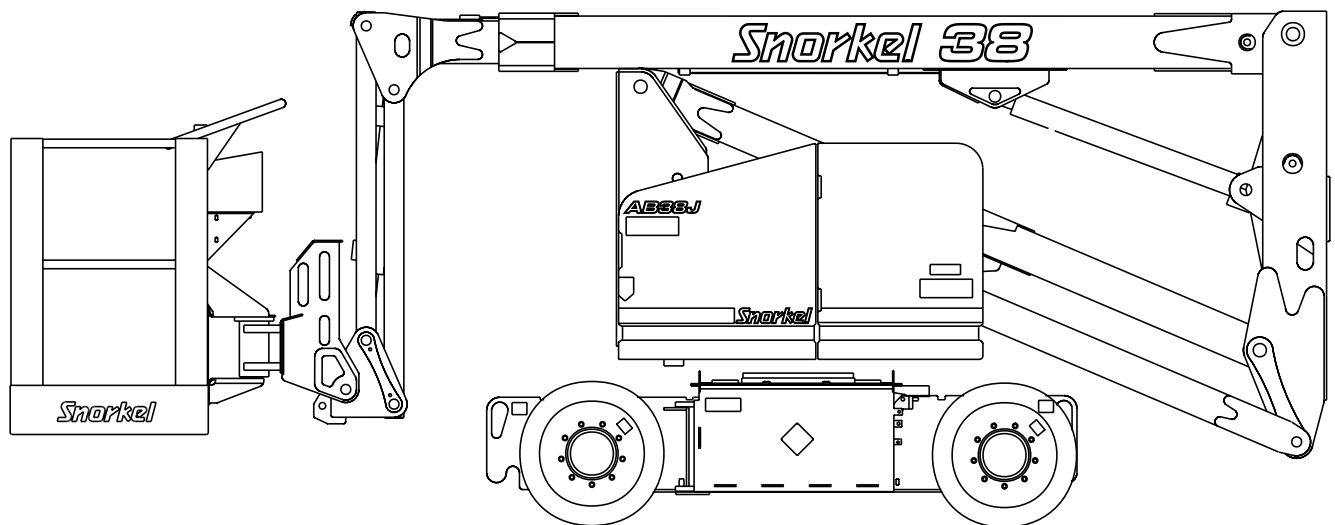


Repair Parts Manual



Manufactured 02-01 and after

AB38J

Snorkel

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 AB38J are as follows:

- ✓ Operator's Manual
Snorkel part number - 0351051
- ✓ Repair Parts Manual
Snorkel part number - 0350768
- ✓ ANSI Manual of Responsibilities
ANSI/SIA A92.5-1992

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

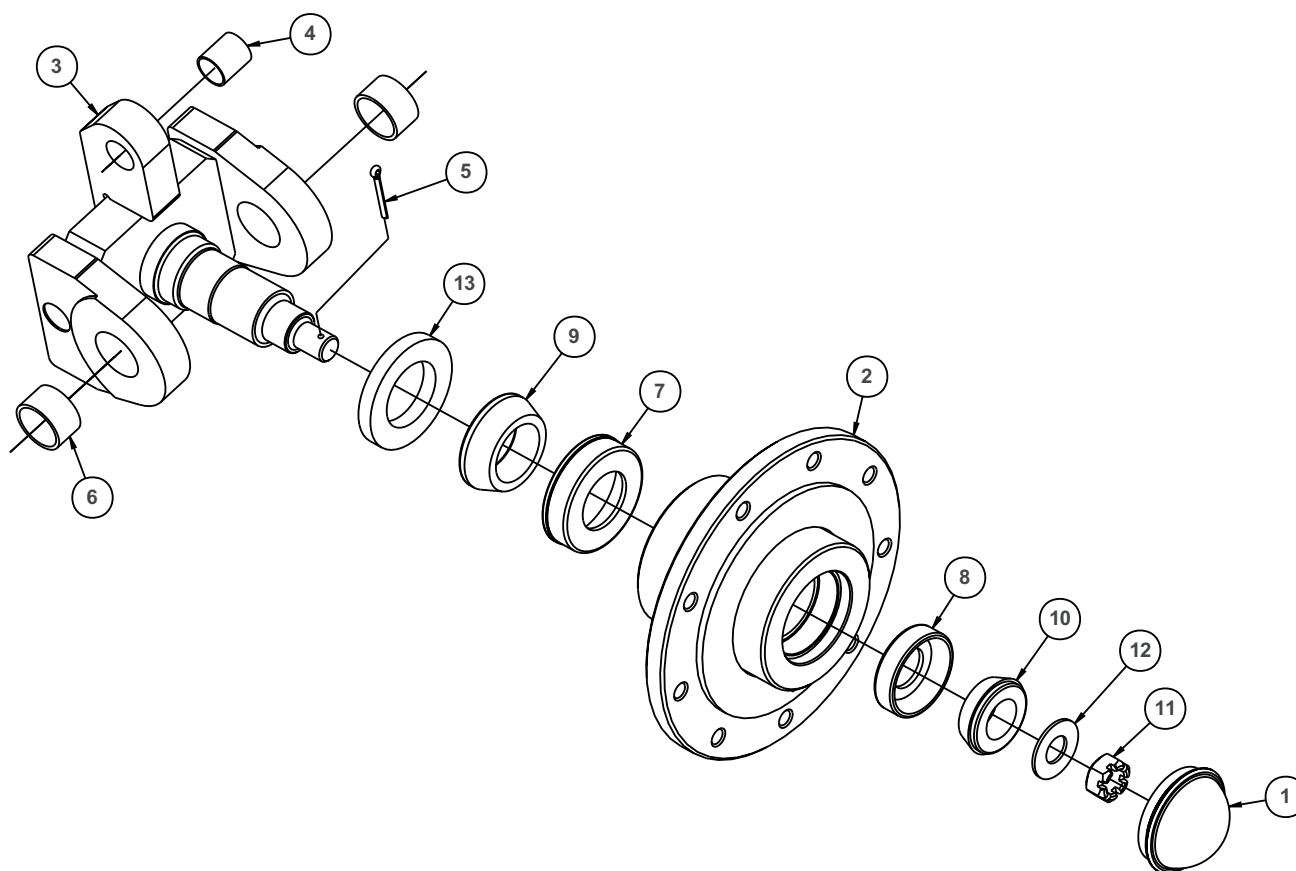
Date _____	Model _____
Company _____	Serial number _____
Address _____	Optional equipment _____
_____	Purchase order number _____
Contact name _____	Ship to _____
Phone number _____	_____
Fax number _____	_____
Account number _____	_____
Purchase order number _____	Ship by _____

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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 _____

item	part no	qty	description
	0350415	1	Steering yoke
1	0150599	1	Hub cap
2	0350411-99	1	Steer hub
3	0350414-99	1	Steering yoke
4	561196	1	Bearing
5	988379	1	Cotter pin 3/16 inch diameter x 1-3/4 inch long
6	2502229	2	Bearing
7	2540005	1	Inner bearing cup
8	2540010	1	Bearing cup
9	2560005	1	Outer bearing cone
10	2560010	1	Bearing cone
11	5560160	1	Spindle nut
12	5560161	1	Spindle nut washer
13	7150016	1	Seal



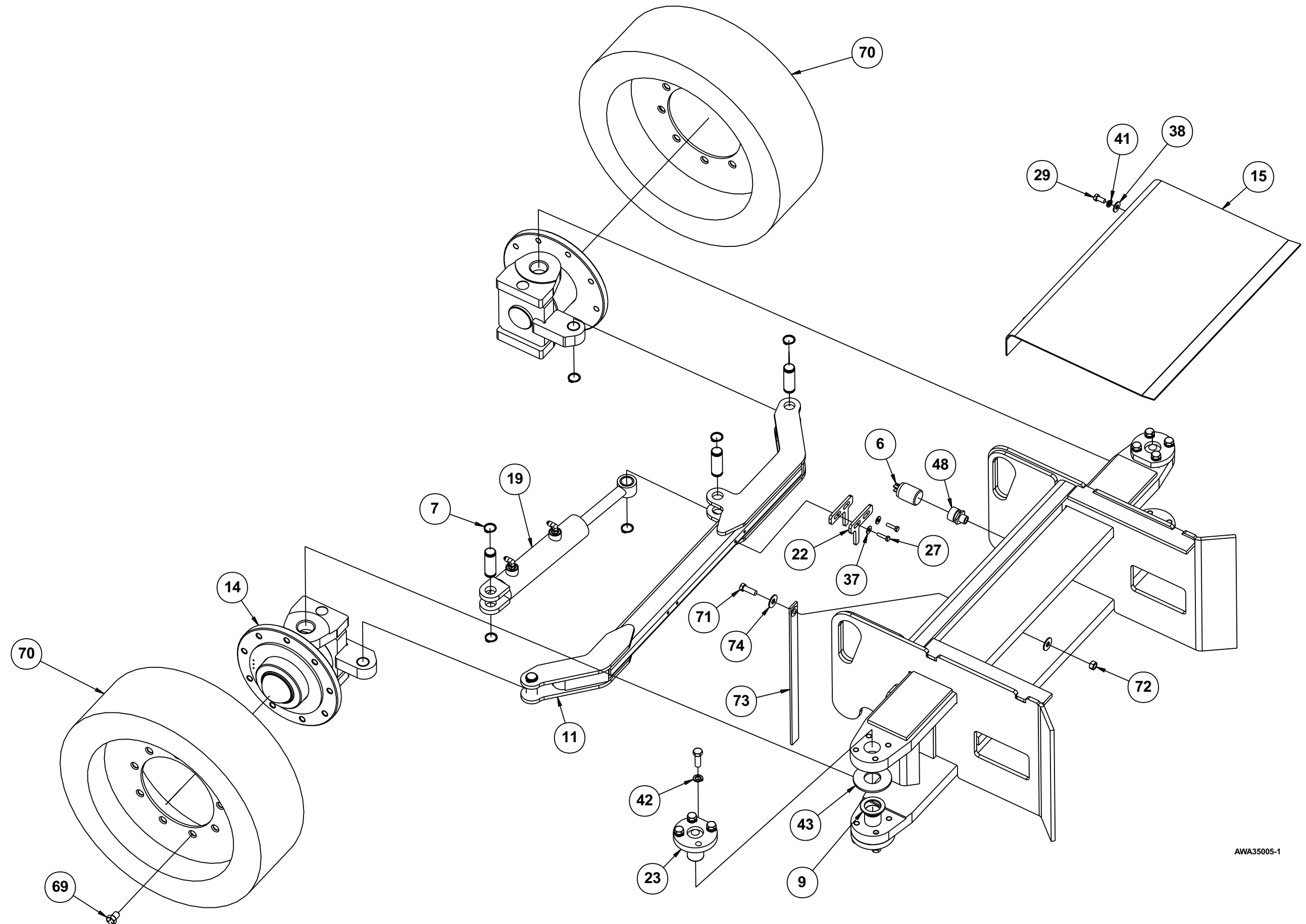
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Chassis

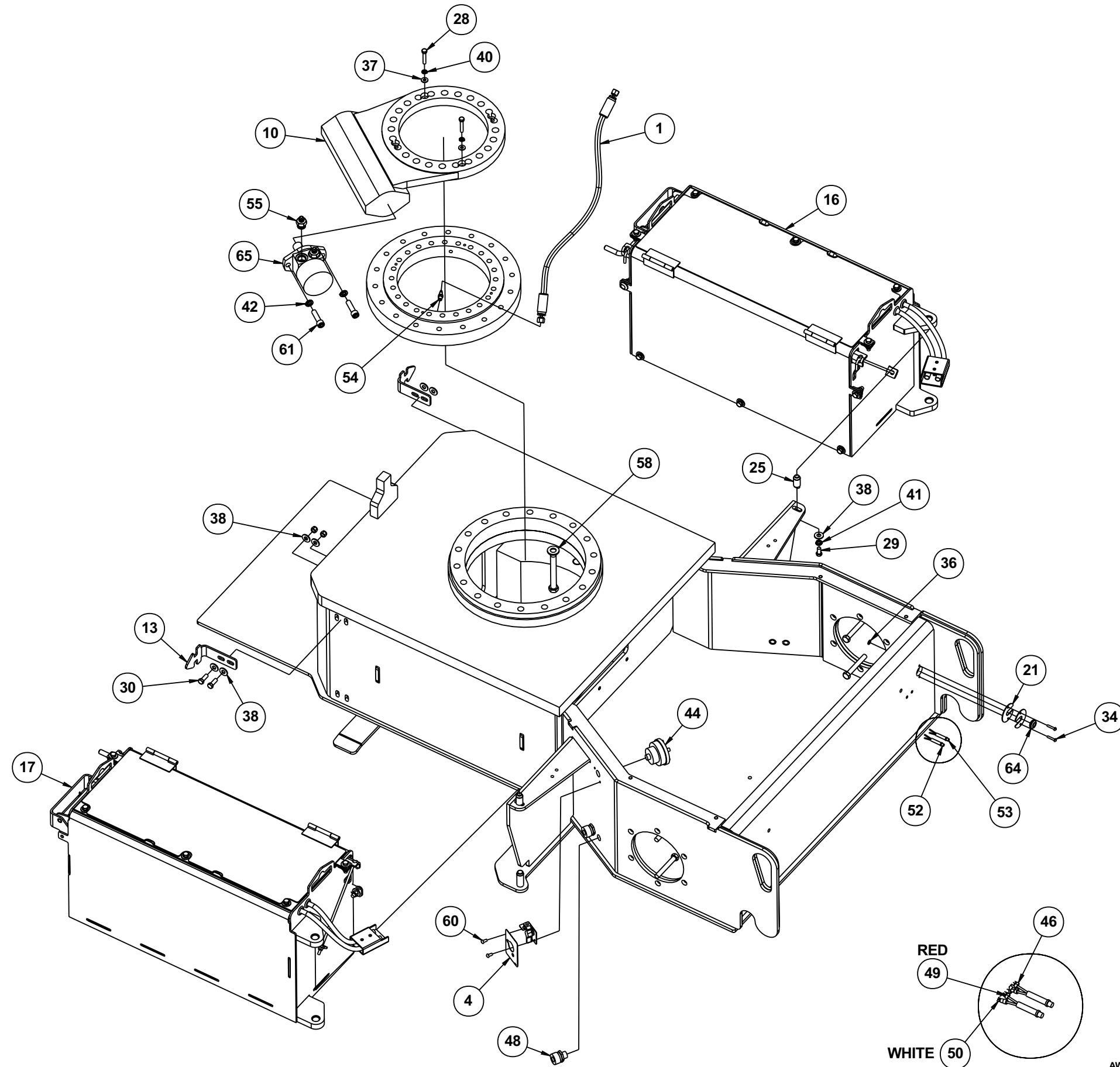
item	part no	qty	description
1	0050137	1	1/4 inch hydraulic hose
2	0163055-99	2	Gear hub - (see page 1-34 for parts breakdown)
3	0160563	4	Pin, tie rod
4	0161014	1	Placard, battery switch
5	0162945	2	Motor, electric drive - (see page 1-36 for parts breakdown)
6	238396	1	Plug male 125 volt AC
7	300542	8	Snap ring 1 inch heavy duty
8	300840	1	Lockout lever
9	302324	2	Machine bushing 2-1/4 inch OD x 1-1/2 inch ID x 10 gauge thick
10	0350330	1	Worm gear box - (see page 1-38 for parts breakdown)
11	0350377-99	1	Steering tie rod
12		1	Chassis - (consult factory)
13	0350412-99	2	Striker, battery box
14	0350415	2	Steering yoke - (see page 1-2 for parts breakdown)
15	0350505-99	1	Cover, chassis front
16	0350537	1	Battery box, right hand - (see page 1-17 for parts breakdown)
17	0350538	1	Battery box, left hand - (see page 1-14 for parts breakdown)
18	0350646	1	Drive control - (see page 3-4 for parts breakdown)
19	0350654	1	Steering cylinder - (see page 2-21 for parts breakdown)
20	0350703	1	Electric bulkhead - (see page 3-5 for parts breakdown)
21	0350760-99	2	Cord clamp
22	0350761-99	2	Steer switch actuator
23	0350788-99	4	King pin
24	0350844-99	1	Bracket, steering switch
25	0350912	2	Pin, battery box top hinge
26	970029	2	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
27	970049	2	Capscrew 1/4-20 x 1 inch long hex head grade 5
28	970289	2	Capscrew 5/16-18 x 1-3/4 inch long hex head grade 5
29	970449	12	Capscrew 3/8-16 x 3/4 inch long hex head grade 5
30	970469	12	Capscrew 3/8-16 x 1 inch long hex head grade 5
31	970489	2	Capscrew 3/8-16 x 1-1/2 inch long hex head grade 5
32	970909	16	Capscrew 1/2-13 x 1-1/2 inch long hex head grade 5
33	970898	4	Capscrew 1/2-13 x 3-1/2 inch long hex head grade 5
34	974709	2	Machine screw #10-24 x 1 inch long round head
35	974759	2	Machine screw #10-24 x 2 inch long round head
36	986009	2	Washer #10 medium flat
37	986019	6	Washer 1/4 medium flat
38	986299	30	Washer 3/8 medium flat
39	987099	2	Washer 1/4 medium lock
40	987109	2	Washer 5/16 medium lock
41	987119	20	Washer 3/8 medium lock
42	987139	22	Washer 1/2 medium lock
43	2580010	2	Thrust washer
44	3020061	1	Battery disconnect switch
45	3020156	1	Switch
46	3040046	2	Terminal .250 tab male slip-on fully insulated 22/18 wire
47	3040187	1	Connector
48	3040536	5	Connector
49	3040747	1	Terminal .188 tab male insulated 22/18 wire
50	3046972	1	Terminal .188 tab female slip-on insulated 22/18 wire
			Parts list continued on next page

Chassis

item	part no	qty	description
51	3050031	1	Battery charger, 115 volt - (see page 3-12 for parts breakdown)
52	3060113	1	Indicator light, neon - amber
53	3060114	1	Indicator light LED - green
54	5038702	1	Male 45° elbow
55	5065726	2	Straight thread adapter
56	5560033	6	Nut 3/8-16 self locking
57	5560034	2	Nut #10-24 self locking
58	5560169	18	Washer 5/8 hard flat ASTM-F436
59	5560283	12	Capscrew 5/8-11 x 1-1/2 inch long hex head grade 8 locking
60	5560296	2	Drive screw #4 x 1/2 inch long PK type U
61	5560358	2	Capscrew 1/2-13 x 2 inch long socket head
62	5560603	2	Nut sert 1/4-20
63	5561558	18	Capscrew 5/8-11 x 5 inch long locking hex head grade 8
64	5569711	1	Grommet
65	6030045	1	Hydraulic motor
66	7110045	2	O-ring
67	7200021-99	2	Brake, electric drive motor
	0181852	1	Lining repair kit
	0181853	1	O-ring repair kit
	0181854	1	Bearing repair kit
68	7280001	18	Lug nut
69	7280053	18	Wheel bolt
70	0350379	4	Tire and wheel, solid
	0350380	4	Tire and wheel, non-marking
71	970719	1	Capscrew 7/16-14 x 1-1/4 inch long hex head grade 5
72	984129	1	Nut 7/16-14 self locking
73	485134	1	Strap, static
74	986179	2	Washer 7/16 medium flat

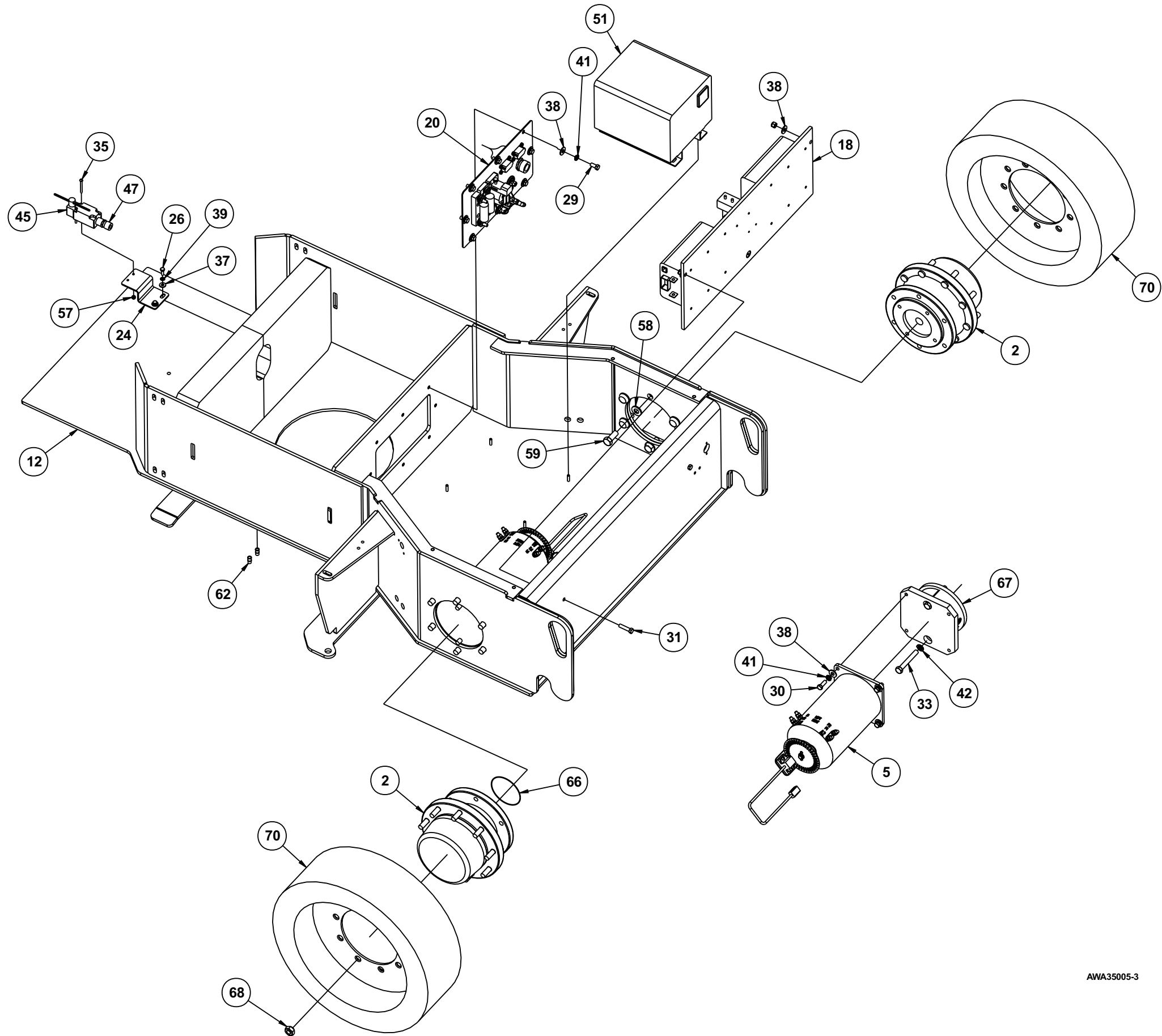


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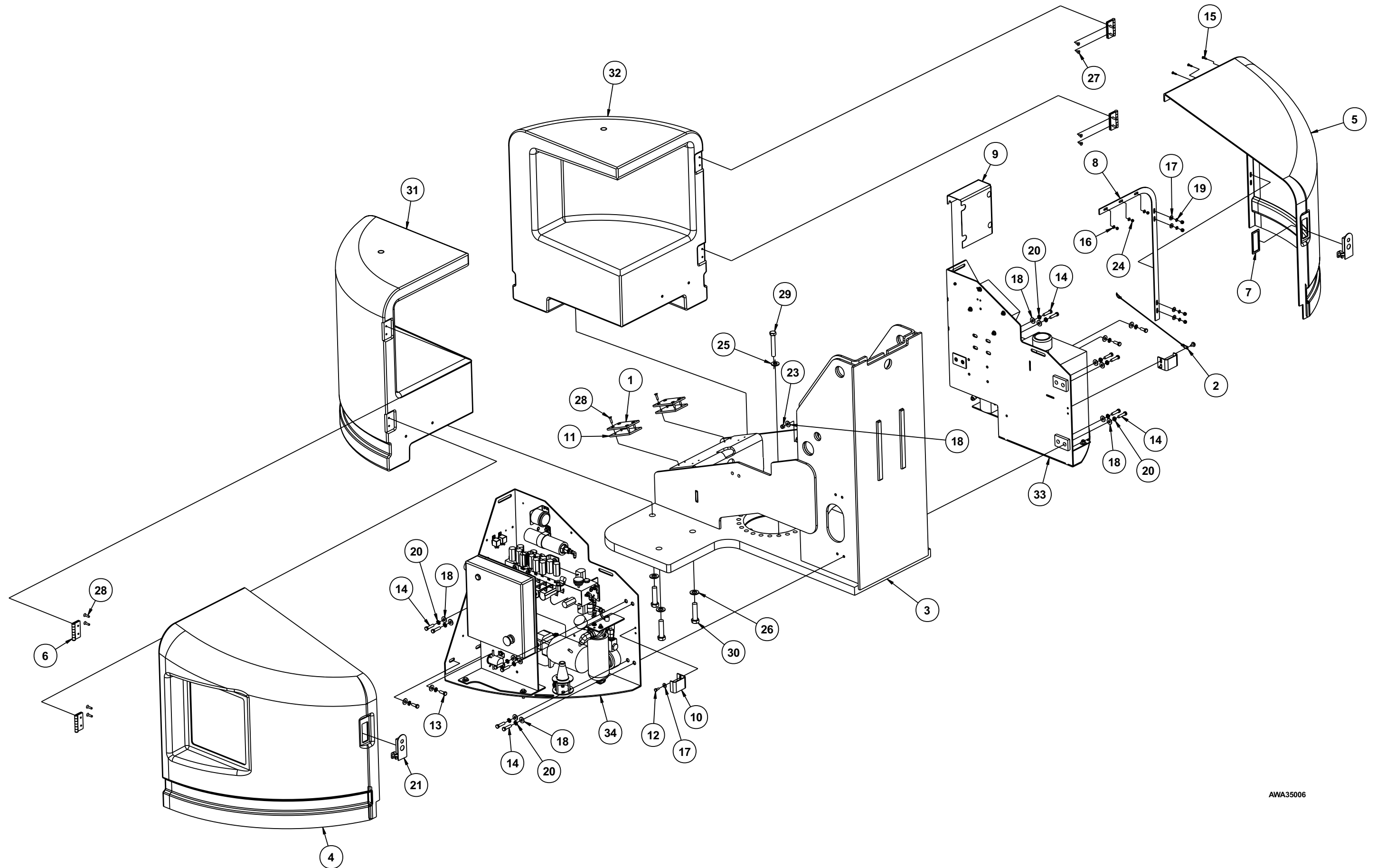


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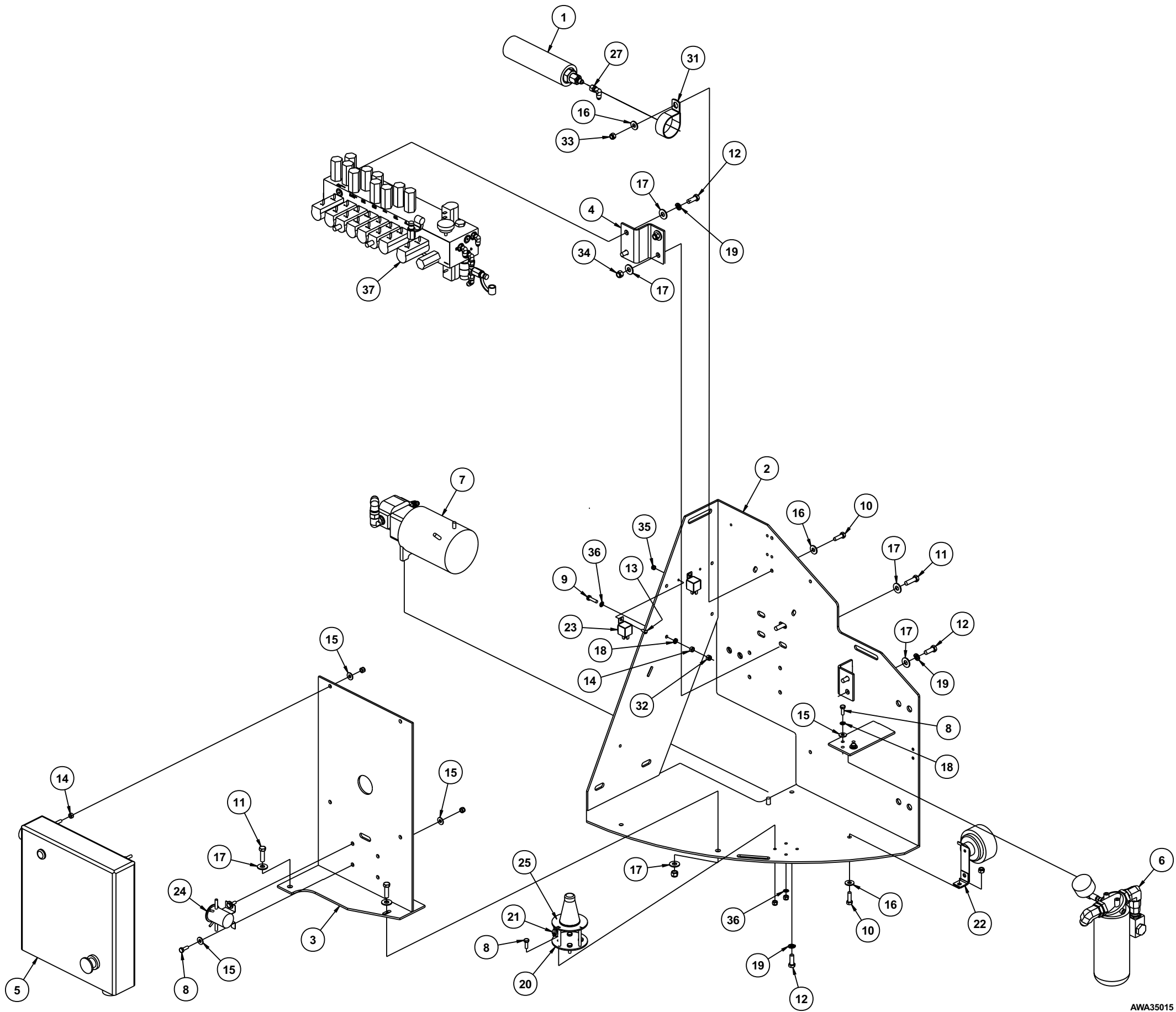


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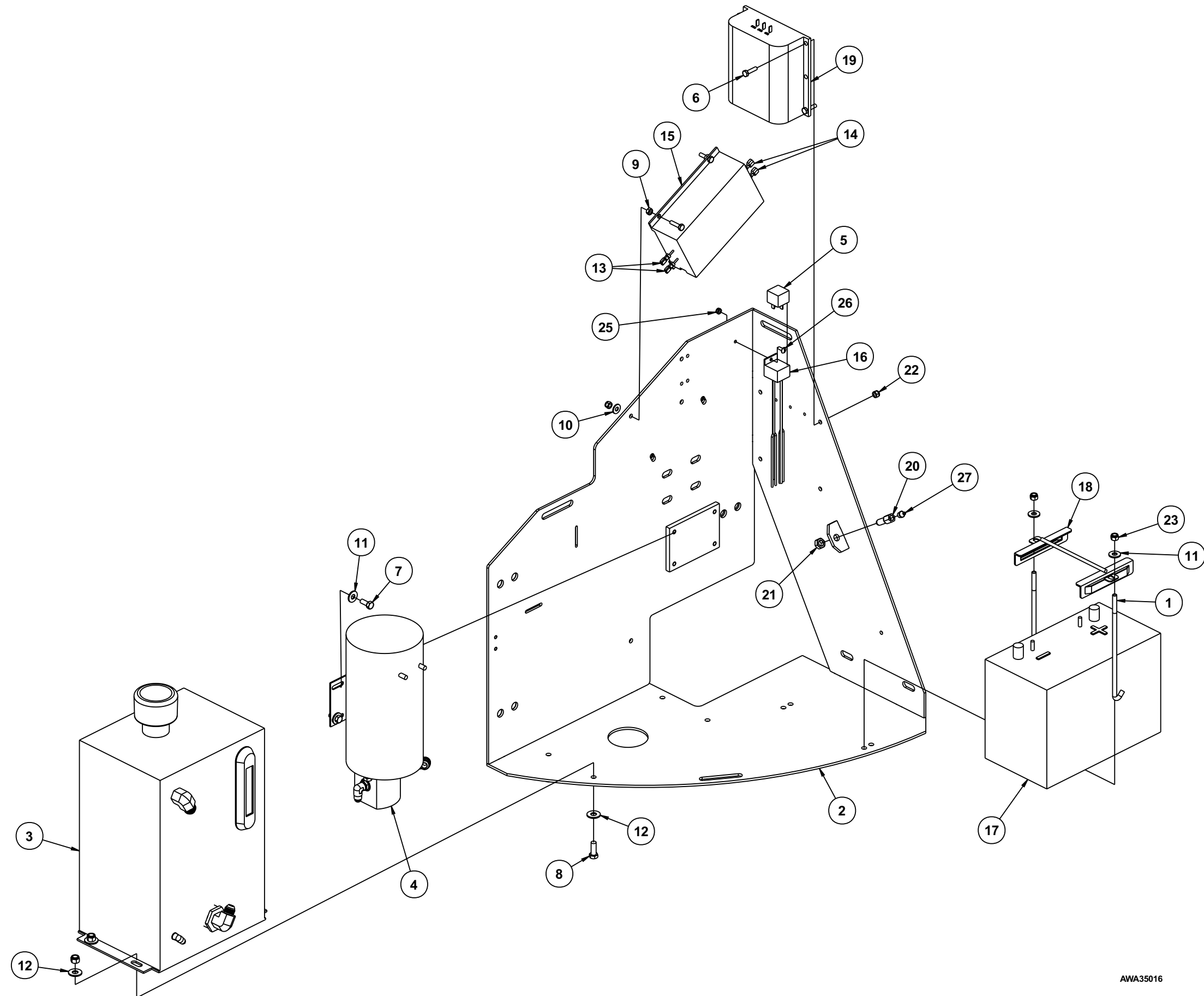
Turntable

item	part no	qty	description
1	0031691	2	Slide pad
2	0110594	1	Pin lock retainer
3		1	Turntable - (consult factory)
4	0350573-99	1	Cowling, left hand
5	0350574-99	1	Cowling, right hand
6	0350601-99	4	Hinge
7	0350633-99	2	Latch backing plate
8	0350634-99	2	Hinge backing plate
9	0350773-99	1	Cover, pump controller
10	0350781-99	2	Latch catch
11	0350820-99	2	Slide pad shim
12	970099	4	Capscrew 1/4-20 x 5/8 inch long hex head grade 5
13	970469	4	Capscrew 3/8-16 x 1 inch long hex head grade 5
14	970489	12	Capscrew 3/8-16 x 1-1/2 inch long hex head grade 5
15	974689	6	Machine screw #10-24 x 3/4 inch long round head
16	986009	6	Washer #10 medium flat
17	986019	12	Washer 1/4 medium flat
18	986299	20	Washer 3/8 medium flat
19	987099	8	Washer 1/4 medium lock
20	987119	16	Washer 3/8 medium lock
21	5510014	2	Switch, sealed lever
22	5560004	8	Nut 1/4-20 self locking
23	5560033	4	Nut 3/8-16 self locking
24	5560034	6	Nut #10-24 self locking
25	5560169	24	Washer 5/8 hard flat ASTM-F436
26	5560170	6	Washer 3/4 hard flat ASTM-F436
27	5560329	8	Capscrew 1/4-20 x 1/2 inch long socket flat head
28	5560331	16	Capscrew 1/4-20 x 1 inch long socket flat head
29	5560342	24	Capscrew 5/8-11 x 4 inch long hex head grade 8
30	5561557	6	Capscrew 3/4-10 x 3 inch long hex head grade 5
31	0350563	1	Counterweight, left hand
32	0350564	1	Counterweight, right hand
33	0350679	1	Tray, right hand - (see page 1-13 for parts breakdown)
34	0350680	1	Tray, left hand - (see page 1-10 for parts breakdown)

item	part no	qty	description
	0350680	1	Tray, left hand
1	0161920	1	Accumulator - (see page 2-8 for parts breakdown)
2	0350398-99	1	Left hand tray
3	0350560-99	1	Lower control box support
4	0350603-99	1	Valve bracket, left hand
5	0350636-79	1	Lower control box
6	0350694	1	Hydraulic oil filter - (see page 2-25 for parts breakdown)
7	0350843	1	Emergency power pump - (see page 2-24 for parts breakdown)
8	970029	8	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
9	970189	1	Capscrew 1/4-28 x 1 inch long hex head grade 5
10	970259	2	Capscrew 5/16-18 x 1 inch long hex head grade 5
11	970419	4	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
12	970469	6	Capscrew 3/8-16 x 1 inch long hex head grade 5
13	974659	2	Machine screw #10-24 x 1/2 inch long round head
14	984069	5	Nut 1/4-20 hex
15	986019	10	Washer 1/4 medium flat
16	986269	3	Washer 5/16 medium flat
17	986299	12	Washer 3/8 medium flat
18	987099	3	Washer 1/4 medium lock
19	987119	6	Washer 3/8 medium lock
20	3020158	1	Level sensor 5°
21	3040046	3	Terminal .250 tab male slip-on fully insulated 22/18 wire
22	3040127	1	Horn, 12 volt DC
23	3040469	2	Relay, 12 volt DC
24	3040506	1	Solenoid, 12 volt DC
25	3044162	1	Terminal 1/4 stud insulated 16/14 wire
26	5035315	1	Straight thread 90° elbow
27	5037003	2	Swivel nut 90° elbow
28	5037006	1	Swivel nut 90° elbow
29	5063906	1	Fitting nut
30	5064002	1	Tube end reducer
31	5093014	1	Clamp
32	5560004	11	Nut 1/4-20 self locking
33	5560031	2	Nut 5/16-18 self locking
34	5560033	4	Nut 3/8-16 self locking
35	5560034	2	Nut #10-24 self locking
36	5560341	2	Washer 1/4 star tooth lock
37	0350819	1	Control valve and fittings - (see page 2-4 for parts breakdown)



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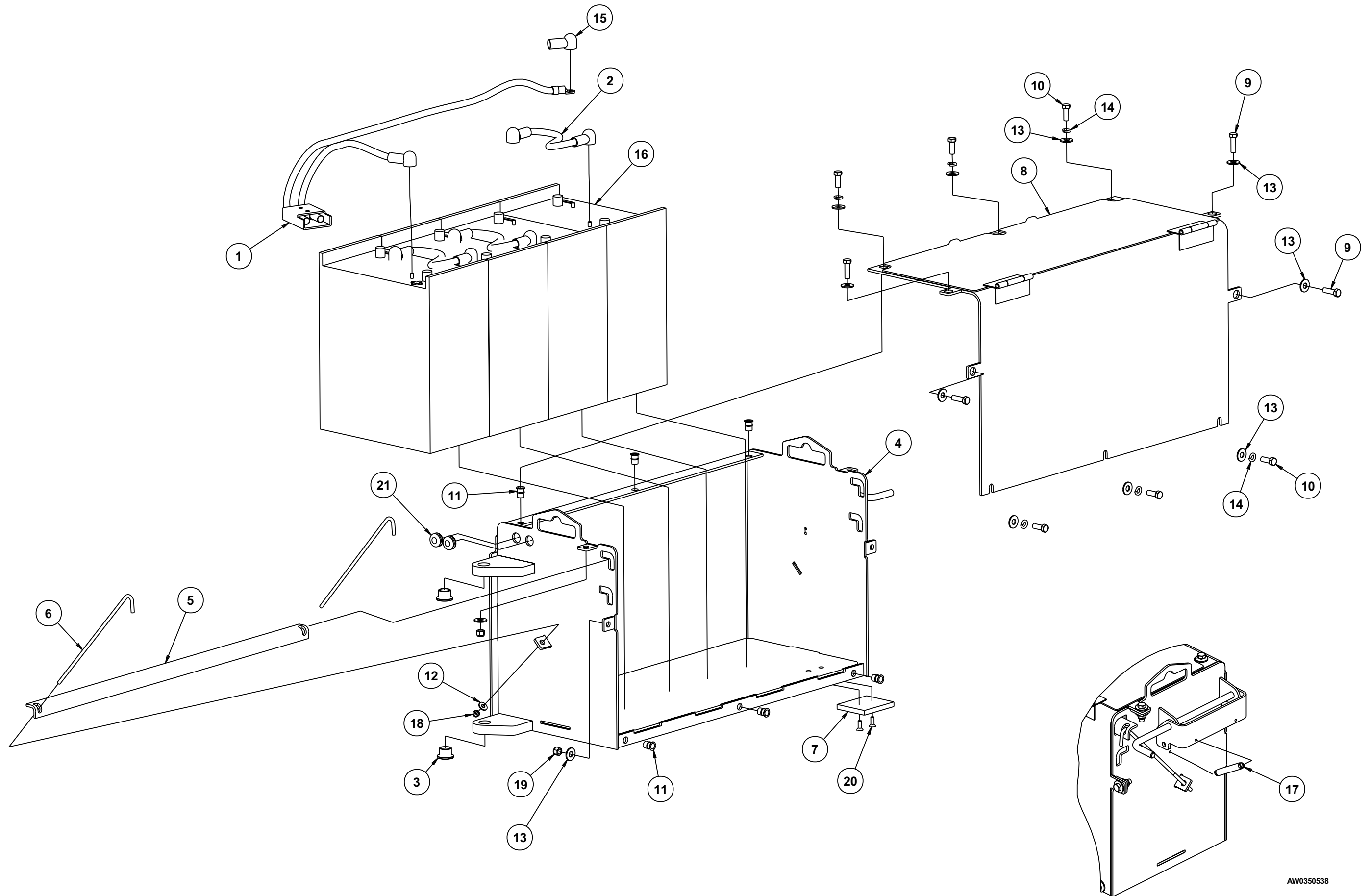


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item	part no	qty	description
	0350679	1	Tray, right hand
1	0150910	2	Battery hold down bolt
2	0350556-99	1	Right hand tray
3	0350606	1	Hydraulic oil reservoir - (see page 2-28 for parts breakdown)
4	0350855	1	Main pump - (see page 2-29 for parts breakdown)
5	562846	1	Relay, 24 volt DC
6	970049	8	Capscrew 1/4-20 x 1 inch long hex head grade 5
7	970239	4	Capscrew 5/16-18 x 3/4 inch long hex head grade 5
8	970469	4	Capscrew 3/8-16 x 1 inch long hex head grade 5
9	984069	4	Nut 1/4-20 hex
10	986019	4	Washer 1/4 medium flat
11	986269	6	Washer 5/16 medium flat
12	986299	8	Washer 3/8 medium flat
13	3040065	2	Terminal .250 tab female slip-on fully insulated 12/10 wire
14	3040082	2	Terminal .250 tab male fully insulated 16/14 wire
15	3049887	1	DC\DC converter
16	3049911	1	DC\DC converter isolator
17	3050002	1	Battery, 12 volt DC - 550 CCA
18	3050008	1	Battery hold down
19	3080035	1	Analog pump motor controller
20	5037102	1	Bulkhead connector
21	5074401	1	Bulkhead locknut
22	5560004	8	Nut 1/4-20 self locking
23	5560031	2	Nut 5/16-18 self locking
24	5560033	4	Nut 3/8-16 self locking
25	5560034	1	Nut #10-24 self locking
26	5560609	1	Machine screw #10-24 x 1/2 inch long truss head
27	5570001	1	Grease fitting, 1/8 NPT straight

<https://truckmanualshub.com/>
Battery box, left hand

item	part no	qty	description
	0350538	1	Battery box, left hand
1	0150444	1	Battery wire
2	0161408	3	Jumper wire
3	300437	2	Bearing flange
4	0350399-99	1	Left hand battery box
5	0350413-99	1	Battery box hold down
6	0350441-99	2	Rod, battery hold down
7	0350442	1	Slide pad
8	0350446-99	1	Cover, battery box
9	970419	4	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
10	970469	6	Capscrew 3/8-16 x 1 inch long hex head grade 5
11	984539	6	Nut sert 3/8-16
12	986019	2	Washer 1/4 medium flat
13	986299	14	Washer 3/8 medium flat
14	987119	6	Washer 3/8 medium lock
15	3040269	8	Insulator boot
16	3050030	4	Battery, 6 volt high capacity 335 amp/hr
17	5530018	1	Extension spring
18	5560004	2	Nut 1/4-20 self locking
19	5560033	4	Nut 3/8-16 self locking
20	5560330	2	Nut 1-1/4-12 self locking
21	5569013	2	Grommet



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TITLE Battery box, left hand

Snorkel model AB38J



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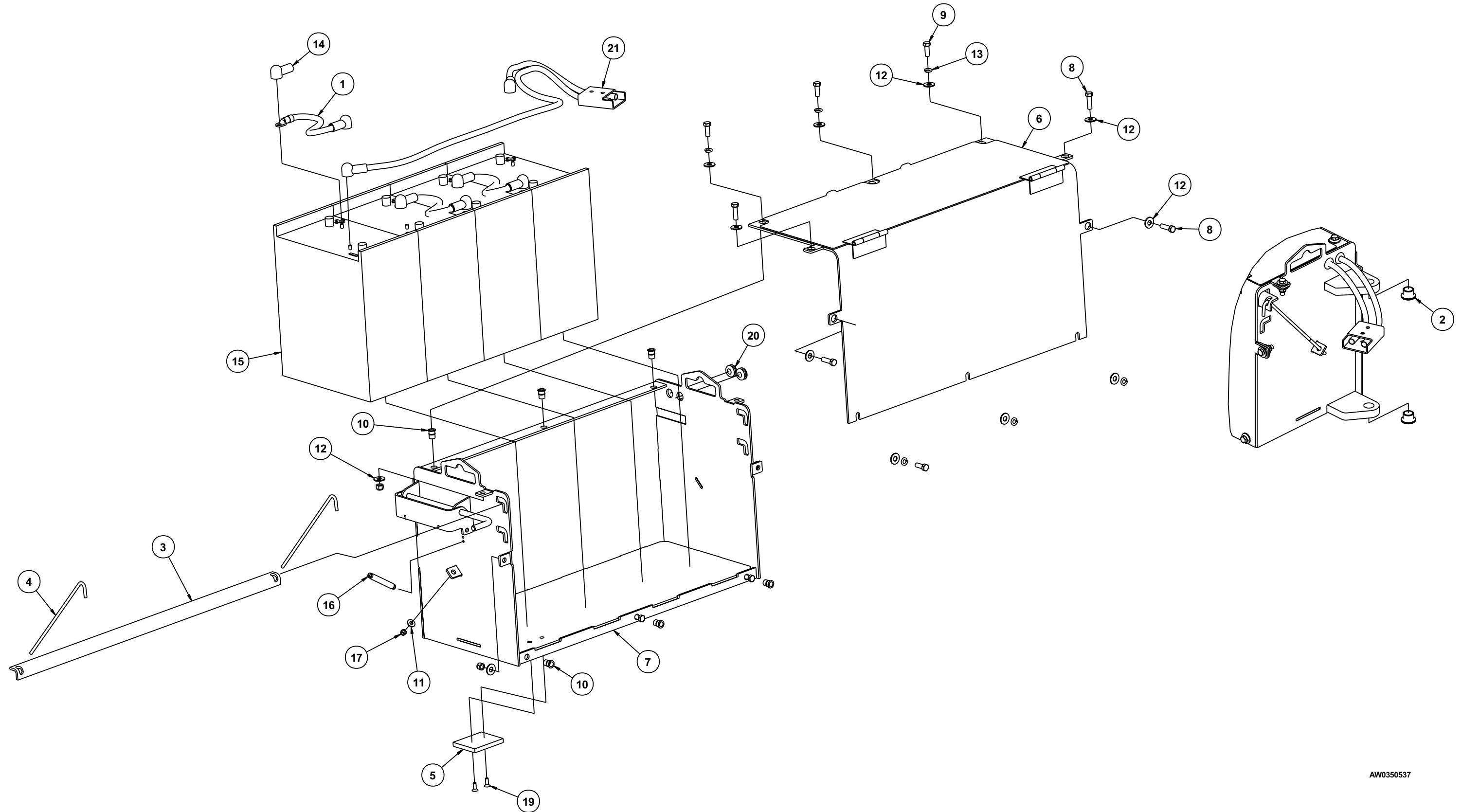
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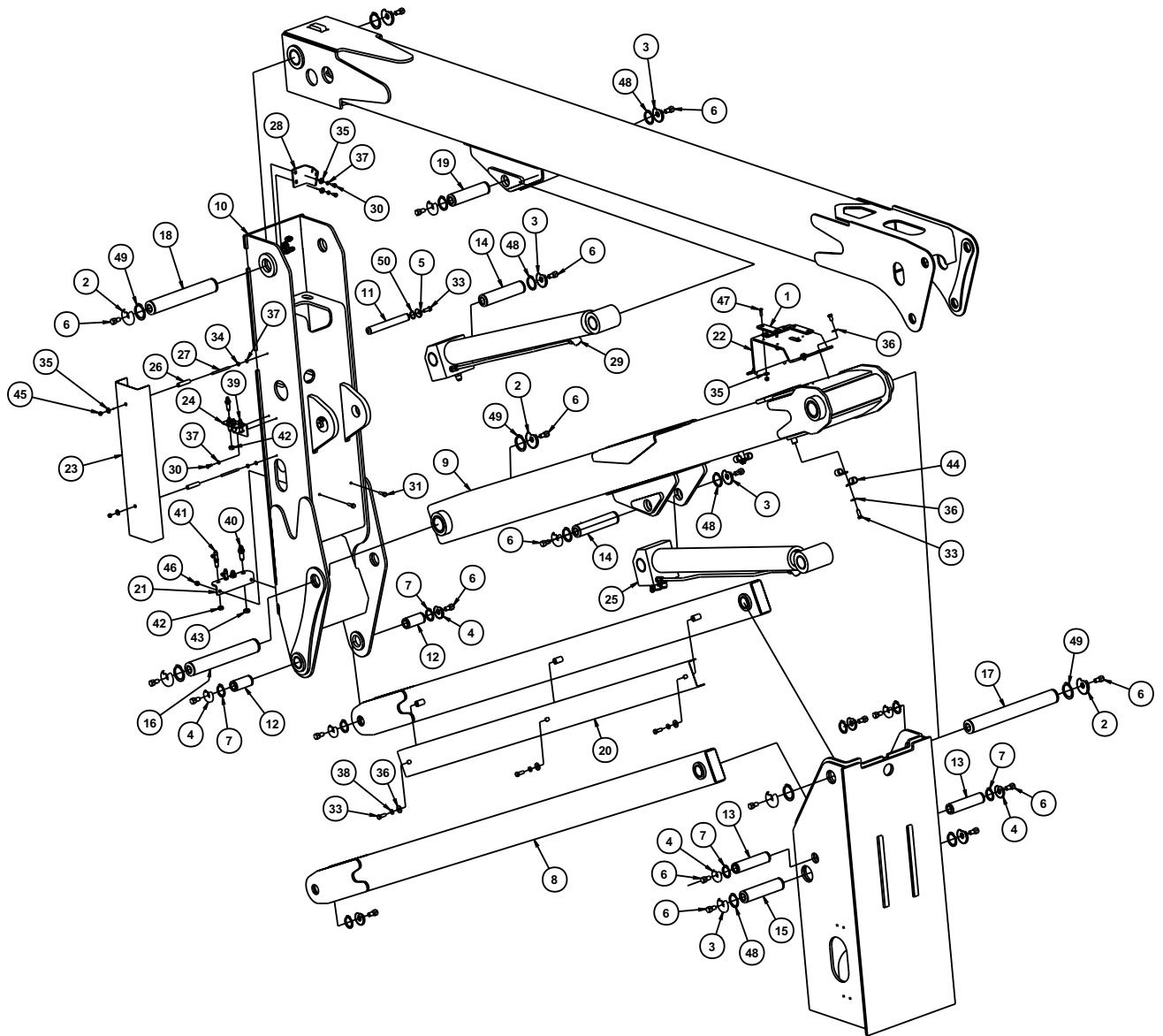
TITLE Battery box, right hand

Battery box, right hand

item	part no	qty	description
	0350537	1	Battery box, right hand
1	0161408	3	Jumper wire
2	300437	2	Bearing flange
3	0350413-99	1	Battery box hold down
4	0350441-99	2	Rod, battery hold down
5	0350442	1	Slide pad
6	0350446-99	1	Cover, battery box
7	0350449-99	1	Right hand battery box
8	970419	4	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
9	970469	6	Capscrew 3/8-16 x 1 inch long hex head grade 5
10	984539	6	Nut sert 3/8-16
11	986019	2	Washer 1/4 medium flat
12	986299	14	Washer 3/8 medium flat
13	987119	6	Washer 3/8 medium lock
14	3040269	8	Insulator boot
15	3050030	4	Battery, 6 volt high capacity 335 amp/hr
16	5530018	1	Extension spring
17	5560004	2	Nut 1/4-20 self locking
18	5560033	4	Nut 3/8-16 self locking
19	5560330	2	Capscrew 1/4-20 x 3/4 inch long socket flat head
20	5569013	2	Grommet
21	0150444	1	Battery wire

Lower boom

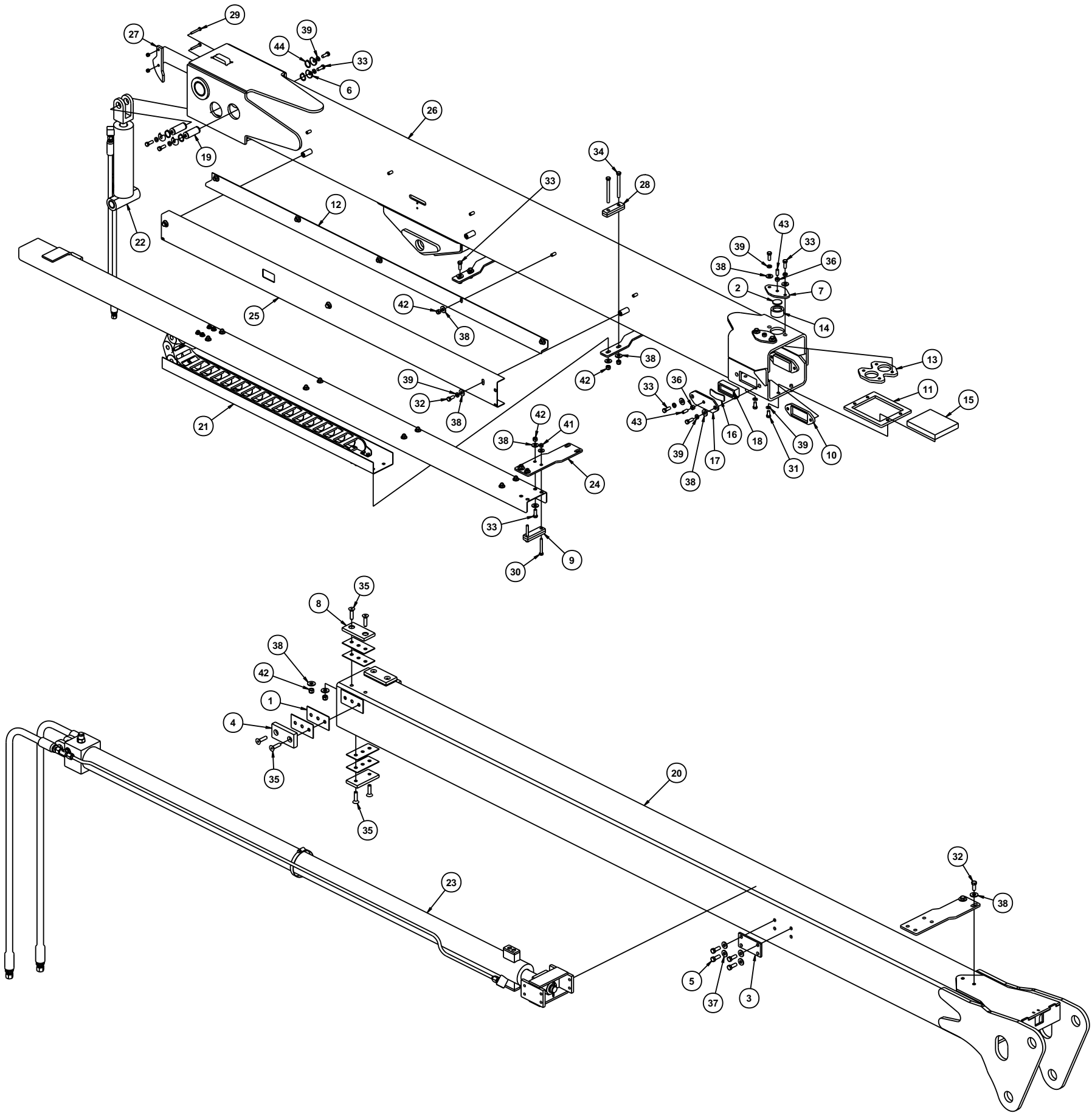
item	part no	qty	description
1	0101500	3	Slide pad
2	0160763-99	6	Pin lock
3	0160764-99	8	Pin lock
4	0160765-99	8	Pin lock
5	0160972-99	2	Pin lock
6	300729	22	Capscrew, special
7	302323	8	Retaining ring
8	0350454-99	2	Lower riser arm
9	0350455-99	1	Upper riser
10	0350472-99	1	Floating turret
11	0350513	1	Pin
12	0350516	2	Pin
13	0350517	2	Pin
14	0350518	2	Pin
15	0350519	1	Pin
16	0350520	1	Pin
17	0350521	1	Pin
18	0350522	1	Pin
19	0350523	1	Pin
20	0350585-99	2	Hose guide channel
21	0350604-99	1	Bulkhead bracket
22	20350640-99	1	Boom rest
23	0350641-99	1	Hose cover, floating turret
24	0350642-99	1	Bulkhead bracket, floating turret
25	0350655	1	Riser cylinder - (see page 2-17 for parts breakdown)
26	0350671-99	2	Spacer, hose cover
27	0350766	2	Threaded extension
28	0350834-99	1	Bracket, boom angle switch
29	0350893-99	1	Lift cylinder - (see page 2-13 for parts breakdown)
30	970099	4	Capscrew 1/4-20 x 5/8 inch long hex head grade 5
31	970259	2	Capscrew 5/16-18 x 1 inch long hex head grade 5
32	970439	4	Capscrew 3/8-16 x 5/8 inch long socket flat head
33	970469	10	Capscrew 3/8-16 x 1 inch long hex head grade 5
34	984329	2	Nut 1/4-20 hex jam
35	986019	10	Washer 1/4 medium flat
36	986299	12	Washer 3/8 medium flat
37	987099	6	Washer 1/4 medium lock
38	987119	6	Washer 3/8 medium lock
39	5034401	4	Bulkhead union
40	5034403	2	Bulkhead union
41	5035403	2	Bulkhead run tee
42	5074401	6	Bulkhead locknut
43	5074403	2	Bulkhead locknut
44	5093004	4	Clamp
45	5560004	8	Nut 1/4-20 self locking
46	5560031	2	Nut 5/16-18 self locking
47	5560331	6	Capscrew 1/4-20 x 1 inch long socket flat head
48	5590026	8	Retaining ring
49	5590027	6	Retaining ring
50	5591100	2	Snap ring



AWA35007

Upper boom

item	part no	qty	description
1	0071272	10	Slide pad shim, .063 inch thick
2	0100455	2	Cavity plug
3	0150113-99	2	Backup bar
4	0150122	2	Slide pad
5	0150248	8	Capscrew 3/8-16 x 1 inch long drive head
6	0160972-99	4	Pin lock
7	0161005-99	2	Slide pad retainer plate
8	0161766	3	Slide pad
9	0161868-99	1	Hose clamp
10	0350483-99	2	Plate, main boom slide pad
11	0350484-99	1	Plate, main boom slide pad
12	0350487-99	1	Guide, main boom track
13	0350495-99	1	Plate, main boom top slide pad
14	0350499	2	Slide pad
15	0350500	1	Slide pad
16	0350506-99	2	Cap, main boom slide pad
17	0350507-99	2	Plate, main boom slide pad
18	0350508	2	Slide pad
19	0350514	2	Pin
20	0350528-99	1	Tip boom
21	0350638	1	Plastic track - (see page 1-23 for parts breakdown)
22	0350656	1	Master level cylinder - (see page 2-15 for parts breakdown)
23	0350658	1	Extend cylinder - (see page 2-9 for parts breakdown)
24	0350828-99	1	Mounting bracket, tip boom track
25	0350829-99	1	Hose cover, main boom
26	0350832-99	1	Main boom
27	0350835-99	1	Ramp, boom angle switch
28	0350845-99	1	Bar, hose clamp
29	969989	2	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
30	970319	2	Capscrew 5/16-18 x 2-1/2 inch long hex head grade 5
31	970449	4	Capscrew 3/8-16 x 3/4 inch long hex head grade 5
32	970459	5	Capscrew 3/8-16 x 7/8 inch long hex head grade 5
33	970469	16	Capscrew 3/8-16 x 1 inch long hex head grade 5
34	970599	2	Capscrew 3/8-16 x 4 inch long hex head grade 5
35	972489	10	Capscrew 3/8-16 x 1-1/2 inch long hex head grade 5
36	984109	4	Nut 3/8-16 hex
37	986269	10	Washer 5/16 medium flat
38	986299	38	Washer 3/8 medium flat
39	987119	19	Washer 3/8 medium lock
40	5560004	2	Nut 1/4-20 self locking
41	5560031	2	Nut 5/16-18 self locking
42	5560033	21	Nut 3/8-16 self locking
43	5560197	4	Set screw 3/8-16 x 1 inch long hex socket flat point
44	5591100	4	Snap ring

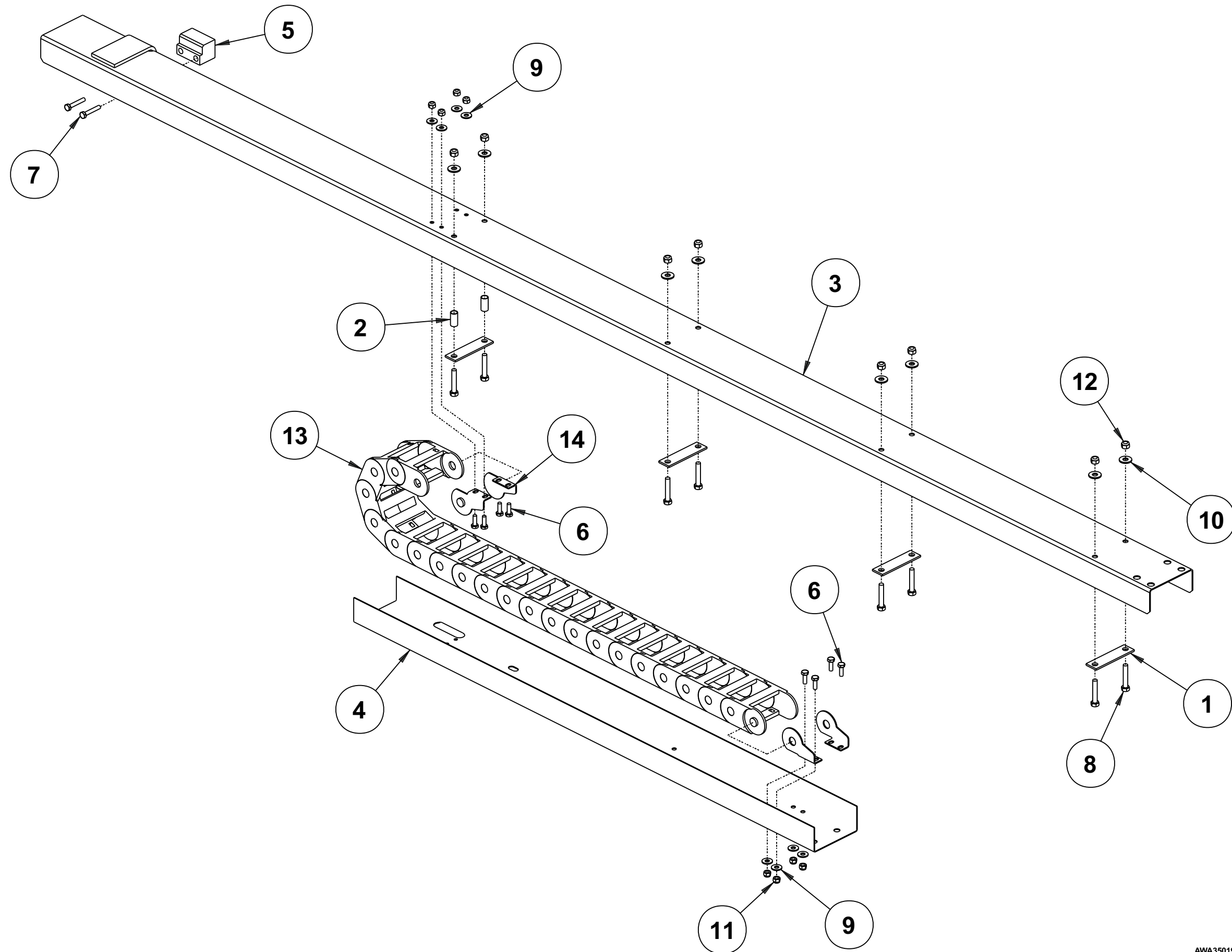


AWA35020

TITLE Upper boom

Snorkel model AB38J





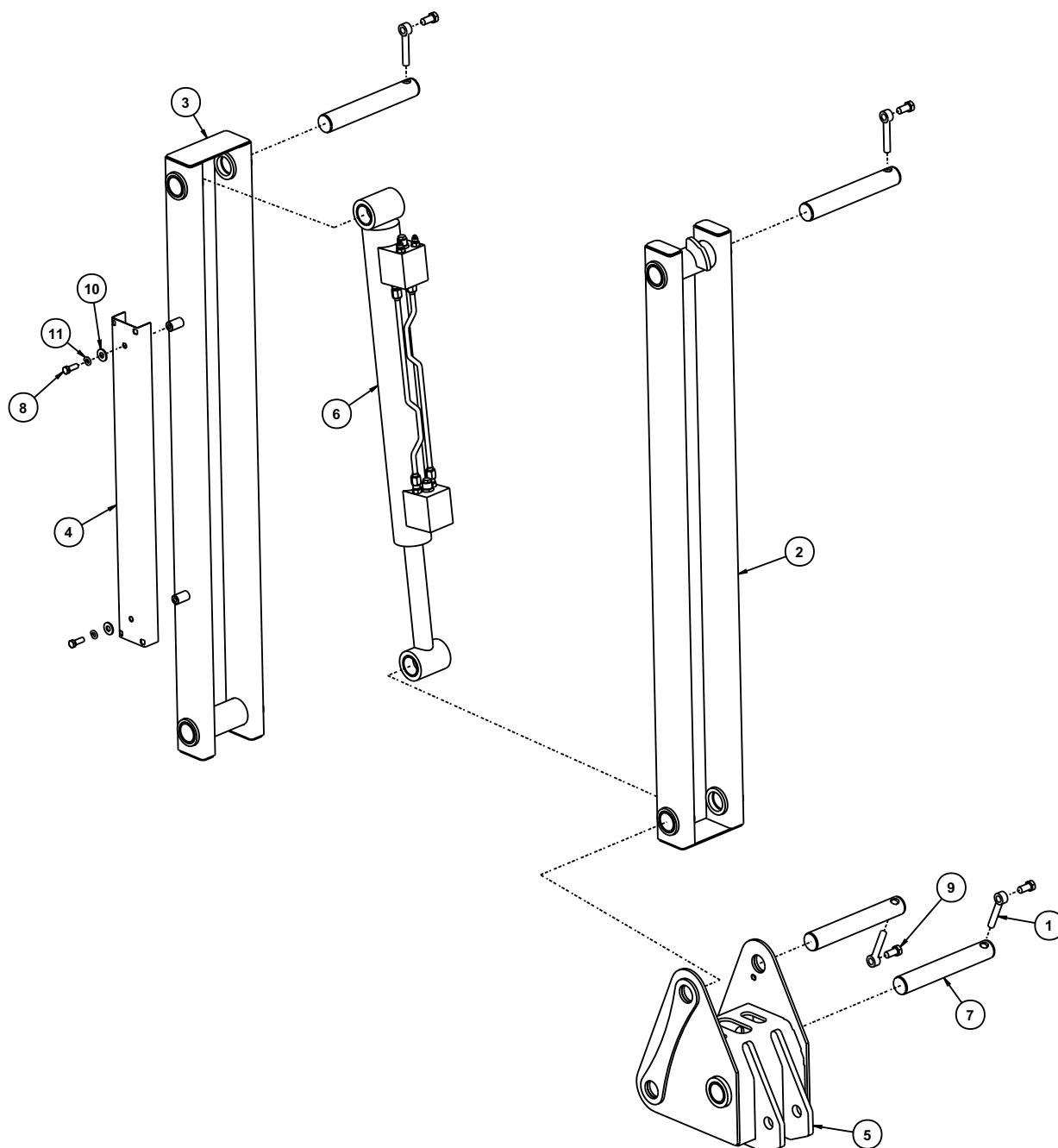
AWA35019

Plastic track

item	part no	qty	description
	0350638	1	Plastic track
1	0161416-99	4	Clamp bar
2	0162481-99	8	Spacer
3	0350827	1	Slide pad
4	0350830-99	1	Plastic track channel bottom
5	0350831	1	Slide pad
6	970029	8	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
7	970059	2	Capscrew 1/4-20 x 1-1/2 inch long hex head grade 5
8	970289	8	Capscrew 5/16-18 x 1-3/4 inch long hex head grade 5
9	986019	8	Washer 1/4 medium flat
10	986269	8	Washer 5/16 medium flat
11	5560004	8	Nut 1/4-20 self locking
12	5560031	8	Nut 5/16-18 self locking
13	9920029	21	Plastic track link
14	9920030	1	End bracket kit

Jib

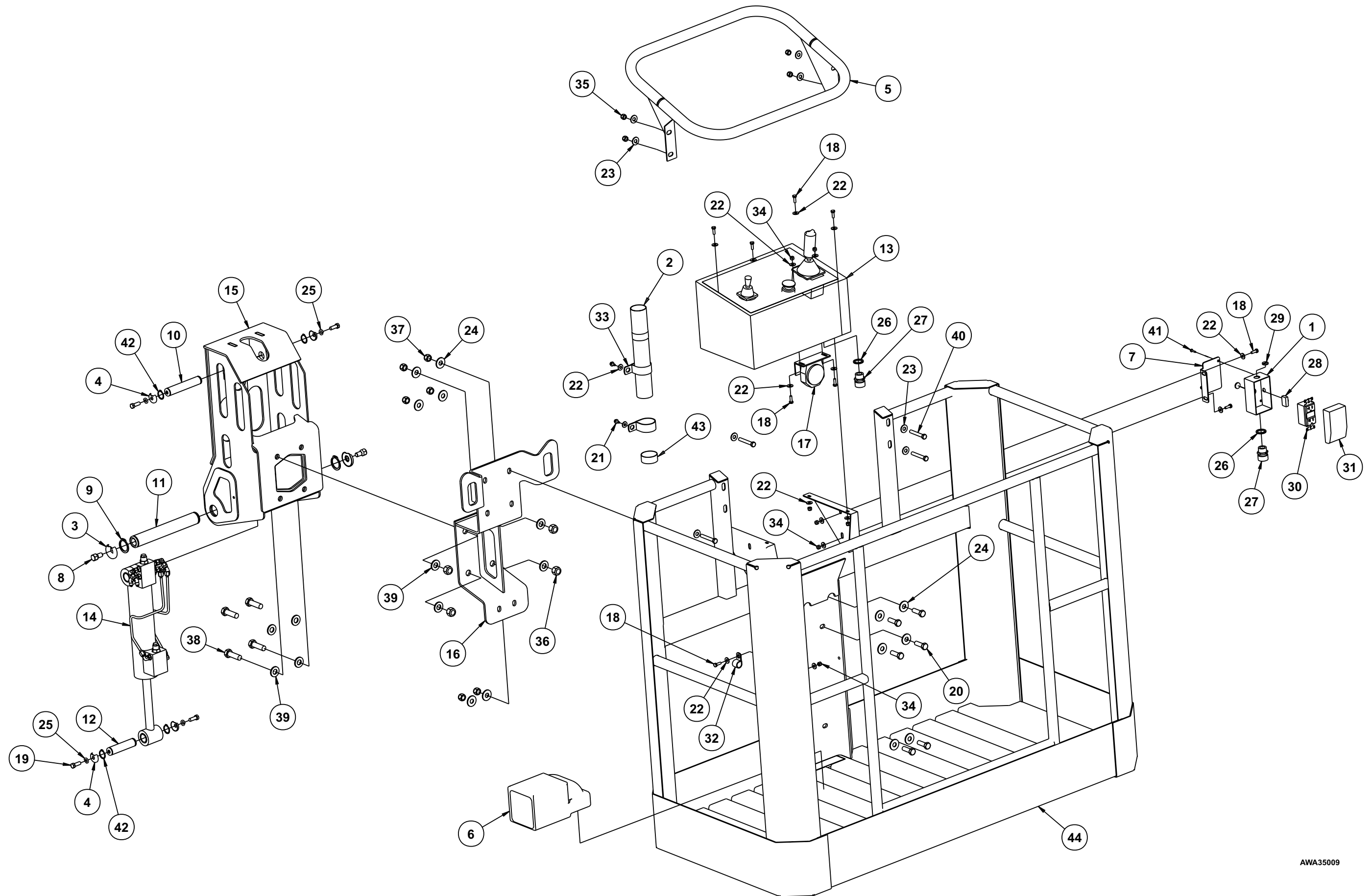
item	part no	qty	description
	0350762	1	Jib, complete
1	0082521	4	Banjo pin
2	0350535-99	1	Jib
3	0350547-99	1	Jib with studs
4	0350591-99	1	Jib hose cover
5	0350595-99	1	Bracket, jib
6	0350659	1	Jib cylinder - (see page 2-11 for parts breakdown)
7	0350886	4	Pin
8	970469	2	Capscrew 3/8-16 x 1 inch long hex head grade 5
9	970889	4	Capscrew 1/2-13 x 1 inch long hex head grade 5
10	986299	2	Washer 3/8 medium flat
11	987119	2	Washer 3/8 medium lock



AWA35018

<https://truckmanualshub.com/>
Platform, non-rotating

item	part no	qty	description
1	0074379	1	Electrical outlet box
2	0101397	1	Document tube
3	0160765-99	2	Pin lock
4	0160972-99	4	Pin lock
5	0161652-99	1	Upper control box handrail
6	0161680	1	Platform foot switch - (see page 3-16 for parts breakdown)
7	0162060-99	1	Mounting plate
8	300729	2	Capscrew, special
9	302323	2	Retaining ring
10	0350619	1	Pin
11	0350620	1	Pin
12	0350623	1	Pin
13	0350637-89	1	Upper control box - (see page 3-3 for parts breakdown)
14	0350660	1	Slave level cylinder - (see 2-19 for parts breakdown)
15	0350670-99	1	Level bracket
16	0350674-99	1	Platform mounting bracket
17	480652	1	Siren, tilt alarm
18	970029	9	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
19	970469	4	Capscrew 3/8-16 x 1 inch long hex head grade 5
20	970909	6	Capscrew 1/2-13 x 1-1/2 inch long hex head grade 5
21	978629	2	Capscrew 1/4-20 x 1/2 inch long hex head self tapping
22	986019	20	Washer 1/4 medium flat
23	986299	8	Washer 3/8 medium flat
24	986359	12	Washer 1/2 medium flat
25	987119	4	Washer 3/8 medium lock
26	3040110	2	Connector locknut
27	3040116	2	Connector
28	3040252	1	Circuit breaker, 15 amp capacity
29	3040272	2	Plug
30	3040624	1	Electrical outlet, GFCI - 20 amp capacity
31	3040625	1	Cover, GFCI electrical outlet
32	5093004	1	Clamp
33	5093013	2	Clamp
34	5560004	9	Nut 1/4-20 self locking
35	5560033	4	Nut 3/8-16 self locking
36	5560036	4	Nut 5/8-11 self locking
37	5560039	6	Nut 1/2-13 self locking
38	5560051	4	Capscrew 5/8-11 self locking
39	5560169	8	Washer 5/8 hard flat ASTM-F436
40	5560247	4	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5
41	5560258	2	Machine screw #8 x 3/4 inch long self tapping
42	5591100	4	Snap ring
43	7050003	2	Cap, document tube
44		1	Platform - (consult factory)

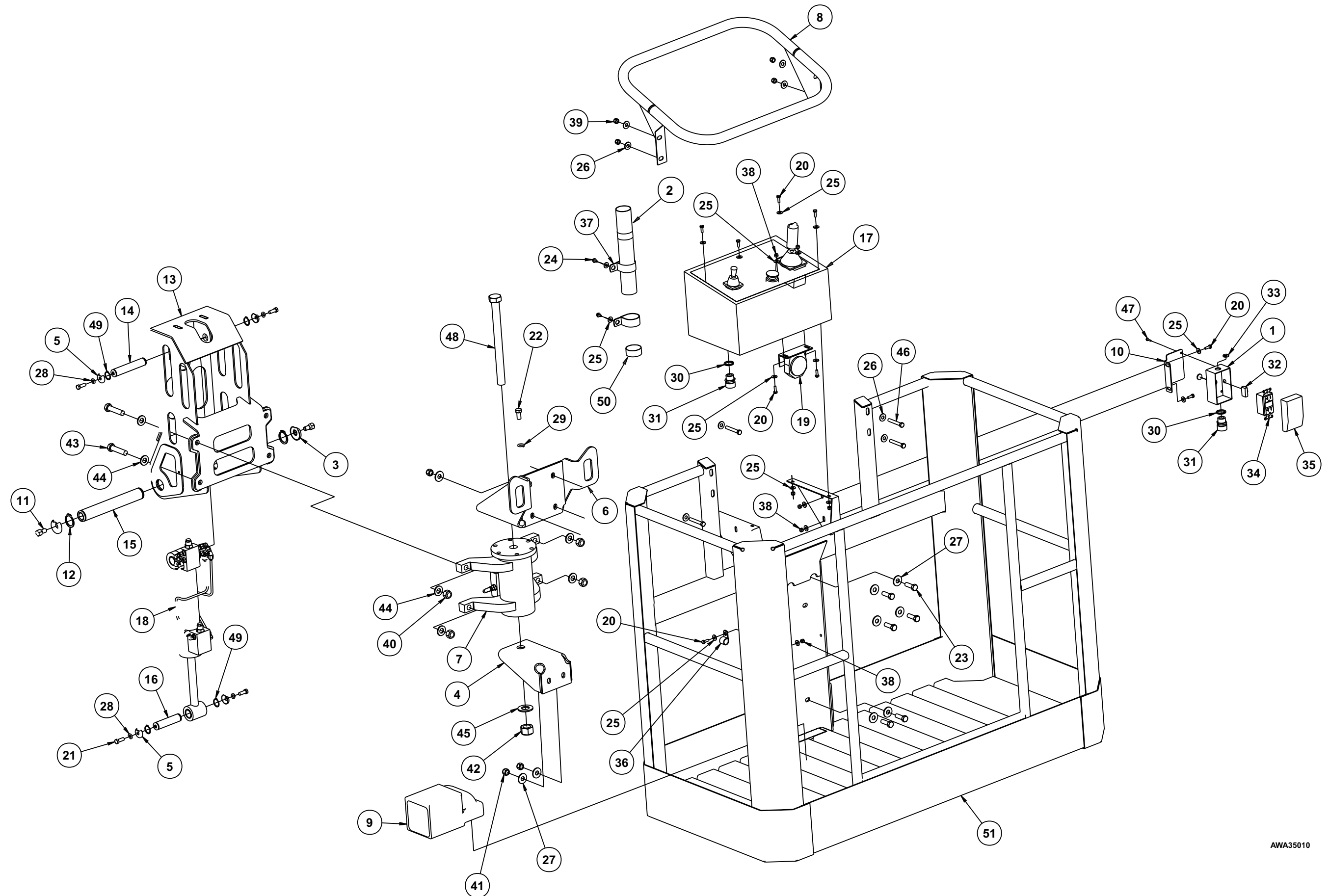


AWA35009

TITLE Platform, non-rotating

Snorkel model AB38J



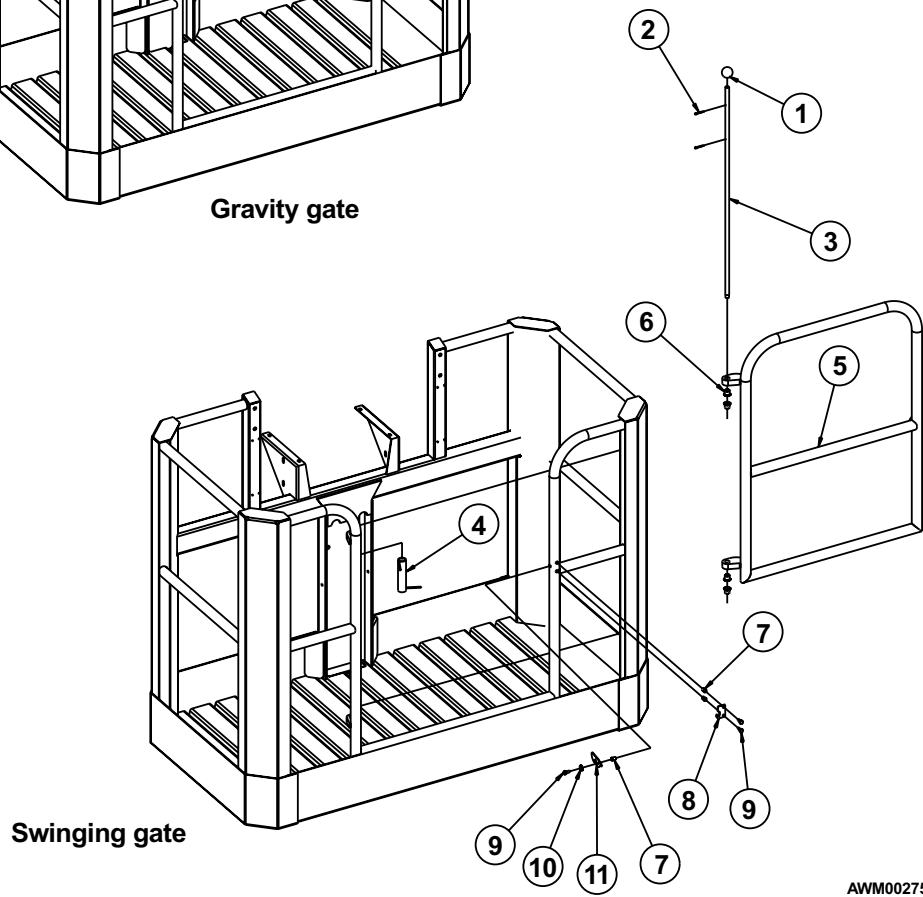
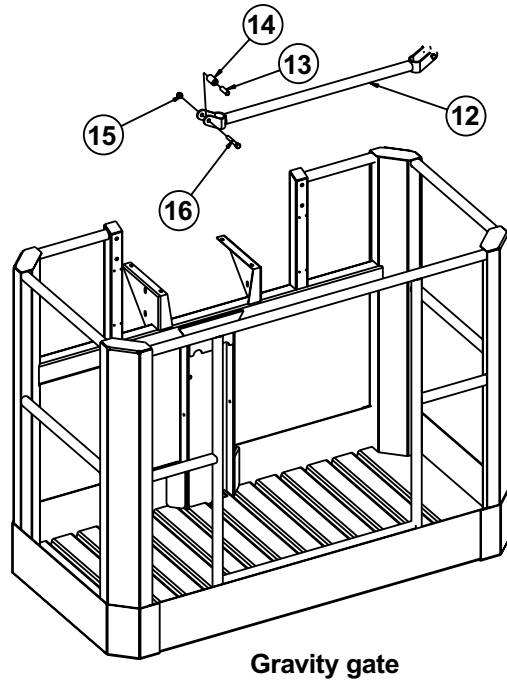


AWA35010

Platform, rotating

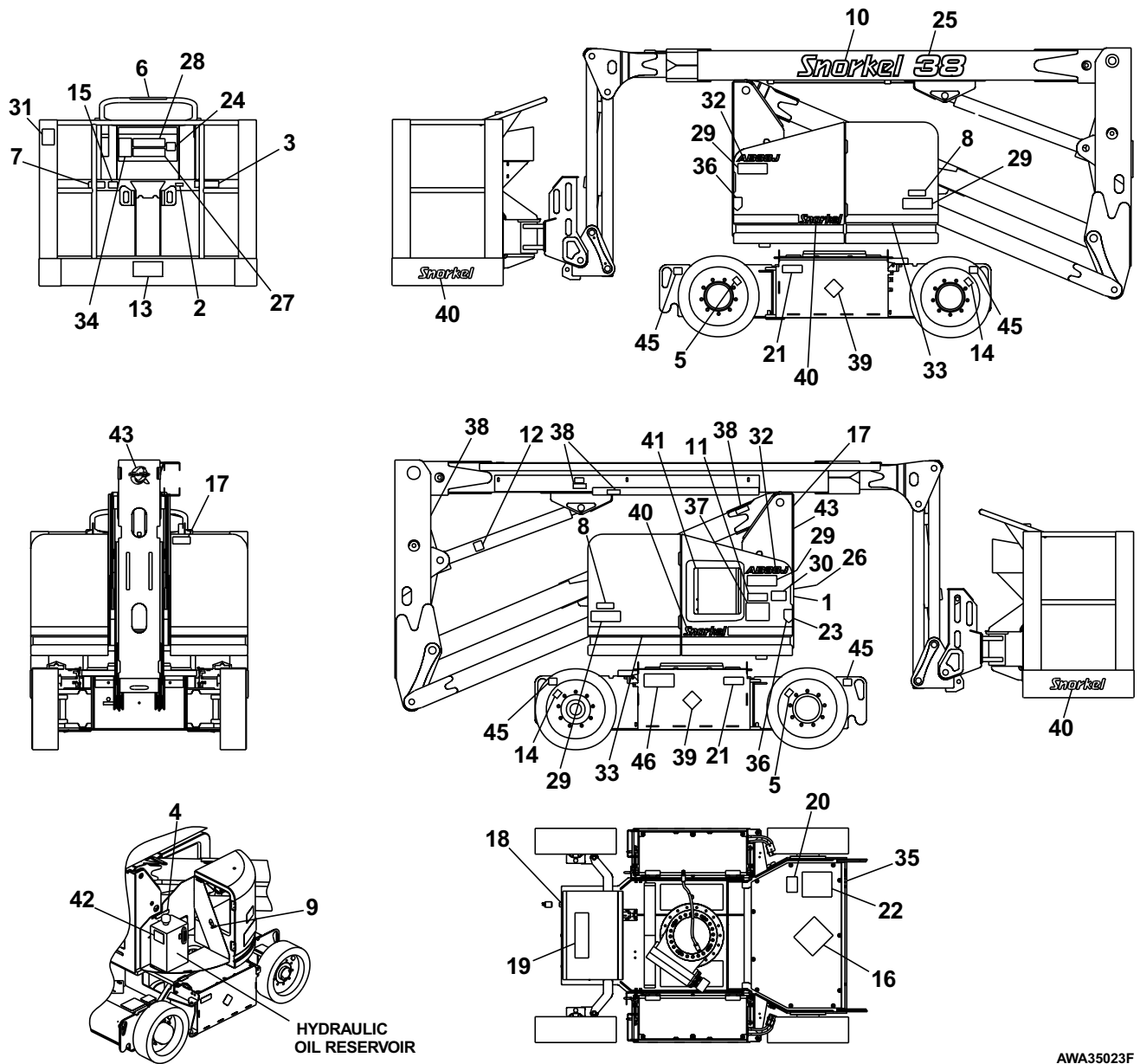
item	part no	qty	description
1	0074379	1	Electrical outlet box
2	0101397	1	Document tube
3	0160765-99	2	Pin lock
4	0160781-99	1	Platform mounting bracket, lower
5	0160972-99	4	Pin lock
6	0161044-99	1	Platform mounting bracket, upper
7	0161526	1	Platform rotator - (see page 1-37 for parts breakdown)
8	0161652-99	1	Upper control box handrail
9	0161680	1	Platform foot switch - (see page 3-16 for parts breakdown)
10	0162060-99	1	Mounting plate
11	300729	2	Capscrew, special
12	302323	2	Retaining ring
13	0350612-99	1	Level bracket
14	0350619	1	Pin
15	0350620	1	Pin
16	0350623	1	Pin
17	0350637-89	1	Upper control box - (see page 3-3 for parts breakdown)
18	0350660	1	Slave level cylinder - (see page 2-19 for parts breakdown)
19	480652	1	Siren, tilt alarm
20	970029	9	Capscrew 1/4-20 x 3/4 inch long hex head grade 5
21	970469	4	Capscrew 3/8-16 x 1 inch long hex head grade 5
22	970889	6	Capscrew 1/2-13 x 1 inch long hex head grade 5
23	970909	6	Capscrew 1/2-13 x 1-1/2 inch long hex head grade 5
24	978629	2	Capscrew 1/4-20 x 1/2 inch long hex head self tapping
25	986019	20	Washer 1/4 medium flat
26	986299	8	Washer 3/8 medium flat
27	986359	12	Washer 1/2 medium flat
28	987119	4	Washer 3/8 medium lock
29	987139	6	Washer 1/2 medium lock
30	3040110	2	Connector locknut
31	3040116	2	Connector
32	3040252	1	Circuit breaker, 15 amp capacity
33	3040272	2	Plug
34	3040624	1	Electrical outlet, GFCI - 20 amp capacity
35	3040625	1	Cover, GFCI electrical outlet
36	5093004	1	Clamp
37	5093013	2	Clamp
38	5560004	9	Nut 1/4-20 self locking
39	5560033	4	Nut 3/8-16 self locking
40	5560036	4	Nut 5/8-11 self locking
41	5560039	6	Nut 1/2-13 self locking
42	5560043	1	Nut 1-8 self locking
43	5560149	4	Capscrew special 5/8-11 self locking
44	5560169	8	Washer 5/8 hard flat ASTM-F436
45	5560172	2	Washer 1 inch medium flat
46	5560247	4	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5
47	5560258	2	Machine screw #8 x 3/4 inch long self tapping
48	5560281	1	Capscrew 1-8 x 12 inch long hex head grade 5
49	5591100	4	Snap ring
50	7050003	2	Cap, document tube
51		1	Platform - (consult factory)

item	part no	qty	description
1	2667500	1	Knob, gate hinge pin
2	988179	2	Cotter pin 1/8 inch diameter x 1 inch long
3	0322724	1	Pin, gate hinge
4	0071837	1	Spring, torsion
5	0160970-89	1	Swinging gate, aluminum platform
6	2250007	4	Bearing
7	984529	3	Nut sert 1/4-20
8	0161472-89	1	Latch stop
9	970099	3	Capscrew 1/4-20 x 5/8 inch long hex head grade 5
10	986019	1	Washer 1/4 medium flat
11	300891-89	1	Door latch
12	0161177-89	1	Gravity gate
13	0161184-89	2	Roller spacer, aluminum gravity gate
14	0161182-89	2	Roller, aluminum gravity gate
15	5560033	2	Nut 3/8-16 self locking
16	970529	2	Capscrew 3/8-16 x 2-1/2 inch long hex head grade 5



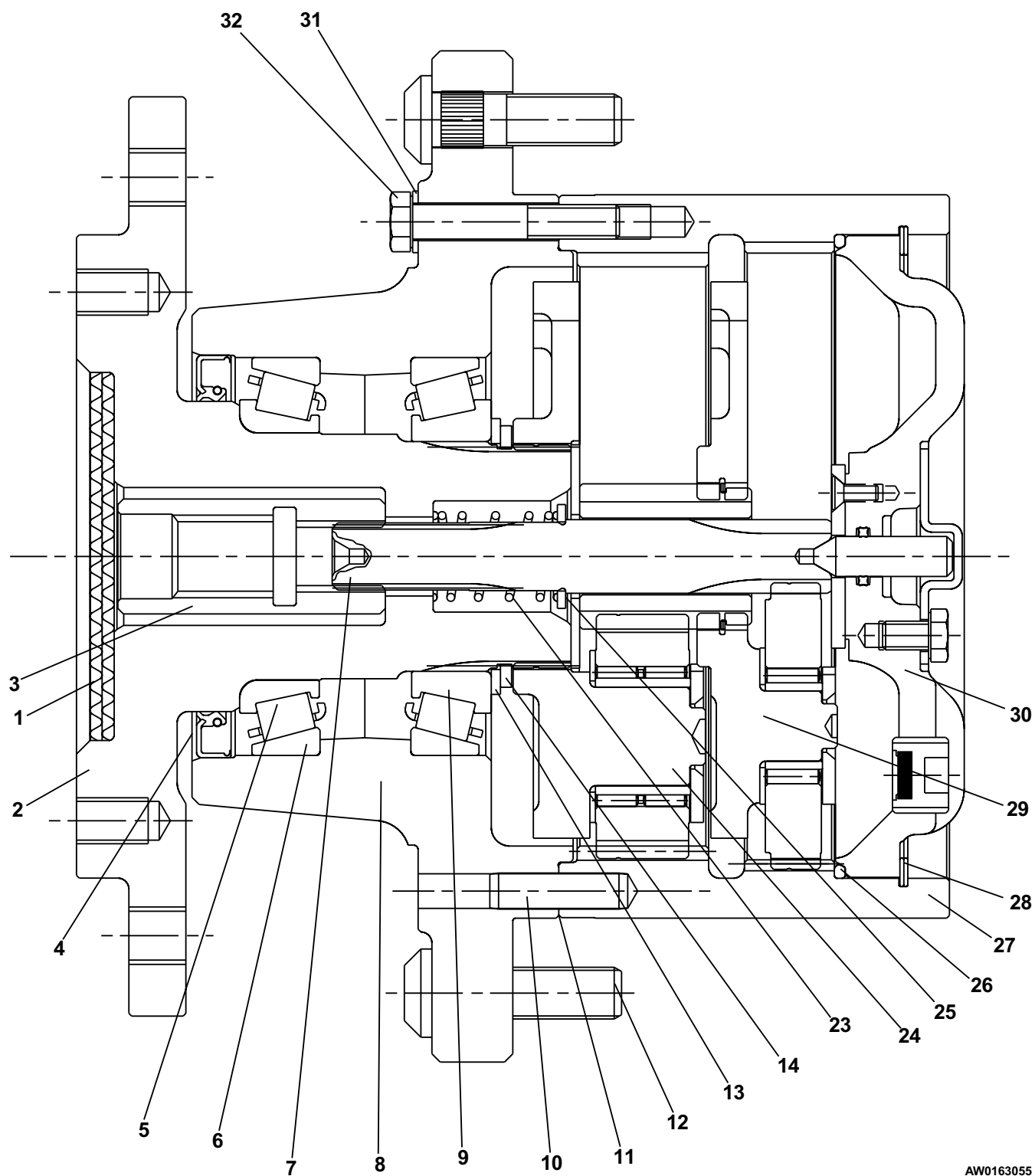
AWM00275

item	part no	qty	description
1	0070901	1	Placard, caution serial number
2	0070921	1	Placard, 125 volts 15 amps
3	0071425	1	Placard, platform identification
4	0071927	1	Decal, hydraulic oil
5	0072277	2	Placard, lug nut torque
6	0072531	1	Decal, danger electrical hazard
7	0073224	1	Decal, notice manual reorder
8	0073298	2	Placard, danger foam filled tires
9	0073492	1	Decal, rotate while greasing
10	0074908	1	Decal, Snorkel brand logo
11	0074209	1	Placard, pre-start instructions
12	0074311	6	Decal, danger cylinder failure - (1 per cylinder)
13		1	Placard, platform capacity - (consult factory)
14	0101384	2	Decal, lug nut torque
15	0150448	1	Decal, attach fall restraint
16	0150452	1	Decal, directional arrows forward/reverse
17	0150602	2	Decal, danger descending boom
18	0150606	1	Decal, 125 volt 15 amp power to platform
19	0151917	1	Decal, directional arrows
20	0161213	1	Decal, danger electrical hazard
21	0161215	2	Decal, battery service instructions
22	0161216	1	Decal, battery charging instructions
23	0161329	1	Decal, patents applied for
24	0161819	1	Decal, emergency lowering procedures
25	0351049	1	Decal, 38 logo
26	0181562	1	Placard, ANSI standard
27	0181654	1	Decal, danger inspect unit
28	0181655	1	Decal, caution move control handle slowly
29	0323896	4	Decal, danger electrical hazard
30	0323897	1	Decal, danger you must not operate
31	0323899	1	Decal, danger electrical hazard
32	0351045	2	Decal, AB38J logo
33	0074920	2	Decal, 3 inch stripe
34	0350812	2	Decal, error codes
35	0350847	1	Decal, power on/charging
36	0350870	2	Decal, guardian system
37	0350873	1	Decal, emergency lowering procedure symbols
38	451986	4	Placard, danger do not alter switch
39	467376	2	Decal, EE logo
40	569295	4	Decal, Snorkel brand logo
41	5560286	1	Trim lock 12 inch long
42	7030003	1	Decal, lube recommendations
43	7030004	2	Decal, Omniquip logo
44	7050004	1	Record pouch
45	0083427	4	Decal, lift/tie down symbol
46	0350917	1	Decal, lift/tie down location



AWA35023F

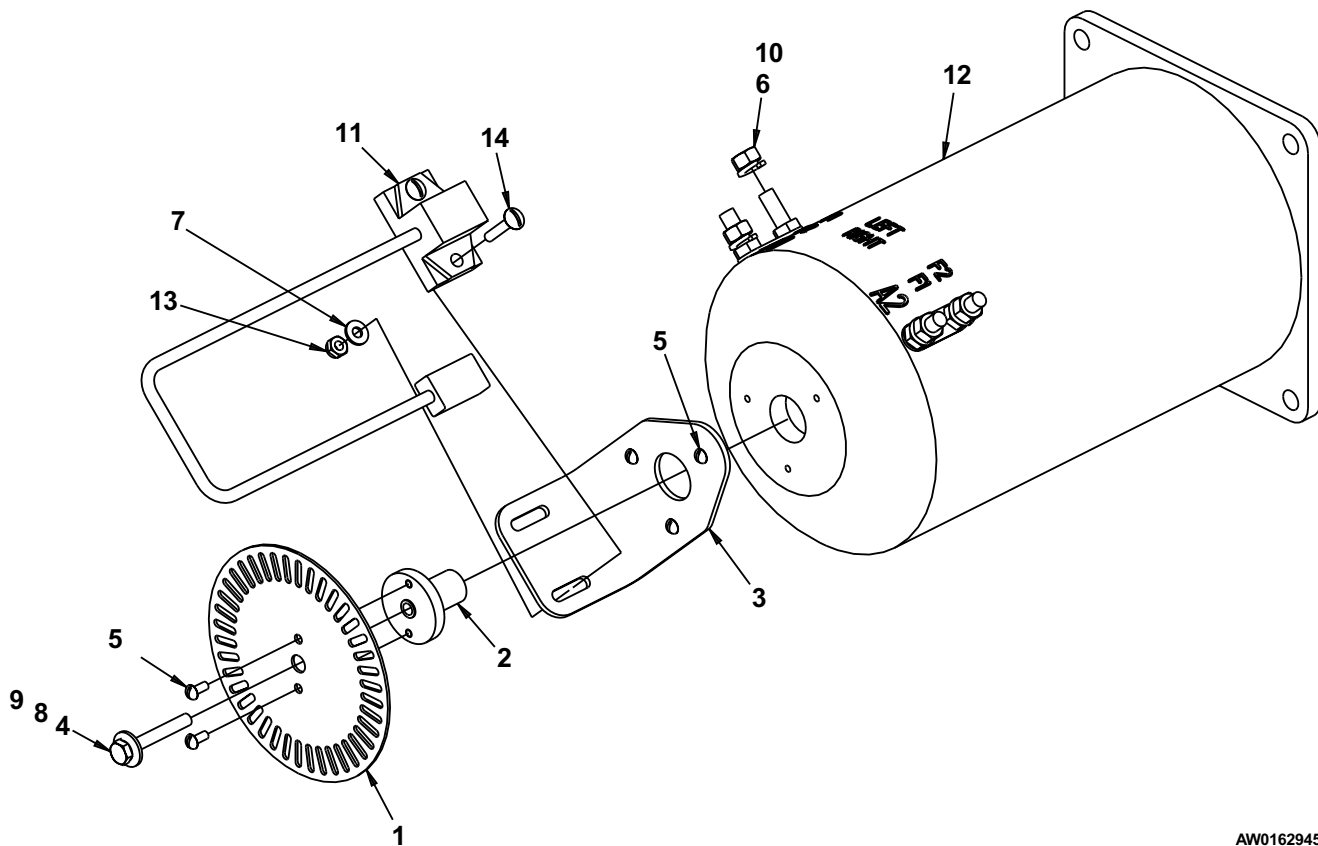
item	part no	qty	description
	0163055-99	1	Gear hub - Auburn
1	8010292	1	Shipping plug
2	8010312	1	Spindle
3	8010313	1	Coupling
4	8010026	1	Oil seal
5	8010023	1	Bearing cone
6	8010024	2	Bearing cup
7	8010314	1	Input shaft
8	8010315	1	Hub
9	8010310	1	Bearing cone
10	8010296	4	Pin, coiled spring
11	8010261	1	Sealing compound
12	8010311	9	Wheel bolt
13	8010293	1	Splined spacer
14	8010298	1	Retaining ring
15	8010299	1	Retaining ring
16	8010300	1	Retaining ring
17	8010301	1	Retaining ring
18	8010302	1	Retaining ring
19	8010303	1	Retaining ring
20	8010304	1	Retaining ring
21	8010305	1	Retaining ring
22	8010306	1	Retaining ring
23	8010308	1	Disengage spring
24	8010295	1	Secondary carrier
25	8010309	1	Thrust washer
26	8010307	1	O-ring
27	8010294	1	Gear, ring
28	8010297	1	Retaining ring
29	8010317	1	Primary carrier
30	8010316	1	Cover
31	8010105	6	Flat washer
32	8010291	6	Capscrew hex head



AW0163055

<https://truckmanualshub.com/>
Motor, electric drive

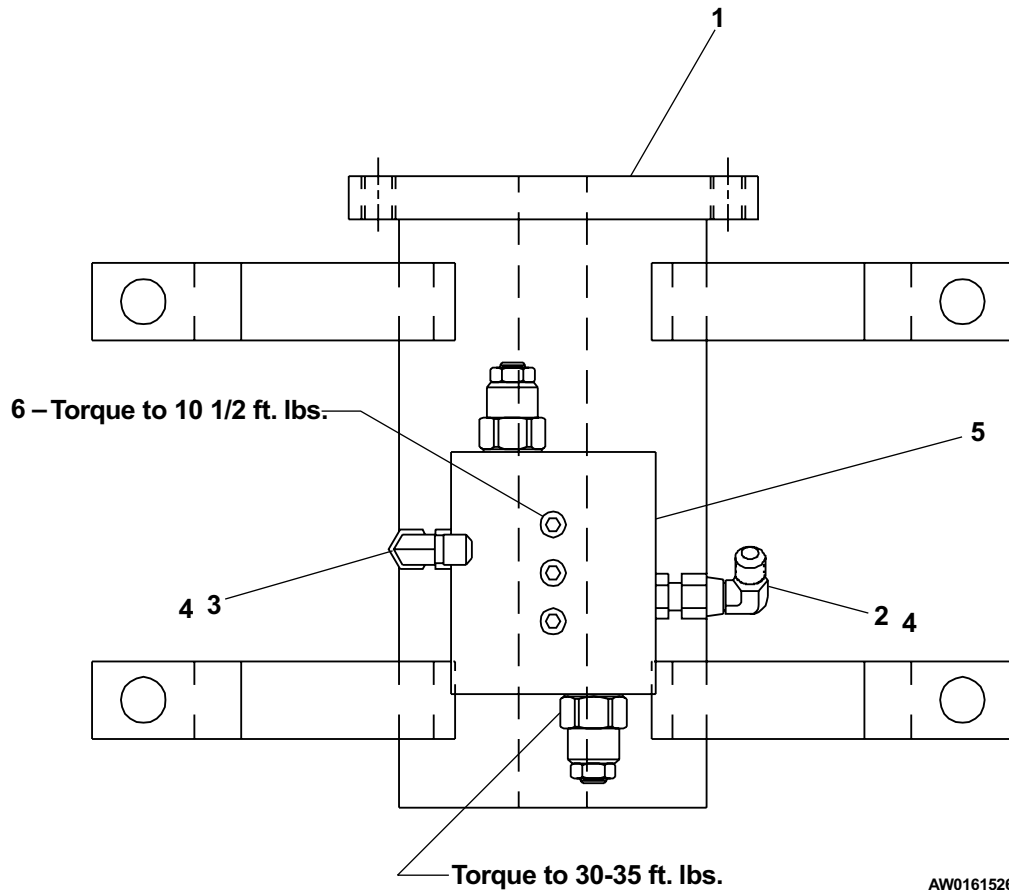
item	part no	qty	description
	0162945	1	Motor, electric drive
1	0163052	1	Speed sensor wheel
2	0163053	1	Speed sensor hub
3	0163061	1	Speed sensor bracket
4	969989	1	Capscrew 1/4-20 x 1-3/4 inch long hex head grade 5
5	974429	5	Machine screw #8-32 x 3/8 inch long round head
6	984089	4	Nut 5/16-18 hex
7	986009	2	Washer #10 medium flat
8	986019	1	Washer 1/4 medium flat
9	987099	1	Washer 1/4 medium lock
10	987109	4	Washer 5/16 medium lock
11	3020222	1	Speed sensor hall effect
12	3080038	1	Electric motor
13	5560034	2	Nut #10-24 self locking
14	5560673	2	Machine screw #10-24 x 1 inch long truss head



AW0162945

Platform rotator

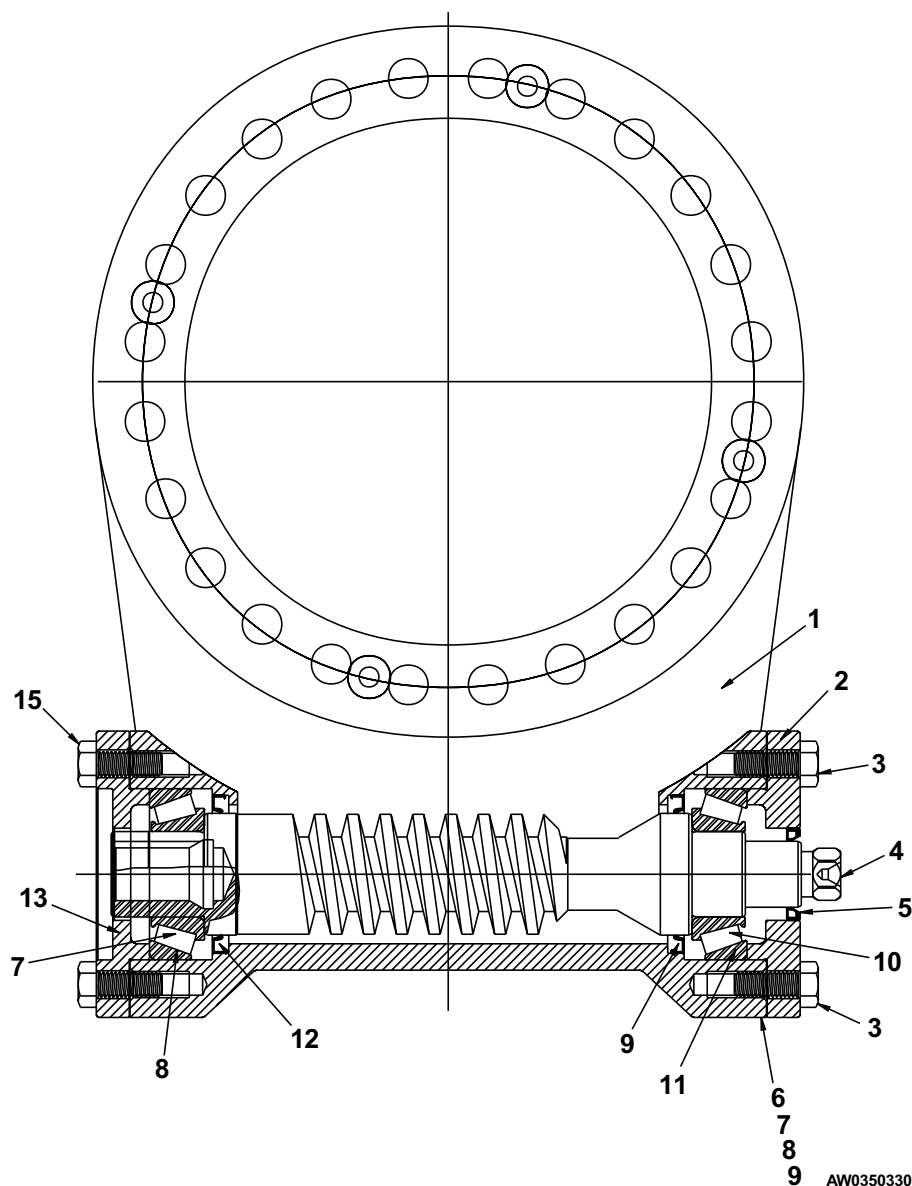
item	part no	qty	description
	0161526	1	Platform rotator
1	0161808-99	1	Hydraulic platform rotator - (see page 2-26 for parts breakdown)
2	5065703	1	Straight thread adapter
3	5037003	2	Swivel nut 90° elbow
4	5035303	1	Straight thread 90° elbow
5	6018912	1	Dual counterbalance valve - (factory preset, do not reset)
	6010794	1	Replacement cartridge
6	978419	3	Capscrew 1/4-20 x 1-1/2 inch long socket head



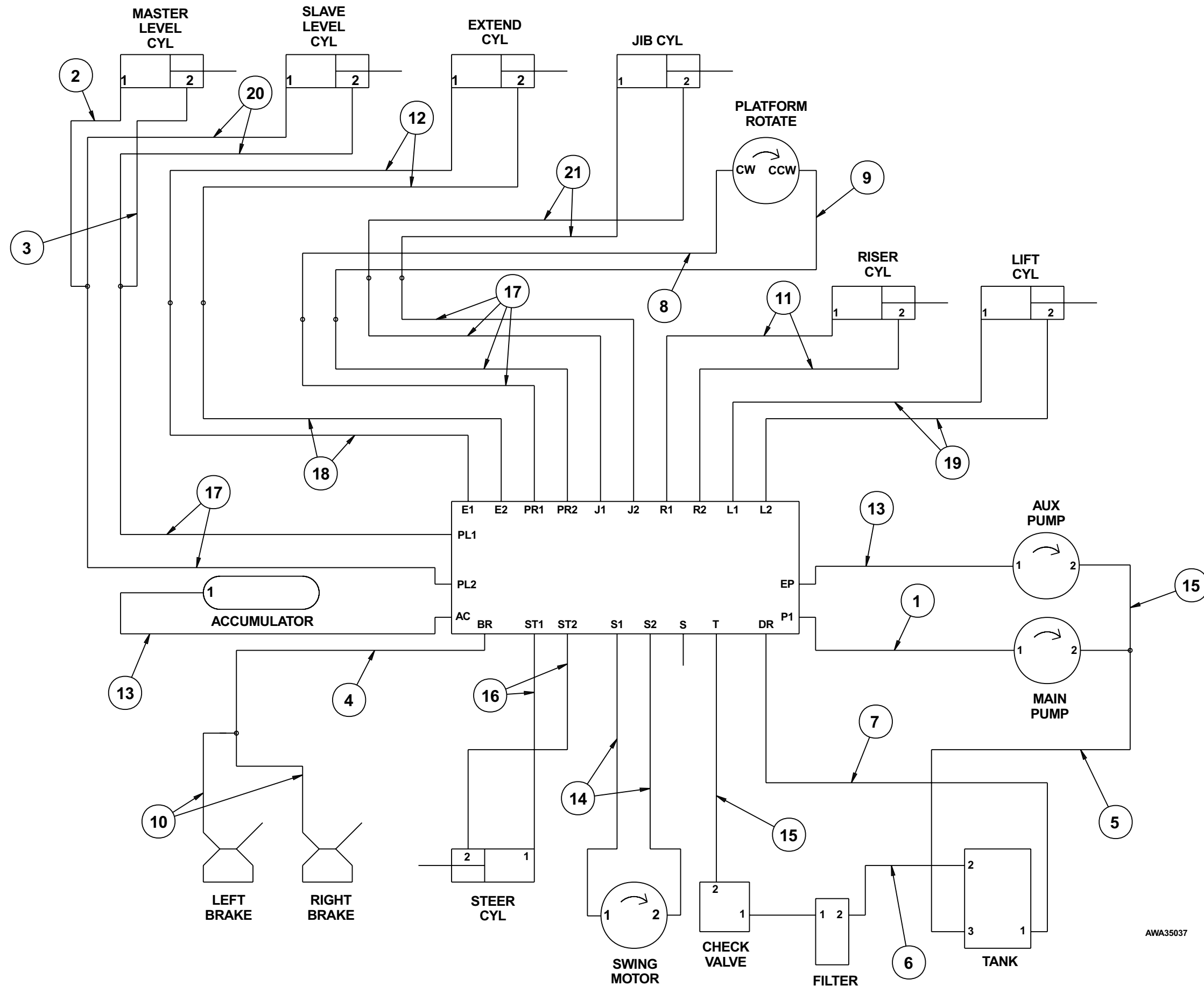
AW0161526

<https://truckmanualshub.com/>
Worm gear box, Perfection Gear

item	part no	qty	description
	0350330	1	Worm gear box, Perfection Gear
	0350935	1	Seal repair kit - (kit includes items 5, 6, 7, 8, 9 and 12)
1	0350922	1	Housing
2	0350923	1	Cap
3	0350924	2	Capscrew 1/2-13 x 1-1/2 inch long hex head grade 8
4	0350925	1	Ground worm
5	0172039	1	Oil seal
6	0350926	3	Worm cap shim, .010 inch thick
7	0350927	3	Worm cap shim, .005 inch thick
8	0350928	3	Worm cap shim, .0075 inch thick
9	0350929	1	Worm cap shim, .020 inch thick
10	0350930	2	Roller bearing cone
11	0350931	2	Roller bearing cup
12	0350932	2	Oil seal
13	0350933	1	Motor adapter
14	0163021	2	Grease fitting 1/8 NPT
15	0350934	2	Capscrew 1/2-13 x 1-1/4 inch long hex head grade 5



item	part no	qty	description
1	0020273	1	3/8 inch hydraulic hose
2	0020280	1	1/4 inch hydraulic hose
3	0070765	1	1/4 inch hydraulic hose
4	0070911	1	1/4 inch hydraulic hose
5	0151213	1	1/2 inch hydraulic hose
6	0180779	1	5/8 inch hydraulic hose
7	0322684	1	1/4 inch hydraulic hose
8	0350837	1	3/16 inch hydraulic hose
9	0350838	1	3/16 inch hydraulic hose
10	0050137	2	1/4 inch hydraulic hose
11	0051189	2	3/8 inch hydraulic hose
12	0070764	2	3/8 inch hydraulic hose
13	0070768	2	1/4 inch hydraulic hose
14	0070786	2	3/8 inch hydraulic hose
15	0073040	2	1/2 inch hydraulic hose
16	0100422	2	3/8 inch hydraulic hose
17	0101447	6	1/4 inch hydraulic hose
18	0350735	2	3/8 inch hydraulic hose
19	0350736	2	3/8 inch hydraulic hose
20	0350839	2	3/16 inch hydraulic hose
21	0350840	2	3/16 inch hydraulic hose



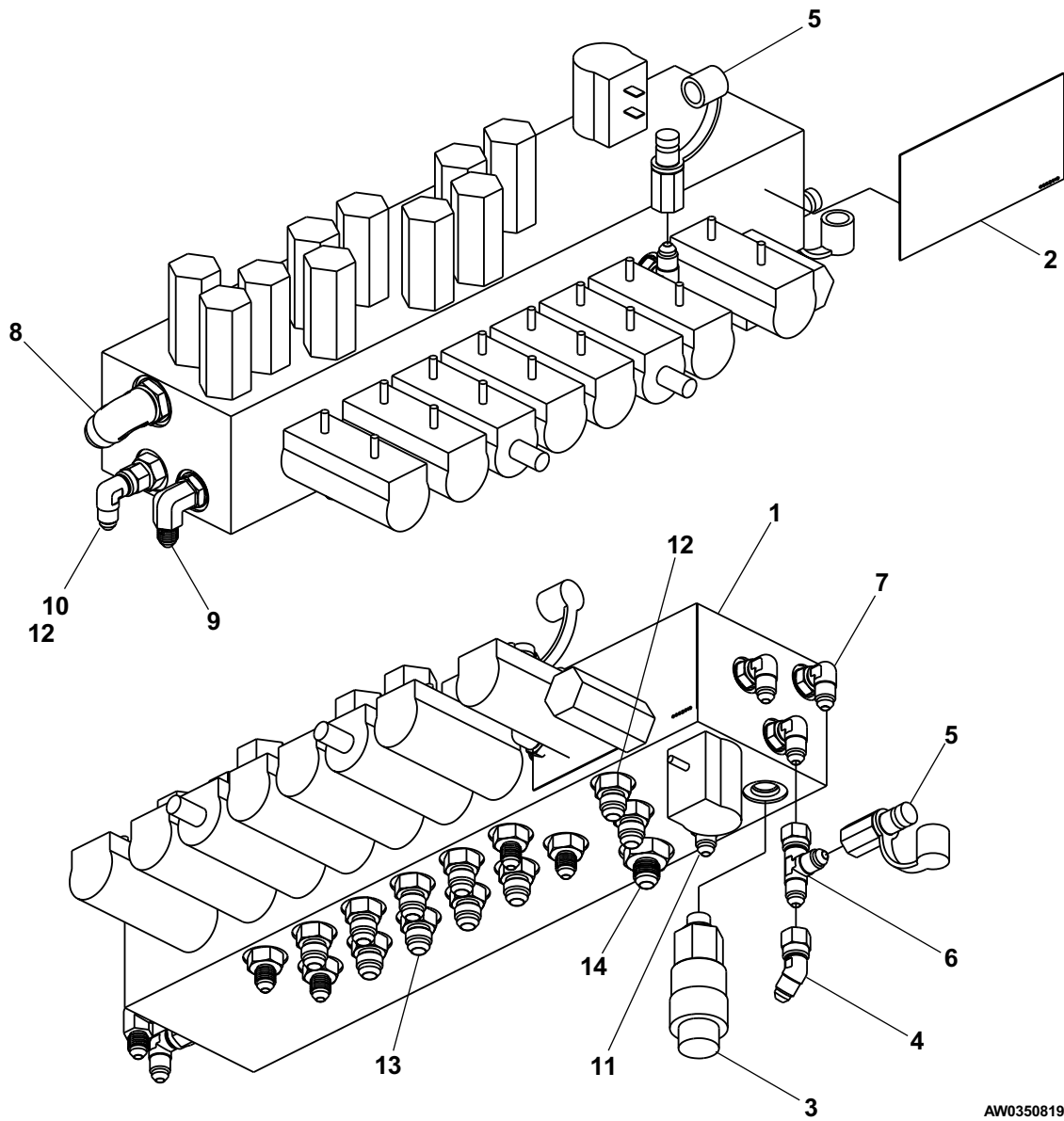
AWA35037

TITLE Hydraulic hoses

Snorkel model AB38J

<https://truckmanualshub.com/>
Control valve and fittings

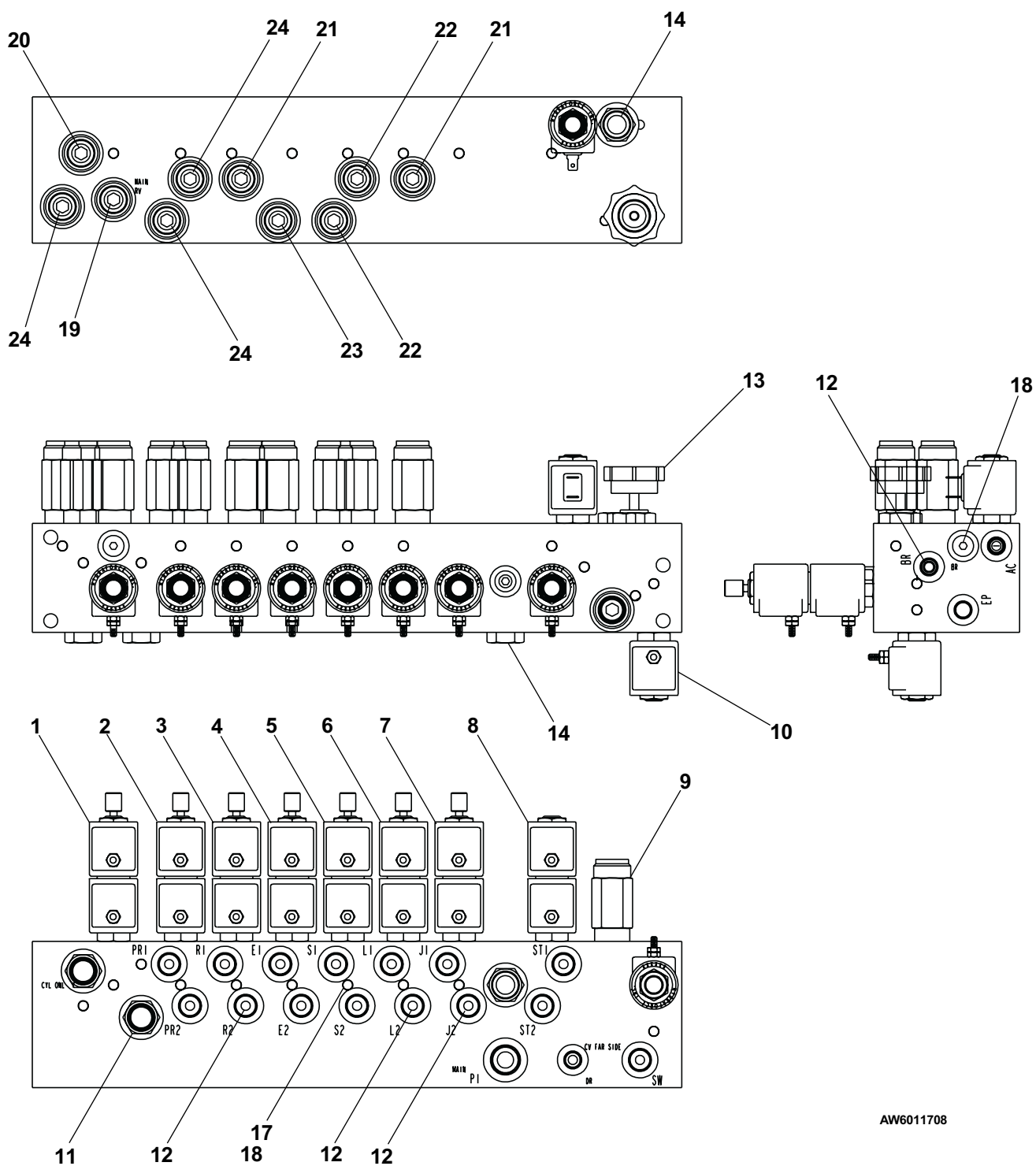
item	part no	qty	description
	0350819	1	Control valve and fittings
1	6011708	1	Control valve - (see page 2-8 for parts breakdown)
2	0082010	1	Decal set, non-proportional control valve
3	3020143	1	Pressure switch
4	5036903	1	Swivel nut 45° elbow
5	5070005	2	Diagnostic nipple
6	5036703	1	Swivel nut run tee
7	5035303	4	Straight thread 90° elbow
8	5035306	1	Straight thread 90° elbow
9	5035318	1	Straight thread 90° elbow
10	5037003	1	Swivel nut 90° elbow
11	5035703	1	Straight thread 45° elbow
12	5065705	5	Straight thread adapter
13	5065707	10	Straight thread adapter
14	5065708	1	Straight thread adapter



AW0350819

Control valve

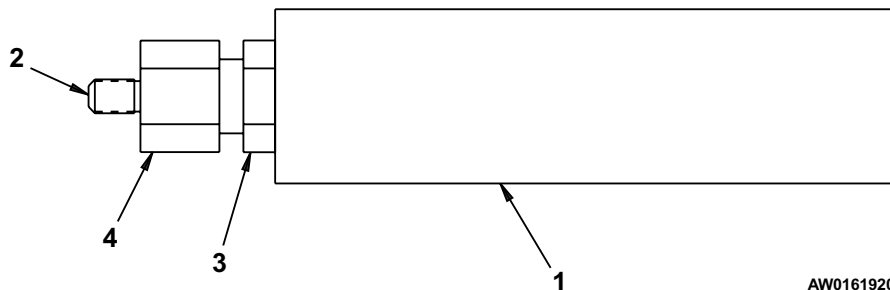
item	part no	qty	description
1	6011708	1	Control valve
1	6018940	1	Solenoid valve, platform level control
	3040473	1	Replacement solenoid coil, 10 volt DC
2	6018952	1	Solenoid valve, platform rotation
	3040473	1	Replacement solenoid coil, 10 volt DC
3	6018939	1	Solenoid valve, riser control
	3040473	1	Replacement solenoid coil, 10 volt DC
4	6018952	1	Solenoid valve, platform rotation
	3040473	1	Replacement solenoid coil, 10 volt DC
5	6018952	1	Solenoid valve, swing control
	3040473	1	Replacement solenoid coil, 10 volt DC
6	6018939	1	Solenoid valve, lift control
	3040473	1	Replacement solenoid coil, 10 volt DC
7	6018952	1	Solenoid valve, jib control
	040473	1	Replacement solenoid coil, 10 volt DC
8	6018952	1	Solenoid valve, steer control
	3040473	1	Replacement solenoid coil, 10 volt DC
9	6018946	1	Relief valve cartridge
10	6018943	1	Solenoid valve, emergency power
	3040473	1	Replacement solenoid coil, 10 volt DC
11	6018941	2	Pilot check valve
	6010996	1	Seal repair kit
12	6018948	4	Orifice plug, .035 inch diameter
13	6018944	1	Needle valve
14	6018942	2	Check valve cartridge
15	6018945	1	Solenoid valve
	6010997	1	Seal repair kit
	585436	1	Replacement solenoid coil, 10 volt DC
16	6018950	1	Flush head o-ring plug
17	6018953	1	Set screw
18	26018949	3	Flush head o-ring plug
19	6010728	1	Relief valve
	8080125	1	Seal repair kit
20	6018937	2	Relief valve
21	6018936	2	Relief valve
22	6018938	2	Relief valve
23	6018947	1	Relief valve
24	6018951	2	Relief valve



AW6011708

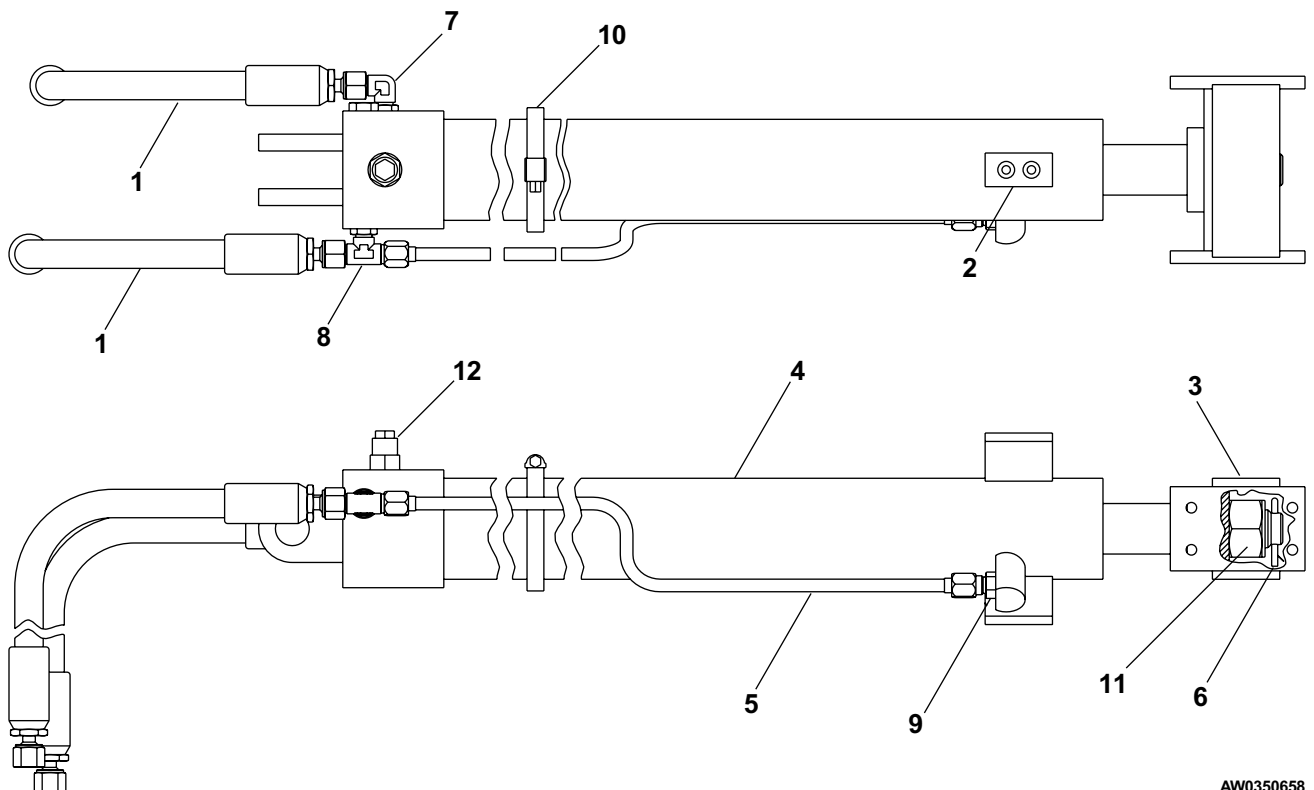
Accumulator

item	part no	qty	description
	0161920	1	Accumulator - (shipped charged)
1	6070006	1	Accumulator - (shipped uncharged, charge to 200 psi with dry nitrogen before use)
2	5064002	1	Tube end reducer
3	5065711	1	Straight thread adapter
4	5063906	1	Fitting nut



AW0161920

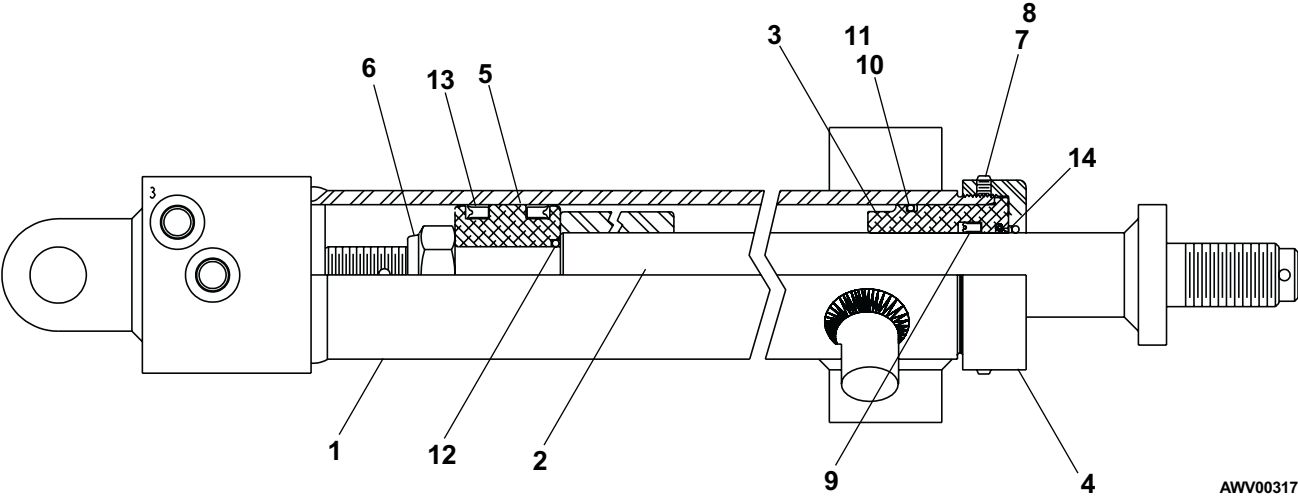
item	part no	qty	description
	0350658	1	Extend cylinder
1	0020279	2	3/8 inch hydraulic hose
2	0060089	2	Slide pad
3	0150088-99	1	Extend cylinder mount
4	0350336	1	Cylinder, extend - (see page 2-10 for Green cylinder)
5	0350716	1	Tube, extend cylinder
6	988369	1	Cotter pin 3/16 inch diameter x 1-1/2 inch long
7	5035305	1	Straight thread 90° elbow
8	5036505	1	Straight thread branch tee
9	5065707	1	Straight thread adapter
10	5550050	1	Clamp
11	5560164	1	Nut 1-1/4-7 self locking
12	6010294	1	Cartridge holding valve - (factory preset, do not reset)



AW0350658

Cylinder, extend - Green

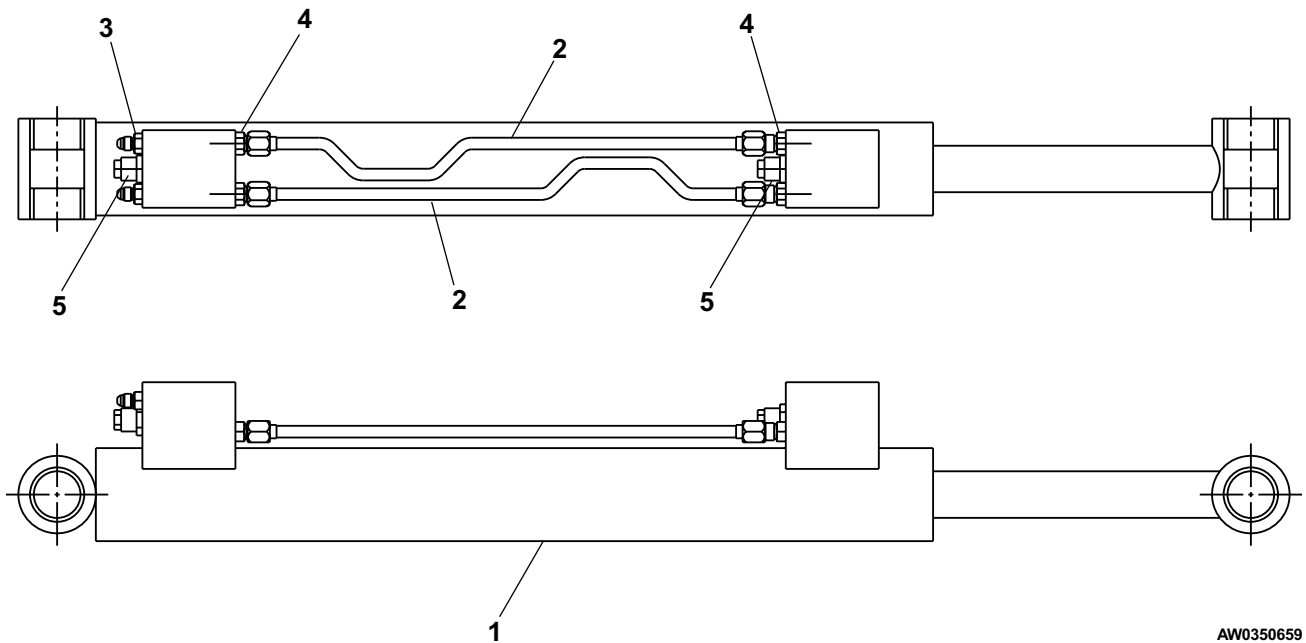
item	part no	qty	description
	0350336	1	Cylinder, extend - Green
	0350803	1	Seal repair kit - (kit includes items 9 through 14)
1		1	Cylinder barrel - (not sold separately)
2	6091064	1	Rod
3	6091065	1	Gland
4	6091062	1	Cap
5	6091073	1	Piston
6	6091066	1	Full lock nut
7	6091058	1	Nylon ball
8	5560339	1	Set screw
9	Kit item	1	Rod seal - (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	O-ring - (not sold separately)
13	Kit item	2	Piston ring - (not sold separately)
14	Kit item	1	Rod wiper - (not sold separately)



AWV00317

Jib cylinder

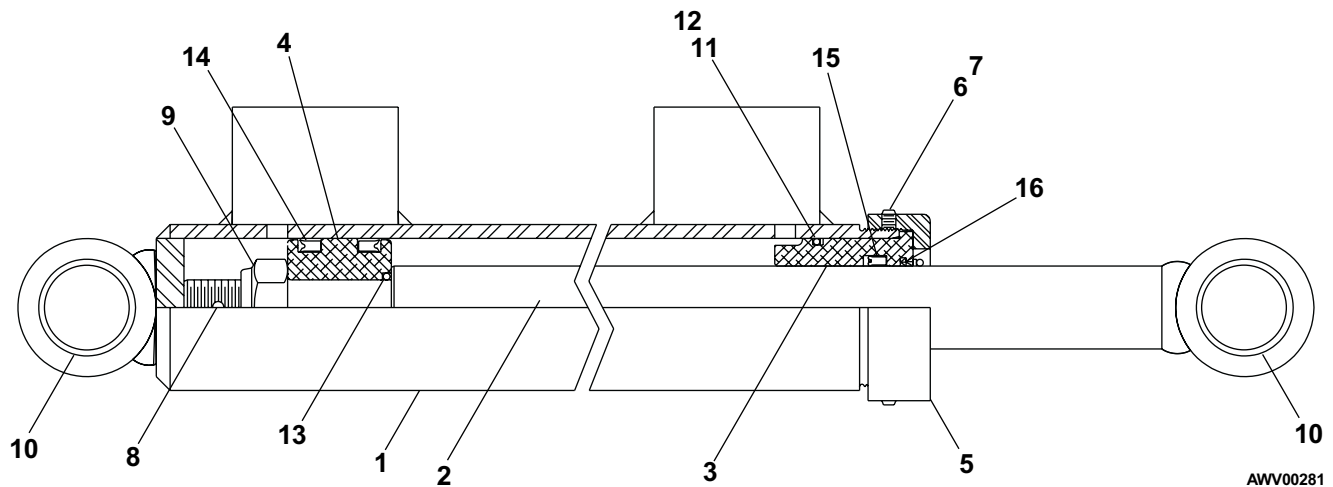
item	part no	qty	description
	0350659	1	Jib cylinder
1	0350332	1	Cylinder, jib - (see page 2-12 for Green cylinder)
2	0350851	2	Transfer tube
3	5065703	2	Straight thread adapter
4	5065734	4	Straight thread adapter
5	6018968	2	Counterbalance valve cartridge - (factory preset, do not reset)



AW0350659

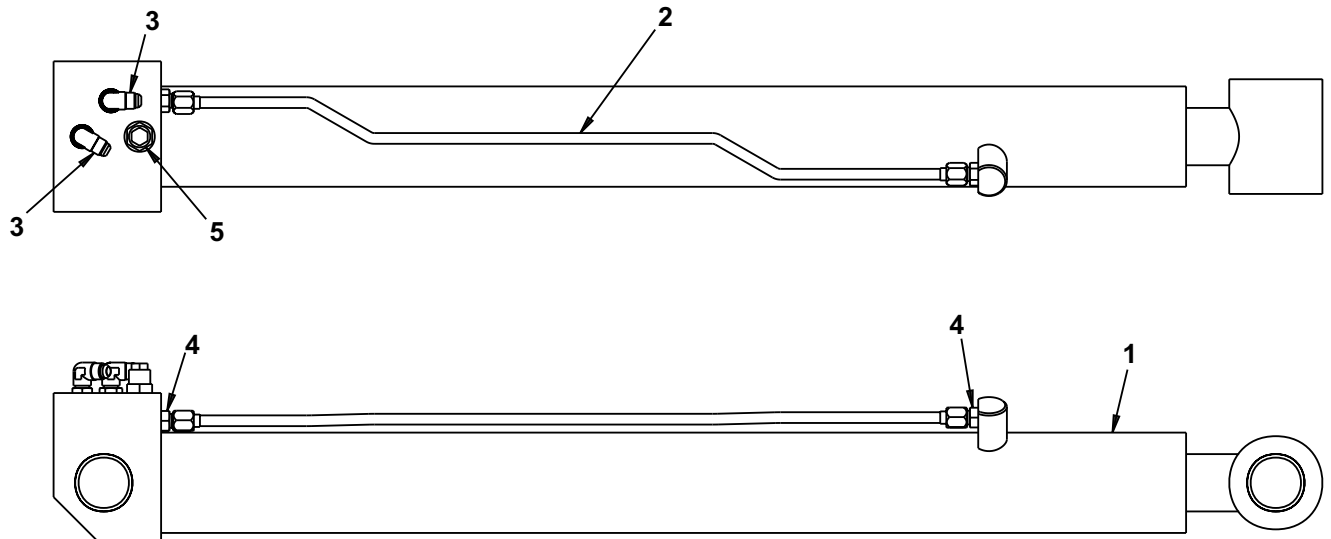
<https://truckmanualshub.com/>
Cylinder, Jib - Green

item	part no	qty	description
	0350332	1	Cylinder, Jib - Green
	0350805	1	Seal repair kit - (kit includes items 11 through 16)
1		1	Cylinder barrel - (not sold separately)
2	6091074	1	Rod
3	6091065	1	Gland
4	8070255	1	Piston
5	8070462	1	Cap
6	5560339	2	Set screw
7	6091058	2	Nylon ball
8	8070432	1	Cotter pin
9	6091066	1	Full lock nut
10	8070834	4	Bearing
11	Kit item	1	O-ring - (not sold separately)
12	Kit item	1	Back-up - (not sold separately)
13	Kit item	2	O-ring - (not sold separately)
14	Kit item	1	Piston seal - (not sold separately)
15	Kit item	1	Rod seal - (not sold separately)
16	Kit item	1	Rod wiper - (not sold separately)



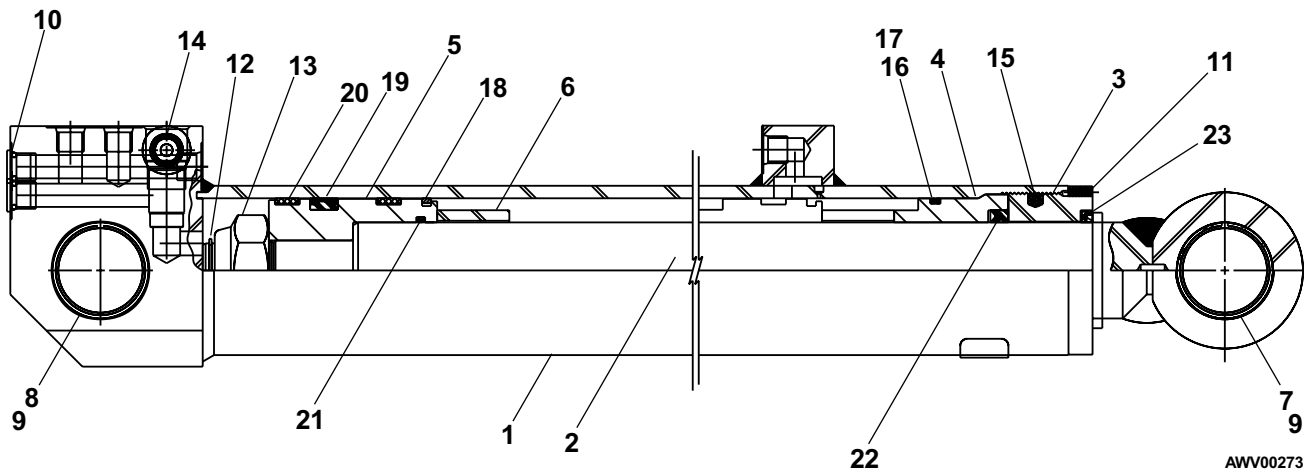
Lift cylinder

item	part no	qty	description
1	0350893-99	1	Lift cylinder
2	0350853	1	Cylinder, lift - (see page 2-14 for GBI cylinder)
3	0350894-99	1	Transfer tube
4	5035305	2	Straight thread 90° elbow
5	5065707	2	Straight thread adapter
6	6010488	1	Cartridge counterbalance valve - (factory preset, do not reset)
7	6091190	1	Seal repair kit



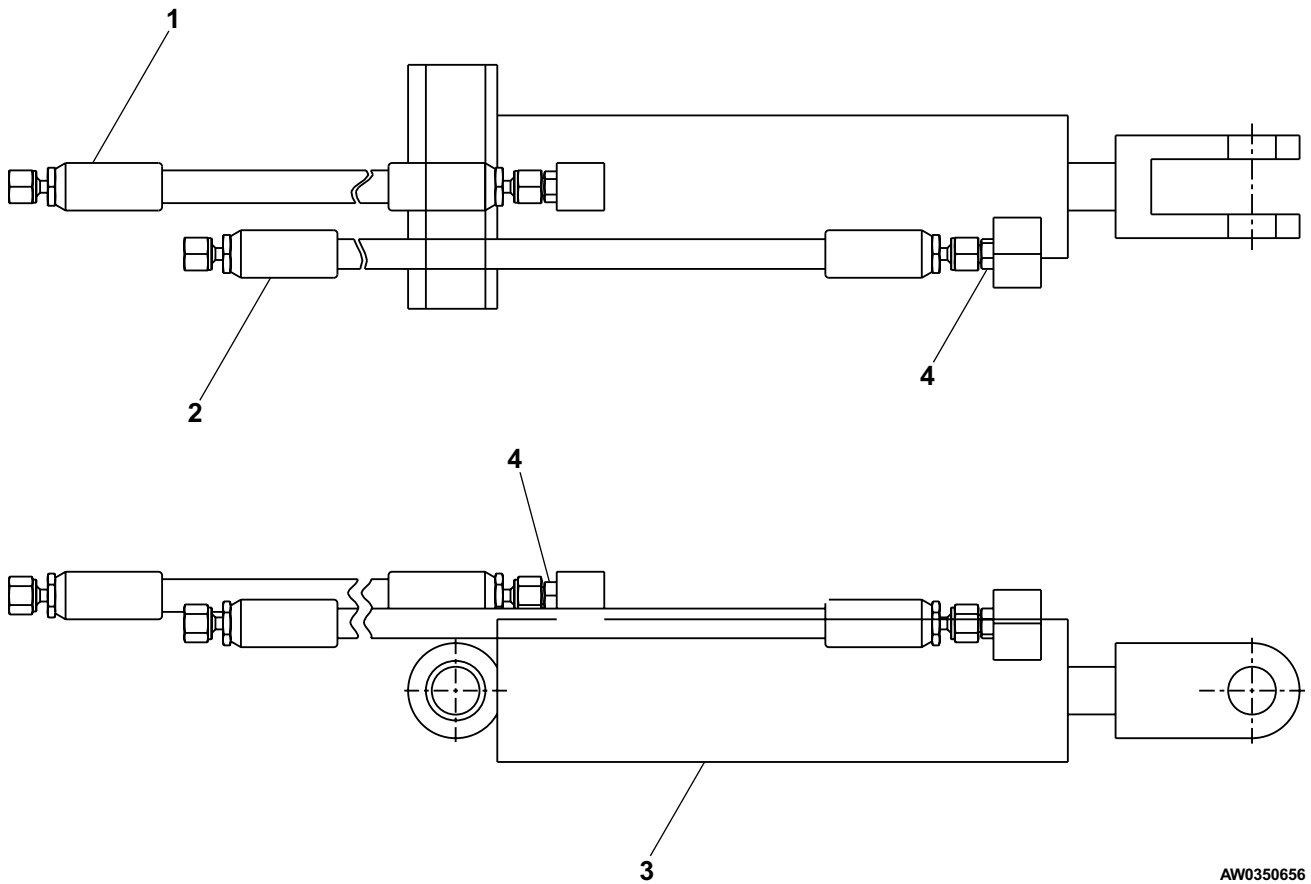
AW0350893

item	part no	qty	description
	0350853	1	Cylinder, lift - GBI
	0350895	1	Seal repair kit - (kit includes items 14 through 23)
1		1	Tube - (not sold separately)
2	8070721	1	Rod
3	8070545	1	Thread ring
4	8070720	1	Head gland
5	8070719	1	Piston
6	8070718	1	Spacer
7	8070717	1	Bushing spacer
8	8070716	1	Bushing spacer
9	8070715	4	Bushing
10	8070368	3	Port plug
11	8070516	1	Set screw
12	8070513	1	Snap ring
13	8070511	1	Nut
14	Kit item	3	O-ring - (not sold separately)
15	Kit item	1	Nylon plug - (not sold separately)
16	Kit item	1	Back-up - (not sold separately)
17	Kit item	1	O-ring - (not sold separately)
18	Kit item	1	C. I. ring - (not sold separately)
19	Kit item	1	CST seal - (not sold separately)
20	Kit item	2	Wear ring - (not sold separately)
21	Kit item	1	O-ring - (not sold separately)
22	Kit item	1	U-cup - (not sold separately)
23	Kit item	1	Wiper - (not sold separately)



Master level cylinder

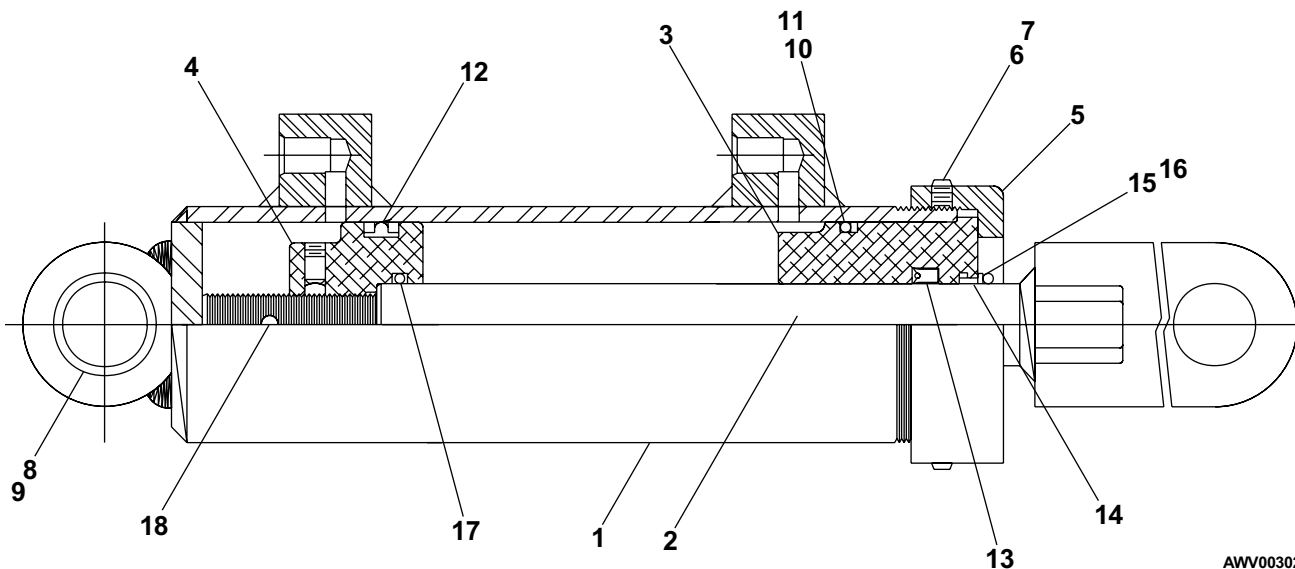
item	part no	qty	description
1	0350656	1	Master level cylinder
2	0020280	1	1/4 inch hydraulic hose
3	0070765	1	1/4 inch hydraulic hose
4	0350335	1	Cylinder, master level - (see page 2-16 for Green cylinder)
4	5065703	2	Straight thread adapter



AW0350656

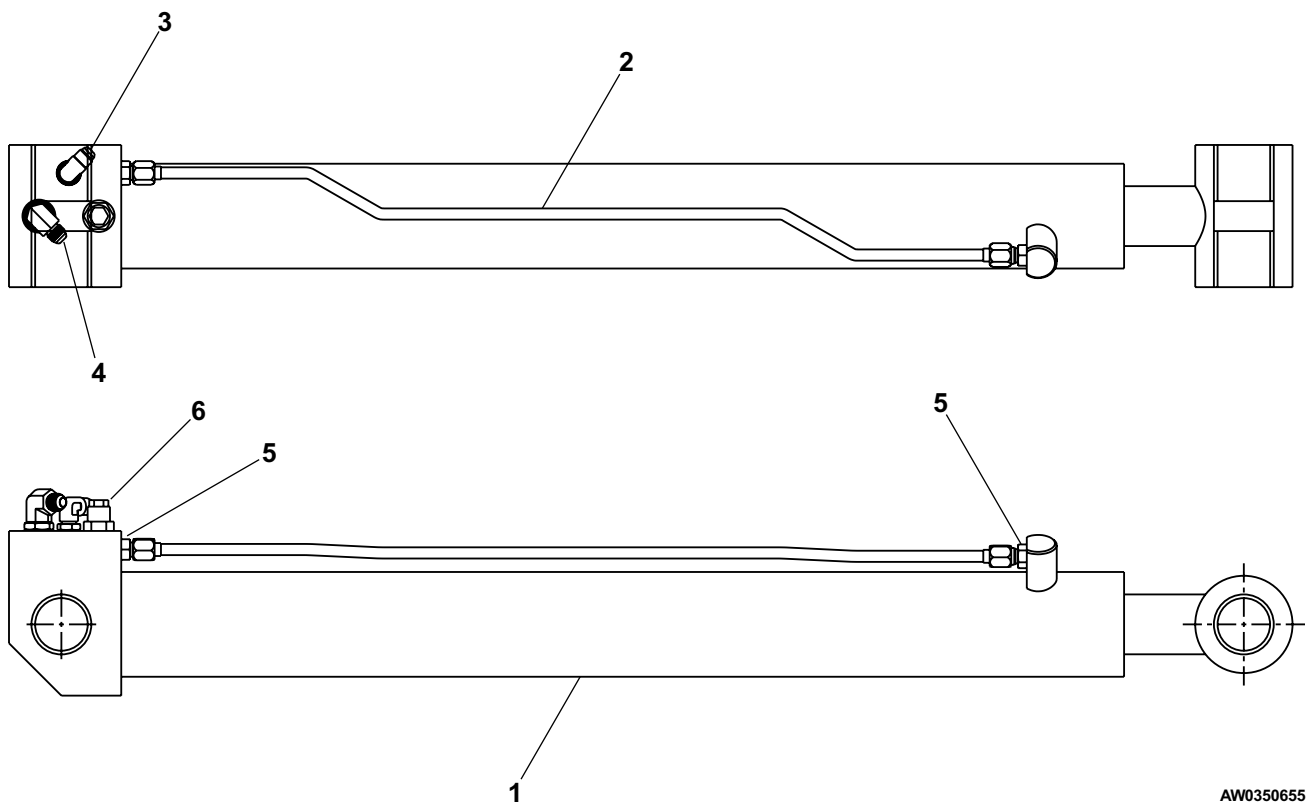
Cylinder, master level - Green

item	part no	qty	description
	0350335	1	Cylinder, master level - Green
	8070465	1	Seal repair kit - (kit includes items 10 through 18)
1		1	Cylinder barrel - (not sold separately)
2	8070460	1	Rod
3	8070454	1	Gland
4	8070458	1	Piston
5	8070462	1	Cap
6	5560339	4	Set screw
7	6091058	4	Nylon ball
8	8070832	2	Bearing
9	8070866	1	Bearing spacer
10	Kit item	1	O-ring - (not sold separately)
11	Kit item	1	Back-up - (not sold separately)
12	Kit item	1	Piston seal - (not sold separately)
13	Kit item	1	Rod seal - (not sold separately)
14	Kit item	1	Dust seal - (not sold separately)
15	Kit item	1	Oil seal - (not sold separately)
16	Kit item	1	U-cup seal - (not sold separately)
17	Kit item	1	O-ring - (not sold separately)
18	Kit item	1	Cotter pin - (not sold separately)



AWV00302

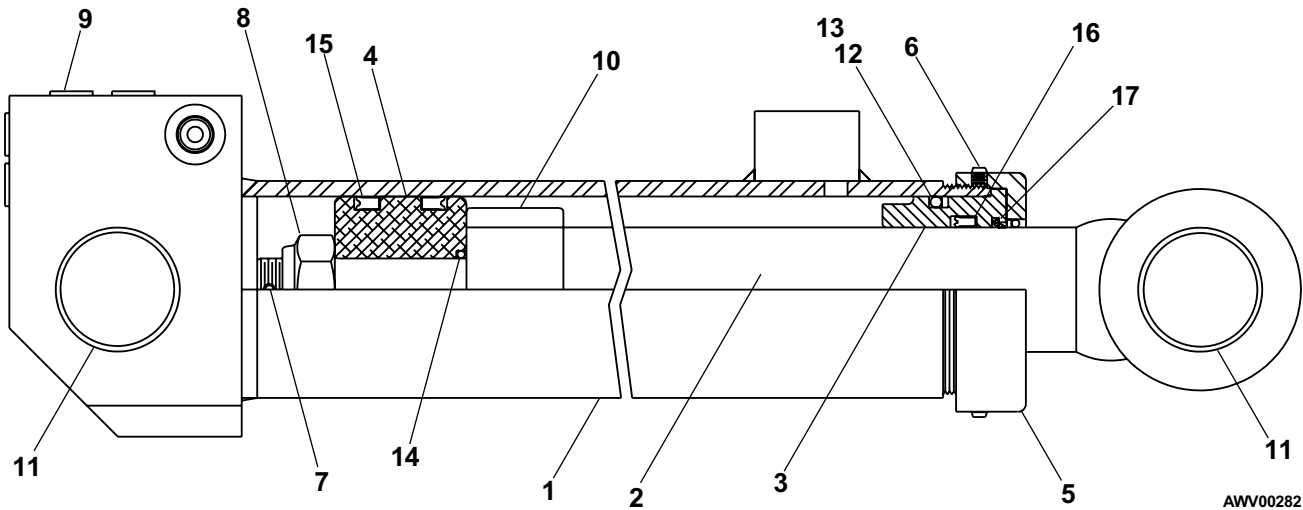
item	part no	qty	description
	0350655	1	Riser cylinder
1	0350333	1	Cylinder, riser - (see page 2-18 for Green cylinder)
2	0350719	1	Transfer tube
3	5035305	1	Straight thread 90° elbow
4	5035320	1	Straight thread 90° elbow
5	5065707	2	Straight thread adapter
6	6018969	1	Cartridge counterbalance valve - (factory preset, do not reset)



AW0350655

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

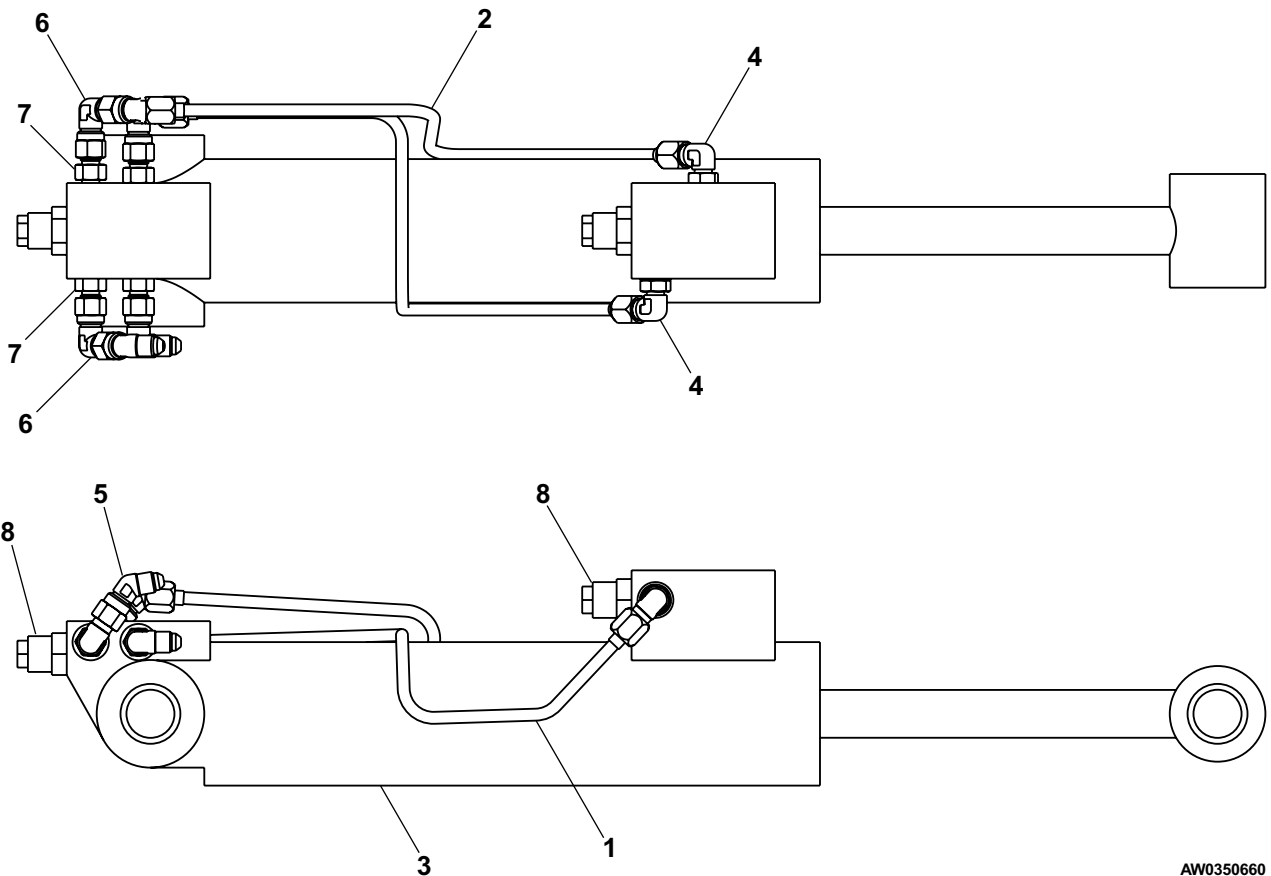
item	part no	qty	description
	0350333	1	Cylinder, riser - Green
	0350804	1	Seal repair kit - (kit includes items 11 through 16)
1		1	Cylinder barrel - (not sold separately)
2	6091068	1	Rod
3	8070275	1	Gland
4	6091067	1	Piston
5	8070280	1	Cap
6	6091071	2	Set screw
7	8070432	1	Cotter pin
8	6091066	1	Full lock nut
9	8070475	5	Hex socket steel plug
10	8070476	1	Spacer
11	8070835	4	Bearing
12	Kit item	1	O-ring - (not sold separately)
13	Kit item	1	Back-up - (not sold separately)
14	Kit item	2	O-ring - (not sold separately)
15	Kit item	1	Piston seal - (not sold separately)
16	Kit item	1	Rod seal - (not sold separately)
17	Kit item	1	Rod wiper - (not sold separately)



AWV00282

Slave level cylinder

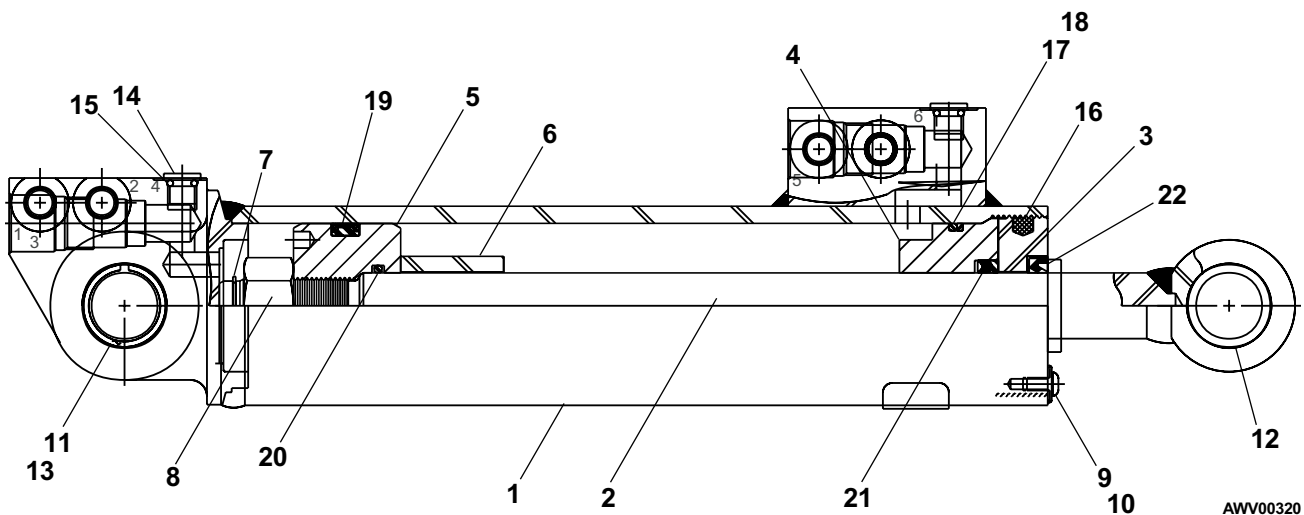
item	part no	qty	description
	0350660	1	Slave level cylinder
1	0150940	1	Hydraulic tube
2	0150941	1	Hydraulic tube
3	0350337	1	Cylinder, slave level - (see page 2-20 for GBI cylinder)
4	5035303	2	Straight thread 90° elbow
5	5036903	2	Swivel nut 45° elbow
6	5037003	4	Swivel nut 90° elbow
7	5065703	4	Straight thread adapter
8	6018969	2	Cartridge counterbalance valve - (factory preset, do not reset)



AW0350660

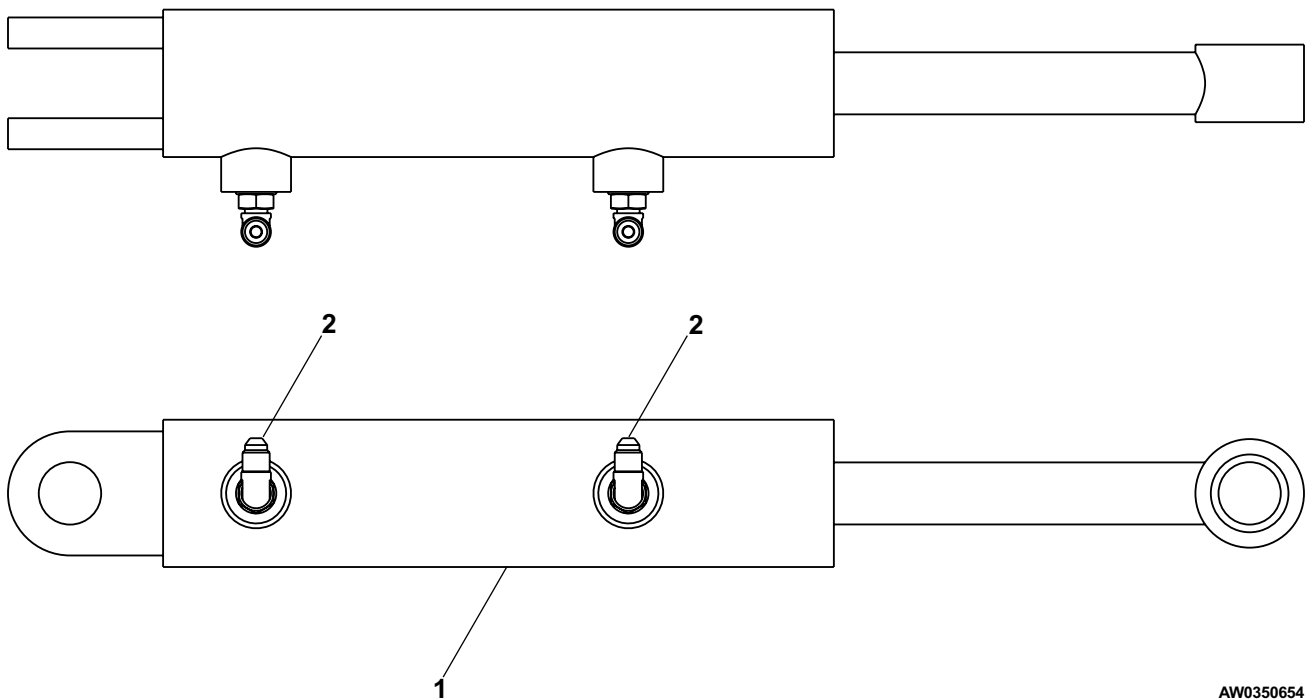
<https://truckmanualshub.com/>
Cylinder, slave level - GBI

item	part no	qty	description
	0350337	1	Cylinder, slave level - GBI
	0350806	1	Seal repair kit - (kit includes items 15 through 22)
1		1	Tube - (not sold separately)
2	8070897	1	Rod
3	8070896	1	Retainer
4	8070587	1	Bearing
5	8070667	1	Piston
6	8070895	1	Spacer
7	8070800	1	Snap ring
8	8070799	1	Nut
9	8070362	1	Lock washer
10	8070363	1	Capscrew
11	8070894	1	Bushing spacer
12	8070893	1	Bushing
13	2500034	2	Bushing
14	8070542	2	Port plug
15	Kit item	2	O-ring
16	Kit item	1	Nylon plug - (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	Quad seal - (not sold separately)
20	Kit item	1	O-ring - (not sold separately)
21	Kit item	1	U-ring - (not sold separately)
22	Kit item	1	Wiper - (not sold separately)



Steering cylinder

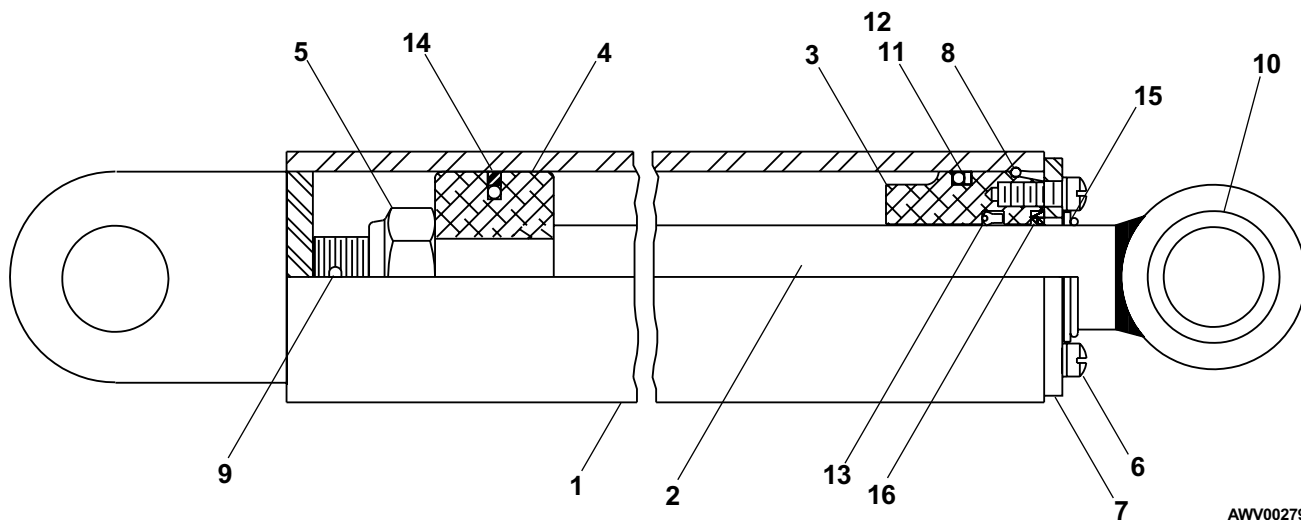
item	part no	qty	description
1	0350654	1	Steering cylinder
	0161911-99	1	Cylinder, steering (see page 2-22 for Green cylinder) (see page 2-23 for Prince cylinder)
2	5035303	2	Straight thread 90° elbow



AW0350654

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

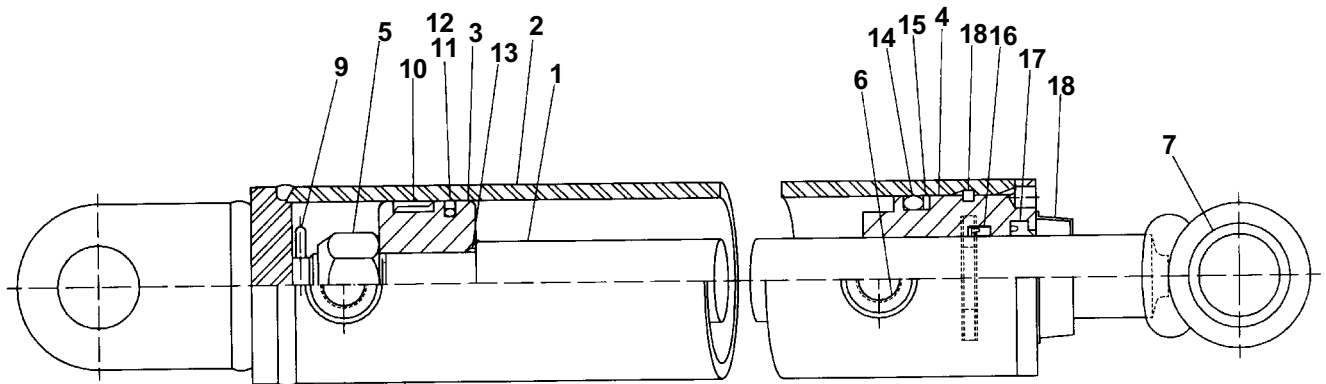
item	part no	qty	description
	0161911-99	1	Cylinder, steering - Green
	0150557		Seal repair kit - (kit includes items 11 through 16)
1		1	Cylinder barrel - (not sold separately)
2	8070245	1	Rod
3	8070204	1	Sleeve
4	6091094	1	Piston
5	6091093	1	Full lock nut
6	6091099	2	Machine screw
7	6091098	1	Washer
8	8070244	1	Lockwire
9	8070354	1	Retaining ring
10	2500061	1	Bearing
11	Kit item	1	O-ring - (not sold separately)
12	Kit item	1	Back-up - (not sold separately)
13	Kit item	1	Rod seal - (not sold separately)
14	Kit item	1	Piston seal - (not sold separately)
15	Kit item	1	Oil seal - (not sold separately)
16	Kit item	1	Dust seal - (not sold separately)



AWV00279

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

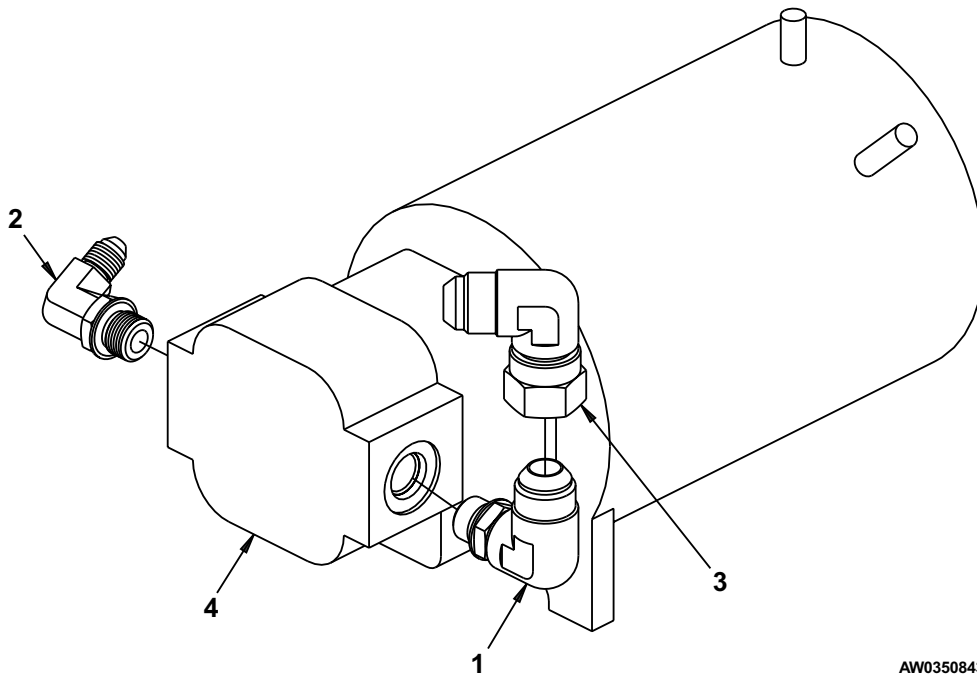
item	part no	qty	description
	0161911-99	1	Cylinder, steering - Prince
	8160234	1	Seal repair kit - (kit includes items 10 through 18)
1	8160221	1	Piston rod
2		1	Butt and tube - (not sold separately)
3	8160223	1	Piston
4	8160224	1	Gland
5	8160225	1	Locknut
6	8160131	2	Port plug
7	8160226	1	Bushing
8	8160175	1	Rod and wiper cover
9	8160174	1	Cotter pin
10	Kit item	1	Wear ring - (not sold separately)
11	Kit item	1	Teflon seal - (not sold separately)
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	BU-washer - (not sold separately)
16	Kit item	1	U-cup - (not sold separately)
17	Kit item	1	Wiper - (not sold separately)
18	Kit item	1	Square wire retainer - (not sold separately)



AWV00256

<https://truckmanualshub.com/>
Emergency power pump

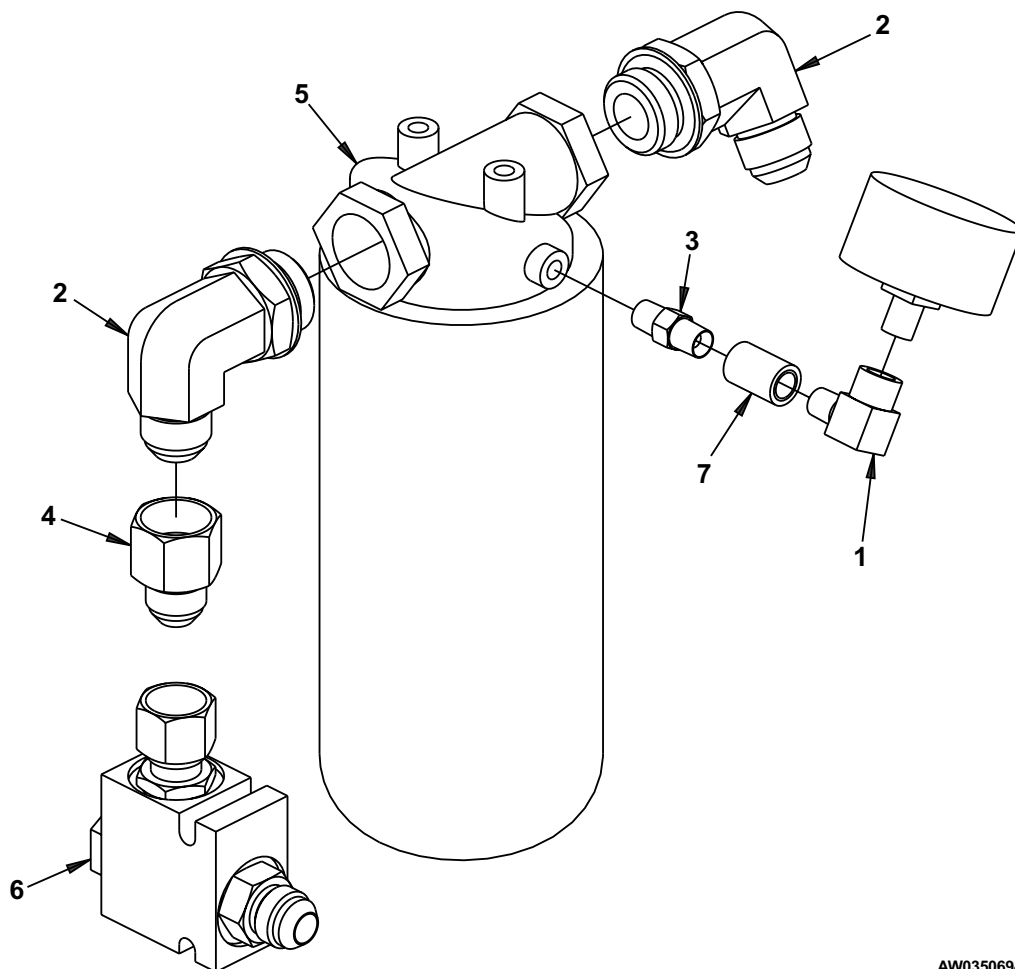
item	part no	qty	description
	0350843	1	Emergency power pump
1	5035315	1	Straight thread 90° elbow
2	5035318	1	Straight thread 90° elbow
3	5037006	1	Swivel nut 90° elbow
4	6020037-99	1	Emergency power motor/pump



AW0350843

Hydraulic oil filter

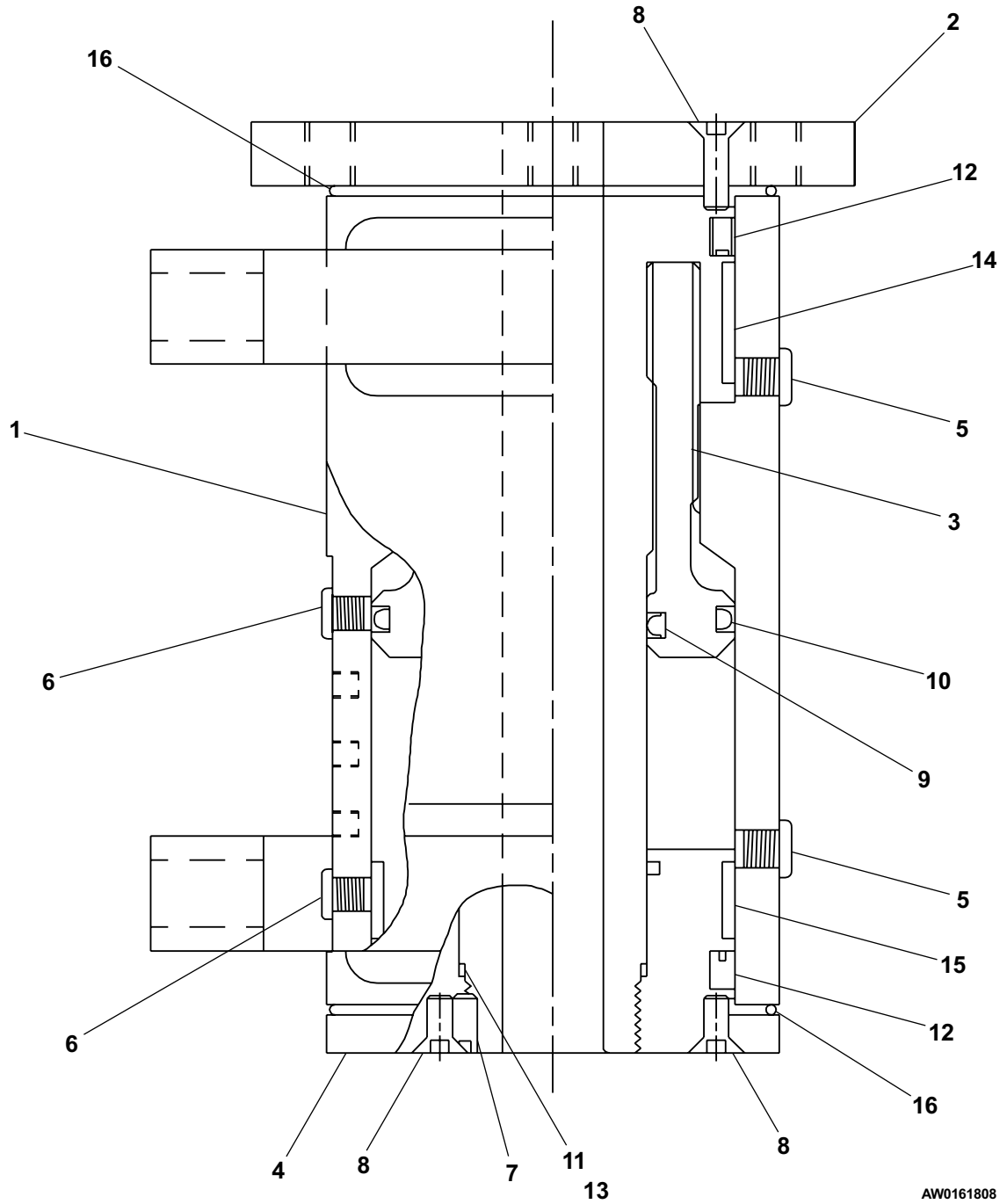
item	part no	qty	description
	0350694	1	Hydraulic oil filter
1	5031001	1	Pipe elbow 90° 1/8 NPT
2	5035317	2	Straight thread 90° elbow
3	5060501	1	Fitting, male 1/8 NPT
4	5064005	1	Tube end reducer
5	5080039	1	Hydraulic oil filter
	5080040	1	Replacement filter element
	5080049	1	Replacement filter head
	5080011	1	Replacement filter condition gauge
6	6018965	1	Check valve
	6018974	1	Check valve block
	5025007	1	Swivel adapter
	5065709	1	Straight thread adapter
7	7754001	1	Pipe coupling, 1/8 inch NPT



AW0350694

<https://truckmanualshub.com/>
Hydraulic platform rotator

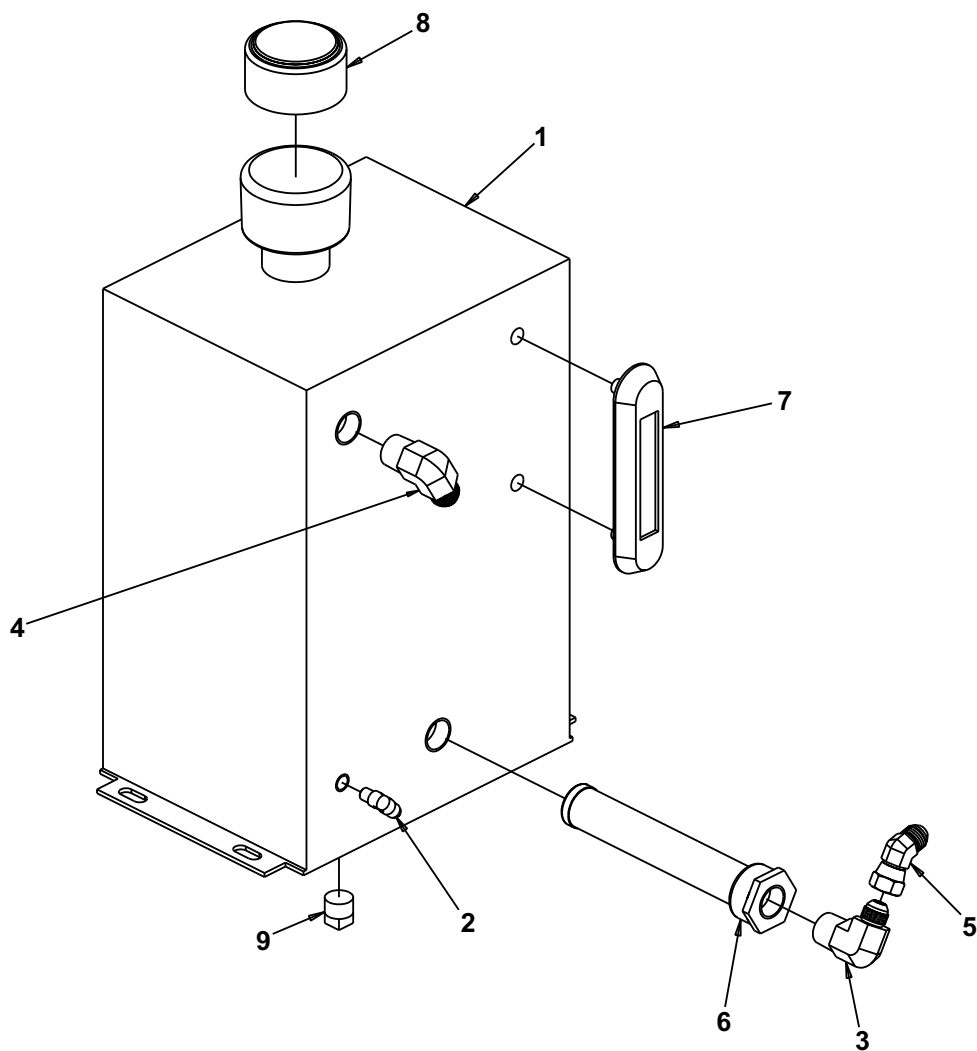
item	part no	qty	description
	0161808-99	1	Hydraulic platform rotator
1	0162525	1	Housing
2	0162626	1	Shaft
3	0162627	1	Piston sleeve
4	0162628	1	End cap
5	0162633	1	Hardware kit
6	Kit item	2	plug - (not sold separately)
7	Kit item	1	Plug - (not sold separately)
8	Kit item	2	Dowel pin - (not sold separately)
9	Kit item	6	Capscrew - (not sold separately)
10	8080111	1	Seal kit
11	Kit item	1	Seal - (not sold separately)
12	Kit item	1	Seal - (not sold separately)
13	Kit item	1	O-ring - (not sold separately)
14	Kit item	2	U-cup seal - (not sold separately)
15	Kit item	1	Back-up ring - (not sold separately)
16	0162634	1	Bearing kit
17	Kit item	1	Wear ring - (not sold separately)
18	Kit item	1	Wear ring - (not sold separately)
19	Kit item	2	Thrust washer - (not sold separately)



AW0161808

<https://truckmanualshub.com/>
Hydraulic oil reservoir

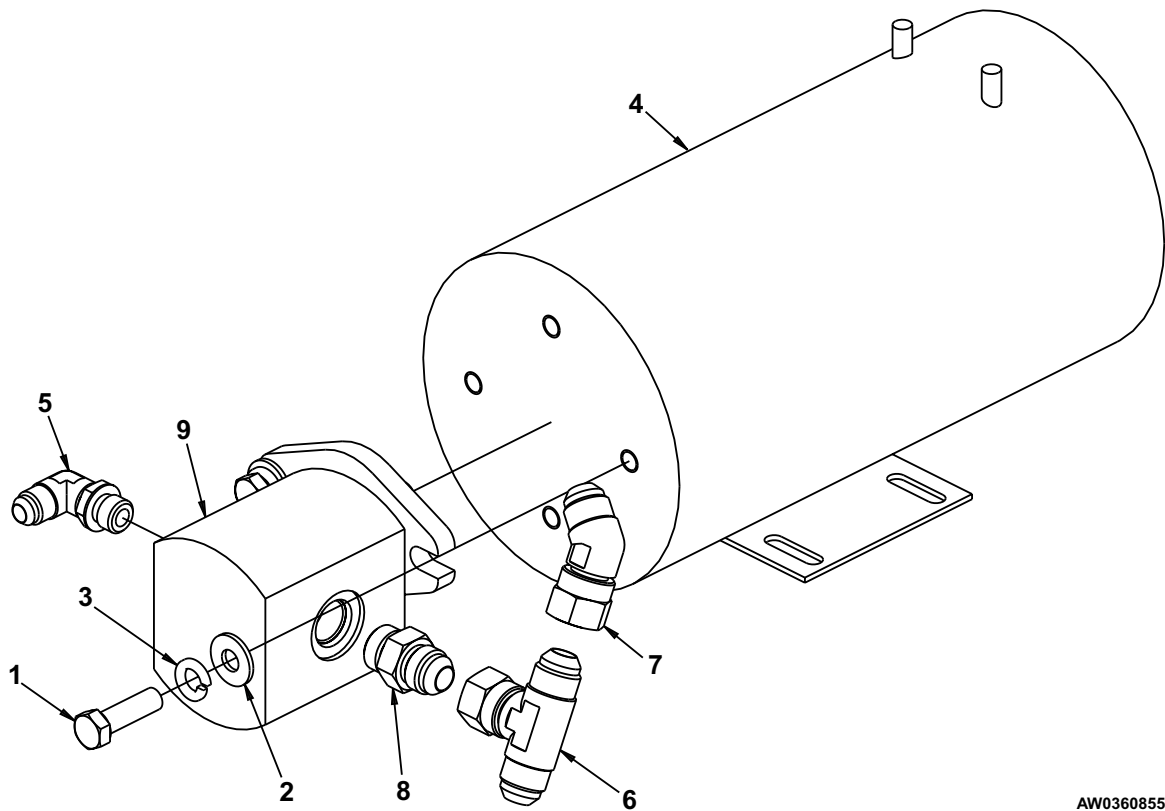
item	part no	qty	description
	0350606	1	Hydraulic oil reservoir
1	0350553-99	1	Hydraulic tank
2	5033704	1	Male 90° elbow
3	5033714	1	Male 90° elbow
4	5033725	1	Male 90° elbow
5	5036906	1	Swivel nut 45° elbow
6	5080048	1	Filter strainer
7	5090007	1	Liquid level gauge with thermometer
8	5090008	1	Filler/breather cap
9	7714204	1	Plug, 1/2 inch NPT square head



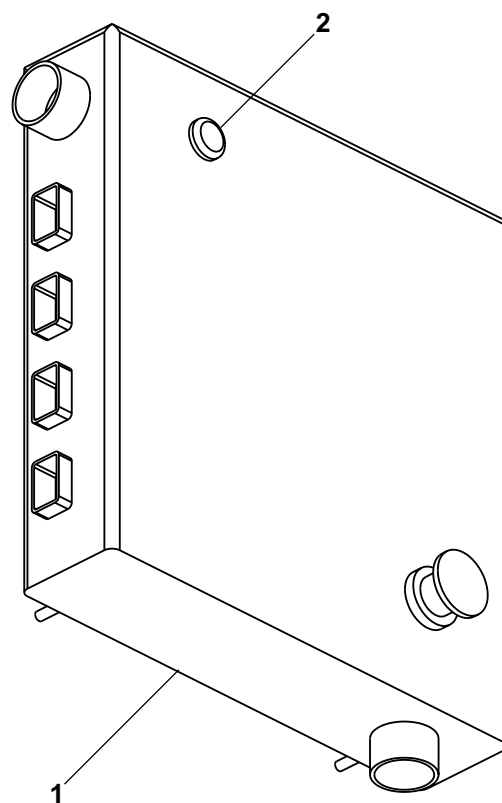
AW0350606

Main pump

item	part no	qty	description
	0350855	1	Main pump
1	970419	2	Capscrew 3/8-16 x 1-1/4 inch long hex head grade 5
2	986269	2	Washer 5/16 medium flat
3	987119	2	Washer 3/8 medium lock
4	3080022	1	Motor, 24 volt DC - 4 horsepower
5	5035305	1	Straight thread 90° elbow
6	5036806	1	Swivel nut branch tee
7	5036906	1	Swivel nut 45° elbow
8	5065709	1	Straight thread adapter
9	6020075-99	1	Hydraulic gear pump



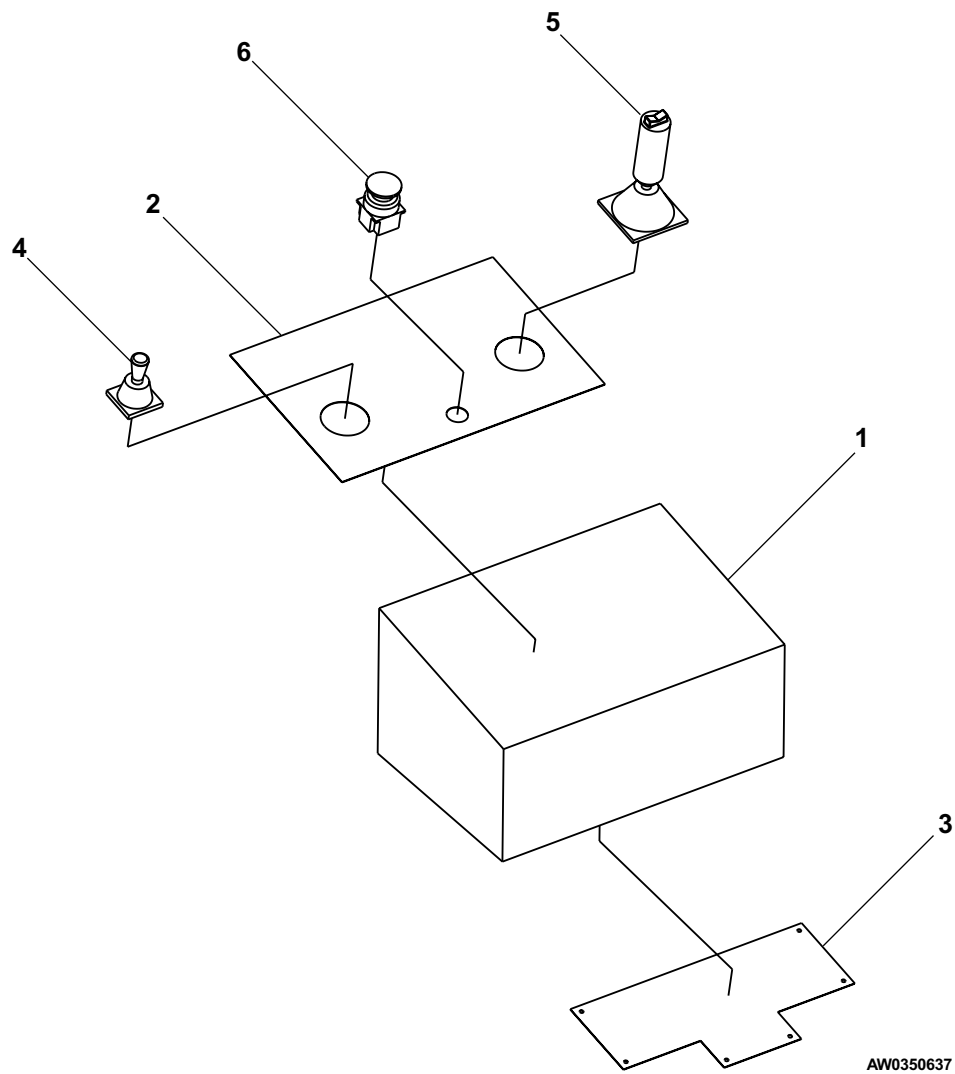
item	part no	qty	description
1	0350636-79	1	Lower control box
2	3020087	1	Switch, keyed start
	8030044	1	Replacement key



AW0350636

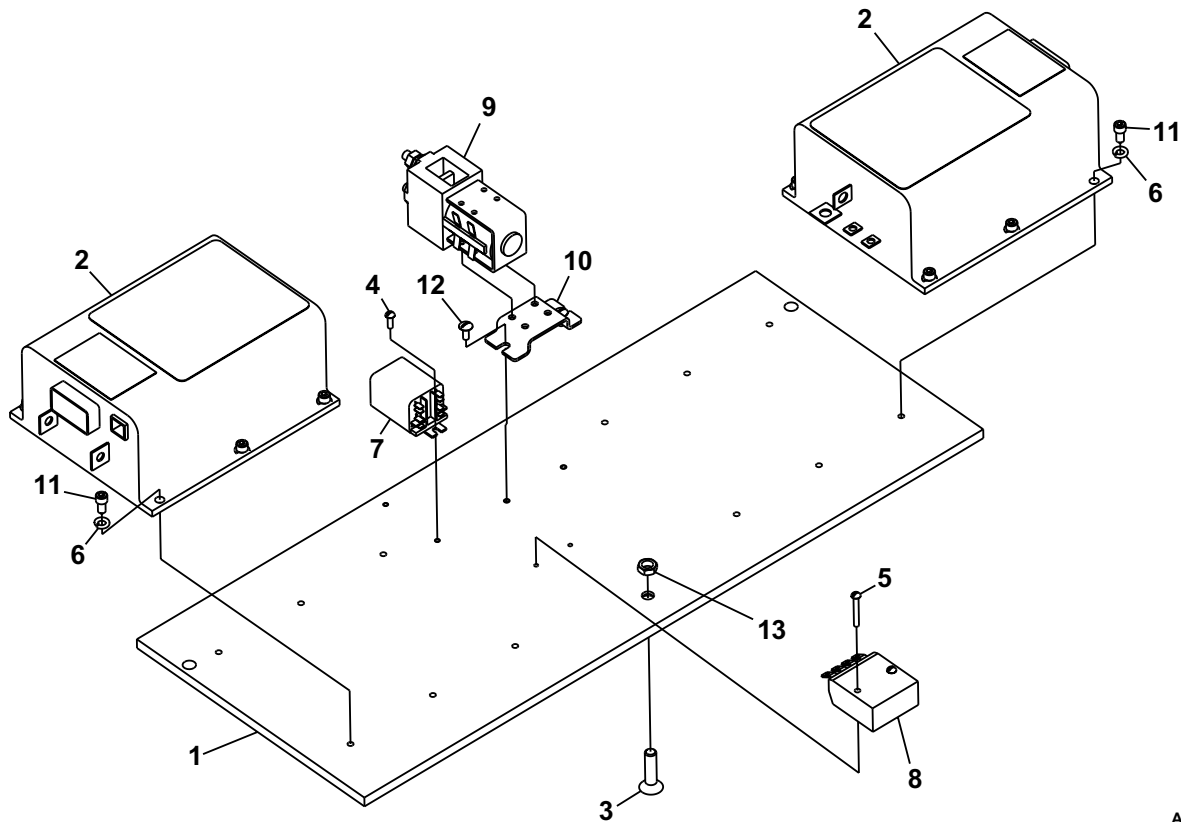
Upper control box

item	part no	qty	description
	0350637-89	1	Upper control box
1	0350817	1	Control box
2	3020159	1	Switch panel
3	3020160	1	Circuit card
4	3020161	1	Joystick, booms
5	3020162	1	Joystick, drive steer
6	3020163	1	Emergency stop switch



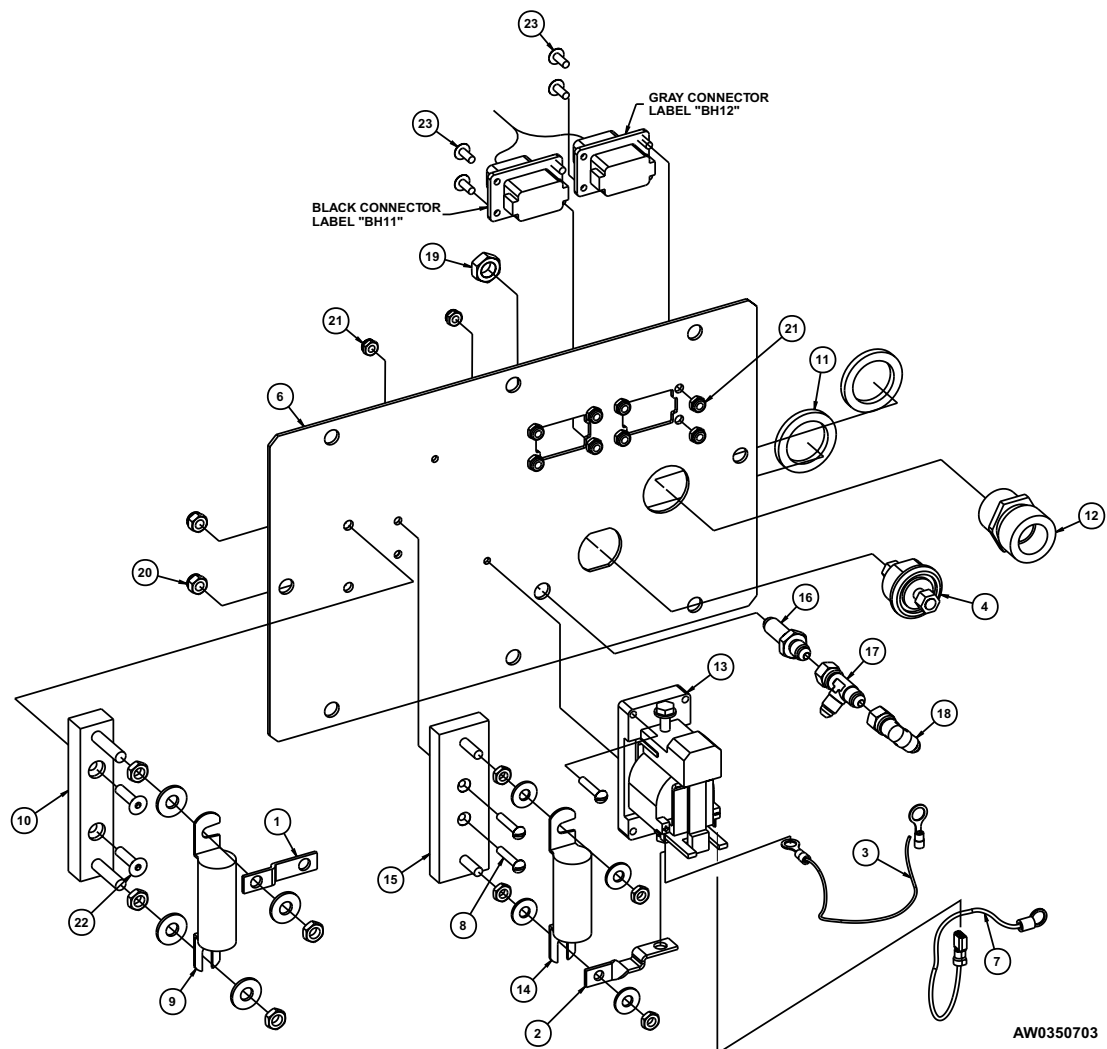
Drive control

item	part no	qty	description
	0350646	1	Drive control
1	0350628	1	Mounting plate
2	0350953	2	Traction controller
3	972489	1	Capscrew 3/8-16 x 1-1/2 inch long socket flat head
4	974439	2	Machine screw #8-32 x 1/2 inch long round head
5	974499	2	Machine screw #8-32 x 1-1/4 inch long round head
6	987099	12	Washer 1/4 medium lock
7	3040214	1	Relay, 12 volt DC
8	3040344	1	Driver
9	3087773	1	Contactor, 12 volt DC (continuous coil)
10	5510017	1	Mounting bracket, contactor
11	5560607	12	Shoulder bolt 1/4-20 x 1/2 inch long
12	5560609	2	Machine screw #10-24 x 1/2 inch long truss head
13	5560611	1	Nut 3/8-16 hex jam



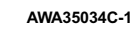
AW0350646

item	part no	qty	description
	0350703	1	Electric bulkhead
1	0160558	1	Bar, offset bus
2	0160559	1	Bar, angled bus
3	0162362	1	Wire harness, BTR transient suppressor
4	302629	1	Feed thru stud, battery
5	0350722	1	Wire harness, chassis
6	0350776-99	1	Plate, electric bulkhead
7	0350780	1	Jumper wire
8	974709	4	Machine screw #10-24 x 1 inch long round head
9	3040332	1	Fuse, 225 amp capacity
10	3040333	1	Fuse block, 225 amp fuse
11	3040387	2	Connector locknut
12	3040547	1	Connector
13	3040671	1	Relay, 12 volt DC
14	3040692	1	Fuse, 100 amp capacity
15	3040693	1	Fuse block, 100 amp fuse
16	5034401	1	Bulkhead union /
17	5036703	1	Swivel nut run tee
18	5037003	1	Swivel nut 90° elbow
19	5074401	1	Bulkhead locknut
20	5560004	2	Nut 1/4-20 self locking
21	5560034	12	Nut #10-24 self locking
22	5560331	2	Capscrew 1/4-20 x 1 inch long socket flat head
23	5560609	8	Machine screw #10-24 x 1/2 inch long truss head



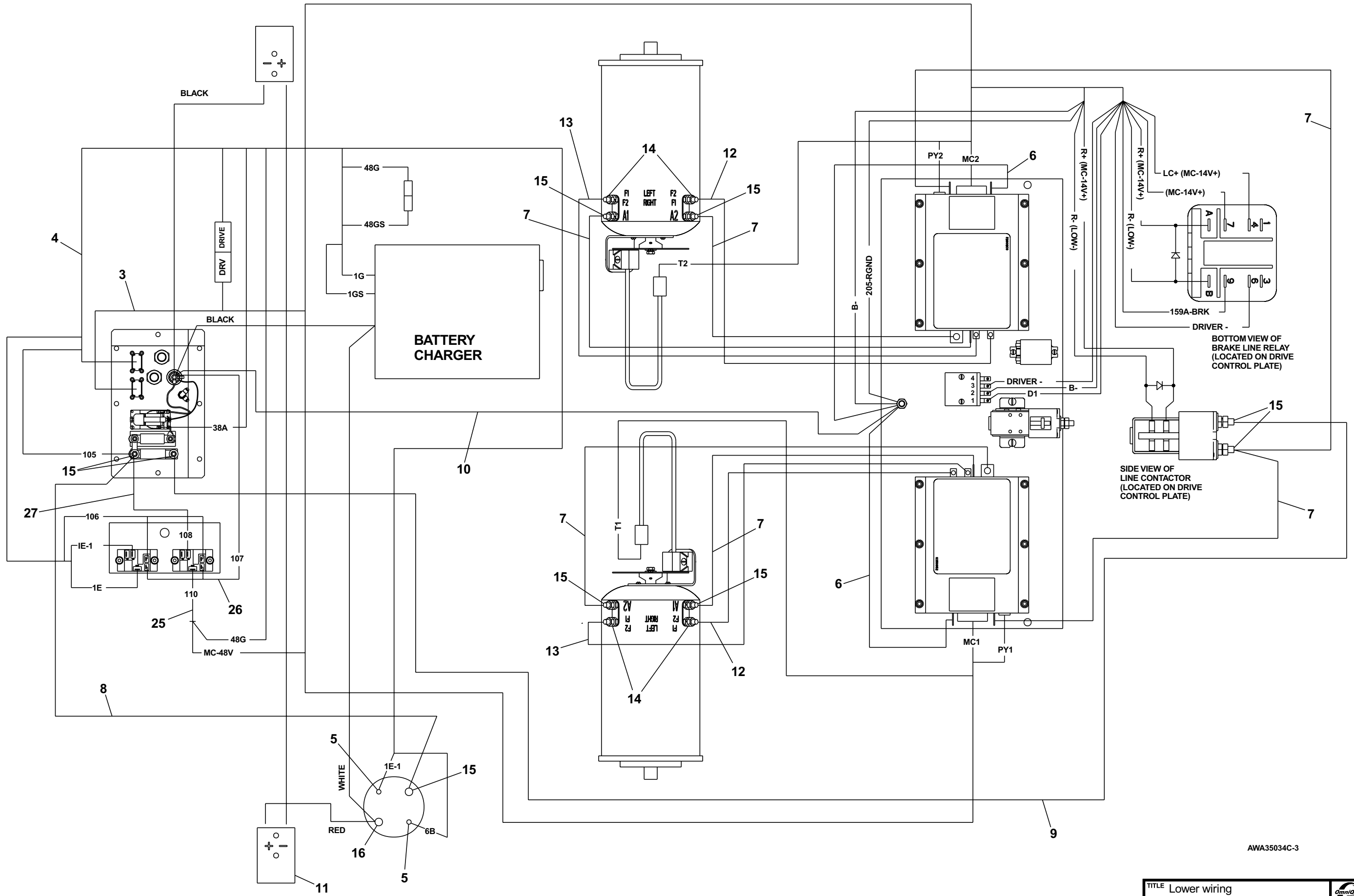
Lower wiring

item	part no	qty	description
1	0350723	1	Wire harness, valves
2	0350722	1	Wire harness, chassis
3	0351001	1	Wire harness, drive control
4	0351002	1	Wire harness, intermediate
5	3040452	2	Insulator boot
6	0161746	2	Jumper wire
7	0162244	6	Jumper wire
8	0350726	1	Jumper wire
9	0350727	1	Jumper wire
10	0350728	1	Jumper wire
11	0350731	1	Battery wire, chassis
12	0350757	2	Jumper wire
13	0350758	2	Jumper wire
14	3040268	4	Insulator boot
15	3040269	9	Insulator boot
16	3040270	1	Insulator boot
17	0161407	1	Jumper wire
18	0161817	1	Jumper wire
19	0161818	1	Jumper wire
20	0350726	1	Jumper wire
21	0350728	2	Jumper wire
22	0350729	1	Jumper wire
23	0350730	1	Jumper wire
24	3040269	6	Insulator boot
25	0350995	1	Wire, 48 volt splitter
26	0350964	1	Jumper wire
27	0350994	1	Jumper wire
28	0350747	1	Lower com cable
29	0350751	1	Boom cradle switch cable - (see page 3-18 for parts breakdown)
30	0350752	1	Lower full ret switch cable
31	0350750	1	Angle switch cable - (see page 3-17 for parts breakdown)
32	0351050	1	Steer switch cable - (see page 3-19 for parts breakdown)
33	0350753	1	Lower extend cable

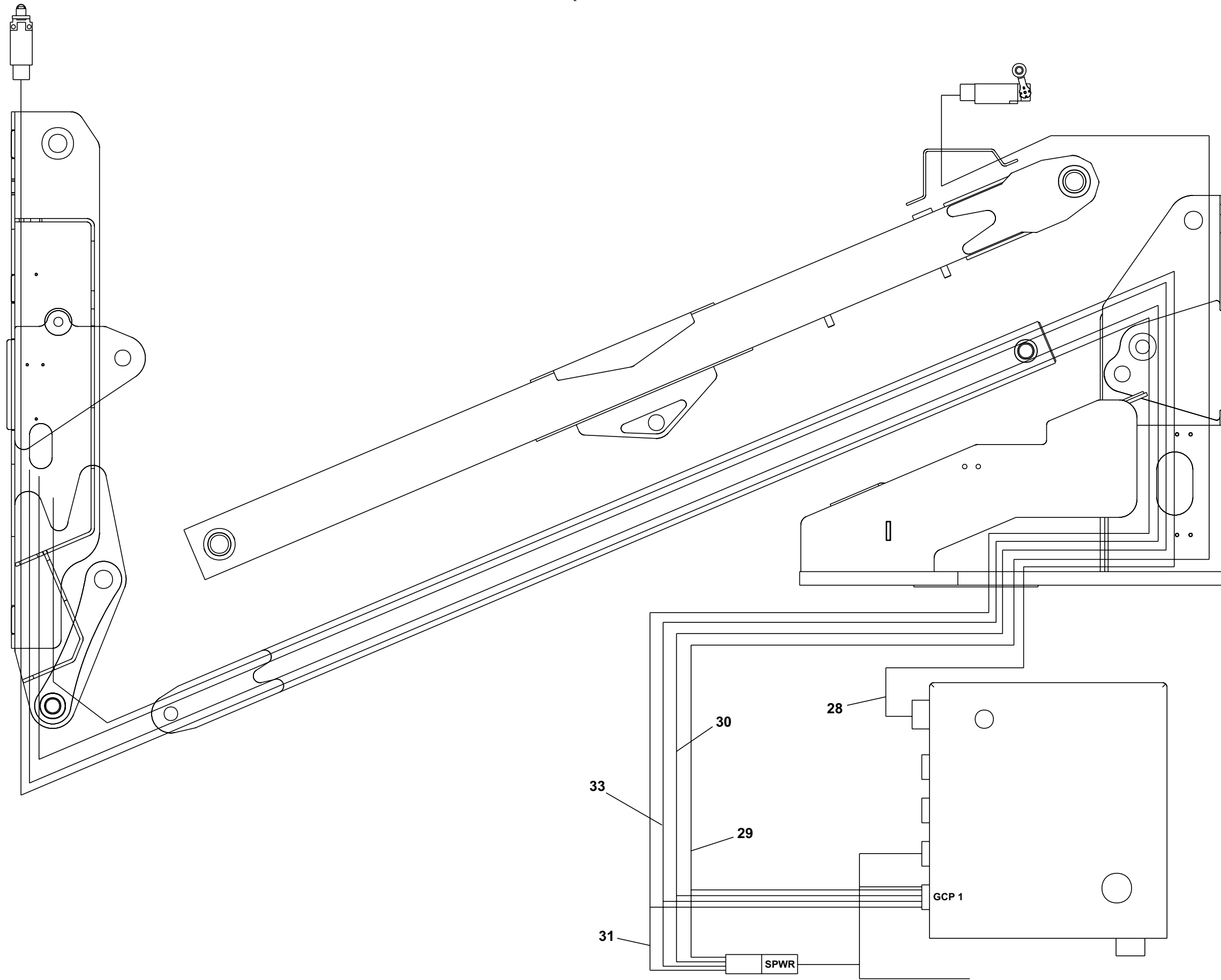




F
E
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A

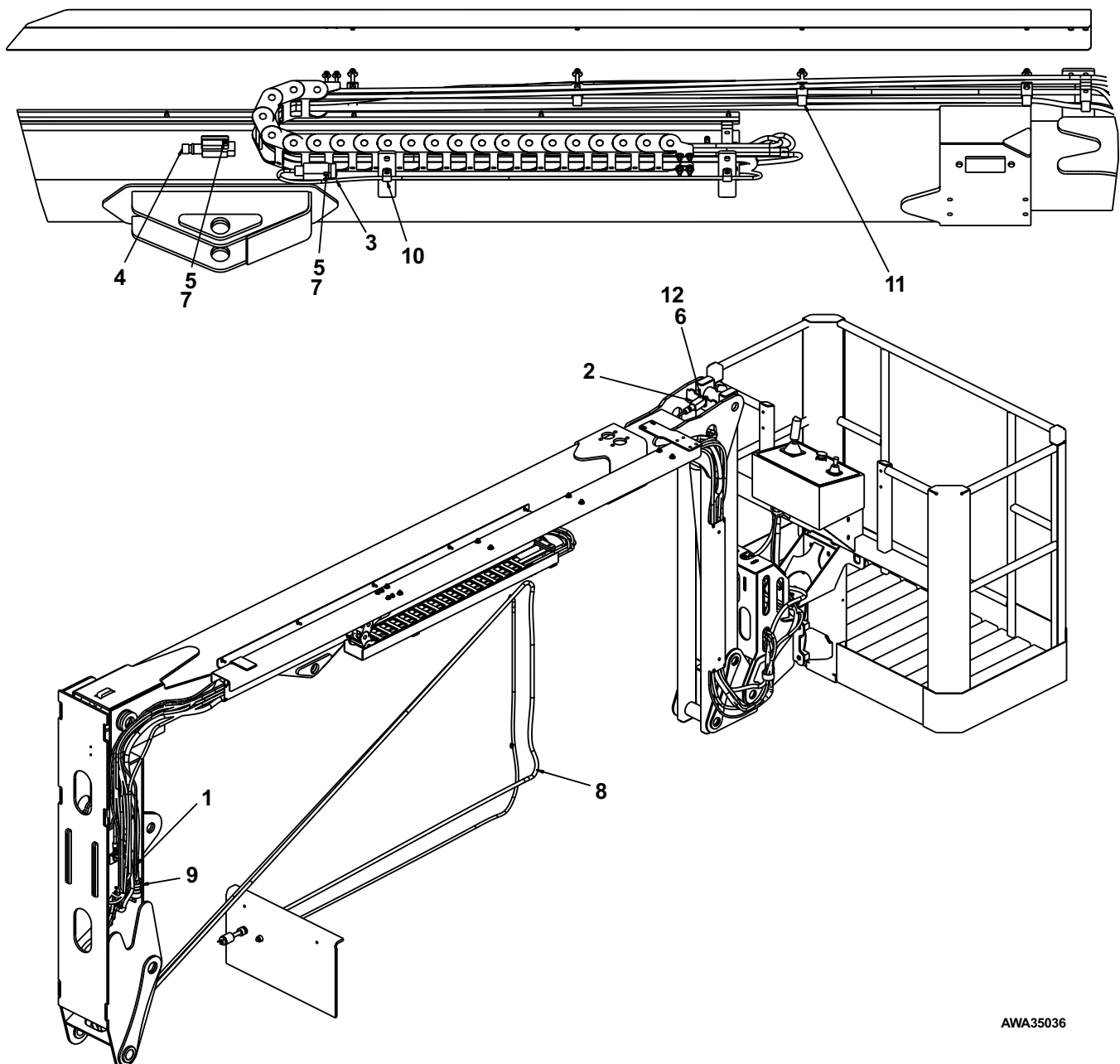


AWA35034C-3



AWA35034C-4

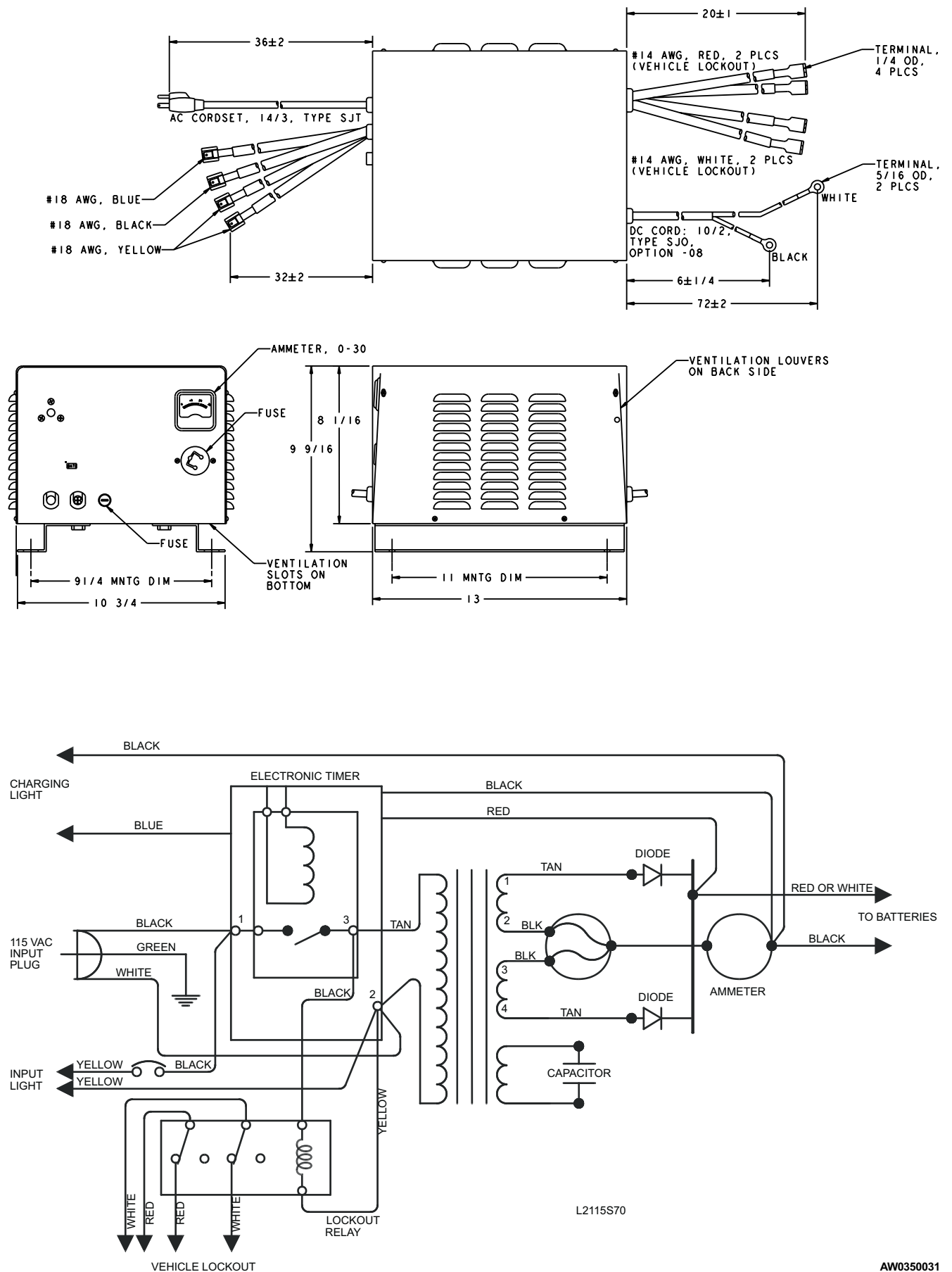
item	part no	qty	description
1	0350738	1	Upper comm cable
2	0350741	1	Jib switch cable
3	0350742	1	Upper full retract switch cable - (see page 3-21 for parts breakdown)
4	0350743	1	Upper extend cable - (see page 3-20 for parts breakdown)
5	974729	4	Machine screw #10-24 x 1-1/4 inch long round head
6	974749	2	Machine screw #10-24 x 1-3/4 inch long round head
7	987089	4	Washer #10 medium lock
8	3011203	1	Wire, 12 gauge/3 conductor x 51-1/2 feet long
9	3049893	2	Wire receptacle
10	5093001	2	Clamp
11	5093005	5	Clamp
12	5560034	2	Nut #10-24 self locking



AWA35036

<https://truckmanualshub.com/>
Battery charger, 115 volt

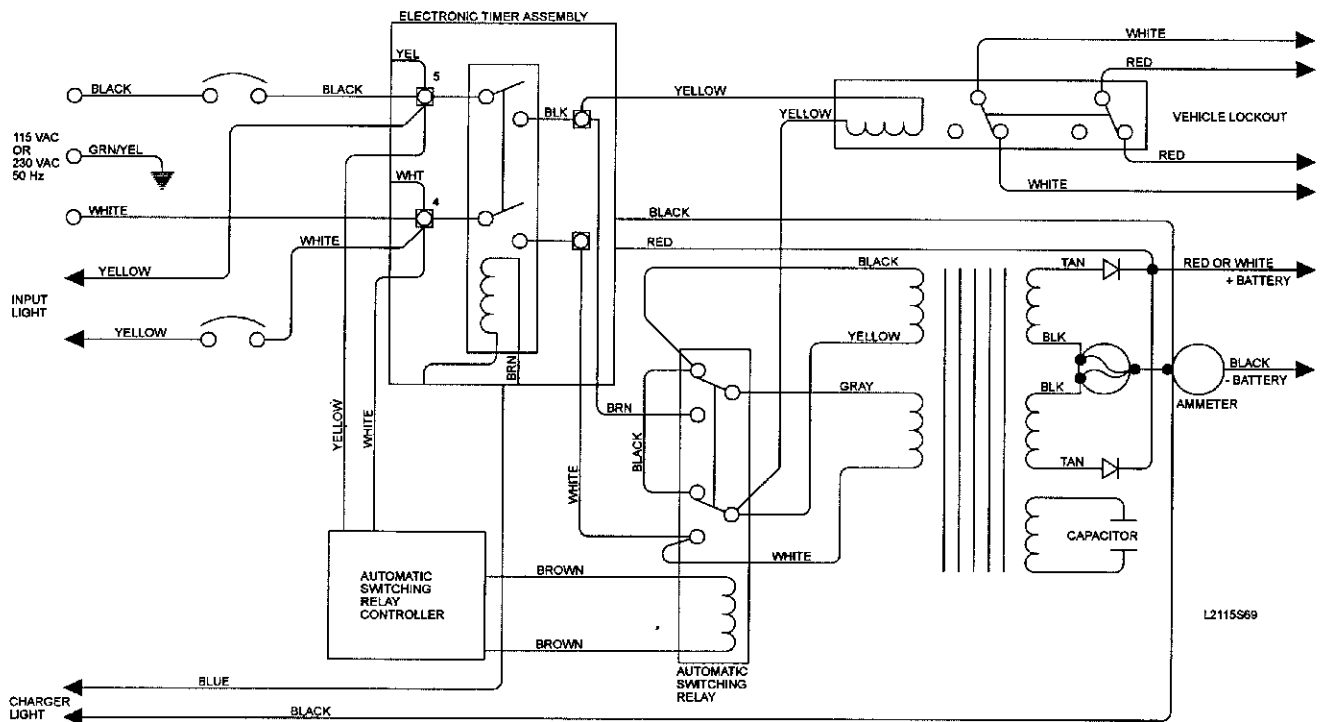
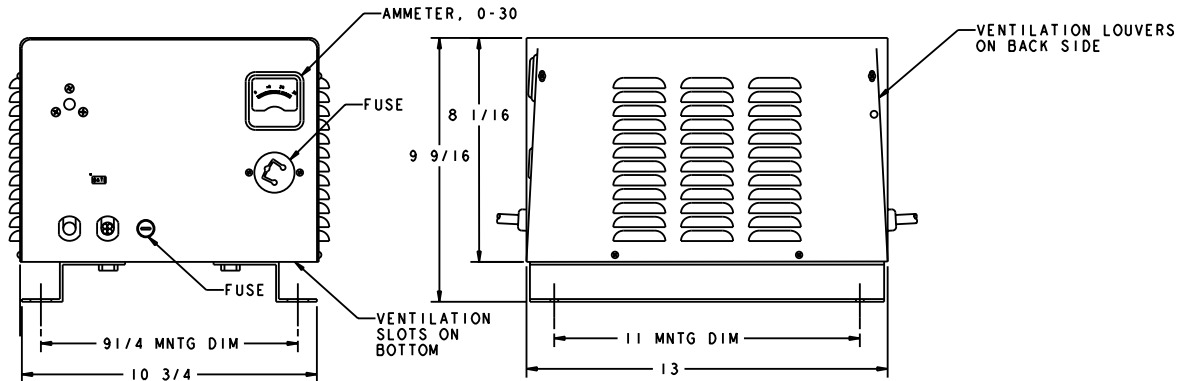
item	part no	qty	description
	3050031	1	Battery charger, 115 volt - Lester
1	3050055	1	Case
2	3050056	1	Transformer
3	3050057	1	Heatsink with diodes
4	3050058	1	Ammeter
5	3050059	1	Electronic timer
6	3050060	1	Capacitor
7	8120035	1	Strain relief bushing, AC cord
8	3050046	1	Strain relief bushing, DC cord
9	3050061	1	Cordset - AC
10	3050062	1	Cordset - DC
11	3050078	1	Fuse
12	3050064	1	Relay, lockout circuit
13	3050065	1	Wire harness, lockout circuit
14	8120036	1	Strain relief bushing, AC cord
15	3050049	1	Fuse holder
16	3050067	1	Fuse
17	3050068	1	Wire harness, for lights
18	3050069	1	Strain relief bushing for lights



AW0350031

<https://truckmanualshub.com/>
Battery charger, 115/230 volt

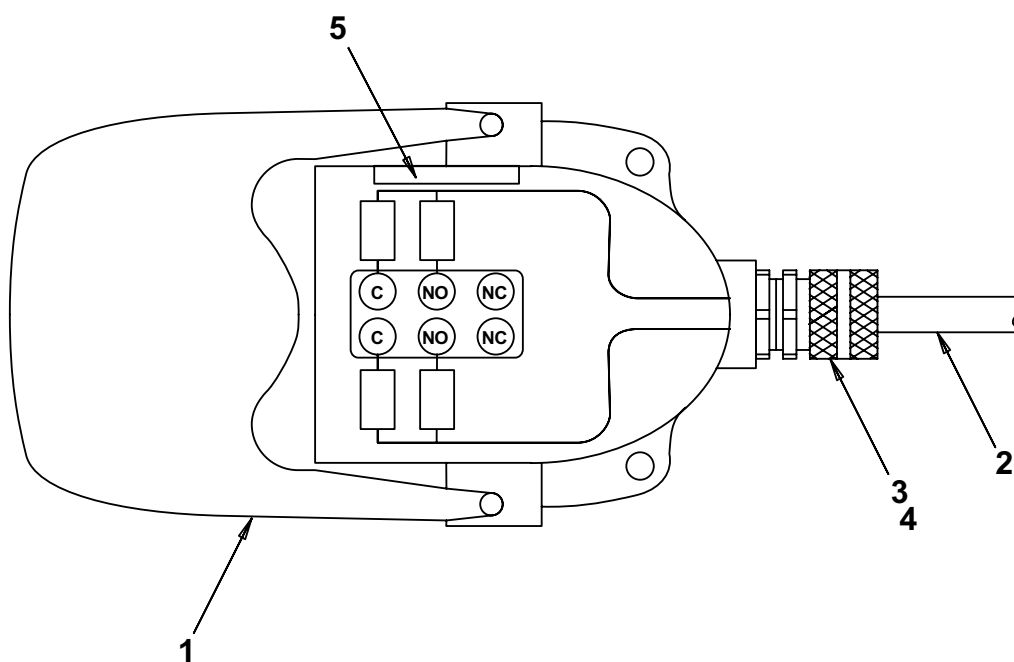
item	part no	qty	description
	3050037	1	Battery charger, 115/230 volt, Lester
1	3050079	1	Case
2	3050080	1	Transformer
3	3050057	1	Heatsink with diodes
4	3050081	1	Ammeter
5	3050082	1	Electronic timer
6	3050060	1	Capacitor
7	3050046	1	Strain relief bushing, DC cord
8	3050083	1	Inlet connector
9	3050062	1	Cordset - DC
10	3050078	1	Fuse
11	3050064	1	Relay, lockout circuit
12	3050065	1	Wire harness, lockout circuit
13	8120036	1	Strain relief bushing, AC cord
14	3050084	1	Circuit breaker, input
15	3050068	1	Wire harness, for lights
16	3050085	1	Circuit breaker, input light
17	3050086	1	Automatic switching relay controller
18	3050087	1	Relay, automatic switching



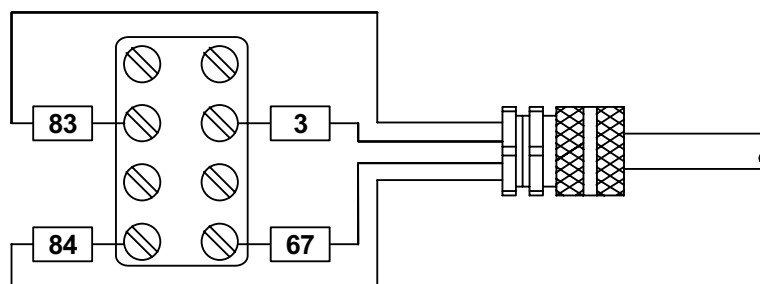
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AW0350037

item	part no	qty	description
1	0161680	1	Platform foot switch
	3020021	1	Foot switch
	3020037	1	Replacement switch, Linemaster switch
	3020038	1	Replacement switch, Square D switch
2	0161681	1	Wire harness, platform foot switch
3	3040295	1	Connector
4	3040110	1	Connector locknut
5	0070967	1	Corrosion inhibitor



Foot switch shown with Linemaster switch

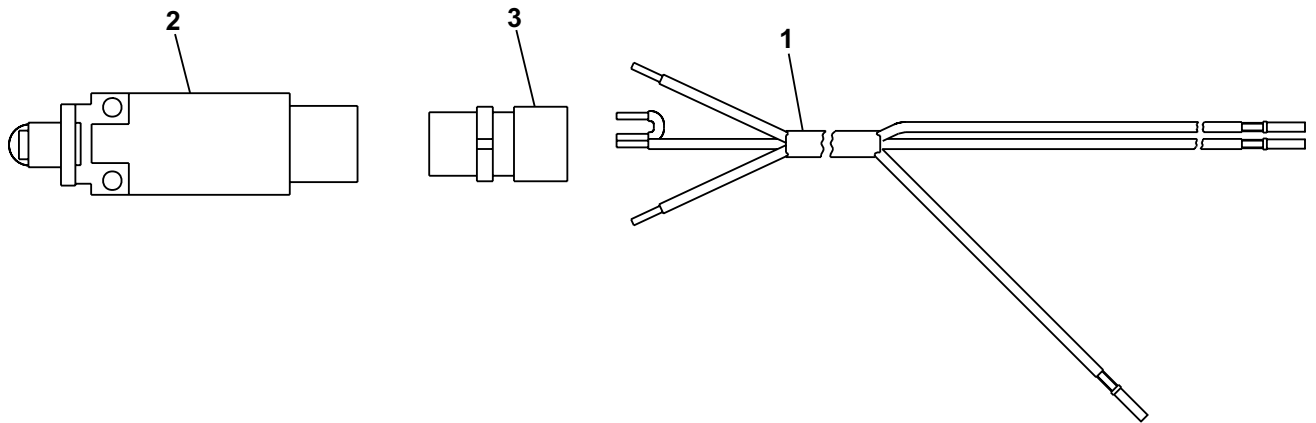


Foot switch wiring shown for Square D switch

AW0161680

Angle switch cable

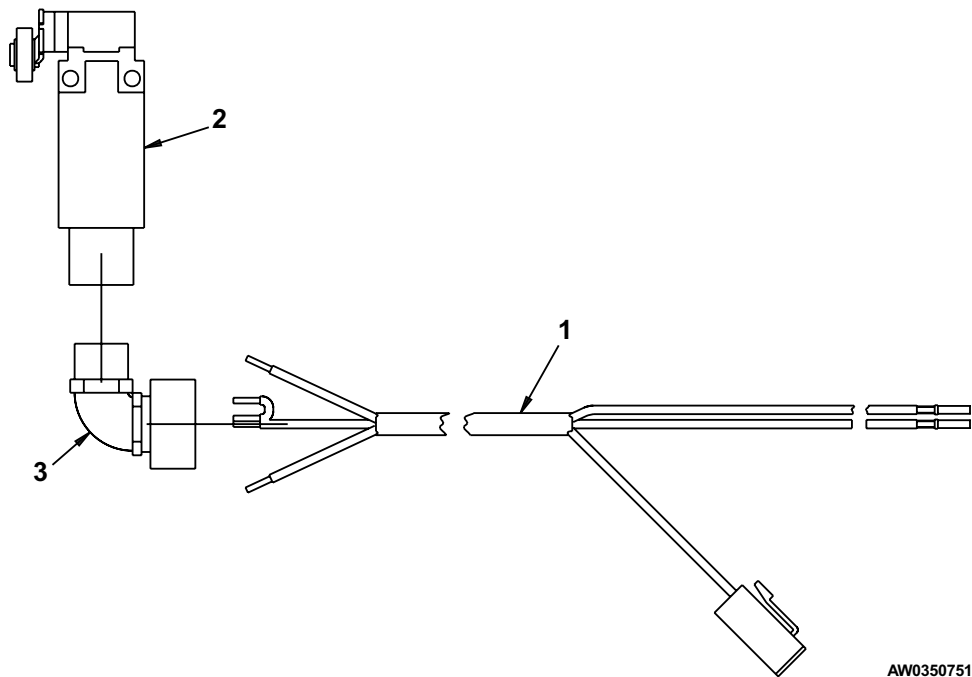
item	part no	qty	description
1	0350750	1	Angle switch cable
2	0350775	1	Wire harness, angle switch
3	3020154	1	Switch, plunger limit
3	3040187	1	Connector



AW0350750

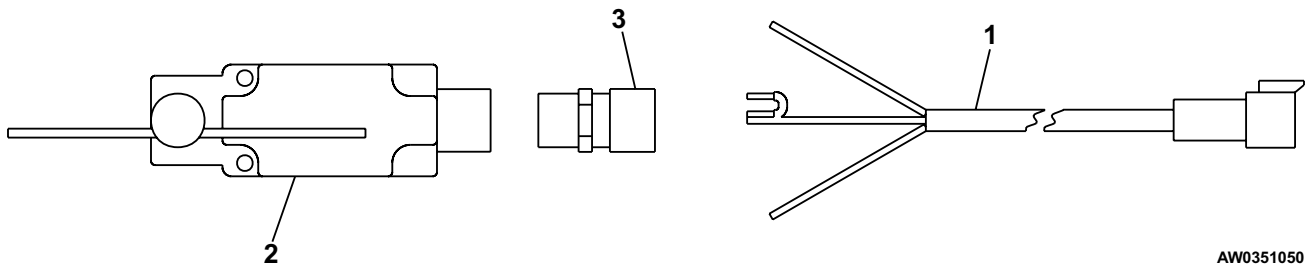
Boom cradle switch cable

item	part no	qty	description
	0350751	1	Boom cradle switch cable
1	0350771	1	Wire harness, boom cradle switch
2	3020140	1	Limit switch
3	3040358	1	Connector



Steer switch cable

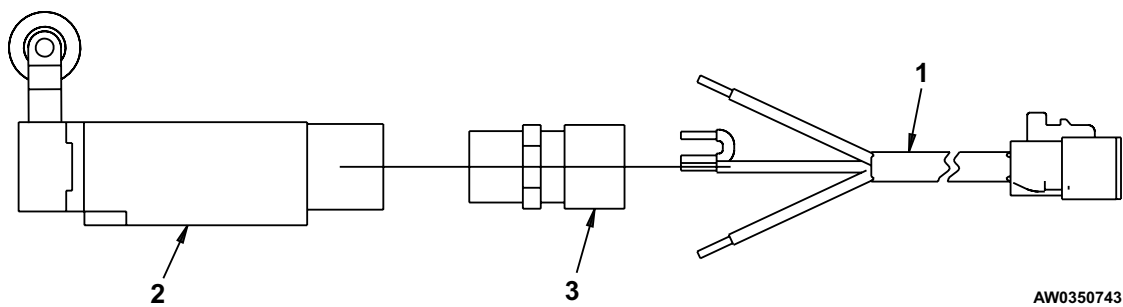
item	part no	qty	description
	0351050	1	Steer switch cable
1	0350859	1	Wire harness, steer switch
2	3020156	1	Switch
3	3040187	1	Connector



AW0351050

<https://truckmanualshub.com/>
Upper extend cable

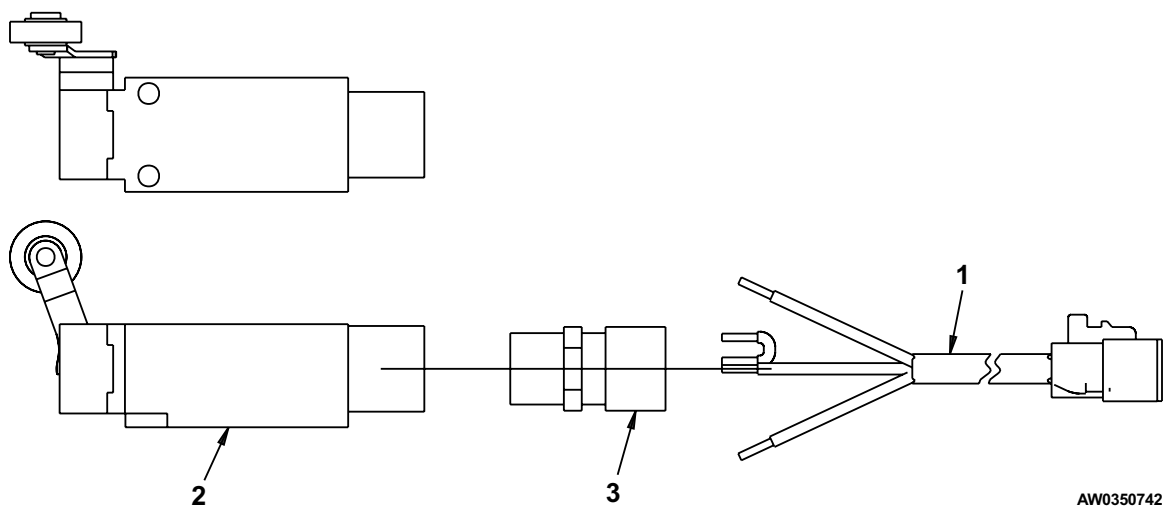
item	part no	qty	description
	0350743	1	Upper extend cable
1	0350867	1	Wire harness, upper extend switch
2	3020168	1	Switch, adjustable lever
3	3040187	1	Connector



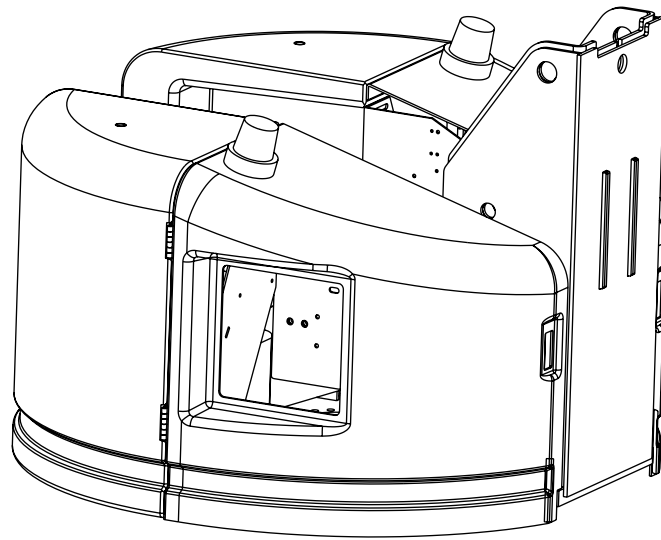
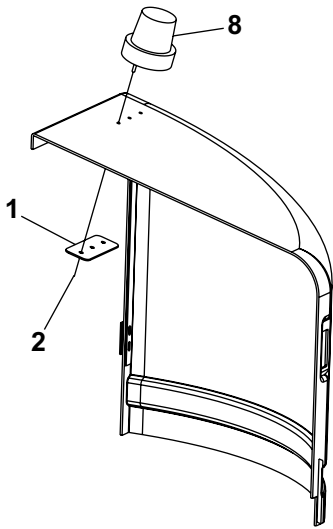
AW0350743

<https://truckmanualshub.com/>
Upper full retract switch cable

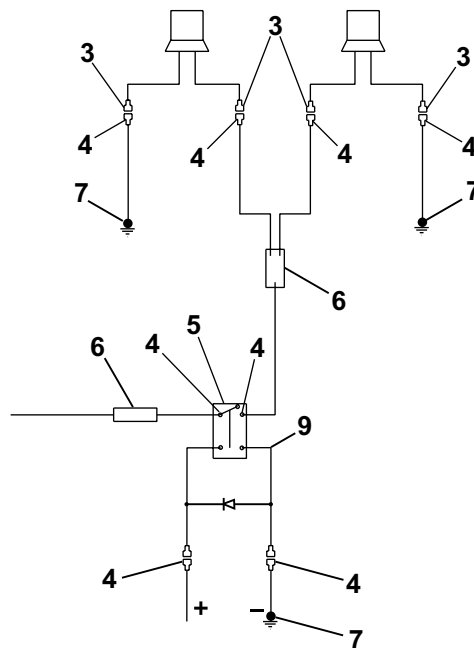
item	part no	qty	description
	0350742	1	Upper full retract switch cable
1	0350866	1	Wire harness, upper full retract switch
2	3020140	1	Limit switch
3	3040187	1	Connector



item	part no	qty	description
1	0350849-99	2	Base plate
2	984069	4	Nut 1/4-20 hex
3	3040082	4	Terminal .250 tab male fully insulated 16/14 wire
4	3040083	8	Terminal .250 tab female fully insulated 16/14 wire
5	3040469	1	Relay, 12 volt DC
6	3044137	2	Butt splice step down 10-14
7	3044855	3	Terminal ring tongue insulated 12/10 wire
8	3069516	2	Strobe light, red lens
	3069517	2	Strobe light, amber lens
	8190122	1	Replacement amber lens
9	0351029	1	Diode jumper wire



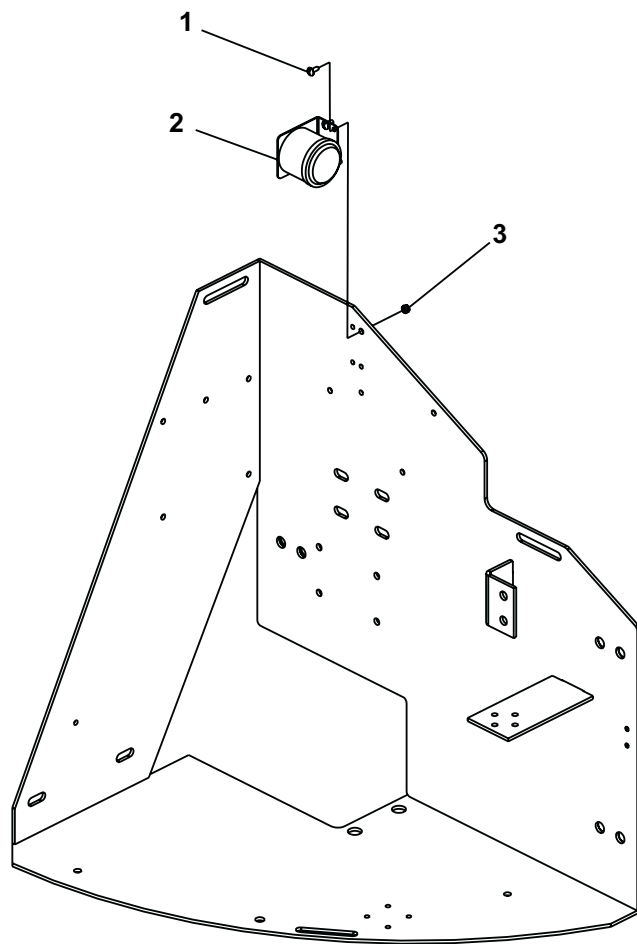
Wiring diagram



AWM00278

Motion alarms

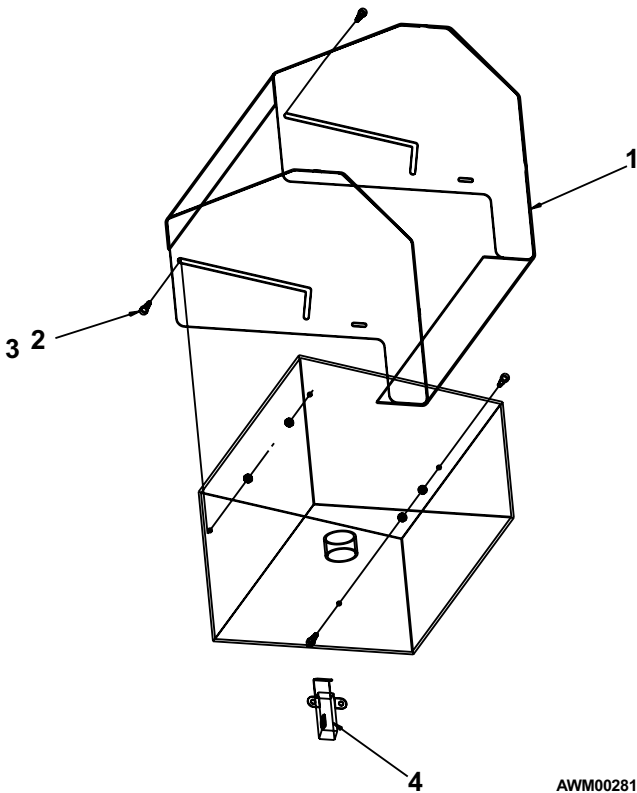
item	part no	qty	description
1	974659	4	Machine screw #10-24 x 1/2 inch long round head
2	3040593	1	Alarm, drive motion
3	5560034	4	Nut #10-24 self locking



AWM00279

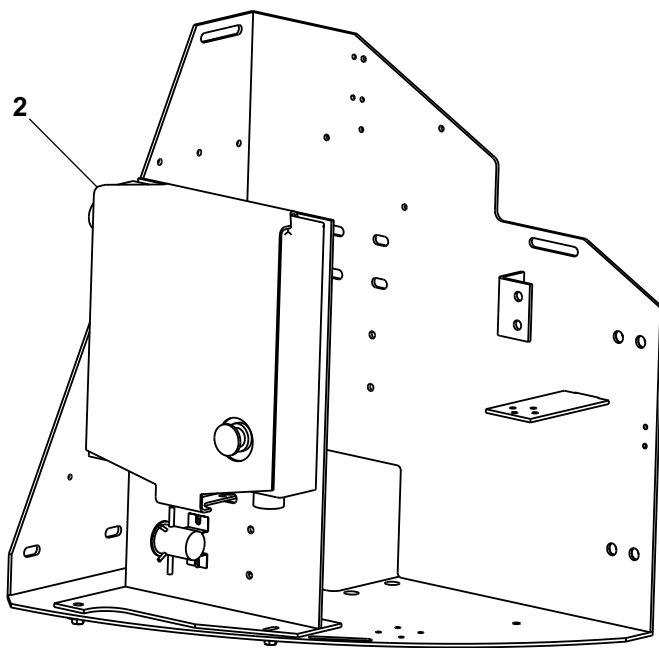
Upper control box cover

item	part no	qty	description
1	0162297-99	1	Cover, upper control box
2	984049	4	Nut #10-24 hex
3	5560304	4	Shoulder screw with locking pettet
4	5510015	1	Tension latch

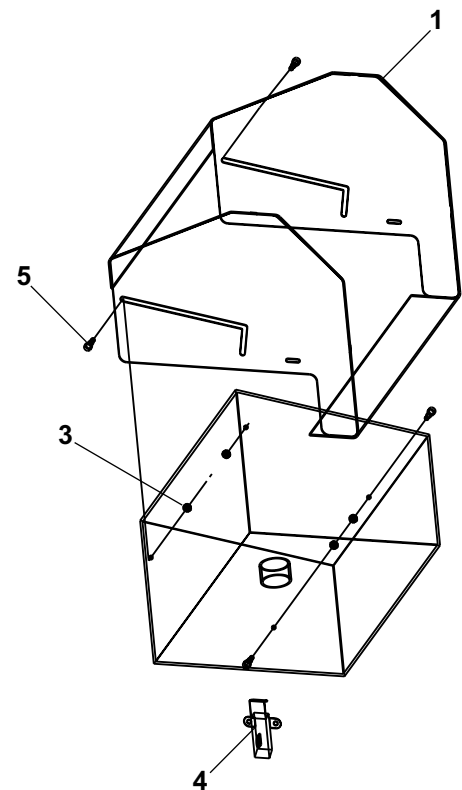


AWM00281

item	part no	qty	description
1	0162297-99	1	Cover, upper control box
2	0350871-99	1	Cover, lower control box
3	984049	4	Nut #10-24 hex
4	5510015	1	Tension latch
5	5560304	4	Shoulder screw with locking pettlet



Lower control box cover



Upper control box cover

AWM00282

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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
Tires and wheels	Good condition
Operating controls	Proper operation
Emergency stop	Shuts off controls
Level sensor	Proper operation
Emergency lowering	Proper operation
Weldments	No damage or deformation
Slide pads	Good condition
Fasteners	In place and tight
Lowering alarm	Sounds when platform lowers
Drive motion alarm	Sounds when aerial platform moves
Lanyard anchors	No damage or deformation
Horn	Sounds when activated
Electrical power outlet	Proper operation
Placards and decals	In place and readable

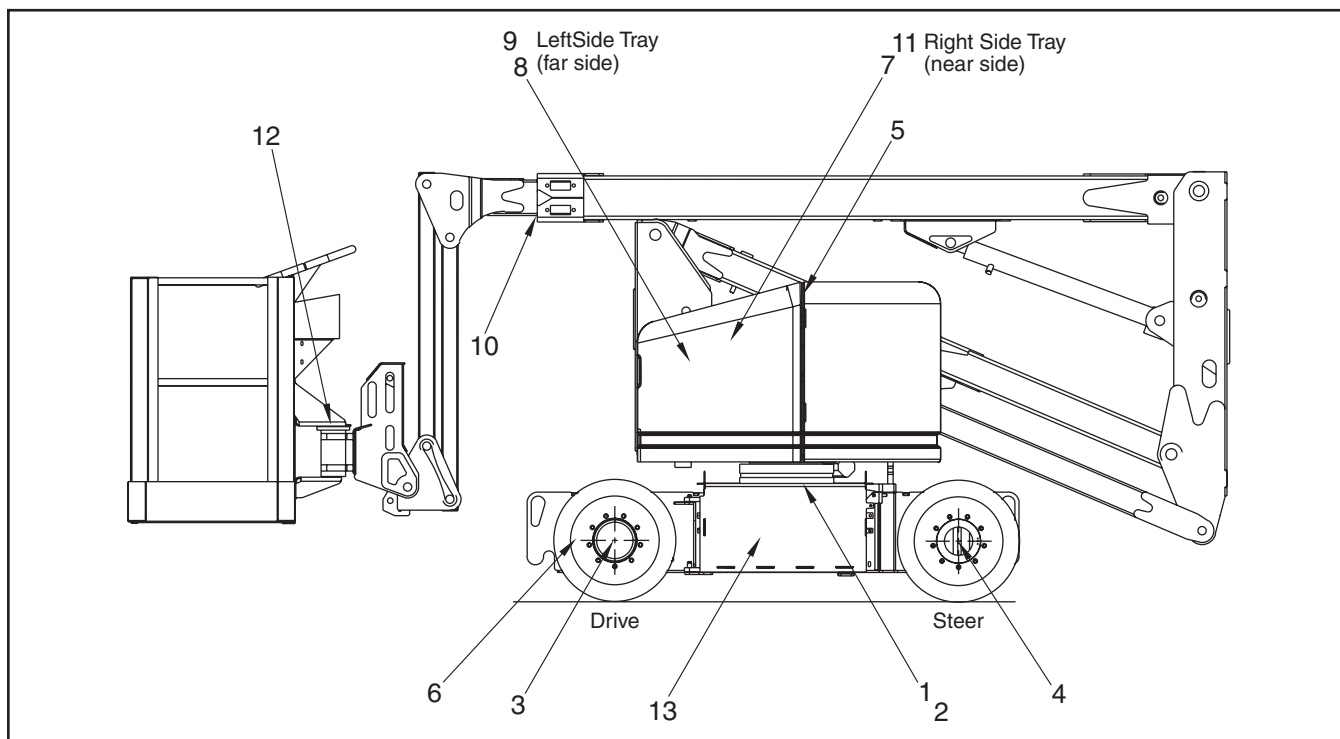
**90 day or 150 hour maintenance
(trained service technician)**

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
Rotation bearing	Lubricate	Conoco Super Sta #2 Above 32° Mobilgrease CM-P Below 32° Mobilgrease CM-L
Rotation bearing teeth & pinion	Lubricate	Mobil Mobiltac 375NC
Platform lift capacity	Check if platform can lift maximum load	
Platform rotator	Check smooth operation	Repair or replace if not working properly
Platform controller	Check smooth operation and speeds	
Platform lift/lower speeds	Check smooth operation and speeds	
Hydraulic return filter	Check condition	Replace if dirty
Slide pads	Check condition	Do not lubricate
Pivot bearings	Check condition	Do not lubricate

**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 reservoir suction filter	Clean and reinstall	
Hydraulic pressures	Check pressures	
Gear hubs	Replace fluid	Mobil Mobilube HD 80W-90
Platform controller	Check operation	
Ground controls	Check operation	
Front 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 AB38J.

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.

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.

Rotation bearing

Rotation bearing (item 1.): Pressure gun lubricate bearing at recommended interval using lubricant as outlined in the maintenance schedule. Rotate while lubricating. Lubrication fitting is located on the front plate of the turntable.

Rotation gear teeth and pinion

Rotation gear teeth and pinion (item 2.): Gear teeth and gear box pinion should be lubricated with a spray-on type open gear lubricant.

Gear hubs

Gear hubs (item 3.): To check and fill Gear hubs:

1. Rotate wheel until bottom of filler/drain plug is about 1 inch above horizontal centerline.
2. Remove plug with drive ratchet and extension.
3. Fill until lubricant is level with bottom of fill hole.

Note:

Do not overfill gear hubs as they are not vented and need air space for expansion of oil to prevent damage to hubs.

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 as outlined in the maintenance schedule.

Clean and repack wheel bearings following normal automotive procedures.

Door hinges and latches

Door Hinges and Latches (item 5.): 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.

Electric drive motor

Electric drive motor (item 6.): The electric drive motor used on the AB38J is a special motor designed for use on this machine.

▲CAUTION

Do not replace the drive motor with any other type of electric motor except for factory authorized replacement motors. Standard electric motors will not work.

Hydraulic oil reservoir

Hydraulic oil reservoir (item 7.): The fluid level should be kept level with the indicator line on 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 8.): The hydraulic oil return filter is mounted in the right hand tray assembly.

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.

The filter is equipped with a hydraulic pressure gauge to indicate the filter element condition.

A by-pass relief within the filter base is provided and is set to by-pass at 25 PSI. If pressure readings are above 25 PSI, the filter should be changed.

The filter condition indicator is accurate only when the machine is running at maximum RPM and the pump is discharging maximum flow, which occurs only during full speed driving.

This requires that the indicator be observed while the unit is in motion, booms fully retracted and in stowed position, and the machine set for low speed drive. The oil temperature should be at least 70° F.

▲CAUTION

Use extreme caution while observing the condition indicator because of the motion of the drive wheels. The condition indicator is best observed from outside the track of the vehicle wheels to avoid a possible unsafe condition.

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.

Suction filter

Suction filter (item 9.): A 100 mesh suction filter is located within the hydraulic oil reservoir and filters the pump suction flow.

The filter is cleanable and should be cleaned at the time interval shown in the maintenance schedule chart, using Kerosene, Fuel oil or other solvent and a soft bristled brush.

Inspect the filter for damage to wire cloth. Holes in the filter cloth leak dirt into the pump and other vital hydraulic components. If the filter element is damaged, replace.

When the filter has been thoroughly cleaned, reinstall the filter on the suction line and tighten securely.

Slide pads

Slide pads (item 10.): Check slide pads for excessive wear and replace as required.

Slide pads do not require lubrication.

Emergency power battery

Emergency power battery (item 11.): AB38J machines are equipped with a 12 volt battery for use in an emergency situation if the main battery power should fail.

This battery should be maintained as outlined in the Battery care and maintenance section that follows.

Platform rotator

Platform rotator (item 12.): The platform rotator required lubrication only if disassembled for repairs.

Consult the factory for proper lubricant is replacement of the platform rotator is required.

Batteries

Batteries (item 13.): The battery 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 battery will maintain proper charge.

Check specific gravity of battery per 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 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.

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.

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

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.
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

AB38J 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 11/2 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.

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
Chassis			
Structural (1)			
Steering cylinder pin caps and snap rings (2,6)			
Steering linkage (4)			
Tires, solid (5)			
Hydraulic tubes and hoses (3,5)			
Decals and placards (2,8)			
Torque drive wheel lug nuts per placard on wheel (6)			
Torque steer wheel lug nuts per placard on wheel (6)			
Right drive motor (4)			
Left drive motor (4)			
Battery Charger (4)			
Battery disconnect switch (4)			
Lubrication points			
Wire harness (5)			
Turntable			
Structural (1)			
Torque turntable top bolts @ 180 ft. lbs. (6)			
Torque turntable bottom bolts @ 180 ft. lbs. (6)			
Hydraulic tubes and hoses (3,5)			
Cowling (5,6)			
Wire Harness (2,5)			
Decals and placards (2,8)			
Swing motor bolts (6)			
Lower booms			
Structural (1)			
Boom lift cylinder pin caps (2,6)			
Boom lift cylinder holding valve (3,4)			
Riser lift cylinder pin caps (2,6)			
Riser lift cylinder and holding valve (3,4)			
Master level cylinder pin caps (2,6)			
Hydraulic hoses and tubes (3,5)			
Electrical wires (5)			
Boom cradle switch and mount (4,5)			
Right hand tray assembly			
Structural (1)			
Hydraulic oil reservoir (2,3,5)			
Hydraulic oil reservoir filler/breather cap (2,6)			
Hydraulic oil reservoir fluid level (5)			
Hydraulic hoses and tubes (3,5)			
Hydraulic pump (4)			
Pump controller (4)			
DC/DC converter (4)			

Check	OK	✓	X
Emergency battery (5)			
Left hand tray assembly			
Structural (1)			
Emergency hydraulic pump (4)			
Wire harnesses (2,5)			
Control valve (3,4)			
Hydraulic hoses and tubes (3,5)			
Accumulator (5)			
Filter minder gauge (4)			
Hydraulic oil return filter (3,4)			
5° tilt alarm (4)			
System pressures (4)			
Upper booms			
Structural (1)			
Electrical wires (5)			
Extension cylinder pin caps (2,6)			
Jib cylinder pin caps and retaining rings (2,6)			
Jib cylinder and holding valve (3,4)			
Slave level cylinder pin caps (2,6)			
Slave level cylinder holding valves (3,4)			
Power trak assembly (2,4,7)			
Hydraulic hoses and tubes (3,5)			
Decals and placards (2,8)			
Platform rotator - ATB 38 only (3,4)			
Platform rotation holding valve - ATB 38 only (3,4)			
Platform rotator mounting bolts - ATB 38 only (2,6)			
Platform			
Structural (1)			
Decals and placards (2,8)			
Platform gate (4)			
Platform mounting bolts (2,6)			
Correct operators manual in document holder (2)			
Batteries			
Battery terminals (6,7)			
Battery electrolyte level (5)			
Ground control station			
Station selector switch - ground controls PLATFORM CONTROLS DO NOT WORK (4)			
Station selector switch - platform controls GROUND CONTROLS DO NOT WORK (4)			
Keyed master switch (4)			
Audible alarm (4)			
Turntable rotation (4)			
Riser boom lift UP-DOWN (4)			
Main boom lift UP-DOWN (4)			
Jib boom lift UP-DOWN (4)			
Boom extension - ATB 38 only IN-OUT (4)			
Platform leveling (4)			
Platform rotation - ATB 38 only (4)			
Emergency power, all functions (4)			
Emergency stop (4)			

Check	OK	✓	X
Optional equipment			
Airline to platform (2,4)			
All motion warning alarm (2,4)			
Operation warning light (2,4)			
Optional platform (2,4)			
Sandblast protection (2,4)			
Vandalism protection (2,4)			
Descent alarm (2,4)			
Travel alarm (2,4)			
Platform swinging gate (2,4)			
Ground fault circuit interrupt (2,4)			

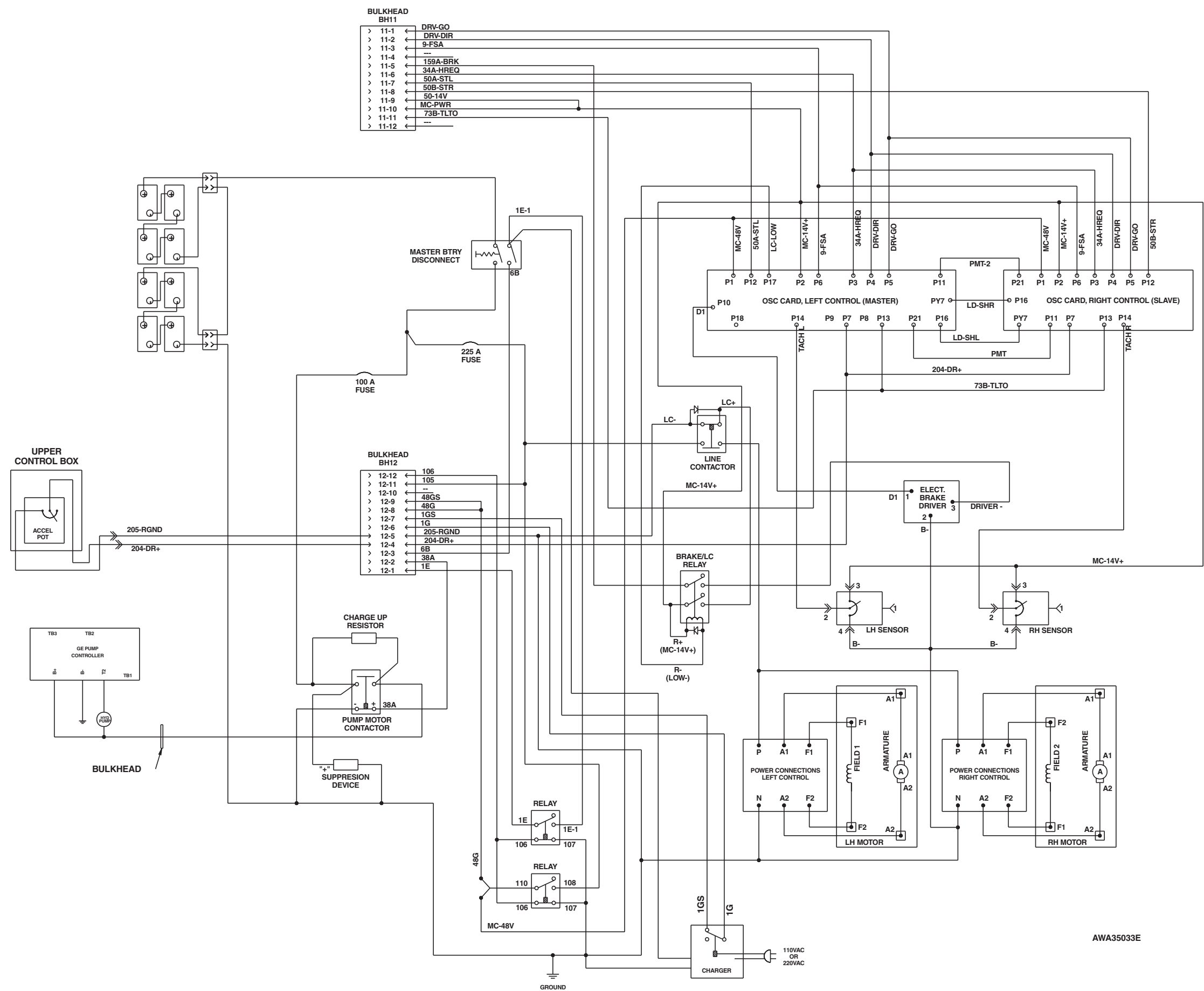
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Inspected By: _____ Date _____

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.



F

E

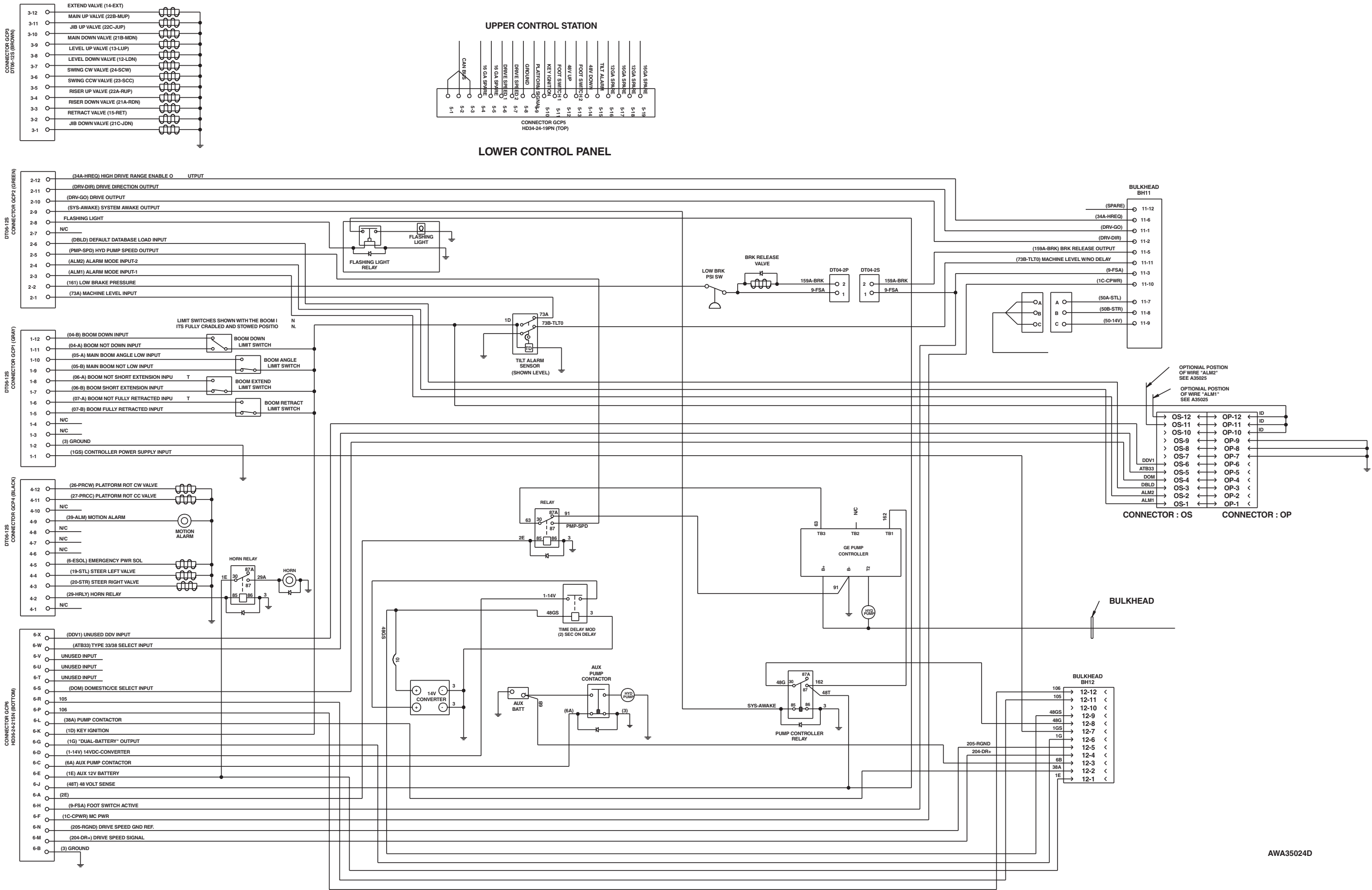
D

C

B

A

LOWER CONTROL PANEL CONNECTIONS



AWA35024D



