SKYJACK

PARTS MANUAL

SJ12 E, SJ16 E, SJ20 E

VERTICAL MAST LIFTS



241913ACA
June 8, 2022
ANSI/CSA, CE, AS

This manual is for MEWPs with serial numbers:

SJ12 E, SJ16 E, SJ20 E: A601 000 906 - A601 999 999

Please refer to the website (www.skyjack.com) for contact information, other serial numbers, the most recent technical manuals, and USB software.

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Foreword

General

The information contained in this manual is designed to aid the user in locating and identifying replacement parts. Component parts of various assemblies and subassemblies comprising the work platform are illustrated and accompanied by a descriptive parts list. Exploded drawings are used to show relative location of component parts in disassembly order. If a part cannot be found in this manual, contact your local Skyjack Parts Department for assistance.

Parts Ordering Information

When ordering replacement parts, the complete part number and description should be used to ensure proper identification and delivery of the desired item. This complete identification should also be used when requesting equipment information.

Method of Listing

Parts are listed in order according to the reference number shown in the illustration, followed by a full description based upon the “NOUN FIRST” method. That is, the noun name of the part is listed first, then the modifying description information which serves to specifically identify the item. For example: PIN, Clevis.

Assemblies at the beginning of a parts list may be identified with a reference letter: A, B, C, etc. These letters are used to identify different configurations of the assembly. Individual parts in these lists have corresponding letters after their description to identify which assembly it is used in. If a part does not have a reference letter, it is used in all of the assemblies.

Bullets (•) are used to show the assembly structure, or parent/child relationship. A part listed at the beginning of the parts list without a bullet before the description is the main assembly, and all of the parts below it with one bullet are the subcomponent parts of that assembly. Two bullets denote a subcomponent of a subcomponent, etc.

Example:

Main Assembly A

- Part 1 (subcomponent of Main Assembly A)
- Part 2 (subcomponent of Main Assembly A)
- • Part 3 (subcomponent of Part 2)

Quantities

The quantities required to complete the assembly are given for each part. If the quantity is (AR), it is understood that the quantity may vary when the machine is equipped with certain options. Order quantity as needed.

How To Order Repair Parts

1. Address all orders to your local SKYJACK dealer.
2. Specify model and serial number of the work platform (found on the serial number plate).
3. List the quantity needed.
4. List the length needed (if it is a bulk item).
5. List the part number and description as shown in this manual for each item.
6. Show the billing and shipping address and the name of the individual, if possible.
7. Suggest the best routing.

Customer: _____

Dealer: _____

Model Number: _____

Serial Number: _____

Date Purchased: _____

USE ONLY SKYJACK AUTHORIZED REPLACEMENT PARTS!

Recommended Service Parts

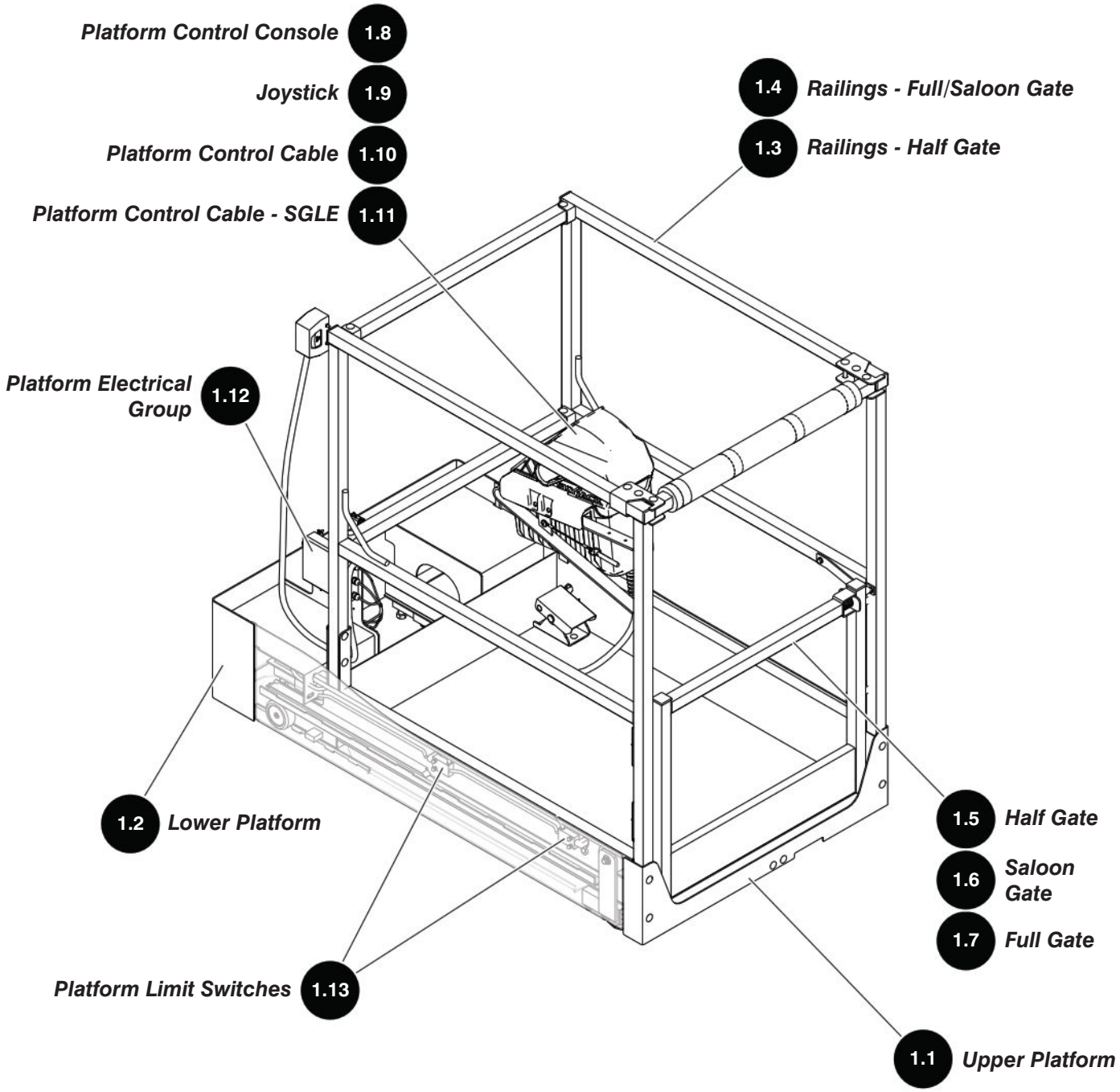
Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
Mechanical				
Platform Roller	0	0	4	151677
Wear Pad (Thick and Short)	0	6/8	6/8	158087
Wear Pad (Thin and Long)	0	4/6	4/6	159398
Wear Pad (Thin and Short)	0	6/8	6/8	157763
Wear Pad (Thick and Long)	0	4/6	4/6	159399
Pin Assembly - large loop	2	2	2	216212
Manual Box	1	1	1	198789
Key, Base Control Box	2	2	2	104466
Gate Latch	0	1	1	110824
Gate Hinges	0	2	2	209527
Batteries				
Battery, wet 6VDC 232Ah (ANSI/CSA, CE, AS)	0	4	4	103480
AGM Battery, dry 6VDC 220Ah (ANSI/CSA)	0	4	4	160933
Electrical				
Limit switch - platform extended LS4 (ANSI/CSA, AS and CE)	0	1	1	199405
Limit switch - service position LS3 (ANSI/CSA, AS and CE)	0	1	1	199405
Limit switch - base LS1	0	1	1	199405
Emergency Stop Head (Platform and Base)	1	1	2	147051
E-Stop Contact Block NC (Platform and Base)	1	2	2	147053
LED Block, Red 24V	1	1	2	147061
Latch, Switch Contact Blocks	1	2	4	147056
Contact Block NO (Horn, Base Selector, and Up/Down switch)	1	2	2	147054
Pushbutton Head, Black (Horn)	0	1	1	147058
Toggle Switch (Lift/Off/Drive)	0	1	1	234118
Relay 24V 40A Sealed	0	2	4	108589
Tilt switch	0	1	1	234997
Contactor, Switch Solenoid	0	1	1	165865
Base Selector Switch Head (Up/Down)	0	1	1	147054
Keyed Selector Switch, (Idle/Platform/Base) (ANSI/CSA, AS)	0	1	1	149536
Keyed Selector Switch, (Idle/Platform/Base) (CE)	0	1	1	213698
Joystick	0	0	1	234007
Horn	0	1	1	146649
Beeper	0	1	1	215817
Fuse	1	1	1	216103
Toggle Switch, Brake Release	1	1	1	115573

Recommended Service Parts

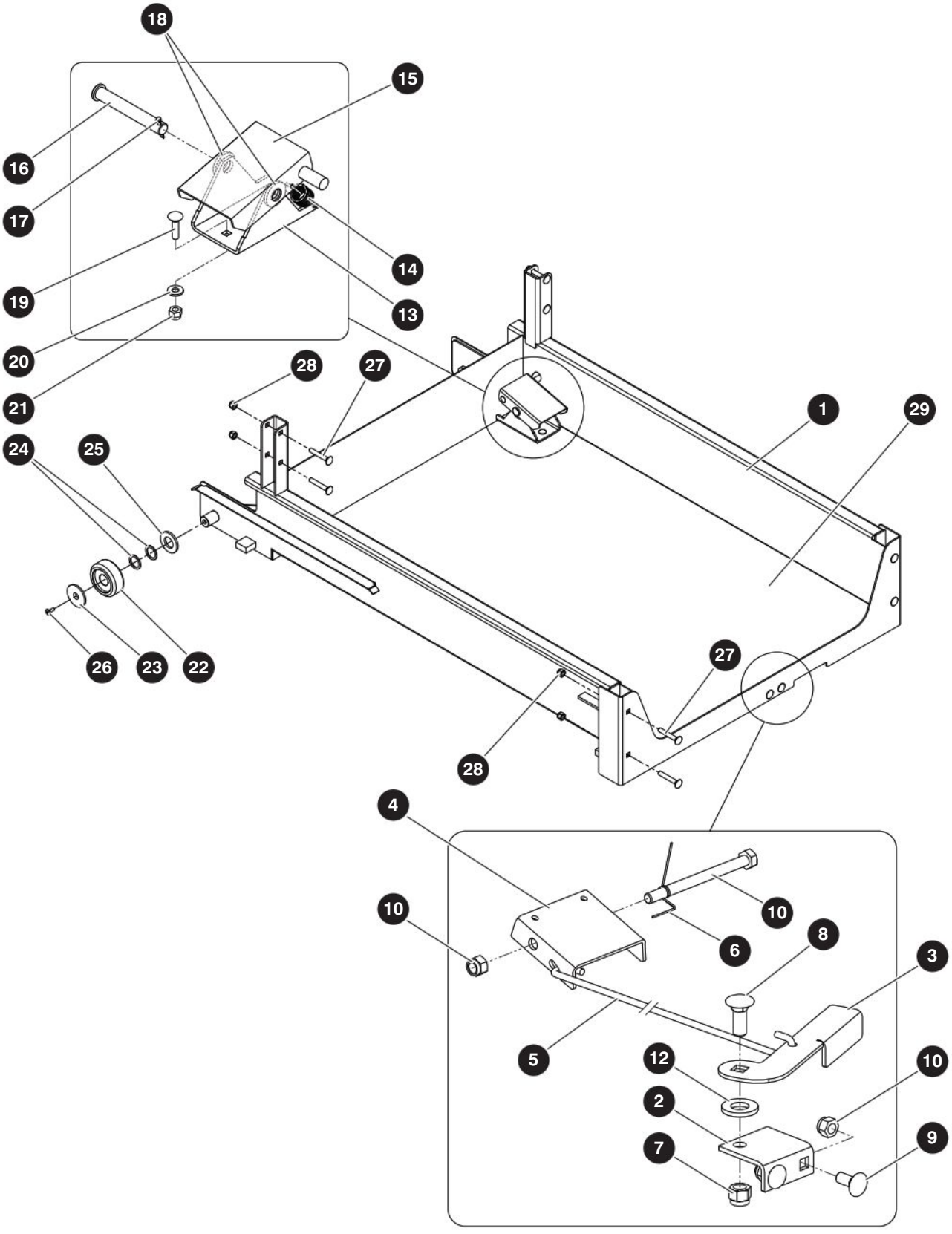
Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
Hydraulic				
Seal Kit - Lift Cylinder(s)	0	1	1	234652
Valve, Hold/Emergency Lowering	0	1	1	151696
Seal Kit - Steer Cylinder	0	1	1	104995
Seal Kit - Powerpack	0	0	1	156961
Valve, Lift	0	0	1	234713
Valve, Steer	0	0	1	234714
Coil, Steer and Lift	0	0	1	234717
Hydraulic Filter, Spin On	1	1	1	234709

Notes

Section 1 – Platform



1.1 Upper Platform



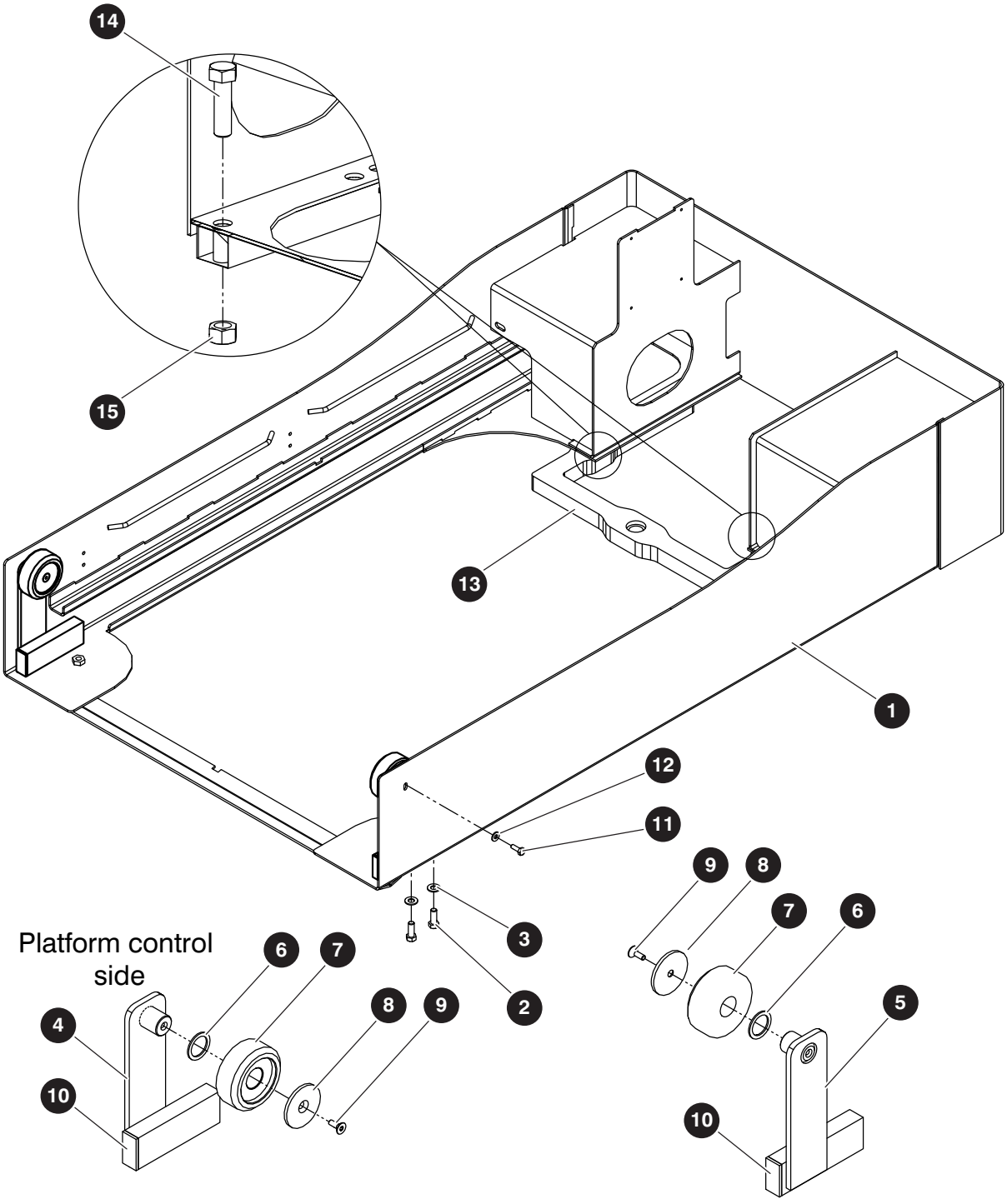
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234760

1.1 Upper Platform

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	UPPER PLATFORM ASSEMBLY
1	234761	1	• UPPER PLATFORM
-	151668	1	• SERVICE LOCK ASSEMBLY
2	151618	1	• • MOUNT, Service Lock
3	151619	1	• • HANDLE, Service Lock
4	151620	1	• • STRIKER, Service Lock
5	151623	1	• • ROD, Service Lock - 16" OPT
6	156551	1	• • SPRING, Torsion RHW
7	104606	1	• • NUT, Nylon Lock (3/8"-16 Gr. 5)
8	111804	1	• • BOLT, Carriage (3/8"-16 x 1" Gr. 5)
9	110814	2	• • BOLT, Carriage (5/16"-18 x 3/4" Gr. 5)
10	103984	3	• • NUT, Nylon Lock (5/16"-18 Gr. 5)
11	103882	1	• • BOLT, Hex Head (5/16"-18 x 4" Gr. 5)
12	104379	1	• • WASHER, Flat Hard (1/2")
13	234777	1	• • BASE, Foot pedal
14	158100	1	• • SPRING, Extension (3/4" Dia x 2" Length)
-	234776	1	• FOOTPEDAL ASSEMBLY
15	158370	1	• • FOOTPEDAL
16	157441	1	• • PIN, Clevis (1/2" Dia x 1-1/2" Length)
17	157467	1	• • PIN, Cotter (1/8" Dia x 1" Length)
18	104379	2	• • WASHER, Flat (1/2" Hard)
19	233223	2	• • BOLT, Carriage (1/4"-20 x 1" Gr. 5 Zinc)
20	103995	2	• • WASHER, Flat (1/4")
21	115649	2	• • NUT, Nylon lock (1/4"-20 Gr. 5)
22	151677	2	• ROLLER (2-3/4" OD x 7/8" ID x 1.051")
23	151650	2	• WASHER, Retainer
24	116621	4	• SHIM, Slide Out Pin (1/16")
25	205682	2	• WASHER, Flat Hard Zinc (7/8")
26	110853	2	• SCREW, Flat Head Cap (1/4"-20 x 5/8" Gr. 5)
27	127437	8	• BOLT, Carriage (5/16"-18 x 2" Gr. 5)
28	103984	8	• NUT, Nylon Lock (5/16"-18 Gr. 5)
29	234198	1	• FLOOR MESH

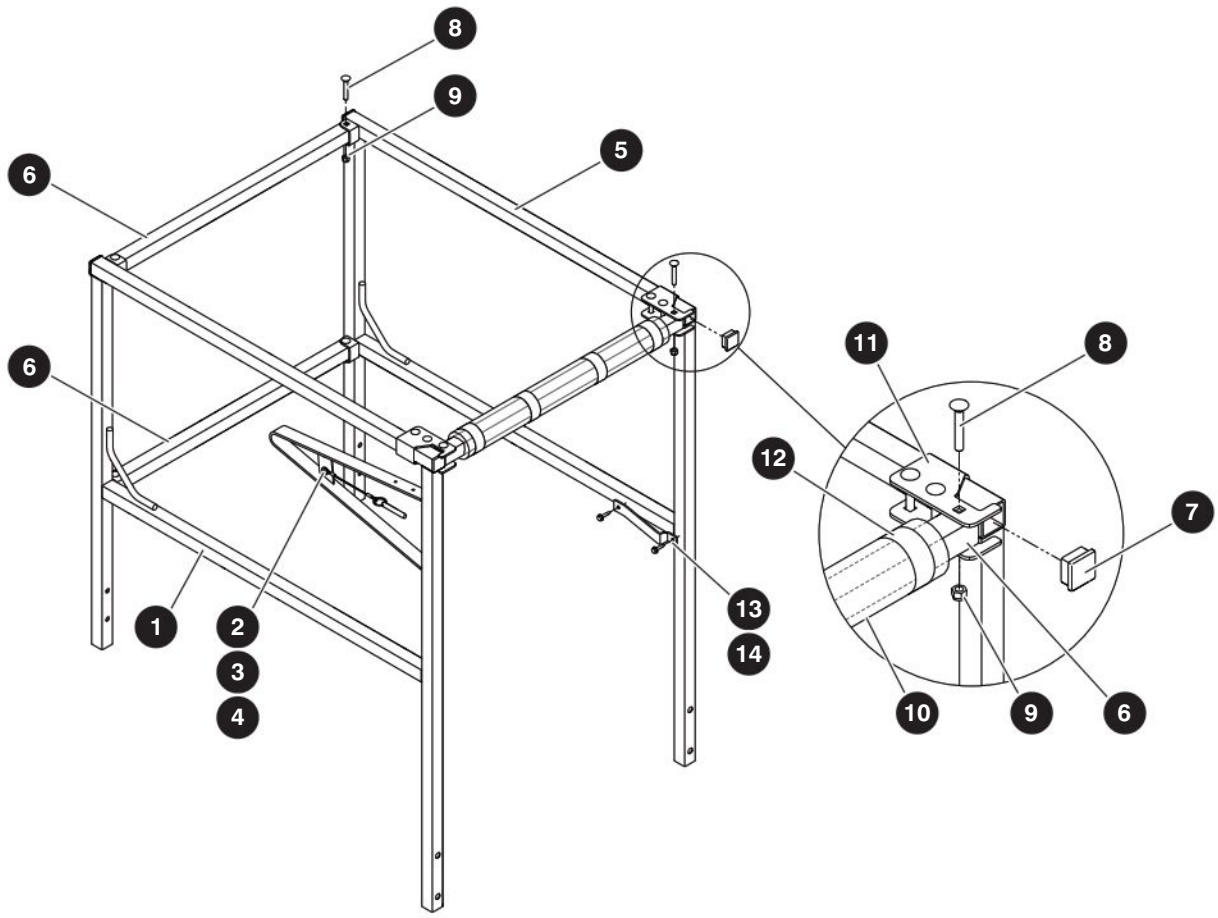
1.2 Lower Platform



1.2 Lower Platform

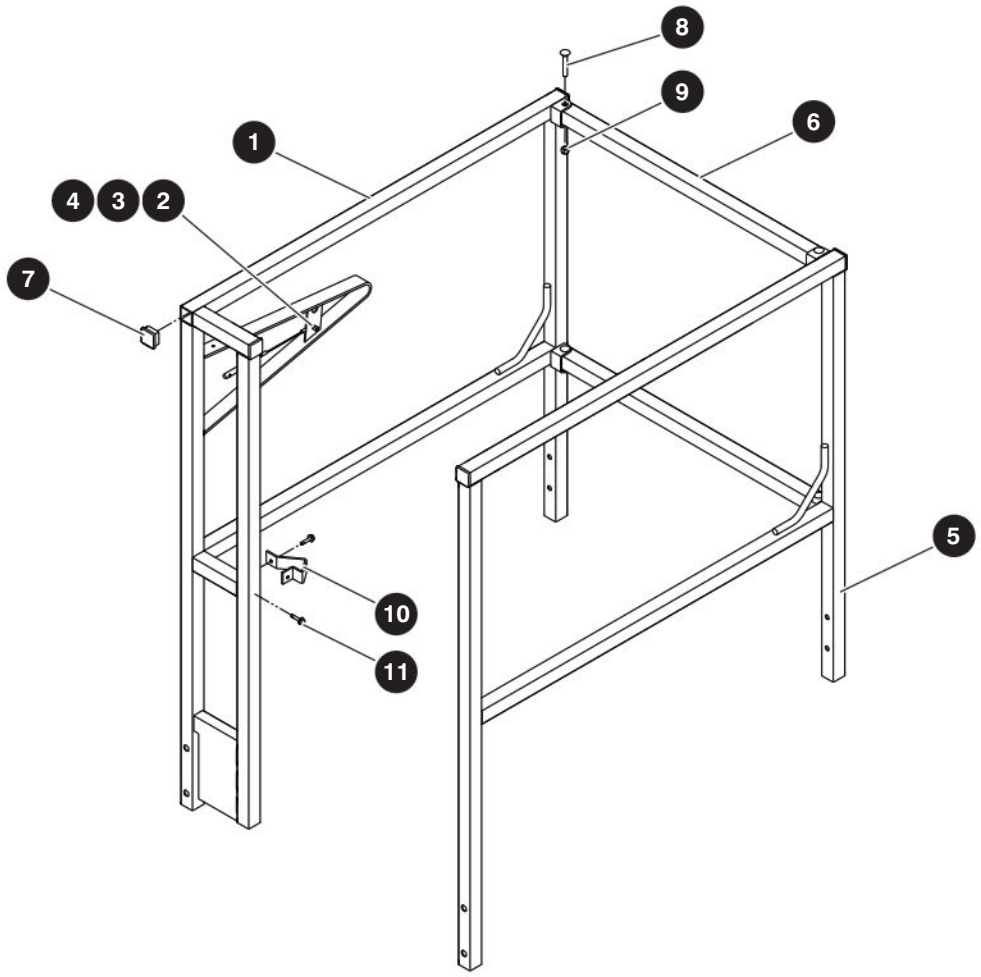
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	LOWER PLATFORM ASSEMBLY
1	234751	1	• LOWER PLATFORM
2	103473	4	• BOLT, Hex Head Zinc (3/8"-16 x 1" Gr. 5)
3	103472	4	• WASHER, Flat (3/8")
4	234233	1	• BRACKET, Front - Platform control side
5	234237	1	• BRACKET, Front - Base control side
6	116621	2	• SHIM, Slide Out Pin (1/16")
7	151677	2	• ROLLER (2-3/4" OD x 7/8" ID x 1.051")
8	151650	2	• WASHER, Retainer
9	110853	2	• SCREW, Flat Head Cap (1/4"-20 x 5/8" Gr. 5)
10	158841	2	• PAD, Polyurethane (1-1/2" x 3/4" x 1/8")
11	103856	2	• BOLT, Hex Head Zinc (1/4"-20 x 3/4" Gr. 5)
12	103995	2	• WASHER, Flat (1/4")
13	234435	1	• LINK, Platform
14	126361	2	• BOLT, Hex Head (1/2"-13 x 1-3/4" Gr. 8)
15	123856	2	• NUT, Hex (1/2"-13 Gr. 8)

1.3 Railings - Half Gate



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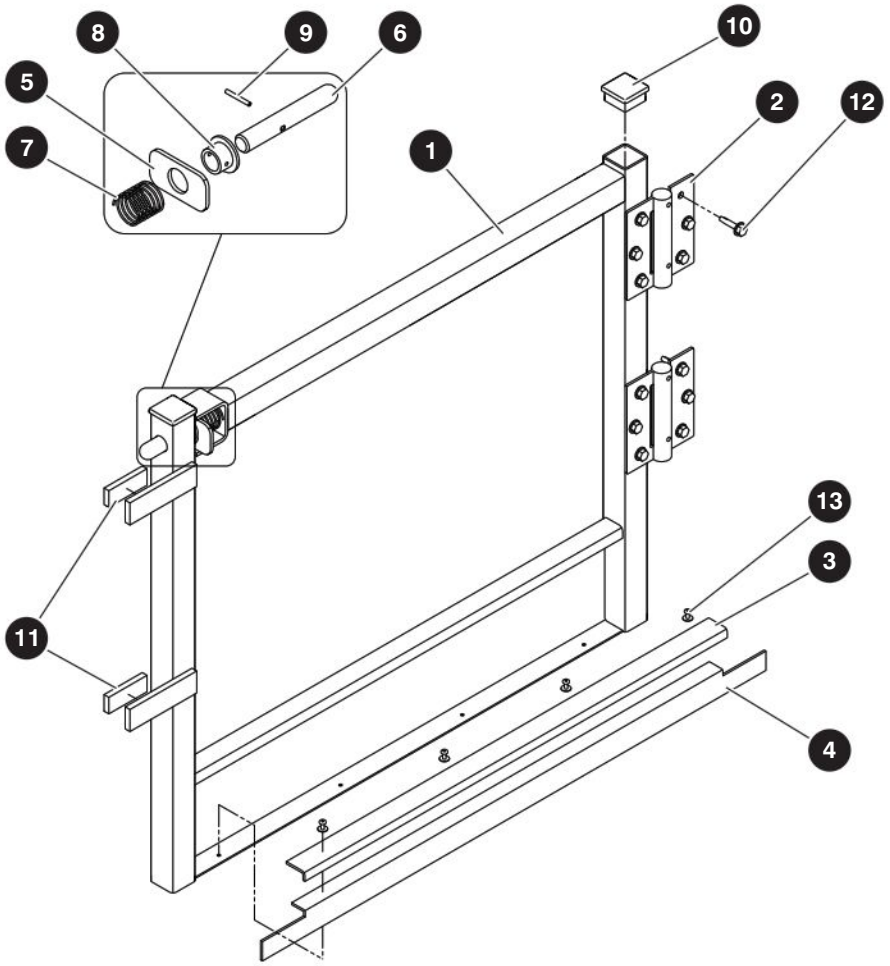
Index No.	Skyjack Part No.	Qty.	Description
1	234771	1	• RAILING, Platform control side
2	216212	1	• PIN ASM, Quick release - Large loop
3	157173	1	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
4	103995	1	• WASHER, Flat (1/4")
5	234772	1	• RAILING, Base control side
6	151478	3	• TUBE, Square (1-1/4" x 0.083" x 26-3/4")
7	100702	4	• PLUG, Plastic tube (1-1/4" x 1-1/4")
8	127437	10	• BOLT, Carriage (5/16"-18 x 2" Gr. 5)
9	103984	10	• NUT, Nylon lock (5/16"-18 Gr. 5)
10	125691	1	• PADDING, Entry railing
11	156486	2	• MOUNT, Top bar
12	119803	4"	• TAPE, Caution
13	230100	1	• STRIKER
14	112329	2	• BOLT, Self tapping (1/4"-14 x 1")



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Index No.	Skyjack Part No.	Qty.	Description
1	234769	1	• RAILING, Platform control side
2	216212	1	• PIN ASM, Quick release - Large loop
3	157173	1	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
4	103995	1	• WASHER, Flat (1/4")
5	234772	1	• RAILING, Base control side
6	151478	2	• TUBE, Square (1-1/4" x 0.083" x 26-3/4")
7	100702	5	• PLUG, Plastic tube (1-1/4" x 1-1/4")
8	127437	4	• BOLT, Carriage (5/16"-18 x 2" Gr. 5)
9	103984	4	• NUT, Nylon lock (5/16"-18 Gr. 5)
10	110693	1	• PLATE, Stop gate latch **(Full gate only)**
11	112329	2	• BOLT, Self-tapping (1/4"-14 x 1") **(Full gate only)**

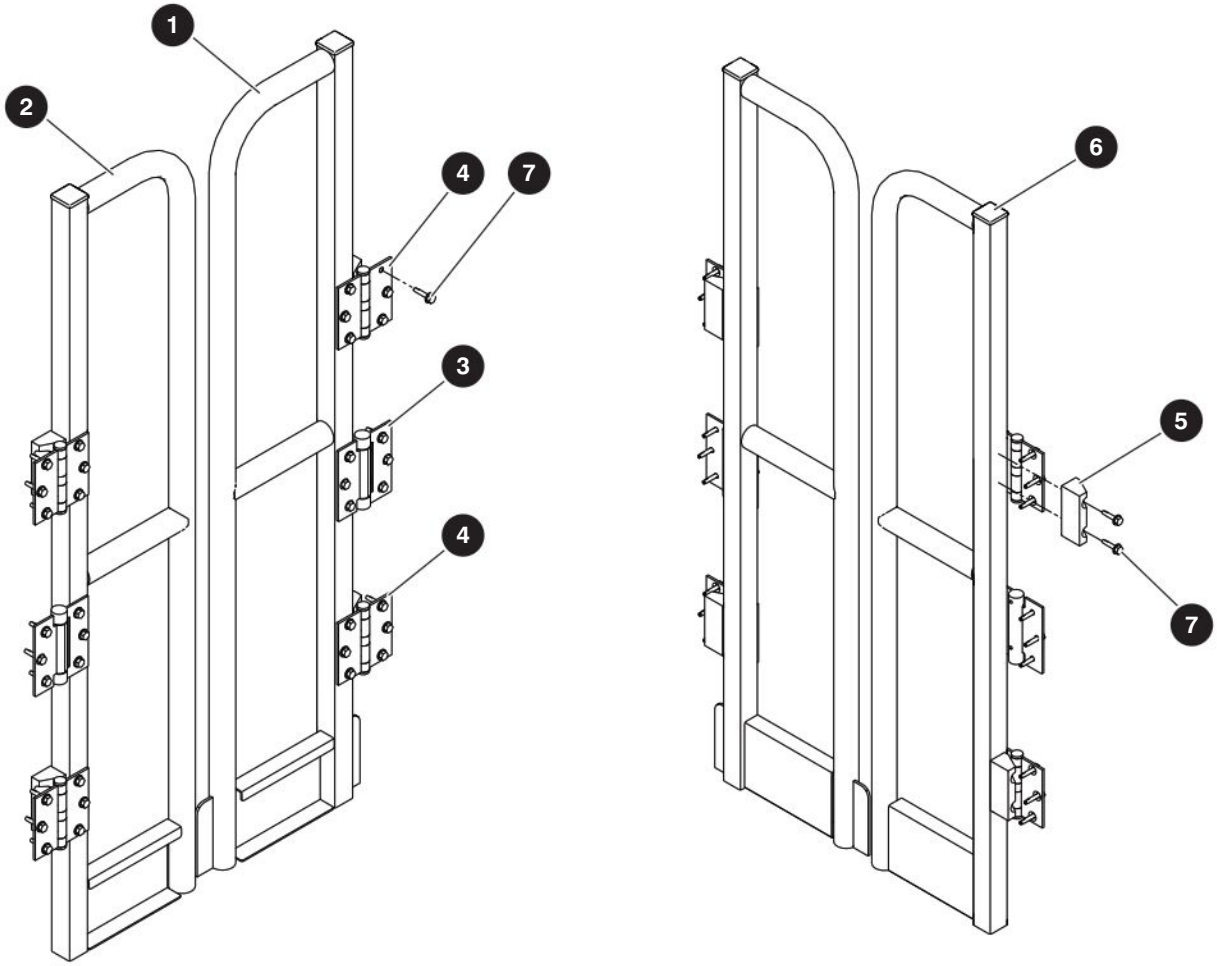
Notes



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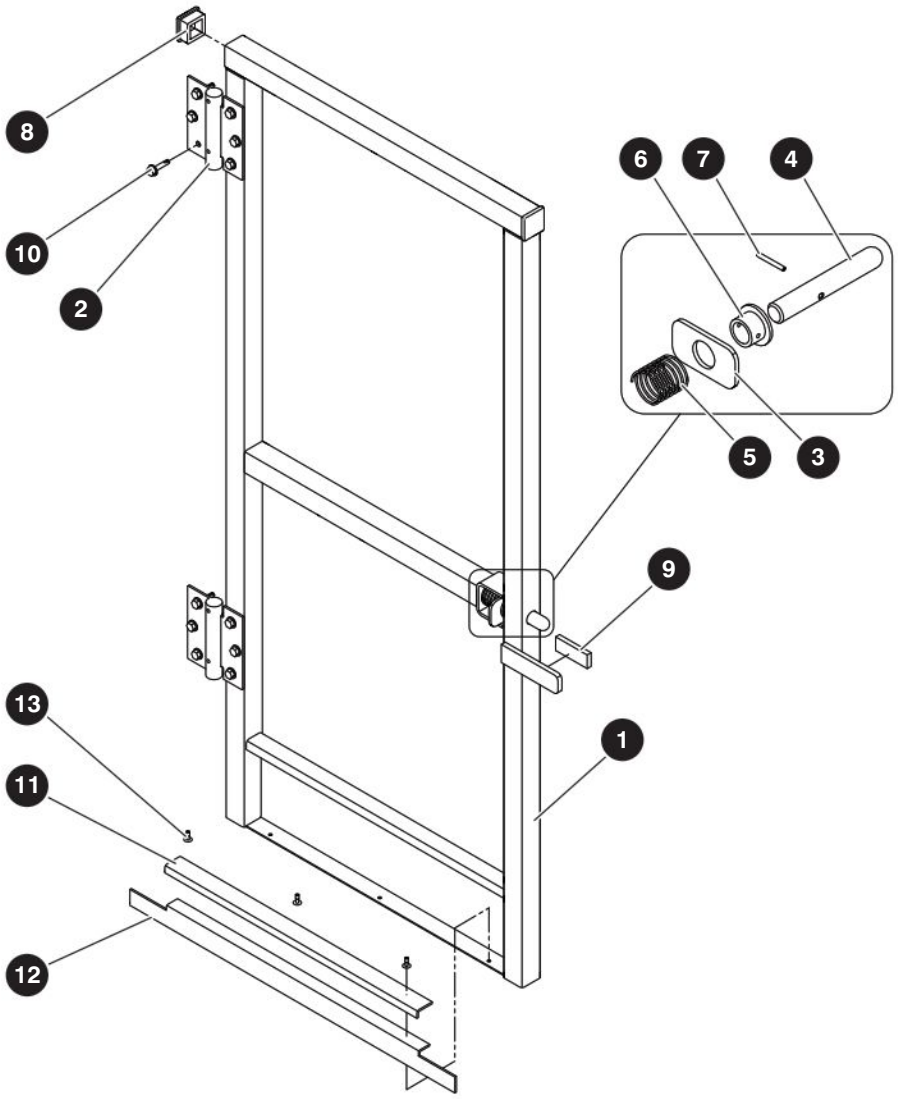
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	HALF GATE
1	226475	1	• GATE, Half gate - Lower
2	209527	2	• SPRING HINGE
3	119942	1	• PLATE, Gate clamp
4	119940	1	• STRIP, Rubber
5	105307	1	• PLATE, Gate latch release
6	109377	1	• PIN, Latch
7	103107	1	• SPRING, Compression
8	105312	1	• Latch, Nylon bed
9	100950	1	• PIN, Roll (1/8" x 1")
10	100702	2	• PLUG, Plastic Tube (1-1/4" X 1-1/4")
11	103628	4	• RUBBER, Self-Seal
12	112329	12	• BOLT, Self tapping (1/4"-14 x 1")
13	119945	4	• RIVET, Pop (1/8" x 0.390" AL LG FLG HD O-END)

1.6 Saloon Gate



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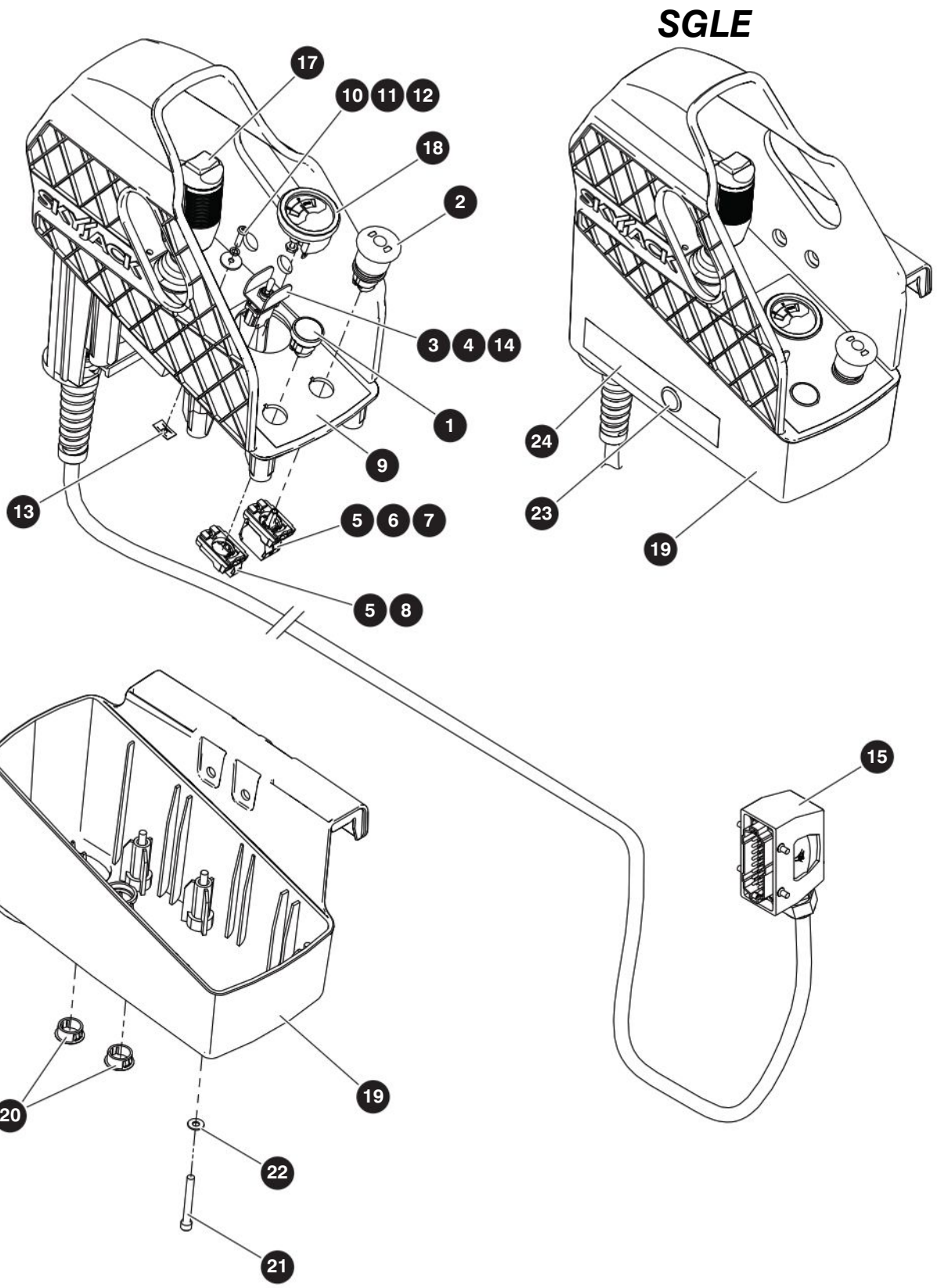
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	SALOON GATE ASSEMBLY
1	158793	1	• GATE, Saloon - Control box side
2	158792	1	• GATE, Saloon
3	209527	2	• SPRING HINGE
4	136176	4	• BUTT HINGE
5	158811	4	• GATE STOP, Saloon gate
6	100702	2	• PLUG, Plastic tube (1-1/4" x 1-1/4")
7	112329	44	• BOLT, Self tapping (1/4"-14 x 1")



M234780AB 234780

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	FULL GATE ASSEMBLY
1	234781	1	• FULL GATE
2	209527	2	• SPRING HINGE
3	105307	1	• PLATE, Gate latch release
4	109377	1	• PIN, Latch
5	103107	1	• COMPRESSION SPRING
6	105312	1	• LATCH, Nylon bed
7	100950	1	• PIN, Roll (1/8" x 1")
8	100702	2	• PLUG, Plastic tube (1-1/4" x 1-1/4")
9	103628	2	• RUBBER, Self-Seal
10	112329	12	• BOLT, Self Tapping (1/4"-14 x 1")
11	156589	1	• PLATE, Gate clamp
12	156590	1	• STRIP, Rubber
13	119945	3	• RIVET, Pop (1/8" x 0.390" AL LG FLG HD O-END)

1.8 Platform Control Console



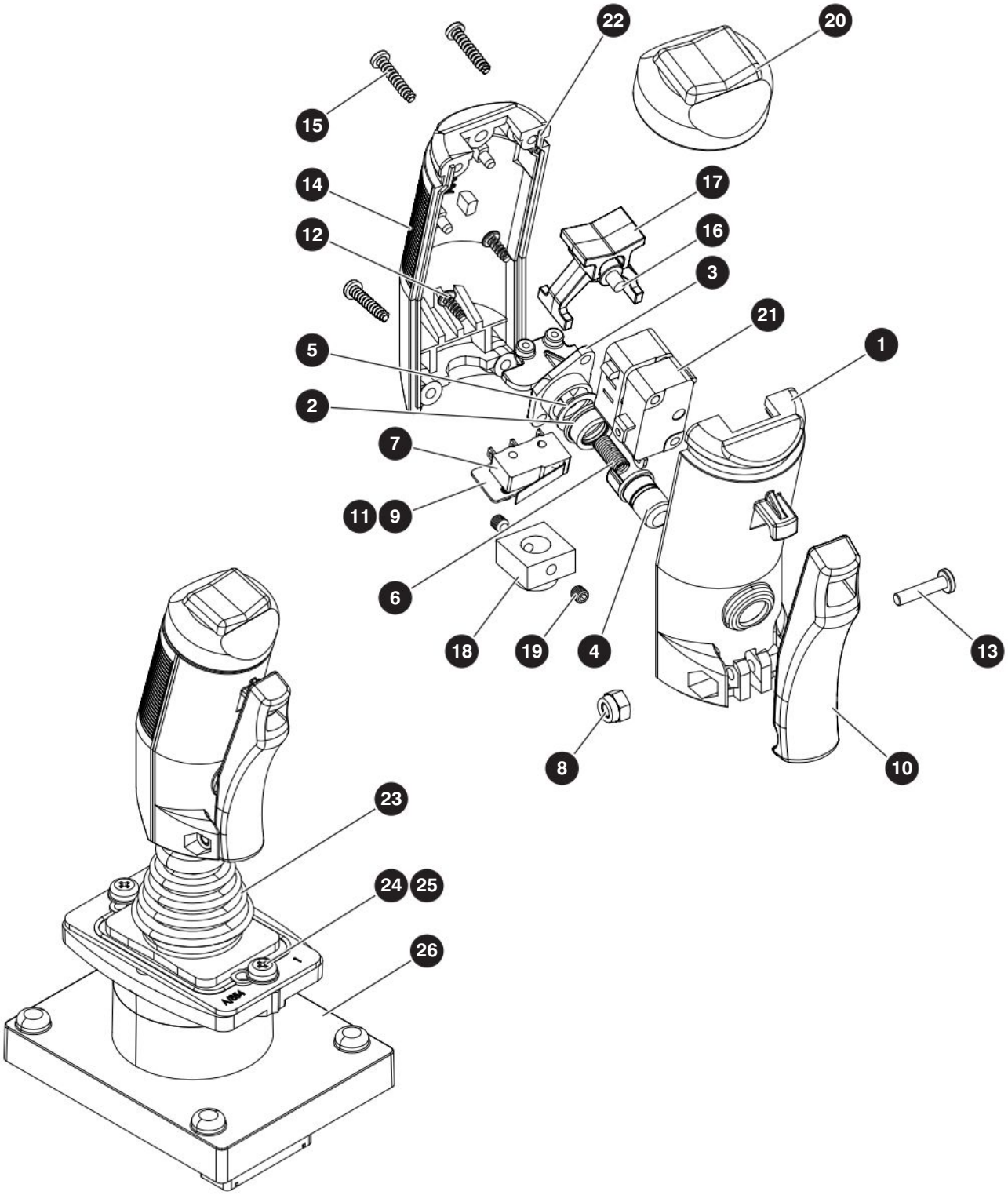
M234035AC

234035, 234133

1.8 Platform Control Console

Index No.	Skyjack Part No.	Qty.	Description
A	234035	1	PLATFORM CONTROL CONSOLE
B	234133	1	PLATFORM CONTROL CONSOLE - SGLE (Note: Not interchangeable. The SGLE option requires parameter changes.)
1	147058	1	• PUSHBUTTON HEAD, Black
2	147051	1	• EMERGENCY STOP HEAD
3	111181	1	• GUARD, Toggle switch
4	144016	1	• SEAL, Toggle switch panel bushing
5	147056	2	• LATCH
6	147061	1	• LED BLOCK, Red - 24V
7	147053	1	• CONTACT BLOCK, Normally closed
8	147054	1	• CONTACT BLOCK, Normally open
9	(Ref.)	1	• LABEL, Platform controls - SJ20 *(For components, refer to Section 7.5 Labels)*
10	192776	1	• BOLT, Button head cap screw (#10-24 x 3/4")
11	104185	1	• WASHER, Lock (#10)
12	168040	1	• WASHER, Fender type B (3/16" ID x 3/4" OD)
13	213782	1	• PUSH NUT, Rectangular (#10-24)
14	234118	1	• SWITCH, Toggle - 1NT1-1
15	(Ref.)	1	• PLATFORM CONTROL CABLE - SJ20, ***A*** *(For components, refer to Section 1.10 Platform)*
	(Ref.)		• SGLE PLATFORM CONTROL CABLE - SJ20, ***B*** *(For components, refer to Section 1.11 Platform)*
16	196206	1	• COVER, DC control box
17	(Ref.)	1	• JOYSTICK, CAN enable *(For components, refer to Section 1.9 Joystick)*
18	122093	1	• INDICATOR, Battery charge
19	196205	1	• BASE, Control box, ***A***
	220965	1	• BASE, Control box - SGLE, ***B***
20	102956	2	• PLUG, Snap-in (7/8" hole)
21	103943	6	• SCREW, Socket head cap (1/4"-20 x 2")
22	221193	6	• WASHER, Flat (#10 zinc)
23	220960	1	• SWITCH, SGLE - With Harness, ***B***
24	(Ref.)	1	• LABEL, Enable - SGLE, ***B*** *(For components, refer to Section 7.5 Labels)*

1.9 Joystick



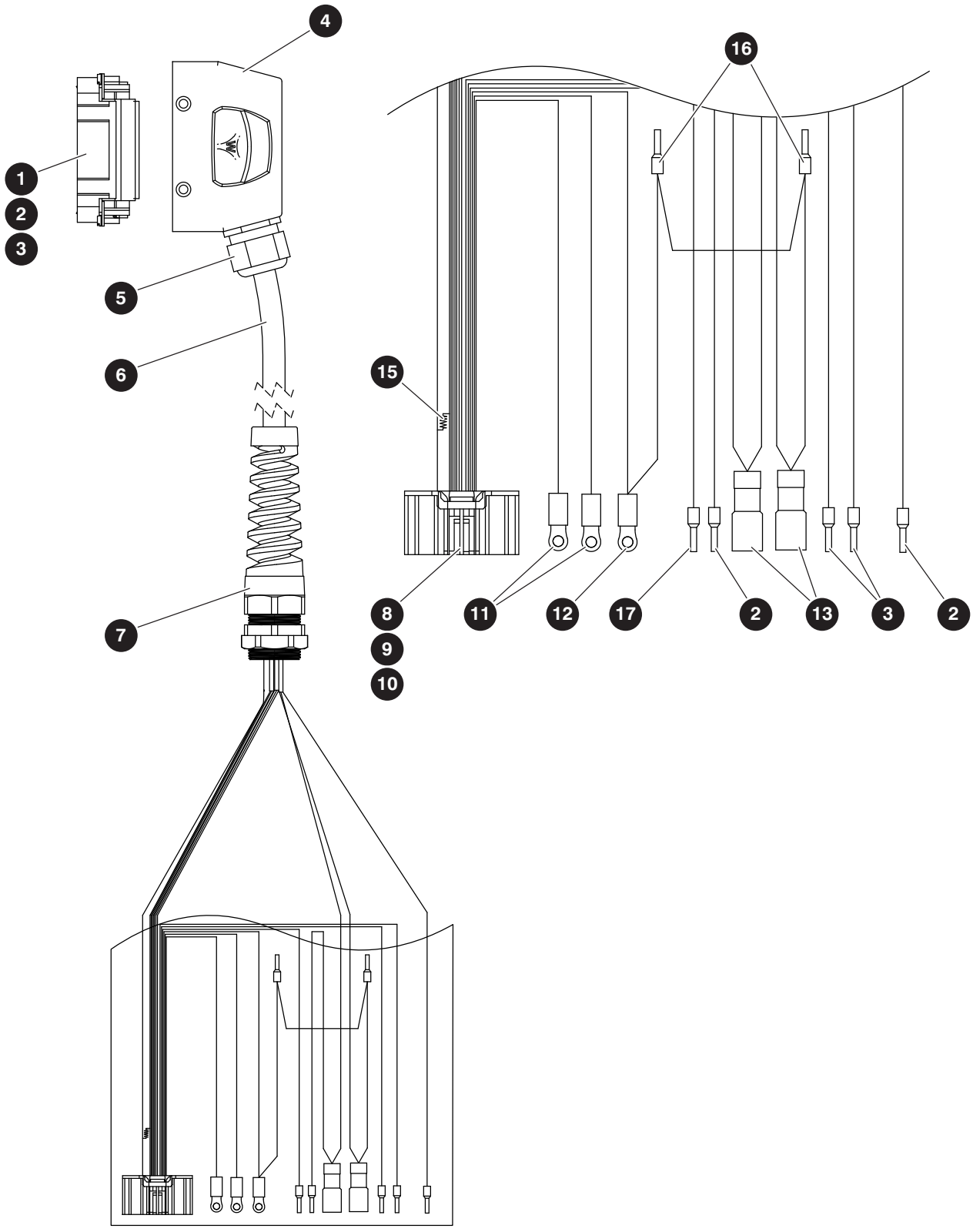
M234007AC

234007

1.9 Joystick

Index No.	Skyjack Part No.	Qty.	Description
-	234007	1	JOYSTICK
1	159057	1	• HANDLE, Front half
2	159062	1	• BOOT, Plunger switch
3	159061	1	• SWITCH, Plunger
4	159060	1	• HOLDER, Micro switch
5	159063	1	• WASHER
6	159064	1	• SPRING
7	159067	1	• SWITCH, Lever micro
8	122964	1	• NUT, Controller lever
9	159066	2	• SCREW, Plastite (#2-28 x 1/2")
10	159059	1	• LEVER, Trigger
11	159068	1	• INSULATOR, Micro
12	159065	2	• SCREW, Plastite (#4-20 x 5/16")
13	154718	1	• SCREW (#6-32 x 5/8")
14	159058	1	• HANDLE, Back half
15	122879	4	• SCREW, Controller handle
16	141341	1	• AXLE, Rocker
17	154717	1	• ROCKER
18	122961	1	• COUPLING (8mm)
19	122960	2	• SCREW, Set
20	122874	1	• CAP, Rubber
21	159613	1	• ROCKER MICRO
22	159070	2	• GASKET (4")
23	127179	1	• BOOT
24	122847	2	• WASHER
25	147313	2	• SCREW
26	238887	1	• LARGE PCB HOLDER

1.10 Platform Control Cable



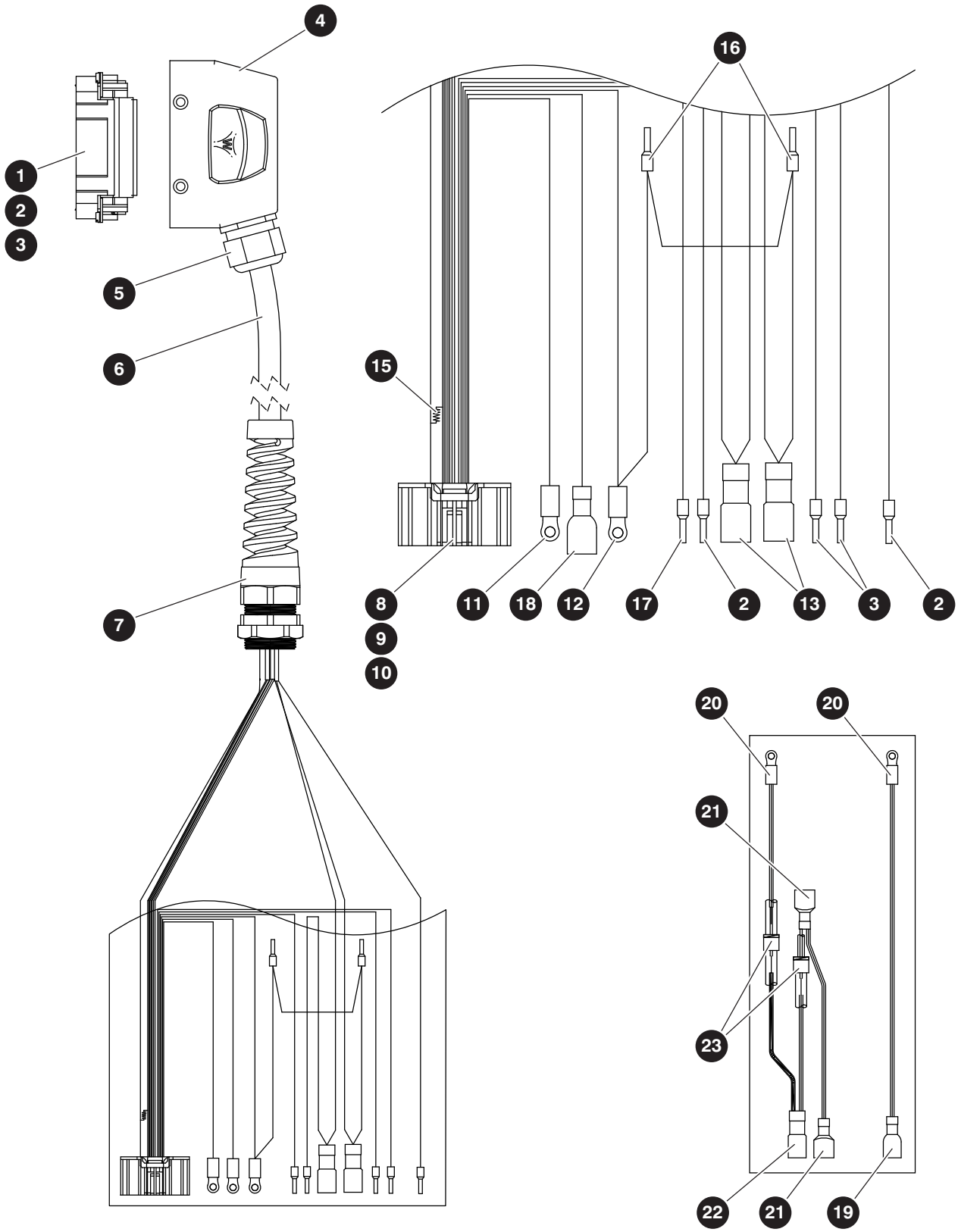
M234029AC

234029

1.10 Platform Control Cable

Index No.	Skyjack Part No.	Qty.	Description
-	234029	1	PLATFORM CONTROL CABLE
1	192084	1	• PLUG,16 Pole - Spring
2	121050	4	• CONNECTOR, Ferrule (16GA)
3	211449	15	• FERRULE (20GA)
4	234031	1	• HOUSING, Hood side entry - M25
5	234032	1	• STRAIN RELIEF (M25 x 1.5)
6	234121	103"	• CABLE, CANBUS - 11 Conductor
7	196141	1	• CORDGRIP, Flexible liquid tight
8	234024	1	• CONNECTOR, 32 pin socket - MX34
9	234025	2	• TERMINAL, Female - MX34 (20 AWG)
10	234026	11	• TERMINAL, Female - MX34 (18 AWG)
11	119749	2	• TERMINAL, #6 Ring - Red (22-18 AWG)
12	166889	1	• TERMINAL, #6 Ring (10-12 AWG)
13	105568	2	• TERMINAL, Female (10-12 AWG Nylon Yellow)
14	108878	4	• HEATSHRINK, Polyofin (5/16" DIA)
15	163021	1	• RESISTOR (120 Ohm 2 Watt Axial)
16	138044	2	• FERRULE, Blue (14 GA)
17	115401	1	• FERRULE, Red/Grey (14 GA)

1.11 Platform Control Cable - SGLE



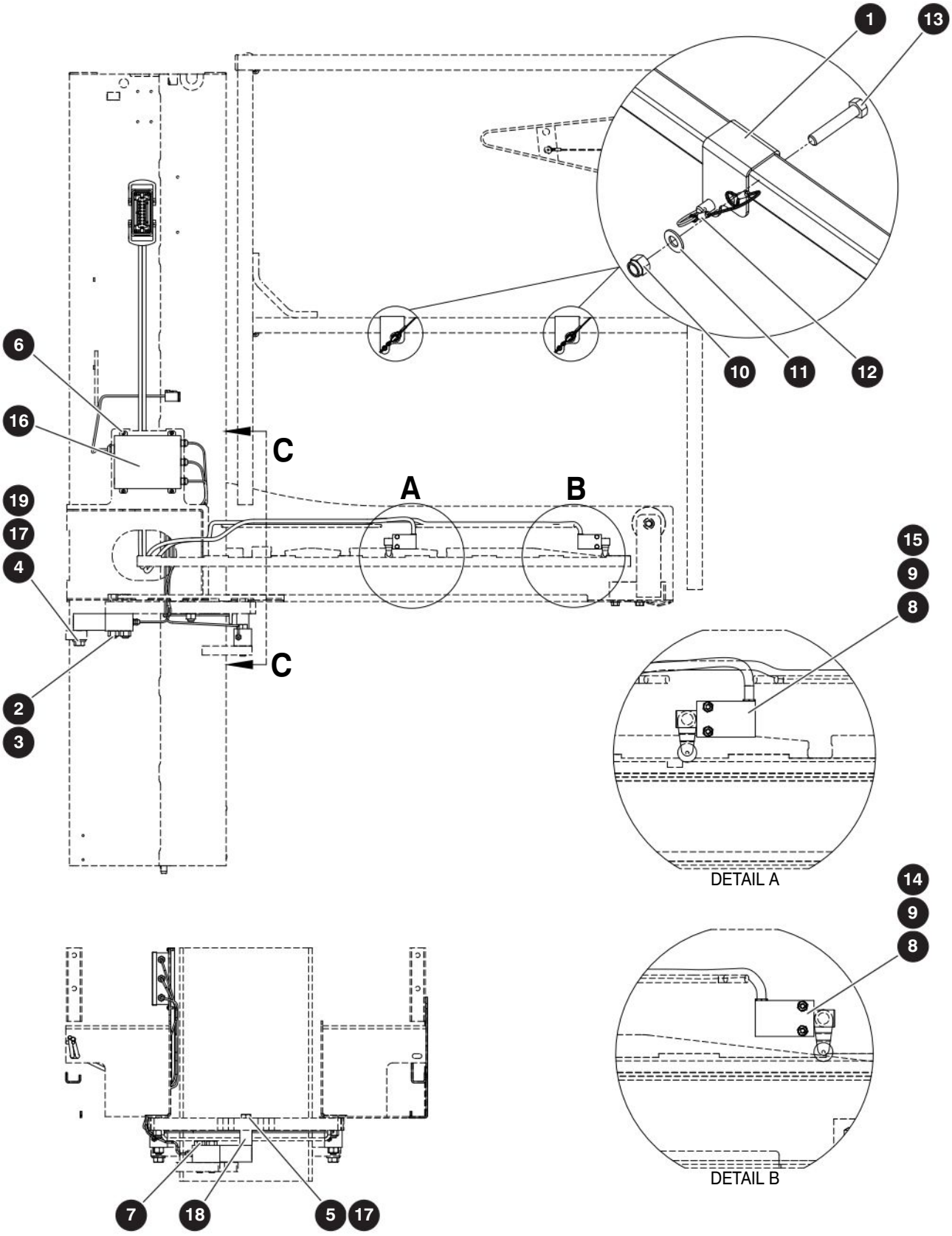
M234029AC

234029

1.11 Platform Control Cable - SGLE

Index No.	Skyjack Part No.	Qty.	Description
-	234135	1	PLATFORM CONTROL CABLE - SGLE
-	234136	1	• PLATFORM CONTROL CABLE - SGLE
1	192084	1	• • PLUG,16 Pole - Spring
2	121050	4	• • CONNECTOR, Ferrule (16GA)
3	211449	15	• • FERRULE (20GA)
4	234031	1	• • HOUSING, Hood side entry - M25
5	234032	1	• • STRAIN RELIEF (M25 x 1.5)
6	234121	103"	• • CABLE, CANBUS - 11 Conductor
7	196141	1	• • CORDGRIP, Flexible liquid tight
8	234024	1	• • CONNECTOR, 32 pin socket - MX34
9	234025	2	• • TERMINAL, Female - MX34 (20 AWG)
10	234026	11	• • TERMINAL, Female - MX34 (18 AWG)
11	119749	2	• • TERMINAL, #6 Ring - Red (22-18 AWG)
12	166889	1	• • TERMINAL, #6 Ring (10-12 AWG)
13	105568	2	• • TERMINAL, Female (10-12 AWG Nylon Yellow)
14	108878	4	• • HEATSHRINK, Polyofin (5/16" DIA)
15	163021	1	• • RESISTOR (120 Ohm 2 Watt Axial)
16	138044	2	• • FERRULE, Blue (14 GA)
17	115401	1	• • FERRULE, Red/Grey (14 GA)
18	114595	1	• • TERMINAL, Female - Red (18-22 AWG)
-	220969	1	• SGLE WIRE KIT
19	105359	1	• • TERMINAL, Blue - Female (14-16 GA Insulated)
20	102955	2	• • TERMINAL, #6 Ring - Blue (14-16 GA)
21	105360	2	• • TERMINAL, Male (14-16 GA x 1/4 Full Insulated)
22	105568	1	• • TERMINAL, Female (10-12 AWG Nylon Yellow)
23	102921	2	• • DIODE

1.12 Platform Electrical Group



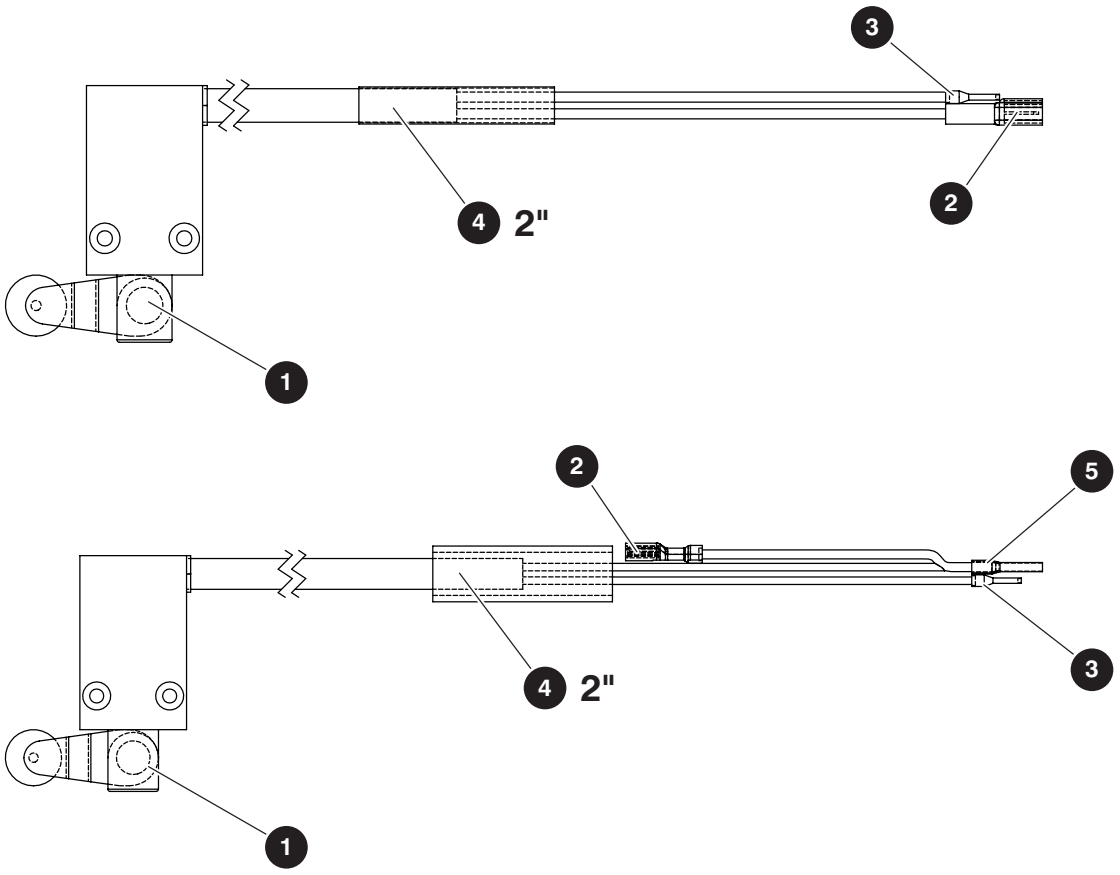
M234298AB

234298

1.12 Platform Electrical Group

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	PLATFORM ELECTRICAL GROUP
1	158209	2	• CLAMP, Railing - Control cable
2	234639	4	• BOLT, Hex head (1/2"-13 x 3-1/4" Gr. 5)
3	123856	4	• NUT, Hex (1/2"-13 Gr. 8)
4	139007	2	• BOLT, Hex head (1/2"-13 x 2" Gr. 8)
5	234644	1	• BOLT, Hex head (1/2"-13 x 3-1/2" Gr. 8)
6	204325	4	• BOLT, Round head machine (#8-32 x 3/8")
7	106447	2	• BOLT, Hex head (1/2"-13 x 2-1/4" Gr. 8)
8	103958	4	• SCREW, Round head machine (#8-32 x 3/4")
9	234728	4	• NUT, Acorn (#8-32 ZP)
10	104606	2	• NUT, Nylon lock (3/8"-16 Gr. 5)
11	103472	2	• WASHER, Flat (3/8")
12	216212	2	• PIN ASM, Quick release - Large loop
13	103872	2	• BOLT, Hex head zinc (3/8"-16 x 2-1/4" Gr. 5)
14	(Ref.)	1	• LIMIT SWITCH ASM, Service Position *(For components, refer to Section 1.13 Platform)*
15	(Ref.)	1	• LIMIT SWITCH ASM, Deck Extended *(For components, refer to Section 1.13 Platform)*
16	234253	1	• SENSOR GP ASM, VM Loadcell
17	104379	3	• WASHER, Flat (Hard (1/2")
18	234439	1	• SPACER (1" OD x 9/16" ID x 2-1/16")
19	234438	2	• SPACER (3/4" OD x 0.51" ID x 0.78")

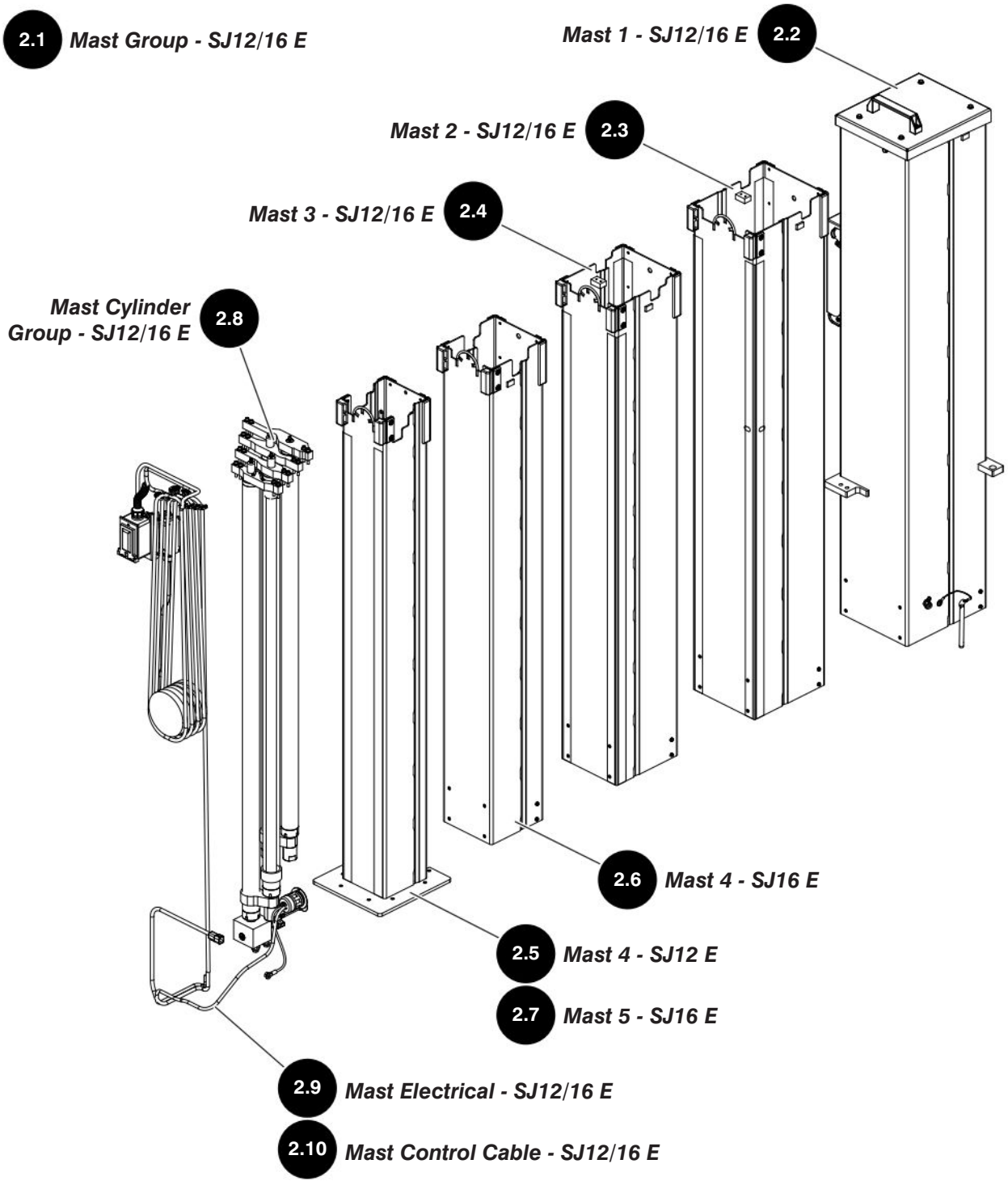
1.13 Platform Limit Switches



M234218AD, M234219AE *234218, 234219*

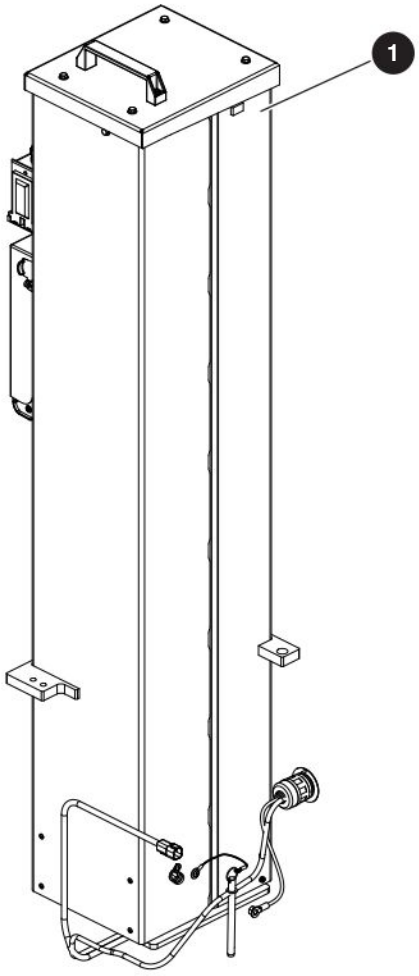
Index No.	Skyjack Part No.	Qty.	Description
A	-	1	SERVICE POSITION LIMIT SWITCH
B	-	1	DECK EXTENDED LIMIT SWITCH
1	199405	2	• LIMIT SWITCH, Level - 2M
2	114594	2	• TERMINAL, Male (18-22 AWG)
3	115401	2	• FERRULE, Red/Grey (18 GA)
4	108878	4"	• HEATSHRINK, Polyofin (5/16" Dia)
5	234286	1	• FERRULE, Twin wire (16 GA 12 mm), ***B***

Section 2 – SJ12/16 E Mast

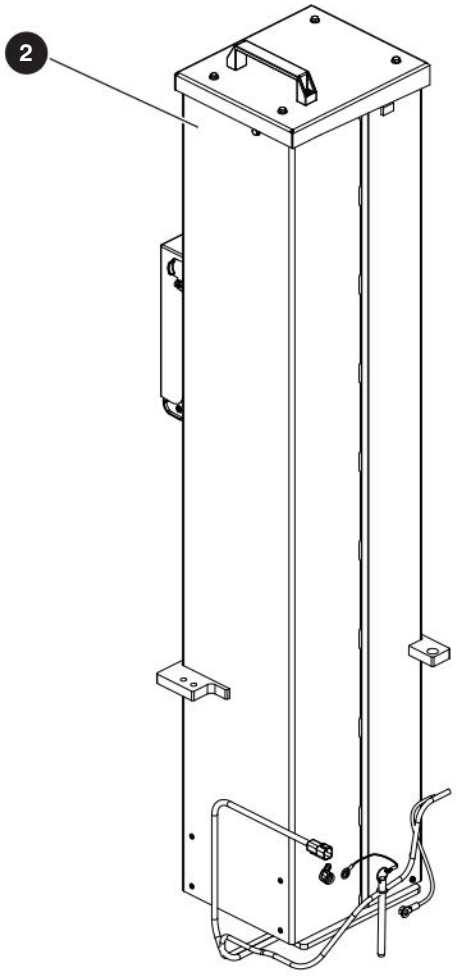


2.1 Mast Group - SJ12/16 E

ANSI/CSA



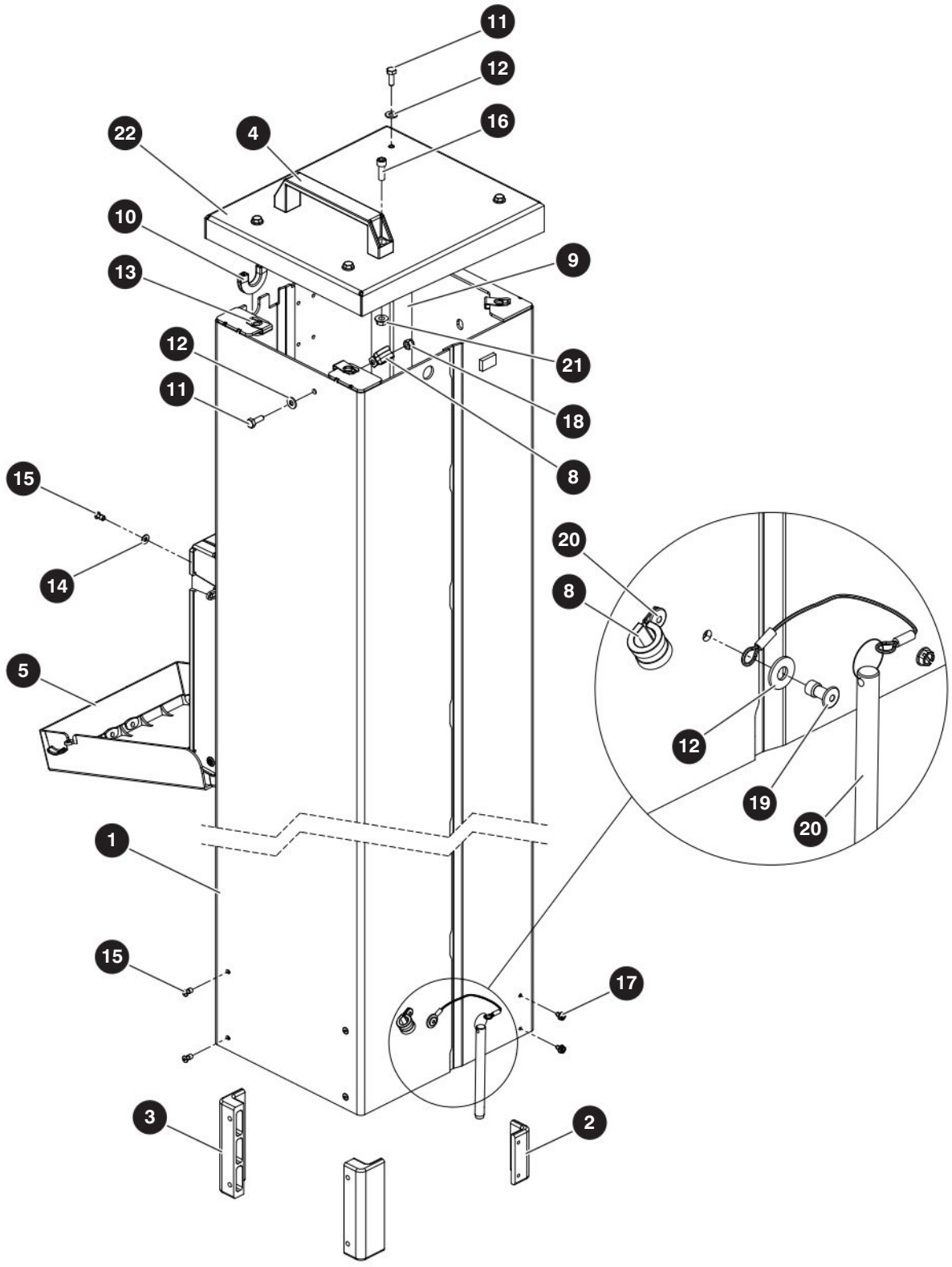
AS/CE



2.1 Mast Group - SJ12/16 E

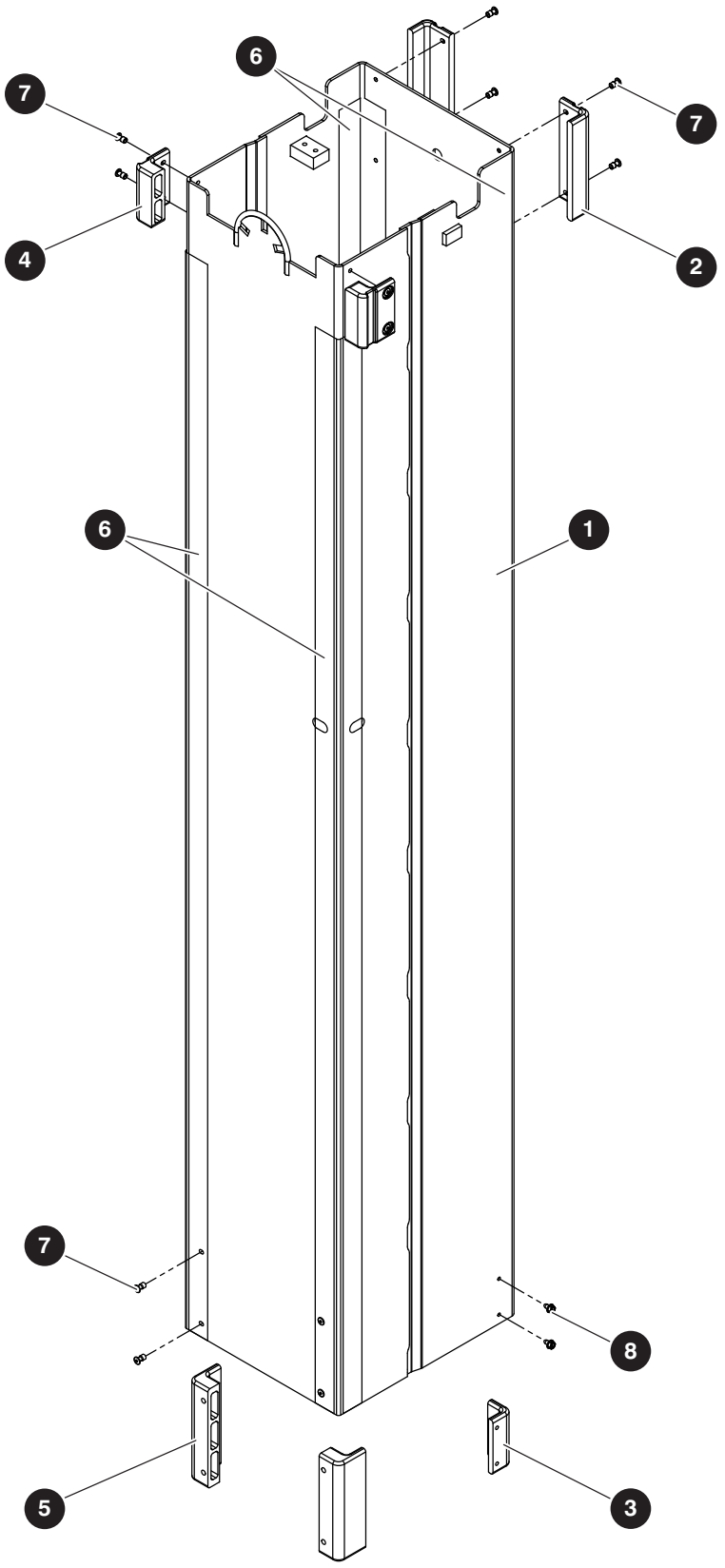
Index No.	Skyjack Part No.	Qty.	Description
1	234390	1	MAST GROUP, SJ12 E ANSI/CSA
	234400	1	MAST GROUP, SJ16 E ANSI/CSA
2	234389	1	MAST GROUP, SJ12 E CE/AS
	234399	1	MAST GROUP, SJ16 E CE/AS

2.2 Mast 1 - SJ12/16 E



Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 1, SJ12/16 E
1	234418	1	• MAST 1, SJ12/16 E
2	157763	2	• WEAR PAD, Thin & Short
3	159399	2	• WEAR PAD, Thick & Long
4	928533	1	• HANDLE, Plastic Pull
5	198789	1	• BOX, Manual
6	207981	1	• BAG, Resealable (12" x 9" x 0.002") (Not Shown)
7	114710	1	• RING, Key - Skyjack (Not Shown)
8	102929	2	• CLIP, Single (G10)
9	158702	AR	• LUBRICANT, Multi-use
10	117398	2.5"	• PROTECTIVE TRIM (3/16"-1/4")
11	103856	5	• BOLT, Hex head zinc (1/4"-20 x 3/4" Gr. 5)
12	103995	5	• WASHER, Flat (1/4")
13	149496	4	• NUT, Speed clip (1/4"-20 x 1/2" OL)
14	104694	4	• WASHER, Flat (#10)
15	116161	8	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
16	157822	2	• SCREW, Socket Head Cap (5/16"-18 x 7/8")
17	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")
18	115649	1	• NUT, Nylon Lock (1/4"-20 Gr. 5)
19	157173	2	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
20	218802	1	• PIN, Quick release (1/2" x 5-1/12" with 8" lanyard)
21	234632	2	• NUT, Hex serrated flange (5/16"-18)
22	234075	1	• COVER, Mast

2.3 Mast 2 - SJ12/16 E

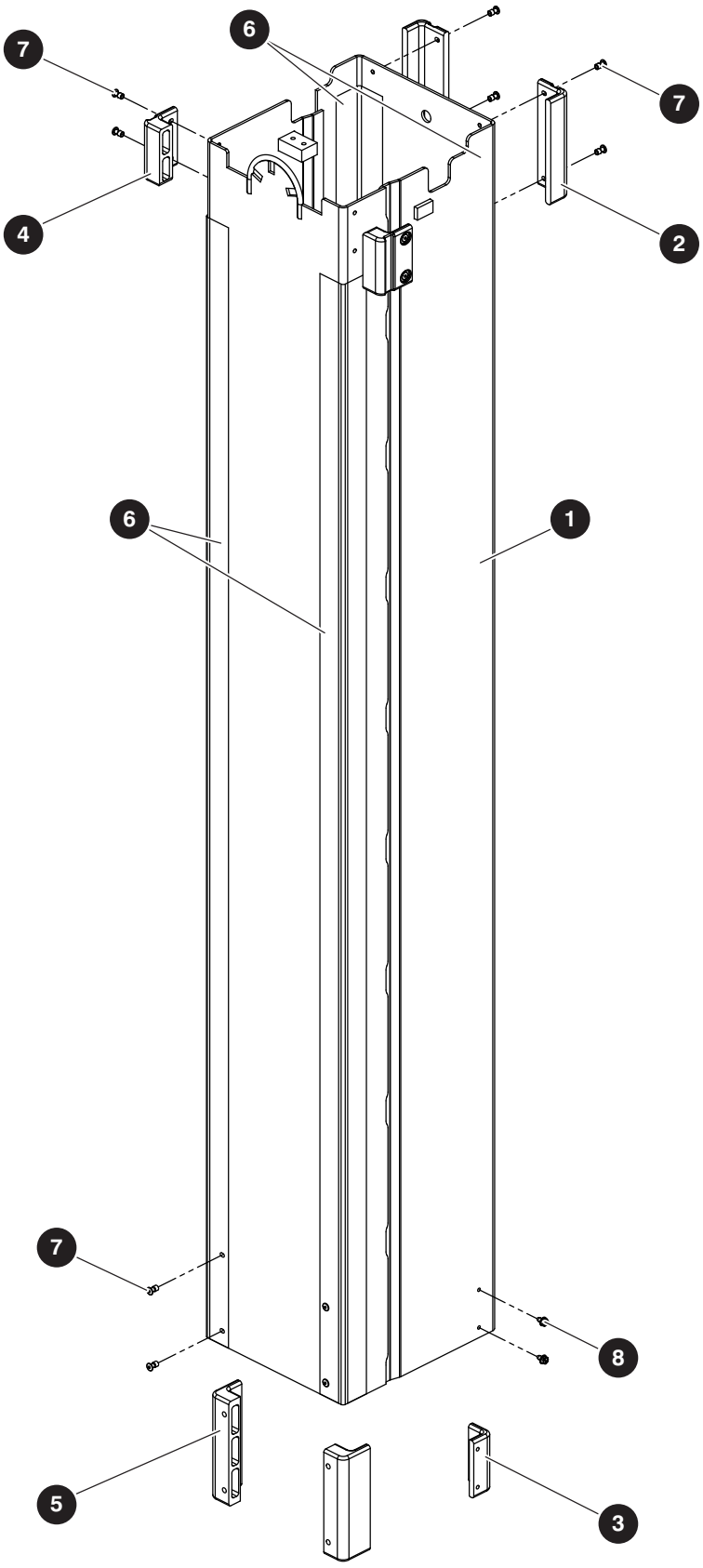


M234404AC

234404

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 2, SJ12/16 E
1	234415	1	• MAST 2, SJ12/16 E
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	12	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

2.4 Mast 3 - SJ12/16 E



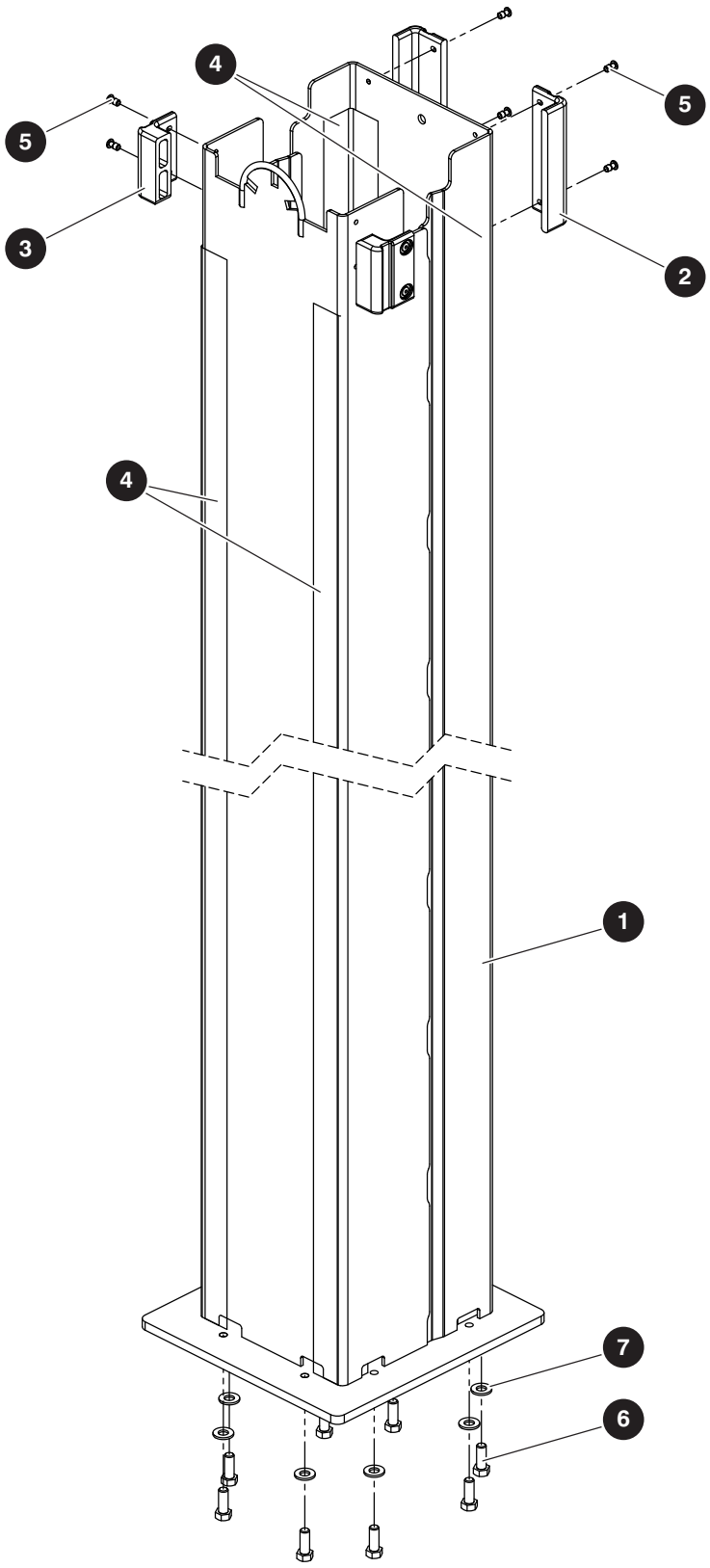
M234403AC

234403

2.4 Mast 3 - SJ12/16 E

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 3, SJ12/16 E
1	234412	1	• MAST 3, SJ12/16 E
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	12	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

2.5 Mast 4 - SJ12 E



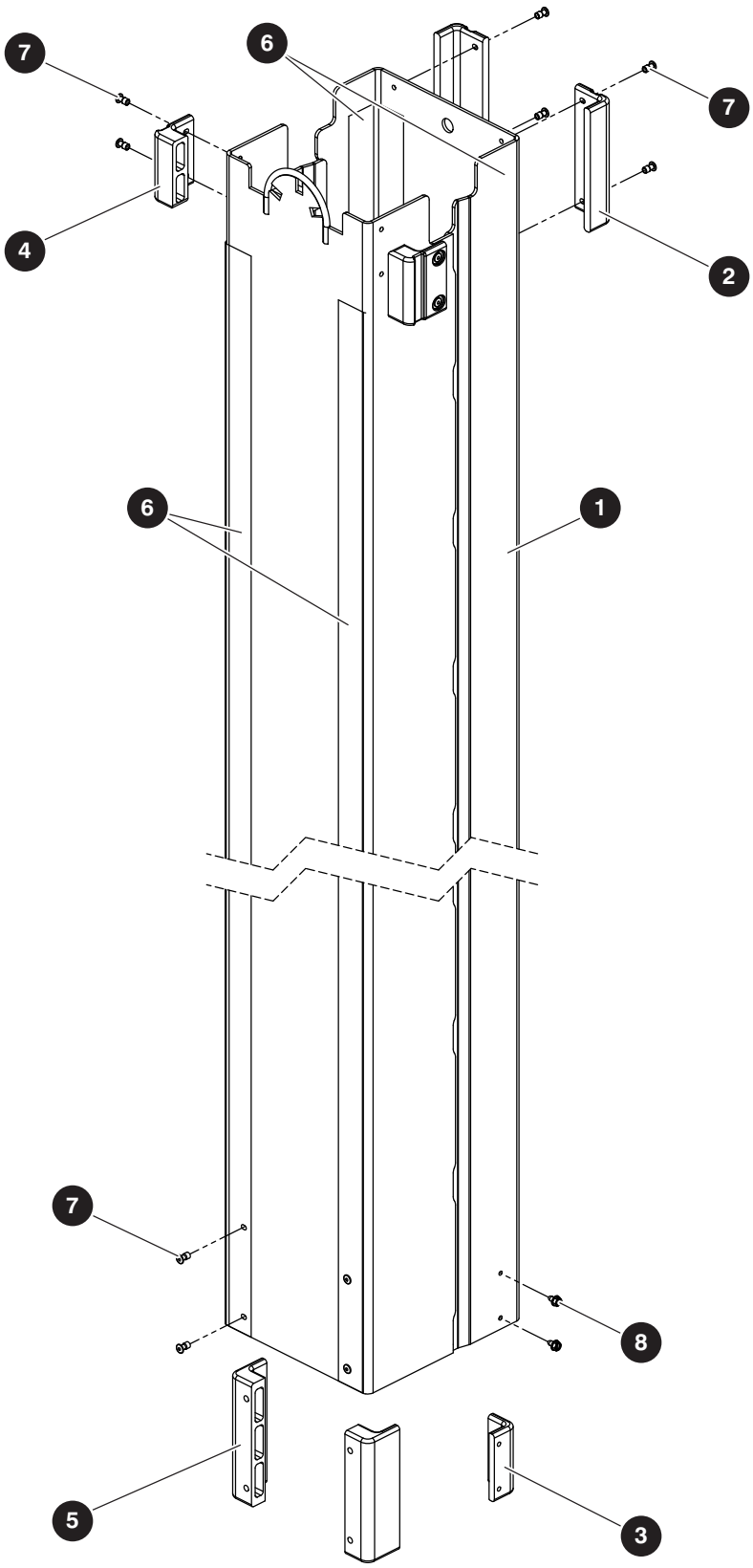
M234422AC

234422

2.5 Mast 4 - SJ12 E

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 4, SJ12 E
1	234423	1	• MAST 4, SJ12 E
2	159398	2	• WEAR PAD, Thin & long
3	158087	2	• WEAR PAD, Thick & short
4	158702	AR	• LUBRICANT, Multi-use
5	116161	8	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
6	207298	8	• BOLT, Hex head (3/8"-16 x 1" Gr. 8)
7	125959	8	• WASHER, Flat (3/8" hard)

2.6 Mast 4 - SJ16 E



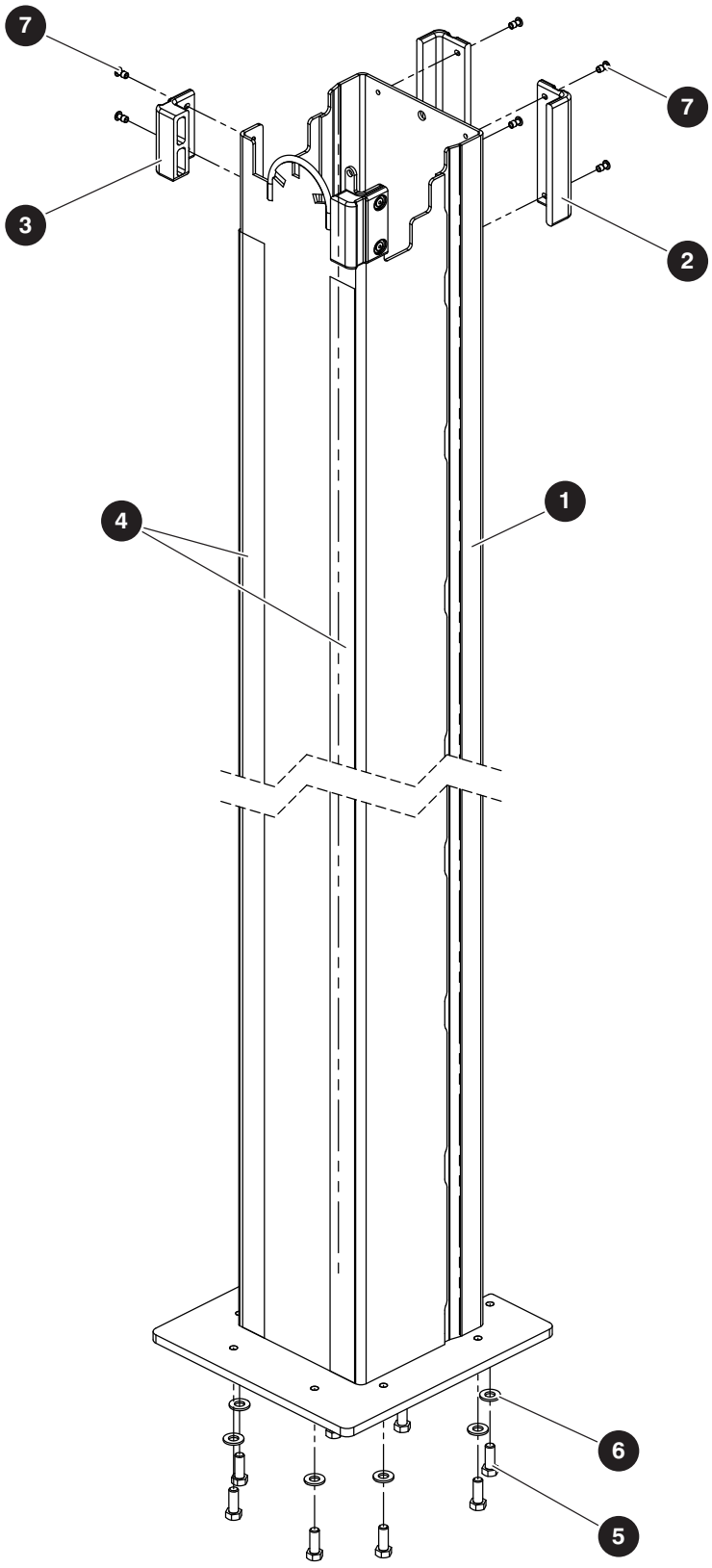
M234402AC

234402

2.6 Mast 4 - SJ16 E

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 4, SJ16 E
1	234409	1	• MAST 4, SJ16 E
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	12	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

2.7 Mast 5 - SJ16 E



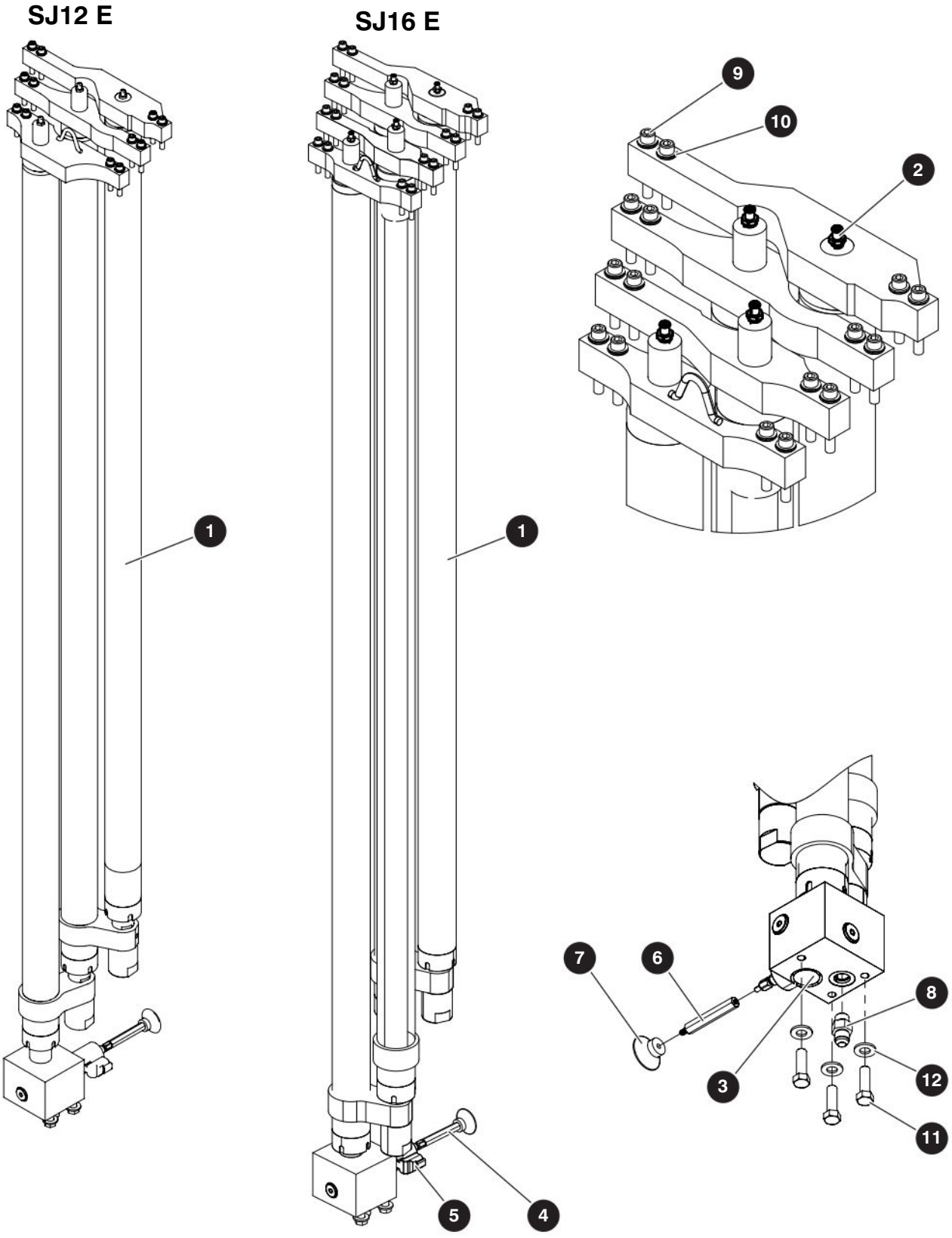
M234401AC

234401

2.7 Mast 5 - SJ16 E

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 5, SJ16 E
1	234406	1	• MAST 5, SJ16 E
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158702	AR	• LUBRICANT, Multi-use
5	207298	8	• BOLT, Hex Head (3/8"-16 x 1" Gr. 8)
6	125959	8	• WASHER, Flat (3/8" hard)
7	116161	8	• POP RIVET, SS SM FLG DM HD O-END (3/16" X 0.565")

2.8 Mast Cylinder Group - SJ12/16 E



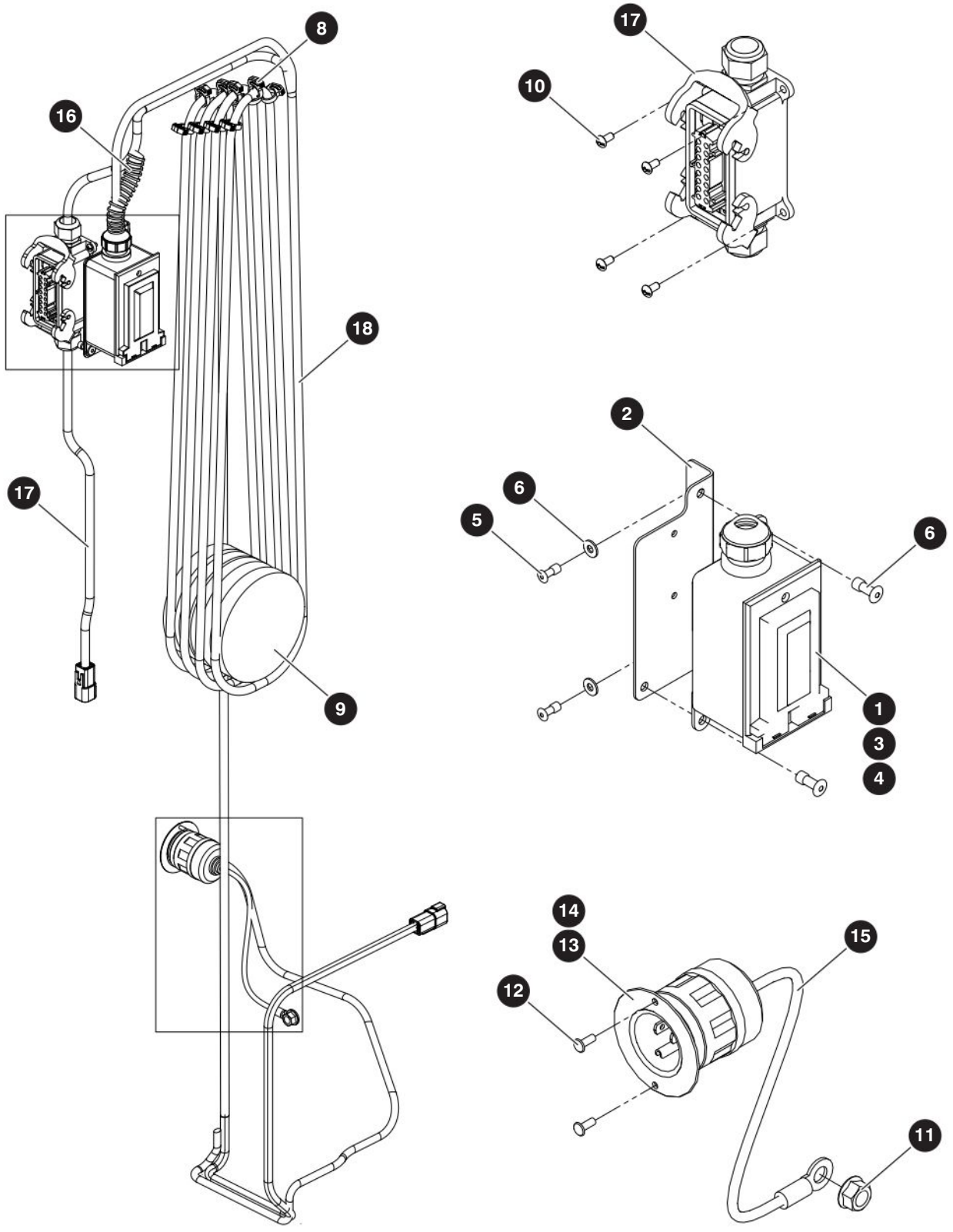
M69530AA

234391, 234430

2.8 Mast Cylinder Group - SJ12/16 E

Index No.	Skyjack Part No.	Qty.	Description
A	-	1	MAST CYLINDER, SJ12 E
B	-	1	MAST CYLINDER, SJ16 E
1	234392	1	• CYLINDER, ***A***
	234429	1	• CYLINDER, ***B***
2	234653	AR	• • BLEEDER SCREW, Lift cylinder
3	234654	1	• • CHECK VALVE, Lift cylinder
4	151696	1	• VALVE, Emergency lowering
5	151683	1	• COIL, 24V DT with diode
6	234261	1	• HEX STANDOFF (3/8" X 2-1/2" LG M/F)
7	300322	1	• PULL KNOB, Hydraforce
8	103069	1	• FITTING, Straight (06 JICM - 06 ORBM)
9	240013	12	• BOLT, Socket head cap screw (1/4"-20 x 1-3/4" Zinc-plated)
10	234734	12	• WASHER, Wedge lock zinc (9/32" x 17/32")
11	101297	3	• BOLT, Hex head zinc (3/8"-16 x 1-1/4" Gr. 5)
12	125959	3	• WASHER, Flat hard (3/8")
K1	234652	AR	SEAL KIT, Lift cylinder (Not shown) (Note: Seal kit is for one cylinder assembly only)

2.9 Mast Electrical - SJ12/16 E

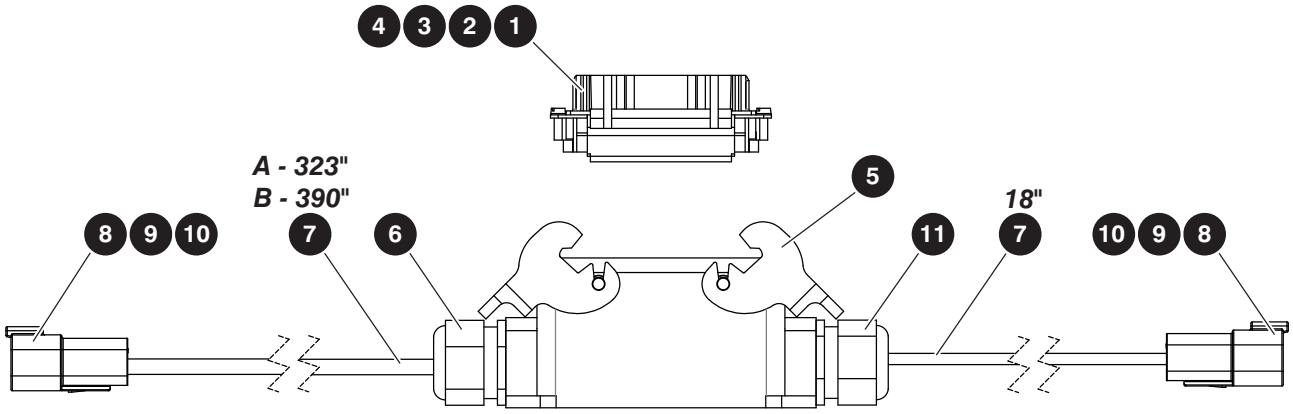


M234300AA

234301, 234309, 234300, 234308

Index No.	Skyjack Part No.	Qty.	Description
A	-	1	MAST ELECTRICAL GROUP **(SJ12 E ANSI/CSA)**
B	-	1	MAST ELECTRICAL GROUP **(SJ12 E CE & AS)**
C	-	1	MAST ELECTRICAL GROUP **(SJ16 E ANSI/CSA)**
D	-	1	MAST ELECTRICAL GROUP **(SJ16 E CE & AS)**
1	211238	1	• OUTLET BOX, 100V, ***A, C***
2	158620	1	• BRACKET, Mast AC
3	166943	1	• COVER, GFI weatherproof, ***A, C***
4	109698	1	• RECEPTABLE, GFCI, ***A, C***
5	157759	2	• POP RIVET (3/16" X 0.565" STL SM FLG DM HD O-END)
6	134140	2	• POP RIVET (1/4" x 0.740" AL SM FLG DM HD O-END), ***A, C***
7	104694	2	• WASHER, Flat (#10)
8	238626	9	• CLAMP, Hose (Snapper 12)
9	234128	3	• ROLLER, Weight
10	115545	4	• SCREW, Round head machine (#10-32 x 3/8")
11	112601	1	• NUT, Hex flange lock (3/8"-16)
12	162754	2	• RIVET (5/32"-5/16" Dia AL-AL), ***A, C***
13	105271	1	• PLUG, Male - Recessed (15 A, 125 V), ***A, C***
14	113227	1	• SEAL, Tite -110V Cover, ***A, C***
15	156845	1	• WIRE ASM, Ground
16	170758	4	• SPLIT TUBE, UV-resistant (5/8" x 100'), ***A, C***
-	234305	1	• MAST CABLE ASSEMBLY, ***A***
	234311	1	• MAST CABLE ASSEMBLY, ***B***
	234302	1	• MAST CABLE ASSEMBLY, ***C***
	234310	1	• MAST CABLE ASSEMBLY, ***D***
17	(Ref.)	1	• • MAST CONTROL CABLE *(For components, refer to Section 2.10 Mast)*
18	234307	1	• • CABTIRE (14/3), ***A***
	234313	1	• • CABTIRE (14/3), ***B***
	234304	1	• • CABTIRE (14/3), ***C***
	234312	1	• • CABTIRE (14/3), ***D***

2.10 Mast Control Cable - SJ12/16 E

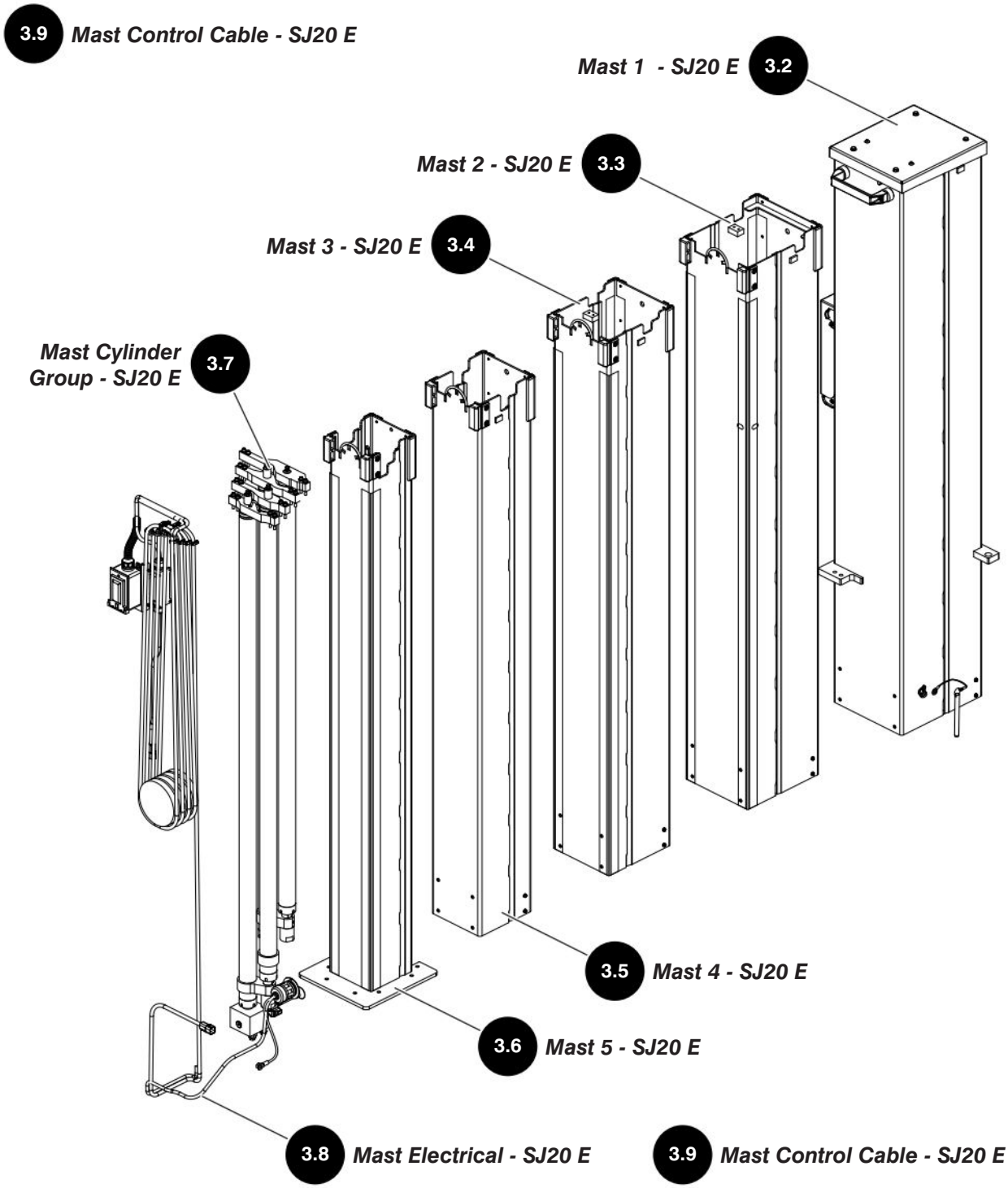


M234303AA

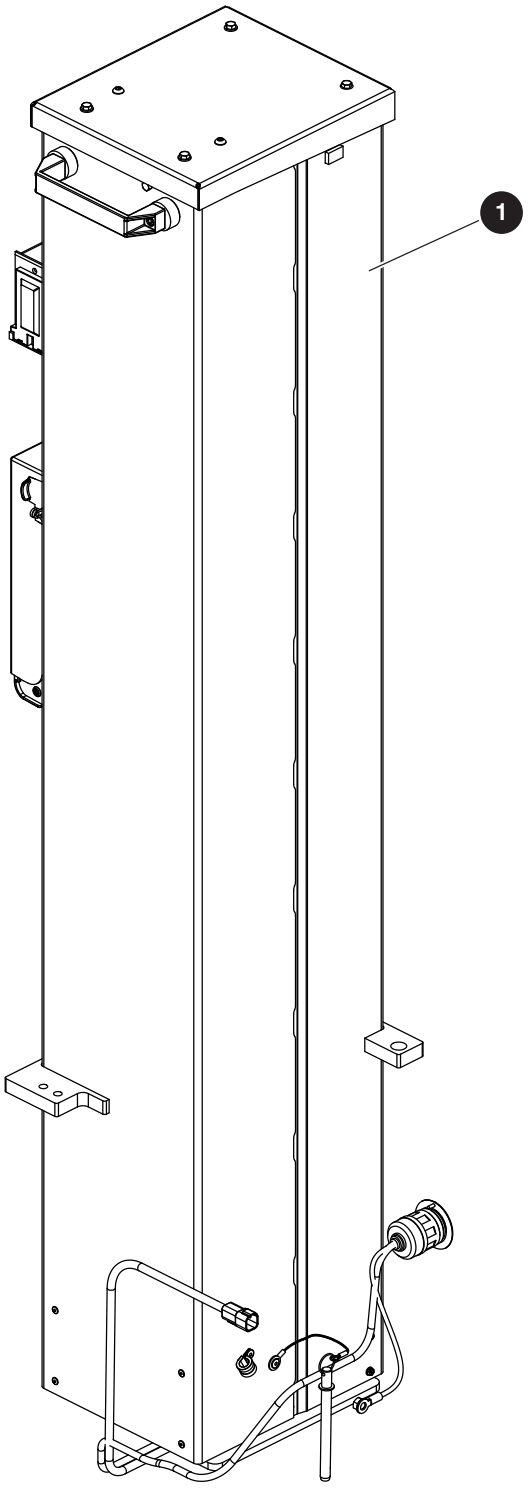
234306, 234303

Index No.	Skyjack Part No.	Qty.	Description
A	-	1	MAST CONTROL CABLE **(SJ12 E)**
B	-	1	MAST CONTROL CABLE **(SJ16 E)**
1	192083	1	• SOCKET, Spring - 16 pole
2	115401	6	• FERRULE, Red/Grey (14GA)
3	121050	4	• CONNECTOR, Ferrule (16GA)
4	211449	4	• FERRULE (20GA)
5	234030	1	• HOUSING, CLSD double entry double lock (M25)
6	234032	1	• STRAIN RELIEF (M25 x 1.5)
7	234023	361"	• CABLE, Canbus - 6 condutor, ***A***
	234023	428""	• CABLE, Canbus - 6 condutor, **B**
8	204108	2	• CONNECTOR, Receptacle - 6 pin
9	204107	2	• CONNECTOR, Receptacle wedge - 6 pin
10	117590	12	• CONNECTOR, Contact pin - 16-18
11	240012	1	• STRAIN RELIEF, M25 x 1.5 (13-18 MM)

Section 3 – SJ20 E Mast (ANSI/CSA Only)



3.1 Mast Group - SJ20 E



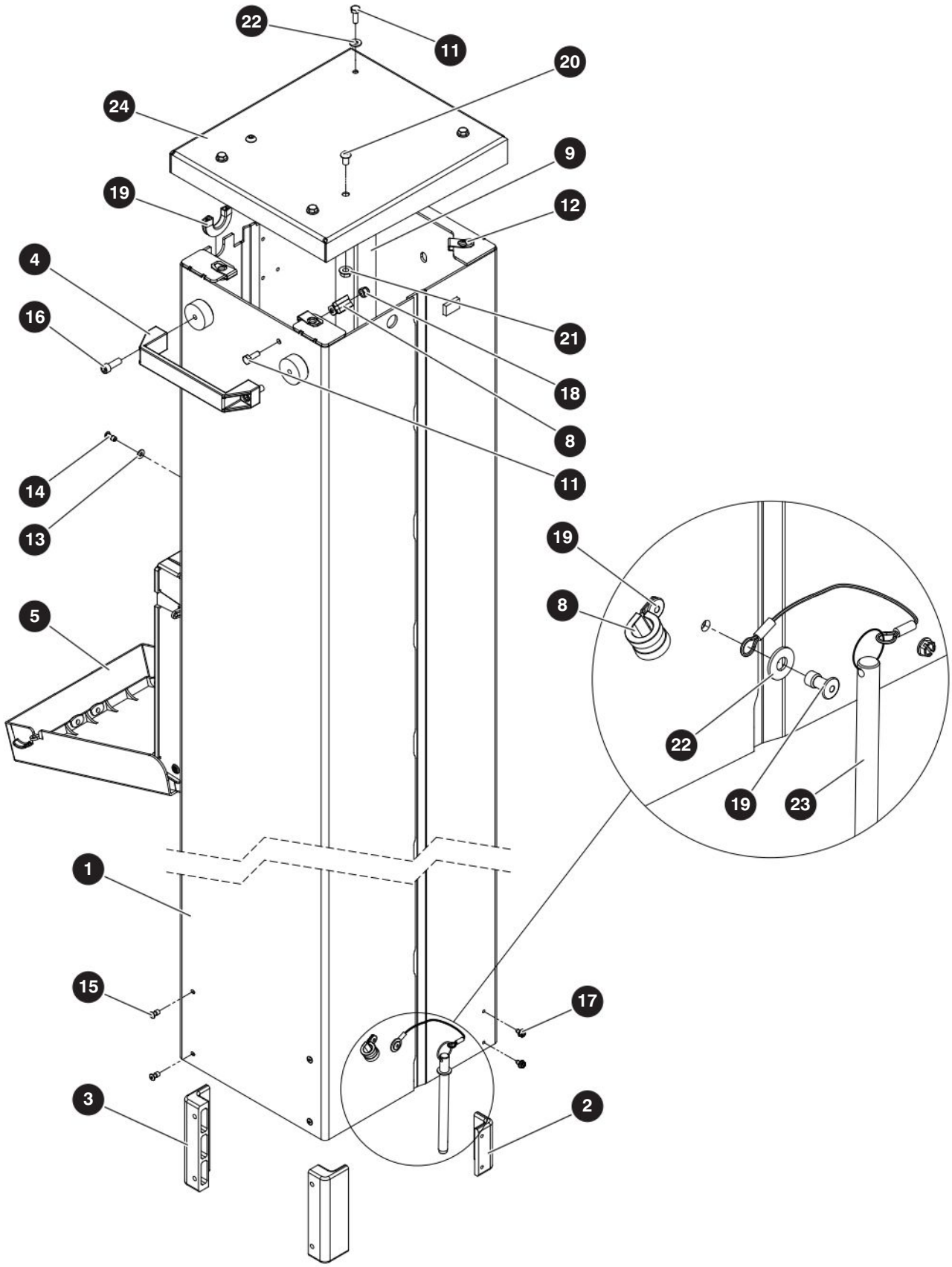
M69554AA

234104

3.1 Mast Group - SJ20 E

Index No.	Skyjack Part No.	Qty.	Description
1	234321	1	MAST GROUP, SJ20 E

3.2 Mast 1 - SJ20 E

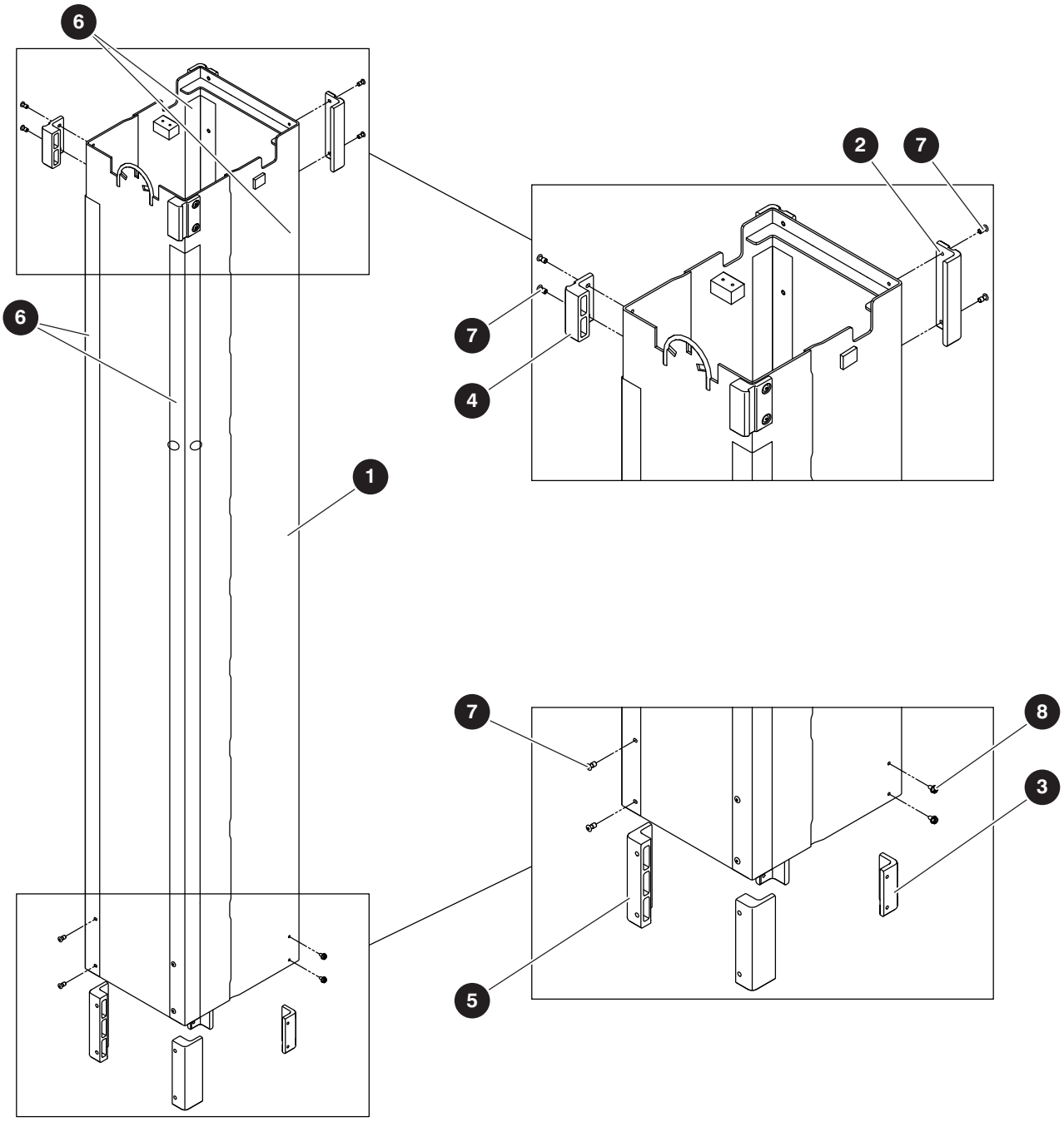


M234096AE

234096

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 1
1	234321	1	• MAST 1
2	157763	2	• WEAR PAD, Thin & short
3	159399	2	• WEAR PAD, Thick & long
4	928533	1	• HANDLE, Platic pull
5	198789	1	• BOX, Manual
6	207981	1	• BAG, Resealable (12" x 9" x 0.002") (Not Shown)
7	114710	1	• RING, Key - Skyjack
8	102929	1	• CLIP, Single (G10)
9	158702	AR	• LUBRICANT, Multi-use
10	117398	2.5"	• PROTECTIVE TRIM (3/16"-1/4")
11	103856	1	• BOLT, Hex head zinc (1/4"-20 x 3/4" Gr. 5)
12	149496	4	• NUT, Speed clip (1/4"-20 x 1/2" OL)
13	104694	4	• WASHER, Flat (#10)
14	157759	4	• POP RIVET, STL SM FLG DM HD O-END (3/16" x 0.565")
15	116161	4	• RIVET, Pop (3/16" x 0.565" SS SM FLG DM HD O-END)
16	157822	2	• SCREW, Socket Head Cap (5/16"-18 x 7/8")
17	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")
18	115649	1	• NUT, Nylon Lock (1/4"-20 Gr. 5)
19	157173	2	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
20	103948	2	• BOLT, Button-head cap screw (5/16"-18 x 1/2")
21	234642	2	• POP RIVET, SS SM DM HD O-END (3/16" X 0.690")
22	103995	5	• WASHER, Flat (1/4")
23	218802	1	• PIN, Quick release (1/2" x 5-1/12" with 8" lanyard)
24	234075	1	• COVER, Mast

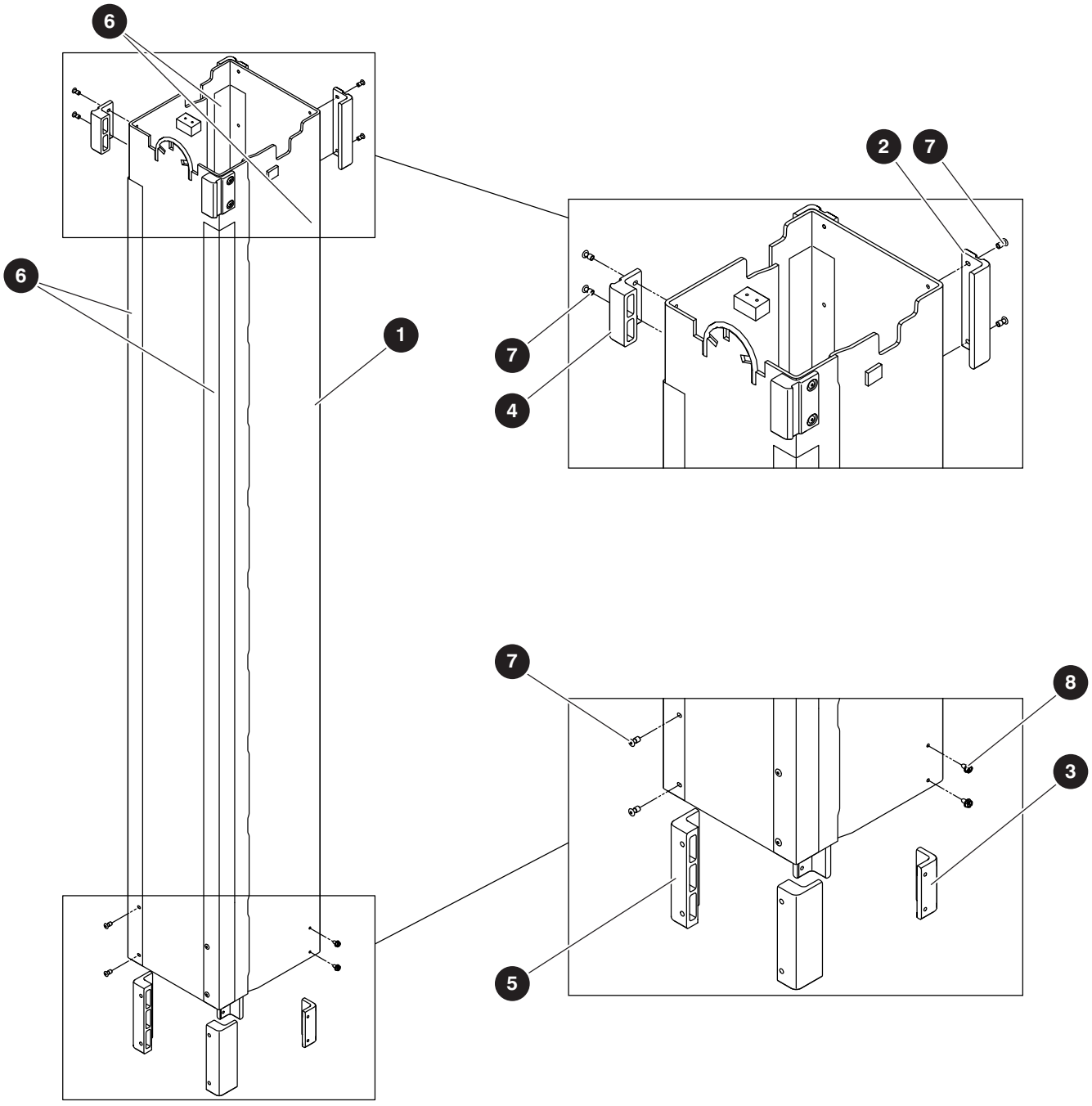
3.3 Mast 2 - SJ20 E



3.3 Mast 2 - SJ20 E

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 2
1	234013	1	• MAST 2
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	12	• POP RIVET, SS SM FLG DM HD O-END (3/16" X 0.565")
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

3.4 Mast 3 - SJ20 E

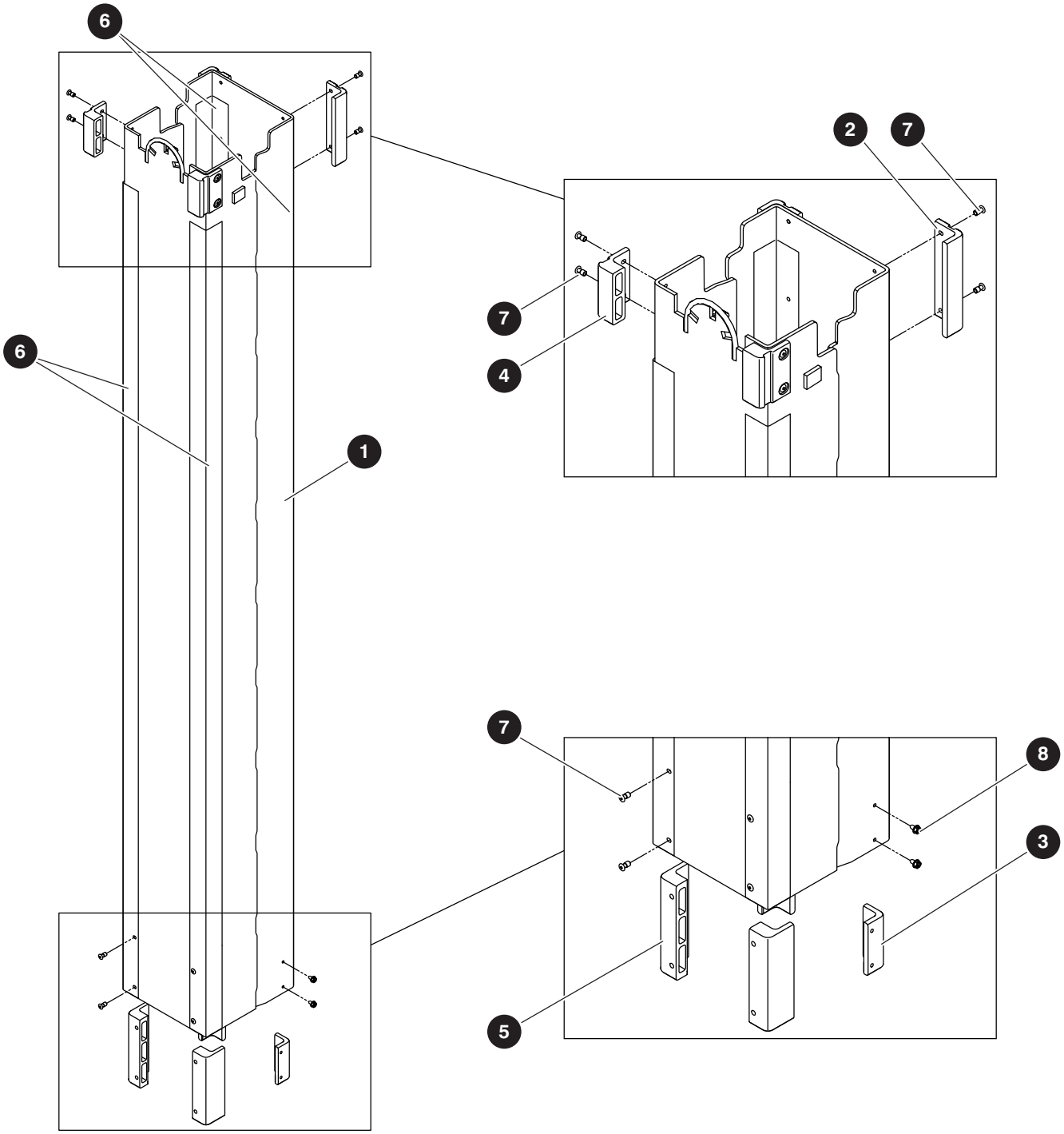


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234094

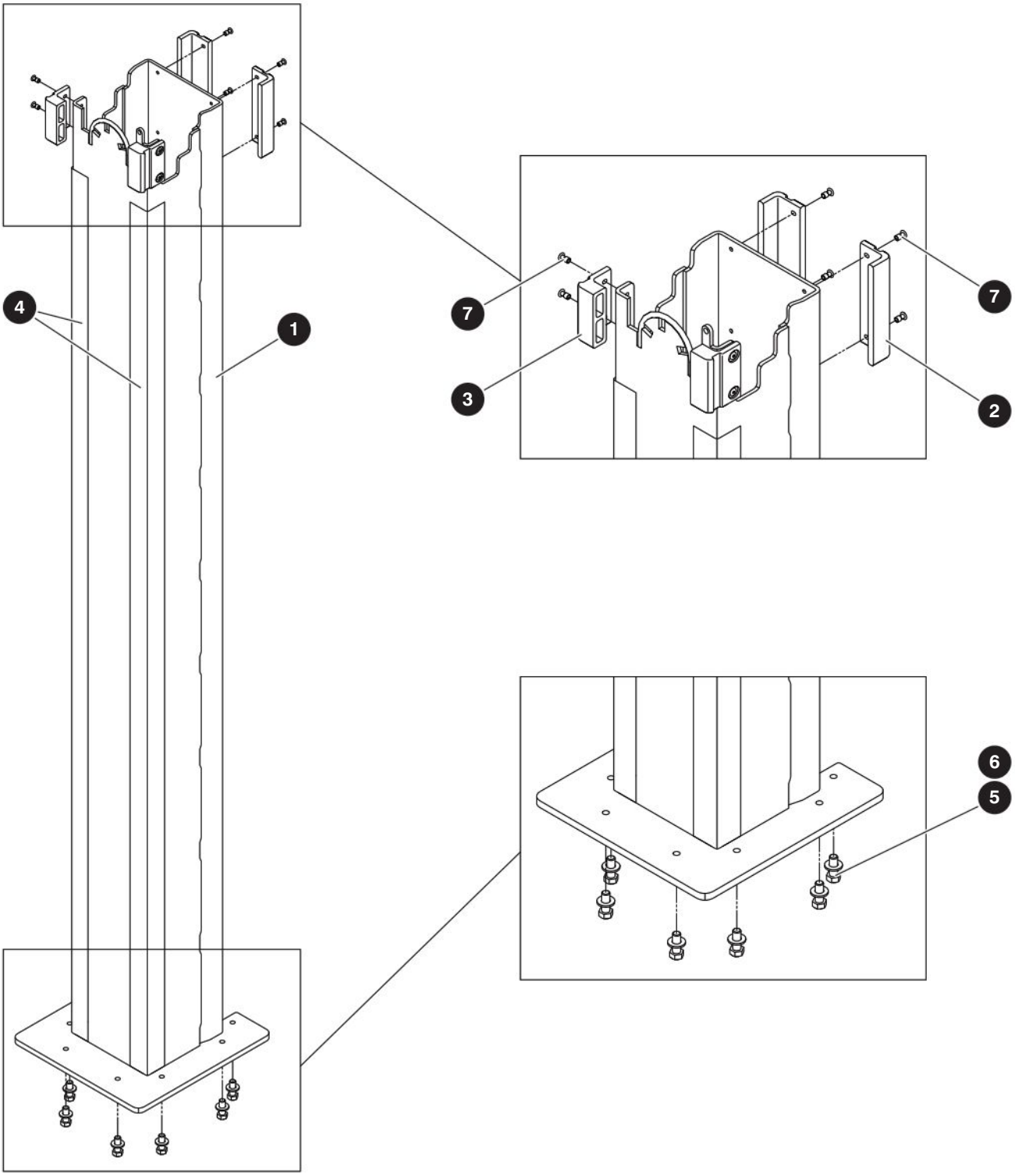
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 3
1	234016	1	• MAST 3
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	12	• POP RIVET, SS SM FLG DM HD O-END (3/16" X 0.565")
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

3.5 Mast 4 - SJ20 E



Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 4
1	234019	1	• MAST 4
2	159398	2	• WEAR PAD, Thin & long
3	157763	2	• WEAR PAD, Thin & short
4	158087	2	• WEAR PAD, Thick & short
5	159399	2	• WEAR PAD, Thick & long
6	158702	AR	• LUBRICANT, Multi-use
7	116161	8	• POP RIVET, SS SM FLG DM HD O-END (3/16" X 0.565")
8	158317	4	• SCREW, Thread rolling (#10-32 x 3/8")

3.6 Mast 5 - SJ20 E

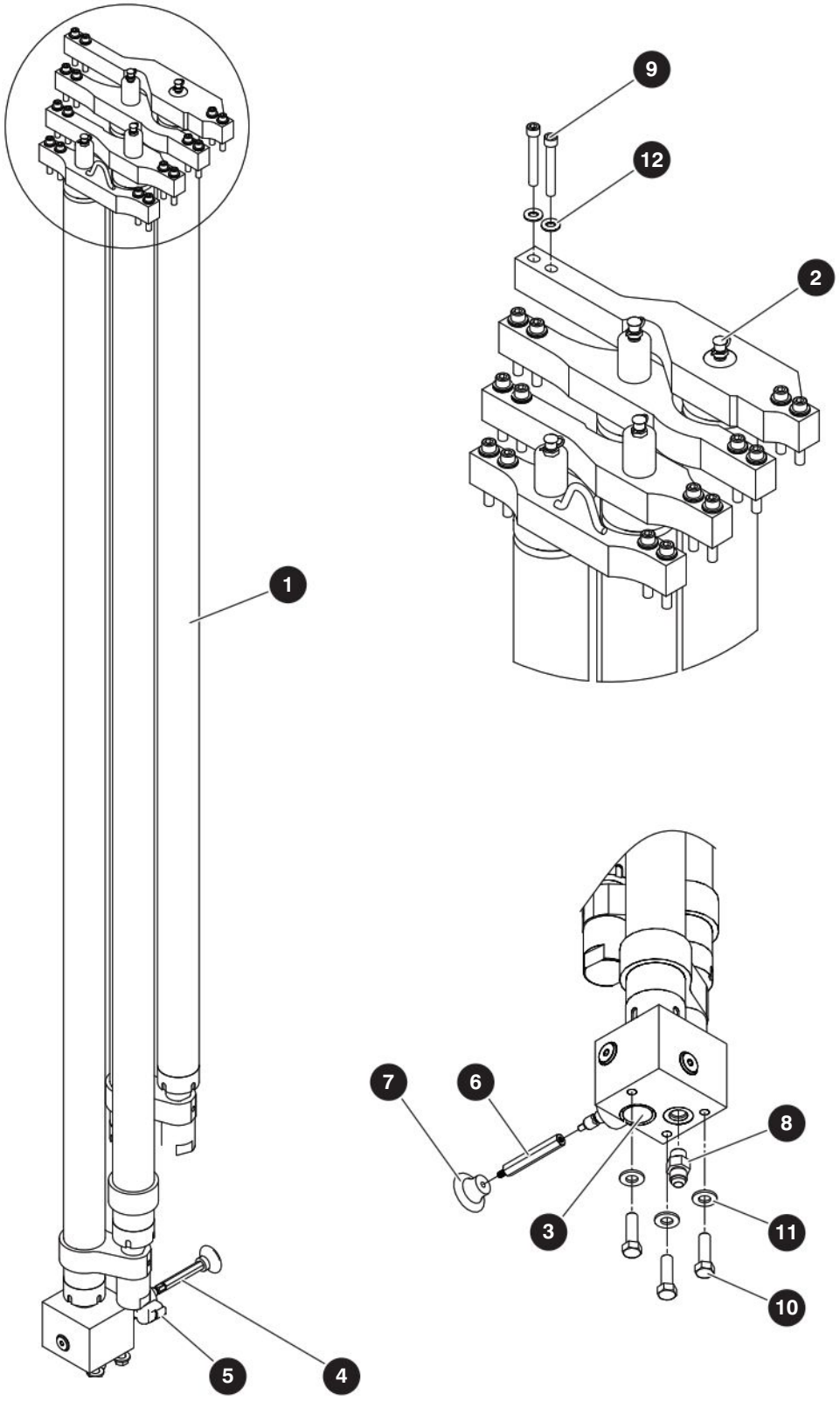


M234092AD

234092

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST 5
1	234022	1	• MAST 5
2	234168	2	• WEAR PAD, Thin & long
3	234170	2	• WEAR PAD, Thick & short
4	158702	AR	• LUBRICANT, Multi-use
5	207298	8	• BOLT, Hex Head (3/8"-16 x 1" Gr. 8)
6	125959	8	• WASHER, Flat (3/8" hard)
7	116161	8	• POP RIVET, SS SM FLG DM HD O-END (3/16" X 0.565")

3.7 Mast Cylinder Group - SJ20 E



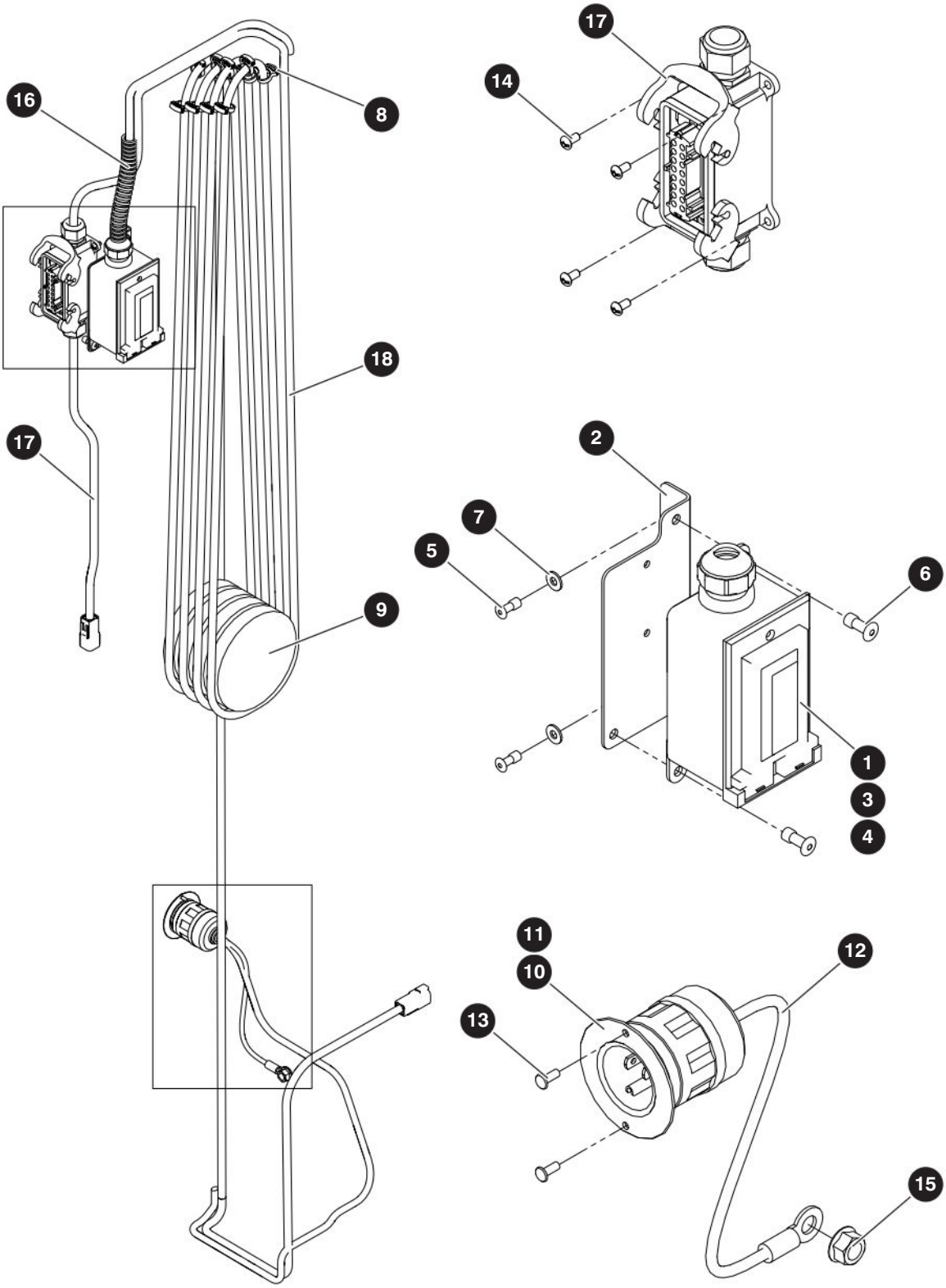
M234097AH

234097

3.7 Mast Cylinder Group - SJ20 E

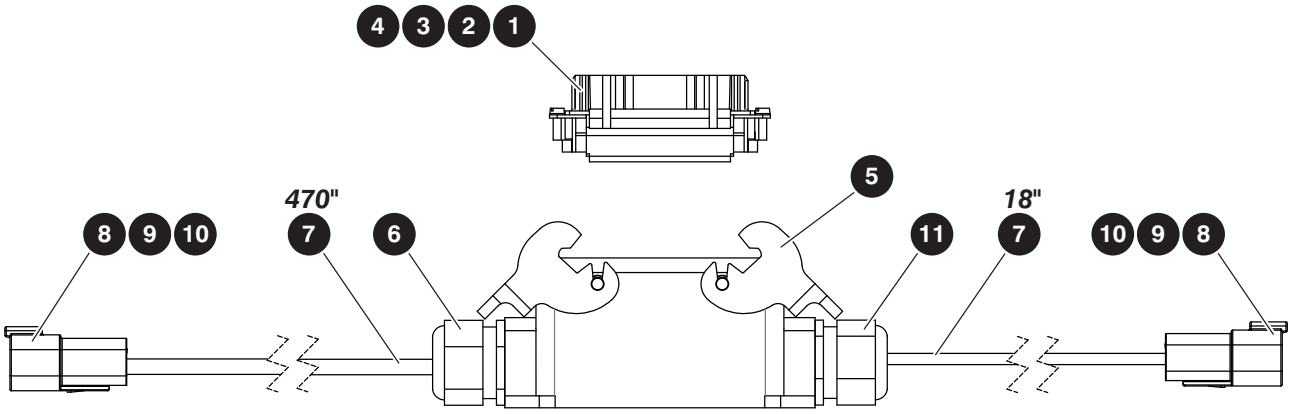
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST CYLINDER
1	234324	1	• CYLINDER, Multistage with cushion
2	234653	4	• • BLEEDER SCREW, Lift cylinder
3	234654	1	• • CHECK VALVE, Lift cylinder
4	151696	1	• VALVE, Emergency lowering
5	151683	1	• COIL, 24 V DT with diode
6	234261	1	• HEX STANDOFF (3/8" X 2-1/2" LG M/F)
7	300322	1	• PULL KNOB, Hydraforce
8	103069	1	• FITTING, Straight (06 JICM - 06 ORBM)
9	240013	16	• BOLT, Socket head cap screw (1/4"-20 x 1-3/4" Zinc-plated)
10	101297	3	• BOLT, Hex head zinc (3/8"-16 x 1-1/4" Gr. 5)
11	125959	3	• WASHER, Flat hard (3/8")
12	234734	16	• WASHER, Wedge lock zinc (9/32" x 17/32")
K1	234652	1	SEAL KIT, Lift Cylinder - VME (Not shown) (Note: Seal kit is for one cylinder assembly only)

3.8 Mast Electrical - SJ20 E



Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST ELECTRICAL GROUP
1	211238	1	• OUTLET BOX, 110V modification
2	158620	1	• BRACKET, Mast AC
3	166943	1	• COVER, GFI weatherproof
4	109698	1	• RECEPTABLE, GFCI
5	157759	2	• POP RIVET (3/16" X 0.565" STL SM FLG DM HD O-END)
6	134140	2	• POP RIVET (1/4" x 0.740" AL SM FLG DM HD O-END)
7	104694	2	• WASHER, Flat (#10)
8	238626	12	• CLAMP, Hose - snapper 12
9	234128	4	• ROLLER, Weight
10	105271	1	• PLUG, Male - Recessed (15 A, 125 V)
11	113227	1	• SEAL, Tite -110V Cover
12	156845	1	• WIRE ASM, Ground
13	162754	2	• RIVET (5/32"-5/16" Dia AL-AL)
14	115545	4	• SCREW, Round head machine (#10-32 x 3/8")
15	112601	1	• NUT, Hex flange lock (3/8"-16)
16	170758	6"	• SPLIT TUBE, UV-resistant (5/8" x 100')
-	234252	1	• MAST CABLE ASSEMBLY
17	(Ref.)	1	• • MAST CONTROL CABLE *(For components, refer to Section 3.9 Mast)*
18	234251	1	• • CABTIRE (14/3)

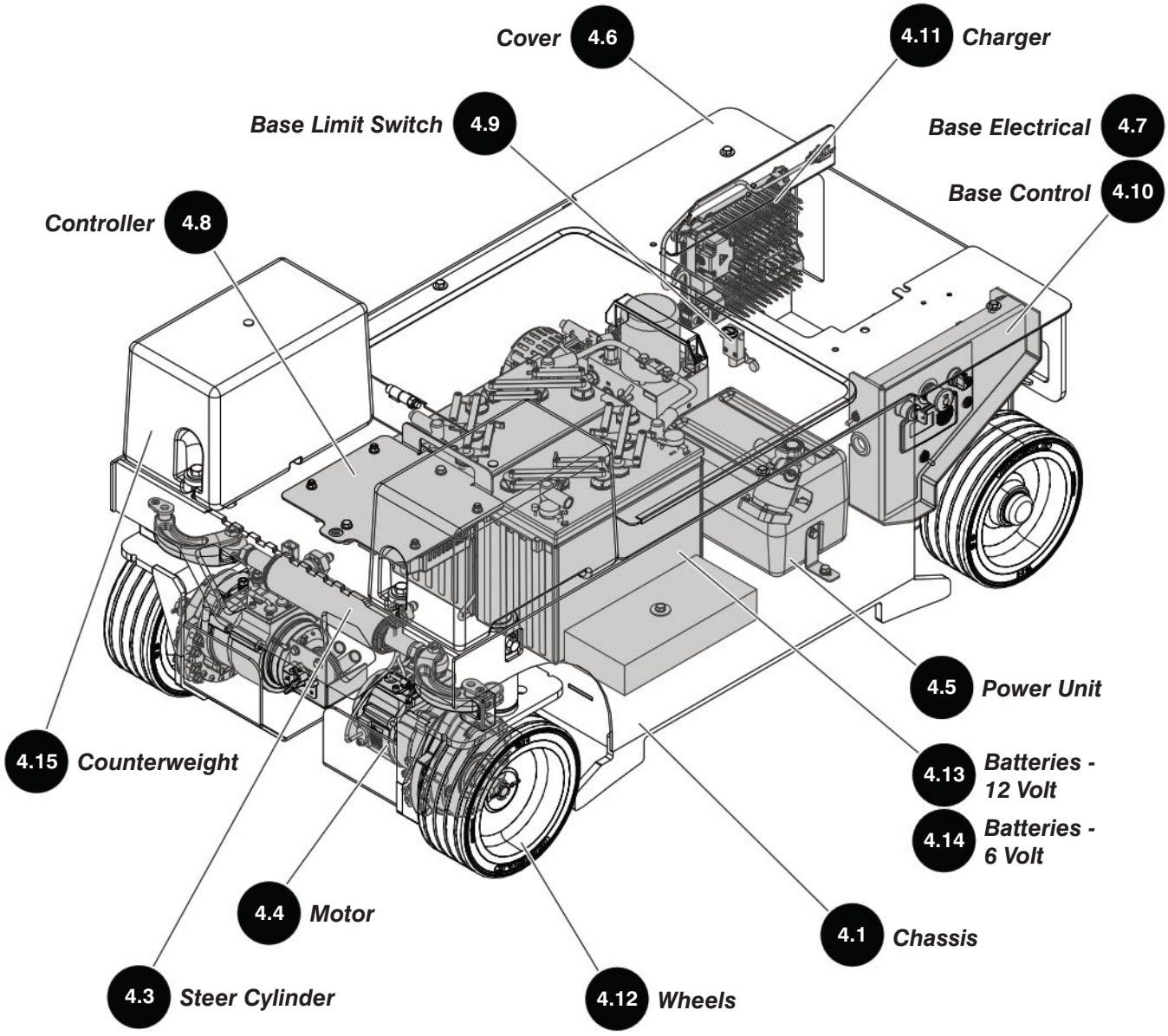
3.9 Mast Control Cable - SJ20 E



M234109AC 234109

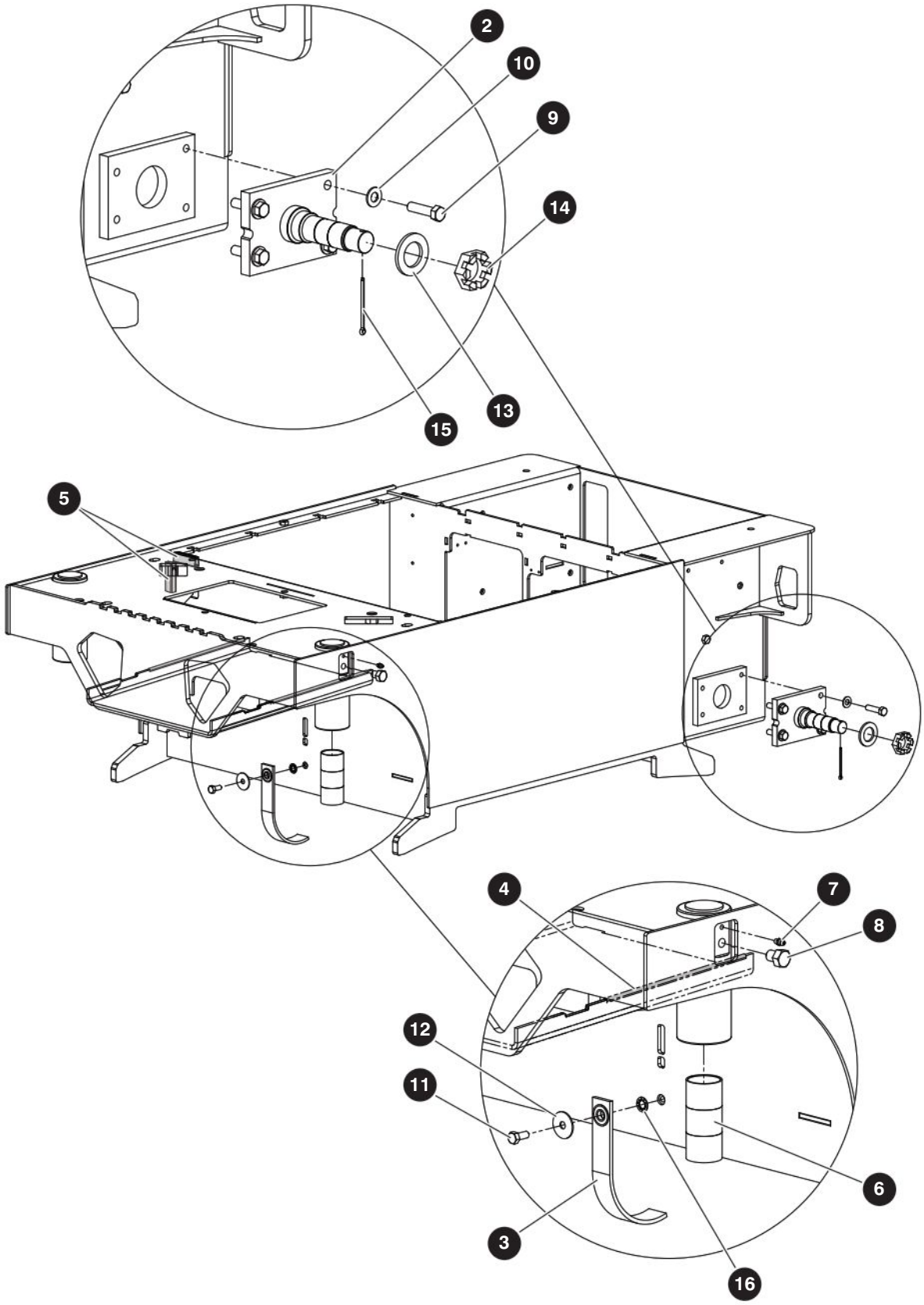
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	MAST CONTROL CABLE
1	192083	1	• SOCKET, Spring - 16 pole
2	115401	6	• FERRULE, Red/Grey (14GA)
3	121050	4	• CONNECTOR, Ferrule (16GA)
4	211449	4	• FERRULE (20GA)
5	234030	1	• HOUSING, CLSD double entry double lock (M25)
6	234032	1	• STRAIN RELIEF (M25 x 1.5)
7	234023	488"	• CABLE, Canbus - 6 condutor
8	204108	2	• CONNECTOR, Receptacle - 6 pin
9	204107	2	• CONNECTOR, Receptacle wedge - 6 pin
10	117590	12	• CONNECTOR, Contact pin - 16-18
11	240012	1	• STRAIN RELIEF, M25 x 1.5 (12-18 MM)

Section 4 – Base



4.2 Drive and Steer Group	4.16 Main Harness - ZAPI A	4.18 Base Control Harness - ZAPI A
4.17 Main Harness - ZAPI B	4.19 Base Control Harness - ZAPI B	4.20 RCD Box (CE Only)

4.1 Chassis

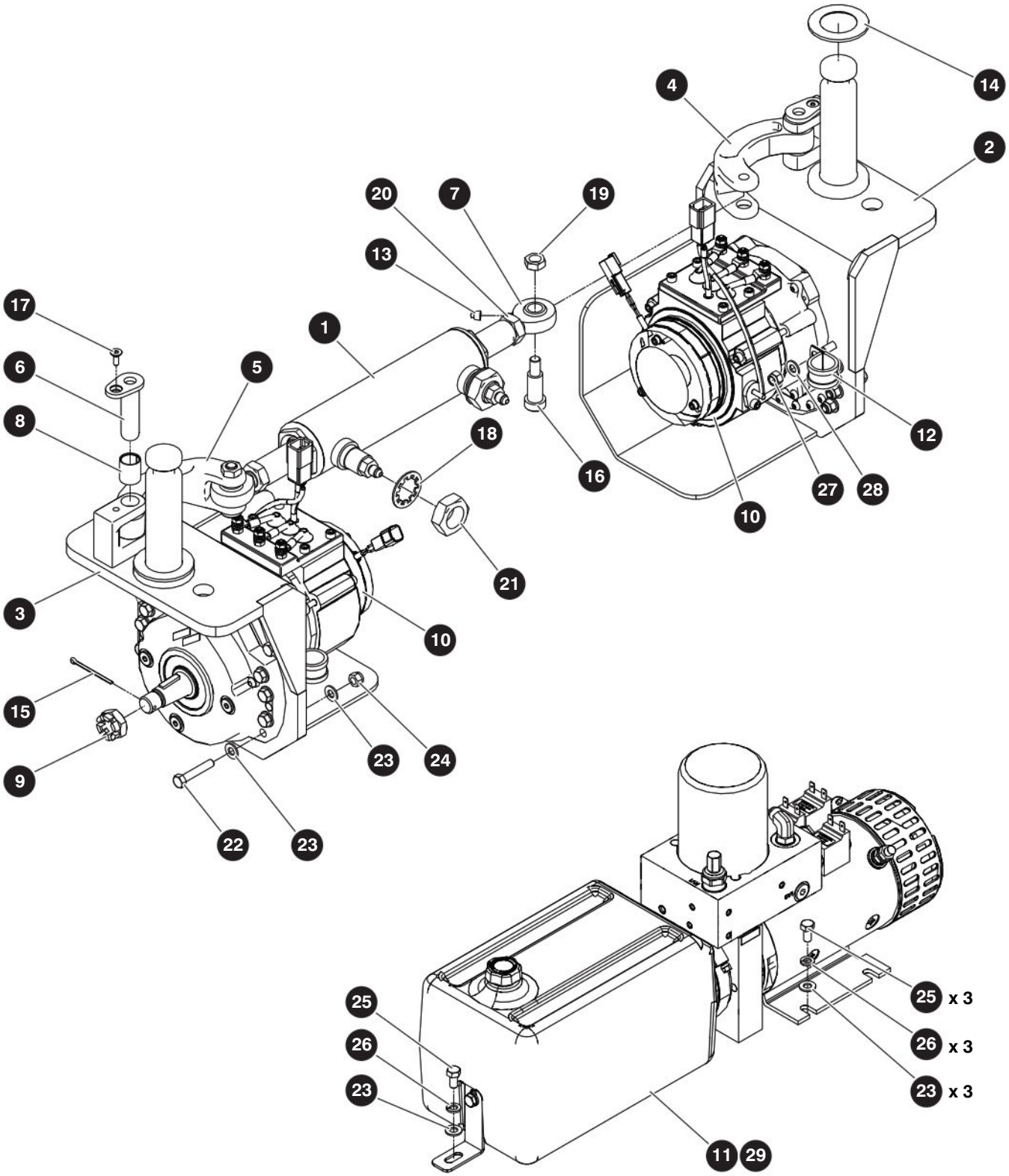


M234701AC

234701, 234501

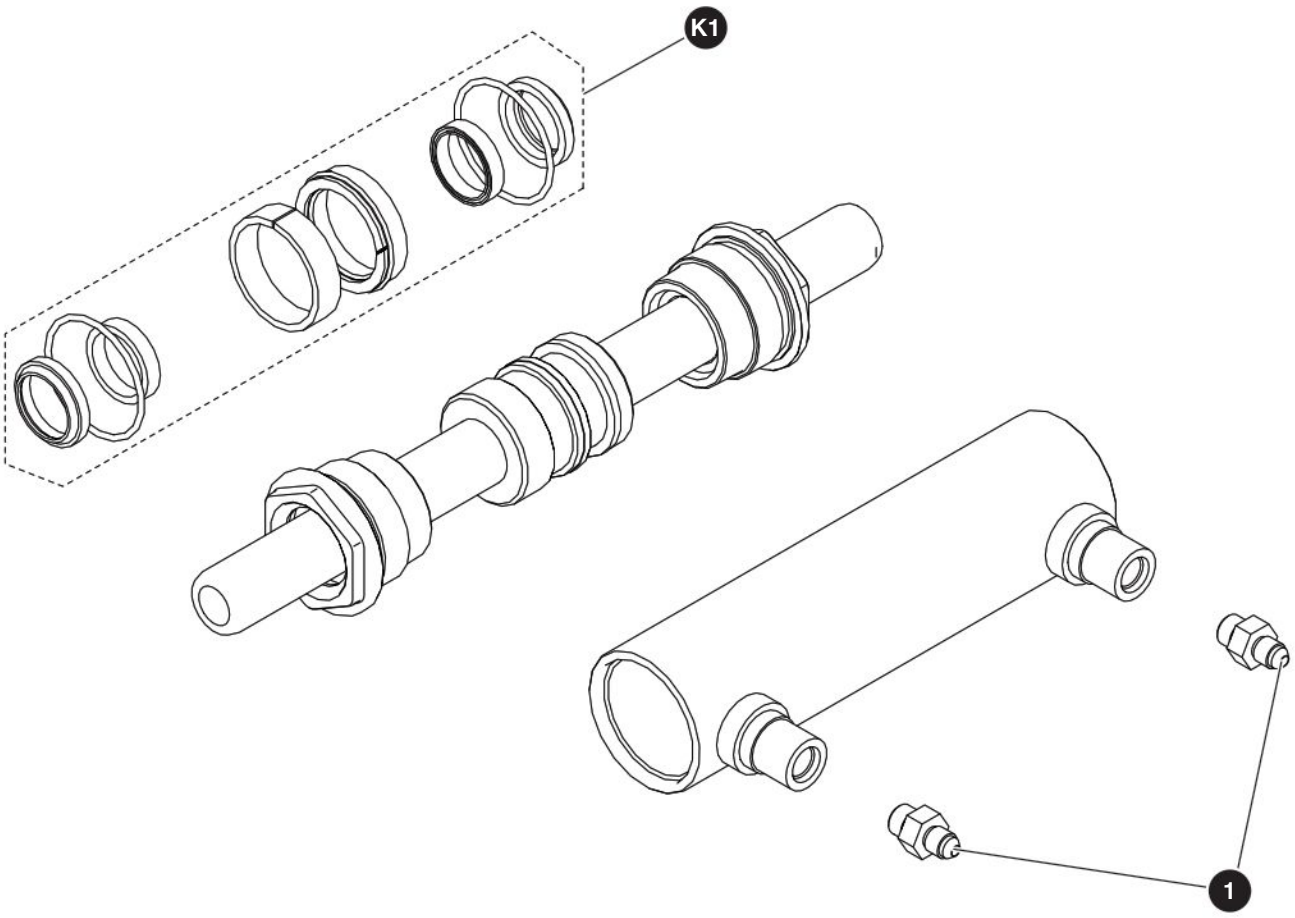
Index No.	Skyjack Part No.	Qty.	Description
A	-	1	CHASSIS, SJ12/16 E
B	-	1	CHASSIS, SJ20 E
1	234702	1	• CHASSIS, **A**
	234502	1	• CHASSIS, **B**
2	234572	2	• REAR AXLE, Short, **A**
	195045	2	• REAR AXLE, **B**
3	115420	1	• STATIC STRAP
4	234727	18"	• EDGE GUARD, U-Style Narrow
5	110007	4"	• CHANNEL, Black edge
6	118341	6	• BUSHING, Fiberglide (1-1/2" DIA x 1-1/4")
7	103513	2	• GREASE NIPPLE, Straight (1/4"-28)
8	234603	2	• BOLT, Hex head zinc (1/2"-13 x 5/8" Gr. 5)
9	101297	8	• BOLT, Hex head (3/8"-16 x 1-1/4" Gr. 5)
10	103472	8	• WASHER, Flat (3/8")
11	103887	1	• BOLT, Hex head (5/16"-18 x 3/4" Gr. 5)
12	207341	1	• WASHER, Flat - Fender (5/16"-18 x 1-1/4")
13	221083	2	• WASHER, Hard (1.074" ID x 1.762 OD x 1-1/2")
14	102749	2	• NUT, Castle (1"-14 TPI x 0.56")
15	122071	2	• PIN, Cotter (1/8" DIA x 2")
16	155979	1	• WASHER, Internal lock tooth (3/8")

4.2 Drive and Steer Group



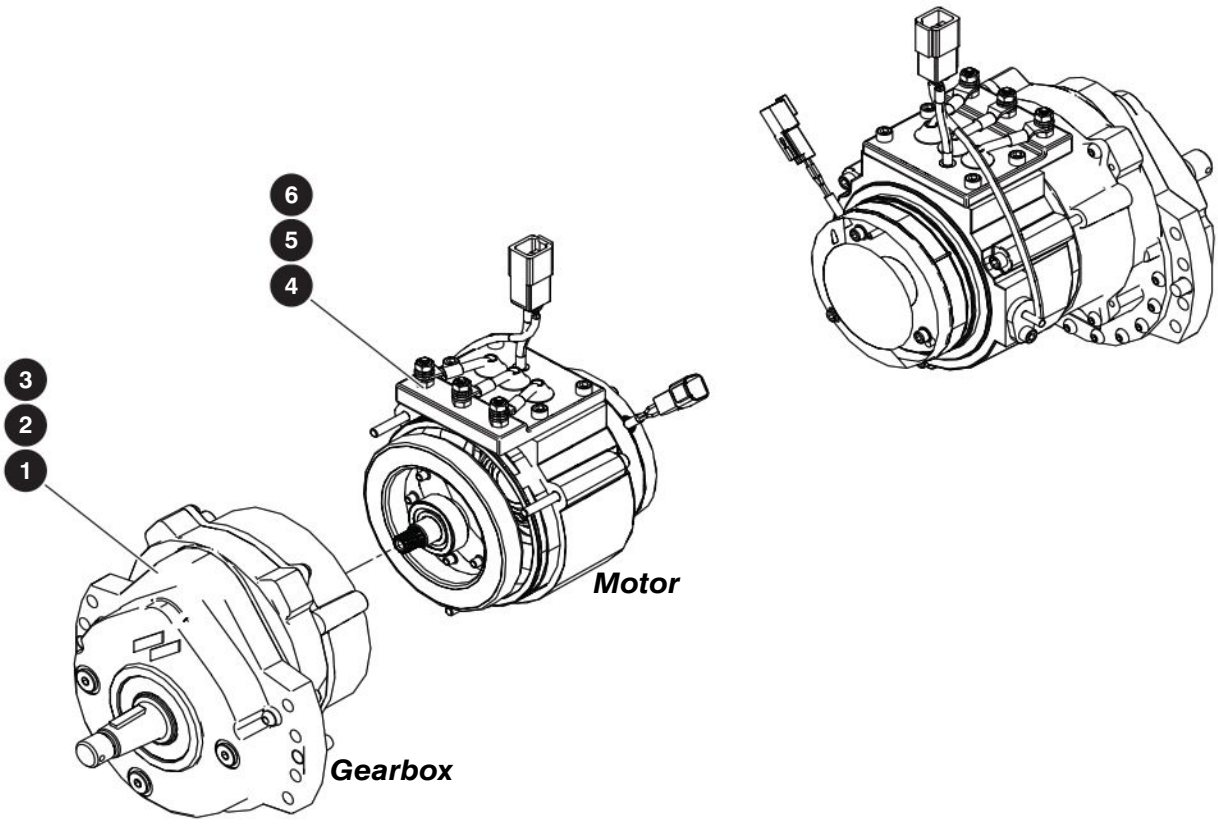
Index No.	Skyjack Part No.	Qty.	Description
A	-	1	DRIVE AND STEER GROUP - SJ12/16 E
B	-	1	DRIVE AND STEER GROUP - SJ20 E
1	(Ref.)	1	• STEER CYLINDER
			(For components, refer to Section 4.3 Steer)
2	234616	1	• MOUNT, Motor - Charger side, ***A***
	234522	1	• MOUNT, Motor - Charger side, ***B***
3	234615	1	• MOUNT, Motor - Base control side, ***A***
	234525	1	• MOUNT, Motor - Base control side, ***B***
4	151248	1	• STEER ARM, Charger side
5	151249	1	• STEER ARM, Base control side
6	151326	2	• PIN, Steering
7	107143	2	• ROD END, Male
8	100050	2	• BUSHING, Fiberglide
9	234532	2	• NUT, Castle - Slotted (3/4"-16)
10	(Ref.)	2	• MOTOR ASM, SP260 with ACX-3662
			(For components, refer to Section 4.4 Motor)
11	(Ref.)	1	• POWER UNIT
			(For components, refer to Section 4.5 Power)
12	168707	2	• CLAMP, Loop - Cushioned (#16 x 1" DIA)
13	132565	2	• CAP, Grease - GC5
14	149782	2	• WASHER, Bronze kingpin (1-1/2")
15	122071	2	• COTTER PIN (1/8" DIA x 2")
16	107951	2	• SCREW, Hex socket shoulder (5/8" x 1-1/4")
17	110853	2	• SCREW, Flat Head Cap (1/4"-20 x 5/8" Gr. 5)
18	103789	2	• WASHER, Lock tooth - SP-NR #B-493 (1")
19	107949	2	• NUT, Hex head jam (1/2"-13 Gr. 5)
20	106450	2	• NUT, Hex head jam (3/4"-16 Gr. 5)
21	107947	2	• NUT, Hex head jam (1"-14 Gr. 5)
22	103885	16	• BOLT, Hex Head (5/16"-18 x 1-3/4" Gr. 5)
23	103996	20	• WASHER, Flat (5/16")
24	234632	16	• NUT, Hex serrated flange (5/16"-18)
25	148331	4	• BOLT, Hex head (5/16"-18 x 5/8" Gr. 5)
26	103404	4	• WASHER, Lock (5/16")
27	103406	2	• NUT, Nylon lock (3/8"-16 Gr. 5)
28	103864	2	• WASHER, Flat (3/8")
29	119309	AR	OIL, ATF Transmission (Procure locally)

4.3 Steer Cylinder



M234078AB 234078

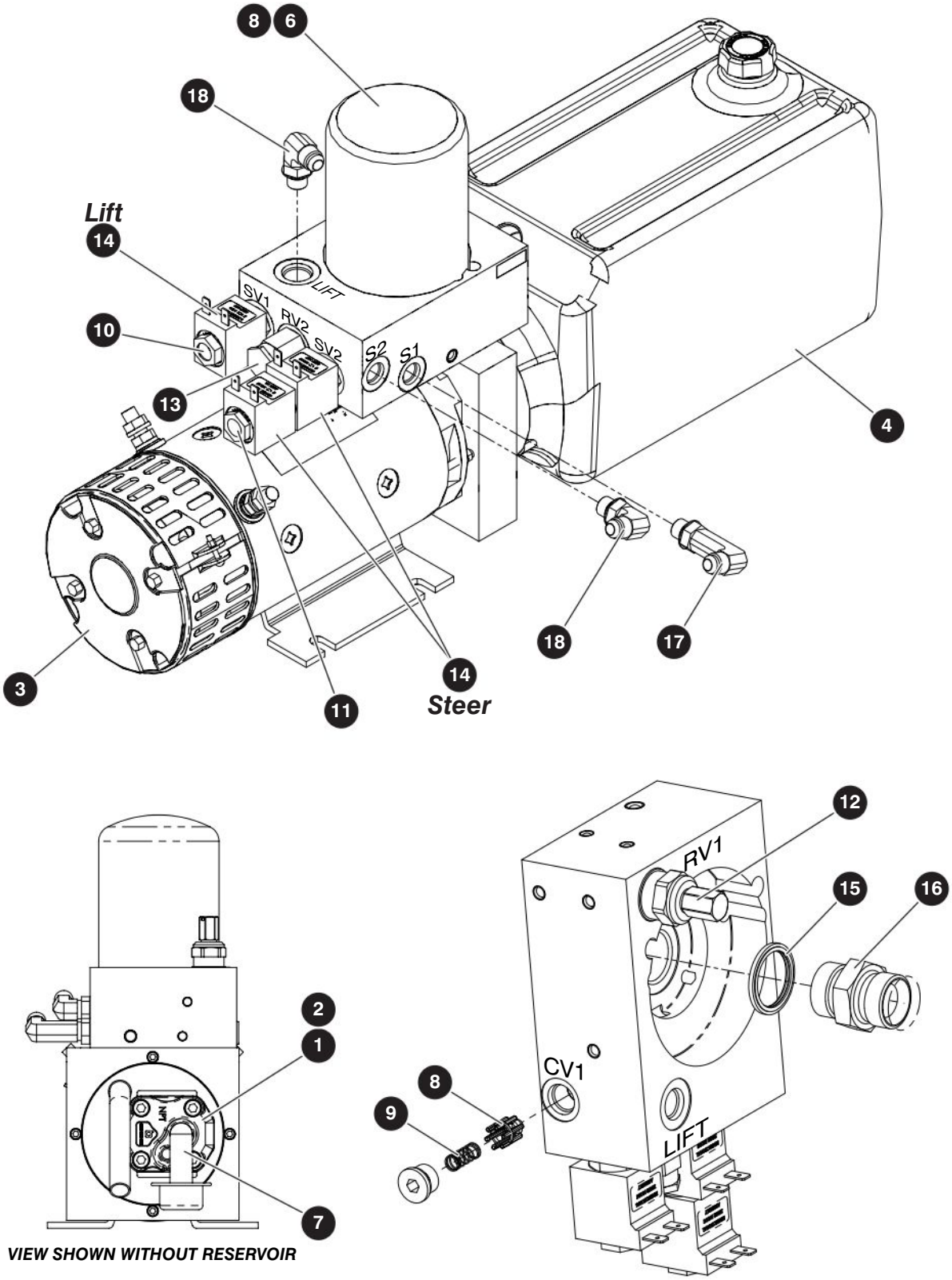
Index No.	Skyjack Part No.	Qty.	Description
-	234078	1	STEER CYLINDER
1	310056	2	• FITTING, Straight (with orifice)
	108002	2	• • ORIFICE (0.04" diameter)
K1	104995	1	SEAL KIT, Steer cylinder - SJ20



M234150AB 234150

Index No.	Skyjack Part No.	Qty.	Description
-	234150	2	MOTOR/GEARBOX ASSEMBLY
A	234004	1	GEARBOX, Wheel drive 56.645:1
1	234722	1	• BEARING KIT, Gearbox
2	234723	1	• KEY, Gearbox
3	234721	1	• SEAL KIT, Gearbox - SJ20
B	234131	1	MOTOR, AC induction with brake ACX-3662
4	234724	1	• BRAKE KIT, Wheel motor
5	234725	1	• SPEED SENSOR, Wheel motor
6	234726	1	• BOLT KIT, Wheel motor

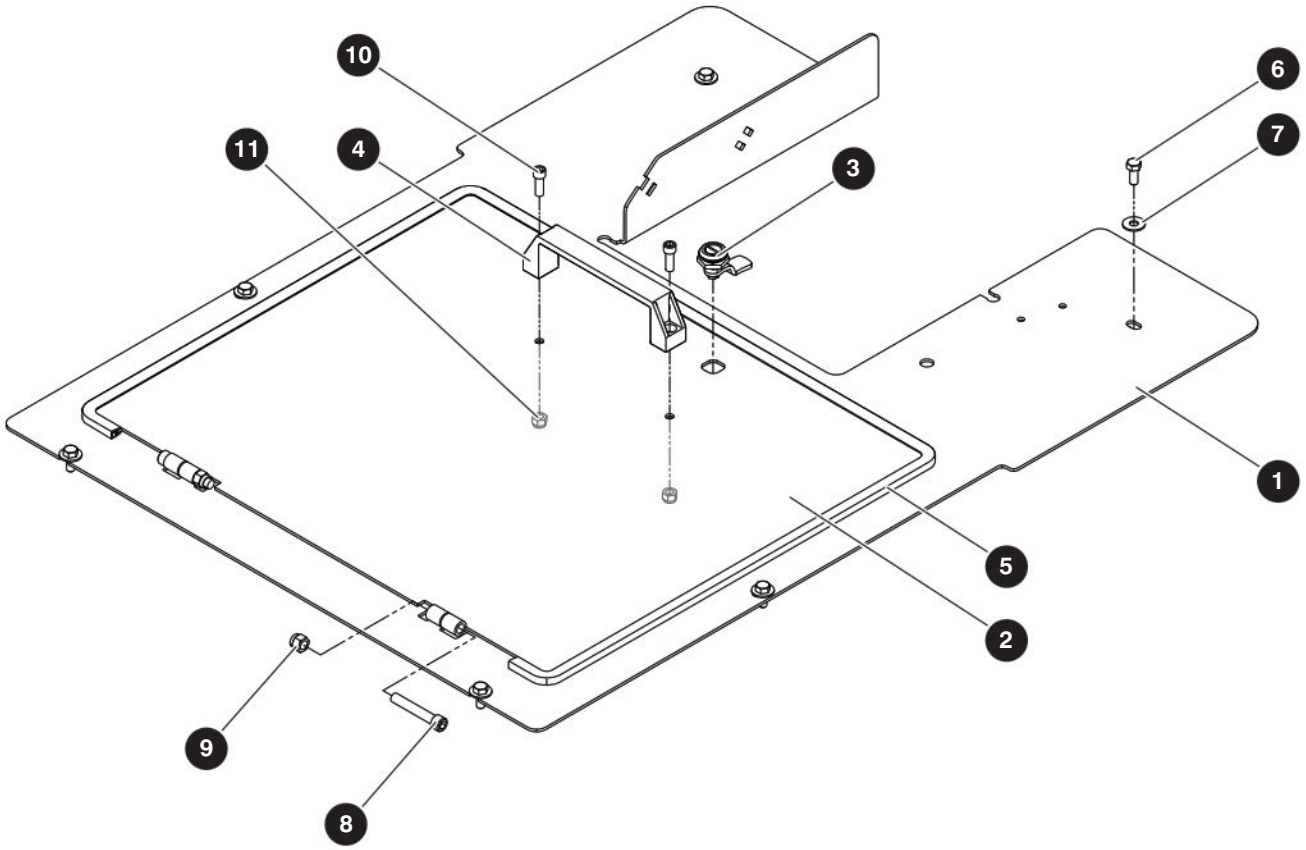
4.5 Power Unit



VIEW SHOWN WITHOUT RESERVOIR

Index No.	Skyjack Part No.	Qty.	Description
-	234158	1	POWER UNIT
1	234703	1	• PUMP, AP100/3.5 -Ext tang no cvrs
2	234704	1	• SEAL, NBR 90 Diamond shape AP
3	234705	1	• MOTOR, DC 24 Volt - 5.0 NEXTND DTY
4	234706	1	• RESERVOIR, Plastic (6.7 x 6.7 x 13 H/MT)
5	234707	1	• CLAMP, Hose worm gear RSV M-SER
6	234709	1	• FILTER, Element Spin-On 7M
7	234710	1	• PLUG, Reservoir breather filler
-	234720	1	• VALVE ASM, Electric 24 VDC - 3W/4W
8	234711	1	• • POPPET, Check
9	234712	1	• • SPRING, Light check valve M-SR
10	234713	1	• • CARTRIDGE, 3W/2P #8 (3000 PSI)
11	234714	1	• • CARTRIDGE, 4W/3P (3000 PSI CC 8)
12	234715	1	• • VALVE MAX, VM01 HDM10 T.95-210
13	234716	1	• • VALVE, Relief cartridge DA size 8 - RV1
14	234717	3	• • COIL, 24VDC 8 Two 1/4 male tab
15	234718	1	• • SEAL, Washer BSPP fitting
16	234719	1	• • ADAPTER, 3/4 BSPP M x 3/4 BSP M
17	162071	1	• FITTING, 90 Degree (06 JICM - 06 ORBM - XL)
18	114578	2	• FITTING, 90 Degree (06 JICM - 06 ORBM)

4.6 Cover

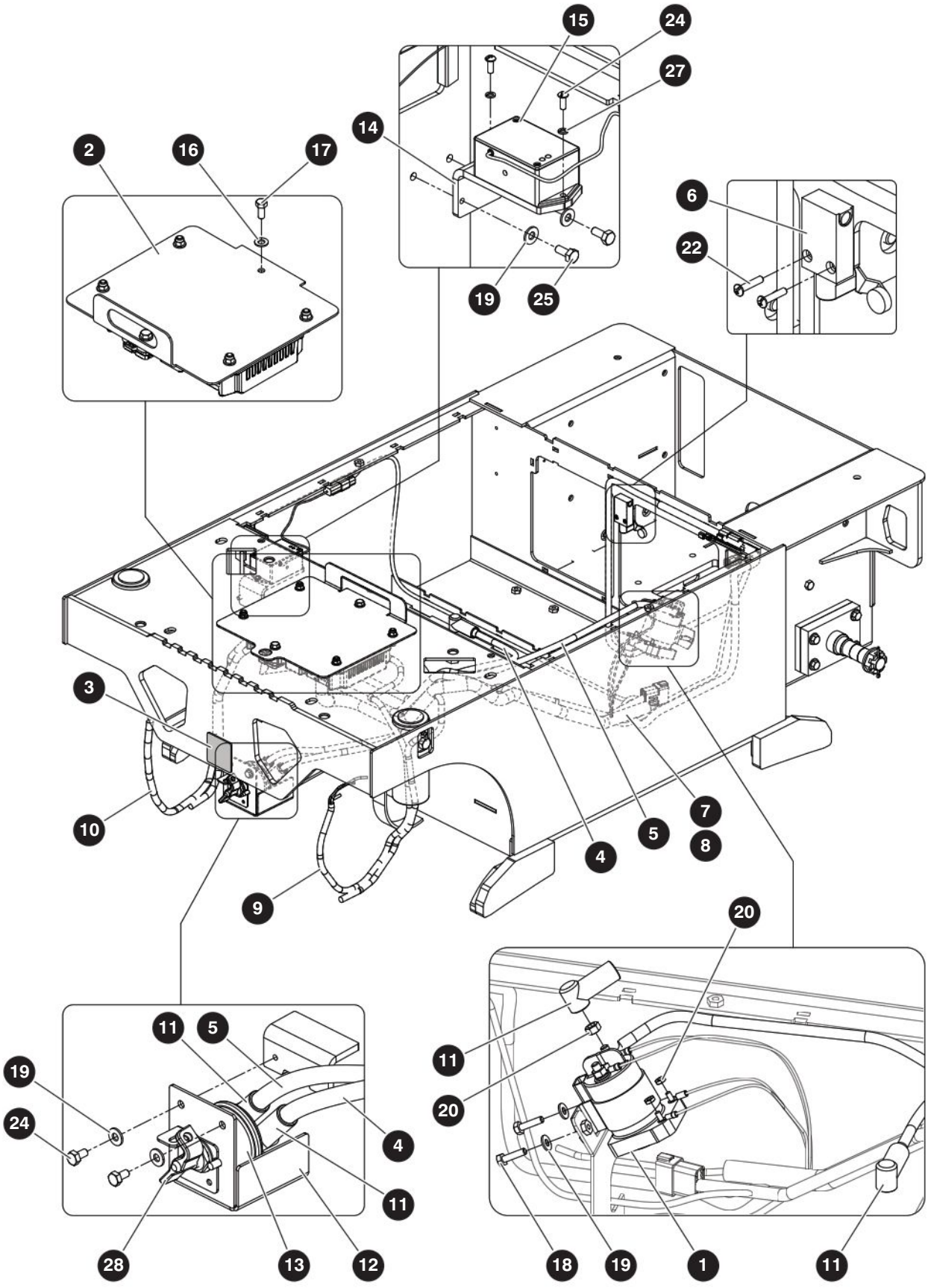


M234581AC

234581

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	COVER GROUP
1	234585	1	• LOWER COVER
2	234582	1	• TOP COVER
3	138715	1	• LATCH, Slotted door
4	928533	1	• HANDLE, Platic pull
5	117398	64"	• PROTECTIVE TRIM (3/16"-1/4")
6	103887	6	• BOLT, Hex head (5/16"-18 x 3/4" Gr. 5)
7	166164	6	• WASHER, Flat (5/16" USS)
8	234578	2	• SCREW, Socket head cap (3/8"-16 x 2-1/4")
9	104606	2	• NUT, Nylon Lock (3/8"-16 Gr. 5)
10	157822	2	• SCREW, Socket Head Cap (5/16"-18 x 7/8")
11	103984	2	• NUT, Nylon Lock (5/16"-18 Gr. 5)

4.7 Base Electrical

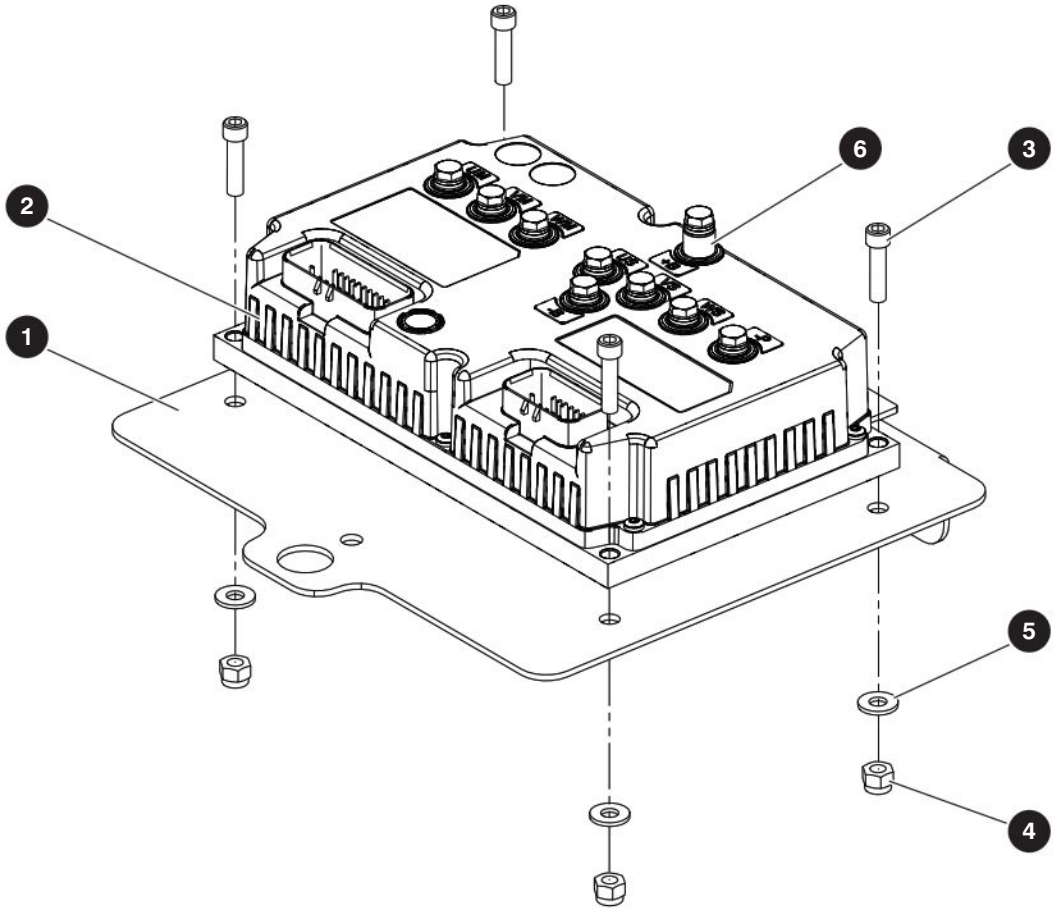


M234297AB

234297

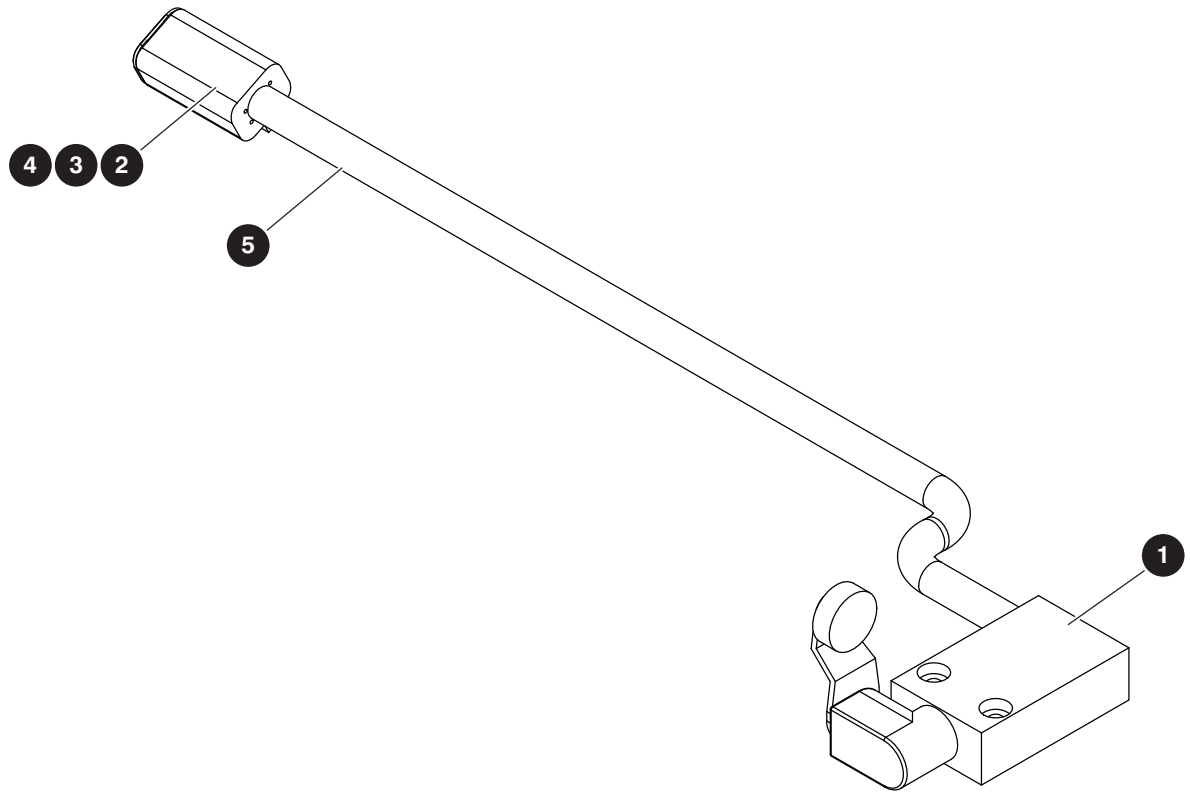
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	BASE ELECTRICAL GROUP
1	146475	1	• SWITCH, Solenoid - Contactor
2	234107	1	• CONTROLLER ASM, SJ20
			(For components, refer to Section 4.8 Controller)
3	119674	1	• LABEL, Battery Disconnect Switch Pictorial
4	216106	1	• CABLE, Battery - #4 GA (5/16" x 34" x 3/8")
5	151591	1	• CABLE, Battery - #4 GA (3/8" x 40" x 5/16")
6	234204	1	• LIMIT SWITCH ASM, SJ20
			(For components, refer to Section 4.9 Base)
7	234292	1	• HARNESS, Main - ZAPI A Connector
8	234156	1	• HARNESS, Main - ZAPI B Connector
9	234242	1	• CABLE ASM, Base control-side motor
	234241	3	• • WELDING CABLE, #8 GA (5/16" x 44" x 1/4")
	102892	3	• • TIEWRAP. Cable - black (5-3/8")
10	234243	1	• CABLE ASM, Charger-side motor
	234241	3	• • WELDING CABLE, #8 GA (5/16" x 44" x 1/4")
	102892	3	• • TIEWRAP. Cable - black (5-3/8")
11	117408	4	• BOOT, Battery - Red
12	234475	1	• BRACKET, Main disconnect
13	119725	1	• SWITCH, Main disconnect (6-36 VDC) (Lever kit not included)
14	234789	1	• BRACKET, Tilt sensor
15	234997	1	• SENSOR, Tilt switch (1.5 x 2.5)
16	103996	2	• WASHER, Flat (5/16")
17	103887	2	• BOLT, Hex head (5/16"-18 x 3/4" Gr. 5)
18	103857	2	• BOLT, Hex head zinc (1/4"-20 x 1" Gr. 5)
19	103995	6	• WASHER, Flat (1/4")
20	156844	2	• NUT, Hex (5/16"-24 Gr. 5)
21	104003	2	• NUT, Hex (#10-32)
22	103958	2	• SCREW, Round head machine (#8-32 x 3/4")
23	117696	12	• BOOT, Terminal - Rubber (#4 AWG)
24	103855	2	• BOLT, Hex head (1/4"-20 x 1/2" Gr. 5)
25	103892	2	• BOLT, Hex head (1/4"-20 x 5/8" Gr. 5)
26	103960	2	• SCREW, Round head machine (#10-24 x 1/2")
27	104185	2	• WASHER, Lock (#10)
28	108714	1	LOCKING LEVER KIT

4.8 Controller



M234107AF 234107

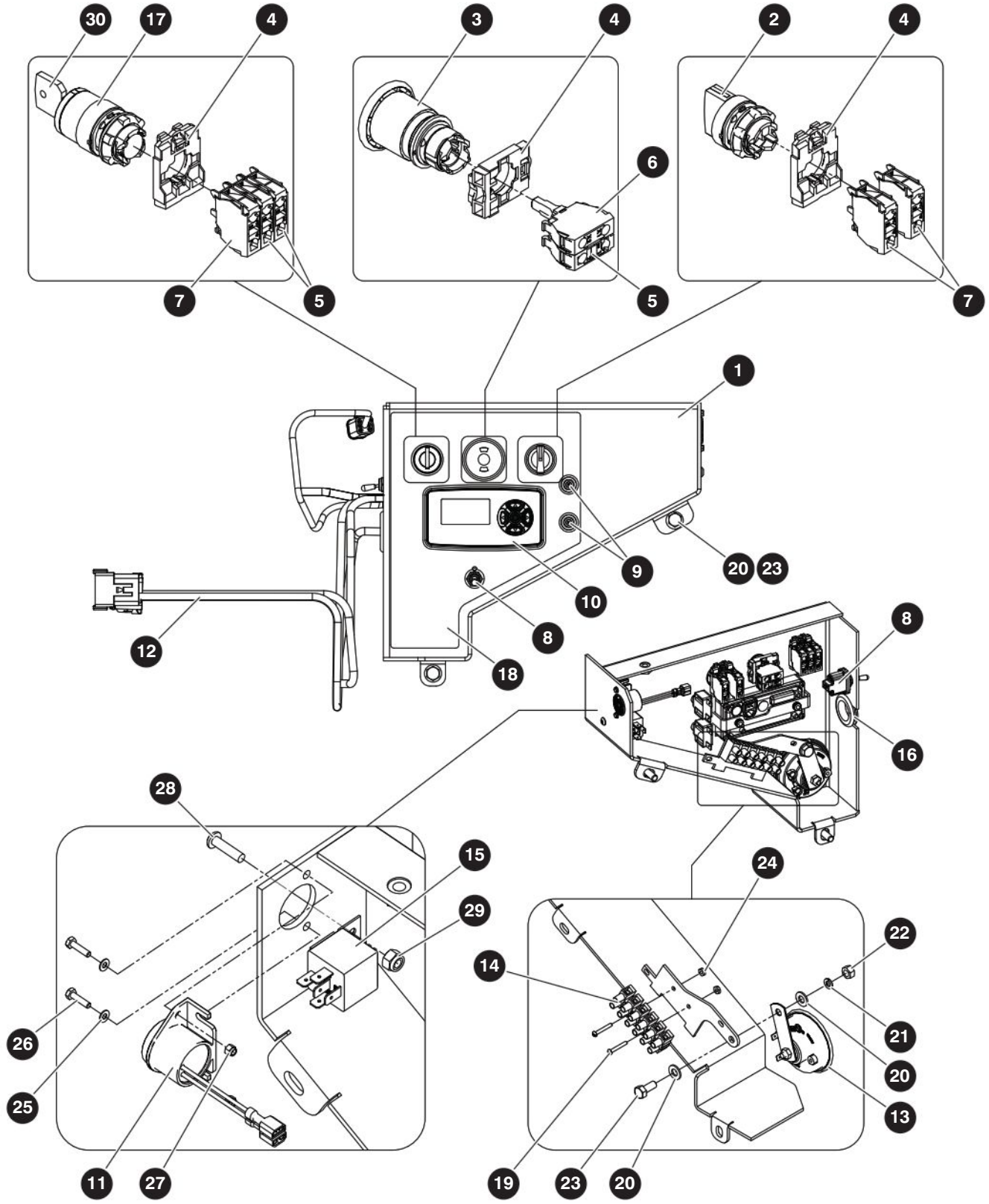
Index No.	Skyjack Part No.	Qty.	Description
-	-	1	CONTROLLER
1	234531	1	• PLATE, Controller mount
2	234005	1	• CONTROLLER, Motor AC TRCT- DC Pump
3	138622	4	• SCREW, Socket head cap (1/4"-20 1" Zinc)
4	115649	4	• NUT, Nylon lock (1/4"-20 Gr. 5)
5	103995	4	• WASHER, Flat (1/4")
6	125580	1	• SPACER, Railing retainer
7	240896	1	TOOL KIT, ZAPI smart console (not shown)
	234217	1	• ZAPI SMART CONSOLE
	234289	1	• ADAPTER HARNESS



M234204AC 234204

Index No.	Skyjack Part No.	Qty.	Description
-	234204	1	BASE LIMIT SWITCH
1	199405	1	• LIMIT SWITCH, Lever - 2M
2	117579	1	• CONNECTOR, 4F Sealed - DT
3	117591	4	• TERMINAL, F 16-18AWG NI SLD - Size 16
4	117581	1	• CONNECTOR, TPA 4F - DT
5	108878	2	• HEATSHRINK, Polyofin (5/16" DIA)

4.10 Base Control

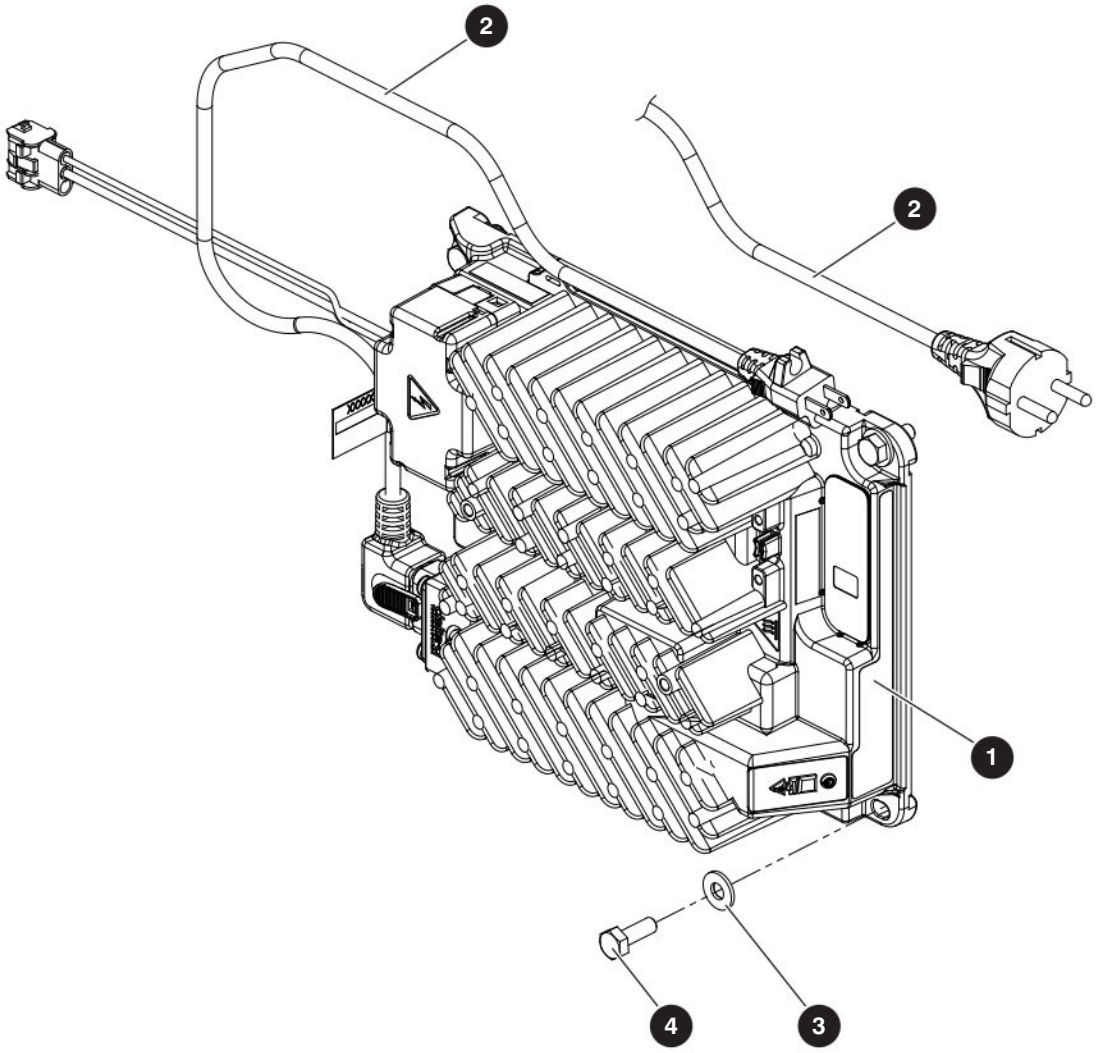


M234472AA

234469, 234295

Index No.	Skyjack Part No.	Qty.	Description
A	234469	1	BASE CONTROL, ANSI/CSA, AS
B	234295	1	BASE CONTROL, CE
1	234317	1	• BASE CONTROL BOX
2	147069	1	• HEAD, Selector switch, ***A***
	147057	1	• HEAD, Selector switch, ***B***
3	147051	1	• HEAD, Emergency stop
4	147056	3	• LATCH
5	147053	3	• CONTACT BLOCK, Normally closed
6	147061	1	• LED BLOCK, Red - 24V
7	147054	3	• CONTACT BLOCK, Normally open
8	115573	2	• SWITCH, Toggle - 1TL1 - 8
9	117325	2	• BREAKER, Circuit (15 Amp)
10	234006	1	• DISPLAY MODULE, Motor controller
11	215817	1	• BEEPER, With terminals
12	-	1	• BASE CONTROL WIRING
	(Ref.)	1	• • BASE CONTROL HARNESS - ZAPI A
			(For components, refer to Section 4.18 Base)
	(Ref.)	1	• • BASE CONTROL HARNESS - ZAPI B
			(For components, refer to Section 4.19 Base)
13	146649	1	• HORN, 24 V Low tone
14	103011	1	• TERMINAL BLOCK, 6P Large
15	108589	1	• RELAY, 24V - 40 Amp
16	141612	1	• GROMMET, Rubber (1" x 3/8" x 1/8")
17	149536	1	• SWITCH, Selector - Keyed
18	230744	1	• LABEL, Base controls - SJ20
19	103956	2	• SCREW, Round head machine (#6-32 x 1")
20	103996	4	• WASHER, Flat (5/16")
21	104000	1	• WASHER, Lock (1/4")
22	100397	1	• NUT, Hex head zinc (5/16"-18 Gr. 5)
23	103887	3	• BOLT, Hex head (5/16"-18 x 3/4" Gr. 5)
24	103985	2	• NUT, Hex (#6-32)
25	228464	2	• WASHER, Flat (M3 Zp)
26	228468	2	• BOLT, Hex head (M3 x 1/2" x 12" CL 8.8 Ft Zp)
27	217626	2	• NUT, Hex nylon lock (M3 x 1/2" CL 8 Zp)
28	192776	1	• BOLT, Button Head Cap Screw (#10-24 x 3/4")
29	126642	1	• NUT, Nylon lock (#10-24 Gr. 5)
30	104466	1	• KEY, Base control

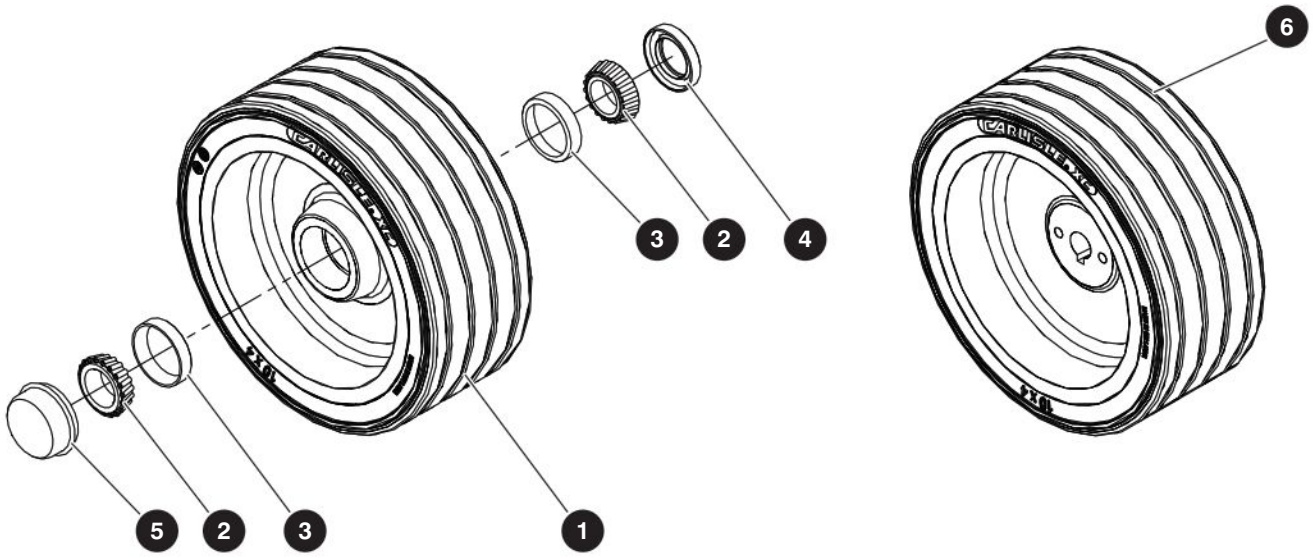
4.11 Charger



M234294AA

234294, 234296

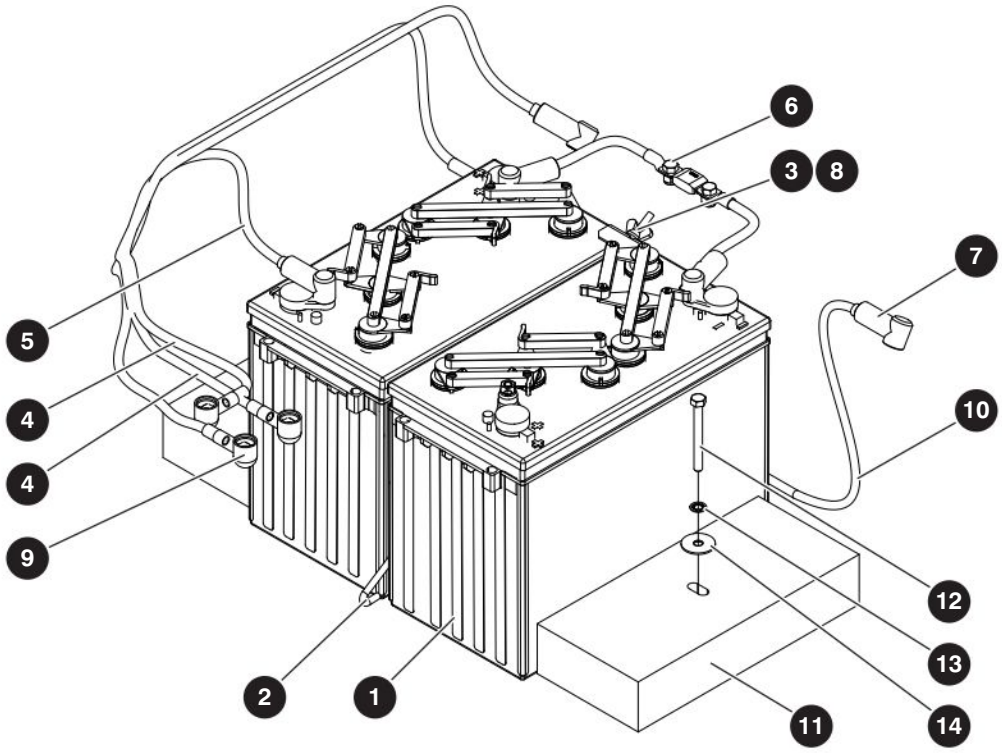
Index No.	Skyjack Part No.	Qty.	Description
A	-	1	CHARGER, IC650 ZAPI ***(ANSI/CSA)***
B	-	1	CHARGER, IC650 ZAPI ***(CE, AS)***
1	234293	1	• CHARGER, Delta-Q - IC650
2	223156	1	• CORD, Delta-Q charger - IC650, ***A***
	223157	1	• CORD, Delta-Q charger - IC650 CE, ***B***
3	103995	4	• WASHER, Flat (1/4")
4	103891	4	• BOLT, Hex Head Zinc (1/4"-20 x 7/8" Gr. 5)



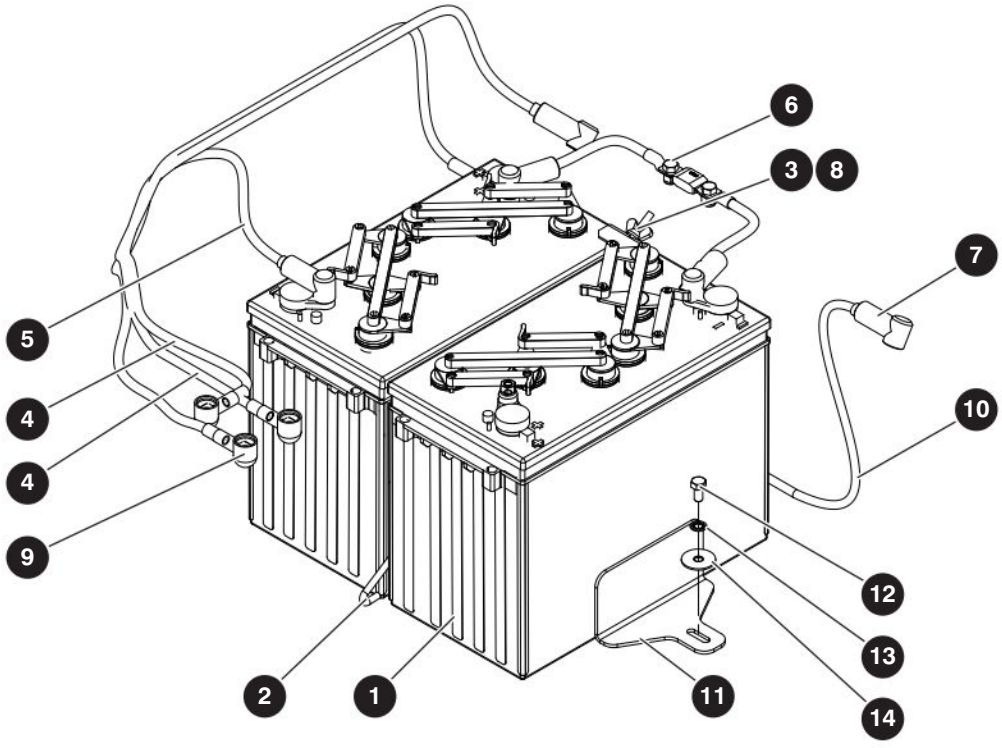
M234540AB 234540

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	WHEEL GROUP
-	234076	2	• FREE WHEEL, Solid - 10x4
1	-	1	• • WHEEL, Freewheel - 10x4
2	103003	2	• • BEARING CONE
3	102977	2	• • BEARING, Cup - Outer
4	103143	1	• • SEAL, Greaes (007, 009)
5	102865	1	• • DUST CAP
6	234077	2	• WHEEL, Solid - 10x4

SJ12/16 E



SJ20 E

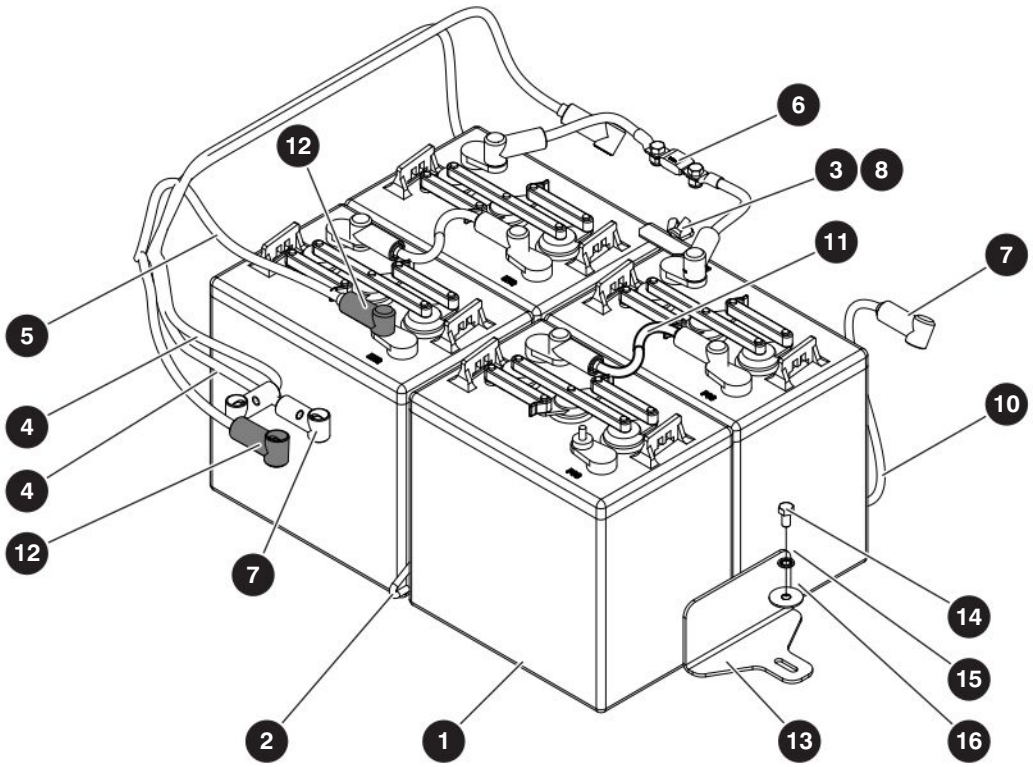


M69532AA

234610, 234570

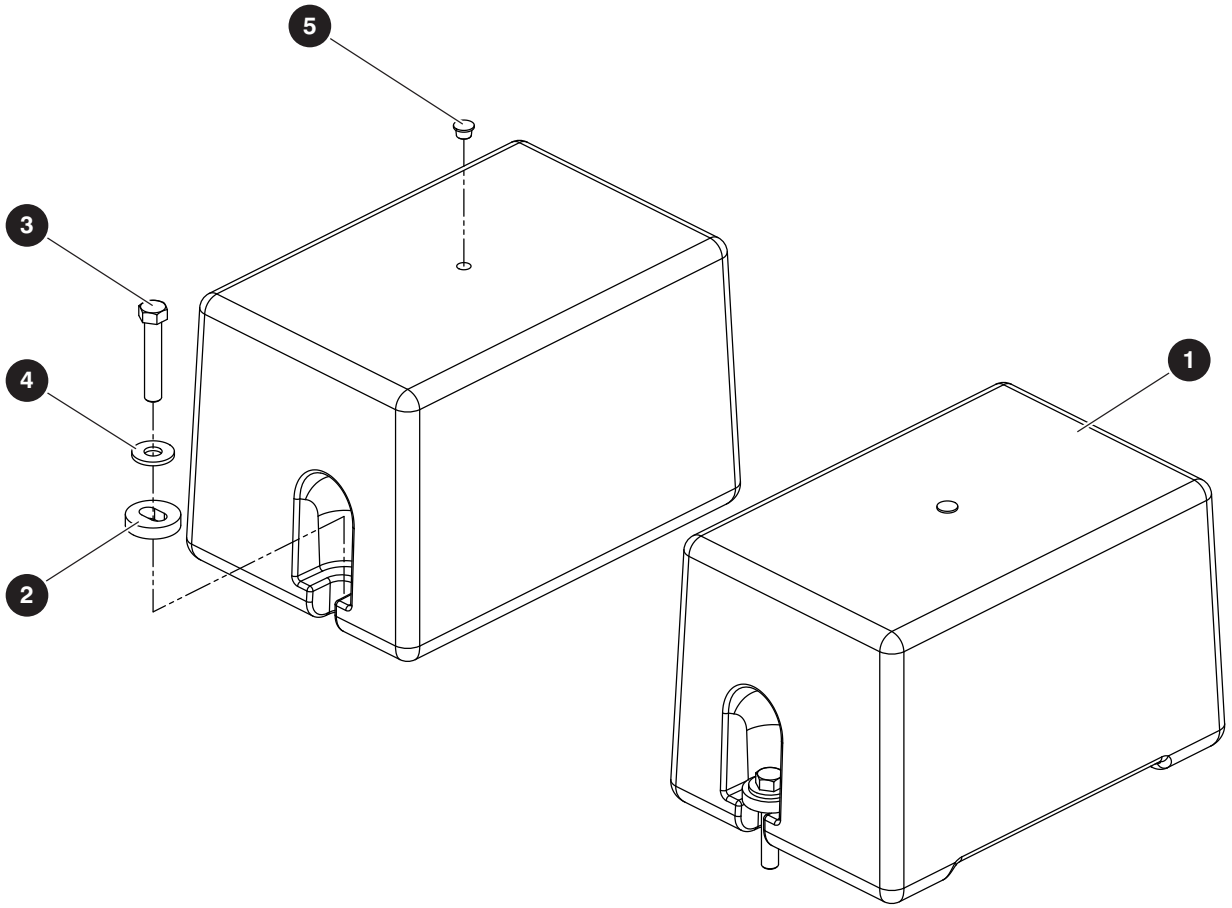
Index No.	Skyjack Part No.	Qty.	Description
A	-	1	BATTERY, 12 V - SJ12/16 E **(ANSI/CSA standard)**
B	-	1	BATTERY, 12 V - SJ20 E **(ANSI/CSA standard)**
1	-	2	• BATTERY, 12V Deep cycle 155Ah - US 12V XC2
2	234537	1	• J HOOK, Battery hold down - 17-3/4"
3	157364	1	• BRACKET, Battery tie down
4	234548	2	• CABLE, Battery - #4 GA (1/4" x 40" x 3/8")
5	234607	1	• CABLE, Battery - #4 GA (1/4" x 30" x 5/16")
6	216103	1	• CABLE, Battery - In-line fuse (300 A)
7	117408	5	• BOOT, Battery - Red
8	120175	1	• NUT, Wing - 1/4"-20 Type A
9	117696	3	• BOOT, Terminal - Rubber (#4 AWG)
10	234608	1	• CABLE, Battery - #4 GA (5/16" x 38" x 3/8")
11	234813	2	• COUNTERWEIGHT, Battery, ***A*** ***(Note: The counterweight must be used with two 12V batteries on SJ12/16 E machines)***
	234612	2	• PLATE, Battery holder, ***B***
12	103867	2	• BOLT, Hex head zinc (5/16"-18 x 3" Gr. 5), ***A***
	148331	2	• BOLT, Hex head zinc (5/16"-18 x 5/8" Gr. 5), ***B***
13	234264	2	• WASHER, Internal tooth lock (5/16")
14	207341	2	• WASHER, Flat fender (5/16" x 1-1/4")

4.14 Batteries - 6 Volt



M234550AC 234550

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	BATTERY, 6 V **(CE/AS standard) (ANSI/CSA optional)**
1	-	4	• BATTERY, 6 V with lifting lugs - U2200XC2
2	234537	1	• J HOOK, Battery hold down - 17-3/4"
3	157364	1	• BRACKET, Battery tie down
4	234548	2	• CABLE, Battery - #4 GA (1/4" x 40" x 3/8")
5	234607	1	• CABLE, Battery - #4 GA (1/4" x 30" x 5/16")
6	216103	1	• CABLE, Battery - In-line fuse (300 A)
7	117408	10	• BOOT, Battery - Red
8	120175	1	• NUT, Wing - 1/4"-20 Type A
10	234608	1	• CABLE, Battery - #4 GA (5/16" x 38" x 3/8")
11	120425	2	• CABLE, Battery - #4 GA (5/16" x 6" x 5/16")
12	117407	2	• BOOT, Battery - Black
13	234612	2	• PLATE, Battery holder
14	148331	2	• BOLT, Hex head zinc (5/16"-18 x 5/8" Gr. 5)
15	234264	2	• WASHER, Internal tooth lock (5/16")
16	207341	2	• WASHER, Flat fender (5/16" x 1-1/4")

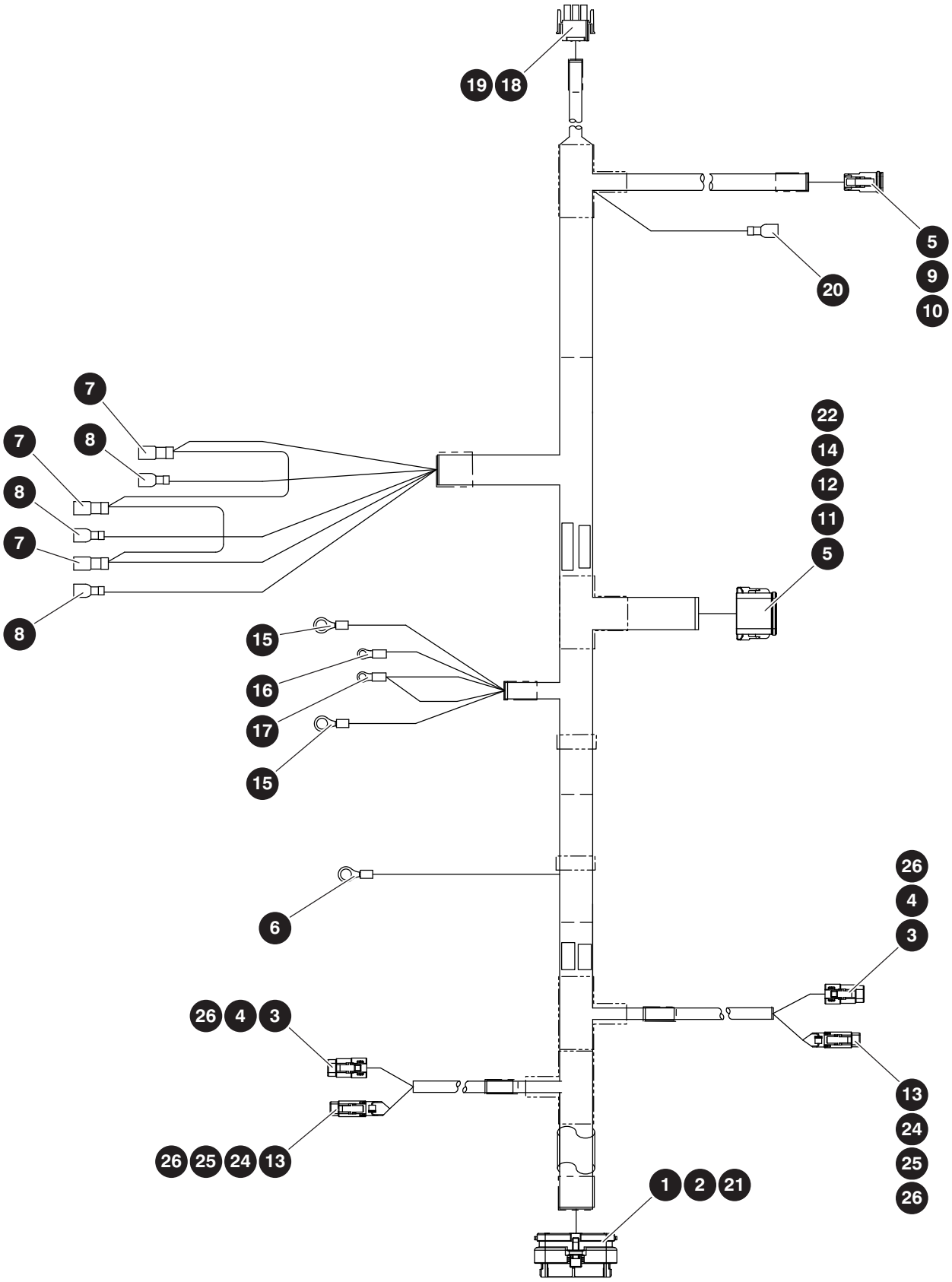


M234601AD

234601

Index No.	Skyjack Part No.	Qty.	Description
A	-	1	COUNTERWEIGHT GROUP - SJ12 E
B	-	1	COUNTERWEIGHT GROUP - SJ16 E
C	-	1	COUNTERWEIGHT GROUP - SJ20 E
1	234735	2	• COUNTERWEIGHT, ***A***
	234737	2	• COUNTERWEIGHT, ***B***
	234732	2	• COUNTERWEIGHT, ***C***
2	234733	4	• WASHER, Slotted (1-5/8" OD x 3/8" thick)
3	108818	4	• BOLT, Hex head (1/2"-13 x 2-3/4" Gr. 5)
4	103468	4	• WASHER, Flat (1/2" SAE)
5	206937	2	• PLUG, Threaded hole - orange (1/2")

4.16 Main Harness - ZAPI A



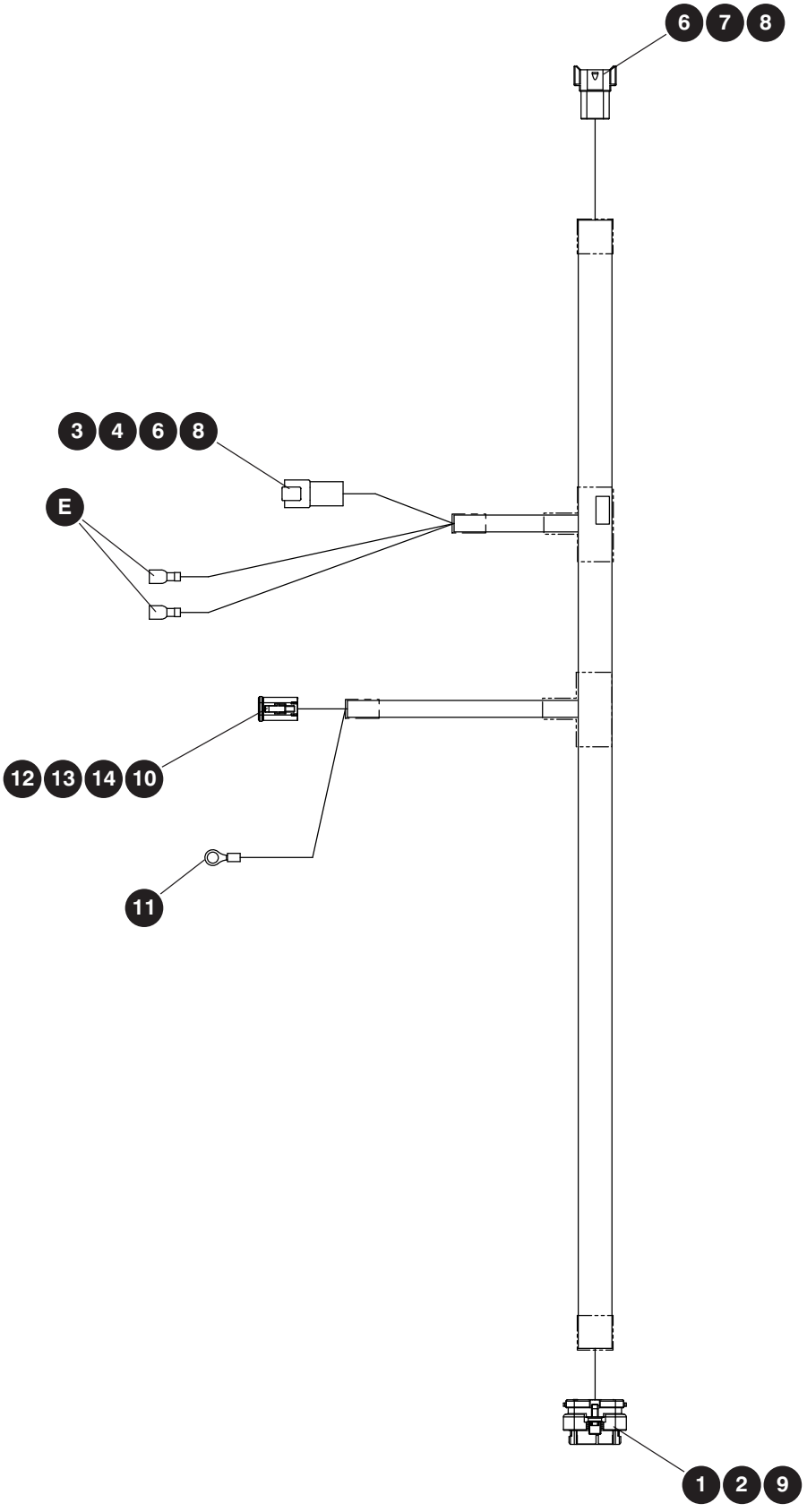
M234292AA

234292

4.16 Main Harness - ZAPI A

Index No.	Skyjack Part No.	Qty.	Description
-	234292	1	MAIN HARNESS - ZAPI A
1	138831	1	• PLUG, 35 Position
2	138832	26	• CONTACT, Ampseal
3	234223	2	• CONTACT, Plug - 6 pin DTM
4	234225	2	• LOCK, Wedge - 6 way plug DTM
5	117591	8	• TERMINAL, F 16-18AWG NI SLD - Size 16
6	102940	1	• TERMINAL, Ring - Yellow (10-12 GA x 5/16")
7	114595	3	• TERMINAL, Female - Red (19-22 AWG)
8	105568	3	• TERMINAL, Female (10-12 AWG Nylon Yellow)
9	117597	1	• CONNECTOR, Plug - 2-Pin
10	117599	1	• CONNECTOR, Plug - 2-Pin Wedge
11	117587	1	• CONNECTOR, Plug - 12-Pin
12	117589	1	• CONNECTOR, Plug - 12-Pin Wedge
13	234227	2	• DIODE, Schottky (10V 3A)
14	220613	2	• CONNECTOR, Contact socket - No. 20
15	109210	2	• TERMINAL, Ring (14-16 GA x 5/16")
16	119752	1	• TERMINAL, #10 Ring - Red (18-22 AWG)
17	102936	1	• TERMINAL, #10 Ring - Blue (14-16 AWG)
18	130446	1	• PLUG. 3-Pole - Male
19	116990	3	• WIRE PIN, Female
20	114595	1	• TERMINAL, Female - Red (19-22 AWG)
21	206110	9	• PLUG, Ampseal cavity
22	117594	1	• CONNECTOR, Sealing plug
23	234208	96"	• CABLE, Canbus - J1939/11
24	234224	2	• CONNECTOR, Plug - 2 way DTM
25	234226	2	• LOCK, Wedge - 2 way plug DTM
26	220613	16	• CONNECTOR, Contact socket No. 20

4.17 Main Harness - ZAPI B

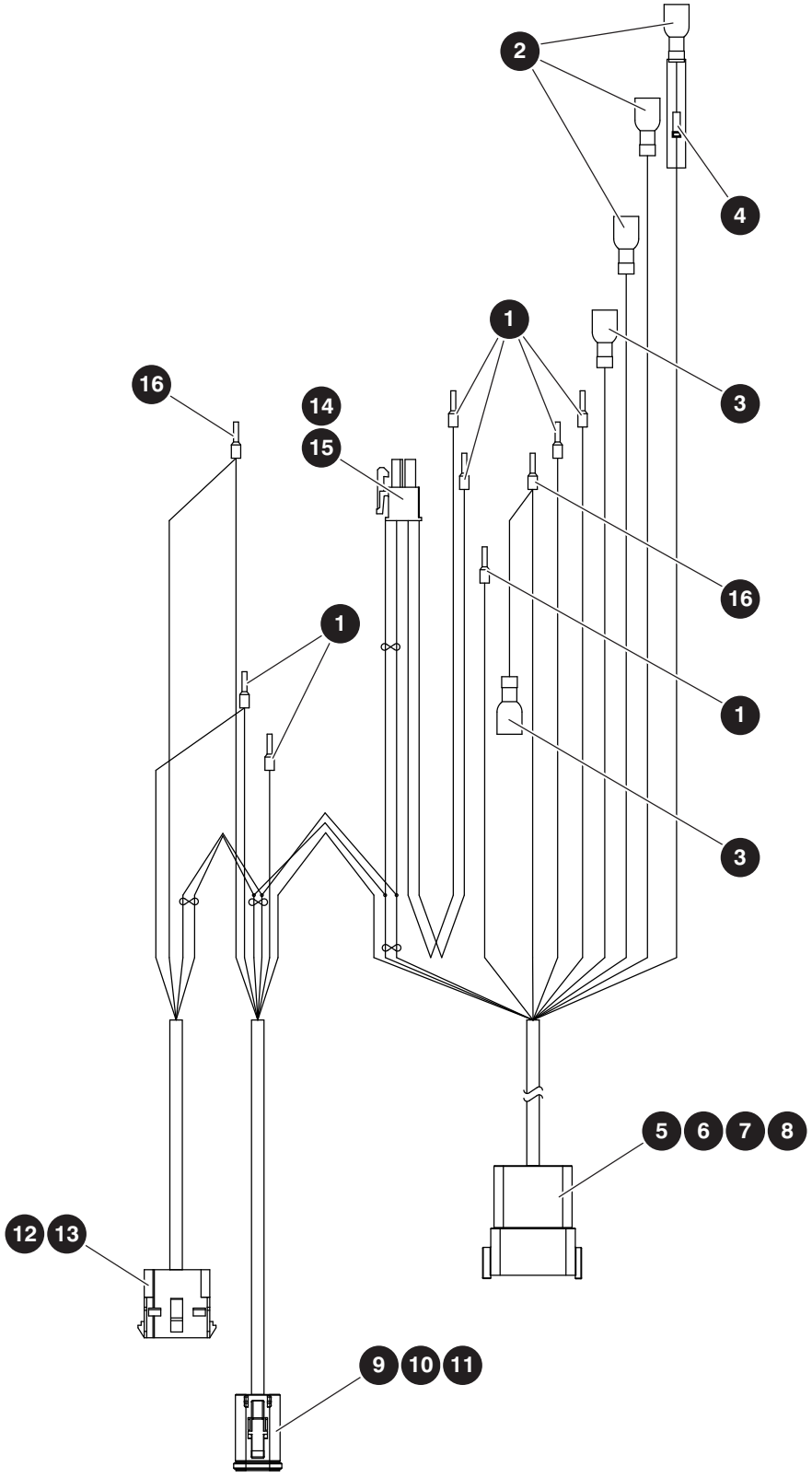


M234156AD

234156

Index No.	Skyjack Part No.	Qty.	Description
-	234156	1	MAIN HARNESS - ZAPI B
1	206108	1	• CONNECTOR, 23 Pin Amp
2	138832	12	• CONTACT, Ampseal
3	117578	1	• CONNECTOR, Receptacle - 4-Pin
4	117580	1	• CONNECTOR, Receptacle - 4-Pin Wedge
5	114595	2	• TERMINAL, Female - Red (19-22 AWG)
6	117586	1	• CONNECTOR, Receptacle - 12-Pin
7	117588	1	• CONNECTOR, Receptacle - 12-Pin Wedge
8	117590	14	• CONNECTOR, Contact pin - 16-18
9	206110	11	• PLUG, Ampseal cavity
10	117594	2	• CONNECTOR, Sealing plug
11	210086	1	• TERMINAL, 3/8" Ring - Vinyl Red (18-22 AWG)
12	117579	1	• CONNECTOR, Plug - 4-Pin
13	117581	1	• CONNECTOR, Plug - 4-Pin Wedge
14	117591	3	• CONNECTOR, Contact socket 16-18

4.18 Base Control Harness - ZAPI A



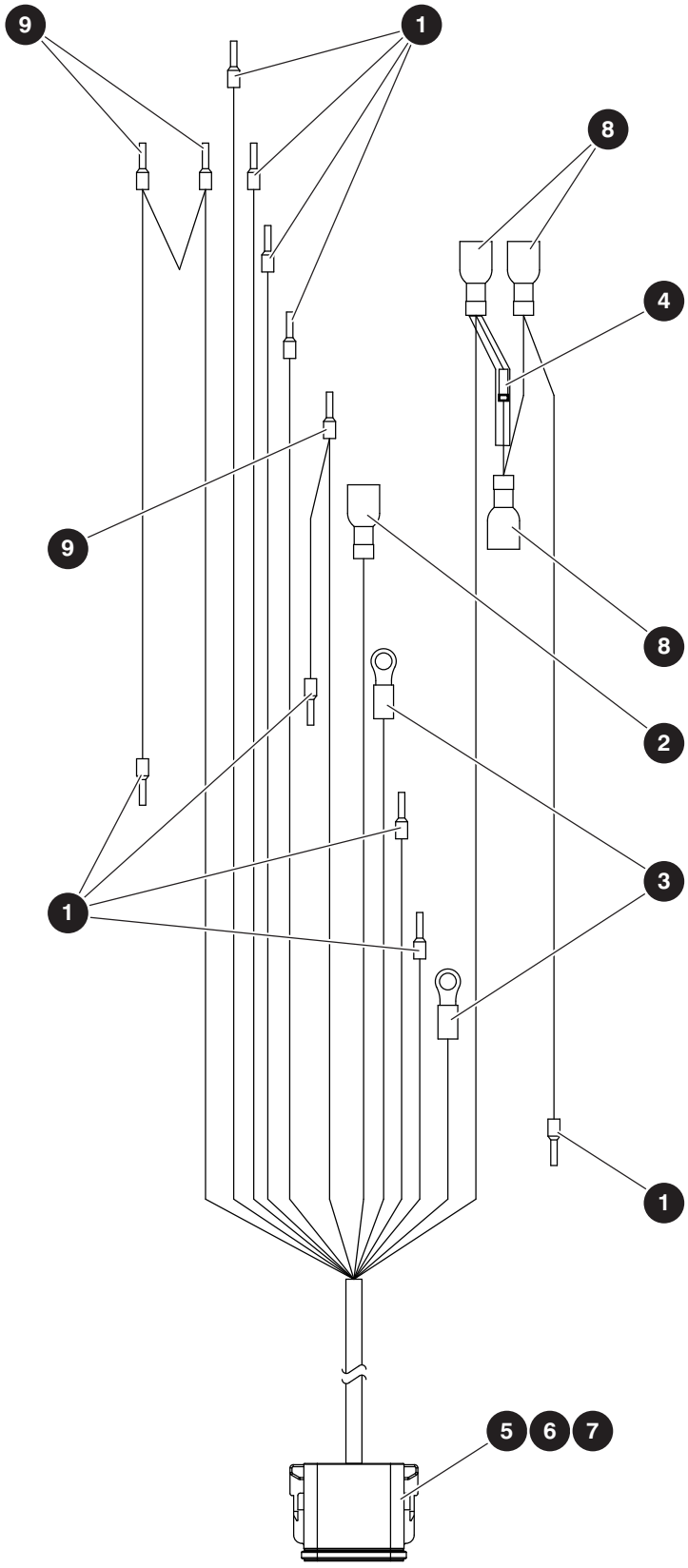
M234199AB

234199

4.18 Base Control Harness - ZAPI A

Index No.	Skyjack Part No.	Qty.	Description
-	234199	1	BASE CONTROL HARNESS - ZAPI A
1	115401	6	• FERRULE, Red/Grey (14 GA)
2	114595	3	• TERMINAL, Female - Red (19-22 AWG)
3	114594	1	• TERMINAL, Male - Red (18-22 AWG)
4	234227	1	• DIODE, Schottky (10V 3A)
5	117586	1	• CONNECTOR, Receptacle - 12-Pin
6	117588	1	• CONNECTOR, Receptacle - 12-Pin Wedge
7	117590	11	• CONNECTOR, Contact pin - 16-18
8	117594	1	• CONNECTOR, Sealing plug
9	158476	1	• CONTACT, Plug - 6-Pin
10	158477	1	• CONTACT, Plug - 6-Pin Wedge
11	117591	4	• TERMINAL, F 16-18AWG NI SLD - Size 16
12	234201	1	• CONNECTOR, Receptacle - 4 Pin (MATE-N-LOK)
13	116990	4	• WIRE PIN, Female (MATE-N-LOCK)
14	234034	1	• CONNECTOR, Receptacle - 6 Pin Minifit
15	234039	4	• TERMINAL, Female (18-24 AWG)
16	138044	3	• FERRULE, Blue (14 GA)

4.19 Base Control Harness - ZAPI B



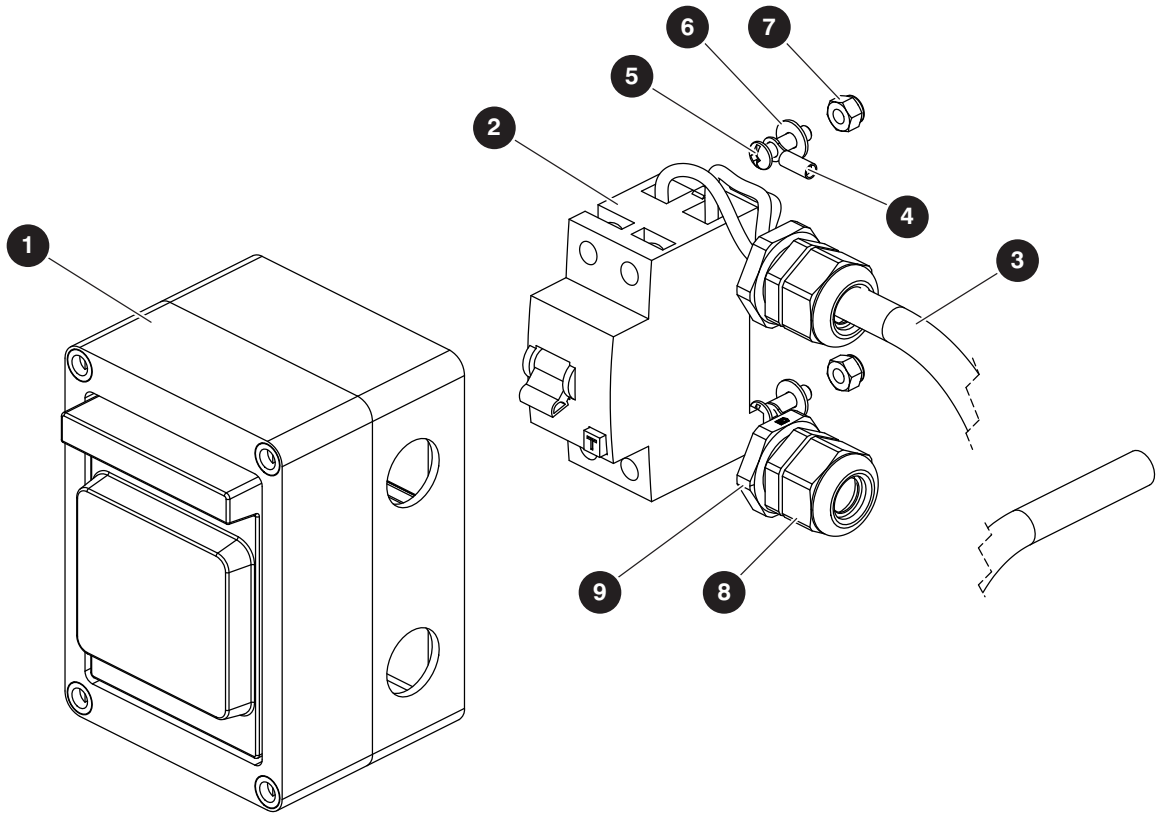
M234200AB

234200

4.19 Base Control Harness - ZAPI B

Index No.	Skyjack Part No.	Qty.	Description
-	234200	1	BASE CONTROL HARNESS - ZAPI B
1	115401	9	• FERRULE, Red/Grey (14 GA)
2	114595	1	• TERMINAL, Female - Red (19-22 AWG)
3	119749	2	• TERMINAL, #6 Ring - Red (22-18 AWG)
4	234227	1	• DIODE, Schottky (10V 3A)
5	117587	1	• CONNECTOR, Plug - 12-Pin
6	117589	1	• CONNECTOR, Plug - 12-Pin Wedge
7	117591	12	• TERMINAL, F 16-18AWG NI SLD - Size 16
8	105568	3	• TERMINAL, Female (10-12 AWG Nylon Yellow)
9	138044	3	• FERRULE, Blue (14 GA)

4.20 RCD Box (CE Only)



M234478AA

234478, 234480

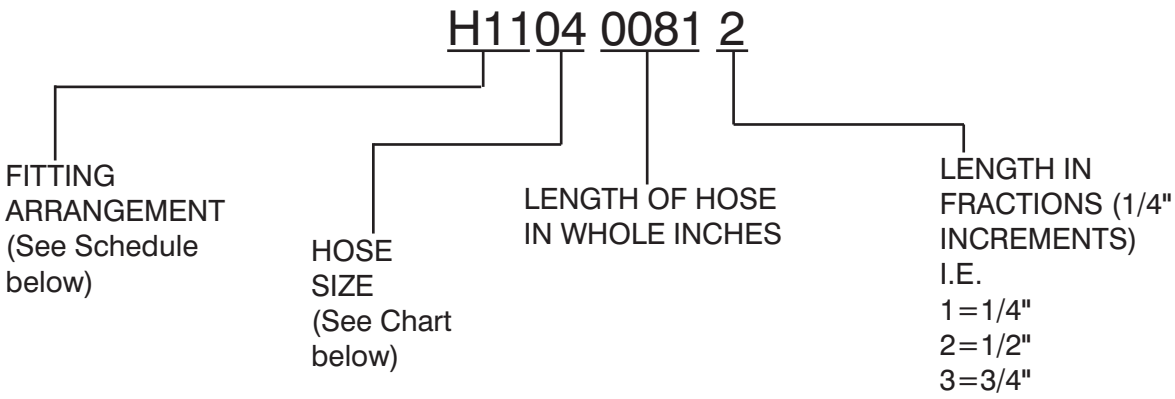
Index No.	Skyjack Part No.	Qty.	Description
A	234478	1	RCD BOX TYPE A
B	234480	1	RCD BOX TYPE B
1	234483	1	• RCD ENCLOSURE
2	168379	1	• RCCB, Type A - Dopeke DFS 2A, ***A***
	157187	1	• RCBO, Type C - Europa 16A, ***B***
3	117542	45"	• CABTIRE, 14/3 Euro
4	216790	2	• TERMINAL, #10 Ring - 14/16 GA Blue
5	104698	2	• SCREW, Round head machine - #10-32 x 3/4"
6	117952	2	• WASHER, Seal - 0.203 ID X 1/2" OD x 0.040"
7	300450	2	• NUT, Nylon Lock - #10-32 Gr. 5
8	120644	2	• STRAIN RELIEF, PG 16 6-14MM
9	120646	2	• NUT, Lock Cable Gland - PG-16

Section 5 – Hose Connections

5.1 *Standard Hose Numbering System*

5.2 *Hydraulic Hoses*

5.1 Standard Hose Numbering System



Using the number above as an example, H1104 0081 2, this hose requires a 37° JIC female swivel fitting on one end, and a medium length 90° JIC female swivel fitting for the other end. The hose must meet or exceed the S.A.E. 100R13 hose specification, and be a total of 81-1/2" long.

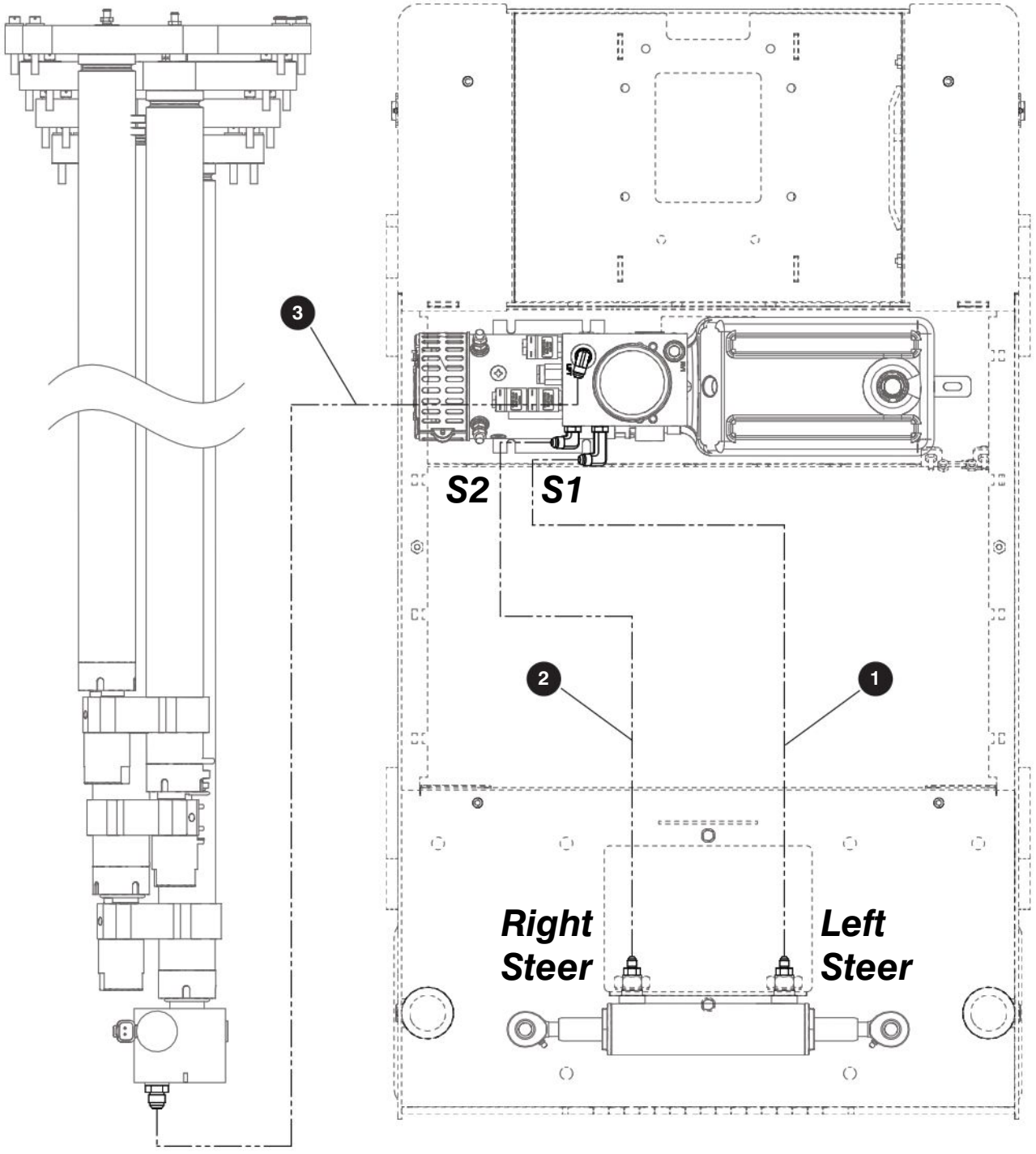
NOTE

Hose ends and hose must be from same manufacturer per S.A.E. J1273 Nov. '91, Sections 3.10 and 4.2. Hose ends and hose must be of the same size i.e. #4 size fittings must be used with #4 size hose.

Hose Size Chart														
Size	03	04	06	08	10	12	16	20	24	32	40	48	56	64
ID	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"

Fitting Arrangement Schedule			
Hose Prefix	**Hose End Fitting**	**Hose End Fitting**	**S.A.E. Hose Specification**
H01	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H02	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R13
H03	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R17
H04	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R13
H05	FEMALE, 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R17
H06	FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R17
H07	LONG 90°, FEMALE, 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R17
H08	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H09	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R4
H10	FEMALE, 37° JIC, SWIVEL	MALE PIPE THREAD FITTING	100R17
H11	FEMALE, 37° JIC, SWIVEL	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	100R13
H12	SHORT 90°, FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R17
H13	FEMALE, 37° JIC, SWIVEL	REUSABLE MALE PIPE THREAD FITTING	300 PSI
H14	REUSABLE MALE PIPE THREAD FITTING	NO FITTING	300 PSI
H15	REUSABLE FEMALE, 37° JIC, SWIVEL	REUSABLE FEMALE, 37° JIC, SWIVEL	300 PSI
H16	NO FITTING	NO FITTING	100R4
H17	NO FITTING	NO FITTING	300 PSI
H18	REUSABLE, FEMALE, 37° JIC, SWIVEL	NO FITTING	300 PSI

Hose Prefix	Hose End Fitting	Hose End Fitting	S.A.E. Hose Specification
H19	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R13
H20	FEMALE, SHORT 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R4
H21	FEMALE, SHORT 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R2AT
H22	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R2AT
H23	FEMALE, LONG 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R2AT
H24	FEMALE, SHORT 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R13
H25	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H30	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H31	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H32	SHORT 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H33	MEDIUM 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H34	SHORT 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H35	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H36	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H37	SHORT 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H38	SHORT 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H39	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H40	SHORT 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H43	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H51	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H52	SHORT 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H53	MEDIUM 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H54	SHORT 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H55	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H56	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H57	SHORT 45°, FEMALE, SAE ORFS, SWIVEL	FEMALE, SAE ORFS, SWIVEL	100R13
H58	FEMALE, SAE ORFS, SWIVEL	FEMALE, SAE ORFS, SWIVEL	100R13
H59	MEDIUM 90°, FEMALE, SAE ORFS, SWIVEL	FEMALE, SAE ORFS, SWIVEL	100R13
H60	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H61	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H62	SHORT 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H63	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H64	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R16
H65	MEDIUM 67°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R12
H66	FEMALE, 37° JIC, SWIVEL	NO FITTING	100R4
H67	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R19
H68	SHORT 45°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R19
H69	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R19
H70	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R19
H71	LONG 90°, FEMALE, SAE ORFS, SWIVEL	FEMALE, SAE ORFS, SWIVEL	100R15



M234628AA

234628

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	-	HOSE GROUP			
1	H360600430	Steer Cylinder	Left	S1	PMU
2	H340600370	Steer Cylinder	Right	S2	PMU
3	H340600270	Lift Cylinder		Lift	PMU

Index No.	Skyjack Part No.	Qty.	Description

Notes

Section 6 – Attachments and Options

6.1 *Tube Caddy*

6.2 *Light Duty Pipe Rack*

6.3 *Tool Tray - SJ12/20 E*

6.4 *Saloon Gate Kit*

6.5 *Half Gate Kit*

6.6 *Full Gate Kit*

6.7 *Dual Flashing Light Kit*

6.8 *EcoTray Kit*

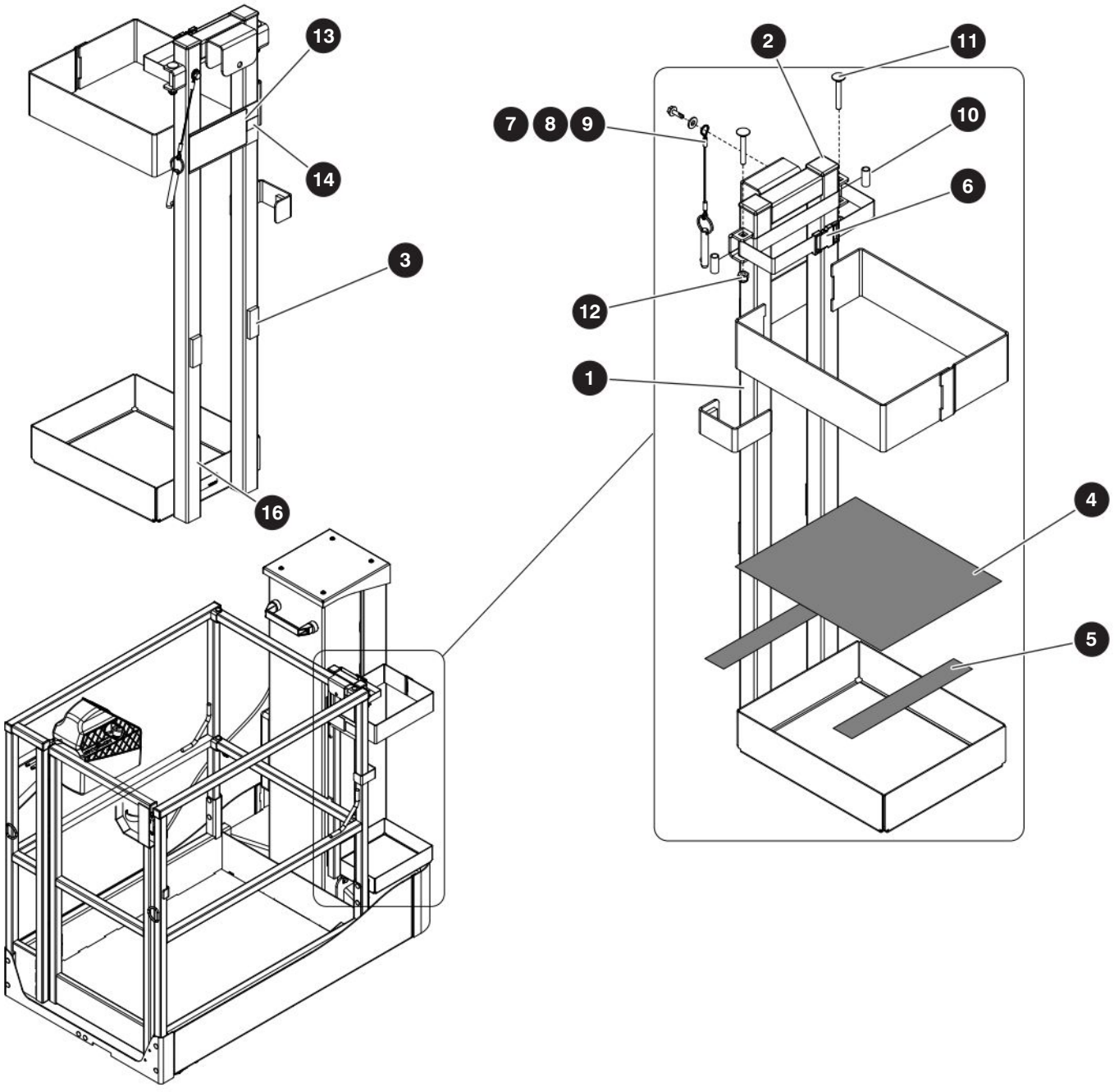
6.10 *Elevate Telematics*

6.11 *Telematics Keypad*

6.12 *Battery Management System*

6.13 *White Noise Alarm*

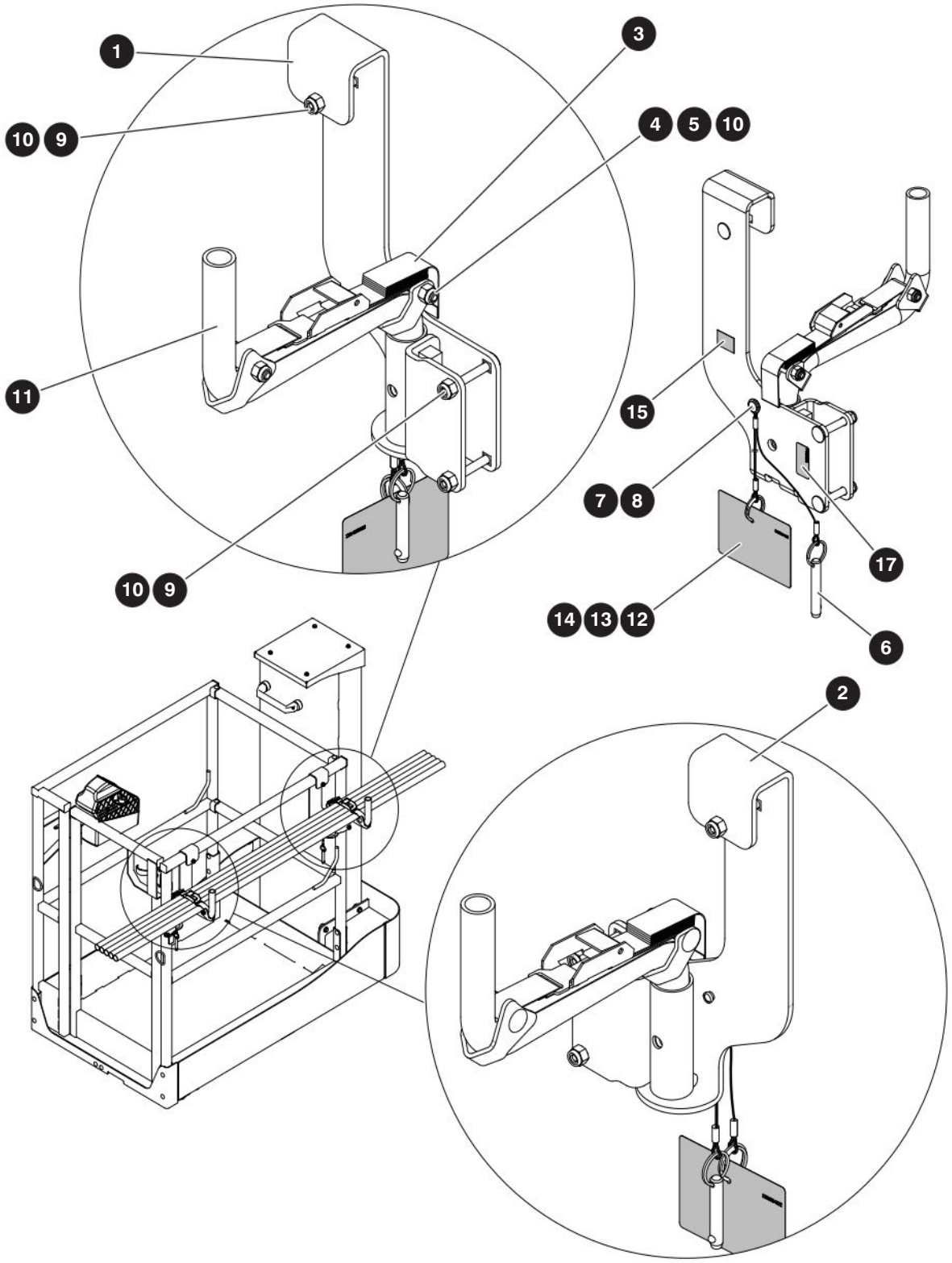
6.1 Tube Caddy



6.1 Tube Caddy

Index No.	Skyjack Part No.	Qty.	Description
-	223575	1	TUBE CADDY KIT
1	158372	1	• TUBE CADDY
2	100702	2	• CAP, End
3	125577	3	• BUMPER, Door
4	158334	1	• SHEET, Rubber (0.125” x 8.5” x 10.25”)
5	158843	16”	• TAPE, Adhesive transfer (3/4”)
6	158358	1	• STRAP, Nylon with buckle
7	216212	1	• PIN, Quick release - Large loop
8	103995	1	• WASHER, Flat (1/4")
9	103632	1	• SCREW, Hex head self tapping (1/4"-14 x 3/4")
10	158381	2	• SPACER, Stand off (5/16 ID x 1" LG)
11	127437	2	• BOLT, Carriage (5/16 -18 x 2 Grade 5)
12	103984	2	• NUT, Hex nylon lock (5/16 -18 Grade 5)
13	216558	1	• LABEL, Tube caddy capacity
14	172428	1	• LABEL, CE mark
15	223582	1	• INSTRUCTION, Tube Caddy (not shown)
16	(Ref.)	1	• LABEL, Accessoryzers template kit number

6.2 Light Duty Pipe Rack



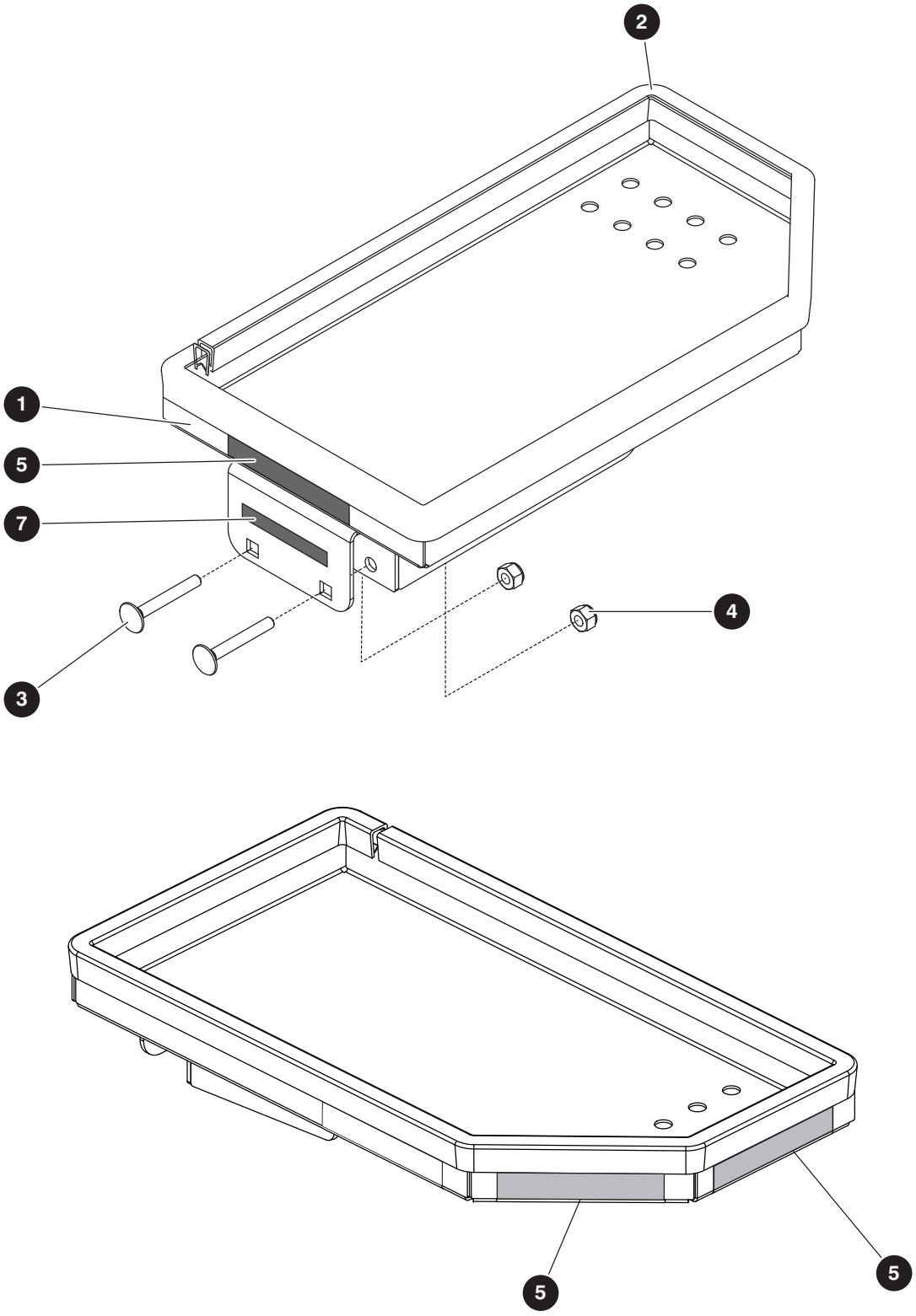
M223586AA

223586

6.2 Light Duty Pipe Rack

Index No.	Skyjack Part No.	Qty.	Description
-	223586	1	PIPE RACK KIT
1	157404	1	• PIPE RACK, Mast side
2	158344	1	• PIPE RACK, Gate side
3	158357	2	• STRAP, Nylon tie down flat hook
4	158381	4	• SPACER, Stand off (5/16" ID x 1" LG)
5	158380	4	• BOLT, Carriage (5/16" - 18 x 1.75" grd5)
6	216212	2	• PIN, Quick release - Large loop
7	103995	2	• WASHER, Flat (1/4")
8	157173	2	• RIVET (1/4"x 0.49")
9	127437	6	• BOLT, Carriage (5/16"-18 x 2", Grade 5)
10	103984	10	• NUT, Hex nylon lock (5/16"-18, Grade 5)
11	157405	2	• TUBE, Pipe rack
12	223585	2	• LABEL, Pipe rack capacity
13	105807	2	• LANYARD, 6”
14	160320	2	• RING, Lanyard
15	172428	2	• LABEL, CE mark
16	223589	1	• INSTRUCTION, Pipe rack installation (not shown)
17	(Ref.)	1	• LABEL, Accessoryzers template kit number

6.3 Tool Tray - SJ12/20 E

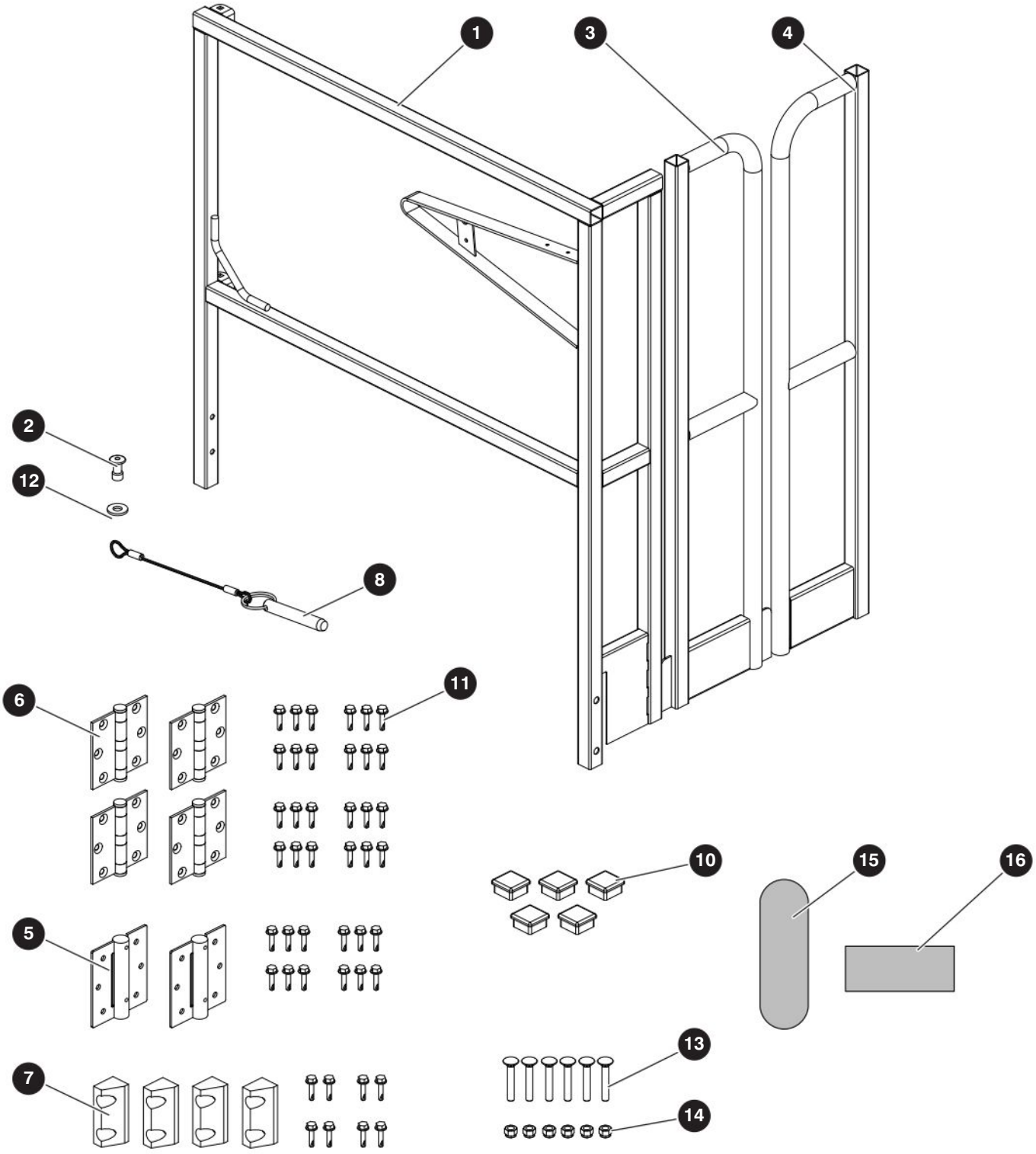


M67029AA_1_M158805AB *223578*

6.3 Tool Tray - SJ12/20 E

Index No.	Skyjack Part No.	Qty.	Description
-	223578	1	TOOL TRAY KIT
1	158371	1	• TRAY, Tool
2	117398	44"	• PROTECTIVE TRIM (3/16"-1/4")
3	127437	2	• BOLT, Carriage (5/16"-18 x 2", Grade 5)
4	103984	2	• NUT, Hex nylon lock (5/16"-18, Grade 5)
5	173039	3	• LABEL, Capacity
6	223584	1	• INSTRUCTION, Tool tray installation (not shown)
7	(Ref.)	1	• LABEL, Accessoryzers template kit number

6.4 Saloon Gate Kit



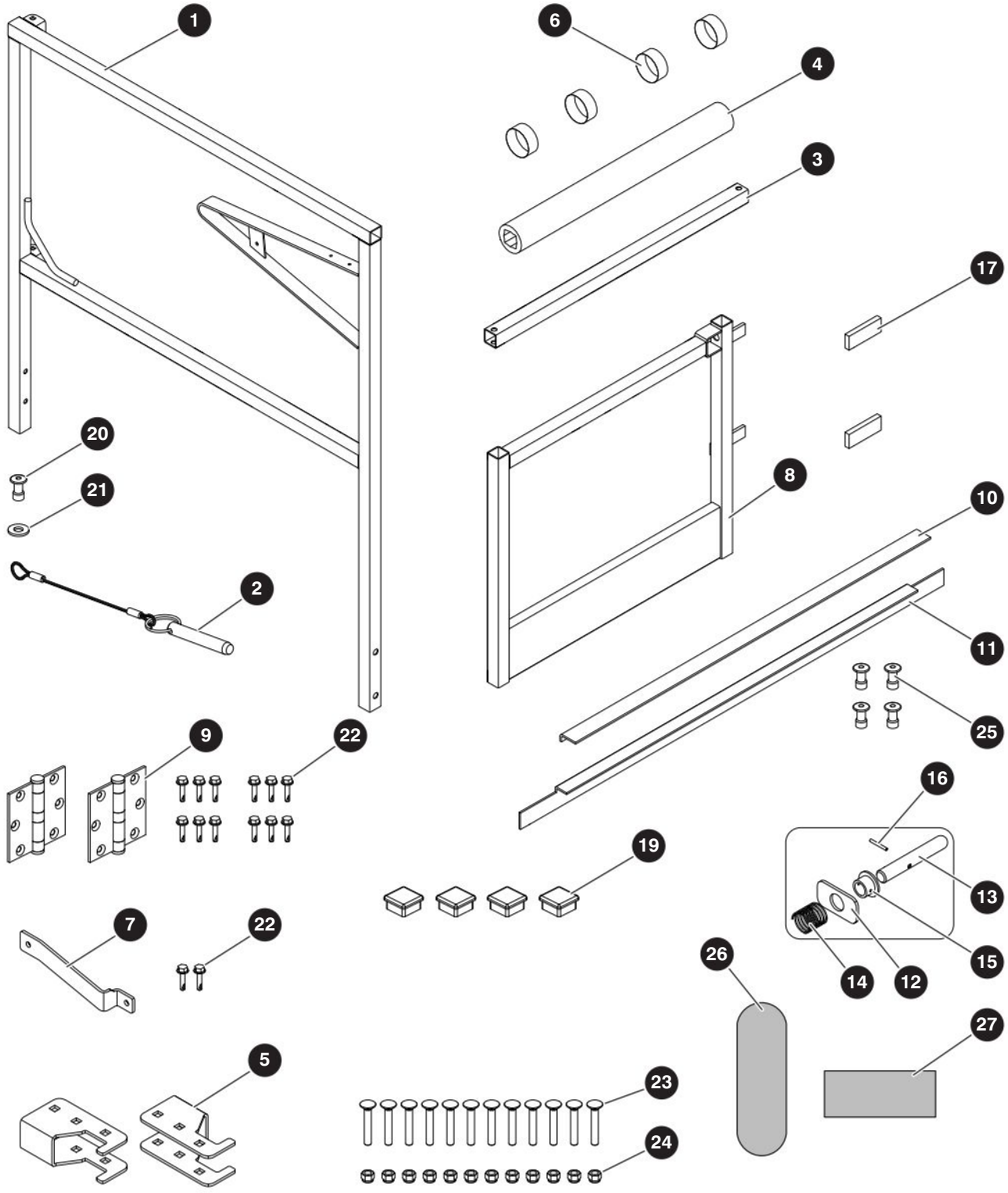
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234359

6.4 Saloon Gate Kit

Index No.	Skyjack Part No.	Qty.	Description
-	234359	1	FIELD KIT, SALOON GATE - VM
1	234769	1	• RAILINGS, Control Box Side - Right Hand
2	157173	1	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
3	158793	1	• GATE, Saloon - Control Box Side
4	158792	1	• GATE, Saloon
5	209527	2	• SPRING HINGE
6	136176	4	• BUTT HINGE
7	158811	4	• GATE STOP, Saloon Gate
8	216212	1	• QUICK RELEASE PIN, Large Loop (3/8" x 1.8")
9	243006	1	• INSTRUCTIONS, Saloon Gate - VM (Not Shown)
10	100702	5	• PLUG, Plastic Tube (1-1/4" X 1-1/4")
11	112329	44	• BOLT, Self-tapping (1/4"-14 x 1")
12	103995	1	• WASHER, Flat (1/4")
13	127437	6	• BOLT, Carriage (5/16"-18 x 2" Gr. 5)
14	103984	6	• NUT, Nylon Lock - 5/16"-18 Gr. 5
15	172646	1	• LABEL, Anchorage Harness
16	172632	1	• LABEL, Control Box Location

6.5 Half Gate Kit



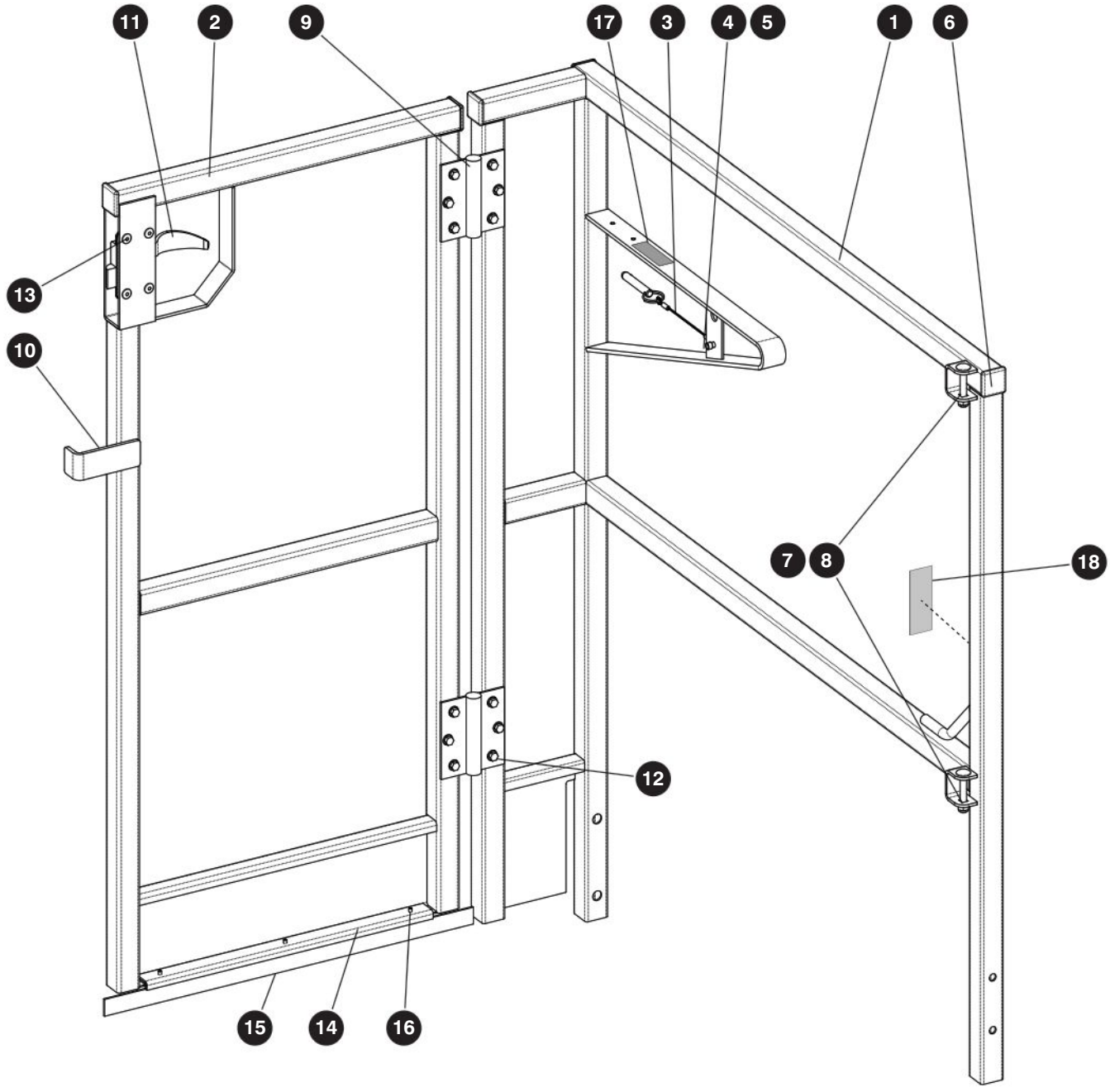
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234361

6.5 Half Gate Kit

Index No.	Skyjack Part No.	Qty.	Description
-	234361	1	HALF GATE FIELD KIT
1	234770	1	• RAILINGS, Right Hand - Control Box Side
2	216212	1	• PIN ASM, 3/8" DIA x 1.8" - Large Loop
3	151478	1	• TUBE, Square (1-1/4" x 0.083" x 26-3/4")
4	125691	1	• PADDING, Entry Rail
5	156486	2	• MOUNT, Top Bar
6	119803ZZ	32"	• TAPE, Caution (1")
7	230100	1	• STRIKER
8	226475	1	• GATE, Half Gate - Lower
9	209527	2	• SPRING HINGE
10	119942	1	• PLATE, Gate Clamp
11	119940	1	• STRIP, Rubber
12	105307	1	• PLATE, Gate Latch Release
13	109377	1	• PIN, Latch
14	103107	1	• SPRING, Compression
15	105312	1	• Latch, Nylon Bed
16	100950	1	• PIN, Roll - 1/8" x 1"
17	103628	4	• RUBBER, Self-Seal
18	243005	1	• INSTRUCTIONS, Half Gate (Not shown)
19	100702	4	• PLUG, Plastic Tube - 1-1/4" X 1-1/4"
20	157173	1	• RIVET, Pop (1/4" x 0.490" AL SM FLG GM HD O-END)
21	103995	1	• WASHER, Flat (1/4")
22	112329	14	• BOLT, Self Tapping - 1/4"-14 x 1"
23	127437	12	• BOLT, Carriage (5/16"-18 x 2" Gr. 5)
24	103984	12	• NUT, Nylon Lock - 5/16"-18 Gr. 5
25	119945	4	• RIVET, Pop (1/8" x 0.390" - AL LG FLG HD O-END)
26	172646	1	• LABEL, Anchorage Harness
27	172632	1	• LABEL, Control Box Location

6.6 Full Gate Kit

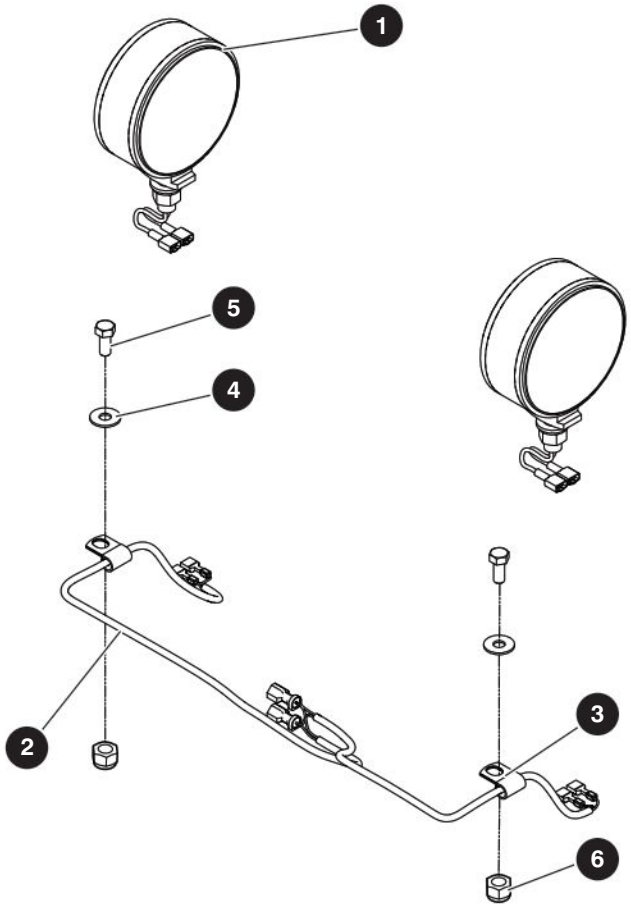


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234363

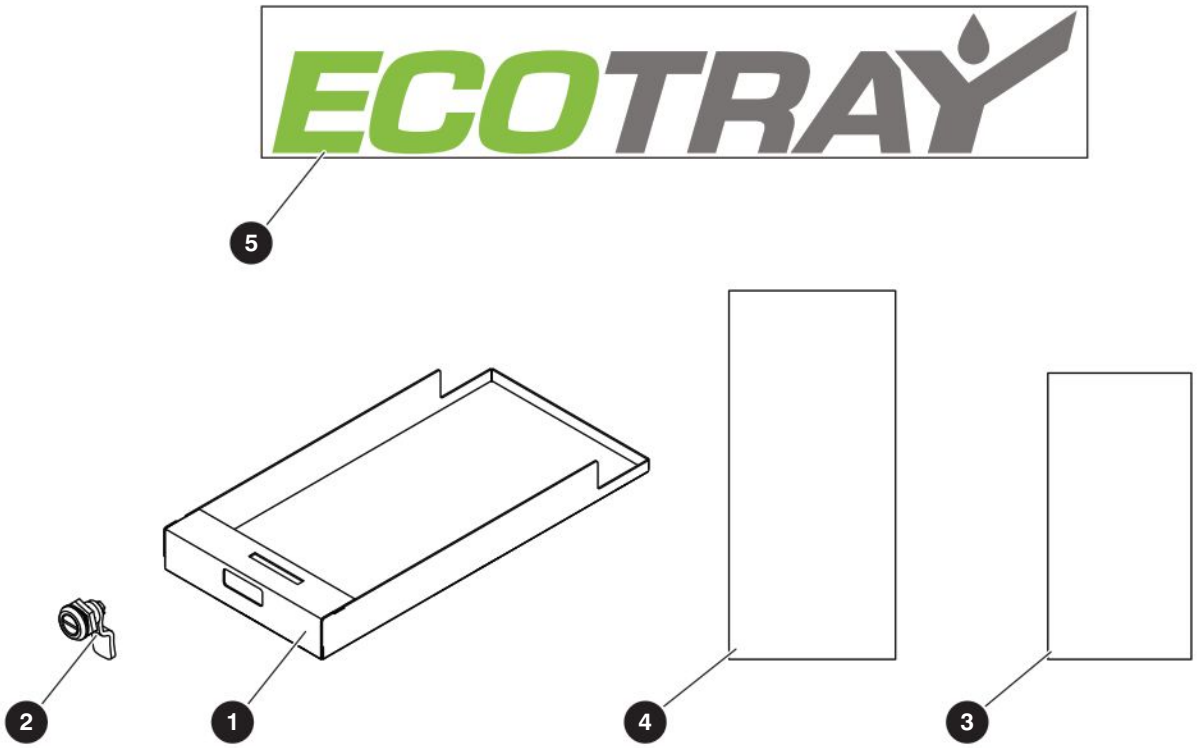
Index No.	Skyjack Part No.	Qty.	Description
-	234363	1	FULL GATE FIELD KIT
-	228861	1	• FULL GATE ASSEMBLY
1	213198	1	• • RAILING, Right hand side
2	156583	1	• • FULL GATE
3	216212	1	• • PIN ASSEMBLY, Large loop
4	157173	1	• • RIVET, Pop (1/4" x 1/2")
5	103995	1	• • WASHER, Flat (1/4")
6	100702	5	• • PLUG, Plastic tube (1-1/4" x 1-1/4")
7	127437	2	• • BOLT, Carriage bolt (5/16" x 18" x 2", grd 5)
8	103984	2	• • NUT, Lock (5/16" x 18", grd 5 - NYL)
9	209527	2	• • HINGE, Spring
10	125577	1	• • BUMPER, Door
11	138695	1	• • CAB LOCK, Gate assembly
12	112329	12	• • BOLT, Self tapp (1/4" x 14" x 1)
13	139641	4	• • RIVET, Pop (1/4" x 5/8")
14	156589	1	• • PLATE, Gate clamp
15	156590	1	• • RUBBER STRIP, Gate
16	119945	3	• • RIVET, POP (1/4" x 3/8")
-	228868	-	• LABEL ASSEMBLY
17	172632	1	• • LABEL, Control box location
18	172646	1	• • LABEL, Harness anchor ANSI/ AS/ KC
	172638	1	• • LABEL, Harness anchor CE
-	228866	-	• MANUAL ASSEMBLY
19	243008	1	• • INSTRUCTION, Full gate installation (not shown)

6.7 Dual Flashing Light Kit



M70110AA 70110

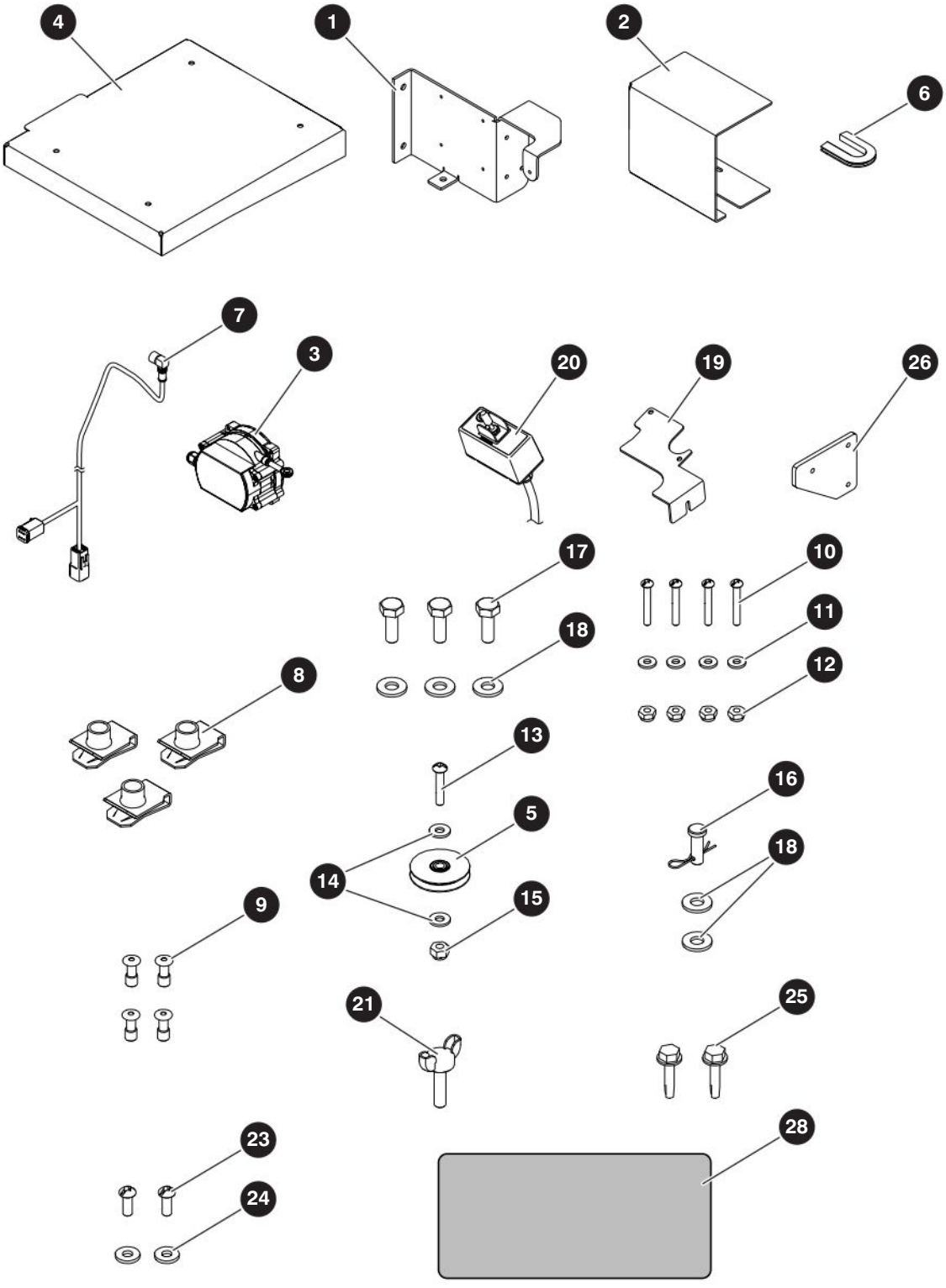
Index No.	Skyjack Part No.	Qty.	Description
-	234368	1	DUAL FLASHING LIGHT FIELD KIT
1	216142	2	• LAMP, LED - Amber
	212730	1	• • LED LAMP
	(Ref.)	1	• • WASHER, Flat
	(Ref.)	1	• • WASHER, Lock
	(Ref.)	1	• • NUT
2	234263	1	• HARNESS, Dual Flashing Light
3	149495	2	• CLAMP
4	166164	2	• WASHER, Flat (0.312")
5	103887	2	• BOLT, Hex head (0.312"-18 x 3/4" Gr. 5)
6	103984	2	• NUT, Lock (0.313"-18)
7	102892	5	• CABLE, Tiewrap (Not shown)
8	243009	1	• INSTRUCTIONS, FLASHING LIGHTS - VME (Not shown)



M234673AA 234673

Index No.	Skyjack Part No.	Qty.	Description
-	234673	1	ECOTRAY FIELD KIT
1	234528	1	• PLATE, EcoTray
2	138715	1	• LATCH, Slotted Door
3	234598	1	• PAD, Absorbent (5.25" x 11")
4	234599	1	• PAD, Absorbent (8" x 16-1/2")
5	173875	1	• LABEL, EcoTray
6	238881	1	• INSTRUCTIONS, EcoTray (Not shown)

6.9 Wind Rating Option



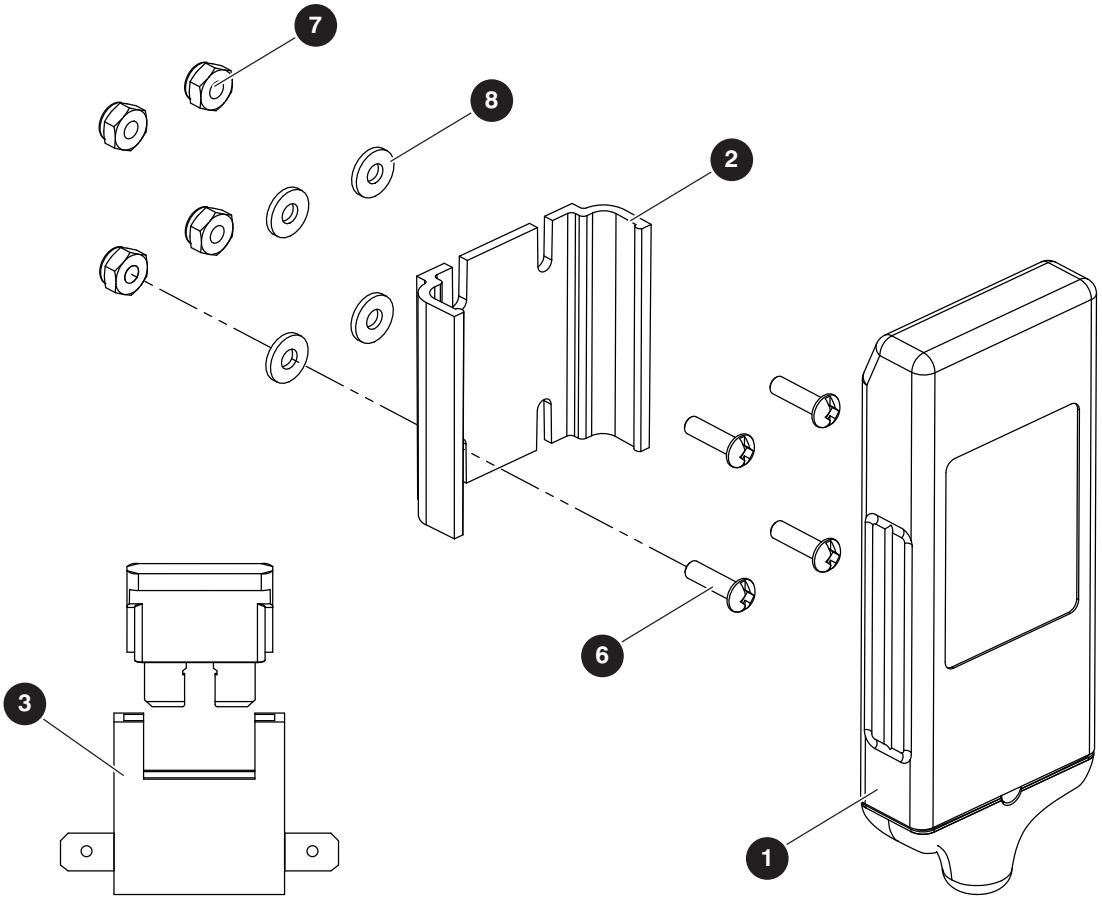
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234695

6.9 Wind Rating Option

Index No.	Skyjack Part No.	Qty.	Description
A	234369	1	WIND RATING OPTION FIELD KIT - SJ16 E
B	234695	1	WIND RATING OPTION FIELD KIT - SJ20 E
1	234635	1	• BRACKET, String potentiometer mount
2	234636	1	• COVER, String potentiometer
3	234625	1	• STRING POT, 6.0M
4	234624	1	• COVER, Mast - Wind rating option
5	234259	1	• PULLEY (1-1/16" x 3/16" ID x 1-1/4" OD)
6	117398	5	• PROTECTIVE TRIM (3/16"-1/4")
7	234266	1	• CABLE, Wind rating option
8	149496	3	• NUT, Speed clip (1/4"-20 x 1/2" OL)
9	157759	4	• POP RIVET (3/16" X 0.565" STL SM FLG DM HD O-END)
10	103956	4	• SCREW, Round head machine (#6-32 x 1")
11	191833	4	• WASHER, Flat (#6)
12	196306	4	• NUT, Nylon lock (#6-32 Gr. 5)
13	126499	1	• SCREW, Round head machine (#8-32 x 7/8")
14	103991	2	• WASHER, Flat (#8)
15	138765	1	• NUT, Nylon lock (#8-32 Gr. 5 Zinc)
16	234629	1	• CLEVIS PIN, With cotter pin (1/4" x 9/16")
17	103856	3	• BOLT, Hex Head Zinc (1/4"-20 x 3/4" Gr. 5)
18	103995	5	• WASHER, Flat (1/4")
19	228887	1	• BRACKET, Wind rating option
20	234280	1	• WIND RATING SWITCH
21	207242	1	• SCREW, Wing (1/4"-20 x 1")
22	115649	1	• NUT, Nylon Lock (1/4"-20 Gr. 5)
23	103960	2	• SCREW, Round head machine (#10-24 x 1/2")
24	104694	2	• WASHER, Flat - #10
25	112329	2	• BOLT, Self Tapping (1/4"-14 x 1")
26	228886	1	• MOUNT, Wind Rating switch
27	234697	1	• INSTRUCTIONS, Wind Rating option (Not shown)
28	174164	2	• LABEL, Capacity 227 kg (500 lb), ***A***
-	173849	2	• LABEL, Capacity 159 kg (350 lb), ***B***

6.10 Elevate Telematics

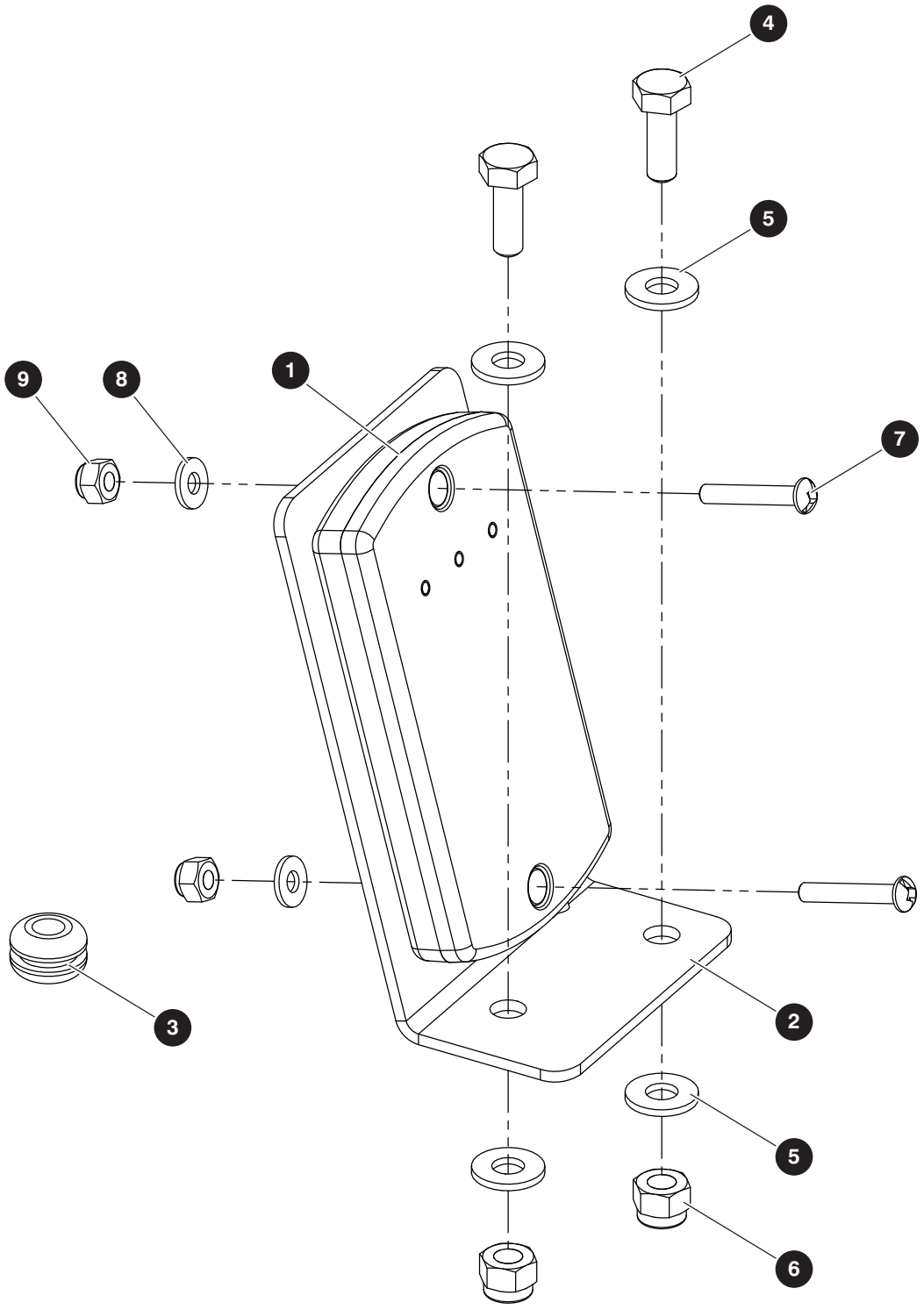


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6.10 Elevate Telematics

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	ELEVATE TELEMATICS
1	213098	1	• TELEMATICS TRACK UNIT
2	199296	1	• • BRACKET
3	199299	1	• • FUSE KIT, 1 Amp Fuse and Holder
4	234262	1	• HARNESS, Trackunit VM
5	220577	1	• WIRE ASSEMBLY, B+
6	114678	4	• SCREW, Round head machine (#6-32 X 1/2")
7	196306	4	• NUT, Nylon lock (#6-32 Gr. 5)
8	191833	4	• WASHER, Flat (#6)

6.11 Telematics Keypad

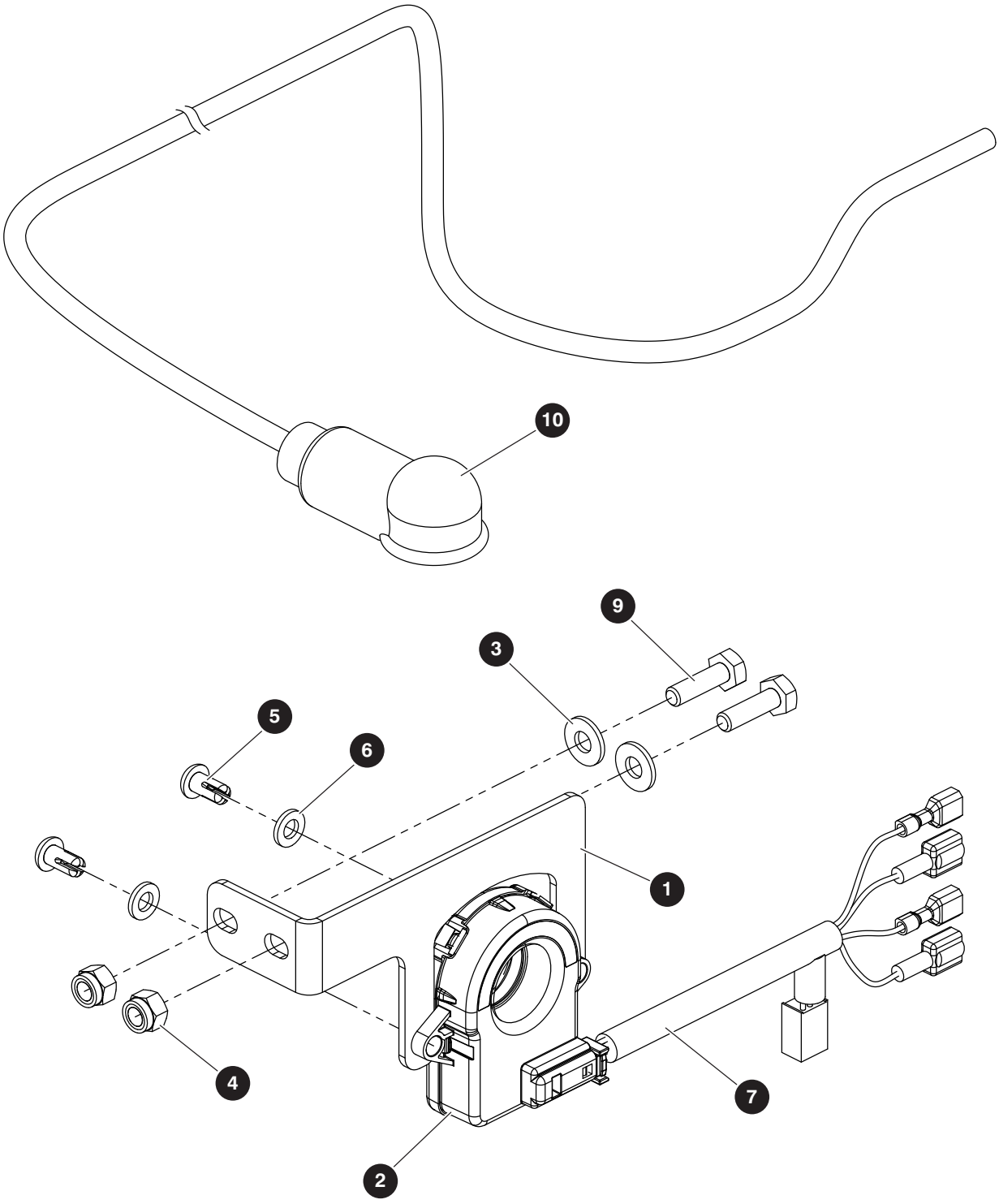


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6.11 Telematics Keypad

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	TELEMATICS KEYPAD
1	221998	1	• BRACKET, Telematics keypad
2	213099	1	• KEYPAD, Telematics - Dual ID
3	208897	1	• GROMMET, Rubber (0.66" OD x 0.28" ID x 0.42")
4	103856	2	• BOLT, Hex head zinc (1/4"-20 x 3/4" Gr. 5)
5	103995	4	• WASHER, Flat (1/4")
6	115649	2	• NUT, Nylon lock (1/4"-20 Gr. 5)
7	112248	2	• SCREW, Round head machined (#8-32 x 1")
8	103991	2	• WASHER, Flat (#8)
9	138765	2	• NUT, Nylon lock zinc (#8-32 Gr. 5)

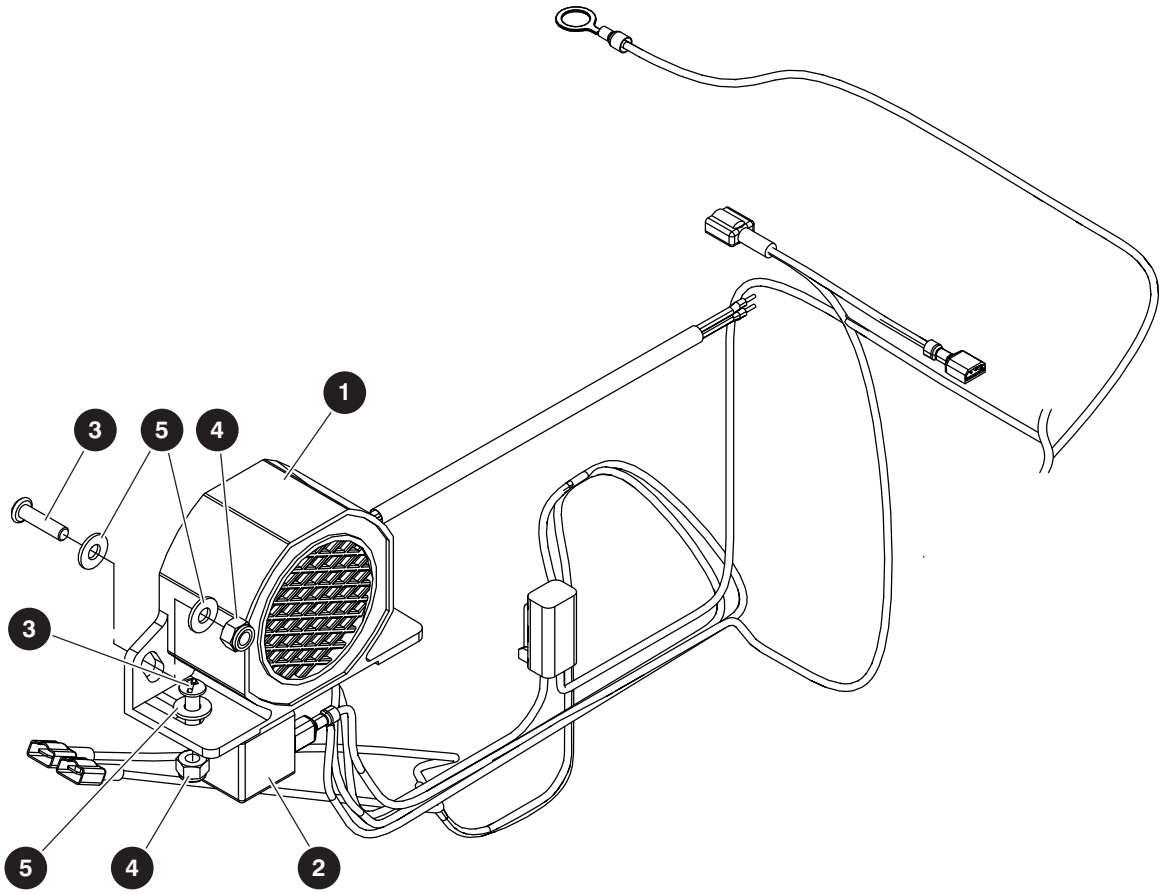
6.12 Battery Management System



M234671AE

Index No.	Skyjack Part No.	Qty.	Description
-	-	1	ELEVATE BMS
1	240007	1	• BRACKET, BMS
2	228573	1	• SENSOR, Current - 500A
3	103995	1	• WASHER, Flat (1/4")
4	115649	1	• NUT, Nylon lock (1/4"-20 Gr. 5)
5	231923	1	• RIVET, Plastic (1/4" x 1/4" - 3/8")
6	133219	1	• WASHER, Flat (M6 DIN 125)
7	230102	1	• HARNESS, BMS
8	226371	1	• SENSOR, Temperature
9	103891	1	• BOLT, Hex head (1/4"-20 x 7/8" Gr. 5)
10	139105	1	• BOOT, Terminal - #2/0 Red (5737-005R)

6.13 White Noise Alarm



M234461AA 234461

Index No.	Skyjack Part No.	Qty.	Description
-	234461	1	WHITE NOISE ALARM
1	239803	1	• ALARM, White noise
2	234350	1	• HARNESS ASM, White noise
3	138834	3	• SCREW, Round head machine - #10-24 x 3/4"
4	126642	3	• NUT, Nylon lock - #10-24 Gr. 5
5	104694	5	• WASHER, Flat - #10

Section 7 – Labels

7.1 *Label Kits*

7.2 *Labels - Rear View*

7.3 *Labels - Sides*

7.4 *Labels - Front*

7.5 *Labels - Platform Control*

7.5 *Labels - Miscellaneous*

7.1 Label Kits

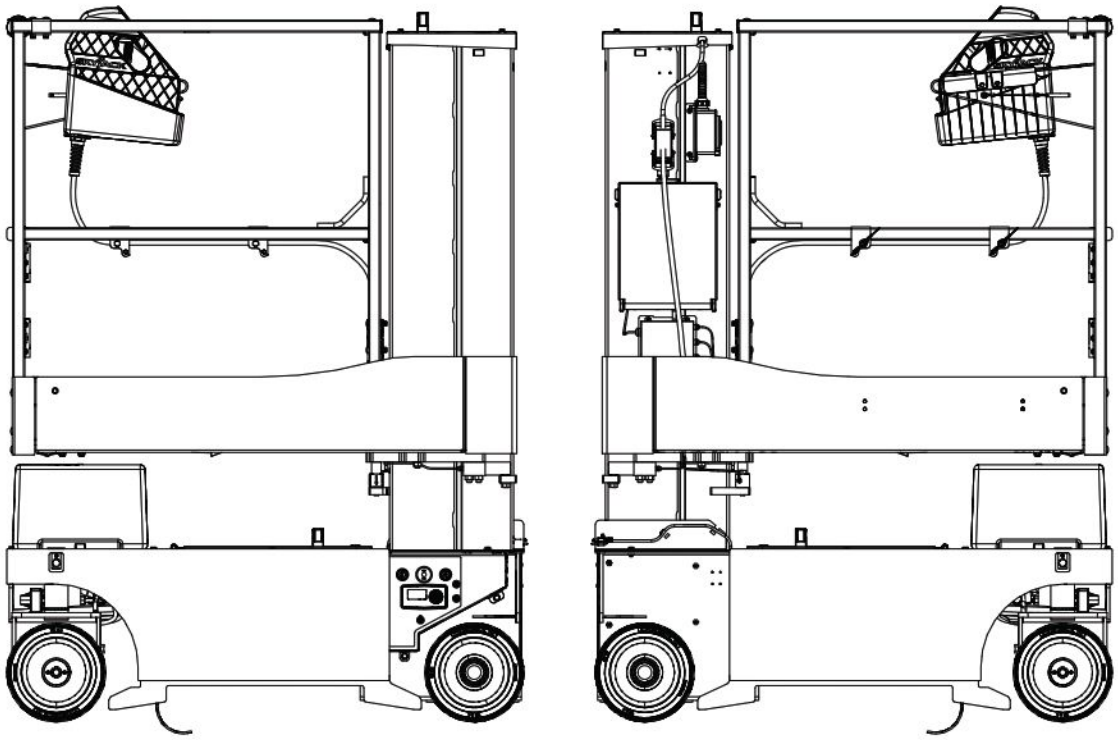
The following label kits contain all of the labels required for a complete standard machine, with the exception of:

- ***Serial number plates***
- ***Region specific labels***

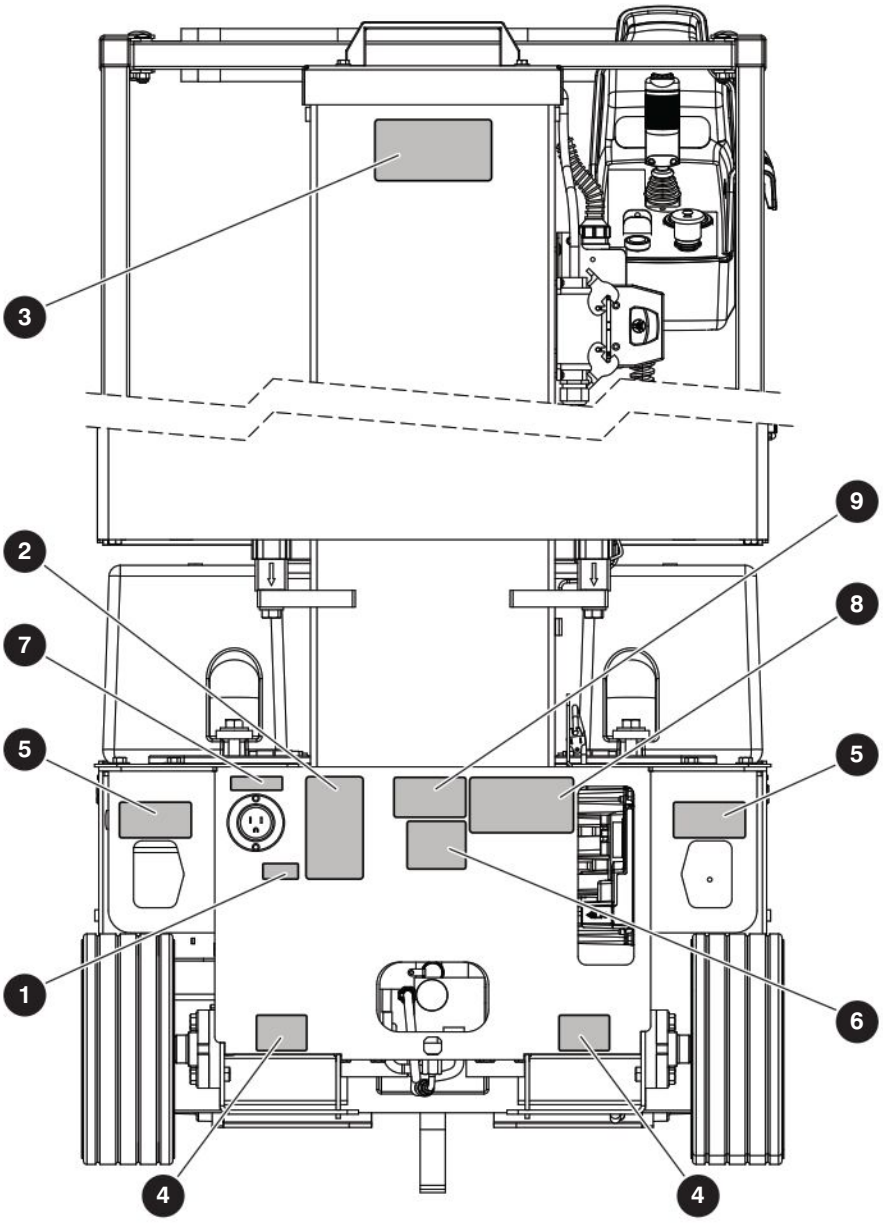
Contact Skyjack Parts to order those labels individually.

Supply the model number, country and language when ordering label kits.

Index No.	Skyjack Part No.	Qty.	Description
1	243321	1	LABEL KIT, SJ12 E ANSI/CSA, AS
2	243322	1	LABEL KIT, SJ12 E CE
3	243323	1	LABEL KIT, SJ16 E ANSI/CSA, AS
4	243324	1	LABEL KIT, SJ16 E CE
5	243325	1	LABEL KIT, SJ20 E ANSI/CSA



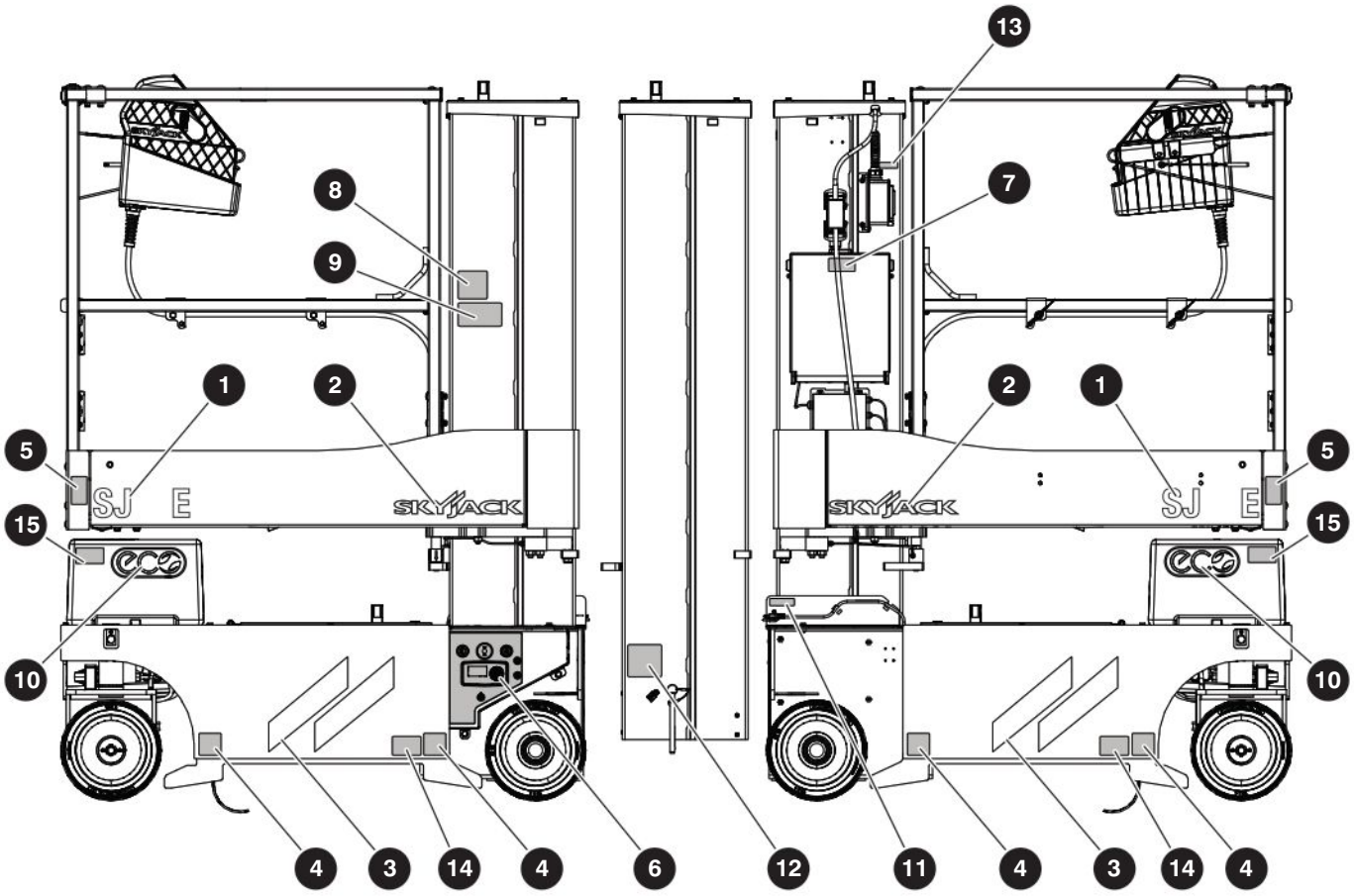
M69529AA



M174012AB_Rear 174012

Index No.	Skyjack Part No.	Qty.	Description
1	(Ref.)	1	• LABEL, Manufactured month/year (Contact Skyjack)
2	(Ref.)	1	• LABEL, Serial nameplate (Contact Skyjack)
3	(Ref.)	1	• LABEL, QR code (Contact Skyjack)
4	102896	2	• LABEL, Forklift boot
5	124767	2	• LABEL, Lift point/Tie down
6	172939	1	• LABEL, Emergency lowering information
7	138211	1	• LABEL, Connect AC supply
8	173237	1	• LABEL, Emergency lowering instruction
9	137988	1	• LABEL, Warning crush/pinch hazard

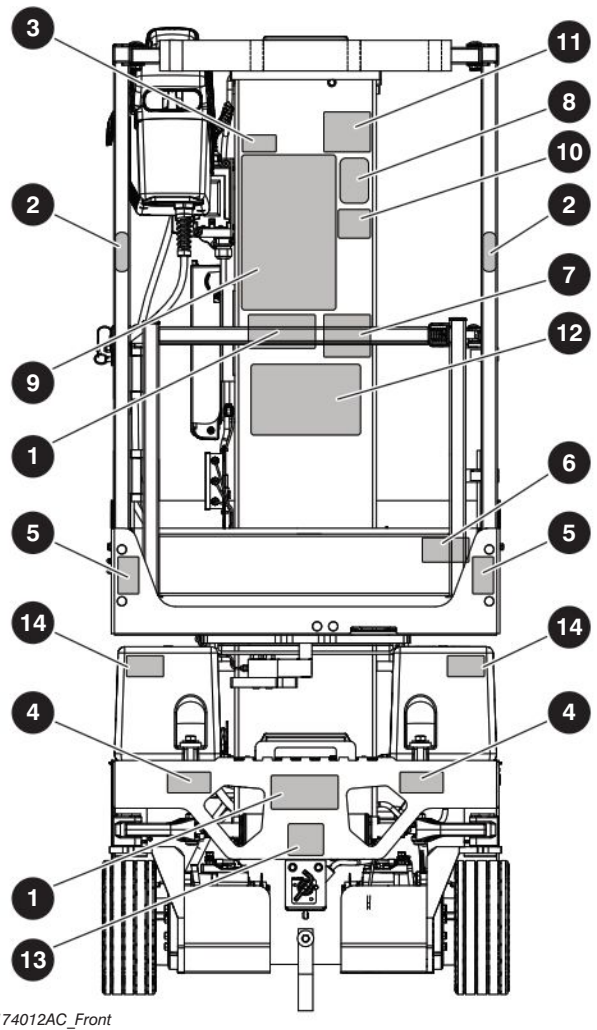
7.3 Labels - Sides



M174012AC_Sides 174012

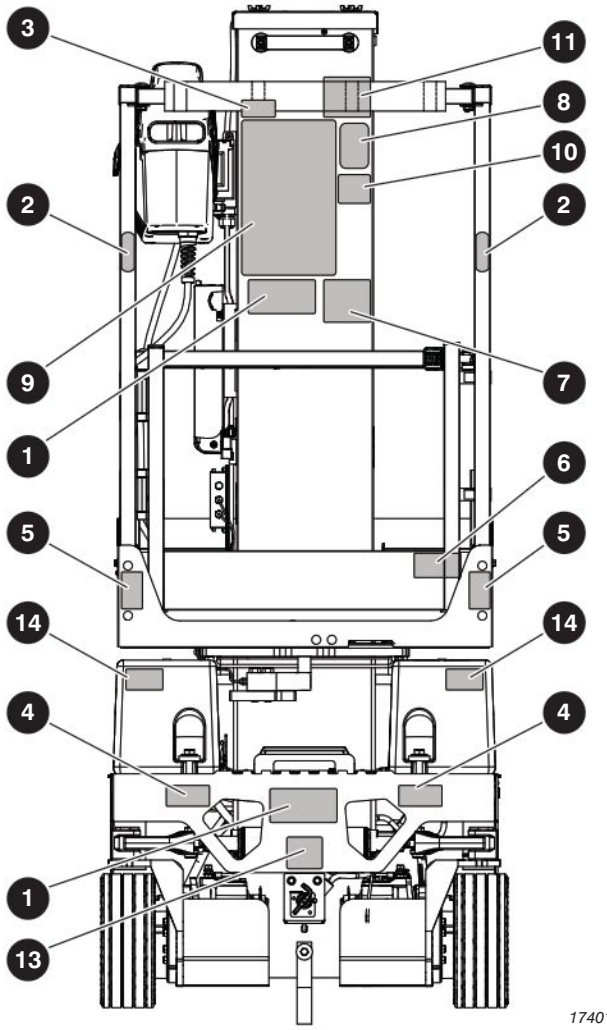
Index No.	Skyjack Part No.	Qty.	Description
1	173972	2	• LABEL, SJ12 E
	173973	2	• LABEL, SJ16 E
	173979	2	• LABEL, SJ20 E
2	163860	2	• LABEL, Skyjack logo white (13")
3	230750	2	• LABEL, Talon mark (8")
4	174051	4	• LABEL, Wheel load 449 kg/ 990 lb **(SJ12 E)**
	171557	4	• LABEL, Wheel load 510 kg/ 1125 lb **(SJ16 E)**
	230754	4	• LABEL, Wheel load 426 kg/ 940 lb **(SJ20 E)**
5	223639	2	• LABEL, Warning crush/pinch hazard
6	230744	1	• LABEL, Base control
7	123628	1	• LABEL, Manual box
8	172695	1	• LABEL, Warning annual inspection
9	172656	1	• LABEL, Annual inspection pictorial
10	174007	2	• LABEL, ECO logo (2-1/2" high)
11	173960	1	• LABEL, Battery charge connection
12	174052	1	• LABEL, Service pin location
13	138211	1	• LABEL, Connect AC supply
14	117023	1	• LABEL, CE Mark **(CE only)**
15	137988	2	• LABEL, Warning crush/pinch hazard

SJ12/16E



M174012AC_Front

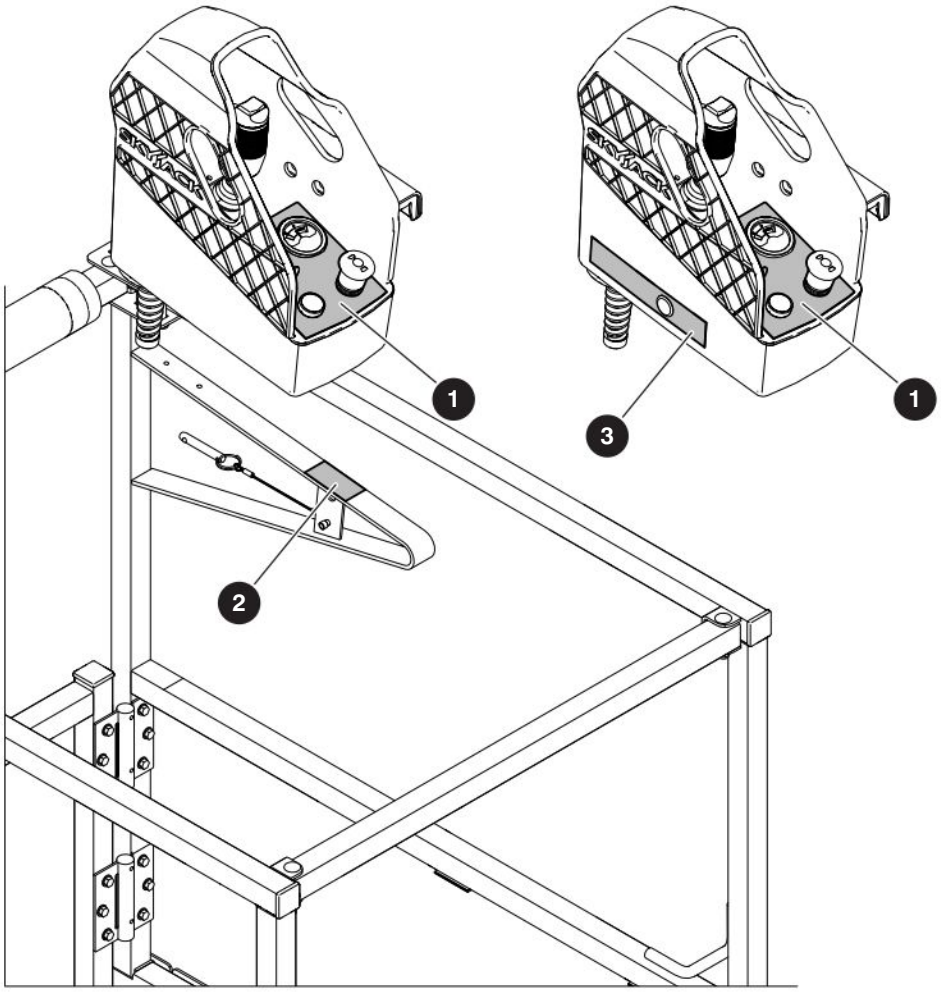
SJ20E



174012

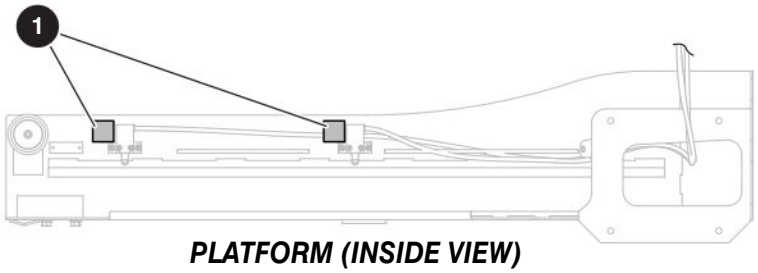
Index No.	Skyjack Part No.	Qty.	Description
1	173257	2	• LABEL, Platform capacity 227 kg/500 lb 2P/1P indoor/outdoor **(SJ12 E)**
	173260	2	• LABEL, Platform capacity 227 kg/500 lb 1P indoor **(SJ16 E)**
	230751	2	• LABEL, Platform capacity 159 kg/350 lb 1P indoor **(SJ20 E)**
2	172646	2	• LABEL, Harness anchorage **(ANSI/CSA, AS)**
	172638	2	• LABEL, Harness anchorage **(CE)**
3	173081	1	• LABEL, Warning california proposition 65 **(ANSI/CSA)**
4	124767	2	• LABEL, Lift point/tie down
5	223639	2	• LABEL, Warning crush/pinch hazard
6	157012	1	• LABEL, Traverse
7	172693	1	• LABEL, Non-insulated
8	156436	1	• LABEL, Daily check pictorial
9	173235	1	• LABEL, Warning hazard
10	124362	1	• LABEL, Warning do not wear jewelry
11	172804	1	• LABEL, Mast inspection
12	161631	1	• LABEL, Clearance non insulated mobile plant **(AS)**
13	119674	1	• LABEL, Battery disconnect switch
14	137988	2	• LABEL, Warning crush/pinch hazard

7.5 Labels - Platform Control

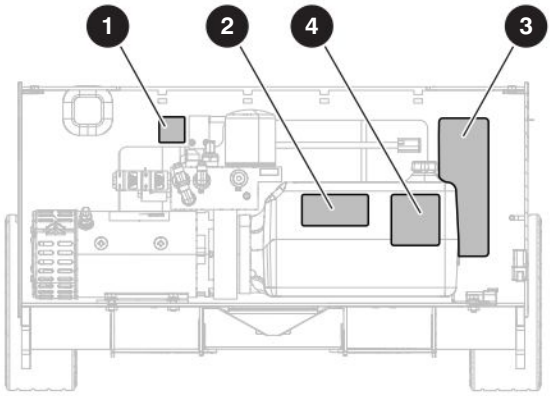


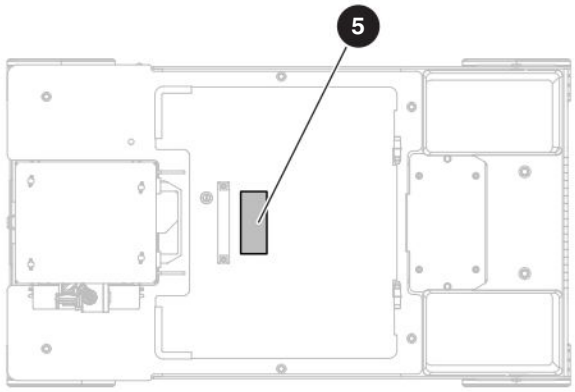
M230761AA_PlatformControls *230761*

Index No.	Skyjack Part No.	Qty.	Description
1	230746	1	• LABEL, Platform controls - VME
2	172632	1	• LABEL, Control box location
3	172788	1	• LABEL, SGLE Enable



PLATFORM (INSIDE VIEW)





M174012AB_Misc *174012*

Index No.	Skyjack Part No.	Qty.	Description
1	156613	3	• LABEL, Do not alter limit switches
2	173880	1	• LABEL, Hydraulic oil level (Min/Max)
3	156612	1	• LABEL, Maintenance switch
4	102961	1	• LABEL, ATF Dexron III
5	174053	1	• LABEL, Do not open with platform elevated

Notes

SKYJACK

www.skyjack.com