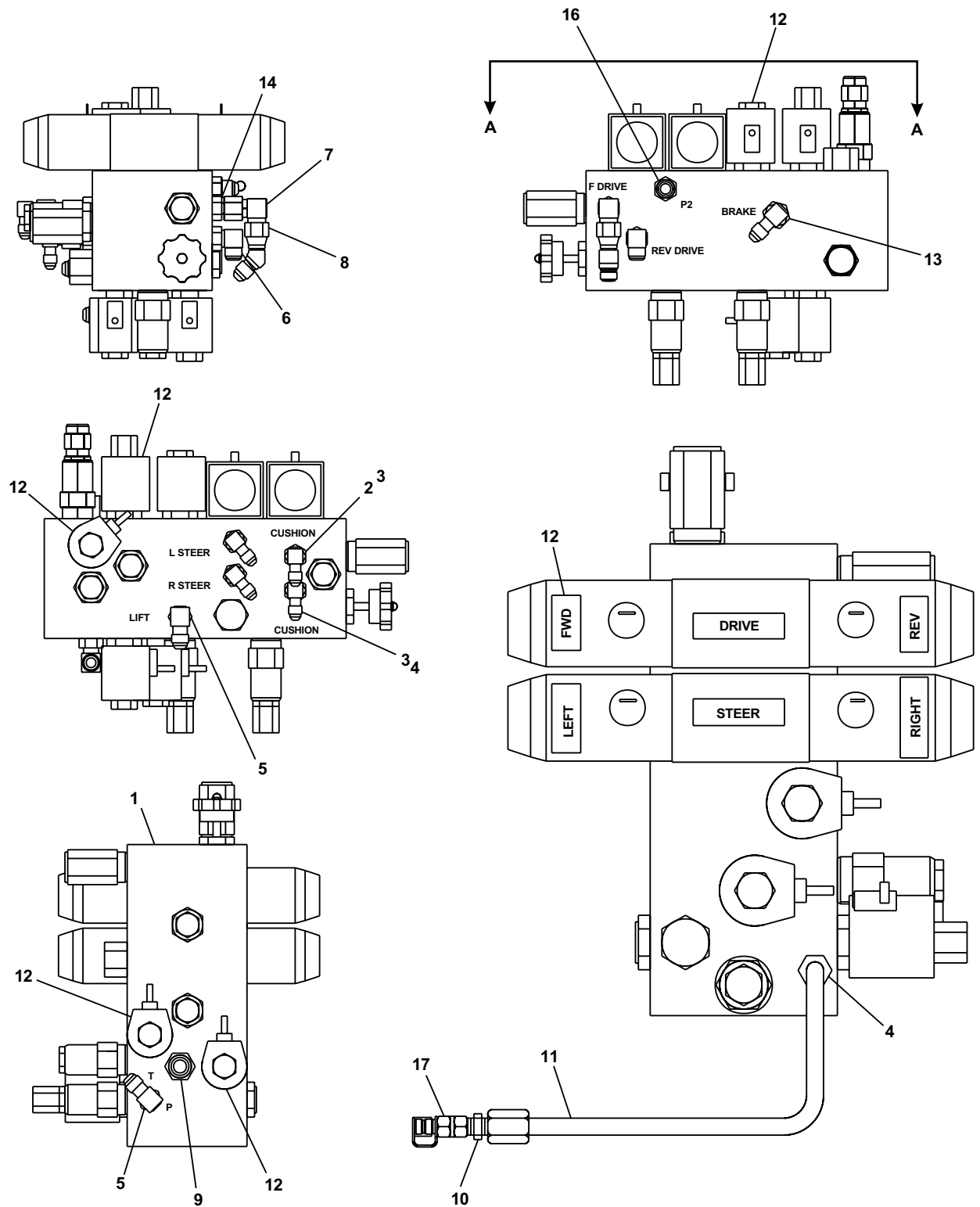
SAFETY PROP



AW302780-2

<https://truckmanualshub.com/>
Control valve, main

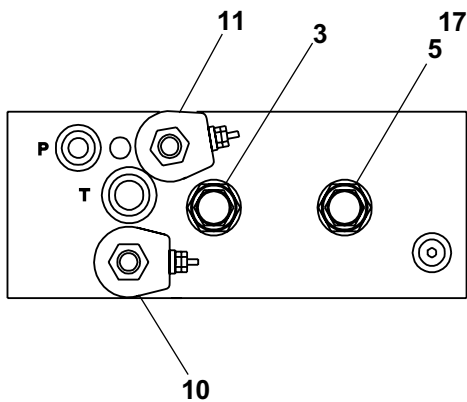
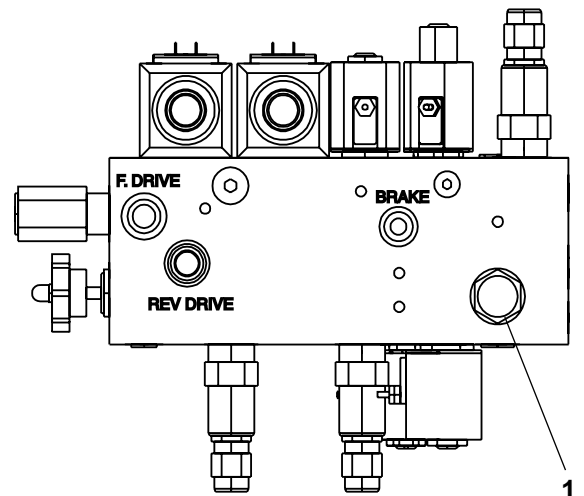
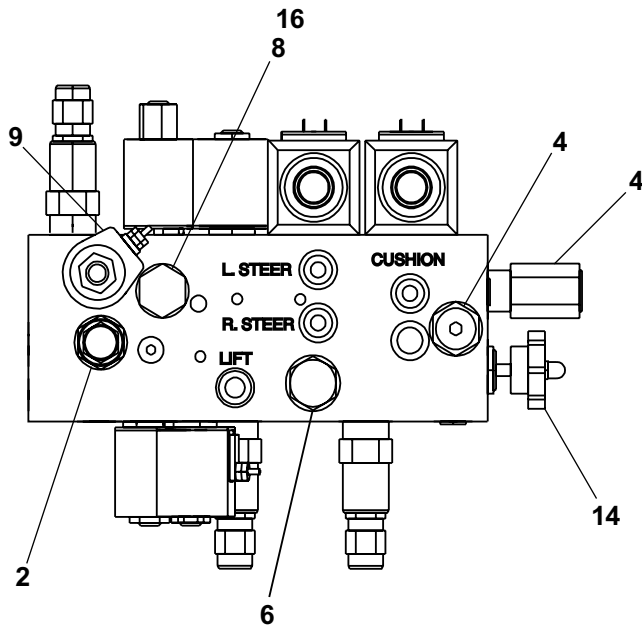
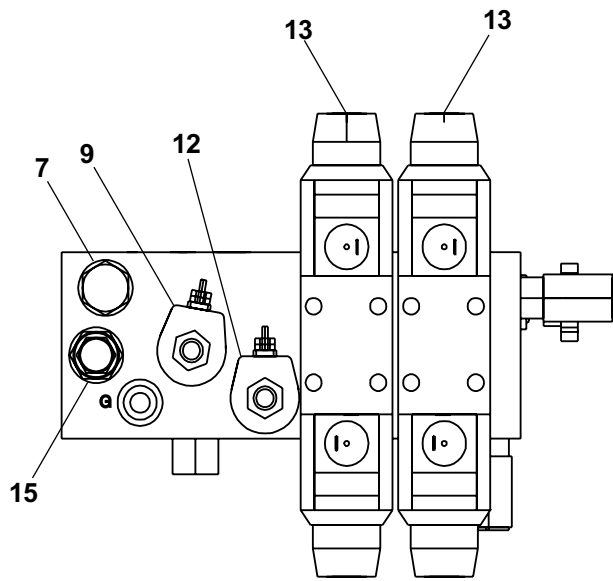
item	part no	qty	description
	302443	1	Control valve, main
1	302301	1	Manifold valve - (see page 2-4 for parts breakdown)
2	5065803	2	Long straight thread adapter
3	5037003	4	Swivel nut 90° elbow
4	5065703	3	Straight thread adapter
5	5035305	2	Straight thread 90° elbow
6	5035315	1	Straight thread 90° elbow
7	5037006	1	Swivel nut 90° elbow
8	5036906	1	Swivel nut 45° elbow
9	5065806	1	Long straight thread adapter
10	5034802	1	Connector
11	0070908	1	1/4 inch hydraulic hose
12	302818	1	Decal set, valve
13	5035303	1	Straight thread 90° elbow
14	5065728	1	Straight thread adapter
15	5070005	1	Diagnostic nipple
16	5065707	1	Straight thread adapter



VIEW A-A

AW302443

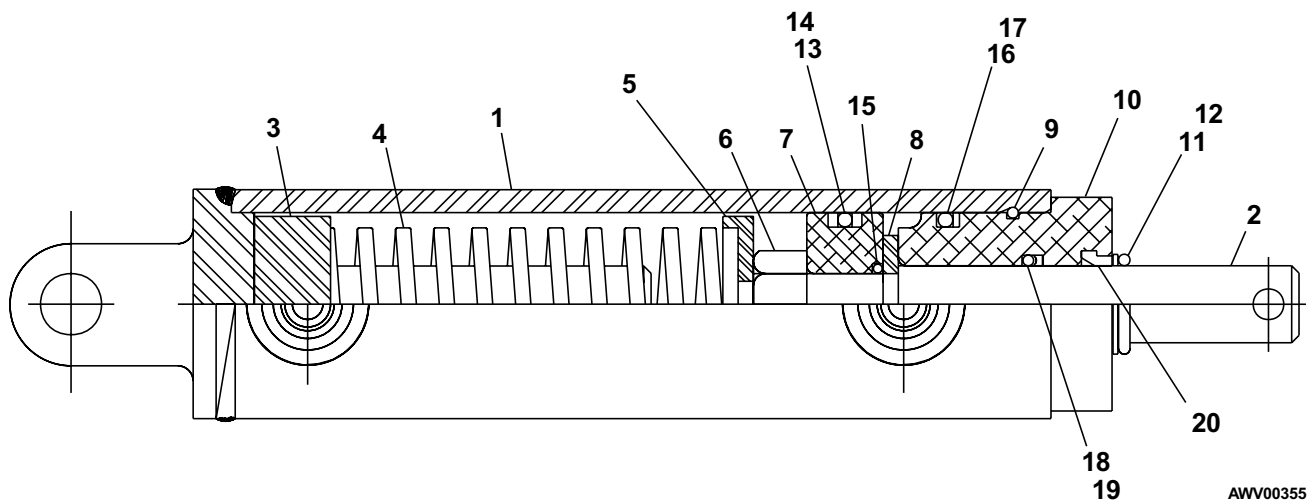
item	part no	qty	description
1	302301	1	Manifold valve
	6010719	1	Check valve cartridge
	565666	1	Seal repair kit
2	6010779	1	Relief valve cartridge
	6018018	1	Seal repair kit
3	6010780	1	Relief valve cartridge
	6018018	1	Seal repair kit
4	6010781	2	Relief valve cartridge
	6018018	1	Seal repair kit
5	6010782	1	Relief valve cartridge
	6018018	1	Seal repair kit
6	6010784	1	Flow control cartridge valve
	6018018	1	Seal repair kit
7	6010848	1	Flow control cartridge valve
	6018019	1	Seal repair kit
8	6010847	1	Flow control cartridge valve
	6010818	1	Seal repair kit
9	6010787	2	Solenoid valve
	3049853	1	Seal repair kit
	8220193	1	Replacement cartridge
	8220194	1	Replacement solenoid, 24 volt DC
10	6010789	1	Solenoid valve
	3040853	1	Seal repair kit
	8220195	1	Replacement cartridge
	8220194	1	Replacement solenoid, 24 volt DC
11	6010837	1	Solenoid valve
	6010819	1	Seal repair kit
	8220196	1	Replacement cartridge
	8220194	1	Replacement solenoid, 24 volt DC
12	6010717	1	Solenoid valve
	6010537	1	Seal repair kit
	6010707	1	Replacement cartridge
	3040554	1	Replacement solenoid, 24 volt DC
13	6010886	2	Directional control valve section
	3040680	2	Replacement solenoid, 24 volt DC
14	6010292	1	Manual bleed down cartridge valve
	0150567	1	Seal repair kit
	8060188	1	Replacement knob
15	6010782	1	Relief valve cartridge
	6018018	1	Seal repair kit
16	6010813	1	Orifice disc, .030 inch diameter
17	6010792	1	Counterbalance pilot piston



AW302301

<https://truckmanualshub.com/>
Cylinder, brake - Green

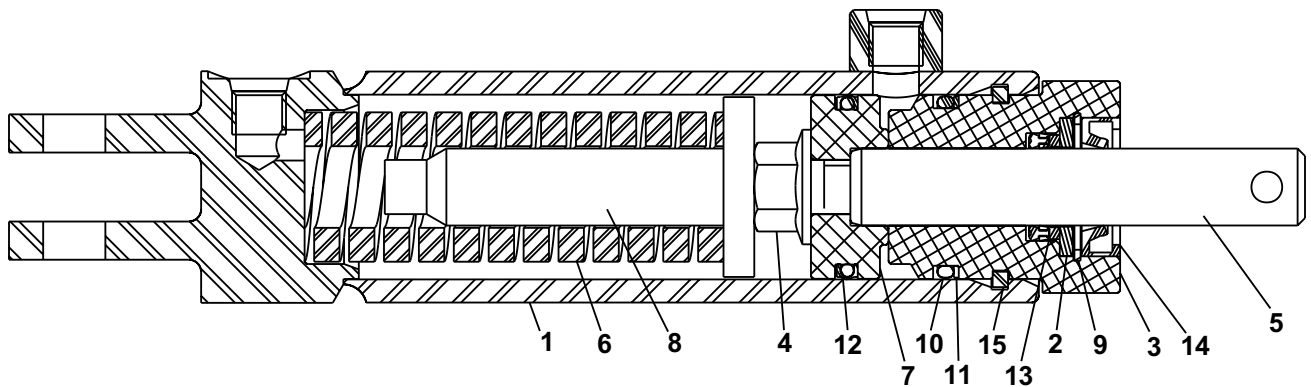
item	part no	qty	description
	590984-99	1	Cylinder, brake - Green
	8070203	1	Seal repair kit - (kit includes items 13 through 20)
1		1	Cylinder barrel - (not sold separately)
2	8070990	1	Rod
3	8070976	1	Spring retainer
4	8070977	1	Spring
5	8070979	1	Spring cap
6	8070939	1	Full lock nut
7	8070940	1	Piston
8	8070944	1	Washer
9	8070237	1	Lockwire
10	8070878	1	Head
11	8070871	1	O-ring
12	8070872	1	Back-up
13	Kit item	1	O-ring - (not sold separately)
14	Kit item	2	Back-up - (not sold separately)
15	Kit item	1	O-ring - (not sold separately)
16	Kit item	1	O-ring - (not sold separately)
17	Kit item	1	Back-up - (not sold separately)
18	Kit item	1	O-ring - (not sold separately)
19	Kit item	1	Back-up - (not sold separately)
20	Kit item	1	Rod wiper - (not sold separately)



AWV00355

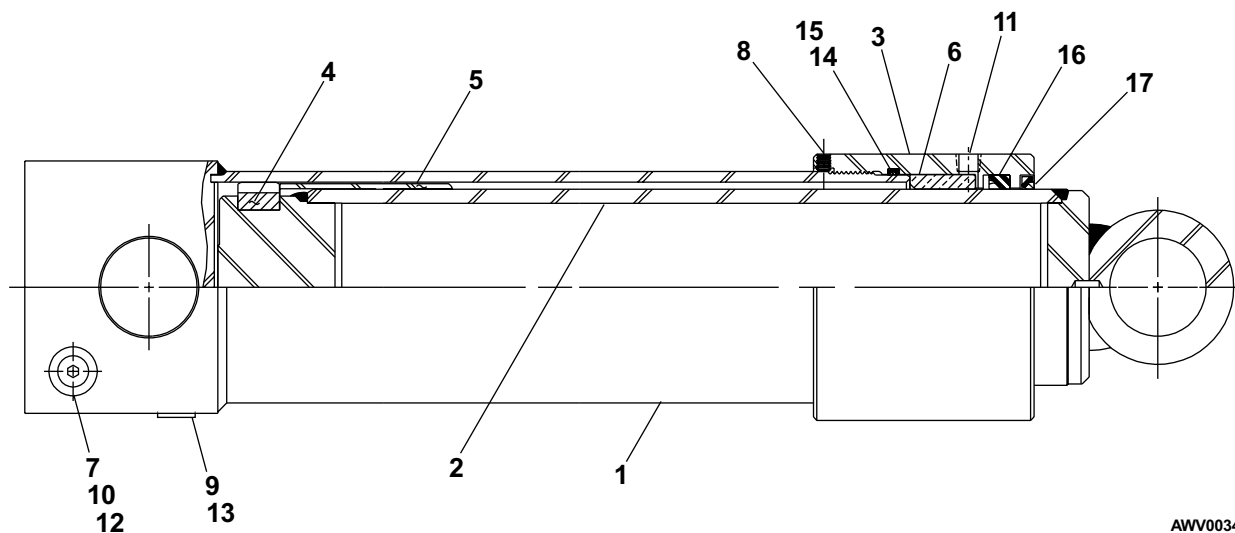
<https://truckmanualshub.com/>
Cylinder, brake - Rosenboom

item	part no	qty	description
	590984-99	1	Cylinder, brake - Rosenboom
	6091417	1	Seal repair kit - (kit includes items 9 through 15)
1		1	Tube - (not sold separately)
2	6091338	1	Support washer
3	6091340	1	Head gland
4	6091342	1	Capscrew 7/16-14 flange bolt grade 8
5	6091414	1	Rod
6	458916	1	Die spring
7	6091415	1	Piston
8	6091416	1	Spring guide
9	Kit item	1	Snap ring - (not sold separately)
10	Kit item	1	O-ring - (not sold separately)
11	Kit item	1	Back-up - (not sold separately)
12	Kit item	1	Crown seal - (not sold separately)
13	Kit item	1	Deep Z-seal - (not sold separately)
14	Kit item	1	Rod wiper - (not sold separately)
15	Kit item	1	Square wrap-in wire - (not sold separately)



AW590984

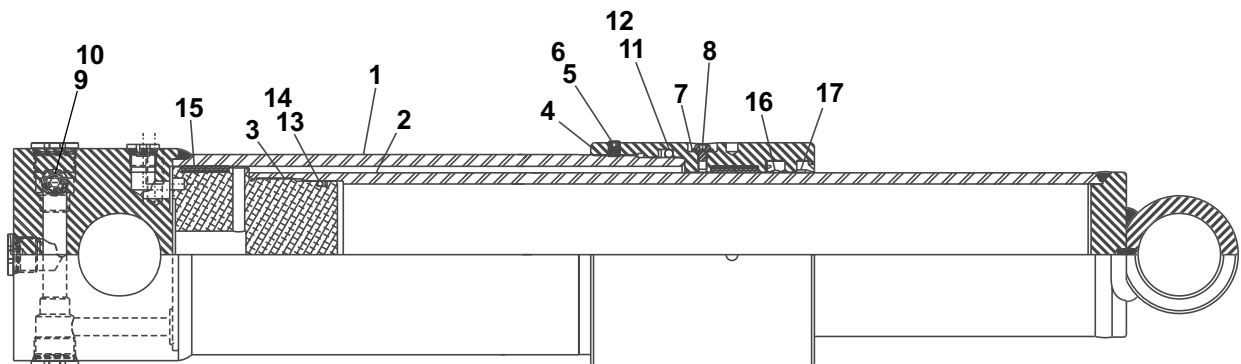
item	part no	qty	description
	302240-89	1	Cylinder, lift - GBI
	302601	1	Seal repair kit - (kit includes items 12 through 17)
1		1	Cylinder tube - (not sold separately)
2	8070270	1	Rod
3	8070936	1	Retainer
4	8070935	1	Piston
5	8070934	1	Spacer
6	8070933	1	Bushing
7	8070271	1	Pipe plug
8	6091200	1	Set screw
9	8070015	1	Port plug
10	8070580	1	Port plug
11	8070932	1	Pipe plug
12	Kit item	1	O-ring - (not sold separately)
13	Kit item	1	O-ring - (not sold separately)
14	Kit item	1	O-ring - (not sold separately)
15	Kit item	1	Back-up - (not sold separately)
16	Kit item	1	U-ring - (not sold separately)
17	Kit item	1	Wiper - (not sold separately)



AWV00340

Cylinder, lift - Texas

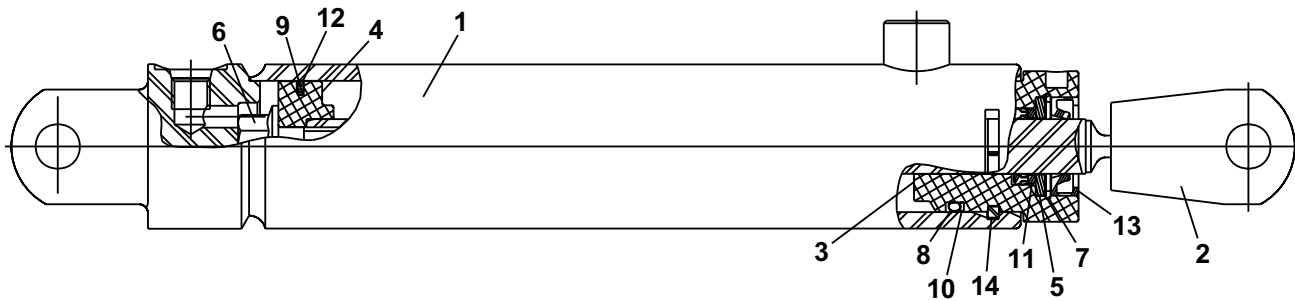
item	part no	qty	description
	302240-89	1	Cylinder, lift - Texas
	8200184	1	Seal repair kit - (kit includes items 11 through 17)
1		1	Cylinder tube - (not sold separately)
2	8200178	1	Rod
3	8200176	1	Piston
4	8200177	1	Head
5	8200111	1	Set screw
6	8200049	1	Nylon plug
7	8200188	1	Washer seal
8	8200187	1	Bleeder plug
9	8200180	1	Port plug
10	8200181	1	Orifice plug
11	Kit item	1	O-ring - (not sold separately)
12	Kit item	1	Back-up - (not sold separately)
13	Kit item	1	O-ring - (not sold separately)
14	Kit item	1	Back-up - (not sold separately)
15	Kit item	4	Wear ring - (not sold separately)
16	Kit item	1	Seal - (not sold separately)
17	Kit item	1	Wiper - (not sold separately)



AWV00361

<https://truckmanualshub.com/>
Cylinder, steering - Rosenboom

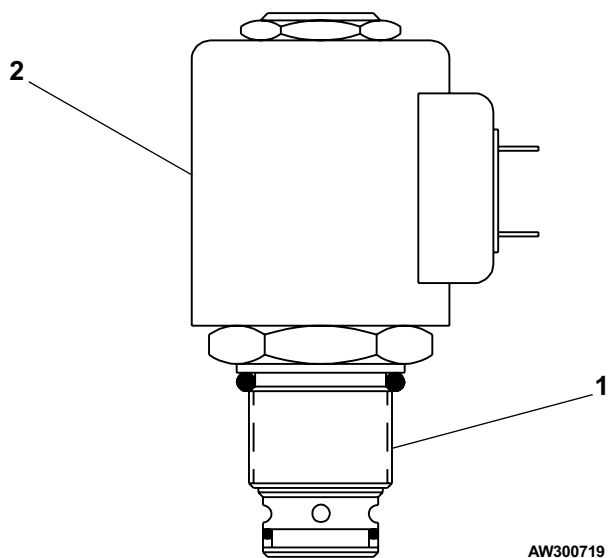
item	part no	qty	description
	6047078-99	1	Cylinder, steering - Rosenboom
	6091343	1	Seal repair kit - (kit includes items 7 through 14)
1		1	Tube - (not sold separately)
2	6091357	1	Rod
3	6091340	1	Head gland
4	6091339	1	Piston
5	6091338	1	Support washer
6	6091342	1	Capscrew 7/16-14 flange bolt grade 8
7	Kit item	1	Snap ring - (not sold separately)
8	Kit item	1	O-ring - (not sold separately)
9	Kit item	1	Square ring - (not sold separately)
10	Kit item	1	Back-up - (not sold separately)
11	Kit item	1	Deep Z-seal - (not sold separately)
12	Kit item	1	Piston seal - (not sold separately)
13	Kit item	1	Rod wiper - (not sold separately)
14	Kit item	1	Square wrap-in wire - (not sold separately)



AWV00368

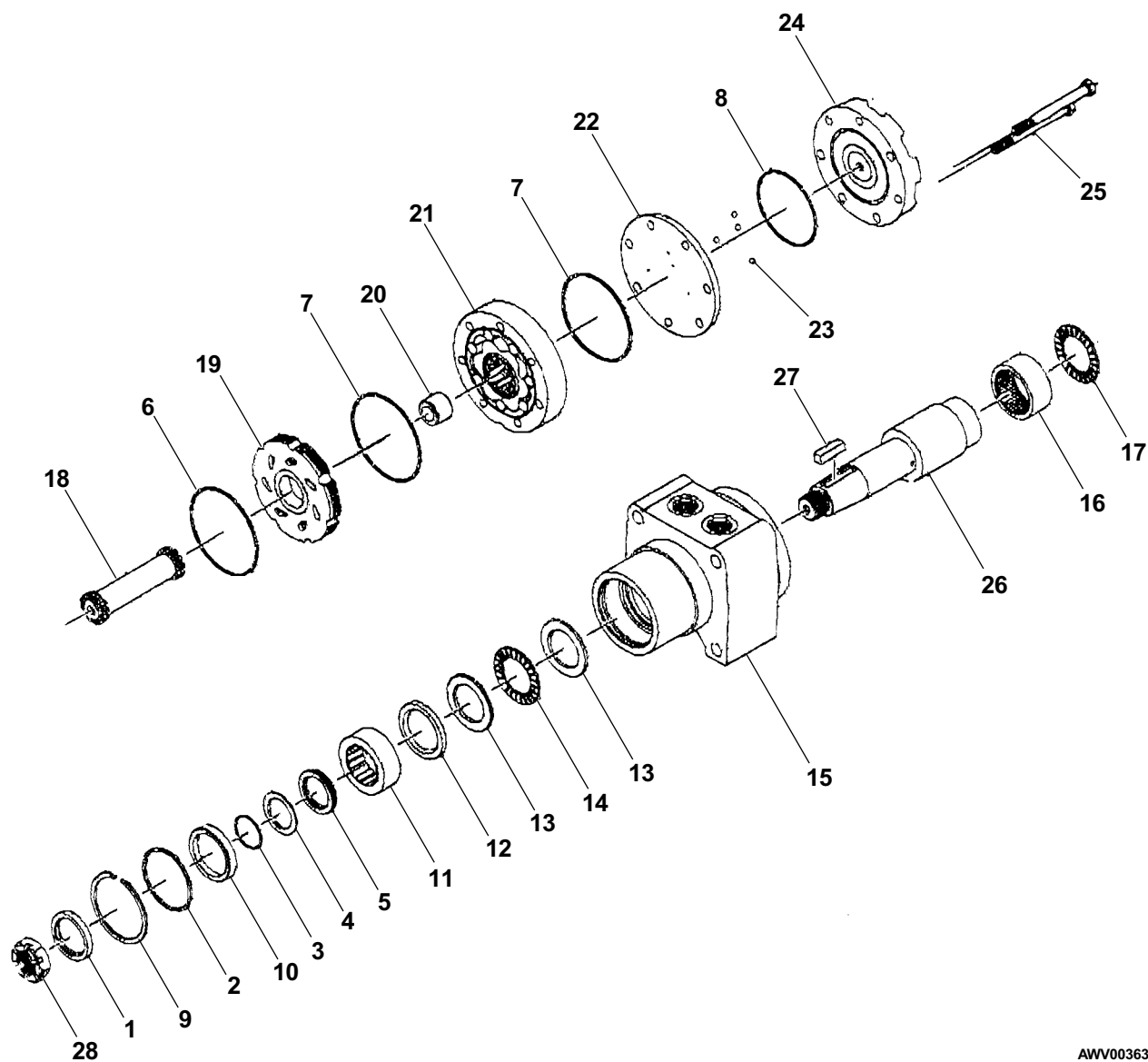
<https://truckmanualshub.com/>
Lift cylinder cartridge valve

item	part no	qty	description
	300719	1	Lift cylinder cartridge valve
	565666	1	Seal repair kit
1	6010509	1	Replacement cartridge valve
2	3040458	1	Replacement solenoid, 24 volt DC



<https://truckmanualshub.com/>
Hydraulic drive motor - White

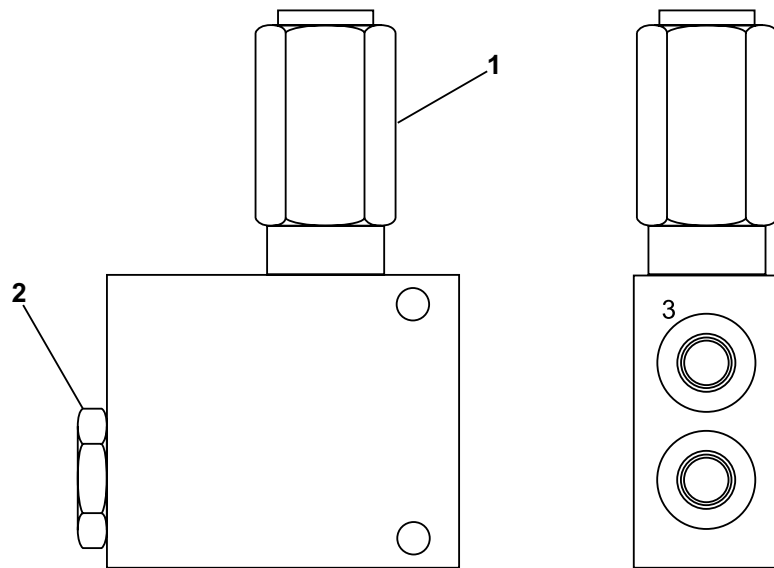
item	part no	qty	description
	302302-99	1	Hydraulic drive motor
	8230094	1	Seal repair kit - (kit includes items 1 through 8)
1	Kit item	1	Dust seal - (not sold separately)
2	Kit item	1	High pressure seal - (not sold separately)
3	Kit item	1	Metal backup shim - (not sold separately)
4	Kit item	1	Teflon backup seal - (not sold separately)
5	Kit item	1	Shaft seal - (not sold separately)
6	Kit item	1	Rear housing seal - (not sold separately)
7	Kit item	2	Body seal - (not sold separately)
8	Kit item	1	End cover seal - (not sold separately)
9	8230152	1	Retaining snap ring
10	8230153	1	Seal carrier
11	8230154	1	Bearing
12	8230155	1	Bearing spacer
13	8230156	1	Thrust washer
14	8230157	1	Front thrust bearing
15		1	Housing - (not sold separately)
16	8230158	1	Rear housing bearing
17	8230131	1	Rear thrust bearing
18	8230147	1	Drive link
19	8230136	1	Manifold
20	8230148	1	Drive link spacer
21	8230159	1	Rotor
22	8230140	1	Balance plate - (includes item 23)
23	8230141	3	Steel balls
24	8230142	1	End cover
25	8230149	7	Assembly bolts
26	8230160	1	Shaft
27	8230161	1	Shaft key
28	8230162	1	Shaft nut



AWV00363

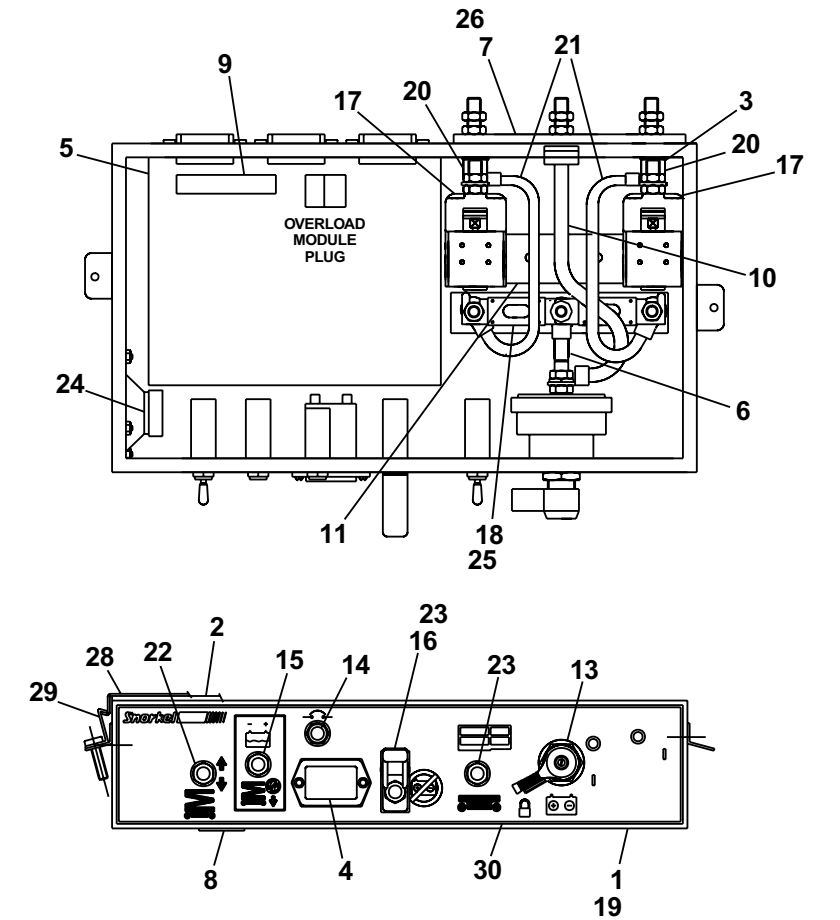
<https://truckmanualshub.com/>
Relief/check valve

item	part no	qty	description
1	302467	1	Relief/check valve
	6010548	1	Relief valve cartridge
	565666	1	Seal repair kit
2	6010719	1	Check valve cartridge
	565666	1	Seal repair kit



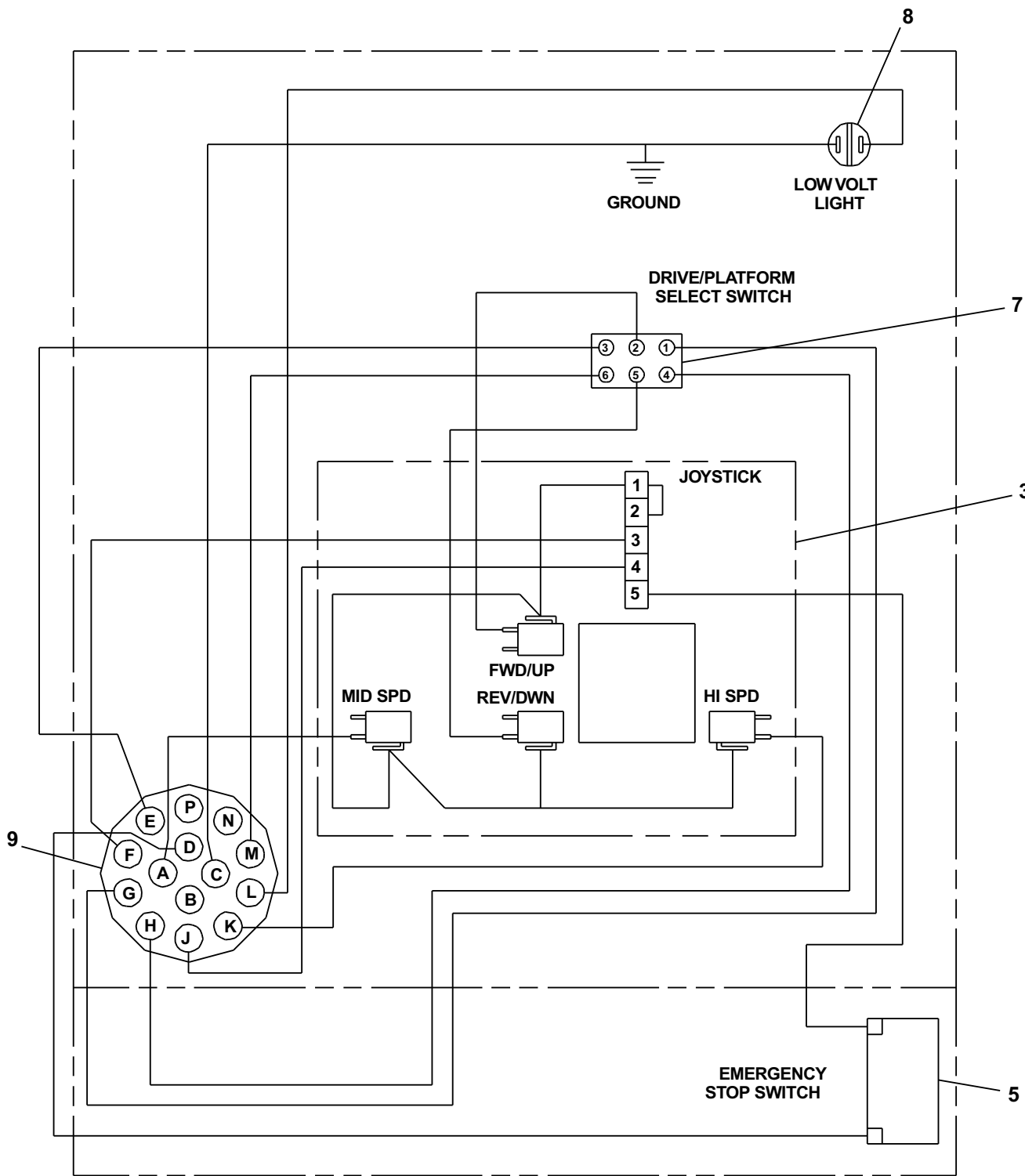
AW302467

item	part no	qty	description
	302986-99	1	Lower control box
1	302821-99	1	Control box, lower
2	302822	1	Gasket kit
3	986299	2	Washer 3/8 medium flat
4	455186	1	Hour meter
5	0360759	1	Printed circuit board, lower control box
6	302824	1	Bus bar
7	302882	1	Bracket, power plate
8	302883	1	Drain plug
9	0360819	1	Wire harness, lower control box internal
10	584926	1	Battery wire
11	0360817-99	1	Bracket, contactor
12	302862	1	Jumper wire
13	302853	1	Switch, battery disconnect
14	582206	1	Circuit breaker, 5 amp thermal
15	302829	1	Light, red 24 volt DC bezel mount
16	562236	1	Guard, emergency stop switch
17	0360814	2	Contactor, 24 volt DC
18	446076	2	Fuse, 250 amp capacity
19	0070967	1	Corrosion inhibitor
20	0360816	2	Threaded adapter
21	0360815	2	Jumper wire
22	3020016	1	Switch, toggle
23	3020047	2	Switch, toggle
24	302832	1	Speaker
25	302833	1	Fuse block, double
26	302834	1	Power plate
27	302861	1	Jumper wire
28	302836-99	1	Cover
29	302837	2	Catch
30	302782	1	Placard, lower control box
31	302860	1	Jumper wire
32	302859	1	Jumper wire
33	302858	1	Jumper wire
34	302857	1	Jumper wire

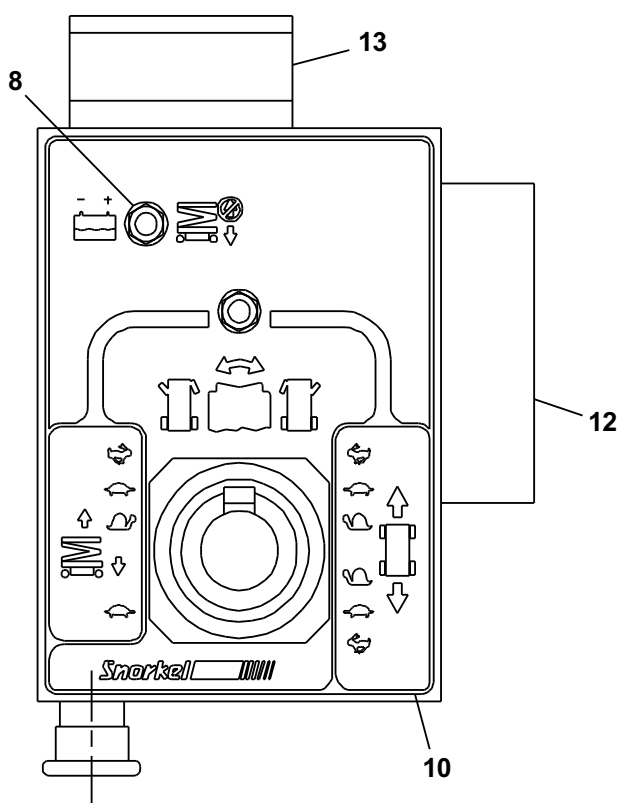
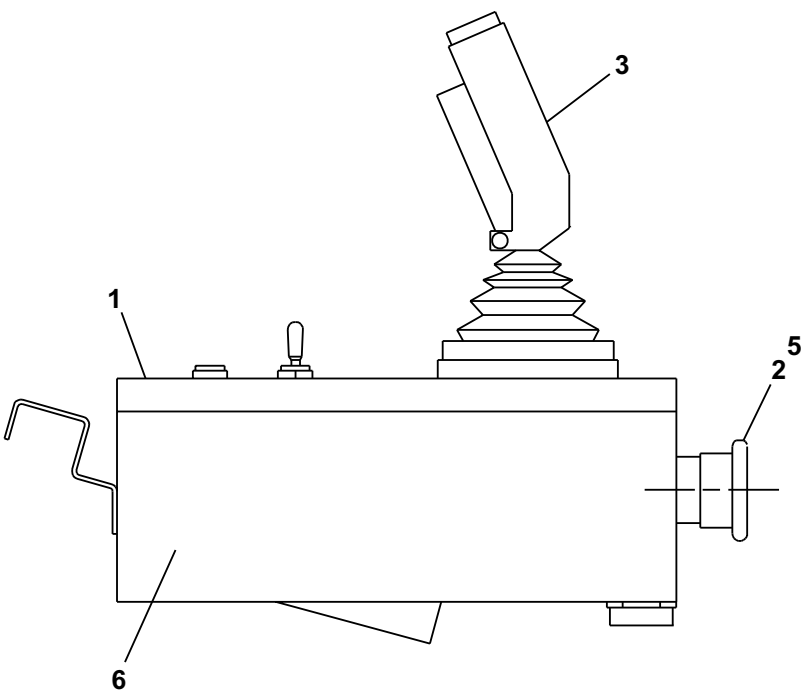


Page 3 - 3

F
E
D
C
B
A



14 PIN PLATFORM CONTROL CABLE CONN	
A	MEDIUM SPEED SIGNAL FROM PLATFORM
B	OPERATOR HORN
C	GROUND TO PLATFORM (-)
D	POWER TO PLATFORM (+)
E	LIFT UP SIGNAL FROM PLATFORM
F	STEER RIGHT SIGNAL FROM PLATFORM
G	DRIVE FORWARD SIGNAL FROM PLATFORM
H	DRIVE REVERSE SIGNAL FROM PLATFORM
J	STEER LEFT SIGNAL FROM PLATFORM
K	HIGH SPEED SIGNAL FROM PLATFORM
L	LOW VOLT LIGHT (+) (PLATF CONT)
M	LIFT DOWN SIGNAL FROM PLATFORM
N	
P	

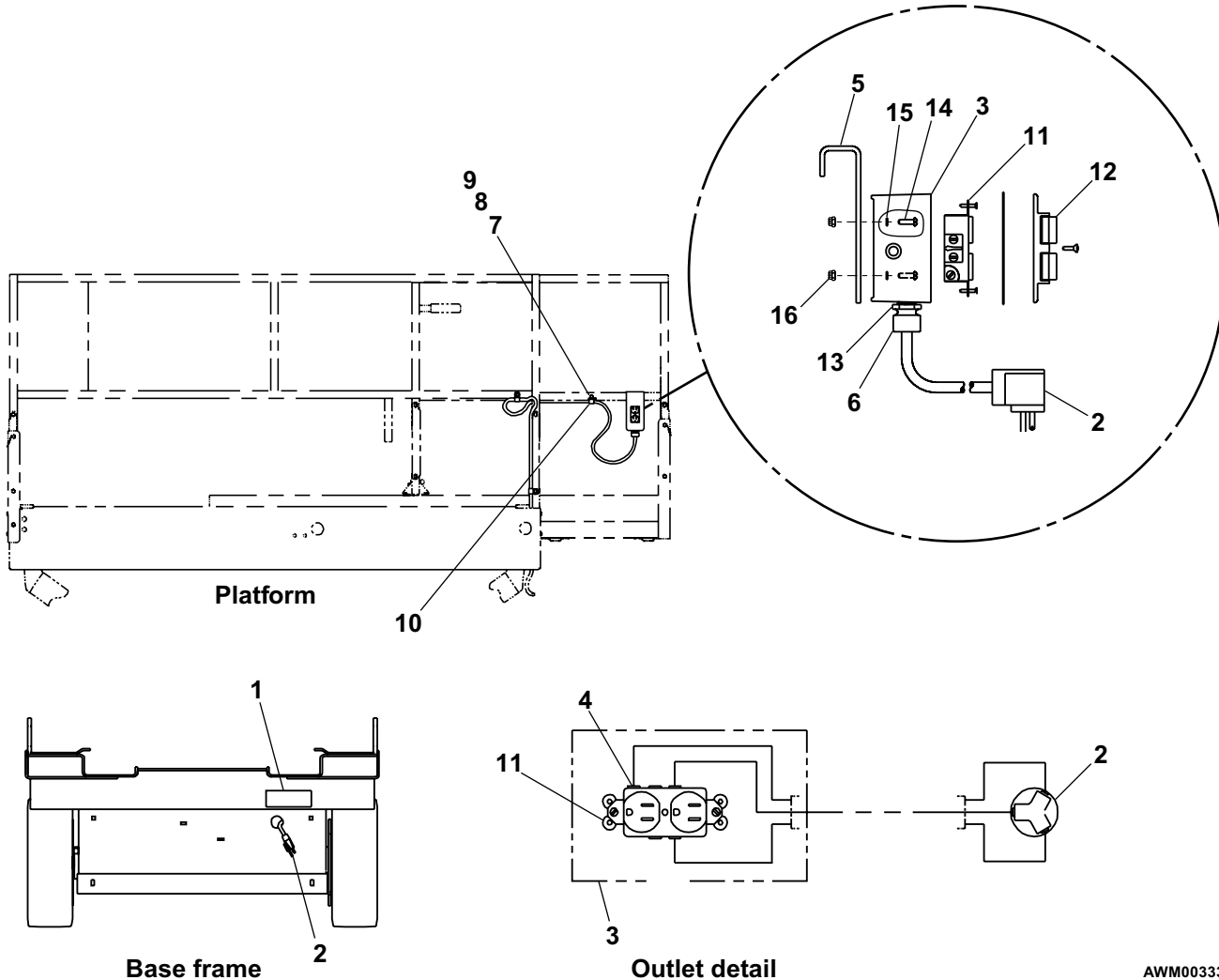


AW0360826

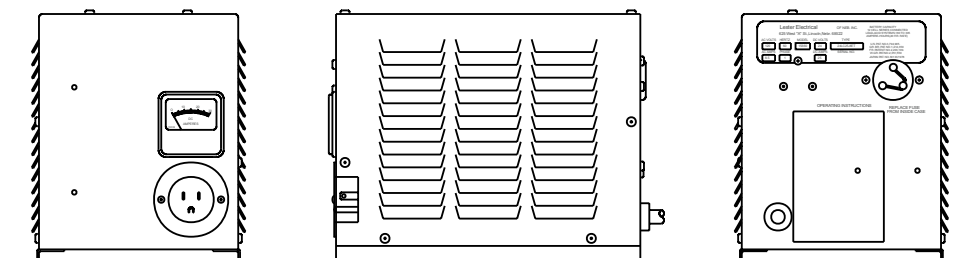
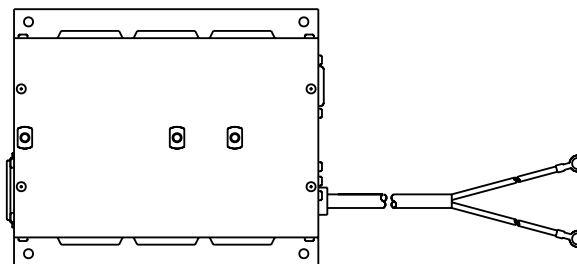
Upper control box

item	part no	qty	description
	0360826-99	1	Upper control box
1	302949	1	Control box housing
2	446826	1	Contact block, emergency stop switch
3	0360811	1	Controller, upper control box - (see page 3-8 for parts breakdown)
4	302943	1	Wire harness, upper control box internal
5	446836	1	Emergency power switch
6	0070967	1	Corrosion inhibitor
7	3020097	1	Switch, toggle
8	302829	1	Light, red 24 volt DC bezel mount
10	302781	1	Placard, upper control box
11	3040208	1	Panel nut
12	300549	1	Mounting bracket
13	300550	1	Mounting bracket

item	part no	qty	description
1	0150606	1	Decal, 125 volt 15 amp power to platform
2	238396	1	Plug male 125 volt AC
	3040709	1	Plug, male twist lock
3	3040297	1	Electrical outlet box
4	3040397	1	Terminal #8 spade 12/10 wire
5	606614-99	1	AC outlet mounting strip
6	3040115	1	Connector
7	986019	2	Washer 1/4 medium flat
8	5569886	2	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
9	5560004	2	Nut 1/4-20 self locking
10	5093002	3	Clamp
11	960779	1	Electrical outlet, standard - 20 amp capacity
	3040624	1	Electrical outlet, GFCI - 20 amp capacity
	3040707	1	Electrical outlet, twist lock - 20 amp capacity
12	3045211	1	Cover, standard electrical outlet
	3040625	1	Cover, GFCI electrical outlet
	3040708	1	Cover, twist lock outlet
13	3040070	1	Connector locknut
14	5560619	2	Machine screw #10-24 x 3/4 inch long round head
15	986009	2	Washer #10 medium flat
16	5560034	2	Nut #10-24 self locking



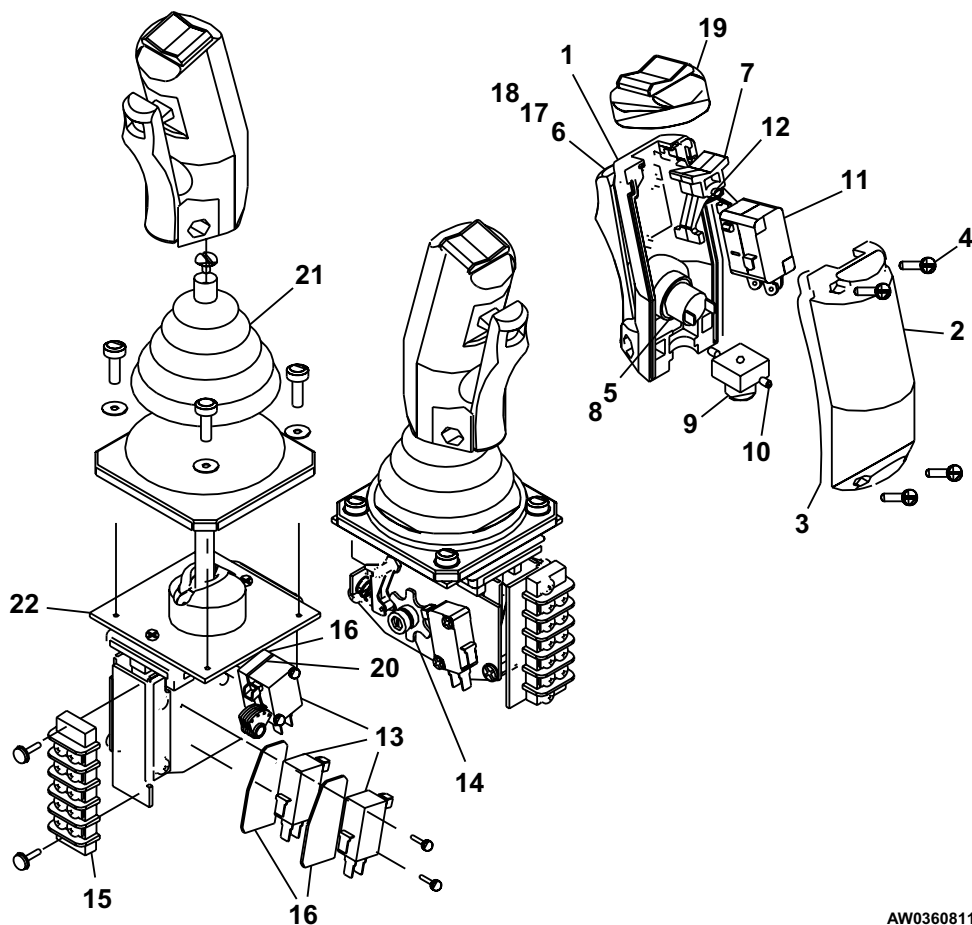
item	part no	qty	description
			Battery charger, 115 volt standard
	300909	1	Battery charger, standard - Lester
1	8120046	1	Case
2	8120015	1	Transformer
3	8120031	1	Heatsink
4	8120023	1	Capacitor
5	8120013	1	Ammeter
6	8120030	1	Electronic timer
7	3040384	1	Fuse assembly
8	8120035	1	Strain relief bushing, AC cord
9	8120047	1	Cordset, DC
10	8120038	1	Motor base receptacle
			Battery charger, 115/230 volt world charger
	300755	1	Battery charger, world - Lester
11	8120032	1	Case
12	8120025	1	Transformer
13	8120013	1	Ammeter
14	300938	1	Electronic timer
15	8120033	1	Shunt
16	8120022	2	Heatsink
17	8120034	1	Control cable
18	8120035	1	Strain relief bushing, DC cord
19	8120036	1	Strain relief bushing, AC cord
20	8120026	1	Cordset, AC
21	8120027	1	Cordset, DC
22	8120028	2	Fuse holder
23	8120018	2	Fuse, 6 amp capacity
24	8120007	1	Switch, slide
25	8120029	1	Switch, with wires
26	8120014	1	Circuit breaker, 40 amp



AW300909

<https://truckmanualshub.com/>
Controller, upper control box

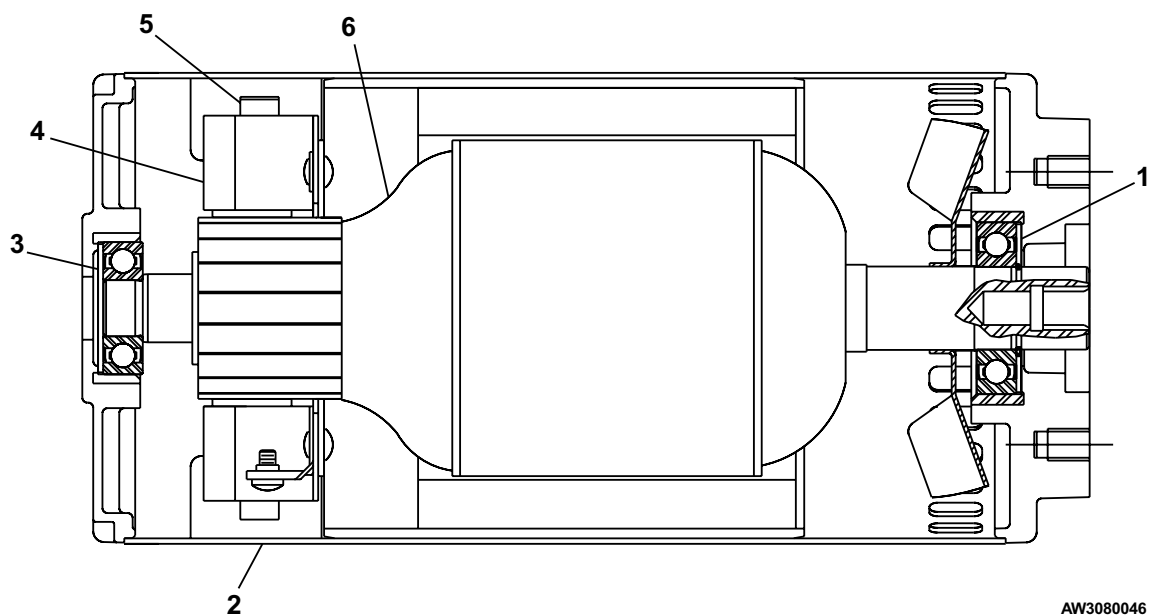
item	part no	qty	description
	0360811	1	Controller, upper control box
	3020176	1	Handle kit - (kit includes items 1, 2, 3 and 4)
	5560591	1	Hardware kit - (kit includes items 17 and 18)
1	3020184	1	Handle half, front
2	3020185	1	Handle half, back
3	3020186	1	Gasket
4	5560594	4	Assembly screw
5	3020177	1	Side mount nut
6	3020178	1	Trigger lever
7	3020179	1	Rocker
8	3020180	1	Push button, side mounted
9	3020181	1	Handle coupling
10	3020182	1	Coupling setscrew
11	3020183	2	Microswitch
12	3020187	1	Axle rocker
13	3020188	3	Microswitch
14	3020189	1	Terminal board
15	3020190	1	Detent assembly
16	3020191	3	Insulator
17	5560592	1	Trigger axle screw
18	5560593	1	Trigger axle nut
19	8150119	1	Rocker boot
20	8150129	1	Insulator
21	8150131	1	Replacement boot
22	8150136	1	Adapter plate



AW0360811

<https://truckmanualshub.com/>
DC electric motor, Leeson

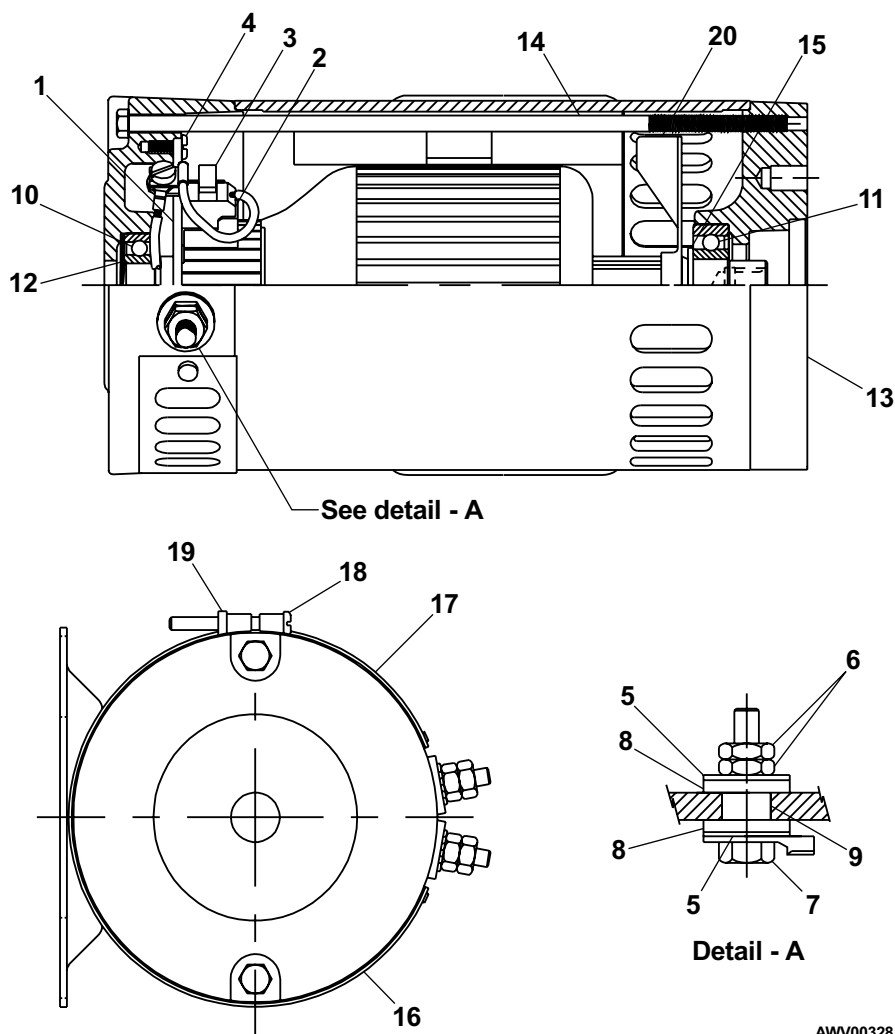
item	part no	qty	description
	3080046	1	Electric motor - 24 volt DC - Leeson
1	3080064	1	Bearing
2	3080065	1	Brush/plate
3	3080066	1	Bearing
4	3080067	2	Brush
5	3080068	1	Spring
6	3080069	1	Arm/shaft



AW3080046

<https://truckmanualshub.com/>
DC electric motor, Ohio

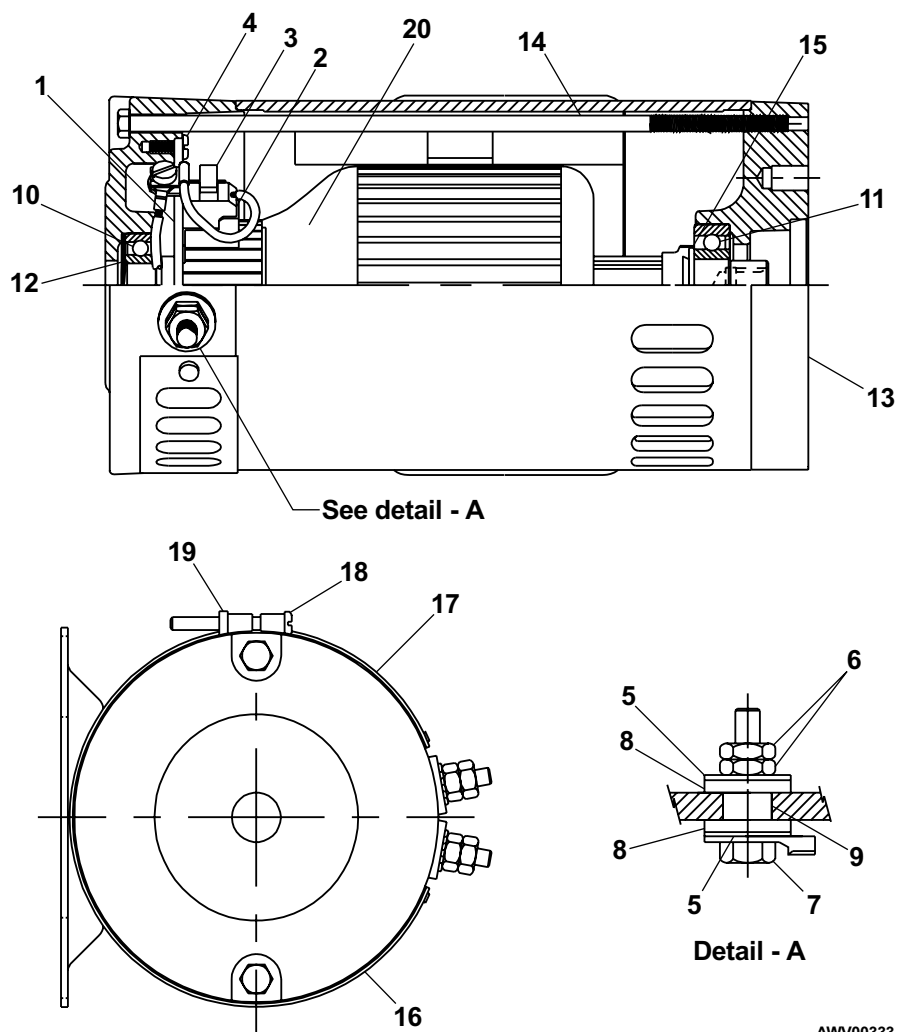
item	part no	qty	description
	3080046	1	Electric motor - 24 volt DC - Ohio
1	3080049	1	Brush/ring, complete
2	3080050	4	Brush
3	3080051	4	Brush spring
4	5560585	2	Machine screw #10-24 x 1/2 inch long pan head
5	5560586	4	Washer 3/8 star tooth lock
6	5560587	4	Nut 3/8-16 heavy hex jam
7	970509	2	Capscrew 3/8-16 x 2 inch long hex head grade 5
8	3080052	4	Insulator washer
9	3080053	2	Insulator
10	3080054	1	Bearing
11	3080055	1	Bearing
12	3080056	1	Bearing spring washer
13	3080057	1	Pulley end cover
14	5560588	2	Thru bolt
15	3080058	1	Retaining ring
16	3080059	1	Brush inspection cover
17	3080060	1	Brush inspection cover
18	5560589	1	Machine screw #10-32 x 3/4 inch long pan head
19	5560590	1	Nut #10-24 square
20	3080061	1	Fan



AWV00328

<https://truckmanualshub.com/>
DC electric motor, EE rated

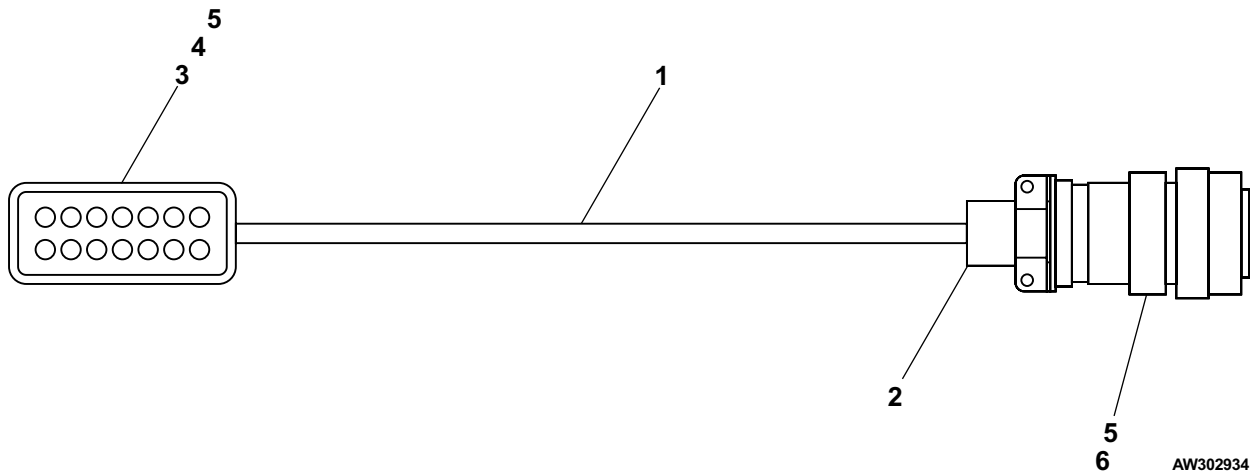
item	part no	qty	description
	3080081	1	Electric motor - 24 volt DC, EE rated - Ohio
1	3080083	1	Brush/ring, complete
2	3080084	4	Brush
3	3080051	4	Brush spring
4	5560585	2	Machine screw #10-24 x 1/2 inch long pan head
5	5560601	4	Washer 5/16 star tooth lock
6	5560600	4	Nut 5/16-18 heavy hex jam
7	970299	2	Capscrew 5/16-18 x 2 inch long hex head grade 5
8	3080052	4	Insulator washer
9	3080053	2	Insulator
10	3080054	1	Bearing
11	3080055	1	Bearing
12	3080056	1	Bearing spring washer
13	3080057	1	Pulley end cover
14	5560588	2	Thru bolt
15	3080058	1	Retaining ring
16	3080085	1	Brush inspection cover
17	3080086	1	Brush inspection cover
18	5560589	1	Machine screw #10-32 x 3/4 inch long pan head
19	5560590	1	Nut #10-24 square
20	3080087	1	Armature, complete



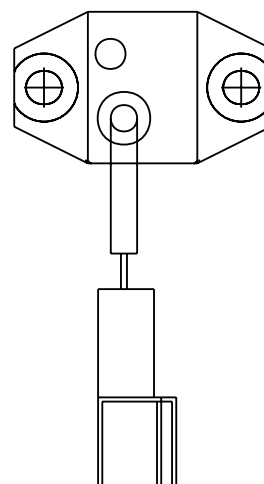
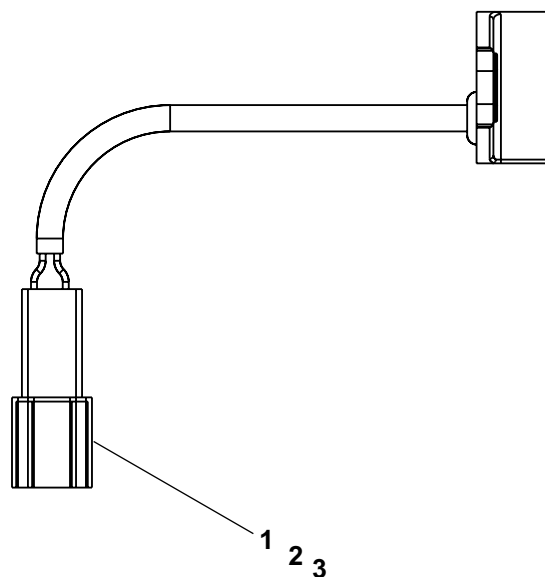
AWV00333

<https://truckmanualshub.com/>
Platform control cable

item	part no	qty	description
1	302934	1	Platform control cable
2	3049818	1	Cable - (not sold separately)
3	3049813	1	Shrink warp x 3 inch long
4	3049814	1	Connector 12 pin
5	3040342	26	Lock wedge 12 pin plug
6	3049861	1	Socket contact
			Connector, 14 pin plug

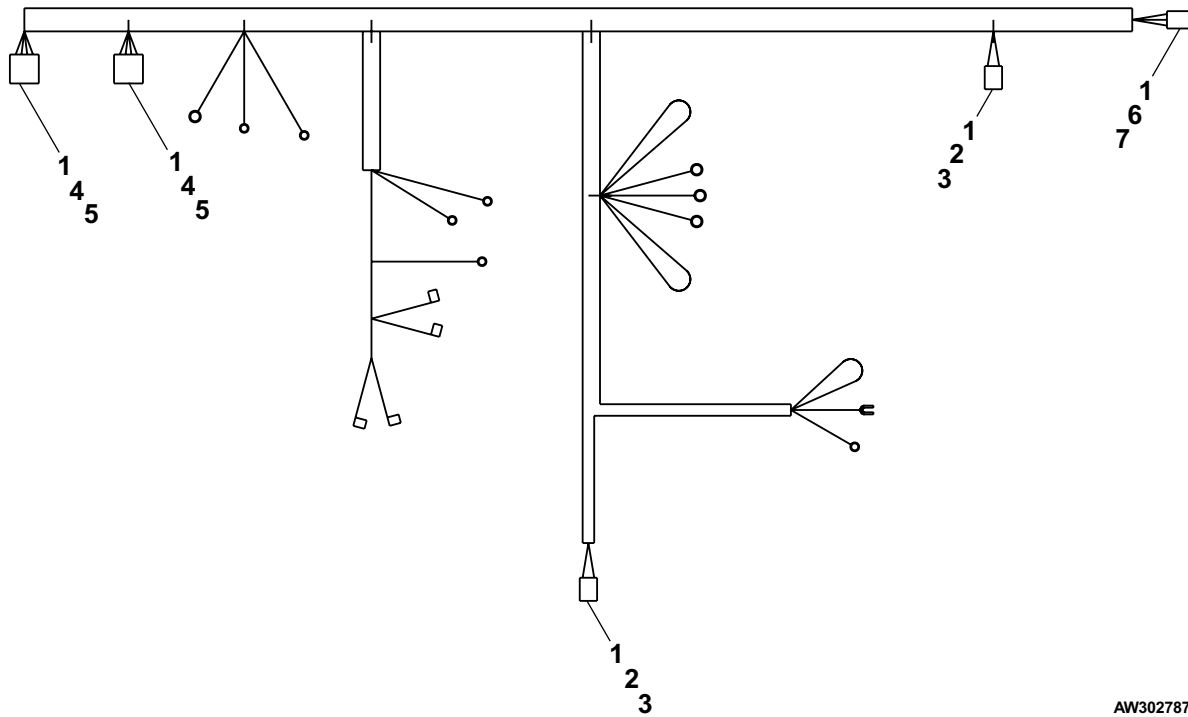


item	part no	qty	description
	302802	1	Proximity switch
1	3049804	1	Connector 2 pin
2	3049808	1	Lock wedge 2 pin plug
3	3049806	2	Pin 16/18 wire



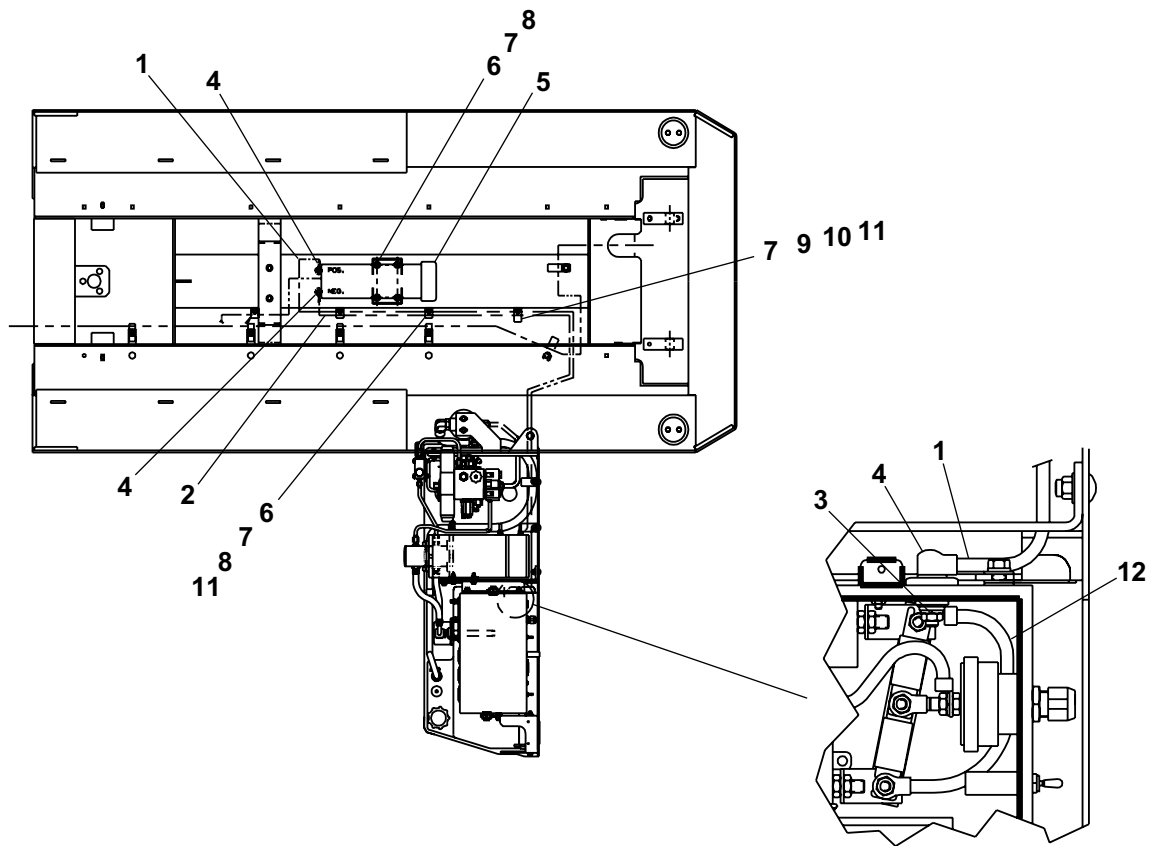
AW302802

item	part no	qty	description
	302787	1	Wire harness, main
1	3040342	31	Socket contact
2	3049803	2	Connector 2 pin
3	3049807	2	Lock wedge 2 pin plug
4	3049813	2	Connector 12 pin
5	3049814	2	Lock wedge 12 pin plug
6	3049820	1	Contact plug, 3 contact
7	3049822	1	Contact plug wedge, 3 contact



AW302787

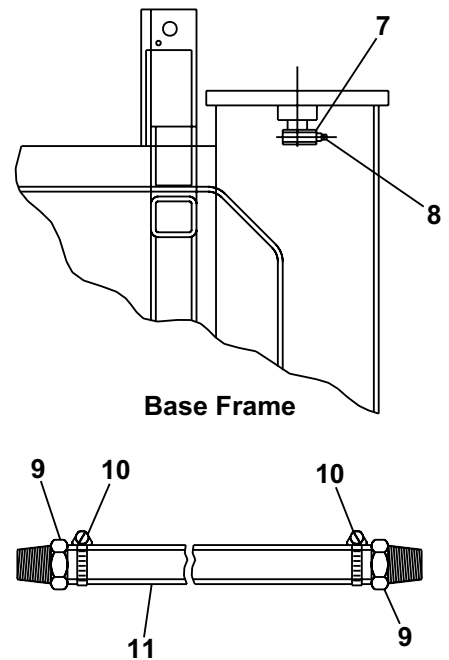
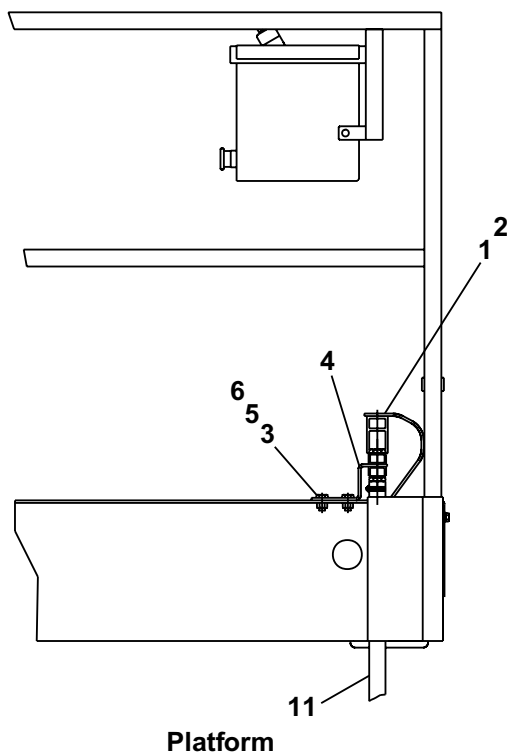
item	part no	qty	description
1	301744	1	Cable, red
2	302758	1	Cable, black
3	302629	1	Feed thru stud, battery
4	3040268	3	Insulator boot
5	455536	1	Motor generator
6	970269	4	Capscrew 5/16-18 x 1-1/4 inch long hex head grade 5
7	5560031	4	Nut 5/16-18 self locking
8	986269	9	Washer 5/16 medium flat
9	5560350	4	Carriage bolt 3/8-16 x 1 inch long
10	5560033	4	Nut 3/8-16 self locking
11	5093004	3	Clamp
12	584926	1	Cable, black



AWM00334

Air line to platform

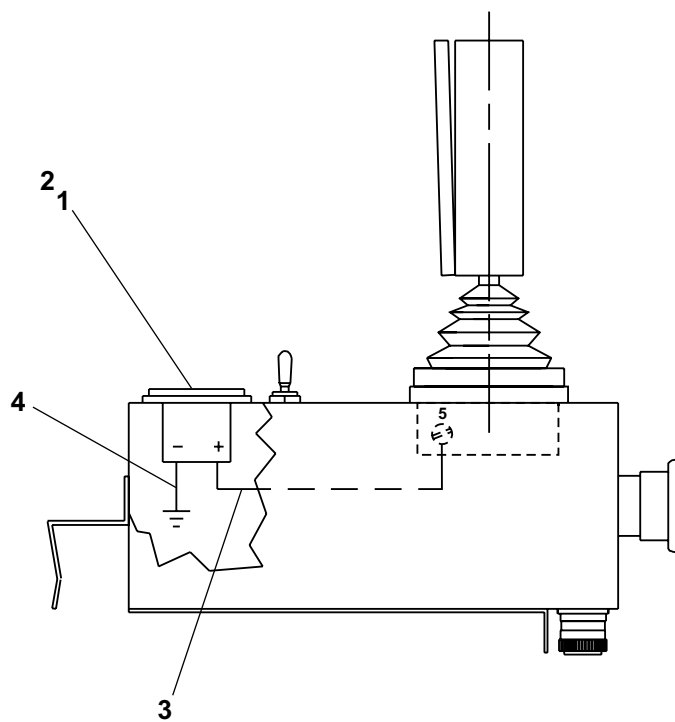
item	part no	qty	description
1	019047	1	Coupler, quick disconnect
2	019067	1	Dust cap, coupler
3	984529	2	Nut sert 1/4-20
4	599624-99	1	Bracket, air line mounting
5	970029	2	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
6	987099	2	Washer 1/4 medium lock
7	590144	1	Coupling, air line
8	019057	1	Coupler, quick disconnect nipple
9	563436	2	Fitting, 1/2 inch hose to 3/8 NPT
10	475346	2	Clamp
11	599984	1	Hose 1/2 inch low pressure x 441 inch long
12	5093008	14	Clamp



AW786023

<https://truckmanualshub.com/>
Battery condition indicator

item	part no	qty	description
1	487696	1	Gauge, battery condition indicator
2	7110031	1	O-ring
3	300802	1	Jumper wire
4	0181103	1	Jumper wire

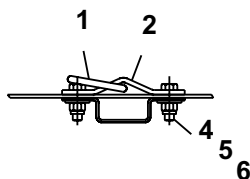
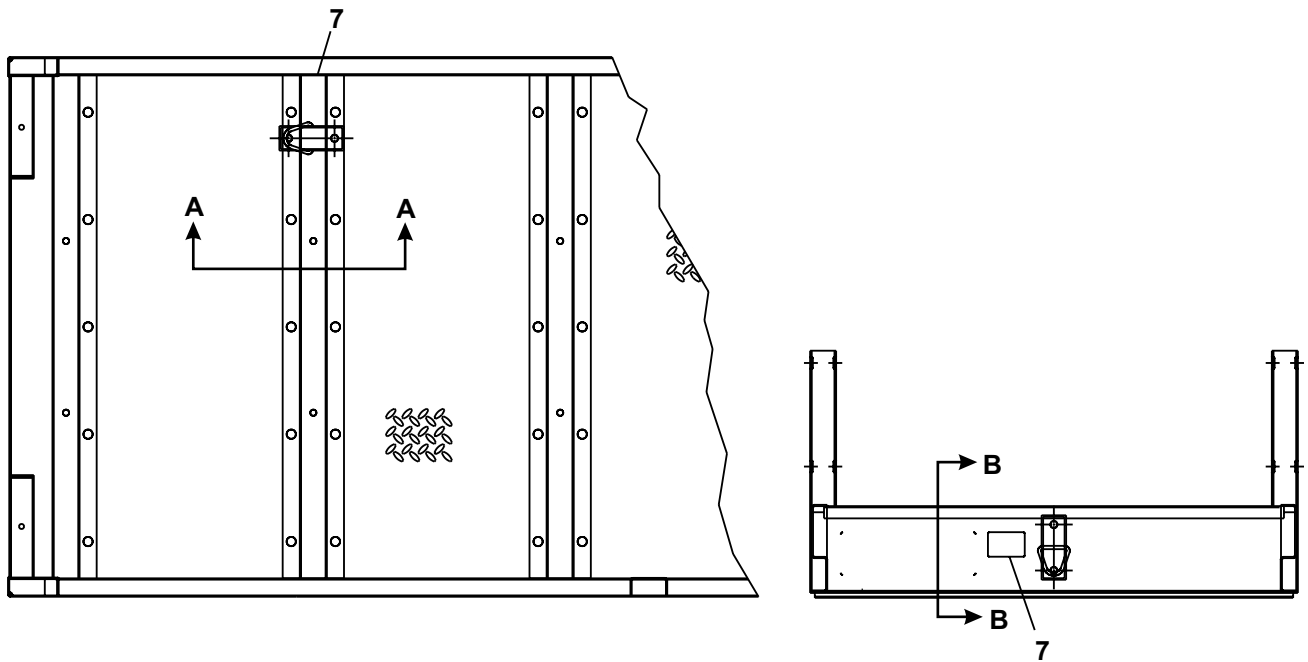


Upper control box

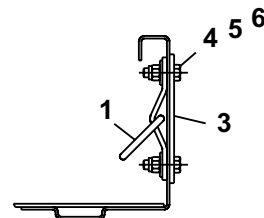
AW302850-1

<https://truckmanualshub.com/>
Dual lanyard attachment

item	part no	qty	description
1	0360892	2	Tie down D ring
2	0360891	2	Bracket, lanyard attachment
3	0360893	1	Plate, lanyard attachment
4	5560704	4	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 8
5	986299	4	Washer 3/8 medium flat
6	5560033	4	Nut 3/8-16 self locking
7	0150448	2	Decal, attach fall restraint



SECTION A-A

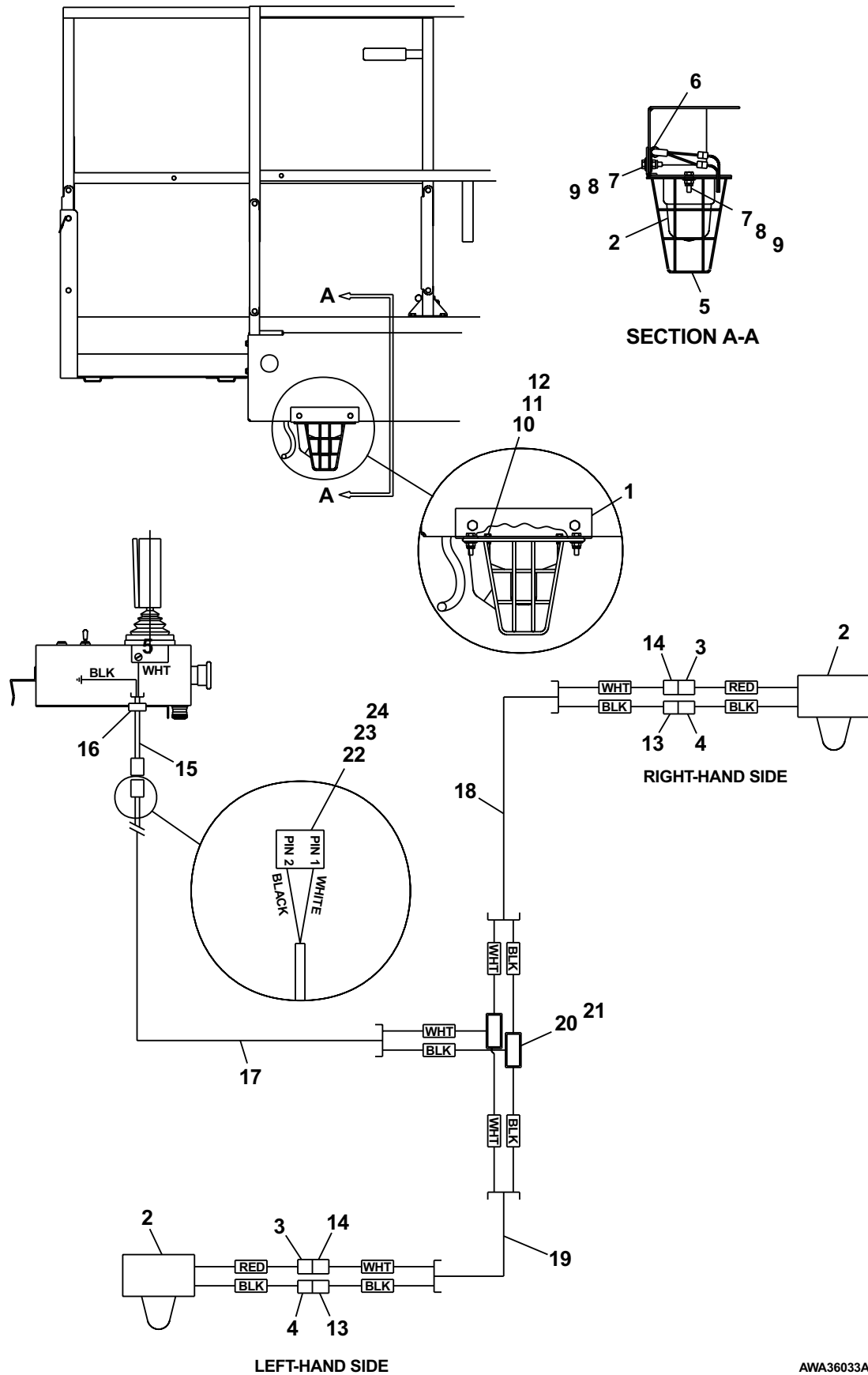


SECTION B-B

AWA36030B-3

<https://truckmanualshub.com/>
Dual flashing lights

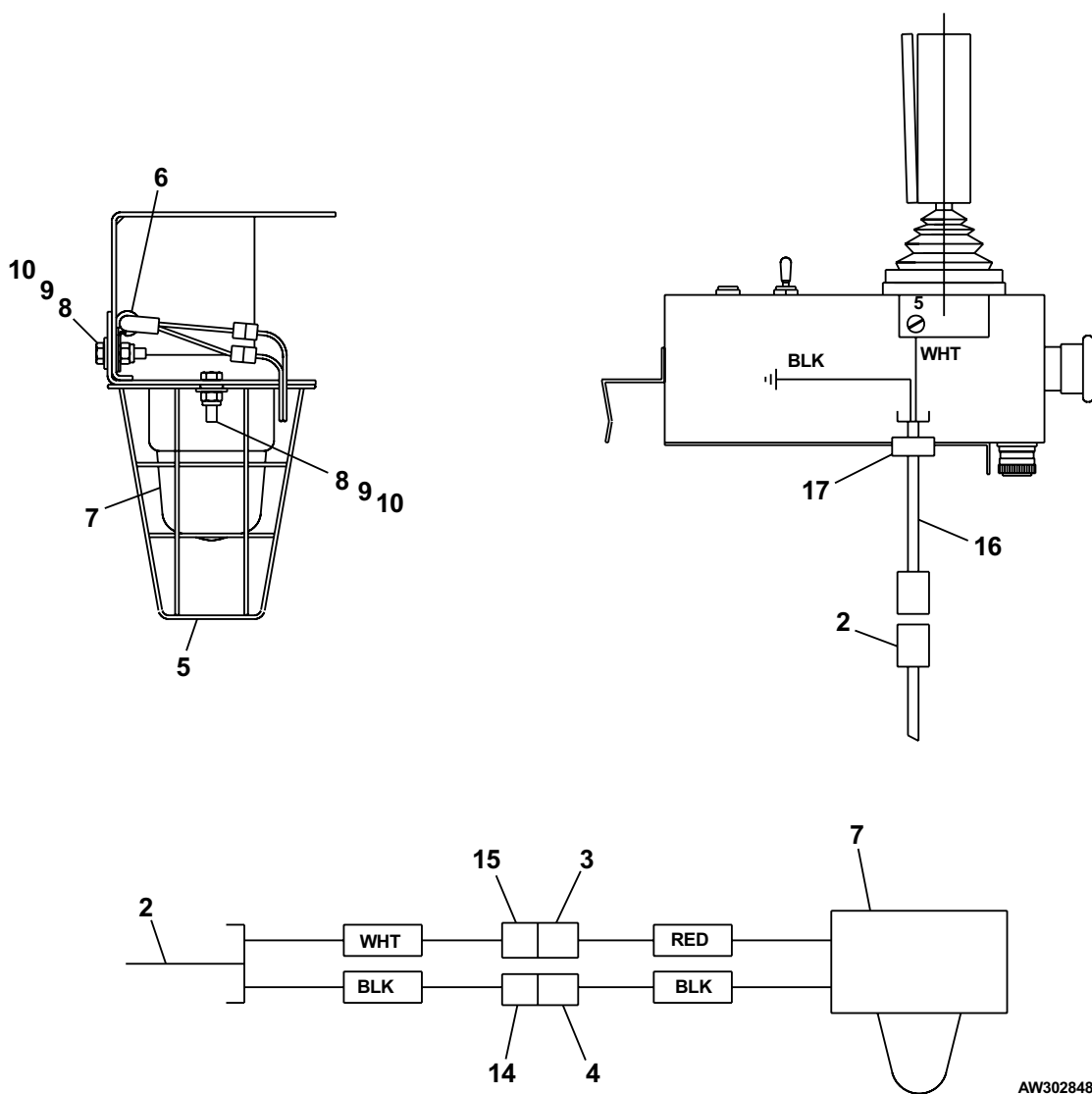
item	part no	qty	description
1	301494-99	2	Angle, light mount
2	564136	2	Flashing light, yellow
	300159	2	Flashing light, blue
3	3040082	2	Terminal .250 tab male slip-on fully insulated 16/14 wire
4	3040083	2	Terminal .250 tab female slip-on fully insulated 16/14 wire
5	487686	2	Guard, flashing light
6	5093018	2	Clamp
7	5560004	8	Nut 1/4-20 self locking
8	970049	8	Capscrew 1/4-20 x 1 inch long hex head grade 5
9	5569927	16	Washer 1/4 wide flat
10	974689	4	Machine screw #10-24 x 3/4 inch long round head
11	5560034	4	Nut #10-24 self locking
12	986009	8	Washer #10 medium flat
13	3040046	2	Terminal .250 tab male slip-on fully insulated 22/18 wire
14	3040047	2	Terminal .250 tab female slip-on fully insulated 22/18 wire
15	302849	1	Wire harness, motion lights
16	3049809	1	Strain relief
17	3011802	1	Wire 18 gauge, 2 conductor x 79 inch long
18	3011802	1	Wire 18 gauge, 2 conductor x 8 inch long
19	3011802	1	Wire 18 gauge, 2 conductor x 45 inch long
20	3044070	2	Terminal butt connector insulated 22/18 wire
21	3090012	2	Heat shrink tube, 3/8 inch x 2 inch long
22	3049803	1	Connector 2 pin
23	3040342	2	Socket contact
24	3049807	1	Lock wedge 2 pin plug



AWA36033A

Flashing light

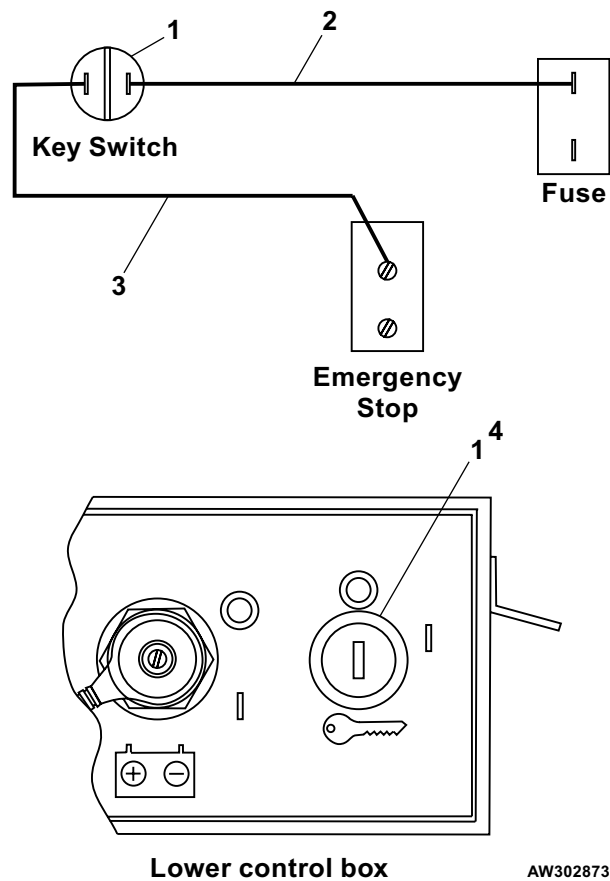
item	part no	qty	description
1	301494-99	1	Angle, light mount
2	302847	1	Wire harness, flashing light
3	3040082	1	Terminal .250 tab male slip-on fully insulated 16/14 wire
4	3040083	1	Terminal .250 tab female slip-on fully insulated 16/14 wire
5	487686	1	Guard, flashing light
6	5093019	2	Clamp
7	564136	1	Flashing light, yellow
	300159	1	Flashing light, blue
8	5560004	4	Nut 1/4-20 self locking
9	970049	4	Capscrew 1/4-20 x 1 inch long hex head grade 5
10	986019	8	Washer 1/4 wide flat
11	974689	2	Machine screw #10-24 x 3/4 inch long round head
12	5560034	2	Nut #10-24 self locking
13	986009	4	Washer #10 medium flat
14	3040046	1	Terminal .250 tab male slip-on fully insulated 22/18 wire
15	3040047	1	Terminal .250 tab female slip-on fully insulated 22/18 wire
16	302849	1	Wire harness, motion lights
17	3049809	1	Strain relief



AW302848

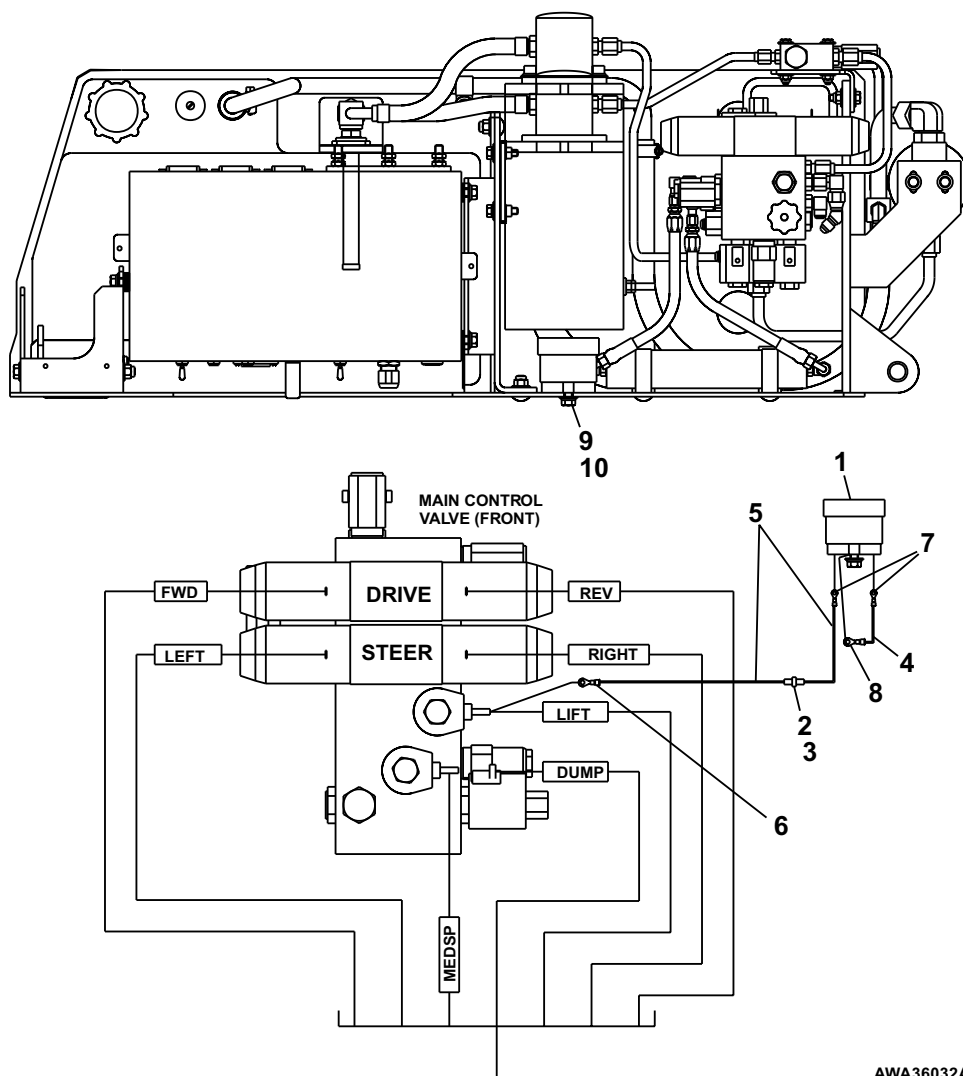
Key switch

item	part no	qty	description
1	486756	1	Switch, key type
	488216	1	Replacement key
2	302874	1	Jumper wire
3	302859	1	Jumper wire
4	480006	1	O-ring

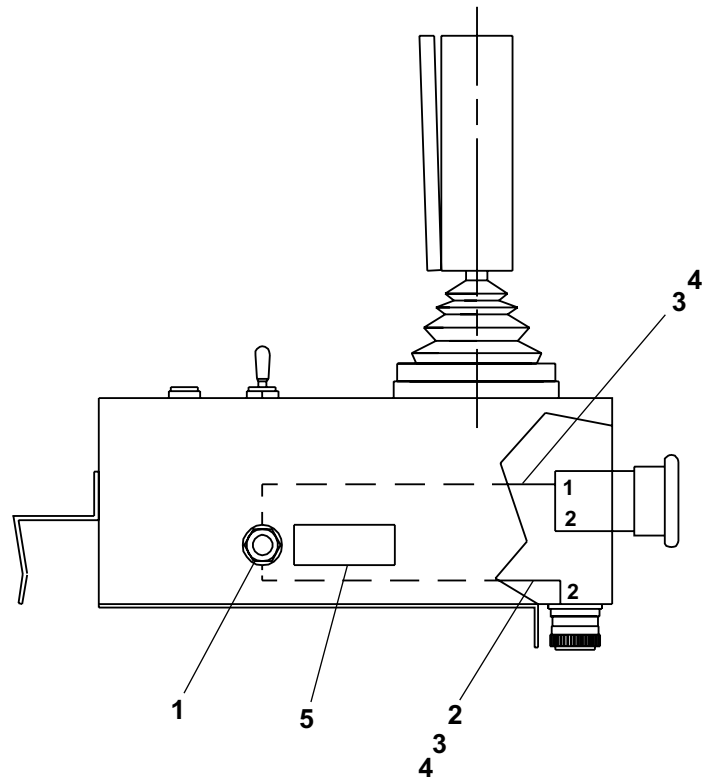


AW302873

item	part no	qty	description
1	3040593	1	Alarm
2	3040038	1	Fuse holder, in-line
3	3040039	1	Fuse, 10 amp capacity
4	3011861	1	Wire red 18 gauge single conductor x 2 inch long
5	3011851	1	Wire black 18 gauge single conductor x 22 inch long
6	3044146	1	Terminal #10 ring tongue insulated 22/18 wire
7	3044142	2	Terminal #10 ring tongue insulated 22/18 wire
8	3049952	1	Terminal 1/4 ring tongue insulated 22/18 wire
9	970029	1	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
10	987099	1	Washer 1/4 medium lock



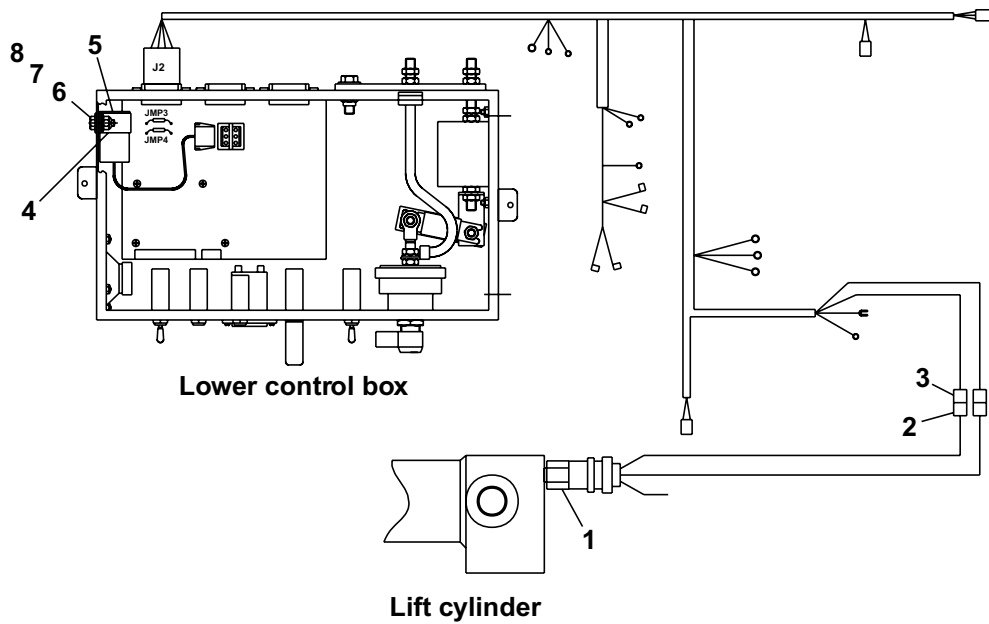
item	part no	qty	description
1	560332	1	Switch, push button
2	3040341	1	Pin, contact
3	960359	1	Terminal, #6 spade 18-14 wire
4	964749	1	Wire, 16 gauge single conductor x 30 inch long
5	0071269	1	Placard, horn



Upper control box

AW302850-2

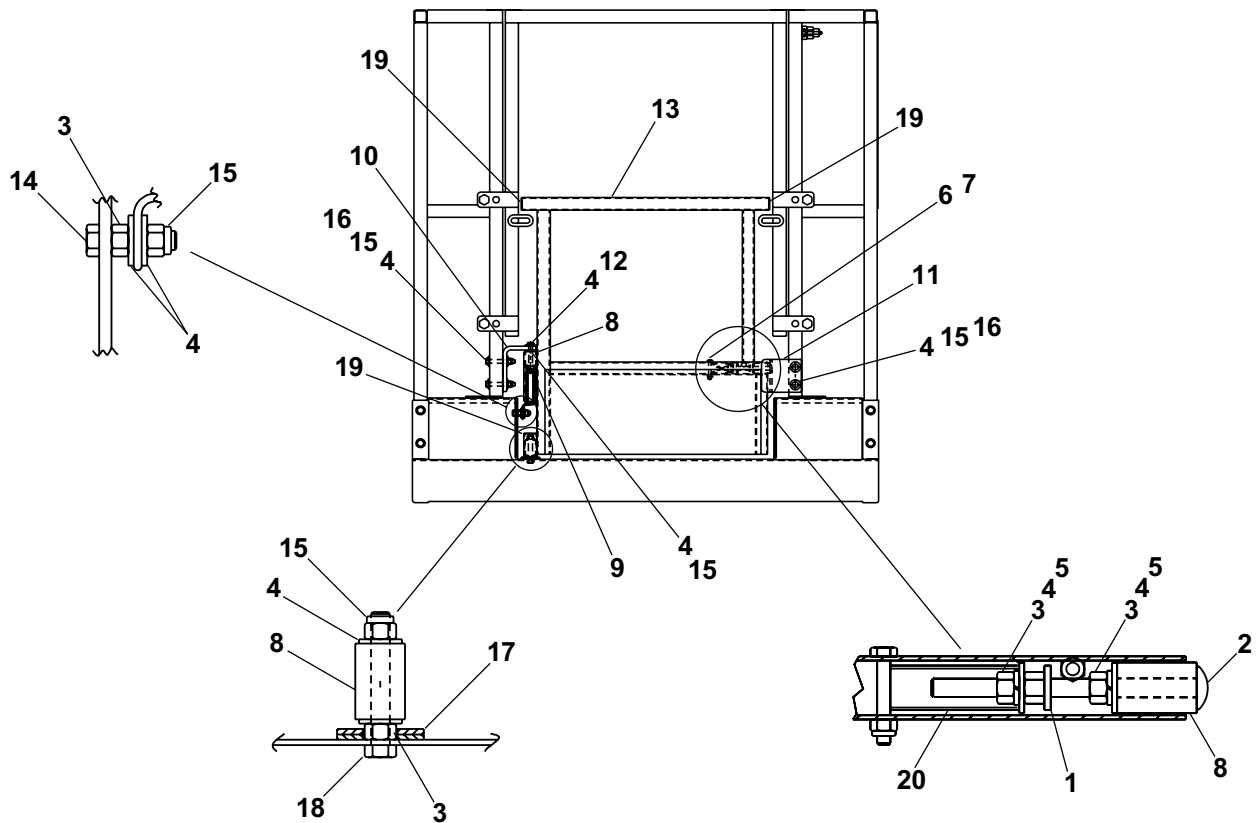
item	part no	qty	description
1	3020115	1	Pressure switch, 625-3500 psi
2	3040046	2	Terminal .250 tab male slip-on fully insulated 22/18 wire
3	3040047	1	Terminal .250 tab female slip-on fully insulated 22/18 wire
4	475496	1	Clamp
5	560658	1	Overload module
6	970029	2	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
7	986019	2	Washer 1/4 medium flat
8	5560004	1	Nut 1/4-20 self locking



AWA36007B

<https://truckmanualshub.com/>
Platform entry gate, fixed rails

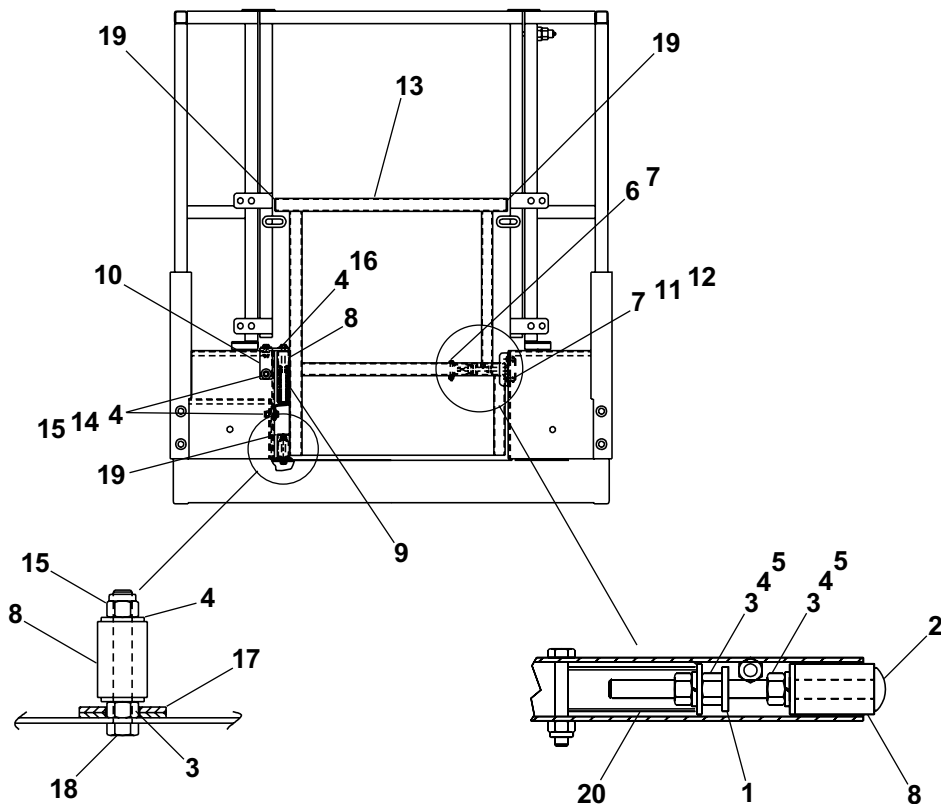
item	part no	qty	description
1	0180821	1	Bolting plate
2	5560353	1	Carriage bolt 3/8-16 x 5 inch long
3	984109	4	Nut 3/8-16 hex
4	986269	16	Washer 5/16 medium flat
5	987099	2	Washer 1/4 medium lock
6	5569886	2	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
7	5560004	2	Nut 1/4-20 self locking
8	302486	3	Roller, sliding end rail
9	302590	1	Torsion spring
10	302603-99	1	Gate hinge angle
11	302606-99	1	Gate detent bracket
12	5560106	1	Capscrew 3/8-16 x 2-3/4 inch long hex head grade 5
13	302599-99	1	Platform entry gate
14	972479	1	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
15	5560033	7	Nut 3/8-16 self locking
16	970519	4	Capscrew 3/8-16 x 2-1/4 inch long hex head grade 5
17	986019	2	Washer 1/4 medium flat
18	5560247	2	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5 full thread
19	468886	3	End cap, 1-1/2 inch square plastic
20	5530009	1	Compression spring



AWM00316

Platform entry gate, folding rails

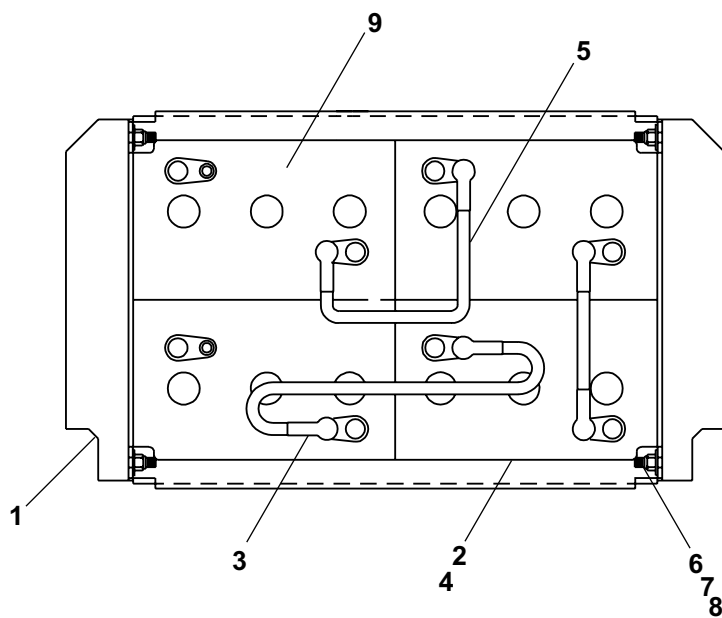
item	part no	qty	description
1	0180821	1	Bolting plate
2	5560353	1	Carriage bolt 3/8-16 x 5 inch long
3	984109	3	Nut 3/8-16 hex
4	986269	9	Washer 5/16 medium flat
5	987099	2	Washer 1/4 medium lock
6	5569886	2	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
7	5560004	4	Nut 1/4-20 self locking
8	302486	3	Roller, sliding end rail
9	302590	1	Torsion spring
10	302604-99	1	Gate hinge bracket
11	302570-99	1	Gate detent bracket
12	972569	2	Carriage bolt 1/4-20 x 3/4 inch long
13	302599-99	1	Platform entry gate
14	970469	3	Capscrew 3/8-16 x 1 inch long hex head grade 5
15	5560033	5	Nut 3/8-16 self locking
16	970519	1	Capscrew 3/8-16 x 2-1/4 inch long hex head grade 5
17	5560678	2	Washer 5/8 medium flat
18	5560247	1	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5 full thread
19	468886	3	End cap, 1-1/2 inch square plastic
20	5530009	1	Compression spring



AWM00317

Spare battery tray

item	part no	qty	description
1	302458-99	1	Removable tray
2	302457-99	2	Battery hold down angle
3	3040269	8	Insulator boot
4	302547	2	Angle, plastic battery insulator
5	584926	3	Battery wire
6	5560350	4	Carriage bolt 3/8-16 x 1 inch long
7	5560033	4	Nut 3/8-16 self locking
8	986299	4	Washer 3/8 medium flat
9	3050009	4	Battery, 6 volt DC - 220 amp hour
	3050027	4	Battery, 6 volt DC - 240 amp hour



AW302612

B

Base frame, 1-3
 Battery charger, standard - Lester, 1-15, 3-7
 Battery charger, world - Lester, 1-15, 3-7
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 Battery, 6 volt DC - 220 amp hour, 4-15
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 Bracket, brake cylinder, 1-3
 Bracket, contactor, 3-2
 Bracket, emergency bleed down, 1-16, 1-20
 Bracket, power plate, 3-2
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 Decal, danger safety prop, 1-30
 Decal, danger shearing/crushing, 1-30
 Decal, danger swing down rails, 1-30
 Decal, danger tipover hazard, 1-30
 Decal, danger tipover/electrical hazard, 1-30
 Decal, danger towing instructions, 1-30
 Decal, do not alter, 1-30
 Decal, emergency stop, 1-30
 Decal, fork lift here, 1-30
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 Decal, hydraulic oil level, 1-30
 Decal, hydraulic schematic, 1-30
 Decal, lower controls, 1-30
 Decal, lube recommendations, 1-30
 Decal, OmniQuip logo, 1-30

Decal, operating manual enclosed, 1-30
 Decal, pinch point, 1-30
 Decal, S2545 logo, 1-30
 Decal, Snorkel brand logo, 1-30
 Decal, Snorkel logo, 1-30
 Decal, warning stripes, 1-30
 Detent pin, 1-22, 1-25
 Diagnostic nipple, 1-10, 2-2
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E

Electric motor - 24 volt DC, 1-9, 3-9, 3-10
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LIMITED WARRANTY

Snorkel warrants each new machine manufactured and sold by it to be free from defects in material and workmanship for a period of one (1) year from date of delivery to a Customer or for one year after the machine has been placed in first service in a Dealer rental fleet, whichever comes first. Any part or parts which, upon examination by the Snorkel Service Department, are found to be defective, will be replaced or repaired, at the sole discretion of Snorkel, through its local Authorized Dealer at no charge.

Snorkel further warrants the structural components; specifically, the mainframe chassis, turntable, booms and scissor arms, of each new machine manufactured by it to be free from defects in material and workmanship for an additional period of four (4) years. Any such part or parts which, upon examination by the Snorkel Service Department, are found to be defective will be replaced or repaired by Snorkel through its local Authorized Dealer at no charge; however, any labor charges incurred as a result of such replacement or repair will be the responsibility of the Customer or Dealer.

The Snorkel Service Department must be notified within forty-eight (48) hours of any possible warranty situation during the applicable warranty period. Personnel performing warranty repair or replacement must obtain specific approval by Snorkel Service Department prior to performing any warranty repair or replacement.

Customer and Dealer shall not be entitled to the benefits of this warranty and Snorkel shall have no obligations hereunder unless the "Pre-Delivery and Inspection Report" has been properly completed and returned to the Snorkel Service Department within ten (10) days after delivery of the Snorkel product to Customer or Dealer's rental fleet. Snorkel must be notified, in writing, within ten (10) days, of any machine sold to a Customer from a Dealer's rental fleet during the warranty period.

At the direction of the Snorkel Service Department, any component part(s) of Snorkel products to be replaced or repaired under this warranty program must be returned freight prepaid to the Snorkel Service Department for inspection. All warranty replacement parts will be shipped freight prepaid (standard ground) from the Snorkel Service Department or from Snorkel's Vendor to Dealer or Customer.

REPLACEMENT PARTS WARRANTY

Any replacement or service part made or sold by Snorkel is not subject to the preceding **Limited Warranty** beyond the normal warranty period of the machine upon which the part was installed.

THIS WARRANTY EXCLUDES AND SNORKEL DOES NOT WARRANT:

1. Engines, motors, tires and batteries which are manufactured by suppliers to Snorkel, who furnish their own warranty. Snorkel will, however, to the extent permitted, pass through any such warranty protection to the Customer or Dealer
2. Any Snorkel product which has been modified or altered outside Snorkel's factory without Snorkel's written approval, if such modification or alteration, in the sole judgment of Snorkel's Engineering and/or Service Departments, adversely affects the stability, reliability or service life of the Snorkel product or any component thereof.
3. Any Snorkel product which has been subject to misuse, improper maintenance or accident. "Misuse" includes but is not limited to operation beyond the factory-rated load capacity and speeds. "Improper maintenance" includes but is not limited to failure to follow the recommendations contained in the Snorkel Operation, Maintenance, Repair Parts Manuals. Snorkel is not responsible for normal maintenance, service adjustments and replacements, including but not limited to hydraulic fluid, filters and lubrication.
4. Normal wear of any Snorkel component part(s). Normal wear of component parts may vary with the type application or type of environment in which the machine may be used; such as, but not limited to sandblasting applications.
5. Any Snorkel product that has come in direct contact with any chemical or abrasive material.
6. Incidental or consequential expenses, losses, or damages related to any part or equipment failure, including but not limited to freight cost to transport the machine to a repair facility, downtime of the machine, lost time for workers, lost orders, lost rental revenue, lost profits or increased cost.

This warranty is expressly in lieu of all other warranties, representations or liabilities of Snorkel, either expressed or implied, unless otherwise amended in writing by Snorkel's President, Vice President-Engineering, Vice President-Sales or Vice President-Marketing.

SNORKEL MAKES NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THIS LIMITED WARRANTY. SNORKEL MAKES NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND DISCLAIMS ALL LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO INJURY TO PERSONS OR PROPERTY.

The Customer shall make all warranty claims through its local Authorized Dealer and should contact the Dealer from whom the Snorkel product was purchased for warranty service. Or, if unable to contact the Dealer, contact the Snorkel Service Department for further assistance.

Effective July 1995

Maintenance information

The parts drawings located in the repair parts sections, are designed for use as a guide for proper disassembly of the machine and components as well as for parts replacement. Always refer to the hydraulic system installation drawings and the electrical wiring diagram before removing or disassembling associated parts.

CAUTION

Do not attempt to disconnect or remove any hydraulic line before reading and understanding all text concerning the system hydraulics. In most cases, disassembly of the machine will be obvious from the illustration.

When disassembling or reassembling components, complete the procedural steps in sequence. Do not partially disassemble or assemble one part, then start on another. Always check your work to assure that nothing has been overlooked.

The following list is a gentle reminder when disassembling or assembling the machine.

- ✔ Always be conscious of weight.
- ✔ Never attempt to lift heavy objects without the aid of a mechanical device.
- ✔ Do not allow heavy objects to rest in an unstable condition.
- ✔ Always make sure work platform is in stowed position - blocked or the weight removed by a suitable lifting device before disconnecting the hydraulic hose from the motor/pump unit to the lift cylinder.
- ✔ When raising a portion of the machine, be sure that adequate blocking is properly positioned - Do not depend on lifting device to hold and secure weight.
- ✔ If a part resists removal, check to see if all fasteners, electrical wiring, hydraulic lines, etc., have been removed or that other parts are not interfering.

Parts should be thoroughly inspected before restoring to service at the time of reassembly. Burrs, nicks or scratches may be removed from machined surfaces by honing or polishing with #600 crocus cloth, followed by a thorough cleaning in an approved cleaning solvent, and blown dry with compressed air. Do not alter the contour of any part. If this operation does not restore the part to a serviceable condition, replace the part. Replace all O-rings, seals, and gaskets at reassembly. Use new roll pins or cotter pins. Dip all packing rings and seals in hydraulic oil before reassembling in cylinder and manifold installations. Replace any part having imperfect threads. In general, units that have been disassembled can be reassembled by reversing the order of disassembly.

Remember that the service life of a machine can be increased by keeping dirt and foreign materials out of the vital components. Precautions have been taken to safeguard against this; shields, covers, seals and filters are provided to keep air and oil supplies clean; however, these items must be maintained on a scheduled basis in order to function properly.

At any time air or oil lines are disconnected, clean surrounding areas as well as the opening and fittings themselves. As soon as a line or component is disconnected, cap or cover all openings to prevent the entry of dirt or foreign materials.

New parts should remain in their container until they are ready to be used.

Clearly mark or tag hydraulic lines and electrical wiring connections when disconnecting or removing them from unit. This will assure that they are correctly reinstalled.

Proper assembly is critical to the successful rebuilding of any unit. Carefully inspect any parts which are to be reused. If in doubt, replace.

“SAFETY FIRST” is a good slogan.

Replace any guards and protective devices that have been removed to carry out maintenance and repair work.

Snorkel has established a Preventive Maintenance Schedule that includes Daily Maintenance (Operator's Inspection), 90 Day or 150 Hour (frequent) Maintenance and Yearly or 500 Hour (annual) Maintenance, to detect any defective, damaged or improperly secured parts and provide information regarding lubrication and other minor maintenance items.

The Maintenance Schedule following, outlines the requirements of these maintenance checks for each time interval. The Operator's Daily Maintenance and inspection must be performed by a trained operator. All other maintenance and inspections must be performed by a trained service technician only.

Note that the 90 Day or 150 hour (frequent) and yearly or 500 hour (annual) Maintenance, require use of the Preventive Inspection Maintenance Checklist to pinpoint all inspection items. Retain a copy of these forms for your records.

They also require that all placards and decals on the unit are to be inspected.

All placards and decals must be in place and legible. Use the placards installation drawing and parts listing in the repair parts section 1 of this manual to check these placards and decals.

Snorkel recommends that you make additional copies of the Preventive Inspection Maintenance Checklist forms for your use in performing these inspections.

⚠ DANGER

Failure to perform the Preventive Maintenance at the intervals outlined in the Maintenance Schedule may result in a unit being operated with a defect that could result in INJURY or DEATH of the unit operator. Do not allow a unit to be operated that has been found to be defective.

Repair all defects before returning the unit to service.

Daily maintenance - (operator's inspection)

Components	Service Required
Operator's manual	In document holder
Battery fluid level	Proper level
Battery Terminals	Clean, connections tight
Battery Charger	Proper operation
Cables and wiring harness	No wear or physical damage
Hydraulic fluid level	Check fluid level
Hoses, tubes, and fittings	No leaks
Free-wheeling valve	Fully closed
Tires and wheels	Good condition
Parking brakes	Proper cam orientation
Ground strap	In place and securely fastened
Operating controls	Proper operation
Emergency stop	Shuts off controls
Lowering alarm	Proper operation
Pothole protector interlock	Proper operation
Level sensor interlock	Proper operation
Emergency lowering	Proper operation
Safety prop	No damage or deformation
Flashing light	Proper operation
Weldments	No damage or deformation
Rollers and slide blocks	Proper operation, no damage
Fasteners	In place and tight
Guardrail system	No damage or deformation
Platform extension	Proper operation
Operating controls	Proper operation
Emergency stop	Shuts off upper controls

Daily maintenance - (operator's inspection) continued

Components	Service Required
Lowering alarm	Sounds when platform lowers
Drive motion alarm	Sounds when platform moves
Battery condition indicator	Proper operation
Lanyard anchors	No damage or deformation
Horn	Sounds when activated
Electrical power outlet	Proper operation
Placards and decals	In place and readable

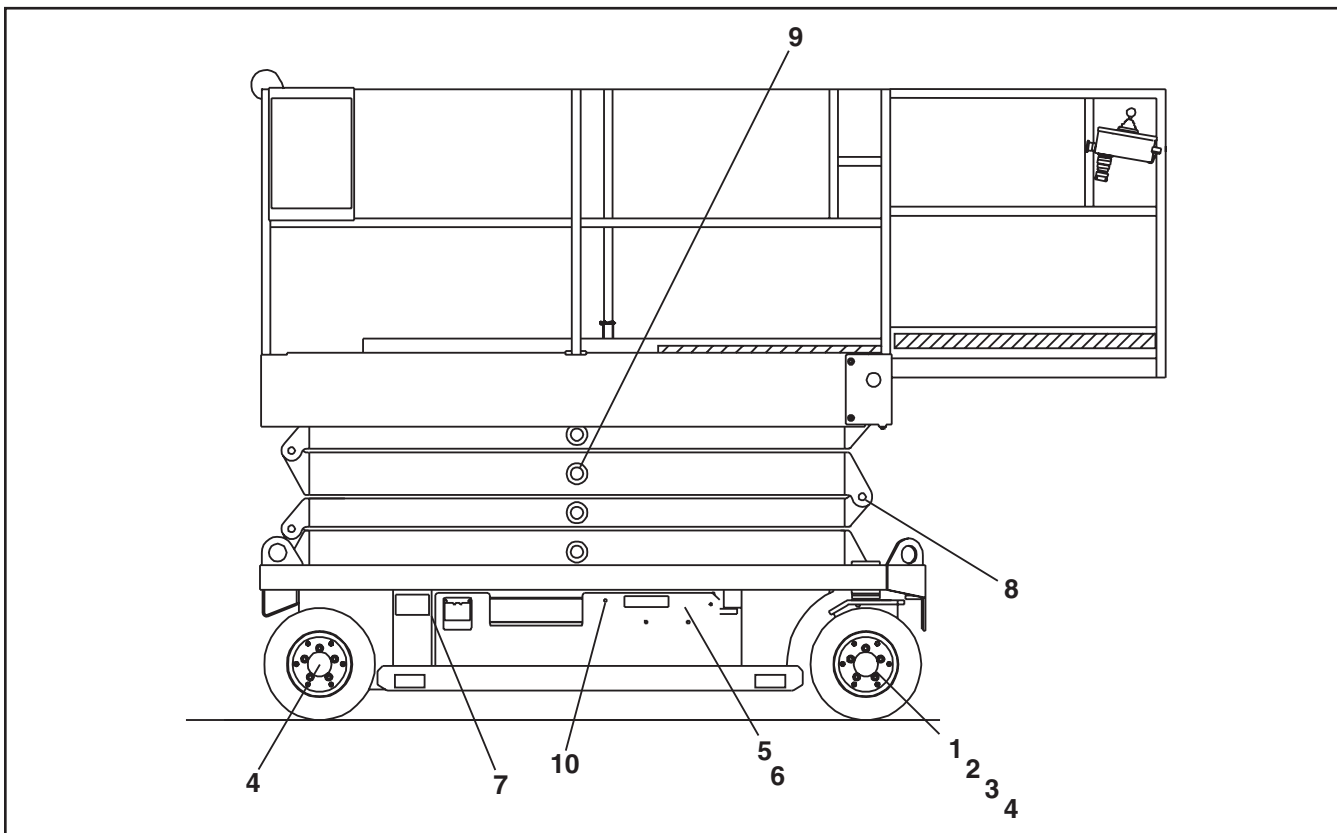
90 day or 150 hour maintenance - (trained service technician)

Components	Service Required	Recommended Lubricant or Further Instructions
Daily maintenance	Perform maintenance as per schedule	
Preventive inspection maintenance checklist	Perform inspection, complete form	Retain copy of checklist
Placards and decals inspection	Inspect using drawing and parts listing in section 1 (repair parts)	Replace any missing or unreadable decals/placards
Door hinges and latches	Lubricate	SAE 10W oil or spray lubricant
Batteries	Check specific gravity	1.260/1.275 at 80° F.
Platform lift capacity	Check if platform can lift maximum load	
Platform lift/lower speeds	Check smooth operation and speeds	
Safety prop	Check operation	
Hydraulic return filter	Check condition	Replace if dirty
Pothole protection interlock	Check operation per test on page 6	Remove from service and repair if machine does not pass test
Level sensor interlock	Check operation per test on page 6	
Charging system	Check operation	
Platform controller	Check smooth operation and speeds	
Scissor arm bearings	Check condition	Do not lubricate
Snap rings, steering yoke	Check operation and tightness	Replace if damaged

Yearly or 500 hour maintenance - (trained service technician)

Components	Service Required	Recommended Lubricant or Further Instructions
90 day or 150 hour maintenance	Perform maintenance per schedule	
Hydraulic oil reservoir	Clean and replace fluid	Above 10° Mobil DTE-13M Below 10° Mobil DTE-11M
Hydraulic return filter	Replace	After 1st. 50 hours, thereafter at recommended interval
Hydraulic pressures	Check pressures	
Platform controller	Check operation	
Base controls	Check operation	
Wheel bearings	Clean and repack	Conoco Super Sta #2 Above 32° Mobilgrease CM-P Below 32° Mobilgrease CM-L

Lubrication illustration



The illustration locates the lubrication points of the S2545.

Lubricants

Specific lubricants as recommended by Snorkel, should be used in maintaining your unit. If in doubt regarding the use of lubricants other than those listed, contact Snorkel Customer Service Department, St. Joseph Missouri, for evaluation and recommendation.

Anytime the work platform is elevated to perform maintenance work, properly position the safety prop as outlined on the safety prop decal.

▲ DANGER

DO NOT reach through scissors mechanism unless the safety prop is properly positioned. Injury or death could occur if the platform is not supported by the safety prop and should suddenly drop onto personnel performing maintenance work under the raised platform.

Refer to the above lubrication illustration for location of item numbers.

Pressure gun application

Service all fittings as indicated in the Maintenance Schedule and lubrication illustration. Wipe away all excess lubricant from exposed surfaces. Over lubrication can collect dirt and foreign matter which acts as an abrasive. Lubrication of accessory equipment should be in accordance with the manufacturer's recommendations.

King pins

King pins (item 1.): Pressure gun lubricate at recommended interval using lubricant as outlined in the maintenance schedule.

Tie rods

Tie rods (item 2.): Pressure gun lubricate at recommended interval using lubricant as outlined in the maintenance schedule.

Steer cylinder ends

Steer cylinder ends (item 3.): Pressure gun lubricate at recommended interval using lubricant as outlined in the maintenance schedule.

Wheel bearings

Wheel bearings (item 4.): Clean and repack wheel bearings on non-drive wheels yearly, (or every 500 hours of operation), using specific lubricants and outlined in the maintenance schedule.

Clean and repack wheel bearings following normal automotive procedures.

Note:

The wheel bearings used on drive wheels are sealed bearings and do not require lubrication.

Hydraulic oil reservoir

Hydraulic oil reservoir (item 5.): The fluid level should be kept level with the indicator line of the side of the reservoir and should be checked with all cylinders fully retracted and the platform in stowed position.

The interior of the reservoir should be wiped out and cleaned each time the hydraulic oil is changed. The reservoir filler/breather cap should be removed and the cap breather cleaned yearly with Kerosene, Fuel Oil, or other solvent.

Any time the hydraulic oil is changed or added, it is absolutely necessary that only clean hydraulic oil is used.

Note:

If it becomes necessary to add or use an oil other than the recommended fluid, it is important that it be compatible and equivalent to the factory fill. Local oil suppliers can generally furnish this information.

If questions still remain, contact Snorkel Customer Service Department, St. Joseph, Missouri, for further information.

Return filter

Return filter (item 6.): The hydraulic oil return filter is mounted in the right hand tray close to the hydraulic oil reservoir.

The filter element is a throwaway type filter and should be changed after the initial break-in period (approximately 50 hours operation time).

The filter condition should be checked at the 90 day or 150 hour Preventive Inspection Maintenance interval or more frequently under extreme working conditions.

When changing the filter element, the oil inside of the filter element, should be examined for deposits of metal cuttings, which if present, could indicate excessive wear in some of the system components.

Door hinges and latches

Door hinges and latches (item 7.): Lubricate at recommended interval using specific lubricants as outlined in the maintenance schedule.

After lubricating, remove any excess oil or over spray so it will not collect dirt and debris.

Slide pads

Slide pads (item 8.): Check slide pads for excessive wear and replace as required. Slide pads do not require lubrication.

Scissor arm bearings

Scissor arm bearings (item 9.): Scissor arm bearings are self lubricating. Check bearings for signs of damage and excessive wear as outlined in the maintenance schedule. Do not lubricate scissor arm bearings.

Batteries

Batteries (item 10.): The batteries and battery cables should be checked to assure that the connections are tight and free of corrosion. Fluid level should be maintained to assure that the batteries will maintain proper charge.

Check the batteries specific gravity per the maintenance schedule.

The batteries are enclosed within a tray located on the side of the machine. For access to the batteries when the machine is lowered, position the machine on a hard level surface, unlatch and open tray.

▲ DANGER

Lead-acid batteries contain sulfuric acid which will damage eyes or skin on contact. When working around batteries, **ALWAYS** wear a face shield to avoid acid in eyes. If acid contacts eyes, flush immediately with clear water and get medical attention.

Wear rubber gloves and protective clothing to keep acid off skin, if acid contacts skin, wash off immediately with clear water.

Lead-acid batteries produce flammable and explosive gases. **NEVER** allow smoking, flames or sparks around batteries.

Pothole protection interlock test

Perform this test using the lower controls.

1. Stow the platform and position machine on a smooth, flat, level concrete slab.
2. Remove all persons and materials from the platform.
3. With the swing-out trays closed, check the ground clearance under the pothole protector skids (refer to Figure 1). Clearance should be at least 3-3/4 inch on both sides of the platform.



Figure 1—Pothole protector skids

4. Raise the platform while watching movement of the skids. The skids should lower to less than 1-1/4 inch ground clearance when the platform is raised approximately 24 inches.
5. Fully lower the platform while watching movement of the skids. The skids should raise to their original position when the platform is lowered to approximately 24 inches.
6. Place a 1-1/2 inch thick board, such as a 2 x 4, under the skid on the right side (refer to Figure 2).



Figure 2—Pothole protector interlock test

7. The board will prevent the skid from lowering fully. Raise the platform while watching the skid. When the skid contacts the board, the platform should stop raising and an alarm should sound at less than seven (7) feet platform floor height. The alarm should then sound when the platform raise switch is activated. The platform should not raise any further.
8. Lower the platform. Place the board under the skid on the left side.
9. Raise the platform while watching the skid. When the skid contacts the board, the platform should stop raising and an alarm should sound at less than seven (7) feet platform height. The alarm should then sound when the platform raise switch is activated. The platform should not raise any further.

⚠ DANGER

The potential for an accident increases when safety devices do not function properly. Death or serious injury can result from such accidents. Do not alter, disable, or override any safety device.

10. If the platform raise function is not disabled, or the alarm does not sound, remove the platform from service until the problem is corrected.

Level sensor interlock test

Perform this test after verifying proper operation of the pothole protection interlock.

1. Position the platform on a smooth, flat, level surface.
2. Remove all persons and materials from the platform.
3. From the lower controls, raise the platform to access the level sensor at the front of the chassis (refer to Figure 3).

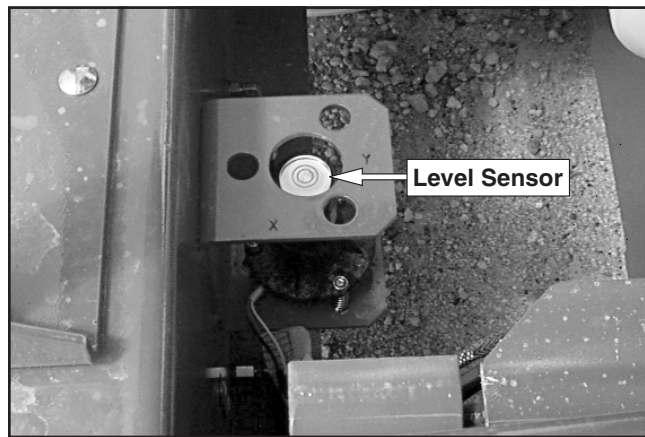


Figure 3—Level sensor

4. Pull the level sensor to the side as far as possible while raising the platform. The platform should stop raising and the alarm should sound at approximately seven (7) feet (2m) of platform elevation.

5. If platform does not stop raising or the alarm does not sound, remove the machine from service until the problem is corrected.

⚠ DANGER

The potential for an accident increases when safety devices do not function properly. Death or serious injury can result from such accidents. Do not alter, disable, or override any safety device.

Battery care and maintenance

The following information about battery care and maintenance was supplied by Interstate Batteries and is reprinted here with their permission.

1. New batteries need to be cycled several times before reaching full capacity (20-50 cycles, depending on type). Usage should be limited during this period.
2. Always recharge batteries fully, immediately after use. Batteries perform best when they are fully charged. More capacity and longer life will result from this practice.
3. The deeper the discharge, the fewer number of cycles a lead-acid battery will deliver. Deep discharges deteriorate the battery quicker than lighter shallow cycles.
4. Battery cables should be intact, and connectors kept tight at all times. Systematic inspection is recommended.
5. Vent caps should be kept in place and tight during vehicle operation and battery charging.
6. Batteries should be kept clean -- free of dirt and corrosion -- at all times. Always keep the top of batteries clean. A film on top of the battery can cause the current to migrate between the posts, accelerating self discharge.
7. Never let the electrolyte level of a lead-acid battery fall below the plates. Lack of maintaining the electrolyte in a lead-acid battery causes damage to the exposed portion of the plate which reduces capacity.
8. Always check electrolyte level before charging. Do not add water to individual cells unless plates are exposed. Batteries should be watered after charging unless the plates are exposed before charging. If exposed before charging, the plates should be covered by approximately 1/8" of water. Check water level after charging. Water should be kept 1/4" below the bottom of the fill tube in the cell cover.
9. Water used to replenish batteries should be distilled or treated to not exceed 200 T.D.S. (total dissolved solids... parts per million). Particular care should be taken to avoid metallic solids (iron).
10. A full charged battery will give you the best and longest service. Be sure the batteries are fully charged before testing or using. A fully charged battery, without a drain or load, after the surface charge has dissipated, is 6.35 volts for a 6 volt battery.
11. Batteries should not be discharged below 20% of capacity (approximately 1.8 volts per cell under normal operating load; 1.98 volts open circuit; 1.145 specific gravity). Proper battery sizing will help avoid excessive discharge.
 - 6.30 volts = 93% charged
 - 6.27 volts = 89% charged
 - 6.25 volts = 85% charged
 - 6.22 volts = 80% charged
 - 6.10 volts = 50% charged
 - 5.94 volts = 20% charged
12. Battery chargers should be sized to fully charge batteries in an eight hour period. Chargers should be kept in proper operating condition.
13. Do not use a mismatched charger of any type; i.e., a 12 volt charger on a 24 volt pack or a 24 volt charger on a 12 volt pack. An undersized charger will never get the job done, no matter how long it tries. An oversized charger will cause excess gassing and heat that could possibly result in a battery meltdown and/or explosion.
14. Never charge a lead-acid battery with a sealed (gel cell) battery charger. The lead-acid battery needs higher voltage to finish its charge. Without it the battery will never come back to 100% and sulfation can occur.
15. Always allow batteries to cool off after charging. The cooling time is very important because heat is generated during the recharge and discharge cycles. Without the cooling time the heat grows, accelerating grid corrosion which is one of the major causes of battery failure. Charging practice should enable batteries to cool before use.
16. Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. It helps keep cells in balance. Actively used batteries should be equalized once per week. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically controlled chargers should be unplugged and reconnected after completing a charge cycle.
17. In situations where multiple batteries are connected in series, parallel, or series-parallel, a replacement battery's should be of the same size, age, and usage level as the companion batteries. Do not put a new battery in a pack that has 50 or more cycles. Either replace all the batteries with new batteries or install a good used battery's in place of the bad. New batteries should be given a full charge before use.

18. Periodic battery testing is an important preventative maintenance procedure. Hydrometer readings of each cell (fully charged) give an indication of balance and true charge level. Imbalance could mean the need for equalizing and is often a sign of improper charging or a bad cell. Voltage checks (open circuit, charged and discharged) can locate a bad cell or weak battery. Load testing will pick out a bad cell when other methods fail. The point is to look for the abnormal. A weak cell or battery will cause premature failure of companion cells or batteries respectively.
19. As batteries age, their maintenance requirements change. Generally their specific gravity is higher and gassing voltage goes up. This means longer charging time and/or higher finish rate (higher amperage at the end of charge). Usually, older batteries need to be watered more often and their capacity decreases.
20. "Opportunity charging", a short partial charge during an extended duty cycle, is a controversial subject. Generally, the practice is a "crutch" to make up for undersized batteries. The correct approach is to install adequate battery capacity. If this is impossible because of lack of space in the battery compartment or extreme operating conditions (24 hour intermittent use, as an example), "opportunity charging" is better than excessive battery discharging. However, the practice can cause batteries to over heat, require more watering, and usually will shorten battery life. "Opportunity charging" is a trade off; something to avoid if possible. One charging cycle per day is preferable.
21. Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperature can cause "thermal run away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.
22. An overly discharged battery might need to be cycled a few times before it can recover fully. If a battery begins to heat before coming up to a full charge, it might be necessary to discharge the battery and recharge it a few times. The charge and discharge cycle might help the current acceptance of the battery and facilitate its recovery to a usable condition.
23. Inactivity can be harmful to deep cycle batteries. If they sit for several months, a "boost" charge should be given -- more frequently in warm climate (about once a month) than in cold (every 2-3 months).
24. Never store a battery in a discharged state. The sulfate that forms during discharge can make the battery impossible to recharge fully.

Battery charger

S2545 units are equipped with an onboard automatic battery charger. This charger has an electronic circuit that will completely recharge the batteries and automatically turn off after the charge cycle is completed.

The charging cycle may last 1-1/2 to 16 hours depending on the state of charge of the batteries. If the charging cycle should exceed 16 hours without the batteries being fully recharged, the charger should be shut off and the batteries should be checked.

If the batteries show no signs of problems and the specific gravity readings are within the range indicated previously, then the charger should be checked.

General charging cautions

1. Do not recharge batteries unless Electrolyte level has been checked. Operate charger in accordance with the battery charging instructions outline in this manual. Place BATTERY DISCONNECT switch in the "OFF" position before charging batteries.
2. Do not smoke or introduce a flame or spark in the charging area.

▲ DANGER

Lead acid batteries generate highly explosive Hydrogen gas, especially during charging cycle. To avoid the possibility of an explosion, charge batteries only in a well ventilated area away from sparks or flame.

3. Use protective face and eye equipment when checking the condition of charging batteries.

90 day or 150 hour checklist

OK	OK - No Service Required
✓	Corrective Action Required
X	Corrected, (Record description of corrective action).

Serial Number _____

Inspection Procedures Codes
(1) Weld cracks, dents and/or rust
(2) Installation
(3) Leaks
(4) Operation
(5) Condition
(6) Tightness
(7) Residue buildup
(8) See placards and decals inspection chart

Check	OK	✓	X
Baseframe			
Structural (1)			
Steering cylinder (2,3,4)			
Steering cylinder fasteners and linkage (1,2)			
Tires and wheels (5)			
Hydraulic tubes and hoses (3,5)			
Decals and placards (2,8)			
Cowling covers (5,6)			
Torque all wheel lug nuts/bolts per placard (2,6)			
Right drive motor (3,6)			
Left drive motor (3,6)			
Parking brakes (3,4)			
Free-wheeling valve (4,6)			
Cords and wire assemblies (2,5)			
Pothole protector interlock and alarm (1,2,4)			
Level sensor interlock and alarm (4,5)			
Swing-out trays (2,4,5)			
Lowering cushion valve (3,4)			
Hydraulic oil reservoir (3,5)			
Filler cap (6)			
Hydraulic fluid level (2,5)			
Return filter (2,6)			
Oil level tube (3,4)			
Scissor arm stack			
Structural (1)			
Scissor arm pivot pins, snap rings and roll pins (2,5)			
Lift cylinder and valves (2,3,4)			
Safety prop (2,4,5)			
Manual lowering valve (4)			
Hydraulic tubes and hoses (3,5)			
Wires and electrical cables (2,5)			
Decals and placards (2,8)			
Lower controls			
Control select switch "BASE" platform controls do not work (4)			
Control select switch "PLATFORM" base controls do not work (4)			
Toggle switch, lift UP - DOWN (4)			
Lowering alarm (4)			
Battery disconnect switch "OFF" controls do not work (4)			
Emergency stop switch "OFF" controls do not work (4)			
Hour meter (4)			

[illegible]

Corrective Action Required

Note: If correction action is required on any item, attach sheet indicating problem and action taken.

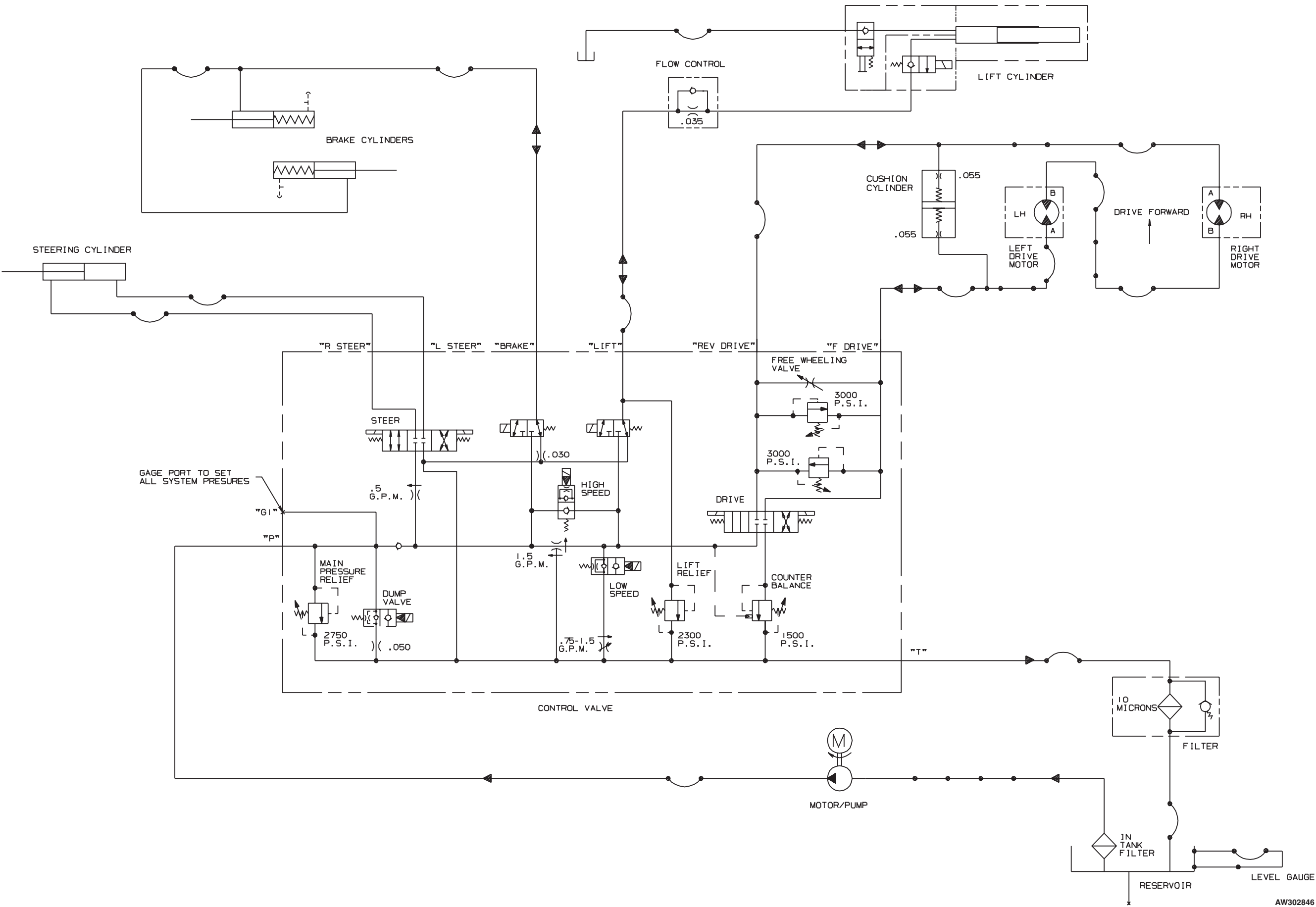
All items have been properly checked and tested and found to be operating satisfactory or necessary corrective action has been completed.

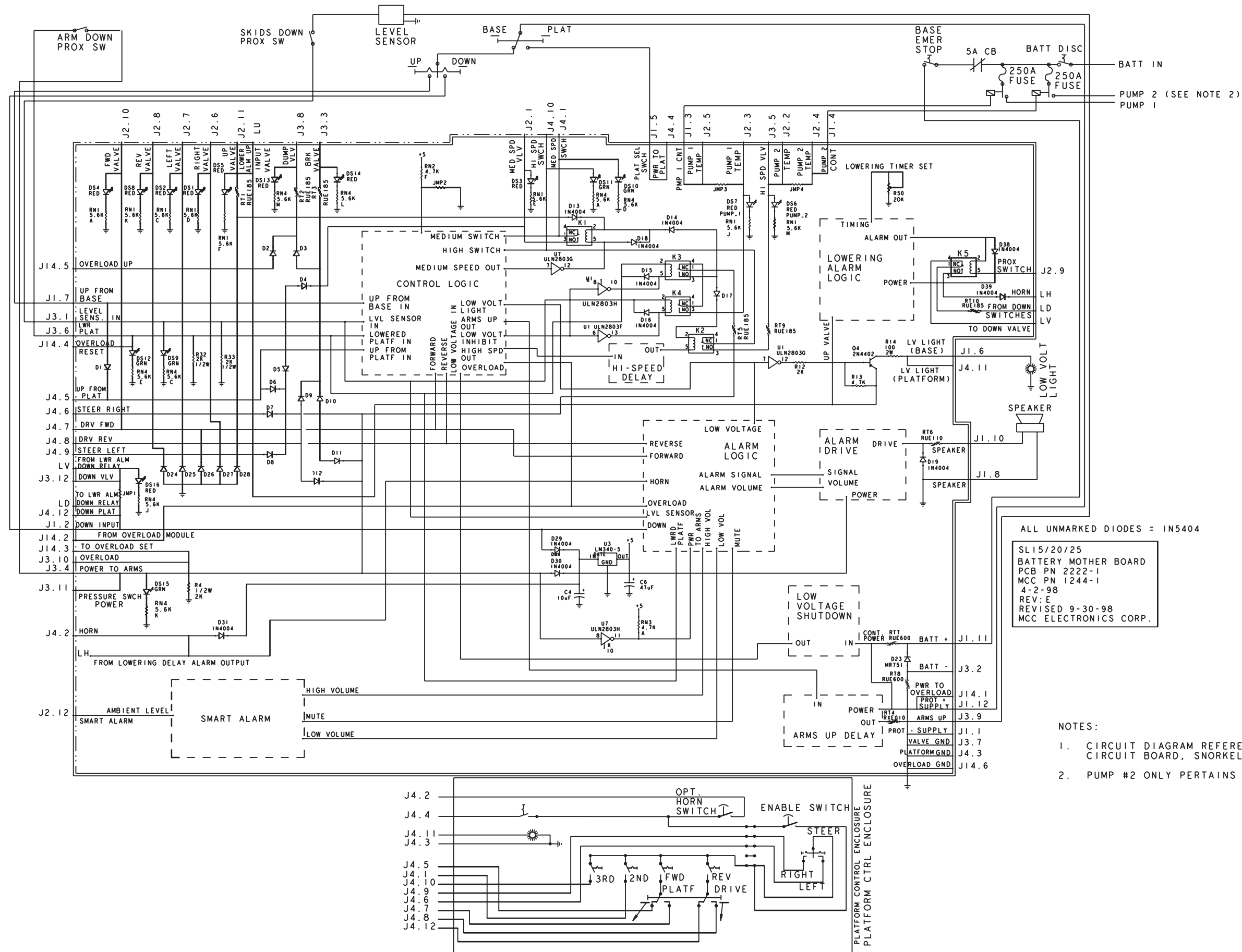
Inspected By: _____ Date _____

GRADE BOLT	SAE GRADE 1 OR 2	SAE GRADE 5	SAE GRADE 6	SAE GRADE 8
MARKING				
DEFINITION	INDETERMINATE QUALITY	MINIMUM COMMERCIAL QUALITY	MEDIUM COMMERCIAL QUALITY	BEST COMMERCIAL QUALITY
MATERIAL	LOW CARBON STEEL	MEDIUM CARBON STEEL TEMPERED	MEDIUM CARBON STEEL Q & T	MED. CARBON ALLOY STEEL Q & T
MIN. TENSILE STRENGTH	64,000 P.S.I.	105,000 P.S.I.	133,000 P.S.I.	150,000 P.S.I.
BOLT SIZE	RECOMMENDED TORQUE VALUES (FT. LBS)			
1/4	5	7	10	10.5
5/16	9	14	19	22
3/8	15	25	34	37
7/16	24	40	55	60
1/2	37	60	85	92
9/16	53	88	120	132
5/8	74	120	167	180
3/4	120	200	280	296
7/8	190	302	440	473
1	282	466	660	714

The following rules apply to the chart

1. Consult manufacturers' specific recommendations when available.
2. The chart may be used with both course and fine thread fasteners lightly lubricated.
3. Increase torque by 20% when multiple tapered tooth (shake proof) lock washers are used.
4. The torque values are given in foot-pounds.
5. Inch pound equivalent may be obtained by multiplying by 12.





- NOTES:
1. CIRCUIT DIAGRAM REFERENCES GRD CONTROL CIRCUIT BOARD, SNORKEL P/N: 0360759.
 2. PUMP #2 ONLY PERTAINS TO SL-25 MACHINES.

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F

E

D

C

B

A

J1: BOX HARNESS (12-PIN PANDUIT)	
J1.1	PROTECTED NEGATIVE SUPPLY
J1.2	DOWN FROM BASE
J1.3	PUMP #1 CONTACTOR
J1.4	PUMP #2 CONTACTOR (SEE NOTE 1)
J1.5	SELECT SWITCH - PLATFORM
J1.6	LOW VOLTAGE LIGHT (+)
J1.7	UP FROM BASE
J1.8	ALARM SPEAKER
J1.9	NOT USED
J1.10	ALARM SPEAKER
J1.11	BATTERY (+)
J1.12	PROTECTED POSITIVE SUPPLY

JUMPER WIRE CHART		
JMP3	PUMP #1	REMOVE/CUT JUMPERS FOR MACHINES WITH ELECTRIC MOTOR TEMPERATURE CUTOFF SWITCHES (SEE NOTE 1)
JMP4	PUMP #2	
JMP1		REMOVE/CUT JUMPER FOR MACHINES WITH LOWERING INTERRUPT ALARM OPTION ONLY

RELAY FUNCTION LOGIC CHART	
K1	SPEED CONTROL RELAY
K2	HIGH SPEED PUMP RELAY
K3	LOW VOLT RELAY
K4	LOW SPEED PUMP RELAY
K5	LWRG INTERRUPT DELAY DOWN RELAY

J2: MAIN HARNESS 1 (12-PIN DEUTCH)	
J2.1	MEDIUM SPEED VALVE
J2.2	PUMP #2 TEMP SWITCH (SEE NOTE 1)
J2.3	PUMP #1 TEMP SWITCH
J2.4	PUMP #2 TEMP SWITCH (SEE NOTE 1)
J2.5	PUMP #1 TEMP SWITCH
J2.6	STEER RIGHT VALVE
J2.7	STEER LEFT VALVE
J2.8	DRIVE REVERSE VALVE
J2.9	LOWERING ALARM PROX SWITCH
J2.10	DRIVE FORWARD VALVE
J2.11	LIFT UP VALVE
J2.12	SMART ALARM

J3: MAIN HARNESS 2 (12-PIN DEUTCH)	
J3.1	SKIDS DOWN/LEVEL SENSOR
J3.2	BATTERY (-)
J3.3	BRAKE VALVE
J3.4	POWER TO ARMS
J3.5	HIGH SPEED VALVE
J3.6	ARMS DOWN
J3.7	VALVE GROUND
J3.8	DUMP VALVE
J3.9	ARMS UP
J3.10	PRESSURE SWITCH OUT (OPT.)
J3.11	PRESSURE SWITCH IN (OPT.)
J3.12	LIFT DOWN VALVE

J4: PLATFORM HARNESS (12-PIN DEUTCH)	
J4.1	MEDIUM SPEED SIGNAL
J4.2	OPERATOR HORN
J4.3	GROUND TO PLATFORM (-)
J4.4	POWER TO PLATFORM (+)
J4.5	UP FROM PLATFORM
J4.6	STEER RIGHT
J4.7	DRIVE FORWARD
J4.8	DRIVE REVERSE
J4.9	STEER LEFT
J4.10	HIGH SPEED SIGNAL
J4.11	LOW VOLTAGE LIGHT
J4.12	DOWN FROM PLATFORM

J14: OVRLOAD ALRM MODULE (6-PIN MATE-N-LOK)	
J14.1	OVERLOAD MODULE POWER (CONT)
J14.2	OVERLOAD OUT (TO ALARM)
J14.3	OVERLOAD SET (FROM PRESSURE SW)
J14.4	OVERLOAD RESET (FROM ARMS DOWN)
J14.5	OVERLOAD UP
J14.6	OVERLOAD MODULE GROUND

FUNCTION ACTUATED		DIAGNOSTIC L.E.D. ILLUMINATION																VALVE COILS ENERGIZED								
		DS1 STEER RIGHT VALVE	DS2 STEER LEFT VALVE	DS3 MEDIUM SPEED VALVE	DS4 DRIVE FORWARD VALVE	DS5 LIFT UP VALVE	DS6 HIGH SPEED VALVE/PUMP #2 CONT(SEE NOTE 1)	DS7 PUMP #1 CONTACTOR	DS8 DRIVE REVERSE VALVE	DS9 SKIDS DOWN/LEVEL SENSOR	DS10 MEDIUM SPEED SIGNAL (PLATFORM)	DS11 HIGH SPEED SIGNAL (PLATFORM)	DS12 ARMS DOWN	DS13 DUMP VALVE	DS14 BRAKE VALVE	DS15 POWER TO ARMS/POWER TO LEVEL SENSOR	DS16 LIFT DOWN VALVE	VALVE COIL STEER LEFT	VALVE COIL STEER RIGHT	VALVE COIL DUMP VALVE	VALVE COIL MEDIUM SPEED	VALVE COIL HIGH SPEED	VALVE COIL DRIVE FORWARD	VALVE COIL DRIVE REVERSE	VALVE COIL LIFT UP VALVE	VALVE COIL DOWN VALVE
DRIVE FORWARD	STOWED PLATFORM SPEED # 1																									
	STOWED PLATFORM SPEED # 2																									
	STOWED PLATFORM SPEED # 3																									
	ELEVATED PLATFORM (LOW SPEED ONLY)																									
	ELEVATED PLATFORM - INTERLOCKED																									
DRIVE REVERSE	STOWED PLATFORM SPEED # 1																									
	STOWED PLATFORM SPEED # 2																									
	STOWED PLATFORM SPEED # 3																									
	ELEVATED PLATFORM (LOW SPEED ONLY)																									
	ELEVATED PLATFORM - INTERLOCKED																									
STEER	STOWED PLATFORM STEER RIGHT																									
	ELEVATED PLATFORM STEER RIGHT																									
	STOWED PLATFORM STEER LEFT																									
	ELEVATED PLATFORM STEER LEFT																									
LIFT UP FROM PLATFORM CNTL	STOWED PLATFORM SPEED # 1																									
	STOWED PLATFORM SPEED # 2																									
	STOWED PLATFORM SPEED # 3																									
	ELEVATED PLATFORM SPEED # 1																									
	ELEVATED PLATFORM SPEED # 2																									
	ELEVATED PLATFORM SPEED # 3																									
	ELEVATED PLATFORM - INTERLOCKED																									
	ELEVATED PLATFORM -LOW VOLT ACTIVE																									
	STOWED PLATFORM																									
	ELEVATED PLATFORM																									
LIFT UP BASE CONTROLS	ELEVATED PLATFORM - INTERLOCKED (SEE NOTE 2)																									
	ELEVATED PLATFORM - LOW VOLT ACTIVE (SEE NOTE 2)																									
LOWER																										
	LOWER FORM BASE CONTROLS																									
	LOWER FROM PLATFORM CONTROLS																									

LEGEND:
= L.E.D. ILLUMINATED
= OPTIONAL; L.E.D. MAY BE ILLUMINATED, BUT FUNCTION IS DISABLED IN THIS MODE
NOTES:
1. PUMP #2 ONLY PERTAINS TO SL-25 MACHINES.
2. APPICABLE WITH JOYSTICK IN FULL FORWARD POSITION.

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